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Cost Evaluation of Federal Motor Vehicle Safety Standard 210 - Passenger Cars and Evaluation of Cost and Weight Trends for Standards 201, 203 and 204 - Passenger Cars

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16. Abstract

The consumer cost and weight effect on 1983 vehicles, to comply with FMVSS 201, 203 and 204 as determined by a process of teardown analysis of those components affected by the Standards.

The Standards cover:
FMVSS 201 - Occupant Protection in Interior Impact, VOLUME I*
FMVSS 203 - Impact Protection for the Driver from the Steering Control System, VOLUME I
FMVSS 204 - Steering Control Rearward Displacement, VOLUME III

A pre, post and trend cost and weight effect of complying with FMVSS 210 as determined by detail analysis of those components affected.

The cars selected for this study were to be high volume representatives of all the various size classifications and, as near as possible, carry-over models or direct descendants of those in previous related studies. The sampling also includes cars downsized by weight reductions, recently redesigned smaller, more efficient vehicles with four and six cylinder engines, rack and pinion steering and front wheel drive.

*This document is VOLUME I (see above).

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PREFACE

Pioneer Engineering has conducted a cost study of components affected by:

- FMVSS 201 - Occupant Protection in Interior Impact
- FMVSS 203 - Impact protection for the Driver from the Steering Control System
- FMVSS 204 - Steering Control Rearward Displacement
- FMVSS 210 - Seat Belt Assembly Achorages

This work was performed under Contract DTNH22-83-C-06007. The objective of the study was to develop cost trends of the components required to meet these Standards. These costs were developed by selecting a sampling of automobiles that are produced in a relative high volume and were representative of a majority of those sold in the United States. Components from the sample vehicles were obtained and detailed cost were derived through reverse engineering analysis and detailed processing. The resulting cost data indicates the magnitude of the economic impact on the industry and the consumer from the implementation of these Standards. All cost data were based on on third quarter 1984 economics.

This contractor, Pioneer Engineering and Manufacturing Company, has conducted numerous previous "teardown" analyses for the NHTSA and private industry. The methodology for both conducting the "teardown" analysis and determining the estimated costs from actual part manufacturing process analysis has been developed and perfected by over 15 years experience in this type of work. The cost estimating techniques employed in the analysis are based on current automotive industry practice to assure real world consumer price values.

The contractor acknowledges the contributions of its staff, the automotive manufacturers, the Motor Vehicle Manufacturers Association and automotive trade publications. Special acknowledgement is made to the Contract Technical Manager, Mr. Warren LaHeist, for his contributions and helpful reviews throughout the program.

INTRODUCTION

The objectives of this contract were as follows:

- Determine the cost effect (trend cost) that Federal Motor Vehicle Safety Standards:
  - FMVSS 201 - Occupant Protection in Interior Impact
  - FMVSS 203 - Impact Protection for the Driver from the Steering Control System
  - FMVSS 204 - Steering Control Rearward Displacement

  had on 1983 automobiles and also to make a determination of the affect of downsizing, weight reduction and front wheel drive may have had on the cost of implementing these Standards. These Standards were implemented in 1968.

- Develop Pre, Post and Trend Cost Comparison of:
  - FMVSS 210 - Seat Belt Assembly Anchorages

  for full, mid, compact, sub-compact, foreign cars, multi-purpose vehicles, and both standard and light-weight pickup trucks.

The basis for the above price determinations is the "teardown" and analysis of system components from selected vehicles representing comparable makes/models prior to and after the effective date of the Standards. All of the cost information is therefore compiled from actual changes made by the manufacturers to assure compliance with the requirements specified in the FMVSS.

The analysis of design changes between comparable vehicles highlights those resulting from implementation of the Standards and those made for other reasons, such as styling, cost reduction or other functional improvements not associated with the requirement of these Standards. The analysis also provides the material type and weight of all components in the systems. For those components identified as changed because of the Standards, a detailed, or Micro-Cost Analysis, was conducted to determine the variable manufacturing costs. This analysis is based on a complete manufacturing process study which provides material, labor and burden costs for each part plus the costs of assembly operations.

A Macro-Analysis of the major U.S. automobile manufacturer's financial statements was utilized to determine the ratio of cost of goods sold to income from sales which

in turn provided an average ratio of variable manufacturing cost to manufacturers wholesale price. An analysis of dealer discounts in the automotive industry provided a typical ratio of wholesale price to consumer price. A summation of the component consumer price changes for each set of comparable vehicles provided the net consumer price effect of the specified Standards.

The quantity of pages generated by this effort has dictated that this report be presented in three (3) volumes. This volumes includes text for the entire report, and the data for Standard 201. Volume II contains the data for Standards 203 and 204; Volume III contains text for Standard 210.

SUMMARY

The intent of FMVSS 201 is to offer passenger car occupants as much protection as practical from obstructions, projections and hard places in the passenger compartment that may cause injury in the course of an accident.

This study obtained, from the list of 1983 cars tabulated below, those safety components related to FMVSS 201 and made a detailed weight, material and process analysis of each item. The current cost effect that each safety feature had on each car was then determined. The costs developed in this study indicate total costs, not differences or changes related strictly to the Safety Standard.

MAKE AND MODEL IDENTIFICATION OF VEHICLES
USED IN COST SAMPLING PLAN FOR
FEDERAL MOTOR VEHICLE SAFETY STANDARD 201

NUMBER	MAKE	SIZE*	MODEL
01	Chevrolet	Standard	Impala-Caprice
02	Chevrolet	Intermediate	Malibu
03	Chevrolet	Compact	Cavalier
04	Ford	Standard	Crown Victoria
05	Ford	Intermediate	Fairlane-LTD
06	Ford	Compact	Mustang
07	Chrysler	Standard	5th Avenue
08	Chrysler	Intermediate	"E" Class
09	Chrysler	Compact	Valiant-Reliant
10	A.M.C.	Subcompact	American, Gremlin, Alliance
11	Toyota	Subcompact	Corona, Tercel
12	Nissan	Subcompact	Sentra

*Size Classification Per Automotive News

An analysis of all the affected components, across the sampling of vehicles, indicated that most high and middle line, pre-Standard vehicles were in compliance, prior to the effective date, especially in the areas associated with luxury or comfort such as additional seat back protection, padded sunvisors and arm rests, key released

positive latch glove compartment doors, and some instrument panel padding (most were at least vinyl covered). The low line or economy vehicles, with painted instrument panels, unpadded sunvisors and arm rests, and glove compartment doors held shut with a detent or friction type catch, as a rule, had the largest safety compliance cost.

The Alliance glove compartment latch is a good example of cost effective design. They use a one piece plastic latch and integral return spring that costs less than $0.05. The average cost of the components required to perform the same function for the cars in the study is $0.31. It seems styling and design are sometimes more of a cost penalty than safety.

GLOVE COMPARTMENT DOOR LATCHES

Per FMVSS 201, each interior compartment door shall remain closed when subjected to an interior load of 10G, or a 30 MPH head-on collision. At one time most manufacturers used an indented or friction catch on the glove compartment door, especially on the low line cars. FMVSS 201 made it necessary to use a positive latch and striker that would not release until a button was depressed or a key turned.

The cars studied indicated an interesting spread in cost and weight. The most costly latches are the lockable ones; i.e., General Motors, Ford and Chrysler models. The locking feature appears to be a penalty of approximately $.60 to $.75. Ford save $.30 to $.35 and about .15 pound each by using a plastic injection molded housing. The two Japanese models use non-locking push button release mechanisms. Sentra's lock housing is plastic. The AMC Alliance four cent ($.04) latch is by far the most innovative of those included in the study. It is a one piece, sliding plastic latch. Even the return spring is an integral part of the injection molded latch. The striker is simply a rectangular hole in the instrument panel.

TABLE 1

GLOVE COMPARTMENT LATCH ALL COSTS ARE PER CAR

VEHICLE MAKE/MODEL	NO.	COST	WT. LB.	$/LB.	NO. PCS.	HOUSING MATL	HOUSING COST	REL. KNOB & SPRING	LOCK HSG. RETAINER	KNOB LOCK HSG.	LATCH	TUMBLERS & SPRINGS	STRIKER	ASSY	SAFETY ITEMS 03, 04 12 & 15	OTHER * COST
PART #						(02)		(03 & 04)	(07)	(09)	(12)	(13 & 14)	(15)	(01)		
Chevrolet Caprice	1	1.57	0.26	6.04	12	ZINC	0.13	0.34	0.05	0.07	0.03	0.07	0.05	0.71	0.50	0.12
Chevrolet Malibu	2	1.28	0.28	4.57	10	ZINC	0.15	0.32	—	0.06	0.06	0.08	0.07	0.49	0.50	0.05
Chevrolet Cavalier	3	1.57	0.26	6.04	12	ZINC	0.13	0.34	0.05	0.07	0.03	0.07	0.05	0.71	0.50	0.12
Ford Crown Victoria	4	1.14	0.12	9.50	12	PLASTIC	0.03	0.06	0.01	0.07	0.03	0.08	—	0.79	0.17	0.07
Ford LTD	5	1.14	0.12	9.50	12	PLASTIC	0.03	0.06	0.01	0.07	0.03	0.08	—	0.79	0.17	0.07
Ford Mustang	6	0.83	0.09	9.22	9	PLASTIC	0.04	0.02 (04 ONLY)	0.01	0.04	0.01	0.08	0.02	0.60	0.10	0.01
Chrysler Fifth Ave.	7	1.42	0.29	4.90	13	ZINC	0.14	0.34	—	0.06	0.03	0.05	0.08	0.63	0.53	0.09
Chrysler "E" Class	8	1.42	0.30	4.73	12	ZINC	0.14	0.34	—	0.06	0.03	0.06	0.07	0.63	0.52	0.09
Plymouth Reliant	9	1.42	0.30	4.73	12	ZINC	0.14	0.34	—	0.06	0.03	0.06	0.07	0.63	0.52	0.09
AMC Renault/Alliance	10	0.04	0.01	4.00	1	—	—	—	—	—	0.04	—	—	—	0.04	—
Toyota Tercel	11	0.39	0.12	3.25	7	ZINC	0.08	0.04	—	0.05	0.03	—	—	0.16	0.10	0.03
Nissan Sentra	12	0.30	0.04	7.50	5	PLASTIC	0.02	—	—	0.07	0.07	—	—	0.10	0.09	0.04

*This chart contains a list of parts whose costs have a significant effect on the cost difference of the safety features between car lines.

Other costs include those remaining components whose cost varies little from car to car.

TABLE 2

GLOVE COMPARTMENT LATCH

VEHICLE MAKE/MODEL	VEHICLE NO.	A SAFETY SYSTEM COST	B NO. OF VEHICLES PRODUCED	C WEIGHTED COST (A X B)
Chevrolet Caprice	1	$1.57	676,907	$1,062,743
Chevrolet Malibu	2	1.28	978,105	1,251,974
Chevrolet Cavalier	3	1.57	1,168,189	1,834,056
Ford Crown Victoria	4	1.14	152,454	173,797
Ford LTD	5	1.14	420,858	479,778
Ford Mustang	6	0.83	219,159	181,901
Chrysler Fifth Ave.	7	1.42	123,684	175,631
Chrysler "E" Class	8	1.42	119,009	168,992
Plymouth Reliant	9	1.42	338,652	480,886
AMC Renault/Alliance	10	0.04	142,205	5,688
Toyota Tercel	11	0.39	147,965	57,706
Nissan Sentra	12	0.30	209,889	62,967
TOTAL			4,697,076	$5,936,119

Safety System Weighted Average Cost = $1.26.

Safety System Weighted Average Cost - Column B Total Divided By Column A Total.

WINDOW REGULATOR HANDLES

Some pre-standard cars used a two piece, crank and knob assembly, both of which were chrome plated zinc die castings. The knob portion of the window regulator extended into the passenger compartment approximately 2.0 inches and represented a safety hazard upon which an occupant could be injured if thrown against it in the course of an accident. All post-standard vehicles now use a more pliable plastic or rubber knob. The General Motors, Ford and Chrysler regulators have chrome plated die cast cranks and soft plastic knob assemblies. The Alliance, Tercel and Sentra use a simple two piece plastic crank and knob which are nearly a dollar a door less expensive.

TABLE 3

WINDOW REGULATOR HANDLE FRONT DOOR 1 RT. & 1 LT. ALL COSTS ARE PER CAR

VEHICLE MAKE/MODEL	NO.	COST	WT. LB.	$/LB.	NO. PCS.	KNOB MATL	KNOB COST	HANDLE MATL	HANDLE COST	GROMMET	SHAFT	CAP	KNOB ASSY	SPRING & SPACER	ASSY HANDLE	SAFETY ITEMS 22, 22A 24, 25, 26 27, 28 & 29
PART #						(22A)		(21)		(24)	(25)	(26)	(22)	(27, 28 &29)		
Chevrolet Caprice	1	2.95	0.47	6.28	7	Plastic	0.04	Zinc Chrome	1.75	0.20	0.08	0.08	0.36	0.06	0.38	0.82
Chevrolet Malibu	2	2.94	0.47	6.26	7	Plastic	0.04	Zinc Chrome	1.74	0.20	0.08	0.08	0.36	0.06	0.38	0.82
Chevrolet Cavalier	3	2.95	0.47	6.28	7	Plastic	0.04	Zinc Chrome	1.75	0.20	0.08	0.08	0.36	0.06	0.38	0.82
Ford Crown Victoria	4	2.66	0.56	4.75	7	Plastic	0.04	Zinc Chrome	1.80	—	0.04	0.04	0.16	0.10	0.48	0.38
Ford LTD	5	2.64	0.55	4.80	7	Plastic	0.02	Zinc Chrome	1.81	—	0.04	0.04	0.16	0.10	0.47	0.36
Ford Mustang	6	2.65	0.56	4.73	7	Plastic	0.02	Zinc Chrome	1.81	—	0.04	0.04	0.16	0.10	0.48	0.36
Chrysler Fifth Ave.	7	2.37	0.40	5.93	6	Plastic	0.04	Zinc Chrome	1.70	0.02	0.02	0.04	0.37	0.04	0.14	0.53
Chrysler "E" Class	8	2.32	0.38	6.11	5	Plastic	0.04	Zinc Chrome	1.70	0.02	0.02	0.04	0.36	—	0.14	0.48
Plymouth Reliant	9	2.32	0.38	6.11	5	Plastic	0.04	Zinc Chrome	1.70	0.02	0.02	0.04	0.36	—	0.14	0.48
AMC Renault/Alliance	10	0.69	0.24	2.88	5	Plastic	0.02	Plastic	0.19	—	0.04	—	0.10	0.14	0.20	0.30
Toyota Tercel	11	0.75	0.18	4.17	2	Plastic	0.25	Plastic	0.36	—	—	—	—	—	0.14	0.26
Nissan Sentra	12	0.75	0.18	4.17	2	Plastic	0.25	Plastic	0.36	—	—	—	—	—	0.14	0.26

TABLE 4

WINDOW REGULATOR HANDLE FRONT DOOR 1 RT. & 1 LT.

VEHICLE MAKE/MODEL	VEHICLE NO.	A SAFETY SYSTEM COST	B NO. OF VEHICLES PRODUCED	C WEIGHTED COST (A X B)
Chevrolet Caprice	1	$2.95	676,907	$ 1,996,876
Chevrolet Malibu	2	2.94	978,105	2,875,629
Chevrolet Cavalier	3	2.95	1,168,189	3,446,158
Ford Crown Victoria	4	2.66	152,454	405,528
Ford LTD	5	2.64	420,858	1,111,065
Ford Mustang	6	2.65	219,159	580,771
Chrysler Fifth Ave.	7	2.37	123,684	293,131
Chrysler "E" Class	8	2.32	119,009	276,101
Plymouth Reliant	9	2.32	338,652	785,673
AMC Renault/Alliance	10	0.69	142,205	98,121
Toyota Tercel	11	0.75	147,965	110,974
Nissan Sentra	12	0.75	209,889	$ 157,417
TOTAL			4,697,076	$12,137,418

Safety System Weighted Average Cost = $2.58.

Safety System Weighted Average Cost - Column B Total Divided By Column A Total.

INTERIOR DOOR RELEASE HANDLES

At one time, most inside door release handles were crescent shaped, chrome plated zinc die castings and extended into the passenger compartment enough to cause injury if an occupant happened to be thrown against it. Most current door release handles are either built into the arm rest or flush with the door inner trim panel. The large cost difference (Caprice $4.25 to Sentra $.92) is apparently due to material selection dictated by styling or design and not specifically for safety reasons. All those studied were assumed equally safe. General Motors, Ford and Chrysler high line cars have the most costly door release handles ($4.25 to $3.82). All use a chrome plated zinc die cast handle and steel housing or well. The Reliant, Malibu, Cavalier and Alliance use similar handles and plastic housings or no housing at all. The remaining five (5) cars use plastic handles and Sentra, the least costly ($.92) uses no housing.

TABLE 5

DOOR RELEASE HANDLES FRONT DOOR 1 RT. & 1 LT. ALL COSTS ARE PER CAR

VEHICLE MAKE/MODEL	NO.	COST	WT. LB.	$/LB.	NO. PCS.	HOUSING MATL	HOUSING COST	HANDLE MATL	HANDLE COST	RETURN SPRING	BUMPER	ROLL PIN	DUST SHIELD	ASSY COST	BRKT	PAWL & PIN	LOCK	SAFETY ITEMS 52, 56, 57 60, 64, 65 67 & ½ of 51	OTHER** COST
PART #						(52)		(53)		(55)	(56)	(57)	(58&63)	(51)	(60)	(64&65)	(67)		
Chevrolet Caprice	1	4.25	1.51	2.81	6	HRS	0.62	Zinc Chrome	2.14	0.34	0.12	0.19	0.18	0.66	—	—	—	1.12	—
Chevrolet Malibu	2	2.67	0.84	3.18	4	—	—	Zinc Chrome	1.84	0.16	—	0.08	—	0.33	0.26	—	—	0.52	—
Chevrolet Cavalier	3	2.50	0.59	4.24	4	—	—	Zinc Chrome	1.69	0.16	—	0.06	—	0.33	0.26	—	—	0.48	0.48
Ford Crown Victoria	4	4.24	1.70	2.49	11	CRS	0.56	Zinc Chrome	1.98	0.26	0.08	0.08	—	0.58	0.42	0.09	—	1.51	0.19
Ford LTD	5	1.18	0.26	4.54	6	ABS Plastic	0.22	ABS Plastic	0.16	0.14	—	0.02	—	0.54	—	0.10	—	0.61	—
Ford Mustang	6	1.18	0.26	4.54	6	ABS Plastic	0.22	ABS Plastic	0.16	0.14	—	0.02	—	0.54	—	0.10	—	0.61	—
Chrysler Fifth Ave.	7	3.82	1.11	3.44	8	—	—	Zinc Chrome	1.77	0.18	0.11	0.08	0.12	0.44	1.44	—	—	1.46	0.08
Chrysler "E" Class	8	1.51	0.33	4.58	8	PP Plastic	0.17	PP Plastic	0.15	0.18	0.07	0.08	—	0.56	—	0.22	0.08	0.88	—
Plymouth Reliant	9	3.13	0.65	4.82	8	PP Plastic	0.17	Zinc Chrome	1.77	0.18	0.07	0.08	—	0.56	—	0.22	0.08	0.84	—
AMC Renault/Alliance	10	2.35	0.52	4.52	5	ABS Plastic	0.80*	Zinc Chrome	1.30	0.12	—	—	—	0.12	—	—	—	0.86	<0.01
Toyota Tercel	11	1.69	0.49	3.45	7	PC Plastic	0.22	PC Plastic	0.15	—	—	0.10	—	0.60	0.40	0.02	0.18	0.94	0.02
Nissan Sentra	12	0.92	0.28	3.29	5	—	—	PVC Plastic	0.14	0.14	—	0.04	—	0.38	0.20	0.02	—	0.45	—

*Includes Trim Ring PT #54.

**This chart contains a list of parts whose costs have a significant effect on the cost difference of the safety features between car lines.

Other costs include those remaining components whose cost varies little from car to car.

TABLE 6

DOOR RELEASE HANDLES FRONT DOOR 1 RT. & 1 LT.

VEHICLE MAKE/MODEL	VEHICLE NO.	A SAFETY SYSTEM COST	B NO. OF VEHICLES PRODUCED	C WEIGHTED COST (A X B)
Chevrolet Caprice	1	$4.25	679,907	$ 2,876,855
Chevrolet Malibu	2	2.67	978,105	2,611,540
Chevrolet Cavalier	3	2.50	1,168,189	2,920,472
Ford Crown Victoria	4	4.24	152,454	646,405
Ford LTD	5	1.18	420,858	496,612
Ford Mustang	6	1.18	219,159	258,608
Chrysler Fifth Ave.	7	3.82	123,684	472,473
Chrysler "E" Class	8	1.51	119,009	179,704
Plymouth Reliant	9	3.13	338,652	105,998
AMC Renault/Alliance	10	2.35	142,205	334,182
Toyota Tercel	11	1.69	147,965	250,061
Nissan Sentra	12	0.92	209,889	193,098
TOTAL			4,697,076	$12,299,990

Safety System Weighted Average Cost = $2.62.

Safety System Weighted Average Cost - Column B Total Divided By Column A Total.

ARM RESTS

Arm rests must comply with FMVSS 201 in that it must either collapse on impact or present no unpadded areas that could come in contact with an occupant in the course of an accident.

The usually conservative AMC Renault/Alliance has the most expensive arm rest ($5.57). Although it is not the heaviest, it has the largest number of parts (6) most others have three (3), the highest assembly cost, a $1.10 trim plate and an integral assist handle. The Crown Victoria arm rest is the second most costly ($4.33). It is heavier and longer than the Renault/Alliance, but has only three (3) pieces. The next four in descending order of cost are the Cavalier, Reliant, L.T.D., and Mustang. All have integral assist handles. The remaining six (6) cars have relatively plain arm rests and their costs are relative to their size and weight.

TABLE 7

ARM REST FRONT DOOR 1 RT. & 1 LT. ALL COSTS ARE PER CAR

VEHICLE MAKE/MODEL	NO.	COST	WT. LB.	$/LB.	NO. PCS.	FOAM PAD	SUPPORT MATL	SUPPORT COST	REINFORCEMENT MATL	REINFORCEMENT COST	COVER MATL	COVER COST	ASSY	CLIP & PLUG	TRIM PLATE	STUD MTG.	SAFETY ITEMS 02, 03 & 05 & ½ of 01
PART #						(02)	(03)		(04)		(05)		(01)	(06 & 13)	(11)	(12)	
Chevrolet Caprice	1	3.55	3.06	1.16	4	<0.01	PVC	1.72	CRS	0.68	PVC	0.76	0.38	—	—	—	2.68
Chevrolet Malibu	2	2.50	1.66	1.51	3	0.30	—	—	HRS	0.86	PVC	1.08	0.26	—	—	—	1.51
Chevrolet Cavalier	3	4.26	2.68	1.59	6	0.12	ABS	1.42	ALUM	0.36	PVC	1.78	0.50	0.08	—	—	3.57
Ford Crown Victoria	4	4.33	4.08	1.06	3	0.94	URET.	1.54	—	—	PVC	1.58	0.27	—	—	—	4.19
Ford LTD	5	3.55	2.89	1.23	2	—	—	—	ABS	1.81	PVC	1.28	0.46	—	—	—	1.51
Ford Mustang	6	3.55	2.89	1.23	2	—	—	—	ABS	1.81	PVC	1.28	0.46	—	—	—	1.51
Chrysler Fifth Ave.	7	1.73	0.89	1.94	3	0.18	—	—	PVC	0.61	PVC	0.68	0.26	—	—	—	0.99
Chrysler "E" Class	8	1.49	0.81	1.84	3	0.14	—	—	PVC	0.36	PVC	0.73	0.26	—	—	—	0.99
Plymouth Reliant	9	3.73	2.37	1.57	3	—	—	—	PVC	1.27	PVC	1.38	0.10	—	0.98	—	1.43
AMC Renault/Alliance	10	5.57	3.03	1.84	6	0.12	FOAM	0.36	ABS	1.38	PVC	1.16	0.97	—	1.10	0.48	2.12
Toyota Tercel	11	1.65	1.51	1.09	4	—	PLYP	0.48	GALV. STEEL	0.42*	PVC	0.57	0.18	—	—	—	1.15
Nissan Sentra	12	0.69	0.41	1.68	3	0.09	ABS	0.22	—	—	VINYL	0.11	0.27	—	—	—	0.66

*Includes Assist Handle Reinforcement.

TABLE 8

ARM REST FRONT DOOR 1 RT. & 1 LT.

VEHICLE MAKE/MODEL	VEHICLE NO.	A SAFETY SYSTEM COST	B NO. OF VEHICLES PRODUCED	C WEIGHTED COST (A X B)
Chevrolet Caprice	1	$3.55	676,907	$ 2,403,020
Chevrolet Malibu	2	2.50	978,105	2,445,263
Chevrolet Cavalier	3	4.26	1,168,189	4,976,485
Ford Crown Victoria	4	4.33	152,454	660,126
Ford LTD	5	3.55	420,858	1,494,046
Ford Mustang	6	3.55	219,159	778,014
Chrysler Fifth Ave.	7	1.73	123,684	213,973
Chrysler "E" Class	8	1.49	119,009	177,323
Plymouth Reliant	9	3.73	338,652	1,263,172
AMC Renault/Alliance	10	5.57	142,205	792,082
Toyota Tercel	11	1.65	147,965	244,142
Nissan Sentra	12	0.69	209,889	144,823
TOTAL			4,697,076	$15,592,469

Safety System Weighted Average Cost = $3.31.

Safety System Weighted Average Cost - Column B Total Divided By Column A Total.

SUNVISORS

Sunvisors are considered a possible injury source and are included in FMVSS 201, Section 3.4 which states: "Two sunvisors shall be provided that are constructed of or covered with energy absorbing materials" and "Each sunvisor mounting shall present no rigid material edge radius of less than 0.125 inch that is statically contactable by a spherical 6.5 inch diameter head form". Sunvisor costs vary from a high of $5.60 (Malibu) to a low of $2.84 (Sentra). However, most of this difference is in the hinge rod and mounting bracket. The three Chevrolets use chrome plated zinc hinge rod and mounting bracket for a styling penalty of $2.33 over Sentra's plastic rod and bracket. The two items considered safety related are the pad (31) and cover (30). In these two parts, Malibu and Sentra are only one cent ($.02) apart. The remaining cars safety related costs vary according to their choice of energy absorbing material used.

TABLE 9

SUNVISORS ALL COSTS ARE PER CAR

VEHICLE MAKE/MODEL	NO.	COST	WT. LB.	$/LB.	NO. PCS.	PAD MATL	PAD COST	COVER MATL	COVER COST	HINGE BRACKET MATL	HINGE BRACKET COST	HINGE BRKT REINF	SPRING	HINGE ROD ASSY PCS	HINGE ROD ASSY COST	STIFFENER	SAFETY ITEMS 30 & 31	OTHER** COST
PART #						(31)		(30)		(22)		(23)	(27)	(21)		(29)		
Chevrolet Caprice	1	5.33	2.20	2.42	13	PAPER	0.11	NYLON	0.24	ZINC/ CHROME	0.93	0.36	0.10	2	1.56	0.54	0.35	1.49
Chevrolet Malibu	2	5.60	1.94	2.89	15	FIBER GLASS	0.53	NYLON	0.17	ZINC/ CHROME	0.94	0.24	0.10	2	1.56	0.20	0.70	1.86
Chevrolet Cavalier	3	5.40	2.48	2.18	15	PAPER	0.09	NYLON	0.34	ZINC/ CHROME	0.93	0.26	0.10	2	1.56	0.26	0.43	1.86
Ford Crown Victoria	4	5.25	1.94	2.71	12	PAPER	0.13	RUBBER & FIB. GLASS	0.92	ZINC/ CHROME	0.90	0.24	0.09	1	1.18	0.21	1.05	1.58
Ford LTD	5	5.13	1.71	3.00	12	PAPER	0.11	RUBBER & NYLON	0.70	ZINC/ CHROME	0.90	0.24	0.09	1	1.32	0.20	0.81	1.57
Ford Mustang	6	4.80	1.70	2.82	13	FOAM	0.26	PLASTIC & PAPER	0.12	ZINC/ CHROME	0.90	0.22	0.09	1	1.32	0.20	0.38	1.69
Chrylser Fifth Ave.	7	4.33	2.28	1.90	12	PAPER	0.09	GUILFORD CLOTH	0.72	ZINC/ PAINT	0.28	0.40	0.09	1	0.58	0.17	0.81	2.00
Chrysler "E" Class	8	4.25	1.78	2.39	12	PAPER	0.11	GUILFORD CLOTH	0.70	ZINC/ PAINT	0.24	0.24	0.09	1	0.66	0.21	0.81	2.00
Plymouth Reliant	9	4.26	1.88	2.27	12	PAPER	0.11	GUILFORD CLOTH	0.70	ZINC/ PAINT	0.24	0.24	0.09	1	0.66	0.23	0.81	1.99
AMC Renault/Alliance	10	2.90	1.33	2.18	*10+	FOAM & PAPER	0.62	RUB. COAT FIB. GLASS	0.20	PLASTIC	0.08	0.20	0.09	1	0.66	0.16	0.82	0.89
Toyota Tercel	11	3.89	1.06	3.67	13	FOAM	0.27	VINYL	0.38	PLASTIC	0.09	0.15	0.04	1	0.86	0.13	0.65	1.97
Nissan Sentra	12	2.84	0.78	3.64	12	FOAM	0.26	VINYL	0.42	PLASTIC	0.10	0.12	—	1	0.06	0.12	0.68	1.76

*The + Is A Common Stowage Bracket For The Right And Left Sunvisors.

*This chart contains a list of parts whose costs have a significant effect on the cost difference of the safety features between car lines.

Other Costs include those remaining components whose cost varies little from car to car.

TABLE 10

SUNVISORS

VEHICLE MAKE/MODEL	VEHICLE NO.	A SAFETY SYSTEM COST	B NO. OF VEHICLES PRODUCED	C WEIGHTED COST (A X B)
Chevrolet Caprice	1	$5.33	676,907	$ 3,607,914
Chevrolet Malibu	2	5.60	978,105	5,477,388
Chevrolet Cavalier	3	5.40	1,168,189	6,308,221
Ford Crown Victoria	4	5.25	152,454	800,383
Ford LTD	5	5.13	420,858	2,159,001
Ford Mustang	6	4.80	219,159	1,051,963
Chrysler Fifth Ave.	7	4.33	123,684	535,552
Chrysler "E" Class	8	4.25	119,009	505,788
Plymouth Reliant	9	4.26	338,652	1,442,657
AMC Renault/Alliance	10	2.90	142,205	412,394
Toyota Tercel	11	3.89	147,965	575,584
Nissan Sentra	12	2.84	209,889	$ 596,085
TOTAL			4,697,076	$23,472,932

Safety System Weighted Average Cost = $4.99.

Safety System Weighted Average Cost - Column B Total Divided By Column A Total.

INSTRUMENT PANELS

To comply with FMVSS 201, instruments panels must be padded to the extent that when that area of the instrument panel that is within the head impact area is impacted by a 15 pound 6.5 inch diameter head form at a relative velocity of 15 miles per hour, the deceleration of the head form shall not exceed 80G continuously for more than 3 milliseconds.

There are exceptions to the basic requirements that allow Nissan and Toyota to pad only the passenger's side of their instrument panel. It is possible that some of the other cars in this study could have complied with the standard by using the smaller passenger side pads, but because of styling or design chose to pad the entire instrument panel.

The Toyota Tercel uses a foam padding that forms its own skin in the mold and does away with the need for a separate cover, and in the process, saves about one dollar ($1.00) a car.

TABLE 11

INSTRUMENT PANEL PAD

VEHICLE MAKE/MODEL	NO.	COST	WT. LB.	$/LB.	NO. PCS.	FOAM	BASE SUPPORT MATL	BASE SUPPORT COST	COVER	RETAINERS	ASSY	ATTACH PARTS	REINF.	INSUL.	SAFETY ITEMS
PART #						(02)	(03, 11 & 15)		(04)	(05 & 06)	(01)	(07 & 16)	(08&10)	(09)	
Chevrolet Caprice	1	11.29	8.27	1.37	5	3.12	CRS	5.20	1.92	0.12	0.92	—	—	—	5.50
Chevrolet Malibu	2	14.02	9.25	1.52	3	1.15	ACRYLIC	8.60	2.92	—	1.35	—	—	—	4.75
Chevrolet Cavalier	3	15.00	10.25	1.46	3	1.27	ACRYLIC	9.44	2.94	—	1.35	—	—	—	4.89
Ford Crown Victoria	4	13.38	6.53	2.05	6	2.94	ABS	6.98	1.47	—	0.92	0.14	0.27	0.66	4.87
Ford LTD	5	12.78	4.53	2.82	4	1.31	ABS	8.99	1.44	—	0.92	0.12	—	—	3.21
Ford Mustang	6	12.78	4.53	2.82	4	1.31	ABS	8.99	1.44	—	0.92	0.12	—	—	3.21
Chrysler Fifth Ave.	7	8.64	5.96	1.45	6	0.81	CRS	4.58	1.80	—	0.92	0.15	0.39	—	3.07
Chrysler "E" Class	8	14.68	5.78	2.54	4	2.58	ABS	8.66	2.36	—	0.92	0.16	—	—	5.40
Plymouth Reliant	9	14.68	5.78	2.54	4	2.58	ABS	8.66	2.36	—	0.92	0.16	—	—	5.40
AMC Renault/Alliance	10	13.27	4.76	2.79	3	1.60	ABS	9.33	1.41	—	0.92	—	—	—	3.47
Toyota Tercel	11	3.04	2.81	1.08	3	0.84	CRS	1.43	—	—	0.77	—	—	—	1.23
Nissan Sentra	12	3.23	1.75	1.85	5	0.69	CRS	0.48	1.02	0.12	0.92	—	—	—	2.17

TABLE 12

INSTRUMENT PANEL PAD

VEHICLE MAKE/MODEL	VEHICLE NO.	A SAFETY SYSTEM COST	B NO. OF VEHICLES PRODUCED	C WEIGHTED COST (A X B)
Chevrolet Caprice	1	$11.29	676,907	$ 7,642,280
Chevrolet Malibu	2	14.02	978,105	13,713,032
Chevrolet Cavalier	3	15.00	1,168,189	17,522,835
Ford Crown Victoria	4	13.38	152,454	2,039,834
Ford LTD	5	12.78	420,858	5,378,565
Ford Mustang	6	12.78	219,159	2,800,852
Chrysler Fifth Ave.	7	8.64	123,684	1,068,630
Chrysler "E" Class	8	14.68	119,009	1,747,052
Plymouth Reliant	9	14.68	338,652	4,971,411
AMC Renault/Alliance	10	13.27	142,205	1,887,060
Toyota Tercel	11	3.04	147,965	4,498,814
Nissan Sentra	12	3.23	209,889	677,941
TOTAL			4,697,076	$59,899,307

Safety System Weighted Average Cost = $12.75.

Safety System Weighted Average Cost - Column B Total Divided By Column A Total.

SEAT BACKS

That portion of the front seat back that is within the head impact area must withstand the impact of a 15 pound sphere, 6.5 inches in diameter, moving at a relative velocity of 15 miles per hours, and at impact, decelerate this head form in such a manner that it shall not exceed an 80G force for more than 3 milliseconds.

The object of including seat backs (upper six inches) in this study was to determine the cost of compliance for each of the auto manufacturers, in meeting the requirements of this standard. Representatives of the domestic auto manufacturers were asked, what original change or upgrading was necessary to meet the standard when it was first introduced. Without exception, all answered that as far as they knew all seat padding was in compliance before the introduction of the standard, and the only changes since the standard was introduced was for styling and upgrading for customer comfort.

To follow the example of previous studies, the portion of the front seat back included in this study was the top six inches of foam and cover plus any support that extends into this area. Only material costs are used unless a part is wholly contained in the upper six inches of the seat back; otherwise we assumed very little additional labor was required to mold the pad or cut and sew the cover.

Standard equipment seats were used to avoid the complication that extra padding in the luxury or option seats may cause. But true to Murphy's Law, other complications arose, some of the cars studied have standard split bench seats and do not offer a bucket seat option, some have bucket seats standard without a bench option, some are high backed without head rests and some come standard with head rests.

The real problem is what to attribute these costs or cost differences to - seat type, styling, comfort and luxury, or passenger protection, and how is passenger protection evaluated in the upper seat back without including head rests.

The seat back upper six inch costs range from $2.37 for the "E" Class and Reliant to $0.31 for the Toyota Tercel.

