

1968

OLDSMOBILE



F-85

Cutlass

4-4-2

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.

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**U.P.C. OPTION 35N30
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**U.P.C. OPTION 35T60
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STATIC COLLECTOR ASSY

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**U.P.C. OPTION 35V01
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**U.P.C. OPTION 35Y68
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																DR. BY <i>M.C. MASON</i>					
																CHECKED <i>W. Barnhart</i>					
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OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

R. GARROLL, INC. 6879

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
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68-2005.

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GENERAL TORQUE SPECIFICATIONS

ASSEMBLY LINE INSTALLATION TORQUE:

This is the torque on Product Information drawings and applies to the specific fastener before the car passes the test rolls at the end of the assembly line.

- Ⓐ The assembly line installation torque also applies to any repair line installation.

AUDIT TORQUE ON COMPLETED CARS:

This torque applies to the finished product after it has passed the assembly line test rolls and up to the time the car receives its gate release. This torque range is intended to recognize normal changes in the assembly line installation torque after the car has been driven. Therefore, the assembly line installation torque must be within the specified ranges in order to meet the audit torque range.

NOTE:

Product Engineering can assure product reliability only when assembly line installation torques are within the specified ranges. Audit torque is in no way intended to relax or affect assembly line installation torque.

R. L. KIRKPATRICK
FASTENER ENGINEER

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.
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																DATE FEBRUARY 23, 1967						
																DR. BY RODNEY DAVIS						
																CHECKED DON MALKIN						
																APPR. R. L. Kirkpatrick						
																3206A NOTE ADDED						

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

W. BARRELL, INC. 1966

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
GRP. #1					
396785-B	71/6-14 X 2.87	GM 260-M	30-45 LB. FT.	BODY MOUNTING #2	25-55 LB. FT.
3902232-8(10PT)	71/6-14 X 2.88	GM 260-M			
3902231-8	71/6-14 X 2.37	GM 260-M	30-45 LB. FT.	BODY MOUNTING #3	25-55 LB. FT.
1366144-8	71/6-14 X 2.62	GM 260-M	30-45 LB. FT.	BODY MOUNTING #4, 7	25-55 LB. FT.
GRP. #2					
9418931-N	3/8-16	GM 286-M	30-40 LB. FT.	TRANSMISSION SUPPORT TO FRAME	
GRP. #3					
9418931-N	3/8-16	GM 286-M	120-180 LB. IN.	BUMPER TO LOWER ARM	
(*3) 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.
9422301-N	1/2-13 (LOCK)	GM 301-M	70-90 LB. FT.		
(*3) 9421430-B	1/2-13 X 3 3/4	GM 300-M	90-120 LB. FT.	LOWER ARM TO FRAME FRONT CROSS BAR	60-110 LB. FT.
9422301-B	1/2-13 (LOCK)	GM 301-M	70-90 LB. FT.		
(*4) 9422286-N	5/8-18 (LOCK)	GM 286-M	45-60 LB. FT.	BUSHING TO UPPER ARM SHAFT	35-70 LB. FT.
9422299-N	7/16-14 (LOCK)	GM 301-M	45-55 LB. FT.	UPPER ARM SHAFT TO FRAME BRACKET	35-65 LB. FT.
(*2) 102647-N	1/2-20	GM 286-M	40-60 LB. FT.	KNUCKLE TO UPPER CONTROL ARM	30-90 LB. FT.
(*2) 9427880-N	9/16-18	GM 301-M	40-60 LB. FT.	KNUCKLE TO LOWER CONTROL ARM	30-90 LB. FT.
(*1) 378137-N	3/4-20	GM 286-M		HUB TO KNUCKLE	
1365067-N	3/8-24	SAE 1113	60-120 LB. IN.	SHOCK ABSORBER UPPER MOUNTING	
9420555-5C	5/16-18 X 7/8	GM 275-M	15-25 LB. FT.	SHOCK ABSORBER LOWER MOUNTING	
9422107-5C	5/16-18 X 1 1/8	GM 6010	120-180 LB. IN.	STABILIZER BRACKET TO FRAME	
1365065-N	5/16-18 (SPECIAL)	GM 286-M	60-180 LB. IN.	STABILIZER LINK	
GRP. #4					
102634-N	5/16-18	GM 286-M	12-16 LB. FT.	PROPELLER SHAFT TO AXLE PINION FLANGE	10-20 LB. FT.
(*3) 9421430-B	1/2-13 X 3 3/4	GM 300-M	90-120 LB. FT.	UPPER ARMS TO FRAME CROSS MEMBER (EXC. EXT. WAG.)	60-110 LB. FT.
(*3) 9427318-B	1/2-13 X 3 3/8	GM 300-M	90-120 LB. FT.	UPPER ARMS TO FRAME CROSS MEMBER (EXT. WAG.)	60-110 LB. FT.
9422301-N	1/2-13 (LOCK)	GM 301-M	70-90 LB. FT.		
(*3) 9421430-B	1/2-13 X 3 3/4	GM 300-M	90-120 LB. FT.	UPPER ARMS TO DIFFERENTIAL CARRIER	60-110 LB. FT.
9422301-N	1/2-13 (LOCK)	GM 301-M	70-90 LB. FT.		
(*3) 9421430-B	1/2-13 X 3 3/4	GM 300-M	90-120 LB. FT.	LOWER ARM ASSY TO FRONT BRACKET	60-110 LB. FT.
9422301-N	1/2-13 (LOCK)	GM 301-M	70-90 LB. FT.		

- (*1) WHILE ROTATING HUB AND DRUM ASSEMBLY
- TIGHTEN NUT TO 25 TO 30 LB. FT. TORQUE
 - BACK OFF NUT 1/2 TURN
 - RETIGHTEN NUT FINGER TIGHT, SECURE IF POSSIBLE
 - 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.
- CHECK DIM. -.001 - .005 END PLAY BETWEEN HUB & SPINDLE

- (*2) AFTER REACHING MIN. TORQUE REQUIRED, NUT MUST ALWAYS BE TIGHTENED FURTHER, NEVER BACK OFF, TO INSERT COTTER PIN. MAXIMUM AUDIT TORQUE NOT TO BE EXCEEDED FOR RE-INSTALLATION OF COTTER PIN AFTER AUDIT.
- (*3) ANY RETORQUE SUBSEQUENT TO THE INITIAL APPLICATION MUST BE APPLIED TO THE SAME END AS TORQUED INITIALLY
- (*4) APPLY TORQUE WHILE CAR IS AT CURB HEIGHT (LANSING ONLY)

CHART - WRENCH TORQUE (CHASSIS)					FIRST USED 1968	OLDSMOBILE - PRODUCT INFORMATION MANUAL	MANUAL SECTION 0	PAGE 102		
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6067 E #1 REMOVED										
52467 D #1 REMOVED										
5867 C #6 ADDED										
5867 B #6 REMOVED										
9422301-N WAS MANUAL PAGE 103										
9422301-N REVISED										
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PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE
					ON COMPLETED CARS
GRP. #4 (CONT'D)					
9421431-435-B 9422301-N	1/2-13 X 3 3/4 1/2-13 (LOCK)	GM 300-M GM 301-M	90-120 LB. FT. 70-90 LB. FT.	LOWER ARM ASSEMBLY TO REAR BRACKET	60-110 LB. FT.
9418897-N	7/16-14	GM 286-M	35-55 LB. FT.	BUMPER SPACER TO AXLE HOUSING BRKT (EXC. EXT. SW)	
9423701-SC	5/16-18 X 1 1/16	GM 275-M	15-25 LB. FT.	REAR SHOCK ABS. UPPER MOUNTING (EXC. EXT. SW)	
1365067-N	3/8-24	SAE 1113	60-120 LB. IN.	REAR SHOCK ABS. UPPER MOUNTING (EXT. SW ONLY)	
9421035-N	1/2-20	GM 286-M (M)	55-75 LB. FT.	REAR SHOCK ABS. LOWER MOUNTING	
9422280	7/16-20 (LOCK)			STABILIZER TO LOWER ARM	
GRP. #5					
1381743-B 9422302-N	1/2-20 X 2 13/32 1/2-20 (LOCK)	GM 300-M GM 301-M	70-90 LB. FT.	BRAKE & STEERING ARM TO KNUCKLE	
1381743-B	1/2-20 X 2 13/32	GM 300-M	80-120 LB. FT.	ANCHOR BOLT-BACKING PLATE TO KNUCKLE	75-130 LB. FT.
9776453-B 2474997-N	3/8-24 X 1.00 3/8-24	GM 300-M GM 286-M	30-40 LB. FT.	BRAKE TO AXLE HOUSING (EXC. EXT. SW)	20-50 LB. FT.
414999-B 1368360-B 2474997-N	3/8-24 X 1.00 3/8-24 X 1.00 (OPT) 3/8-24	GM 1335 GM 300-M GM 286-M	30-40 LB. FT. 30-40 LB. FT.	BRAKE TO AXLE HOUSING (EXT. SW ONLY)	20-50 LB. FT. 20-50 LB. FT.
9422299-N 9418931-N	7/16-14 (LOCK) 3/8-16	GM 286-M	20-30 LB. FT. 20-28 LB. FT.	ARM ASSY TO PEDAL SUPT. BRKT. PEDAL BRACKET TO DASH PANEL	15-30 LB. FT.
9419380-SC	1/4-14 X 3/4	GM 6010-M	72-108 LB. IN.	LEVER ASSY TO INSTRUMENT PANEL	
1359887-N	5/16-18	GM 286-M	84-120 LB. IN.	LEVER ASSY TO DASH-PARKING BRAKE	
9418931-N	3/8-16	GM 286-M	20-28 LB. FT.	MASTER CYLINDER TO PEDAL BRACKET	15-30 LB. FT.
9422232-SC	5/16-12 X 5/8	GM 6010-M	108-156 LB. IN.	FRONT BRAKE HOSE TO ADAPTER	
9420825-SC	5/16-18 X 9/16	GM 6010-M	120-180 LB. IN.	HOSE BRACKET TO FRAME-FRONT	
9420825-SC	5/16-18 X 9/16	GM 6010-M	120-180 LB. IN.	RH FRT. WHL. PIPE TO FRAME	
9420825-SC	5/16-18 X 9/16	GM 6010-M	120-180 LB. IN.	BRAKE PIPE DIST. TO FRAME-FRONT	
9418918-B	5/16-18 X 1	GM 280-M	120-180 LB. IN.	REAR HOSE TO AXLE HOUSING	
9419400-SC	1/4-14 X 1/2	GM 5010-M	25-35 LB. IN.	BRAKE PIPE TO FRAME (EXC. 4800)	
GRP. #6					
454932-B	7/16-14 X 1.00	GM 300-M	70-85 LB. FT.	MOUNT ASSY TO ENGINE (V-8)	
3841492-SC	3/8-16 X 3/4	GM 275-M	25-40 LB. FT.	BRACKET ASSY TO ENGINE (L-6)	
9418897-N	7/16-14	GM 286-M	40-55 LB. FT.	ENGINE MOUNT ASSY TO ENG. BRKT. ASSY (L-6) & ENG. MOUNT ASSY TO FRAME BRKT. (V-8)	
9419073-B	7/16-14 X 1.00	GM 280-M	55-65 LB. FT.	ENGINE MOUNT TO FRAME BRKT. (L-6)	
9418931-N	3/8-16	GM 286-M	25-40 LB. FT.	(L) FRAME TO ENGINE MOUNTING BRACKET (L6 & V8)	
9419073-B	7/16-14 X 1.00	GM 280-M	45-60 LB. FT.	TRANS. MOUNT ASSY TO SUPPORT	
9419073-B	7/16-14 X 1.00	GM 280-M	45-60 LB. FT.	MOUNT ASSY TO TRANSMISSION	

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

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

CHART - WRENCH TORQUE (CHASSIS)									
TITLE DATE MAR. 27 1967 DR. BY BILL SCHMIDT CHECKED J. FINES APPR. J.B. [Signature]					FIRST USED 1968		OLD SMOBILE PRODUCT INFORMATION MANUAL MANUAL SECTION 0		PAGE 103
REVISIONS: <ul style="list-style-type: none"> 5-6-67 M WAS 30-60 LB FT. 5-26-67 L APPLICATION REVISED 5-11-67 E WAS 9422277-N 4-11-67 D WAS 9418931-N 4-11-67 C LINE REVISED 4-11-67 B LINE REMOVED 4-11-67 A WAS MANUAL PAGE 101 					SERIALS A		PART NO. 400274		
DATE	SYM	REVISION	DR	CK.	DATE	SYM	REVISION	DR	CK.

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

ASSEMBLY
LINE
INSTALLATION
TORQUE

AUDIT TORQUE
ON
COMPLETED CARS

SHEET 3

GRP. #8

PART NO.	DESCRIPTION	MATERIAL	TORQUE	APPLICATION
3837950-SC	#10-16 X 5/16	STEEL	20-25 LB. IN.	VENT HOSE TO UNDERBODY
1386291-B	3/8-16 X 3 3/4 ^(J)	GM 280-M	96-120 LB. IN.	FUEL TANK TO UNDERBODY (EXC. S.W.)
1361640-N	3/8-16	GM 286-M	96-120 LB. IN.	FUEL TANK TO LOWER STRAP (S.W. ONLY)
399739-B	3/8-16 X 3 1/4	GM 280-M	96-120 LB. IN.	FUEL TANK TO UPPER STRAP (S.W. ONLY)
9419400-SC	1/4-14 X 1/2	GM 6010-M	25-35 LB. IN.	FUEL PIPE TO SPRING SEAT & SPRING CROSSBAR (EXC. EXT. S.W.)
9419400-SC	1/4-14 X 1/2	GM 6010-M	25-35 LB. IN.	FUEL PIPE TO FRAME
9422232-SC	5/16-12 X 5/8	GM 6010-M	120-180 LB. IN.	FUEL PIPE TO FRAME (EXT. S.W.)
9422277-N	3/8-16 (LOCK)	GM 286-M	10-18 LB. FT.	EXH. PIPE ASSY TO MANIFOLD (L-6 ONLY)
9418994-B	3/8-16 X 1 1/4	GM 280-M	10-18 LB. FT.	FRONT EXHAUST PIPE TO MANIFOLDS (V-8)
9418994-B	3/8-16 X 1 1/4	GM 280-M	10-18 LB. FT.	CROSS OVER PIPE TO MANIFOLDS (V-8)
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	INT. PIPE TO FRNT. OF MUFFLER (V-8)
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	EXHAUST PIPE TO MUFFLER (L-6 ONLY)
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	MUFFLER TO RESONATOR PIPE TO MUFFLER (EXT. S.W.)
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	MUFFLER TO RESONATOR PIPE TO RESONATOR (EXT. S.W.)
1363900-SC	#20-9 X 1 1/4	GM 275-M	108-144 LB. IN.	MUFFLER TO RESONATOR PIPE TO HANGER
1363900-SC	#20-9 X 1 1/4	GM 275-M	108-144 LB. IN.	HANGER ASSY TO FRAME
1363900-SC	#20-9 X 1 1/4	GM 275-M	108-144 LB. IN.	TAIL PIPE TO HANGER ASSY
1363900-SC	#20-9 X 1 1/4	GM 275-M	108-144 LB. IN.	TAIL PIPE TO SUPT.
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	PIPE & MUFFLER TO HANGER (V-8) & (442)
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	MUFF. TO RESON. PIPE TO RESONATOR
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	PIPE & MUFFLER TO HANGER (L-6)
9418901-SC	5/16-12 X 3/4	GM 6010-M	72-96 LB. IN.	SUPT. ASSY. TO BUMPER BRKT.

