

1968

OLDSMOBILE



Delmont

Delta

Ninety Eight

ASSEMBLY MANUAL

**INTRODUCTION
1968 PRODUCT INFORMATION MANUAL**

398162 F-85 SERIES
398163 FULL SIZE CAR SERIES
398164 TORONADO SERIES

THIS MANUAL CONTAINS REDUCED COPIES OF PICTORIAL INSTALLATION DRAWINGS, CHARTS, PROCEDURES, AND OTHER DRAWINGS USED FOR THE ASSEMBLY OF 1968 OLDSMOBILES.





IN ORDER TO PROVIDE A LOGICAL PRODUCT MANUAL FOR THE FINAL ASSEMBLY PLANTS, THE 1968 INFORMATION HAS BEEN ARRANGED TO SHOW BOTH THE STANDARD CAR AND ALSO THE ACCESSORY COMPONENT PARTS AND FASTENINGS IN THE AREAS OF THE CAR WHERE THEY ARE ASSEMBLED. IF DIFFICULTY IS EXPERIENCED IN LOCATING A PART IN THE MANUAL, THERE IS A U. P. C. ORIENTED INDEX FOLLOWING THIS INTRODUCTION WHICH LISTS PARTS AND WHERE THEY MAY BE FOUND IN THE MANUAL.

THIS MANUAL UTILIZES THE BASIC GROUPS AND ELIMINATES THE NEED OF AN OPTION SECTION. THE ARRANGEMENT OF THE PICTORIAL VIEWS ARE IN AGREEMENT WITH ACTUAL PRODUCTION PRACTICES WHEREVER POSSIBLE.

EACH MANUAL IS RELEASED UNDER A BLANKET PART NUMBER FOR ITS PARTICULAR SERIES. WHILE THE MAJORITY OF THE DRAWINGS IN THE MANUAL APPEAR UNDER THE BLANKET OR BASIC MANUAL PART NUMBER, OTHER DRAWINGS, WHICH ARE RELEASED UNDER ANOTHER NUMBER, ARE ALSO INTEGRATED WITH THE REGULAR MANUAL PAGES. THESE DRAWINGS SHOULD BE FILED IN THE MANUAL BY THEIR SECTION AND PAGE NUMBER WITH THE REGULAR MANUAL PAGES.

ALL THE PARTS OR ITEMS DEPICTED IN THE MANUAL HAVE BEEN INDIVIDUALLY RELEASED IN THEIR RESPECTIVE U. P. C. GROUPS PRIOR TO THEIR MANUAL ISSUANCE. THEREFORE, ONCE THE INITIAL RELEASE FOR THE MANUAL HAS BEEN ISSUED, SUBSEQUENT RELEASES FOR EACH PAGE WITH A MANUAL NUMBER ARE NOT WRITTEN EACH TIME THE PAGE IS ISSUED.

CERTAIN SYMBOLS ARE USED THROUGHOUT THE MANUAL TO FACILITATE MANUAL USAGE. THESE SYMBOLS ARE:

-  TORQUE SYMBOL
-  REVISION SYMBOL
-  REFERENCE OR PART NOTE SYMBOL
-  LUBRICATION MATERIAL SYMBOL

A TRANSMITTAL SHEET IS ISSUED WITH NEW OR REVISED MANUAL SHEETS, ITEMIZING THE NUMBER OF MANUAL PAGES AND THE LATEST REVISION OF EACH PAGE IN THE DISTRIBUTION.

EVERY EFFORT WILL BE MADE TO HAVE THE DRAWINGS IN THE MANUAL REFLECT THE LATEST DESIGN AND INSTALLATION CHANGES. IF ANY ERRORS OR OMISSIONS ARE FOUND IN THE BOOK, PLEASE NOTIFY:

GRAPHIC ILLUSTRATION
PRODUCT ENGINEERING DEPT.
BUILDING 66
OLDSMOBILE DIVISION

TELEPHONE
373-4340
AREA CODE 517

EXPLANATION OF THE MANUAL GROUPING

- INDEX NO GROUP NUMBER: PLACE IN THE FRONT PART OF YOUR MANUAL.
- GROUP 0 GENERAL REFERENCES, CHARTS, LAYOUTS AND SPECIAL DRAWINGS.
- GROUP 1-1 ITEMS GENERALLY DEPICTED INSIDE THE FRONT PART OF THE BODY BEFORE THE INSTRUMENT PANEL IS ASSEMBLED.
- GROUP 1-2 ITEMS INSTALLED ON THE OUTSIDE OF THE DASH PANEL AND RELATED AREAS.
- GROUP 1-3 INSTRUMENT PANEL AND RELATED PARTS.
- GROUP 1-4 MISCELLANEOUS BODY PART ITEMS, INCLUDING THOSE IN TRUNK AREA.
- GROUP 1-5 HOSE AND CABLE ROUTINGS.
- GROUP 2 BODY MOUNTING AND FRAME.
- GROUP 3 FRONT SUSPENSION.
- GROUP 4 REAR SUSPENSION.
- GROUP 5 BRAKE SYSTEM.
- GROUP 6-0 ENGINE PLANT DRESS.
- GROUP 6-1 V-8 ENGINE DRESS - FINAL ASSY.
- GROUP 6-2 L-6 ENGINE DRESS - FINAL ASSY.
- GROUP 7 TRANSMISSION AND RELATED PARTS.
- GROUP 8 FUEL AND EXHAUST SYSTEMS.
- GROUP 9 STEERING.
- GROUP 10 WHEELS AND TIRES.
- GROUP 11 SHEET METAL AND ITEMS WHICH ARE FASTENED TO THE SHEET METAL.
- GROUP 12 ELECTRICAL WIRING.
- GROUP 13 THESE ITEMS ARE INCORPORATED IN OTHER GROUPS, MOSTLY GROUP 11.
- GROUP 14 BUMPERS AND BUMPER LAMPS; LICENSE PLATE BRACKETS.

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	TITLE	PRODUCT INFORMATION MANUAL INDEX	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
												DATE JULY 27, 1967	1968	1968	INDEX			A B-C E	398162-3-4
												DR. BY W.E. HASON							
												CHECKED MBambant							
												APPR. Fred Jant							

**U.P.C. SECTION O
GENERAL**

	P. I. M.	
	SEC.	PAGE
CHASSIS ASSY PAINT CHART	0	195
DRILLING LAYOUT -		
DASH	0	140, 141
MISCELLANEOUS	0	142 - 145
GENERAL REFERENCES	0	100
GENERAL WRENCH TORQUE SPEC.	0	101
I. B. M. ACCESSORY CODES	0	155, 156
LOOSE PARTS STOWAGE	0	120
OWNER OPERATING MANUAL	0	120
OWNER PROTECTION PLAN BOOK	0	120
PAINT & TRIM SPEC.	0	180 - 188
PROTECT-O-PLATE	0	115
PROTECTIVE NUMBER STAMPING	0	170
TEMPLATE CHART	0	128
TORQUE CHART -		
BODY	0	113, 114 (B)
CHASSIS	0	102 - 105
TRANSMISSION	0	107 - 112
VEHICLE IDENTIFICATION	0	117
WHEEL ALIGNMENT LAYOUT	3	103

**U.P.C. SECTION IA1
FISHER FURNISH; OLDS INSTALL**

	P. I. M.	
	SEC.	PAGE
CARPET	1-1	114
CYLINDER ASSY - GLOVE BOX DOOR LOCK	1-3	116
CYLINDER ASSY - IGNITION LOCK	1-3	113
KEY - IGNITION & DOOR	0	120
KEY - GLOVE BOX, TRUNK & CONSOLE	0	120
SHROUD FINISHING PANEL	1-1	116
SUN SHADE	1-4	116
TRIM ASSY - SPARE WHEEL COVER (8600)	10	116

**U.P.C. SECTION IA2B
INSTRUMENT PANEL**

	P. I. M.	
	SEC.	PAGE
APPLIQUES	1-3	112
BEZEL	1-3	112
CONTROL PANEL & TRIM PLATE	1-3	112
CONTROL PANEL TAPE	1-3	111
CONTROL PANEL TO PAD ASSY	1-3	119
GLOVE BOX & DOOR	1-3	116
PAD ASSY TO INSTRUMENT PANEL	1-3	110
STEERING COLUMN CAP	9	111

**U.P.C. SECTION IA2C
VENTILATION & HEATING**

	P. I. M.	
	SEC.	PAGE
AIR INLET VALVE BODY ASSY	1-1	115
AIR INLET VALVE BODY ASSY FASTENING	1-1	116
BLOWER ASSY	1-1	121
BLOWER FEED WIRE	12	140
CABLE - HEATER CONTROL	1-5	116
CABLE & HOSE DIAGRAM	1-5	115
CONTROL - HEATER	1-3	114
CONTROL CABLE ROUTING	1-5	116
CONTROL WIRING	12	115
CONTROL WIRING DIAGRAM	12	139
DEFROSTER HOSES	1-1	122
DEFROSTER OUTLET	1-1	120
GROMMET (HEATER VACUUM HOSE)	1-2	111
HEATER ASSY	1-1	120
INSULATOR - DASH	1-1	121
OUTLET - AIR	1-1	120
RESISTOR ASSY	1-1	120
SCREEN - UPPER SHROUD VENT.	1-2	116
SEAL - HOOD LEDGE	1-2	116
WATER HOSES	1-5	117
WATER NIPPLE	6-0	114
VACUUM -		
HOSE DIAGRAM	1-5	115
HOSE ROUTING	1-5	116
SUPPLY FITTING	6-0	118

REVISION										TITLE				PRODUCT INFORMATION MANUAL INDEX					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
																1968		INDEX	2
					9-1-67	B	PAGE NO. ADDED												
					8-21-67	A	PAGE NO. ADDED												
																0 THRU IA2D	SERIES B-C	PART NO.	398163

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

R. CARROLL, INC. 4879

	P. I. M. SEC.	PAGE
(6 CONTINUED)		
CARBURETOR & USAGE CHART - 2 BBL.	6-0	122
CARBURETOR - 4 BBL.	6-0	123
CARBURETOR AIR PRE-HEATER	6-1	142
CARBURETOR PRIMING PROCEDURES	0	149
CHOKE HOUSING	6-0	123
CHOKE PIPES	6-0	122
CHOKE TUBE ASSY	6-0	116
COIL ASSY	6-1	128
CONVERSION CHART	6-1	120, 121
CRANKCASE VENT. HOSE	6-0	130
CRANKCASE VENT. VALVE ASSY	6-0	116
CRANKCASE VENT. PIPE	6-1	150
DISTRIBUTOR VACUUM HOSE	6-0	126 - 129
EMISSION CONTROL SPEC. LABEL	0	124
ENGINE IDENT. CHART	6-1	100
FAN BLADE ASSY	6-1	130
FRONT COVER SHOP ASSY	6-0	112
FUEL PIPE ASSY - PUMP TO CARB.	6-0	133
FUEL PUMP & USAGE CHART	6-0	114
GENERATOR & MOUNTING	6-1	125
GROUND STRAP	12	131
HEAT SHIELD - ENGINE MOUNTING	6-1	140
IGNITION SWITCH ASSY	1-3	113
LIFTING STRAP	6-0	116
MANIFOLD FITTINGS	6-0	118

	P. I. M. SEC.	PAGE
MANUFACTURING NUMBER	6-1	102
MOUNTING TO FRAME	6-1	140
OIL FILLER TUBE & CAP	6-0	112
OIL LEVEL INDICATOR	6-1	132
PLUG -		
POWER BRAKE VACUUM HOLE	6-1	128
FRONT VACUUM HOLE	6-0	126
THERMO. VACUUM SWITCH HOLE	6-0	126, 128
PULLEY & BELT DATA	6-1	110
PULLEY & BELT DIAGRAM	6-1	111 - 114
RADIATOR COOLANT FILL CHART	11	100
RADIATOR HOSE	11	118
PROTECTIVE NUMBER STAMPING	0	170
SOLENOID - THROTTLE CLOSING	6-0	124
SOLENOID - THROTTLE CLOSING - ADJUSTMENT	6-0	105 (A)
SPARK PLUGS, CABLES & BRACKET	6-0	132
STARTER MOTOR ASSY & USAGE CHART	6-0	110
THROTTLE ADJUSTMENT	6-1	119
THROTTLE CONTROL	1-2	120 (B)
TIMING INDICATOR	6-0	112
VOLTAGE REGULATOR	1-2	111
WATER BY-PASS HOSE	6-0	114
WATER OUTLET & THERMOSTAT	6-0	114

**U.P.C. SECTION 7
TRANSMISSION**

	P. I. M. SEC.	PAGE
CLUTCH CONTROL	7	110, 111
CLUTCH RELEASE BEARING ASSY	7	111
DOWNSHIFT SWITCH WIRING	12	111
HOSE - MOD. PIPE TO ELBOW	6-0	126, 128
MODULATOR PIPE	7	150
MODULATOR PIPE CLIP	6-0	120
NEUT. START & BACK-UP SWITCH WIRING	12	111
PROTECTIVE NUMBER STAMPING	0	170
ROLL TEST PROCEDURE	0	151
SHIFT CONTROL - AUTOMATIC MANUAL	7 7	140 115
SHIFT INDICATOR ASSY	9	110
SHIFT LEVER	9	115
SWITCH ASSY - DOWNSHIFT NEUT. START & BACK-UP	1-1 9	113 111
SPEEDOMETER GEAR HOLE PLUG	7	111
TRANSMISSION -		
ASSEMBLY	7	115, 135
OIL COOLER PIPES	7	155
OIL FILLER PIPE & ROD ASSY	7	150
USAGE CHART	7	100

TITLE												PRODUCT INFORMATION MANUAL INDEX									
DATE <i>JULY 31, 1967</i>												FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE			
DR. BY <i>W.E. MASON</i>												1968		INFORMATION MANUAL		INDEX		4			
CHECKED <i>W.P.B. ambart</i>												REF.		SERIES		PART NO.					
APPR. <i>W.C.M.T.</i>												6 THRU 7		B-C		398163					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM

**U.P.C. SECTION 8A & 8B
FUEL SYSTEM**

	P. I. M. SEC.	PAGE
CAP ASSY - TANK	8	111
FILLER DOOR ASSY	14	130
FUEL GAGE GROUND	12	160
GAGE ASSY - TANK	8	100
PIPES	8	110
TANK ASSY CHART	8	100
TANK MOUNTING	8	111
TANK VENT. HOSES	8	111

**U.P.C. SECTION 8C
EXHAUST SYSTEM**

	P. I. M. SEC.	PAGE
CLAMPS & SUPPORTS	8	132
CLEARANCES	8	133
DUAL	8	130
FLANGES - MANIFOLD	8	131
STANDARD	8	130
USAGE CHART	8	120

**U.P.C. SECTION 9
STEERING**

	P. I. M. SEC.	PAGE
COLUMN ASSY FASTENING	9	110
COLUMN ASSY TAPE IDENT. CHART	9	105
FLUID FILL PROCEDURE	9	100

	P. I. M. SEC.	PAGE
GEAR ASSY	9	125
HOSES - POWER STEERING	9	125
LINKAGE ASSY	3	110
PUMP ASSY - POWER STEERING	6-1	126
WHEEL ASSY - STD. DELUXE	9 9	115 116

**U.P.C. SECTION 10
WHEELS & TIRES**

	P. I. M. SEC.	PAGE
SPARE WHEEL - EXC. CONVERTIBLE CONVERTIBLE	10 10	116 117
TIRE PRESSURE LABEL	0	125
TIRE USAGE CHART	10	100
TIRE VALVE EXTENSION PACKAGE	0	120
WHEEL DISC	0	120
WHEEL & TIRE ASSY	10	110
WHEEL USAGE CHART	10	105 (A)

**U.P.C. SECTION 11
SHEET METAL**

	P. I. M. SEC.	PAGE
CLEARANCES - SHEET METAL	11	190
FENDER EXTENSION	11	133
FENDER IDENT. CHART	11	105 - 107
FENDER INSTALLATION	11	140
FENDER MOULDINGS & SCRIPTS	11	150, 152-154
FILLER PLATE	11	135

	P. I. M. SEC.	PAGE
FILLER PLATE SEALS	11	130
HOOD ASSY COMPLETE	11	180, 181
HOOD BUMPER - FRONT REAR	11 1-2	110 115
HOOD INSULATOR	11	180
HOOD HINGE	11	134
HOOD LATCH	11	110
HOOD LATCH PILOT	11	180
HOOD MOULDING	11	181
PANEL ASSY - FRONT END CENTER	11	112
RADIATOR SUPPORT ASSY	11	110
SCRIPT - RADIATOR GRILLE	11	112
STONE SHIELD	11	113
UPPER TIE BAR	11	142

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	PRODUCT INFORMATION MANUAL INDEX	FIRST USED	MANUAL SEC.	PAGE
																DATE <i>JULY 31, 1967</i>	1968	INDEX	5	
																DR. BY <i>W.E. MASON</i>	OLDSMOBILE PRODUCT INFORMATION MANUAL			
																CHECKED <i>MTB amhart</i>	INDEX			
																APPR.	REF.	SERIES	PART NO.	
																8 THRU 11	B-C	398163		

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

D. CARROLL, INC. 4884

**U.P.C. SECTION 12
ELECTRICAL**

	P. I. M.	
	SEC.	PAGE
ASH TRAY LAMP HOUSING ASSY	1-3	113
BATTERY ASSY	12	131
BATTERY SUPPORT	11	141
CABLE ASSY -		
ASH TRAY LAMP	12	110
CLOCK LAMP	12	110
BATTERY	12	131
JUNC. BLOCK TO CIRC. BRKR.	12	134
SHIFT INDICATOR LAMP	12	110
SPEEDOMETER	1-5	119
STARTER	6-1	127
CIGAR LIGHTER ASSY	1-3	113
CLIP - HARNESS TO ENGINE	6-0	120
CLOCK ASSY	1-3	112
COURTESY LAMP HOUSING ASSY	1-3	110
COVER -		
CLOCK HOLE	1-3	112
MAP LAMP & RADIO HOLE	1-3	114
SPEAKER HOLE	1-1	111
FLASHER - FLARESTAT	12	100
TURN SIGNAL	1-3	110
FUEL GAGE ASSY	1-3	112
FUSE PANEL CHART	12	100
HARNESS ASSY -		
CHART - ENGINE	6-1	127
COURTESY LAMP	12	110
ENGINE	12	138

	P. I. M.	
	SEC.	PAGE
GENERATOR & FORWARD LAMP	12	134, 137
INSTRUMENT PANEL	12	110
POWER TOP	12	111
HAZARD WARNING KNOB ASSY	9	115
HEADLAMP DOOR	11	113
HEADLAMP FOCUS CHART	12	105
HORN ASSY	11	110
HORN CAP	9	115
HORN CONTACT ASSY	9	116
INSTRUMENT CLUSTER ASSY	1-3	112
JUNCTION BLOCK, RELAY & BUZZER ASSY	11	130
LAMP ASSY -		
BACK-UP	14	118
COURTESY	12	110
GLOVE BOX	1-3	116
HEAD	11	113
LICENSE (EXC. 84 - 8600)	14	115
MAP	1-3	114
PARK & TURN	11	133
REAR (EXC. 84 - 8600)	14	118
STARTER CABLE TUBE	6-1	132
SWITCH ASSY -		
BACK-UP LAMP	9	111
DOOR JAMB	12	111
GLOVE BOX LAMP	1-3	116
HEADLAMP DIMMER	1-1	111

	P. I. M.	
	SEC.	PAGE
SWITCH ASSY (CONTINUED)		
LIGHT	1-3	115
OIL PRESSURE	6-0	112
OPERATION CHART	12	106 - 109
PARKING BRAKE INDICATOR	5	118
POWER TOP	1-3	115
STOP LIGHT	5	112
WATER TEMP.	6-1	128 (A)
TURN SIGNAL - CANCEL CAM ASSY	9	115, 116
LEVER ASSY	9	115
WIRE ASSY - LIGHT TRANSMITTING	1-3	113
WIRING - (ALSO SEE HARNESS ASSY)		
CLOCK	12	110
BACK-UP LAMP	12	162
BACK-UP LAMP SWITCH	12	111
BRAKE WARNING LIGHT SWITCH	12	135
COURTESY LAMP	12	110
DIMMER SWITCH	12	111
FUEL TANK GAGE - EXC. 84 - 8600	12	161
84 - 8600	12	160
HORN SWITCH	9	115, 116
LICENSE LAMP	12	162
MAP LAMP	12	110
PARKING BRAKE INDICATOR	12	111
STOP LIGHT SWITCH	12	112
TURN SIGNAL SWITCH	12	111

														TITLE		PRODUCT INFORMATION MANUAL INDEX					
														DATE <u>JULY 31, 1967</u>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE	
														DR. BY <u>W.C. MASON</u>		1968		INFORMATION MANUAL		INDEX 6	
														CHECKED <u>W.B. Barnhart</u>		REF.		SERIES		PART NO.	
														APPR.		12		B-C		398163	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.						

**U.P.C. OPTION 35D33
REMOTE CONTROL MIRROR**

	P. I. M. SEC.	PAGE
REMOTE CONTROL MIRROR	1-4	121, 122

**U.P.C. OPTION 35D55
FRONT COMPARTMENT CONSOLE**

CONSOLE - AUTOMATIC SHIFT	1-1	315 - 317
HARNESS ASSY	1-1	316
HARNESS ASSY - I. P. TO CONSOLE	12	315

ALL SUSPENSION OPTIONS WILL BE
FOUND IN P. I. M. SECTIONS 3 & 4

**U.P.C. OPTION 35G66
SUPERLIFT - REAR SHOCK ABS.**

CAUTION LABEL	4	115
FILLER VALVE	4	115
GENERAL INSTRUCTIONS	4	115, 116
TUBING ROUTING	4	115, 116

ALL REAR AXLE RATIO OPTIONS WILL
BE FOUND IN P. I. M. SECTION 4

**U.P.C. OPTION 35J50
POWER BRAKES**

	P. I. M. SEC.	PAGE
ACCELERATOR PEDAL ASSY	1-1	114
MASTER CYLINDER	5	110
PEDAL	5	112
PIPES	5	111
PIPE CHART	5	113
POWER HEAD ASSY	5	110
STOP LAMP & REL. SWITCH BRACKET	5	112
VACUUM -		
HOSE ROUTING	5	111
PIPE	6-1	129
SUPPLY FITTING	6-0	118

**U.P.C. OPTION 35J52 & 35J55
POWER DISC BRAKES**

ACCELERATOR PEDAL ASSY	1-1	114
BALANCE VALVE ASSY	5	115
KNUCKLE SHOP ASSY & PIPING	5	115
MASTER CYLINDER ASSY	5	110
METERING VALVE ASSY	5	115
PEDAL	5	112
PIPES	5	115
POWER CYLINDER ASSY PIPING	5	115
POWER HEAD ASSY	5	110

	P. I. M. SEC.	PAGE
STOP LAMP & REL. SWITCH BRACKET	5	112
VACUUM -		
HOSE ROUTING	5	111
PIPE	6-1	129
SUPPLY FITTING	6-0	118

**U.P.C. OPTION 35K30
CRUISE CONTROL**

CABLE ASSY -		
REGULATOR DRIVE	1-5	351
SPEEDOMETER	1-5	351
THROTTLE CONTROL	1-5	350
CONTROL ASSY	1-3	350
FUSE ASSY	12	100
HARNESS ASSY	1-5	351, 352
PLUG - SPEEDO HOLE	1-5	351
REGULATOR ASSY	1-5	350
REG. BRKT. TO FILLER PLATE	11	130
SWITCH ASSY - AUTO. THROTTLE RELEASE	5	112
TEST PROCEDURE	0	350

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	PRODUCT INFORMATION MANUAL INDEX	MANUAL SEC.	PAGE	
																				DATE <i>JULY 31, 1967</i>	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	INDEX	9
																				DR. BY <i>W.E. MASON</i>	1968	INDEX		
																				CHECKED <i>1/13/68 arhart</i>	REF. 35D33 THRU 35K30	SERIES	B-C	PART NO.
																				APPR.			398163	

**U.P.C. OPTION 35K66
CAPACITOR DISCHARGE IGN. SYS.**

	P. I. M.	
	SEC.	PAGE
AMPLIFIER ASSY	12	330
CAPACITOR ASSY - COIL	12	330
COIL & DISTRIBUTOR ASSEMBLIES	6-1	128
ENGINE CONVERSION CHART	6-1	121
HARNESS ASSY - ENGINE	6-1	127
WIPER JUMPER	12	138
WIRING	12	331
WIRING DIAGRAM	12	330

**U.P.C. OPTION 35K81
DELCO TRON-62 AMPERE**

REGULATOR ASSY	1-2	111
----------------	-----	-----

**U.P.C. OPTION 35L66, 35L74
ENGINE OPTION**

AIR CLEANER ASSY	6-1	150
BATTERY ASSY	12	131
BOLT - DASHPOT MTG. HOLE - 35L74, L76	6-0	118
CARB. & CHOKE HOUSING ASSY - 35L74, L76	6-0	123
DISTRIBUTOR VAC. HOSE - 35L74, L76	6-0	128
ENGINE ASSY	6-1	100
ENGINE CONVERSION CHART	6-1	120, 121

	P. I. M.	
	SEC.	PAGE
FUEL TANK CAP ASSY	8	111
FUEL PIPE - PUMP TO CARB. - 35L74, L76	6-0	133
LABEL - EMISSION CONTROL SPEC.	0	124
ROD - CARB. TO AUX. B/C - 35L74, L76	6-0	123
SPARK PLUG ASSY	6-0	132
SPRING - THROTTLE RETURN - 35L74, L76	1-2	120
STARTER MOTOR ASSY	6-0	110

**U.P.C. OPTION 35M31, 35M40, 35M41
AUTOMATIC TRANSMISSION**

ACCEL. PEDAL LEVER ASSY	1-2	120
BATTERY CABLE ASSY	6-1	127
BRAKE PEDAL ARM ASSY	5	112
CARBURETOR ASSY - 2 BBL - 35M40, M41	6-0	122
CLIP - HARNESS TO ENGINE	6-0	120
DASHPOT	6-0	124
ENGINE ASSY	6-1	100
ENGINE MOUNT ASSY	6-1	140
EXHAUST PIPE ASSY	8	130
MODULATOR HOSE	6-0	126, 128
MODULATOR PIPE	7	150
PARKING BRAKE CABLE	5	117
PLUG - DASH PANEL	5	110
PROPELLER SHAFT ASSY	4	110
RADIATOR ASSY	11	116

	P. I. M.	
	SEC.	PAGE
ROLL TEST PROCEDURE - 35M31, 35M40, M41	0	150
	0	151
SHIFT CONTROL - COLUMN FLOOR	7	140
	7	145, 146
SHIFT INDICATOR ASSY	9	110
SHIFT LEVER ASSY	9	115
STEERING COLUMN ASSY	9	105
SWITCH ASSY - DOWNSHIFT NEUT. START & BACK-UP	1-1	113
	9	111
TRANSMISSION ASSY	7	135
TRANSMISSION OIL -		
COOLER PIPE	7	155
FILLER PIPE ASSY	7	150
TRANS. SUPPORT MOUNTING ASSY	6-1	140
WIRING - DOWNSHIFT SWITCH NEUT. START & BACK-UP SWITCH	12	111
	12	111

**U.P.C. OPTION 35M55
AUXILIARY OIL COOLER**

COOLER ASSY	11	114
PIPE ASSY TO RADIATOR	7	155

**U.P.C. OPTION 35N10
DUAL EXHAUST SYSTEM**

EXHAUST SYSTEM	8	130
HEAT SHIELD - STEERING COUPLING	6-1	141
USAGE CHART	8	120

TITLE														PRODUCT INFORMATION MANUAL INDEX							
DATE <i>JULY 31, 1967</i>														FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC.		PAGE	
DR. BY <i>H.E. MASON</i>														1968				INDEX		10	
CHECKED <i>M.P. Lambert</i>														REF. 35K66 THRU 35N10		SERIES		PART NO.			
APPR.														B-C				398163			
DATE	SYM	REVISION		DR.	CK.	DATE	SYM	REVISION		DR.	CK.	DATE	SYM	REVISION		DR.	CK.	APPR.			

**U.P.C. OPTION 35U29
COURTESY LAMPS**

	P. I. M.	
	SEC.	PAGE
HOUSING ASSY	1-3	110
MAP LAMP ASSY	1-3	114
SOCKET & WIRE ASSY	12	110

**U.P.C. OPTION 35U35
ELECTRIC CLOCK**

	P. I. M.	
	SEC.	PAGE
CLOCK ASSY	1-3	112
WIRING	12	110

**U.P.C. OPTION 35U57
STEREO TAPE PLAYER**

	P. I. M.	
	SEC.	PAGE
ALBUM	0	120
FADER CONTROL	1-3	320
GROUND STRAP ASSY	1-3	322
PLAYER ASSY	1-3	322
PLAYER MOUNTING TO I. P.	1-3	322
REAR SEAT SPEAKER ASSY	1-4	330
WIRING	12	321

**U.P.C. OPTION 35U58,35U59,35U63
RADIO RECEIVER**

	P. I. M.	
	SEC.	PAGE
ANTENNA LEAD-IN ROUTING	1-4	321
CAPACITOR ASSY - COIL REGULATOR	12 1-2	138 111
FUSE ASSY	12	100
GROUND STRAP ASSY - CONTROL ARM FILLER PLATE	3 12	112 355
MAST ASSY - ANTENNA	1-4	320
RECEIVER ASSY - 35U58 EXC. 35U58	1-3 1-3	321 320
SPEAKER ASSY - FRONT REAR (35U58)	1-1 1-4	111 330
STATIC COLLECTOR ASSY	3	111
WIRING - 35U58 EXC. 35U58	12 12	320 319

**U.P.C. OPTION 35U75
ELECTRIC ANTENNA**

	P. I. M.	
	SEC.	PAGE
ANTENNA ASSEMBLY	1-4	325
FUSE ASSY	12	100
PLUG	1-2	111
SWITCH ASSY	1-3	115
WIRING	12	317

**U.P.C. OPTION 35U80
REAR SEAT SPEAKER**

	P. I. M.	
	SEC.	PAGE
FADER CONTROL ASSY	1-3	320
SPEAKER ASSY	1-4	330
WIRING TO RADIO	1-4	321

**U.P.C. OPTION 35U89
CAR TRAILER WIRING HARNESS**

	P. I. M.	
	SEC.	PAGE
TURN SIGNAL FLASHER ASSY	1-3	110

**U.P.C. OPTION 35V01
RADIATOR-HEAVY DUTY**

	P. I. M.	
	SEC.	PAGE
RADIATOR ASSY	11	116

**U.P.C. OPTION 35Y60
ACCESSORY PACKAGE GROUP**

	P. I. M.	
	SEC.	PAGE
VISOR VANITY MIRROR	1-4	117
TRUNK LAMP ASSY	12	360

(A) (CONTINUED)

										TITLE				PRODUCT INFORMATION MANUAL INDEX							
										DATE <i>JULY 31, 1967</i>				FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
										DR. BY <i>W.C. MASON</i>				1968		INFORMATION MANUAL		INDEX		12	
										CHECKED <i>W.C. Mason</i>				REF.		SERIES		PART NO.			
										9-14-67 A NOTE ADDED				35U29 THRU 35Y60		B-C		398163			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	DR.	CK.	APPR.			

(35Y60 CONTINUED)

35U26

	SEC.	P. I. M. PAGE
GLOVE BOX LAMP ASSY	1-3	116
GLOVE BOX LAMP SWITCH ASSY	1-3	116
GLOVE BOX LAMP WIRING	12	110
UNDERHOOD LAMP ASSY	11	180
UNDERHOOD LAMP WIRING	12	336
UNDERHOOD & GLOVE BOX LAMP FUSE	12	100

**U.P.C. OPTION 35Y68
EXTERIOR MOULDINGS**

FENDER ASSY	11	106, 107
MOULDING	11	157

**U.P.C. OPTION 35Y72
HEAVY DUTY GEN. & ENG. COOLING**

COVER SHOP ASSY	6-0	112
ENGINE ASSY	6-1	100
ENGINE CONVERSION CHART	6-1	121
FAN BLADE ASSY & CLUTCH ASSY	6-1	210

	SEC.	P. I. M. PAGE
GENERATOR ASSY	6-1	112, 114
RADIATOR ASSY	11	116
RADIATOR INLET HOSE	11	118
RADIATOR UPPER BAFFLE ASSY	11	117
WATER OUTLET	6-0	114
WATER PUMP BODY ASSY - V-8	6-1	210

**U.P.C. OPTION 35Y75
REINFORCED WHEEL & MOUNTING**

KNUCKLE SHOP ASSY CHART	3	105
TIRE ASSY USAGE CHART	10	100
WHEEL ASSY	10	110
WRENCH - WHEEL & JACK HANDLE	10	115

**U.P.C. OPTION 35Y77
COMBINATION OPTION**

35B36

LUGGAGE COMP. MAT STOWAGE	0	120
---------------------------	---	-----

35P17

SPARE WHEEL COVER	10	117
-------------------	----	-----

**U.P.C. OPTION 35Y78
CUSTOM TRIM OPTION**

SCRIPT - GLOVE BOX DOOR	1-3	116
-------------------------	-----	-----

**U.P.C. SECTION 96
G.M. OF CANADA**

	SEC.	P. I. M. PAGE
OWNER OPERATING MANUAL	0	120
OWNER PROTECTION PLAN BOOK	0	120

**U.P.C. SECTION 97-1 THRU 97-35
G.M. ASSEMBLY PLANTS**

APPEARANCE WAX	0	135
BRACKET - VACUUM CONTROL MTG.	1-1	120
BUMPER - REAR AXLE	4	111
COVER - FRONT SEAT PROTECTOR	1-4	110
POWER BRAKE CYL. ASSY - 35J50 & 35J52	5	110

TITLE												PRODUCT INFORMATION MANUAL INDEX								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	
																1968		INDEX		13
																REF. 35Y60 THRU 97-35	SERIES B-C	PART NO.		398163

A

FOR ENGINEERING U. P. C.
OPTION LIST, SEE ADVANCE
ENGINEERING ORDER NUMBER
68-522.

FOR CANADIAN BUILT F-85
MODEL SPECIAL PARTS USAGE
SEE 1968 F-85 PARTS LIST
SECTION 96.

B-C

FOR ENGINEERING U. P. C.
OPTION LIST, SEE ADVANCE
ENGINEERING ORDER NUMBER
68-8.

E

FOR ENGINEERING U. P. C.
OPTION LIST, SEE ADVANCE
ENGINEERING ORDER NUMBER
68-2005.

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	GENERAL REFERENCES	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PARTY NO.
																	DATE <i>JUNE 27, 1967</i>		1968			100	A-BC-E	398162-3-4
																	DR. BY <i>M. G. BAENHAET</i>							
																	CHECKED <i>M. G. Baenhaet</i>							
																	APPR.							
																	APPR.							

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE	INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
① 122336-B	7/16-14 X 3.00	GM 286-M		30-45 LB. FT.	BODY MOUNTING POSITIONS #1 & #1A	25-55 LB. FT.
3902231-B	7/16-14 X 2.37	GM 286-M		30-45 LB. FT.	BODY MOUNTING POSITIONS #3, #4 & #5	25-55 LB. FT.
396785-B	7/16-14 X 2.87	GM 286-M		30-45 LB. FT.	BODY MOUNTING POSITION #7	25-55 LB. FT.
3902232-B	7/16-14 X 2.88 (OPT)					
112594-B	7/16-14 X 3 1/4	GM 286-M		30-45 LB. FT.	BODY MOUNTING POSITION #9	25-55 LB. FT.
102634-N	5/16-18	GM 286-M	120-180 LB. IN.		TRANSMISSION SUPPORT TO FRAME	
② 9418931-N	3/8-16	GM 286-M		120-180 LB. IN.	BUMPER ASSY TO LOWER ARM	
④ ② 9421430-B	1/2-13 X 3 3/4	GM 300-M		90-120 LB. FT.	LOWER ARM TO FRAME BRACKET	60-110 LB. FT.
② 9422301-N	1/2-13 (LOCK)	GM 301-M		70-90 LB. FT.		
⑤ 9420460-N	5/8-18	GM 286-M		50-65 LB. FT.	BUSHING ASSY TO UPPER ARM INNER SHAFT	40-75 LB. FT.
9422301-N	1/2-13 (LOCK)	GM 301-M		65-85 LB. FT.	UPPER ARM ASSY TO FRAME	
③ 273693-N	5/8-18	GM 301-M		70-95 LB. FT.	LOWER ARM ASSY TO STEERING KNUCKLE	55-120 LB. FT.
③ 9427880-N	9/16-18	GM 301-M		40-60 LB. FT.	UPPER ARM ASSY TO STEERING KNUCKLE	30-90 LB. FT.
① 388861-N	3/4-20	SAE 1109 TO 1113			HUB TO KNUCKLE-L.H.	
① ② 378137-N	3/4-20	GM 286-M			HUB TO KNUCKLE-R.H.	
② 1365067-N	3/8-24	SAE 1113		60-120 LB. IN.	SHOCK ABSORBER UPPER MOUNTING	
② 9420555-SC	5/16-18 X 7/8	GM 275-M		15-25 LB. FT.	SHOCK ABSORBER LOWER MOUNTING	
② 9422107-SC	5/16-18 X 1 1/8	GM 6010-M		10-15 LB. FT.	STABILIZER BRACKET TO FRAME	
9411638-N	5/16-18 (LOCK)	GM 284-M		60-180 LB. IN.	FRONT STABILIZER LINK	

(*) WHILE ROTATING HUB AND DRUM ASSEMBLY -

1. TIGHTEN NUT TO 25 TO 30 LB. FT. TORQUE.
2. BACK OFF NUT 1/2 TURN.
3. RETIGHTEN NUT FINGER TIGHT, SECURE IF POSSIBLE.
4. IF UNABLE TO SECURE AT FINGER TIGHT, BACK OFF TO FIRST SECURING POSITION.
5. FRONT DRUM MUST BE ROTATED AT LEAST THREE REVOLUTIONS OF SPINDLE NUT DURING TIGHTENING & RETIGHTENING OPERATIONS.
6. CHECK DIM. -.001 -.005 END PLAY BETWEEN HUB & SPINDLE.

(*) ANY RETORQUE SUBSEQUENT TO THE INITIAL APPLICATION MUST BE APPLIED TO THE SAME END AS TORQUED INITIALLY.

(*) ALSO SHOWN ON 400274 F-85 TORQUE WRENCH CHART.

(*) AFTER REACHING MINIMUM TORQUE REQUIRED, NUT MUST ALWAYS BE TIGHTENED FURTHER, NEVER BACKED OFF, TO INSERT COTTER PIN. MAXIMUM AUDIT TORQUE NOT TO BE EXCEEDED FOR RE-INSTALLATION OF COTTER PIN AFTER AUDIT.

DATE		SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	
						2-14-68	F	WAS 103030	KL	JR	4667	A	NOTE REVISED								

CHART - WRENCH TORQUE (CHASSIS)

FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	102
DATE	MARCH 6, 1967	SERIES	B-C	PART NO.
DR. BY	RODNEY DAVIS			400411
CHECKED	J.N. FINE			
APPR.	J.L. Zimmerman			
APPR.	R. W. [Signature]			

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

R. CARROLL, INC. 17664

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
(*) 102634-N	5/16-18	GM 286-M	12-16 LB. FT.	PROP SHAFT TO AXLE PINION FLANGE	
(*) 9421430-B	1/2-13 X 3 3/4	GM 300-M	90-120 LB. FT.	UPPER ARMS TO FRAME CROSS MEMBER	60-110 LB. FT.
(*) 9422301-N	1/2-13 (LOCK)	GM 301-M	70-90 LB. FT.	UPPER ARMS TO DIFFERENTIAL CARRIER	60-110 LB. FT.
(*) 9421430-B	1/2-13 X 3 3/4	GM 300-M	90-120 LB. FT.	LOWER ARMS TO FRONT BRACKET	60-110 LB. FT.
(*) 9422301-N	1/2-13 (LOCK)	GM 301-M	70-90 LB. FT.	LOWER ARMS TO REAR BRACKET	
(*) 9418897-N	7/16-14	GM 286-M	35-55 LB. FT.	BUMPER SPACER TO SPRING SEAT (S.M. EXC. 5400)	
(*) 9423701-SC	5/16-18 X 1 1/16	GM 275-M	15-25 LB. FT.	SHOCK ABSORBER UPPER MOUNTING	
(*) 9421085-N	1/2-20	GM 286-M	55-75 LB. FT.	SHOCK ABSORBER LOWER MOUNTING	
GRP. #5					
9422303-N	9/16-12 (LOCK)	GM 301-M	110-140 LB. FT.	BRAKE & STEERING ARM TO KNUCKLE	95-150 LB. FT.
582089-B	9/16-18 X 2 1/2	GM 280-M	120-145 LB. FT.	BRAKE TO KNUCKLE (ANCHOR PIN)	110-160 LB. FT.
9418781-N	3/8-24 (LOCK)	GM 286-M	40-50 LB. FT.	REAR BRAKE TO AXLE HOUSING	30-60 LB. FT.
9422277-N	3/8-16 (LOCK)	GM 286-M	120-180 LB. IN.	ARM ASSY TO BRACKET-BRAKE PEDAL	
(*) 1359887-N	5/16-18	GM 286-M	84-120 LB. IN.	LEVER ASSY TO DASH-PARKING BRAKE	
9417954-N	5/16-18	GM 286-M	36-72 LB. IN.	EQUALIZER TO FRONT CABLE ASSY	
9418931-N	3/8-16	GM 286-M	20-28 LB. FT.	REINFORCEMENT TO DASH UPPER	15-30 LB. FT.
9418931-N	3/8-16	GM 286-M	20-28 LB. FT.	REINFORCEMENT TO DASH CENTER (EXC. 84 & 8600)	15-30 LB. FT.
9418931-N	3/8-16	GM 286-M	20-28 LB. FT.	REINFORCEMENT TO DASH LOWER (EXC. 84 & 8600)	15-30 LB. FT.
9413192-N	3/8-16	SAE #1008, #1010, #1110	20-28 LB. FT.	REINFORCEMENT & POWER CYL. TO DASH (84 & 8600 ONLY)	15-30 LB. FT.
9420825-SC	5/16-18 X 9/16	GM 601D-M	72-96 LB. IN.	FRONT BRAKE HOSE BRACKET TO FRAME	
9420825-SC	5/16-18 X 9/16	GM 601D-M	60-90 LB. IN.	BRAKE PIPE TO FRAME SIDE BAR	
9420825-SC	5/16-18 X 9/16	GM 601D-M	120-180 LB. IN.	DISTRIBUTOR ASSY TO FRAME	
9418918-B	5/16-18 X 1.00	GM 280-M	120-180 LB. IN.	HOSE ASSY TO AXLE HOUSING	
(*) 9418931-N	3/8-16	GM 286-M	20-28 LB. FT.	MASTER CYL. TO POWER CYL. (84-8600 ONLY)	

(*) ALSO SHOWN ON 400274 F-85 TORQUE WRENCH CHART.

(*) ANY RETORQUE SUBSEQUENT TO THE INITIAL APPLICATION MUST BE APPLIED TO THE SAME END AS TORQUED INITIALLY.

DATE		SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.																					
8-10-67		K	WAS 30-40 LB. FT.			8-10-67		V	WAS 20-50 LB. FT.		8-10-67		H	WAS 385099		6-19-67		G	WAS 9422277-N		9-28-67		L	REVISED																	
CHART - WRENCH TORQUE (CHASSIS)																																									
TITLE												FIRST USED		MANUAL SECTION		PAGE																									
DATE MARCH 6, 1967												1968		O		103																									
DR. BY RODNEY DAVIS												SERIES		PART NO.																											
CHECKED J.N. FAMES												B-C		400411																											
APPR. J.R. L... ..												REF.																													

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
GRP. #6					
454932-B	7/16-14 X 1.00	GM 300-M	70-85 LB. FT.	SUPPORT ASSY TO ENGINE	
427560-B	7/16-14 X 1.50	GM 300-M	70-85 LB. FT.	SUPPORT ASSY TO ENGINE (84 & 8600 ONLY)	
9422301-N	1/2-13 (LOCK)	GM 301-M	55-65 LB. FT.	SUPPORT TO FRAME	
(*) 9419073-B	7/16-14 X 1.00	GM 280-M	45-60 LB. FT.	SUPPORT ASSY TO TRANS. SUPPORT	
9419074-B	7/16-14 X 1.125	GM 280-M	45-60 LB. FT.	SUPPORT ASSY TO TRANSMISSION	
GRP. #7					
(*) 9425486-SC	#8-32 X 7/32	GM 6010-M	12-18 LB. IN.	NEUTRAL START & BACK-UP SWITCH TO COL.	
GRP. #8					
(*) 3837950-SC	#10-16 X 5/16	STEEL	20-25 LB. IN.	FUEL GAGE GROUND TO UNDERBODY	
1361640-N	3/8-16	GM 286-M	96-120 LB. IN.	STRAP-FUEL TANK TO BODY	
9418994-B	3/8-16 X 1 1/4	GM 280-M	10-18 LB. FT.	CROSSOVER PIPE TO MANIF. - R.H. & L.H.	
9418995-B	3/8-16 X 2.25	GM 280-M	10-18 LB. FT.	EXHAUST PIPE TO MANIFOLD (EXC. 5400)	
9418994-B	3/8-16 X 1 1/4	GM 280-M	10-18 LB. FT.	EXHAUST PIPE TO MANIFOLD (5400 ONLY)	
9419402-SC	5/16-18 X 3/4	GM 6010-M	72-96 LB. IN.	SUPP. ASSY EXHAUST PIPE TO FRAME (EXC. 5400)	
1363900-SC	#20-9 X 1 1/4	GM 275-M	108-144 LB. IN.	CLAMP EXHAUST PIPE TO SUPPORT (EXC. 5400)	
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	MUFFLER TO EXHAUST PIPE	
9419402-SC	5/16-18 X 3/4	GM 6010-M	72-96 LB. IN.	SUPPORT ASSY MUFFLER TO FRAME	
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	MUFFLER & PIPE TO SUPPORT ASSY	
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	RESONATOR FRONT TO PIPE	
9419402-SC	5/16-18 X 3/4	GM 6010-M	72-96 LB. IN.	RESONATOR REAR SUPPORT TO FRAME	
1363900-SC	#20-9 X 1 1/4	GM 275-M	108-144 LB. IN.	RESONATOR TO REAR SUPPORT	
GRP. #9					
(*) 5667628-N	7/8-14	SAE #1018 OR #1022	120-160 LB. FT.	PITMAN ARM TO STEERING GEAR	20-45 LB. FT.
9419713-B	7/16-14 X 3 3/4	GM 300-M	60-80 LB. FT.	STEERING GEAR TO FRAME	45-95 LB. FT.
451399-N	5/16-24	GM 286-M	15-25 LB. FT.	STEERING GEAR TO STEERING COLUMN	10-30 LB. FT.
9420821-N	3/8-24	GM 286-M	15-25 LB. FT.	STEERING GEAR TO STEERING COLUMN	10-30 LB. FT.
(*) 114496-N	1/2-20	GM 286-M	30-40 LB. FT.	STRG. WHEEL TO STRG. COLUMN SHAFT	25-60 LB. FT.
179844-B	3/8-16 X 1 5/8	GM 280-M	15-25 LB. FT.	TIE ROD ADJUSTING CLAMP	10-35 LB. FT.
9415561-N	3/8-16 (NYLOK) (OPT THOMPSON)	GM 286-M	15-25 LB. FT.	TIE ROD ADJUSTING CLAMP	10-35 LB. FT.
(*) 5675647-N	1/2-20	GM 301-M	40-60 LB. FT.	INTER. ROD TO TIE ROD & TIE ROD TO KNUCKLE	35-85 LB. FT.
(*) 9422297-N	3/8-16 (LOCK)	GM 301-M	35-45 LB. FT.	IDLER ARM TO FRAME	30-55 LB. FT.
3824475-N	9/16-18	GM 301-M	50-70 LB. FT.	POWER STEERING PULLEY TO PUMP	45-75 LB. FT.
(*) 9426652-SC	1/4-14 X 1.75	GM 6010-M	20-30 LB. IN.	POWER STEERING HOSE TO BRACKET	

(*) ALSO SHOWN ON 40074 F-85 TORQUE WRENCH CHART.

(*) AFTER REACHING MINIMUM TORQUE REQUIRED, NUT MUST ALWAYS BE TIGHTENED FURTHER, NEVER BACKED OFF, TO INSERT COTTER PIN.

24 LB. IN. MINIMUM. BOLT MUST EXTEND A MINIMUM OF 1 1/2 INCHES BEYOND NUT.

DATE		SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
CHART - WRENCH TORQUE (CHASSIS) FIRST USED 1968 OLDSMOBILE PRODUCT INFORMATION MANUAL MANUAL SECTION O PAGE 104 SERIES B-C PART NO. 400411												SHEET 3								
TITLE DATE MARCH 7, 1967 DR. BY RODNEY DAVIS CHECKED J. N. FINE'S APPR. J. R. Fennell												REF.								
E REVISED D 3824475-NUT ADDED C RETYPED B WAS 9414016 A TORQUE ADDED												5367 4667 4667								

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
516637-N	1/2-20	GM 286-M	GRP. #10 65-85 LB. FT.	WHEEL	55-95 LB. FT.
(1-2) 942578-SC	#8-32 X 5/8	GM 6010-M	GRP. #12 15-25 LB. IN.	T/S LEVER TO SW ASSEMBLY	
9420825-SC	5/16-18 X 9/16	GM 6010-M	GRP. #35G69 120-180 LB. IN.	STARTER CABLE BRACKET TO FRAME	
(1-2) 9422280-N	7/16-20 (LOCK)	GM 286-M	GRP. #35J50 45-55 LB. FT.	REAR STABILIZER TO LOWER ARM	
9418931-N	3/8-16	GM 286-M	GRP. #35J52 20-28 LB. FT.	MASTER CYLINDER TO POWER CYLINDER	
1932221-B	7/16-14 X 1 1/4	GM 300-M	GRP. #35J55 60-80 LB. FT.	BRAKE ASSEMBLY TO ADAPTER BRACKET	
423333-SC	1/4-20 X 3/8	SAE #1010 OR #1020	60-96 LB. IN.	BRACKET TO METERING VALVE	
9420825-SC	5/16-18 X 9/16	GM 6010-M	72-96 LB. IN.	BALANCE VALVE TO FRAME	
181451-B	9/16-18 X 1.00	GM 280-M	120-145 LB. FT.	ADAPTER TO KNUCKLE	
9419401-SC	5/16-18 X 5/8	GM 6010-M	108-156 LB. IN.	HOSE BRACKET TO ADAPTER	
396886-B	9/16-12 X 3.00	GM 300-M	110-140 LB. FT.	ADAPTER TO STEERING ARM TO KNUCKLE	
9418931-N	3/8-16	GM 286-M	20-28 LB. FT.	MASTER CYL. TO POWER CYL. (LANSING PLANT ONLY)	
1932221-B	7/16-14 X 1 1/4	GM 300-M	60-80 LB. FT.	BRAKE ASSEMBLY TO ADAPTER BRACKET	
181451-B	9/16-18 X 1.00	GM 280-M	120-145 LB. FT.	ADAPTER TO KNUCKLE	
396886-B	9/16-12 X 3.00	GM 300-M	110-140 LB. FT.	ADAPTER & STRG. ARM TO KNUCKLE	
9419401-SC	5/16-18 X 5/8	GM 6010-M	108-156 LB. IN.	HOSE BRACKET TO ADAPTER	
9418931-N	3/8-16	GM 286-M	20-28 LB. FT.	MASTER CYLINDER TO POWER CYLINDER (LANSING PLANT ONLY)	
423333-SC	1/4-20 X 3/8	SAE #1010 OR #1020	60-96 LB. IN.	BRACKET TO METERING VALVE	
9418994-B	3/8-16 X 1 1/4	GM 280-M	GRP. #35N10 10-18 LB. FT.	CAP TO MANIFOLD-R.H.	
114497-N	9/16-18	GM 286-M	GRP. #35N37 30-40 LB. FT.	STEERING WHEEL TO STEERING SHAFT	25-60 LB. FT.
580943-SC	#8-18 X .453	HARDENED STEEL	GRP. #35P02 30-40 LB. IN.	EMBLEM RETAINER TO DISC	
566357-N	9/16-18	STEEL	GRP. #35Y75 65-85 LB. FT.	WHEEL TO HUB (EXC. 54000)	55-95 LB. FT.

(1-2) ALSO SHOWN ON 400274 F-85 TORQUE WRENCH CHART.



SHEET 4

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
12-21-67	C	GROUP 35 POS REMOVED	CG	PM	7-13-67	F	GRP 35N40 REMOVED	PM	JA	6-67	A	GRP 35F42 REMOVED	PM	JA	6-67	A	GRP 35F42 REMOVED	PM	JA

CHART - WRENCH TORQUE (CHASSIS)

DATE	FIRST USED	MANUAL SECTION	PAGE
MARCH 8, 1967	1968	O	105
DR. BY	CHECKED	SERIES	PART NO.
PODNEY DAVIS	J. N. FAMES	B-C	400411
APPR.			
J. R. demand			

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

9-10000-00-000

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
162396-SC	#8-15 X .50	STEEL	12-18 LB. IN.	SEAL & RETAINER TO FLOOR (A-FS) (A-SM-HD FLOOR SHIFT)	
9419663-SC	#8-18 X .50	GM 6010-M	8-18 LB. IN.	NEUTRAL START & BACK-UP LAMP SWITCH TO SHIFT BRACKET (B-THM, A-THM, E-THM, JT WITH D55)	
9422561-SC	#8-18 X .50	GM 6010-M	8-18 LB. IN.	CLUTCH RELEASE ROD SEAL RETAINER TO DASH (B-SM)	
⑩ 9419320-SC	#10-16 X .38	GM 6010-M	★	THROTTLE SWITCH CABLE ASSY CLIP TO TRANSMISSION (A, B, C-JT, THM)	
423959-SC	#10-28 X .50	SAE #1010 OR #1020	12-18 LB. IN.	BACK-UP LAMP SWITCH TO BRACKET (A-FS) (A-SM-HD FLOOR SHIFT)	
9419400-SC	1/4-14 X .50	GM 6010-M	15-25 LB. IN.	DOWNSHIFT SWITCH BRACKET TO DASH (C) (B-THM)	
9419400-SC	1/4-14 X .50	GM 6010-M	25-35 LB. IN.	DOWNSHIFT SWITCH TO BRACKET (C) (B-THM)	
9419400-SC	1/4-14 X .50	GM 6010-M	25-35 LB. IN.	DOWNSHIFT SWITCH TO ACCEL. PEDAL LEVER BEARING (A-JT, THM)	
9419400-SC	1/4-14 X .50	GM 6010-M	30-60 LB. IN.	AUTO. THROTTLE CONTROL CABLE BRACKET TO EQUALIZER (B-THM, JT V8) (C) POWER BRAKES	
9419727-SC	1/4-14 X .62	GM 6010-M	30-60 LB. IN.	CONVERTER COVER PAN TO TRANSMISSION CASE (A-THM, JT) (B-THM, JT) (C)	
9419727-SC	1/4-14 X .62	GM 6010-M	30-60 LB. IN.	COOLER PIPE CLIP TO FRAME (E)	
⑨ 9419727-SC	1/4-14 X .62	GM 6010-M	30-60 LB. IN.	AUX. COOLER BRACKET TO RADIATOR SUPPORT ASSY. (B, C, D)	
9419727-SC	1/4-14 X .62	GM 6010-M	30-60 LB. IN.	SHIFT LEVER BRACKET TO SUPPORTS. (E)	
9419727-SC	1/4-14 X .62	GM 6010-M	30-60 LB. IN.	SOLENOID CLAMP TO BRACKET (A, B)	
9423329-SC	1/4-14 X .62	GM 6010-M	25-35 LB. IN.	AUTO. THROTTLE CONTROL REGULATOR BRKT. TO FILER PLATE (B-THM, JT) (C) & POWER BRAKES	
9423329-SC	1/4-14 X .62	GM 6010-M	15-25 LB. IN.	SHIFT LEVER BRACKET TO BODY (B-THM, A-THM, JT WITH D55)	
⑧ 9423329-SC	1/4-14 X .62	GM 6010-M	★	AUX. OIL COOLER PIPE CLAMP TO RADIATOR SIDE BARFLE (A)	
9420878-SC	1/4-14 X 1.25	GM 6010-M	15-25 LB. IN.	ACCEL. PEDAL LEVER BEARINGS TO DASH (A)	
106962-B	1/4-20 X .38	GM 260-M	48-72 LB. IN.	FLYWHEEL HOUSING COVER TO TRANS. CASE (E)	
423333-SC	1/4-20 X .38	SAE #1010 OR #1020	48-72 LB. IN.	EXTENSION TO REINFORCEMENT (E)	

★ MUST BE FULLY DRIVEN, SEATED, AND NOT STRIPPED

SHEET 1 OF 6

TITLE				CHART - WRENCH TORQUE (TRANS)			
DATE	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
4-15-68	U			1968		0	107
10-25-67							
5-19-67	S						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION

SERIES
ABCE

PART NO.
400733

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
9418967-B	3/8-16 X .75	GM 280-M	20-30 LB. FT.	SHIFT ASSY SUPPORT TO TRANS. (A-FS, A-SM-HD FLOOR SHIFT)	
9418967-B	3/8-16 X .75	GM 280-M	20-30 LB. FT.	OUTER SHIFT LEVERS TO TRANS. (A-SM EXC. FLOOR SHIFT)	
9418967-B	3/8-16 X .75	GM 280-M	20-30 LB. FT.	RELAY BELCRANK BRACKET TO MANIFOLD (AUTO. THROTTLE CONTROL) (A-JT, THM) (G)	
9418967-B	3/8-16 X .75	GM 280-M	20-30 LB. FT.	AUTOMATIC THROTTLE CONTROL REGULATOR BRKT. TO CYLINDER HEAD (E)	
9418967-B	3/8-16 X .75	GM 280-M	20-30 LB. FT.	AUTOMATIC THROTTLE CONTROL SERVO BRKT. TO CYL. HEAD (A-THM, JT V8) & POWER BRAKES (A-SM-HD FLOOR SHIFT)	
9418821-B	3/8-16 X .88	GM 280-M	20-30 LB. FT.	FINAL DRIVE REAR PINION BEARING TO HOUSING (E)	
838653-B	3/8-16 X 1.00	GM 280-M	14-17 LB. FT.	CLUTCH COVER ASSY TO FLYWHEEL (A, B-SM)	
179841-B	3/8-16 X 1.25	GM 280-M	20-30 LB. FT.	TRANSMISSION CASE TO FINAL DRIVE (E)	15-35 LB. FT.
3828782-B	3/8-16 X 1.25	GM 280-M	20-30 LB. FT.	CLUTCH HOUSING ASSY TO CYL. BLOCK (A-SM L6 REF. J)	
179842-B	3/8-16 X 1.38	GM 280-M	20-30 LB. FT.	TRANS. TO CYLINDER BLOCK (E, C, B-THM, JT, (G) A-THM, JT)	
179842-B	3/8-16 X 1.38	GM 280-M	20-30 LB. FT.	FLYWHEEL HOUSING TO CYLINDER BLOCK (B-SM) (A-SM V8) (A-JT)	
9413313-B	3/8-16 X 3.50	GM 300-M	35-45 LB. FT.	L. H. OUTPUT SHAFT TO SIDE GEAR (E)	
394434-STUD	3/8-16 X 1.50 SPECIAL	GM 280-M	20-30 LB. FT.	TRANSMISSION CASE TO FINAL DRIVE (E)	
9418931-N	3/8-16	GM 286-M	(F) 10-20 LB. FT.	SOLENOID BRACKET & CABLE BRACKET TO MANIFOLD (L6) COVER TO TRANS. (A-JT L6)	
9418931-N	3/8-16	GM 286-M	16-26 LB. FT.	SHIFT ASSY TO SUPT. & TRANS. (A-FS, A-SM-HD FLOOR SHIFT)	
9418931-N	3/8-16	GM 286-M	16-26 LB. FT.	SHIFT ASSY TO SUPT. & TRANS. (A-FS, A-SM-HD FLOOR SHIFT)	
9418931-N	3/8-16	GM 286-M	16-26 LB. FT.	SHIFT CABLE PIN TO OUTER SHIFT LEVER (B-THM, (G) A-THM, JT WITH D55)	
9418931-N	3/8-16	GM 286-M	16-26 LB. FT.	OUTER SHIFT LEVER TO TRANS. (C, B-THM, JT A-THM, JT EXC. D55 A-THM, JT WITH D55)	
124829-N	3/8-16	GM 286-M	16-26 LB. FT.	CLUTCH FORK PUSH ROD TO EQUALIZER LEVER (A-SM, FS)	
124829-N	3/8-16	GM 286-M	16-26 LB. FT.	LOWER CLUTCH RELEASE ROD TO EQUALIZER LEVER (B-SM)	
9422277-N	3/8-16	GM 286-M	16-26 LB. FT.	CLUTCH PEDAL ARM ASSY TO PEDAL SUPPORT BRKT. (B-SM)	
9419815-N	3/8-24	GM 286-M	20-30 LB. FT.	TRANS. CASE TO FINAL DRIVE (E)	
9420821-N	3/8-24	GM 286-M	120-180 LB. IN.	OUTER SHIFT LEVERS TO TRANS. (B-SM, A-FS, A-SM-HD FLOOR SHIFTS)	
9420821-N	3/8-24	GM 286-M	16-26 LB. FT.	SOLENOID BRACKET TO MANIFOLD STUD (L6)	
392966-N	3/8-24	LEDLOY 375	(B) 30-50 LB. IN.	SHIFT KNOB TO SHIFT LEVER (A-FS, A-SM-HD FLOOR SHIFT)	
392967-KNOB	3/8-24	PATTERN PLASTIC	(B) 30-50 LB. IN.	KNOB SHIFT LEVER (A-FS EXC. D55)	
395796-KNOB	3/8-24	PLAIN BLACK PLASTIC	(B) 30-50 LB. IN.	KNOB SHIFT LEVER (A-FS WITH D55 A-SM-HD FLOOR SHIFT)	

DATE				SYM				REVISION				DR. CK.			

TITLE		CHART - WRENCH TORQUE (TRANS)		MANUAL SECTION	PAGE
DATE	DR. BY	FIRST USED	OLDSDMOBILE PRODUCT INFORMATION MANUAL	0	110
MARCH 15, 1967	RODNEY DAVIS	1968			
CHECKED	W. L. WASS	REF.	SERIES	PART NO.	
			ABCE	400733	

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

S. KAMMOLL, INC. 49866

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
579856	1/2-20	FLARED TUBE NUT-STEEL	20-30 LB. FT.	OIL COOLER PIPE TO RADIATOR AND TO CONNECTOR AT TRANSMISSION (E)	
1377447-PLUG	5/8-18	SAE #1012 THRU #1022 OR SAE #1111 THRU #1120	25-35 LB. FT.	DRAIN PLUG FINAL DRIVE HOUSING COVER (E)	
3729000-STUD	13/16-16	CD STEEL SAE #B-1112	35-45 LB. FT.	CLUTCH RELEASE FORK BALL STUD (A, B-SM)	
544456-N	7/8-14	GM 286-M	TORQUE TO GIVE PINION GEARING PRE-LOAD OF 24-32 LB. IN. INCLUDING SEAL DRAG	REAR AXLE DRIVE PINION (A, B, C)	

SHEET 6

TITLE										CHART - WRENCH TORQUE (TRANS)										
DATE <i>MARCH 17, 1967</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE				
DR. BY <i>RODNEY DAHS</i>										1968		INFORMATION MANUAL		O		112				
CHECKED <i>V.L. WEISS '64</i>										REF.		SERIES		PART NO.						
APPR.												ABCE		400733						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

A. CARROLL, INC. 7799-

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
----------	-------------	----------	-----------------------------------	-------------	--------------------------------

9419334	1/4 - 20	GM 284-M	48 - 72 LB. IN. 60 - 96 LB. IN.	INSTRUMENT PANEL TO UPPER TIE BAR PAD ASSY TO INSTRUMENT PANEL UPPER	
9419727	1/4 - 14 X 5/8	GM 6010-M	25 - 35 LB. IN.	INST. PANEL ASSY TO INST. PANEL SUPPORT CLAMP TO CONDENSER ASSY BRACKET TO LOWER RADIATOR SUPPORT	
9419565	1/4 - 20 X 5/8	GM 280-M	60 - 96 LB. IN.	PAD ASSY TO BRACKETS BRACKETS TO SIDE SHROUDS	
9414753	8 - 18 X 5/8	GM 6010-M	15 - 20 LB. IN.	CONTROL PANEL TO INSTRUMENT PANEL	
9419751	1/8	SPRING STEEL	10 - 15 LB. IN.	BRACKET TO BEZEL	
274329	8 - 32		15 - 20 LB. IN.	DUCT ASSY TO PANEL	
7279805	7/16 - 28	GM 280-M	36 - 72 LB. IN.	RADIO MOUNTING	
565842	10 - 32 X 5/8	SAE 1010 OR 1020	40 - 50 LB. IN.	MIRROR TO SUPPORT	
4476469	10 - 24 X 1/2	GM 275-M	15 - 20 LB. IN.	SUN VISOR TO SUPPORT R. H.	
399513	1/4 - 28 X 9/32	SAE 1010 OR 1020	25 - 40 LB. IN.	OUTSIDE MIRROR TO DOOR	
9419906	3/8 - 16 X 1 1/8	GM 275-M	20 - 30 LB. FT.	SPEEDO CABLE COUPLING NUT TO SPEEDOMETER SPEEDO CABLE COUPLING NUT TO CRUISE CONTROL REGULATOR	
389741	3/8 - 16 X 1 1/8	GM 275-M	20 - 30 LB. FT.	FENDER ASSY TO BODY UPPER FENDER ASSY TO SHROUD	
9780422	5/16 - 18 X 3/4	GM 275-M	15 - 22 LB. FT.	FENDER ASSY TO BODY LOWER	
				FILLER TO FENDER REINFORCEMENT HEADLAMP TO SIDE BAFFLE FAN SHROUD TO LOWER BRACKET RADIATOR BAFFLE ASSY TO SUPPORT ASSY UPPER RADIATOR BAFFLE ASSY TO FAN SHROUD FENDER TIE BAR TO FENDER ASSY FRONT & REAR BRACKET TO BODY HOOD INNER PANEL TO HOOK LATCH ASSY TO RADIATOR SUPPORT ASSY HOOD LATCH SUPPORT ASSY TO LOWER TIE BAR RADIATOR SIDE SUPPORT ASSY TO LOWER TIE BAR GRILLE TO SIDE BAFFLE PANEL FRONT END CENTER TO REINFORCEMENT LOWER PANEL FRONT END CENTER TO REINFORCEMENT CENTER SUPPORT TO BRAKE BRACKET CRUISE CONTROL BRKT. TO FILLER PLATE (K) PILOT TO HOOD	
124934	1/2 - 20	GM 286-M	25 - 35 LB. FT.	GROUND STRAP TO BLOCK	
122104	3/8 - 16 X 5/8	GM 280-M	10 - 20 LB. FT.	BATTERY TERMINAL	
121743	12 - 24	GM 284-M	(N) 30 - 40 LB. IN.	GROUND WIRE TO UNDERBODY	
3837950	10 - 16 X 5/16	GM 6010-M	20 - 25 LB. IN.	BRACKET TO PRIMARY BAR (FRONT & REAR) EXTENSION & REINE. TO FRONT PRIMARY BAR OUTER BRACE TO EXTENSION (FRONT) OUTER BRACE TO JOINT LINE (FRONT) CENTER BRACE TO PRIMARY BAR (FRONT & REAR) REAR BUMPER BRACE TO BRACKET TAPE PLAYER TO CASE	
9418897	7/16 - 14	GM 286-M	20 - 30 LB. FT.	FENDER TO FENDER EXTENSION CORNERING LAMP ASSY TO FENDER LOWER BRACE TO CORNERING LAMP UPPER BRACE TO CORNERING LAMP	
(L) 396987	3/8 - 32	SAE 1008 OR 1010	36 - 72 LB. IN.		
(M) 9414247	1/4 - 20 X 5/8	GM 275-M	35 - 45 LB. IN.		

SHEET 1 OF 2

3-25-68		N	WAS 20-25 LB. IN.	LG	3-25-68	H	WAS SHEET 1 OF 1	42	3-25-68	O	WAS 48-84 LB. IN.	62	3-25-68	B	WAS 15-22 LB. FT.	62	3-25-68	F	396785 ADDED	65	3-25-68	A	WAS PAGE III	65
103067	M	9414247	ADDED	62	3-25-68	G	REV & REDRAWN	42	3-25-68	B	WAS 15-22 LB. FT.	62	3-25-68	F	396785 ADDED	65	3-25-68	A	WAS PAGE III	65	3-25-68	A	WAS PAGE III	65
103067	L	396987	NUT ADDED	KL	3-25-68	F		65	3-25-68	A	WAS PAGE III	65	3-25-68	A	WAS PAGE III	65	3-25-68	A	WAS PAGE III	65	3-25-68	A	WAS PAGE III	65

CHART - WRENCH TORQUE (BODY)

FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	O	PAGE	113
DATE	MARCH 23, 1967	DR. BY	RODNEY DAVIS	CHECKED	J. FINES	
SERIES	B-C	PART NO.	401013			

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

R. GARROLL, INC. 0975

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
9419301	3/8 - 16 X 1 3/16	GM Z75-M	20 - 30 LB. FT.	HOOD HINGE TO FENDER ASSY HOOD HINGE TO HOOD	
1359887	5/16 - 18	GM 286-M	25 - 35 LB. IN. 10 - 12 LB. FT.	CONDENSER TO SUPPORT ASSY GRILLE TO STONE SHIELD	(A) (B)
9422273	1/4 - 20	GM 286-M	40 - 60 LB. IN.	HOOD RELEASE LEVER TO LATCH SUPPORT	
9422299	7/16 - 14	GM 301-M	30 - 45 LB. FT.	SUPPORT ASSY TO FRAME	
9422277	3/8 - 16	GM 286-M	30 - 40 LB. FT.	RADIATOR LOWER SUPPORT TO FRAME	
9427411	1/4 - 14 X 5/8	GM 601D-M	25 - 35 LB. IN.	DEFLECTOR TO LOWER RADIATOR SUPPORT	
9422275	5/16 - 18	GM 286-M	60 - 120 LB. IN.	CRUISE CONTROL BRACKET TO FILLER PLATE	
9423329	1/4 - 14 X 5/8	GM 601D-M	25 - 35 LB. IN.	CRUISE CONTROL BRACKET TO FILLER PLATE	
9421485	8 - 18 X 5/8	GM 601D-M	10 - 15 LB. IN.	UNDER HOOD LAMP TO HOOD	
3796202	1/2 - 13	GM 301-M	55 - 80 LB. FT. 25 - 35 LB. FT. 45 - 55 LB. FT.	FRONT & REAR BUMPER BRACKET TO FRAME FRONT CENTER BRACE TO FRAME FRONT BUMPER OUTER BRACE TO FRAME	
390314	CLAMP ASSY		18 - 26 LB. IN.	RADIATOR OUTLET HOSE	
569335	CLAMP ASSY		18 - 26 LB. IN.	RADIATOR OUTLET HOSE-ENGINE	
400496	CLAMP ASSY		18 - 26 LB. IN.	RADIATOR INLET HOSE	
9417954	5/16 - 18	GM 286-M	15 - 22 LB. FT.	HOOD BUMPER TO SHROUD PANEL	
3933052			45 - 60 LB. IN.	HOOD FRONT BUMPER TO SUPT. ASM. WINDSHIELD WIPER TRANS. ASSY TO BODY	(C)
3824124	10 - 24	C-1010 OR C-1020	35 - 45 LB. IN.	WINDSHIELD WIPER MOTOR ATTACHING	
115573	3/8 - 16	GM 286-M	60 - 120 LB. IN.	BATTERY CABLE TO STARTER SOLENOID BATTERY & WIRING CABLE TO JUNCTION BLOCK	
9418918	5/16 - 18 X 1.00	GM 280-M	8 - 12 LB. FT.	BATTERY RETAINER TO TIE BAR	
9411638	5/16 - 18	GM 284-M	40 - 50 LB. IN.	BATTERY RETAINER (REAR)	
9415988 OPT.	5/16 - 18	GM 286-M	40 - 50 LB. IN.	BATTERY RETAINER (REAR)	
9419028	5/16 - 18 X 7/16	GM 280-M	12 - 18 LB. FT.	STEERING COLUMN BRKT. TO STEERING COLUMN	
1378333	3/8 - 16	GM 286-M	15 - 25 LB. FT.	STEERING COLUMN BRACKET TO INSTRUMENT PANEL & BRAKE BRACKET	
9420065	1/4 - 14 X 1	GM 601D-M	30 - 45 LB. IN.	TOE PAN COVER INNER TO OUTER	
9425451	1/4 - 14 X 3/8	GM 601D-M	30 - 45 LB. IN.	TOE PAN COVER TO TOE PAN	
	AIR CONDITIONING		5 - 7 LB. FT.	OIL BLEED LINE TO P.O.A. EQUALIZER LINE TO P.O.A.	
			11 - 15 LB. FT.	LIQUID LINE TO RECEIVER RECEIVER TO EXPANSION VALVE	
			15 - 20 LB. FT.	DISCHARGE HOSE & MUFFLER ASSY TO CONDENSER	
			28 - 33 LB. FT.	SUCTION HOSE TO P.O.A. VALVE P.O.A. VALVE TO EVAPORATOR	
			20 - 25 LB. FT.	ATTACHING BOLT ON COMPRESSOR FOR SUCTION AND DISCHARGE HOSE ASSEMBLIES	

ALL #8 SCREWS DRIVEN INTO PLASTIC
PARTS USE 15-20 LB. IN. TORQUE

ALL 5/16-18 SCREWS (9780422) DRIVEN
INTO PIERCE OR "J" NUTS USE 15-22
LB. FT. TORQUE.

DATE				SYM				REVISION				DR. CK.				DATE				SYM				REVISION				DR. CK.			
TITLE		CHART - WRENCH TORQUE (BODY)		DATE		FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC.		PAGE		DATE		SYM		REVISION		DR. CK.		DATE		SYM		REVISION		DR. CK.			
10306 D		9418247 REMOVED		AUGUST 25, 1967		1968		O		114		10306 C		USAGE ADDED		10306 B		USAGE REMOVED		101167 A		APPLICATION REMOVED									
DR. BY		R.B. STANLAKE		CHECKED		J. FINES		SERIES		B-C		PART NO.		401013																	

578836-PLATE (LANSING PLANT ONLY)
578836-PLATE (BLANK) (LANSING PLANT ONLY)

3865853- PLATE (MUST FACE IN DIRECTION SHOWN. ALIGN WITH INDEX MARKS.) SEE SAMPLE PLATE (EXC. CKD, SUP & LANSING PLANT)

TRIM NO. (3 DIGITS) & COLOR CODE (USE TOP NUMBER IN PLACE OF SECOND COLOR LETTER ON CONVERTIBLES OR CARS WITH C08 VINYL TOP)

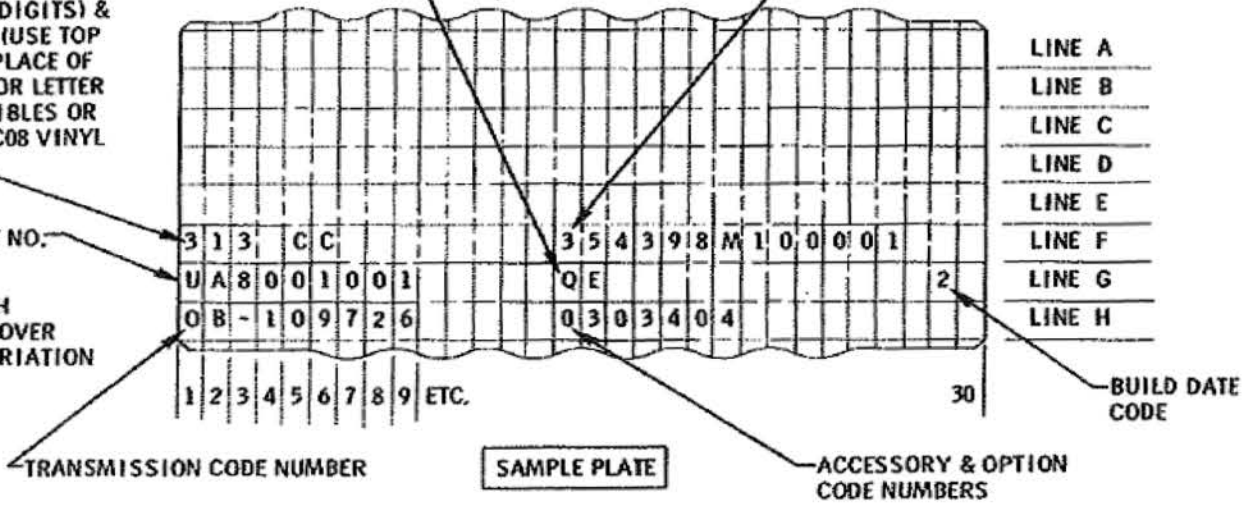
AXLE CODE (SEE REAR AXLE USAGE CHART)

VEHICLE IDENTIFICATION NUMBER

ENGINE UNIT NO.

PLATE MUST BE FLUSH WITH END OF BOOK COVER IRRESPECTIVE OF VARIATION OF GUMMED TAPE.

REMOVE TAPE COVER EXPOSING GUMMED TAPE



EACH BOOK TO HAVE VEHICLE IDENTIFICATION NUMBER PERFORATED THRU ALL PAGES EXCEPT BACK COVER AS SHOWN USING A CUMMINS CHICAGO CORPORATION MODEL 374 QUIK SET PERFORATOR

(J) 400855-BOOK-OWNER PROTECTION (EXC. CKD, SUP & CANADIAN EXPORT)
(K) 731038-BOOK-OWNER PROTECTION (CANADIAN EXPORT ONLY)

ADDRESSOGRAPH STYLE NUMBER 35 OR EQUIVALENT TO BE USED FOR EMBOSsing CAR DATA.

AFTER REMOVAL OF TAPE COVER ON INSIDE FACE OF REAR COVER OF BOOKLET, INSTALL PROTECT-O-PLATE WITH RAISED TYPE FACING UP.

LOWER HALF OF PLATE NUMBER 3865853 TO BE EMBOSSED AS ILLUSTRATED BY ASSEMBLY PLANTS, AND PLATE ATTACHED TO INSIDE OF BACK COVER OF OWNER PROTECTION PLAN BOOK (SEE ILLUSTRATION) UPPER HALF OF PLATE TO REMAIN BLANK (NOT EMBOSSED).

SERIAL NUMBER ON PLATE MUST CORRESPOND TO SERIAL NUMBER ON CAR IN WHICH OWNER PROTECTION POLICY IS PLACED.

BUILD DATE CODE LETTERS

AUG.	8	FEB.	2
SEPT.	9	MAR.	3
OCT.	0	APR.	4
NOV.	N	MAY	5
DEC.	D	JUNE	6
JAN.	1	JULY	7

TOP COLOR FOR CONVERTIBLES OR C08 VINYL TOP

- 1 - WHITE
- 2 - BLACK
- 4 - BLUE
- 6 - PARCHMENT
- 8 - GOLD

ALL PLANTS

ACCESSORY AND OPTION CODE NUMBERS

CODE NUMBER CALLED OUT ON BROADCAST FORM FOR LISTED COLUMNS SHOULD BE COPIED ON PLATE, LINE H. IF NO NUMBER APPEARS A ZERO ("0") MUST BE USED, SEVEN (7) DIGITS MANDATORY.

COLUMN NUMBER	ACCESSORY	OPTION CODE	CODE STAMPED
55	CRUISE CONTROL ADD CODE FOR COMB.	K30	1 3, 5, 7
40	POWER STEERING POWER BRAKE ADD CODE FOR COMBINATION DISC BRAKES ADD CODE FOR COMBINATION	N40 J50 N40 & J50 J52 N40 & J52	1 2 3 4 5
43	T & T STEERING ADD CODE FOR COMB.	N37 N37 & U35	2 6
46	DELUXE RADIO AM-FM RADIO WITH SIGNAL SEEKER AM-FM STEREOHONIC RADIO	U63 U59 U58	1 2 3
47	STEREO TAPE PLAYER ADD CODE FOR COMB.	U57 U57 & U75	4 5
49	AIR CONDITIONER COMFORTRON HEAVY DUTY ENGINE COOLING ADD CODE FOR COMB.	C60 C61 Y72	1 2 4 5, 6
52	ELECTRIC 4 WINDOW LIFTS VACUUM DOOR LOCKS ADD CODE FOR COMBINATION	A31 A93	1 4 3, 5, 6, 7

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	INSTALLATION PROTECT-O-PLATE	MANUAL SECTION	PAGE										
10-5-67	K	WAS 3A06214	GG	PM	3-21-67	E	PART NO. ADDED	PM	DT																									
10-5-67	J	WAS 400855	GG	PM	3-21-67	D	ENGINE NO REVISED	PM	DT																									
8-25-67	H	VIEW ADDED	PM	J	3-15-67	C	OPTION ADDED	PM	DT																									
7-29-67	G	CHART REVISED	GG	PM	3-6-67	B	VIEW ADDED	PM	DT																									
1-16-67	F	REDRAWN & REVISED	PM	H	2-15-67	A ₂	PART NO'S. ADDED	PM	DT																									
																						DATE	DEC. 23, 1966	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	0	PAGE	115	SERIES	B-C	PART NO.	398163

1. **VEHICLE IDENTIFICATION NUMBER:**
ON EMBOSSED PLATE LOCATED ON THE BODY LEFT HAND UPPER INSTRUMENT PANEL. SEE SECTION "O", CHART 400254, PAGE 116 FOR VEHICLE PLATE STARTING SERIAL NUMBERS.
2. **ENGINE UNIT NUMBER:** (FOR MANUFACTURING AND SERVICE USE)
UNIT NUMBER IS STAMPED ON THE ENGINE OIL FILL TUBE. THE ENGINE CODE TAPE IS INSTALLED DIRECTLY ABOVE THE ENGINE NUMBER. THE COMPLETE ENGINE NUMBER SHALL CONSIST OF THE ENGINE CODE FOLLOWED BY THE SEVEN DIGIT NUMBER.
STARTING ENGINE UNIT NUMBERS: SEE SECTION 6-1, CHART 400960, PAGE 102.
EXAMPLE: UA8001001

3. **TRANSMISSION UNIT NUMBERS (FOR MANUFACTURING AND SERVICE USE)**
(A) MANUAL TRANSMISSION (3 - SPEED) - SERIAL PLATE LOCATED ON R. H. SIDE OF THE CASE.

EXAMPLE: HEGAB (MODEL CODE)
01001 (SERIAL NO. - CONSECUTIVE STARTING WITH 01001)

JETAWAY TRANSMISSION YEAR, MODEL AND DATE CODE INFORMATION IS STAMPED ON THE BAND SERVO COVER WHICH IS LOCATED ON THE R.H. SIDE OF THE TRANSMISSION. THIS INFORMATION CONSISTS OF TWO DIGITS FOR THE MODEL YEAR, TWO LETTERS FOR THE MODEL CODE, THREE DIGITS TO INDICATE THE DAY OF PRODUCTION THAT THE TRANSMISSION WAS BUILT AND N OR D TO INDICATE NIGHT OR DAY SHIFT.

TURBO HYDRAMATIC TRANSMISSION SERIAL NUMBER IS STAMPED ON A PLATE LOCATED ON THE RIGHT HAND SIDE OF THE CONVERTOR HOUSING.

EXAMPLES: 680F1001, 680C1001, 680B1001, ETC.

FOR MODEL CODE AND TRANSMISSION USAGE, SEE SECTION "7" CHART 400752, PAGE 100.

4. **REAR AXLE ASSEMBLY NUMBERS (FOR MANUFACTURING AND SERVICE USE)**
A. DATE CODE IS STAMPED ON THE COMPANION FLANGE SHIELD. MONTH IS CODED AND ACTUAL NUMBER IS USED FOR THE DAY BUILT.

DATE CODE		
A = JANUARY	E = MAY	K = SEPTEMBER
B = FEBRUARY	G = JUNE	L = OCTOBER
C = MARCH	H = JULY	M = NOVEMBER
D = APRIL	J = AUGUST	N = DECEMBER

EXAMPLE: AXLE BUILT OCTOBER 11 WOULD BE STAMPED L11.

- B. RATIO CODE IS STAMPED ON THE REAR OF THE R.H. AXLE TUBE ADJACENT TO THE CARRIER. SEE SECTION 4 CHART 398500 PAGE 105 FOR CODES AND RATIO.

5. **PROTECTIVE NUMBERS:**
A. THE LAST EIGHT (8) SYMBOLS OF THE VEHICLE NUMBER ARE STAMPED AT SEVERAL LOCATIONS ON EVERY CAR.
LOCATIONS OF THIS NUMBER MAY BE OBTAINED BY CONTACTING EITHER OF THE FOLLOWING OFFICES: PRODUCTION MANAGER OR STANDARDS ENGINEER, LANSING, MICHIGAN

- B. IN ADDITION TO THESE CONFIDENTIAL NUMBERS, EACH VEHICLE ENGINE AND TRANSMISSION MUST BE STAMPED WITH A DERIVATIVE OF THE VEHICLE IDENTIFICATION NUMBER. THIS NUMBER OMITTS THE SERIES AND BODY STYLE FROM THE VEHICLE IDENTIFICATION NUMBER AS FOLLOWS:

VEHICLE IDENTIFICATION NUMBER - 354698M100001 OR 356698M100001
ENGINE AND TRANSMISSION PROTECTIVE NUMBER - 38M100001

SEE SECTION "O", CHART 398162-3-4 PAGE 170 FOR LOCATION ON EACH COMPONENT.

														TITLE				
														CHART - VEHICLE IDENTIFICATION				
														DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
														MAY 23, 1967	1968		0	117
														DR. BY DON MALKIN				
														CHECKED / APPROVED				
														APPR. / APPROVED				
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	REF.	SERIES	PART NO.
																	B-C	398163

MATERIALS TO BE PLACED IN GLOVE BOX, IF APPLICABLE		
PART NUMBER	DESCRIPTION	GROUP
400858	OWNERS OPERATION MANUAL	"0"
3406204	OWNERS OPERATION MANUAL	96-0
400855	OWNER PROTECTION POLICY BOOK	"0"
731038	OWNERS PROTECTION POLICY BOOK	96-0
(V) 401582	CHECK SHEET - PRE-DELIVERY (2 REQ'D)	"0"
7034679 (1)	KEY - DOOR & IGNITION	1A1
7034701 (1)	KEY - GLOVE BOX, TRUNK & CONSOLE	1A1
7792216	POWER FOLDING TOP GUIDE BOOK (CONVERTIBLE)	"0"
401172	LICENSE PLATES PARTS PACKAGE	14C
402963	CARD-SHOULDER BELT STOWAGE (EXC. CONV.)	1A2E
401668	ALBUM - STEREO TAPE	35U57
3171538	SUPERLIFT - OWNERS GUIDE	35066
(W) 3937278	BOOKLET-C. C. S.	"0"

(CANADIAN CARS ONLY)

(CANADIAN CARS ONLY)

MATERIALS TO BE PLACED IN TRUNK IF APPLICABLE			
PART NO.	DESCRIPTION	GROUP	PACKAGING SPEC. NO.
399472	WHEEL DISCS	10B	S-1579 AND S-1598
398936	TIRE VALVE EXTENSION PACKAGE		
399462	WHEEL DISCS (DELUXE)	35N94	
397932	TIRE VALVE EXTENSION PACKAGE		
399466	WIRE WHEEL COVERS	35N95	
397932	TIRE VALVE EXTENSION PACKAGE		
399340	WHEEL DISCS (DELUXE)	35P02	
397932	TIRE VALVE EXTENSION PACKAGE		
390577	HUB CAP ASSEMBLY	35J52, J55 PE1, P28, QD3	
589724	ANTENNA MAST	35U58-59-63	
(X) 400948	LICENSE PLATE SUPPORT (FRONT)	14C	
★★	FRONT FLOOR MATS (AUXILIARY)	35B32	
★	REAR FLOOR MATS (AUXILIARY)	35B33	
388416	FILLER - FRONT SEAT BACK (PAPER TISSUE & TOWEL PACKAGE) 98 LUXURY SEDAN ONLY	1A2E	
396957	LUGGAGE COMPARTMENT MAT	35B36	

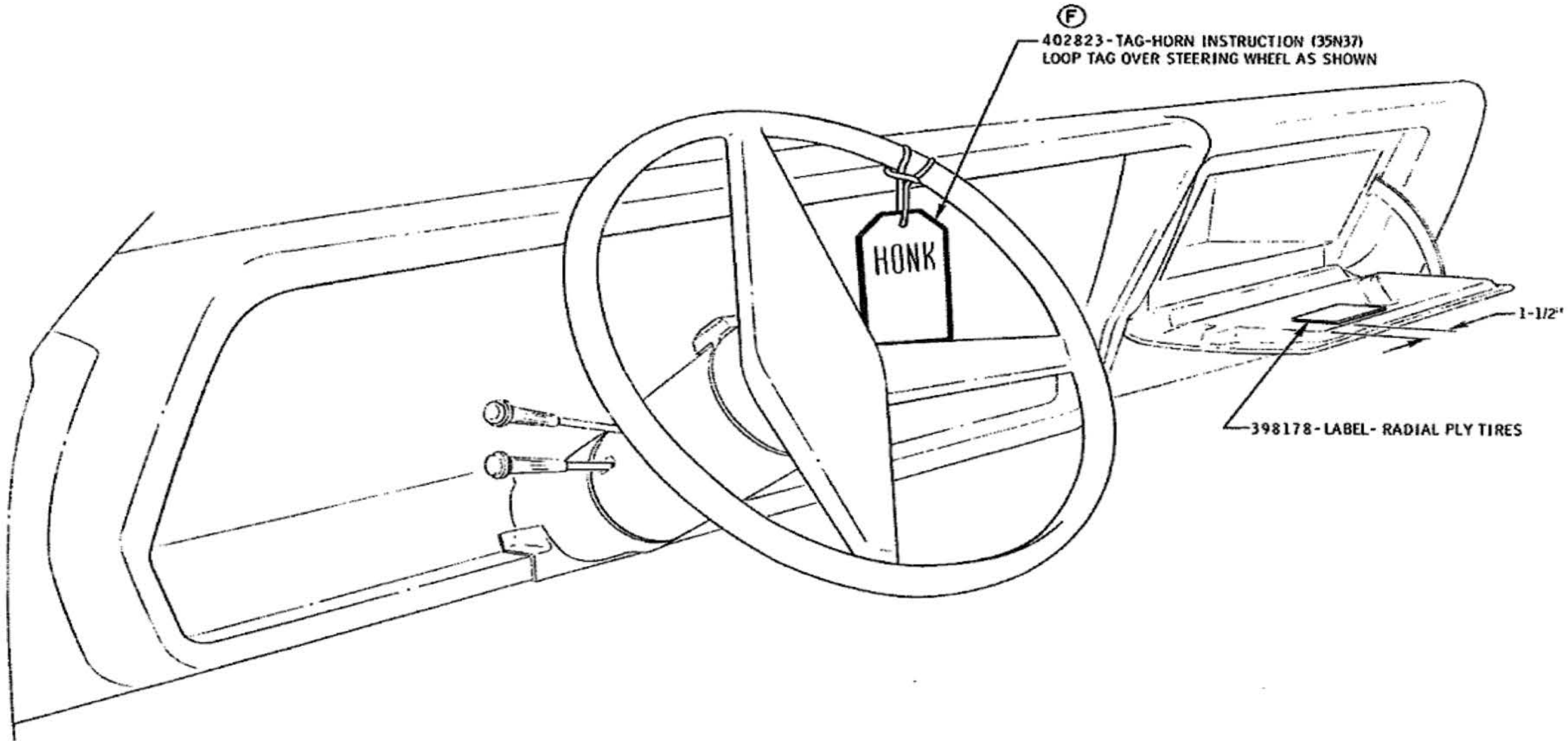
(1) INSERT THESE ITEMS TOGETHER IN 3933878- ENVELOPE

NOTE: PACKAGING SPECIFICATIONS ARE ISSUED BY METHODS PACKAGING DEPT.

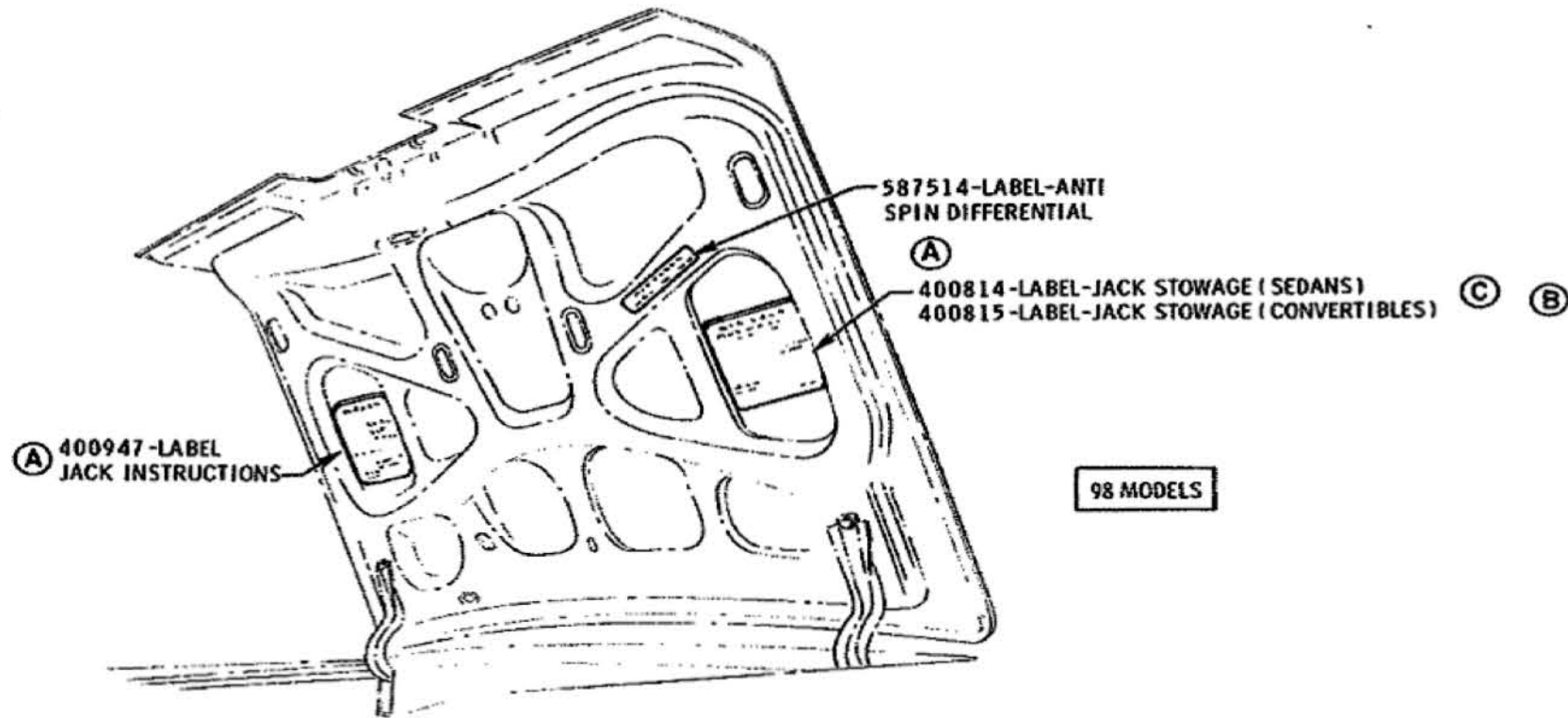
★★ SEE CHART 387900 FOR PART NUMBERS AND COLORS

★ SEE CHART 383448 FOR PART NUMBERS AND COLORS

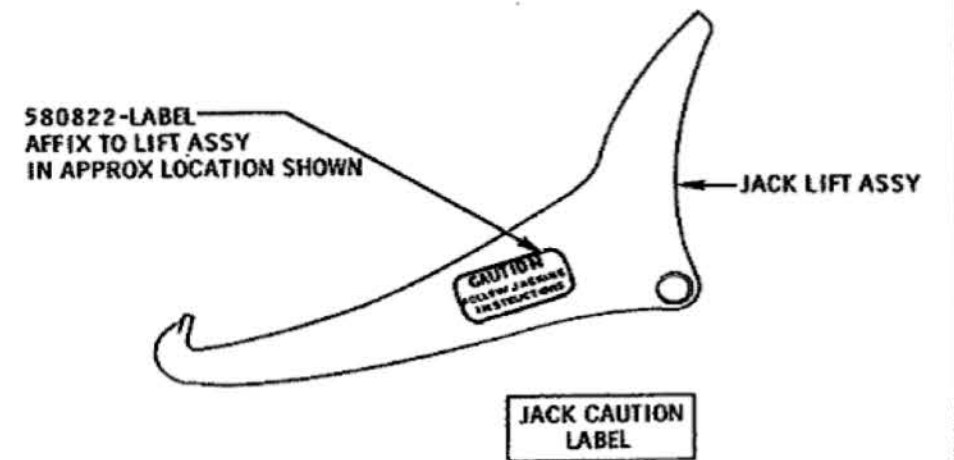
										1-31-68	V	WAS 396516 CHECK SHEET	SE	DT	TITLE					LOOSE PARTS STOWAGE					
										1-25-68	U	NOTE REMOVED	SE	DT	DATE DEC. 19, 1966					FIRST USED					
										1-10-68	T	402963 CARD ADDED	SE	DT	DR. BY P.J. McKASSY					1968					
										1-19-68	X	WAS 588584 SUPPORT	PL	DT	CHECKED J.T.M.					OLDSMOBILE PRODUCT INFORMATION MANUAL					
										1-31-68	W	3182686 WARR. CARD REMOVED	PL	DT	APPR.					MANUAL SECTION 0					
										1-31-68	R	CHART REVISED	PL	DT	REF.					PAGE 120					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	SERIES B-C					PART NO. 398163				



														12-12-67	E	REVISED & REDRAWN	DR.				TITLES		LABELS AND TAGS						
														6-8-67	D	NOTE REMOVED	DR.				DATE	FEB 2, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SECTION	0	PAGE	121
														6-8-67	C	WAS 397562-1RPEW	SP				DR. BY	B. PARKER		OLDSDMOBILE INFORMATION MANUAL					
														4-3-67	B	VIEW REMOVED - TRAYS CANCEL	DR.				CHECKED	TRAIL			SERIES	B-C	PART NO.	398163	
														12-12-67	F	402823-TAG ADDED	DR.				APPR.		REF. 35N37, 35Q03						
														3-23-67	A	FUEL TAG NO. REMOVED	DR.												
DATE	SYM			REVISION	DR. CK.	DATE	SYM			REVISION	DR. CK.	DATE	SYM			REVISION	DR. CK.	DATE	SYM	APPR.									

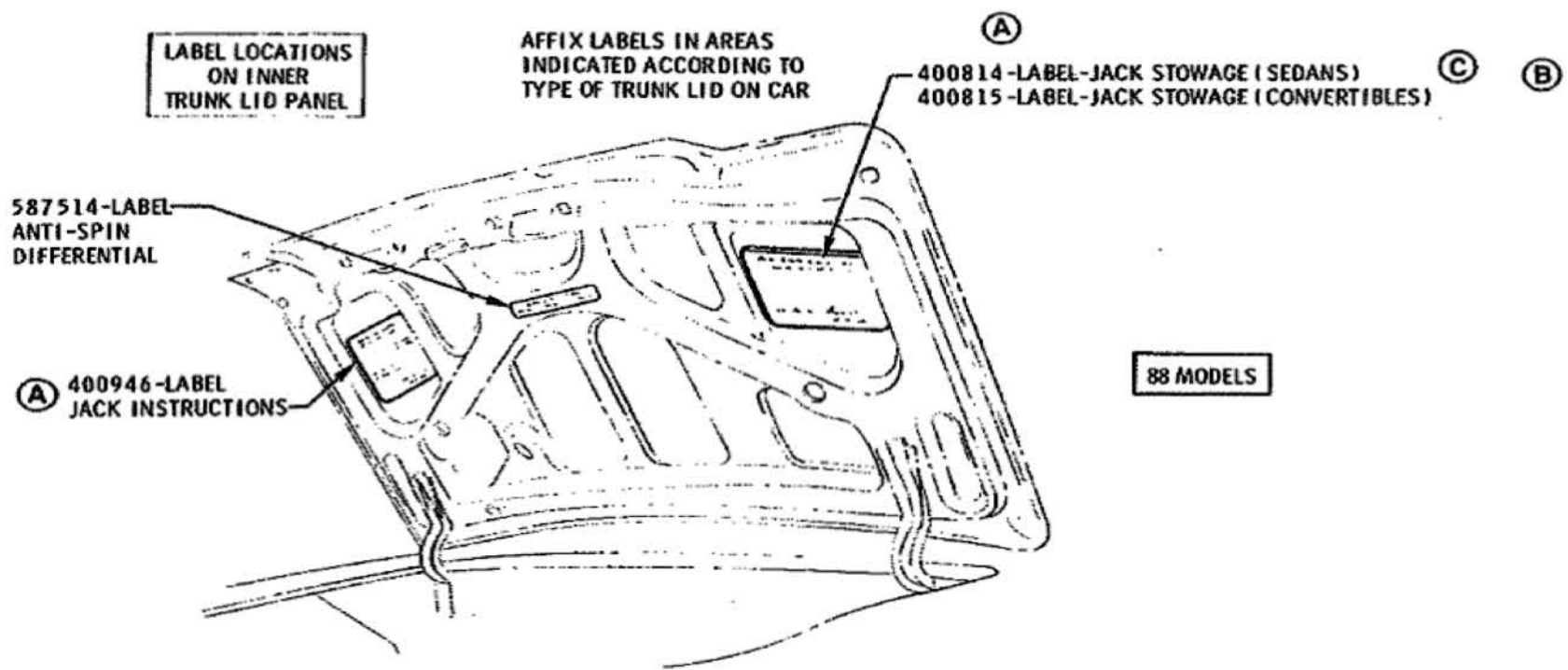


98 MODELS



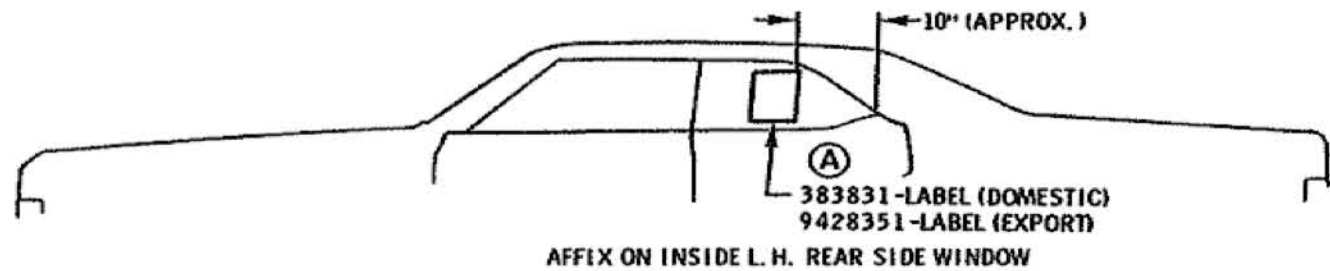
LABEL LOCATIONS ON INNER TRUNK LID PANEL

AFFIX LABELS IN AREAS INDICATED ACCORDING TO TYPE OF TRUNK LID ON CAR

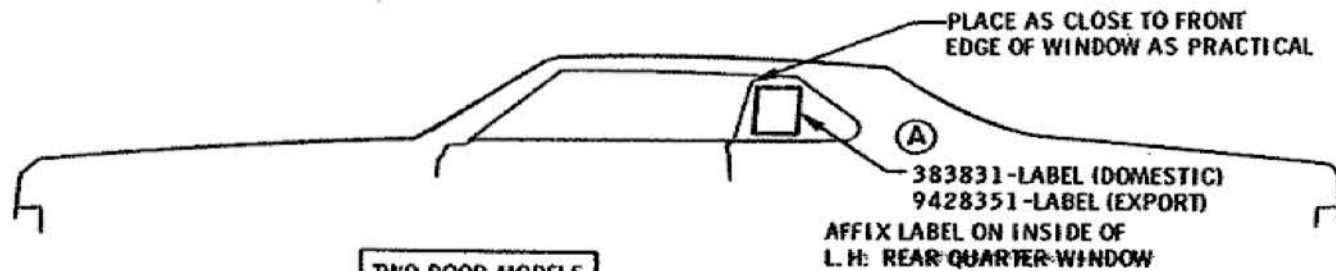


88 MODELS

REVISIONS										TITLE				FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION	PAGE
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	REF.	SERIES	PART NO.	
					12-21-67	C1	35 POS USAGE REMOVED	BP	DT	NOV. 21, 1966						1968		0	122
					6-9-67	B1	35 POS USAGE ADDED	BP	DT	DR. BY B.B. PARKER									
					5-19-67	A4	LABEL NO'S ADDED	BP	DT	CHECKED Titus						REF. 35 G 80, 14E	B-C	398163	



FOUR DOOR MODELS



**TWO DOOR MODELS
&
CONVERTIBLES**

METHOD OF APPLICATION:

WET LABEL, USING A POTDEVIN OR SIMILAR MACHINE CONTAINING WATER INSTEAD OF GLUE. THE LABELS ARE TO BE PASSED THROUGH THE MACHINE SO THAT THE FACE (ADHESIVE SIDE) IS MOISTENED AND THE LABEL THEN AFFIXED IN THE SPECIFIED LOCATION ACCORDING TO BODY STYLE.

AFTER LABEL IS ATTACHED TO THE INSIDE OF THE GLASS, A SQUEEGE SHOULD BE USED TO REMOVE ALL AIR POCKETS.

TYPING REQUIREMENTS: (DOMESTIC LABEL)

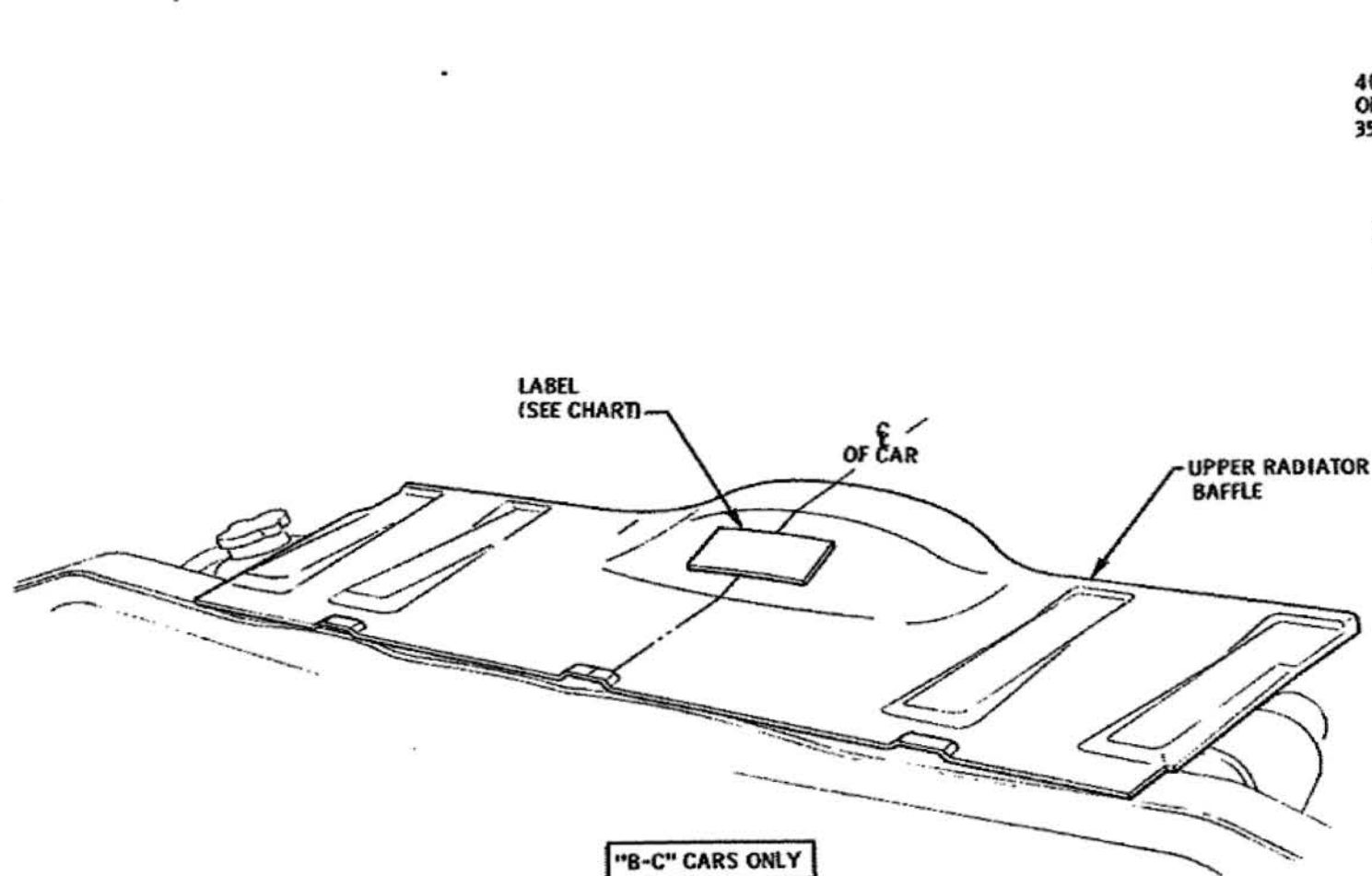
KEELOX 41-75 (BLACK) OFFSET SILK RIBBON (FOR TYPEWRITERS)
KEELOX 41-78 (BLACK) OFFSET SILK RIBBON (FOR I. B. M. TYPE TABULATING MACHINES)

RIBBON MUST BE REPLACED AS SOON AS IT STARTS TO LOSE ITS ORIGINAL DARKNESS.

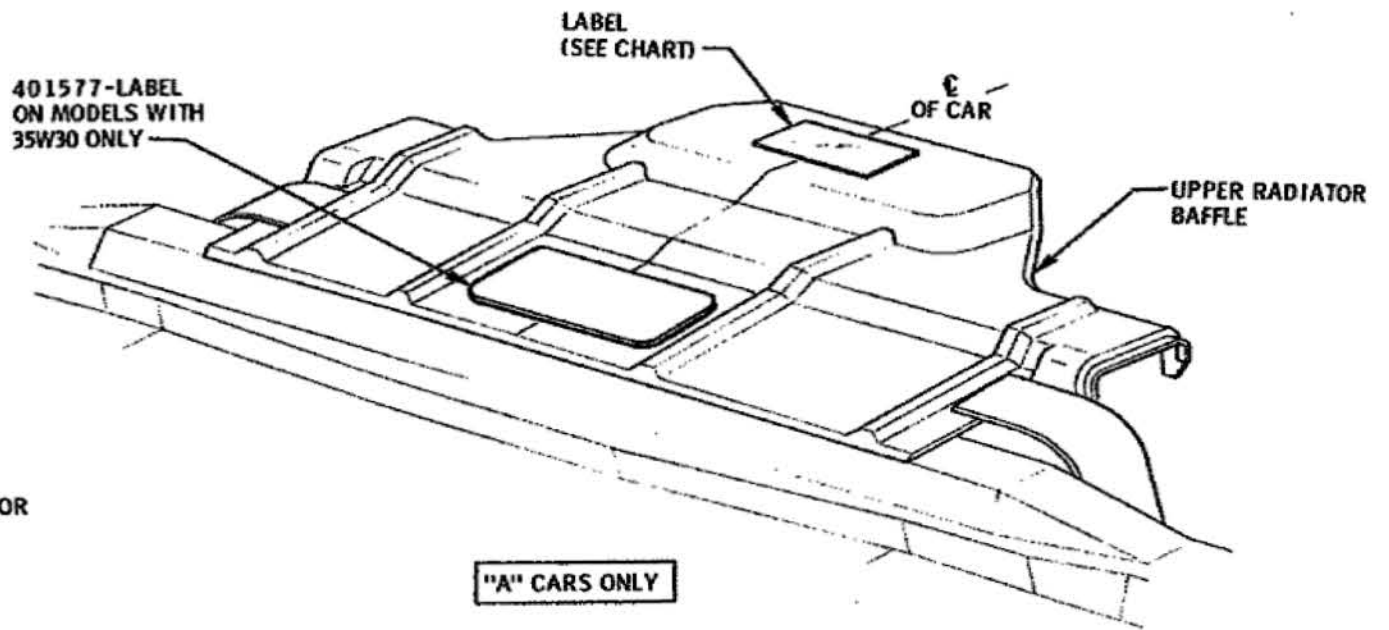
IT IS ESSENTIAL THAT THE TYPING REQUIREMENTS BE STRICTLY ADHERED TO. IF THE "KEELOX" RIBBONS SPECIFIED ARE NOT USED, THERE IS THE POSSIBILITY THAT THE TYPED LETTERS WILL FADE OUT WHEN SUBJECTED TO SUNLIGHT.

CARBON COPY TITLED "CAR SHIPPING ORDER" TO BE PLACED IN GLOVE BOX OF ALL DEALER CAR SHIPMENTS.

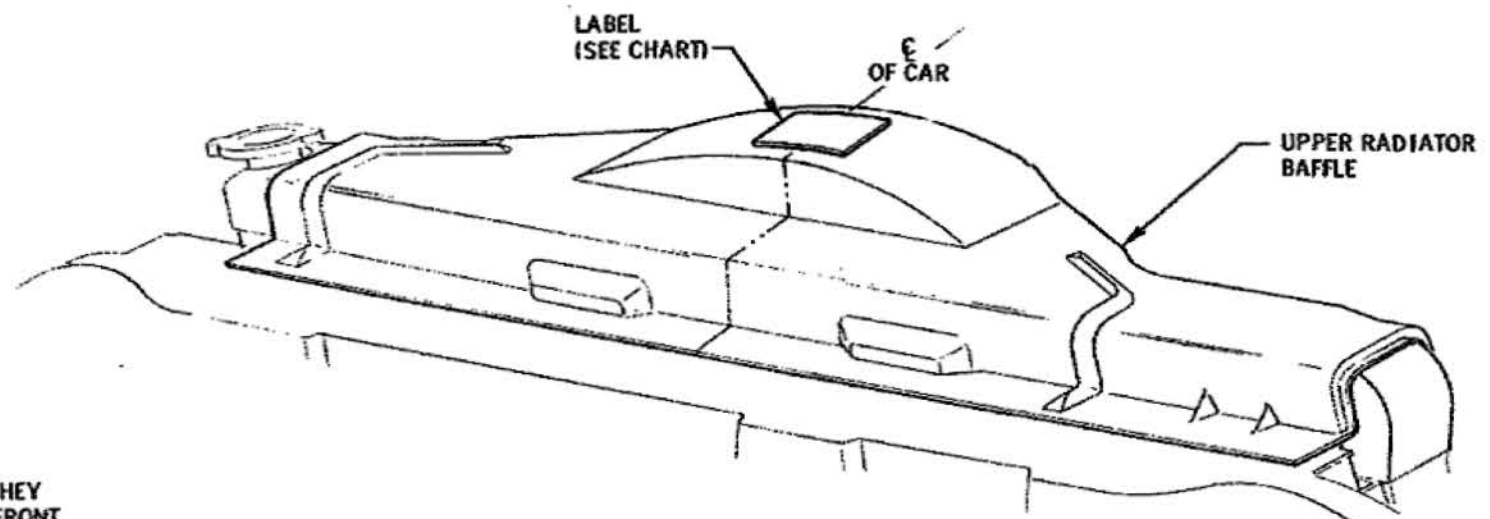
										TITLE				LABEL LOCATIONS			
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE			
										JAN. 20, 1967	1968	INFORMATION MANUAL	0	123			
										DR. BY	CHECKED	APPR.	REF.	SERIES			
										P. J. McKESSY	J. J. J.		14F	B-C			
										3-18-67	9428351-LABEL (EXPORT) ADDED			PART NO.			
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	398163				



"B-C" CARS ONLY



"A" CARS ONLY



"E" CARS ONLY

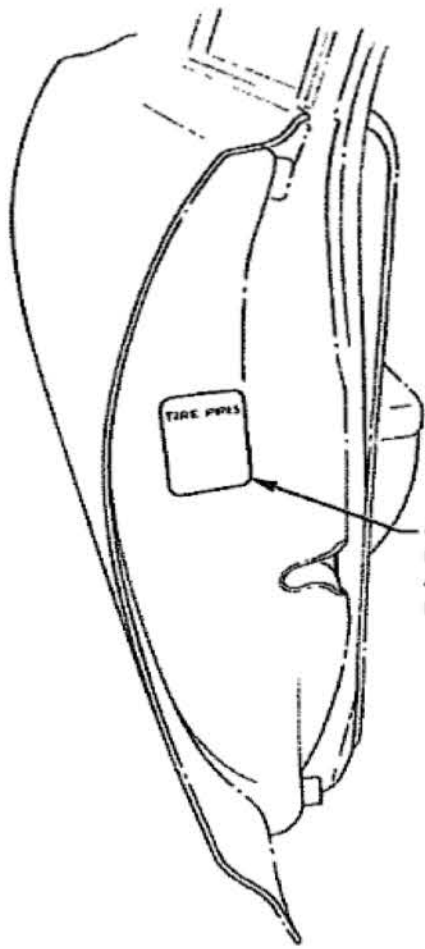
EMISSION CONTROL LABEL CHART		
NO.	CODE	USAGE
402237	ON	L-6 ENGINE WITH S. M. T.
402239	OP	L-6 ENGINE WITH A. M. T.
401496	OA	350 CU. IN. 2BBL. ENGINES
401497	OB	350 CU. IN. 4BBL. ENGINES
401673	OL	400 CU. IN. 2BBL. ENGINES
401672	OK	400 CU. IN. 4BBL. ENGINES WITH S. M. T.
401674	OM	400 CU. IN. 35W30 ENGINES
401318	OC	400 & 455 CU. IN. 4BBL. ENGINES WITH A. M. T. (EXC. 4800 POLICE)
401316	OD	455 CU. IN. LOW COMP. 2BBL. ENGINES WITH S. M. T. OR A. M. T.
401671	OJ	455 CU. IN. HIGH COMP. 2BBL. ENGINES WITH A. M. T.
401319	OF	455 CU. IN. POLICE - 35W34 TORO ENGINES - 4800 400 CU. IN. ENGINES

(H)

(H)

ATTACH LABELS SO THEY CAN BE READ FROM FRONT OF CAR. BE SURE AREA IS CLEAN OF GREASE AND DIRT BEFORE ATTACHING LABELS.

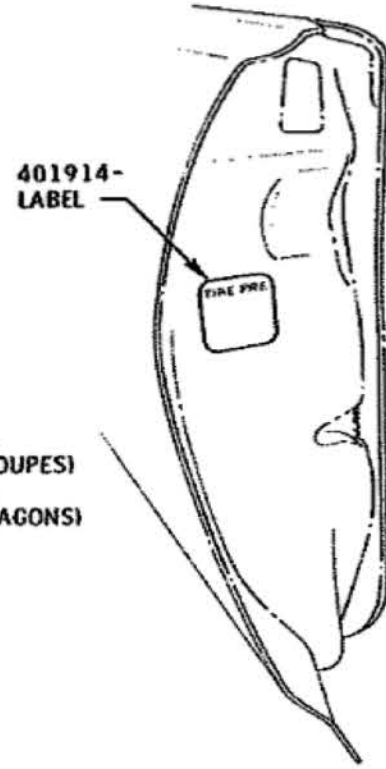
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					8-2-67	E	CHART REVISED	OM	MS							LABELS				
					7-27-67	D	CHART REVISED	OM	MS							DATE MAY 18, 1967	1968		0	124
		4-22-68	H2		7-6-67	C	LABEL ADDED	OM	MS							DR. BY P.J. McKESSY				
		11-15-67	G2		6-29-67	B	CHART REVISED	OM	MS							CHECKED JTB				
		10-10-67	F		6-6-67	A	CHART REVISED	OM	MS							REF. 68				
																SERIES				
																ABCE				
																PART				
																398162-34				



401914-LABEL
(SEDANS AND COUPES)
401866-LABEL
(ALL STATION WAGONS)

ALL STATION WAGONS
AND F-85 SEDANS & COUPES

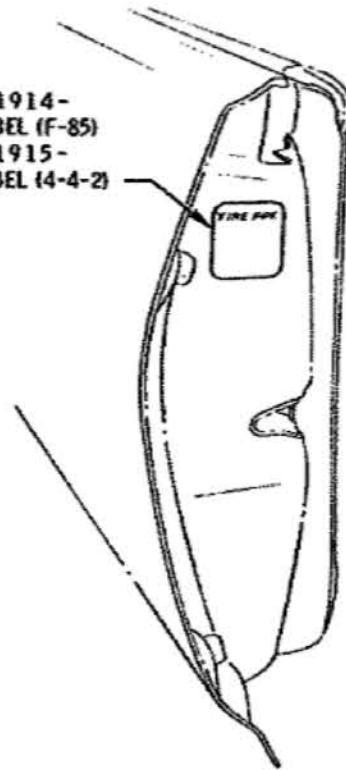
(STATION WAGON SHOWN,
SEDANS SIMILAR)



401914-LABEL

F-85 4 DR.
HARDTOP

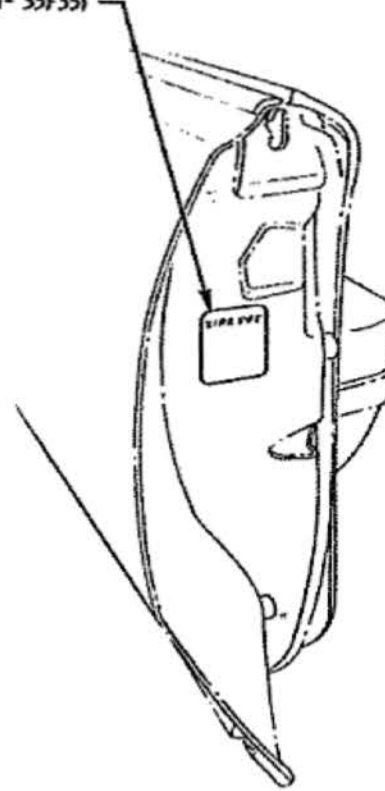
401914-LABEL (F-85)
401915-LABEL (4-4-2)



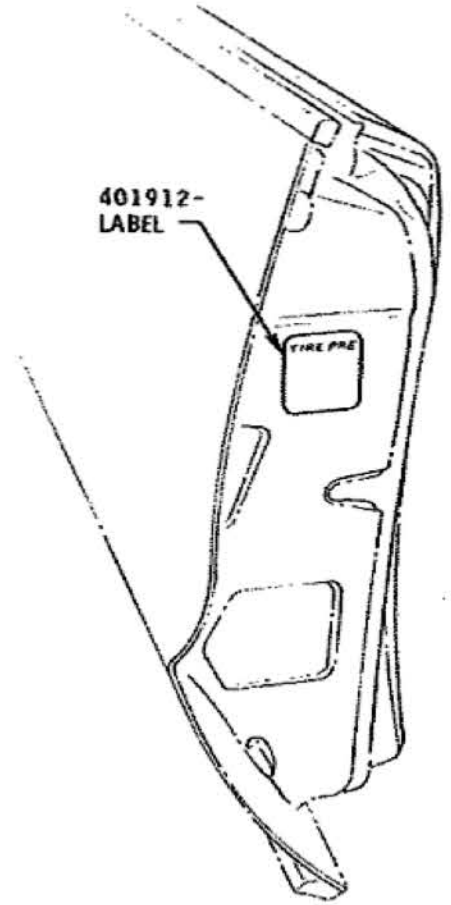
401863-LABEL
(EXC. HEAVY DUTY FRAME OPTION- 35F35)
401870-LABEL
(HEAVY DUTY FRAME OPTION- 35F35)

(A)

F-85 2 DR.
HARDTOPS
AND CONVERTIBLES



EIGHTY-EIGHTS
AND NINETY-EIGHTS
(4 DR. HARDTOPS
SHOWN, OTHERS
SIMILAR)



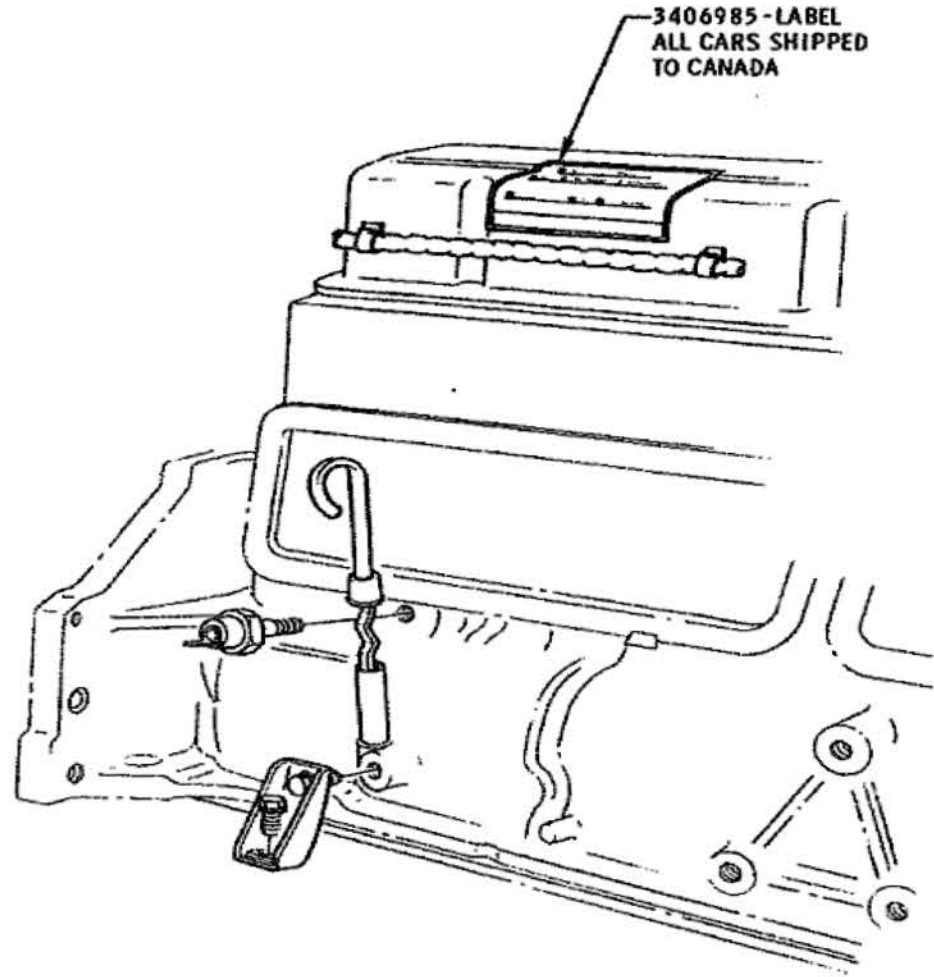
401912-LABEL

TORONADO

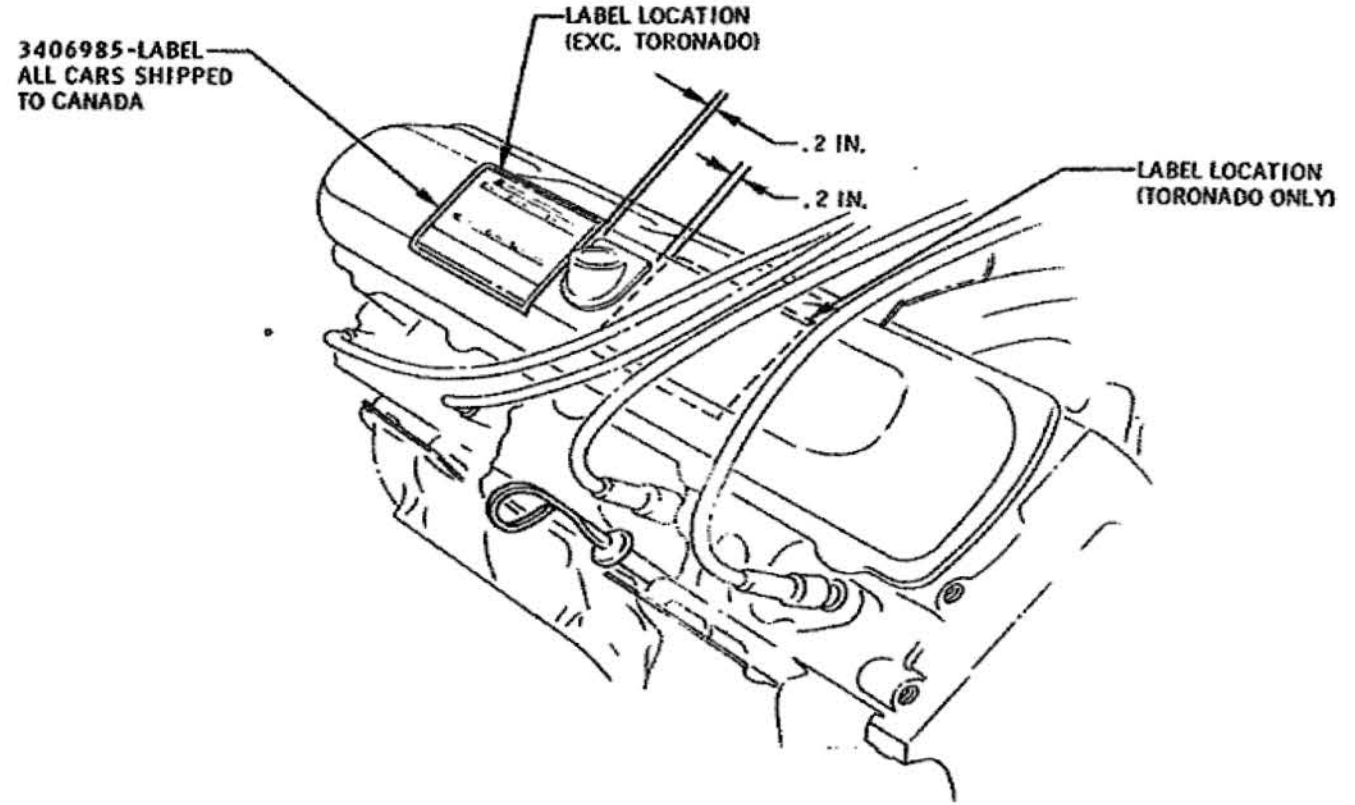
NOTE:

PLACE LABEL ON FACE OF L. H.
FRONT INNER PANEL IN AREA
SHOWN FOR VARIOUS MODELS.

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
												LABEL - TIRE PRESSURE	1968		O	125
9-21-67	B	ALL LABEL PART NOS CHNG'D	EJR									DATE: JUNE 12, 1967 DR. BY: Eo J. Roe				
8-21-67	A	401630-LABEL ADDED	EJR									CHECKED: [Signature] APPR. [Signature]	REF.	SERIES: A-BC-E	PART: 398162-3-4	



L6



V8

LOCATE LABEL ON ENGINE OIL
DIPSTICK SIDE OF ENGINE ON
VEHICLES EXPORTED TO CANADA.

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
												DATE MARCH 28, 1968	1968		O	126
												DR. BY GOODWIN	REF. 96-6			
												CHECKED <i>[Signature]</i>				
												APPR. <i>[Signature]</i>		SERIES	PART NO.	
												APPR. <i>[Signature]</i>		ABCE	398162-3-4	

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING -- MICHIGAN

R. CARROLL, INC. 8984

NAME OF INSTALLATION	INSTALLATION REFERENCE NUMBER	PACKAGE NUMBER	TEMPLATE PART NUMBER	TEMP. DWG. SIZE	DESCRIPTION OF TEMPLATE
ANTENNA - MANUAL	401095	982968	400834	B	FRONT FENDER DRILLING
ANTENNA - ELECTRIC	401114	982969 (88) 982970 (98)	396240 396930 396241 396952	C B C B	REAR FENDER DRILLING - 88 - 2 DOOR REAR FENDER DRILLING - 88 - 4 DOOR & CONV. REAR FENDER DRILLING - 98 INSTRUMENT PANEL CUTOUT
CARRIER - LUGGAGE (DECK LID)	401436	983002			
CARRIER - SKI (DECK LID)	393897	982740			
CLOCK	397040	982815			
CRUISE CONTROL	401109	982963	401143	B	INSTRUMENT PANEL CUTOUT
DEFOGGER - REAR WINDOW	401110	982992	396952	B	INSTRUMENT PANEL CUTOUT
LAMP - COURTESY	401102	982937			
LAMP - GLOVE BOX	401116	982996			
LAMP - TRUNK	401234	982851			
LAMP - UNDERHOOD	401108	982935			
LATCH - TRUNK RELEASE	401111	982999 (88) 983000 (98)			
LOCK - SAFETY DOOR	401547	983005			
LOCK - SPARE WHEEL	401226	982995			
MIRROR - OUTSIDE - R. H.	401067	982932	401066	C	R. H. DOOR PANEL DRILLING
MIRROR - REMOTE	401112	982948	397117	C	DOOR TRIM CUTOUT
MIRROR - VISOR VANITY	401480	983003			

NAME OF INSTALLATION	INSTALLATION REFERENCE NUMBER	PACKAGE NUMBER	TEMPLATE PART NUMBER	TEMP. DWG. SIZE	DESCRIPTION OF TEMPLATE
RADIO	401113	982978 (DELUXE) 982979 (SIG. SEEKER) 982980 (STEREO)			
SEAT - 6-WAY BENCH	401549	983006			
SPEAKER - REAR SEAT	401115	982989 (54-5600 EXC. CONV.) 982990 (ALL OTHERS)			
TAPE PLAYER	401313	982973	401308	C	INSTRUMENT PANEL DRILLING
AUX. OIL COOLER	401373	230518			
HEADLAMP DIMMER	401632	983004	401631	C	FENDER DRILLING
TISSUE DISPENSER	401940	983009			
POWER BRAKE	230561	982994			
POWER STEERING	230564	982959			
FUEL FILTER (1964 THRU 1968)	230586	230585			

Ⓒ

Ⓓ

Ⓑ

SERVICE DEPARTMENT TEMPLATES			
YEAR	TEMPLATE NUMBER	NAME	MODEL USAGE
1967	230567	CORNERING LAMP	ALL
1967	230574	FRONT FENDER REAR MOULDING	DELTA CUSTOM
1966	230568	CORNERING LAMP	ALL
1966	230569	FRONT FENDER REAR MOULDING	STARFIRE
1965	230572	CORNERING LAMP	ALL
1965	230573	FRONT FENDER REAR MOULDING	JETSTAR 1

CHART - DEALER INSTALLATIONS AND TEMPLATES											
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM
					9-8-68	D	3	DR.	BT	TITLE	CHART - DEALER INSTALLATIONS AND TEMPLATES
					11-3-67	C	1	DR.	BT	DATE	AUG. 9, 1967
					10-21-67	B	1	DR.	BT	DR. BY	R. GOODWIN
					9-18-67	A	1	DR.	BT	CHECKED	JEM
										APPR.	
										APPR.	

FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	0	PAGE	128
SERIES	B-C	PART NO.	398163			

THE AMOUNT OF SOLUTION SHOULD BE REGULATED SO THAT A MINIMUM OF 1 1/2 PINTS IS LEFT IN THE JAR WHEN THE CAR IS SHIPPED. IF WATER IS USED IN THE PLANT TO TEST THE SYSTEM, THE JAR MUST BE DRAINED AND THE WASHER CYCLED TWO OR THREE TIMES AFTER THE ADDITION OF THE SOLVENT SOLUTION TO CLEAR THE WATER OUT OF THE NOZZLES, PUMP AND HOSES. THE RATIO OF SOLVENT TO WATER REQUIRED FOR 0° F AND 24° F PROTECTION IS SHOWN BELOW:

TIME PERIOD	FREEZING POINT	MIXTURE SOLVENT TO WATER	AMOUNT OF 9985129 SOLVENT TO MAKE 55 GAL. OF SOLUTION (ADD WATER)
OCTOBER 2 THRU MARCH 30	0° F.	1:2	18.3 GAL.
APRIL 1 THRU OCTOBER 1	24° F.	1:10	5.0 GAL.

PRODUCTION SAMPLE TO BE APPROVED BY PRODUCT ENGINEERING FOR OLDSMOBILE PARTS.
SOLVENT TO BE USED IS SHOWN UNDER G.M. STANDARD PART NO. 9985129.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	SERIES	PART NO.
																CHART - WINDSHIELD WASHER SOLUTION	1968		0	130	ABCE	399907
					9-28-67	C	REVISED									DATE JAN. 6, 1967						
					3-3-67	B	CHART REVISED									DR. BY DON MALKIN						
					2-14-67	A	CHART REVISED									CHECKED J. N. FAMES						
																APPR.						

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

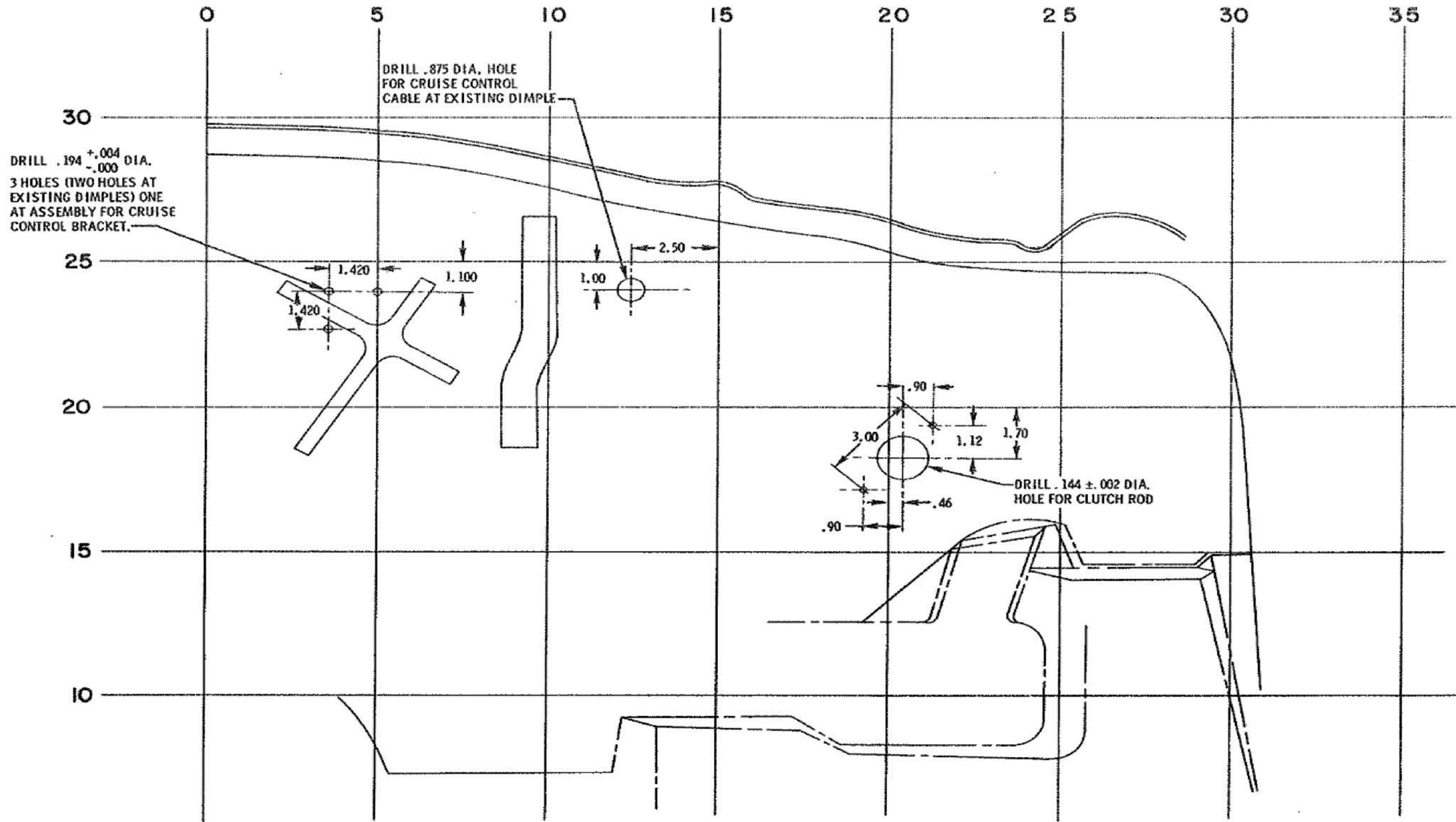
G. CAMBER, INC. 1968

G.M. SPEC. PART NO.	DESCRIPTION	USAGE	SERIES	APPROVED SOURCES
9985156 9985167	OIL, SOLUBLE ONE PART OIL TO 3 PARTS WATER	EFFECTIVE ALL YEAR ALL EXTERIOR TRIM	EXPORT ONLY	PILLSBURY G-65-60
	APPEARANCE WAX	APPLY TO ALL HORIZONTAL SURFACES	GMAD AND CHEVROLET ASSEMBLY PLANTS ONLY	DUPONT PRODUCTS VM 1356 (ELECTRIC STATIC SPRAY) VM 1357 (HAND SPRAY)

NOTE:
SOLUBLE OIL TO BE APPLIED TO ALL
BUMPERS IMMEDIATELY AFTER
PLATING, FOR PROTECTION DURING
HANDLING, PACKAGING, AND STORAGE.
① SOLUTION TO BE ONE PART OIL
TO NINETY-NINE PARTS WATER.

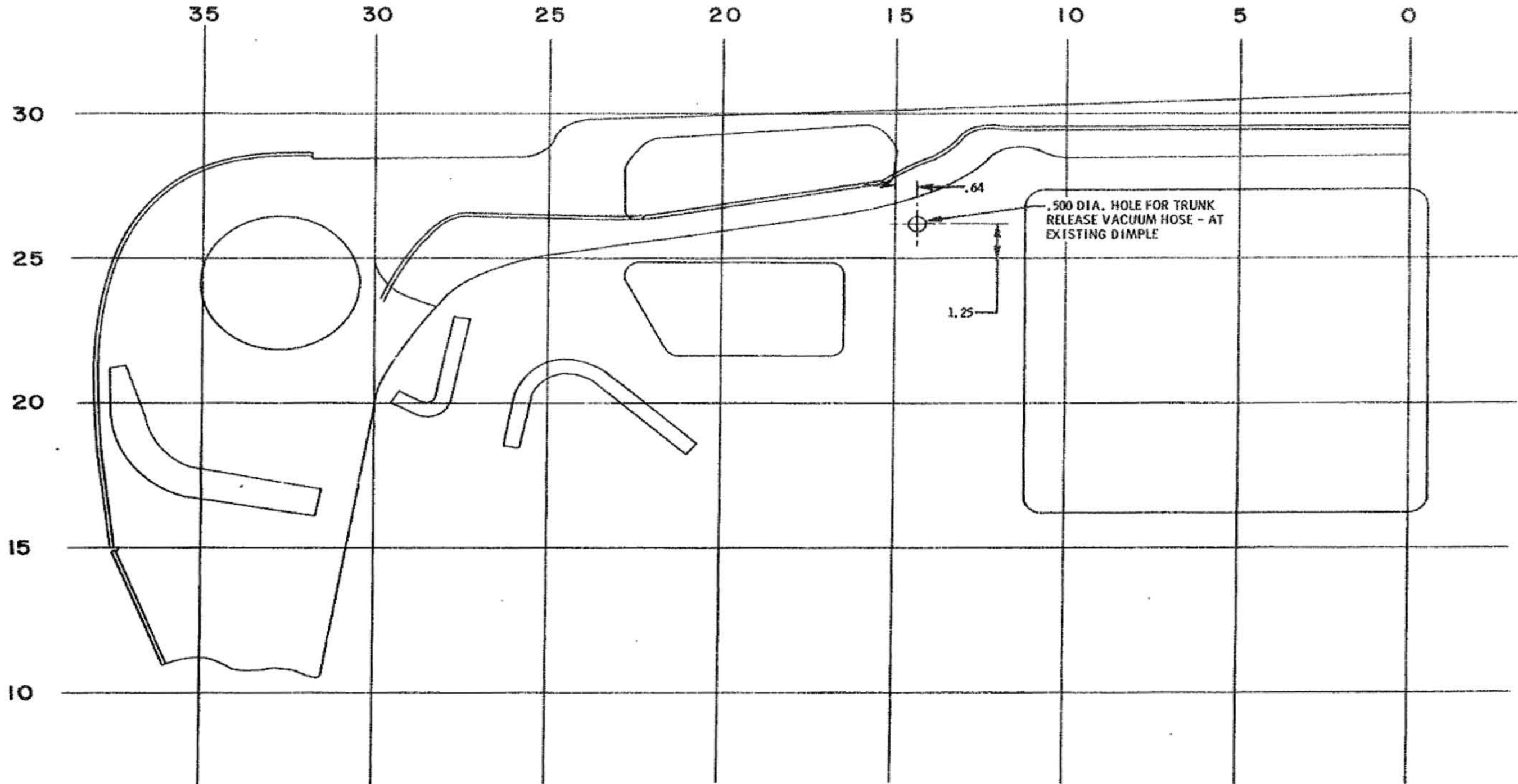
ⓑ

TITLE CHART - CORROSION PROTECTION (SHIPPING)										FIRST USED 1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION 0		PAGE 135	
DATE FEBRUARY 2, 1967										DR. BY RODNEY DAVIS		CHECKED DON MALKIN		SERIES ABCE		PART NO. 400120	
5-19-67 B 9985156-OIL REMOVED										3-23-67 A NOTE REVISED							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION



SHEET 1 OF 6

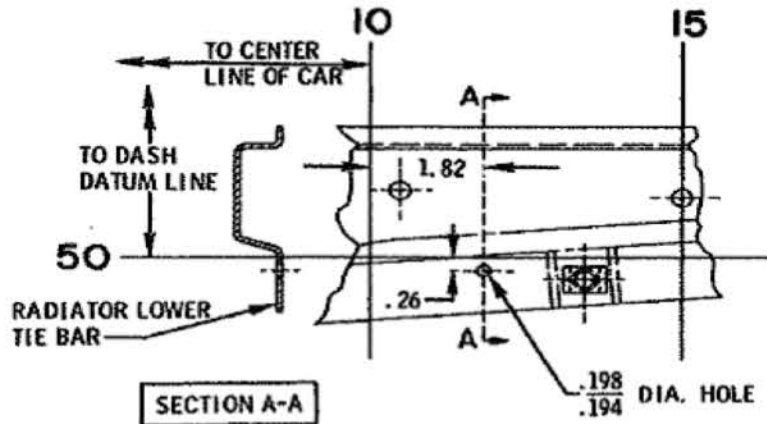
TITLE										LAYOUT - DRILLING (DASH)										
DATE <i>MARCH 22, 1967</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE				
DR. BY <i>DON MALKIN</i>										1968		INFORMATION MANUAL		O		140				
CHECKED <i>[Signature]</i>										REF.		SERIES		PART NO.		400958				
APPR.												B-C								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.



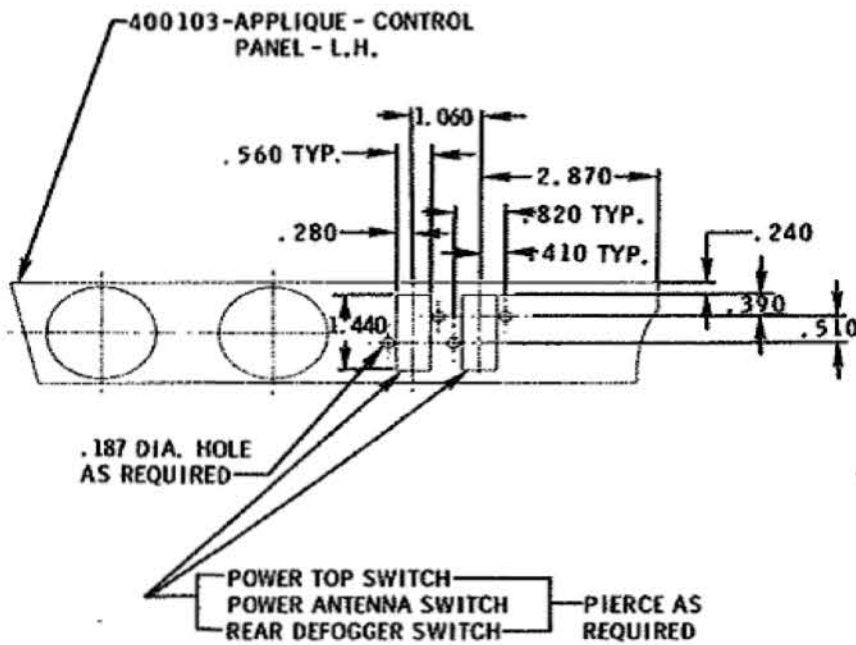
AIR CONDITIONING - RIGHT
SIDE OF CAR

SHEET 2

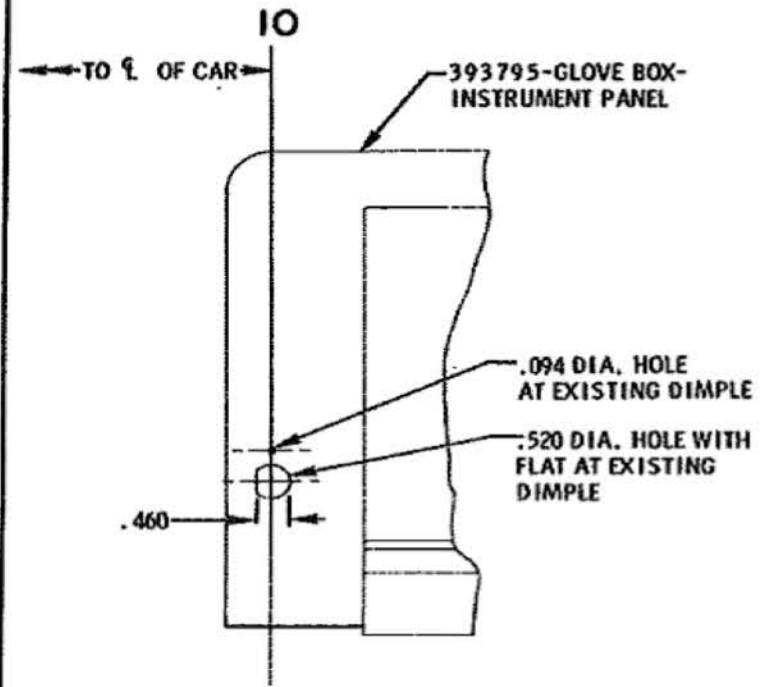
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	HANDL SECTION	PAGE
																LAYOUT - DRILLING (DASH)	1968		O	141
																		B-C	PART NO. 400958	



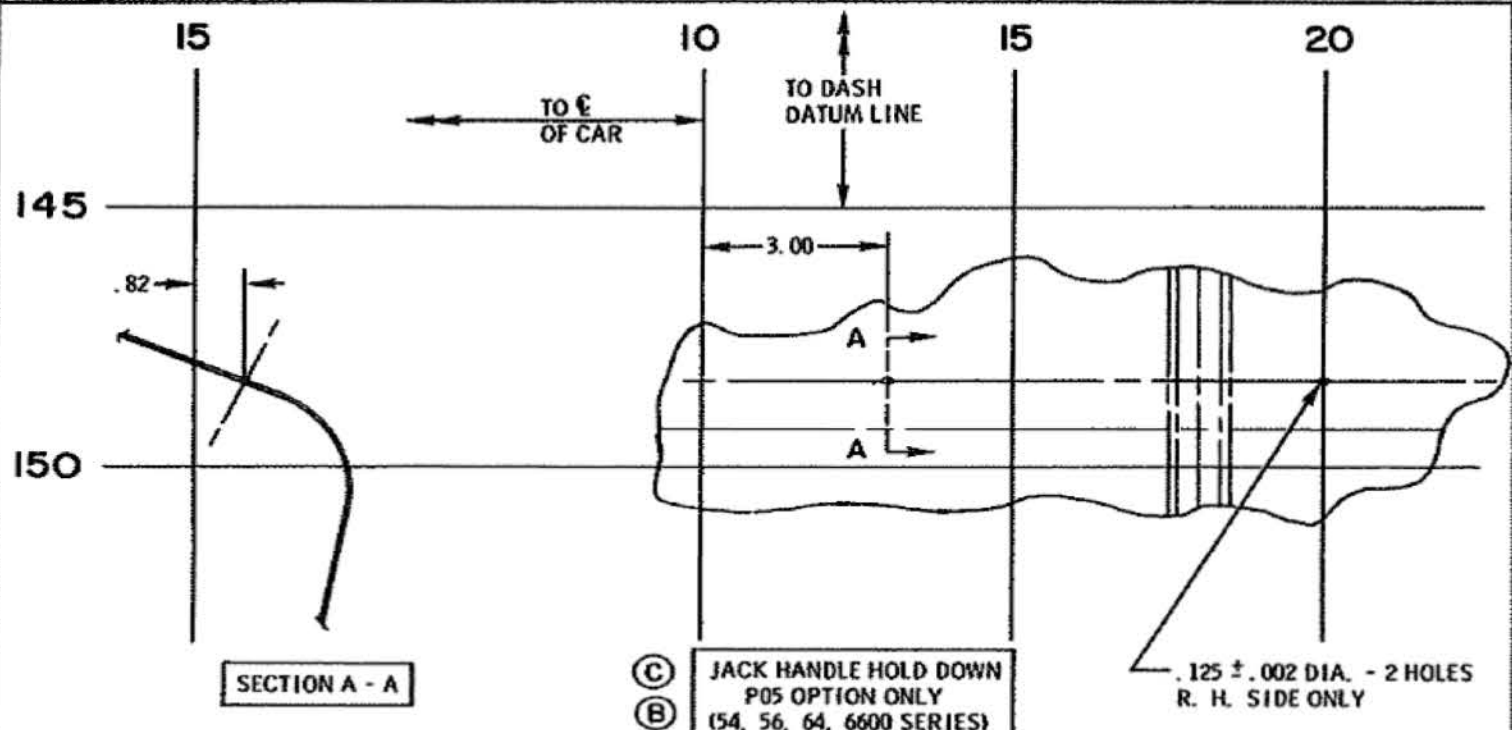
OIL COOLER PIPE HOLD DOWN LOCATION IN RADIATOR LOWER TIE BAR



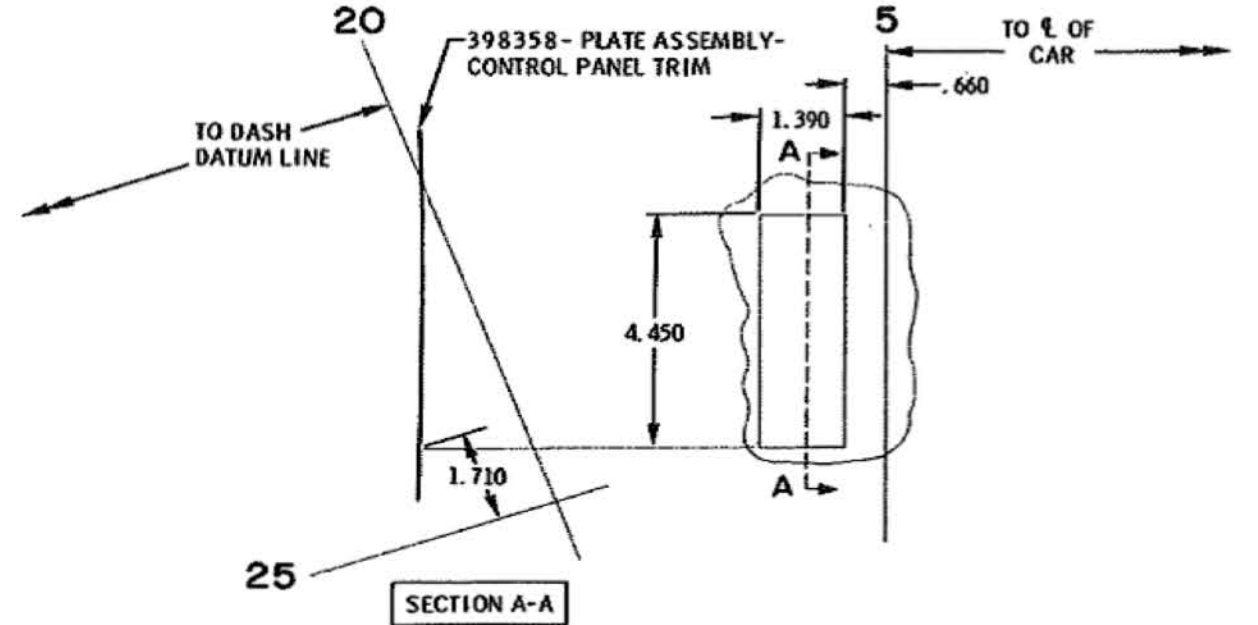
ACCESSORY SWITCH LOCATIONS IN L.H. APPLIQUE



TRUNK RELEASE LOCATION IN GLOVE BOX



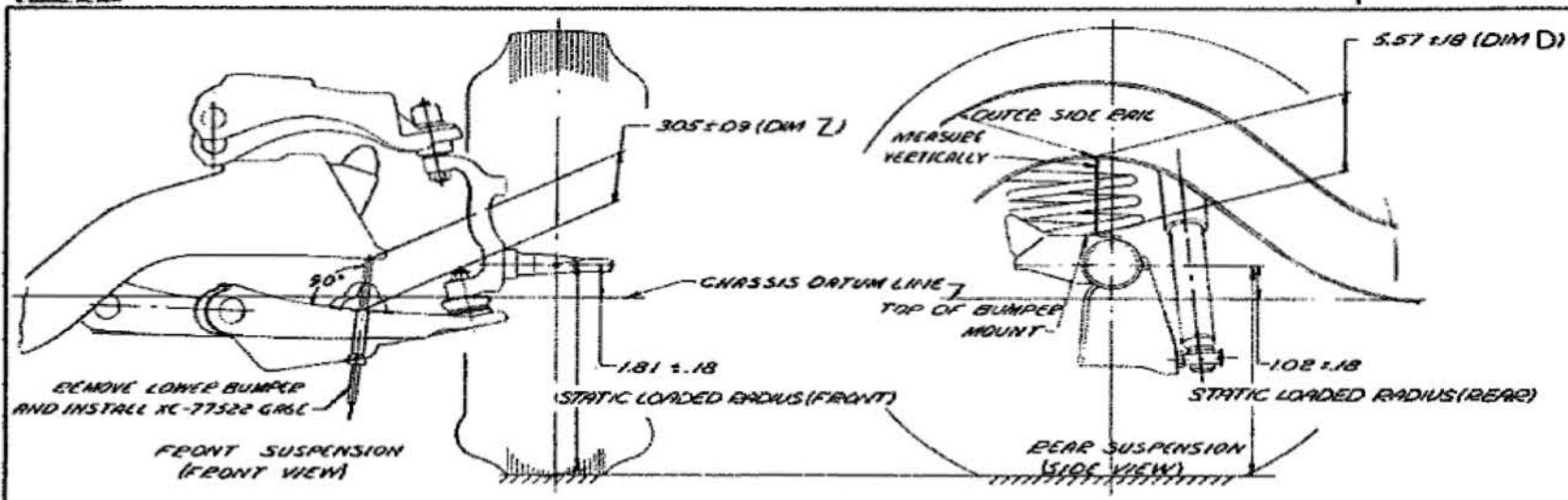
JACK HANDLE HOLD DOWN P05 OPTION ONLY (54, 56, 64, 6600 SERIES)



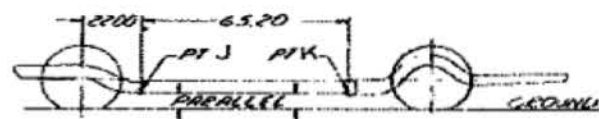
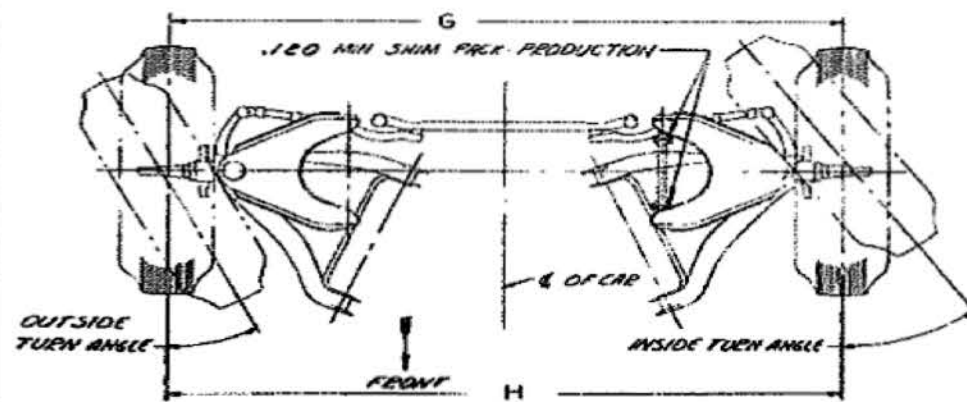
AUTOMATIC THROTTLE CONTROL LOCATION IN CONTROL PANEL TRIM PLATE

TITLE LAYOUT - DRILLING (MISCELLANEOUS)												
DATE MARCH 21, 1967												
DR. BY DON MALKIN												
CHECKED BY [Signature]												
APPR. [Signature]												
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.

FIRST USED: 1968
 OLDSMOBILE PRODUCT INFORMATION MANUAL
 MANUAL SECTION: O
 PAGE: 143
 SERIES: B-C
 PART NO.: 400958



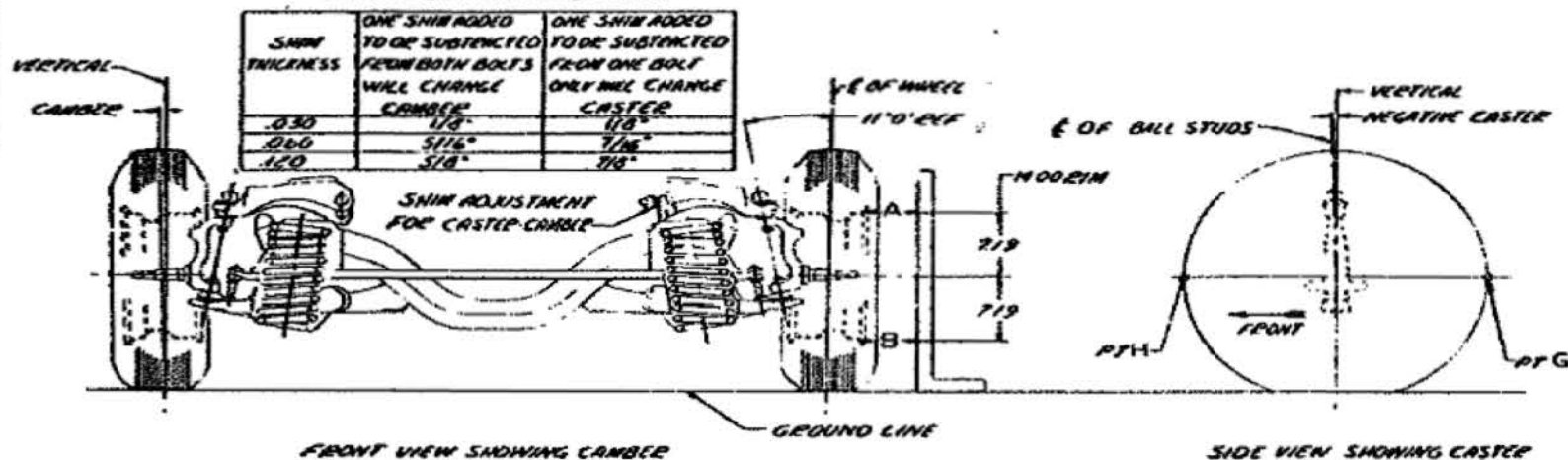
SPRING HEIGHT CHECK AND PRODUCTION SETTING



OPTIONAL PRODUCTION SETTING METHOD
WHEEL TURN GEOMETRY

TURN	INSIDE TURN ANGLE	OUTSIDE TURN ANGLE
FULL TURN-POWER	36° 00'	27° 00'
FULL TURN-MANUAL	36° 00'	27° 56'
20° TURN-POWER	20° 00'	17° 51'
20° TURN-MANUAL	20° 00'	18° 26'

PLAN VIEW SHOWING TOE-IN



FRONT VIEW SHOWING CAMBER

SIDE VIEW SHOWING CASTER

TOE-IN CAMBER AND CASTER

CAR HEIGHT:
PRODUCTION- SET CAR AT FRONT CARRYING HEIGHT USING DIMENSION Z AND POSITION FRAME SIDE BAR TO ANGLE SHOWN BETWEEN POINTS J & K.
OPTIONAL METHOD- SET CAR AT DIMENSION Z FRONT, DIMENSION D REAR AND VARY TIRE PRESSURE TO OBTAIN EQUAL STATIC LOADED RADIUS FRONT & REAR.
SERVICE- SET CAR TO NORMAL CURB CARRYING HEIGHT USING SERVICE MANUAL ROCKER PANEL TO GROUND DIM. (GAS TANK FULL, TRUNK EMPTY ETC FOR SPARE & JACK.)

TOE-IN:
NOTE: STEERING WHEEL SPOKE MUST BE HELD IN HORIZONTAL PLANE DURING TOE-IN SETTING. AFTER TOE-IN SET, THE STEERING WHEEL MUST BE CENTERED WITHIN .62 LEFT AND .62 RIGHT AT RIM.
PRODUCTION SETTING- DIMENSION G 1/8 TO 1/4 GREATER THAN DIMENSION H. A MINIMUM OF ONE COMPLETE THREAD MUST PROJEKT BEYOND EACH END OF TIE ROD SLICVE AFTER TOE-IN IS SET.
SERVICE LIMIT- DISTANCE FROM ONE TIRE TO THE OTHER AT PT G SHOULD BE 1/8 TO 3/16 GREATER THAN AT POINT H.

CAMBER:
PRODUCTION SETTING- CAMBER ANGLE 1/8" POSITIVE ± 3/16"
SERVICE LIMIT- CAMBER ANGLE 1/4" NEGATIVE TO 1/2" POSITIVE. EQUIVALENT DISTANCE D IS .13 LESS TO .06 MORE THAN D. MAXIMUM VARIATIONS BETWEEN THE TWO SIDES OF THE CAR SHOULD NOT EXCEED 1/2" FOR BOTH PRODUCTION AND SERVICE SETTINGS.

CASTER:
PRODUCTION SETTING- CASTER ANGLE TO BE 1" NEGATIVE ± 1/2"
SERVICE LIMIT- CASTER ANGLE TO BE 3/4" TO 1 1/2" NEGATIVE. MAXIMUM VARIATION BETWEEN THE TWO SIDES OF THE CAR SHOULD NOT EXCEED 1/2" FOR BOTH PRODUCTION AND SERVICE SETTING.

FRONT WHEEL TRACK (AT GROUND):
 62.50 ALL MODELS

REAR WHEEL TRACK:
 63.00 ALL MODELS

DATE	REV.	REVISIONS RECORD	APPROVED BY	IN CH.
3-3-67	1	WRS 10-24-53		

NO 400898
 SHEET 1 OF 1
 LAST CHANGE

TOLEANCES UNLESS OTHERWISE SPECIFIED ARE ALLOWED ON TWO PLACE DECIMALS ± .004 ALLOWED ON THREE PLACE DECIMALS ON ALL CASTINGS AND FOREIGNS ALLOW FOR FINISH AS FOLLOWS F₁ - .001; F₂ - .001; F₃ - .001; F₄ - .001 ETC.
 COMMERCIAL TOLERANCES APPLY TO MESH METAL GAGES, TURNING, ROLLED, DRAWN OR EXTRUDED SECTIONS & STANDARD PARTS

DO NOT SCALE

DATE: MAR 8, 1967 BY: W. OTIS
 SCALE: 1/8" = 1" OK: BEDFORD
 PART NO: 1968 DATE: J.P. [Signature]
 DESIGNED: [Signature] DATE: 2-66
 DRAWN: [Signature]

LAYOUT - FRONT & REAR
 WHEEL ALIGNMENT
 2-68 E

400898

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

G. EATROLL, INC. 87041

CARBURETORS ARE TO BE PRIMED IN PRODUCTION BY SUPPLYING FUEL THROUGH THE FUEL PUMP INLET FITTING AT A PRESSURE OF 8 PSI (6 PSI TO 9 PSI IS SATISFACTORY). THIS PROCEDURE REQUIRES 5 TO 6 SECONDS. PRIMING IN THIS MANNER CANNOT CAUSE DAMAGE TO THE CARBURETOR OR FUEL PUMP.

AN ALTERNATE BUT LESS PREFERRED METHOD IS TO FEED A MEASURED AMOUNT OF FUEL (70 CC) INTO THE CARBURETOR BOWL VENTS AT VERY LOW PRESSURE PREFERABLY JUST BY GRAVITY.

CAUTION: UNDER NO CONDITION IS THE FUEL TANK TO BE PRESSURIZED TO PRIME CARBURETORS.

														TITLE				CHART - CARBURETOR PRIMING PROCEDURE			
					DATE	MARCH 11, 1967				FIRST USED	1968		OLDSMOBILE PRODUCT INFORMATION MANUAL			MANUAL SECTION	O		PAGE	149	
					DR. BY	RODNEY DAVIS				CHECKED			J. N. FINES		SERIES		ABCE				
					DATE					REF.			PART NO.		400902						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.						

INITIAL CHECK

1. MAKE SURE NEUTRAL START SWITCH IS CORRECTLY ADJUSTED SO CAR DOES NOT START IN REVERSE OR DRIVE.
2. MAKE SURE SHIFT LINKAGE IS CORRECTLY ADJUSTED SO THAT COLUMN STOPS DO NOT INTERFERE WITH THE TRANSMISSION QUADRANT DETENTS IN NEUTRAL AND DRIVE.

IMPORTANT

1. DO NOT EXCEED 1/2 THROTTLE OPERATION, EXCEPT ON MAKING A DOWNSHIFT.
2. DO NOT EXCEED 60 MPH.
3. DO NOT SHIFT TO PARK OR REVERSE WITH ROLLS TURNING.
4. IF CAR HAS EXCESSIVE CREEP, CHECK IDLE RPM.
5. CHECK FOR GEAR NOISE LEVEL DURING FUNCTIONAL CHECKS IN DRIVE, LOW AND REVERSE.
6. DO NOT ACCELERATE OR DECELERATE RAPIDLY WHILE PERFORMING CHECKS.

CHECKS AND PROCEDURE

1. MAKE LIGHT THROTTLE START & OBSERVE THE 1-2 UPSHIFT AT 15-20 AND THE 2-3 UPSHIFT AT 25-35 MPH. (THESE SHOULD OCCUR AT APPROXIMATELY THE SAME THROTTLE OPENING.)
2. OPEN THROTTLE THRU DETENT AND OBSERVE FOR DOWNSHIFT FUNCTION.
3. BACK OFF ON THROTTLE AND OBSERVE UPSHIFT AT 50-60 MPH.
4. COAST DOWN TO 50 MPH, SHIFT TO "SUPER" RANGE AND OBSERVE SHIFT - WHEN TRANSMISSION HAS SHIFTED COMPLETELY INTO SECOND GEAR, SHIFT TO LOW RANGE AND OBSERVE SHIFT.
5. STOP WHEELS, SHIFT TO REVERSE AND ACCELERATE LIGHTLY.
6. CHECK OPERATION OF PARKING PAWL ON 10% GRADE OR EQUIVALENT - SHOULD ENGAGE AND RELEASE FREELY WITHOUT RATCHETING.

B & C WITH M40

SHEET 2 5400 WITH M40

										TITLE		CHART - ROLL TEST PROCEDURE							
										DATE	FEBRUARY 8, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	O	PAGE	151	
										DR. BY	RODNEY DAVIS	REF.		SERIES	B-C	PART NO.	400363		
										CHECKED	DON MALKIN	APPR.							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

IBM ACCESSORY CODES

1968 MODELS

Alphabetical Reference

Symbol	Column	Punch	Description
AA3	48	4	Chrome Coated Tinted Roof
AA1	50	2	Std. Frt. Shoulder Belts (Conv. Only)
AS4	50	4	Dlx. Rear Shoulder Belts
AS5	50	4	Std. Rear Shoulder Belts
A01	48	1	Tinted Glass
A02	48	2	Tinted Windshield
A31	52	1	Power 4-Window Lifts
A32	52	2	Power Ventpanes
A33	54	2	Power Window Tailgate
A39	50	1	Dlx. Frt. & Rear Lap Belts (Conv. Only)
A41	53	1	4-Way Power Seat - Bench
A42	53	2	6-Way Power Seat - Bench
A46	53	4	4-Way Power Seat - Bucket
A66	64	1	Divided Second Seat
A69	54	1	Strato Bench Reclining Seat
A70	54	2	Strato Bucket Reclining Seat
A74	71	1	H.D. Seat Springs - Frt. & Rear
A75	71	1	H.D. Seat Springs - Frt. (Wgm.)
A81	54	4	Strato Type Head Restraints
A82	54	8	Non-Strato Type Head Restraints
A85	50	2	Dlx. Frt. Shoulder Belts (Conv. Only)
A91	44	4	Power Trunk Lid Latch
A93	52	4	Side Door Locks
BG1	71	2	H. D. Frt. & Rear Floor Covering
B01	69	1	Police Apprehender (City)
B07	69	2	Police Apprehender (Highway)
B30	51	1	Wool Carpets
B32	51	2	Aux. Frt. Floor Mats
B33	51	4	Aux. Rear Floor Mats
B36	65	4	Luggage Compartment Mat
B39	65	4	Carpeted Load Floor
B50	63	1	Foam Frt. Seat Cushion
B52	63	2	Foam Rear Seat Cushion
B80	62	1	Roof Drip Mouldings
B85	62	2	Window Sill Mouldings
B90	62	4	Chrome Window Frames
B93	45	4	Door Edge Guard
B96	66	2	Wheel Opening Mouldings
C24	66	1	Recessed Windshield Wipers
C50	65	1	Rear Window Defogger
C51	52	4	Rear Window Air Deflector
C60	49	1	Air Conditioner
C61	49	2	Comfortron Air Conditioner
D53	66	4	Remote Control Mirror
D55	52	2	Frt. Compartment Console
FE1	57	2	Rally Sport Suspension
FG2	58	4	Firm Ride Shock Absorbers
P35	57	2	H.D. Frame
G51	57	4	H. D. Springs
G66	58	1	Superlift Rear Shock Absorbers
G80	58	2	Anti-Spin Differential
G88	59	1	Performance Axle
G89	59	2	Performance Axle
G90	59	3	Performance Axle
G91	59	4	Performance Axle
G92	59	5	Performance Axle
G95	59	6	Expressway Axle
G96	59	7	Expressway Axle
J50	40	2	Power Brakes
J52	40	4	Disc Brakes
J55	70	2	H. D. Power Brakes - Police
K30	55	1	Cruise Control
K66	55	2	High Voltage Ignition
K81	72	1	62 Amp. Delcotron - Police
L30	38	1	455 cu. in. 2 bbl. 9.00 to 1 C.R.
L31	38	3	455 cu. in. 4 bbl. 10.25 to 1 C.R.
L32	38	4	455 cu. in. 4 bbl. 10.25 to 1 C.R.
L65	37	6	400 cu. in. 2 bbl. 9.00 to 1 C.R.
L66	38	2	455 cu. in. 2 bbl. 10.25 to 1 C.R.
L74	37	2	350 cu. in. 4 bbl. 10.25 to 1 C.R.
L77	37	5	400 cu. in. 4 bbl. 10.50 to 1 C.R.
L78	37	4	400 cu. in. 4 bbl. 10.50 to 1 C.R.

