R-345U

BUS TRIP RELIABILITY EQUIPMENT LISTS TASK B REPORT

Prepared by:

DYNAMICS RESEARCH CORPORATION
Systems Division
60 Concord Street
Wilmington, Massachusetts 01887

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Prepared for:

U.S. DEPARTMENT OF TRANSPORTATION
Transportation Systems Center
Kendall Square
Cambridge, Massachusetts 02142

PREFACE

This report describes Task B of the contract to "Develop the Groundwork and Prepare the Backup Information Necessary for the Establishment of a BUS TRIP Data Bank," (herein after referred to as BUS TRIP). The purpose of Task B was to establish bus equipment reliability lists and identify priority components and subsystems that BUS TRIP should monitor. This task was performed under Contract Number DTRS-57-80-C-00007 from the U.S. Department of Transportation, Transportation Systems Center (TSC) which was awarded to DRC in December 1979.

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SECTION 1 - EXECUTIVE SUMMARY

BUS TRIP (Transit Reliability Information Program) is a Government sponsored response to an acknowledged need to collect, analyze, and disseminate bus equipment reliability information on a national basis. It is a parallel extension to rapid rail vehicle (RRV) TRIP and is designed to use the present TRIP structure and experience in collecting and processing data.

This report describes the purpose, approach, development, coding, and conclusions of Task B, "Establish Bus Equipment Reliability Lists" of the BUS TRIP contract. The effort here represents the development of source material into equipment lists representing the five most prominent bus models that are or will be found in use throughout the USA. From these lists, a master generic parts list representing a comprehensive list of all the components contained in these buses has been generated.

Consistent with the above development are the two objectives of Task B. First, to identify bus transit equipment to be monitored in the data bank and second, to establish a uniform component identification system, coded to accommodate various bus models.

The results of this task are as follows:

- Generic Part Number (GPN) a 12-character code used as an identification for components from different bus models which perform similar functions.
- Generic Serial Number (GSN) a seven-character code which identifies the transit property, vehicle type, and car number and is used in conjunction with the GPN.
- Generic Parts List (GPL) a list of all generic part numbers (GPN) identified with a specific generic serial number, along with associated manufacturer's and property part identification.
- Master Generic Parts List (MGPL) a list of all unique generic part numbers obtained from combining all of the generic parts lists.

With the development of the equipment lists, we may conclude that these lists are complex and varied in form. To properly assess this equipment requires additional information so that each system or component may be

evaluated objectively. This information calls for specifications, functional descriptions, engineering drawings, and schematics all of which will serve to enhance any equipment evaluation and make a bus vehicle data bank more productive.

SECTION 2 - INTRODUCTION

TRIP (Transit Reliability Information Program) is a Government initiated program designed to assist the transit industry in satisfying its needs for rapid rail transit reliability information. An extension of this effort was an award in December 1979 of a Bus TRIP contract to develop the groundwork and prepare the backup information necessary for the establishment of a Bus TRIP data bank. This effort runs parallel to the TRIP program and is designed to use the present TRIP structure and experience in collecting and processing data. Bus TRIP will also be developed similar to TRIP and will use the same data bank configuration and general equipment breakdown where possible.

2.1 - PURPOSE

Consistent with the development of a data bank was the requirement for a standard equipment list which was identified in the contract as a separate and distinct task (Task B). As part of the Bus TRIP contract, Task B, "Establish Bus Equipment Reliability Lists," had two main objectives. The first objective was to identify bus transit equipment to be monitored in the data bank, and the second

objective was to establish a uniform component identification system, coded to accommodate various bus models and specific enough to address their individual components. To accomplish these objectives required the development of a master generic parts list containing all the components found in bus vehicle systems. This list will be composed of the components used in the five buses that are or will be the most common street buses found in the USA. Ultimately this task will identify components and assemblies to be monitored in the data bank.

2.2 - APPROACH

The approach used to establish a master generic parts list was to obtain a data source that could identify bus equipment and from it develop a master list. It was recognized that bus maintenance manuals are usually descriptive of equipment and therefore a manual for each bus model to be carried in the list was sought and obtained. These manuals were obtained from several sources, one from a property which provided the articulated bus manual and another from the two prime manufacturers who supplied the remaining four model manuals. Each manual was reviewed for its contents and examined in detail for its hardware descriptions and illustrations. From these manuals a parts

breakdown was developed for each system identified in the manual. These system breakdowns when combined, represented a complete listing of all the components identified as part of that bus model. This step led to the creation of a generic parts list for each bus model, after which, when merged into a comprehensive master list, represented all the generic components identified in the various bus models. This master generic parts list, properly coded, serves to describe the equipment that could be monitored in the data bank.

SECTION 3 - MASTER GENERIC PARTS LIST DEVELOPMENT

This section describes in detail the evolution of the master generic parts list. It illustrates and explains the concept used in deciding the format for monitoring components in the data bank and the codes used to identify the components.

3.1 - DEVELOPMENT

Review of bus maintenance manuals revealed significant variation in descriptive material contained in these documents. Each manufacturer describes his models with different emphasis, resulting in design features stressed at various levels of detail. The manuals also showed equipment assembled in terms of bus construction in one case and by functional description in another case. Depending upon the manual used, detail information on operations and repair of components has varied. variation has termed each bus model as somewhat unique with regard to its description and detailed design disclosure. Nevertheless, the information from the manuals do play a significant part in the development of parts lists.

Equipment and vehicles which have provided the same type of service have many similar characteristics. These similarities can be found in the components and equipment which perform similar functions and are identified by like nomenclature. Their operations are generally identical in nature and usually provide the same service regardless of differences in assembly or "packaging." Therefore, because of this fact and regardless of descriptive differences, such equipment can be identified by common nomenclature and also grouped within standard functional classifications without conflicting designations.

Another consideration in the parts list development was the use of road calls. Road call reports from bus properties generally describe equipment in terms of loss of function. These reports usually relate a failure symptom to a component not performing its function. Adding this consideration to the equipment similarities previously noted made it obvious that a functional criteria is the logical standard to use for measuring performance. It then followed that a functional breakdown of bus equipment was the best format for responding to performance criteria when supplying data from the bank. Furthermore, this format implies a consistency of identification between reported information from the properties and equipment functional descriptions used in the data bank regardless of where the data may originate.

3.2 - CODING

Codes known as Generic Part Numbers (GPN) are part of the format conceived for tracking components as they are entered, processed, and retrieved from the data bank. codes, components may be traced through a processing cycle without loss of identification, regardless of their source. The equipment's data sources are known by using a Generic Serial Number (GSN) which identifies the property submitting the data. Combined with the GPN, the GSN forms a Generic Parts List (GPL) which also includes manufacturer parts identification for the components. facilitate a GPL that is uniform, the bus models to monitored will be combined to form a Master Generic Parts List (Bus MGPL) configured to represent and identify data from any model. Consistent with this approach the Bus MGPL will contain a Generic Functional Hierarchy which groups the bus equipment into a number of practical systems each representing a major equipment function to which data can be assigned to for processing.

Table 1 illustrates the functional systems which will be identified in the bank, with their corresponding system code. Alphabetical order of system identification is not maintained due to several systems designations being

inactive. Hence, only those active systems shown will have data assigned to them. The designation BO represents buses in the data bank to distinguish them from rail vehicles data entered in the bank.

Table 1
GENERIC FUNCTIONAL HIERARCHY

во	Transit Bus		
ВА	Doors and Door Controls	BL	Fuel Supply System
вв	Air Comfort System	BM	Body and Structures
BD	Electrical System	BN	Safety Equipment
BE	Engine System	BJ	Suspension, Steering,
			Tires
BF	Brake System	вк	Drive Train

The Bus MGPL is based on bus models which have extensive and detailed parts lists. Not all of the parts in these lists necessarily contribute sufficient data or impact on operation to warrant monitoring in the data bank. Typical of such hardware are miscellaneous items such as nuts, bolts, washers, pins, and gaskets which are found throughout the bus. The Bus MGPL can then be described as a

complete list of bus equipment from the system level down to lowest replaceable unit with the above mentioned All told the Bus MGPL will permit tracking of exceptions. 1300 items of equipment. To avoid repetitive over descriptions in the Bus MGPL where identical assemblies are contained in the list (i.e., Left Hand Assembly and Right Hand Assembly), both are listed but only one will have its components breakdown recorded. To support this format, reports generated from the data bank must follow a data base structure that accommodates the commonality classification and identification of equipment problems experienced by bus properties. A data base so organized can easily group equipment by functional categories and simplify data sorting and selecting routines. As an example of how equipment breakdown and coding would read, Table 2 presents a section of the Bus MGPL. As noted previously in Table 1, BF implies the Brake System and the remaining letter codes shown imply subsystem down component code level to identification. A more detailed and explanatory description of the generic codes and their application is presented in the next section, Generic Parts Number Scheme (Section 4.0).

Table 2 EOUIPMENT BREAKDOWN AND CODING EXAMPLE

BFABAQxxxxxx Drive/Rear Axle Wheel Brakes

BFABAQAAxxxx Bushing

BFABAQABxxxx Cam Support Bracket

BFABAQACxxxx Bushing

BFABAQADxxxx Seal Housing

BFABAQAExxxx Bearing

BFABAQAFxxxx Bushing

BFABAQAGxxxx Return Spring Pin

BFABAQAHxxxx Return Spring

BFABAQAIxxxx Anchor Bushing

BFABAQAJxxxx Roller Pin

BFABAQAKxxxx Anchor Pin

BFABAQALxxxx Spider Assy.

BFABAQAMxxxx Backing Plate

BFABAQANxxxx Brake Camshaft

BFABAQAPxxxx Brake Drum

BFABAQAQxxxx Brake Shoes

The establishment of a Bus MGPL provides the foundation for a Bus Master Reliability Equipment List (Bus MREL). The Bus MREL is a concise version of the Bus MGPL containing only those components selected for monitoring in the data bank. The selection of components will be made by the Bus TRIP Liaison Board Members who consist of participating property members and other representatives. As of this writing, the Board has not had an opportunity to meet and select components for the list. Therefore, no Bus MREL is included in this report.

3.3 - PARTS LIST

Six individual parts lists have been developed and are illustrate in Appendix A. The first list shown, known as the Master Generic Parts List (Appendix A-1) is coded. The remaining five lists (Appendix A-2 to A-6) are not coded and represent parts list breakdowns of the five bus models from which the Master Generic Parts List was derived. These five lists are included for reference only and present a complete description of each bus model's components.

In developing the Master Generic Parts List and to insure complete coverage of equipment, code designations have been provided from the system level down to the least

component which can be monitored. In some cases the breakdown has exceeded the code coverage and no code for that level of equipment (piece part) has been designated. In the code description, the last four characters are identified by a series of X's as follows: xxxx. This designation identifies those components which are at the level called Universal Component Codes (UCC), which is explained in detail in Section 4.0. Briefly, the UCC defines the type of component identified.

SECTION 4 - GENERIC PART NUMBER SCHEME

This section provides a detail description of the codes and a summary of the major equpment lists used in the Bus TRIP data bank.

The application of the GPN system to the development of the Bus TRIP data bank structure has resulted in the establishment of four major types of equipment lists and a list of formats. Their definitions and characteristics are described briefly below.

- Generic Parts List (GPL):
 - Relates property and manufacturer's part numbers for a specific bus type to GPNs
 - Identified by a GSN
- Master Generic Parts List (MGPL):
 - A list of all possible GPNs of which the GPLs are comprised

- Bus Reliability Equipment List (BREL):
 - A subset of a GPL
 - Names specific component being monitored in the Bus-TRIP data bank for a specific bus type
 - Identified by a GSN
- Bus Master Reliability Equipment List (MBREL)
 - A subset of the MGPL
 - Lists all active GPNs in the Bus TRIP data bank

4.1 GENERIC PART NUMBER

The Generic Part Number (GPN) is the means by which component classifiction and identification will be achieved within the Bus TRIP data bank. The GPN (Figure 1) consists of three parts which perform separate functions as defined below:

e Functional Hiearchy. The first five fields (eight characters) of the GPN define a functional breakdown of a transit bus. This hierarchy is the frame of reference through which assemblies are categorized by function for subsequent identification by the remaining two fields (four characters) of the GPN.

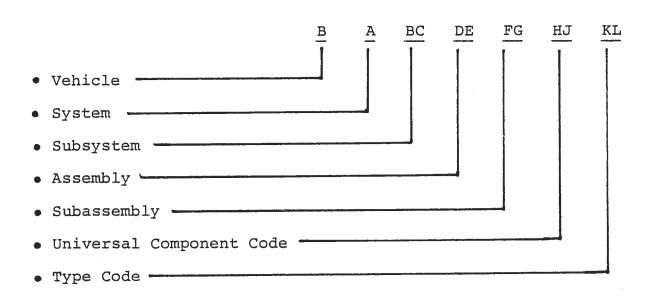


Figure 1 - Bus TRIP generic part number, (GPN)

- Universal Component Code. The next field (two characters) of the GPN consists of a Universal Component Code (UCC), which defines the class or of component being addressed in UCCs functional hierarchy. Α list of developed by DRC for RRV TRIP and this list will modified in the future to accommodate components specific to buses.
- Type Code. The last field (two characters) of GPN is used to identify distinguishing features of the component addressed in functional hierarchy. "Type" is an adjective which is used to further delineate the function of the component or provide additional descriptive information for the UCC described above.

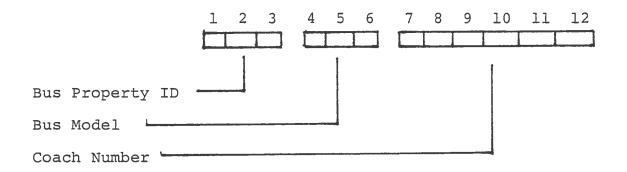
The GPN provides a uniform system of component identification that can be applied to all transit buses. It has the capability of merging the components from various vehicles into defined functional categories without sacrificing component identity. Since the GPNs are common to all bus types, a Generic Serial Number has been created to differentiate between the lists as they apply to a

specific bus type. The GSN (described below) consists of three codes which identify the transit property, bus fleet or type, and bus number, respectively.

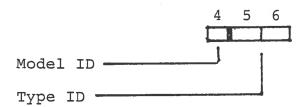
4.2 - GENERIC PARTS LIST

The Generic Parts List (GPL) is a table of all GPNs, along with the associated manufacturer's and property part identification numbers for each GPN, for a specific bus type. Each GPL is identified by a Generic Serial Number (GSN) which identifies the property and bus type described by the GPL.

The format for the GSN is shown in Figure 2. The first character position identifies the transit property where the equipment operates. The second and third character positions identify the bus type of the property. The fourth through seventh character positions will identify the specific bus number within a bus type. However, because a GPL applies to a bus type, no bus numbers will be required for the list. However, bus number entries in the GSN will be used to identify data for a specific bus contained in the Bus TRIP data bank.



Bus Model



Bus Models ID

GMC-ADB - A

GMC-NLC - B

FLX-ADB - C

FLX-NLC - D

MAN -

Articulated - E

Figure 2 - Generic serial number, (GSN)

Generic Parts List have been prepared for five bus types (GMC Advanced Design Bus (ADB); Grumman FLX ADB, GMC New Look Conventional (NLC); Grumman FLX NLC, and AM/MAN Articulated). These GPLs contain only word descriptions of the components at the time of this writing and were used to prepare the Master Generic Parts List in Appendix A.

4.3 - BUS MASTER GENERIC PARTS LIST

The Master Generic Parts List contains only GPNs and component nomenclature, whereas a GPL also contains the corresponding transit property and manufacturer's part numbers for each GPN. The Bus MGPL is prepared by merging the GPNs from the GPLs for individual vehicle types and then deleting duplicate GPNs. The first GPL prepared, therefore, defined the "first cut" of the MGPL. The MGPL is then used as the starting point to prepare the GPL for the next vehicle type. New GPNs are generated to accommodate components which cannot be described by existing numbers. These new GPNs are then added to the Bus MGPL, and the process begins again.

SECTION 5 - RESULTS AND CONCLUSIONS

The objectives of the Task B effort were to identify bus transit equipment to be tracked in the data bank and to establish a uniform component code for this equipment. In doing so, this effort has resulted in the following defined products:

- A Generic Serial Number (GSN), identifying transit properties, fleet type vehicles, and vehicle numbers.
- A Generic Part Number (GPN), identifying vehicle components in terms of their functional hierarchy, breakdowns, component code, and type.
- Generic Parts List (Bus GPL), relating property and manufacturer's part numbers for a specific vehicle type.
- Master Generic Parts List (Bus MGPL), a comprehensive list of all of the GPNs.

The quantity, complexity, and variety of the equipment reviewed for this report suggests a need for additional information to accurately identify and evaluate bus components. This information would include:

- Component parts lists and descriptions
- More detail descriptions of functional equipment and their operations
- Engineering drawings and schematics of equipment
- Quality control information and data
- Specs and requirements for the components
- Manufacturer Part Numbers and Property Stock
 Numbers

SECTION 6 APPENDIX A - PARTS LISTS

APPENDIX A-1

MASTER BUS TRIP LIST

BAXXXXXXXX	Doors	and	Door	Control	s System

BAAAxxxxxxxx Front Door Assys.

BAAAAAxxxxxx Front Leaf Assy. LHS

BAAAABxxxxxx Front Leaf Assy. RHS

BAAAABAAxxxx Door Upper Seals

BAAAABABxxxx Center Panel

BAAAABACxxxx Outer Panels

BAAAABADxxxx Glass Upper

BAAAABAExxxx Glass Lower

Seals

Door Sealing Strips

Rubber Liners

Finger Guards

Trim Skirts

BAAAABAFxxxx Door Bearing Mount Assy.

Mounts

Bearings

Brackets

BAAAABAGxxxx Guide Channel Assy.

BAAAABAHxxxx Guide Door Arm Assy.

BAAAABAIxxxx Guide Arm Roof Bracket

Guide Roller

Guide Holder

BAAAABAJxxxx Fr

Front Door Header & Panel Assy.

Pipe Holder

Ball Joint Head

Ball Joint Head Holder

BAAAABAKxxxx

Panel Shaft Assys.

Shaft

Mount

Bearing

BAAAABALxxxx

Upper Door Panel Bracket Assy.

Bracket

BAAAABAMxxxx

Lower Door Panel Bracket Assy.

Brackets

Bearing

Bushing

BAAAABANxxxx

Lower Shaft Support Bracket Assy.

Bracket

Bearing

Bushing

BAAAABAOxxxx

Door Shaft Assy. LHS

BAAAABAPxxxx

Door Shaft Assy. RHS

BAAAABAQxxxx

Gear and Shaft Assy.

Shaft Upper Pivot Bracket

BAAAABARxxxx

Door Operating-Activating Mechanism

BAAAABASxxxx

Front Mechanical Package

BAAAABATxxxx

Door Engine Assy.

Cylinder-Large/Small

Body

Head

Pivot

Piston Rod

Bearing

Bushing

BAAAABAUxxxx

Metering Adjusting Screws

Spring

Cushioning Seal

BAAAABAVxxxx

Switch Assy.

BAAAABAWxxxx

Connecting Rod Assy.