TABLE 13

SEAT BACK PADDING FRONT 1 RT. & 1 LT. ALL COSTS ARE PER CAR

VEHICLE MAKE/MODEL	NO.	COST	WT. LB.	$/LB.	NO. PCS.	MAIN PAD	CROWN SUPPT	BORDER WIRE	WIRE COVER	VELCRO PAD	BATTEN	SAFETY ITEMS (ALL)
PART #						(02)	(04)	(05)	(06)	(08)	(07)	
Chevrolet Caprice	1	1.51	1.57	0.96	3	1.30	----	0.01	0.20	----	----	1.51
Chevrolet Malibu	2	1.81	1.57	1.15	4	1.09	0.51	0.01	0.20	----	----	1.81
Chevrolet Cavalier	3	1.58	1.47	1.07	2	1.12	0.46	----	----	----	----	1.58
Ford* Crown Victoria	4	1.36	1.81	0.75	2	1.27	----	0.09	----	----	----	1.36
Ford LTD	5	1.43	1.42	1.01	3	0.91	0.50	0.02	----	----	----	1.43
Ford Mustang	6	1.65	1.48	1.11	3	0.90	0.71	0.04	----	----	----	1.65
Chrysler Fifth Ave.	7	1.97	1.84	1.07	3	1.02	0.89	0.06	----	----	----	1.97
Chrysler "E" Class	8	2.37	2.05	1.16	3	1.17	1.14	0.06	----	----	----	2.37
Plymouth Reliant	9	2.37	2.05	1.16	3	1.17	1.14	0.06	----	----	----	2.37
AMC Renault/Alliance	10	0.78	0.77	1.01	2	0.64	----	----	----	0.14	----	0.78
Toyota Tercel	11	0.31	0.37	0.84	1	0.31	----	----	----	----	----	0.31
Nissan Sentra	12	1.03	0.81	1.27	2	0.67	----	----	----	----	0.36	1.03

*Bench Seat.

TABLE 14

SEAT BACK PADDING FRONT 1 RT. & 1 LT.

VEHICLE MAKE/MODEL	VEHICLE NO.	A SAFETY SYSTEM COST	B NO. OF VEHICLES PRODUCED	C WEIGHTED COST (A X B)
Chevrolet Caprice	1	$1.51	676,907	$1,022,130
Chevrolet Malibu	2	1.81	978,105	1,770,370
Chevrolet Cavalier	3	1.58	1,168,189	1,845,739
Ford* Crown Victoria	4	1.36	152,454	207,337
Ford LTD	5	1.43	420,858	601,827
Ford Mustang	6	1.65	219,159	361,612
Chrysler Fifth Ave.	7	1.97	123,684	243,657
Chrysler "E" Class	8	2.37	119,009	282,051
Plymouth Reliant	9	2.37	338,652	802,605
AMC Renault/Alliance	10	0.78	142,205	110,920
Toyota Tercel	11	0.31	147,965	45,869
Nissan Sentra	12	1.03	209,889	216,186
TOTAL			4,697,076	$7,510,304

*Bench Seat

Safety System Weighted Average Cost = $1.60.

Safety System Weighted Average Cost - Column B Total Divided By Column A Total.

DISCUSSION

A work flow diagram of the methodology used for this contract is shown in Figure 1. A discussion of each element of the work plan as used for this program is provided on the following pages. The discussion applies to the analysis of all of the Standards as a common work plan was used.

SELECTION

In order to obtain a representative overview of the changes in the system involved in this study without incurring excessive program cost, it was necessary to establish an integrated cost sampling plan. This plan was designed to provide typical systems of the major makes and sizes of vehicles without the need to individually examine every make/model produced in the affected years. The selection of a key model to represent several models from the same manufacturer is possible because of current industry practice which utilizes common structure and mechanisms for all makes/models sharing a common body size. For example, all compact size makes in the General Motors family use common glove compartment latches, door handles, steering systems, etc. As a result, analysis of Chevrolet Cavalier components would also cover the systems for a Buick Skyhawk, Oldsmobile Firenza and Pontiac 2000 models.

To prevent costs inflated by expensive material and trim applications, the vehicles selected were low or middle of the line cars without optional extras that could affect the components we used, such as vanity sun visors, high line or luxury seats, arm rests, etc.

Those cars selected for this study were to be high volume representatives of all the various size classifications and be carry-over models or direct descendants of those in previous related studies. The sampling also included cars downsized by weight reductions, recently redesigned models representing smaller, more efficient vehicles with four and six cylinder engines, rack and pinion steering and front wheel drive.

ACQUISITION

As directed by the Statement of Work for this contract, actual parts from the selected vehicle systems were procured for comparison and analysis. As many of the required components as possible were purchased from automotive part recycle (junk) yards, that specialize in late model wrecks. The parts were removed by, or in the presence of a Pioneer technician, to insure the parts were from the proper year and

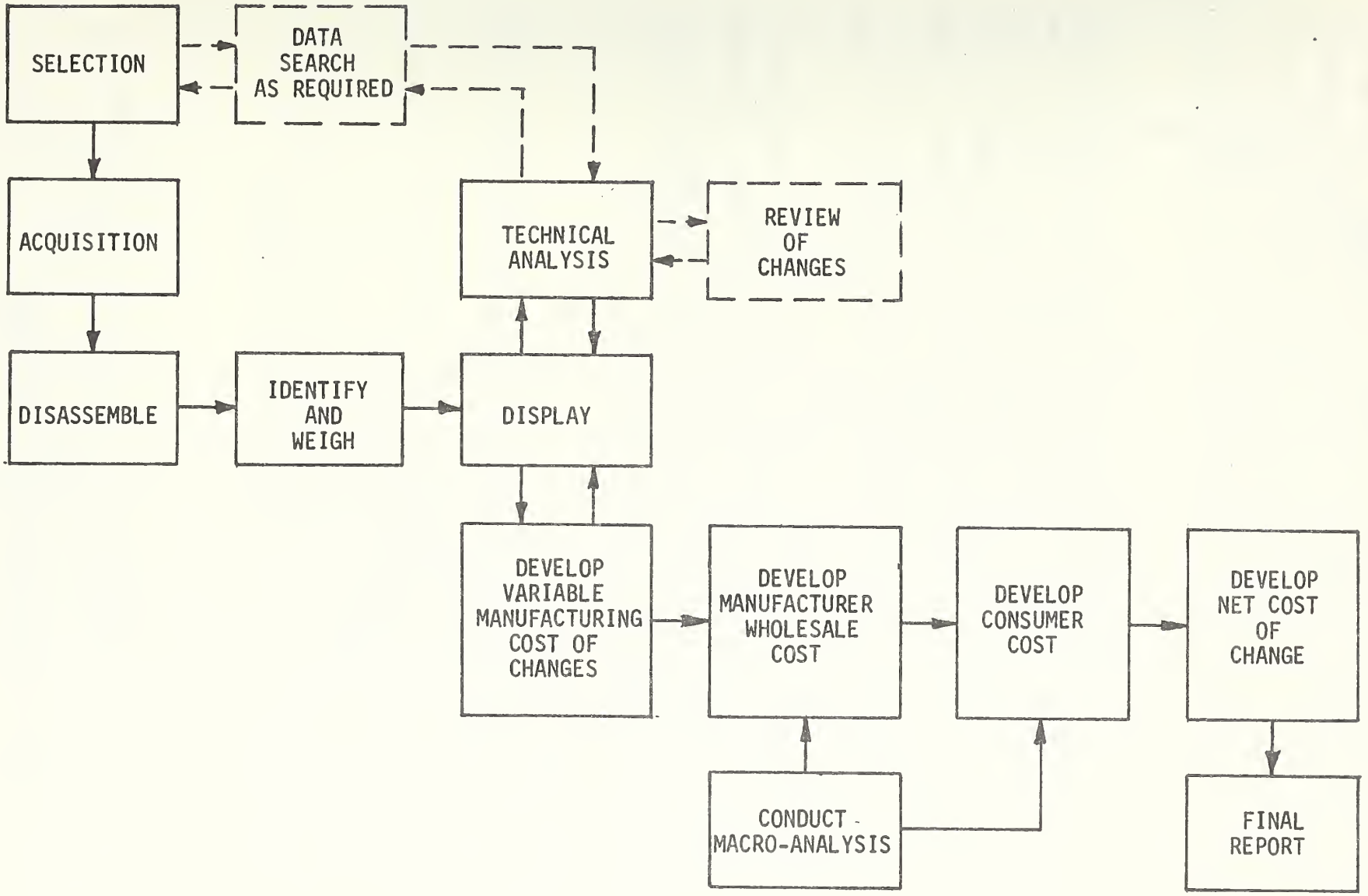


Figure 1

Work Flow Diagram

model. Approximately 85% of the parts were purchased in this manner. The remainder were ordered from automobile dealerships. This worked out very well for Standards 201, 203 and 204, but seat belt anchors were not usually available as service parts and those that were, were so dissimilar to the original parts that they couldn't be used. Our only choice was to search far and wide until we found those required.

DISASSEMBLY

Upon receipt, or as soon as possible thereafter, the components and sub-assemblies were completely disassembled, cleaned, weighed (Ohaus gram balance scale), tagged (see Figure 2), and identified as to car manufacturer, model, year, assembly, part name, part number and quantity per vehicle. The parts were then packed in a box with the name and year of the car and assembly it came from. Because of the similarity of parts from car to car, it was necessary to take every precaution to prevent losing the individual components or allowing their being mixed with similar parts from another car.

Most of the assemblies involved in this type of study are not manufactured to be repaired or disassembled. Consequently, we found parts to be clinched, spot welded or even arc welded together, and disassembly was carried out with some discretion to prevent destroying the parts or distorting them to the extent the process analysist would have difficulty determining their manufacturing process.

IDENTIFICATION AND WEIGHING

To insure proper identification of all components for further processing or later reference, three methods were utilized:

- An identification tag was prepared for each individual part or assembly, and attached as the disassembly progressed.
- A complete parts list was prepared for the components of each system.
- A photograph was taken of the components for each system.

DISPLAY

After completing the identification and weighing, components were displayed on vertical boards to facilitate the analysis of changes between comparable systems. Parts were displayed in approximate car position and in proper functional relationship to each other. The report photographs were taken of these displays. The photographing

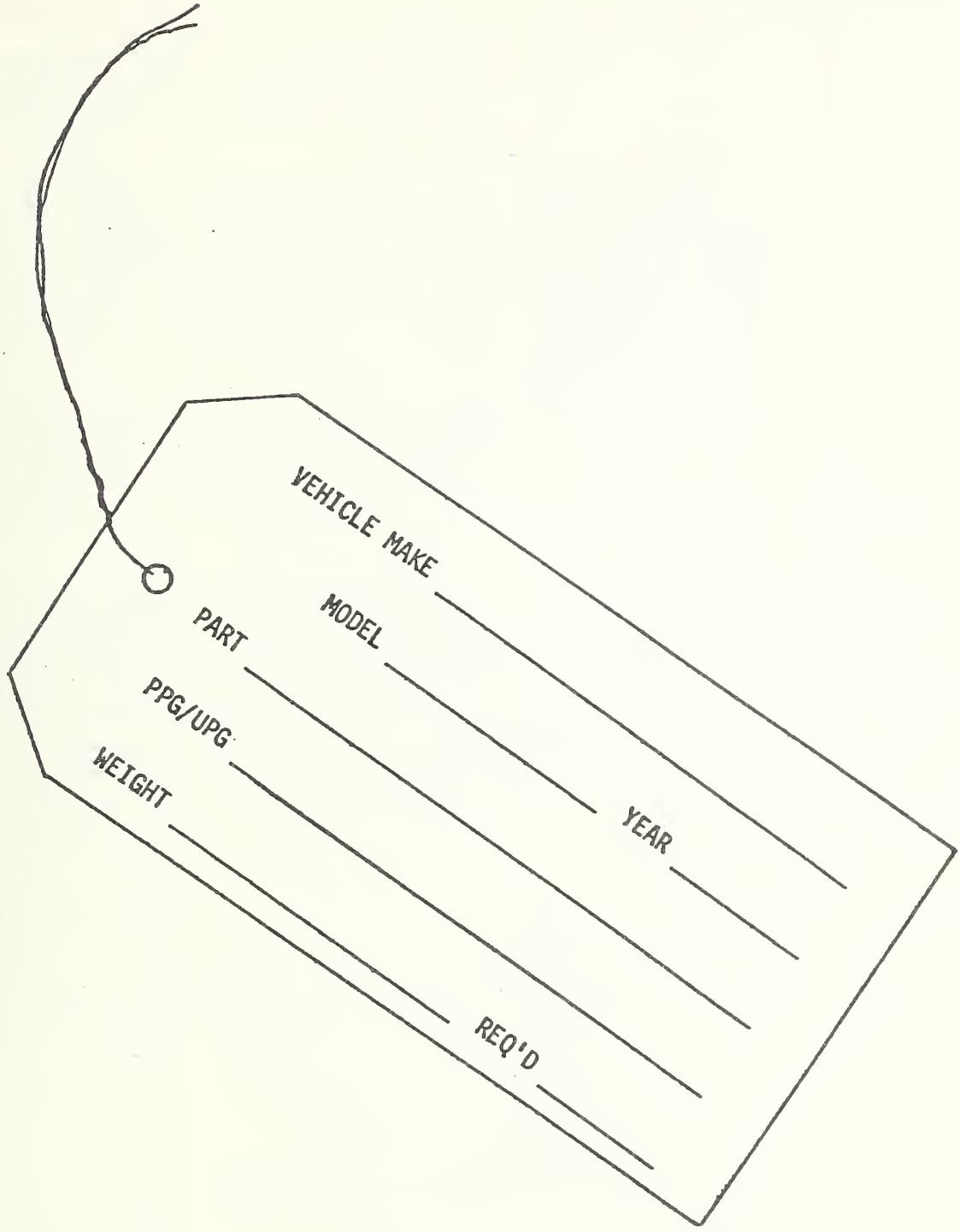


Figure 2

Sample Part Identification Tag

process used a central position and a common distance so that all parts in the photographs are practically distortion free and comparable for size. Mounting holes on the board are at 1 inch intervals and therefore provide a convenient scale for estimating actual part size.

While the parts were thus displayed, a complete parts list of each system was prepared as a guide for future reference. The parts list was organized in the same order as the photograph and individual part identification numbers were assigned to facilitate cross-reference. (See Table 15, Part Numbering System and Table 15A, Automobile Make and Model Identification).

Parts lists and photographs of all parts of each system will be found in the Sections relating to each Standard. The lists and photographs will be found adjacent to each other for ease of identification. The identification number also provides convenient cross-reference.

Seat Belt Anchor Photographs - In most cases, the seat belt anchor nut, reinforcing plate, and the panel it was attached to were rusted together to the extent they would be indistinguishable as separate items in a photograph. To facilitate identification, the rust was removed and the parts painted, the reinforcing plate grey and the nut black. In a few cases, parts of the reinforcing plate actually crumbled away during rust removal. The part outline had to be restored with paper or foil and painted grey for photographing.

TECHNICAL ANALYSIS

As parts from comparable vehicle system became available they were analyzed to determine:

- Differences between models
- The reasons for the differences
  - To meet the requirements of the Standards
  - Styling
  - Cost Reduction
  - Product Improvement (Functional improvements not related to the requirements of the Standards)

A summary of this analysis for each vehicle is provided adjacent to the corresponding parts list and photographs.

TABLE 15

PART NUMBERING SYSTEM

The part numbers are derived from a "Master Bill of Material" that contains all of the component parts and subassemblies for a given assembly or system. Thus a glove compartment release knob for a Chevrolet will appear on the same line of its Bill of Material, and have the same item number as any glove compartment release knob for any vehicle in the study. Following is a detailed breakdown and explanation of the numbering system.

Ford (Full Size)	1983	Board 4 (Seat Back Pad)	Border Wire
04	83	4	04A
Vehicle	Year	Photograph Number	Item Number
The first and second numbers indicate mfg. and model (car size) (01-22).	The third and fourth numbers indicate the year (1963-1983).	The fifth number is the photograph board number (1-7).	The sixth, seventh and eighth (when necessary) numbers indicate the part as it appears on the Master Part List, Detail Process Sheet, Computer Cost Sheet and Photograph.

TABLE 15A

AUTOMOBILE MAKE AND MODEL IDENTIFICATION

NUMBER	MAKE	SIZE*	MODEL
01	Chevrolet	Standard	Impala-Caprice
02	Chevrolet	Intermediate	Malibu
03	Chevrolet	Compact	Cavalier
04	Ford	Standard	Crown Victoria
05	Ford	Intermediate	Fairlane-LTD
06	Ford	Compact	Mustang
07	Chrysler	Standard	5th Avenue
08	Chrysler	Intermediate	"E" Class
09	Chrysler	Compact	Valiant-Reliant
10	A.M.C.	Subcompact	American, Gremlin, Alliance
11	Toyota	Subcompact	Corona, Tercel
12	Nissan	Subcompact	Sentra
13	Chevrolet	Standard	Pickup, C-10
14	Chevrolet	Light	Pickup, S-10
15	Ford	Standard	Pickup, F-150
16	Ford	Light	Pickup, Ranger
17	Chevrolet	Standard	M.P.V., Blazer
18	Ford	Standard	M.P.V., Bronco
19	Chrysler	Standard	M.P.V., Ram Charger
20	A.M.C.	Standard	M.P.V., Jeep
21	Nissan	Light	Pickup
22	Toyota	Light	Pickup

*Size Classification Per Automotive News

The net result of this analysis is the accurate and complete identification of all changes in the component parts of the selected systems which are attributable to the requirements of the specified FMVSS.

MICRO-ANALYSIS

All components identified in the previous Technical Analysis as changed because of the implementation of the FMVSS were cost analyzed to determine their consumer price. This detailed cost determination is known as a Micro-Analysis. It has been used by Pioneer and other contractors to establish accurate costs of manufactured products. By this method, manufacturing costs are determined by a detailed analysis of the processes used to produce the parts.

The analysis of each part is based on utilizing high volume efficient manufacturing methods and equipment as used by the large U.S. vehicle manufacturers. This analysis, at Pioneer is conducted by manufacturing process engineers who had previously performed these studies at major automobile companies. This process provides a much more accurate estimate of manufacturing cost than short cut methods based on material weight or other part characteristics.

By actual analysis of each part, the Micro-Analysis process determines the following base elements of variable manufacturing cost:

Material - The component analysis establishes the type of material used for the part. The measured weight of the finished part is then modified (based on the process analysis - see Labor) for the amount of material removed in the manufacturing processes which provides the rough or purchased material weight. This weight (in pounds) is then multiplied by the current cost per pound contained in Pioneer's data processing file to provide the net material cost of the part.

Labor - Each identified component is analyzed by manufacturing process engineers to establish the individual operations required to manufacture the part by high volume automotive practice. The analysis provides the amount of labor time necessary to handle the part through the various operations. The total labor time multiplied by current labor rates contained in Pioneer's data processing file provides the net labor content of the part cost. (In certain cases more than one labor rate may be applicable to the manufacture of a part.)

Burden - The process analysis of each part also includes the determination of the type of manufacturing equipment required for each operation plus the time cycle on the machine to provide the required operations. The time required on each piece of equipment (commonly called occupancy time) multiplied by the burden rate for the equipment contained in Pioneer's data processing file provides the burden cost applicable to each operation. The sum of these for all operations on a part provides the burden cost factor of the variable manufacturing cost.

The total VARIABLE MANUFACTURING COST for each part is the sum of the MATERIAL, LABOR and BURDEN elements determined by the Micro-Analysis process.

The individual process elements as determined by the process engineer's analysis are recorded on a worksheet(s) for each part. A sample of the work sheet used by Pioneer is shown in Figure 3.

The work sheets with the part process data are supplied to Pioneer's data processing center where cost values are provided by the computer from cost factors (labor rates, burden rates, etc.) contained in the data bank. A sample of the cost data printout sheet is shown in Figure 4. This data processing capability effectively eliminates the potential for routine mathematical errors as well as greatly speeding up the data processing time.

Coincident with the determination of variable manufacturing cost for each part, the cost of the tools necessary for each operation is also determined. This item is provided on the work sheet and carried over onto the printout sheet for reference.

MACRO-ANALYSIS

In order to calculate the consumer price of a component, it is first necessary to determine the manufacturers' wholesale price or the price he charges the retail dealer. This price consists of the variable manufacturing cost of the component plus cost elements such as fixed burden, administration, research and development, profit, etc. The difference between variable manufacturing cost and wholesale price for a given manufacturer can be determined by a process known as Macro-Analysis. This process analyzes corporate financial statements such as annual reports and 10-K reports filed with the Securities and Exchange Commission to separate elements of variable manufacturing cost - labor, purchased material which would include raw material, and applicable variable burden from the income received from selling manufactured goods.

ESTIMATING DEPARTMENT OPERATION SHEET

VOLUME	PART NO.	PART NAME	PCS. REQ.

PPG/UPG NO.	MATL. CODE	COST/LB.	OTHER COST	RGH. WT.	FIN. WT.	SCRAP	MARK-UP	EQUIP. RATE V C
						____ %	____ %	☐ ☐

OPER	OPERATION DESCRIPTION	EQUIP. CODE	M/P	LABOR MINS.	TOOLING $(000)	MATERIAL SPECS & BACK-UP DATA
						SKETCH

NEXT ASM.	DWG. DATE	JOB NO.			ENGINEER	DATE	PAGE ___ OF ___	PART NO.

PEM 6-83 DF

Figure 3

VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST: MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
CHEVROLET CAPRICE		1		17.3369	29.6282	.6866	.7238	31.0386	44.6031	50.6699	1684.0
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2589	.3213	.5948	.6570	1.5731	2.2607	2.5682	372.5
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.4748	3.1290			3.1290	4.4962	5.1078	362.0
ASM - DOOR HANDLE	83151	2	ASSY	1.5118	4.2546			4.2546	6.1140	6.9456	276.0
ASM - ARM REST	83201	2	ASSY	3.0550	3.5500			3.5500	5.1014	5.7952	241.0
ASM - SUNVISOR	83220	2	ASSY	2.1976	5.7362			5.7362	8.2432	9.3646	261.5
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	8.2720	11.2903			11.2903	16.2244	18.4311	171.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.5668	1.3468	.0918	.0668	1.5054	2.1632	2.4574	
ASSEMBLY COST											

* *

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2589	.3213	.5948	.6570	1.5731	2.2607	2.5682	372.5
HOUSING - GLOVE BOX LOCK	83102	1	ZN	.0900	.0518	.0254	.0550	.1322	.1900	.2158	70.0
RELEASE KNOB	83103	1	ZN	.0435	.0300	.1261	.1672	.3233	.4646	.5278	67.0
SPRING - RELEASE BUTTON	83104	1	WIRE	.0028	.0170			.0170	.0244	.0277	
SPRING - RELEASE TRIGGER	83106	1	WIRE	.0006	.0170			.0170	.0244	.0277	
RETAINER - LOCK HOUSING	83107	1	ZN	.0178	.0103	.0116	.0265	.0484	.0696	.0791	50.0
KNOB - LOCK HOUSING	83109	1	ZN	.0510	.0288	.0116	.0265	.0669	.0961	.1092	60.0
LATCH - GLOVE BOX	83112	1	HRS	.0085	.0055	.0047	.0166	.0268	.0385	.0437	25.0
TUMBLER - GLOVE BOX LOCK	83113	5	BRS	.0040	.0230	.0085	.0290	.0605	.0870	.0990	50.0
TUMBLER SPRING	83114	5	WIRE	.0005	.0100			.0100	.0145	.0165	
STRIKER - GLOVE BOX LOCK	83115	1	STWR	.0191	.0099	.0088	.0320	.0507	.0729	.0828	40.0
ROLL PIN	83119A	1	AL	.0007	.0010			.0010	.0014	.0016	
MOUNTING SCREW	83119B	2	STL	.0204	.1100			.1100	.1580	.1794	
ASSEMBLY COST					.0070	.3981	.3042	.7093	1.0193	1.1579	10.5

Figure 4

The ratio of income from sales to variable costs as determined by this Macro-Analysis can then be applied to the estimated variable manufacturing cost for a component to provide an estimate of the wholesale price.

This ratio of variable manufacturing cost to wholesale price varies among industries and also between companies in the same industry. For this contract, NHTSA directed that an average value for the automotive industry should be used for the determination of wholesale price from the estimated manufacturing costs developed by this analysis.

The variable cost portion of income from sales (wholesale price) as determined from Macro-Analysis studies of the major U.S. automotive manufacturers is shown in Table 16. 1978 values have been used because of the extensive distortion of typical relationships resulting from the depressed economic conditions in the automotive industry in the past four years.

Based on the production weighted average developed from the Macro-Analysis (Table 16), the ratio of sales (wholesale price) to variable manufacturing cost is

$$100/74.78 = 1.337$$

However, NHTSA indicated that it wished to use a "normalized" factor for this study. It was obtained by using the ratio of average to most efficient values:

$$74.78/69.57 = 1.0749$$

The ratio of sales (wholesale price) to variable manufacturing cost used in this study is therefore:

$$1.337 \times 1.0749 = 1.437$$

Therefore, wholesale price is determined by the formula:

$$\text{Wholesale Price} = 1.437 \times \text{Variable Manufacturing Cost}$$

The above ratio (1.437) was programmed into the computer so that the wholesale price was automatically provided on the data printout sheet (Figure 4).

The determination of consumer price from manufacturers wholesale price is a function of the dealer discount which is applied to the manufacturers suggested retail price. Traditionally, this was around 20% but recent years have seen extensive reductions in this factor as a result of the introduction of smaller cars. NHTSA concurred with the use of the following as typical of current practice:

TABLE 16

VARIABLE COSTS AS PERCENT OF SALES
U.S. AUTOMOTIVE MANUFACTURERS - 1978

MANUFACTURER	VARIABLE COST %
General Motors	69.57
Ford	78.23
Chrysler	86.83
AMC	81.59
Average*	74.78

*Production Weighted

Domestic Vehicles 12.0%

Imported Vehicles 13.9%

Since this is a discount factor from published selling price, the formula for this study is:

Consumer Price = 1.136 x Wholesale Price (Domestic)

Consumer Price = 1.161 x Wholesale Price (Imported)

These ratios were also programmed into the computer so that consumer price was automatically provided on the data printout sheet following wholesale price (Figure 4).

The summation of individual component consumer price differentials provides the net consumer price effect of the FMVSS for comparable vehicle systems.

APPENDIX A

ABBREVIATIONS FOR MATERIALS
PART NUMBERING SYSTEM
COST SHEETS AND PHOTOGRAPHS

ABBREVIATIONS

NUMERICAL ORDER

MATERIAL TYPE	MATERIAL DESCRIPTION	
01	ACE	ACETATE
02	ADHE	ADHESIVE
03	AL	ALUMINUM
04	ASB	ASBESTOS
05	BRS	BRASS
06	BRZ	BRONZE
07	CAD	CADMIUM
08	CI	CAST IRON
09	CS	CAST STEEL
10	CER	CERAMIC
11	CLO	CLOTH
12	CCF	CLOTH & COATED FABRIC
13	CRS	COLD ROLLED STEEL
14	CU	COPPER
15	FAB	FABRIC
16	F/W	FABRIC & WIRE
17	FELT	FELT
18	FRG	FORGING
19	GLS	GLASS
20	GOLD	GOLD
21	HSLA	HI STRENGTH LOW ALLOY STEEL
22	HRS	HOT ROLLED STEEL
23	LEA	LEATHER
24	MAG	MAGNESIUM
25	MOLY	MOLYBDENUM
26	NEO	NEOPRENE
27	NI	NICKEL
28	NY	NYLON
29	PAP	PAPER
30	PA/W	PAPER & WIRE
31	PLAS	PLASTIC
32	PLYE	POLYETHYLENE
33	PLYF	POLYFOAM
34	PLYP	POLYPROPYLENE
35	PLYU	POLYURETHANE
36	PM	POWDERED METAL
37	RUB	RUBBER
38	SMC	SHEET MOLDING COMPOUND
39	SLC	SILICONE
40	SLV	SILVER
41	SSTL	STAINLESS STEEL
42	STL	STEEL
43	STF	STEEL FORGING
44	TRPL	TERNE PLATE
45	TI	TITANIUM
46	URE	URETHANE
47	VAR	VARIOUS
48	VNL	VINYL
49	VN/W	VINYL & WIRE
50	WIRE	WIRE
51	ZN	ZINC
52	G/ST	GALVANIZED STEEL
53	F/BD	FIBER BOARD
54	ALST	ALUMINIZED STEEL
55	HE	HELIUM
56	FRON	FREON
57	OIL	OIL
58	CORK	CORK (GASKET MAT'L)
59	LEAD	LEAD
60	ASSY	ASSEMBLY
61	ZNST	ZINC COATED STEEL
62	STWR	STEEL WIRE
63	STTB	STEEL TUBING
64	SPST	SPRING STEEL
65	STRB	STEEL & RUBBER
66	STPL	STEEL & PLASTIC
67	STZN	STEEL & ZINC
68	STAL	STEEL & ALUMINUM
69	STCE	STEEL & CERAMIC
70	STAS	STEEL & ASBESTOS
71	STBA	STEEL & BABBIT
72	STBR	STEEL & BRONZE
73	SRF	STEEL, RUBBER & FABRIC
74	C/AL	CAST ALUMINUM
75	BABT	BABBIT
76	TIN	TIN
77	T/LD	TIN & LEAD
78	LPA	LEAD, PLASTIC & ACID
79	ZNPL	ZINC & PLASTIC
80	ABS	ABS PLASTIC
81	ACRY	ACRYLIC
82	BUTR	BUTYRATE
83	TEF	TEFLON
84	PVC	POLYVINYL CLORIDE
85	PLES	POLYESTER
86	MYLR	MYLAR
87	STRN	STYRENE
88	PLBR	PLASTIC & BRASS
89	PBCU	PLASTIC, BRASS & COPPER
90	V/F	VINYL & FABRIC
91	PLST	PLASTIC & STEEL
92	TPRB	THERMOPLASTIC RUBBER
93	FMRB	FOAM RUBBER
94	FLRB	FLOCKED RUBBER
95	RBFB	RUBBER & FABRIC
96	T/GL	TEMPERED GLASS
97	GLVN	GLASS & VINYL
98	GBT	GLASS, BRASS & TUNGSTEN
99	C/BD	CARDBOARD

ALPHABETICAL ORDER

MAT'L. NAME	CODE	ABBR.
ABS PLASTIC	80	ABS
ACETATE	01	ACE
ACRYLIC	81	ACRY
ADHESIVE	02	ADHE
ALUMINIZED STEEL	54	ALST
ALUMINUM	03	AL
ASBESTOS	04	ASB
ASSEMBLY	60	ASSY
BABBIT	75	BABT
BRASS	05	BRS
BRONZE	06	BRZ
BUTYRATE	82	BUTR
CADMIUM	07	CAD
CARDBOARD	99	C/BD
CAST ALUMINUM	74	C/AL
CAST IRON	08	CI
CAST STEEL	09	CS
CERAMIC	10	CER
CLOTH	11	CLO
CLOTH & COATED FABRIC	12	CCF
COLD ROLLED STEEL	13	CRS
COPPER	14	CU
CORK (GASKET MAT'L)	58	CORK
FABRIC	15	FAB
FABRIC & WIRE	16	F/W
FELT	17	FELT
FIBER BOARD	53	F/BD
FLOCKED RUBBER	94	FLRB
FOAM RUBBER	93	FMRB
FORGING	18	FRG
FREON	56	FRON
GALVANIZED STEEL	52	G/ST
GLASS	19	GLS
GLASS & VINYL	97	GLVN
GLASS, BRASS & TUNGSTEN	98	GBT
GOLD	20	GOLD
HELIUM	55	HE
HI STRENGTH LOW ALLOY STEEL	21	HSLA
HOT ROLLED STEEL	22	HRS
LEAD	59	LEAD
LEAD, PLASTIC & ACID	78	LPA
LEATHER	23	LEA
MAGNESIUM	24	MAG
MOLYBDENUM	25	MOLY
MYLAR	86	MYLR
NEOPRENE	26	NEO
NICKEL	27	NI
NYLON	28	NY
OIL	57	OIL
PAPER	29	PAP
PAPER & WIRE	30	PA/W
PLASTIC	31	PLAS
PLASTIC & BRASS	88	PLBR
PLASTIC & STEEL	91	PLST
PLASTIC, BRASS & COPPER	89	PBCU
POLYESTER	85	PLES
POLYETHYLENE	32	PLYE
POLYFOAM	33	PLYF
POLYPROPYLENE	34	PLYP
POLYURETHANE	35	PLYU
POLYVINYL CLORIDE	84	PVC
POWDERED METAL	36	PM
RUBBER	37	RUB
RUBBER & FABRIC	95	RBFB
SHEET MOLDING COMPOUND	38	SMC
SILICONE	39	SLC
SILVER	40	SLV
SPRING STEEL	64	SPST
STAINLESS STEEL	41	SSTL
STEEL	42	STL
STEEL & ALUMINUM	68	STAL
STEEL & ASBESTOS	70	STAS
STEEL & BABBIT	71	STBA
STEEL & BRONZE	72	STBR
STEEL & CERAMIC	69	STCE
STEEL & PLASTIC	66	STPL
STEEL & RUBBER	65	STRB
STEEL & ZINC	67	STZN
STEEL FORGING	43	STF
STEEL TUBING	63	STTB
STEEL WIRE	62	STWR
STEEL, RUBBER & FABRIC	73	SRF
STYRENE	87	STRN
TEFLON	83	TEF
TEMPERED GLASS	96	T/GL
TERNE PLATE	44	TRPL
THERMOPLASTIC RUBBER	92	TPRB
TIN	76	TIN
TIN & LEAD	77	T/LD
TITANIUM	45	TI
URETHANE	46	URE
VARIOUS	47	VAR
VINYL	48	VNL
VINYL & FABRIC	90	V/F
VINYL & WIRE	49	VN/W
WIRE	50	WIRE
ZINC	51	ZN
ZINC & PLASTIC	79	ZNPL
ZINC COATED STEEL	61	ZNST

PART NUMBERING SYSTEM

The part numbers are derived from a "Master Bill of Material" that contains all of the component parts and subassemblies for a given assembly or system. Thus a glove compartment release knob for a Chevrolet will appear on the same line of its Bill of Material, and have the same item number as any glove compartment release knob for any vehicle in the study. Following is a detailed breakdown and explanation of the numbering system.

Ford (Full Size)	1983	Board 4 (Seat Back Pad)	Border Wire
04	83	4	04A
Vehicle	Year	Photograph Number	Item Number
The first and second numbers indicate mfg. and model (car size) (01-22).	The third and fourth numbers indicate the year (1963-1983).	The fifth number is the photograph board number (1-7).	The sixth, seventh and eighth (when necessary) numbers indicate the part as it appears on the Master Part List, Detail Process Sheet, Computer Cost Sheet and Photograph.

VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
CHEVROLET CAPRICE		1		17.3369	29.0404	.6866	.7238	30.4508	43.7583	49.7103	1664.0
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2589	.3213	.5948	.6570	1.5731	2.2607	2.5682	372.5
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.4748	2.9490			2.9490	4.2374	4.8138	362.0
ASM - DOOR HANDLE	83151	2	ASSY	1.5118	4.2546			4.2546	6.1140	6.9456	276.0
ASM - ARM REST	83201	2	ASSY	3.0550	3.5500			3.5500	5.1014	5.7952	241.0
ASM - SUNVISOR	83220	2	ASSY	2.1976	5.3284			5.3284	7.6572	8.6990	241.5
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	8.2720	11.2903			11.2903	16.2244	18.4311	171.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.5668	1.3468	.0918	.0668	1.5054	2.1632	2.4574	
ASSEMBLY COST											

* *

VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2589	.3213	.5948	.6570	1.5731	2.2607	2.5682	372.5
HOUSING - GLOVE BOX LOCK	83102	1	ZN	.0900	.0518	.0254	.0550	.1322	.1900	.2158	70.0
RELEASE KNOB	83103	1	ZN	.0435	.0300	.1261	.1672	.3233	.4646	.5278	67.0
SPRING - RELEASE BUTTON	83104	1	WIRE	.0028	.0170			.0170	.0244	.0277	
SPRING - RELEASE TRIGGER	83106	1	WIRE	.0006	.0170			.0170	.0244	.0277	
RETAINER - LOCK HOUSING	83107	1	ZN	.0178	.0103	.0116	.0265	.0484	.0696	.0791	50.0
KNOB - LOCK HOUSING	83109	1	ZN	.0510	.0288	.0116	.0265	.0669	.0961	.1092	60.0
LATCH - GLOVE BOX	83112	1	HRS	.0085	.0055	.0047	.0166	.0268	.0385	.0437	25.0
TUMBLER - GLOVE BOX LOCK	83113	5	BRS	.0040	.0230	.0085	.0290	.0605	.0870	.0990	50.0
TUMBLER SPRING	83114	5	WIRE	.0005	.0100			.0100	.0145	.0165	
STRIKER - GLOVE BOX LOCK	83115	1	STWR	.0191	.0099	.0088	.0320	.0507	.0729	.0828	40.0
ROLL PIN	83119A	1	AL	.0007	.0010			.0010	.0014	.0016	
MOUNTING SCREW	83119B	2	STL	.0204	.1100			.1100	.1580	.1794	
ASSEMBLY COST					.0070	.3981	.3042	.7093	1.0193	1.1579	10.5

VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.2374	1.4745			1.4745	2.1187	2.4069	362.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.1865	.8749			.8749	1.2572	1.4282	117.0
ASM - WINDOW REGULATOR HANDLE KNOB	83122	1	ASSY	.0494	.3825			.3825	.5495	.6242	225.0
WASHER - SPRING	83127	1	SSTL	.0002	.0100			.0100	.0144	.0164	
WASHER - SPACER	83128	1	CRS	.0013	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.1871			.1871	.2689	.3055	20.0

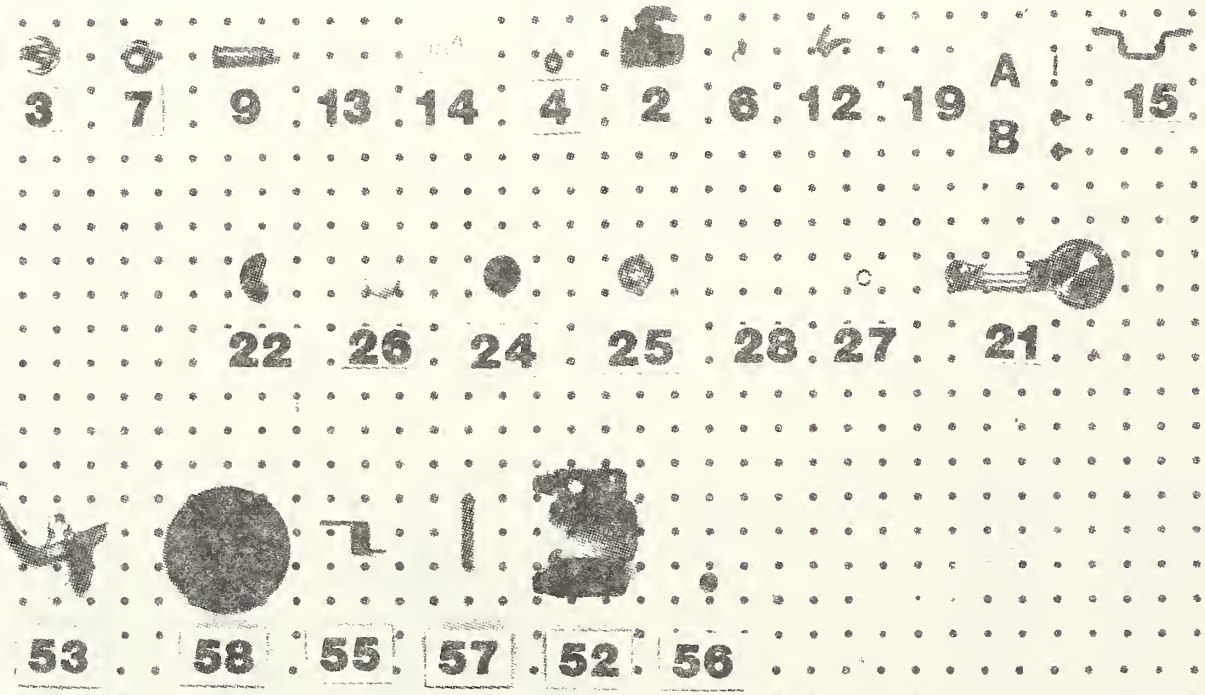
VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE KNOB	83122	2	ASSY	.0494	.3825			.3825	.5495	.6242	225.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0203	.0190			.0190	.0273	.0310	
GROMMET - WINDOW REG. HANDLE KNOB	83124	1	RUB	.0105	.0994			.0994	.1428	.1622	25.0
SHAFT - WINDOW REG. HANDLE KNOB	83125	1	ZN	.0158	.0429			.0429	.0616	.0700	60.0
CAP - WINDOW REG. HANDLE KNOB	83126	1	AL	.0028	.0374			.0374	.0537	.0610	25.0
ASSEMBLY COST					.1838			.1838	.2641	.3000	115.0

VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.7559	2.1273			2.1273	3.0570	3.4728	276.0
HOUSING - DOOR HANDLE	83152	1	HRS	.3007	.3130			.3130	.4498	.5110	50.0
HANDLE - DOOR	83153	1	ZN	.3551	1.0720			1.0720	1.5405	1.7500	82.0
RETURN SPRING - DOOR HANDLE	83155	1	STWR	.0218	.1727			.1727	.2482	.2820	25.0
RUBBER BUMPER	83156	1	RUB	.0027	.0580			.0580	.0833	.0946	35.0
ROLL PIN - DOOR HANDLE	83157	1	CRS	.0332	.0965			.0965	.1387	.1576	35.0
DUST SHIELD	83158	1	FMRB	.0424	.0865			.0865	.1243	.1412	29.0
ASSEMBLY COST					.3286			.3286	.4722	.5364	20.0

1983 CHEVROLET CAPRICE BOARD 1



VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	1.5275	1.7750			1.7750	2.5507	2.8976	241.0
FOAM PAD	83202	1	URE	.0012	.0010			.0010	.0014	.0016	
SUPPORT - ARM REST	83203	1	PVC	.8421	.8642			.8642	1.2419	1.4108	100.0
REINFORCEMENT - ARM REST	83204	1	CRS	.4529	.3367			.3367	.4838	.5496	75.0
COVER - ARM REST	83205	1	PVC	.2313	.3812			.3812	.5478	.6223	40.0
ASSEMBLY COST					.1919			.1919	.2758	.3133	26.0

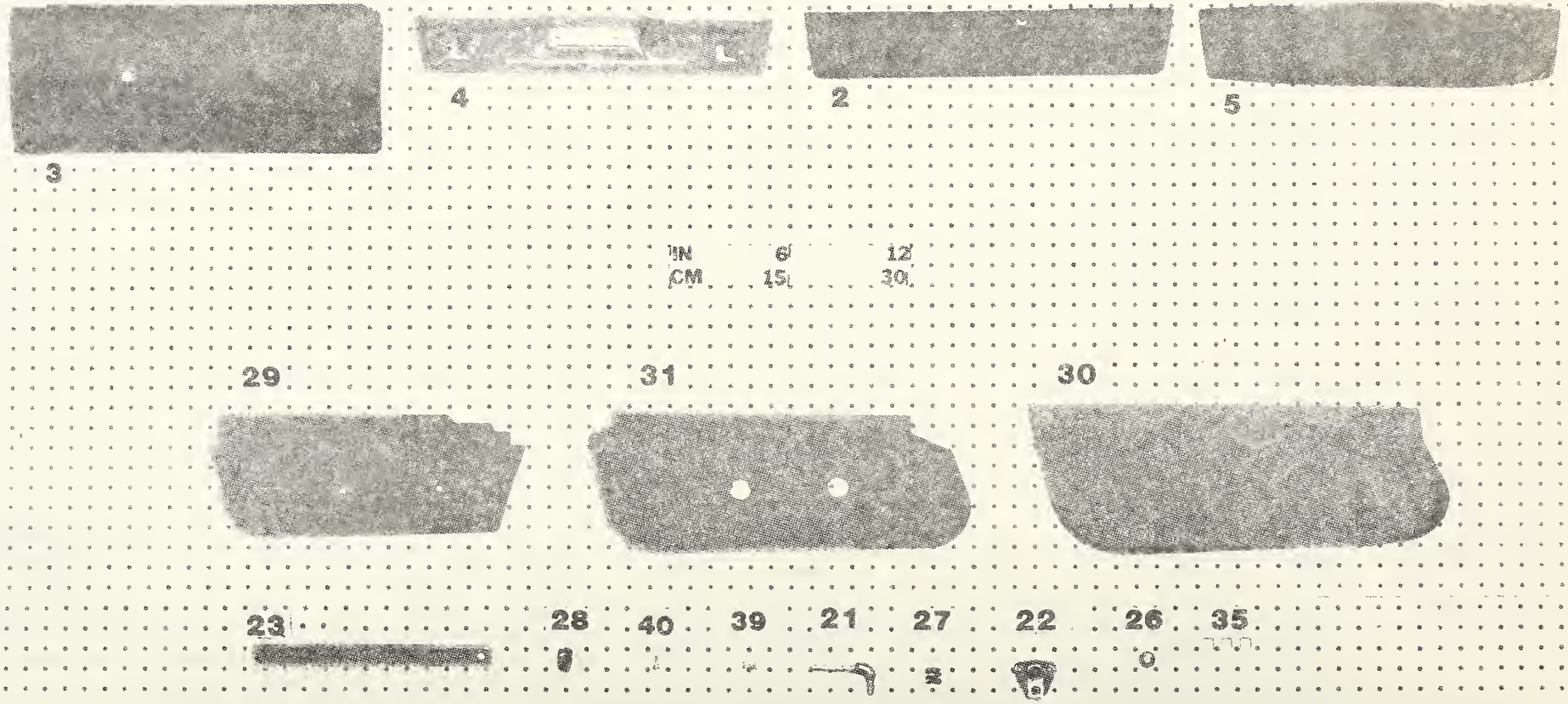
VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	1.0988	2.6642			2.6642	3.8286	4.3495	241.5
ASM - HINGE ROD - SUNVISOR	83221	1	ASSY	.1236	.7805			.7805	1.1216	1.2742	82.0
HINGE BRACKET	83222	1	ZN	.1266	.4635			.4635	.6660	.7566	69.0
HINGE REINFORCEMENT - SUNVISOR	83223	1	CRS	.1881	.1794			.1794	.2578	.2929	30.0
WASHER	83226	1	STL	.0048	.0200			.0200	.0287	.0326	
SPRING - SUNVISOR	83227	1	STWR	.0150	.0500			.0500	.0719	.0817	
CLIP	83228	1	SPST	.0167	.0370			.0370	.0532	.0604	15.0
STIFFENER - SUNVISOR	83229	1	F/BD	.3691	.2688			.2688	.3863	.4388	10.0
COVER - SUNVISOR	83230	1	RBFB	.0672	.1243			.1243	.1786	.2029	.5
PAD - SUNVISOR	83231	1	PAP	.1787	.0551			.0551	.0792	.0900	10.0
STAPLE	83235	3	STL	.0021	.0060			.0060	.0087	.0099	
BUSHING	83239	1	PLAS	.0008	.0050			.0050	.0072	.0082	
FASTENER	83240	1	STL	.0061	.0750			.0750	.1078	.1225	
ASSEMBLY COST					.5996			.5996	.8616	.9788	25.0

VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - HINGE ROD - SUNVISOR	83221	2	ASSY	.1236	.7805			.7805	1.1216	1.2742	82.0
INSERT - HINGE ROD	83221A	1	CRS	.0484	.2114			.2114	.3038	.3451	13.0
ROD - HINGE	83221B	1	ZN	.0752	.0468			.0468	.0673	.0765	
ASSEMBLY COST					.5223			.5223	.7505	.8526	69.0

1983
CHEVROLET CAPRICE BOARD 2

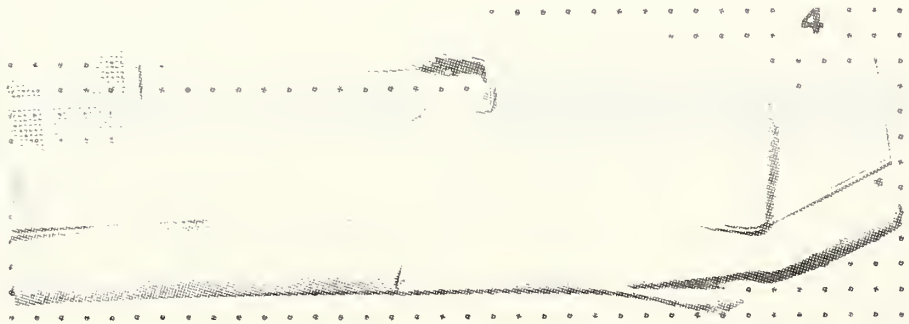


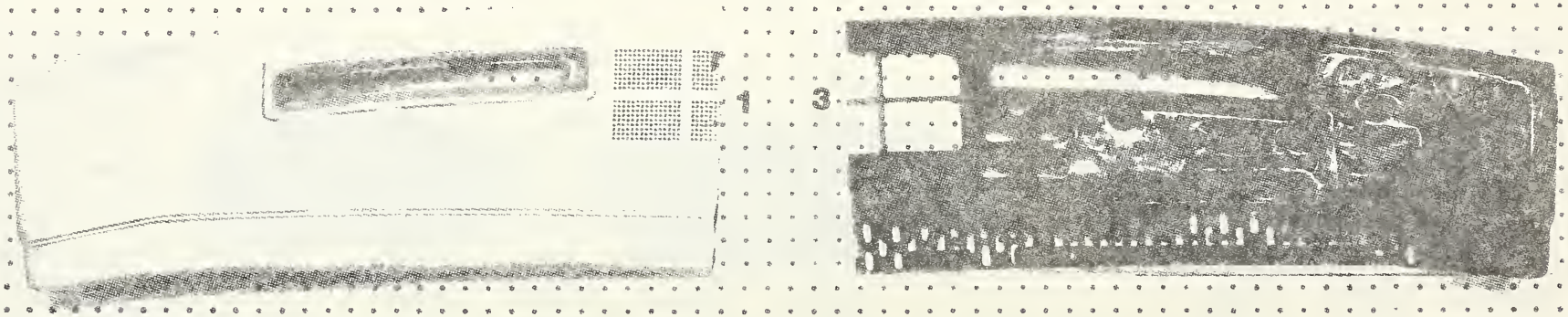
A-12

VEHICLE-- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	8.2720	11.2903			11.2903	16.2244	18.4311	171.0
FOAM - INST. PNL. PAD	83302	1	PLYF	2.3800	3.1237			3.1237	4.4888	5.0993	
BASE SUPPORT - INST. PNL. PAD	83303	1	CRS	4.6279	5.1986			5.1986	7.4704	8.4864	80.0
COVER - INST. PNL. PAD	83304	1	PLAS	1.2289	1.9233			1.9233	2.7638	3.1397	27.0
RETAINER - SCREW	83305	8	PLAS	.0176	.0640			.0640	.0920	.1048	
RETAINER - SCREW	83306	4	PLAS	.0176	.0600			.0600	.0864	.0980	
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

1983
CHEVROLET CAPRICE BOARD 3

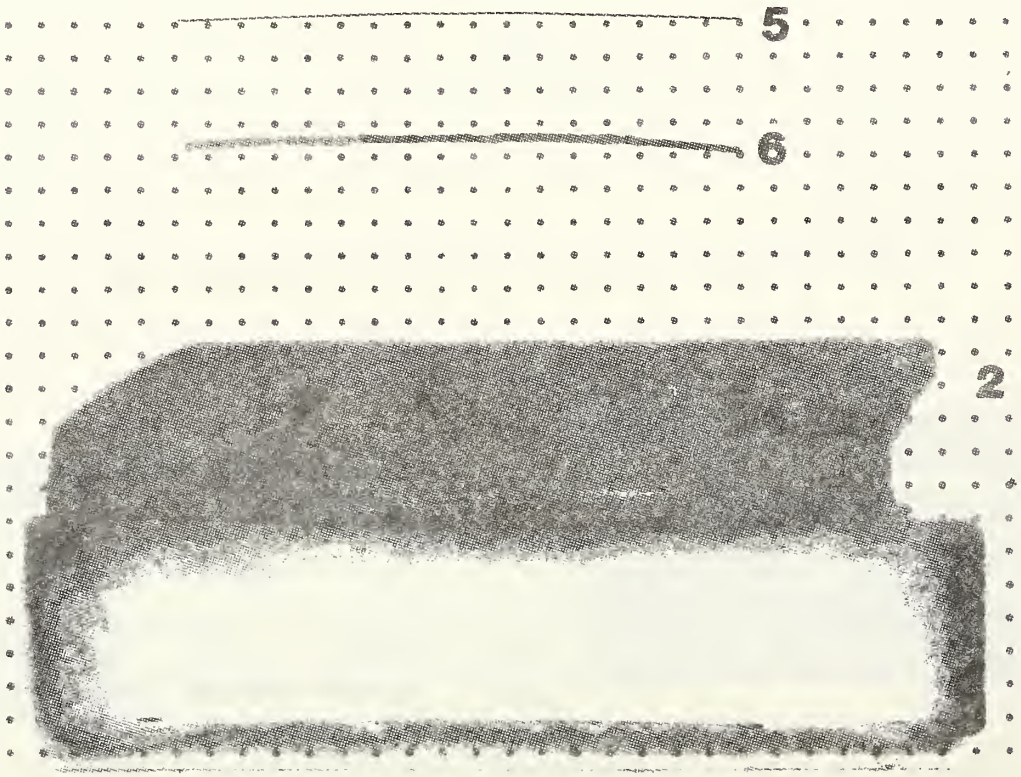




VEHICLE- 01- CHEVROLET CAPRICE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.7834	.6734	.0459	.0334	.7527	1.0816	1.2287	
MAIN PAD	83402	1	FMRB	.7609	.6456			.6456	.9277	1.0539	
BORDER WIRE	83405	1	STWR	.0135	.0038			.0038	.0055	.0062	
BORDER WIRE COVER	83406	1	PAP	.0090	.0240	.0459	.0334	.1033	.1484	.1686	
ASSEMBLY COST											

1983
CHEVROLET CAPRICE BOARD 4



VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
CHEVROLET MALIBU		1		16.0167	29.6408	.5628	.6164	30.8200	44.2877	50.3119	1487.5
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2787	.2571	.4710	.5496	1.2777	1.8360	2.0860	343.0
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.4748	2.9442			2.9442	4.2308	4.8064	362.0
ASM - DOOR HANDLE	83151	2	ASSY	.8384	2.6694			2.6694	3.8356	4.3574	201.0
ASM - ARM REST	83201	2	ASSY	1.6582	2.5024			2.5024	3.5960	4.0850	70.0
ASM - SUNVISOR	83220	2	ASSY	1.9448	5.6006			5.6006	8.0480	9.1430	274.5
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	9.2498	14.0181			14.0181	20.1439	22.8835	237.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.5720	1.6490	.0918	.0668	1.8076	2.5974	2.9506	
ASSEMBLY COST											

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VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2787	.2571	.4710	.5496	1.2777	1.8360	2.0860	343.0
HOUSING - GLOVE COMPARTMENT LOCK	83102	1	ZN	.1211	.0691	.0254	.0550	.1495	.2148	.2440	70.0
RELEASE KNOB	83103	1	ZN	.0451	.0159	.1261	.1672	.3092	.4443	.5047	67.0
SPRING - RELEASE BUTTON	83104	1	WIRE	.0006	.0100			.0100	.0144	.0164	
LOCK HOUSING	83109	1	ZN	.0319	.0176	.0116	.0265	.0557	.0800	.0909	60.0
LATCH - GLOVE COMPARTMENT DOOR	83112	1	ZN	.0165	.0097	.0150	.0310	.0557	.0800	.0909	45.0
TUMBLER - GLOVE BOX LOCK	83113	5	BRS	.0040	.0280	.0085	.0290	.0655	.0940	.1070	50.0
TUMBLER SPRING	83114	5	WIRE	.0005	.0100			.0100	.0145	.0165	
STRIKER - GLOVE BOX LOCK	83115	1	HRS	.0510	.0290	.0088	.0320	.0698	.1003	.1139	40.0
WASHER	83119	1	STL	.0022	.0050			.0050	.0072	.0082	
MOUNTING SCREW	83119B	2	STL	.0058	.0580			.0580	.0834	.0948	
ASSEMBLY COST				.0048	.2756	.2089		.4893	.7031	.7987	11.0

VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.2374	1.4721			1.4721	2.1154	2.4032	362.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.1865	.8727			.8727	1.2541	1.4247	117.0
ASM - WINDOW REGULATOR HANDLE KNOB	83122	1	ASSY	.0494	.3823			.3823	.5493	.6240	225.0
WASHER - SPRING	83127	1	SSTL	.0002	.0100			.0100	.0144	.0164	
WASHER - SPACER	83128	1	CRS	.0013	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.1871			.1871	.2689	.3055	20.0

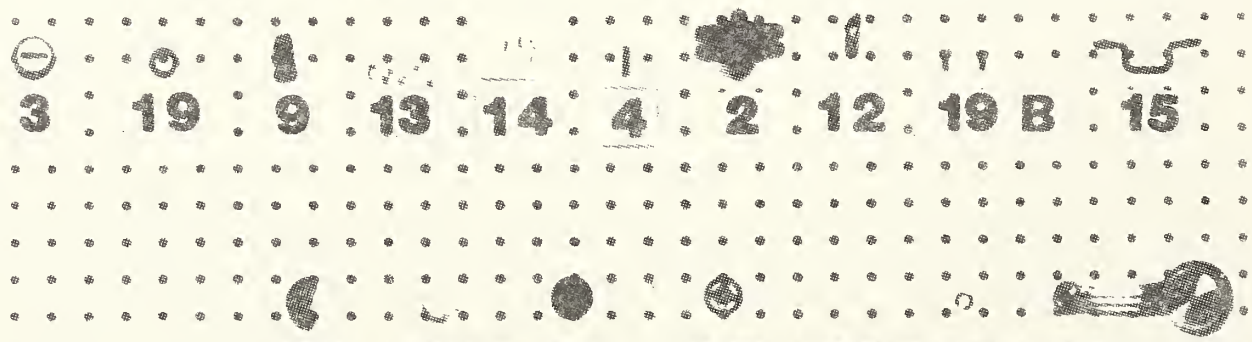
VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE KNOB	83122	2	ASSY	.0494	.3823			.3823	.5493	.6240	225.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0203	.0190			.0190	.0273	.0310	
GROMMET - WINDOW REG. HANDLE	83124	1	RUB	.0105	.0994			.0994	.1428	.1622	25.0
SHAFT - WINDOW REG. HANDLE	83125	1	ZN	.0158	.0427			.0427	.0614	.0698	60.0
CAP - WINDOW REG. HANDLE	83126	1	AL	.0028	.0374			.0374	.0537	.0610	25.0
ASSEMBLY COST					.1838			.1838	.2641	.3000	115.0

VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.4192	1.3347			1.3347	1.9178	2.1787	201.0
HANDLE - DOOR	83153	1	ZN	.2603	.9208			.9208	1.3232	1.5032	117.0
RETURN SPRING - DOOR HANDLE	83155	1	WIRE	.0112	.0772			.0772	.1109	.1260	2.0
RETAINING PIN	83157	1	CRS	.0217	.0413			.0413	.0593	.0674	2.0
BRACKET - DOOR HANDLE	83160	1	CRS	.1260	.1319			.1319	.1895	.2153	75.0
ASSEMBLY COST					.1635			.1635	.2349	.2668	5.0

1983 CHEVROLET MALIBU BOARD



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VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	.8291	1.2512			1.2512	1.7980	2.0425	70.0
PAD - FOAM	83202	1	PLYF	.1513	.1489			.1489	.2140	.2431	
REINFORCEMENT - ARM REST	83204	1	HRS	.4536	.4303			.4303	.6183	.7024	40.0
COVER - ARM REST	83205	1	PVC	.2242	.5380			.5380	.7731	.8782	17.0
ASSEMBLY COST					.1340			.1340	.1926	.2188	13.0

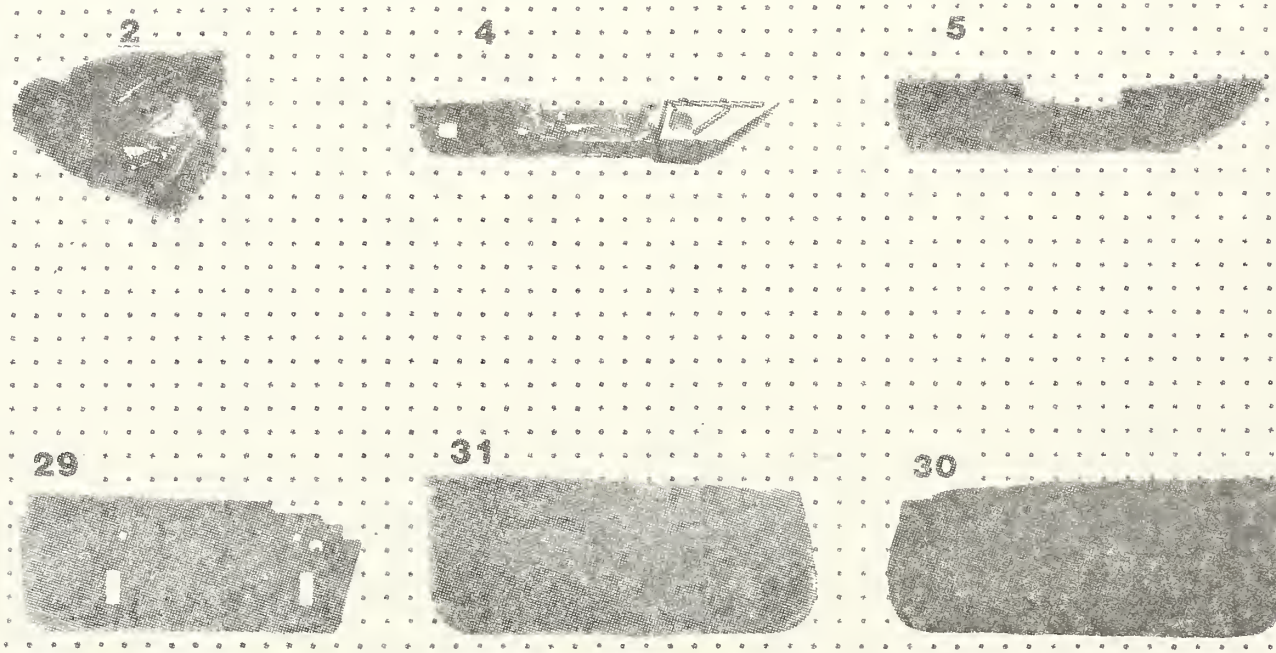
VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	.9724	2.8003			2.8003	4.0240	4.5715	274.5
ASM - SUNVISOR HINGE ROD	83221	1	ASSY	.1236	.7805			.7805	1.1216	1.2742	82.0
HINGE BRACKET	83222	1	ZN	.1333	.4737			.4737	.6807	.7733	69.0
HINGE REINFORCEMENT - VISOR	83223	1	CRS	.1833	.1186			.1186	.1704	.1936	20.0
WASHER	83226	1	CRS	.0048	.0200			.0200	.0287	.0326	
SPRING - SUNVISOR	83227	1	STWR	.0150	.0500			.0500	.0719	.0817	
CLIP	83228	1	SPST	.0167	.0449			.0449	.0645	.0733	15.0
STIFFENER - SUNVISOR	83229	1	F/BD	.3137	.1012			.1012	.1454	.1652	15.0
COVER - SUNVISOR	83230	1	RBFB	.0431	.0830			.0830	.1193	.1355	.5
PAD - SUNVISOR	83231	1	VAR	.0756	.2653			.2653	.3812	.4330	20.0
OUTER BEAD COVER	83232	1	PLAS	.0184	.0343			.0343	.0493	.0560	20.0
STAPLE	83235	4	STL	.0032	.0080			.0080	.0116	.0132	
CLIP END	83236	2	SSTL	.0330	.0400			.0400	.0574	.0652	
BUSHING	83239	1	PLAS	.0008	.0050			.0050	.0072	.0082	
FASTENER - SCREW	83240	1	STL	.0079	.0750			.0750	.1078	.1225	
ASSEMBLY COST					.7008			.7008	1.0070	1.1440	33.0

VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR HINGE ROD	83221	2	ASSY	.1236	.7805			.7805	1.1216	1.2742	82.0
INSERT - HINGE ROD	83221A	1	CRS	.0484	.2114			.2114	.3038	.3451	13.0
ZINC (MAT'L. ONLY)	83221B	1	ZN	.0752	.0468			.0468	.0673	.0765	
ASSEMBLY COST					.5223			.5223	.7505	.8526	69.0

1983 CHEVROLET MALIBU BOARD 2



A-26

VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	9.2498	14.0181			14.0181	20.1439	22.8835	237.0
FOAM - INSTRUMENT PANEL PAD	83302	1	PLYF	.8325	1.1472			1.1472	1.6485	1.8727	
BASE SUPPORT - INSTRUMENT PANEL	83303	1	PLAS	6.5673	8.6028			8.6028	12.3622	14.0435	125.0
COVER - INSTRUMENT PANEL PAD	83304	1	PLAS	1.8500	2.9188			2.9188	4.1943	4.7647	27.0
ASSEMBLY COST					1.3493			1.3493	1.9389	2.2026	85.0

1983
CHEVROLET MALIBU BOARD 3

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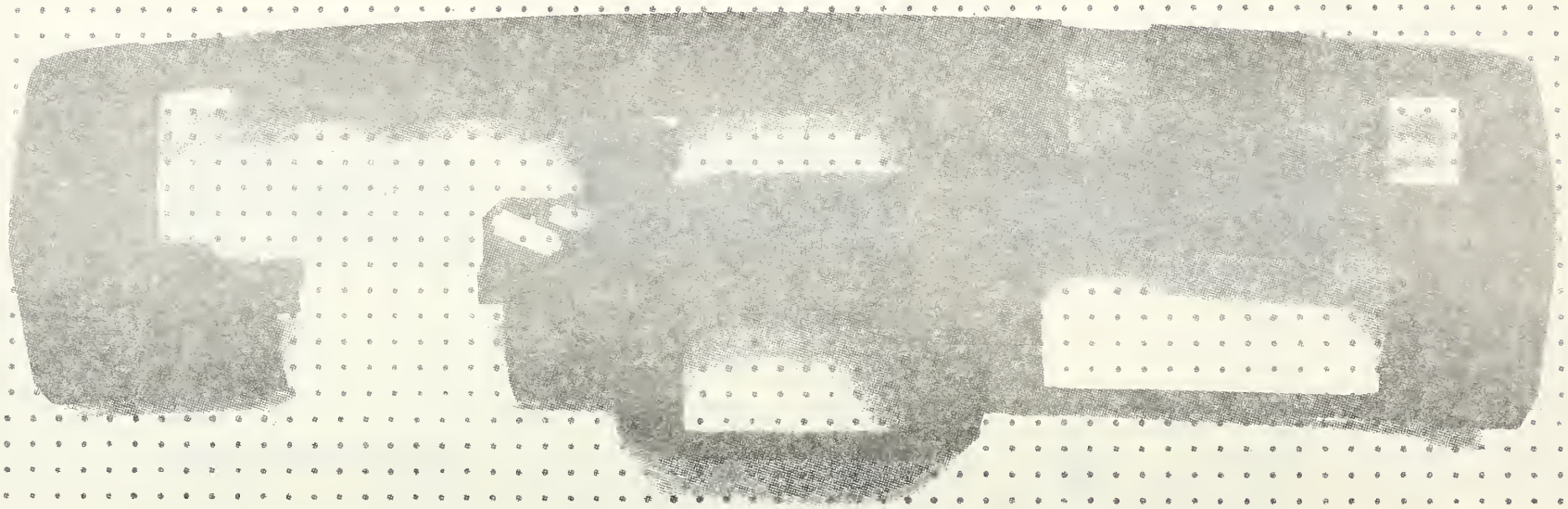

A-28

VEHICLE- 02- CHEVROLET MALIBU

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.7860	.8245	.0459	.0334	.9038	1.2987	1.4753	
MAIN PAD	83402	1	FMRB	.6410	.5438			.5438	.7814	.8877	
PAD CROWN SUPPORT	83404	1	FMRB	.1036	.2545			.2545	.3657	.4154	
BORDER WIRE	83405	1	STWR	.0147	.0042			.0042	.0060	.0068	
BORDER WIRE COVER	83406	1	PAP	.0267	.0220	.0459	.0334	.1013	.1456	.1654	
ASSEMBLY COST											

VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
					VARIABLE MANUFACTURING COST						
CHEVROLET CAVALIER		1		18.3248	34.7987	.5948	.6570	36.0505	51.8037	58.8495	1730.0
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2589	.3213	.5948	.6570	1.5731	2.2607	2.5682	372.5
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.4748	2.9490			2.9490	4.2374	4.8138	362.0
ASM - DOOR HANDLE	83151	2	ASSY	.5866	2.4956			2.4956	3.5860	4.0738	201.0
ASM - ARM REST	83201	2	ASSY	2.6822	4.2580			4.2580	6.1188	6.9508	110.0
ASM - SUNVISOR	83220	2	ASSY	2.4816	5.4004			5.4004	7.7602	8.8160	264.5
ASM - PASSENGER ASSIST HANDLE	83260	1	ASSY	.1237	2.7939			2.7939	4.0147	4.5607	183.0
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	10.2500	15.0035			15.0035	21.5599	24.4920	237.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.4670	1.5770			1.5770	2.2660	2.5742	
ASSEMBLY COST											

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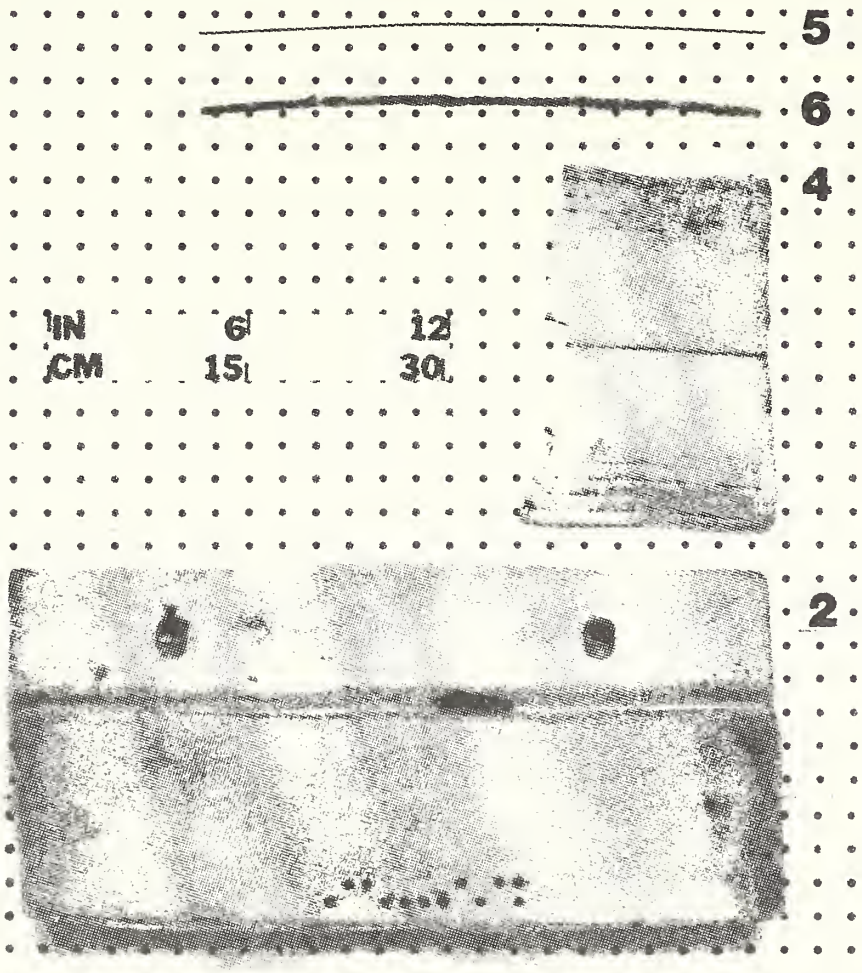
1983
CHEVROLET MALIBU BOARD 4



VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2589	.3213	.5948	.6570	1.5731	2.2607	2.5682	372.5
HOUSING - GLOVE BOX LOCK	83102	1	ZN	.0900	.0518	.0254	.0550	.1322	.1900	.2158	70.0
RELEASE KNOB	83103	1	ZN	.0435	.0300	.1261	.1672	.3233	.4646	.5278	67.0
SPRING - RELEASE BUTTON	83104	1	WIRE	.0028	.0170			.0170	.0244	.0277	
SPRING - RELEASE TRIGGER	83106	1	WIRE	.0006	.0170			.0170	.0244	.0277	
RETAINER - LOCK HOUSING	83107	1	ZN	.0178	.0103	.0116	.0265	.0484	.0696	.0791	50.0
KNOB - LOCK HOUSING	83109	1	ZN	.0510	.0288	.0116	.0265	.0669	.0961	.1092	60.0
LATCH - GLOVE BOX	83112	1	HRS	.0085	.0055	.0047	.0166	.0268	.0385	.0437	25.0
TUMBLER - GLOVE BOX LOCK	83113	5	BRS	.0040	.0230	.0085	.0290	.0605	.0870	.0990	50.0
TUMBLER SPRING	83114	5	WIRE	.0005	.0100			.0100	.0145	.0165	
STRIKER - GLOVE BOX LOCK	83115	1	STWR	.0191	.0099	.0088	.0320	.0507	.0729	.0828	40.0
ROLL PIN	83119A	1	AL	.0007	.0010			.0010	.0014	.0016	
MOUNTING SCREW	83119B	2	STL	.0204	.1100			.1100	.1580	.1794	
ASSEMBLY COST					.0070	.3981	.3042	.7093	1.0193	1.1579	10.5

VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.2374	1.4745			1.4745	2.1187	2.4069	362.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.1865	.8749			.8749	1.2572	1.4282	117.0
ASM - WINDOW REGULATOR HANDLE KNOB	83122	1	ASSY	.0494	.3825			.3825	.5495	.6242	225.0
WASHER - SPRING	83127	1	SSTL	.0002	.0100			.0100	.0144	.0164	
WASHER - SPACER	83128	1	CRS	.0013	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.1871			.1871	.2689	.3055	20.0

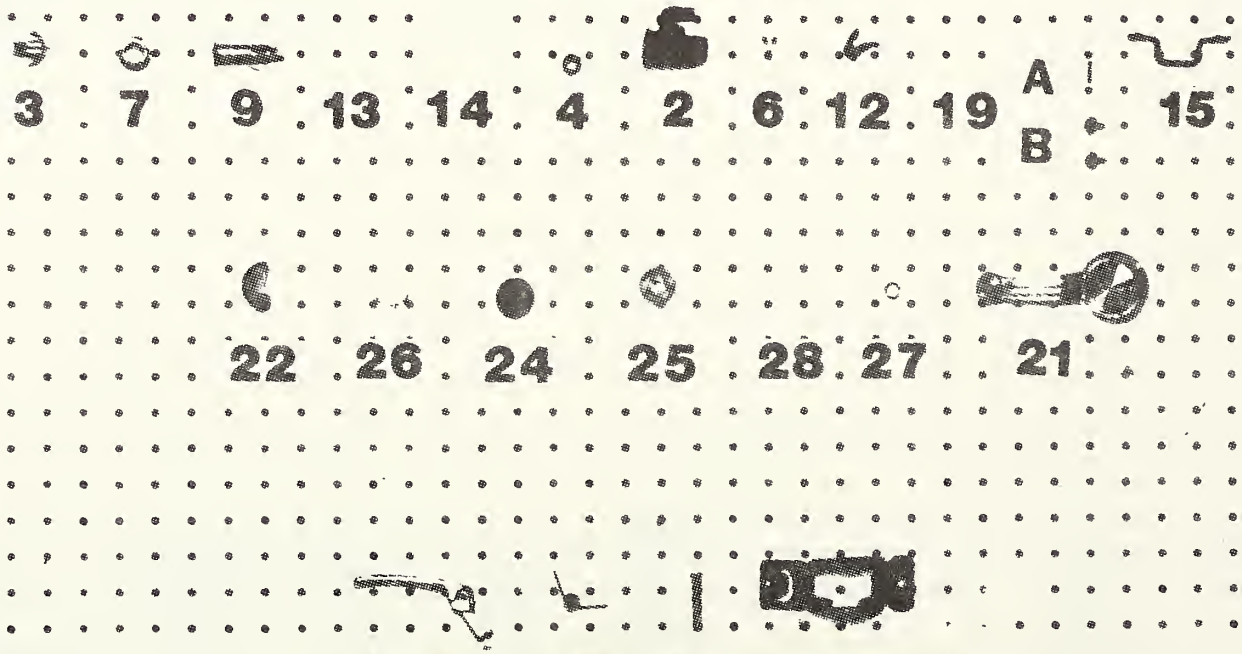
VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE KNOB	83122	2	ASSY	.0494	.3825			.3825	.5495	.6242	225.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0203	.0190			.0190	.0273	.0310	
GROMMET - WINDOW REG. HANDLE KNOB	83124	1	RUB	.0105	.0994			.0994	.1428	.1622	25.0
SHAFT - WINDOW REG. HANDLE KNOB	83125	1	ZN	.0158	.0429			.0429	.0616	.0700	60.0
CAP - WINDOW REG. HANDLE KNOB	83126	1	AL	.0028	.0374			.0374	.0537	.0610	25.0
ASSEMBLY COST					.1838			.1838	.2641	.3000	115.0

VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.2933	1.2478			1.2478	1.7930	2.0369	201.0
HANDLE - DOOR	83153	1	ZN	.1351	.8431			.8431	1.2115	1.3763	117.0
RETURN SPRING - DOOR HANDLE	83155	1	WIRE	.0105	.0762			.0762	.1095	.1244	2.0
RETAINING PIN	83157	1	CRS	.0217	.0331			.0331	.0476	.0541	2.0
BRACKET - DOOR HANDLE	83160	1	CRS	.1260	.1319			.1319	.1895	.2153	75.0
ASSEMBLY COST					.1635			.1635	.2349	.2668	5.0

1983 CHEVROLET CAVALIER BOARD 1



VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	1.3411	2.1290			2.1290	3.0594	3.4754	110.0
PAD - FOAM	83202	1	PLYF	.0594	.0591			.0591	.0849	.0964	
SUPPORT - ARM REST	83203	1	ABS	.5122	.7121			.7121	1.0233	1.1625	35.0
REINFORCEMENT - ARM REST	83204	1	AL	.0694	.1769			.1769	.2542	.2888	25.0
COVER - ARM REST	83205	1	PVC	.6875	.8884			.8884	1.2766	1.4502	17.0
CLIP	83206	2	STL	.0102	.0300			.0300	.0432	.0490	
PLUG - ARM REST	83213	1	ABS	.0024	.0147			.0147	.0211	.0240	20.0
ASSEMBLY COST					.2478			.2478	.3561	.4045	13.0

VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	1.2408	2.7002			2.7002	3.8801	4.4080	264.5
ASM - SUNVISOR HINGE ROD	83221	1	ASSY	.1236	.7805			.7805	1.1216	1.2742	82.0
HINGE BRACKET	83222	1	ZN	.1266	.4635			.4635	.6660	.7566	69.0
HINGE REINFORCEMENT - VISOR	83223	1	CRS	.2033	.1304			.1304	.1874	.2129	20.0
WASHER	83226	1	CRS	.0048	.0200			.0200	.0287	.0326	
SPRING - SUNVISOR	83227	1	STWR	.0150	.0500			.0500	.0719	.0817	
CLIP	83228	1	SPST	.0167	.0449			.0449	.0645	.0733	15.0
STIFFENER - SUNVISOR	83229	1	F/BD	.4803	.1302			.1302	.1871	.2125	15.0
COVER - SUNVISOR	83230	1	RBFB	.0926	.1678			.1678	.2411	.2739	.5
PAD - SUNVISOR	83231	1	PAP	.1410	.0463			.0463	.0665	.0755	10.0
OUTER BEAD COVER	83232	1	PLAS	.0216	.0378			.0378	.0543	.0617	20.0
STAPLE	83235	4	STL	.0032	.0080			.0080	.0116	.0132	
CLIP END	83236	2	SSTL	.0034	.0400			.0400	.0574	.0652	
BUSHING	83239	1	PLAS	.0008	.0050			.0050	.0072	.0082	
FASTENER - SCREW	83240	1	STL	.0079	.0750			.0750	.1078	.1225	
ASSEMBLY COST					.7008			.7008	1.0070	1.1440	33.0

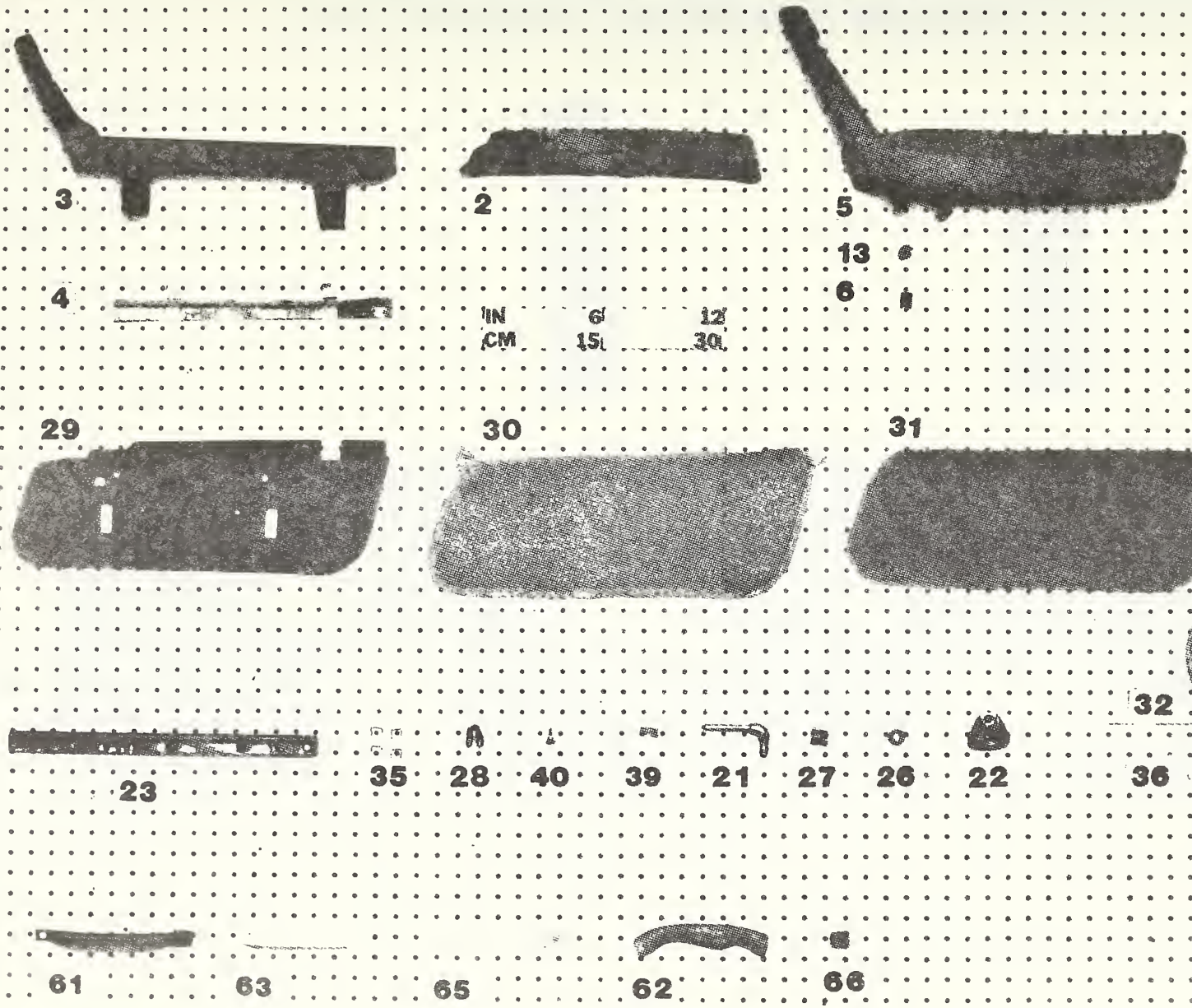
VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR HINGE ROD	83221	2	ASSY	.1236	.7805			.7805	1.1216	1.2742	82.0
INSERT - HINGE ROD	83221A	1	CRS	.0484	.2114			.2114	.3038	.3451	13.0
ZINC (MAT'L. ONLY)	83221B	1	ZN	.0752	.0468			.0468	.0673	.0765	
ASSEMBLY COST					.5223			.5223	.7505	.8526	69.0

VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - PASSENGER ASSIST HANDLE	83260	1	ASSY	.1237	2.7939			2.7939	4.0147	4.5607	183.0
HANDLE	83261	1	SPST	.0437	.0646			.0646	.0928	.1054	25.0
COVER	83262	1	VNL	.0126	.0438			.0438	.0629	.0715	10.0
REINFORCEMENT	83263	1	PLYE	.0168	.0183			.0183	.0263	.0299	10.0
PADDING	83265	1	URE	.0044	.0292			.0292	.0420	.0477	10.0
RETAINER - HANDLE	83266	2	ZN	.0462	.1146			.1146	.1646	.1870	105.0
ASSEMBLY COST					2.5234			2.5234	3.6261	4.1192	23.0

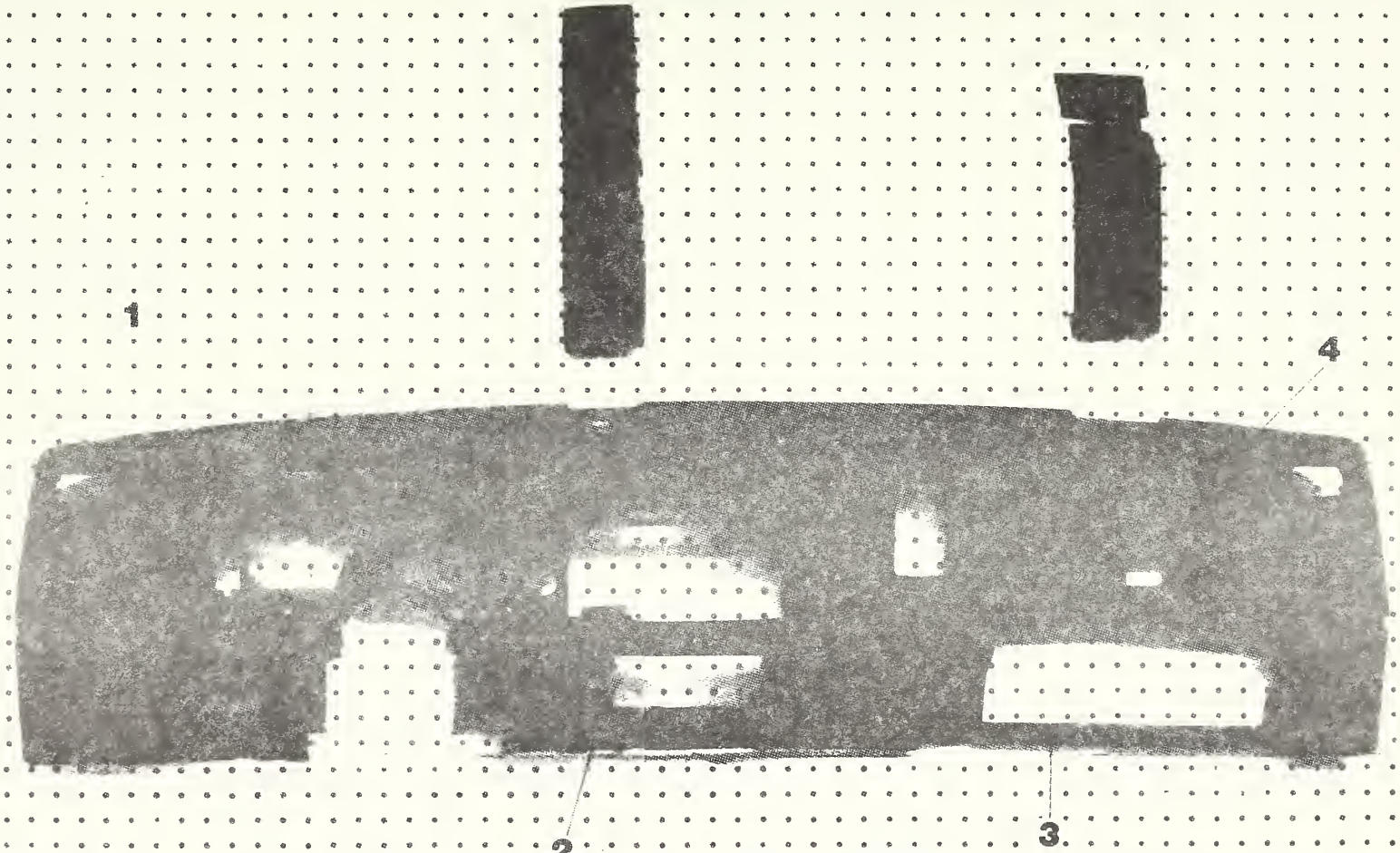
1983
CHEVROLET CAVALIER BOARD 2



VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	10.2500	15.0035			15.0035	21.5599	24.4920	237.0
FOAM PAD - INSTRUMENT PANEL	83302	1	PLYF	.9225	1.2712			1.2712	1.8267	2.0751	
BASE SUPPORT - INSTRUMENT PANEL	83303	1	PLAS	7.2775	9.4431			9.4431	13.5697	15.4152	125.0
COVER - INSTRUMENT PANEL PAD	83304	1	PLAS	2.0500	2.9399			2.9399	4.2246	4.7991	27.0
ASSEMBLY COST					1.3493			1.3493	1.9389	2.2026	85.0

1983
CHEVROLET CAVALIER BOARD 3



VEHICLE- 03- CHEVROLET CAVALIER

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.7335	.7885			.7885	1.1330	1.2871	
MAIN PAD	83402	1	FMRB	.6580	.5582			.5582	.8021	.9112	
PAD CROWN SUPPORT	83404	1	FMRB	.0755	.2303			.2303	.3309	.3759	
ASSEMBLY COST											

VEHICLE- 04- FORD CROWN VICTORIA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
FORD CROWN VICTORIA		1		16.7552	31.3774	.4983	.4816	32.3573	46.4976	52.8215	1537.5
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.1234	.1564	.4983	.4816	1.1363	1.6330	1.8554	340.5
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.5644	2.6596			2.6596	3.8218	4.3416	232.0
ASM - DOOR HANDLE	83151	2	ASSY	1.7008	4.2416			4.2416	6.0956	6.9242	368.0
ASM - ARM REST	83201	2	ASSY	4.0814	4.3324			4.3324	6.2258	7.0726	100.0
ASM - SUNVISOR	83220	2	ASSY	1.9408	5.2462			5.2462	7.5384	8.5638	201.0
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	6.5349	13.3803			13.3803	19.2274	21.8424	296.0
ASM - SEAT BACK PAD (UPPER 6")	83401	1	ASSY	1.8095	1.3609			1.3609	1.9556	2.2215	
ASSEMBLY COST											

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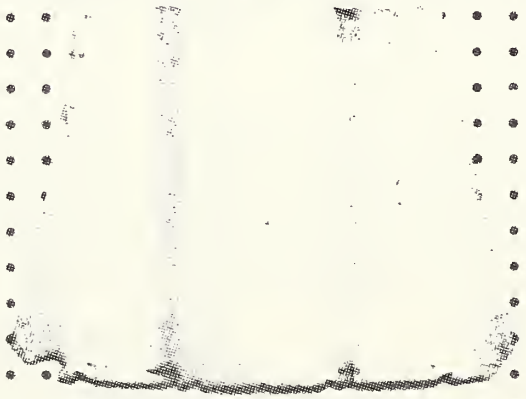
1983
CHEVROLET CAVALIER BOARD 4

IN 6 12
CM 15 30



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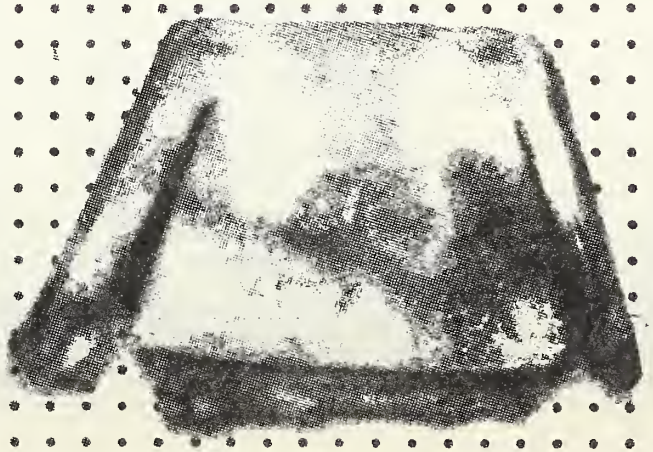

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VEHICLE- 04- FORD CROWN VICTORIA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.1234	.1564	.4983	.4816	1.1363	1.6330	1.8554	340.5
HOUSING - GLOVE BOX LOCK	83102	1	PLAS	.0242	.0235	.0013	.0026	.0274	.0394	.0448	20.0
RELEASE BUTTON	83103	2	ABS	.0112	.0144	.0126	.0320	.0590	.0848	.0964	30.0
TRIGGER - RELEASE	83105	2	ZN	.0078	.0046	.0064	.0208	.0318	.0456	.0518	65.0
SPRING - RELEASE TRIGGER	83106	1	STL	.0007	.0090			.0090	.0129	.0147	
RETAINER	83107	1	PLAS	.0029	.0029	.0032	.0052	.0113	.0162	.0184	15.0
KNOB - LOCK HOUSING	83109	1	ZN	.0504	.0277	.0116	.0265	.0658	.0946	.1075	60.0
CAP	83110	1	AL	.0018	.0055	.0016	.0043	.0114	.0164	.0186	10.0
BEZEL	83111	1	PLAS	.0081	.0079	.0026	.0026	.0131	.0188	.0214	15.0
LATCH	83112	2	ZN	.0096	.0056	.0064	.0208	.0328	.0472	.0536	65.0
TUMBLER - GLOVE BOX LOCK	83113	5	BRS	.0050	.0335	.0085	.0290	.0710	.1020	.1160	50.0
TUMBLER SPRING	83114	5	WIRE	.0005	.0100			.0100	.0145	.0165	
ROLLER	83118	2	RUB	.0012	.0040			.0040	.0058	.0066	
ASSEMBLY COST					.0078	.4441	.3378	.7897	1.1348	1.2891	10.5

VEHICLE- 04- FORD CROWN VICTORIA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.2822	1.3298			1.3298	1.9109	2.1708	232.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.2378	.9040			.9040	1.2990	1.4757	117.0
ASM - WINDOW REGULATOR KNOB	83122	1	ASSY	.0377	.1393			.1393	.2002	.2274	80.0
WASHER - SPRING	83127	1	STL	.0002	.0100			.0100	.0144	.0164	
WASHER - SPACER	83128	1	STL	.0022	.0200			.0200	.0287	.0326	
SPACER - WINDOW REG. HANDLE	83129	1	PLYP	.0043	.0214			.0214	.0308	.0350	25.0
ASSEMBLY COST					.2351			.2351	.3378	.3837	10.0

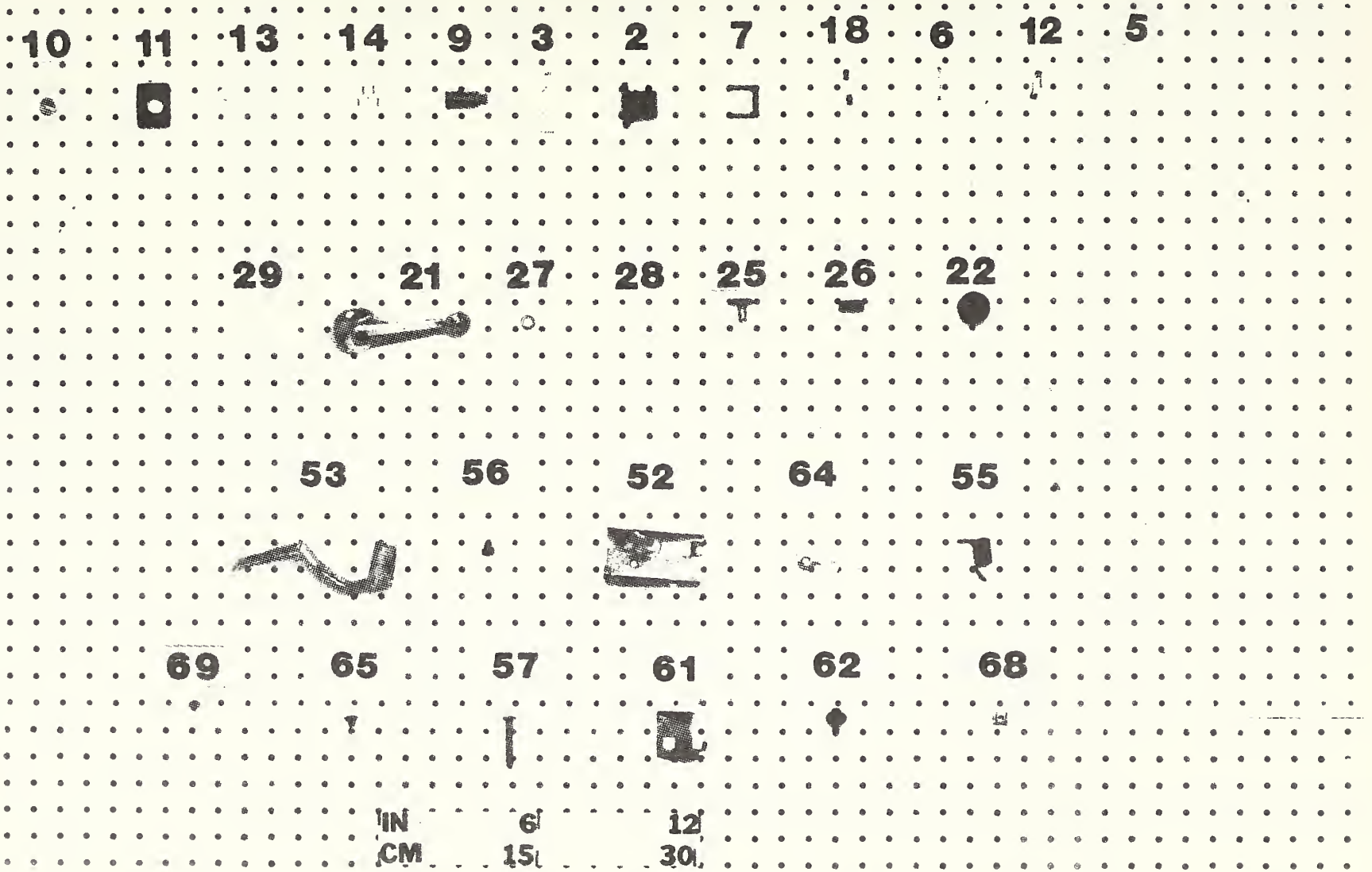
VEHICLE- 04- FORD CROWN VICTORIA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR KNOB	83122	2	ASSY	.0377	.1393			.1393	.2002	.2274	80.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0140	.0150			.0150	.0216	.0245	
SHAFT - WINDOW REG. KNOB	83125	1	CRS	.0132	.0193			.0193	.0277	.0315	35.0
CAP - WINDOW REG. KNOB	83126	1	CRS	.0105	.0237			.0237	.0341	.0387	20.0
ASSEMBLY COST					.0813			.0813	.1168	.1327	25.0

VEHICLE- 04- FORD CROWN VICTORIA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.8504	2.1208			2.1208	3.0478	3.4621	368.0
HOUSING - HANDLE	83152	1	CRS	.2574	.2820			.2820	.4052	.4603	125.0
HANDLE	83153	1	ZN	.3786	.9944			.9944	1.4290	1.6233	117.0
RETURN SPRING	83155	1	STWR	.0409	.1328			.1328	.1908	.2167	2.0
RUBBER BUMPER	83156	1	RUB	.0013	.0384			.0384	.0552	.0627	15.0
RETAINING PIN	83157	1	CRS	.0271	.0384			.0384	.0552	.0627	5.0
BRACKET - INNER	83161	1	CRS	.0836	.2099			.2099	.3016	.3426	80.0
BOLT - M6	83162	1	STL	.0198	.0400			.0400	.0575	.0653	
PAWL - LINK	83164	1	CRS	.0200	.0285			.0285	.0410	.0466	5.0
PIN - PAWL RETAINER	83165	1	STL	.0068	.0150			.0150	.0216	.0245	
NUT	83168	1	STL	.0105	.0400			.0400	.0575	.0653	
RIVET - PAWL BRACKET	83169	1	STL	.0044	.0150			.0150	.0216	.0245	
ASSEMBLY COST					.2864			.2864	.4116	.4676	19.0

1983 FORD CROWN VICTORIA BOARD 1



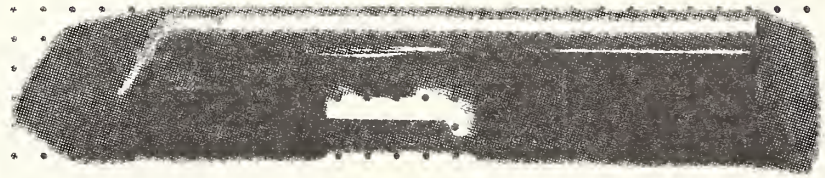
VEHICLE- 04- FORD CROWN VICTORIA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	2.0407	2.1662			2.1662	3.1129	3.5363	100.0
FOAM PAD	83202	1	URE	.4923	.4683			.4683	.6729	.7644	
SUPPORT	83203	1	URE	.6741	.7720			.7720	1.1094	1.2603	40.0
COVER	83205	1	PVC	.8743	.7919			.7919	1.1380	1.2928	30.0
ASSEMBLY COST					.1340			.1340	.1926	.2188	30.0

VEHICLE- 04- FORD CROWN VICTORIA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	.9704	2.6231			2.6231	3.7692	4.2819	201.0
HINGE ROD	83221	1	CRS	.1678	.5864			.5864	.8427	.9573	20.0
HINGE BRACKET - VISOR	83222	1	ZN	.0616	.4521			.4521	.6497	.7381	73.0
HINGE REINFORCEMENT - VISOR	83223	1	G/ST	.1769	.1170			.1170	.1681	.1910	20.0
WASHER	83226	2	STL	.0026	.0300			.0300	.0432	.0490	
SPRING	83227	1	STWR	.0055	.0450			.0450	.0647	.0735	
STIFFENER - SUNVISOR	83229	1	F/BD	.2643	.1052			.1052	.1512	.1718	15.0
COVER - SUNVISOR	83230	1	RBFB	.0653	.4645			.4645	.6675	.7583	12.0
PAD - FRICTION COATED - VISOR	83231	1	PAP.	.1958	.0650			.0650	.0934	.1061	10.0
OUTER BEAD COVER - VISOR	83232	1	PLAS	.0215	.0368			.0368	.0529	.0601	20.0
STAPLE	83235	9	STL	.0054	.0090			.0090	.0126	.0144	
CLIP END	83236	1	SSTL	.0022	.0200			.0200	.0287	.0326	
CLIP END - OUTER	83249	1	SSTL	.0015	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.6721			.6721	.9658	1.0971	31.0

1983 FORD CROWN VICTORIA BOARD 2



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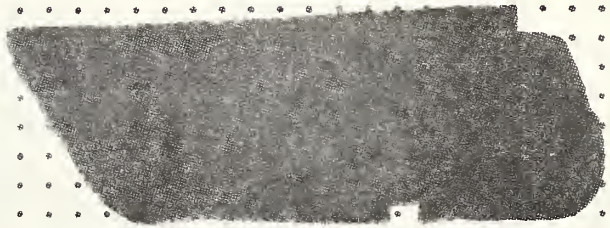

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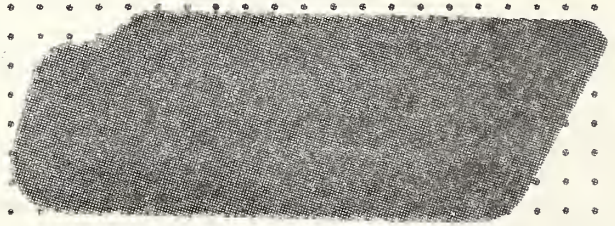

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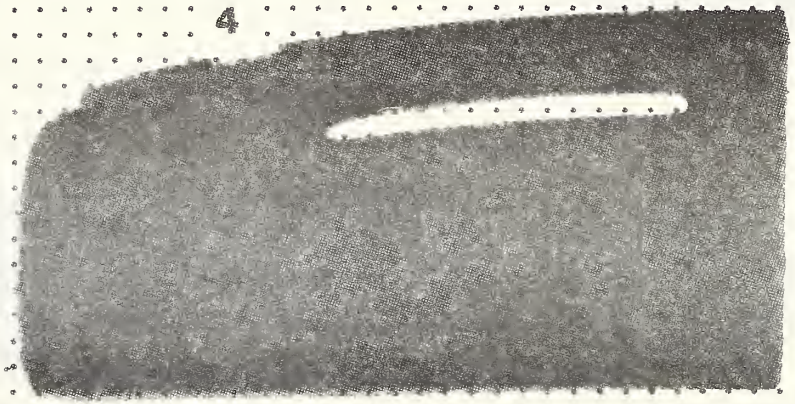
IN 6 12
CM 15 30

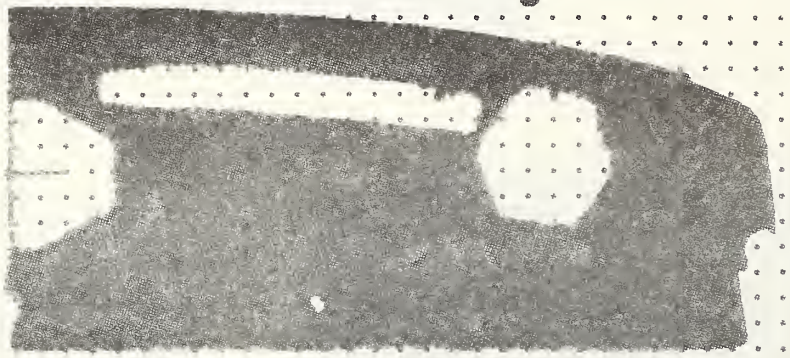
A-58

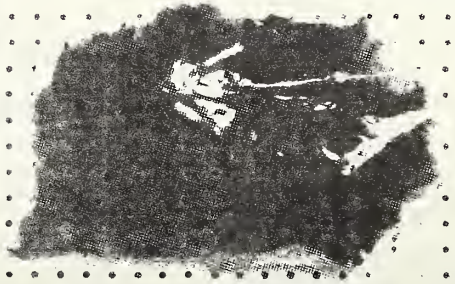
VEHICLE- 04- FORD CROWN VICTORIA

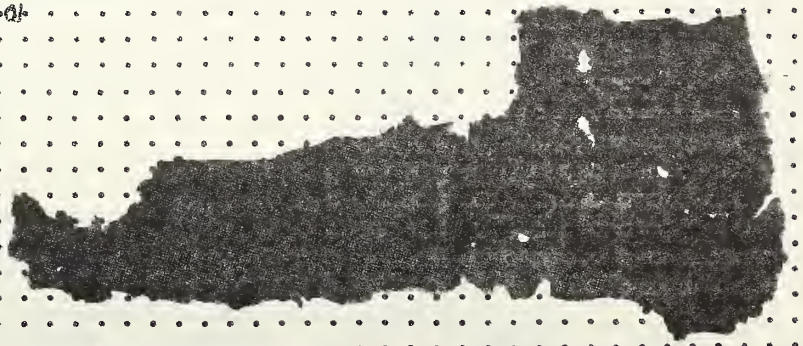
DESCRIPTION	ITEM NO.1	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	6.5349	13.3803			13.3803	19.2274	21.8424	296.0
FOAM - INST. PNL. PAD	83302	1	PLYF	2.0350	2.9380			2.9380	4.2219	4.7961	
SUPPORT - INST. PNL. PAD	83303	1	ABS	3.0000	6.9820			6.9820	10.0331	11.3976	180.0
COVER - INST. PNL. PAD	83304	1	PLAS	.8664	1.4744			1.4744	2.1187	2.4068	27.0
U-NUT	83307	5	STL	.0465	.1350			.1350	.1940	.2205	
REINFORCEMENT - INST. PNL. PAD SUP	83308	1	CRS	.3538	.2732			.2732	.3926	.4460	15.0
INSULATION - INST. PNL. PAD	83309	1	FELT	.2332	.6570			.6570	.9441	1.0725	10.0
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