Symbol	Column	Punch	Description
M11	39	1	3-Speed Column Shift
M14	39	2	3-Speed Fully Synchronized
M20	39	3	4-Speed Synchronized
M21	39	4	4-Speed Close Ratio Synchronized
M31	39	5	Jetway
M40	39	6	Hydra-Matic
M41	39	7	Police Hydra-Matic
M55	56	4	Auxiliary Oil Cooler
N10	55	4	Dual Exhaust System
N30	43	1	Dlx. Steering Wheel
N33	43	2	Tilt Steering Column
N34	43	1	Wood Grain Steering Wheel
N37	43	2	Tilt & Telescope Steering Wheel
N38	70	1	H. D. Manual Steering
N40	40	1	Power Steering
N83	41	1	14" Whitewall Tires for 4-4-2
N81	41	8	14" Red Line Tires
N94	42	3	15" Dlx. Wheel Discs
N95	42	4	14" Stimulated Wire Wheels
N98	42	5	15" Spider & Trim Rings
PA1	42	7	14" Special Wheel Discs
PE1	41	4	14" Heavy Service Whitewall Tires
PT2	41	3	14" Radial Ply Whitewall Tires
P01	42	1	14" Wheel Discs
P02	42	2	14" Wheel Discs - Dlx.
P03	42	3	15" Wheel Discs - Dlx.
P04	41	2	15" Whitewall Tires
P05	42	2	14" Super Stock Wheels
P06	42	5	15" Trim Rings
P14	41	3	15" Radial Ply Whitewall Tires
P26	41	1	14" Whitewall Tires
P28	41	5	15" Tires & Wheels - Blackwall
QD3	41	3	15" Radial Ply Whitewall Tires
T60	70	4	H. D. Battery
T87	56	1	Cornering Lamps
U15	44	2	Safety Sentinel
U21	44	1	Rally Pac
U29	45	2	Courtesy Lamps
U35	43	4	Electric Clock
U57	47	4	Tape Player - Stereo
U58	46	3	Stereophonic Radio - AM-FM
U59	46	2	AM-FM Radio
U63	46	1	Dlx. Radio
U69	46	2	AM-FM Radio
U71	47	1	Power Antenna
U75	47	1	Power Antenna
U80	47	2	Rear Seat Speaker
U89	57	1	Trailer Wiring Harness
U90	72	2	Flasher Wiring Harness & Roof Reinforcement
U91	72	4	Flasher Wiring Harness
V01	49	8	H. D. Radiator
V55	65	1	Luggage Carrier
V56	65	2	Storage Comp. Lock
W30	37	7	400 cu. in. 4 bbl. 10.50 to 1 C.R. with Air Induction System (4-4-2)
W31	38	6	Forced Air Induction System
W34	38	5	455 cu. in. 4 bbl. 10.25 to 1 C.R. with Air Induction System
W36	61	1	Rally Stripe
W37	63	4	Dlx. Interior Decor
W39	50	3	Dlx. Frt. & Rear Lap Belts & Frt. Shoulder Belts (Exc. Conv.)
Y60	45	1	Accessory Group Package
Y67	63	4	Interior Option
Y68	66	2	Body & Wheel Opening Molds.
Y70	60	4	Alphabetlic GT or Rally Stripe Color
Y72	49	4	H. D. Engine Cooling
Y77	65	4	Wheel Cover & Mat

Car Distribution Department
2/2/68

Column	Key Punch	Acc. Letter	Description
29			
30			
31			
			Trims
32			
33			
34			Color
35			
36			Group Number
			350 cu. in. 4 Val. 10.25 to 1 C.R. 489 cu. in. 4 Val. 10.25 to 1 C.R. L74 L75 L77 L78 400 cu. in. 4 Val. 10.25 to 1 C.R. (Police) 350 cu. in. 2 Val. 9.00 to 1 C.R. (4200 Only) L65 L66 400 cu. in. 2 Val. 9.00 to 1 C.R. (4400 & 4800) W30 400 cu. in. 4 Val. 10.25 to 1 C.R. with Air Induction System (44-42)
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			

Column	Key Punch	Acc. Letter	Description
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			

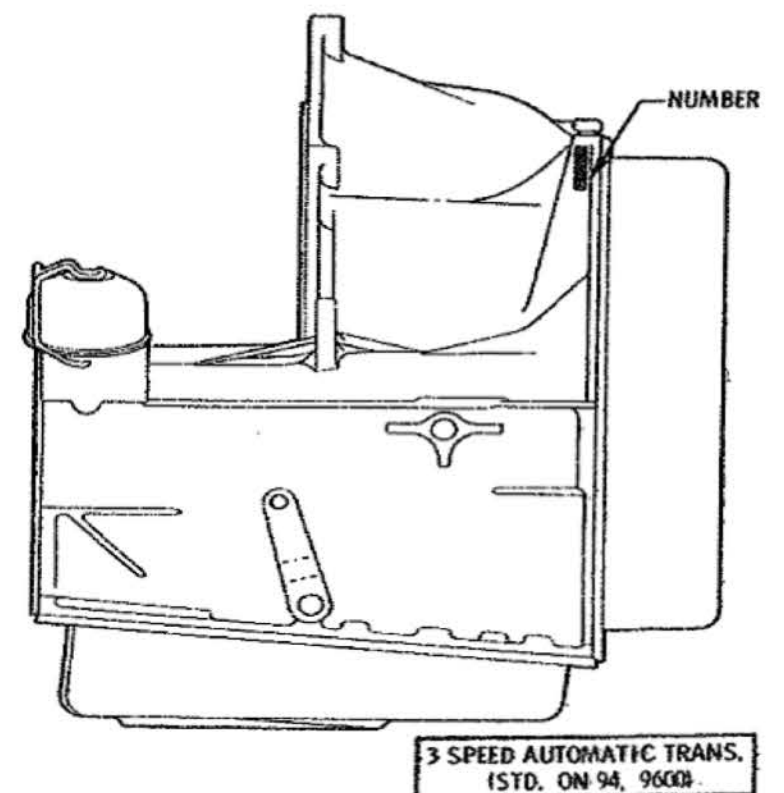
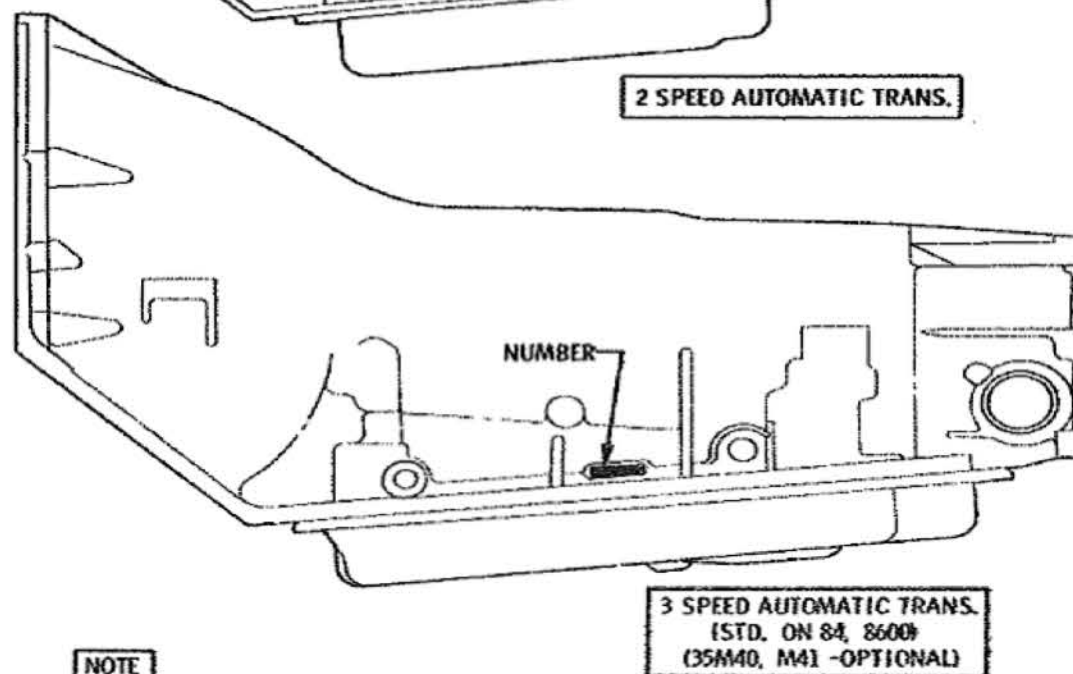
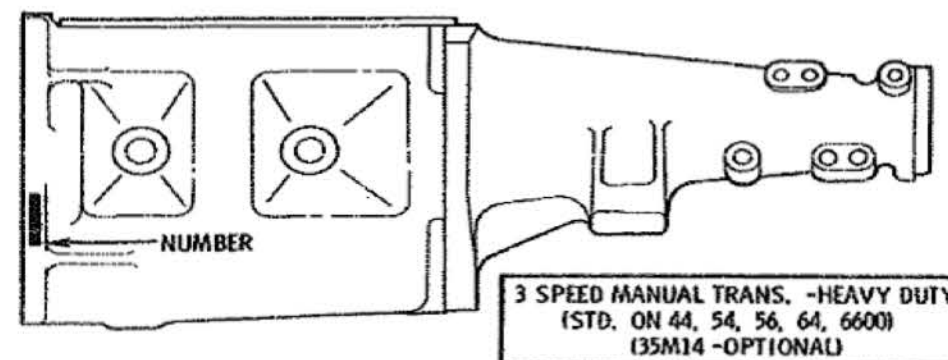
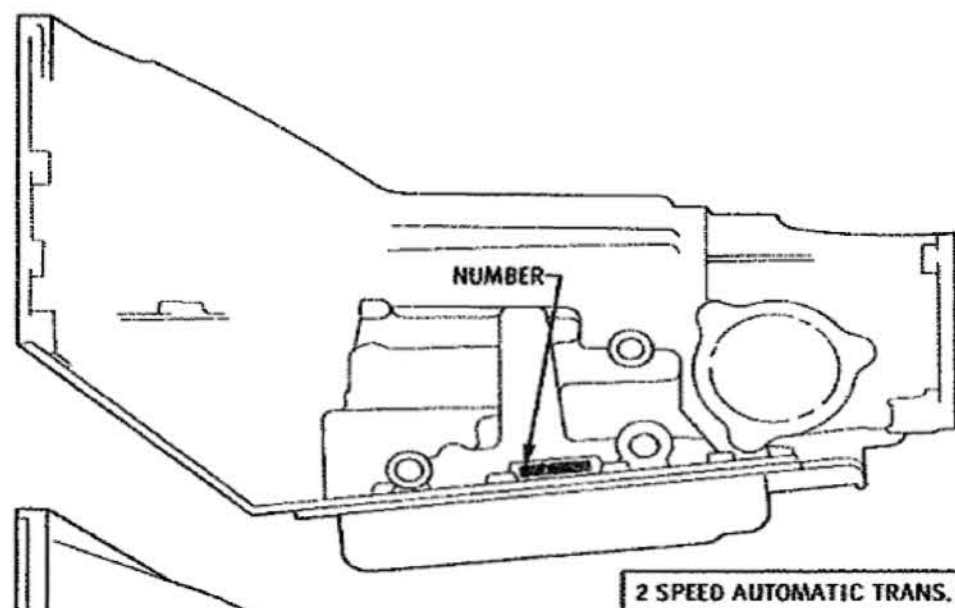
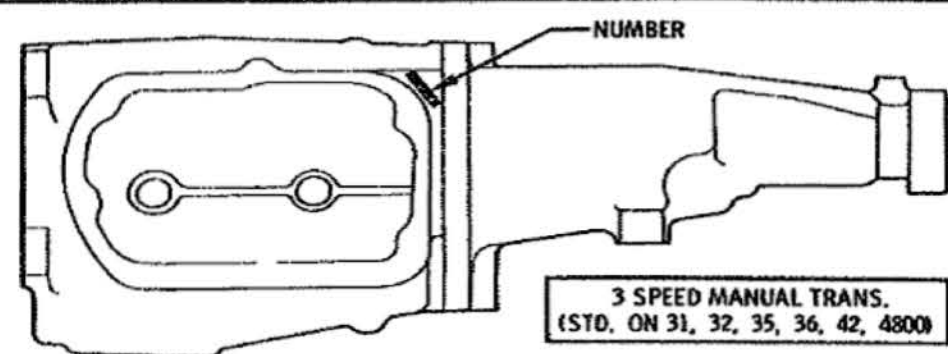
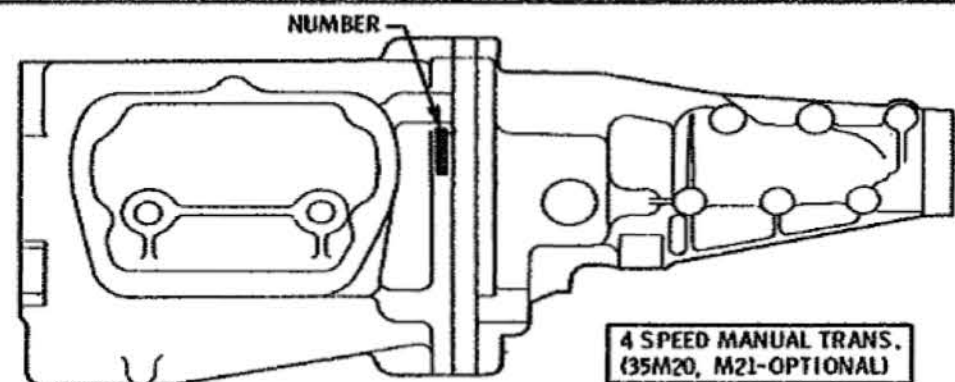
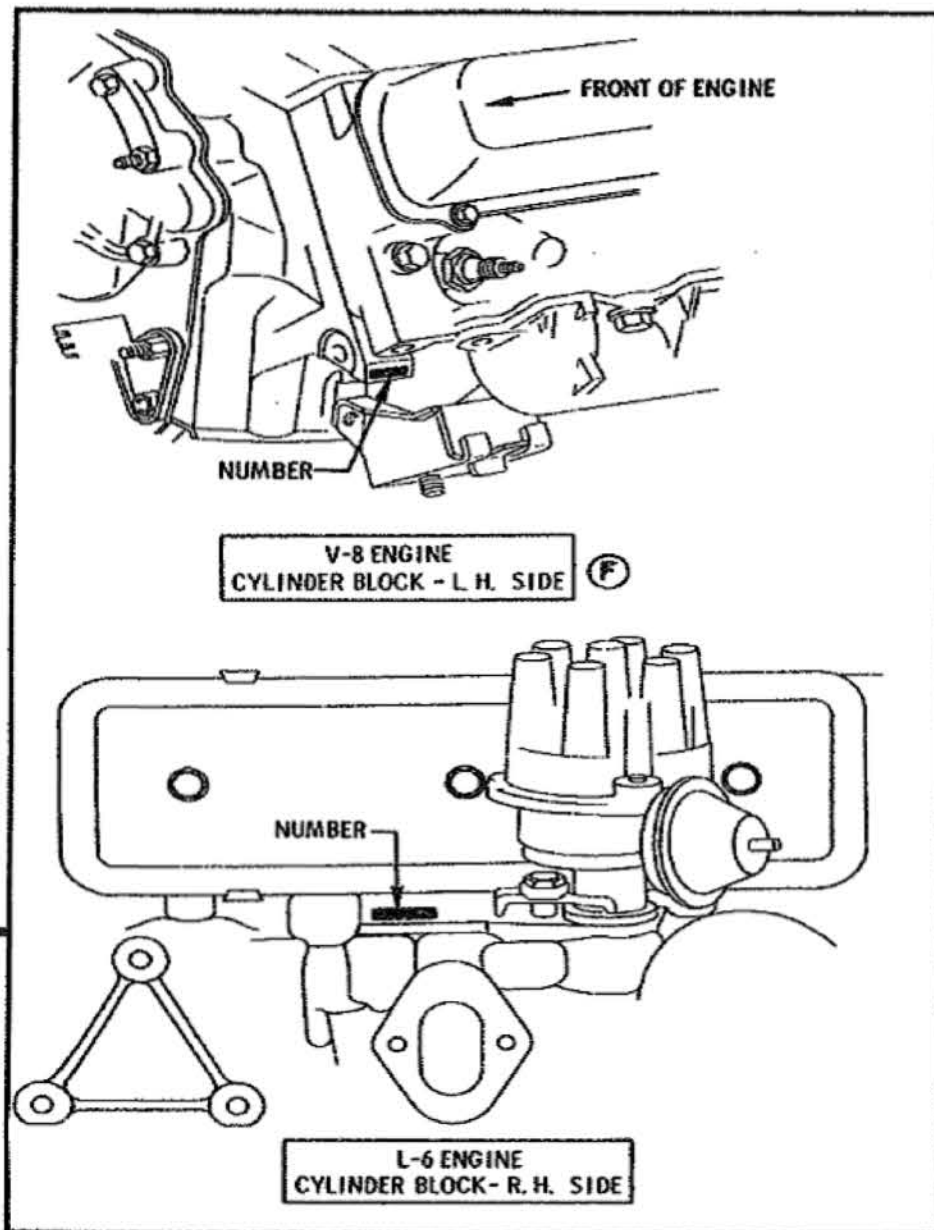
Column	Key Punch	Acc. Letter	Description
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			

LANSING PRODUCTION ONLY

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

9-34398-1, INC. 1966



EACH VEHICLE ENGINE AND TRANSMISSION MUST BE STAMPED WITH A DERIVATIVE OF THE VEHICLE IDENTIFICATION NUMBER. THIS NUMBER OMTS THE SERIES AND BODY STYLE AS FOLLOWS:
VEHICLE IDENTIFICATION NUMBER - 394878M100001
ENGINE AND TRANSMISSION PROTECTIVE NUMBER - 38M100001 (H)
SEE PAGE 117 FOR ADDITIONAL INFORMATION.

THE FOLLOWING REPAIR PROCEDURE WILL APPLY TO THE ABOVE STAMPED NUMBERS:
"WHEN NO MORE THAN TWO (2) OF THE NINE CHARACTERS ARE INCORRECT IT WILL BE PERMISSIBLE TO OBLITERATE ONLY THE INCORRECT CHARACTER (S) WITH AN "X" STAMP AND RESTAMP THE CORRECT CHARACTER (S) ABOVE OR BELOW. IN THOSE INSTANCES WHERE THREE (3) OR MORE CHARACTERS ARE ERRONEOUS THE ENTIRE NUMBER IS TO BE OBLITERATED WITH AN "X" STAMP AND RESTAMP THE CORRECT NUMBER ABOVE OR BELOW THE ORIGINAL. IN THOSE CASES WHERE SPACE DOES NOT PERMIT OBLITERATION AND RESTAMP, ABOVE OR BELOW, THE ENTIRE NUMBER IS TO BE GROUND OFF AND RESTAMPED."

NOTE

STAMP PROTECTIVE NUMBER ON L. H. SIDE OF TRANSMISSION AT LOCATION SHOWN

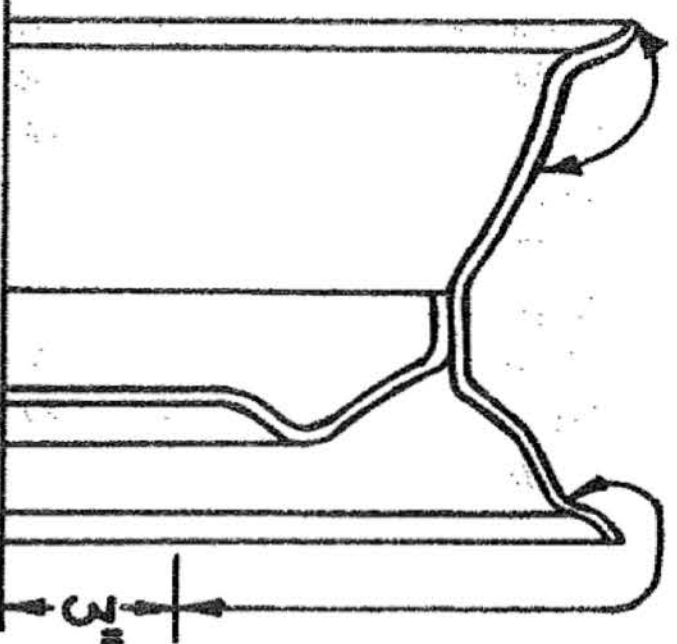
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
					8-3-67	J	TITLE REVISED	MB							
					8-3-67	H	STAMP NOTE ADDED	MB		4-17-67	D	REVISED & REDRAWN FRAME			
					6-12-67	G	NOTE ADDED	SJR		4-17-67	C	VIEW REVISED & REDRAWN			
					6-7-67	I	VIEW REVISED	MB		2-23-67	B	TITLE REVISED			
					6-7-67	E	NOTE REVISED	MB		2-23-67	A	VIEW REMOVED			

TITLE PROTECTIVE NUMBER STAMPING - ENGINE AND TRANSMISSION									
DATE	FEBRUARY 7, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	0	PAGE	170	
DR. BY	W.C. MASON	CHECKED	MB	SERIES	ABCE	PART NO.	398162-3-4		
APPR.	Sutton D... ..	REF.							

EXTERIOR PAINT CHART

DESCRIPTION		BODY & SHEET METAL - ACRYLIC	RINSHED-MASON CODE	FORBES CODE
COLOR CODE	"W" COLOR NAME	DU PONT CODE	MASON CODE	FORBES CODE
A	848 EBONY BLACK	942-96459	L61KD005 or I55KD011	710-360
C	2661 PROVINCIAL WHITE	868-93774	L61MD004 or I55MD004	710-178
D	3700 SAPPHIRE BLUE	867-98845	L62BD009 or I58BD009	720-3700
E	3760 NOCTURNE BLUE	867-98878	L62BD020 or I58BD020	720-3760
F	3762 TEAL FROST	867-98880	L62BD013 or I58BD013	720-3762
G	3720 WILLOW GOLD	867-98847	L62ID001 or I58ID001	720-3720
K	3761 OCEAN TURQUOISE	867-98879	L62BD010 or I58BD010	720-3761
L	3708 TEAL BLUE	867-98881	L62BD016 or I58BD016	720-3708
N	3821 BURGUNDY	867-99228	L62RD006 or I58RD006	720-3821
P	3726 SILVER GREEN	867-98876	L62GD012 or I58GD012	720-3726
R	3804 SCARLET	868-99130	L61RD004 or I55RD004	710-3804
S	3826 JADE GOLD	867-98998	L62ID002 or I58ID002	720-3826
T	3719 IVORY	868-98846	L61YD002 or I55YD002	710-3719
V	3730 JUNEAU GRAY	867-98875	L62GD001 or I58GD001	720-3730
Y	3313 SAFFRON	868-96908	L61YD013 or I55YD013	710-396

Note:
Underside of fenders are to be painted per
Paint Specification Chart #386230, Section I,
Page 1A.



NOTE:
All 14" wheels and 15" wheels with N94 are to be painted Ebony Black. 15" wheels less N94 are to be painted lower body color.
Back side of wheel, tire mounting surfaces and within a three inch radius of the wheel center-line are not to be painted, although fogging is permitted.

Added R-M codes. Revised all codes for paint N 4-26-67. Revised area of wheels to be painted.
Corrected codes for colors K, N, P and S. 6-20-67. Revised note to include paint instructions for 15" wheels 4-3-68.

CHART: PAINT & TRIM SPECIFICATIONS
ISSUED BY: G.T. JONES
DATE: 4-4-67
DWG. BY: R. DUSTAN
SHEET NO.: 1
PART NO.: 400966

RECOMMENDED PAINT & TRIM USAGE (SINGLE TONE)

		INTERIOR TRIM COLORS							
EXTERIOR		BLACK	JADE GOLD	BLUE	WILLOW GOLD	GARNET	TURQUOISE	PARCHMENT	TEAL
A	EBONY BLACK	X	X	X	X	X	X	X	X
C	PROVINCIAL WHITE	X	X	X	X	X	X	X	X
D	SAPPHIRE BLUE	X		X				X	
E	NOCTURNE BLUE	X		X				X	
F	TEAL FROST	X						X	X
G	WILLOW GOLD	X	X		X			X	
K	OCEAN TURQUOISE	X					X	X	
L	TEAL BLUE	X						X	X
N	BURGUNDY	X				X		X	
P	SILVER GREEN	X						X	
R	SCARLET	X				X		X	
S	JADE GOLD	X	X		X			X	
T	IVORY	X	X		X			X	
V	JUNEAU GRAY	X						X	
Y	SAFFRON	X						X	

CHART: PAINT & TRIM SPECIFICATIONS

ISSUED BY: G.T. JONES

DATE: 4-4-67 DWG. BY: R. DUSTAN

SHEET NO.: 3 PART NO.: 400965

TRIM COMBINATION CHART

SERIES & STYLES	TRIM COLORS & NUMBERS									
	BLACK	JADE GOLD	BLUE DK. BLUE*	WILLOW GOLD	GARNET	TURQUOISE	PARCHMENT	TEAL		
35469-35669 Town Sedan See Note #7 (bench)	300v		303	304v	305	306		309		
35439-35639 Holiday Sedan See Note #7 (bench)	320v		313	324v	315	316		329v		
35487-35687 Holiday Coupe See Note #7 (bench)	320v		313	324v	315			327v	329v	
35467-35687 Convertible (bench)	320v		323v	324v	325v			327v		
36469 Town Sedan See Note #7 (bench)	340v		343v	344		346			349	
36439 Holiday Sedan See Note #7 (notch-bench)	350v		353v	354		356		357v	359	
36487 Holiday Coupe See Note #7 (notch-bench)	350v		353v	354		356		357v	359	
36639 Holiday Sedan (notch-bench)	360v	362	363*			366		367v	369	
36687 Holiday Coupe (bucket)	360v 370v	362	363*			366		367v 377v	369	
38469 Town Sedan (bench)	010 900v	012	013*			016			019	
38439 Holiday Sedan (notch-bench)	020	022	023*	024		026		027v	029	
38457 Holiday Coupe (notch-bench)	020	022	023*			026		027v	029	
38467 Convertible (strato bench)	030v	032v	033v					037v		
38669 Luxury Sedan (armrest bench)	040 070v	042	043*	044		046			049	
38669 L.S. Royale Trim (armrest bench)	050 C-1									

NOTES:

- "v" after trim number denotes All-Vinyl trim.
- "C-I" after trim number denotes Cloth and Genuine Leather trim.
- Bucket seats are Strato Buckets.
- Models marked (bench) have Conventional Bench seats.
- Models marked (notch-bench) have Notch-Back Bench with folding center armrest.
- Models marked (armrest bench) have Bench seats with center armrest front and rear.
- 36469,87,39 trim combinations are available on 35469,87,39 - 35669,87,39 models on Custom Trim Option Y-71.

Added Note #7 4-26-67. Trim #010 (38469) phased out. Trims #024 (38439) and #044 (38669) phased into 1968 production 3-13-68.

CHART: PAINT & TRIM SPECIFICATIONS
ISSUED BY: G.T. JONES
DATE: 4-4-67
DWG. BY: R. DUSTAN
SHEET NO.: 5
PART NO.: 400966

MISCELLANEOUS TRIM MATERIALS

TRUNK TRIM:	TRUNK LINING	TRUNK (K.B.) BOARDS	USAGE	
			MODELS	TRIM COMB.
	Gray & Black Printed Rubber (485-T-5064)	Gray & Black Houndstooth Print (910-T-4267)	35400,35600 36400,36600	A11
	Gray-Black Needled Rayon (1257-T-1066)	Gray-Black Random Print (908-T-4267)	38400	A11
	Black Needled Rayon (1328-T-1067)	Black 811-T-4265	38669	040,050,070
	Bk. Blue Needled Rayon (1423-T-1068)	Dk. Blue 944-T-4268	38669	043,049
	Dk. Gold Needled Rayon (1417-T-1068)	Dk. Gold 943-T-4268	38669	042,044
	Dk. Turquoise Needled Rayon (1329-T-1067)	Dk. Turquoise 945-T-4268	38669	046

SPARE TIRE COVERS: (Standard Equipment)

DESCRIPTION	COLOR	USAGE	
		MODELS	TRIM COMB.
Printed K.B. Board (Houndstooth Check)	Gray & Black (910-T-4267)	35467* 35667*	A11
Printed K.B. Board (Random Pattern)	Gray-Black (908-T-4267)	38467*	A11
Full Trimmed Cover (Needled Rayon)	Black (1328-T-1067)	38669	040,050,070
Full Trimmed Cover (Needled Rayon)	Dk. Blue (1423-T-1068)	38669	043,049
Full Trimmed Cover (Needled Rayon)	Dk. Gold (1417-T-1068)	38669	042,044
Full Trimmed Cover (Needled Rayon)	Dk. Turquoise (1329-T-1067)	38669	046

* Standard tire cover is omitted on these models when optional tire cover (below) is ordered.

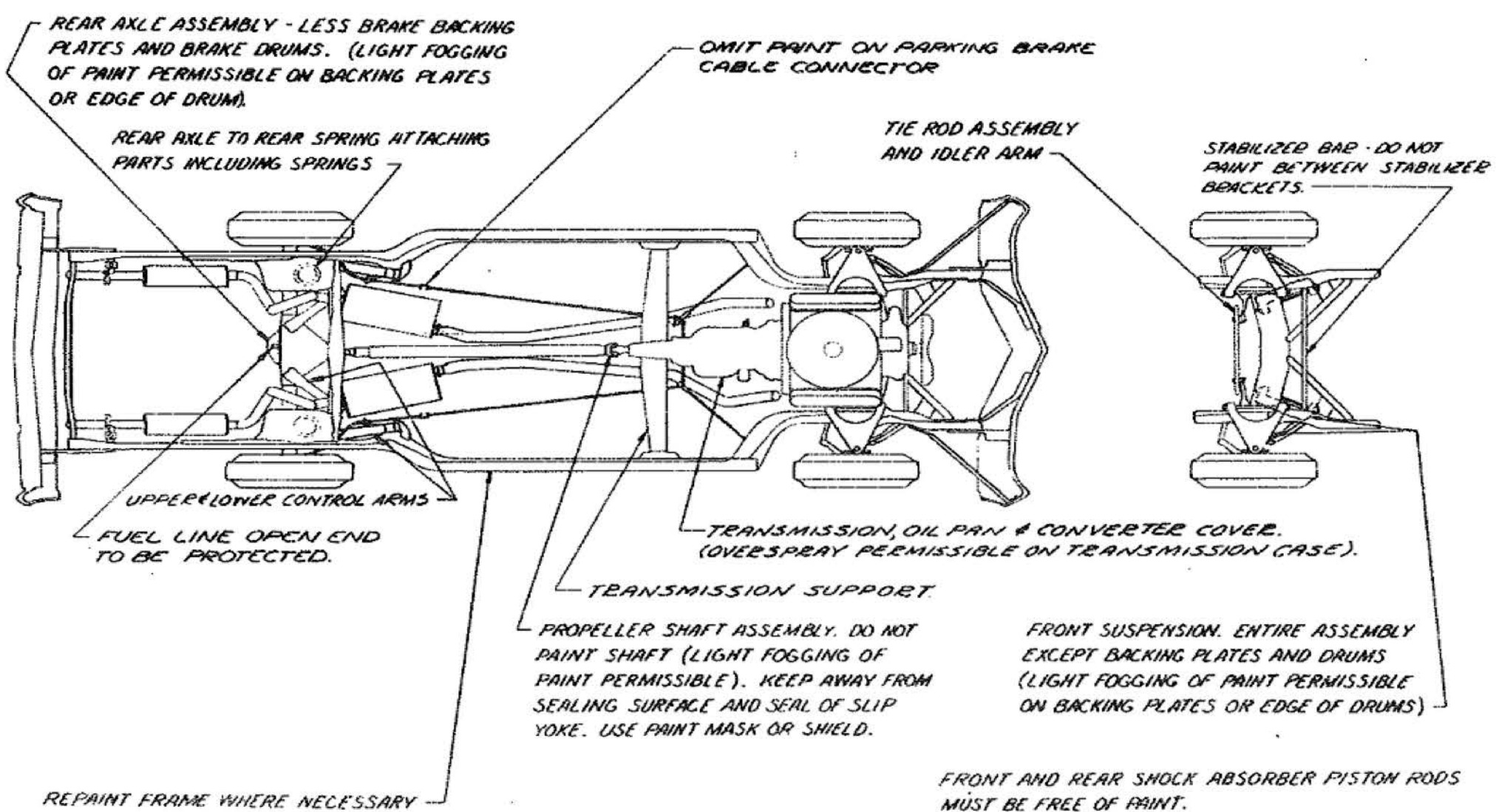
SPARE TIRE COVERS: (Optional Equipment)

DESCRIPTION	COLOR	USAGE	
		MODELS	TRIM COMB.
Full Trimmed Cover (Vinyl coated fabric Houndstooth print)	Gray & Black C.C.F.-SR#6423 (To match 485-T)	35400-35600 36400-36600	A11
Full Trimmed Cover (Needled Rayon)	Gray-Black (1257-T-1066)	38400	A11

Trim #044 added to upper two charts 3-13-68.

CHART: PAINT & TRIM SPECIFICATIONS
ISSUED BY: G.T. JONES
DATE: 4-4-67
DWG. BY: R. DUSTAN
SHEET NO.: 7
PART NO.: 400966

DATE	BY	REVISION RECORD	AUTHORITY	DR.	CR.
22367		WAS XC-84095			RD
6-21-67	A	MANUAL SECTION #			
		PAGE NO. ADDED	61		
	B				



NO. 400699
LAST CHANGE A

FINISH - PER OLDSMOBILE PAINT SPECIFICATION 386230.
CLASS G
SURFACE PREPARATION 000
PRIMER 000
COLOR COAT 310

ALL OTHER PARTS SPECIFICALLY COVERED ARE TO BE FINISHED AS PRESENTLY SPECIFIED EITHER BY PAINTING OR PLATING AND THOSE NOT DESIGNATED FOR FINISH ARE NOT TO BE PAINTED; FOR EXAMPLE, THE STEERING GEAR HOUSING IS NOT TO BE PAINTED.

TOLERANCES UNLESS OTHERWISE SPECIFIED ± .02 ALLOWED ON TWO PLACE DECIMALS ± .010 ALLOWED ON THREE PLACE DECIMALS ON ALL CASTINGS AND FORGINGS ALLOW FOR FINISH AS FOLLOWS F ₁ -.030; F ₂ -.05; F ₃ -.08; F ₄ -.12 ETC.	
COMMERCIAL TOLERANCES APPLY TO SHEET METAL GAUGES, TUBING, ROLLED, DRAWN OR EXTRUDED SECTIONS & STANDARD PARTS	
DO NOT SCALE	
DATE DWG JAN. 18, 1967	DR L. SEWARD
SCALE	CK HILL
FIRST USED 1968	APPR J.L. Leonard
	APPR R.E. Ford
REFERENCE	APPR
MATERIAL SPEC.	
NAME CHART-CHASSIS ASSEMBLY PAINT	
QTM C	PART NO. 400699

NO.	400699
LAST CHANGE	A
SEC.	PAGE
0	195

OLDSMOBILE DIVISION
GENERAL MOTORS CORPORATION
LANSING, MICHIGAN

B/C

THE SUB ASSEMBLIES, AS SHIPPED FOR FINAL ASSEMBLY, WILL BE DEHYDRATED, LEAK TESTED, AND CAPPED. THE COMPRESSOR WILL CONTAIN A HOLDING CHARGE.

FOLLOWING IS A LIST OF PRECAUTIONARY MEASURES TO BE TAKEN PRIOR TO AND DURING ASSEMBLY OPERATIONS OF THE FINAL UNIT, AND TESTING REQUIREMENTS.

"A" GENERAL PRECAUTIONS

1. ALL SUB ASSEMBLIES SHIPPED DEHYDRATED AND SEALED TIGHT ARE TO REMAIN SEALED UNTIL JUST PRIOR TO MAKING CONNECTIONS.
2. ALL SUB ASSEMBLIES SHOULD BE AT ROOM TEMPERATURE BEFORE UNCAPPING. THIS PREVENTS THE ENTRANCE OF AIR INTO THE SYSTEM AND FORMING CONDENSATION.
3. IF FOR ANY REASON THE CAPS REMOVED DURING ASSEMBLY OPERATION AND CONNECTIONS ARE NOT MADE, THE TUBES SHOULD NOT REMAIN UNSEALED FOR A PERIOD OF MORE THAN FIFTEEN (15) MINUTES. RESEAL, IF PERIOD IS LONGER.
4. RECEIVER DEHYDRATOR SHOULD NEVER BE LEFT UNCAPPED MORE THAN 5 MINUTES.
5. COMPRESSORS ARE SHIPPED WITH TEN AND ONE HALF (10.5) FLUID OUNCES OF OIL AND A 2 OZ. HOLDING CHARGE OF 80% NITROGEN AND 20% REFRIGERANT 12.
6. AT NO TIME SHOULD THE COMPRESSOR SHAFT BE ROTATED UNTIL THE COMPLETE SYSTEM IS ASSEMBLED AND CHARGED WITH REFRIGERANT 12.
7. DURING ALL OPERATIONS, NECESSARY PRECAUTION SHOULD BE TAKEN TO KEEP THE SYSTEM CLEAN AND DRY. PREVENT ANY DIRT OR MOISTURE FROM GETTING ON OR IN THE CONNECTIONS. IT IS PARTICULARLY IMPORTANT THAT NO DIRT OR MOISTURE GET WITHIN THE SYSTEM.

"B" ASSEMBLY

1. ALL PRECAUTIONS SHOULD BE TAKEN TO PREVENT DAMAGE TO FITTINGS OR CONNECTIONS. EVEN MINUTE DAMAGE TO THE CONNECTION COULD CAUSE IT TO LEAK.
2. ANY FITTINGS GETTING GREASE OR DIRT ON THEM SHOULD BE WIPED CLEAN WITH AN ALCOHOL DAMPENED CLOTH. DO NOT USE CHLORINATED SOLVENTS FOR A CLEANING AGENT, AS THEY ARE CONTAMINANTS. IF DIRT, GREASE, OR MOISTURE GET INSIDE THE PIPES AND CANNOT BE REMOVED, THE PIPE IS TO BE REPLACED.
3. SEALING CAPS SHOULD BE REMOVED FROM SUB ASSEMBLIES JUST PRIOR TO MAKING CONNECTIONS FOR FINAL ASSEMBLY.
4. DISCARD "O" RINGS ON PIPES. INSTALL NEW "O" RINGS COATED WITH CLEAN COMPRESSOR OIL ON PIPE ENDS. KEEP OIL CONTAINER SEALED.
5. MANDATORY, WHEN TIGHTENING OR LOOSENING PIPE FITTINGS, ALWAYS USE TWO (2) WRENCHES, USE AN OPEN END WRENCH TO HOLD THE SEAT STATIONARY.
6. SET COMPRESSOR BELT TENSION WITH BURROUGHS BELT GAGE #33-70.
7. CHECK AIR GAP BETWEEN CLUTCH ARMATURE PLATE AND PULLEY, GAP SHOULD BE .022 - .057.
8. IN ASSEMBLY, CARE MUST BE EXERCISED TO BE SURE THAT PIPES ARE NOT BENT OR MUTILATED THROUGH CARELESSNESS, OR DELIBERATELY BENT TO FACILITATE ANOTHER OPERATION.
9. FLEXIBLE HOSES ARE TO BE ROUTED AND FITTINGS ARE TO BE TIGHTENED SO THAT HOSES ASSUME NATURAL CURVES, FREE OF TWIST OR STRAIN.
10. COMPLETED SYSTEMS ARE TO BE CHECKED FOR PIPES GROUNDING OUT ON SHEET METAL COMPONENTS. ANY DIRECT CONTACT OF PIPES AND SHEET METAL PARTS IS TO BE ELIMINATED.

"C" LEAK TESTING

1. INSTALL CHARGING MANIFOLD GAUGE SET LINES TO GAUGE FITTINGS ON FREEZE CONTROL VALVE AND DISCHARGE HOSE ASSEMBLIES. (PURGE LINES BEFORE CONNECTING TO SYSTEM).
2. OPEN GAUGE VALVES, PULL VACUUM UNTIL 28" VACUUM IS OBTAINED. CLOSE VACUUM PUMP VALVE AND STOP PUMP. OBSERVE GAUGE. IF LOSS OF VACUUM OCCURS, A LEAK IS IN SYSTEM. CHECK ALL CONNECTIONS IN SYSTEM FOR TIGHTNESS. ADD SMALL AMOUNT OF REFRIGERANT 12 TO SYSTEM. CHECK FOR LEAK WITH G. E. ELECTRONIC DETECTOR OR EQUIV. REGULAR MAINTENANCE AND PERIODIC CHECKS FOR SENSITIVITY LEVEL ARE A MUST. TWICE PER SHIFT--ONCE EVERY (4) HOURS IS RECOMMENDED. CORRECT LEAK, REPEAT PROCEDURE UNTIL ALL LEAKS ARE CORRECTED.
3. PULL VACUUM FOR CHARGING PROCEDURE TO 28". (SUBTRACT 1.00" HG. FOR EACH 1000' OF ALTITUDE) (EXAMPLE FOR 5000' USE 23" HG.).

"D" CHARGING SYSTEM

1. ALWAYS PURGE CHARGING LINES BEFORE PERMITTING CHARGE TO ENTER SYSTEM.
2. CHARGING SHOULD BE DONE AT 70° F. MINIMUM TEMPERATURE.
3. WITH ALL LEAKS CORRECTED AND VACUUM HELD IN SYSTEM TO 28", CHARGE SYSTEM WITH INITIAL CHARGE OF REFRIGERANT 12.
4. CLOSE HIGH PRESSURE LINES ON GAUGE SET.
5. START ENGINE OR AUXILIARY POWER AND OPERATE AT SPEED CORRESPONDING TO 1500 ENGINE R. P. M. NORMAL CONTROL POSITION MUST BE SELECTED AND CONTROL MUST BE SET TO FULL COLD POSITION AND FAN POSITION AS SHOWN BELOW DEPENDING ON THE ATMOSPHERIC TEMPERATURE.

ATMOSPHERIC TEMPERATURE °F.	FAN SWITCH POSITION
70 - 80°	HIGH
80 - 90°	MEDIUM
90°	LOW

OR AUTOMATIC

CHARGE UNTIL LIQUID LINE INDICATOR SHOWS CLEAR. THEN ADD ONE QUARTER (1/4) POUND. REFRIGERANT 12 CHARGE: F85 & E - 4.00#, B/C - 4.50#.

6. SHUT OFF ENGINE AND DISCONNECT CHARGING LINES. INSTALL CAPS ON SERVICE VALVES.
7. MAKE FINAL CHECK FOR LEAKS AT THIS TIME. MAXIMUM LEAK RATE: ONE (1) POUND IN FIFTY (50) YEARS AT ALL POINTS EXCEPT COMPRESSOR SEAL WHERE A LEAK RATE OF ONE (1) POUND IN FIFTEEN (15) YEARS WILL BE ACCEPTABLE.

* NOT REQUIRED IF EQUIPMENT IS USED TO FORCE COMPLETE CHARGE INTO SYSTEM.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

TITLE		CHART - AIR CONDITIONING PROCEDURE	
DATE	FEB. 4, 1967	FIRST USED	1968
DR. BY	K. LOVELL	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION
CHECKED	DOY MALKIN		0
APPR.		SERIES	PAGE
		ABCE	200
		PART NO.	400319

TYPICAL TEST DATA FOR 1968 "B" & "C"

RELATIVE HUMIDITY	IN FRONT OF CONDENSER		EVAPORATOR PRESSURE AT SUCTION THROTTLING VALVE PSI ±1	ENGINE R.P.M.	DISCHARGE AIR TEMP. R.H. NOZZLE ±2° F.	PRESSURE HIGH (DISCHARGE) ±20 PSI
	RELATIVE HUMIDITY	AIR TEMP. ° F.				
20	70	28.5	2000	37.0	59.0	300
	80	28.5				
	90	28.5				
	100	34.0				
	110	40.5				
30	70	28.5	2000	37.0	56.0	319
	80	28.5				
	90	30.5				
	100	36.0				
	110	43.0				
40	70	28.5	2000	37.5	61.0	339
	80	28.5				
	90	32.0				
	100	38.0				
	110	45.0				
50	70	28.5	2000	40.0	66.0	355
	80	29.5				
	90	33.5				
	100	40.5				
	110	48.0				
60	70	28.5	2000	42.0	60.0	330
	80	30.0				
	90	35.0				
	100	43.0				
	110	50.0				
70	70	28.5	2000	44.0	55.0	345
	80	30.0				
	90	36.0				
	100	45.0				
	110	55.0				
80	70	28.5	2000	46.0	67.0	362
	80	31.0				
	90	37.5				
	100	49.0				
	110	61.0				
90	70	28.5	2000	48.0	72.0	368
	80	32.0				
	90	39.0				
	100	50.0				
	110	62.0				

(A)

FOR AIR CONDITIONING PROCEDURE,
SEE CHART # 400319 SHEETS 1 & 2

										TITLE AIR CONDITIONING TEST DATA	
						DATE APRIL 12, 1967		FIRST USED 1968		OLDSMOBILE PRODUCT INFORMATION MANUAL	
						DR. BY G. W. BURRIS		MANUAL SEC. 0		PAGE 205	
						CHECKED JAMES		SERIES B-C		PART NO. 401144	
						APPR.		REF.			
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.
						6568 A		28.5 WAS 29.0			

FUNCTIONAL TEST

ALL CARS MUST PASS THE FOLLOWING FUNCTIONAL TEST. TEST TO BE MADE WITH ENGINE OPERATING AND COOLANT WARM. AMBIENT TEMPERATURE BETWEEN 65° F. AND 85° F.

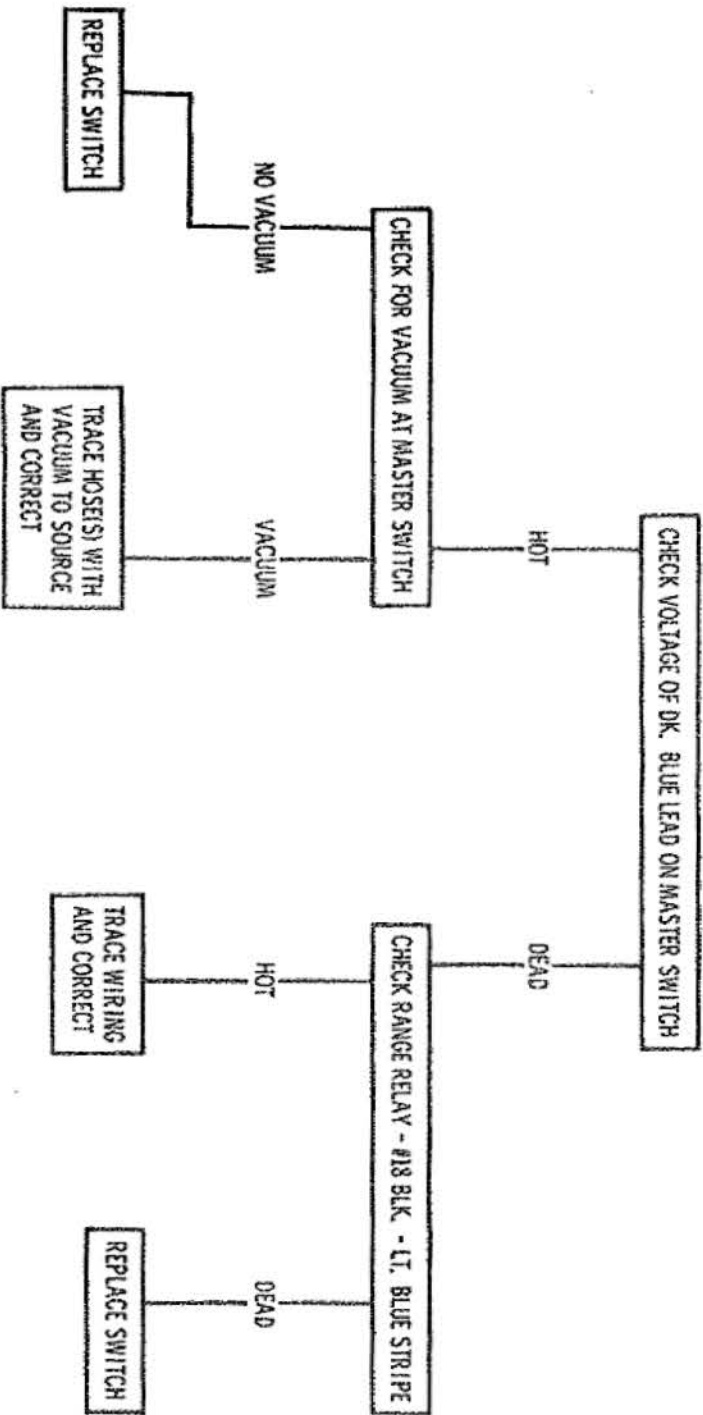
1. SET CONTROL LEVER IN OFF POSITION. ROTATE TEMPERATURE DIAL TO MAX. HEAT POSITION (85).
 - A. NO AIR FLOW FROM ANY OUTLETS.
2. MOVE CONTROL LEVER TO NORMAL LOW POSITION.
 - A. BLOWER COMES ON HIGH SPEED.
 - B. HOT AIR COMES CHIEFLY FROM HEATER OUTLET WITH SOME AIR FROM DEFROSTER OUTLETS.
3. MOVE CONTROL LEVER TO NORMAL HIGH POSITION.
 - A. BLOWER SPEED AND AIR FLOW INCREASES.
4. ROTATE TEMPERATURE DIAL TO MAX. COLD POSITION. (65°).
 - A. COLD AIR COMES FROM AIR CONDITIONING OUTLETS.
 - B. BLOWER SPEED GOES FROM HIGH DOWN THROUGH LOW AND UP TO HIGH.
5. MOVE CONTROL LEVER TO DEFROST POSITION.
 - A. COLD AIR COMES CHIEFLY FROM DEFROSTER OUTLETS, WITH SOME AIR FROM HEATER OUTLET.
6. MOVE CONTROL LEVER TO DE-ICE POSITION.
 - A. HOT AIR COMES CHIEFLY FROM DEFROSTER OUTLETS, WITH SOME AIR FROM HEATER OUTLET.
 - B. BLOWER OPERATING ON HIGH SPEED.

FUNCTIONAL TEST ITEM I-A

AIR SHOULD NOT FLOW FROM ANY OUTLET
BUT
AIR DOES FLOW FROM OUTLETS

TEST CONDITIONS:

1. SET CONTROL LEVER IN "OFF" POSITION.
2. SET TEMPERATURE DIAL TO MAX. WARM POSITION (85° OR HIGHER).
3. ENGINE OPERATING AND COOLANT WARM.
4. TESTER IS USED AS A VOLTMETER.



TITLE										CHART - COMFORTRON TEST & DIAGNOSIS		
DATE <i>D.J. SCOTT</i>					FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION	PAGE
DR. BY <i>FEB. 4, 1967</i>											0	210
CHECKED <i>DON MALKIN</i>											PART NO. 400396	
APPR. <i>K.E. M...</i>											SERIES B-C	
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.

FUNCTIONAL TEST ITEM 2-A

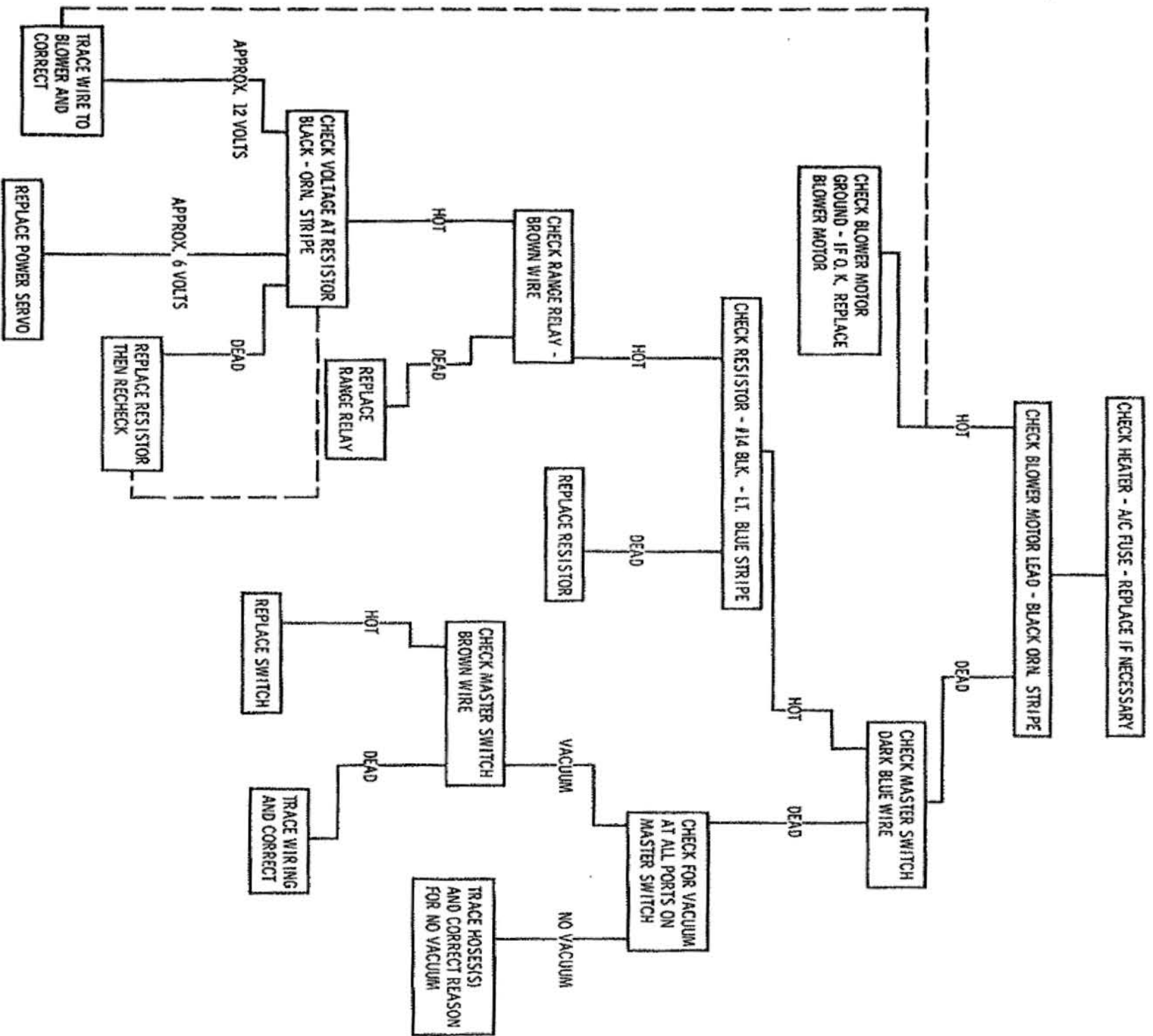
SHEET 2

BLOWER SHOULD COME ON HIGH SPEED
BUT
BLOWER DOES NOT COME ON HIGH SPEED

TEST CONDITIONS:

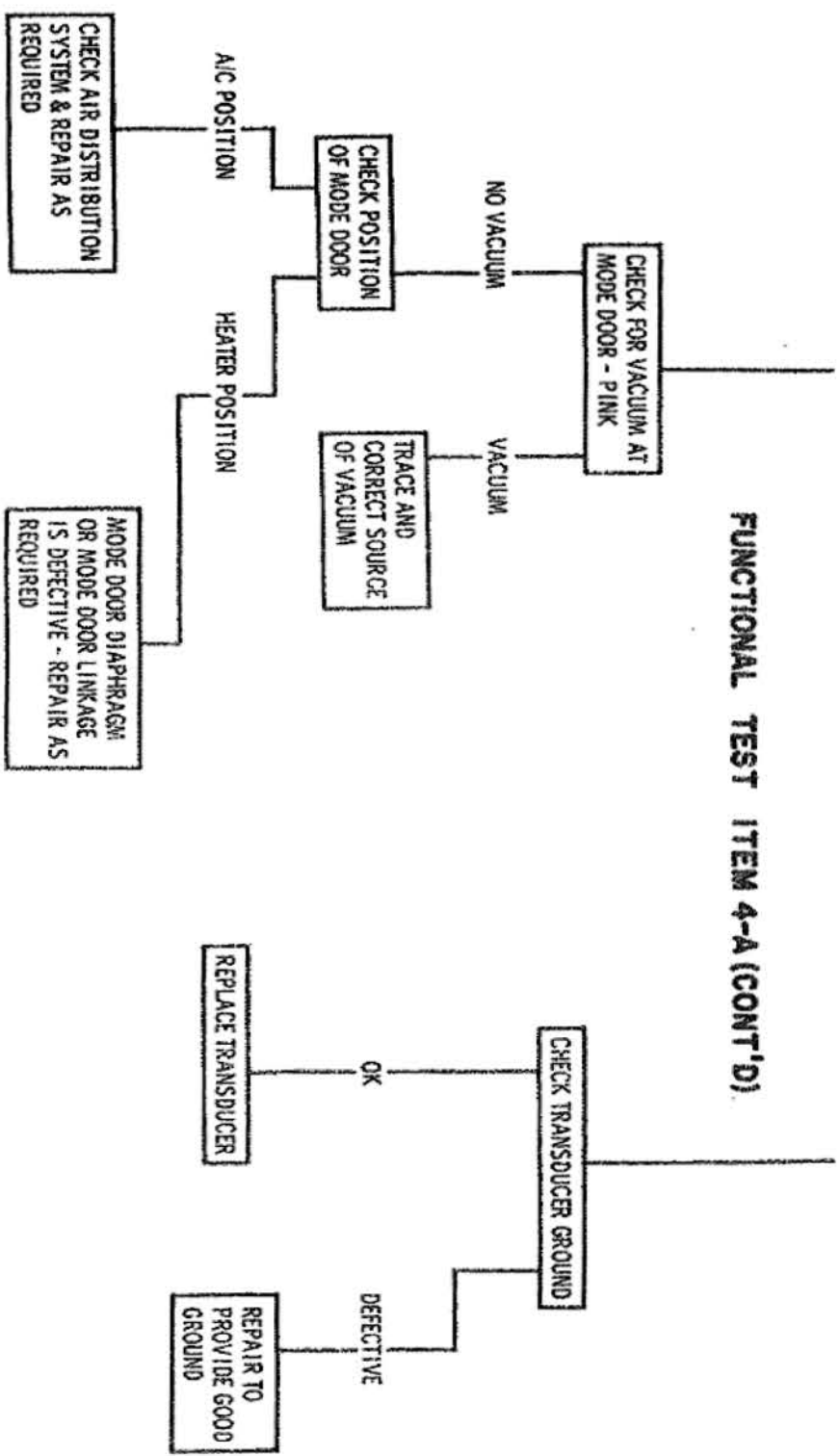
1. SET CONTROL LEVER IN NORMAL "LOW" POSITION.
2. ROTATE TEMPERATURE DIAL TO MAX. WARM POSITION (85° F. OR HIGHER).
3. ENGINE OPERATING AND COOLANT WARM.
4. TESTER USED AS VOLTMETER.

NOTE: IF AMBIENT TEMPERATURE IS HIGH OR THE IN-CAR TEMPERATURE IS HIGH (85° F. OR HIGHER), THE BLOWER WILL NOT STAY ON "HI". TO RUN THIS PROCEDURE UNDER HIGH TEMPERATURE CONDITIONS, REMOVE POWER CYLINDER HOSE FROM POWER SERVO AND SEAL THE HOSE. APPLY 12" HG. OF VACUUM ON THE POWER SERVO SO THAT THE POWER SERVO ARM GOES TO FULL WARM POSITION (DOOR LINK FULL LEFT).



WHEN THIS PROCEDURE IS COMPLETED, THE VACUUM HOSE SHOULD BE REPLACED IF REMOVED AS NOTED AT THE BEGINNING (FOR HIGH AMBIENT CONDITIONS). THIS MUST BE DONE BEFORE CONTINUING ON WITH THE FUNCTIONAL TEST.

TITLE															CHART - COMFORTRON TEST & DIAGNOSIS						
DATE <i>FEB. 3, 1967</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE					
DR. BY <i>D. J. SCOTT</i>										1968		INFORMATION MANUAL		0		211					
CHECKED <i>DON WALKIN</i>										REF.		SERIES		PART NO.		400396					
APPR. <i>E. E. Maloney</i>										APPR.		B-C									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM



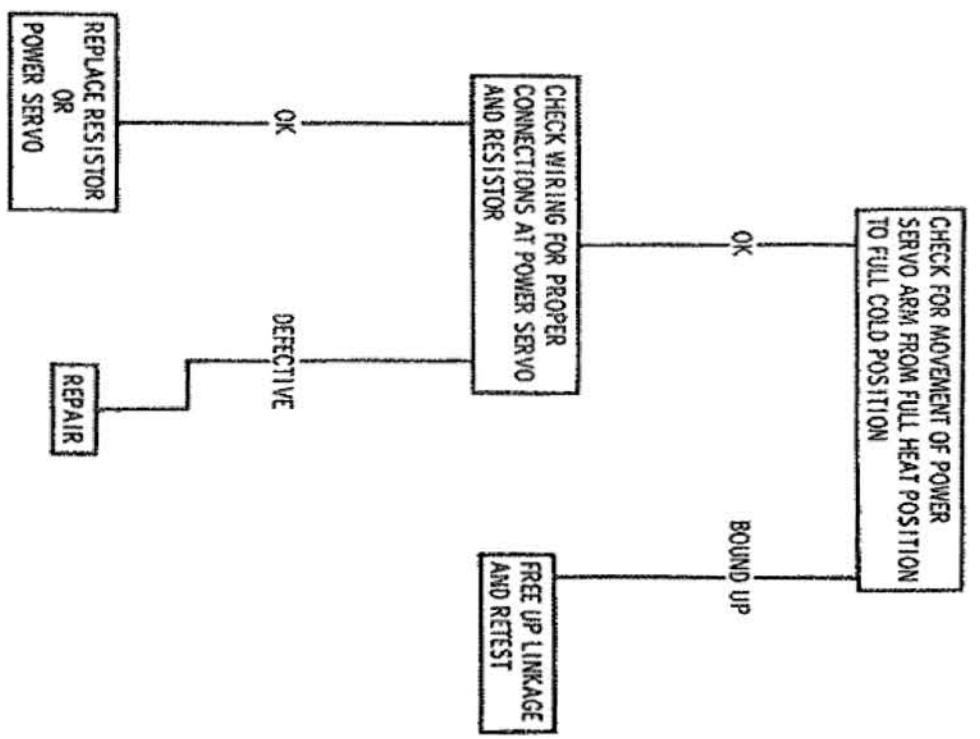
FUNCTIONAL TEST ITEM 4-B

BLOWER SPEED SHOULD GO FROM HIGH DOWN THROUGH LOW AND UP TO HIGH
BUT
BLOWER SPEED DOES NOT GO FROM HIGH DOWN THROUGH LOW AND UP TO HIGH

TEST CONDITIONS:

1. SET CONTROL LEVER IN NORMAL "HIGH" POSITION.
2. SET TEMPERATURE DIAL IN MAX. WARM POSITION (85° OR HIGHER) - FUNCTION TEST IS TO ROTATE DIAL FROM FULL WARM TO FULL COLD.
3. ENGINE OPERATING AND COOLANT WARM.

NOTE: HIGH-LOW-HIGH BLOWER CHANGES ARE ONLY TRANSIENT AS THE POWER SERVO GOES FROM MAXIMUM HEAT TO MAXIMUM COLD IN THE FUNCTION TEST.



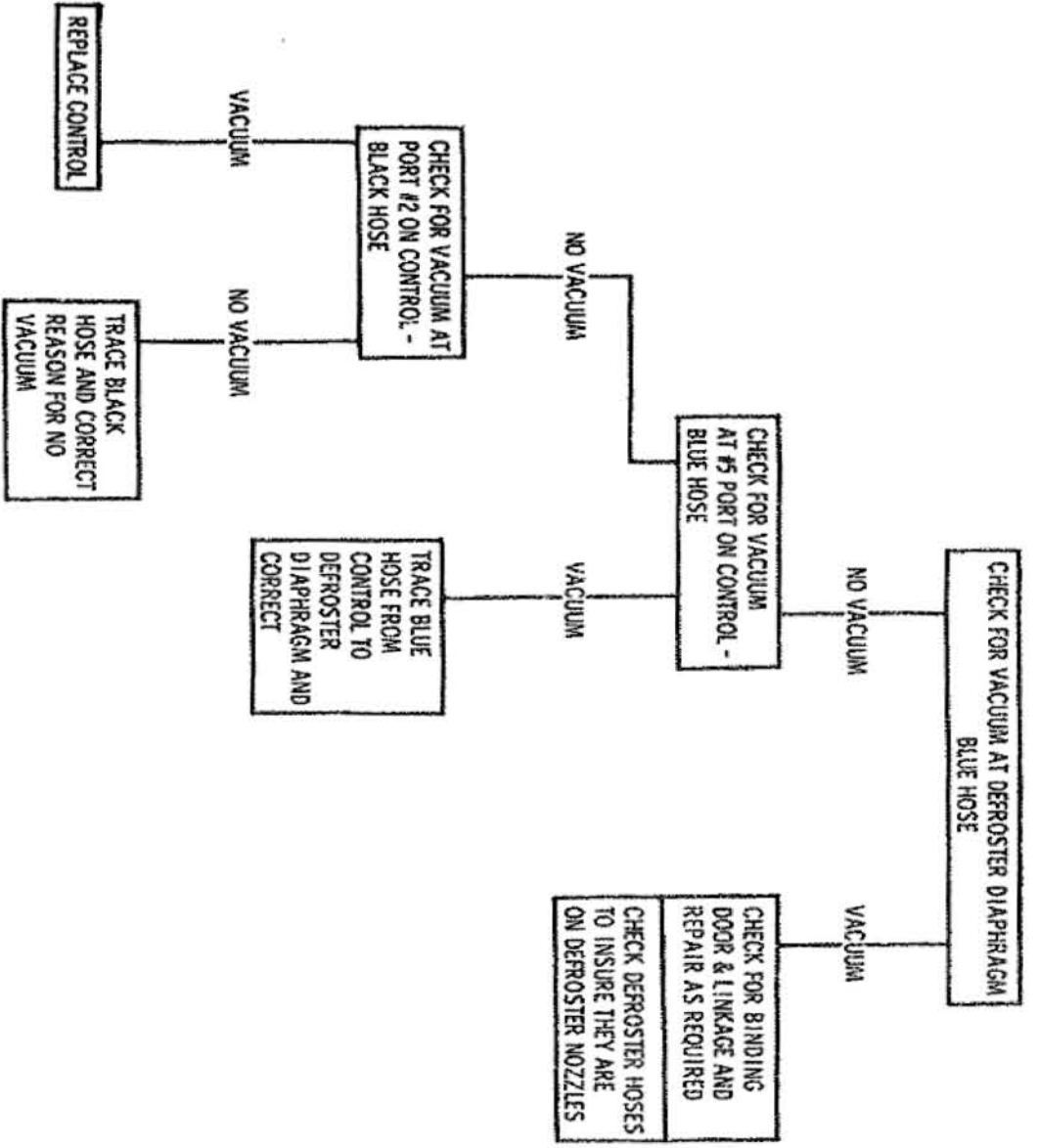
TITLE										CHART - COMFORTRON TEST & DIAGNOSIS										
DATE <i>FEBRUARY 9, 1967</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE				
DR. BY <i>RODNEY DAVIS</i>										1968		INFORMATION MANUAL		O		216				
CHECKED <i>DON WALKIN</i>										REF.		SERIES		PART NO.						
APPR. <i>K.E. Mahoney</i>												B-C		400396						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

FUNCTIONAL TEST ITEM 5-A

COLD AIR SHOULD COME FROM DEFROSTER OUTLETS
BUT
COLD AIR DOES NOT COME FROM DEFROSTER OUTLETS

TEST CONDITIONS:

1. SET CONTROL LEVER IN "DEFROST" POSITION.
2. ROTATE TEMPERATURE DIAL TO MAX. COLD POSITION (69 OR LESS).
3. ENGINE OPERATING AND COOLANT WARM.

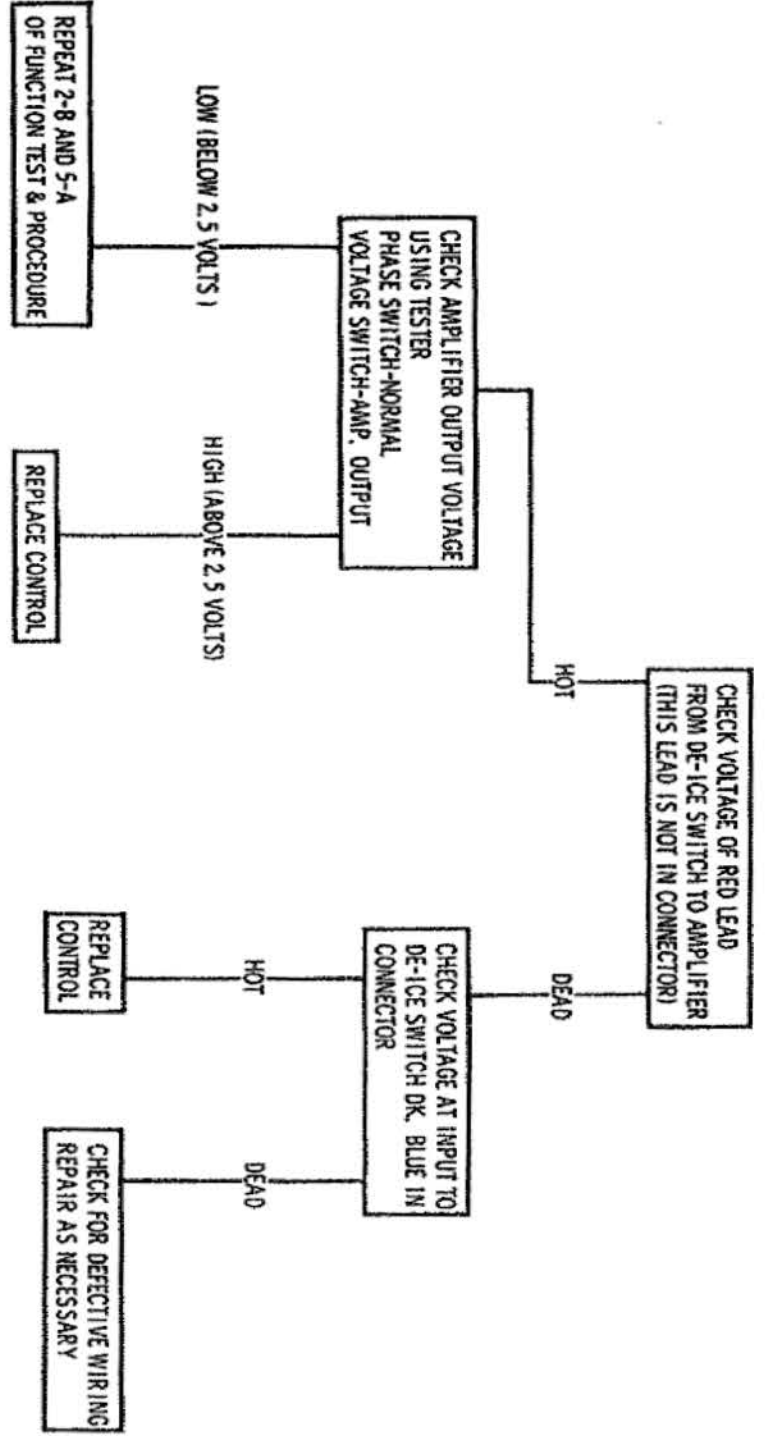


FUNCTIONAL TEST ITEM 6-A

HOT AIR SHOULD COME FROM DEFROSTER OUTLETS
BUT
HOT AIR DOES NOT COME FROM DEFROSTER OUTLETS

TEST CONDITIONS:

1. SET CONTROL LEVER IN DE-ICE POSITION.
2. SET TEMPERATURE CONTROL DIAL IN FULL COLD POSITION (69 OR LESS).
3. ENGINE OPERATING AND COOLANT WARM.
4. TESTER IS USED AS A VOLTMETER AND AT AMPLIFIER AS REQUIRED.



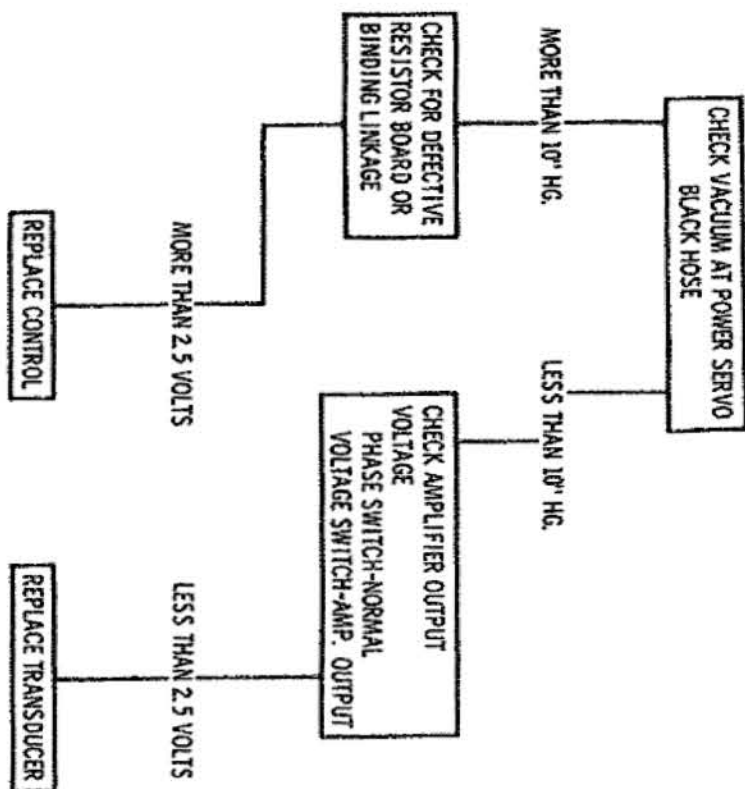
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
																		TITLE: CHART - COMFORTRON TEST & DIAGNOSIS DATE: FEB. 9, 1967 DR. BY: J. ACKERT CHECKED: DON MALKIN APPR. K. E. Malinba										FIRST USED: 1968 REF.:		OLDSMOBILE PRODUCT INFORMATION MANUAL SERIES: B-C PART NO.: 400396			MANUAL SECTION: 0 PAGE: 217																																				

FUNCTIONAL TEST ITEM 6-B

BLOWER SHOULD OPERATE ON HIGH SPEED
 BUT
 BLOWER DOES NOT OPERATE ON HIGH SPEED

TEST CONDITIONS:

1. SET CONTROL LEVER IN DE-ICE POSITION.
2. ROTATE TEMPERATURE DIAL TO FULL COLD POSITION (65 OR LESS).
3. ENGINE OPERATING AND COOLANT WARM.
4. TESTER USED AS A VOLTMETER, VACUUM GAGE AND AMPLIFIER CHECK.



SHEET 9

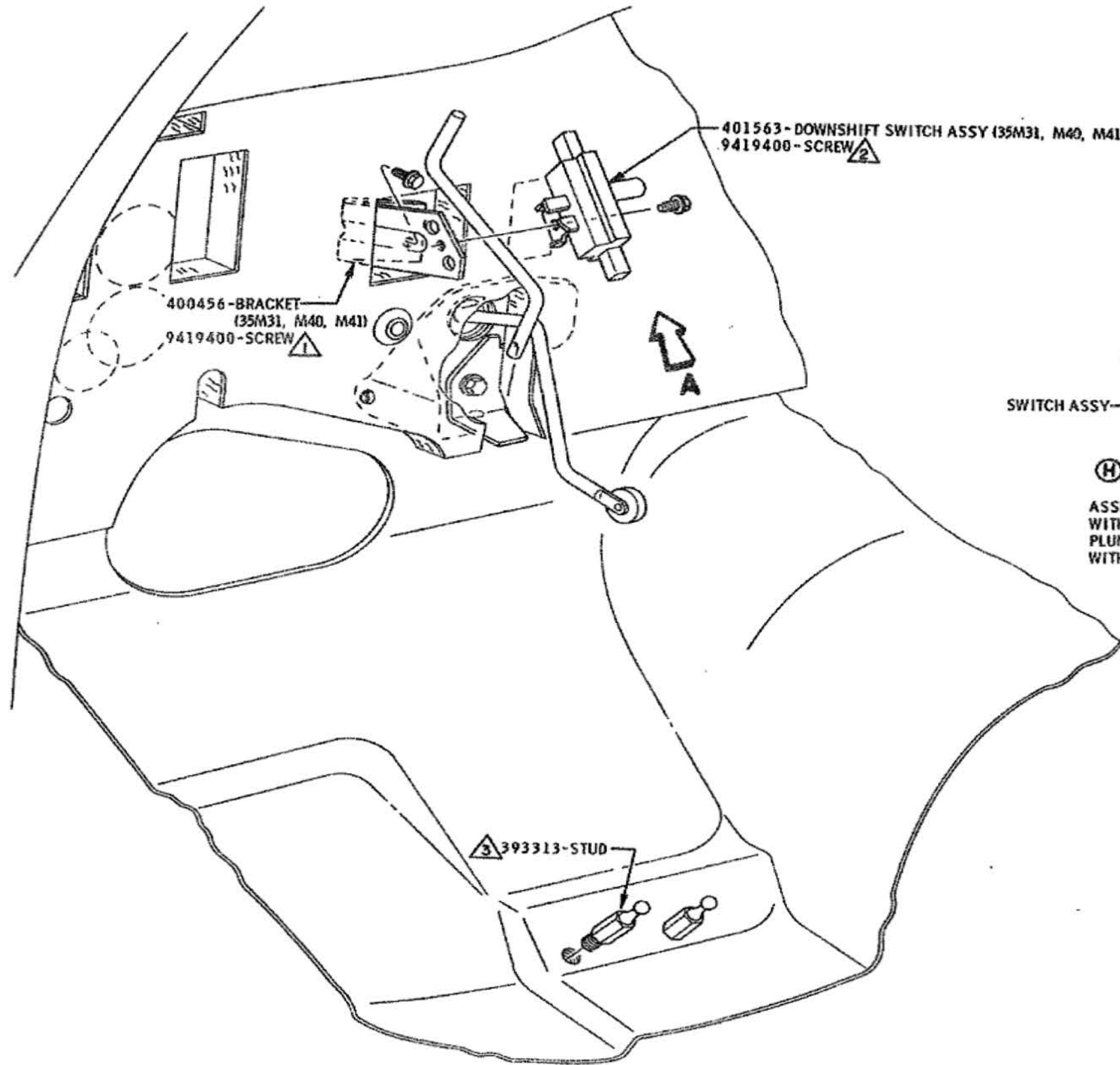
TITLE												CHART - COMFORTRON TEST & DIAGNOSIS									
DATE						FEB. 9, 1967						FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE	
DR. BY						J. ACKERT										O		218			
CHECKED						DON MALNIN						REF.				SERIES		PART NO.			
APPR.						K E Mc... [Signature]										B - C		400396			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM

CRUISE CONTROL AUDIT SPECIFICATIONS

AFTER CRUISE CONTROL IS INSTALLED,
ROAD TEST AS FOLLOWS:

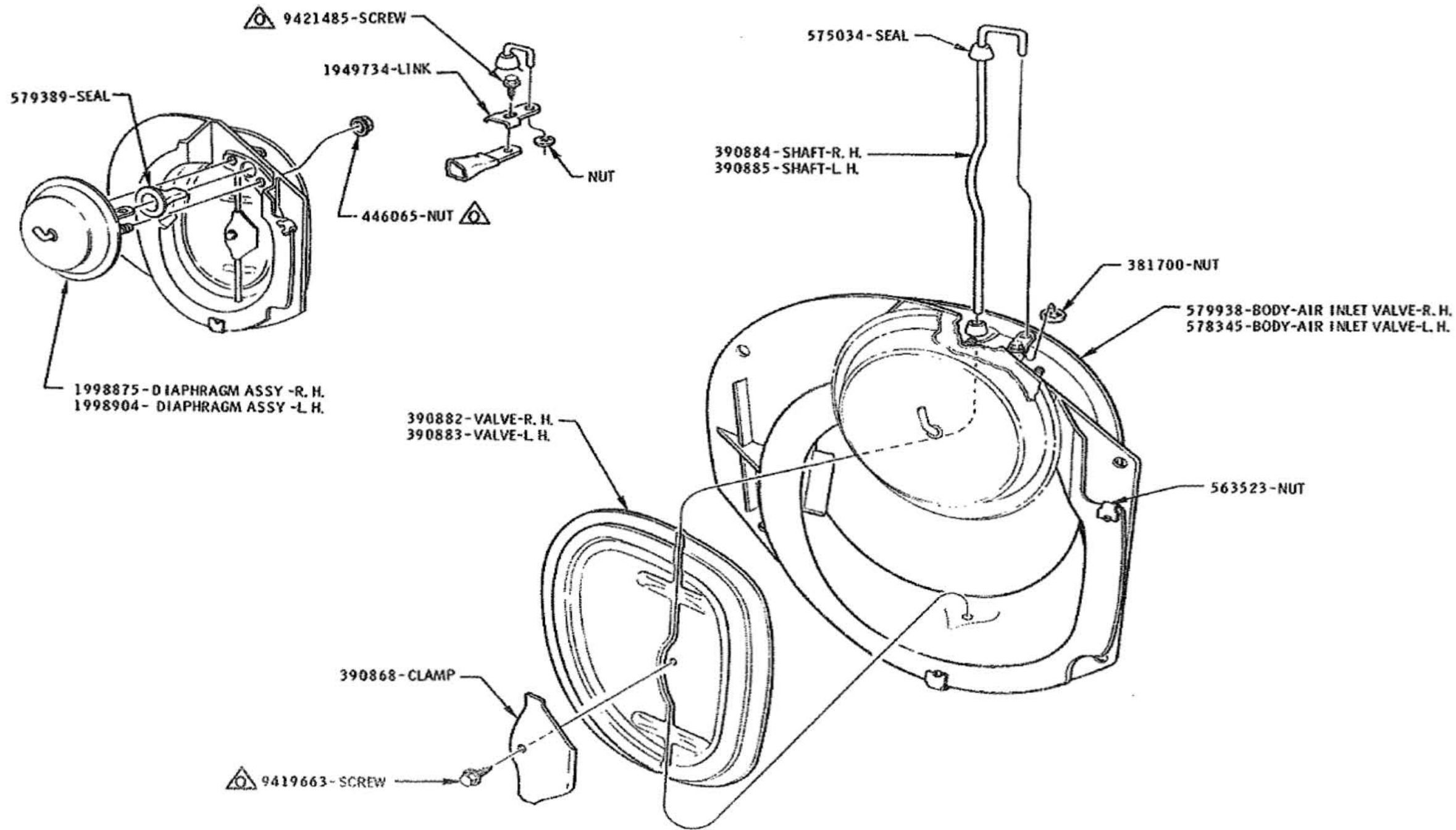
1. SET CONTROL DIAL FOR LOWEST SPEED.
2. WITH CAR RUNNING, PUSH BUTTON TO AUTO POSITION.
3. BRING CAR SPEED UP UNTIL BACK PRESSURE IS FELT ON ACCELERATOR PEDAL. THIS SHOULD BE FROM 28 TO 33 M. P. H. REMOVE FOOT FROM ACCELERATOR AND OBSERVE THAT UNIT IS LOCKED IN AND CONTROLS SPEED.
4. CHECK FOR THROTTLE RELEASE BY DEPRESSING BRAKE PEDAL 3/8".
5. REPEAT STEP 3.
6. CHECK FOR THROTTLE RELEASE BY PUSHING CRUISE CONTROL SWITCH TO "OFF" POSITION.
7. PUSH SWITCH TO "ON" POSITION WITHOUT TRAVELING TO AUTO POSITION AND REPEAT STEP 3. THROTTLE SHOULD RETURN TO IDLE POSITION, INDICATING IT IS NOT LOCKED IN.

										TITLE		CHART - 35K30 AUDIT SPECIFICATIONS		
										DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
										JULY 19, 1967	1968		O	350
										DR. BY DON MALKIN				
										CHECKED R. Carroll				
										1967 A TITLE REVISED	KLJ	SERIES	PART NO.	
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	B-C	398163	



- ¹ 15 - 25 LB. IN.
- ² 25 - 35 LB. IN. **(F)**
- ³ 60 - 90 LB. IN.

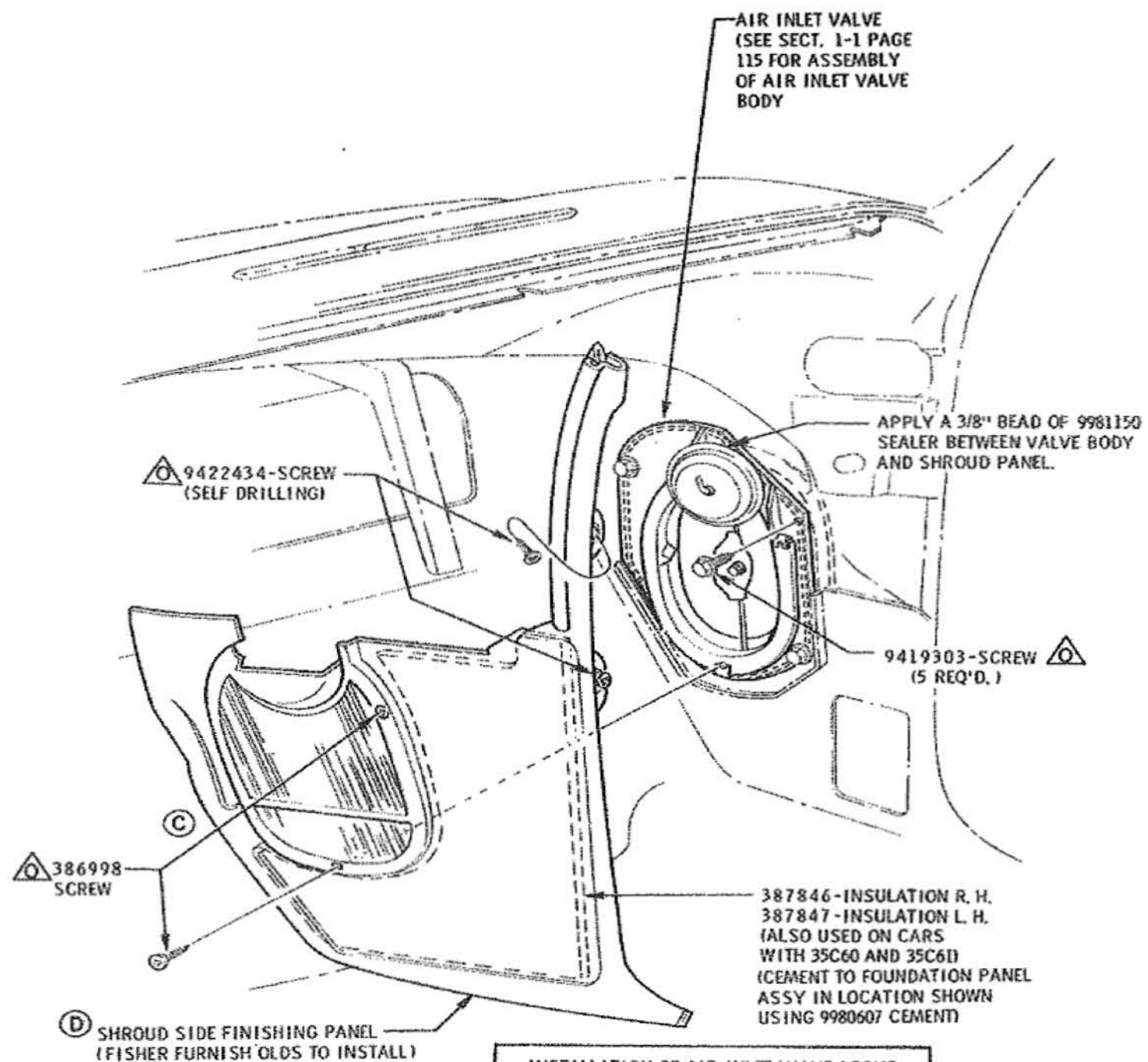
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					8-4-67	E	WAS 108-156 LB. IN.									THROTTLE CONTROL				
					6-30-67	D	WAS 97B.32A1									DATE FEBRUARY 21, 1967	1968		1-1	113
					5-26-67	C	PART NOS. REMOVED									DR. BY W.E. MASON				
					4-24-67	B	USAGE REVISED									CHECKED <i>W. Barnhart</i>				
					3-7-67	A	WAS 9419654									APPR. <i>F. ROENOWSKI</i>				
					8-20-67	F	TORQUE'S REVISED										REF. LN2, 35M40, M41			
																	SERIES			
																		B-C		
																				PART NO. 398163



R. H. VALVE BODY SHOWN
L. H. VALVE BODY SIMILAR

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE										VALVE BODY ASSEMBLY			
DATE	NOV. 2, 1966	FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SECTION	1-1	PAGE	115					
DR. BY	B. B. PARKER	CHECKED	J. H.	INFORMATION MANUAL									
APPR. BY	SCH. T. VILCO	REF.	1A2C	SERIES	B-C	PART NO.	398163						
DATE	7-6-67	SYMBOL	A	REVISION	TORQUE NOTE ADDED								



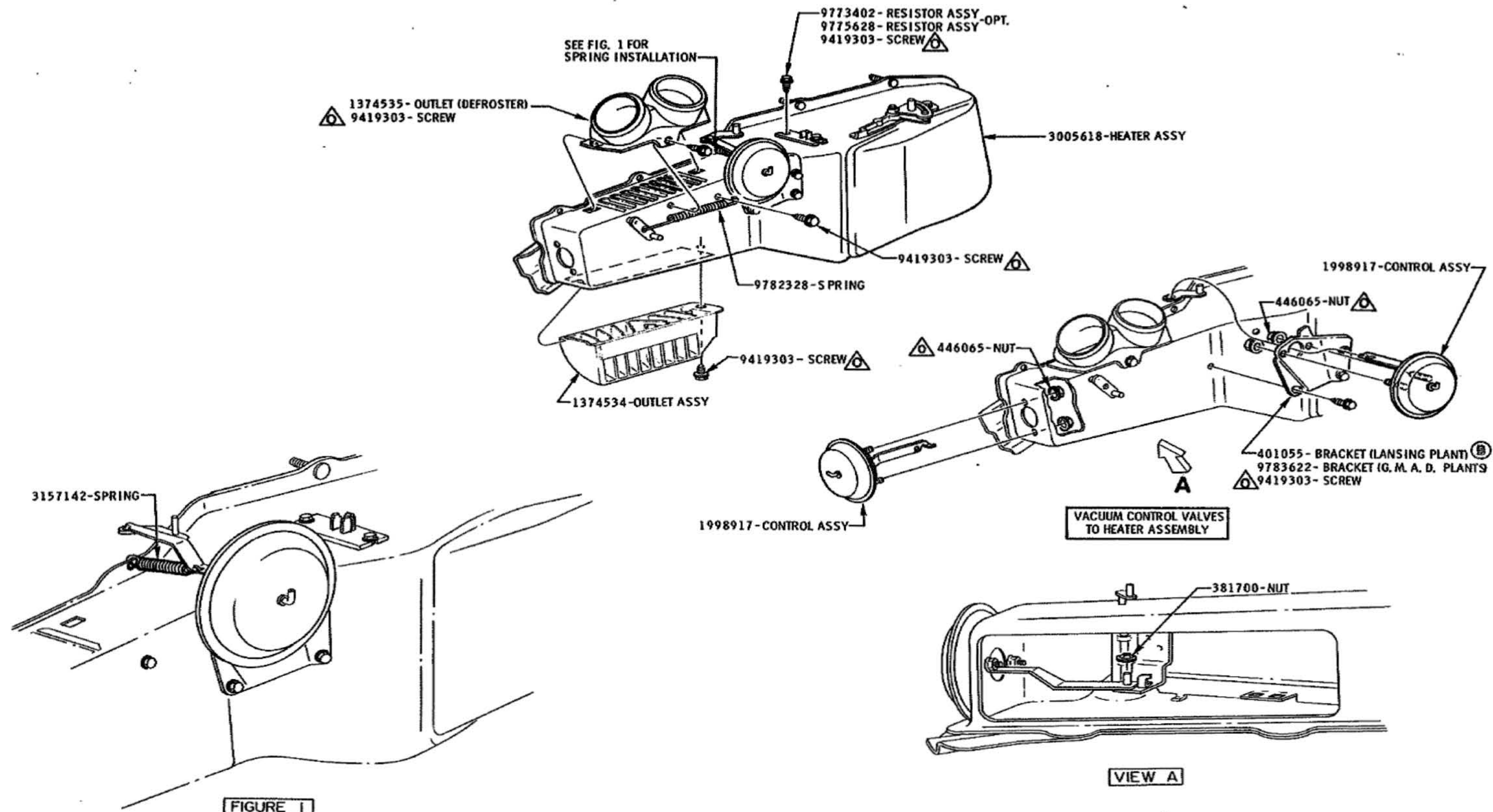
INSTALLATION OF AIR INLET VALVE ASSYS
& SHROUD FOUNDATION PANEL ASSY

R. H. SHOWN - L. H. OPPOSITE
(FOR ALL CARS WITH HEATER
AND/OR VENTILATION)

(EXCEPT AIR CONDITIONING)

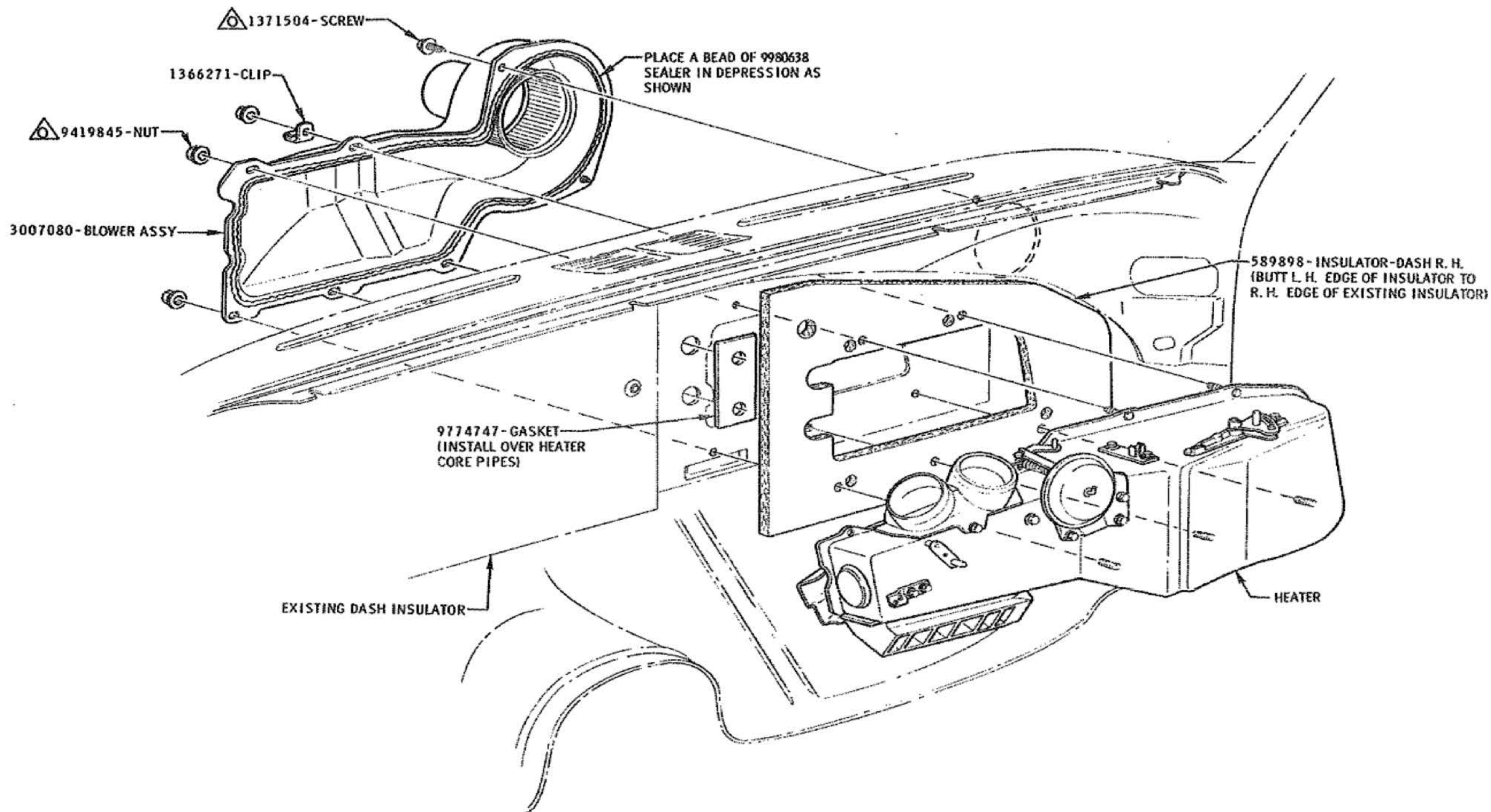
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-17-67	D	NOTE REVISED													VALVE BODY & SHROUD FOUNDATION PANELS	1968		1-1	116
					7-10-67	C	LEADER ADDED													DATE NOV. 8 1966				
					6-23-67	B	TORQUE NOTE ADDED													DR. BY B. B. PARKER				
					4-26-67	A	NOTE REVISED													CHECKED T. B. W.	REF. 1A 2C	SERIES B-C	PART NO. 398163	



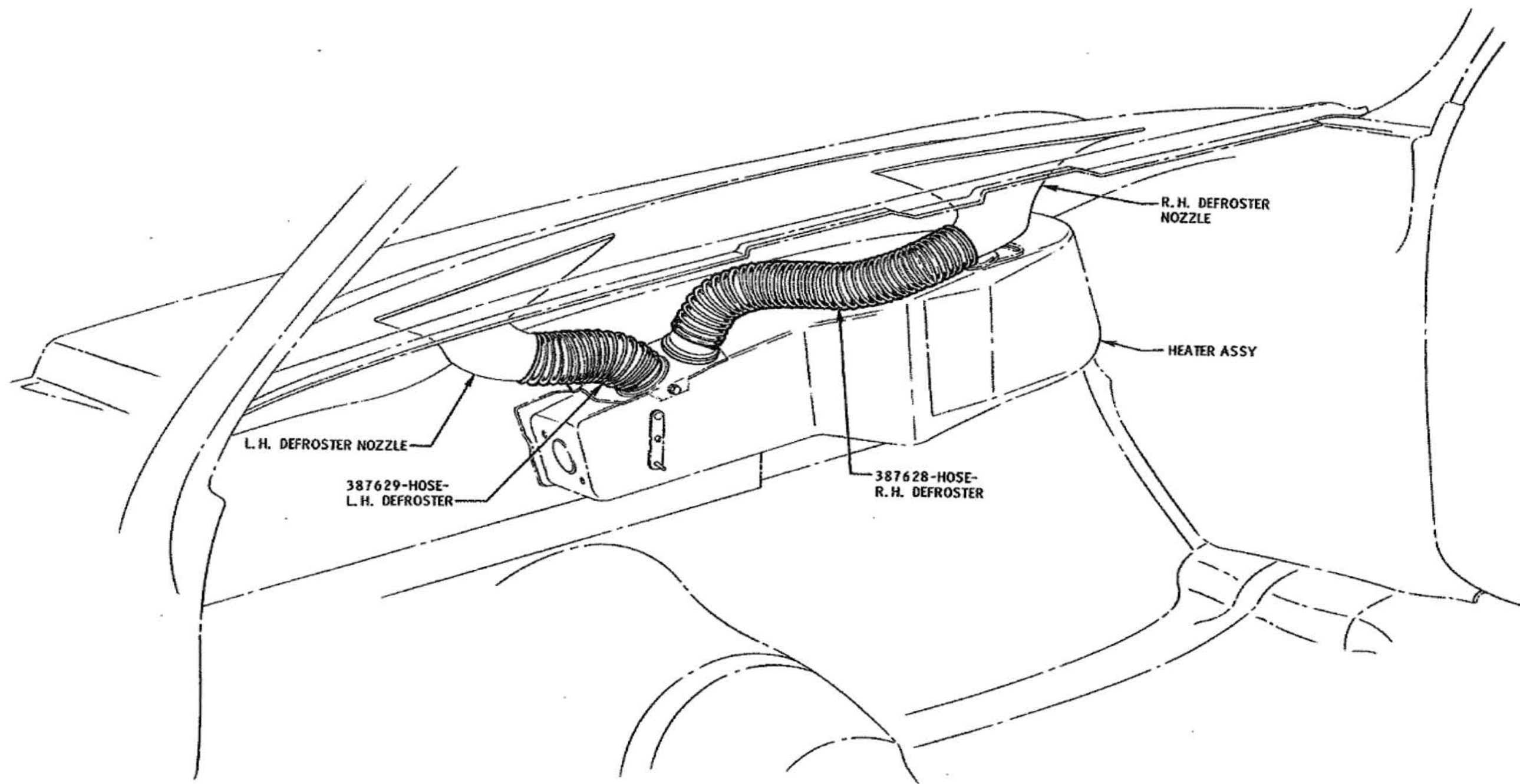
△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
															HEATER ASSEMBLY	1968		1-1	120
					9-27-67	D	TORQUE SYMBOLS ADDED	PL	DT						DATE DEC. 2, 1966				
					7-7-67	C	TORQUE NOTE ADDED	J13	BP						DR. BY S. PARKER				
					4-12-67	B	401055 BRACKET & USE ADDED	RW	DT						CHECKED				
					4-6-67	A5	WAS 9419665 SCREW	RW	DT						APPR. H.S.M. PENNER				
															APPR. Fred Sparty	REF. 1A2C	SERIES B-C	PART NO. 398163	



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

													TITLE HEATER, GASKET AND BLOWER									
													DATE	NOV 2, 1966	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	1-1	PAGE	121	
													DR. BY	B. PARKER	CHECKED	JIM	REF.	1A2C	SERIES	B-C	PART NO.	398163
													7-7-67	A	TOPOQUE NOTE ADDED		J13	BP	APPR.	H. G. HARTWELL	APPR.	Paul Jantz
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	APPR.	SERIES	PART NO.				



(EXCEPT AIR CONDITIONING)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	SERIES	PART NO.
																DEFROSTER HOSES	1968		1-1	122	B-C	398163
																REF. 1A2C						

DATE NOV. 1, 1966
DR. BY B. PARKER
CHECKED [Signature]
APPR.

⚠️ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

REMOVE PERFORATED PORTION OF UPPER SHROUD INSULATOR IN THIS AREA OF PLENUM CHAMBER TO CLEAR POWER SERVO TO TEMPERATURE DOOR LINK. (35C61 ONLY)

7291913-TRANSDUCER-35C61
1371504-SCREW ASSY
(REMOVE PERFORATED PORTION OF INSULATOR TO MOUNT TRANSDUCER. SEE SECTION O,

DASH INSULATOR -L. H.
AIR CONDITIONING ONLY
(FURNISHED AND INSTALLED BY BODY VENDOR)

DASH INSULATOR -R. H.
AIR CONDITIONING ONLY
(FURNISHED AND INSTALLED BY BODY VENDOR)

DRILL .125-.129 DIA. HOLE THROUGH PANEL AND COVER AT ASSEMBLY (L. H. ONLY)

⚠️ 9419303-SCREW

575401-COVER-SHROUD SIDE AIR OUTLET DUCT (USE ON BOTH SIDES)

APPLY A 3/8" BEAD OF 9981150 SEALER BETWEEN COVER AND SHROUD PANEL

⚠️ 581003-SCREW ASSY FASTEN ON L. H. FOUNDATION PANEL ONLY.

⚠️ 9422434-SCREW (SELF DRILLING)

399676-INSULATOR-FRONT FLOOR-R. H.

SEE SEC. 1-1, PAGE 116 FOR CEMENTING INSULATION

INSULATOR-R. H. SEE SEC. 1-1, PAGE 112 FOR PART NUMBER

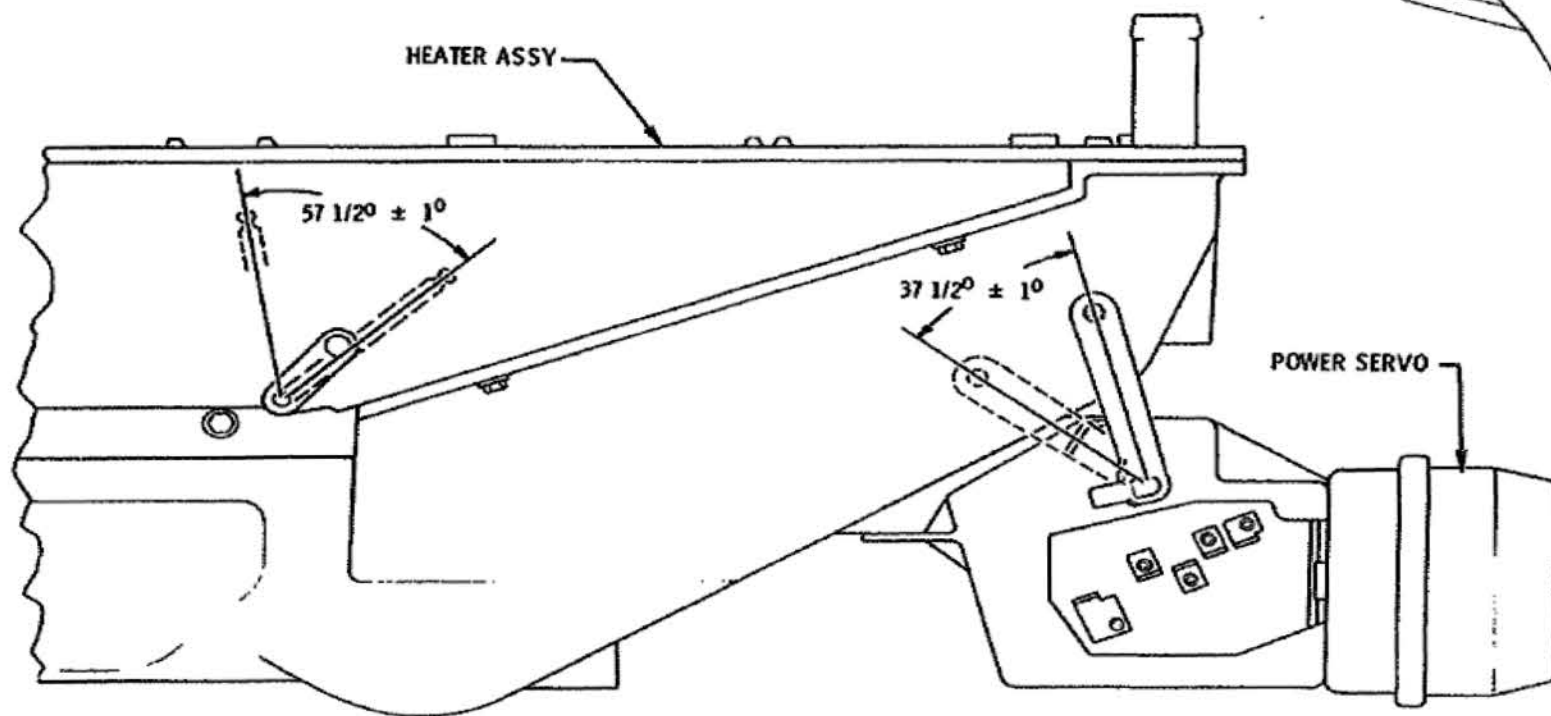
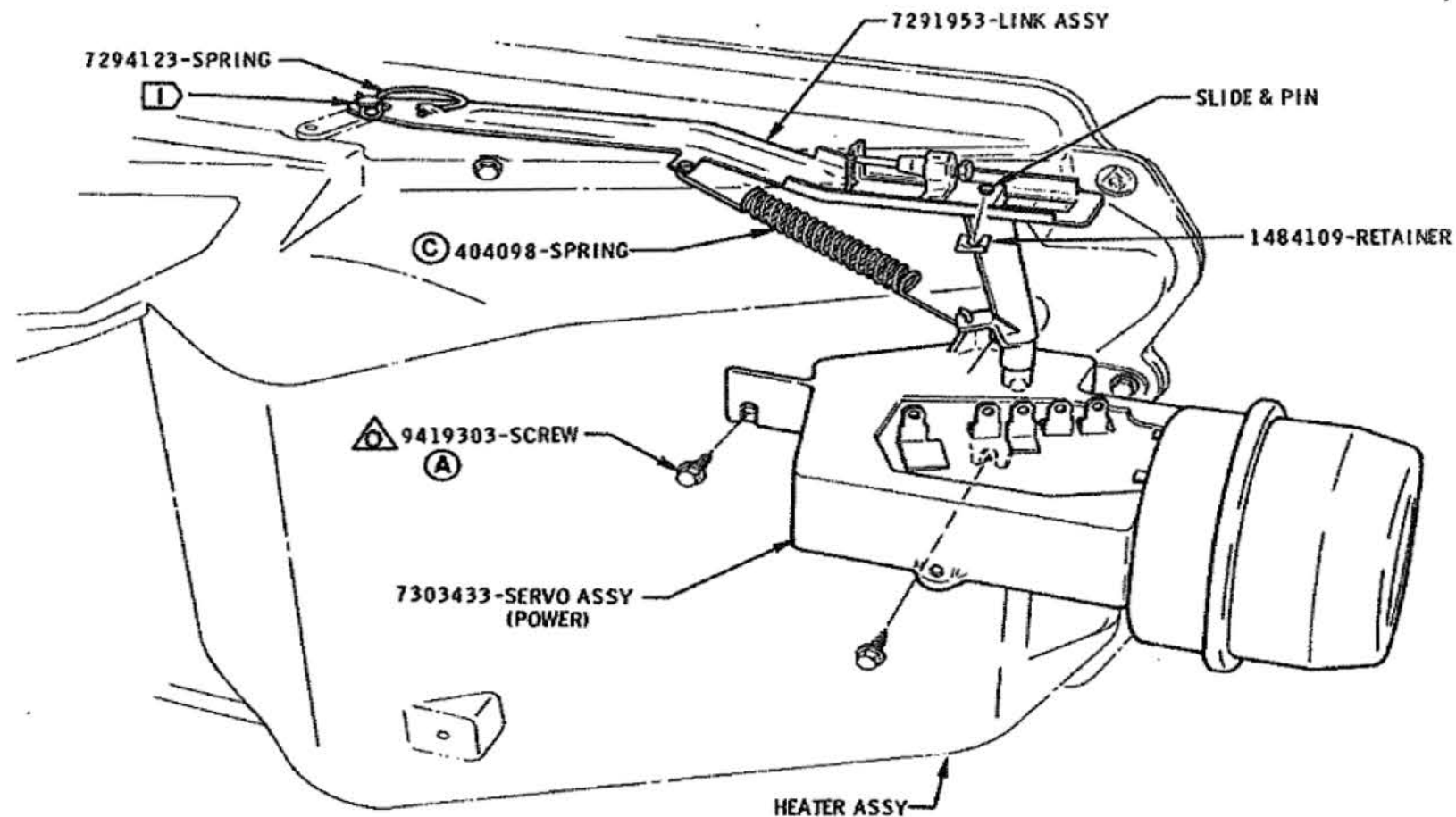
399677-INSULATOR-FRONT FLOOR -L. H.

INSULATOR-L. H. SEE SEC. 1-1, PAGE 112 FOR PART NUMBER

399678-INSULATOR-FRONT FLOOR INSTALL SO THAT R. H. AND L. H. INSULATORS OVERLAP EDGES OF THIS INSULATOR AS SHOWN BY CUT-AWAY AREAS.

Ⓐ 7644848-PANEL-SHROUD SIDE FINISHING-R. H. (SHOWN)
7644849-PANEL-SHROUD SIDE FINISHING-L. H. (OPPOSITE) (FISHER FURNISH, OLDS INSTALL) SEE FISHER FINISH CONTROL CHARTS FOR COLORS

TITLE												A/C INSULATORS, SHROUD COVER & TRANSDUCER									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
																	NOV. 2, 1966	1968		1-1	210
					6-23-67	B	TORQUE NOTE ADDED	FR	DT												
					4-26-67	A	NOTE REVISED	BD	DT												
																	REF. 35C 60-61	SERIES B-C	PART NO.	398163	



ADJUSTMENT VIEW

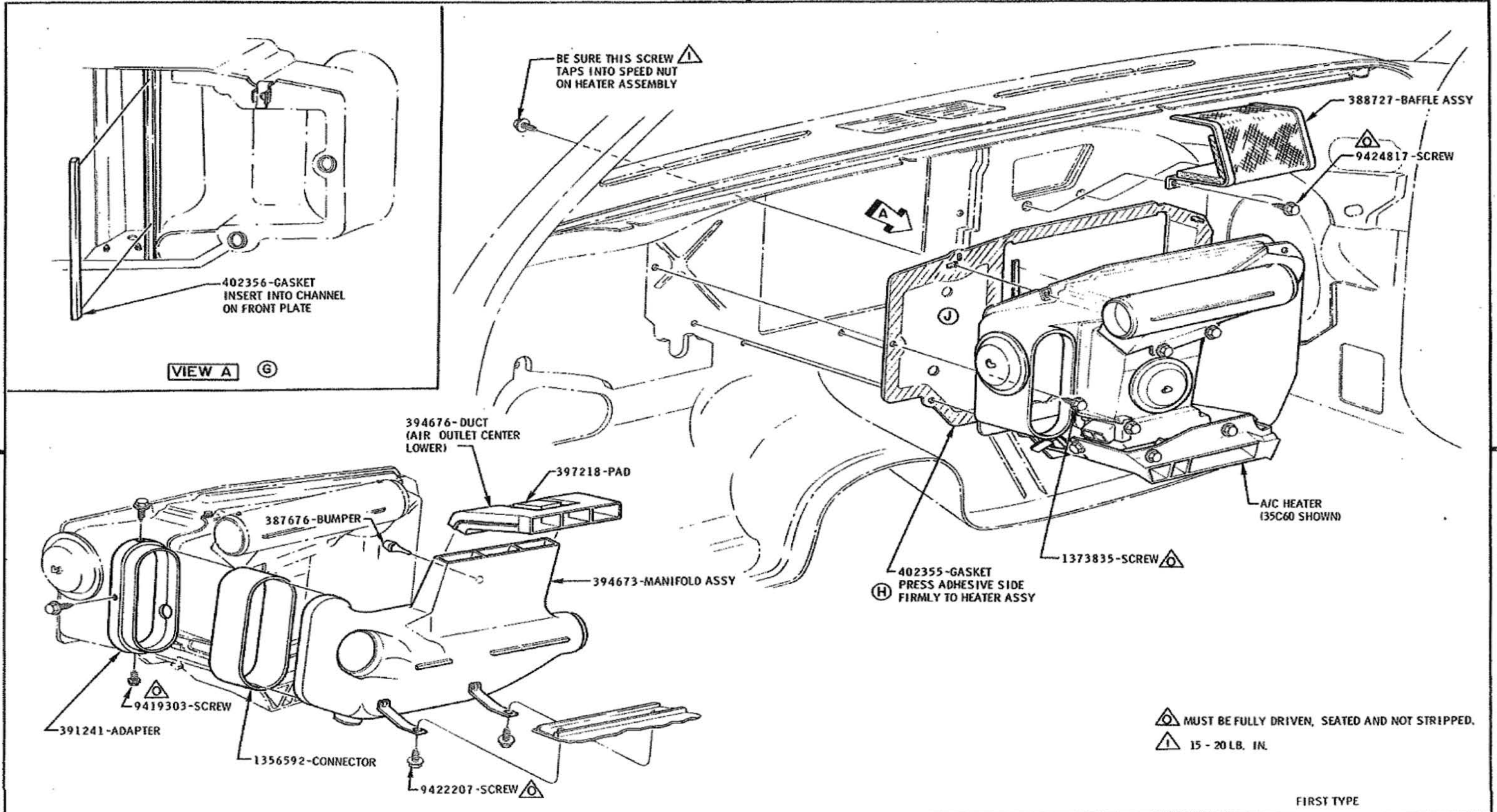
POWER SERVO TO TEMPERATURE DOOR LINK ADJUSTMENT

1. INSTALL POWER SERVO ON HEATER.
2. INSTALL LINK ASSY ON HEATER TEMPERATURE DOOR CRANK PIN. INSTALL RETAINING SPRING.
3. SET POWER SERVO ARM AT $37\ 1/2^\circ \pm 1^\circ$. HOLD ARM AT THIS SETTING USING ARM POSITIONING TOOL.
4. SET HEATER TEMPERATURE DOOR AT $57\ 1/2^\circ \pm 1^\circ$. HOLD DOOR AT THIS SETTING USING DOOR POSITIONING TOOL.
5. ADJUST LINK ASSY ADJUSTING SCREW UNTIL HOLE IN LINK FREELY ENGAGES PIN ON SERVO ARM.
6. REMOVE LINK FROM SERVO ARM.
7. REMOVE TEMPERATURE DOOR AND POWER SERVO ARM POSITIONING TOOLS.
8. CONNECT LINK TO POWER SERVO ARM AND INSTALL RETAINER AND LINK TO ARM SPRING.

LUBRICATE AREAS INDICATED WITH 9985143 LUBRICANT

△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

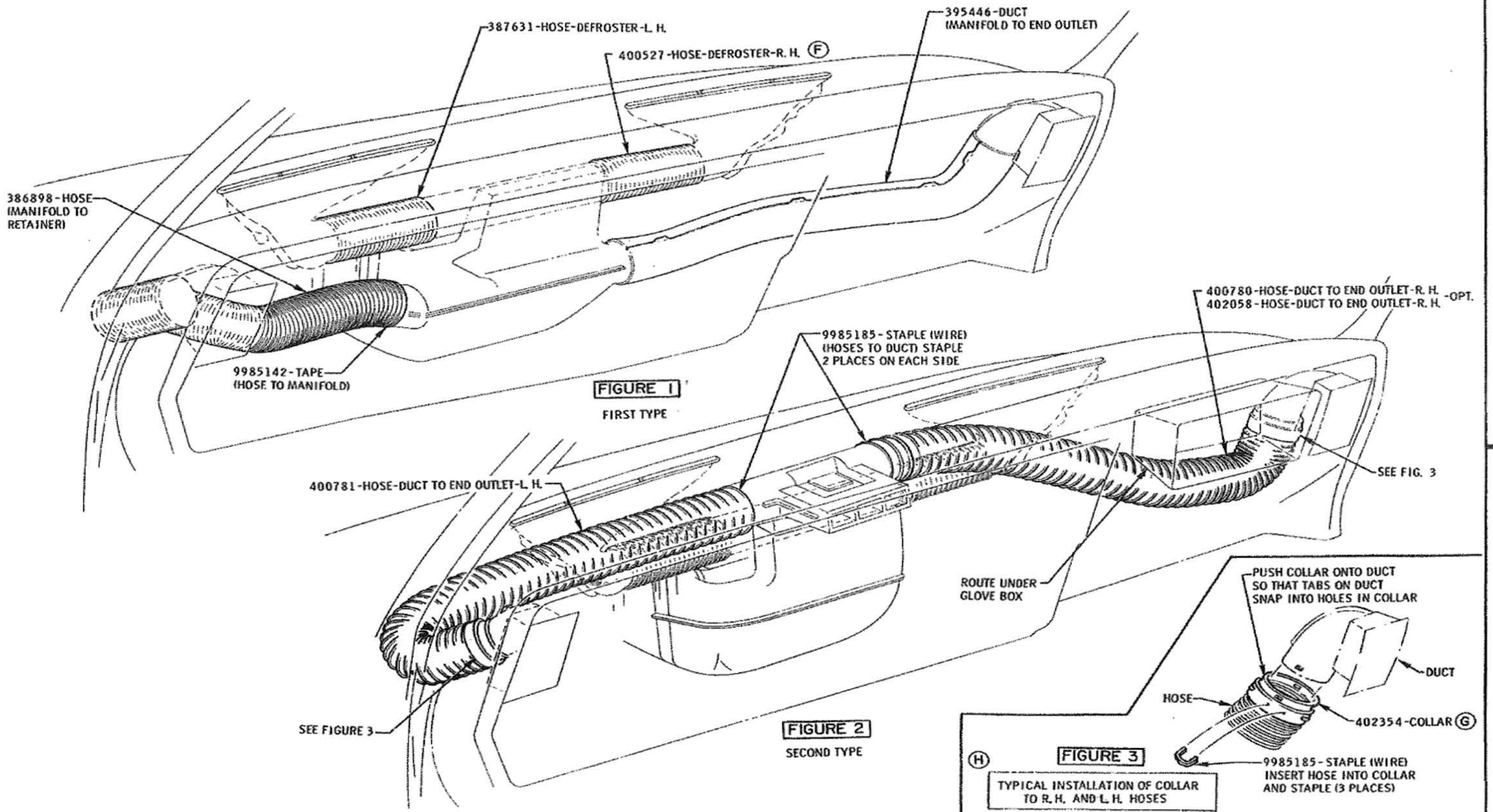
REVISION										TITLE		POWER SERVO (35C61)		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	REF.	SERIES	PART NO.	1-1	212	
					5-28-68	C	WAS 7293676 SPRING			FEB. 4, 1967							1968	INFORMATION MANUAL			
					7-7-67	B	TORQUE NOTE ADDED			DR. BY B. PARKER											
					4-8-67	A	WAS 9419663 SCREW			CHECKED Lina											
										APPR. H. S. HA - 11-11-67							B-C	398163			



FIRST TYPE

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
				7-7-67	E	TORQUE NOTE ADDED	PM	8/30									A/C MANIFOLD				
1-2-68	J	HOLES ADDED	BP	4-26-67	D	9422452-SCR. NO. REVD	BP	4-26-67	D			NOV. 1, 1966						1968		1-1	213
10-31-67	H	WAS 1369398-GASKET	BP	4-8-67	C	WAS 9419663 SCREW	BP	3-31-67	B	FIRST TYPE NOTE ADDED	BP										
10-31-67	G	VIEW A ADDED	BP	2-23-67	A	ADDITIONAL SEAL AREA ADD	BP														
9-22-67	F	TORQUE REVISED	BP																		

SERIES B-C PART NO. 398163



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	
					10-2-67	E	40205B HOSE-OPT ADDED	BP	DT							A/C DEFROSTER & END OUTLET HOSES	1968		1-1	215	
					7-21-67	D	WAS 9985185 STAPLE	BP	DT												
					7-21-67	C	PART NO'S ADDED	J13	DT												
					6-2-67	B	FIGURE 3 ADDED	BP	DT												
					3-31-67	A	SECOND TYPE VIEW ADDED	BP	DT												
					11-7-67	H	L.H. USAGE ADDED	BP	DT												
					11-7-67	G	WAS 401374 COLLAR	BP	DT												
					10-14-67	F	WAS 397630-HOSE	BP	DT												

(H) **FIGURE 3**
TYPICAL INSTALLATION OF COLLAR TO R.H. AND L.H. HOSES

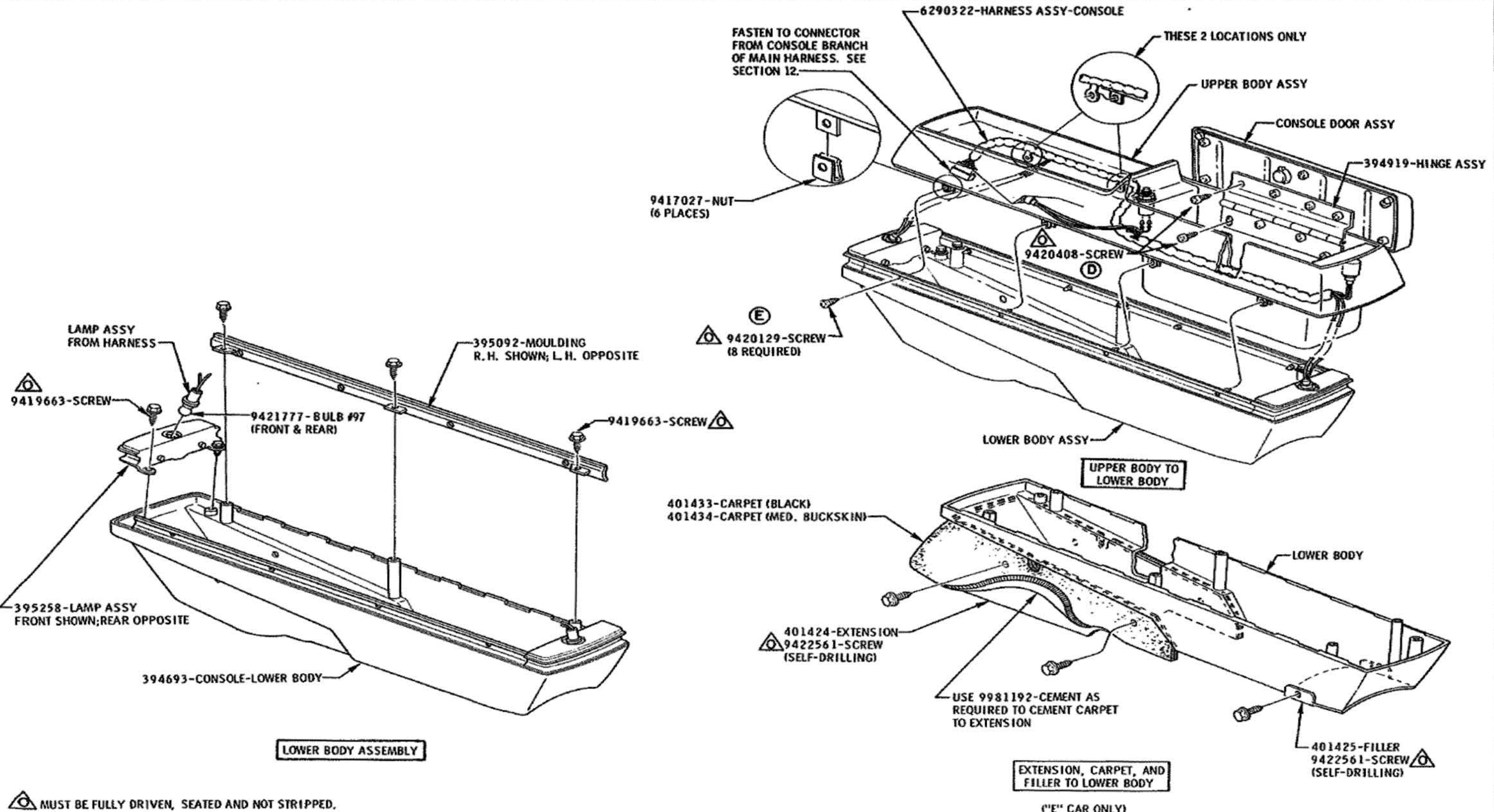
PUSH COLLAR ONTO DUCT SO THAT TABS ON DUCT SNAP INTO HOLES IN COLLAR

DUCT

HOSE

9985185-STAPLE (WIRE) INSERT HOSE INTO COLLAR AND STAPLE (3 PLACES)

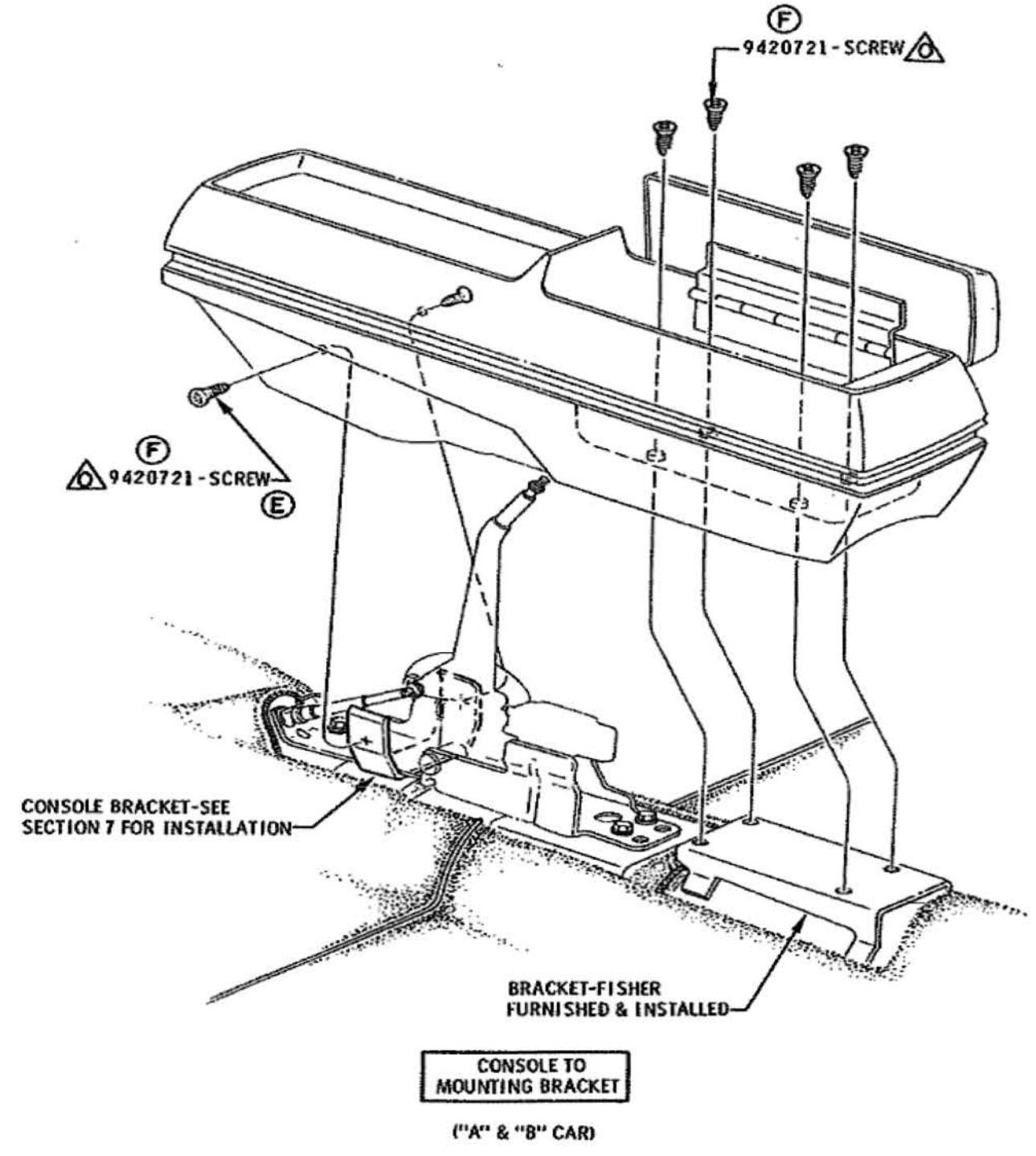
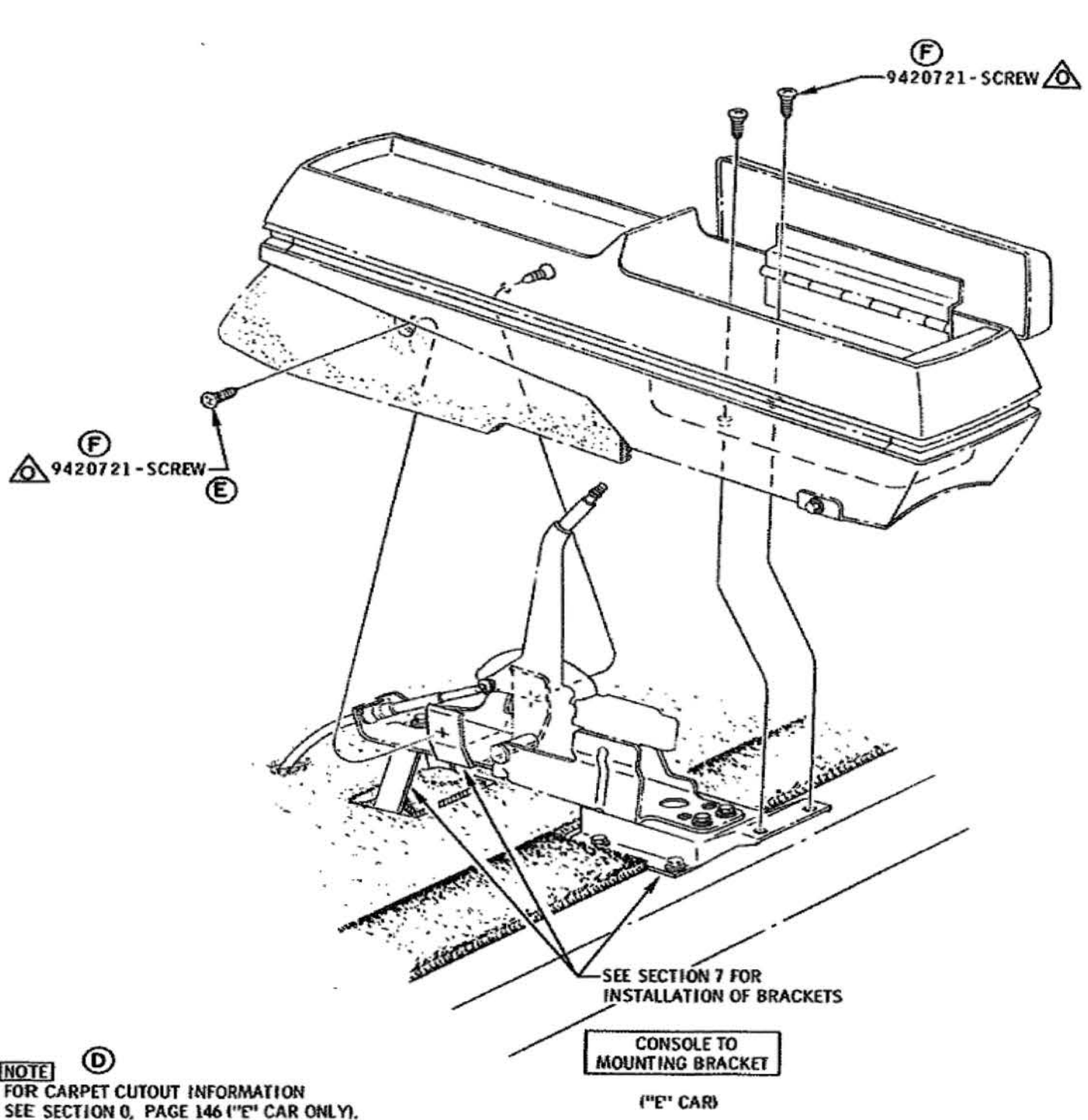
402354-COLLAR (G)



(A) MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

(E" CAR ONLY)

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
				10-21-67	E	W/TS 9421935-SCREW	SM	DT									CONSOLE-AT FLOOR SHIFT	1968		1-1	316
				6-27-67	D	TORQUE SYMBOL ADDED	SM	DT									NOV 30, 1966				
				6-23-67	C	TORQUE NGTE ADDED	SM	DT									DR. BY W.E. MASON				
				6-7-67	B	RELEASED FOR E" CAR	SM	DT									CHECKED				
				5-24-67	A	"SM" CONSOLE INFO REMOVED	SM	DT									APPR. N. N.	REF. 35055	SERIES	PART NO.	
																			A-B-E		398162-3-4

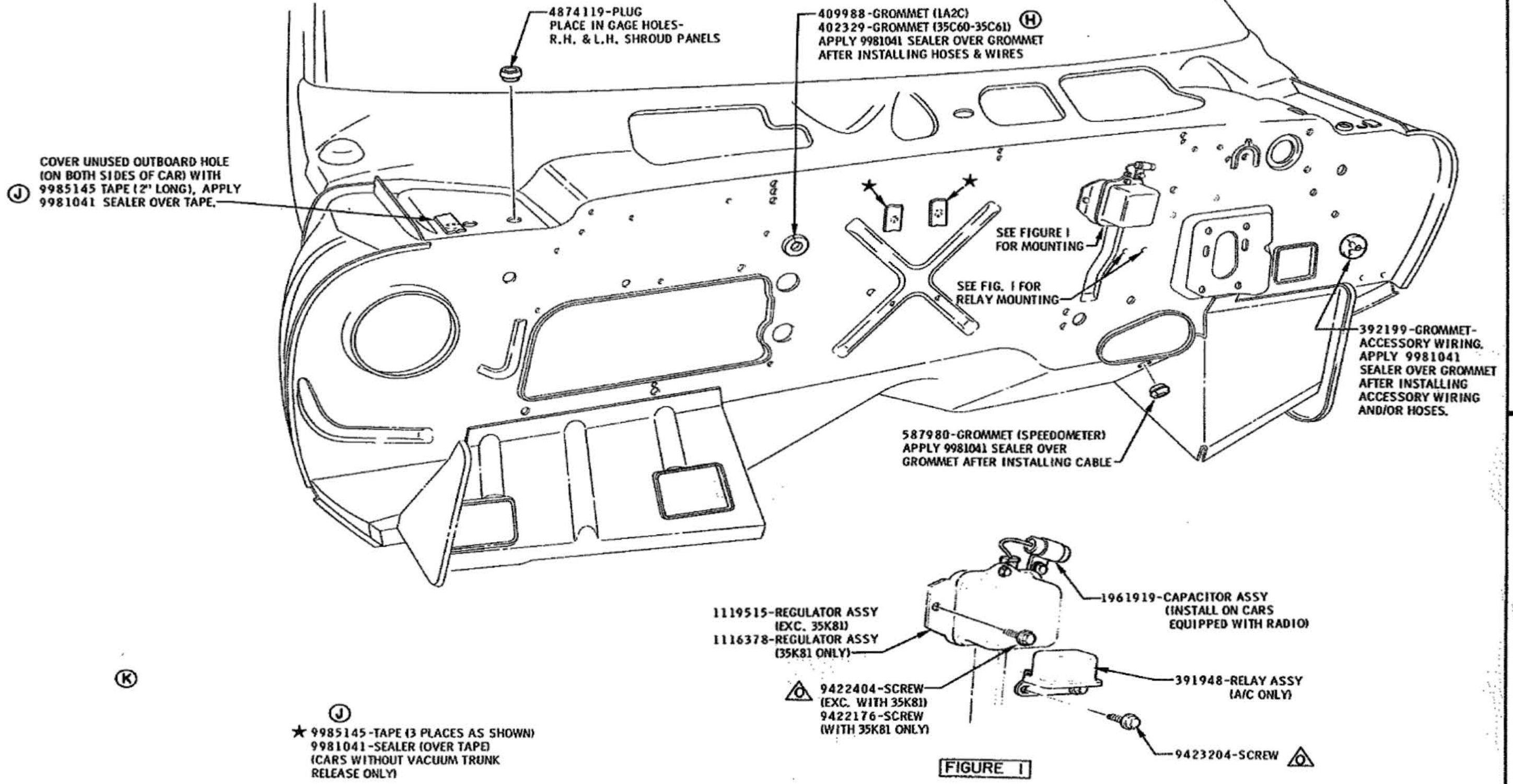


NOTE D
FOR CARPET CUTOUT INFORMATION
SEE SECTION O, PAGE 146 ("E" CAR ONLY).

△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE		SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
						10-21-67	E ₂	WAS 9422561 SCREW	PL	DT							CONSOLE-AT FLOOR SHIFT	1968		1-1	317
						7-21-67	D	NOTE ADDED													
						6-23-67	C	TORQUE NOTE ADDED													
						6-15-67	B	VIEW ADDED													
						6-6-68	F ₄	WAS 9427329-SCREW	PL	DT	5-24-67	A	"SM" CONSOLE INFO. REMOVED								
																	REF.	SERIES A-B-E	PART NO. 398162-3-4		

△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.



★ 9985145-TAPE (3 PLACES AS SHOWN)
9981041-SEALER (OVER TAPE)
(CARS WITHOUT VACUUM TRUNK
RELEASE ONLY)

FIGURE 1

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
1-10-68	K	VIEW A REMOVED	B	DT	9-1-67	E	CLIPS REMOVED									DASH COMPONENTS	1968		1-2	111
1-5-68	J	PART NUMBER ADDED			DT	19-67	D	NOTE ADDED								DATE FEB. 2, 1967				
10-26-67	H	WAS 392852-GROMMET			DT	5-26-67	C	392199 GROMMET ADDED								DR. BY JOSEPH V. GALL				
9-27-67	G	TORQUE NOTE ADDED			PL	DT	4-24-67	B	WAS 94204'S SCREW							CHECKED <i>J. Gall</i>				
9-7-67	F	CLIP REMOVED			DT	4-24-67	A	GROMMET REINSTATED								APPR.				
																		SERIES	PART NO.	
																		B-C	398163	

35C60 AND 35C61 VACUUM TANK LOCATION

TRUNK RELEASE VACUUM TANK LOCATION (NOT NECESSARY ON CARS WITH VACUUM DOOR LOCKS)

TRUNK RELEASE VACUUM TANK LOCATION (NOT NECESSARY ON CARS WITH VACUUM DOOR LOCKS.)

WITH AIR CONDITIONING

WITHOUT AIR CONDITIONING

385075 - TANK ASSY
385076 - TANK ASSY (OPT)

ⓓ ⓔ
△ 9428036 - SCREW

FASTEN AT HOLES OR DIAPLES AS SHOWN. (SEAL OVER SCREW HEADS WITH 9981041 SEALER)

TYPICAL VACUUM TANK INSTALLATION

△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
				3-18-68	E	WAS 9428036 (9423329)	PJM	DT									VACUUM TANKS	1968		1-2	112	
				3-5-68	D	WAS 9419727-SCREW	PJM	DT														
				9-1-67	C	CLIPS REMOVED	RJ	DT														
				6-21-67	B	TORQUE NOTE ADDED	LR	DT														
				5-18-67	A	BACKGROUND REVISED	BP	DT														
																		REF. 35 A 91 35 C 60, 61	SERIES B-C	PART NO. 398163		

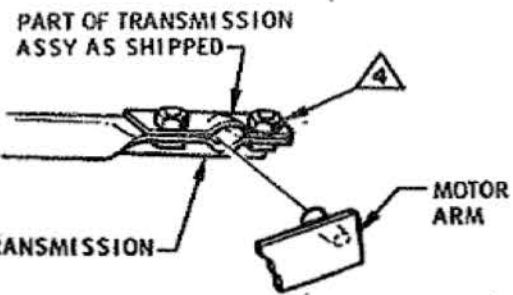
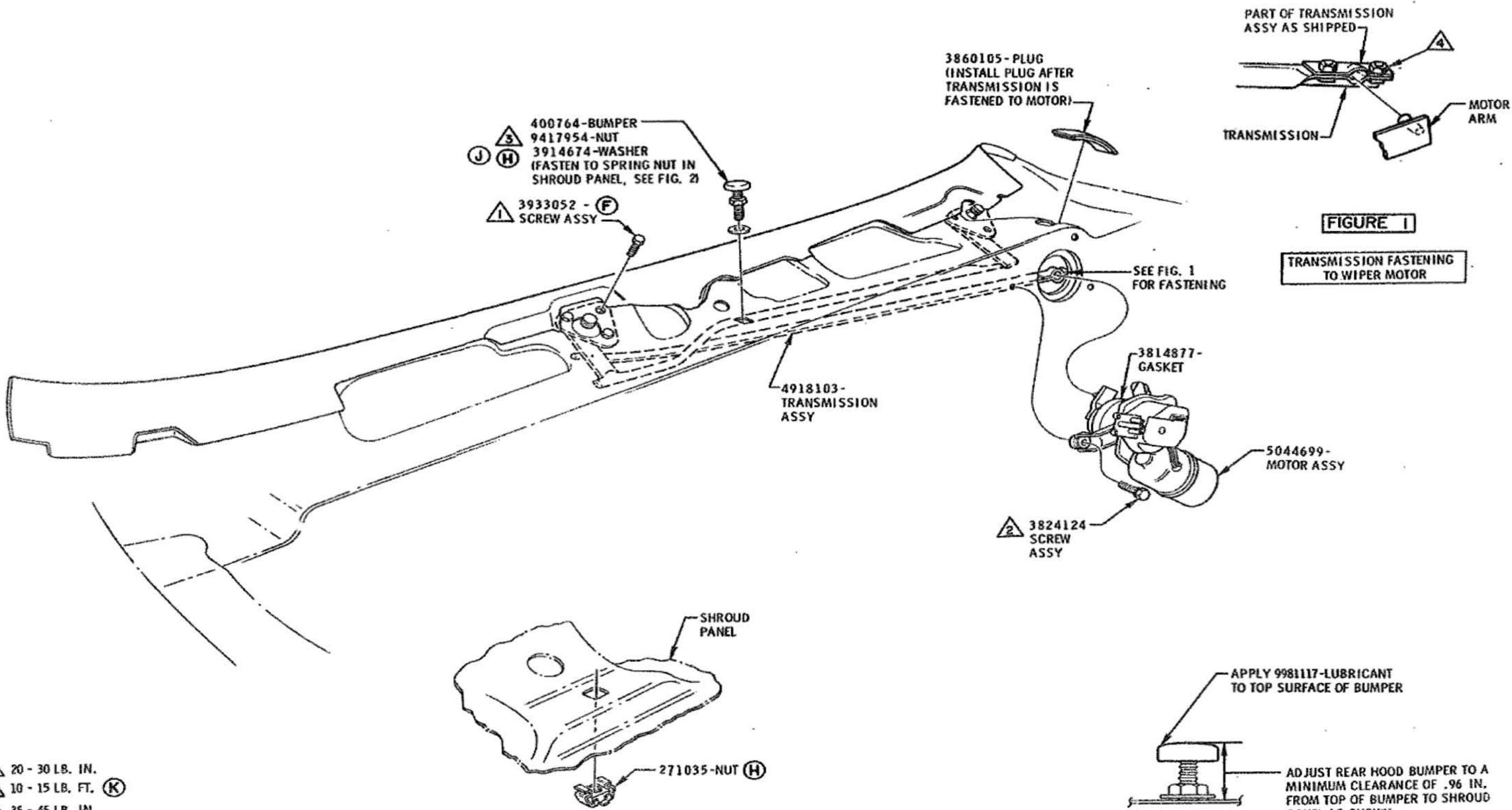


FIGURE 1

TRANSMISSION FASTENING TO WIPER MOTOR

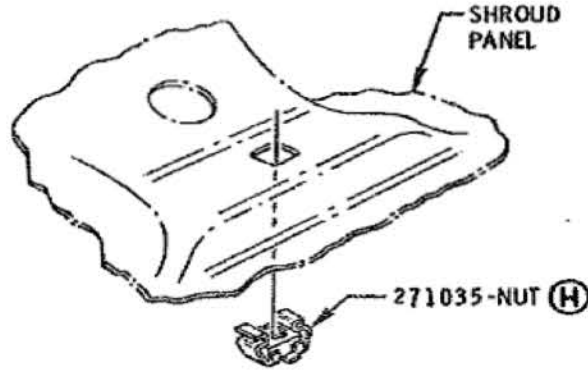
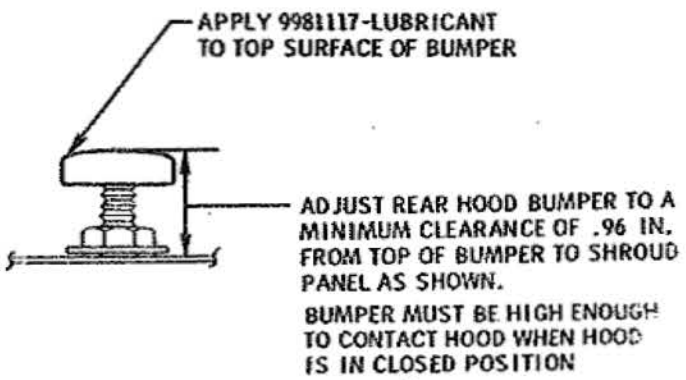


FIGURE 2

NUT INSTALLATION

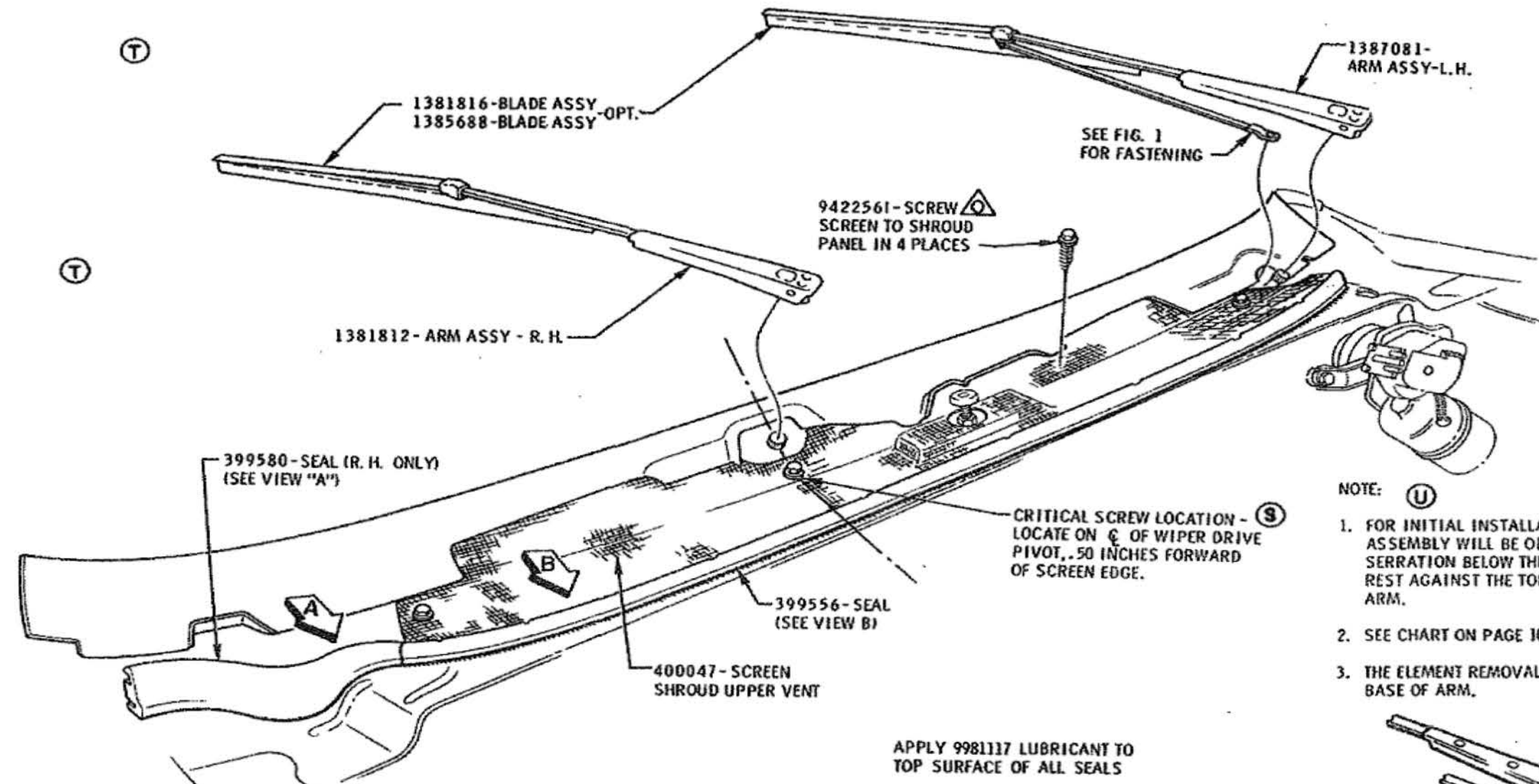
- 4 20 - 30 LB. IN.
- 3 10 - 15 LB. FT. (K)
- 2 35 - 45 LB. IN.
- 1 45 - 60 LB. IN.



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					3-30-68	K	TORQUE REVISED	FB	DT	7-7-67	E	TORQUE ADDED	J13	BP						WINDSHIELD WIPERS	1968		1-2	115
					3-30-68	J	WAS 9420760-WASHER	FB	DT	6-16-67	D	ADJUST. NOTE REVISED	FB	DT	APR. 3, 1967					DR. BY BEAUDIN				
					10-14-67	H2	PART NO'S ADDED	FB	DT	5-17-67	C	NOTE REMOVED	FB	DT	JEM					CHECKED				
					10-8-67	G	LUBC NOTE ADDED	FB	DT	5-17-67	B	BUMPER ADJUST. ADDED	FB	DT						APPR. R. H. HUNTER				
					7-20-67	F	WAS 3832845-SCREW ASSY	FB	DT	4-26-67	A	NOTE REVISED	FB	DT						APPR.	REF. 1A2D	SERIES B-C	PART NO. 398163	

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DO NOT REMOVE POLYETHYLENE SHIPPING ENVELOPE FROM THE WIPER BLADE EXCEPT DURING INCLEMENT WEATHER WHEN USE OF THE WIPER SYSTEM IS REQUIRED.



- NOTE: (U)
1. FOR INITIAL INSTALLATION, CORRECT PARK POSITION OF BLADE AND ARM ASSEMBLY WILL BE OBTAINED BY USING THE FIRST AVAILABLE TRANSMISSION SERRATION BELOW THE MOULDING STOPS, THEN LIFTING THE BLADES UP TO REST AGAINST THE TOP SIDE OF THE STOPS AND REMOVING PIN FROM BASE OF ARM.
 2. SEE CHART ON PAGE 100 FOR WIPE PATTERN.
 3. THE ELEMENT REMOVAL CLIP OR BUTTON ON BLADE ASSEMBLY MUST BE TOWARD BASE OF ARM.

APPLY 9981117 LUBRICANT TO TOP SURFACE OF ALL SEALS

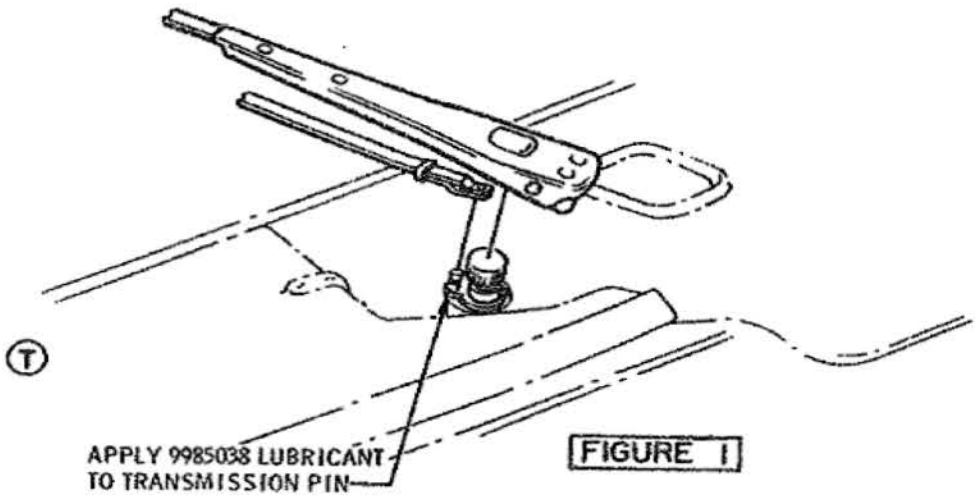
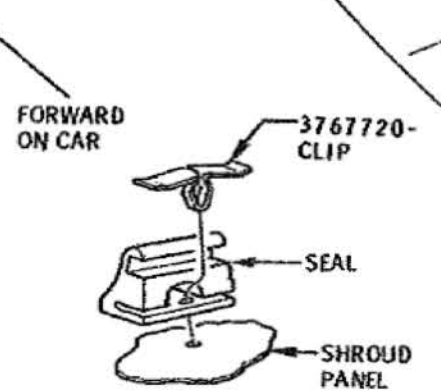
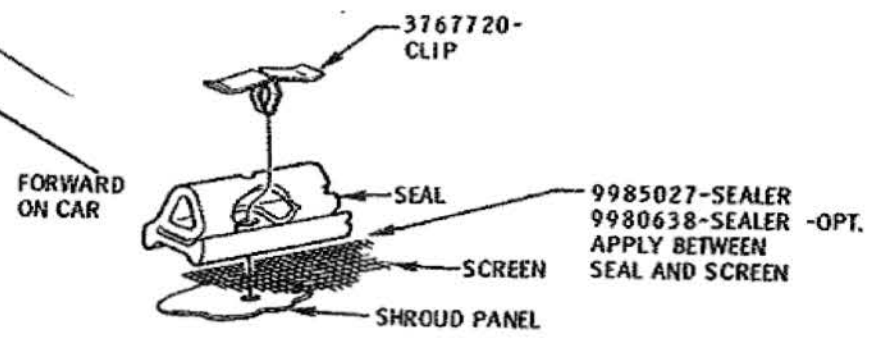


FIGURE 1

L.H. WIPER FASTENING



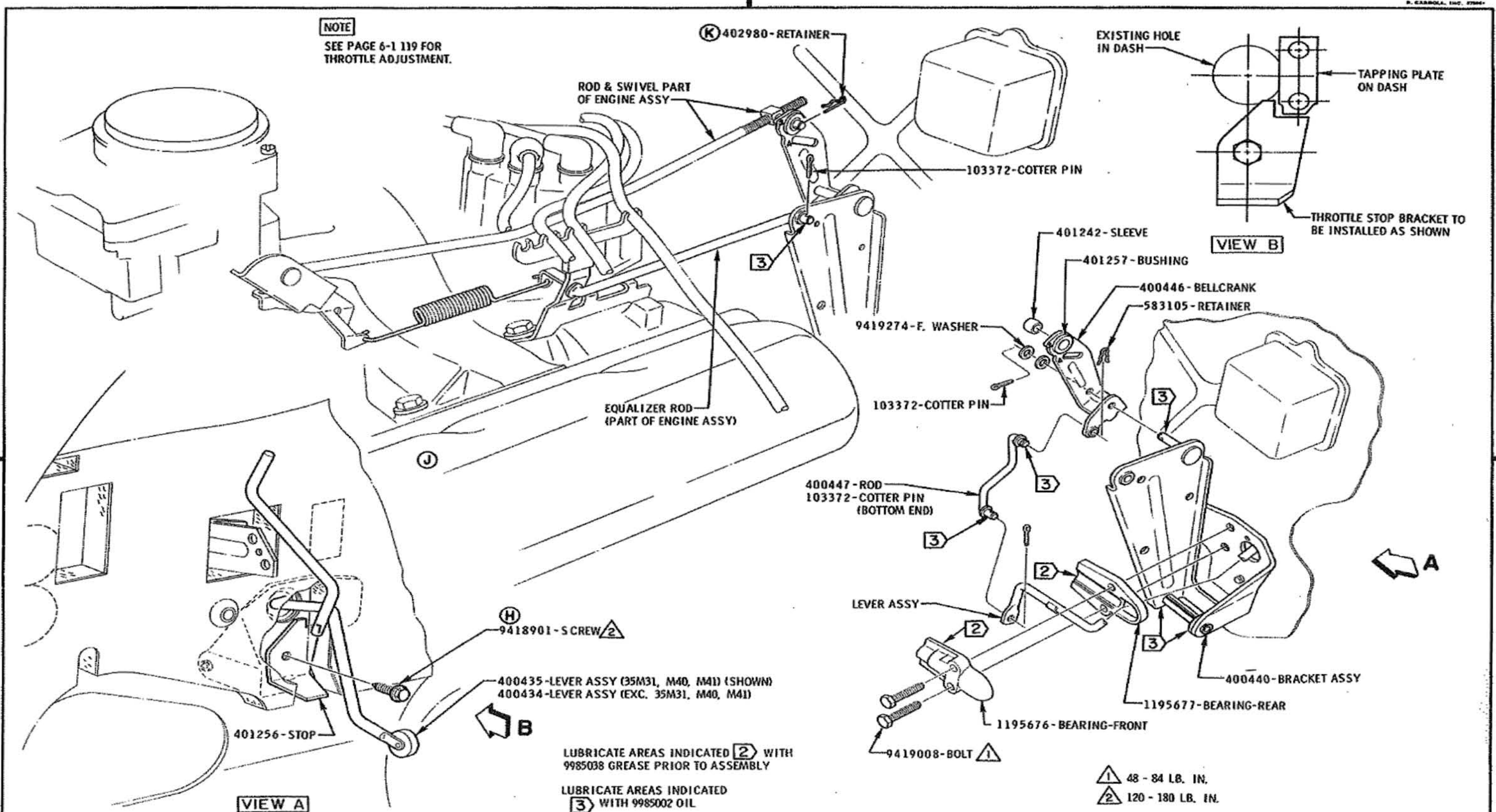
VIEW A



VIEW B

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	WINDSHIELD WIPERS	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					5-1-68	U	NOTE ADDED									DATE APR. 3, 1967	1968		1-2	116	
					5-1-68	T ₂	NOTES REMOVED									DR. BY BEAUDOIN					
					1-19-68	S	NOTE ADDED									CHECKED					
					1-8-68	R	ENVELOPE NOTE ADDED									APPR.					
					11-7-67	P	LUBE INFO. ADDED										REF. 1A2D				
																	SERIES B-C			PART NO. 398163	

NOTE
SEE PAGE 6-1 119 FOR
THROTTLE ADJUSTMENT.



LUBRICATE AREAS INDICATED 2 WITH
9985038 GREASE PRIOR TO ASSEMBLY

LUBRICATE AREAS INDICATED
3 WITH 9985002 OIL

- 1 48 - 84 LB. IN.
- 2 120 - 180 LB. IN.

REVISION		REVISION		REVISION		REVISION		REVISION		TITLE		THROTTLE CONTROL	
DATE	SYM	DATE	SYM	DATE	SYM	DATE	SYM	DATE	SYM	DR. CK.	APPR.	FIRST USED	MANUAL SECTION
		12-28-67	K	WAS 103372									
		9-29-67	J	PART NOS. REMOVED		12-28-67	E	VIEW ADDED				1968	1-2
		9-11-67	H	WAS 9419402		6-9-67	D	TORQUE ADDED		W.E. MASON		OLDSMOBILE PRODUCT	120
		9-11-67	G	NOTE REVISED		5-26-67	C	REVISED & REDRAWN		W.E. MASON		INFORMATION MANUAL	
		9-11-67	F	WAS 399623-SPRING		4-28-67	B	CARB. LEVER REV TO DETAIL		W.E. MASON		REF. TR-8007	
						4-14-67	A	"EXC 35M33" REMOVED		W.E. MASON		SERIES	B-C
										W.E. MASON		PART NO.	398163
										W.E. MASON			

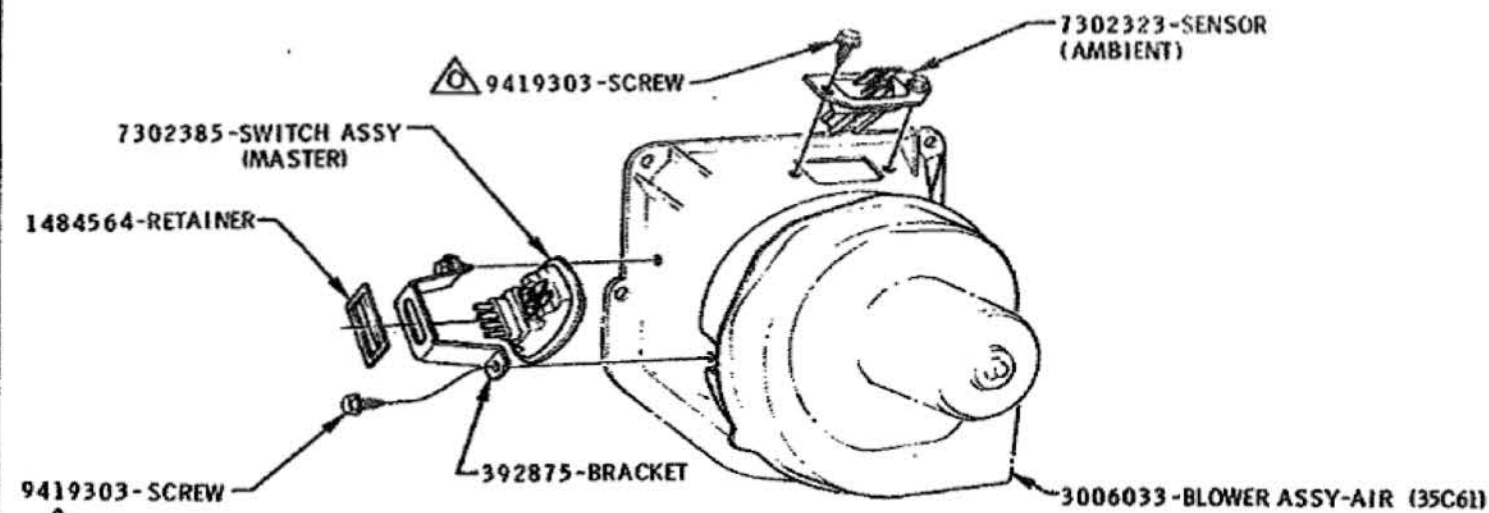
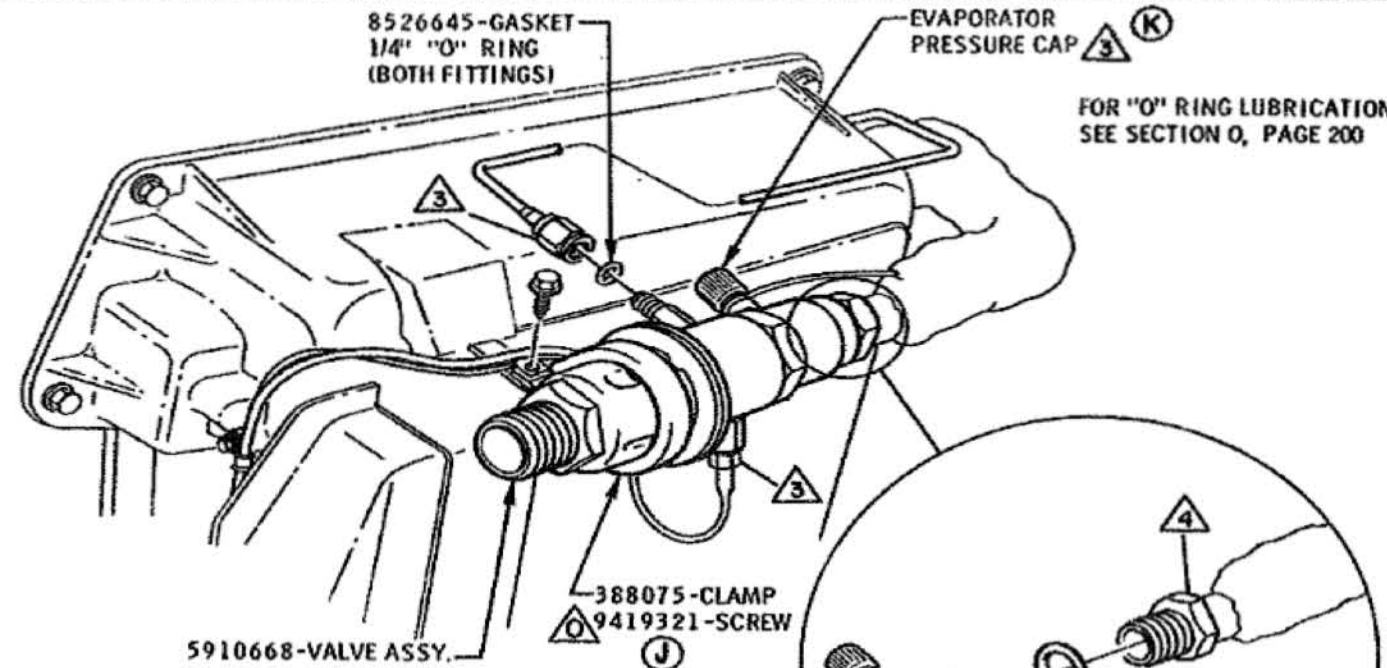
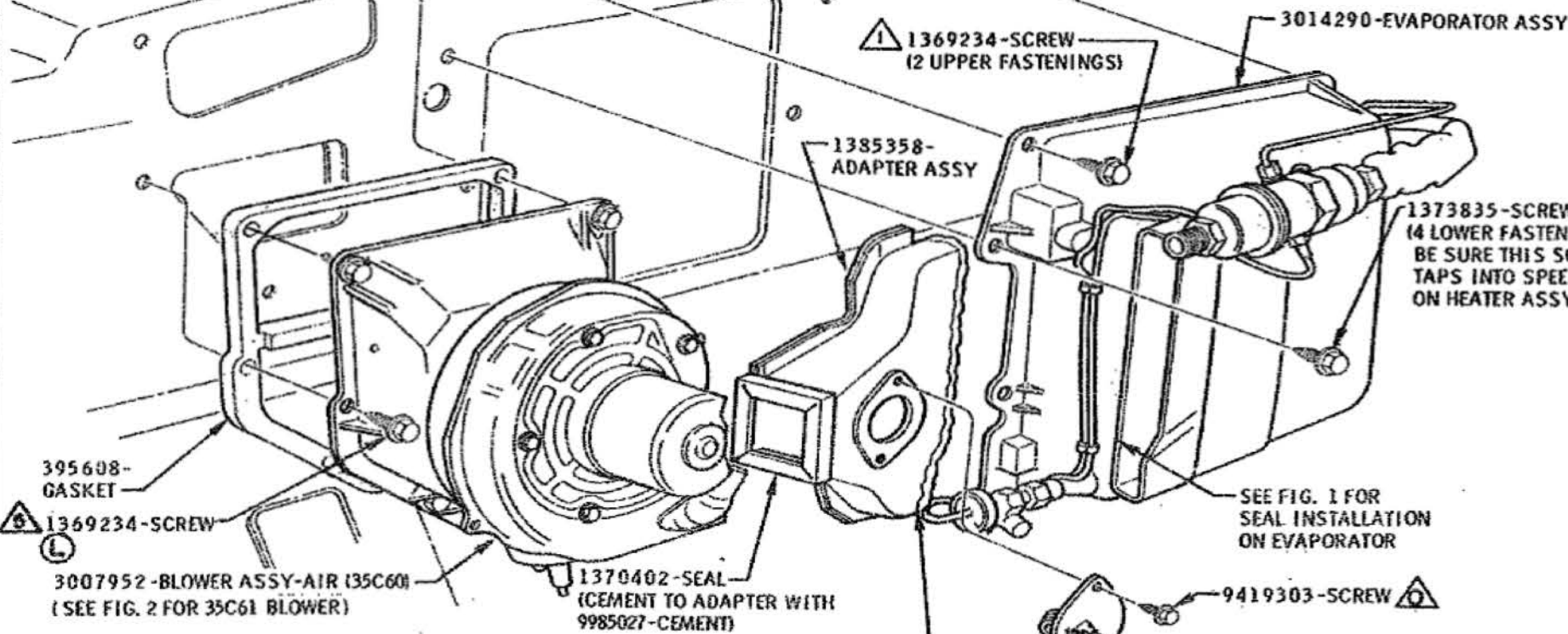


FIGURE 2



FOR "O" RING LUBRICATION SEE SECTION O, PAGE 200

INSTALLATION OF SUCTION THROTTLING VALVE



- ⓑ 8 - 20 LB. IN.
- ④ 28 - 33 LB. FT.
- ③ 5 - 7 LB. FT.
- ⓐ 15 - 20 LB. IN.
- ⓐ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

SEE FIG. 1 FOR SEAL INSTALLATION ON EVAPORATOR

387519-RESISTOR ASSY (35C60)
 397196-RESISTOR ASSY (35C61)

APPLY A 5/16" BEAD OF 9981145-SEALER ON FRONT, BOTTOM AND TOP EDGES OF ADAPTER ASSY.

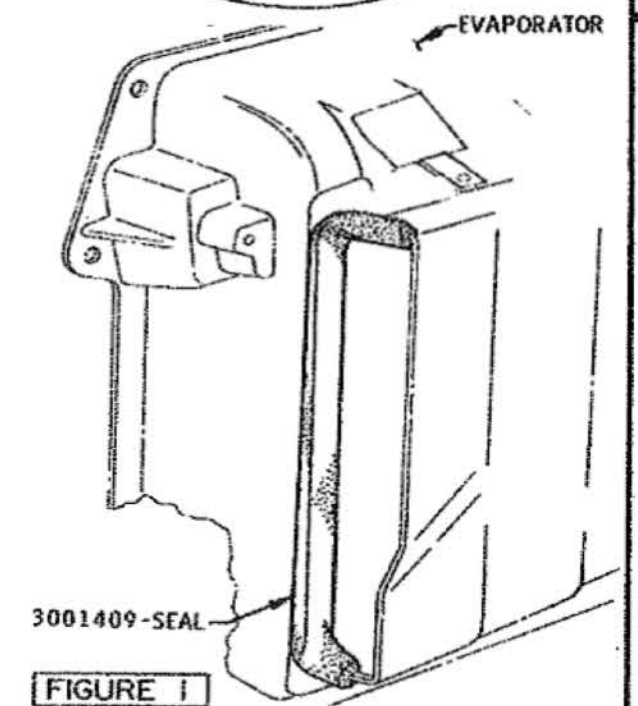
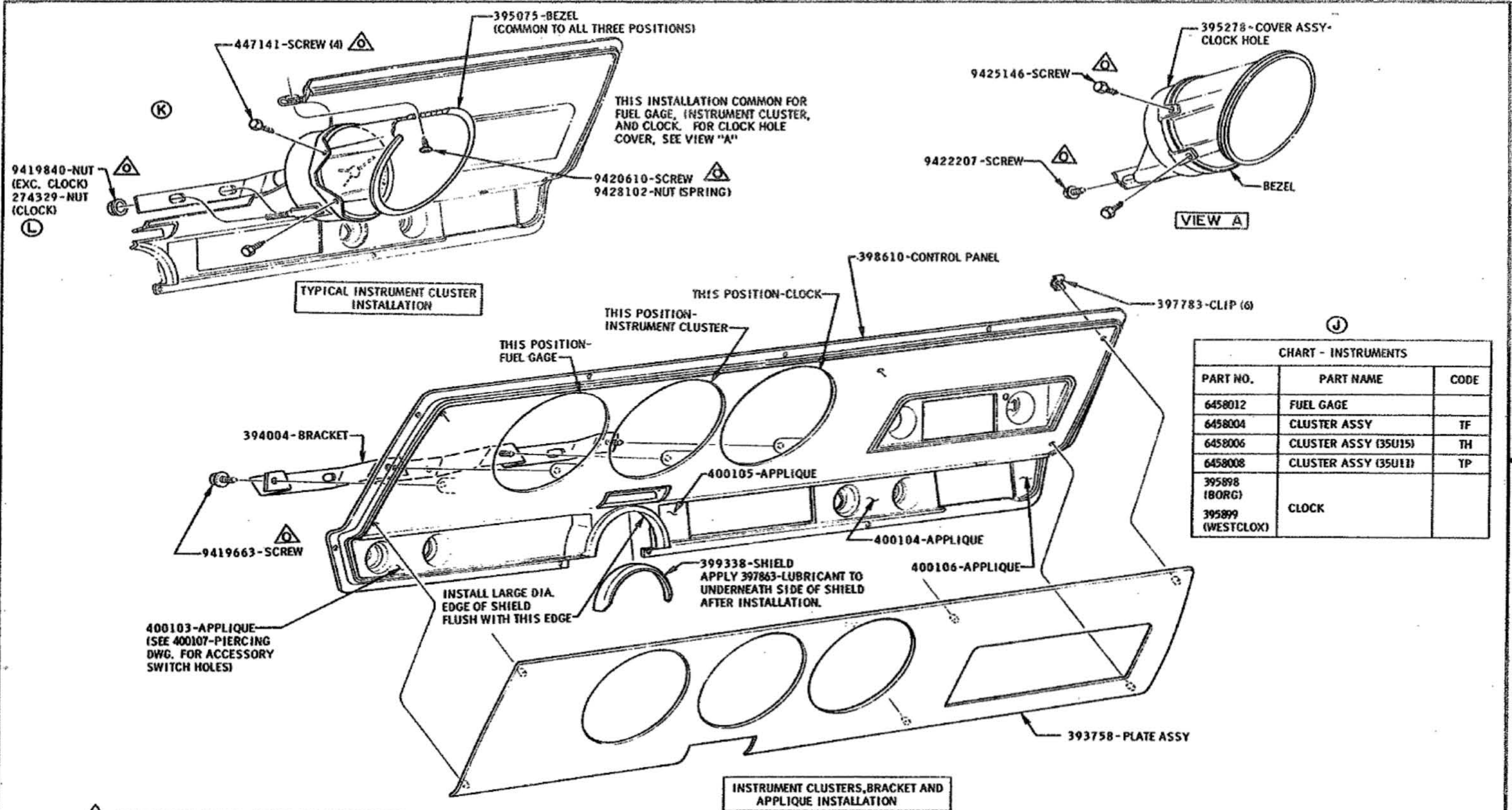


FIGURE 1
SEAL INSTALLATION

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	PART NO.
2-24-68	K	TORQUE ADDED	AM	DT	6-19-67	E	BRACKET REMOVED	BT	DT											A/C EVAPORATOR, BLOWER ASSY & VALVE					
11-11-67	J	WAS 9419303 SCREW	BP	DT	5-26-67	D	WAS 5910594 VALVE	BP	DT											DATE JAN 24 1967	FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	1-2	215	
11-11-67	H	TORQUE REVISED	BT	DT	5-15-67	C	WAS 1369641 ADAPTER ASSY	BT	DT											DR. BY B. PARKER					
7-7-67	G	TORQUES ADDED	J13	BP	1-29-67	B	WAS 3006033-BLOWER ASSY	DT	DT											CHECKER J.E.	REF. 35C60-G1	SERIES B-C			
5-16-68	I	TORQUE REVISED	BADT	DT	6-21-67	F	WAS 9419663-SCREW	BT	DT											APPR. J.E. Malhotra					398163



(J)

CHART - INSTRUMENTS		
PART NO.	PART NAME	CODE
6458012	FUEL GAGE	
6458004	CLUSTER ASSY	TF
6458006	CLUSTER ASSY (35U15)	TH
6458008	CLUSTER ASSY (35U11)	YP
395898 (BORG)	CLOCK	
395899 (WESTCLOX)		

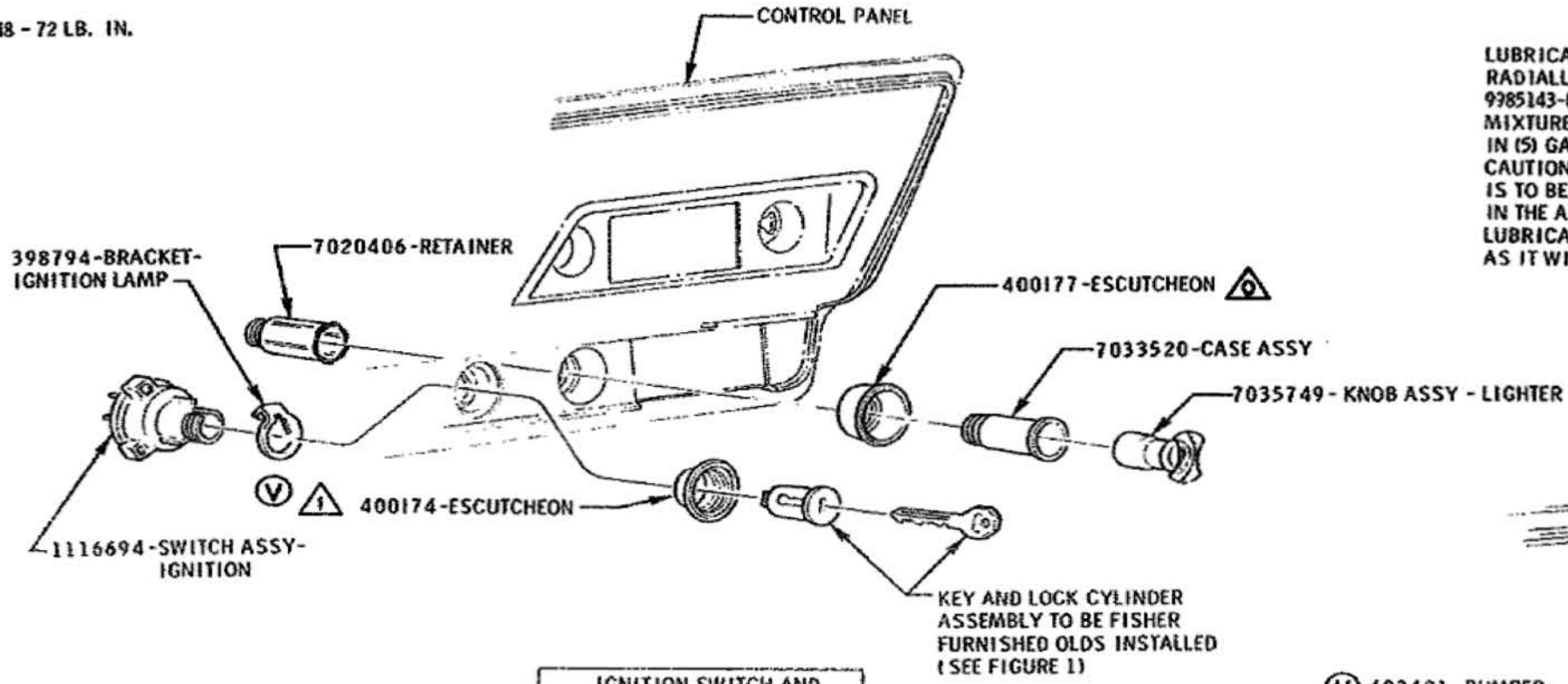
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-21-67	K	NOTE REMOVED	ER	DT	8-18-67	E	WAS 398358-PLATE ASSY	ER	DT											
					7-21-67	J	CLUSTER NO. 5 ADDED	ER	DT	8-23-67	D	NOTES REVISED	ER	DT											
					6-20-67	H	TORQUE NOTE ADDED	ER	DT	8-23-67	C	TACH. BRACKET IS REMOVED	ER	DT											
					5-23-67	G	NOTE REVISED	ER	DT	8-23-67	B	TACHOMETER NO. REMOVED	ER	DT											
11-2-67	L	PART NUMBERS ADDED	ER	DT	5-23-67	F	WAS 9422552 - NUT	ER	DT	1-31-67	A	APPLIQUES ADDED	ER	DT											

1968	REF. 1A2B, 12U 35U11, U15	SERIES B-C	PART NO. 398163
------	---------------------------	------------	-----------------

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

⚠ 48 - 72 LB. IN.



IGNITION SWITCH AND CIGAR LIGHTER INSTALLATION

LUBRICATE WITHIN THIS DIMENSION RADIALLY AROUND THE SWITCH WITH 9985143-LUBRICANT MIXTURE.
MIXTURE: MIX (2) OUNCES OF 9985143 IN (5) GALLONS OF #10 WEIGHT MOTOR OIL.
CAUTION: ONLY A THIN FILM OF LUBRICANT IS TO BE APPLIED TO THE LOCK CYLINDER IN THE AREA SHOWN. BE SURE NO EXCESS LUBRICANT ENTERS THE LOCK CYLINDER, AS IT WILL BE DETRIMENTAL IN TIME.