Connecting Rods

Control Arm

Push Rod

Lever Front

Lever Rear

Lever Wedge

Lever Idler

Idler Support

Tie Rods

Rear Door Assys. - Push Type BAABxxxxxxx Leaf Assys. LHS BAABAAXXXXX Leaf Assys. RHS BAABABXXXXXX Glass Upper BAABABAAxxxx Glass Lower BAABABABXXXX Seals Panels BAABABACXXXX Switch Assy. BAABABADxxxx Panel Bracket Assy. Exit/Lower/Upper BAABABAEXXXX Guide Arm Assy. BAABABAFXXXX Roof Bracket Bearings Lower Shaft Support Bracket Assys. BAABABAGXXXX Check Cylinder Assy. BAABABAHXXXX Piston Rod Door Shaft Lever Assy. BAABABAIxxxx Cam & Lever Assy. BAABABAJXXXX Header Assy. BAABABAKXXXX Connecting Rod/Yoke Assys. BAABABALXXXX

Closing Speed Control Assy. BAABABAMXXXX

Unlock Solenoid Assy. BAABABANXXXX

Return Spring

Door Switch Relay Assy. BAABABAPxxxx

BAABABAQxxxx

Connecting Rod Assy.

Connecting Rods

Control Arms

Tie Rods

BAABABARxxxx

Rear Door Switch Assy.

BAABABASxxxx

Emergency Manual Unlock Assy.

Release Cable

Lever

Rod

Yokes

Adjustment Screws

BAABABATxxxx

Lever Cylinder Check

Lever Front-Rear Door

Connecting Rod

Cam

BAABABAUxxxx

Teeter Lever Assy.

BAABABAVxxxx

Door Engine

Cylinder

Head

Piston Rod

Bearing

Bushing

BAABABAWxxxx

Relay Assy.

BAABACxxxxx	Rear Doors Push Type Air/Electric
BAABACAAxxxx	Speed Control Valves
BAABACABxxxx	Rectifiers
BAABACACxxxx	Air Supply Control Magnet Valve
BAABACADxxxx	Tell Tale Switch Assy.
BAABACAExxxx	Relays
BAABADxxxxx	Rear Doors Folding Type Air/Electric
BAABADAAxxxx	Sensitive Edge Solenoid
BAABADABxxxx	Cam Switch Micro Assy.
BAABADACxxxx	Door Sensitive Edge Bell
BAABADADxxxx	Interrupter Switch Micro
BAABADAExxxx	Wiring Junction Block Assy.
BAABAExxxxxx	Rear Doors Folding Type Full Air Operated (2 types)
BAABAEAAxxxx	Sensitive Edge
BAABAEABxxxx	Non Sensitive Edge
BAABAEACxxxx	Valve Emergency Escape Air
BAACxxxxxxx	Door Controls
BAACAAxxxxxx	Master Door Switch
BAACABxxxxxx	Push Button Switch
BAACACxxxxxx	Door Switch - Front/Open
BAACADxxxxx	Door Open Solenoid Assy.
BAACAExxxxx	Door Controller
BAACAEAAxxxx	Handle Assy.
BAACAEABxxxx	Electrical Switch
BAACAEACxxxx	Controller Body

	BAACAEADxxxx	Bullet	Catch	Bracket
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BAACAEAExxxx Index Plunger

BAACAEAFxxxx Index Spring

BAACAEAGxxxx Actuator Cam

BAACAEAHxxxx Bracket Assy.

BAACAFxxxxxx Door Control Valve

BAACAGxxxxxx Door Air Pressure Regulator

BAACAHxxxxxx Two Way Check Valve Assy.

BAACAIxxxxxx Air Shut Off Valve

BAACAJxxxxxx Air Strainer Assy.

BAACAKxxxxxx Emergency Valves

BAADxxxxxxxx Interlock Systems

BAADAAxxxxxx Brake Interlocks

BAADABxxxxxx Door Switches

BAADACxxxxxx Door Lock Switches

BAADADxxxxxx Lock Panel Switches

BAADAExxxxxx Double Check Value

BAADAFxxxxxx Magnet Valve-Interlock

BAADAFAAxxxx Plunger

BAADAFABxxxx Coil Assy.

BAADAGxxxxxx Terminal Block & Clip Assy.

BAADAHxxxxxx Shell Solenoid Assy.

BAADAIxxxxxx Valve Body Assy.

BAADAIAAxxxx Valve

BAADAJxxxxxx Pressure Regulator Valve

BAADAJAAxxxx Springs

BAADAJABxxxx Body

BAADAJACxxxx Piston

BAADAJADxxxx Seal Assy.

BAADAKxxxxxx Air Separator

BAADAKAAxxxx Body

BAADAKABxxxx Drain Cock

BAADALxxxxxx Accelerator Interlock

BAADALAAxxxx Synchro Valve

BAADALABxxxx Inversion Valve

BAADAMxxxxxx Sensitive Edge System

BAADAMAAxxxx Switch

BAADANxxxxxx Crowd Gate Mechanism

BAADANAAxxxx Engine

BAADANABxxxx Lock Release

BAADANACxxxx Idler Lever

BAADANADxxxx Rod

BAADANAExxxx Gates

BAADANAFxxxx Supports

BAADANAGxxxx Bearings

BAADAPxxxxxx Piping - General

BAADAQxxxxxx Wiring Assys.-General

BBxxxxxxxxx

Air Comfort System

BBAAxxxxxxx

Heater and Ventilation

BBAAAAxxxxxx

Motor and Pump Assy.

BBAAAAAAxxxx

Motor Assy.

Armature

Stator

Bearings

Bearing Cap

End Frame

BBAAAAABxxxx

Brush and Spring Assy.

Brushes

Holders

BBAAAAACxxxx

Pump Assy.

Body

Impeller

Shaft Seal

Cover

Bearing

Bushing

BBAAABxxxxxx

Underfloor Heating and Cooling

Compartment

BBAAABAAxxxx

Heater Core Unit

BBAAABABxxxx

Blower Motor

Armature

BBAAABACxxxx

Brush and Holder Assy.

Brushes

Holders

Bearings

Bearing

End Frame

Blower Wheels

Fan

BBAAABADxxxx

Relays

BBAAABAExxxx

Filters

BBAAABAFxxxx

Condensor

BBAAABAGxxxx

Return Air Dampers

BBAAABAHxxxx

Thermostats

BBABxxxxxxx

Driver Heater and Defroster System

BBABAAxxxxxx

Blower Motor Assy.

BBABAAAAxxxx

Motor

BBABAAABxxxx

Wheel Fan

BBABAAACxxxx

Shroud

BBABAAADxxxx

Side-Wall Heater

BBABAAAExxxx

Heater Core

BBABAAAFxxxx

Resistor

BBABAAAGxxxx

Coil

BBABAAAHxxxx

Heater Line Filter Screen

BBABAAAIxxxx

Filter

BBABABxxxxxx Heat Exchanger-Refridgerant

BBABACxxxxxx Panels

BBABADxxxxxx Dehydrator-Strainer

BBABAExxxxxx Water Modulation Valves

BBABAFxxxxxx Floor Discharge Water Flow Control

Valve

BBABAGxxxxxx Heater Boxes-Bus/Trailer

BBABAHxxxxxx Shut Off Valves

BBABAIxxxxxx Drain Valves

BBABAJxxxxxx Transmission Heat Exchanger

BBACxxxxxxxx Circulating System Additional Engine

Cooling

BBACAAxxxxxx Circulating Unit

BBACABxxxxxx Circulating Pumps

BBACABAAxxxx Heater

BBACABABxxxx Hoses

BBACABACxxxx Thermostat

BBACACxxxxxx Ventilation System

BBACACAAxxxx Operator Window

BBACACABxxxx Passenger Windows

BBACACACxxxx Outside Air Inlet Damper

BBACACADxxxx Filter Assy.

BBACACAExxxx Windshield Intake Vents

BBACACAFxxxx Air Intake Vents

BBADxxxxxxx

Air Conditioning Systems

BBADAAxxxxxx

Compressor Assy.

BBADAAAAxxxx

Housing

BBADAAABxxxx

Head

BBADAAACxxxx

Pistons

BBADAAADxxxx

Rings

BBADAAAExxxx

Connecting Rods

BBADAAAFxxxx

Crankshaft

BBADAAAGxxxx

Bearings

BBADABxxxxx

Oil Pump End Plunger & Spring Assy.

BBADACxxxxx

Oil Pump Relief Valve Assy.

BBADADxxxxx

Oil Pan

BBADAExxxxx

Oil Filter Assy.

BBADAEAAxxxx

Housing

BBADAEABxxxx

Canister

BBADAEACxxxx

Flywheel and Housing Assy.

Housing

Flywheel

BBADAEADxxxx

Rocker Arm Assys.

Rocker Arms

Springs

BBADAEAExxxx

Valves

BBADAEAFxxxx

Clutch Assy.

Coil

Pulley

BBADAEAGxxxx Gear Assys.

BBADAEAHxxxx Drive Hub Assy.

BBADAEAIxxxx Unloader Mechanism

Cylinder Unloader

BBADAEAJxxxx Suction Valve

BBADAEAKxxxx Discharge Valve

BBADAEALxxxx Expansion Valve

BBADAFxxxxxx Condenser Unit & Assys.

BBADAFAAxxxx Return Air Grill

BBADAFABxxxx Return Air Thermostat

BBADAFACxxxx Temperator Controller

BBADAFADxxxx Temperator Changeover Controller

BBADAFAExxxx Condenser Fans

BBADAFAFxxxx Condenser Coils

BBADAGxxxxxx Evaporator-Blower and Motors Assy.

BBADAGAAxxxx Evaporator

BBADAGABxxxx Assy.

BBADAGACxxxx Motor Assy.

BBADAGADxxxx Rotor Shaft Assy.

BBADAGAExxxx Fan Cooling Assy.

BBADAGAFxxxx Evaporator Coils

BBADAGAGxxxx Heating Coils

BBADAHxxxxxx Alternator Assy. A/C Drive

BBADAHAAxxxx Alternator

BBADAHABxxxx Capacitor Assy.

BBADAIxxxxx

Retainer/Roller Bearings Assy.

BBADAJxxxxxx

Rotor Assy.

BBADAJAAxxxx

Shaft

BBADAJABxxxx

Rotor Drive End

Rotor Hub

BBADAKxxxxxx

Slip Ring Assy.

BBADALxxxxx

Coil Assy.

BBADAMxxxxxx

Brush Spring Assy.

BBADANxxxxx

Fan Assy.

BBADAPxxxxxx

Housing Assy.

BBADAQxxxxxx

Rectifier Assys.

BBADARxxxxx

Stator Assy.

BBADASxxxxxx

Pulley Assy.

BBADASAAxxxx

Belt

BBAExxxxxxx

Receiver Tank-Liquid Refrigerant

BBAEAAxxxxxx

Power Assy.

BBAEABxxxxxx

Cage Assy.

BBAFxxxxxxx

Refrigerant System Components

BBAFAAxxxxx

Filter Drier

BBAFABxxxxxx

Accumulator

BBAFACxxxxx

Liquid Solenoid Valve

BBAFADxxxxxx

Isolation Valve

BBAFAExxxxx

EPR Valve

BBAFAFxxxxx

Suction Pressure Switch

BBAFAGxxxxxx

Discharge Pressure Protection Switch

Evaporator Pressure Regulator BBAFAHxxxxxx BBAFAIxxxxxx Axial Plate BBAFAJxxxxxx Valve Plate BBAFAKxxxxxx Diaphram Service Valve BBAFALxxxxxx Valve & Stem Assy. BBAFAMxxxxxx Test Gauge Connection BBAFANxxxxx Piping - General BBAFAPxxxxxx Wiring Assys. General BBAFAQxxxxxx Air Comfort System Controls BBAGxxxxxxxx BBAGAAxxxxx Heater Controls/Switches Control Panel BBAGAAAAxxxx Heater/Defroster Switch Booster Blower Switch Control Box Blower Interlock Relay Heat Control Relay Water Solenoid Valve Mercury Tube Thermostat Bimetal Thermostat Assy. BBAGAAABxxxx Control Valves

Grad U Stat

Air Pressure Regulator Valve

Temperature Range Control

BBAGAAACxxxx

Air Conditioner Controls/Switches

Electrical Control Units

Climate Control Switch

Refrigerant Hi-Low Pressure Switch

Air Condition Oil Pressure Switch

Control Thermostats

Air Shutter Return Assy.

A/C Blower Motor Magnetic Switch

BDxxxxxxxxx

Electrical System

BDAAxxxxxxx

Generator Drive Assy.

BDAAAAxxxxxx

Generator Drive

BDAAAAAAxxxx

Drive Gear

BDAAAAABxxxx

Balance Shaft Gear

BDAAAAACxxxx

Driver Gear

BDAAAAADxxxx

Adapter

BDAAAAAExxxx

Rotor Shaft

BDAAABxxxxxx

Diode End Frame

BDAAABAAxxxx

Diodes

BDAAABABxxxx

Support Assy.

BDAAABACxxxx

Relay

BDAAACxxxxxx

Generator

BDAAACAAxxxx

Field

BDAAACABxxxx

Rotor Assy.

BDAAACACxxxx Stator Assy.

BDAAACADxxxx Bearings

BDAAADxxxxxx Generator

BDAAADAAxxxx Field

BDAAADABxxxx Rotor Assy.

BDAAADACxxxx Stator Assy.

BDAAADADxxxx Shaft

BDAAADAExxxx Control Relay

BDAAAExxxxxx Voltage Regulator

BDAAAEAAxxxx Diodes

BDAAAEABxxxx Condensors

BDAAAEACxxxx Resistors

BDAAAEADxxxx Transistors

BDAAAEAExxxx Insulators

BDABxxxxxxxx Power Storage System

BDABAAxxxxxx Batteries (24 volt-Series)

BDABABxxxxxx Compartment, Battery

Charging Circuit

Cables

BDACxxxxxxxx Lighting System External

BDACAAxxxxxx Head Light Assy-Roadside/Curbside

BDACAAAAxxxx Sealed Beam (Standard-Bezel)

BDACAAABxxxx Shell

BDACAAACxxxx Retainer Ring

BDACAAADxxxx Door Assy.

BDACABxxxxxx

Dimmer Switch

BDACACXXXXX

Directional Signals Standard -

Roadside/Curbside

BDACADxxxxxx

Directional Signals-Foot Operated

BDACADAAxxxx

Body Assy.

BDACADABxxxx

Bulbs

BDACADACxxxx

Lens

BDACADADxxxx

Door Assy.

BDACAExxxxxx

Stop & Tail Light Assys.

BDACAEAAxxxx

Body Assy.

BDACAEABxxxx

Bulbs

BDACAEACxxxx

Lens

BDACAEADxxxx

Door Assy.

BDACAEAExxxx

Stop Light Switch

BDACAFxxxxx

Hazard Warning Flasher System

BDACAGxxxxxx

Identification Light System

BDACAGAAxxxx

Body

BDACAGABxxxx

Bulbs

BDACAGACXXXX

Lens

BDACAGADxxxx

Door Assy.

BDACAHxxxxxx

Marker Lights

BDACAHAAxxxx

Body

BDACAHABxxxx

Bulbs

BDACAHACXXXX

Lens

BDACAHADxxxx

Door Assy.

BDACAIxxxxx

Back Up Light System

BDACAIAAxxxx Switch Assy.

BDACAIABxxxx Body

BDACAIACxxxx Bulbs

BDACAIADxxxx Lens

BDACAIAExxxx Door Assy.

BDADxxxxxxxx Lighting System Internal

BDADAAxxxxxx Gauge and Tell Tale Lights Assys.

BDADABxxxxxx Farebox Light Assys.

BDADACxxxxxx Destination Sign Light Assys.

BDADADxxxxxx Engine Compartment Light Assys.

BDADAExxxxxx Emergency Door Light Assy.

BDADAFxxxxxx Dome Light Assys.

BDADAGxxxxxx Fluorescent Light Assys.

BDADAGAAxxxx Fluorescent Bulbs

BDADAHxxxxxx Stepwell Light Assys. Front/Rear

BDAExxxxxxxx Controls/Circuit Protection Assys.

BDAEAAxxxxxx Instrument Panel Assys.

BDAEAAAAxxxx Power Relay

BDAEAAABxxxx Fuse Block

BDAEAAACxxxx Terminal Assy.

BDAEAAADxxxx Diagnostic Module

BDAEAAAExxxx Circuit Brakers

BDAEABxxxxxx Speedometer Assy Mechanical

Electrical

BDAEABAAxxxx Speedometer Head

BDAEABABxxxx Cable

BDAEABACxxxx

Worm Gear

BDAEACxxxxxx

Sensor & Rotor Assy (Electrical)

BDAEACAAxxxx

Head Assy.

BDAEACABxxxx

Slotted Rotor

BDAEACACXXXX

Wheel Speed Sensor

BDAEACADxxxx

Sensor Module

BDAEACAExxxx

Electrical Cable

BDAEADxxxxxx

Tachograph Assy.

BDAEADAAxxxx

Tachograph Indicator

BDAEADABxxxx

Mechanical Assys.

BDAEADACxxxx

Electrical Assys.

BDAEAExxxxxx

Voltmeter Indicator

BDAEAFxxxxx

Motor Guard Control

BDAEAGxxxxxx

Panel Light Rheostat

BDAEAHxxxxxx

Test Switch Assy.

BDAEAIxxxxxx

Fast Idle Switch

BDAEAJxxxxxx

Passenger Signal Switch

BDAEAKxxxxxx

Headlight Switch Assy.

BDAEALxxxxxx

Directional Switch Assy.

BDAEAMxxxxxx

Hazard Switch Assy.

BDAEANxxxxxx

Parking Brake Stop Lamp Switch

BDAEAPxxxxxx

Engine Compartment Switch

BDAEAOxxxxx

Emergency Door Lights

BDAEARxxxxxx

Door Lights Control

BDAEASxxxxxx

Interior Lights Control

BDAEATxxxxxx

Stepwell Lights Control

BDAFxxxxxxxx

Protective Circuits General

BDAFAAxxxxxx

Regulators

BDAFABxxxxx

Relays

BDAFACxxxxx

Switches

BDAFADxxxxxx

Wireharness Assys.

BDAFAExxxxxx

Modules

BDAFAFxxxxxx

Terminal Assys.

BDAFAGxxxxxx

Fuse Blocks

BDAFAHxxxxxx

Circuit Breakers

BDAFAIxxxxxx

Connectors

BDAFAJxxxxxx

Cannon Plug Assys.

BEXXXXXXXX

Engine Systems

BEAAxxxxxxx

Diesel Engine 8 Cylinder

BEABXXXXXXXX

Diesel Engine 6 Cylinder

BEABAAxxxxxx

Engine Block

BEABAAAAxxxx

Liners

BEABAAABxxxx

Cylinder Head

BEABABXXXXX

Crank Shaft

BEABABAAxxxx

Bearings

BEABABABxxxx

Pully

BEABABACxxxx

Vibration Damper

BEABACXXXXX

Piston Assys.

BEABACAAxxxx

Pistons

BEABACABXXXX

Rings

BEABACACXXXX

Pins

BEABACADxxxx

Connecting Rods

BEABACAExxxx

Bearing Caps

BEABADXXXXXX

Camshaft

BEABADAAxxxx

Bearings

BEABADABxxxx

Accessory Drive

BEABAExxxxxx

Gear Train Assy.

BEABAEAAxxxx

Crankshaft Gear

BEABAEABXXXX

Camshaft Gear

BEABAFXXXXX

Valve Operating Mechanism

BEABAFAAxxxx

Rocker Arms

BEABAFABXXXX

Push Rods

BEABAFACxxxx

Valves-Intake/Exhaust

BEABAFADxxxx

Guides

BEABAFAExxxx

Springs

BEABAFAFXXXX

Cover

BEABAGXXXX

Engine Mount Assys.