24 LB. IN. MIN. & BOLT MUST
EXTEND THROUGH NUT A MIN.
OF 1 1/4 INCH ^(K)

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

TITLE		CHART - WRENCH TORQUE (CHASSIS)	
DATE	MARCH 22, 1967	FIRST USED	1968
DR. BY	RODNEY DAVIS	OLDSMOBILE PRODUCT	INFORMATION MANUAL
CHECKED	J. L. JAMES	MANUAL SECTION	O
APPR.	J. L. James	PAGE	104
REF.		SERIES	A
		PART NO.	400274

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
451399-N	5/16-24	GM 286-M	15-25 LB. FT.	STEERING COLUMN TO STEERING GEAR	10-30 LB. FT.
9420821-N	3/8-24	GM 286-M	15-25 LB. FT.	STEERING COLUMN TO STEERING GEAR	10-30 LB. FT.
399803-B	7/16-14 X 4 7/16	GM 300-M	60-80 LB. FT.	STEERING GEAR TO FRAME	
9419751-N			15-20 LB. IN.	STEERING WHEEL EMBLEM TO RETAINER	
114496-N	1/2-20	GM 286-M	30-40 LB. FT.	STEERING WHEEL TO STEERING COLUMN SHAFT	25-60 LB. FT.
9419319-SC	#10-16 X 1/4			NEUTRAL START & BACK-UP SW TO COL. JACKET	
(*2)102646-N	7/16-20	GM 286-M	30-40 LB. FT.	TIE ROD END TO INTERMED. ROD	25-50 LB. FT.
9422275-N	5/16-18 (LOCK)	GM 286-M	15-25 LB. FT.	TIE ROD ADJUSTER	10-30 LB. FT.
(*2)102646-N	7/16-20	GM 286-M	30-40 LB. FT.	PITMAN & IDLER ARMS TO INTERMED ROD	25-50 LB. FT.
9422297-N	3/8-16 (LOCK)	GM 301-M	35-45 LB. FT.	IDLER ARM TO FRAME	30-55 LB. FT.
(*2)102646-N	7/16-20	GM 286-M	30-40 LB. FT.	TIE ROD END TO STEERING ARM	25-50 LB. FT.
5667628-N	7/8-14	SAE 1018-1045	120-160 LB. FT.	PITMAN ARM TO STEERING GEAR	100-200 LB. FT.
358501-N	7/16-20	GM 286-M	60-80 LB. FT.	WHEEL	50-90 LB. FT.
9425578-SC	#8-32 X 5/8	GM 6010-M	15-25 LB. IN.	TURN SIGNAL LEVER TO SWITCH ASSY.	
9422280-N	7/16-20 (LOCK)	GM 286-M	45-55 LB. FT.	STABILIZER TO REAR LOWER ARM	
9420821-N	3/8-24	GM 286-M	11-16 LB. FT.	PUSH ROD CLEVIS	
186619-B	3/8-16 X 1 1/8	GM 300-M	60-80 LB. FT.	ROTOR TO HUB	
193221-B	7/16-14 X 1 1/4	GM 300-M	60-80 LB. FT.	CALLER ASSY TO ADAPTER BRACKET	
3848408SC	5/16-18 X 1/2	GM 275-M	14-22 LB. FT.	BRACKET TO METER VALVE	
1381744-B	5/8-18 X 7/8	GM 300-M	110-140 LB. FT.	ADAPTER BRACKET TO KNUCKLE	
9418931-N	3/8-16	GM 286-M	15-20 LB. FT.	MASTER CYL. TO POWER CYL. (LANSING PLANT ONLY)	
1385922-B	1/2-20 X 2 5/8	GM 300-M	70-90 LB. FT.	BRAKE & STEERING ARM TO KNUCKLE (REAR)	
1363900-SC	#20-9 X 1 1/4	GM 275-M	108-144 LB. IN.	CLAMP SHROUD TO EXH. PIPE	
1359887-N	5/16-18	GM 286-M	132-180 LB. IN.	PIPE & MUFFLER TO HANGER (34 & 36 EXC. EXT. SW)	
9419056-B	3/8-16 X 2	GM 280-M	10-18 LB. IN.	INTERMEDIATE TO CROSS OVER PIPE	
9420825-SC	5/16-18 X 9/16	GM 6010-M	120-180 LB. IN.	STARTER CABLE BRACKET TO FRAME	

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

SHEET 4

<table border="0"> <tr> <td>REV. 2267</td> <td>K</td> <td>REVISED</td> <td>DATE 8-11-67</td> </tr> <tr> <td>REV. 2267</td> <td>U</td> <td>GRR JLG REMOVED</td> <td>DATE 8-11-67</td> </tr> <tr> <td>REV. 2267</td> <td>H</td> <td>HAS 423333 SCREW</td> <td>DATE 8-10-67</td> </tr> <tr> <td>REV. 2267</td> <td>G</td> <td>GRR 35J58 + 35J L6 ADDED</td> <td>DATE 8-10-67</td> </tr> <tr> <td>REV. 2267</td> <td>F</td> <td>GRR 35J55 REMOVED</td> <td>DATE 8-10-67</td> </tr> </table>				REV. 2267	K	REVISED	DATE 8-11-67	REV. 2267	U	GRR JLG REMOVED	DATE 8-11-67	REV. 2267	H	HAS 423333 SCREW	DATE 8-10-67	REV. 2267	G	GRR 35J58 + 35J L6 ADDED	DATE 8-10-67	REV. 2267	F	GRR 35J55 REMOVED	DATE 8-10-67	<table border="0"> <tr> <td>REV. 2267</td> <td>C</td> <td>1385922-B ADDED</td> <td>DATE 8-11-67</td> </tr> <tr> <td>REV. 2267</td> <td>D</td> <td>GER #10 ADDED</td> <td>DATE 8-11-67</td> </tr> <tr> <td>REV. 2267</td> <td>C</td> <td>GER 35J55 ADDED</td> <td>DATE 8-11-67</td> </tr> <tr> <td>REV. 2267</td> <td>B</td> <td>HAS 9422277-N</td> <td>DATE 8-11-67</td> </tr> <tr> <td>REV. 2267</td> <td>A</td> <td>9418931 REMOVED</td> <td>DATE 8-11-67</td> </tr> </table>				REV. 2267	C	1385922-B ADDED	DATE 8-11-67	REV. 2267	D	GER #10 ADDED	DATE 8-11-67	REV. 2267	C	GER 35J55 ADDED	DATE 8-11-67	REV. 2267	B	HAS 9422277-N	DATE 8-11-67	REV. 2267	A	9418931 REMOVED	DATE 8-11-67
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PART NO.	DESCRIPTION	MATERIAL	INSTALLATION TORQUE	APPLICATION	ASSEMBLY LINE	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	1 3/16-16	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)		

TITLE												CHART - WRENCH TORQUE (TRANS)								
DATE <u>MARCH 17, 1967</u>												FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE		
DR. BY <u>RODNEY DAVIS</u>												1968				0		112		
CHECKED <u>W.G. WEISS JR.</u>												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

PART NO.	DESCRIPTION	MATERIAL	INSTALLATION TORQUE	APPLICATION	ASSEMBLY
					LINE
9780422	5/16 - 18 x 3/4	GM 275-M	15 - 22 LB. FT.	STEERING COLUMN SUPPORT TO PLENUM HOOD LATCH ASSY TO UPPER TIE BAR HOOD RELEASE SPRING TO UPPER TIE BAR RADIATOR SUPPORT TO UPPER TIE BAR RADIATOR SUPPORT TO FAN SHROUD RADIATOR SUPPORT TO HEADLAMP ASSY RADIATOR GRILLE TO LAMP SUPPORT ASSY HEADLAMP SUPPORT TO FILLER PLATE RADIATOR LOWER DEFLECTOR EXT. TO DEFLECTOR FILLER PLATE TO SUPPORT ASSY BATTERY SUPPORT TO FILLER PLATE BATTERY SUPPORT TO LOWER TIE BAR FENDER BRACE TO LOWER TIE BAR	
(W) 9783400	1/4 - 14 x 3/4	GM 6010-M	30 - 45 LB. IN.	TOE PAN COVER INNER TO OUTER RADIATOR LOWER DEFLECTOR EXT. TO SUPT. ASSY TOE PAN COVER TO TOE PAN	
9425451	1/4 - 14 x 3/8	GM 6010-M	30 - 45 LB. IN.		
9417954	5/16 - 18	GM 286-M	15 - 22 LB. FT.	HOOD BUMPER TO SHROUD PANEL HOOD FRONT BUMPER TO SUPPORT ASSEMBLY	(Y)
3933052			45 - 60 LB. IN.	W/IS WIPER TRANS. ASSY TO BODY	
3851463	10 - 24 x 5/16	A. I. S. I. C-1010 OR C-1020	35 - 45 LB. IN.	W/IS WIPER MOTOR ATTACHING	
423595	10 - 24 x 1/2	SAE 1010 OR 1020	35 - 45 LB. IN. 12 - 18 LB. IN.	W/IS WIPER BRACKET ATTACHING BACK-UP LAMP SWITCH TO BRACKET BACK-UP LAMP SWITCH SHIELD TO BRACKET	
9428229	1/4 - 20 x 5/16	SAE 1010 OR 1020	35 - 45 LB. IN.	W/IS WIPER TRANS. ASSY TO BODY (RECESSED PARKO	
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	
5/8 - 18		GM 286-M	5 - 10 LB. IN.	SPEEDO CABLE COUPLING NUT TO SPEEDO	
7/8 - 18			20 - 80 LB. IN.	SPEEDO CABLE COUPLING NUT TO CRUISE CONTROL REC. OR TO TRANS.	
1359887	5/16 - 18	GM 286-M	(Z) 25 - 35 LB. IN. 15 - 22 LB. FT.	CONDENSER TO SUPPORT ASSY BATTERY SUPPORT TO FILLER PLATE	AB
9422273	1/4 - 20	GM 286-M	40 - 60 LB. IN. 60 - 69 LB. IN.	HOOD RELEASE LEVER TO LATCH SUPPORT RECEIVER DEHYDRATOR BRACKET TO SIDE SUPT.	
390314	CLAMP ASSY		18 - 26 LB. IN.	RADIATOR OUTLET HOSE	
569335	CLAMP ASSY		18 - 26 LB. IN.	RADIATOR OUTLET HOSE - ENG.	
400496	CLAMP ASSY		18 - 26 LB. IN.	RADIATOR INLET HOSE	
9419969	5/16 - 18 x 5/8	GM 275-M	15 - 22 LB. FT.	FAN SHROUD TO LOWER TIE BAR	
9419727	1/4 - 14 x 5/8	GM 6010-M	25 - 35 LB. IN. 10 - 12 LB. FT.	RECEIVER DEHYDRATOR CLAMP TO CONDENSER GRILLE TO RADIATOR SUPPORT ASSY GRILLE TO HOOD LATCH SUPPORT	
3891800	5/16 18 x 7/8	GM 275-M	15 - 22 LB. FT.	FILLER PLATE TO FENDER ASSY - REAR	
9427411	1/4 - 14 x 5/8	GM 6010-M	25 - 35 LB. IN.	LOWER DEFLECTOR TO TIE BAR	
388708	1/4 - 20 x 9/16	GM 280-M	60 - 90 LB. IN.	REGULATOR TO BRACKET	
397132 OPT.	1/4 - 20 x 9/16	GM 280-M	60 - 90 LB. IN.	REGULATOR TO BRACKET	
(AA) 402539	5/16 - 18 x 3/4	GM 275-M	10 - 15 LB. FT.	RADIATOR LOWER DEFLECTOR EXTENSION TO FENDER FENDER BRACE TO FENDER	
3837950	10 - 16 x 5/16		20 - 25 LB. IN.	GAS TANK GROUND WIRE TO UNDERBODY	
9419751	1/8 STAMPED	SPRING STEEL	10 - 15 LB. IN.	UPPER REAR MouldING TO FRONT FENDER	
9419756	3/16 STAMPED	SPRING STEEL	25 - 35 LB. IN.	MouldING TO FRONT FENDER ASSEMBLY TO FILLER PLATE TO RADIO RECEIVER ASSEMBLY	
7279805	7/16 - 28	C. D. STEEL	36 - 72 LB. IN.		

DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK
11/26/67		APPLICATION 24 REAR	KL	JL	11/26/67	Y	USAGE ADDED	KL	JL	11/26/67	S	TORQUE REVISED	KL	JL	11/26/67	H			
11/26/67	44	USAGE ADDED	KL	JL	11/26/67	Y	USAGE ADDED	KL	JL	11/26/67	R	APPLICATION ADDED	KL	JL	11/26/67	H			
11/26/67	Z	USAGE REMOVED	KL	JL	11/26/67	U	USAGE REMOVED	KL	JL	11/26/67	N	3891800 ADDED	KL	JL	11/26/67	H			
11/26/67	Y	USAGE ADDED	KL	JL	11/26/67	T	WHIS 7.5 LB. IN.	KL	JL	11/26/67	M	APPLICATION REMOVED	KL	JL	11/26/67	H			

CHART - WRENCH TORQUE (BODY)

TITLE: **1968**

DATE: **MARCH 23, 1967**

DR. BY: **R.R. STANLAKE**

CHECKED: **J. FINE**

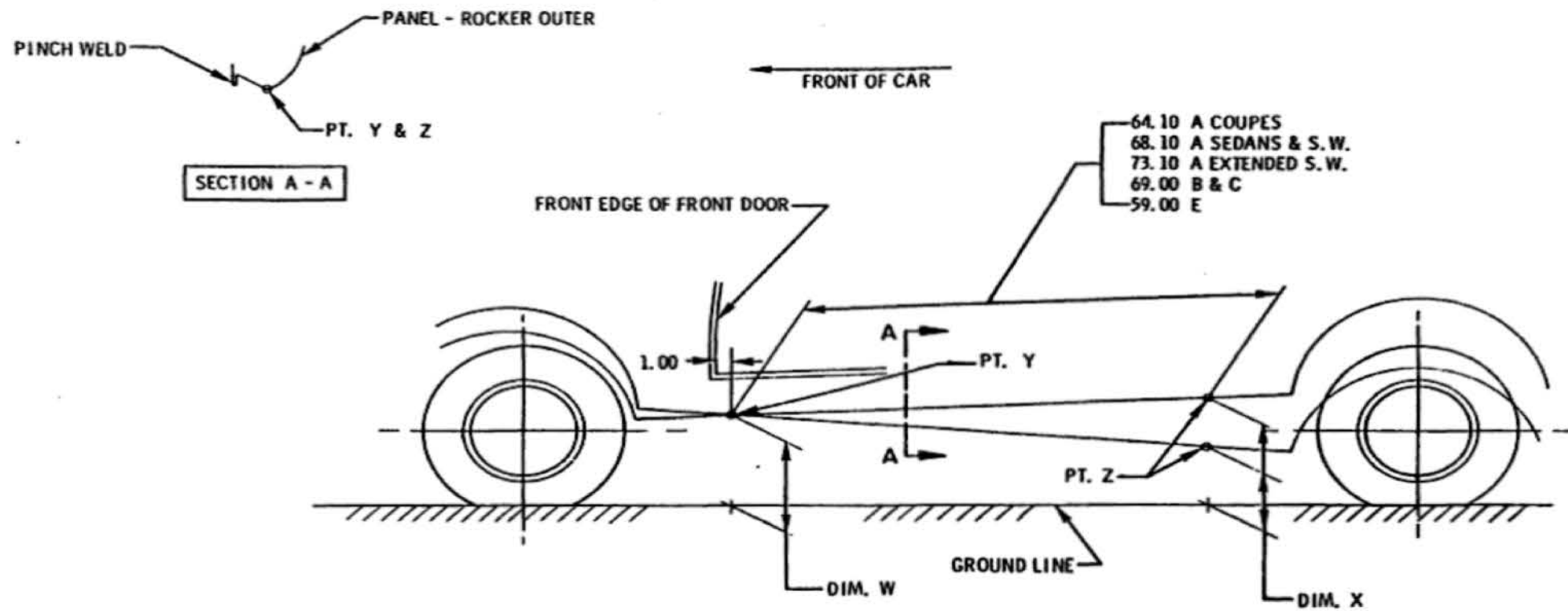
APPR.:

APPR.:

OLDSMOBILE PRODUCT INFORMATION MANUAL

MANUAL SEC. **0** PAGE **113**

SERIES **A** PART NO. **401006**



CHECK POINTS Y & Z LOCATED AS SHOWN ON BOTTOM OF ROCKER PANEL

ROCKER SPECIFICATION: DIM. X = DIM. W + 1.00 AT 5 PASSENGER LOAD
- 1.80 (300 LB. FRONT SEAT & 450 LB. REAR SEAT)

ROCKER PANEL SLOPE MUST BE MAINTAINED WITHIN LIMITS SHOWN IN ORDER TO COMPLY WITH MOTOR VEHICLE SAFETY STANDARD NO. 111

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
															CHART - ROCKER PANEL SLOPE SPECIFICATION	1968		0	119
															DATE FEB 19, 1968				
															DR. BY DON MALKIN				
															CHECKED J. FINE				
															APPR. R. Gensel		SERIES	PART NO.	
																	A-B-C-E	403574	