FIGURE 1

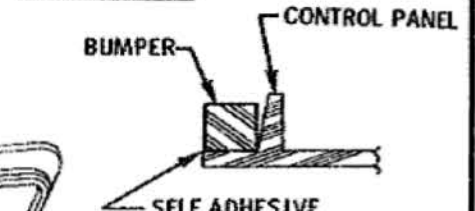


FIGURE 3

TYPICAL SECTION THRU CONTROL PANEL AND BUMPER

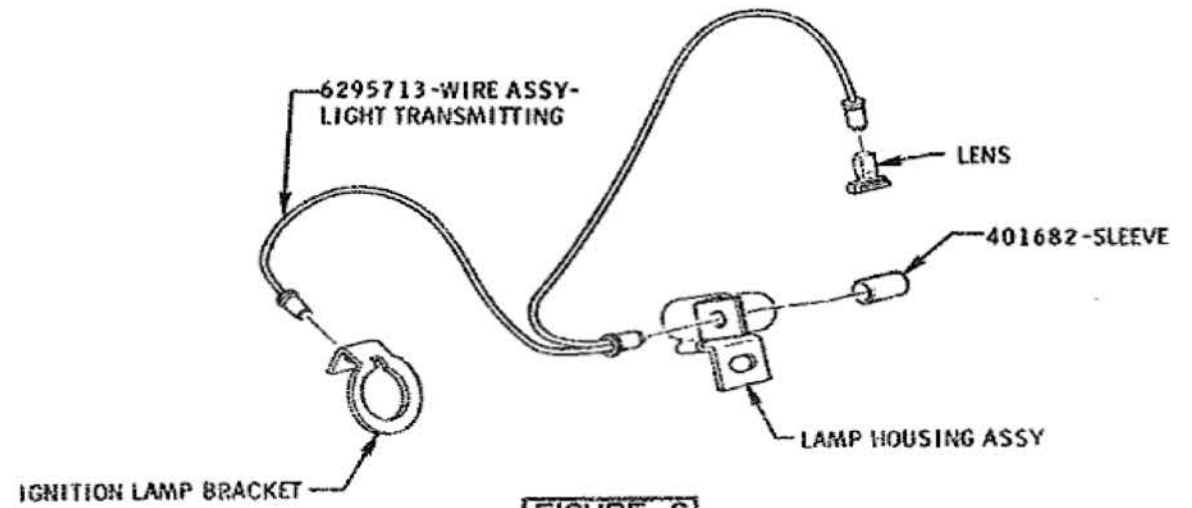
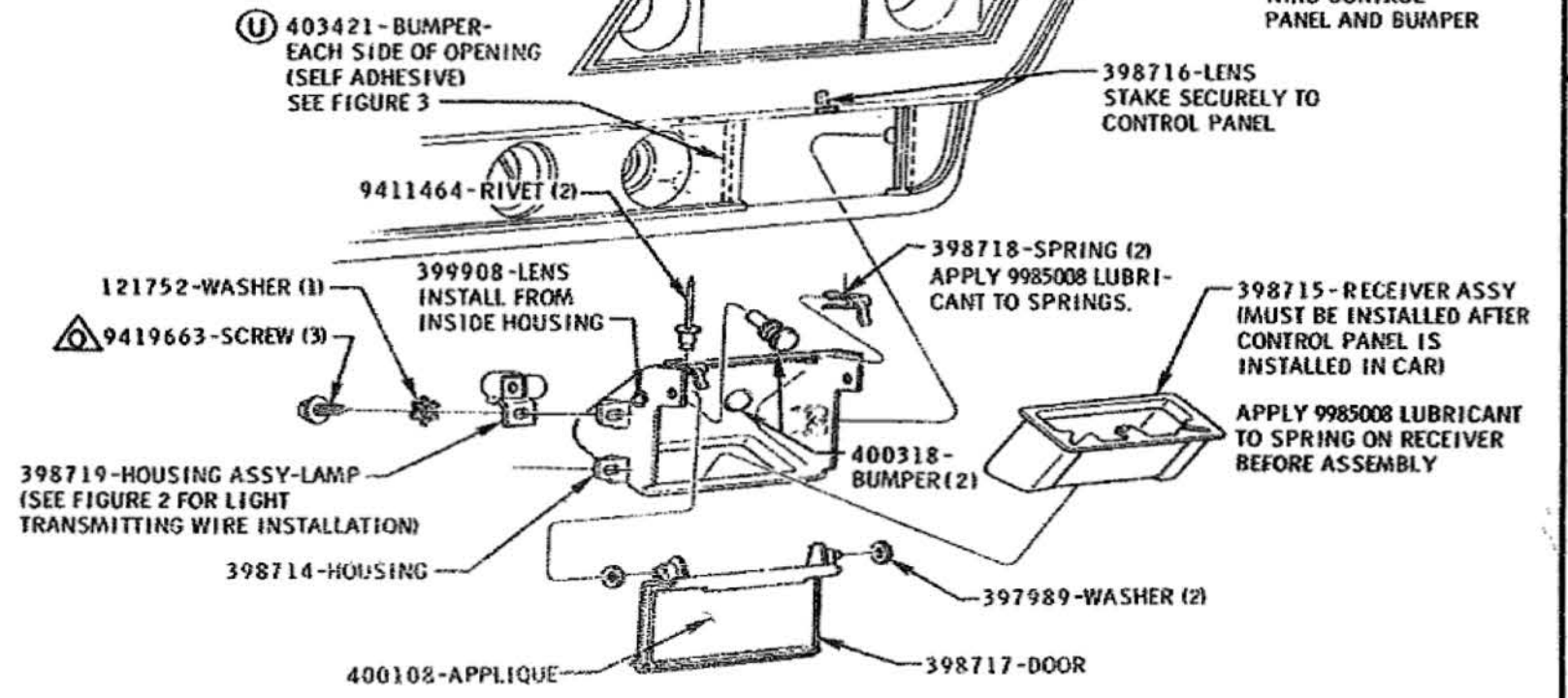


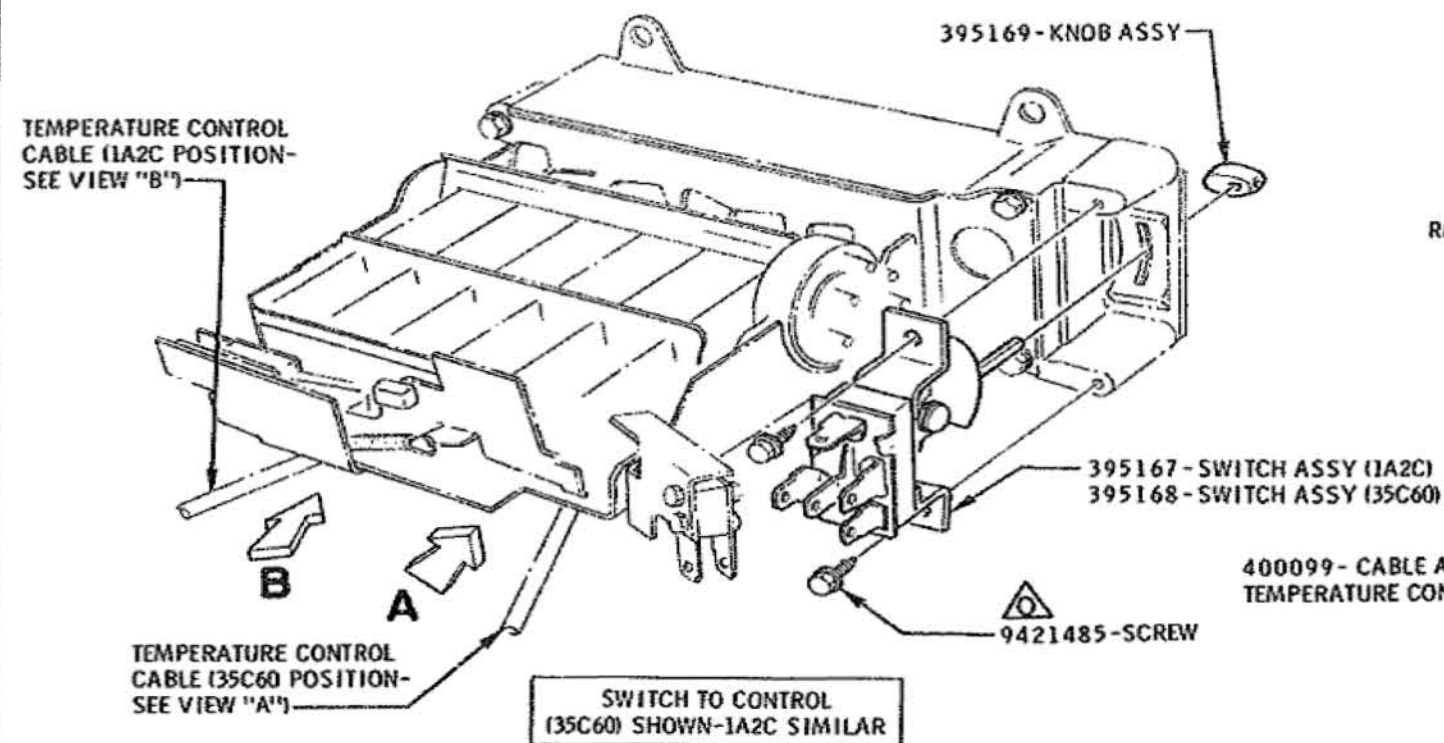
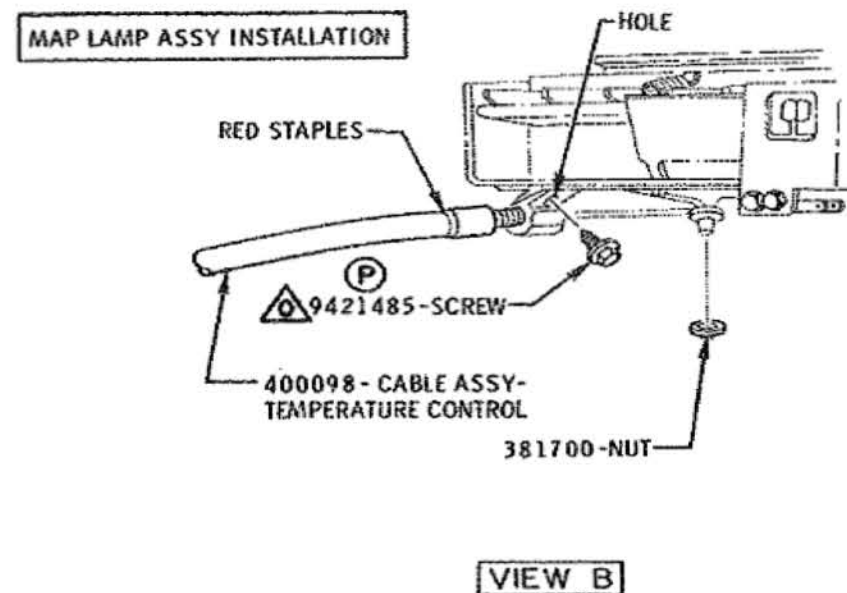
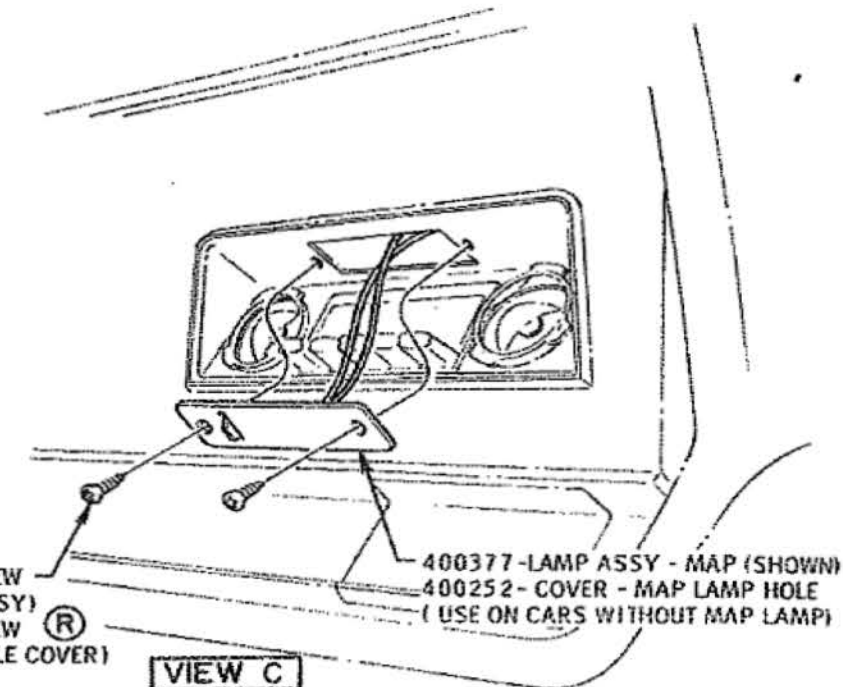
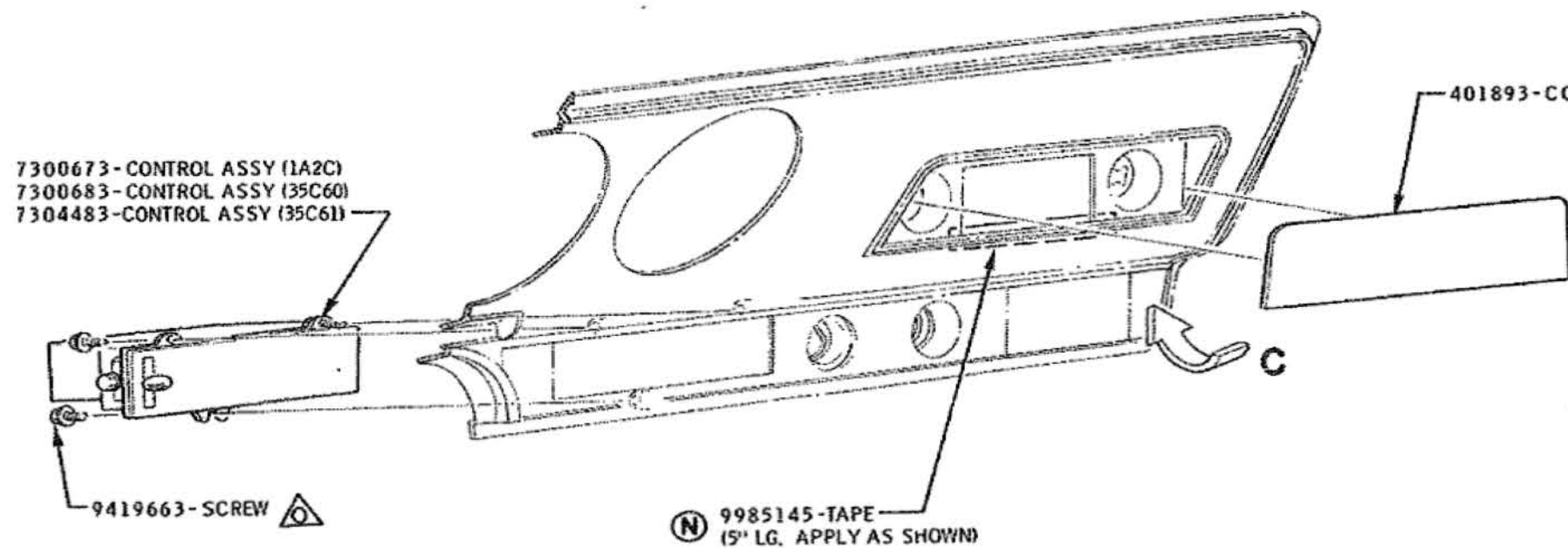
FIGURE 2

SCHEMATIC-INSTALLATION OF LIGHT TRANSMITTING WIRE



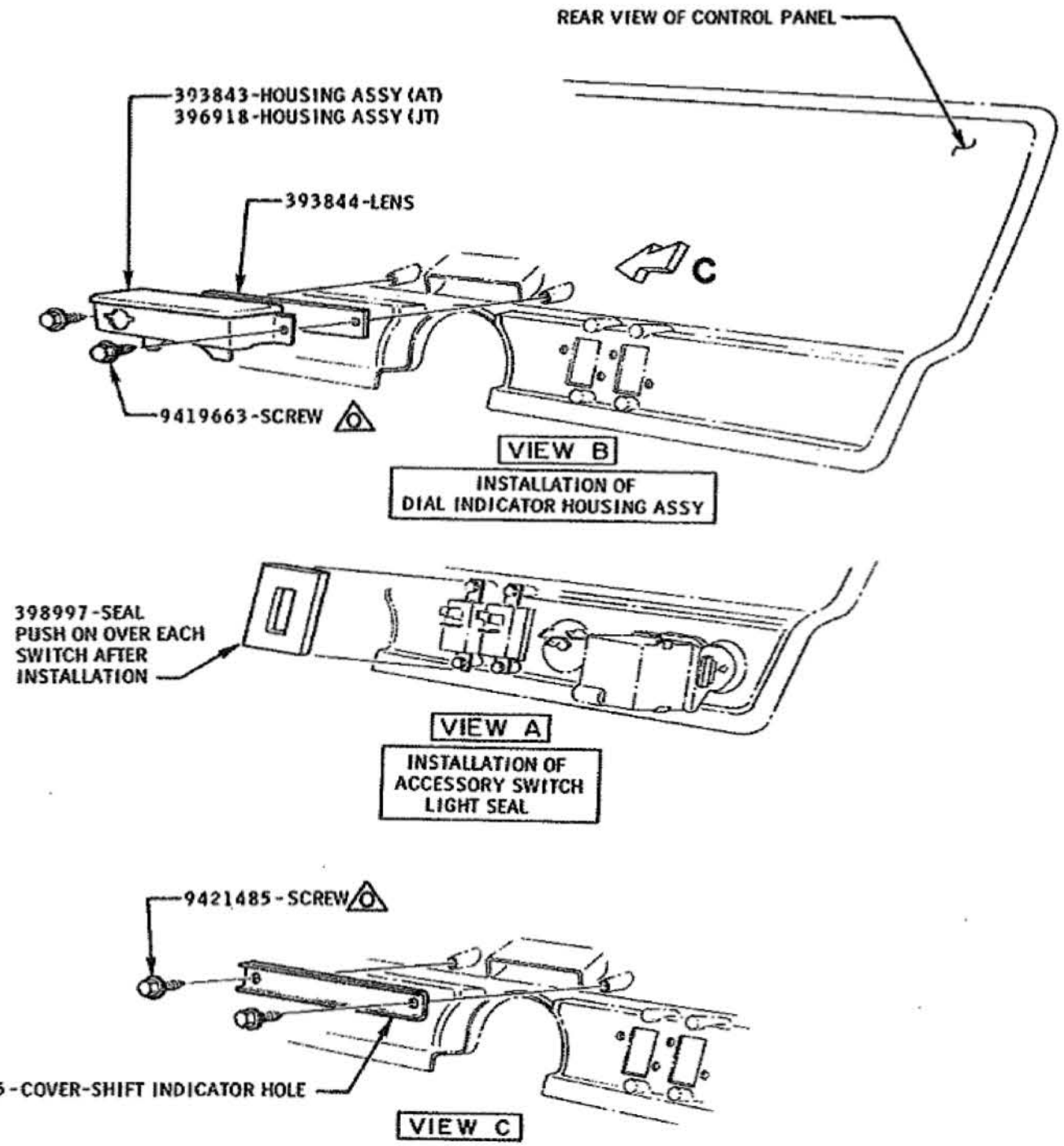
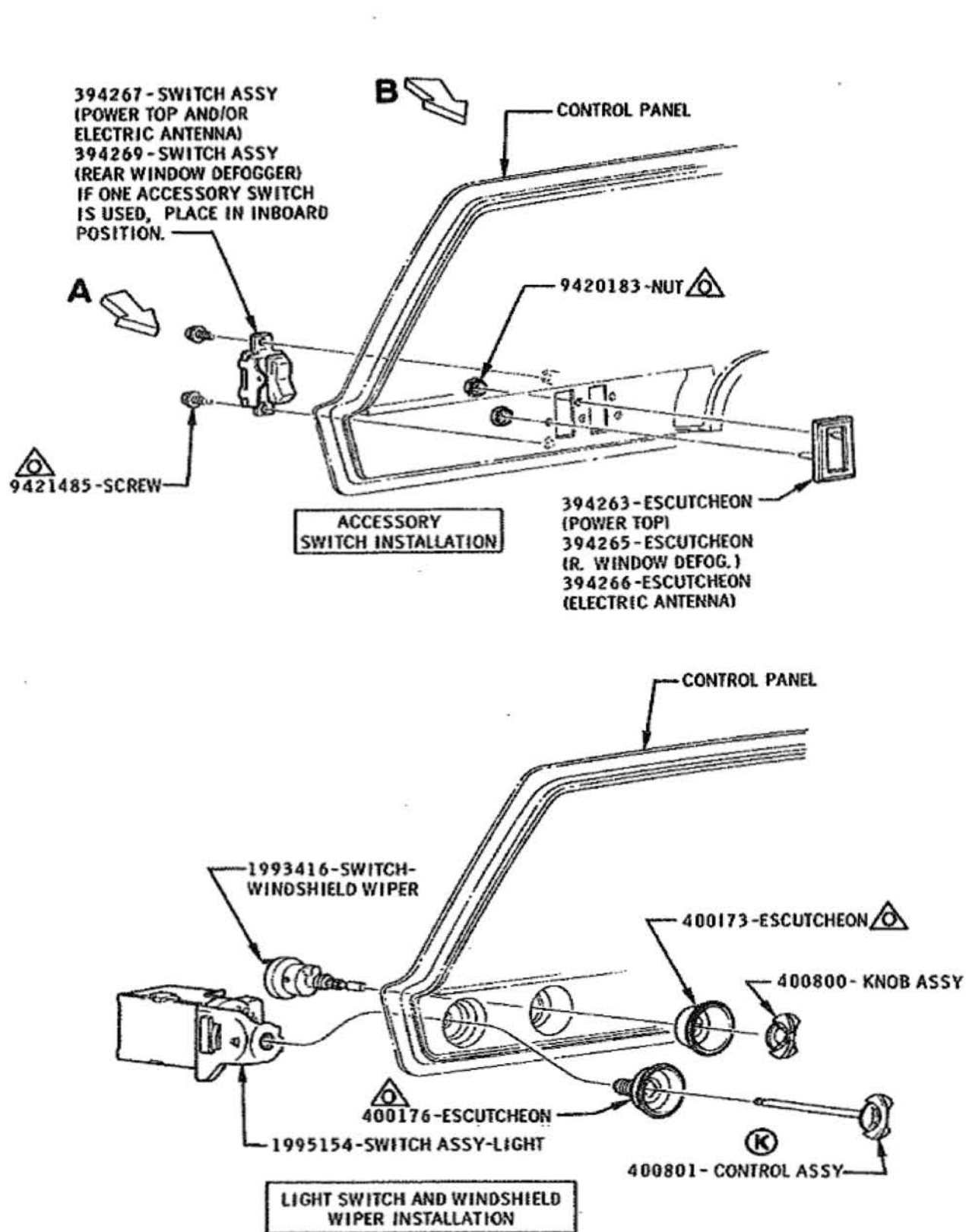
ASH TRAY ASSEMBLY AND INSTALLATION

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					5-23-68	V	TORQUE REVISED									ASH TRAY, LIGHTER, AND IGNITION SWITCH	1968		1-3	113
					2-19-68	U	WAS 400965									DATE OCT. 31, 1966				
					9-29-67	T	9411464-RIVET ADDED									DR. BY ED J. ROE				
					9-11-67	S	LUBE NOTES ADDED									CHECKED				
					8-3-67	R	401682-SLEEVE ADDED									APPR. J. J. Lankens	REF. 12 6Y4	SERIES B-C	PART NO. 398163	



△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

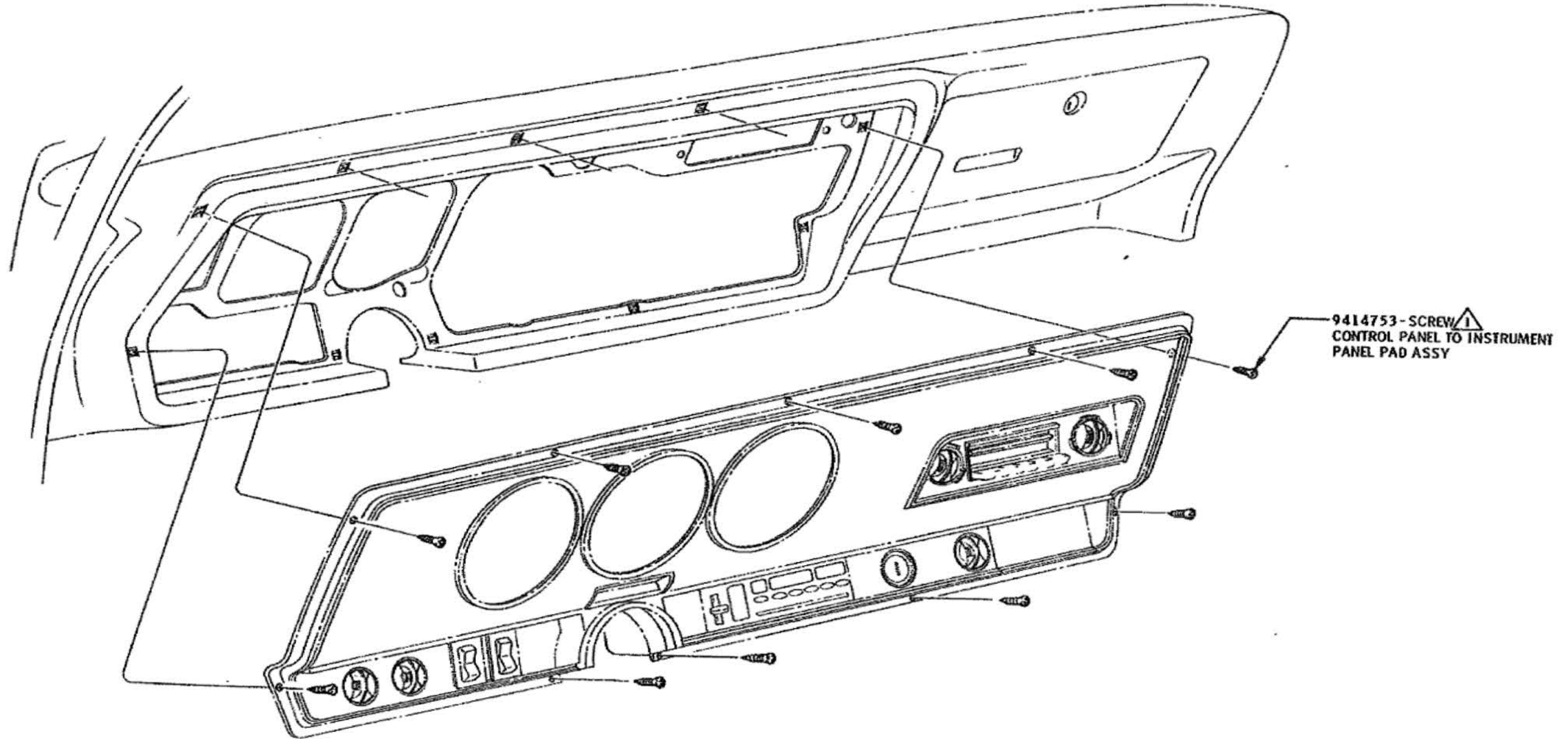
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	
3-8-68	R	PART NOS. REVISED	JR	MS	7-14-67	K	WAS 9414752 - SCREW	BP	MS	4-5-67	E	VIEW C ADDED	SR	DT								HEATER AND A/C CONTROLS AND HOLE COVERS
2-26-68	P	WAS 9419663 - SCREW	RA	MS	6-30-67	J	TORQUE SPEC. ADDED	BP	MS	3-21-67	D	WAS 9421485 SCREW	JK	DT								DATE OCT. 31, 1966
1-5-68	N	PART NUMBER ADDED	SE	DT	5-18-67	H	WAS 398372 - COVER ASSY	ER	DT	3-21-67	C	WAS 7303283 CONTROL	JK	DT								FIRST USED 1968
9-27-67	M	TORQUE SYMBOL ADDED	PL	DT	4-27-67	G	WAS 396237 CABLE ASSY	ER	DT	2-9-67	B	35C48 PART NO. REM'D.	JK	DT								OLDSMOBILE PRODUCT INFORMATION MANUAL
9-7-67	L	WAS 394431 - COVER ASSY	BP	DT	4-27-67	F	WAS 396254 CABLE ASSY	ER	DT	2-9-67	A	WAS 7300683 CONTROL ASSY	JK	DT								MANUAL SECTION 1-3
																						PAGE 114
																						REF. 1A2C, 1B L, 35C48 SERIES 35 C60.61
																						B-C PART NO. 398163



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

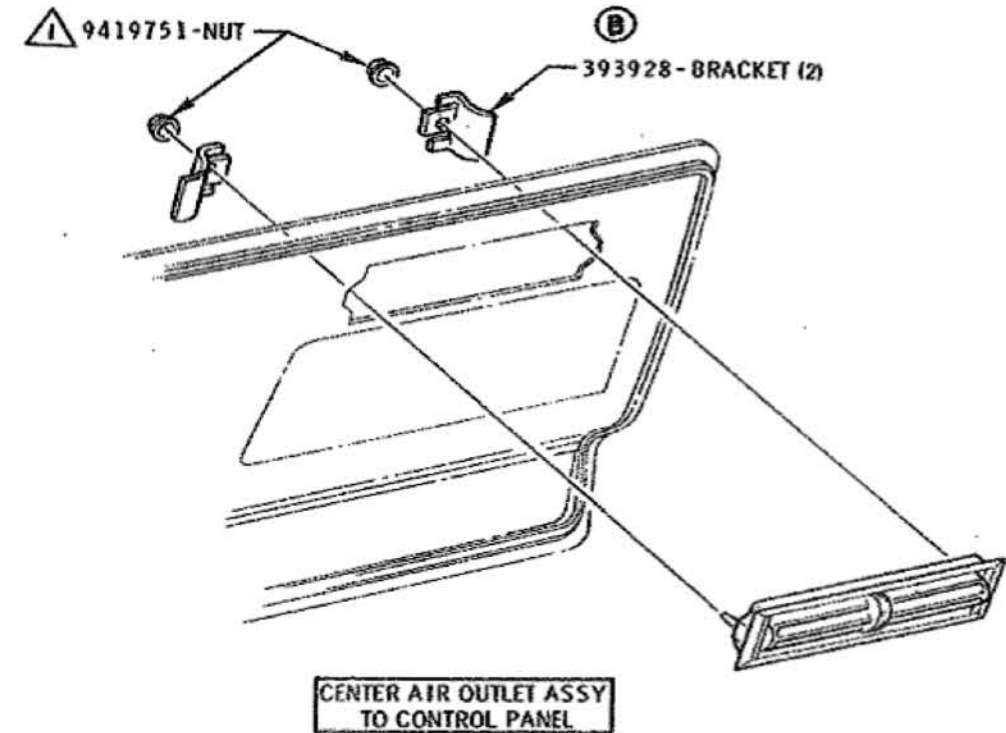
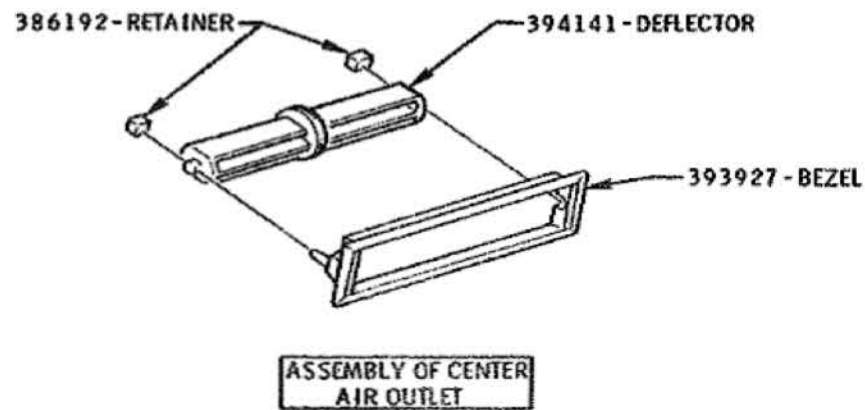
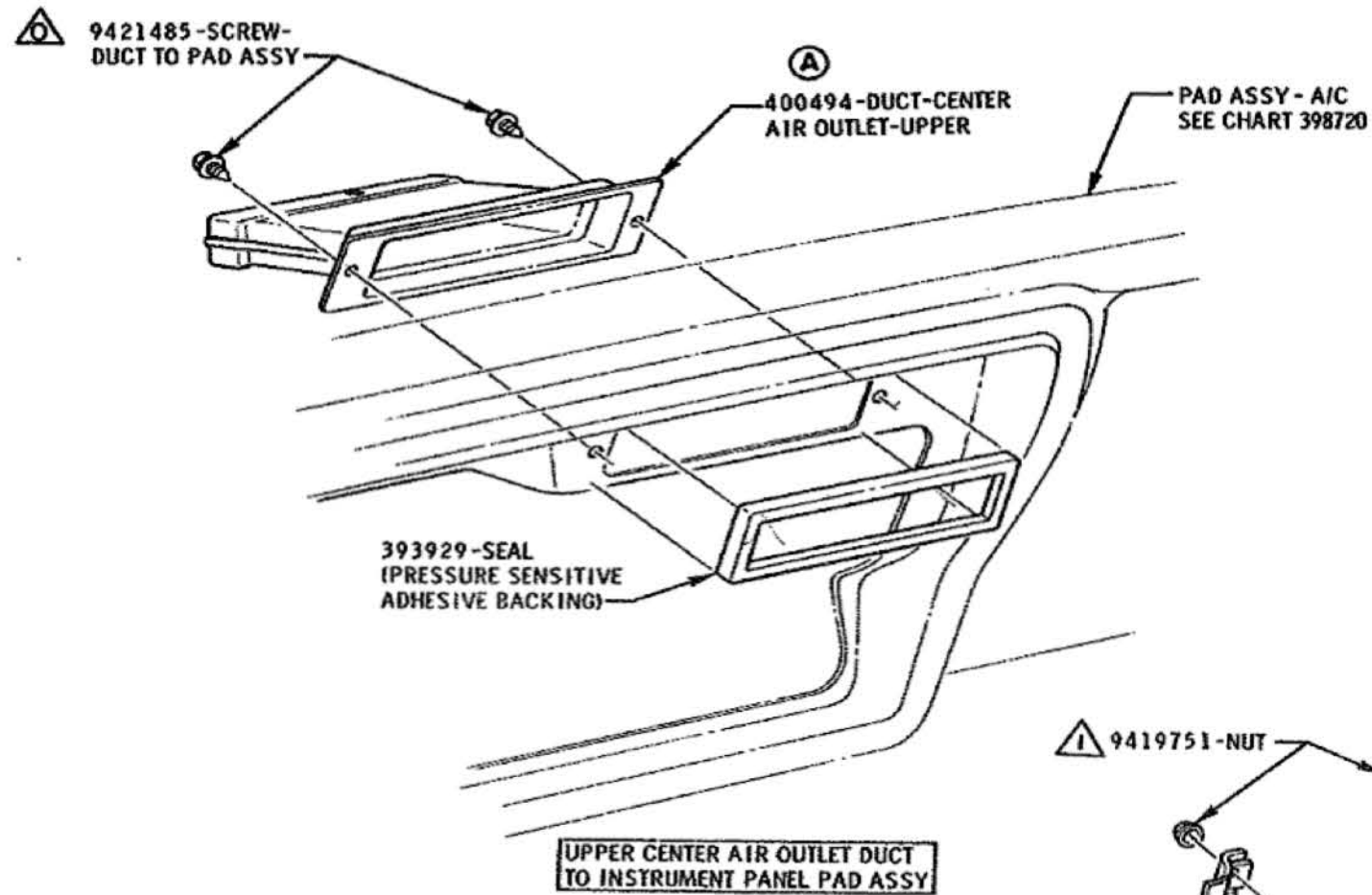
REVISIONS						REVISIONS						TITLE					
DATE	SYM	REVISION	DR.	CK.	SYM	DATE	SYM	REVISION	DR.	CK.	SYM	DATE	SYM	REVISION	DR.	CK.	APPR.
					5-18-67	K	REVISED TO DETAIL										
					5-2-67	J	WAS 1995150 - SWITCH										
					4-13-67	H ₂	1ST TYPE REMOVED										
6-20-67	M	TORQUE NOTE ADDED	R.	MB	3-21-67	G	WAS 400175 - ESC. ASSY										
5-18-67	L	WAS 398375 COVER	JR	DT	3-21-67	F ₂	2ND TYPE ADDED										

TITLE				SWITCHES	
DATE	DR. BY	CHECKED	APPR.	FIRST USED	MANUAL SECTION
OCT. 31, 1966	ED J. ROE			1968	1-3
				REF. 1A2B, 12, 35A, 36	PAGE 115
				35 UB0, 35C50, 35A1A	
				SERIES B-C	PART NO. 398163



⚠ 15-20 LB. IN.

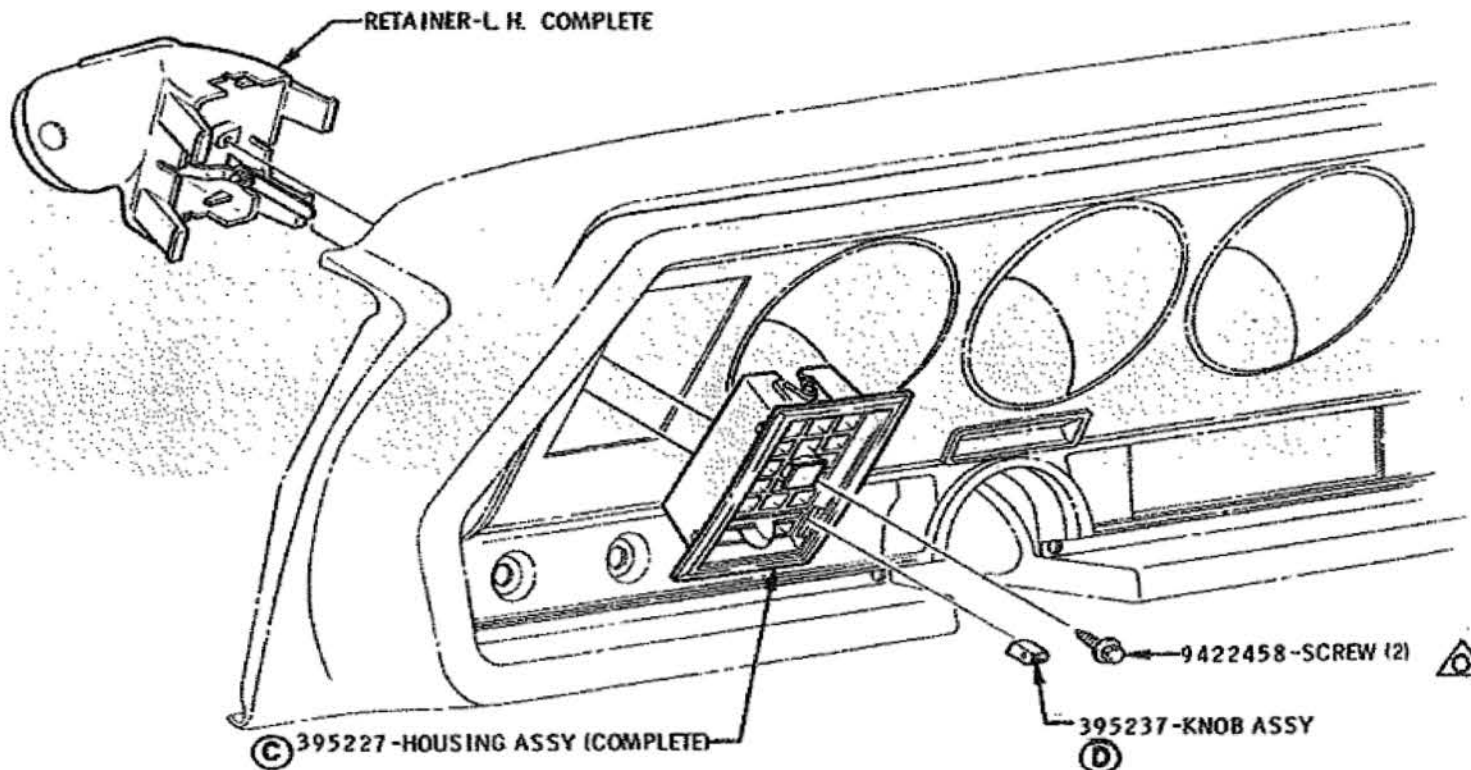
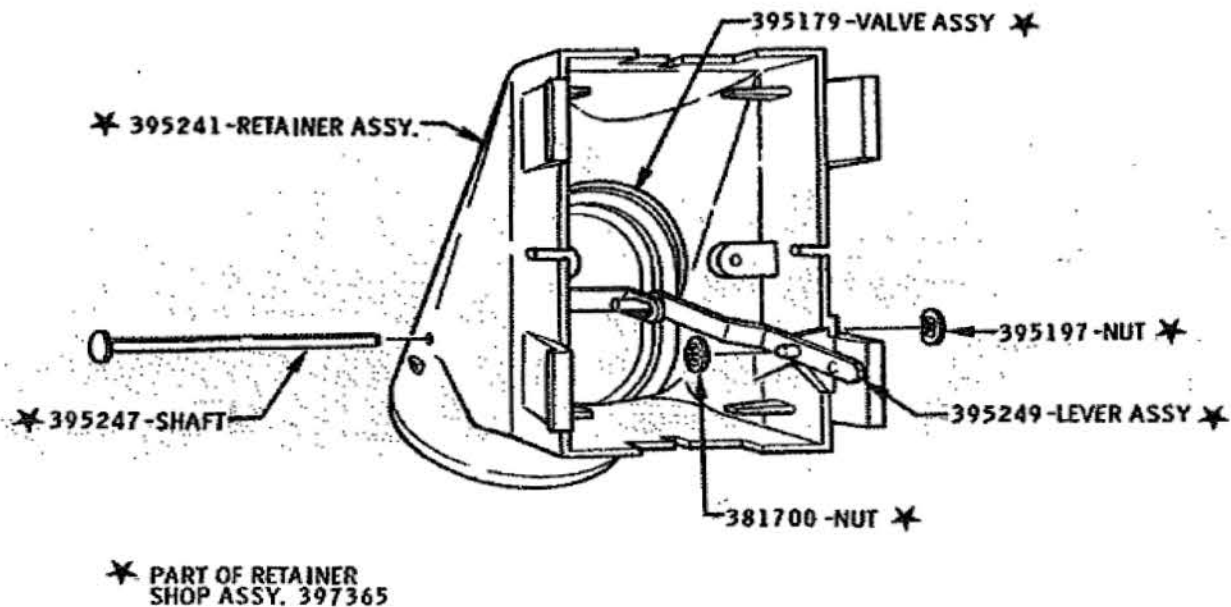
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.		
TITLE: CONTROL PANEL FASTENING																	
DATE OCT. 31, 66											FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SECTION	1-3	PAGE	119
DR. BY BOYER, J.											CHECKED	<i>[Signature]</i>	OLD INFORMATON MANUAL	SERIES	B-C	PART	NO.
APPR. <i>[Signature]</i>											REF. 1A2B	398163					



10 - 15 LB. IN.

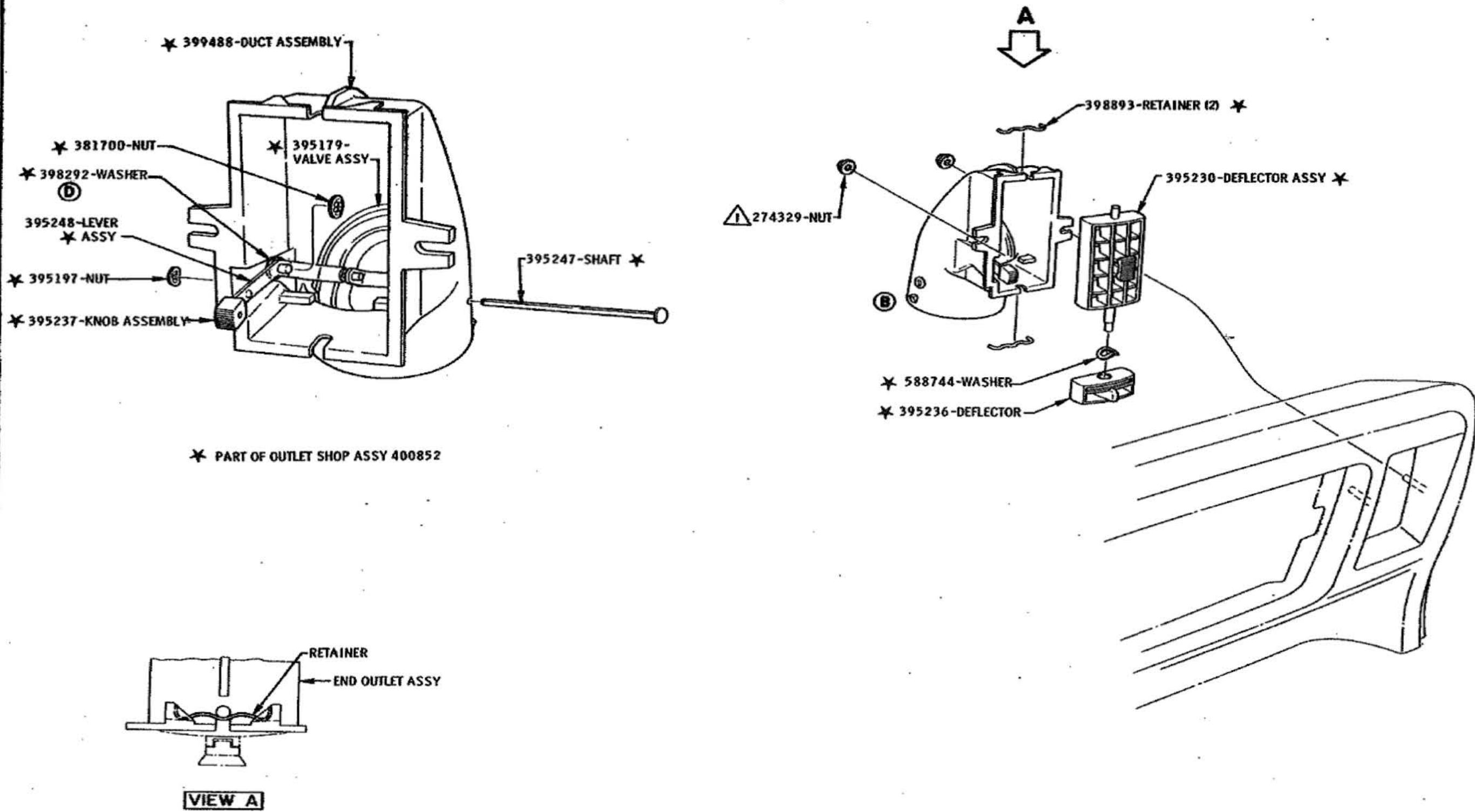
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
																			A/C CENTER AIR OUTLET	1968		1-3	210
					6-30-67	C	TORQUE SPECS. ADDED												DATE OCT. 31, 1966				
					9-28-67	B	REVISED TO DETAIL												DR. BY BOYER, J.				
					2-28-67	A	WAS 394675 DUCT												CHECKED				
																			APPR.				
																			REF. 35660-61				
																					SERIES	PART NO.	
																					B-C	398163	



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

						6-30-67 E TORQUE SPEC. ADDED	E	MS	TITLE				
						3-21-67 D WAS 399786-KNOB ASSY	D	DT	AIR CONDITIONING END AIR OUTLET L. H.				
						3-21-67 C WAS 399785-HOUSING ASSY	C	DT	DATE NOV. 1, 1966	FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 1-3	PAGE 211
						2-8-67 B REVISED TO DETAIL	B	DT	DR. BY BOYER, J.	REF. 35C60, 61			
						2-6-67 A REVISED & REDRAWN	A	DT	CHECKED <i>JTB</i>	SERIES B-C	PART NO. 398163		
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																AIR CONDITIONING END AIR OUTLET - R. H.	1968		1-3	212
					8-9-67	D	398292-WASHER ADDED	ED	JR							DATE FEB. 6, 1967				
					6-30-67	C	TORQUE SPEC. ADDED	ED	JR							DR. BY ED J. ROE				
					5-25-67	B	TAB ADDED	ED	JR							CHECKED <i>J.R.</i>				
					3-21-67	A	PART NO'S. REVISED	ED	JR							APPR. <i>J.R.</i>				
																		SERIES B-C	PART NO. 398163	

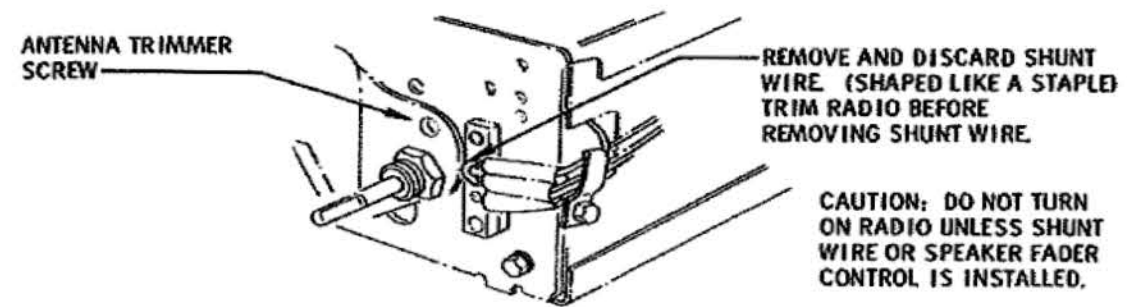
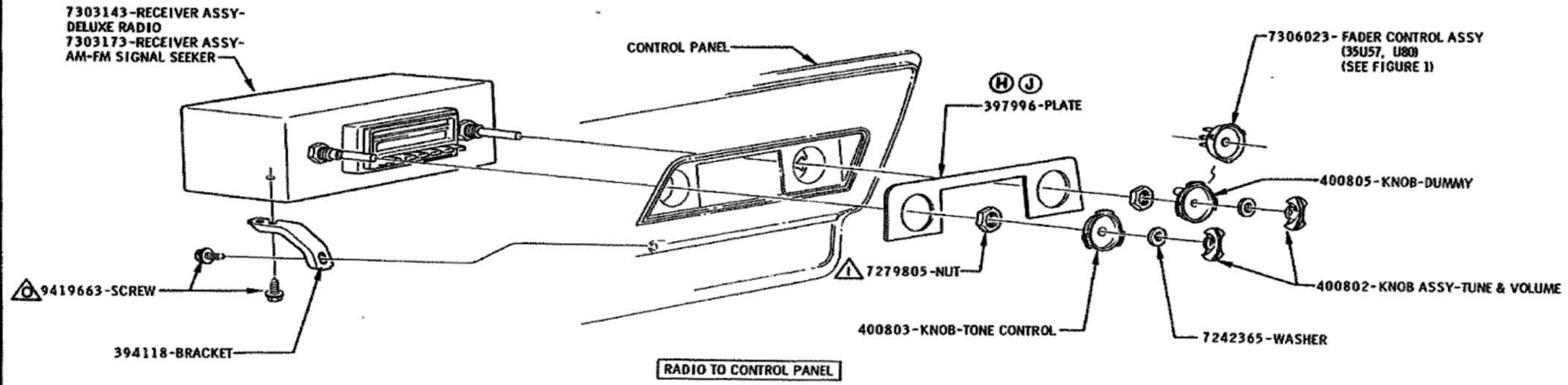


FIGURE 1

ANTENNA TRIMMING INSTRUCTIONS

TRIMMING TO BE DONE AFTER ALL SHEET METAL HAS BEEN INSTALLED.

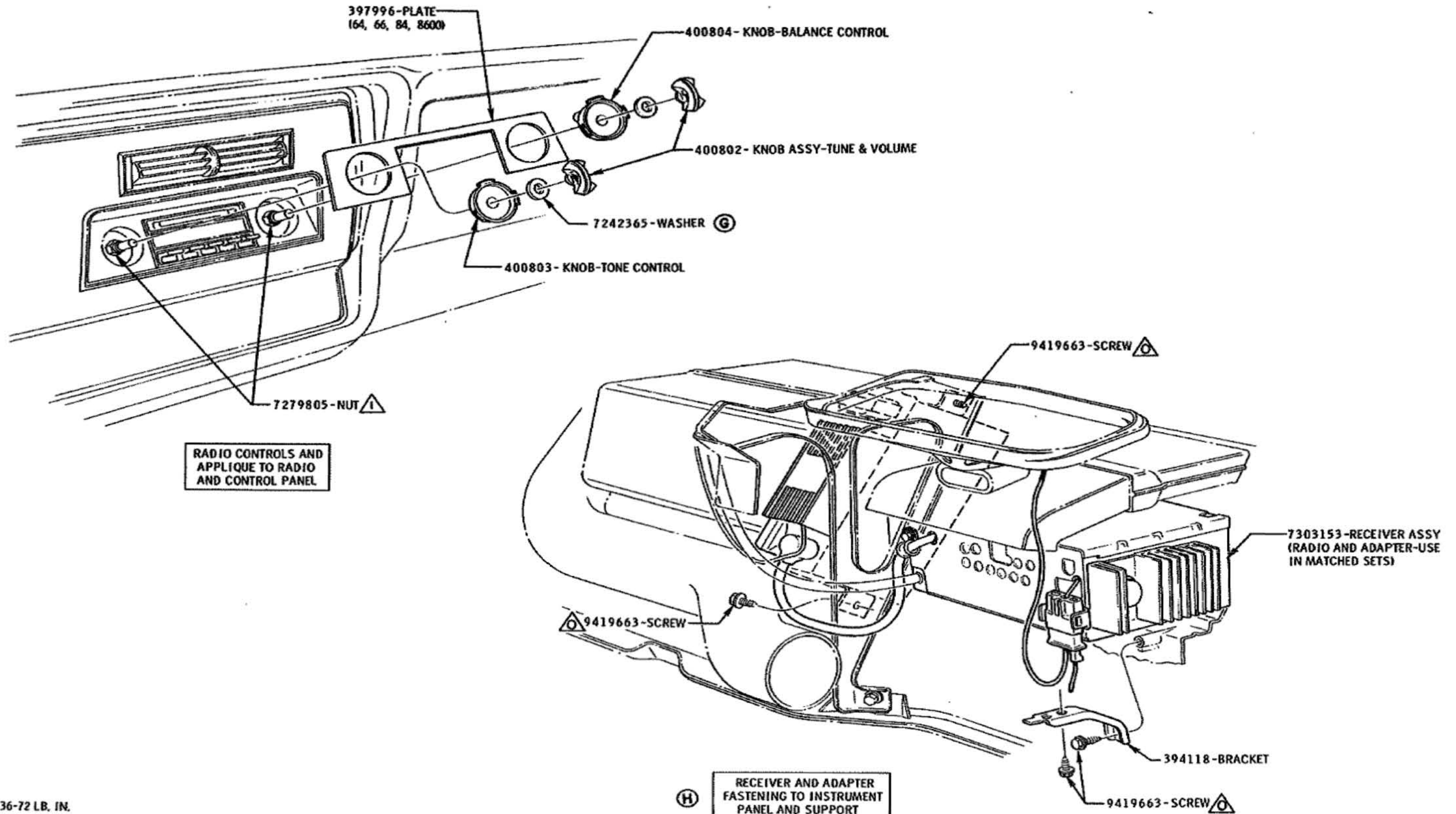
EXTEND ANTENNA MAST TO 31 IN. PLUS OR MINUS 1 IN. ADVANCE VOLUME CONTROL TO FULL ON. TUNE RADIO TO THE PROVIDED SIGNAL (AT OR NEAR 1400 KC) WHICH HAS BEEN ADJUSTED TO PROVIDE THE LOWEST PRACTICAL AMOUNT OF SOUND FROM THE RADIO AFTER THE TRIMMER HAS BEEN PEAKED. CAREFULLY TURN ANTENNA TRIMMING SCREW BACK AND FORTH UNTIL MAXIMUM VOLUME HAS BEEN RECEIVED.

⚠ 36-72 LB. IN.

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

(EXCEPT STEREOPHONIC RADIO)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-27-67	K	TORQUE NOTE ADDED	PL	DT	9-6-67	E	1 ST TYPE FADER No. Added	RJ	DT		RADIO				
					7-14-67	J	WAS 394119 - PLATE	BR	DT	3-21-67	D4	SECOND TYPE ADDED	EJ	DT		DATE NOV 1, 1966	1968		1-3	320
					5-24-67	H	WAS 397996 - PLATE	FJ	DT	2-8-67	C	WAS 397866 - KNOB-TONE	SL	DT		DR. BY ED J. ROE				
					5-2-67	G	WAS 727805 WASHER	FJ	DT	2-8-67	B	WAS 397867 - KNOB-DUMMY	SL	DT		CHECKED <i>[Signature]</i>				
					4-13-67	F4	1 ST TYPE REMOVED	EJ	DT	2-8-67	A	WAS 397865 - KNOB ASSY	RJ	DT		APPR. <i>[Signature]</i>	REF. 35059-63	SERIES B-C	PART NO. 398163	



RADIO CONTROLS AND APPLIQUE TO RADIO AND CONTROL PANEL

RECEIVER AND ADAPTER FASTENING TO INSTRUMENT PANEL AND SUPPORT

I 36-72 LB. IN.

A MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	STEREOPHONIC RADIO	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
				9-13-67	E1	1ST TYPE REMOVED	PL	3-21-67	D3	2ND TYPE ADDED	PL						NOV. 1, 1966	1968		1-3	321	
				9-27-67	J	TORQUE NOTE ADDED	PL															
				9-27-67	H	REVISED (REDRAWN)	SK	2-9-67	C	WAS 398355-KNOB BALANCE	SK						ED J. ROE					
				5-2-67	G	WAS 7279015-WASHER	SK	2-9-67	B	WAS 397866-KNOB TONE	SK											
				4-12-67	F	ADAPTER MTG. REVISED	SK	2-9-67	A	WAS 397865-KNOB TONE	SK											

REF. 35 USB
SERIES **B-C**
PART NO. **398163**

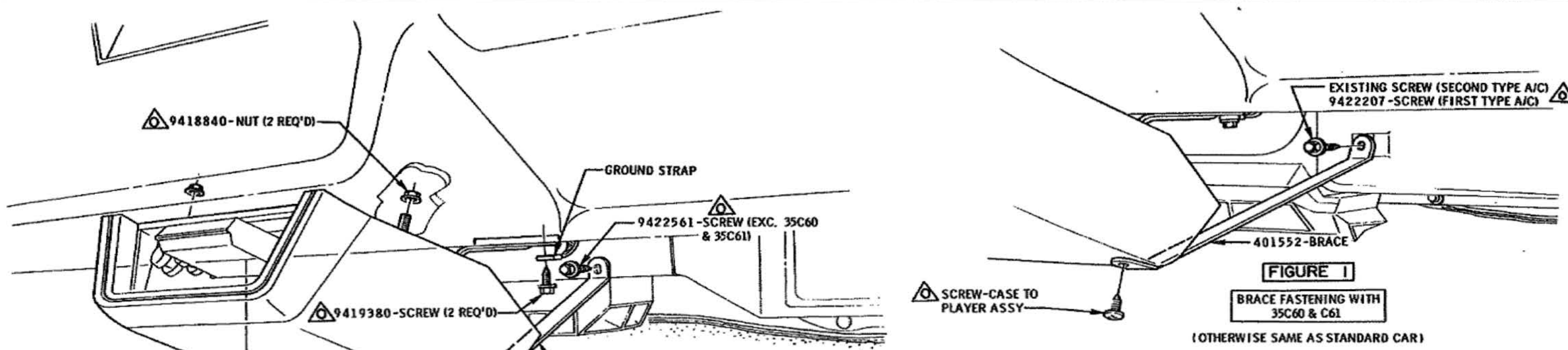


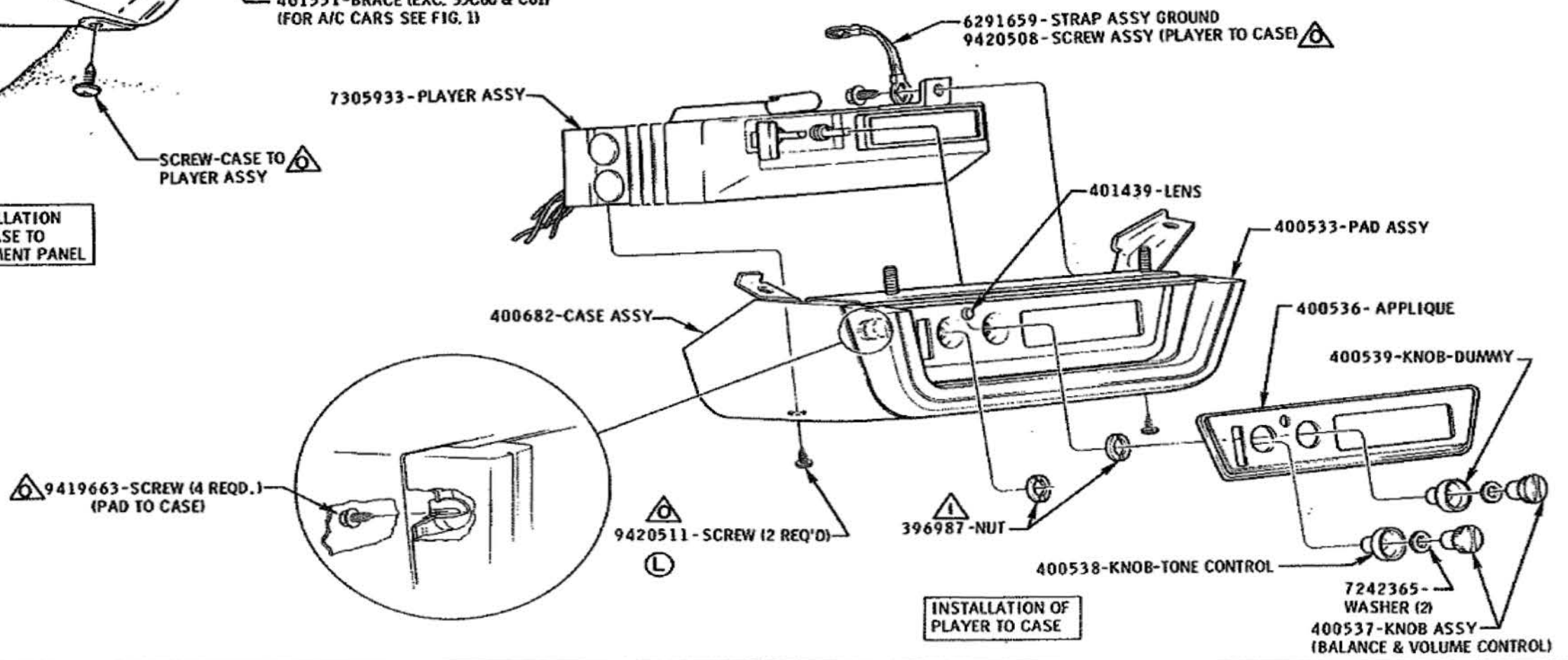
FIGURE 1
BRACE FASTENING WITH 35C60 & C61
(OTHERWISE SAME AS STANDARD CAR)

NOTE:
SEE SECTION 0
PAGE 145 FOR DRILLING

INSTALLATION
OF CASE TO
INSTRUMENT PANEL

STEREO TAPE PLAYER
IS TO BE INSTALLED IN
CONJUNCTION WITH
REAR SEAT SPEAKER
(SEE SECT. 1-4) AND
FADER CONTROL ON
RADIO (SEE SECT. 1-3)

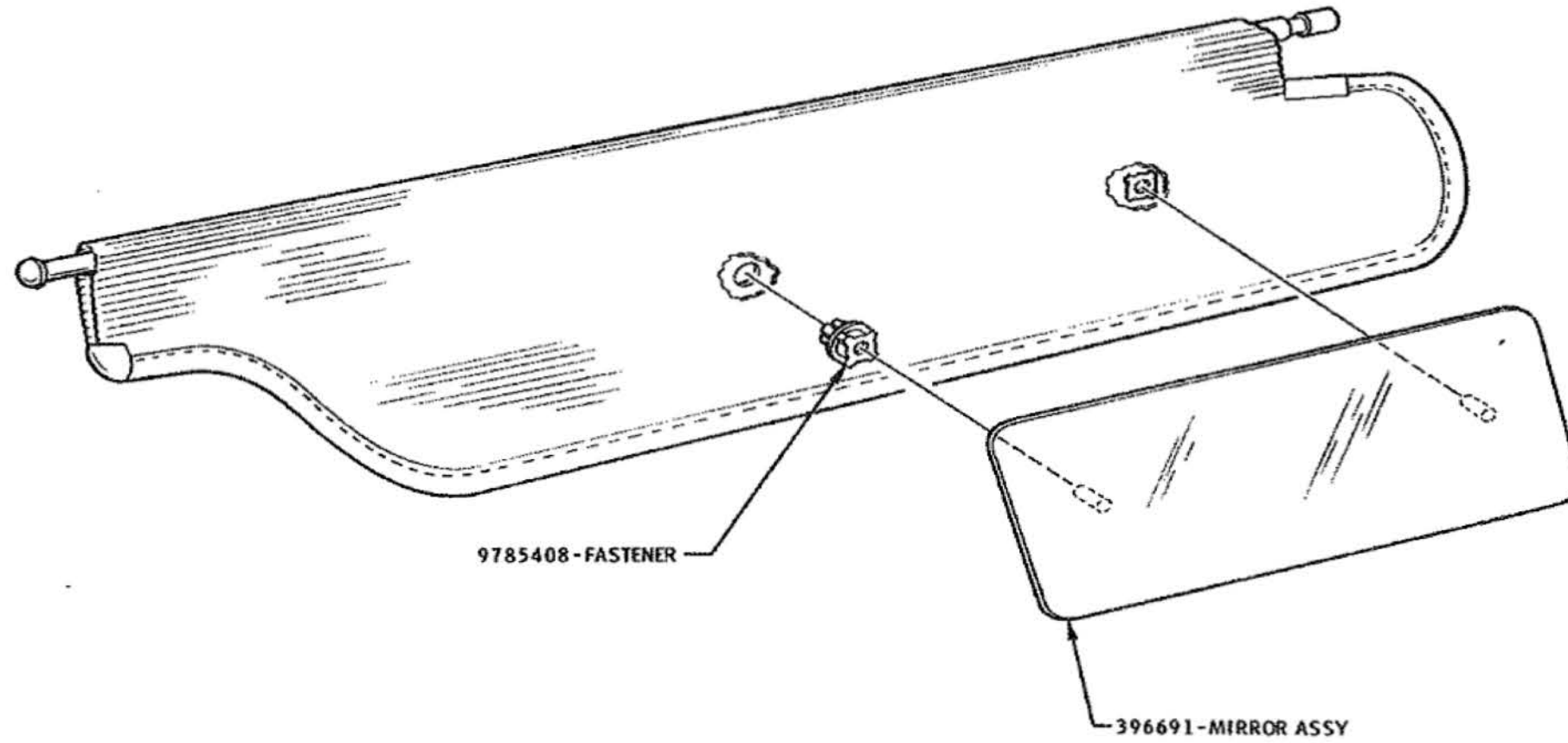
FOR ALBUM SEE
SECT. 0 PAGE 120



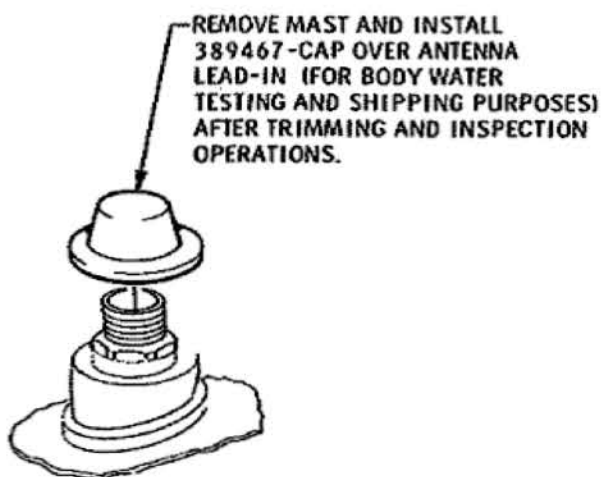
INSTALLATION OF
PLAYER TO CASE

⚠ 36-72 LB. IN.
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	STEREO TAPE PLAYER	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
					6-19-67	K	WAS 7305923 PLAYER	J13	DT	5-26-67	E	7242365 WASHER ADDED	F3	DT		DATE DEC. 21, 1966	1968		1-3	322	
					6-12-67	J	WAS 9419845 NUT	J13	DT	5-11-67	D	PART NO ADDED	F3	DT		DR. BY B. PARKER					
9-27-67	N	TORQUES ADDED	FL	DT	6-12-67	H	401439 LENS ADDED	J13	DT	4-29-67	C	REVISED & REDRAWN	J13	DT		CHECKED J. J. J.					
7-25-67	M	REVISED & REDRAWN		DT	6-12-67	G	NUT ADDED	J13	DT	2-16-67	B	NOTE RELOCATED	F6	DT		APPR. J. J. J.					
6-26-67	L	WAS 161801 SCREW	J13	DT	6-12-67	F2	GROUND STRAP ADDED	J13	DT	2-8-67	A	WAS 397865-KNOB ASSY	F3	DT				35057	B-C		398163

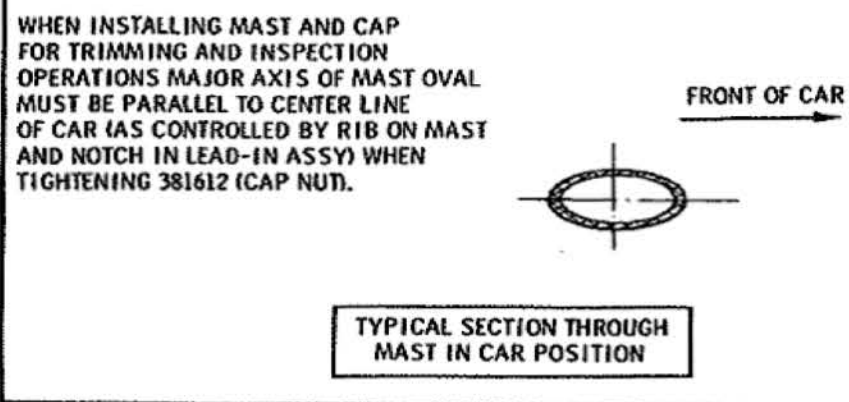


										TITLE					
										VISOR VANITY MIRROR		FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE
										DATE	1968	INFORMATION MANUAL	1-4	117	
										DR. BY					
										CHECKED					
										APPR.					
										REF.	35Y60	SERIES	PART		
												ABCE	398162-3-4		
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.



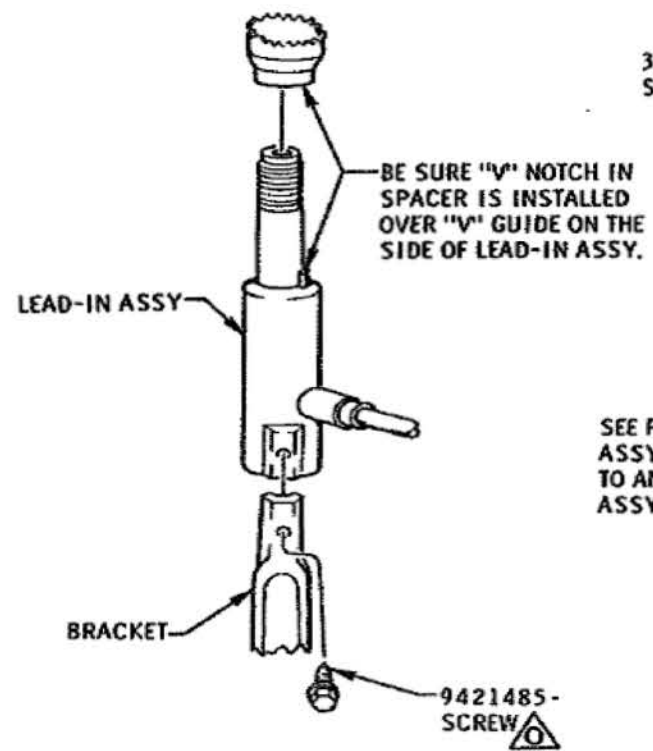
REMOVE MAST AND INSTALL 389467-CAP OVER ANTENNA LEAD-IN (FOR BODY WATER TESTING AND SHIPPING PURPOSES) AFTER TRIMMING AND INSPECTION OPERATIONS.

CAP INSTALLATION

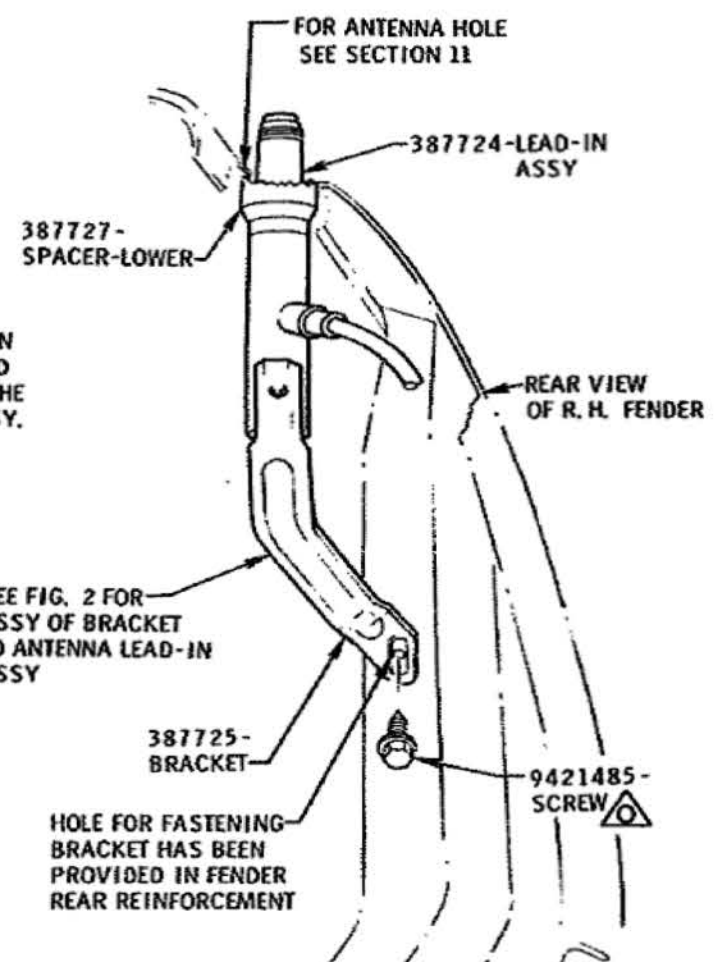


WHEN INSTALLING MAST AND CAP FOR TRIMMING AND INSPECTION OPERATIONS MAJOR AXIS OF MAST OVAL MUST BE PARALLEL TO CENTER LINE OF CAR (AS CONTROLLED BY RIB ON MAST AND NOTCH IN LEAD-IN ASSY) WHEN TIGHTENING 381612 (CAP NUT).

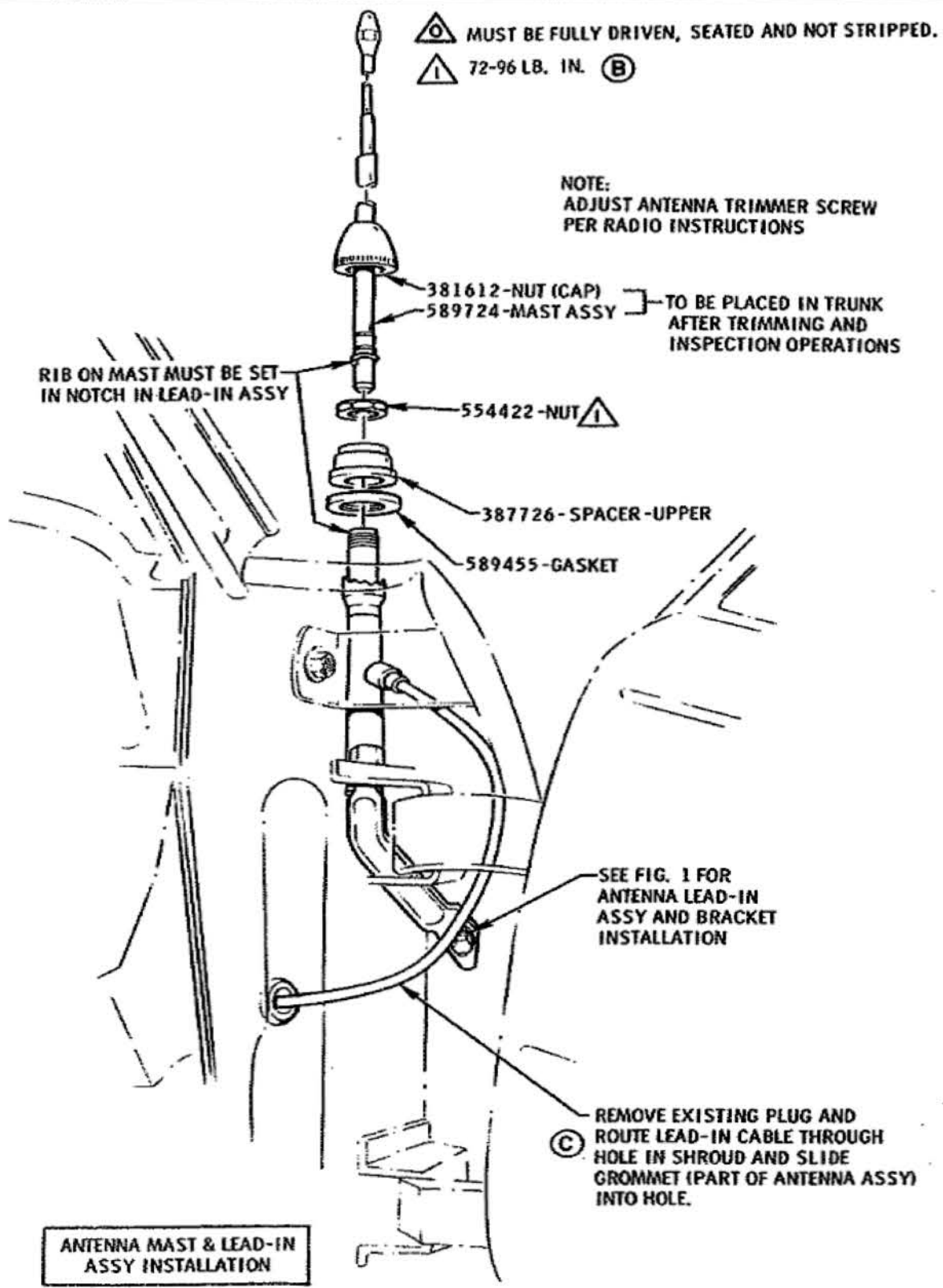
TYPICAL SECTION THROUGH MAST IN CAR POSITION



**FIGURE 2
BRACKET TO LEAD-IN ASSY**



**FIGURE 1
LEAD-IN ASSEMBLY BRACKET MOUNTING**



ANTENNA MAST & LEAD-IN ASSY INSTALLATION

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.
⚠ 72-96 LB. IN. ⓑ

NOTE:
ADJUST ANTENNA TRIMMER SCREW PER RADIO INSTRUCTIONS

TO BE PLACED IN TRUNK AFTER TRIMMING AND INSPECTION OPERATIONS

SEE FIG. 1 FOR ANTENNA LEAD-IN ASSY AND BRACKET INSTALLATION

Ⓒ REMOVE EXISTING PLUG AND ROUTE LEAD-IN CABLE THROUGH HOLE IN SHROUD AND SLIDE GROMMET (PART OF ANTENNA ASSY) INTO HOLE.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					1-10-65	C	NOTE REVISED			NOV. 18, 1966						DATE	1968		1-4	320
					10-9-67	B	TORQUE ADDED									DR. BY B. PARKER				
					9-28-67	A	TORQUE NOTE ADDED									CHECKED				
																APPR. T. PARKER	REF. 35 U 58, 59, 63	SERIES B-C	PART NO. 398163	

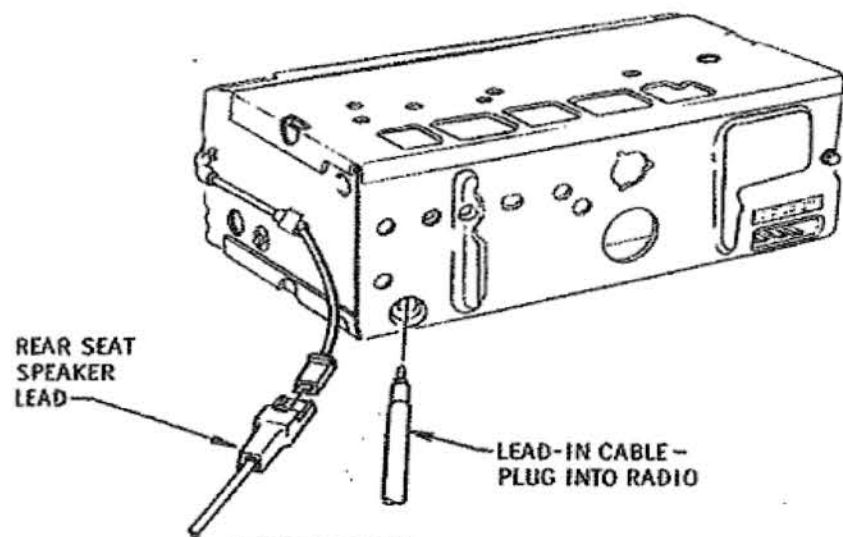
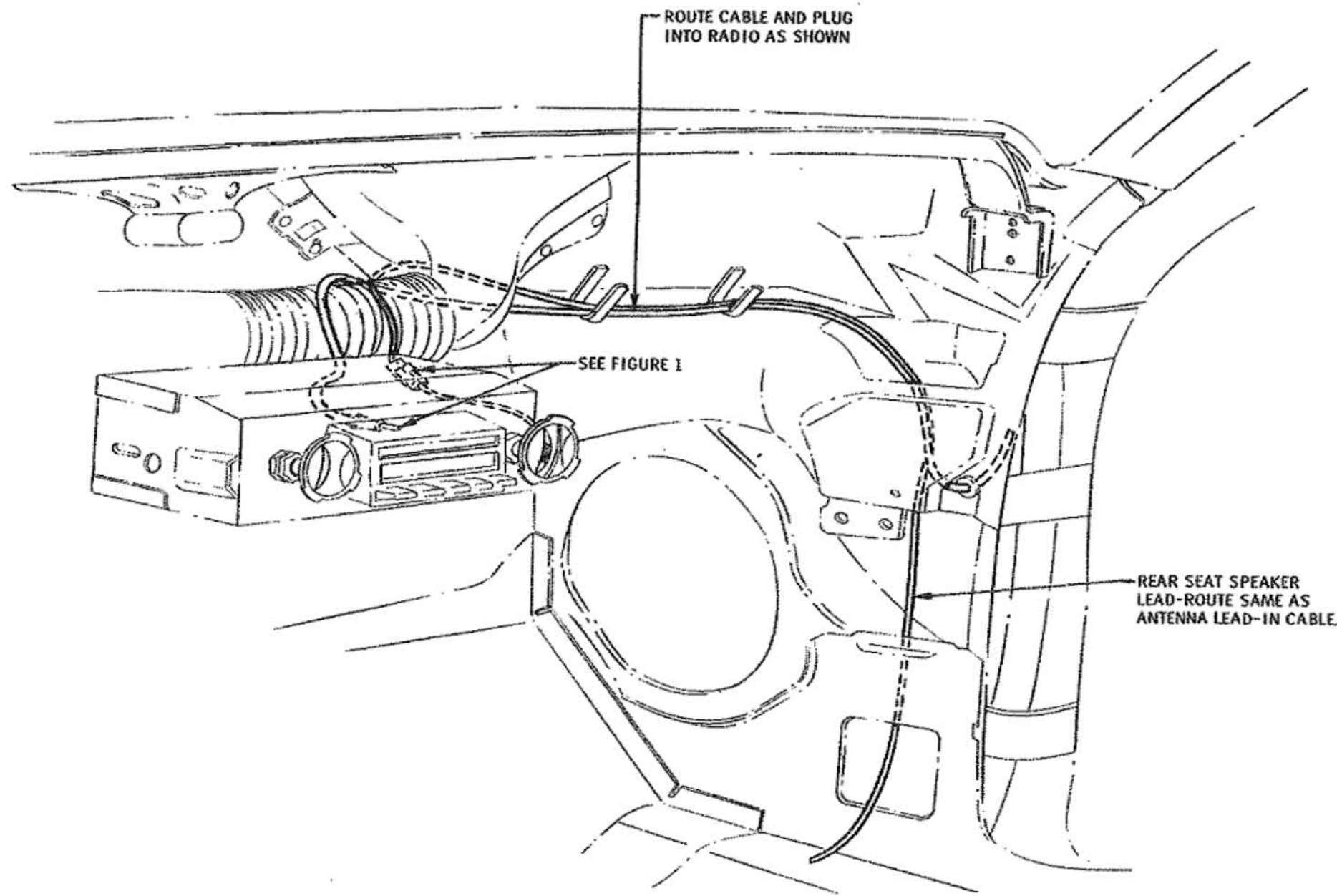
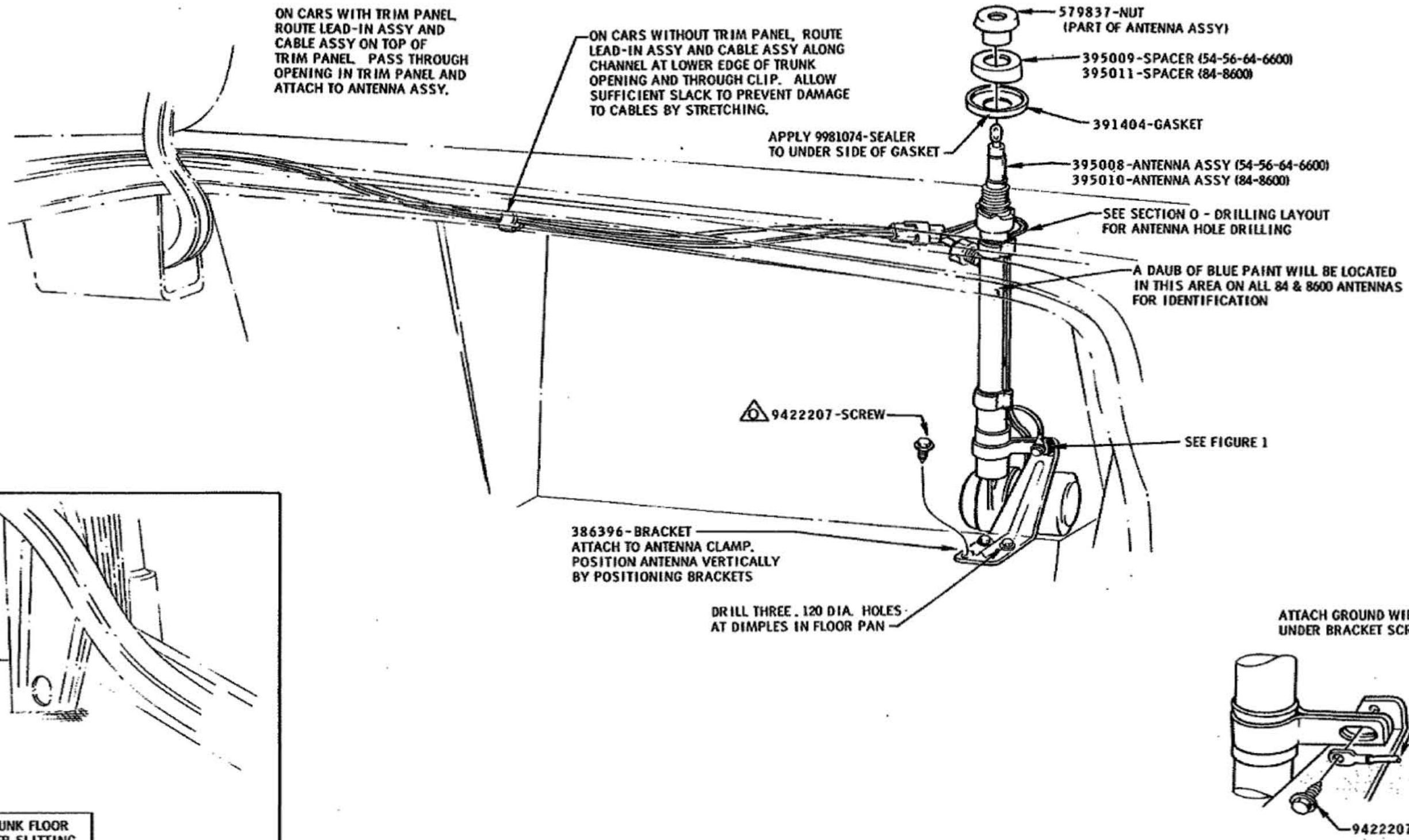


FIGURE 1

ANTENNA AND REAR SPEAKER CONNECTION TO RADIO

ANTENNA AND REAR SPEAKER WIRE ROUTING BEHIND INSTRUMENT PANEL

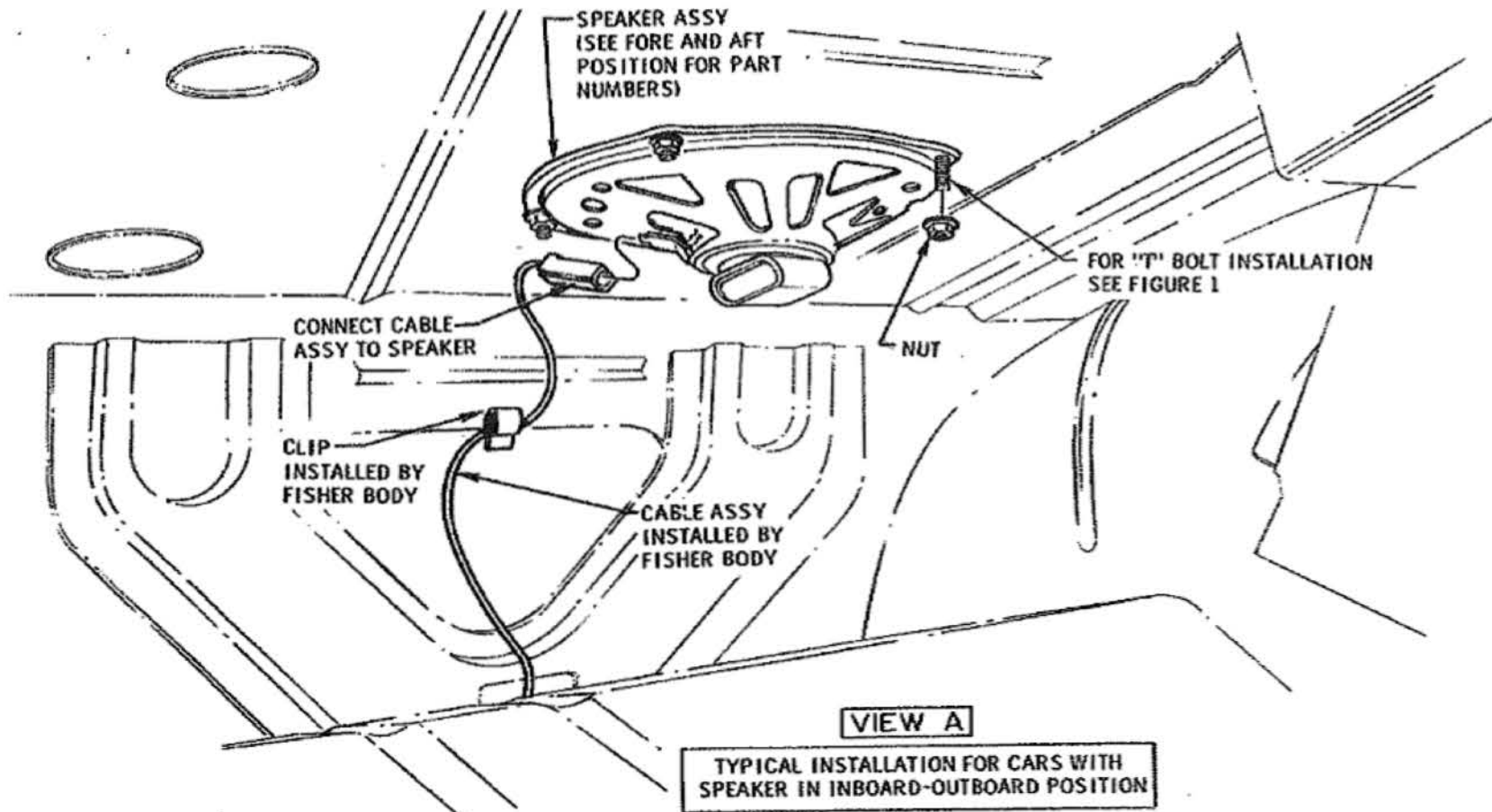
										TITLE							
										MANUAL ANTENNA CABLE							
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE			
										NOV. 16, 1966	1968	INFORMATION MANUAL	1-4	321			
										DR. BY							
										CHECKED							
										APPR.							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	SERIES	PART NO.
																B-C	398163



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

FIGURE 1

												TITLE ELECTRIC ANTENNA					
												DATE FEB 9 1967	FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. 1-4	PAGE 325	
												DR. BY B. PARKER	CHECKED <i>Atlas</i>	REF. 35075	SERIES B-C	PART NO. 398163	
												9-28-67 A	TORQUE NOTE ADDED	PL. DT			
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	



VIEW A

TYPICAL INSTALLATION FOR CARS WITH SPEAKER IN INBOARD-OUTBOARD POSITION

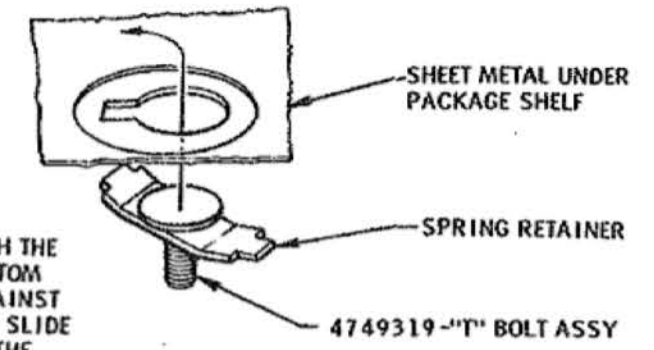
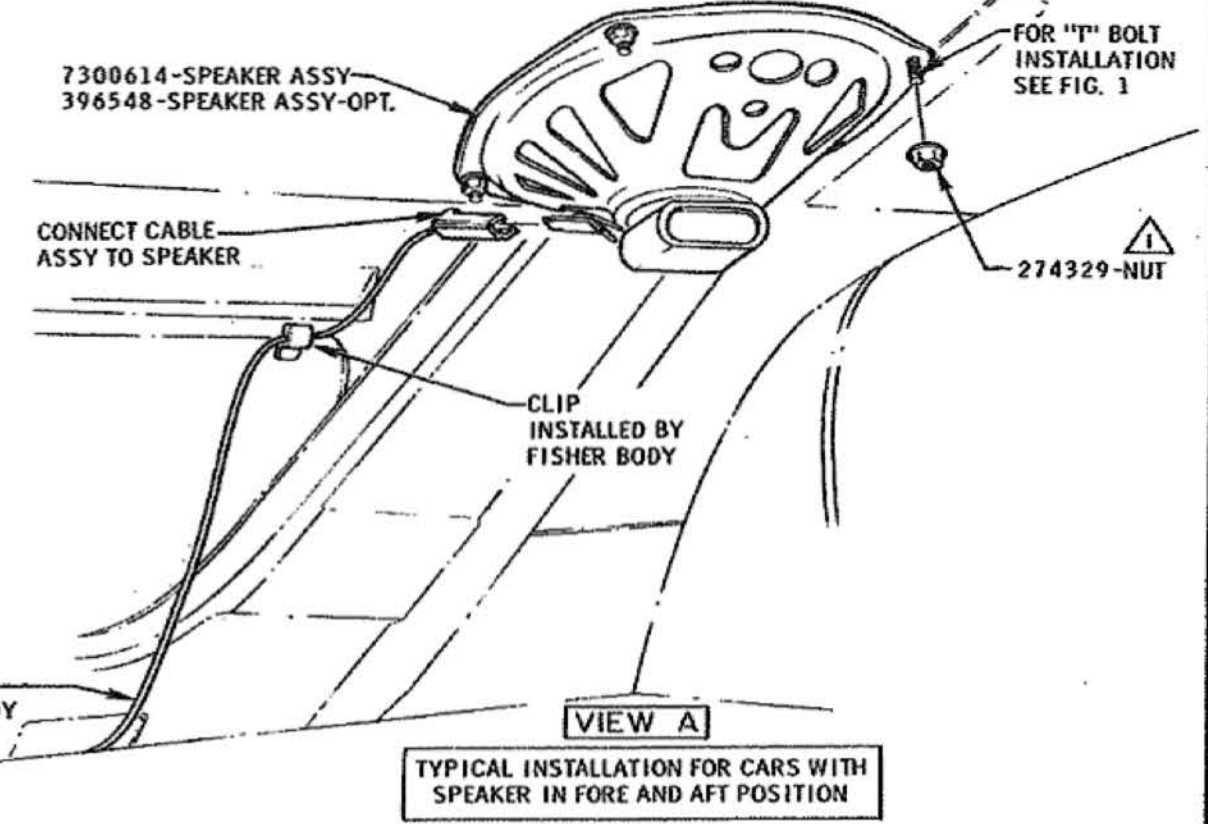
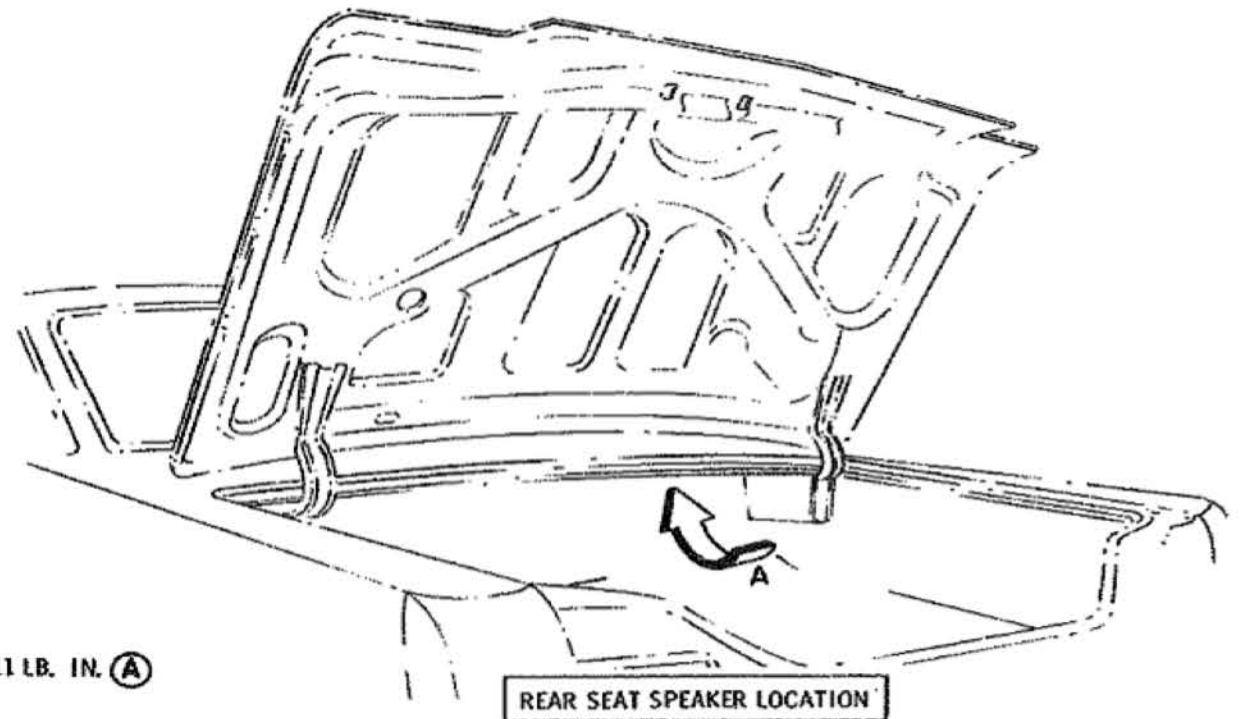


FIGURE 1

"T" BOLT INSTALLATION

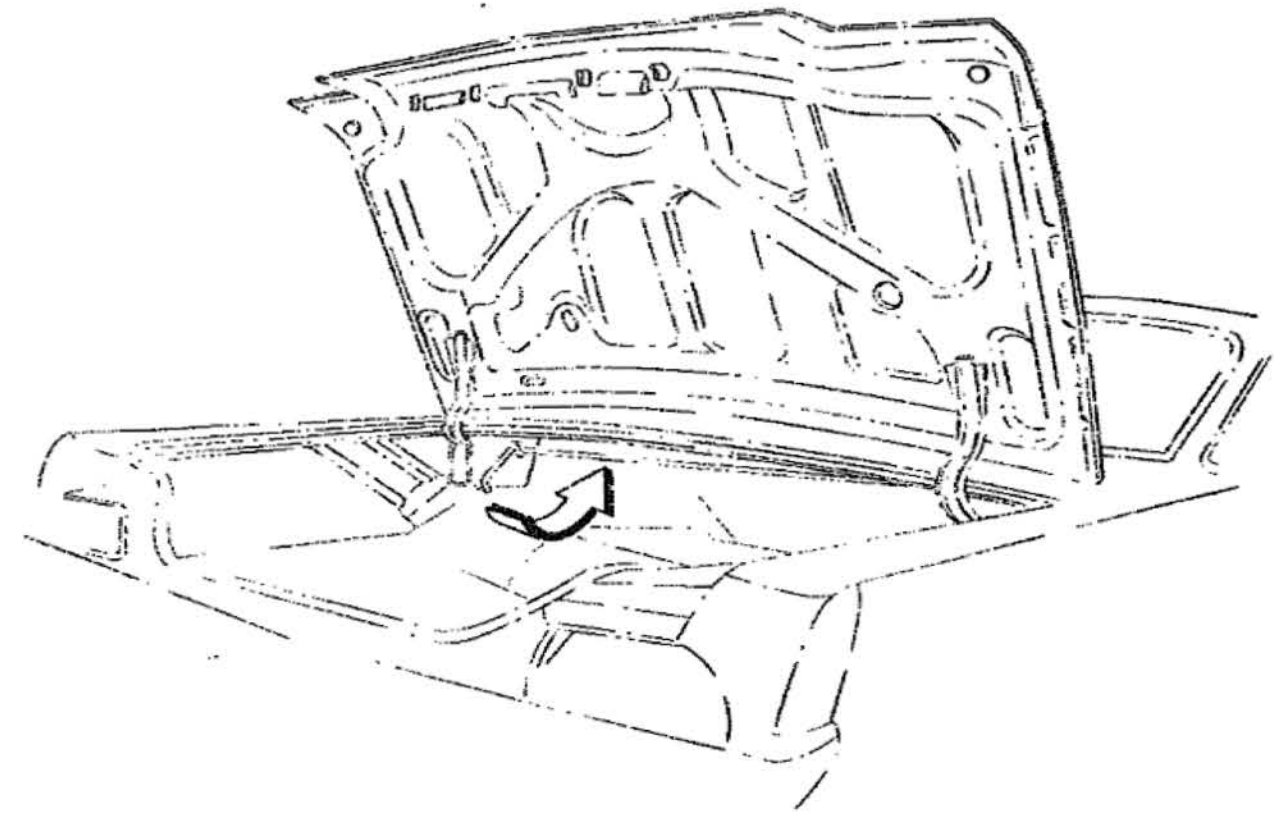
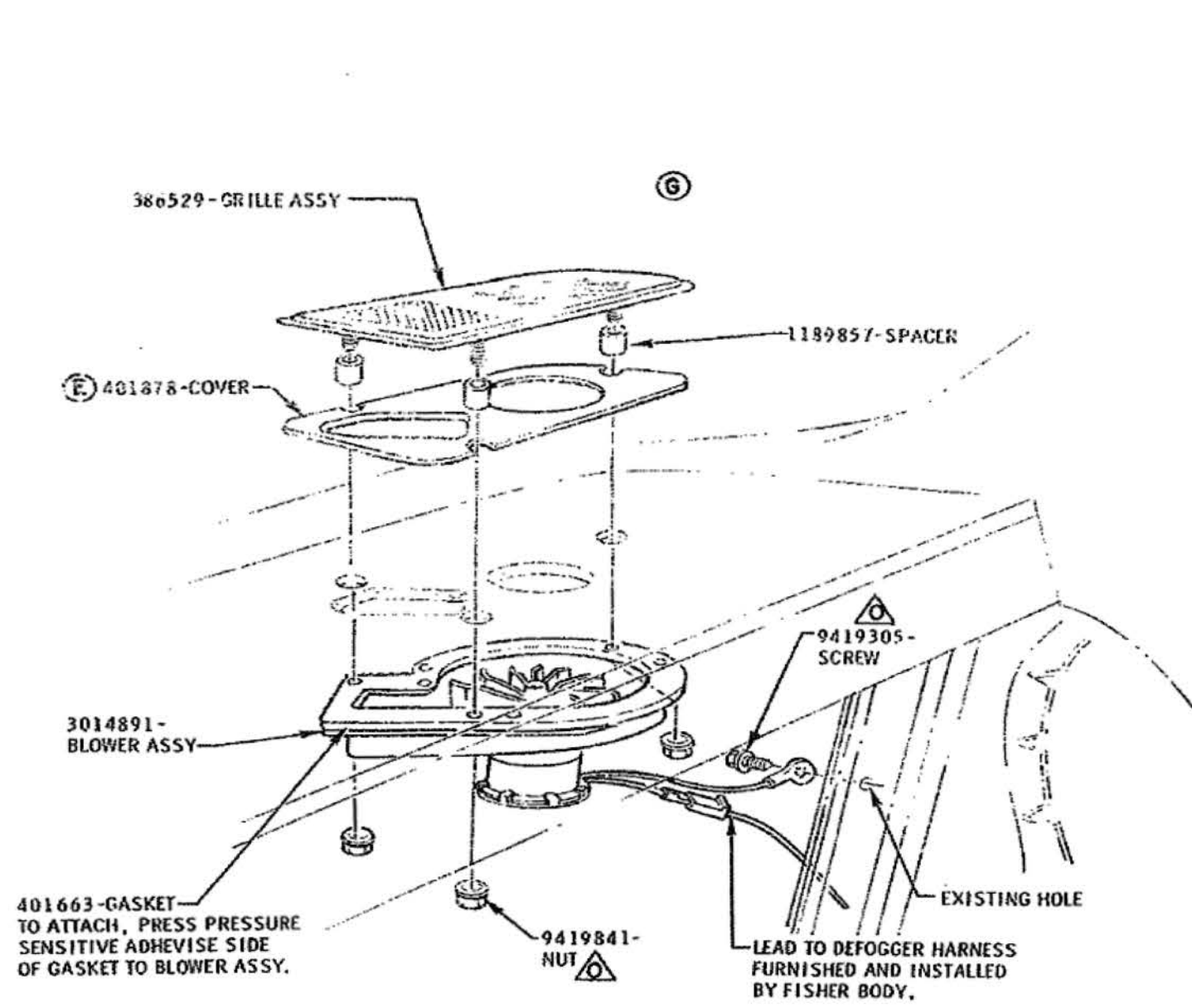


VIEW A

TYPICAL INSTALLATION FOR CARS WITH SPEAKER IN FORE AND AFT POSITION

REVISIONS										TITLE					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
					10-25-67	A	TORQUE ADDED	PL/DY							

REAR SEAT SPEAKER (EXCEPT CONVERTIBLE)				
DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
DEC. 21, 1966	1968		1-4	330
DR. BY B. PARKER				
CHECKED Titus				
REF. 35480	SERIES B-C	PART NO. 398163		



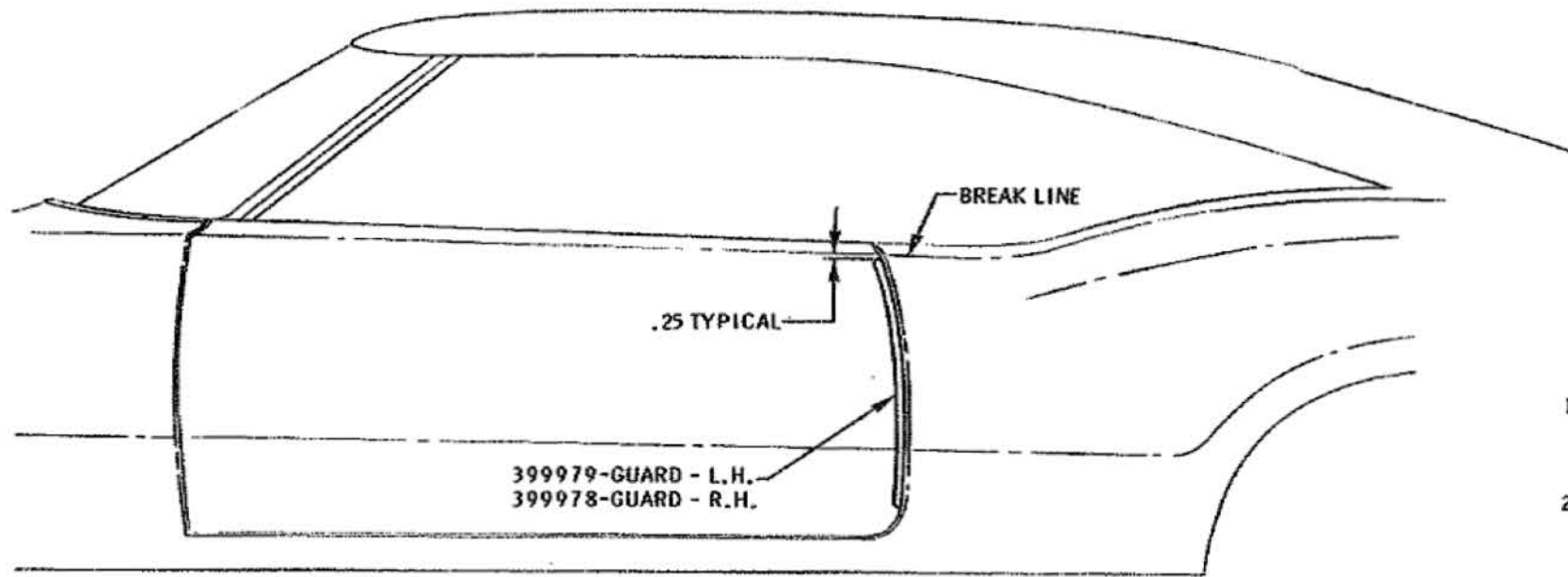
DEFOGGER LOCATION

DEFOGGER INSTALLATION TO PACKAGE SHELF

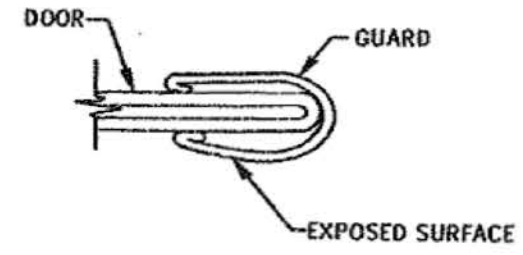
NOTE:
BEFORE ASSEMBLING BLOWER TO SHELF MAKE SURE BLOWER MOUNTING AREA IS FREE OF OBSTRUCTION. FLATTEN OR TRIM ANY PROTRUDING FLANGES.

(F) (A) MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					8-31-67		WAS 1289772-COVER									REAR WINDOW DEFOGGER				
					7-27-67	D	401663-GASKET ADDED									DATE NOV. 1, 1966				
					5-26-67	C	WAS 9421485 SCREW									DR. BY B. PARKER	1968		1-4	345
					2-15-68	G	392943-SPACER REMOVED									CHECKED				
					9-27-67	F	TORQUE NOTE ADDED									APPR.	REF. 35C 50			
																		SERIES B-C	PART NO. 398163	



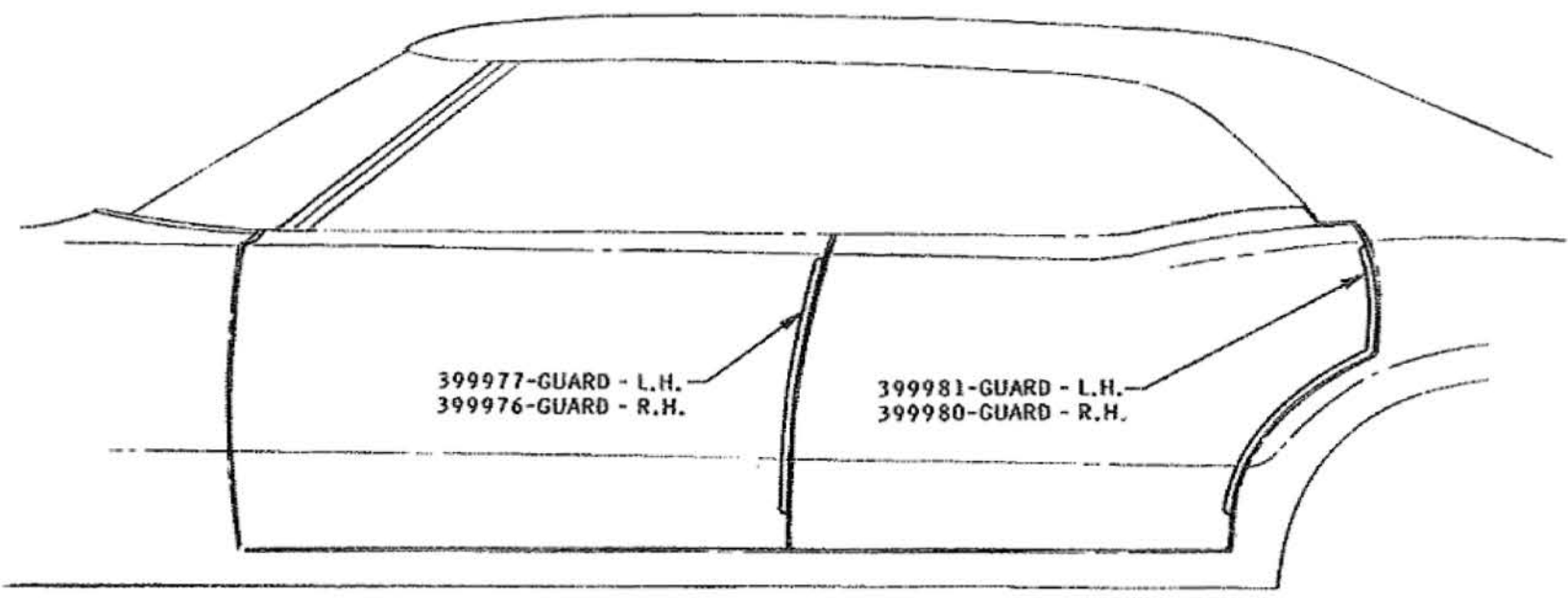
DOOR EDGE GUARD
ALL 2 DOOR MODELS



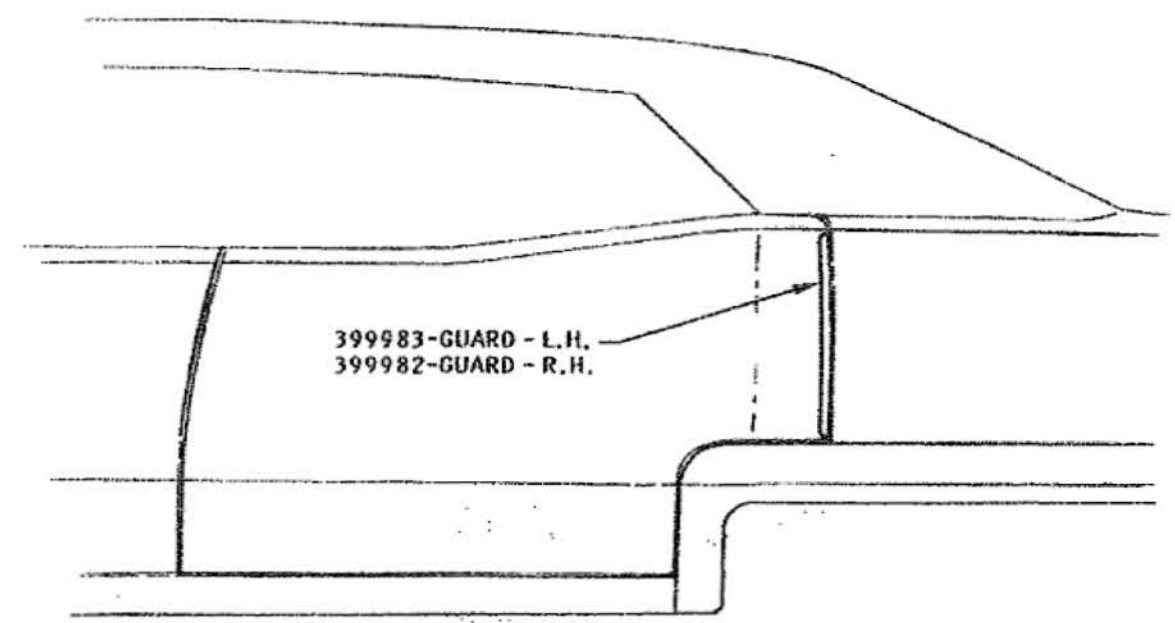
TYPICAL SECTION
THRU DOOR GUARD

GENERAL INSTRUCTIONS

1. START UPPER END OF GUARDS 1/4" BELOW DOOR BREAK LINE.
2. LOCAL CRIMPING IS PERMISSABLE (IN 2 PLACES ONLY) TO SECURE TIGHT FIT.

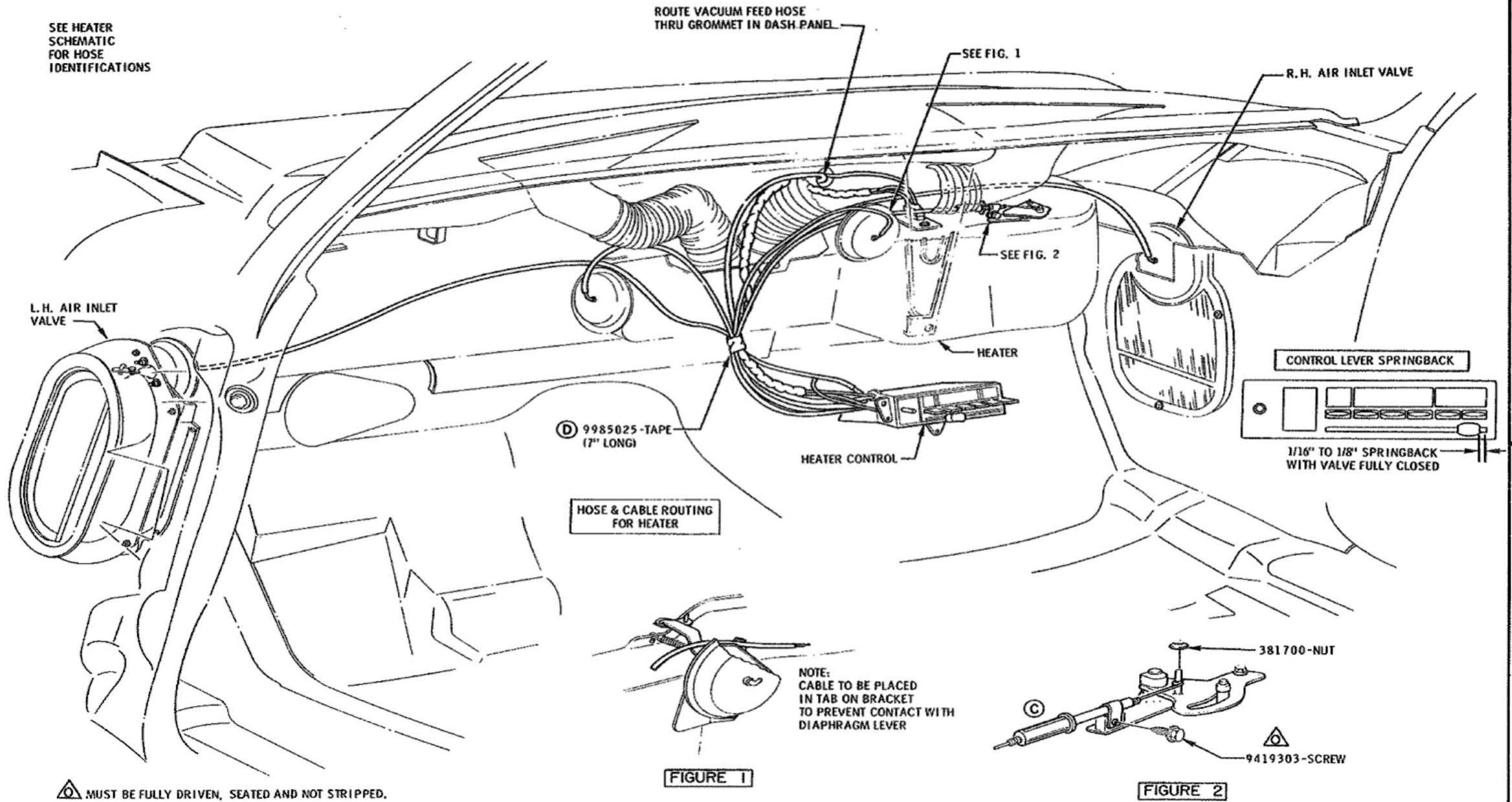


DOOR EDGE GUARD
ALL 4 DOOR MODELS
(EXC. 84-8600 REAR DOOR)



REAR DOOR GUARD
(84-8600 ONLY)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																DOOR EDGE GUARDS	MAR. 10, 1967	1968		1-4	410
																		REF. 35 B93	SERIES B-C	PART NO. 398163	



SEE HEATER SCHEMATIC FOR HOSE IDENTIFICATIONS

ROUTE VACUUM FEED HOSE THRU GROMMET IN DASH PANEL

SEE FIG. 1

R.H. AIR INLET VALVE

SEE FIG. 2

HEATER

CONTROL LEVER SPRINGBACK

1/16" TO 1/8" SPRINGBACK WITH VALVE FULLY CLOSED

L.H. AIR INLET VALVE

① 9985025-TAPE (7" LONG)

HEATER CONTROL

HOSE & CABLE ROUTING FOR HEATER

NOTE: CABLE TO BE PLACED IN TAB ON BRACKET TO PREVENT CONTACT WITH DIAPHRAGM LEVER

381700-NUT

9419303-SCREW

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

FIGURE 1

FIGURE 2

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
					1-5-68	D	PART NUMBER ADDED									1A2C VACUUM HOSE & CABLE ROUTING	1968		1-5	116
					8-15-67	C	CABLE REVISED TO DETAIL									DATE MAR. 1, 1967				
					6-30-67	B	T.L.S. & NOTE ADDED									DR. BY B. PARKER				
					4-8-67	A	WAS 9419303 SCREW									CHECKED JTB				
																APPR.	REF.	SERIES B-C	PART NO. 398163	

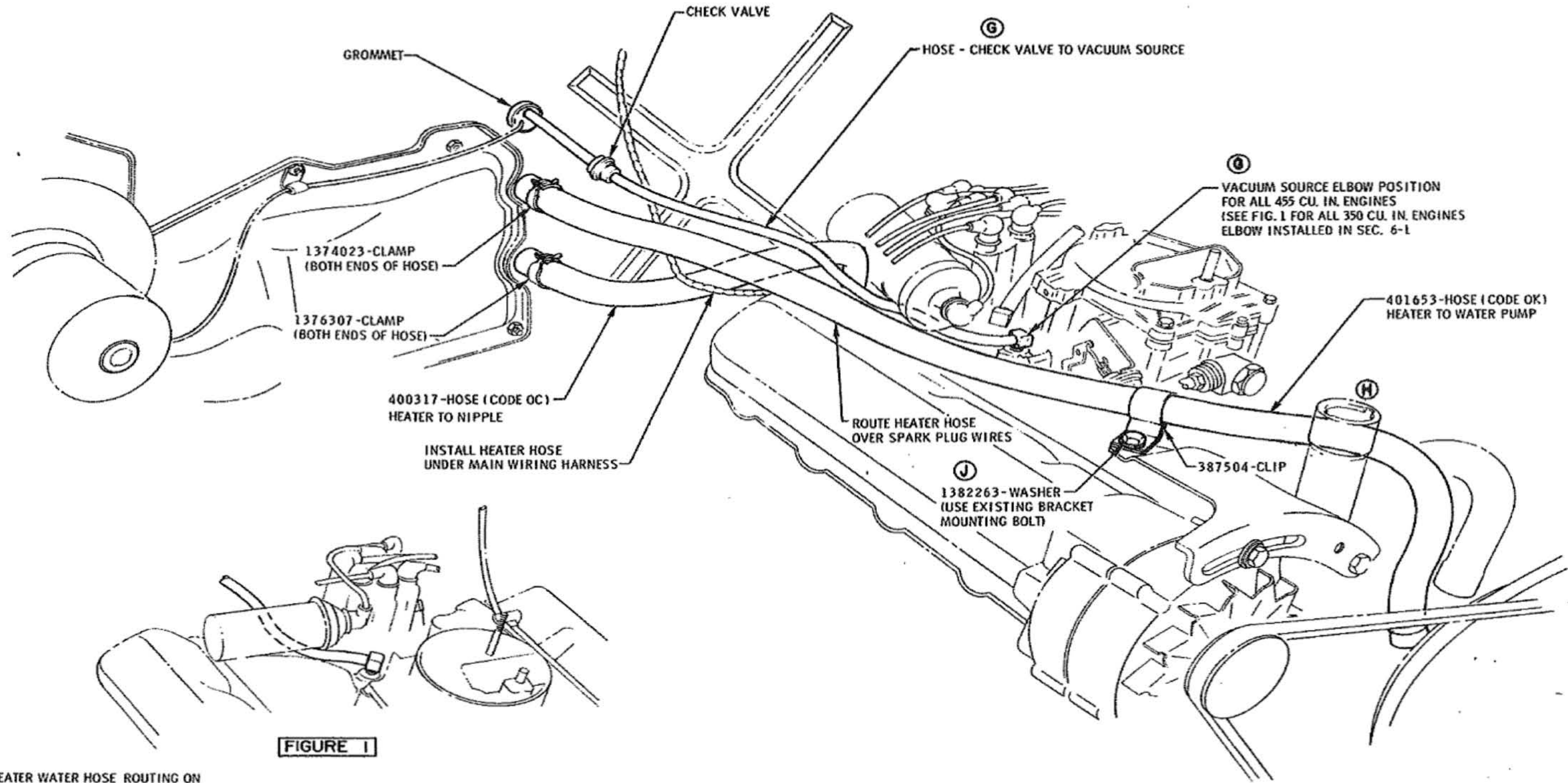


FIGURE 1

FOR HEATER WATER HOSE ROUTING ON CARS WITH AIR CONDITIONING, SEE SECTION 1-5 PAGE 215

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-25-67	E	WAS 393162-HOSE														1A2C HEATER WATER & VACUUM HOSES	1968		1-5	117
					3-18-68	J	WAS 9419234 WASHER	J13	DT	5-30-67	D	CLIP AND WASHER ADD.									DATE FEB. 3, 1967	1968			
					11-16-67	H	BACKGROUND REVISED	PL	DT	5-16-67	C	NOTE REVISED									DR. BY JOSEPH Y. GALL				
					10-9-67	G	NOTE REVISED	TH	DT	4-29-67	R	WAS 399469-CLAMP									CHECKED Jiles				
					10-9-67	F	VIEW ADDED	DT	DT	4-29-67	A	WAS 399470-CLAMP									APPR.	REF. 1A2C	SERIES	PART NO.	
																							B-C	398163	

FASTEN SPEEDOMETER CABLE TO REAR OF INSTRUMENT PANEL CLUSTER 



FORWARD 

FIGURE 1

CABLE ROUTING FROM FLOOR PAN TO INSTRUMENT PANEL CLUSTER

 9419727-SCREW

SEE FIGURE 1 FOR ROUTING OF SPEEDOMETER CABLE TO REAR OF INSTRUMENT PANEL

6476826-CABLE ASSY
6477068-CABLE ASSY-OPT. FOR CRUISE CONTROL SPEEDO CABLES SEE SECT. 1-5, PAGE 351

GROMMET (SEE SECT. 1-2, PAGE 113)

ROUTING WITH 35K30

401164-CLIP (WITH 6476826 CABLE) - EXC. 35K30
403347-CLIP (WITH 6477068 CABLE)

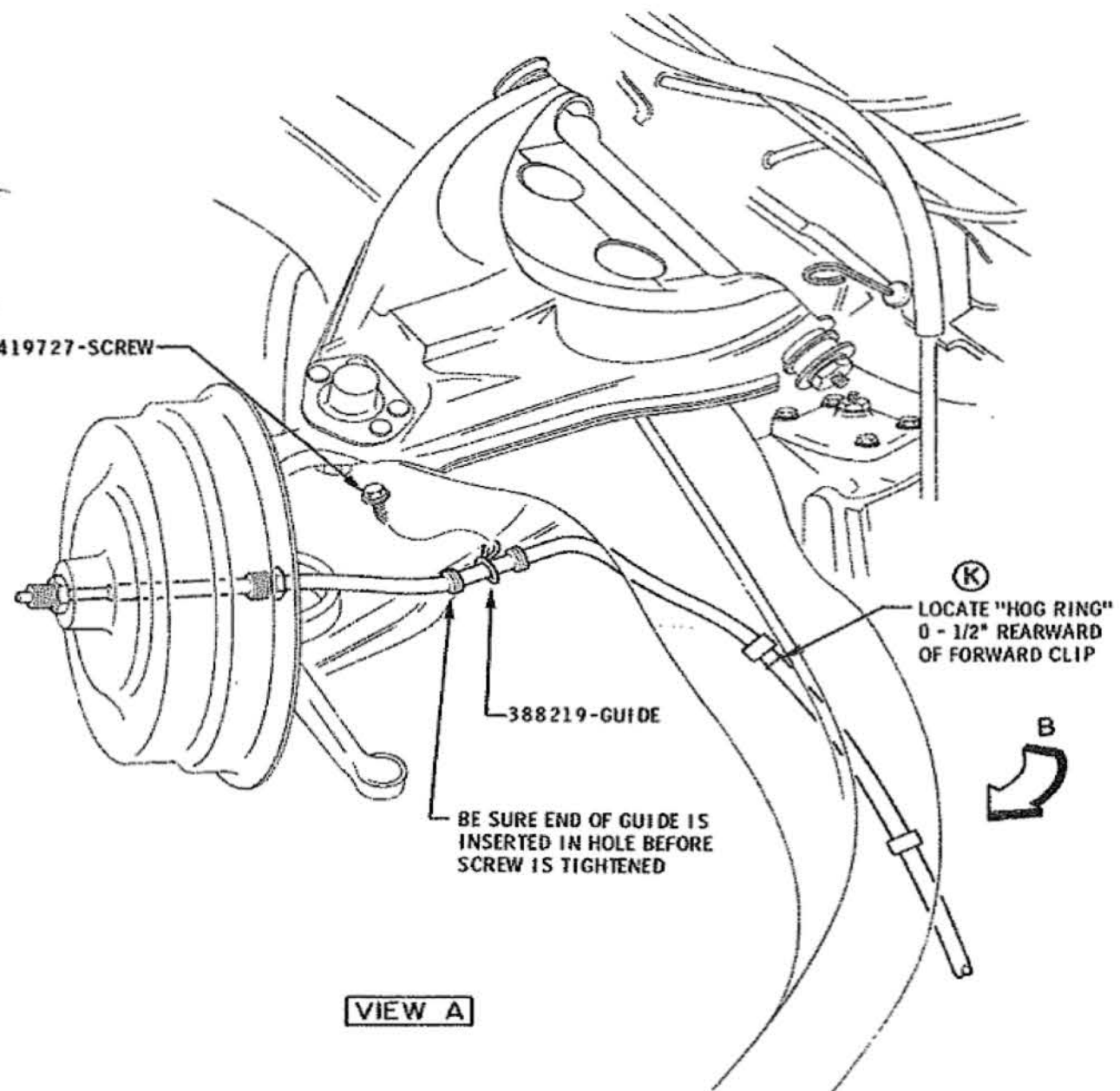
401164-CLIP (WITH 6476826 CABLE & 35K30 CABLE)
403347-CLIP (WITH 6477068 CABLE ONLY)

CABLE ROUTING IN ENGINE COMPARTMENT AND THRU DASH


FRAME

VIEW B


CLIP




VIEW A

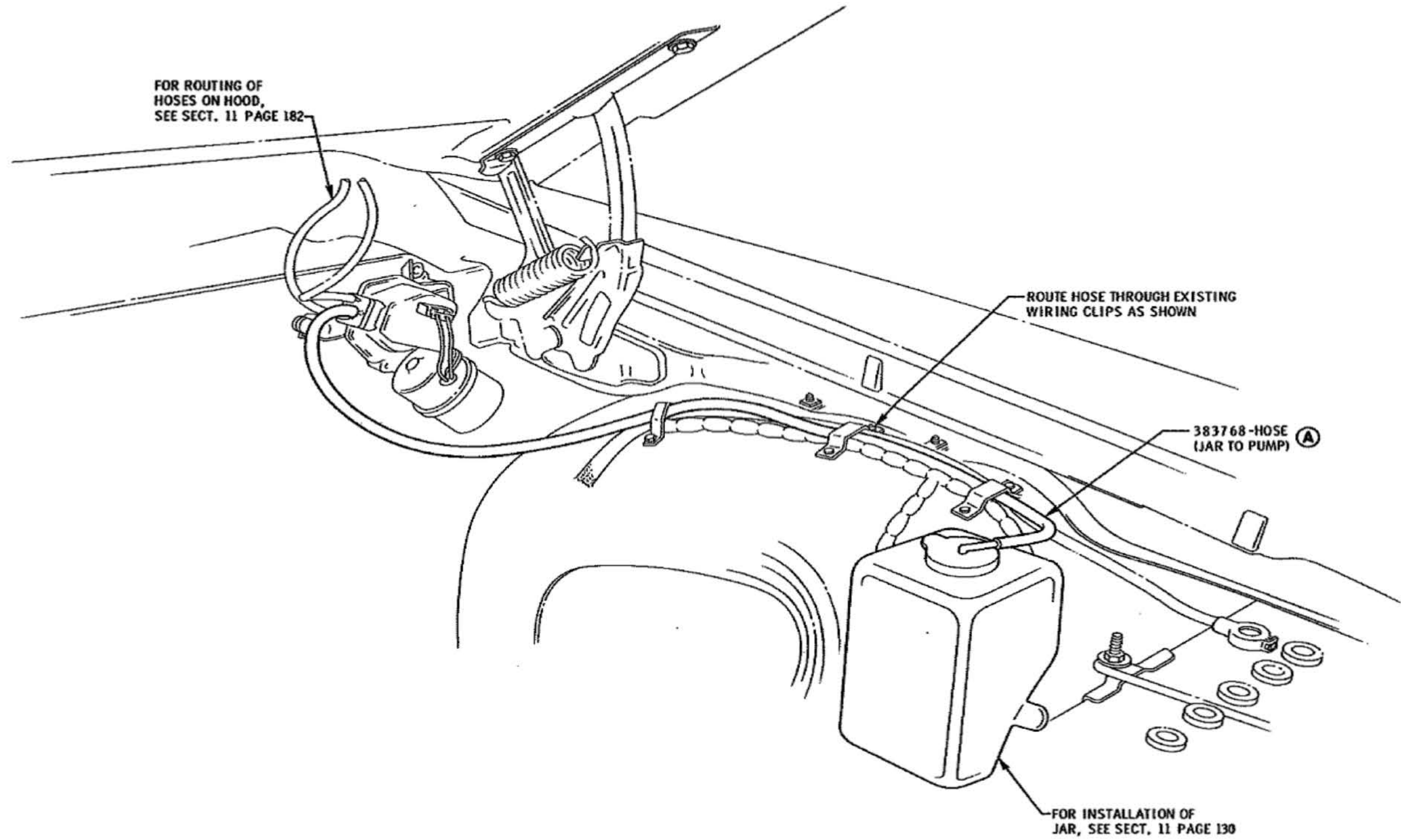
 LOCATE "HOG RING" 0 - 1/2" REARWARD OF FORWARD CLIP

388219-GUIDE
BE SURE END OF GUIDE IS INSERTED IN HOLE BEFORE SCREW IS TIGHTENED

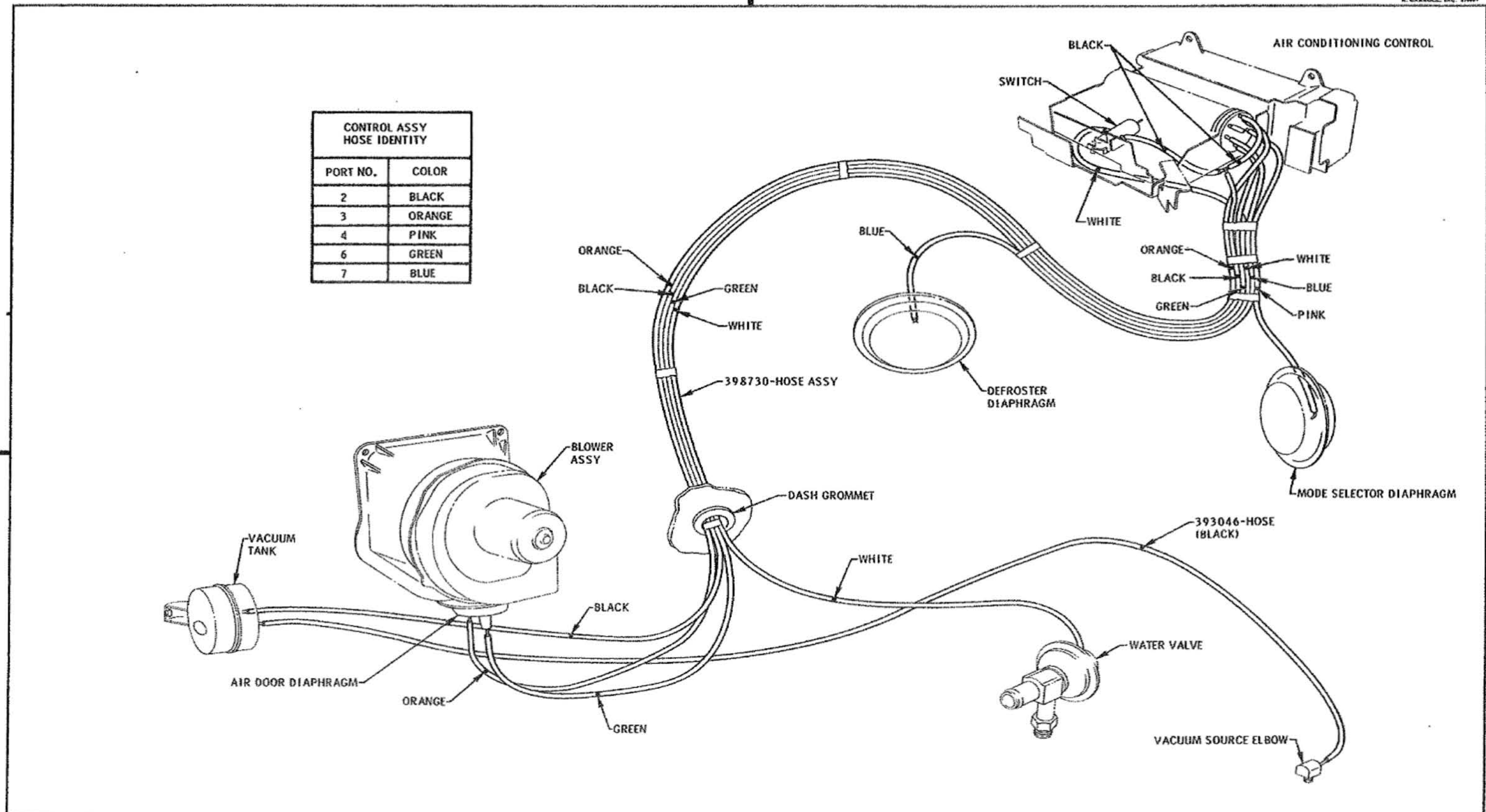
 5-10 LB. IN.

 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
3-4-66	K	NOTE REVISED	BP	DT	6-21-67	E	TORQUE NOTE ADDED	BP	DT	MAR. 2, 1967						SPEEDOMETER CABLE ROUTING	1968		1-5	119
2-15-68	J ₂	403347-CLIP-OPT. ADDED	BP	DT	6-2-67	D	FIGURE 1 ADDED	BP	DT							DR. BY B. PARKER				
10-5-67	H	6477068-CABLE OPT ADDED	BP	DT	6-2-67	C	VIEW REVISED	BP	DT							CHECKED J. J. J.				
9-29-67	G	NOTE REVISED	BP	DT	4-24-67	B	REVISED & REDRAWN	BP	DT							APPR.				
7-24-67	F	NOTE ADDED	BP	DT	3-21-67	A	RING RELOCATED	BP	DT								REF. 125	SERIES B-C	PART NO. 398163	




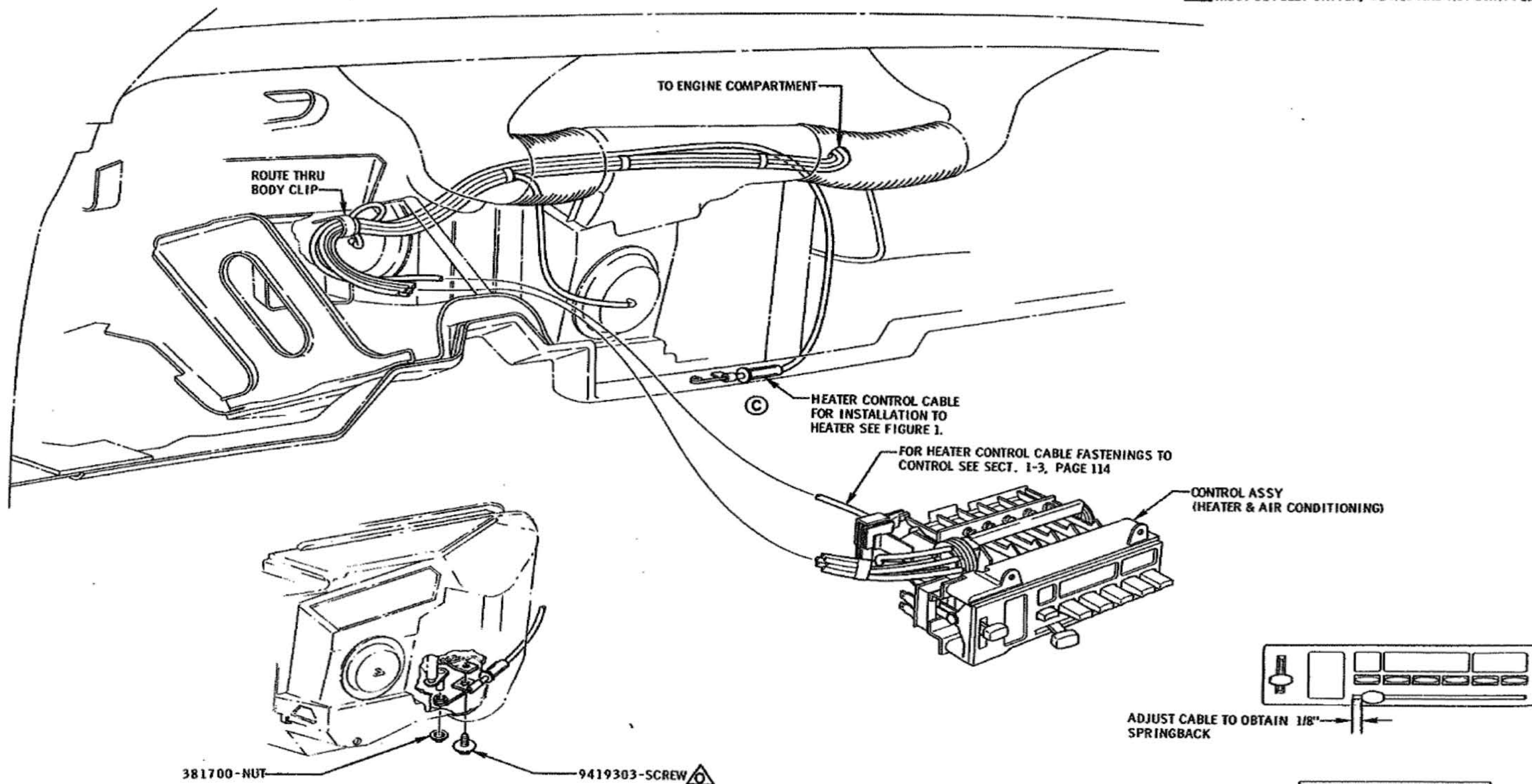
										TITLE		WINDSHIELD WASHER HOSE ROUTING							
										DATE	APR. 27, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	1-5	PAGE	120	
										DR. BY	BEAUDDIN	CHECKED	<i>[Signature]</i>	REF.	1A2D	SERIES	B-C	PART NO.	398163
										5-26-67	A	WAS 504B27	HOSE	DR. CK.	27				
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	



CONTROL ASSY HOSE IDENTITY	
PORT NO.	COLOR
2	BLACK
3	ORANGE
4	PINK
6	GREEN
7	BLUE

												TITLE			
												35C60 - VACUUM HOSE DIAGRAM			
						DATE		FEB. 9, 1967		FIRST USED		1968			
						DR. BY		JOSEPH V. GALL		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION			
						CHECKED		<i>J. V. G.</i>		REF.		1-5			
						APPR.				SERIES		PAGE			
						APPR.				B-C		212			
						PART NO.				398163					
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM		

 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.



381700-NUT


9419303-SCREW 

FIGURE 1
CONTROL CABLE TO HEATER

FOR HOSE ASSY PART NUMBERS SEE SEC. 1-5 PAGE 212.

CONTROL LEVER SPRINGBACK

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
																					35C60 VACUUM HOSE & CABLE ROUTING	1968		1-5	213	B-C	398163
					8-15-67	C	CABLE REVISED TO DETAIL	BR	DT												DATE MAR. 1, 1967						
					6-30-67	B	TORQUE NOTE ADDED	BR	DT												DR. BY B. PARKER						
					4-8-67	A	WAS 9420508 SCREW ASSY	RT	DT												CHECKED						

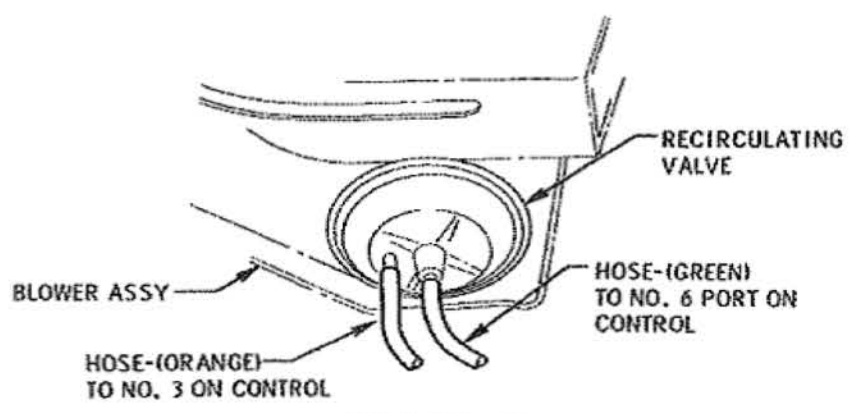
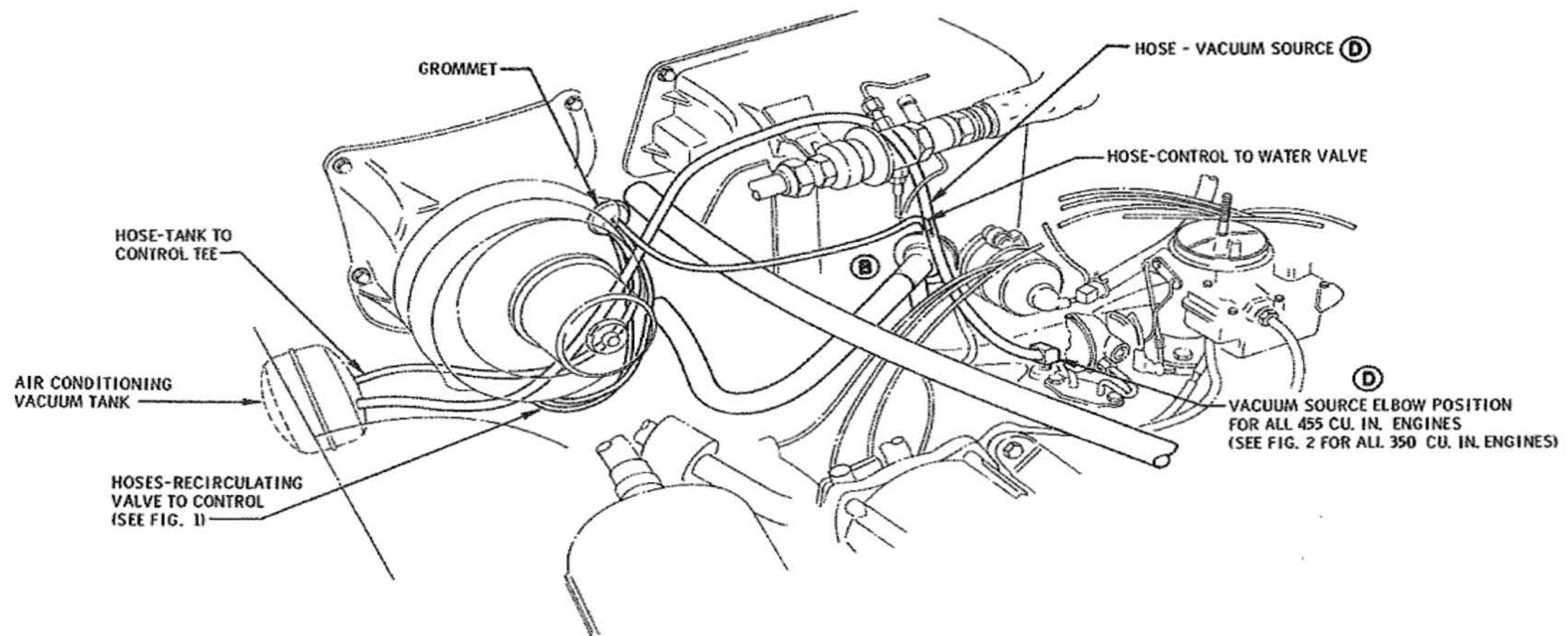


FIGURE 1

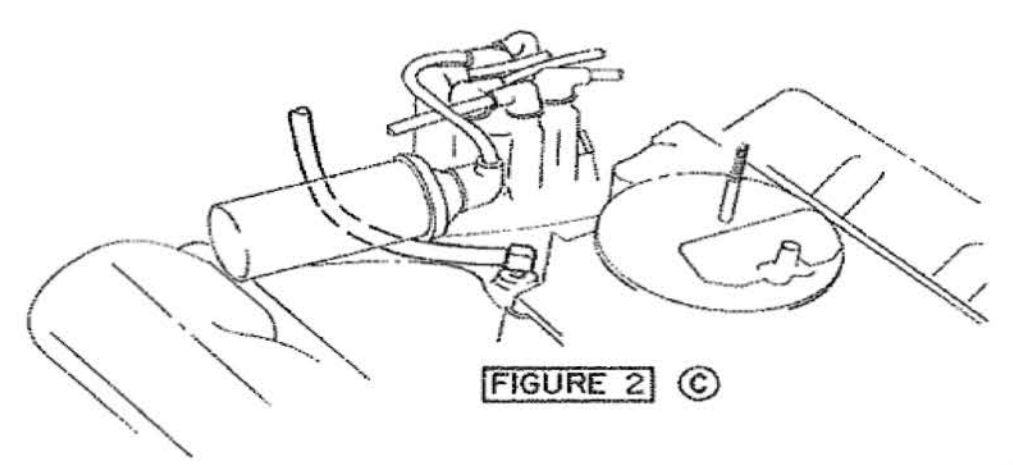


FIGURE 2 (C)

NOTE:
FOR VACUUM HOSE PART NO'S
SEE SECT. 1-5 PAGE 212

										TITLE 35C60 VACUUM HOSE ROUTING (ENGINE COMP.)												
					10-10-67	D	NOTE REVISED			DATE	FEB. 13, 1967		FIRST USED	1968		OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	1-5		PAGE	214	
					10-10-67	C	VIEW ADDED			DR. BY	JOSEPH V. GALL		REF.			SERIES	B-C		PART NO.	398163		
					7-21-67	B	BACKGROUND REVISED			CHECKED	<i>Plus</i>											
					6-29-67	A	BACKGROUND REV.			APPR.	<i>Plus</i>											
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.							

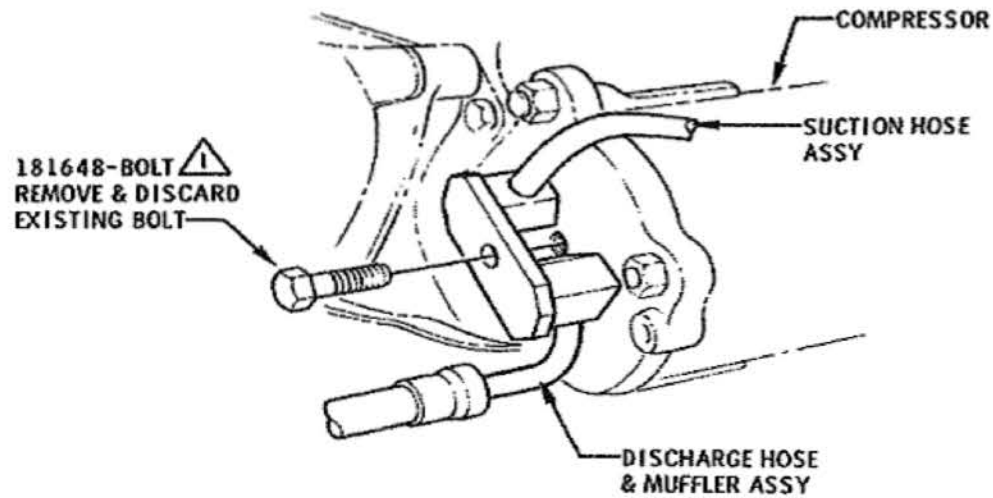
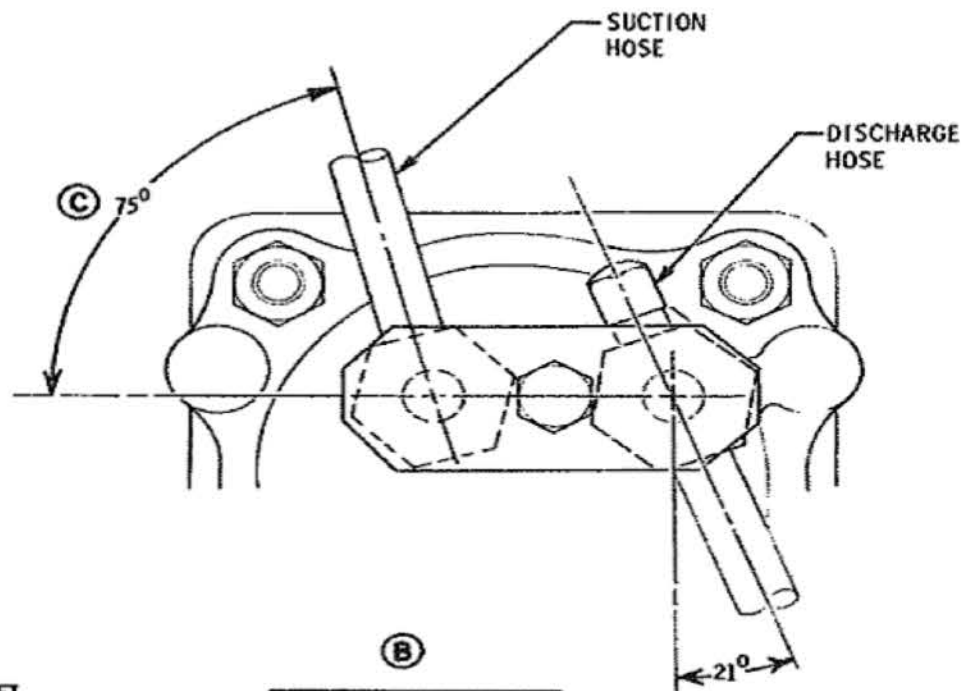
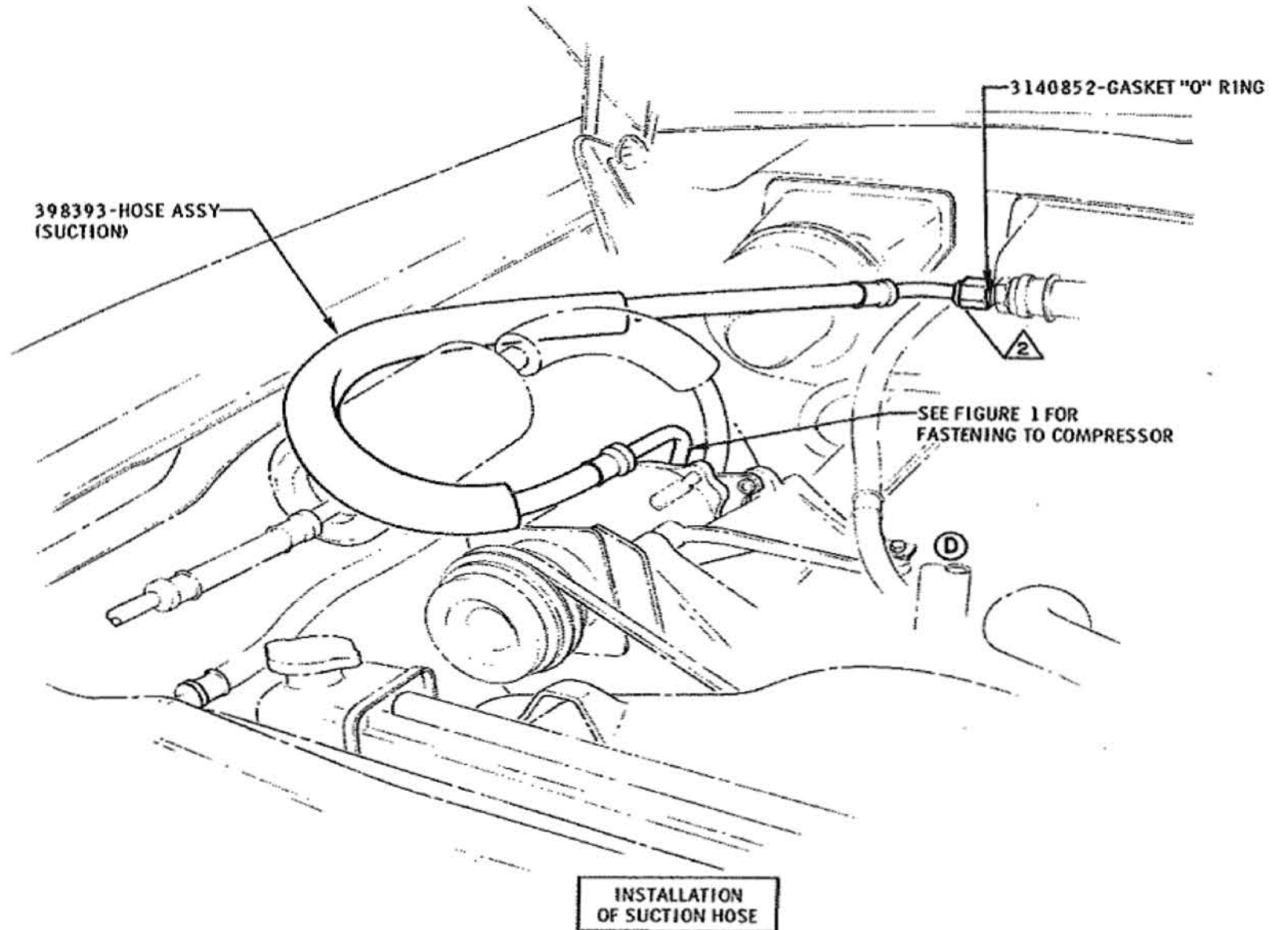


FIGURE 1



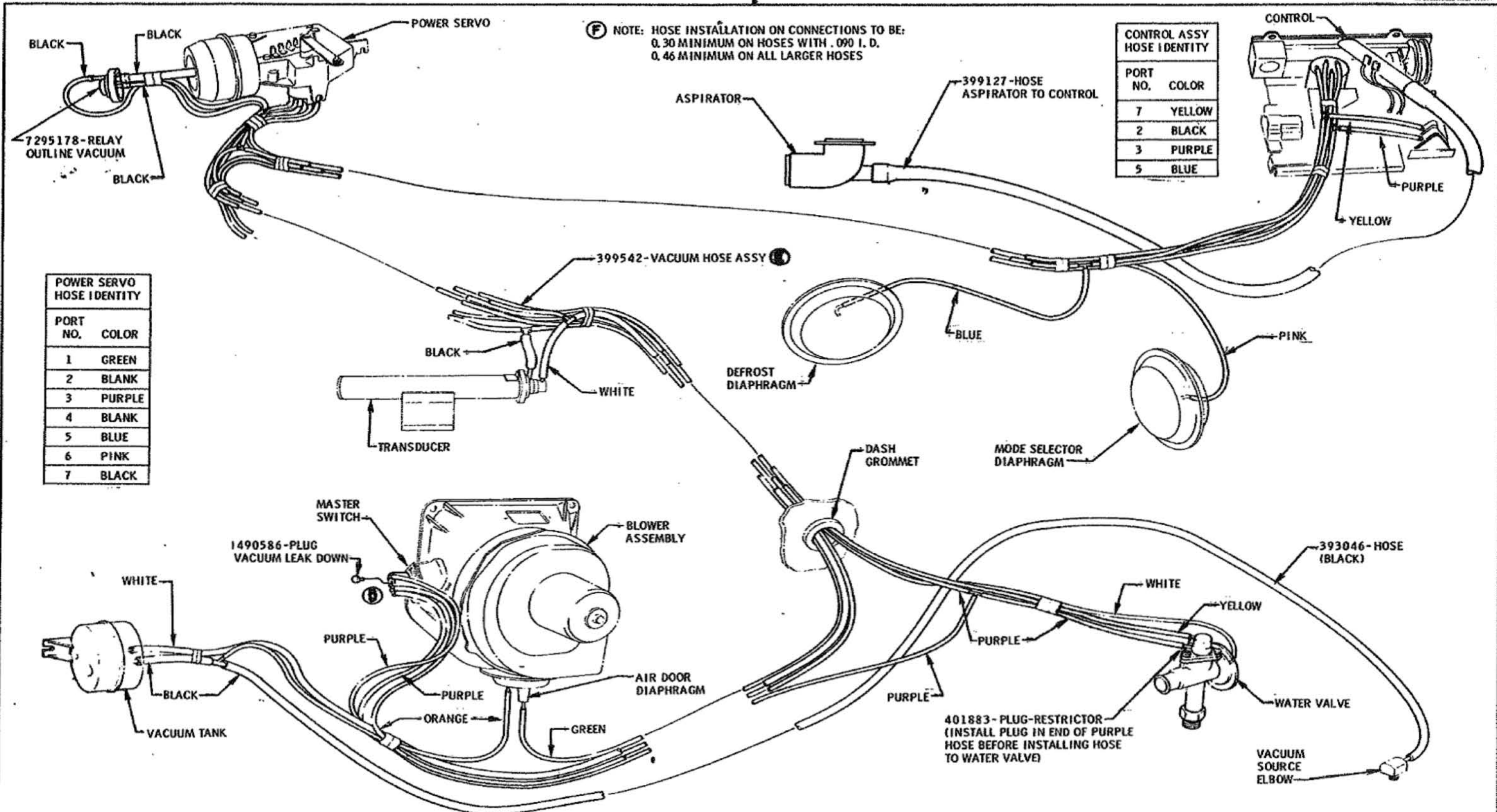
HOSE ALIGNMENT TO REAR OF COMPRESSOR

2 28 - 33 LB. FT.
1 20 - 25 LB. FT.



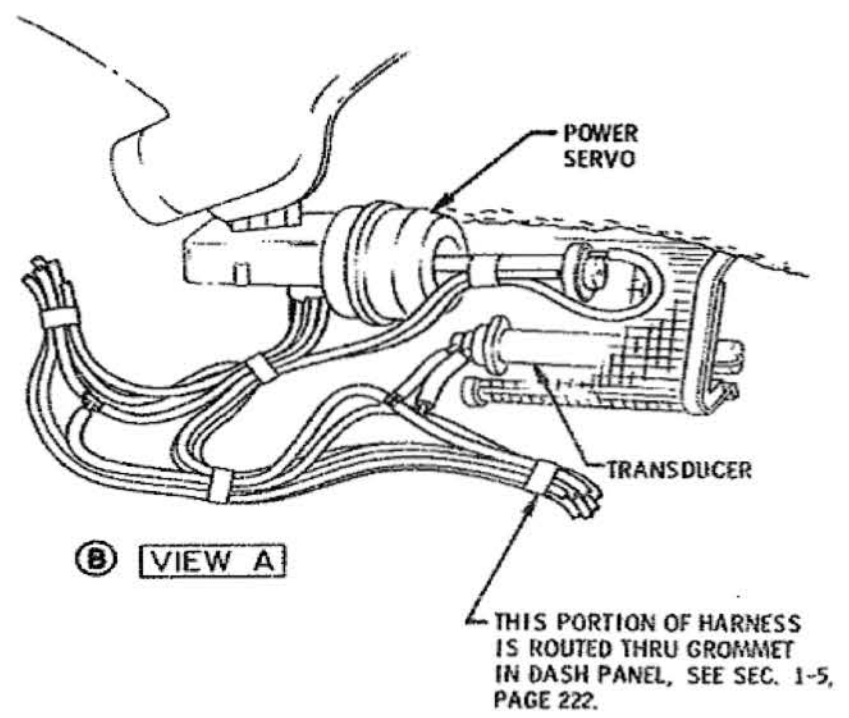
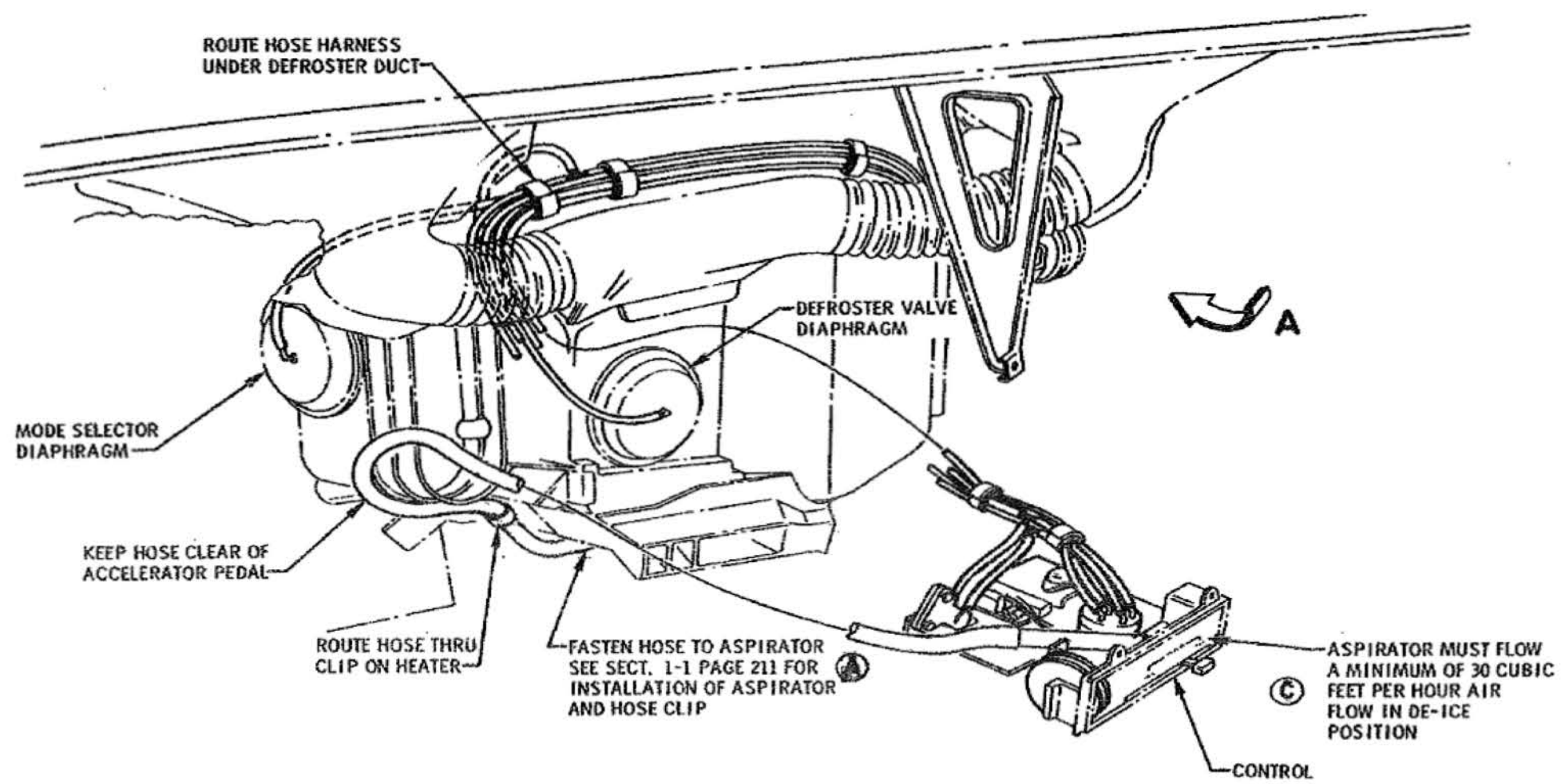
INSTALLATION OF SUCTION HOSE

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE		
					11-16-67	D	BACKGROUND REVISED			PL	MFB					A/C FREON HOSE ROUTING						
					8-31-67	C	WAS 90°				DT					DATE FEB. 15, 1967 DR. BY JOSEPH V. GALL						
					7-25-67	B	VIEW ADDED				DT					CHECKED J. J. J.	1968		1-5	217		
					6-30-67	A	TORQUES ADDED				DT					APPR.						
																	REF.	SERIES	PART NO.			
																		B-C	398163			



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					10-4-67	E	HARNESSES REV'D TO DETAIL									35C61 PICTORIAL VACUUM HOSE DIAGRAM	1968		1-5	220
					9-15-67	D	HOSE CONNECTIONS REV.									DATE FEB. 15, 1967				
					B-31-67	C	WAS 14090586-PLUG									DR. BY JOSEPH V. GALL				
					B-10-67	B	HOSE ROUTING REVISED									CHECKED				
					4-16-68	F	NOTE ADDED									APPR.				
					5-18-67	A	399127-HOSE ADDED													
																	REF. 35C61			

SERIES B-C PART NO. 398163



ASPIRATOR MUST FLOW A MINIMUM OF 30 CUBIC FEET PER HOUR AIR FLOW IN DE-ICE POSITION

FOR COMPLETE HOSE ROUTING DIAGRAM, SEE SEC. 1-5, PAGE 220

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
																36C61 VACUUM HOSE ROUTING	1968		1-5	221	B-C	398163
					4-3-68	C	NOTE ADDED	PL	DT							DATE MAR. 1, 1967						
					10-4-67	B	VIEW "A" REVISED & REDRAWN	PL	DT							DR. BY B. PARKER						
					5-18-67	A	ASPIRATOR HOSE ROUTING ADD	PL	DT							CHECKED J. J. J.						

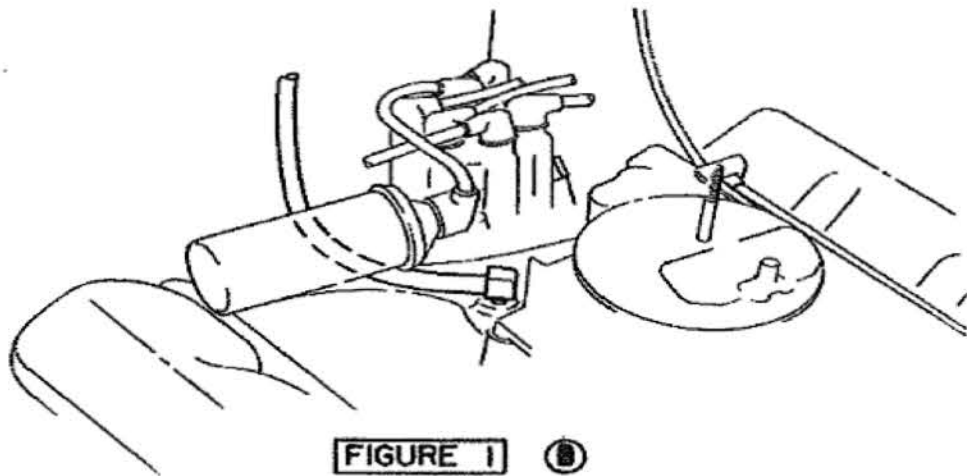
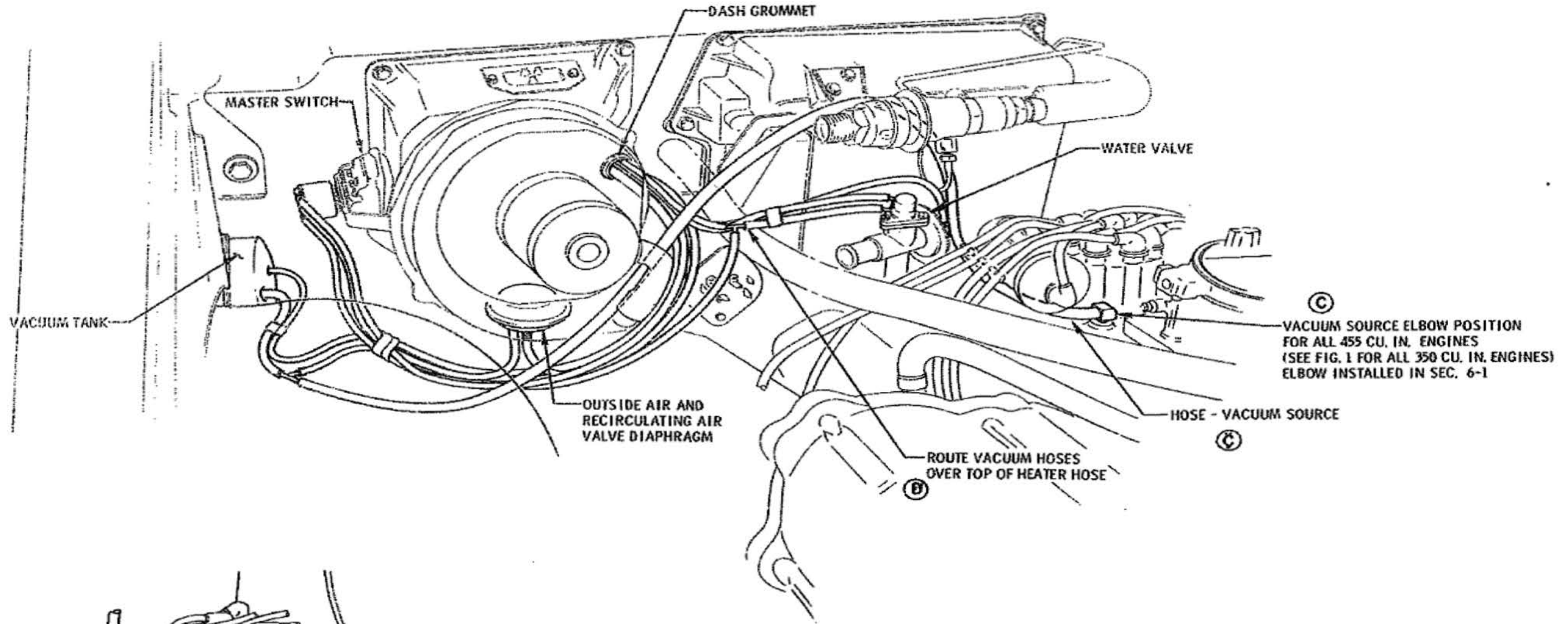
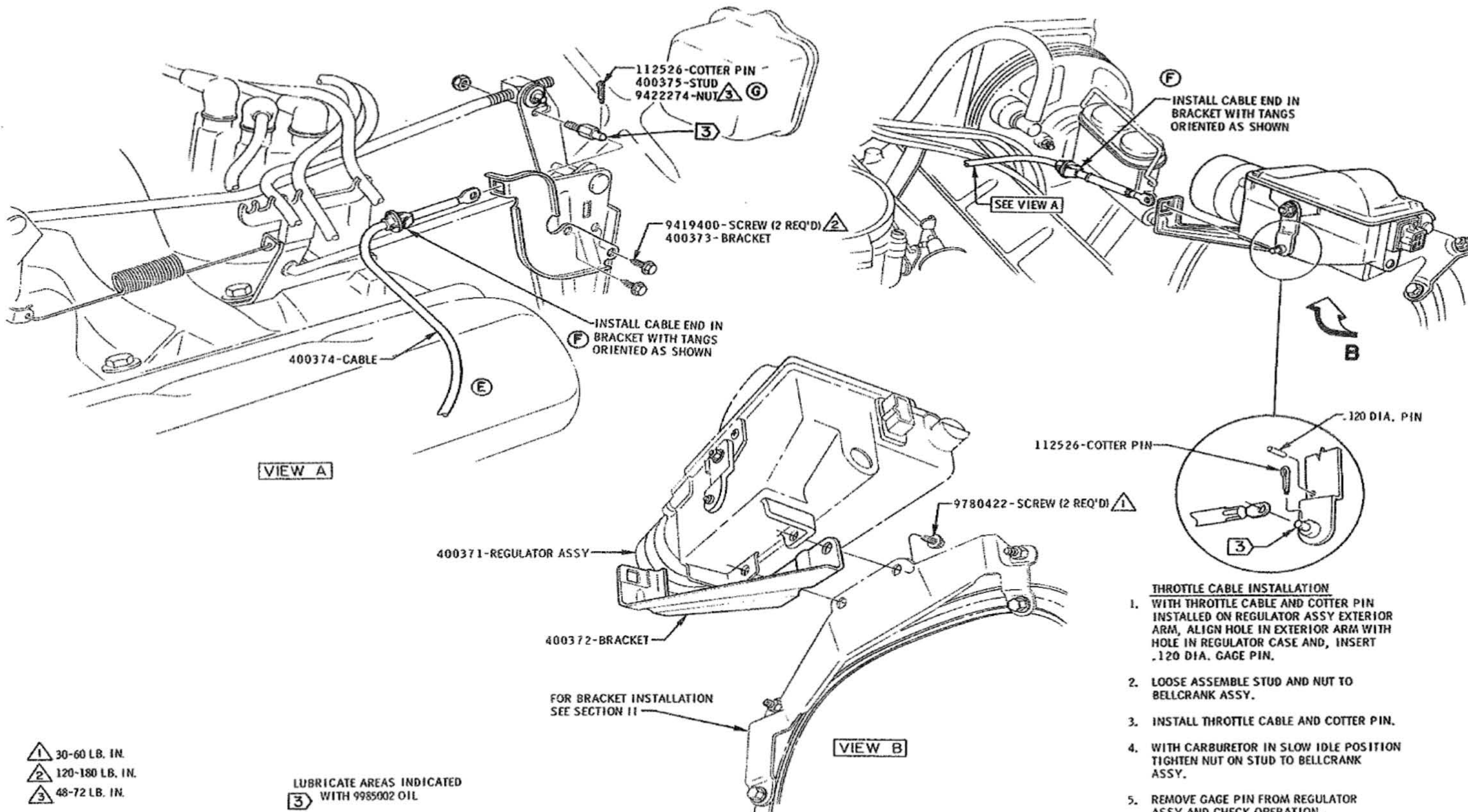


FIGURE 1 (B)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					2-8-68	D	NOTE ADDED									35C61 VACUUM HOSE (ENGINE COMPARTMENT)				
					10-10-67	C	NOTE REVISED									DATE FEB. 11, 1967	1968		1-5	222
					10-10-67	B	VIEW ADDED									DR. BY JOSEPH V. GALL				
					8-10-67	A	HOSE ROUTING REVISED									CHECKED <i>JV</i>				
																APPR.	REF. 35C61	SERIES B-C	PART NO. 398163	



- THROTTLE CABLE INSTALLATION**
1. WITH THROTTLE CABLE AND COTTER PIN INSTALLED ON REGULATOR ASSY EXTERIOR ARM, ALIGN HOLE IN EXTERIOR ARM WITH HOLE IN REGULATOR CASE AND, INSERT .120 DIA. GAGE PIN.
 2. LOOSE ASSEMBLE STUD AND NUT TO BELLCRANK ASSY.
 3. INSTALL THROTTLE CABLE AND COTTER PIN.
 4. WITH CARBURETOR IN SLOW IDLE POSITION TIGHTEN NUT ON STUD TO BELLCRANK ASSY.
 5. REMOVE GAGE PIN FROM REGULATOR ASSY AND CHECK OPERATION.

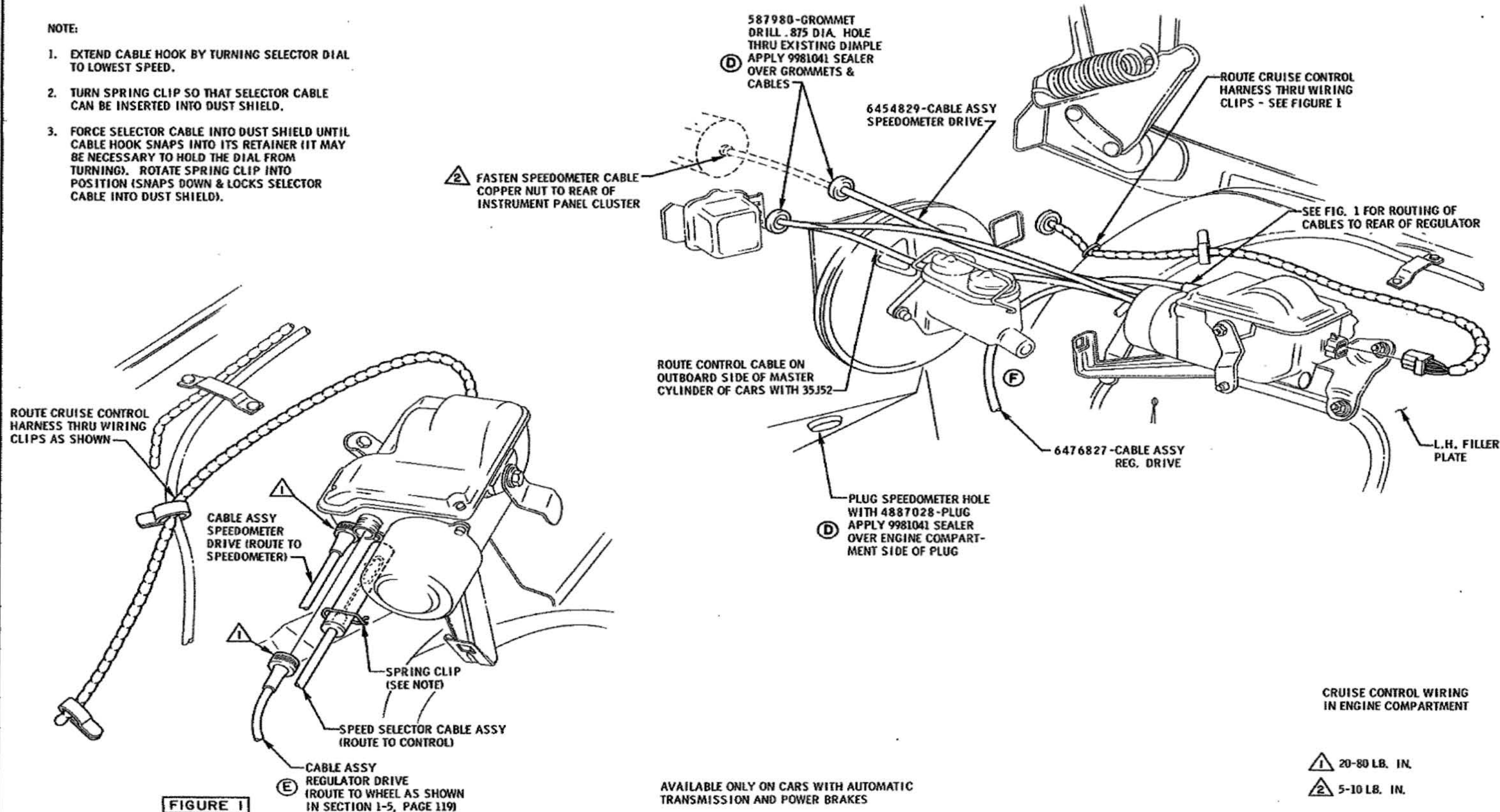
- 1 30-60 LB. IN.
- 2 120-180 LB. IN.
- 3 48-72 LB. IN.

LUBRICATE AREAS INDICATED
WITH 9985002 OIL

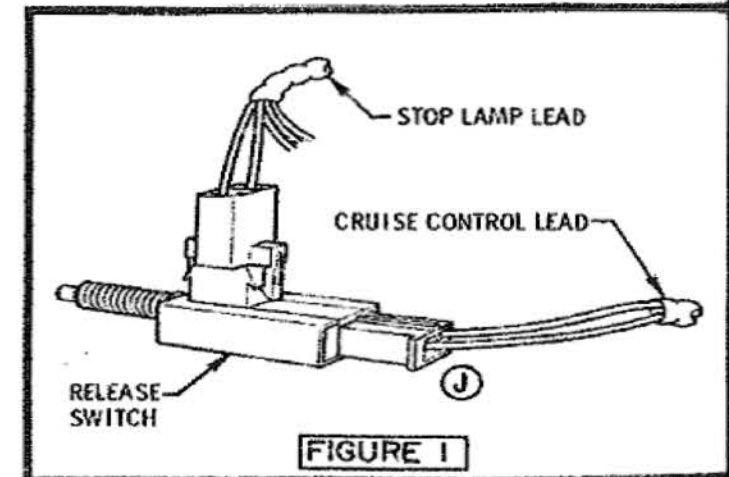
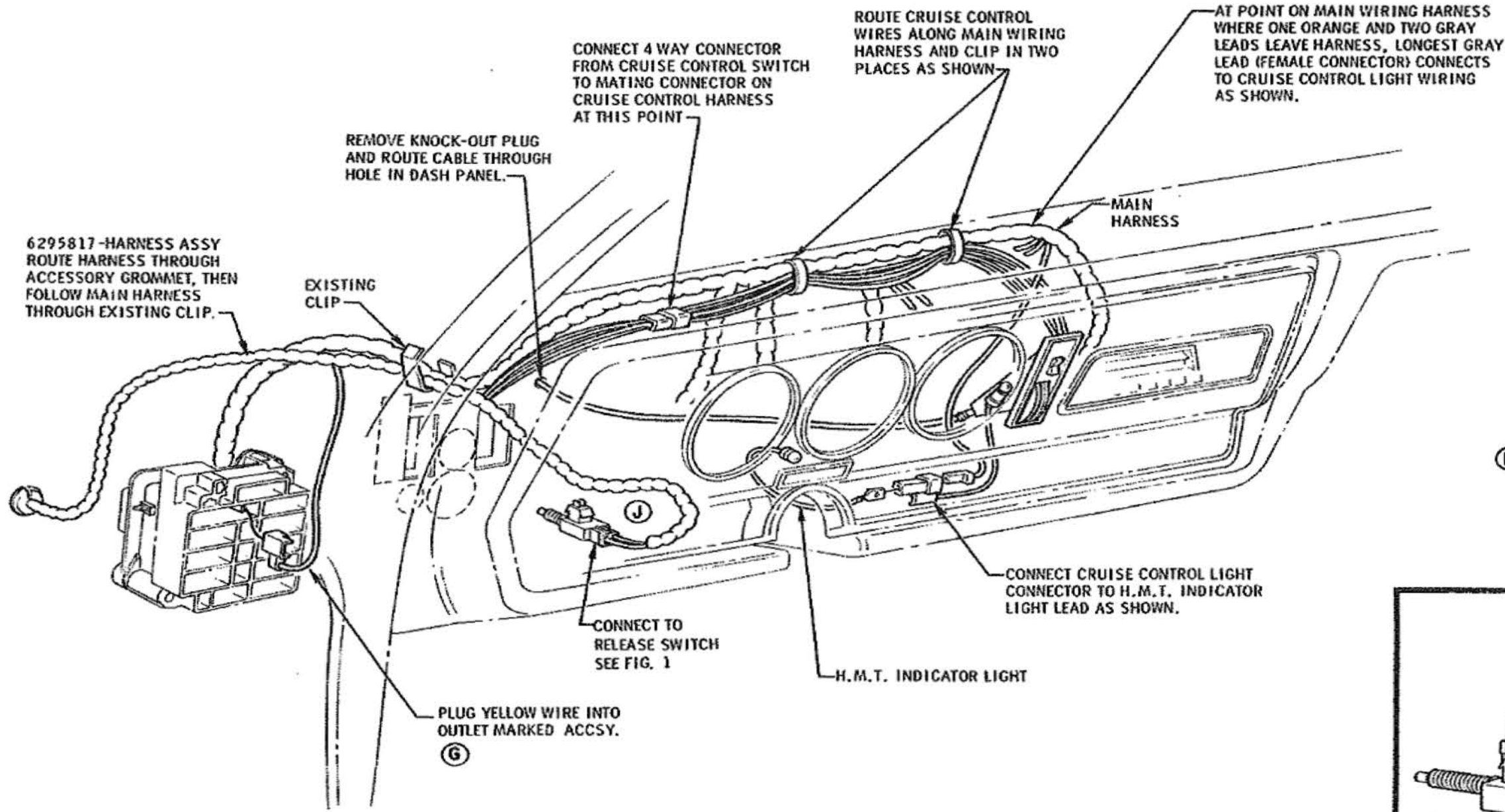
						9-2-67	E	CABLE ROUTING REVISED	J13	D7	TITLE	AUTOMATIC THROTTLE CONTROL							
						8-28-67	D	TORQUE REVISED	J13	D7	DATE MARCH 10, 1967	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE				
						8-4-67	C	TORQUES REVISED	48	MPB	DR. BY ISOYER	1968	INFORMATION MANUAL	1-5	350				
		4-1-68	G	WAS 115802-NUT	BPM	6-5-67	B	BACKGROUND REVD.	3	M/S	CHECKED MPB/anhar	REF. 35130	SERIES	PART NO.					
		10-25-67	F ₂	NOTE ADDED	J13	MPB	5-3-67	A	35H33 CANCELLED	35	MPB	TR-8008	B-C	398163					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TR	SERIES	PART NO.	