BEABAGAAXXXX

Upper Support Brackets

BEABAGABxxxx

Engine Cradle Support

BEABAGACxxxx

Cushion Mount

BEABAGADxxxx

Bulkhead Bracket

BEABAGAEXXXX

Cradle Hangers

BEABAGAFxxxx

Rear Mounts

BEABAGAGXXXX

Stabilizer Rod

BEACxxxxxxx

Engine Cooling System

BEACAAxxxxx

Water Pump Assy.

BEACAAAAxxxx

Housing

BEACAAABxxxx

Shaft Assy.

BEACAAACxxxx

Bearing

BEACAAADxxxx

Impeller

BEACAAAExxxx

By-Pass Elements

BEACAAAFxxxx

Water Pipe Connect

BEACAAAGxxxx

Seal

BEACAAAHxxxx

Hose

BEACABxxxxxxx

Radiator

BEACABAAxxxx

Hoses

BEACABABXXXX

Shutter Assy.

BEACABACxxxx

Shutter Air Cylinder

BEACABADxxxx

Filter

BEACACXXXXX

Thermostat Outlet Housing Assy.

BEACACAAxxxx

Housing

BEACACABxxxx

Thermostats

BEACACACXXXX

Gasket

BEACACADxxxx

Cover

BEACACAExxxx

Gauge

BEACACAFxxxx

Water Temperature Overheat

Switch

BEACADxxxxx

Surge Tank Assy.

BEACADAAxxxx

Tank

BEACADABXXXX

Filler Cap

BEACADACXXXX

Sight Gauge

BEACADADxxxx

Pressure Relief Valve

BEACADAExxxx

Piping

BEACADAFXXXX

Filter

BEACADAGXXXX

Element

BEACADAHXXXX

Cock Valve

BEACAEXXXXX

Hydraulic Fluid Drive Assy.

BEACAEAAxxxx

Driving Torus Housing

BEACAEABxxxx

Driving Torus

BEACAEACxxxx

Damper

BEACAEADxxxx

Coupling

BEACAEAExxxx

Fan Drive Housing

HUB

BEACAEAFxxxx

Bearing

BEACAEAGxxxx

Retainer

BEACAEAHXXXX

Clutch Thrust Plate

BEACAEAIXXXX

Brake Disc

BEACAEAJxxxx

Piston

BEACAEAKxxxx

End Housing

BEACAEALxxxx

Piston Spring

BEACAEAMXXXX

Driver Plates

BEACAEANxxxx

Drive Shaft

BEACAEAPxxxx

Gear and Pinion

BEACAEAOxxxx Retainer

BEACAEARxxxx Drive Pulley

BEACAEASxxxx Fan

BEACAEATxxxx Control Valve

BEACAFxxxxxx Heat Exchanger Assy.

BEACAFAAxxxx Core

BEACAFABxxxx Low Coolant Relay

BEADxxxxxxxx Lubricant System

BEADAAxxxxxx Oil Pump Assy.

BEADAAAAxxxx Body

BEADAAABxxxx Lobe Rotors

BEADAAACxxxx Drive Gear

BEADAAADxxxx Suction Pipe-Strainer

BEADAAAExxxx Oil Pump Delivery

BEADAAAFxxxx Oil Pan/Dipstick

BEADABxxxxxx Oil Pump Scavenge

BEADABAAxxxx Body

BEADABABxxxx Lobe Rotors

BEADACxxxxxx Oil Pressure Relief Valve Assy.

BEADACAAxxxx Valve

BEADACABxxxx Spring

BEADACACxxxx Cap

BEADADxxxxxx Oil Filter Assy.

BEADACAAxxxx Shell

BEADACABxxxx Element

BEADAEXXXXX

By-Pass Oil Filter Assy.

BEADAEAAxxxx

Filter Base

BEADAEABxxxx

Element

BEADAEACxxxx

Filter Shell

BEADAFXXXXX

Oil Cooler Assy.

BEADAFAAxxxx

Body

BEADAFABxxxx

Cooler Element

BEADAGXXXXXX

Piston Jet Coolers

BEADAGAAXXXX

Valves

BEADAHXXXXXX

Crankcase Ventilation/Breather

System

BEADAHAAxxxx

Breather/Ventilation Chamber

BEADAHABXXXX

Breather Valve

BEADAHACXXXX

Breather Pipe

BEADAIXXXXX

Auto Oil Feed System

BEADAIAAxxxx

Oil Pipes

BEADAIABXXXX

Auto Shut Off Valve

BEADAIACxxxx

Ball

BEADAJXXXXX

Oil Pan Float Valve Assy.

BEADAJAAxxxx

Reservoir

BEADAJABXXXX

Float Valve

BEAExxxxxxx

Air Cleaner Intake-Exhaust Systems

BEAEAAxxxx

Intake System

BEAEAAAAxxxx

Body

BEAEAAABxxxx

Screen

BEAEAAACxxxx

Inlet Hose

BEAEAAADxxxx Restriction Indicator

BEAEAAAExxxx Pump Hose

BEAEAAAFxxxx Boot

BEAEAAAGxxxx Vacuator Valve

BEAEAAAHxxxx Element

BEAEAAAIxxxx Intake Duct

BEAEAAAJxxxx Manifold Assy.

BEAEABxxxxxx Exhaust System

BEAEABAAxxxx Manifolds

BEAEABABxxxx Head Pipes

BEAEABACxxxx Flex Pipes

BEAEABADxxxx Connecting Pipe

BEAEABAExxxx Muffler Assy.

BEAEABAFxxxx Straps

BEAEABAGxxxx Brackets

BEAEABAHxxxx Tail Pipe Assy.

BEAFxxxxxxxx Electrical Distribution Systems

BEAFAAxxxxxx Emergency Stop System

BEAFAAAAxxxx Engine Stop Solenoid Valve

BEAFAAABxxxx Case and Coil Assy.

BEAFAAACxxxx Plunger and Rod Assy.

BEAFAAADxxxx Plunger Spring

BEAFAAAExxxx Body

BEAFAAAFxxxx Engine Fast Idle Solenoid

Valve

BEAFAAAGxxxx Engine Control-Air Cylinder

BEAFAAAHXXXX

Engine Stop-Air Cylinder

BEAFAAAIxxxx

Fast Idle Limiting Air

Cylinder

BEAFAAAJxxxx

Fast Idle Air Cylinder

BEAFABXXXXXX

Low Oil Pressure Warning System

BEAFABAAXXXX

Pressure Gauge

BEAFABABXXXX

Pressure Switch

BEAGXXXXXXX

Engine Brake Mechanism

BEAGAAXXXXXX

Supply Housing Assy.

BEAGAAAAXXXX

Housing

BEAGAAABxxxx

Exhaust Valve Bridge

BEAGAAACxxxx

Slave Piston

BEAGAAADxxxx

Solenoid Valve

BEAGAAAExxxx

Drone Housing

BEAGAAAFXXXX

Control Valve

BEAGABXXXXX

Master Piston Fork Assy.

BEAGABAAXXXX

Master Piston

BEAGABABXXXX

Slave Piston

BEAGACXXXXX

Engine Micro Switch

BEAGACAAXXXX

Buffer Switch

BEAGACABXXXX

Splitter Control Valve Micro

Switch

BEAGADXXXXX

Engine Starter System

BEAGADAAXXXX

Motor Assy.

BEAGADABXXXX

Rotor

BEAGADACXXXX

Collector

BEAGADADxxxx Brush Assy.

BEAGADAExxxx Solenoid Switch

BEAGADAFxxxx Pinion Shaft Assy.

BEAGADAGxxxx Multiple Disc Clutch

Control Relay

BEAGADAHxxxx Start-Locking Relay

Capictor

BEAGADAIxxxx Cable Assys.

BFxxxxxxxxx

Brake and Air Supply Systems

BFAAxxxxxxxx Master Brake Cylinder Assy. & Brake

Components

BFAAAAXXXXXX Brake Pedal Assy.

BFAAABxxxxxx Mounting Pin Assy.

BFAAACxxxxxx Plate

BFAAADxxxxxx Bushing

BFAAAExxxxxx Linkage Assy.

BFAAAFxxxxxx Housing Assy.

BFAAAFAAxxxx Diaphragm

BFAAAFABxxxx Piston

BFAAAFACxxxx Spring

BFAAAFADxxxx Piston Rod Guide

BFAAAFAExxxx Boot

BFAAAFAFxxxx Stop Light Pressure Switch

BFABxxxxxxx

Tristop Brake Cylinder Assy.

BFABAAXXXXX

Housing Assy.

BFABAAAAXXXX

Diaphragm

BFABAAABxxxx

Spring

BFABAAACxxxx

Piston Rod

BFABAAADxxxx

Piston

BFABAAAExxxx

Spring

BFABABxxxxxx

Single Relay Valve

BFABABAAXXXX

Piston

BFABABABXXXX

Diaphragm

BFABABACXXXX

Spring

BFABACXXXXX

Overload Protection Valve

BFABACAAxxxx

Valve Body

BFABACABXXXX

Pistons

BFABACACXXXX

Diaphragm

BFABACADxxxx

Air Line Strainer

BFABADxxxxxxx

Flow Relief Valve

BFABADAAxxxx

Adjusting Spring

BFABADABXXXX

Piston

BFABADACxxxx

Diaphragm

BFABADADxxxx

Check Valve

BFABADAExxxx

Plunger

BFABAExxxxx

Pressure Limiting Valve

BFABAEAAxxxx

Housing

BFABAEABxxxx

Piston

BFABAEACxxxx	Pressure Pad
BFABAEADxxxx	Valve
BFABAEAExxxx	Spring
BFABAEAFxxxx	Case, Spring
BFABAEAGxxxx	Cover
BFABAFxxxxxx	Fast Exhausting Valve
BFABAFAAxxxx	Upper/Lower Housing
BFABAFABxxxx	Diaphragm
BFABAFACxxxx	Coil Spring
BFABAGxxxxxx	Automatic Drain Valve
BFABAGAAxxxx	Upper/Lower Housing
BFABAGABxxxx	Piston
BFABAGACxxxx	Housing Cap
BFABAHxxxxxx	Two Way Valve
BFABAIxxxxxx	Emergency Release Valve 3/2
BFABAIAAxxxx	Push Button
BFABAIABxxxx	Valve Plunger
BFABAIACxxxx	Coil Spring
BFABAIADxxxx	Piston
BFABAIAExxxx	Bushing

BFABAJAAxxxx Piston

BFABAJABxxxx Valve Plunger

BFABAJxxxxxx

BFABAJACxxxx Coil Spring

Air Drier Way Valve 3/2

BFABAKxxxxxx Anti-Jack Knife Brake Way 3/2

BFABAKAAxxxx Valve, Solenoid

BFABAKABxxxx Plunger

BFABAKACxxxx Piston

BFABAKADxxxx Spring

BFABAKAExxxx Armature

BFABAKAFxxxx Coil Body

BFABALxxxxxx Auxiliary Way Valve 3/2

BFABALAAxxxx Electrical Control

BFABALABxxxx Solenoid Coil

BFABALACxxxx Spring

BFABALADxxxx Armature

BFABAMxxxxxx Open Door Brake Valve

BFABAMAAxxxx Coil Body

BFABAMABxxxx Armature

BFABAMACxxxx Spring

BFABAMADxxxx Solenoid Coil

BFABANxxxxxx Slack Adjusters (Steerable-Drive),

Automatic-Rear

BFABANAAxxxx Control Disc

BFABANABxxxx Spring Assy.

BFABANACxxxx Worm Shaft

BFABANADxxxx Cone Clutch

BFABANAExxxx Rack

BFABANAFxxxx Gear

BFABANAGxxxx Cover Plate

BFABANAHxxxx

Quick Release Valve

BFABAPxxxxxx

Steerable/Front-Axle Wheel Brakes

BFABAPAAxxxx

Bushing

BFABAPABxxxx

Cam Support Bracket

BFABAPACxxxx

Spider-Bushing

BFABAPADxxxx

Brake Camshaft

BFABAPAExxxx

Return Spring Pin

BFABAPAFxxxx

Return Spring

BFABAPAGxxxx

Anchor Plunger

BFABAPAHxxxx

Anchor Bushing

BFABAPAIxxxx

Spider Assy.

BFABAPAJxxxx

Backing Plate

BFABAPAKxxxx

Brake Drum

BFABAPALxxxx

Brake Shoes

BFABAPAMxxxx

Brake Lining

BFABAPANxxxx

Pin-Anchor

BFABAPAPxxxx

Brake Chambers

BFABAPAQxxxx

Actuator

BFABAPARxxxx

Plunger Housing

BFABAPASxxxx

Plunger

BFABAPATxxxx

Adjusting Pawl

BFABAPAUxxxx

Wedge Assy.

BFABAPAVxxxx

Adjusting Sleeve Actuator

BFABAPAWxxxx

Rollers

BFABAPAXxxxx

Lock Plate

	BFABAPAYxxxx	Cage
	BFABAPAZxxxx	Cast Spider Housing
	BFABAPBAxxxx	Non Pressure Housing
	BFABAPBBxxxx	Diaphragm Plate-Push Rod
V	BFABAPBCxxxx	Diaphragm-Aux. ARTICUlated
	BFABAPBDxxxx	Pressure Housing
	BFABAPBExxxx	Pressure Plate-Aux.
	BFABAPBFxxxx	Mechanical Release Yoke
	BFABAPBGxxxx	Bearing
BF	ABAQxxxxxx	Drive/Rear Axle Wheel Brakes
	BFABAQAAxxxx	Bushing
	BFABAQABxxxx	Cam Support Bracket
	BFABAQACxxxx	Bushing
	BFABAQADxxxx	Seal Housing
	BFABAQAExxxx	Bearing
	BFABAQAFxxxx	Bushing
	BFABAQAGxxxx	Return Spring Pin
	BFABAQAHxxxx	Return Spring
	BFABAQAIxxxx	Anchor Bushing
	BFABAQAJxxxx	Roller Pin
	BFABAQAKxxxx	Anchor Pin
	BFABAQALxxxx	Spider Assy.
	BFABAQAMxxxx	Backing Plate
	BFABAQANxxxx	Brake Camshaft

BFABAQAPxxxx

Brake Drum

BFABAQAQxxxx BFABAGARXXXX BFABARxxxxx

Brake Shoes

Brake Pressure Governors (Vibration Dampers Drive Axle/Front Trailer)

BFABARAAxxxx

Piston-Upper/Lower

BFABARABxxxx

Check Valve

BFABARACxxxx

Bore

BFABARADxxxx

Piston-Bellows

BFABARAExxxx

Roller

BFABARAFxxxx

Lever-Upper/Lower

BFABARAGxxxx

Spring

BFABARAHxxxx

Valve Body

BFABARAIxxxx

Pull Rod

BFABARAJxxxx

Housing

BFABARAKxxxx

Inlet-Outlet Valve

BFABARALxxxx

Cylinder

BFABASxxxxxx

D-2 Governor Assy.

BFABASAAxxxx

Body

BFABASABxxxx

Piston Assy.

BFABASACxxxx

Valve

BFABASADxxxx

Cover

BFABATxxxxxx

Lead Bus Brake Application Valve

BFABATAAxxxx

3-Way Switch

BFABATABxxxx

Switch Housing

BFABATACxxxx

Rubber Damper

BFABATADxxxx

Piston-Upper/Lower

BFABATAExxxx

Springs

BFABATAFxxxx Plug

BFABATAGxxxx Valve

BFABATAHxxxx Housing Half-Upper/Lower

BFABATAIxxxx Spring

BFABATAJxxxx Valve

BFABATAKxxxx Tred Plate

BFABAUxxxxxx Four Circuit Protection Valve

BFABAUAAxxxx Valve

BFABAUABxxxx Diaphragms

BFABAUACxxxx Springs

BFABAUADxxxx Check Valve

BFABAUAExxxx Overflow Valves

BFABAVxxxxxx Trailer Control Valve

BFABAVAAxxxx Piston

BFABAVABxxxx Spring

BFABAVACxxxx Valves

BFABAVADxxxx Piston Tube

BFABAVAExxxx Diaphragm

BFABAVAFxxxx Bleeder Valve

BFABAVAGxxxx Piston

BFABAWxxxxxx Line Filter Assy.

BFABAWAAxxxx Housing

BFABAWABxxxx Cartridge

BFABAWACxxxx Coil Spring

BFACxxxxxxx Parking Brake System

BFACAAxxxxxx Parking Brake Control Valve Assy.

BFACAAAAxxxx Cover Assy.

BFACAAABxxxx Relay Valve, Parking Brake

BFACAAACxxxx Control Lever-Hand

BFACAAADxxxx Linkage

BFACAAAExxxx Adjustable Lever

BFACAAAFxxxx Spring

BFACAAAGxxxx Plunger Rod

BFACAAAHxxxx Pressure Piece

BFACAAAIxxxx Valve Body

BFACAAAJxxxx Staging Spring

BFACAAAKxxxx Staging Piston

BFACAAALxxxx Spring

BFACAAAMxxxx Valve Plunger

BFACAAANxxxx Drive

BFADxxxxxxxx Air Supply Systems

BFADAAxxxxxx Air Compressor Assy. & Supply

Systems

BFADAAAAxxxx Cylinder Block

BFADAAABxxxx Head

BFADAAACxxxx Valves-Inlet/Discharge

BFADAAADxxxx Springs

BFADAAAExxxx Seats

BFADAAAFxxxx Guides

BFADAAAGxxxx Pistons

BFADAAAHxxxx Unloaders

BFADAAAIxxxx Rings

BFADAAAJxxxx Pins

BFADAAAKxxxx Connecting Rods

BFADAAALxxxx Bearings

BFADAAAMxxxx Caps

BFADAAANxxxx Crankshaft

BFADAAAPxxxx Bearings-Main/Ball

BFADAAAQxxxx Crankcase

BFADAAARxxxx Cover

BFADABxxxxxx Air Tanks

BFADABAAxxxx Tanks-Lead Bus/Trailer

BFADABABxxxx Lines

BFADABACxxxx Connectors

BFADACxxxxxx Supply Reservoir

BFADACAAxxxx Valve

BFADACABxxxx Drain Cock

BFADADxxxxxx Primary Reservoir

BFADAExxxxxx Secondary Reservoir

BFADAFxxxxxx Parking Reservoir

BFADAFAAxxxx Check Valves

BFADAFABxxxx Air Gauges

BFADAFACxxxx Low Pressure Indicator Switches

BFADAFADxxxx Application Valves

BFADAFAExxxx Inversion Valves-TR-3

BFADAFAFxxxx Brak	ke Modulation Valve
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BFADAFAGxxxx Cables

BFADAFAHxxxx Connectors

BFADAGxxxxxx Muffler Assy.

BFADAGAAxxxx Stand By Valve

BFADAGABxxxx Pressure Regulator Valve

BFADAGACxxxx Magnet Valve

BFADAGADxxxx Double Check Valve

BFADAHxxxxxx Alcohol Evaporator

BFADAHAAxxxx Check Valve

BFADAHABxxxx Toggle

BFADAHACxxxx Wick

BFADAHADxxxx Rod

BFADAHAExxxx Tank

BFADAHAFxxxx Moisture Ejector Valve

BFADAIxxxxxx Remote Control Drain System

BFADAIAAxxxx Control Air Valve

BFADAIABxxxx Pressure Regulator

BFADAIACxxxx Housing-Upper/Lower

BFADAIADxxxx Springs

BFADAIAExxxx Check Valves

BFADAIAFxxxx Plunger

BFADAIAGxxxx Safety Valve

BFADAIAHxxxx Filter

BFADAIAIxxxx Piston

BFADAIAJxxxx Diaphragm

BLxxxxxxxxx

Fuel Supply Systems

BLAAxxxxxxx

Fuel Tank - Supply/Return System

BLAAAAxxxxx

Fuel Tank Assy.