1983
FORD CROWN VICTORIA BOARD 3









IN 6 12
CM 15 30

A-60

VEHICLE- 04- FORD CROWN VICTORIA

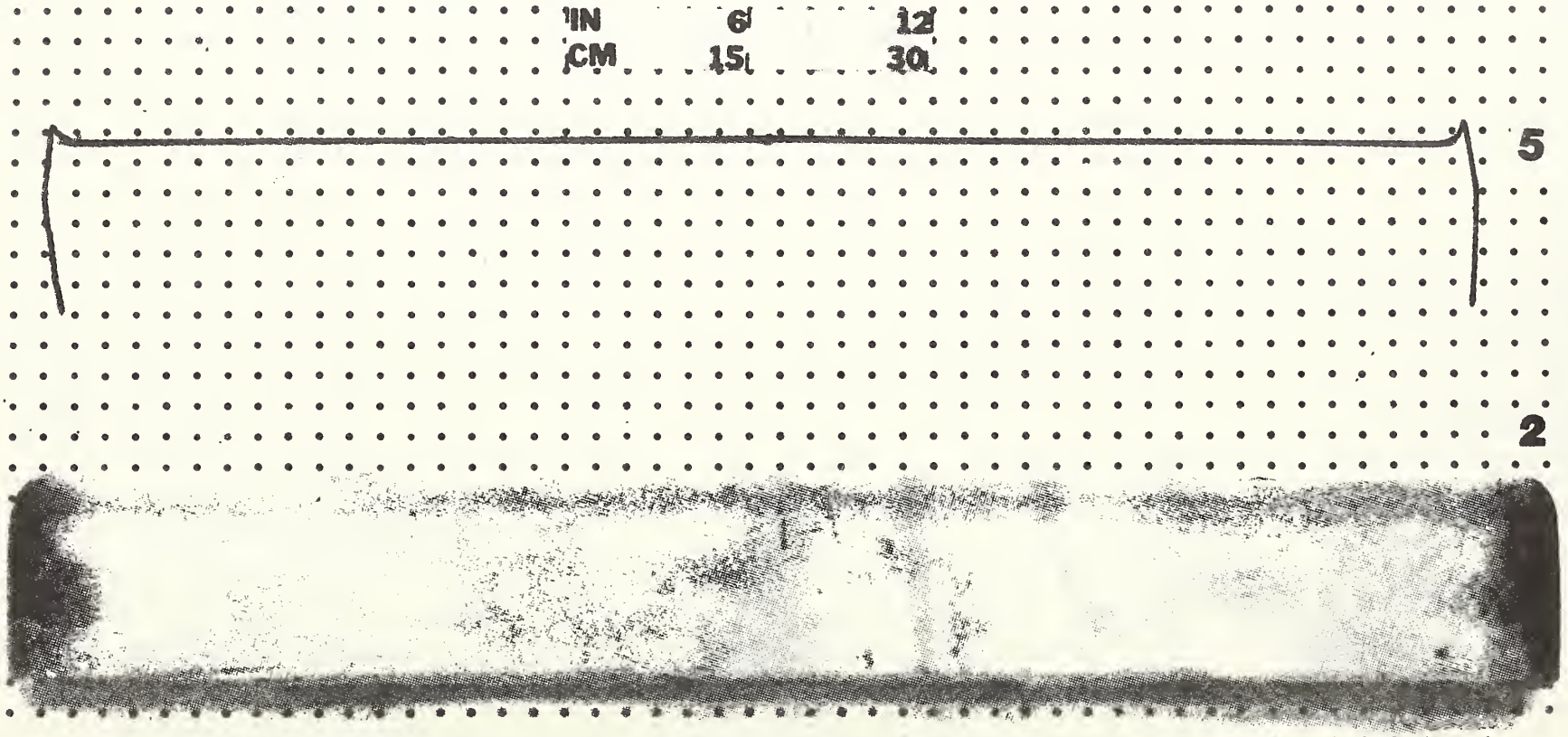
DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	1	ASSY	1.8095	1.3609			1.3609	1.9556	2.2215	
MAIN PAD	83402	1	FMRB	1.4997	1.2723			1.2723	1.8283	2.0769	
BORDER WIRE	83405	1	STWR	.3098	.0886			.0886	.1273	.1446	
ASSEMBLY COST											

VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
FORD LTD		1		11.4876	26.8677	.4983	.4816	27.8476	40.0161	45.4588	1366.5
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.1234	.1564	.4983	.4816	1.1363	1.6330	1.8554	340.5
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.5534	2.6440			2.6440	3.7992	4.3160	232.0
ASM - DOOR HANDLE	83151	2	ASSY	.2628	1.1828			1.1828	1.6998	1.9310	145.0
ASM - ARM REST	83201	2	ASSY	2.8864	3.5468			3.5468	5.0968	5.7898	80.0
ASM - SUNVISOR	83220	2	ASSY	1.7146	5.1258			5.1258	7.3650	8.3668	208.0
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	4.5250	12.7837			12.7837	18.3699	20.8682	361.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.4220	1.4282			1.4282	2.0524	2.3316	
ASSEMBLY COST											

* *

1983
FORD CROWN VICTORIA BOARD 4



VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.1234	.1564	.4983	.4816	1.1363	1.6330	1.8554	340.5
HOUSING - GLOVE BOX LOCK	83102	1	PLAS	.0242	.0235	.0013	.0026	.0274	.0394	.0448	20.0
RELEASE BUTTON	83103	2	ABS	.0112	.0144	.0126	.0320	.0590	.0848	.0964	30.0
TRIGGER - RELEASE	83105	2	ZN	.0078	.0046	.0064	.0208	.0318	.0456	.0518	65.0
SPRING - RELEASE TRIGGER	83106	1	STL	.0007	.0090			.0090	.0129	.0147	
RETAINER	83107	1	PLAS	.0029	.0029	.0032	.0052	.0113	.0162	.0184	15.0
KNOB - LOCK HOUSING	83109	1	ZN	.0504	.0277	.0116	.0265	.0658	.0946	.1075	60.0
CAP	83110	1	AL	.0018	.0055	.0016	.0043	.0114	.0164	.0186	10.0
BEZEL	83111	1	PLAS	.0081	.0079	.0026	.0026	.0131	.0188	.0214	15.0
LATCH	83112	2	ZN	.0096	.0056	.0064	.0208	.0328	.0472	.0536	65.0
TUMBLER - GLOVE BOX LOCK	83113	5	BRS	.0050	.0335	.0085	.0290	.0710	.1020	.1160	50.0
TUMBLER SPRING	83114	5	WIRE	.0005	.0100			.0100	.0145	.0165	
ROLLER	83118	2	RUB	.0012	.0040			.0040	.0058	.0066	
ASSEMBLY COST					.0078	.4441	.3378	.7897	1.1348	1.2891	10.5

VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.2767	1.3220			1.3220	1.8996	2.1580	232.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.2371	.9065			.9065	1.3026	1.4798	117.0
ASM - WINDOW REGULATOR KNOB	83122	1	ASSY	.0342	.1303			.1303	.1872	.2127	80.0
WASHER - SPRING	83127	1	STL	.0005	.0100			.0100	.0144	.0164	
WASHER - SPACER	83128	1	STL	.0023	.0200			.0200	.0287	.0326	
SPACER - WINDOW REGULATOR	83129	1	PLYP	.0026	.0201			.0201	.0289	.0328	25.0
ASSEMBLY COST					.2351			.2351	.3378	.3837	10.0

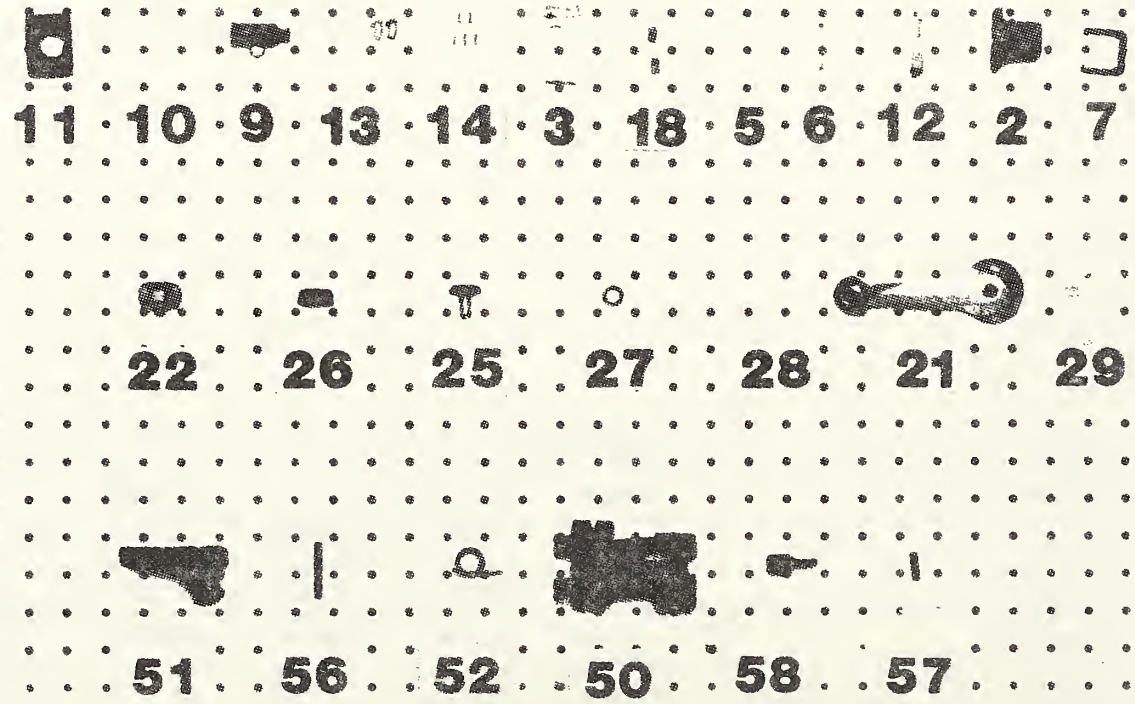
VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR KNOB	83122	2	ASSY	.0342	.1303			.1303	.1872	.2127	80.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0105	.0060			.0060	.0086	.0098	
SHAFT - WINDOW REG. KNOB	83125	1	CRS	.0132	.0193			.0193	.0277	.0315	35.0
CAP - WINDOW REG. KNOB	83126	1	CRS	.0105	.0237			.0237	.0341	.0387	20.0
ASSEMBLY COST					.0813			.0813	.1168	.1327	25.0

VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.1314	.5914			.5914	.8499	.9655	145.0
HOUSING - DOOR HANDLE	83152	1	ABS	.0618	.1125			.1125	.1617	.1837	35.0
HANDLE - DOOR	83153	1	ABS	.0398	.0818			.0818	.1175	.1335	35.0
RETURN SPRING - DOOR HANDLE	83155	1	WIRE	.0125	.0664			.0664	.0954	.1084	25.0
RETAINING PIN	83157	1	STL	.0040	.0100			.0100	.0144	.0164	
PAWL (LINK) - DOOR LOCK	83164	1	PLAS	.0058	.0330			.0330	.0474	.0538	25.0
ROLL PIN - PAWL	83165	1	STL	.0075	.0150			.0150	.0216	.0245	
ASSEMBLY COST					.2727			.2727	.3919	.4452	25.0

1983 FORD L.T.D. BOARD 1



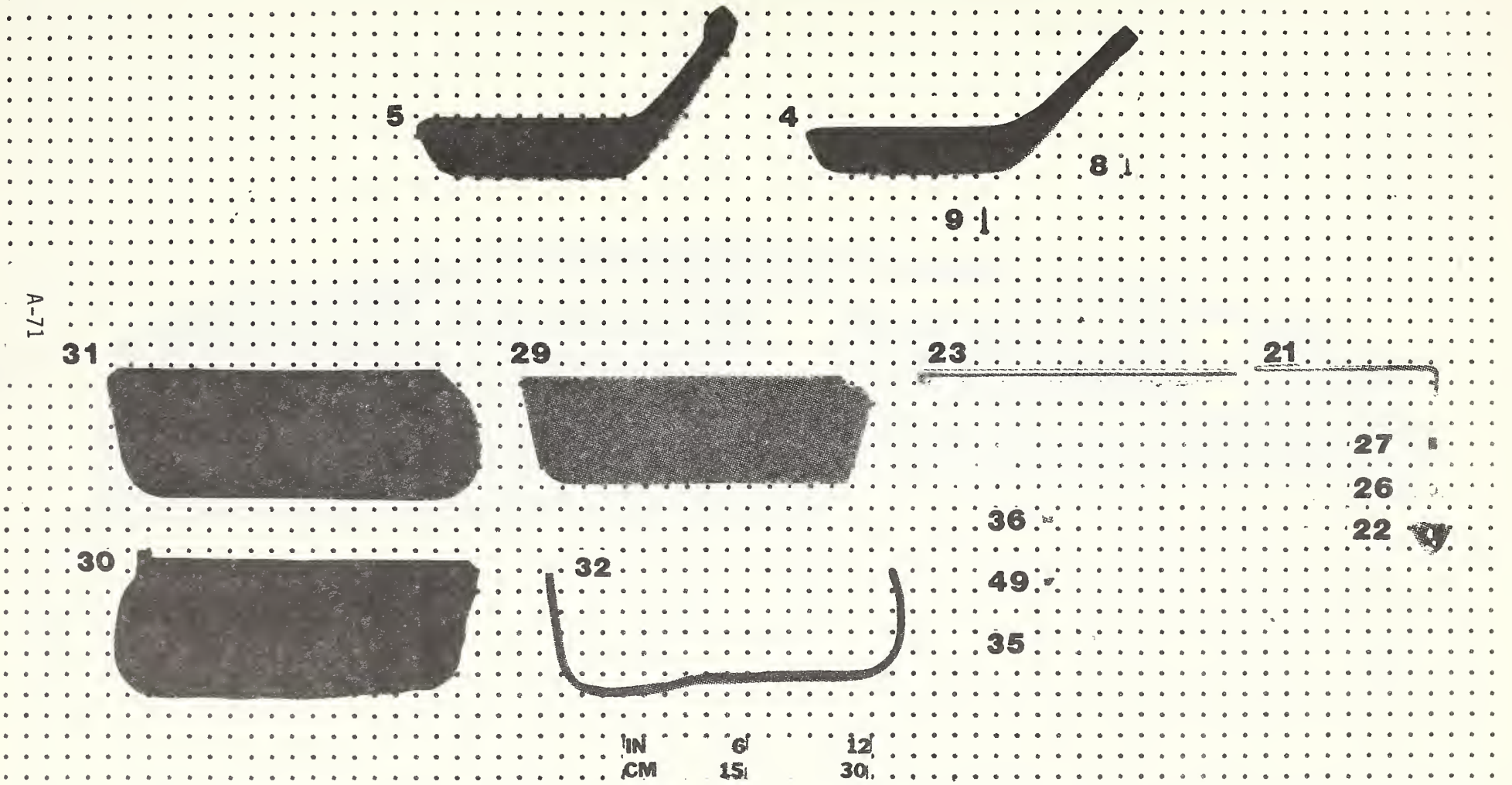
VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	1.4432	1.7734			1.7734	2.5484	2.8949	80.0
REINFORCEMENT - ARM REST	83204	1	ABS	.5500	.9049			.9049	1.3003	1.4771	35.0
COVER - ARM REST	83205	1	PVC	.8932	.6432			.6432	.9243	1.0500	
ASSEMBLY COST					.2253			.2253	.3238	.3678	45.0

VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	.8573	2.5629			2.5629	3.6825	4.1834	208.0
HINGE ROD	83221	1	CRS	.1721	.6625			.6625	.9520	1.0815	27.0
HINGE BRACKET - VISOR	83222	1	ZN	.0616	.4521			.4521	.6497	.7381	73.0
HINGE REINFORCEMENT - VISOR	83223	1	G/ST	.1473	.1210			.1210	.1739	.1976	20.0
WASHER	83226	1	STL	.0013	.0150			.0150	.0216	.0245	
SPRING	83227	1	STWR	.0055	.0450			.0450	.0647	.0735	
STIFFENER - SUNVISOR	83229	1	F/BD	.2451	.1012			.1012	.1454	.1652	15.0
COVER - SUNVISOR	83230	1	RBFB	.0483	.3460			.3460	.4972	.5648	12.0
PAD - FRICTION COATED - VISOR	83231	1	PAP	.1437	.0568			.0568	.0816	.0927	10.0
OUTER BEAD COVER - VISOR	83232	1	PLAS	.0231	.0422			.0422	.0606	.0688	20.0
STAPLE	83235	9	STL	.0054	.0090			.0090	.0126	.0144	
CLIP END	83236	1	SSTL	.0020	.0200			.0200	.0287	.0326	
CLIP END - OUTER	83249	1	SSTL	.0019	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.6721			.6721	.9658	1.0971	31.0

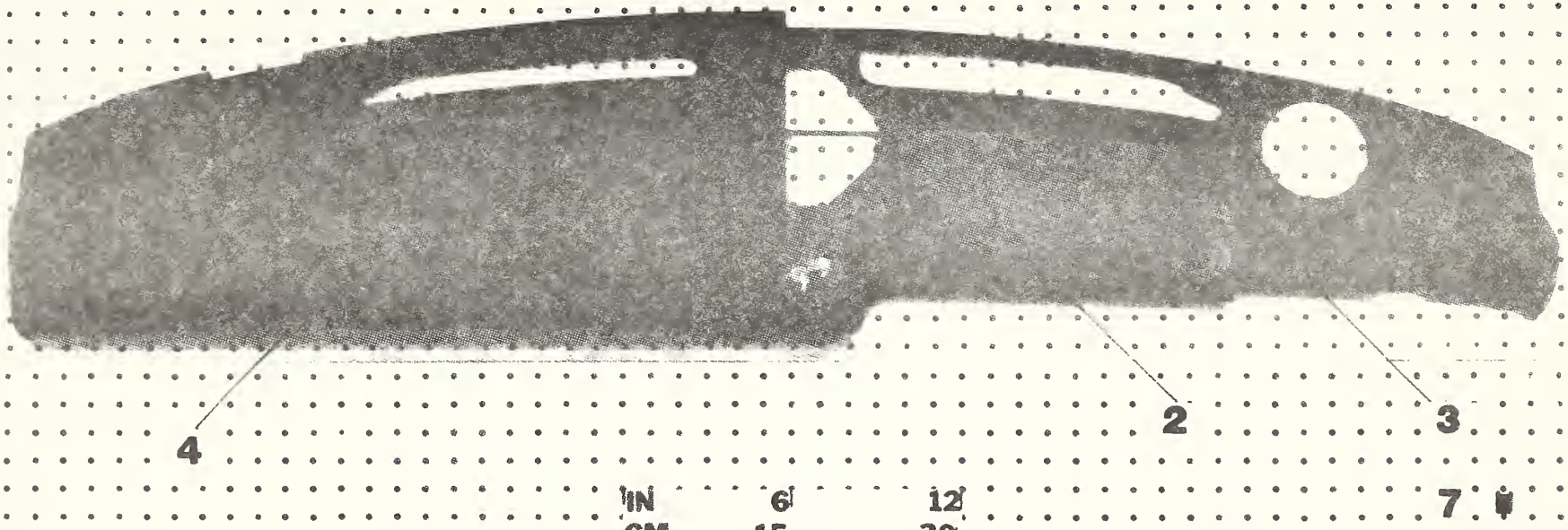
1983 FORD L.T.D. BOARD 2



VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	4.5250	12.7837			12.7837	18.3699	20.8682	361.0
FOAM - INST. PNL. PAD	83302	1	PLYF	.9953	1.3063			1.3063	1.8772	2.1325	
REINFORCEMENT - INST. PNL. PAD	83303	1	ABS	2.6504	8.9939			8.9939	12.9242	14.6819	270.0
COVER - INST. PNL. PAD	83304	1	PLAS	.8409	1.4428			1.4428	2.0733	2.3553	27.0
U-NUT	83307	6	STL	.0384	.1200			.1200	.1722	.1956	
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

1983
FORD L.T.D. BOARD 3



VEHICLE- 05- FORD LTD

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.7110	.7141			.7141	1.0262	1.1658	
MAIN PAD	83402	1	FMRB	.5375	.4560			.4560	.6553	.7444	
PAD CROWN SUPPORT	83404	1	FMRB	.1471	.2505			.2505	.3600	.4090	
BORDER WIRE	83405	1	STWR	.0264	.0076			.0076	.0109	.0124	
ASSEMBLY COST											

VEHICLE- 06- FORD MUSTANG

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
FORD MUSTANG		1		11.4955	26.7543	.3636	.3159	27.4338	39.4216	44.7834	1184.0
ASM - GLOVE BOX LOCK	83101	1	ASSY	.0871	.1472	.3636	.3159	.8267	1.1881	1.3498	159.0
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.5568	2.6464			2.6464	3.8026	4.3200	232.0
ASM - DOOR HANDLE	83151	2	ASSY	.2628	1.1828			1.1828	1.6998	1.9310	145.0
ASM - ARM REST	83201	2	ASSY	2.8864	3.5468			3.5468	5.0968	5.7898	80.0
ASM - SUNVISOR	83220	2	ASSY	1.6952	4.8002			4.8002	6.8974	7.8356	207.0
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	4.5250	12.7837			12.7837	18.3699	20.8682	361.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.4822	1.6472			1.6472	2.3670	2.6890	
ASSEMBLY COST											

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1983
FORD L.T.D. BOARD 4

IN 6 12
CM 15 30

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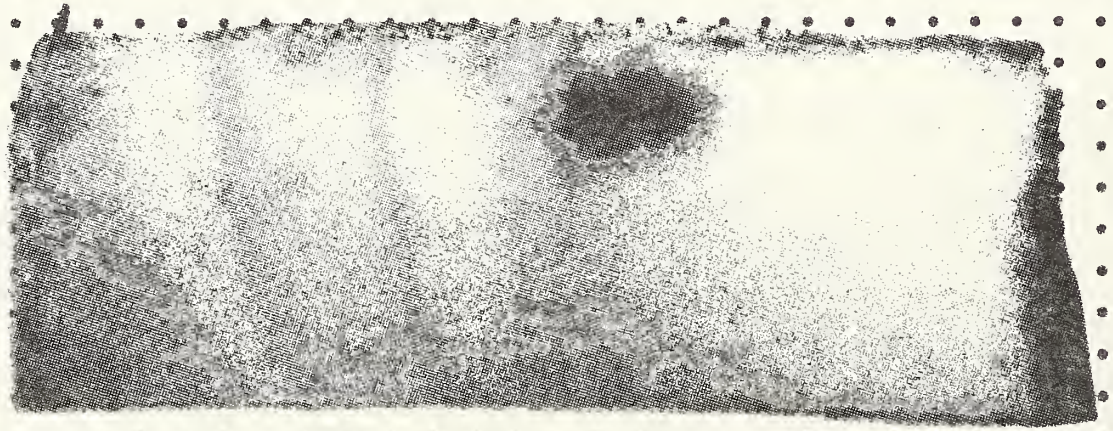

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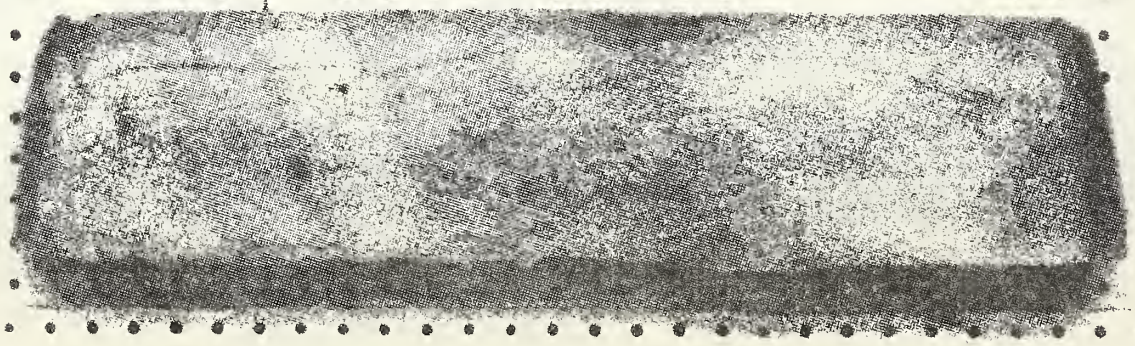

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A-76

VEHICLE- 06- FORD MUSTANG

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE BOX LOCK	83101	1	ASSY	.0871	.1472	.3636	.3159	.8267	1.1881	1.3498	159.0
HOUSING - GLOVE BOX LOCK	83102	1	PLAS	.0242	.0273	.0032	.0052	.0357	.0513	.0583	20.0
SPRING - RELEASE BUTTON	83104	1	WIRE	.0018	.0150			.0150	.0216	.0245	
RETAINER - GLOVE BOX LOCK	83107	1	PLAS	.0048	.0059	.0032	.0052	.0143	.0205	.0233	20.0
RELEASE HANDLE - GLOVE BOX LOCK	83109	1	PLAS	.0249	.0282	.0045	.0052	.0379	.0545	.0619	20.0
LATCH - GLOVE BOX LOCK	83112	1	PLAS	.0046	.0045	.0032	.0052	.0129	.0185	.0210	20.0
TUMBLER - GLOVE BOX LOCK	83113	5	BRS	.0050	.0335	.0085	.0290	.0710	.1020	.1160	50.0
TUMBLER SPRING	83114	5	WIRE	.0005	.0100			.0100	.0145	.0165	
STRIKER - GLOVE BOX	83115	1	WIRE	.0200	.0069	.0040	.0108	.0217	.0312	.0354	20.0
SPRING - STRIKER RELEASE	83117	1	STL	.0013	.0100			.0100	.0144	.0164	
ASSEMBLY COST					.0059	.3370	.2553	.5982	.8596	.9765	9.0

VEHICLE- 06- FORD MUSTANG

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.2784	1.3232			1.3232	1.9013	2.1600	232.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.2371	.9065			.9065	1.3026	1.4798	117.0
ASM - WINDOW REGULATOR KNOB	83122	1	ASSY	.0342	.1303			.1303	.1872	.2127	80.0
WASHER - SPRING	83127	1	STL	.0005	.0100			.0100	.0144	.0164	
WASHER - SPACER	83128	1	STL	.0023	.0200			.0200	.0287	.0326	
SPACER - WINDOW REGULATOR	83129	1	PLYP	.0043	.0213			.0213	.0306	.0348	25.0
ASSEMBLY COST					.2351			.2351	.3378	.3837	10.0

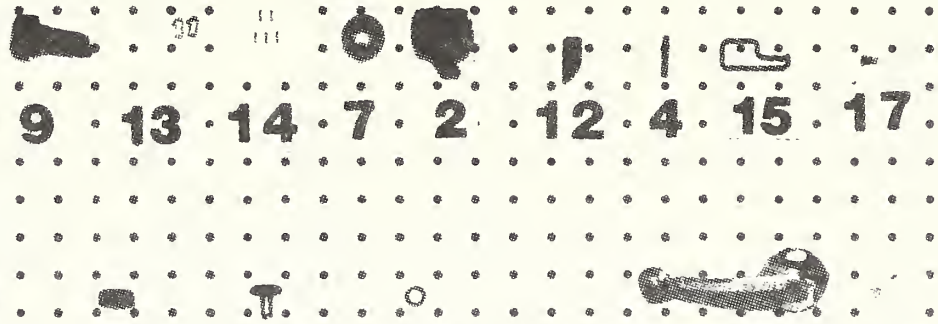
VEHICLE- 06- FORD MUSTANG

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR KNOB	83122	2	ASSY	.0342	.1303			.1303	.1872	.2127	80.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0105	.0060			.0060	.0086	.0098	
SHAFT - WINDOW REG. KNOB	83125	1	CRS	.0132	.0193			.0193	.0277	.0315	35.0
CAP - WINDOW REG. KNOB	83126	1	CRS	.0105	.0237			.0237	.0341	.0387	20.0
ASSEMBLY COST					.0813			.0813	.1168	.1327	25.0

VEHICLE- 06- FORD MUSTANG

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.1314	.5914			.5914	.8499	.9655	145.0
HOUSING - DOOR HANDLE	83152	1	ABS	.0618	.1125			.1125	.1617	.1837	35.0
HANDLE - DOOR	83153	1	ABS	.0398	.0818			.0818	.1175	.1335	35.0
RETURN SPRING - DOOR HANDLE	83155	1	WIRE	.0125	.0664			.0664	.0954	.1084	25.0
RETAINING PIN	83157	1	STL	.0040	.0100			.0100	.0144	.0164	
PAWL (LINK) - DOOR LOCK	83164	1	PLAS	.0058	.0330			.0330	.0474	.0538	25.0
ROLL PIN - PAWL	83165	1	STL	.0075	.0150			.0150	.0216	.0245	
ASSEMBLY COST					.2727			.2727	.3919	.4452	25.0

1983 FORD MUSTANG BOARD 1



A-81

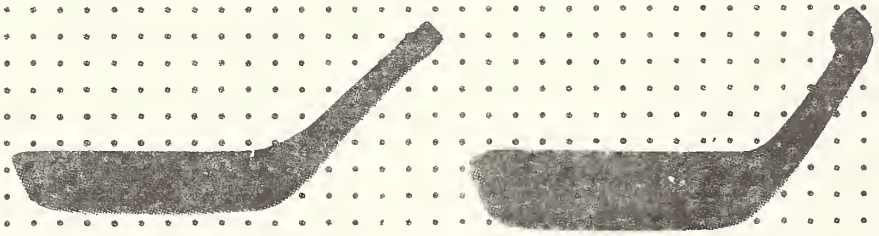
VEHICLE- 06- FORD MUSTANG

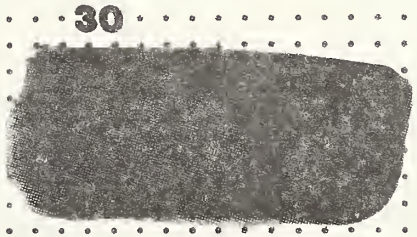
DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	1.4432	1.7734			1.7734	2.5484	2.8949	80.0
REINFORCEMENT - ARM REST	83204	1	ABS	.5500	.9049			.9049	1.3003	1.4771	35.0
COVER - ARM REST	83205	1	PVC	.8932	.6432			.6432	.9243	1.0500	
ASSEMBLY COST					.2253			.2253	.3238	.3678	45.0

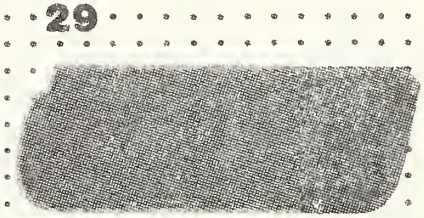
VEHICLE- 06- FORD MUSTANG

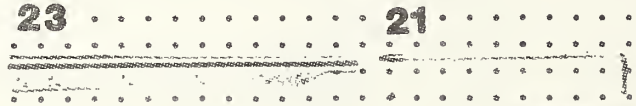
DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	.8476	2.4001			2.4001	3.4487	3.9178	207.0
HINGE ROD	83221	1	CRS	.1721	.6625			.6625	.9520	1.0815	27.0
HINGE BRACKET	83222	1	ZN	.0616	.4521			.4521	.6497	.7381	73.0
HINGE REINFORCEMENT - VISOR	83223	1	G/ST	.1518	.1058			.1058	.1520	.1727	20.0
WASHER	83226	2	STL	.0022	.0300			.0300	.0432	.0490	
SPRING	83227	1	STWR	.0055	.0450			.0450	.0647	.0735	
STIFFENER - SUNVISOR	83229	1	F/BD	.2215	.1012			.1012	.1454	.1652	15.0
COVER - SUNVISOR	83230	1	VAR	.1001	.0635			.0635	.0912	.1036	.5
PADDING - SUNVISOR	83231	2	PLYF	.0726	.1322			.1322	.1900	.2158	15.0
OUTER BEAD COVER - SUNVISOR	83232	1	PLAS	.0213	.0359			.0359	.0516	.0586	20.0
STAPLE	83235	6	STL	.0036	.0060			.0060	.0084	.0096	
CLIP END	83236	1	SSTL	.0018	.0200			.0200	.0287	.0326	
STORAGE STRAP - SUNVISOR	83248	1	VAR	.0317	.0797			.0797	.1145	.1301	5.5
CLIP END - OUTER	83249	1	SSTL	.0018	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.6462			.6462	.9286	1.0549	31.0

1983 FORD MUSTANG BOARD 2









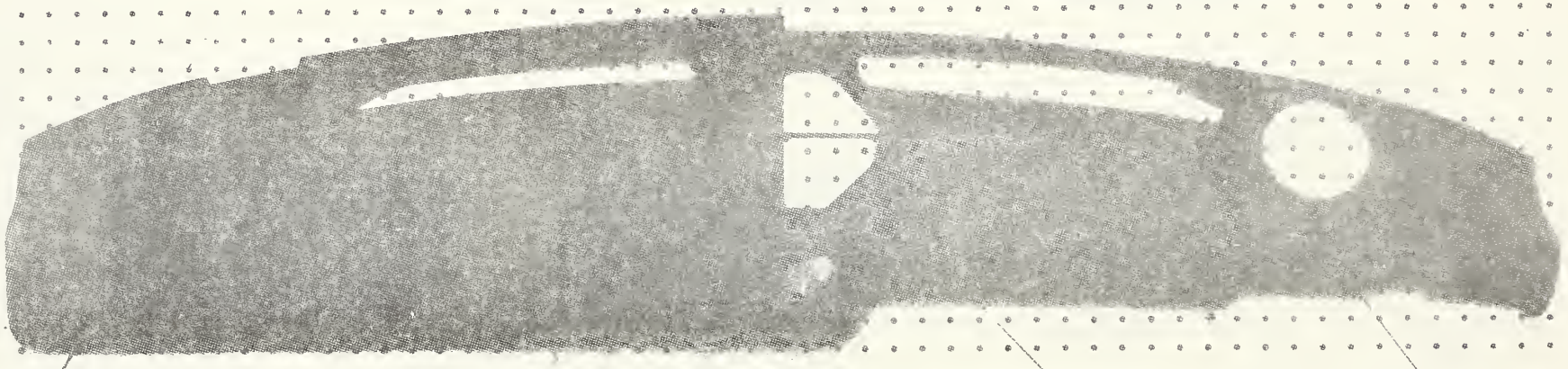
IN 6 12
CM 15 30

A-84

VEHICLE- 06- FORD MUSTANG

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	4.5250	12.7837			12.7837	18.3699	20.8682	361.0
FOAM - INST. PNL. PAD	83302	1	PLYF	.9953	1.3063			1.3063	1.8772	2.1325	
REINFORCEMENT - INST. PNL. PAD	83303	1	ABS	2.6504	8.9939			8.9939	12.9242	14.6819	270.0
COVER - INST. PNL. PAD	83304	1	PLAS	.8409	1.4428			1.4428	2.0733	2.3553	27.0
U-NUT	83307	6	STL	.0384	.1200			.1200	.1722	.1956	
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

1983
FORD MUSTANG BOARD 3



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IN 6 12
CM 15 30

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A-86

VEHICLE- 06- FORD MUSTANG

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.7411	.8236			.8236	1.1835	1.3445	
MAIN PAD	83402	1	FMRB	.5317	.4511			.4511	.6482	.7364	
PAD CROWN SUPPORT	83404	1	FMRB	.1430	.3535			.3535	.5080	.5771	
BORDER WIRE	83405	1	STWR	.0664	.0190			.0190	.0273	.0310	
ASSEMBLY COST											

VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
CHRYSLER FIFTH AVENUE		1		13.1048	24.8449	.5356	.5891	25.9696	37.3176	42.3921	1640.0
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2925	.2972	.5356	.5891	1.4219	2.0434	2.3210	322.5
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.3960	2.3660			2.3660	3.4000	3.8624	310.0
ASM - DOOR HANDLE	83151	2	ASSY	1.1052	3.8196			3.8196	5.4886	6.2348	197.0
ASM - ARM REST	83201	2	ASSY	.8878	1.7314			1.7314	2.4882	2.8266	115.0
ASM - SUNVISOR	83220	2	ASSY	2.2842	4.3274			4.3274	6.2176	7.0632	173.0
ASM - PASSENGER ASSIST HANDLE	83260	1	ASSY	.3380	1.6956			1.6956	2.4366	2.7680	96.5
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	5.9603	8.6417			8.6417	12.4180	14.1067	426.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.8408	1.9660			1.9660	2.8252	3.2094	
ASSEMBLY COST											

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FORD MUSTANG BOARD 4

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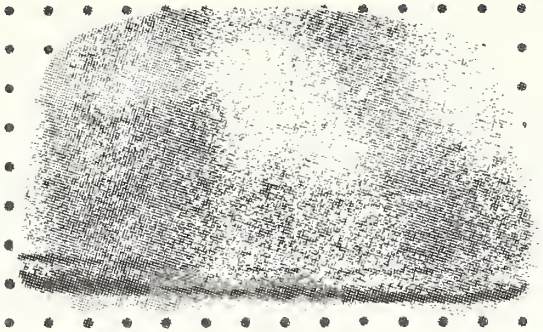
2



