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16. Abstract The Non-Traffic Surveillance (NTS) system is a virtual data collection system of which one part is designed to gather data on fatalities and injuries that occur in nontraffic crashes, which can occur on private roads, driveways, and parking lots. The NTS program accepted potential crashes only from FARS analysts and from sampled Crash Report Sampling System (CRSS) and Crash Investigation Sampling System (CISS) police jurisdictions. The primary source documents from CRSS and CISS were limited to those completed by law enforcement. Cases originating from FARS could be from any notification source, including Internet articles and Death Certificates. This is the NTS System Coding and Validation Manual for the period 2019.			
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Introduction

The Non-Traffic Surveillance (NTS) system is a virtual data collection system designed to provide counts and details regarding fatalities and injuries that occur in non-traffic crashes and in non-crash incidents. NTS non-traffic crash data is obtained through NHTSA's Crash Report Investigation System (CISS), Crash Report Sampling System (CRSS) and the Fatality Analysis Reporting System (FARS). NTS non-crash injury data is based upon emergency department records from a special study conducted by the Consumer Product Safety Commission's National Electronic Injury Surveillance System (NEISS) All Injury Program. NTS non-crash fatality data is derived from death certificate information from the Centers for Disease Control's National Vital Statistics System.

Crash Exclusions

- Cases in which the fatality was attributed to natural causes or a medical condition
- Cases where the crash takes place on a racetrack while racing
- If the case came from FARS and the fatality occurred more than 30 days after the crash
- Cases in which the fatality or injury was due to deliberate intent such as homicide, suicide, and legal intervention or was due to a cataclysmic event
- Cases in which there was no fatality or injury
- Cases in which there was no motor vehicle in-transport
 - In-transport means in motion off a trafficway.
- Cases in which the only vehicles involved were not designed primarily for road use
 - Common examples of these types of excluded vehicles are ATVs, dirt bikes, golf carts, snowmobiles, go-carts, forklifts, motorized wheelchairs, farm equipment, and construction equipment (other than trucks).

Source of Data

In any of the references in this manual to police crash report, the NTS requirements for data sources as listed in the following are met. The NTS program accepts potential crashes only from FARS analysts and from CRSS and CISS. The sampled police jurisdictions in both new systems (CRSS and CISS) are a source of data for NTS. The primary source documents from CRSS and CISS are limited to those completed by law enforcement. Cases originating from FARS can be from any notification source, including Internet articles and Death Certificates. If the FARS information is NOT from a police crash or incident report, but from newspaper articles, emails, or other documents then the information below must be present.

- Date of crash
- Driver age, sex, and injury
- If non-motorist involved: age, sex, injury
- Motor vehicle body type or make/model
- Crash description including location

Crash Versus Accident

NHTSA has adopted the policy to use the term crash instead of accident.

*The American National Standard Institute (ANSI) D16.1 – The Manual on Classification of Motor Vehicle Traffic Crashes, 8th Edition (2017)*¹ has also adopted the use of the term “crash” instead of “accident.”

The use of the term “crash” instead of “accident” in the 8th edition of ANSI D16.1 is not a change in the classification other than the term.

Incidents or scenarios involving collision events and those involving non-collision events, as defined in ANSI D16.1, are both still included in the term “crash.”

Collision events include those involving a motor vehicle and fixed objects (poles, walls, buildings, barriers, bridge supports, etc.) and those involving a motor vehicle and non-fixed objects (pedestrians, animals, pedalcyclists, other motor vehicles, etc.).

Besides scenarios involving a collision, a crash also shall include non-collision scenarios such as the following:

- An occupant of a motor vehicle is injured by falling from that vehicle while it is in motion,
- An occupant of a motor vehicle is injured by shifting cargo or flying objects within that vehicle during emergency handling/braking,
- A vehicle suffers damage from a pavement irregularity (loose plate, high manhole, pothole, etc.),
- And others.

Consult the ANSI Manual for a more precise and complete presentation of these concepts. As a minimum, the following ANSI D16.1 terms should be well understood. The paragraph reference numbers from the ANSI Manual are provided to aid look-up.

- 2.2.1 Trafficway
- 2.4.1 Harmful Event
- 2.4.2 Deliberate Intent
- 2.4.3 Legal Intervention
- 2.4.4 Unstabilized Situation
- 2.4.5 Cataclysm
- 2.4.6 Crash (formerly Accident)
- 2.4.9 Transport Crash
- 2.4.12 Motor Vehicle Crash
- 2.4.17 Road Vehicle Crash
- 2.4.18 Traffic Crash
- 2.4.19 Non-Traffic Crash
- 2.4.22 Motor Vehicle Traffic Crash

¹ www.transportation.gov/sites/dot.gov/files/docs/resources/government/traffic-records/304331/ansid16-2017.pdf

2019 NTS Manual Changes Summary

Below is a list of elements that have substantial changes for 2019. These changes, as well as others, are highlighted throughout the manual by *bold/italic* type.

IT IS RECOMMENDED THAT YOU REVIEW THE ENTIRE MANUAL FOR ALL CHANGES.

Intro Changes

SECTION	SECTION NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
--	Crash Versus Accident		X	<ul style="list-style-type: none"> Revised Remarks

Crash Level Changes

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
C9	Crash Time		X	<ul style="list-style-type: none"> Revised Remarks on coding “Midnight”
C18	Crash Events	X	X	<ul style="list-style-type: none"> Revised Attribute Label, AOI: 19 (Other Objects <i>or Person</i> Set-In-Motion) New Attribute, SOE: 98 (<i>Harmful Event, Details Not Reported</i>)
C19	First Harmful Event	X	X	<ul style="list-style-type: none"> Revised Remarks: 07 (Other Non-Collision) Revised Remarks: 45 (Working Motor Vehicle) Revised Remarks: 59 (Traffic Sign Support) New Attribute and Remarks: 98 (<i>Harmful Event, Details Not Reported</i>)
C20	Manner of Collision	X	X	<ul style="list-style-type: none"> Revised Data Element Name: Manner of Collision <i>of the First Harmful Event</i>

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
				<ul style="list-style-type: none"> Revised Attribute Label: 00 (<i>The First Harmful Event was Not a Collision with a Motor Vehicle in-transport</i>)

Vehicle Level Changes

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
V5	Unit Type		X	<ul style="list-style-type: none"> Revised Remarks: 3 (Motor Vehicle Not In- Transport Outside the Trafficway) Revised Remarks: 4 (Working Motor Vehicle)
V6	Hit-and-Run		X	<ul style="list-style-type: none"> Revised Remarks: 1 (Yes)
V29	Areas of Impact – Initial Contact Point	X	X	<ul style="list-style-type: none"> Revised Remarks for Set-in-Motion Attributes Revised Attribute Label: 19 (Other Objects <i>or Person</i> Set-in-Motion)
V30	Extent of Damage		X	<ul style="list-style-type: none"> Revised General Remarks
V32	Sequence of Events	X	X	<ul style="list-style-type: none"> Revised Remarks: <ul style="list-style-type: none"> 07 (Other Non-Collision) 45 (Working Motor Vehicle) 50 (Bridge Overhead Structure) 54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In- Transport) 59 (Traffic Sign Support) 73 (Object That Had Fallen from Motor Vehicle In-Transport)

2019 NTS Manual Changes Summary

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
				<ul style="list-style-type: none"> • New Attribute and Remarks: 98 (Harmful Event, Details Not Reported)
V33	Most Harmful Event	X	X	<ul style="list-style-type: none"> • Revised Remarks: <ul style="list-style-type: none"> ○ 07 (Other Non-Collision) ○ 45 (Working Motor Vehicle) ○ 50 (Bridge Overhead Structure) ○ 59 (Traffic Sign Support) ○ 73 (Object That Had Fallen from Motor Vehicle In-Transport) • New Attribute and Remarks: 98 (Harmful Event, Details Not Reported)

Driver Level Changes

NONE

Preocrash Level Changes

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
PC16	Driver Distracted By	X	X	<ul style="list-style-type: none"> • Revised Definition • Analytical Note Removed • Revised Attribute Label and Remarks: 05 (While Talking or Listening to Mobile Phone) • Revised Attribute Label and Remarks: 06 (While Manipulating Mobile Phone) • Revised Attribute Label and Remarks: 15 (Other Mobile Phone Related) • Revised Remarks: 10 (While Using or Reaching for

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
				Device/Object Brought into Vehicle) • Revised Remarks: 14 (Smoking Related) • Revised Format, Attribute Label, and Remarks: 98 (Other Distraction [Specify:])

Person (Motor Vehicle Occupant) Level Changes

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
P7	Person Type		X	• Revised General Remarks • Revised Remarks: 02 (Passenger of a Motor Vehicle In-Transport)
P9	Seating Position	X	X	• New Attribute and Remarks: 56 (Appended to a Motor Vehicle for Motion)

Person (Not A Motor Vehicle Occupant) Level Changes

ELEMENT #	ELEMENT NAME	NEW/REVISED VALUES	NEW/REVISED REMARKS	COMMENTS
NM7	Person Type		X	• General Remarks Added to Match P7 Person Type

NEED HELP IN CODING? CONTACT NISR THROUGH THE CDAN HELPDESK.

2019 NTS Element Differences from CRSS/FARS

2019 Element Number	Element Name	Coding Level	Characteristic Differences
C18	Crash Events	Crash Level	Different attributes
C19	First Harmful Event	Crash Level	Different attributes
C23A	Location of First Harmful Event	Crash Level	NTS ONLY VARIABLE
V5	Unit Type	Vehicle Level	Different attributes
V32	Sequence of Events	Vehicle Level	Different attributes
V33	Most Harmful Event	Vehicle Level	Different attributes
PC17A	Last Movement	Pre-crash Level	NTS ONLY VARIABLE
P7	Person Type	Person Level (motor vehicle occupant)	Different attributes
NM7	Person Type	Person Level (not a motor vehicle occupant)	Different attributes
NM27	Pedestrian Motion	Person Level (not a motor vehicle occupant)	NTS ONLY VARIABLE
NM28	Pedestrian Posture	Person Level (not a motor vehicle occupant)	NTS ONLY VARIABLE

2019 NTS Element Definitions

Crash Level Elements

2019 Element Number	Element Name	NTS, Case Structure	Definitions
<u>C3</u>	<u>Number of Forms Submitted for Persons Not in MV</u>	Case Structure	This element records the number of Person Level (Not a Motor Vehicle Occupant) forms that are applicable to this case.
<u>C4</u>	<u>Number of Vehicle Forms Submitted</u>	Case Structure	This element records all contact motor vehicles that the officer has reported on the police crash report as a unit involved in the crash.
<u>C5</u>	<u>Number of Person Forms Submitted</u>	Case Structure	This element records the number of Person Level (Motor Vehicle Occupant) forms that are applicable to this case.
<u>C8</u>	<u>Crash Date</u>	NTS	This element identifies the date on which the crash occurred.
<u>C9</u>	<u>Crash Time</u>	NTS	This element identifies the time at which the crash occurred.
<u>C18</u>	<u>Crash Events</u>	NTS	The Crash Events table records in chronological sequence the set of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash.
<u>C19</u>	<u>First Harmful Event</u>	NTS	The First Harmful Event is defined as the first injury or damage producing event of the crash.
<u>C20</u>	<u>Manner of Collision of the First Harmful Event</u>	NTS	This element identifies the orientation of two motor vehicles in-transport when they are involved in the First Harmful Event of a collision crash. If the First Harmful Event is not a collision between two motor vehicles in-transport it is classified as such.

2019 Element Number	Element Name	NTS, Case Structure	Definitions
C23A	Location of First Harmful Event	NTS	This element identifies the location of the crash based on the location of the First Harmful Event.
C27	School Bus Related	NTS	This data element indicates if a school bus, or motor vehicle functioning as a school bus, is related to the crash.

Vehicle Level Elements

2019 Element Number	Element Name	NTS, Case Structure	Definition
V3	Vehicle Number	Case Structure	This element identifies the number assigned to this vehicle in the crash.
V4	Number of Occupants	NTS	This element identifies the number of occupants in each vehicle.
V5	Unit Type	NTS	This element identifies the type of unit that applies to this motor vehicle at the time it became an involved vehicle in the crash and was reported as a unit on the police crash report.
V6	Hit-And-Run	NTS	This element refers to cases where a vehicle is a contact vehicle in the crash and does not stop to render aid (this can include drivers who flee the scene on foot).
V9	Vehicle Make	NTS	This element identifies the make (manufacturer) of this vehicle.
V10	Vehicle Model	NTS	This element identifies the model of this vehicle within a given make.
V11	Body Type	NTS	This element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc.

2019 NTS Element Definitions

2019 Element Number	Element Name	NTS, Case Structure	Definition
V12	Vehicle Model Year	NTS	This element identifies the manufacturer's model year of this vehicle.
V13	Vehicle Identification Number	NTS	This element records the vehicle identification number (VIN) or alphanumeric identifier in the case materials of a single vehicle or the power unit of a combination vehicle.
V14	Vehicle Trailing	NTS	This element identifies whether or not this vehicle had any attached trailing units or was towing another motor vehicle.
V15	Trailer Vehicle Identification Number	NTS	This element records the vehicle identification number (VIN) or alphanumeric identifier in the case materials of any trailing units of a combination vehicle.
V29	Areas of Impact - Initial Contact Point	NTS	This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle.
V29	Areas of Impact - Damaged Areas	NTS	This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case materials.
V30	Extent of Damage	NTS	This element indicates the amount of damage sustained by this vehicle in this crash as indicated in the case materials based on an operational damage scale.
V31	Vehicle Removal	NTS	This data element describes the mode in which the vehicle left the scene of the crash.

2019 Element Number	Element Name	NTS, Case Structure	Definition
V32	Sequence of Events	NTS	The events in sequence related to this motor vehicle, regardless of injury and/or property damage. Code each event for this vehicle in the order in which they occur, time wise, from the Police Crash Report narrative and diagram.
V33	Most Harmful Event	NTS	This element identifies the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.

Driver Level Elements

2019 Element Number	Element Name	NTS, Case Structure	Definition
D3	Vehicle Number - Driver Level	Case Structure	This element identifies the vehicle number associated with this driver.
D4	Driver Presence	NTS	This element identifies whether or not a driver was present in this vehicle at the onset of the unstabilized situation.

Pre-crash Level Elements

2019 Element Number	Element Name	NTS Case Structure	Definition
PC3	Vehicle Number - Pre-crash Level	Case Structure	This element identifies the number assigned to this vehicle in the crash.
PC14	Driver's Vision Obscured By	NTS	This data element records impediments to a driver's visual field that were noted in the case materials.
PC16	Driver Distracted By	NTS	This element identifies the attribute(s) that best describe this driver's attention to driving prior to

2019 NTS Element Definitions

2019 Element Number	Element Name	NTS Case Structure	Definition
			<p>the driver's realization of an impending danger or just prior to impact if realization of an impending danger does not occur. <i>This element reports on the presence of any distractions that may or may not have contributed to the crash.</i> Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity. Also, driving while daydreaming or lost in thought is identified as distracted driving by NHTSA. Physical conditions/ impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA.</p>
PC17A	Last Movement	NTS	This element identifies the attribute that best describes this vehicle's activity prior to the driver's realization of an impending danger or just prior to impact if the driver took no action or had no time to attempt any evasive maneuvers.
PC20	Attempted Avoidance Maneuver	NTS	This element identifies movements/actions taken by the driver after the driver has realization of an impending danger.
PC21	Pre-Impact Stability	NTS	This element assesses the stability of the vehicle after the driver has realization of an impending danger but before the impact.

Person (Motor Vehicle Occupant) Level Elements

2019 Element Number	Element Name	NTS, Case Structure	Definition
P3	Vehicle Number - Person Level	Case Structure	This element identifies the vehicle number associated with this motor vehicle occupant.
P4	Person Number	Case Structure	This element identifies a number for the motor vehicle occupant in consecutive order for the vehicle they occupied.
P5	Age	NTS	This element identifies the person's age in years with respect to the person's last birthday.
P6	Sex	NTS	This element identifies the sex of the person involved in the crash.
P7	Person Type	NTS	This element describes the role of this person involved in the crash.
P8	Injury Severity	NTS	This element describes the severity of the injury to this person in the crash.
P9	Seating Position	NTS	This element identifies the location of this person in or on the vehicle.

Person (Not A Motor Vehicle Occupant) Level Elements

2019 Element Number	Element Name	NTS, Case Structure	Definition
NM3	Person Number	Case Structure	This element identifies a number for people that are not in a motor vehicle in consecutive order.
NM4	Vehicle Number of Motor Vehicle Striking Non-Motorist	NTS	This data element captures the in-transport vehicle that made contact with this non-motorist.
NM5	Age	NTS	This element identifies the person's age in years with respect to the person's last birthday.
NM6	Sex	NTS	This element identifies the sex of the person involved in the crash

2019 NTS Element Definitions

2019 Element Number	Element Name	NTS, Case Structure	Definition
NM7	Person Type	NTS	This element describes the role of this person involved in the crash.
NM8	Injury Severity	NTS	This element describes the severity of the injury to this person in the crash.
NM10	Non-Motorist Location at Time of Crash	NTS	This element identifies the location of the non-motorist at the time of the crash
NM27	Pedestrian Motion	NTS	This element is used to describe the posture of pedestrians.
NM28	Pedestrian Posture	NTS	This element is used to describe the posture of pedestrians.

300. Data Element Coding Instructions

301. Section Organization

For each element an instruction page follows in the order of the elements on the forms. In an element that is duplicated on more than one form, the instructions are provided in the first occurrence of the element with reference to the second occurrence.

The letters in the upper right-hand corner refer to the forms:

- “C” – Crash Level Form
- “V” – Vehicle Level Form
- “D” – Driver Level Form
- “PC” – Precrash Level (Vehicle/Driver) Form
- “P” – Person Level (MV Occupant) Form
- “NM” – Person Level (Not a MV Occupant) Form

The Format section gives the type of element (e.g., numeric, alphanumeric).

The Element Value section lists the attributes for the element and their associated codes.

The Remarks section contains coding instructions, special instructions, etc., for the element.

Crash Level Data Elements

[C3 - Number of Forms Submitted for Persons Not in Motor Vehicles](#)

[C4 - Number of Vehicle Forms Submitted](#)

[C5 - Number of Motor Vehicle Occupant Forms Submitted](#)

[C8 - Crash Date](#)

[C9 - Crash Time](#)

[C18 - Crash Events](#)

[C19 - First Harmful Event](#)

[C20 - Manner of Collision *of the First Harmful Event*](#)

[C23A - Location of First Harmful Event](#)

[C27 - School Bus Related](#)

C3 - Number of Forms Submitted for Persons Not in Motor Vehicles

Format

2 numeric

SAS Name

Accident.PEDS

Element Values

Codes	Attributes
00-99	Actual Number

Definition

This element records the number of Person Level (Not a Motor Vehicle Occupant) forms that are applicable to this case.

Remarks

This count will match exactly the people counted in the case structure field “Number of Persons Not in Motor Vehicles.” Occupants of any motor vehicle in-transport, parked/stopped off roadway motor vehicles, working motor vehicles, or motor vehicles in motion outside the trafficway will **not** be counted in this field.

The count for this field includes:

1. Occupants of a Non-Motor Vehicle Transport Device (people riding in an animal-drawn conveyance, on an animal, injured occupants of railway trains) - [PERSON TYPE](#) attribute **04 (Occupant of a Non-Motor Vehicle Transport Device)**.
2. Pedestrians, Bicyclists and Other Cyclists - [PERSON TYPE](#) attributes: “05, 06, and 07.”
3. Other Persons on Personal Conveyances (i.e., skaters, wheelchair occupants) – Person Level (Not a Motor Vehicle Occupant) form [PERSON TYPE](#) attribute 20-28 (**Person on Personal Conveyances**).
4. Any injured people **outside** the trafficway that are not in a motor vehicle (in buildings) - Person Level (Not a Motor Vehicle Occupant) form [PERSON TYPE](#) attribute **10 (Persons In/On Buildings)**.

C4 - Number of Vehicle Forms Submitted

Format

3 numeric

SAS Name

Accident.VE_TOTAL

Element Values

Codes	Attributes
001-999	Actual Number

Definition

This element records all contact motor vehicles that the officer has reported on the police crash report as a unit involved in the crash.

Remarks

Included are in-transport vehicles, not-in-transport vehicles (parked/stopped off roadway/working motor vehicles), or vehicles located outside the trafficway boundaries.

When identifying contact vehicles for this count:

1. Remember all vehicles that are part of the unstabilized situation are part of the crash. Therefore, when recording the number of vehicles involved, the vehicles need not make contact with one another. They need only have a harmful event as part of the unstabilized situation. For example, two vehicles are traveling through an intersection when a pedestrian steps into the roadway. The first vehicle strikes the pedestrian and the second vehicle swerves to avoid the first, loses control, and overturns. Both vehicles in this situation are “contact” vehicles; therefore, this is a two-vehicle crash.
2. If the vehicle is involved in a harmful event and is a contact vehicle within the entire crash it should be included in this count, regardless of the number of injuries in the vehicle, if the amount of damage sustained is below the State threshold, or whether the vehicle information section is completed on the police crash report.

IMPORTANT:

Remember, you must have **at least one motor vehicle “In-Transport”** involved in the crash for this to be a reportable case.

C5 - Number of Motor Vehicle Occupant Forms Submitted**Format**

3 numeric

SAS Name

Accident.PERSONS

Element Values

Codes	Attributes
000-999	Actual Number

Definition

This element records the number of Person Level (Motor Vehicle Occupant) forms that are applicable to this case.

Remarks

This element is derived when structuring the case.

C8 - Crash Date

Format

2 sets of 2 numeric and 1 set of 4 numeric

SAS Name

Accident.MONTH, Accident.DAY_WEEK, Accident.YEAR, Vehicle.MONTH,
Person.MONTH, Parkwork.PMONTH

Element Values

Codes	Attributes
01-12	Month
01-31	Day (FARS ONLY)
Current (pre-printed)	Year

Definition

This element identifies the date on which the crash occurred.

Remarks

If the police crash report indicates that the crash (usually a hit-and-run) occurred between some p.m. and a.m. time (e.g., 8:00 p.m. and 6:00 a.m.) on either a preceding or following day, code the crash as occurring on the following day. If a range of days is indicated (e.g., between Sunday and Friday), code the last date of the range (e.g., Friday).

If the date of the crash is unknown, use the date the crash was reported. If the time of the crash is unknown, record the time as 9999.

If the month cannot be determined from the police crash report, enter the month of the Ending Contact Date from the Inventory Record.

If the crash date on the police crash report does not match the crash date shown on the data entry screen and it is determined that the crash date on the police crash report is correct, the crash date is corrected.

C9 - Crash Time

Format

4 numeric

SAS Name

Accident.HOUR, Accident.MINUTE, Vehicle.HOUR, Vehicle.MINUTE, Person.HOUR, Person.MINUTE, Parkwork.PHOUR, Parkwork.PMINUTE

Element Values

Codes	Attributes
0000-2359	Valid military time (Code midnight as "0000")
9999	Unknown

Definition

This element identifies the time at which the crash occurred.

Remarks

Enter the time at which the crash occurred as shown on the police crash report. This is the preferred time in all cases. If the crash time is not reported, unknown, or known to be in error, then all available information in the case materials should be used to determine CRASH TIME. If the hour cannot be determined, then enter **9999 (Unknown)**.

If the police crash report indicates the crash occurred during some time interval of greater than one hour (e.g., 8:00 p.m. to 6:00 a.m., or 8:00 a.m. to 5:00 p.m.), enter **9999 (Unknown)**. However, if the interval is one hour or less, code the midpoint of the interval.

Examples:

- 8:00 p.m. to 9:00 p.m., enter **2030**
- 8:30 p.m. to 9:30 p.m., enter **2100**
- 8:50 p.m. to 9:30 p.m., enter **2110**

a.m. - Starts at 00:00 Midnight

p.m. - Starts at 12:00 Noon

How to Code Midnight:

In general, code midnight as **0000 in military time. Midnight is considered to be the beginning of a new day rather than the end of a day. One minute after midnight is 12:01 and is coded as 0001.** However, there may be confusion over which day *the source is referring to when "midnight" is cited or referred to without explanation. Our practice* may not be the practice followed in your sources; therefore, you *must* determine which part of the day *for the crash date given* is being considered in your sources. *The following are examples of midnight time references that do not easily translate to NTS times.*

- *"Midnight"*
- *12:00-midnight*
- *24:00*

End of Day:

If your data sources give you a CRASH DATE and are consistent in talking about the end of that day, when they give a *non-translatable "midnight" time reference* of the crash then you should code Crash Time as **2359**.

Beginning of Day:

If your sources give a CRASH DATE and are consistent in referring to the beginning or early moments of that day when they give a *non-translatable "midnight" crash time*, code "midnight" as **0000**.

NTS SPECIAL INSTRUCTION:

The time of the crash is rolled up. If the time of the crash is unknown, record the time as **9999 (Unknown)**.

If the time of the crash on the police crash report does not match the crash time shown on the data entry screen and it is determined that the crash time on the police crash report is correct, then the crash time should be changed to reflect the time listed on the police crash report.

C18 - Crash Events

Format

(Completed in MDE)

SAS Name

(See Below)

Definition

The Crash Events table records in chronological sequence the set of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash.

Remarks

The “crash” is concluded in time when all events that originate from the unstabilized situation are stabilized. The Crash Events table is designed to provide a coded description of all qualifying events that occurred in the crash.

With this coded chronological sequence of qualified crash events, traffic safety analysts can review the entire series of events involving in-transport motor vehicles. Various areas of concern to the highway safety community can be easily assessed using this data. For instance, the injury severity in crashes can be assessed relative to the number and type of impacts involved. Likewise, certain collision configurations that may create a greater hazardous condition for the occupants can be identified. Other possible areas of analysis would be the mix of vehicles sizes or the types of objects the different classes of vehicles impact.

To complete the Crash Events table, each event for each vehicle is recorded in the order in which they occur, timewise, based on the description of the crash from the crash report narrative, diagram, or other relevant case materials. Crash Events includes harmful events that occur in the crash. Recording of Crash Events ends at the last harmful event of the entire crash.

The Crash Events table is completed based on the actions of the in-transport motor vehicle(s) in the case. Consequently, other involved traffic units (parked motor vehicle, *working motor vehicle*, pedestrian, etc.) are only identified in the events for the in-transport motor vehicle that contacted it. If the crash report includes an event that involves only not-in-transport motor vehicles and/or non-motorists, that specific event is not entered as an event in the coded crash sequence.

Examples Include:

- A not-in-transport vehicle impacts pedestrian, another not-in-transport vehicle, or fixed object.
- A pedestrian or pedalcyclist impacts an object, a not-in-transport vehicle, or other non-motorist.

***NOTE: Data recorded in the Crash Events table is used to derive the following data elements:**

1. [FIRST HARMFUL EVENT \(FHE\)](#) – the first injury or damage producing event in each crash.
2. [AREAS OF IMPACT / Initial \(AOI/Initial\)](#) – the first Areas of Impact value for each vehicle.
3. [SEQUENCE OF EVENTS \(SOE\)](#) – all events (harmful) associated with each in-transport motor vehicle in the table.

For items identified in a “damaged property” section on the report, include all items listed associated with the applicable vehicle in the best order that can be determined. If the actual order cannot be determined, use the listed order of items. In a multi-vehicle crash, if it cannot be determined which vehicle is associated with the damaged property listed; assign these items to the vehicle most likely to be associated with this property. If this cannot be established, omit these events.

C18 Crash Events Table Columns

Vehicle Number (This Vehicle)	Areas of Impact (This Vehicle)	Sequence of Events (SOE)	Vehicle Number (Other Vehicle)	Areas of Impact (Other Vehicle)
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Event Number

Format

(Completed in MDE)

SAS Name

Cevent.EVENTNUM, Vevent.EVENTNUM

Element Values

Codes	Attributes
001-999	Actual Number

Remarks

This is a computer assigned number beginning with “001.” The event number(s) show the chronological sequence of the qualifying harmful events in the crash. Qualifying events are those that involve an in-transport motor vehicle or an object set-in-motion by an in-transport motor vehicle.

In the MDE system this will be the row position and not displayed as a column in the entry table.

Vehicle Number (This Vehicle)**Format**

(Completed in MDE)

SAS Name

Cevent.VNUMBER1, Vevent.VNUMBER1

Element Values

Codes	Attributes
001-999	Actual Number

Remarks

Enter the number of the in-transport motor vehicle associated with the event in the SEQUENCE OF EVENTS column of the Crash Events Table. Vehicles are assigned the police crash report's vehicle number unless a vehicle number from the police crash report is not used in the case (e.g., non-contact vehicle).

Areas of Impact (This Vehicle)**Format**

(Completed in MDE)

SAS Name

Cevent.AOI1, Vevent.AOI1

Element Values

Codes	Attributes
00	Non-Collision
01-12	Clock Points
13	Top
14	Undercarriage
61	Left
62	Left-Front Side
63	Left-Back Side
81	Right
82	Right-Front Side
83	Right-Back Side
18	Cargo/Vehicle Parts Set-In-Motion
19	Other Objects <i>or</i> Person Set-In-Motion
20	Object Set in Motion, Unknown if Cargo/Vehicle Parts or Other
98	Not Reported
99	Reported as Unknown

Remarks

Identifies the contact point (if applicable) for the vehicle coded in Vehicle Number (This Vehicle) associated with this event. If the event is a Collision event, code the value that identifies the impact area or indicates this vehicle set an object in motion. If the event is a Non-Collision event, use the attribute [00 \(Non- Collision\)](#).

This field uses the same values and Remarks as the Vehicle Level data element [AREAS OF IMPACT – Initial Contact Point](#). The Vehicle Level data element AREAS OF IMPACT - Initial Contact Point is derived from the Crash Events Table and will always be the first recorded areas of impact value for each vehicle in the table.

Sequence of Events**Format**

(Completed in MDE)

SAS Name

Cevent.SOE, Vevent.SOE

Element Values**Non-Collision Harmful Events:**

Codes	Attributes
01	Rollover/Overturn
02	Fire/Explosion
03	Immersion or Partial Immersion
04	Gas Inhalation
51	Jackknife (harmful to this vehicle)
06	Injured in Vehicle (Non-Collision)
44	Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
07	Other Non-Collision
72	Cargo/Equipment Loss, Shift, or Damage (harmful)
16	Thrown or Falling Object
05	Fell/Jumped from Vehicle

Collision With Motor Vehicle In-Transport:

Codes	Attributes
54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	Motor Vehicle in Motion Outside the Trafficway

Collision With Object Not Fixed:

Codes	Attributes
08	Pedestrian
09	Pedalcyclist
10	Railway Vehicle
74	Road Vehicle on Rails
11	Live Animal
49	Ridden Animal or Animal-Drawn Conveyance
18	Other Object (Not Fixed)
15	Non-Motorist on Personal Conveyance
14	Parked Motor Vehicle
45	Working Motor Vehicle
73	Object That Had Fallen from Motor Vehicle In-Transport
91	Unknown Object Not Fixed

Collision With Fixed Object:

Codes	Attributes
17	Boulder
19	Building
58	Ground
20	Impact Attenuator/Crash Cushion
50	Bridge Overhead Structure
21	Bridge Pier or Support
23	Bridge Rail (Includes Parapet)
24	Guardrail Face
52	Guardrail End
25	Concrete Traffic Barrier
57	Cable Barrier
26	Other Traffic Barrier
59	Traffic Sign Support
46	Traffic Signal Support
30	Utility Pole/Light Support
31	Other Post, Other Pole, or Other Supports
32	Culvert
33	Curb
34	Ditch
35	Embankment
38	Fence
39	Wall
40	Fire Hydrant
41	Shrubbery
42	Tree (Standing Only)
48	Snow Bank

Codes	Attributes
53	Mail Box
43	Other Fixed Object
93	Unknown Fixed Object

Not Reported/Unknown

Codes	Attributes
98	<i>Harmful Event, Details Not Reported</i>
99	Reported as Unknown

Remarks

This data element is derived from the Crash Events Table. Recording of Crash Events ends at the last harmful event of the entire crash. Correction to the SEQUENCE OF EVENTS order must be made by revision to the Crash Events Table. This field uses the same values and Remarks as the Vehicle Level data element [SEQUENCE OF EVENTS](#).

Vehicle Number (Other Vehicle)**Format**

(Completed in MDE)

SAS Name

Cevent.VNUMBER2, Vevent.VNUMBER2

Element Values

Codes	Attributes
001-999	Actual Number

Remarks

This identifies the vehicle number of the vehicle contacted by the motor vehicle in-transport recorded in “Vehicle Number (This Vehicle).” This field is applicable only when the event is a collision between two motor vehicles (i.e., SEQUENCE OF EVENTS codes [54](#), [55](#), [14](#), or [45](#)). If the event is **not** a collision between two motor vehicles, then Vehicle Number (Other Vehicle) is not applicable and left blank.

Areas of Impact (Other Vehicle)

Format

(Completed in MDE)

SAS Name

Cevent.AOI2, Vevent.AOI2

Element Values

Codes	Attributes
00	Non-Collision
01-12	Clock Points
13	Top
14	Undercarriage
61	Left
62	Left-Front Side
63	Left-Back Side
81	Right
82	Right-Front Side
83	Right-Back Side
18	Cargo/Vehicle Parts Set-In-Motion
19	Other Objects <i>or Person</i> Set-In-Motion
20	Object Set in Motion, Unknown if Cargo/Vehicle Parts or Other
98	Not Reported
99	Reported as Unknown

Remarks

Identifies the contact point (if applicable) for the vehicle coded in Vehicle Number (This Vehicle) associated with this event. If the event is a Collision event, code the value that identifies the impact area or indicates this vehicle set an object in motion. If the event is a [Non-Collision event](#), use the attribute [00 \(Non- Collision\)](#).

This field uses the same values as the Vehicle Level data element [AREAS OF IMPACT – Initial Contact Point](#). The Vehicle Level data element AREAS OF IMPACT - Initial Contact Point is derived from the Crash Events Table and will always be the first recorded AREAS OF IMPACT value for each vehicle in the table.

C19 - First Harmful Event

Format

2 numeric

SAS Name

Accident.HARM_EV, Vehicle.HARM_EV, Person.HARM_EV, Parkwork.PHARM_EV

Element Values

Non-Collision Harmful Events:

Codes	Attributes
01	Rollover/Overturn
02	Fire/Explosion
03	Immersion or Partial Immersion
04	Gas Inhalation
51	Jackknife (harmful to this vehicle)
06	Injured in Vehicle (Non-Collision)
44	Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
07	Other Non-Collision
16	Thrown or Falling Object
72	Cargo/Equipment Loss, Shift, or Damage (harmful)
05	Fell/Jumped from Vehicle

Collision With Motor Vehicle In-Transport:

Codes	Attributes
54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	Motor Vehicle in Motion Outside the Trafficway

Collision With Object Not Fixed:

Codes	Attributes
08	Pedestrian
09	Pedalcyclist
10	Railway Vehicle
74	Road Vehicle on Rails
11	Live Animal
49	Ridden Animal or Animal Drawn Conveyance
18	Other Object (Not Fixed)
15	Non-Motorist on Personal Conveyance
14	Parked Motor Vehicle
45	Working Motor Vehicle

Codes	Attributes
73	Object That Had Fallen from Motor Vehicle In-Transport
91	Unknown Object Not Fixed

Collision With Fixed Object:

Codes	Attributes
17	Boulder
19	Building
58	Ground
20	Impact Attenuator/Crash Cushion
50	Bridge Overhead Structure
21	Bridge Pier or Support
23	Bridge Rail (Includes Parapet)
24	Guardrail Face
52	Guardrail End
25	Concrete Traffic Barrier
57	Cable Barrier
26	Other Traffic Barrier
59	Traffic Sign Support
46	Traffic Signal Support
30	Utility Pole/Light Support
31	Other Post, Other Pole, or Other Supports
32	Culvert
33	Curb
34	Ditch
35	Embankment
38	Fence
39	Wall
40	Fire Hydrant
41	Shrubbery
42	Tree (Standing Only)
48	Snow Bank
53	Mail Box
43	Other Fixed Object
93	Unknown Fixed Object

Not Reported/Unknown

Codes	Attributes
98	Harmful Event, Details Not Reported
99	Reported as Unknown

Definition

The FIRST HARMFUL EVENT is defined as the first injury-or damage-producing event of the crash.

Remarks

On following page.

Non-Collision Harmful Events***Non-Collision events involving motorcycles and vehicles with a “load”:***

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

Examples:

- A motorcycle strikes a deer, overturns and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “Rollover/Overturn” and “Fell/Jumped from Vehicle” that occur as part of the collision event.
- One tractor/trailer rear-ends another tractor/trailer. The impact pushes the lead vehicle’s load into the back of the tractor cab with part falling onto the roadway. Code the collision event, not the non-collision “cargo-loss or shift” that occurred as part of the collision event.

01 (Rollover/Overturn) is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end. For motorcycles, laying the motorcycle down on its side is sufficient to code **01 (Rollover/Overturn)** as a harmful event if damage or injury is produced.

- If there is a **01 (Rollover/Overturn)** that begins in another location but involves a ditch or embankment in the case (e.g., “rolled through the ditch,” “rolled down the embankment,” “came to rest against the embankment”), then the rule applies where if there is no damage associated from an impact with the fixed object during the rollover it is not included in the Crash Events. If there is indication that damage resulted from an impact with the fixed object, it is included in the Crash Events. This follows the same logic as striking a tree or another vehicle during an overturn.

NOTE: For medium/heavy trucks with attached trailers by fixed linkage, when either the power unit or the trailer rolls over, the entire vehicle will be considered a rollover.

02 (Fire/Explosion) is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

- As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle's occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (in open fields, on hillsides, etc.) or to vehicles removed from the scene to another location (tow yard, curbside, etc.) are not considered part of the crash sequence.

03 (Immersion or Partial Immersion) is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water, and the depth cannot be ascertained from case materials. **NOTE:** In immersion fatalities the injury to the person may be noted as “drowning.”

04 (Gas Inhalation) includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

51 (Jackknife [harmful to this vehicle]) applies to a condition that occurs to an articulated vehicle (any vehicle with a trailing unit[s] connected by a hitch, truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

06 (Injured in Vehicle [non-collision]) is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn, causing driver to strike head on side window and knocking driver unconscious.

44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.]) is used when the pavement surface irregularity is on a paved surface. Other examples include indication of contact with a dip, depression, low spot, trough, etc. If the impact is with a surface irregularity (e.g., ruts, potholes) not on a paved surface, use the [58 \(Ground\)](#). For a vehicle that “bottoms out” on the paved surface (causing damage) due to speed but not because of a pavement surface irregularity, use attribute **07 (Other Non-Collision)**.

07 (Other Non-Collision) Non-collision not captured in the listed non-collision attributes.

Examples:

- Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).
- A vehicle “bottoms out,” causing damage due to speed but not because of a pavement surface irregularity. *Damage* due to pavement surface irregularities should be coded **44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])**.

16 (Thrown or Falling Object) is used when any object (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and makes contact with a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in-motion by a motor vehicle (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport\)](#)).

72 (Cargo/Equipment Loss, Shift, or Damage [harmful]) refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, causing damage and/or injury to the vehicle, its occupants, parts, trailing unit, or the cargo itself. Harm can be measured in loss of

monetary value from unrecoverable cargo loss as well as physical damage. This attribute should never be used to refer to a “collision” event (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport\)](#)).

Examples:

- A pickup truck brakes rapidly to avoid a collision, causing a piece of lumber in the pickup bed to smash through the rear window.
- Unsecured cargo shifts inside a box truck and bursts through the wall of the trailer.
- Pallets of beehives on a flatbed truck fall off the truck on a sharp curve, causing the hives to open and the bees to fly away.

Notes:

In situations when a cargo shift is part of a collision event, the cargo shift is not coded separately. See [Non- Collision events involving motorcycles and vehicles with a “load.”](#)

- Use [07 \(Other Non-Collision\)](#) in a situation where a motor vehicle in-transport is towing another unit (motor vehicle, trailer, etc.) and the second unit collides into the back of the power unit (not a Jackknife or part of a collision event).

05 (Fell/Jumped from Vehicle) is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle, causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door. It opens, and the occupant falls out. Or, a person riding on a vehicle’s exterior (hood, roof, running board, etc.) falls or jumps and is injured by the fall. Also use this attribute if an occupant falls or jumps from a vehicle and is struck by that vehicle.

Collision With a Motor Vehicle In-Transport

54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport) is used when the injury-or damage-producing event is two motor vehicles in-transport making contact by something set-in-motion by one or both of the vehicles.

In crashes involving harmful events caused by objects set-in-motion by a motor vehicle in-transport, remember that a vehicle’s load is considered part of the vehicle.

Examples:

- If cargo falls from a truck (in-transport) and strikes another motor vehicle in-transport, this is treated as a two-vehicle crash. Therefore, the proper code for both vehicles is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** and the [AREA OF IMPACT \(This Vehicle\)](#) column is coded [18 \(Cargo/Vehicle Parts Set-In-Motion\)](#).
- If an in-transport vehicle strikes an at-rest object that was previously cargo or part of another motor vehicle in-transport, the SEQUENCE OF EVENTS for that event is [73 \(Object That Had Fallen from Motor Vehicle In-Transport\)](#). If that object is then propelled into another motor vehicle in-transport, the proper SEQUENCE OF EVENTS attribute for this next event is **54 (Motor Vehicle In-Transport Strikes or is Struck by**

Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport) and the [AREA OF IMPACT \(This Vehicle\)](#) column is coded **[19 \(Other Objects or Person Set-In-Motion\)](#)**.

- If an in-transport vehicle strikes an at-rest object that was not cargo or part of another motor vehicle in-transport, the SEQUENCE OF EVENTS for that event is **[18 \(Other Object \[Not Fixed\]\)](#)**. If that object is then propelled into another motor vehicle in-transport, the proper SEQUENCE OF EVENTS code for this next event is **[54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport\)](#)** and the [AREA OF IMPACT \(This Vehicle\)](#) column is coded **[19 \(Other Objects or Person Set-In-Motion\)](#)**.

This attribute does not apply when the cargo, people, or objects set-in-motion by an in-transport motor vehicle strikes something other than another in-transport motor vehicle. In this case, use the applicable “collision with non-fixed object” or “collision with fixed object” code for the thing struck by the cargo, person, or object set-in-motion.

Examples:

- If cargo falls from a truck (in-transport) and strikes another vehicle that is not in-transport, the proper SEQUENCE OF EVENTS attribute is **[14 \(Parked Motor Vehicle\)](#)** or **[45 \(Working Motor Vehicle\)](#)** depending on which type of not-in-transport vehicle was contacted by the load and the [AREA OF IMPACT \(This Vehicle\)](#) column is coded **[18 \(Cargo/Vehicle Parts Set-In-Motion\)](#)**.
- If cargo falls from a truck (in-transport) and strikes a pedestrian, the proper SEQUENCE OF EVENT attribute would be **[08 \(Pedestrian\)](#)** and the [AREA OF IMPACT \(This Vehicle\)](#) column is coded **[18 \(Cargo/Vehicle Parts Set-In-Motion\)](#)**.
- If a pedestrian is struck by an at-rest object propelled by an in-transport vehicle (parked motor vehicle, stop sign, etc.), the proper SEQUENCE OF EVENTS attribute for this harmful event is **[08 \(Pedestrian\)](#)** and the [AREA OF IMPACT \(This Vehicle\)](#) column is coded **[19 \(Other Objects or Person Set-In-Motion\)](#)**.

55 (Motor Vehicle in Motion Outside the Trafficway) is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

Example:

- A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

Collision With Object Not Fixed

08 (Pedestrian) is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

09 (Pedalcyclist) is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle, or pedal car.

- If a non-motorist is hit as a result of a vehicle-to-vehicle collision and you cannot reasonably determine which vehicle struck the non-motorist, use the lowest vehicle number of the MVIT(s) involved in the vehicle-to-vehicle event that resulted in the pedestrian or pedalcyclist collision.

10 (Railway Vehicle) is any land vehicle that is (1) designed primarily for, or in use for, moving people or property from one place to another on rails and (2) not in use on a land way other than a railway.

- Inclusions: Railway Trains, Streetcar/trolley on private way.
- Exclusions: Streetcar/trolley operating on trafficway.

74 (Road Vehicle on Rails) is any land vehicle on rails operating in a trafficway.

- Inclusions: Streetcar/trolley operating on trafficway.
- Exclusions: Railway Trains, Streetcar/trolley on private way, Streetcar/trolley or electric bus operating on tires.

11 (Live Animal) is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart, or other transport device (see [ANSI D16.1](#)). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead, or if it was being ridden or drawing a transport device.

49 (Ridden Animal or Animal-Drawn Conveyance) is used for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass.

18 (Other Object [Not Fixed]) is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider, downed tree limbs or power lines, or debris from a prior crash). For objects that have become separated from a motor vehicle in-transport not as a result of a prior crash, use attribute [73 \(Object That Had Fallen from Motor Vehicle In- Transport\)](#).

15 (Non-Motorist on Personal Conveyance) is used for pedestrians using personal conveyances. A personal conveyance is a device other than a transport device used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

Inclusions:

1. Rideable toys
 - a. Roller skates, in-line skates
 - b. Skateboards
 - c. Skates
 - d. Baby carriages
 - e. Scooters
 - f. Toy wagons
2. Motorized rideable toys

- a. Motorized skateboards
- b. Motorized toy cars
- 3. Devices for personal mobility assistance
 - a. Segway-style devices
 - b. Motorized and non-motorized wheelchairs
 - c. Handicapped scooters

Exclusions:

- 1. Golf carts
- 2. Low Speed Vehicles (LSVs)
- 3. Go-carts
- 4. Minibikes
- 5. “Pocket” motorcycles
- 6. Motor scooters
- 7. Mopeds

14 (Parked Motor Vehicle) is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport.

45 (Working Motor Vehicle) is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance, or utility work related to the trafficway when it became an involved unit. *The vehicle should be known to be in the act of performing work.* This “work” may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc. *DO NOT evaluate this attribute on Body Type alone.*

Examples:

- 1. Asphalt/steamroller working in a highway construction zone paving the roadway or flattening dirt.
- 2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
- 3. Utility truck or a “cherry picker,” performing maintenance on power lines along the roadway or maintaining a traffic signal.
- 4. A private excavating company contracted by the State digging the foundation for a new overpass.
- 5. A State, county, or privately owned snowplow, plowing ice/snow as part of a highway maintenance activity.
- 6. Street sweeper sweeping the street.
- 7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
- 8. A law enforcement vehicle that is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling, or calming influence.

A question may arise when a police, fire, or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, “has its function changed from being a motor vehicle in-transport to a working vehicle?” The answer is “no.” Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport.

73 (Object That Had Fallen from Motor Vehicle In-Transport) is used when a motor vehicle in-transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in-transport. Do not use this attribute for debris from a prior crash. This attribute does not include vehicle occupants that are ejected or fall from a motor vehicle in-transport. (Example: Motorcycle operator falling from a motorcycle.) For people falling from a motor vehicle, see non-collision event [05 \(Fell/Jumped From Vehicle\)](#). For impacts involving two motor vehicles in-transport resulting from cargo, people, or objects set in motion see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by another Motor Vehicle In-Transport\)](#). *For at rest detached trailers (e.g., a detached semi-trailer), use attribute [18 \(Other Object \[Not Fixed\]\)](#).* If cargo fell from a vehicle, *came to rest, and was struck*, this attribute would apply. If the cargo was at rest as a result of a prior *crash*, use attribute [18 \(Other Object \[Not Fixed\]\)](#).

91 (Unknown Object Not Fixed) is used when the event involves an object that is known to be not fixed but the case materials do not identify the specific object.

Collision With Fixed Object

The attributes [58 \(Ground\)](#), [33 \(Curb\)](#), [34 \(Ditch\)](#), and [35 \(Embankment\)](#) are grouped under the **Collision With Fixed Object** subset because they are intended to be harmful events in the crash (i.e., they are associated with an impact that produces injury or damage). When coding these events there must be fields on the police crash report or verbiage in the narrative such as “struck,” “hit,” “impacted,” etc. that identify these as harmful.

For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any police crash report field. In these instances, code the harmful event as stated in the narrative and include the corresponding attribute under [AREAS OF IMPACT](#).

If there is no indication of damage from contact with the fixed object in fields on the police crash report and the narrative language does not identify it as a harmful event (e.g., “came to rest on the embankment,” “drove through” or “drove across” the ditch and/or the embankment, or “drove over” the curb), do not code [33 \(Curb\)](#), [34 \(Ditch\)](#), or [35 \(Embankment\)](#) in the [SEQUENCE OF EVENTS](#).

17 (Boulder) is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact. It may be considered as a fixed object.

19 (Building) is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

58 (Ground) is used when the impact is with an earthen or paved surface off of the roadway. **58 (Ground)** is not to be entered when the harmful event is [01 \(Rollover/Overturn\)](#).

- Indication of furrowing, gouging, or digging in of the tires/wheels is not sufficient to code the collision event **58 (Ground)**. For example, if the police crash report narrative states: “the trucks tires dug into the turf causing the vehicle to roll over,” the harmful event should be **01 (Rollover/Overturn)**.

20 (Impact Attenuator/Crash Cushion) is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

50 (Bridge Overhead Structure) is used when striking the bottom of a bridge while traveling underneath it. See **Figure 5** for a diagram of Bridge Components.

21 (Bridge Pier or Support) is a square or round column of stone, concrete, brick, steel, or wood for supporting a bridge between abutments. This attribute includes the bridge abutments that are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick, or wood (includes the wing-walls). See **Figure 5** for a diagram of Bridge Components.

23 (Bridge Rail [Includes Parapet]) is a wooden, brick, stone, concrete, or metal fence-like structure that runs along the outermost edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. “Balustrade” is often used synonymously with parapet. See **Figure 5** for a diagram of Bridge Components.

- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

24 (Guardrail Face) is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from **25 (Concrete Traffic Barrier)** by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

- Guardrails that serve as bridge rails should be coded as **23 (Bridge Rails [includes Parapet])**.

52 (Guardrail End) is used if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

25 (Concrete Traffic Barrier) refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here; see **39 (Wall)**.

57 (Cable Barrier) refers to a flexible barrier system that uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

26 (Other Traffic Barrier) is used for all other longitudinal barriers such as wood or rock.

59 (Traffic Sign Support) is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and *elevated* signs.

46 (Traffic Signal Support) is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport.

30 (Utility Pole/Light Support) refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable, and other utility pole-type supports.

31 (Other Post, Other Pole, or Other Supports) is used for posts other than highway signs, utility poles, or light supports (reflectors on poles alongside of roadway, parking meters, flag poles, etc.). For mailbox posts, use [53 \(Mail Box\)](#). For fence posts, use [38 \(Fence\)](#).

32 (Culvert) is a man-made drain or channel crossing under a road, sidewalk, etc.

33 (Curb) is a concrete or asphalt structure that borders the paved surface. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the case materials provide some indication that damage has occurred when a vehicle strikes a curb. This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median, or separator, use **33 (Curb)** not [43 \(Other Fixed Object\)](#).

34 (Ditch) includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank,” “embankment of the ditch,” or “ditch embankment” should be coded under **34 (Ditch)**.

35 (Embankment) is a raised structure designed to hold back water or carry a roadway, or is the result of excavation or washout (including erosion) that may be faced with earth, rock, stone, or concrete. A **35 (Embankment)** can usually be differentiated from a [39 \(Wall\)](#) by its incline, whereas a wall is usually vertical. However, there are exceptions to this, such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

- In crashes involving a field approach or driveway crossing, use attribute **35 (Embankment)** when no specific components (e.g., culverts or ditches) are identified.

38 (Fence) includes the fence posts. A Fence can be made of wood, chain link, stone, etc.

39 (Wall) is a primarily vertical structure composed of concrete, metal, timber, or stone that is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as **39 (Wall)** are headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls that are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as [21 \(Bridge Pier or Support\)](#).

40 (Fire Hydrant) refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire standpipes in some areas.

41 (Shrubbery) refers to vegetation that is usually of a woody multi-stemmed variety and in most instances is low-growing rather than tall. Some may also be called bushes. Common examples include boxwood, hawthorn, and mountain laurel.

42 (Tree [Standing Only]) is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches, tree stumps, or large cacti (Saguaro). If a vehicle strikes a fallen tree, use [18 \(Other Object \[Not Fixed\]\)](#). If a tree falls on a vehicle as it is passing by, use [16 \(Thrown or Falling Object\)](#).

48 (Snow Bank) is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice that are not snow-covered earth or rock embankments.

53 (Mail Box) refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This does not include U.S. Mailboxes, which are typically blue and are for general public use. Code a U.S. Mailbox as **43 (Other Fixed Object)**.

43 (Other Fixed Object) is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. This attribute excludes collisions with curbing that forms raised islands, medians, or separators (see [33 \(Curb\)](#)).

Examples:

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U.S. Mailbox for public use

Other examples would include property damage to standing crops, yards, and other vegetation (excluding [41 \(Shrubbery\)](#), [42 \(Tree \[Standing Only\]\)](#), and [58 \(Ground\)](#)) if noted on the crash report.

When the case materials identify a non-specific object impact, apply the following guidelines. If the case materials only identify the harmful event as:

- “Fixed Object,” then use **43 (Other Fixed Object)**
- “Sign,” then use [59 \(Traffic Sign Support\)](#)
- “Post,” then use [31 \(Other Post, Other Pole, or Other Supports\)](#)
- “Sign Post,” then use [59 \(Traffic Sign Support\)](#)
- “Bridge,” then use [23 \(Bridge Rail \[Includes Parapet\]\)](#) when the vehicle is on top of the bridge. When the vehicle is going under the bridge, use [21 \(Bridge Pier or Support\)](#)
- “Barrier,” then use [26 \(Other Traffic Barrier\)](#)

93 (Unknown Fixed Object) is used when the event involves an object that is known to be fixed but the case materials do not identify the specific object.

Not Reported/Unknown

98 (Harmful Event, Details Not Reported) is used when a harmful event was reported but the object classification was not reported.

99 (Reported as Unknown) is used when police indicate unknown.

C20 - Manner of Collision of the First Harmful Event

Format

2 numeric

SAS Name

Accident.MAN_COLL, Vehicle.MAN_COLL, Person.MAN_COLL, Parkwork.PMAN_COLL

Element Values

Codes	Attributes
00	The First Harmful Event was Not a Collision with a Motor Vehicle In-Transport
01	Front-to-Rear
02	Front-to-Front
06	Angle
07	Sideswipe-Same Direction
08	Sideswipe-Opposite Direction
09	Rear-to-Side
10	Rear-to-Rear
11	Other
98	Not Reported
99	Reported as Unknown

Definition

This element identifies the orientation of two motor vehicles in-transport when they are involved in the [FIRST HARMFUL EVENT](#) of a collision crash. If the FIRST HARMFUL EVENT is not a collision between two motor vehicles in-transport it is classified as such.

Remarks

00 (The First Harmful Event was Not a Collision with a Motor Vehicle In-Transport) is used when the [FIRST HARMFUL EVENT](#) is not an impact between two in-transport motor vehicles.

01 (Front-to-Rear) is used when a collision occurs between the rear of one vehicle and the front of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must be front to back.

02 (Front-to-Front) is used when a collision occurs between the front end of one vehicle and the front end of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must both be front.

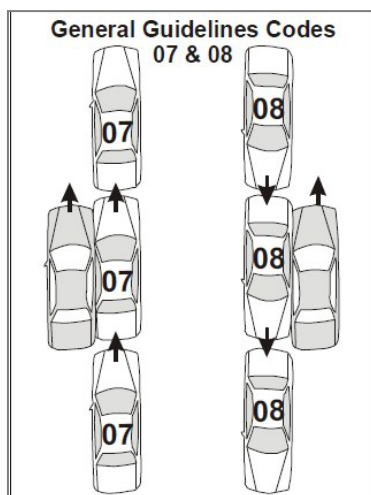
06 (Angle) is a crash where two motor vehicles impact at an angle. For example, the front of one motor vehicle impacts the side of another motor vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must not be front to front, front to back, back-to-back, or back to side.

07 (Sideswipe - Same Direction) is used when the case materials report that a sideswipe occurred while the two vehicles were traveling in the same direction. (See [Figure 1](#).)

Clarification for coding sideswipe attributes 07 and 08:

Sideswipe codes are used for both vehicles when the initial engagement has no significant involvement of the front or rear surface areas. Instead, the impact swipes along the side surfaces of the vehicles parallel to their direction of travel. If it is unclear if the collision was an angle or a sideswipe, then code it **06 (Angle)**. Endswipes and side-to-side angle impacts are coded as **11 (Other)**. (See [Figure 1](#).)

Figure 1. General Guidelines for Sideswipe Codes 07 and 08



08 (Sideswipe - Opposite Direction) is used when the case materials report that a sideswipe occurred while the two vehicles were traveling in opposite directions. (See [Figure 1](#).)

09 (Rear-To-Side) is used when a collision occurs between the rear of one vehicle and the side of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must be back for one and side for the other.

10 (Rear-To-Rear) is used when a collision occurs between the rear of one vehicle and the rear of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must both be back.

11 (Other) should be used for any collision between two motor vehicles in-transport where the collision is not described by attributes “01-10,” including set-in-motion situations.