BLAAABxxxxxx

Primary Service Reservoir

BLAAACxxxxxx

Filler Cap

BLAAADxxxxxx

Vent Line

BLAAAExxxxxx

Anti Spill Valve

BLAAAFxxxxxx

Check Valve

BLAAAGxxxxxx

Low Pressure Switch

BLAAAHxxxxxx

Pressure Relief Valve

BLAAAIxxxxxx

Level Control Valve

BLAAAJxxxxxx

Fuel Level Sending Unit

BLABxxxxxxx

Primary-Secondary Fuel Filters

(-Stages 1&2)

BLABAAxxxxxx

Shells

BLABABxxxxxx

Elements

BLABACXXXXX

Drain Cocks

BLACxxxxxxx

Fuel Pump Assys.

BLACAAxxxxx

Shaft

BLACABXXXXX

Gears

BLACACXXXXX

Cover Plate

BLACADXXXXX

Housing

BLACAExxxxx

Seal

BLACAFXXXXX

Supply-Return Lines

BLADxxxxxxx	Fuel Lift Pump
BLADAAxxxxx	Pump Screen
BLADABxxxxx	Hand Primer
BLAExxxxxxxx	Injection Pump
BLAEAAxxxxx	Injection Control Lever
BLAEABxxxxx	Relief Valve
BLAEACxxxxxx	Solenoid Valve
BLAEADxxxxx	Return-Pressure Pipes
BLAEAExxxxxx	Leak Off Connection
BLAEAFxxxxx	Pipe-Leak Off
BLAFxxxxxxx	Governor
BLAGxxxxxxx	Air Controlled Throttle System
BLAGAAxxxxx	Treadle
BLAGABxxxxx	Connecting Linkage
BLAGACxxxxx	Position Transmitter
BLAGADxxxxx	Operating Lever
BLAGAExxxxxx	Transmission Electrical Connection
BLAGAFxxxxxx	Floor Plate
BLAGAGXXXXXX	Pedal Lock Cylinder
BLAGAHXXXXX	Control Valve
BLAGAIxxxxxx	Rod & Plunger
BLAGAJxxxxxx	Torsion Spring
BLAGAKxxxxxx	Control Cylinder
BLAHxxxxxxxx	Throttle & Control Linkage Assys.
BLAHAAxxxxxx	Modulation Linkage-Engine/ Transmission

BLAHABxxxxxx Modulation Lever

BLAHACxxxxxx Spring

BLAHADxxxxxx Intermediate Lever

BLAHAExxxxxx Operating Lever

BLAHAFxxxxxx Control Linkage

BLAHAGxxxxxx Cable

BLAIxxxxxxxx Fast Idle Air Pressure Cylinder

BLAIAAxxxxx Body

BLAIABxxxxxx Spring-Inner/Outer

BLAIACxxxxxx Piston

BLAIADxxxxxx Rod

BLAIAExxxxxx Bearing

BLAIAFxxxxxx Sleeve

BLAIAGxxxxxx Cover

BLAJxxxxxxxx Engine Stop Cylinder

BLAJAAxxxxxx Operating Lever

BLAJABxxxxxx Cylinder-Stop

BLAJACxxxxxx Air Pressure Line

BMxxxxxxxxxx Body & Structures

BMAAxxxxxxxx Frame & Undercarriage Structures

BMAAAAxxxxxx Shell Exterior-Interior

BMAAAAAAxxxx Paneling

BMAAAAABxxxx Ceiling

BMAAAAACxxxx Sides

BMAAAAADxxxx	Floor
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BMAAAAAExxxx Front-Rear

BMAAAAAFxxxx Floor-Covering

BMAAAAAGxxxx Insulation

BMAAAAHxxxx Jack Pad

BMAAABxxxxxx Front Wall Assy.

BMAAABAAxxxx Access Doors

BMAAABABxxxx Closure Assys. Door, (Top Sides)

BMAAABACxxxx Bumper Assys., Extensions

BMAAACxxxxxx Curbside Assys.

BMAAACAAxxxx Finders, Front-Rear

BMAAACABxxxx Rub Rail

BMAAACACxxxx Trim

BMAAADxxxxxx Articulated Assys.

BMAAADAAxxxx Hinge Connections

BMAAADABxxxx Frame Mounts

BMAAADACxxxx Live Ring (Horz. Swing)

BMAAADADxxxx Auxiliary Frame (Vert)

BMAAADAExxxx Bellows Assy.

BMAAADAFxxxx Gangway Bellows

BMAAADAGxxxx Center Frame

BMAAADAHxxxx Coupling

BMAAADAIxxxx Roof Coupling

BMAAADAJxxxx Tensioning Cable Assys.

BMAAADAKxxxx Turntable Assy.

BMAAADALxxxx Control Arms

BMAAADAMxxxx Tie Rod Assys.

BMAAADANxxxx Articulated Brake Indicators

BMAAADAPxxxx Warning System Switches

BMAAAExxxxxx Windows Assys.

BMAAAEAAxxxx Emergency Escape Side-Rear Windows

BMAAAEABxxxx Windshield Assy.

BMAAAEACxxxx Rear Window

BMAAAEADxxxx Side Windows

BMAAAEAExxxx Outer Frame

BMAAAEAFxxxx Brace

BMAAAEAGxxxx Hinge

BMAAAEAHxxxx Operators Side

BMAAAEAIxxxx Sash Assys.

BMAAAFxxxxxx Seat Assys.

BMAAAFAAxxxx Operator

BMAAAFABxxxx Passenger

BMAAAFACxxxx Hand Holds

BMAAAFADxxxx Partitions

BMAAAFAExxxx Stantions

BMAAAGxxxxxx Roof Hatch Assys (Vent/Emergency)

BMAAAGAAxxxx Frames

BMAAAGABxxxx Holders

BMAAAGACxxxx Spring Body's

BMAAAGADxxxx Covers

BMAAAHxxxxxx Destination Signs

BMAAAHAAxxxx Front Assy.

BMAAAHABxxxx

Side Assy.

BMAAAHACxxxx

Run Number Signs

BMAAAIxxxxxx

Operators Control Console

BMAAAJxxxxx

Miscellaneous Equipment

BMAAAJAAxxxx

Fire Extinguisher

BMAAAJABxxxx

Special Tools

BMAAAKxxxxxx

Sander Assy.

BMAAAKAAxxxx

Hopper

BMAAAKABxxxx

Filler Cap

BMAAAKACxxxx

Access Door

BMAAAKADxxxx

Pipe Assy.

BNxxxxxxxxx

Safety Equipment

BNAAxxxxxxx

Windshield Wiper-Washer Systems

BNAAAAxxxxxx

Windshield Wiper Assy.

BNAAAAAAxxxx

Motor

BNAAAAABxxxx

Motor Lever

BNAAAAACxxxx

Blade

BNAAAAADxxxx

Wiper Arm

BNAAAAAExxxx

Pivot Shaft

BNAAAAAFxxxx

Linkage Rods

BNAAAAAGxxxx

Rocker Switch

BNAAAAAHxxxx

Control Valve

BNAAAAAIxxxx

Switch Assy.

BNAAABxxxxxx

Washer Assy.

BNAAABAAxxxx

Reservoir

BNAAABABxxxx

Electric Pump

BNAAABACxxxx

Rocker Switch

BNAAABADxxxx

Lines

BNAAABAExxxx

Spray Nozzles

BNAAABAFxxxx

Jets

BNAAABAGxxxx

Valve Assy.

BNAAABAHxxxx

Diaphragm

BNAAABAIxxxx

Control Valve

BNAAABAJxxxx

Switch Assy.

BJxxxxxxxx

Suspension, Steering & Tires

BJAAxxxxxxx

Front Axle & Suspension Systems

BJAAAAxxxxxx

Steering Knuckle Assy.

BJAAAAAAxxxx

Steering Knuckle

BJAAAAABxxxx

Bushing

BJAAAAACxxxx

Knuckle Pin

BJAAAAADxxxx

Steering Arm

BJAAAAAExxxx

Axle Center

BJAAAAFxxxx

Thrust Bearing

BJAAABxxxxxx

Steering Arm Bracket Assy.

BJAAABAAxxxx

Housing

BJAAABABXXXX

Bearing Shaft

BJAAABACxxxx

Bushings-Upper/Lower

BJAAABADxxxx

End Cover

BJAAACxxxxx

Front Steering Linkage

BJAAACAAxxxx

Tie Rod

BJAAACABxxxx

Tie Rod Arms

BJAAACACxxxx

Center Tie Rod

BJAAACADxxxx

Ball Joints

BJAAACAExxxx

Drag Link

BJAAADxxxxxx

Shock Absorbers-Front/Drive &

Trailer

BJAAADAAxxxx

Drive Axle Suspension

BJAAADABxxxx

Holder Assy.

BJAAADACxxxx

Crossmember

BJAAADADxxxx

Bushings-outer/inner

BJAAAExxxxxx

Air Bag & Suspension Systems-Ft/Driver Trail Axles

BJAAAEAAxxxx

Springs

BJAAAEABxxxx

Brackets

BJAAAEACxxxx

Mounting Plates

BJAAAEADxxxx

Retainers-Upper-Loser

BJAAAEAExxxx

Sealing Plates

BJAAAEAFxxxx

Bellows

BJAAAEAGxxxx

Roll Piston

BJAAAFxxxxxx

Stabilizer Bar

BJAAAFAAxxxx

Bushings

BJAAAFABxxxx

Links

BJAAAGxxxxxx

Height Control Valves

BJAAAGAAxxxx

Housing

BJAAAGABxxxx Valve Mechanism

BJAAAGACxxxx Shaft Assy.

BJAAAHxxxxxx Upper Control Arms

BJAAAHAAxxxx Mounting Rod

BJAAAHABxxxx Bushings

BJAAAIxxxxxx King Pin Housing

BJAAAIAAxxxx King Pin

BJAAAJxxxxxx Lower Control Arms

BJAAAJAAxxxx Bushing-Large-Small

BJAAAJABxxxx Mounting Rod

BJAAAKxxxxxx Trailer Steering Linkage

BJAAAKAAxxxx Turntable Drag Links-Bus/Trailer

BJAAAKABxxxx Turntable

BJAAAKACxxxx Frame Console

BJAAAKADxxxx Coupling

BJAAAKAExxxx Control Lever

BJAAAKAFxxxx Drag Links

BJAAAKAGxxxx Reversing Lever

BJAAAKAHxxxx Center Tie Rod

BJAAAKAIxxxx Tie Rods

BJAAAKAJxxxx Steering Arm

BJAAAKAKxxxx Bearing Assy.

BJAAALxxxxxx Steerable Trailer Axle Assys.

BJAAALAAxxxx Steering Knuckles

BJAAALABxxxx King Pins

BJAAALACxxxx Bushings

BJAAALADxxxx Mounting Base-Brackets

BJAAALAExxxx Traverse Arm-Upper/Lower

BJAAALAFxxxx Traction Rods

BJAAAMxxxxxx Rear Axle Assy.

BJAAAMAAxxxx Axle Shaft

BJAAAMABxxxx Housing

BJAAAMACxxxx Carrier

BJAAAMADxxxx Bushings

BJAAAMAExxxx Seals

BJAAANxxxxxx Rear Suspension

BJAAANAAxxxx Air Bags

BJAAANABxxxx Shock Absorbers

BJAAANACxxxx Traverse Rod

BJAAANADxxxx Height Control Valve

BJAAAPxxxxxx Kneeling Suspension System

BJAAAPAAxxxx Check Valves

BJAAAPABxxxx Quick Release Valve

BJAAAPACxxxx Isolation Valve

BJAAAPADxxxx Kneel-Up/Down Valves

BJAAAPAExxxx Air Control Valve

BJAAAPAFxxxx Supply Cut Off

BJAAAPAGxxxx Down Limit Micro Switch

BJAAAPAHxxxx Brake Interlock Micro Switch

BJAAAQxxxxxx Suspension Air System

BJAAAOAAxxxx Main Air Tank

BJAAAQABxxxx Air Strainer

BJAAAQACxxxx Suspension Air Tank

BJAAAQADxxxx Air Manifold

BJAAARxxxxxx Wheels & Tire Assys.

BJAAARAAxxxx Steerable Axle Hub Assys.

BJAAARABxxxx Wheel Split Rim

BJAAARACxxxx Bearings

BJAAARADxxxx Hub

BJAAASxxxxxx Drive Wheel Hub Assys.

BJAAASAAxxxx Wheel Split Rim

BJAAASABxxxx Axle Casing

BJAAASACxxxx Hub/Planet Gear Assy.

BJAAATxxxxxx Tires-Front/Rear

BJAAATAAxxxx Tubeless

BJAAATABxxxx Tube

BJAAATACxxxx Studs

BJAAATADxxxx Nuts

BJAAAUxxxxxx Power Steering Assys.

BJAAAUAAxxxx Pump-Hydraulic

BJAAAUABxxxx Body

BJAAAUACxxxx Shaft

BJAAAUADxxxx Bearing

BJAAAUAExxxx Manifold

BJAAAUAFxxxx Cover

BJAAAVxxxxxx Relief Valve Assy.

BJAAAVAAxxxx Relief Valve

BJAAAVABxxxx Spring

BJAAAVACxxxx Pressure Plate

BJAAAVADxxxx Pump Ring

BJAAAVAExxxx Rotor

BJAAAWxxxx Reservoir Filter Assys.

BJAAAWAAxxxx Reservoir

BJAAAWABxxxx Filter

BJAAAWACxxxx Element Cartridge

BJAAAWADxxxx Screen

BJAAAWAExxxx Shell

BJAAAWAFxxxx Dipstick

BJAAAWAGxxxx Filler Cap

BJAAAWAHxxxx Sight Glass

BJAAAXxxxxxx Steering Gear Assy.

BJAAAXAAxxxx Plunger

BJAAAXABxxxx Actuator Shaft

BJAAAXACxxxx Bearing

BJAAAXADxxxx Piston

BJAAAXAExxxx Valve Assy.

BJAAAXAFxxxx Reversing Spring & Valve

BJAAAXAGxxxx Output Shaft

BJAAAXAHxxxx Gear

BJAAAXAIxxxx Oil Gear

BJAAAXAJxxxx Pitman Arm

BJAAAYxxxxxx Steering Column Assy.

BJAAAYAAxxxx Steering Wheel

BJAAAYABxxxx Bearing

BJAAAYACxxxx Switch Lever

BJAAAYADxxxx Horn Contact Roller Assy.

BJAAAYAExxxx Jacket Tube

BJAAAYAFxxxx Spring

BJAAAYAGxxxx Wheel Tube

BJAAAYAHxxxx Coupling Shell

BJAAAYAIxxxx Rubber Shield

BJAAAZxxxxxx Steering Gear Transfer Box

BJAAAZAAxxxx Shaft, Vertical

BJAAAZABxxxx Thrust Bearing

BJAAAZACxxxx Gear, Vertical - Horizontal

BJAAAZADxxxx Bearing-Needle

BKxxxxxxxxx Drive Train

BKAAxxxxxxxx Transmissions - Manual-Auto

BKAAAAxxxxxx Manual Transmission

BKAAAAAAxxxx Housing

BKAAAAABxxxx lst Gears

BKAAAAACxxxx 2nd Gears

BKAAAAADxxxx 3rd Gears

BKAAAAAExxxx Neutral Gear

BKAAAAAFxxxx Reverse

BKAAAAAGxxxx Gears

BKAAAAAHxxxx Bearings

BKAAAAAIxxxx Seals

BKAAAAAJxxxx Oil Filter Assy.

BKAAAAAKxxxx Pressure Switch

BKAAABxxxxxx Shifter Fork Rod Assy.

BKAAABAAxxxx Shifter Forks

BKAAABABxxxx Linkages

BKAAABACxxxx Gear Shift

BKAAACxxxxxx Clutch Assy.

BKAAACAAxxxx Pedal Assy.

BKAAACABxxxx Linkages

BKAAACACxxxx Housing Assy.

BKAAACADxxxx Pressure Plate Assy.

BKAAACAExxxx Cover Plate

BKAAACAFxxxx Springs

BKAAACAGxxxx Throw Out Bearing

BKAAACAHxxxx Fork-Shifter Assy.

BKAAADxxxxxx Automatic Transmission

BKAAADAAxxxx Governor

BKAAADABxxxx Hydraulic Drive

BKAAADACxxxx Direct Drive

BKAAADADxxxx Clutch Assy.

BKAAADAExxxx Over Drive

BKAAADAFxxxx Radial Power Converter

BKAAADAGxxxx Oil Filter

BKAAADAHxxxx Heat Exchanger

BKAAADAIxxxx Controls

BKAAADAJxxxx Shift Assy.

BKAAADAKxxxx Switch Assys.

BKAAADALxxxx Gear 1st

BKAAADAMxxxx Gear 2nd

BKAAADANxxxx Gear 3rd

BKAAADAPxxxx Gear Neutral

BKAAADAQxxxx Gear Reverse

BKAAADARxxxx Torque Converter

BKAAADASxxxx Modulator

BKAAADATxxxx Valves Up-Down Shift

BKAAADAUxxxx Clutches

BKAAADAVxxxx Bearings

BKAAAExxxxxx Air Shift Components

BKAAAFxxxxxx Solenoid Shift Components

BKAAAFAAxxxx Piston

BKAAAFABxxxx Return Spring

BKAAAFACxxxx Rachet Slide

BKAAAFADxxxx Stop Plug

BKAAAFAExxxx Shifter Lever

BKAAAFAFxxxx Linkages

BKABxxxxxxxx Differential-Planetary Drive Assy.

BKABAAxxxxxx Planetary Drive

BKABAAAAxxxx Planet Gears

BKABAAABxxxx Pins

BKABAAACxxxx Bearings, Needle

BKABAAADxxxx Housing, Hub Bell

BKABAAAExxxx Hollow Wheel-Outer Wheel

BKABAAAFxxxx Sun Gear

BKABAAAGxxxx Planet Gear Carrier

BKABAAAHxxxx Outer Thrust Washers Sun Gear

BKABAAAIxxxx End Cover-Bell Housing

BKABABxxxxxx Drive Shaft Assy.

BKABABAAxxxx Bearing

BKABABABxxxx Journal

BKABABACxxxx Slip Joint

Propeller Shaft

Universal Joint

Yoke Assy.

Protecting Sleeve

Slip Joint

Journal

Needle Bearing Assy.

BKABADADxxxx Differential Assy.

Ring Gear-Case

Pinion Cage

Drive Pinion

Bearings-Taper/Rooler-Flange End

Spacer Bushing

Ring Gear

Differential Bearing

Differential Spider

Upper Shaft Gear

BKABABAExxxx

Lower Trust Washer
Oil Slinger
Adjust Ring

APPENDIX A-2

GMC-ADB

DRIVE TRAIN SYSTEM

TRANSMISSION

Neutral Start Switch

Governor Valve

Power Take-Off Shaft

Converter Housing

Transmission Housing

Bevel Gear

Tachometer Drive

Oil Filter

Oil Cooler

First Clutch

Second Clutch

Third Clutch

Reverse

Shift Signal Valve

Modulator Valve

Main Pressure Regulator Valve

Control Valve

Oil Pump

Pneumatic Modulator

Transmission Shift Control

Forward Control

Shift Linkage

Flexible Coupling

Flywheel

Propeller Shaft Assembly

Universal Joint Flange (Trans.)

Bearing Assembly (needle)

Lock Strap

Journal

Slip Joint Yoke

Propeller Shaft

Universal Joint Flange (Diff.)