NOTE:

1. EXTEND CABLE HOOK BY TURNING SELECTOR DIAL TO LOWEST SPEED.
2. TURN SPRING CLIP SO THAT SELECTOR CABLE CAN BE INSERTED INTO DUST SHIELD.
3. FORCE SELECTOR CABLE INTO DUST SHIELD UNTIL CABLE HOOK SNAPS INTO ITS RETAINER (IT MAY BE NECESSARY TO HOLD THE DIAL FROM TURNING). ROTATE SPRING CLIP INTO POSITION (SNAPS DOWN & LOCKS SELECTOR CABLE INTO DUST SHIELD).



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-24-67	E	NOTE REVISED	B ₂	DT							35K30 WIRE AND CABLES	1968		1-5	351
					5-15-67	D ₂	SEALER NOTES ADDED	B ₂	DT							DATE MAR. 7, 1967				
					4-22-67	C	WAS 6454827-CABLE ASSY	B ₂	DT							DR. BY BOYER				
					4-19-67	B	PART NO. ADDED	B ₂	DT							CHECKED <i>File</i>				
					9-21-67	F	CABLE ROUTING REVISED	J13	DT	4-19-67	A	4887028-PLUG ADDED	B ₂	DT		APPR.				
																	REF. 35K30	SERIES B-C	PART NO. 398163	

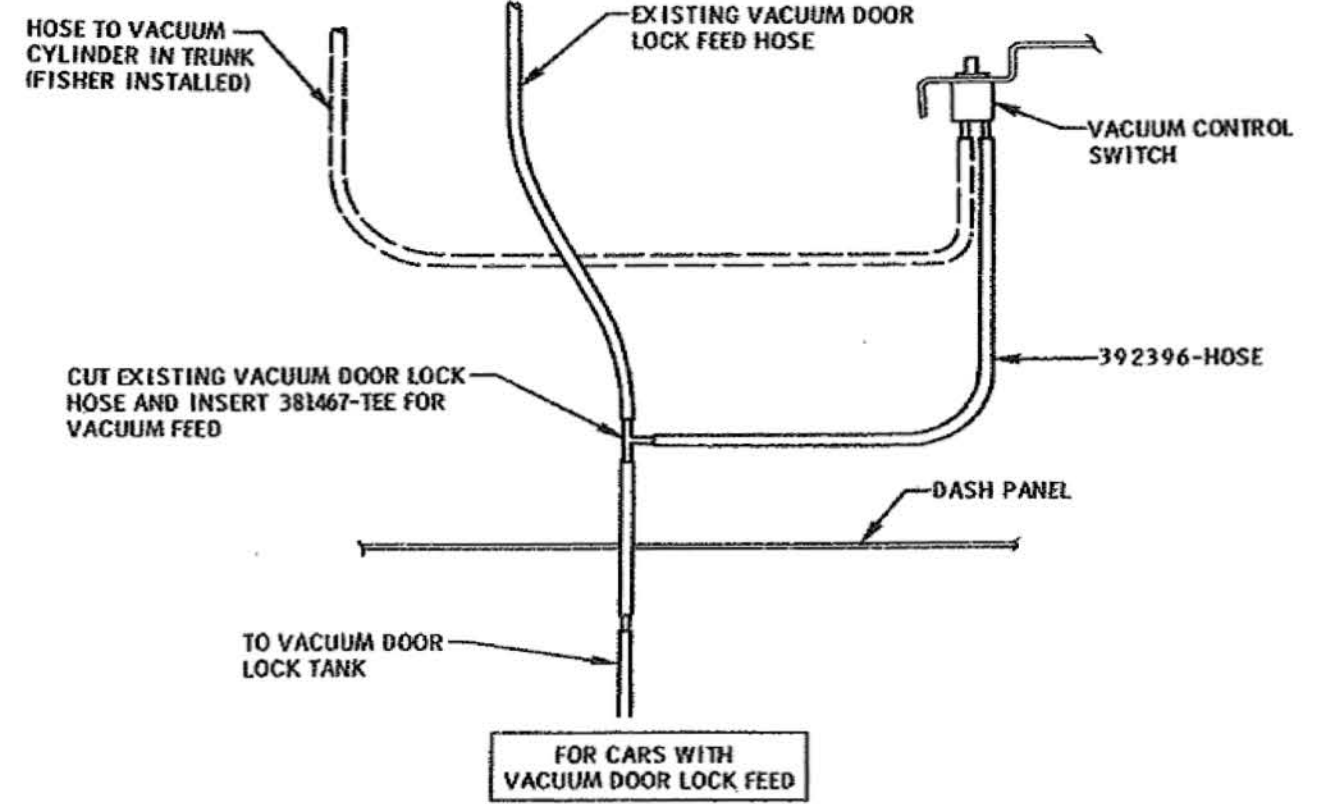
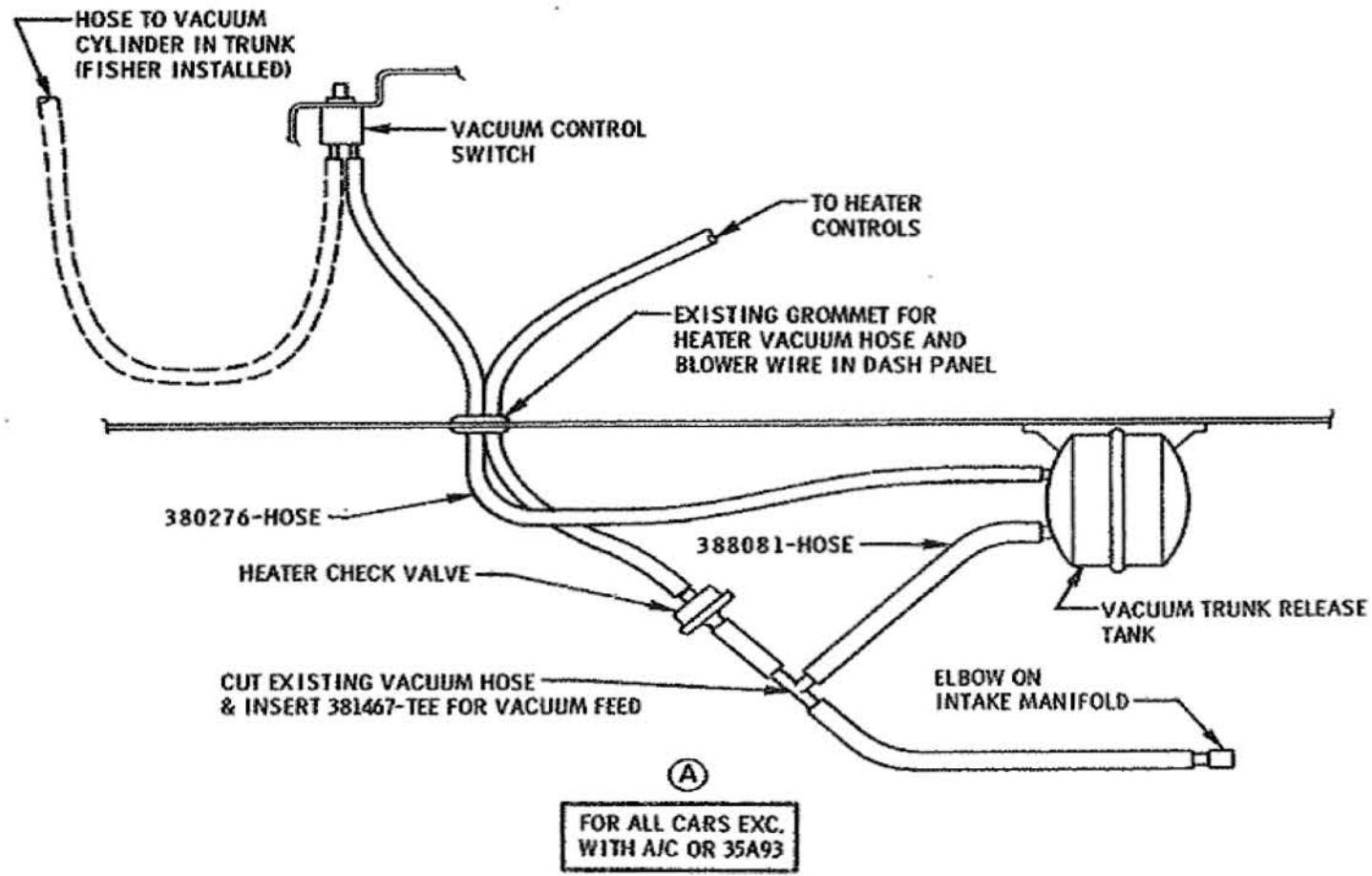
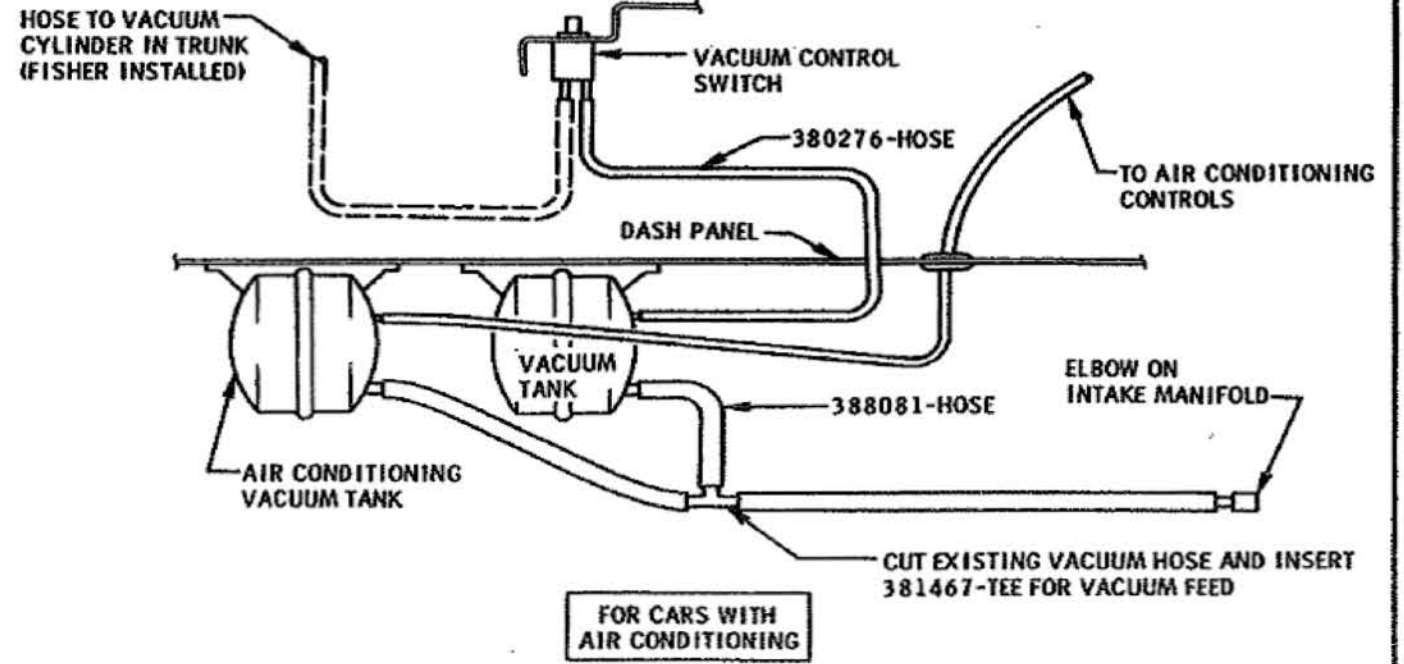


CRUISE CONTROL WIRING UNDER INSTRUMENT PANEL

AVAILABLE ONLY ON CARS WITH AUTOMATIC TRANSMISSION AND POWER BRAKES

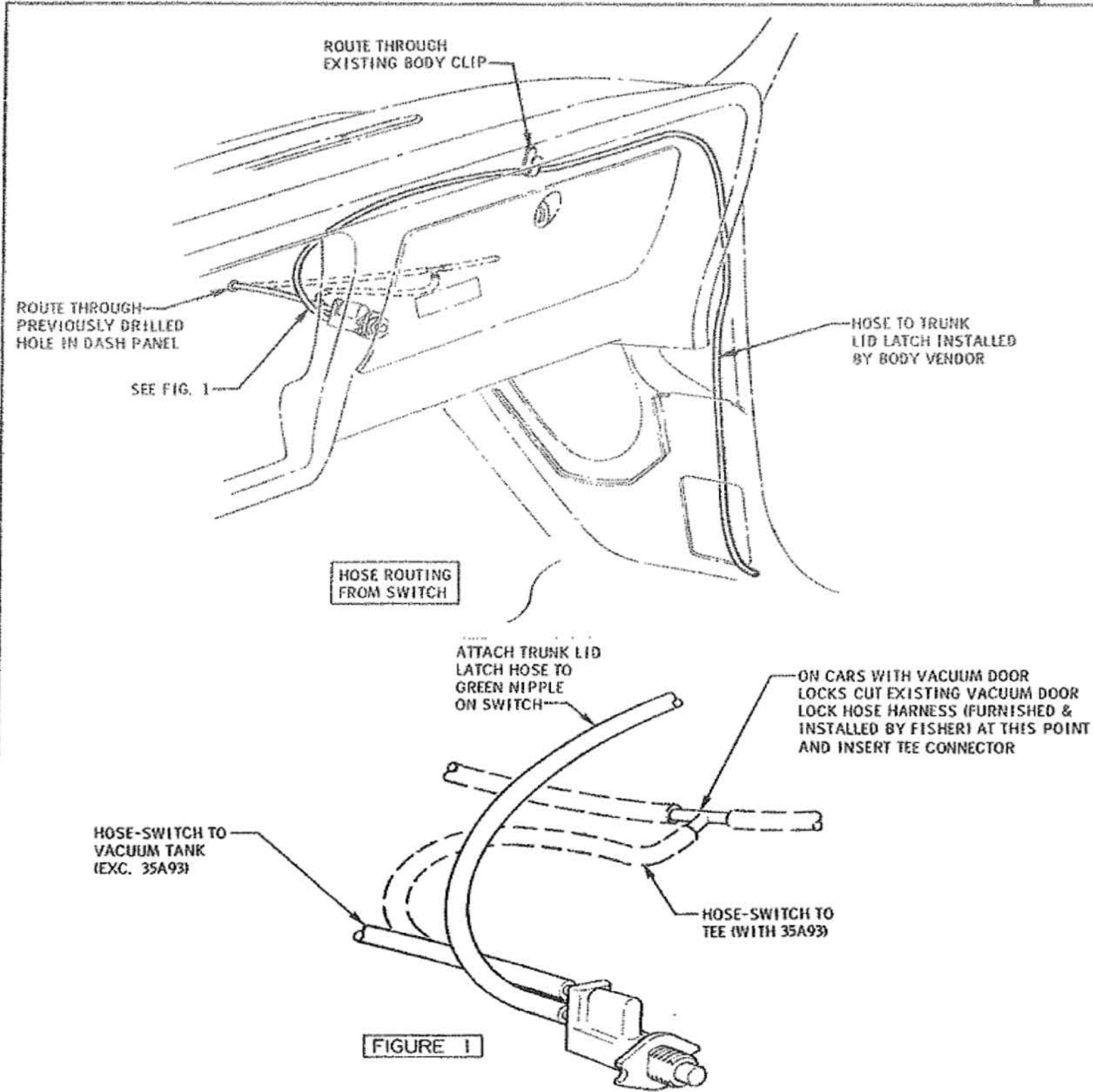
FOR SWITCH INSTALLATION SEE SECT. 5

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					6-16-67	E	WAS 6291112-HARNESS ASSY	EL	DT								35K30 WIRE AND CABLES			
		11-17-67	Jr				CONNECTOR REVISED	PL	DT	5-22-67						DATE MAR. 9, 1967	1968		1-5	352
		11-17-67	H				VIEW REMOVED	PL	DT	5-22-67	C	FIGS. 1 & 2 ADDED				DR. BY 130YER				
		10-21-67	L				NOTE REVISED	S	DT	4-5-67	B	BULB NO. REMOVED				CHECKED <i>Fisher</i>				
		9-15-67	F				REWORKING NO CHANGE	S	DT	3-13-67	A	PLUG RELOCATED				APPR.	REF. 55 K 30			
																	SERIES B-C	PART NO. 398163		



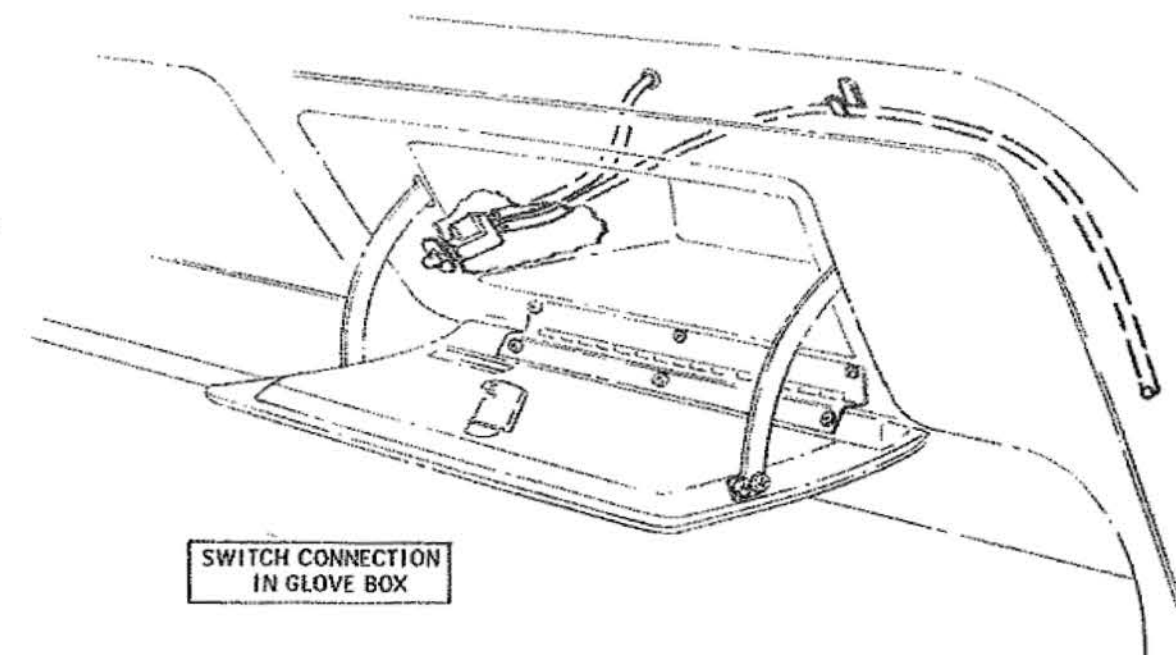
										TITLE		35A91 VACUUM HOSE DIAGRAM				
										DATE		FEB. 11, 1967				
										DR. BY		JOSEPH V. GALL				
										CHECKED		[Signature]				
										APPR.		[Signature]				
										FIRST USED		1968				
										OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION 1-5				
										SERIES		B-C				
										PART NO.		398163				
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.

7-3167 A 35A 98 USAGE REMOVED BP DT

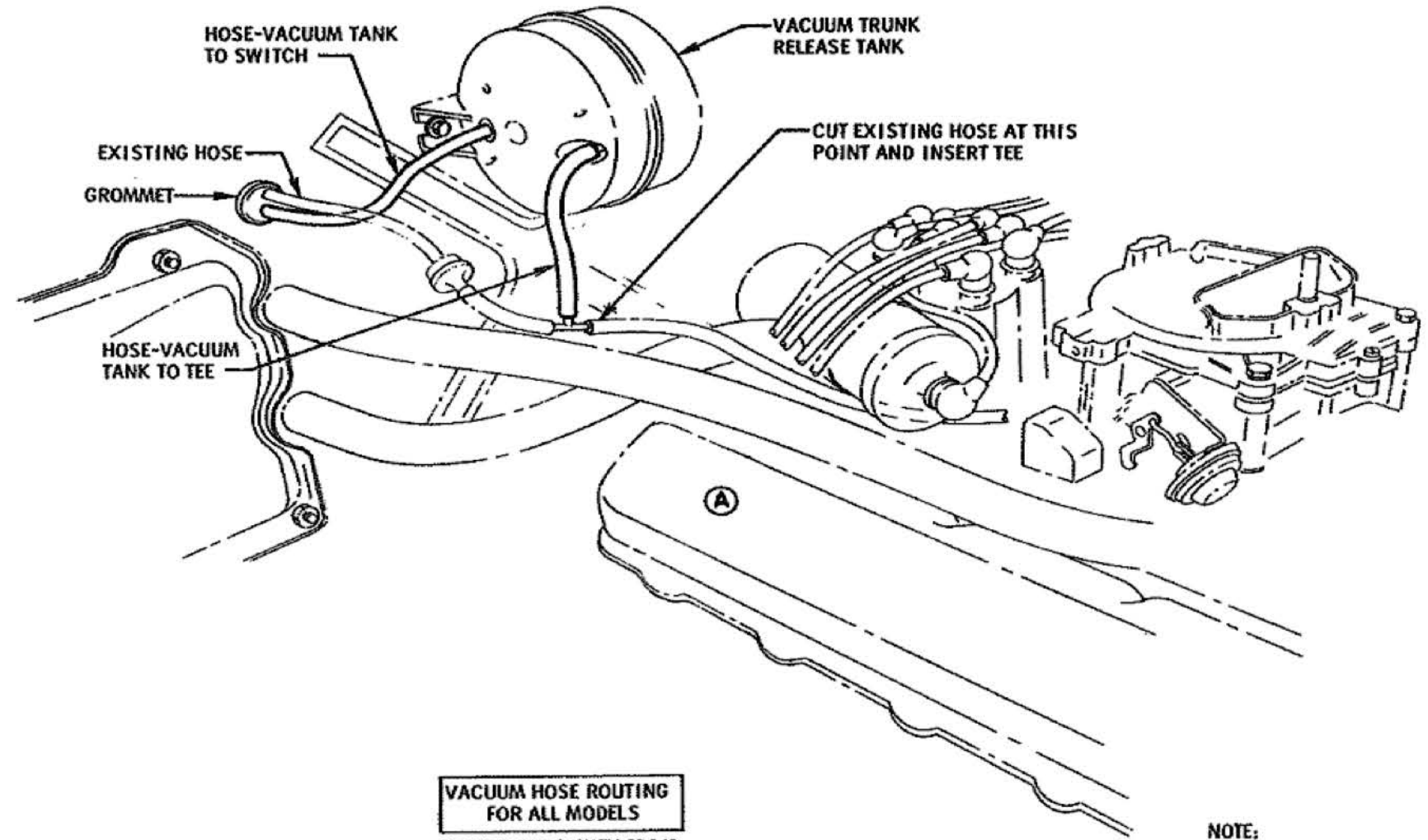


TESTING INSTRUCTIONS

1. START ENGINE AND TEST OPERATION OF TRUNK RELEASE. STOP ENGINE. TRUNK LID SHOULD RELEASE FOR ONE OPENING. IF TRUNK LID DOES NOT OPEN, ADJUST TRUNK LID STRIKER DOWN ONE NOTCH AND RETEST. REPEAT ADJUSTMENT IF NECESSARY TO OBTAIN A SATISFACTORY OPERATION AND FIT ON TRUNK LID.
2. TRUNK LID SHOULD RISE TO COMPLETE OPEN POSITION WHEN POWER LATCH HAS BEEN RELEASED. TO ACCOMPLISH THIS, RAISE ONE TRUNK LID TORQUE BAR (LOCATED ON THE HINGE BOX) ONE NOTCH. IF LID STILL DOES NOT RISE TO AN OPEN POSITION, RAISE THE TORQUE BAR ON THE OTHER SIDE OF THE TRUNK ONE NOTCH.



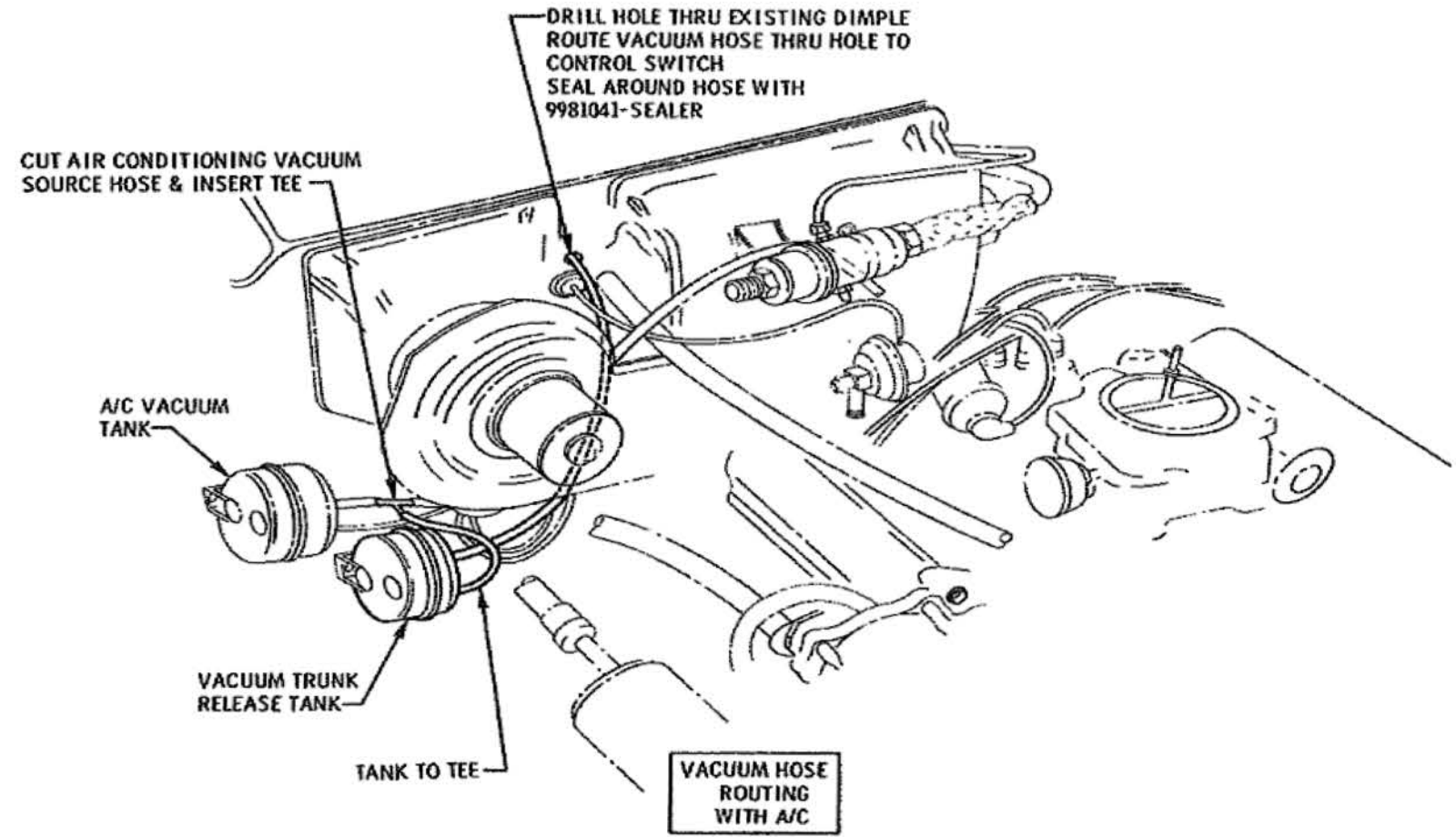
												TITLE 35A91 VACUUM HOSE ROUTING (INSIDE CAR)						
												DATE	MAR. 1, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
												DR. BY	B. PARKER	REF.		INFORMATION MANUAL	1-5	371
												CHECKED	<i>[Signature]</i>	SERIES	B-C	PART NO.	398163	
												APPR.						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.			



VACUUM HOSE ROUTING
FOR ALL MODELS
EXCEPT CARS WITH 35C60,
35C61 AND/OR 35A93

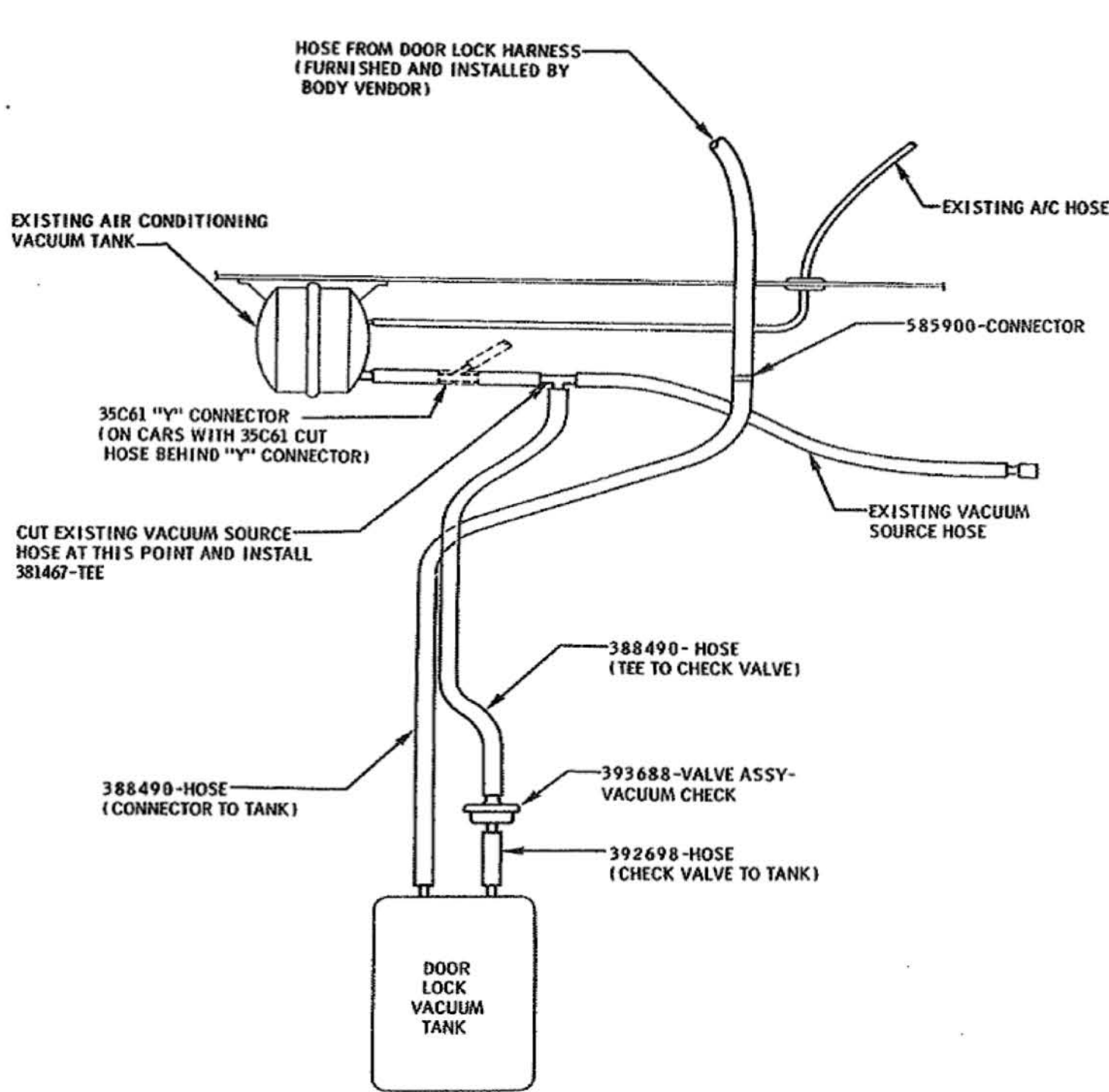
NOTE:
SEE SECTION 1-5 PAGE 370
FOR PART NUMBERS

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																35A91 VACUUM HOSE ROUTING - ENGINE COMPARTMENT	1968		1-5	372
					7-31-67	B	35A98 USAGE REMOVED	SP	DT							CHECKED				
					5-16-67	A	BACKGROUND REVISED	V	DT							APPR.				
																			SERIES	PART NO.
																			B-C	398163

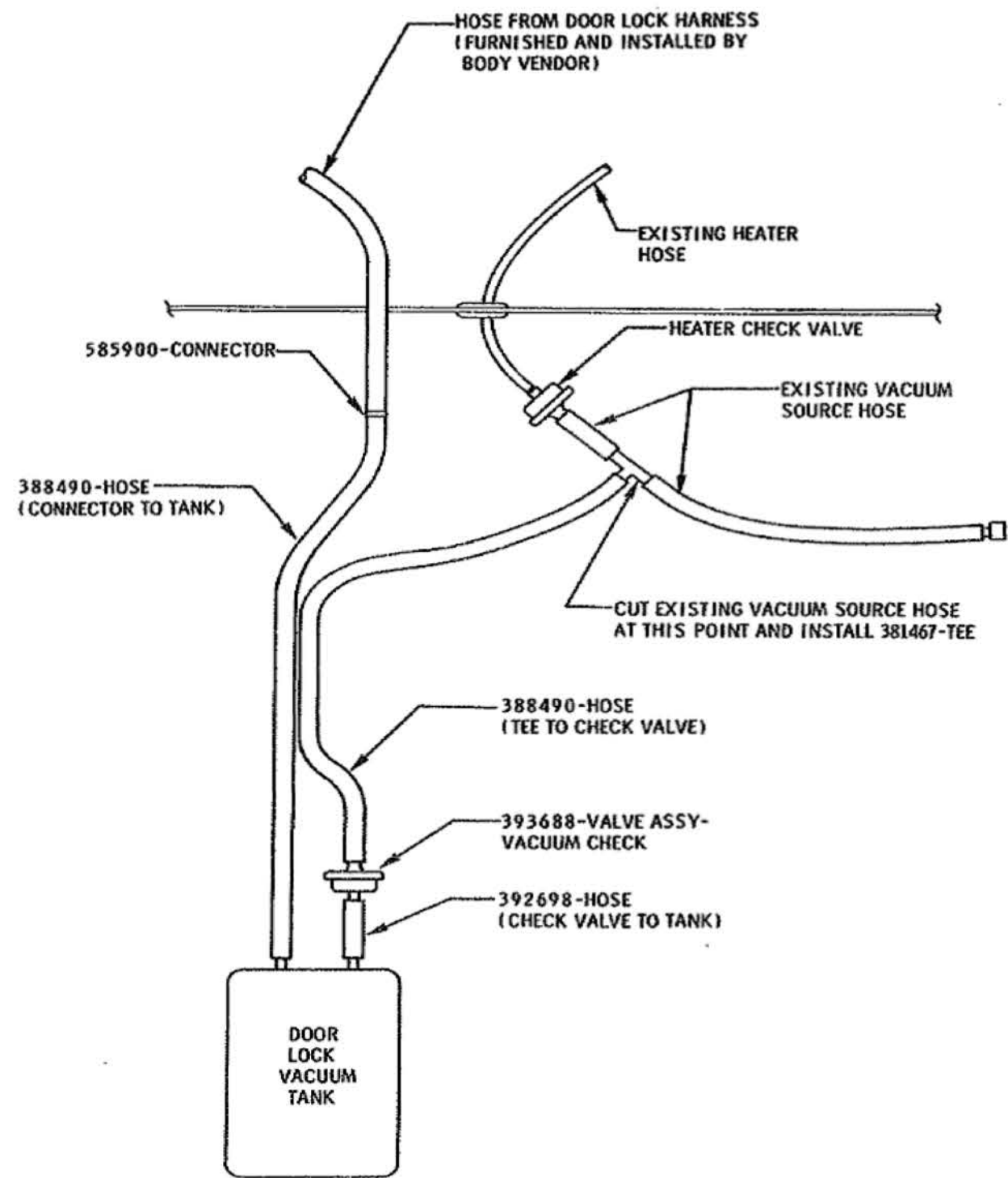


SEE SECTION 1-5 PAGE 370
FOR PART NUMBERS

										TITLE		35A91 VACUUM HOSE ROUTING WITH A/C			
										DATE		FEB. 9, 1967			
										DR. BY		JOSEPH Y. GALL			
										CHECKED		<i>[Signature]</i>			
										APPR.					
										REF.		35A91			
										SERIES		B-C			
										PART NO.		398163			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.



DOOR LOCK VACUUM HOSE ROUTING WITH A/C



DOOR LOCK VACUUM HOSE ROUTING EXCEPT A/C

(A)

										TITLE 35A93 VACUUM HOSE DIAGRAM				
										DATE FEB. 25, 1967	FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 1-5	PAGE 374
										DR. BY JOSEPH V. GALL				
										CHECKED Tetra				
										APPR. BPD				
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	SERIES B-C	PART NO. 398163
				7-31-67	A	35A98 REMOVED								

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

9422561-SCREW
(SELF DRILLING)
LOCATE AT DIMPLES

388488-CLAMP

HOSE FROM DOOR LOCK HARNESS
(FURNISHED AND INSTALLED BY
BODY VENDOR)

HEATER CHECK VALVE

TEE LOCATION FOR ALL CARS
EXC. A/C. SEE FIGURE 1 FOR
TEE LOCATION WITH A/C.

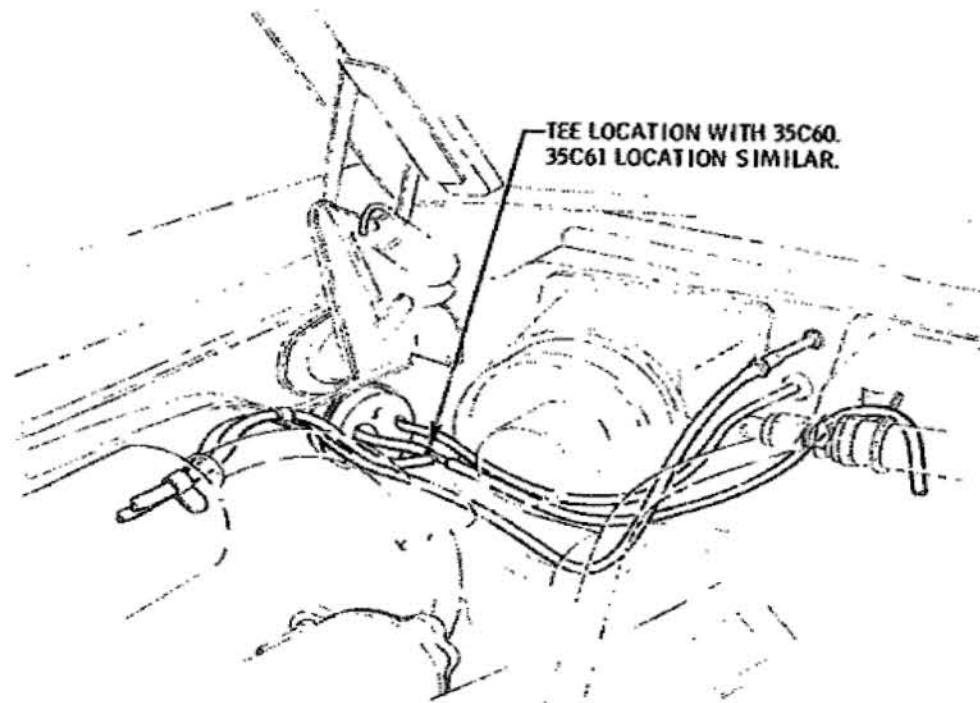
VACUUM HOSE
(CHECK VALVE TO TEE)

SEE SECT. 11 PAGE 131 FOR
TANK INSTALLATION

TEE LOCATION WITH 35C60.
35C61 LOCATION SIMILAR.

VACUUM HOSE
(TANK TO CONNECTOR)

VACUUM SOURCE ELBOW POSITION
FOR ALL 455 CU. IN. ENGINES
(SEE FIG. 2 FOR ALL 350 CU. IN. ENGINES)



TEE LOCATION WITH A/C
FIGURE 1

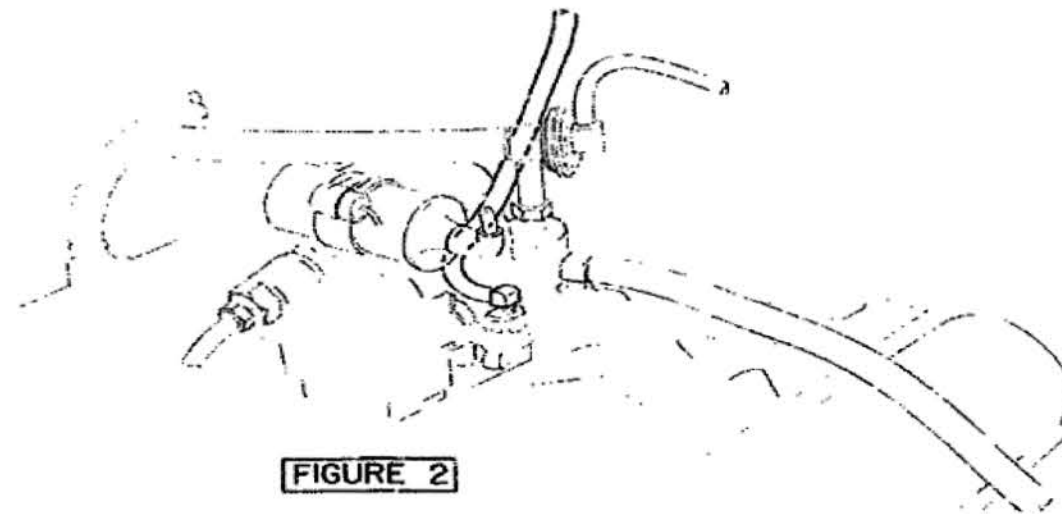


FIGURE 2

FOR REMAINDER OF PART NUMBERS
SEE SECTION 1-5 PAGE 374.

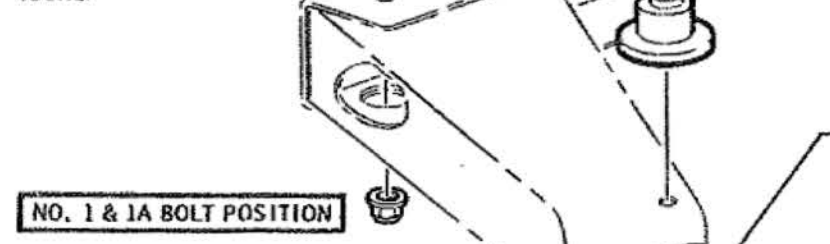
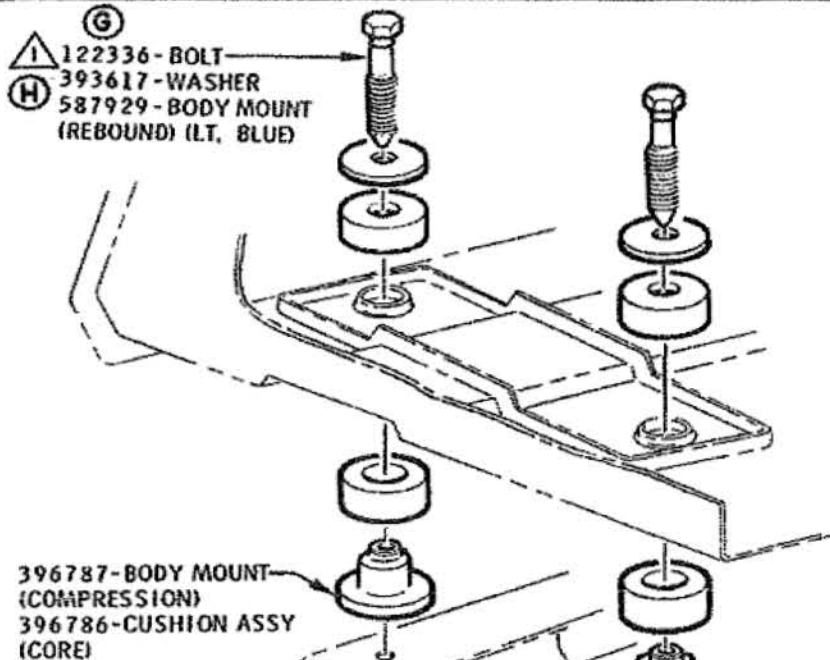
35A93 VACUUM HOSE ROUTING												
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION
					10-10-67	E	NOTE ADDED	JV	DT			
					10-10-67	D	VIEW ADDED	JV	DT			
					7-31-67	C	35A93 REVISED	JV	DT			
					6-30-67	B	TANK NOTE ADDED	JV	DT			
					2-28-67	A	DRAWING REVISED	JV	DT			
					11-16-67	G	BACKGROUND REVISED	JV	DT			
					10-10-67	F	CLAMPS ROTATED	JV	DT			

TITLE	35A93 VACUUM HOSE ROUTING	FIRST USED	1968	MANUAL SECTION	1-5	PAGE	375
DATE	FEB. 8 1967	DR. BY	JOSEPH V. GALL	SERIES	B-C	PART NO.	398163
CHECKED	JV	APPR.	JV				

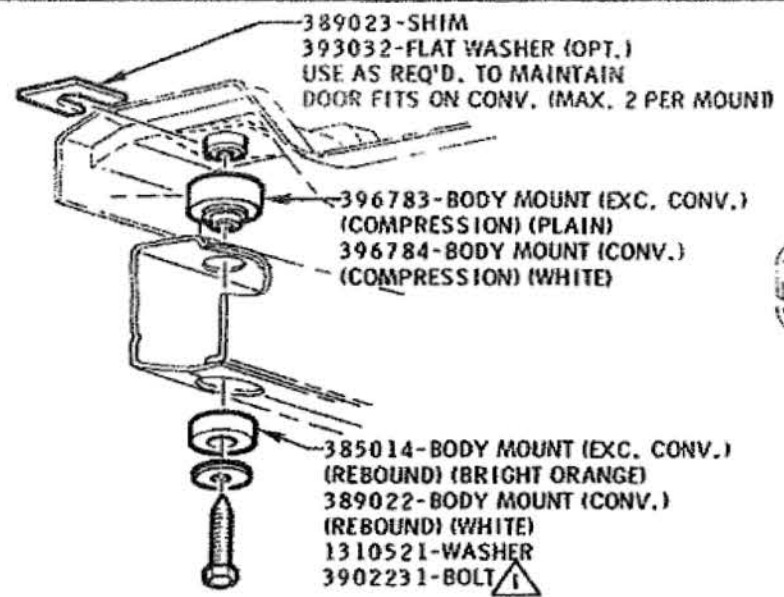
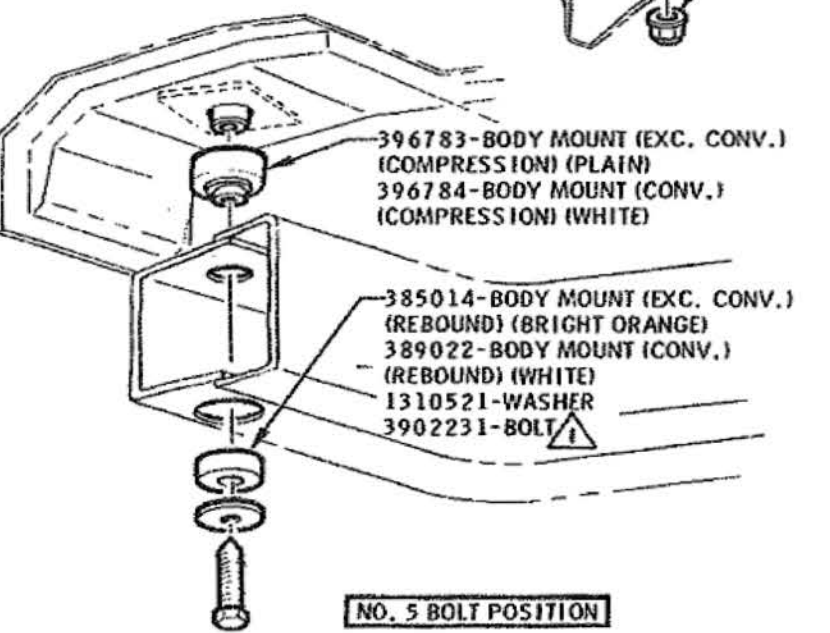
OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

B. CASPARI, INC. 77094



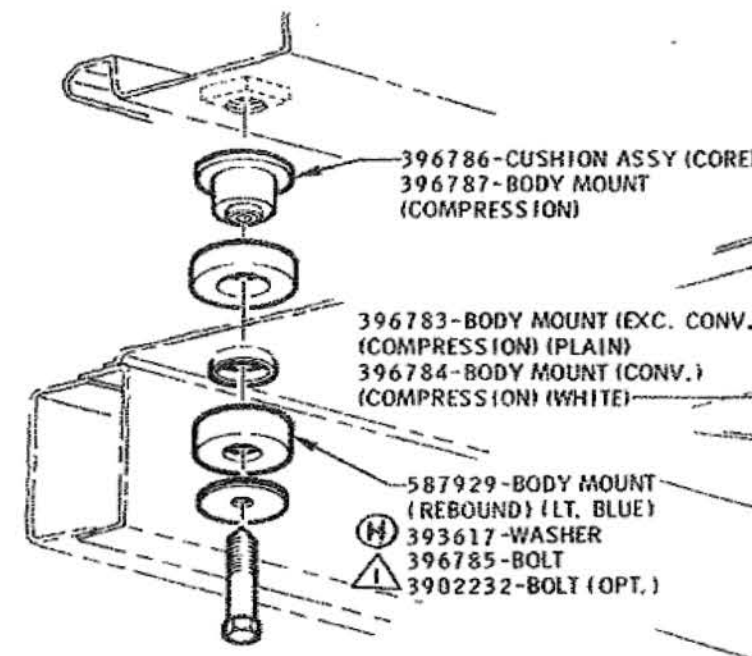
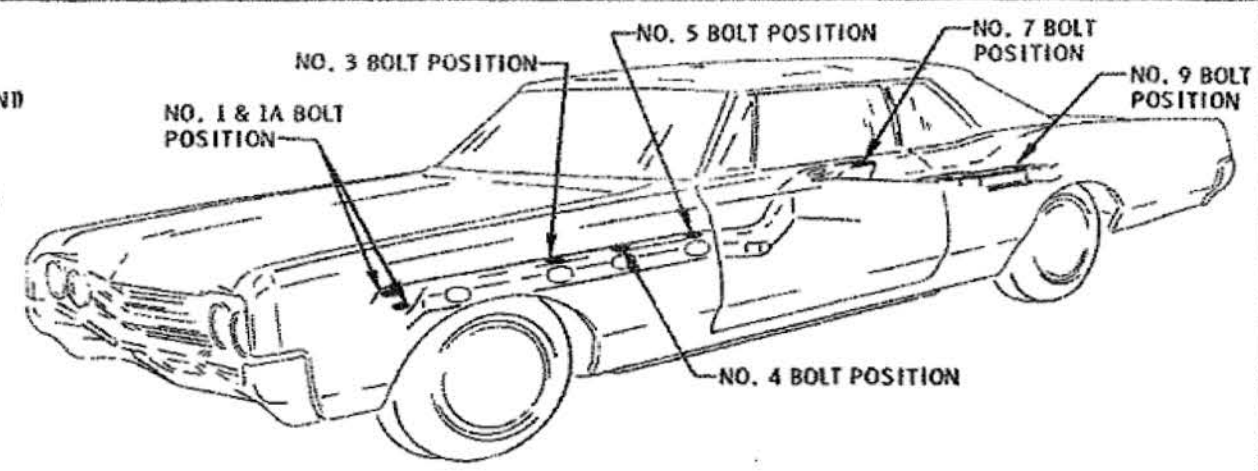
NO. 1 & 1A BOLT POSITION
FASTENINGS SAME FOR BOTH BOLT POSITIONS



NO. 3 & 4 BOLT POSITION
NO. 3 POSITION (ALL MODELS)
NO. 4 POSITION (CONVERTIBLES)

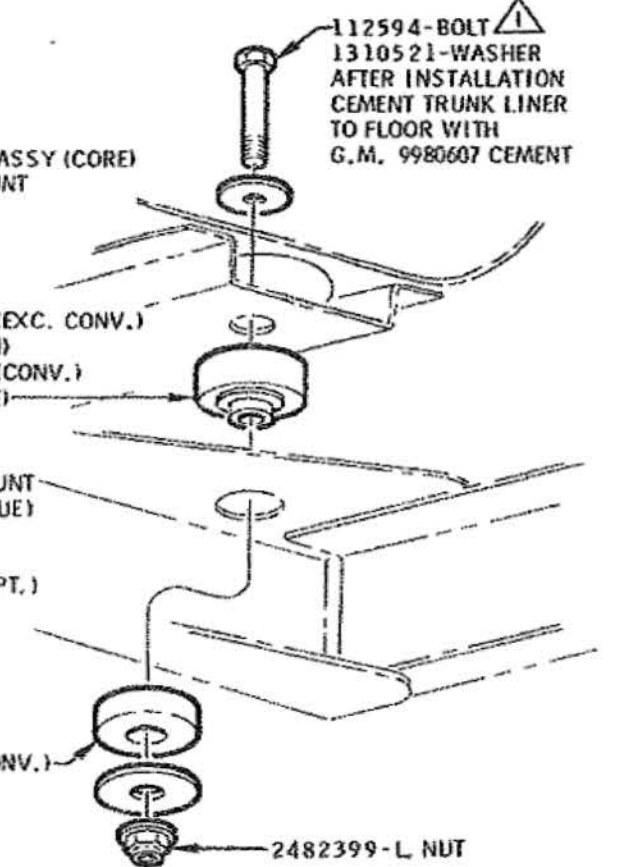
FRAME USAGE CHART

FRAME ASSY NO.	CODE	GROUP	USAGE
398006	GS	2B	5400 (EXC. CONV.)
398007	GT	2B	5467 (EXC. 35M31)
		35F35	5400 (EXC. 35M31)
401966	GY	2B	5467 (WITH 35M31)
		35F35	5400 (WITH 35M31)
398004	GP	2B	56, 64, 6600 (EXC. 5667)
398005	GR	2B	5667
		35F35	56, 64, 6600
398009	GW	2B	84, 8600 (EXC. 8467)
398010	GX	2B	8467
		35F35	84, 8600



NO. 7 BOLT POSITION

385014-BODY MOUNT (EXC. CONV.) REBOUND (BRIGHT ORANGE)
389022-BODY MOUNT (CONV.) REBOUND (WHITE)
1310521-WASHER



NO. 9 BOLT POSITION

30 - 45 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
10-19-67	E ₂	NUT USAGE REV.	J13	MY2	9-18-67	D	FRAME REQUIREMENTS ADDED	J13	MY2	2-13-68	H ₂	WAS 587928 WASHER	J13	MY2	8-24-67	C	NUT USAGE ADDED	J13	MY2	DATE FEBRUARY 14, 1967	1968	2	110
12-11-67	G	WAS 100152 BOLT	J13	MY2	6-9-67	B	WAS 35-45 LB. FT.	J13	MY2	11-30-67	F	WAS 4776763 NUT	J13	MY2	3-30-67	A	OPTION ADDED	J13	MY2	DR. BY SCOTT McDONALD	REF. 1B 2B	B-C	398163
																				35F35			

1968 FRONT SPRING USAGE BY MODEL

(B)

CHASSIS CODE		3C (STANDARD CAR)	C60 OR C61 (A/C)	(B) B01 OR F74 (POLICE OR EXPORT)		B07 (POLICE)		CHASSIS CODE	
SERIES	MODEL		EXC. POLICE OR EXPORT	EXC. C60 OR C61	C60 OR C61	INCL. C60 OR C61		MODEL	SERIES
35400	39	397955 VA	397956 VF	397956 VF	397957 VL	NA		39	35400
	67	400510 VB (A)	397956 VF	400433 VD (A)	397957 VL	NA		67	
	69	397955 VA	397956 VF	400433 VD (A)	397957 VL	NA		69	
	87	397955 VA	400433 VD (A)	400433 VD (A)	397957 VL	NA		87	
35600	39	397956 VF	397958 VC	397958 VC	397959 VK	397961 VN		39	35600
	67	397956 VF	397958 VC	397958 VC	397959 VK	NA		67	
	69	400433 VD (A)	397958 VC	397958 VC	397959 VK	397961 VN		69	
	87	400433 VD (A)	397958 VC	397958 VC	397959 VK	397961 VN		87	
36400	39	397956 VF	397958 VC	397958 VC	397960 VG	397961 VN		39	36400
	69	400433 VD (A)	397958 VC	397958 VC	397959 VK	397961 VN		69	
	87	397956 VF	397958 VC	397958 VC	397960 VG	397961 VN		87	
36600	39	397956 VF	397959 VK	397958 VC	397960 VG	NA		39	36600
	87	397956 VF	397958 VC	397958 VC	397959 VK	NA		87	
38400	39	397957 VL	397959 VK	397959 VK	# 397960 VG	NA		39	38400
	57	397956 VF	397959 VK	397959 VK	397960 VG	NA		57	
	67	397957 VL	397959 VK	397959 VK	397960 VG	NA		67	
	69	397956 VF	397959 VK	397959 VK	397960 VG	NA		69	
38600	69	397957 VL	397959 VK	397959 VK	# 397960 VG	NA		69	38600

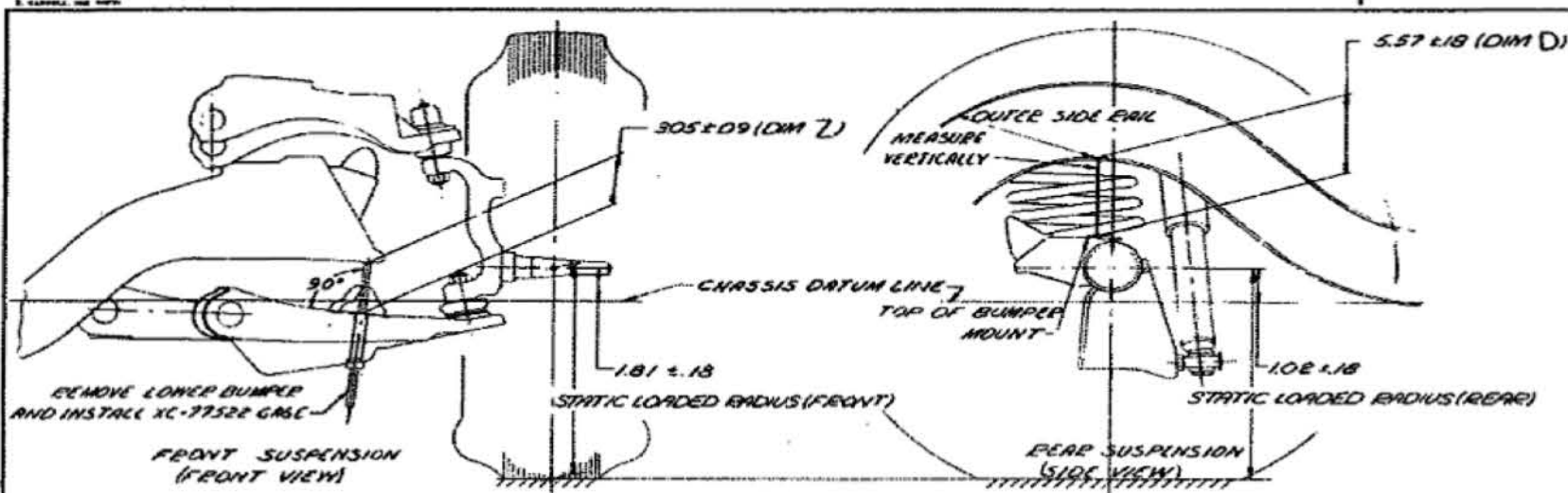
SPRINGS SHOULD BE USED EITHER LOW RANGE ON BOTH SIDES OF CAR OR HIGH RANGE ON BOTH SIDES OF CAR.

HIGH LOAD RANGE - PART NUMBER AND CODE LETTERS.
LOW LOAD RANGE - CIRCLE AROUND CODE LETTERS.

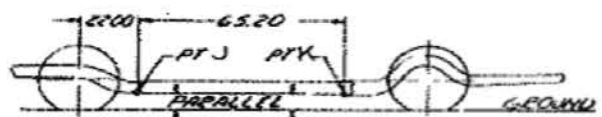
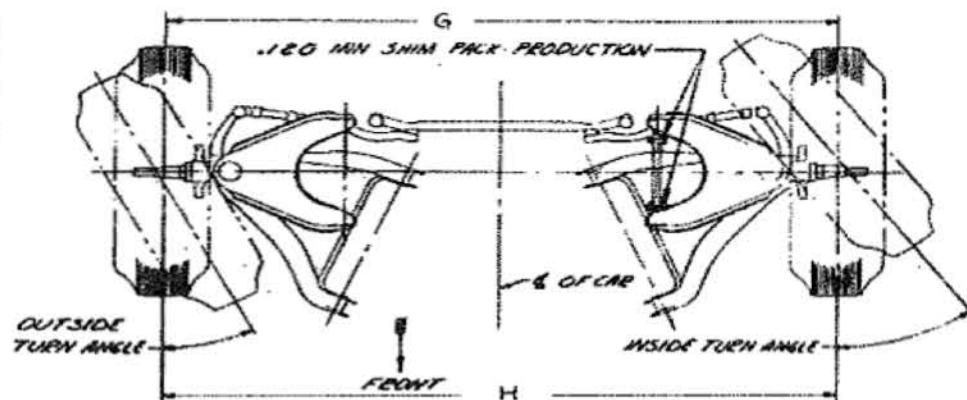
PLUS 391922 SPACER WITH C60 OR C61

FOR SPRING DETAIL AND TAPE IDENTIFICATION
SEE DRAWING 396388.

TITLE												CHART - FRONT SPRING USAGE							
DATE <u>JANUARY 9, 1967</u>												FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
DR. BY <u>RODNEY DAVIS</u>												1968		INFORMATION MANUAL		3		100	
CHECKED <u>DON MALKIN</u>												REF.		SERIES		PART NO.			
APPR. <u>J.C. Smith</u>														B-C		399792			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.				



SPRING HEIGHT CHECK AND PRODUCTION SETTING

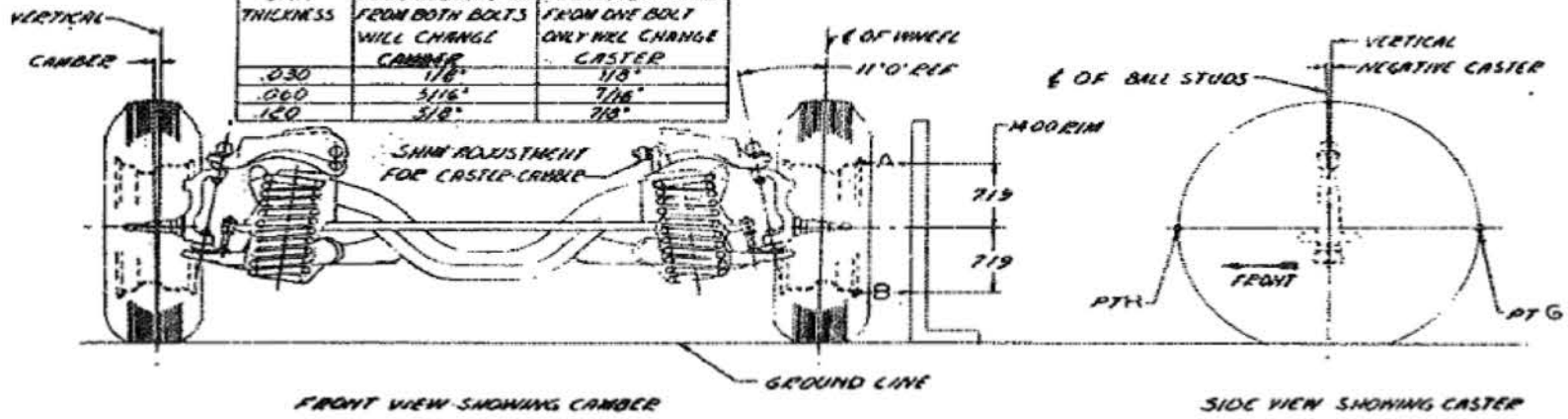


OPTIONAL PRODUCTION SETTING METHOD
WHEEL TURN GEOMETRY

TURN	INSIDE TURN ANGLE	OUTSIDE TURN ANGLE
FULL TURN-POWER	36°00'	27°00'
FULL TURN-MANUAL	36°00'	27°56'
20° TURN-POWER	20°00'	17°51'
20° TURN-MANUAL	20°00'	18°26'

PLAN VIEW SHOWING TOE-IN

SHIM THICKNESS	ONE SHIM ADDED TO BE SUBTRACTED FROM BOTH BOLTS WILL CHANGE CAMBER	ONE SHIM ADDED TO BE SUBTRACTED FROM ONE BOLT ONLY WILL CHANGE CASTER
.030	1/8"	1/8"
.060	3/16"	7/16"
.150	5/8"	7/8"



TOE-IN CAMBER AND CASTER

CAR HEIGHT:
PRODUCTION- SET CAR AT FRONT CARRYING HEIGHT USING DIMENSION Z AND POSITION FRAME SIDE BAR TO ANGLE SHOWN BETWEEN POINTS J & K
OPTIONAL METHOD- SET CAR AT DIMENSION Z FRONT, DIMENSION D REAR AND VARY TIRE PRESSURE TO OBTAIN EQUAL STATIC LOADED RADIUS FRONT & REAR.
SERVICE- SET CAR TO NORMAL CURB CARRYING HEIGHT USING SERVICE MANUAL ROCKER PANEL TO GROUND DIM. (GAS TANK FULL, TRUNK EMPTY ETC FOR SPARE & JACK)

TOE-IN:
NOTE: STEERING WHEEL SPOKE MUST BE HELD IN HORIZONTAL PLANE DURING TOE-IN SETTING. AFTER TOE-IN-SET, THE STEERING WHEEL MUST BE CENTERED WITHIN .62 LEFT AND .62 RIGHT AT EIM.
PRODUCTION SETTING- DIMENSION G 1/8 TO 1/4 GREATER THAN DIMENSION H, A MINIMUM OF ONE COMPLETE THREAD MUST PROJECT BEYOND EACH END OF TIE ROD SLEEVE AFTER TOE-IN IS SET.
SERVICE LIMIT: DISTANCE FROM ONE TIRE TO THE OTHER AT PT G SHOULD BE 1/8 TO 3/16 GREATER THAN AT POINT H.

CAMBER:
PRODUCTION SETTING- CAMBER ANGLE 1/8" POSITIVE 1/32"
SERVICE LIMIT- CAMBER ANGLE 1/8" NEGATIVE TO 1/8" POSITIVE. EQUIVALENT DISTANCE A IS .13 LESS TO .06 MORE THAN B. MAXIMUM VARIATIONS BETWEEN THE TWO SIDES OF THE CAR SHOULD NOT EXCEED 1/2" FOR BOTH PRODUCTION AND SERVICE SETTINGS.
CASTER:
PRODUCTION SETTING- CASTER ANGLE TO BE 1/2" NEGATIVE 1/16"
SERVICE LIMIT- CASTER ANGLE TO BE 1/2" TO 1/8" NEGATIVE. MAXIMUM VARIATION BETWEEN THE TWO SIDES OF THE CAR SHOULD NOT EXCEED 1/2" FOR BOTH PRODUCTION AND SERVICE SETTING.

FRONT WHEEL TRACK (AT GROUND):
 62.50 ALL MODELS
REAR WHEEL TRACK:
 63.00 ALL MODELS

REV	DATE	REVISIONS	BY	CHK
1	1967	WAS 10-24-65		
2	1968	WAS 0-165		

OLDSMOBILE DIVISION
GENERAL MOTORS CORPORATION
LANSING, MICHIGAN

400898
LAST CHANGE

DO NOT SCALE

DATE: MAR 8, 1967 BY: M. OTIS

FILE: BEDFORD

1968

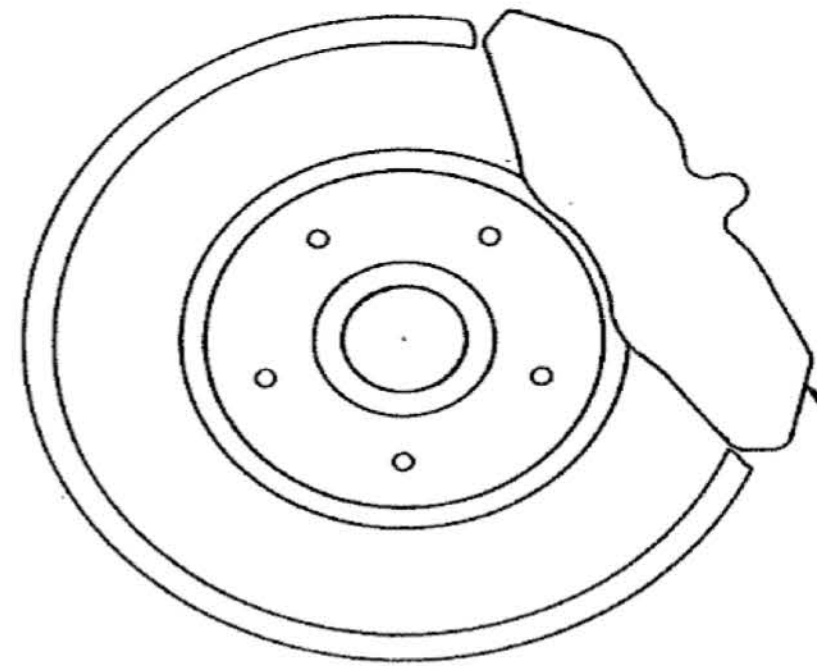
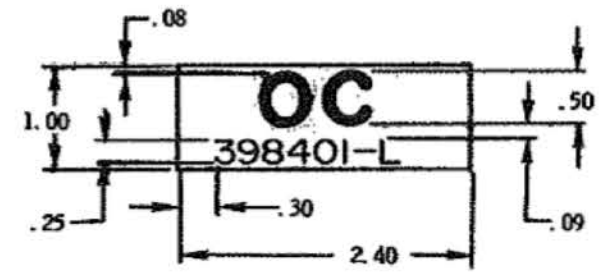
400898

LAYOUT-FRONT & REAR
WHEEL ALIGNMENT

400898

USAGE			
STEERING KNUCKLE ASSEMBLIES			
CODE	STEERING	MODEL	PART NO.
OC	MANUAL	54, 56, 64, 66 WITH J52	398400-R. 398401-L.
OE	POWER	54, 56, 64, 66, 84, 86 WITH J52	398402-R. 398403-L.
OH	MANUAL	54, 56, 64, 66 WITH J55	399336-R. 399337-L.
OG	POWER	54, 56, 64, 66, 84, 86 WITH J55	401492-R. 401493-L.
OM		ALL F-85 WITH J52	401362-R. 401363-L.
OL		ALL F85 WITH J55	401506-R. 401507-L.

Ⓔ Ⓒ



STICKER TO BE
INSTALLED ON THIS
SURFACE OF CALIPER
WHEN SHOP ASSY
IS COMPLETED.

Ⓓ Ⓔ J52, J55 SHEET 2

DATE					SYMBOL					REVISION					DATE					SYMBOL					REVISION					DATE					SYMBOL					REVISION				
TITLE CHART - KNUCKLE SHOP ASSEMBLY CODE																				DATE MARCH 20, 1967					FIRST USED 1968					OLDSMOBILE PRODUCT INFORMATION MANUAL					MANUAL SECTION 3					PAGE 106				
DR. BY K. LOVELL																				CHECKED J. N. FIMES					APPR. J. E. ...					SERIES A-B-C					PART NO. 400954									

POSITION OF TIE ROD ADJUSTER SLEEVE & CLAMP

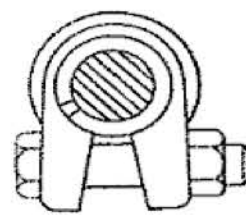


FIGURE 1

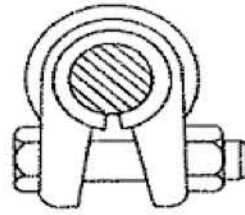


FIGURE 2

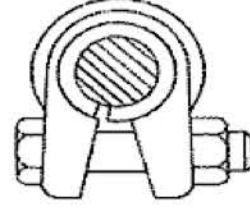
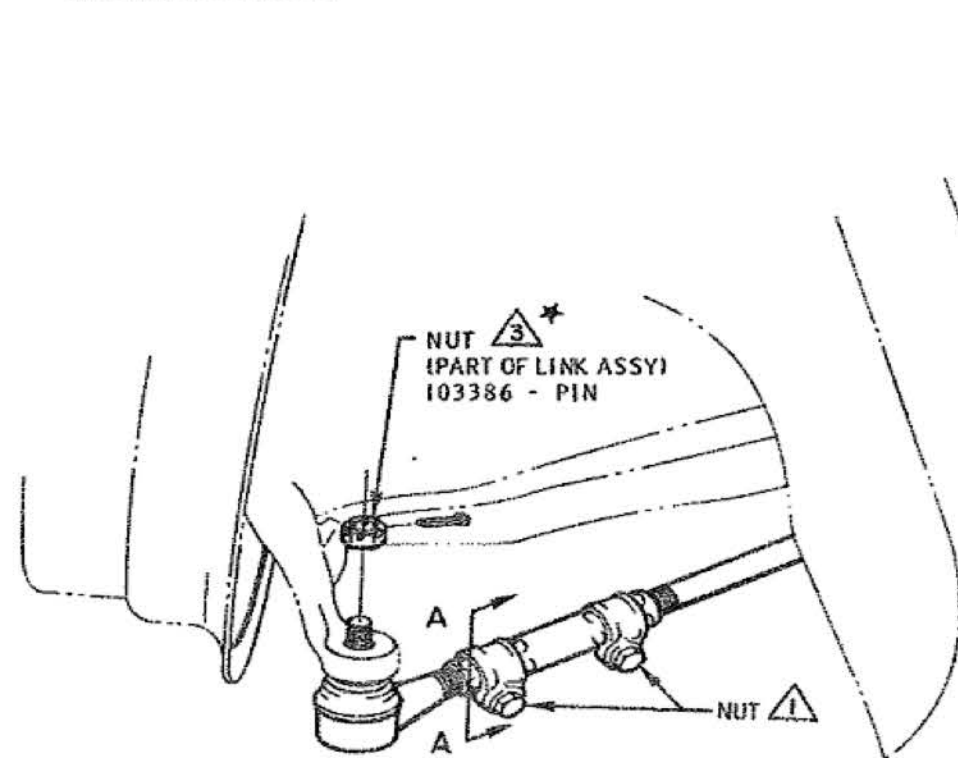
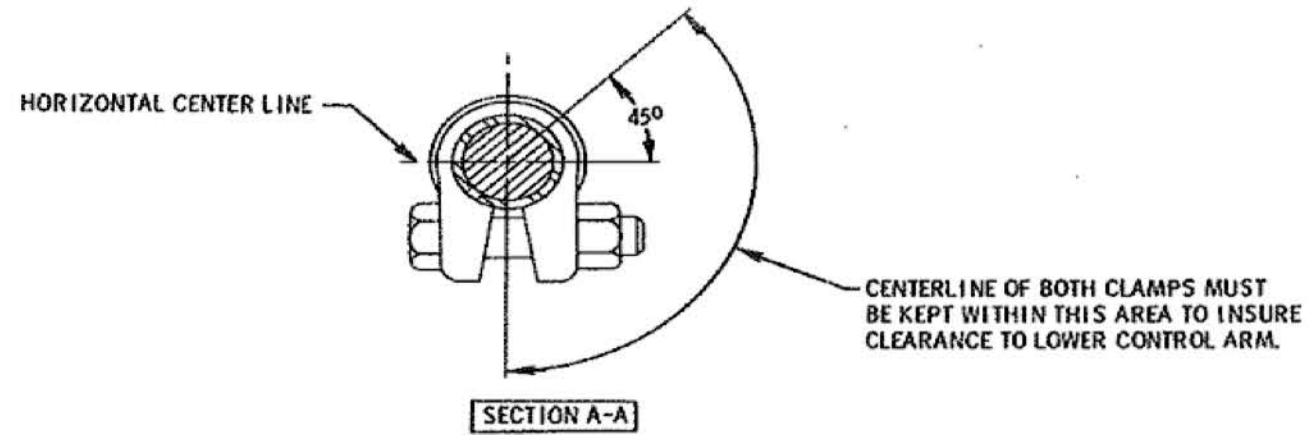


FIGURE 3

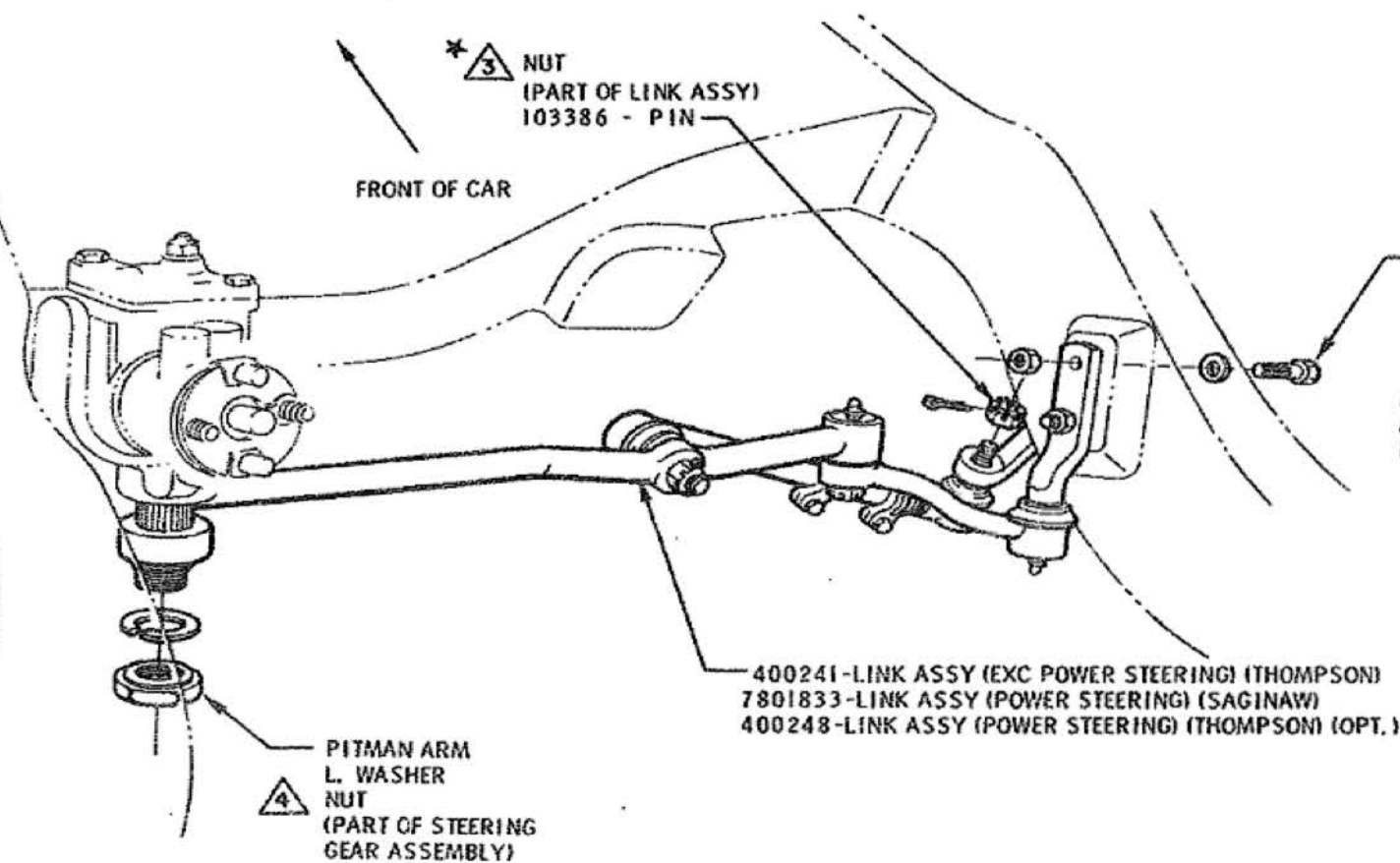
SLOT IN TIE ROD ADJUSTER SLEEVE MAY BE IN ANY POSITION EXCEPT AT EDGES OF CLAMP JAWS OR BETWEEN CLAMP JAWS.

FIGURE 1 SHOWS A CORRECT POSITION. FIGURES 2 AND 3 ARE INCORRECT POSITIONS.



TIE ROD & END HOUSING THREAD ENGAGEMENT INTO SLEEVE MUST BE EQUAL - BOTH ENDS

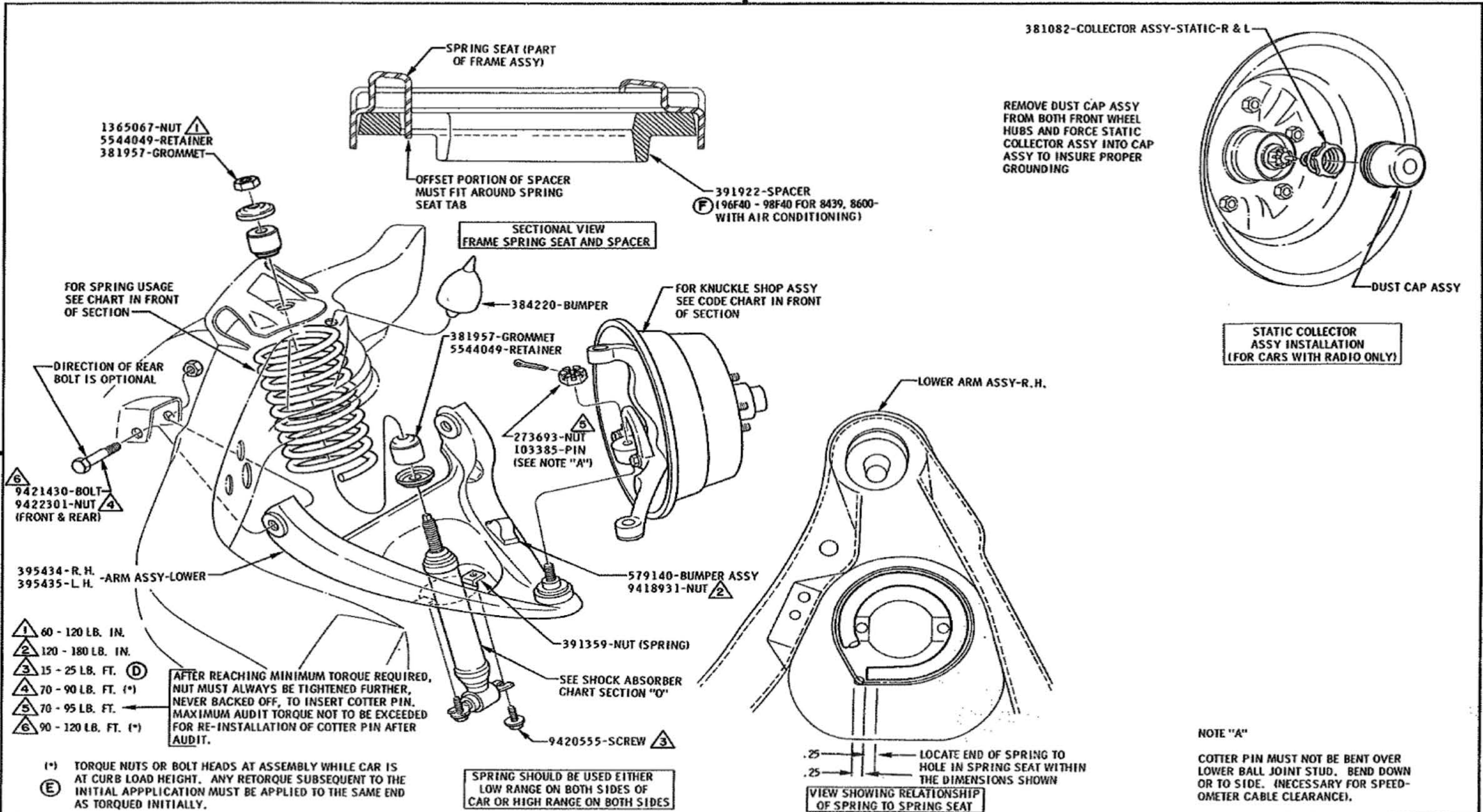
WHEN MAKING FINAL ADJUSTMENTS OF TIE ROD, MAKE SURE THAT THE ROD END HOUSINGS ARE AT RIGHT ANGLES TO STEERING KNUCKLE ARMS IN SIDE VIEW.



- 1 15 - 25 LB. FT.
- 2 35 - 45 LB. FT.
- 3 40 - 60 LB. FT. *
- 4 120 - 160 LB. FT.

* AFTER REACHING MIN. TORQUE REQUIRED, NUT MUST ALWAYS BE TIGHTENED FURTHER, NEVER BACK-OFF, TO INSERT COTTER PIN.

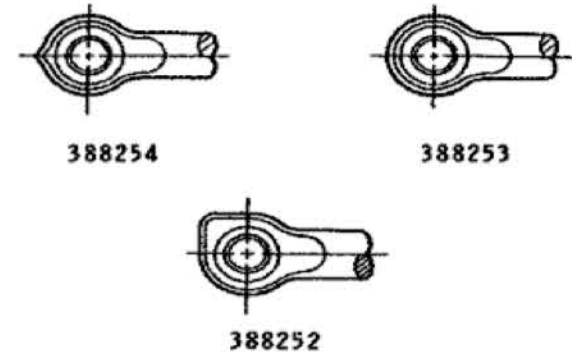
STEERING LINKAGE															
TITLE										FIRST USED		MANUAL SECTION		PAGE	
DATE MARCH 3, 1967										1968		3		110	
DR. BY Scott McDonald															
CHECKED JTBarnhart															
APPR. JTBarnhart															
3-29-68 A NOTE REVISED															
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
										SERIES B-C		PART NO. 398163			



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					10-30-67	E	NOTE REVISED								LOWER ARM, SPRING, SHOCK & KNUCKLE SHOP ASSY				
					8-24-67	D	TORQUE REVISED								DATE DECEMBER 9, 1966	1968		3	111
					6-19-67	C	WAS 385434-5								DR. BY R. S. Mc DONALD				
					4-24-67	B	USAGE REVISED								CHECKED M/S BARNHART				
					3-1-67	A	PART NUMBER ADDED								APPR. J. P. JENNINGS	REF. 3A-5F			
		1-10-68			F	WAS 98F74									DR. CK. R. W. GILG	35U58-59-63	B-C		398163

ARM ASSY IDENTIFIED BY R. & L.
R. ARM ASSY MUST BE INSTALLED
ON R.H. SIDE, L. ARM ASSY ON
L.H. SIDE

395438-R. H. - UPPER ARM ASM - FIRST TYPE
395439-L. H. - UPPER ARM ASM - FIRST TYPE
404096-R. H. - UPPER ARM ASM - SECOND TYPE (K)
404097-L. H. - UPPER ARM ASM - SECOND TYPE (K)



FRONT STABILIZER SHAFT IDENTIFICATION

FRONT STABILIZER SHAFT CHART			
PART NO.	DIA.	GROUP	MODELS
388252	.968	3G	ALL "B-C"
388254	1.031	35F58	54-56-6400

393257-BOLT
LARGE HEAD USED
FOR IDENTIFICATION
9422301-NUT

9427880-NUT
103386-PIN

393254 - SHIM (.030)
393255 - SHIM (.060)
393256 - SHIM (.120)
SHIM AS REQUIRED TO OBTAIN
CASTER & CAMBER SPEC AFTER
SUSPENSION IS ASSEMBLED TO
FRAME.
SHIM STACK TO BE $\frac{.840 \text{ MAX.}}{.120 \text{ MIN.}}$

382814-LINK
396797-RETAINER (BLACK)
380785-GROMMET

390197-BUSHING-FRONT
STABILIZER SHAFT (5) IDENTIFICATION RIBS.
SPLIT IN BUSHING MUST BE TOWARD FRONT OF CAR

394130-BRACKET-STABILIZER
9422107-SCREW

SEE STABILIZER
SHAFT CHART

380785-GROMMET
396797-RETAINER (BLACK)
9411638-L. NUT

STABILIZER SHAFT TO
BE CENTERED BETWEEN
BRACKETS

380785-GROMMET
396797-RETAINER (BLACK)
579847-SPACER
396797-RETAINER (BLACK)
380785-GROMMET

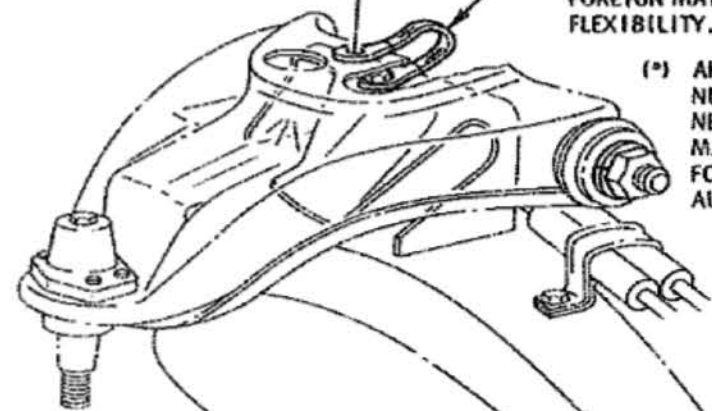
- 1 60 - 180 LB. IN.
- 2 10 - 15 LB. FT.
- 3 40 - 60 LB. FT. (*)
- 4 50 - 65 LB. FT. - APPLY TORQUE WHILE CAR IS AT CURB LOAD HEIGHT
- 5 65 - 85 LB. FT.

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

9420415-SCREW
(EACH END OF STRAP)

6291659-STRAP ASSY-RADIO GROUND
STRAP MUST BE FREE OF PAINT OR ANY
FOREIGN MATERIAL TO PRESERVE
FLEXIBILITY.

(*) AFTER REACHING MINIMUM TORQUE REQUIRED,
NUT MUST ALWAYS BE TIGHTENED FURTHER,
NEVER BACKED OFF, TO INSERT COTTER PIN.
MAXIMUM AUDIT TORQUE NOT TO BE EXCEEDED
FOR RE-INSTALLATION OF COTTER PIN AFTER
AUDIT.



GROUND STRAP INSTALLATION
(R.H. SIDE SHOWN, L.H. SIDE SIMILAR)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					5-22-68	K	SECOND TYPE ADDED	K/MPB		5-23-67	E	HOLE REMOVED	J13/MPB									UPPER ARM, STABILIZER & RADIO GROUND STRAP				
					8-28-67	J	TORQUE NOTE ADDED	PL/DT		4-14-67	D	NOTE REMOVED	EM/MPB									DATE	1968		3	112
					8-21-67	H	388253 SHAFT REMOVED	J13/MPB		3-20-67	C	WAS 9418843-NUT	EM/MPB									DR. BY				
					8-10-67	G	NOTE ADDED	EM/MPB		3-1-67	B2	PART NUMBERS ADDED	EM/MPB									CHECKED				
					7-27-67	F	50-65 WAS 45-60 LB. FT.	J13/MPB		3-1-67	A	USAGE REVISED	EM/MPB									APPR.	REF. 3A - 3G - 35F58	SERIES		
																						35U58-59-63	B-C	PART NO.	398163	

1968 REAR SPRING USAGE BY MODEL

CHASSIS CODE		4B (STANDARD CAR)		M33 OR M40 (AUTOMATIC TRANS.)		801 OR F74 (POLICE OR EXPORT)		B07 (POLICE)		G51 (TRAILER HAULING)		CHASSIS CODE	
SERIES	MODEL	SYNCHROMESH TRANS. EXC. 38400 OR 38600		EXC. POLICE, EXPORT OR TRAILER HAULING								MODEL	SERIES
35400	39	397963	ID	397963	ID	397968	IA	NA		398897	IP	39	35400
	67	397964	IG	397964	IG	397968	IA	NA		398897	IP	67	
	69	397962	IJ	397962	IJ	397967	IK	NA		398897	IP	69	
	87	397962	IJ	397962	IJ	397967	IK	NA		398897	IP	87	
35600	39	397966	IC	397962	IJ	397968	IA	397970	IN	398897	IP	39	35600
	67	397966	IC	397964	IG	397968	IA	NA		398897	IP	67	
	69	397966	IC	397962	IJ	397967	IK	397970	IN	398897	IP	69	
	87	397966	IC	397962	IJ	397967	IK	397970	IN	398897	IP	87	
36400	39	397966	IC	397963	ID	397968	IA	397970	IN	398897	IP	39	36400
	69	397966	IC	397962	IJ	397967	IK	397970	IN	398897	IP	69	
	87	397966	IC	397962	IJ	397967	IK	397970	IN	398897	IP	87	
36600	39	397966	IC	397963	ID	397968	IA	NA		398897	IP	39	36600
	87	397966	IC	397962	IJ	397967	IK	NA		398897	IP	87	
38400	39	397965	IH	S		397968	IA	NA		398898	IS	39	38400
	57	397965	IH	S		397968	IA	NA		398898	IS	57	
	67	397965	IH	S		397968	IA	NA		398898	IS	67	
	69	397965	IH	S		397968	IA	NA		398898	IS	69	
38600	69	397965	IH	S		397968	IA	NA		398898	IS	69	38600

SPRINGS SHOULD BE USED EITHER LOW RANGE ON BOTH SIDES OF CAR, OR HIGH RANGE ON BOTH SIDES OF CAR.

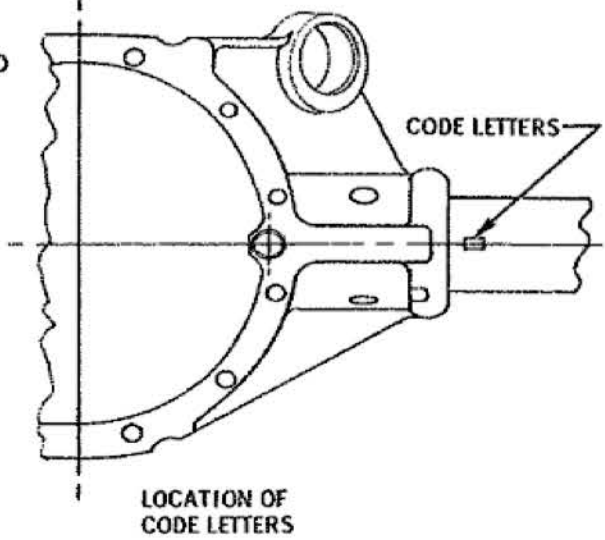
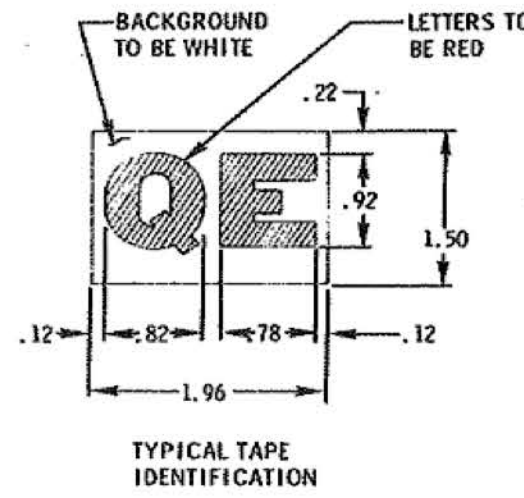
HIGH LOAD RANGE - PART NUMBER & CODE LETTERS
LOW LOAD RANGE - CIRCLE AROUND CODE LETTERS.

FOR SPRING DETAIL & TAPE IDENTIFICATION SEE DRAWING 396339

										TITLE		CHART - REAR SPRING USAGE							
										DATE	JAN. 9, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	4	PAGE	100	
										DR. BY	J. ACKERT	CHECKED		DON MALKIN					
										APPR.	S. L. [Signature]	REF.				SERIES	B-C	PART NO.	399793
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION		

STANDARD TYPE DIFFERENTIAL

SERIES & EQUIP.	AXLE ASSY	CODE	GEAR RATIO	GEARS	AXLE SUB ASSY	DIFF. CARRIER ASSY	AXLE SHAFT ASSY	BRAKE ASSY LH - RH	DRUM ASSY BRAKE	
	LAYOUT (35400) 398502 EXC. 35400 398501				CHART (35400) 398533 EXC. 35400 398532	CHART (35400) 394629 EXC. 35400 394838	CHART 400741		M. W.	OR K. H.
35400	398504	RA	2.78	39:14	398535	394630	400745	5468018 5468019	M. W.	OR
	398505	RC	3.08	40:13	398536	394631			398466-RH	K. H.
	398506	RE	3.23	42:13	398537	394632			398467-LH	383027
35600, 64, 66 EXC. J55 OR Y75 38400, 86 WITH J52	398512	QC	2.56	41:16	398539	398547	400743	5468018 5468019	M. W.	OR
	398513	QA	2.73	41:15	398540	394839			398466-RH	K. H.
	398514	QE	3.08	40:13	398541	394841			398467-LH	383027
35600, 64 WITH Y75	398524	QS	2.73	41:15	398540	394839	400747	5468018 5468019	M. W.	OR
	398525	QY	3.08	40:13	398541	394841			398472-RH	K. H.
38400, 86 EXC. J52 35600, 64, 66 WITH J55	398528	QQ	2.56	41:16	398539	398547	400743	5468022 5468023	M. W.	OR
	398529	QK	2.73	41:15	398540	394839			398468-RH	K. H.
	398530	QM	3.08	40:13	398541	394841			398469-LH	388153



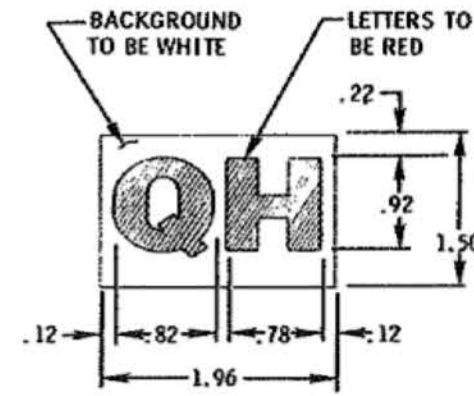
THE FOLLOWING LIST OF COMPONENT PARTS ARE REQUIRED FOR USE IN CONJUNCTION WITH AXLE SUB ASSEMBLY (**) OF SELECTED RATIO FROM THE CHART TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE OR ASSEMBLY PLANTS.

PART NO.	QUANTITY	DESCRIPTION
(**)	1	AXLE SUB ASSEMBLY - REAR - (SELECT RATIO FROM CHART)
SEE CHART	1	BRAKE ASSEMBLY-R. - REAR
SEE CHART	1	BRAKE ASSEMBLY-L. - REAR
400905	2	CABLE ASSEMBLY - REAR PARKING BRAKE
396471	2	GASKET - WHEEL BEARING
SEE CHART	2	SHAFT ASSEMBLY - AXLE
414999	8	BOLT - BRAKE TO AXLE
9418781	8	NUT - BRAKE TO AXLE
SEE CHART	2	DRUM ASSEMBLY - REAR - (MOTOR WHEEL)
(G) 566537	2	NUT - DRUM TO AXLE (WITH Y75)
516637	2	NUT - DRUM TO AXLE (GMAD PLANTS)
554544	4	NUT (SPRING) - DRUM TO AXLE (LANSING PLANT)
3820840	1	VENT ASSEMBLY - REAR AXLE

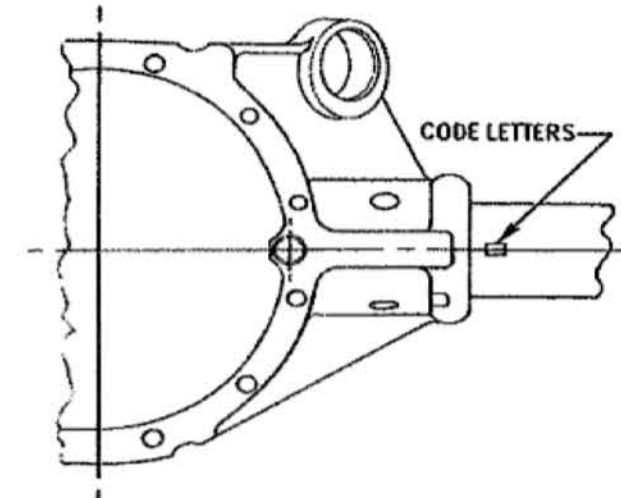
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	CHART-REAR AXLE USAGE	MANUAL SECTION	PAGE
					8-1-67	J	AXLE ASSY REM.														DATE OCT. 31, 1966	4	106
					7-26-67	H	WAS '126'														FIRST USED 1968	4	106
					7-26-67	G	3694290 REMOVED														CHECKED J. N. FAMES	4	106
					6-16-67	F	REVISED														APPR. H. J. B. PAGE	4	106
																					SERIES B-C	4	106
																					PART NO. 398500	4	106

LIMITED SLIP TYPE DIFFERENTIAL

SERIES & EQUIP.	AXLE ASSY	CODE	GEAR RATIO	GEARS	AXLE SUB ASSY	DIFF. CARRIER ASSY	AXLE SHAFT ASSY	BRAKE ASSY LH - RH	DRUM ASSY BRAKE		
	LAYOUT (35400) 398502 EXC. 35400 398501				CHART (35400) 398533 EXC. 35400 398532	CHART (35400) 394629 EXC. 35400 394838	CHART 400741		M. W.	OR	
35400	398544	RB	2.78	39:14	398576	394662	400745	5468018	M. W.	OR	
	398548	RD	3.08	40:13	398581	394663		5468019	398466-RH	K. H.	
	398549	RF	3.23	42:13	398582	394664			398467-LH	383027	
35600, 64, 66 EXC. J55 OR Y75 38400, 86 WITH J52	398555	QD	2.56	41:16	398584	398590	400743	5468018	M. W.	OR	
	398556	QB	2.73	41:15	398585	394878		5468019	398466-RH	K. H.	
	398557	QF	3.08	40:13	398586	394880			398467-LH	383027	
35600, 64 WITH Y75	398567	QT	2.73	41:15	398585	394878	400747	5468018 5468019	M. W.	OR	
	398568	QZ	3.08	40:13	398586	394880			398472-RH 398473-LH	386052	K. H.
38400, 86 EXC. J52 35600, 64, 66 WITH J55	398571	QR ^(H)	2.56	41:16	398584	398590	400743	5468022 5468023	M. W.	OR	
	398572	QL	2.73	41:15	398585	394878			398468-RH 398469-LH	388153	K. H.
	398573	QN	3.08	40:13	398586	394880					



TYPICAL TAPE IDENTIFICATION



LOCATION OF CODE LETTERS

THE FOLLOWING LIST OF COMPONENT PARTS ARE REQUIRED FOR USE IN CONJUNCTION WITH AXLE SUB ASSEMBLY (**) OF SELECTED RATIO FROM THE CHART TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE OR ASSEMBLY PLANTS.

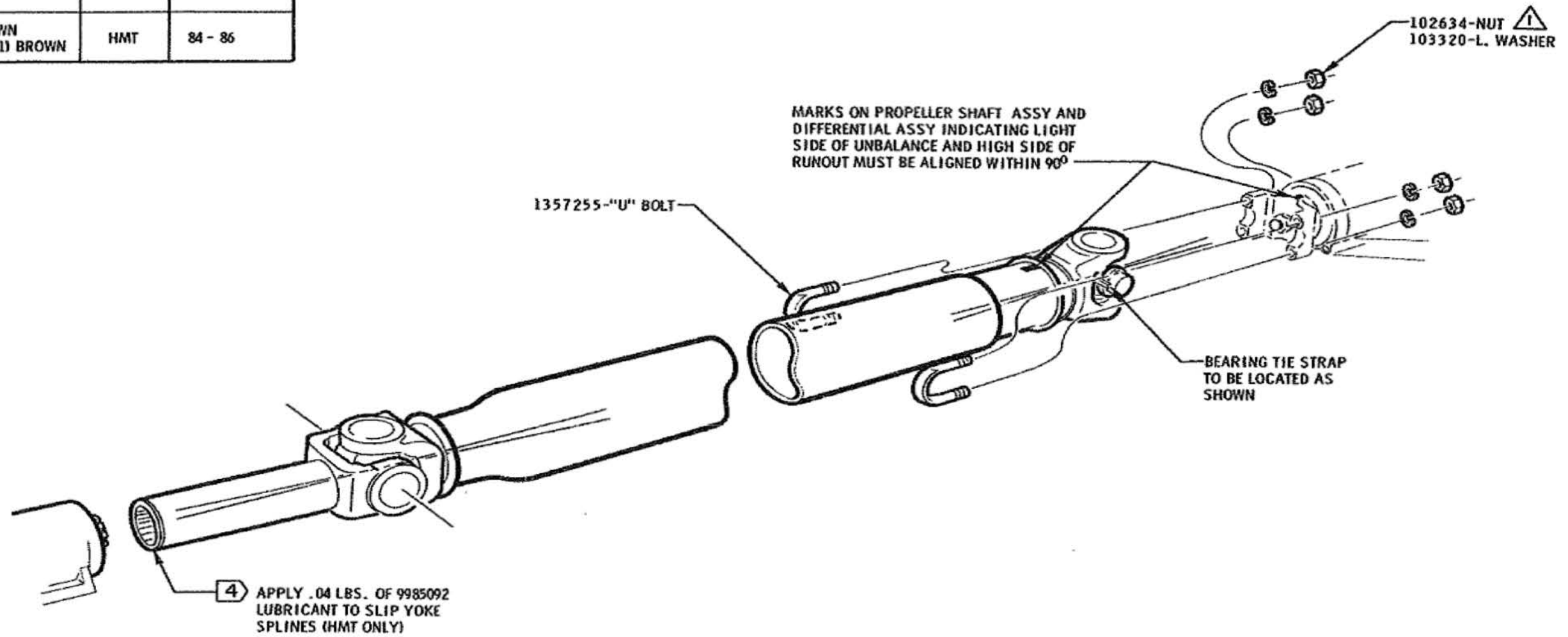
PART NO.	QUANTITY	DESCRIPTION
(**)	1	AXLE SUB ASSEMBLY - REAR - (SELECT RATIO FROM CHART)
SEE CHART	1	BRAKE ASSEMBLY-R. - REAR
SEE CHART	1	BRAKE ASSEMBLY-L. - REAR
400905	2	CABLE ASSEMBLY - REAR PARKING BRAKE
396471	2	GASKET - WHEEL BEARING
SEE CHART	2	SHAFT ASSEMBLY - AXLE
414999	8	BOLT - BRAKE TO AXLE
9418781	8	NUT - BRAKE TO AXLE
SEE CHART	2	DRUM ASSEMBLY - REAR - (MOTOR WHEEL)
^(G) 566537	2	NUT - DRUM TO AXLE (WITH Y75)
516637	2	NUT - DRUM TO AXLE (GMAD PLANTS)
554544	4	NUT (SPRING) - DRUM TO AXLE (LANSING PLANT)
3820840	1	VENT ASSEMBLY - REAR AXLE

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
8-1-67 J WAS SHEET 4 2-15-67 H AXLE ASSY. BGM. 4-26-67 G WAS '87' 4-26-67 G 3694290 REMOVED 6-16-67 F										J 11-2-67 E SERIES ADDED K 1-16-67 D NOTE REMOVED L 1-16-67 O WAS 389711 M 1-16-67 E WAS 394295 N 1-16-67 H COLUMN REVISED									
TITLE DATE OCT. 31, 1966 DR. BY DON MALKIN CHECKED IN TAMES APPR. H. J. B. 1966										CHART-REAR AXLE USAGE FIRST USED 1968 OLDSMOBILE PRODUCT INFORMATION MANUAL MANUAL SECTION 4 PAGE 107 SERIES B-C PART NO. 398500									

PROPELLER SHAFT ASSY USAGE CHART

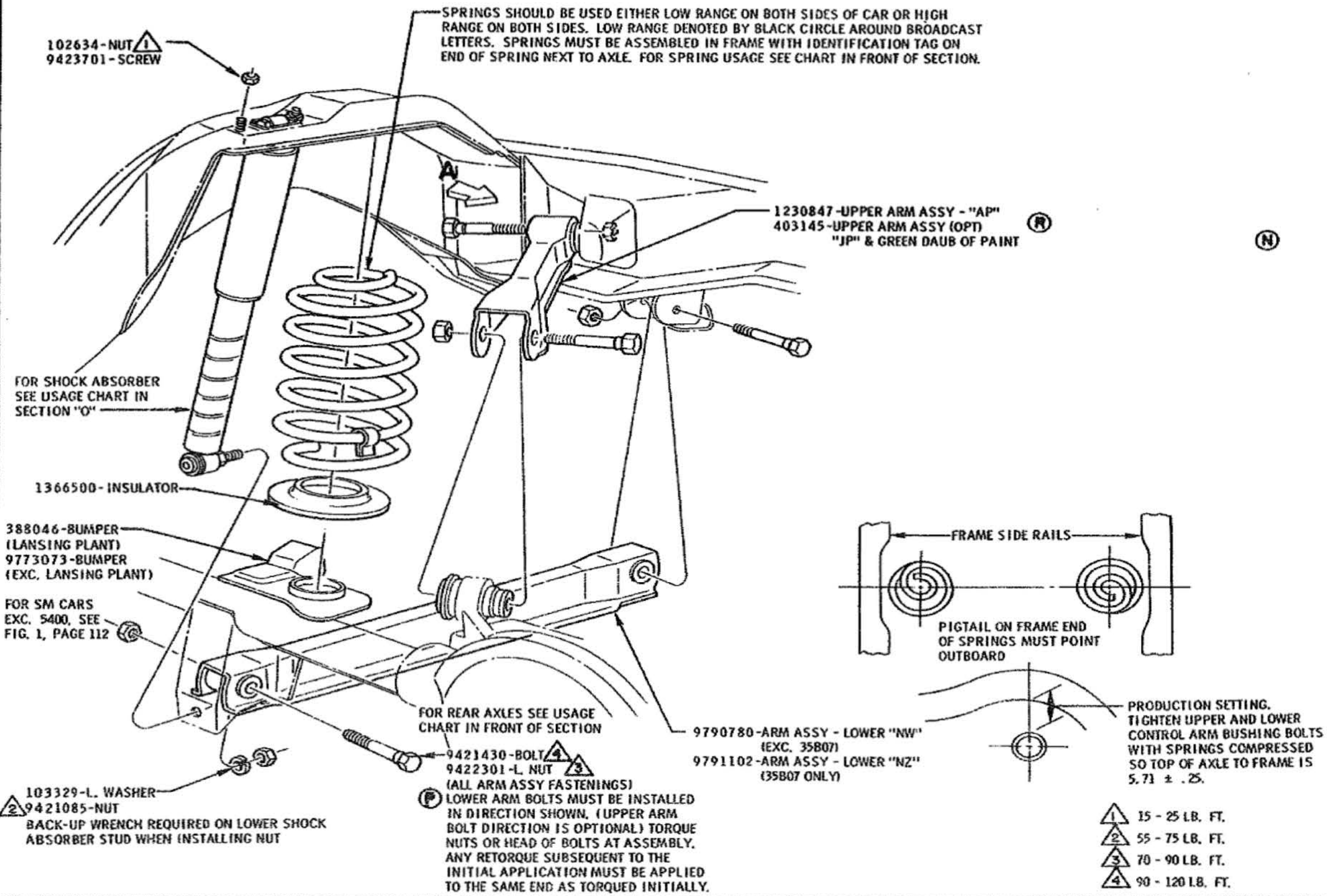
SHAFT ASSY - CODE	TRANS.	USAGE
5697508 - (2) YELLOW	SMT	5400
5697512 - (1) BLUE, (1) PINK	SMT	56 - 64 - 6600
5699782 - (1) YELLOW (1) WHITE	JT	5400
7803980 - (2) BLACK	HMT	5400
5699785 - (1) RED, (1) PURPLE 396376 - (OPTIONAL)	HMT	56 - 64 - 6600
7803842 - (1) WHITE (1) BROWN 396377 - (OPT.) (1) WHITE (1) BROWN	HMT	84 - 86

©



⚠ 12 - 16 LB. FT. TORQUE ON "U" BOLT NUTS CRITICAL

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
															PROPELLER SHAFT	1968		4	110
					9-1-67	C	CODE REVISED								DR. BY R.S. McDONALD				
					6-23-67	B	WAS 5699783								CHECKED MT Barnhart				
					5-23-67	A	WAS 5699784-SHAFT								APPR. J. L. ...	REF. 4A4			
															APPR. J. ...	35M33, M40, M41	SERIES B-C	PART NO. 398163	



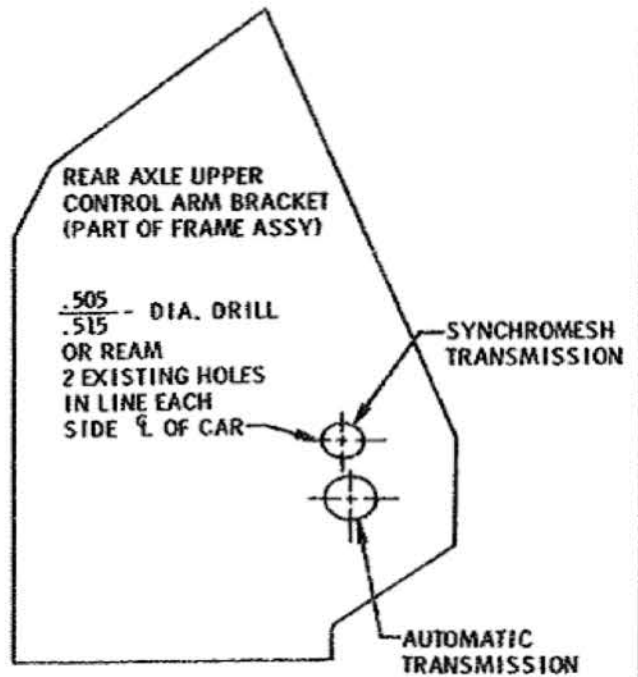
STANDARD DIFFERENTIAL

FILL TO BOTTOM OF FILLER PLUG HOLE WITH 9985035 LUBRICANT:
5400- 3.69 PINTS
EXCEPT 5400- 5.32 PINTS

LIMITED SLIP DIFFERENTIAL

FILL TO BOTTOM OF FILLER PLUG HOLE WITH 9985169 LUBRICANT
5400- 3.69 PINTS
EXCEPT 5400- 5.32 PINTS

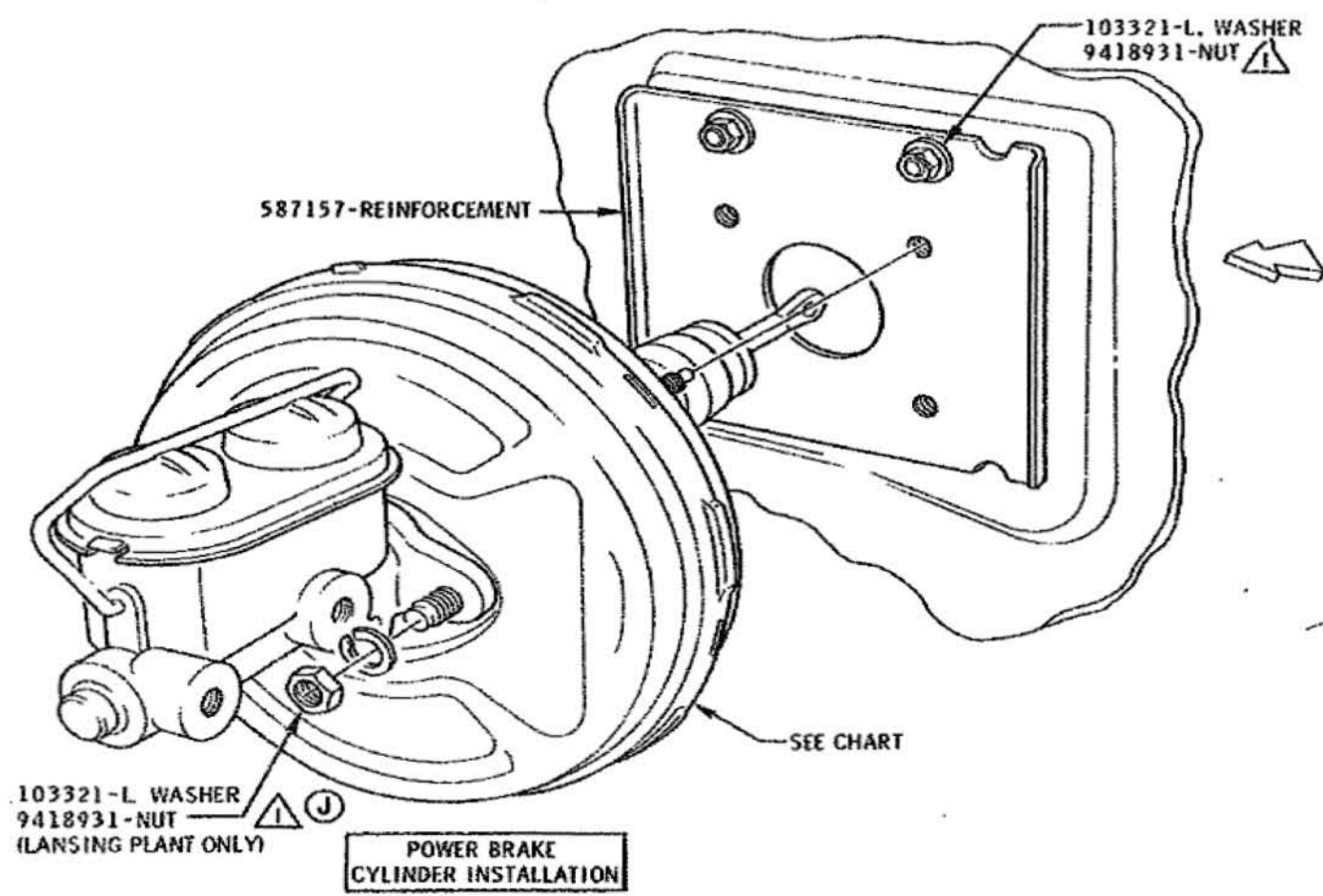
REINSTALL DIFFERENTIAL FILLER PLUG TO 25-35 LB. FT.



VIEW A

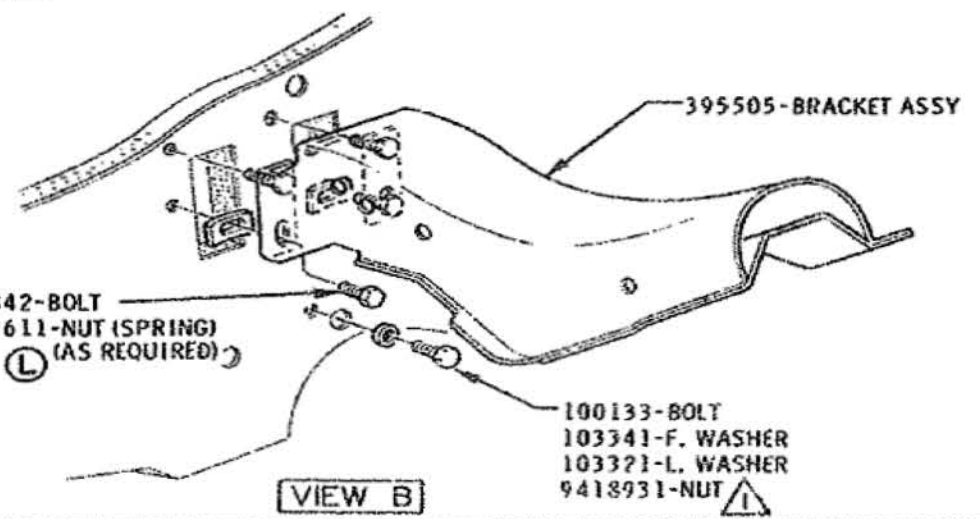
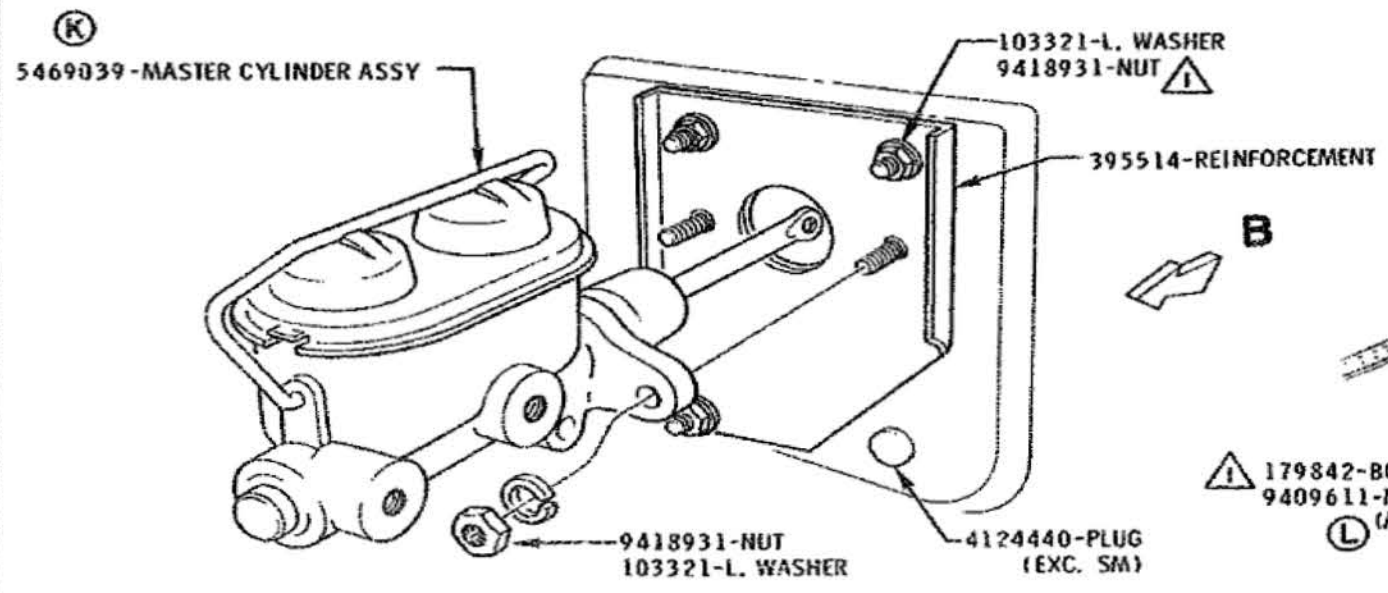
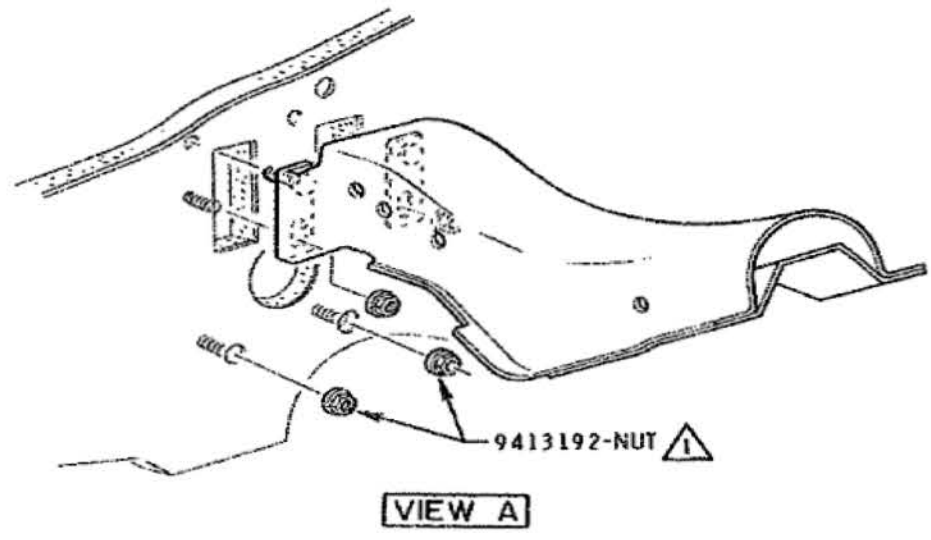
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	REAR SUSPENSION	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
5-14-68	R	PART NOS. & USAGE REVISED	JN	MS	8-23-67	K	WAS 385099	EM	MS	7-19-67	E	PART NO. ADDED	EG	MS	DATE DECEMBER 1, 1966		1968		4	111	
4-22-68	P	NOTE REVISED	ER	MS	8-23-67	J	NOTE REVISED	EM	MS	7-6-67	D	OPTIONS ADDED	EG	MS	DR. BY SCOTT Mc DONALD						
2-6-68	N	PART NO. ADDED	ER	MS	8-18-67	H	NOTE REVISED	ER	MS	6-15-67	C	CODES REVISED	EM	MS	CHECKED BY J. Barnhart						
1-13-68	M	OPT. PART NOS. REMOVED	JN	MS	7-27-67	G	FILL NOTE ADDED	ER	MS	6-13-67	B	BOLT ADDED	EM	MS	APPR. J. L. Smith						
8-28-67	L	TORQUE REVISED	J13	DT	7-27-67	F	DIMENSION REVISED	ER	MS	3-20-67	A	OPTION ADDED	ER	MS	APPR. R. W. R. R.						

SERIES B-C PART NO. 398163



POWER BRAKE CYLINDER CHART (LANSING PLANT)			POWER BRAKE CYLINDER ASSEMBLY CHART (G.M.A.D. PLANTS)	
POWER HEAD ASSY	MASTER CYL.	GROUP	POWER CYL. ASSY	GROUP
5460414 (CODE UC) ★	5465139 ★	5G &	5452493 (CODE UC) ★	35J50
401608 (CODE UC) (OPT.) ★★	397979 (OPT.) ★★	35J50		
397981 (CODE KX) ★★	397981 ★★	35J52 35J55	400224 (CODE KX) ★★	35J52

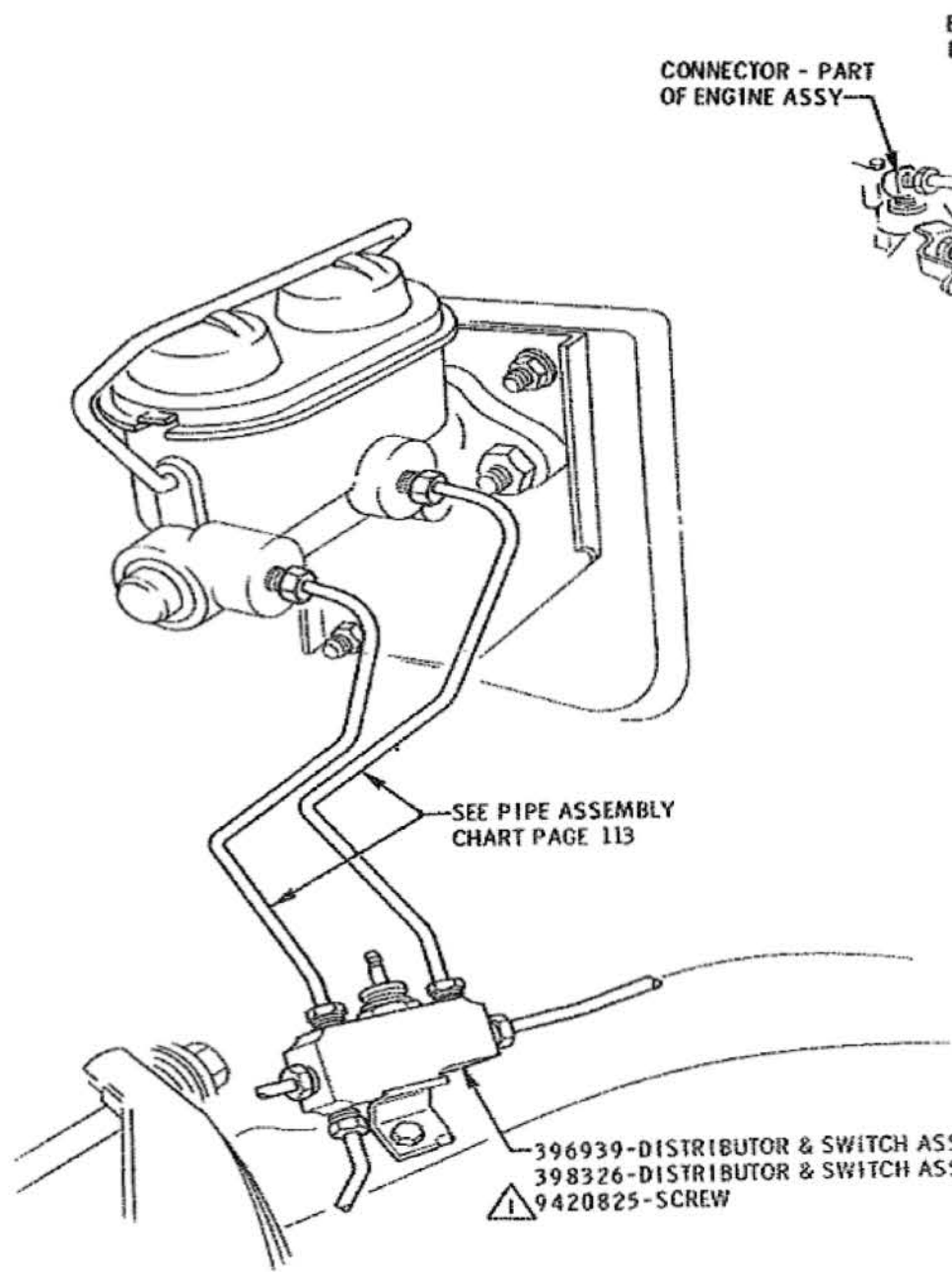
★ DELCO MORAINÉ
★★ BENDIX



⚠ 20 - 28 LB. FT.

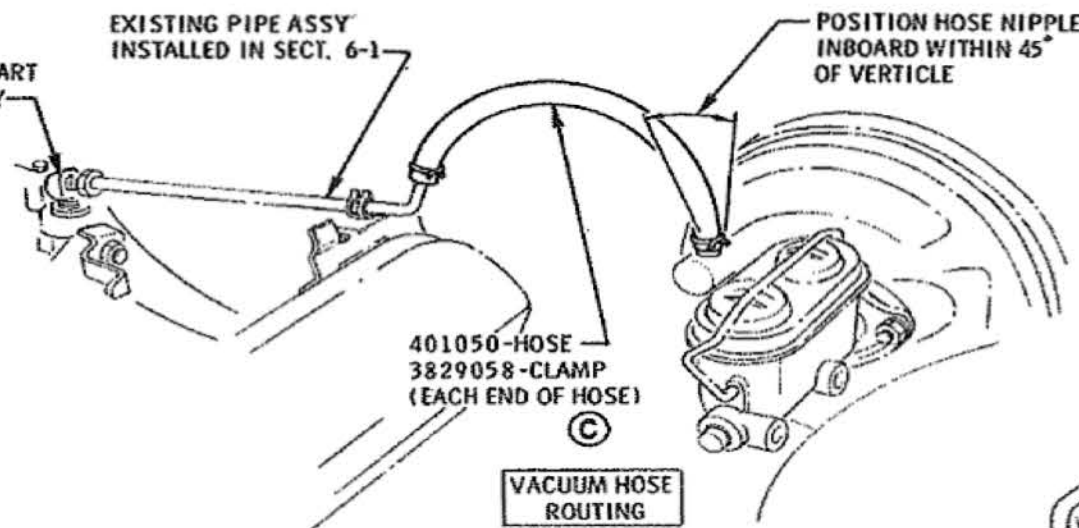
DATE	SYN	REVISION	DR.	CK.	DATE	SYN	REVISION	DR.	CK.	DATE	SYN	REVISION	DR.	CK.	DATE	SYN	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					8-21-67	K	WAS 5452478-CYLINDER A.	ER	MS	6-12-67	E	35J55 USAGE ADDED	ER	MS								DATE DECEMBER 8, 1966	1968		5	110
					8-3-67	J	TORQUE ADDED	ER	MS	5-15-67	D	FASTENING REVISED	ER	MS								DR. BY SCOTT McDONALD				
					7-21-67	H		ER	MS	5-3-67	C2	NOTE REVISED	ER	MS								CHECKED BY Scott Hart				
					7-21-67	G	WAS 397979	ER	MS	2-23-67	B	WAS 396789	ER	MS								APPR. G.M. Wrayfield	REF. 5C, 5E, 5G, 35J50, 35J52, 35J56, 35M31, 35M32, 41, 97-95	SERIES B-C		
5-24-68	L	NOTE ADDED TO NUT	ER	MS	6-12-67	F	35J56 M. CYL. REMOVED	ER	MS	2-11-67	A	BAILS REVISED	ER	MS												

PART NO. 398163

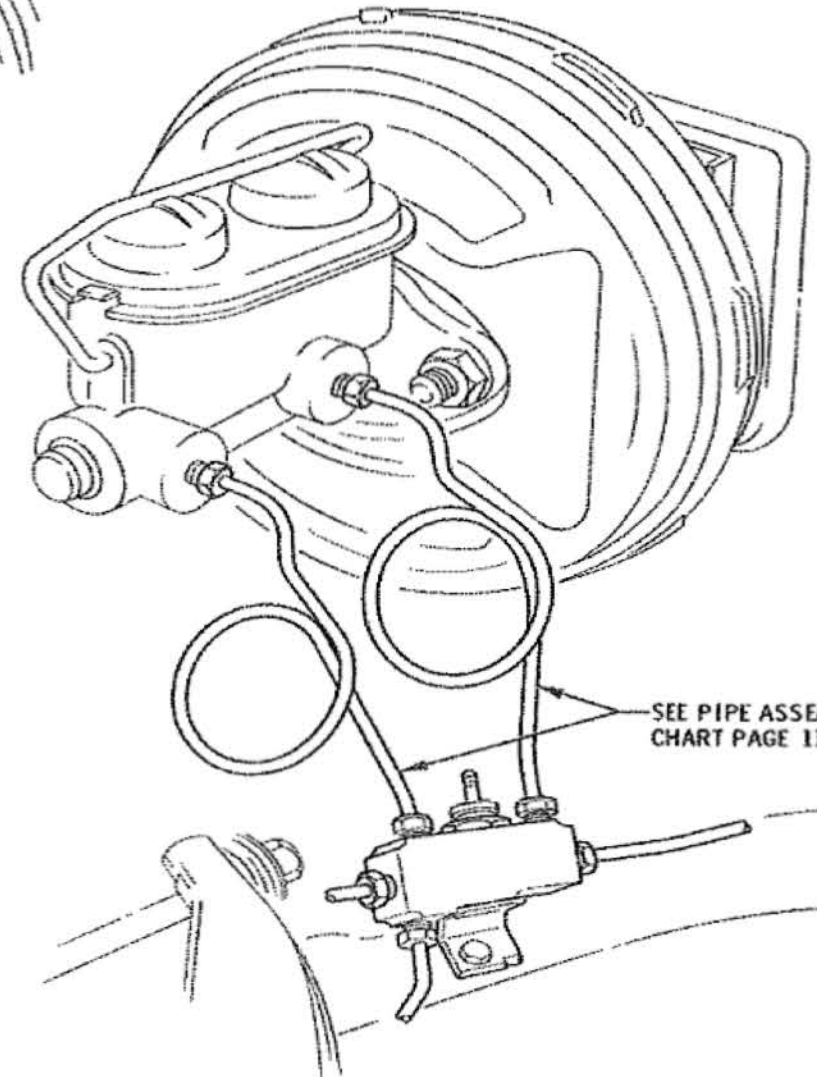


**PIPE INSTALLATION
STANDARD BRAKE**

- 396939-DISTRIBUTOR & SWITCH ASSY
- 398326-DISTRIBUTOR & SWITCH ASSY (OPT.)
- 9420825-SCREW



**VACUUM HOSE
ROUTING**



**PIPE INSTALLATION
POWER BRAKE**

LEAK TEST (DIFFERENTIAL PRESSURE TYPE EQUIPMENT)

TEST MUST BE MADE ON REAR CHAMBER ONLY WITH ALL HYDRAULIC COMPONENTS ASSEMBLED TO CAR AND CONNECTIONS COMPLETED, DIFFERENTIAL PRESSURE NEEDLE MUST ATTAIN A STATIC POSITION FOR A MINIMUM OF 5 SECONDS WHILE THE REAR SYSTEM IS SUBJECTED TO 1800-2000 P. S. I.

IF PEDAL JACK IS USED IN ADDITION TO THE DIFFERENTIAL PRESSURE TYPE EQUIPMENT, THE FORCE IMPOSED ON THE PEDAL MUST NOT CAUSE A HYDRAULIC PRESSURE IN THE BRAKE HYDRAULIC SYSTEM THAT EXCEEDS 2000 P. S. I.

WITH 2000 P. S. I. IN SYSTEM - DISTRIBUTOR AND SWITCH ASSEMBLY ELECTRICAL CIRCUIT TO BE CHECKED AND CIRCUIT MUST BE OPEN.

DISTRIBUTOR AND SWITCH ASSEMBLY MUST BE 100% FUNCTIONALLY INSPECTED. ELECTRICAL CIRCUIT MUST CLOSE WHEN 300 P. S. I. DIFFERENTIAL PRESSURE IS APPLIED TO EITHER END OF ASSEMBLY AND MUST OPEN WHEN PRESSURE IS REMOVED.

COMPLETED CAR MUST PASS FOUR WHEEL BRAKE TEST AS FOLLOWS:

1. DRIVE CAR AT 4 MPH (10 MPH MAXIMUM)
2. APPLY BRAKES TO DECELERATE CAR AT 12 FT/SEC² (15 FT/SEC² MAXIMUM)
3. THERE MUST BE A MINIMUM OF 200 LBS. BRAKING FORCE AT EACH WHEEL.

FILL MASTER CYLINDER RESERVOIRS TO 1/4 ± 1/8 INCH FROM TOP MEASURED AT REAR EDGE WITH .846 PINTS OF 9985013 BRAKE FLUID.

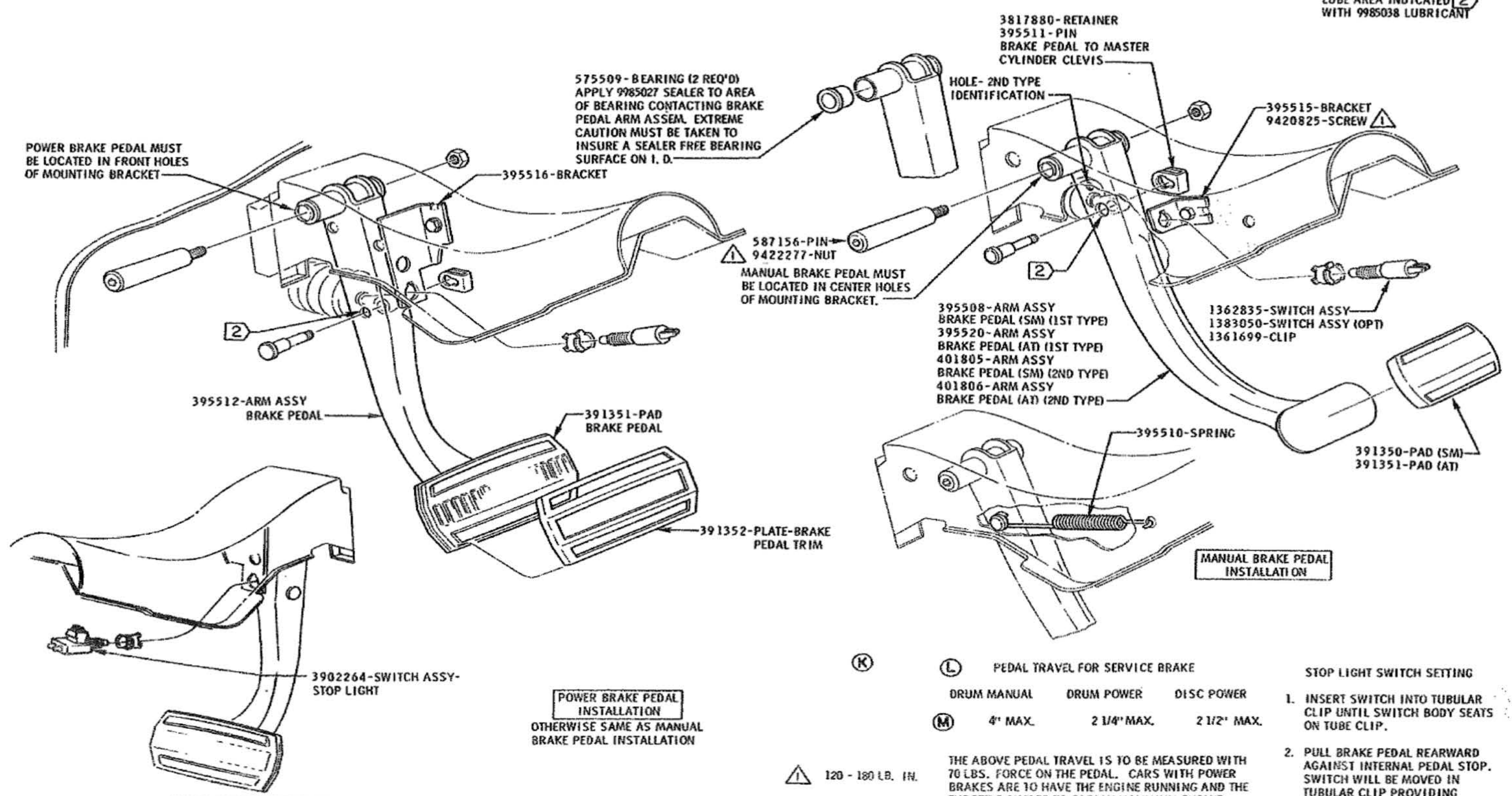
(EXC. 35J52)

120 - 180 LB. IN.

REVISIONS										TITLE					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
					7-19-67	D	WAS 10 SECONDS								
					6-6-67	C	REVISED & REDRAWN			DATE DECEMBER 5, 1966					
					5-16-67	B	NOTE ADDED			DR. BY Scott H. Damm Lo					
					3-22-67	A	BAILS REVISED			CHECKED JMB					

MASTER CYLINDER PIPES AND VACUUM HOSE ROUTING										
FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE				
1968				5		III				
REF. 56				SERIES		PART NO.				
				B-C		398163				
85J50 - J52										

LUBE AREA INDICATED WITH 9985038 LUBRICANT



POWER BRAKE PEDAL INSTALLATION
OTHERWISE SAME AS MANUAL BRAKE PEDAL INSTALLATION

MANUAL BRAKE PEDAL INSTALLATION

35K30 SWITCH INSTALLATION

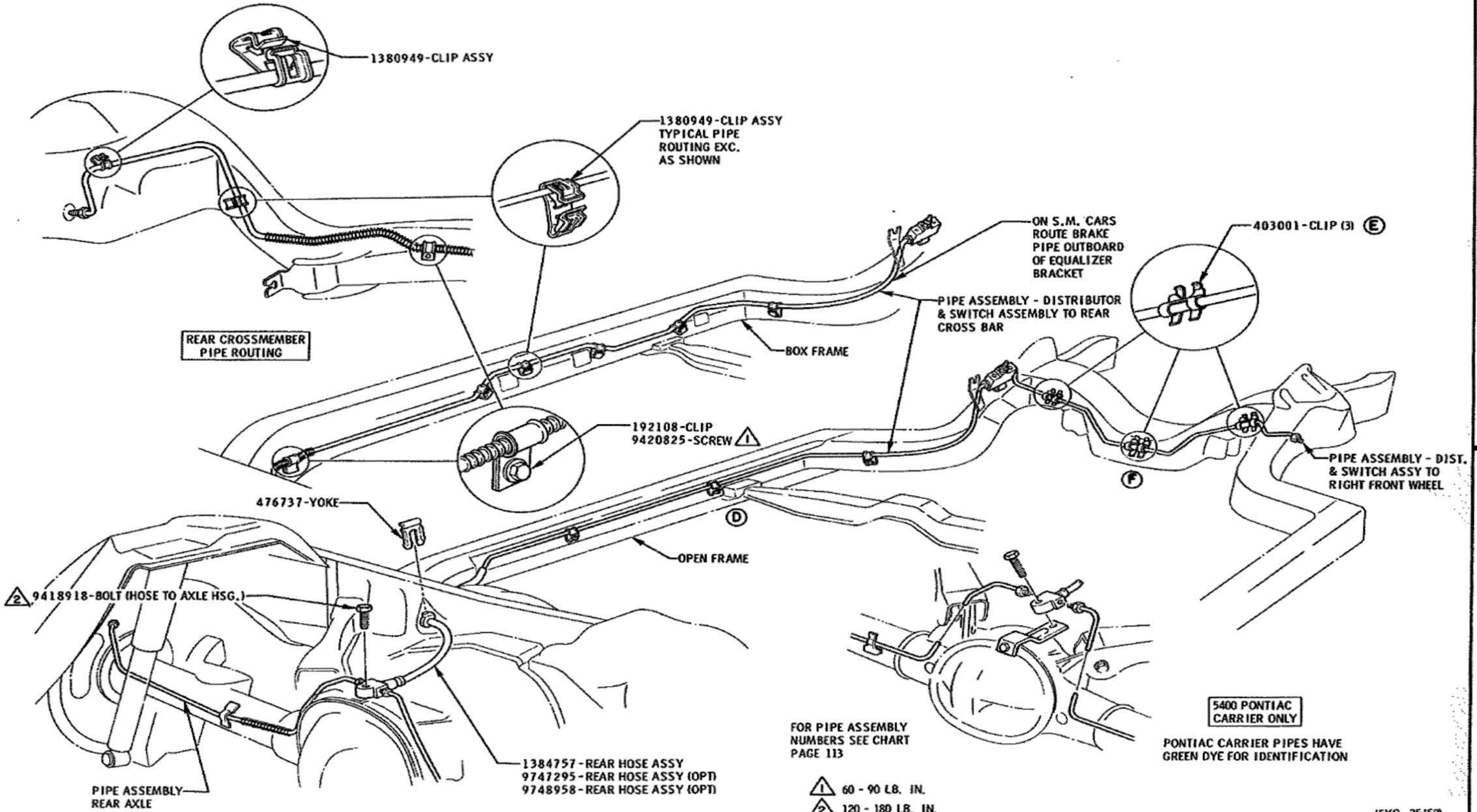
(K)	(L)	PEDAL TRAVEL FOR SERVICE BRAKE		
		DRUM MANUAL	DRUM POWER	DISC POWER
(M)		4" MAX.	2 1/4" MAX.	2 1/2" MAX.

- STOP LIGHT SWITCH SETTING**
1. INSERT SWITCH INTO TUBULAR CLIP UNTIL SWITCH BODY SEATS ON TUBE CLIP.
 2. PULL BRAKE PEDAL REARWARD AGAINST INTERNAL PEDAL STOP. SWITCH WILL BE MOVED IN TUBULAR CLIP PROVIDING PROPER ADJUSTMENT.

▲ 120 - 180 LB. IN.

THE ABOVE PEDAL TRAVEL IS TO BE MEASURED WITH 70 LBS. FORCE ON THE PEDAL. CARS WITH POWER BRAKES ARE TO HAVE THE ENGINE RUNNING AND THE THROTTLE CYCLED TO OBTAIN MAXIMUM ENGINE VACUUM.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					3-11-68	K	NOTE REMOVED			8-21-67	E	LUB. LOCATION REVISED	J-13	MPS							PEDAL MOUNTING AND SWITCHES				
					11-15-67	J	9787705-SW. REMOVED	PL	MPS	8-21-67	D	2ND TYPE ADDED	EJR	MPS							DATE DECEMBER 5, 1966	1968		5	112
					10-19-67	H	NOTE FIXED-CENTER WAS REAR	SM	MPS	7-19-67	C	TORQUE SPECS. ADDED	SM	MPS							DR. BY S. McDONALD				
5-8-68	M	"MAX." ADDED	SM	MPS	8-28-67	G	LUB. LOCATION REV.	J-13	DT	5-16-67	B	NOTE REMOVED	SM	MPS							CHECKED/MPS and Lant	REF. 5C 12E			
3-25-68	L	NOTE ADDED	SM	MPS	8-23-67	F	TORQUE REMOVED	SM	MPS	5-8-67	A	VIEW REVISED	SM	MPS							APPR. J. P. Loggins	35J50-J52 35M31-M40-M41	SERIES B-C	PART NO. 398163	

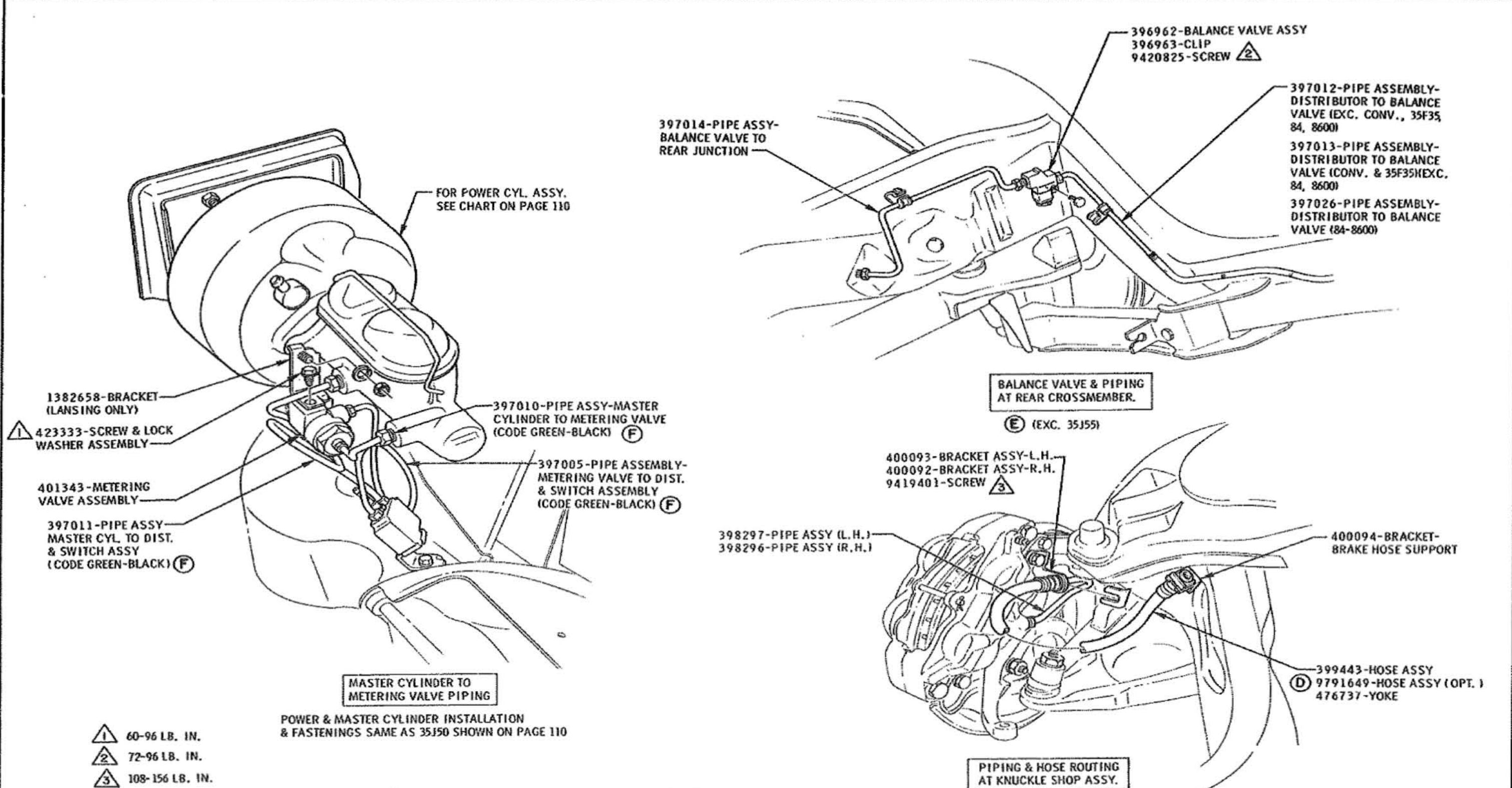


FOR PIPE ASSEMBLY
NUMBERS SEE CHART
PAGE 113

- (1) 60 - 90 LB. IN.
- (2) 120 - 180 LB. IN.

(EXC. 35152)

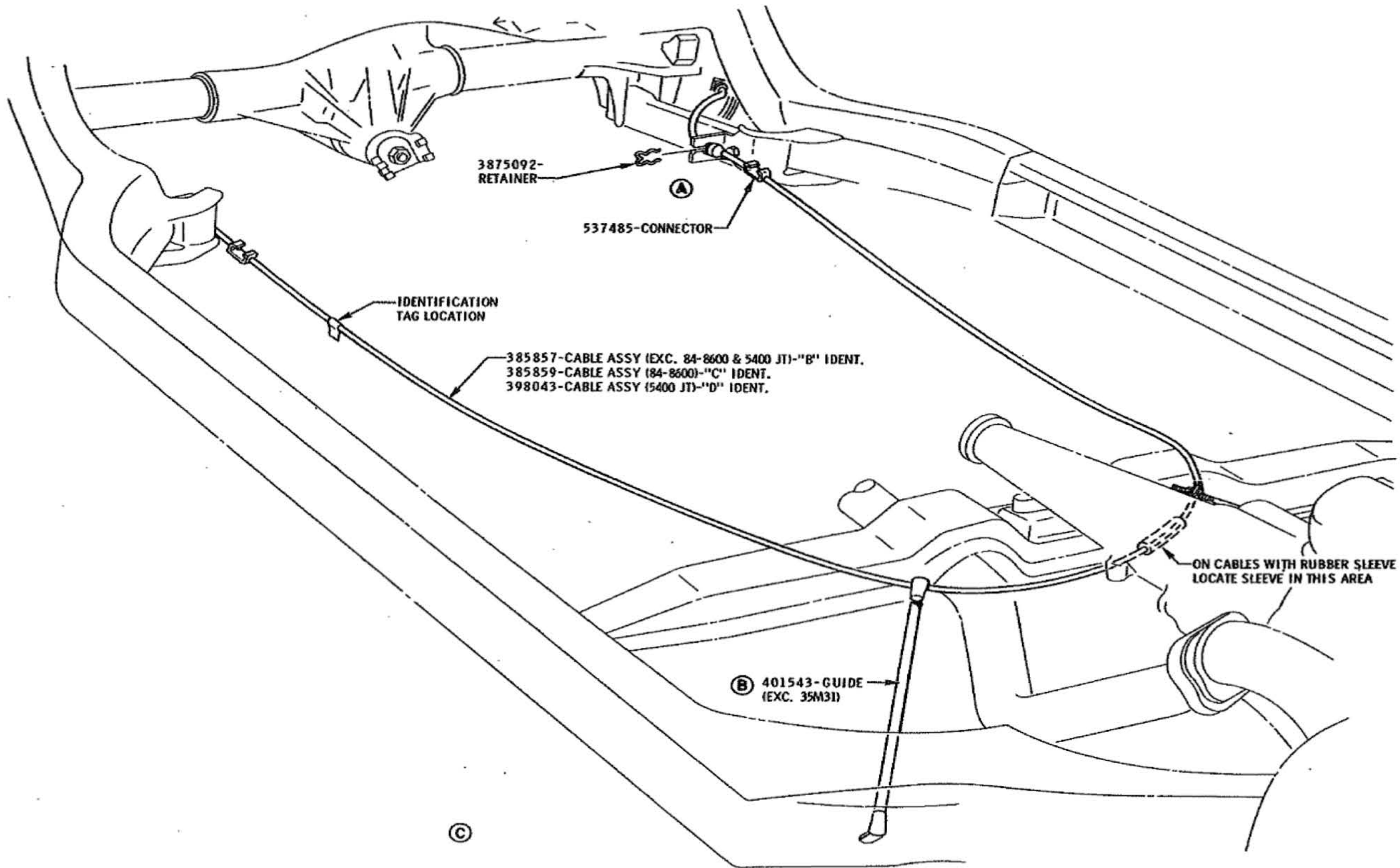
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					1-9-68	E	WAS 3753771-CLIP ASSY	SKR	MB												PIPE ROUTING AND CLIPS	1968		5	114
					12-13-67	D	CLIP REAPPLICATION	SKR	MB												DATE DECEMBER 6, 1966				
					7-14-67	C	PART NO. ADDED	J13	MB												DR. BY SCOTT Mc DONALD				
					3-21-67	B	WAS 9419995 SCREW	SKR	MB												CHECKED MB Barnhart				
					1-9-68	F	WAS 397642-CLIP ASSY	SKR	MB												APPR. J. J. Barnhart				
					3-20-67	A	PART NOS. REVISED	SKR	MB												REF.	SERIES	PART NO.		
																						B-C	398163		



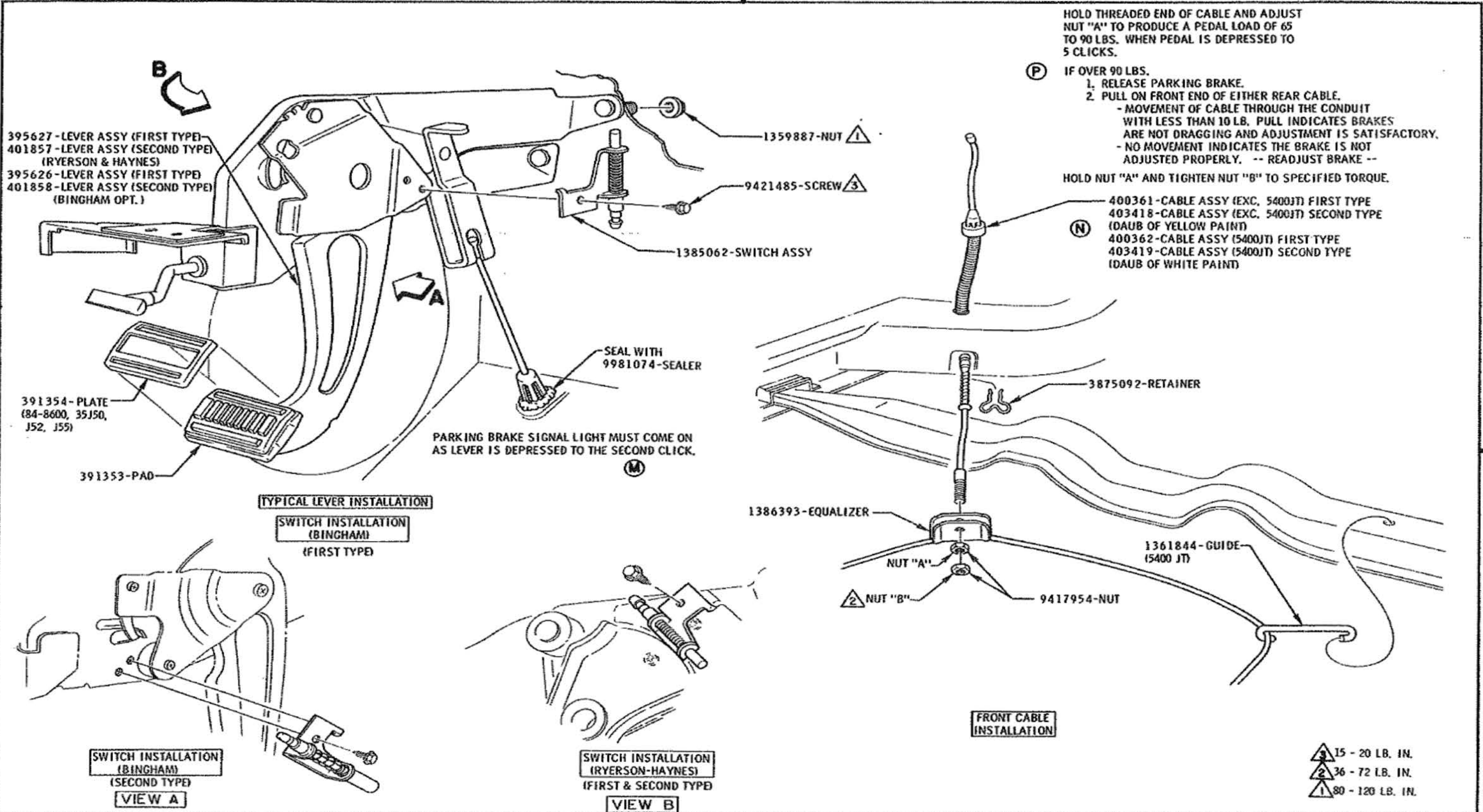
- ① 60-96 LB. IN.
- ② 72-96 LB. IN.
- ③ 108-156 LB. IN.

BALANCE OF INFORMATION
SAME AS STANDARD CAR

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE				
				6-19-67	E	"EXC. 35J55" ADDED							DISC BRAKE HOSES, PIPES & VALVES.				
				6-2-67	D	OPT. HOSE ADDED							DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
				5-18-67	C	WAS 1382656							MARCH 14, 1967	1968			
				5-15-67	B	L. WASHER ADDED							DR. BY	REF.	SERIES	PART NO.	
				3-22-67	A	BAIL REVISED							ED J. ROE				
				7-20-67	F ₃	CODES REVISED							CHECKED				



DATE			REVISION			DR. CK.			DATE			REVISION			DR. CK.			DATE			REVISION			DR. CK.			DATE			REVISION			DR. CK.											
						8-8-67 C NOTE REMOVED						14, 1968						TITLE			REAR PARKING BRAKE CABLES			FIRST USED			1968			OLDSDMOBILE PRODUCT			MANUAL SECTION			PAGE								
						6-20-67 B WAS 388297-CABLE						25, 1968						DR. BY			SCOTT McDONALD									5			117											
						4-6-67 A CABLE FASTENING REVISED						24, 1968						CHECKED			M. Barnhart																							
																		APPR.			J. R. ...																							
																		REF.															SERIES			B-C			PART NO.			398163		



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
4-24-68	P	NOTE REVISED	JM	MY	1-4-68	K	SECOND TYPE ADDED	J13	MY	8-9-67	E	TORQUES ADDED	4/2	MY		PARKING BRAKE LEVER, SWITCH, AND FRONT CABLE	NOVEMBER 23, 1968	1968	5	118	
3-27-68	N	WAS 401859 (401860 (2ND TYPE))	JM	MY	12-8-67	J	WAS 9981041 SEALER	J13	MY	8-9-67	D	NOTE ADDED	4/2	MY							
2-26-68	M	WAS FIRST CLICK	JM	MY	9-19-67	H ₂	SECOND TYPE ADDED	J13	MY	6-19-67	C	35J55 USAGE ADDED	4/2	MY							
2-16-68	L	PEDAL LOAD WAS 55-65 LBS.	JM	MY	9-19-67	G	WAS 625G437 EQUALIZER	J13	MY	3-20-67	B	WAS 1383422	4/2	MY							
			JM	MY	8-18-67	F	WAS SECOND CLICK	4/2	MY	3-6-67	A	WAS 385854 8988789	4/2	MY							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.						

REF. 5D	12L	SERIES	PART NO.
35J50-J52	35M31	B-C	398163

1968 PRODUCTION CAMSHAFTS

CAMSHAFT ASSY	CAMSHAFT	INDEX	ENGINE USAGE	VALVE LIFT	VALVE TIMING	CAMSHAFT IDENTIFICATION		CASTING	
						SHAFT GRIND	COLOR CODE	IDENT.	PART NO.
400084	400085	ZK	654 EXC. W31	INT. .400 EXH. .400	T.D.C. 160° 110° 20° 108° 54° 54° 108° EXH. INT.		ONE BLUE STRIPE *ONE ORANGE & ONE BLUE STRIPE		
400117	400118	2AF	657 REG. 664 REG. (N)	INT. .435 EXH. .435	T.D.C. 120° 110° 24° 108° 38° 38° 108° EXH. INT.		ONE GREEN STRIPE *ONE GREEN & ONE ORANGE STRIPE	NONE	401348
402486	402487	28P	658 288L & 488L A.T. EXC. W30	INT. .440 EXH. .440	T.D.C. 220° 110° 20° 108° 60° 68° 108° EXH. INT.		THREE ORANGE STRIPES (P)		
400165	400166	151-0	657 L76 664 W34 (N)	INT. .472 EXH. .472	T.D.C. 280° 112° 33° 118° 81° 74° 118° EXH. INT.		TWO WHITE STRIPES *TWO WHITE & ONE ORANGE STRIPES	389410	
393859	393854	35-N	658 4 88L S.M. EXC. W30	INT. .472 EXH. .472	T.D.C. 300° 118° 28° 110° 76° 78° 110° EXH. INT.		2 BLUE STRIPES		
402194	402195	57-AA	654 4 88L S.M. W31	INT. .474 EXH. .474	T.D.C. 40° 114° 42° 112° 88° 86° 112° EXH. INT.		ONE WHITE STRIPE (K)	2 CAST RINGS	
402569	402570	57-AB	658 W30 (M)	INT. .475 EXH. .475	T.D.C. 110° 50° 52° 110° 92° 96° 110° EXH. INT.		TWO GREEN STRIPES		

*DENOTES MIXED PROD.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.															
12-27-67	P	WAS TWO STRIPES	DL		11-1-67	K2	VIEW REVISED	DL		7-26-67	E	USAGE REVISED	DL		5-18-67	D	VIEW REVISED	DL		5-18-67	D	COLUMN REVISED	DL		5-26-67	B	COLUMN REVISED	DL		4-27-67	A	LINE REVISED	DL		11-1-67	J	USAGE REVISED	DL		11-1-67	N2	USAGE REVISED	DL		11-1-67	M	WAS 397328	DL		11-1-67	L	402486 ADDED	DL	

CHART - CAMSHAFT IDENTIFICATION

TITLE: CHART - CAMSHAFT IDENTIFICATION
 DATE: MARCH 14, 1967
 DR. BY: D. J. SCOTT
 CHECKED: D. LA FOND
 APPR.:

FIRST USED: 1968
 REF.:

OLDSMOBILE PRODUCT INFORMATION MANUAL
 MANUAL SEC. 6-0
 PAGE 100

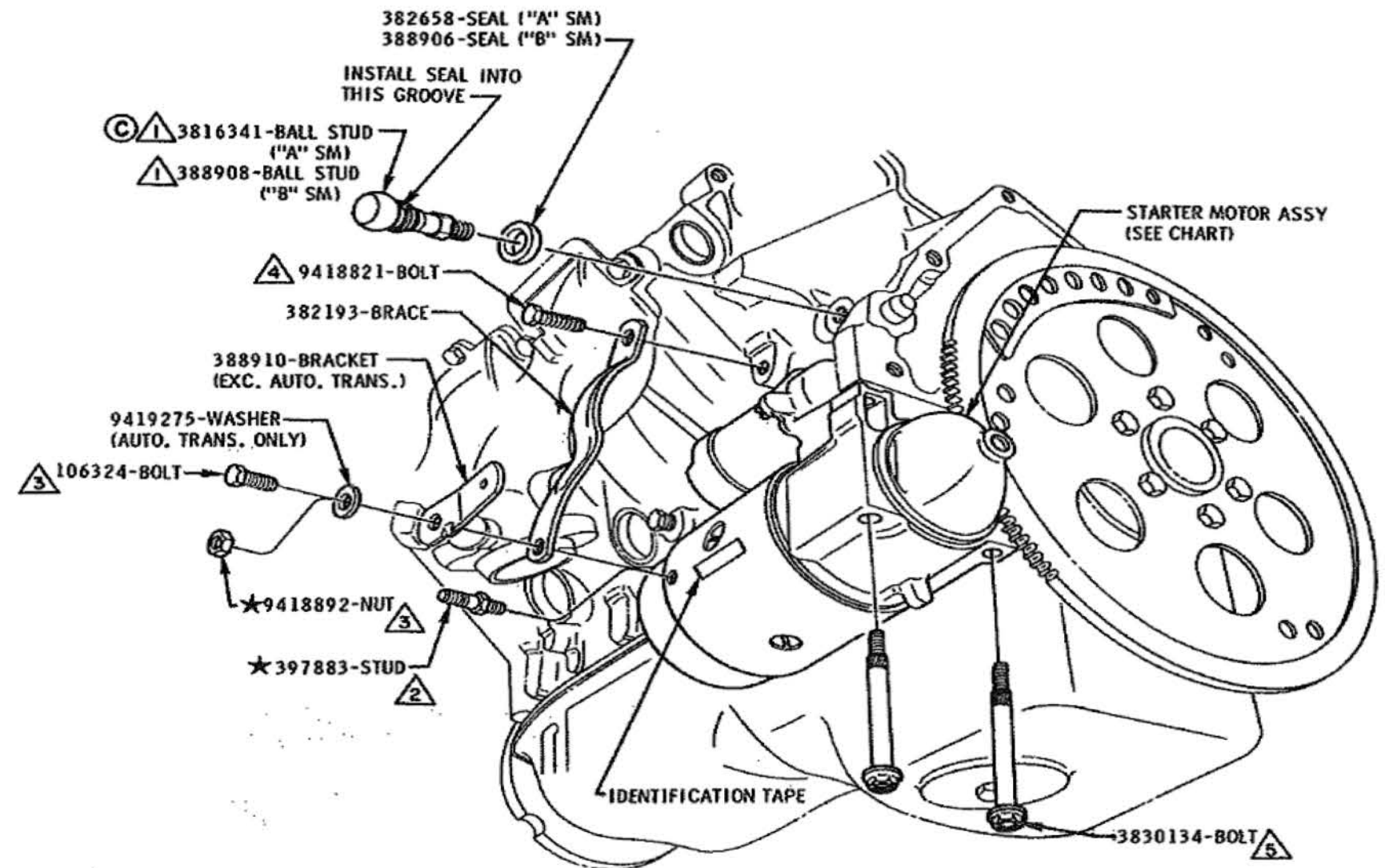
SERIES: A-BC-E
 PART NO. 400907

1967 PRODUCTION CAMSHAFTS									
CAMSHAFT ASSY	CAMSHAFT	INDEX	ENGINE USAGE	VALVE LIFT	VALVE TIMING	CAMSHAFT IDENTIFICATION		MATERIAL & PHASING	CASTING
						SHAFT GRIND	COLOR CODE		
396188	396189	2L	654 (JETFIRE) 2 BBL	INT. .387 EXH. .388	T.D.C. 120° 108° 280° 112° 60° 58° 90° EXH. INT.		PLAIN	3 CAST RINGS	394589
396192	396193	35-T	654 (CUTLASS) 4 BBL A.T. 658 (4-4-2) A.T. EXC. W30	INT. .430 EXH. .432	T.D.C. 117° 210° 280° 116° 70° 70° EXH. INT.		ONE WHITE STRIPE	NONE	401348 (OPT) (G)
393859	393854	35-N	658 (4-4-2) S.M. EXC. W30	INT. .472 EXH. .472	T.D.C. 118° 300° 280° 110° 78° 78° EXH. INT.		2 BLUE STRIPES		
396190	396191	35-A	657 (STARFIRE)	INT. .472 EXH. .461	T.D.C. 116° 240° 280° 116° 74° 74° EXH. INT.		ONE ORANGE STRIPE	2 CAST RINGS	389410
390961	390962	35-AE	664 (TORONADO)	INT. .472 EXH. .472	T.D.C. 116° 280° 27° 112° 75° 75° EXH. INT.		2 WHITE STRIPES		
393964	393965	35-C	654 (CUTLASS) 4 BBL S.M. 657 SUPER ROCKET	INT. .430 EXH. .432	T.D.C. 112° 210° 310° 116° 71° 71° EXH. INT.		2 GREEN STRIPES		
397144	397145	2-A	658 2BBL A.T.	INT. .435 EXH. .435	T.D.C. 110° 200° 108° 64° 54° EXH. INT.		ONE GREEN STRIPE		
397328	397329	57-0	658 4BBL & W30	INT. .474 EXH. .474	T.D.C. 118° 44° 38° 108° 90° EXH. INT.	 REAR END VIEW	FOUR ORANGE STRIPES		

CHART - CAMSHAFT IDENTIFICATION									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
					9-22-66	E ₃	W30 INFORMATION ADDED	XA	FF
					6-27-66	D	658=USAGE REMOVED	XA	PM
					6-27-66	C	DIAGRAM REVISED	XA	PM
					6-27-66	B	NOTE ADDED	XA	PM
					6-24-66	A	LINE ADDED	XA	PM

TITLE	1967	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
DATE	JAN. 4, 1966		6-0	120
DR. BY	C. GORDON			
CHECKED	<i>[Signature]</i>			
APPR.		SERIES	PART NO.	
		A-BC-E	396334	

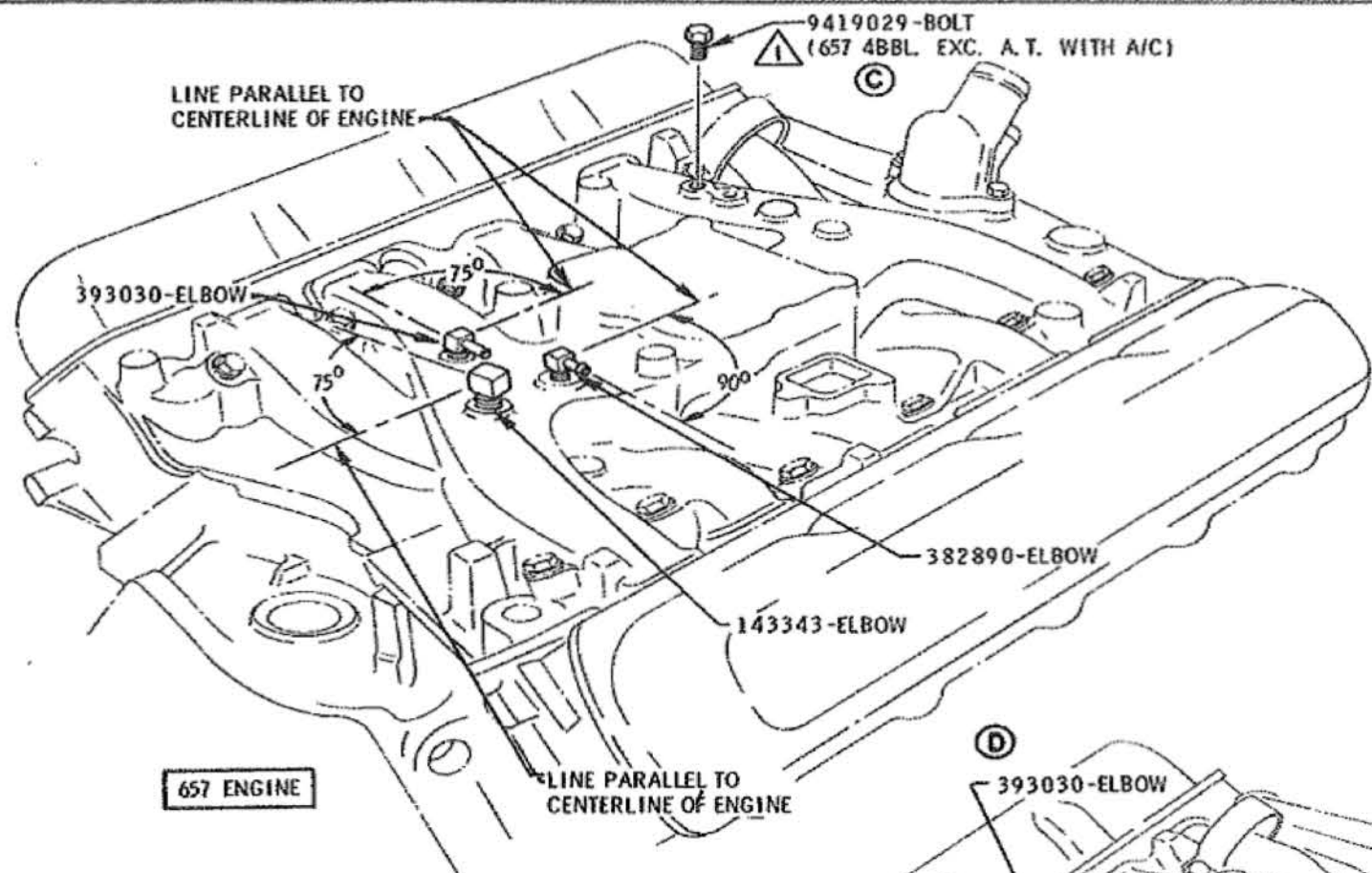
STARTER MOTOR USAGE CHART		
PART NO.	ENGINE USAGE	IDENT.
1108349	654 LOW COMP.	RED TAPE
1108348	654 HIGH COMP. 657 LOW COMP. 658	NONE
1108333	657 HIGH COMP.	YELLOW TAPE



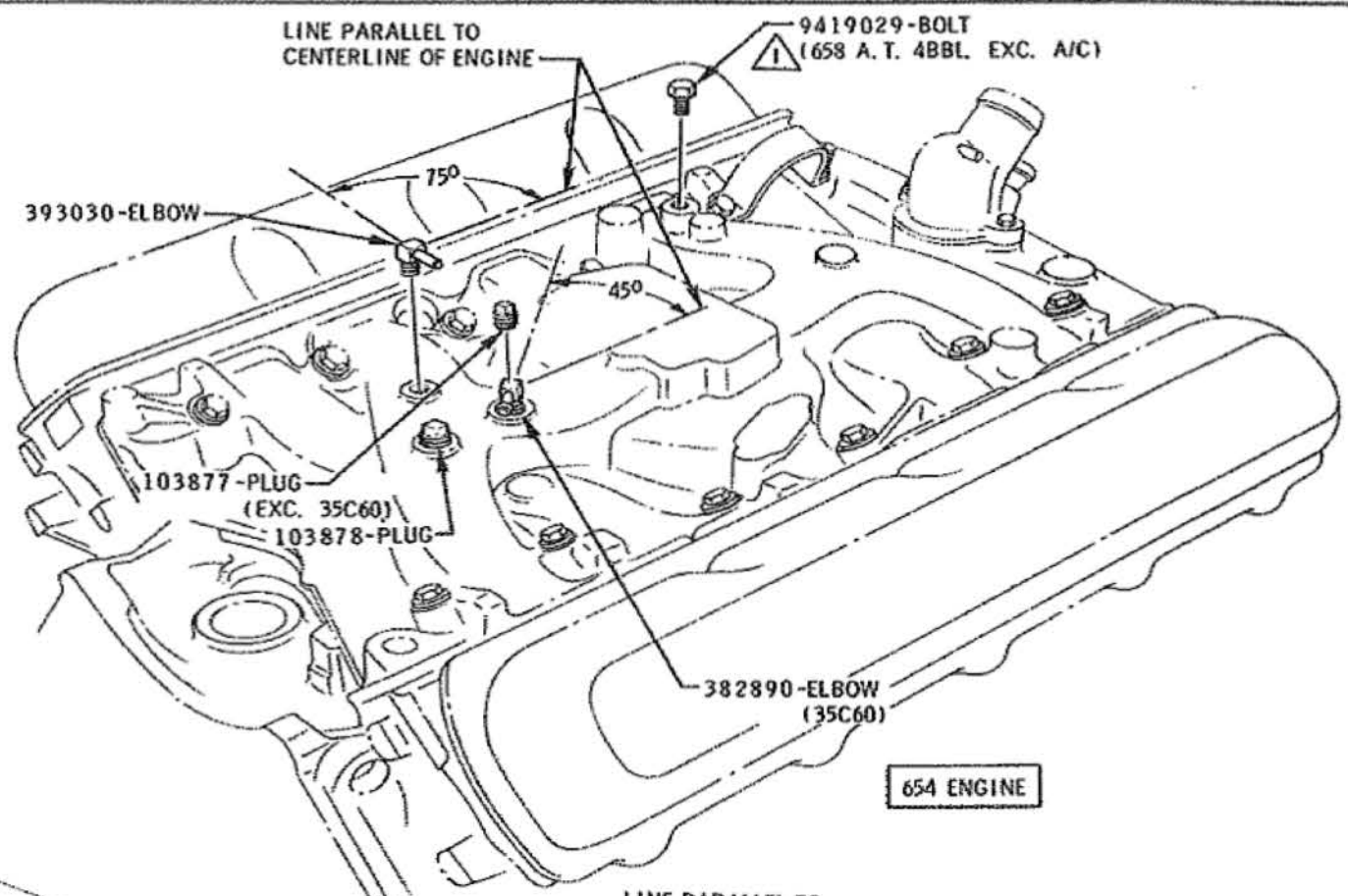
- ① 25-30 LB. FT.
- ② 5-8 LB. FT.
- ③ 10-15 LB. FT.
- ④ 15-25 LB. FT.
- ⑤ 25-35 LB. FT.