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

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MATERIALS TO BE PLACED IN GLOVE BOX IF APPLICABLE		
PART NO.	DESCRIPTION	GROUP
400856	OWNERS OPERATION MANUAL EXC. VISTA-CRUISER S.W.	"0"
400857	OWNERS OPERATION MANUAL VISTA-CRUISER S.W.	"0"
3406213	OWNER OPERATION MANUAL	96-0
731038	OWNER PROTECTION POLICY BOOK	96-0
400855	OWNER PROTECTION POLICY BOOK	"0"
401582	CHECK SHEET PRE-DELIVERY (2 REQ'D)	"0"
7034679 (1)	KEY-DOOR & IGNITION & S.W. REAR WINDOW	1A1
7034701 (1)	KEY-GLOVE BOX & TRUNK & CONSOLE	1A1
7792218	POWER FOLDING TOP GUIDE BOOK (CONVERTIBLES)	"0"
401172	LICENSE PLATES PARTS PACKAGE (EXCEPT S.W.)	14C
400052	LICENSE PLATES PARTS PACKAGE (S.W.)	14C
402963	CARD-SHOULDER BELT STOWAGE (EXC. CONV.)	1A2E
3171538	SUPERLIFT - OWNERS GUIDE	35G66
401668	ALBUM-STEREO TAPE	35U57
3937278	BOOKLET-C. C. S.	"0"

(CANADIAN CARS ONLY)

(CANADIAN CARS ONLY)

MATERIALS TO BE PLACED IN TRUNK, (OR BODY OF S.W.), IF APPLICABLE			
PART NO.	DESCRIPTION	GROUP	PACKAGING SPEC. NO.
398628	ANTENNA MAST	35U63-69	
395225	HUB CAPS	10B	
399466	WIRE WHEEL COVERS	35N95	
397932	TIRE VALVE EXTENSION PACKAGE		S-1579
399432	WHEEL DISC ASSEMBLY	35PA1	AND
397932	TIRE VALVE EXTENSION PACKAGE		S-1598
399472	WHEEL DISCS	35P01	
398936	TIRE VALVE EXTENSION PACKAGE		
399340	WHEEL DISCS (DELUXE)	35P02	
397932	TIRE VALVE EXTENSION PACKAGE		
★ ★	FRONT FLOOR MATS (AUXILIARY)	35B32	
★	REAR FLOOR MATS (AUXILIARY)	35B33	
398575	FRONT LICENSE PLATE SUPPORT	14C	
982950	ROOF DEFLECTOR PACKAGE (EXC. VISTA CRUISER)	35C51	
982951	ROOF DEFLECTOR PACKAGE (VISTA CRUISER)	35C51	
1381734	WHEEL TRIM RING PACKAGE	35P05	

U

W

V

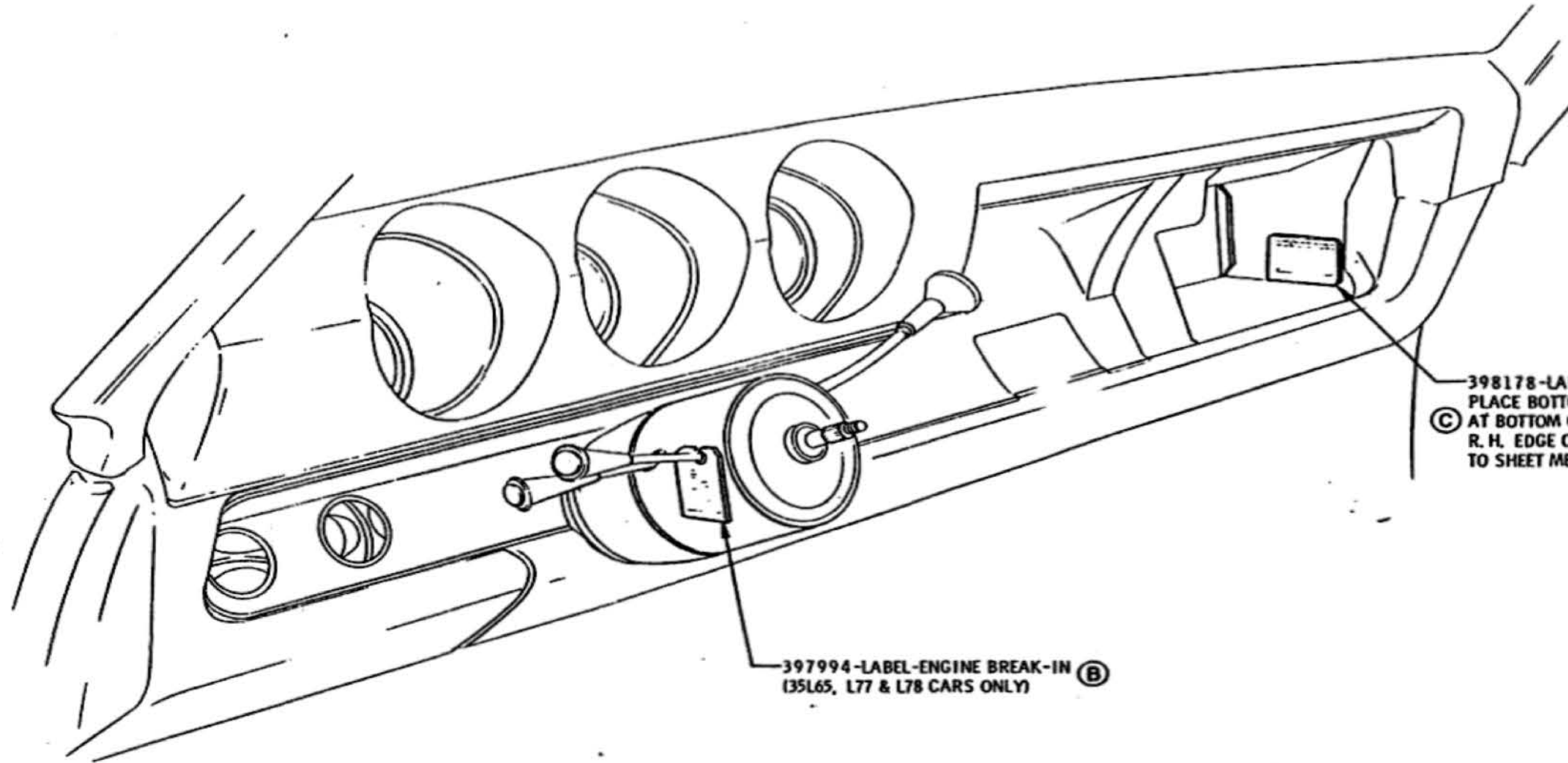
(1) INSERT THESE ITEMS TOGETHER IN 3933878 -ENVELOPE

NOTE: PACKAGE SPECIFICATIONS ARE ISSUED BY METHODS PACKAGING DEPT.

★ ★ SEE CHART 387900 FOR PART NO'S. & COLORS

★ SEE CHART 383448 FOR PART NO'S. & COLORS

REVISIONS										TITLE				FIRST USED		MANUAL SECTION		PAGE	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
					1-21-68	U	3182686 WARN CARD REMOVED												
					1-21-68	T	11AS 394516 CHECK SHEET												
					1-25-68	S	NOTE REMOVED												
		4-26-68	W		1-10-68	R	402963 CARD ADDED												
		7-9-68	V		7-11-68	P	WAS 401571 BOOK												
										LOOSE PARTS STOWAGE				1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		0 120	
														SERIES A		PART NO. 398162			

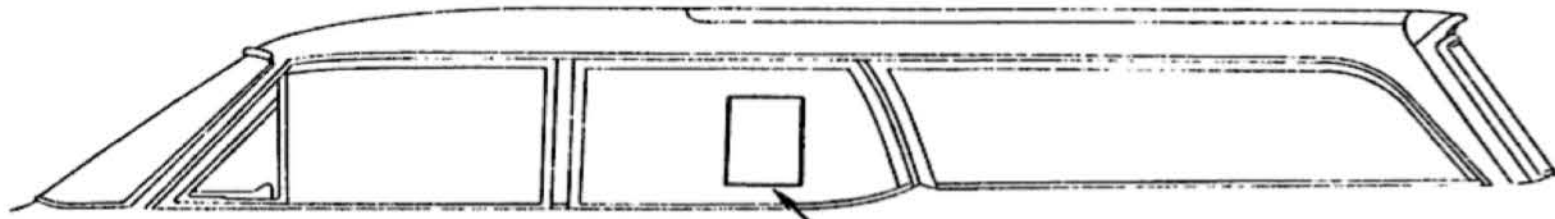


398178-LABEL-RADIAL PLY TIRES
PLACE BOTTOM EDGE OF LABEL
AT BOTTOM OF GLOVE BOX AND
R. H. EDGE OF LABEL ADJACENT
TO SHEET METAL FLANGE.

397994-LABEL-ENGINE BREAK-IN
(35L65, L77 & L78 CARS ONLY)

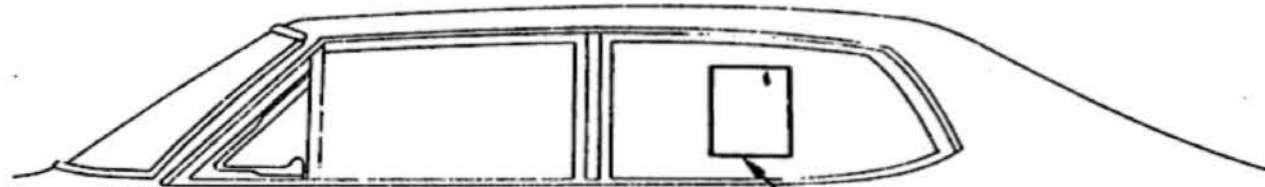
LOCATION OF INSTRUCTION TAGS AND LABEL

REVISION											TITLE		LABELS AND TAGS							
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	
							6-6-67	D	VIEW REMOVED	BP	DT					1968		0	121	
							6-6-67	C	WAS 395530-TI LABEL	BP	DT									
							3-31-67	B	TAGS & USAGE REVISED	BP	DT									
							3-23-67	A	FUEL TAG NO. REMOVED	BP	DT									
																REF. 35560-108-K30-35477-70 EA	SERIES A	PART NO. 398162		



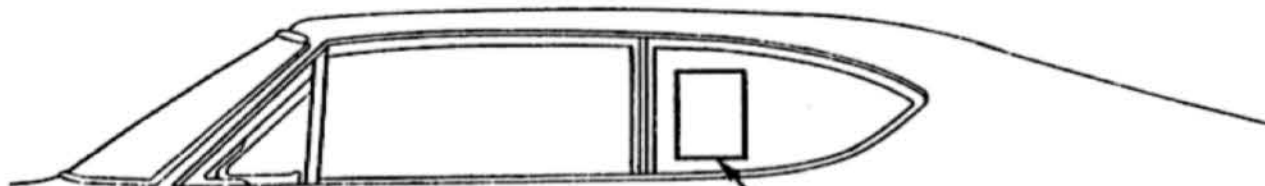
383831-LABEL

STATION WAGON MODELS



383831-LABEL

4 DR. MODELS



383831-LABEL

2 DR. MODELS

AFFIX LABEL ON INSIDE OF WINDOW IN POSITION SHOWN

RETAIL PRICE LABELS

TYPING REQUIREMENTS:

KEELOX 41-75 (BLACK) OFFSET SILK RIBBON (FOR TYPEWRITERS)

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

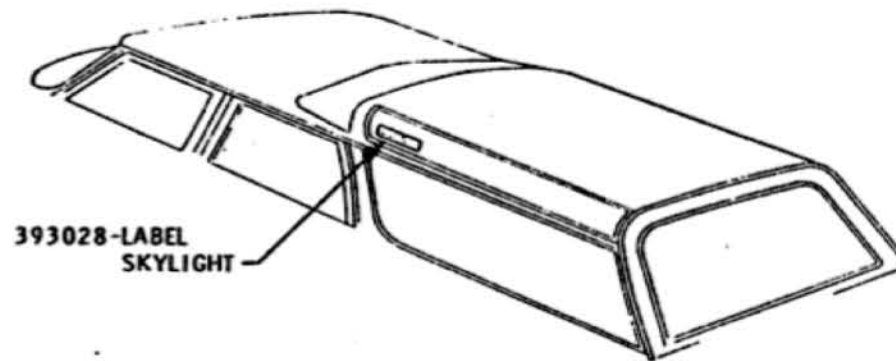
RIBBON MUST BE REPLACED AS SOON AS IT STARTS TO LOSE ITS ORIGINAL DARKNESS.

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

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.