Examples include:

- One vehicle “end” swipes (endswipe) another vehicle instead of their “sides” swiping.
- One vehicle slides into another vehicle at an angle such that they impact side-to-side.
- One vehicle is airborne and contacts the other vehicle’s hood or top with its front or undercarriage.
- Cargo or other load on one motor vehicle in-transport shifts and lands or is thrown into/onto another vehicle.

- The tire of one motor vehicle in-transport throws a stone through the windshield of another vehicle.
- A vehicle occupant or motorcyclist falls or is thrown from a vehicle striking or being struck by another vehicle.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **11 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in NTS.
2. Code **98 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in NTS.

98 (Not Reported)

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank; OR a code has been selected on the State’s crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

99 (Reported as Unknown) is used when police indicate unknown.

C23A - Location of First Harmful Event

Format

2 numeric

SAS Name

Accident.LOC_FHE

Element Values

Codes	Attributes
01	Residential Driveway
02	Residential Garage
03	Residential Parking Lot
04	Other Residential Area
05	Commercial Driveway
06	Commercial Parking Lot
07	Other Commercial Area
08	Parking Garage Structure residential or commercial
10	Other Parking Lot [incl. all parking lots of unknown type]
11	Other Private Road [to incl. alleys that are not trafficways]
12	Other Developed Area
13	Undeveloped Area
14	Other structure [not parking garage structure]
15	Railway
16	Unknown Driveway Type
98	Not Reported
99	Reported as Unknown

Definition

This element identifies the location of the crash based on the [FIRST HARMFUL EVENT](#).

Remarks

01 (Residential Driveway) refers to a private road giving access from a trafficway to a building used as a private residence or home for one or more families.

02 (Residential Garage) refers to the enclosed portion of a private residence or home for sheltering motor vehicles. A Residential Garage may be a separate structure.

03 (Residential Parking Lot) refers to open areas used primarily for parking road vehicles and providing access to multiple residences.

04 (Other Residential Area) refers to areas around a house or private residence that are not commonly used for the operation of motor vehicles.

05 (Commercial Driveway) is a private road giving access from a trafficway to a building used for non-residential purposes. This includes business enterprises, libraries, schools, hospitals, playgrounds, etc.

06 (Commercial Parking Lot) is the area used primarily for parking road vehicles and providing access to commercial buildings such as shopping malls, grocery stores, department and discount stores, and restaurants.

07 (Other Commercial Area) refers to areas surrounding commercial buildings that are not primarily used for parking vehicles. Included are gas stations' fuel pumps, car washes, and physically separated drive through areas for fast food, banks, loading docks, and similar.

08 (Parking Garage Structure residential or commercial) is a structure designed for the sheltering, storage, or parking of motor vehicles. This includes commercial parking garages and apartment building parking garages.

10 (Other Parking Lot [incl. all parking lots of unknown type]) refers to a parking lot designed for employee, industrial, institutional, educational, and recreational purposes. This element also includes all parking lots of unknown type.

11 (Other Private Road [to incl. alleys that are not trafficways]) is a private road that is not a driveway or a parking lot. Examples include roads on military bases or in gated communities with restricted access and private roads in oil fields, on farms, and on ranches.

12 (Other Developed Area) includes industrial areas, construction areas, and institutional areas that are not commonly used for the operation of motor vehicles. Also included are areas that are clearly not residential or commercial such as playgrounds.

13 (Undeveloped Area) includes all other areas not commonly used for the operation of motor vehicles such as farmland and open fields.

14 (Other structure [not parking garage structure]) is used when the non-motorist is in a roofed and walled structure built for permanent use that is struck during the crash. The type of construction material used is not of interest. Note that this does not include parking garages.

15 (Railway) is a private way reserved primarily for vehicles that operate on rails.

16 (Unknown Driveway Type) is a driveway that cannot be identified as residential or commercial.

98 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered "**Not Reported.**"

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank; OR a code has been

selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

99 (Reported as Unknown) is used when police indicate unknown.

C27 - School Bus Related

Format

1 numeric

SAS Name

Accident.SCH_BUS, Person.SCH_BUS

Element Values

Codes	Attributes
0	No
1	Yes

Definition

This data element indicates if a school bus, or motor vehicle functioning as a school bus, is related to the crash.

Remarks

The “school bus” can be:

- With or without a passenger(s) on board,
- Involved as a contact motor vehicle, or
- Indirectly involved as a non-contact motor vehicle.

A school bus is a motor vehicle used for the transportation of any school pupil at or below the 12th-grade level to or from a public or private school or school-related activity. A motor vehicle is not a school bus while on trips that involve the transportation exclusively of other passengers or exclusively for other purposes.

A motor vehicle is a school bus only if it is externally identifiable by the following characteristics:

1. Its color is yellow.
2. The words “school bus” appear on the front and rear.
3. Flashing red lights are located on the front and rear.
4. Lettering on both sides identifies the school or school district served, or the company operating the bus.

0 (No) is used when there is no indication of a school bus or motor vehicle functioning as a school bus being involved in the crash.

1 (Yes) is used when there is any indication of a school bus or motor vehicle functioning as a school bus being involved in any component of the crash.

To capture those instances where the vehicle is involved indirectly (non-contact vehicle) the following rules apply:

- If the case materials indicate “School Bus,” the assumption is that the law enforcement agency conformed to the definition of school bus; thus **1 (Yes)** School Bus Related.
- If there is no indication that a school bus was indirectly involved, **0 (No)** must be selected.

Examples of School Bus Related (indirectly):

1. A police reported “school bus” stops on the roadway. Subsequently an approaching motor vehicle swerves to avoid the stopped bus and contacts another motor vehicle head-on.
2. A police report indicates that a “child” exited a “school bus” and was crossing in front of the stopped bus when a vehicle passed the bus on the left side and struck the child.
3. A line of cars is stopped for a school bus that is discharging passengers. A motor vehicle approaches, is unable to stop in time, and strikes the last stopped motor vehicle in the line.

Examples of NOT School Bus Related:

1. An empty school bus, having completed its route, is parked alongside the road. A motor vehicle approaching from the rear loses control and strikes the bus.
2. A “Bus” is reported as stopped in traffic. A vehicle swerves to avoid the bus and contacts another vehicle. In this example, there is no positive indication of a “school bus” being involved.

Vehicle Level Data Elements

[V3 - Vehicle Number – Vehicle Level](#)

[V4 - Number of Occupants](#)

[V5 - Unit Type](#)

[V6 - Hit-and-Run](#)

[Vehicle Make/Vehicle Model Overview](#)

[V9 - Vehicle Make](#)

[V10 - Vehicle Model](#)

[Alphabetical Listing of Makes](#)

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[Vehicle Make/Model/Body Type Tables](#)

[V11 - Body Type](#)

[V12 - Vehicle Model Year](#)

[V13 - Vehicle Identification Number](#)

[V14 - Vehicle Trailing](#)

[V15 - Trailer Vehicle Identification Number](#)

[V29 - Areas of Impact – Initial Contact Point/Damaged Areas](#)

[V30 - Extent of Damage](#)

[V31 - Vehicle Removal](#)

[V32 - Sequence of Events](#)

[V33 - Most Harmful Event](#)

V3 - Vehicle Number – Vehicle Level**Format**

3 numeric

SAS Name

Vehicle.VEH_NO, Parkwork.VEH_NO

Element Values

001-999

Definition

This element identifies the number assigned to this vehicle in the crash.

Remarks

Each motor vehicle in a crash must be assigned a unique number. The numbers assigned to vehicles must be consecutive, starting with “001” with no missing numbers.

Motor vehicles are assigned the police crash report’s vehicle number unless a number is skipped (e.g., a non-contact vehicle included on the police crash report with a vehicle number or a non-motorist included with a unit number).

V4 - Number of Occupants

Format

2 numeric

SAS Name

Vehicle.NUMOCCS, Parkwork.PNUMOCCS

Element Values

Codes	Attributes
00	None
01-98	Actual Value* [if Total Known]
99	Unknown

Definition

This element identifies the number of occupants in each vehicle.

Remarks

This data element must be coded for each motor vehicle involved in the crash. Code the total number of occupants (**injured and uninjured**) in this motor vehicle. In bus crashes, the total number of occupants, including the driver, must be entered.

00 (None) is used when this motor vehicle is unoccupied.

01-98 (Actual Value* [If Total Known]) is used when the number of occupants in the vehicle is known. Person Level (MV Occupant) forms should be submitted for all known occupants (even if there is no information in the case materials).

- **Buses are an exception.** For buses ([BODY TYPES 50-52, 55, 58, 59](#)), the total number of occupants, including the driver, should be recorded, but [Person Level \(MV Occupant\) forms](#) should only be submitted for occupants known to be injured and for the driver, whether the driver is known to be injured or not. **NOTE:** This does NOT apply to small van-based buses ([BODY TYPE 21](#)). Always submit a person level form for all occupants of van-based vehicles, including small van-based buses.

99 (Unknown) is used when the number of occupants for the motor vehicle is unknown. Unless evidence clearly establishes the number of occupants present, this code is used when this motor vehicle is a “hit-and-run” vehicle.

If the actual number of motor vehicle occupants is unknown, [Person Level \(MV Occupant\) forms](#) should be submitted for all known occupants (even if there is no information on the police crash report).

- **Buses are an exception.** For buses ([BODY TYPES 50-52, 55, 58, 59](#)), if the total number of occupants is unknown, Person Level (MV Occupant) forms should be submitted for the driver (if there was one) and all occupants known to be injured. This

does NOT apply to small van-based buses ([BODY TYPE 21](#)). If the total number of occupants is unknown for small van-based buses ([BODY TYPE 21](#)), always submit a person level form for all known occupants (even if there is no information in the case materials).

Also use **99 (Unknown)** when the State reports information only on drivers and INJURED passengers and the total number of occupants is unknown.

*** Values greater than 30 are unlikely and will raise a “U” flag.**

V5 - Unit Type

Format

1 numeric

SAS Name

Vehicle.UNITTYPE, Parkwork.PTYPE

Element Values

Codes	Attributes
1	Motor Vehicle In-Transport (Inside or Outside the Trafficway)
3	Motor Vehicle Not In-Transport Outside the Trafficway
4	Working Motor Vehicle (Highway Construction, Maintenance, Utility only)

Definition

This element identifies the type of unit that applies to this motor vehicle at the time it became an involved vehicle in the crash and was reported as a unit on the police crash report.

Remarks

IMPORTANT: Remember, you must have at least one motor vehicle “In-Transport” involved in the crash for this to be a reportable case.

NOTE: For UNIT TYPE attributes “3-4,” you must only submit selected elements on the Vehicle Level. The element [SEQUENCE OF EVENTS](#) is not coded.

1 (Motor Vehicle In-Transport [Inside or Outside the Trafficway]) indicates that this is a motor vehicle in-transport. “In-Transport” means any part of the vehicle’s primary outline as defined by the four sides of the vehicle (excluding open doors or mirrors) or load, if any, is in motion anywhere outside the trafficway boundaries.

Examples:

1. Motor vehicle driving down a private driveway.
2. Motor vehicle in motion, outside the trafficway boundaries (vehicle pulling up to a pump in a gas station, not within trafficway; vehicle in motion in a parking lot aisle; lawn tractor driving in a field adjacent to the trafficway; ATV driving on a dirt track next to trafficway; etc.).

3 (Motor Vehicle Not In-Transport Outside the Trafficway) is used to indicate that this is a motor vehicle **not** in-transport located **outside** the trafficway boundaries when it became an involved unit by being struck by a motor vehicle in-transport. If it can't be determined if a not-in-transport, non-working motor vehicle is within or outside the trafficway, default to **3 (Motor Vehicle Not In-Transport Outside the Trafficway)**.

Examples:

1. Motor vehicle parked in a private driveway, parking lot space, or other private property (outside the trafficway boundaries).
2. Any vehicle (not in motion) used for private construction occurring outside the trafficway boundaries.

4 (Working Motor Vehicle [Highway Construction, Maintenance, Utility only]) indicates that this is a motor vehicle that was in the act of performing highway construction, maintenance, or utility work related to the trafficway when it became an involved unit. ***The vehicle should be known to be in the act of performing work.*** This “work” may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles (except example #8 below), tow trucks, etc. ***DO NOT evaluate this attribute on Body Type alone.***

Examples:

1. Asphalt/steamroller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a “cherry picker,” performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A State, county, or privately owned snowplow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle that is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling, or calming influence.

When not in the act of performing “work,” ***or it cannot be determined if the vehicle was in the act of performing "work,"*** and involved in the crash, these highway construction, maintenance, or utility vehicles can be:

1. In-Transport when traveling from one construction site to the next (UNIT TYPE [1 \(Motor Vehicle In- Transport \[Inside or Outside the Trafficway\]\)](#)).
2. Not In-Transport Outside the Trafficway when parked and refueling at a depot (UNIT TYPE [3 \(Motor Vehicle Not In-Transport Outside the Trafficway\)](#)).
3. In-Transport Outside the Trafficway when relocating off the trafficway from a work activity area to another off-trafficway parking location.

V6 - Hit-and-Run

Format

1 numeric

SAS Name

Vehicle.HIT_RUN, Parkwork.PHIT_RUN

Element Values

Codes	Attributes
0	No
1	Yes
9	Reported as Unknown

Definition

This element refers to cases where a vehicle is a contact vehicle in the crash and does not stop to render aid (this can include drivers who flee the scene on foot).

Remarks

In many States, the investigating officer will note this in the narrative or check the appropriate box on the police crash report. In some cases, the driver can be cited for failing to render assistance. Review the case materials carefully for references to hit-and-run or failure to render aid.

It does not matter whether the hit-and-run vehicle was striking or struck. The hit-and-run vehicle(s) is the one(s) that “departed prior to investigation by the police,” or that vehicle that is “abandoned” at the scene when its occupant(s) fled from the area. If the police crash report indicates that the vehicle was involved in a collision that was investigated, but there is no information on that vehicle or the driver/owner because of departure prior to police arrival on-scene, then hit-and-run is indicated.

0 (No) is used if there is no reason to believe a hit-and-run occurred involving this vehicle or its driver. Example: If a vehicle is involved in a multi-vehicle collision and one of the other contact vehicles leaves the scene. This includes the following:

1. Occupants of a vehicle who are taken or go directly from the scene to a medical treatment facility or physician. However, if doubt exists concerning the departure for treatment, assume hit-and-run.
2. A driver who leaves the scene but furnishes name, address, vehicle make, model, and model year such that it is recorded in the available information, and the available information does not indicate hit-and-run.
3. Vehicles that set an object in motion such that (a) the object is contacted before it stabilizes by another in-transport motor vehicle, and (b) the vehicle that set the object in motion leaves the scene without providing the pertinent information (compare with exception two above), and (c) the available information does not indicate a hit-and-run.

1 (Yes) is used when it has been determined that this vehicle's driver left the scene with or without their vehicle.

A hit-and-run occurred when this vehicle's driver left the scene after:

- Striking a pedestrian or other type of non-motorist.
- Striking a parked/stopped off roadway motor vehicle (with or without occupants).
- Being struck while parked or in-transport.
- Striking or being struck by an in-transport motor vehicle.

If HIT-AND-RUN is **1 (Yes)**, Driver and Person Level (MV Occupant) forms must be submitted for the driver and any known passengers of this vehicle involved in the crash although it was a hit-and-run.

When the presence of a hit-and-run vehicle is indicated and the available information does not provide the number of occupants, NUMBER OF OCCUPANTS must equal **99 (Unknown)**.

9 (Reported as Unknown) is used when the police indicate "Unknown."

Vehicle Make/Vehicle Model Overview

VEHICLE MAKE attributes are organized into general groups. These groups are:

Codes	Attributes
01-28	Domestic Passenger Car
29	Other Domestic Passenger Car
30-67	Import Passenger Car
69	Other Import Passenger Car
70-77	Motored Cycle/Moped
80-89	Truck/Bus
90-94	Bus
97	Not Reported
98	Other Make (where MAKE “29” or “69” are not applicable)
99	Unknown Make

VEHICLE MODEL refers to the series of vehicles for a make (e.g., Pintos, Galaxies, Mustangs are Models of Ford). It does not refer to the various styles within a model unless they are listed in the codes for VEHICLE MODEL.

VEHICLE MODEL attributes are organized into general groups. These groups are:

Codes	Attributes
001-399	Passenger Car (automobile)
400-499	Light Trucks (including truck-based utility vehicles, light duty pickup trucks, standard pickup trucks, vans, mini vans, van-based station wagons, van-based buses, van derivatives, and truck-based station wagons).
598	Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)
700-739	Motored Cycles (including motorcycles, mini-bikes, motor scooters, dirt bikes, and mopeds).
850	Motor Home (truck based)
870	Medium/Heavy Van-Based Vehicle
880-897	Trucks (including all trucks over 10,000 lbs. GVWR except those pickup type trucks mentioned under <u>BODY TYPE</u> code “34” [Pickup]).
898	Other, Unknown, truck over 10,000 lbs. GVWR.
980-996	All buses except those that are van-based.
988	Other bus over 10,000 lbs. GVWR.
989	Unknown Bus
997	Not Reported
998	Other Vehicle
999	Unknown Vehicle

Note that for both VEHICLE MAKE and VEHICLE MODEL the use of the terms “other” and “unknown” have very specific meanings. “Other” refers to a VEHICLE MAKE or VEHICLE

Vehicle Make / Vehicle Model Overview

MODEL that is known but is not explicitly listed. “Unknown” refers to a situation where no specifically named VEHICLE MAKE or VEHICLE MODEL is known.

Selection of the proper “other” or “unknown” code can only be made with consideration of the vehicle [BODY TYPE](#) in accordance with the applicable BODY TYPE for given combinations of “other” and/or “unknown” VEHICLE MAKE and VEHICLE MODEL.

4WD, FWD, or Four-Wheel Drive does not automatically imply on/off road vehicle (Utility Vehicles), body types “14” and “15.”

Reconstructed/Altered Vehicles: In cases where someone builds a “homemade” vehicle from drastically mixed parts, there may be no clear MAKE or MODEL. In addition, the State may issue an Identification Number in place of the Standard [VIN](#). In such cases, code MAKE, MODEL, and MODEL YEAR as “9s.” Code [BODY TYPE](#) as appropriate.

Code the elements appropriately in reconstructed/altered vehicles where the modifications are less drastic, and the MAKE, MODEL, and [VIN](#) are known.

If any detail is known regarding the vehicle’s Make/Model/Body/Year, code what is known and then code the other elements as unknown. For example, you know it’s a Ford 4-door passenger car, but the specific model and year are not reported. Code VEHICLE MAKE as **12 (Ford)**, VEHICLE MODEL as **399 (Unknown (Automobile))**, BODY TYPE as **04 (4-Door Sedan, Hard Top)**, and VEHICLE MODEL YEAR as **9999 (Unknown)**.

Code **Not Reported** only when VEHICLE MAKE, VEHICLE MODEL, BODY TYPE, and VEHICLE MODEL YEAR are all **Not Reported**.

Not Reported

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”

Code **Not Reported** in these situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element, AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank; OR a code has been selected on the State’s crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

V9 - Vehicle Make**Format**

2 numeric

SAS Name

Vehicle.MAKE, Person.MAKE, Parkwork.PMAKE

Element Values

Codes	Attributes
01	American Motors
02	Jeep/Kaiser-Jeep/Willys-Jeep
03	AM General
06	Chrysler
07	Dodge
08	Imperial
09	Plymouth
10	Eagle
12	Ford
13	Lincoln
14	Mercury
18	Buick/Opel
19	Cadillac
20	Chevrolet
21	Oldsmobile
22	Pontiac
23	GMC
24	Saturn
25	Grumman
26	Coda
29	Other Domestic Manufacturers
30	Volkswagen
31	Alfa Romeo
32	Audi
33	Austin/Austin Healey
34	BMW
35	Nissan/Datsun
36	Fiat
37	Honda
38	Isuzu
39	Jaguar
40	Lancia
41	Mazda
42	Mercedes-Benz

Codes	Attributes
43	MG
44	Peugeot
45	Porsche
46	Renault
47	Saab
48	Subaru
49	Toyota
50	Triumph
51	Volvo
52	Mitsubishi
53	Suzuki
54	Acura
55	Hyundai
56	Merkur
57	Yugo
58	Infiniti
59	Lexus
60	Daihatsu
61	Sterling
62	Land Rover
63	Kia
64	Daewoo
65	Smart
67	Scion
69	Other Import
70	BSA
71	Ducati
72	Harley-Davidson
73	Kawasaki
74	Moto-Guzzi
75	Norton
76	Yamaha
77	Victory
80	Brockway

Codes	Attributes
81	Diamond Reo/Reo
82	Freightliner
83	FWD
84	International Harvester/Navistar
85	Kenworth
86	Mack
87	Peterbilt
88	Iveco/Magirus
89	White/Autocar White/GMC

Codes	Attributes
90	Bluebird
91	Eagle Coach
92	Gillig
93	MCI
94	Thomas Built
97	Not Reported
98	Other Make
99	Unknown Make

Definition

This element identifies the make (manufacturer) of this vehicle.

Remarks

SEE ADDITIONAL REMARKS UNDER [VEHICLE MAKE/ VEHICLE MODEL OVERVIEW](#)

Note that for both VEHICLE MAKE and VEHICLE MODEL, the use of the terms “other” and “unknown” have very specific meanings. “Other” refers to a make or model that is known but is not explicitly listed. “Unknown” refers to the situation where no specific make or model is known. Examples: **399 (Unknown (Automobile))**, **499 (Unknown (Light Truck))**, **739 (Unknown cc (ATV))**, **884 (Medium/Heavy Truck - Unknown Engine Location)**, **999 (Unknown)**.

Selection of the proper “other” or “unknown” code can only be made with consideration of the vehicle’s [BODY TYPE](#). For example, if a medium/heavy truck or bus make is known and is not listed, VEHICLE MAKE is coded **Other Make (med/heavy truck/bus or “other”)** and the appropriate model code is used. If the make is unknown but the body type is known as a “school bus,” for instance, VEHICLE MAKE is coded **99 (Unknown Make)** and VEHICLE MODEL is coded **989 (Unknown (Bus))**.

99 (Unknown Make) is used when the vehicle is reported as Unknown, unless reliable evidence indicates the vehicle's make.

97 (Not Reported)

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **97 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element, AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank; OR a code has been

selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

If a vehicle make or vehicle model is encountered that is not listed, NHTSA headquarters is notified.

V10 - Vehicle Model**Format**

3 numeric

SAS Name

Vehicle.MODEL, Person.MODEL, Parkwork.PMODEL

Element Values

Codes	Attributes
001-397	Automobiles
398	Other (Automobile)
399	Unknown (Automobile)
401-497	Light Trucks
498	Other (Light Trucks)
499	Unknown (Light Trucks)
598	Other (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV))
599	Unknown (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV))
701-706	Motorcycles
707	Electric Motorcycle
709	Unknown cc (Motorcycles)
731-734	All-Terrain Vehicles
739	Unknown cc (ATV)
801-809	Other Make (Medium/Heavy Trucks)
850	Motor Home
870	Medium/Heavy Van-Based Vehicle
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs.)
881	Medium/Heavy Trucks – CBE
882	Medium/Heavy Trucks – COE (low entry)
883	Medium/Heavy Trucks – COE (high entry)
884	Medium/Heavy Trucks – Unknown engine location
890	Medium/Heavy Trucks – COE (entry position unknown)
898	Other (Medium/Heavy Trucks)
901-908	Other Make (Buses)
981-987	Buses
988	Other (Bus)
989	Unknown (Bus)
997	Not Reported
998	Other (Vehicle)
999	Unknown

Definition

This element identifies the model of this vehicle within a given make.

Remarks**SEE ADDITIONAL REMARKS UNDER [VEHICLE MAKE/VEHICLE MODEL OVERVIEW](#)**

Note that for both VEHICLE MAKE and VEHICLE MODEL, the use of the terms “other” and “unknown” have very specific meanings. “Other” refers to a make or model that is known but is not explicitly listed. “Unknown” refers to the situation where no specific make or model is known. Examples: **399 (Unknown (Automobile))**, **499 (Unknown (Light Trucks))**, **739 (Unknown cc (ATV))**, **884 (Medium/Heavy Trucks - Unknown Engine Location)**, **999 (Unknown)**.

Selection of the proper “other” or “unknown” code can only be made with consideration of the vehicle’s [BODY TYPE](#). For example, if a medium/heavy truck or bus make is known and is not listed, VEHICLE MAKE is coded **Other Make (med/heavy truck/bus or “other”)** and the appropriate model code is used. If the make is unknown but the body type is known as a “school bus,” for instance, VEHICLE MAKE is coded **99 (Unknown Make)** and VEHICLE MODEL is coded **989 (Unknown (Bus))**.

997 (Not Reported)

If a State’s crash report manual instructs to leave data blocks blank that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **997 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element, AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank; OR a code has been selected on the State’s crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

If a vehicle Make or vehicle Model is encountered that is not listed, NHTSA headquarters is notified.

Alphabetical Listing of Makes

NTS Make Code	Make	NCIC Code*
54	Acura	(ACUR)
31	Alfa Romeo	(ALFA)
03	AM General	(AMGN)
01	American Motors	(AMER)
69-031	Aston Martin	(ASTO)
32	Audi	(AUDI)
33	Austin/Austin Healey	(AUST)
29-001	Avanti	(AVTI)
98-802	Auto-Union-DKW	(AUTU)
69-042	Bentley	(BENT)
69-052	Bertone	(BERO)
90	Bluebird	(BLUI)
34	BMW	(BMW)
69-032	Bricklin	(BRIC)
80	Brockway	(BROC)
70	BSA	(BSA)
69-064	Bugatti	--
18	Buick	(BUIC)
19	Cadillac	(CADI)
98-903	Carpenter	--
69-062	Caterham	--
29-002	Checker	(CHEC)
20	Chevrolet	(CHEV)
06	Chrysler	(CHRY)
69-033	Citroen	(CITR)
26	Coda	--
98-904	Collins Bus	--

NTS Make Code	Make	NCIC Code*
64	Daewoo	(DAEW)
60	Daihatsu	(DAIH)
35	Datsun	(DATS)
69-034	DeLorean	(DELO)
29-398	Desoto	(DESO)
69-048	Desta	--
81	Diamond Reo or Reo	(DIAR)
98-905	DINA	(DINA)
98-803	Divco	(DIVC)
07	Dodge	(DODG)
71	Ducati	(DUCA)
10	Eagle	(EGIL)
91	Eagle Coach	--
29-398	Excalibur	(EXCL)
69-035	Ferrari	(FERR)
36	Fiat	(FIAT)
69-398	Fisker	--
12	Ford	(FORD)
82	Freightliner	(FRHT)
83	FWD	(FWD)
69-398	Gazelle	(GZL)
92	Gillig	--
23	GMC	(GMC)
25	Grumman	(GRUM)
72	Harley-Davidson	(HD)
69-036	Hillman	(HILL)
98-806	Hino	(HINO)

Alphabetical Listing of Makes

NTS Make Code	Make	NCIC Code*
37	Honda	(HOND)
29-398	Hudson	(HUDS)
55	Hyundai	(HYUN)
08	Imperial	(CHRY)
58	Infiniti	(INFI)
84	International Harvester	(INTL)
38	Isuzu	(ISU)
88	Iveco/Magirus	(IVEC)
39	Jaguar	(JAGU)
69-037	Jensen	(JENS)
02	Jeep	(AMER)
02	Kaiser-Jeep	(AMER)
73	Kawasaki	(KAWK)
85	Kenworth	(KW)
63	Kia	(KIA)
69-058	Koenigsegg	--
69-053	Lada	(LADA)
69-038	Lamborghini	(LAMO)
40	Lancia	(LNCI)
62	Land Rover	(LNDR)
59	Lexus	(LEXS)
13	Lincoln	(LINC)
69-039	Lotus	(LOTU)
86	Mack	(MACK)
69-061	Mahindra	--
69-040	Maserati	(MASE)
69-056	Maybach	(MAYB)
41	Mazda	(MAZD)

NTS Make Code	Make	NCIC Code*
69-063	McLaren	--
93	MCI	(MCIN)
42	Mercedes-Benz	(MERZ)
14	Mercury	(MERC)
56	Merkur	(MERK)
98-302	Meyers Motors	--
98-906	Mid Bus	--
69-054	Mini-Cooper	(MNNI)
43	MG	(MG)
52	Mitsubishi	(MITS)
69-055	Morgan	(MORG)
69-041	Morris	(MORR)
74	Moto-Guzzi	(MOGU)
84	Navistar	(NAVI)
98-902	Neoplan	(NEOP)
35	Nissan	(NISS)
75	Norton	(NORT)
21	Oldsmobile	(OLDS)
18	Opel	(OPEL)
98-907	Orion	(ONTR)
98-805	Oshkosh	(OSHK)
29-398	Packard	(PACK)
29-003	Panoz	(PANZ)
87	Peterbilt	(PTRB)
44	Peugeot	(PEUG)
09	Plymouth	(PLYM)
22	Pontiac	(PONT)
45	Porsche	(PORS)
69-049	Reliant (British)	(RELA)

Alphabetical Listing of Makes

NTS Make Code	Make	NCIC Code*
46	Renault	(RENA)
69-042	Rolls Royce	(ROL)
47	Saab	(SAA)
29-004	Saleen	--
24	Saturn	(STRN)
98-807	Scania	(SCAN)
67	Scion	(SCIO)
69-044	Simca	(SIM)
69-398	Singer	(SIN)
65	Smart	(SMRT)
69-057	Spyker	--
61	Sterling	(STLG)
98-809	Sterling	(STLG)
29-001	Studebaker	(STU)
29-398	Stutz	(STUZ)
48	Subaru	(SUBA)
69-045	Sunbeam	(SUNB)
53	Suzuki	(SUZI)

NTS Make Code	Make	NCIC Code*
29-005	Tesla	--
98-301	Think	--
94	Thomas Built	(THMS)
49	Toyota	(TOYT)
50	Triumph	(TRIU)
69-046	TVR	(TVR)
98-808	UD	(UD)
98-908	Van Hool	--
77	Victory	(VCTY)
30	Volkswagen	(VOLK)
51	Volvo	(VOLV)
98-804	Western Star	(WSTR)
89	White/Autocar	(WHIT)
89	White/GMC	(WHGM)
02	Willys-Jeep	(AMER)
76	Yamaha	(YAMA)
57	Yugo	(YUGO)

Numerical Listing of Makes

NTS Make Code	Make	NCIC Code*
01	American Motors	(AMER)
02	Jeep	(AMER)
02	Kaiser-Jeep	(AMER)
02	Willys-Jeep	(AMER)
03	AM General	(AMGN)
06	Chrysler	(CHRY)
07	Dodge	(DODG)
08	Imperial	(CHRY)
09	Plymouth	(PLYM)
10	Eagle	(EGIL)
12	Ford	(FORD)
13	Lincoln	(LINC)
14	Mercury	(MERC)
18	Buick	(BUIC)
18	Opel	(OPEL)
19	Cadillac	(CADI)
20	Chevrolet	(CHEV)
21	Oldsmobile	(OLDS)
22	Pontiac	(PONT)
23	GMC	(GMC)
24	Saturn	(STRN)
25	Grumman	(GRUM)
26	Coda	--
30	Volkswagen	(VOLK)
31	Alfa Romeo	(ALFA)
32	Audi	(AUDI)
33	Austin/Austin Healey	(AUST)

NTS Make Code	Make	NCIC Code*
34	BMW	(BMW)
35	Datsun	(DATS)
35	Nissan	(NISS)
36	Fiat	(FIAT)
37	Honda	(HOND)
38	Isuzu	(ISU)
39	Jaguar	(JAGU)
40	Lancia	(LNCI)
41	Mazda	(MAZD)
42	Mercedes-Benz	(MERZ)
43	MG	(MG)
44	Peugeot	(PEUG)
45	Porsche	(PORS)
46	Renault	(RENA)
47	Saab	(SAA)
48	Subaru	(SUBA)
49	Toyota	(TOYT)
50	Triumph	(TRIU)
51	Volvo	(VOLV)
52	Mitsubishi	(MITS)
53	Suzuki	(SUZI)
54	Acura	(ACUR)
55	Hyundai	(HYUN)
56	Merkur	(MERK)
57	Yugo	(YUGO)
58	Infiniti	(INFI)
59	Lexus	(LEXS)

Numerical Listing of Makes

NTS Make Code	Make	NCIC Code*
60	Daihatsu	(DAIH)
61	Sterling	(STLG)
62	Land Rover	(LNDR)
63	Kia	(KIA)
64	Daewoo	(DAEW)
65	Smart	(SMRT)
67	Scion	(SCIO)
70	BSA	(BSA)
71	Ducati	(DUCA)
72	Harley-Davidson	(HD)
73	Kawasaki	(KAWK)
74	Moto-Guzzi	(MOGU)
75	Norton	(NORT)
76	Yamaha	(YAMA)
77	Victory	(VCTY)
80	Brockway	(BROC)
81	Diamond Reo or Reo	(DIAR)
82	Freightliner	(FRHT)
83	FWD	(FWD)
84	International Harvester	(INTL)
84	Navistar	(NAVI)
85	Kenworth	(KW)
86	Mack	(MACK)
87	Peterbilt	(PTRB)
88	Iveco/Magirus	(IVEC)
89	White/Autocar	(WHIT)
89	White/GMC	(WHGM)
90	Bluebird	(BLUI)

NTS Make Code	Make	NCIC Code*
91	Eagle Coach	--
92	Gillig	--
93	MCI	(MCIN)
94	Thomas Built	(THMS)
29-001	Avanti	(AVTI)
29-001	Studebaker	(STU)
29-002	Checker	(CHEC)
29-003	Panoz	(PANZ)
29-004	Saleen	--
29-005	Tesla	--
29-398	Desoto	(DESO)
29-398	Excalibur	(EXCL)
29-398	Hudson	(HUDS)
29-398	Packard	(PACK)
29-398	Stutz	(STUZ)
69-031	Aston Martin	(ASTO)
69-032	Bricklin	(BRIC)
69-033	Citroen	(CITR)
69-034	DeLorean	(DELO)
69-035	Ferrari	(FERR)
69-036	Hillman	(HILL)
69-037	Jensen	(JENS)
69-038	Lamborghini	(LAMO)
69-039	Lotus	(LOTU)
69-040	Maserati	(MASE)
69-041	Morris	(MORR)
69-042	Bentley	(BENT)
69-042	Rolls Royce	(ROL)
69-044	Simca	(SIM)

Numerical Listing of Makes

NTS Make Code	Make	NCIC Code*
69-045	Sunbeam	(SUNB)
69-046	TVR	(TVR)
69-048	Desta	--
69-049	Reliant (British)	(RELA)
69-052	Bertone	(BERO)
69-053	Lada	(LADA)
69-054	Mini-Cooper	(MNNI)
69-055	Morgan	(MORG)
69-056	Maybach	(MAYB)
69-057	Spyker	--
69-058	Koenigsegg	--
69-061	Mahindra	--
69-062	Caterham	--
69-063	McLaren	--
69-064	Bugatti	--
69-398	Fisker	--
69-398	Gazelle	(GZL)
69-398	Singer	(SIN)
98-301	Think	--
98-302	Meyers Motors	--
98-802	Auto-Union-DKW	(AUTU)
98-803	Divco	(DIVC)
98-804	Western Star	(WSTR)
98-805	Oshkosh	(OSHK)
98-806	Hino	(HINO)
98-807	Scania	(SCAN)
98-808	UD	(UD)
98-809	Sterling	(STLG)
98-902	Neoplan	(NEOP)

NTS Make Code	Make	NCIC Code*
98-903	Carpenter	--
98-904	Collins Bus	--
98-905	DINA	(DINA)
98-906	Mid Bus	--
98-907	Orion	(ONTR)
98-908	Van Hool	--

Vehicle Make / Model / Body Type Tables

Vehicle Make / Model / Body Type Tables

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Passenger Vehicles**MAKE: Acura (54) (ACUR)****AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Integra	GS, LS, RS, GS-R, Type R	1986-2001, 9999	03-05, 07, 09
032	Legend	L, LS, GS, Special Edition, GS-R	1986-95, 9999	02, 04, 08, 09
033	NSX (For 1991-2005 only. For 2016 on see model 043.)	NSX-T	1991-2005, 9999	02
034	Vigor	--	1992-94, 9999	04
035	TL	3.2, 3.5, 3.7, SH-AWD (AT/MT)	1996-2014, 9999	04
036	RL/RLX	3.5, 3.7, Hybrid, Sport Hybrid	1996-2019, 9999	04
037	CL	2.2, 2.3, 3.0, 3.2, Type S	1997-2003, 9999	02
038	RSX	2.0, Type S	2002-06, 9999	03
039	TSX	2.4, 3.5, Hybrid, Special Edition, V6	2004-14, 9999	04, 06, 09
040	ZDX	3.7, SH-AWD	2010-13, 9999	05
041	ILX	2.0, 2.4, Hybrid, Premium, A- Spec, Special Edition, AcuraWatch Plus, Technology Plus, Standard	2013-19, 9999	04
043	NSX (2016 on. For 1991- 2005 see model 033.)	Sport, GT3, Sport Hybrid	2016-19, 9999	02
044	TLX	2.4, 3.6 V-6, Standard, GT Package, A-Spec, Advance Package, Technology Package	2015-19, 9999	04
398	Other (automobile)	--	1986-2019, 9999	02-09

Codes	Models	Includes	Model Years	Body Types
399	Unknown (automobile)	--	1986-2019, 9999	02-09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	SLX	--	1996-2000, 9999	14
402	RDX	2.3, SH-AWD, Standard, Advance, AcuraWatch Plus, Technology	2007-19, 9999	14
421	MDX	Standard, Sport Hybrid, Technology/Advance/ Entertainment Package	2001-19, 9999	15
499	Unknown (light truck)	--	1996-2019, 9999	19

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (ACURA)	--	1986-2019, 9999	49

MAKE: Alfa Romeo (31) (ALFA)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Spider (Spyder)	Roadsters, Veloce, Quadrifoglio, Duetto, Graduate, 1600/1750/1900/ 2000 roadsters, Giulia, Giulietta, Giulietta Veloce, Tipo	1933-94, 9999	01, 02, 09
032	Sports Sedan	4-door sedans (except 164); Milano, Giulietta, Super, Berlina, Alfetta, Giulia 1750/1900/2000/2600 sedans, Alpha 90	1933-89, 9999	04

Codes	Models	Includes	Model Years	Body Types
033	Sprint/Special	2-door coupes; Alfetta GT, Monteval, 1750/1900/2000/2600 GTV, Sprint GT, GT Veloce, Giulia, Giulietta, Super, GTA, GTV, GTZ, TZ2	1933-80, 9999	02
034	GTV-6	--	1981-86, 9999	02
035	164 (Alpha 164)	LS, Q, Quadrifoglio	1990-95, 9999	04
036	4c	Launch Edition, Base	2014-19, 9999	01, 02, 09
037	Giulia	Base, Ti, Quadrifoglio	2016-19, 9999	02, 04, 09
398	Other (automobile)	Alfa, Montreal	1933-95, 2014-19, 9999	01-04, 08, 09
399	Unknown (automobile)	--	1933-95, 2014-19, 9999	01-04, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Stelvio (For 2018 only. For model years 2019 on, see 31-422.)	Base, Ti, Quadrifoglio	2018	14
422	Stelvio (For 2019 on. For model year 2018, see 31- 401.)	Base, Ti, Quadrifoglio	2019	15

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (ALFA ROMEO)	--	2018-19, 9999	49

MAKE: AM General (03) (AMGN)**LIGHT TRUCKS**

Codes	Models	Includes	Model Years	Body Types
401	Dispatcher	Post Office (Jeep)	1965-94, 9999	14
402	Hummer	H3 (Base, Luxury, Adventure, Limited Edition), x, Alpha	2006-11, 9999	14

Codes	Models	Includes	Model Years	Body Types
421	Hummer (SUV from 1993- 2003; see 431 for 2004 on) (for Pickup, see model 481)	Slantback-HMSB, H1, H2	1992-2003, 9999	15
431	Hummer (2004 on; see model 421 for 1993-2003)	H1 (Base, Luxury, Adventure), H2 (Base, Luxury, Adventure), Limousine	2004-11, 9999	16
441	MV-1	SE, DX, LX, Taxi	2013-15, 9999	20
466	Dispatcher	DJ-Series-Post Office Van	1965-91, 9999	22
481	Hummer (Pickup) (for SUV see model 421 for 1993- 2003; see 431 for 2004 on)	H1, H2 (Base, Luxury, Adventure, Limited Edition), Alpha	1992-2011, 9999	34
482	Hummer	H3T (Adventure, Luxury, Alpha)	2009-11, 9999	34
498	Other (light truck)	--	1940-2011, 2013-15, 9999	14-16, 19, 20, 22, 33, 34, 39, 40, 41, 42, 45, 48
499	Unknown (light truck)	--	1940-2011, 2013-15, 9999	14-16, 19, 20, 22, 33, 34, 39, 40, 41, 42, 45, 48, 49

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
884	Medium/Heavy Truck	Military off-road	1965-2011, 9999	60-64, 71, 72, 78
898	Other (medium/heavy truck)	--	1965-94, 9999	60-64, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
983	Bus: Rear engine, Flat front	Transit	1965-94, 9999	52
988	Other (bus)	--	1965-94, 9999	50-52, 58, 59

Codes	Models	Includes	Model Years	Body Types
989	Unknown Bus Type	--	1965-94, 9999	50-52, 58, 59

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-94, 9999	92, 93, 97
999	Unknown (AM GENERAL)	--	1965-2011, 2013-15, 9999	49, 79, 99

MAKE: American Motors* (01) (AMER)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Rambler	Rogue, 220, 330, 440, 440-H, Scrambler Deluxe, Custom, Super, Classic, Brougham, SC	1954-69, 9999	01, 02, 04, 06, 08, 09
002	Rebel	Mariner, Briarcliff, Westerner, The Machine, SST, 550, Grant, King	1967-70, 9999	01, 02, 04, 06, 08, 09
002	Matador	Brougham, X, Oleg Cassini, Barcelona, Police, The Machine	1971-78, 9999	02, 04, 06, 08, 09
002	Marlin	Black, Radar, Tahiti, Marlin II	1965-67, 9999	02, 08, 09
003	Ambassador	800, 880, 990, SST, DPL, Brougham, DDL, Limited	1958-74, 9999	02, 04, 06, 08, 09
004	Pacer	D/L, X, Limited	1975-80, 9999	02, 03, 06, 09
005	AMX	(2-seater only)	1968-70, 9999	02, 03, 09
006	Javelin	SST, AMX (1971-1974)	1968-74, 9999	02, 03, 09
007	Hornet	SST, Sportabout, AMX D/L, SC-360, Gucci Edition, Levi Trim Package, X	1970-77, 9999	02-04, 06, 08, 09
007	Concord	AMX Limited, D/L, Levi Trim, Sport, Base, Sundancer	1978-83, 9999	01-04, 06, 08, 09

Codes	Models	Includes	Model Years	Body Types
008	Gremlin	Base, X, Levi Trim, GT, AMX	1970-78, 9999	03, 09
008	Spirit	GT, AMX, D/L, SST	1979-83, 9999	02, 03, 09
009	Eagle	Sport, Series 30, Sundancer, Limited	1980-88, 9999	01-04, 06, 08, 09
010	Eagle SX-4	50 Series, Kammback, Sport	1981-84, 9999	02, 03, 09
398	Other (automobile)	--	1940-88, 9999	01-04, 06, 08, 09
399	Unknown (automobile)	--	1940-88, 9999	01-04, 06, 08, 09

* NOTE: Alliance, Encore, Premier (including L, DL, and Limited) are coded under [Renault \(46\)](#).

MAKE: Audi (32) (AUDI)

AUTOMOBILES

Codes	Models	Includes	Model Years	Body Types
031	Super 90	--	1966-72, 9999	02, 04, 06, 08, 09
032	100	S, CS, LS, GL, Quattro (1989- on)	1970-77, 1989- 94, 9999	02, 04, 06, 08, 09
033	Fox	--	1973-79, 9999	02, 04, 06, 08, 09
034	4000	Quattro, Coupe, Coupe GT, CS, S	1980-93, 9999	02, 04, 08, 09
035	5000	Quattro, CS, S, CS Turbo Quattro, T	1978-93, 9999	04, 06, 09
036	80/90	Quattro, Coupe Quattro	1988-95, 9999	04
037	200	Turbo Quattro	1989-92, 9999	04, 06, 09
038	V-8 Quattro	100 series	1990-94, 9999	04
039	Coupe Quattro	4000 series	1990-91, 9999	02, 03, 09

Codes	Models	Includes	Model Years	Body Types
040	S4 (1992-1994; 2000-2011 only. See model 055 for 2012 on)/S6 (1992-1994; 2000-2011 only. See model 056 for 2013 on.)	Quattro, Avant Quattro (Wagon), 3.0, 4.2 Saloon, Avant (2.7), RS4, Special Edition, V10, 5.6, 5.2	1992-95, 2000- 11, 9999	01, 04, 06, 09
041	Cabriolet (1994-1998)	--	1994-98, 9999	01
042	A6	Avant Quattro Wagon (3.0L, 3.0T), Quattro (2.7T, 4.2), FrontTrak (2.8, 3.0L), RS6, 3.2, S Line, 3.0T (Premium, Premium Plus, Prestige), 2.0T (Premium, Premium Plus), Special Edition	1995-2019, 9999	04, 06, 09
043	A4	Avant Wagon (1.8T, 2.0T, 2.8, 3.0, 3.2), Avant Quattro Wagon, FrontTrak (1.8, 2.8, 3.0), Quattro (1.8T, 2.0T, 3.0, 3.2), Special Edition, S Line, 2.0T (Premium, Premium Plus, Prestige)	1996-2019, 9999	01, 04, 06, 09
044	A8	4.2 Quattro, L (3.0, 4.0), W12 (6.3), NWB, 3.0T, 4.0T, TDI, Sport	1997-2019, 9999	04
045	TT/TTS	FWD, Quattro AWD, 180, 225 Quattro Roadster, FrontTrak (180), 1.8L, 2.0, 3.2L, S Line, RS (Premium, Premium Plus, Prestige), 2.0T (Premium Plus, Prestige), RS	2000-19, 9999	01-03, 09
046	S8	4.2 Quattro, 5.2, 4.0 TFSI, Plus (4.0)	2001-03, 2007- 09, 2012-19, 9999	02, 04, 08, 09
047	Allroad (2001-05 only. See 403 for 2013 on)	QuattroWagon, 2.7T, 4.2	2001-05, 9999	06

Codes	Models	Includes	Model Years	Body Types
048	A3	2.0T/FSI, 3.2 S Line (Premium, Premium Plus), TDI, 1.8, Prestige, Sportback e-tron (Premium, Premium Plus, Prestige)	2006-19, 9999	01, 03, 04, 05, 09
049	A5	2.0, 2.0T, 3.2, (Premium, Premium Plus, Prestige), Quattro	2008-19, 9999	01, 02, 05, 09
050	R8	4.2, 5.2, Spyder (V8, V10), GT (Spyder), (V8, V10, V10 Plus)	2008-19, 9999	01, 02, 09
051	A7	Premium, Premium Plus, Prestige, (3.0 TFSI/TDI)	2008-10, 2012- 19, 9999	04, 05, 09
052	S5	4.2, 3.0T (Premium Plus, Prestige), Quattro	2008-19, 9999	01, 02, 05, 09
054	RS5	4.2 Prestige, V8	2013-15, 2018- 19, 9999	01, 02, 05, 09
055	S4 (2012 on only. See model 040 for 1992-1994; 2000-2011)	3.0T Prestige, Premium Plus	2012-19, 9999	04
056	S6 (2013 on. See model 040 for 1992-1994; 2000- 2011)	4.0TFSI Premium Plus, Prestige	2013-19, 9999	04
057	S7	4.0, Premium Plus, Prestige	2013-19, 9999	04, 05, 09
058	RS7	4.0 TFSI, Performance	2014-19, 9999	05
059	S3	2.0 (Premium Plus, Prestige)	2015-19, 9999	04, 05, 09
060	RS3	--	2018-19, 9999	04
398	Other (automobile)	--	1970-2019, 9999	01-06, 08, 09
399	Unknown (automobile)	--	1970-2019, 9999	01-06, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Q7 (For 2007-2018 only. For model years 2019 on, see 32-422.)	3.6/4.2, 3.0T, TDI (Premium, Premium Plus, Prestige) Hybrid, S Line,	2007-18, 9999	14
402	Q5	2.0T, 3.2, 3.0T (Premium, Premium Plus, Prestige), Hybrid (2.0)	2008-19, 9999	14
403	Allroad (2013 on. For 2001- 2005 see model 047.)	2.0T (Premium, Premium Plus, Prestige)	2013-19, 9999	14
404	SQ5	3.0 (Premium Plus, Prestige)	2014-19, 9999	14
405	Q3	2.0 TFSI (Premium Plus, Prestige)	2015-19, 9999	14
421	Q8	Premium, Premium Plus, Prestige	2019	15
422	Q7 (For 2019 on. For model years 2007-2018, see 32- 401.)	2.0T, 3.0T	2019	15
499	Unknown (light truck)	--	2007-19, 9999	14 , 15 , 19

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (AUDI)	--	1966-2019, 9999	19 , 99

MAKE: Austin/Austin Healey (33) (AUST)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Marina	GT	1973-75, 9999	01-04 , 08 , 09
032	America	--	1968-72, 9999	02
033	Healey Sprite	Mark II, MKIV/Princess (Special Order)	1958-70, 9999	01 , 04 , 09
034	Healey 100/3000	M, S, Mark III	1953-67, 9999	01

Codes	Models	Includes	Model Years	Body Types
035	Mini/Mini Cooper/Mini Moke	850, S	1960-69, 9999	01, 02, 06, 09
398	Other (automobile)	A35, A40, Westminster, Cambridge, Somerset, Seven, Hereford, Sports, Sheerline, Atlantic, Countryman, Dorset, Devon	1947-75, 9999	01-04, 06, 08, 09
399	Unknown (automobile)	--	1947-75, 9999	01-04, 06, 08, 09

MAKE: BMW (34) (BMW)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	1600/1800/2000/2002	Ti, Tii, Tilux, TR, CS, 1600-2, SA, Turbo, A, 1500, 2600, 501, 502	1955-76, 9999	01-04, 08, 09
032	Coupe (before 1975)	2800CS, 3.0CS, 3.0csi, 3.0csl, 3200, 503, 507, M1, 1802, 2000c/cs, 2002	1956-76, 9999	01-03, 09
033	Bavarian Sedan	2500, 2800, 2.8 Bavarian	1969-74, 9999	04
034	3-series	3.0s/si, 318i/is/ti/iC, 320i, 323iS/iC/i/Ci, 325e/es/i/iS/ii/ C/Ci/Cic/xi/iT/xiT, Sport Wagon (iT/xiT), 328 d/i/iS/ti/ iC/Ci/x/xi, xDrive, 330e/i/Ci/ Cic/xi, 335i/is/xi/d, 340i, xDrive, ActiveHybrid, M3, Gran Tourismo (328i), 340i	1971-2019, 9999	01-06, 08, 09
035	5-series	524i, 525i/xi, 528i/iT/xi, xDrive, 530e/i/iT/xi, 533i, 535d/i/xi, xDrive, 550i, xDrive 540/i/iA/iT, TD Sport Wagon, 525i/iT, (wagon 1992-93), M5, 545i, 550i/ix, Gran	1975-2019, 9999	04-06, 09

Codes	Models	Includes	Model Years	Body Types
		Turismo (535i, 550i), ActiveHybrid 5		
036	6-series	630, 633, 635, csi, M6, L6, 640i, 645Ci, 650i/ix, Neiman Marcus Edition, xDrive, Alpina B, B6, Gran Turismo (640i)	1976-89, 2004- 19, 9999	01, 02, 04, 05, 08, 09
037	7-series	733i, 735i, L7, 740 e/d/i/L/iL /iA/Li Protection, 750 i/iL/Li/ Lxi/ix Protection, 745i/Li, 760i/Li, Alpina B7, Individual, ActiveHybrid 7, xDrive, M760i	1978-2019, 9999	04
038	8-series	840Ci/cia, 850i/iS/Ci/Cia, xDrive	1991-97, 2019, 9999	02
039	Z3	2.3/2.8/2.5i/3.0i Roadster, MRoadster, MCoupe, 2.8/3.0i Coupe	1996-2003, 9999	01-03, 09
040	Z8	--	2000-03, 9999	01
041	V5	--	2007-08, 9999	06
042	Z4	2.5i, 2.8i, 3.0i/si, 3.5i/is, Z4M/s/sDrive, 28i, 30i, 35i/s	2003-16, 2018- 19, 9999	01, 02, 09
043	1-Series	128i, 135i/is, Electric	2008-14, 9999	01, 02, 09
044	X6 (For 2008-2015. For 2016 on, see model 404.)	35i, 50i, ActiveHybrid, M, xDrive	2008-15, 9999	05
045	i3	Base, Range Extender	2014-17, 9999	03
046	i8	--	2014-17, 9999	01, 02, 09
047	4-Series	428i, 435i, xDrive, M4, 430i, 440i	2014-19, 9999	01, 02, 04, 08, 09
048	2-Series	228i, 230i, M235i, M240i, XDrive, M2	2015-19, 9999	01, 02, 09
049	X4	28i, 35i, M40i	2015-19, 9999	05
398	Other (automobile)	--	1955-2019, 9999	01-06, 08, 09

Codes	Models	Includes	Model Years	Body Types
399	Unknown (automobile)	--	1955-2019, 9999	01-06, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	X5 (For 2000-17 (for models manufactured as 2017 during the 2016 model year). For 2017 models manufactured during the 2017 model year on, see model 421)	3.0i/si, 4.0is, 4.4i, 4.6is, 4.8is, M, 35i/d, Premium, 50i, Sport Activity, Premium. sDrive	2000-17, 9999	14
402	X3	25i, 28 d/i, 30i/xDrive, 35i, 4.8is, M40i, M Sports, xLine, Luxury Package	2004-19, 9999	14
403	X1	28i/is, 35i, xDrive, xLine	2012-19, 9999	14
404	X6 (For 2016 on. For 2008- 2015, see model 044.)	35i, 50i, xDrive, sDrive, M	2016-19, 9999	14
405	X2	M35i	2018-19, 9999	14
421	X5 (For 2017 models manufactured during the 2017 model year on. For 2000-17 (for models manufactured as 2017 during the 2016 model year), see model 401)	35i/d, 40e, 50i, M	2017-19, 9999	15
422	X7	30i/40i xDrive	2019	15
499	Unknown (light truck)	--	2000-19, 9999	14, 15, 19

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
703	125-349cc	G310	1948-66, 2017- 19, 9999	80, 84, 89

Codes	Models	Includes	Model Years	Body Types
705	450-749cc	--	1950-2003, 2006-19, 9999	80, 84, 89
706	750cc and over	--	1969-2019, 9999	80, 84, 89
709	Unknown cc	--	1948-2019, 9999	80, 84, 89

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (BMW)	--	1948-2019, 9999	49, 99

MAKE: Buick (18) (BUIC)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Special/Skylark	GS (350, 400, 455), Deluxe GS California, Sport Wagon, Custom Roadmaster (1946- 59), Skylark Edition	1936-73, 9999	01, 02, 04, 06, 08, 09
002	LeSabre/Centurion/ Wildcat	Estate Wagon, Invicta, Custom, Limited, T-Type, Ltd, C.M.I, LE, Celebration Edition, Best Seller	1959-2005, 9999	01, 02, 04, 06, 08, 09
003	Electra/Electra 225/Park Avenue (1991-on)	Limited, Park Avenue, Ultra, Base, Prestige, SE	1959-2005, 9999	01, 02, 04, 06, 08, 09
004	Roadmaster	Estate Wagon, Limited	1991-96, 9999	04, 06, 09
005	Riviera	S-Type, T-Type, Coupe Anniversary Edition, Silver Arrow	1963-93, 1995- 99, 9999	01, 02, 09
007	Century	Luxus, T-Type, FWD (82- on), Custom, Regal (72- 77), Limited, LE, SE, Base, Special	1954-2005, 9999	01, 02, 04, 06, 08, 09
008	Apollo/Skylark	Skylark (75), S/R	1973-76, 9999	02-04, 08, 09

Codes	Models	Includes	Model Years	Body Types
010	Regal (RWD only)	Turbo, Luxus, Grand National GNX, T-Type	1978-88, 9999	02, 04, 06, 08, 09
012	Skyhawk	S-Type, Roadhawk, T-Type, GT	1975-80, 1982- 89, 9999	02-04, 06, 08, 09
015	Skylark (76-85)	S/R, S, Limited, Sport, T-Type	1975-85, 9999	02-04, 08, 09
018	Somerset/Skylark	Skylark (86-on), Somerset, GS, Regal, Custom, Limited, T-Type	1985-98, 9999	02, 04, 08, 09
019	Regal (2011 on)	GS, CXL, Turbo, Premium I/II, Base, Grand National, Sport Touring, Sportback/GS, TourX, Avenir	2011-19, 9999	04, 05, 06, 09
020	Regal (FWD) (For 2011 on, see model 019)	Limited, Custom, Gold, Grand Sport GS, LS, Sport	1987-2004, 9999	02, 04, 08, 09
021	Reatta	--	1988-91, 9999	01, 02, 09
022	LaCrosse	CX, CXL (FWD/AWD), CXS, Super, Leather, Premium I/II, Touring, Preferred, Essence, Avenir	2005-19, 9999	04
023	Lucerne	CX, CXL V6, CXL V8, CXS, Super, Special Edition	2006-11, 9999	04
024	Enclave (2008-12 model years only. For 2013 on see model 421.)	CX, CXL (FWD/AWD)	2008-12, 9999	06
025	Verano	Base, Convenience, Leather, Turbo, Premium, Sport, Touring	2012-18, 9999	04
026	Cascada	1SV, Base, Premium, Sport Touring	2016-19, 9999	01
031	Opel Kadett	--	1965-72, 9999	02, 04, 06, 08, 09