★ USE ONLY WITH STARTER MOTOR 1108333

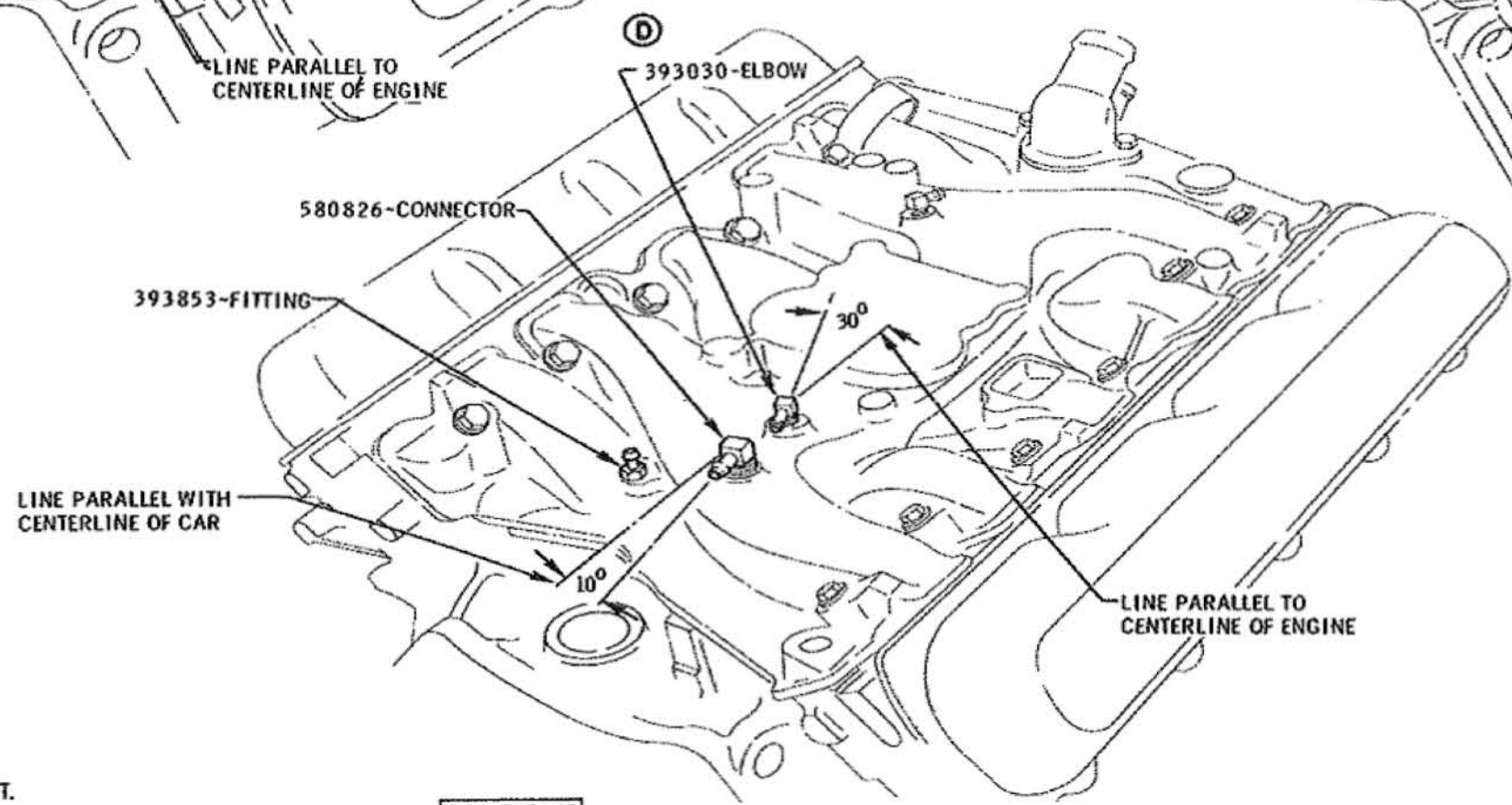
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					1-19-68	C	STUD ADDED									STARTER MOTOR & CLUTCH EQUALIZER BALL STUD TO ENGINE	1968		6-0	110	
					1-19-68	B	TITLE REVISED														
					4-14-67	A	VIEW REMOVED														
																	REF. 6Y2, 12A, 35L65, L74, L77, L78	SERIES A-B-C	PART 398162-3		



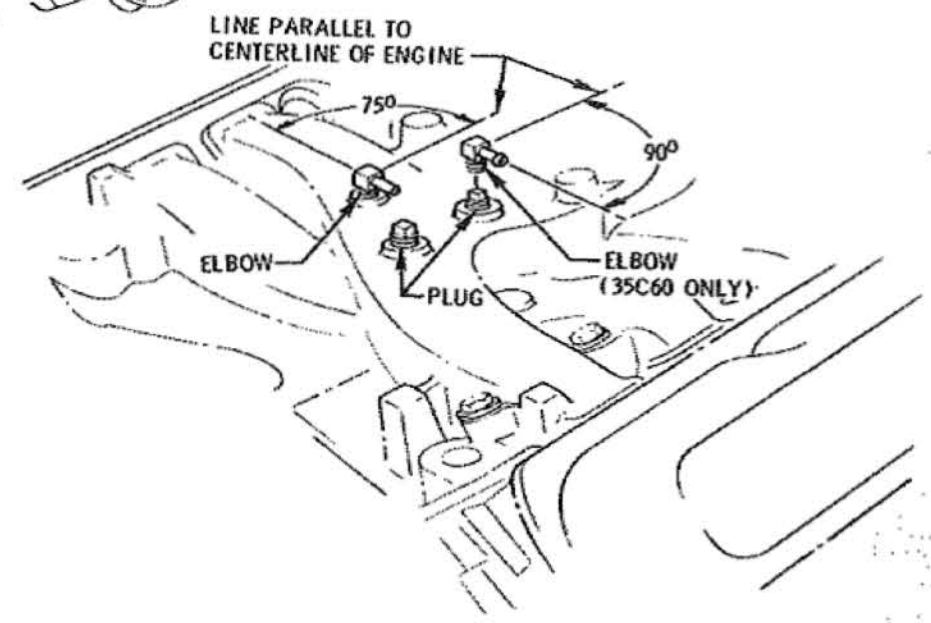
657 ENGINE



654 ENGINE



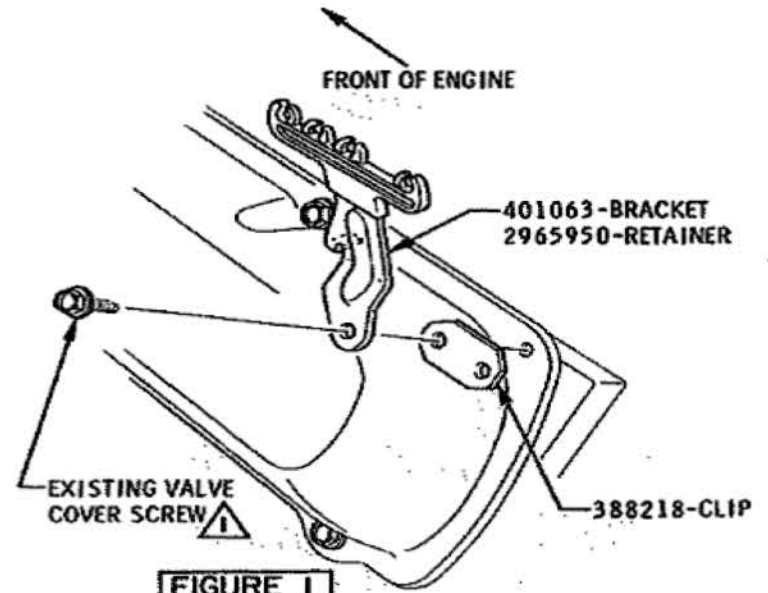
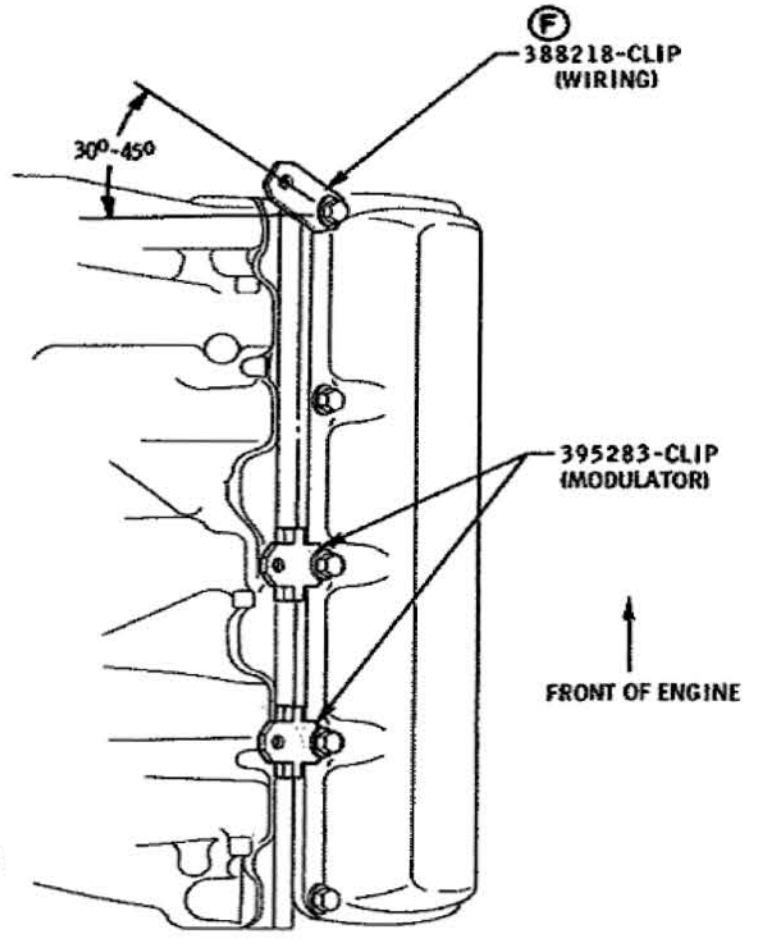
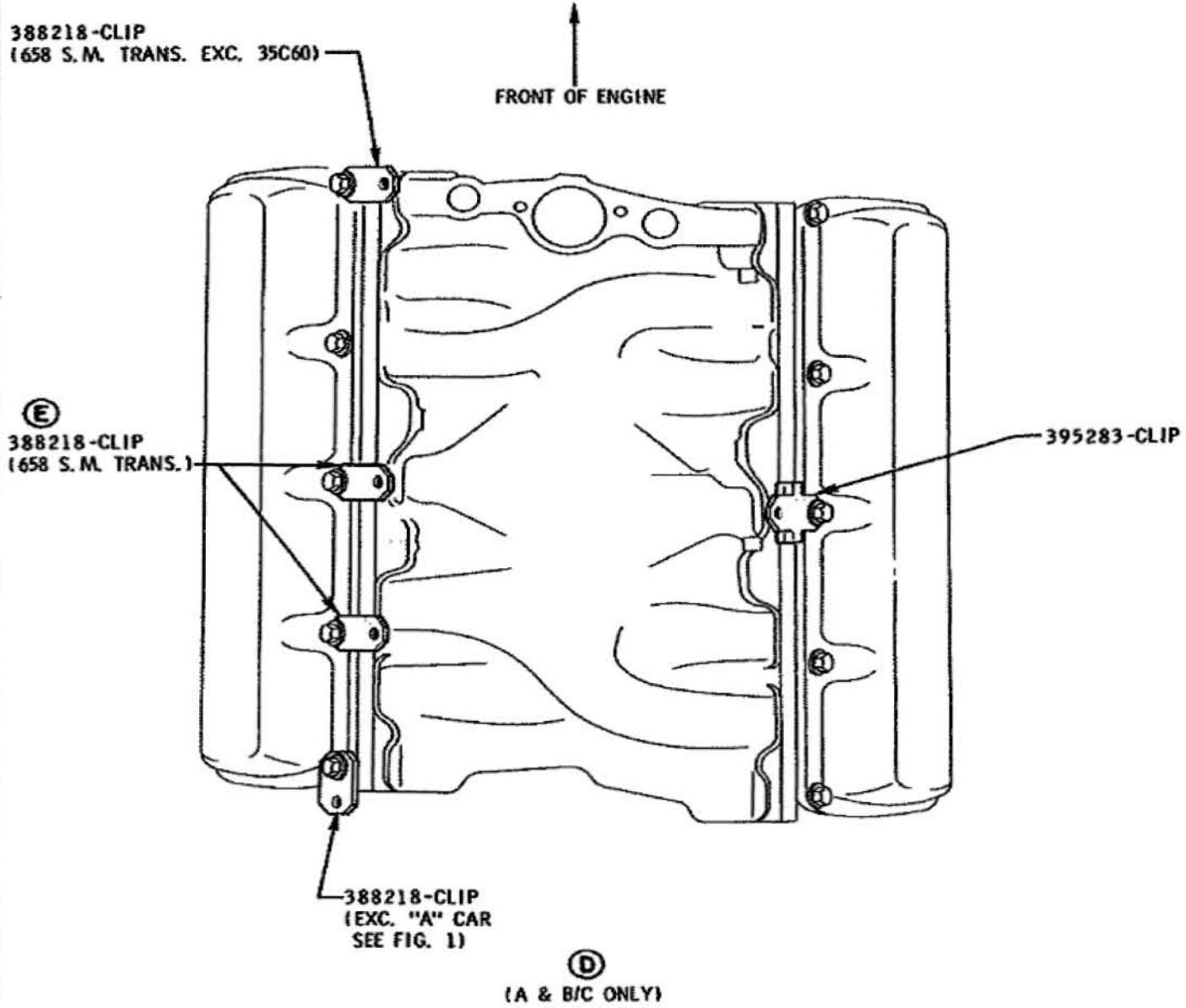
664 ENGINE



PART NUMBERS SAME AS 654 "A" ENGINE
658 "A" ENGINE

⚠ 10-15 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
10-3-67	E	REVISED & REDRAWN														INTAKE MANIFOLD VACUUM FITTINGS & PLUGS	1968	6-0	118	
6-15-67	D	WAS 303030														DATE APRIL 5, 1967				
5-1-67	C	USAGE REVISED														DR. BY CURT MAY				
4-18-67	B	WAS 580826-CONN.														CHECKED BY [Signature]				
4-18-67	A	WAS 45°														APPR. [Signature]	REF. 1A2C 56-6L 6M3-35C60	SERIES A-B-C-E	PART NO. 398162-3-4	



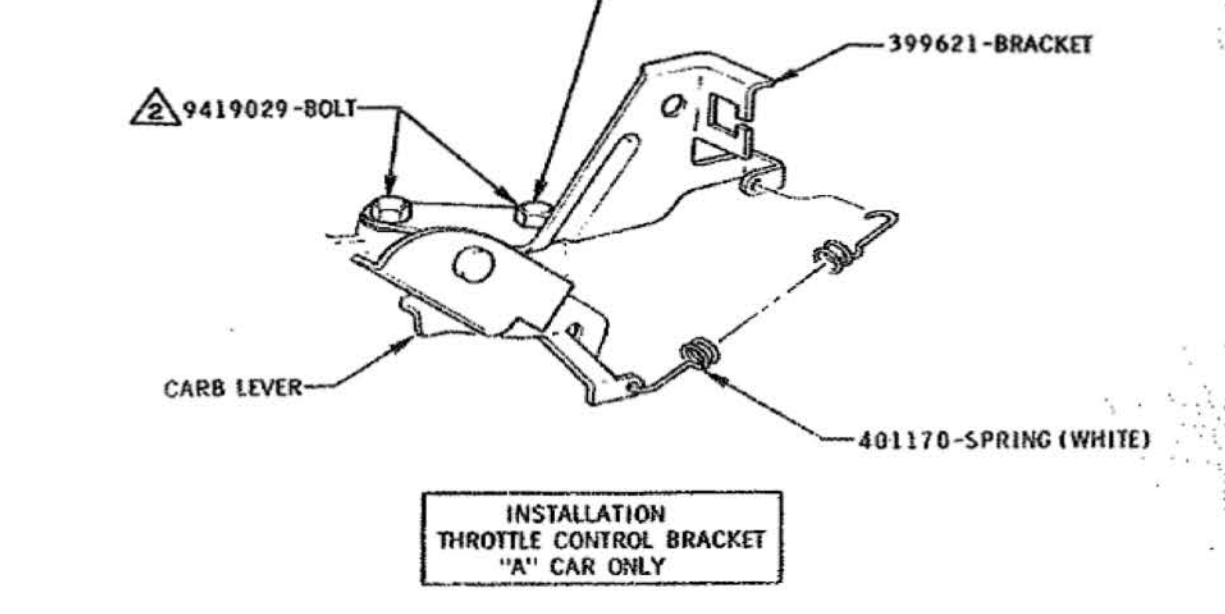
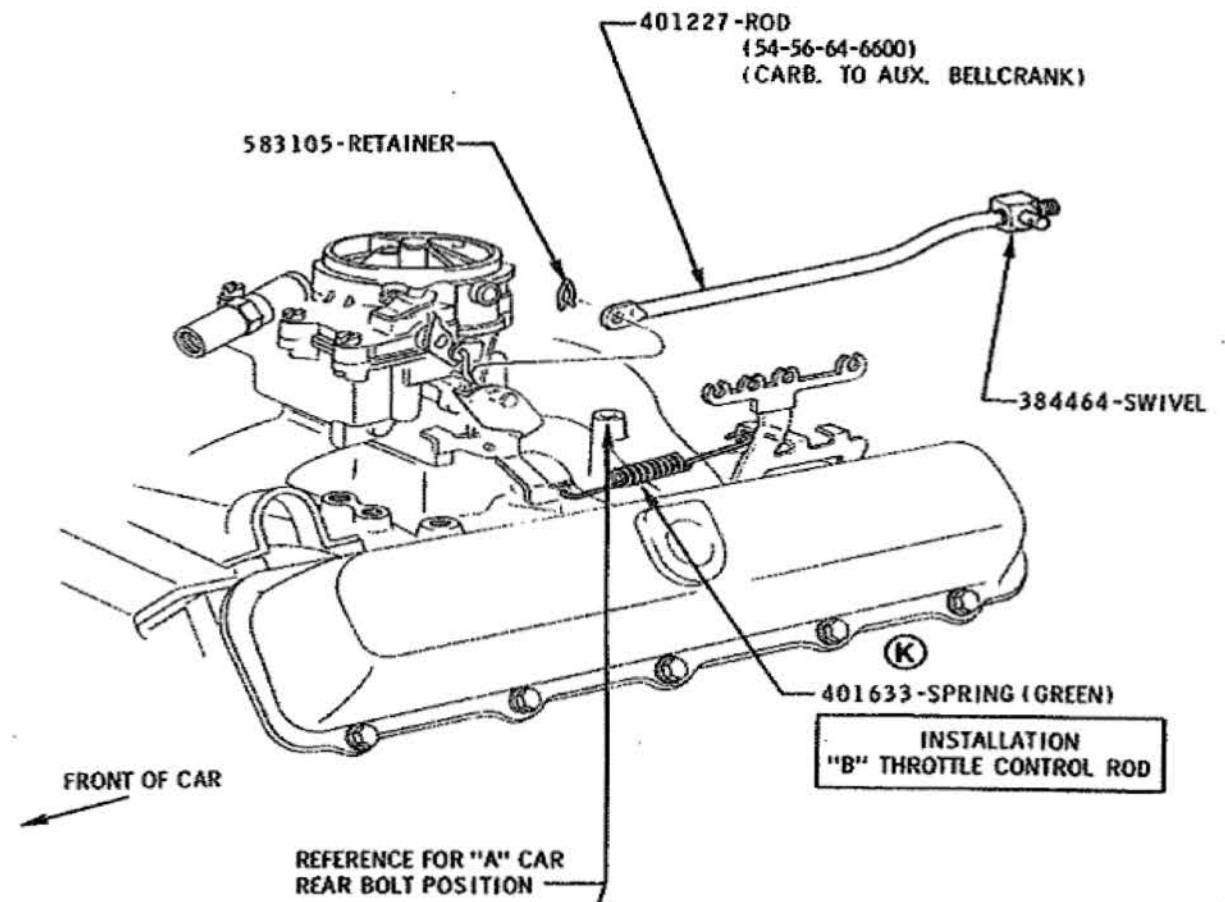
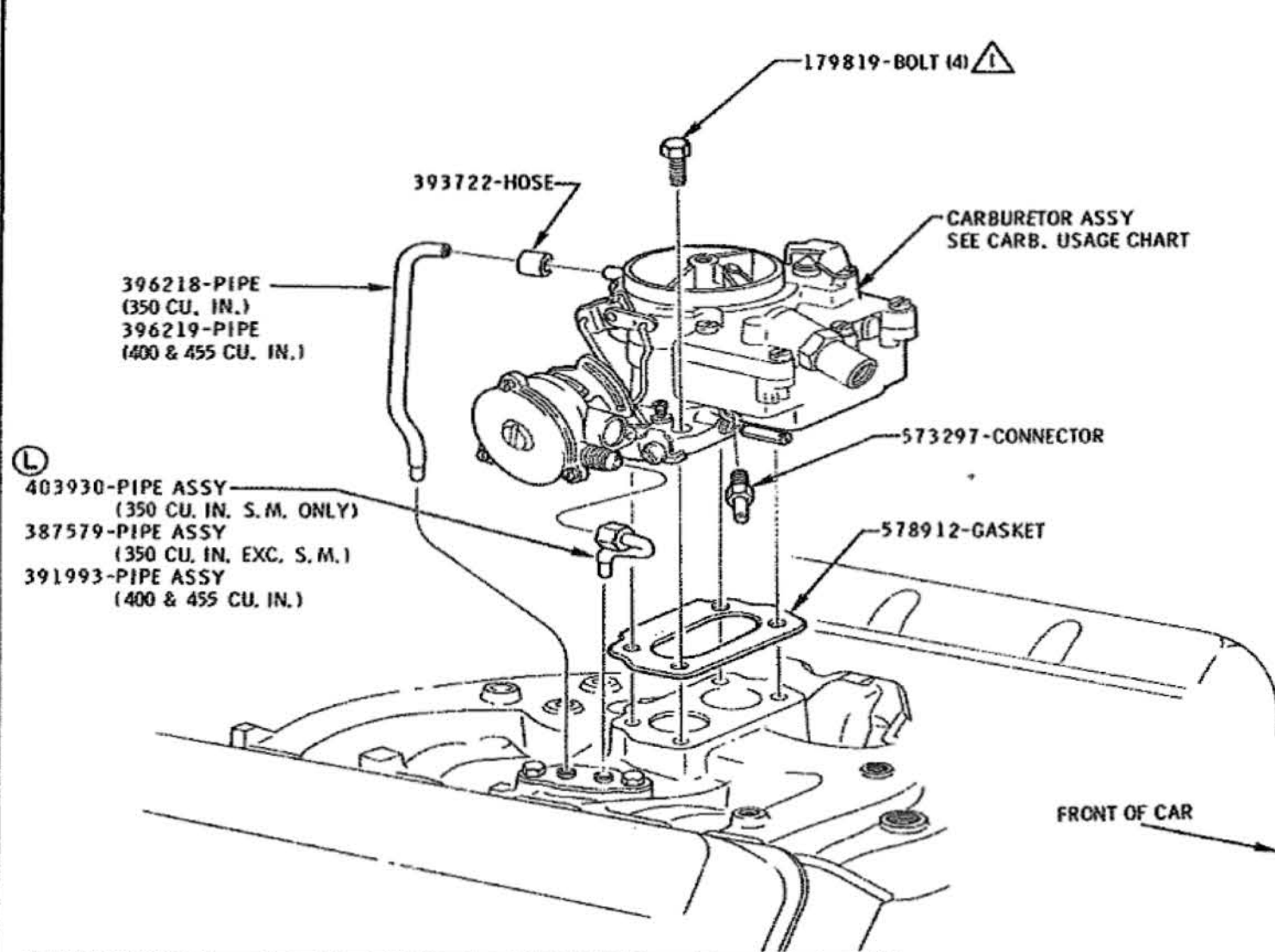
INSTALLATION
WIRING & MODULATOR PIPE
CLIP R.H. VALVE COVER
(E CAR ONLY)

FIGURE 1
INSTALLATION
SPARK PLUG CABLE BRACKET &
WIRING CLIP TO L.H. VALVE COVER
(“A” CAR ONLY)

60 - 90 LB. IN.

FASTEN ALL CLIPS WITH
EXISTING VALVE COVER SCREWS

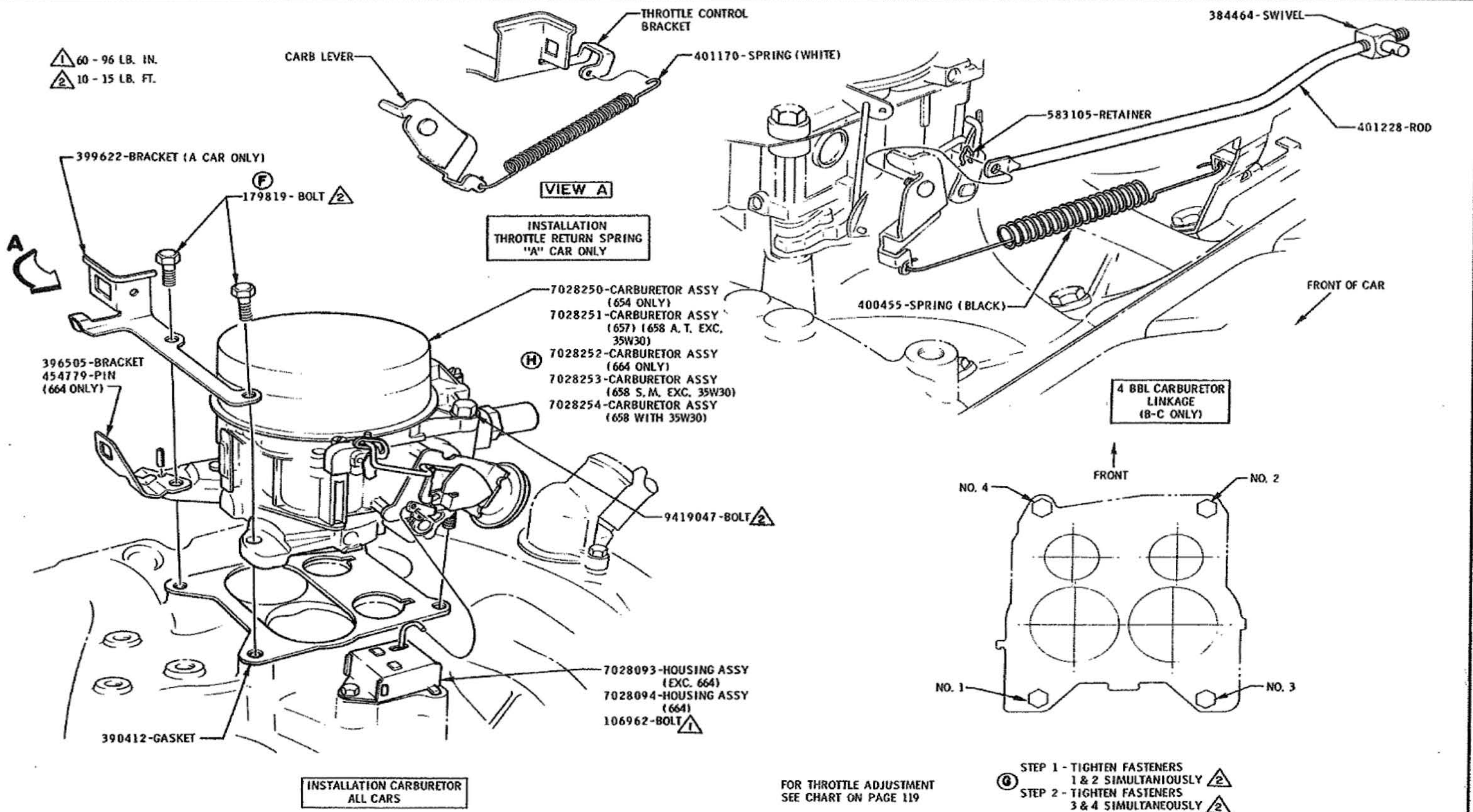
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					8-21-67	E	CLIP RELOCATED													VALVE COVER WIRING & MODULATOR CLIPS				
					7-31-67	D	VIEW REV. & REDRAWN													DATE APRIL 13, 1967	1968		6-0	120
					6-28-67	C	TORQUE SPEC. ADDED													DR. BY CUET MAY				
					6-26-67	B ₂	WAS 395283-CLIP													CHECKED JMBarnhart				
					5-8-67	A	REV. TO DETAIL													APPR. J. J. Ford				
					B-24-67	F	CLIP RELOCATED														REF. 6Y3 7B3C	SERIES ABCE	PART NO. 398162-3-4	



ENGINE USAGE	PART NO.	S.M.	A.T.	AIR COND.	ASSEMBLY CODE	TAG COLOR
350 CU. IN.	7028153	YES	NO	YES	NE	YELLOW
	7028154	NO	YES	YES	ND	GREEN
400 CU. IN.	7028158	NO	YES	NO	RE	ORANGE
	7028159	NO	YES	YES	RF	PURPLE
455 CU. IN.	7028155	YES	NO	NO	RD	LT. BLUE
	7028158	NO	YES	NO	RE	ORANGE
	7028159	YES	YES	YES	RF	PURPLE

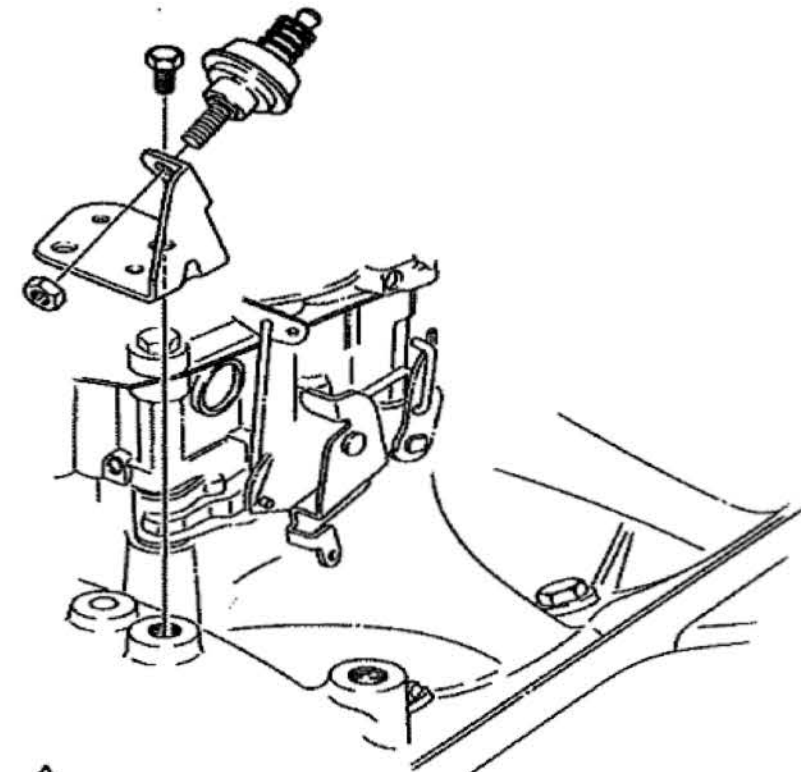
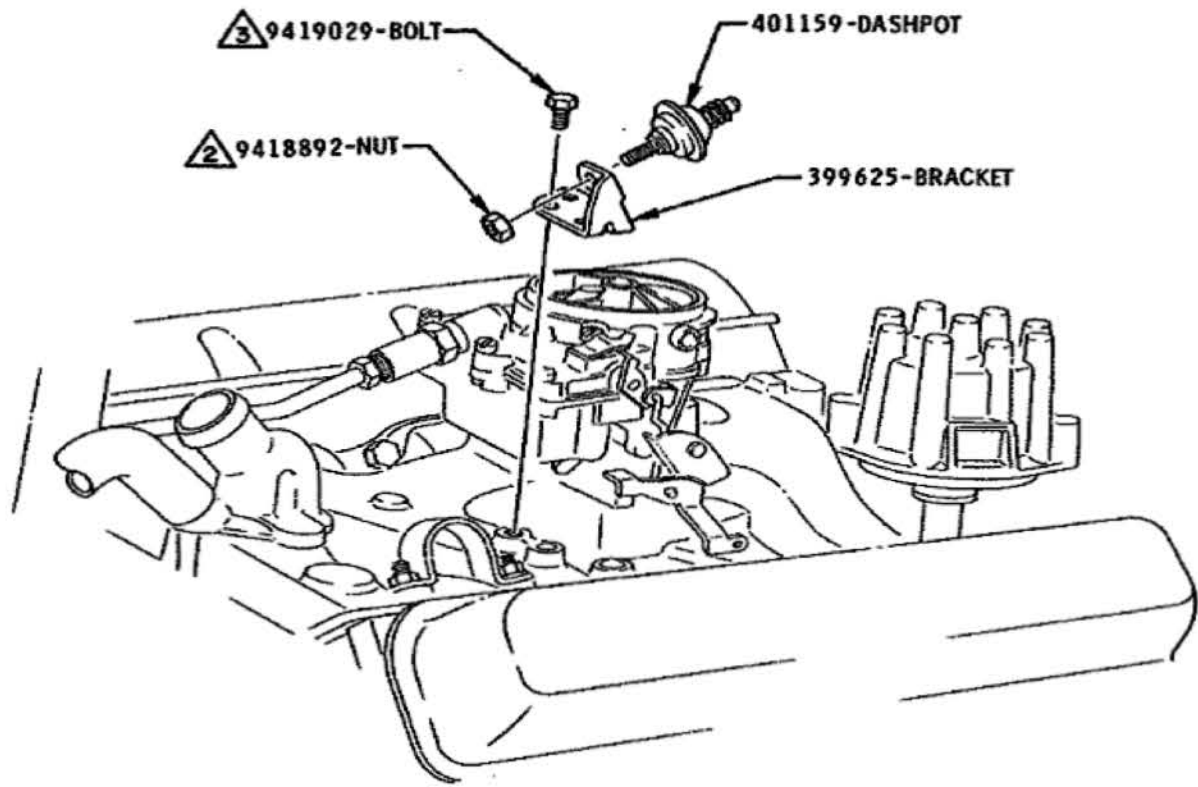
1 10 - 15 LB. FT.
2 14 - 17 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					4-25-68	K	WAS 401663	FR	MB	7-7-67	E	REVISED TO DETAIL	FR	MB							2 BBL CARB. & THROTTLE CONTROL ROD	1968		6-0	122
					4-22-68	J	GREEN WAS SILVER	FR	MB	7-3-67	D	VIEW ADDED	FR	MB							DATE MARCH 3, 1967				
					1-26-68	H	WAS 7028156	CM	MS	6-19-67	C	7028158 ADDED	CM	MS							DR. BY CUET MAY				
					10-25-67	G	PART NO. REMOVED	CM	MS	6-6-67	B	HAS 400451 ROD ASSY	CM	MS							CHECKED INT. QUALITY				
5-27-68	L	PART NO. ADDED			CM	MS	10-3-67	F	PART NO. ADDED	CM	MS	4-1-67	A	PART NOS. REMOVED	CM	MS					APPR. D. J. F. L.	REF. 6M1 - 6N2 35L65	SERIES	PART NO.	
																					35M31	(7A)	A-B	398162-3	



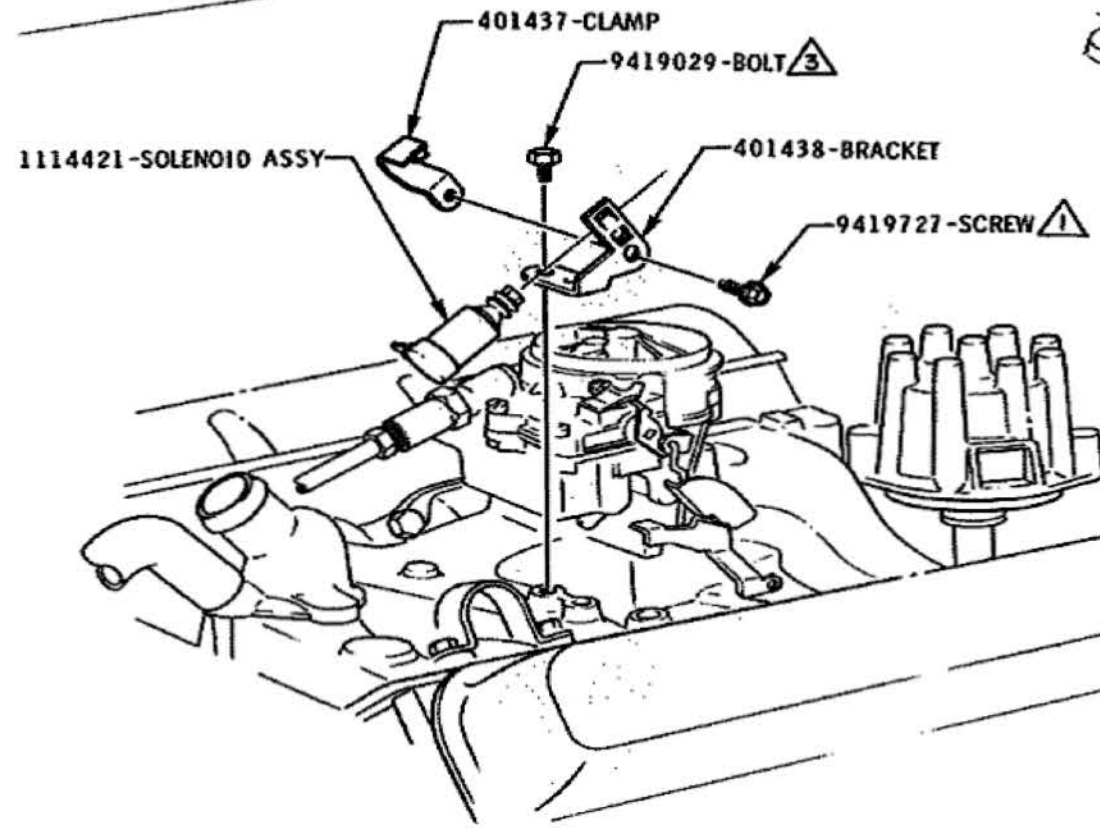
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					10-4-67	E	PART NO. ADDED									CARBURETOR AND LINKAGE - 4 BBL.				
					7-3-67	D	VIEW ADDED										1968		6-0	123
					4-29-68	H	PART NO'S REVISED													
					12-21-67	G	TIGHTENING SEQUENCE REV.													
					11-15-67	F	WAS STUD & NUT													

SERIES **AB-CE** PART **398162-3-4**



(F) INSTALLATION
2BBL. DASHPOT TO MANIFOLD
658 A. T. WITH 35C60
657 A. T. WITH 35C60, 35C61

(F) INSTALLATION
4BBL. DASHPOT TO MANIFOLD
654, 658 A. T. WITH 35C60
658 S. M. T.
657 A. T. WITH 35C60, 35C61
(PART NO'S SAME AS 2BBL)

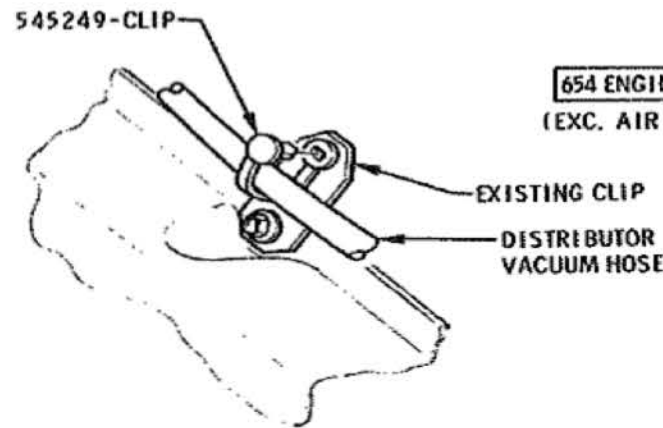
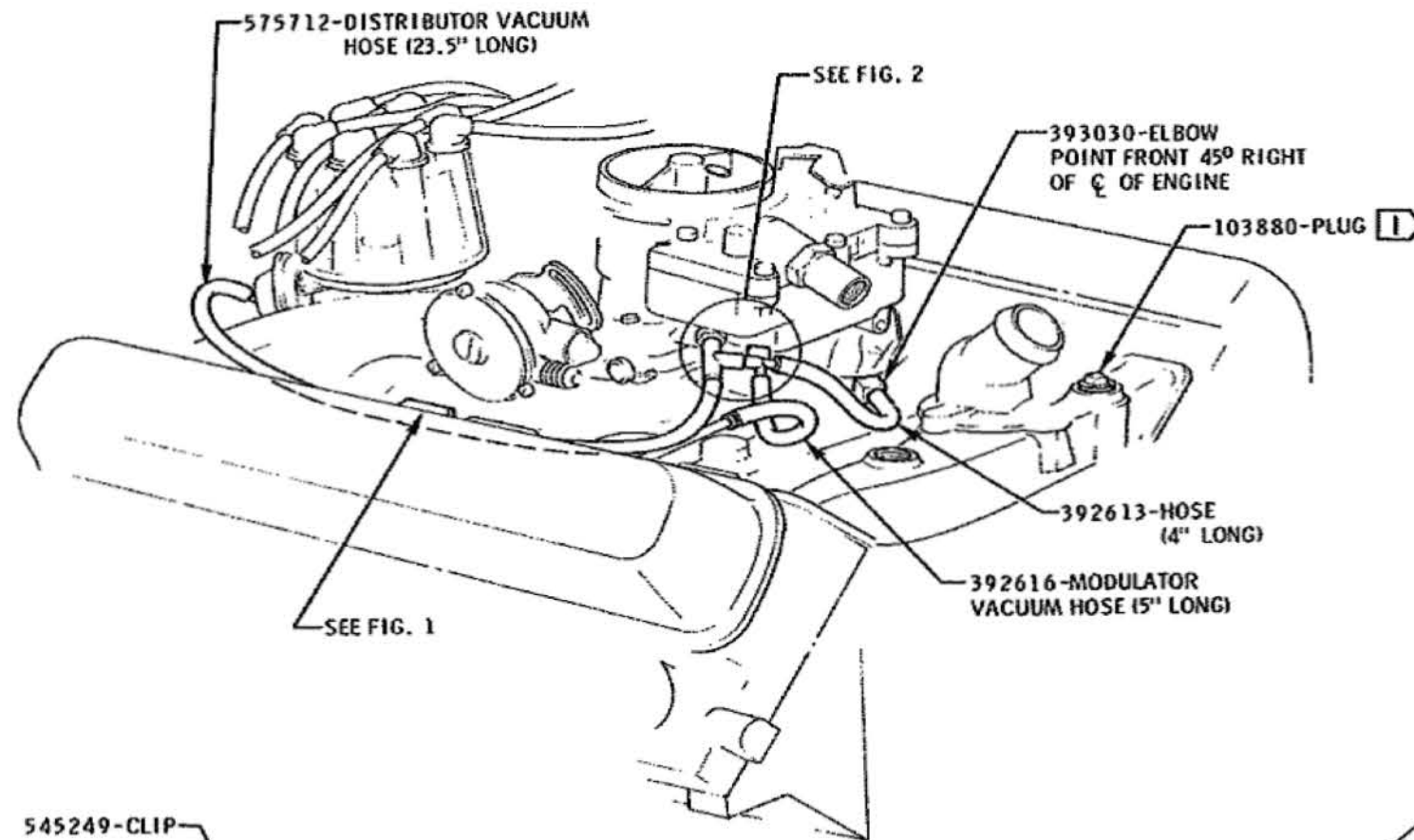


(H) INSTALLATION THROTTLE CONTROL SOLENOID
350 CU. IN. 2BBL.

- (1)** 30-60 LB. IN. **(G)**
- (2)** 96-132 LB. IN.
- (3)** 14-17 LB. FT.

(F) FOR SOLENOID INSTALLATION AND
ADJUSTMENT SEE CHART ON PAGE 105

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-3-67	E	TORQUES REVISED	SR	MB							THROTTLE CONTROL DASHPOT AND SOLENOID ASSEMBLY				
					7-3-67	D	VIEW ADDED	SR	MB								1968		6-0	124
					9-15-67	N	NOTE REV.	OM	MB	6-6-67	C	REVISED TO DETAIL	OM	MB		DATE APRIL 4, 1967				
					8-25-67	G	TORQUE REV.	OM	MB	6-6-67	B	WAS 9787473	OM	MB		DR. BY CUET MAY				
					8-21-67	K3	INFO ADDED	OM	MB	4-14-67	A	TITLE REVISED	OM	MB		CHECKED MB Barnhart				
																APPR. F. ROZNOWSKI	REF. 35N33, M40, M41	SERIES	PART NO.	
																		A-B-C	398162-3	



654 ENGINE WITH A. T.
(EXC. AIR COND. & Y72)

FIGURE 1
INSTALLATION
DIST. VAC. HOSE CLIP

APPLY SEALER 9985000 TO
AREAS INDICATED **I**
PRIOR TO ASSY

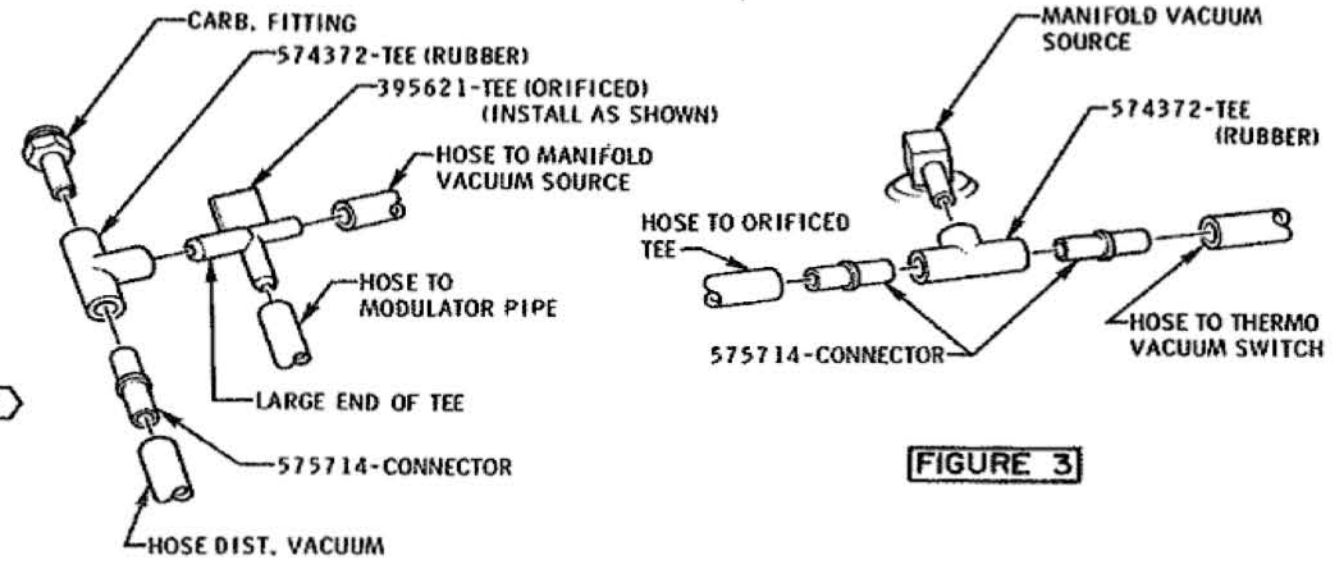
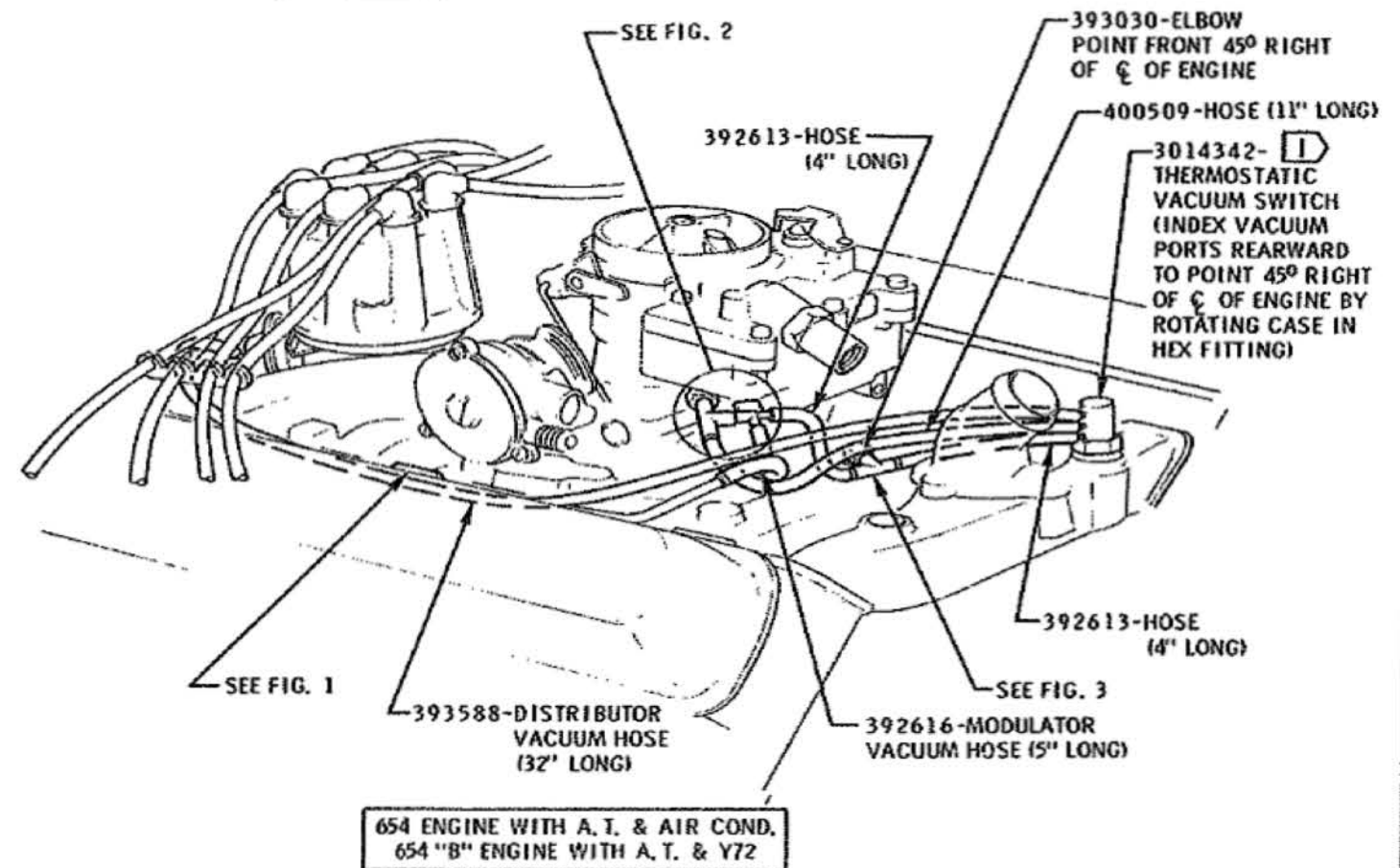


FIGURE 2

FIGURE 3



654 ENGINE WITH A. T. & AIR COND.
654 "B" ENGINE WITH A. T. & Y72

REVISION										REVISION										REVISION										REVISION									
DR.	CK.	DATE	SYM.	DR.	CK.	DATE	SYM.	DR.	CK.	DATE	SYM.	DR.	CK.	DATE	SYM.	DR.	CK.	DATE	SYM.	DR.	CK.	DATE	SYM.	DR.	CK.	DATE	SYM.	DR.	CK.	DATE	SYM.								
																												TITLE				VACUUM HOSE 350 CU. IN. 2 BBL. CARB. WITH AUTO. TRANS.							
																DATE				FEBRUARY 1, 1968				FIRST USED				1968											
																DR. BY				CURT MAY				OLDSMOBILE PRODUCT				INFORMATION MANUAL				MANUAL SEC. PAGE				6-0 125			
																CHECKED				1/13/68				REF. 35060				SERIES				A-B							
																APPR.				S. J. Bond				1/31/68				PART NO.				398162-3							

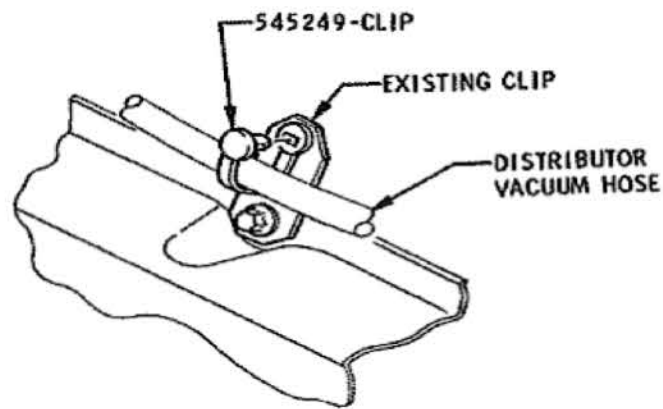
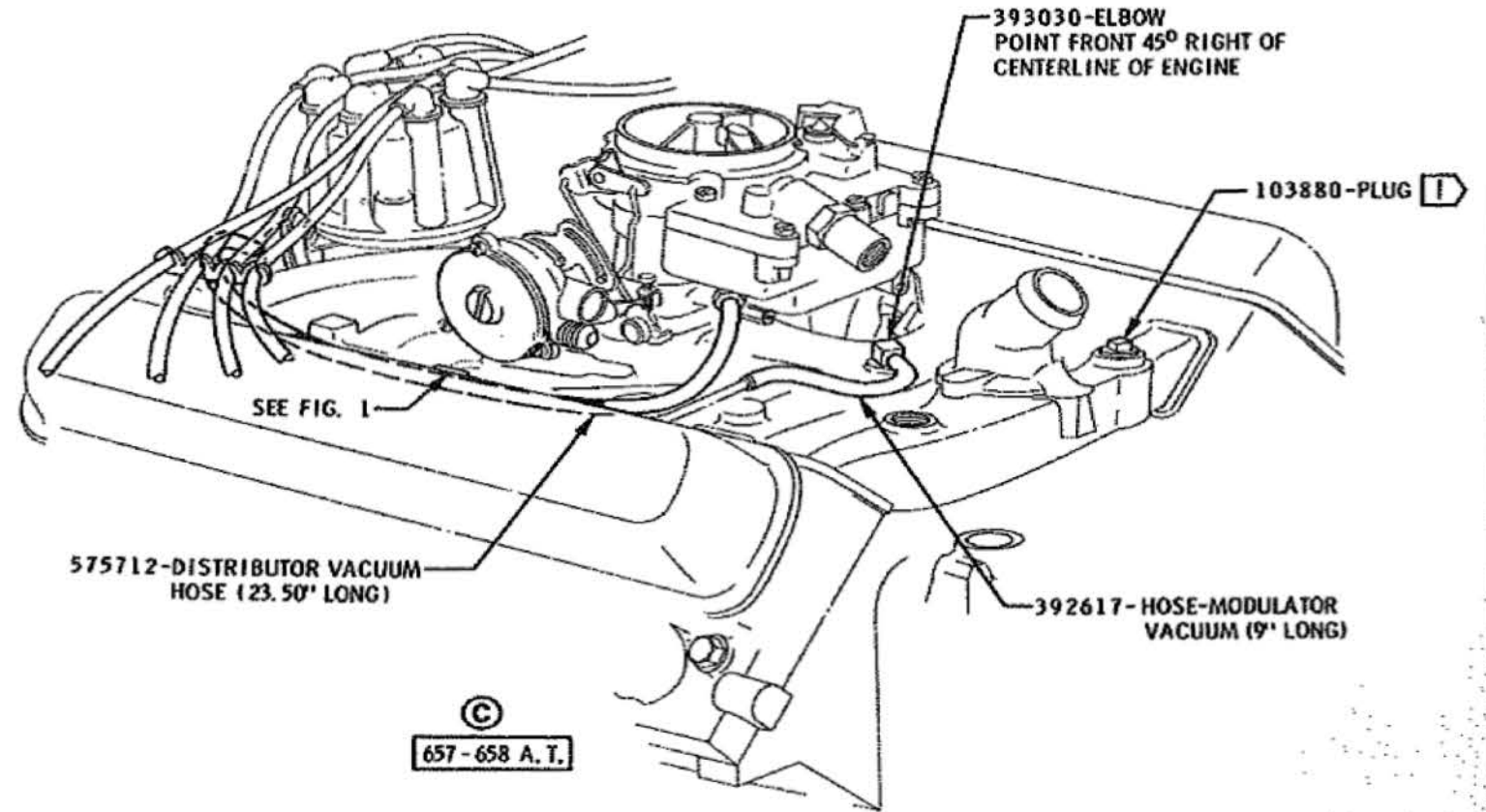
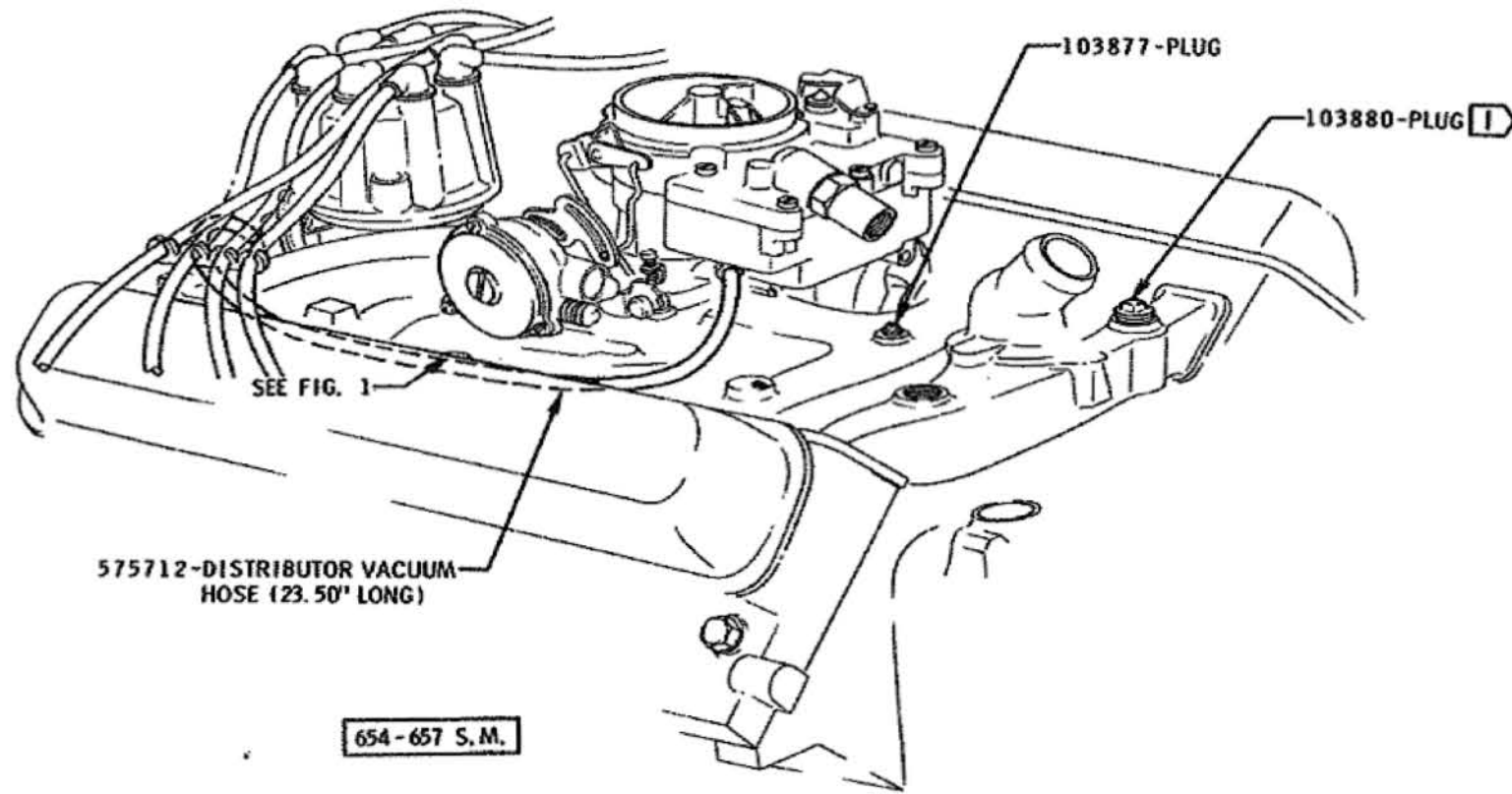
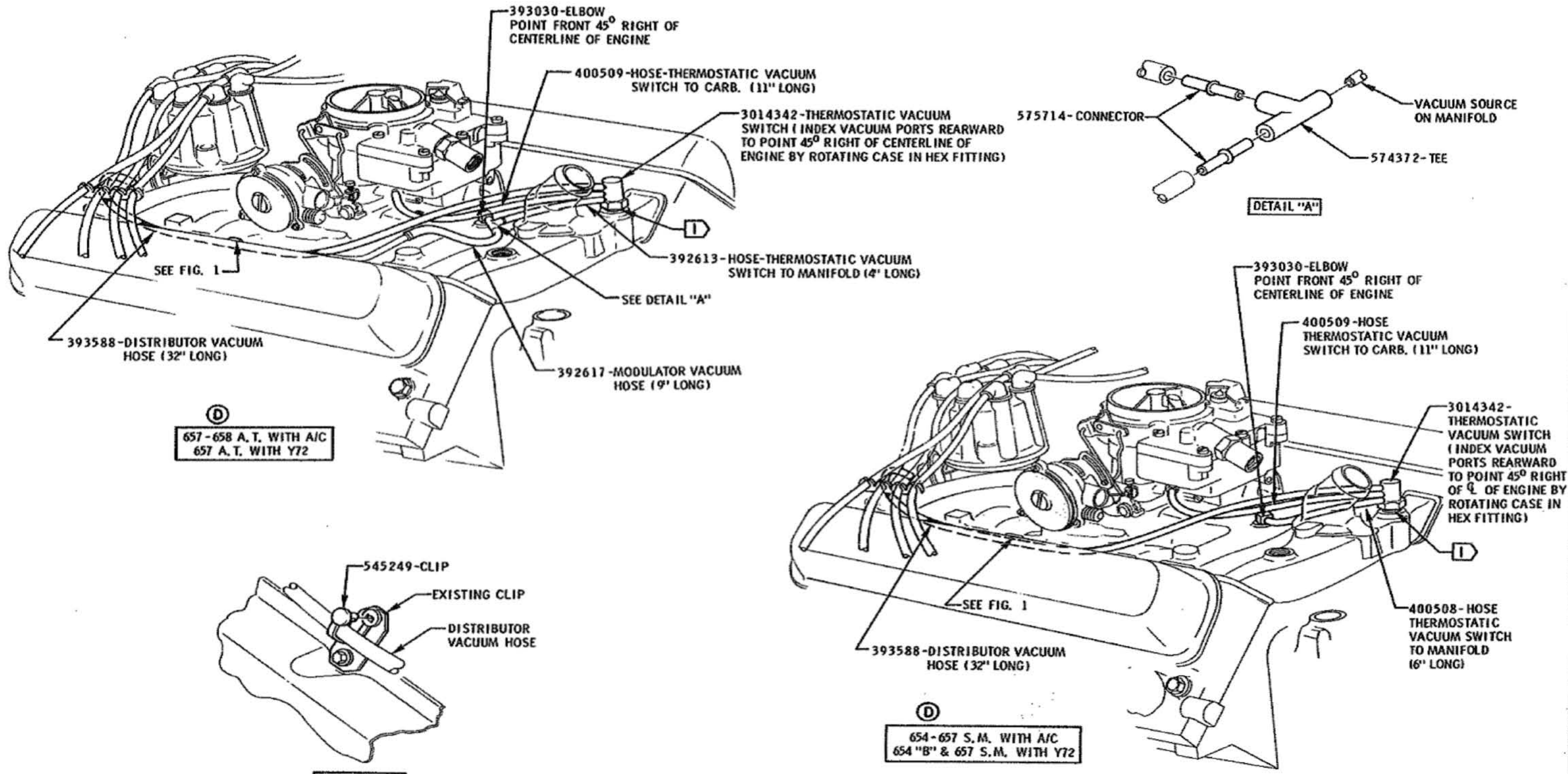


FIGURE 1
INSTALLATION
DIST. VAC. HOSE CLIP

APPLY SEALER 9985000 TO
AREAS INDICATED **(I)**
PRIOR TO ASSY

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																ENGINE VACUUM HOSES (2BBL. CARB. EXC. A/C & 654 A.T.) (EXC. 35Y72)	1968		6-0	126
					1-31-68	C ₂	NOTE E TITLE REV									DATE APRIL 5, 1967				
					10-4-67	B	NOTE ADDED									DR. BY CUET MAY				
					8-23-67	A	REV. F REDRAWN									CHECKED <i>[Signature]</i>	REF. 6L, 6Y3			
																APPR. <i>[Signature]</i>		SERIES	PART NO.	
																		A-B	398162-3	



APPLY SEALER 9985000 TO
AREAS INDICATED PRIOR TO ASSY

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					1-31-68	D ₃	NOTES & TITLE REV									ENGINE VACUUM HOSES (2BBL. CARB. WITH A/C EXC. 654 A.T.)	1968		6-0	127
					10-4-67	C	NOTE ADDED									DATE APRIL 5, 1967				
					8-23-67	B	REV. & REDRAWN									DR. BY CURT MAY				
					7-27-67	A ₂	NOTES REVISED									CHECKED [Signature]				
																APPR. [Signature]				
																SERIES				
																A-B				
																PART NO.				
																398162-3				

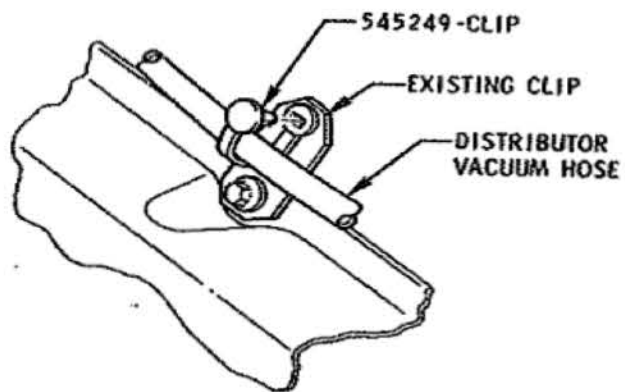
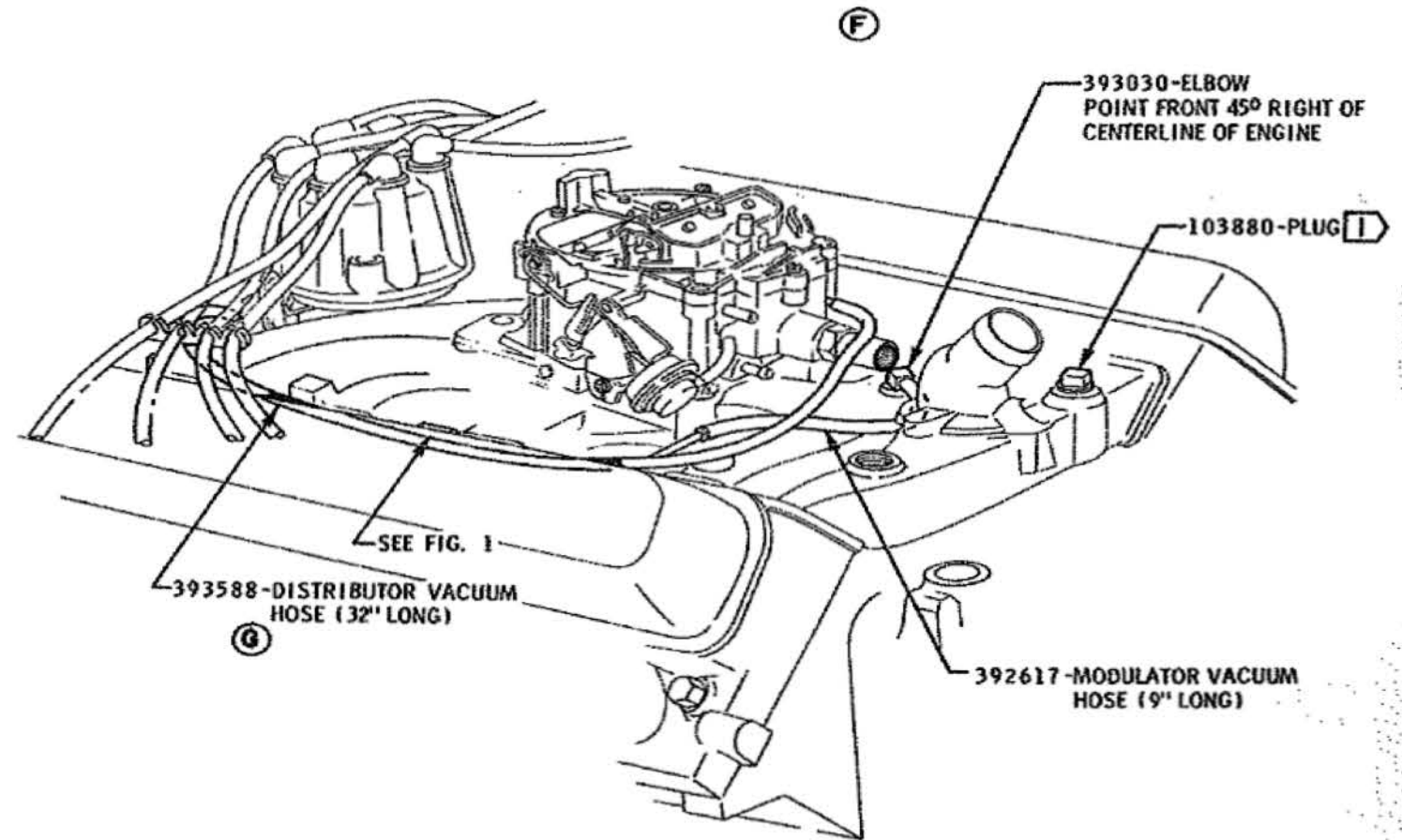
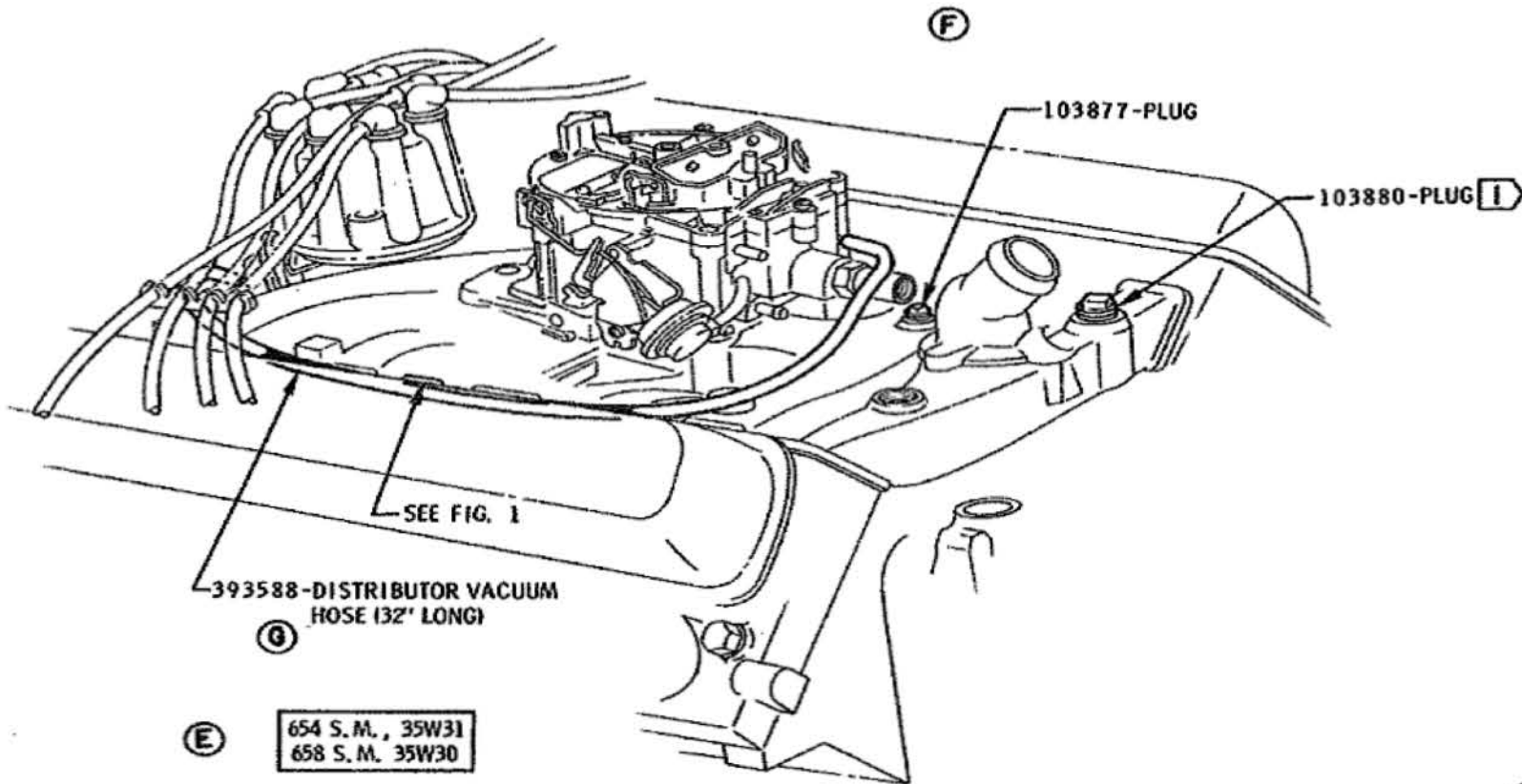
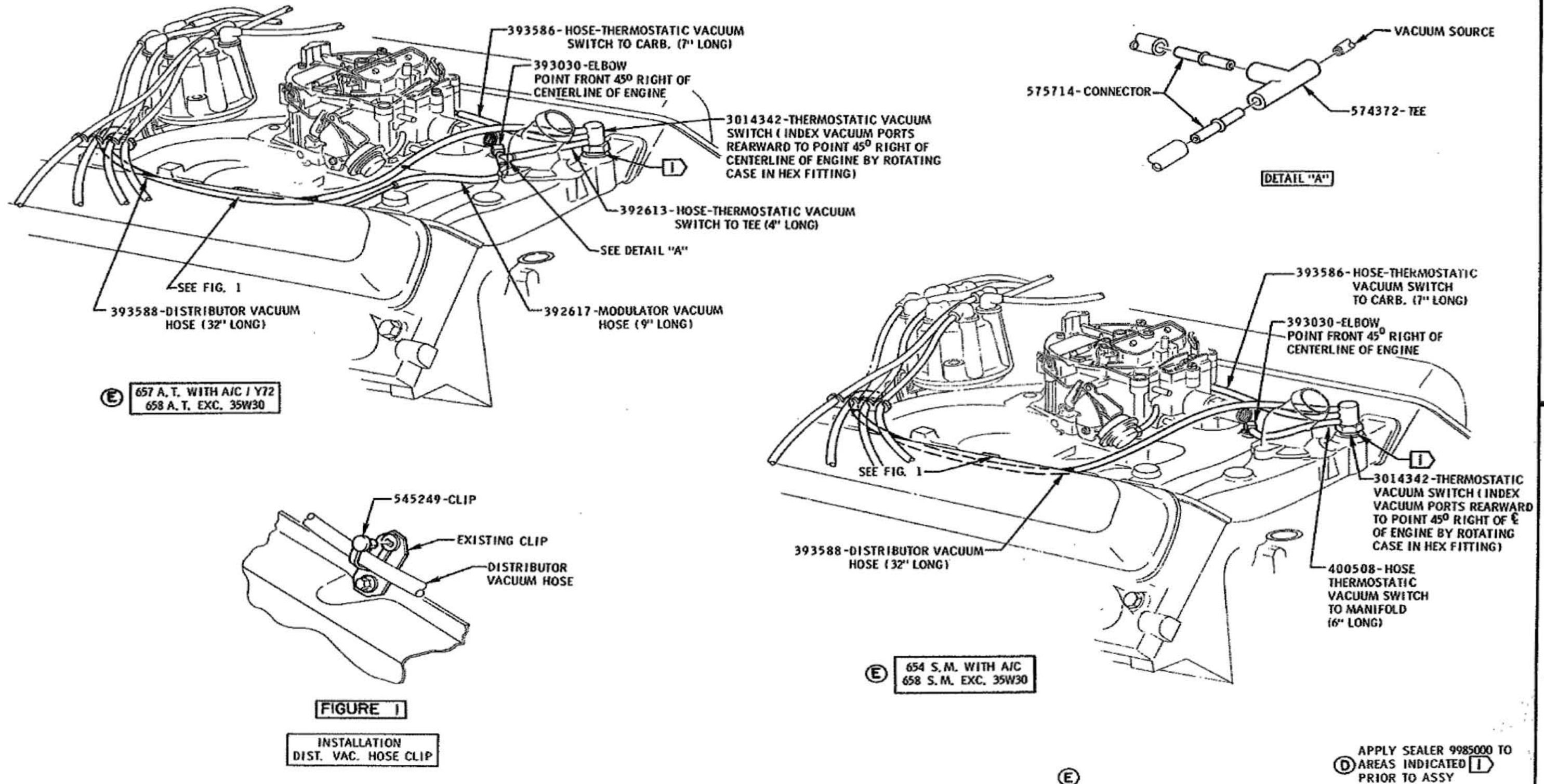


FIGURE 1
INSTALLATION
DIST. VAC. HOSE CLIP

APPLY SEALER 9985000 TO
AREAS INDICATED I
PRIOR TO ASSY

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					2-1-68	EG	NOTES & TITLE REV									ENGINE VACUUM HOSES (4 BBL. CARB. EXC. A/C & Y72)				
					10-8-67	D	NOTE ADDED									DATE APRIL 5, 1967	1968		6-0	128
					8-23-67	C	REV & REDRAWN									DR. BY CURT MAY				
					4-29-68	G ₂	35W30 & 35W31 REM.									CHECKED [Signature]				
					4-29-68	F ₂	9781338-REMOVED									APPR. [Signature]				
																REF.				
																SERIES				
																A-B-C				
																PART NO.				
																398162-3				



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
2-1-68	E ₃	NOTES & TITLE REV.														ENGINE VACUUM HOSES (4 BBL. CARB. EXC. 654 A. T. WITH A/C)	1968		6-0	129
10-4-67	D	NOTE ADDED														DATE APRIL 5, 1967				
8-23-67	C	REV. E REDRAWN														DR. BY CURT MAY				
7-27-67	B ₂	NOTES REVISED														CHECKED <i>myBarnhart</i>				
7-27-67	A ₂	NOTE REVISED														APPR. <i>CS LaFond</i>				
																		SERIES	PART NO.	
																		A-B-C	398162-3	

SPARK PLUG CABLE ASSY NO. CHART

PLUG #	STANDARD	35C60, C61
1	2988276	
2	2988276	
3	2988276	
4	2988276	
5	2985879	
6	2986321	
7		
8	2985879	

(L)

SPARK PLUG CHART

PLUG ASSY	TYPE	COMP.	ENGINE USAGE
5611000	45S	LOW	654 - 657
5610857	44S	HIGH	654 - 657 - 658
5610953	46S	EXPORT	654 - 657
5611050	43S	HIGH	ALL 657 - 658 POLICE ENGINES

(K)

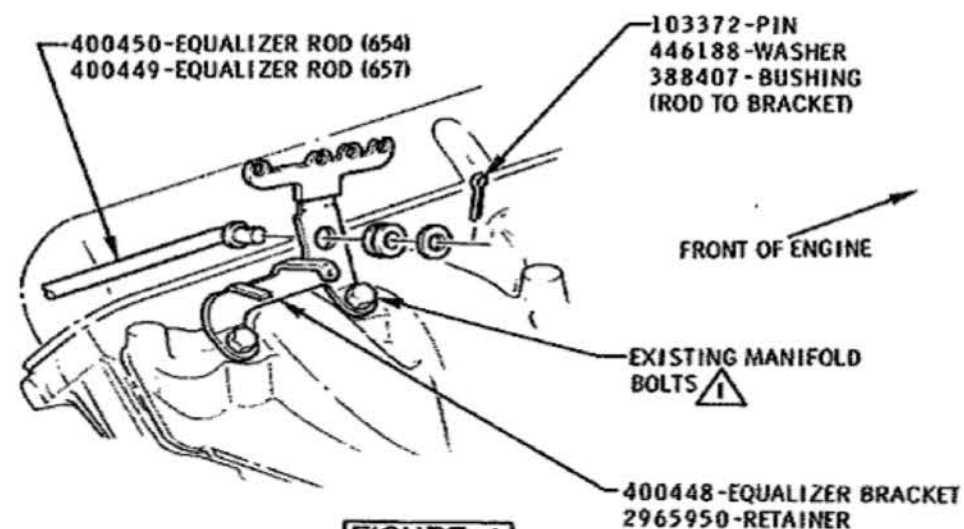
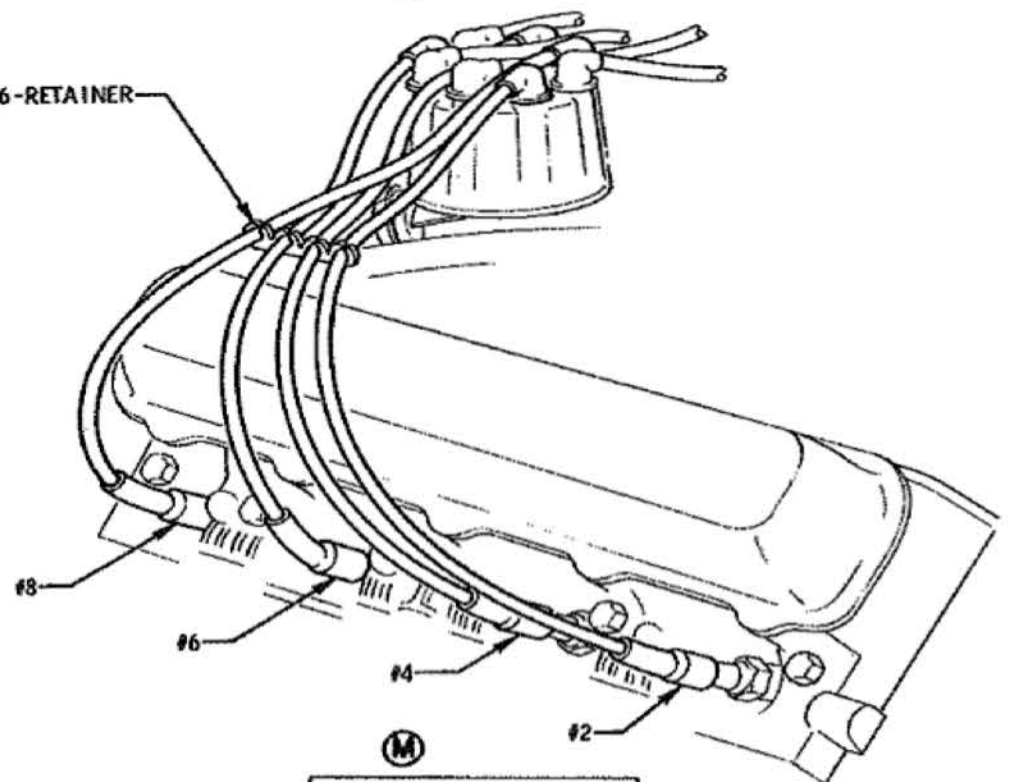


FIGURE 1

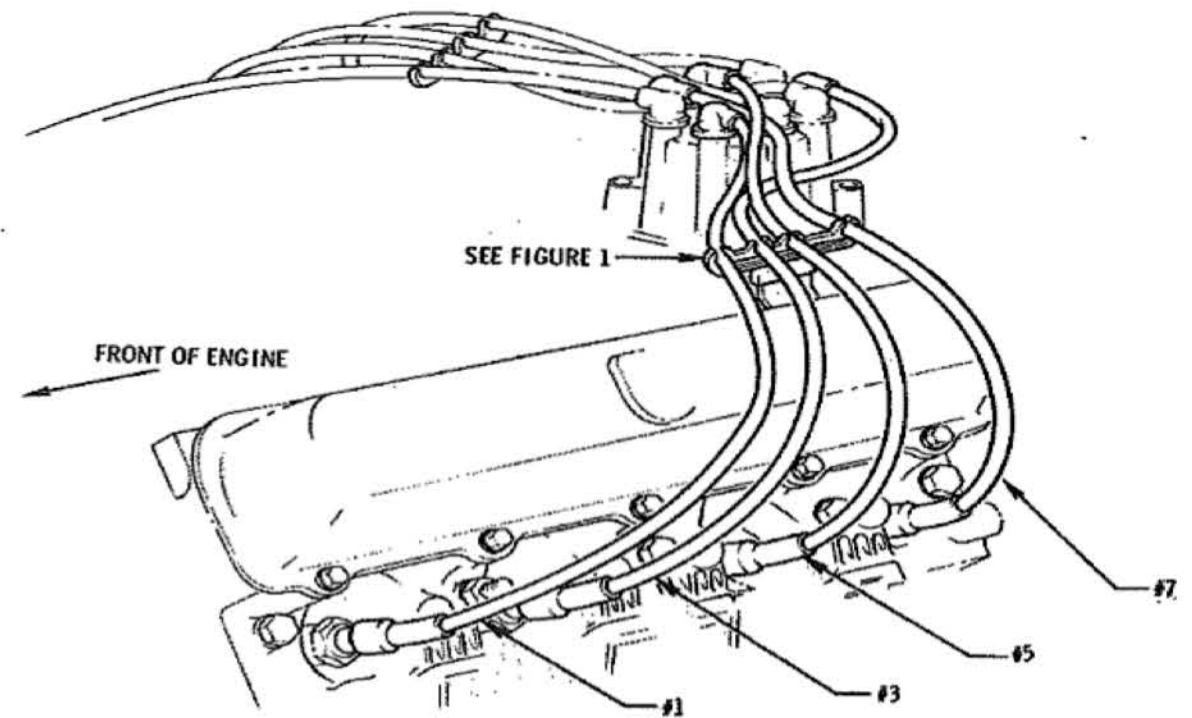
(ALL "B-C" CARS)
FOR "A" CAR BRACKET
INSTALLATION SEE PAGE 120

2965736-RETAINER



TYPICAL SPARK PLUG
CABLE ROUTING R. H. SIDE

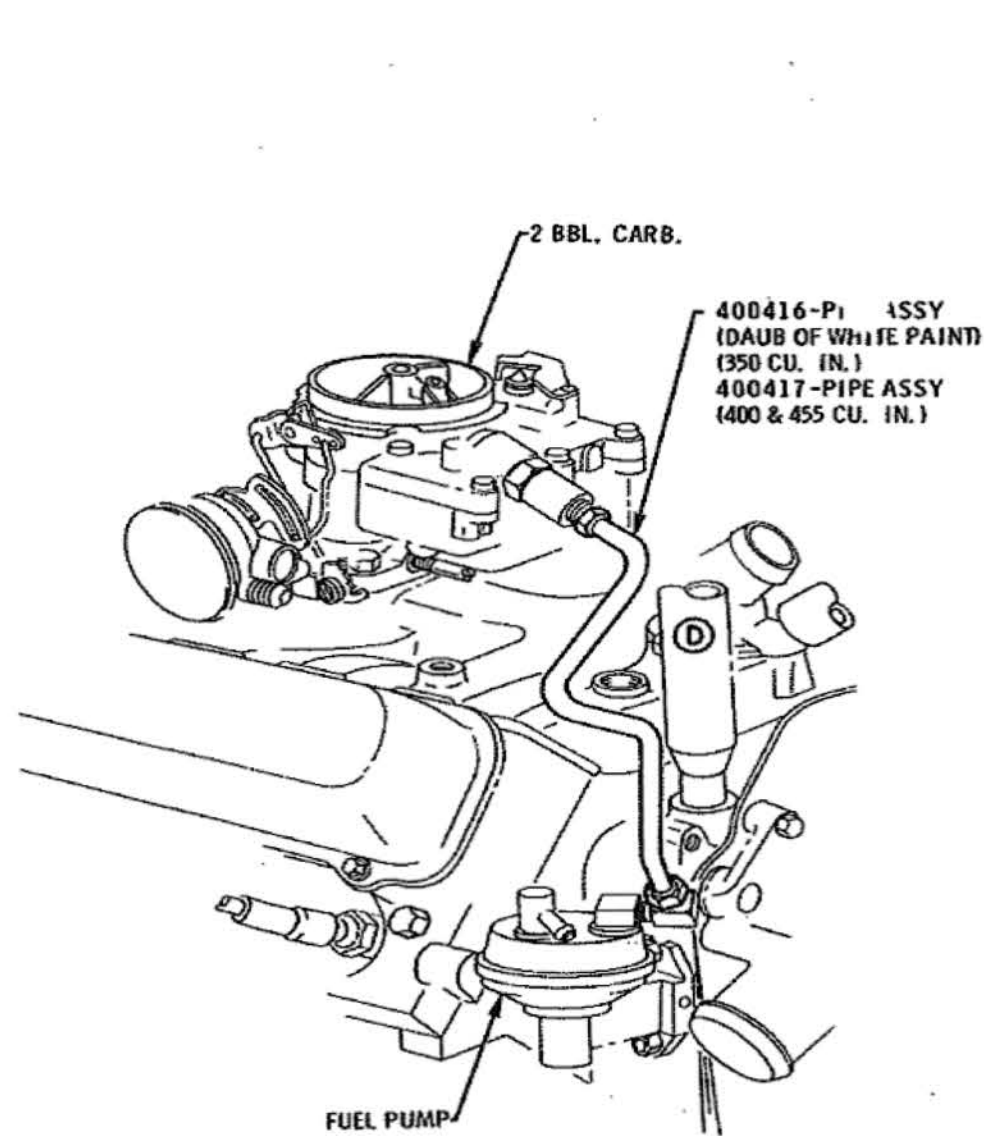
(M)



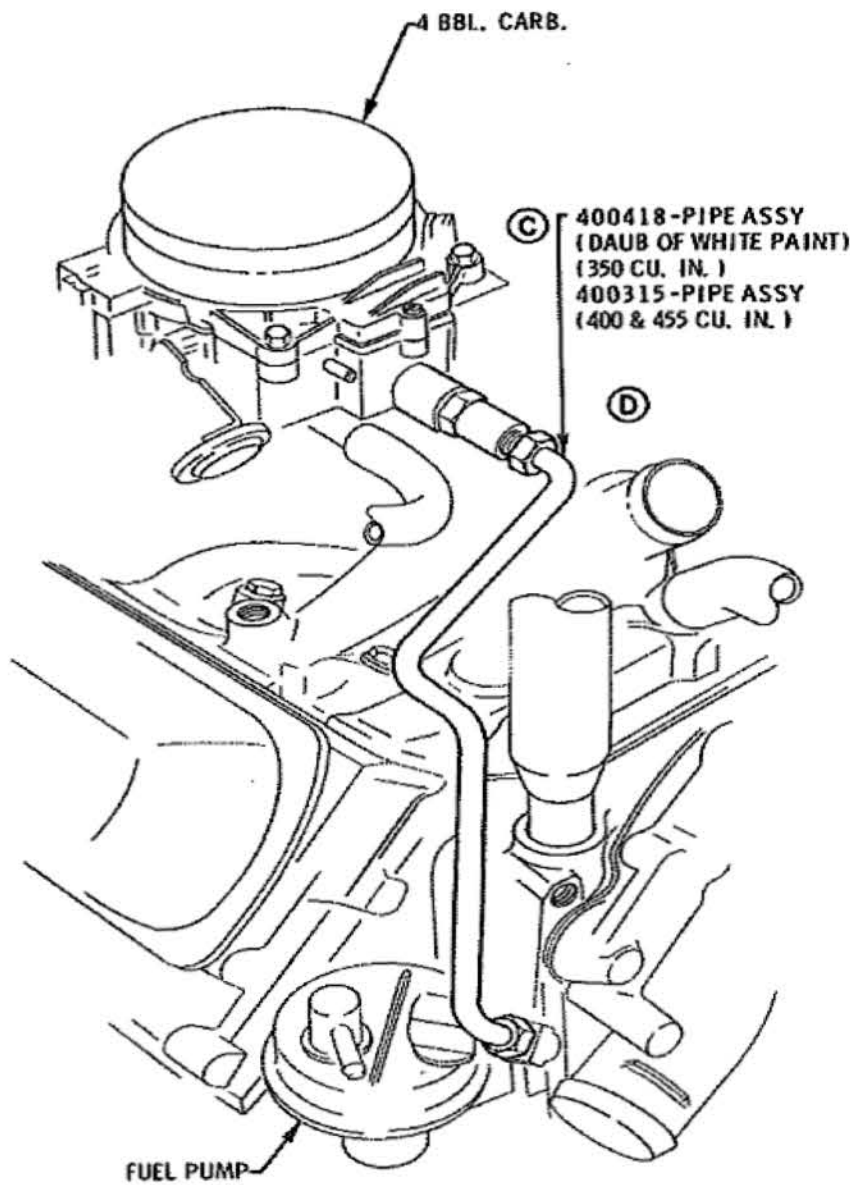
TYPICAL SPARK PLUG
CABLE ROUTING L. H. SIDE

⚠ 25 - 35 LB. FT.

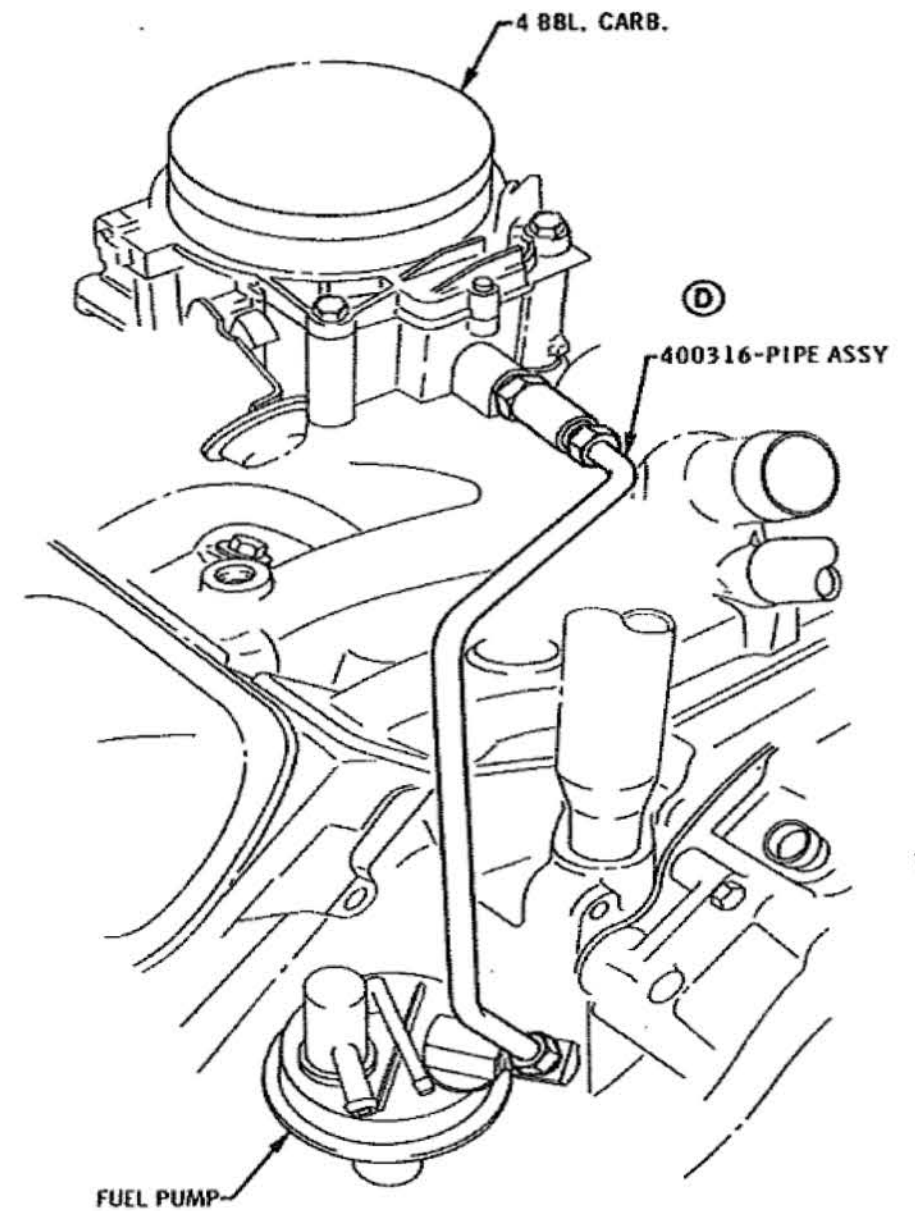
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-11-67	K	654 POLICE ENG. REVISED	OMP		5-29-67	E	BRACKET REVISED	OMP			SPARK PLUGS, CABLE ROUTING AND BRACKETS	1968	6N2	6-0	132
				8-25-67	J	VIEW REVISED	OMP			4-13-67	D	CHART REVISED	OMP		DATE JANUARY 24, 1967					
				6-28-67	H	TORQUE SPECS. ADDED	ER			4-13-67	C	VIEW REMOVED	OMP		DR. BY CUET MAY					
				6-19-67	G	WAS 2986231	OMP			4-13-67	B	PART NO'S ADDED	OMP		CHECKED JMBarnhart					
11-16-67	M	VIEW REV	OMP		6-14-67	F	6289080 WAS 6289880	OMP		3-3-67	A ₂	PART NO'S ADDED	OMP		APPR. J. J. Ford	REF. 6Y4		SERIES	PART NO.	
																A-B-C		398162-3		



INSTALLATION
PIPE ASSY FUEL PUMP
TO 2 BBL. CARBURETOR
"A" & "B" ENGINES ONLY



INSTALLATION
PIPE ASSY FUEL PUMP
TO 4 BBL. CARBURETOR
"A" & "B-C" ENGINES ONLY



INSTALLATION
PIPE ASSY FUEL PUMP
TO CARBURETOR
"E" ENGINE ONLY

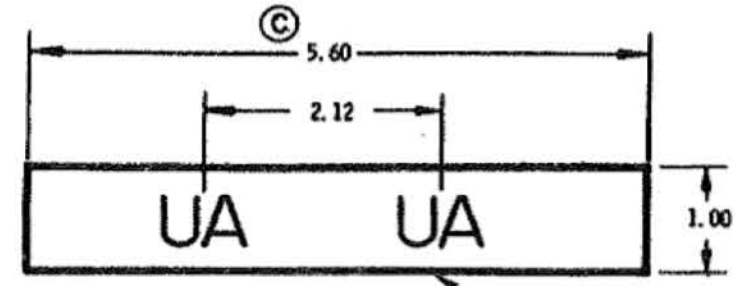
B BLOW OUT MAIN FUEL LINE JUST PRIOR TO INSTALLATION, WITH FILTERED AIR, USING A MINIMUM OF 30 P. S. I. AIR PRESSURE TO INSURE REMOVAL OF ANY FOREIGN MATTER.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					11-15-67	D3	BACKGROUND REVISED	PLM								DATE MARCH 30, 1967	1968		6-0	133
					6-7-67	C	IDENT. NOTE ADDED	SLM								DR. BY CUET MAY				
					6-7-67	B	NOTE ADDED	SLM								CHECKED MYBarnhart				
					4-21-67	A	IDENT. NOTE ADDED	SLM								APPR. J. L. Pond				
																REF. 6M2				
																35L65-L74-L76-L77-L78		SERIES A-B-C-E	PART NO. 398162-3-4	

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING -- MICHIGAN

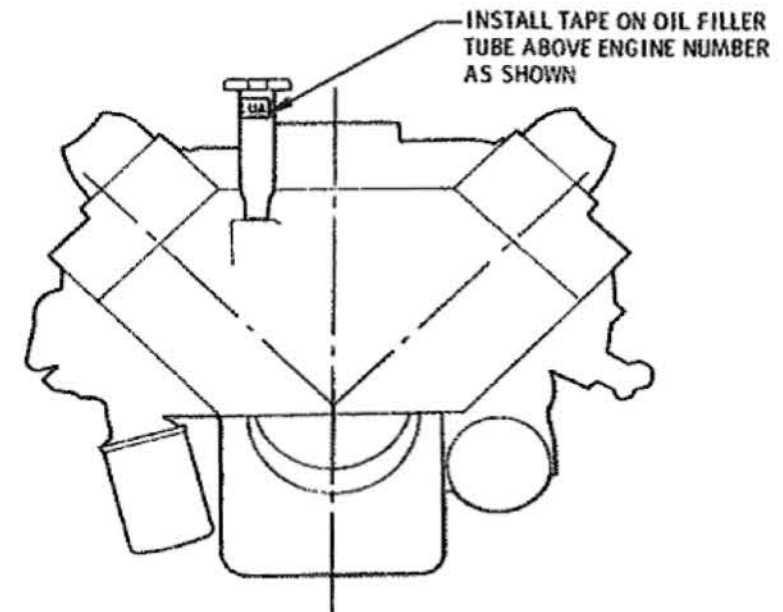
W. CARROLL, INC. 4874

PART NUMBER	UPC GROUP	PROD. CODE	TRANSMISSION		CARBURETOR		COMPRESSION RATIO			AIR CONDITION © C60, C61, Y72
			SYNCHROMESH	AUTOMATIC	2 BARREL	4 BARREL	EXPORT	LOW	HIGH	
350 CUBIC INCH	400292	C60	TB		X			X		X
	400293	M33	TD		X			X		
	400294	6	TL	X		X		X		
	400295	C60	TN		X		X		X	X
455 CUBIC INCH	400296	M40	UA		X				X	
	400297	C60	UB		X				X	X
	400298	M40	UC		X			X		
	400299	C60	UD		X			X		X
	400300	L90	UE		X			X		
	400301	6	UJ	X		X		X		
	400302	L90	UK	X		X		X		
	400303	M40	UN		X		X		X	
	400304	C60	UO		X		X		X	X
	400305	L90	UR		X		X	X		
(B)	401861	L76	UL		X		X		X	
TORONADO	400306	6	US		X		X		X	
	400307	C60	UT		X		X		X	X
	400308	C60	UV		X		X		X	X
	(A)	401245	W34	UW		X		X		X



TAPE TO HAVE RED LETTERS ON WHITE BACKGROUND

TYPE OF TAPE TO BE DETERMINED BY MANUFACTURING



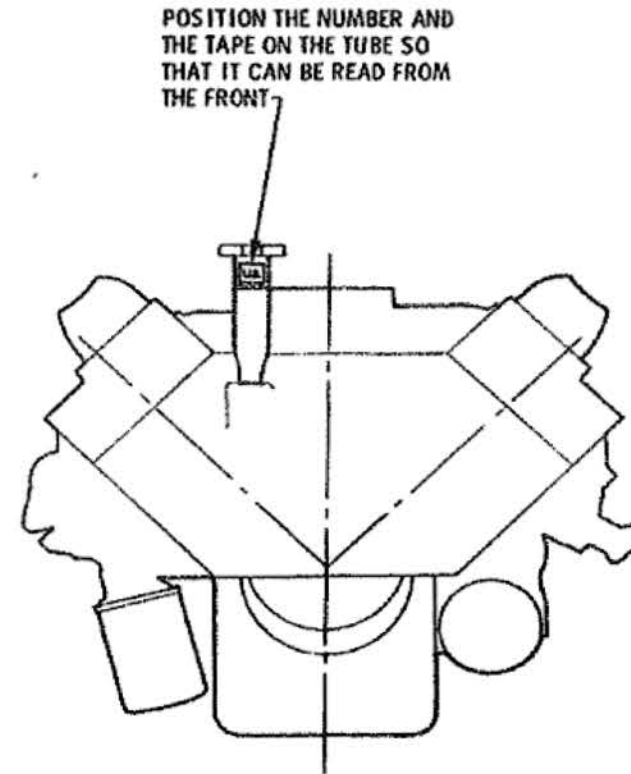
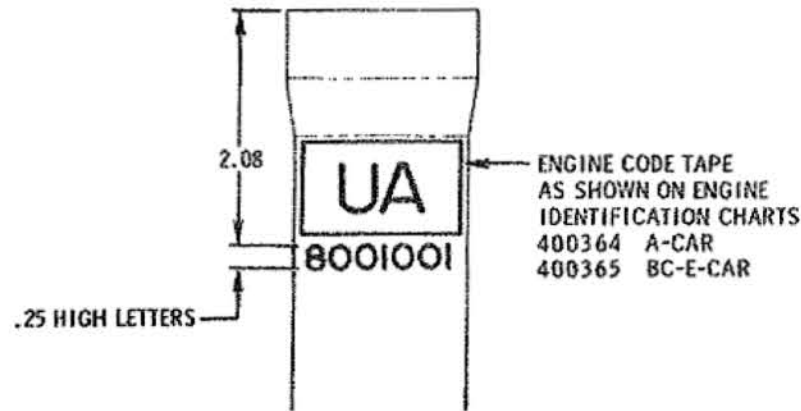
INSTALL TAPE ON OIL FILLER TUBE ABOVE ENGINE NUMBER AS SHOWN

350 AND 455 CUBIC INCH ENGINE ASSEMBLIES

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

TITLE		CHART-ENGINE IDENTIFICATION				
DATE	FEB. 28 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. 6-1	PAGE 100
DR. BY	BILL SCHMIDT	CHECKED	DON MALKIN	APPR.		
SERIES	B-C-E	PART NO.	400365			

ALL ENGINES WILL BE NUMBERED CONSECUTIVELY STARTING WITH 8001001. THE ENGINE CODE TAPE WILL BE INSTALLED DIRECTLY ABOVE THE ENGINE NUMBER WHICH IS TO BE STAMPED ON THE ENGINE OIL FILL TUBE AS SHOWN.



THE COMPLETE ENGINE NUMBER SHALL CONSIST OF THE ENGINE CODE FOLLOWED BY THE SEVEN DIGIT NUMBER.

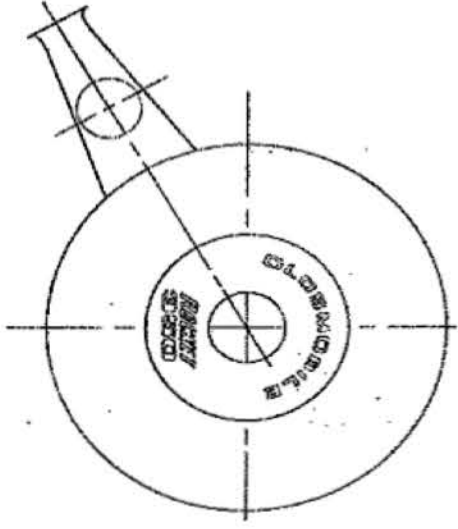
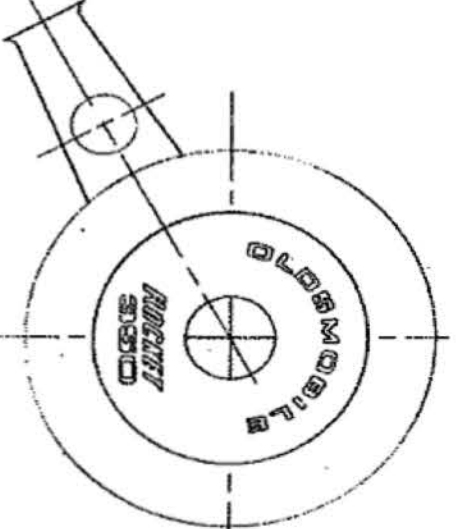
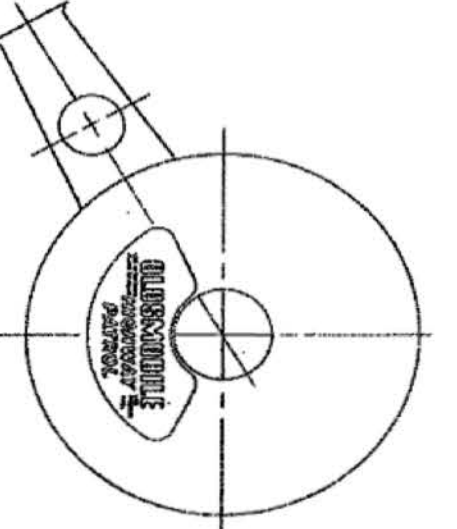
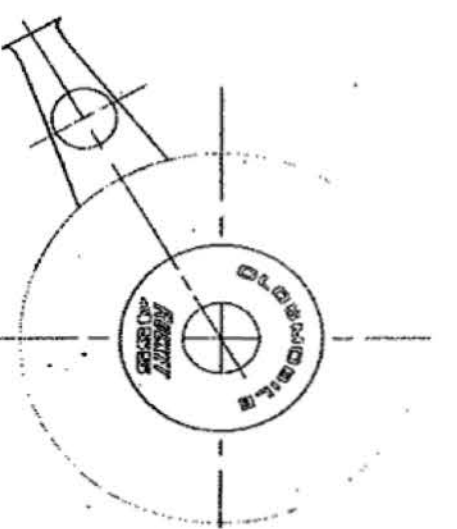
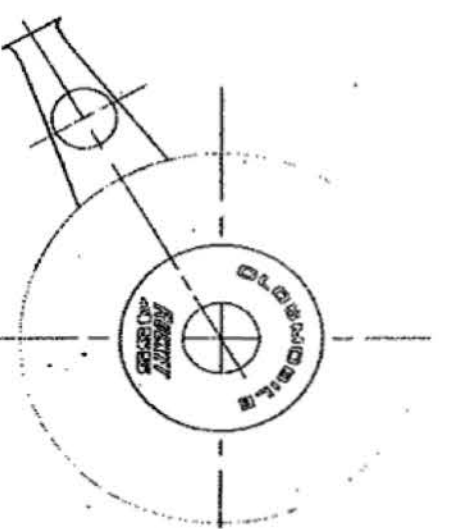
EXAMPLE: UA 8001001
 ↑ ↑ ↑
 YEAR UNIT
 CODE

NOTE: THIS NUMBER IS USED FOR MANUFACTURING AND SERVICE ONLY. IT IS NOT INTENDED FOR ANY LEGAL USE.

										TITLE					
										CHART - MANUFACTURING ENGINE NUMBER					
					DATE <i>MAR 21, 1967</i>					FIRST USED	OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE
					DR. BY <i>B.R. POKER</i>					1968	INFORMATION MANUAL		6-1		102
					CHECKED <i>J.N. FAMES</i>					REF.	SERIES	PART NO.			
					APPR. <i>D.V. McPherson</i>						ABCE		400960		
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

R. GARFOLA, INC. PHOT.

ENGINE & COLOR	COMPRESSION RATIO	ENGINE CODE	AIR CLEANER (A)		PART NO. & ASM. CODE	COLOR	AIR CLEANER POSITION FRONT
			LABEL	LABEL CLAMP			
350 C. I. D. ROCKET 2 BBL GOLD	REGULAR FUEL LOW	TB TD TL	400643	400652	6424834 CODE OA	BLACK	
		QC QK	NONE	NONE			
350 C. I. D. ROCKET 4 BBL GOLD	PREMIUM FUEL HIGH	TN	400644	392290	6424834 CODE OE	RED	
350 C. I. D. HIGHWAY PATROL 4 BBL GOLD	PREMIUM FUEL HIGH	TN	400651	NONE	6424834 CODE OE	RED	
455 C. I. D. ROCKET 2 BBL RED	PREMIUM FUEL HIGH	UA UB	400648	400652	6424833 CODE OC	RED	
		UC UD UU					
	REGULAR FUEL LOW	UE UK	NONE	NONE	6483915 CODE OA	BLACK	
	EXPORT LOW						

SHEET 1 OF 2

TITLE										CHART - ENGINE APPEARANCE							
DATE <i>APRIL 7, 1967</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
DR. BY <i>DON MALKIN</i>										1968		INFORMATION MANUAL		6-1		103	
CHECKED <i>D. LAFOND</i>										REF.		SERIES		PART NO.			
62067 A COLUMN REVISED												B-C		401031			
DATE	CVU	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	APPR.	APPR.	APPR.	APPR.	APPR.

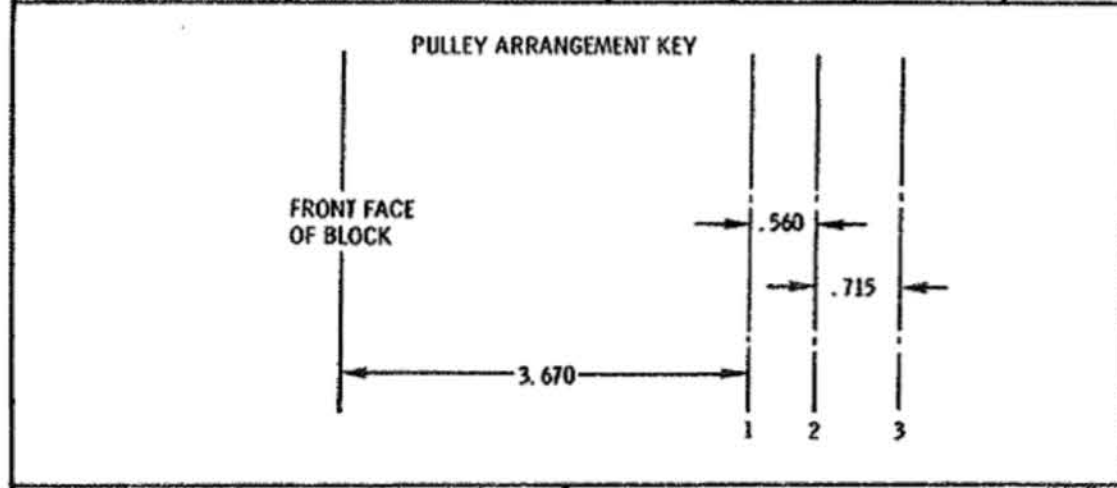
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

44 362002 LWF 11006

1968 PRODUCTION DRIVE BELTS		
CODE	PART NO.	BELT LENGTH
MM	399594	44.11
MN	399595	45.19
MO	399596	49.14
MP	399597	49.86
MQ	399598	51.50
MR	399599	52.26
MS	399626	54.83
MT	399627	55.26
MU	398926	57.23
MV	399628	57.56
MI	401473	58.20
MW	398927	59.70
MZ	401475	60.60
MY	398929	62.95

1968 PRODUCTION PULLEYS							
CODE	PART NO.	DESCRIPTION	P. D.	O. D.	NO. OF GROOVES	CAR	
E KA	401462	FAN & WATER PUMP	6.98	7.075	2	STD. (W30)	
KB	399402	FAN DRIVE	6.34	6.435	2	STD.	
KC	399405	FAN DRIVE	7.32	7.415	3	A/C	
KD	399399	FAN & WATER PUMP	6.98	7.075	1	STD.	
KE	399401	FAN & WATER PUMP	6.98	7.075	2	STD.	
KF	399404	FAN & WATER PUMP	6.00	6.095	3	A/C	
KG	399403	POWER STEERING PUMP	5.610	5.705	1	STD.	
KH	399406	POWER STEERING PUMP	6.480	6.575	2	A/C	

1968 PRODUCTION DRIVE RATIOS		
PULLEY	RATIOS	USAGE
CRANK FAN	$\frac{6.34}{6.98} = .9083$ TO 1	STANDARD
CRANK FAN	$\frac{7.32}{6.00} = 1.22$ TO 1	AIR CONDITIONING
CRANK GENERATOR	$\frac{6.34}{2.50} = 2.536$ TO 1	STANDARD
CRANK GENERATOR	$\frac{7.32}{2.50} = 2.928$ TO 1	AIR CONDITIONING
CRANK POWER STEERING	$\frac{6.34}{5.61} = 1.130$ TO 1	STANDARD
CRANK POWER STEERING	$\frac{7.32}{6.48} = 1.1296$ TO 1	AIR CONDITIONING
CRANK COMPRESSOR	$\frac{7.32}{4.26} = 1.718$ TO 1	AIR CONDITIONING
D CRANK COMPRESSOR	$\frac{7.32}{5.00} = 1.464$ TO 1	AIR CONDITIONING



BELT TENSION

BELT TENSION TO CHECK 110/125# ON BURROUGHS TOOL 33-95 ON INSTALLATION. TO CHECK 70# MINIMUM AFTER CAR HAS BEEN RUN ON TEST ROLLS. (F) (G)

FOR PULLEY & BELT DIAGRAM INFORMATION, REFER TO CHARTS
400408 (A CAR)
400409 (B&C CAR)
400410 (E CAR)

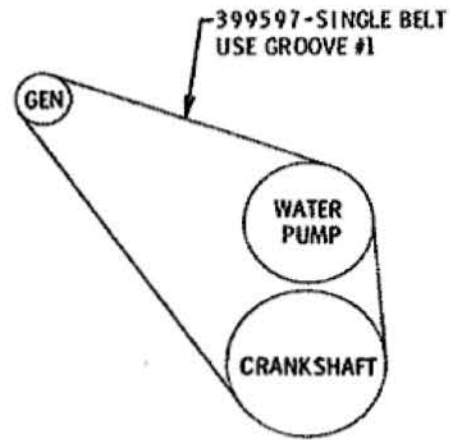
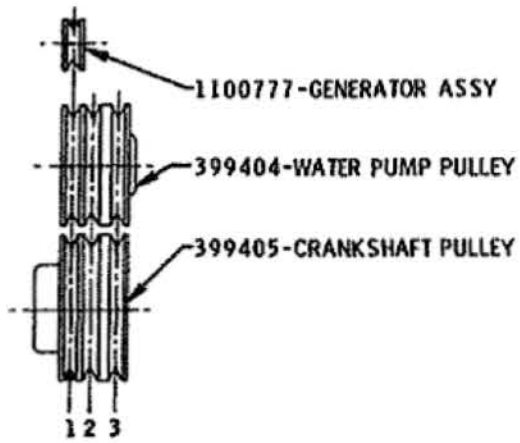
WHENEVER THE COMBINATION OF P/S PUMP & GENERATOR ARE ON THE LEFT SIDE OF ENGINE, THE P/S PUMP BELT MUST BE ADJUSTED TO TENSION BEFORE TIGHTENING THE GENERATOR BELT.

1968 PRODUCTION GENERATORS					
CODE	PART NO.	AMPS	PULLEY		
			NO. OF GROOVES	P. D.	O. D.
AC	1100734	42	1	2.50	2.62
AJ	1100777	55	1	2.50	2.62
AG	1100767	37	1	2.50	2.62
H AP	1100856	63	1	2.50	2.62

V-8 ENGINES SHEET 1 OF 2

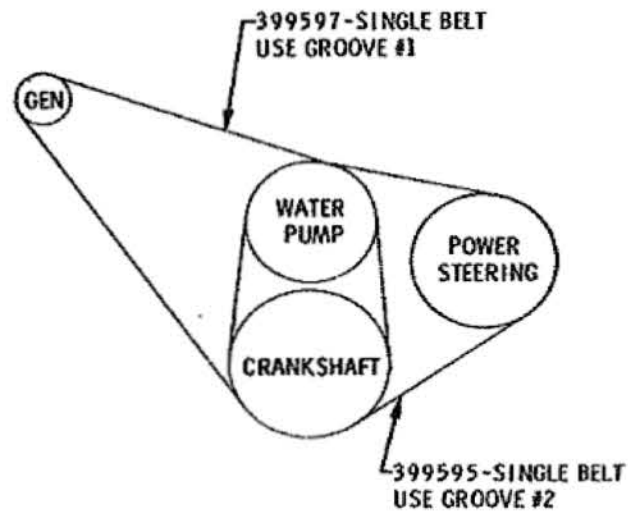
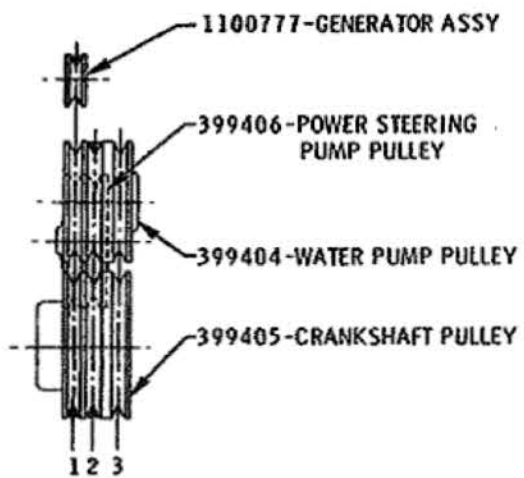
CHART-PULLEY & BELT DATA											
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM
		7.19.67 E			401462	ADDED					
		6.26.67 D			RATIO	ADDED					
		5.15.68 H			1100856	ADDED					
		12.27.67 G			NOTE	REVISED					
		10.5.67 F			WAS GAGE	#33-70					

TITLE	CHART-PULLEY & BELT DATA	DATE	DEC 5, 1966	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	6-1	PAGE	110
DR. BY	B. R. PARKER	CHECKED	J. J. FORD	SERIES	ABCE	PART NO.	400407			



HEAVY DUTY GENERATOR

FOR ADDITIONAL PULLEY & BELT
DRIVE INFORMATION, SEE
PULLEY & BELT DATA CHART 400407



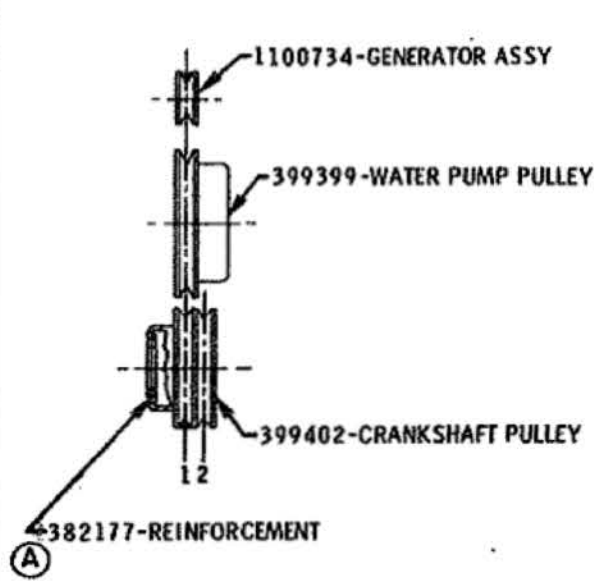
HEAVY DUTY GENERATOR
WITH
POWER STEERING

ENGINE-350 CU. IN. V8

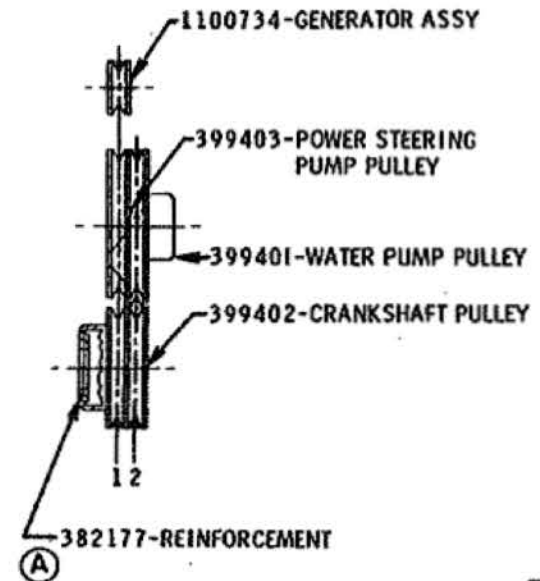
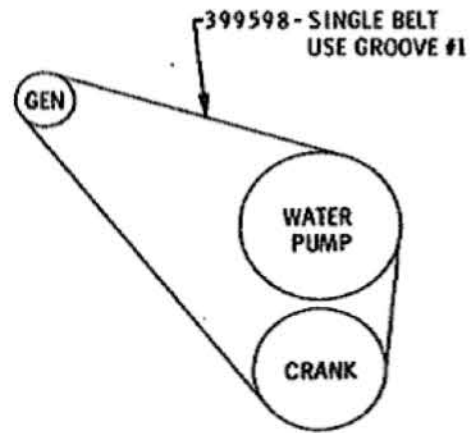
COLOR-GOLD

SHEET 2

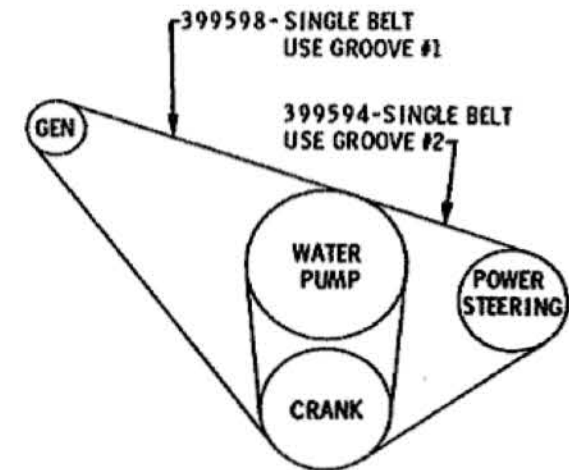
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.																																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="12">TITLE CHART - PULLEY & BELT DIAGRAM</td> <td>DATE <i>DEC. 7, 1966</i></td> <td>FIRST USED</td> <td>OLDSMOBILE PRODUCT</td> <td>MANUAL SECTION</td> <td>PAGE</td> </tr> <tr> <td colspan="12"></td> <td>DR. BY <i>B. R. PARKER</i></td> <td>1968</td> <td>INFORMATION MANUAL</td> <td>6-1</td> <td>112</td> </tr> <tr> <td colspan="12"></td> <td>CHECKED <i>C. B. BELL</i></td> <td>REF.</td> <td>SERIES</td> <td>PART NO.</td> </tr> <tr> <td colspan="12"></td> <td>APPR.</td> <td></td> <td>B</td> <td>400409</td> </tr> <tr> <td colspan="12"></td> <td>APPR.</td> <td></td> <td></td> <td></td> </tr> </table>																TITLE CHART - PULLEY & BELT DIAGRAM												DATE <i>DEC. 7, 1966</i>	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE													DR. BY <i>B. R. PARKER</i>	1968	INFORMATION MANUAL	6-1	112													CHECKED <i>C. B. BELL</i>	REF.	SERIES	PART NO.													APPR.		B	400409													APPR.			
TITLE CHART - PULLEY & BELT DIAGRAM												DATE <i>DEC. 7, 1966</i>	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE																																																																																	
												DR. BY <i>B. R. PARKER</i>	1968	INFORMATION MANUAL	6-1	112																																																																																	
												CHECKED <i>C. B. BELL</i>	REF.	SERIES	PART NO.																																																																																		
												APPR.		B	400409																																																																																		
												APPR.																																																																																					



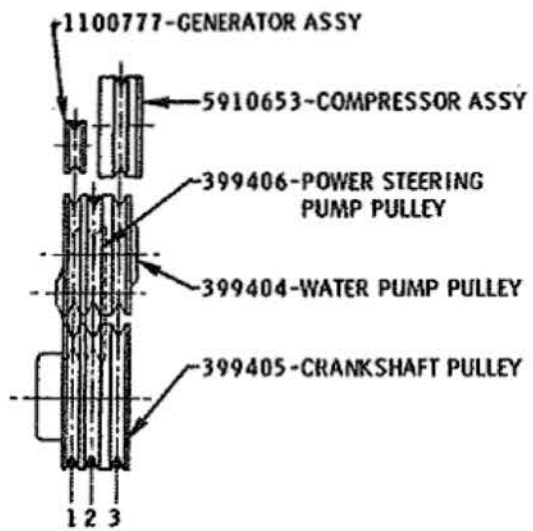
STANDARD



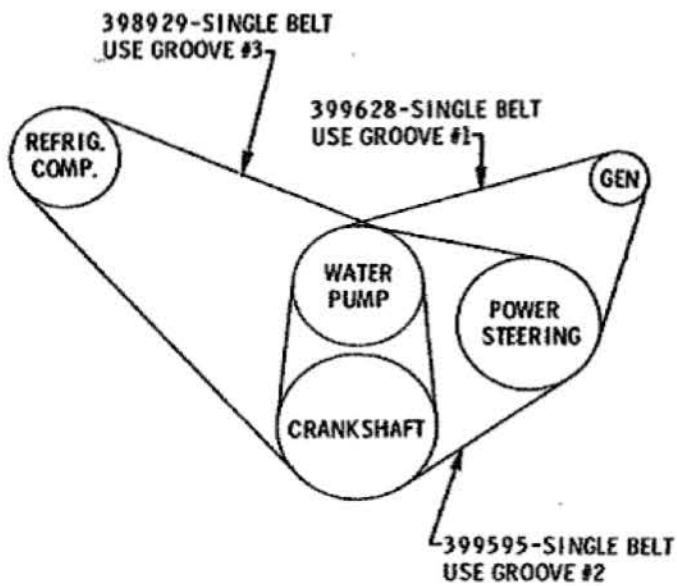
POWER STEERING



FOR ADDITIONAL PULLEY & BELT
DRIVE INFORMATION, SEE
PULLEY & BELT DATA CHART 400407



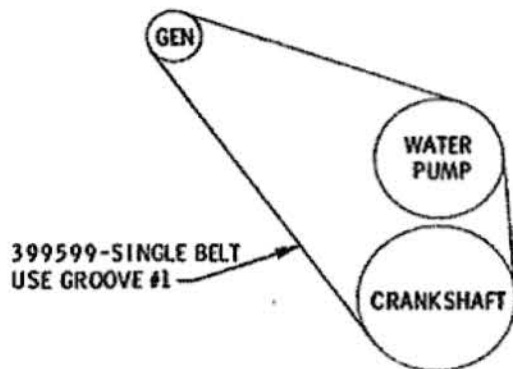
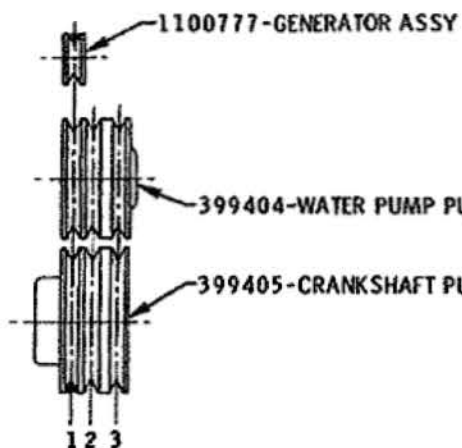
**POWER STEERING
WITH
AIR CONDITIONING**



ENGINE-455 CU. IN. V8
COLOR-RED

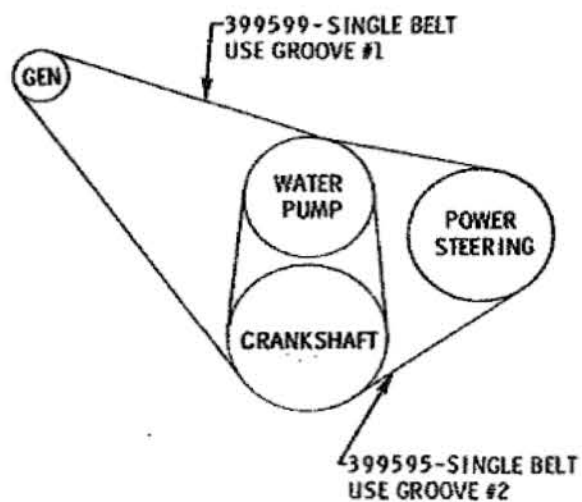
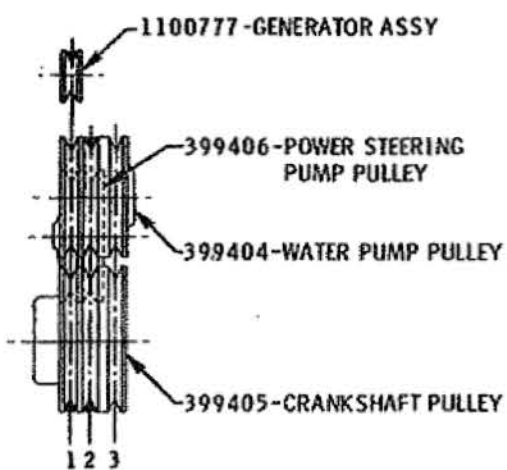
SHEET 3

TITLE CHART - PULLEY & BELT DIAGRAM										
DATE	DEC. 7, 1966	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	6-1	PAGE	113		
DR. BY	B. R. PARKER	CHECKED	D. J. F. L.	REF.	SERIES	B-C	PART NO.	400409		
4067#2 382177-REINF. ADDED 382177-REINF. ADDED 382177-REINF. ADDED										



HEAVY DUTY GENERATOR

FOR ADDITIONAL PULLEY & BELT
DRIVE INFORMATION, SEE
PULLEY & BELT DATA CHART 400407



HEAVY DUTY GENERATOR
WITH
POWER STEERING

ENGINE-455 CU. IN. V8
COLOR-RED

SHEET 4

TITLE					CHART - PULLEY & BELT DIAGRAM				
DATE	DR. BY	CHECKED	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE		
DEC. 7, 1966	B. E. PARKER	J. L. ...		1968		6-1	114		
REF.					SERIES	PART NO.			
						400409			

**1968 350 & 455 CUBIC INCH ENGINE ASSEMBLY
CONVERSION PROCEDURES**

FOR CONVERTING B/C CAR S. M. & EXPORT
ENGINES TO Y72, THE FOLLOWING IS REQUIRED

ENGINE	ITEM	REMOVE	ADD
★ ALL	BODY ASSEMBLY - WATER PUMP	403034 (E)	403035 (F)
ALL	GASKET - WATER PUMP	385936 (SCRAP)	385936
★ UE-UJ-UK-UR	OUTLET - WATER	386129	392099
UE-UJ-UK-UR	GASKET - WATER OUTLET	382544 (SCRAP)	382544
ALL	SWITCH ASSEMBLY - THERMO. VACUUM	103880 (PLUG)	403398 (H)
TL-UJ-1JK-QK	ELBOW - VACUUM	103877	393030
TL-UE-UJ-UK-QK-QC	HOSE - DISTRIBUTOR VACUUM	575712	393588
TL-UE-UJ-UK-QK-QC	HOSE - THERMO. VAC. SWITCH TO 2 BARREL CARB.	- -	400509
UR	HOSE - THERMO. VAC. SWITCH TO 4 BARREL CARB.	- -	393586
QC-UE-UR	TEE - RUBBER VACUUM	- -	574372
QC-UE-UR	CONNECTOR - TEE TO VACUUM HOSE (2 REQUIRED)	- -	575714

CONVERT 455 CUBIC INCH TO 35K66 BY THE FOLLOWING

ITEM	REMOVE	INSTALL
SPARK PLUGS (8) (EXC. L66, L74, L76)	5611000 (455)	5611421
SPARK PLUGS (8) (WITH L66, L74)	5610857 (445)	5611420
SPARK PLUGS (8) (WITH L76)	5611050 (435)	5611425
DISTRIBUTOR ASSY-IGNITION (EXC. L66, L74, L76)	1111288	1111291
DISTRIBUTOR ASSY-IGNITION (WITH L66, L74, L76)	1111289	1111292
(C) DISTRIBUTOR ASSY- "O" RING SEAL	- -	383524

CONVERT 455 CUBIC INCH TO 35N10 BY THE FOLLOWING

ITEM	REMOVE	INSTALL
MANIFOLD ASSY-EXHAUST L.H.	393229	393233

FOR CONVERTING B/C CAR A/C ENGINES TO Y72 EXC. C60
THE FOLLOWING IS REQUIRED

ENGINE	ITEM	REMOVE	ADD
UB-UD-UO	PUMP ASSEMBLY - FUEL	6440523	6440522
ALL	BRACKET - GENERATOR	- -	397209
ALL	BOLT - GENERATOR BRKT. TO CYL. HEAD	- -	9418822
TN-UB-UD-UO	DASHPOT ASSEMBLY - SLOW IDLE	401159	- -
TN-UB-UD-UO	BRACKET - DASHPOT	399625	- -
TN-UB-UD-UO	NUT - DASHPOT TO BRACKET	9418892	- -
★ ★ TN-UB-UD-UO	BOLT - DASHPOT MOUNTING HOLE PLUG	9419029	9419029
UB-UD-UO	NIPPLE - HEATER HOSE	- -	399467

FOR CONVERTING L76 ENGINE (UL)
FROM STANDARD TO A/C, THE FOLLOWING IS REQUIRED

ITEM	REMOVE	ADD
(G) DASHPOT ASSEMBLY - SLOW IDLE	- -	401159
BRACKET - DASHPOT	- -	399625
NUT - DASHPOT TO BRACKET	- -	9418892
BOLT - DASHPOT BRKT. TO INT. MANIFOLD	9419029	9419029 ★★
BRACKET - GENERATOR	397209	- -
BOLT - GENERATOR BRKT. TO CYL. HEAD (3)	9418822	- -
NIPPLE - HEATER HOSE	399467	- -

★ THESE PARTS TO BE PAINTED WITH ENGINE ENAMEL

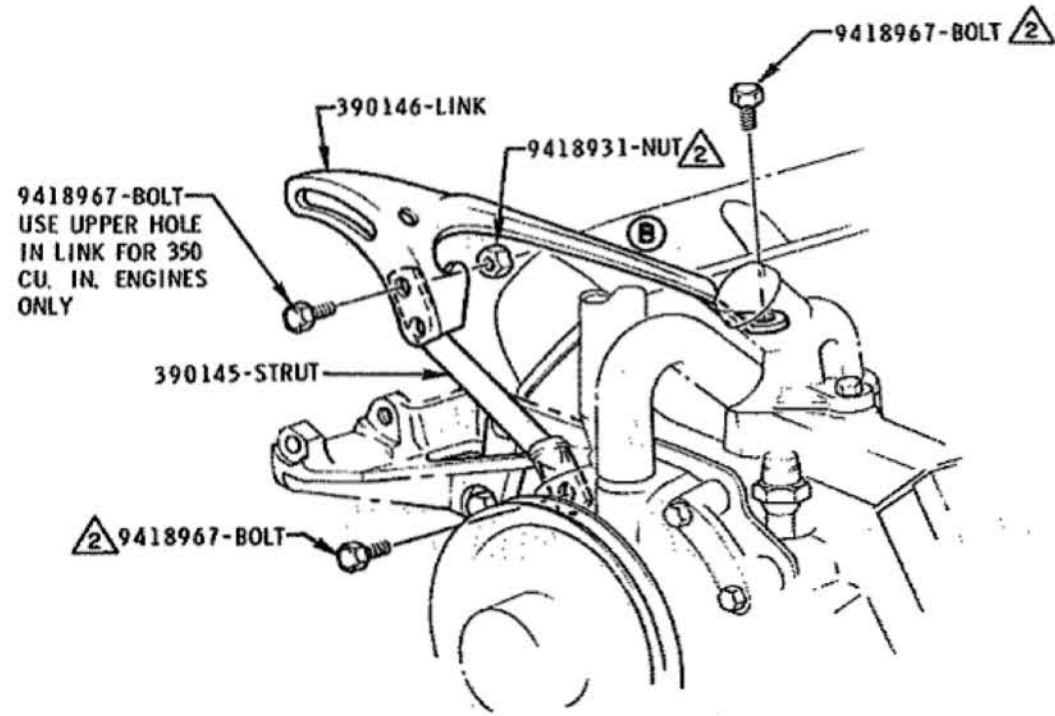
★ ★ REUSE EXISTING BOLT

350 & 455 CUBIC INCH ENGINE

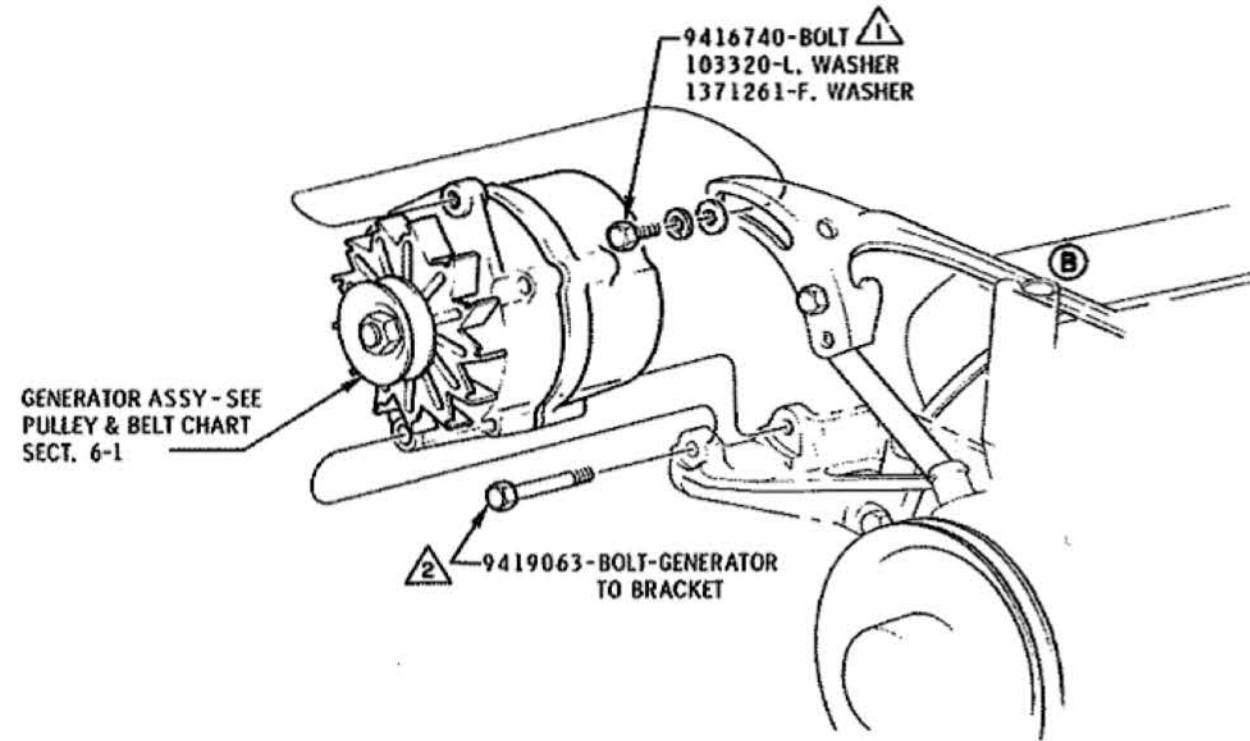
SHEET 2

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION

TITLE				CHART-ENGINE CONVERSION			
1156B E WAS 398701 12467 D REVISED				DATE MAR 23 1967			
3166E H WAS 3019392 12 JAB 2367 C 383524 "O" RING SEAL ADDED				FIRST USED 1968			
2146B G PUMP REMOVED 15 JAB 2367 B 455 CU. IN. ENGINE REMOVED				DR. BY B. SCHMIDT			
1156B F WAS 399630 15 JAB 14-67 A REVISED				CHECKED J. FINES			
				APP. D. MCCORMACK			
				SERIES B-C			
				PART NO. 401008			
				MANUAL SEC. PAGE 6-1 121			



INSTALLATION OF GENERATOR SUPPORTING PARTS

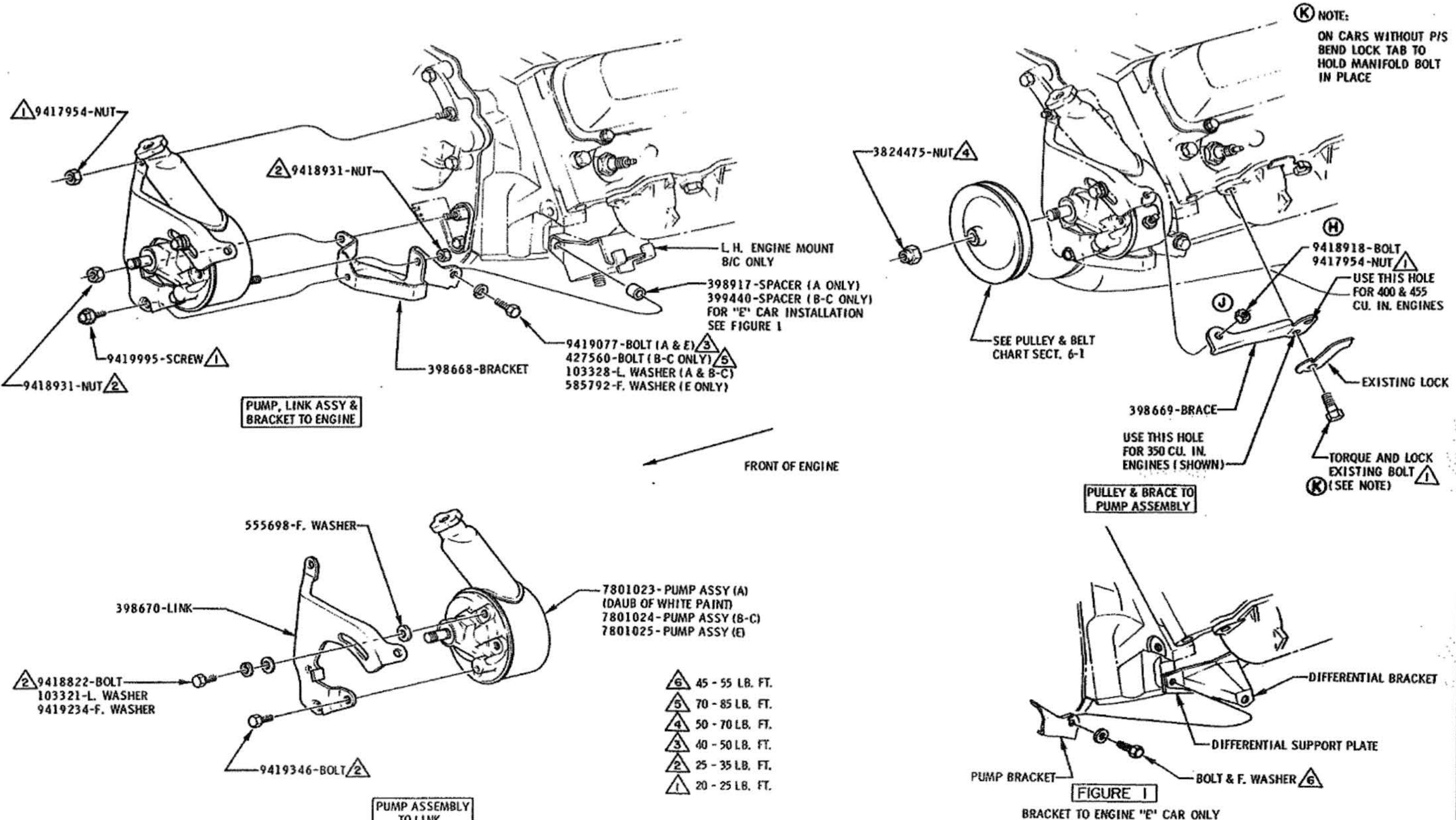


GENERATOR TO BRACKETS

1 20 - 25 LB. FT.
2 25 - 35 LB. FT.

(EXC. AIR CONDITIONING)

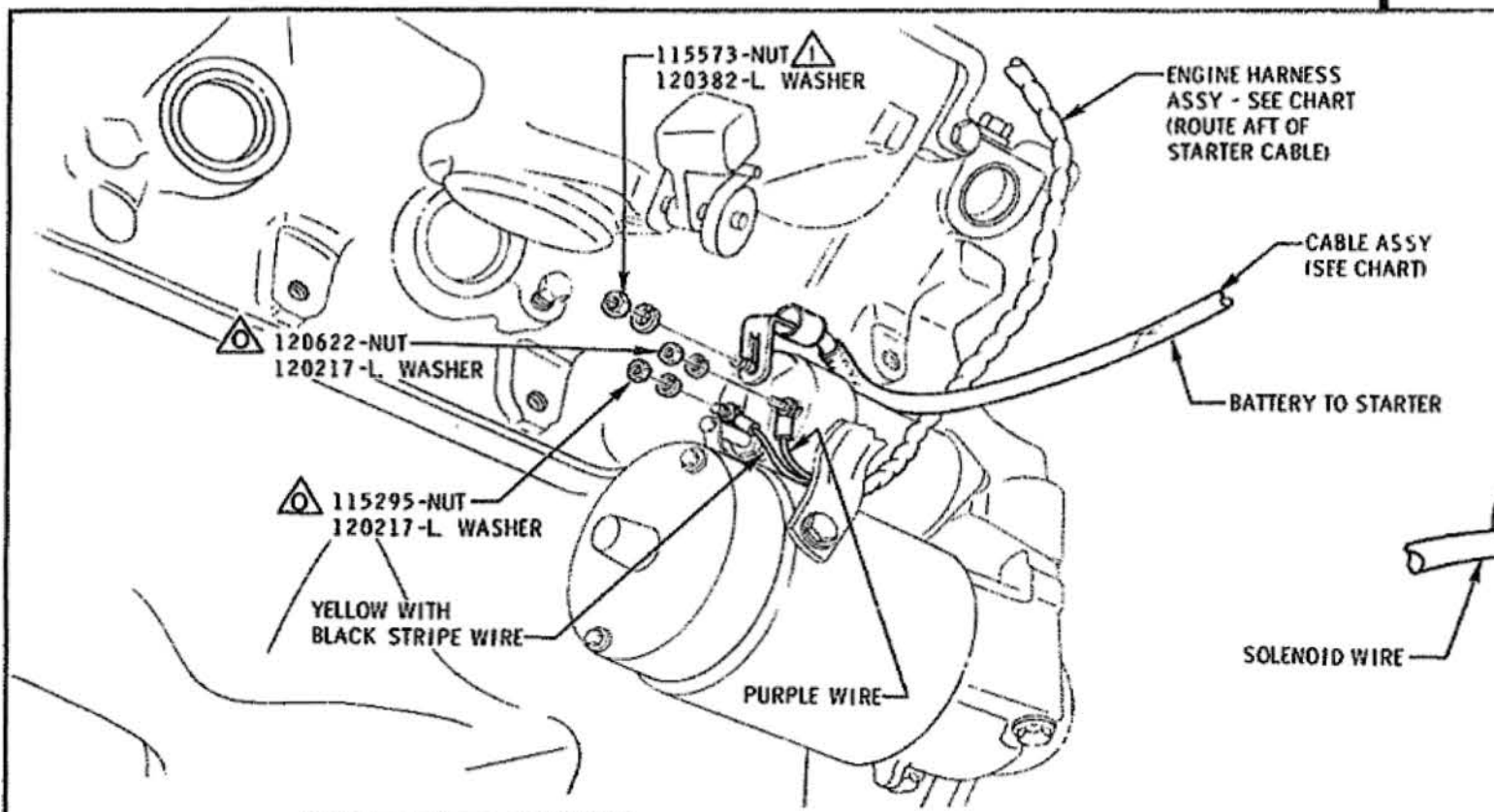
TITLE GENERATOR MOUNTING													
DATE NOVEMBER 18, 1966						FIRST USED 1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION 6-1		PAGE 125	
DR. BY CJRT MAY						CHECKED MZ Barnhart		APPR. J. L. Fink		REF.		SERIES A B C E	
11-16-67 B2 BACKGROUND REVISED PL MZ						6-28-67 A TORQUE SPECS. ADDED PL MZ		6Y1		398162-3-4			
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM



- △6 45 - 55 LB. FT.
- △5 70 - 85 LB. FT.
- △4 50 - 70 LB. FT.
- △3 40 - 50 LB. FT.
- △2 25 - 35 LB. FT.
- △1 20 - 25 LB. FT.

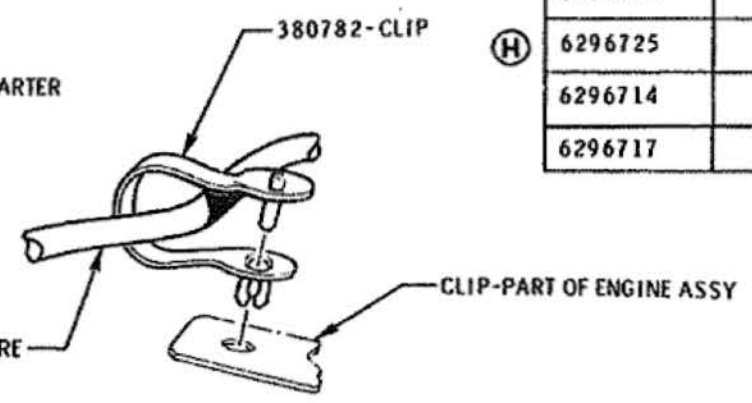
FIGURE 1
BRACKET TO ENGINE "E" CAR ONLY

			1-19-68	K2	NOTE ADDED	CM/MS	5-19-67	E	COLOR CODE ADDED	5/24/68	MB	TITLE	POWER STEERING PUMP AND BRACKETS			
			11-27-67	J	FASTENING REVERSED	CM/MS	5-1-67	D	WAS 9419995 - SCREW	CM/MS	MB	DATE NOVEMBER 11, 1966	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE
			11-14-67	H	WAS 9417950 - BOLT	CM/MS	5-1-67	C2	NOTE ADDED	CM/MS	MB	DR. BY CURT MAY	1968	INFORMATION MANUAL	6-1	126
			8-10-67	G	WAS TORQUE △	CM/MS	5-1-67	B2	NOTES REVISED	CM/MS	MB	CHECKED M. Barnhart	REF.	A & B (35N401)	SERIES	300100 7 4
			7-10-67	F	TORQUE SPECS. ADDED	CM/MS	2-2-67	A2	PART NOS REV	CM/MS	MB	APPR. J. R. [Signature]				

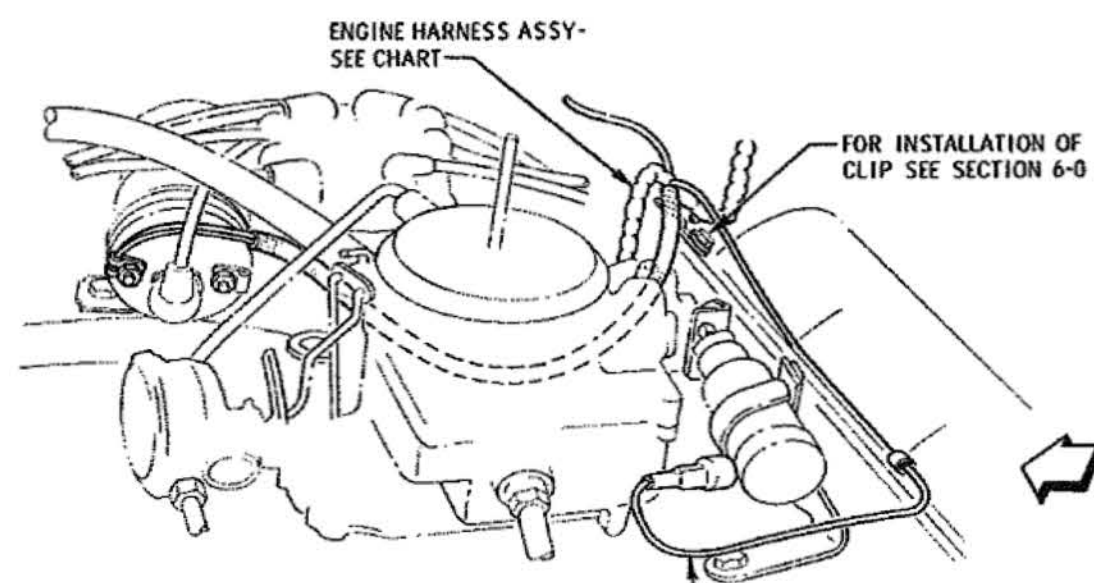


STARTER CABLE & HARNESS TO STARTER

BATTERY CABLE ASSY CHART			
PART NO.	CODE	CAR	USAGE
6289174	GZ	"A"	ALL 400 CU. IN. ENGINES AMT 350 CU. IN. 4BBL. ENGINES
6296724	KB	"B/C"	56, 64, 6600 WITH AMT ALL 84, 8600
6289179	GS	"A"	SMT 350 CU. IN. ENGINES
6296725	KC	"B/C"	5400 WITH AMT
6296714	GV	"A"	AMT 350 CU. IN. 2BBL. ENGINES
6296717	KF	"B/C"	54, 56, 64, 6600 EXC. AMT



VIEW A

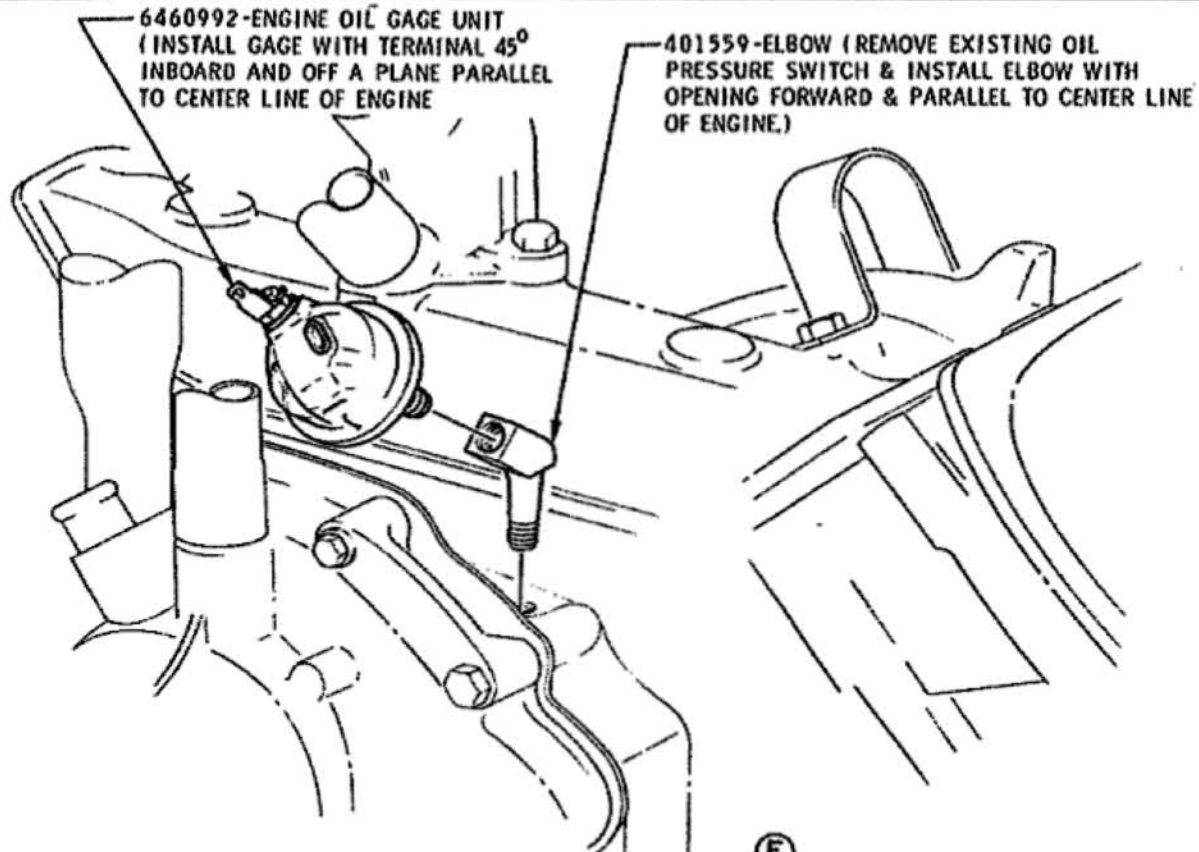


INSTALLATION ENGINE HARNESS TO ENGINE

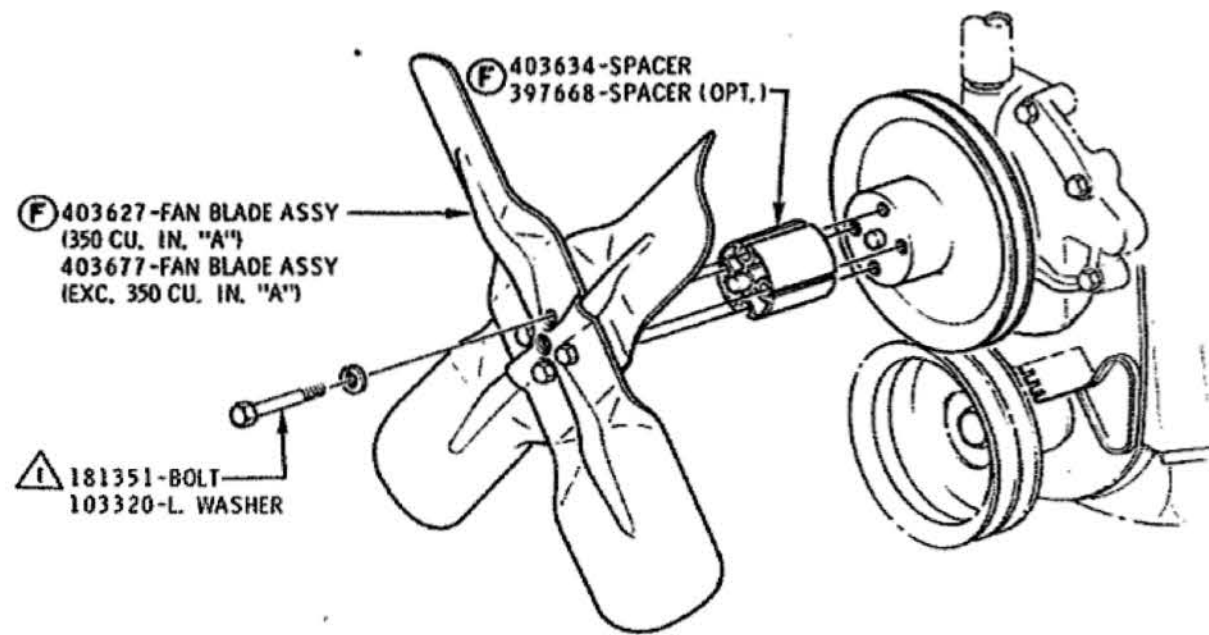
ENGINE HARNESS ASSY CHART				
PART NO.	CODE	ENGINE	GROUP	MODEL & USAGE
6295965	FF	350 CU. IN. 2 BBL.	12H	32, 36 & 4800 (EXC. 35U21)
			35L65	4200 (EXC. 35U21)
6293299	FG	350 CU. IN. 4 BBL.	12H	4200 (EXC. 35U21)
			35L74	32, 36 & 4800 (EXC. U21)
		400 CU. IN. 4 BBL.	12H	4400 (EXC. 35K66/U21)
			35L77	32, 36 & 4800 EXC. 3635 (EXC. 35K66/U21)
400 CU. IN. 2 BBL.	35L78	4800 (EXC. 35K66/U21)		
	35L65	4800 (EXC. 35U21)		
6295975	KR	350 CU. IN.	12H	5400 EXC. 35L74
6295875	KM	455 CU. IN.	12H	5400 WITH 35L74 & 56 THRU 8600 (EXC. 35K66)
6297005	FN	400 CU. IN. (EXC. 2 BBL.) & 455 CU. IN.	35K66	ALL EXC. 3635 & 5400
6293300	FS	350 & 400 CU. IN.	35U21	ALL "A" CARS (EXC. 35K66)

⚠ MUST BE FULLY DRIVEN, SEATED, AND NOT STRIPPED
 ⚠ 96 - 144 LB. IN.

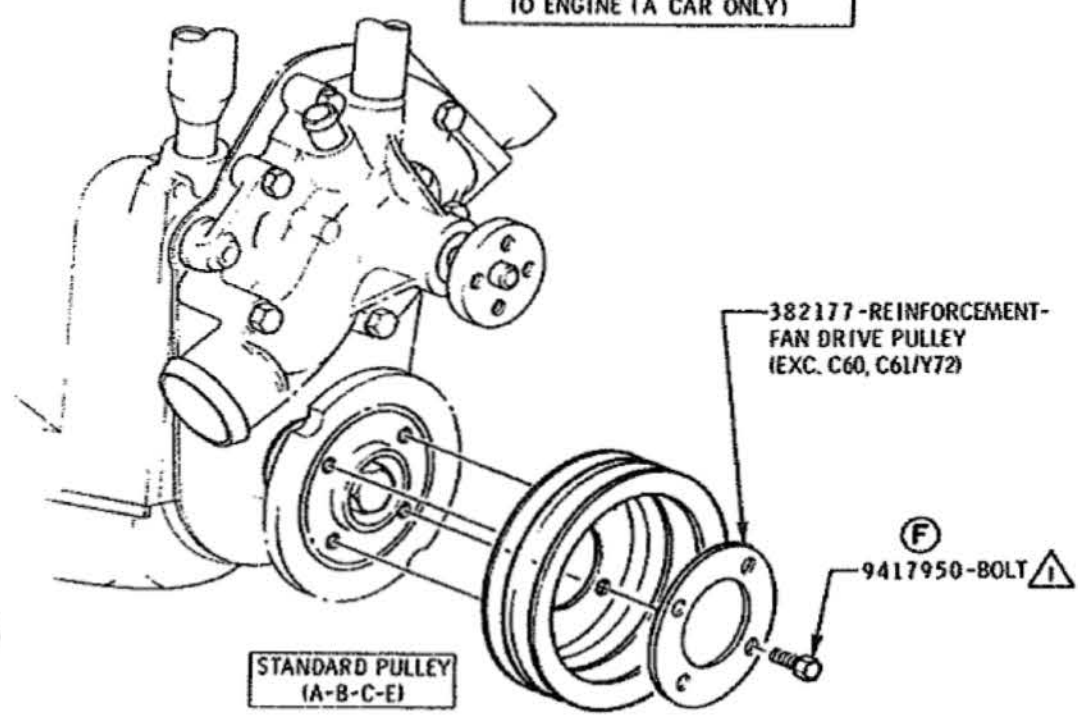
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
11-15-67	K	CHART REVISED			8-9-67	E	NOTE REVISED			APRIL 21, 1967					1968					STARTER CABLE & ENGINE HARNESS TO ENGINE	1968	6-1	127	
10-19-67	J	CHART REVISED			8-9-67	D	CODES ADDED																	
10-19-67	H2	PART NO. REV			8-9-67	C	USAGE REVISED & CHART ADDED																	
8-24-67	G	VIEW A ADDED			7-14-67	B	BOARD REVISED																	
8-21-67	F	SOLENOID WIRE ADDED			6-7-67	A	NOTE REVISED																	
																					12A-12N-35U21	A-B-C	398162-3	



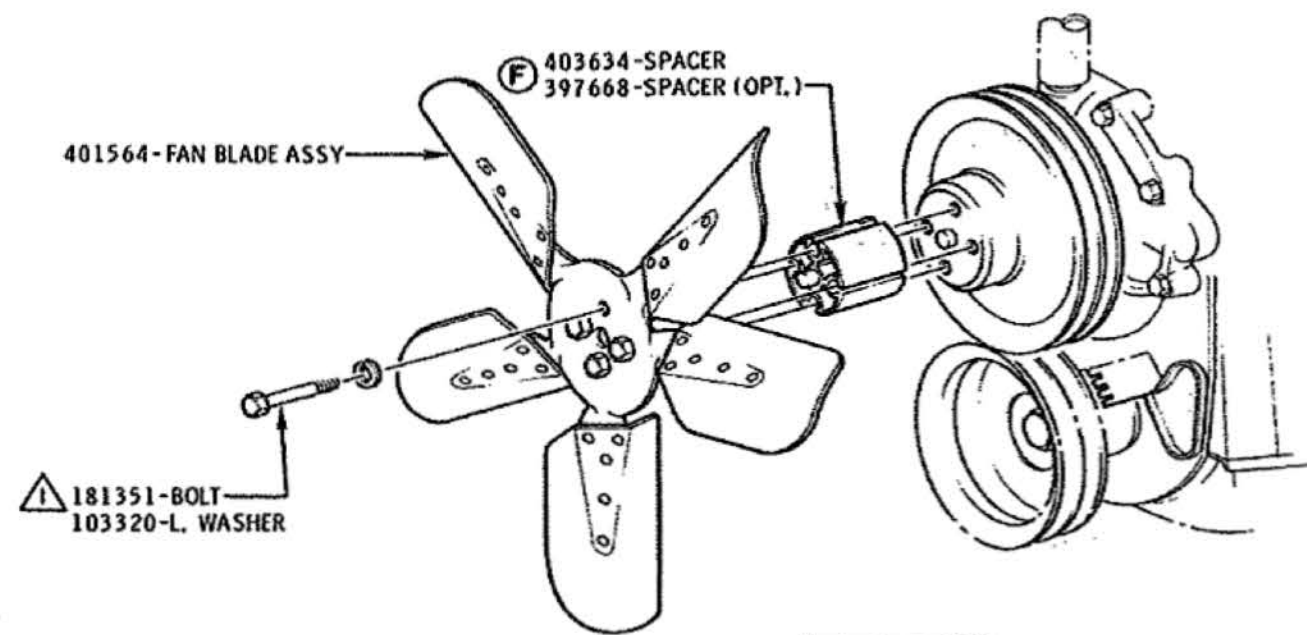
E
INSTALLATION OF
RALLY PACK OIL PRESSURE GAGE
TO ENGINE (A CAR ONLY)



STANDARD FAN
(A-B-C)



STANDARD PULLEY
(A-B-C-E)

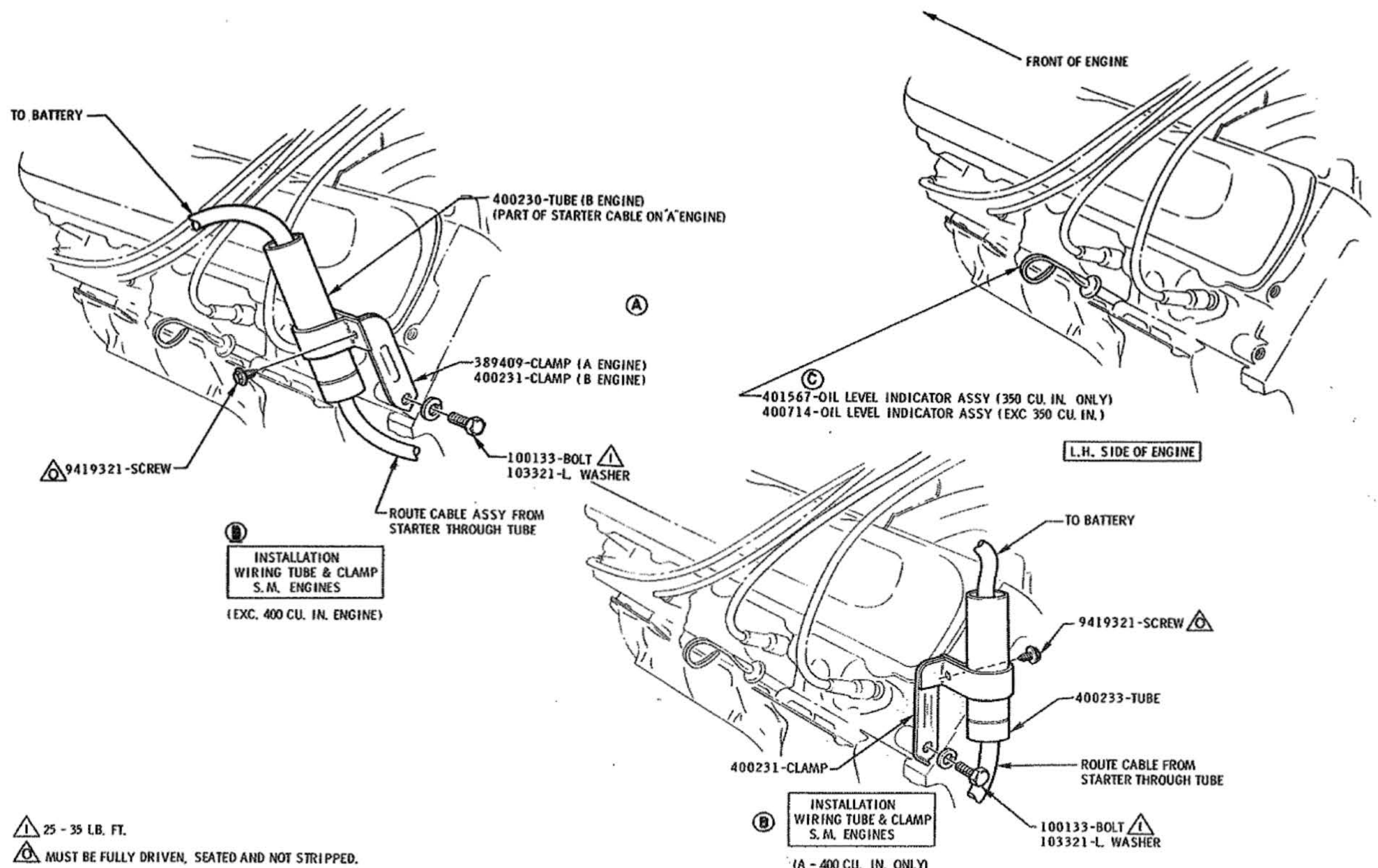


STANDARD FAN
(E)

FOR PULLEYS & BELTS
SEE CHART IN FRONT
OF SECTION 6-1

I 15 - 20 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-21-67	E	VIEW ADDED									PULLEY, STANDARD FANS & 35U21 OIL GAGE				
					6-27-67	D	TORQUE ADDED									DATE NOVEMBER 11, 1966	1968		6-1	130
					6-27-67	G ₂	PART NUMBERS REVISED									DR. BY CURT MAY				
					4-26-67	B	35C 40 CANCELLED									CHECKED BY Barnhart				
					4-26-67	A	REINF. ADDED									APPR. [Signature]				
					4-24-68	F ₂	PART NO'S REVISED										6K1			
																		ABCE	398162-3-4	

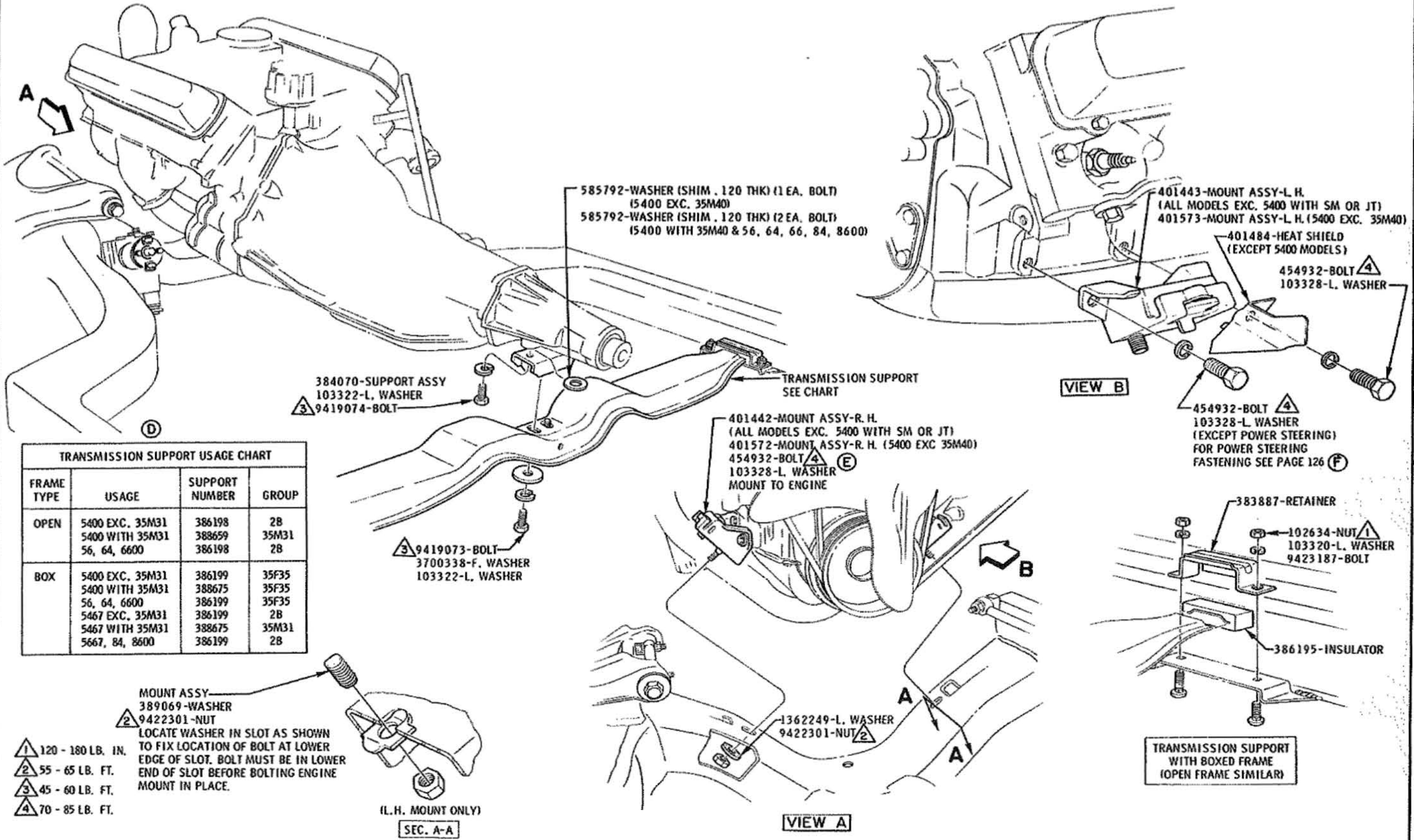


INSTALLATION WIRING TUBE & CLAMP S.M. ENGINES (EXC. 400 CU. IN. ENGINE)

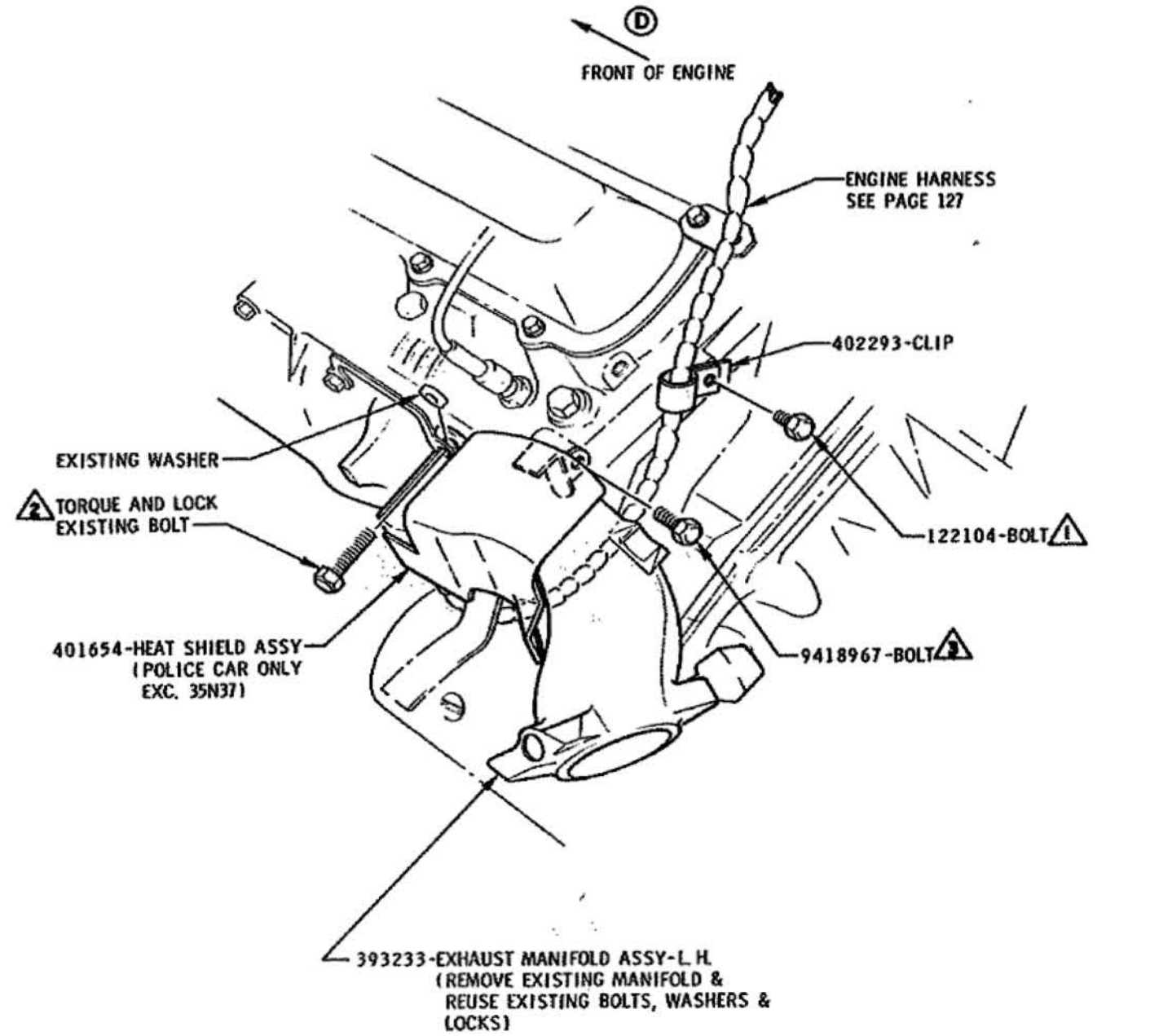
INSTALLATION WIRING TUBE & CLAMP S.M. ENGINES (A - 400 CU. IN. ONLY)

- 25 - 35 LB. FT.
- MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																OIL LEVEL INDICATOR & S.M. STARTER CABLE TUBES	1968		6-1	132
					7-13-67	C	PART NO. ADDED									DATE JANUARY 31, 1967				
					7-13-67	B	VIEWS ADDED									DR. BY CURT MAY				
					4-13-67	A	PART NO'S REV.									CHECKED JMBarnhart				
																	REF. 664 35K30 35L65	SERIES	PART NO.	
																	35J52 35L77	ABCE	398162-3-4	

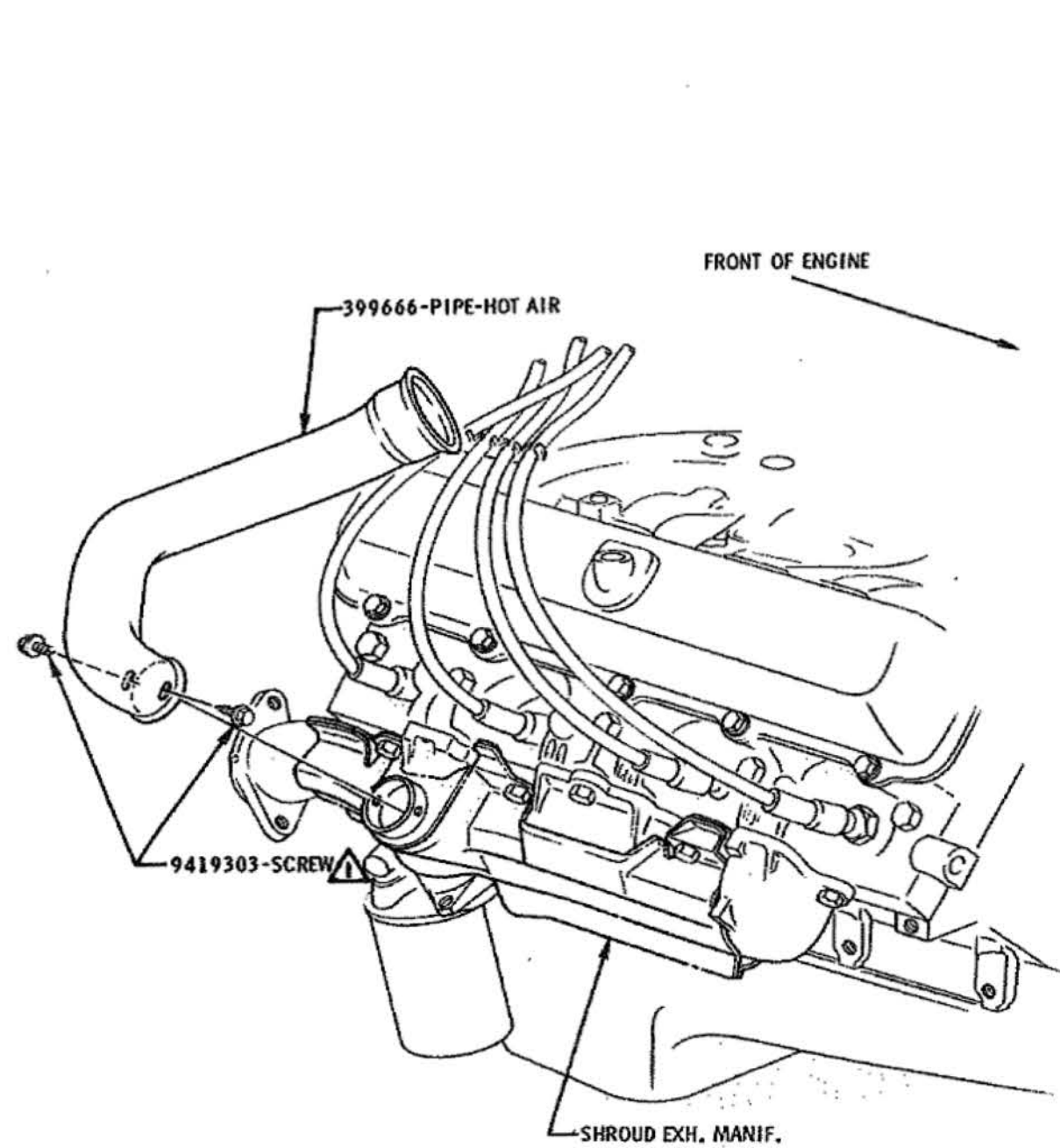


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					12-11-67	E	WAS NO. 1 TORQUE	CM													POWER PLANT TO FRAME	1968		6-1	140
					9-7-67	D	CHART REVISED	CM													DATE MARCH 7, 1967				
					7-21-67	C ₂	PART NOS REVISED	CM													DR. BY SCOTT Mc DONALD	REF. 28 6Q 35F35	SERIES B-C	PART NO. 398163	
					7-21-67	B	401484-SHIELD ADDED	ER													CHECKED BY S. W. HART	35M32 35M40			
					12-27-67	F	NOTE REVISED	CM													120-180 WAS 140-180 LB. IN.				