FUEL SUPPLY SYSTEM

Fuel Tank

Pressure Relief Valve

Supply and Return Lines

Check Valve

Fuel Pump

Muffler (8 cylinder)

Manifold Inlet Pipe

Exhaust Outlet Pipe

Tail Pipe

SUSPENSION, STEERING, AND TIRES SYSTEM

Front Axle and Suspension

Shock Absorber

Retainer

Outer Bushing

Inner Bushing

Shock Absorber

Stabilizer Bar

Bushing Retiners

Stabilizer Bar

Retainer Clamps

Retainer

Bushing

Link

Upper Control Arm Assembly

Bushings

Upper Control Arm

Mounting Rod

Height Control Valve

King Pin Housing

King Pin

Lower Control Arm Assembly

Large Bushing

Lower Control Arm

Mounting Rod

Small Bushing

Air Spring

Upper Retainer

Bumper

Lower Retainer

Flexible Member

Back Up Plate

Wheel Spindle Assembly

Upper Wheel Spindle Bushings

Thrust Bearing

Lower Wheel Spindle Bushing

Steering Arm

Steering Arm Key

Air Strainer

Check Valve

Pressure Protection Valve

Height Control Valve

Kneeling System

Height Control Valve Bypass Solenoid

Exhaust Control Solenoid

Door Sensitive Edge Switch

Bellows Control Solenoid

Kneel Sense Switch

Kneel Relay Coil

Kneel Relay Contacts CR-1

Kneel Relay Contacts CR-2

Kneel Switch

Kneel Apparatus and Cover Assembly

Rear Axle and Suspension

Differential Carrier

Parking Brake Drum

Propeller Shaft Yoke

Parking Brake Control Rod

Parking Brake Air Chamger

Differential Assembly

Side Gears

Spider

Thrust Washer

Bearing Cones (Differential)

Pinion and Cage Assembly

Pinion Cage

Pinion Bearing Cone (Outer)

Pinion Bearing Spacer

Pinion Bearing Cone (Inner)

Drive Pinion

Pinion Bearing

Bearing Retainer Ring

Differential Bearing Cup

Differential Pinion

Axle Shaft and Housing

Axle Housing

Axle Shaft

Drive Flange

Height Control Valve Mounting

Radius Rod Anchor Plate

Link

Height Control Valve

Overtravel Lever

Valve Link Bracket

Rear Air Spring

Flexible Member

Upper Retainer

Piston Boot

Piston

Lower Retainer

Radius Rod

Bushing

Radius Rod

Anchor Plates

Rear Shock Absorber

Retainer

Shock Absorber

Bushings

Suspension Air System

Main Air Tank

Air Strainer

Suspension Air Tank

Air Manifold

H.C.V. Bypass Sclenoid

Steering System

Power Steering Pump

Pump Flow Control and Relief Valve

Power Steering Reservoir and Filter

Steering Column and Shaft

Steering Wheel

Extension

Bearing Plate

Column Housing

Lower Shaft

Upper Bearing

Lower Bearing

Lower Universal Joint Yoke

Power Steering Gear

Steering Gear

Pitman Arm

Drag Link

Relief Valve Plunger (Right Turn)

Relief Valve Plunger (Left Turn)

Bearing

Actuating Piston

Shaft Bearing

Relief Valve

Linkage (Left and Right)

Relay Rod

Steering Arm

Tie Rods

End Socket

Wheels

Discs

Studs

Rim

Tire

ELECTRICAL SYSTEMS

Miscellaneous Electrical

Speedometer

Telltale Panel

Left Hand Switch Panel

Right Hand Switch Panel

Driver's Compartment Cir. Break. Panel

Connectors

Driver's Apparatus Panel

24V Engine Run Relay

Kneel Relay

Brake Interlock Relay

Generator "R" Terminal Relay (A/C)

12V Engine Run Relay

Heat Control Relay

Interior Lamps Relay

Horn Relay

Tone Generator

CN-02B Body to Trunk Harness Conn.

CN-11 Trunk to Front End Harness Conn.

CN-02A Body to Trunk Harness Conn.

CN-08A Chassis to Trunk Harness Conn.

CN-15 Harness Connector

CN-24 Harness Connector

CN-25 Harness Connector

CN-14B Panel Harness

CN-14A Panel Harness

Rear Electrical Apparatus Panel

Blower Motor C.B. (90 Amp)

Circuit Breakers

Blower Motor Harness (CN-26)

Engine and A/C Harness (CN-23)

Body Harness (CN-22)

Generator Stop Relay

A/C Clutch Relay

Blower Interlock Relay

Water Pump Relay
Starter Control Relay
Low Coolant Indicator
Connectors

CN-9 Trunk to Inst. Panel
CN-18 Body to Right Hand Roof
CN-18 Body to Right Hand Roof
CN-19 Body to Rear Closure Door
CN-20 Body to Rear Compartment
CN-21 Body to Engine

Batteries Compartment

Batteries

24V Disconnect SW

12V Disconnect SW

24V Regulator

12V (90 Amp) C.B.

24V (70 Amp) C.B.

Battery to Engine Harness Assy.

Battery, Regulator and Charger Harness

Assy.

Lighting

Exterior Lighting

Headlights Assembly

Headlamp Type 1A

Front Turn Signal Lamp

Harness and Connector

Headlamp (Upper) Type 2A

Stop, Tail & Directional Assy.

Stop Light

Tail Light

Wiring Harness and Connector

Connector

Resistor

Turn Signal Lamp

Reflex Lamp Assy.

Backup Light

Stop Light Switch

Directional Switches

Directional & Hazard Flasher

Interior Lighting

Gague and Panel Lights

Tell-Tale Lights

Driver and Fare Box Lamp

Front and Rear Step Lamps

Engine Compartment Lights

Fluorescent Lighting System

BRAKES SYSTEM

Front and Rear Brake Assembly

Brake Lining

Shoe Assembly

Pin Actuator Plunger Return Spring Adjusting Pawl Wedge Assembly Adjusting Sleeve (Actuator) Roller Cage Return Spring (Wedge) Plunger Housing Anchor Plunger Cast Spider (Housing) Brake Air Chamger Assy. Non Pressure Housing Diaphragm Plate and Push Rod Diaphragm Pressure Housing Front Brake Drum Hub Inner Bearing Outer Bearing Spider Service Brake Assembly

Treadle

Boot

Dual Valve

Parking Brake

Camshaft

Roller

Roller Pin

Brake Lining

Brake Shoe

Brake Shoe Return Spring

Anchor Pin

Brake Chamger

Push Rod

Control Valve

Pressure Switch

Air Brake Valves and Reservoirs

Air Strainter

Air Reservoirs Tanks

Low Pressure Switch

Check Valve

Safety Valve

Air Dryer

Purge Tank

Purge Control

Pressure Regulator Valve

Double Check Valve

Syncro Valve Assy.

Inversion Valve Assy.

Brake Light Switch Assy.

Brake Interlock Solenoid Assy.

Quick Release Valve Assy.

Reducing Bushing

Brake Relay Valve

Spring Brake Chamger

Housing

Push Rod Assy.

Diaphragm

Compression Spring

Pressure Cap

BODY AND STRUCTURE SYSTEMS

Front End Framing

Header Reinforcement

Windshield Piller

Driver's Window Panel

Front Floor Support Panel

Post-Bulkhead Reinforcement

Longitudinal Beams

Front Door Floor Support

Front Suspension Understructure

Front Suspension Frame Assembly

Belt Inner Panel

Lower Bulkhead Reinforcement

Upper Bulkhead Reinforcement

Floor Support Beam

Beam Support

Passenger Module

Bulkheads

Longitudinal Beams

Belt Inner Panels

Side Window Framing (Fencing)

Roof Panel

Outer Roof Panel

Inner Center Panel

Inner Side Panel

Window Header Panel

Air Tank

Exit Door Understructure

Rear Stepwell Support

Rear Suspension Bulkhead Reinforcement

Rear Center Beams

Front and Rear Braces

Beam Support

Rear Suspension Understructure

Radius Rod Support Plates

Engine Bulkhead

Beam Supports

Air Spring Adapter Longitudial Beams

Rear End

Engine Compartment Bulkhead

Seat Back Riser Panels

Side Closure Panels

Outer Panel

Seat Upper Bulkhead Panel

Seat Lower Bulkhead Panel

Access Hole Panel (Cover)

Riser Access Hole Cover

Rear Upper Belt

Side Posts

Roof Center Rear Panel

Center Lower Panel

Center Belt Closure Plate

DOOR AND DOOR CONTROLS

Front Door

Panels

Bearings

Panel Shaft Assemblies

Upper Door Panel Bracket Assemblies

Lower Door Panel Bracket Assemblies

Lower Shaft Support Bracket Assemblies

Entrance Door Guide Arm Roof Bracket

Entrance Door Seal Assemblies
Entrance Door Guide Arm Assembly

Exit Door

Exit Door Guide Arm Assemblies

Exit Door Upper Bracket Assembly

Exit Door Guide Arm Roof Bracket

Upper Exit Door Panel Bracket Assemblies

Exit Door Panel Bracket Assemblies

Lower Door Panel Bracket Assemblies

Bearings

Lower Shaft Support Bracket Assemblies

Door Control

Door Master Switch

Door Controller

Front Door Switch

Rear Door Switch

Limit switches

Brake Interlock Relay

Sensitive Edge

Magnet Valve

Airline Regulator Valve

Air Cutoff Dump Valve

Emergency Release Valve

Sensitive Edge Switch

Front Door Engine Assembly

Air Supply Line

Air Exhaust Line

Engine Push Rod

Door Lever Wedge

Engine Control Arm

Front Door Engine

Rear Door Engine Assembly

Rear Door Engine

Relays

Air Supply Line

Air Exhaust Line

Push Rod

Left Control Arm

Right Control Arm

AIR COMFORT SYSTEM

Heat & Air Conditioning Control Panel (Control Box)

Control Cable

Air Pressure Regulator Valve

RR2-Capacity Relay

Water Pump Relay Switch PE-1

Thermostat Outside Air Change Over Switch

Outside Air Thermostat

Capillary Tube and Sensing Bulb

Air Tubing

Change-Over Solenoid EP2

Floor Heat Solenoid EP3

Return Air Damper Solenoid EP5

System Solenoid EP1

Air Tubing

Heating System Water Circulation

Surge Tank

Circulator Pump

Water Modulator Valve

Main Heater Core

Floor Discharge Water Flow Control Valve

Side-Wall Heater

Check Valve

Intake Air Filter

Blower Motors

Evaporator Coils

Air Distribution Ducts

Driver's Heater

Blower Motor

Resistor

Coil

Filter

Return Air Filter

Floor Blower Motors

Booster Blower Fan and Motor

Return Air Dampers

Return Air Thermostats

Air Conditioning Refrigerant System

Electrical Control Units

Climate Control Switch

Air Conditioning Clutch Relay

Refrigerant Hi-Lo Pressure Switch

Air Conditioning Oil Pressure Switch

Liquid Refrigerant Receiver Tank

Heat Exchanger

Dehydrator-Strainer

Refrigerant Expansion Valve

Evaporator

Air Filters

Evaporator Blowers and Motors

Connectors and Lines

Condenser

Heating and Air Conditioning Controls

Defroster Switch

Booster Blower Switch

Blower Interlock Relay

Heat Control Relay

A/C Generator "R" Terminal Relay

A/C Blower Motor Magnetic Switch

Blower Circuit Breaker

Circuit Breakers

Brake Interlock Relay

Engine Run Relay

12V Engine Run Relay

Horn Relay

Control System Air Supply Air Filter

Heating and Air Conditioning Control

Thermostat

Return Air Shutter Assembly

Receiver

Service Valves

Air Conditioning Compressor, Drive

Shut-Off Valves

Drive Belt

Compressor Cylinder Head

Clutch Coil, Rilley and Flywheel

Suction and Discharge Valve

ENGINE SYSTEM

Air Compressor and Governor

Air Compressor Drive

Air Compressor Assembly

Discharge Valve

Discharge Valve Spring

Inlet Valve Spring

Cylinder Head

Unloader Plunger

Unloader Spring

Cylinder Block

Crank Shaft Rear Bearing

Connecting Rod Bearing

Crank Shaft

Crankcase

Connecting Rod

Unloader Piston

Bushing

Piston

Piston Rings

Piston Pin

Unloader Plunger Guide

Connecting Rod Bushing

Compression Rings

Air Compressor Governor (D-2)

Engine Electrical

Generator Drive

End Frame

Drive Gear

Balance Shaft Gear

Driven Gear

Adapter

Rotor Shaft

12 Volt Charge Assy.

Heat Sink

Choke

Circuit Breaker

12 Volt Regulator

Diode End Frame

Diodes

12 Volt Charger

24 Volt Regulator

Starting System

Engine Stop Air Cylinder

Engine Stop Solenoid Valve

Emergency Stop Solenoid

Drive Clutch Assembly

6 Cylinder Diesel

Radiator

Surge Tank

Cradle Hanger

Solenoid

Water Filter

Fuel Pressure Switch

Fuel Filters

Bumper Mounting Brackets

Starter

Exhaust

Engine By-Pass Oil Filter

Generator

Engine Thermostat Housing

Fluid Drive Fan

Cradle to Bulkhead Mounting Bracket

Muffler

8 Cylinder Diesel

Radiator

Radiator Surge Tank
Throttle Slave Cylinder
Water Supply Shut-Off Valve
Engine Control Panel
Air Cleaner
Primary Fuel Filter
Fuel Pressure Switch
Secondary Fuel Filter

Starter

Bumper Mounting Brackets

Fluid Drive Fan

Engine By-Pass Oil Filter

Generator

Power Steering Reservoir

Radiator Inlet Pipe
Full-Flow Engine Oil Filter
Engine By-Pass Oil Filter

Compartment Lamp Switch

Engine Control Switch

Rear Start Switch

Engine Oil Pressure Switch

Engine Oil Pressure Manifold

A/C, Engine Oil Pressure Switch

Engine Oil Pressure Gauge

Hot Engine Temp. Switch

Blower Control 120°F Switch

Water Filter

Shut Off Valves

Hose Lines

Air Cleaner and Silencer

Air Cleaner ASM

Boot

Vacuator Valve

Element

Teflon Hoses

Fluid Fan Drive Assembly

Drive Torus

Seal Bushing

Driven Gear

Bearings

Ring

Pilot Ring

Drive Hub

Drive Cone

Coupling

Driving Gear

Bearing (Driving Gear)

Gear

Carrier

Bearing (shaft)

Shaft

Driven Hub

Seal Bushing

Fluid Control Valve (Vernatherm)

Override Solenoid Valve

Throttle Control System

Throttle Control Assembly

Treadle Valve Assembly

Fast Idle Solenoid Valve

Fast Idle Air Cylinder

Fast Idle Limiting Air Cylinder

APPENDIX A-3

GMC-NLC

Doors and Door Controls System

Leaf Assy. LHS

Leaf Assy. RHS

Glass Upper

Glass Lower

Guide Channel

Guide Roller

Door Upper Seal

Bearing Assy.

Door Shaft Assy. LHS

Door Shaft Assy. RHS

Shaft Upper Pivot Bracket

Door Operating Mechanism

Door Engine Assy.

Cylinder

Piston Rod

Metering Screw Open

Metering Screw Close

Switch Assy.

Connecting Rod Front

Connecting Rod Rear

Lever Front

Lever Rear

Lever Idler

Lever Idler Support

Doors Push Type Rear

Leaf Assy. LHS

Glass Upper

Glass Lower

Door Check Cylinder Rear

Check Cylinder Assy.

Cylinder Piston Rod

Closing Speed Control Fitting

Unlock Solenoid Assy.

Return Spring

Door Switch Relay Assy.

Connecting Rod Front

Connecting Rod Rear

Rear Door Switch Assy.

Emergency Manual Unlock Rod

Emergency Manual Unlock Lever

Lever Cylinder Check

Lever Door Front

Lever Door Rear

Lever Connecting Rod Idler

Lever Cam

Air Electric Operated Push Type Rear Doors

Speed Control Valves

Rectifiers

Air Supply Control Magnet Valve

Switch Tell Tale

Relays

Air Electric Operated Folding Type Doors Rear

Sensitive Edge Selenoid

Cam Switch Micro

Door Sen Edge Bell

Interupter Switch Micro

Wiring Junction Block

Full Air Operated Folding Type Rear Doors (two types)

Valve Emergency Escape Air

Door Controls

Air Shut Off Valve

Air Strainer

Door Control Valve

Door Air Pressure Regulator

Two Way Check Valve

Interlocks

Brake Interlocks

Door Switches

Double Check Valve

Magnet Valve Interlock

Accelerator Interlock
Interlock Air Pressure Regulator Valve
Accelerator Interlock Synchro Valve
Accelerator Inversion Valve

Crowd Gate Mechanism

Engine

Lock Release Assy.

Idler Lever Assy.

Rod Assy.

Gate

Supports

Bearings

AIR COMFORT SYSTEM

Heater and Ventilation Systems

Motor Assy. and Water Booster Pump

Motor

Armature Assy.

Stator Assy.

Brush and Spring Assy.

Bearings

Pump Body

Impeller

Control Valves

Grad U Stat

Water Modulation Valve

Air Pressure Regulator Valve

Temp Range Control

Underfloor Heating and Cooling Compartment (No AC)

Heater Core Unit

Blower Motor Assy.

Motor

Armature

Brush and Holder Assy.

Bearings

Blower Wheels

Filters

Defroster Heater

Blower Motor Assy.

Motor

Wheel Fan

Shroud Assy.

Heater Core Unit

Filter

Heater Supply Line Filter Screen

Ventilation System

Operator Window

Passenger Windows

Outside Air Inlet Damper

Filter

Windshield Intake Vents

Outside Air Intake Vent (Acc-Pedal)

Heating Controls

Control Panel

Control Box

Water Solenoid Valve

Mercury Tube Thermostat

Bimetal Thermostat Assy.

Air Conditioning System

Compressor

Housing

Piston

Rings

Connecting Rod

Crankshaft

Bearings

Unloader Mechanism

Condenser Coil

Fan Cooling (Six Blade)

Motor

Rotor Shaft Assy.

Brush Assy.

Bearings

Receiver Refridgerant

Coil Evaporator

Refrigerant Expansion Valve

Refrigerant Heat Exchanger

Dehydrator Strainer

Controls Air Conditioner

Control Panel AC

Clutch Relay AC

Oil Pressure Switch Engine

Clutch Control Air Pressure Switch

Compressor Dirve Clutch Air Solenoid Valve

Refrigerant Discharge Valve Assy.

Suction Valve Assy.

Compressor Clutch Unit

Clutch Control Air Cylinder Assy.

Air Cylinder Air Strainer Assy.

Voltage Regulator Assy.

Hi Lo Refrigerant Pressure Switch

AC Control Relay

Generator Assy. (AC - Cond. Fan Drive)

Generator

Rotor Assy.

Rectifier Mount Assy.

Brush Spring Assy.

Bearings

Pulley Belt

ELECTRICAL SYSTEM

Control Panel Driver

Control Panel Junctions (Circuit Breakers and Electrical Apparatus)
Engine Compartment Apparatus Box
Regulator and Blower Control Panel
Entrance Door Junction Panel

Exit Door Junction Panel
Flasher and Relay Junction Panel
Wheel Lock Control Junction Panel

Miscellaneous Circuit Breakers

Tell Tale Alarm System (Warning System)

Alarm Buzzer and Rectifier Assy.