Codes	Models	Includes	Model Years	Body Types
032	Opel Manta	1900, Luxus, Ralley, Sports Coupe	1966-75, 9999	02, 04, 06, 08, 09
033	Opel GT	--	1969-75, 9999	02
034	Opel Isuzu	Deluxe, Sport	1976-79, 9999	02, 04, 08, 09
398	Other (automobile)	--	1965-2019, 9999	01-04, 06, 08, 09
399	Unknown (automobile)	--	1950-2019, 9999	01-04, 06, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Rendezvous	CX, CXL, Ultra, Plus	2002-07, 9999	14
402	Rainier	CXL, CXL Plus	2004-07, 9999	14
404	Encore	Convenience, Leather, Premium, Base, Sport Touring, Preferred (I, II), Essence	2013-19, 9999	14
405	Envision	Preferred, Premium (I, II) Essence, Base	2016-19, 9999	14
421	Enclave (2013 on. See model 024 for 2008-12 model years.)	Convenience, Leather, Premium, Avenir, Essence	2013-19, 9999	15
441	Terraza	CX, CXL	2005-07, 9999	20
498	Other (light truck)	--	2002-07, 2013- 19, 9999	14, 15, 19, 20
499	Unknown (light truck)	--	2002-07, 2013- 19, 9999	14, 15, 19, 20

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (BUICK)	--	1946-2019, 9999	49

MAKE: Cadillac (19) (CADI)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
003	Deville/Fleetwood (except Limousine)	Coupe de Ville, Sedan de Ville, Fleetwood Brougham, Fleetwood 60 Special, d'Elegance, Concours, DHS, DTS	1940-2005, 9999	01, 02, 04, 08, 09
004	Limousine	Fleetwood 75, Formal, Deville-based, DTS	1940-2019, 9999	12
005	Eldorado	Biarritz, El-doro, Touring Coupe, ESC, ETC	1967-2003, 9999	01, 02, 09
006	Commercial Series	Ambulance/Hearse, Professional	1940-2019, 9999	09, 10-12
009	Allante'	--	1987-93, 9999	01, 02, 09
014	Seville	Elegante, STS, SLS	1976-2004, 9999	04
016	Cimarron	D'Oro	1982-88, 9999	04
017	Catera	Sport	1997-2001, 9999	04
018	CTS/CTC	Luxury, Luxury Sport, V-Series, 2.0L, 2.8L, 3.0L, 3.6L, 6.2L Supercharged, Premium, Performance, Standard, Luxury (Base and Premium), V-Sport (Base and Premium Luxury)	2003-19, 9999	02-04, 06, 08, 09
019	XLR	Neiman Marcus Edition, V-Series, Standard, Platinum	2004-09, 9999	01
020	SRX	V6, V8, Sports Package, 2.8L Turbo, 3.0L, Luxury, Performance, Premium, Standard	2004-16, 9999	06
021	STS	V6, V8, V-Series, Luxury, Premium, Standard, Platinum, 3.6L	2005-11, 9999	04

Codes	Models	Includes	Model Years	Body Types
022	DTS	Luxury I, II, III, V8, 3.6L, Performance, Platinum	2006-11, 9999	04
023	XTS	Standard, Luxury, Premium, Platinum, V-Sport, Limousine, Funeral Hearse, Twin Turbo	2013-19, 9999	04, 09, 11, 12
024	ATS	2.0L/2.5L/3.6L (Standard, Luxury, Performance, Premium, Turbo) V-Series	2013-19, 9999	02, 04, 08, 09
025	ELR	--	2014-16, 9999	02
026	CT6	2.0L (Turbo, Luxury) 3.0L (Twin Turbo, Platinum, Luxury), 3.6L (Premium Luxury, Platinum), Plug-In, V- Series	2016-19, 9999	04
398	Other (automobile)	--	1965-2019, 9999	01, 02, 04, 06, 08, 09, 11, 12
399	Unknown (automobile)	--	1950-2019, 9999	01, 02, 04, 06, 08, 09, 11, 12

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	XT5	3.6L (Base, Luxury, Premium, Platinum)	2017-19, 9999	14
421	Escalade/ESV (from 2004 on; see 431 for 2003 only)	4WD, 2WD, 6.2L, Standard, Platinum, Limousine, Hybrid, Luxury, Premium	1999-2000, 2002-19, 9999	15
422	XT4	Luxury, Premium Luxury, Sport	2019	15
431	Escalade ESV (2003 only)	Luxury, Premium, Platinum	2003, 9999	16
480	Escalade EXT (from 2002 - 2006; for 2007 on see 481)	4WD, 2WD	2002-06, 9999	34

Codes	Models	Includes	Model Years	Body Types
481	Escalade EXT (from 2007 on; see 480 for 2002-2006)	4WD, 2WD, Luxury, Premium, Standard	2007-13, 9999	34
498	Other (light truck)	--	1999-2000, 2002-19, 9999	14, 15, 16, 19, 34
499	Unknown (light truck)	--	1999-2000, 2002-19, 9999	19, 39, 49

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (CADILLAC)	--	1940-2019, 9999	49

MAKE: Chevrolet (20) (CHEV)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Chevelle/Malibu (thru '83)	Classic, Concours, Laguna**, S-3, Greenbriar, Estate, 300, SS-396/454, Deluxe	1963-83, 9999	01, 02, 04, 06, 08, 09
002	Impala/Caprice (For SS from 2014 on, use 20- 021.)	Biscayne, Belair, Super Sport, Classic, Classic Brougham, Townsman, Brookwood, Kingswood, LS, LT, LTZ, Sport, SS, Luxury, Premier	1955-96, 2000-19, 9999	01, 02, 04, 06, 08, 09
004	Corvette	Stingray, C5, Z06, Z06-R 50 th Anniversary Edition, Commemorative Edition, Indy Pace Car, ZR1, Grand Sport, 427, 1LZ, 2LZ, 3LZ, ZL1	1953-82, 1984- 2019, 9999	01-03, 09
006	Corvair	Monza, Corsa, 500, Yenko	1960-69, 9999	01, 02, 04, 06, 08, 09
007	El Camino	Royal Knight, SS	1958-94, 9999	10
008	Nova (-'79)	Chevy II, LN, LE, Concours, SS- 350/396, Rally	1962-79, 9999	01-04, 06, 08, 09

Codes	Models	Includes	Model Years	Body Types
009	Camaro	SS, RS, LT, Berlinetta, Iroc-Z, Z/28, LS, LT, ZL1, 2.0L, 3.6L, 6.2L	1967-2002, 2010-19, 9999	01-03, 09
010	Monte Carlo (thru '88)	LS, SS, Aerocoupe, Landau, Z34	1970-88, 9999	02
011	Vega	GT, Cosworth	1971-77, 9999	02-04, 06, 08, 09
012	Monza	Spyder, 2 + 2, Towne Coupe	1974-80, 9999	02-04, 06, 08, 09
013	Chevette	S, Scooter, CS	1976-87, 9999	03-05, 07, 09
015	Citation	X-11, Citation II	1980-85, 9999	02-05, 07, 08, 09
016	Cavalier	CS, RS, Z24, LS, Sport, Special Value Package	1982-2005, 9999	01-04, 06, 08, 09
017	Celebrity	CS, Eurosport, VR	1982-90, 9999	02, 04, 06, 08, 09
019	Beretta/Corsica	GT, GTZ, LT, LTZ, PX, QX, KX, LX, MX, Z26	1982-96, 9999	02, 04, 05, 08, 09
020	Lumina	Z-34, Euro, LTZ, LS	1990-2001, 9999	02, 04, 06, 08, 09
021	SS (For 2014 on. For Impala/Caprice SS use model 20-002.)	LS, LT, LTZ	2014-17, 9999	04
022	Cobalt	LS, LT, LTZ, SS (Base Supercharged), Sport, VL	2005-11, 9999	02, 04, 08, 09
023	HHR	LS, 1LT, 2LT, SS, Panel	2006-11, 9999	06
024	Traverse (2009-2012 only. For 2013 on see model 423.)	LS, LT, LTZ	2009-12, 9999	06
025	Cruze	LS, LT, LTZ, ECO, Turbo Diesel, Limited, Premier	2011-19, 9999	02, 04, 05, 08, 09
026	Volt	Premier, LT	2011-19, 9999	05
027	Caprice PPV	--	2011-17, 9999	04
028	Sonic	Base, LS, LT, LTZ, RS, Premier	2012-19, 9999	04, 05, 09
029	Spark	LS, LT, EV, ACTIV	2013-19, 9999	05

Codes	Models	Includes	Model Years	Body Types
031	Spectrum	--	1985-89, 9999	02-05, 08, 09
032	Nova/Geo Prism/Prism	CL, NUMMI-built vehicles, LSi	1985-2002, 9999	02-05, 07-09
033	Sprint/Geo Sprint	(Cultus - foreign)	1985-89, 9999	03, 05, 07, 09
034	Geo Metro/Metro	Lsi, Xfi	1989-2001, 9999	01, 03-05, 07, 09
035	Geo Storm	Gsi	1985-93, 9999	02, 03, 09
036	Monte Carlo (1995 on)	FWD, LS, Z34, LS, LT, LTZ, SS, Sport Edition	1995-2007, 9999	02
037	Malibu/Malibu Maxx	Base, L, LS, LT, LTZ, SS, Hybrid, ECO, Classic, Limited, Premier	1997-2019, 9999	04-06, 09
038	SSR	Signature Series, LS, LS5, 1SS, 2SS, 3SS	2003-06, 9999	10
039	Aveo/Aveo 5	Base, LS, LT, Special Value	2004-11, 9999	04, 05, 09
040	Bolt	Base, LT, Premier	2017-19, 9999	05
398	Other (automobile)	Fleetmaster, Fleetline, Styline Special, One-fifty, Bel-Air, Del Ray, Biscayne	1930-2019, 9999	01-09, 10-11
399	Unknown (automobile)	--	1930-2019, 9999	01-09, 10-11

****Nomad, Malibu, Laguna, and other similar terms may be used on all models as a reflection of trim type.**

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	S-10 Blazer/TrailBlazer (2002 only; for 2003 on, see 403)	S-10 p/u based, LS, LT, ZR2 TrailBlazer, Xtreme, ZR2, LS, LT, LTZ, EXT	1982-2005, 9999	14
402	Geo Tracker/Tracker	Lsi, LT, ZR2	1989-2004, 9999	14
403	TrailBlazer (from 2003 on; for 2002, see 401)	LS, LT, LTZ, North Face Edition, EXT, SS (LS/LT)	2003-09, 9999	14

Codes	Models	Includes	Model Years	Body Types
404	Equinox	L, LS, LT, LTZ, Sport, Premier, Turbo (Base and Diesel)	2005-19, 9999	14
405	Captiva	Sport, LS, LT, LTZ	2012-15, 9999	14
406	Trax	LS, LT, LTZ, Premier	2015-19, 9999	14
421	Fullsize Blazer/Tahoe	K-series, fullsized p/u based, LS, LT, LTD, LTZ, 4WD, Z71, Hybrid, Premier	1969-2019, 9999	15
422	Suburban (from 2004 on; see 431 for 1950-2003)	LS, LT, LTZ, Z71, Premier	2004-19, 9999	15
423	Traverse (2013 on. For 2009-2012 see model 024.)	L, LS, LT (Cloth, Leather), LTZ, Premier	2013-19, 9999	15
431	Suburban (from 1950-2003; see 422 for 2004 on)	all models (C1500/2500, K1500/2500), LS, LT, Z71	1950-2003, 9999	16
441	Astro Van	Minivan, Cargo, Passenger, LT, LS, Conversion	1985-2005, 9999	20
442	Lumina APV	Minivan, MPV	1990-96, 9999	20
443	Venture	Cargo, Passenger, Plus, LS, LT, Value, Value Plus, Extended, W. B. Edition, Entertainer	1997-2005, 9999	20
444	Uplander	Base, LS, LT, LT (AWD), LT Entertainer	2005-08, 9999	20
445	City Express	LS, LT	2015-18, 9999	20
461	G-series van	Beauville, Chevy Van, Sport Van, G10-G30, Express, G1500/2500/3500, LT, LS	1957-2019, 9999	21, 22, 28, 29
466	P-series van	--	1965-99, 9999	22, 28, 29
470	Van derivative	Parcel Van, Hi-cube	1965-2019, 9999	22, 28, 29

Codes	Models	Includes	Model Years	Body Types
471	S-10/T-10 Pickup	4 x 4, Fleetside, Extended, Crew, LS, S-10, Xtreme, ZR2, ZR5, electric pickup*	1982-2005, 9999	34 , 39 , 40 , 42 , 48
472	LUV	Imported pickup	1972-91, 9999	34 , 39 , 40 , 42 , 48
473	Colorado	Z71, Z85, Sport, LS, LT, Work, Value, Shoreline, Midnight (LT, Z71), Trail Boss	2004-12, 2015- 19, 9999	34
481	C, K, R, V-Series pickup/ Silverado	C10-C30, K10-K30, R10-R30, V10-V30, Silverado: 1500 (C- K, HD), 2500 (C- K, HD), 3500 (CK), ST, LS, LT, Z71, Fleetside, Sportside, CrewCab, SS, Hybrid, LTZ, WT, High Country, Rally ½, Midnight (HD, Base), Realtree, Custom Sport HD, Blackout, Special Ops, High Country	1940-2019, 9999	34 , 39 , 40 , 42
482	Avalanche	1500/2500 Premium, North Face Edition, Z71, Z66, LS, LT, LTZ, Black Diamond	2002-13, 9999	34
498	Other (light truck)	--	1940-2019, 9999	14-16 , 19 , 20-22 , 28 , 29 , 34 , 39 , 40 , 42 , 45 , 48
499	Unknown (light truck)	--	1932-2019, 9999	14-16 , 19 , 20-22 , 28 , 29 , 34 , 39 , 40 , 42 , 45 , 48 , 49

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	Truck-based, Van-based	1949-2019, 9999	65 , 73

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
870	Medium/Heavy Van-Based Vehicle	Express 3500/4500	1957-2019, 9999	55 , 61-64
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs.)	--	1953-2019, 9999	67
881	Medium/Heavy – CBE	C50/60/65; M60/65; H70/80/90; J70/80/90; Bison 90; Kodiak (C4500) all other CBE	1955-2019, 9999	60-64 , 66 , 71 , 72 , 78
882	Medium/Heavy – COE low entry	T60/65, all other COE low entry	1960-2019, 9999	60-64 , 66 , 71 , 72 , 78
883	Medium/Heavy – COE high entry	Titan 90, all other COE high entry	1971-80, 9999	60-64 , 66 , 71 , 72 , 78
884	Medium/Heavy – Unknown engine location	--	1951-2019, 9999	60-64 , 66 , 71 , 72 , 78
890	Medium/Heavy – COE entry position unknown	--	1965-2019, 9999	60-64 , 66 , 71 , 72 , 78
898	Other (medium/heavy truck)	--	1949-2019, 9999	60-64 , 66 , 71 , 72 , 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	S-60 series	1967-2019, 9999	50-52 , 58 , 59
988	Other (bus)	--	1965-2019, 9999	50-52 , 58 , 59
989	Unknown (bus)	--	1965-2019, 9999	50-52 , 58 , 59

** Use code “989” (bus) if the frontal plane or the engine location is unknown.

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1934-2019, 9999	92, 93, 97
999	Unknown (CHEVROLET)	--	1933-2019, 9999	49, 79, 99

MAKE: Chrysler/Daimler Chrysler (06) (CHRY)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
009	Cordoba	Crown, 300, LS	1975-83, 9999	02
010	New Yorker (thru 78)/ Newport/5 th Avenue/ Imperial (1979-83) (excludes all FWD)	Town and Country, Brougham, Custom, Royal, 300 (thru 1971) Frank Sinatra editions (FS), Royal Limo, Windsor Wagon/Ambulance	1946-89, 9999	01, 02, 04, 06, 08, 09, 11, 12
014	New Yorker/E-Class/ Imperial (1990-93)/ Fifth Avenue	FWD vehicles, Turbo, Salon	1980-93, 9999	02, 04, 08, 09
015	Laser	Turbo, XE, XT	1984-86, 9999	03
016	LeBaron	Premium, Salon (RWD), Landau, LX, Town and Country cars and wagon, Medallion, FWD except GTS or GTC Sport Coupe	1977-94, 9999	01-09
017	LeBaron GTS/GTC	GT, GTS-Turbo, GTC-Sport Coupe	1982-95, 9999	01-09
018	200	Limited (Base, Platinum), LX, Touring, S, Super S, C (Base, Platinum)	2011-17, 9999	01, 04, 09
021	SRT Viper	Standard, GTS, TA, GT3-R, GTS-R	2013-14, 9999	02
031	TC (Maserati Sport)	Turbo Convertible	1988-91, 9999	01-03, 09
035	Conquest	TSI, Turbo	1987-89, 9999	03
041	Concorde	LX, Lxi, Limited	1993-2004, 9999	04

Codes	Models	Includes	Model Years	Body Types
042	LHS	New Yorker (1994-on)	1994-97, 1999- 2001, 9999	04
043	Sebring	JX, Jxi, LX, Lxi, GTC, Tsi, Limited, Plus, Platinum, Touring, Signature Series	1995-2011, 9999	01, 02, 04, 08, 09
044	Cirrus	LX, Lxi	1995-2000, 9999	04
050	Executive	Sedan and Limo	1983-87, 9999	04, 09, 11, 12
051	300M/300/300C/300S	Special, Platinum, Touring, Limited, SRT, Signature Series, SRT8, LX, SRT, Heritage, Great American, Walter P. Chrysler, Glacier, Executive Series, Luxury, Motown Edition, John Varvatos Edition	1999-2019, 9999	04
052	PT Cruiser	Base, Touring, Limited, GT, Turbo, Dream Cruiser, Platinum, Series 4, Signature Series, Street Cruiser, Pacific Coast Highway, LX, Sunset Blvd.	2001-10, 9999	01, 06, 09
053	Prowler (for 2002) (1997,1999-01 see Plymouth)	Roadster, Black Tie Edition	2002	01
054	Pacifica (Passenger Cars)	Premium, Luxury, Touring, Signature Series, LX, Hybrid	2004-08, 9999	06
055	Crossfire	Limited, SRT6, Standard	2004-08, 9999	01, 02, 09
398	Other (automobile)	--	1946-2019, 9999	01-09, 11, 12
399	Unknown (automobile)	--	1946-2019, 9999	01-09, 11, 12

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
421	Aspen	Limited, Signature, Hybrid	2007-09, 9999	15

Codes	Models	Includes	Model Years	Body Types
441	Town and Country	Minivan, SX, L, LX, Lxi, Ltd., SWB, LWB, AWD, FWD, eL, eX, Touring, Platinum, Signature Series, Limited, 30th Anniversary, S	1990-2016, 9999	20
442	Voyager (2000 on; 1984- 00 see Plymouth)	Base, Popular, Value, LX, eC	2000-03, 9999	20
443	Pacifica (Light Trucks)	L, LX, Touring (Base, L, L Plus) Limited, Hybrid (Touring, Touring L, Limited)	2017-19, 9999	20
499	Unknown (light truck)	--	1990-2019, 9999	15 , 20 , 29

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (CHRYSLER)	--	1946-2019, 9999	49

MAKE: Coda (26)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Coda	--	2012-13, 9999	04 , 05 , 09
398	Other (automobile)	--	2012-13, 9999	04 , 05 , 09
399	Unknown (automobile)	--	2012-13, 9999	04 , 05 , 09

MAKE: Daewoo (64) (DAEW)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Lanos	S, SE, SX, Sport	1999-2002, 9999	03 , 04 , 09
032	Nubira	SX, CDX, SE	1999-2002, 9999	04 , 06 , 09

Codes	Models	Includes	Model Years	Body Types
033	Leganza	SE, SX, CDX	1999-2002, 9999	04
398	Other (automobile)	--	1999-2002, 9999	03, 04, 05, 06, 07, 09
399	Unknown (automobile)	--	1999-2002, 9999	03-07, 09

MAKE: Daihatsu (60) (DAIH)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Charade	--	1988-94, 9999	03, 04, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Rocky	--	1990-92, 9999	14

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (DAIHATSU)	--	1988-94, 9999	03, 04, 09, 14

MAKE: Dodge (07) (DODG)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Dart (1960-76 only. For 2013 on; see model 029.)	170, 270, Custom, GT, Swinger, Demon, 340, 360, Special, Sport, Special Edition	1960-76, 9999	01, 02, 04, 06, 08, 09
002	Coronet/Magnum/ Charger (thru 1978)	Brougham, Custom, Superbee, 500, Crestwood, Deluxe, XE, R/T, 440, SE, Police	1964-79, 9999	01, 02, 04, 06, 08, 09
003	Polara/Monaco/ Royal Monaco	Custom, Special, Police, Taxi, Crestwood, Brougham	1964-78, 9999	01, 02, 04, 06, 08, 09

Codes	Models	Includes	Model Years	Body Types
004	Viper	RT/10, GTS, ACR, SRT-10, GT, SRT	1992-2010, 2015-17, 9999	01, 02, 09
005	Challenger (1970-74 only; see model 028 for 2008 on)	R/T, T/A, Rallye	1970-74, 9999	01, 02, 09
006	Aspen	Custom, Special Edition, Police, R/T, Sport	1976-80, 9999	02, 04, 06, 08, 09
007	Diplomat	Medallion, S, Salon, SE	1977-89, 9999	02, 04, 06, 08, 09
008	Omni/Charger (1983-87; for 2006 on see vehicle model 024)	024, DeTomaso, Miser, Charger 2.2, GLH, Custom, Shelby, GLHS, America, Expo, SE	1978-90, 9999	03, 05, 07, 09
009	Mirada	--	1980-83, 9999	02
010	St Regis	Police, Taxi	1979-81, 9999	04
011	Aries (K)	Custom, SE, LE	1981-89, 9999	02, 04, 06, 08, 09
012	400	LS	1982-83, 9999	01, 02, 04, 08, 09
013	Rampage (car-based pickup)	2.2, GT, Sport	1982-84, 9999	10
014	600	ES, Turbo, SE	1983-88, 9999	01, 02, 04, 08, 09
015	Daytona	Turbo Z, C/S Competition, Shelby Z/CSX, Pacifica, IROC R/T	1984-93, 9999	03
016	Lancer	Pacifica, Turbo, ES, Shelby	1985-89, 9999	02-09
017	Shadow	ES, Turbo, America	1987-94, 9999	01-03, 05, 07, 09
018	Dynasty	--	1988-93, 9999	02, 04, 08, 09
019	Spirit	ES, Shelby, R/T	1989-95, 9999	01, 02, 04, 08, 09
020	Neon	Competition, Highline, SE, ES, ACR R/T, SRT-4, SXT	1995-2005, 9999	02, 04, 08, 09

Codes	Models	Includes	Model Years	Body Types
021	Magnum	SE, SXT, R/T, SRT8	2005-08, 9999	06
024	Charger (2006 on; see model 008 for 1983-87)	Daytona (Base, 392), SRT8, R/T, SE, SXT (RWD/AWD), Super Bee, 3.5L, Rallye, Plus, Max, Road and Track, Blacktop, 100th Anniversary, Red Line, Road & Track, Scat Pack, SRT 392, SRT, Hellcat, Blacktop	2006-19, 9999	04
025	Caliber	SE, SXT, R/T, SRT4, Sport, Heat, Mainstreet, Rush, Uptown, Express	2007-12, 9999	05
026	Avenger	SE, SXT, R/T, Heat, Express, Blacktop	2008-15, 9999	04
027	Journey (For 2009-2018 only. For model years 2019 on, see 07-404.)	SE, SXT, R/T, Heat, Hero, Uptown, Express, Crew, Mainstreet, Lux, American Value Package, Blacktop, AVP, SXT Plus, Limited, Crossroad (Base, Plus), GT	2009-18, 9999	06
028	Challenger (2008 on; for 1970-74 see model 005)	SRT (392, Hellcat), SE, R/T (Plus, Classic, Scat Pack, Road & Track), Shaker, Plus Shaker, Plum Crazy Edition, Classic, SXT, SXT Plus, Rallye Redline, Blacktop, Shaker, 100th Anniversary, T/A (Base, Plus, 392), 392 Hemi Scat Pack Shaker, SRT (392, HellCat), GT, Demon, Hellcat Redeye	2008-19, 9999	02
029	Dart (2013 on. See model 001 for 1960-1976 model years.)	Limited, Rallye, SE, SXT, Special Edition, Mopar '13, Aero, GT, Blacktop	2013-16, 9999	04
033	Challenger	all import	1978-83, 9999	02
034	Colt (includes 2WD Vista)	GT, Custom, Carousel, Premier, Deluxe, E, DL, GTS, Turbo, RS	1974-94, 9999	02-09

Codes	Models	Includes	Model Years	Body Types
035	Conquest	Turbo	1984-89, 9999	03
039	Stealth	RT, ES	1991-96, 9999	02, 03, 09
040	Monaco	--	1990-92, 9999	02, 04, 08, 09
041	Intrepid	ES, R/T, S, SE, SXT	1993-2004, 9999	04
042	Avenger (see model 026 for 2008 on)	ES	1995-2000, 9999	02
043	Stratus	ES, SE, R/T, Plus, SXT	1995-2007, 9999	02, 04, 08, 09
398	Other (automobile)	--	1946-2019, 9999	01-09, 10, 12
399	Unknown (automobile)	--	1946-2019, 9999	01-09, 10, 12

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	RaiderSport	Sport	1986-94, 9999	14
402	Durango (1998-2003 only; see model 422 for 2004 on)	Sport, R/T, SLT, SXT, Plus, Blacktop	1998-2003, 9999	14
403	Nitro	SLT, SXT, R/T, SE, Heat, Detonator, Shock	2007-11, 9999	14
404	Journey (For 2019 on. For model years 2009-2018, see 07-027.)	SE, SXT, GT, Crossroads	2019	14
421	Ramcharger	--	1974-93, 9999	15
422	Durango (2004 on; see 402 for 1998-2003 models)	ST, SLT, Limited, SXT (Base, Plus), Adventurer, Hybrid, Express, Crew, LUX, Citadel, R/T, Blacktop, Plus, Rallye, GT (Base, Plus)	2004-19, 9999	15
441	Vista Van	4x4 (Only)	1984-91, 9999	20

Codes	Models	Includes	Model Years	Body Types
442	Caravan/Grand Caravan	Mini Ram Van, 112 & 19 WB, SE, ES, LE, Sport, EX, eC, eL, AWD, Sport, EPIC-elec* SXT, C/V, Special Edition, Cargo, Hero, American Value Package, R/T, Crew, Blacktop, AVP, 30th Anniversary, SE Plus, SXT Plus	1984-2019, 9999	20
443	Ram C/V	Tradesman	2013-17, 9999	20
444	Promaster City	Cargo, Passenger, Tradesman (Base, SLT), Wagon (Base, SLT)	2015-19, 9999	20
461	B-Series Van/Ram Van/ Ram Wagon	Sportsman, Royal, Maxiwagon, Ram, B1500-B3500, Tradesman, Ram Maxivan (1500, 2500, 3500), Ram Wagon (1500, 2500, 3500) Conversion, Cargo Van (1500: van, non-maxi van, maxi van; 2500: non-maxi, maxi van; 3500: non-maxi), Dodge Wagon (1500, 2500, 3500)	1963-2003, 9999	21, 28, 40, 41, 42, 48
462	Sprinter	Cargo, Passenger	2003-09, 9999	21, 28
463	Ram Promaster	Cargo, Chassis, Cutaway, 1500 (Low Roof, High Roof), 2500 (Low Roof, High Roof), 3500 (Low Roof, High Roof)	2014-19, 9999	21, 28
470	Van Derivative	Kary Van, Parcel Van	1971-2019, 9999	28, 29
471	D50, Colt pickup, Ram 50/Ram 100	--	1979-93, 9999	34, 39
472	Dakota	R/T, Limited Edition, Quad Cab, Club Cab, Plus, SLT, ST, SXT, Sport, Laramie, TRX, SE, Big Horn, Lone Star, TRX4	1987-2012, 9999	33, 34, 39, 40

Codes	Models	Includes	Model Years	Body Types
481	D, W-Series pickup	Custom, Royal, Ram, Miser, D100-D350, W100-W350	1955-93, 9999	34 , 39 , 40 , 42
482	Ram Pickup	1500 (Limited, Longhorn, Rebel, Laramie, Sport, Big Horn, SLT, Express, ST, Black, Tradesman, EcoDiesel, Outdoorsman, Stinger Yellow, Night, Eco Diesel) 2500 (Limited, Laramie, Longhorn, Power Wagon, Big Horn, ST, SLT, Outdoorsman, Tradesman), 3500 (Limited, Laramie, Longhorn, Power Wagon, Big Horn, ST, SLT, Outdoorsman, Tradesman), Quad Cab, SLT, SLT+, ST, SRT- 10, Laramie, Bumble Bee, Power Wagon, Daytona, TRX Off-Road, Sport, Black Ram, Red Wings Edition, Lone Star, Limited Tungsten, Hydro Blue, Harvest, Sublime Green, Kentucky Derby Edition, South Fork Edition	1994-2019, 9999	34 , 39 , 40 , 42
498	Other (light truck)	--	1979-2019, 9999	14 , 15 , 19 , 20 , 22 , 28 , 29 , 33 , 34 , 39 , 40 , 41 , 42 , 45 , 48
499	Unknown (light truck)	--	1949-2019, 9999	14 , 15 , 19 , 20 , 22 , 28 , 29 , 33 , 34 , 39 , 40 , 41 , 42 , 45 , 48 , 49

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	Truck-based, Van-based	1952-2019, 9999	65 , 73

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
870	Medium/Heavy Van-Based Vehicle	Sprinter, Promaster	1971-2009, 2014-19, 9999	55 , 61-64
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs.)	--	1953-2019, 9999	67
881	Medium/Heavy – CBE	--	1966-2019, 9999	60-64 , 66 , 71 , 72 , 78
882	Medium/Heavy – COE low entry	--	1967-77, 9999	60-64 , 66 , 71 , 72 , 78
883	Medium/Heavy – COE high entry	--	1967-77, 9999	60-64 , 66 , 71 , 72 , 78
884	Medium/Heavy – Unknown engine Location	--	1962-2019, 9999	60-64 , 66 , 71 , 72 , 78
890	Medium/Heavy – COE entry position unknown	--	1965-77, 9999	60-64 , 66 , 71 , 72 , 78
898	Other (medium/heavy truck)	--	1930-2019, 9999	60-64 , 66 , 71 , 72 , 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	(not van-based)	1966-77, 9999	50-52 , 58 , 59
988	Other (bus)	--	1965-77, 9999	50-52 , 58 , 59
989	Unknown (bus)	--	1965-77, 9999	50-52 , 58 , 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2019, 9999	92 , 93 , 97
999	Unknown (DODGE)	--	1952-2019, 9999	49 , 79 , 99

MAKE: Eagle* (10) (EGIL)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
034	Summit (excludes wagon)	DL, LX, ES, ESi	1989-96, 9999	02-04, 08, 09
037	Talon	FWD, Tsi, Tsi-FWD, Esi	1990-98, 9999	02, 03, 09
040	Premier	LX, ES, ES Limited	1988-92, 9999	02, 04, 08, 09
041	Vision	Esi, Tsi	1993-97, 9999	04
044	Medallion	DL, LX	1988-89, 9999	04, 06, 09
045	Summit Wagon	FWD, AWD, DX, LX (Mitsubishi)	1992-96, 9999	06
398	Other (automobile)	--	1988-98, 9999	02-04, 06, 08, 09
399	Unknown (automobile)	--	1988-98, 9999	02-04, 06, 08, 09

*NOTE: Eagle model listed under [American Motors](#).

MAKE: Fiat (36) (FIAT)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	124 (Coupe/Sedan)	Sport	1967-75, 9999	01, 02, 04, 06, 08, 09
032	124 Spider/Racer	Spider 2000/1500	1968-83, 9999	01, 02, 09
033	Brava/131	--	1975-82, 9999	02, 04, 06, 08, 09
034	850 (Coupe/Spider)	--	1967-73, 9999	01, 02, 09
035	128	--	1972-79, 9999	01, 02, 04, 06, 08, 09
036	X-1/9	--	1975-83, 9999	01, 02, 09
037	Strada	--	1979-83, 9999	03, 05, 07, 09
038	500/500c	Abarth, Pop, Sport, Lounge, e, Cabrio, Turbo, Cattiva, Gucci, eSport, GQ Edition, 1957 Edition	2012-19, 9999	02, 03, 09
039	124 Spider	Classica, Abarth	2017-19, 9999	01

Codes	Models	Includes	Model Years	Body Types
398	Other (automobile)	600, 1100	1967-83, 2011- 19, 9999	01-09
399	Unknown (automobile)	--	1967-83, 2011- 19, 9999	01-09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	500L	Pop, Easy, Trekking, Lounge, Urbana	2014-19, 9999	14
402	500X	Pop, Easy, Trekking, Lounge, Trekking Plus	2016-19, 9999	14
499	Unknown (light truck)	--	2014-19, 9999	14, 19

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
882	Medium/Heavy – COE low entry	--	1967-83, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	--	1967-83, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1967-83, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1967-83, 9999	60-64, 66, 71, 72, 78

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1967-83, 9999	92, 93, 97
999	Unknown (FIAT)	--	1967-83, 2011- 19, 9999	99

MAKE: Ford (12) (FORD)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Falcon	FuturaSprint, GT, Futura	1960-70, 9999	02, 04, 06, 08, 09
002	Fairlane	Torino (1968-70), 500, Brougham	1955-70, 9999	01, 02, 04, 06, 08, 09
003	Mustang/Mustang II	Mach (I), Boss (302), Grande, Cobra (SVT), Ghia, SVO, GT (Premium, Base, Cal Spec. Pkg.), LX, Shelby (GT350, GT350R, GT500, GT500KR), Deluxe, Premium, Bullitt, V6 (Base, Premium, Pony), Fastback (V6, GT, Premium, Ecoboost)	1964-2019, 9999	01-03, 09
004	Thunderbird (all sizes)	Landau, Heritage, Turbo coupe, Elan, Fila, Sport, LX, SC, Deluxe, Premium, Pacific Coast Edition, 50 th Anniversary Edition	1955-98, 2002- 05, 9999	01, 02, 04, 08, 09
005	LTD II	S, Squire, Brougham	1977-79, 9999	02, 04, 06, 08, 09
006	LTD/Custom/Galaxy (all sizes)	XL, Landau, Ranch Wagon, Country Squire, S, 500, Brougham, XL, GT	1963-86, 9999	01, 02, 04, 06, 08, 09
007	Ranchero	Falcon/Fairlane based Torino/LTD II based	1960-79, 9999	10
008	Maverick	Grabber	1969-78, 9999	02, 04, 08, 09
009	Pinto	Pony, MPG, ESS	1971-80, 9999	02, 03, 06, 09
010	Torino/Gran Torino/Elite	GT, Cobra, Sport, Squire, Brougham	1971-76, 9999	01, 02, 04, 06, 08, 09
011	Granada	ESS, Ghia	1975-82, 9999	02, 04, 06, 08, 09
012	Fairmont	Futura, Sport Coupe	1978-83, 9999	02, 04, 06, 08, 09

Codes	Models	Includes	Model Years	Body Types
013	Escort/EXP/ZX2	L, GL, GLX, SS, GT, LX, LXE, SE, ZX2, Deluxe, Premium, Standard	1981-2003, 9999	02-09
015	Tempo	L, GL, GLX, Sport, 4X4	1984-94, 9999	02, 04, 08, 09
016	Crown Victoria (For 2011 on, code as vehicle model 398)	LX, LTD Crown Victoria, LX Sport	1981-2011, 9999	02, 04, 06, 08, 09
017	Taurus/Taurus X	MT-5, L, GL, LX, SHO, G, SE, SVG, SES, SEL, Limited, Eddie Bauer, Police Interceptor	1986-2019, 9999	04, 06, 09
018	Probe	GL, LX, GT	1988-97, 9999	03
021	Five Hundred	SE, SEL, Limited	2005-07, 9999	04
022	Freestyle	SE, SEL, Limited	2005-07, 9999	06
023	Fusion	I4 S/SE/SEL, V6 SE/SEL, S, SE, Sport, Hybrid (S, SE, Platinum, Titanium), Titanium (Hybrid, Energi) Energi (SE, Platinum, Titanium), Platinum	2006-19, 9999	04
024	Edge (For model years 2007-2018 only. For model years 2019 on, see 12-424.)	SE, SEL, SEL Plus, Limited, Sport, Titanium, ST	2007-18, 9999	06
025	Flex	SE, SEL, Limited, Titanium	2009-19, 9999	06
026	City	--	2000-02, 9999	02, 04, 08, 09, 94
027	C-Max	Hybrid (SE, Titanium), Energi, SE, SEL	2013-18, 9999	05
031	English Ford	Cortina, Anglia, Zephyr/ Zodiac Mark III	1946-70, 9999	02, 04, 06, 08, 09
032	Fiesta	Sport, Ghia, S, SE, SES, SEL, Titanium, ST	1978-80, 2011- 19, 9999	03-05, 09
033	Festiva	L, GL	1988-93, 9999	03
034	Laser	--	1993-94, 9999	02, 03, 09

Codes	Models	Includes	Model Years	Body Types
035	Contour	Sport, LX, SE, SVT	1994-2001, 9999	04
036	Aspire	--	1994-97, 9999	03, 05, 07, 09
037	Focus	ZX3, LX, SE, ZTS, SVT, ZX4, ZX4 ST, ZX5, ZXW, S, SES, SEL, SE, Titanium, Electric, ST, RS	2000-19, 9999	02-06, 08, 09
038	GT	--	2004-08, 2018- 19, 9999	01, 02, 09
398	Other (automobile)	Deluxe, Ford Six, Mainline, Crestline, Futura, Galaxie, Model A	1923-2019, 9999	01-09, 10, 11, 94
399	Unknown (automobile)	--	1923-2019, 9999	01-09, 10, 11, 94

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Bronco (thru 1977)/ Bronco II/Explorer/ Explorer Sport (Explorer for 1990- 2018 only. For model years 2019 on, see 12- 425.)	Eddie Bauer, XL, XLT, Explorer (1990 on) XLS, Explorer Sport (Value, Choice Premium), NBX, Adrenalin, Ironman, Police Interceptor, Base, Limited, Platinum	1966-77, 1983- 2018, 9999	14
402	Escape	XLS (Value, Sport, V6 Choice/Premium), XLT (Choice, Premium, Sport), Hybrid (Base, Limited), No Boundaries, Limited, S, SE, SEL, Titanium	2001-19, 9999	14
403	EcoSport	S, SE, SES (Black Appearance Package)	2018-19, 9999	14
421	Bronco-full-size (1978-on)	Eddie Bauer, Custom, XL, XLT	1978-96, 9999	15

Codes	Models	Includes	Model Years	Body Types
422	Expedition	EL, XLS, XLT (4x4, 4x2), Eddie Bauer (4x4, 4x2), NBX, Sport, NBX, Limited, King Ranch, Funk Master Flex Edition, XL, Platinum, XLT MAX, Limited MAX, Platinum MAX, Special Edition	1996-2019, 9999	15
423	Excursion	XLT, Limited (LTD), Ultimate, Premium, XLS, Eddie Bauer	2000-05, 9999	16
424	Edge(For 2019 on. For model years 2007-2018, see 12-024.)	E, SEL, ST, Titanium	2019	15
425	Explorer (For 2019 on. For model years 1990-2018 see 12-401.)	XLT, Limited, Sport, Platinum	2019	15
441	Aerostar	XLT, Cargo Van	1985-97, 9999	20
442	Windstar	GL, LX, XLT, Splash, Cargo Limited, SE, SEL	1995-2003, 9999	20
443	Freestar	Base, LX, SE, S, SEL, SES, Limited	2004-07, 9999	20
444	Transit Connect	XL, (Van, Wagon), XLT (Van, Wagon), Premium, EV, Titanium	2010-19, 9999	20
461	E-Series Van/Econoline	Clubwagon (XL, XLT), Chateau, (XL, XLT), Parcel Van, Econoline Wagon E-150 (XL/XLT/Premium); E-350 XL/XLT/Extended), E-250 (EXT)	1960-2019, 9999	21, 22, 28, 29
462	Transit	Van, Wagon (XL, XLT)	2014-19, 9999	21, 28, 29
470	Van Derivative	--	1960-2019, 9999	28, 29

Codes	Models	Includes	Model Years	Body Types
471	Ranger	Supercab, 4x4, STX, SL, SLT, Splash, XL (Standard/Super Cab), XLT, Tremor (Standard/Super Cab/Off-Road/FX4), Edge (Regular/ Super Cab), EV* (electric), Level II, Sport	1982-2012, 2019, 9999	34 , 39 , 40 , 42
473	Explorer Sport Trac	2WD/4WD, Value, Choice, Premium, XLS, XLT, Adrenalin, Limited	2001-11, 9999	34
481	F-Series pickup	F100, F150-F350, (XL, XLT, Crew Cab, Super Cab, Regular Cab, Lariat, Super Duty, Flareside, Styleside, SVT Lightning, Fireside, Harley- Davidson Edition, King Ranch, SuperCrew, STX, Heritage Edition, Sport Edition, FX4, FX2), F450 (10,000 GVWR and under) (see model 880 for F450 >10,000 GVWR), Amarillo Package, Platinum, Cabala's, STX, SVT Raptor, Limited	1940-2019, 9999	34 , 39 , 40 , 42
498	Other (light truck)	--	1972-2019, 9999	14-16 , 19 , 20 , 21 , 28 , 29 , 34 , 39 , 40 , 41 , 42 , 45 , 48
499	Unknown (light truck)	--	1928-2019, 9999	14-16 , 19 , 20-22 , 28 , 29 , 34 , 39 , 40 , 41 , 42 , 45 , 48 , 49

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	Truck-based, F-550, Van-Based (E Series)	1956-2019, 9999	65 , 73

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
870	Medium/Heavy Van-Based	Econoline E350, E450, Transit	1956-2019,	55 , 61-64
	Vehicle		9999	
880	Medium/Heavy Pickup	Super Duty 350, F450/550,	1953-2019,	67
	(pickup-style only – over	Lariat, XL, XLT, King Ranch	9999	
	10,000 lbs.)			
881	Medium/Heavy – CBE	F-5 thru F-8, L-series, FT-	1953-2019,	60-64 , 66 , 71 , 72 ,
		series, Super Duty F-Series:	9999	78
		450/550/650/750/800 (does		
		not include pickup style)		
882	Medium/Heavy – COE low	C/CT series, LCF	1964-2009,	60-64 , 66 , 71 , 72 ,
	entry		9999	78
883	Medium/Heavy – COE high	C/CLT series, LCF	1967-1996,	60-64 , 66 , 71 , 72 ,
	entry		9999	78
884	Medium/Heavy –	--	1956-2019,	60-64 , 66 , 71 , 72 ,
	Unknown engine location		9999	78
890	Medium/Heavy – COE	--	1956-2019,	60-64 , 66 , 71 , 72 ,
	entry position unknown		9999	78
898	Other (medium/heavy truck)	--	1965-2019, 9999	60-64 , 66 , 71 , 72 , 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	B-series (not van-based), F- Series	1964-2019, 9999	50, 52, 58, 59
988	Other (bus)	--	1940-2019, 9999	50, 52, 58, 59
989	Unknown (bus)	--	1940-2019, 9999	50, 52, 58, 59

** Use code “989” (bus) if the frontal plane or the engine location is unknown.

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1940-2019, 9999	92, 93, 97
999	Unknown (FORD)	--	1923-2019, 9999	49, 79, 99

MAKE: GMC (23) (GMC)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
007	Caballero	--	1965-87, 9999	10
008	Acadia (2007-2012 only. For 2013 on see model 423.)	SLE, SLT, Denali, SL	2007-12, 9999	06
399	Unknown (automobile)	--	1965-2012, 9999	06, 10

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Jimmy/Typhoon/Envoy	S-15 based, (100.5 WB), T15, SLE, SL, SLS, SLT, XL, XUV, Denali	1983-2009, 9999	14
402	Terrain	SL, SLE, SLT, Denali, Diesel (SLE, SLT)	2010-19, 9999	14

Codes	Models	Includes	Model Years	Body Types
421	Full-size Jimmy/Yukon	Fullsize pickup based, K5, K18, SL, SLE, SLT, SLS, Diamond Edition, Yukon Denali, Denali, Hybrid, Premium Edition, Graphite Edition	1969-2019, 9999	15
422	Suburban/Yukon XL (2004 on; see 431 for 1950- 2003)	Yukon XL (Denali - 1500- 2500), SLE, SLT, Hybrid	2004-19, 9999	15
423	Acadia (2013 on. For 2007-2012 see model 008.)	FWD/AWD, Denali, SL, SLE, SLT, All Terrain	2013-19, 9999	15
431	Suburban/Yukon XL (1950- 2003 only; see 422 for 2004 on)	all models, SLE, C16, C26, K16, K26, C1500-2500, K1500-2500, Yukon XL (Denali - 1500-2500)	1950-2003, 9999	16
441	Safari (Minivan)	SLT, SLX, SLE, M15, L15, SL	1985-2005, 9999	20
461	G-series van/Savana	Rally Van, Bandura, G15-G35, Savana (G1500-3500) SLT, Extended, SLE, LS, LT, Uplifter, WT, Cargo	1965-2019, 9999	21, 22, 28, 29
466	P-series van	--	1965-2019, 9999	22, 28, 29
470	Van derivative	Hicube, Magna Van, Value Van, Parcel Van	1965-2019, 9999	28, 29
471	S15/T15/Sonoma	4 X 4, Syclone, SL, SLS, SLE, Extended/Crew Cab, ZR2, ZRX, ZR5	1982-2004, 9999	34, 39, 40, 42
472	Canyon	Base, SLE, SL, SLT, Z71, Z85, Work Truck, Crew Cab, Extended Cab, Denali, All Terrain	2004-19, 9999	34

Codes	Models	Includes	Model Years	Body Types
481	C, K, R, V-series pickup/ Sierra	Excluding Yukon, C15-C35, K15-K35, R15-R35, V15-V35, Sierra, C/K1500, 2500, 3500, Sportside, X81, SL, Special, SLE, Classic, Extended Cab, Denali, 1500HD/2500HD/3500HD, C3, Hybrid, SLT, Work Truck, 5SA	1940-2019, 9999	34 , 39 , 40 , 42
498	Other (light truck)	--	1930-2019, 9999	14-16 , 19 , 20-22 , 28 , 29 , 34 , 40 , 42 , 45 , 48
499	Unknown (light truck)	--	1951-2019, 9999	14-16 , 19 , 20-22 , 28 , 29 , 34 , 39 , 40 , 42 , 45 , 48 , 49

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1950-2019, 9999	65 , 73

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
870	Medium/Heavy Van-Based Vehicle	Savana 3500, 4500	1965-2019, 9999	55 , 61-64
880	Medium/Heavy Pickup (pickup-style only – over 10,000 lbs.)	--	1953-2019, 9999	67
881	Medium/Heavy – CBE	W5000/6000/7000 series, Kodiak Brigadier/General models, Top Kick	1967-2019, 9999	60-64 , 66 , 71 , 72 , 78
882	Medium/Heavy – COE low entry	W6000/W7000, all other COE, low entry, W/WT Series	1968-2019, 9999	60-64 , 66 , 71 , 72 , 78
883	Medium/Heavy – COE high entry	Astro 95, all other COE, high entry, T Series	1969-2010, 9999	60-64 , 66 , 71 , 72 , 78

Codes	Models	Includes	Model Years	Body Types
884	Medium/Heavy – Unknown engine location	--	1948-2019, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1967-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1930-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	B6000	1950-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1965-2019, 9999	50, 58, 59
989	Unknown (bus)	--	1950-2019, 9999	50-52, 58, 59

** Use code “989” (bus) if the frontal plane or the engine location is unknown.

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2019, 9999	92, 93, 97
999	Unknown (GMC)	--	1940-2019, 9999	49, 79, 99

MAKE: Grumman/Grumman-Olson (25) (GRUM)**LIGHT TRUCKS**

Codes	Models	Includes	Model Years	Body Types
401	LLV	Postal vehicle	1987-2004, 9999	22
441	Step-in van	Multi-stop, step van	1987-2004, 9999	22
498	Other (light truck)	--	1987-2004, 9999	22

Codes	Models	Includes	Model Years	Body Types
499	Unknown (light truck)	--	1987-2004, 9999	22

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	--	1987-2004, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	--	1987-2004, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy - COE high entry	--	1987-2004, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy - engine location unknown	--	1987-2004, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy - entry position unknown	--	1987-2004, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1987-2004, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
983	Bus**: Flat front, rear engine	Transit	1950-2004, 9999	50-52, 58, 59
988	Other (bus)	--	1950-2004, 9999	50-52, 58, 59
989	Unknown (bus)	--	1950-2004, 9999	50-52, 58, 59

** Use code “989” (bus) if the frontal plane or the engine location is unknown.

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (GRUMMAN/GRUMMAN-OLSON)	--	1950-2004, 9999	79, 99

MAKE: Honda (37) (HOND)[\(Acura: See "54"\)](#)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Civic/CRX, del Sol	1300, 1500, CVCC, DX, EX, VX, CX, FE, CRX, CRX Si, S, Si, HF, LX, 4WD Wagon, GX (NGV), HX, VTEC, VP, Si, Civic, Hybrid, Special Edition, EX-L, DX-VP, LX-S, Natural Gas, Sport, Sport Touring, EX-T, LX-P, Touring, Type R	1973-2019, 9999	02-09
032	Accord	LX (V-6, ULEV), LXI, DX, CVCC, SE-I, LX-I, V-6, SJE, SME, SMH, SMK, EX (Wagon, ULEV, V-6), SE (ULEV), Special Edition, Hybrid (Base, EX-L, Touring), Value Package, LX-S, LX-P, EX-L, Crosstour (EX, EX-L, EX[V6], EX-L [V6]), Premium, Plug-In Hybrid, Sport, Hybrid (EX-L, Touring), Touring, Sport Special Edition, EX-T	1976-2019, 9999	02-09
033	Prelude	S, Si, VTEC, SNF, SH, SE	1979-2001, 9999	02
034	600	Coupe, Sedan	1968-72, 9999	02
035	S2000	Roadster, CR	2000-09, 9999	01

Codes	Models	Includes	Model Years	Body Types
036	EV Plus*	*Electric vehicle (EV+)	1997-2000, 9999	03
037	Insight	*(Gasoline-Electric), MT/CVT, LX, EX, Touring	2000-06, 2010- 14, 2019, 9999	03, 04, 05, 09
038	FCX/Clarity	Hydrogen Vehicle, Clarity, Electric, Fuel Cell	2004-14, 2017- 19, 9999	03, 05, 09
039	Fit	Base, DX, LX, Sport, EV, EX, EX-L	2006-19, 9999	05
041	CR-Z	EX, Hybrid, Sport, LX, EX-L	2010-16, 9999	03
398	Other (automobile)	--	1968-2019, 9999	01-09
399	Unknown (automobile)	--	1968-2019, 9999	01-09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Passport	LX, EX, DX, EX-L	1994-2002, 9999	14
402	CR-V	LX, EX, Special Edition (SE), SC, EX-L, Touring	1997-2019, 9999	14
403	Element	DX, EX, EX-P, LX, SC, Dog Friendly	2003-11, 9999	14
404	HR-V	EX, EX-L, LX	2016-19, 9999	14
421	Pilot	EX, EX-L, LX, SE, Value Package, Touring, Elite	2003-19, 9999	15
441	Odyssey	LX, EX, EX-L (Res, NAVI), Touring, Touring Elite, SE, Special Edition	1995-2019, 9999	20
471	Ridgeline	RT, RTL, RTL-T, RTL- E, RTS, RTX, Sport, Black Edition	2006-14, 2017- 19, 9999	34

Codes	Models	Includes	Model Years	Body Types
499	Unknown (light truck)	--	1994-2019, 9999	14 , 15 , 19 , 20 , 34 , 49

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
701	0-50 cc	--	1978-2019, 9999	80 , 81 , 83 , 84 , 88 , 89
702	51-124 cc	--	1965-2019, 9999	80 , 81 , 83 , 84 , 88 , 89
703	125-349 cc	--	1965-2019, 9999	80 , 83 , 84 , 88 , 89
704	350-449 cc	--	1965-2019, 9999	80 , 83 , 84 , 88 , 89
705	450-749 cc	--	1970-2019, 9999	80 , 83 , 84 , 88 , 89
706	750 cc or greater	--	1970-2019, 9999	80 , 82 , 83 , 84 , 87 , 88 , 89
709	Unknown cc	--	1965-2019, 9999	80 , 81 , 83 , 84 , 88 , 89

ALL TERRAIN VEHICLES

Codes	Models	Includes	Model Years	Body Types
732	51-124cc	--	1972-2019, 9999	90 , 96
733	125-349cc	--	1972-2019, 9999	90 , 96
734	350cc or greater	--	1996-2019, 9999	90 , 96
739	Unknown cc	--	1972-2019, 9999	90 , 96

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1968-2019, 9999	95 , 97
999	Unknown (HONDA)	--	1965-2019, 9999	49 , 99

MAKE: Hyundai (55) (HYUN)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Pony	Pony Excel (Foreign)	1979-88, 9999	02, 03, 09
032	Excel	GL, GLS, GS	1984-94, 9999	03-05, 07, 09
033	Sonata	GL, GLS, LX, SE, Limited, Hybrid (SE, Limited), 2.0T (Sport, Limited), Sport, Eco, Plug-in	1989-2019, 9999	04
034	Scoupe	LS, Turbo	1991-95, 9999	02
035	Elantra	GLS, GL, GT, Limited, SE, Touring (GLS, SE), GS, Sport, Value Edition, ECO, SEL	1992-2019, 9999	02, 04-06, 08, 09
036	Accent	L, GL, GS, Gsi, GT, GLS, SE, Blue, Sport, Limited, Value Edition, SEL	1995-2019, 9999	03-05, 07, 09
037	Tiburon	FX, GT, GS, SE, Limited	1997-2008, 9999	02, 03, 09
038	XG300(2001)/ XG350 (2002 on)	L	2001-05, 9999	04
039	Azera (For 2018 on, code as vehicle model 398)	SE, Limited, GLS	2006-17, 9999	04
040	Equus	Signature, Ultimate	2011-16, 9999	04
041	Genesis (For 2009- 2016 only. For model years 2017 on, see 55- 043, 55- 044, and 55- 046)	3.8, 4.6, 2.0T, R-Spec, Grand Touring, Premium, Track, 5.0 R- Spec, Ultimate	2009-16, 9999	02, 04, 08, 09
042	Veloster	Base, Turbo, Re-Mix, R- Spec, RE-FLEX Edition, Rally Edition, N,	2012-17, 2019, 9999	03, 09

Codes	Models	Includes	Model Years	Body Types
		Premium, Turbo, Ultimate		
043	Genesis (G80)	Standard, Premium, Sport, Ultimate (RWD/AWD)	2017-19, 9999	04
044	Genesis (G90)	Premium, Ultimate (RWD/AWD)	2017-19, 9999	04
045	Ioniq	Electric, Hybrid, Plug-In Hybrid	2017-19, 9999	05
046	Genesis (G70)	Standard, Premium	2019	04
398	Other (automobile)	Azera (2018 on)	1984-2019, 9999	02-09
399	Unknown (automobile)	--	1984-2019, 9999	02-09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Santa Fe	GL, GLS, LX, Limited (Base, Ultimate), SE (Base, Ultimate), Sport (Base, 2.0T Ultimate), 2.0T	2001-19, 9999	14
402	Tucson	GL, GLS, LX, Limited, SE, Fuel Cell, ECO, Sport	2005-19, 9999	14
403	Veracruz (2007 only)	GLS, Limited, SE	2007	14
404	Kona	EV	2018-19, 9999	14
405	Nexo	Fuel Cell	2019	14
421	Veracruz (2008 on; see 403 for 2007 only)	GLS, Limited, SE	2008-12, 9999	15
441	Entourage	GLS, Limited, SE	2007-09, 9999	20
499	Unknown (light truck)	--	2001-19, 9999	14, 15, 19, 20

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (HYUNDAI)	--	1979-2019, 9999	49, 99

MAKE: Imperial (08) (CHRY)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
010	Imperial	LeBaron, Mark Cross, Crown Imperial	1954-75, 9999	01, 02, 04, 08, 09
398	Other (automobile)	--	1965-75, 9999	01-09
399	Unknown (automobile)	--	1965-75, 9999	01-09

MAKE: Infiniti (58) (INFI)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	M30	--	1990-92, 9999	01, 02, 09
032	Q45	Standard Touring, Q45t, Luxury, Sport, Premium	1990-2006, 9999	04
033	G20	G20t, Touring, Standard, Luxury	1991-96, 1999- 2002, 9999	04
034	J30	--	1993-97, 9999	04
035	I30	Standard, Touring, Luxury	1996-2001, 9999	04
036	I35	Touring, Luxury	2002-04, 9999	04
037	G25/G35/G37	x, 6MT, Journey, Sport, Special Edition, IPL	2003-13, 9999	01, 02, 04, 08, 09
038	M35/M37/M45/M56	Sport, x, Hybrid	2003-13, 9999	04