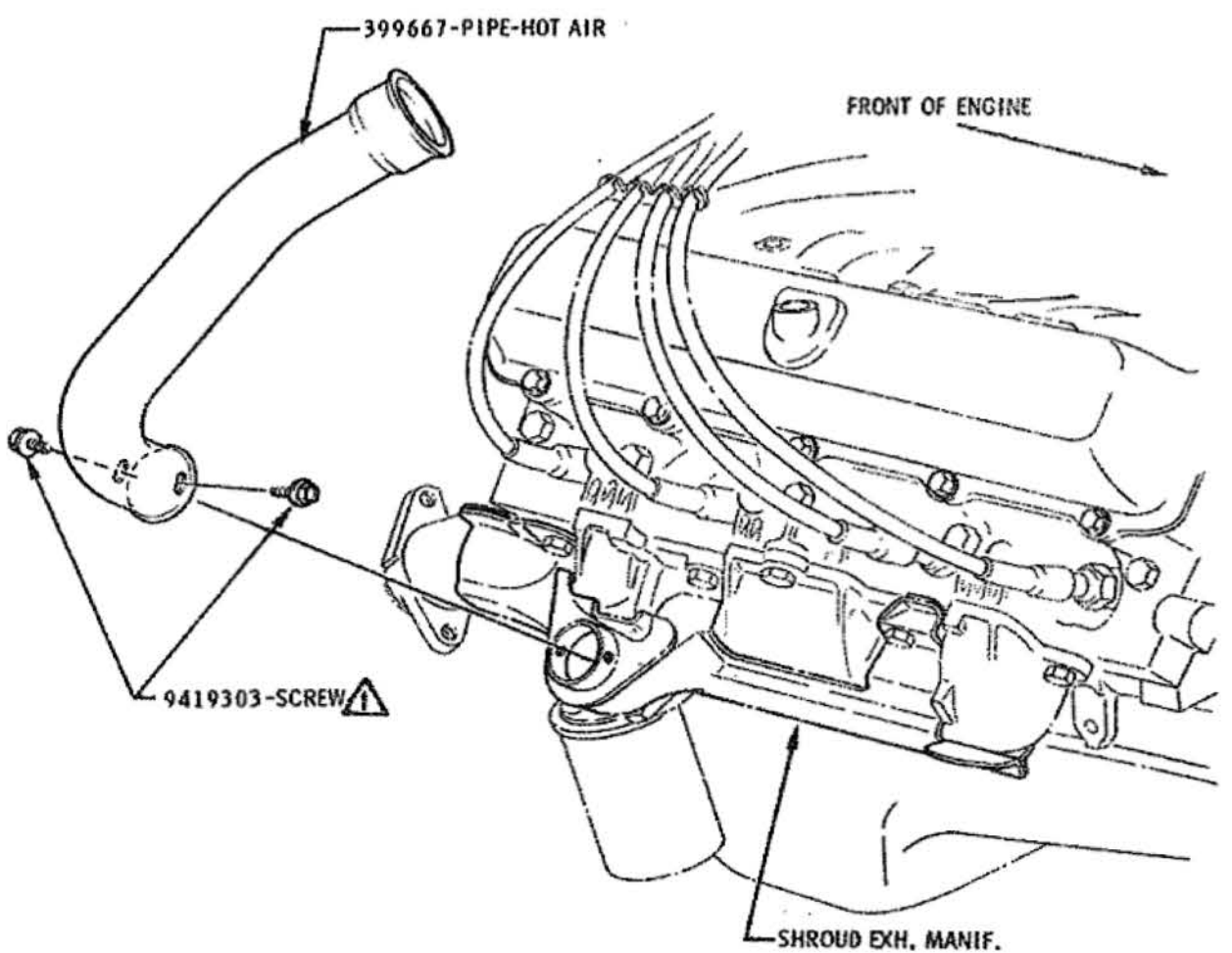


- ① 15 - 25 LB. FT.
- ② 20 - 25 LB. FT.
- ③ 25 - 35 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					1-23-68	E	TORQUES REVISED	ER	MS							L.H. DUAL EXHAUST MANIFOLD & STEERING COUPLING HEAT SHIELD				
					12-7-67	D	ARROW ADDED	BR	MS							DATE JULY 20, 1967				
					10-20-67	C ₂	PARTS ADDED	CM	MS							DR. BY CUET MAY	1968		6-1	141
					9-10-67	B	PART NO. ADDED	CM	MS							CHECKED MFBarnhart				
					7-31-67	A	WAS 398996 SHIELD	CM	MS							APPR. [Signature]	REF. 35N10	SERIES B-C	PART NO. 398163	



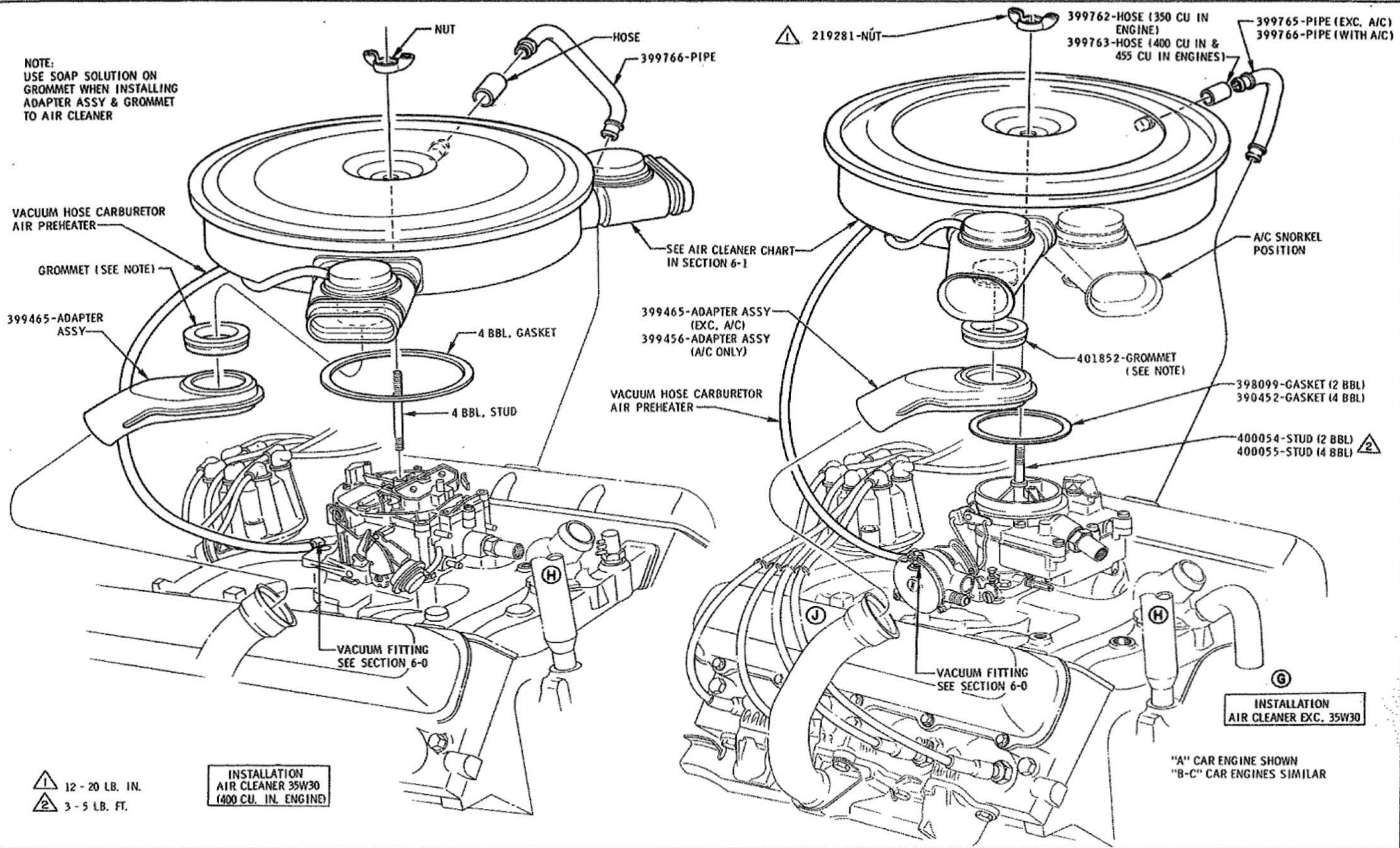
INSTALLATION HOT AIR PIPE 5400 ONLY



INSTALLATION HOT AIR PIPE EXC. 5400

Ⓢ ⓐ 25 - 30 LB. IN.

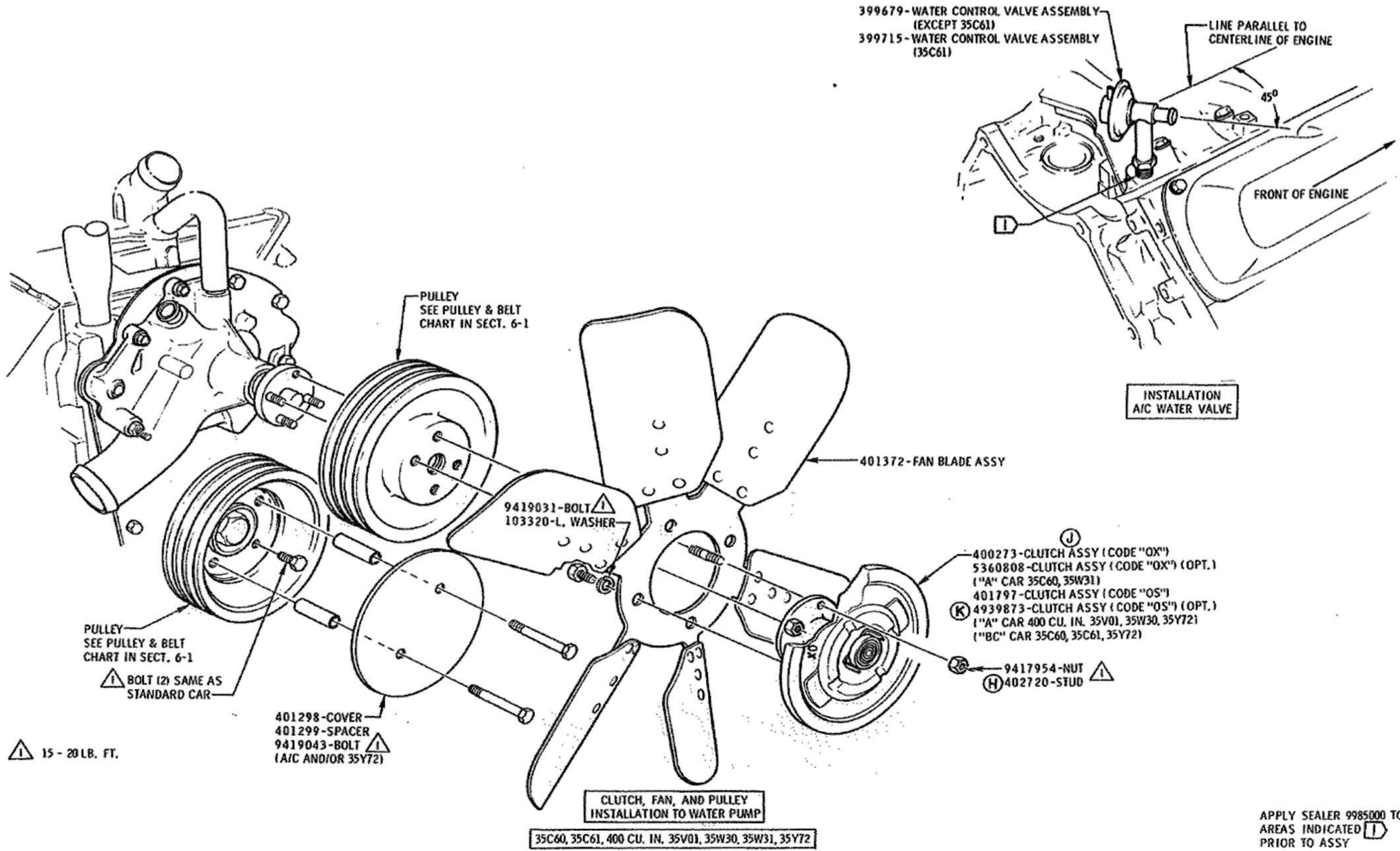
DATE	SYM	REVISION	DR.	CHK.	DATE	SYM	REVISION	DR.	CHK.	DATE	SYM	REVISION	DR.	CHK.	DATE	SYM	REVISION	TITLE
										4-6-68	D	TORQUE REVISED						CARBURETOR AIR PRE-HEATER
										11-14-67	C	TORQUE SPEC. ADDED						DATE JANUARY 30, 1967
										9-11-67	B	BACKGROUND REVISED						FIRST USED 1968
										7-19-67	A	WAS 9419663-SCREW						OLDSMOBILE PRODUCT INFORMATION MANUAL
																		MANUAL SECTION 6-1
																		PAGE 142
																		SERIES R-C
																		PART NO. 398163



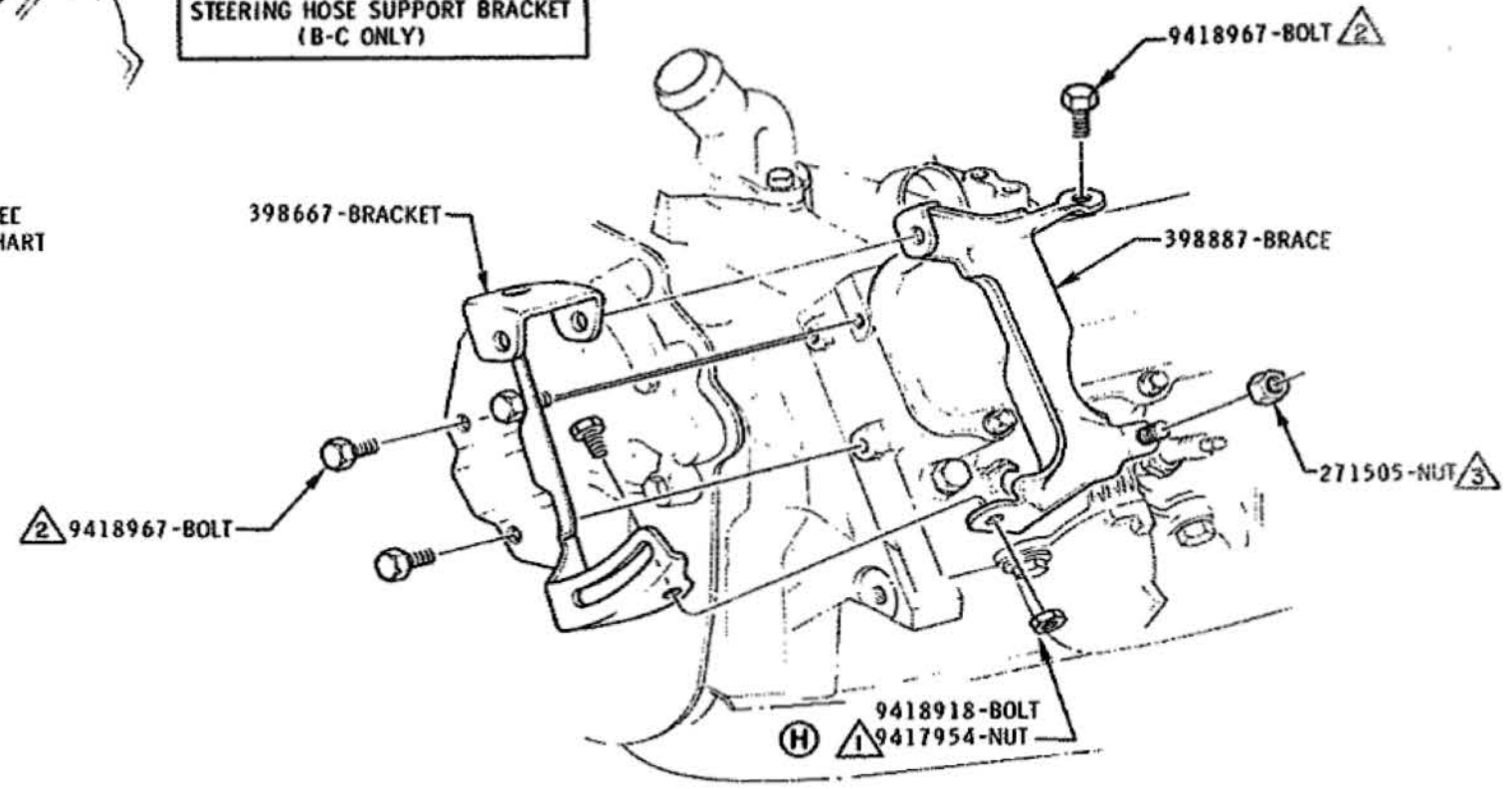
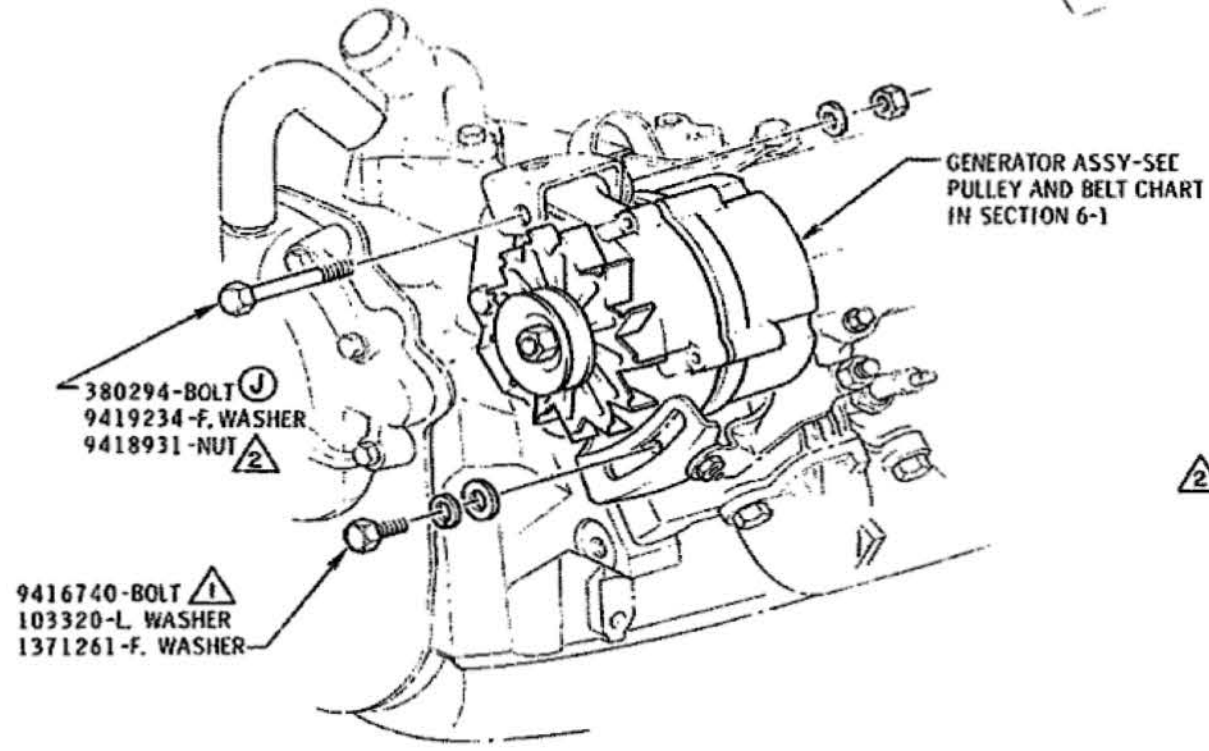
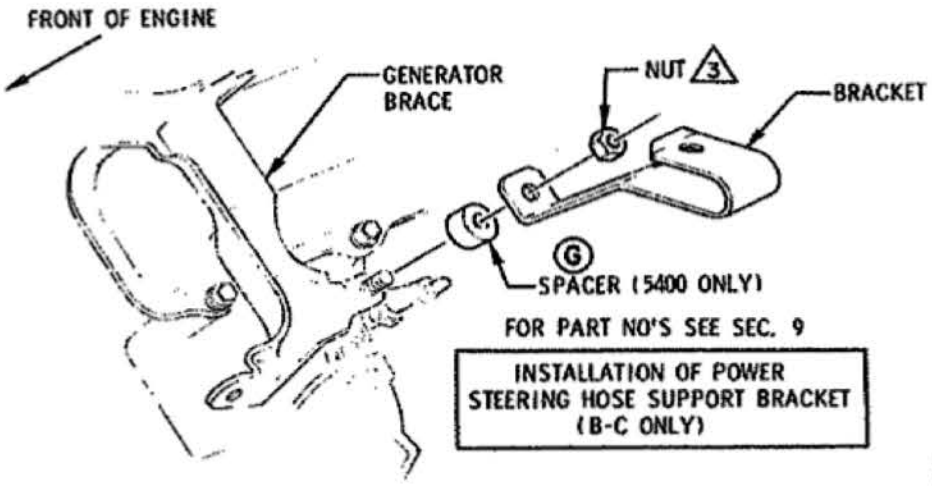
1 12 - 20 LB. IN.
2 3 - 5 LB. FT.

INSTALLATION AIR CLEANER 35W30 (400 CU. IN. ENGINE)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-31-67	E	NOTE ADDED	OMM								AIR CLEANER, ADAPTERS & GROMMET				
		1-8-68	J		7-6-67	D	WAS 3918699 - NUT	OMM								DATE FEBRUARY 27, 1967	1968		6-1	150
		11-16-67	H2		4-12-67	C6	VACUUM HOSE ADDED	OMM								DR. BY CUET MAY				
		9-11-67	G		3-29-67	B	PART NOS ADDED	OMM								CHECKED MPP				
		8-23-67	F		3-29-67	A	VIEW ADDED	OMM								APPR. [Signature]				
																REF. 6M1, 6M3				
																SERIES A-B-C				
																PART NO. 398162-3				



DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	SERIES	PART NO.	
				4-24-68	K	PART NO. ADDED	OMP	8-24-67	E	PART NO'S REV	OMP						AIR CONDITIONING & HEAVY DUTY FAN, PULLEY, CLUTCH & WATER VALVE	1968		6-1	210	AB-C	398162-3	
				1-25-68	J	NOTE REVISED	R	7-19-67	D	REVISED & REDRAWN	OMP						DATE FEBRUARY 20, 1967							
				12-12-67	H	WAS 5360808-STUD	OMP	5-10-67	C	NOTE REVISED	OMP						DR. BY CURT MAY							
				12-12-67	G	PART NO. REMOVED	OMP	5-10-67	B	35Y72 INFO ADDED	OMP						CHECKED BY Barnhart							
				10-3-67	F	NOTE ADDED	OMP	4-14-67	A	WAS STUD & NUT	OMP						APPR. [Signature]	REF. 35C61 35Y72						



INSTALLATION OF GENERATOR TO SUPPORTING BRACKETS

INSTALLATION OF GENERATOR BRACKET AND BRACE

- 1 20 - 25 LB. FT.
- 2 25 - 35 LB. FT.
- 3 40 - 50 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					10-10-67	E	BRACKET REMOVED									AIR CONDITIONING GENERATOR MOUNTING					
					12-14-67	J	WAS 391306-BOLT	OMM		6-12-67	D	TORQUE ADDED				DATE NOVEMBER 17, 1968	1968		6-1	212	
					11-14-67	H	WAS 9417950-BOLT	OMM		6-12-67	C	NOTE ADDED				DR. BY CURT MAY					
					10-19-67	G	WAS 2 SPACERS	OMM		4-21-67	B	BRACKET ADDED				CHECKED BY [Signature]					
					10-10-67	F	VIEW ADDED	OMM		4-21-67	A	FASTENING REVISED				APPR. [Signature]					
																REF. 35C60 (6Y1) 35C6i (6Y1)	SERIES ABCE	398162-3-4			

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

3. GENERAL, INC. 4875

PART NO.	IDENTIFICATION	SERIES	RELEASE GROUP	SPEEDOMETER DRIVE GEAR	LOCATION OF IDENTIFICATION
3919349 3919355 9793425 9793426	QP RJ DB DA	MANUAL 3 SPEED. 31, 3500 32, 36, 42, 4800 4400 AND 32, 36, 4200 (HEAVY DUTY) 54, 56, 64, 6600	7 7 7, M14 7	8 TOOTH 8 TOOTH 8 TOOTH	1" HIGH LETTERS ON R.H. SIDE OF CASE ↓ 2" HIGH LETTERS ON R.H. SIDE OF EXTENSION
3915079 3915085	HP HF	MANUAL 4 SPEED 32, 36, 42, 44, 4800 (WIDE RATIO) 32, 36, 42, 4400 (CLOSE RATIO)	M20 M21	8 TOOTH (30 PITCH) 8 TOOTH (30 PITCH)	1" HIGH LETTERS ON R.H. SIDE OF CASE ↓
1383319 1383963 1383964	LC MM MT	JETAWAY 31, 3500 32, 36, 4200 5400	M31 M31 M31	17 TOOTH 17 TOOTH NONE	1" HIGH LETTERS ON R.H. SIDE OF CONVERTOR HOUSING ↓
8626065 8625885 8625875 8626275 8625375 8625475 8626075 8626075 8626075 8626085 (M) 8626134 8625865 8625485	OF OC OB OL OJ OM OG OG OH OW OA OP	TURBO - HYDRAMATIC 5400 56, 64, 6600 - L74 84, 8600, 9860 AND 56, 64, 6600 & L74 56, 6400 & L76 94, 9600 - W34 94, 9600 & W34 32, 36, 4200 & L77 (N) 4400 - L65 OR W30 (P) 4400 L65 4400 & W30 4800 - L77, L78 4800 & L77, L78	M40 M40 7, M40 M41 7 W34 M40 M40 M40 M40 M40 M40 M40	NONE NONE NONE NONE 14 TOOTH 14 TOOTH 18 TOOTH 18 TOOTH 18 TOOTH 18 TOOTH 18 TOOTH 18 TOOTH	2" HIGH LETTERS ON R.H. SIDE OF CONVERTOR HOUSING ↓ 1" HIGH LETTERS ON L.H. SIDE OF CONVERTOR HOUSING ↓ 2" HIGH LETTERS ON R.H. SIDE OF CONVERTOR HOUSING

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
10/16/67	P	W30 REMOVED	KL	JT	7-31-67	K	WAS 12 TOOTH	KL	JT	7-31-67	J	L65 REMOVED	KL	JT	7-31-67	J	L65 REMOVED	KL	JT	7-31-67	J	L65 REMOVED	1968	7	100
10/16/67	N	W30 ADDED	KL	JT	7-17-67	H	WAS GROUP 7B3	KL	JT	7-17-67	G	WAS GROUP 7B1	KL	JT	7-17-67	G	WAS GROUP 7B1	KL	JT	7-17-67	G	WAS GROUP 7B1			
9/29/67	M	8626134 ADDED	KL	JT	7-17-67	G	WAS GROUP 7B1	KL	JT	7-17-67	G	WAS GROUP 7B1	KL	JT	7-17-67	G	WAS GROUP 7B1	KL	JT	7-17-67	G	WAS GROUP 7B1			
9/29/67	L	9860 SERIES ADDED	KL	JT	7-17-67	F	WAS 9781076	KL	JT	7-17-67	F	WAS 9781076	KL	JT	7-17-67	F	WAS 9781076	KL	JT	7-17-67	F	WAS 9781076			

CHART - TRANSMISSION USAGE

DATE MARCH 10, 1967

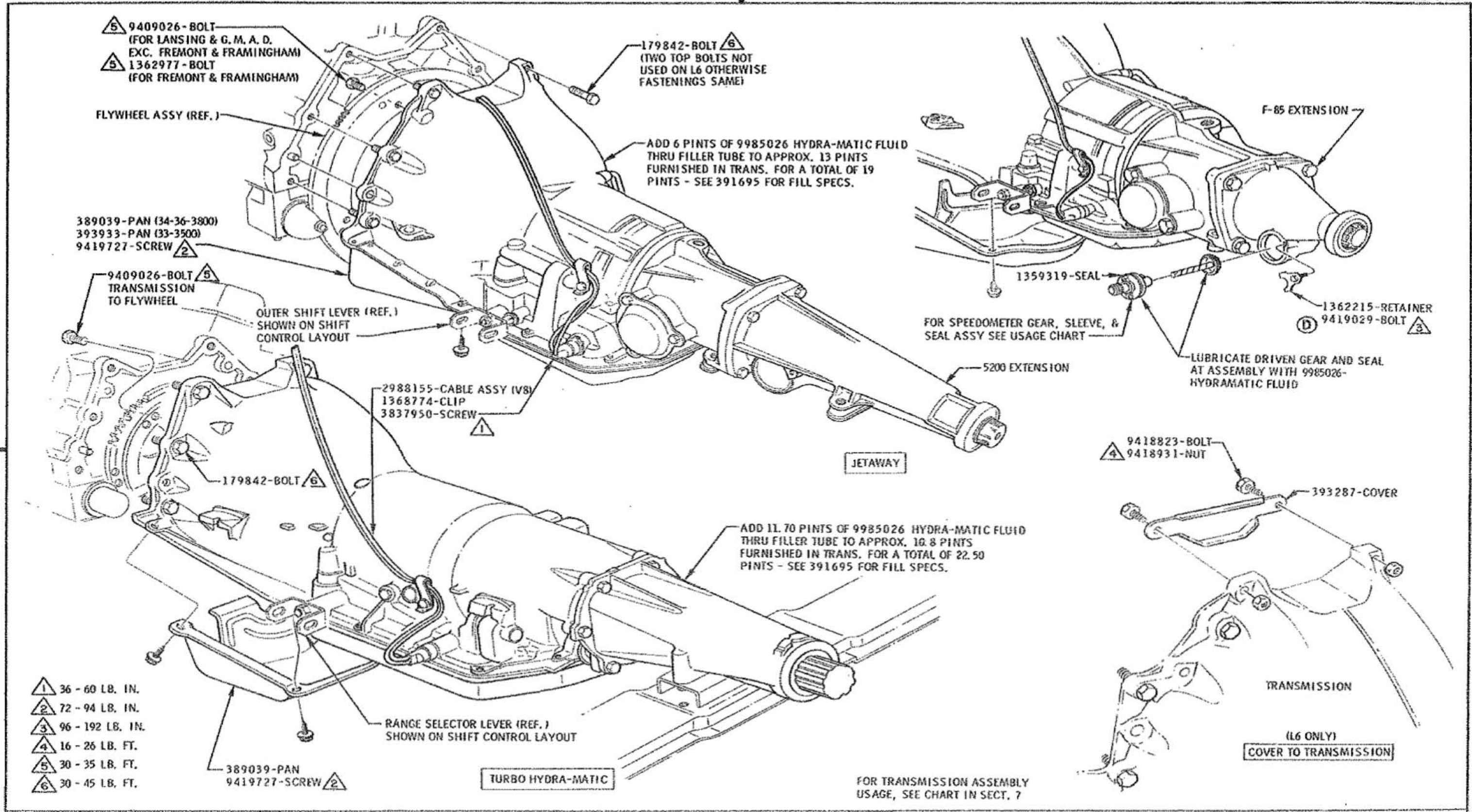
DR BY R. R. STANLAKE

CHECKED H. T. B. PAGE

APPR.

SERIES **A B C E**

PART NO. **400752**



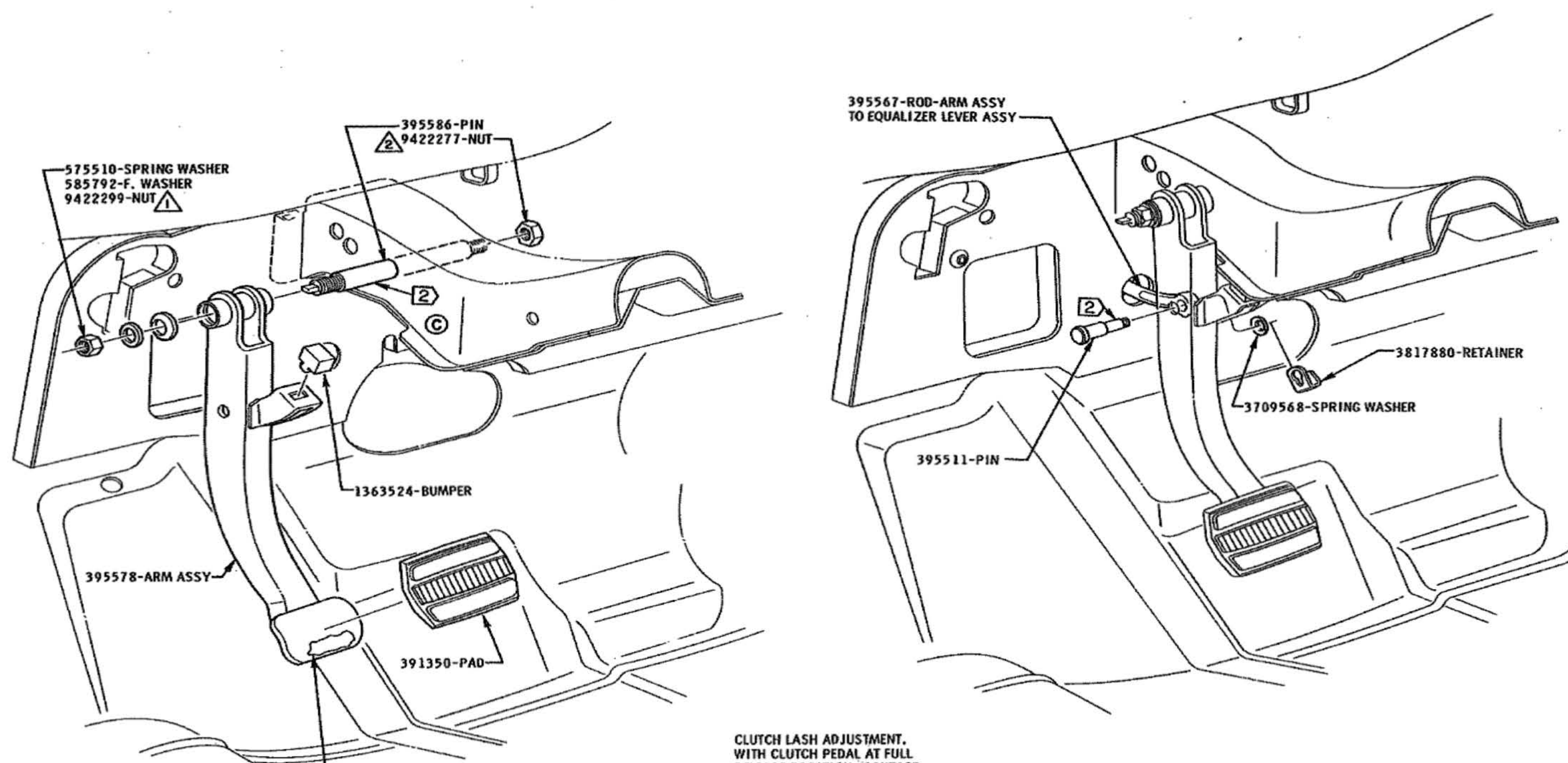
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					3-20-67	D	WAS 11565B									AUTOMATIC TRANSMISSION	1967		7	1.50
					6-13-66	C	REVISED & RETURNED									DATE FEBRUARY 28, 1966				
					4-14-66	B	TORQUES ADDED									DR. BY ED J. ROE				
					3-18-66	A	WIRING CLIP REVERSED									CHECKED BY Barnhart				
																APPR. H. J. B. PAGE				
																REF.	SERIES	PART NO.		
																	A-B-C	394435-6		

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING -- MICHIGAN

PART NO.	MODEL	EFFECTIVE PLATE PRESSURE (LBS.) AT 2800 RPM	FRICTION LAG	SAC'ING	BOLT CIRCLE	COLOR CODE	P/L GROUP
3886126 PLATE ASSEMBLY	3100 - 3500 L6 SM		.045-.080 (.065 - .080 PREFERRED)			OLIVE DRAB ON HUB	7B1B
3886134 COVER ASSEMBLY	3100 - 3500 L6 SM	(1) BELLEVILLE SPRING 1650-1850 LBS. TOTAL			10.96 DIA.	BLUE ON SPRING	7B1B
391254 PLATE ASSEMBLY	3200 - 3600 - 4200 V8 - SM & FS 5400 SM					WHITE ON HUB	7B1B
3799139 COVER ASSEMBLY	3200 - 3600 - 4200 V8 - SM & FS 5400 SM	(1) BELLE 190"				SPRING	7B1B
9774163 (OPT) COVER ASSEMBLY	3200 - 3600 - 4200 V8 - SM & FS 5400 SM						7B1B
9779392- PLATE ASSEMBLY	V.					RETAINER	7B1B
3893236 COVER ASSEMBLY	4400 - 4800 V8 - SM & F.					WHITE ON SPRING	7B1B
9779392- PLATE ASSEMBLY	3200 - 3600 - 4200 V8 - SM & FS HEAVY DUTY					YELLOW ON RETAINER PLATE	35M01
3893236 COVER ASSEMBLY	3200 - 3600 - 4200 V8 - SM & FS HEAVY DUTY	(1) BELLE 2450 - 2750 L BENT FINGER			12.625 DIA.	WHITE ON SPRING	35M01
9779392 PLATE ASSEMBLY	5600 - 6400 - 6600 SM			(7-80) WOVEN		YELLOW ON RETAINER PLATE	7B1B
3893236 COVER ASSEMBLY	5600 - 6400 - 6600 SM	(1) BELLEVILLE SPRING 2450 - 2750 LBS. TOTAL BENT FINGER			12.625 DIA.	WHITE ON SPRING	7B1B

REMOVE THIS PAGE FROM YOUR
MANUAL. INFORMATION REMOVED
FROM MANUAL.

TITLE										CHART - CLUTCH USAGE							
DATE JAN. 17, 1967										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
DR. BY DON MALKIN										1968		INFORMATION MANUAL		7		103	
CHECKED JAMES										REF.		SERIES		PART NO.		400048	
APPR. H. J. P. PAGE										AB							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.		



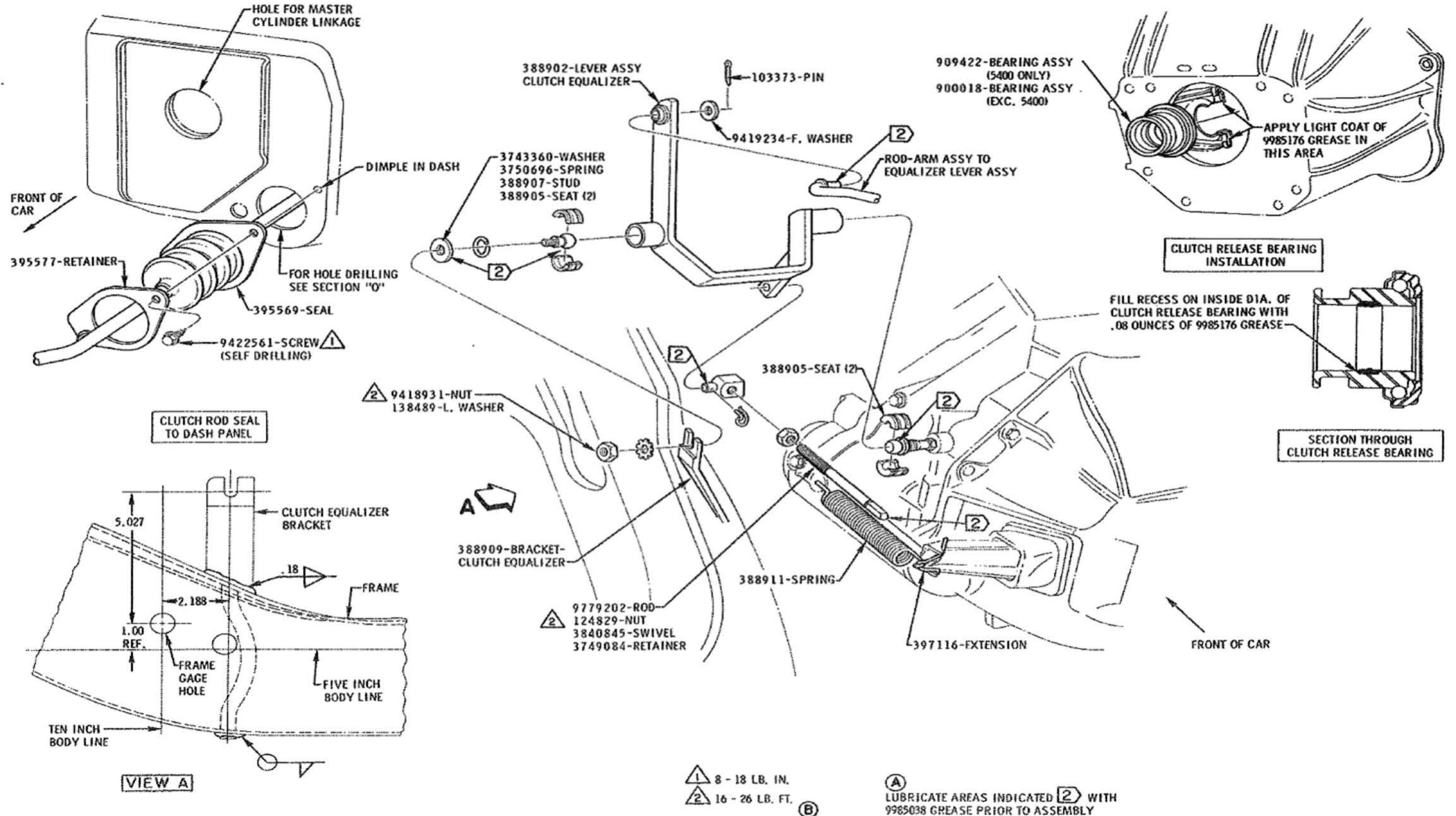
APPLY 9985027-SEALER TO PAD AND ARM ASSY PER PROCESS MATERIAL CHART

CLUTCH LASH ADJUSTMENT. WITH CLUTCH PEDAL AT FULL RELEASE POSITION, CONTACTING RUBBER BUMPER STOP, ADJUST CLUTCH RELEASE ROD TO GIVE .76 TO 1.00 LASH AT PEDAL PAD, TIGHTEN LOCK NUT ON CLUTCH RELEASE ROD.

1 35 - 45 LB. FT. (A)
2 16 - 26 LB. FT.

(B) LUBRICATE AREAS INDICATED (2) WITH 9985038 GREASE PRIOR TO ASSEMBLY

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																CLUTCH CONTROL	1968		7	110
					9-1-67	C	LUBE SYMBOL ADDED									DATE FEBRUARY 11, 1967				
					9-1-67	B	NOTE REVISED									DR. BY W. S. MASON				
					8-7-67	A	WAS 132-180 LB. IN.									CHECKED <i>MFB</i> <i>arnhart</i>	REF. 7B1B			
																APPR. F. ROZNOWSKI				
																		SERIES B	PART NO.	398163



TITLE										CLUTCH CONTROL										
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
1-17-68	B				9-1-67	A										CLUTCH CONTROL	1968		7	111
																NOTE REVISED	REF. 781B	SERIES	PART NO.	
																WAS 16-26 LB. IN.		B	398163	
																CHECKED <i>W. Bernhart</i>				
																APPR. <i>F. R. NOWSKI</i>				

SHIFT ROD ADJUSTMENT

WITH SHIFT ROD CLAMPS AND SCREWS LOOSE ASSEMBLED TO SHIFT RODS, SET TRANSMISSION SHIFT LEVERS IN RESPECTIVE NEUTRAL DETENTS, INSERT TOOL WITH 3/16" DIA. GAGE PIN IN STEERING COLUMN SHIFT LEVERS AND TIGHTEN SCREWS ON CLAMPS ON LOWER END OF SHIFT RODS.

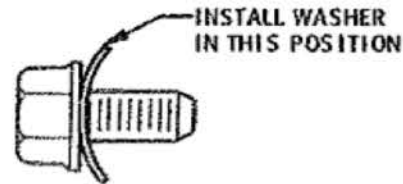
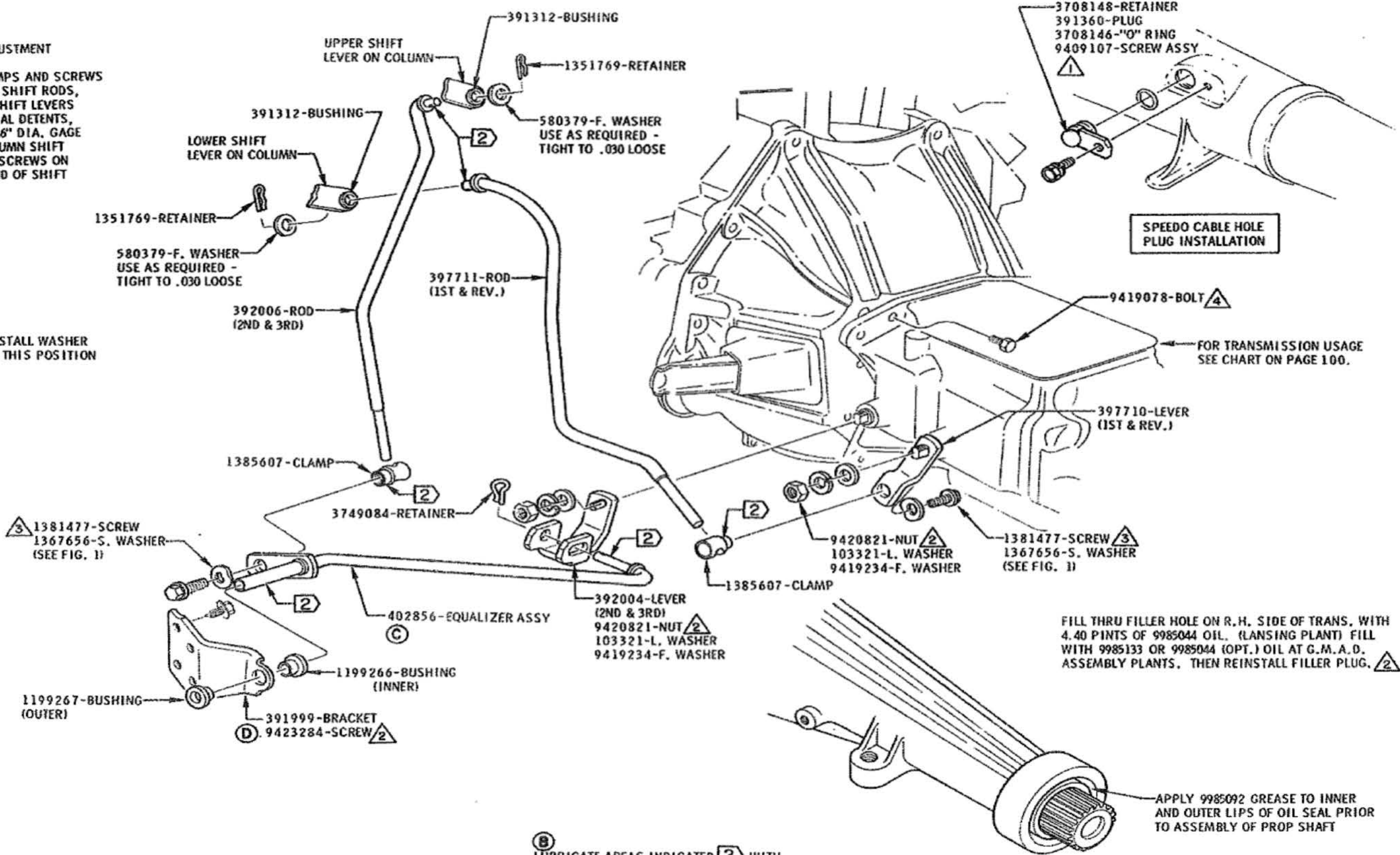


FIGURE 1



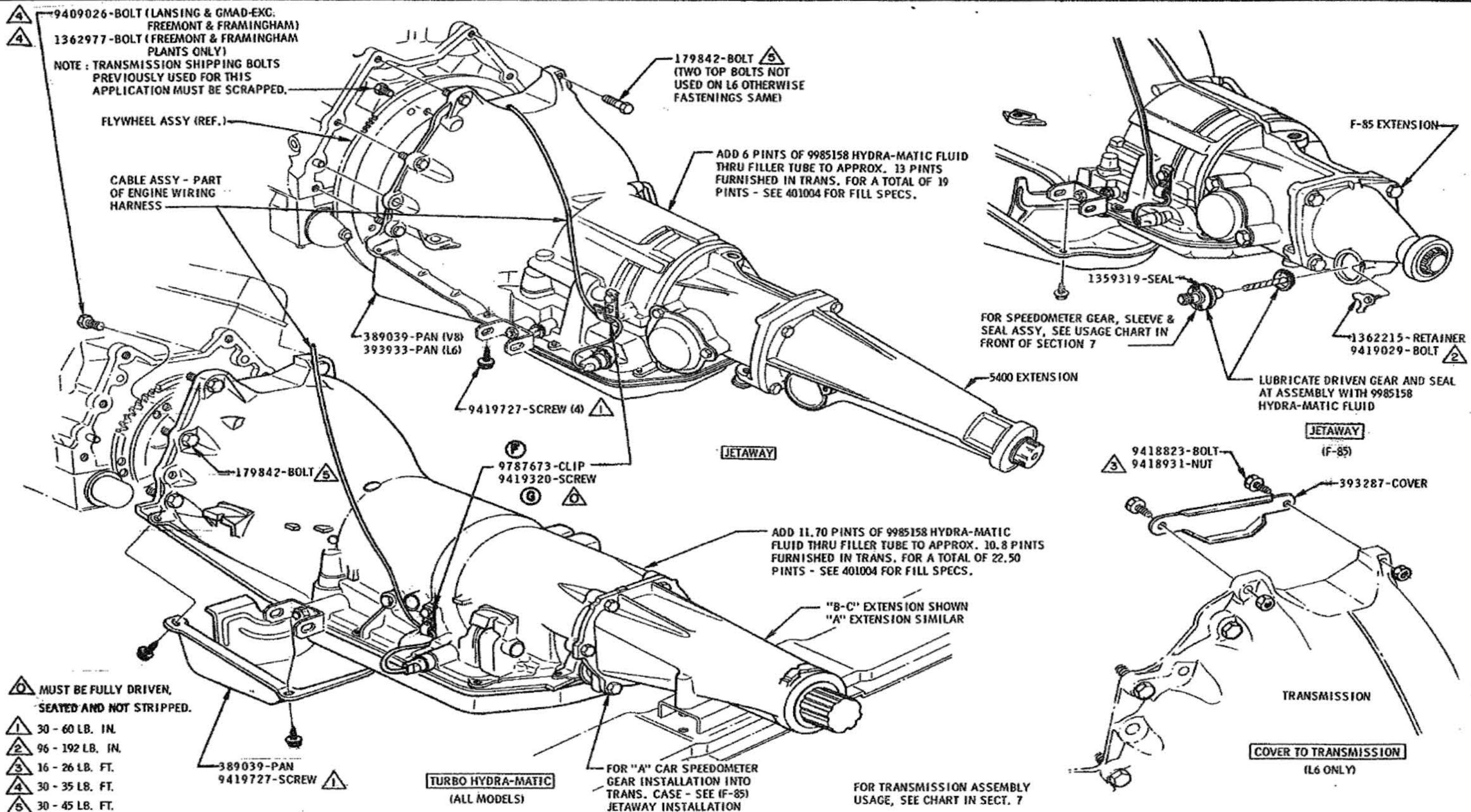
- ① 48 - 84 LB. IN.
- ② 120 - 180 LB. IN.
- ③ 17 - 23 LB. FT.
- ④ 50 - 65 LB. FT.

⑤ LUBRICATE AREAS INDICATED ② WITH 9985038 GREASE PRIOR TO ASSEMBLY

FILL THRU FILLER HOLE ON R.H. SIDE OF TRANS. WITH 4.40 PINTS OF 9985044 OIL. (LANSING PLANT) FILL WITH 9985133 OR 9985044 (OPT.) OIL AT G.M.A.D. ASSEMBLY PLANTS. THEN REINSTALL FILLER PLUG. ②

APPLY 9985092 GREASE TO INNER AND OUTER LIPS OF OIL SEAL PRIOR TO ASSEMBLY OF PROP SHAFT

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					4-1-68	D	WAS 9419402-SCREW									SYNCHROMESH COLUMN SHIFT CONTROL				
					12-7-67	C	WAS 392000									DATE FEBRUARY 11, 1967	1968		7	115
					9-1-67	B	NOTE REVISED									CHECKED/MPB				
					7-27-67	A ₂	WAS 1367697-CLAMP									APPR. F. ROZNOWSKI				
																REF. 7A 7B1A				
																		B		398163



- ⊙ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.
- ① 30 - 60 LB. IN.
- ② 96 - 192 LB. IN.
- ③ 16 - 26 LB. FT.
- ④ 30 - 35 LB. FT.
- ⑤ 30 - 45 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-14-67	E	REVISED TO DETAIL	EUR	MM							AUTOMATIC TRANSMISSION				
					8-28-67	D	TORQUE NOTES REVISED	EUR	DT							DATE FEBRUARY 10, 1967	1968		7	135
					8-7-67	C	NOTE REVISED	EUR	MM							DR. BY ED J. ROE				
					8-7-67	B	WAS 30-45 LB. FT.	EUR	MM							CHECKED J.P.S. BARKHART				
					5-18-67	A	REVISED	EUR	MM							APPR. F. ROZDOWSKI				
					4-16-68	G	WAS 3837950													
					12-13-67	F	WAS 1368774-CLIP													
																	REF. 35MB1			
																M40, M41 (753) (12J)	SERIES			
																		A-B-C	PART NO.	398162-3

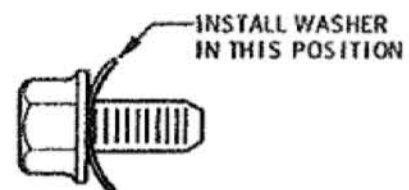
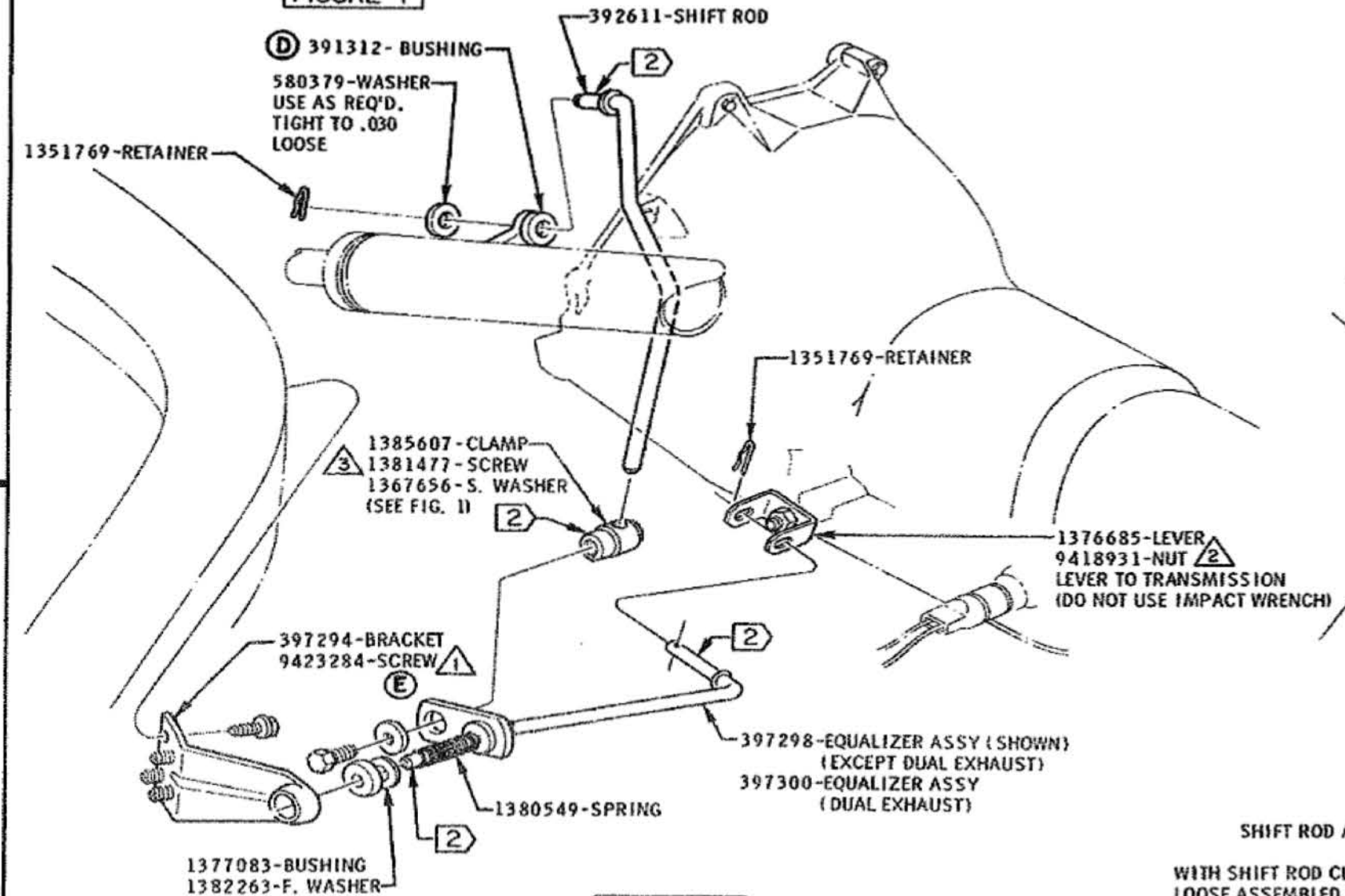
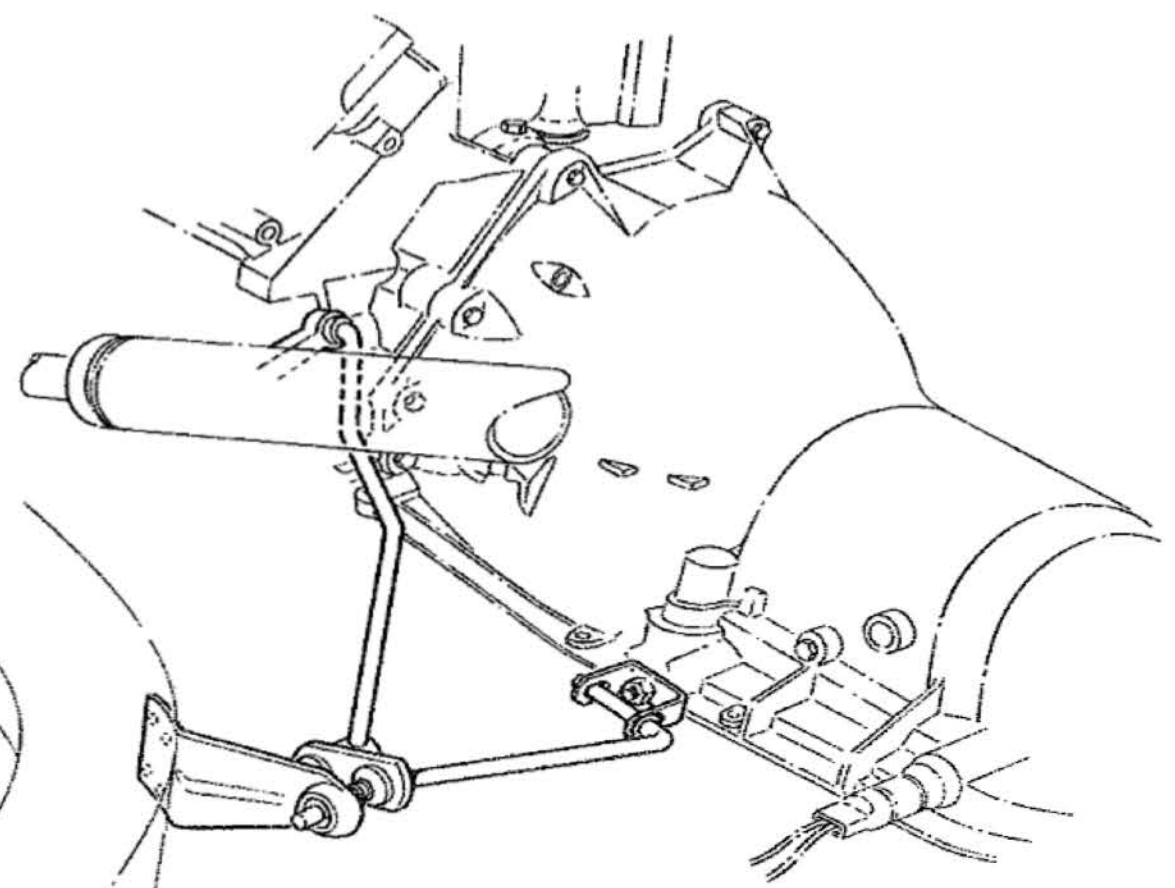


FIGURE 1



SHIFT CONTROL INSTALLATION



SHIFT CONTROL IN CAR POSITION

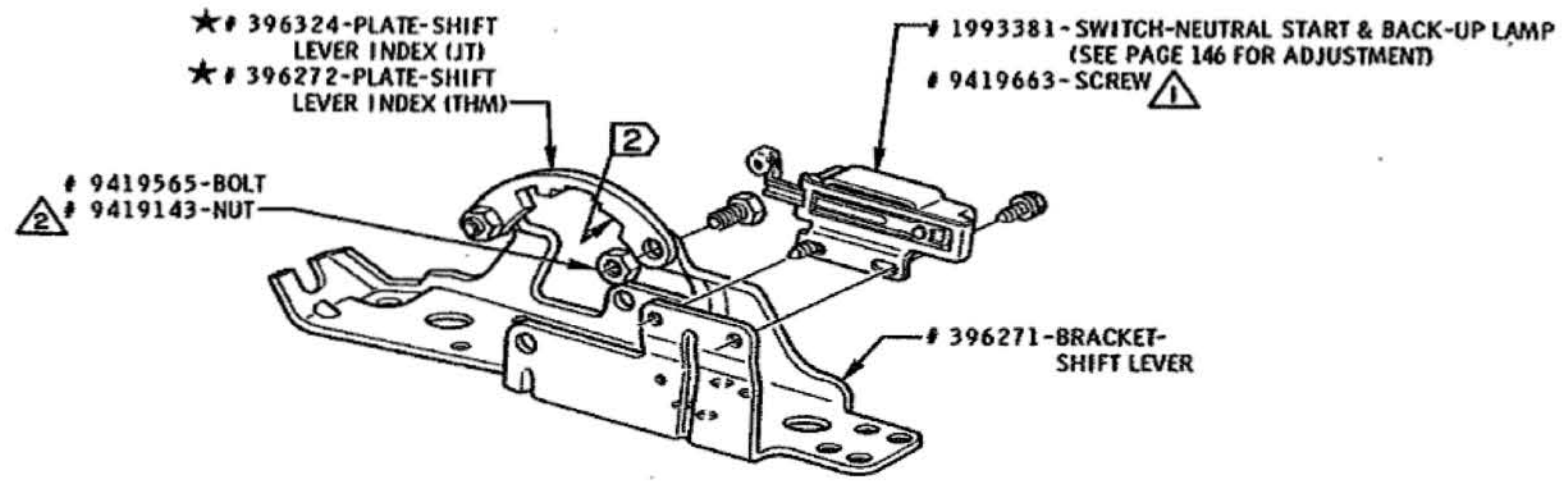
SHIFT ROD ADJUSTMENT

WITH SHIFT ROD CLAMP AND SCREW LOOSE ASSEMBLED TO SHIFT ROD, SET TRANSMISSION OUTER SHIFT LEVER IN DRIVE POSITION, HOLD UPPER SHIFT LEVER AGAINST DRIVE POSITION STOP IN UPPER STEERING COLUMN (DO NOT RAISE LEVER), TIGHTEN SCREW INTO CLAMP ON SHIFT ROD TO SPECIFIED TORQUE.

LUBRICATE AREAS INDICATED WITH 9985038 GREASE PRIOR TO ASSEMBLY

- 1 120 - 180 LB. IN.
- 2 16 - 26 LB. FT.
- 3 17 - 23 LB. FT.

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
4-1-68	E	WAS 9419902-SCREW	BP	11-10-67	D	BUSHING ADDED	PE	9-1-67	C	NOTE REVISED	EM	DATE FEBRUARY 2, 1967	1968	7	140		
8-7-67	B	TORQUES ADDED	EM	7-27-67	A	WAS 1367697-CLAMP	EM					CHECKED <i>MMB</i>	REF. 84-8600 (7A)	B-C	398163		
												APPR. <i>K. ROZNOWSKI</i>	351131 - MAO (1A)				



SWITCH & PLATE INSTALLATION

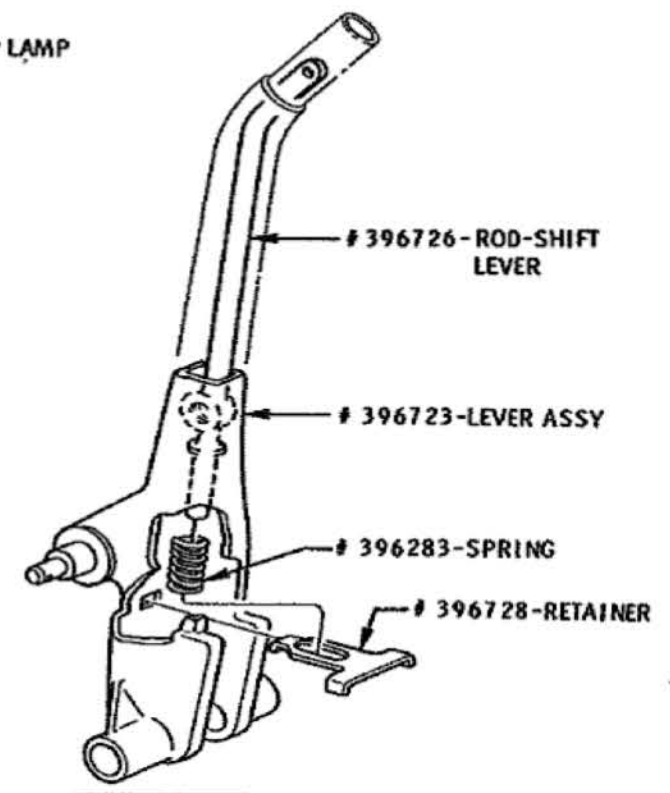
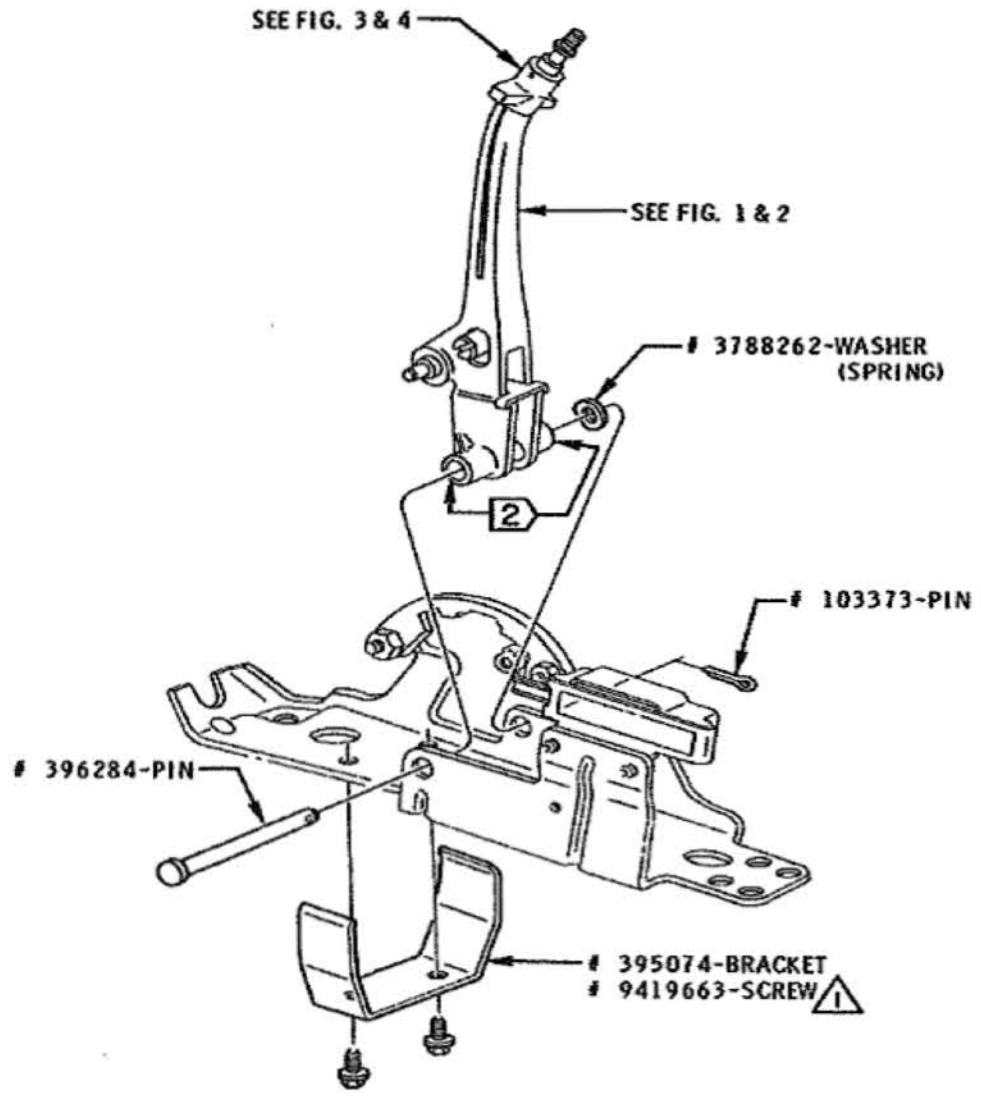


FIGURE 1



LEVER TO BRACKET INSTALLATION

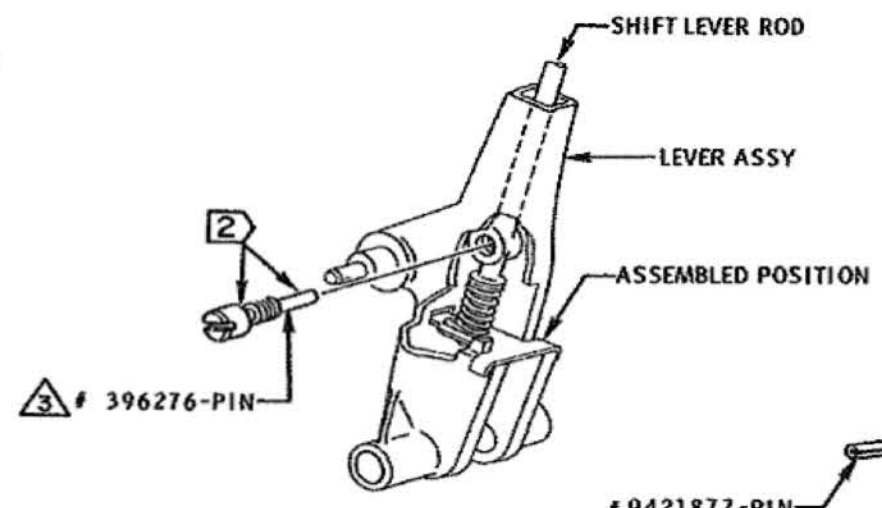


FIGURE 2

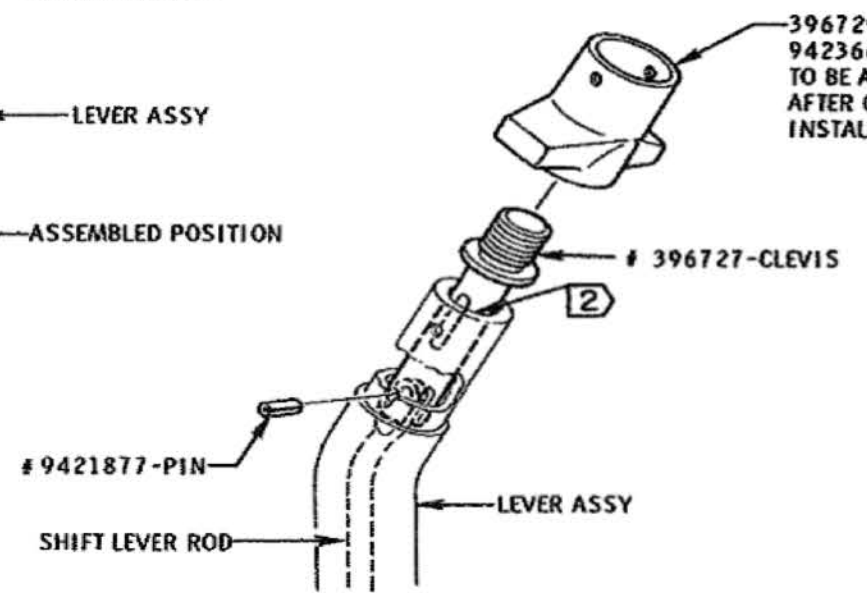


FIGURE 3

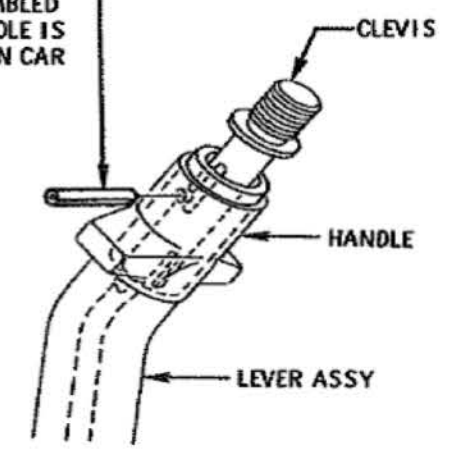


FIGURE 4

★ INSTALL THESE PARTS WITH IDENTIFICATION FACING OUTWARD TOWARD LEFT HAND SIDE OF CAR
PART OF BRACKET SHOP ASSY; SEE 397089 CHART

- ① 8 - 18 LB. IN.
- ② 48 - 84 LB. IN.
- ③ 30 - 50 LB. IN.

Ⓢ LUBRICATE AREAS INDICATED ② WITH 9985038 GREASE PRIOR TO ASSEMBLY

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					9-1-67	C	NOTE REVISED			12-16-66						AUTOMATIC TRANSMISSION FLOOR SHIFT CONTROL	1968		7	145	
					8-4-67	B	WAS 96-132 LB. IN.														
					6-7-67	A	RELEASED FOR "E" CAR														

SERIES **A-B-E** PART NO. **398162-3-4**

SHIFT CABLE ADJUSTMENT PROCEDURE

PUT SHIFT HANDLE IN PARK POSITION, TRANSMISSION MANUAL LEVER IN PARK POSITION AND MOVE 9779348-PIN TO JUST FIT INTO CABLE END. TIGHTEN 9418931-NUT.

MOVE SHIFT HANDLE INTO EACH GEAR POSITION AND SEE THAT TRANSMISSION MANUAL LEVER IS ALSO IN DETENT POSITION.

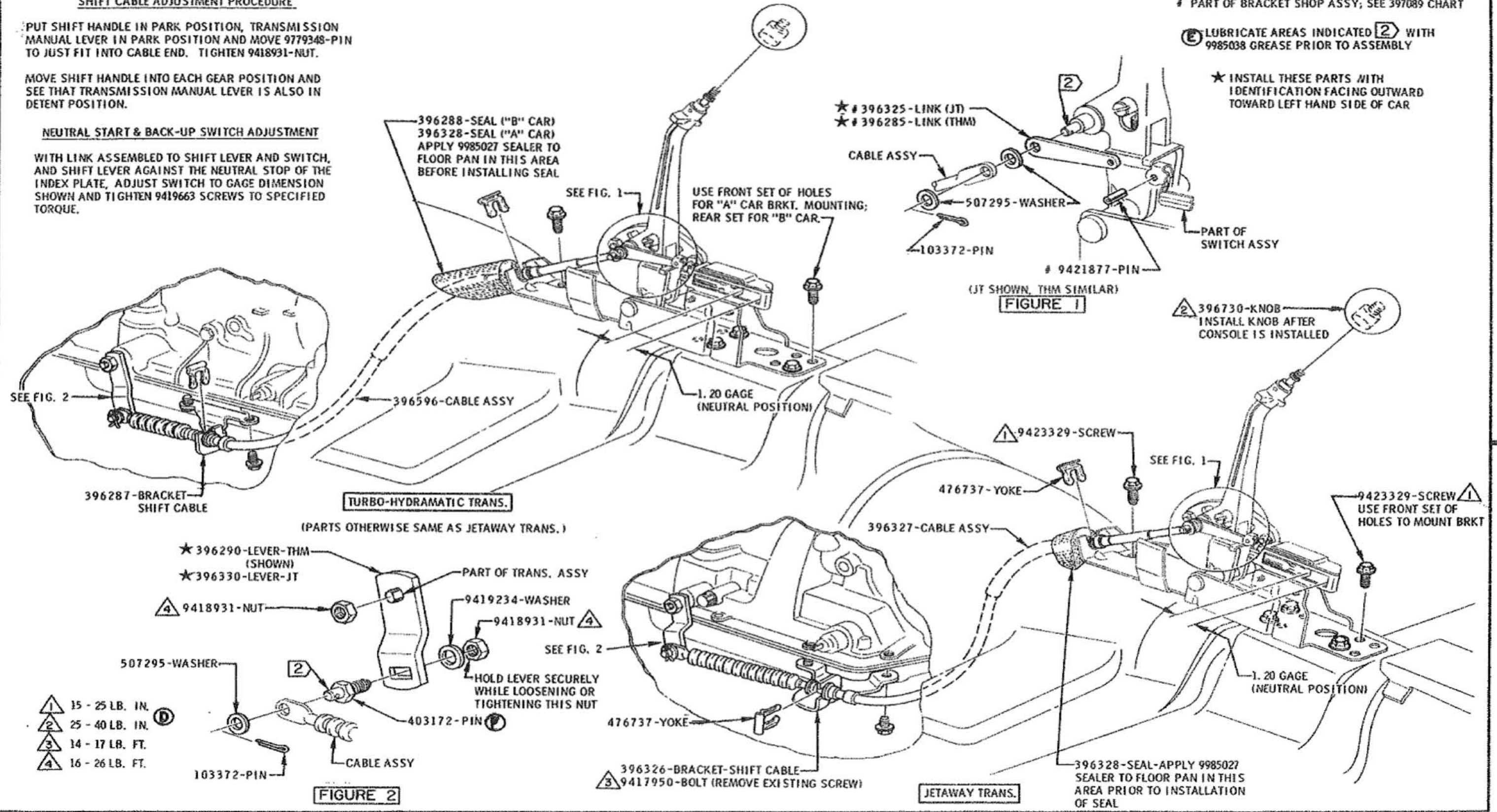
NEUTRAL START & BACK-UP SWITCH ADJUSTMENT

WITH LINK ASSEMBLED TO SHIFT LEVER AND SWITCH, AND SHIFT LEVER AGAINST THE NEUTRAL STOP OF THE INDEX PLATE, ADJUST SWITCH TO GAGE DIMENSION SHOWN AND TIGHTEN 9419663 SCREWS TO SPECIFIED TORQUE.

PART OF BRACKET SHOP ASSY; SEE 397089 CHART

Ⓞ LUBRICATE AREAS INDICATED ② WITH 9985038 GREASE PRIOR TO ASSEMBLY

★ INSTALL THESE PARTS WITH IDENTIFICATION FACING OUTWARD TOWARD LEFT HAND SIDE OF CAR



- ① 15 - 25 LB. IN.
- ② 25 - 40 LB. IN. Ⓞ
- ③ 14 - 17 LB. FT.
- ④ 16 - 26 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-1-67	E	NOTE REVISED									AUTOMATIC TRANSMISSION FLOOR SHIFT CONTROL	1968		7	146
					8-29-67	D	TORQUE'S REVISED									DATE DECEMBER 16, 1966				
					8-7-67	C	WAS 10-15 LB. FT.									DR. BY W.G. MASON				
					6-16-67	B	NOTE REVISED									CHECKED <i>[Signature]</i>				
					5-2-67	A	NOTE ADDED									APPR. A. ROZNOWSKI				
		2-12-68				F	WAS 9779348-PIN										REF. TR 6715 TR. 6760 SSM32, M34, M40, M41	SERIES A-B	PART NO. 398162-3	

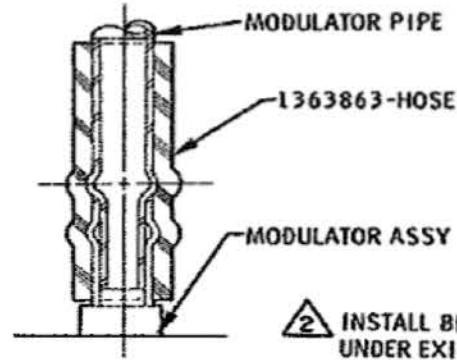
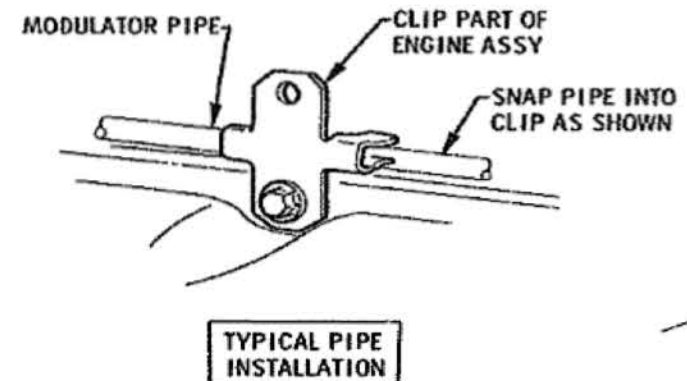


FIGURE 3



TYPICAL PIPE INSTALLATION

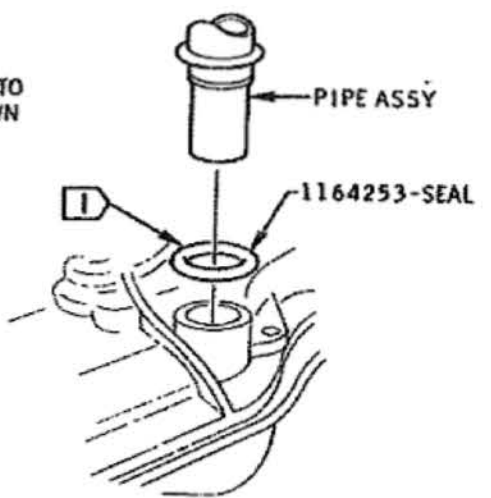
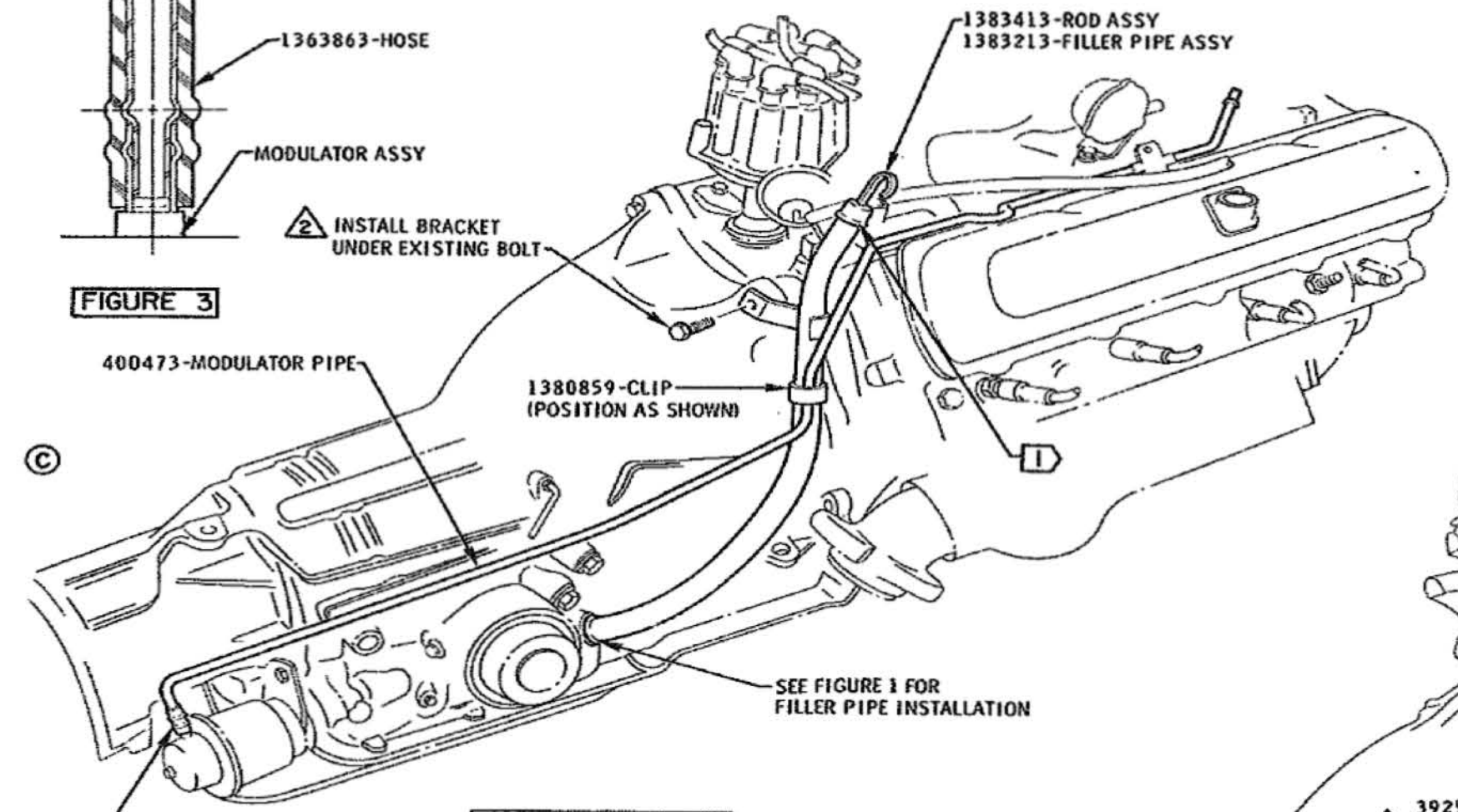
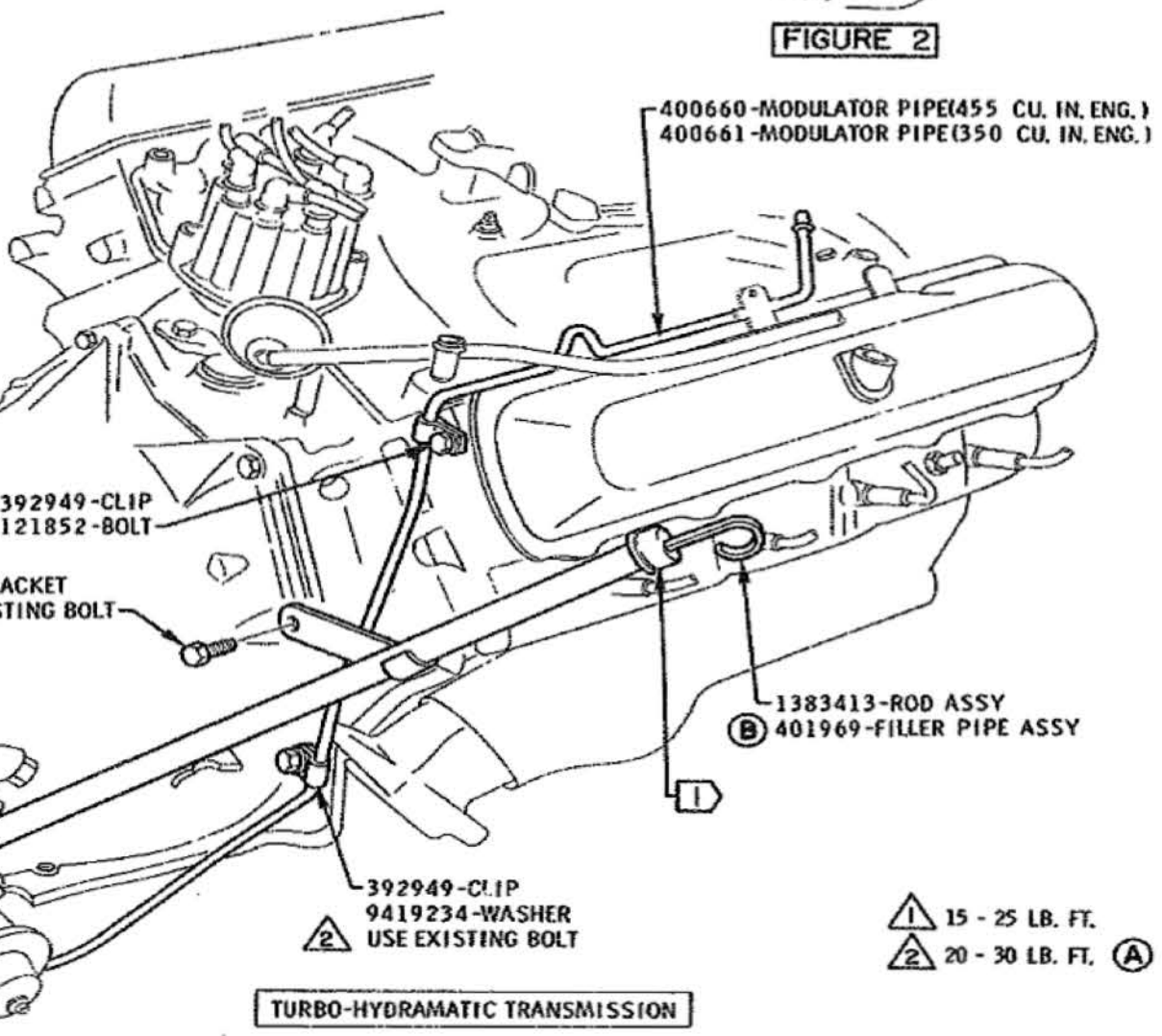


FIGURE 2



JETAWAY TRANSMISSION



TURBO-HYDRAMATIC TRANSMISSION

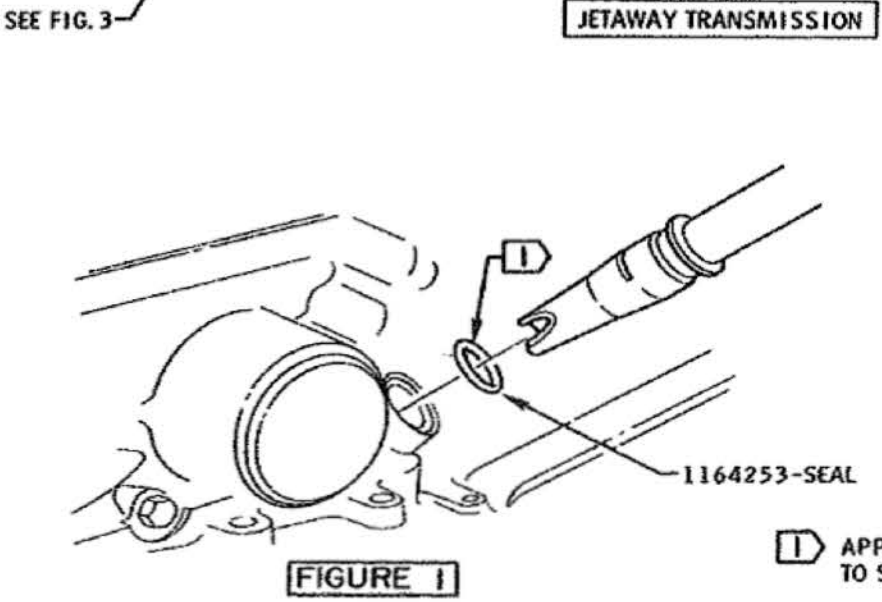


FIGURE 1

1 APPLY 9981117-LUBE TO SEAL PRIOR TO ASSY

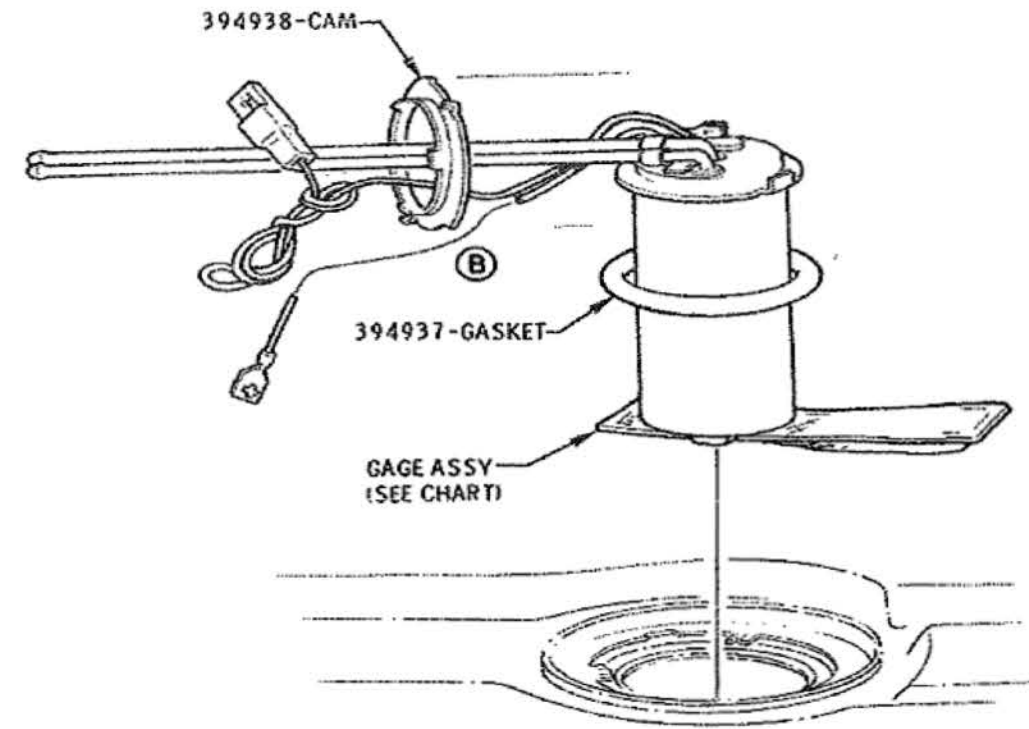
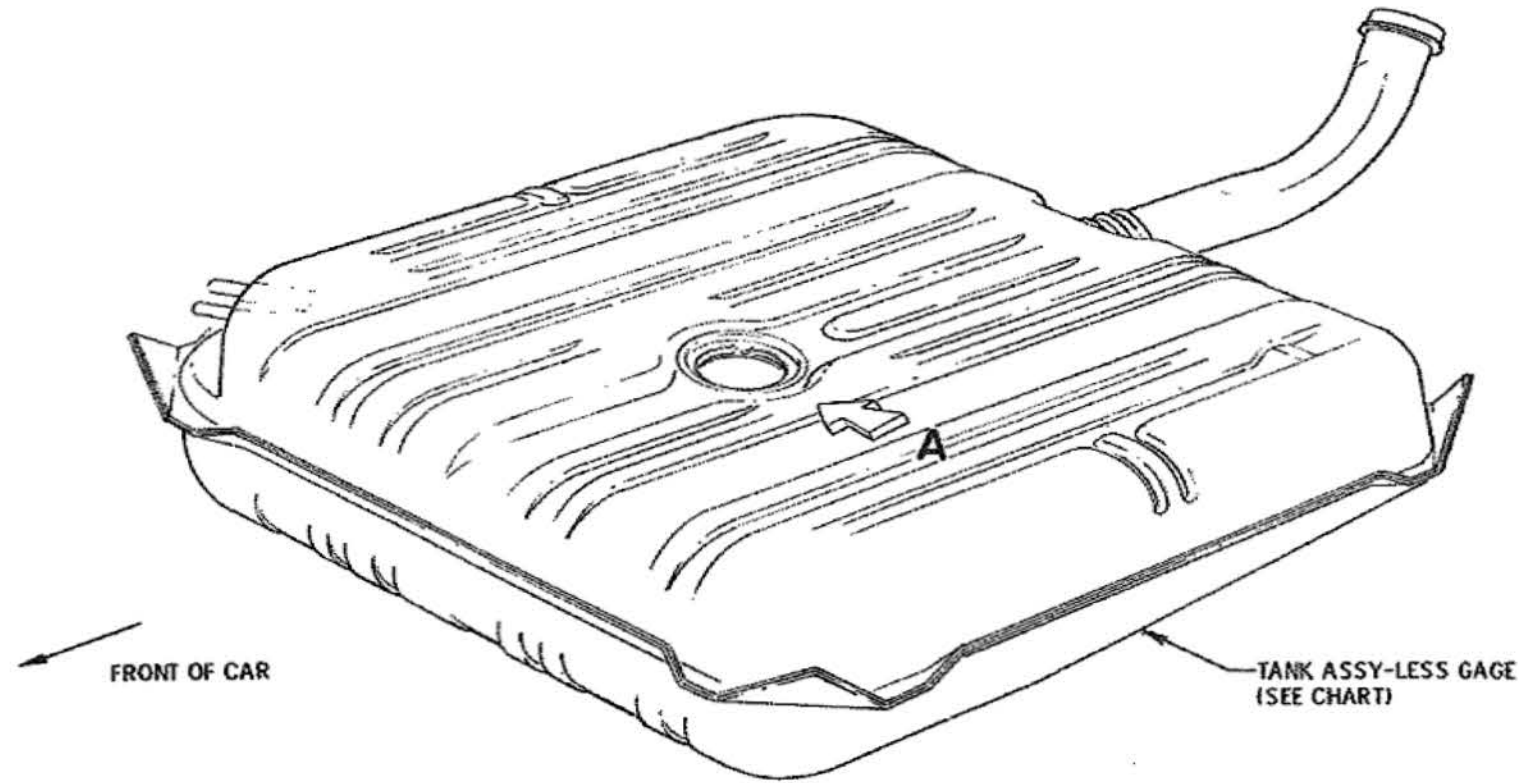
SEE FIGURE 2 FOR FILLER PIPE INSTALLATION

SEE FIGURE 1 FOR FILLER PIPE INSTALLATION

SEE FIG. 3

- 1 15 - 25 LB. FT.
- 2 20 - 30 LB. FT. (A)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																MODULATOR AND FILLER PIPES	1968		7	150
					4-26-68	C	385061-RETAINER REMD	SR	MYB							DATE MARCH 16, 1967				
					9-15-67	B	WAS 400685	CM	MYB							DR. BY ED J. ROE				
					8-7-67	A	WAS 30-45 LB.FT.	UR	MYB							CHECKED MYB	REF. 35M31 -M40-M41	SERIES B-C	PART NO.	398163
																APPR. F. ROZNOWSKI	(7B3A - 7B3C)			



VIEW A

FUEL GAGE INSTALLATION

FUEL GAGE AND TANK ASSY USAGE CHART

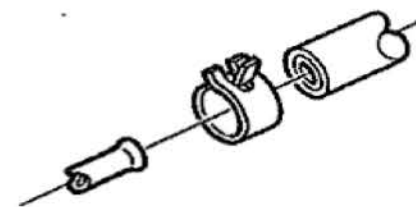
USAGE	GAGE ASSY	TANK ASSY (LESS GAGE)	TANK ASSY (COMPLETE)
5400 ALL, 56, 64, 66 EXC. 35C60, 61/L76	6427165	399446	399444
84, 8600 EXC. A/C	6427165	399447	399445
56, 64, 6600 WITH 35C60, 61/L76	6427307	399446	399454
84, 8600 WITH A/C	6427307	399447	399455

(A)

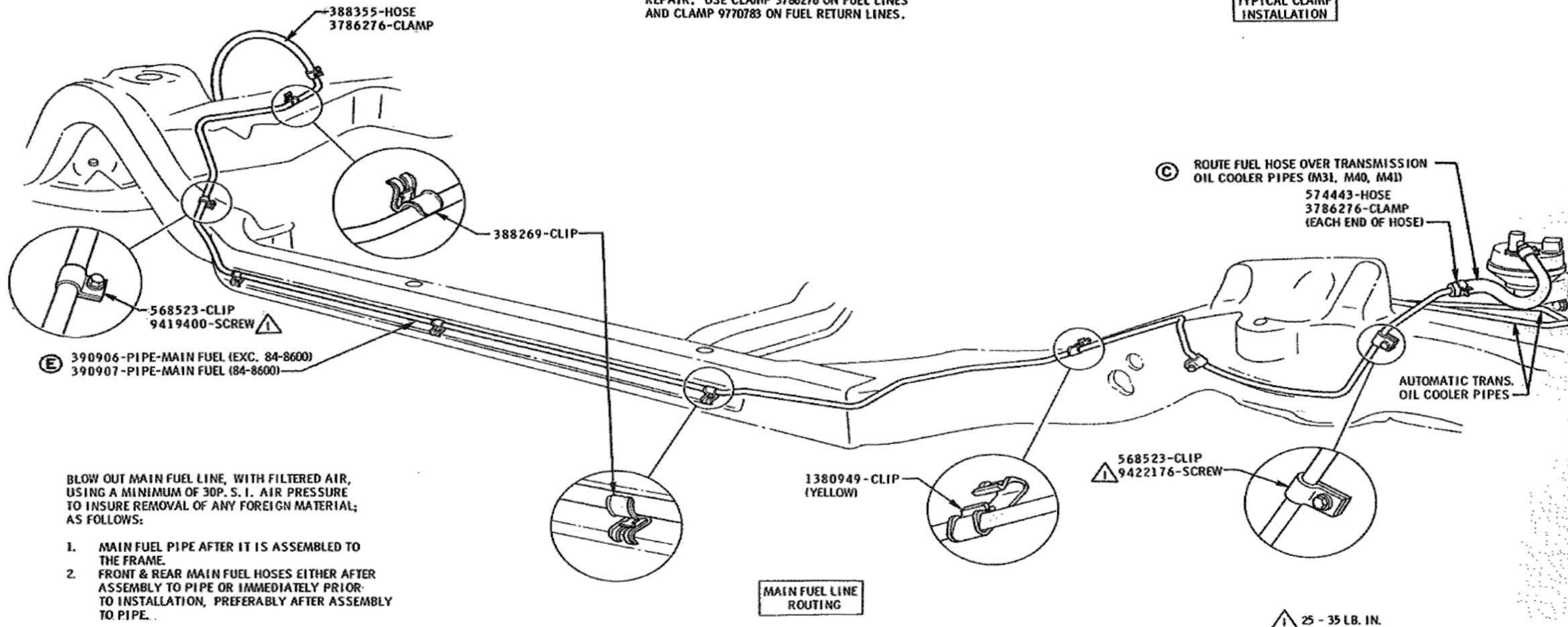
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
												CHART- FUEL TANK ASSEMBLY COMPLETE	1968		8	100
				1-30-68	B	WIRE ROUTING REVISED	JMB					CHECKED <i>M. Barnhart</i>				
				1-2-68	A	CHART REVISED	JMB					APPR. <i>E. J. ...</i>	REF-BA - 35C60-C61	SERIES B-C	PART NO. 398163	

FUEL & FUEL RETURN LINE REPAIR PROCEDURE

1. CUT OUT DAMAGED PORTION OF FUEL LINE.
2. CUT A PIECE OF HOSE 4' LONGER THAN PORTION OF LINE REMOVED. HOSES 574443 (FUEL) AND 381443 (FUEL RETURN) MAY BE USED.
3. SLIDE HOSE 2' ONTO EACH PORTION OF FUEL PIPE.
4. CLAMP HOSE TO EACH PIPE ON EACH SIDE OF REPAIR. USE CLAMP 3786276 ON FUEL LINES AND CLAMP 9770783 ON FUEL RETURN LINES.



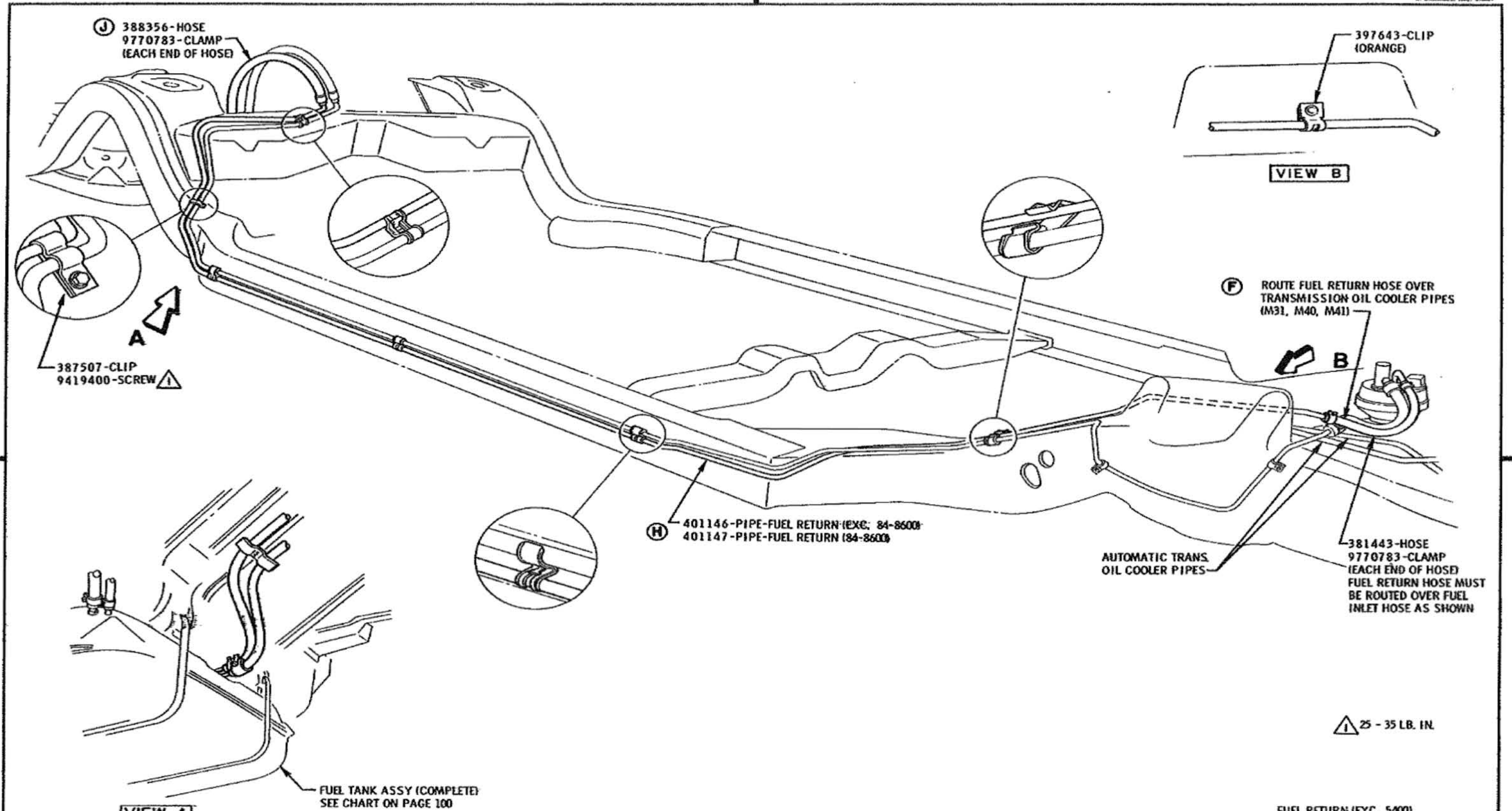
TYPICAL CLAMP INSTALLATION



BLOW OUT MAIN FUEL LINE, WITH FILTERED AIR, USING A MINIMUM OF 30P. S. I. AIR PRESSURE TO INSURE REMOVAL OF ANY FOREIGN MATERIAL; AS FOLLOWS:

1. MAIN FUEL PIPE AFTER IT IS ASSEMBLED TO THE FRAME.
2. FRONT & REAR MAIN FUEL HOSES EITHER AFTER ASSEMBLY TO PIPE OR IMMEDIATELY PRIOR TO INSTALLATION, PREFERABLY AFTER ASSEMBLY TO PIPE.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					10-27-67	E	PIPE REV. TO DETAIL	J13	MB											
					9-22-67	D	TORQUE ADDED	FRK	MB							DATE DECEMBER 15, 1966	1968		8	110
					9-1-67	C	NOTE ADDED	OR	MB							DR. BY ED ROG				
					3-6-67	B	WAS 5001339 CLIP ASSY	PS	MB							CHECKED MB Barnhart				
					2-21-67	A	NOTE REVISED	OR	MB							APPR. J.L. Lemay	REF. 8B			
																		SERIES B-C	PART NO. 398163	



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
11-6-67	J	WAS 502044-HOSE	F.R.	MTZ	7-20-67	E	ROUTING REVISED	F.R.	MTZ	DATE	DECEMBER 15, 1966					1968		8	112	
10-27-67	H	PIPES REV. TO DETAIL	F.R.	MTZ	5-3-67	D	WAS 387506-PIPE	F.R.	MTZ	DR. BY	ED ROE									
9-22-67	G	TORQUE ADDED	F.R.	MTZ	5-3-67	C	WAS 387505-PIPE	F.R.	MTZ	CHECKED	MTZ						REF. 35C60-C61			
8-31-67	F	NOTE ADDED	F.R.	MTZ	3-6-67	A	WAS 3881339-CLIP ASSY	F.R.	MTZ	APPR.	J. P. Lambert									
																SERIES				
																B-C				398163

FUEL RETURN (EXC. 5400)

⚠ 25 - 35 LB. IN.

FUEL TANK ASSY (COMPLETE)
SEE CHART ON PAGE 100

AUTOMATIC TRANS.
OIL COOLER PIPES

381443-HOSE
9770783-CLAMP
(EACH END OF HOSE)
FUEL RETURN HOSE MUST
BE ROUTED OVER FUEL
INLET HOSE AS SHOWN

F ROUTE FUEL RETURN HOSE OVER
TRANSMISSION OIL COOLER PIPES
(M31, M40, M41)

VIEW B

397643-CLIP
(ORANGE)

A

387507-CLIP
9419400-SCREW

VIEW A

H 401146-PIPE-FUEL RETURN (EXC. 84-8600)
401147-PIPE-FUEL RETURN (84-8600)

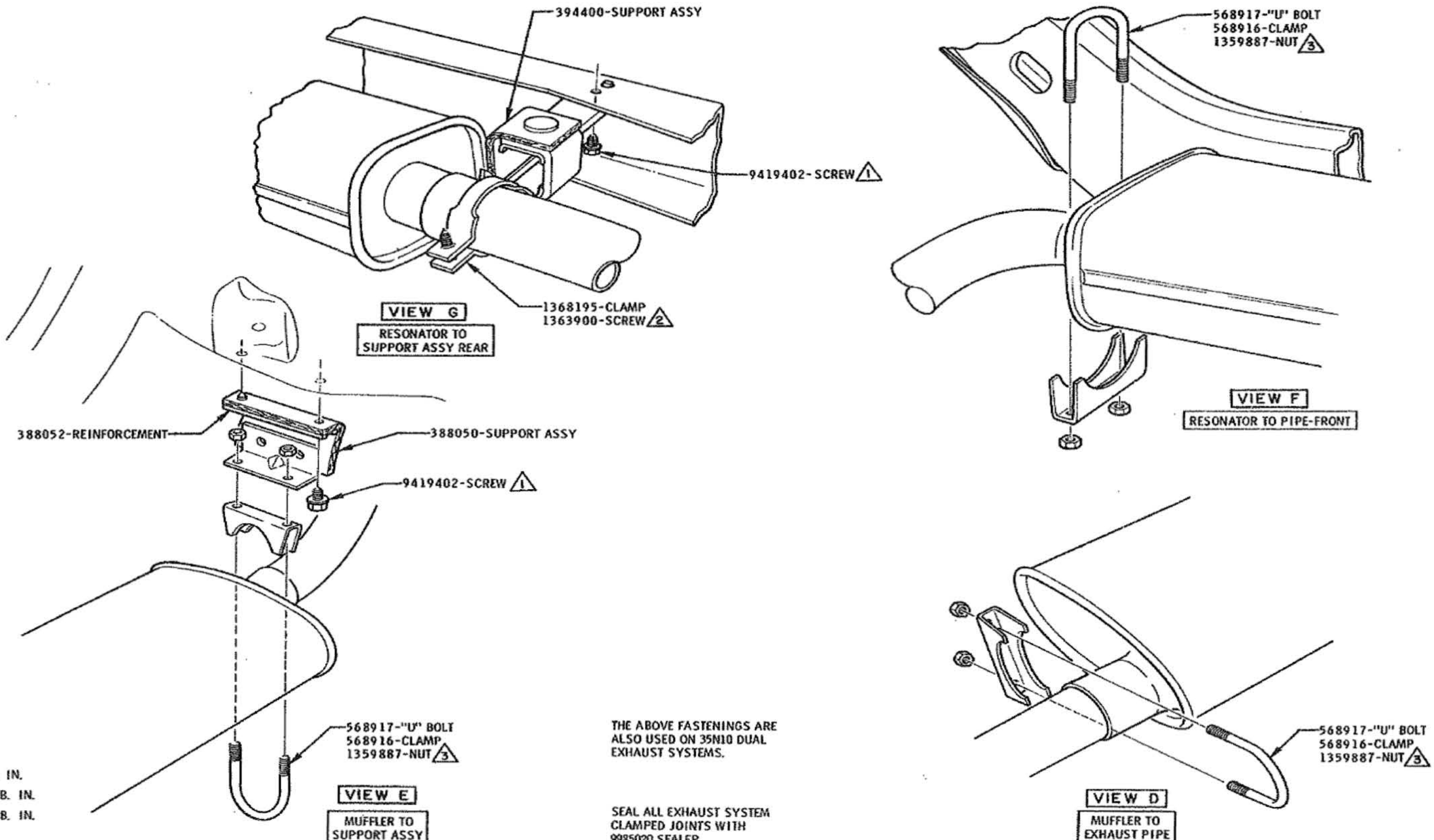
J 388356-HOSE
9770783-CLAMP
(EACH END OF HOSE)

MODEL	GROUP	CROSS OVER PIPE ASSY	EXHAUST MANIFOLD CAP	EXHAUST PIPE FLANGE	EXHAUST PIPE		MUFFLER ASSY		MUFFLER TO RESONATOR PIPE		RESONATOR ASSY		
					R.H.	L.H.	R.H.	L.H.	R.H.	L.H.	R.H.	L.H.	
5400	8C	382484		382486	394490		400530		394398		395186		
5400	35M31				394590								
56-64-6600	8C	386493		394299	394591		387838		394398		395186		
56-64-6600	35N10		386498			392313	400530	388060		394399		395187	
84-8600	8C	386493			394592		387838		394396		395186		
84-8600	35N10		386498			392315	400530	388060		394397		395187	

(A)

(B) (C)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					4-1-68	C	400530-ADDED			12/28/66					DATE DECEMBER 28, 1966	1968		8	120
					3-6-67	B	400530-ADDED								DR. BY ED J. ROE				
					3-6-67	A	395186-ADDED								CHECKED MBarnhart				
															APPR. J.R. Linnick				
															DR. CK. APPR. B. T. Linnick				
																	SERIES B-C	PART NO. 398163	

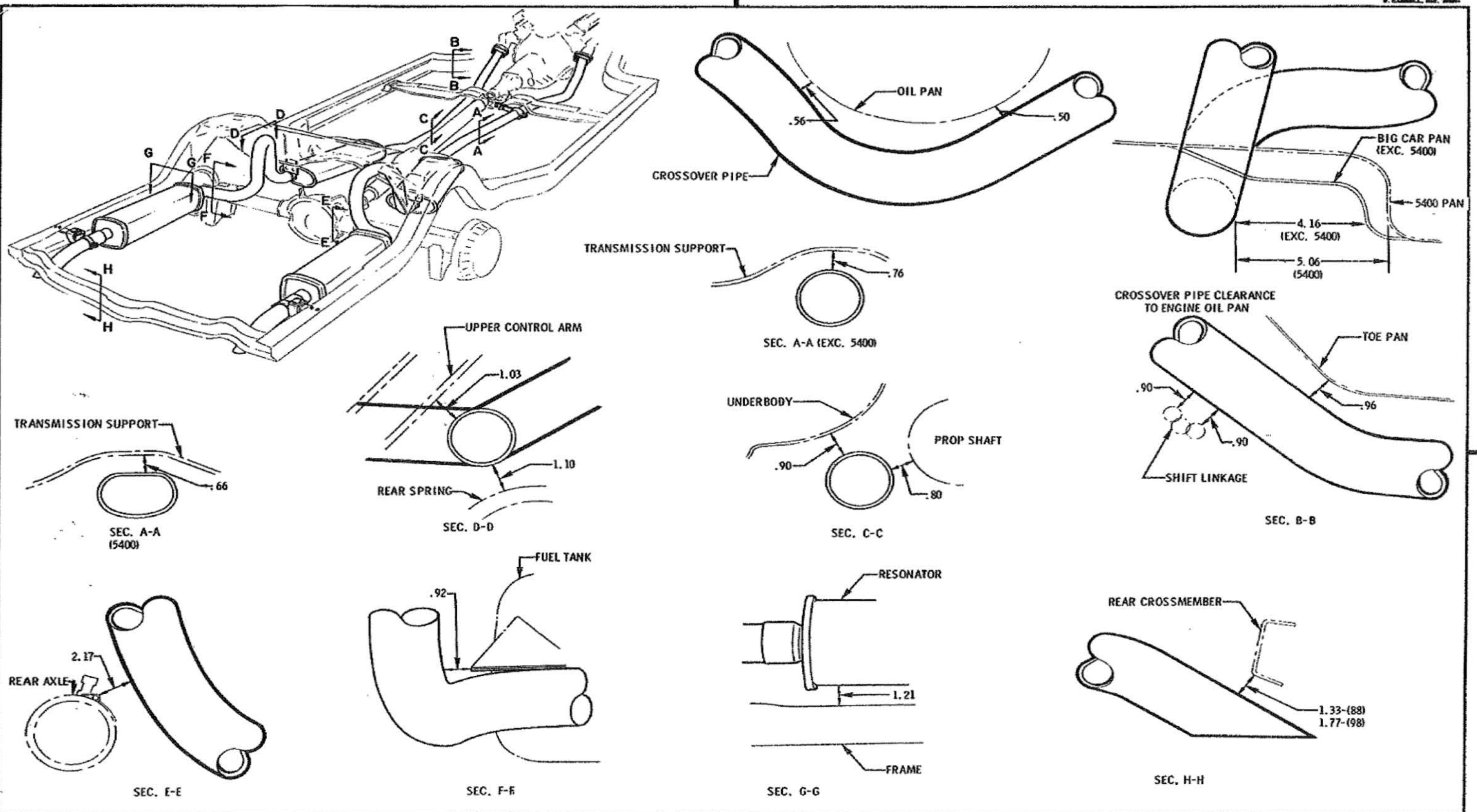


THE ABOVE FASTENINGS ARE ALSO USED ON 35N10 DUAL EXHAUST SYSTEMS.

SEAL ALL EXHAUST SYSTEM CLAMPED JOINTS WITH 9985020 SEALER.

- ¹ 72 - 96 LB. IN.
- ² 108 - 144 LB. IN.
- ³ 132 - 180 LB. IN.

REVISION										TITLE										
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	
												EXHAUST SYSTEM								
												DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE				
												JANUARY 5, 1967	1968	INFORMATION MANUAL	8	132				
												DR. BY	REF.	SERIES	PART NO.					
												ED J ROE		B-C	398163					
												CHECKED								
												M Barnhart								
												APPR.								
												J.R. Lough								
												APPR.								
												G. Toudy								



REVISION										TITLE									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
										EXHAUST SYSTEM									
										DATE JANUARY 6, 1967		FIRST USED	OLDSMOBILE PRODUCT		MANUAL SECTION	PAGE			
										DR. BY ED J. ROE		1968	INFORMATION MANUAL		8	133			
										CHECKED M. J. BARNHART		REF.	SERIES		PART NO.				
										APPR. J. E. LAMBERT			B-C		398163				
										APPR. B. T. WILSON									

POWER STEERING INSTALLATION AND FILL PROCEDURE

1. POWER STEERING GEAR TO BE INSTALLED ON FRAME WITH PLASTIC PLUGS IN PLACE.

NOTE: "E" ONLY - PITMAN ARM TO BE PREASSEMBLED TO GEAR (180-210 LB. FT. TORQUE) PRIOR TO INSTALLATION ON FRAME.

2. DO NOT REMOVE PLASTIC PLUGS FROM STEERING GEAR UNTIL:

- A. AFTER PITMAN ARM IS INSTALLED ON GEAR SPLINE.
- B. A MINIMUM OF 15 SECONDS HAVE ELAPSED AFTER COMPLETING PITMAN ARM INSTALLATION.
- C. IMMEDIATELY BEFORE INSTALLING THE HOSE ASSEMBLIES TO THE GEAR.

3. DO NOT CRANK THE GEAR UNTIL AFTER FILL OPERATION.

4. ROUTE HOSES AFTER POWER STEERING PUMP BELT IS TIGHTENED.

5. TIGHTEN HOSE ASSEMBLY FITTINGS ON GEAR AND POWER STEERING PUMP WITH 30-40 LB. FT. TORQUE. (B)

6. FILL POWER STEERING SYSTEM WITH A RECIRCULATING FILL SYSTEM USING POWER STEERING FLUID (9985010).

FILL SYSTEM VACUUM IS NOT TO EXCEED 25" HG AND PRESSURE IS NOT TO EXCEED 35PSI AT POWER STEERING PUMP.

(A) 7. CHECK FLUID LEVEL AND ADD AS REQUIRED PRIOR TO TEST ROLLS. LEVEL TO BE 3.5 INCHES FROM TOP OF FILLER NECK, (EXCEPT L6 TO BE 2.5 INCHES)

8. DO NOT CRANK STEERING WHEEL UNTIL FILL OPERATION IS COMPLETED AND LEVEL CHECKED.

9. CHECK HOSES AND FITTINGS FOR LEAKS.

10. INSPECT FLUID LEVEL AFTER ROLLS WHILE OIL IS HOT. ADJUST FLUID LEVEL, AS REQUIRED, TO FLUID LEVEL MARK ON THE PUMP DIP STICK.

										TITLE		CHART - POWER STEERING INSTALLATION & FILL PROCEDURE				
										DATE	FEBRUARY 7, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE
										DR. BY	RODNEY DAVIS	INFORMATION MANUAL	9	100		
										CHECKED	DON MALKIN	REF.		SERIES	PART NO.	400221
										APPR.				ABCE		
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.				

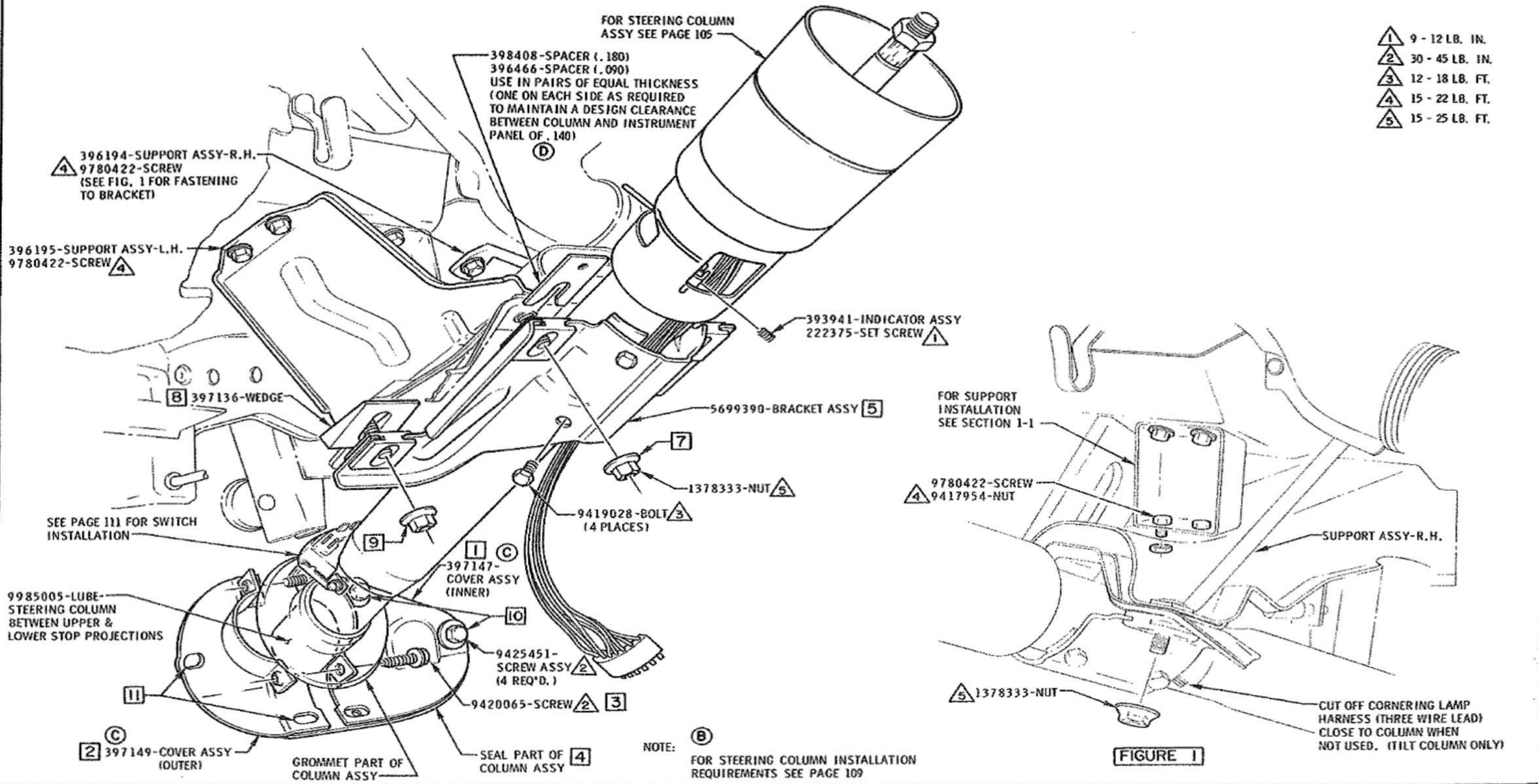
OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

E. CARROLL, INC. 407

PT. NO.	CODE	COLOR	TRANS.	TYPE	USAGE
7802220	SK	BROWN	SMT	COLUMN	F-85
7801828	SL	WHITE	AT & SMT	FLOOR	F-85
(A) 7804250	AA	GREEN	AT	COLUMN	F-85
7801974	SO	BROWN	AT	COLUMN	F-85 TILT WHEEL
7801975	SN	BROWN	AT & SMT	FLOOR	F-85 TILT WHEEL
(D) 7805894	SB	GREEN	AT	COLUMN	B/C WITH CORNERING LIGHTS (T87)
(D) 7805895	SD	GREEN	AT	FLOOR	B/C WITH CORNERING LIGHTS (T87)
(D) 7805890	SG	GREEN	AT	COLUMN	B/C T & T WHEEL WITH CORNERING LIGHTS (T87)
(D) 7805891	SH	GREEN	AT	FLOOR	B/C T & T WHEEL WITH CORNERING LIGHTS (T87)
(D) 7805896	SP	GREEN	AT	COLUMN	B/C
(D) 7805897	SR	GREEN	SMT	COLUMN	B/C
5698351	SF	GREEN	AT	COLUMN	E WITH CORNERING LIGHTS (T87)
(D) 7805982	SI	GREEN	AT	COLUMN	E T & T WHEEL WITH CORNERING LIGHTS (T87)
5699274	ST	GREEN	AT	COLUMN	E
(B) 7803901	SZ	GREEN	AT	FLOOR	E WITH CORNERING LIGHTS (T87)
(C)(D) 7805983	SX	GREEN	AT	FLOOR	E T&T WHEEL WITH CORNERING LIGHTS (T87)

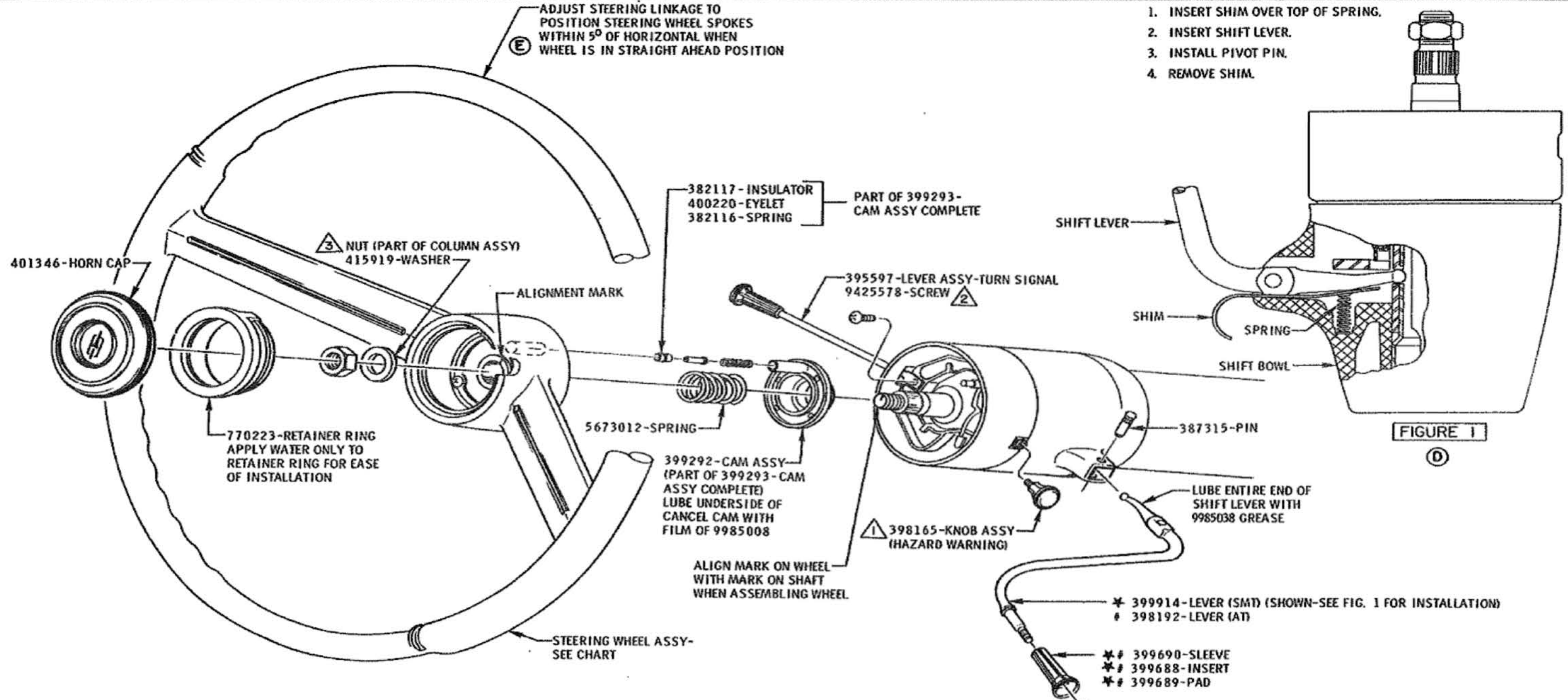
										1227-67 DB PART NOS. REVISED										TITLE CHART - TAPE IDENTIFICATION (STEERING COLUMN)									
										9867 C 7803902 ADDED										DATE FEB. 11, 1967									
										9867 B 7803901 ADDED										FIRST USED 1968									
										9867 A WRS: 7801814										OLDSMOBILE PRODUCT INFORMATION MANUAL									
																				MANUAL SEC. PAGE 9 105									
																				SERIES A-BC-E									
																				PART NO. 400589									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.									



- 1 9 - 12 LB. IN.
- 2 30 - 45 LB. IN.
- 3 12 - 18 LB. FT.
- 4 15 - 22 LB. FT.
- 5 15 - 25 LB. FT.

FIGURE 1

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	SERIES	PART NO.
					3-5-68	D	NOTE REVISED									STEERING COLUMN FASTENINGS	1968		9	110	B-C	398163
					11-30-67	C ₂	REVISED TO DETAIL									DATE FEBRUARY 16, 1967						
					8-21-67	B	INSTALL. REQ'T. ADDED									DR. BY W.E. MASON						
					6-15-67	A	TORQUES REVISED									CHECKED J.M. Bonhart						
																APPR. J.P.R. D.C.	REF. 7A 9C					



ADJUST STEERING LINKAGE TO POSITION STEERING WHEEL SPOKES WITHIN 5° OF HORIZONTAL WHEN WHEEL IS IN STRAIGHT AHEAD POSITION

1. INSERT SHIM OVER TOP OF SPRING.
2. INSERT SHIFT LEVER.
3. INSTALL PIVOT PIN.
4. REMOVE SHIM.

3 NUT (PART OF COLUMN ASSY)
415919-WASHER

ALIGNMENT MARK

770223-RETAINER RING
APPLY WATER ONLY TO
RETAINER RING FOR EASE
OF INSTALLATION

5673012-SPRING

399292-CAM ASSY
(PART OF 399293-CAM
ASSY COMPLETE)
LUBE UNDERSIDE OF
CANCEL CAM WITH
FILM OF 9985008

ALIGN MARK ON WHEEL
WITH MARK ON SHAFT
WHEN ASSEMBLING WHEEL.

STEERING WHEEL ASSY-
SEE CHART

SHIFT LEVER

SHIM

SPRING

SHIFT BOWL

FIGURE 1

LUBE ENTIRE END OF
SHIFT LEVER WITH
9985038 GREASE

* 399914-LEVER (SMT) (SHOWN-SEE FIG. 1 FOR INSTALLATION)
398192-LEVER (AT)

** 399690-SLEEVE
** 399688-INSERT
** 399689-PAD

STANDARD WHEEL ASSY	
9745707	BLACK
9747359	DK. BLUE
9747361	DK. GOLD
9747773	DK. RED
9747362	DK. TURQUOISE
9747363	DK. TEAL

- 1 3 - 5 LB. IN.
- 2 15 - 25 LB. IN.
- 3 30 - 40 LB. FT.

CAUTION
POSITION TURN SIGNAL LEVER AND HAZARD WARNING KNOB IN OFF POSITION BEFORE INSTALLATION OF CAM ASSY.

* PART OF 399913-SHIFT LEVER ASSEMBLY (SMT)
PART OF 398191-SHIFT LEVER ASSEMBLY (AT)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					6-23-67	E	NOTE ADDED									STANDARD STEERING WHEEL & LEVERS	1968		9	115
					6-23-67	D	VIEW ADDED									DATE FEBRUARY 11, 1967				
					6-13-67	C	NOTE ADDED									DR. BY W.E. MASON				
					6-13-67	B	TORQUES ADDED									CHECKED <i>W. Barnhart</i>				
					7-20-67	F	9745707 WAS 9747800									APPR. <i>I.P. Barnhart</i>				
																REF. 7A 9A 9B				
																12C 12G 35M33-40				
																SERIES B-C				
																PART NO. 398163				

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

R. CARROLL, INC. 1968

COLOR	DELUXE WHEEL ASSY	SHROUD PAD ASSY	EMBLEM PAD	EMBLEM ASSY
BLACK	9745745	395632	398976	398969
MIDNIGHT GOLD	9747364	399104	399125	399122
DARK BLUE	9747365	399105	398977	398970
DARK GOLD	9747367	399109	398978	398971
DARK TURQUOISE	9747368	399108	398980	398973
DARK TEAL	9747369	399111	398981	398974
DARK RED (35N30 ONLY)	9747771	399107	398979	398972

(F)

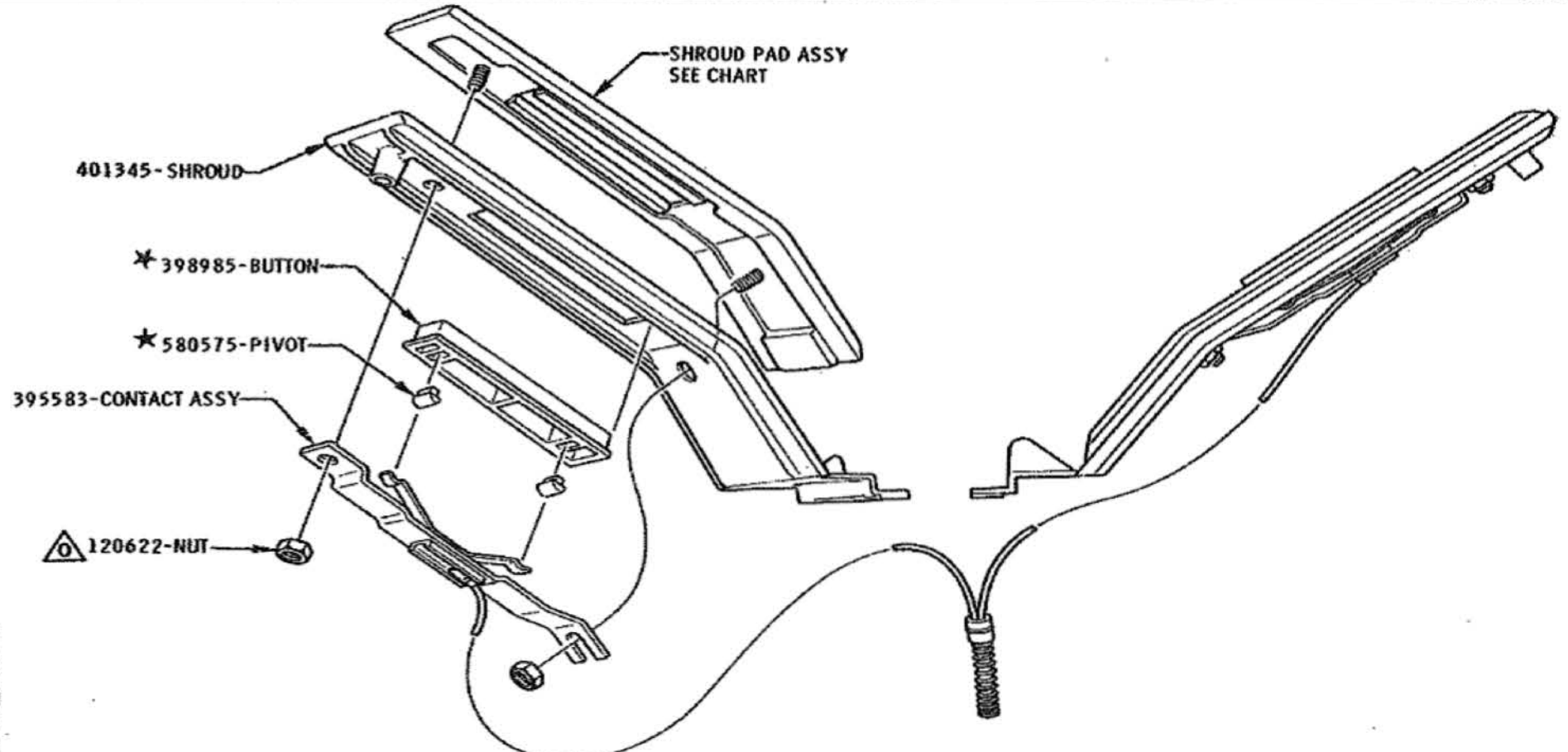


FIGURE 1

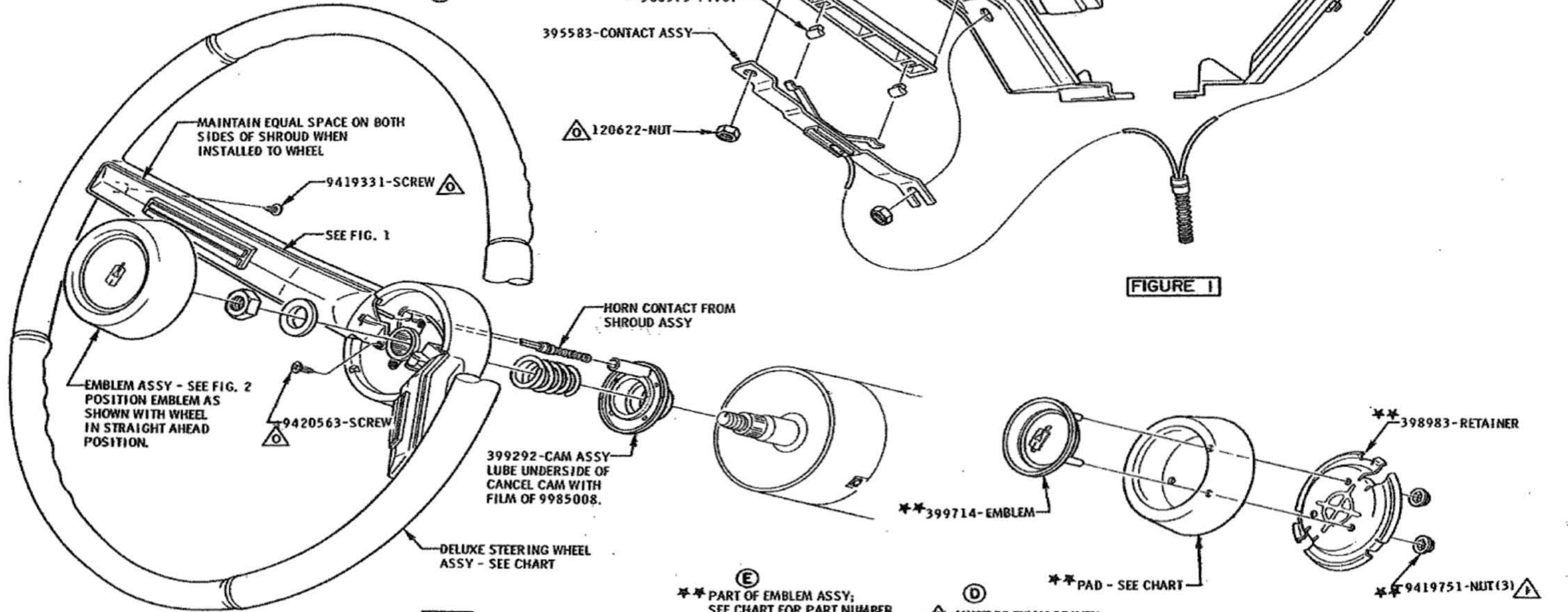


FIGURE 2

NOTE

INSTALLATION OF STEERING WHEEL & LEVERS SHOWN ON PAGE 115.

(E) ** PART OF EMBLEM ASSY; SEE CHART FOR PART NUMBER
* PART OF 398984-BUTTON ASSY

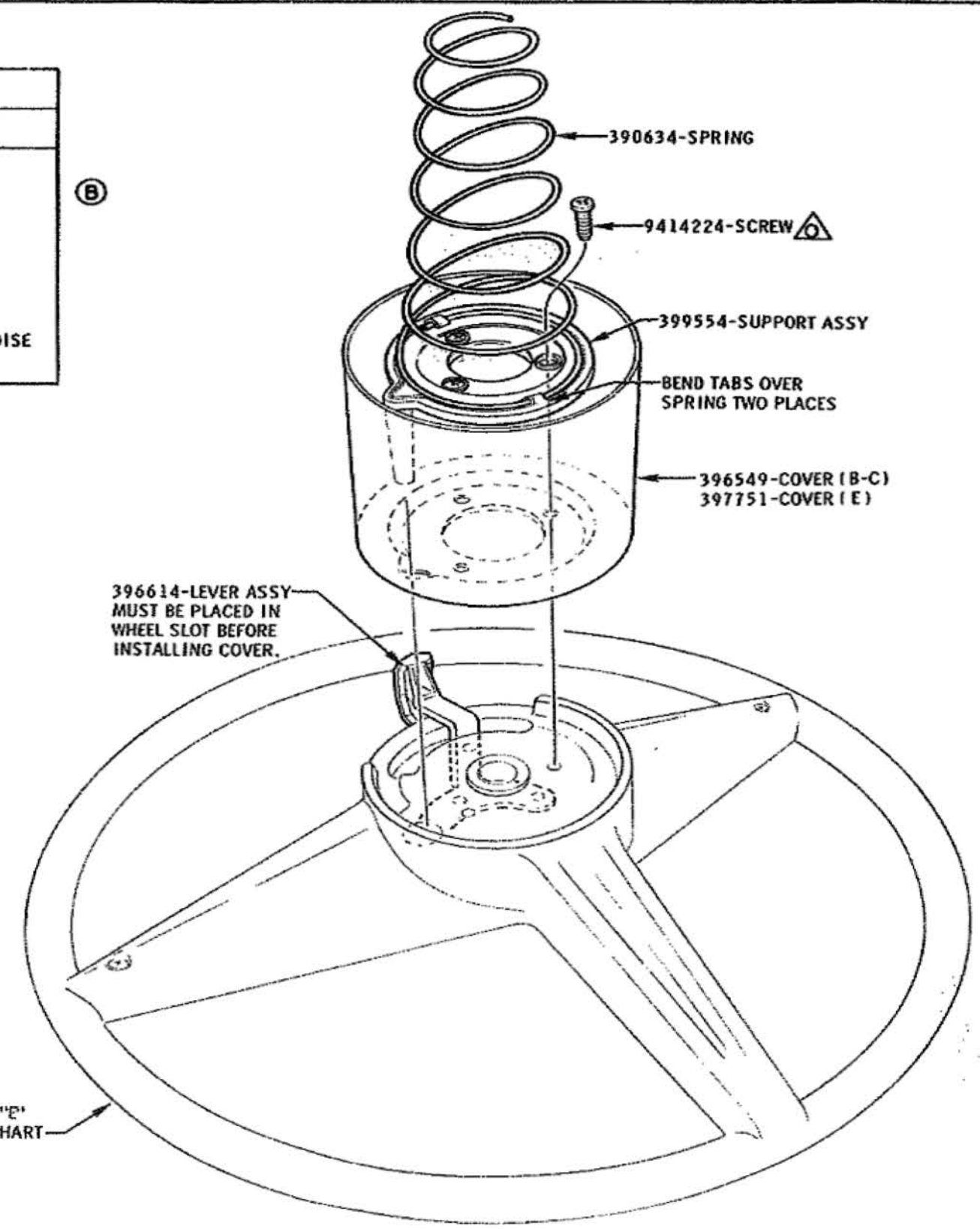
(D) MUST BE FULLY DRIVEN, SEATED, AND NOT STRIPPED
(F) 15 - 20 LB. IN.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					8-9-67	E	NOTE ADDED									DELUXE STEERING WHEEL				
					6-13-67	D	TORQUE ADDED										1968		9	116
					5-25-67	C	WAS 395599-SHROUD													
					3-20-67	B	FIG. 2 ADDED													
					8-9-67	F	CHART REVISED													
					3-3-67	A	CHART REVISED													
																	REF. 9B-12C-126	SERIES B-C	PART NO. 398163	

WHEEL ASSY CHART	
PART NO.	COLOR
9747381	BLACK
9747382	MID. GOLD
9747383	DK. BLUE
9747385	DK. GOLD
9747386	DK. RED
9747387	DK. TURQUOISE
9747388	DK. TEAL

(A)

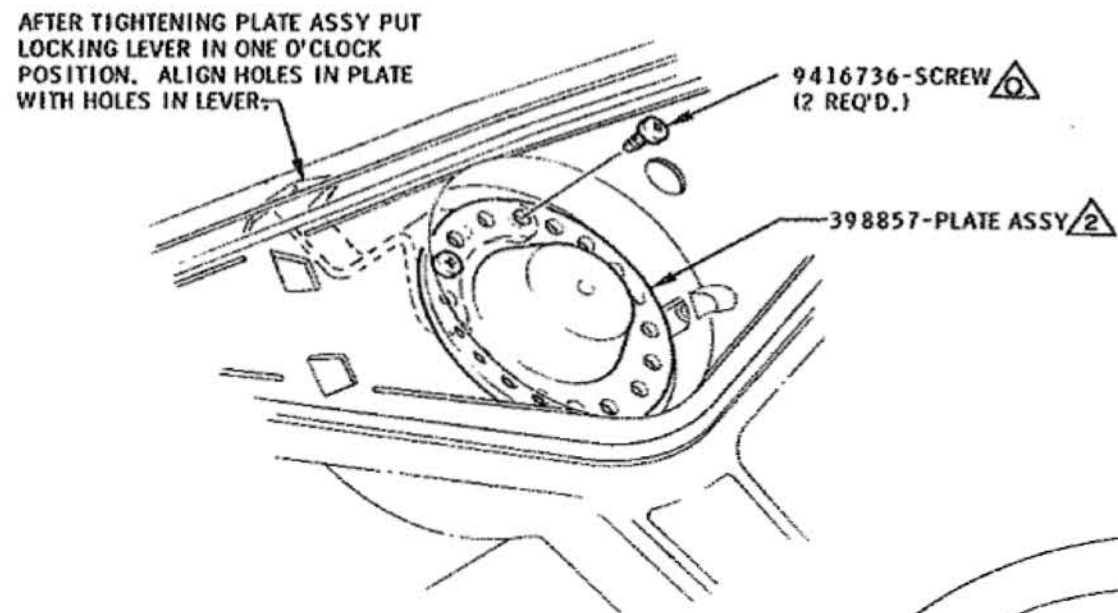
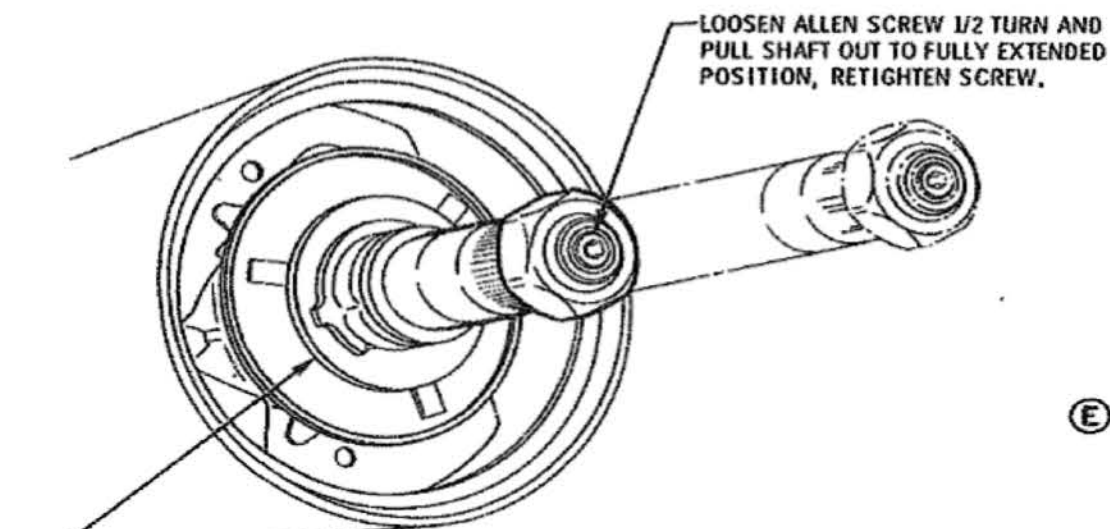
(B)



9747381 - WHEEL ASSY-"E"
"BC"-SEE WHEEL ASSY CHART

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

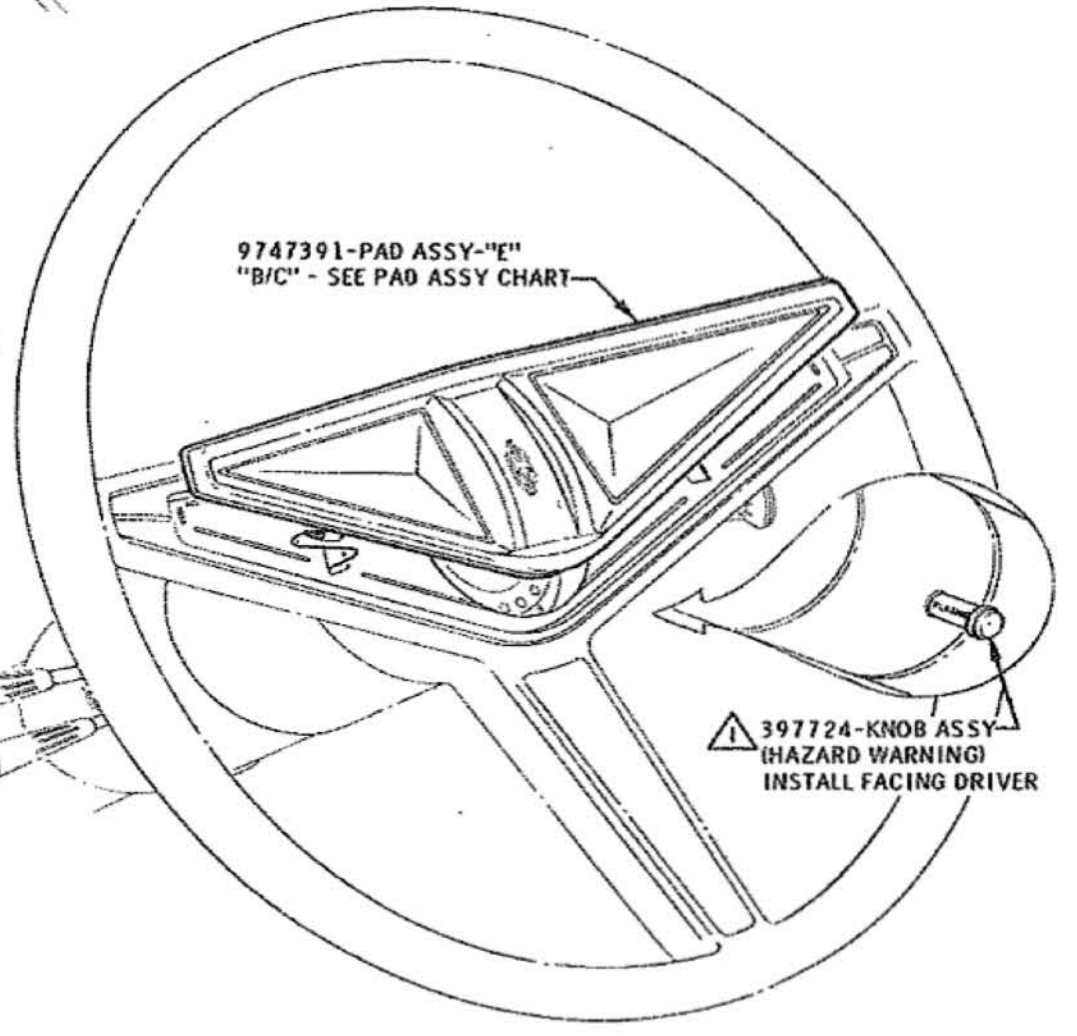
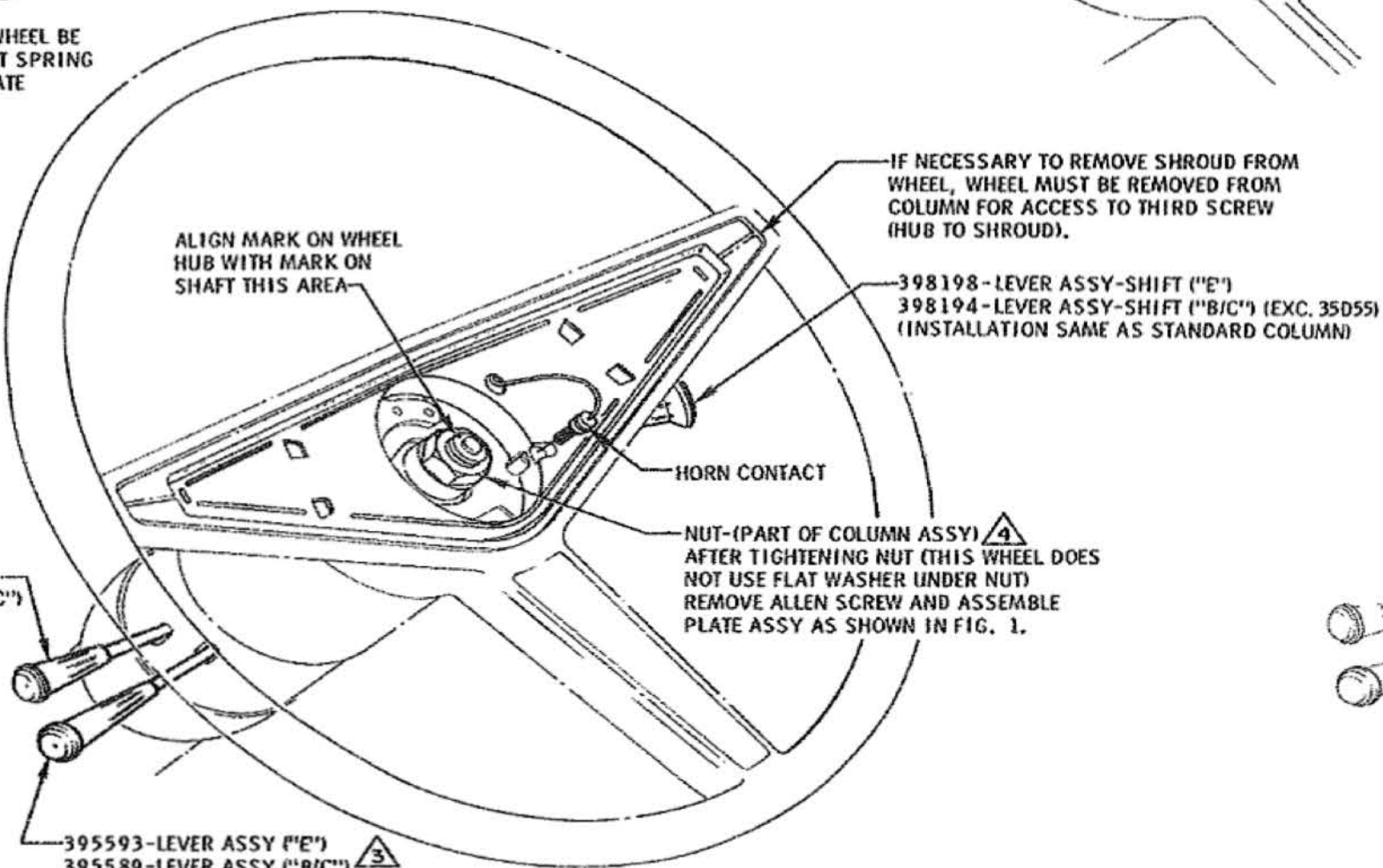
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																					TILT & TRAVEL STEERING WHEEL	1968	9	120
					7-12-67	C	TORQUE NOTE ADDED														DATE JANUARY 26, 1967			
					3-3-67	B	WAS DK. GREEN GOLD														DR. BY J. BOYER			
					2-23-67	A	MID. - BLUE REMOVED														CHECKED <i>MFB</i>			
																					APPR. <i>J.R. [Signature]</i>	REF. 35N37	SERIES B-C-E	PART NO. 398163-4



PAD ASSY CHART

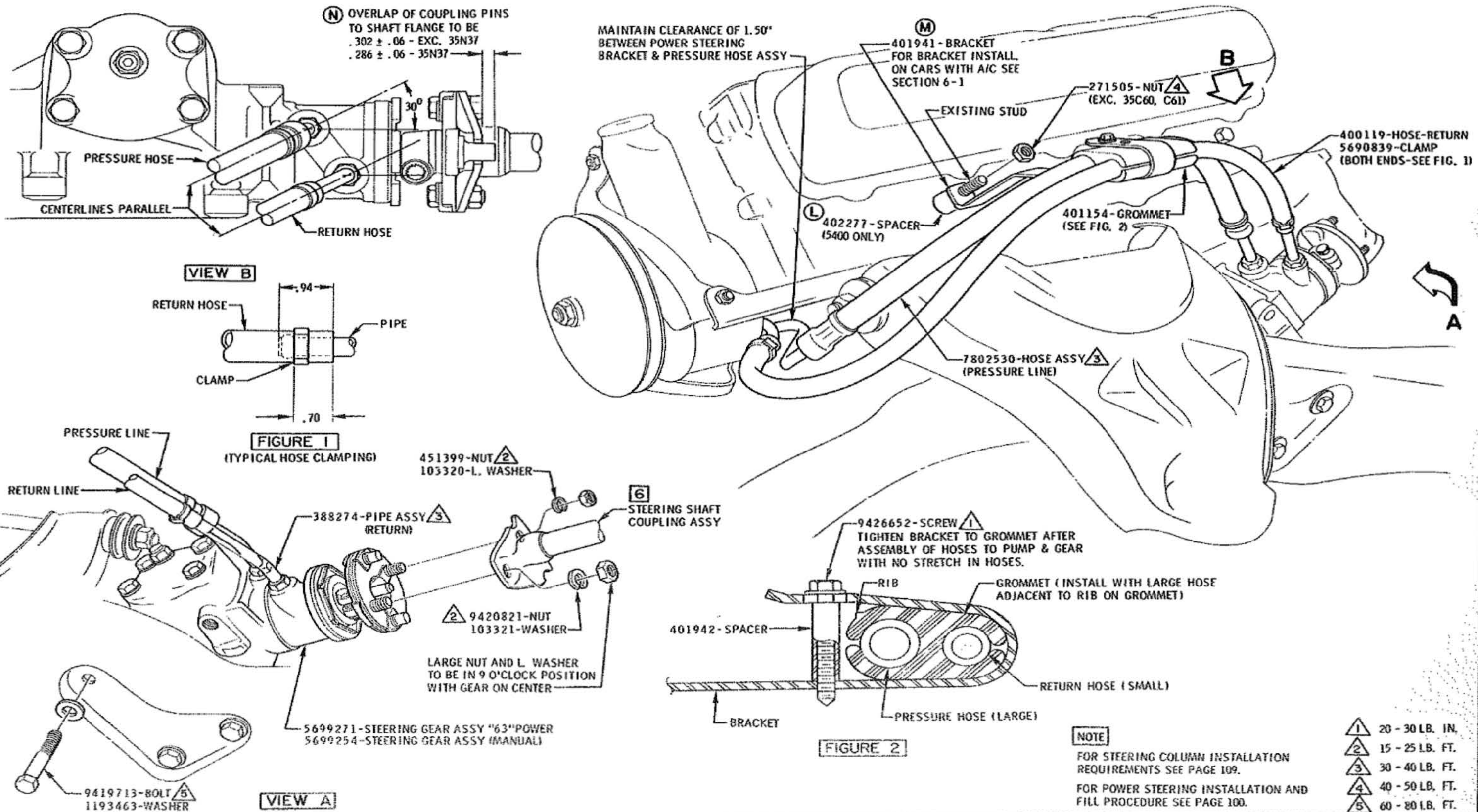
PART NO.	COLOR
9747391	BLACK
9747392	MID. GOLD
9747393	DK. BLUE
9747395	DK. GOLD
9747396	DK. RED
9747397	DK. TURO.
9747398	DK. TEAL

WHEN INSTALLING WHEEL BE SURE HORN CONTACT SPRING IS CENTERED ON PLATE



- ④ 30-40 LB. FT.
- ③ 30-40 LB. IN.
- ② 20-30 LB. IN.
- ① 3-5 LB. IN.
- ⊙ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
										3-6-68	E	LUBE NOTE REMOVED	OK	MB		TILT & TRAVEL STEERING WHEEL	1968		9	121
										7-12-67	D	TORQUES ADDED	U	MB		DATE JANUARY 25, 1967				
										3-3-67	C	WAS DR. GREEN GOLD	OK	MB		DR. BY 130YER				
										3-3-67	B	PART NO CORRECTED	OK	MB		CHECKED MB arnhart				
										2-24-67	A	MID. BLUE REMOVED	OK	MB		APPR. J. J. [signature]	REF. 35H37			
																		SERIES B-C-E	PART NO. 398163-4	



VIEW B

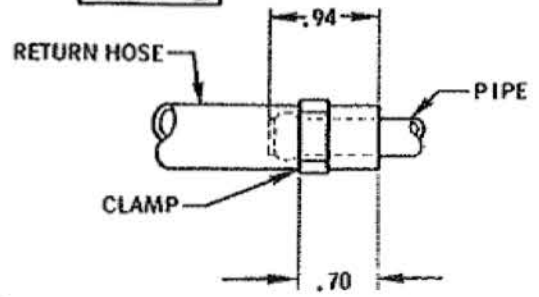
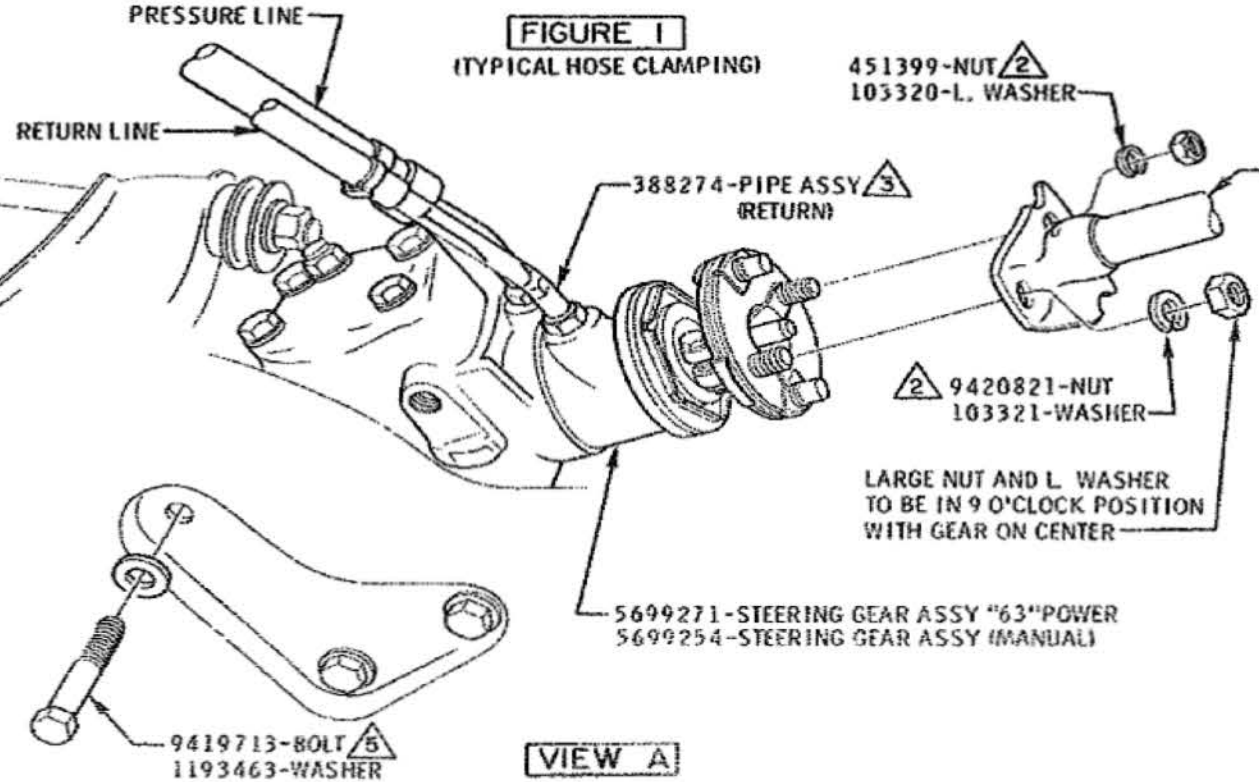


FIGURE 1 (TYPICAL HOSE CLAMPING)



VIEW A

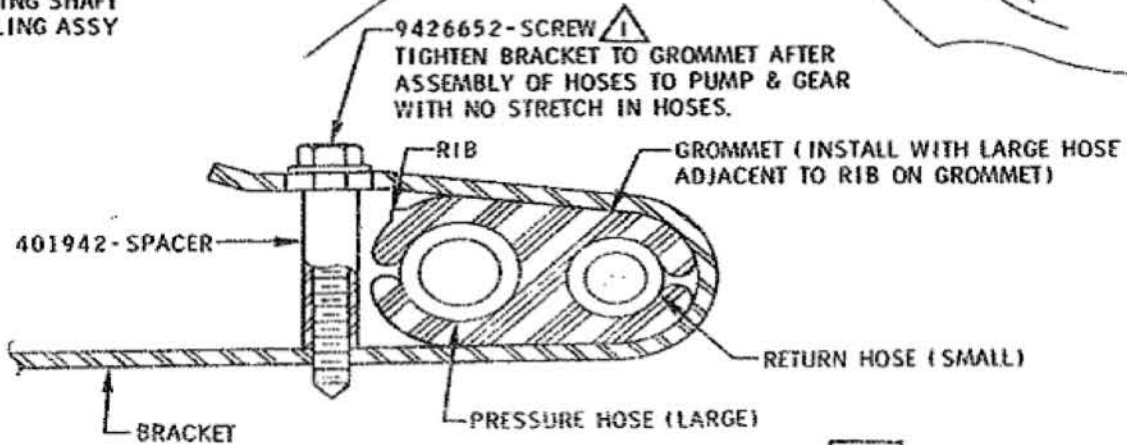


FIGURE 2

NOTE

FOR STEERING COLUMN INSTALLATION REQUIREMENTS SEE PAGE 109.
FOR POWER STEERING INSTALLATION AND FILL PROCEDURE SEE PAGE 100.

- ① 20 - 30 LB. IN.
- ② 15 - 25 LB. FT.
- ③ 30 - 40 LB. FT.
- ④ 40 - 50 LB. FT.
- ⑤ 60 - 80 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					10-5-67	K	TORQUE ADDED	J.A. MYS		8-10-67	L	5699271 REMOVED	J.A. MYS					STEERING GEAR & HOSES			9	125
					9-28-67	J	REISSUED	J.A. MYS		7-31-67	D	REDRAWN & REVISED	J.A. MYS						1968		9	125
1-12-68	H	NOTE REVISED	J.A. MYS		9-19-67	H	REDRAWN & REVISED	J.A. MYS		6-12-67	C	TORQUE REVISED	J.A. MYS					DATE MARCH 13, 1967				
1-2-68	M	REVISED TO DETAIL	J.A. MYS		9-11-67	D	NOTE REVISED	J.A. MYS		6-12-67	B	CLAMP ADDED	J.A. MYS					DR. BY W.E. MASON				
10-19-67	L	WAS 398917	J.A. MYS		8-21-67	F	INSTALL REQ'T ADDED	J.A. MYS		4-21-67	A	HOSE ROUTING REVISED	J.A. MYS					CHECKED T.M.B. Gumbart	REF. 9A 9E			
																		APPR. J.W. Gumbart	35N38	35N40	B-C	PART NO. 398163

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

E. CARROLL, INC. 48151

CODE	PART NUMBERS				TIRE SIZE	WALL COLOR
	UNIROYAL	FIRESTONE	GOODRICH	GOODYEAR		
30	397416	403282 (AA)	397418	397419	8.55 X 14	BLACK
35	397421	403283 (AB)	397423	397424	8.55 X 14	WHITE
37				397740	8.55 X 14	WHITE
40	397872	397873	397874	397875	8.85 X 14	BLACK
45	397877	397878	397879	397880	8.85 X 14	WHITE
47				397741	8.85 X 14	WHITE
60		1381530		1381532	8.45 X 15	BLACK
65		1381538		1381540	8.45 X 15	WHITE
67				397739	8.45 X 15	WHITE
68	3913431			3913432	8.45 X 15	WHITE
70	1382297			1381553	8.85 X 15	BLACK
75	1382276			1381557	8.85 X 15	WHITE
76				397687	8.85 X 15	BLACK
77				399648	8.85 X 15	WHITE
(X) 78 (Y)				1386093	8.85 X 15	WHITE
88		1489328			8.90 X 15	WHITE
89	1383502		1383503	1383504	225 R15	WHITE
90	401237	400008			8.85 X 15	BLACK
95	401239	401381			8.85 X 15	WHITE
97				399890	8.85 X 15	WHITE
99 (Z)		(Z)	399893	(Z)	235 R15	WHITE

4 ply Nylon
4 ply Nylon
4 ply Nylon
4 ply Nylon

SERIES	EXPORT OPTION		DOMESTIC OR EXPORT										
	P16 & J52	P16	Y75	T33	QD3	PE1	P28 EXC. J52, J55, P04	P26	P14	P04	J52 OR J55	STD.	
35439													
35469	67	37	--	--	89	68	60	35	--	65	60	30	
35487													
35467	67	37	--	--	89	68	--	35	--	65	60	30	
35639													
35669	67	37	76	--	89	68	60	35	--	65	60	30	
35687													
35667	67	37	--	--	89	68	--	35	--	65	60	30	
36400	67	37	76	--	89	68	60	35	--	65	60	30	
36600	67	37	--	--	89	68	--	35	--	65	60	30	
38400	77	47	--	--	89	78	--	45	--	75	70	40	
38600	77	47	--	--	89	78	--	45	--	75	70	40	
39400	97	97	--	--	--	--	--	--	99	95	90	90	
39600	97	97	--	--	--	--	--	--	99	95	90	90	
39860	--	--	--	88	--	--	--	--	--	--	--	--	

TO READ CHART:

READING CHART FROM LEFT TO RIGHT, THE FIRST OPTION REACHED THAT IS COMPLETELY SATISFIED WILL INDICATE THE TIRE CODE TO BE USED ON THAT MODEL. IF NONE OF THE CONDITIONS ABOVE ARE SATISFIED, THE LAST COLUMN IS STANDARD CAR (LESS ALL OPTIONS SHOWN TO THE LEFT OF IT) AND WILL INDICATE THE TIRE CODE TO BE USED. PROCEED TO THE CORRELATION CHART TO FIND THE PART NUMBER, SIZE, AND WALL COLOR OF TIRE FOR THAT CODE.

PLY, PLY RATING AND CORD TYPE INFORMATION CAN BE OBTAINED FROM THE DRAWINGS 397400, 397687, 399648, 399739-40-41, 399890, 399891, 401379, 1381524, (AC) 1486344 AND 3904315 WHEN REQUIRED

-- INDICATES THAT THE CONDITIONS SHOWN ARE NOT AVAILABLE.

& INDICATES TOGETHER WITH OPTION SHOWN.

J52 IS FRONT DISC BRAKES - 8.45 X 15 OR 8.85 X 15 TIRE
 J55 IS HEAVY DUTY DISC BRAKE - 8.45 X 15 OR 8.85 X 15 TIRE
 P04 IS 8.45 X 15 OR 8.85 X 15 WHITEWALL TIRE
 P14 IS 235 R15 RADIAL PLY - WHITEWALL
 P16 IS EXPORT OPTION TIRES
 P26 IS WHITEWALL TIRES
 P28 IS 15" WHEEL AND TIRES - BLACKWALL
 PE1 IS 4-PLY 8-PLY RATING - 8.45 X 15 & 8.85 X 15 WHITEWALL
 QD3 IS 225 R15 RADIAL PLY - WHITEWALL
 T33 IS 6-PLY 8-PLY RATING - 8.90 X 15 - WHITEWALL
 Y75 IS REINFORCED 15" WHEEL AND MOUNTING

BLACKWALL

30 - 8.55 X 14
 40 - 8.85 X 14
 60 - 8.45 X 15
 70, 76, 90 - 8.85 X 15

WHITEWALL

35 - 8.55 X 14
 45 - 8.85 X 14
 65 - 8.45 X 15 (2-PLY 4-PLY RATING)
 75, 95 - 8.85 X 15 (2-PLY 4-PLY RATING)
 88 - 8.90 X 15

SPECIAL TIRES

37 - 4-PLY CUSTOM POWER CUSHION - 8.55 X 14
 47 - 4-PLY CUSTOM POWER CUSHION - 8.85 X 14
 67 - 4-PLY CUSTOM POWER CUSHION - 8.45 X 15
 68 - 4-PLY 8-PLY RATING - 8.45 X 15
 77, 97 - 4-PLY CUSTOM POWER CUSHION - 8.85 X 15
 78 - 4-PLY 8-PLY RATING - 8.85 X 15
 89 - 225 R15 RADIAL PLY (QD3)
 99 - 235 R15 RADIAL PLY (P14)

TIRE CODES

THE 1968 TIRE CODING SYSTEM WAS CHANGED TO NUMBERS IN PLACE OF LETTERS, DUE TO LACK OF LETTERS TO COVER ALL THE COMBINATIONS REQUIRED FOR ALL SERIES AND BODY STYLES.

SHORT SILL COWL JOBS (39860) MUST ELECT T33 OPTION. NO STANDARD TIRE SHOWN.