IN 6 12
CM 15 30

VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.2925	.2972	.5356	.5891	1.4219	2.0434	2.3210	322.5
HOUSING - GLOVE BOX LOCK	83102	1	ZN	.1056	.0589	.0254	.0550	.1393	.2002	.2274	70.0
RELEASE KNOB	83103	1	ZN	.0396	.0274	.1261	.1672	.3207	.4608	.5235	67.0
SPRING - RELEASE BUTTON	83104	1	STL	.0007	.0150			.0150	.0216	.0245	
SPRING - RELEASE TRIGGER	83106	1	STL	.0008	.0170			.0170	.0244	.0277	
RETAINER PIN	83108	1	STL	.0074	.0100			.0100	.0144	.0164	
KNOB - LOCK HOUSING	83109	1	ZN	.0403	.0222	.0116	.0265	.0603	.0867	.0985	60.0
LATCH - GLOVE BOX	83112	1	HRS	.0077	.0071	.0047	.0166	.0284	.0408	.0463	25.0
TUMBLER - GLOVE BOX LOCK	83113	4	BRS	.0028	.0076	.0068	.0232	.0376	.0540	.0612	50.0
TUMBLER SPRING	83114	4	SPST	.0004	.0080			.0080	.0116	.0132	
STRIKER - GLOVE BOX LOCK	83115	1	HRS	.0765	.0418	.0088	.0320	.0826	.1187	.1348	40.0
WASHER	83119	1	STL	.0019	.0050			.0050	.0072	.0082	
ROLL PIN	83119A	1	AL	.0010	.0010			.0010	.0014	.0016	
MOUNTING SCREW	83119B	2	STL	.0078	.0700			.0700	.1006	.1142	
ASSEMBLY COST					.0062	.3522	.2686	.6270	.9010	1.0235	10.5

VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.1980	1.1830			1.1830	1.7000	1.9312	310.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.1482	.8511			.8511	1.2230	1.3893	115.0
ASM - WINDOW REGULATOR KNOB	83122	1	ASSY	.0415	.2388			.2388	.3432	.3899	155.0
SPACER - WINDOW REGULATOR	83129	1	PLYP	.0083	.0243			.0243	.0349	.0396	25.0
ASSEMBLY COST					.0688			.0688	.0989	.1124	15.0

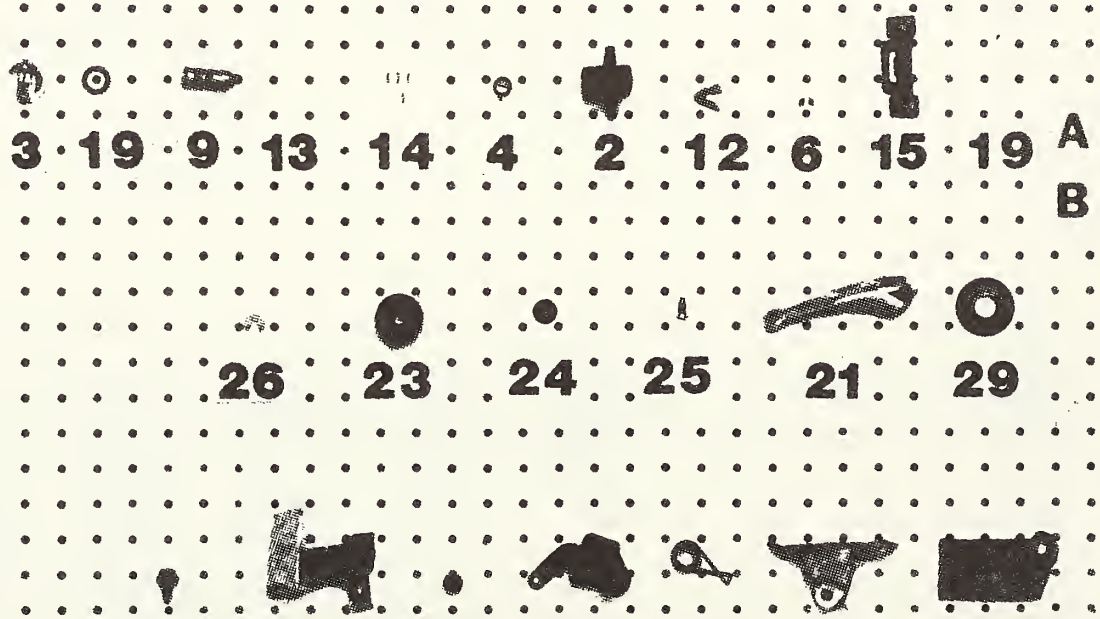
VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR KNOB	83122	2	ASSY	.0415	.2388			.2388	.3432	.3899	155.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0323	.0230			.0230	.0331	.0376	
GROMMET - WINDOW REG. KNOB	83124	1	PVC	.0022	.0067			.0067	.0096	.0109	25.0
SHAFT - WINDOW REG. KNOB	83125	1	CRS	.0061	.0095			.0095	.0137	.0156	10.0
CAP - WINDOW REG. KNOB	83126	1	AL	.0009	.0158			.0158	.0227	.0258	15.0
ASSEMBLY COST					.1838			.1838	.2641	.3000	105.0

VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.5526	1.9098			1.9098	2.7443	3.1174	197.0
HANDLE - DOOR	83153	1	ZN	.2049	.8863			.8863	1.2736	1.4468	27.0
RETURN SPRING - DOOR HANDLE	83155	1	STWR	.0349	.0907			.0907	.1303	.1480	2.0
RUBBER BUMPER - DOOR HANDLE	83156	1	RUB	.0019	.0574			.0574	.0825	.0937	25.0
RETAINING PIN - DOOR HANDLE	83157	1	CRS	.0269	.0359			.0359	.0516	.0586	2.0
BRACKET (OUTER) - DOOR HANDLE	83160	1	CRS	.1746	.3419			.3419	.4913	.5581	40.0
BRACKET (INNER) - DOOR HANDLE	83161	1	CRS	.0890	.1795			.1795	.2579	.2930	70.0
M6 BOLT	83162	1	STL	.0193	.0400			.0400	.0575	.0653	
PAD - DOOR HANDLE	83163	1	PLYF	.0011	.0605			.0605	.0869	.0987	15.0
ASSEMBLY COST					.2176			.2176	.3127	.3552	16.0

1983 CHRYSLER NEW YORKER 5th AVE. BOARD 1



A-94

VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	.4439	.8657			.8657	1.2441	1.4133	115.0
FOAM PAD	83202	1	URE	.0918	.0873			.0873	.1255	.1426	
REINFORCEMENT - ARM REST	83204	1	PVC	.1746	.3039			.3039	.4367	.4961	50.0
COVER - ARM REST	83205	1	PVC	.1775	.3405			.3405	.4893	.5558	40.0
ASSEMBLY COST					.1340			.1340	.1926	.2188	25.0

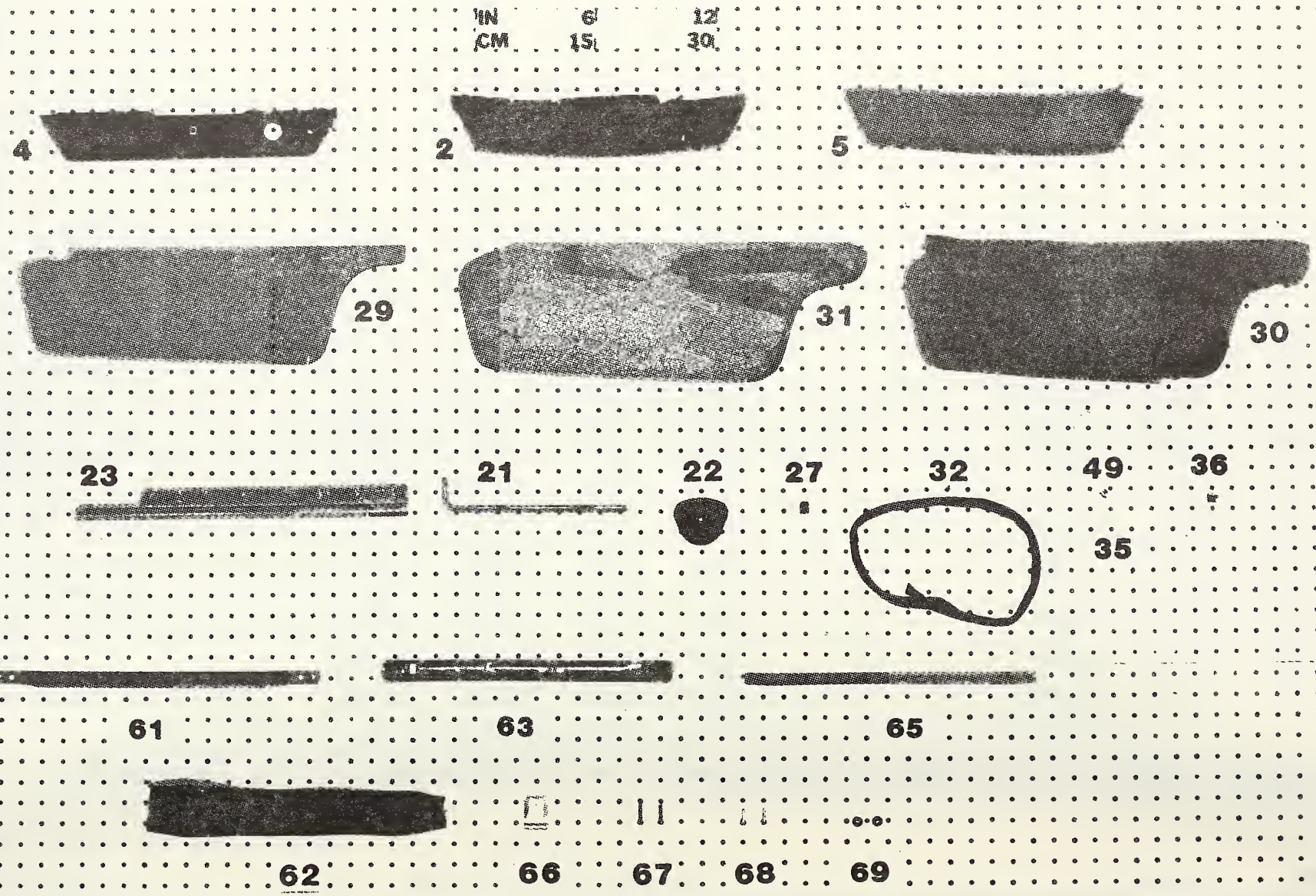
VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	1.1421	2.1637			2.1637	3.1088	3.5316	173.0
HINGE ROD - SUNVISOR	83221	1	CRS	.2125	.2884			.2884	.4144	.4708	3.0
HINGE BRACKET - SUNVISOR	83222	1	ZN	.1575	.1454			.1454	.2089	.2373	65.0
HINGE REINFORCEMENT - SUNVISOR	83223	1	G/ST	.2736	.2025			.2025	.2910	.3306	25.0
WASHER	83226	1	STL	.0014	.0150			.0150	.0216	.0245	
SPRING	83227	1	STWR	.0070	.0450			.0450	.0647	.0735	
STIFFENER - SUNVISOR	83229	1	F/BD	.2581	.0851			.0851	.1223	.1389	10.0
COVER - SUNVISOR	83230	1	CLO	.0671	.3566			.3566	.5124	.5821	10.0
PAD - SUNVISOR	83231	1	PAF	.1353	.0437			.0437	.0628	.0713	10.0
BEAD SEAM	83232	1	PLAS	.0231	.0394			.0394	.0566	.0643	20.0
STAPLE	83235	8	STL	.0040	.0080			.0080	.0112	.0128	
CLIP END	83236	1	STL	.0017	.0200			.0200	.0287	.0326	
CLIP END - OUTER	83249	1	STL	.0008	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.8946			.8946	1.2855	1.4603	30.0

VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - PASSENGER ASSIST HANDLE	83260	1	ASSY	.3380	1.6956			1.6956	2.4366	2.7680	96.5
HANDLE	83261	1	SPST	.0876	.1523			.1523	.2189	.2487	20.0
COVER	83262	1	VNL	.0594	.0690			.0690	.0992	.1127	10.0
REINFORCEMENT	83263	1	RUB	.1166	.1781			.1781	.2559	.2907	15.0
PADDING	83265	1	RUB	.0132	.0903			.0903	.1298	.1475	15.0
RETAINER	83266	2	PVC	.0258	.5062			.5062	.7274	.8264	27.0
GUIDE PIN	83267	2	CRS	.0184	.0208			.0208	.0298	.0338	2.0
SCREW	83268	2	STL	.0154	.0040			.0040	.0058	.0066	
PUSH NUT	83269	2	STL	.0016	.0700			.0700	.1006	.1142	
ASSEMBLY COST					.6049			.6049	.8692	.9874	7.5

1983
CHRYSLER NEW YORKER 5th AVE. BOARD 2



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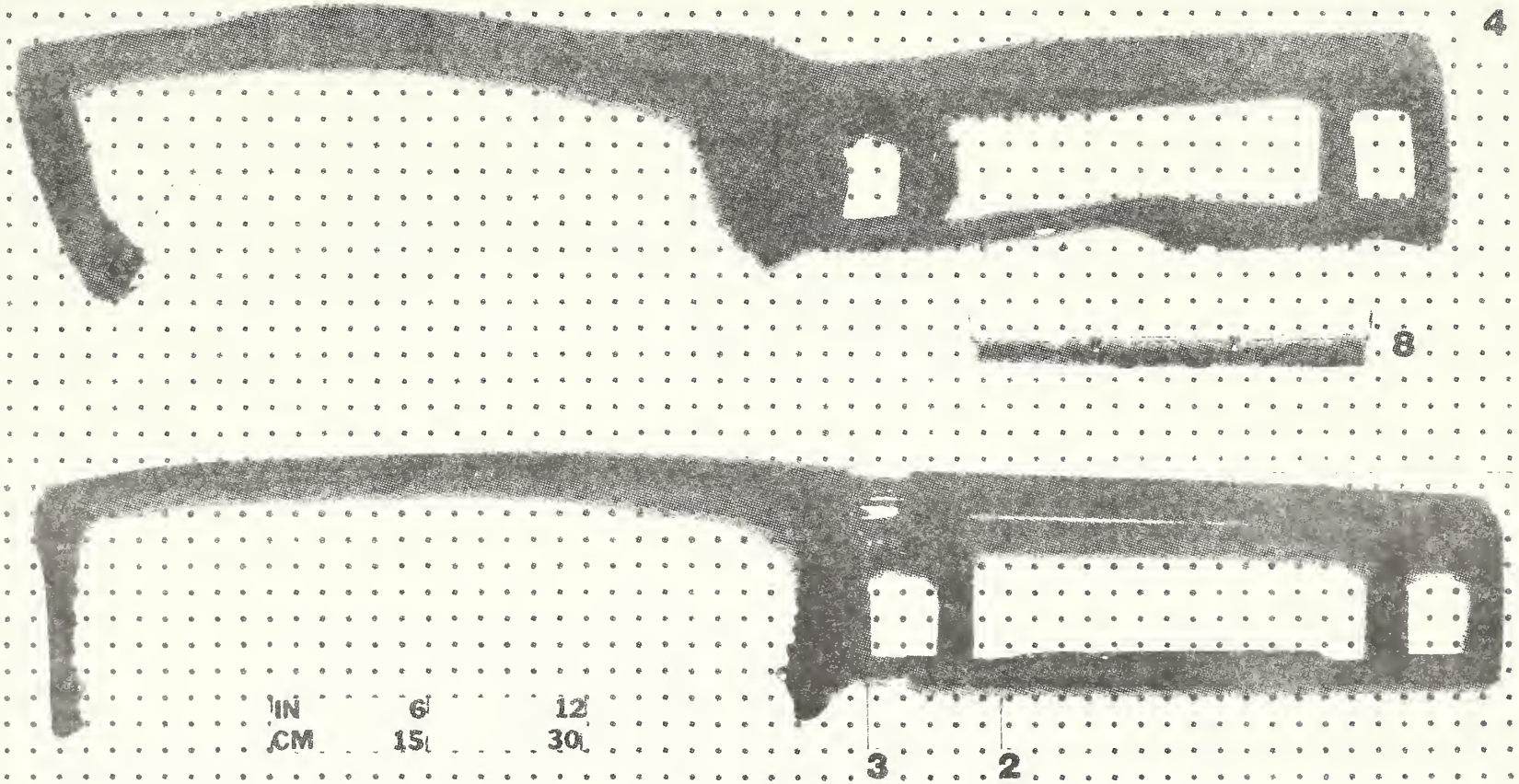
VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	5.9603	8.6417			8.6417	12.4180	14.1067	426.0
FOAM PAD - INSTRUMENT PANEL	83302	1	PLYF	.5842	.8050			.8050	1.1568	1.3141	
REINFORCEMENT - INSTRUMENT PANEL	83303	1	CRS	3.3434	4.5769			4.5769	6.5770	7.4715	250.0
COVER - INSTRUMENT PANEL PAD	83304	1	PLAS	1.3961	1.7978			1.7978	2.5834	2.9347	27.0
NUT - M4	83307	4	AL	.0076	.0200			.0200	.0288	.0328	
ASM - REINFORCEMENT PANEL	83310	1	ASSY	.5670	.3893			.3893	.5594	.6355	85.0
STUD - M4 X 5	83316	4	STL	.0620	.1320			.1320	.1896	.2152	
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - REINFORCEMENT PANEL	83310	1	ASSY	.5670	.3893			.3893	.5594	.6355	85.0
INSERT - REINF. SUPPORT	83308	1	CRS	.5670	.3551			.3551	.5103	.5797	75.0
ASSEMBLY COST					.0342			.0342	.0491	.0558	10.0

1983
CHRYSLER NEW YORKER 5th AVE. BOARD 3



A-101

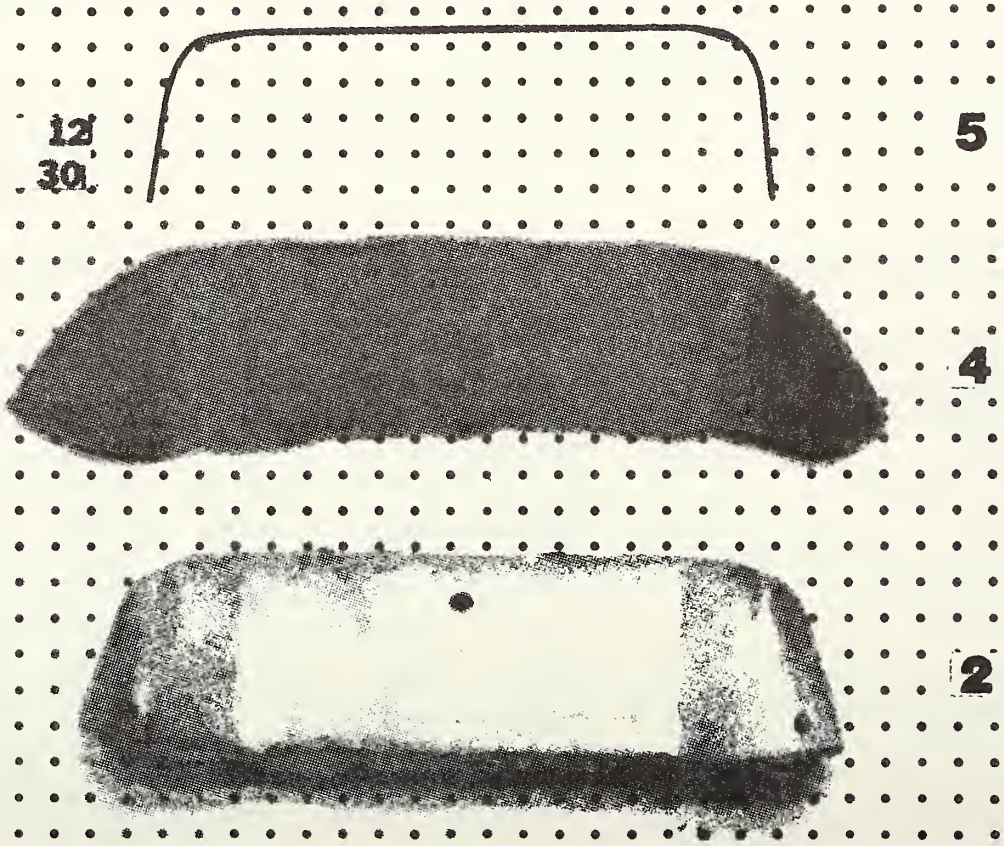
VEHICLE- 07- CHRYSLER FIFTH AVENUE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.9204	.9830			.9830	1.4126	1.6047	
MAIN PAD	83402	1	FMRB	.6006	.5095			.5095	.7322	.8318	
PAD CROWN SUPPORT	83404	1	FMRB	.2182	.4444			.4444	.6386	.7254	
BORDER WIRE	83405	1	STWR	.1016	.0291			.0291	.0418	.0475	
ASSEMBLY COST											

VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
CHRYSLER E-CLASS		1		11.4380	26.9162	.5356	.5891	28.0409	40.2935	45.7729	1433.5
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.3003	.2977	.5356	.5891	1.4224	2.0439	2.3219	322.5
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.3794	2.3174			2.3174	3.3302	3.7832	287.0
ASM - DOOR HANDLE	83151	2	ASSY	.3300	1.5124			1.5124	2.1732	2.4684	149.0
ASM - ARM REST	83201	2	ASSY	.8128	1.4908			1.4908	2.1422	2.4334	115.0
ASM - SUNVISOR	83220	2	ASSY	1.7834	4.2462			4.2462	6.1008	6.9304	199.0
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	5.7813	14.6843			14.6843	21.1012	23.9710	361.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	2.0508	2.3674			2.3674	3.4020	3.8646	
ASSEMBLY COST											

1983
CHRYSLER NEW YORKER 5th AVE. BOARD 4



A-104

VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.3003	.2977	.5356	.5891	1.4224	2.0439	2.3219	322.5
HOUSING - GLOVE BOX LOCK	83102	1	ZN	.1063	.0609	.0254	.0550	.1413	.2030	.2306	70.0
RELEASE KNOB	83103	1	ZN	.0735	.0300	.1261	.1672	.3233	.4646	.5278	67.0
SPRING - RELEASE BUTTON	83104	1	WIRE	.0020	.0150			.0150	.0216	.0245	
SPRING - RELEASE TRIGGER	83106	1	WIRE	.0008	.0170			.0170	.0244	.0277	
KNOB - LOCK HOUSING	83109	1	ZN	.0427	.0241	.0116	.0265	.0622	.0894	.1016	60.0
LATCH - GLOVE BOX	83112	1	HRS	.0077	.0071	.0047	.0166	.0284	.0408	.0463	25.0
TUMBLER - GLOVE BOX LOCK	83113	4	BRS	.0040	.0244	.0068	.0232	.0544	.0780	.0888	50.0
TUMBLER SPRING	83114	4	WIRE	.0004	.0080			.0080	.0116	.0132	
STRIKER - GLOVE BOX LOCK	83115	1	HRS	.0510	.0290	.0088	.0320	.0698	.1003	.1139	40.0
WASHER	83119	1	STL	.0019	.0050			.0050	.0072	.0082	
ROLL PIN	83119A	1	AL	.0010	.0010			.0010	.0014	.0016	
MOUNTING SCREW	83119B	2	STL	.0090	.0700			.0700	.1006	.1142	
ASSEMBLY COST					.0062	.3522	.2686	.6270	.9010	1.0235	10.5

VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.1897	1.1587			1.1587	1.6651	1.8916	287.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.1482	.8511			.8511	1.2230	1.3893	117.0
ASM - WINDOW REGULATOR KNOB	83122	1	ASSY	.0415	.2388			.2388	.3432	.3899	155.0
ASSEMBLY COST					.0688			.0688	.0989	.1124	15.0

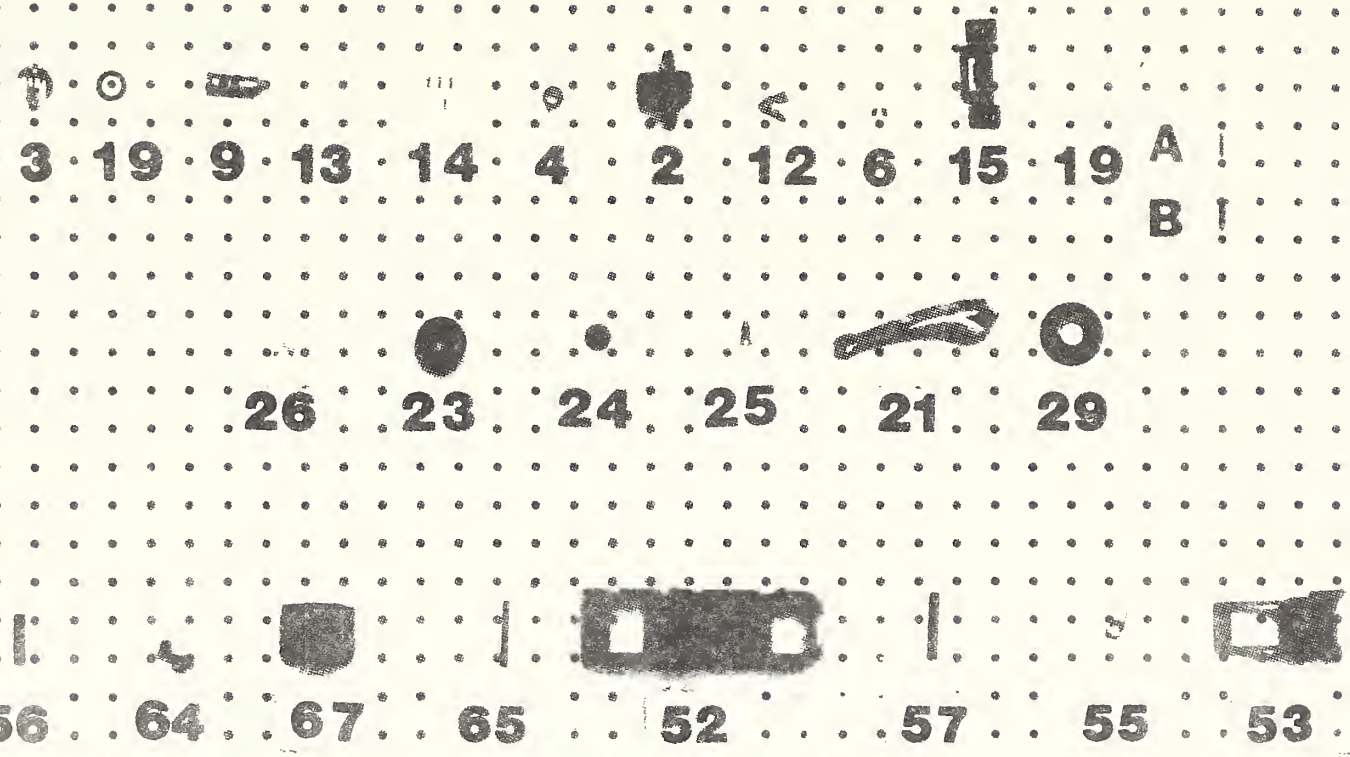
VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR KNOB	83122	2	ASSY	.0415	.2388			.2388	.3432	.3899	155.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0323	.0230			.0230	.0331	.0376	
GROMMET - WINDOW REG. KNOB	83124	1	PVC	.0022	.0067			.0067	.0096	.0109	25.0
SHAFT - WINDOW REG. KNOB	83125	1	CRS	.0061	.0095			.0095	.0137	.0156	10.0
CAP - WINDOW REG. KNOB	83126	1	AL	.0009	.0158			.0158	.0227	.0258	15.0
ASSEMBLY COST					.1838			.1838	.2641	.3000	105.0

VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.1650	.7562			.7562	1.0866	1.2342	149.0
HOUSING - DOOR HANDLE	83152	1	PLYP	.0772	.0851			.0851	.1223	.1389	10.0
HANDLE	83153	1	PLYP	.0426	.0753			.0753	.1082	.1229	20.0
RETURN SPRING - DOOR HANDLE	83155	1	STWR	.0059	.0881			.0881	.1266	.1438	2.0
RUBBER BUMPER	83156	1	RUB	.0005	.0374			.0374	.0537	.0610	15.0
RETAINING PIN - DOOR HANDLE	83157	1	PLYP	.0033	.0415			.0415	.0596	.0677	20.0
PAWL - DOOR HANDLE	83164	2	PLYP	.0034	.0810			.0810	.1164	.1322	30.0
PIN - LOCK - DOOR HANDLE	83165	1	PLYP	.0013	.0251			.0251	.0361	.0410	20.0
LOCK - DOOR HANDLE	83167	1	PLYP	.0308	.0442			.0442	.0635	.0721	20.0
ASSEMBLY COST					.2785			.2785	.4002	.4546	12.0

1983 E-CLASS CHRYSLER BOARD 1



A-109

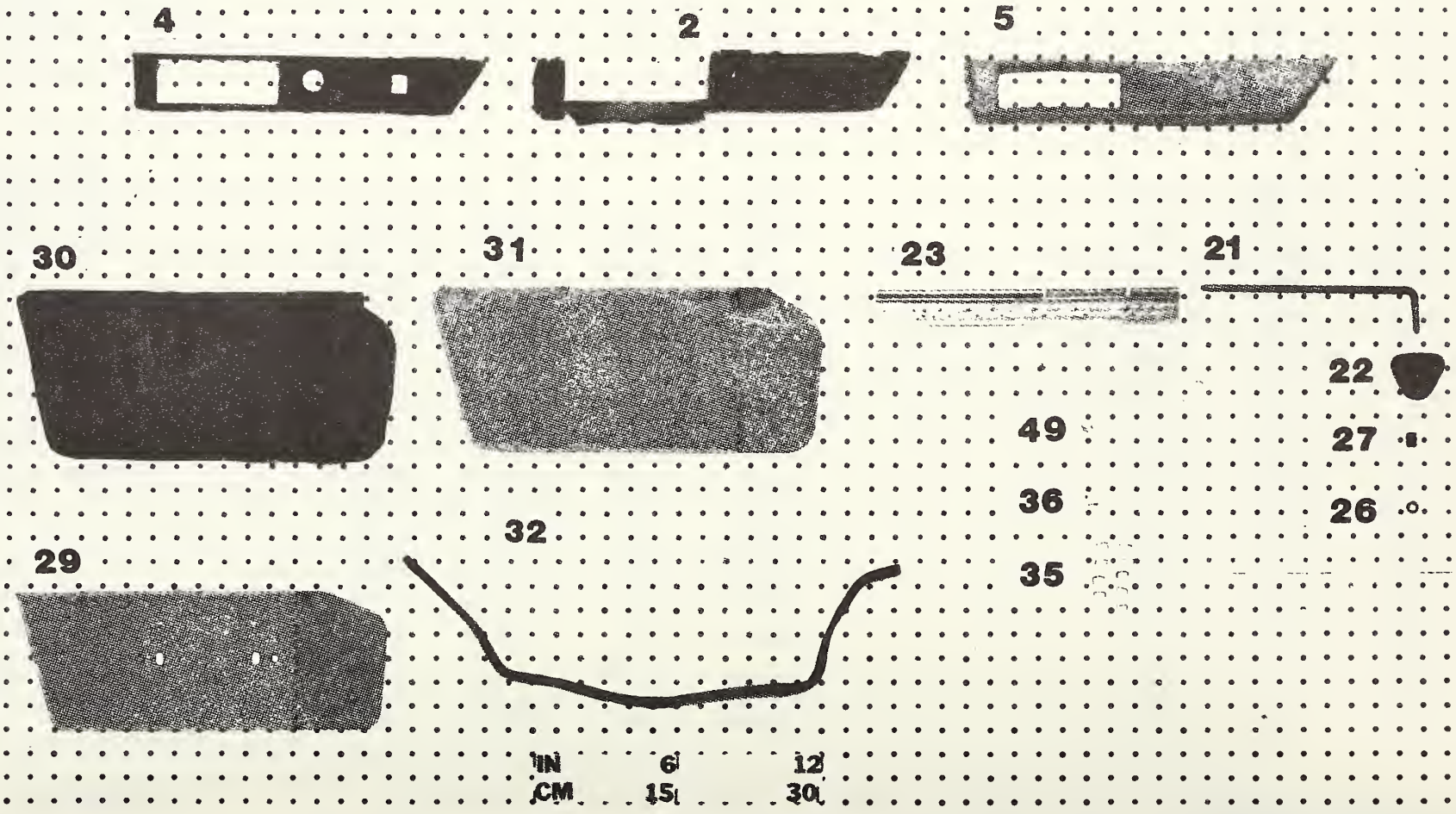
VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	.4064	.7454			.7454	1.0711	1.2167	115.0
FOAM PAD	83202	1	URE	.0776	.0703			.0703	.1010	.1147	
REINFORCEMENT - ARM REST	83204	1	PVC	.1205	.1772			.1772	.2546	.2892	50.0
COVER - ARM REST	83205	1	PVC	.2083	.3639			.3639	.5229	.5940	40.0
ASSEMBLY COST					.1340			.1340	.1926	.2188	25.0

VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	.8917	2.1231			2.1231	3.0504	3.4652	199.0
HINGE ROD - VISOR	83221	1	CRS	.1708	.3305			.3305	.4749	.5395	21.0
HINGE BRACKET - VISOR	83222	1	ZN	.1005	.1193			.1193	.1714	.1947	65.0
HINGE REINFORCEMENT - VISOR	83223	1	G/ST	.1708	.1241			.1241	.1783	.2025	20.0
WASHER	83226	1	STL	.0013	.0150			.0150	.0216	.0245	
SPRING	83227	1	STWR	.0057	.0450			.0450	.0647	.0735	
STIFFENER - SUNVISOR	83229	1	F/BD	.2319	.1070			.1070	.1538	.1747	15.0
COVER - SUNVISOR	83230	1	RBFB	.0393	.3460			.3460	.4972	.5648	12.0
PAD - FRICTION COATED - VISOR	83231	1	PAP	.1437	.0568			.0568	.0816	.0927	10.0
OUTER BEAD COVER - VISOR	83232	1	PLAS	.0191	.0358			.0358	.0514	.0584	20.0
STAPLE	83235	9	STL	.0054	.0090			.0090	.0126	.0144	
CLIP END	83236	1	SSTL	.0018	.0200			.0200	.0287	.0326	
CLIP END - OUTER	83249	1	SSTL	.0014	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.8946			.8946	1.2855	1.4603	36.0

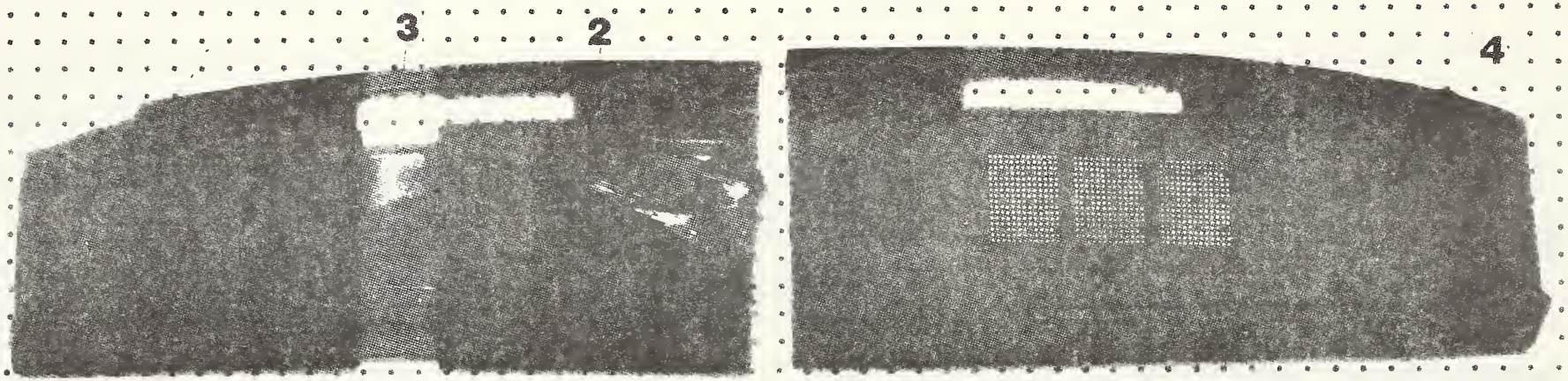
1983 CHRYSLER E-CLASS BOARD 2



VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	5.7813	14.6843			14.6843	21.1012	23.9710	361.0
FOAM - INST. PNL. PAD	83302	1	PLYF	1.8737	2.5822			2.5822	3.7106	4.2152	
REINFORCEMENT - INST. PNL. PAD	83303	1	ABS	2.2673	8.6557			8.6557	12.4382	14.1298	270.0
COVER - INST. PNL. PAD	83304	1	PLAS	1.5845	2.3637			2.3637	3.3966	3.8585	27.0
U-NUT	83307	6	STL	.0558	.1620			.1620	.2328	.2646	
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