Codes	Models	Includes	Model Years	Body Types
039	FX35/FX37/FX45/FX50	--	2003-13, 9999	06
040	EX35	Journey	2008-13, 9999	06
041	Q50	Base (3.7 Premium/AWD/ Hybrid) S (3.7 Premium/ AWD/Hybrid), Eau Rogue, 2.0t (AWD, Premium, Sport, Pure, Luxe), 3.0t (Premium, Sport, Luxe, AWD), Red Sport 400, Hybrid (Base, Premium, Luxe)	2014-19, 9999	04
042	Q60	Journey, AWD, 6MT, IPL (Base and 6MT), S, Neiman Marcus, 2.0t (Base, AWD, Premium, Pure, Luxe), 3.0t (Premium, AWD, Luxe, Sport), Sport (Base, AWD), Red Sport 400 (Base, AWD)	2014-19, 9999	01, 02, 09
043	Q70	Hybrid, 3.7 (Base, Luxe, AWD), 5.6 (Base, Luxe, AWD) L 3.7 (Base, Luxe, AWD), 5.6 (Base, Luxe, AWD)	2014-19, 9999	04
044	QX50	Base, AWD, Journey	2014-19, 9999	06
045	Q40	--	2015-16, 9999	04
047	QX30	Luxury, Premium, Sport	2017-19, 9999	05
398	Other (automobile)	--	1990-2019, 9999	01, 02, 04, 06, 08, 09
399	Unknown (automobile)	--	1990-2019, 9999	01, 02, 04, 06, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	QX4	Luxury	1997-2003, 9999	14
402	JX35	Luxury, AWD	2013	14
403	QX60	3.5, AWD, Hybrid, Limited	2014-19, 9999	14
404	QX70	3.7, 5.0, AWD	2014-17, 9999	14
421	QX56	--	2004-13, 9999	15
422	QX80	Base, AWD, 4WD, Limited	2014-19, 9999	15
499	Unknown (light truck)	--	1997-2019, 9999	14, 15, 19

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (INFINITI)	--	1990-2019, 9999	49, 99

MAKE: Isuzu (38) (ISU)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	I-Mark	S, RS, Turbo, DOHC	1981-90, 9999	02-04, 08, 09
032	Impulse	Turbo, RS	1983-92, 9999	02, 03, 09
033	Stylus	--	1991-94, 9999	04
398	Other (automobile)	--	1981-94, 9999	02-04, 08, 09
399	Unknown (automobile)	--	1981-94, 9999	02-04, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Trooper/Trooper II	Deluxe, LS, S, LTD	1984-2002, 9999	14
402	Rodeo/ Rodeo Sport	S, LS, LSE	1991-2004, 9999	14
403	Amigo	--	1989-94, 1998- 2000, 9999	14
404	VehiCROSS	VXO	1999-2001, 9999	14
405	Axiom	XS	2002-04, 9999	14
421	Ascender	LS, S, Limited, Luxury	2003-08, 9999	15
441	Oasis	S, LS	1996-99, 9999	20
471	P'up (pickup)	4 X 4	1976-95, 9999	34, 39
472	Hombre	S, XS, XS Space Cab	1996-2000, 9999	34, 39, 40, 42
473	i-280/i-290	S, LS, Luxury	2006-2008, 9999	34
474	i-350/i-370	LS, Limited, S	2006-2008, 9999	34
498	Other (light truck)	--	1981-2008, 9999	14, 15, 20, 34, 39, 40, 42, 48
499	Unknown (light truck)	--	1981-2008, 9999	14, 15, 19, 20, 34, 39, 40, 42, 48, 49

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	--	1981-2004, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	NOR, NPR, NQR, N Series	1981-2019, 9999	60-64, 66, 71, 72, 78

Codes	Models	Includes	Model Years	Body Types
883	Medium/Heavy – COE, high entry	FRR, FRRI, FSR, FTR, FVR, F Series	1981-2019, 9999	60-64 , 66 , 71 , 72 , 78
884	Medium/Heavy – Unknown engine location	--	1981-2019, 9999	60-64 , 66 , 71 , 72 , 78
890	Medium/Heavy – COE entry position unknown	--	1981-2019, 9999	60-64 , 66 , 71 , 72 , 78
898	Other (medium/heavy truck)	--	1981-2019, 9999	60-64 , 66 , 71 , 72 , 78 , 97

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1981-2019, 9999	50-52 , 58 , 59
982	Bus: Front engine, Flat front	--	1981-2019, 9999	50-52 , 58 , 59
983	Bus: Rear engine Flat front	--	1981-2019, 9999	50-52 , 58 , 59
988	Other (bus)	--	1981-2019, 9999	50-52 , 58 , 59
989	Unknown (bus)	--	1981-2019, 9999	50-52 , 58 , 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (ISUZU)	--	1981-2019, 9999	49 , 79 , 99

MAKE: Jaguar (39) (JAGU)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	XJ-S, XK8 Coupe	S, SC, GT, H.E.	1976-2008, 9999	01, 02, 09
032	XJ/ XJL/ XJ6/ 12/ XJR/ XJ8/ XJ8L Sedan/ Coupe	Mk II, Mk X, XJ, 3.85, 3.8, 340/420 Sedan; XJ8(LWB, L, Vanden Plas, Sport); XJ6(L), C, L, Vanden Plas, III, GT, Super 8, Limited, Portfolio, Supersport, Supercharged, Ultimate, Standard Wheelbase, Long Wheelbase, R- Sport	1949-2019, 9999	02, 04, 08, 09
033	XK-E	V12, Roadster, 120, 140, 150, 2+2	1946-74, 9999	01-03, 09
034	S-Type	3.0, 4.0, 4.2, Base, Sport, L, R, VDP Edition	2000-08, 9999	04
035	XKR/XK	Victory Edition, Portfolio, 175 Limited Edition, Black Pack, XKR-S, Touring, GT, Final Fifty	2000-15, 9999	01-03, 09
036	X-Type	2.5, 3.0, Sport, VDP Edition	2002-08, 9999	04, 06, 09
037	XF/XF-R	4.2 Luxury, S, Premium Luxury, Supercharged, 3.0, 2.0T, Portfolio, Sport, Prestige, R-Sport, S, Sportbrake (First Edition, S)	2008-19, 9999	04, 06, 09
038	F-Type	S, V8, Project 7, Premium, SVR, Type R, British Design Edition, R-Dynamic, 400 Sport	2014-19, 9999	01, 03, 09
039	XE	Premium, Prestige, R- Sport	2016-19, 9999	04

Codes	Models	Includes	Model Years	Body Types
398	Other (automobile)	--	1949-2019, 9999	01-04, 06, 08, 09
399	Unknown (automobile)	--	1949-2019, 9999	01-04, 06, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	F-Pace	20d/35t (Premium, Prestige, First Edition, Sport, R-Sport, S), SVR	2017-19, 9999	14
402	E-Pace	Base, S, SE, R-Dynamic, First Edition	2018-19, 9999	14
403	I-Pace	Base, First Edition, e- Trophy	2019	14
499	Unknown (light truck)	--	2017-19, 9999	14

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (JAGUAR)	--	1946-2019, 9999	49, 99

MAKE: Jeep* (Includes Willys/Kaiser-Jeep) (02) (AMER)****AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Compass	Base, Sport, Limited, Latitude, Altitude, High Altitude, SE, 75th Anniversary Edition	2007-19, 9999	06

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	CJ-2/CJ-3/CJ-4	Military	1940-66, 9999	14
402	CJ-5/CJ-6/CJ-7/CJ-8	Scrambler, Renegade, Golden Eagle, Laredo, Wrangler,	1967-93, 9999	14

Codes	Models	Includes	Model Years	Body Types
403	YJ series/Wrangler	SE, Sport (Base, S), Sahara, X, Rubicon (Base, Hard Rock), Unlimited (Altitude, Dragon, Freedom, Polar, Rubicon X. Willys Wheeler, Sport, S, Sahara), Islander, Call of Duty: Black Ops Edition, Moab, Altitude, Freedom, Rio Grande, 60th/65th Anniversary Edition, Apex, Columbia, Golden Eagle, Rocky Mountain, Willys, Willys Wheeler (Base, W), Black Bear, 75th Anniversary Edition, Winter, Rubicon Recon	1986-95, 1997- 2019, 9999	14
404	Cherokee (1984-on) (For Grand Cherokee for 2014 on use 02-422.)	Limited, Laredo, Pioneer, Sport, Grand Cherokee, TSi, Briarwood, Country, RHD, SE, Classic, Overland, Special Edition, SRT8, Summit, Laredo X, Overland Summit, Altitude, Trail Hawk, Sport, Latitude (Base, Plus), Limited, 75 th Anniversary, Sport Altitude, High Altitude	1984-2019, 9999	14
405	Liberty	Sport, Limited Edition, Renegade, Columbia Edition, Rocky Mountain Edition, CRD, Special Edition, Latitude, Jet	2002-13, 9999	14
406	Commander	Base, Limited, Overland, Sport, Rocky Mountain	2006-10, 9999	14
407	Patriot	Sport (Base, SE), Limited, Latitude, X, Altitude, High Altitude, Freedom Edition, 75th Anniversary Edition	2007-17, 9999	14

Codes	Models	Includes	Model Years	Body Types
408	Renegade	Trail Hawk, Latitude, Sport, Altitude, Limited, Desert Hawk, 75th Anniversary Edition	2015-19, 9999	14
421	Cherokee (thru 1983)	Wide Track, Chief, Commando, Jeepster	1969-83, 9999	15
422	Grand Cherokee (For 2014 on. Use model 404 for model years prior to 2013.)	Laredo (Base/E), Limited, Overland, Summit, SRT (Laredo [Base, E] 75th Anniversary Edition [Base, E], Altitude, Limited, Overland, Summit), Trailhawk, 75th Anniversary Edition (Base, Limited), Altitude, Latitude (Base, Plus)	2014-19, 9999	15
431	Grand Wagoneer	Custom, Brougham Limited, Wagoneer	1971-91, 1993, 9999	15
481	Pickup	J-10, J-20, Honcho	1940-93, 9999	34 , 39 , 40 , 42
482	Comanche	Chief	1986-92, 9999	34 , 39 , 40 , 42
498	Other (light truck)	--	1940-2019, 9999	14 , 15 , 19 , 34 , 39 , 40 , 41 , 42 , 45 , 48 , 49
499	Unknown (light truck)	--	1940-2019, 9999	14 , 15 , 19 , 34 , 39 , 40 , 41 , 42 , 45 , 48 , 49

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (JEEP)	--	1940-2019, 9999	49

*Note that Jeep DJ-series are coded under [MAKE 03, MODEL 466](#)

**Willys Jeep can be coded 401 or 999.

MAKE: KIA (63) (KIA)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Sephia	RS, LS, GS	1994-01, 9999	04
032	Rio/Rio5	Cinco (Wagon), LX, SX, EX, S	2001-19, 9999	04-06, 09
033	Spectra/Spectra5	GS, GSX, GX, LS, LX, EX, SX	2000-09, 9999	04, 05, 09
034	Optima	LX, SE, V6, EX, SX, SX Turbo, Hybrid, Limited, SXL, Plug In, S	2001-19, 9999	04
035	Amanti	--	2004-10, 9999	04
036	Rondo	EX, LX	2007-10, 9999	06
037	Soul	Base, sport, +, !, White Tiger, EV, Tarmac, 1 Million	2009-19, 9999	06
038	Forte	2.0 (EX, LX, SX) 2.4 (SX), Koup (EX, LX, SX) 5 (EX, LX, SX), S	2010-19, 9999	02, 04, 05, 08, 09
039	Cadenza	Premium, Limited, Technology	2012-19, 9999	04
040	K900	V6 (Premium, Luxury), V8 (Luxury)	2014-19, 9999	04
041	Stinger	--	2018-19, 9999	05
398	Other (automobile)	--	1994-2019, 9999	02, 04-06, 08, 09
399	Unknown (automobile)	--	1994-2019, 9999	02, 04-06, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Sportage	EX, LX, 4WD, Limited, SX, Base, Turbo	1995-2003, 2005-19, 9999	14

Codes	Models	Includes	Model Years	Body Types
402	Sorento	EX, EX-V6, L, LX, LX-V6, SX, SX-V6, Limited, Limited-V6, SXL	2003-18, 9999	14
403	Niro	FE, EX, LX, Touring (Base, Launch Edition, Graphite Edition), Plug-In	2017-19, 9999	14
421	Borrego	EX, LX, LTD	2008-10, 9999	15
441	Sedona	EX, L, LX, L, SX, Limited, SXL	2002-12, 2014- 19, 9999	20
498	Other (light truck)	--	1995-2019 9999	14, 15, 19, 20
499	Unknown (light truck)	--	1995-2019, 9999	14, 15, 19, 20

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (KIA)	--	1994-2019, 9999	49

MAKE: Lancia (40) (LNCI)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Beta Sedan – HPE	Zagato	1976-82, 9999	02, 04, 06, 08, 09
032	Zagato	--	1976-82, 9999	01, 02, 09
033	Scorpion	(Mote Carlo- Europe Only)	1977	02
398	Other (automobile)	Stratos, Fulvia, Flavia, Appia, Aurelia, Aprilia	1946-82, 9999	01-09
399	Unknown (automobile)	--	1946-82, 9999	01, 02, 04, 06, 08, 09

***NOTE: Lancia did not import in 1980. 1982 - last year imported**

MAKE: Land Rover (62) (LNDR)**LIGHT TRUCKS**

Codes	Models	Includes	Model Years	Body Types
401	Discovery (For 2017 on, see model 425)	SD, SE, SE7, LE, LSE, Series II, Kalahari Edition, S, HSE, G-4 Edition	1994-2004, 9999	14
402	Defender	90	1993-95, 1997, 9999	14
403	Freelander (2004 on; see 422 for 2002-03.)	HSE, SE, S, SE3, G4 Edition	2004-05, 9999	14
404	Range Rover Evoque	Pure (Premium, Plus), Prestige, Dynamic, SE (Base, Premium), HSE (Base, Dynamic), Autobiography, Landmark Edition, Convertible	2012-19, 9999	14
405	Discovery Sport	HSE (Base, Luxury), SE	2015-19, 9999	14
421	Range Rover	County, County SE, Great Divide, Hunter, LSE, County LWB, 4.0SE, 4.6HSE, S, SE, HSE, Westminster, Limited Edition, Supercharged, Sport (HST, SE, SVR, HSE [Base, Dynamic]), Supercharged, Autobiography), Supercharged, HSE-LUX, Autobiography (Base, Black), Standard Wheelbase (Base, HSE, Supercharged, Autobiography, SV Autobiography DYNAMIC), Long Wheelbase (Supercharged, Autobiography, SV	1987-2019, 9999	15

Codes	Models	Includes	Model Years	Body Types
		Autobiography), PHEV, SV Coupe		
422	Freelander (2002-03 only; see 403 for 2004 on)	HSE, SE, S, SE3	2002-03, 9999	15
423	LR3/LR4	HSE, SE, LUX, Plus, V8, Limited Edition, HSE Silver Edition, Landmark Edition	2005-16, 9999	15
424	LR2	i6, TD4, HSE, LUX, Plus	2007-16, 9999	15
425	Discovery (For model years 1994-2004, see model 401)	SE, HSE, HSE Luxury, First Edition, Sport (HSE, HSE Luxury, SE)	2017-19, 9999	15
426	Velar	Base, B-Dynamic, First Edition	2018-19, 9999	15
498	Other (light truck)	Land Rover (1948-1990), Range Rover (before 1987)	1948-2019, 9999	14, 15, 19
499	Unknown (light truck)	--	1948-2019, 9999	14, 15, 19

MAKE: Lexus (59) (LEXS)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	ES-250/300/300h/330/350	Black Diamond Edition, Premium Plus, Ultra Luxury, Hybrid	1990-2019, 9999	04
032	LS-400/430/460/460L/600h/600hL	LS-F Sport, Hybrid, Nightfall Edition	1990-2019, 9999	04
033	SC-400/300	2-Door Coupe	1992-2000, 9999	02
034	GS-300/350/400/430/450h/460	Hybrid, F Sport, Turbo, F	1993-2019, 9999	04
035	IS-250/300/350/500/200t	SportCross, Sport, F, C, F Sport, Turbo	2001-19, 9999	01, 04, 05, 09

Codes	Models	Includes	Model Years	Body Types
036	SC-430	Special Edition, Pebble Beach	2002-10, 9999	01
037	HS 250h	Premium	2010-12, 9999	04
038	CT 200h	F Sport	2011-17, 9999	05
039	LFA	Standard, Special	2012-17, 9999	01, 02, 09
040	RC	300, 350, 350h, F Sport, Turbo, F	2015-19, 9999	01, 02, 09
042	LC Series	500, 500h	2018-19, 9999	02
043	UX	200	2019	05
398	Other (automobile)	--	1990-2019, 9999	01, 02, 04, 05, 08, 09
399	Unknown (automobile)	--	1990-2019, 9999	01, 02, 04, 05, 08, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	RX300/350	2WD, 4WD	1999-03, 9999	14
402	GX470	Sport, Premium	2003-09, 9999	14
403	RX330/350/400h/450h	Hybrid, Thundercloud, Mark Levinson Package, F Sport	2004-19, 9999	14
404	GX460	Sport, Premium, Luxury	2010-19, 9999	14
405	NX	200t, 300, 300h, F Sport, Hybrid, Turbo	2015-19, 9999	14
421	LX450/470/570	--	1996-2019, 9999	15
499	Unknown (light truck)	--	1996-2019, 9999	14, 15, 19

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (LEXUS)	--	1990-2019, 9999	49

MAKE: Lincoln (13) (LINC)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Continental (thru '81)/ Town Car	Continental, (thru '81), Signature/Designer Series, Town Car ('81 on, body 04 only), Cartier, Executive, L, Premium, Ballistic Protection Edition, Ultimate, Designer Series, Limited	1940-2011, 9999	01, 02, 04, 08, 09, 11, 12
002	Mark	I, II, III, IV, V, VI, VII, VIII LSC, Signature/Designer Series	1956-98, 9999	01, 02, 04, 08, 09
005	Continental ('82 on)	Signature/Designer Series, Luxury	1982-2002, 9999	02, 04, 08, 09, 12
011	Versailles	--	1977-80, 9999	04
012	LS	Convenience, Premium, Sport, Luxury, Ultimate	2000-06, 9999	04
013	Zephyr/MKZ	FWD, AWD, Hybrid (Premier 400A, Select 500A, Reserve 600A), 2.0L, 3.7L, EcoBoost, Premiere (100A), Select (200A), Reserve (300A), Black Label (Vineyard, Chalet, Thoroughbred), 3.0L	2006-19, 9999	04
014	MKX	FWD, AWD, Black Label (Modern Heritage, Indulgence, Thoroughbred, The	2007-18, 9999	06

Codes	Models	Includes	Model Years	Body Types
		Muse), Premiere, Select, Reserve		
015	MKS	EcoBoost, 3.7L FWD/AWD	2008-16, 9999	04
016	MKT	EcoBoost, TownCar, 3.5L, 3.7L, Premiere, Reserve	2010-19, 9999	06, 09, 11, 12
017	Continental	Black Label Edition (Rhapsody, Chalet, Thoroughbred), Select, Premiere, Reserve	2017-19, 9999	04
398	Other (automobile)	Cosmopolitan, Capri, Premiere	1940-2019, 9999	01-09, 10-12
399	Unknown (automobile)	--	1940-2019, 9999	01-09, 10-12

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Aviator	Premium, Luxury, Ultimate, Kitty Hawk Edition	2003-06, 9999	14
402	MKC	FWD, AWD, Black Label (Modern Heritage, Center Stage, Indulgence), Premiere, Select, Reserve	2015-19, 9999	14
421	Navigator	2WD, 4WD, Premium, Luxury, Ultimate, L, 5.4L, Premiere, Select, Reserve (Base, L), Black Label	1997-2019, 9999	15
422	Nautilus	Black Label Edition	2019	15
481	Blackwood	--	2002	34
482	Mark LT	2WD, 4WD	2006-08, 9999	34

Codes	Models	Includes	Model Years	Body Types
498	Other (light truck)	--	1997-2019, 9999	14 , 15 , 19 , 34
499	Unknown (light truck)	--	1997-2019, 9999	14 , 15 , 19 , 49

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (LINCOLN)	--	1990-2019, 9999	49

MAKE: Mazda (41) (MAZD)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	RX2	--	1970-74, 9999	02 , 04 , 06 , 08 , 09
032	RX3	--	1970-78, 9999	02 , 04 , 06 , 08 , 09
033	RX4	--	1974-78, 9999	02 , 04 , 06 , 08 , 09
034	RX7	S, GS, GSL, SE	1979-96, 9999	01-03 , 09
035	323/GLC/Protégé/ Protégé 5	DX, Protégé (1990-on), DX, LX, ES, Mazdaspeed	1977-2003, 9999	03-07 , 09
036	Cosmo	--	1976-78, 9999	02
037	626	GT, GS, GSL, SE, DX, LX, ES	1979-2002, 9999	02 , 04 , 05 , 08 , 09
038	808	--	1972-77, 9999	02 , 04 , 06 , 08 , 09
039	Mizer	--	1976	02 , 04 , 06 , 08 , 09
040	R-100	--	1950-72, 9999	02
041	616/618	--	1968-72, 9999	02 , 04 , 08 , 09

Codes	Models	Includes	Model Years	Body Types
042	1800	--	1968-72, 9999	04, 06, 09
043	929	--	1988-95, 9999	04
044	MX-6	Turbo, LS, M-Edition	1988-97, 9999	02
045	Miata/MX-5	Miata (LS), SE, SV, Mazdaspeed, Sport, Touring, Grand Touring, Club, Special, Special Edition, PRHT, RF (Club, Grand Touring)	1990-97, 1999- 2019, 9999	01
046	MX-3	GS	1992-95, 9999	02
047	Millenia	L, S, P, Millennium Edition	1995-02, 9999	04
048	MP3	Limited Edition	2001	04
049	RX-8	Sport AT, Shinka, Touring, Grand Touring, R3, Plus	2003-14, 9999	04
050	Mazda6	Grand Touring, Sport, Mazdaspeed6, Grand Sport, SV, Plus, Touring	2003-19, 9999	04-06, 09
051	Mazda3	i (Sport, Touring, Grand Touring, SV), s (Touring, Grand Touring), SP23, Value, Mazdaspeed3, Touring 2.5	2004-19, 9999	04-06, 09
052	Mazda5	Sport, Touring, Grand Touring	2006-10, 2012- 15, 9999	06
053	CX-7	i, s, Sport, Touring, Grand Touring, SV	2007-12, 9999	05
054	CX-9 (2007-12 only. For 2013 on see model 421.)	Sport, Touring, Grand Touring	2007-12, 9999	06
055	Mazda2	Sport, Touring	2011-15, 9999	05

Codes	Models	Includes	Model Years	Body Types
056	CX-3	Sport, Touring, Grand Touring	2016-19, 9999	05
398	Other (automobile)	1200, 616	1950-2019, 9999	02, 03, 09
399	Unknown (automobile)	--	1950-2019, 9999	01-09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Navajo	--	1991-94, 9999	14
402	Tribute	DX, DX-V6, LX-V6, ES-V6, ES, LX, i, s, Hybrid, Sport, Grand Touring, Touring	2001-12, 9999	14
403	CX-5	Sport, Touring, Grand Touring, Diesel	2013-19, 9999	14
421	CX-9 (2013 on. See model 054 for 2007-12 model years.)	Sport, Touring, Grand Touring, Signature	2013-19, 9999	15
441	MPV	LX, ES, DX, All Sport, LX-SV	1989-98, 2000- 06, 9999	20
471	Pickup/ B-Series Pickup	B2000, B2200, B2300, SE-5, LX, SE (2WD, 4WD), SX, DS, Cab Plus, B2500/B2600/ B3000/B4000, Dual Sport Cab	1972-2009, 9999	34, 39, 40, 42, 48
498	Other (light truck)	--	1965-2019, 9999	14, 15, 19, 20, 34, 39, 40, 42, 48
499	Unknown (light truck)	--	1965-2019, 9999	14, 15, 19, 20, 34, 39, 40, 42, 48, 49

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (MAZDA)	--	1950-2019, 9999	49

MAKE: Mercedes Benz (42) (MERZ)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	200/220/230/240/ 250/260/280/300/ 320/420	Sedan and 5-passenger "C" only; SE, CD, D, SD, TD, TE, CE, E; DOES NOT include 280 SE (1975 on) or 300 SD- see code 037; C-Class up to 1993, E- Class up to 1997	1950-97, 9999	01, 02, 04, 06, 08, 09, 12
032	230/280 SL	2-seater only	1964-71, 9999	01, 02, 09
033	300/350/380/450/500/ 560 SL	2-seater only; 300/500 SL (1990 on)	1972-94, 9999	01, 02, 09
034	350/380/420/450/560 SLC	--	1973-94, 9999	02
035	280/300 SEL	--	1967-72, 9999	02, 04, 08, 09
036	300/380/420/450/500/ 560/SEL & 500/560, 600 SEC & 300/350 SDL	--	1973-94, 9999	02, 04, 06, 08, 09
037	300/380/450 SE	280 S, 280 SE (1975 on), 300 SD Sedan/350 SD	1968-94, 9999	01, 02, 04, 08, 09
038	600, 6.9 Sedan	Pullman	1978-87, 9999	04, 12
039	190	D, E, 2.3, 2.5	1984-93, 9999	04, 06, 09
040	300	CE Cabriolet	1993-94, 9999	01
041	400/500E	--	1992-94, 9999	01, 02, 04, 06, 08, 09
042	C Class (94 on)	C220/C230 (Kompressor)/ C240/250/280/300/320/35 0/400 (W)/C32/ 36/43/55/63/63S AMG, Sport, Luxury, 450 (AMG), 350e Plug-In Hybrid	1994-2019, 9999	01, 02, 04, 06, 08, 09

Codes	Models	Includes	Model Years	Body Types
043	S Class (95 on)	S320/350/400(V)/420/430/450/500/550/560 (V/e/ Maybach)/600(V), 55/63/65 (AMG), Hybrid, 4-M, S600 (Maybach)	1995-2019, 9999	01, 02, 04, 08, 09
044	SL Class (95 on)	SL320/400/450/500/550(R)/600(R), Silver Arrow Edition, SL55/63/65 AMG	1995-2019, 9999	01, 02, 09
045	SLK	SLK230/250/280/300/320/350 (Sport), Kompressor, SLK 32/55 (AMG), Special Edition	1998-2016, 9999	01
046	CL Class	CL500/550/600, CL55/63/65 AMG	1998-2014, 9999	02
047	CLK	CLK 320/350/430/500/550, Cabriolet, CLK 55/63/65 AMG	1998-2009, 9999	01, 02, 09
048	E Class ('97 on)	250/300/TD, 320/350 (4-M, A, C, S, W)/400/420/430/ 500/550 (4-M, A, C, W), 43/53/55/63/63S AMG, 320CDI, Hybrid	1996-2019, 9999	01, 02, 04, 06, 08, 09
049	SLR	McLaren, 722 Edition	2005-10, 9999	01, 02, 09
050	R Class	R320/350/500, R63 AMG	2006-12, 9999	06
051	CLS Class	CLS400/500/550, CLS55/63/ 63S AMG	2006-19, 9999	04
052	SLS Class	AMG (C/GT) Final Edition	2011-15, 9999	01, 02, 09
053	B Class	250e	2014-17, 9999	05
054	CLA Class	250, 45 (AMG)	2014-19, 9999	04
055	GLA Class	250, 45 (AMG)	2015-19, 9999	05
056	AMG GT S	450, GT C	2016-19, 9999	02, 04
057	SLC Series	300, 43 (AMG)	2017-19, 9999	01
058	A-Class	220	2019	04
398	Other (automobile)	--	1946-2019, 9999	01-09, 10-12

Codes	Models	Includes	Model Years	Body Types
399	Unknown (automobile)	--	1946-2019, 9999	01-09 , 10-12

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	M/ML Class	ML250/320/350/400/430/ 450/500/550, 55/63 AMG Special Edition, Hybrid, 4- M	1998-2015, 9999	14
402	G Class	G500/550, G55/63/65 (AMG)	2002-19, 9999	14
403	GLK Class	220/250/280/320/350	2010-15, 9999	14
404	GLE Class (For 2016- 2018 only. For model years 2019 on, see 42- 423.)	300d, 350/550e, 43/63/63S (AMG), Coupe (450, AMG – 43/63S)	2016-2018, 9999	14
405	GLC Class	300, 43 (AMG), Coupe (300, AMG 43)	2016-2019, 9999	14
421	GL Class	GL320/350/450/550, GL63 (AMG)	2007-16, 9999	15
422	GLS Class	450, 550, 63 (AMG)	2017-19, 9999	15
423	GLE Class (For 2019 on. For model years 2016- 2018, see 42- 404.)	400, 43 AMG	2019	15
461	Sprinter	(for 2004-2010 see “Freightliner” and “Dodge”)	2002-03, 2010- 19, 9999	21, 22, 28, 29
462	Metris	Cargo, Passenger	2016-19, 9999	20
470	Van derivative	Kurbstar	1982-2019, 9999	28, 29
498	Other (light truck)	--	1946-2019, 9999	14-16, 19, 21, 22, 40, 41, 42, 45, 48
499	Unknown (light truck)	--	1946-2019, 9999	14-16, 19, 21, 22, 28, 29, 40, 41, 42, 45, 48, 49

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	Sprinter based	2002-03, 2010-19, 9999	65, 73

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
870	Medium/Heavy Van- Based Vehicle	Sprinter	2002-03, 2010-19, 9999	55, 61-64
881	Medium/Heavy – CBE	--	1965-91, 9999	60-64, 78
882	Medium/Heavy – COE low entry	--	1965-91, 9999	60-64, 78
883	Medium/Heavy – COE high entry	--	1965-91, 9999	60-64, 78
884	Medium/Heavy – Unknown engine location	--	1965-91, 9999	60-64, 78
890	Medium/Heavy – COE entry position unknown	--	1965-91, 9999	60-64, 78
898	Other (medium/heavy truck)	--	1965-91, 9999	60-64, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-91, 9999	50-52, 58, 59
988	Other (bus)	--	1965-91, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-91, 9999	92-93, 97

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2019, 9999	49, 79, 99
999	Unknown (MERCEDES BENZ)	--	1950-2019, 9999	49, 79, 99

MAKE: Mercury (14) (MERC)[\(Merkur: See "56"\)](#)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
002	Cyclone	GT, CJ, Spoiler	1964-70, 9999	01, 02, 09
003	Capri-domestic (for 1967 see 008)	RS, Turbo, GS, Black Magic, 5.0	1979-86, 1989- 94, 9999	01, 03, 09
004	Cougar (For 1967-1997. See 038 for 1999-2002) /XR7 (1967-1997)	Villager, Brougham, RS, LS, GS, Eliminator, XR-7	1967-97, 9999	01, 02, 04, 06, 08, 09
006	Marquis/Monterey (car version; for van version 2004 on see code 444) /Grand Marquis	Marauder (prior to 2003, 2003 on see code 039), Montclair, X-100, Parklane, S-55, Custom, Brougham Grand Marquis (GS, LS), Medalist, Turnpike, Colony Park, GS, LS, LSE, Limited Edition, Palm Beach Edition	1952-2011, 9999	01, 02, 04, 06, 08, 09
008	Comet	Caliente, Capri (1967), GT, Voyager, 202, 404, Villager Wagon	1960-79, 9999	01, 02, 04, 06, 08, 09
009	Bobcat	Runabout, Villager Wagon	1975-80, 9999	03, 06, 09
010	Montego (prior to 1976; for 2005 on see code 020)	GT, MX, Villager, Brougham, Comet (1968-1970)	1968-76, 9999	01, 02, 04, 06, 08, 09
011	Monarch	Ghia	1975-80, 9999	02, 04, 08, 09
012	Zephyr	GS, Z-7	1978-83, 9999	02, 04, 06, 08, 09
013	Lynx/LN7	L, LS, GS, RS, XR-3	1981-87, 9999	03, 05-07, 09
015	Topaz	L, LS, GS, 4x4, XR5, LTS, Sport	1984-94, 9999	02, 04, 08, 09
017	Sable	LS, GS (Premium), GS Plus, Platinum Edition, Premier, Base	1986-2005, 2008-09, 9999	04, 06, 09

Codes	Models	Includes	Model Years	Body Types
020	Montego (2005 on)	Luxury, Premier	2005-07, 9999	04
021	Milan	I-4, V6 (Base/Premier), Hybrid	2006-11, 9999	04
031	Capri-foreign	Capri II, 2+2	1970-77, 9999	03
033	Pantera-foreign	deTomaso	1972-74, 9999	01-09 , 10
036	Tracer	L, GL, LTS, GS, LS	1988-99, 9999	03-06 , 09
037	Mystique	GS, LS	1995-2000, 9999	04
038	Cougar (1999-2002)	V-6, I-4, S, Sport, CR, XR	1999-2002, 9999	02 , 03 , 09
039	Marauder	M75, 300A	2003-04, 9999	04
398	Other (automobile)	--	1962-2011, 9999	01-09 , 10
399	Unknown (automobile)	--	1952-2011, 9999	01-09 , 10

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Mountaineer	Convenience, Luxury, Premier (4.0/4.6L)	1996-2010, 9999	14
402	Mariner	Convenience, Luxury, Premier, Hybrid	2005-11, 9999	14
443	Villager	LS, GS, Nautica, Estate, Sport, Sport Plus, Popular	1993-2002, 9999	20
444	Monterey (van version; for car version prior to 2004 see code 006)	Convenience, Luxury, Premier	2004-07, 9999	20
498	Other (light truck)	--	1993-2011, 9999	14 , 20
499	Unknown (light truck)	--	1993-2011, 9999	49

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (MERCURY)	--	1950-2011, 9999	49

MAKE: Merkur (56) (MERK)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	XR4Ti	Turbo	1985-89, 9999	03
032	Scorpio	Turbo	1988-90, 9999	05
398	Other (automobile)	--	1985-90, 9999	03-05, 07, 09
399	Unknown (automobile)	--	1985-90, 9999	03-05, 07, 09

MAKE: MG (43) (MG)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Midget	GAN I/II/III/4/5, MK I, MK II, MKIII	1962-80, 9999	01
032	MGB	MK I/II/IV, 600 Limited, V-8	1955-80, 9999	01, 02, 09
033	MGB	GT, MK III	1967-74, 9999	02, 03, 09
034	MGA	1500, 1600, YT, TC, TD/II, MK I/II, A	1945-62, 9999	01, 02, 09
035	TA/TC/TD/TF	Y-Type, 430, TDC	1945-62, 9999	01, 02, 09
036	MGC	GT	1968-69, 9999	01, 02, 09
037	Magnette/Sports Sedans	ZB, ZA/YA/YB, MK III, MK IV, 1100, 1300	1945-66, 9999	02, 04, 08, 09
398	Other (automobile)	--	1945-80, 9999	01-04, 08, 09
399	Unknown (automobile)	--	1945-80, 9999	01-04, 08, 09

MAKE: Mitsubishi (52) (MITS)

AUTOMOBILES

Codes	Models	Includes	Model Years	Body Types
031	Starion	2+2, LE, Turbo, ESI	1982-89, 9999	03
032	Tredia	L, LS, Turbo	1982-88, 9999	04
033	Cordia	L, Turbo	1982-88, 9999	03
034	Galant	ECS, Sigma (through '88), ES, LS, DE, GTS-V6, I-4, Special Edition, Ralliart, Sport Edition, SE, FE	1985-2012, 9999	04
035	Mirage (For 1985-2002. For 2014 on use model 048.)	L, Turbo, GS, LS, DS, DE, ES	1985-2002, 9999	02-04, 08, 09
036	Precis	--	1987-94, 9999	03, 05, 07, 09
037	Eclipse	GS, DOHL, Turbo, GS-T, GSX, Spyder, RS, GT, GTS, Remix Edition, SE, Sport, Special Edition	1990-2012, 9999	01-03, 09
038	Sigma	(Prior '89 see 034)	1989-90, 9999	04
039	3000 GT	SL, VR-4, Spyder	1991-99, 9999	01-03, 09
040	Diamante	LS, ES, LE, VR-X	1992-2004, 9999	04, 06, 09
041	iMEV (For 2018 on, code as vehicle model 398)	ES, SE	2012-17, 9999	05
045	Expo Wagon	LRV, Sport	1992-95, 9999	06
046	Lancer/Lancer Sportback/Lancer Evolution	ES (2.0, 2.4), LS, O-Z, Rally, Evolution VII/VIII/IX/X, Sport, Ralliart LS, MR Edition, DE, GSR, GTS, Touring, SE, GT, SEL, FE	2002-17, 9999	04-06, 09
047	Outlander (For 2003-2018 only. For model years 2019 on, see 52-404.)	ES, LS, SE, XLS, Limited, GT, Sport, SE-S, GT-S, SEL, GT 3.0 S-AWC, Plug-In Hybrid, PHEV	2003-18, 9999	05, 06, 09
048	Mirage (2014 on. For 1985-2002 use 52-035.)	DE, ES, SE, GT, G4 (ES, SE)	2014-19, 9999	04, 05, 09

Codes	Models	Includes	Model Years	Body Types
398	Other (automobile)	500, 1000, Debonair, Galant (1969), iMEV (2018 on)	1960-2019, 9999	01-09
399	Unknown (automobile)	--	1960-2019, 9999	01-09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Montero/Montero Sport	Sport, LS, SR, XLS, ES, LTD, 20 th Anniversary Edition, SE	1983-2006, 9999	14
402	Endeavor	LS, SE, XLS, Limited	2004-12, 9999	14
403	Eclipse Cross	ES, LE, SE, SEL	2018-19, 9999	14
404	Outlander (For 2019 on. For model years 2003- 2018, see 52-047.)	ES, SE, SEL, GT	2019	14
441	Mini-Van	LS	1987-90, 9999	20
471	Pickup	Mighty Max, SPX, 4x4	1983-96, 9999	34, 39, 40, 42, 48
472	Raider	LS, Durocross, XLS	2006-10, 9999	34
498	Other (light truck)	--	1983-2012, 9999	14, 20, 34, 39, 40, 42, 48
499	Unknown (light truck)	--	1983-2012, 9999	14, 20, 34, 39, 40, 42, 48, 49

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
882	Medium/Heavy – COE low entry	FUSO FE/FG/FH/FK/FM	1983-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1983-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1981-2004, 9999	50-52, 58, 59
982	Bus: Front engine, Flat Front	--	1981-2004, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1981-2004, 9999	50-52, 58, 59
988	Other (bus)	--	1981-2004, 9999	50-52, 58, 59
989	Unknown (bus)	--	1981-2004, 9999	50-52, 58, 59

****Use code "989" (bus) if the frontal plane or the engine location is unknown UNKNOWN**

Codes	Models	Includes	Model Years	Body Types
999	Unknown (MITSUBISHI)	--	1983-2019, 9999	49, 79, 99

MAKE: Nissan/Datsun (35) (NISS) - (DATS)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	F-10	--	1977-78, 9999	03, 05-07, 09
032	200SX/240SX	SE, SE-R, LE	1977-98, 9999	01-03, 09
033	210/1200/B210	110 series, Honeybee	1971-82, 9999	02-04, 06, 08, 09
034	Z-car, ZX	240/260/280Z & ZX, 300 ZX, 2+2, Turbo	1970-96, 9999	01-03, 09
035	310	SPL	1979-82, 9999	02, 03, 05, 07, 09
036	510	PL, WPL	1968-73, 1978-81, 9999	02-09
037	610	PL, HL	1973-76, 9999	02-04, 06, 08, 09

Codes	Models	Includes	Model Years	Body Types
038	710	PL	1974-77, 9999	02-04, 06, 08, 09
039	810/Maxima	SE (Titanium Special), GXE, GLE, 2.5 (S/SR/SL/SV), 3.5SE/SL/SEL/S/SV/SR, Platinum Edition, Midnight Edition	1977-2019, 9999	04, 06, 09
040	Roadster	SPL311, SRL311, 1500, 1600, 2000, convertible, Fairlady	1950-70, 9999	01
041	311/411	1000, Bluebird, PL311/ PL312/PL410/PL411/RL411	1959-67, 9999	04, 06, 09
042	Stanza	XE	1982-93, 9999	03-07, 09
043	Sentra	E, XE, GXE, S, SE, SE-R (Spec V), GLE, CA, 2.5LE, 1.8, 1.8S, 2.0/S/SL/SR, Special Edition, Platinum Edition, Spec-V, FE, SV, FE+S, Nismo, SR Turbo	1982-2019, 9999	02, 04, 06, 08, 09
044	Pulsar	NX, EXA (1986 on)	1983-90, 9999	02, 03, 05, 07, 09
045	Micra	--	1987-94, 9999	01-05, 07-09
046	NX 1600/2000	T-bar coupe	1991-94, 9999	02, 03, 09
047	Altima	XE, GXE, SE, GLE, 2.5 S/SL/SR/SV, 3.5 S/SE/SL/SR/ SV, SE-R, Hybrid, SR (Base, Midnight), Platinum, Special Edition, Edition One	1993-2019, 9999	02, 04, 08, 09

Codes	Models	Includes	Model Years	Body Types
048	350Z/370Z	Enthusiast, Performance, Touring, Track, Base, 35 th Anniversary, Grand Touring, Nismo, 40 th Anniversary, Sport, Sport Tech, Nismo Tech, Touring Sport, Heritage Edition (Magnetic Black and Chicane Yellow)	2003-19, 9999	01, 02, 09
049	Murano (For 2003-2018 only. For model years 2019 on, see 35-422.)	SE, SL, S, LE, SV, CrossCabriolet, Platinum, S Plus	2003-18, 9999	01, 06, 09
050	Versa	1.8S/SL, 1.6 S/SV/SL, Plus, Note (S, S Plus, SV, SR, SL), S Plus, SR, SV Special Edition	2007-19, 9999	04, 05, 09
051	Rogue (For 2008-2018 only. For model years 2019 on, see 35-404.)	S, SL, SV, Krom/Special Edition, Select (S), Sport	2008-18, 9999	06
052	Cube	1.8 S/SL, Krom Edition, Indigo Edition	2009-14, 9999	06
053	GT-R	Base, Premium, Black Edition, Track Edition, Nismo, 45 th Anniversary	2009-19, 9999	02
055	Leaf	S, SL, SV	2011-19, 9999	05
056	Kicks	S, SV	2018-19, 9999	05
398	Other (automobile)	110 sedan, K110	1955-2019, 9999	01-09, 10
399	Unknown (automobile)	--	1955-2019, 9999	01-09, 10

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Pathfinder	MPV, 4X4, XE, LE, SE, S, Off-Road, FE+, SV, Silver Edition, Hybrid, SL (Tech, Premium), Platinum, SL	1986-2019, 9999	14

Codes	Models	Includes	Model Years	Body Types
402	Xterra	XE (I-4), SE, (S/C), SE-R, Spec V, X, S, Off-Road, Pro-4X	2000-15, 9999	14
403	Juke	S, SL, SV, Nismo, Nismo RS	2011-18, 9999	14
404	Rogue (For 2019 on. For model years 2008-2018, see 35-051.)	S, SV, SL, Hybrid	2019	14
421	Pathfinder Armada	LE, SE, SE Off-Road, Titanium, Platinum (Base/Reserve), SV, SL	2004-19, 9999	15
422	Murano (For 2019 on. For model years 2003-2018, see 35-056.)	S, SV, SL, Platinum	2019	15
441	Van	XE, GXE	1987-91, 9999	20
442	Axxess	--	1989-90, 9999	20
443	Quest	XE, GXE, SE, GLE, 3.5 S/SE/SL, Special Edition, SV, LE, Platinum	1993-2002, 2004-09, 2011-17, 9999	20
444	Altra EV*	(electric vehicle*)	1998-2005, 9999	20
446	NV200/eNV200	S, SV, Taxi, Compact Cargo, Passenger (S, SL, SV), HD Cargo	2013-19, 9999	20
461	NV	1500 (S, SV), 2500 HD (S, SV), 3500 (S, SV, SL)	2011-19, 9999	21, 22, 28, 29
471	Nissan/Datsun Pickup (1955-1997)	120, 620 series, King Cab, Hardbody, XE, SE	1955-97, 9999	34, 39, 40, 42
472	Frontier (1998 on)	XE, SE, S/C (Regular Cab, King Cab, Desert Runner, Crew Cab), Open-Sky, SVE, Nismo, Pro-4X, LE, SV, SL, S, Diesel Runner	1998-2019, 9999	34, 39, 40, 42
473	Titan (from 2004-06; see 481 for 2007 on)	E, LE, SE, XE	2004-06, 9999	34

Codes	Models	Includes	Model Years	Body Types
481	Titan (from 2007 on; see 473 for 2004-06)	LE, SE, XE, PRO-4X, S, SV, SL, XD (S, SV, SL, Platinum Reserve), Platinum, Platinum Reserve	2007-19, 9999	34
498	Other (light truck)	Patrol (1960)	1955-2019, 9999	14, 15, 19, 20, 21, 22, 34, 39
499	Unknown (light truck)	--	1955-2019, 9999	14, 15, 19, 20, 29, 34, 39, 40, 42, 48, 49

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
870	Medium/Heavy Van- Based Vehicle	NV	2011-19, 9999	55, 61-64
883	Medium/Heavy – COE high entry	--	1986-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1986-2019, 9999	60-64, 66, 71, 72, 78

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (NISSAN/DATSUN)	--	1950-2019, 9999	49, 79, 99

MAKE: Oldsmobile (21) (OLDS)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Cutlass (RWD-only)	Supreme, S, LS, Salon, Brougham Vista Cruiser, F85 (thru 1972), Rallye 350, Hurst Olds, 442, Calais (thru 1985), Classic (88)	1960-88, 9999	01, 02, 04, 06, 08, 09

Codes	Models	Includes	Model Years	Body Types
002	Delta 88/LSS	Royale, Custom, Delta, Jetstar 88, Delmont 88, Starfire (Thru 1966), Custom Cruiser, Jetfire, Eighty-Eight (LS, 50 th Anniv. Edition)	1949-99, 9999	01-04, 06, 08, 09
003	Ninety-Eight/Regency	Luxury, Futuramic, Brougham	1949-99, 9999	01, 02, 04, 08, 09
005	Toronado	XS, XSR, Trofeo, Brougham Custom	1966-92, 9999	02
006	Commercial Series	Ambulance/Hearse	1940-2003, 9999	09, 10-12
012	Starfire	SX, GT, ST	1975-80, 9999	01-03, 09
015	Omega	X-body type, Brougham	1973-85, 9999	02-04, 08, 09
016	Firenza	S, LS, SX, Cruiser, GT	1982-88, 9999	03-06, 07, 09
017	Ciera	Cutlass Ciera (Base, S, SL, International), Cutlass Cruiser (Base, S, SL)	1982-96, 9999	01, 02, 04, 06, 08, 09
018	Calais	GT, ES, 500	1985-91, 9999	02, 04, 08, 09
020	Cutlass (FWD)	Supreme (Excludes Ciera), GLS, GL	1988-99, 9999	01, 02, 04, 08, 09
021	Achieva/Alero	SC, SL, GX, GL (1, 2, 4), GLS	1992-2004, 9999	02, 04, 08, 09
022	Aurora	3.5L, 4.0L, Collector's Series	1995-99, 2001-03, 9999	04
023	Intrigue	GL, GX, GLS	1997-2002, 9999	02, 04, 08, 09
398	Other (automobile)	66/68/70/90, Dynamic 70	1930-2004, 9999	01-09, 10-12
399	Unknown (automobile)	--	1930-2004, 9999	01-09, 10-12

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Bravada	2WD, 4WD, Collector's Series	1991-94, 1996-2004, 9999	14

Codes	Models	Includes	Model Years	Body Types
441	Silhouette	GL, GLS, Series I, Series II, GS Premier Edition, Collector's Series	1990-2004, 9999	20
499	Unknown (light truck)	--	1932-2004, 9999	14 , 20 , 49

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (OLDSMOBILE)	--	1932-2004, 9999	49

MAKE: Peugeot (44) (PEUG)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	304	--	1971-72, 9999	04-06 , 09
032	403	Station Wagon	1955-67, 9999	01 , 04 , 06 , 09
033	404	Station Wagon	1961-70, 9999	01 , 04 , 06 , 09
034	504/505	STI, STX, Turbo, S, STI, STX, GL, GLS Liberte, Station Wagon, DSL, DL, GLX	1970-91, 9999	04-06 , 09
035	604	SL, D	1977-84, 9999	04
036	405	Mi-16, DL, S	1989-91, 9999	04 , 06 , 09
398	Other (automobile)	202, 203	1945-91, 9999	01-09
399	Unknown (automobile)	--	1945-91, 9999	01-09

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
701	0-50 cc	--	1965-83, 9999	81
702	51-124cc	--	1965-83, 9999	81
709	Unknown cc	--	1965-83, 9999	81

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (PEUGEOT)	--	1960-91, 9999	99

MAKE: Plymouth (09) (PLYM)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Valiant/Scamp/Duster (thru 1976)	100, 200, Brougham, Signet, Custom, Special, 340, 360, Twister	1960-76, 9999	01, 02, 04, 06, 08, 09
002	Satellite/Belvedere	Belvedere I/II, GTX, Roadrunner (through 1974), Brougham, Sebring, Sebring Plus, Superbird	1951-74, 9999	01, 02, 04, 06, 08, 09, 10-12
003	Fury (Fury Gran thru '78)	I, II, III, Roadrunner (1975), Suburban, Salon, VIP, Sport	1957-78, 9999	01, 02, 04, 06, 08, 09
004	Gran Fury ('80 on)	Sedan, Coupe, Salon	1980-89, 9999	02, 04, 06, 08, 09
005	Barracuda	Formula, S, 340, Gran Coupe, AAR, Cuda	1964-74, 9999	01, 02, 09
006	Volare'	Custom, Premier, Roadrunner (1976 on), Police	1976-80, 9999	02, 04, 06, 08, 09
007	Caravelle	Turbo, SE	1985-88, 9999	04
008	Horizon/Turismo	TC-3, Turismo 2.2, Miser, America, Custom, SE, Duster (1985 on), Expo	1978-90, 9999	03, 05, 07, 09
011	Reliant (K)	SE, LE, Reliant America, Limited	1981-89, 9999	02, 04, 06, 08, 09
013	Scamp- (car-based p/u)	GT, 2.2	1982-84, 9999	10
017	Sundance	RS, Turbo, Sundance Duster, America	1987-94, 9999	03, 05, 07, 09
019	Acclaim	LX, LE	1989-95, 9999	04

Codes	Models	Includes	Model Years	Body Types
020	Neon (2002 and on, see Dodge)	Sport, Competition, Highline	1995-2001, 9999	02, 04, 08, 09
031	Cricket	--	1971-72, 9999	04, 06, 09
032	Arrow	GS, GT, Fire Arrow	1976-80, 9999	03
033	Sapporo	all imported	1978-83, 9999	02, 03, 09
034	Champ/Colt import (includes 2WD Vista)	Turbo, Custom, GL, SE, DL, E Station wagon (1984 on)	1979-94, 9999	02-09
035	Conquest	TSI	1984-87, 9999	03
037	Laser	RS, Turbo	1989-94, 9999	02, 03, 09
038	Breeze	--	1996-2000, 9999	04
039	Prowler (1997, 1999-2001 only. For 2002 on, see Chrysler)	Roadster, Black Tie Edition	1997, 1999-2001, 9999	01
398	Other (automobile)	Regant, Fleet, Savoy, Concord, Cambridge	1930-95, 9999	01-09, 10-12
399	Unknown (automobile)	--	1965-2001, 9999	01-09, 10-12

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
421	Trailduster	--	1974-93, 9999	15
441	Vista Van	4X4 (only)	1987-94, 9999	20
442	Voyager (minivan) (2000 and on, see Chrysler)	SE, LX, Grand Voyager, SE Expresso, EPIC-electric*	1984-2001, 9999	20
461	Van-fullsize (B-series)	Voyager (thru 1983), Sport, Premier	1965-95, 9999	21
471	Arrow pickup (foreign)	--	1975-91, 9999	34, 39
498	Other (light truck)	--	1965-2001, 9999	15, 20, 21, 28, 29, 34, 39, 42, 45, 48
499	Unknown (light truck)	--	1974-2001, 9999	15, 20, 21, 29, 34, 39, 48, 49

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2001, 9999	92, 93, 97
999	Unknown (PLYMOUTH)	--	1957-2001, 9999	49

MAKE: Pontiac (22) (PONT)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Lemans (See model 031 for 1988 on)/Tempest (thru 1970)	Safari, T-37, Luxury, Grand Sport, GTO (thru 1973), GT- 37, Sprint, Judge, Grand AM (73-75), Grand Lemans	1961-81, 9999	01, 02, 04, 06, 08, 09
002	Bonneville/Catalina/Parisienne	Brougham, Grand Safari, Safari, Grandville, 2+2, Executive, Starchief, SE, SSE, SSEi, G, SLE, GXP	1954-2005, 9999	01, 02, 04, 06, 08, 09
005	Fiero	2M4, 2M6, GT, SE	1984-89, 9999	02
008	Ventura/GTO	II, SJ, Sprint, GTO (74-77), Custom, Base, LS2	1971-77, 2004-06, 9999	02-04, 08, 09
009	Firebird/Trans AM	Esprit, Formula, GTA, Redbird, Yellowbird, Skybird, SE, Bandit, TransAm	1967-2002, 9999	01-03, 09
010	Grand Prix (RWD)	J, LJ, SJ, Brougham, 2+2, GT, STE, SE	1962-87, 9999	01, 02, 09
011	Astre	Safari, SJ, Custom	1975-77, 9999	02, 03, 06, 09
012	Sunbird (thru 1980;1985 on see model 016)	Safari, Sport, Formula	1976-80, 9999	01-09
013	T-1000/1000	2T	1981-87, 9999	03, 05, 07, 09
015	Phoenix	LJ, SJ	1977-84, 9999	02-05, 07-09
016	Sunbird (1985-1994 only) /J-2000/Sunfire (1995 on)	LE, SE, GT, 2000 Convertible, 2J, S, SE, GT, 1SA, 1SB, 1SC, 1SV	1982-2005, 9999	01-09

Codes	Models	Includes	Model Years	Body Types
017	6000	STE, SE, LE	1982-91, 9999	02, 04, 06, 08, 09
018	Grand AM	SE, LE, GT, GT1, SE1, SE2, SC/T Package	1973-2005, 9999	02, 04, 08, 09
019	G5	Base, GT	2007-10, 9999	02
020	Grand Prix (FWD)	LE, SE, STE, GT, McLaren Turbo, GTP, Limited Edition, 40 th Anniversary Edition, GXP	1988-2008, 9999	01, 02, 04, 08, 09
022	G6	Base, GT, GTP, Value Leader, GXP	2005-10, 9999	01, 02, 04, 08, 09
023	Solstice	GXP	2006-10, 9999	01, 02, 09
024	G8	GT, GXP	2008-10, 9999	04
025	G3	--	2009-10, 9999	04, 05, 09

Codes	Models	Includes	Model Years	Body Types
031	Lemans (1988 on)	LE, SE, Tempest Canadian	1988-93, 9999	01-09
032	Vibe	GT, AWD, HB	2003-10, 9999	06
398	Other (automobile)	Torpedo, Streamliner, Chieftain Star Chief, Super Chief	1946-2010, 9999	01-09, 10
399	Unknown (automobile)	--	1926-2010, 9999	01-09, 10

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Aztek	GT, SE, 1SA, 1SB, 1SC, Rally Edition	2001-05, 9999	14
403	Torrent	GXP	2006-09, 9999	14
441	Trans Sport/ Montana/SV6	SE, Montana, Extended, Versatrak, 1SV, 1SA, 1SX, 1SY, 1SE, Chrome Sport,	1990-2009, 9999	20
499	Unknown (light truck)	--	1990-2009, 9999	14, 20, 49

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (PONTIAC)	--	1951-2010, 9999	49

MAKE: Porsche (45) (PORS)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	911/996	L, S, E, T, SC, Carrera (2, 4, Cabriolet, S, Targa, T), GT, Slopenose, 4S, Targa, Speedster, Turbo (Base, S, S Exclusive, Cabriolet), B series, S-Coupe, Cabriolet (S), GT2, GT3 (RS), GT, GTS, 4 GTS (Carrera/Targa)	1965-2019, 9999	01, 02, 09
032	912	1600, E, T	1966-69, 1976, 9999	01, 02, 09
033	914	1.7, 1.8, 2.0, S, 914/4/6	1970-76, 9999	01
034	924	Turbo, S	1977-88, 9999	01-03, 09
035	928	S, S4, GT, GTS	1978-95, 9999	02, 03, 09
036	930	Turbo	1979	02
037	944	Turbo, S, S2	1983-91, 9999	01-03, 09
038	959	Not Imported to U.S.	1989-94, 9999	01-03, 09
039	968	--	1992-95, 9999	01, 02, 09
040	986/Boxster	Boxster, Boxster Cabriolet, S Roadster, S Anniversary, Limited Edition, Spyder, Black Edition, GTS	1997-2016, 9999	01
041	Cayman	S, Hybrid, Black Edition, R, GTS, GT4	2006-16, 9999	02
042	Panamera	S, 4, 4S, Turbo, Turbo S, Hybrid, GTS, S, Platinum Edition, Executive, Edition, Exclusive, Sport Turismo (Base/4S/E-Hybrid/S E-Hybrid/Turbo)	2010-19, 9999	05, 06, 09