Emergency Door Buzzer

Passenger Signal Buzzer and Chime

Engine Stop Time Delay Relay System

Relays

Resistors

Rectifiers

Electric Horns

Electric Speedometer

Battery System

Compartment

Battery

Cables

Starting System

Starter

Armature

Brush Holder Assy.

Clutch Assy.

Solenoid Switch

Control Relay

Switches

Circuit Breakers

Generating System

Generator (Oil Cooled, Alternator)

Rotor Assy.

Stator Assy.

Stationary Field

Diodes

Bearings

Generator Control Relay

Regulator

Diodes

Condensors

Resistors

Transistors

Lighting System

Exterior Lights

Headlight Assy.

Sealed Beam Unit

Dimmer Switch

Stop-Tail Light System (Parking)

Stop Light Switches

Parking Brake Stop Lamp Switch

License Plate Light

Directional Signals System Standard

Directional Signals System Foot Operated

Hazard Warning System

Back Up Lights System

Marker Lights

Interior Lights

Gauge and Tell Tale Lights

Destination Sign Lights

Engine Compartment

Emergency Door Lights

Dome Lights

Fluorescent Lights

Stepwell Lights

Powerplant

ENGINE SYSTEM

Diesel Engine 8 Cylinder

Diesel Engine 6 Cylinder

Cylinder Block

Cylinder Head

Crankshaft

Bearings Main

Pulley

Vibration Damper

Flywheel

Piston

Rings

Wrist Pins

Connecting Rod

Bearing Cap

Camshaft

Bearings

Gear Train Assy. (Gears Off Cam, Crank, etc.)

Accessory Dirve

Valve Operating Mechanism

Rocker Arm Assy.

Push Rods

Valves

Guides

Springs

Cover Assy.

Diesel Engine Accessories

Oil Pressure Gauge

Low Oil Pressure Switch

Solenoids

Emergency Stop

Engine Stop Solenoid Valve

Engine Fast Idle Solenoid Valve

Engine Control Air Cylinder

Engine Stop Air Cylinder

Fast Idle Limiting Air Cylinder

Fast Idle Air Cylinder

Engine Mounts

Cushion Mount Assy's. Front

Cushion Assy.

Bulkhead Bracket

Mount Bolts

Mounts Rear

Cradle Hangers

Stabilizer Rod Assy.

Engine Brake Mechanism

Supply Housing

Exhaust Valve Bridge

Slave Piston

Solenoid Valve

Drone Housings

Control Valve

Master Piston Fork Assy.

Master Piston

Slave Piston

Engine Brake Micro Switch

Buffer Switch Screw Switch

Splitter Control Valve Micro Switch

Exhaust System

Muffler

Pipes

Exhaust Diffuser

Cooling System

Surge Tank

Filler Cap

Sight Gauge

Pressure Relief Valve

Piping

Filter Water

Element

Radiator

Shutter Assy.

Radiator Shutterstat

Shutter Air Cylinder

Air Filter

Water Pump

Impeller Assy.

Shaft

Seals

Thermostat Outlet Housing Assy.

Housing

Thermostats

Gasket

Cover

Water Temperature Over Heat Switch

Temperature Gauge and Sending Unit (Alarm and Signal)

Hydraulic Fluid Drive Fan Assy. (with A/C)

Driven Torus Housing

Driven Torus

Driving Torus

Driving Torus Housing

Damper

Coupling

Fan Drive Housing

Drive Shaft

Gear and Pinion

Retainer

Drive Pulley

Fan

Control Valve Hydraulic Fan

Brake Systems

Air Compressor Assy.

Cylinder Block

Cylinder Head

Valves Discharge

Valves Inlet

Springs Valve

Valve Seats

Valve Guides

Pistons

Rings Compression

Wrist Pins

Connecting Rods

Bearings Rod

Caps Rod

Crankshaft

Bearings

Crankcase

Cover

D2 Governor Assy.

Body

Piston Assy.

Valve

Cover

Supply Reservoir

Safety Valve

Drain Cock

Primary Reservoir

Secondary Reservoir

Parking Reservoir

Check Valve

Air Gauge

Low Pressure Indicator Switch

Application Valves

TR3 Inversion Valves

Brake Modulation Valve

Calbes & Connectors

Muffler Assy.

Stand By Valve

Press Regulator Valve

Magnet Valve

Double Check Valve

Stop Light Switch

Brake Chamber

DD3 Brake Chamber

Servo Interlock

SVSI - Synchro Valve

Park Control Valve

Parking Relay Valve

Lock Port Tee

Parking Control Valve

Wheel Lock Control

R8 Relay Valve

Brake Components

Air Lines - Plumbing

Air Line Filler Valve

Air Strainer

Brake Chambers Front

Pressure Plate

Diaphragm

Return Spring

Pushrod

Brake Actuator

Aux. Press Plate

Aux. Diaphragm

Return Spring

Push Rod

Mechanical Release Yoke

Slack Adjusters FR & RE

Worm Shaft

Gear

Cover Plate

Brake Shoes and Linings

Drums

Brake Shoe and Linings Assy.

Anchor Pins

Lock Plate

Rollers

Camshaft

Brake Spider

Rear Brake Drum Vibration Dampers

Alcohol Evaporator

Check Valve

Moisture Ejector Valve

Remote Control Drain Sys.

Control Valve Air

Wheel Sensors

Cables

Parking Brake

Control lever

Control Linkage

Adjustable Lever

FUEL SYSTEM

Fuel Tank

Filler Cap

Vent Line

Anti Spill Valve

Press Relief Valve

Lever Control Valve

Fuel Level Sending Unit

Air Intake

Air Cleaner

Element

Restriction Indicator

Primary-Secondary Fuel Filters

Shells

Elements

Drain Cocks

Fuel Pump (No Brake Down)

Supply Lines

Return Lines

Air Controlled Throttle

Treadle

Control Valve

Throttle Control Assy.

BODY AND STRUCTURES SYSTEM

Frame and Under Carriage Structures

Shell Exterior

Shell Interior

Panels

Ceiling

Sides

Floor

Front

Rear

Covering Floor

Insulation

Windows

Long Side Pass

Emergency Escape Hatch

Driver Sliding Window

Windshield

Rear Windows

Seats

Operator Seat

Seats Passenger

Handholds

Stantions

Destination Sign

Front

Side

Run Number Signs

Miscellaneous Equipment

Fire Extinguisher

SAFETY EQUIPMENT

Wiper/Washer System

Motors

Wiper Blades

Control Valve

Washer

Reservoir

Valve Assy.

Diaphragm

Control Valve

SUSPENSION-STEERING & TIRES SYSTEM

FR-RE-Suspension Sys.

Jack Pad

Radius Rods Up/Lwr/Lateral

Height Control Valve

Bellows Assys.

Retainer Plates

Piston

Suspension Support

Shock Absorber

Rear Suspension Stabilizer

Air Strainer

Check Valve

Pressure Protection Valve

Steering Sys.

Wheel

Column

Support Flange

Bevel Gear

Propeller Shaft

Universal Joint

Steering Gear

Axle Assy. Front

Bearing

Steering Knuckle

King Pin

Bushings

Cover

Hubs & Seals

Tie Rod Assy.

Tie Rod

Drag Link

Drag Link Eng

Steering Arm

Rear Axle Assy.

Shaft Flange

Shaft

Bearings

Hubs & Seals

Power Steering Sys.

Pump Hydraulic

Pump Body

Pump Shaft

Bearing

Manifold

Cover

Reservoir and Filter

Shell Assy.

Filter Screen & Washer Assy.

Element Cartridge

Filler Cap

Dipstick

Sight Glass

Power Steering Gear Assy.

Housing Cover

Housing

Output Shaft

Bearings

Piston

Actuating Shaft and Bearing

Actuating Valve

Bearing Cap

Hoses

Wheel & Tire Assy.

Wheels

Wheel Studs & Nuts

Tires

Tubeless

Tube

Drive Train System

Transmission Assys.

Manual Assy.

Gears

Bearings

Seals

Oil Filter & Pressure Switch

Controls

Shifter Housing

Reverse Solenoid & Linkage

Oil Pump & Drive Coupling

Clutch Assy.

Housing

Pressure Plate Assy.

Cover Plate

Bearing, Release

Controls - Clutch

Foot Pedal

Lever

Linkages

Transmissions - Auto

Governor

Hydraulic Drive

Direct Drive

Clutch Assy.

Over Drive

Radial Power Converter

Oil Filter

Heat Exchanger

Controls

Shift Assy.

Switch Assys.

Air Shift Components

Solenoid Shift Components

Propeller Shaft Assy.

Universal Joint Flanges - Trans/Differential

Bearings - Needle

Differential Assy.

Side Gears

Pinion Drive

Bearings

Seals

APPENDIX A-4

FLX-ADB

Doors and Door Controls System

Front Door Frame

Front Door Header Cover & Panel Assy.

Front Door Assy. & Actuating Mechanism

Front Door Rear Passenger Assist Stanchion

Emergency Door Open Assy.

Curbside Front Window

Curbside Front Side-Facing Seat

Front Door Post Closeout

Front Stepwell

Front Door Trim Skirt

Front Mechanical Package

Front Wall Frame Assy.

Rear Door Frame

Door Assemblies and Controls

Entrance Door

Center Panels

Outer Panels

Door Control Level

Exit Door

Panels

Rear Door Switch

Master Door Switch

Entrance Door Operating Equipment

Stepwell Light Switch

Door Tie Rods

Door Open Switch

Door Open Solenoid

Air Inlet

Teeter Lever

Door Engine

Exhaust Valve

Harness Disconnect

Air Exhaust

Emergency Door Switch

Exit Door Operating Equipment

Emergency Release Cable

Closing Speed Screw

Teeter Lever

Lock Pawl

Spring

Cylinder Assy.

Door Lock Switch

Lock Pawl Switch

Air Comfort System

Return Air Grille

Return Air Thermostat

Temperature Controller

Temperature Changeover Controller

Condenser Fans

Condenser Coils

Evaporator Coil

Heating Coil

A/C Alternator Assy.

Retainer Bearing

Capacitor Assy.

Rotor Assy.

Slip Ring Assy.

Race, Inner Bearing

Rotor, Slip Ring End

Coil Assy.

Rotor Hub

Rotor Drive End

Shaft

Fan Assembly

Housing Assembly

Housing, Slip Ring End

Housing, Brush Holder

Rectifier Assy. (+)

Rectifier Assy. (-) Roller Bearing Stator Refrigerant System Components System Piping and Units (Upper) Expansion Valve Filter Drier Accumulator Liquid Solenoid Valve External Equializer Line Evaporator Outlet Line System Isolation Valve System Piping and Units (Lower) EPR Valve Suction Pressure Switch Discharge Pressure Protection Switch Accumulator

Liquid Solenoid Valve

Expansion Valve

Evaporator Pressure Regulator

Compressor

Compressor Shell

Clutch Coil and Housing Assy.

Pulley

Bearing

Clutch Plate and Hub Assy.

Front Discharge Valve Plate Assy.

Front Cylinder Half

Thrust Bearing

Shaft

Discharge Crossover Tube

Teflon Ring Type Piston

Axial Plate

Rear Cylinder Half

Rear Discharge Valve Plate Assy.

Needle Bearing

Inner Oil Pump Gear

Outer Oil Pump Gear

Rear Head

Pressure Relief Valve

Electrical System

Generator Drive

Drive Gear

Balance Shaft Gear

Driver Gear

Adapter

Rotor Shaft

Diode End Frame

Diode

Diode & Support Assy. Relay Generator Field Rotor Assy. Stator Assy. Shaft Ball Bearings Battery Battery Cables Voltage Regulator Field Discharge Diode Wire Wound Resistor (6 each) Power Output Transistors (TR1) Potentiometer (R5) Drive Condenser (TR-2) Feedback Condenser (C-1) Zenner Diode Back Bias Diode Filter Condenser (C-2) Feedback Connection Insulators Passenger Signal Switches Instrument Panel Assembly

Power Relay

Fuse Block

Terminal Board Assy.

Flasher

Air Gauge

Diagnostic Module

Circuit Breakers

Voltmeter

Wiper Control

Washer Control

Motor Guard Control

Defroster Switch

Panel Light Rheostat

Test Switch

Fast Idle Switch

Passenger Signal Switch

Exterior Lights and Signals - Front

Identification Lamps

Roadside Directional Lights

Curbside Directional Light

Roadside Head Lamp Bezel

Curbside Head Lamp Bezel

Roadside Headlight Assy.

Curbside Headlight Assy.

Rear Light Exterior

Red Lamp Assy.

Clear Lamp Assy.

License Lamp

Front Stepwell Lamp Assembly

Rear Stepwell Lamp Assembly

Engine System

Air Intake System

Screen

Inlet Hose

Air Cleaner Body

Air Restriction Indicator

Hump Hose

Element

Intake Duct

Cooling System

Surge Tank

Vent Cock Valve

Radiator

Hoses

Heating Water Pump

Thermostat (2)

Pressure Valve

Oil Cooler

Fan Control Valve

Fan

Heat Exchanger

Lcw Coolant Relay

Fan Drive

Wear Sleeve

Fan Hub

Bearing Retainer

Fan Hub Bearing

Output Housing

Output Shaft

Clutch Thrust Plate

Brake Disc

Piston

End Housing

Piston Spring

Driver Plates (7)

Exhaust System

Tailpipe

Muffler

Exhaust Manifold

Bypass Oil Filter

Filter Base

Element

Filter Shell

Brake System

Front Mechanical Pneumatic & Controls

Low Pressure Sw.

Check Valve (B/W)

Check Valve (Williams)

Interlocak Solenoid Valve

Air Strainer

Pressure Protection Valve (Suspension)

Pressure Protection Valve (Accessory)

Dual Reservoir

Secondary Service Reservoir

Front Brakes

Brake Changer

Pressure Plate

Diaphragm

Non Pressure Plate

Push Rod

Boot

Return Spring

Brake Shoe and Lining Assy.

Rollers

Camshaft

Brake Spider

Slack Adjuster

Ouick Release Valve

Automatic Slack Adjuster

Air Reserve and Piping

Brake Interlock Solenoid Valve

Pressure Reducing Valve

Double Check Valve

Stop Light Switch

Air Throttle System

Treadle Valve Assy.

Treadle

Roller

Control Valve Rod Plunger

Torsion Spring

Control Valve

Throttle Control Cylinder

Compressir, Air

Governor

Spring-Inlet Valve

Head-Cylinder

Insert-Spring

Spring-Discharge Valve

Piston-Unloader

Spring-Unloader

Plunger-Unloader

Body-Cylinder Block

Rod Connecting

Bushing-Wrist Pin

Piston

Retainer-Bearing

Bearing-Ball (2)

Parking Brake Control Valve

Rear Brakes

Brake Shoe and Lining Assy.

Brake Spider

Rollers

Return Spring

Camshaft

Slack Adjuster

Brake Chamger

Push Rod

Diaphram

Compression Spring

Service Brake Air Chamber

Parking Brake Air Chamger

Released Stud Assy.

Spring Brake Valve

Parking Brake Relay Valve

Fuel Supply System

Fuel Tank Assembly

Primary Service Reservoir

Check Valve (Williams)

Low Pressure Switch

Fuel Lines

Primary Filter

Fuel Pump

Secondary Filter

Injector Manifold

Start Switch

Shift Switch

Feedback Check Valve

Safety Equipment

Windshield Wiper Assy.

Wiper Motor Assy.

Connecting Link

Idler Housing Assy.

Knurled Shaft

Blade Assy.

Wiper Arm

Idler Arm

Shaft Assembly

Defroster Assembly

Blower Motor

Blower Housing

Blower Wheel

Rear Plenum Panel

Heater Core

Air Filter

Heater Hose

Water Valve

Heater Control

Horn

Body and Structures

Front Exterior Panels

Front Closure Assy.

Destination Sign Window

Curbside Windshield

Roadside Windshield

Roadside Front Corner Panel Assy.

Curbside Front Corner Panel Assy.

Roadside Wiper Motor Access Door

Curbside Wiper Motor Access Door

Front Wall Frame Assembly

Front Access Door

Front Closure Assembly

Front Bumper Assy.

Front Doorpost Closure

Front Door Panel

Top Closures

Curbside Sidewall Assembly

Lower Exterior Trim

Transmission Door Assy.

Rear Fender

Front Fender

Rub Rail

Rear Lower Cover

Lower Cover Retainer

Intermediate Lower Cover

Intermediate Skirt

Bumper Extension Assy.

Sidewall Frame Assy.

Stub Mullion

Mullion

Top Rail

Short Mullion

Rear Upper Shear Plate

Rear Shear Plate Reinforcement

Lower Firewall & Settee Seat Reinforcement

Rear Lower Shear Plate

Rear Wheelhouse Shear Plate

Front Wheelhouse Shear Plate

Sidewall Interior Trim

Interior Trim Panels

Auxiliary Heater

Blower Motor

Blower Wheel

Motor Plate

Solenoid

Filter

Heater Core

Heater Case

Seats

Windows

Roadside Sidewall Assembly

Lower Exterior Trim

Front Fender

Rear Fender

Rub Rail

End Rub Rail

Intermediate Lower Cover

Rear Lower Cover

Radiator Grille Assy.

Bumper Extension Assy.

Rear Skirt

Battery Access Skirt

Intermediate Skirt

Front Skirt

Sidewall Frame Assy.

Stub Mullion

Mullion

Upper Rear Shear Plate

Top Rail

Front Pillar

Front Wheelhousing Shear Plate

Rear Wheelhousing Shear Plate

Lower Firewall & Settee Seat Reinforcement

Rear Shear Plate

Driver Seat

Sidewall Interior Trim

Windows

Roof Assembly

Curbside Upper Closure

Curbside Rain Gutter

Roadside Upper Closure

Roadside Rain Gutter

Emergency Hatch

Support Ring

Primary Closeout

Lid

Hinge

Floor Assembly

Curbside Rear Wheelhousing

Roadside Rear Wheelhousing

Curbside Front Wheelhousing

Roadside Front Wheelhousing

Front Stepwell

Rear Stepwell

Rear Closure Assembly

Exhaust Closeout Panel

A/C Plenum Door

Rear Upper Grille

Grille Divider Channel

Grille Door Assembly
Roadside Upper Side Panel
Rear Closure Panel
Curbside Upper Side Panel
Curbside Street Assembly
Doorhanger Assembly
Roadside Street Assembly

Engine Door Assembly

Water Fill Door Assy.

Water Fill Door Frame

Oil Fill Door Assembly

Oil Fill Door Frame

Engine Door Assy.

Suspension, Steering & Tires System

Front Axle Assembly

Bushing

Steering Knuckle

Knuckle Pin

Steering Arm

Axle Center

Thrust Bearing

Steering Arm

Kneeling Suspension System

Check Valves

Quick Release Valve

Isolation Valve

Kneel "Up" Valve

Kneel "Down" Valve

Air Control Valve

Supply Cutoff

Down Limit Microswitch

Brake Interlock Microswitch

Steering Gear Transfer Box

Housing

Shaft (Vertical)

Thrust Bearing

Gear (Vertical)

Bearing

Gear (Horizontal)

Needle Bearing

Power Steering Gear Assembly

Plunger

Actuating Shaft & Bearing

Piston and Valve Assy.