1983
CHRYSLER E-CLASS BOARD 3



VEHICLE- 08- CHRYSLER E-CLASS

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.0254	1.1837			1.1837	1.7010	1.9323	
MAIN PAD	83402	1	FMRB	.6877	.5835			.5835	.8385	.9525	
PAD CROWN SUPPORT	83404	1	FMRB	.2306	.5696			.5696	.8185	.9298	
BORDER WIRE	83405	1	STWR	.1071	.0306			.0306	.0440	.0500	
ASSEMBLY COST											

VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST: MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
CHRYSLER/PLYMOUTH RELIANT		1		13.4072	30.7910	.5356	.5891	31.9157	45.8617	52.0983	1547.5
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.3003	.2977	.5356	.5891	1.4224	2.0439	2.3219	322.5
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.3794	2.3174			2.3174	3.3302	3.7832	287.0
ASM - DOOR HANDLE	83151	2	ASSY	.6508	3.1322			3.1322	4.5008	5.1126	246.0
ASM - ARM REST	83201	2	ASSY	2.3658	3.7322			3.7322	5.3634	6.0926	132.0
ASM - SUNVISOR	83220	2	ASSY	1.8788	4.2598			4.2598	6.1202	6.9524	199.0
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	5.7813	14.6843			14.6843	21.1012	23.9710	361.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	2.0508	2.3674			2.3674	3.4020	3.8646	
ASSEMBLY COST											

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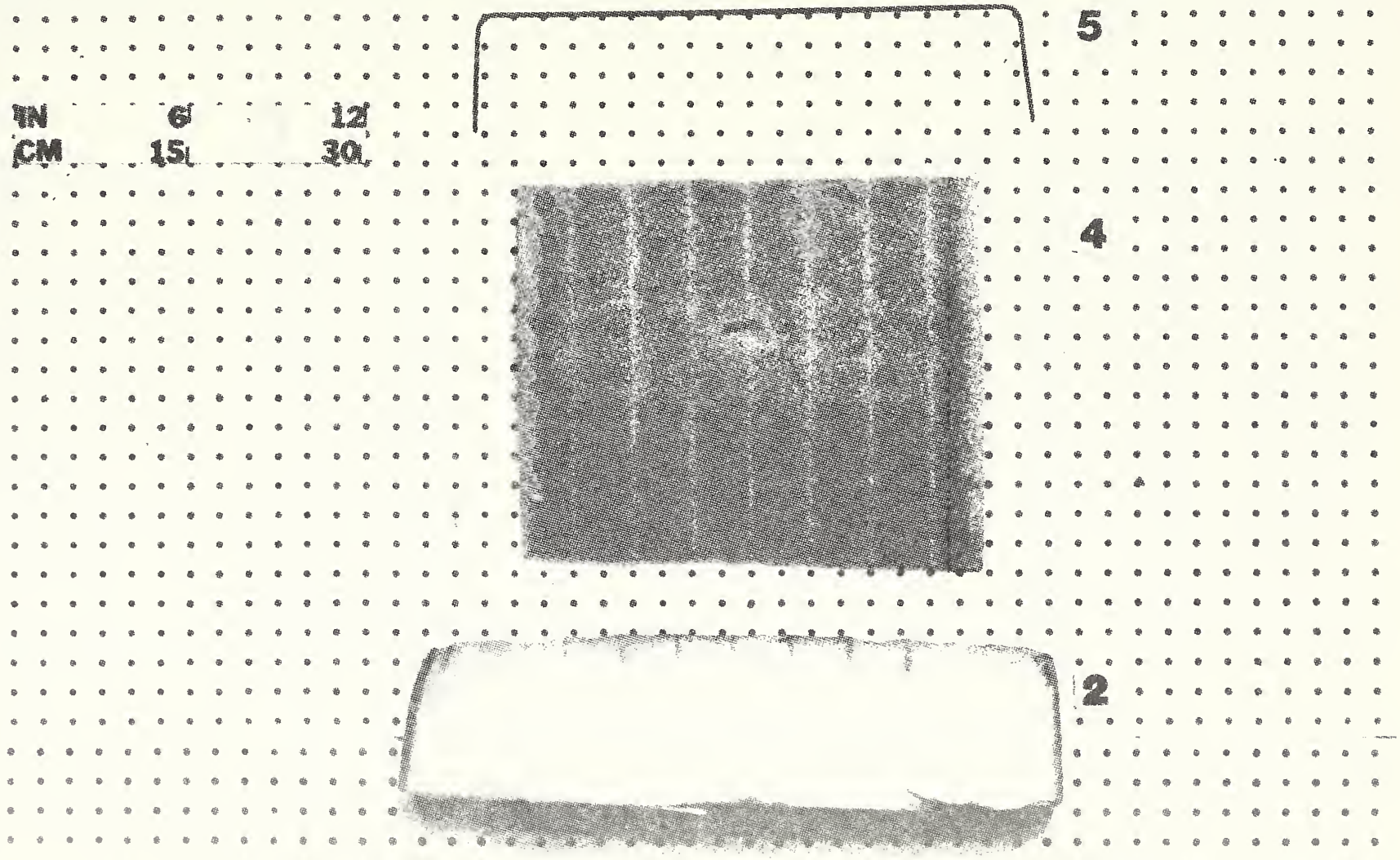
1983 CHRYSLER E-CLASS BOARD 4



A-117

VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.3003	.2977	.5356	.5891	1.4224	2.0439	2.3219	322.5
HOUSING - GLOVE BOX LOCK	83102	1	ZN	.1063	.0609	.0254	.0550	.1413	.2030	.2306	70.0
RELEASE KNOB	83103	1	ZN	.0735	.0300	.1261	.1672	.3233	.4646	.5278	67.0
SPRING - RELEASE BUTTON	83104	1	WIRE	.0020	.0150			.0150	.0216	.0245	
SPRING - RELEASE TRIGGER	83106	1	WIRE	.0008	.0170			.0170	.0244	.0277	
KNOB - LOCK HOUSING	83109	1	ZN	.0427	.0241	.0116	.0265	.0622	.0894	.1016	60.0
LATCH - GLOVE BOX	83112	1	HRS	.0077	.0071	.0047	.0166	.0284	.0408	.0463	25.0
TUMBLER - GLOVE BOX LOCK	83113	4	BRS	.0040	.0244	.0068	.0232	.0544	.0780	.0888	50.0
TUMBLER SPRING	83114	4	WIRE	.0004	.0080			.0080	.0116	.0132	
STRIKER - GLOVE BOX LOCK	83115	1	HRS	.0510	.0290	.0088	.0320	.0698	.1003	.1139	40.0
WASHER	83119	1	STL	.0019	.0050			.0050	.0072	.0082	
ROLL PIN	83119A	1	AL	.0010	.0010			.0010	.0014	.0016	
MOUNTING SCREW	83119B	2	STL	.0090	.0700			.0700	.1006	.1142	
ASSEMBLY COST					.0062	.3522	.2686	.6270	.9010	1.0235	10.5

VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.1897	1.1587			1.1587	1.6651	1.8916	287.0
HANDLE - WINDOW REGULATOR	83121	1	ZN	.1482	.8511			.8511	1.2230	1.3893	117.0
ASM - WINDOW REGULATOR KNOB	83122	1	ASSY	.0415	.2388			.2388	.3432	.3899	155.0
ASSEMBLY COST					.0688			.0688	.0989	.1124	15.0

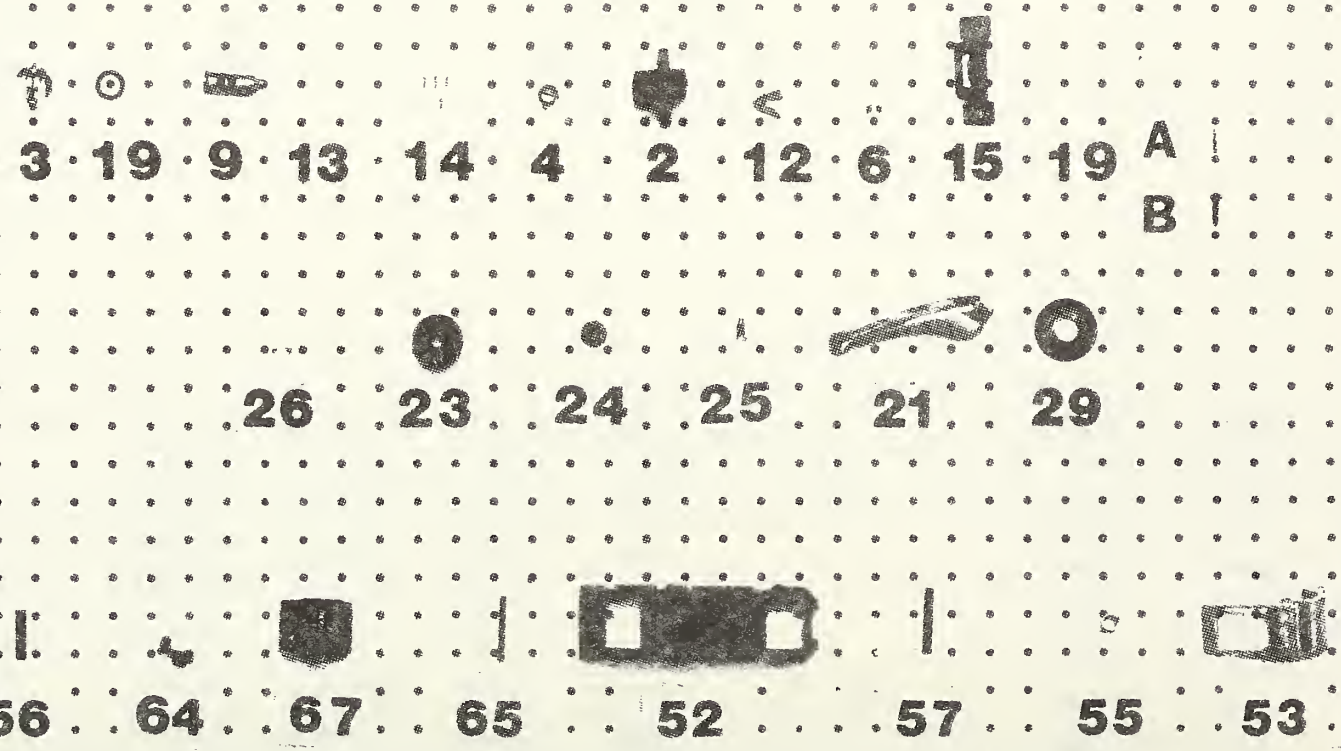
VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR KNOB	83122	2	ASSY	.0415	.2388			.2388	.3432	.3899	155.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0323	.0230			.0230	.0331	.0376	
GROMMET - WINDOW REG. KNOB	83124	1	PVC	.0022	.0067			.0067	.0096	.0109	25.0
SHAFT - WINDOW REG. KNOB	83125	1	CRS	.0061	.0095			.0095	.0137	.0156	10.0
CAP - WINDOW REG. KNOB	83126	1	AL	.0009	.0158			.0158	.0227	.0258	15.0
ASSEMBLY COST					.1838			.1838	.2641	.3000	105.0

VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.3254	1.5661			1.5661	2.2504	2.5563	246.0
HOUSING - DOOR HANDLE	83152	1	PLYP	.0772	.0851			.0851	.1223	.1389	10.0
HANDLE	83153	1	ZN	.2030	.8852			.8852	1.2720	1.4450	117.0
RETURN SPRING - DOOR HANDLE	83155	1	STWR	.0059	.0881			.0881	.1266	.1438	2.0
RUBBER BUMPER	83156	1	RUB	.0005	.0374			.0374	.0537	.0610	15.0
RETAINING PIN - DOOR HANDLE	83157	1	PLYP	.0033	.0415			.0415	.0596	.0677	20.0
PAWL - DOOR HANDLE	83164	2	PLYP	.0034	.0810			.0810	.1164	.1322	30.0
PIN - LOCK - DOOR HANDLE	83165	1	PLYP	.0013	.0251			.0251	.0361	.0410	20.0
LOCK - DOOR HANDLE	83167	1	PLYP	.0308	.0442			.0442	.0635	.0721	20.0
ASSEMBLY COST					.2785			.2785	.4002	.4546	12.0

1983 PLYMOUTH RELIANT BOARD 1



A-122

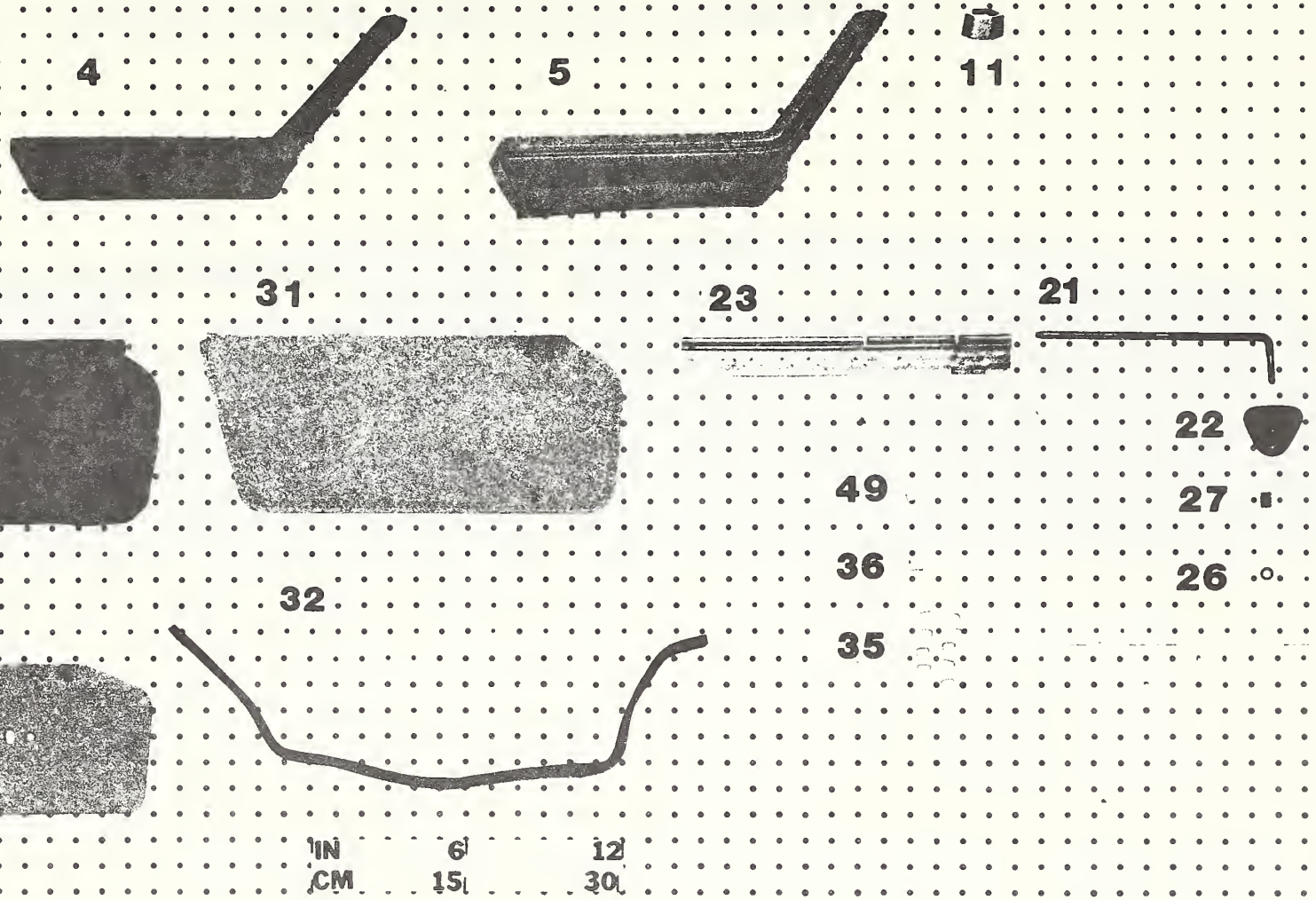
VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	1.1829	1.8661			1.8661	2.6817	3.0463	132.0
REINFORCEMENT - ARM REST	83204	1	PVC	.5296	.6349			.6349	.9124	1.0365	30.0
COVER - ARM REST	83205	1	PVC	.6441	.6935			.6935	.9966	1.1321	40.0
TRIM PLATE - ARM REST	83211	1	ZN	.0092	.4858			.4858	.6981	.7930	62.0
ASSEMBLY COST					.0519			.0519	.0746	.0847	

VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	.9394	2.1299			2.1299	3.0601	3.4762	199.0
HINGE ROD - VISOR	83221	1	CRS	.1708	.3305			.3305	.4749	.5395	21.0
HINGE BRACKET - VISOR	83222	1	ZN	.1005	.1175			.1175	.1688	.1918	65.0
HINGE REINFORCEMENT - VISOR	83223	1	G/ST	.1708	.1241			.1241	.1783	.2025	20.0
WASHER	83226	1	STL	.0013	.0150			.0150	.0216	.0245	
SPRING	83227	1	STWR	.0057	.0450			.0450	.0647	.0735	
STIFFENER - SUNVISOR	83229	1	F/BD	.2772	.1128			.1128	.1621	.1841	15.0
COVER - SUNVISOR	83230	1	RBFB	.0393	.3460			.3460	.4972	.5648	12.0
PAD - FRICTION COATED - VISOR	83231	1	PAP	.1421	.0564			.0564	.0810	.0920	10.0
OUTER BEAD COVER - VISOR	83232	1	PLAS	.0231	.0390			.0390	.0560	.0636	20.0
STAPLE	83235	9	STL	.0054	.0090			.0090	.0126	.0144	
CLIP END	83236	1	SSTL	.0018	.0200			.0200	.0287	.0326	
CLIP END - OUTER	83249	1	SSTL	.0014	.0200			.0200	.0287	.0326	
ASSEMBLY COST					.8946			.8946	1.2855	1.4603	36.0

1983 PLYMOUTH RELIANT BOARD 2

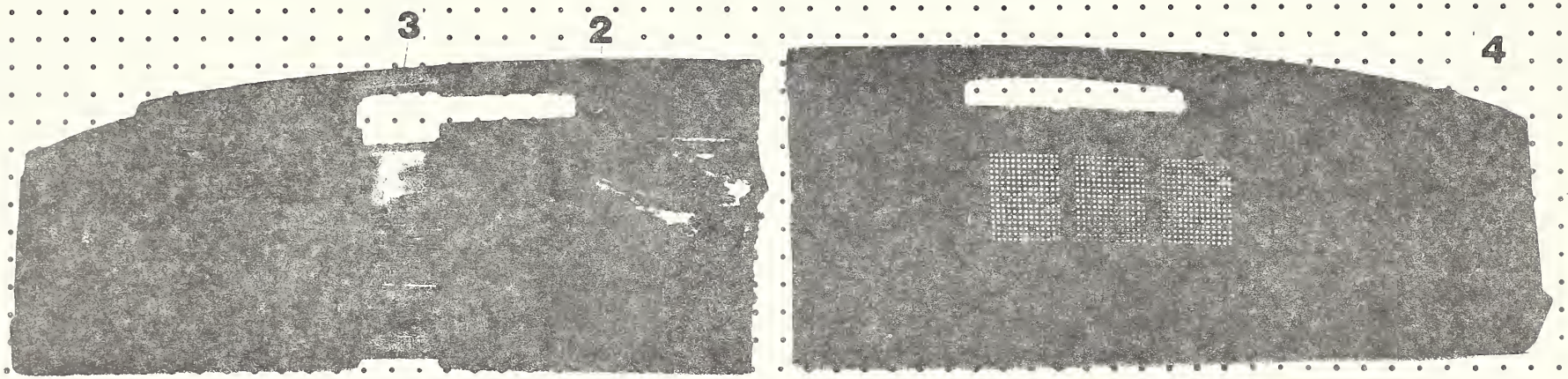


A-125

VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	5.7813	14.6843			14.6843	21.1012	23.9710	361.0
FOAM - INST. PNL. PAD	83302	1	PLYF	1.8737	2.5822			2.5822	3.7106	4.2152	
REINFORCEMENT - INST. PNL. PAD	83303	1	ABS	2.2673	8.6557			8.6557	12.4382	14.1298	270.0
COVER - INST. PNL. PAD	83304	1	PLAS	1.5845	2.3637			2.3637	3.3966	3.8585	27.0
U-NUT	83307	6	STL	.0558	.1620			.1620	.2328	.2646	
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

1983
CHRYSLER RELIANT BOARD 3



A-127

VEHICLE- 09- CHRYSLER/PLYMOUTH RELIANT

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	1.0254	1.1837			1.1837	1.7010	1.9323	
MAIN PAD	83402	1	FMRB	.6877	.5835			.5835	.8385	.9525	
PAD CROWN SUPPORT	83404	1	FMRB	.2306	.5696			.5696	.8185	.9298	
BORDER WIRE	83405	1	STWR	.1071	.0306			.0306	.0440	.0500	
ASSEMBLY COST											

VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
AMC/RENAULT ALLIANCE		1		10.6432	25.5666	.0118	.0140	25.5924	36.7763	41.7781	1147.0
LATCH - GLOVE COMPARTMENT	83101	1	ABS	.0085	.0094	.0118	.0140	.0352	.0506	.0575	28.0
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.2374	.6904			.6904	.9924	1.1274	97.0
ASM - DOOR HANDLE	83151	2	ASSY	.5164	2.3458			2.3458	3.3710	3.8296	138.0
ASM - ARM REST	83201	2	ASSY	3.0258	5.5674			5.5674	8.0002	9.0882	201.0
ASM - SUNVISORS (LEFT & RIGHT)	83220	1	ASSY	1.3274	2.9013			2.9013	4.1690	4.7361	322.0
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	4.7593	13.2665			13.2665	19.0639	21.6565	361.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.7684	.7858			.7858	1.1292	1.2828	
ASSEMBLY COST											

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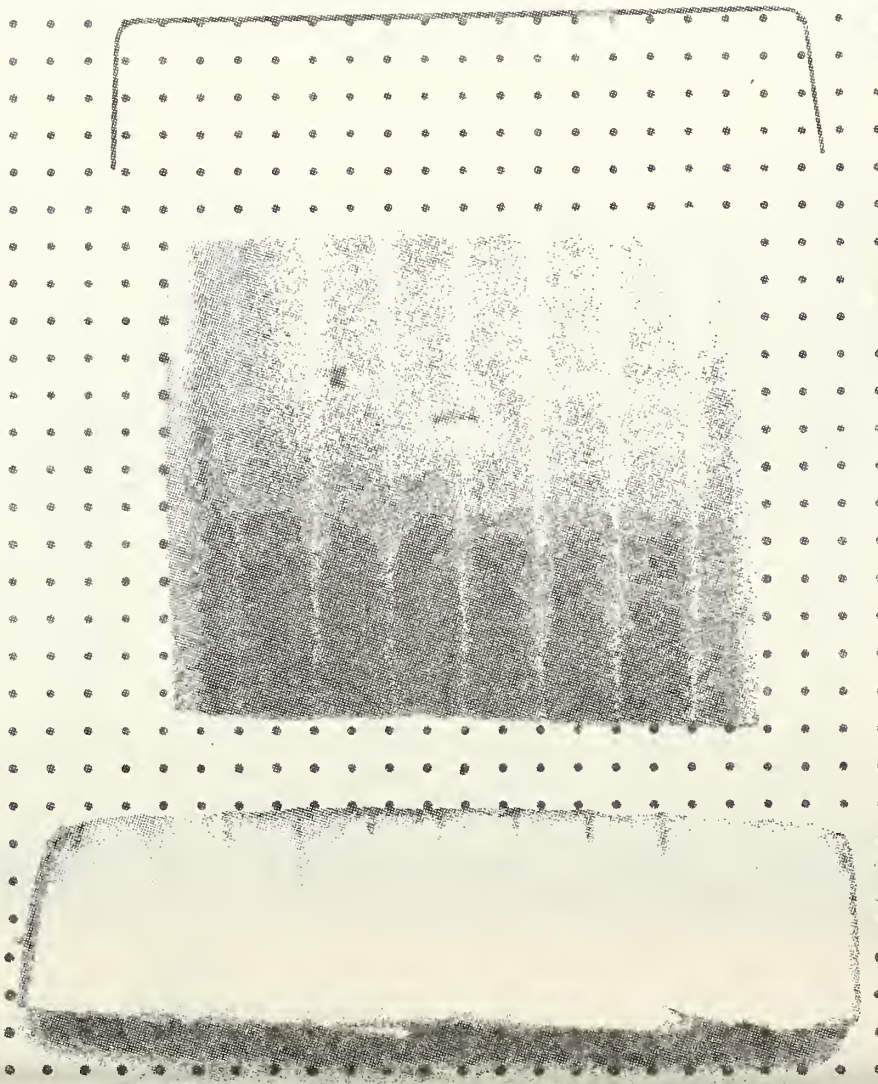
1983 CHRYSLER RELIANT BOARD 4



VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
LATCH - GLOVE COMPARTMENT	83101	1	ABS	.0085	.0094	.0118	.0140	.0352	.0506	.0575	28.0

VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.1187	.3452			.3452	.4962	.5637	97.0
HANDLE - WINDOW REGULATOR	83121	1	PVC	.0822	.0956			.0956	.1374	.1561	25.0
ASM - WINDOW REGULATOR KNOB	83122	1	ASSY	.0242	.0744			.0744	.1070	.1216	55.0
WASHER - SPRING	83127	1	STL	.0055	.0500			.0500	.0719	.0817	
SPACER - WINDOW REGULATOR	83128	1	PVC	.0068	.0247			.0247	.0355	.0403	15.0
ASSEMBLY COST					.1005			.1005	.1444	.1640	2.0

VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR KNOB	83122	2	ASSY	.0242	.0744			.0744	.1070	.1216	55.0
PLASTIC (MAT'L. ONLY)	83122A	1	PLAS	.0162	.0100			.0100	.0144	.0164	
SHAFT - WINDOW REG. KNOB	83125	1	PLAS	.0080	.0182			.0182	.0262	.0298	25.0
ASSEMBLY COST					.0462			.0462	.0664	.0754	30.0

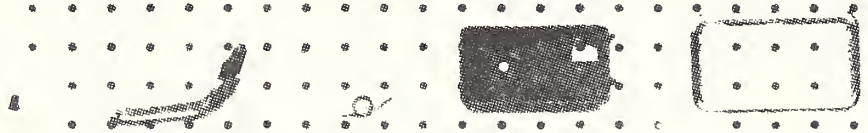
VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.2582	1.1729			1.1729	1.6855	1.9148	138.0
HOUSING - DOOR HANDLE	83152	1	ABS	.0539	.0894			.0894	.1285	.1460	20.0
HANDLE - DOOR	83153	1	ZN	.1584	.6450			.6450	.9269	1.0530	79.0
TRIM RING - HANDLE HOUSING	83154	1	ABS	.0396	.3141			.3141	.4514	.5128	29.0
RETURN SPRING - DOOR HANDLE	83155	1	STWR	.0059	.0644			.0644	.0925	.1051	10.0
SPACER - PLASTIC	83159	1	NY	.0004	.0020			.0020	.0029	.0033	
ASSEMBLY COST					.0580			.0580	.0833	.0946	

1983 AMC ALLIANCE BOARD 1

1

27 25 22 21 28



59 53 55 52 54

IN 6 12
CM 15 30

VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	1.5129	2.7837			2.7837	4.0001	4.5441	201.0
PAD - FOAM	83202	1	PLYF	.0570	.0568			.0568	.0816	.0927	
SUPPORT - FOAM	83203	1	PLAS	.0581	.1849			.1849	.2657	.3018	35.0
REINFORCEMENT - ARM REST	83204	1	ABS	.4737	.6921			.6921	.9945	1.1298	35.0
COVER - ARM REST	83205	1	PVC	.7272	.5768			.5768	.8289	.9416	
TRIM PLATE	83211	1	PLAS	.1718	.5456			.5456	.7840	.8906	30.0
STUD - MOUNTING	83212	1	CRS	.0251	.2428			.2428	.3489	.3964	12.0
ASSEMBLY COST					.4847			.4847	.6965	.7912	89.0

VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISORS (LEFT & RIGHT)	83220	1	ASSY	1.3274	2.9013			2.9013	4.1690	4.7361	322.0
ASM - LEFT SUNVISOR	83220L	1	ASSY	.6570	1.0579			1.0579	1.5201	1.7269	146.5
ASM - RIGHT SUNVISOR	83220R	1	ASSY	.6570	1.0579			1.0579	1.5201	1.7269	146.5
STOWING BRACKET - VISOR	83234	1	PLYP	.0134	.0285			.0285	.0410	.0466	
ASSEMBLY COST					.7570			.7570	1.0878	1.2357	29.0

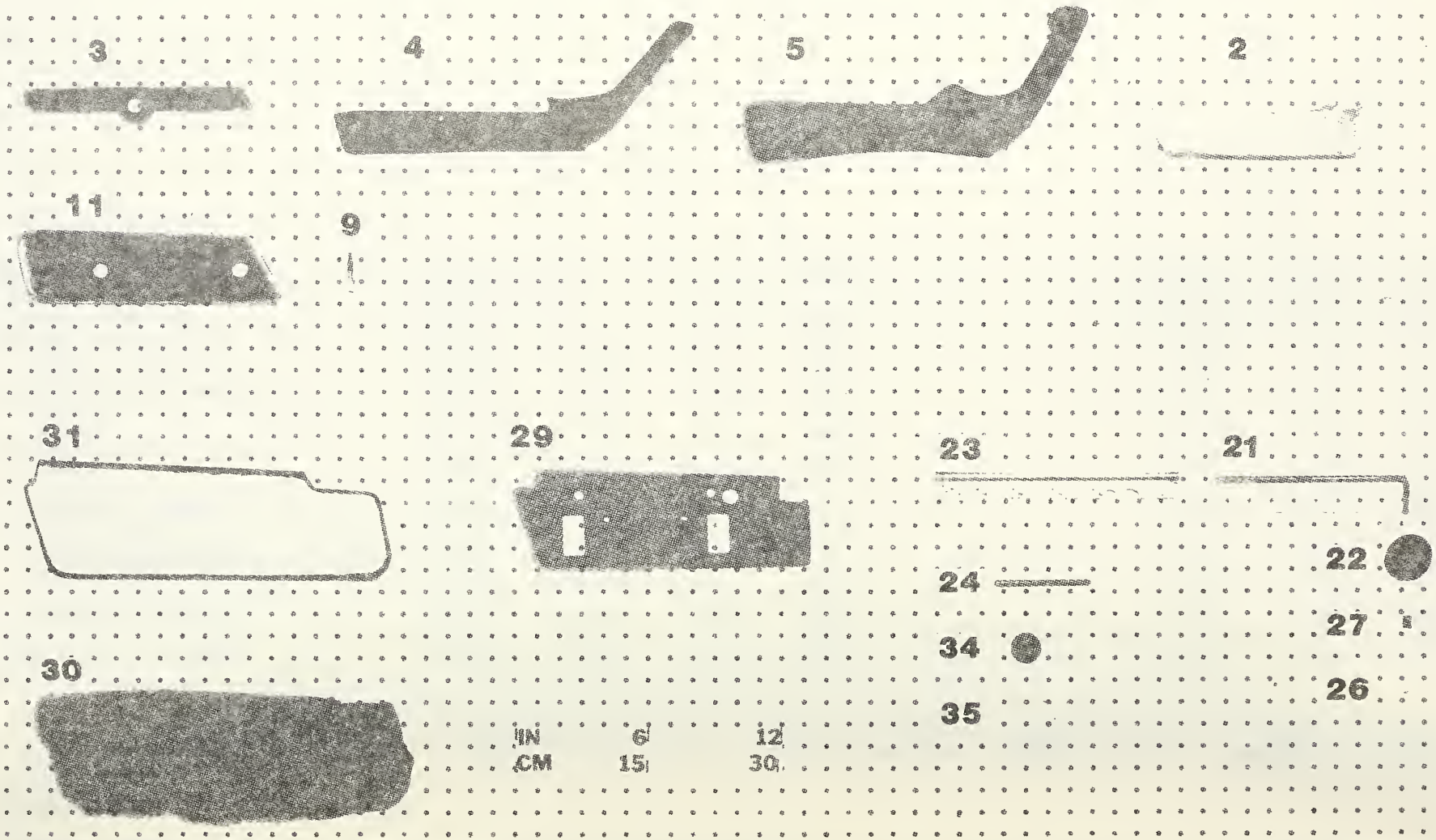
VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - LEFT SUNVISOR	83220L	1	ASSY	.6570	1.0579			1.0579	1.5201	1.7269	146.5
HINGE ROD - VISOR	83221	1	CRS	.1705	.3305			.3305	.4749	.5395	21.0
HINGE BRACKET - VISOR	83222	1	PLYP	.0119	.0435			.0435	.0625	.0710	40.0
HINGE REINFORCEMENT - SUNVISOR	83223	1	G/ST	.1159	.1007			.1007	.1447	.1644	20.0
ROD END - EXTENSION	83224	1	ABS	.0113	.0329			.0329	.0473	.0537	30.0
WASHER	83226	1	STL	.0012	.0150			.0150	.0216	.0245	
SPRING	83227	1	STWR	.0057	.0450			.0450	.0647	.0735	
STIFFENER - SUNVISOR	83229	1	F/BD	.1355	.0791			.0791	.1137	.1292	15.0
COVER - SUNVISOR	83230	1	RBFB	.0400	.0968			.0968	.1391	.1580	.5
PAD - SUNVISOR	83231	1	VAR	.1608	.3084			.3084	.4432	.5035	20.0
STAPLE	83235	6	STL	.0042	.0060			.0060	.0084	.0096	
ASSEMBLY COST											

VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - RIGHT SUNVISOR	83220R	1	ASSY	.6570	1.0579			1.0579	1.5201	1.7269	146.5
HINGE ROD - VISOR	83221	1	CRS	.1705	.3305			.3305	.4749	.5395	21.0
HINGE BRACKET - VISOR	83222	1	PLYP	.0119	.0435			.0435	.0625	.0710	40.0
HINGE REINFORCEMENT - SUNVISOR	83223	1	G/ST	.1159	.1007			.1007	.1447	.1644	20.0
ROD END - EXTENSION	83224	1	ABS	.0113	.0329			.0329	.0473	.0537	30.0
WASHER	83226	1	STL	.0012	.0150			.0150	.0216	.0245	
SPRING	83227	1	STWR	.0057	.0450			.0450	.0647	.0735	
STIFFENER - SUNVISOR	83229	1	F/BD	.1355	.0791			.0791	.1137	.1292	15.0
COVER - SUNVISOR	83230	1	RBFB	.0400	.0968			.0968	.1391	.1580	.5
PAD - SUNVISOR	83231	1	VAR	.1608	.3084			.3084	.4432	.5035	20.0
STAPLE	83235	6	STL	.0042	.0060			.0060	.0084	.0096	
ASSEMBLY COST											