Codes	Models	Includes	Model Years	Body Types
043	918	Spyder, Weissach Pkg	2013-17, 9999	01, 02, 09
044	718	Cayman (Base, S, GTS), Boxster (Base, S, GTS)	2017-19, 9999	01, 02, 09
398	Other (automobile)	Spyder, Speedster (prior to '65), 356 (A, B, C) Grund, America, Super, 1500	1948-2019, 9999	01-03, 05, 09
399	Unknown (automobile)	--	1948-2019, 9999	01-03, 05, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Macan	S, S Diesel, Turbo, GTS	2014-19, 9999	14
421	Cayenne	Turbo, S, Titanium, GTS (PD Edition), Transsyberia, Hybrid, Diesel, E-Hybrid	2003-19, 9999	15
499	Unknown (light truck)	--	2003-19, 9999	14, 15, 19

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (PORSCHE)	--	1965-2019, 9999	99

MAKE: Renault (46) (RENA)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	LeCar	R-5, R5TL, GTL, TL, DLX	1976-83, 9999	02-05, 07-09
032	Dauphine/10/R-8 Caravelle	all models, R-1190, R8 - 1100	1955-71, 9999	01, 02, 04, 08, 09
033	12	R-12L, R-12TL/GTL	1972-77, 9999	04, 06, 09
034	15	R-15TL	1973-76, 9999	02, 03, 09
035	16	R-16, R-1152	1969-72, 9999	06
036	17	R17, Gordini Coupe, R17TL	1972-80, 9999	01, 02, 09

Codes	Models	Includes	Model Years	Body Types
037	18i/Sportwagon	R18i, Deluxe, DLX	1981-86, 9999	04, 06, 09
038	Fuego	TL, TS, GTL, GTS, Turbo	1982-85, 9999	02, 03, 09
039	Alliance/Encore GTA, Convertible	L, DL, Limited, X-37	1983-87, 9999	01-05, 07-09
041	Alpine	GT, GTA Coupe, Not imported to U.S.	1971-90, 9999	02, 03, 09
044	Medallion **	DL, LX	1987	04, 06, 09
045	Premier**	--	1987	04
398	Other (automobile)	Juvaquatre, 4CV, Fregate, Domaine	1946-90, 9999	01-09, 10, 11
399	Unknown (automobile)	--	1946-90, 9999	01-09, 10, 11

** NOTE: Medallion and Premier listed under [Eagle](#) after 1987.

MAKE: Saab (47) (SAA)

AUTOMOBILES

Codes	Models	Includes	Model Years	Body Types
031	99/99E/900	S, GL, GLE, L, LE, 2CM, 4CM Turbo, Cabriolet, 2EM, 4EM, CM, SE	1969-98, 9999	01-05, 07-09
032	Sonnett	II, III, 97	1967-74, 9999	02
033	95/96	V-4, M, S, M-S, Special	1959-73, 9999	02, 06, 09
034	9000	S, Turbo, CS, CD, CDE, E, AERO, CSE	1985-98, 9999	04, 05, 09
035	9-3/9-3x	SE (Hot), Viggen, Linear Arc, Vector, Aero, 2.0T, SportCombi, Combi, Estate	1999-2012, 9999	01, 03-07, 09
036	9-5	SE, Aero, 2.3T, Set, Arc, Linear, Aero, SportCombi, 2.5T, Turbo X, Vector	1999-2012, 9999	02, 04, 06, 08, 09
037	9-2x	Linear, Aero	2005-06, 9999	05
038	9-4x	--	2009-12, 9999	06
398	Other (automobile)	Monte Carlo 850, GT850, GT750, 92/93	1950-2012, 9999	01-09

Codes	Models	Includes	Model Years	Body Types
399	Unknown (automobile)	--	1950-2012, 9999	01-09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	9-7x	Arc, Linear, 4.2i, 5.3i, Altitude Edition, Aero	2005-11, 9999	14

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (SAAB)	--	1950-2012, 9999	49

MAKE: Saturn (24) (STRN)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	SL	SL, SL1, SL2	1991-2002, 9999	04
002	SC	SC1, SC2	1991-2002, 9999	02, 09, 17
003	SW	SW1, SW2	1993-2001, 9999	06
004	EV1/EGV1*	Electric Vehicle (Gen II)	1997-2003, 9999	02
005	LS	LS, LS1, LS2, L100/L200/ L300, L300-1/2/3	2000-05, 9999	04
006	LW	LW1, LW2, LW200/ LW300-1/2/3	2000-04, 9999	06
007	Ion	Quad-coupe, I3, Red Line	2003-07, 9999	04, 09, 17
008	Sky	Red Line	2007-10, 9999	01
009	Aura	XE, XR, Hybrid	2007-10, 9999	04
010	Outlook	XE, XR	2007-10, 9999	06
011	Astra	XE, XR, Sport	2008-10, 9999	03, 05, 09
398	Other (automobile)	--	1991-2010, 9999	02-06, 08, 09, 17

Codes	Models	Includes	Model Years	Body Types
399	Unknown (automobile)	--	1991-2010, 9999	02-06, 08, 09, 17

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Vue	Red Line, 4, V6, Green Line, XE, XR-4, XR-V6	2002-10, 9999	14
441	Relay	2, 3	2005-07, 9999	20
499	Unknown (light truck)	--	2002-10, 9999	14, 20

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (SATURN)	--	1991-2010, 9999	49

MAKE: Scion (67) (SCIO)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	xB (2012 on. See Toyota for 2004-2011)	1.0, 2.0 Series, Limited Edition, 10th Anniversary	2012-15, 9999	06
032	tC (2012 on. See Toyota for 2005-2011)	1.0 Series, Limited Edition, 8.0 Series, 10th Anniversary	2012-16, 9999	03
033	xD (2012 on. See Toyota for 2007-2011)	Limited Edition, 10th Anniversary	2012-14, 9999	05
034	iQ (2012 on. See Toyota for 2010-2011)	10th Anniversary	2012-14, 9999	03
035	FR-S	10th Anniversary	2013-16, 9999	02
036	iA	--	2016	04
037	iM	--	2016	05
398	Other (automobile)	--	2012-16, 9999	02-06, 08, 09

Codes	Models	Includes	Model Years	Body Types
399	Unknown (automobile)	--	2012-16, 9999	02-06, 08, 09

MAKE: Smart (65) (SMRT)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Fortwo	Pure, Prime, Passion, Proxy, Electric, Brabus, EQ	2008-19, 9999	01, 02, 09
398	Other (automobile)	--	2008-19, 9999	01, 02, 09
399	Unknown (automobile)	--	2008-19, 9999	01, 02, 09

MAKE: Sterling (61) (STLG)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	827	Li, SL, S, SLI	1987-91, 9999	04, 05, 09
398	Other (automobile)	825, S, SL, Oxford Edition	1987-91, 9999	04, 05, 09
399	Unknown (automobile)	--	1987-91, 9999	04, 05, 09

MAKE: Subaru (48) (SUBA)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Loyale (1990 on)/DL/ FE/G/GF/GL/GLF/ STD	4-wheel drive, S, 1300, 1400, 1600, 1800, A15L, A44L, Touring Wagon, Turbo	1972-94, 9999	02-09
032	Star	FF -1 Star, 1100	1971	02, 04, 06, 08, 09
033	360	--	1958-70, 9999	02

Codes	Models	Includes	Model Years	Body Types
034	Legacy/Outback (prior to 2003 only; see 045 for 2003 on)	L, LS, LSI, 4WD, Outback (Limited, Ltd, Sport, VDC, L.L. Bean Edition), GT, Brighton, Sport Utility Sedan (Ltd.), 30 th Anniv. Outback, H-6, 35 th Anniv., 2.5, 2.5i (Base, Premium, Sport, Limited) GT, spec. B, 3.0R, Limited, Premium, Sport, 3.6R (Base, Limited)	1990-2019, 9999	04-06, 09
035	XT/XT6	4WD Turbo, convertible, DL, GL	1985-91, 9999	01, 02, 09
036	Justy	DL, GL, 4WD	1987-94, 9999	03, 05, 07, 09
037	SVX	LS, LSL, XR, Lsi	1992-97, 9999	02
038	Impreza	L, LS, Brighton, Outback Sport, RS, L-Sport, LX, 2.5i/RS/S/TS/GT, WRX, WRX Sport/STI/SS/TR, Limited Edition, Premium, SE, STI, STI-S, 2.0i (Premium, Limited, Sport, Sport Limited)	1993-2019, 9999	02, 04-06, 08, 09
039	RX	--	1986-89, 9999	03, 04, 09
043	Brat	DL, GL	1978-87, 9999	10
044	Baja	Sport, Turbo	2003-07, 9999	10
045	Outback (2003 on; see 034 for prior to 2003)	H6-VDC, 35 th Anniversary Edition, 2.5, 2.5i (Premium, Limited), 2.5XT, 3.0R, Special Edition, VDC Limited, Sport, L.L. Bean Edition, 3.0R. Premium, 3.6R (Limited)	2003-19, 9999	04-06, 09
046	BRZ	Premium, Limited, tS	2013-19, 9999	03
047	WRX (2015 on; see 038 for prior to 2015)	Premium, Limited, STi (Base, Limited, Type RA)	2015-19, 9999	04
398	Other (automobile)	--	1968-2019, 9999	01-09, 10

Codes	Models	Includes	Model Years	Body Types
399	Unknown (automobile)	--	1968-2019, 9999	01-09 , 10

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Forester	L, S, 2.5i, 2.0XT, 2.5X, 2.5XS, 2.5XT, L.L. Bean Edition, Limited (Plus), Sport, Premium, Touring	1997-2019, 9999	14
402	B9 Tribeca	Base, Limited, Special Edition, Premium, Touring, 3.6R	2006-14, 9999	14
403	XV Crosstrek	2.0i Premium/Limited, Hybrid (Premium, Touring)	2013-19, 9999	14
421	Ascent	Base, Premium, Limited, Touring	2019	15
499	Unknown (light truck)	--	1997-2019, 9999	14

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (SUBARU)	--	1958-2019, 9999	49

MAKE: Suzuki (53) (SUZI)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Swift/SA310	Gti, GTX, GLX, GA, GT, GL	1989-2001, 2010, 9999	03-05 , 07 , 09
032	Esteem	GL, GLX, GLX+	1995-2002, 9999	04 , 06 , 09
033	Aerio	S, G, LX, SX (Wagon), Luxury	2002-07, 9999	04 , 06 , 09
034	Forenza	S, LX, EX, Premium, Convenience, Popular	2004-08, 9999	04 , 06 , 09

Codes	Models	Includes	Model Years	Body Types
035	Verona	S, LX, EX, Luxury	2004-06, 9999	04
036	Reno	S, LX, EX, Premium, Convenience	2005-08, 9999	05
040	SX4/SX4 Crossover	Base, Sport, Convenience, Touring, L, S, SD, SE, GTS, LE, SportBack, JX, Premium, Tech Value Package	2007-13, 9999	04, 05, 09
041	Kizashi	GTS, S, SE, SLS, Sport	2010-13, 9999	04
398	Other (automobile)	800 Fronte, Alto	1981-2013, 9999	03-07, 09
399	Unknown (automobile)	--	1981-2013, 9999	03-07, 09

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	Samurai	Standard, Deluxe, JL	1986-96, 9999	14
402	Sidekick/Vitara/ Vitara V6	JS, JX, JLX, JLS, Sport, Grand Vitara (1999-2002 only; see model 404 for 2003 on) (JS, JLX, JLS, Ltd.), XL-7 (2002 only; see model 405 for 2003 on), LX	1989-2004, 9999	14
403	X-90	--	1996-98, 9999	14
404	Grand Vitara (2003 on; see model 402 for models prior to 2003)	JS, JLX, JLS, Limited, GX, LX, XV6, Premium, Xsport, Luxury, Special Edition, Ultra Adventure Edition	2003-13, 9999	14
405	XL-7 (2003 on; see 402 for 2002 model year)	Standard, Touring, Limited, GX, LX, Premium, Luxury	2003-09, 9999	14
481	Equator	Comfort, Premium, Sport, RMZ-4	2009-13, 9999	34
498	Other (light truck)	Jimmy	1981-2013, 9999	14, 34

Codes	Models	Includes	Model Years	Body Types
499	Unknown (light truck)	--	1981-2013, 9999	14 , 34

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	--	1970-2013, 2019, 9999	80 , 81 , 83 , 84 , 88 , 89
702	51-124cc	--	1970-2019, 9999	80 , 81 , 83 , 84 , 88 , 89
703	125-349cc	--	1969-2019, 9999	80 , 83 , 84 , 88 , 89
704	350-449cc	--	1970-93, 2000- 19, 9999	80 , 83 , 84 , 88 , 89
705	450-749cc	--	1969-2019, 9999	80 , 83 , 84 , 88 , 89
706	750cc-over	--	1970-2019, 9999	80 , 83 , 84 , 88 , 89
709	Unknown cc	--	1969-2019, 9999	80-84 , 87-89

ALL TERRAIN VEHICLES

Codes	Models	Includes	Model Years	Body Types
731	0-50cc	--	1969-87, 2002- 04, 2009-19, 9999	90 , 96
732	51-124cc	--	1969-2004, 2009- 19, 9999	90 , 96
733	125-349cc	--	1969-2019, 9999	90 , 96
734	350cc or greater	--	1969-93, 1998- 2019, 9999	90 , 96
739	Unknown cc	--	1969-2019, 9999	90 , 96

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (SUZUKI)	--	1969-2019, 9999	49, 99

MAKE: Toyota (49) (TOYT)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Corona	Mark II, Custom, 1900, 2000, Deluxe	1966-83, 9999	02, 04, 06, 08, 09
032	Corolla	1100, 1200, 1600, SR-5, LE, DX, CE, Deluxe, Custom, FX, FX16, Sport, GTS, VE, S, XRS, XLE, CE, L, Special Edition, LE Eco, 50th Anniversary, XSE, iM	1969-2019, 9999	02-09
033	Celica	1900, 2000, GT, ST, GTS, VE, GT-S	1971-2006, 9999	01-03, 09
034	Supra	Celica Supra, Soarer, Turbo	1979-98, 9999	03
035	Cressida	--	1978-92, 9999	04-06, 09
036	Crown	2300, 2600, Toyopets	1958-71, 9999	02, 04, 06, 08, 09
037	Carina	2000	1972-73, 9999	02
038	Tercel	Corolla Tercel, 4WD, EZ, DX, LE, DLX, CE	1980-99, 9999	02-09
039	Starlet	--	1981-84, 9999	03
040	Camry	LE, Deluxe, XLE, DLX, SE, All- Trac, CE, SE, Limited Edition, L, Hybrid (CVT/LE/XLE/SE), XSE, Special Edition	1983-2019, 9999	02, 04-06, 08, 09
041	MR-2/MR Spyder	Super Charged	1984-95, 2000- 07, 9999	01, 02, 09
042	Paseo	Turbo, T-bar	1992-97, 9999	01, 02, 09

Codes	Models	Includes	Model Years	Body Types
043	Avalon	XL, XLS, Limited, Touring, XLE, Hybrid, Premium, Sport, Plus	1995-2019, 9999	04
044	Solara	Camry Solara (SE, SLE, Sport)	1999-2009, 9999	01, 02, 09
045	ECHO	--	2000-05, 9999	02, 04, 08, 09
046	Prius *	*Electric hybrid, Touring, II, III, IV, V (2/3/4/5), (CVT), 3 rd Generation (2/3/4/5), Plug-In (Base/Advanced), c (1/2/3/4, L, LE), Persona Series, Two, Two Eco, Three, Three Touring, Four, Four Touring, Prime (Plus, Premium, Advanced)	2001-19, 9999	03-06, 07, 09
047	Matrix	Base, XR, XRS, STD, S, SD, L	2003-13, 9999	06
048	Scion xA	RS 1.0	2004-06, 9999	05
049	Scion xB (2004-2011 only. See 67-031 for 2012 on.)	1.0, 2.0 Series	2004-11, 9999	06
050	Scion tC (2005-2011 only. See 67-032 for 2012 on.)	1.0 Series	2005-11, 9999	03
051	Yaris	Liftback, S, CE, HB, LB, LE, RS, SE, L, iA, XLE	2007-19, 9999	03-05, 09
052	Scion xD (2007-2011 only. See 67-033 for 2012 on.)	--	2007-11, 9999	05
053	Venza	LE, XLE, Limited	2009-15, 9999	05
054	Scion iQ (2010-2011 only. See 67-034 for 2012 on.)	--	2010-11, 9999	04
055	Mirai	--	2016-19, 9999	04
056	86	TRD Special Edition	2017-19, 9999	03

Codes	Models	Includes	Model Years	Body Types
398	Other (automobile)	2000 GT Coupe (1960s), Sports 800, Viper, Tiara	1960-2019, 9999	01-09 , 10
399	Unknown (automobile)	--	1960-2019, 9999	01-09 , 10

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	4-Runner	SR5 (Base, Limited), Limited, Sport, Trail, TRD Pro, TRD Off- Road (Base, Premium)	1984-2019, 9999	14
402	RAV4*	L, LE, EVs-electric*, Sport, Limited, Hybrid (Limited, SE, XLE), XLE, Platinum, Adventure, SE	1996-2019, 9999	14
403	Highlander	Limited, Hybrid, Sport, SE, Plus, LE, LE Plus, XLE, Platinum	2001-19, 9999	14
404	FJ Cruiser	Baja 1000, FJ, SE, TRD, AT, MT	2007-14, 9999	14
405	C-HR	XLE, XLE Premium	2018-19, 9999	14
421	Land Cruiser	4WD	1964-2019, 9999	15
422	Sequoia	SR5, Limited, Platinum	2001-19, 9999	15
441	Minivan (1984-90)/ Previa (1991 on)	LE, Cargo, DX, XLE	1984-97, 9999	20
442	Sienna	CE, LE, XLE, Symphony, Limited, SE, L	1998-2019, 9999	20
471	Pickup	SR5, Xtracab, Sport, LN44, Chinook, Wonder Wagon	1974-95, 9999	34 , 39 , 40 , 42
472	Tacoma	SR5, Xtracab, Limited, PreRunner, Side Step, Double Cab, S-Runner, 2.7L, 4.0L, X- Runner, T/X, T/X Pro, Access Cab, TRD (Sport, Pro, Off-Road), SR	1995-2019, 9999	34 , 39 , 40 , 42

Codes	Models	Includes	Model Years	Body Types
481	T-100	DX, SR5, Limited, Xtracab	1993-98, 9999	34 , 39 , 40 , 42
482	Tundra	SR5 (Access Cab), LTD (Access Cab), Double Cab, Darrell Waltrip Special Edition, CrewMax, 4.0L, 4.6L, 5.7L, Limited, SR, 1794 Edition, Platinum, TRD Pro	1999-2019, 9999	34 , 39 , 40 , 42
498	Other (light truck)	--	1970-2019, 9999	14 , 15 , 19 , 20 , 29 , 34 , 39
499	Unknown (light truck)	--	1973-2019, 9999	14 , 15 , 19 , 20 , 34 , 39 , 40 , 42 , 48 , 49

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (TOYOTA)	--	1966-2019, 9999	49

MAKE: Triumph (50) (TRIU)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Spitfire	I, II, III, IV, 1500	1962-81, 9999	01 , 02 , 09
032	GT-6	MK3	1967-73, 9999	01 , 02 , 09
033	TR4	TR2, TR3, TR4A	1958-68, 9999	01 , 02 , 09
034	TR6	--	1969-76, 9999	01 , 02 , 09
035	TR7/TR8	--	1975-81, 9999	01 , 02 , 09
036	Herald	Vitesse	1960-74, 9999	01 , 02 , 06 , 09
037	Stag	--	1971-73, 9999	01 , 02 , 09
398	Other (automobile)	1800, 2000, Mayflower, Renown, 1200	1946-81, 9999	01 , 02 , 04 , 08 , 09
399	Unknown (automobile)	--	1946-81, 9999	01 , 02 , 04 , 08 , 09

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	--	1965-83, 9999	80
702	51-124cc	--	1965-83, 9999	80
703	125-349cc	--	1950-74, 9999	80
704	350-449cc	--	1950-71, 9999	80
705	450-749cc	--	1950-2019, 9999	80
706	750cc or greater	--	1950-2019, 9999	80
709	Unknown cc	--	1950-2019, 9999	80
799	Unknown (motorcycle)	--	1950-2019, 9999	80

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (TRIUMPH)	--	1950-2019, 9999	99

MAKE: Volkswagen (30) (VOLK)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Karmann Ghia	--	1954-75, 9999	01, 02, 09
032	Beetle 1300/1500	Flat windshield, 94.5 WB	1948-77, 9999	01, 02, 09
033	Super Beetle	Curved windshield 95.3 WB	1971-80, 9999	01, 02, 09
034	411/412	Squareback/Fastback	1971-74, 9999	03, 04, 09
035	Squareback/Fastback	Type 3, 1600	1965-74, 9999	02
036	Rabbit	L, GTI, Sport, LS, Custom, DL, Deluxe, S	1975-84, 2006- 09, 9999	01, 03, 05-07, 09
037	Dasher	--	1974-81, 9999	03, 05-07, 09
038	Scirocco	16V	1975-88, 9999	02

Codes	Models	Includes	Model Years	Body Types
040	Jetta/Jetta SportsWagen	III, GL (TDI, 1.9L, 2.0L), GLI (2.0T, VR6), GLS (1.8T, 1.8L/1.9L/2.0L/2.8L/TDI/VR6), GT, Carat, TDI, GLX (VR6/2.8L), Turbo Diesel, 2.5L Wolfsburg Edition, S/SE/SEL, Value Edition, 2.0T, 3.6, Autobahn, Hybrid (SE, SEL, SEL Premium), Premium, Edition 30, 1.4T, Sport	1981-2019, 9999	02, 04, 06, 08, 09
041	Quantum	Synco	1982-88, 9999	02, 04, 06, 08, 09
042	Golf/Cabriolet/Cabrio/GTI/ GLI	Golf II, GTI (GLS, GLX 1.8T/2.0T/2.8L), GT, GL (1.8T/VR6/2.0L/1.9L/TDI), Golf III, GLS (1.8T/1.8L/1.9L/2.0/TDI), Wolfsburg, Cabrio (GL, GLS, GLX), 20 th Anniversary, R32, MkV, Convenience, R, 2.5L, Driver's Edition, SE, SEL, Autobahn, Launch Edition, SportWagen (S, SE, SEL), eGolf (SE, SEL Premium), Alltrack (S, SE, SEL), Alltrack	1985-2019, 9999	01, 03, 05-09
043	Rabbit Pickup	Car-based pickup	1980-83, 9999	10
044	Fox	GL	1987-94, 9999	02, 04, 06, 08, 09
045	Corrado	--	1989-94, 9999	02
046	Passat (CC - 2008 thru 2011; see 052 for 2012 on)	GL, GLS (1.8T, Synchrony, V6), TDI, GLX (1.8T, 2.0T, W8, Synchrony, V6), 4MOTION, 3.6 GL, Value Edition, CC, Highline, Komfort, 2.5 (S/SE), Wolfsburg Edition, Sport,	1990-2019, 9999	04, 06, 09

Codes	Models	Includes	Model Years	Body Types
		Premium, Clean Diesel, SEL, R-Line		
047	New Beetle	GL GLS TDI, 1.8T/1.8L/1.9L/2.0L/2.5/2.5L Syncro/V6, GLX (1.8T), Turbo, Turbo S, Fender Edition, Sun and Sound, R-Line, GSR, Clean Diesel, Classic, SE, SEL, Dune, #PinkBeetle, Coast	1998-2010, 2012-19, 9999	01 , 03 , 09
048	Phaeton	3.2L, 4.2L, V6, V8, W12	2002-11, 9999	04
051	Eos	2.0T, 3.2L, Executive, Komfort, Luxury, Turbo, VR6, Sport, Final Edition	2006-16, 9999	01
052	CC (For 2012 on. See model 046 for 2008-2011.)	Luxury, Sport, Sport Plus, VR6, R-Line, 2.0T, 4MOTION, Executive, V6	2012-17, 9999	04
053	Arteon	--	2019	05
398	Other (automobile)	--	1965-2019, 9999	01-09 , 10
399	Unknown (automobile)	--	1956-2019, 9999	01-09 , 10

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	The Thing (181)	--	1973-75, 9999	14
402	Tiguan	S, SE, SEL, R-Line, 4MOTION, 2.0T, Wolfsburg, Sport, Premium	2008-19, 9999	14
403	Atlas	S, V6 (S, 4MOTION, Launch Edition, SE)	2018-19, 9999	14

Codes	Models	Includes	Model Years	Body Types
421	Touareg/Touareg 2	V6, V8, V10, VR6 FSI, Lux, Executive, Hybrid, Sport, R- Line, X Special Edition, TDI, Wolfsburg	2003-17, 9999	15
441	Vanagon/Camper	Bus, Kombi, Van	1955-91, 9999	20
442	Eurovan	GLS, MV, Camper, Weekender Package	1992-04, 9999	20
443	Routan	S, SE, SEL Premium/RSE	2009-13, 9999	20
498	Other (light truck)	--	1967-2019, 9999	14, 15, 19, 20
499	Unknown (light truck)	--	1965-2019, 9999	14, 15, 19, 20, 49

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2019, 9999	92, 93, 97
999	Unknown (VOLKSWAGEN)	--	1956-2019, 9999	49

MAKE: Volvo (51) (VOLV)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	122	S	1958-68, 9999	02, 04, 06, 08, 09
032	140/142/144/145 *	S, E, GL, GLS, Deluxe	1968-74, 9999	02, 04, 06, 08, 09
033	164	S, E	1970-75, 9999	04
034	240 series*/DL/GL/GLT	242, 244, 245, DL, GL, GLT, Deluxe	1975-93, 9999	02, 04, 06, 08, 09
035	260 series/GLE	264, 265, 262, c, Volvo Coupe, Volvo Diesel	1976-82, 9999	02, 04, 06, 08, 09, 12
036	1800	E, S, ES, P1800	1960-73, 9999	02, 06, 09
037	PV544	PV444	1947-65, 9999	04, 06, 09

Codes	Models	Includes	Model Years	Body Types
038	760/780	GLE, Turbo, Bertone Coupe	1983-92, 9999	02 , 04 , 06 , 08 , 09 , 12
039	740	GLE, GT, Turbo, GL, SE	1983-92, 9999	04 , 06 , 09
040	940	GLE, Turbo, SE	1991-95, 9999	04 , 06 , 09 , 12
041	960	--	1992-97, 9999	04 , 06 , 09 , 12
042	850	GLT, Turbo, T-5, GTAS, GTMS Cross Country	1993-97, 9999	04 , 06 , 09
043	70 Series (For XC70 for 2014 on, use model code 402)	C70 (LT, HT, T5), S70 (GLT, T5, AWD) V70 (R, SC Cross Country, GLT, T5, M, 2.4T, 2.4, 2.5T, T6, R, 3.2) LPT, HPT, XC70	1998-2013, 9999	01 , 02 , 04 , 06 , 08 , 09
044	90 Series	S90, V90	1998	04 , 06 , 09
045	80 Series	S80 (2.9, T6, Executive, Premier) 2.5, 2.5T, 3.2, V8	1999-2017, 9999	04
046	40 Series	S40, V40, LSE, 2.5i, T5, 2.4i, R- Design	2000-11, 9999	04 , 06 , 09
047	60 Series	S60 (2.4T, 2.4, 2.5 AWD, T5, Polestar), 2.4M, 2.5T, R, T5, T6, R-Design, Drive-E, Cross Country, Dynamic, Inscription, Polestar	2001-19, 9999	04
048	V50	2.4i, T5, R-Design	2005-11, 9999	06
049	C30	1.0, 2.0, T5, R-Design	2008-13, 9999	03
050	XC60 (For 2008-2018 only. For model years 2019 on, see 51-404.)	3.2, T5 (Dynamic, Inscription), T6 (Dynamic Inscription, R- Design), R-Design, Drive-E, Momentum, Plug-In Hybrid	2008-18, 9999	06
051	V60	T5, T6, R-Design, Drive-E, Cross Country, Polestar, Dynamic, Momentum, Inscription	2014-19, 9999	06
052	V90	Cross Country (Volvo Ocean Race, Inscription, R-Design)	2017-19, 9999	06

Codes	Models	Includes	Model Years	Body Types
053	S90	T5 (Momentum, Inscription), T6 (Momentum, Inscription)	2017-19, 9999	04
398	Other (automobile)	--	1958-2019, 9999	01-09 , 10-12
399	Unknown (automobile)	--	1958-2019, 9999	01-09 , 10-12

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
401	XC90	2.5T (AWD), T6 (AWD), V8, 3.2, R-Design, SVR7, First Edition, T5, Plug-In, Excellence, T8, Momentum, Inscription, Excellence	2003-19, 9999	14
402	XC70 (For 2014 on. For prior to 2013, use model code 043)	3.2, T6, Drive-E	2014-17, 9999	14
403	XC40	Momentum, R-Design, Plug- In Hybrid	2018-19, 9999	14
404	XC60 (For 2019 on. For model years 2008- 2018, see 51-050.)	Momentum, R-Design, Inscription	2019	14
499	Unknown (light truck)	--	2003-19, 9999	14

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	--	1981-93, 1996- 2019, 9999	60-64 , 66 , 78
882	Medium/Heavy – COE low entry	--	1981-93, 1996- 2004, 9999	60-64 , 66 , 78
883	Medium/Heavy – COE high entry	--	1981-93, 1996- 2004, 9999	60-64 , 66 , 78

Codes	Models	Includes	Model Years	Body Types
884	Medium/Heavy – Unknown engine location	--	1981-93, 1996- 2019, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1981-93, 1996- 2019, 9999	60-64, 66, 78
898	Other (medium/heavy truck)	--	1981-93, 1996- 2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1981-2005, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	2014-19, 9999	50-52, 58, 59
988	Other (bus)	--	1965-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-2019, 9999	50-52, 58, 59

****Use “981” (bus) if the frontal plane or the engine location is unknown.**

OTHER AND UNKNOWN

Codes	Models	Includes	Model Years	Body Types
998	Other (Vehicle)	--	1958-2019, 9999	92, 93, 97
999	Unknown (VOLVO)	--	1958-2019, 9999	49, 79, 99

MAKE: Yugo (57) (YUGO)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	GV/GVL/GVX	All models, Cabriolet	1986-92, 9999	01-03, 09

MAKE: Other Domestic Manufacturers (29)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
001	Studebaker/Avanti	Lark, Gran Turismo, Hawk, Cruiser, all associated subseries, light pickup, Studebaker XUV/XUT, Lister	1940-91, 2001- 07, 9999	01, 02, 04, 06, 08, 09, 16, 34, 39
002	Checker	Marathon, Superba, Taxi, Aerobus	1965-82, 9999	04, 06, 09, 12
003	Panoz	Esperante (Magnussen Edition, Spyder [Base, GT], Convertible, GTS), GT, GTS, GTLM, JRD, Abruzzi, Roadster, GTR1, 25th Anniversary, Spyder (GT), Avezzano	2000-19, 9999	01, 02, 09
004	Saleen	S7, S281, 435S, S302 (White Label, Yellow Label, Black Label), 570, 620, FOURSIXTEEN	2001-15, 9999	01, 02, 04, 08, 09
005	Tesla	Roadster (Base, Sport) Model S (Base, Signature, Performance), Model X, Super Charger, Model 3	2008-19, 9999	01, 04, 05, 09, 14
398	Other (automobile)	Desoto, Excalibur, Stutz, FiberFab, Hudson, Packard, Consulier, Gatsby, Auburn, Phaeton, Citicar, Clenet	1930-91, 9999	01-09, 10-13
399	Unknown Make	--	1940-2019, 9999	01-09, 10-13, 14, 16, 19, 39

MAKE: Other Import (69)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
031	Aston Martin	Lagonda, Vantage, Volante, Saloon, DB Mark III, DB4, DB4GT, DB5, DB6, DB7 (Heritage/Vantage/Volante),	1950-2019, 9999	01-09

Codes	Models	Includes	Model Years	Body Types
		V12 (Vanquish S/Zagato/Vantage, Vantage S), V8 (Vantage/Vantage S), DB9 (Carbon Edition, GT), Rapide (S), Cygnet, Carbon Black, One-77, Virage (Coupe/ Volante), DBS (Coupe/ Volante), CC100, Vantage GT, Rapid S, Vulcan, GT12, DB11		
032	Bricklin	--	1965-91, 9999	02
033	Citroen	--	1965-91, 9999	02-09
034	DeLorean	--	1981-83, 9999	02
035	Ferrari	F355 (Berlinetta, GTS, Spider, F1), F430, F456 (GTA, M, GT, MGTA), F550 (Maranello, Barchetta Pininfarina), 360/430 (Spider, Modena, Challenge) Maranello, Berlinetta, MGT (Vintage), Enzo, Challenge Stradale, 575M, 612 Scaglietti, Superamerica, 599 GTB/GTO, California (T), 418 Italia, FF, SA Aperta, 458 (Spider/Italia/Challenge/Speciale [A]), F12 Berlinetta, FF, LaFerrari, 488 GTB/Spider/Pista, GTC4Lusso, F12TDF, F60 America	1965-2019, 9999	01-05, 07-09
036	Hillman	--	1965-91, 9999	01-09
037	Jensen	Healy-Interceptor, 541R	1965-91, 9999	01-05, 07-09

Codes	Models	Includes	Model Years	Body Types
038	Lamborghini	Countach, 5000S, Jalpa, Diablo, Miura, Murciélago (LP640), Galladoro, LP 550- 2/560-4/570-4/670-4/700-4, CP, Aventador (J, SV, LP750- 4, Roadster), Sesto Elemento, Spyder, Superlegga, Aventador, Gallardo, Veneo, Huracan (Base, Spyder), 350GT, Urus	1965-2019, 9999	01 , 02 , 04 , 08 , 09 , 14
039	Lotus	Europe, Espirit (V8, GT-3, V8-GT) Elise, Exige, Evora (Range/GTE/400), California, Club Racer, Sport, 2-Eleven, Black, Bespoke, 3-Elevent (430)	1967-2019, 9999	01 , 02 , 03 , 04 , 08 , 09
040	Maserati	Biturbo, Ghibli, 3200 GT, Quattroporte, Spyder GT, Sports GT, Executive GT, 90 th Anniversary, MC12, GranSport, GranTurismo, GranCabrio, Stradale, Kubang, Sport, MC, S, GTS, S Q4, MC Centennial Edition, Levante, Alfier, Trofeo	1965-99, 2002-19, 9999	01-05 , 07-09 , 14
041	Morris	Minor	1965-91, 9999	01-09 , 10
042	Rolls Royce/Bentley	Rolls Royce: Cloud/Shadow series, Silver Spur, Silver Dawn, Silver Spirit, Silver Seraph, Corniche, Park Ward, Phantom (Drophead), Ghost; Bently: (Arnaze, Azure, Continental [GT, Speed Black Edition], Mulliner), Brooklands, Goodwood, EWB, 4, Mulsanne, Flying Spur, Super Sports, Wraith, Dawn, Cullinan, Black Badge, Bentayga	1926-2019, 9999	01 , 02 , 03 , 04 , 08 , 09 , 15

Codes	Models	Includes	Model Years	Body Types
044	Simca	--	1965-91, 9999	01-09
045	Sunbeam	--	1965-91, 9999	01, 02, 04, 08, 09
046	TVR	--	1965-91, 9999	01, 02, 09
048	Destra	--	1985-99, 9999	14, 15, 19
049	Reliant	--	1960-91, 9999	01-09
052	Bertone	X/19	1989-91, 9999	01, 02, 09
053	Lada	--	1965-91, 9999	01-09
054	Mini-Cooper	Mark I, II, III, S, SE, Sport, MC40, Traveller, John Cooper Works, Clubman, Countryman, Paceman, Coupe, All 4, Roadster, Convertible, Plug-In, Signature, Classic, Iconic, Oxford Edition, International Orange Edition	1961-74, 2002-19, 9999	01, 03, 05, 06, 09, 14
055	Morgan (2003 on; Prior to 2003 see 398)	Aero 8, Plus 8, V6, Classic Range, AeroMax, 4/4 Sport, Super Sports Junior, Plus 4, 4 Seater, Aero, Eva GT, 3 Seater, 4/4, Plus 8, SP1, AR Plus 4	2003-19, 9999	01, 02, 09
056	Maybach	57, 57S, 62, 62S, Laudualet, Zeppelin, Guard	2003-14, 9999	04
057	Spyker	C8, Base, T, Laviolette, Aileron, Spyder, Double 12R, Double 12S, C12 Zagato, L2014 M85, D, B6 Venator	2005-15, 9999	01, 02, 09, 17
058	Koenigsegg	CC8S, CCR, CCX, CCXR, CCGT, Trevita, Agera,	2007-19, 9999	01

Codes	Models	Includes	Model Years	Body Types
		CC8S, Agera R/S, Special Edition, Regera, One:1		
061	Mahindra	Scorpio (Lx, Sle, Vls, Vlx)	2010-19, 9999	14 , 34 , 96
062	Caterham	Classic, Roadsport, Academy, Superlight (R300/R400/R500), CSR, Seven (270/280/310/360/420/480/620S/R), SP 300R, Aeroseven, Superflight Twenty, 60 th Anniversary Edition	2011-19, 9999	01
063	McLaren	MP4-12C, P15, 675LT, 540C, 12C GT Spirit, 650S, P1, BP23	2011-19, 9999	01
064	Bugatti	Veyron 164 (Grand Sport, Super Sport), Vitesse, Chiron, Divo	2005-19, 9999	01 , 02 , 09
398	Other (automotive)	Morgan (Prior to 2003; 2003 on see 055), Singer, Gazelle, Fisker, Karma	1928-2019, 9999	01-09 , 10-13 , 17
399	Unknown Make	--	1928-2019, 9999	01-09 , 10 , 19 , 39

Motored Cycles

NOTE: Refer to [Passenger Vehicle section](#) for motored cycles produced by automobile manufacturers ([BMW](#), [Honda](#), [Peugeot](#), [Suzuki](#), [Triumph](#))

MAKE: BSA (70) (BSA)

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	--	1950-72, 9999	80, 81, 83, 84, 88, 89
702	51-124cc	--	1950-72, 9999	80, 81, 83, 84, 88, 89
703	125-349cc	--	1950-72, 9999	80, 83, 84, 88, 89
704	350-449cc	--	1950-72, 9999	80, 83, 84, 88, 89
705	450-749cc	--	1950-72, 9999	80, 83, 84, 88, 89
706	750cc or greater	--	1950-72, 9999	80, 83, 84, 88, 89
709	Unknown cc	--	1950-72, 9999	80, 83, 84, 88, 89

MAKE: Ducati (71) (DUCA)

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	--	1958-65, 9999	80, 81, 84, 88, 89
702	51-124cc	--	1958-65, 9999	80, 81, 84, 88, 89
703	125-349cc	--	1958-65, 9999	80, 88, 89
704	350-449cc	--	1958-65, 2014-19, 9999	80, 88, 89
705	450-749cc	--	1958-93, 1997- 2019, 9999	80, 88, 89

Codes	Models	Includes	Model Years	Body Types
706	750cc or greater	--	1958-2019, 9999	80, 88, 89
709	Unknown cc	--	1958-2019, 9999	80-83, 84, 87, 88, 89

MAKE: Harley-Davidson (72) (HD)**MOTORCYCLES**

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	--	1965-66, 9999	80, 81, 88, 89
702	51-124cc	--	1948-78, 9999	80, 81, 88, 89
703	125-349cc	--	1948-88, 9999	80, 84, 88, 89
704	350-449cc	--	1969-74, 9999	80, 88, 89
705	450-749cc	--	1971-78, 2014-19, 9999	80, 88, 89
706	750cc or greater	--	1932-2019, 9999	80, 82, 87, 88, 89
709	Unknown cc	--	1932-2019, 9999	80-82, 84, 87, 88, 89

MAKE: Kawasaki (73) (KAWK)**MOTORCYCLES**

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	--	1965-82, 9999	80, 81, 83, 84, 88, 89
702	51-124cc	--	1965-2019, 9999	80, 81, 83, 84, 88, 89
703	125-349cc	--	1965-2019, 9999	80, 83, 84, 88, 89
704	350-449cc	--	1975-98, 2003-04, 2006-19, 9999	80, 83, 84, 88, 89
705	450-749cc	--	1972-2019, 9999	80, 83, 84, 88, 89

Codes	Models	Includes	Model Years	Body Types
706	750cc or greater	--	1972-2019, 9999	80, 83, 84, 88, 89
709	Unknown cc	--	1965-2019, 9999	80, 83, 84, 87, 88, 89

ALL TERRAIN VEHICLES

Codes	Models	Includes	Model Years	Body Types
731	0-50cc	--	2003-19, 9999	90, 96
732	51-124cc	--	1970-88, 2003-19, 9999	90, 96
733	125-349cc	--	1970-2019, 9999	90, 96
734	350cc or greater	--	1970-2019, 9999	90, 96
739	Unknown cc	--	1970-2019, 9999	90, 96
998	Other (Vehicle)	--	1965-2019, 9999	91, 96

MAKE: Moto-Guzzi (74) (MOGU)**MOTORCYCLES**

Codes	Models	Includes	Model Years	Body Types
704	350-449cc	--	1965-76, 9999	80, 88, 89
705	450-749cc	--	1965-87, 2004-19, 9999	80, 88, 89
706	750cc or greater	--	1965-2019, 9999	80, 88, 89
709	Unknown cc	--	1965-2019, 9999	80, 88, 89

MAKE: Norton (75) (NORT)**MOTORCYCLES**

Codes	Models	Includes	Model Years	Body Types
704	350-449cc	--	1950-76, 9999	80, 83, 88, 89

Codes	Models	Includes	Model Years	Body Types
705	450-749cc	--	1950-76, 9999	80, 83, 88, 89
706	750cc or greater	--	1950-76, 9999	80, 83, 88, 89
709	Unknown cc	--	1950-76, 9999	80, 83, 88, 89

MAKE: Victory (77) (VCTY)**MOTORCYCLES**

Codes	Models	Includes	Model Years	Body Types
706	750cc or greater	--	1998-2017, 9999	80, 88, 89
707	Electric Motorcycle	--	2017	80, 88, 89
709	Unknown cc	--	1998-2017, 9999	80, 88, 89
998	Other (Vehicle)	--	1998-2017, 9999	89

MAKE: Yamaha (76) (YAMA)**MOTORCYCLES**

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	--	1979-2019, 9999	80, 81, 83, 84, 88, 89
702	51-124cc	--	1972-2019, 9999	80, 81, 83, 84, 88, 89
703	125-349cc	--	1969-2019, 9999	80, 83, 84, 88, 89
704	350-449cc	--	1972-2019, 9999	80, 83, 84, 88, 89
705	450-749cc	--	1971-2019, 9999	80, 83, 84, 88, 89
706	750cc or greater	--	1974-2019, 9999	80, 83, 84, 85, 88, 89
709	Unknown cc	--	1969-2019, 9999	80, 81, 83, 84, 85, 87, 88, 89

ALL TERRAIN VEHICLES

Codes	Models	Includes	Model Years	Body Types
731	0-50cc	--	1965-91, 2005-19, 9999	90 , 96
732	51-124cc	--	1965-2019, 9999	90 , 96
733	125-349cc	--	1965-2019, 9999	90 , 96
734	350cc or greater	--	1993-2019, 9999	90 , 96
739	Unknown cc	--	1965-2019, 9999	90 , 96
998	Other (Vehicle)	Snowmobiles, Golf Carts	1965-2019, 9999	91 , 95 , 96

Trucks**MAKE: Brockway (80) (BROC)****MEDIUM/HEAVY TRUCKS**

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	--	1965-77, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy - COE low entry	--	1965-77, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy - COE high entry	--	1965-77, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1965-77, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1965-77, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1965-77, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-77, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1965-77, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1965-77, 9999	50-52, 58, 59
988	Other (bus)	--	1965-77, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-77, 9999	50-52, 58, 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	Truck-based	1965-77, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-77, 9999	92, 93, 97
999	Unknown (BROCKWAY)	--	1965-77, 9999	99

MAKE: Diamond Reo or Reo (81) (DIAR)**MEDIUM/HEAVY TRUCKS**

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	DC101, C116, M35 (A1, A2, A3)	1950-88, 1993- 99, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	--	1954-75, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	C054-C088	1954-75, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1954-75, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1950-88, 1993- 99, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1950-88, 1993- 99, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1954-75, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1954-75, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1954-75, 9999	50-52, 58, 59
988	Other (bus)	--	1954-75, 9999	50-52, 58, 59
989	Unknown (bus)	--	1954-75, 9999	50-52, 58, 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1954-75, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1950-88, 1993- 99, 9999	92, 93, 97
999	Unknown (DIAMOND REO or REO)	--	1950-88, 1993- 99, 9999	99

MAKE: Freightliner (82) (FRHT)**LIGHT TRUCKS**

Codes	Models	Includes	Model Years	Body Types
461	Sprinter/Advantage	2500 (HC/SHC), 3500 (HC/SHC)	2002-19, 9999	21, 22, 28, 29
462	MT 35 Chassis	--	1985-2013, 9999	22, 40, 42
498	Other (light truck)	--	1985-2019, 9999	20-22, 28, 29, 48
499	Unknown (light truck)	--	1985-2019, 9999	20-22, 28, 29, 48, 49

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
870	Medium Heavy Van- Based Vehicle	Sprinter	2002-19, 9999	55, 61-64
881	Medium/Heavy – CBE	--	1965-2019, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	--	1968-2013, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	--	1965-2013, 9999	60-64, 66, 71, 72, 78

Codes	Models	Includes	Model Years	Body Types
884	Medium/Heavy – Unknown engine location	--	1963-2013, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1965-2013, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1965-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-2019, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1965-2019, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1965-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1965-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-2019, 9999	50-52, 58, 59

****Use code “989” (bus) if the frontal plane or the engine location is unknown.**

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1965-2019, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1963-2019, 9999	92, 93, 97
999	Unknown (FREIGHTLINER)	--	1963-2019, 9999	99

MAKE: FWD (83) (FWD)**MEDIUM/HEAVY TRUCKS**

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	--	1965-2001, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	--	1965-2001, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	--	1965-2001, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1965-2001, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1965-2001, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1965-2001, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-2001, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1965-2001, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1965-2001, 9999	50-52, 58, 59
988	Other (bus)	--	1965-2001, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-2001, 9999	50-52, 58, 59

****Use code “989” (bus) if the frontal plane or the engine location is unknown.**

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1965-2001, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2001, 9999	92, 93, 97
999	Unknown (FWD)	--	1965-2001, 9999	99

MAKE: International Harvester/Navistar (84) (INTL) - (NAVI)**LIGHT TRUCKS**

Codes	Models	Includes	Model Years	Body Types
421	Scout	Scout II, Utility pickup, SS-2, Roadster, 800 series, Traveler, Terra Traveltop,	1962-80, 9999	15
431	Travelall	1010-1210, 100-200	1963-75, 9999	16
466	Multistop Van	Metro RM, MS1510, 120- 160, MS1210	1960-84, 9999	22, 28, 29
481	Pickup	R-100-500, 900A- 1500C/D, 1010-1510	1951-76, 9999	33, 34
498	Other (light truck)	--	1960-84, 9999	15, 16, 19, 22, 28, 29
499	Unknown (light truck)	--	1951-84, 9999	15, 16, 19, 22, 28, 29

MEDIUM/HEAVY TRUCK

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	Loadstar/Fleetstar, Paystar, CBE Transtar, 4200, S- series Mixer, 8100, 8500, 9100, 9200, 9300, 9400, 9900, CXT, RXT, MXT, Lonestar	1963-2019, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	CO, VCO, DCO, 190- 1950, Cargostar, LFM, 5370 (Garbage), CF500/600	1973-2018, 9999	60-64, 66, 71, 72, 78

Codes	Models	Includes	Model Years	Body Types
883	Medium/Heavy – COE high entry	DCO, DCOT, UCO, VCOT, 405-series, COE Transtar, Unistar, Conco 707B, 9600	1961-2018, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1948-2019, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1964-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	Fire truck - R140-R306, CO 8190	1955-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	R153-1853 Loadstar, 1603-1853	1953-2019, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	173FC, 183FC	1972-2019, 9999	50-52, 58, 59
983	Bus**: Rear engine, Flat front	183RE, 193RE-transit	1965-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1953-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1953-2019, 9999	50-52, 58, 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	Truck-based	1965-2019, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1954-2019, 9999	92, 93, 97

Codes	Models	Includes	Model Years	Body Types
999	Unknown (INTL. HARVESTER/ NAVISTAR)	--	1951-2019, 9999	79, 99

MAKE: Kenworth (85) (KW)**MEDIUM/HEAVY TRUCKS**

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	520, 540, T400, T600, T800, C500-550, W900, T300	1947-2019, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	L700	1972-2018, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	K100, K100E, K270, K300, K350	1965-2018, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1954-2019, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1964-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1965-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-2004, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1965-2004, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1965-2004, 9999	50-52, 58, 59
988	Other (bus)	--	1965-2004, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-2004, 9999	50-52, 58, 59

****Use code “989” (bus) if the frontal plane or the engine location is unknown.**

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1965-2019, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2019, 9999	92, 93, 97
999	Unknown (KENWORTH)	--	1965-2019, 9999	99

MAKE: Mack (86) (MACK)**MEDIUM/HEAVY TRUCKS**

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	--	1968-2019, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	--	1965-2019, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	--	1977-2019, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1956-2019, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1972-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1971-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-2004, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1976-2004, 9999	50-52, 58, 59

Codes	Models	Includes	Model Years	Body Types
983	Bus: Rear engine, Flat front	--	1965-2004, 9999	50-52, 58, 59
988	Other (bus)	--	1965-2004, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-2004, 9999	50-52, 58, 59

****Use code “989” (bus) if the frontal plane or the engine location is unknown.**

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1965-2019, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2019, 9999	92, 93, 97
999	Unknown (MACK)	--	1965-2019, 9999	99

MAKE: Iveco/Magirus* (88) (IVEC)

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	LCF	1980-91, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	FL, FS	1980-91, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	--	1980-91, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1980-91, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1980-91, 9999	60-64, 66, 71, 72, 78

Codes	Models	Includes	Model Years	Body Types
898	Other (medium/heavy truck)	--	1980-91, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1980-91, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1980-91, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1980-91, 9999	50-52, 58, 59
988	Other (bus)	--	1980-91, 9999	50-52, 58, 59
989	Unknown (bus)	--	1980-91, 9999	50-52, 58, 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1980-91, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1980-91, 9999	92, 93, 97
999	Unknown (IVECO/MAGIRUS)	--	1980-91, 9999	99

*Magirus stopped production in 1985; Iveco stopped production in 1991.

MAKE: Peterbilt (87) (PTRB)**MEDIUM/HEAVY TRUCKS**

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	357-379, 387, 385	1974-2019, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	270	1965-2019, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	362, 320	1965-2019, 9999	60-64, 66, 71, 72, 78

Codes	Models	Includes	Model Years	Body Types
884	Medium/Heavy – Unknown engine location	--	1961-2019, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1964-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1965-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-2004, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1965-2004, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1965-2004, 9999	50-52, 58, 59
988	Other (bus)	--	1965-2004, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-2004, 9999	50-52, 58, 59

****Use code “989” (bus) if the frontal plane or the engine location is unknown.**

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1965-2019, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1965-2019, 9999	92, 93, 97
999	Unknown (PETERBILT)	--	1965-2019, 9999	99

MAKE: White/Autocar-White/GMC (89) (WHIT) – (WHGM)**MEDIUM/HEAVY TRUCKS**

Codes	Models	Includes	Model Years	Body Types
881	Medium/Heavy – CBE	--	1965-2019, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	--	1968-2019, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	--	1965-2019, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1963-2019, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1965-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1965-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-2019, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1965-2019, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1965-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1965-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1965-2019, 9999	50-52, 58, 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1965-2019, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1963-2019, 9999	92, 93, 97
999	Unknown (WHITE/AUTOCAR- WHITE/GMC)	--	1963-2019, 9999	99

Buses

NOTES:

- Refer to the [PASSENGER VEHICLE](#) section for buses manufactured by [Chevy](#), [Dodge](#), [Ford](#), [GMC](#), [Grumman](#), [Isuzu](#), [Mercedes](#), [Mitsubishi](#), and [Volvo](#).
- Refer to the [TRUCK](#) section for buses manufactured by [Brockway](#), [Diamond Reo](#), [Freightliner](#), [FWD](#), [International Harvester](#), [Kenworth](#), [Mack](#), [Peterbilt](#), and [White/Autocar-White/GMC](#).
- Refer to the [OTHER MAKE](#) section for buses manufactured by [Neoplan](#), [Carpenter Industries](#), [DINA](#), [Mid Bus](#), [Orion](#), and [Van Hool](#).
- [Hino and Scania buses](#) are located under [OTHER MAKE \(Medium/Heavy Trucks\)](#) since those manufacturers also make trucks.

MAKE: Bluebird (90) (BLUI)

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
461	Van Based	van-based school bus, shuttle bus	1927-2019, 9999	21

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1927-2019, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1927-2019, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1927-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1927-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1927-2019, 9999	50-52, 58, 59

**Use code "989" (bus) if the frontal plane or the engine location is unknown.

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (BLUEBIRD)	--	1927-2019, 9999	99

MAKE: Eagle Coach (91)**BUSES**

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1948-2001, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1948-2001, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1948-2001, 9999	50-52, 58, 59
988	Other (bus)	--	1948-2001, 9999	50-52, 58, 59
989	Unknown (bus)	--	1948-2001, 9999	50-52, 58, 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

MAKE: Gillig (92)**BUSES**

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1932-2019, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1932-2019, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1932-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1932-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1932-2019, 9999	50-52, 58, 59

**Use code “989” (bus) if the frontal plane or the engine location is unknown.

MAKE: MCI (93) (MCIN)**BUSES**

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1963-2019, 9999	50-52, 58, 59

Codes	Models	Includes	Model Years	Body Types
982	Bus: Front engine, Flat front	--	1963-2019, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1963-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1963-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1963-2019, 9999	50-52, 58, 59

****Use code "989" (bus) if the frontal plane or the engine location is unknown.**

MAKE: Thomas Built (94) (THMS)

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
461	Van Based	van-based school bus, shuttle bus	1936-2019, 9999	21

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1936-2019, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1936-2019, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1936-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1936-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1936-2019, 9999	50-52, 58, 59

****Use code "989" (bus) if the frontal plane or the engine location is unknown.**

UNKNOWN

Codes	Models	Includes	Model Years	Body Types
999	Unknown (THOMAS BUILT)	--	1936-2019, 9999	99

Other Make

(Unknown if DOMESTIC or FOREIGN) **

MAKE: Other Make * (98)**AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
301	Think	City	2009-15, 9999	03
302	Meyers Motor	NmG	2008-15, 9999	02
398	Other (automobile)	Solectra (electric: Force)	1945-2019, 9999	01-09 , 10-13

Do not use Other Make (98) if [Other Domestic \(29\)](#) or [Other Import \(69\)](#) is applicable.LIGHT TRUCKS**

Codes	Models	Includes	Model Years	Body Types
498	Other (light truck)	Solectra (electric: Citivan Flash)	1960-2019, 9999	14-16 , 19 , 20-22 ,
				28 , 29 , 33 , 34 , 39 ,
				40 , 41 , 42 , 45 , 48

LSV/NEV

Codes	Models	Includes	Model Years	Body Types
598	Other (LSV/NEV)	Tomberlin, Ford, Fly Bo	2000-19, 9999	94

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	ATK, Beta, Buell, Cagiva, Cobra Trike, Jawa, Husqvarna, KTM, Aprilia, Maely, Riva, Strociek, BMC, MV Agusta, Bimota, Husaberg, Indian Scout, Indian, Laverda, Big Dog, Polaris, Titan, Twin Eagle, Viza, Viper	1965-2019, 9999	80 , 81 , 84-89

Codes	Models	Includes	Model Years	Body Types
702	51-124cc	“	1965-2019, 9999	80-89
703	125-349cc	“	1965-2019, 9999	80-89
704	350-449cc	“	1965-2019, 9999	80-89
705	450-749cc	“	1965-2019, 9999	80-89
706	750cc or greater	“	1965-2019, 9999	80-89
707	Electric Motorcycle	“	2016-19, 9999	80-89
709	Unknown cc	“	1945-2019, 9999	80-89

ALL TERRAIN VEHICLES

Codes	Models	Includes	Model Years	Body Types
731	0-50cc	--	1965-2019, 9999	90, 96
732	51-124cc	--	1965-2019, 9999	90, 96
733	125-349cc	--	1965-2019, 9999	90, 96
734	350cc or greater	--	1965-2019, 9999	90, 96
739	Unknown cc	--	1965-2019, 9999	90, 96

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
802	Auto-Union-DKW	--	1965-88, 9999	60-64, 66, 71, 72, 78
803	Divco	--	1963-88, 9999	60-64, 66, 71, 72, 78
804	Western Star	--	1965-2019, 9999	60-64, 66, 71, 72, 78

Codes	Models	Includes	Model Years	Body Types
805	Oshkosh	(includes trucks & buses)	1965-2019, 9999	50, 52-59, 60-64, 66, 71, 72, 78
806	Hino	(includes trucks & buses)	1985-2019, 9999	50-52, 58, 59, 60-64, 66, 71, 72, 78
807	Scania	(includes trucks & buses)	1986-2004, 9999	50-52, 58, 59, 60-64, 66, 71, 72, 78
808	UD	--	1986-2013, 9999	60-64, 66, 71, 72, 78
809	Sterling	--	1998-2010, 9999	60-64, 66, 67, 71, 72, 78
881	Medium/Heavy – CBE	DINA	1965-2019, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	DINA	1965-2019, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	--	1965-2019, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1965-2019, 9999	60-64, 66, 71, 72, 78
870	Medium/Heavy Van- Based Vehicle	--	1965-2019, 9999	55, 61-64
890	Medium/Heavy – COE entry position unknown	--	1965-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	e.g., Marmon, Ward LaFrance	1945-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
902	Neoplan	--	1950-2019, 9999	50-52, 58, 59
903	Carpenter	--	1923-2000, 9999	21, 50-52, 58, 59

Codes	Models	Includes	Model Years	Body Types
904	Collins Bus	--	1967-2012, 9999	21
905	DINA	--	1989-2004, 9999	50-52, 58, 59
906	Mid Bus	--	1963-2008, 9999	21
907	Orion	--	1978-2013, 9999	50-52, 58, 59
908	Van Hool	--	1947-2019, 9999	50-52, 58, 59
981	Bus***: Conventional (Engine out front)	--	1965-2019, 9999	50-52, 58, 59
982	Bus: Front engine, Flat front	--	1976-2019, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1965-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1945-2019, 9999	50-52, 58, 59

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1965-2019, 9999	65, 73

OTHER AND UNKNOWN VEHICLES

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)	--	1940-2019, 9999	91-93, 95-97
999	Unknown (OTHER MAKE)	--	1940-2019, 9999	49, 79, 99

*Occurs when make is not explicitly listed here.