Reversing Spring & Valve

Housing

Cylinder Head

Bearing

Output Shaft Gear

Output Shaft

Oil Gear

Pitman Arm

```
Wheels & Tires
     Tires
     Rim
     Front Hubs & Bearings
          Bearing Adjusting Nut
          Brake Drum
          Outer Bearing Cone & Roller Assy.
          Inner Bearing Cone & Roller Assy.
          Brake Spider
          Steering Knuckle
          Hub
Steering Column Assembly
     Steering Wheel
     Bearing Assembly
     Switch Lever
     Horn Contact Roller Assy.
      Jacket Tube
      Spring
      Wheel Tube
      Coupling Shell
      Rubber Shield
 Rear Axle Assembly
      Axle Shaft
```

Bushing

Housing Assembly

Carrier Assembly

Spider

Pinion

Gear-Side

Bearing-Cone

Gear Assembly

Cup-Bearing

Ring Adjusting

Slinger

Bearing-Cone, Outer

Bearing-Cone, Inner

Cup-Bearing, Inner

Cup-Bearing, Outer

Bearing-Roller 1

Rear Suspension

Air Bags

Shock Absorbers

Transverse Rod

Height Control Valve

Power Steering

Reservoir and Filter

Holddown Spring

Filter Screen Assy.

Element Cartridge

Shell Assembly

(Rear Wheels and Tires are identical to front units)
Steering Pump

Cover Housing

Relief Spring

Relief Valve

Pressure Plate Spring

Pressure Plate

Pump Ring

Rotor

Pump Housing

Inside Bearing

Bearing Drive Shaft

Drive Shaft

Drive Hub

Drive Spring

Drive Coupling

Rear Hub and Bearings

Axle Shaft

Outer Bearing Cone and Roller Assy.

Rear Hub

Brake Drum

Inner Bearing Cone and Roller Assy.

Drive Train System

V730D Transmission

External Oil Filter

Shift Solenoids

Oil Cooler

Planetary Gearing

Torque Converter

Modulator

Upshift Valve

Downshift Valve

Control Switch

1st Gear

2nd Gear

3rd Gear

Neutral Gear

Reverse Gear

Linkage

Converter

Clutches

Bearings

Shifter Ping Tank

Air Shifter Assy.

Piston Return Spring

Piston

Rachet Slide

Stop Plug

Drive Shaft Assy.

Bearing Assy.

Journal

Slip Joint

Propeller Shaft

Universal Joint

Slip Yoke

Journal

Needle Bearing Assy.

Differential

APPENDIX A-5

FLX-NCL

BODY AND STRUCTURES

Emergency Escape Side Windows

Emergency Escape Rear Windows

Windshield Glass

Standee Glass

Door Glass

Rear Window Glass

Side Window Assemblies

Outer Frame

Brace

Hinge

Block Stop

Block Catch

Spacer

Outer Frame Seal

Water Seal

Window Spacer

Inner Frame

Sash End

Glass

Sliding Sash Channel

Nylon Glide

Spine

Seal

Latch Assembly

End Seal

Seal

Spline

Slide Assembly

Handle Assembly

Destination and Run Number Signs

Windshield Wipers

Wiper Motor

Transmission Shaft

Back-up Washer

Arm Driver

Intake Fitting

Elbow Fitting

Wiper Arm

Wiper Blade

Control Valve

Control Valve Knob

DOOR AND DOOR CONTROLS SYSTEM

Entrance Door Operating Equipment

Front Door Lever

Front Connecting Rod

Step Light Switch

Door Engine Assembly

Tie Rod

Speed Adjustment

Spring

Cushioning Seal

Large Cylinder

Bolt

U-Seal

Gear and Shaft Assembly

Roll Pins

Rack

Small Piston

Cylinder Cap

Expander

Small Cylinder

Body Assembly

Large Piston

Spring Retainer

Tetter Lever

Rear Connecting Rod

Control Valve Air Line

Constant Pressure Air Line

Terminal Strip

Rear Door Lever

Front Door Air Shut-Off Valve

Rear Door Operating Equipment

Door Shaft Lever

Check Cylinder

Cam and Lever Assembly

Solenoid Valve

Header Assembly

Base Plate

Connecting Rod and Yokes

Switch, Interlock Control

Pawl Spring

Locking Pawl

Spring Pin

Door Closing Spring

Emergency Release Connecting Rod

Emergency Release Lever

Connecting Rod and Yokes

Door Controller

Handle Assembly

Electrical Switch

Controller Body

Bullet Catch Bracket

Index Plunger

Plunger Index Spring

Actuator Cam

Bracket Assembly

Brake Interlock System

Door switches

Magnet Valve

End Cover

Plunger

Coil Assembly

Terminal Block & Clip

Shell Solenoid

Valve

Valve Body

Pressure Regulator Valve

Spring

Body

Piston

Seal Assembly

Spring

Double Check Valve

Air Separator

Clamp

Outlet

Body

Inlet

Drain Tube Fitting

BRAKES SYSTEM

Air Brake Components

Air Reservoirs

Service Reservoir Check Valve

Park and Accessory Reservoir Check Valves

Body

Washer

Valve Seal

Spring

Screw Cap

Double Check Valves

Body

Shuttle Guide

Shuttle Valve

Cap

Safety Valves

Release Pin

Adjusting Nut

Spring Cage

Spring

Ball Valve

Body

Pipe Thread

Pressure Protection Valves

Adjusting Cap

Pressure Regulating Spring

Exhaust Vent

Piston Plug

Valve Stem

Piston

Inlet Valve Spring

Spring Retainer

Inlet Valve

Air Line Strainer

Bushing

Disc

Housing

Air Strainer

Disc

Bushing

Low Air Indicators

Body

Diaphragm

Cover

Spring

Contact Points

Stop Light Switch

Dual Air Pressure Gauge

Dual Brake Application Valve

Brake Pedal

Pedal Cover

Pin Retainer Plate

Bearing

Pin & Roller

Brake Pedal

Mounting Pin Assembly

Mounting Plate

Bearing

Mounting Bolts

Toeboard & Covering

Front Brake Chambers

Non Pressure Plate

Spring

Inlet Port

Diaphragm

Pressure Plate

Clamp Ring Nuts & Bolts

Clamp Ring

Boot

Push Rod Assembly

Mounting Bolts

Quick Release Valve

Brake Chamber Port

Exhaust Port

Brake Chamber Port

Brake Valve Port

Diahragm

Cover

Body

O-Ring

DD3 Brake Actuator System

Brake Actuator Assembly

Auxiliary Pressure Plate

Auxiliary Diaphragm

Diaphragm Senator

Auxiliary Clamp Ring

Service Pressure Plate

Service Diaphragm

Service Clamp Ring

Rear Seal Retainer

Rear Seal

Non-Pressure Plate

Return Spring

Piston Grommet

Collar

Cap O-Ring

Roller

Roller Spring

Lock Cap

Front Seal

Boot

Release Lever

Retainer

Clevis

Push Rod

Retainer Ring

Splash Plate

Piston

Stud

Lock Port

Check Valve

Service Port

Parking and Emergency Port

Mechanical Release Yoke

Yoke

Release Lever

2 Retainers

Yoke Pin

Manual Parking Control Valve

Service Interlock Assembly

Shuttle Valve

Syncro Valve

TR-3 Stand-By Valve

TR-3 Inversion Valve

Service Brake Relay Valve

Valve Bolt

Piston Return Spring

Inlet & Exhaust Valve Seat

Piston

Valve Corer

Exhaust Check

Exhaust Cover

Valve Cap

Valve Return Spring

Spring Seat

Inlet & Exhaust Valve

Parking Brake Relay Valve

Cover Assembly

Relay Piston Assembly

Sealing Ring

Piston Return Spring

Inlet & Exhaust Valve

Exhaust Cover

Diaphragm

Pressure to Spring Brake Chambers

Sealing Ring

Quick Release Diaphragm

Exhaust Cover

Front Brake Shoes, Linings & Camshafts

Brake Chamber

Brake Shoe & Lining Assy.

Anchor Pins

Lubrication Fittings

Lock Plate

Lock Bolt

Return Spring Access Hole

Rollers

Return Spring

Camshaft

Brake Spider

Rear Brake Shoes, Linings & Camshafts

Brake Shoe & Lining Assy.

Brake Spider

Lubrication Fittings

Lock Bolts

Anchor Pin Lock

Anchor Pins

Rollers

Return Spring

Camshaft

Slack Adjuster

Return Spring Access Hole

Automatic Slack Adjuster

Needle Bearing

Rear Cover

Belleville Washers

Body

Welch Plug

Return Spring, Inner

Return Spring, Outer

Worm Wheel Gear

Control Arm Lever

Cover Plate

Cover Screws

Rack

Worm Shaft

Bearing

Clutch Gear

Clutch Hub

Clutch Spring

Front Cover

Bushing

Front Bracket Assy.

Rear Bracket Assy.

Air Compressor

Air Compressor Drive

Drive Disc

Coupling

Hub

Compressor Bearing

Spring

Compressor Crankshaft

Compressor Crankcase

Cylinder Head

Unloader Cover

Cover Bolt

Unloader Pin

V-Seal

Unloader Spring

Exhaust Valve Stop

Head

Exhaust Valve Spring

Exhaust Valve

Exhaust Valve Seat

Washer

Inlet Valve

Inlet Valve Cage

Inlet Valve Spring

Inlet Valve Seat

Pistons, Connecting Rods and Bearings

Piston & Rod Assembly

Connecting Rod

Snap Ring

Piston Pin

Piston

Compression Rings

Snap Ring

Oil Ring

Air Compressor Governor

Housing

Filter Inlet

Retainer Spring

Springs

Housing Outlet

Valve Assembly

Valve Cap Assembly

Screw

Air Dryer

Desiccant Sealing Plate

Inlet

Cartridge Bolt

Purge Valve Piston

Control Port

Purge Valve

Electrical Terminal

Thermostat Enclosure

Heater

Oil Filter

Perforated Plate
Spring Retainer
Outlet
Check Valve

AIR COMFORT SYSTEM

Cooling System

Radiator

Fan Shroud

Surge Tank

Hose, Surge Tank to Water Pump

Fan Blades

Thermo Switch

Torus Housing

Water Pump

Vent Line

Thermostat Housing

Vent Line (Cooling System)

Vent Clock

Fluid Drive Fan

Fan Blade Assembly

Oil Seal Assembly

Washer

Transfer Tube

Seal

Outer Bearing Assembly

Adjusting Spacer

Inner Bearing Assembly

Fan Drive Coupling

Fan Drive Damper Assembly

Oil Pump Gears

Crankshaft

Crankshaft Front Cover (0.1 Pump Housing)

Fan Drive Housing

Torus Drive Shaft

Bearing Retainer

Oil Seal Ring

Gasket

Driving Torus Housing

Driving Torus Assembly

Driven Torus Housing

Driven Torus Assembly

Oil Seal Ring

Bearing

Fluid Control Valve

Element

Stem

Body Plug

Retaining Ring

Return Spring

Override Spring

Seal Retainer

Valve

Body

Valve Seal

Heating and Ventilation

Heating System Water Pump and Motor

Commutator End Frame

C.E. Bearing Assembly

Brush Cap

Brush and Spring Assembly

Armature Assembly

Stator Assembly

Drive End Bearing Assembly

Pump Body

Shim

Pump Cover Gasket

Pump Impeller

Pump Cover

Cover Screw

Pump Drain Plug

Pump Seal Assembly

Seal Seat Assembly

Rubber Slinger

Thrust Washer

Spring Thrust Washer

Retainer Ring

Air Filters

Heater Core Unit

Blower Motor

Brush Inspection Cover

Brush Retaining Spring

Brush

Brush Holder Assembly

Ground Terminal

Postive Terminal

Lead Assembly

Commutator End Frame

Bearing

Negative Terminal

Armature

Magnet

Stator

Fan

Fan End Frame

Bearing

Base

Driver's Heater & Defroster

Heater Line Filter Screen

A/C Compressor

Oil Pressure Switch Oil Charging Valve Clutch Assembly Clutch Coil Pulley Assy. Flywheel Retainer Suction Valve Discharge Valve Cylinder Unloader Handhole Cover Assy. Capacity Control Actuator Connecting Rods Pistons Oil Pump End Plunger & Spring Assy. Crankshaft & Bearing Head Condenser Unit Condenser Fan Capscrew Cover Spring Hub Fan Seal Orifice Ring

Motor Bracket

Motor Assy.

Truss Assy.

Motor Mount

Sleeve

Support Angle

Condenser Fan Drive

A/C Alternator

Key

Fan Assy.

Spacer, Fan

Housing, Drive End

Plug, Vent

Insert Mounting

Bearing

Oil Seal

Retainer Bearing

Roll Pin

Rotor Assy.

Shaft

Rotor, Drive End

Hub, Rotor

Coil Assy., Rotor

Rotor, Seal Ring

Race, Inner Bearing

Ring Assy., Slip Stator & Terminal Assy. Screw, Terminal Washer, Insulation Capacitor Assy. Rectifier Assys. Bushing, Insulation Oil Seals Bearing, Roller Lead, Terminal Wire Insulator Insualtion Bushing Housing, Seal Ring End Bushing, Slideable Ring, Sealing Housing, Slip Ring End Stud, Terminal Brush Jumper Cover, Terminal

Receiver Tank

Expansive Valve

Power Assy.

Seal Cap

Seal Bonnet

Adjusting Stem

Body Flange Gasket

Cage Assy.

Body Flange

Diaphragm

External Equalizer

Connector

Remote Bulb

Pressure Gauge Set

Low Pressure & Vacuum Gauge

High Pressure Gauge

Gauge Manifold

Service Valves

Valve & Stem Assy.

Test Gauge Connection

Cap

Packing Gland

Refrigerant Lines

ELECTRICAL SYSTEM

Generator

Generator Drive

Generator End Frame

Mounting Stud

Drive Gear

Balance Shaft Gear

Gear Retaining Nut & Washer

Hex-Head Screw

Driven Gear

Tapered Setscrew

Gear Train Cover

Adapter

Rotor Shaft

Diode End Cover

Output Terminal Stud

Diode

Diode & Support Assembly

Stator Terminal Studs

Relay Terminal Stud & Lead Assy.

Insulating Washer

Field Terminal Stud

Stator Assy.

Output Terminal

Field Terminal

Rotor Assembly

Voltage Regulator

Field Discharge Diode

Wire Wound Resistor

Power (Output) Transistors

Potentiometer

Driver Transistor

Feed-Back Condenser

Zener Diode

Back-Bias Diode

Filter Condenser

Feed-Back Connection

Wire Wound Resistors

Insulators

Starter and Solenoid Assy.

Cable

Terminal

Plug

Commutator

Field Coil

Pole Shoe

Armature

Bronze Bushing

Heavy-Duty Clutch

Bronze Bushing

Oil Wick

Nose Housing

Lever Housing

Shift Lever

Linkage

Linkage Seal

Heavy-Duty Solenoid Switch

Brush

Commutator End Frame

Oil Reservoir

Driver's Switch Panel & Utility Box

Engine Apparatus Box

Rear Start Switches

Master Switch

Alarm and Signal Systems

Bug Light Panel

Alarm Buzzer and Rectifier Assy.

Passenger Signal Chime & Buzzer

Lighting Systems

Headlights

Stop Light System

Stop Light Switch

Tail Lights

Directional Signals

Directional Signal Switch

Floor-Mounted Directional Switches

Hazard Warning Flashers

Back-Up Lights

Flourescent Lighting System

Dome Lamp Socket & Lens

Power Supply Module

Miscellaneous

Circuit Breakers

Relays

Electric Horns

Batteries

Speedometer

Sensor & Rotor Assembly

Slotted Rotor

Wheel Speed Sensor & Sensor Module

Electrical Cable

Speedometer Head

ENGINE SYSTEM

Upper Support Bracket

Engine Cradle Support

Radiator

Fan Shroud

Torus Housing

A/C Alternator

Engine Oil Dipstick

Oil Filler Tube

Emergency Stop

Emergency Stop Solenoid

Wire Terminal

Cover

Case and Coil Assembly

Plate

Plunger and Rod Assembly

Plunger Spring

Engine Stop Solenoid

Valve Body

Plunger Assembly

Spring

Sleeve Assembly

Housing

Coil

Adapter (Air)

Adapter Seal

Wiring Connector

Engine Stop Cylinder

Cylinder

Piston Cap

Piston

Cylinder Cap

Piston Rod

Heat Shield

Fuel Filters

Air Compressor

Compressor Governor

Transmission Dipstick

Transmission Oil Filter

By-Pass Oil Filter

By-Pass Filter Lines

Generator

Compressor Intake

Compressor Discharge

Oil Manifold

Stabilizer Rod

Surge Tank

Engine Cradle Mounting - Top

Temperature Gauge

Air Induction System

Oil Pressure Gauge

Engine Cradle Mounting - Top

Engine Electrical Box

Ping Tank

Fuel Line Fittings

Starter Cable and Ground Strap

Starter Access Door

Heating System Circulation Pump

Heating System Shut-Off Valve

A/C Compressor Drive

Engine Mounting - Lower

Muffler

Engine Mounting - Lower

Propeller Shaft
Radiator Lower Support Holes

SUSPENSION, STEERING, AND TIRES SYSTEM

Front Axle Assembly

Bushings

Adjusting Nut

Steering Knuckle Assembly

Knuckle Upper Bushing

Knuckle Pin Sleeve

Upper Dust Cap

Thrust Bearing

Expansion Plug

Knuckle Lower Bushing

Tapered Knuckle Pin

Knuckle Wheel Spindle

Snap Ring

Steering Arm

Set Screw

Dust Pin

Steering Arm

Rear Axle Assembly

Drive Gear

Differential Case

Differential Spider

Pinion Thrust Washer

Adjusting Ring Lock

Bearing Adjusting Ring

Axle Shaft (right)

Axle Housing

Differential Side Gear

Drive Gear Bolt

Differential Carrier

Pinion Cage Shims

Pinion Cage Tapered Dowel

Pinion Cage Stud

Pinion Oil Seal Retainer Gasket

Pinion Oil Seal Retainer

Oil Seal Sleeve

Pinion Nut

Propeller Shaft Flange

Dust Slinger

Pinion Oil Seal Assembly

Pinion Cage

Pinion Bearing Cone - Outer

Pinion Bearing Cup - Outer

Pinion Bearing Spacer

Pinion Bearing Cup - Inner

Pinion Bearing Cone - Inner

Drive Pinion

Pinion Bearing

Bearing Retainer Ring

Carrier Stud

Axle Shaft (left)

Differential Bearing Cone

Differential Bearing Cup

Differential Bearing Cap

Differential Pinion

Differential Case Bolt

Front Suspension

Bracket, Shock Absorber Mounting
Bushing
Rubber Bushing
Retainer Plate
Transverse Radius Rod
Shock Absorber
Air Bag
Radius Rod Bushing
Transferse Rod Mounting Bracket
Shock Absorber Bushings
Air Bag Mounting Plate
Adjustable Radius Rod
Lower Radius Rod, RH
Pin, Shock Absorber Mounting

Radius Rod Bracket

Lower Radius Rod, LH

Pressure Protection Valve

Accessory Air Tank

Upper Radius Rod

Height Control Valve

Rear Suspension

Height Control Valve

Cover and Bracket

Delay Cover

Delay Piston

Valve Lever Screw

Valve Stem Lock Clip

Intake Valve Core

Valve Body

Piston Pin

Delay Plug

Exhaust Valve Core

Exhaust Screen

Exhaust Fitting

Inlet Adapter & Check Valve Assy.