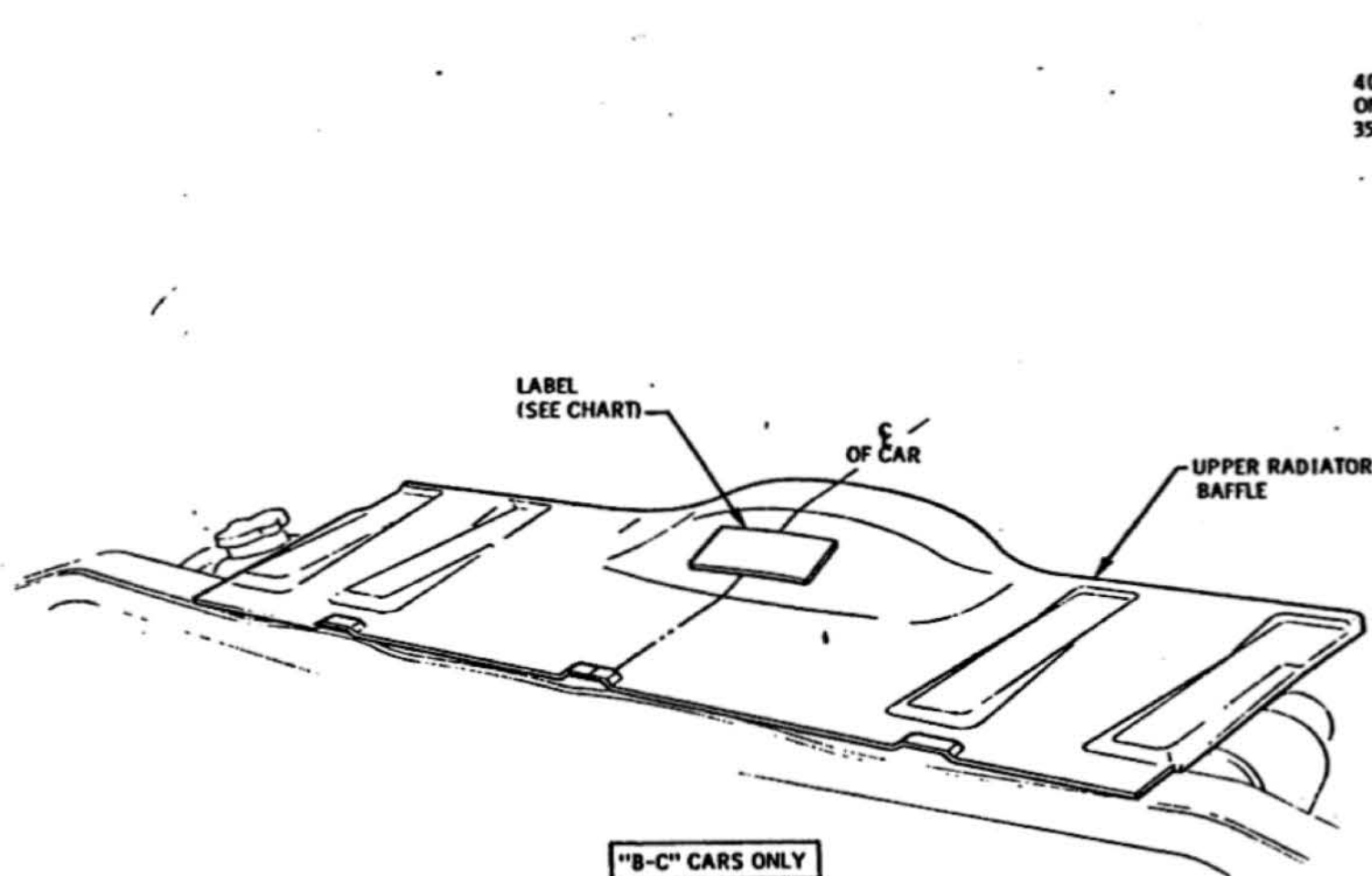


393028-LABEL SKYLIGHT

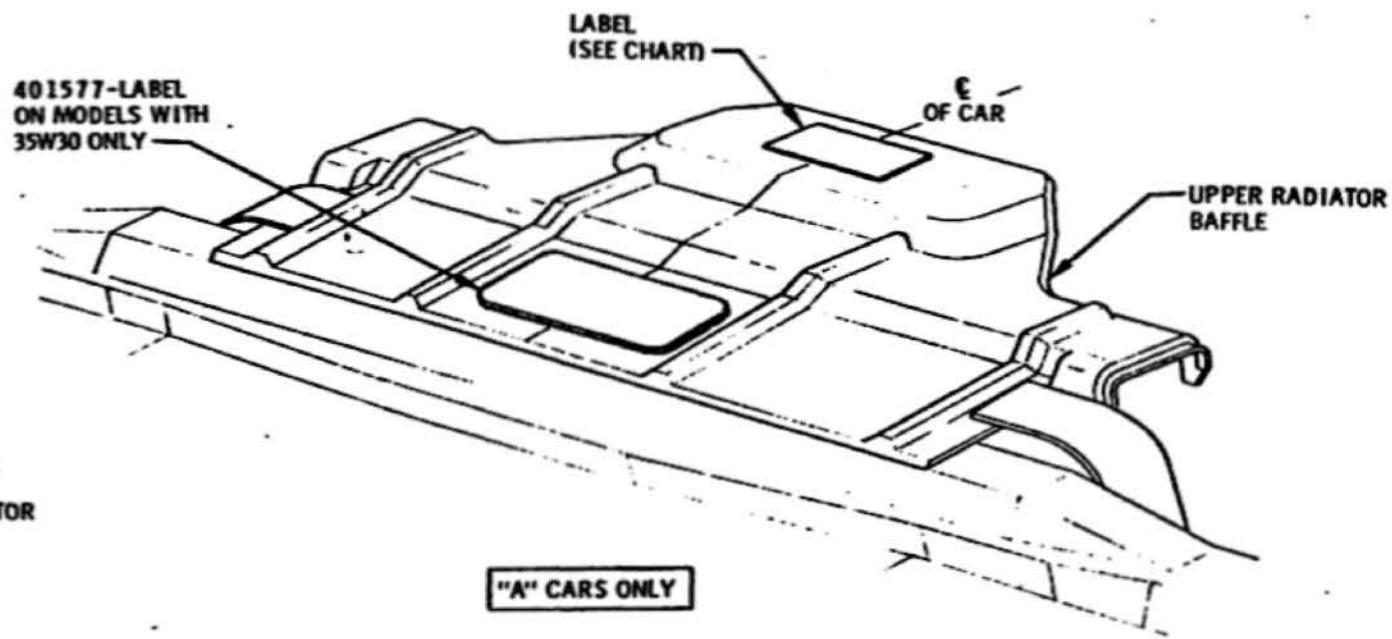
SKYLIGHT LABEL FOR EXTENDED WAGONS

AFFIX LABEL ON OUTSIDE OF GLASS IN POSITION SHOWN

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
													DATE FEB. 28 1967	1968		0	123
													DR. BY P. J. H. 125-4	REF. 14 F. 1AEE	SERIES A	PART NO. 398162	
													CHECKED J. H. 125-4				
													APPR.				



"B-C" CARS ONLY

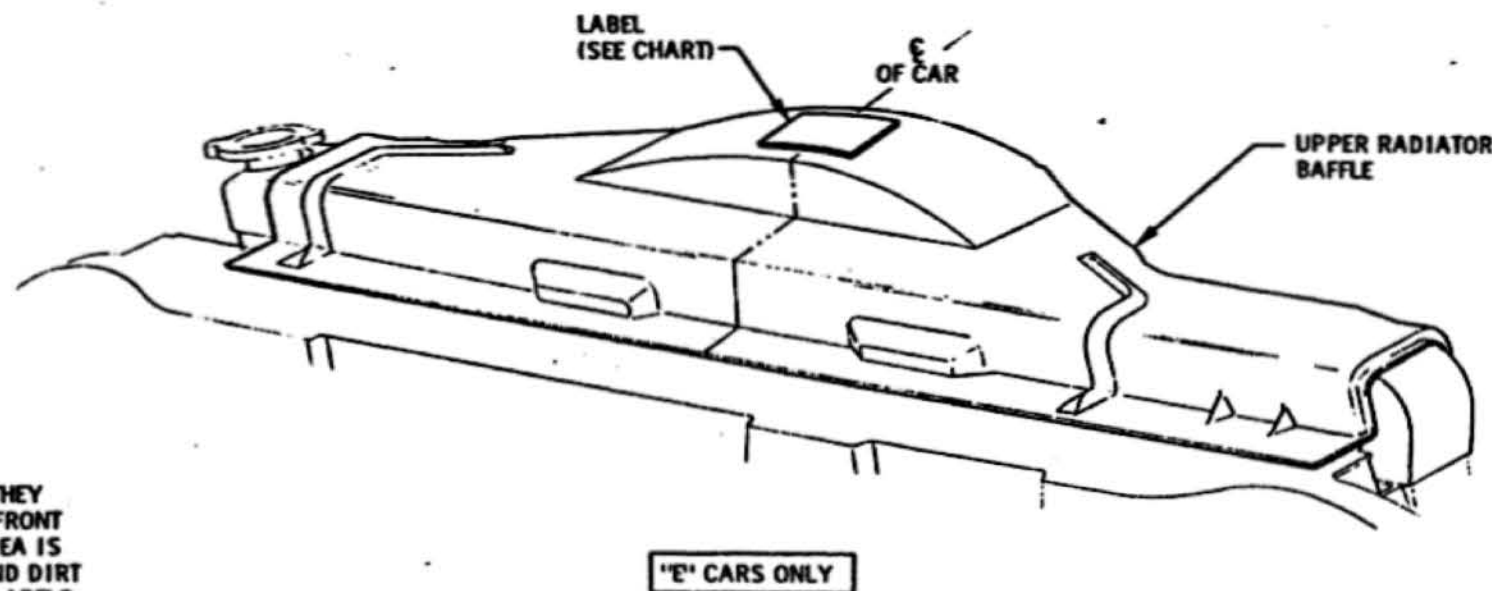


"A" CARS ONLY

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)

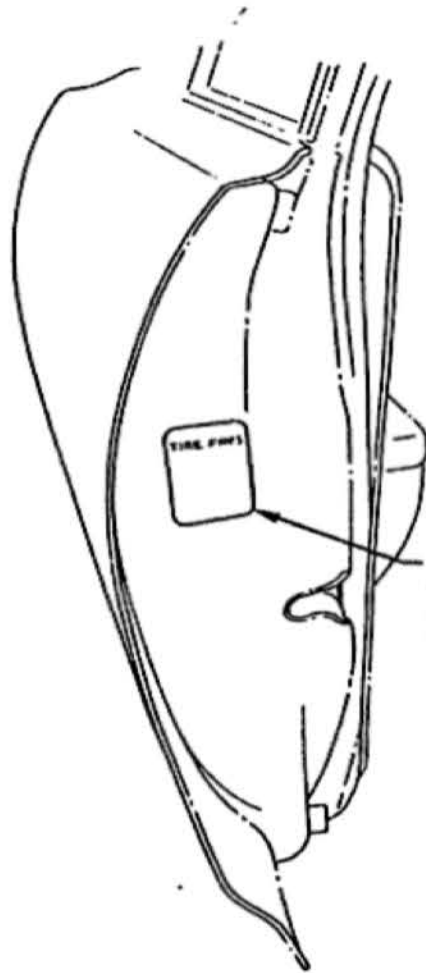
(H)



"E" CARS ONLY

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

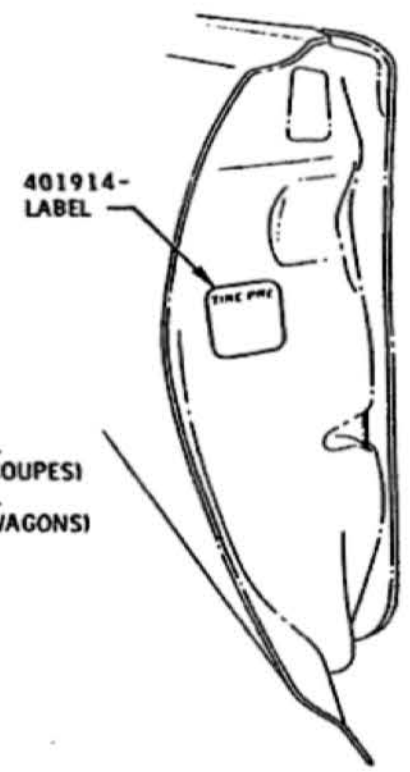
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					8-22-68	H2	CHART REVISED			7-27-67	D	CHART REVISED				DATE MAY 18, 1967	1968		0	124
					11-15-67	G2	CHART REVISED			6-29-67	S	CHART REVISED				DR. BY P. J. MESSY				
					10-10-67	F	PART NO. 5 REVISED			6-6-67	A	CHART REVISED				CHECKED P. J. MESSY	REF. 6B			
																		SERIES	PART	
																		AB-CE	398162-3-4	



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

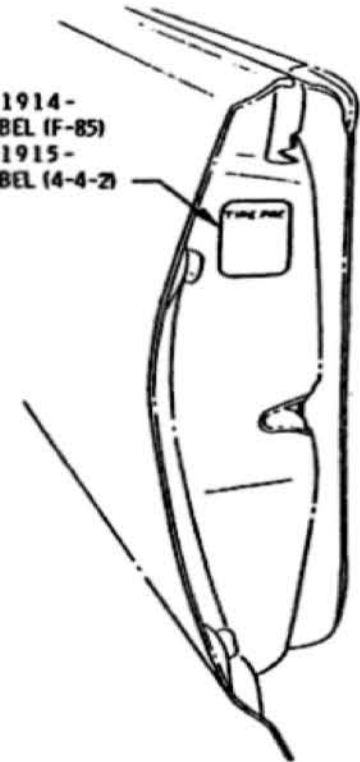
**ALL STATION WAGONS
AND F-85 SEDANS & COUPES**

(STATION WAGON SHOWN,
SEDANS SIMILAR)



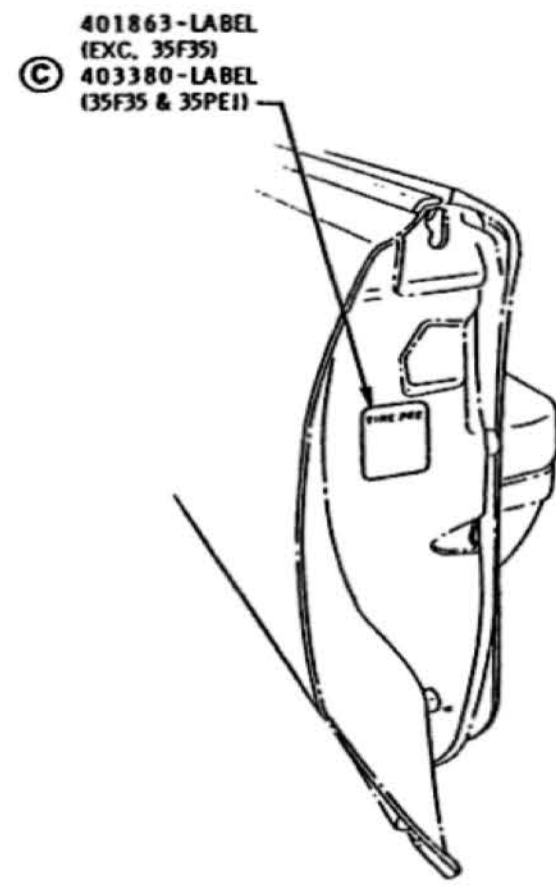
401914-LABEL

**F-85 4 DR.
HARDTOP**



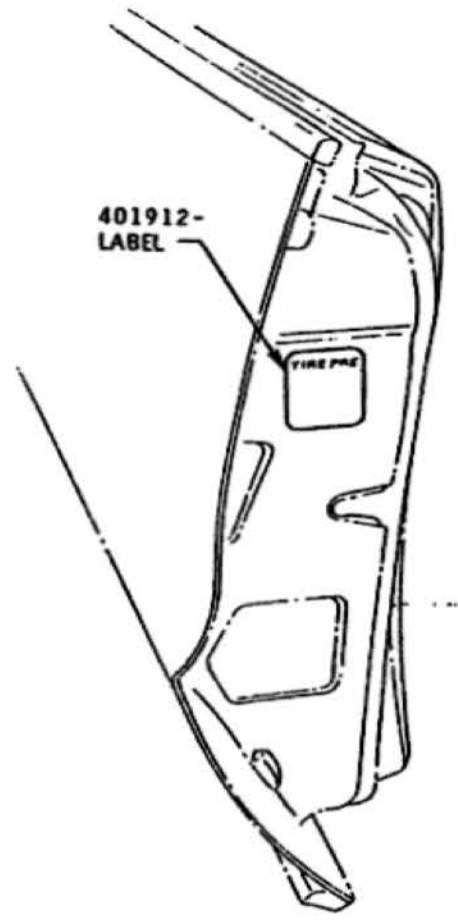
401914-LABEL (F-85)
401915-LABEL (4-4-2)

**F-85 2 DR.
HARDTOPS
AND CONVERTIBLES**



© 401863-LABEL
(EXC. 35F35)
403380-LABEL
(35F35 & 35PE1)