**Do not use Other Make (98) if [Other Domestic \(29\)](#) or [Other Import \(69\)](#) is applicable.

***Use code "989" (bus) if the frontal plane or the engine location is unknown.

Unknown Make**MAKE: Unknown Make (99)****AUTOMOBILES**

Codes	Models	Includes	Model Years	Body Types
399	Unknown (automobile)	--	1945-2019, 9999	01-09 , 10-13

LIGHT TRUCKS

Codes	Models	Includes	Model Years	Body Types
499	Unknown (light truck)	--	1945-2019, 9999	14-16 , 19 , 20-22 ,
				28 , 29 , 33 , 34 , 39 , 42 ,
				45 , 48

LSV/NEV

Codes	Models	Includes	Model Years	Body Types
599	Unknown (LSV/NEV)	--	2000-19, 9999	94

MOTORCYCLES

Codes	Models	Includes	Model Years	Body Types
701	0-50cc	--	1965-2019, 9999	80-89
702	51-124cc	--	1965-2019, 9999	80-89
703	125-349cc	--	1965-2019, 9999	80-89
704	350-449cc	--	1965-2019, 9999	80-89
705	450-749cc	--	1965-2019, 9999	80-89
706	750cc or greater	--	1965-2019, 9999	80-89
707	Electric Motorcycle	--	2017-19, 9999	80-89

Codes	Models	Includes	Model Years	Body Types
709	Unknown cc	--	1945-2019, 9999	80-89

ALL TERRAIN VEHICLES

Codes	Models	Includes	Model Years	Body Types
731	0-50cc	--	1965-2019, 9999	90, 96
732	51-124cc	--	1965-2019, 9999	90, 96
733	125-349cc	--	1965-2019, 9999	90, 96
734	350cc or greater	--	1965-2019, 9999	90, 96
739	Unknown cc	--	1965-2019, 9999	90, 96

MEDIUM/HEAVY TRUCKS

Codes	Models	Includes	Model Years	Body Types
870	Medium Heavy Van- Based Vehicle	--	1965-2019, 9999	55, 61-64
881	Medium/Heavy – CBE	--	1965-2019, 9999	60-64, 66, 71, 72, 78
882	Medium/Heavy – COE low entry	--	1965-2019, 9999	60-64, 66, 71, 72, 78
883	Medium/Heavy – COE high entry	--	1965-2019, 9999	60-64, 66, 71, 72, 78
884	Medium/Heavy – Unknown engine location	--	1965-2019, 9999	60-64, 66, 71, 72, 78
890	Medium/Heavy – COE entry position unknown	--	1965-2019, 9999	60-64, 66, 71, 72, 78
898	Other (medium/heavy truck)	--	1965-2019, 9999	60-64, 66, 71, 72, 78

BUSES

Codes	Models	Includes	Model Years	Body Types
981	Bus**: Conventional (Engine out front)	--	1965-2019, 9999	50-52, 58, 59
982	Bus: Front engine. Flat front	--	1976-2019, 9999	50-52, 58, 59
983	Bus: Rear engine, Flat front	--	1965-2019, 9999	50-52, 58, 59
988	Other (bus)	--	1945-2019, 9999	50-52, 58, 59
989	Unknown (bus)	--	1945-2019, 9999	50-52, 58, 59

**Use code "989" (bus) if the frontal plane or the engine location is unknown.

MOTOR HOME

Codes	Models	Includes	Model Years	Body Types
850	Motor Home	--	1965-2019, 9999	65, 73

OTHER AND UNKNOWN VEHICLE

Codes	Models	Includes	Model Years	Body Types
998	Other (vehicle)		1945-2019, 9999	91-93, 95-97
999	Unknown (as to automobile, motored cycle, light truck or truck)	--	1945-2019, 9999	49, 79, 99

V11 - Body Type

Format

2 numeric

SAS Name

Vehicle.BODY_TYP, Person.BODY_TYP, Parkwork.PBODYTYP

Element Values

Automobiles

Codes	Attributes
01	Convertible (excludes sunroof, t-bar)
02	2-Door Sedan, Hardtop, Coupe
03	3-Door/2-Door Hatchback
04	4-Door Sedan, Hardtop
05	5-Door/4-Door Hatchback
06	Station Wagon (excluding van and truck based)
07	Hatchback, Number of Doors Unknown
17	3-Door Coupe
08	Sedan/Hardtop, Number of Doors Unknown
09	Other or Unknown Automobile Type

Automobile Derivatives

Codes	Attributes
10	Auto-Based Pickup (includes Chevrolet - El Camino, GMC -Caballero, Ford - Ranchero, Chevrolet - SSR; Subaru-Baha, Brat, and Volkswagen - Rabbit Pickup)
11	Auto-Based Panel (Cargo Station Wagon, auto-based Ambulance/Hearse)
12	Large Limousine (More than four side doors or stretched chassis)
13	Three-Wheel Automobile or Automobile Derivative

Utility Vehicles

Codes	Attributes
14	<p><u>Compact Utility (ANSI D16.1 Utility Vehicle Categories “Small” and “Midsize”):</u></p> <ul style="list-style-type: none"> • Small: Chevy-Tracker; GMC- Jimmy/Typhoon; Isuzu - Trooper II; Oldsmobile - Bravada (1991-94); Suzuki - Samurai, Sidekick. • Midsize: Acura - SLX, RDX; Alfa Romeo – Stelvio; AM General – Dispatcher, H3; Audi - Q3, Q5, Q7, Allroad, SQ5; BMW - X1, X2, X3, X5, X6; Buick - Rendezvous, Rainier, Encore, Envision; Cadillac - XT5; Chevrolet - Captiva, S10-Blazer/TrailBlazer, Tracker (1999 on), TrailBlazer (2003 on), Trax, Equinox; Diahatsu - Rocky; Dodge - Durango (1998-2003), Nitro, Raider; Fiat - 500L, 500X; Ford - Bronco II (1984 on), Escape, Explorer, Explorer Sport, EcoSport; GMC - Jimmy (1995 on), Envoy, Terrain; Honda - CRV, Passport, Element, HR-V; Hyundai - Santa Fe, Tuscon, Veracruz (2007 only), Kona; Infiniti - QX4, JX35, QX60, QX70; Isuzu - Amigo, Axiom, Rodeo, Rodeo Sport, Vehicross, Trooper, Hombre; Jaguar – E-Pace, F-Pace, I-Pace; Jeep - Cherokee (1984 on), Commander, Grand Cherokee, Liberty, Patriot, Renegade, Wagoneer, Wrangler; Kia - Sportage, Sorrento, Niro; Land Rover - Defender (1993, 1995-1997), Discovery, Discovery Sport, Freelander (2002-2003) Evogue; Lamborghini - Urus; Lexus - RX300, RX330, GX470, GX460, NX; Lincoln - Aviator, MKC; Mazda – CX-5, Navajo, Tribute; Maserati - Levante; Mercedes - M, ML, G, GLK, GLE, GLC; Mercury - Mariner, Mountaineer; Mitsubishi - Montero, Montero Sport, Endeavor, Eclipse Cross; Nissan - Juke, Pathfinder, Xterra; Oldsmobile - Bravada (1996 on); Pontiac - Aztek, Torrent; Porsche - Macan; Saab - 9-7x; Saturn - Vue; Subaru - B9 Tribeca, Forester, XV Crosstrek, Ascent; Suzuki - Vitara, Vitara V6, Grand Vitara, X-90, XL7; Tesla - Model X; Toyota - 4-Runner, FJ Cruiser, Highlander, RAV4, C-HR; Volkswagen – Tiguan, The Thing, Atlas; Volvo - XC70, XC90, XC40.
15	<p><u>Large utility (ANSI D16.1 Utility Vehicle Categories and “Full Size” and “Large”)</u></p> <ul style="list-style-type: none"> • Full Size: Acura - MDX; AMC - Hummer; BMW – X5; Buick - Enclave (2013 on), Cadillac - Escalade; Chevrolet - Full-size Blazer, Suburban, Tahoe, Traverse (2013 on); Chrysler - Aspen, Dodge - Durango (2004 on), Ramcharger; Ford - Full-size Bronco (78 and after), Expedition; GMC – Full-size Jimmy/Yukon, Suburban/ Yukon XL, Acadia; Honda - Pilot; Hyundai - Veracruz (2008 on); Infiniti - QX56, QX80; Isuzu - Ascender; Jeep - Cherokee (83 and before); Kia Borrego; Land Rover - LR2, LR3, LR4, Freelander (2004 on), Range Rover, Discovery, Velar; Lexus - LX450/470/570; Lincoln - Navigator; Mazda - CX-9, Mercedes Benz – GL, GLS; Nissan - Armada; Plymouth - Trailduster; Porsche - Cayenne; Toyota - Land Cruiser, Sequoia; Volkswagen – Touareg. • Large: Avanti - Studebaker XUV; AMC -Hummer (H1, H2)
16	<p><u>Utility station wagon</u> (includes suburban limousines), Cadillac - Escalade ESV; Chevrolet - Suburban (Yukon XL (2000 on), Travellall, Ford - Excursion, Jeep - Grand Wagoneer)</p>
19	<p><u>Utility Vehicle, Unknown Body Type</u></p>

Van-Based Light Trucks (GVWR less than or equal to 10,000 lbs)

Codes	Attributes
20	Minivan (AM General - MV-1; Buick - Terraza; Chevrolet - Astro, City Express, Lumina, Uplander, Venture; Chrysler - Town and Country, Voyager, Pacifica; Dodge - Vista Van, Caravan, Grand Caravan, RAM-C/V, Promater City; Ford - Aerostar, Windstar, Freestar, Transit Connect; GMC - Safari, Savana; Honda - Odyssey; Hyundai - Entourage; Isuzu - Oasis; Kia - Sedona; Mazda - MPV; Mercedes - Metris; Mercury - Monterey, Villager; Mitsubishi - Minivan; Nissan - Altra EV, Axxess, Quest, Van, NV200; Oldsmobile - Silhouette; Plymouth - Voyager, Grand Voyager, Vista; Pontiac - Transport, Montana; Saturn - Relay; Toyota - Minivan, Previa, Sienna; Volkswagen - Camper, Eurovan, Routan, Vanagon.)
21	Large Van Includes van-based buses (B150-B350, Sportsman, Royal Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura, Ford - Transit, Freightliner - Sprinter/Advantage, Mercedes Benz -Sprinter, Dodge - Sprinter, RAM-Promaster, Nissan - NV, Ford - Transit)
22	Step-van or walk-in van (GVWR less than or equal to 10,000 lbs.)
28	Other van type (Hi-Cube Van, Kary)
29	Unknown van type

Light Conventional Trucks (Pickup style cab, GVWR less than or equal to 10,000 lbs)

Codes	Attributes
33	Convertible pickup
34	Light Pickup
39	Unknown (pickup style) light conventional truck type

Other Light Trucks (GVWR less than or equal to 10,000 lbs)

Codes	Attributes
40	Cab Chassis Based (includes Rescue Vehicle, Light Stake, Dump, and Tow Truck)
41	Truck Based Panel
45	Other light conventional truck type
48	Unknown light truck type
49	Unknown light vehicle type (automobile, utility vehicle, van, light truck)

Buses (excludes van-based buses with a GVWR less than or equal to 10,000 lbs)

Codes	Attributes
50	School Bus
51	Cross Country/Intercity Bus
52	Transit Bus (City Bus)
55	Van-Based Bus GVWR greater than 10,000 lbs.
58	Other Bus Type

Codes	Attributes
59	Unknown Bus Type

Medium/Heavy Trucks (GVWR greater than 10,000 lbs)

Codes	Attributes
60	Step Van (GVWR greater than 10,000 lbs.)
61	Single-unit straight truck or Cab-Chassis (GVWR range 10,001 to 19,500 lbs.)
62	Single-unit straight truck or Cab-Chassis (GVWR range 19,501 to 26,000 lbs.)
63	Single-unit straight truck or Cab-Chassis (GVWR greater than 26,000 lbs.)
64	Single-unit straight truck or Cab-Chassis (GVWR unknown)
66	Truck-tractor (Cab only, or with any number of trailing units; any weight)
67	Medium/heavy Pickup (GVWR greater than 10,000 lbs.)
71	Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)
72	Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)
78	Unknown medium/heavy truck type
79	Unknown truck type (light/medium/heavy)

Motor Homes

Codes	Attributes
42	Light Truck Based Motorhome (Chassis Mounted)
65	Medium/heavy truck based motor home
73	Camper or motor home, unknown truck type

Motorcycles, Mopeds, All-Terrain Vehicles; All-Terrain Cycles

Codes	Attributes
80	Two Wheel Motorcycle (excluding motor scooters)
81	Moped or motorized bicycle
82	Three-wheel Motorcycle (2 Rear Wheels)
83	Off-Road Motorcycle
84	Motor Scooter
85	Unenclosed Three Wheel Motorcycle / Unenclosed Autocycle (1 Rear Wheel)
86	Enclosed Three Wheel Motorcycle / Enclosed Autocycle (1 Rear Wheel)
87	Unknown Three Wheel Motorcycle Type
88	Other motored cycle type (mini-bikes, pocket motorcycles “pocket bikes”)
89	Unknown motored cycle type
90	ATV/ATC (All-Terrain Cycle)

Other Vehicles

Codes	Attributes
91	Snowmobile
92	Farm equipment other than trucks
93	Construction equipment other than trucks (includes graders)
94	Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)
95	Golf Cart
96	Recreational Off-Highway Vehicle (ROV)
97	Other vehicle type (includes go-cart, fork-lift, city street sweeper)
98	Not Reported
99	Unknown Body Type

Definition

This element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc.

Remarks

SEE ADDITIONAL REMARKS UNDER [VEHICLE MAKE/VEHICLE MODEL OVERVIEW](#)

AUTOMOBILES

These attributes are used to classify different types of passenger cars. These types of light vehicles, referred to as automobiles, are designed primarily to transport eight or fewer people.

01 (Convertible [excludes sunroof and t-bar]) refers to a passenger car equipped with a removable or retractable roof. The entire roof must open to qualify for this code. Convertible roofs are generally fabric; however, removable hardtops are also included. This attribute takes priority over 2-door or 4-door codes.

02 (2-Door Sedan, Hardtop, Coupe) refers to a passenger car equipped with two doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

03 (3-Door/2-Door Hatchback) refers to a passenger car equipped with two doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

04 (4-Door Sedan, Hardtop) refers to a passenger car equipped with four doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

05 (5-Door/4-Door Hatchback) refers to a passenger car equipped with four doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

06 (Station Wagon [excluding van and truck based]) refers to a passenger car with an enlarged cargo area. The entire roof covering the cargo area is generally equal in height from front to rear, and full height side glass is installed between the C and D pillars. The rearmost area is not permanently partitioned from the forward passenger compartment area (e.g., “horizontal window shades” to hide cargo do not constitute partitions).

07 (Hatchback, Number of Doors Unknown) refers to a passenger car with an unknown number of doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

17 (3-Door Coupe) refers to a passenger car equipped with three doors for ingress/egress. Two of the doors are located on the driver's side with a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

08 (Sedan/Hardtop, Number of Doors Unknown) refers to a passenger car equipped with an unknown number of doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

09 (Other or Unknown Automobile Type) is used for any passenger car that cannot be described by the other automobile codes OR when it is known that the vehicle is a passenger car, but there is insufficient data to determine the type. Do not use this attribute if the police crash report alone or in combination with other information gives sufficient detail to identify a more specific attribute.

- **Example #1:** If the possible choices are codes “01,” “02,” or “09,” but there is enough detail to identify that it is a 2-door and NOT a convertible, then use [02 \(2-Door Sedan, Hardtop, Coupe\)](#).
- **Example #2:** If there is information that it is a 4-door and the police crash report eliminates the possibility of a hatchback or station wagon, then use [04 \(4-Door Sedan, Hardtop\)](#).

AUTOMOBILE DERIVATIVES

This describes certain passenger cars that have been modified to perform cargo-related tasks.

10 (Auto-Based Pickup) refers to a passenger car based, pickup type vehicle. The roof area (and side glass) rearward of the front seats on a station wagon have been removed and converted into a pickup-type cargo box.

11 (Auto-Based Panel (Cargo Station Wagon, auto-based Ambulance/Hearse)) refers to an automotive station wagon that may have sheet metal rearward of the B-pillar rather than glass.

12 (Large Limousine) - more than four side doors or stretched chassis refers to an automobile that has sections added within its wheelbase to increase length and passenger/cargo carrying capacity.

13 (Three-Wheel Automobile or Automobile Derivative) refers to three-wheel vehicles with an enclosed passenger compartment not including [82 \(Three-Wheeled Motorcycle \(2 Rear Wheels\)\)](#) or [86 \(Enclosed Three Wheel Motorcycle/Enclosed Autocycle \(1 Rear Wheel\)\)](#).

UTILITY VEHICLES (Less than or equal to 10,000 lbs GVWR)

Utility Vehicles are designed for carrying people and are generally considered multi-purpose vehicles that are designed to have off-road capabilities. These vehicles are generally four-wheel drive (4 x 4), have increased ground clearance, and are equipped with a strong frame. Four-wheel drive automobiles are not considered utility vehicles.

14 (Compact Utility) refers to a short wheelbase and narrow tracked multi-purpose vehicle designed to operate in rugged terrain.

15 (Large Utility) refers to full-size multi-purpose vehicles primarily designed around a shortened pickup truck chassis. Generally, a station wagon style body, some models are equipped with a removable top.

16 (Utility Station Wagon) refers primarily to a pickup truck-based chassis enlarged to a station wagon.

19 (Utility Vehicle, Unknown Body Type) is used when it is known that the vehicle is a utility vehicle, but there is insufficient data to determine the specific type.

VAN-BASED LIGHT TRUCKS (GVWR less than or equal to 10,000 lbs)

Van-Based Light Trucks (less than or equal to 10,000 lbs GVWR) are designed to maximize cargo/passenger area versus overall length. Basically a “box on wheels,” these vehicles are identifiable by their enclosed cargo/passenger area and relatively short (or non-existent) hood.

20 (Minivan) refers to down-sized cargo or passenger unibody vans.

21 (Large Van) refers to a standard cargo or passenger van and includes van-based buses less than 10,001 lbs GVWR. These vans will generally have a larger capacity in both volume and GVWR.

22 (Step Van or Walk-In Van [less than or equal to 10,000 lbs. GVWR]) refers to a multi-stop delivery vehicle with a GVWR less than or equal to 10,000 lbs. Examples are the Grumman LLV used by the U.S. Postal Service or the Aeromate manufactured by Utilimaster Motor Corporation.

28 (Other Van Type) refers to a cargo or delivery van where the chassis and cab portions from the B-pillar forward of this vehicle are the same as in Minivans or Large Vans with a frame mounted cargo area unit added behind the driver/cab area or if the van cannot be described as a Minivan, Large Van, Step-van, or a Van-based motor home. Annotate the van type when using this code. This code takes priority over Minivans and Large Vans.

29 (Unknown Van Type) is used when it is known that this vehicle is a light van, but its specific type cannot be determined.

LIGHT CONVENTIONAL TRUCKS (Pickup Style Cab, GVWR less than or equal to 10,000 lbs)

Light Conventional Trucks are used to describe vehicles commonly referred to as pickup trucks and some of their derivatives. These light trucks are characteristically designed with a small cab containing a single row of seats (extended cabs with additional seats are available for some models), a large hood covering a conventional engine placement, and a separate open box area (approximately 180 to 240 centimeters long) for cargo.

Beginning in 2017, Body Types 30 and 31 were removed and replaced by the combined code of [34 \(Light Pickup\)](#). Beginning in 2018, Body Type 32 was removed and added to RELATED FACTORS – VEHICLE LEVEL (see [45 \(Slide-in Camper\)](#)).

33 (Convertible Pickup) refers to a pickup truck equipped with a removable or retractable roof. To qualify for this code, the entire roof must open. Convertible roofs are generally fabric; however, removable hardtops are also included. This code takes priority over compact and large pickups.

34 (Light Pickup) is a single unit straight truck with a pickup body style and a GVWR of 10,000 lbs or less.

39 (Unknown (Pickup Style) Light Conventional Truck Type) is used when this vehicle is a Light Conventional Truck, but there is insufficient data to determine the specific code.

OTHER LIGHT TRUCKS (GVWR less than or equal to 10,000 lbs)

Other Light Trucks are used to describe vehicles that are based upon a conventional light pickup frame, but a commercial or recreational body has been affixed to the frame rather than a pickup box.

40 (Cab Chassis Based [includes rescue vehicles, light stake, dump, and tow truck]) is used to describe a light vehicle with a pickup style cab and a commercial (non-pickup) body attached to the frame. Included are pickup based ambulances and tow trucks.

41 (Truck Based Panel) is used to describe a truck-based station wagon that has sheet metal rather than glass above the beltline rearward of the B-pillars.

45 (Other Light Conventional Truck Type) is used for light conventional trucks that cannot be described elsewhere.

48 (Unknown Light Truck Type) is used when it is known that the vehicle is a light truck but further classification into one of the more detailed light truck categories (utility, van, pickup, or other light trucks) is not possible. Example: It is known the light vehicle is a utility vehicle or van, but it can't be determined which one.

49 (Unknown Light Vehicle Type [automobile, utility, van, or light truck]) is used when it is known that the vehicle is a light vehicle, but insufficient data exists to specify what type of light vehicle it is.

BUSES (Excludes van-based buses with GVWR less than or equal to 10,000 lbs)

Buses are defined as any motor vehicle designed primarily to transport large groups of passengers (nine or more people, including the driver).

50 (School Bus) (designed to carry students, not cross country or transit) is a bus designed to carry passengers to and from educational facilities and/or related functions. The vehicles are characteristically painted yellow and clearly identified as school buses. Use this code regardless of whether the vehicle is owned by a school system or a private company. School buses converted for other uses (e.g., church bus) also take this code.

51 (Cross Country/Intercity Bus) describes a bus body type designed to travel long distances between cities (e.g., Greyhound).

52 (Transit Bus [City Bus]) describes a bus body type designed for public transportation typically within a city.

55 (Van-Based Bus GVWR greater than 10,000 lbs.) describes a bus body type built on a van-based chassis.

58 (Other Bus Type) is a vehicle designed/converted to carry nine or more people, including the driver, not described by the attributes [50 \(School Bus\)](#), [51 \(Cross Country/Intercity Bus\)](#), [52 \(Transit Bus\)](#), or [55 \(Van-Based Bus\)](#). Examples include a specialized tour bus or bus-based motor home.

59 (Unknown Bus Type) is used when it is known the transport device is a bus but there is insufficient data to choose between the bus attributes.

MEDIUM/HEAVY TRUCKS (GVWR greater than 10,000 lbs)

Medium/Heavy Trucks describe a single-unit truck specifically designed for carrying cargo on the same chassis as the cab. They pertain to a truck-tractor designed for towing trailers or semi-trailers. Although towing is their primary purpose, some truck-tractors are equipped with cargo areas located rearward of the cab.

60 (Step Van [Greater than 10,000 lbs. GVWR]) defines a single-unit, enclosed body with a GVWR greater than 10,000 lbs and an integral driver's compartment and cargo area. Step vans are generally equipped with a folding driver seat mounted on a pedestal and a sliding door for easy ingress/egress.

61-63 (Single-Unit Straight Truck or Cab-chassis) describes a non-articulated truck designed to carry cargo. The attribute selected is based on the applicable GVWR range for the vehicle. Includes "incomplete" or "cutaway."

64 (Single-Unit Straight Truck or Cab-chassis [GVWR unknown]) describes a medium/heavy non-articulated truck designed to carry cargo. It is known not to be a step van, van, or pickup truck, but its GVWR is unknown. Includes "incomplete" or "cutaway."

66 (Truck-Tractor [Cab only or with any number of trailing units]) describes a fifth wheel equipped tractor-trailer power unit. The number of trailing units is not a consideration.

67 (Medium/Heavy Pickup [Greater than 10,000 lbs. GVWR]) is a single-unit straight truck with a pickup body style with a GVWR greater than 10, 000 lbs. Examples include the Ford Super Duty 350, 450, or 550.

78 (Unknown Medium/Heavy Truck Type) is used when it is unknown whether the medium/heavy truck is a single-unit truck or a truck-tractor and/or trailer combination and it is known that the vehicle is either a medium or heavy truck with GVWR greater than 10,000 lbs.

79 (Unknown Truck Type [light/medium/heavy]) is used when it is known that this vehicle is a truck, but there is insufficient data to classify the vehicle further.

MOTOR HOMES

Motor Homes are recreational vehicles mounted on an incomplete vehicle chassis that is suitable to live in and drive across the country.

42 (Light Truck Based Motor Home [chassis mounted]) is used to describe a frame mounted recreational unit attached to a light van or conventional chassis.

65 (Medium/Heavy Truck Based Motor Home) describes a recreational vehicle mounted on a single unit medium/heavy truck chassis.

73 (Camper or Motor Home, unknown truck type) is used when it is known the vehicle is a camper or motor home, but the truck type is unknown.

MOTORCYCLES, MOPEDS, ALL-TERRAIN VEHICLES, ALL-TERRAIN CYCLES

80 (Two Wheel Motorcycle (excluding motor scooters)) is used when a motor vehicle having a seat or saddle for the use of its operator is a two-wheeled open (e.g., no enclosed body) vehicle propelled by a motor. Motorcycles equipped with a side car also use this code.

81 (Moped or Motorized Bicycle) is used when the vehicle is a speed-limited motor-driven cycle capable of moving either by pedaling or by a motor. **NOTE:** In the circumstance that a person operating a motorized bicycle is classified as a non-motorist on the police crash report, this person should be coded as a motor vehicle occupant rather than a non-motorist in NTS.

82 (Three-Wheeled Motorcycle (2 Rear Wheels)) is used when the vehicle is a three-wheeled open vehicle propelled by a motor, or a three-wheeled motorized bicycle capable of moving either by pedaling or by a motor.

83 (Off-Road Motorcycle) is used when the vehicle is a two-wheeled open vehicle propelled by a motor designed or built for off-road use only.

84 (Motor Scooter) a light, two-wheeled, open motor vehicle on which the driver sits over an enclosed engine with legs together and feet resting on a floorboard.

85 (Unenclosed Three Wheel Motorcycle/Unenclosed Autocycle (1 Rear Wheel)) A large motorcycle with three wheels, configured with two front wheels and a saddle with handle bars, or seat(s) and a steering wheel, but not completely enclosed.

86 (Enclosed Three Wheel Motorcycle/Enclosed Autocycle (1 Rear Wheel)) A large motorcycle with three wheels, configured with two front wheels, a seat(s), and steering wheel and is completely enclosed.

87 (Unknown Three Wheel Motorcycle Type) is used when the vehicle is known to be a three-wheel motorcycle, but it is not known if attribute [82 \(Three-wheel Motorcycle \(2 Rear Wheels\)\)](#), [85 \(Unenclosed Three Wheel Motorcycle / Unenclosed Autocycle \(1 Rear Wheel\)\)](#), or [86 \(Enclosed Three Wheel Motorcycle / Enclosed Autocycle \(1 Rear Wheel\)\)](#) applies.

88 (Other Motored Cycle [mini-bike, pocket motorcycles “pocket bikes”]) is used when the vehicle in question does not qualify for attributes 80-87.

89 (Unknown Motored Cycle Type) is used when it is known that the vehicle is a motored cycle, but no further data is available.

90 (ATV/ATC [All-Terrain Cycle]) is used for off-road recreational vehicles. ATV/ATCs have 3 or 4 wheels, a saddle type seat, and handlebars for steering (no steering wheel). Does not include [96 \(Recreational Off- Highway Vehicles \(ROV\)\)](#) (automobile type seats and steering wheel).

OTHER VEHICLES

Other Vehicles describes all motored vehicles that are designed primarily for off-road use.

91(Snowmobile) refers to a vehicle designed to be operated over snow propelled by a motor.

92 (Farm Equipment Other Than Trucks) refers to farming implements other than trucks propelled by a motor (farm tractors, combines, etc.).

93 (Construction Equipment Other Than Trucks) refers to construction equipment other than trucks propelled by a motor (bulldozer, road grader, etc.).

94 (Low speed vehicle (LSV)/Neighborhood Electric Vehicle (NEV)) refers to a vehicle that is designed for travel on secondary roads with speed limits equal to or less than 35 mph. LSVs can sometimes resemble golf carts but differ in that they must adhere to Federal Motor Vehicle Safety Standard (FMVSS) 500. Provisions of FMVSS 500 include the following.

The Vehicle must have:

- Four wheels
- Top speed of at least 20 mph, but it cannot exceed 25 mph
- GVWR less than 3,001 pounds
- Head, turn signal, and tail lamps
- Reflex reflectors
- Parking brake
- Rear view mirrors
- Windshield
- Safety belts
- A seventeen-character VIN

95 (Golf Cart) is a motor vehicle that is designed and manufactured for operation on a golf course for sporting or recreational purposes. Golf carts or golf cars are different from code [94 \(Low speed vehicle \(LSV\)/ Neighborhood Electric Vehicle \(NEV\)\)](#) in that if they are manufactured to go less than 20 mph, they are not subject to the Federal Motor Vehicle Safety Standard (FMVSS) 500. As a result, golf carts will not have a 17-digit VIN. Golf carts will have a nonstandard serial number that may be reported in the case materials. Also, typically golf carts will not have safety features required of LSVs/NEVs under the FMVSS like safety belts, head lights, turn signal and tail lamps, rear view mirrors, etc.

96 (Recreational Off-Highway Vehicle [ROV]) ROVs are intended to be used on terrain similar to that on which all-terrain vehicles (ATVs) are used. ROVs are distinguished from ATVs by the presence of a steering wheel instead of a handle bar for steering, bench or bucket seats for the driver and passenger(s) instead of straddle seating, and foot controls for throttle and braking instead of levers located on the handle bar. In addition, ROVs have a rollover protective system (ROPS), restraint systems, and a maximum speed greater than 30 mph.

97 (Other Vehicle Type) is used when the motorized vehicle in question does not qualify for [93 \(Construction equipment other than trucks\)](#), [92 \(Farm equipment other than trucks\)](#), or [91 \(Snowmobile\)](#) (fork-lift, city street sweeper, go-kart, “kit” car, etc.).

98 (Not Reported)

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

99 (Unknown Body Type) is used when the available information regarding the type of vehicle is reported as Unknown.

V12 - Vehicle Model Year

Format

4 numeric

SAS Name

Vehicle.MOD_YEAR, Person.MOD_YEAR, Parkwork.PMODYEAR

Element Values

Codes	Attributes
----	Actual Four Digit Model Year
9998	Not Reported
9999	Unknown

Definition

This element identifies the manufacturer's model year of this vehicle.

Remarks

SEE ADDITIONAL REMARKS UNDER [VEHICLE MAKE/VEHICLE MODEL OVERVIEW](#)

9998 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **9998 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

Code all four digits of the model year for which the vehicle was manufactured. For example, a vehicle manufactured as a 1985 model is to be coded as "1985."

V13 - Vehicle Identification Number

Format

17 alphanumeric

SAS Name

Vehicle.VIN, Parkwork.PVIN

Element Values

Codes	Attributes
000000000000000000	No VIN Required
--	Any Alphanumeric Characters – Actual VIN number
888888888888888888	Not Reported
999999999999999999	Reported as Unknown
*	VIN Character Missing or Not Decipherable

Definition

This element records the Vehicle Identification Number (VIN) or alphanumeric identifier in the case materials of a single vehicle or the power unit of a combination vehicle.

Remarks

SEE ADDITIONAL REMARKS UNDER [VEHICLE MAKE/VEHICLE MODEL OVERVIEW](#)

Code the complete VIN of the single vehicle or the power unit of a combination vehicle. The VIN is always left-justified. Trailer VINs are not coded in this element. See [TRAILER VEHICLE IDENTIFICATION NUMBER](#) to record the VIN on any trailer. If the VIN for the power unit of a combination vehicle is not available, code [8s \(Not Reported\)](#) for this element, rather than the trailer VIN.

The Vehicle Identification Number (VIN) standards are described in [49 CFR Part 565](#). This standard requires that each VIN have 17 characters, not contain the letter “I,” “O,” or “Q,” and pass a mathematical test (check digit). This data element may also be used to record non-standard VINs. See instruction under [* \(VIN Character Missing or Not Decipherable\)](#) for missing or illegible characters.

For a 17-character VIN that produces check digit errors, first attempt to resolve the error. If it cannot be resolved, record the VIN as provided and override any edit checks with explanation. See instruction under [* \(VIN Character Missing or Not Decipherable\)](#) for missing or illegible characters.

Only enter [8s \(Not Reported\)](#) or [9s \(Reported as Unknown\)](#) when the **entire** VIN is missing or unknown.

Enter all **0s (No VIN Required)** if the vehicle is not required to have a VIN as per 49 CFR Part 565 (e.g., ATVs, off- road motorcycles, farm tractors, go-carts) AND there is no VIN data available. If VIN data is available enter the VIN as provided in the case materials.

NOTE for pre-1981 vehicles:

If the vehicle is manufactured by the Ford Motor Company and the VIN begins or ends with a script “f,” the script “f” is not entered. Proceed to the next character, as in the example below.

Example:

VIN: f3 U 62 S 1009 32 f ENTER: 3U 62 S 100 932

In addition, if any hyphens or periods are contained in the string of alphanumeric characters, ignore them as in the example below.

Example:

VIN: SM - E . 3 076421 ENTER: S M E 307642 1

8s (Not Reported)

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **8s (Not Reported)** in these three situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials), or
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials), or
3. Information on the police crash report has been sanitized/redacted and no other information is available in the case materials.

9s (Reported as Unknown) is used when the entire power unit VIN is reported as Unknown with no information available.

- **(VIN Character Missing or Not Decipherable)** is used for any VIN character(s) that is missing or not decipherable, and the correct character(s) cannot be identified to resolve the VIN for the specific position(s).

Notes regarding VINs with less than 17 digits:

- Some vehicles (e.g., custom, pre-1981, imported, or rebuilt vehicles) may have been assigned identification numbers that are less than 17 digits. These should be entered as reported. Do not fill the remaining positions with asterisks “*”. *For example, 1102112486.*

- If a VIN is reported as less than 17 digits for a vehicle that would normally have 17 digits, and all characters are legible, fill with asterisks “*” at the end for the missing character(s). *For example, JM2UF1114G0*****.*

If the information from a decoded VIN and the police crash report are inconsistent, use the following guidelines:

- MAKE and MODEL on the police crash report takes precedence over the Make and Model indicated by the VIN.
- MODEL YEAR - Use Model Year as indicated by VIN if the VIN Make and Model matches the Make and Model shown on the police crash report.
- BODY TYPE - Use body type indicated by the VIN if the VIN Make and Model matches the Make and Model shown on the police crash report.

If the information about Make and Model on the police crash report is inconsistent, Model takes precedence over the Make.

V14 - Vehicle Trailing

Format

1 numeric

SAS Name

Vehicle.TOW_VEH, Person.TOW_VEH, Parkwork.PTRAILER

Element Values

Codes	Attributes
0	No Trailing Units
1	One Trailing Unit
2	Two Trailing Units
3	Three or more Trailing Units
4	Yes, Number of Trailing Units Unknown
5	Vehicle Towing Another Motor Vehicle - Fixed Linkage
6	Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage
9	Unknown

Definition

This element identifies whether or not this vehicle had any attached trailing units or was towing another motor vehicle.

Remarks

Trailing unit applies to any device connected to a motor vehicle by a hitch, including tractor-trailer combinations, a single-unit truck pulling a trailer (truck trailer), a boat trailer hitched onto a motor vehicle, etc. If the case materials do not provide sufficient information if the linkage was fixed or not, consider the linkage as fixed.

A vehicle towing another motor vehicle is not considered to be a trailer but is considered to be a towed vehicle (see [5 \(Vehicle Towing Another Motor Vehicle - Fixed Linkage\)](#) or [6 \(Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage\)](#)). A converter dolly is a device used to hitch a trailer to another semi-trailer or straight truck and is not counted as a separate trailing unit. For combination vehicles (medium/heavy trucks), count only the cargo-carrying units.

0 (No Trailing Units) is used when this vehicle was not pulling or towing a wheeled unit.

1 (One Trailing Unit) is used when one trailer was being pulled by this vehicle.

2 (Two Trailing Units) is used when this vehicle was pulling two trailers.

3 (Three or More Trailing Units) is used when this vehicle was pulling three or more trailers.

4 (Yes, Number of Trailing Units Unknown) is used when it is known that there was a trailer(s), but the number of trailers cannot be determined.

5 (Vehicle Towing Another Motor Vehicle - Fixed Linkage) is used to identify that a vehicle was towing another motor vehicle(s) connected by a fixed linkage. The towed vehicle will have two or more wheels on the ground. This will most commonly apply to drive-away/tow-away tow trucks. These are vehicles equipped with a mechanism designed to be attached to a towed vehicle (e.g., hoist). This attribute would also be used for saddle-mounted towed vehicles. An example of a saddle-mount unit would be a bobtail towing one or more other bobtails. This attribute does not apply to vehicles towed by being loaded on a flatbed or auto transporter.

6 (Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage) is used to identify that a vehicle was towing another motor vehicle(s) connected by a non-fixed linkage. A non-fixed linkage includes ropes, chains, or cables.

9 (Unknown) is used when it cannot be determined from any information if a unit was being pulled or towed.

V15 - Trailer Vehicle Identification Number

Format

3 sets, 17 alphanumeric

SAS Name

Vehicle.TRLR1VIN, Vehicle.TRLR2VIN, Vehicle.TRLR3VIN

Element Values

Codes	Attributes
000000000000000000	No VIN Required
--	Any Alphanumeric Characters – Actual VIN
777777777777777777	No Trailing Units
888888888888888888	Not Reported
999999999999999999	Reported as Unknown
*	VIN Character Missing or Not Decipherable

Definition

This element records the vehicle identification number (VIN) or alphanumeric identifier in the case materials of any trailing units of a combination vehicle.

Remarks

[SEE VEHICLE MAKE/VEHICLE MODEL OVERVIEW.](#)

VINs for the power unit are not coded in this element. See [VEHICLE IDENTIFICATION NUMBER](#) to record the VIN of the power unit.

Code the complete VIN of any trailing units of a combination vehicle (up to three trailing units). The number of VIN fields available to code is system generated based on the presence of a trailer or trailers in the element [VEHICLE TRAILING](#). For example, if VEHICLE TRAILING equals [0 \(No Trailing Units\)](#), [V5 \(Vehicle Towing Another Motor Vehicle - Fixed Linkage\)](#), [V6 \(Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage\)](#), or [9 \(Unknown\)](#) then TRAILER VEHICLE IDENTIFICATION NUMBER is auto-filled with [7s \(No Trailing Units\)](#).

If VEHICLE TRAILING equals [1 \(One Trailing Unit\)](#) then one TRAILER VEHICLE IDENTIFICATION NUMBER set of 17 alphanumeric characters is available to code and the remaining two are 7-filled by the system.

The VIN is always left-justified.

If the VIN for any trailing unit of a combination vehicle is not available, code [8s \(Not Reported\)](#) here. For example, if a truck tractor semi-trailer combination has no VIN information for the trailer, code [8s \(Not Reported\)](#) in the available field. If a truck tractor double-trailer combination has VIN information for only one of the two trailers, code the known VIN in the first field and [8s \(Not Reported\)](#) in the second TRAILER VEHICLE IDENTIFICATION NUMBER field.

The Vehicle Identification Number (VIN) standards are described in [49 CFR Part 565](#). This standard requires that each VIN have 17 characters, not contain the letter “I,” “O,” or “Q,” and pass a mathematical test (check digit). This data element may also be used to record non-standard VINs. See instruction under [* \(VIN Character Missing or Not Decipherable\)](#) for missing or illegible characters.

For a 17-character VIN that produces check digit errors, first attempt to resolve the error. If it cannot be resolved, record the VIN as provided and override any edit checks with explanation. See instruction under [* \(VIN Character Missing or Not Decipherable\)](#) for missing or illegible characters.

Only enter [8s \(Not Reported\)](#) or [9s \(Reported as Unknown\)](#) when the entire VIN is missing or reported unknown.

Enter all **0s (No VIN Required)** if the vehicle has a trailer but the trailer is not required to have a VIN as per [49 CFR Part 565 Requirements for Trailer Manufacturers](#). This attribute should only be used for homemade or custom trailers not manufactured for sale to the public.

NOTE for pre-1981 vehicles:

If the vehicle is manufactured by the Ford Motor Company and the VIN begins or ends with a script “f,” the script “f” is not entered. Proceed to the next character, as in the example below.

VIN: f3U 6 2S 1 00932 f
ENTER: 3U 62 S 100932

In addition, if any hyphens or periods are contained in the string of alphanumeric characters, ignore them as in the example below.

VIN: SM - E . 3076 421
ENTER: S ME 307 6421

8s (Not Reported)

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”

Code **8s (Not Reported)** in these three situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials), or
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials), or
3. Information on the police crash report has been sanitized/redacted and no other information is available in the case materials.

9s (Reported as Unknown) is used when the entire trailing unit VIN is reported as Unknown. For example, the police report the vehicle information is unknown for hit-and-run vehicle known to have a trailer(s).

* **(VIN Character Missing or Not Decipherable)** is used for any VIN character(s) that is missing or not decipherable and the correct character(s) cannot be identified to resolve the VIN for the specific position(s).

Notes regarding VINs with less than 17 digits:

- Some vehicles (e.g., custom, pre-1981, imported, or rebuilt vehicles) may have been assigned identification numbers that are less than 17 digits. These should be entered as reported. Do not fill the remaining positions with asterisks “*”. *For example, 8675309.*
- If a VIN is reported as less than 17 digits for a vehicle that would normally have 17 digits, and all characters are legible, fill with asterisks “*” at the end for the missing character(s). *For example, 558MEBM23FB*****.*

V29 - Areas of Impact – Initial Contact Point / Damaged Areas**Format**

2 subfields: Subfield 1, 2 numeric; Subfield 2, Select All That Apply

SAS Name

Vehicle.IMPACT1, Person.IMPACT1, Parkwork.PIMPACT1, Damage.MDAREAS

Element Values**Subfield 1: Areas of Impact - Initial Contact Point**

Codes	Attributes
00	Non-Collision
01-12	Clock Points
13	Top
14	Undercarriage
61	Left
62	Left-Front Side
63	Left-Back Side
81	Right
82	Right-Front Side
83	Right-Back Side
18	Cargo/Vehicle Parts Set-In-Motion
19	Other Objects <i>or Person</i> Set-In-Motion
20	Object Set-In-Motion, Unknown if Cargo/Vehicle Parts or Other
98	Not Reported
99	Reported as Unknown

Subfield 2: Damaged Areas

Codes	Attributes
01-12	Clock Values
13	Top
14	Undercarriage
15	No Damage
99	Damage Areas Unknown

Definition (Areas of Impact - Initial Contact Point): This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle or that resulted in the first instance of damage to other property or to this vehicle.

Definition (Damaged Areas): This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case materials by the officer.

Remarks

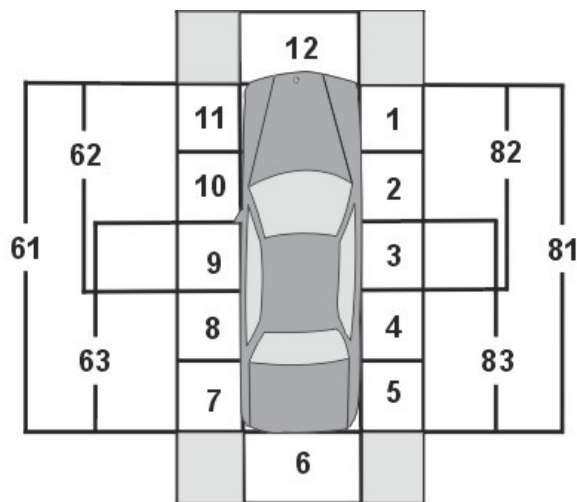
If AREAS OF IMPACT- INITIAL CONTACT POINT / DAMAGED AREAS are provided on the crash report in this exact format, use the values from the report unless there are clear errors (e.g., officer switches vehicles by mistake). If these elements are not provided on the crash report in this exact format, then similar report fields, narrative, or diagram information may be used to code these elements. These subfields do not refer to direction of force of the impact. They identify the area(s) on the vehicle associated with the initial contact ([Subfield 1](#)) and all damage to the vehicle identified in the case material ([Subfield 2](#)).

Areas of Impact / Initial Contact Point (Subfield 1):

This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle. The event that produced the Initial Contact Point for this vehicle may or may not be the FIRST HARMFUL EVENT for the **crash**. This data is derived from the [CRASH EVENTS](#) Table and will always be the first recorded AREA(S) OF IMPACT element value for each vehicle in the Crash Events Table.

*Note the same element values from **Areas of Impact – Initial Contact Point** are used to complete the **Areas of Impact (AOI)** fields in the [CRASH EVENTS](#) Table for all harmful events.

Figure 2. Areas of Impact - Initial Contact Point Element Values Diagram



00 (Non-Collision [Initial Contact Point])

If the first harmful event involving this vehicle in the Crash Events Table is a [non-collision event](#), then Initial Contact Point will be **00 (Non-Collision)**.

“01-12” refer to the points on a clock (see [Figure 2](#)). The sides of the vehicle are divided into 5 equal segments, 01 through 05 for the right side and 07 through 11 for the left side. The front (12), back (06), top (13) and undercarriage (14) complete the outside surfaces of the vehicle. Use the diagrams in [Figure 4](#) for examples of how the 5 equal side segments are created on several vehicle types.

As procedure, start by looking for one of the “clock” values 01-12 or specific situation values 00, 13, 14, 18. If sufficient detail is not available to choose one of these values, move out to the next set of values to try to identify the appropriate codes (i.e., **62-63, 82-83**, then **61, 81**). (See [Figure 2](#)) Lastly, for missing information pertaining to known harmful events, a [98 \(Not Reported\)](#) attribute is available.

61-63 and 81-83:

Codes 62-63 and 82-83 are used when there is not sufficient detail available in the case materials to identify a more specific AREA OF IMPACT, 01-05 and 07-11, but one of the quadrants can be identified (i.e., **62 (Left-Front Side), 63 (Left-Back Side), 82 (Right-Front Side), or 83 (Right-Back Side)**). Also, use these attributes if the case materials indicate that the damage area is “between” or overlapping two known clock points. (e.g., if the damage area is midway between or overlapping clock points 10 and 11, use **62 (Left-Front Side)**).

Codes 61 and 81 are used when there is not sufficient detail available in the case materials to identify a more specific AREA OF IMPACT, 62-63 or 82-83, but one of the sides can be identified (i.e., **61 (Left) or 81 (Right)**).

Guideline for Resolving Ambiguous Information

If the language in the narrative is ambiguous **AND** the diagram or other case information don’t provide resolution, use the area indicated **first in the narrative wording** to select the AREA OF IMPACT to code. See examples table below.

Examples:

Description	Coding
Front, left	12
Left, front	62
Front, corner	12
Right, rear	83
Back, right side	06

It is important to note that AREA OF IMPACT refers mainly to the area of the vehicle that sustained the damage and does not depend upon the attitude of the vehicle (e.g., damage to a grille is still damage at 12 o’clock even if it was caused by sliding sideways past a utility pole).

However, **13 (Top)** may raise questions. The front and rear windows of some vehicles may also be viewed from the top. It may also be difficult to code impacts to the hood and rear deck of a vehicle.

With **13 (Top)** the direction of force sometimes has to be considered. The following are guidelines for using (Top).

1. If the area was damaged by an impact that was received horizontally to an upright vehicle, use one of the codes “01 to 12, 61-63, 81-83.”
2. If the area was damaged by an impact that was received from a vertical direction above the upright vehicle, use **13 (Top)**.

3. If the impact was received or direction of force was at an angle of less than 15° above the horizontal, it is considered horizontal.
4. With a vehicle in other than upright attitudes, remember, it is the area of the vehicle that was damaged that is important.

14 (Undercarriage) refers to non-horizontal impacts to the undercarriage or swiping or snagging of undercarriage components (axles, exhaust system, etc.). Tire/Wheel impacts are coded to the AREA OF IMPACT (01-12, 61-63, 81-83). If a vehicle impacts the side plane of a *truck* tractor/trailer, and the AOI for the *truck* tractor/trailer is listed as undercarriage on the police crash report, code the *truck* tractor/trailer's AOI - Initial Contact clock point involved in the impact rather than **14 (Undercarriage)**.

Special Instructions Involving Motorcycles:

For cases involving a motorcycle where the area of initial contact is described as “front tire/wheel” or “front end” code as **12 (Front)**, or “rear tire/wheel” or “rear end” code as **06 (Back)** if the impact was received on a horizontal plane.

If the only event for a vehicle is a [non-collision event](#), the AREA OF IMPACT - Initial is coded **00 (Non-Collision)**. If following a non-collision event, a vehicle has a collision event; AREA OF IMPACT, INITIAL CONTACT POINT is still coded **00 (Non-Collision)**.

Hitting the ground during a non-collision crash is not considered an “impact” for this subfield.

Set-In-Motion Attributes:

“Loads” of a vehicle includes people or property upon or set-in-motion by the vehicle, people boarding or alighting from the vehicle, and people or property attached to and in position to move with the vehicle. A vehicle associated with a harmful event produced by a load being separated from, or propelled by, the vehicle should have one of the three set-in-motion AOI values for this event. These set-in-motion values identify that only the load has made contact with the other vehicle, person, or other property in that event.

Important Notes:

- If debris set in motion as the result of a vehicle-to-vehicle collision produces a subsequent harmful event (e.g., strikes a third vehicle) and you cannot reasonably determine which vehicle the debris came from, use the lowest vehicle number of the MVIT(s) involved in the vehicle-to-vehicle event that produced the debris.
- The in-transport vehicle setting the object in motion and the object set in motion are coded under **VEHICLE NUMBER (THIS VEHICLE)** and **AOI (This Vehicle)**.
- The only time AOI (This Vehicle) and AOI (Other Vehicle) are both coded 18 (Cargo/Vehicle Parts Set-In- Motion), 19 (Other Objects *or Person* Set-In-Motion), or 20 (Object Set-In-Motion, Unknown if Cargo/Vehicle Parts or Other) is if the impact is between objects set in motion by both in-transport motor vehicles.

18 (Cargo/Vehicle Parts Set-In-Motion) is selected when the harmful event involves an impact between a fixed/non-fixed object or vehicle and cargo or parts from an in-transport motor vehicle that are set-in-motion. That is, use this code when the object set-in-motion is cargo (e.g.,

mattress, logs, tools, unsecured objects on the in-transport motor vehicle) or a part of an in-transport motor vehicle (e.g., hubcap or mirror).

Examples:

Vehicle 1 (log truck) swerves to avoid a braking vehicle (Vehicle 2). A log becomes dislodged from Vehicle 1 and lands on Vehicle 2's top.

- Vehicle 1 AREA OF IMPACT, INITIAL CONTACT POINT would be coded as **18 (Cargo/Vehicle Parts Set-In- Motion)**.
- Vehicle 2 AREA OF IMPACT, INITIAL CONTACT POINT would be coded as **13 (Top)**.

19 (Other Objects or Person Set-In-Motion) is used when the harmful event involves an object set-in-motion by an in-transport motor vehicle that is **NOT** cargo or part of the in-transport motor vehicle (e.g., kicked-up stone, motorcycle rider, parked vehicle, stop sign).

Examples:

Vehicle 1 kicks up a stone that impacts Vehicle 2's windshield.

- Vehicle 1 AREA OF IMPACT, INITIAL CONTACT POINT would be coded as **19 (Other Objects or Person Set-In-Motion)**.
- Vehicle 2 AREA OF IMPACT, INITIAL CONTACT POINT would be coded as **12 (Front)**.

20 (Object Set-In-Motion, Unknown if Cargo/Vehicle Parts or Other) is used when it is UNKNOWN whether the object was the cargo or a part of an in-transport motor vehicle (**18 – Cargo/Vehicle Parts Set-in-Motion**) or some other object (**19 – Other Objects or Person Set-In-Motion**).

98 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."

Code 98 (Not Reported) in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

AREAS OF IMPACT - Initial Contact Point Examples of Not Reported:

- The case materials lack the detail to identify the initial contact point at all (e.g., narrative only states the vehicle departed the roadway and impacted a tree).
- The case materials lack the detail to identify the initial contact point among a number of possible choices for the first harmful event for the vehicle (e.g., crash report field

indicates front and right side damage from separate impacts and does not clarify which area is associated with the initial impact).

99 (Reported as Unknown) is used if the investigating officer reported that the Initial Contact Point was unknown.

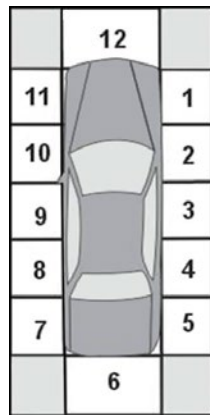
Areas of Impact - Damaged Areas (Subfield 2):

This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case materials. For trailers that become separated from the power unit at the onset of the unstabilized situation or during the crash, treat the entire combination as one unit when recording Damaged Areas. Please see the Clockpoint Diagrams in [Figure 4](#) to establish damage areas for combination vehicles.

Vehicles noted as “totaled”:

This element is identifying the vehicle planes that were damaged, so do not make the assumption that a vehicle noted in the case materials as “totaled” translates to all areas being damaged. This term is often referring to the cost to repair the damage, not the areas damaged.

Figure 3. Damaged Areas Element Values Diagram



*NOTE: When entering the data there are three short cut selections in MDE for identifying multiple areas. Those selections are:

1. All Areas – this will select all values **01-12, 13 (Top), and 14 (Undercarriage)**
2. Left Side – this will select all values **07-11**.
3. Right Side – this will select all values **01-05**.

01-12 (Clock Values) refer to the points on a clock (see [Figure 3](#)) to identify areas on the vehicle that were damaged in the crash. This subfield includes induced damage identified in the report. For example, the case materials show an impact centered at 03 (AOI – Initial Contact) that produced damage in 02, 03, 04. The sides of the vehicle are divided into 5 equal segments, 01 through 05 for the right side and 07 through 11 for the left side. The front (12), back (06), top (13), and undercarriage (14) complete the outside surfaces of the vehicle. Use the diagrams in [Figure 4](#) for examples of how the 5 equal side segments are created on several vehicle types.

13 (Top) includes damage to the hood, windshield, roof, rear window, and trunk deck.

14 (Undercarriage) includes damage to the tires/wheels, axles, exhaust system, etc.

15 (No Damage) is used for vehicles that experience harmful events, but the events do not produce physical damage to the vehicle itself.

Examples include:

- Vehicles that have the [non-collision harmful events](#) of gas inhalation, injured in vehicle, fell/jumped from vehicle, or other non-collision.
- Vehicles that have a collision event, but the event does not produce damage to the vehicle such as running over a pedestrian, striking a bicyclist, striking another vehicle where only the struck vehicle is damaged, or when the only collision event is cargo falling from this vehicle that lands on another vehicle or person.

99 (Damage Areas Unknown) is used when the case materials do not indicate which area or areas received damage or when the information in the case materials is confusing or inadequate for the purposes of this determination.

Handling of known events with unknown damage areas:

For situations where you have known damage areas associated with a specific event(s), and additional harmful events without knowing specific damage areas for the additional events, code only the known damage areas in this subfield. For example, if the police crash report narrative only states that “V1 *struck* several trees” with the only indication of damage given as the initial front contact, and a police crash report box marked “Totaled,” code only 12 for the known damage to the front of the vehicle.