All 4 ply Nylon
 Goodyear - w/w
 3 ridge side wall

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	CHART - TIRE USAGE	MANUAL SEC.	PAGE	
2-1-68	AC	701239 REMOVED	ES	JA	2-1-68	AA	397417	ES	JA	2-1-68	AA	397417	ES	JA	REVISED	FEB. 25, 1967	1968	10	100
2-1-68	AC	701239 REMOVED	ES	JA	2-1-68	AA	397417	ES	JA	2-1-68	AA	397417	ES	JA	REVISED	FEB. 25, 1967	1968	10	100
2-1-68	AC	701239 REMOVED	ES	JA	2-1-68	AA	397417	ES	JA	2-1-68	AA	397417	ES	JA	REVISED	FEB. 25, 1967	1968	10	100

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

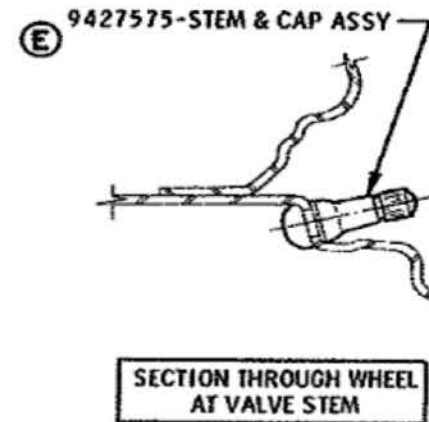
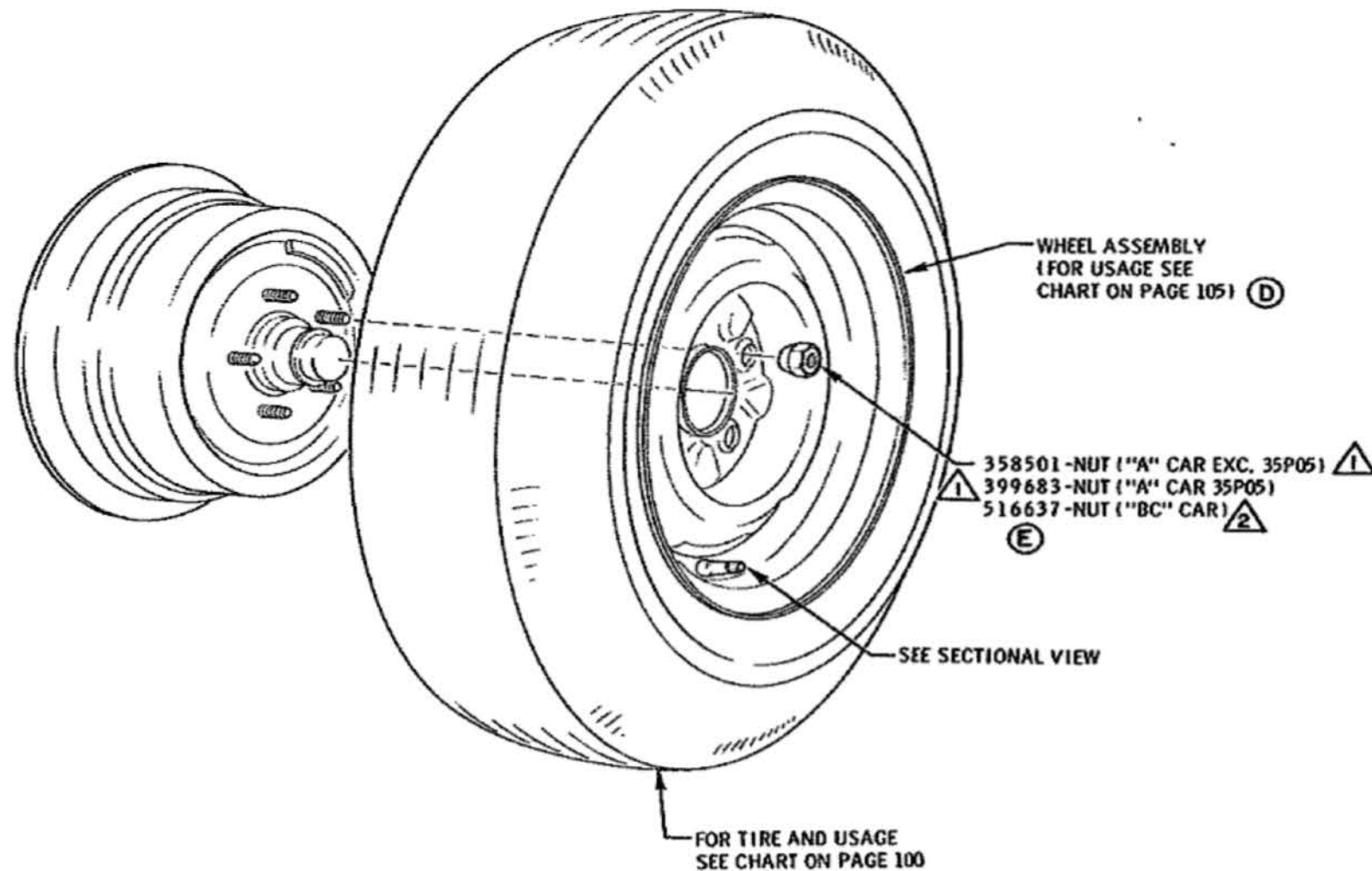
W. CARROLL, INC. 4816

GROUP	DESCRIPTION	F-85			BC			TORONADO		
		PART NO.	CODE	REMARKS	PART NO.	CODE	REMARKS	PART NO.	CODE	REMARKS
10-B	STANDARD (D)	383178 387564	A or XC R	ALL EXC. 442 & EXT. WAGON 442 & EXT. WAGON	588538	S		395265		
J-52	FRONT DISC BRAKE POWER (D)	9773690	HB		396715	LC		395265		
J-55	FRONT DISC BRAKE H.D. (D)	9773690	HB		396715	LC				
(A)										
N-81	WIDE OVAL TIRE (D)	387564	R	EXC. J-52, J-55						
N-98	CHROME WHEEL							395469		
P-03								401292		
P-05	STYLED WHEEL	400422	LS (C)	(B)						
P-14	RADIAL PLY TIRE							395265		
P-28	15" WHEEL	386239	0		396715	LC				
PE-1	TIRE 8 PLY RATING				396715	LC				
PT-2	RADIAL PLY TIRE (D)	387564	R	EXC. J-52, J-55,						
QD-3	RADIAL PLY TIRE				396715	LC				
Y-75	REINFORCED WHEEL				386057	LL				
97-10	CKD	3869447	A or XC							
97-35	CKD FRONT DISC BRAKE (E)	9789284	HB							
98W32	SUP (D)	387564	R	EXC. J-52, J-55,						
99	DRIVEAWAY CHASSIS				396715	LC				

										TITLE		CHART - WHEEL USAGE	
										DATE <u>AUG. 10, 1967</u>		FIRST USED	
										DR. BY <u>DON MALKIN</u>		1968	
										CHECKED <u>J. Jones</u>		OLDSMOBILE PRODUCT INFORMATION MANUAL	
										APPR. <u>L. Jones</u>		MANUAL SEC. <u>10</u> PAGE <u>105</u>	
										SERIES <u>ABCE</u>		PART NO. <u>401818</u>	
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	

3-168 E 9792462 REMOVED
 3-168 D 9791450 REMOVED
 3-168 C WAS CODE LH
 11-68 B 400904 REMOVED
 2-167 A GRP JL6 REMOVED

ES JA
 BS JA
 JS JJ
 KL JJ



STATIC BALANCE WEIGHTS UP TO & INCLUDING 3 OZ. TO BE INSTALLED ON EITHER RIM FLANGE. ABOVE 3 OZ. THE ADDITIONAL WEIGHT TO BE ADDED TO OPPOSITE RIM FLANGE. 5 OZ. MAXIMUM WEIGHT PER WHEEL.

ASSEMBLY INSTRUCTIONS - TIRE TO WHEEL -

1. LUBRICATE TIRE BEADS AND VALVE STEM ASSEMBLY WITH APPROVED LUBRICANT. (SEE PROCESS MATERIAL CHART.)
2. IMMEDIATELY ASSEMBLE VALVE STEM AND TIRE TO WHEEL AND INFLATE TO 24-50 P.S.I. INSTALLATION MUST BE MADE BEFORE LUBRICANT IS DRY.
3. BLACK SIDEWALL TIRES TO BE MOUNTED WITH MANUFACTURING INFORMATION TOWARD CENTERLINE OF CAR.
4. WHEEL AND TIRE ASSY TO BE BALANCED TO WITHIN 4 IN. OZ.
5. RUNOUT OF WHEEL AND TIRE ASSY:
.060 T. I. R. RADIAL MAX.
.085 T. I. R. LATERAL MAX.

(F) LANSING PLANT ONLY :
INSTALL (35P06) POLICE CAR TRIM
RINGS ON THE WHEELS ON THE LINE

- (1) 60 - 80 LB. FT.
- (2) 65 - 85 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					4-25-68	E ₂	35Y75 REMOVED	JR	MB							WHEEL & TIRE ASSY				
					3-1-68	D	NOTE REVISED	JR	MB							DATE MARCH 30, 1967	1968		10	110
					12-20-61	C	NOTE REVISED	MB	MB							DR. BY W.E. MASON				
					6-13-67	B	TORQUE REVISED	MB	MB							CHECKED <i>MB Barnhart</i>				
					4-25-68	F	NOTE ADDED	JR	MB	5-3-67	A ₂	CHART REM'D & NOTE REV.	JR	MB		APPR.				
																		SERIES	PART NO.	
																		AB-C	398162-3	

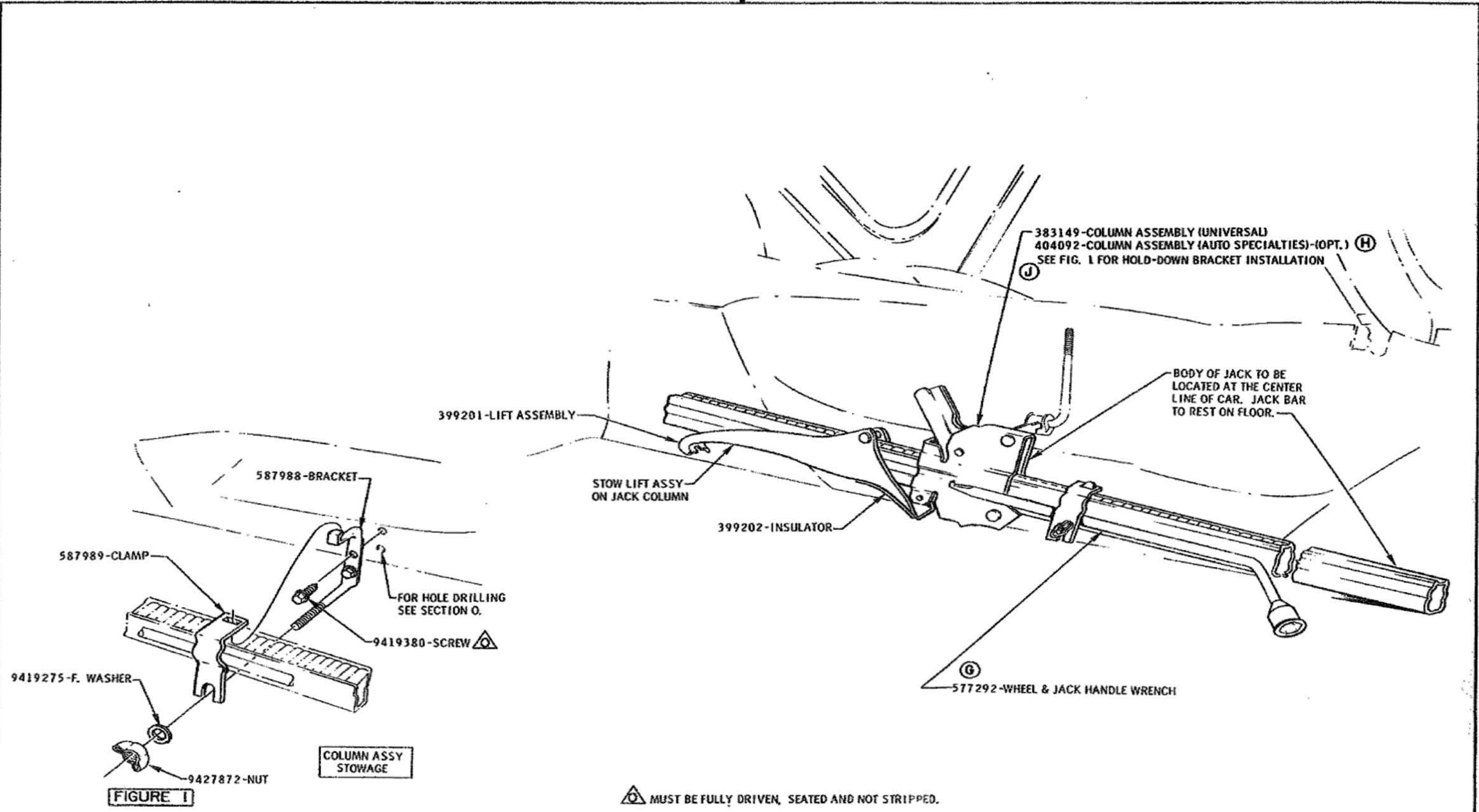
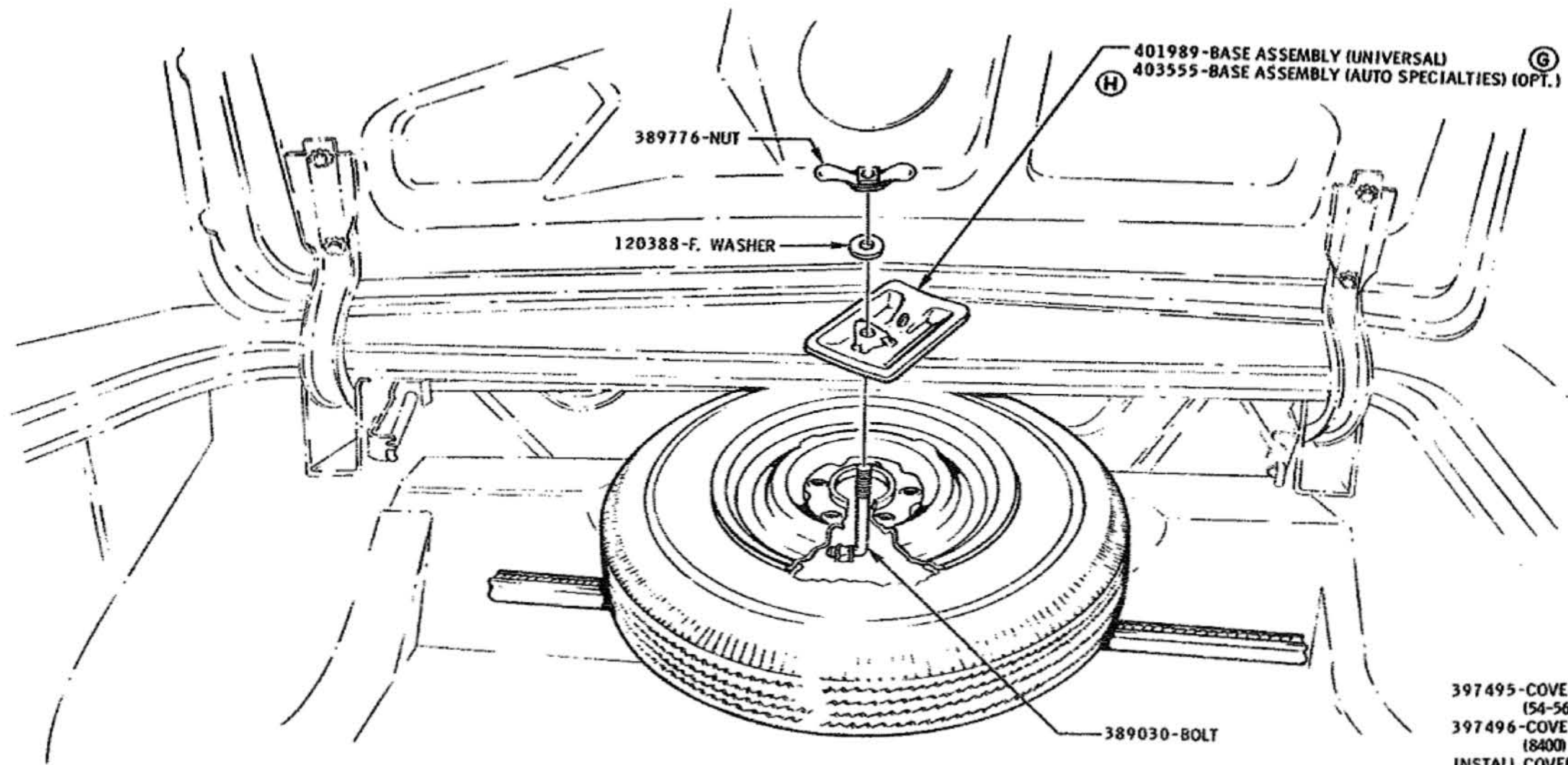


FIGURE 1

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					12-21-67	E	35 POS USAGE REMOVED	BPM													WRENCH, LIFT & COLUMN ASSY STOWAGE (EXCEPT CONVERTIBLES)				
					5-24-68	J	390682-301-ASM. CANCELLED	BPM		8-23-67	D	WAS 383490-COLUMN	BPM								DATE FEB. 24, 1967	FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 10	PAGE 115
					5-21-68	H	WAS 401830-COL ASM	BPM		7-21-67	C	TITLE REVISED	BPM								DR. BY S. PARKER				
					4-25-68	G	35Y15 USAGE REMOVED	BPM		6-28-67	B2	NOTES ADDED	BPM								CHECKED J. J. J.				
					3-20-68	F	WRENCH STOWAGE REV.	BPM		5-25-67	A	LIFT ASSY STOWAGE REV	BPM								APPR. Von [Signature]	REF. 14E	SERIES B-C	PART NO. 398163	



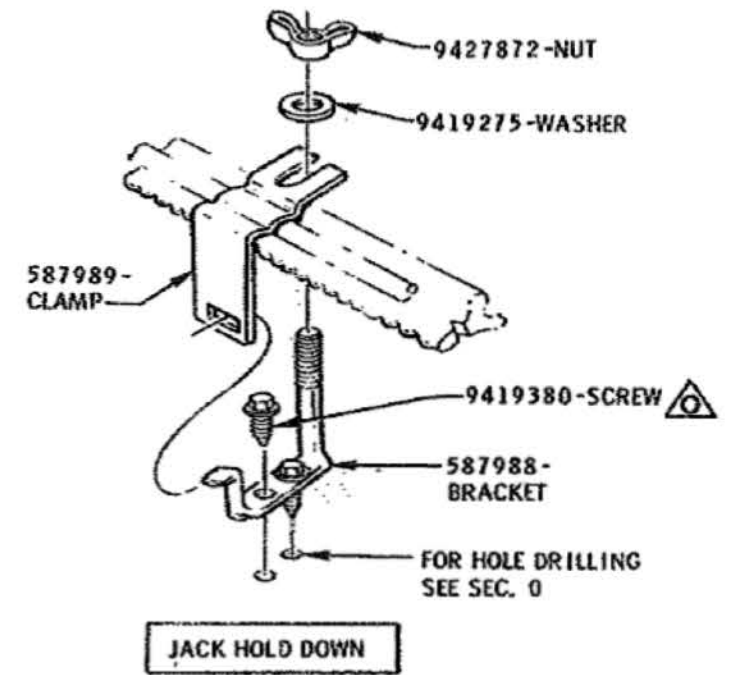
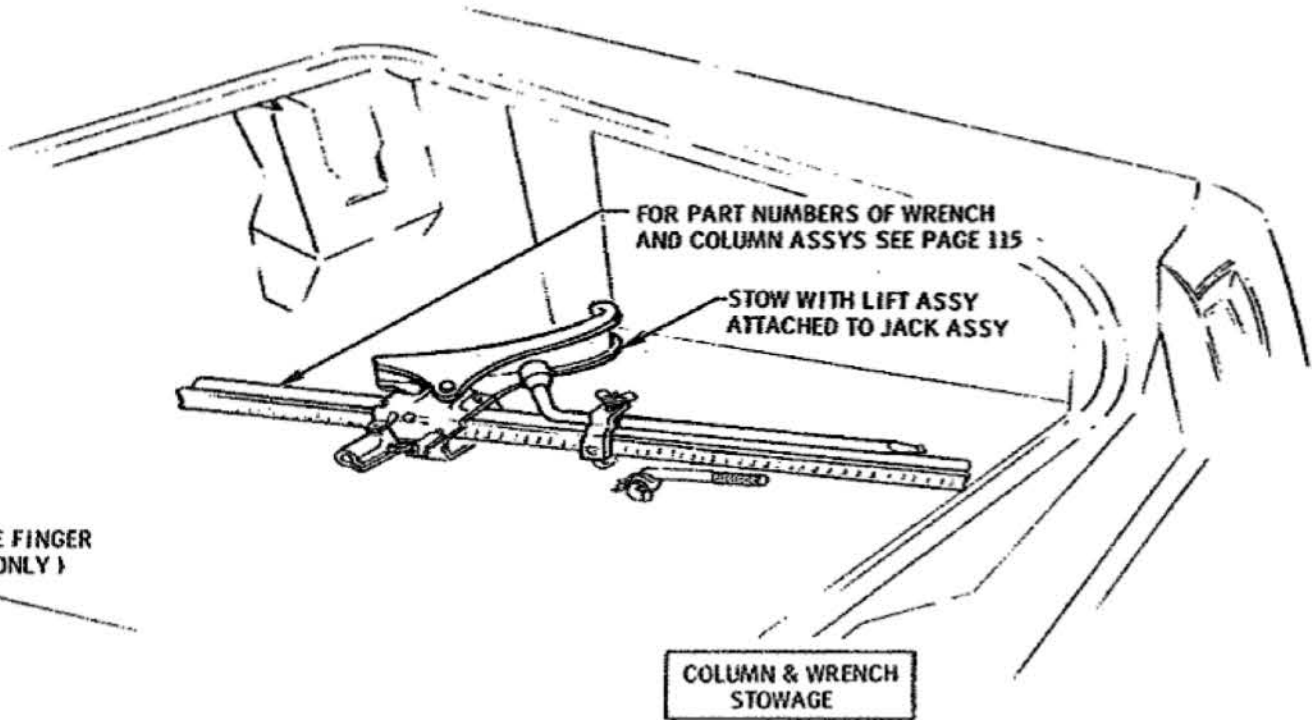
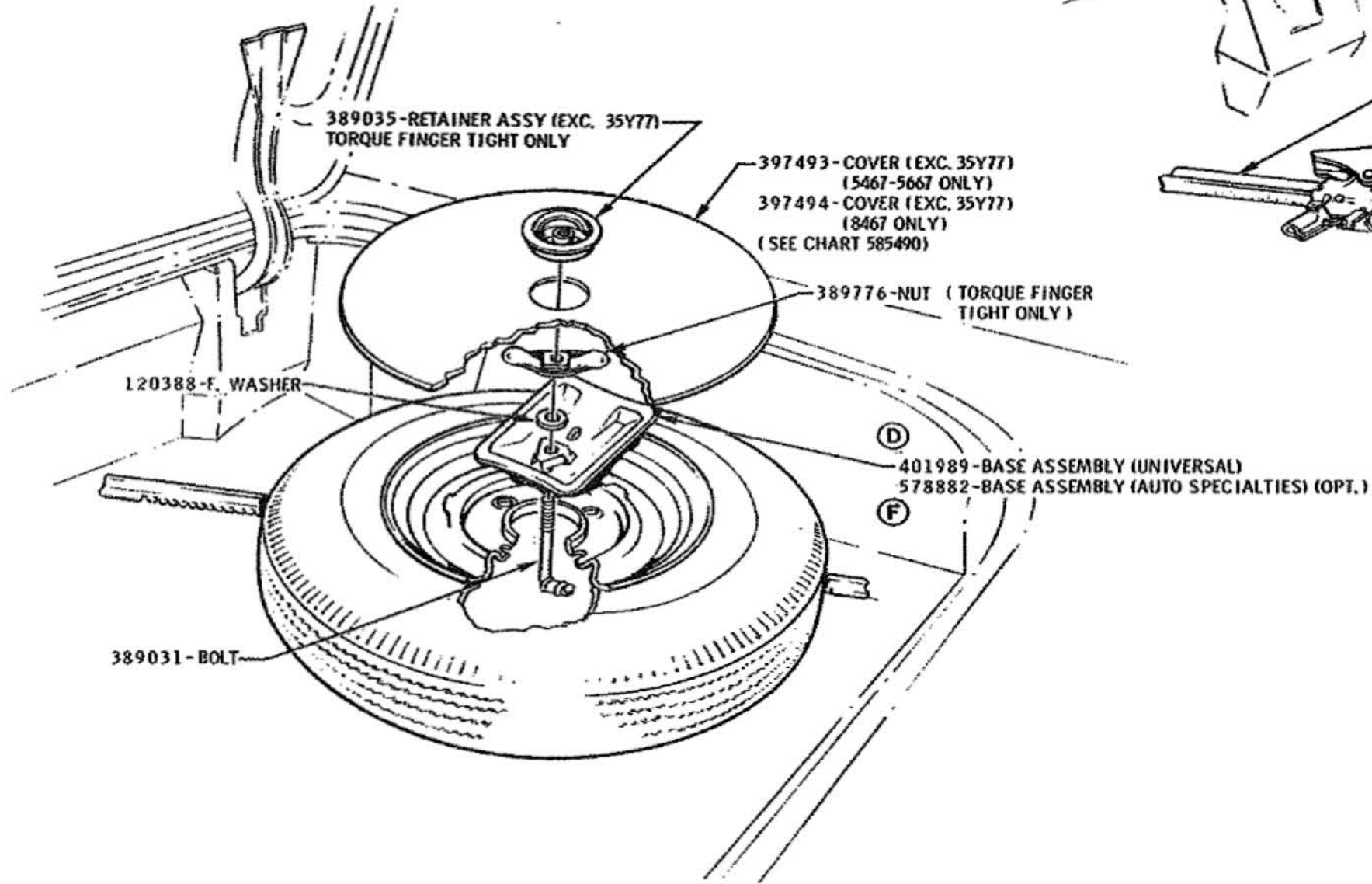
SPARE WHEEL HOLD DOWN

397495-COVER ASSY
(54-56-64-6600)
397496-COVER ASSY
(8400)
INSTALL COVER OVER TIRE
AFTER INSTALLING SPARE
WHEEL HOLD DOWN.
8600 - SPARE WHEEL COVER
TRIM ASSEMBLY IS FISHER
FURNISHED OLDS TO INSTALL.

F

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	
					9-19-67	E	WAS 588304-BASE ASSY	BP	MYB							SPARE WHEEL STOWAGE (EXCEPT CONVERTIBLE)	1968	10	116		
				7-21-67	D	TITLE REVISED	BP	MYB													
	5-24-68	H	390684-BASE ASSY CANCELLED	BP	MYB	6-28-67	C	NOTE ADDED	BP	MYB											
	3-7-68	G	WAS 578882-BASE ASSY	BP	MYB	6-28-67	B	BACKGROUND REVISED	BP	MYB											
	12-21-67	F	35 POS USAGE REMOVED	BP	MYB	5-26-67	A	WAS 389034 BOLT	BP	MYB											
																REF.	14E	SERIES	B-C	PART NO.	398163

397495-COVER ASSY-(EXC. 8400)
397496-COVER ASSY -18400 ONLY)
(SEE CHART 397492)
THESE PARTS REPLACE HARD COVER
AND RETAINER ASSY WITH 35Y77 USAGE

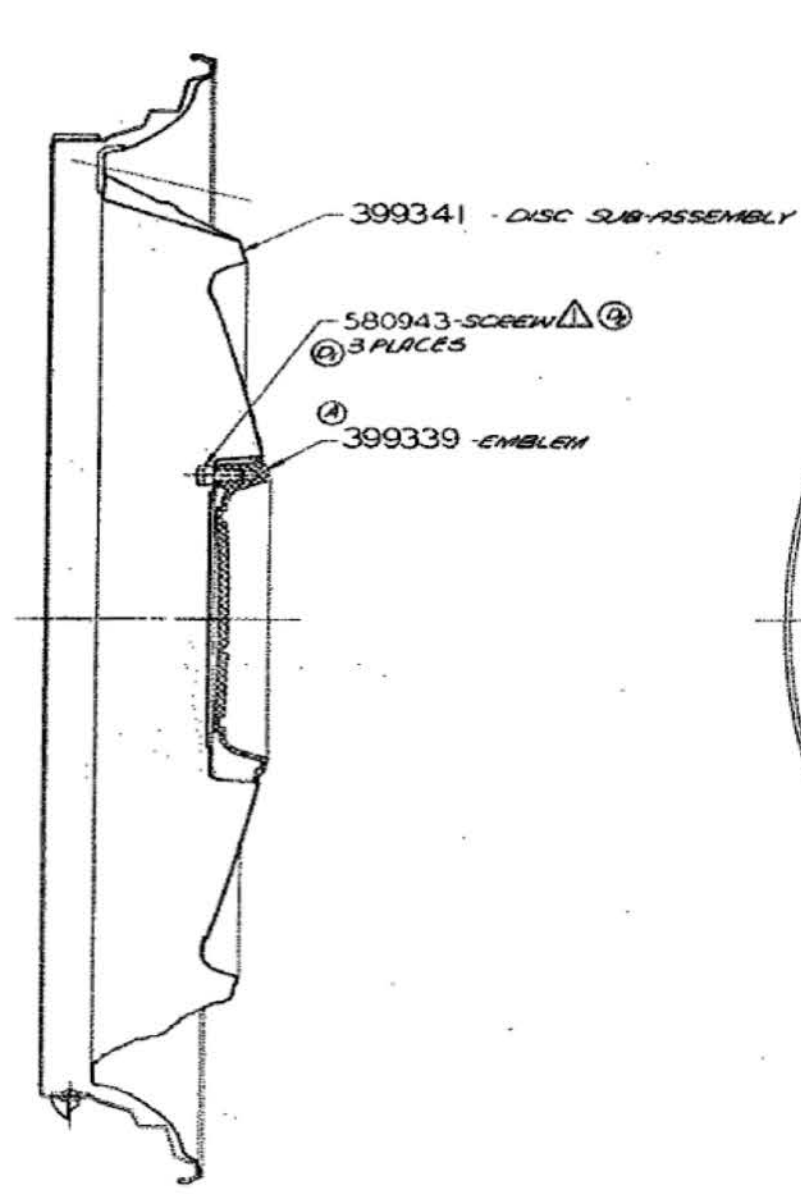


MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

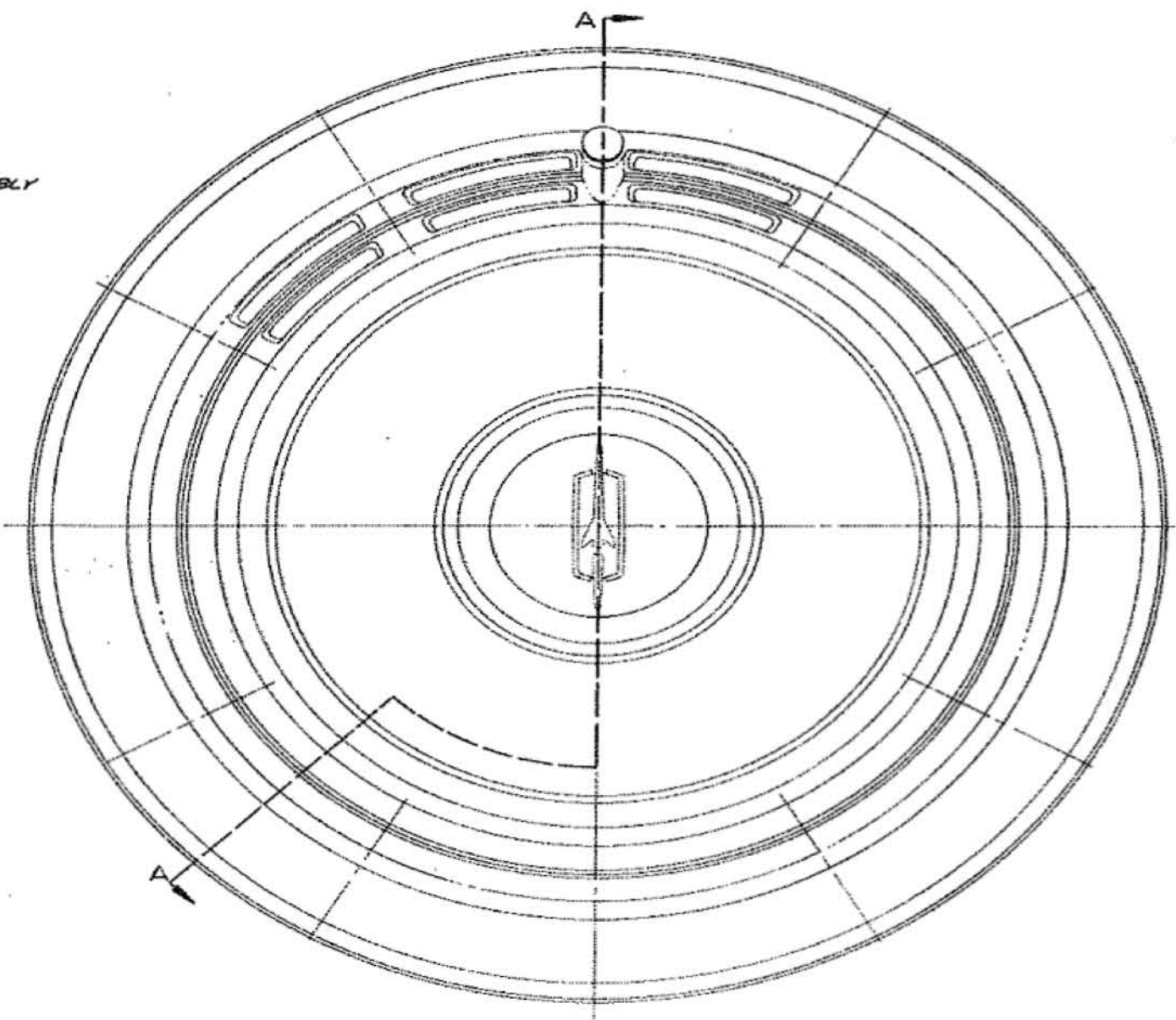
					12-21-67	E	35 POS USAGE REMOVED	BP/YS	TITLE CONVERTIBLE SPARE WHEEL STOWAGE					
					9-19-67	D	WAS 588304-BASE ASSY	BP/YS	DATE MAR 8 1967	FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 10	PAGE 117
					7-21-67	C	TITLE REVISED	BP/YS	DR BY B. PARKER					
					6-28-67	B	TORQUE NOTE ADDED	BP/YS	CHECKED JGA					
					5-24-68	F	390684-BASE ASM CANCELLED	BP/YS	APPR. V. J. L...	REF. 10E-HE	SERIES B-C	PART NO. 398163		
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION

OLDSMOBILE DIVISION
GENERAL MOTORS CORPORATION
LANSING, MICHIGAN

A-B 1.C WITH 35P02



SECTION A-A



⊗ Δ 30-40 LB IN

DATE	BY	REVISIONS	QUANTITY	IN	IN
11-7-66		WAS XD-83679			
11-11-66	A	REVISED TO DETAIL	GAK	LS	20
3-26-67	B	NO REEDED			
9-28-67	C	TORQUE SPEC ADDED			
10-9-67	D	NOTE 15TH RELOCATED			

NO.	399340
REVISION	
LAST CHANGE	A

TOLERANCES UNLESS OTHERWISE SPECIFIED & BE ALLOWED OR TWO PLACE DECIMALS & ARE ALLOWED ON THESE PLACES EXCEPT ON ALL CASTINGS AND POUNDINGS ALLOW FOR FINISH AS FOLLOWS: F₁-AS; F₂-IN; F₃-30; F₄-12 ETC.

COMMERCIAL TOLERANCES APPLY TO SHEET METAL GAUGES, TUBING, ROLLED DRAWN OR EXTRUDED SECTIONS & STANDARD PARTS.

DO NOT SCALE

DATE	OCT 26/1966	BY	W. OTIS
SCALE	FULL	BY	BEDFORD
YEAR	1966	APP.	J.R. Lammick
REFERENCE	YE-83562	APP.	
REVISION			

NAME: DISC ASSEMBLY - WHEEL

DATE: C

399340

SEC	PAGE
10-	120

A 1 BC

ENGINEER
DESIGNER
CHECKER

PRODUCTION SAMPLE TO BE TESTED AND APPROVED BY PRODUCT ENGINEERING FOR OLDSMOBILE PARTS

3012944-RECEIVER DEHYDRATOR ASSY

SEE FIG. 1 FOR
CONDENSER MOUNTING

3014914-CONDENSER ASSY

8526398-GASKET
"O" RING

3840341-CLAMP

3013495-NUT

9419727-SCREW

RECEIVER DEHYDRATOR
INSTALLATION

CONDENSER ASSY

397224-
INSULATOR ASSY

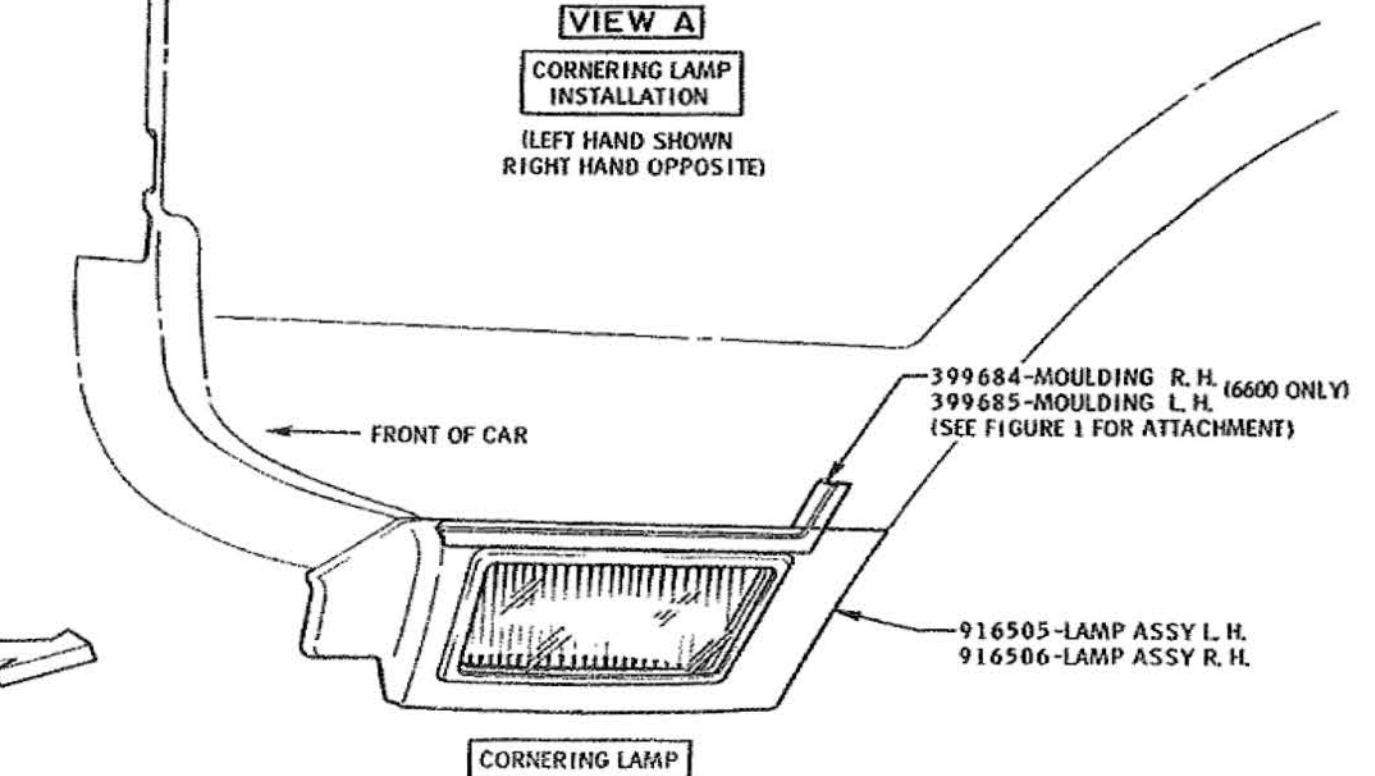
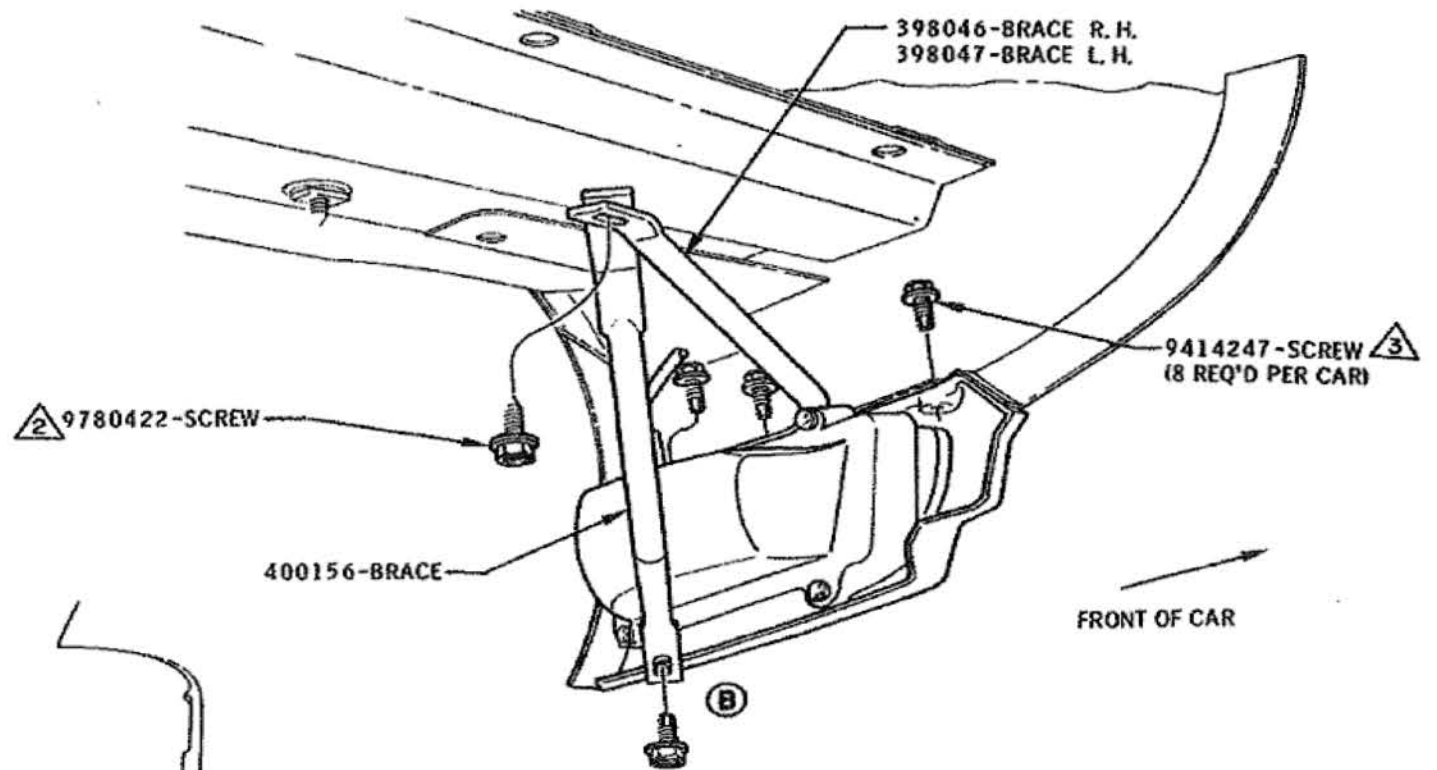
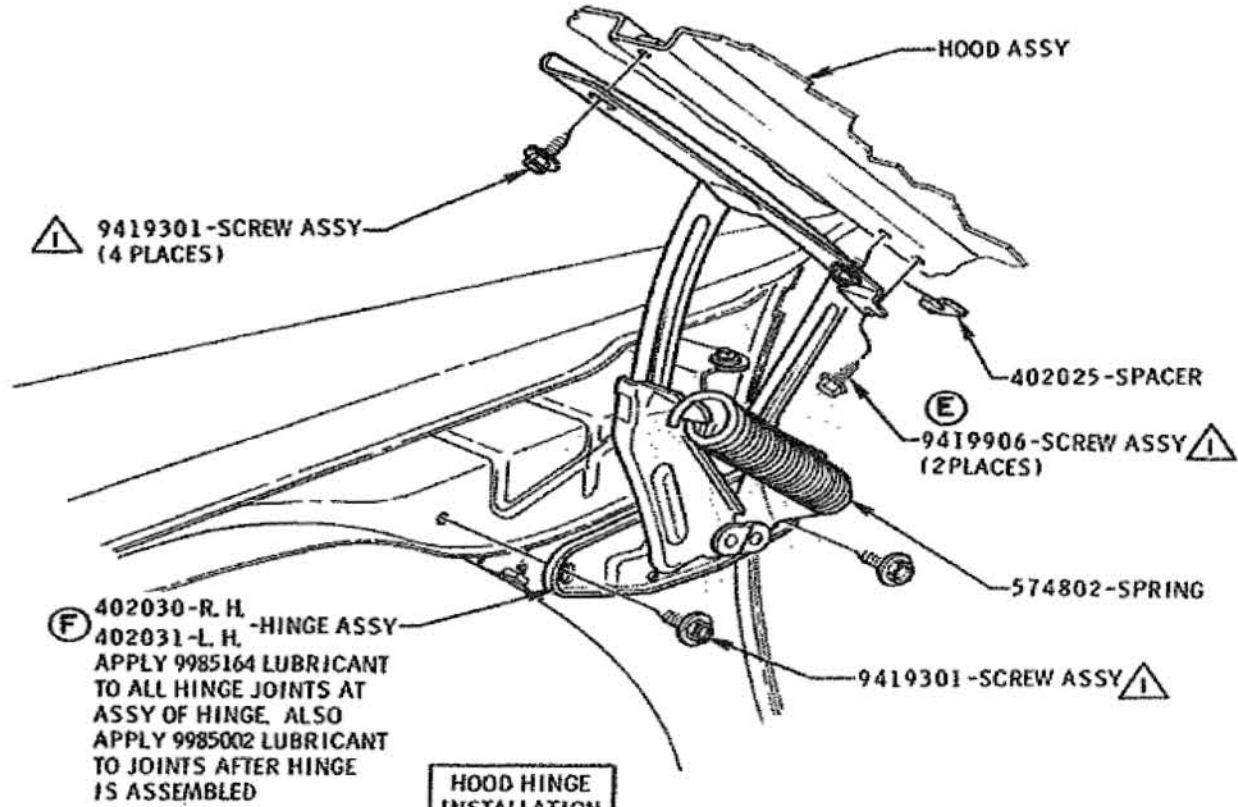
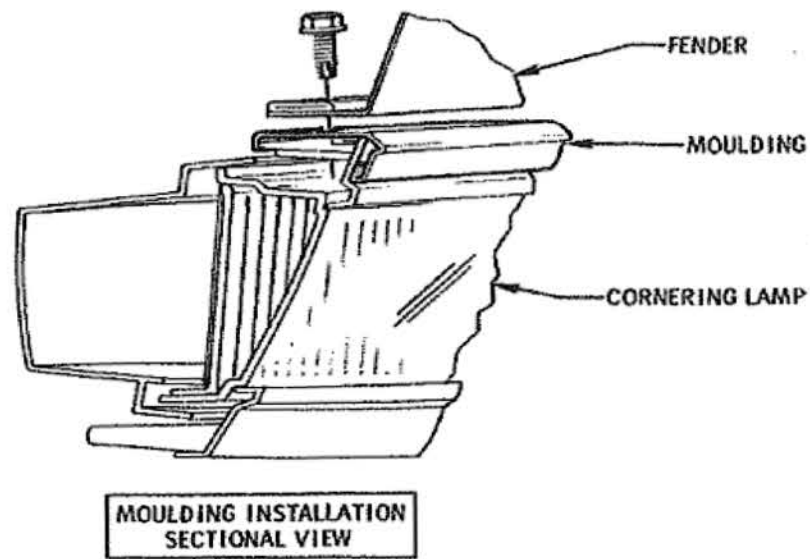
1359887-NUT

397224-
INSULATOR ASSY

FIGURE 1

2 11 - 15 LB. FT.
1 25 - 35 LB. IN.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
6-19-68	D	TORQUE REVISED														A/C CONDENSER & RECEIVER DEHYDRATOR	1968		11	111
7-11-67	C	TORQUE ADDED																		
6-19-67	B	WAS 9420065-SCREW																		
3-29-67	A	8526398 GASKET ADDED																		
																	REF. 35C60, 61	SERIES B-C	PART NO. 398163	



- ③ 35 - 45 LB. IN.
- ② 15 - 22 LB. FT.
- ① 20 - 30 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.					
					10-9-67	E	FASTENING ADDED																																															
					7-10-67	D	TORQUES ADDED																																															
					6-27-67	C	LUBE NOTE REVISED																																															
					6-28-67	B	BRACE REPOSITIONED																																															
					5-29-67	A	LUBE NOTE ADDED																																															
					10-9-67	F	WAS 400032-3 HINGE ASSY																																															

TITLE			HOOD HINGE & CORNERING LAMP	
DATE	FEB. 5, 1967	FIRST USED	1968	
DR. BY	G. C. HIMEBAUGH	OLDSMOBILE PRODUCT	INFORMATION MANUAL	MANUAL SECTION
CHECKED	J. H. HARRIS			11
APPR.	J. HARRIS	REF.	11 D, T 87	PAGE
		SERIES	B-C	134
		PART NO.	398163	

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.
⚠ 15-22 LB. FT.

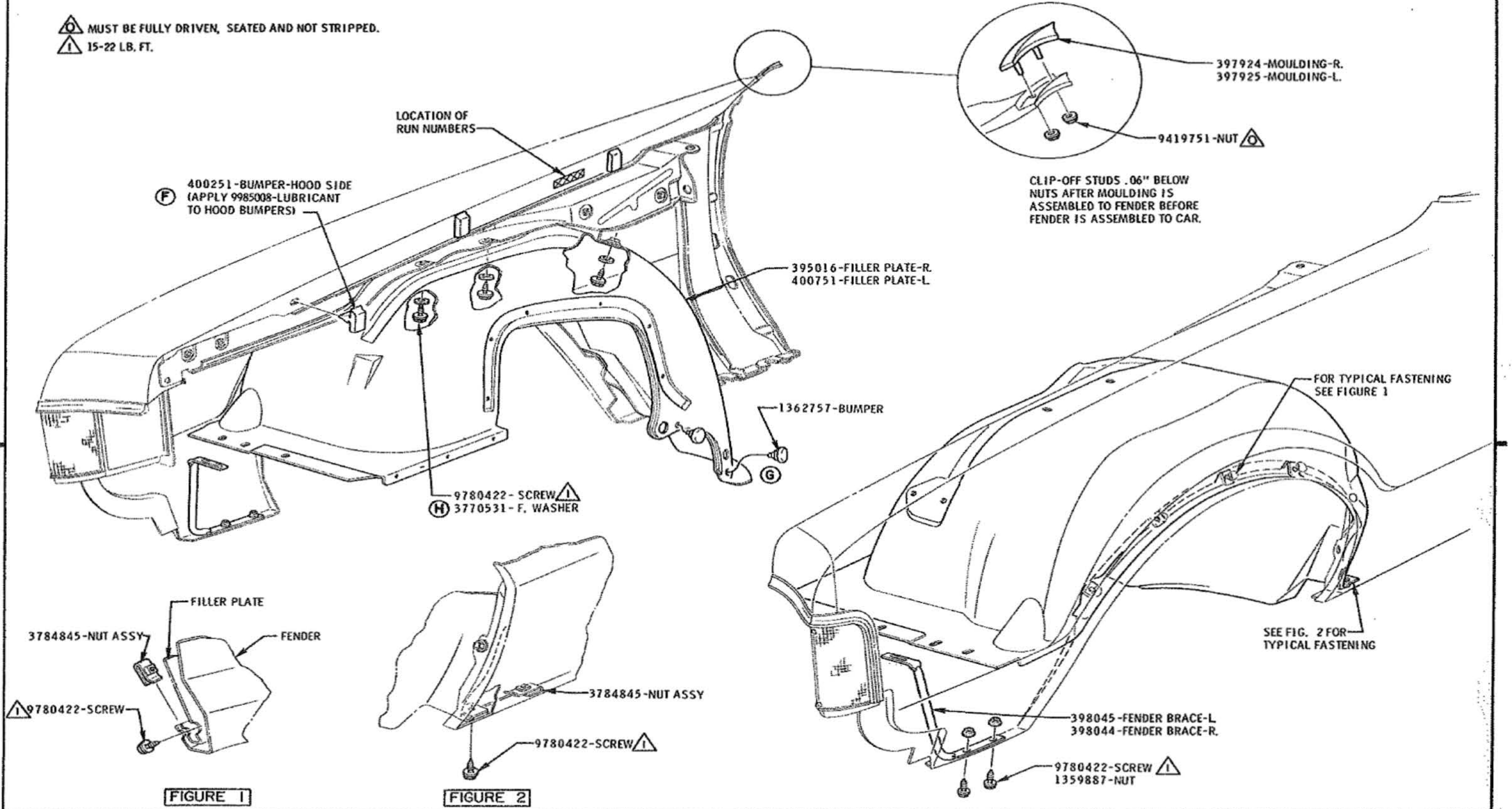
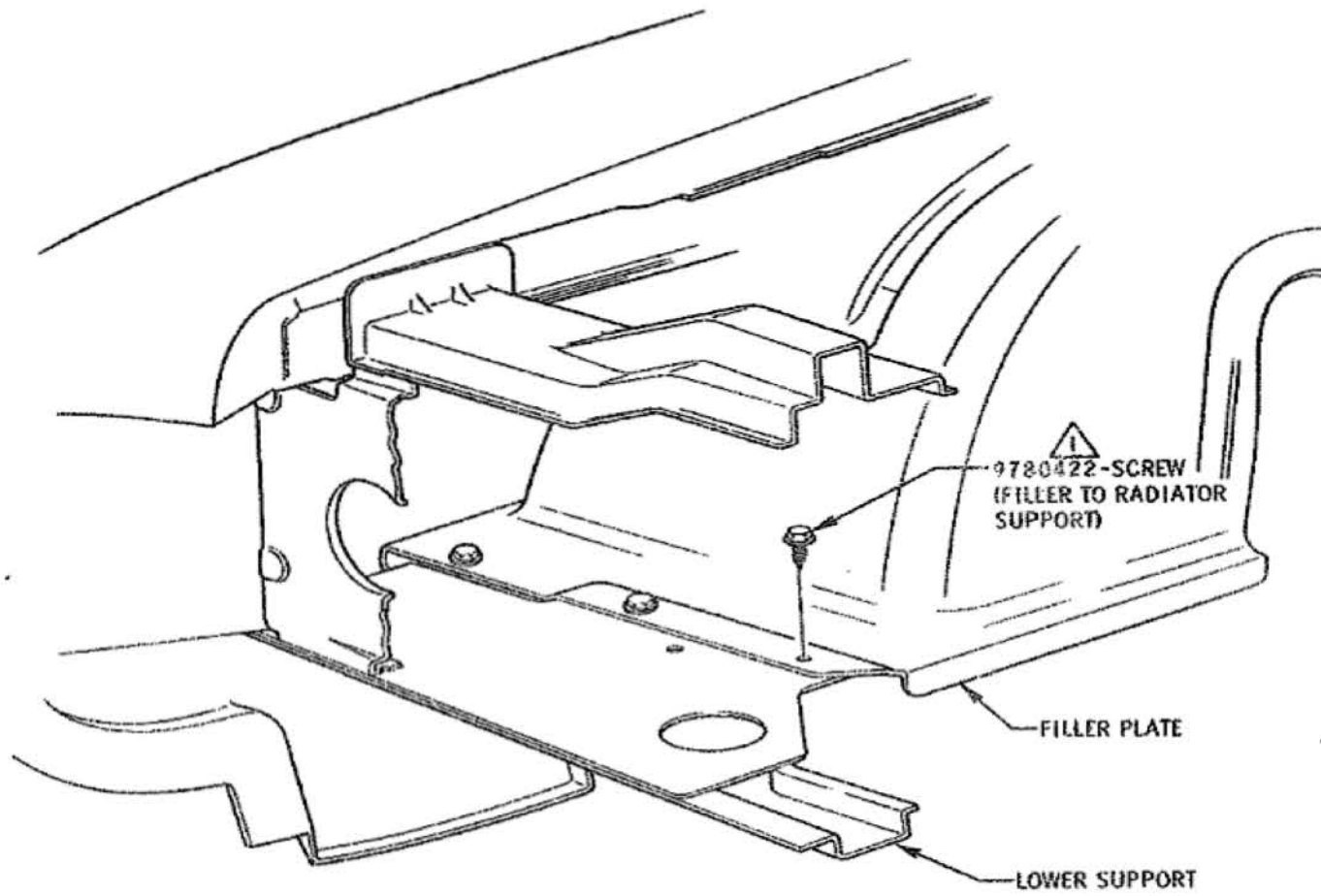


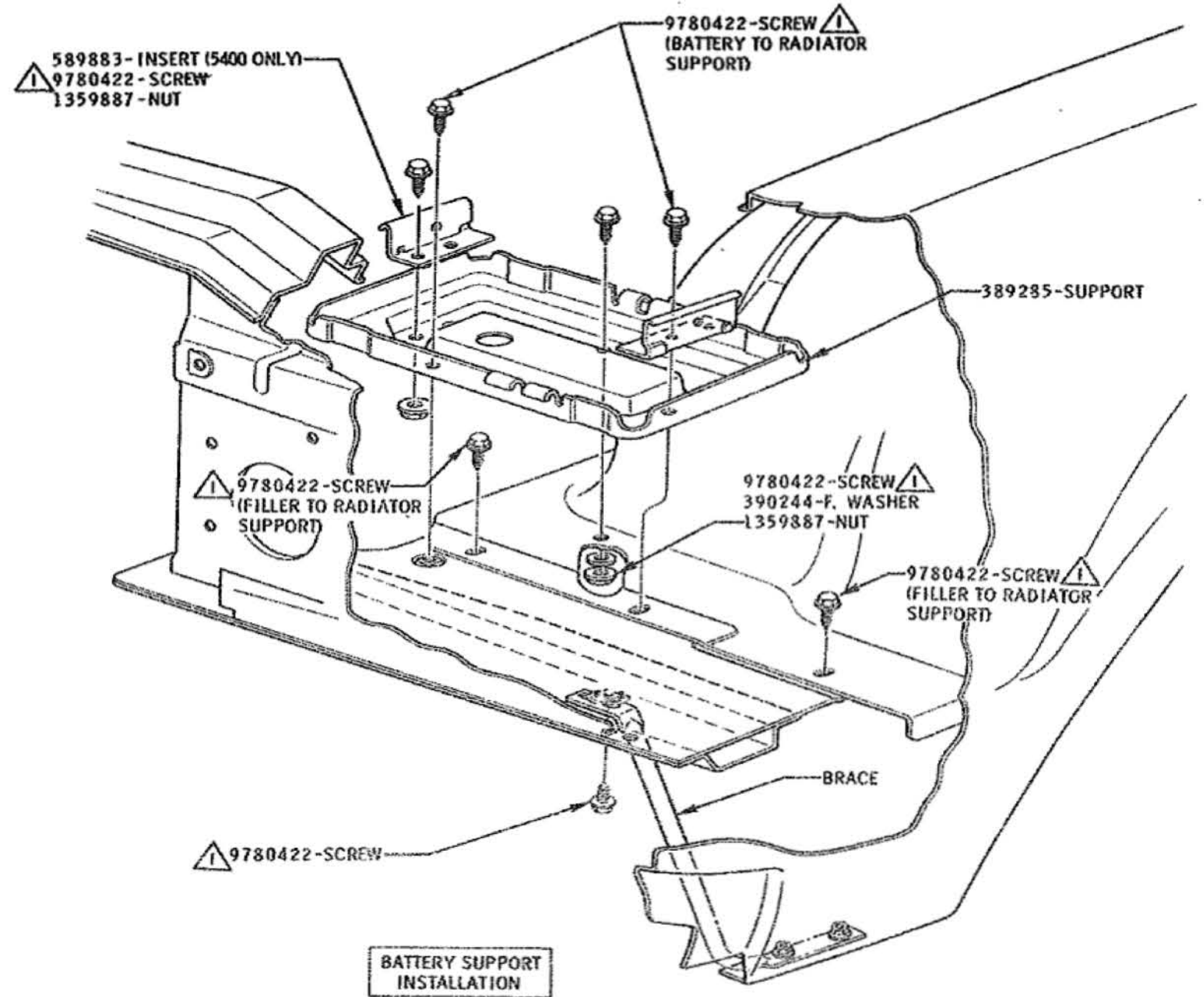
FIGURE 1

FIGURE 2

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-19-67	E	NOTE ADDED	J13	DT							FILLER PLATE TO FENDER				
					7-7-67	D	TORQUE NOTE ADDED	J13	BP											
		3-12-68	H		3-4-67		WAS 390244-WASHER	VA	DT							DATE JAN. 20, 1967	1968		11	135
		1-26-68	G		2-14-67		BUMPERS RELOCATED	VA	DT							DR. BY D. C. HINEBAUGH				
		10-2-67	F		2-14-67		WAS 941975-NUT	VA	DT							CHECKED				
					2-14-67		WAS 395940 BUMPER	VA	DT							APPR. J. H. HARRIS				
																REF. 11				
																SERIES B-C				
																PART NO. 398163				




LOWER RADIATOR SUPPORT TO FILLER PLATE INSTALLATION

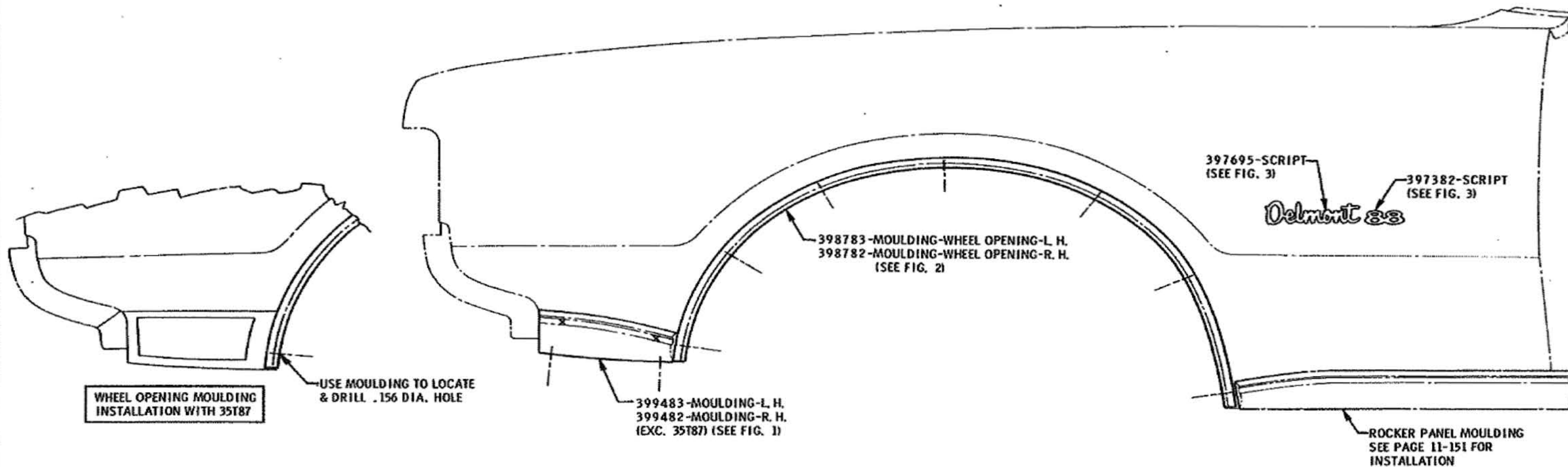


BATTERY SUPPORT INSTALLATION

⚠ 15 - 22 LB. FT.

										TITLE BATTERY SUPPORT & FILLER PLATE TO LOWER SUPPORT			
					DATE	JAN. 29, 1967		FIRST USED	1968		OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE
					DR. BY	D. C. HUBBARD				INFORMATION MANUAL	11	141	
					CHECKED	John				REF. 11E, 12B	SERIES	PART NO.	
					7-7-67	A TORQUE ADDED		B. B. F.			B-C	398163	
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISOR	DR. CK.	APPR.	

 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.



WHEEL OPENING MOULDING INSTALLATION WITH 35T87

USE MOULDING TO LOCATE & DRILL .156 DIA. HOLE

399483-MOULDING-L. H.
399482-MOULDING-R. H.
(EXC. 35T87) (SEE FIG. 1)

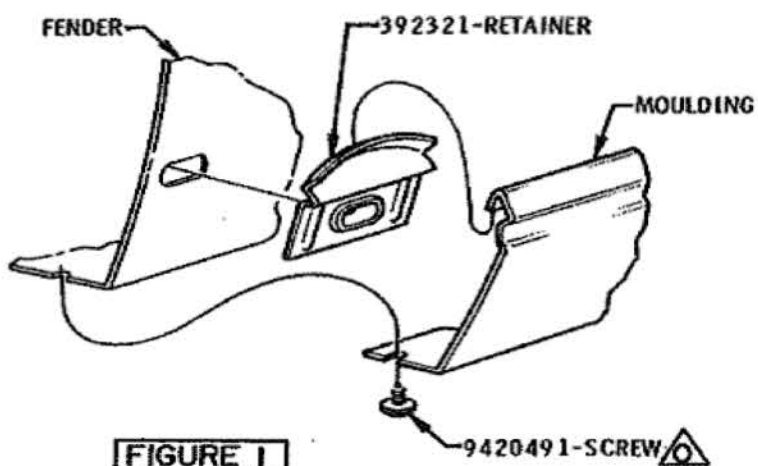


FIGURE 1

TYPICAL SIDE FRONT MOULDING INSTALLATION

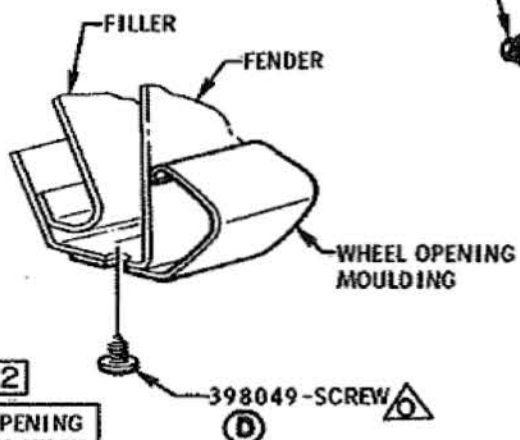


FIGURE 2

TYPICAL WHEEL OPENING MOULDING INSTALLATION

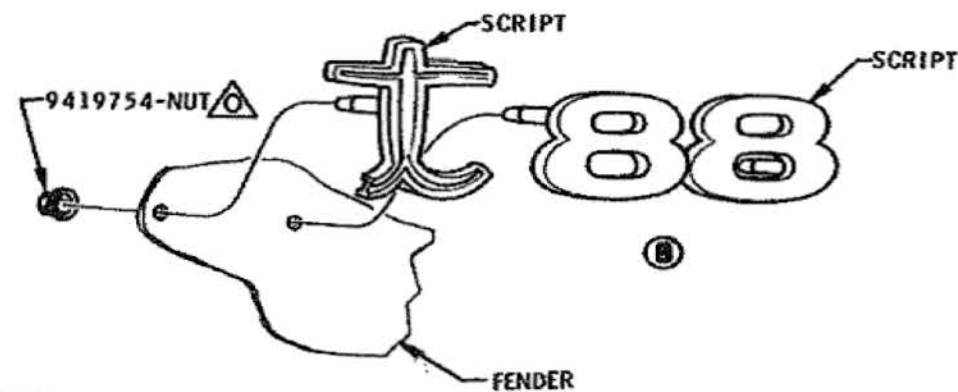


FIGURE 3

TYPICAL SCRIPT INSTALLATION

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
				9-13-67	D	WAS 588346 SCREW	DT					EXTERIOR MOULDINGS AND ORNAMENTATION	1968		11	150
				7-6-67	C	TORQUE NOTE ADDED	DT					DATE FEB. 13, 1967				
				3-11-67	B	FIGURE 3 REVISED	DT					DR. BY D. C. HINEBAUGH				
				3-11-67	A	398903 EMBLEM REMOVED	DT					CHECKED <i>[Signature]</i>	REF 1A2E, 11G	SERIES B-C	PART NO. 398163	

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

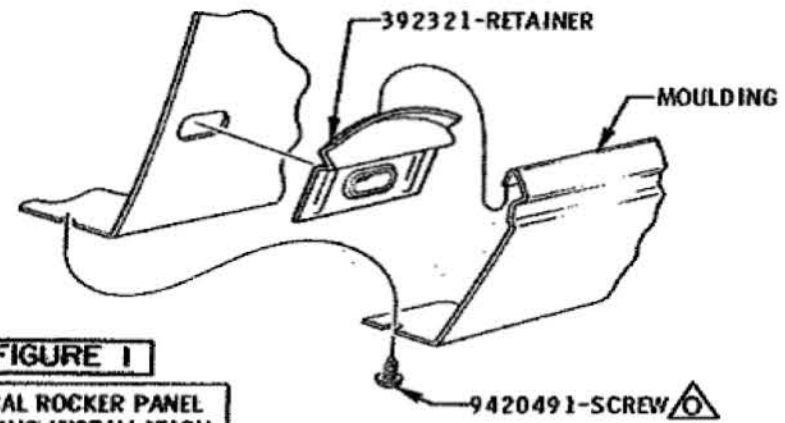
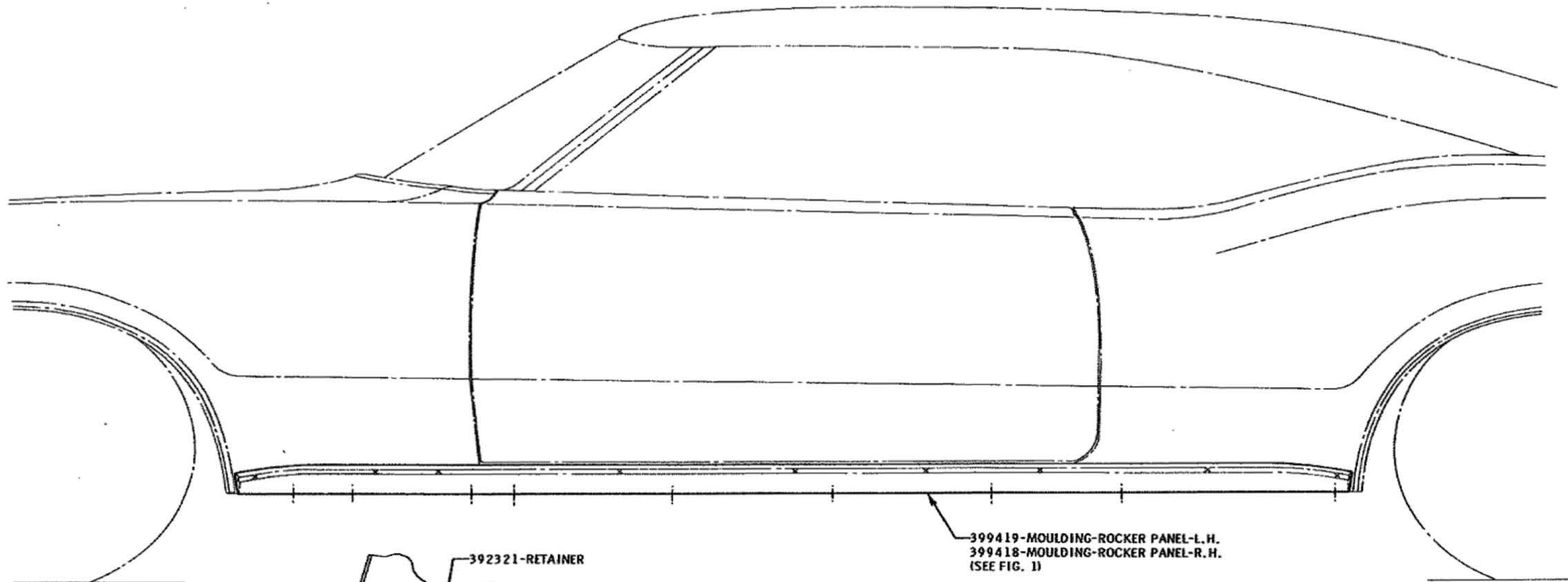


FIGURE 1
TYPICAL ROCKER PANEL
MOULDING INSTALLATION

54-5600

TITLE												EXTERIOR MOULDINGS AND ORNAMENTATION				
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
													1968		11	151
													REF. 1A2F	SERIES	PART NO.	
														B-C	398163	

8-18-67 B REDRAWN NO CHANGE
6-23-67 A TORQUE NOTE ADDED

DR. BY GOODWIN
CHECKED JIM
APPR. [Signature]

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

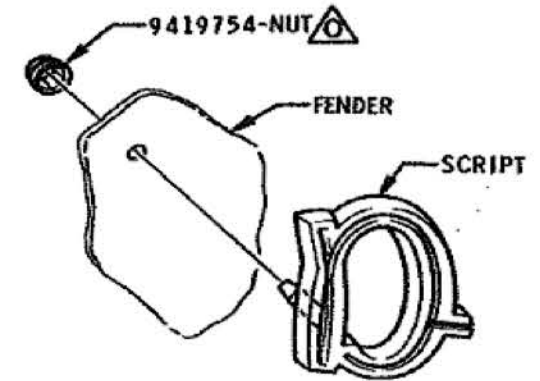
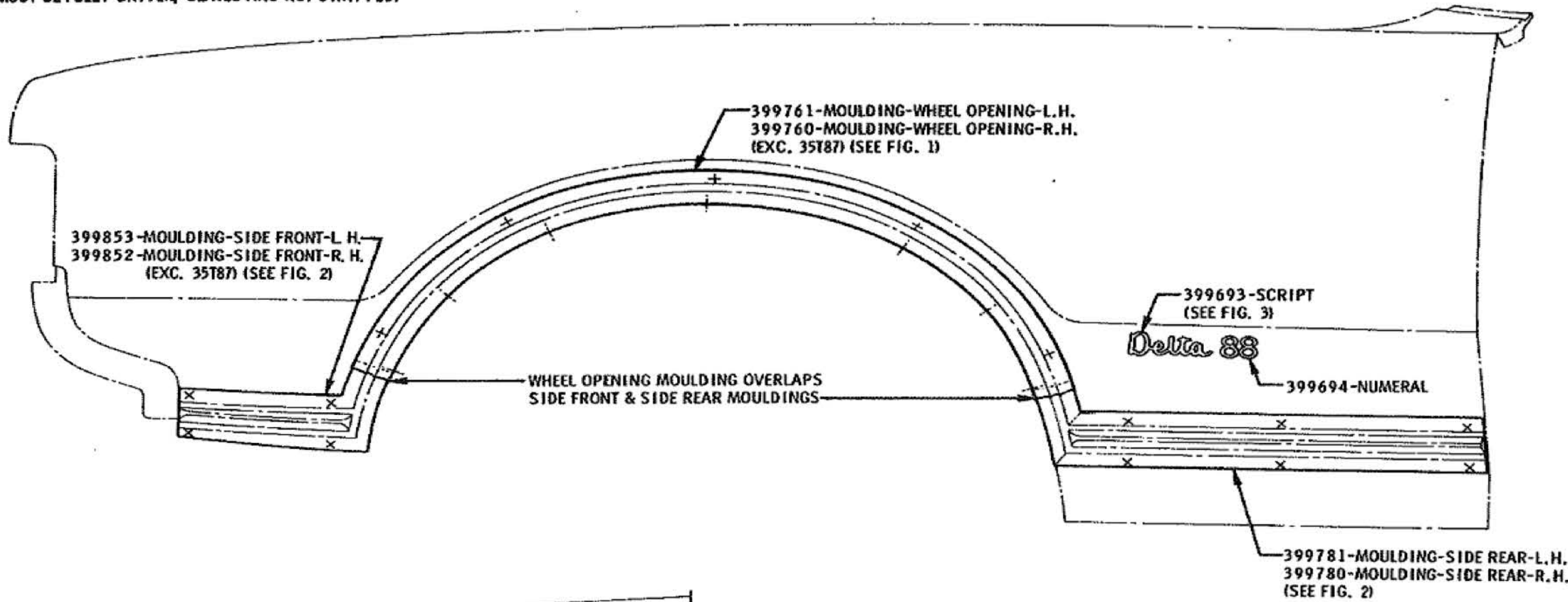
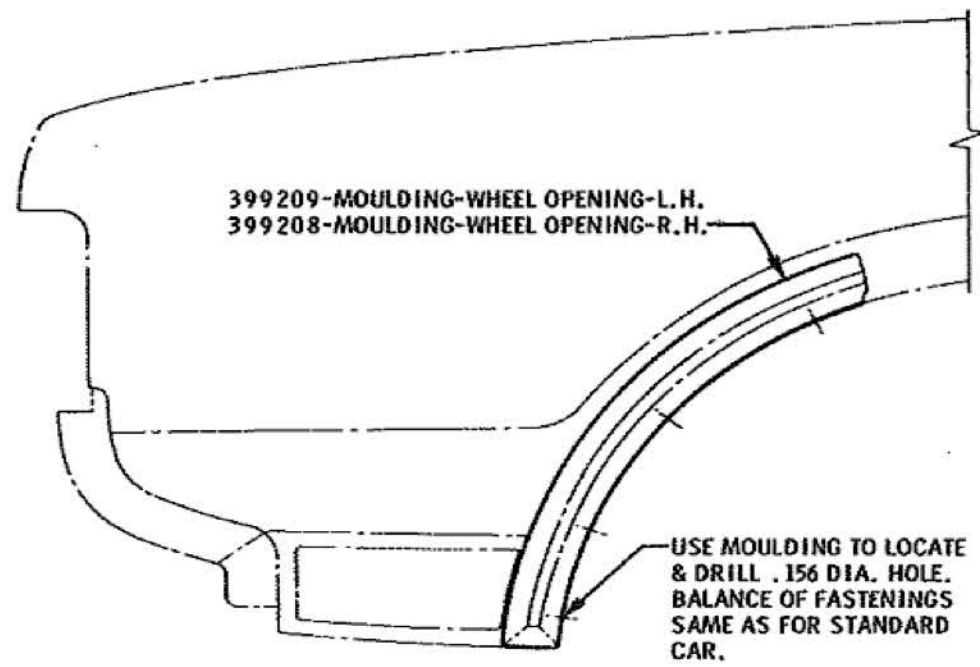


FIGURE 3
TYPICAL SCRIPT OR NUMERAL INSTALLATION



MOULDING INSTALLATION WITH 35T87

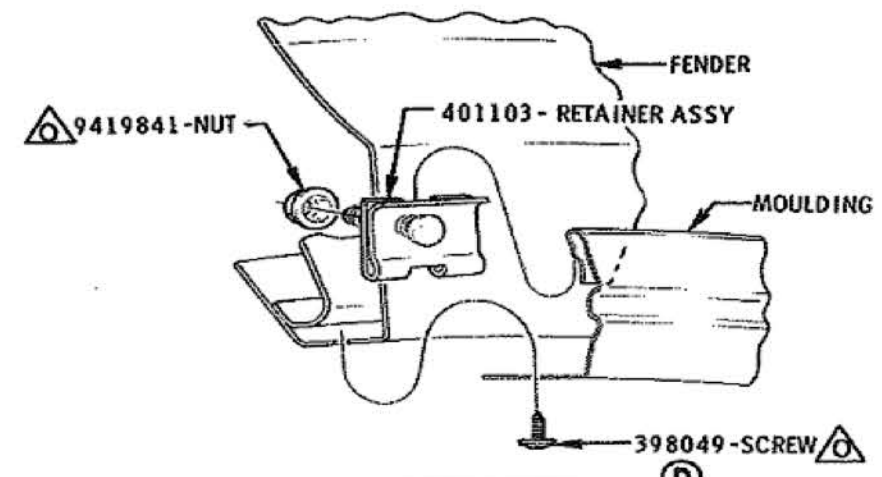


FIGURE 1
TYPICAL WHEEL OPENING MOULDING INSTALLATION

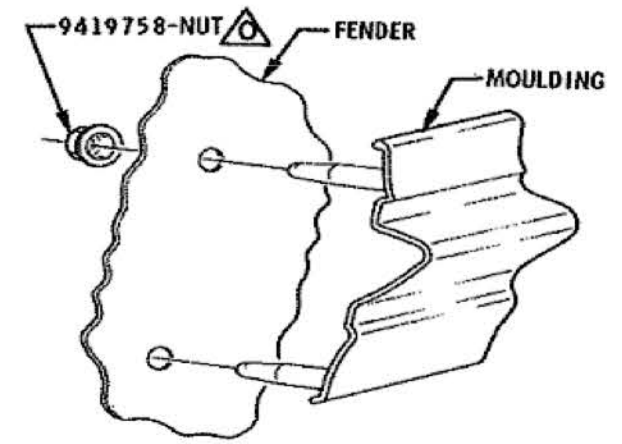


FIGURE 2
TYPICAL SIDE FRONT & SIDE REAR MOULDING INSTALLATION

REVISION										TITLE				EXTERIOR MOULDINGS AND ORNAMENTATION					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-13-67	D	WAS 588EAG SCREW			FEB. 13, 1967						1968		11	152
					8-18-67	C	BEDRAWN NO CHANGE												
					7-7-67	B	TORQUE NOTE ADDED												
					4-21-67	A	Was 398237 RETAINER ASSY												
																REF. 11G, 35T87	SERIES B-C	PART NO. 398163	

⊠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

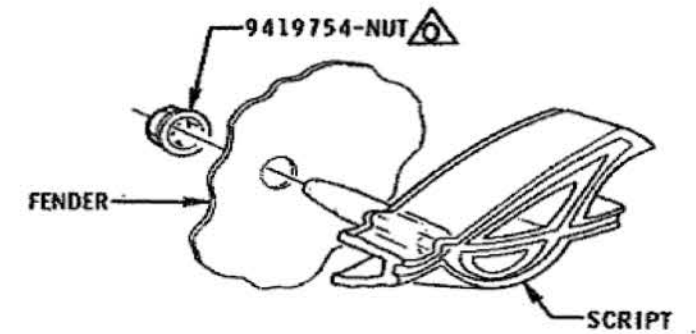
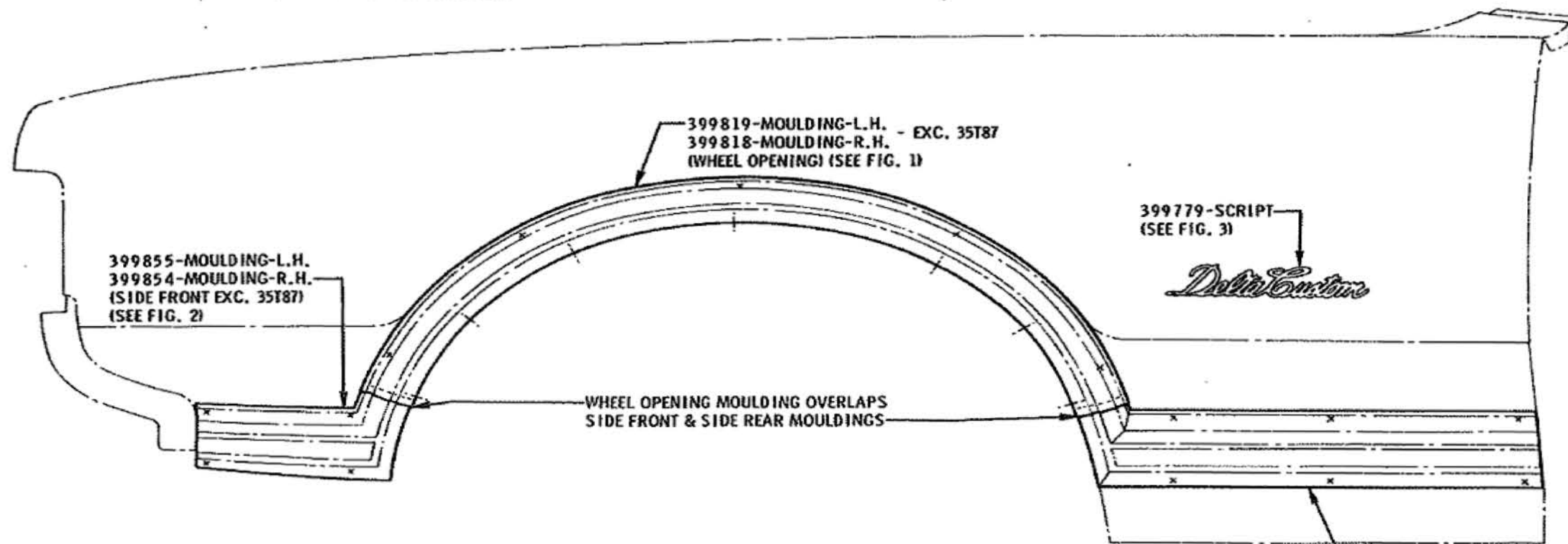
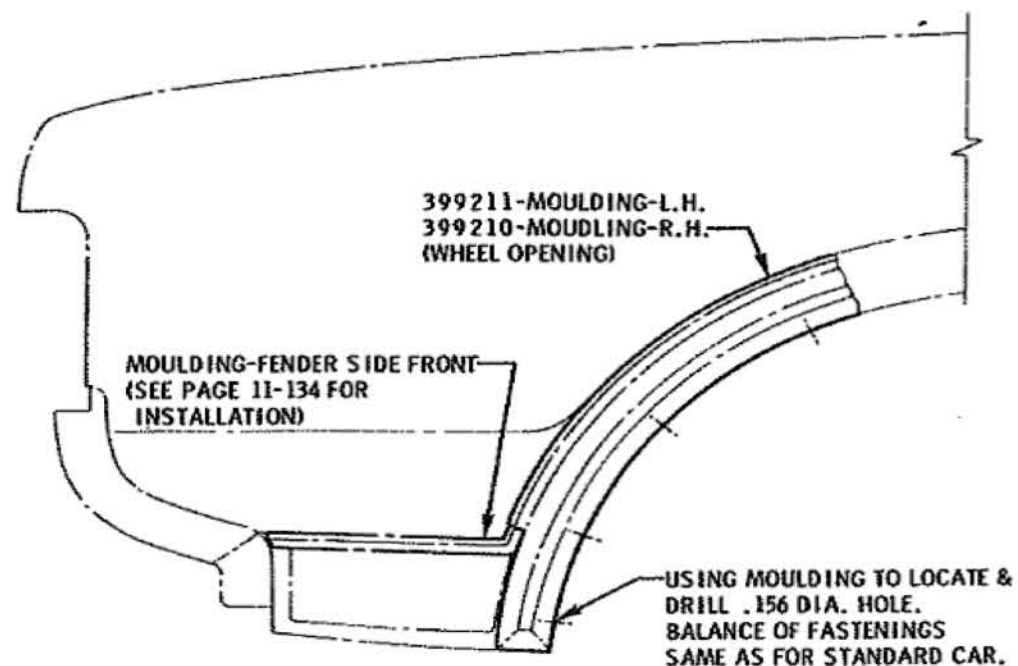


FIGURE 3
TYPICAL SCRIPT
INSTALLATION



**MOULding INSTALLATION
WITH 35T87**

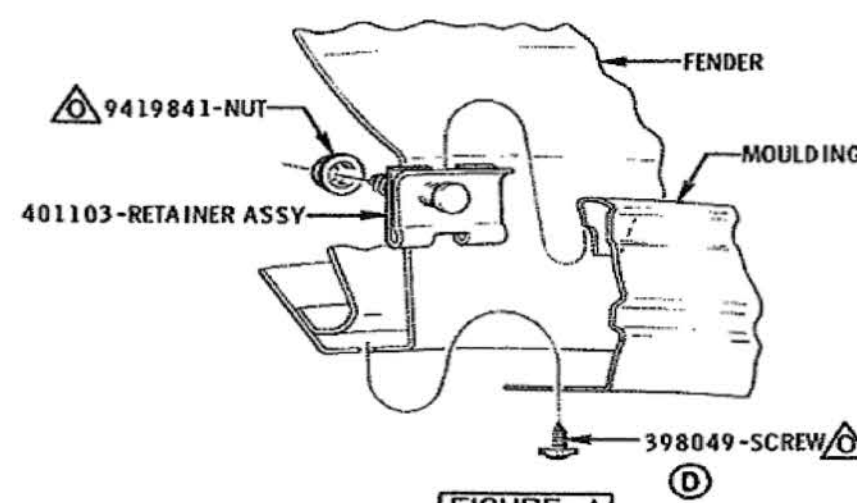


FIGURE 1
TYPICAL WHEEL OPENING
MOULding INSTALLATION

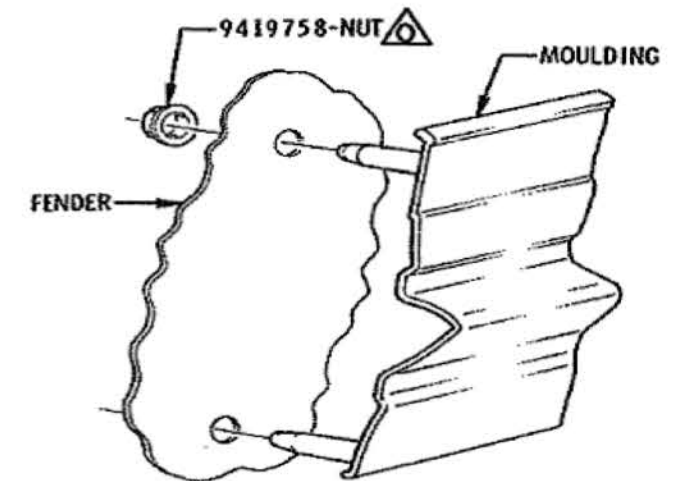
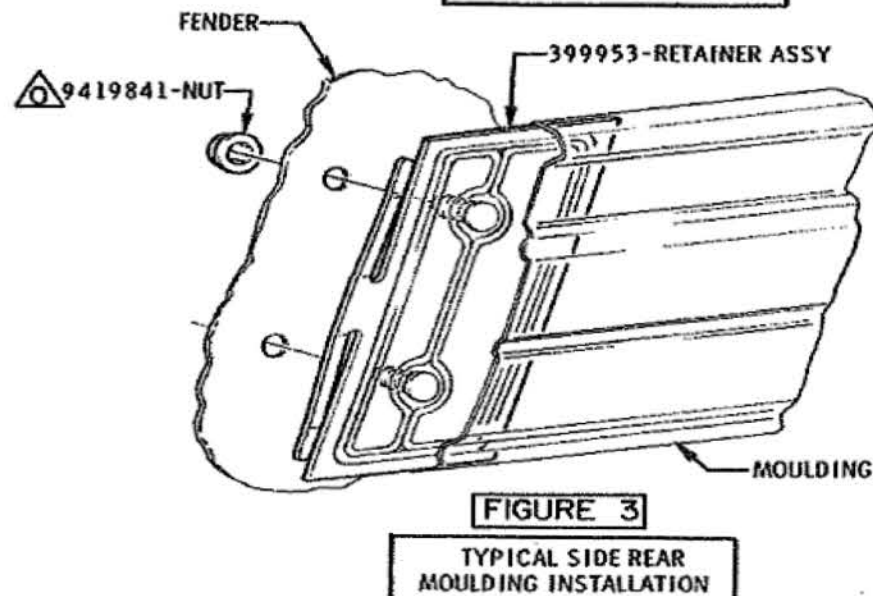
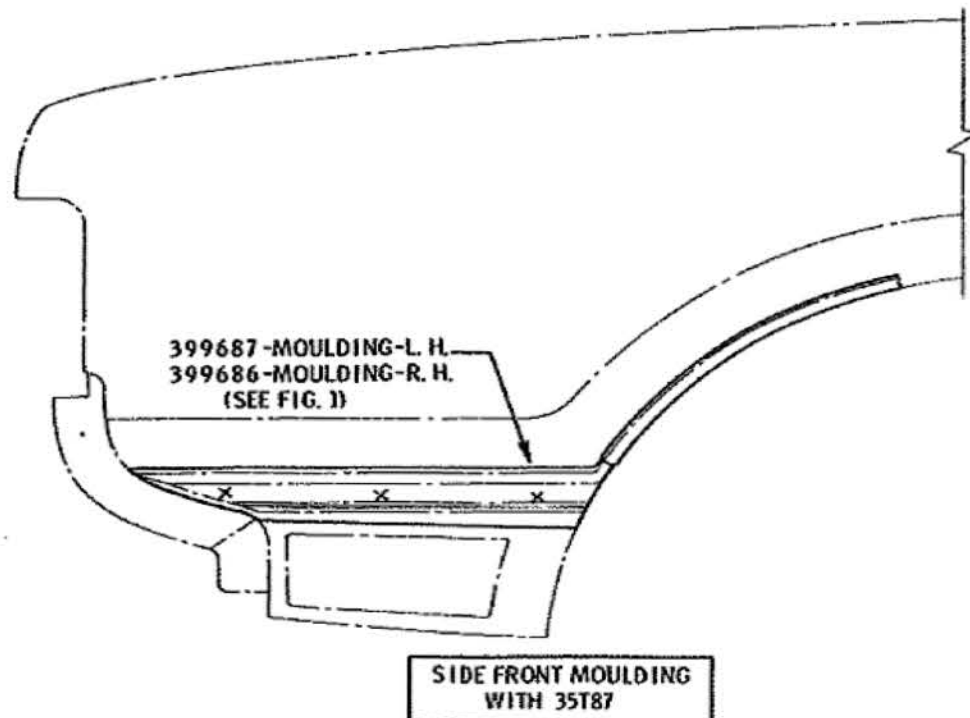
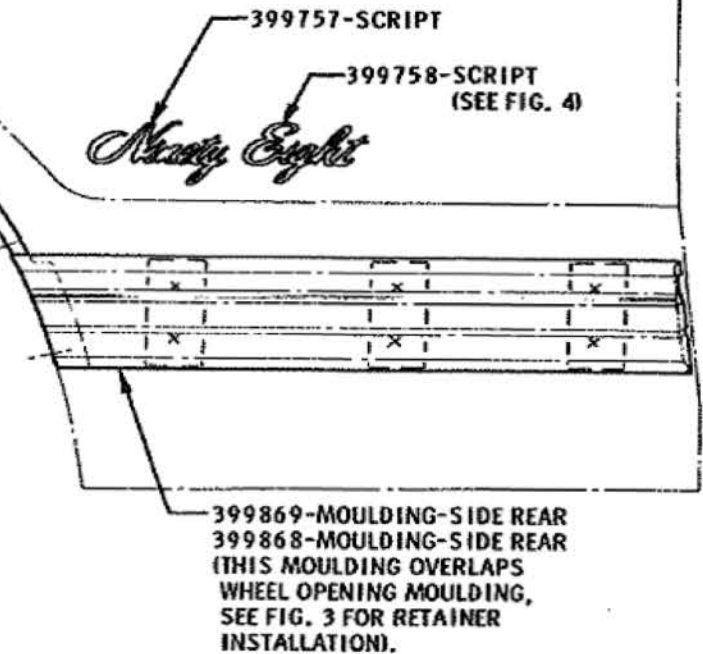
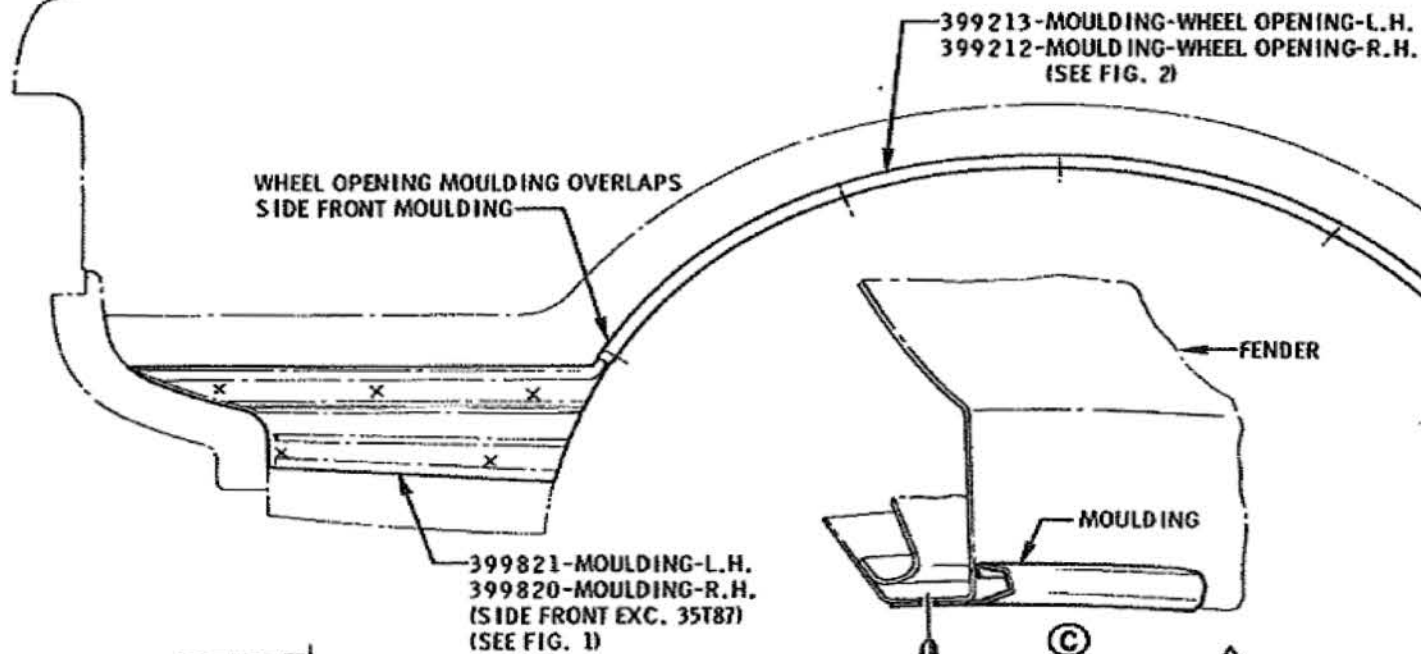
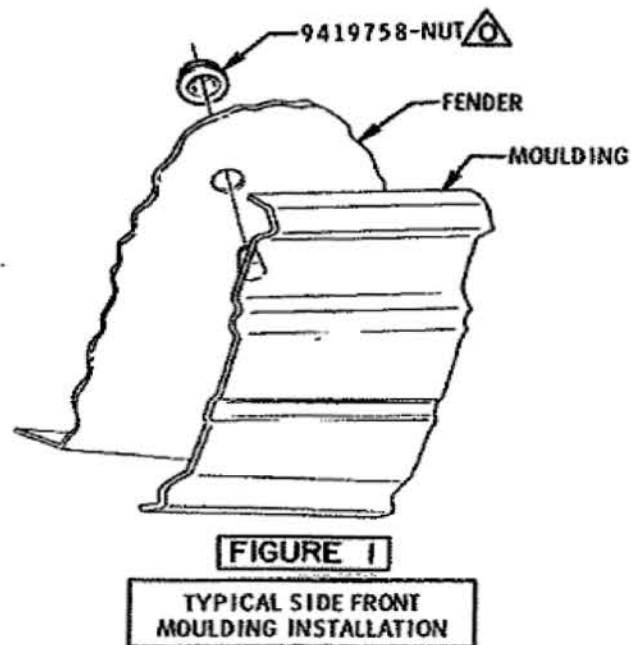


FIGURE 2
TYPICAL SIDE FRONT & SIDE
REAR MOULding INSTALLATION

6600


DATE		SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	EXTERIOR MOULDINGS AND ORNAMENTATION	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
									9-13-67	D	WAS 528546 SCREW							DATE FEB. 13 1967	1968		11	153		
									8-18-67	C	REDRAW - NO CHANGE							DR. BY D. C. THIM						
									7-7-67	B	TORQUE NOTE ADDED							CHECKED						
									4-21-67	A	WAS 398237 RETAINER ASSY							APP. J. Turner	REF. 116, 95T87		B-C		398163	

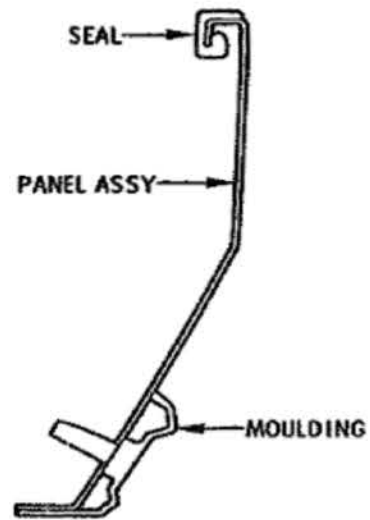


⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

84-8600

TITLE														EXTERIOR MOULDINGS AND ORNAMENTATION					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					3-13-67	C	WAS 528546 SCREW									1968		11	154
					8-21-67	B	REDRAWN-NO CHANGE												
					7-7-67	A	TORQUE NOTE ADDED												
																REF. 11G, 35T87	SERIES B-C	PART NO. 398163	

 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.



SECTION A-A

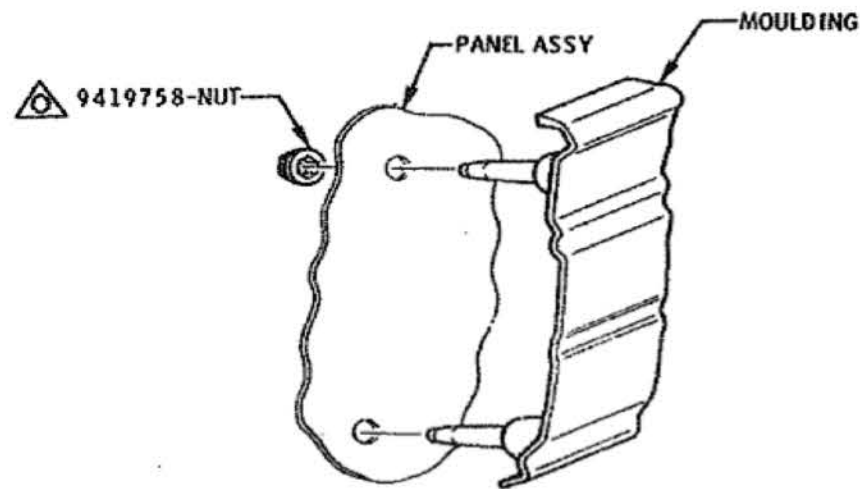
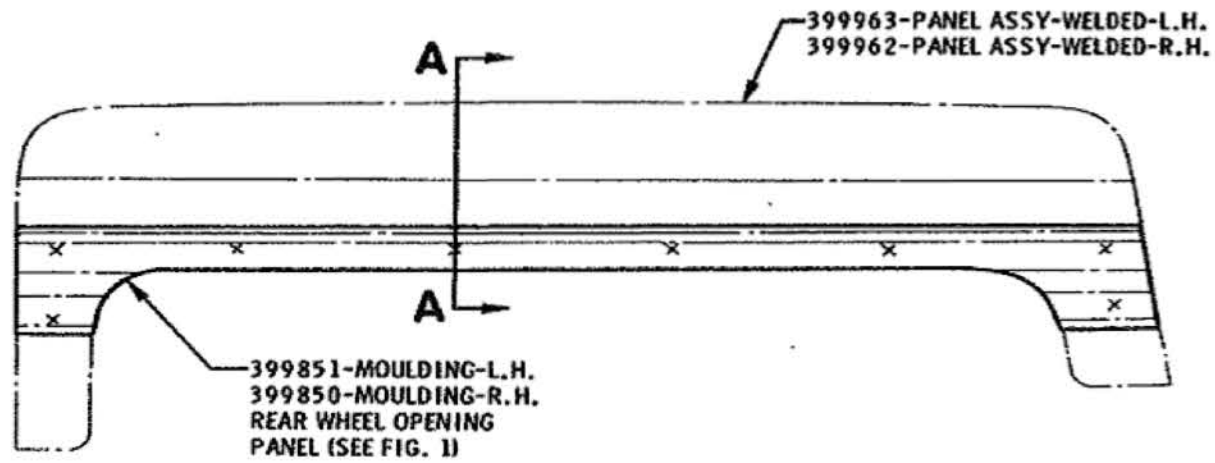
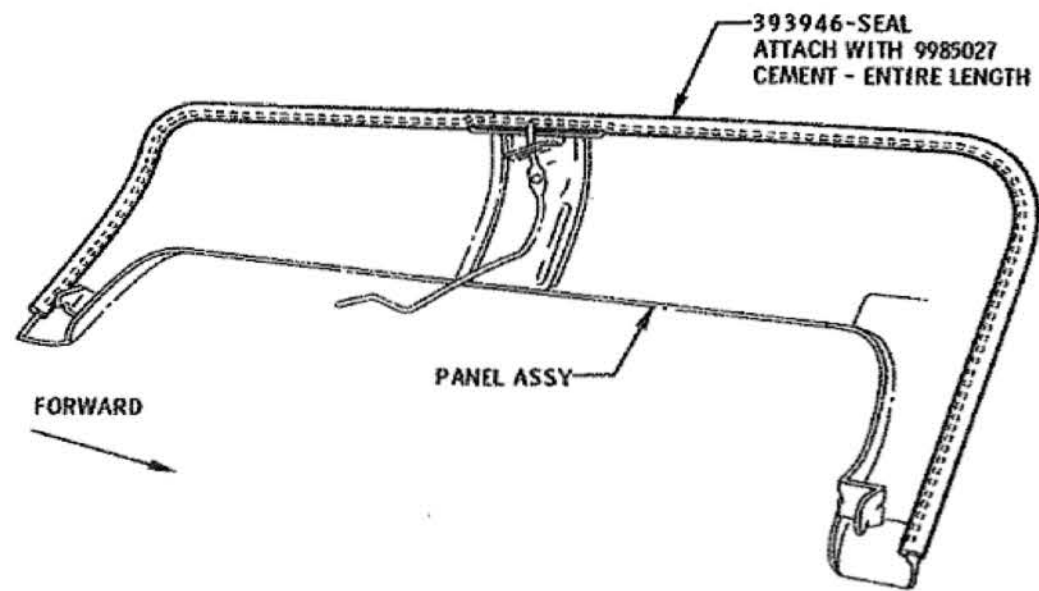


FIGURE 1

TYPICAL MOULDING
INSTALLATION



REAR WHEEL OPENING PANEL
84-8600

TITLE										EXTERIOR MOULDINGS AND ORNAMENTATION									
DATE					FEB. 13, 1967					FIRST USED		1968		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
DR. BY					GOODWIN									11		155			
CHECKED					TITUS					REF. 1A2F		SERIES		B-C		PART NO.		398163	
L-2247 A					TONGUE NOTE ADDED					DR. CK.		APPR.							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

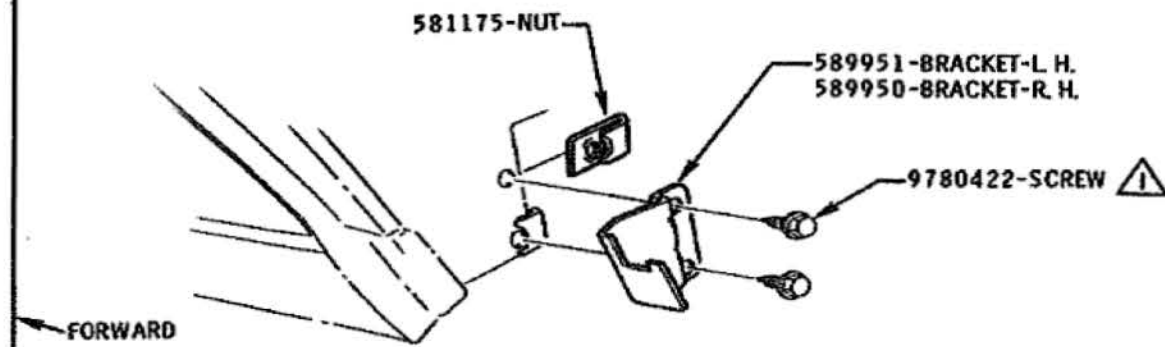


FIGURE 1
INSTALLATION OF FRONT BRACKET

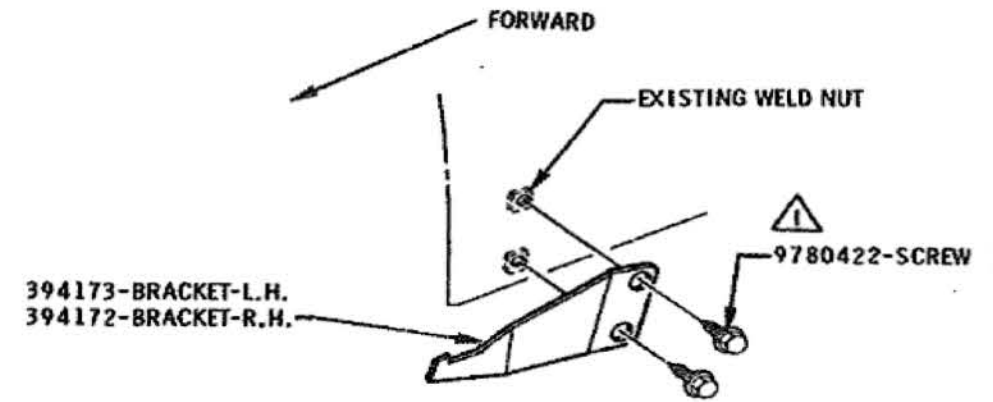


FIGURE 2
INSTALLATION OF REAR BRACKET

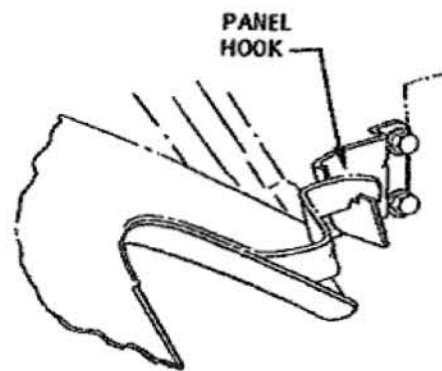


FIGURE 3
CLOSING POSITION FRONT BRACKET

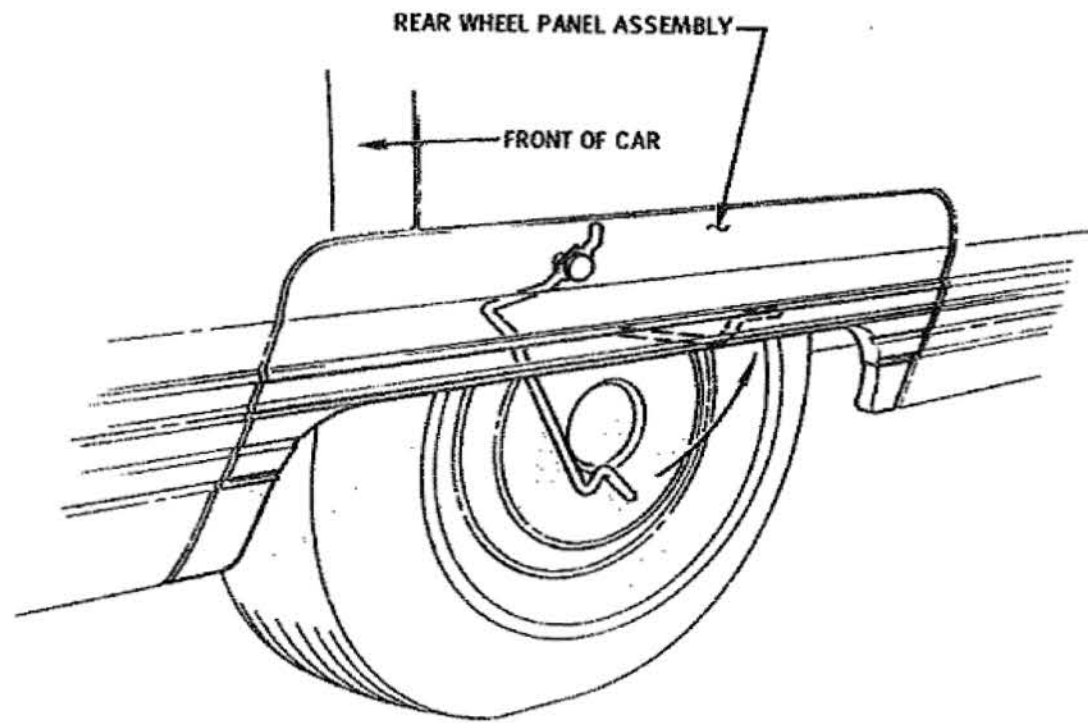
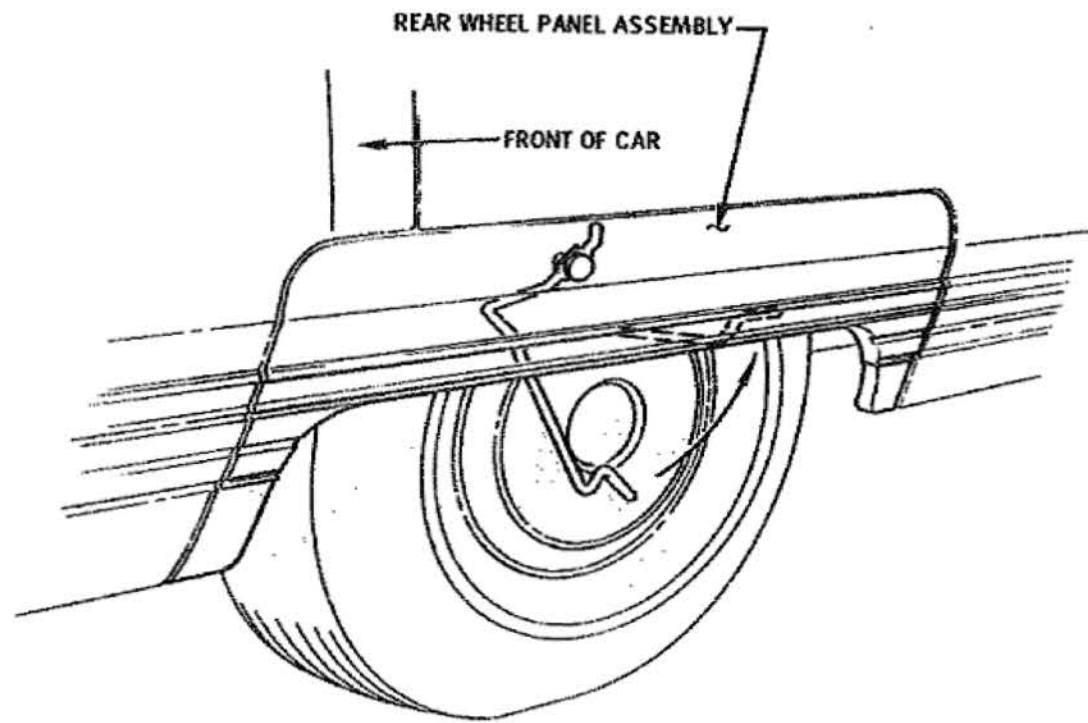


FIGURE 4
CLOSING POSITION REAR BRACKET



- INSTALLATION OF REAR WHEEL OPENING PANEL**
1. INSTALL FRONT AND REAR BRACKETS AS SHOWN IN FIGURES 1 AND 2.
 2. PLACE PANEL HOOKS OVER BRACKETS. HOOKS SHOULD ENGAGE AS SHOWN IN FIGS. 3 & 4.
 3. PUSH PANEL ASSY UP INTO INSTALLED POSITION.
 4. PUSH PANEL HANDLE TOWARD REAR OF CAR AND UP OVER INSIDE FLANGE OF WHEEL COVER.

⚠ 15 - 22 LB. FT

REAR WHEEL OPENING PANEL - 84-8600 ONLY

										TITLE					EXTERIOR MOULDINGS AND ORNAMENTATION							
										DATE FEB. 15, 1967					FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
										DR. BYD C. H. HESSELBAUM					1968		INFORMATION MANUAL		11		156	
										CHECKED <i>John</i>					REF. 1A2F		SERIES		PART NO.			
										6-29-67 A TORQUE ADDED					APPR. <i>WJD</i>		B-C		398163			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.							

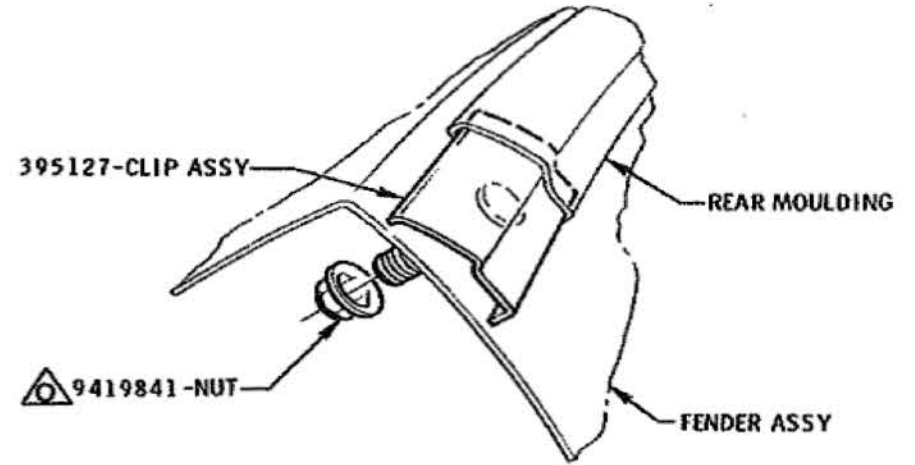
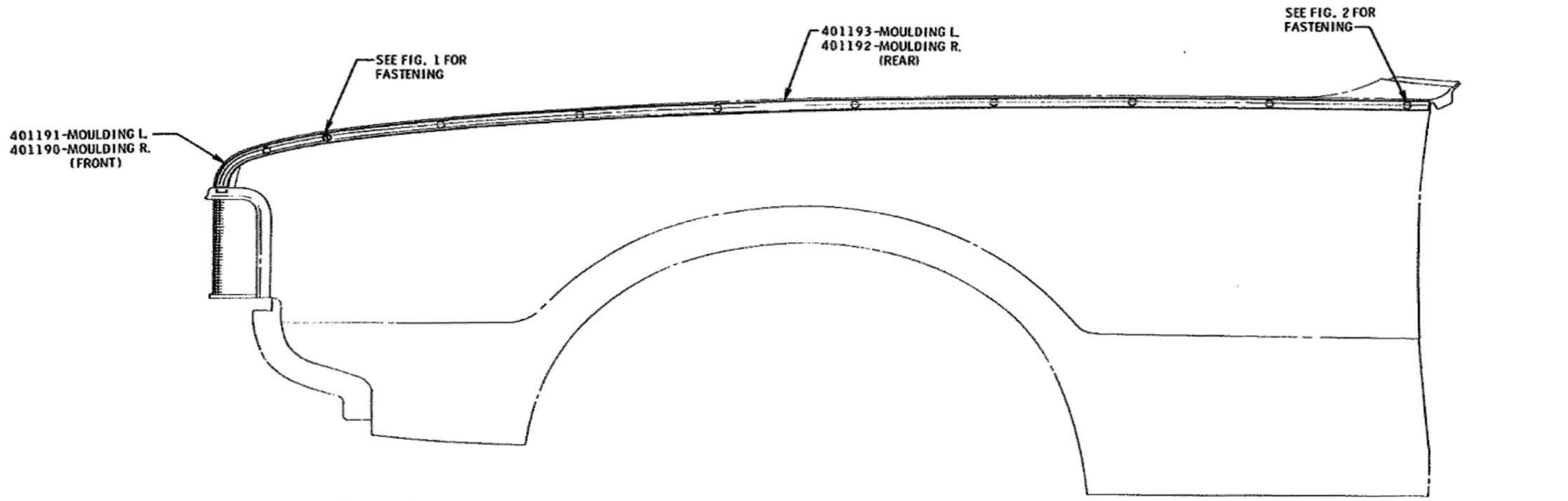


FIGURE 1

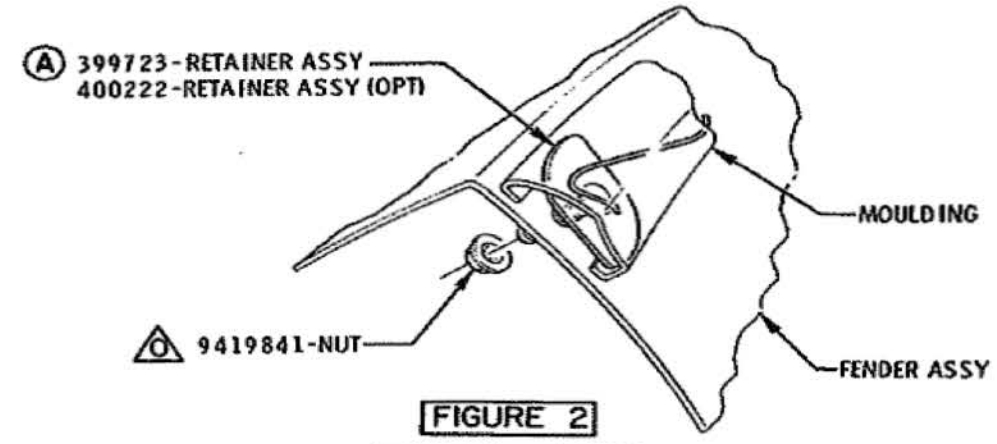


FIGURE 2

TYPICAL MOULDING FASTENING EXCEPT AS NOTED

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE												35Y68 EXTERIOR MOULDINGS							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																1968		11	157
					9-14-67	B	FIG. 3 REMOVED												
					9-14-67	A	WAS 396260-RET. ASSY												
																REF. 35Y68	SERIES B-C	PART NO. 398163	

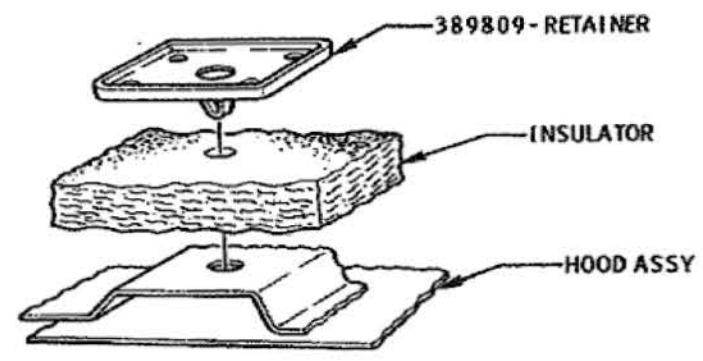
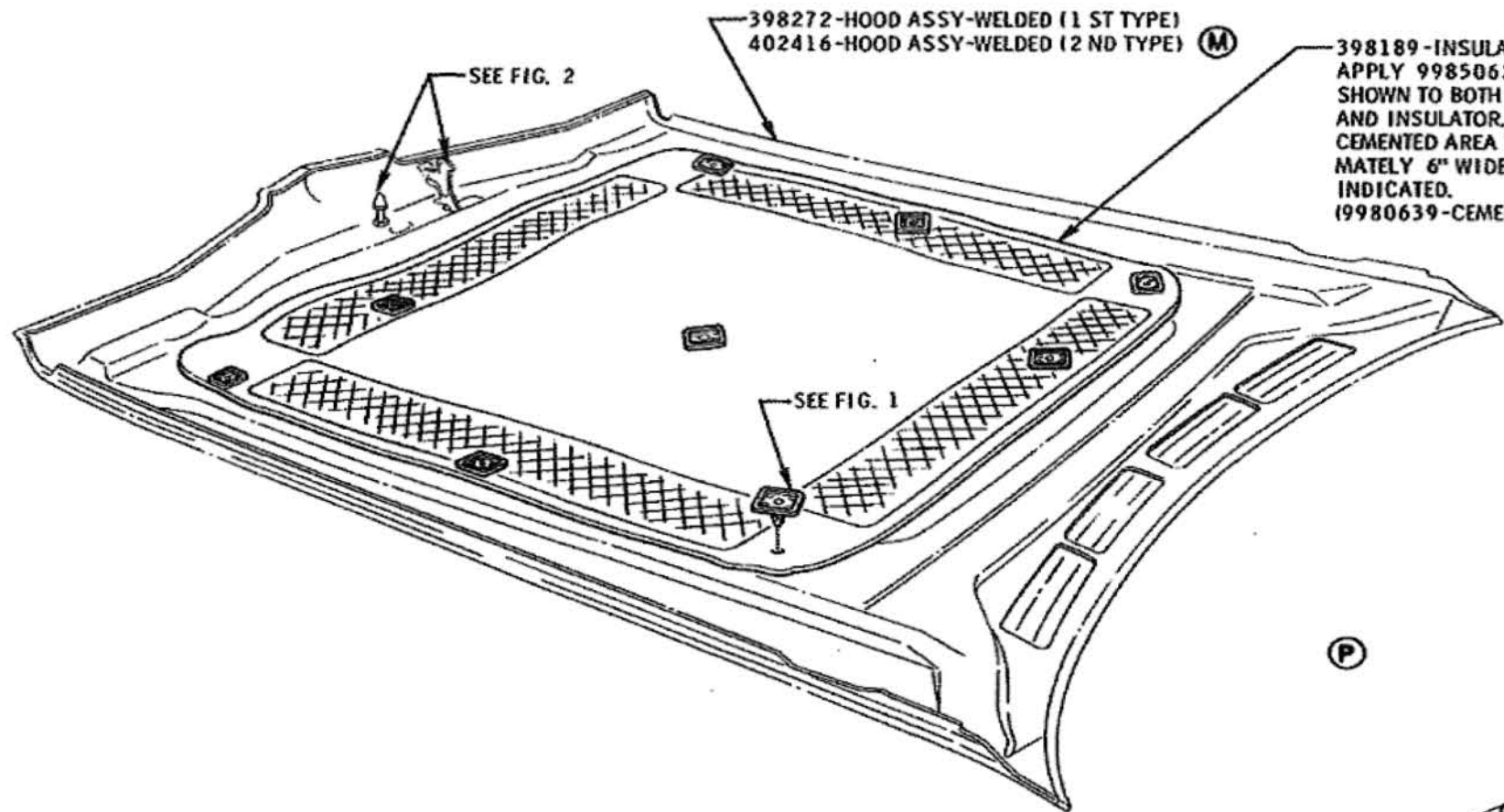
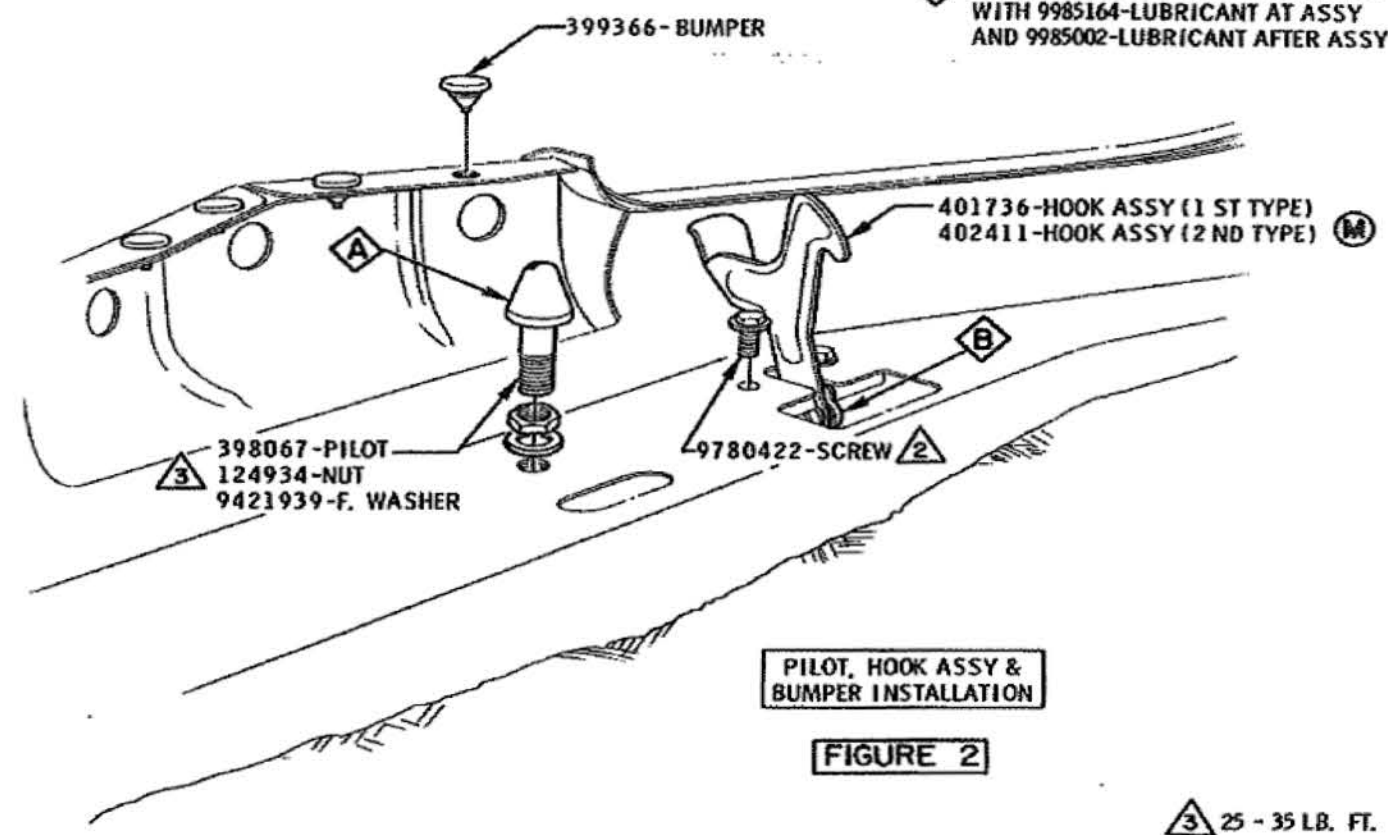


FIGURE 1

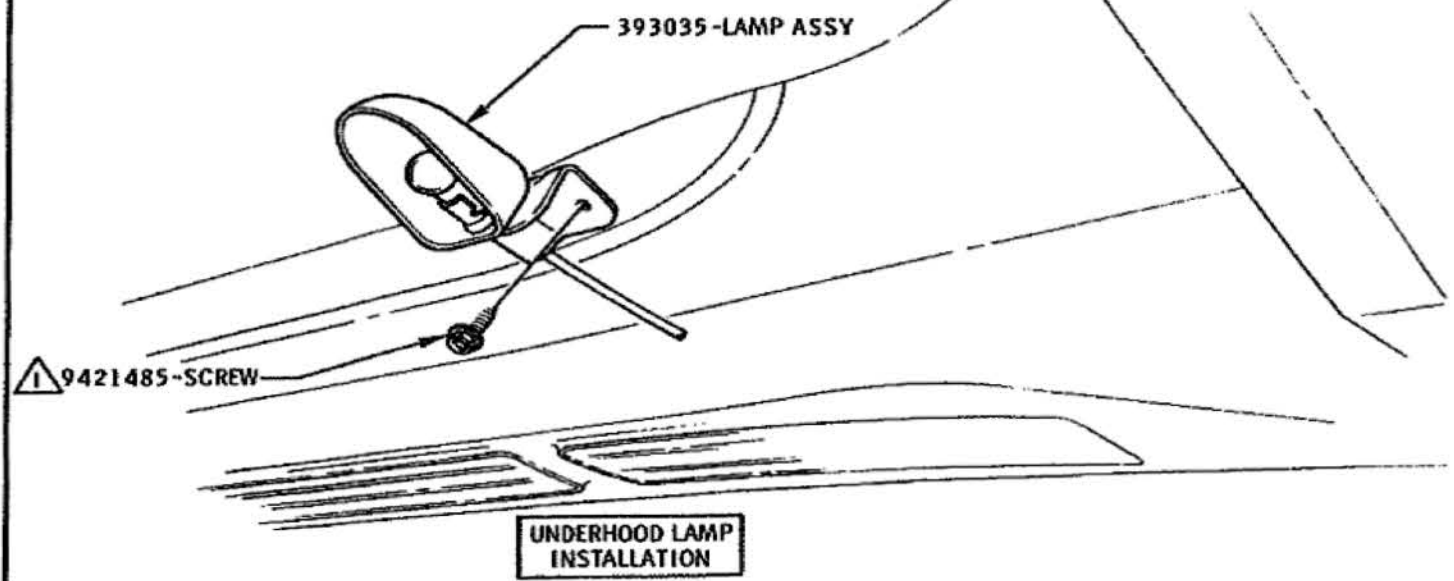
- (A)** APPLY 9985164-LUBRICANT TO SIDES OF PILOT
- (B)** LUBRICATE SECONDARY HOOK RIVET WITH 9985164-LUBRICANT AT ASSY AND 9985002-LUBRICANT AFTER ASSY



PILOT, HOOK ASSY & BUMPER INSTALLATION

FIGURE 2

- (3)** 25 - 35 LB. FT.
- (2)** 15 - 22 LB. FT.
- (1)** 10 - 15 LB. IN.



UNDERHOOD LAMP INSTALLATION

REVISION		REVISION		REVISION		REVISION		REVISION		TITLE		FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
DATE	SYM	DR. CK.	DATE	SYM	DR. CK.	DATE	SYM	DR. CK.	DATE	DR. CK.	APPR.				
6-6-68	P											1968		11	180
3-19-68	N														
11-7-67	M														
8-21-67	L														

398163

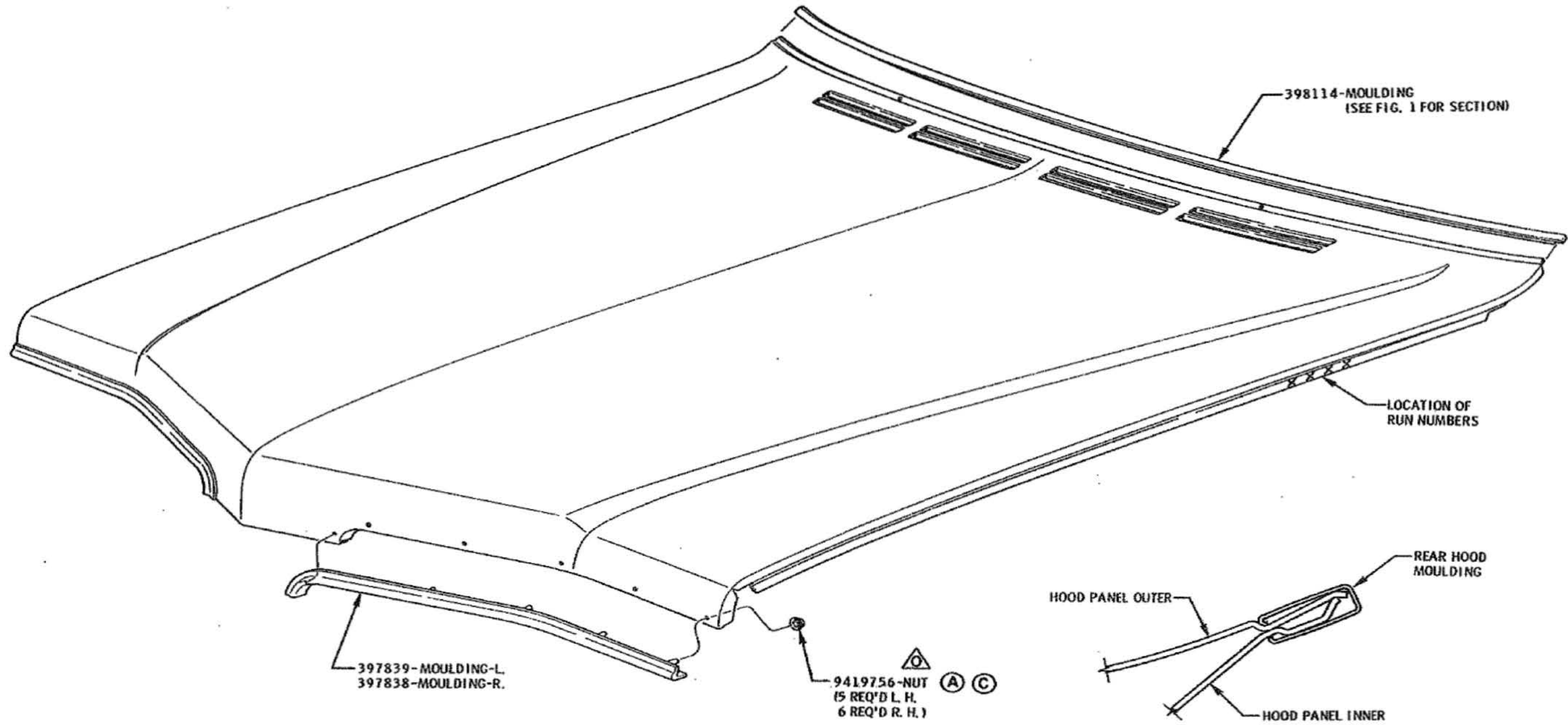
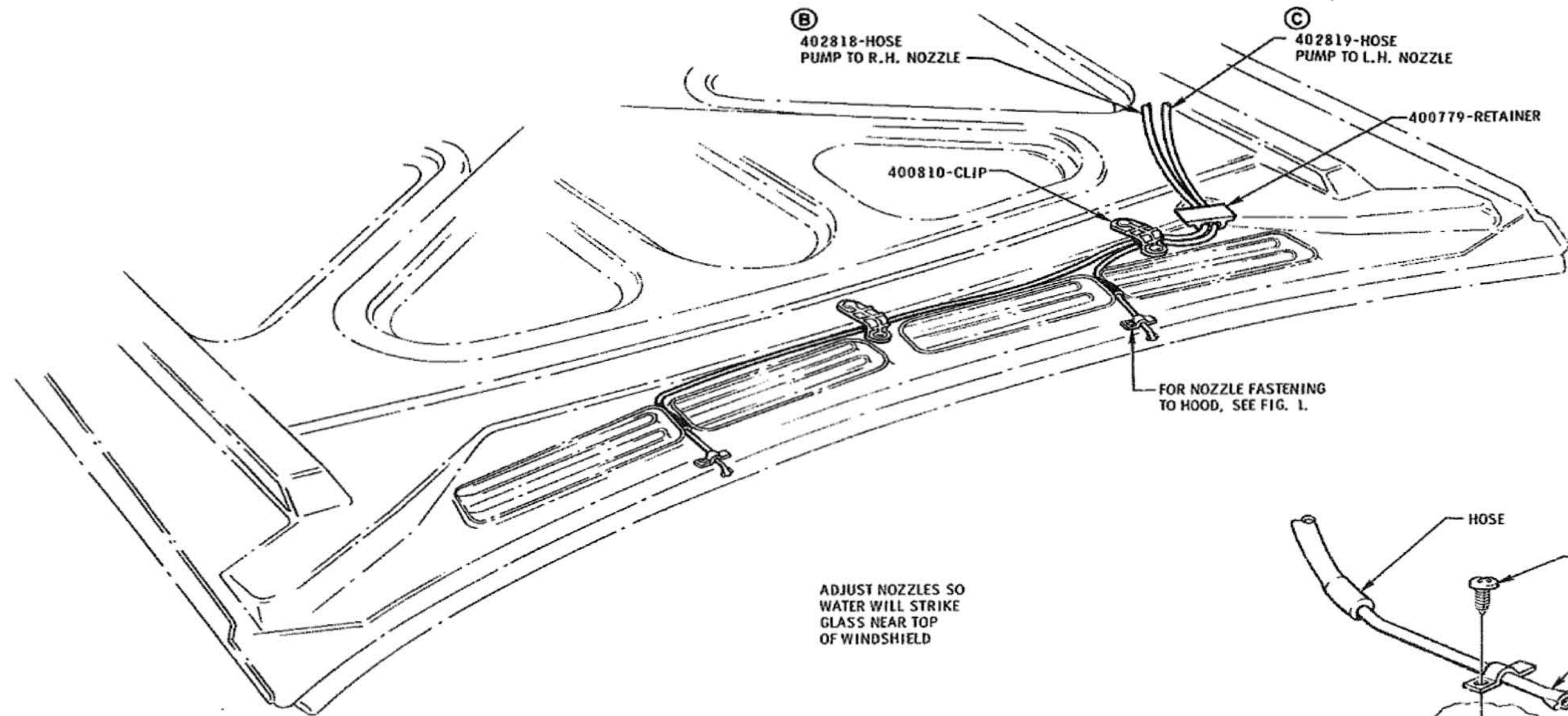


FIGURE 1

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE												HOOD ASSEMBLY - COMPLETE									
												DATE	JAN. 20, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	11	PAGE	181	
												DR. BY	C. H. HERRING	CHECKED	J. H. HERRING	REF. 110, 116	SERIES	B-C	PART NO.	398163	
												DATE	7-17-67	SYM	C	REVISION	FASTENING QUANTITY REV.	DR. CK.			
												DATE	6-22-67	SYM	B	REVISION	TORQUE NOTE ADDED	DR. CK.			
												DATE	5-24-67	SYM	A	REVISION	FASTENING QUANTITY REV.	DR. CK.			
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.					



ADJUST NOZZLES SO
WATER WILL STRIKE
GLASS NEAR TOP
OF WINDSHIELD

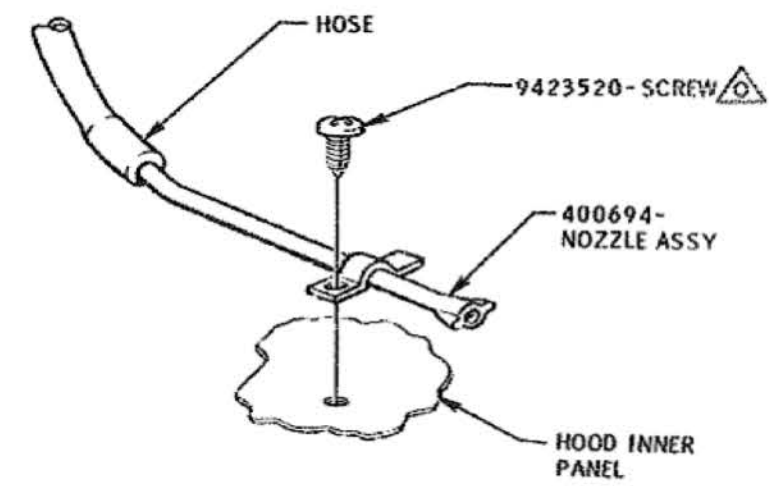
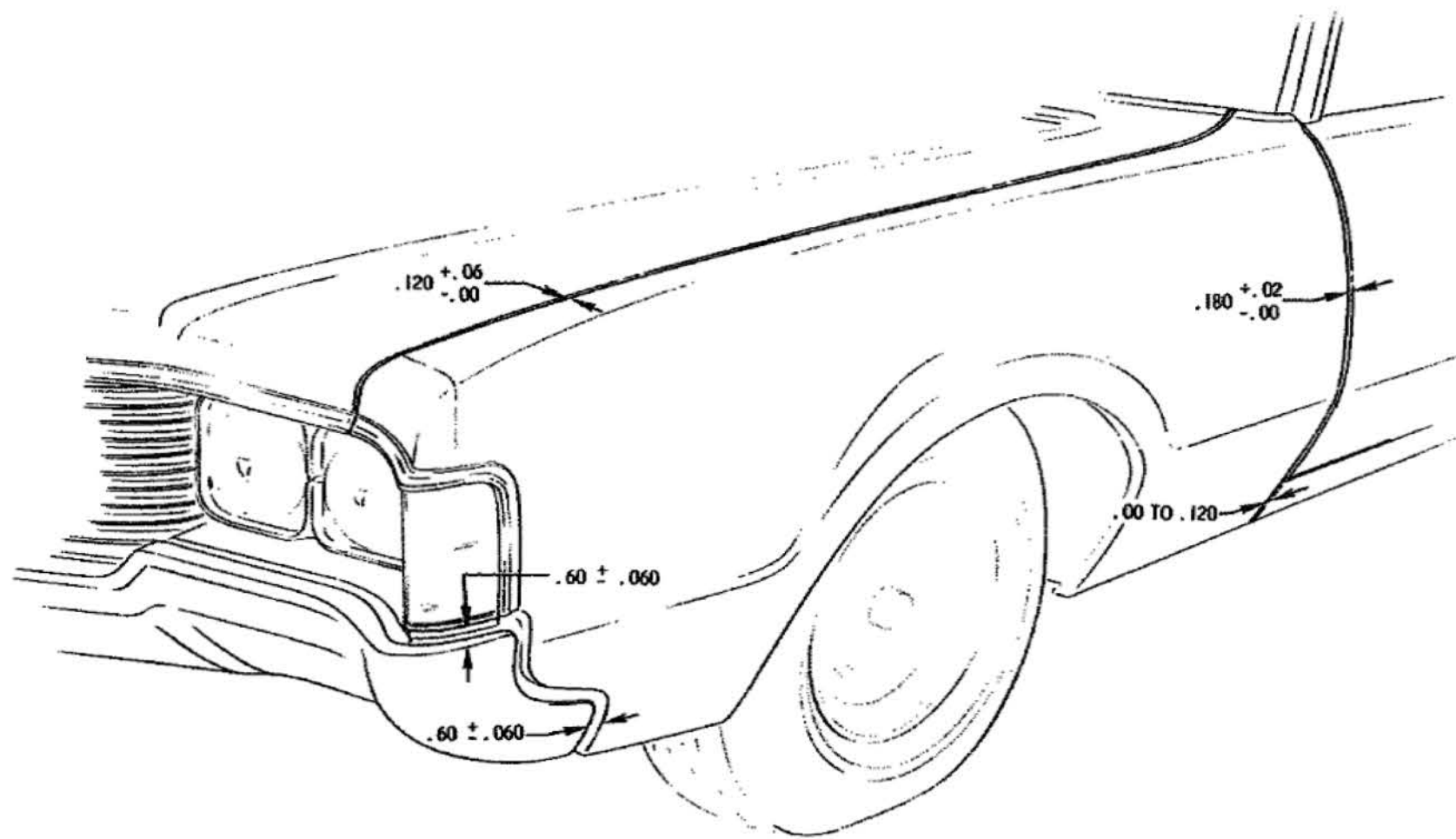


FIGURE 1

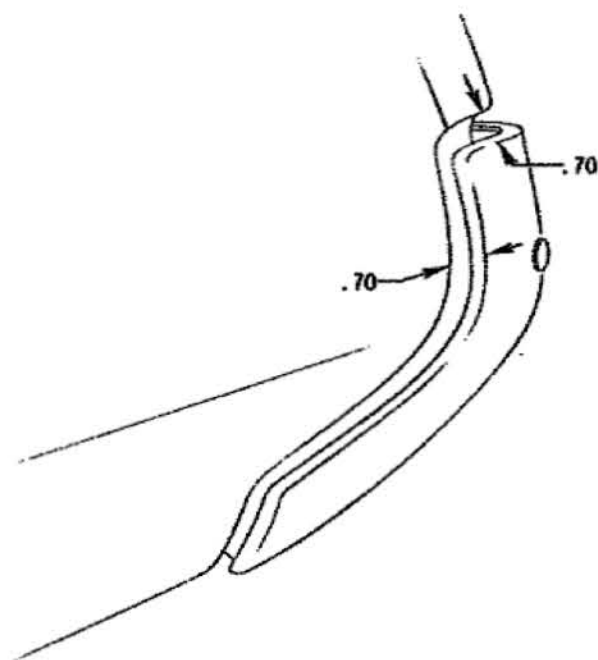
△ MUST BE FULLY DRIVEN, SEATED, AND NOT STRIPPED.

NOZZLE FASTENING

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
																WINDSHIELD WASHER HOSE ROUTING (HOOD)	1968		11	182	
					12-67	C	WAS 381027-HOSE	PL	DT												
					12-67	B	WAS 584838-HOSE	PL	DT												
					9-27-67	A	TORQUE NOTE ADDED	PL	DT								REF. 1420				
																		SERIES	PART NO.		
																		B-C	398163		



ALL DIMENSIONS SHOWN
ARE OUTSIDE OF METAL



VIEW OF REAR
FENDER AND BUMPER

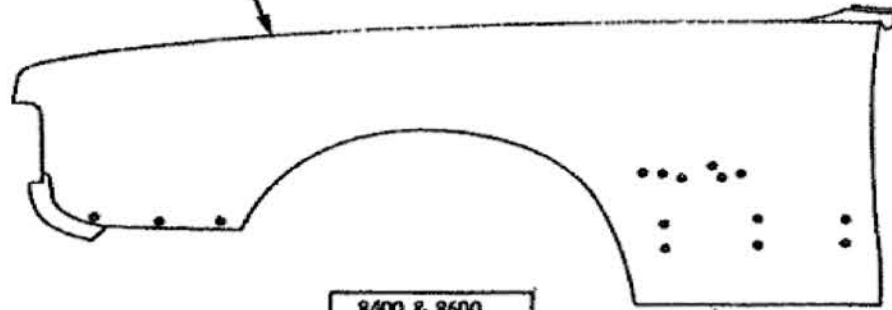
TITLE												SHEET METAL CLEARANCE									
DATE						FEB. 13, 1967						FIRST USED		1968		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
DR. BY						GOODWIN						REF.				SERIES		PART NO.			
CHECKED														B-C		398163					
APPR.																					
APPR.																					
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	REF.	SERIES	PART NO.	MANUAL SECTION	PAGE				

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

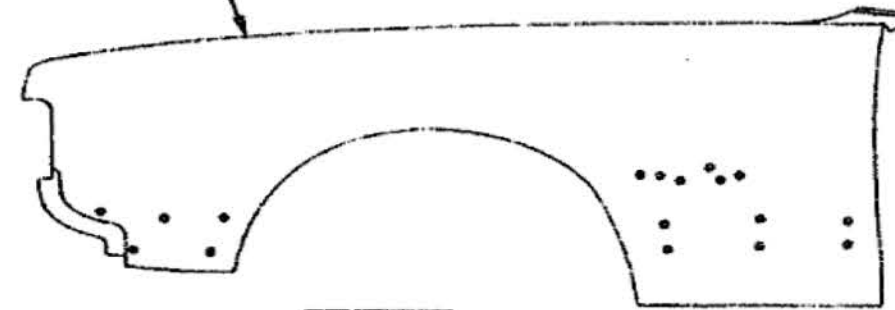
L. H. CARROLL, INC. 4877

400076
400077 -FENDER ASSY (AFTER PIERCING)



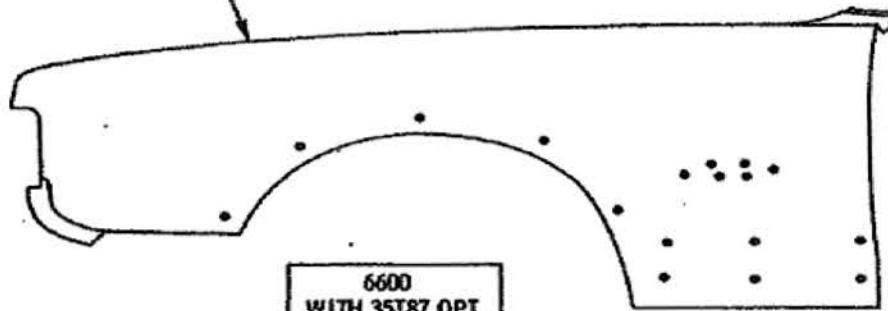
8400 & 8600
WITH 35T87 OPT.

400066
400067 -FENDER ASSY (AFTER PIERCING)



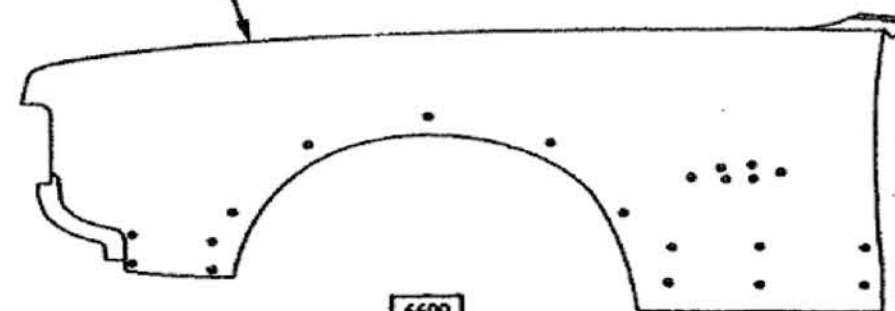
8400 & 8600

400074
400075 -FENDER ASSY (AFTER PIERCING)



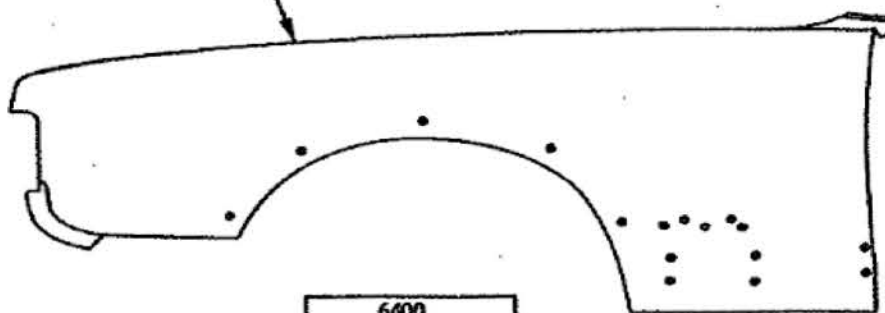
6600
WITH 35T87 OPT.

400064
400065 -FENDER ASSY (AFTER PIERCING)



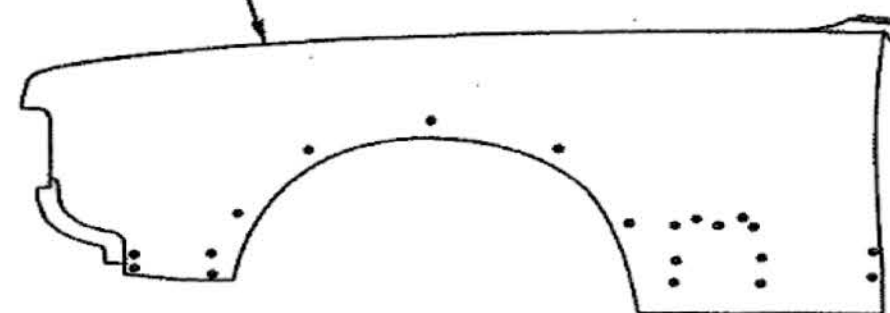
6600

400072
400073 -FENDER ASSY (AFTER PIERCING)



6400
WITH 35T87 OPT.

400062
400063 -FENDER ASSY (AFTER PIERCING)



6400

FOR HOLE SIZES AND LOCATIONS
SEE DWG. 400057

L. H. FENDER SHOWN

SHEET 1 OF 3

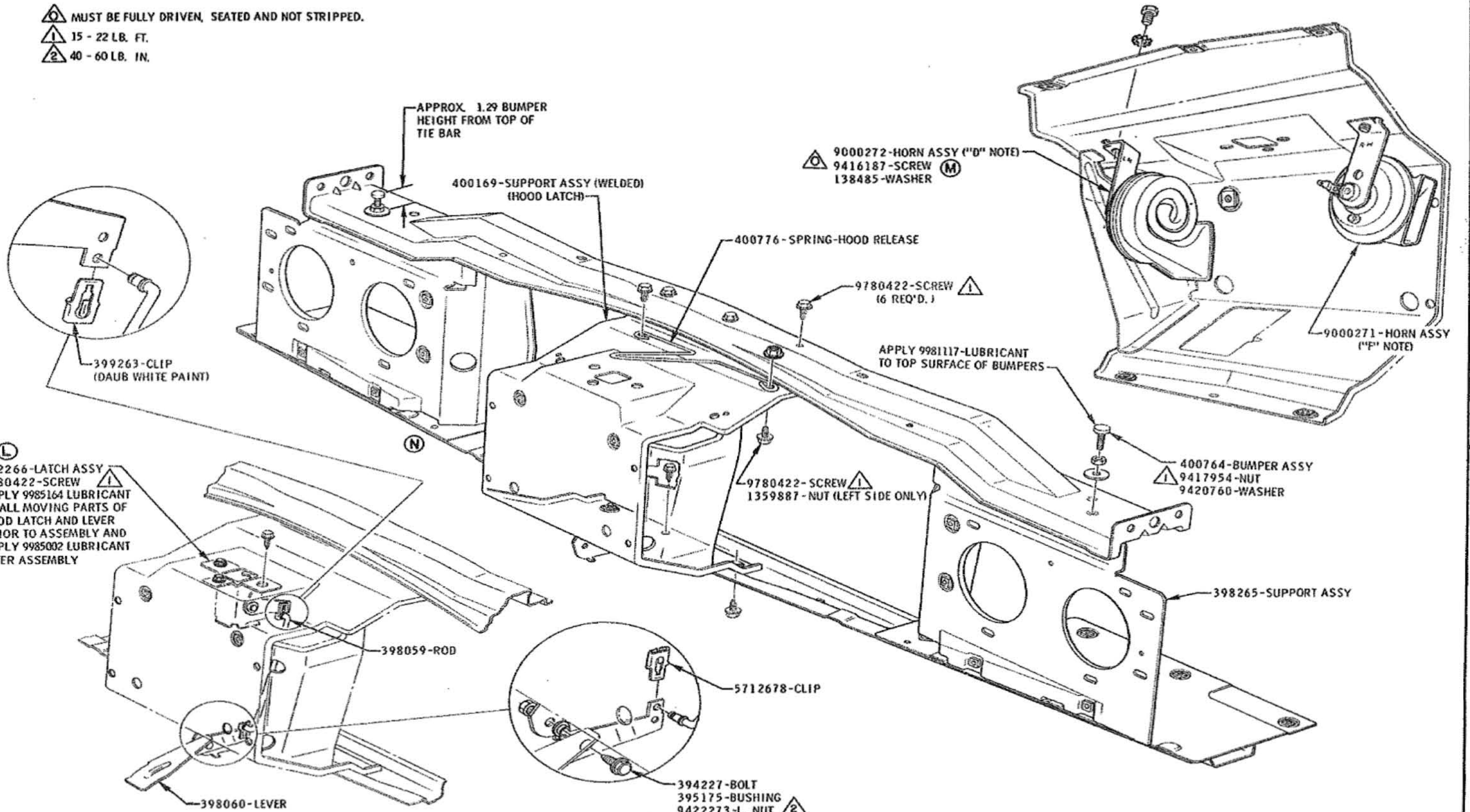
												TITLE				CHART - FENDER IDENTIFICATION							
												DATE FEB. 24, 1967				FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
												DR. BY K. LOVELL				1968		INFORMATION MANUAL		11		105	
												CHECKED DON MALKIN				REF.		SERIES		PART NO.			
												APPR. <i>[Signature]</i>						B-C		400749			
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.				

52367 A WAS SHEET 1 OF 2

PW

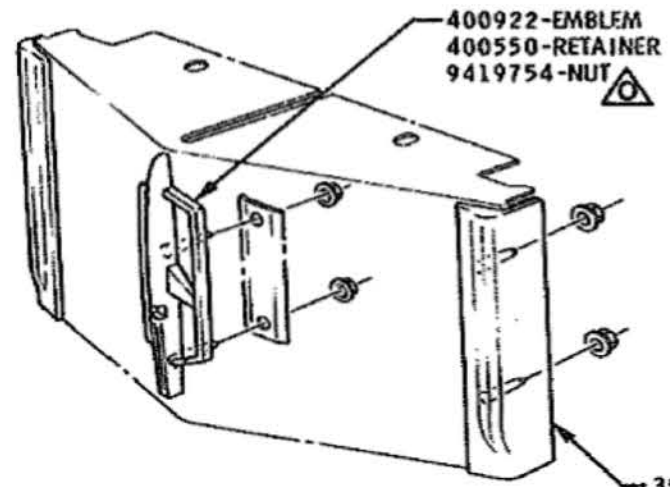
APP.

- ⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.
- ① 15 - 22 LB. FT.
- ② 40 - 60 LB. IN.



REVISION HISTORY														GENERAL INFORMATION							
DATE	SYN	REVISION	DR.	CK.	DATE	SYN	REVISION	DR.	CK.	DATE	SYN	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
10-12-67	K	WAS 1359887-NUT	R ₆	DT	6-8-67	E	WAS 15-22 LB. FT.	B ₁	DT	SUPPORT ASSEMBLY-HOOD LATCH-HORNS											
10-12-67	J	WAS 9780422-SCREW	R ₆	DT	5-17-67	D	REVISED & REDRAWN	J ₁₃	DT	DATE	JAN. 20, 1967	DR. BY	GOODWIN	1968	11		110				
2-27-68	N	9780422-SCREW REM'D	R ₆	DT	10-2-67	H	LUBE NOTE ADDED	R ₁₁	DT	3-2-67	C	WAS 564658 BUMPER	T ₁	DT	CHECKED	J ₁₁	REF. 11D, 11E, 12G	SERIES	B-C	PART NO.	398163
10-31-67	M	WAS 9416740-SCREW	R ₆	DT	7-7-67	G	TORQUE ADDED	B ₁₀	DT	BR 2-3-67	B	PART NUMBERS ADDED	R ₆	DT	APPR.	J ₁₁					
10-30-67	L	WAS 398053-LATCH ASSY	R ₆	DT	6-27-67	F	LUBE NOTE REVISED	R ₆	DT	2-3-67	A	WAS 397973-HOOD SQUARE	F ₆	DT							

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.
⚠ 15 - 22 LB. FT.



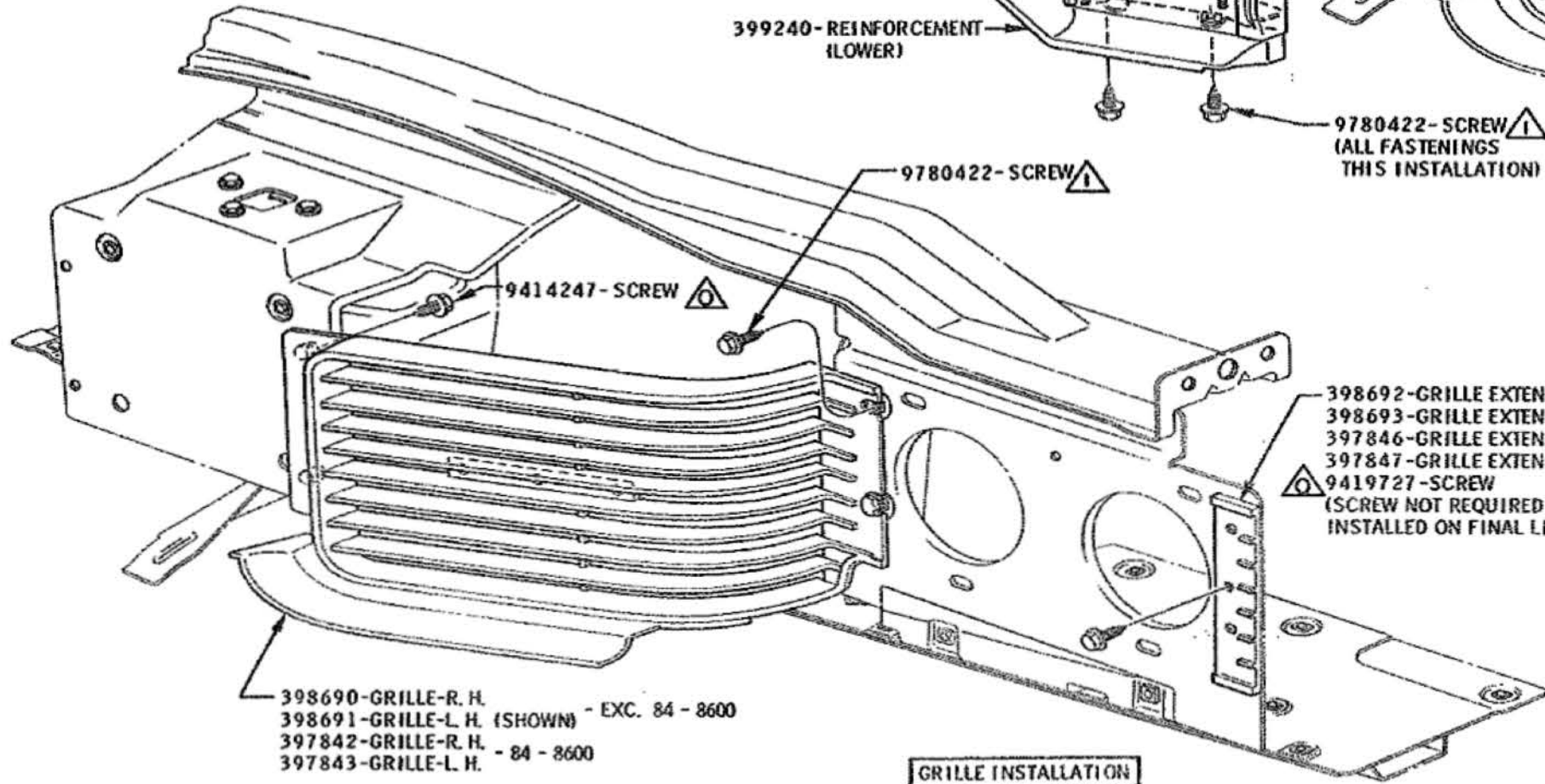
**MOULDING & EMBLEM
INSTALLATION**

399236-PANEL ASSY
PANEL ASSY MUST BE ADJUSTED
UP AGAINST HOOD AND ALIGNED
WITH HOOD MOULDINGS AFTER
THE HOOD HAS BEEN SET.
ⓐ

399368-MOULDING-R.H.
399369-MOULDING-L.H.
9419756-NUT ⚠

399238-REINFORCEMENT ASSY

399240-REINFORCEMENT
(LOWER)

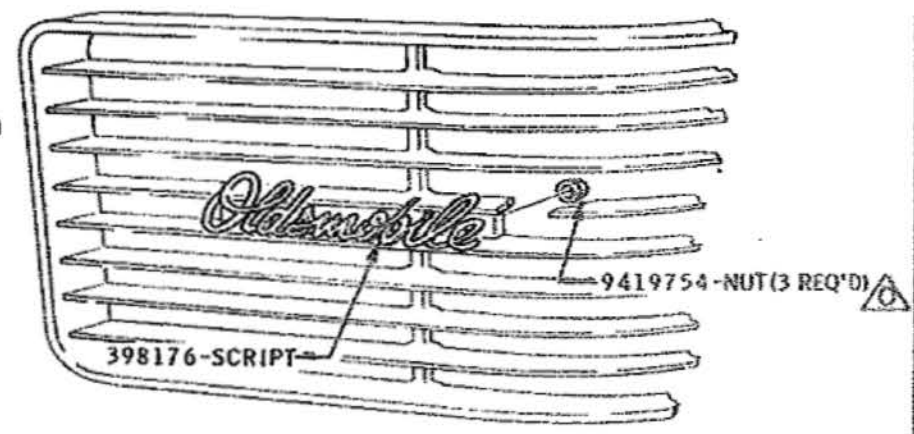


GRILLE INSTALLATION

9780422-SCREW ⚠
(ALL FASTENINGS
THIS INSTALLATION)

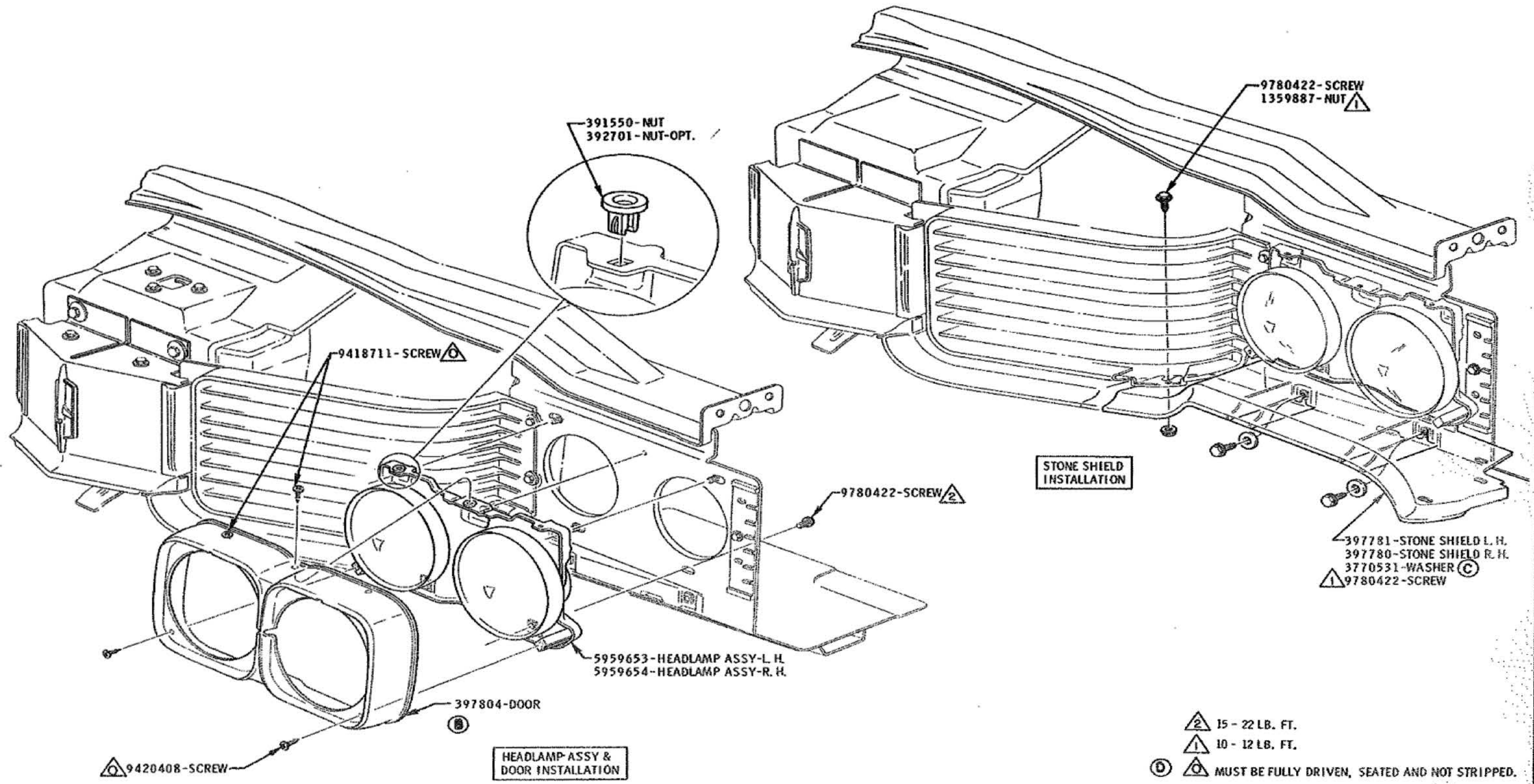
3770531-WASHER

**FRONT CENTER PANEL
INSTALLATION**



**RADIATOR GRILLE
SCRIPT INSTALLATION** ⓐ

										TITLE		GRILLE - FRONT CENTER PANEL		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
										DATE		1968		INFORMATION MANUAL		II		112			
										7-10-67 D TORQUE ADDED		MB		DATE JAN. 20, 1967		DR. BY GOODWIN					
										6-27-67 C ADJUSTMENT NOTE ADDED		DY		CHECKED							
										6-21-67 B REVISED & REDRAWN		DY		APPR.							
										2-25-67 A VIEW ADDED		DY		REF. 115, 116, 13C		SERIES B-C		PART NO. 398163			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	REF.	SERIES	PART NO.			