1983 AMC ALLIANCE BOARD 2

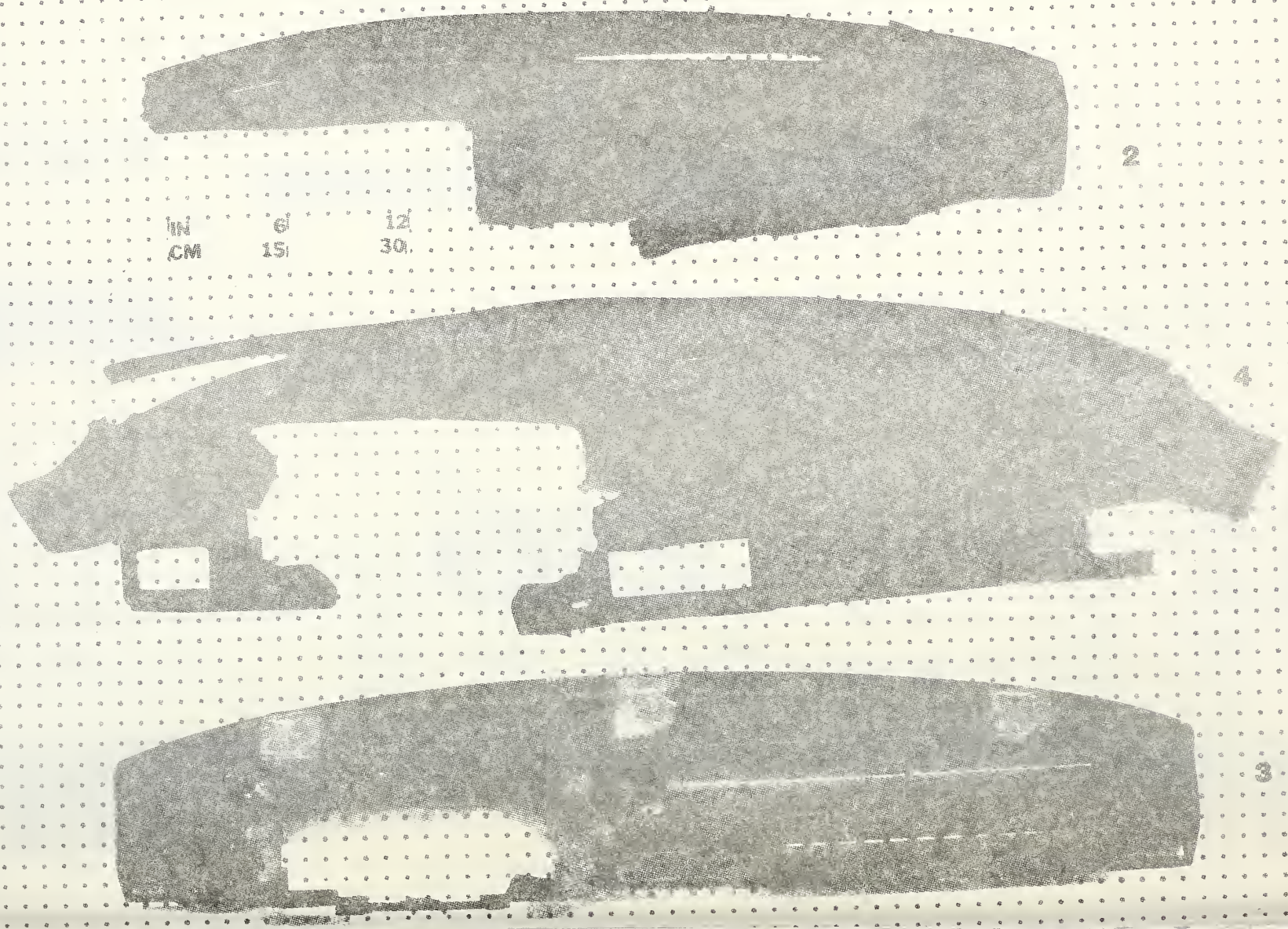


A-140

VEHICLE- 10-- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	4.7593	13.2665			13.2665	19.0639	21.6565	361.0
FOAM - INST. PNL. PAD	83302	1	PLYF	1.1609	1.5999			1.5999	2.2991	2.6118	
REINFORCEMENT - INST. PNL. PAD	83303	1	ABS	2.7808	9.3319			9.3319	13.4099	15.2336	270.0
COVER - INST. PNL. PAD	83304	1	PLAS	.8176	1.4140			1.4140	2.0319	2.3082	27.0
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

1983
AMC ALLIANCE BOARD 3



A-142

VEHICLE- 10- AMC/RENAULT ALLIANCE

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.3842	.3929			.3929	.5646	.6414	
MAIN PAD	83402	1	FMRB	.3798	.3222			.3222	.4630	.5260	
VELCRO PAD	83408	1	VAR	.0044	.0707			.0707	.1016	.1154	
ASSEMBLY COST											

VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
TOYOTA TERCEL		1		6.7136	11.8640	.1355	.1590	12.1585	17.4717	19.8485	1172.0
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.1152	.0952	.1355	.1590	.3897	.5601	.6364	180.0
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.1848	.7504			.7504	1.0784	1.2252	70.0
ASM - DOOR HANDLE	83151	2	ASSY	.4920	1.6880			1.6880	2.4256	2.7556	182.0
ASM - ARM REST	83201	2	ASSY	1.5102	1.6456			1.6456	2.3646	2.6862	105.5
ASM - SUNVISOR	83220	2	ASSY	1.0566	3.8852			3.8852	5.5832	6.3428	357.0
ASM - PASSENGER ASSIST HANDLE	83260	1	ASSY	.1782	.4488			.4488	.6449	.7327	115.5
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	2.8086	3.0386			3.0386	4.3663	4.9600	162.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.3680	.3122			.3122	.4486	.5096	
ASSEMBLY COST											

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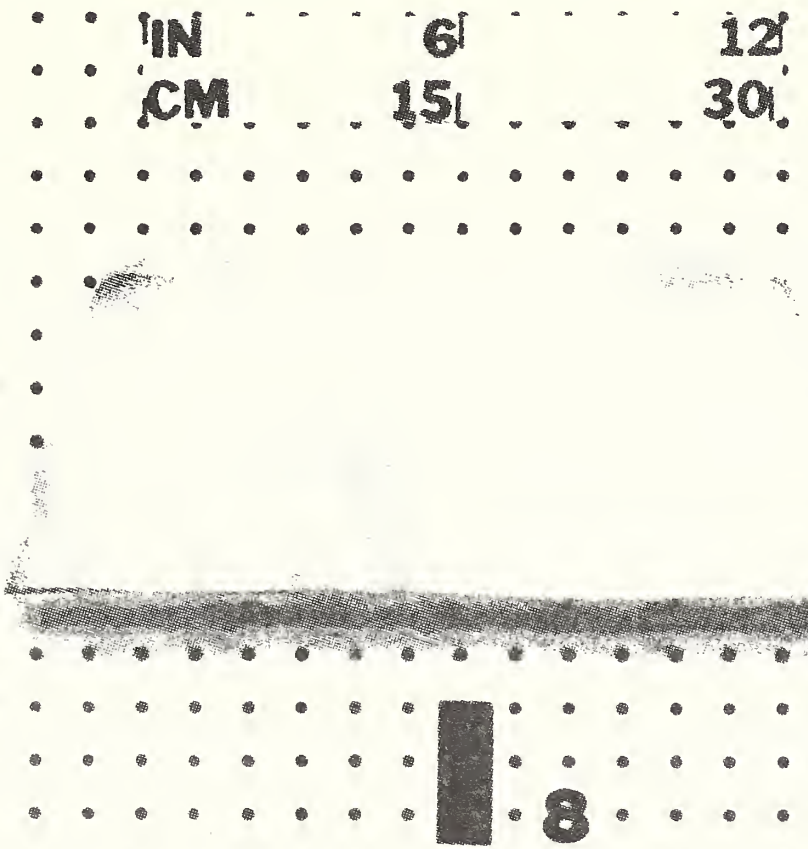
1983
AMC ALLIANCE BOARD 4



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VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.1152	.0952	.1355	.1590	.3897	.5601	.6364	180.0
HOUSING - GLOVE COMPARTMENT LATCH	83102	1	ZN	.0466	.0257	.0164	.0353	.0774	.1112	.1263	80.0
RELEASE BUTTON - GLOVE COMPT LATCH	83103	1	PLYP	.0092	.0053	.0128	.0159	.0340	.0489	.0556	20.0
SPRING - RELEASE BUTTON	83104	1	STL	.0017	.0100			.0100	.0144	.0164	
SPRING - RELEASE TRIGGER	83106	1	STL	.0012	.0150			.0150	.0216	.0245	
RETAINER PIN	83108	2	STL	.0316	.0200			.0200	.0288	.0328	
KNOB - GLOVE COMPT LATCH HSG	83109	1	ZN	.0176	.0099	.0116	.0265	.0480	.0690	.0784	60.0
LATCH - GLOVE COMPT.	83112	1	CRS	.0073	.0077	.0029	.0158	.0264	.0379	.0431	10.0
ASSEMBLY COST					.0016	.0918	.0655	.1589	.2283	.2593	10.0

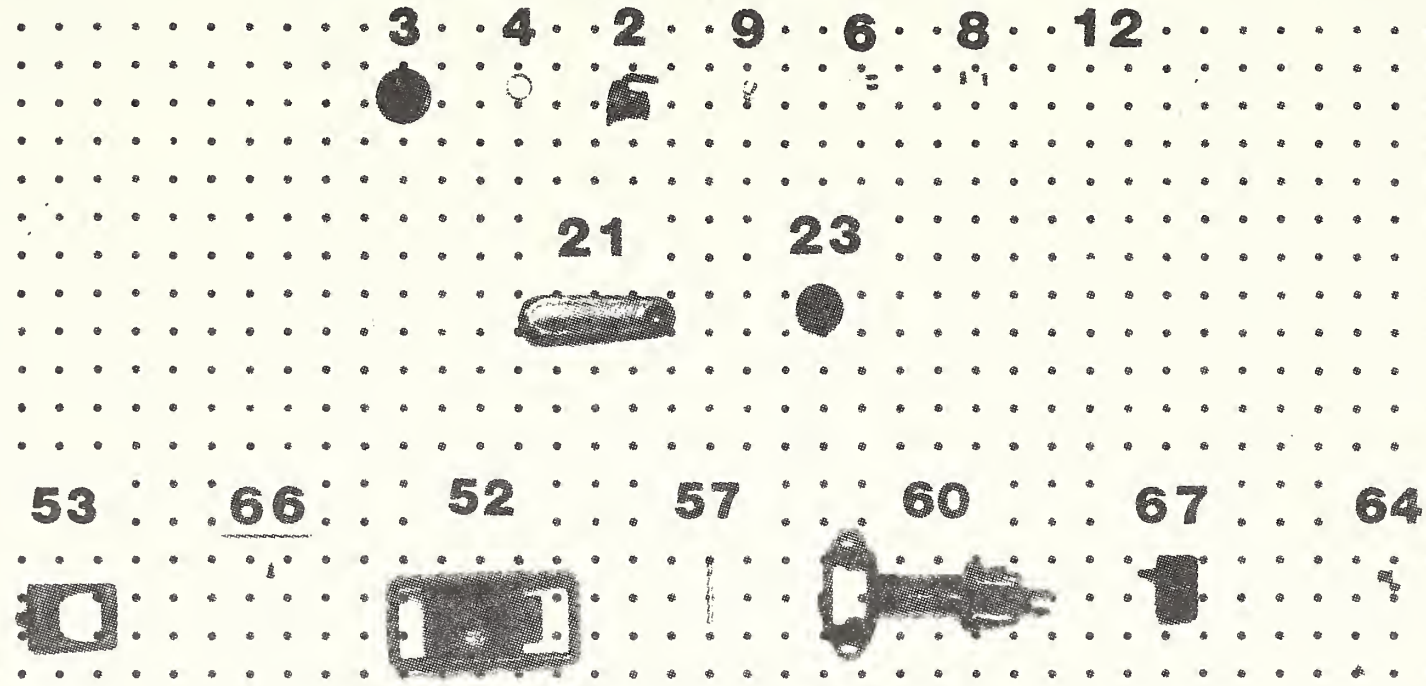
VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.0924	.3752			.3752	.5392	.6126	70.0
HANDLE - WINDOW REGULATOR	83121	1	PVC	.0682	.1810			.1810	.2601	.2955	35.0
KNOB - WINDOW REGULATOR	83123	1	PVC	.0242	.1258			.1258	.1808	.2054	30.0
ASSEMBLY COST					.0684			.0684	.0983	.1117	5.0

VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.2460	.8440			.8440	1.2128	1.3778	182.0
HOUSING - DOOR HANDLE	83152	1	PLAS	.0519	.1072			.1072	.1540	.1749	20.0
HANDLE	83153	1	PLAS	.0341	.0745			.0745	.1071	.1217	10.0
RETAINER PIN - DOOR HANDLE	83157	2	CRS	.0166	.0524			.0524	.0752	.0854	2.0
BRACKET - DOOR HANDLE	83160	1	HRS	.1240	.1995			.1995	.2867	.3257	100.0
PAWL - DOOR HANDLE	83164	1	PVC	.0011	.0146			.0146	.0210	.0239	30.0
SELF TAPPING SCREW	83166	1	STL	.0017	.0050			.0050	.0072	.0082	
LOCK - DOOR HANDLE	83167	1	PLAS	.0166	.0904			.0904	.1299	.1476	15.0
ASSEMBLY COST					.3004			.3004	.4317	.4904	5.0

1983 TOYOTA TERCEL BOARD 1



VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	.7551	.8228			.8228	1.1823	1.3431	105.5
SUPPORT (SECTION OF DOOR PANEL)	83203	1	PLYP	.2974	.2418			.2418	.3475	.3948	
REINFORCEMENT - ARM REST	83204	1	G/ST	.1393	.1486			.1486	.2135	.2425	25.0
COVER - ARM REST	83205	1	PVC	.2671	.2866			.2866	.4118	.4678	55.0
ASSIST HANDLE	83210	1	PLYP	.0513	.0599			.0599	.0861	.0978	25.0
ASSEMBLY COST					.0859			.0859	.1234	.1402	.5

VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM. - SUNVISOR	83220	2	ASSY	.5283	1.9426			1.9426	2.7916	3.1714	357.0
HINGE ROD - SUNVISOR	83221	1	CRS	.1005	.4325			.4325	.6215	.7060	25.0
HINGE BRACKET - SUNVISOR	83222	1	PLYP	.0178	.0452			.0452	.0650	.0738	40.0
HINGE REINFORCEMENT - SUNVISOR	83223	1	CRS	.0481	.0757			.0757	.1088	.1236	75.0
WASHER	83226	1	STL	.0013	.0010			.0010	.0014	.0016	
SPRING	83227	1	STWR	.0050	.0200			.0200	.0287	.0326	
CLIP - SUNVISOR	83228	1	CRS	.0071	.0147			.0147	.0211	.0240	15.0
STIFFENER - SUNVISOR	83229	1	WIRE	.1474	.0672			.0672	.0966	.1097	10.0
COVER - SUNVISOR	83230	2	VNL	.0958	.1920			.1920	.2760	.3136	15.0
PAD - SUNVISOR	83231	2	PLYF	.0528	.1346			.1346	.1934	.2198	15.0
STOWING BRACKET - SUNVISOR	83234	1	PLYP	.0165	.0440			.0440	.0632	.0718	40.0
ROLLER - SUNVISOR	83243	1	PLYP	.0019	.0259			.0259	.0372	.0423	30.0
HINGE REINF. COVER - SUNVISOR	83244	1	PLYP	.0292	.0503			.0503	.0723	.0821	50.0
SCREW	83245	1	STL	.0049	.0500			.0500	.0719	.0817	
ASSEMBLY COST					.7895			.7895	1.1345	1.2888	42.0

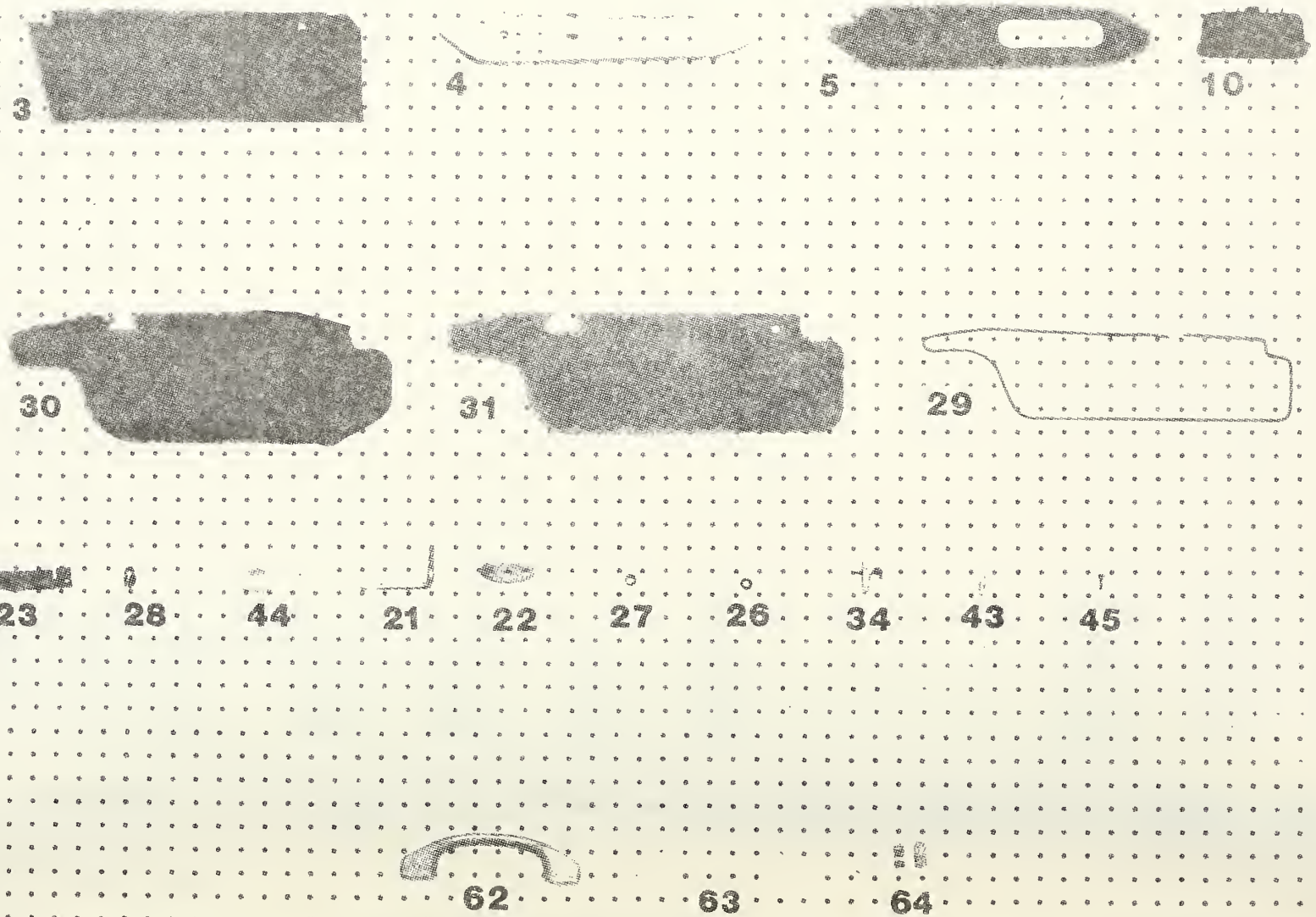
VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - PASSENGER ASSIST HANDLE	83260	1	ASSY	.1782	.4488			.4488	.6449	.7327	115.5
PLUG - PASS. ASSIST HANDLE	83264	2	PVC	.0058	.0384			.0384	.0552	.0628	60.0
ASM - PASS. ASSIST HANDLE COVER	83265	1	ASSY	.1724	.2033			.2033	.2921	.3318	50.5
ASSEMBLY COST					.2071			.2071	.2976	.3381	5.0

VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - PASS. ASSIST HANDLE COVER	83265	1	ASSY	.1724	.2033			.2033	.2921	.3318	50.5
COVER - PASS. ASSIST HANDLE	83262	1	PVC	.1350	.0860			.0860	.1236	.1404	
REINFORCEMENT - PASS. ASSIST HANDL	83263	1	PLAS	.0374	.0923			.0923	.1326	.1506	50.0
ASSEMBLY COST					.0250			.0250	.0359	.0408	.5

1983
TOYOTA TERCEL BOARD 2



A1-154

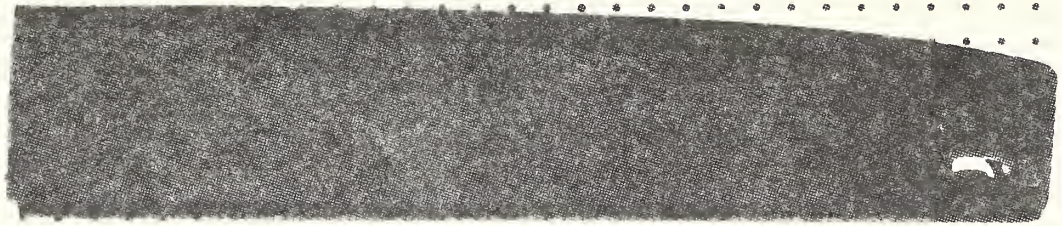
VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	2.8086	3.0386			3.0386	4.3663	4.9600	162.0
PADDING - FOAM	83302	1	PLYF	.7600	.8398			.8398	1.2068	1.3709	
BASE SUPPORT - INST. PANEL PAD	83303	1	CRS	1.4585	.7381			.7381	1.0606	1.2048	75.0
ASM - BASE SUPPORT	83315	1	ASSY	.5901	.6889			.6889	.9898	1.1244	52.0
ASSEMBLY COST					.7718			.7718	1.1091	1.2599	35.0

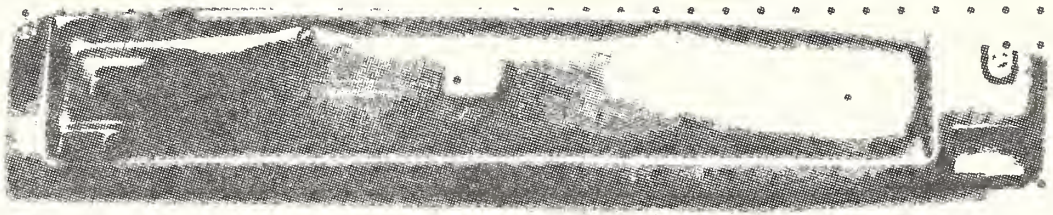
VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - BASE SUPPORT	83315	1	ASSY	.5901	.6889			.6889	.9898	1.1244	52.0
REINFORCEMENT SUPPORT	83308	1	CRS	.4813	.3100			.3100	.4455	.5061	25.0
STUD - REINFORCEMENT	83313	6	STL	.0420	.1200			.1200	.1722	.1956	
REINFORCEMENT BRACKET	83314	1	CRS	.0668	.0706			.0706	.1015	.1153	15.0
ASSEMBLY COST					.1883			.1883	.2706	.3074	12.0

1983
TOYOTA TERCEL BOARD 3



2



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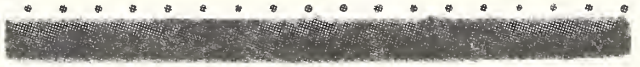

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13

14

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IN 6 12
CM 15 30

VEHICLE- 11- TOYOTA TERCEL

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.1840	.1561			.1561	.2243	.2548	
MAIN PAD	83402	1	FMRB	.1840	.1561			.1561	.2243	.2548	
ASSEMBLY COST											

VEHICLE- 12- NISSAN SENTRA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
NISSAN SENTRA		1		4.3589	9.5737	.2047	.1943	9.9727	14.3309	16.2802	1047.0
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.0426	.0628	.1129	.1275	.3032	.4358	.4951	197.0
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.1848	.7504			.7504	1.0784	1.2252	70.0
ASM - DOOR HANDLE	83151	2	ASSY	.2768	.9234			.9234	1.3270	1.5076	139.0
ASM - ARM REST	83201	2	ASSY	.4064	.6860			.6860	.9858	1.1200	55.0
ASM - SUNVISOR	83220	2	ASSY	.7768	2.8414			2.8414	4.0830	4.6382	320.0
HANDLE - PASSENGER ASSIST	83260	1	PVC	.1157	.2110			.2110	.3032	.3444	50.0
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	1.7500	3.2285			3.2285	4.6393	5.2703	216.0
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.8058	.8702	.0918	.0668	1.0288	1.4784	1.6794	
ASSEMBLY COST											

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1983
TOYOTA TERCEL BOARD 4

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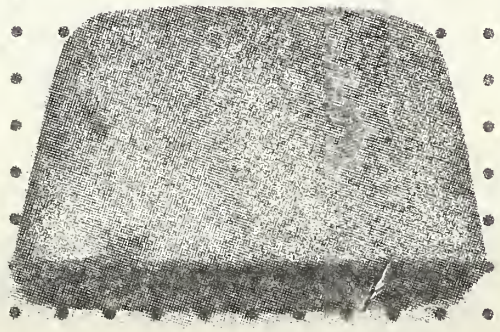
IN 6 12
CM 15 30

2



VEHICLE- 12- NISSAN SENTRA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - GLOVE COMPARTMENT LATCH	83101	1	ASSY	.0426	.0628	.1129	.1275	.3032	.4358	.4951	197.0
HOUSING - GLOVE COMPT. LATCH	83102	1	PLYP	.0116	.0075	.0064	.0078	.0217	.0312	.0354	40.0
SPRING - RELEASE TRIGGER	83106	1	STWR	.0002	.0300			.0300	.0431	.0490	
KNOB - GLOVE COMPT. LATCH	83109	1	PLYP	.0156	.0105	.0255	.0337	.0697	.1002	.1138	50.0
LATCH - GLOVE COMPT.	83112	2	ZN	.0150	.0088	.0196	.0442	.0726	.1044	.1186	105.0
ROLL PIN	83119A	1	STL	.0002	.0050			.0050	.0072	.0082	
ASSEMBLY COST					.0010	.0614	.0418	.1042	.1497	.1701	.2.0

VEHICLE- 12- NISSAN SENTRA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - WINDOW REGULATOR HANDLE	83120	2	ASSY	.0924	.3752			.3752	.5392	.6126	70.0
HANDLE - WINDOW REGULATOR	83121	1	PVC	.0682	.1810			.1810	.2601	.2955	35.0
KNOB - WINDOW REGULATOR	83123	1	PVC	.0242	.1258			.1258	.1808	.2054	30.0
ASSEMBLY COST					.0684			.0684	.0983	.1117	5.0

VEHICLE- 12- NISSAN SENTRA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - DOOR HANDLE	83151	2	ASSY	.1384	.4617			.4617	.6635	.7538	139.0
HANDLE - DOOR	83153	1	PVC	.0383	.0674			.0674	.0969	.1101	20.0
RETURN SPRING - DOOR HANDLE	83155	1	STWR	.0009	.0705			.0705	.1013	.1151	2.0
RETAINER PIN - DOOR HANDLE	83157	1	CRS	.0134	.0206			.0206	.0296	.0336	2.0
BRACKET - DOOR HANDLE	83160	1	G/ST	.0850	.0982			.0982	.1411	.1603	80.0
PAWL - DOOR HANDLE	83164	1	PVC	.0008	.0144			.0144	.0207	.0235	30.0
ASSEMBLY COST					.1906			.1906	.2739	.3112	5.0

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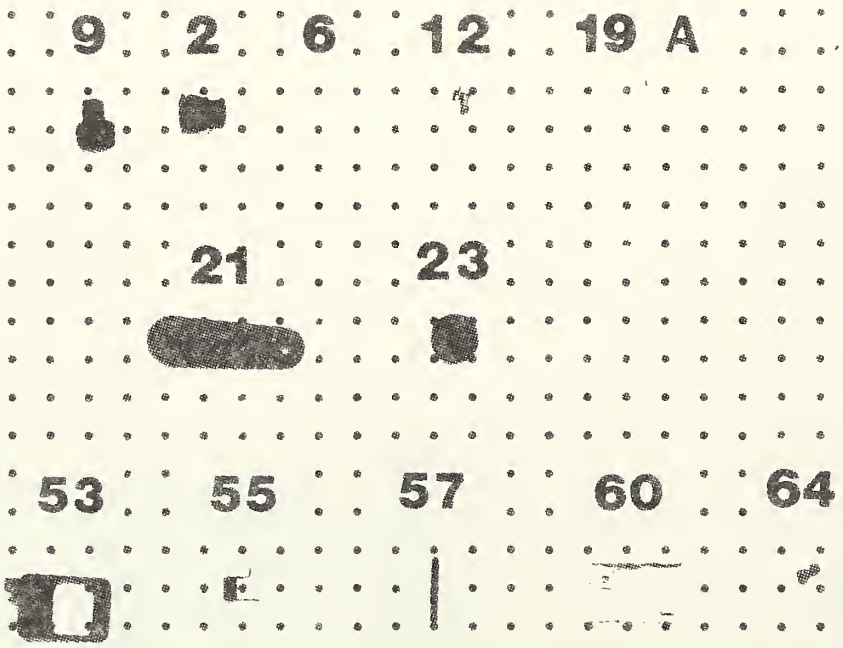

VEHICLE- 12- NISSAN SENTRA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - ARM REST	83201	2	ASSY	.2032	.3430			.3430	.4929	.5600	55.0
PAD	83202	1	PLYF	.0548	.0430			.0430	.0618	.0702	
SUPPORT - ARM REST	83203	1	PLAS	.0575	.1120			.1120	.1609	.1828	30.0
COVER	83205	1	VNL	.0909	.0540			.0540	.0776	.0882	
ASSEMBLY COST					.1340			.1340	.1926	.2188	25.0

VEHICLE- 12- NISSAN SENTRA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SUNVISOR	83220	2	ASSY	.3884	1.4207			1.4207	2.0415	2.3191	320.0
HINGE ROD - SUNVISOR	83221	1	PLAS	.0187	.0322			.0322	.0463	.0526	35.0
HINGE BRACKET - VISOR	83222	1	PLYP	.0213	.0482			.0482	.0693	.0787	40.0
HINGE REINFORCEMENT - SUNVISOR	83223	1	ABS	.0260	.0601			.0601	.0864	.0982	35.0
ROD END EXTENSION	83224	1	ABS	.0042	.0160			.0160	.0230	.0261	30.0
CLIP - SUNVISOR	83228	1	CRS	.0097	.0206			.0206	.0296	.0336	15.0
STIFFENER - SUNVISOR	83229	1	WIRE	.1351	.0635			.0635	.0912	.1036	10.0
COVER - SUNVISOR	83230	2	VNL	.1056	.2082			.2082	.2992	.3398	15.0
PAD - SUNVISOR	83231	2	PLYF	.0346	.1308			.1308	.1880	.2136	15.0
STOWING BRACKET - SUNVISOR	83234	1	PLYP	.0181	.0454			.0454	.0652	.0741	40.0
FASTENER - STOW POST	83240	1	CRS	.0094	.0248			.0248	.0356	.0404	35.0
TAPE	83246	1	PAP	.0004	.0010			.0010	.0014	.0016	
COVER - STOWING BRACKET	83247	1	PLYP	.0053	.0223			.0223	.0320	.0364	15.0
ASSEMBLY COST					.7476			.7476	1.0743	1.2204	35.0

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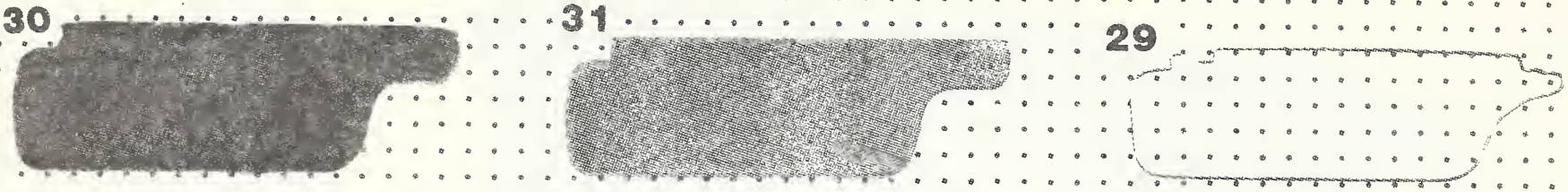
NISSAN SENTRA BOARD 2



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VEHICLE- 12- NISSAN SENTRA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - INSTRUMENT PANEL PAD	83301	1	ASSY	1.7500	3.2285			3.2285	4.6393	5.2703	216.0
FOAM PAD - INSTRUMENT PANEL	83302	1	PLYF	.5003	.6894			.6894	.9907	1.1254	
BASE SUPPORT - INST. PANEL	83303	1	CRS	.4875	.2883			.2883	.4143	.4706	75.0
COVER - INSTRUMENT PANEL PAD	83304	1	PLAS	.5003	1.0210			1.0210	1.4672	1.6667	27.0
BASE SUPPORT (UPPER) - INST. PNL.	83311	1	CRS	.2531	.1891			.1891	.2717	.3087	50.0
RETAINER CLIP	83312	4	STL	.0088	.1200			.1200	.1724	.1960	
ASSEMBLY COST					.9207			.9207	1.3230	1.5029	64.0

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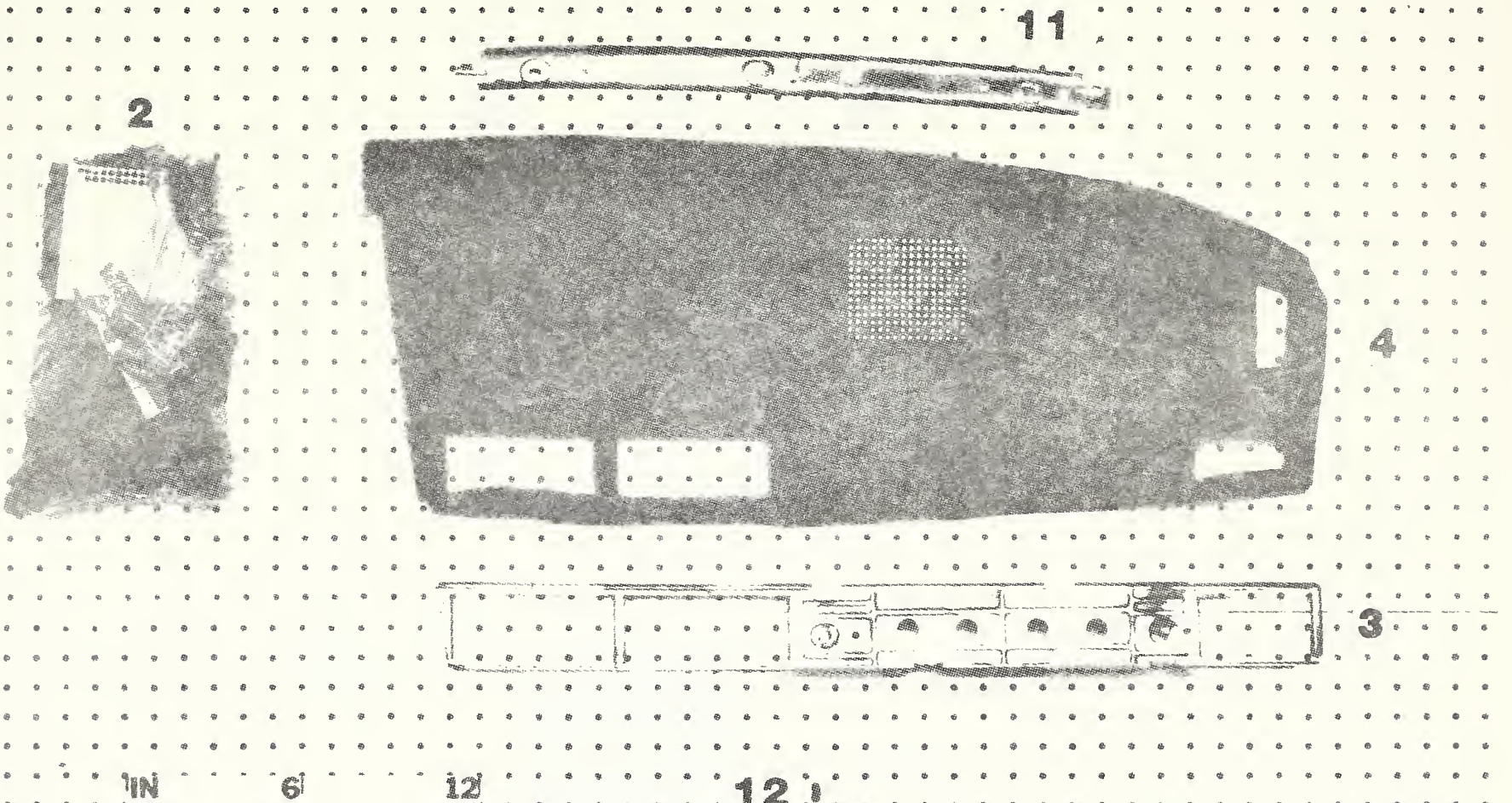
NISSAN SENTRA BOARD 3



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VEHICLE- 12- NISSAN SENTRA

DESCRIPTION	ITEM NO.	QTY	MATL	WEIGHT	VARIABLE MANUFACTURING COST ---- MATERIAL	LABOR	BURDEN	TOTAL	WHOLESALE PRICE	CONSUMER PRICE	TOOLNG 000S
ASM - SEAT BACK PAD (UPPER 6")	83401	2	ASSY	.4029	.4351	.0459	.0334	.5144	.7392	.8397	
MAIN PAD	83402	1	FMRB	.3929	.3333			.3333	.4790	.5441	
MAIN PAD & BATTEN	83407	1	VAR	.0100	.1018	.0459	.0334	.1811	.2602	.2956	
ASSEMBLY COST											

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NISSAN SENTRA BOARD 4

IN 6 12
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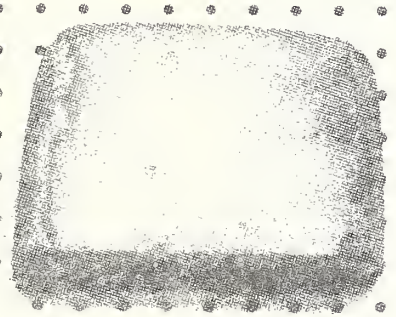

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