Handling of non-collision harmful events that produce vehicle damage:

For situations where a vehicle is involved in the following [non-collision harmful events](#): (01) Rollover/Overturn, Fire/Explosion, (03) Immersion or Partial Immersion, (16) Thrown or Falling Object, (44) Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.), (51) Jackknife (harmful to this vehicle), or (72) Cargo/Equipment Loss or Shift (harmful to this vehicle), code only the damage areas reflected in the case materials by the officer.

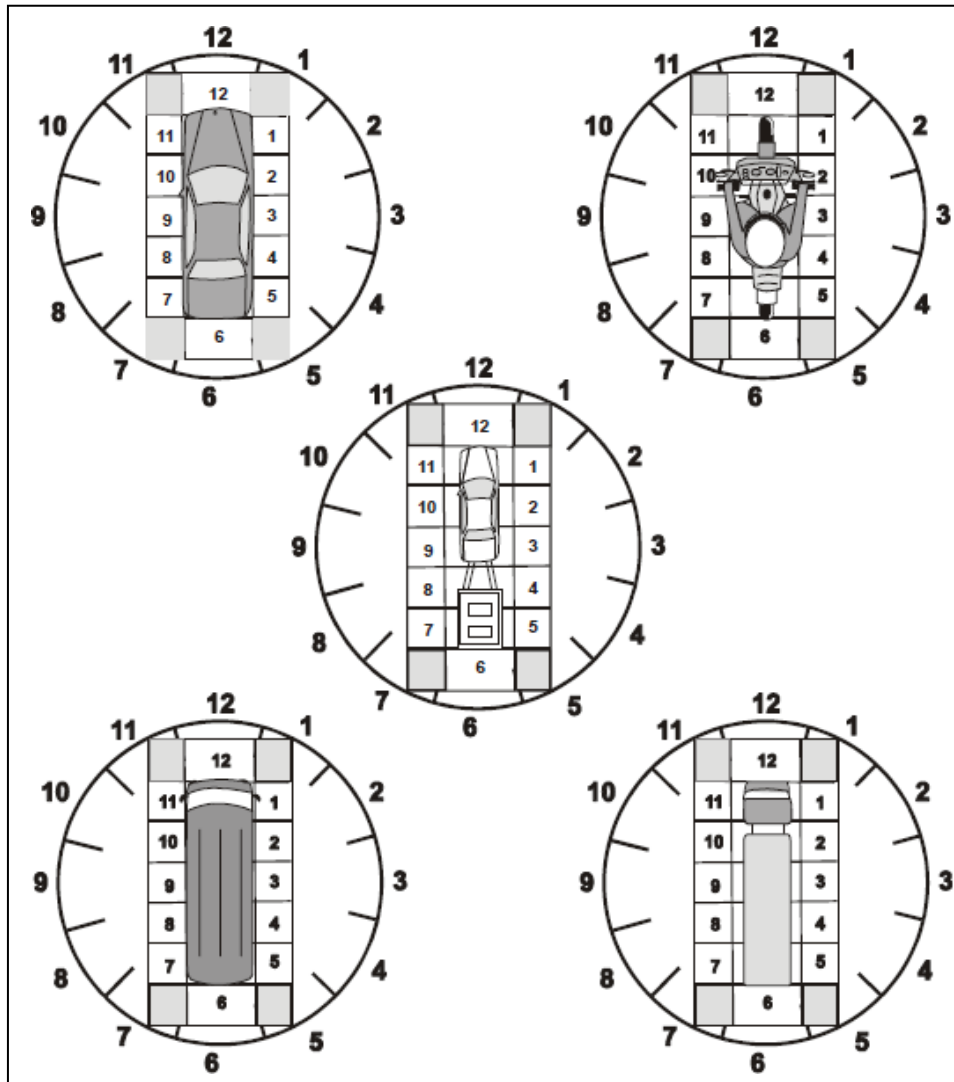
For example, the investigating officer may indicate damaged locations that translate to:

- 01-12, 13, 14 for a vehicle that was consumed by a fire or immersed in a river.
- 01-05, 13 for a vehicle that rolls onto its right side and then roof.
- 13 for a vehicle that only has damage to the hood from a fire.
- 13 for a vehicle that has a tree fall on its roof.
- 14 for a vehicle that strikes a pothole on its undercarriage.

Do not record damage at these locations for these non-collision harmful events unless so indicated by the case materials.

If a vehicle that experiences only these non-collision events and has only “non-collision” reflected in the case materials by the officer for its damaged areas, then use [99 \(Damage Areas Unknown\)](#).

Figure 4. Clockpoint Diagram



V30 - Extent of Damage

Format

1 numeric

SAS Name

Vehicle.DEFORMED, Parkwork.PVEH_SEV

Element Values

Codes	Attributes
0	No Damage
2	Minor Damage
4	Functional Damage
6	Disabling Damage
8	Not Reported
9	Reported as Unknown

Definition

This element indicates the amount of damage sustained by this vehicle in this crash as indicated in the case materials based on an operational damage scale.

Remarks

There is a distinction between the cost to repair the damage and the degree to which the damage affects the vehicle's operability (totaled, under/over monetary threshold). Operational damage is recorded here. For example, if the available information indicates that the vehicle was totaled and the vehicle was towed away *for any reason*, use [6 \(Disabling Damage\)](#). However, if the available information indicates that the vehicle was totaled, but the vehicle was driven away, use [4 \(Functional Damage\)](#).

0 (No Damage) is used when there is no damage indicated in the available information for this vehicle.

2 (Minor Damage) is damage that does not disable or affect the operation of the motor vehicle. This attribute is used when the case materials indicate damage to the vehicle to be Minor or less than Functional and the vehicle is not towed due to damage.

- Examples of **2 (Minor Damage)** include: dented or bent fenders, bumpers, grills, body panels, and destroyed hubcaps.

4 (Functional Damage) is damage that is not disabling but affects the operation of the motor vehicle or its parts. This attribute is used when the available information specifically indicates the damage is moderate or functional.

Examples of **4 (Functional Damage)** include

- Doors, windows, hood and trunk lids that will not operate properly,

- Broken glass that obscures vision,
- Damage that would prevent the motor vehicle from passing an official motor vehicle inspection,
- Tire damage even though the tire may have been changed at the scene,
- Bumpers that are loose,
- Headlamp or taillight damage that would make night driving hazardous but would not affect daytime driving, and
- Damage to turn signals, horn, or windshield wipers that makes them inoperative.

6 (Disabling Damage) is damage that precludes departure of the motor vehicle from the crash scene in its usual daylight-operating manner after simple repairs. As a result, the motor vehicle would have had to have been towed or carried from the crash scene or assisted by an emergency motor vehicle. This attribute should be used when the available information specifically indicates disabling or severe damage. This attribute is also used when the damage is indicated to be of greater magnitude than Functional (moderate), e.g., major, extensive, totaled and the vehicle was towed from the scene.

08 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

9 (Reported as Unknown) is used when the available information specifically indicated the damage severity to be unknown.

V31 - Vehicle Removal

Format

1 numeric

SAS Name

Vehicle.TOWED, Parkwork.PTOWED

Element Values

Codes	Attributes
2	Towed Due to Disabling Damage
3	Towed Not Due to Disabling Damage
7	Towed, Unknown Reason
5	Not Towed
8	Not Reported
9	Reported as Unknown

Definition

This data element describes the mode in which the vehicle left the scene of the crash.

Remarks

This data element describes the mode in which the vehicle left the scene of the crash. Towing includes vehicles carried from the scene on a flatbed tow truck.

If the vehicle is a combination vehicle (power unit and at least one trailer), the power unit and/or trailer(s) are considered when determining tow status. If the available information indicates the power unit, or trailer of a combination unit, sustained enough damage to require towing, consider this vehicle as towed due to damage.

2 (Towed Due to Disabling Damage) is used for any towing that is due to disabling damage caused by this crash that prohibits vehicle movement under its own power.

- If a vehicle was pushed by hand or by another vehicle after the crash because it was not drivable, then use **2 (Towed Due to Disabling Damage)**.
- If a vehicle was towed due to disabling damage **AND** for other reasons such as driver arrest, then code this vehicle as **2 (Towed Due to Disabling Damage)**.

3 (Towed Not Due to Disabling Damage) is used when the vehicle did not sustain disabling damage, but the vehicle had been removed from the scene of the crash by tow truck or other vehicle for other reasons (minor damage, functional damage, mired vehicles, driver arrested, injured driver, etc.).

7 (Towed, Unknown Reason) is used if the vehicle is towed, but the reason for towing is unknown. For example, a vehicle is reported in the case materials as towed, but it cannot be determined whether it was due to disabling damage or for other reasons.

5 (Not Towed) is used when it is specifically indicated in the available information that the vehicle was not towed or when the preponderance of the information available indicates that the vehicle was driven away or was not towed.

NOTE: The police crash report narrative may be used to supersede and/or clarify the above information.

8 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

9 (Reported as Unknown) is used when the investigating officer indicates it was unknown as to how the vehicle was removed.

V32 - Sequence of Events

Format

Read Only

SAS Name

Cevent.SOE, Vevent.SOE

Element Values

Non-Collision Harmful Events:

Codes	Attributes
01	Rollover/Overturn
02	Fire/Explosion
03	Immersion or Partial Immersion
04	Gas Inhalation
51	Jackknife (harmful to this vehicle)
06	Injured in Vehicle (Non-Collision)
44	Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
07	Other Non-Collision
72	Cargo/Equipment Loss, Shift, or Damage (harmful)
16	Thrown or Falling Object
05	Fell/Jumped from Vehicle

Collision With Motor Vehicle In-Transport:

Codes	Attributes
54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	Motor Vehicle in Motion Outside the Trafficway

Collision With Object Not Fixed:

Codes	Attributes
08	Pedestrian
09	Pedalcyclist
10	Railway Vehicle
74	Road Vehicle on Rails
11	Live Animal
49	Ridden Animal or Animal-Drawn Conveyance
18	Other Object (Not Fixed)
15	Non-Motorist on Personal Conveyance
14	Parked Motor Vehicle
45	Working Motor Vehicle

Codes	Attributes
73	Object That Had Fallen from Motor Vehicle In-Transport
91	Unknown Object Not Fixed

Collision With Fixed Object:

Codes	Attributes
17	Boulder
19	Building
58	Ground
20	Impact Attenuator/Crash Cushion
50	Bridge Overhead Structure
21	Bridge Pier or Support
23	Bridge Rail (Includes Parapet)
24	Guardrail Face
52	Guardrail End
25	Concrete Traffic Barrier
57	Cable Barrier
26	Other Traffic Barrier
59	Traffic Sign Support
46	Traffic Signal Support
30	Utility Pole/Light Support
31	Other Post, Other Pole, or Other Supports
32	Culvert
33	Curb
34	Ditch
35	Embankment
38	Fence
39	Wall
40	Fire Hydrant
41	Shrubbery
42	Tree (Standing Only)
48	Snow Bank
53	Mail Box
43	Other Fixed Object
93	Unknown Fixed Object

Not Reported/Unknown

Code	Attribute
98	<i>Harmful Event, Details Not Reported</i>
99	Reported as Unknown

Definition

The events in sequence related to this motor vehicle, regardless of injury and/or property damage. Code each event for this vehicle in the order in which they occur, timewise, from police crash report narrative and diagram.

Remarks

This data element is derived from the [CRASH EVENTS](#) Table. Recording of CRASH EVENTS ends at the last harmful event of the entire crash. Prior to selecting an unknown value, the case materials should be thoroughly evaluated to identify if a specific attribute can be applied.

Correction to the SEQUENCE OF EVENTS order must be made by revision to the [CRASH EVENTS](#) Table.

Non-Collision Harmful Events:

01 (Rollover/Overturn) is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end.

NOTES regarding 01 (Rollover/Overturn):

- For motorcycles, laying the motorcycle down on its side is sufficient to use attribute **01 (Rollover/Overturn)** as a harmful event if damage or injury is produced.
- Every vehicle that overturns will have contact with the ground. The collision event [58 \(Ground\)](#) should not be used in describing a non-collision **01 (Rollover/Overturn)** event. For example: A vehicle's tires furrow into soft soil causing the vehicle to roll. The harmful event is **01 (Rollover/Overturn)**. If the report identifies the vehicle "struck" the ground, and that harmful collision event caused the vehicle to roll, the events are [58 \(Ground\)](#), **01 (Overturn/Rollover)**. Note this will give you a Level 2 edit check. If overriding the edit check, be specific in your override remarks.
- A vehicle rolls over 3 quarter turns. This is one rollover event involving 3 quarter turns.
- If there is a **01 (Rollover/Overturn)** that begins in another location but involves a ditch or embankment in the case (e.g., "rolled through the ditch," "rolled down the embankment," "came to rest against the embankment"), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the CRASH EVENTS. If there is indication that damage resulted from an impact with the fixed object, it is included in the CRASH EVENTS. This follows the same logic as striking a tree or another vehicle during an overturn.
- For a vehicle that rolls over, impacts a fence, and continues to rollover: only two events would be coded for that circumstance. The first event would be the rollover followed by an impact with the fence. In order for more than one rollover event to appear in a vehicle's SEQUENCE OF EVENTS, the vehicle must return to its wheels, and track for a period of time before experiencing a separate rollover event. This would be a rare occurrence and must be clearly identified in the case materials.

NOTE: For medium/heavy trucks with attached trailers by fixed linkage: when either the power unit or the trailer rolls over, the entire vehicle will be considered a rollover.

02 (Fire/Explosion) is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

- As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle's occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (in open fields, on hillsides, etc.), or to vehicles removed from the scene to another location (tow yard, curbside, etc.), are not considered part of the crash sequence.

03 (Immersion or Partial Immersion) is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water and the depth cannot be ascertained from case materials. **NOTE:** In immersion fatalities, the injury to the person may be noted as “drowning.”

04 (Gas Inhalation) includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

51 (Jackknife [harmful to this vehicle]) applies to a condition that occurs to an articulated vehicle (any vehicle with a trailing unit[s] connected by a hitch; truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

06 (Injured in Vehicle [Non-Collision]) is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.]) is used when the pavement surface irregularity is on a paved surface. Other examples include indication of contact with a dip, depression, low spot, trough, etc. If the impact is with a surface irregularity (e.g., ruts, potholes) not on a paved surface, use **58 (Ground)**. For a vehicle that “bottoms out” on the paved surface (causing damage) due to speed, but not because of a pavement surface irregularity, use attribute **07 (Other Non-Collision)**.

07 (Other Non-Collision) Non-collision not captured in the listed non-collision attributes.

Examples:

- Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).
- A vehicle “bottoms out” (causing damage) due to speed but not because of a pavement surface irregularity. *Damage* due to pavement surface irregularities should be coded **44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])**.

16 (Thrown or Falling Object) is used when any object (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in-motion by a motor vehicle (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport\)](#)).

72 (Cargo/Equipment Loss, Shift, or Damage [harmful]) refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, causing damage and/or injury to the vehicle, its occupants, its parts, trailing unit, or the cargo itself. Harm can be measured in loss of monetary value from unrecoverable cargo loss as well as physical damage. This attribute should never be used to refer to a “collision” event (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport\)](#)).

Examples:

- A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.
- Unsecured cargo shifts inside a box truck and bursts through the wall of the trailer.
- Pallets of beehives on a flatbed truck fall off the truck on a sharp curve causing the hives to open and the bees to fly away.

Notes:

In situations when a cargo shift is part of a collision event, the cargo shift is not coded separately. See [Non- Collision events involving motorcycles and vehicles with a “load.”](#)

- Use [07 \(Other Non-Collision\)](#) in a situation where a motor vehicle in-transport is towing another unit (motor vehicle, trailer, etc.) and the second unit collides into the back of the power unit (not a Jackknife or part of a collision event).

05 (Fell/Jumped from Vehicle) is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens, and the occupant falls out; or a person riding on a vehicle’s exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

Collision With Motor Vehicle In-Transport:

54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport) is used when the injury- or damage-producing event is two motor vehicles in-transport making contact by something set-in-motion by one or both of the vehicles.

In crashes involving harmful events caused by objects set-in-motion by a motor vehicle in-transport, remember that a vehicle’s load is considered to be part of the vehicle.

Examples:

- If cargo falls from a truck (in-transport) and strikes another motor vehicle **in-transport**, this is treated as a two-vehicle crash. Therefore, the proper code for both vehicles is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** and the AREA OF IMPACT (THIS VEHICLE) column is coded **18 (Cargo/Vehicle Parts Set-In-Motion)**.
- If an **in-transport** vehicle strikes an at-rest object that was previously cargo or part of another motor vehicle in-transport, the SEQUENCE OF EVENTS for that event is **73 (Object That Had Fallen from Motor Vehicle In-Transport)**. If that object is then propelled into another motor vehicle in-transport, the proper SEQUENCE OF EVENTS attribute for this next event is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** and the AREA OF IMPACT (THIS VEHICLE) column is coded **19 (Other Objects or Person Set-In-Motion)**.
- If an **in-transport** vehicle strikes an at-rest object that was not cargo or part of another motor vehicle in-transport, the SEQUENCE OF EVENTS for that event is **18 (Other Object [Not Fixed])**. If that object is then propelled into another motor vehicle in-transport, the proper SEQUENCE OF EVENTS code for this next event is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** and the AREA OF IMPACT (THIS VEHICLE) column is coded **19 (Other Objects or Person Set-In-Motion)**.

This attribute does not apply when the cargo, people, or objects set-in-motion by an in-transport motor vehicle strikes something other than another in-transport motor vehicle. In this case, use the applicable “[collision with non-fixed object](#)” or “[collision with fixed object](#)” code for the object struck by the cargo, person, or object set- in-motion.

Examples:

- If cargo falls from a truck (in-transport) and strikes another vehicle that is not-in-transport, the proper SEQUENCE OF EVENTS attribute is **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)** depending on which type of not-in-transport vehicle was contacted by the load and the AREA OF IMPACT (THIS VEHICLE) column is coded **18 (Cargo/Vehicle Parts Set-In-Motion)**.
- If cargo falls from a truck (in-transport) and strikes a pedestrian, the proper SEQUENCE OF EVENTS attribute would be **08 (Pedestrian)** and the AREA OF IMPACT (THIS VEHICLE) column is coded **18 (Cargo/Vehicle Parts Set-In-Motion)**.
- If a pedestrian is struck by an at-rest object propelled by an in-transport vehicle (parked motor vehicle, stop sign, etc.), the proper SEQUENCE OF EVENTS attribute for this harmful event is **08 (Pedestrian)** and the AREA OF IMPACT (THIS VEHICLE) column is coded **19 (Other Objects or Person Set-In-Motion)**.

55 (Motor Vehicle in Motion Outside the Trafficway) is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

Example:

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

Collision With Object Not Fixed:

08 (Pedestrian) is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

09 (Pedalcyclist) is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle, or pedal car.

If a non-motorist is hit as a result of a vehicle-to-vehicle collision and you cannot reasonably determine which vehicle struck the non-motorist, use the lowest vehicle number of the MVIT(s) involved in the vehicle-to-vehicle event that resulted in the pedestrian or pedalcyclist collision.

10 (Railway Vehicle) is any land vehicle that is (1) designed primarily for, or in use for, moving people or property from one place to another on rails and (2) not in use on a land way other than a railway.

- Inclusions: Railway Trains, Streetcar/trolley on private way.
- Exclusions: Streetcar/trolley operating on trafficway.

74 (Road Vehicle on Rails) is any land vehicle on rails operating in a trafficway.

- Inclusions: Streetcar/trolley operating on trafficway.
- Exclusions: Railway Trains, Streetcar/trolley on private way, Streetcar/trolley or electric bus operating on tires.

11 (Live Animal) is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart, or other transport device (see [ANSI D16.1](#)). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead, or if it was being ridden or drawing a transport device.

49 (Ridden Animal or Animal-Drawn Conveyance) is used for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass.

18 (Other Object [Not Fixed]) is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport, or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider, downed tree limbs or power lines, or debris from a prior crash). For objects that have become separated from a motor vehicle in-transport not as a result of a prior crash, use attribute [73 \(Object That Had Fallen from Motor Vehicle In- Transport\)](#).

15 (Non-Motorist on Personal Conveyance) is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a

pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

Inclusions:

1. Rideable toys
 - a. Roller skates, in-line skates
 - b. Skateboards
 - c. Skates
 - d. Baby carriages
 - e. Scooters
 - f. Toy wagons
2. Motorized rideable toys
 - a. Motorized skateboards
 - b. Motorized toy cars
3. Devices for personal mobility assistance
 - a. Segway-style devices
 - b. Motorized and non-motorized wheelchairs
 - c. Handicapped scooters

Exclusions:

1. Golf carts
2. Low Speed Vehicles (LSVs)
3. Go-carts
4. Minibikes
5. “Pocket” motorcycles
6. Motor scooters
7. Mopeds

14 (Parked Motor Vehicle) is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport.

45 (Working Motor Vehicle) is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance, or utility work related to the trafficway when it became an involved unit. *The vehicle should be known to be in the act of performing work.* This “work” may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc. *DO NOT evaluate this attribute on Body Type alone.*

Examples:

1. Asphalt/steamroller working in a highway construction zone paving the roadway or flattening dirt.

2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a “cherry picker,” performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A State, county, or privately owned snowplow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle that is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling, or calming influence.

A question may arise when a police, fire, or emergency medical vehicle is struck while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, “has its function changed from being a motor vehicle in-transport to a working vehicle?” The answer is “no.”

73 (Object That Had Fallen from Motor Vehicle In-Transport) is used when a motor vehicle in- transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in- transport. Do not use this attribute for debris from a prior crash. This attribute does not include vehicle occupants that are ejected or fall from a motor vehicle in-transport (e.g., a motorcycle operator falling from a motorcycle.) For people falling from a motor vehicle, see non-collision event [05 \(Fell/Jumped From Vehicle\)](#). For impacts involving two motor vehicles in-transport resulting from cargo, people, or objects set in motion, see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by another Motor Vehicle In-Transport\)](#). *For at rest detached trailers (e.g., a detached semi-trailer), use attribute [18 \(Other Object \[Not Fixed\]\)](#). If cargo fell from a vehicle, came to rest, and was struck, this attribute would apply. If the cargo was at rest as a result of a prior crash, use attribute [18 \(Other Object \[Not Fixed\]\)](#).*

91 (Unknown Object Not Fixed) is used when the event involves an object that is known to be not fixed but the case materials do not identify the specific object.

Collision With Fixed Object:

The attributes [58 \(Ground\)](#), [33 \(Curb\)](#), [34 \(Ditch\)](#), and [35 \(Embankment\)](#) are grouped under the Collision With Fixed Object subset because they are intended to be harmful events in the crash (i.e., they are associated with an impact that produces injury or damage).

When coding these events there must be fields on the police crash report or verbiage in the narrative such as “struck,” “hit,” “impacted,” etc. that identify these as harmful.

For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any police crash report field. In these instances, code the harmful event as stated in the narrative and include the corresponding attribute under [AREAS OF IMPACT](#).

If there is no indication of damage from contact with the fixed object in fields on the police crash report, and the narrative language does not identify it as a harmful event (e.g., “came to rest on the embankment,” “drove through” or “drove across” the ditch and/or the embankment, or “drove over” the curb), do not code [33 \(Curb\)](#), [34 \(Ditch\)](#), or [35 \(Embankment\)](#) in the SEQUENCE OF EVENTS.

17 (Boulder) is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact.

19 (Building) is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

58 (Ground) is used when the impact is with an earthen or paved surface off of the roadway. **58 (Ground)** is not to be entered when the harmful event is [01 \(Rollover/Overturn\)](#).

- Indication of furrowing, gouging, or digging in of the tires/wheels is not sufficient to code the collision event **58 (Ground)**. For example, if the police crash report narrative states “the truck’s tires dug into the turf causing the vehicle to rollover,” the harmful event should be [01 \(Rollover/Overturn\)](#).

20 (Impact Attenuator/Crash Cushion) is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

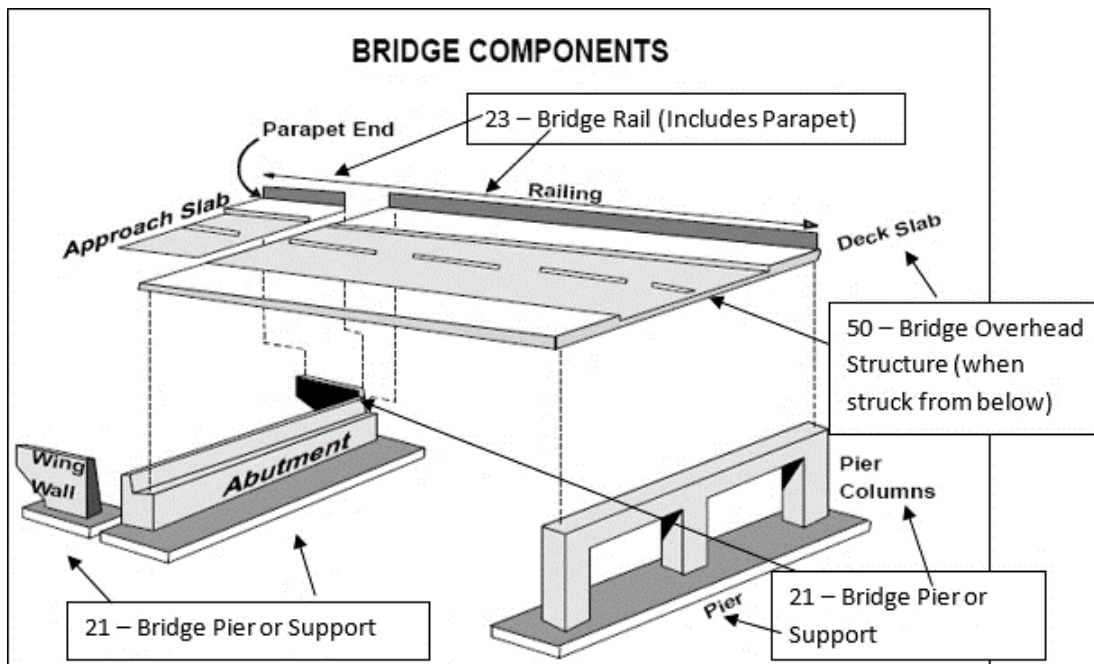
50 (Bridge Overhead Structure) is used when striking the bottom of a bridge while traveling underneath it. See [Figure 5](#).

21 (Bridge Pier or Support) is a square or round column of stone, concrete, brick, steel, or wood for supporting a bridge between abutments. This attribute includes the bridge abutments that are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick, or wood (includes the wing-walls). See [Figure 5](#).

23 (Bridge Rail [Includes Parapet]) is a wooden, brick, stone, concrete, or metal fence-like structure that runs along the outermost edge of the roadway or sidewalk on the bridge, or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet. See [Figure 5](#)

- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

Figure 5. Bridge Components Diagram



24 (Guardrail Face) is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from **25 (Concrete Traffic Barrier)** by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

Guardrails that serve as bridge rails should be coded as **23 (Bridge Rail [Includes Parapet])**.

52 (Guardrail End) is coded if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

25 (Concrete Traffic Barrier) refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here (see **39 (Wall)**).

57 (Cable Barrier) refers to a flexible barrier system that uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within confined areas.

26 (Other Traffic Barrier) is used for all other longitudinal barriers such as wood or rock.

59 (Traffic Sign Support) is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and *elevated* signs.

46 (Traffic Signal Support) is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport.

30 (Utility Pole/Light Support) refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable, and other utility pole-type supports.

31 (Other Post, Other Pole, or Other Supports) is used for posts other than highway signs, utility poles, or light supports (reflectors on poles alongside of roadway, parking meters, flag poles, etc.). For mailbox posts, use [53 \(Mail Box\)](#). For fence posts, use [38 \(Fence\)](#).

32 (Culvert) is a man-made drain or channel crossing under a road, sidewalk, etc.

33 (Curb) is a concrete or asphalt structure that borders the paved surface. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the police crash report provides some indication that damage has occurred when a vehicle strikes a curb. This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median, or separator use **33 (Curb)** not [43 \(Other Fixed Object\)](#).

34 (Ditch) includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank,” “embankment of the ditch,” or “ditch embankment” should be coded under **34 (Ditch)**.

35 (Embankment) is a raised structure to hold back water, to carry a roadway, or the result of excavation or washout (including erosion) that may be faced with earth (or rock, stone, or concrete). A **35 (Embankment)** can usually be differentiated from a [39 \(Wall\)](#) by its incline whereas a wall is usually vertical. However, there are exceptions to this, such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

- In crashes involving a field approach or driveway crossing, use attribute **35 (Embankment)** when no specific components (e.g., culverts or ditches) are identified.

38 (Fence) includes the fence posts. A Fence can be made of wood, chain link, stone, etc.

39 (Wall) is a primarily vertical structure composed of concrete, metal, timber, or stone that is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as a **39 (Wall)**, are headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls, that are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as [21 \(Bridge Pier or Support\)](#).

40 (Fire Hydrant) refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire standpipes in some areas.

41 (Shrubbery) refers to vegetation, that is usually of a woody, multi-stemmed variety and in most instances, is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn, and mountain laurel.

41 (Tree [Standing Only]) is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches, tree stumps, or large cacti (Saguaro). If a vehicle strikes a fallen

tree, use [18 \(Other Object \[Not Fixed\]\)](#). If a tree falls on a vehicle as it is passing by, use [16 \(Thrown or Falling Object\)](#).

48 (Snow Bank) is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice that are not snow-covered earth or rock embankments.

53 (Mail Box) refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This attribute does not include U.S. Mailboxes, that are typically blue and are for general public use. Code a U.S. Mailbox as [43 \(Other Fixed Object\)](#).

43 (Other Fixed Object) is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. This attribute excludes collisions with curbing that forms raised islands, medians, or separators (see [33 \(Curb\)](#)).

Examples:

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U.S. Mailbox for public use

Other examples would include property damage to standing crops, yards, and other vegetation (excluding: [41 \(Shrubbery\)](#), [42 \(Tree \[Standing Only\]\)](#), and [58 \(Ground\)](#)) if noted on the crash report.

When the case materials identify a non-specific object impact, apply the following guidelines. If the case materials only identify the harmful event as:

- “Fixed Object,” then use [43 \(Other Fixed Object\)](#).
- “Sign,” then use [59 \(Traffic Sign Support\)](#).
- “Post,” then use [31 \(Other Post, Other Pole, or Other Supports\)](#).
- “Signpost,” then use [59 \(Traffic Sign Support\)](#).
- “Bridge,” then use [23 \(Bridge Rail \[Includes Parapet\]\)](#) when the vehicle is on top of the bridge. When the vehicle is going under the bridge, use [21 \(Bridge Pier or Support\)](#).
- “Barrier,” then use [26 \(Other Traffic Barrier\)](#).

93 (Unknown Fixed Object) is used when the event involves an object that is known to be fixed but the case materials do not identify the specific object.

Not Reported/Unknown

98 (Harmful Event, Details Not Reported) is used when a harmful event was reported but the object classification was not reported.

99 (Reported as Unknown) is used when police indicate unknown.

V33 - Most Harmful Event**Format**

2 numeric

SAS Name

Vehicle.M_HARM, Parkwork.PM_HARM

Element Values**Non-Collision Most Harmful Events:**

Codes	Attributes
01	Rollover/Overturn
02	Fire/Explosion
03	Immersion or Partial Immersion
04	Gas Inhalation
51	Jackknife (harmful to this vehicle)
06	Injured in Vehicle (Non-Collision)
44	Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
07	Other Non-Collision
16	Thrown or Falling Object
72	Cargo/Equipment Loss, Shift, or Damage (harmful)
05	Fell/Jumped from Vehicle

Collision With Motor Vehicle In-Transport:

Codes	Attributes
54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	Motor Vehicle in Motion Outside the Trafficway

Collision With Object Not Fixed:

Codes	Attributes
08	Pedestrian
09	Pedalcyclist
10	Railway Vehicle
74	Road Vehicle on Rails
11	Live Animal
49	Ridden Animal or Animal Drawn Conveyance
18	Other Object (Not Fixed)
15	Non-Motorist on Personal Conveyance
14	Parked Motor Vehicle
45	Working Motor Vehicle

Codes	Attributes
73	Object That Had Fallen from Motor Vehicle In-Transport
91	Unknown Object Not Fixed

Collision With Fixed Object:

Codes	Attributes
17	Boulder
19	Building
58	Ground
20	Impact Attenuator/Crash Cushion
50	Bridge Overhead Structure
21	Bridge Pier or Support
23	Bridge Rail (Includes Parapet)
24	Guardrail Face
52	Guardrail End
25	Concrete Traffic Barrier
57	Cable Barrier
26	Other Traffic Barrier
59	Traffic Sign Support
46	Traffic Signal Support
30	Utility Pole/Light Support
31	Other Post, Other Pole, or Other Supports
32	Culvert
33	Curb
34	Ditch
35	Embankment
38	Fence
39	Wall
40	Fire Hydrant
41	Shrubbery
42	Tree (Standing Only)
48	Snow Bank
53	Mail Box
43	Other Fixed Object
93	Unknown Fixed Object

Not Reported/Unknown

Code	Attribute
98	<i>Harmful Event, Details Not Reported</i>
99	Reported as Unknown

Definition

This element identifies the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.

Remarks

Must be the major event **FOR THIS VEHICLE**, even if different from the [FIRST HARMFUL EVENT](#). **Code for each vehicle. May be different for each vehicle.**

Code using the following hierarchy:

Fatalities/injuries to non-occupants are attributed to the vehicle that struck them when applying this hierarchy.

A. FATALITIES take precedence over INJURIES.

1. If this vehicle is involved in more than one event that causes fatality to its own occupants or to people not in a motor vehicle, choose the event that causes the greatest number of fatalities to occupants of this vehicle or to people not in a motor vehicle (not occupants of other vehicles). I.e., if there are fatalities to non-occupants and vehicle occupants in separate events, the greater number of fatalities is more harmful.
2. If this vehicle is involved in more than one event that causes fatality to its own occupants or to people not in a motor vehicle; and if there are an equal number of fatalities in each such event, choose the fatal event that is worst with respect to other injuries and property damage. I.e., if there are equal numbers of fatalities in each event, the event that also has additional injuries/damage is more harmful.
3. As a last resort, choose the fatal event that occurred first, timewise.

B. INJURIES take precedence over PROPERTY DAMAGE.

1. If the vehicle is not involved in events that cause fatality to its occupants or to people not in a motor vehicle, choose the event that produces the worst injury.
2. If in doubt, choose the event with the greatest number of injuries.
3. If in doubt, choose the event that occurred first, timewise.

C. If only PROPERTY DAMAGE results for this vehicle:

1. Choose the event causing the most damage.
2. If in doubt, choose the event that happened first, timewise.

Non-Collision Most Harmful Events:***Non-Collision events involving motorcycles and vehicles with a “load”:***

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

Examples:

- A motorcycle strikes a deer, overturns, and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “Rollover/Overturn” and “Fell/Jumped from Vehicle” that occur as part of the collision event.

- One *truck* tractor/trailer rear-ends another *truck* tractor/trailer. The impact pushes the lead vehicle's load into the back of the *truck* tractor cab with part falling onto the roadway. Code the collision event, not the non-collision "cargo-loss or shift" that occurred as part of the collision event.

Most Harmful Event Coding Procedures for Parked and Working Motor Vehicles

1. If the MOST HARMFUL EVENT for a parked/working motor vehicle is an impact with a motor vehicle in- transport, use **55 Motor Vehicle in Motion Outside the Trafficway**.
 - a. Example: A parked motor vehicle (V2) is struck by an in-transport motor vehicle (V1) and this is the MOST HARMFUL EVENT for the parked motor vehicle (V2). The MOST HARMFUL EVENT for the parked motor vehicle (V2) is **55 Motor Vehicle in Motion Outside the Trafficway**.
2. If the MOST HARMFUL EVENT for a parked/working motor vehicle is an impact with something after it has been set-in-motion, code that other thing.
 - a. Example: In a chain reaction crash, an in-transport motor vehicle (V1) strikes a parked motor vehicle (V2) injuring the person sitting in the driver's seat of V2. The parked motor vehicle (V2) is pushed into an unoccupied motor vehicle (V3) and the parked motor vehicle (V3) strikes and kills a pedestrian. The MOST HARMFUL EVENT for parked motor vehicle (V3) is **08 (Pedestrian)**.
3. If the MOST HARMFUL EVENT for a parked/working motor vehicle is an impact with anything set-in- motion except another parked or working motor vehicle, see attribute **55 Motor Vehicle in Motion Outside the Trafficway**.
4. If the MOST HARMFUL EVENT for a parked/working motor vehicle is an impact with another parked or working motor vehicle that has been set-in-motion, use **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)**, whichever describes the object set-in-motion.
5. The MOST HARMFUL EVENT for a parked/working motor vehicle can be a non-collision harmful event not recorded in the CRASH EVENTS list. For example, if a parked vehicle rolls over after an impact with an in-transport motor vehicle and the MOST HARMFUL EVENT is the rollover, then use code **01 (Rollover/Overturn)**.
 - a. Example: A parked motor vehicle (V2) is struck by an in-transport vehicle (V1). The parked motor vehicle (V2) is pushed down an embankment and rolls over. The case materials indicate the most harmful event for the parked motor vehicle (V2) is the rollover. The MOST HARMFUL EVENT for the parked motor vehicle (V2) is **01 (Rollover/ Overturn)**.

01 (Rollover/Overturn) is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end. For motorcycles, laying the motorcycle down on its side is sufficient to code **01 (Rollover/Overturn)** as a harmful event if damage or injury is produced.

- If there is a **01 (Rollover/Overturn)** that begins in another location but involves a ditch or embankment in the case (e.g., "rolled through the ditch," "rolled down the embankment," "came to rest against the embankment"), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the CRASH EVENTS. If there is indication that damage resulted from

an impact with the fixed object, it is included in the CRASH EVENTS. This follows the same logic as striking a tree or another vehicle during an overturn.

NOTE: For medium/heavy trucks with attached trailers by fixed linkage, when either the power unit or the trailer rolls over, the entire vehicle will be considered a rollover.

02 (Fire/Explosion) is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

- As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle's occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (in open fields, on hillsides, etc.), or to vehicles removed from the scene to another location (tow yard, curbside, etc.), are not considered part of the crash sequence.

03 (Immersion or Partial Immersion) is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water and the depth cannot be ascertained from case materials. **NOTE:** In immersion fatalities, the injury to the person may be noted as “drowning.”

04 (Gas Inhalation) includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

51 (Jackknife [harmful to this vehicle]) applies to a condition that occurs to an articulated vehicle (any vehicle with a trailing unit[s] connected by a hitch; truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

06 (Injured in Vehicle [Non-Collision]) is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.]) is used when the pavement surface irregularity is on a paved surface. Other examples include indication of contact with a dip, depression, low spot, trough, etc. If the impact is with a surface irregularity (e.g., ruts, potholes) not on a paved surface, use the **58 (Ground)**. For a vehicle that “bottoms out” on the paved surface (causing damage) due to speed but not because of a pavement surface irregularity, use attribute **07 (Other Non-Collision)**.

07 (Other Non-Collision) Non-collision not captured in the listed non-collision attributes.

Examples:

- Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).

- A vehicle “bottoms out” (causing damage) due to speed but not because of a pavement surface irregularity. **Damage** due to pavement surface irregularities should be coded **44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.]**).

16 (Thrown or Falling Object) is used when any object: (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set-in-motion by a motor vehicle (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport\)](#)).

72 (Cargo/Equipment Loss, Shift, or Damage [harmful]) refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, causing damage and/or injury to the vehicle, its occupants, its parts, trailing unit, or the cargo itself. Harm can be measured in loss of monetary value from unrecoverable cargo loss as well as physical damage. This attribute should never be used to refer to a “collision” event (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport\)](#)).

Examples:

- A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.
- Unsecured cargo shifts inside a box truck and bursts through the wall of the trailer.
- Pallets of beehives on a flatbed truck fall off the truck on a sharp curve causing the hives to open and the bees to fly away.

Notes:

In situations when a cargo shift is part of a collision event, the cargo shift is not coded separately. See [Non- Collision events involving motorcycles and vehicles with a “load.”](#)

- Use [07 \(Other Non-Collision\)](#) in a situation where a motor vehicle in-transport is towing another unit (motor vehicle, trailer, etc.) and the second unit collides into the back of the power unit (not a Jackknife or part of a collision event).

05 (Fell/Jumped from Vehicle) is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens and the occupant falls out; or a person riding on a vehicle’s exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

Collision With Motor Vehicle In-Transport:

54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport) applies only to events involving two in-transport motor vehicles. It is used in two situations: 1) The most harmful injury- or damage-producing event for an in-transport motor vehicle is when something it sets in motion (cargo,

person, object) strikes another in-transport motor vehicle. 2) The most harmful injury- or damage-producing event for an in-transport motor vehicle is when it is struck by cargo, people, or objects set-in-motion by another in-transport motor vehicle.

Example:

- Cargo that fell from an in-transport motor vehicle (V1) is involved in an impact with V2, another in- transport motor vehicle. The case materials indicate this is the most harmful event for both V1 and V2. MOST HARMFUL EVENT is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** for both V1 and V2.

When selecting the MOST HARMFUL EVENT, **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** does not have to be the MOST HARMFUL EVENT for both vehicles.

Example:

- Cargo that fell from an in-transport motor vehicle (V1) is involved in an impact with V2, another in- transport motor vehicle. This event is the only event for V1. Thus, **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport)** is the MOST HARMFUL EVENT for V1. The case material identifies a subsequent impact by V2 with a tree as the MOST HARMFUL EVENT for V2. Thus, [42 \(Tree \[Standing Only\]\)](#) is the MOST HARMFUL EVENT for V2.

This attribute does not apply when the MOST HARMFUL EVENT for an **in-transport motor vehicle** is an impact between cargo, a person, or object it set-in-motion and something other than a motor vehicle in-transport. In this case, use the “[collision with non-fixed object](#)” or “[collision with fixed object](#)” code that is applicable.

Examples:

- If the MOST HARMFUL EVENT for an in-transport motor vehicle is when cargo that fell off its trailer strikes a pedestrian, code [08 \(Pedestrian\)](#).
- If the MOST HARMFUL EVENT for an in-transport motor vehicle is when a parked motor vehicle it set-in- motion strikes a pedestrian, code [08 \(Pedestrian\)](#).
- If the MOST HARMFUL EVENT for an in-transport motor vehicle is when cargo that fell off its trailer strikes a parked motor vehicle, code [14 \(Parked Motor Vehicle\)](#).

55 (Motor Vehicle in Motion Outside the Trafficway) is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

Example:

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

Parked and Working Motor Vehicles:

This attribute is used for parked and working motor vehicles when their MOST HARMFUL EVENT is an impact with a motor vehicle in-motion off the trafficway.

This attribute also applies to parked and working motor vehicles when their MOST HARMFUL EVENT is an impact with any object set-in-motion other than another parked or working motor vehicle. Set-in-motion objects include cargo, people, stone, stop sign, tire tread, and debris from a previous impact. If the object set-in-motion is another parked or working motor vehicle use **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)**, whichever describes the object set-in-motion.

Examples:

- If the MOST HARMFUL EVENT for V1 (a motor vehicle in-motion off the trafficway) is when V1 impacts V2 (another motor vehicle in-motion off the trafficway), then the MOST HARMFUL EVENT for V1 is **55 Motor Vehicle in Motion Outside the Trafficway**
- If the most harmful event for V2 (a parked motor vehicle) is when V2 is struck by V1 (a motor vehicle in- motion off the trafficway), then the MOST HARMFUL EVENT for V2 is **55 Motor Vehicle in Motion Outside the Trafficway**
- If the MOST HARMFUL EVENT for V2 (a parked motor vehicle) is when V2 is struck by a stop sign set-in- motion by V1 (a motor vehicle in-motion outside the trafficway), then the MOST HARMFUL EVENT for V2 is **55 Motor Vehicle in Motion Outside the Trafficway**.
- If V1 (a motor vehicle in-motion outside the trafficway) strikes V2 (a parked motor vehicle) and V2 then strikes V3 (a parked motor vehicle), then the MOST HARMFUL EVENT for V3 is **14 (Parked Motor Vehicle)**.

Collision With Object Not Fixed:

08 (Pedestrian) is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

09 (Pedalcyclist) is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle, or pedal car.

If a non-motorist is hit as a result of a vehicle-to-vehicle collision and you cannot reasonably determine which vehicle struck the non-motorist, use the lowest vehicle number of the MVIT(s) involved in the vehicle-to-vehicle event that resulted in the pedestrian or pedalcyclist collision.

10 (Railway Vehicle) is any land vehicle that is (1) designed primarily for, or in use for, moving people or property from one place to another on rails and (2) not in use on a land way other than a railway.

- **Inclusions:** Railway Trains, Streetcar/trolley on private way.
- **Exclusions:** Streetcar/trolley operating on trafficway.

74 (Road Vehicle on Rails) is any land vehicle on rails operating in a trafficway.

- **Inclusions:** Streetcar/trolley operating on trafficway.
- **Exclusions:** Railway Trains, Streetcar/trolley on private way, Streetcar/trolley or electric bus operating on tires.

11 (Live Animal) is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart, or other transport device (see [ANSI D16.1](#)). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead, or if it was being ridden or drawing a transport device.

49 (Ridden Animal or Animal-Drawn Conveyance) is used for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass.

18 (Other Object [Not Fixed]) is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider, downed tree limbs or power lines, or debris from a prior crash). For objects that have become separated from a motor vehicle in-transport not as a result of a prior crash, use attribute [73 \(Object That Had Fallen from Motor Vehicle In- Transport\)](#).

15 (Non-Motorist on Personal Conveyance) is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

Inclusions:

1. Rideable toys
 - a. Roller skates, in-line skates
 - b. Skateboards
 - c. Skates
 - d. Baby carriages
 - e. Scooters
 - f. Toy wagons
2. Motorized rideable toys
 - a. Motorized skateboards
 - b. Motorized toy cars
3. Devices for personal mobility assistance
 - a. Segway-style devices
 - b. Motorized and non-motorized wheelchairs
 - c. Handicapped scooters

Exclusions:

1. Golf carts
2. Low Speed Vehicles (LSVs)
3. Go-carts
4. Minibikes
5. “Pocket” motorcycles

6. Motor scooters
7. Mopeds

14 (Parked Motor Vehicle) is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport. This attribute would also apply for a parked vehicle struck by another parked vehicle. For example, if a motor vehicle in-transport hits a parked vehicle and pushes it into a second parked vehicle (the only event for the second parked vehicle), the most harmful event for the second parked vehicle is **14 (Parked Motor Vehicle)**.

45 (Working Motor Vehicle) is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance, or utility work related to the trafficway when it became an involved unit. *The vehicle should be known to be in the act of performing work.* This “work” may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc. **DO NOT evaluate this attribute on Body Type alone.**

Examples:

1. Asphalt/steamroller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a “cherry picker,” performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A State, county, or privately owned snowplow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle that is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling, or calming influence.

NOTE: Code “45” excludes working activities other than highway construction, maintenance, or utility vehicles (garbage truck picking up trash, mail/delivery trucks while making deliveries, personal vehicles plowing snow, etc. These are considered motor vehicles In-motion off the trafficway).

A question may arise when a police, fire, or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, “has its function changed from being a motor vehicle in-transport to a working vehicle?” The answer is “no.” Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport. Use RELATED FACTORS-VEHICLE LEVEL code [41 \(Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing](#)

[Other Traffic Control Activities](#) to identify that this vehicle was struck while performing these work activities.

73 (Object That Had Fallen from Motor Vehicle In-Transport) is used when a motor vehicle in-transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in-transport. Do not use this attribute for debris from a prior crash. This attribute does not include vehicle occupants that are ejected or fall from a motor vehicle in-transport (e.g., a motorcycle operator falling from a motorcycle). For people falling from a motor vehicle, see the non-collision event [05 \(Fell/Jumped From Vehicle\)](#). For impacts involving two motor vehicles in-transport resulting from cargo, people, or objects set in motion, see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set-in-Motion from/by another Motor Vehicle In-Transport\)](#). *For at rest detached trailers (e.g., a detached semi-trailer), use attribute [18 \(Other Object \[Not Fixed\]\)](#). If cargo fell from a vehicle, came to rest, and was struck, this attribute would apply. If the cargo was at rest in the roadway as a result of a prior *crash*, use attribute [18 \(Other Object \[Not Fixed\]\)](#).*

91 (Unknown Object Not Fixed) is used when the event involves an object that is known to be not fixed but the case materials do not identify the specific object.

Collision With Fixed Object:

The attributes [58 \(Ground\)](#), [33 \(Curb\)](#), [34 \(Ditch\)](#), and [35 \(Embankment\)](#) are grouped under the Collision With Fixed Object subset because they are intended to be harmful events in the crash (i.e., they are associated with an impact that produces injury or damage).

When coding these events there must be fields on the police crash report or verbiage in the narrative such as “struck,” “hit,” “impacted,” etc. that identify these as harmful.

For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any police crash report field. In these instances, code the harmful event as stated in the narrative and include the corresponding attribute under [AREAS OF IMPACT](#).

If there is no indication of damage from contact with the fixed object in fields on the police crash report and the narrative language does not identify it as a harmful event (e.g., “came to rest on the embankment,” “drove through” or “drove across” the ditch and/or the embankment, or “drove over” the curb), do not code [33 \(Curb\)](#), [34 \(Ditch\)](#), or [35 \(Embankment\)](#) in the [SEQUENCE OF EVENTS](#).

17 (Boulder) is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact. It may be considered as a fixed object.

19 (Building) is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

58 (Ground) is used when the impact is with an earthen or paved surface off of the roadway. **58 (Ground)** is not to be entered when the harmful event is [01 \(Rollover/Overturn\)](#).

- Indication of furrowing, gouging, or digging in of the tires/wheels is not sufficient to code the collision event **58 (Ground)**. For example, if the police crash report narrative

states “the trucks tires dug into the turf causing the vehicle to roll over,” the harmful event should be [01 \(Rollover/Overturn\)](#).

20 (Impact Attenuator/Crash Cushion) is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

50 (Bridge Overhead Structure) is used when striking the bottom of a bridge while traveling underneath it. See [Figure 5](#) for a diagram of Bridge Components.

21 (Bridge Pier or Support) is a square or round column of stone, concrete, brick, steel, or wood for supporting a bridge between abutments. This attribute includes the bridge abutments that are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick, or wood (includes the wing-walls). See [Figure 5](#) for a diagram of Bridge Components.

23 (Bridge Rail [Includes Parapet]) is a wooden, brick, stone, concrete, or metal fence-like structure that runs along the outermost edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet. See [Figure 5](#) for a diagram of Bridge Components.

- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

24 (Guardrail Face) is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from [25 \(Concrete Traffic Barrier\)](#) by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

- Guardrails that serve as bridge rails should be coded as [23 \(Bridge Rails \[Includes Parapet\]\)](#).

52 (Guardrail End) is coded if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

25 (Concrete Traffic Barrier) refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here (see [39 \(Wall\)](#)).

57 (Cable Barrier) refers to a flexible barrier system that uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

26 (Other Traffic Barrier) is used for all other longitudinal barriers such as wood or rock.

59 (Traffic Sign Support) is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and *elevated* signs.

46 (Traffic Signal Support) is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport.

30 (Utility Pole/Light Support) refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable, and other utility pole-type supports.

31 (Other Post, Other Pole, or Other Supports) is used for posts other than highway signs, utility poles, or light supports (reflectors on poles alongside of roadway, parking meters, flag poles, etc.). For mailbox posts, use [53 \(Mail Box\)](#). For fence posts, use [38 \(Fence\)](#).

32 (Culvert) is a man-made drain or channel crossing under a road, sidewalk, etc.

33 (Curb) is a concrete or asphalt structure that borders the paved surface. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the police crash report provides some indication that damage has occurred when a vehicle strikes a curb. This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median, or separator, use **33 (Curb)** not [43 \(Other Fixed Object\)](#).

34 (Ditch) includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank,” “embankment of the ditch,” or “ditch embankment” should be coded under **34 (Ditch)**.

35 (Embankment) is a raised structure to hold back water, to carry a roadway, or the result of excavation or washout (including erosion) that may be faced with earth (or rock, stone, or concrete). A **35 (Embankment)** can usually be differentiated from a [39 \(Wall\)](#) by its incline whereas a wall is usually vertical. However, there are exceptions to this, such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

- In crashes involving a field approach or driveway crossing, use attribute **35 (Embankment)** when no specific components (e.g., culverts or ditches) are identified.

38 (Fence) includes the fence posts. A Fence can be made of wood, chain link, stone, etc.

39 (Wall) is a primarily vertical structure composed of concrete, metal, timber, or stone that is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as a **39 (Wall)** are headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls that are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as [21 \(Bridge Pier or Support\)](#).

40 (Fire Hydrant) refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire standpipes in some areas.

41 (Shrubbery) refers to vegetation that is usually of a woody multi-stemmed variety and in most instances, is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn, and mountain laurel.

42 (Tree [Standing Only]) is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches, tree stumps, or large cacti (Saguaro). If a vehicle strikes a fallen tree, use [18 \(Other Object \[Not Fixed\]\)](#). If a tree falls on a vehicle as it is passing by, use [16 \(Thrown or Falling Object\)](#).

48 (Snow Bank) is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice that are not snow-covered earth or rock embankments.

53 (Mail Box) refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This element does not include U.S. Mailboxes, that are typically blue and is for general public use. Code a U.S. Mailbox as **43 (Other Fixed Object)**.

43 (Other Fixed Object) is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. This attribute excludes collisions with curbing that forms raised islands, medians, or separators (see also [33 \(Curb\)](#).)

Examples:

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U.S. Mailbox for public use

Other examples would include property damage to standing crops, yards, and other vegetation (excluding: [41 \(Shrubbery\)](#), [42 \(Tree \[Standing Only\]\)](#), and [58 \(Ground\)](#)) if noted on the crash report.

When the case materials identify a non-specific object impact, apply the following guidelines. If the case materials only identify the harmful event as:

- “Fixed Object,” then use [43 \(Other Fixed Object\)](#).
- “Sign,” then use [59 \(Traffic Sign Support\)](#).
- “Post,” then use [31 \(Other Post, Other Pole, or Other Supports\)](#).
- “Sign Post,” then use [59 \(Traffic Sign Support\)](#).
- “Bridge,” then use [23 \(Bridge Rail \[Includes Parapet\]\)](#) when the vehicle is on top of the bridge. When the vehicle is going under the bridge, use [21 \(Bridge Pier or Support\)](#).
- “Barrier,” then use [26 \(Other Traffic Barrier\)](#).

93 (Unknown Fixed Object) is used when the event involves an object that is known to be fixed but the case materials do not identify the specific object.

Not Reported/Unknown

98 (Harmful Event, Details Not Reported) is used when a harmful event was reported but the object classification was not reported.

99 (Reported as Unknown) is only used if the MOST HARMFUL EVENT is an event where the [SEQUENCE OF EVENTS](#) is [99 \(Reported as Unknown\)](#).

Driver Level Data Elements

Driver Level Data Elements

[D3 - Vehicle Number – Driver Level](#)

[D4 - Driver Presence](#)

D3 - Vehicle Number – Driver Level**Format**

3 numeric

SAS Name

Vehicle.VEH_NO

Element Values

000-999

Definition

This element identifies the vehicle number associated with this driver.

Remarks:

- Must be coded on an original submission
- System-Generated (MDE System Only)
- See [Vehicle Number-Vehicle Level](#) for assignments numbers.
- FOR DRIVERLESS, PARKED/STOPPED OFF ROADWAY/WORKING MOTOR VEHICLES, AND MOTOR VEHICLES IN MOTION OUTSIDE THE TRAFFICWAY, ONLY CODE [DRIVER PRESENCE \(D4\)](#).

D4 - Driver Presence

Format

1 numeric

SAS Name

Vehicle.DR_PRES

Element Values

Codes	Attributes
0	No Driver Present / Not Applicable
1	Yes
9	Unknown

Definition

This element identifies whether or not a driver was present in this vehicle at the onset of the unstabilized situation.

Remarks:

0 (No Driver Present/Not Applicable) is used when there is no person who was controlling this vehicle at the time of the crash.

- Also, use **0 (No Driver Present/Not Applicable)** when [UNIT TYPE](#) for this vehicle is not a motor vehicle in- transport ([UNIT TYPE](#) attributes “3, 4”). Use this attribute regardless of the presence of an occupant in the driver’s seat.

1 (Yes) is used when there is a person who is physically controlling the vehicle at the onset of the unstabilized situation for this crash. Do not use this attribute for a child sitting in the driver’s seat unless the case materials indicate the child was in control of the vehicle. Hit-and-run drivers are included in this attribute. A driver under medical distress would be included. This attribute includes when it is known there was a driver, but it is unknown which occupant was the driver at the time of the crash.

9 (Unknown) is used when it is unknown if there was a driver present in the vehicle at the time of the crash.

If coded **0 (No Driver Present/Not Applicable)** or **9 (Unknown)**, all other elements on the Driver Level must be left blank. A Person Level - Occupant of a Motor Vehicle form with [PERSON TYPE](#) equal to **01 (Driver of a Motor Vehicle In-Transport)** must not be submitted for that vehicle.