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
										7-7-67	D	TORQUE ADDED			3P	HEADLAMP ASSY - HEADLAMP DOOR - STONE SHIELD	1968		11	113
										4-11-67	C	3770531 WASHER ADDED			DT	DATE JAN. 20, 1967				
										3-3-67	B	PART NO. REMOVED			DT	DR. BY GOODWIN				
										3-3-67	A	TORQUE ADDED			DT	CHECKED T. GUY				
																REF. 115, 120				
																SERIES B-C				
																PART NO. 398163				

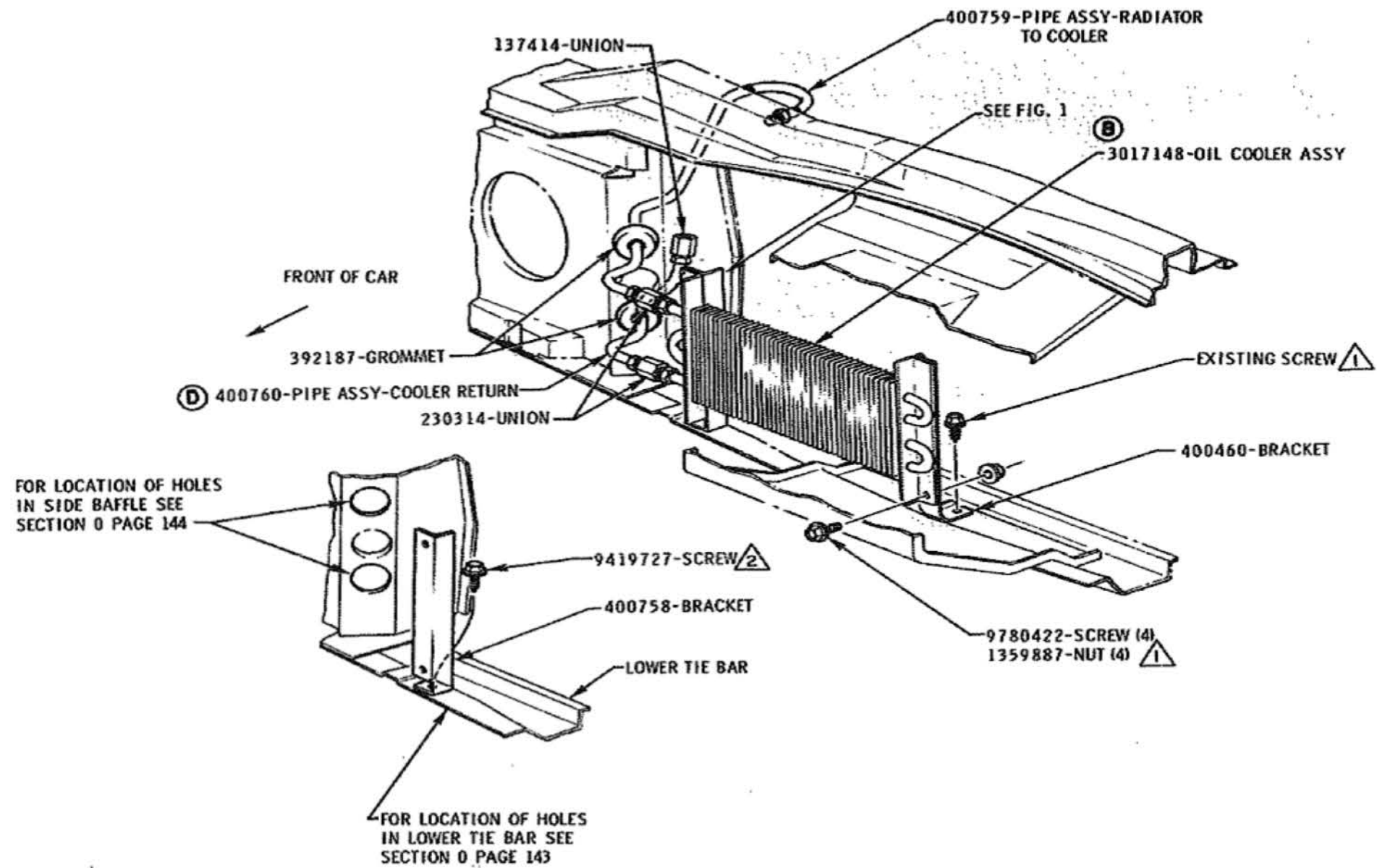
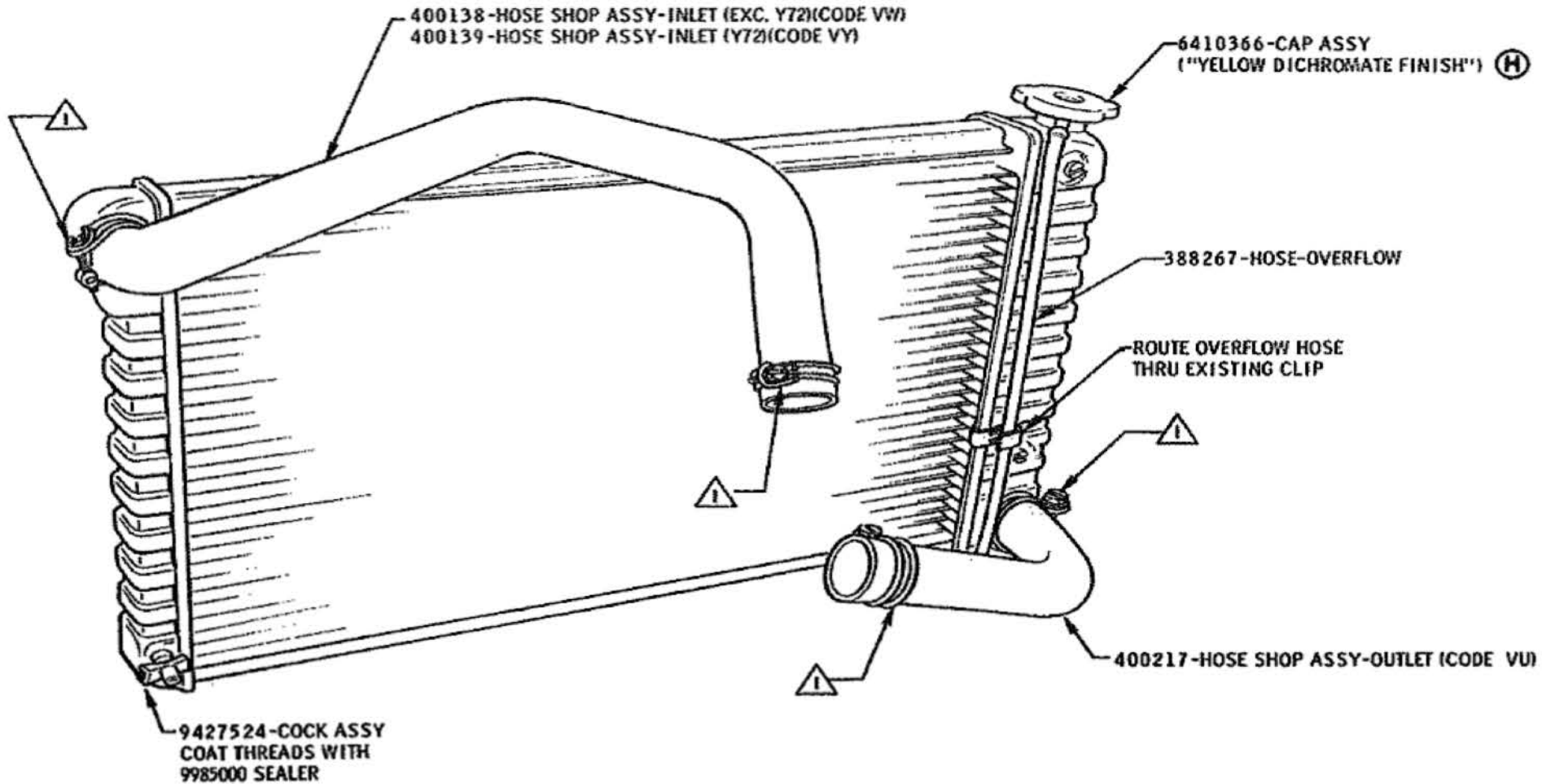


FIGURE 1

② 30-60 LB. IN.
① 15-22 LB. FT.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					10-20-67	D	PIPE REV TO DETAIL	OM		APRIL 25, 1967						AUXILIARY OIL COOLER - AUTOMATIC TRANSMISSION	1968		11	114	
					9-8-67	C	TORQUE ADDED	OM													
					9-7-67	B	WAS 3014548 COOLER	OM													
					9-1-67	A	PART NO. ADDED	OM													
																	35M55	B-C		398163	



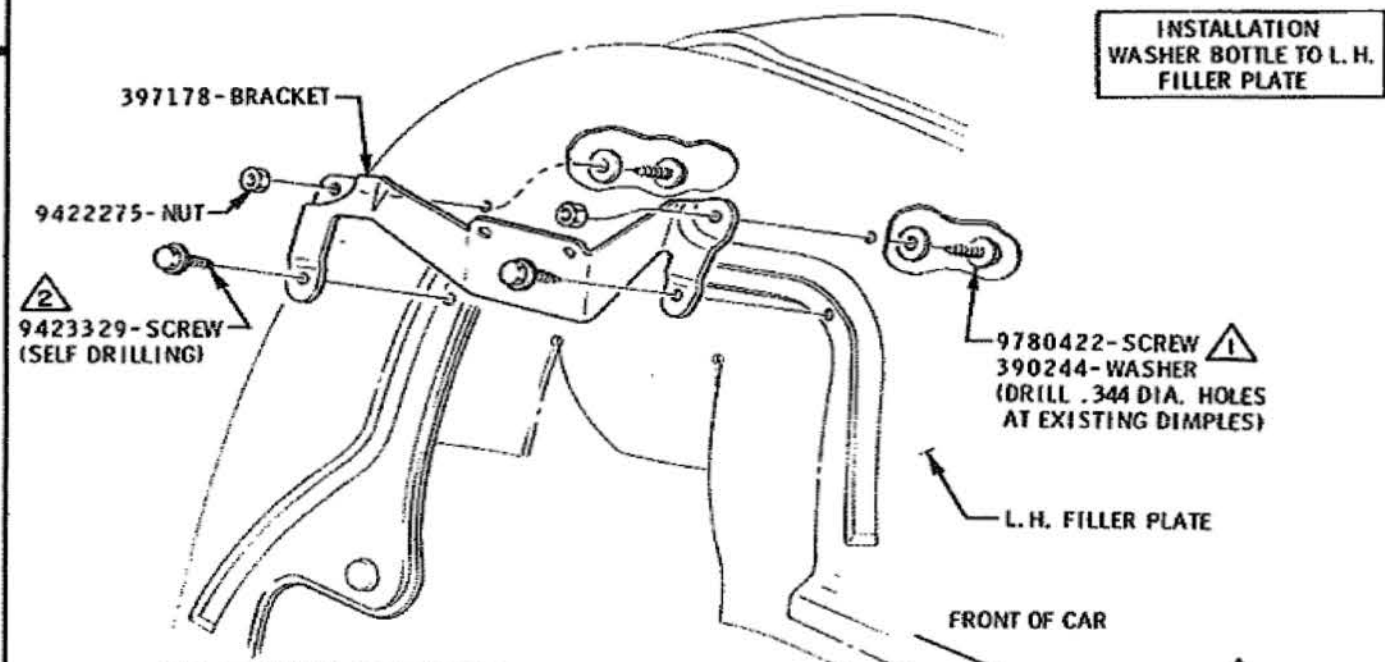
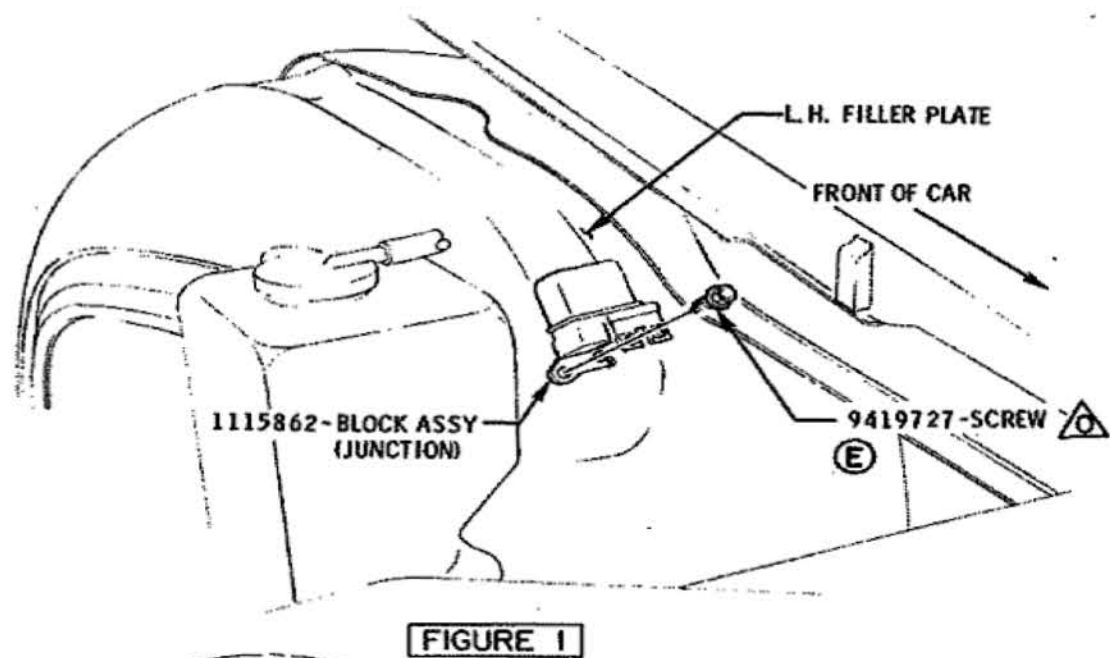
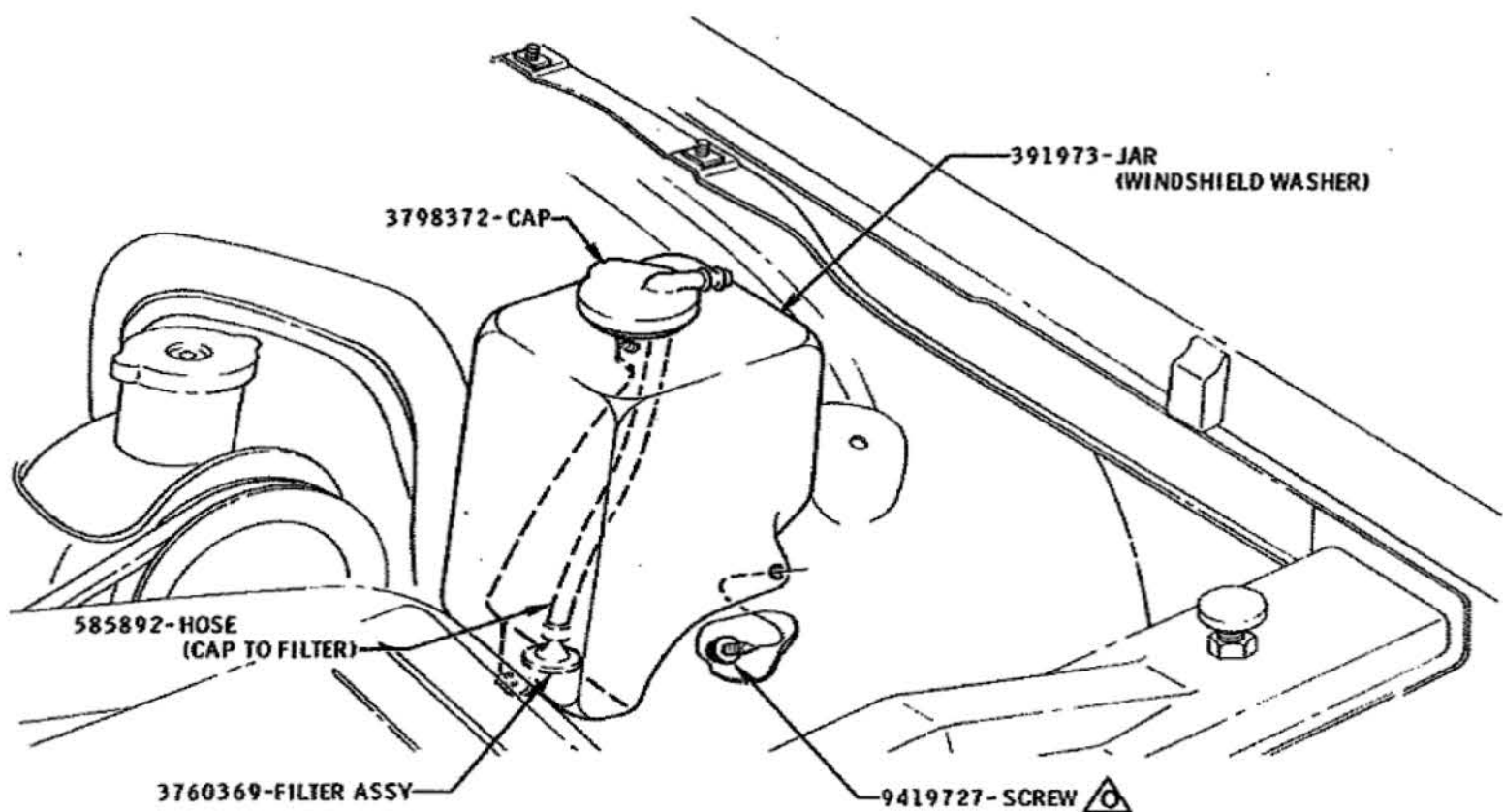
NOTE: COOLING SYSTEM IS TO BE PRESSURE CHECKED (J) FOR HOSE BLOW-OFF AND LEAKS IN ACCORDANCE WITH METHODS ENGINEERING APPROVED PROCESS #1173 REV. B. (K)

ADD 2 PELLETS OF 9985168-SEALER IN RADIATOR

INSTALLATION OF RADIATOR HOSES & CLAMPS

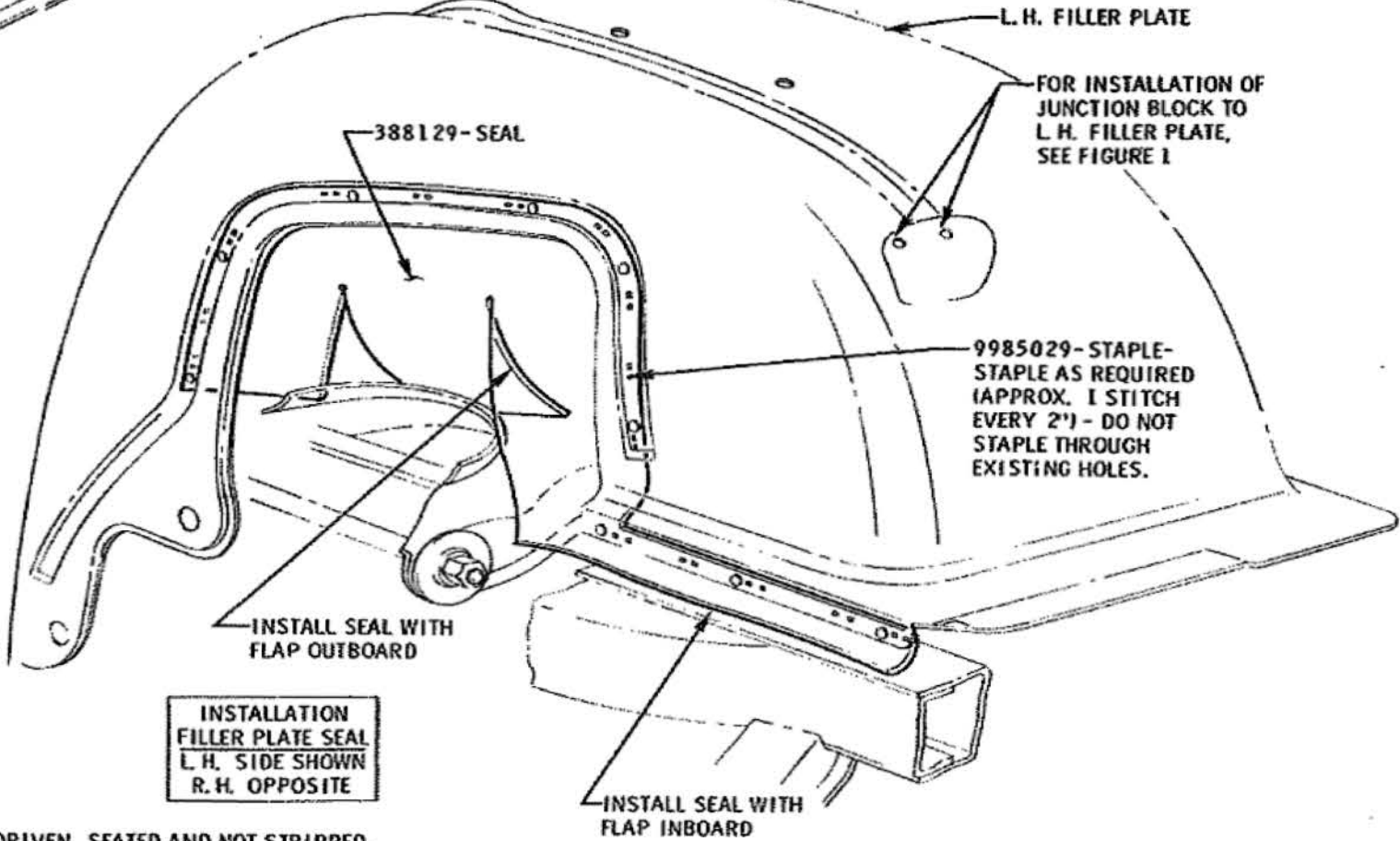
⚠ 18 - 26 LB. IN. (WIRE TYPE CLAMP ONLY)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
		9-29-68	K				NOTE REVISED	FR	DT	8-4-67	E	VIEW REMOVED		DT		RADIATOR PARTS & HOSES				
		3-18-68	J				NOTE REVISED	FR	DT	6-29-67	D	NOTE ADDED		DT		DATE JAN 24, 1967	1968		11	118
		2-21-68	H				NOTE ADDED	FR	DT	2-18-67	C	REVISED TO DETAIL		DT		DR. BY D.C. HME/BAK				
		5-14-67	G				CLONES ADDED	FR	DT	2-8-67	B	PART NO. ADDED		DT		CHECKED J. 1/68				
		2-4-67	F				OVERFLOW HOSE ADDED	FR	DT	2-8-67	A	WAS 261042 CAP		DT		REF. 139, 6 KE				
															APPR.	SERIES B-C				398163



INSTALLATION
WASHER BOTTLE TO L. H.
FILLER PLATE

INSTALLATION
CRUISE CONTROL BRACKET
TO FILLER PLATE

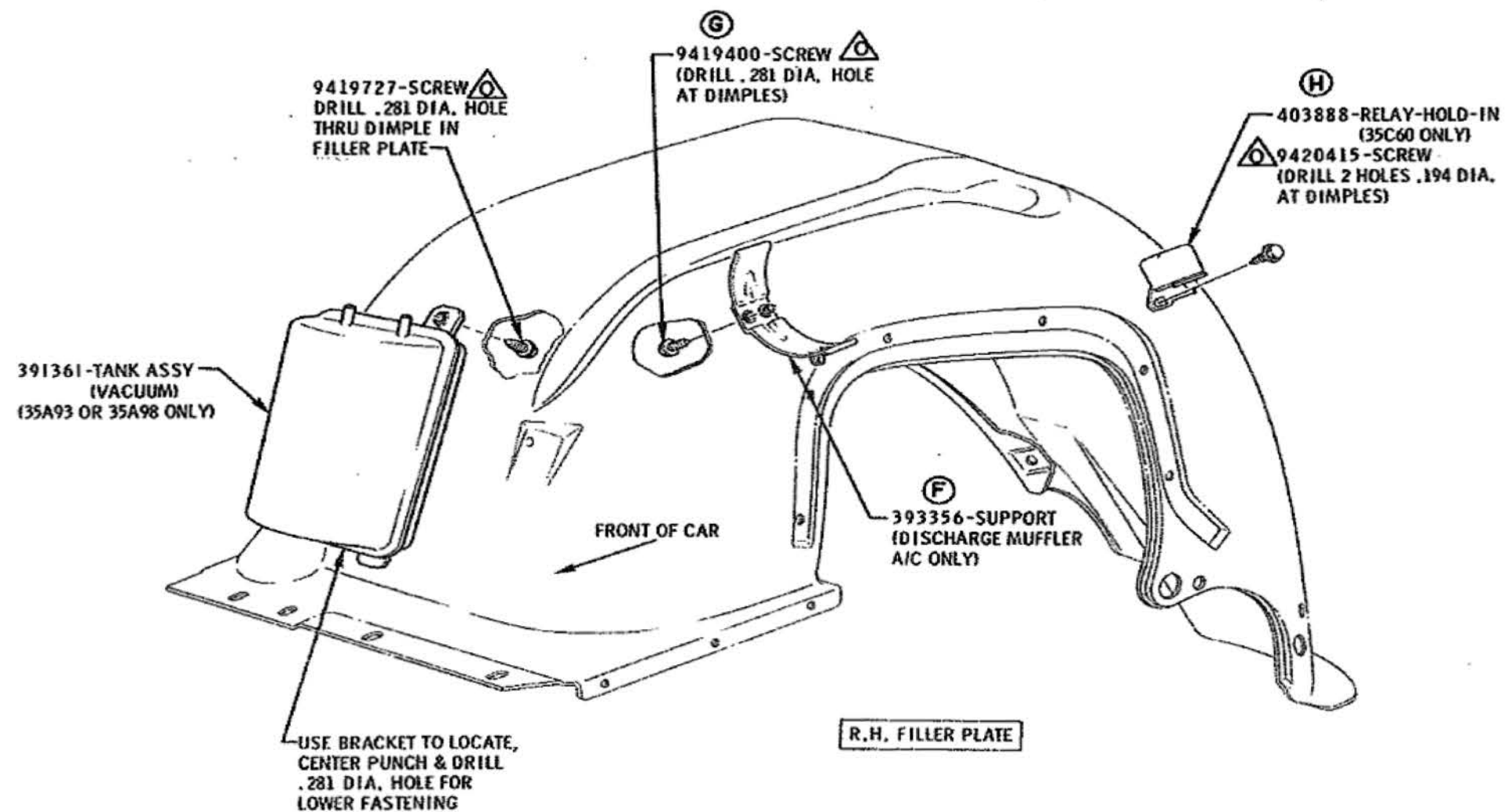


INSTALLATION
FILLER PLATE SEAL
L.H. SIDE SHOWN
R.H. OPPOSITE

- (2)** 25-35 LB. IN.
- (H)** 15-22 LB. FT.
- (F)** **(O)** MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

L. H. FILLER PLATE COMPONENT PARTS											
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM
					6-18-67	E	WAS 9420065-SCREW		DT		
					6-19-67	D	WAS 551824 JUNCTION		DT		
					8-28-67	H	TORQUE REVISED		DT	2-20-67	C
					8-9-67	G	REDRAWN NO CHANGE		DT	2-17-67	B
					6-28-67	F	TORQUE NOTE ADDED		DT	2-17-67	A

TITLE		L. H. FILLER PLATE COMPONENT PARTS		
DATE	JAN. 20, 1967	FIRST USED	1968	PAGE
DR. BY	Goodwin	OLDSMOBILE PRODUCT INFORMATION MANUAL	11	130
CHECKED	Titus	REF.	11, 12	
APPR.		SERIES	B-C	PART NO.
				398163



Δ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	
					10-9-67	E	RELAY REPOSITIONED	DR												
					9-22-67	D	35C60 RELAY ADDED	DR												
					7-10-67	C	MUFFLER SUPPORT REMOVED	DR												
					7-10-67	B	TORQUE NOTE ADDED	DR												
					7-10-67	A	USAGE NOTE ADDED	DR												
					10-9-67	F	MUFFLER SUPPORT ADDED	DR												

TITLE R. H. FILLER PLATE COMPONENT PARTS

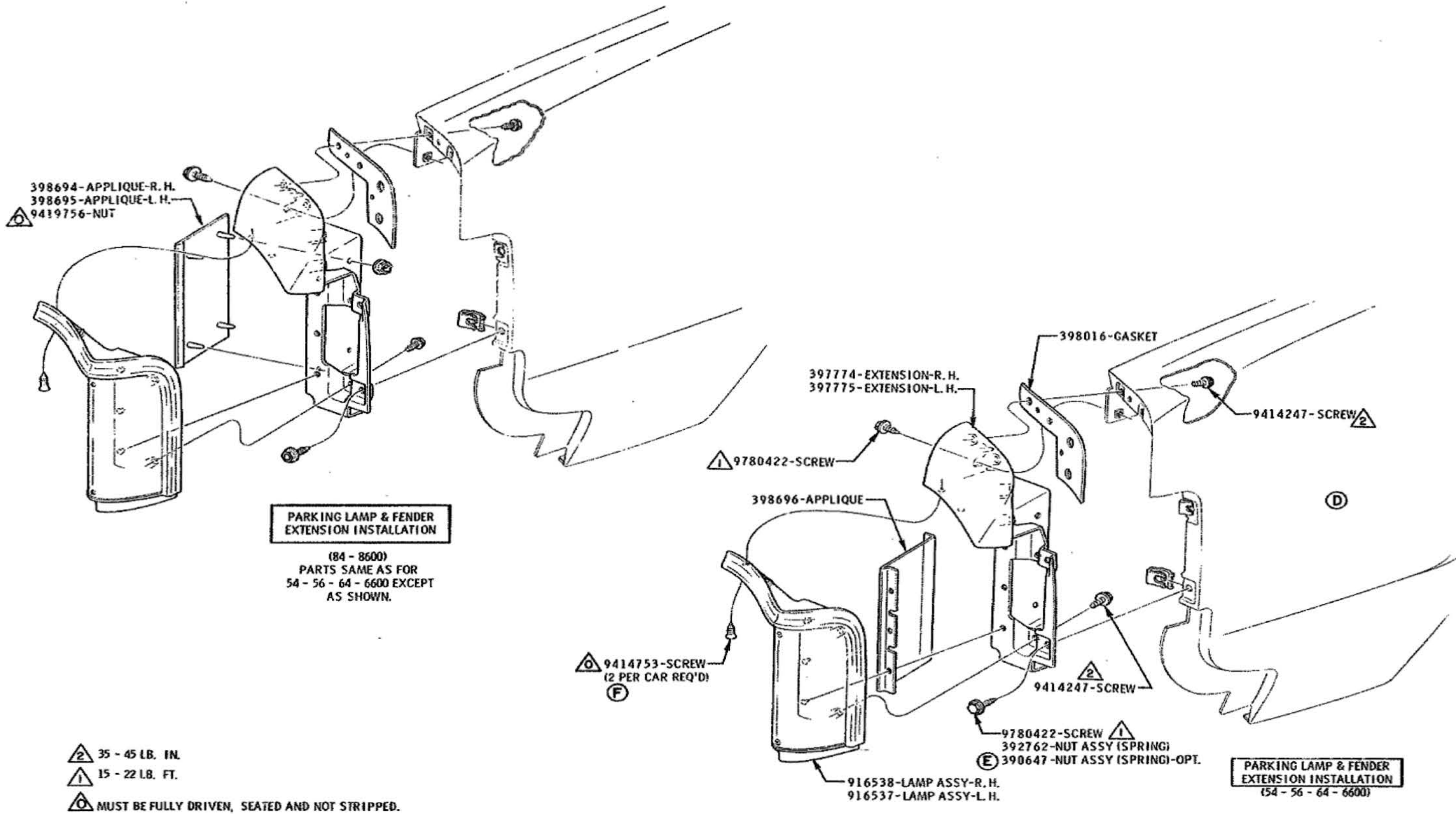
DATE JAN. 20, 1967

DR. BY GOODWIN

CHECKED JES

APPR. L. E. Malincha

FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
1968		11	131
REF. 35A93	SERIES B-C	PART NO.	398163
35C60-61			



**PARKING LAMP & FENDER
EXTENSION INSTALLATION**

(84 - 8600)
PARTS SAME AS FOR
54 - 56 - 64 - 6600 EXCEPT
AS SHOWN.

**PARKING LAMP & FENDER
EXTENSION INSTALLATION**
(54 - 56 - 64 - 6600)

- 2 35 - 45 LB. IN.
- 1 15 - 22 LB. FT.
- O MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					11-30-67	E	OPTIONAL NUT REMOVED			11-30-67	DT					PARKING LAMP - FENDER EXTENSION	1968		11	133
					7-25-67	D	GASKET REMOVED			7-25-67	DT					DATE JAN. 20, 1967				
					7-11-67	C	REVISED TO DETAIL			7-11-67	DT					DR. BY G. CARROLL				
					6-27-67	B	TORQUE ADDED			6-27-67	DT					CHECKED J. H. J.				
					12-14-67	F	QUANTITY REVISED			12-14-67	DT					APPR.				
					DT 6-21-67	A	PART NUMBER ADDED			DT 6-21-67	DT					REF. 11-12		SERIES B-C	PART NO. 398163	

HEADLAMP AIMING SPECIFICATION (INCLUDING EXPORT)

1. HEADLAMP AIM TO BE SET WITH MECHANICAL AIMER THAT CONFORMS TO SAE J602.
2. AIMERS MUST BE CALIBRATED TO READ 0' U/D AND 0' R/L WHEN AIMING PLANES ARE IN TRUE VERTICAL AND HORIZONTAL ALIGNMENT.
- ① 3. VEHICLE TO BE CURB WEIGHT LESS 1/2 TANK OF GASOLINE OR EQUIVALENT.

PRODUCTION SETTING

<u>HEADLAMP TYPE</u>	<u>VERTICAL AIM</u>	<u>HORIZONTAL AIM</u>
#1 AND #2	1.0' UP★	0' R/L

★ VERTICAL AIM SPECIFICATION TO BE MODIFIED AS REQUIRED TO COMPENSATE TO ONE-HALF FUEL TANK LOAD AND OTHER BUILD CONDITIONS.

CHECKING LIMITS

<u>HEADLAMP TYPE</u>	<u>VERTICAL AIM</u>	<u>HORIZONTAL AIM</u>
#1 AND #2	1.0' UP ± 4.0'	0' R/L ± 5 1/2"

SERVICE SETTING

CHECK AND SET TO SAE J599A, STATE OR LOCAL SPECIFICATIONS AS REQUIRED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	CHART - HEADLAMP AIM	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.	
																DATE MARCH 6, 1967	1968	1968	12	105				
					5-368	D	LINE REVISED	KL	JT							DR. BY R. STANLAKE								
					1-22-68	C	REVISED	KL	JT							CHECKED J. AMES								
					10-5-67	B	REVISED	GG	JT							APPR.								
																						ABCE	400786	

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

W. GARDNER, INC. 48724

SWITCH	LOCATION	ACTIVATED BY	RESULT OF ACTIVATING SWITCH	SWITCH IS DEACTIVATED BY	QUALIFYING CONDITIONS	NOTES
UNDERHOOD LAMP SWITCH	INTEGRAL WITH LAMP UNDER HOOD	RAISING HOOD	UNDERHOOD LAMP COMES ON	CLOSING HOOD	HEADLAMP SWITCH MUST BE PULLED TO EITHER DETENT	
BRAKE WARNING SWITCH	TOP OF L.H. FRAME SIDE RAIL NEAR MASTER CYLINDER	A PRESSURE DIFFERENTIAL BETWEEN THE FRONT & REAR BRAKE SYSTEMS	BRAKE WARNING LIGHT IN INSTRUMENT PANEL COMES ON	EQUALIZING PRESSURE IN BOTH BRAKE SYSTEMS	IGNITION SWITCH MUST BE IN "ON" OR "START" POSITION	
ENGINE OIL PRESSURE SWITCH	FRONT OF ENGINE BLOCK L.H. SIDE	4 P.S.I. OF ENGINE OIL PRESSURE	OIL WARNING LIGHT IN INSTRUMENT PANEL GOES "OFF"	ENGINE OIL PRESSURE OF LESS THAN 4 P.S.I.	IGNITION SWITCH MUST BE IN "ON" OR "START" POSITION	
ENGINE COOLANT TEMPERATURE SWITCH	TOP FRONT OF INTAKE MANIFOLD R.H. SIDE	110° F. TEMP. OF ENGINE COOLANT	COLD (GREEN) LIGHT IN INSTRUMENT CLUSTER GOES "OFF"	ENGINE COOLANT TEMP. OF LESS THAN 110° F.	IGNITION SWITCH MUST BE IN "ON" OR "START" POSITION	
		248° F. TEMP. OF ENGINE COOLANT	HOT (RED) WARNING LIGHT IN INSTRUMENT CLUSTER GOES "ON"	ENGINE COOLANT TEMP. OF LESS THAN 248° F.		
LIGHT SWITCH	L.H. SIDE OF INSTRUMENT PANEL CONTROL PANEL	PULLING KNOB OUT TO FIRST DETENT POSITION	THE FOLLOWING LAMPS COME ON : 1. PARK LAMPS 2. SIDE MARKER LAMPS (ALL 4) 3. CLUSTER LAMPS 4. CLOCK LAMP 5. ASH TRAY LAMPS 6. SHIFT INDICATOR LAMP 7. HEATER OR A/C CONTROL LAMP 8. TAIL LAMPS 9. LICENSE LAMPS	PUSHING SWITCH KNOB IN UNTIL IT STOPS	NONE	1. ASH TRAY, TELL TALE & IGNITION SWITCH ARE ILLUMINATED BY FIBER OPTICS FROM ASH TRAY LAMP
		PULLING KNOB OUT TO SECOND DETENT POSITION (ALL THE WAY OUT)	ALL OF THE LIGHTS THAT ARE ON WHEN SWITCH IS IN FIRST DETENT POSITION STAY ON PLUS THE FOLLOWING COME ON : 1. HEADLAMPS (HIGH OR LOW BEAM)			
		TURNING KNOB CLOCKWISE	1. INTENSITY OF INSTRUMENT PANEL LIGHTS DECREASES 2. DOME LAMPS SHUT OFF. (IF KNOB WAS TURNED COMPLETELY COUNTER-CLOCKWISE TO START.)			
		TURNING KNOB COUNTERCLOCKWISE	1. INTENSITY OF INSTRUMENT PANEL LIGHTS INCREASES 2. DOME LAMPS COME ON. (AT EXTREME END OF TRAVEL) NOTE : REAR COMPARTMENT LAMPS ALSO COME ON FOR A 38669 SERIES CAR.			
WINDSHIELD WIPER SWITCH	INBOARD OF INSTRUMENT PANEL SWITCH	TURNING KNOB TO FIRST DETENT (CLOCKWISE)	WINDSHIELD WIPERS OPERATE AT LOW SPEED	TURNING KNOB COUNTERCLOCKWISE UNTIL IT STOPS	IGNITION SWITCH MUST BE IN THE "ON" OR "ACCESSORY" POSITION	
		TURNING KNOB TO SECOND DETENT (CLOCKWISE)	WINDSHIELD WIPERS OPERATE AT HIGH SPEED			
WINDSHIELD WASHER SWITCH	PART OF WINDSHIELD WIPER SWITCH	PUSHING BUTTON IN WIPER SWITCH KNOB	WINDSHIELD WASHERS OPERATE	CYCLE IS PREDETERMINED AND WASHERS SHUT OFF AUTOMATICALLY	IGNITION SWITCH MUST BE IN THE "ON" OR "ACCESSORY" POSITION	
POWER ANTENNA SWITCH	INBOARD OF WINDSHIELD WIPER SWITCH	PUSHING "UP" SIDE OF SWITCH	ANTENNA RAISES	SWITCH MUST BE HELD IN EITHER "UP" OR "DOWN" POSITION. SPRING LOADING BRINGS SWITCH TO NEUTRAL POSITION.	IGNITION SWITCH MUST BE IN THE "ON" OR "ACCESSORY" POSITION	
		PUSHING "DOWN" SIDE OF SWITCH	ANTENNA LOWERS			

SHEET 1 OF 4

												TITLE CHART-ELECTRICAL SWITCH OPERATION					
												DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	
												JUNE 20, 1967	1968		12	106	
												DR. BY	CHECKED	APPR.	REF.	SERIES	PART NO.
												J. E. CASLER	J. Fries			B-C	401561
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

E. CARROLL INC. 48275

SWITCH	LOCATION	ACTIVATED BY	RESULT OF ACTIVATING SWITCH	SWITCH IS DEACTIVATED BY	QUALIFYING CONDITIONS	NOTES
REAR WINDOW DEFOGGER SWITCH	SAME AREA AS POWER ANTENNA SWITCH	POSITIONING SWITCH TO "HI" POSITION	REAR WINDOW DEFOGGER OPERATES WITH HIGH BLOWER	POSITIONING SWITCH INTO "OFF" POSITION.	IGNITION SWITCH MUST BE IN THE "ON" OR "ACCESSORY" POSITION	
		POSITIONING SWITCH TO "LO" POSITION	REAR WINDOW DEFOGGER OPERATES WITH LOW BLOWER			
POWER TOP SWITCH (CONVERTIBLES)	SAME AREA AS POWER ANTENNA & DEFOGGER SWITCH	PUSHING "UP" SIDE OF SWITCH	CONVERTIBLE TOP COMES "UP" (ENCLOSING CAR)	SWITCH MUST BE HELD IN EITHER "UP" OR "DOWN" POSITION. SPRING LOADING BRINGS SWITCH TO NEUTRAL POSITION.	NONE	
		PUSHING "DOWN" SIDE OF SWITCH	CONVERTIBLE TOP GOES DOWN			
TURN SIGNAL SWITCH	TOP OF STEERING COLUMN (LEVER ON L.H. SIDE)	POSITIONING SWITCH LEVER UP (CLOCKWISE)	R.H. FRONT & REAR TURN SIGNAL LAMPS & R.H. TELL TALE LAMP IN INSTRUMENT PANEL COME ON AND FLASH.	SWITCH SHUTS OFF WHEN STEERING WHEEL RETURNS FROM TURNED POSITION.	IGNITION SWITCH MUST BE IN THE "ON" OR "ACCESSORY" POSITION	
		POSITIONING SWITCH LEVER DOWN (COUNTERCLOCKWISE)	L.H. FRONT & REAR TURN SIGNAL LAMPS & L.H. TELL TALE LAMP IN INSTRUMENT PANEL COME ON AND FLASH.			
CORNERING LAMP SWITCH	INTEGRAL WITH TURN SIGNAL SWITCH	POSITIONING SWITCH LEVER UP (CLOCKWISE)	R.H. CORNERING LAMP COMES ON	SWITCH SHUTS OFF WHEN STEERING WHEEL RETURNS FROM TURNED POSITION	HEADLAMP SWITCH MUST BE PULLED TO EITHER DETENT.	
		POSITIONING SWITCH LEVER DOWN (COUNTERCLOCKWISE)	L.H. CORNERING LAMP COMES ON			
HAZARD WARNING SWITCH	TOP OF STEERING COLUMN (BUTTON ON R.H. SIDE)	POSITIONING BUTTON IN (TOWARD CENTERLINE OF COLUMN)	TURN SIGNAL LAMPS ON BOTH SIDES, FRONT AND REAR FLASH.	TURNING STEERING WHEEL OR PULLING KNOB OUT	NONE	ALL FOUR LIGHTS STOP FLASHING WHEN BRAKE PEDAL IS PUSHED. (LIGHTS STAY ON)
NEUTRAL SAFETY SWITCH	ON STEERING COLUMN UNDER INSTRUMENT PANEL (A.T. ONLY)	MOVING SHIFT LEVER TO NEUTRAL OR PARK DETENT	STARTING CIRCUIT CAN BE ENERGIZED	MOVING SHIFT LEVER TO ANY POSITION BUT NEUTRAL & PARK DETENT.	NONE	MUST BE ADJUSTED BY ASSEMBLY PLANTS
BACK-UP LAMP SWITCH	S.M.T. - ON STEERING COLUMN UNDER INSTRUMENT PANEL (SEPARATE SWITCH) A.T. - INTEGRAL WITH NEUTRAL SAFETY SWITCH.	MOVING SHIFT LEVER TO THE REVERSE POSITION	BACK-UP LAMPS COME ON	MOVING SHIFT LEVER TO ANY POSITION OTHER THAN REVERSE	IGNITION SWITCH MUST BE IN THE "ON" POSITION	A.T. CAR SWITCHES ARE ADJUSTED WHEN NEUTRAL SAFETY SWITCH IS ADJUSTED.
HORN BUTTON	(2) IN STEERING WHEEL SHROUDS	PUSHING BUTTON IN	HORNS BLOW	BUTTON MUST BE HELD IN. SPRING PRESSURE RELEASES.	NONE	(A) SEE SHEET 4 FOR T & T HORN BUTTON
HEADLAMP FOOT DIMMER SWITCH	L.H. SIDE OF TOE PAN	DEPRESSING PLUNGER THE FULL LENGTH OF TRAVEL (SWITCH CLICKS)	NUMBER OF HEADLAMPS ON CHANGES (TWO TO FOUR OR FOUR TO TWO)	RELEASING PLUNGER. SPRING PRESSURE RETURNS SWITCH.	NONE	
STOP LAMP SWITCH	ON BRAKE PEDAL BRACKET ASSY (HAS ITS OWN BRACKET).	PUSHING ON THE BRAKE PEDAL.	STOP LAMPS COME ON	RELEASING BRAKE PEDAL. SPRING PRESSURE RETURNS BRAKE PEDAL.	NONE	MUST BE ADJUSTED BY ASSEMBLY PLANTS (SELF ADJUSTING)
CRUISE CONTROL DISENGAGE SWITCH	INTEGRAL WITH STOP LAMP SWITCH	PUSHING ON THE BRAKE PEDAL	CRUISE CONTROL IS DISENGAGED	RELEASING BRAKE PEDAL. SPRING PRESSURE RETURNS BRAKE PEDAL.	CRUISE CONTROL MUST BE OPERATING	FOR COMPLETE INFORMATION ON CRUISE CONTROL OPERATION SEE P. I.M. PAGE 0.350
TRANSMISSION DOWNSHIFT SWITCH (A.T. ONLY)	INSIDE OF FIREWALL ADJACENT TO THROTTLE LEVER	PUSHING ACCELERATOR PEDAL TO ITS STOP	TRANSMISSION DOWNSHIFTS	RELEASING THE ACCELERATOR PEDAL. SPRING PRESSURE RETURNS PEDAL.	IGNITION SWITCH MUST BE IN THE "ON" POSITION	MUST BE ADJUSTED BY ASSEMBLY PLANTS

SHEET 2

TITLE												CHART-ELECTRICAL SWITCH OPERATION									
DATE						JUNE 20, 1967						FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC.		PAGE	
DR. BY						J.E. CASLER										12		107			
CHECKED						J. Flowers						REF.		SERIES		B-C		PART NO.		401561	
APPR.						KL/DW															
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.						

10-6-67 H NOTE FILED

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

N. CANNON, INC. 4974

SWITCH	LOCATION	ACTIVATED BY	RESULT OF ACTIVATING SWITCH	SWITCH IS DEACTIVATED BY	QUALIFYING CONDITIONS	NOTES
2 WAY POWER SEAT	LEFT FRONT DOOR ARM REST	PUSHING BUTTON FORWARD	FRONT SEAT MOVES FORWARD	RELEASING BUTTON. SPRING PRESSURE RETURNS BUTTON TO NEUTRAL POSITION & SEAT STOPS MOVING.	IGNITION SWITCH MUST BE IN "ON" OR "ACCESSORY" POSITION	
		PUSHING BUTTON REARWARD	FRONT SEAT MOVES REARWARD			
4 WAY POWER SEAT	LEFT SIDE OF LEFT FRONT SEAT IN SIDE TRIM PANEL	PUSHING BUTTON FORWARD	L.F. SEAT MOVES FORWARD	RELEASING BUTTON. SPRING PRESSURE RETURNS BUTTON TO NEUTRAL POSITION & SEAT STOPS MOVING.	IGNITION SWITCH MUST BE IN "ON" OR "ACCESSORY" POSITION	AVAILABLE ON 36687 MODELS WITH BUCKET SEAT (A-51) ONLY
		PUSHING BUTTON REARWARD	L.F. SEAT MOVES REARWARD			
		PUSHING BUTTON UP	L.F. SEAT MOVES UP			
		PUSHING BUTTON DOWN	L.F. SEAT MOVES DOWN			
6 WAY POWER SEAT	L.H. SEAT SIDE PANEL FRONT SEAT, L.H. FRONT DOOR ARM REST.	PUSHING FRONT BUTTON UP (LEFT)	FRONT OF SEAT MOVES UP	RELEASING BUTTON. SPRING PRESSURE RETURNS BUTTON TO NEUTRAL POSITION & SEAT STOPS MOVING.	IGNITION SWITCH MUST BE IN "ON" OR "ACCESSORY" POSITION	
		PUSHING FRONT BUTTON DOWN (RIGHT)	FRONT OF SEAT MOVES DOWN			
		PUSHING CENTER BUTTON FORWARD OR UP	SEAT MOVES FORWARD OR UP			
		PUSHING CENTER BUTTON REARWARD OR DOWN	SEAT MOVES REARWARD OR DOWN			
		PUSHING REAR BUTTON UP (LEFT)	REAR OF SEAT MOVES UP			
		PUSHING REAR BUTTON DOWN (RIGHT)	REAR OF SEAT MOVES DOWN			
TRUNK LAMP SWITCH	INTEGRAL WITH TRUNK LAMP	RAISING DECK LID	TRUNK LAMP COMES ON	CLOSING DECK LID	NONE	
IGNITION SWITCH	ON INSTRUMENT PANEL-R.H. SIDE OF STEERING COLUMN	INSERTING KEY & TURNING CLOCKWISE TO "ON" POSITION	1. IGNITION CIRCUIT IS ENERGIZED 2. GENERATOR WARNING LIGHT ON INSTRUMENT PANEL COMES ON 3. CIRCUITS MENTIONED IN "QUALIFYING CONDITIONS" COLUMN ARE ENERGIZED 4. OIL PRESSURE LIGHT COMES ON 5. COLD LIGHT (ENGINE UNDER 110° F.)	TURNING KEY COUNTERCLOCKWISE TO "OFF" POSITION	NONE	A WARNING SYSTEM OPERATES OFF THE IGNITION SWITCH AND LEFT FRONT DOOR JAMB SWITCH. WHENEVER THE KEY IS FULLY ENGAGED IN THE LOCK AND THE IGNITION SWITCH IS IN THE "ACCESSORY" AND "OFF" POSITION A WARNING BUZZER SOUNDS WHEN THE LEFT FRONT DOOR IS OPENED.
		INSERTING KEY & TURNING CLOCKWISE TO "START" POSITION	1. STARTING CIRCUIT IS ENERGIZED 2. GENERATOR WARNING LIGHT ON INSTRUMENT PANEL COMES ON 3. ENGINE TEMP. "HOT" (RED) WARNING LIGHT COMES ON 4. OIL PRESSURE LIGHT COMES ON 5. COLD LIGHT COMES ON (ENGINE UNDER 110° F.)	RELEASING KEY. SPRING PRESSURE TURNS SWITCH COUNTERCLOCKWISE TO "ON" POSITION.		
		INSERTING KEY, PUSHING SWITCH FORWARD (IN) AND TURNING COUNTERCLOCKWISE TO "ACCESSORY" POSITION	1. CIRCUITS MENTIONED IN "QUALIFYING CONDITIONS" COLUMN ARE ENERGIZED	TURNING KEY CLOCKWISE TO "OFF" POSITION		
^(A) HORN BUTTON T & T WHEEL	AROUND ENTIRE RIM OF STEERING WHEEL	PUSHING BUTTON IN	HORNS BLOW	BUTTON MUST BE HELD IN. SPRING PRESSURE RELEASES.	NONE	

SHEET 4

										TITLE		CHART-ELECTRICAL SWITCH OPERATION							
										DATE <i>JUNE 20, 1967</i>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
										DR. BY <i>J.E. CASLER</i>		1968		INFORMATION MANUAL		12		109	
										CHECKED <i>J. Flores</i>		REF.		SERIES		PART NO.			
										APPR. <i>K.L. [Signature]</i>				B-C		401561			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

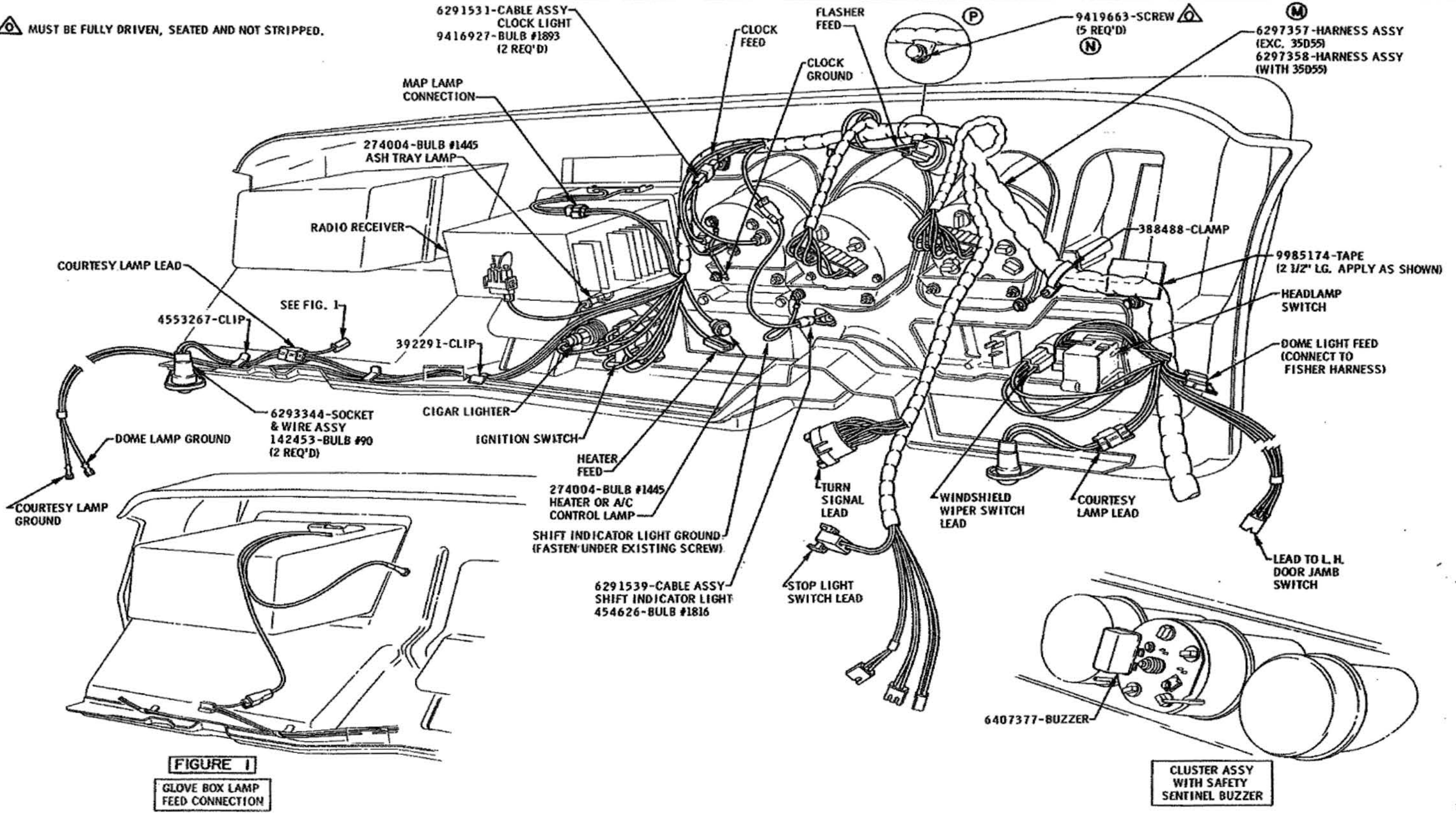
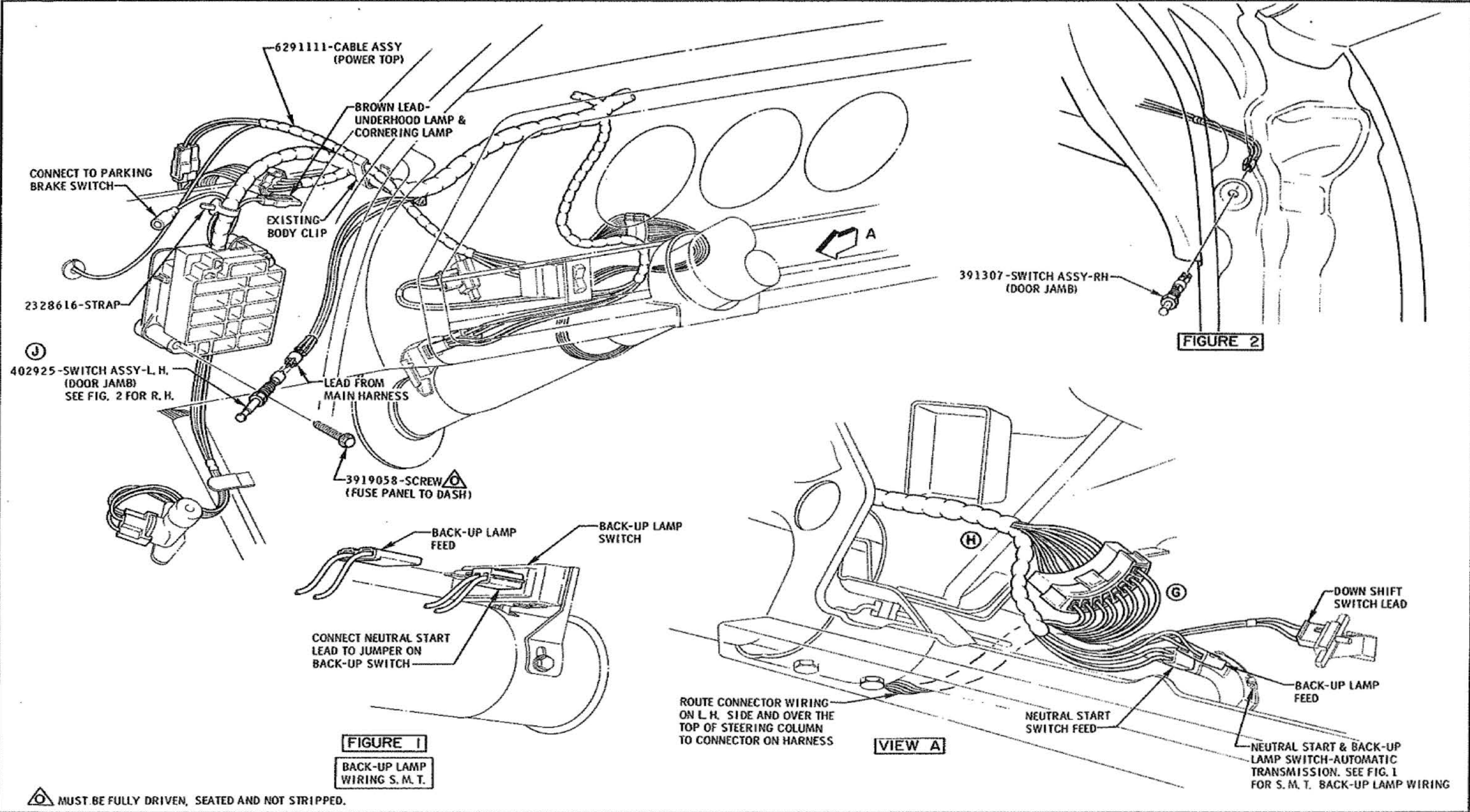


FIGURE 1
GLOVE BOX LAMP
FEED CONNECTION

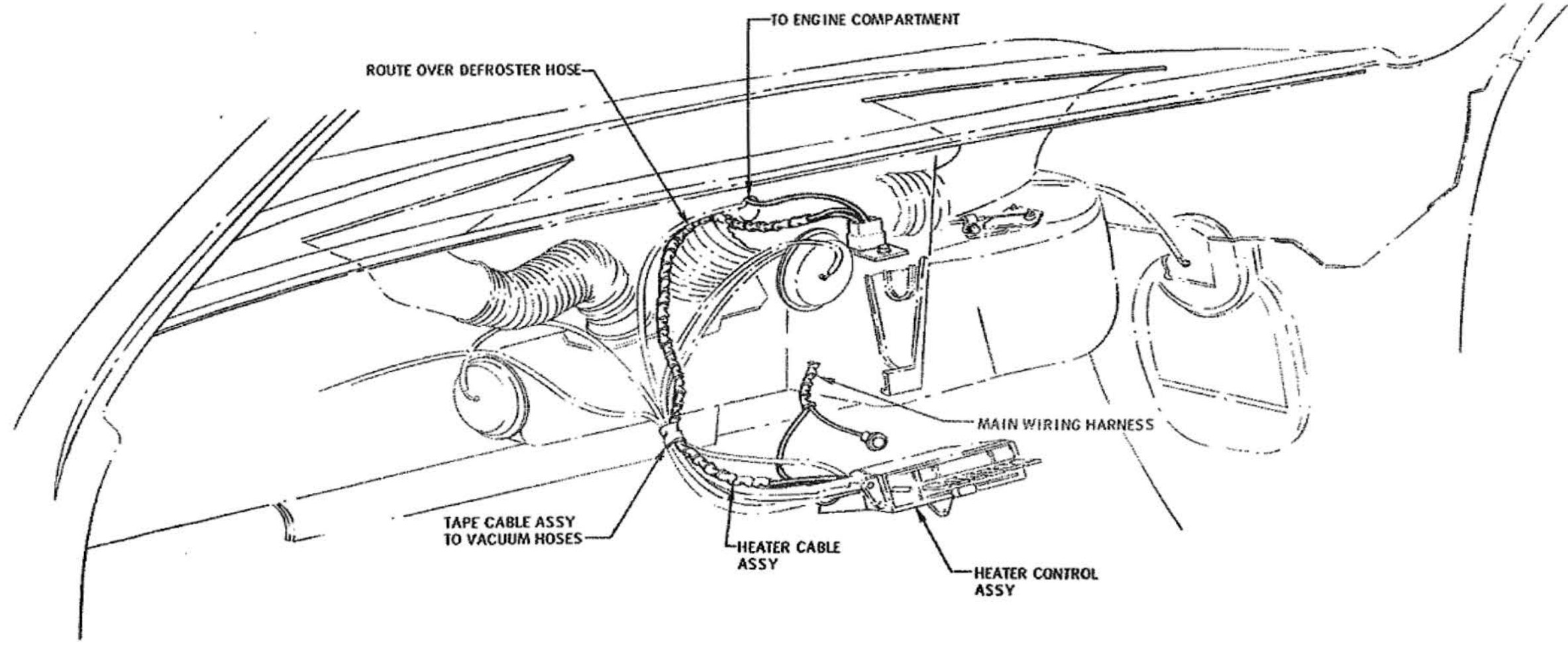
**CLUSTER ASSY
WITH SAFETY
SENTINEL BUZZER**

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE								
1-25-68	P	ROUTING REVISED	R	DT	12-18-67	J	QUANTITY REVISED	DT	B-4-67	D	CODES ADDED	PL	DT																				
1-3-68	N	QUANTITY REVISED	DT	DT	12-18-67	H	388488 CLAMP ADDED	DT	7-17-67	C	WAS 6295501-6295502 HARN	DT	DT																				
1-3-68	M	HARNES ADS REVISED	DT	DT	12-18-67	G	TAPE ADDED	DT	7-14-67	B	REVISED TO DETAIL	DT	DT																				
1-3-68	L	WIRING REVISED	DT	DT	12-18-67	F	HARNES DURING REV'D	DT	4-18-67	A	NOTE ADDED	DT	DT																				
																					MAIN WIRING HARNESS - INSTRUMENT PANEL					1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		12		110	
																					SERIES B-C		PART NO. 398163										

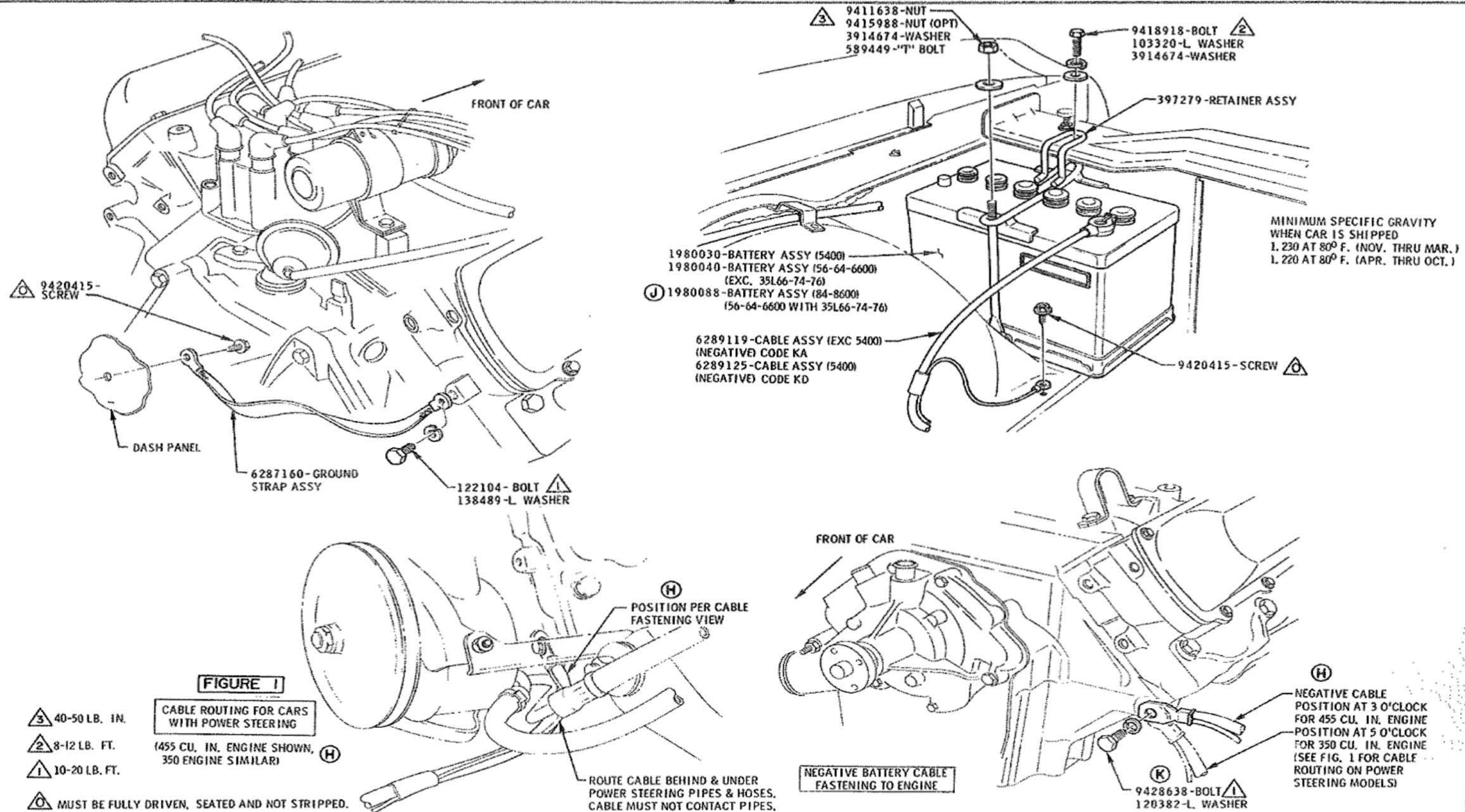


⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE		
					6-27-67	E	NOTE ADDED															
					1-5-68	J	WAS 7599159-SWITCH	DR	DT	6-27-67	D	NOTE REVISED					DATE	MAR. 21, 1967				
					11-17-67	H	2328616 STRAP REM'D	DR	DT	5-23-67	C	FIGURE 2 ADDED					DR. BY	GOODWIN				
					11-17-67	G	WIRING REVISED	DR	DT	5-23-67	B	7529159 SWITCH ADDED					CHECKED					
					9-27-67	F	TORQUE NOTE ADDED	PL	DT	4-3-67	A	STRAP NO. ADDED				APPR.						
																	MAIN HARNESS - INSTRUMENT PANEL					
																	REF.	12	SERIES	B-C	PART NO.	398163



										TITLE				1A2C WIRING (INSIDE)					
										DATE <i>MAR. 21, 1967</i>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
										DR. BY <i>D.C. WINTERBAUGH</i>		1968		INFORMATION MANUAL		12		115	
										CHECKED <i>F.S. WITTEMBERG</i>		REF.		SERIES		PART NO.			
										APPR. <i>J.P.S.</i>				B-C		398163			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.



MINIMUM SPECIFIC GRAVITY WHEN CAR IS SHIPPED
 1.230 AT 80° F. (NOV. THRU MAR.)
 1.220 AT 80° F. (APR. THRU OCT.)

FIGURE 1
CABLE ROUTING FOR CARS WITH POWER STEERING
 (455 CU. IN. ENGINE SHOWN, 350 ENGINE SIMILAR)

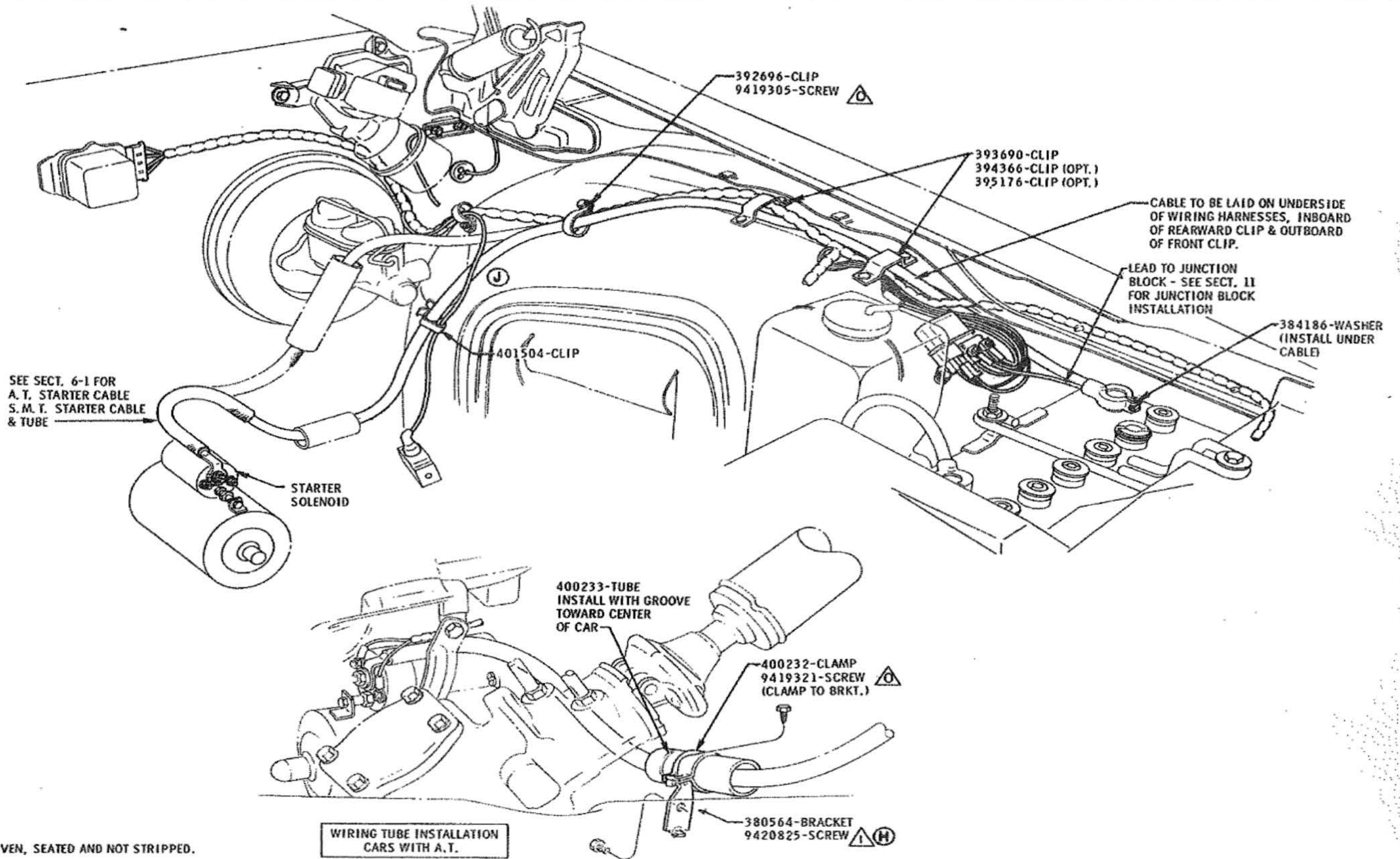
- △³ 40-50 LB. IN.
- △² 8-12 LB. FT.
- △¹ 10-20 LB. FT.
- △[○] MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

ROUTE CABLE BEHIND & UNDER POWER STEERING PIPES & HOSES. CABLE MUST NOT CONTACT PIPES.

NEGATIVE BATTERY CABLE FASTENING TO ENGINE

NEGATIVE CABLE POSITION AT 3 O'CLOCK FOR 455 CU. IN. ENGINE POSITION AT 5 O'CLOCK FOR 350 CU. IN. ENGINE (SEE FIG. 1 FOR CABLE ROUTING ON POWER STEERING MODELS)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					3-19-68	K	WAS 122104-BOLT	JM	DT	3-27-67	E	TORQUES ADDED	PL	DT		BATTERY & CABLE - ENGINE GROUND				
					2-12-68	J	PART NO. WAS 1980088			DT	8-9-67	D	NOTE REVISED		DT	DATE MAR. 29 1967	1968		12	131
					10-23-67	H	NOTES REVISED			DT	7-7-67	C	TORQUE SPEC. ADDED		J13	DR. BY DE J. H. MERRILL				
					10-14-67	G	FIG. 1 ADDED			DT	5-25-67	E	6Z85DZ SCREW DEL		DT	CHECKED J. H. MERRILL				
					10-14-67	F	TORQUE ADDED			DT	5-25-67	A	WAS 392528 WASHER		DT	APPR. J. H. MERRILL				
																REF.	SERIES B-C	PART NO. 398163		



SEE SECT. 6-1 FOR
A. T. STARTER CABLE
S. M. T. STARTER CABLE
& TUBE

STARTER
SOLENOID

400233-TUBE
INSTALL WITH GROOVE
TOWARD CENTER
OF CAR

400232-CLAMP
9419321-SCREW
(CLAMP TO BRKT.)

380564-BRACKET
9420825-SCREW

CABLE TO BE LAID ON UNDERSIDE
OF WIRING HARNESSSES, INBOARD
OF REARWARD CLIP & OUTBOARD
OF FRONT CLIP.

LEAD TO JUNCTION
BLOCK - SEE SECT. 11
FOR JUNCTION BLOCK
INSTALLATION

384186-WASHER
(INSTALL UNDER
CABLE)

WIRING TUBE INSTALLATION
CARS WITH A.T.

⚠ 120 - 180 LB. IN.

⊙ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					8-28-67	E	HARNES ROUTING REVISED	E	DT												
					9-4-67	D	CLAMP REPOSITIONED	E	DT												
					7-24-67	C	CLIP NUMBERS REVISED	E	DT												
					7-18-67	E	WIRING REVISED	E	DT												
					6-23-67	A	REVISED & REDRAWN	E	DT												

STARTER CABLE

DATE **MAR. 20, 1967**
 DR. BY **Goodwin**
 CHECKED **TJG**
 APPR. **W.C. Caperton**

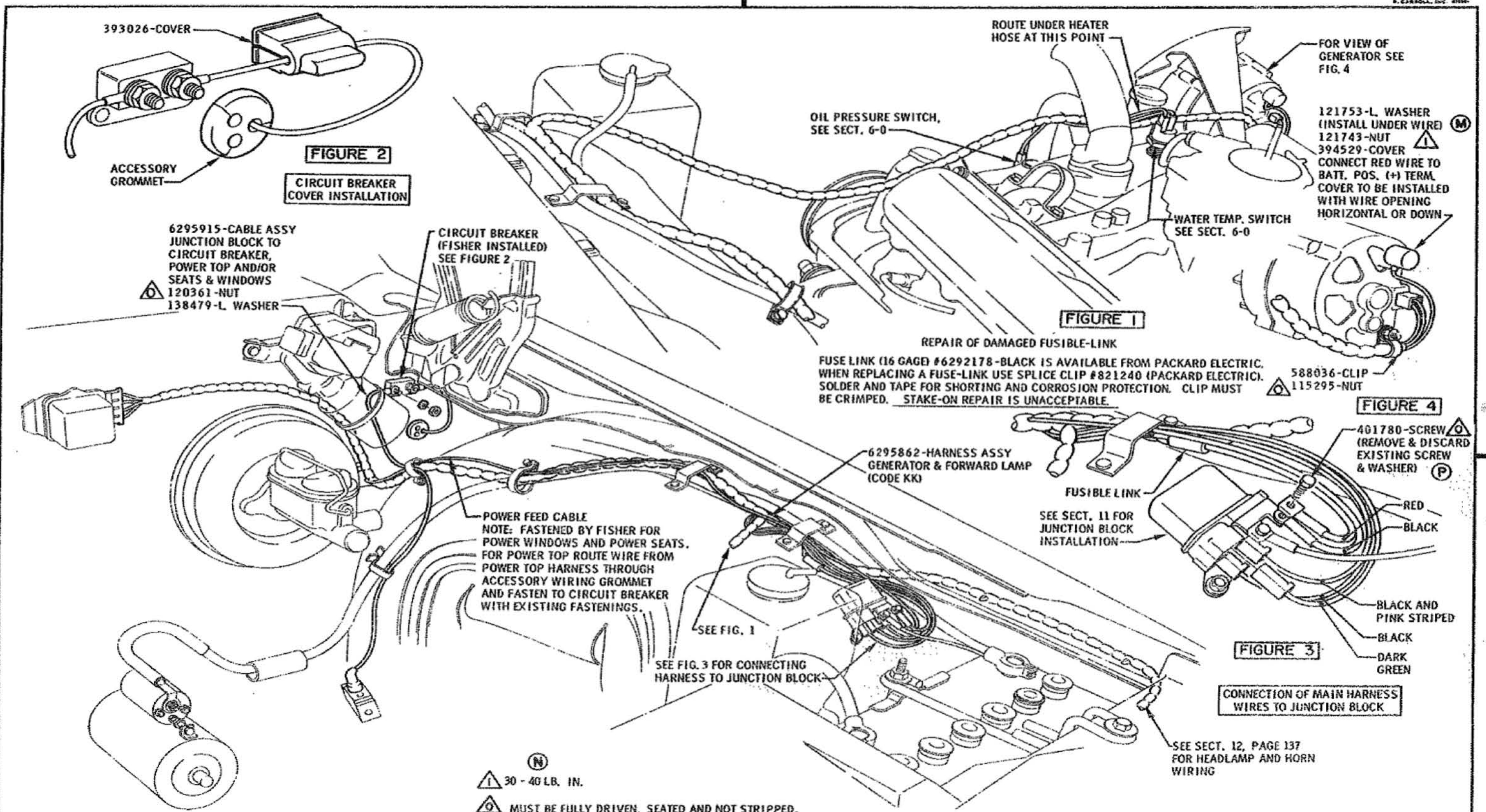
FIRST USED **1968**
 REF. **12A, 12H**

OLDSMOBILE PRODUCT INFORMATION MANUAL

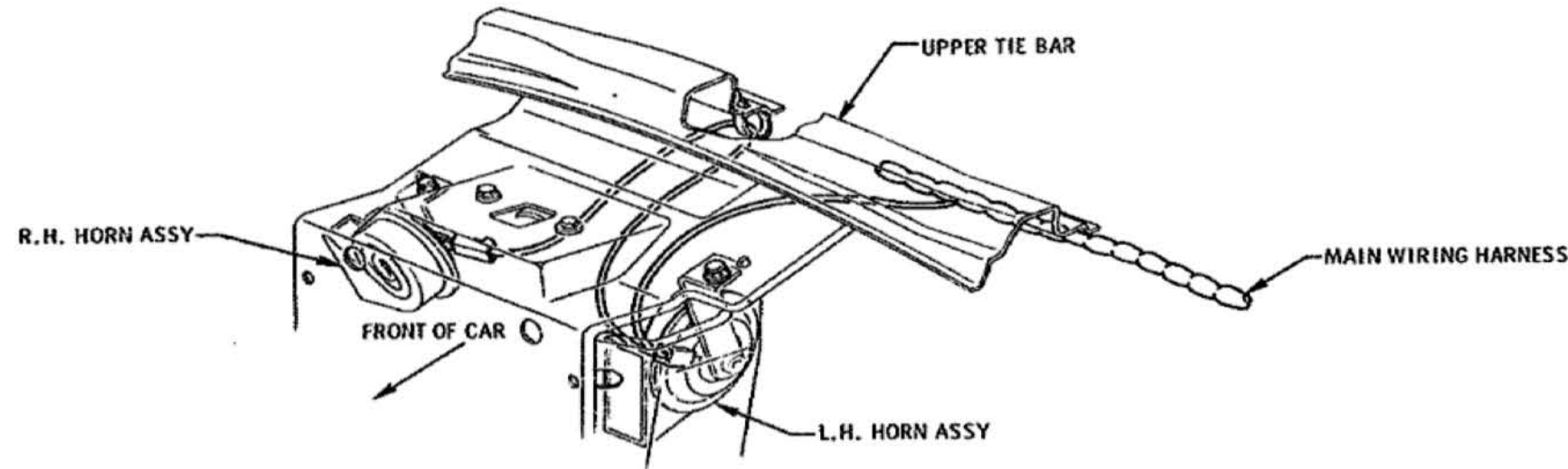
SERIES **B-C**

MANUAL SECTION **12**
 PART NO. **398163**

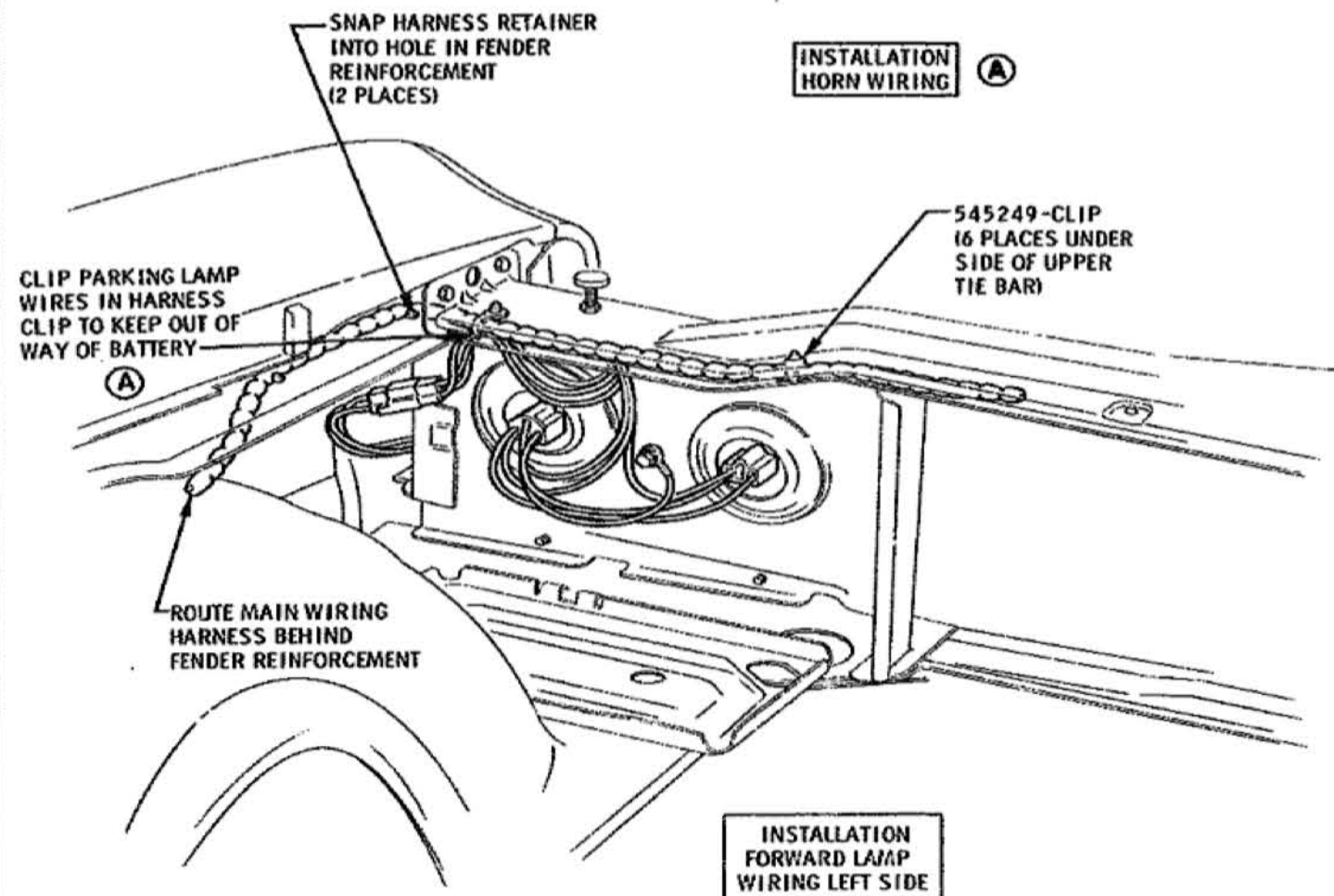
PAGE **132**



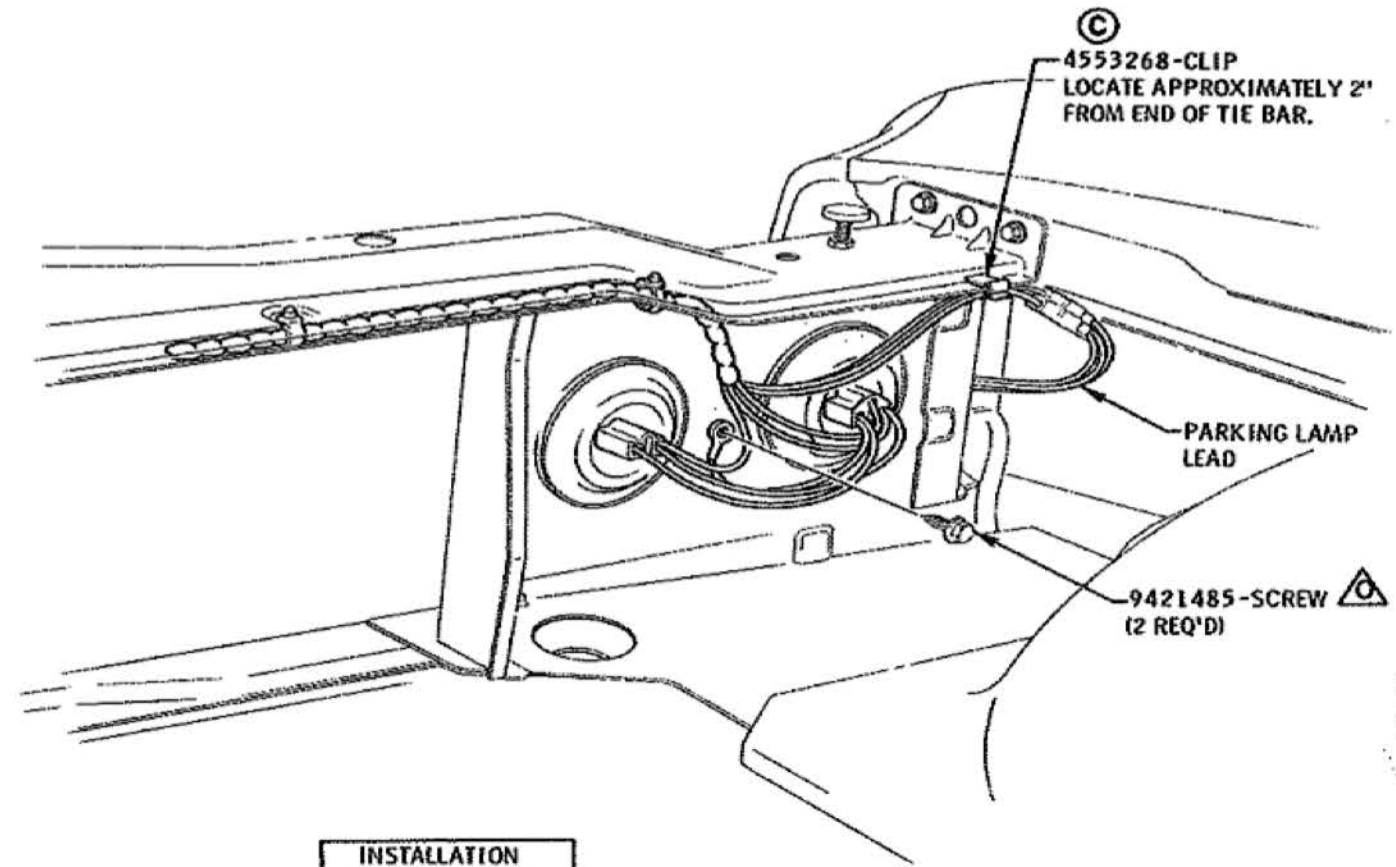
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
5-10-66	P	NOTE REVISED			1-5-68	K	NOTE ADDED			8-15-67	E	PART NUMBER ADDED			8-21-67	D	CODE ADDED				DATE	1968		12	134
3-11-68	N	TORQUE REVISED			9-5-67	++	HARNESS ROUTING REVISED			8-4-67	C	FIG. 4 ADDED			7-18-67	B	WIRING REVISED				DR. BY				
3-11-68	M	NOTE REVISED			8-20-67	G	HARNESS ROUTING REVISED			7-18-67	B	WIRING REVISED			7-7-67	A	REVISED & REDRAWN				CHECKED				
5-12-68	L	ROUTING REVISED			8-20-67	F	NOTE ADDED			7-7-67	A	REVISED & REDRAWN									APPR.				
																					REF.	SERIES	PART NO.		
																						B-C	398163		



INSTALLATION HORN WIRING (A)



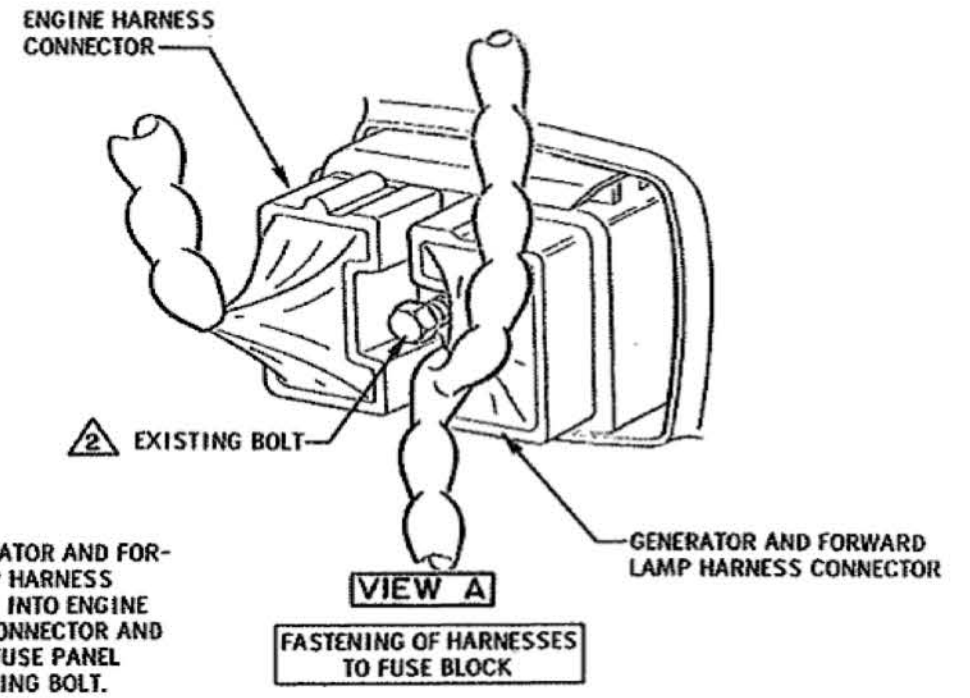
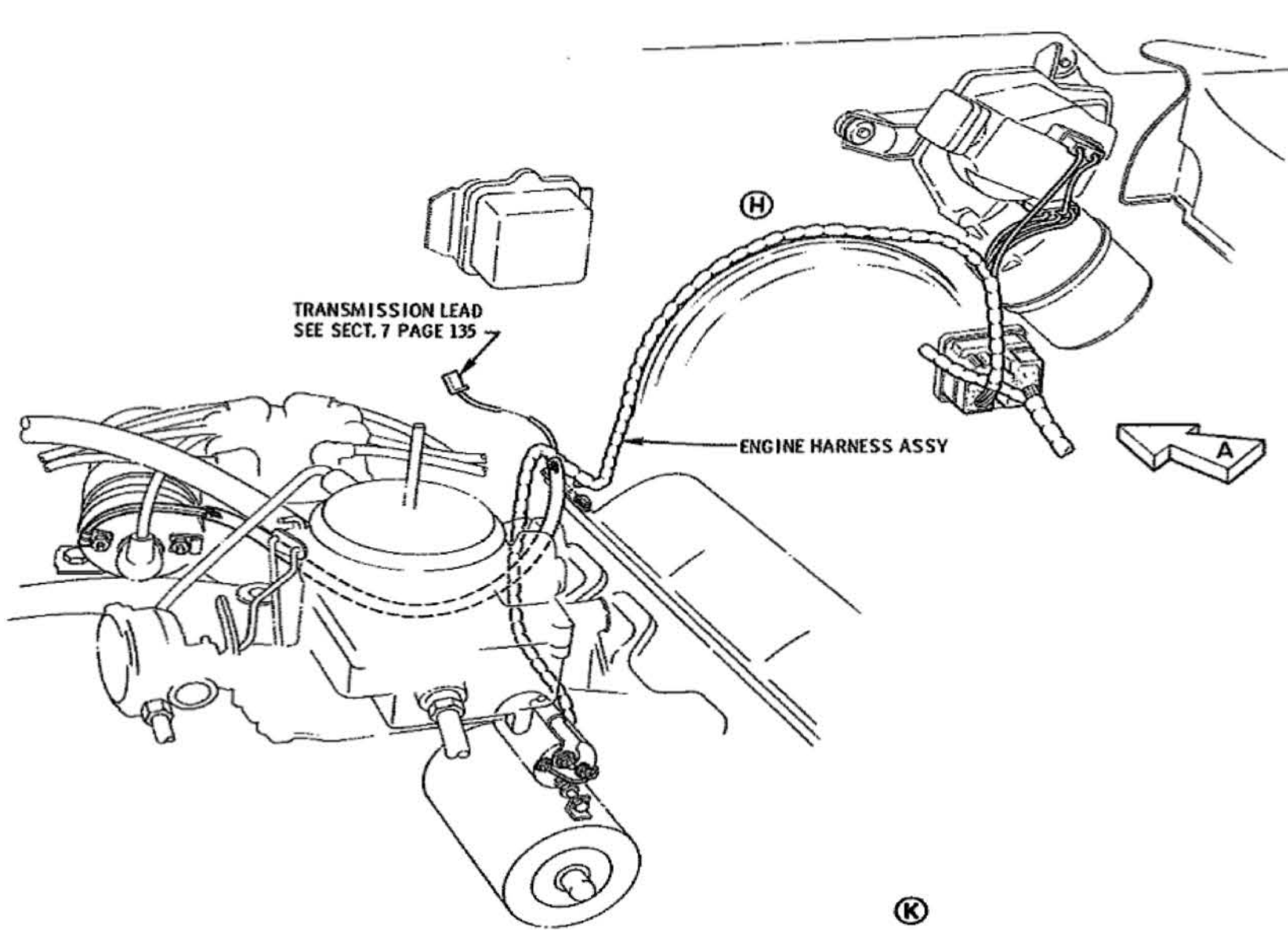
INSTALLATION FORWARD LAMP WIRING LEFT SIDE



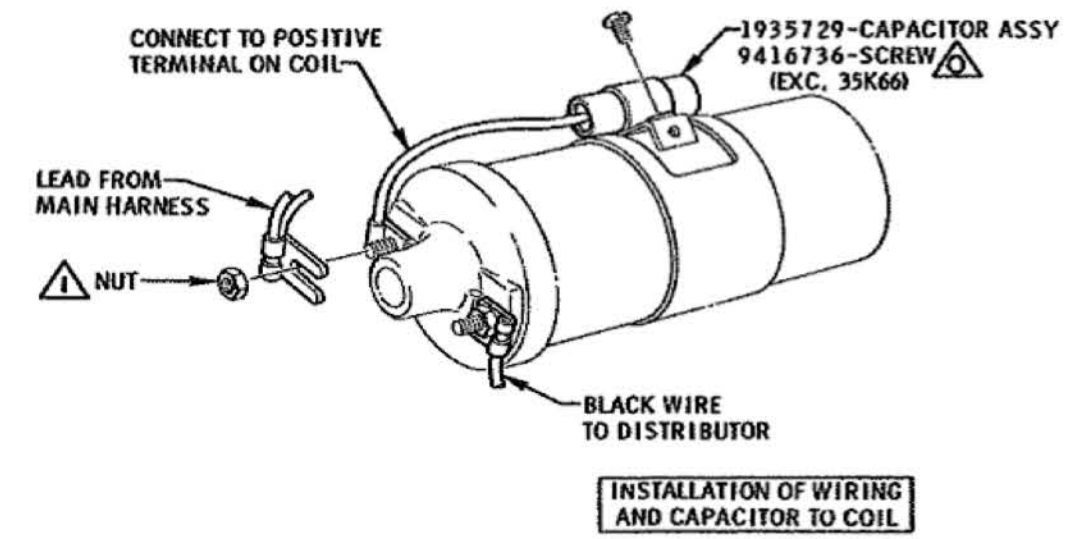
INSTALLATION FORWARD LAMP WIRING RIGHT SIDE

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

										TITLE		FORWARD LAMPS & HORN WIRING						
										DATE	MAR 21 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	12	PAGE	137
										DR.	BY	DR.	BY	CHECKED				
										11-17-67	C	PART NUMBERS ADDED	3/2	DT				
										9-27-67	B	TORQUE NOTE ADDED	PL	DT				
										6-29-67	A	WIDE ROUTINE REVISED	5	DT				
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	SERIES	PART NO.	
																B-C	398163	

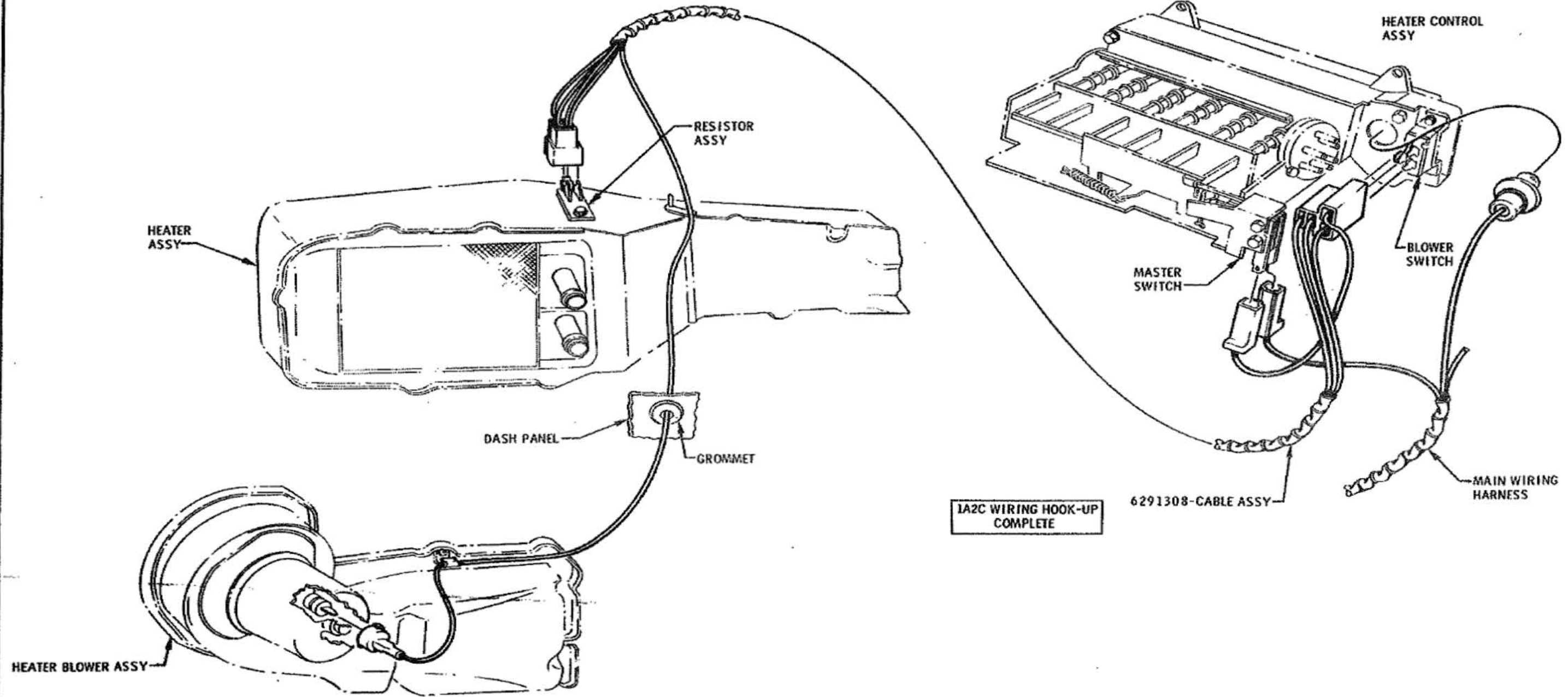


NOTE:
SLIP GENERATOR AND FORWARD LAMP HARNESS CONNECTOR INTO ENGINE HARNESS CONNECTOR AND FASTEN TO FUSE PANEL WITH EXISTING BOLT.

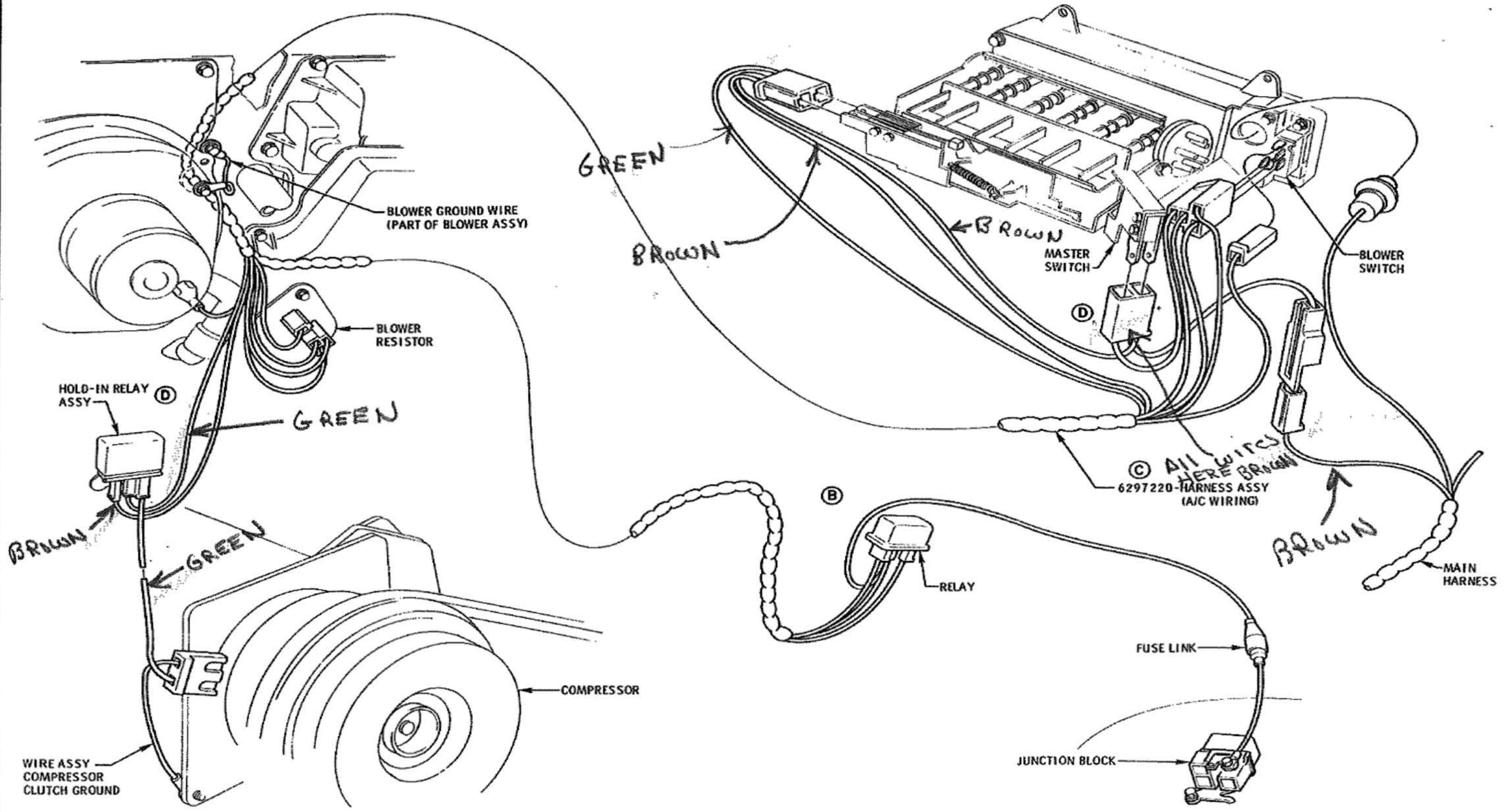


- 2 50 - 70 LB. IN.
- 1 15 - 20 LB. IN.
- 0 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED. J

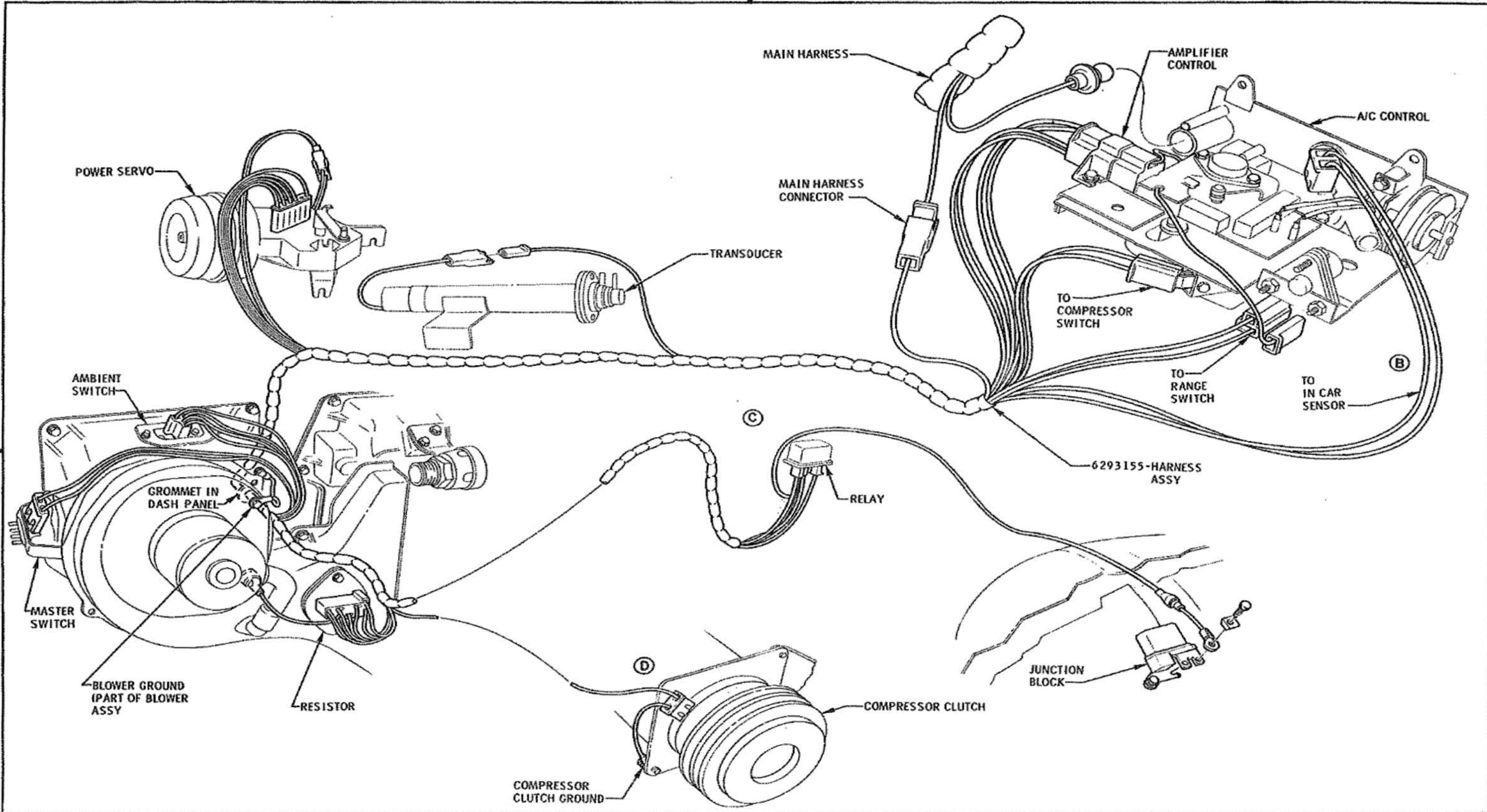
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					5-22-68	K	VIEW REMOVED	PL	DT	7-7-67	E	TORQUE SPEC. ADDED	J13	DT		MAIN HARNESS - ENGINE				
					9-27-67	J	TORQUE NOTE ADDED	PL	DT	6-22-67	D	NOTE REVISED		DT		DATE MAR. 21, 1967	1968		12	138
					8-31-67	H	ROUTING REVISED	PL	DT	6-16-67	C	VIEW ADDED		DT		DR. BY GOODWIN				
					8-22-67	G	ROUTING REVISED	PL	DT	6-16-67	B	VIEW A ADDED		DT		CHECKED <i>File</i>				
					8-2-67	F	TORQUE ADDED	PL	DT	4-21-67	A	PART NO. MOVED TO SEC. 6		DT		APPR. <i>H. H. Spantone</i>	REF. 12	SERIES B-C	PART NO. 398163	



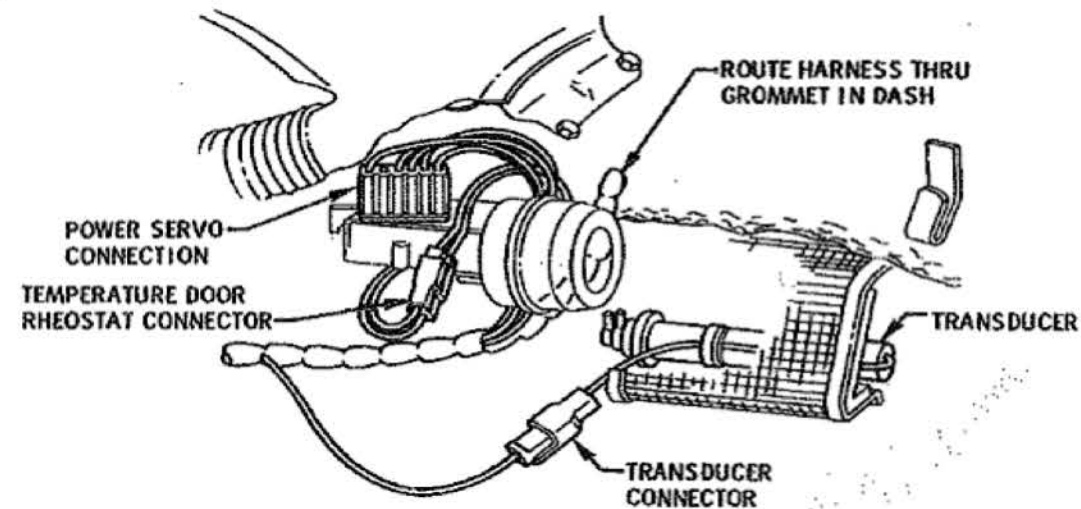
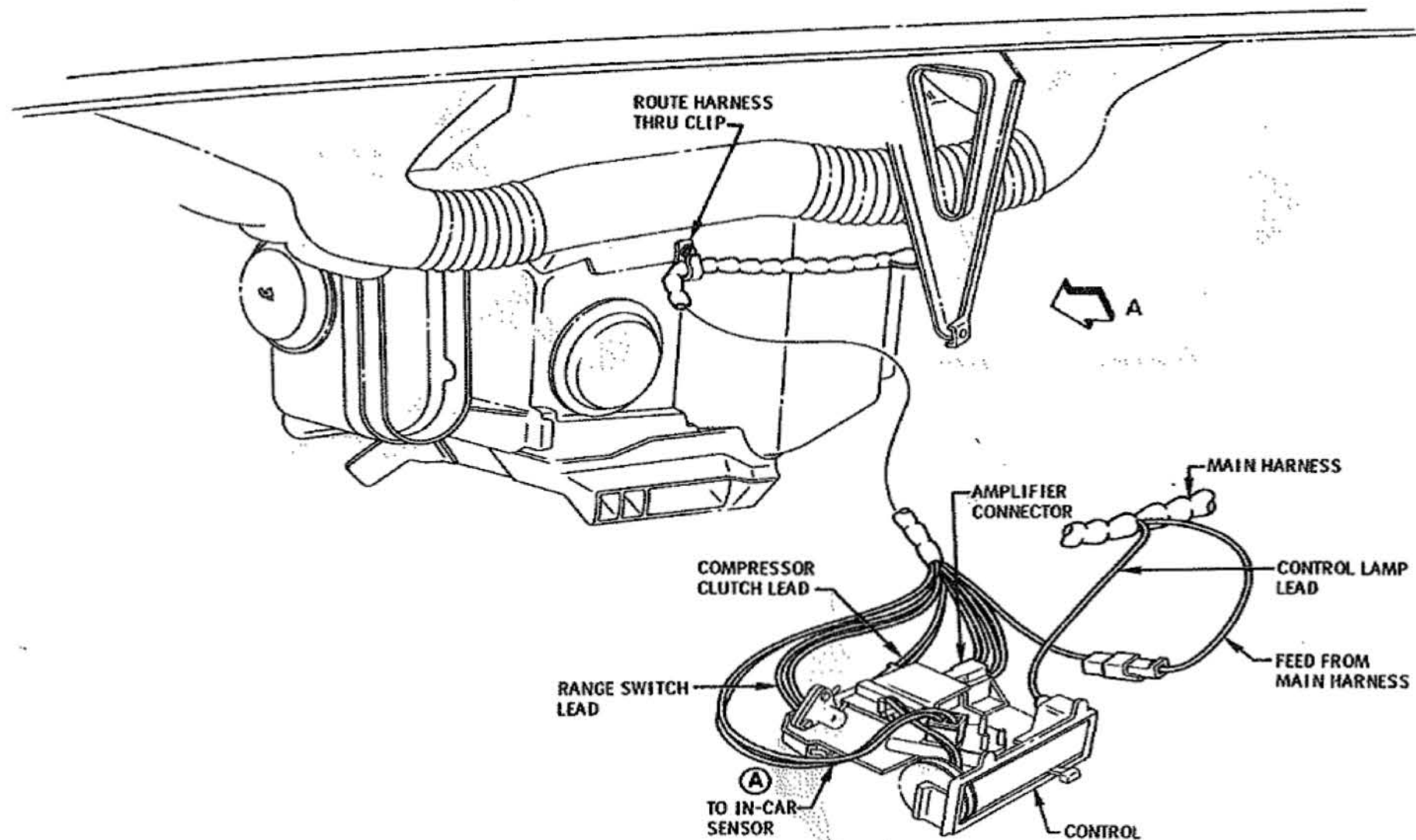
TITLE												1A2C PICTORIAL WIRING DIAGRAM									
DATE						MAR. 21, 1967			FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE				
DR. BY						D. C. WIMES							12		139						
CHECKED						H. S. WATSON			REF.		1A2C		SERIES		PART NO.						
APPR.						[Signature]					B-C		398163								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM



REVISION										TITLE				
										35C60 PICTORIAL WIRING DIAGRAM				
										DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
										MAR. 28 1967	1968		12	215
										CHECKED	REF.	SERIES	PART NO.	
										APPR. K.F. Malenka		B-C	398163	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

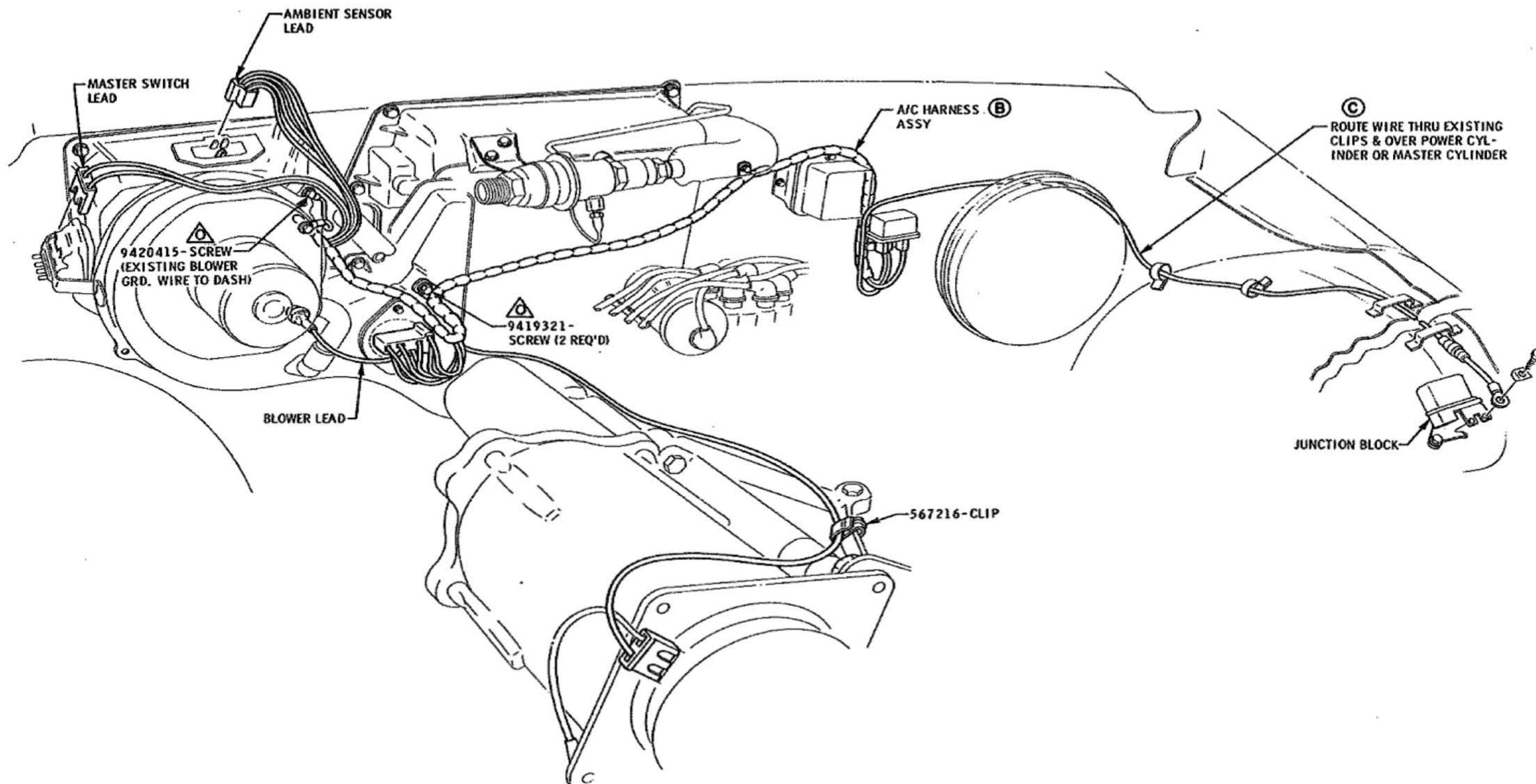


										TITLE				35C61 PICTORIAL WIRING DIAGRAM					
										DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE					
										9-5-67	D	WIRE ROUTING REVISED	DT	DATE	APR. 3, 1967	1968		12	217
										8-28-67	C	BACKGROUND CLIPS REMOVED	DT	DR. BY	DR. BY				
										5-1-67	B	WIRING REVISED	DT	CHECKED	<i>[Signature]</i>				
										6-20-67	A	JUNCTION BLOCK REVISED	DT	APPR.					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	SERIES	PART NO.		
																B-C	398163		



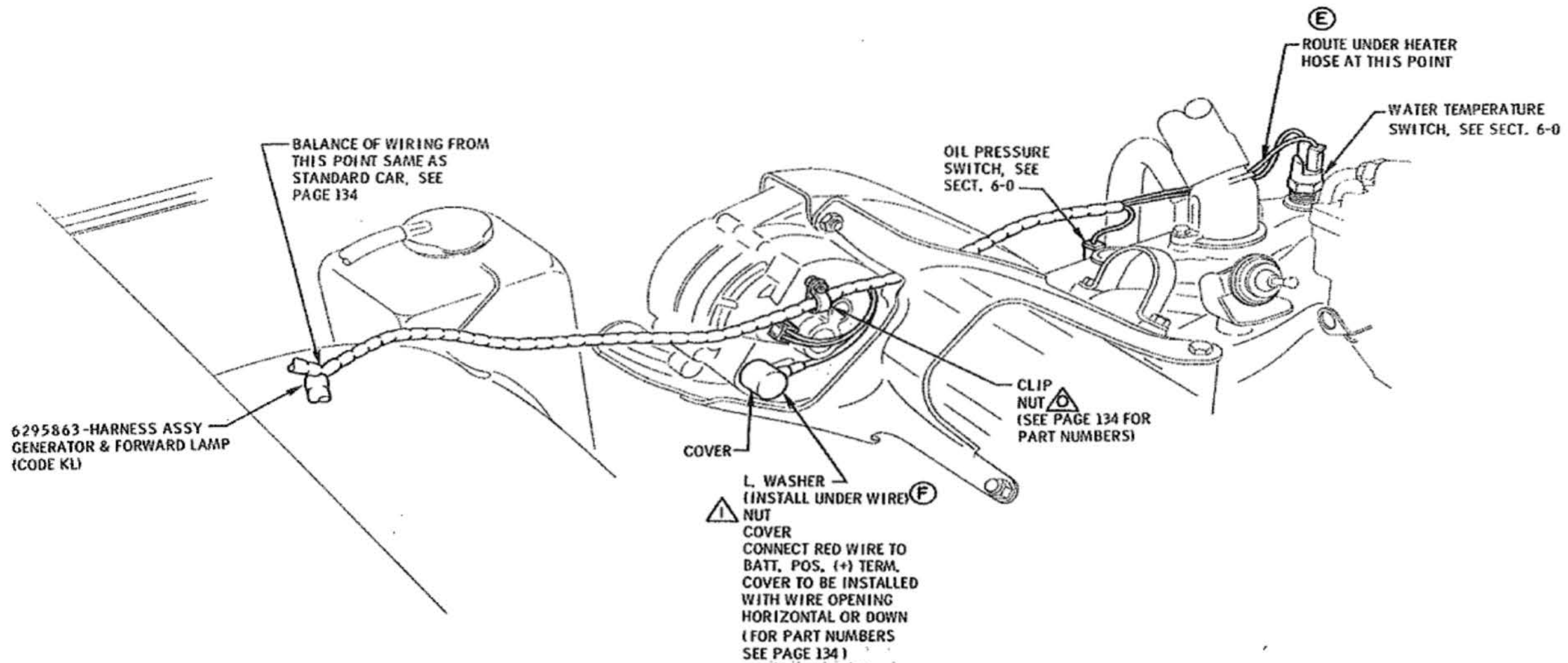
VIEW A

										TITLE 35C61 WIRING (INSIDE OF CAR)												
										DATE	APR 3, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	12	PAGE	218				
										DR. BY	GOODWIN	CHECKED	DT	APPR.	REF.	SERIES	B-C	PART NO.	398163			
										DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.
										B-1-67 A WIRING REVISED												



⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

												TITLE 35C61 WIRING (ENGINE COMPARTMENT)													
												9-27-67	D	TORQUE NOTE ADDED	PL	DT	DATE	APR. 3, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	12	PAGE	231
												8-31-67	C	WIRE ROUTING REVISED	DT		DR. BY	BYD	CHECKED	T. JONES	REF.	SERIES	B-C	PART NO.	398163
												7-10-67	B	WIRE ROUTING REV'D	DT		APPR.								
												6-20-67	A	JUNCTION BLOCK REV'D	DT		DR. CK.								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	REF.	SERIES	PART NO.							



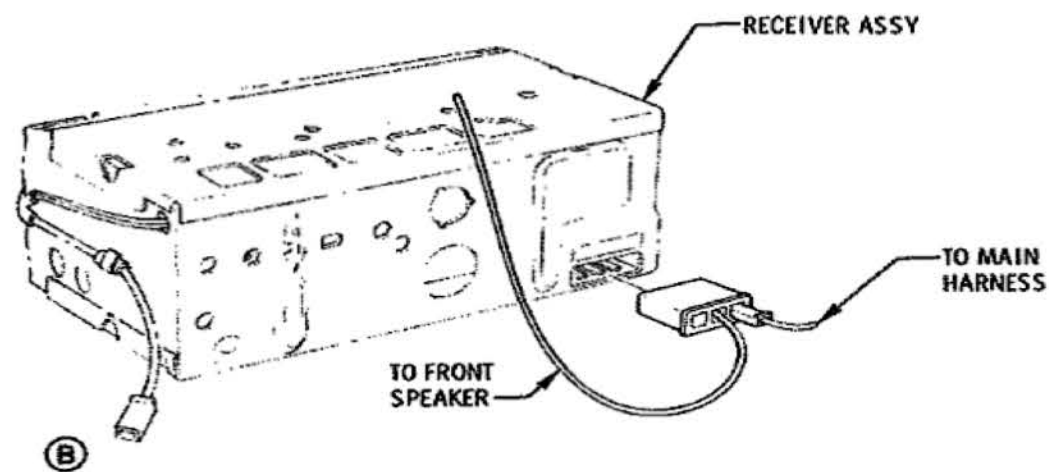
ⓐ

⚠ 30 - 40 LB. IN.

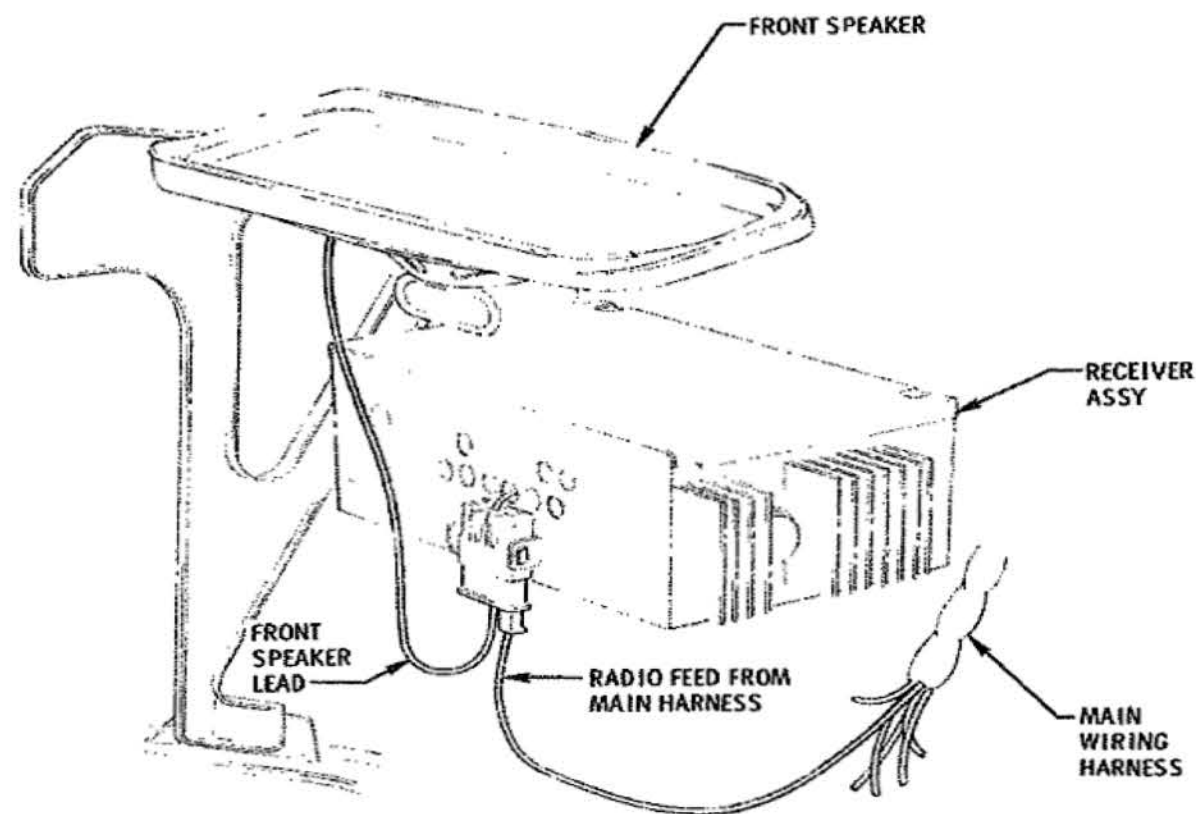
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

GENERATOR, OIL PRESSURE SWITCH, WATER TEMP. SWITCH FOR A/C

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					1-5-68	E	NOTE ADDED									MAIN HARNESS-GENERATOR & FORWARD LAMP				
					5-26-67	D	TORQUE NOTE ADDED									DATE MAR. 31, 1967	1968		12	232
					8-9-67	C	NOTES REVISED									DR. BY GOODWIN				
					3-11-68	G	TORQUE REVISED									CHECKED				
					3-11-68	F	NOTE REVISED									APPR.				
					6-29-67	A	WAS 6295863 HARNESS										REF. 35065-35061	SERIES B-C	PART NO. 398163	



REAR VIEW OF 35U63 RADIO WIRING

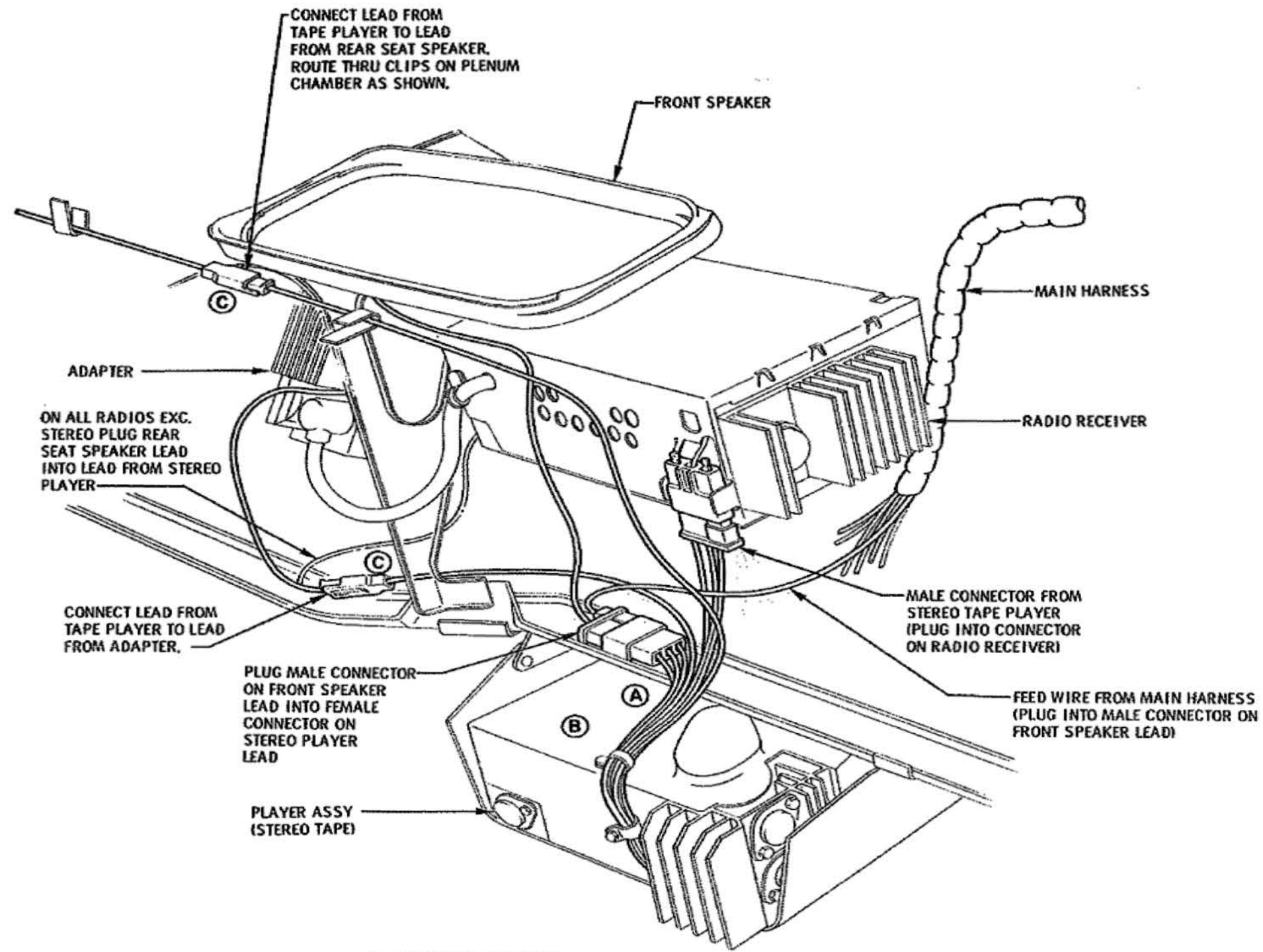


REAR VIEW OF 35U59 RADIO WIRING

TITLE												35U59 & 35U63 RADIO WIRING							
DATE								MAY 5 1967		FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE	
DR. BY								D.L. GIBSON						12		319			
CHECKED								J.T.H.											
APPR.								D.T.											
APPR.																			
DATE				SYM				REVISION				SERIES				PART NO.			
												B-C				398163			

1220 67 B COMPLETION OF 35U63

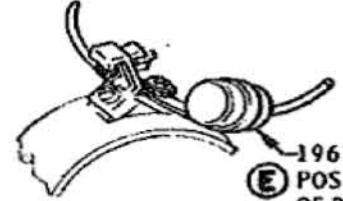
827-67 A REDRAWN-NO CHANGE



STEREO TAPE PLAYER
WIRING INSTALLATION
WITH RADIO

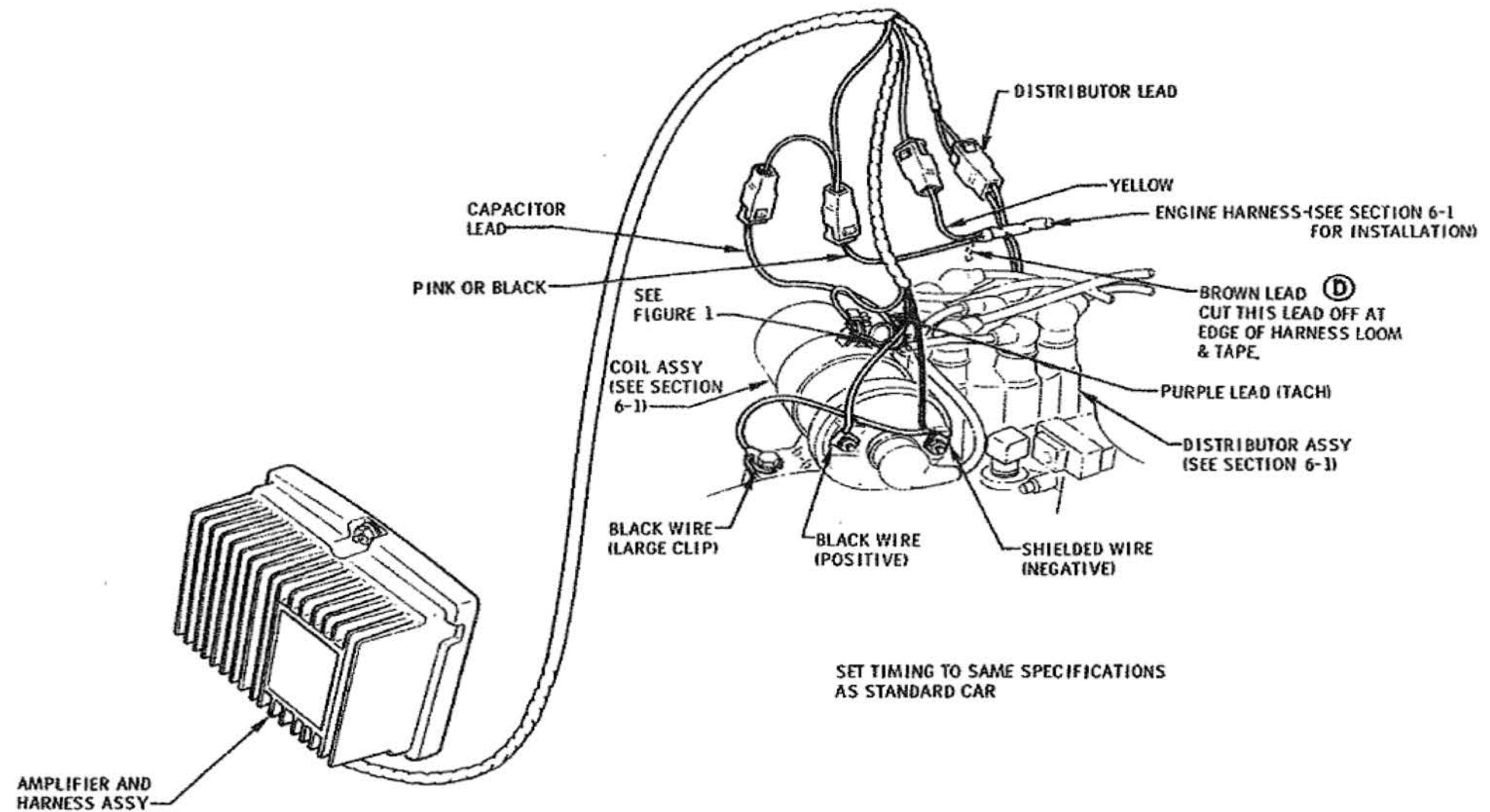
										TITLE		WIRING-STEREO TAPE PLAYER			
										DATE	DEC. 21, 1966	FIRST USED	1968		
										DR. BY	B. PARKER	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE	
										CHECKED	JRM	INFORMATION MANUAL	12	321	
										REF.	35057	SERIES	B-C	PART NO.	
										APPR.				398163	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

12-20-67	C ₂	CONNECTORS REVISED	DR.	DY
7-7-67	B	WIRING CLIP ADDED	DR.	DM
5-8-67	A	CLIP REMOVED	DR.	DY



1961919-CAPACITOR ASSY
 ⓔ POSITION CAPACITOR FREE OF DISTRIBUTOR INTERFERENCE
 ⚠ 9416736-SCREW
 121752-L. WASHER

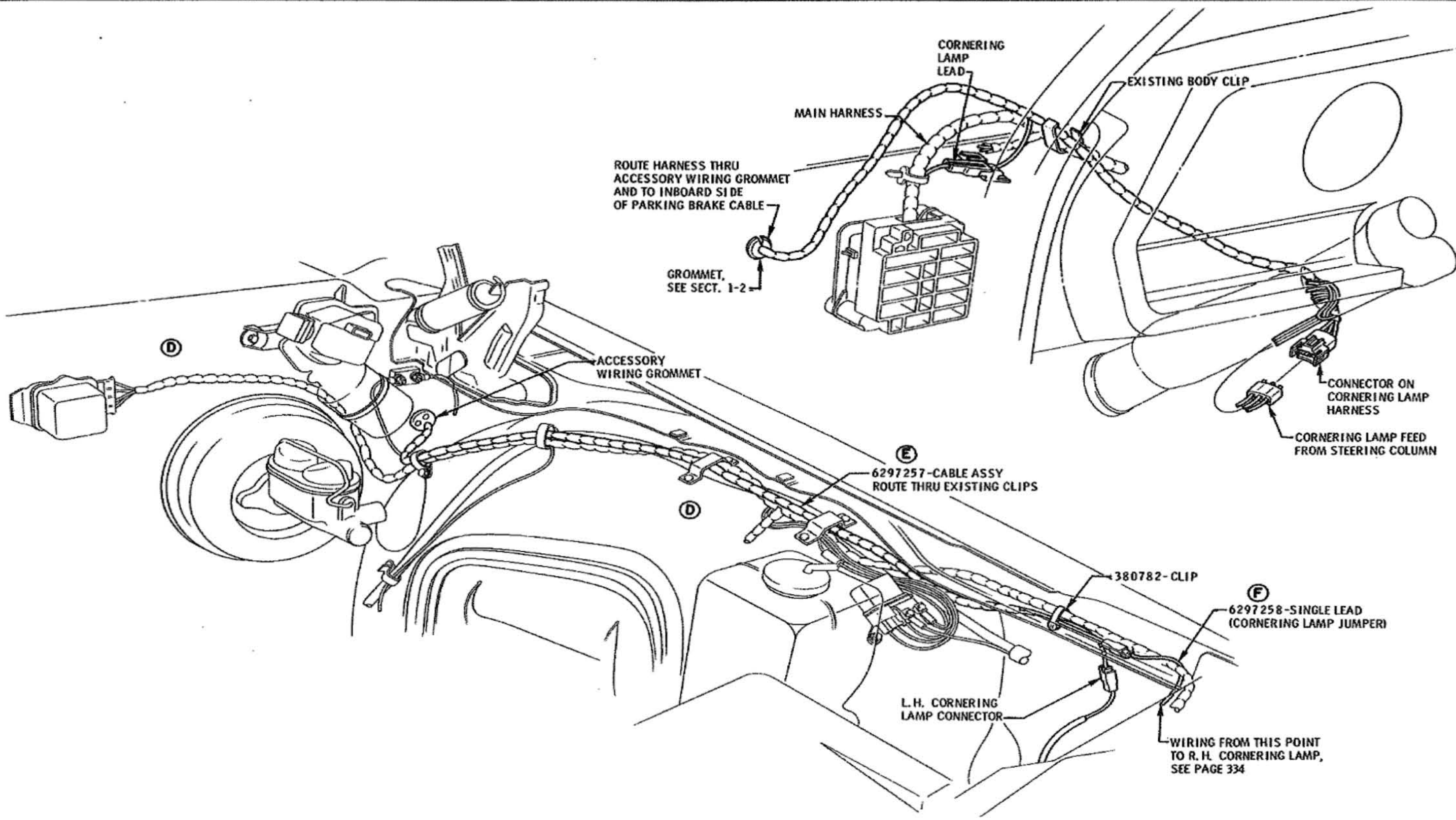
FIGURE 1



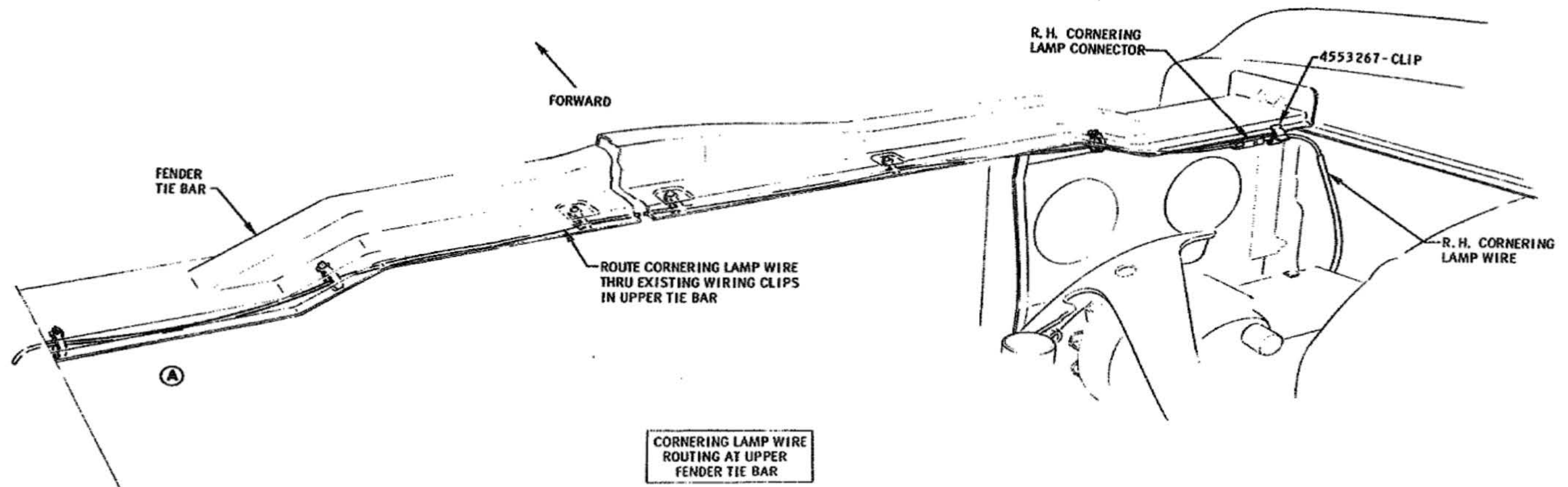
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

FOR SPARK PLUG USAGE, SEE SECTION 6-1

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					2-6-68	E	CAPACITOR REPOSITIONED								DT	35K66 PICTORIAL WIRING DIAGRAM				
					10-23-67	D	NOTE ADDED								DT	DATE MAR 27 1967	1968		12	330
					9-27-67	C	TORQUE NOTE ADDED								PL	DR. BY GOODWIN				
					7-18-67	B	WIRING REVISED								DT	CHECKED	REF. 35K66			
					6-14-67	A	REVISED & REDRAWN								DT	APPR. <i>hull</i>				
																		SERIES B-C	PART NO. 398163	

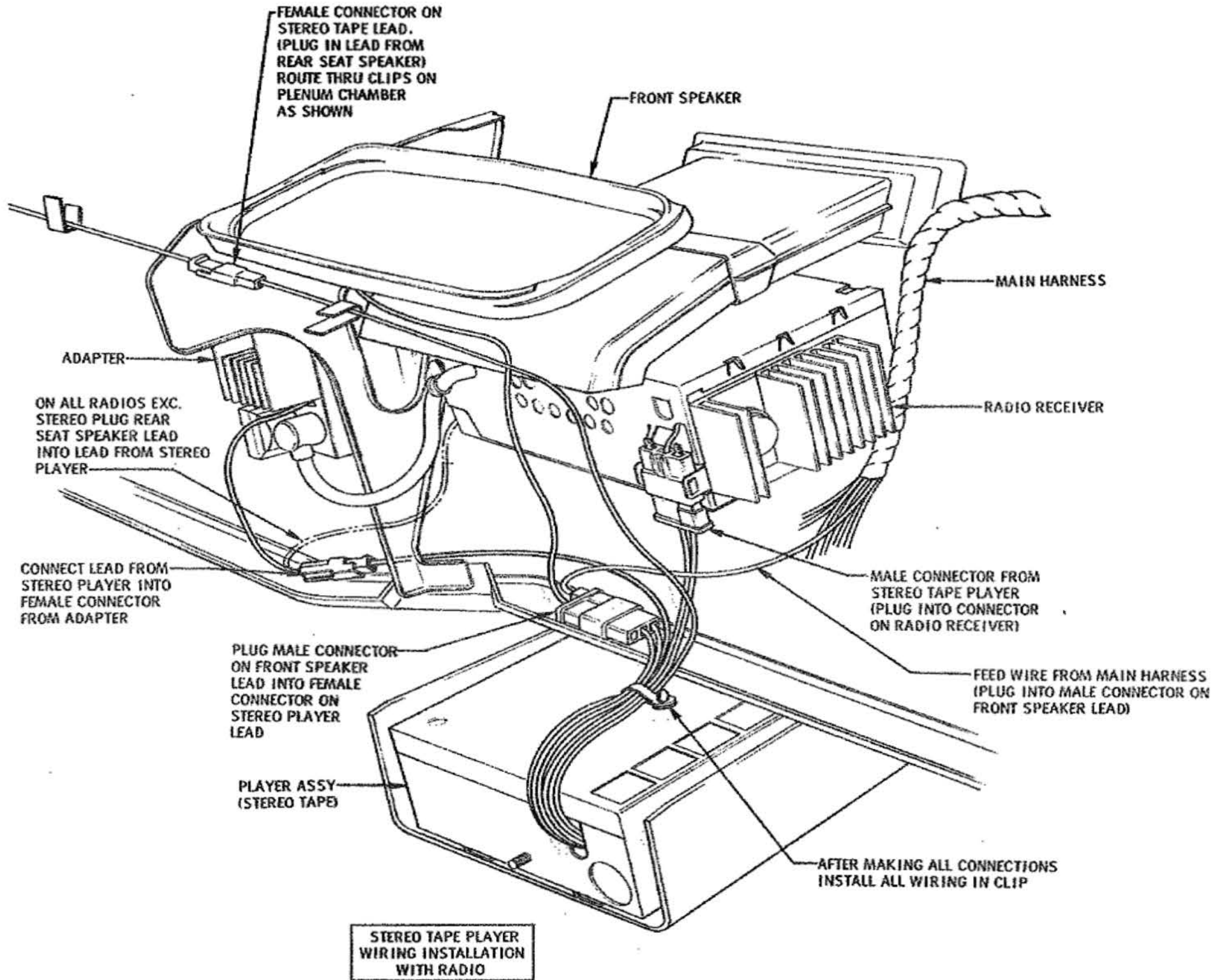


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					10-19-67	E	WAS 6290571-CABLE ASSY	R	DT							CORNERING LAMP WIRING	1968		12	333
					9-1-67	D	BACKGROUND REVISED	R	DT							DATE MAR 31, 1967				
					2-21-67	C	REDRAWN NO CHANGE	R	DT							DR. BY GOODWIN				
					6-20-67	B	JUNCTION BLEED RESV'D	R	DT							CHECKED [Signature]				
					10-19-67	F	PART NUMBER ADDED	R	DT	5-10-67	A	NOTE REVISED	R	DT		APPR.	REF. 35 T 87	SERIES B-C	PART NO. 398163	

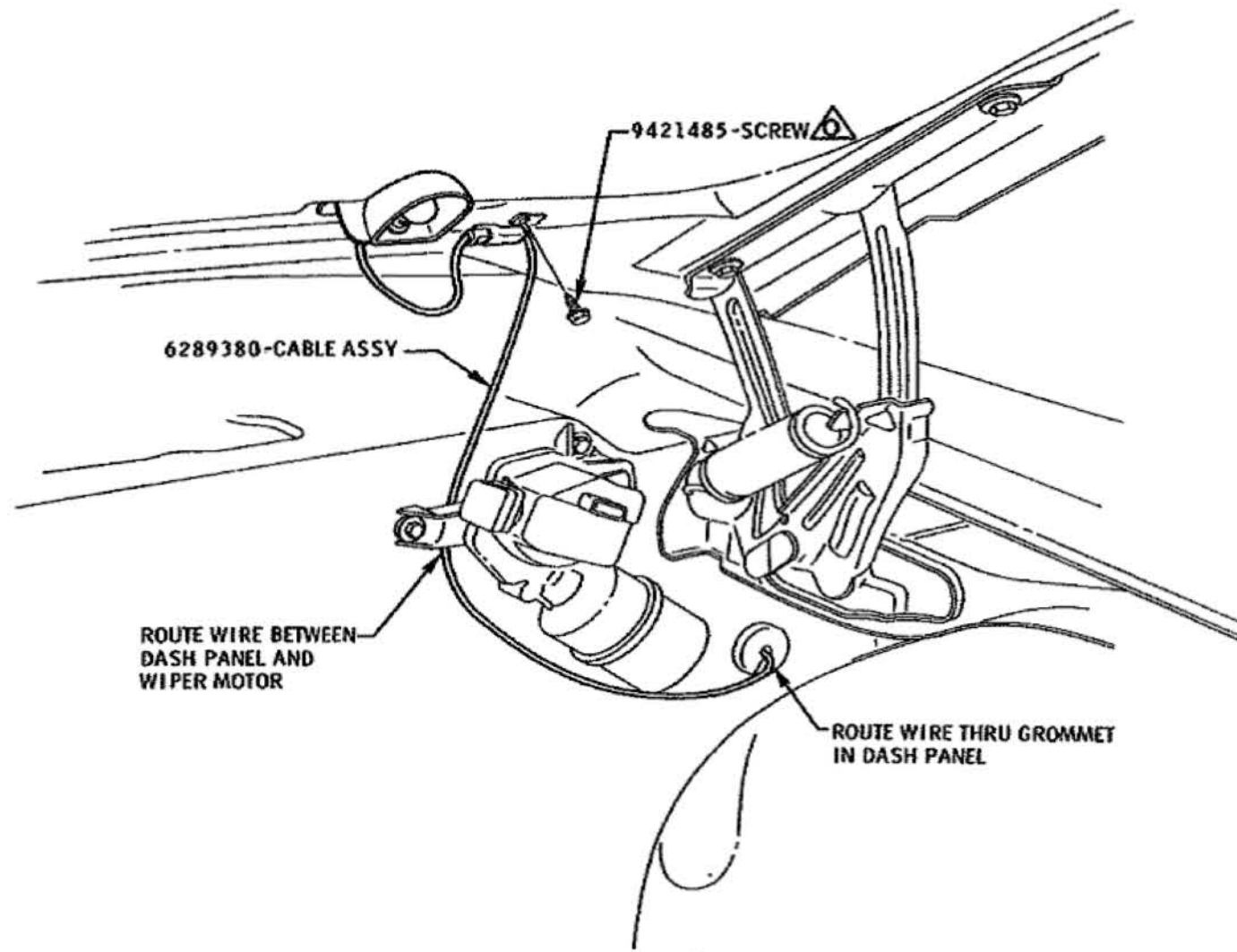


CORNERING LAMP WIRE
ROUTING AT UPPER
FENDER TIE BAR

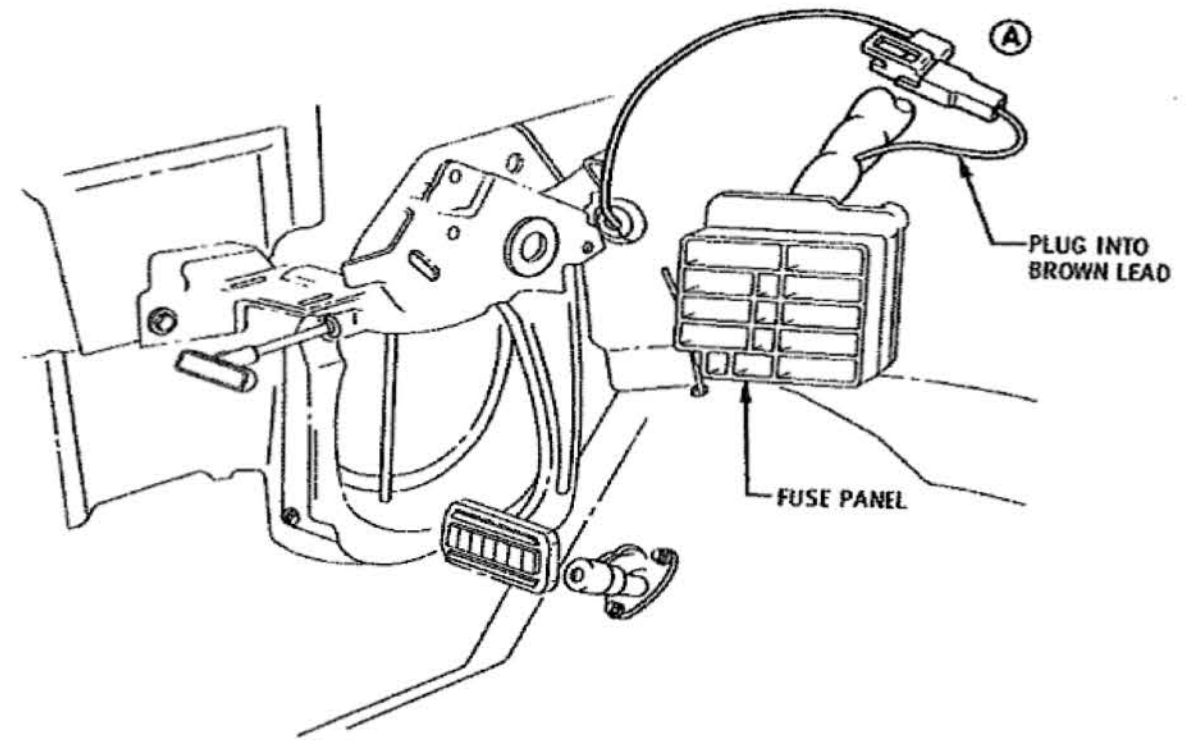
										TITLE				CORNERING LAMP WIRING					
										DATE		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
										MAR. 30, 1967		1968		INFORMATION MANUAL		12		334	
										DR. BY		CHECKED		APPR.		REF.		SERIES	
										GOODWIN		JES				35 T 87		B-C	
										7-7-67		A		L.H. 4553267 CLIP RMD				PART NO.	
																398163			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.				



TITLE														WIRING-STEREO TAPE PLAYER							
DATE														FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
DR. BY														1968		INFORMATION MANUAL		12		335	
CHECKED														REF.		SERIES		PART NO.			
APPR. BY														35057		B-C		398163			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.						



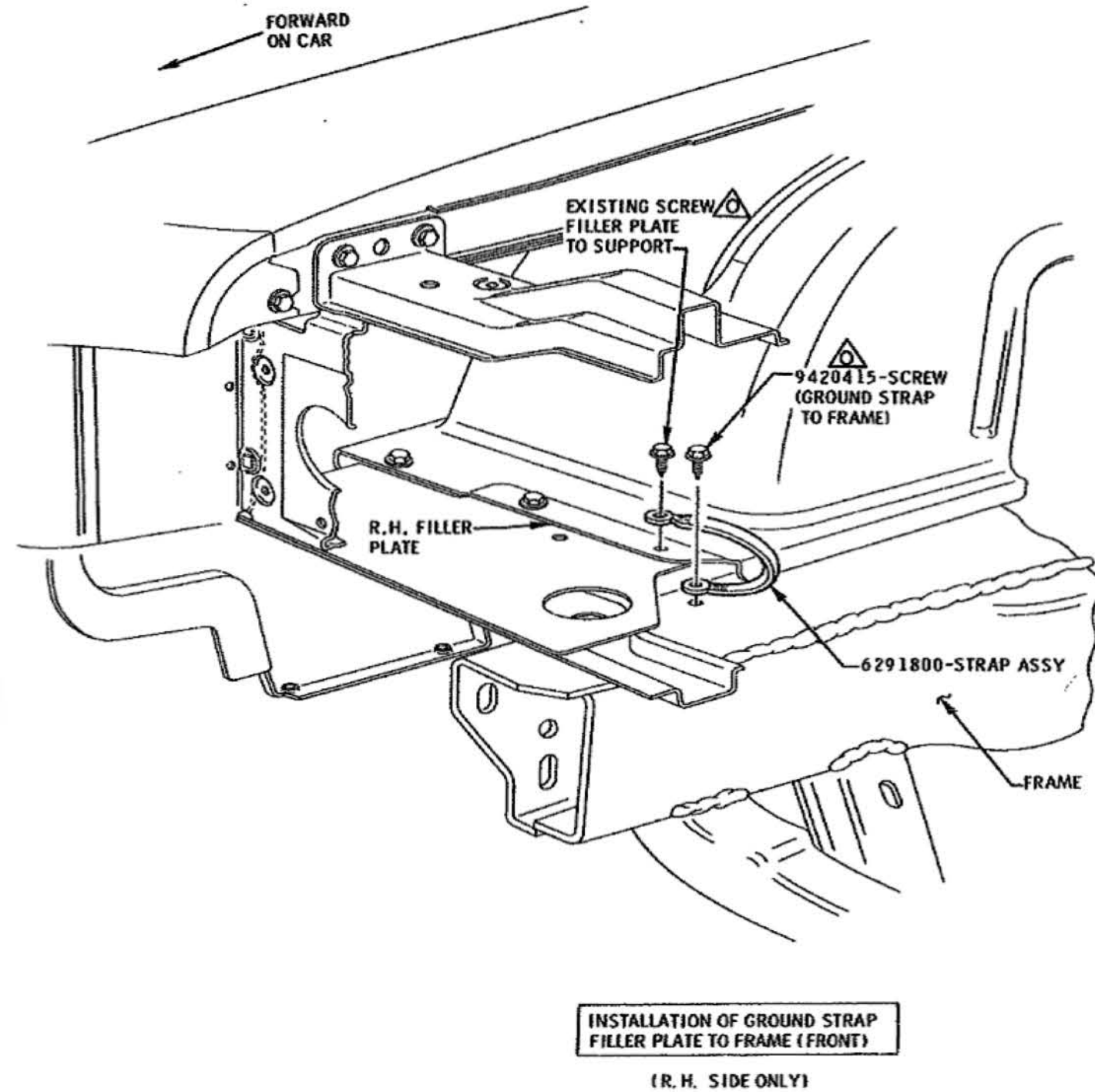
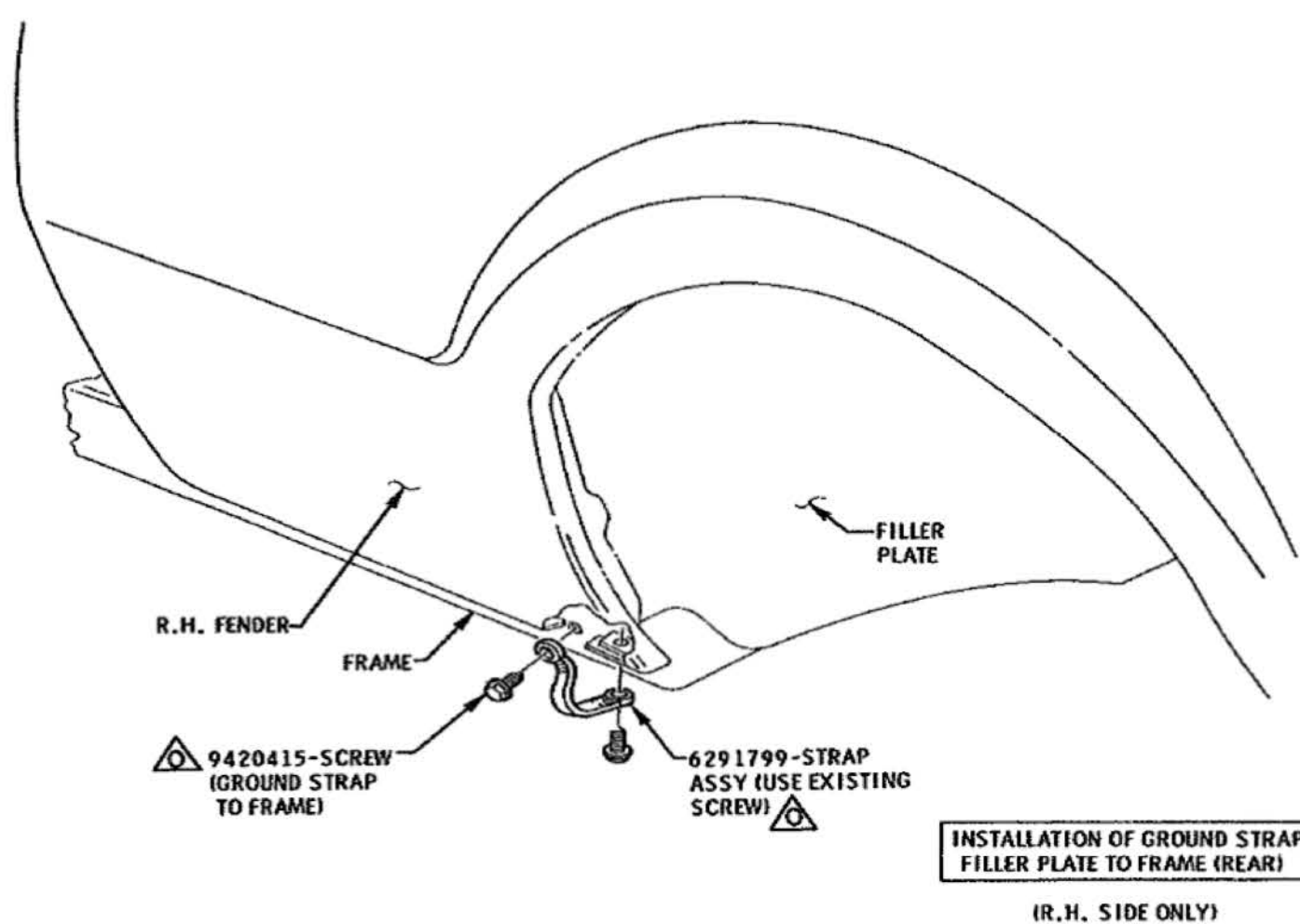
WIRE ROUTING
ENGINE COMPARTMENT



WIRE ROUTING
INSIDE BODY

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																UNDER HOOD LAMP WIRE ROUTING	1968		12	336
					3-27-67	B	TORQUE NOTE ADDED													
					4-1-67	A	CONNECTION REV'D													
																	REF. 35460			
																		SERIES B-C	PART NO. 398163	



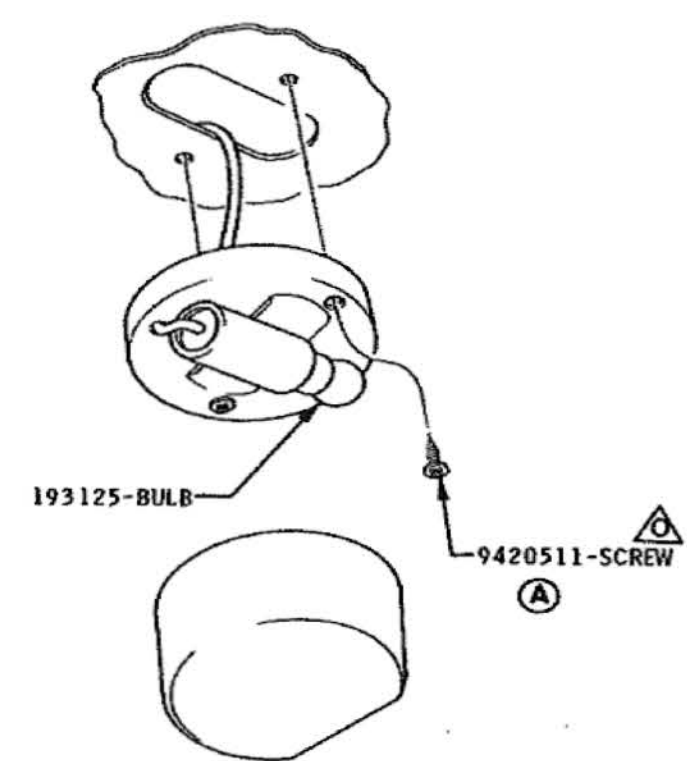
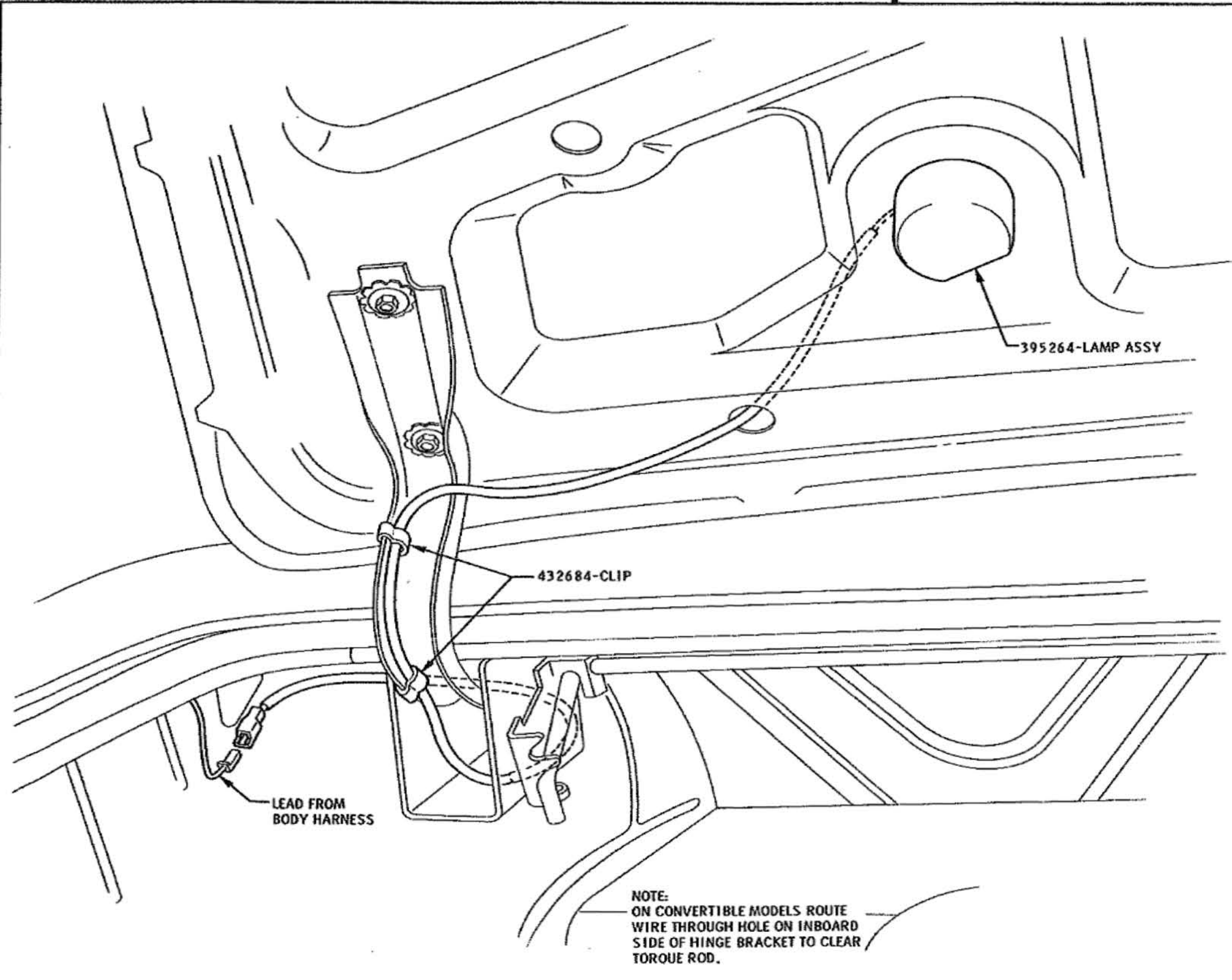
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE										RADIO GROUND STRAPS									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																1968		12	355
																REF. 25452	SERIES B-C	PART NO.	398163

9-29-67 A TORQUE NOTE ADDED

PL 27

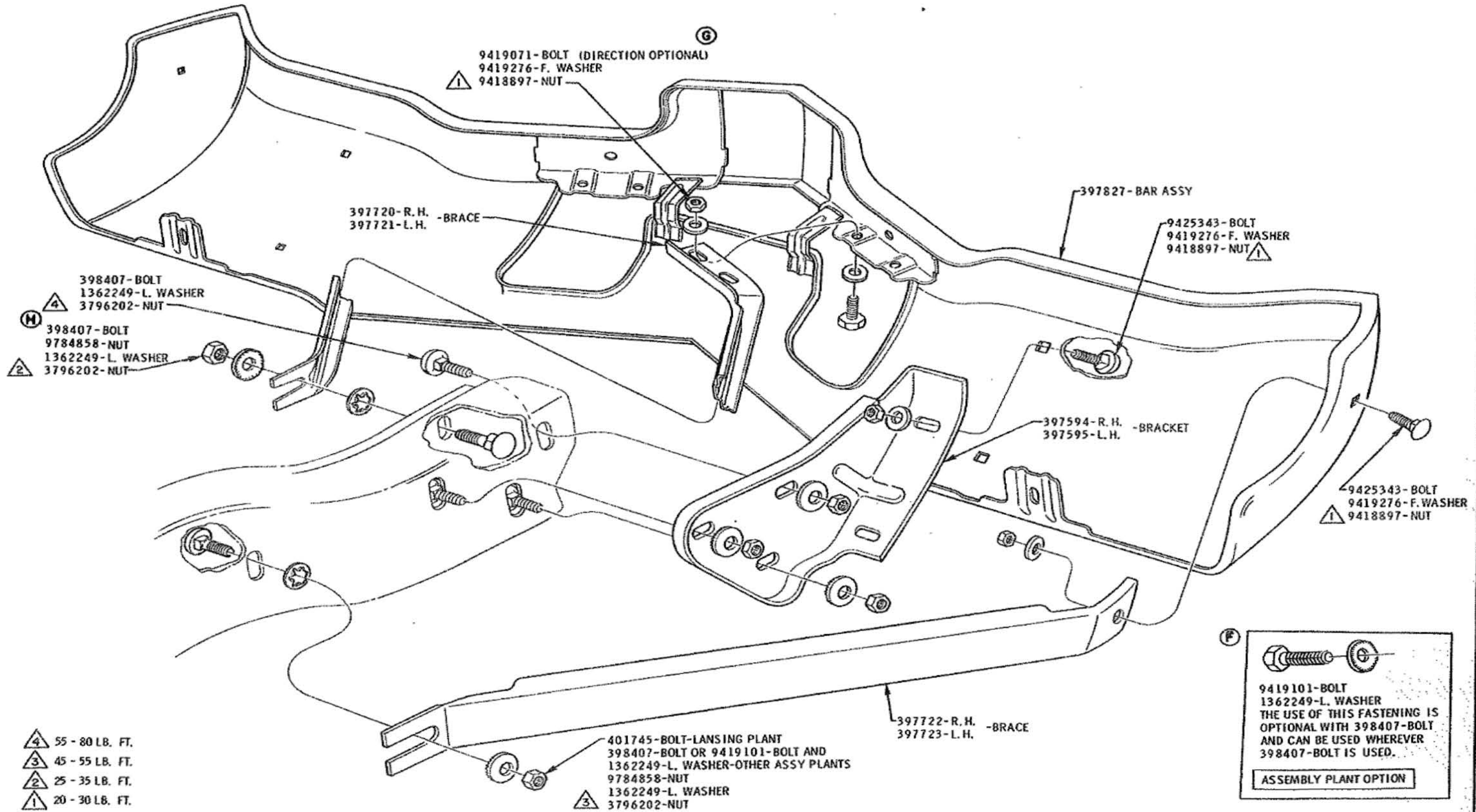
APPR.



NOTE:
ON CONVERTIBLE MODELS ROUTE
WIRE THROUGH HOLE ON INBOARD
SIDE OF HINGE BRACKET TO CLEAR
TORQUE ROD.

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

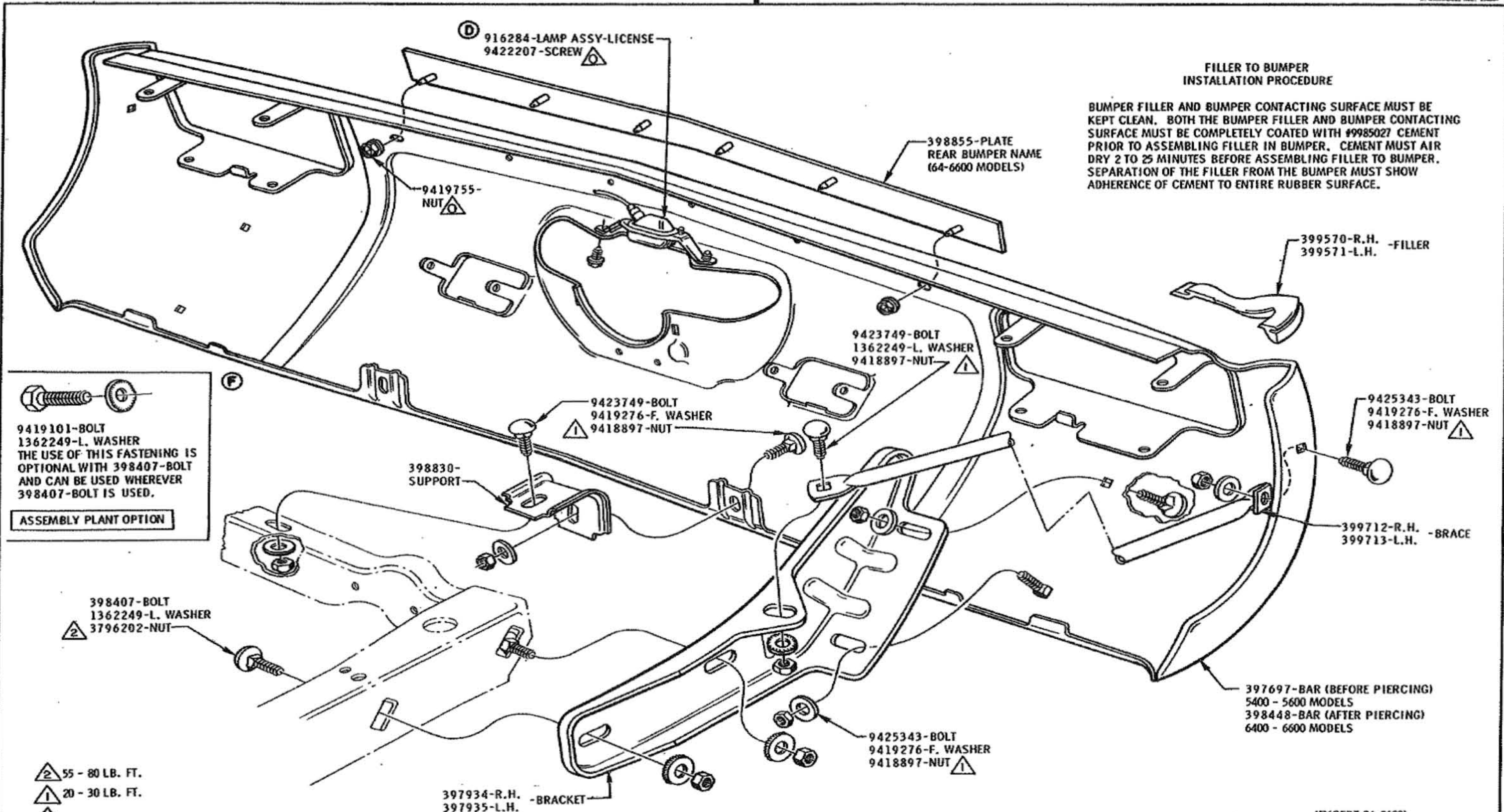
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																TRUNK LAMP	1968		12	360
					10-25-67	B	TORQUE NOTE ADDED	PL	DT											
					7-10-67	A	WAS 161801 SCREW	L-R	PT								REF. 35 Y 60			
																		SERIES	PART NO.	
																		B-C	398163	



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-13-67	E	FASTENING REVISED	B	DT							FRONT BUMPER				
					8-9-67	D	FASTENING REVISED	B	DT							DATE FEB. 9, 1967	1968		14	110
					3-22-68	H	WAS 389057-BOLT	B	DT	7-13-67	C	REINFORCEMENTS ADDED	B	DT		DR. BY BEAUDOIN				
					11-17-67	G	OPT. DIRECTION ADDED	B	DT	7-10-67	B	TORQUE ADDED	J	MS		CHECKED <i>[Signature]</i>				
					9-13-67	F	VIEW ADDED	B	DT	3-7-67	A	WASHER QUANTITY CHANGED	B	DT		APPR. <i>[Signature]</i>				
																REF. 14-A1				
																SERIES B-C				PART NO. 398163

FILLER TO BUMPER
INSTALLATION PROCEDURE

BUMPER FILLER AND BUMPER CONTACTING SURFACE MUST BE KEPT CLEAN. BOTH THE BUMPER FILLER AND BUMPER CONTACTING SURFACE MUST BE COMPLETELY COATED WITH #9985027 CEMENT PRIOR TO ASSEMBLING FILLER IN BUMPER. CEMENT MUST AIR DRY 2 TO 25 MINUTES BEFORE ASSEMBLING FILLER TO BUMPER. SEPARATION OF THE FILLER FROM THE BUMPER MUST SHOW ADHERENCE OF CEMENT TO ENTIRE RUBBER SURFACE.

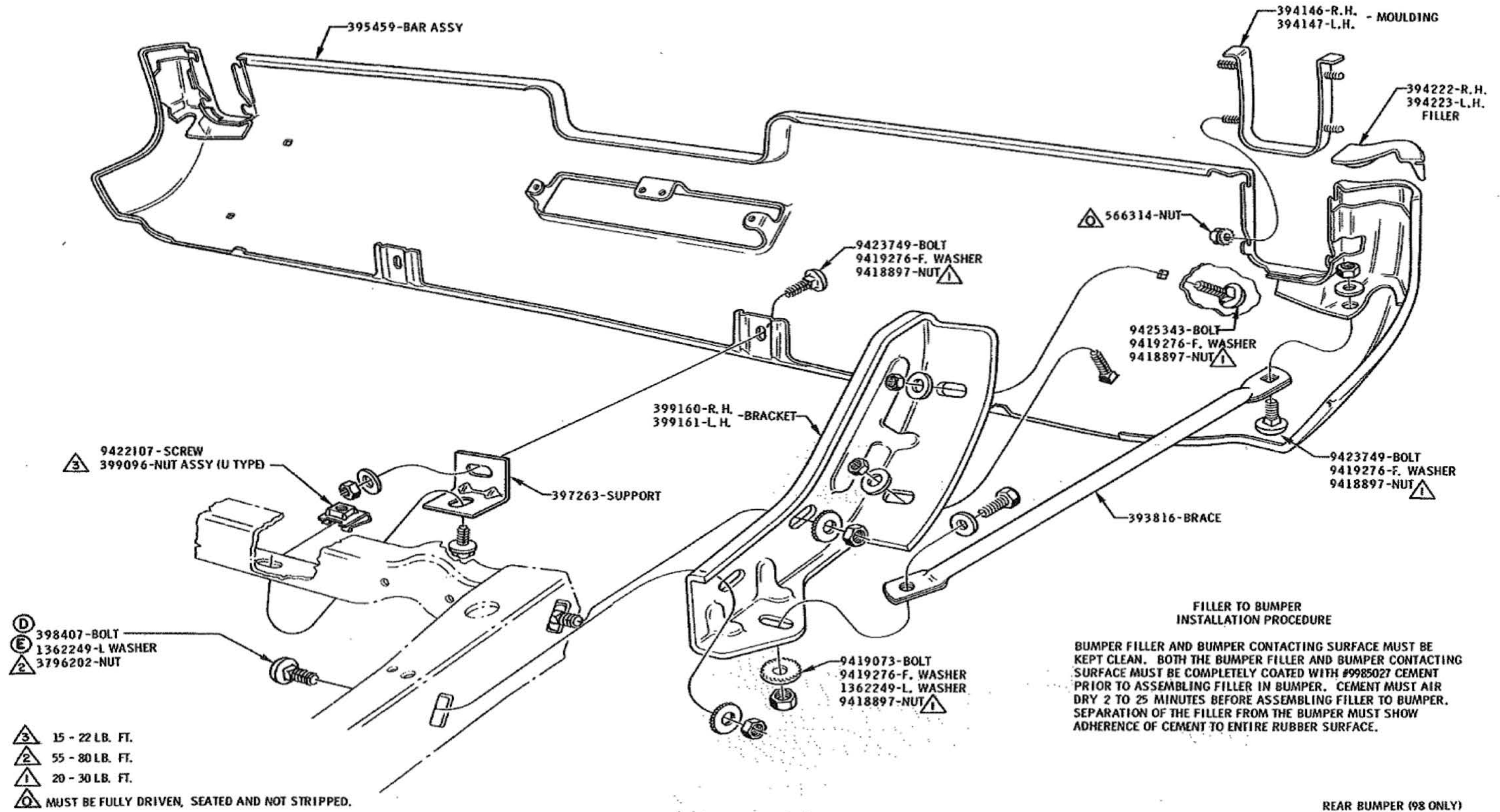


9419101-BOLT
1362249-L. WASHER
THE USE OF THIS FASTENING IS
OPTIONAL WITH 398407-BOLT
AND CAN BE USED WHEREVER
398407-BOLT IS USED.
ASSEMBLY PLANT OPTION

- 2 55 - 80 LB. FT.
- 1 20 - 30 LB. FT.
- A MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

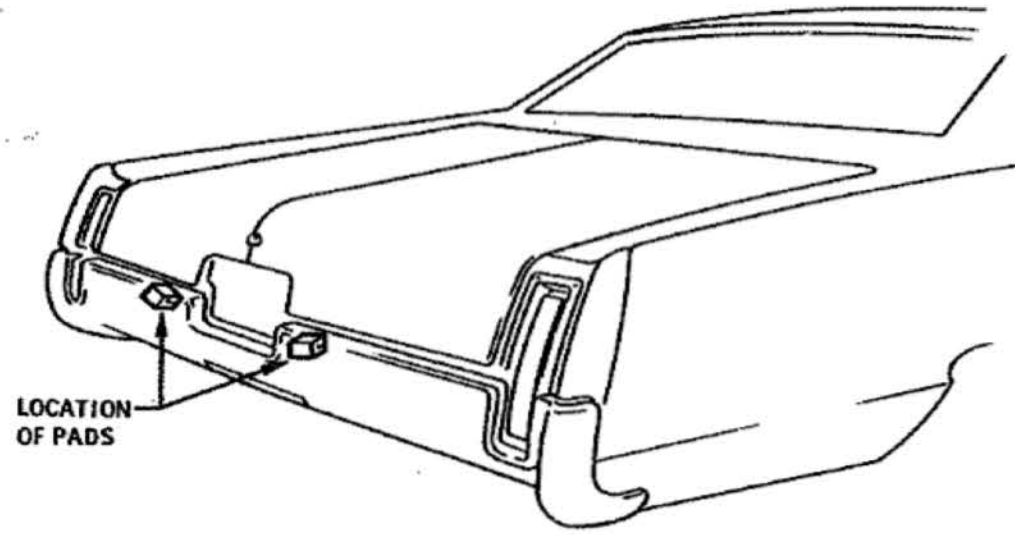
(EXCEPT 84-8600)

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	REAR BUMPER	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
				7-7-69	E	TORQUE ADDED	J13/BP												1968		14	115
				5-22-67	D	LICENSE LAMP ADDED	13/DJ										DATE FEB. 9, 1967					
				5-22-67	C	398447-BAR REMOVED	13/DJ										DR. BY BEAUDOIN					
				5-22-67	B	7656086-PLATE REMOVED	13/DJ										CHECKED					
				3-23-67	A	WAS 9423861 BOLT	13/DJ										APPR. J. Thomas					
				9-13-67	F	VIEW ADDED	13/DJ											REF. 14-A2		SERIES B-C	PART NO. 398163	

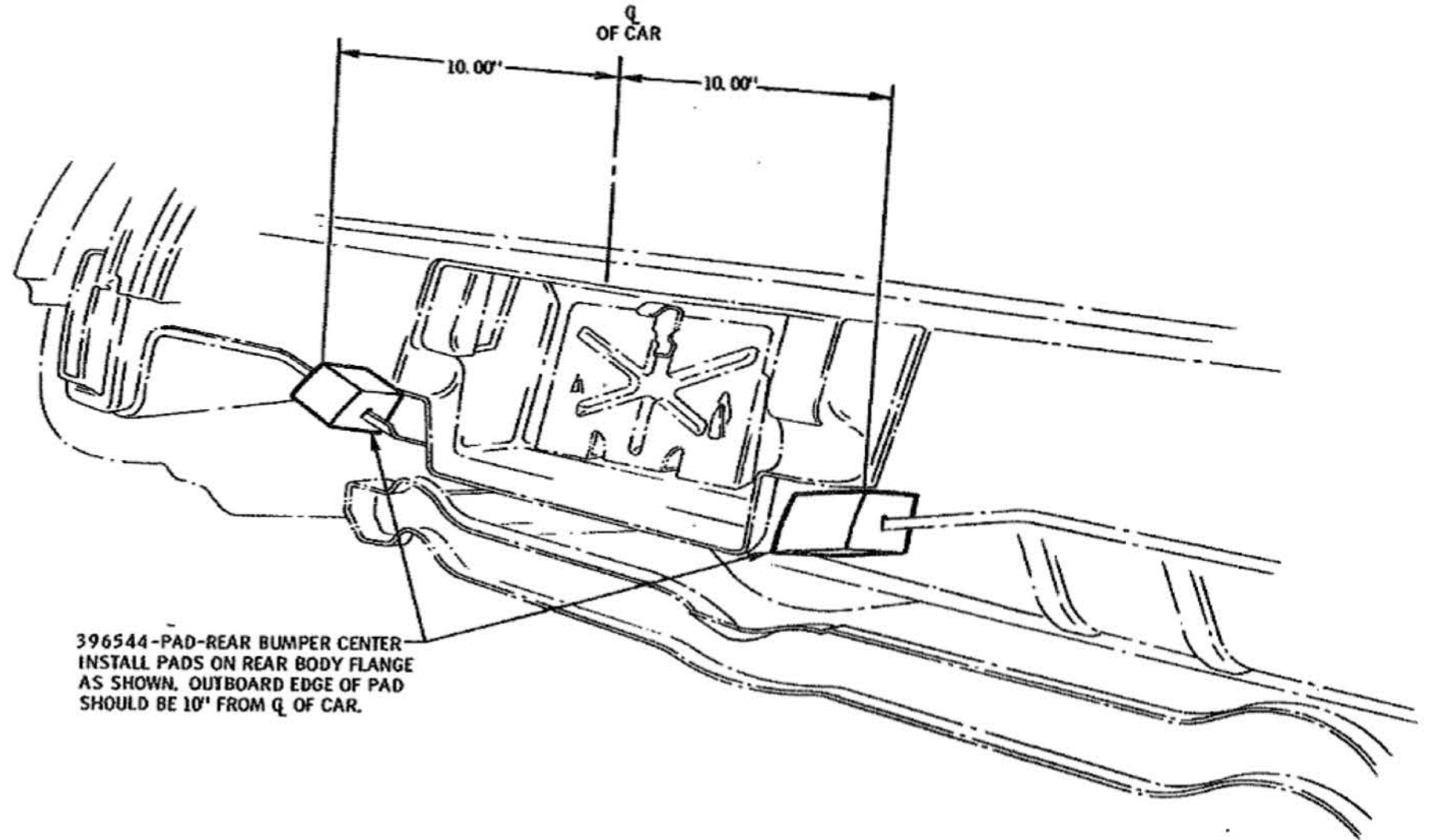


- 3** 15 - 22 LB. FT.
- 2** 55 - 80 LB. FT.
- 1** 20 - 30 LB. FT.
- Q** MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	PART NO.
					8-16-67	E	390894 WASHER REMOVED	B.	DT							REAR BUMPER	1968		14	116	
					8-16-67	D	WAS 393597-BOLT	B.	DT							DATE FEB. 9, 1967					
					7-10-67	C	TORQUE REVISED	B.	DT							DR. BY BEAUDOIN					
					6-9-67	B	WAS 9780922-SCREW	B.	DT							CHECKED J. J.					
					3-23-67	A2	WAS 9423861-BOLT	B.	DT							APPR. J. J.					
																REF. 14-A2		SERIES B-C			398163



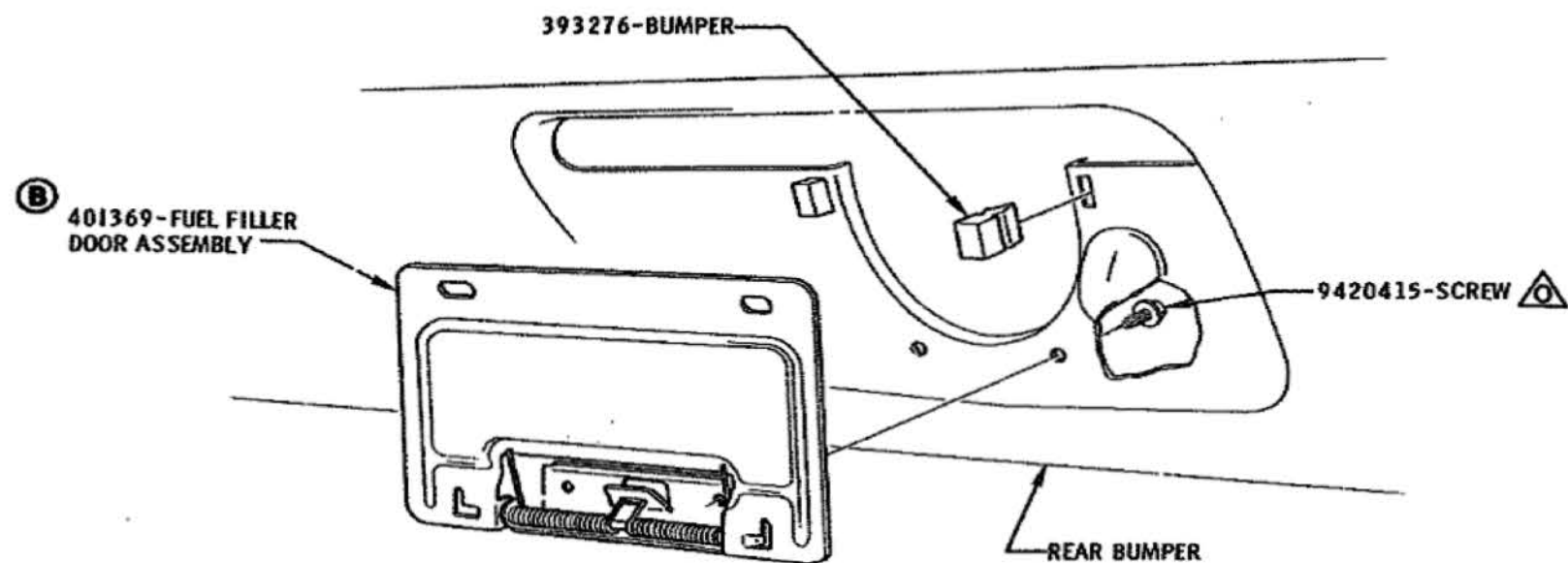
LOCATION OF PADS



396544-PAD-REAR BUMPER CENTER
INSTALL PADS ON REAR BODY FLANGE
AS SHOWN. OUTBOARD EDGE OF PAD
SHOULD BE 10" FROM Q OF CAR.

REAR BUMPER (98 ONLY)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	REF.	SERIES	PART NO.
																REAR BUMPER PADS	1968		14	125	14-A2	B-C	398163



NOTE: NOT USED ON STATION WAGON
OR ON 98 MODELS

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

										TITLE		FUEL FILLER DOOR							
										DATE	APR. 5, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	14	PAGE	130	
										DR. BY	MODERN ENGRG	CHECKED	JDM						
												REF.	BA	SERIES	AB-C	PART NO.	398162-3		
										7-26-67	B	WAS 400086-DOOR ASSY	B	DT					
										6-27-67	A	TORQUE NOTE ADDED	B	DT					
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	APPR.						