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

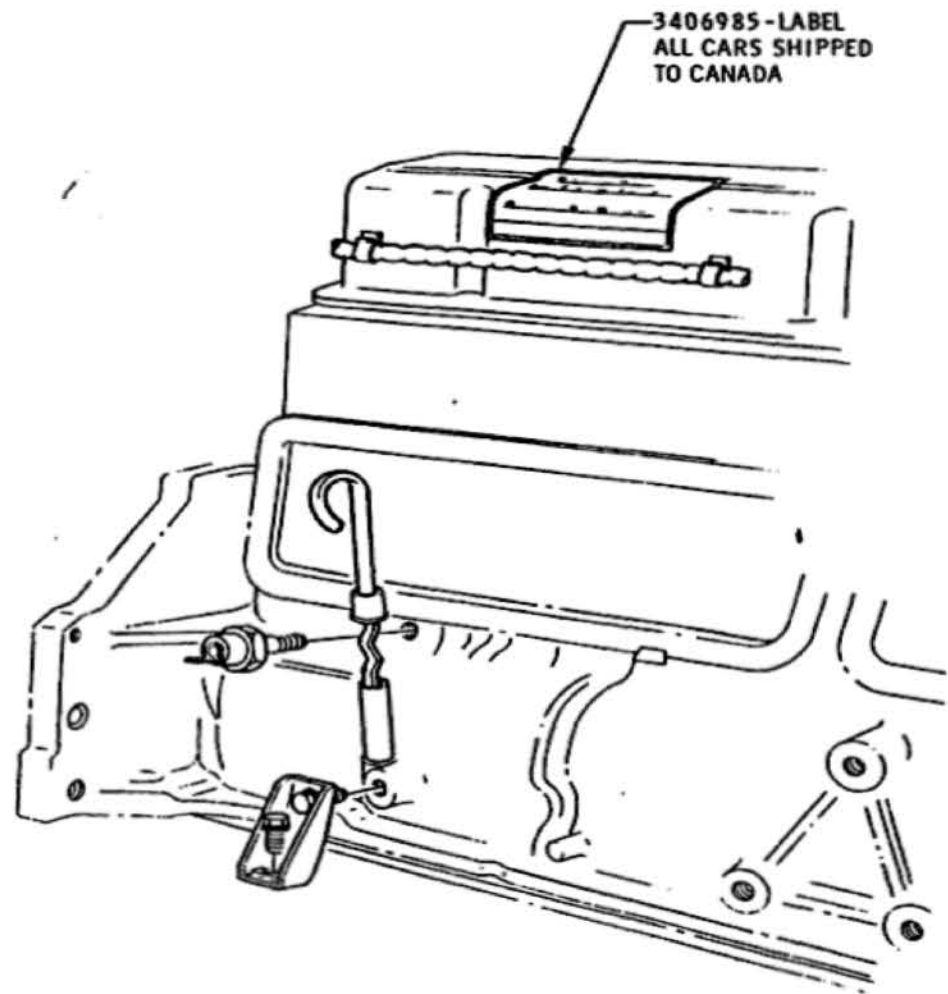


401912-LABEL

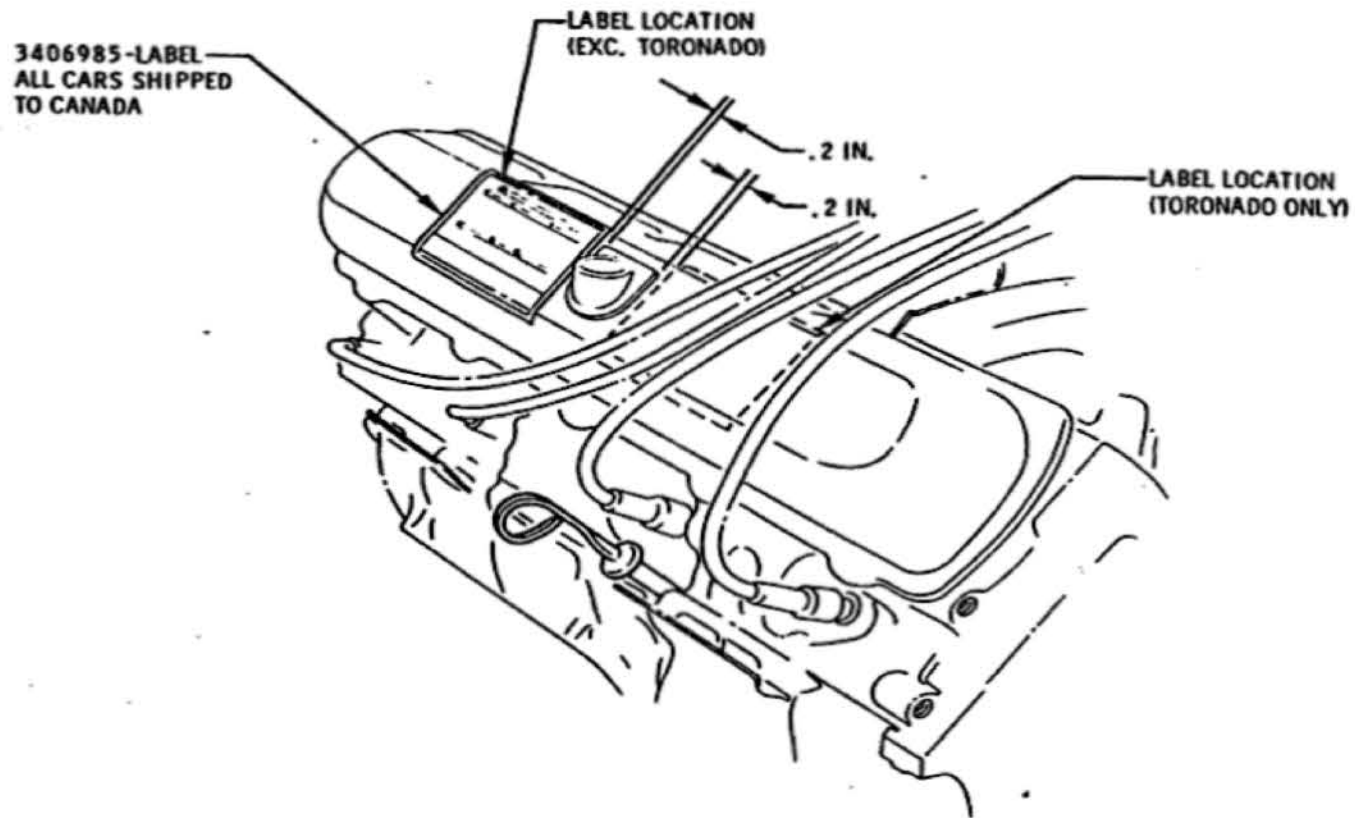
TORONADO

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

										TITLE		LABEL - TIRE PRESSURE			
										DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 0	PAGE 125	
										2-26-68	1968				
										C	DATE				
										9-21-67	DR. BY				
										B	APPR.				
										8-21-67	CHECKED				
										A	APPR.				
										401630-LABEL ADDED					
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	SERIES	PART	
													A-BC-E	398162-3-4	



L6



V8

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

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

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

R. GARROLL, INC. 1968

NAME OF INSTALLATION	INSTALLATION REFERENCE NUMBER	PACKAGE NUMBER	TEMPLATE PART NUMBER	TEMP. DWG. SIZE	DESCRIPTION OF TEMPLATE
ANTENNA - MANUAL	401207	982965	400811	B	FENDER DRILLING - FRONT
ANTENNA - ELECTRIC	401208	982966 (EXC. COUPE) 982967 (COUPE)	400933 400935 400934 401096	D C C C	FENDER DRILLING - REAR (CONV.) FENDER DRILLING - REAR (4 DOOR) FENDER DRILLING - REAR (COUPE) INSTRUMENT PANEL CUTOUT
CARRIER - LUGGAGE (DECK LID)	401436	983002			
CARRIER - SKI (DECK LID)	393897	982740			
CARRIER - LUGGAGE (STA. WGN.)	401481	982904 (35, 3600) 982890 (4800)			
CARRIER - SKI (STA. WGN.)	401548	982997			
CLOCK	401296	982897			
CRUISE CONTROL	401209	982962			
DEFLECTOR - ROOF (STA. WGN.)	401355	982950 (REG. WGN.) 982951 (VISTA)			
DEFOGGER - REAR WINDOW	401210	982960	401096	C	INSTRUMENT PANEL CUTOUT
LAMP - COURTESY	401211	982936	401096	C	INSTRUMENT PANEL CUTOUT
LAMP - GLOVE BOX	401212	982934			
LAMP - TRUNK	401234	982851			
LAMP - UNDERHOOD	401108	982935			
LATCH - TRUNK RELEASE	401213	982998			
LOCK - DOOR SAFETY	401547	983005			
LOCK - SPARE WHEEL	401226	982995			

NAME OF INSTALLATION	INSTALLATION REFERENCE NUMBER	PACKAGE NUMBER	TEMPLATE PART NUMBER	TEMP. DWG. SIZE	DESCRIPTION OF TEMPLATE
MIRROR - OUTSIDE - R. H.	401067	982932	400932	D	R. H. DOOR PANEL DRILLING
MIRROR - REMOTE	401214	982947	401255	C	DOOR TRIM PANEL CUTOUT
MIRROR - VISOR VANITY	401480	983003			
RADIO	401082	982976 (DELUXE) 982977 (AM-FM)			
SPEAKER - REAR SEAT	401215	982985 (EXC. SW - CONV. & CUTLASS SUPREME) 982986 (CUTLASS SUPREME) 982987 (CONV.) 982988 (STA. WGN.)			
TAPE PLAYER	401714	982988 (STA. WGN.)	401746	B	TRIM PANEL CUTOUT
AUX OIL COOLER	401382	230517			
TISSUE DISPENSER	401939	983009			
POWER BRAKE L-6	230559	982952			
POWER BRAKE V-8	230560	982953			
POWER STEERING L-6	230562	982955			
POWER STEERING V-8	230563	982957			
FUEL FILTER (1964 THRU 1968)	230586	230585			

Ⓐ

Ⓒ

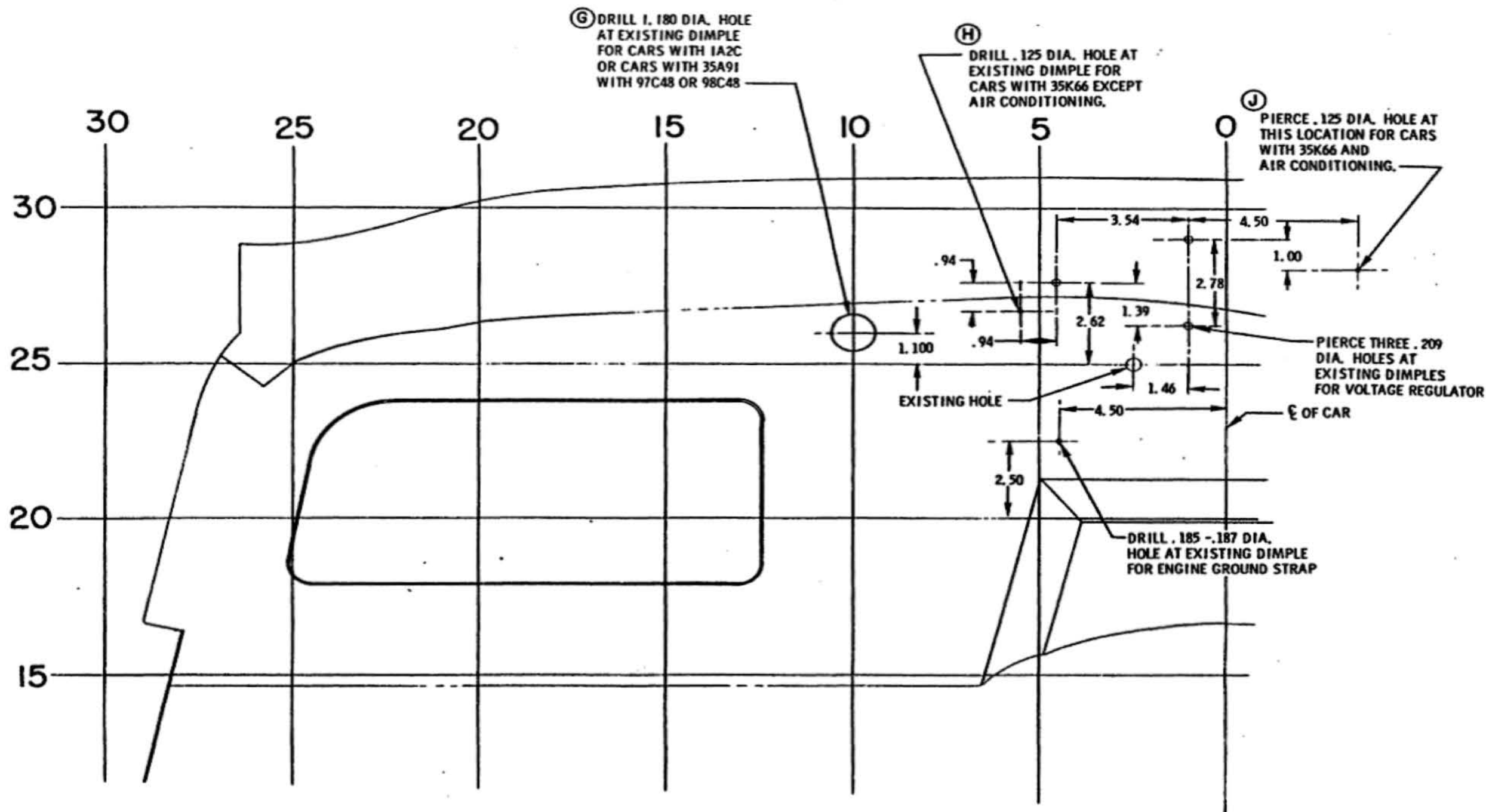
Ⓑ

SERVICE DEPARTMENT TEMPLATES			
YEAR	TEMPLATE NUMBER	NAME	MODEL USAGE
1968	230566	SIDE MARKER LAMP	ALL EXCEPT MODELS WITH WOOD GRAIN APPLIQUE

TITLE										CHART - DEALER INSTALLATIONS AND TEMPLATES				
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
					11-9-67	C	INSTALLATIONS ADDED							
					10-21-67	B	SERVICE TEMP CHART ADD'D							
					9-18-67	A	INSTALLATION ADDED							

FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
1968		0	128

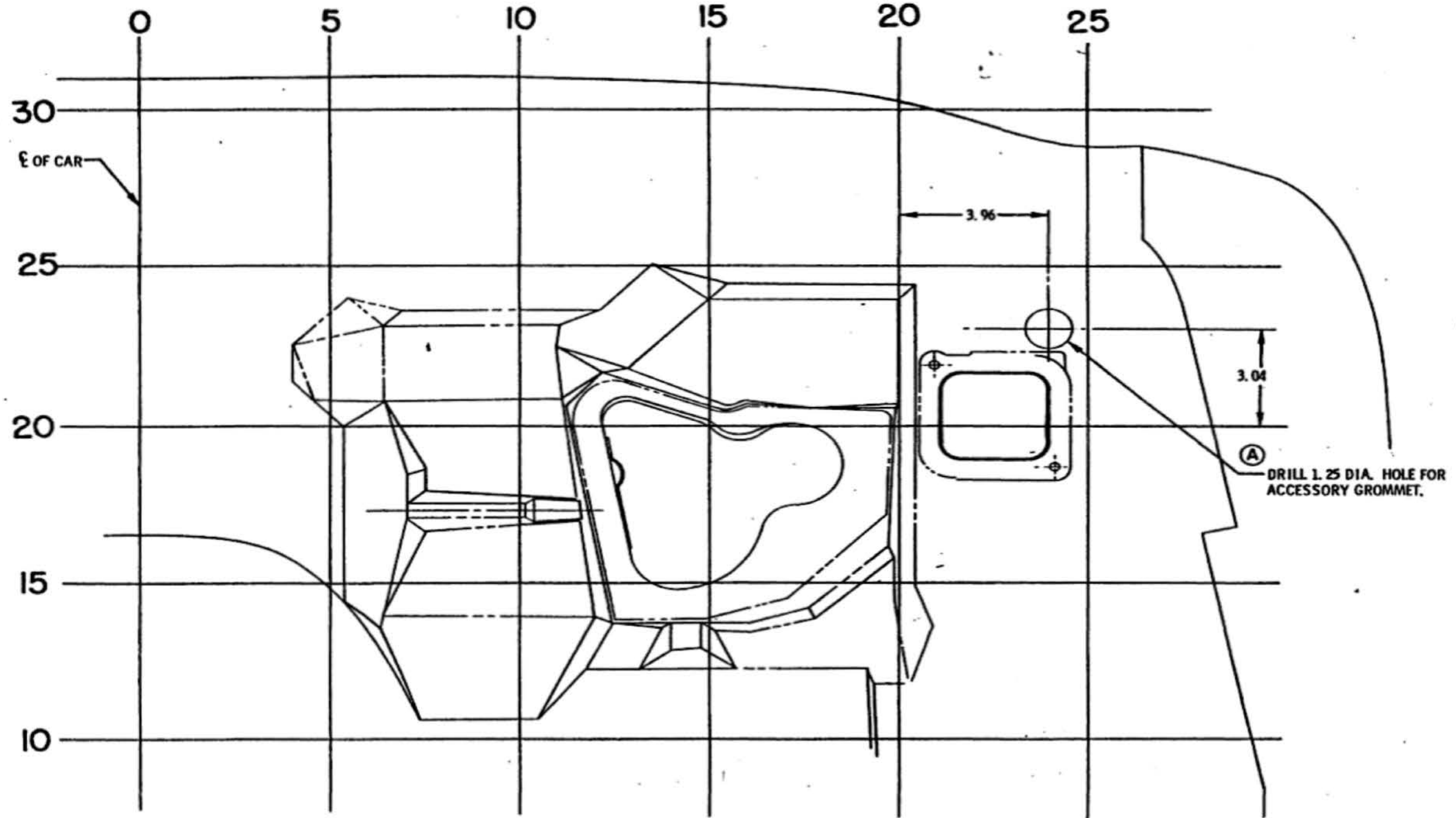
REF.	SERIES	PART NO.
	A	398162



SHEET 1 OF 7

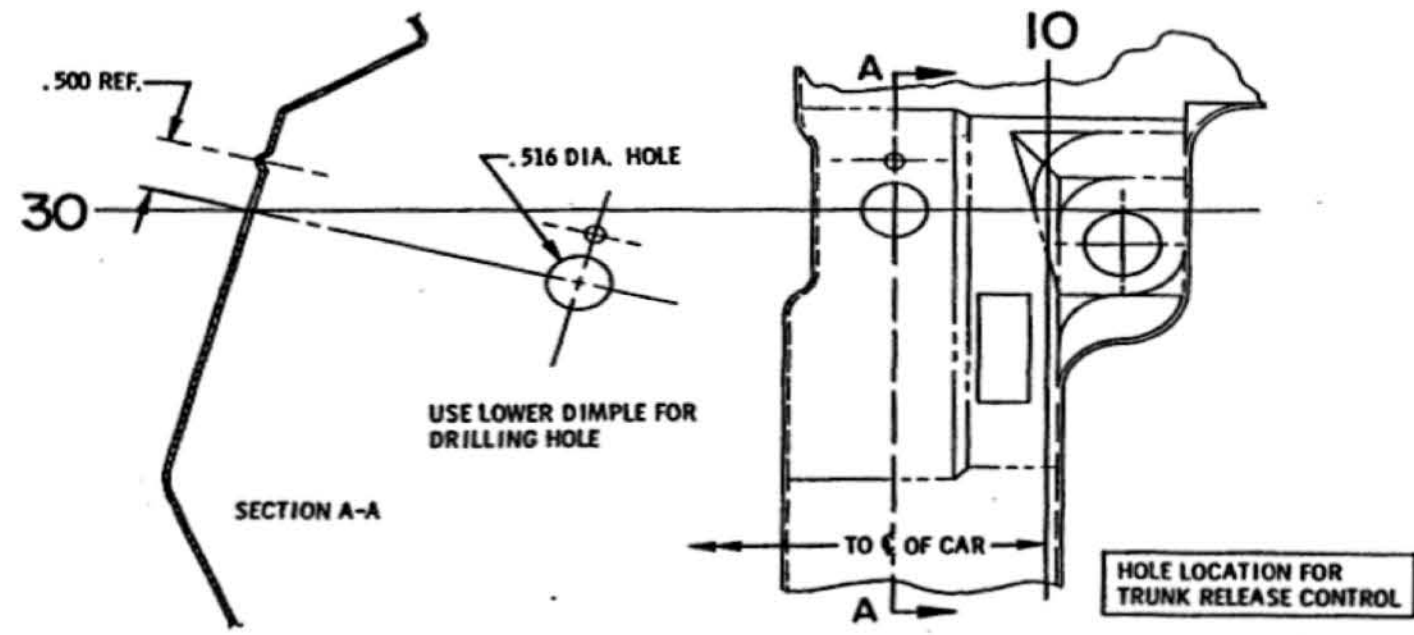
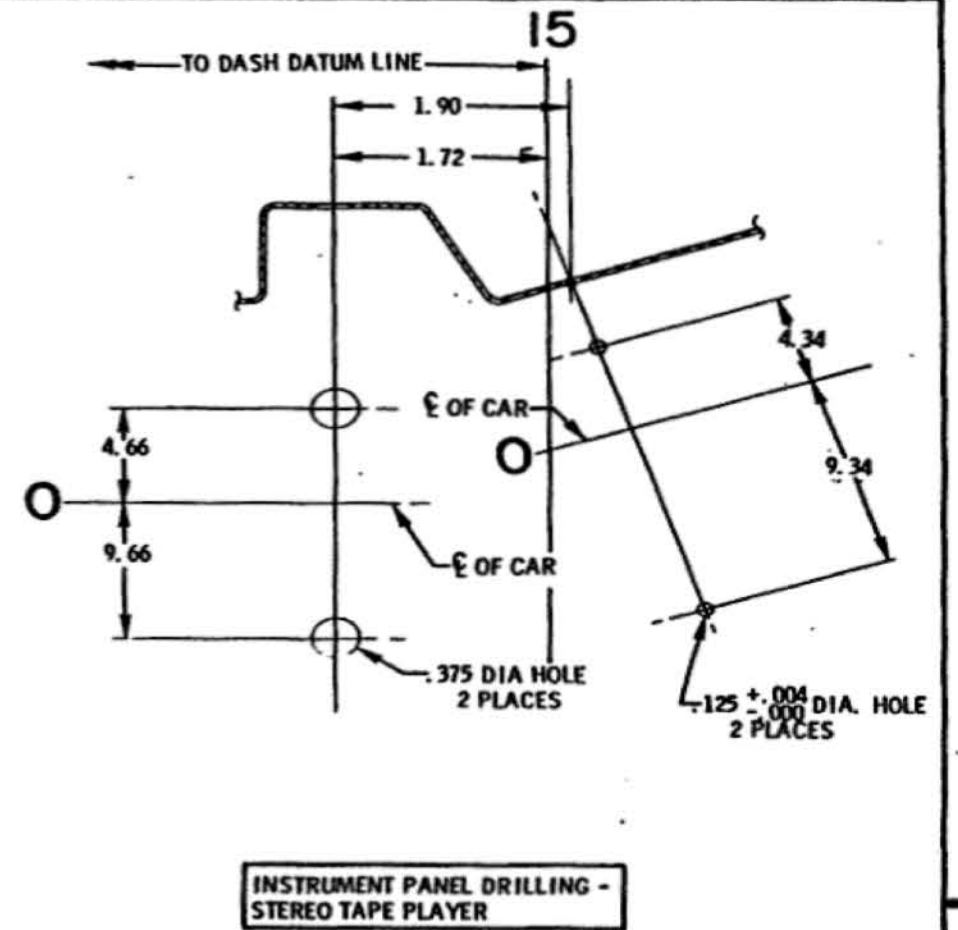
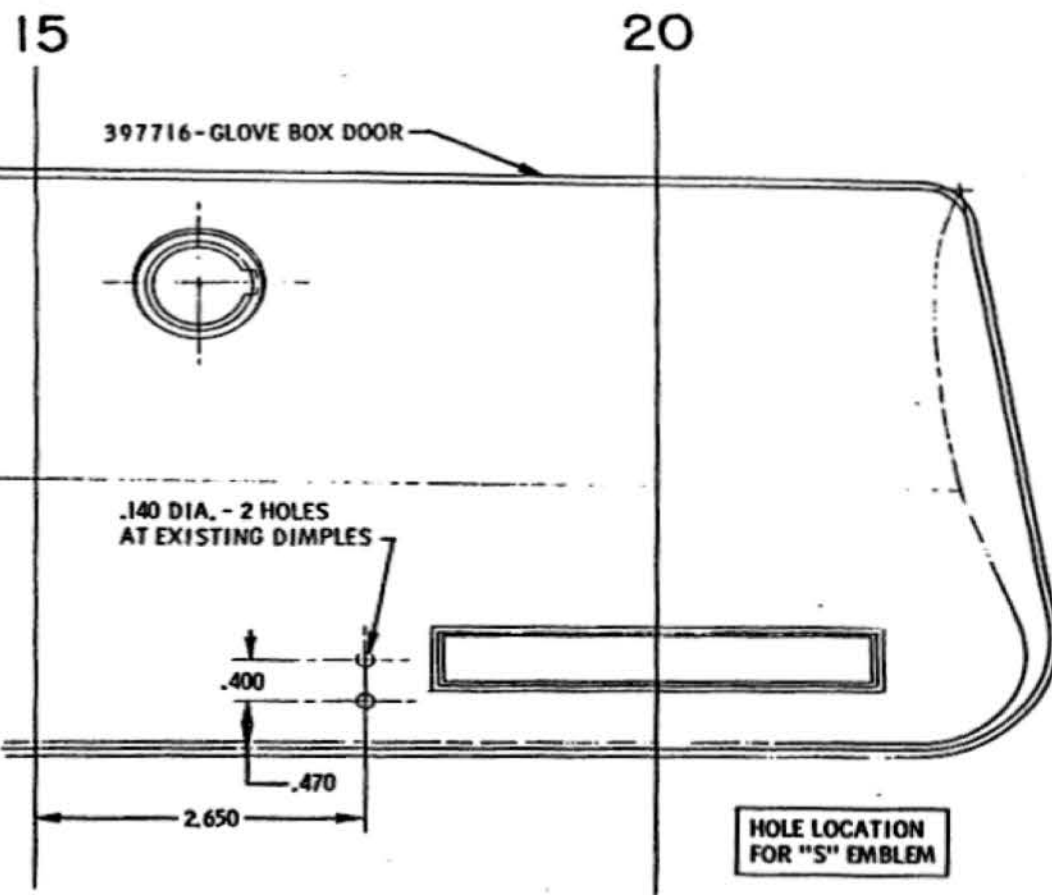
										TITLE		LAYOUT - DRILLING (DASH)	
										DATE		FIRST USED	
										MARCH 16, 1967		1968	
										DR. BY		OLDSMOBILE PRODUCT	
										K. LOVELL		INFORMATION MANUAL	
										CHECKED		MANUAL SEC. PAGE	
										P. J. HENNING		O 140	
										APPR.		SERIES	
												A	
										PART NO.		401037	
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	

52968 J HOLE ADDED RMP 7-31-67 E WAS SHEET 1 OF 6
 52968 H NOTE REVISED RMP 51767 C 1.100 WAS 1.010
 1-468 G NOTE REVISED BS J 51767 B .209 DIA - 3 HOLES ADDED
 12-8-67 F DIMPLE ADDED K. J. 51767 A WAS SHEET 1 OF 5



SHEET 2

										TITLE		LAYOUT - DRILLING (DASH)							
										DATE <i>MARCH 16, 1967</i>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
										DR. BY <i>K. LOVELL</i>		1968		INFORMATION MANUAL		O		141	
										CHECKED <i>K. Lovell</i>		REF.		SERIES		PART NO.			
										APPR.				A		401037			
										51767 A NOTE REVISED									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.				

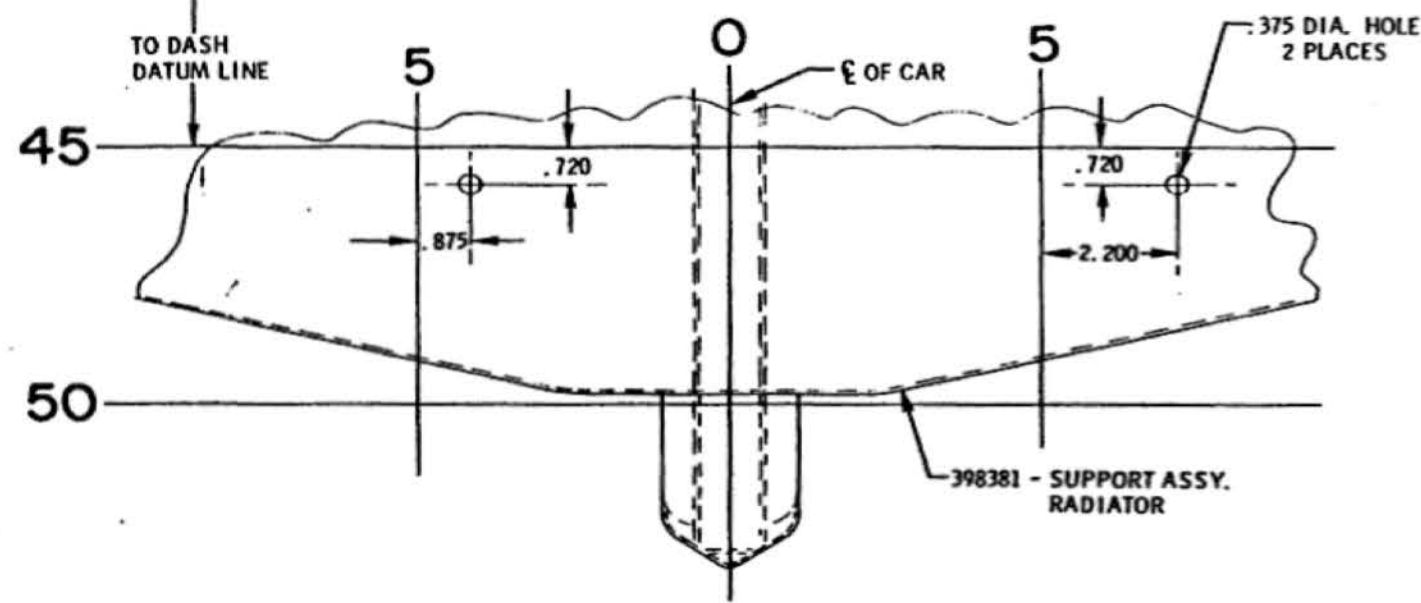


(D) (C)

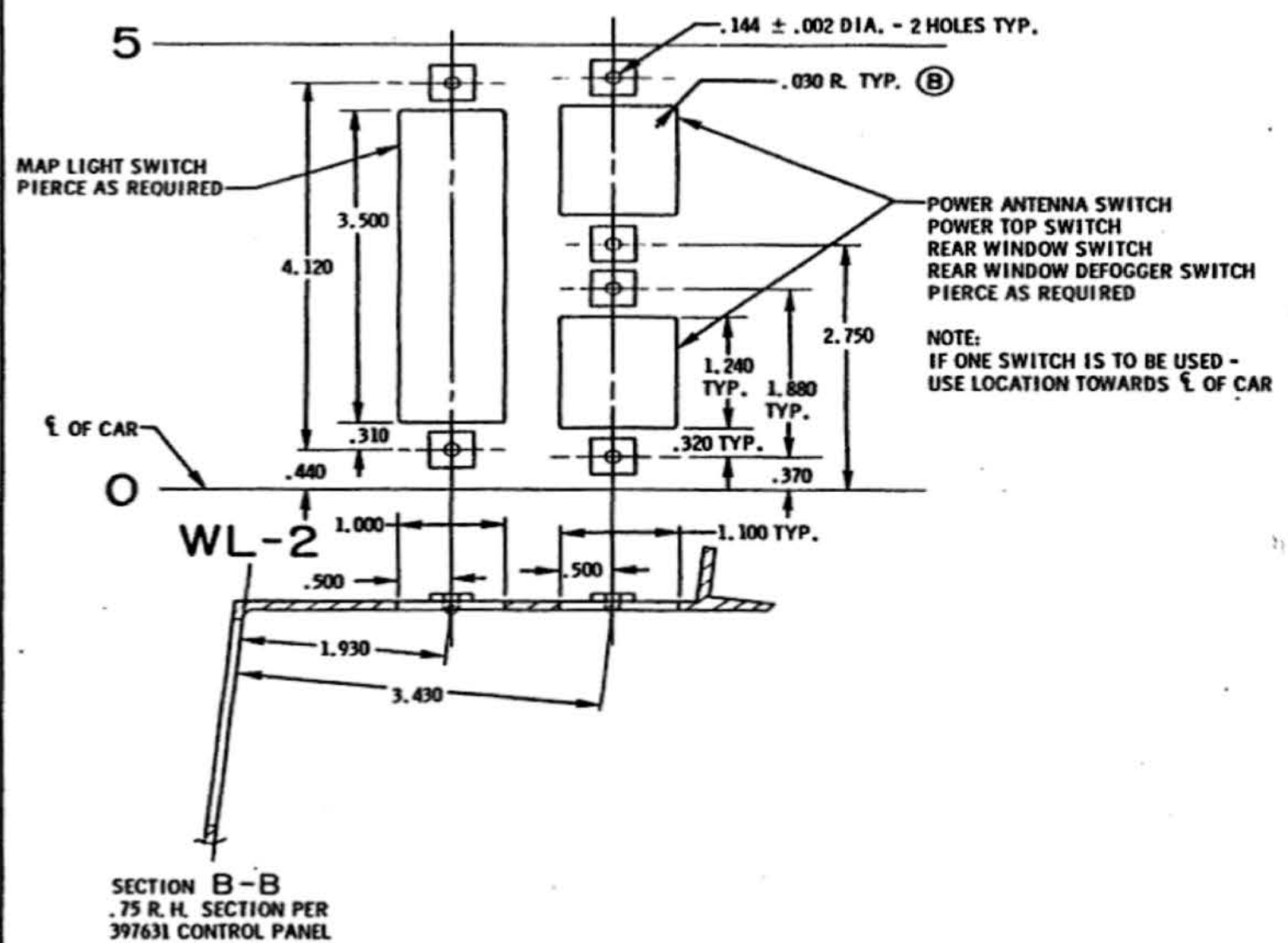
(A)