Pre-crash Level Data Elements

[PC3 - Vehicle Number - Pre-crash Level](#)

[PC14 - Driver's Vision Obscured By](#)

[PC16 - Driver Distracted By](#)

[PC17A - Last Movement](#)

[PC20 - Attempted Avoidance Maneuver](#)

[PC21 - Pre-Impact Stability](#)

PC3 - Vehicle Number – Precrash Level**Format**

3 numeric

SAS Name

Vehicle.VEH_NO

Element Values

001-999

Definition

This element identifies the number assigned to this vehicle in the crash.

Remarks

Each motor vehicle in a crash must be assigned a unique number by the Analyst. Order is not important.

Numbers assigned to vehicles must be consecutive, starting with “001” with no missing numbers.

PC14 - Driver's Vision Obscured By**Format**

2 numeric. Select All That Apply.

SAS Name

Vision.MVISOBSC

Element Values

Codes	Attributes
00	No Obstruction Noted
01	Rain, Snow, Fog, Smoke, Sand, Dust
02	Reflected Glare, Bright Sunlight, Headlights
03	Curve, Hill, or Other Roadway Design Feature
04	Building, Billboard, Other Structure
05	Trees, Crops, Vegetation
06	In-Transport Motor Vehicle (including load)
07	Not In-Transport Motor Vehicle (parked/working)
08	Splash or Spray of Passing Vehicle
09	Inadequate Defrost or Defog System
10	Inadequate Vehicle Lighting System
11	Obstruction Interior to the Vehicle
12	External Mirrors
13	Broken or Improperly Cleaned Windshield
14	Obstructing Angles on Vehicle
95	No Driver Present / Unknown if Driver Present
97	Vision Obscured – No Details
98	Other Visual Obstruction
99	Reported as Unknown

Definition

This data element records impediments to a driver's visual field that were noted in the case materials.

Remarks

These "visual obstructions" can appear anywhere in the case materials. Examples include a field on the police crash report (e.g., "Contributing Factors"), in the narrative section, in the violations section, or in witness statements.

00 (No Obstruction Noted) is used when the case materials give no indication of a visual obstruction for this driver.

01 (Rain, Snow, Fog, Smoke, Sand, Dust) is used when one or more of these conditions exist AND are noted to have obstructed the view of the driver. Do not use this attribute when only the

vehicle windshield is described as “fogged.” (See [09 \(Inadequate Defrost or Defog System\)](#) or [13 \(Broken or Improperly Cleaned Windshield\)](#).)

02 (Reflected Glare, Bright Sunlight, Headlights) is used when one or more of these conditions are noted to have obstructed the view of the driver.

03 (Curve, Hill, or Other Roadway Design Feature) is used when any of these roadway features or design elements is noted to have obstructed the view of the driver (including embankment, sag, etc.).

04 (Building, Billboard, Other Structure) is used when any of these man-made structures are noted to have obstructed the view of the driver (including traffic signs, poles, signals, etc.).

05 (Trees, Crops, Vegetation) is used when any of these natural features are noted to have obstructed the view of the driver.

06 (In-Transport Motor Vehicle [including load]) is used when a vehicle that is in motion is noted to have obstructed the view of the driver. The vehicle may be but does not have to be a contact vehicle in the case.

07 (Not In-Transport Motor Vehicle [parked, working]) is used when a vehicle that is parked in a designated parking area or space, stopped in an area off the roadway, or is a working motor vehicle is noted to have obstructed the view of the driver. The vehicle may be but does not have to be a contact vehicle in the case.

08 (Splash or Spray of Passing Vehicle) is used when this condition is noted to have obstructed the view of the driver. The splash or spray can come from water or mud; however, the use of this attribute does not require it to be raining at the time of the crash.

09 (Inadequate Defrost or Defog System) is used when the presence of frost or fog on the windshield was noted as being due to an inadequate system. The case materials must state specifically that the system was not operating properly. If the case materials state the presence of frost or fog alone on the windshield, you should use [13 \(Broken or Improperly Cleaned Windshield\)](#).

10 (Inadequate Vehicle Lighting System) is used when the case materials indicate this driver's vision was impaired because the exterior lighting system (including headlights, fog-lights, etc.) of the driver's vehicle was deficient in some way. This would include being turned off or not operating properly. This response should not be used to describe inadequate lighting systems of other vehicles (e.g., oncoming motor vehicles) or for inadequate highway lighting.

11 (Obstruction Interior to the Vehicle) is used when the case materials indicate this driver's vision was impaired because of a feature in the interior of their vehicle (including head restraint, rear-view mirror, window stickers, sunshades, ornaments, windshield tinting).

12 (External Mirrors) is used when the case materials indicate that an exterior mirror on this driver's vehicle created a visual obstruction.

13 (Broken or Improperly Cleaned Windshield) is used when this condition is noted to have obstructed the view of the driver. The presence of frost or fog on the windshield would apply. For a “fogged” or “frosted” windshield due to an inadequate or inoperable system see [09 \(Inadequate Defrost or Defog System\)](#).

14 (Obstructing Angles on Vehicle) is used when the case materials indicate that the size or shape of a driver's own vehicle created a visual obstruction (including trailer, vehicle height, blind spot). Not to be confused with visual obstructions from other vehicles or a vehicle's interior components such as head restraints, sunshades, etc.

95 (No Driver Present/Unknown if Driver Present) is used when there is no driver in this vehicle or when it is unknown if there is a driver present in this vehicle at the time of the crash.

97 (Vision Obscured - No Details) is used when the case materials indicate that a vision impediment exists but does not clearly indicate the nature of the impediment.

98 (Other Visual Obstruction) is used when the case materials indicate the nature of a vision impediment that cannot be attributed to one of the other attributes above. For example, an unattached trailer left on the road shoulder.

99 (Reported as Unknown) is used when the case materials specifically indicate unknown.

PC16 - Driver Distracted By

Format

2 numeric. Select All That Apply

SAS Name

Distract.MDRDSTRD

Element Values

Codes	Attributes
00	Not Distracted
16	No Driver Present / Unknown if Driver Present
96	Not Reported

Distractions

Codes	Attributes
03	By Other Occupant(s)
04	By a Moving Object in Vehicle
05	While Talking or Listening to <i>Mobile</i> Phone
06	While Manipulating <i>Mobile</i> Phone
15	Other Mobile Phone Related
07	Adjusting Audio or Climate Controls
09	While Using Other Component/Controls Integral to Vehicle
10	While Using or Reaching For Device/Object Brought Into Vehicle
12	Distracted by Outside Person, Object, or Event
13	Eating or Drinking
14	Smoking Related
17	Distraction/Inattention
18	Distraction/Careless
19	Careless/Inattentive
92	Distraction (Distracted), Details Unknown
93	Inattention (Inattentive), Details Unknown
97	Lost in Thought / Day Dreaming
98	Other Distraction (<i>Specify:</i>)
99	Reported as Unknown if Distracted

Definition

This element identifies the attribute(s) that best describe this driver's attention to driving prior to the driver's realization of an impending danger or just prior to impact if realization of an impending danger does not occur. ***This element reports on the presence of any distractions that may or may not have contributed to the crash.*** Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity. Also,

driving while daydreaming or lost in thought is identified as distracted driving by NHTSA. Physical conditions/impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA.

Remarks

Record the attribute(s) that best describes this driver's attention to driving prior to the driver's realization of an impending danger or just prior to impact if realization of an impending danger does not occur. Intoxication, Ill, Blackout, Asleep, or Fatigued are not considered distractions.

DRIVER DISTRACTED BY is a "Select All That Apply" element. If the element values [00 \(Not Distracted\)](#), [16 \(No Driver Present\)](#), [17 \(Distraction/ Inattention\)](#), [18 \(Distraction/Careless\)](#), [19 \(Careless/Inattentive\)](#), [92 \(Distraction \[Distracted\], Details Unknown\)](#), [93 \(Inattention \[Inattentive\], Details Unknown\)](#), [96 \(Not](#)

[Reported\)](#), or [99 \(Reported as Unknown if Distracted\)](#) are selected, then only that one element value may be used.

00 (Not Distracted)

- When the case materials indicate that the individual was completely attentive to driving.
- When the case materials do not indicate a distraction in an available field, and not reporting a distraction in that field indicates **00 (Not Distracted)**.
- For omission of information see [96 \(Not Reported\)](#) guidance below.

16 (No Driver Present/Unknown if Driver Present) is used when there is no driver in this vehicle or when it is unknown if there is a driver present in this vehicle at the time of the crash.

96 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."

Code **96 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

Distractions:

03 (By Other Occupant[s]) is used when the driver was distracted by another occupant in this driver's vehicle prior to realization of impending danger. Examples of other occupant distraction include conversing with or looking at another occupant (baby/child in back seat, rowdy teenager, argumentative spouse, etc.).

04 (By a Moving Object in Vehicle) is used when the driver was distracted by a moving object in this driver's vehicle prior to realization of impending danger. Examples include a dropped object, a moving pet, insect, or cargo.

05 (While Talking or Listening to Mobile Phone) is used when the driver is talking or listening on a *mobile* phone. This attribute includes talking or listening on a "hands-free" or Bluetooth enabled phone.

06 (While Manipulating Mobile Phone) is used when the driver is dialing or text messaging (texting) on a *mobile* phone. Any manual button/control actuation on the phone qualifies. This includes dialing or text messaging on any wireless e-mail device.

15 (Other Mobile Phone Related) is used when the case material indicates the driver is distracted from the driving task due to *mobile* phone involvement, but none of the specified codes are applicable (reaching for *mobile* phone, etc.). This attribute is also applied when specific details regarding *mobile* phone distraction/usage are not provided.

07 (Adjusting Audio or Climate Controls) is used when someone is distracted from the driving task while adjusting the air conditioner, heater, radio, cassette, using the radio, using the cassette, or CD that are mounted in the vehicle.

09 (While Using Other Component/Controls Integral to Vehicle) is used when the driver is distracted while manipulating a control in the vehicle including adjusting headlamps or interior lights, controlling windows (power or manual), manipulating door locks (power or manual), adjusting side view mirrors (power or manual), adjusting rear view mirror, adjusting seat (power or manual), adjusting steering wheel, adjusting seat belt, on-board navigational devices, etc. (original equipment).

10 (While Using or Reaching for Device/Object Brought into Vehicle) is used when the driver is distracted while using or reaching for a device in the vehicle including a radar detector, CDs, razors, music portable CD player, headphones, a navigational device, laptop, or tablet PC, etc. This attribute is also used when it cannot be determined if the involved device was OEM, brought into the vehicle, or a function of a *mobile* phone (i.e., GPS).

- If it is unknown if the device or object was brought into the vehicle or was original equipment on this vehicle, default to brought into vehicle and use attribute **10 (While Using or Reaching for Device/Object Brought Into Vehicle)**.

12 (Distracted by Outside Person, Object, or Event) is used when the driver was distracted by an outside person, object, or event prior to realization of impending danger. Examples include animals on the roadside, a previous crash, or non-traffic related signs (advertisements, electronic billboards, etc.). Do not use this attribute for a person, object, or event that the driver has recognized and for which the driver has taken some action (e.g., avoiding a pedestrian on the roadway).

13 (Eating or Drinking) is used when the driver is eating or drinking or involved in an activity related to these actions (picking food from carton placed on passenger seat, reaching to throw out used food wrapper, etc.).

14 (Smoking Related) is used when the driver is smoking or involved in an activity related to smoking, such as lighting a cigarette, putting ashes in the ash tray, *vaping*, etc. Any method of

lighting the cigarette would be coded **14 (Smoking Related)**. *Chewing tobacco related distractions are coded under **98 (Other Distraction [Specify:]).***

17 (Distraction/Inattention) is used **exclusively** when “Distraction/Inattention” or “Inattention/Distraction” are noted in the case materials as one combined attribute and it cannot be determined which DRIVER DISTRACTED BY attribute is intended, **92 (Distraction [Distracted], Details Unknown)** or **93 (Inattention [Inattentive], Details Unknown)**.

18 (Distraction/Careless) is used **exclusively** when “Distraction/Careless” or “Careless/Distraction” are noted in the case materials as one combined attribute and it cannot be determined which DRIVER DISTRACTED BY attribute applies.

19 (Careless/Inattentive) is used **exclusively** when “Careless/Inattentive” or “Inattentive/Careless” are noted in the case materials as one combined attribute and it cannot be determined which DRIVER DISTRACTED BY attribute applies.

92 (Distraction [Distracted], Details Unknown) is used when “distraction” or “distracted” are noted in the case materials, but specific distraction(s) cannot be identified. For non-specific “inattention” see attribute **93 (Inattention [Inattentive], Details Unknown)**.

93 (Inattention [Inattentive], Details Unknown) is used when “inattention” or “inattentive” are noted in the case materials, but it cannot be identified if this refers to a distraction(s).

97 (Lost in Thought / Day Dreaming) is used when the driver is not completely attentive to driving because he/she is thinking about items other than the driving task. For non-specific “distraction,” see **92 (Distraction [Distracted], Details Unknown)**. For non-specific “inattention,” see **93 (Inattention [Inattentive], Details Unknown)**.

98 (Other Distraction [Specify:])* is used when details regarding this driver’s distraction are known but none of the specified codes are applicable (*e.g., chewing tobacco related*).

**NOTE: For attributes with a “Specify:” designation, a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.*

99 (Reported as Unknown if Distracted) is used when the case materials specifically indicate unknown.

PC17A - Last Movement

Format

2 numeric

SAS Name

Vehicle.P_CRASH1

Element Values

Codes	Attributes
00	No Driver Present/Unknown if Driver Present
01	Going Straight
02	Decelerating
03	Accelerating
04	Starting
05	Stopped
06	Passing or Overtaking Another Vehicle
07	Disabled or "Parked"
08	Leaving A Parking Position With a Forward Motion
09	Entering A Parking Position With a Forward Motion
10	Leaving A Parking Position With A Rearward Motion
11	Entering A Parking Position With A Rearward Motion
12	Turning Right
13	Turning Left
14	Making a U-Turn
15	Backing Up [Other Than for Parking Position
98	Other (Specify:)
99	Unknown

Definition

This element identifies the attribute that best describes this vehicle's activity prior to the driver's realization of an impending danger or just prior to impact if the driver took no action or had no time to attempt any evasive maneuvers.

Remarks

Record the attribute that best describes this vehicle's activity **prior** to the driver's realization of an impending danger or just **prior** to impact if the driver took no action or had no time to attempt any evasive maneuvers.

Actions taken by the driver, of this vehicle, **after realization** of an impending danger are captured in [ATTEMPTED AVOIDANCE MANEUVER](#).

00 (No Driver Present/Unknown if Driver Present) is pre-coded for in-transport motor vehicles when the element [DRIVER PRESENCE](#) is coded as [0 \(No Driver Present/Not Applicable\)](#).

01 (Going Straight) is used when this vehicle's path of travel was straight ahead without any attempted or intended changes.

02 (Decelerating) is used when this vehicle was traveling straight ahead and was decelerating.

03 (Accelerating) is used when this vehicle was traveling straight ahead and was accelerating.

03 (Accelerating) must be explicitly stated by officer.

04 (Starting) is used when this vehicle was in the process of starting forward from a stopped position.

05 (Stopped) is used when this vehicle was stopped momentarily, with the motor running.

06 (Passing or Overtaking Another Vehicle) is used when this vehicle was traveling straight ahead and was in the process of passing or overtaking another vehicle on the left or right.

07 (Disabled or “Parked”) is used when this vehicle was “parked” with a driver present in the vehicle.

08 (Leaving A Parking Position With a Forward Motion) is used when this vehicle was leaving a parking position with its front end first.

09 (Entering A Parking Position With a Forward Motion) is used when this vehicle was entering a parking position with its front end first.

10 (Leaving A Parking Position With A Rearward Motion) is used when this vehicle was leaving a parking position with its rear end first.

11 (Entering A Parking Position With A Rearward Motion) is used when this vehicle was entering a parking position with its rear end first.

12 (Turning Right) is used when this vehicle was moving forward and turned right. *Excludes situations where the vehicle was entering or leaving a parking position.*

13 (Turning Left) is used when this vehicle was moving forward and turned left. *Excludes situations where the vehicle was entering or leaving a parking position.*

14 (Making a U-Turn) is used when this vehicle was making a U-turn.

15 (Backing Up [Other Than for Parking Position]) is used when this vehicle was *intentionally* traveling backwards. *Vehicles backing into or from a driveway are included in this attribute. If the backward movement is unintentional (e.g., the vehicle rolls or drifts backward) do not use this attribute (see [98 \(Other \[Specify:\]\)](#)).* Also, do not use this attribute if the vehicle was backing out of or into a parking space. (See [10 Leaving A Parking Position With A Rearward Motion](#) or [11 Entering A Parking Position With A Rearward Motion](#) respectively.)

98 (Other [Specify:]) is used when this vehicle's PRE-EVENT MOVEMENT is known but none of the specified attributes are applicable. An example would be a vehicle that unintentionally travels (e.g., rolls or drifts) backward. The movement must be specified in the “specify box.”

***NOTE:** For attributes with a “Specify:” designation, a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

99 (Unknown) is used when the vehicle’s movement prior to the driver’s realization of an impending critical event is unknown.

PC20 - Attempted Avoidance Maneuver

Format

2 numeric

SAS Name

Vehicle.P_CRASH3

Element Values

Codes	Attributes
00	No Driver Present / Unknown if Driver Present
01	No Avoidance Maneuver
05	Releasing Brakes
06	Steering Left
07	Steering Right
08	Braking and Steering Left
09	Braking and Steering Right
10	Accelerating
11	Accelerating and Steering Left
12	Accelerating and Steering Right
15	Braking and Unknown Steering Direction
16	Braking
98	Other Actions (Specify:)
99	Unknown/Not Reported

Definition

This element identifies movements/actions taken by the driver, after the driver has realization of an impending danger.

Remarks

Attempted avoidance maneuvers are movements/actions taken by the driver **after** the driver has realization of an impending danger. This element assesses what the driver's action(s) was in response to his/her realization.

This element may be used independently: (1) of any maneuvers associated with this driver's Crash Type, and (2) this vehicle's first associated crash event.

When there was a known action (e.g., braking), but you cannot determine whether there was more than one action (e.g., braking and steering left), default to the known action (e.g., braking).

00 (No Driver Present/Unknown if Driver Present) is pre-coded for in-transport motor vehicles when the element [DRIVER PRESENCE](#) is coded as [0 \(No Driver Present/Not Applicable\)](#).

01 (No Avoidance Maneuver) is selected whenever the driver did not attempt any evasive (pre-impact) maneuvers, i.e., the case materials indicate that there was no realization of danger or realization without time/ability to react or there is some indication on a field or within the narrative statements (supported by the diagram if present) that identifies no avoidance maneuver was attempted. **NOTE: This attribute should not be assessed solely by the diagram.**

16 (Braking) is used when there is indication that the brakes were applied.

98(Other Actions, [Specify:]) is used when the police crash report indicates the driver took certain avoidance actions, but none of the specified attributes apply. This value also applies when there are reported movements/actions taken by the driver with no information provided about the driver's specific actions. (e.g., "The driver of Vehicle 2 attempted to avoid the collision but was unsuccessful").

***NOTE: For attributes with a "Specify:" designation,** a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

98 (Unknown/Not Reported) is used when:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials); or
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials); or
3. Police indicate unknown.

NOTE: If a State's crash report manual instructs to leave data blocks blank when there is no avoidance maneuver, then a blank in those data blocks are NOT considered **99 (Unknown/Not Reported)**.

PC21 - Pre-Impact Stability

Format

1 numeric

SAS Name

Vehicle.PCRASH4

Element Values

Codes	Attributes
0	No Driver Present / Unknown if Driver Present
1	Tracking
2	Skidding Longitudinally Rotation Less Than 30 Degrees
3	Skidding Laterally Clockwise Rotation
4	Skidding Laterally Counter-Clockwise Rotation
5	Skidding Laterally, Rotation Direction Unknown
7	Other Vehicle Loss-of-Control (Specify:)
9	Precrash Stability Unknown

Definition

This element assesses the stability of the vehicle **after** the driver has realization of impending danger, but **before** the impact.

Remarks

The stability of the vehicle **prior** to an avoidance action is **not** considered except in the following situation:

- A vehicle that is out of control (e.g., yawing clockwise) prior to an avoidance maneuver is coded as [7 \(Other Vehicle Loss-of-Control \[Specify:\]\)](#) only if an avoidance action was taken in response to an impending danger.

Thus, this element focuses upon this vehicle's dynamics **after the** driver has realization of impending danger.

0 (No Driver Present/Unknown if Driver Present) is pre-coded for in-transport motor vehicles when the element [DRIVER PRESENCE](#) is coded as **0 (No Driver Present/Not Applicable)**.

1 (Tracking) is used when there is no brake lockup and the vehicle continued along its intended path without rotation. Stopped, slowing, turning, or accelerating to avoid a rear-end collision are examples. Only if the case materials include enough detail to determine all of the items below:

- No skid marks are present on the diagram or mentioned in the narrative,
- The case materials do not indicate skidding, AND
- The vehicle did not rotate 30° or more (either clockwise or counterclockwise).

Even when the officer does not specifically mention “skidding” or “braking,” narrative statements such as “the vehicle began to rotate,” “the back end slid out,” “the vehicle was sliding,” etc., are valid for selecting attributes 2-5.

2 (Skidding Longitudinally Rotation Less Than 30 degrees) is selected when there is brake lockup or whenever tire marks are apparent without brake lockup (braking or non-braking) and rotation is less than 30° clockwise or counterclockwise. If there is no information to support rotation greater than or equal to 30°, then use this attribute. Also use this attribute when there is indication in the case materials that the vehicle was not tracking (e.g., sliding) but tire marks are not present, (wet, ice, snow covered, etc.).

3 (Skidding Laterally Clockwise Rotation) is selected when the vehicle rotates clockwise, relative to the driver's seating position. The vehicle must rotate 30° or more. This attribute also applies when the driver attempts a steering input (e.g., steers right), but the vehicle rotates clockwise.

4 (Skidding Laterally Counter-Clockwise Rotation) is selected when the vehicle rotates counterclockwise, relative to the driver's seating position. The vehicle must rotate 30° or more. This attribute also applies when the driver attempts a steering input (e.g., swerves left), but the vehicle rotates counterclockwise.

5 (Skidding Laterally, Rotation Direction Unknown) is used when the vehicle rotates 30° or more but it cannot be determined from the case materials whether it was clockwise or counterclockwise rotation.

7 (Other Vehicle Loss-of-Control [Specify:]) is selected when a driver loses control of a vehicle prior to having realization of an impending danger.

***NOTE: For attributes with a “Specify:” designation,** a fill-in text box will open in MDE. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

9 (Precrash Stability Unknown) is selected when the stability of the vehicle cannot be determined. If the case materials do not provide enough information (in the diagram, narrative, etc.) to determine precrash stability, then code **9 (Precrash Stability Unknown)**.

Person Level (Motor Vehicle Occupant) Data Elements

[P3 - Vehicle Number – Person Level \(MV Occupant\)](#)

[P4/NM3 - Person Number](#)

[P5/NM5 - Age](#)

[P6/NM6 - Sex](#)

[P7 - Person Type](#)

[P8/NM8 - Injury Severity](#)

[P9 - Seating Position](#)

P3 - Vehicle Number – Person Level (Motor Vehicle Occupant)

Format

3 numeric

SAS Name

Vehicle.VEH_NO, Person.VEH_NO, Parkwork.VEH_NO

Element Values

001-999

Definition

This element identifies the vehicle number associated with this motor vehicle occupant.

Remarks

001-999 is used for motor vehicle occupants (In-Transport, Parked/Stopped Off Roadway/Working Motor Vehicles, and Motor Vehicles in Motion Outside the Trafficway).

People ejected or who fall from a motor vehicle in-transport are still considered occupants of that vehicle for the duration of the unstabilized situation.

P4/NM3 - Person Number**Format**

3 numeric

SAS Name

Person.PER_NO

Element Values

Codes	Attributes
001-999	Assigned Number/ Computer Assigned

Definition

This element identifies a number for the motor vehicle occupant in consecutive order for the vehicle they occupied.

Remarks

Person Number is assigned using the police crash report's person number.

Person Level (Motor Vehicle Occupant) must be numbered consecutively beginning with "001" for each motor vehicle occupant. Drivers do not have to be "001." Numbers must not be skipped.

Person Level (Not a Motor Vehicle Occupant) must be numbered consecutively beginning with "001" for people not in motor vehicles. Numbers must not be skipped.

P5/NM5 - Age

Format

3 numeric

SAS Name

Person.AGE

Element Values

Codes	Attributes
000	Less than One Year
001-120	Actual Age*
998	Not Reported
999	Reported as Unknown

Definition

This element identifies the person's age, in years, with respect to the person's last birthday.

Remarks

If the case materials do not show the age of injured or uninjured drivers or passengers and there is no other information about age, e.g., in the narrative/diagram, then use **998 (Not Reported)**.

998 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **998 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

999 (Reported as Unknown) is used if the investigating officer indicates that this occupant's age is unknown.

*Values greater than "094" are unlikely occurrences, and they will raise an error flag.

*Values greater than "120" are not permitted.

P6/NM6 - Sex**Format**

1 numeric

SAS Name

Person.SEX

Element Values

Codes	Attributes
1	Male
2	Female
8	Not Reported
9	Reported as Unknown

Definition

This element identifies the sex of the person involved in the crash.

Remarks

If the case materials do not show the sex of injured or uninjured drivers or passengers and there is no other information about sex, e.g., in the narrative/diagram, then use **8 (Not Reported)**.

8 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

9 (Reported as Unknown) is used if the investigating officer indicates that this occupant's sex is unknown.

P7 - Person Type

Format

2 numeric

SAS Name

Person.PER_TYP

Element Values

Codes	Attributes
01	Driver of a Motor Vehicle In-Transport
02	Passenger of a Motor Vehicle In-Transport
03	Occupant of a Motor Vehicle Not In-Transport
09	Unknown Occupant Type in a Motor Vehicle In-Transport

Definition

This element describes the role of this person involved in the crash.

Remarks

Drivers and passengers are motor vehicle occupants. An involved person in a crash must maintain PERSON TYPE during the crash. Once the unstabilized situation begins, a driver, passenger, or non-motorist/non- occupant cannot change PERSON TYPE until the situation stabilizes. *A motor vehicle occupant is any person who is part of a motor vehicle (i.e., in it, on it, or attached to it).*

If a person is entering or exiting a vehicle before the unstabilized situation begins, try to determine if the person has successfully changed type before control is lost. *For example, a person attempting to get into an automobile that begins to move would be classified as a pedestrian. Likewise, a passenger stepping off of a bus as it begins to pull away would be classified as an occupant.*

Attributes 01, 02, and 09 are used for occupants of motor vehicles that are in motion outside the trafficway.

01 (Driver of a Motor Vehicle In-Transport) is used for a person who is in actual physical control of a motor vehicle or in the case of an out-of-control vehicle the person that was in control just prior to the unstabilized situation.

In NTS, people less than 12 years old will raise an edit check. People less than 8 years old are forbidden from operating motor vehicles except for BODY TYPES [88](#), [90](#), [91](#). In these circumstances the vehicles are classified as [0 \(No Driver Present/Not Applicable\)](#) in the element [DRIVER PRESENCE](#) and any underage occupant seated in the driver's position on the crash report is coded as PERSON TYPE [2 \(Passenger of a Motor Vehicle In- Transport\)](#) with [SEATING POSITION](#) value [11 \(Front Seat, Left Side\)](#). People who are less than 2 years old are forbidden in NTS from being a driver of any motor vehicle.

02 (Passenger of a Motor Vehicle In-Transport) is used for any occupant of a motor vehicle in-transport other than the driver.

If this person was appended to a motor vehicle for motion (“skitching”²) at the onset of the unstabilized situation, also use SEATING POSITION code [56 \(Appended to a Motor Vehicle for Motion\)](#). The person may be appended to the vehicle by any means (hand grasp, tow rope etc.), and may also be using a non-motorist device such as a bicycle, skateboard, hoverboard, or sled at the onset of the unstabilized situation. It must be clear that the person was connected at the onset of the unstabilized situation.

03 (Occupant of a Motor Vehicle Not In-Transport) is used for any occupant of a motor vehicle not in-transport including someone sitting in the driver’s seat position.

09 (Unknown Occupant Type in a Motor Vehicle In-Transport) is used when it cannot be determined if the person was the driver or passenger, but it is known that the person was an occupant of a motor vehicle in-transport.

² Abbreviated from “skate-hitching,” the act of hitching a ride by holding onto a motor vehicle while riding on a skateboard, roller skates or bicycle.

P8/NM8 - Injury Severity

Format

1 numeric

SAS Name

Person.INJ_SEV

Element Values

Codes	Attributes
0	No Apparent Injury (O)
1	Possible Injury (C)
2	Suspected Minor Injury (B)
3	Suspected Serious Injury (A)
4	Fatal Injury (K)
5	Injured, Severity Unknown
6	Died Prior to Crash*
9	Unknown/Not Reported

Definition

This element describes the severity of the injury to this person in the crash.

Remarks

Enter the most severe police reported injury severity for this person (i.e., occupant, pedestrian or non-motorist). Most jurisdictions use the KABCO injury coding scheme.

K = Fatal Injury (Killed)

A = Suspected Serious Injury (Incapacitating Injury)

B = Suspected Minor Injury (Non-incapacitating Injury)

C = Possible Injury

O = No Apparent Injury (No Injury)

If there are discrepancies between the injury severity reported in the police report fields and the narrative, use the following guidance.

Report Field	Narrative	Guidance
Contains Coded Response	No Conflict With Coded Report Field	USE CODED REPORT FIELD
Not Coded	Silent on injuries	INJURY SEVERITY, 9 (Unknown/Not Reported)
Contains Coded Response	Silent on injuries	USE CODED REPORT FIELD

Report Field	Narrative	Guidance
Contains Coded Response	Includes clear descriptions of injuries more severe than Coded Response	USE NARRATIVE
Not Coded	Includes some injury information. Unknown if information is complete.	USE NARRATIVE
Contains Coded Response	Includes clear descriptions only of injuries less severe than Coded Response. Unknown if information is complete.	USE CODED REPORT FIELD

0 (No Apparent Injury) is a situation where there is no reason to believe that the person received any bodily harm from the motor vehicle crash. There is no physical evidence of injury and the person does not report any change in normal function.

1 (Possible Injury) is any injury reported or claimed that is not a fatal injury, suspected serious injury, or suspected minor injury. Examples include momentary loss of consciousness, possible concussion, claim of injury limping, complaint of pain, or nausea. Possible injuries are those that are reported by the person or are indicated by his/her behavior, but no wounds or injuries are readily evident.

2 (Suspected Minor Injury) is any injury that is evident at the scene of the crash, other than fatal or serious injuries. Examples include lump on the head, abrasions, bruises, minor lacerations (cuts on the skin surface with minimal bleeding and no exposure of deeper tissue/muscle). This does not include momentary unconsciousness. (See [1 \(Possible Injury\)](#)).

3 (Suspected Serious Injury) is any injury other than fatal that results in one or more of the following:

- Severe laceration resulting in exposure of underlying tissues/muscle/organs or resulting in significant loss of blood
- Broken or distorted extremity (arm or leg)
- Crush injuries
- Suspected skull, chest, or abdominal injury other than bruises or minor lacerations
- Significant burns (second and third degree burns over 10 percent or more of the body)
- Unconsciousness when taken from the crash scene
- Paralysis

This does not include limping (the injury cannot be seen). (See [1 \(Possible Injury\)](#)).

4 (Fatal Injury) A fatal injury is any injury that results in death within 30 days after the motor vehicle crash in which the injury occurred. If the person did not die at the scene but died within 30 days of the motor vehicle crash in which the injury occurred, the injury classification should be changed from the attribute previously assigned to the attribute **4 (Fatal Injury)**.

5 (Injured, Severity Unknown) It is known the person was injured but the severity of the injury is not known.

6 (Died Prior to Crash)* refers to non-motor vehicle fatalities (e.g., a heart attack victim, a homicide victim, a suicide, or person involved in a legal intervention) that are involved in a motor vehicle traffic crash.

This attribute is used only if the police explicitly states the person died prior to the crash and the police report indicates the person died as a result of natural causes (e.g., heart attack), disease, drug overdose or alcohol poisoning, suicide, homicide, and legal intervention.

This attribute also applies if the police report indicates that the person died as a result of natural causes (e.g., heart attack) or disease but is silent about the time of on-set or if on-set is the result of injuries sustained in the crash.

In suicide incidents, use the following criteria:

1. If the only fatality is the suicide victim and it can be ascertained that the crash was a suicide, do not code the case.
2. If other fatalities occur, code the case as appropriate. The suicide victim's Injury Severity should be coded **6 (Died Prior to Crash)** if the death occurred at the time of the crash (or prior) or **0 (No Apparent Injury)** if the death occurred after the crash.

This attribute does not apply if the police report specifically states that the cause of death is a result of crash-related injury or that on-set occurred after the crash.

* This value is an unlikely occurrence and will raise an edit flag.

9 (Unknown/Not Reported) is used when:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials); or
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials); or
3. Police indicate unknown.

NOTE: If a State's crash report manual instructs to leave data blocks blank when there is no injury, then a blank in those data blocks are NOT considered **9 (Unknown/Not Reported)**.

P9 - Seating Position

Format

2 numeric

SAS Name

Person.SEAT_POS

Element Values

Codes	Attributes
11	Front Seat, Left Side
12	Front Seat, Middle
13	Front Seat, Right Side
18	Front Seat, Other
19	Front Seat, Unknown
21	Second Seat, Left Side
22	Second Seat, Middle
23	Second Seat, Right Side
28	Second Seat, Other
29	Second Seat, Unknown
31	Third Seat, Left Side
32	Third Seat, Middle
33	Third Seat, Right Side
38	Third Seat, Other
39	Third Seat, Unknown
41	Fourth Seat, Left Side
42	Fourth Seat, Middle
43	Fourth Seat, Right Side
48	Fourth Seat, Other
49	Fourth Seat, Unknown
50	Sleeper Section of Cab (Truck)
51	Other Passenger in enclosed passenger or cargo area
52	Other Passenger in unenclosed passenger or cargo area
53	Other Passenger in passenger or cargo area, unknown whether or not enclosed
54	Trailing Unit
55	Riding on Exterior of Vehicle
56	Appended to a Motor Vehicle for Motion
98	Not Reported
99	Reported as Unknown

Definition

This element identifies the location of this person in or on the vehicle.

Remarks

Seating Position is determined by the location of the occupant in relation to the seat row and the forward longitudinal axis of the vehicle. (See [Figure 6](#))

More than one person may be assigned the same seating position; however, this is allowed only when a person is sitting on someone's lap (e.g., child on mother's lap).

If the case materials do not specifically state that one person was on the lap of another, then see the discussion and tables below to address these situations.

In seating rows designated for only two passengers, use 11 (Front Seat, Left Side), 13 (Front Seat, Right Side), 21 (Second Seat, Left Side), 23 (Second Seat, Right Side), 31 (Third Seat, Left Side), 33 (Third Seat, Right Side), 41 (Fourth Seat, Left Side), 43 (Fourth Seat, Right Side), or 51 (Other Passenger in enclosed passenger or cargo area).

11 (Front Seat, Left Side) is typically thought of as the driver seating position. This is also used for an assumed driver of a hit-and-run vehicle unless evidence indicates a different position for the person or people. [Note: For motorcycle occupants, see passage below.](#)

18 (Front Seat, Other), 28 (Second Seat, Other), 38 (Third Seat, Other), and 48 (Fourth Seat, Other) are used to record the position of someone sitting on the floor or lying across the seat. In addition, enter these attributes when two or more people are sitting abreast of one another in the same seating location (as opposed to on or in someone's lap), since only one occupant can be assigned the seat's position. These attributes are also used if there is only one seat in the seating row (bucket, pedestal, etc.), and the occupant was in the area but not in the seat. This situation could occur because of vehicle design or seat removal.

19 (Front Seat, Unknown), 29 (Second Seat, Unknown), 39 (Third Seat, Unknown), and 49 (Fourth Seat, Unknown) are used to record the position of someone when the seating row is known, but the seat position is not known and **18 (Front Seat, Other), 28 (Second Seat, Other), 38 (Third Seat, Other), and 48 (Fourth Seat, Other)** do not apply. The tables below provide coding guidance for situations when more than one person is reported as occupying the same seat position. Note that if the report identifies that one person is sitting in another's lap (e.g., child on mother's lap) both occupants may be assigned the same seat position.

Several People in Front Left (Driver's Seat)

Situation: You know who the driver is; however, it is unknown if other person is seated side-by-side with driver or on the driver's lap:

Person	Seating Position
The Driver	Front, Left (11)
Other Person	Front, Unknown (19)

Situation: You don't know who the driver is, and it is unknown if side-by-side or on another's lap:

Person	Seating Position
Unknown	Front, Unknown (19)

Person	Seating Position
Unknown	Front, Unknown (19)

Several People in Other Seats

Situation: If you know one is in another's lap – Both get same Seating Position.

Situation: If you don't know if they are sitting side-by-side or in another's lap – Both get that row, unknown.

Situation: If you know they are sitting side-by-side and only one had a restraint:

Person	Seating Position
Person with restraint	As indicated
Other Person	That row, other

Situation: If you know they are sitting side-by-side and both had restraints:

Person	Seating Position
Oldest Person	As indicated
Other Person	That row, other

Situation: If you know they are sitting side-by-side and neither had restraints:

Person	Seating Position
Oldest Person	As indicated
Other Person	That row, other

50 (Sleeper Section of Cab [Truck]) is used if the occupant's vehicle is a medium or heavy truck and has a cab sleeper, and this occupant is in the sleeper section at the time of the crash.

51 (Other Passenger in Enclosed Passenger or Cargo Area) is used when an occupant is in the fifth or higher numbered seat row, in an enclosed area where no defined seating exists or using a fold-down type seat in its folded-down position. This attribute is also used for bus passengers in undetermined seating (not driver) and for bus occupants that fall from an open door.

NOTE: People in treatment compartment of an ambulance, code as **51 (Other Passenger in Enclosed Passenger or Cargo Area)**. (See examples under RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL attribute [92 \(Person in Ambulance Treatment Compartment\)](#).)

52 (Other Passenger in Unenclosed Passenger or Cargo Area) is used when an occupant is in the fifth or higher numbered seat row, in an unenclosed area where no defined seating exists or using a fold-down type seat in its folded-down position. Examples include passenger riding in an open pickup bed, top of open double-decker bus, etc.

If seating in the vehicle is longitudinal rather than lateral, use the basic idea of a vehicle interior being divided laterally into roughly equal thirds and visualize lateral rows of seats to determine what seat position is the best descriptor.

For rearward facing seats, use the basic idea described in the previous paragraph to describe the occupant's seat position.

If a seat row has more than three designated seat positions, the occupants should have their positions assigned as usual for the left and right positions, while the two center positions would be entered as Other (i.e., **18 (Front Seat, Other)**, **28 (Second Seat, Other)**, **38 (Third Seat, Other)**, **48 (Fourth Seat, Other)**, or **51 (Other Passenger in Enclosed Passenger or Cargo Area)**) depending upon the seat row.

Guidance for Body Type 80-90

For **BODY TYPE 80-90** (e.g., Motorcycles, ATV/ATC) enter the driver as **11 (Front Seat, Left Side)**; sidecar passengers as **13 (Front Seat, Right Side)**; any seated passengers behind the driver as **21 (Second Seat, Left Side)**, and a passenger on the lap of the driver (in front of) as **11 (Front Seat, Left Side)**. **55 (Riding on Exterior of Vehicle)** is applicable to a motorcycle or ATC occupant riding on the fenders or handlebars.

54 (Trailing Unit) is used when an occupant is in or on a trailing unit (i.e., [VEHICLE TRAILING](#), for this occupant's vehicle must be coded ≥ 1 , one or more trailing units).

55 (Riding on Exterior of Vehicle) is used when an occupant is riding on a fender, the boot of a convertible, etc.

56 (Appended to a Motor Vehicle for Motion) is used when this person is appended to the motor vehicle at the onset of the unstabilized situation (e.g., "skitching"). The person may be appended by any means (hand grasp, tow rope, etc.), and could be using a non-motorist device (bicycle, skateboard, hoverboard, sled, etc.) at, and during, the time they appended to the Motor Vehicle for the purpose of motion. It must be clear that they were appended at the onset of the unstabilized situation. This code excludes people riding on the roof, trunk, hood, tailgate, etc., that should be coded as **SEATING POSITION [55 \(Riding on Exterior of Vehicle\)](#)**.

If the case materials do not show the seating row of a passenger and there is no other information about seating position, (e.g., in the narrative/diagram), then use **98 (Not Reported)**.

98 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."

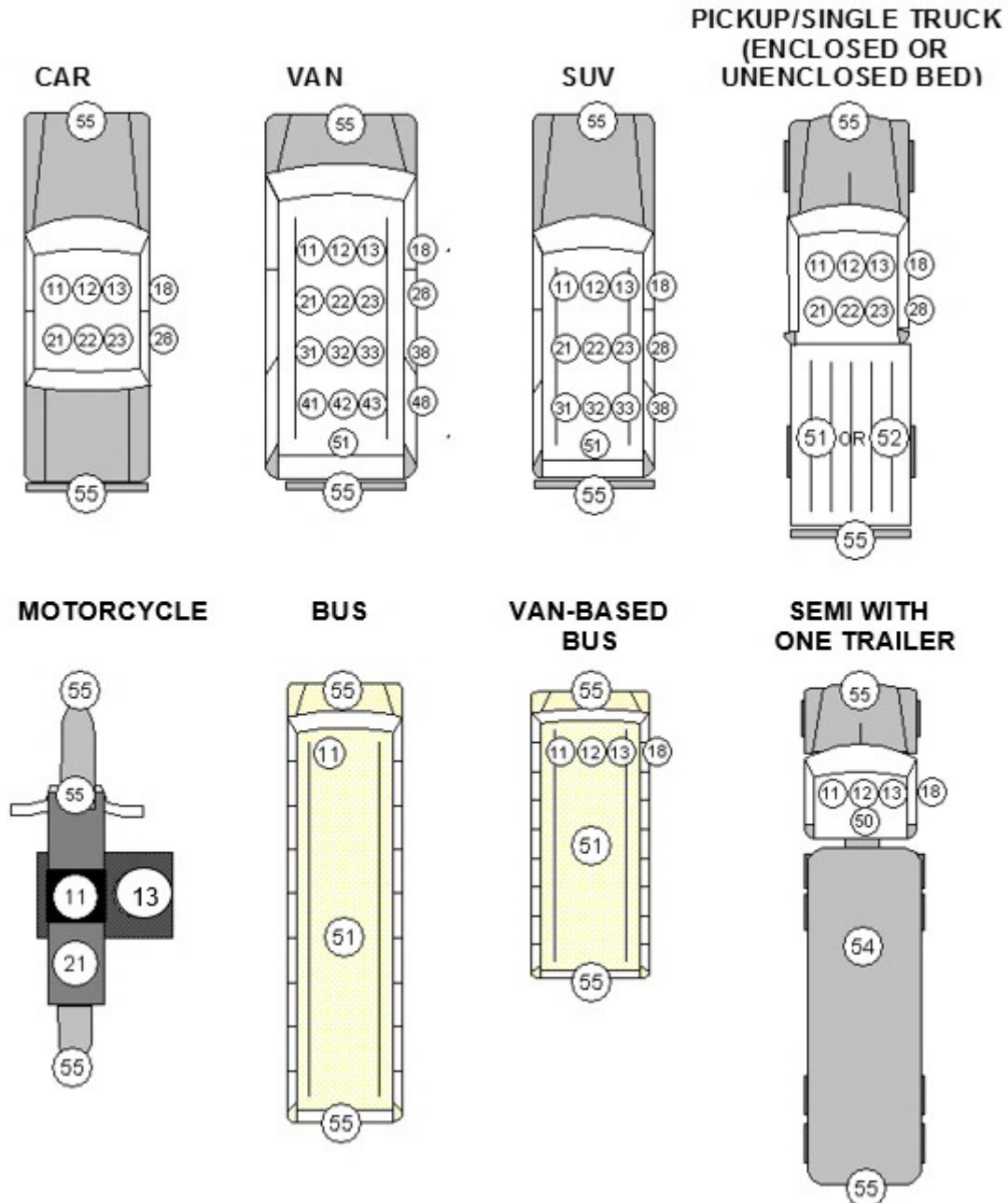
Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been

selected on the State’s crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

99 (Reported as Unknown) is used if the investigating officer indicates that this occupant’s seating position is unknown.

Figure 6. Seating Positions for Different Vehicle Configurations



* For van-based buses with a BODY TYPE 21 (Large Van), use the actual seating position if known, or use code “51” for the 2nd, 3rd & 4th rows, if actual seating position is not known.

Person Level (Not A Motor Vehicle Occupant) Data Elements

[NM3/P4 - Person Number](#)

[NM4 - Vehicle Number of Motor Vehicle Striking Non-Motorist](#)

[NM5/P5 - Age](#)

[NM6/P6 - Sex](#)

[NM7 - Person Type](#)

[NM8/P8 - Injury Severity](#)

[NM10 - Non-Motorist Location at Time of Crash](#)

[NM27 - Pedestrian Motion](#)

[NM28 - Pedestrian Posture](#)

NM3/P4 - Person Number**Format**

3 numeric

SAS Name

Person.PER_NO

Element Values

Codes	Attributes
001-999	Assigned Number

Definition

This element identifies a number for people that are not in a motor vehicle in consecutive order.

Remarks

This element's values and remarks are identical to the Person Level (MV Occupant) Level element PERSON NUMBER. Please see [PERSON NUMBER](#) for remarks.

NM4 - Vehicle Number of Motor Vehicle Striking Non-Motorist**Format**

3 numeric

SAS Name

Person.STR_VEH

Element Values

Codes	Attributes
001-998	Assigned Vehicle Number

Definition

This data element captures the in-transport vehicle that made contact with this non-motorist.

Remarks

This only applies to those non-motorists who are not occupants of a motor vehicle. If a non-motorist is contacted by a parked or working motor vehicle that was propelled by an in-transport vehicle, record the vehicle number of the in-transport vehicle.

In cases where more than one vehicle makes contact with a non-occupant, code the number of the vehicle that caused the most significant injury. If uncertain, code the number of the vehicle that made contact first.

If a non-motorist is hit as a result of a vehicle-to-vehicle collision and you cannot reasonably determine which vehicle struck the non-motorist, use the lowest vehicle number of the MVIT(s) involved in the vehicle-to-vehicle event that resulted in the pedestrian or pedalcyclist collision.

NM5/P5 - Age**Format**

3 numeric

SAS Name

Person.AGE

Element Values

Codes	Attributes
--	Blank
000	Less than One Year
001-120	Actual Age*
998	Not Reported
999	Reported as Unknown

Definition

This element identifies the person's age, in years, with respect to the person's last birthday.

Remarks

This element's values and remarks are identical to the Person Level (MV Occupant) Level element AGE. Please see [AGE](#) for remarks.

NM6/P6 - Sex**Format**

1 numeric

SAS Name

Person.SEX

Element Values

Codes	Attributes
1	Male
2	Female
8	Not Reported
9	Reported as Unknown

Definition

This element identifies the sex of the person involved in the crash.

Remarks

This element's values and remarks are identical to the Person Level (MV Occupant) Level element SEX. Please see [SEX](#) for remarks.

NM7 - Person Type

Format

2 numeric

SAS Name

Person.PER_TYP

Element Values

Codes	Attributes
04	Occupant of a Non-Motor Vehicle Transport Device
05	Pedestrian
06	Bicyclist
07	Other Cyclist
10	Persons In/On Buildings
19	Unknown Type of Non-Motorist
11	Person on Personal Conveyances
20	Skates
21	Skateboards
22	Baby Carriage
23	Scooters
24	Toy Wagons
25	Motorized toy car
26	Two wheeled self-balancing personal transportation device
27	Motorized and non-motorized wheelchairs
28	Handicapped scooters

Definition

This element describes the role of this person involved in the crash.

Remarks

An involved person in a crash must maintain PERSON TYPE during the crash. Once the unstabilized situation begins, a driver, passenger, or non-motorist/non-occupant cannot change PERSON TYPE until the situation stabilizes.

If a person is entering or exiting a vehicle before the unstabilized situation begins, try to determine if the person has successfully changed type before control is lost. For example, a person attempting to get into an automobile that begins to move would be classified as a pedestrian. Likewise, a passenger stepping off of a bus as it begins to pull away would be classified as an occupant.

04 (Occupant of a Non-Motor Vehicle Transport Device) refers to people riding in an animal-drawn conveyance, on an animal, or injured occupants of railway trains, etc.

05 (Pedestrian) is used for all pedestrians except for those in/on personal conveyances (see [08 \(Persons on Personal Conveyances\)](#) below) and in buildings (see [10 \(Persons In/On Buildings\)](#) below). A person pushing a vehicle or being carried by a pedestrian should be coded **05 (Pedestrian)**.

06 (Bicyclist) is used for a two-wheel, non-motorized cycle. This includes all people (operator and passengers) on a bicycle and a person being pulled by a bicycle (e.g., in a wagon or bike trailer).

07 (Other Cyclist) is used for unicycles and tricycles.

10 (Persons In/On Buildings) is used for a person inside of or on a building who is struck by a motor vehicle directly or by way of an object set in motion (e.g., crash debris as a vehicle penetrates a wall). **10 (Persons In/On Buildings)** takes precedence over attributes “05-07.”

19 (Unknown Type of Non-Motorist) is used only when it cannot be determined which attribute is applicable for people not in motor vehicles.

Person on Personal Conveyances:

A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

20 (Skates) is used when the person is using any type of skates. This includes roller skates that are attached to existing shoes or skates that come with their own shoes. The number of wheels on the skates does not matter.

21 (Skateboards) is used when the person is on any type of purchased or homemade skateboard. A person rests on a skateboard while a person on skates is physically attached to the skates. The skateboards can be motorized or non-motorized.

22 (Baby Carriage) is used when the person is in a baby carriage. Included in this category are baby strollers.

23 (Scooters) is used when the person is using a scooter. This includes human powered and motor-powered devices similar to the Razor®. These devices have a platform close to the ground for the non-motorist to stand and a raised handle for the hands.

24 (Toy Wagons) is used when the person is in a toy wagon. The wagon may be pulled by another non-motorist or may be self-propelled.

25 (Motorized toy car) is used when the person is using a Motorized toy car. Note that a pedal operated car or device is considered an “Other Cyclist” and should be coded there.

26 (Two wheeled self-balancing personal transportation device) is used when the person is using a two wheeled self-balancing personal transportation device (Segway® or similar).

27 (Motorized and non-motorized wheelchairs) is used when the person is using a wheelchair.

28 (Handicapped scooters) is used when the person is using a scooter that is primarily designed to transport handicapped people.

NM8/P8 - Injury Severity**Format**

1 numeric

SAS Name

Person.INJ_SEV

Element Values

Codes	Attributes
0	No Apparent Injury (O)
1	Possible Injury (C)
2	Suspected Minor Injury (B)
3	Suspected Serious Injury (A)
4	Fatal Injury (K)
5	Injured, Severity Unknown
6	Died Prior to Crash*
9	Unknown/Not Reported

Definition

This element describes the severity of the injury to this person in the crash.

Remarks

This element's values and remarks are identical to the Person Level (MV Occupant) Level element INJURY SEVERITY. Please see [INJURY SEVERITY](#) for remarks.

NM10 - Non-Motorist Location at Time of Crash

Format

2 numeric

SAS Name

Person.LOCATION

Element Values

Codes	Attributes
01	Residential Driveway
02	Residential Garage
03	Residential Parking Lot
04	Other Residential Area
05	Commercial Driveway
06	Commercial Parking Lot
07	Other Commercial Area
08	Parking Garage Structure residential or commercial
10	Other Parking Lot [incl. all parking lots of unknown type]
11	Other Private Road [to incl. alleys that are not trafficways]
12	Other Developed Area
13	Undeveloped Area
14	Other structure [not parking garage structure]
15	Railway
16	Unknown Driveway Type
98	Not Reported
99	Reported as Unknown Location

Definition

This element identifies the location of the non-motorist with respect to the crash.

Remarks

01(Residential Driveway) refers to a private road giving access from a trafficway to a building used as a private residence or home for one or more families.

02 (Residential Garage) refers to the enclosed portion of a private residence or home for sheltering motor vehicles. A Residential Garage may be a separate structure.

03 (Residential Parking Lot) refers to open areas used primarily for parking road vehicles and providing access to multiple residences.

04 (Other Residential Area) refers to areas around a house or private residence that are not commonly used for the operation of motor vehicles.

05 (Commercial Driveway) is a private road giving access from a trafficway to a building used for non-residential purposes. This includes business enterprises, libraries, schools, hospitals, playgrounds, etc.

06 (Commercial Parking Lot) is the area used primarily for parking road vehicles and providing access to commercial buildings such as shopping malls, grocery stores, department and discount stores, and restaurants.

07 (Other Commercial Area) include areas surrounding commercial buildings that are not primarily used for parking vehicles. Included are gas stations fuel pumps, car washes, and physically separated drive through areas for fast food, banks, loading docks, and similar.

08 (Parking Garage Structure residential or commercial) is a structure designed for the sheltering, storage, or parking of motor vehicles. This includes commercial parking garages and apartment building parking garages.

10 (Other Parking Lot [incl. all parking lots of unknown type]) refers to a parking lot designed for employee, industrial, institutional, educational, and recreational purposes. This element also includes all parking lots of unknown type.

11 (Other Private Road [to incl. alleys that are not trafficways]) is a private road that is not a driveway or a parking lot. Examples include roads on military bases or in gated communities with restricted access and private roads in oil fields, on farms, and on ranches.

12 (Other Developed Area) includes industrial areas, construction areas, and institutional areas that are not commonly used for the operation of motor vehicles. Also included are areas that are clearly not residential or commercial such as playgrounds.

13 (Undeveloped Area) includes all other areas not commonly used for the operation of motor vehicles such as farmland and open fields.

14 (Other structure [not parking garage structure]) is used when the non-motorist is in a roofed and walled structure built for permanent use that is struck during the crash. The type of construction material used is not of interest. Note that this does not include parking garages.

15 (Railway) is a private way reserved primarily for vehicles that operate on rails.

16 (Unknown Driveway Type) is a driveway that cannot be identified as residential or commercial.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **28 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in NTS.
2. Code **98 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in NTS.

98 (Not Reported)

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered “**Not Reported.**”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case materials).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any NTS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case materials).

99 (Reported as Unknown Location) is used when the case materials state that the location of the non-motorist was unknown at the time of the crash.

NM27 - Pedestrian Motion

Format

1 numeric.

SAS Name

Person.PEDMOTN

Element Values

Codes	Attributes
01	Not moving
02	Walking
03	Running
04	Skipping/Hopping/Jumping
05	Falling/Stumbling/Rising
07	Not a pedestrian
08	Other
09	Unknown type of pedestrian motion

Definition

This element is used to describe the motion of pedestrians.

Remarks

01 (Not moving) is used when the pedestrian is stationary and includes crouching, kneeling, and bending at the waist.

02 (Walking) is used when the pedestrian is advancing on foot in such a manner that part of one foot or the other is always in contact with the ground.

03 (Running) is used when the pedestrian is moving rapidly in a manner where both feet are off the ground for a portion of each step. This includes jogging.

04 (Skipping/Hopping/Jumping) is used when the pedestrian is moving in light springy steps, alternating a hop between steps while walking (skipping), is moving by making short leaps on one or both feet (hopping), or is springing or propelling from the ground in generally an upward motion (jumping).

05 (Falling/Stumbling/Rising) is used in two circumstances to describe a pedestrian who is moving, but who is also not engaged in a controlled motion. Falling/stumbling refers to situations where the pedestrian's control of his/her motion is interrupted such that balance is lost and the pedestrian is no longer in an upright posture. Rising refers to situations where the pedestrian was previously not in an upright posture and was engaged in the act of attaining an upright standing posture.

07 (Not a pedestrian) is used when P03 Person Type (Non-Motorists) DOES NOT EQUAL Pedestrian. Choose Not a pedestrian when P03 Person Type equals Unknown Type of Non-Motorist.

08 (Other) is used when either the pedestrian's motion does not fit the above choices.

09 (Unknown type of pedestrian motion) is used when the motion of the pedestrian is not known.

NM28 - Pedestrian Posture

Format

1 numeric.

SAS Name

Person.PEDPOST

Element Values

Codes	Attributes
01	Standing
02	Bending at waist
03	Sitting
04	Crouching/Kneeling
07	Not a pedestrian
08	Other
09	Unknown

Definition

This element is used to describe the posture of pedestrians.

Remarks

1 (Standing) is used when the pedestrian is upright on both feet. This category includes pedestrians who are leaning to one side or are leaning against an object. It includes pedestrians who are walking, running, hopping, skipping, or jumping. It also includes pedestrians who are falling, stumbling, or rising.

2 (Bending at waist) is used when the pedestrian is bending over using the hips as the pivot point.

3 (Sitting) is used when the pedestrian is sitting on the ground or other fixed object.

4 (Crouching/Kneeling) is used when the pedestrian is stooped down or bent low by using the knees as a pivot point or at least one knee of the pedestrian is in contact with the ground or a fixed object.

7 (Not a pedestrian) is used when P03 **Person Type** (Non-Motorists) DOES NOT EQUAL **Pedestrian**. Choose **Not a pedestrian** when P03 **Person Type** equals **Unknown Type of Non-Motorist**.

8 (Other) is used when the pedestrian's posture does not fit the above choices.

9 (Unknown) is used when the posture of the pedestrian is not known.

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