Outlet Adapter Screen

Outlet Adapter

Shaft O-Ring (Medium)

Overtravel Control Shaft

Shaft O-Ring (Large)

Overtravel Body Plug

Overtravel Piston

Overtravel Spring (Large)

Overtravel Spring (Small)

Overtravel Control Body Seal

Overtravel Control Body

Overtravel Lever Stud

Overtravel Lever

Plug Retainer

Delay Cover Retainer

Intake and Exhaust Valve Lever

Air Bag

Upper Radius Rod

Shock Absorber

Spring Beam

Lower Radius Rod

Kneeling System

Air Solenoid Valve

R-6 Relay Valve

Cut-Off Valve

Two-Way Check Valve

Delco Height Valve

Bendix Height Valve

Pressure Regulator

STEERING

Drain Plug

Universal Joint

Drive Shaft

End Yoke

Journal Cross

Bearing

Lubrication Fitting

Slip Joint Sleeve Yoke

Dust Cap

Drive Shaft Tube

Fixed Joint ...

Steering Column and Bevel Gear

Steering Shaft

Steering Column Tube

Steering Shaft Lowr Bearing

Bevel Gear Bearing

Housing Cap Assembly

Housing Cap Bearing

Bevel Gear

Bevel Gear Housing

Housing Bearing

Retainer

Pinion Gear to Shaft Nut

Steering Shaft Pinion Gear

Housing Upper Cover Bearing

Shim Pack

Housing Vent Assy.

Housing Upper Cover

Upper Steering Column

Horn Button

Retainer

Receiver Cup

Steering Wheel

Cancelting Cam

Flat Steel Spring

Switch Assembly

Turn Signal Housing

Steering Column

Steering Shaft

Seal Plate

Steering Gear Assembly

Housing Side Cover

Pitman Shaft Side Cover Bearing

Pitman Shaft Sector Gear

Pitman Shaft Housing Bearings

Breather

Steering Gear Housing

Steering Shaft End Yoke

Housing Upper Cover

Worm Bearing Cone & Cup

Steering Shaft Oil Seal

Bearing Adjusting Shims

Worm Bearing - Lower

End Yoke Key

Steering Shaft Worm

Ball Nut Stops

Ball Guide

Clamp

Worm Balls

Clamp Screw

Pitman Shaft Oil Seal

Back-Up Adjuster Packing

Back-Up Adjuster

Back-Up Adjuster Lock Nut

Steering Drag Link Assembly

End Socket

Drag Link Tube

Socket Clamp Bolt

Clamp

End Socket

Plug

Plug Lock

Seat Spring

Grease Retainer

Socket Centering Spring

Stud Seat

Stud Bearing

Bearing Race

Dust Seal

End Stud

Steering Tie Rod

Stud

Rubber Dust Cover

Socket Bearing

Tie Rod Tube

End Clamp

Grease Cavity

End Stud Seat

Spring

Retainer Plug

WHEELS AND HUBS

Front Hub and Bearings

Hub Cap

Adjusting Nut Lock Ring

Bearing Adjusting Nut

Wheel

Brake Drum Retaining Screw

Brake Drum

Outer Bearing Cup

Outer Bearing Cone & Roller Assy.

Inner Bearing Cone & Roller Assy.

Inner Bearing Cup

Brake Spider

Oil Seal

Bearing Spacer

Steering Knuckle

Wheel Stud

Hub

Oil Seal Washer

Rear Hub and Bearings

Oil Seal Wiper & Cork Assy.

Axle Shaft

Outer Oil Seal Assy.

Bearing Adjusting Nut

Outer Bearing Cone & Roller Assy.

Outer Bearing Cup

Hub

Wheels

Brake Drum Retaining Screw

Brake Drum

Oil Slinger

Oil Seal Retainer

Inner Oil Seal

Oil Seal Wiper Sleeve

Inner Bearing Cone & Roller Assy.

Inner Bearing Cup

Wheel Stud

Wheels

Tires

FUEL SUPPLY SYSTEM

Fuel Tank

Tank

Filler Cap

Filler Neck

Fuel Return

Fuel Supply

Strap Assy.

Bracket Assy.

Hanger Bracket

Strap Bracket

Primary Fuel Filter

Secondary Fuel Filter

Air Throttle System

Throttle Control Assembly

Throttle Control Cylinder

Cover

Piston Assy.

Body

Alignment Spacer

O-Ring Seal

Piston War Ring

Compression Spring

Dust Boot

Rod End Assy.

Shell

U-Cup Seal

Bracket Assy.

Governor Housing

Extension Spring

Spring Pin

Throttle Linkage Lever

Engine Governor Plate

Air Solenoid Valve

Transmission Modulator

Treadle Valve Assy.

Treadle

Roller

Treadle Pin

Control Valve Rod Plunger

Dust Boot

Bushing

Torsion Spring

Treadle Base

Control Valve

Accessor Reservoir

Air Induction System

Air Cleaner

Service Indicator

Insulators

Brackets

Moisture Eliminator

Clamp

Rubber Elbow

Clamp

Tube

Drain Tube

Compressor Tube

Hump Hose

Air Manifold

Valve Assembly

Tube

Hose

Bracket

Hose Clamp

Drain Spout

V-6 Exhaust System

Muffler

Muffler Straps

Spacer

Bracket

Clamp

Exhaust Pipe, RH

Exhaust Pipe, LH

Tail Pipe

Bracket

Support

Aspirator

Support Tail Pipe

Resonator

Bracket

Deflector

Tail Pipe

V-8 Exhaust System

Muffler Strap

Muffler Bracket

Strap Bolt

Clamp Assy.

Aspirator

Support Bracket

Tail Pipe

Muffler

Support

Exhaust Pipe

Bracket

Strap Bracket

Bushing

Exhaust Outlet

Rubber Support

Bracket - Upper Mounting

DRIVE TRAIN SYSTEM

Transmission

Torque Converter & Housing

Oil Pump

Main Pressure Regulator Valve

Oil Pan & Filter Screen

Control Valve Body Assembly

Governor Assembly

Governor Screen

Manual Selector Shaft Seal

Lock-Up Clutch

Flywheel Housing

Flywheel

Transmission Housing

Flexible Coupling Assy.

Input Drive Gear

Oil Cooler

Oil Filter & Lines

Neutral Start Switch

Transmission Shift Modulator

Transmission Shift Control

Cable Assembly

Bracket

Control Lever

Propeller Shaft

Universal Joint Flange @ Transmission

Yoke Flange

Slip Yoke

Journal

Lock Strap

Needle Bearing Assy.

Oil Reservoir

Lubrication Fitting

Lubricant Passage

Gasket Retainer

Bearing Assy.

Lock Strap

Lubricant Reservoir

Gasket Retainer

Journal

Slip Joint

Dust Cap

Cork Washer

Steel Washer

Propeller Shaft

Universal Joint Flange at Differential

Lubrication Fitting

APPENDIX A-6

AM-ARTICULATED

DOORS AND DOOR CONTROL (All Doors the Same)

Pipe Holder

Ball Joint Head

Ball Joint Head Holder

Guide Holder

Rubber Liner

Finger Guard

Sealing Strip

Door Cylinder

Pivot

Pivot Counter Nut

Cylinder

Cylinder Bracket

Piston Rod

Bearing

Cylinder Head

Bushing

Push Button Switch

Solenoids

Emergency Valves

Door Panels

AIR COMFORT SYS.

Heating & Ventilation Unit

Heat/Defroster Sys.

Motors - Blower

Armature

Condenser

Brush Assy.

Fan

Relays

Heat Exchanger

Panel

Water Modulation Valves Bus/Trailer

Heater Boxes/Bus

Shut Off Valves

Drain Valves

Heater Boxes/Trailer

Circulating Pumps

Bus/Trailer

Transmission Heat Exchanger

Circulating - Optional for Eng Cooling/Heat Sys Circuit

Heater

Hoses

Thermostat - Heater Circuit

Heater Controls

Air Conditioning

Air Compressor

Body & Head Assy.

Pistons/Connecting Rod Assys.

Crankshaft/Main Bearings

Flywheel & Housing Assy.

Rocker Arm Assys.

Valves

Gear Assys.

Drive Hub

Oil Pump/Relief Valve Assy.

Oil Pan

Oil Filter Assy.

Housing

Canister

A/C Controls

COMMUNICATIONS EQUIPMENT

Microphone

Aux. Mike

Public Address Sys.

Control Box - Amplifier

Speaker Assy.

Communication Controls

ELECTRICAL SYSTEM

Batteries (24 Volt-Series)

Charging Circuit

Cables

Main Switchboard

Main Relays

Main Autom Cut Out Fuses

Auxiliary Switchboard

Instrument Panel

Tachogram

Speedometer

Horns

Buzzers"

Stop Request Sys.

Switch Signal

Generator-Oil Cooled

End Frame Drive-Rectifier

Rotor

Bearings

Conductors-Rectifiers

Field/Stator Windings

Diodes

Generator Regulator

Lighting - No Sys. Breakdown

Interior - No Sys. Breakdown

Exterior - No Sys. Breakdown Controls

Signalling/Warning Lights

ENGINE SYSTEM

Engine Block Assy.

Liners

Cylinder Heads

Valves Intake/Exhaust

Valve Seats/Springs

Rocker Arm Assy.

Pistons/Rings

Pins

Connecting Rods/Caps

Bearings

Camshaft

Bearings

Tappets

Gear

Crankshaft

Main Bearings

Timing Gear

Flywheel

Torsional Vibration Damper

V-Belt Drive Pulleys

Oil Seal

Front Cover

Engine Mounts FT/Rear

Cooling System

Radiator

Upper Shroud

Connector Ring

Frame

Surge Tank Assy.

Vent Plug

Sight Glass

Filler Cap

Low Cooling Indicating Light Sending Unit

Water Pump

Shaft Assy.

Bearing

Impeller

By-Pass Elements

Water Pipe Connect

Lubrication System

Oil Pan/Dipstick

Oil Pump Delivery

Body

Lobe Rotors

Drive Gear

Suction Pipe/Strainer Assy.

Oil Pump Scavenge

Body

Lobe Rotors

Oil Pressure Relief Valve Assy.

Valve

Spring

Cap

Oil Filter Assy.

Shell

Element

Oil Cooler Assy.

Body

Cooler Element

Piston Jet Coolers

Valves

Crankcase Ventilation/Breather System

Breather/Ventilation Chamber

Breather Valve

Breather Pipe

Auto Oil Feed System

Oil Pipes

Auto Shut Off Valve

Balls

Oil Pan Float Valve Assy.

Reservoir

Float Valve

Exhaust and Inlet Manifolds Systems

Manifolds

Head Pipes

Flex Pipes

Connecting Pipe

Muffler Assy.

Straps

Brackets

Tail Pipe

Starter System

Starter Motor

Rotor

Collector (Comm)

Brush Assy.

Solenoid Switch

Pinion Shaft Assy.

Multiple Disc Clutch

Control Relay

Start-Locking Relay

Capacitor

BRAKES SYSTEM

Brake Pressure Governors (Drive Axle Front & Trailer)

```
Piston (Upper)
     Check Valve
     Bore
     Piston (Lower)
     Piston (from Bellows)
     Roller
     Lever (Lower)
     Spring
     Lever (Upper)
     Valve Body
     Pull Rod
     Housing
     Inlet-Outlet Valve
     Cylinder
Brake Cylinder
     Diaphragm
     Piston
     Spring
     Housing
     Piston Rod Guide
     Boot
Tristop Brake Cylinder
     Spring
     Piston Rod
     Piston (Diaphragm)
```

Piston Spring Diaphragm Piston (Spring Brake) Single Relay Valve Diaphragm Piston (Spring Brake) Single Relay Valve Piston Diaphragm Spring Overload Protection Valve Pistons Valve Body Diaphragm Flow Relief Valve Adjusting Spring Piston Diaphragm Check Valve Plunger Pressure Limiting Valve Housing Piston

Pressure Pad

Valve

Spring

Spring Case

Cover

Fast Exhausting Valve

Upper & Lower Housing

Diaphragm

Coil Spring

Automatic Drain Valve

Lower Housing

Upper Housing

Piston

Housing Cap

Two Way Valve

Emergency Release 3/2 Valve

Push Button

Valve Plunger

Coil Spring

Piston

Bushing

Air Drier 3/2 Way Valve

Piston

Valve Plunger

Coil Spring

Anti-Jack Knife Brake 3/2 Way

Solenoid Valve

Plunger

Piston

Spring

Armature

Coil Body

Cable Plug

Auxiliary 3/2 Way Valve

Electrical Control Connection

Solenoid Coil

Coil Spring

Solenoid Armature

Open Door Brake Valve

Coil Body

Armature

Spring

Solenoid Coil

Slack Adjustors (Steerable & Drive)

Control Disc

Spring Assy.

Worm Shaft

Cone Clutch

Rack

Steerable Axle Wheel Brakes

Bushing

Cam Support Bracket

Spider Bushing

Brake Camshaft

Return Spring Pin

Return Spring

Anchor Bushing

Spider Assembly

Backing Plate

Brake Drum

Brake Shoes

Bearing

Drive Axle Wheel Brakes

Bushing

Cam Support Bracket

Bushing

Seal Housing

Bearing

Bushing

Return Spring Pin

Return Spring

Anchor Bushing

Roller Pin

Anchor Pin

Spider Assy.

Backing Plate

Brake Camshaft

Brake Drum

Brake Shoes

Air Tanks

Tanks (Lead Bus)

Tanks (Trailer)

Lines

Connectors

Alcohol Evaporator

Toggle

Wick

Rod

Tank

Pressure Regulator

Lower Housing

Upper Housing

Upper Spring

Check Valve

Plunger

Safety Valve

Filter

Lower Spring

Piston, F, G

Diaphragm

Lead Bus Brake Application Valve

3-Way Switch

Switch Housing

Rubber Damper

Piston Upper

Spring

Piston Lower

Plug

Spring

Valve

Lower Housing Half

Spring

Valve

Upper Housing Half

Tred Plate

Parking Brake Valve

Spring

Plunger Rod

Pressure Piece

Hand Lever

Valve Body

Staging Spring

Staging Piston

Spring

Valve

Valve Plunger

Drive

Lever Parking Brake Valve Assy.

Four Circuit Protection Valve

Valve

Diaphragms

Springs

Check Valve

Overflow Valves

Trailer Control Valve

Piston

Spring

Valves

Piston Tube

Diaphragm

Bleeder Valve

Piston

Line Filter Assembly

Housing

Cartridge

Coil Spring

FUEL SUPPLY SYSTEM

Fuel Tank

Fuel Lift Pump

Pump Screen

Hand Primer

Fuel Filter, Stages 1 & 2

Injection Pump

Injector

Relief Valve

Solenoid Valve

Return Pipe

Pressure Pipe

Leak Off Connection

Leak Off Pipe

Governor

Air Throttle System

Accelerator Pedal

Connecting Linkage

Spring

Position Transmitter

Operating Lever

Electrical Connection Transmission

Floor Plate

Accelerator Pedal Lock Cylinder

Throttle Linkage

Injection Pump Control Lever

Engine Modulation Linkage

Transmission Modulation Linkage

Injection Pump

Intermediate Lever

Modulator Lever

Spring

Operating Lever

Control Linkage

Bowden Cable

Stop Cylinder

Idle Stop

Fast Idle Air Pressure Cylinder

Body Cover

Outer Spring

Inner Spring

Piston Rod

Piston

Body

Bearing Sleeve

Bearing

Engine Stop Cylinder

Operating Lever

Stop Cylinder

Air Pressure Line

BODY AND STRUCTURES - SYSTEM

Frame and Under Bus Structure

Shell Exterior

Shell Interior

Floor Cover

Insulation

Jack Pad

Articulation Section

Hinge Connection

Frame Mounts

Live Ring (Horz. Swing)

Auxiliary Frame (Vert)

Bellows Assys.

Gangway Bellows

Center Frame Coupling

Center Frame

Roof Coupling

Tensioning Cables

Turntable Assy.

Control Arms

Tie Rod Assys.

Articulated Brake Indicator

Warning System Switches

Window Assys.

Windshield Fr/Rear

Side

Operator

Sash Assys.

Seat Assys.

Operator

Passenger

Handholds - Partitions

Stantions

Roof Hatch Assys. (Vent/Emergency)

Frames

Holders

Spring Bodies

Covers

Destination Signs

Front

Side

Special Equipment

Fire Extinguisher

Sander Assy.

Hopper

Filler Cap

Access Door

Pipe Assy.

SAFETY EQUIPMENT SYSTEM

Windshield Wiper System

Motor

Blade

Wiper Arm

Pivot Shaft

Motor Lever

Linkage Rods

Rocker Switch

Washer System

Reservoir

Electric Pump

Rocker Switch

Lines

Spray Nozzle

Jets

SUSPENSION-STEERING & TIRES SYSTEM

Hydraulic Steering System

Steering Gear Assy.

Housing

Cover Assy.

Pressure/Steering Limit Valves

Sector Shaft

Bearings

Pitman Arm

Rack Piston

Steering Spindle

Column Steering

Wheel, Steering

Steering Hydraulic Pump Assy.

Body

Cover/Drive End Face Plates

Input Shaft

Rotor

Valve

Flow Control Valve

Supply/Return Lines

Reservoir, Steering

Tank

Suction Line Adapter

Filter

Cover

Dipstick

Steering Arm Bracket Assy.

Housing

Bearing Shaft

Upper/Lower Bushings

End Cover

Front Steering Linkage

Steering Arms

Tie Rods

Tie Rod Arms

Center Tie Rod

Ball Joints

Drag Link

Trailer Steering Linkage

Turntable Drag Links - Bus/Trailer

Turntable

Frame Console

Turntable Coupling

Turntable Control Lever

Drag Links

Reversing Lever

Center Tie Rod

Tie Rods

Steering Arm

Steering Bearings Assy.

Air Suspension System

Air Bellows - Front/Drive & Trailer Axles

Sealing Plate

Bellows

Roll Piston

Height Control Valves - Front/Drive & Steerable

Housing

Valve Mechanism

Shaft Assy.

Shock Absorbers - Front/Drive & Trailer

Upper Mount Assys.

Drive Axle Suspension

Control Arm Upper

Holder Assy.

Crossmember

Arm Mount/Bracket Assy.

Wheels & Tires

Steerable Axle Hub Assys.

Wheel Split Rim

Brake Drum

Shaft Seals

Bearing's Tapered - Inner/Outer/Seals

Wheel Hub

Steerable/Trailer Axle Assys.

Steering Knuckles

King Pins

Bushings

Mounting Base

Traverse Arms Upper/Lower

Traction Rods

Frame Mounting Brackets

Drive Wheel Hub Assys.

Wheel Split Rim

Brake Drums

Axle Casing

Axle Shaft

Bearings - Inner/Outer/Seals

Hub/Planet Gear Assy.
Outer Gear Carrier

DRIVE TRAIN SYSTEM

Planetory Drive

Planet Gears

Pins

Needle Bearing

Hub Bell Housing

Hollow Wheel (Outer Wheel)

Sun Gear

Planet Gear Carrier

Outer Thrust Washers

End Cover, Bell Housing

Outer Thrust Washer, Sun Gear

Differential

Ring Gear and Case

Pinion Cage

Drive Pinion

Taper Roller Bearing

Spacer Bushing

Flange End Taper Roller Bearing

Differential Ring Gear

Differential Bearing

Differential Spider

Upper Axle Shaft Gear

Lower Thrust Washer

Oil Slinger

Adjusting Ring

Axle Assembly

Axle Housing

Axle Shaft

Axle Shaft Bearing

Side Gear

Drive Shaft

Upper Control Arm

Propeller Shaft

Propeller Shaft Yoke

Needle Bearings

Universal Joint

Slip Joint

Protecting Sleeve

Transmission

Heat Exchanger

Converter Housing

Clutch

Flywheel Housing

Flywheel

Diaphragm Spring Clutch

Modulator Level

Rod 1

Rod 2

Ball Joint

Lever