SHEET 4

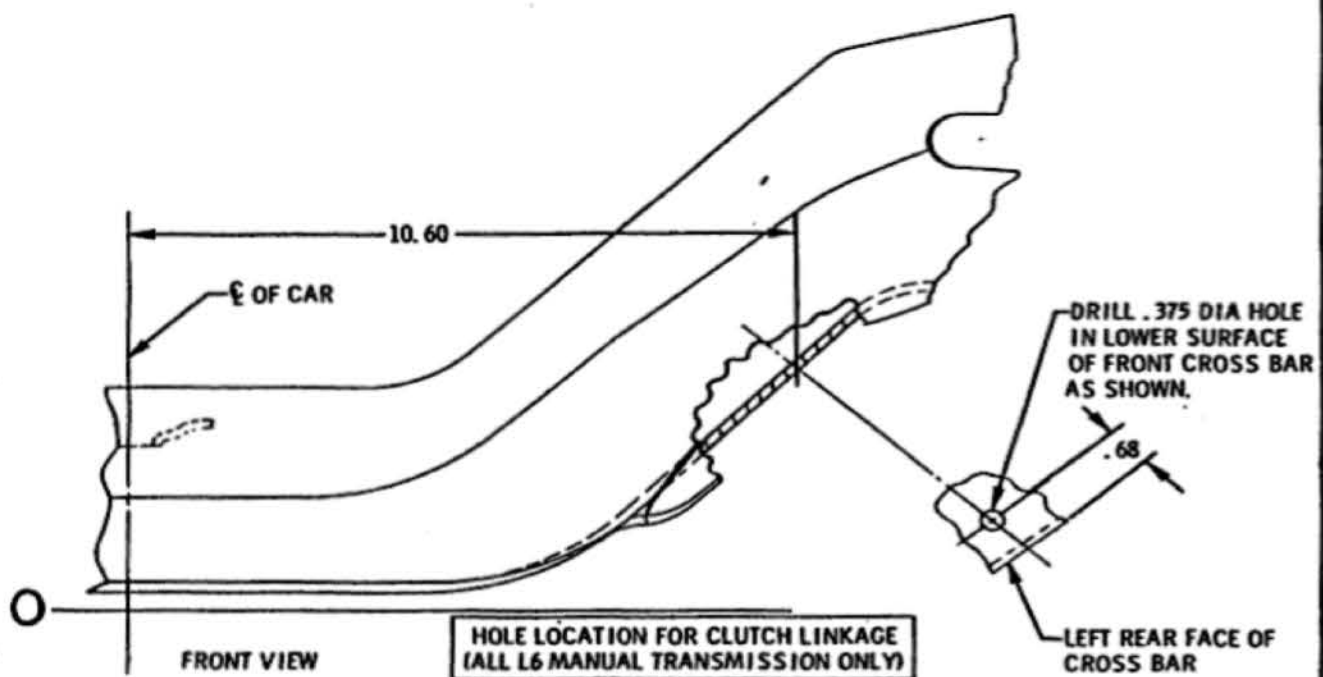
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
																LAYOUT - DRILLING (MISCELLANEOUS)	1968	O	143	A	401037	
																VIEW ADDED						
																VIEW REMOVED						
																TITLE REVISED						
																VIEW REMOVED						



DRILLING FOR AUXILIARY OIL COOLER-AUTOMATIC TRANSMISSION

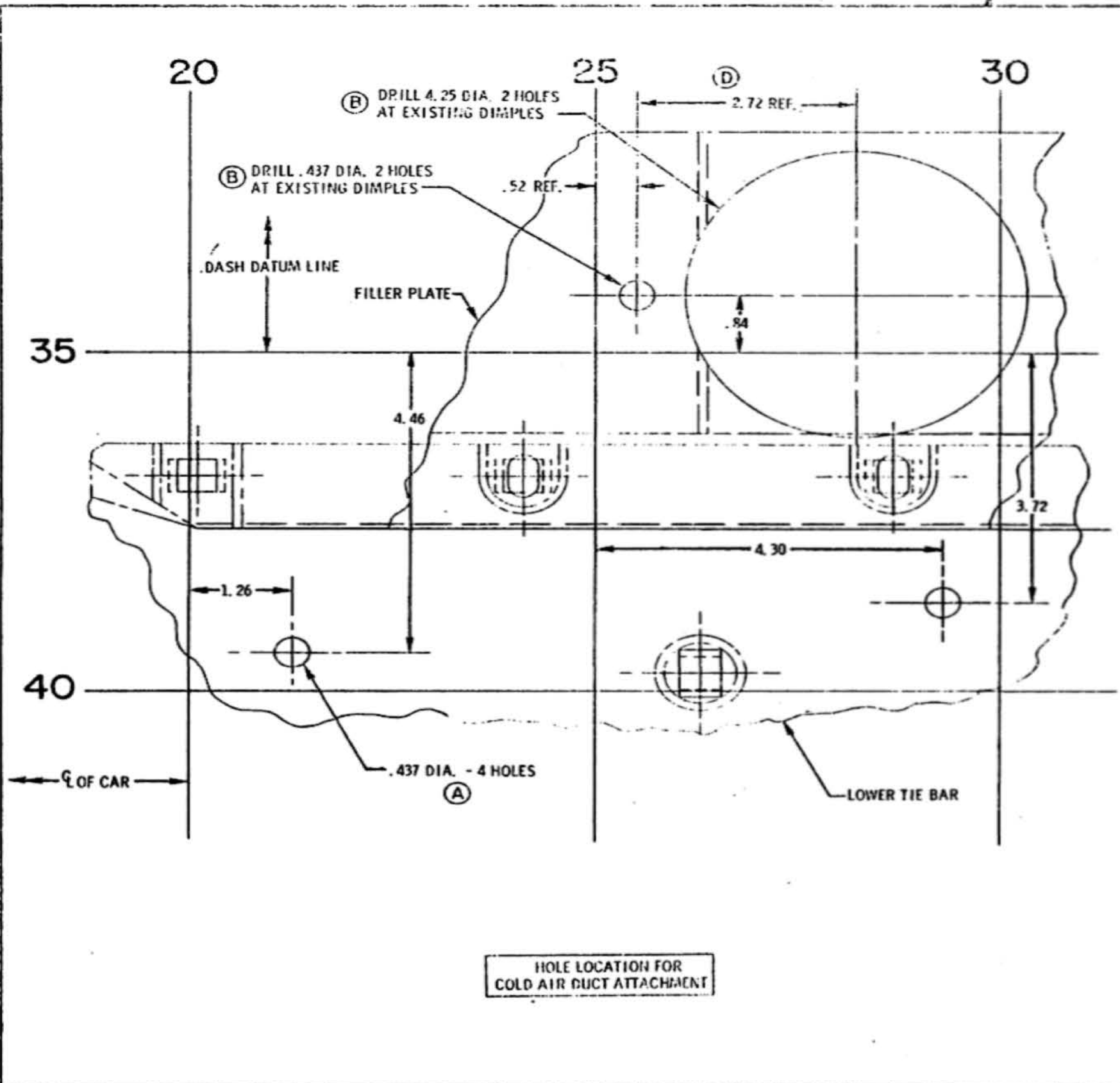


ACCESSORY SWITCH
PIERCING

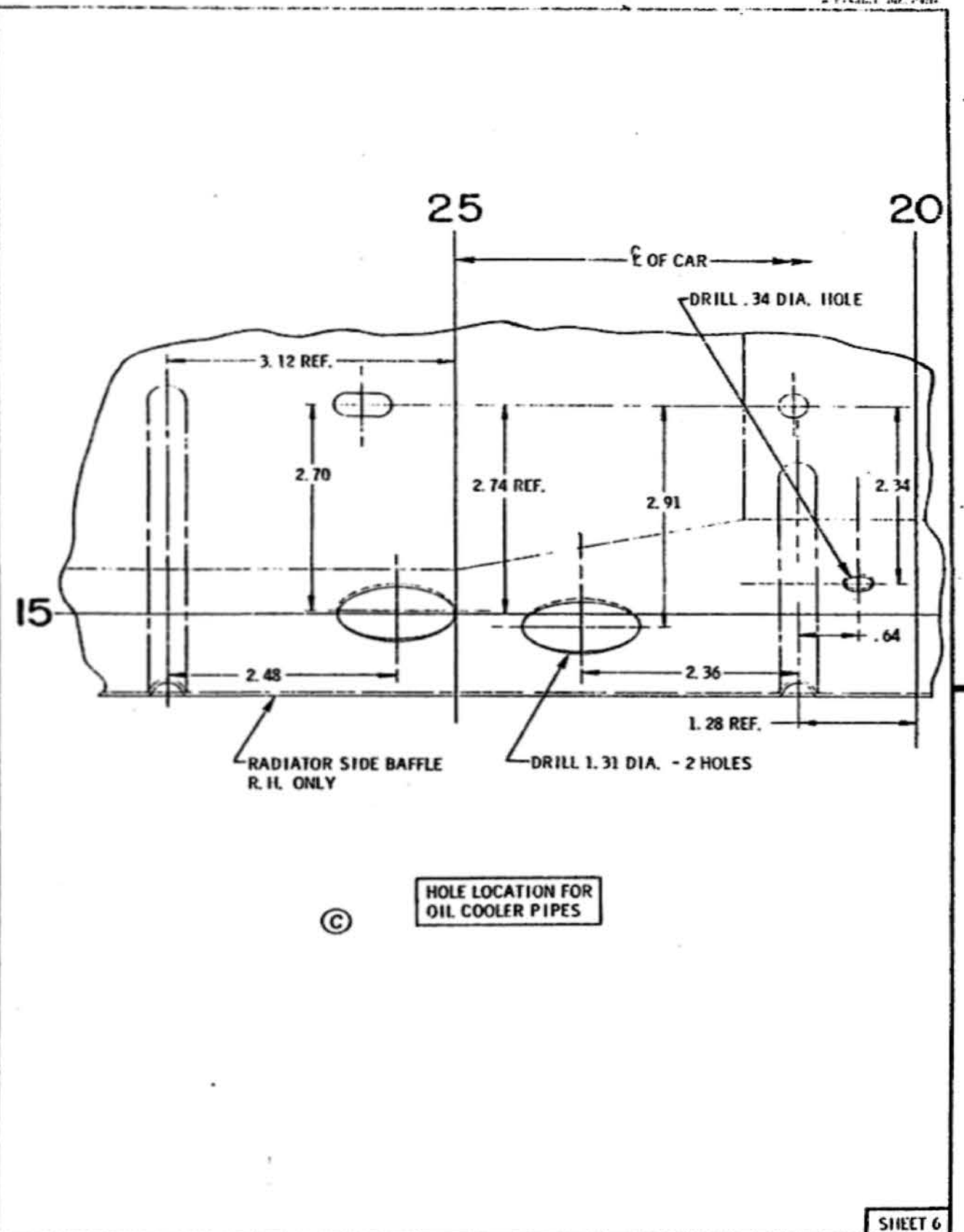


SHEET 5

TITLE										LAYOUT - DRILLING (MISCELLANEOUS)				
DATE MARCH 16, 1967										FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
DR. BY K. LOVELL										REF.	SERIES	A	PART NO.	401037
CHECKED <i>(Signature)</i>										APPR.	APPR.	APPR.	APPR.	APPR.
7367 B DIM. ADDED										DR. CK.	DATE	SYM	REVISION	REVISION
5467 A VIEW ADDED										DR. CK.	DATE	SYM	REVISION	REVISION
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION

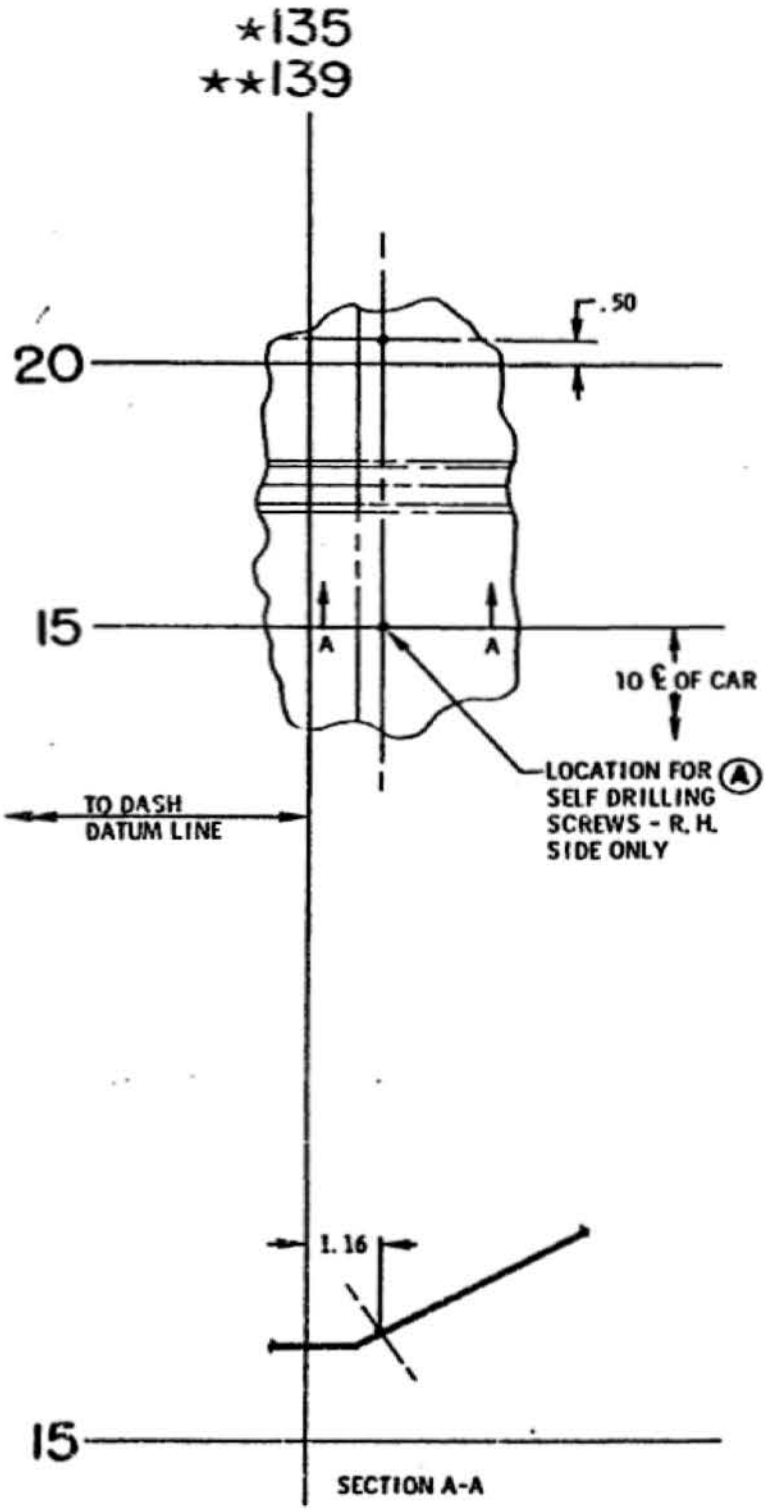


HOLE LOCATION FOR COLD AIR DUCT ATTACHMENT

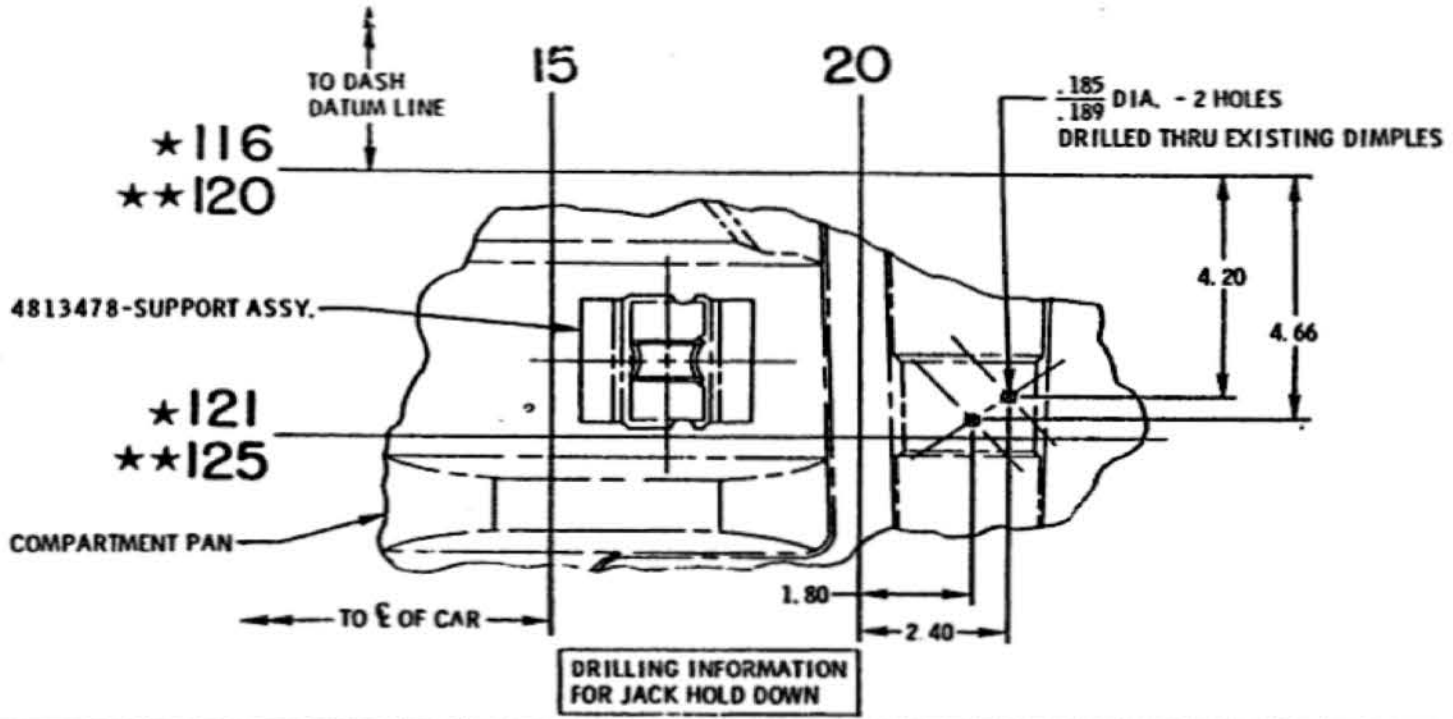


HOLE LOCATION FOR OIL COOLER PIPES

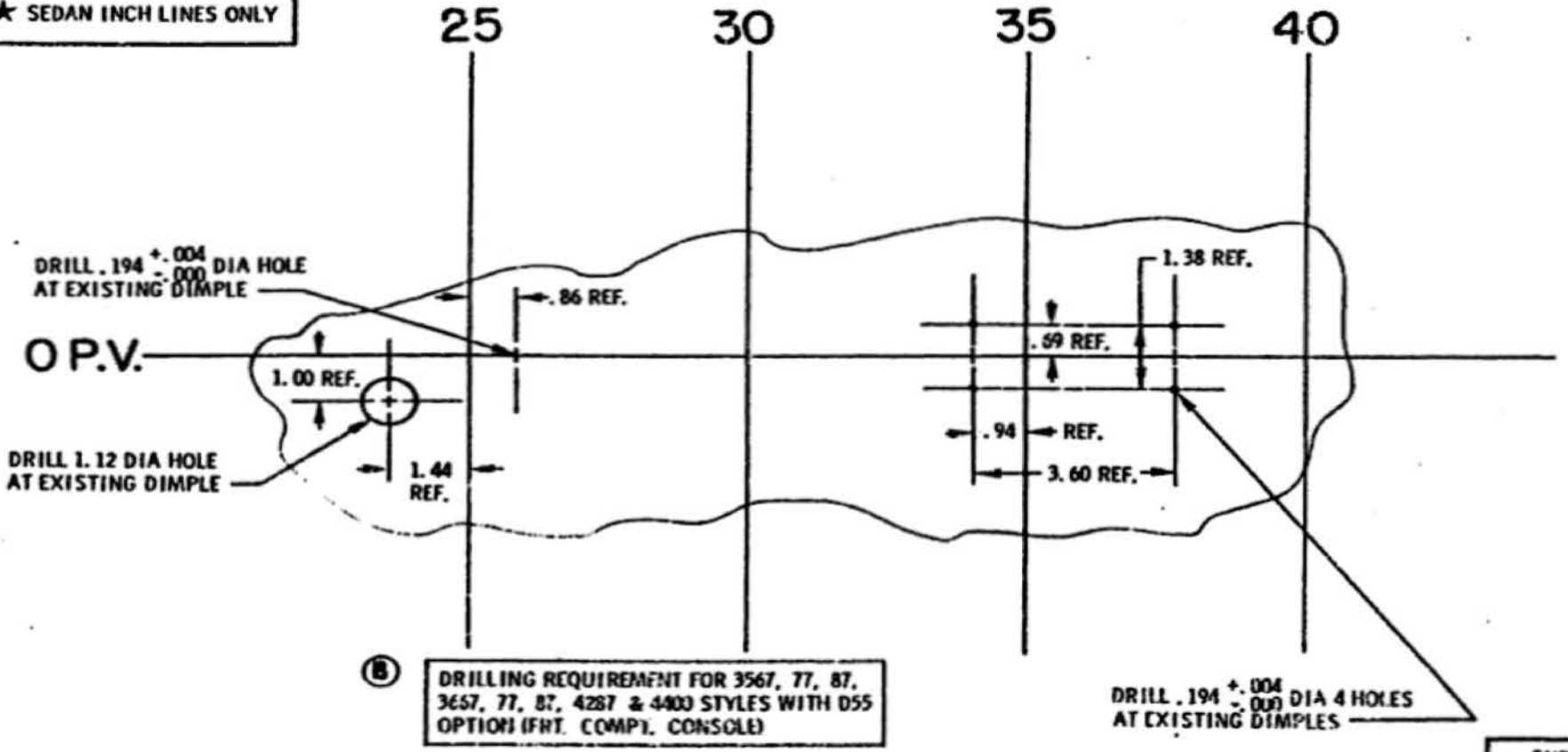
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
															LAYOUT - DRILLING (MISCELLANEOUS)	1968		0	145
															DATE MAY 5, 1967				
															DR BY DON MALKIN				
															CHECKED				
															ALPH				
															REF.				
															SERIES				
															A				
															PART NO.				
															401037				



JACK HANDLE HOLD DOWN
POS OPTION ONLY



★ COUPE INCH LINES ONLY
★★ SEDAN INCH LINES ONLY



REVISION										TITLE									
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	O	146	
										42365	B	VIEW REVISED	CG/JF						
										22365	A	NOTE REVISED	R/JF						

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

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.																																																																																																																																				
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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 WHEELS TURNING.
- Ⓐ 4. IF CAR HAS EXCESSIVE CREEP, CHECK IDLE RPM.
- Ⓐ 5. CHECK FOR GEAR NOISE LEVEL DURING FUNCTIONAL CHECKS IN NEUTRAL, DRIVE AND REVERSE.
6. DO NOT ACCELERATE OR DECELERATE RAPIDLY WHILE PERFORMING CHECKS.

CHECK AND PROCEDURE

- Ⓑ 1. MAKE LIGHT THROTTLE START AND OBSERVE UPSHIFT AT 20-30 MPH.
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 45-40 MPH, 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 BARKING.

DATE	SYN	REVISION	DR	CK	DATE	SYN	REVISION	DR	CK	DATE	SYN	REVISION	DR	CK	APPR.	TITLE	CHART - ROLL TEST PROCEDURE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	SERIES	PART NO.
																DATE FEBRUARY 16, 1967		1968		0	150	A	400541
																DR. OF RODNEY DAVIS							
																DR. DON MALKIN							

Symbol	Column	Punch	Description
AA3	48	4	Chrome Coated Tinted Roof
AS1	50	2	Sld. Frt. Shoulder Belts (Conv. Only)
AS4	50	4	Dlx. Rear Shoulder Belts
AS5	50	4	Sld. Rear Shoulder Belts
A01	48	1	Tinted Glass
A02	48	2	Tinted Windshield
A31	52	1	Power 4-Window Lifts
A32	52	2	Power Ventipanes
A33	64	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	Stratio Bench Reclining Seat
A70	54	2	Stratio Bucket Reclining Seat
A74	71	1	H.D. Seat Springs - Frt. & Rear
A75	71	1	H.D. Seat Springs - Frt. (Wgn.)
A81	54	4	Stratio Type Head Restraints
A82	54	8	Non-Stratio 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
BC1	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	Confortron Air Conditioner
D33	66	4	Remote Control Mirror
D55	52	2	Frt. Compartment Console
FE1	57	2	Rally Sport Suspension
FG2	58	4	Firm Ride Shock Absorbers
F35	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. Detention - 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	Jetaway
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	45	2	Tilt & Telescope Steering Wheel
N38	70	1	H.D. Manual Steering
N40	40	1	Power Steering
N63	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" Simulated 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	5	14" Super Stock Wheels
P06	42	6	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	Rear 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	Alphabetic GT or Rally Stripe Color
Y72	49	4	H.D. Engine Cooling
Y77	65	4	Wheel Cover & Mat

Column	Key Punch	Acc. Letter	Description
28			
29			
30			Body Style
31			
32			Trim
33			
34			Color
35			
36			Group Number
37			L74 350 cu. in. 4 bbl. 10.25 to 1 C.R. L78 400 cu. in. 4 bbl. 10.50 to 1 C.R. L77 400 cu. in. 4 bbl. 10.50 to 1 C.R. L65 350 cu. in. 2 bbl. 8.00 to 1 C.R. (4200 Only) L85 400 cu. in. 2 bbl. 9.00 to 1 C.R. (4400 & 4800) W30 400 cu. in. 4 bbl. 10.50 to 1 C.R. with Air Induction System (4-4-2)
38			L20 455 cu. in. 2 bbl. 9.00 to 1 C.R. L66 455 cu. in. 2 bbl. 10.25 to 1 C.R. L71 455 cu. in. 4 bbl. 10.25 to 1 C.R. L72 455 cu. in. 4 bbl. 10.25 to 1 C.R. (Police) W34 455 cu. in. 4 bbl. 10.25 to 1 C.R. with Air Induction System (Toronto Performance Package) Forced Air Induction System (F-85)
39			M11 3-Speed Column Shift M14 3-Speed Fully Synchronized M20 4-Speed Synchronized M21 4-Speed Close Ratio Synchronized M31 Jersey M40 Hydra-Matic M41 M.D. Hydra-Matic
40			N40 Power Steering J50 Power Brakes J32 Disc Brakes N40 and J50 N40 and J32
41			P28 14" Whitewall Tires N83 15" Whitewall Tires for 4-4-2 P04 15" Radial Ply Whitewall Tires (785) P72 15" Radial Ply Whitewall Tires (81-98) G03 15" Radial Ply Whitewall Tires (E) P14 15" Heavy Service Whitewall Tires P81 15" Blackwall Tires & Wheels (Police Only) T33 14" Heavy Service Whitewall Tires & Wheels (9880) P16 Std. Size Whitewall Tires (Export) W22 White Line Tires (Export) N81 14" Red Line Tires
42			P01 14" Wheel Discs (785) P02 14" Di. Wheel Discs (785) P03 15" Di. Wheel Discs (Toronto) N94 15" Di. Wheel Discs (88-98) N93 14" Simulated Wire Wheels P05 14" Super Stock Wheels N98 15" Super Stock Wheels (Toronto) P06 15" Trim Rings PA1 14" Special Wheel Discs
43			N30 Deluxe Steering Wheel (785) N34 Wood Grain Steering Wheel (785) N33 Tilt Steering Column (785) N37 Tilt & Telescope Steering Wheel (785) U35 Electric Clock N30 or N34 and N35 (785) N30 or N34 and U35 (785) N33 and U35 (785) N37 and U35 (785) N30 or N34, N35 and U35 (785)
44			U21 Rally Pack (785) U15 Safety Seatbelt A91 Power Trunk Lid Latch U21 and A91 (785) U15 and A91 U21 and U15 and A91 (785)
45			Y80 Accessory Package U29 Courtesy Lamps B83 Door Edge Guards Y60 and U35 Y60 and B83 U28 and B83 Y60, U29 and B93
46			U83 Deluxe Radio U99 AM-FM Radio (785) U98 AM-FM Radio (785) U98 AM-FM Stereophonic Radio (785)
47			U71 Power Antenna (Toronto) U75 Power Antenna U80 Rear Seat Speaker U37 Stereo Tape Player U71 or U75 and U80 U71 or U75 and U37
48			A01 Tinted Glass A02 Tinted Windshield A03 Chrome Coated Tinted Roof (V.C.) A01 and A03 A02 and A03
49			C80 Air Conditioner C81 Condorion Air Conditioner (785) Y72 R.D. Engine Cooling V01 M.D. Radiator (785) C80 and Y72 C81 and Y72

Column	Key Punch	Acc. Letter	Description
A39			Deluxe Frt. & Rear Lap Belts (A & B Conv.)
A51			Standard Front Shoulder Belts (A & B Conv.)
A55			Deluxe Front Shoulder Belts (4487)
W39			Deluxe Frt. & Rear Lap Belts & Frt. Shoulder Belts (A, B, & E, Exc. Conv.)
A53			Standard Rear Shoulder Belts (A, B, & E)
A54			Deluxe Rear Shoulder Belts (C)
A55			Deluxe Frt. and Rear Lap Belts and Deluxe Front Shoulder Belts (A & B Conv.)
A51 and A55			Standard Front and Rear Shoulder Belts (A & B Conv.)
A83 and A84			Deluxe Front and Rear Shoulder Belts (4487)
W39 and A54			Deluxe Frt. & Rear Lap Belts & Deluxe Frt. & Rear Shoulder Belts (A, B, & E, Exc. Conv.)
A39, A83, and A84			Deluxe Frt. & Rear Lap Belts and Deluxe Frt. & Rear Shoulder Belts (A & B Conv.)
B30			Wool Carpets (3100 & 3200)
B32			Aux. Frt. Floor Mats
B33			Aux. Rear Floor Mats
B30 and B32			
B30 and B33			
B32 and B33			
B30, B32 and B33			
A41			Power 4-Wayner Latch
D35			Front Compartment Console
A32			Power Ventiquos (98)
A33			Side Door Locks (785)
C31			Rear Window Air Deflector (Wgn.)
A12 and A32 (98)			
A11 and D35			
A31 and A33 (785)			
A31 and C31 (785)			
D35 and A33			
A12 and A33 (98)			
A11, D35 and A33 (88)			
A11, A32 and A33 (98)			
A41			4-Way Power Seat - Bench (785)
A42			6-Way Power Seat - Bench (785)
A46			1-Way Power Seat - Bucket
A68			6-2x10-Bench Reclining Seat
A70			6-2x10-Bucket Reclining Seat
A81			6-2x10-2x10-Head Restraints
A82			Non-2x10-2x10-Head Restraints
A83 and A81			
A70 and A81			
N20			Cruise Control
K26			High Voltage Ignition
N10			Dual Exhaust System
K35 and K66			
K20 and N10			
K58 and N10			
K20, K58 and N10			
T87			Concealing Lamps (785)
M35			Auxiliary Oil Cooler
T87 and M35 (785)			
C46			Superlift Rear Shock Absorbers
C50			Anti-Spin Differential
F02			Turn, Ride Shock Absorbers
C54 and C80			
C80 and F02			
C88			Performance Axle
C89			Performance Axle
C90			Performance Axle
C81			Performance Axle
C32			Extraneous Axle
C35			Extraneous Axle
C98			Extraneous Axle
C88			Performance Axle
C89			Performance Axle
C90			Performance Axle
C81			Performance Axle
C32			Extraneous Axle
C35			Extraneous Axle
C98			Extraneous Axle
Y70			Alphanumeric G. T. or Rally Strip Color
W36			Rally Strip (4400)
B80			Road Drip Mouldings
D85			Window Sill Mouldings
B90			Chrome Window Frames
B80 and B85			
B80 and B90			
B45 and B90			
B20, B81 and B90			
B50			Frame, Front Seat Cushion
B52			Frame, Rear Seat Cushion
Y87			Interior Option (3100, 3200, 3400)
W37			Deluxe Interior Decor (3500, 3600, 4400)
B50 and B52			
B50 and Y87 or W37 (785)			
B52 and Y87			
B50, B52 and Y87 or W37 (785)			
A86			Divided Second Seat (Wgn.)
A33			Power Tailgate Window (Wgn.)
A86 and A33			

Column	Key Punch	Acc. Letter	Description
C50			Rear Window Defogger
V55			Luggage Carrier (Wgn.)
V58			Storage Comp. Lock (Wgn.)
B38			Luggage Comp. Mat (6669 & 6487)
Y77			Wheel Cover & Mat
B39			Carpeted Load Floor
V55 and V58 (Wgn.)			
C50 and B39 or Y77			
V55 and B39 (Wgn.)			
V58 and B39 (Wgn.)			
V55, V58 and B39 (Wgn.)			
C34			Recessed Wy-danall Wiper (785)
B88			Wheel Opening Moulding (785)
Y88			Body and Wheel Opening Mouldg. (785)
Y68			Exterior Mouldg. (88)
D33			Remote Control Mirror
C34 and B94 or Y68 (785)			
C34 and D33 (785)			
B92 or Y68 and D33			
C34 and B94 or Y68 and D33 (785)			
			Open
			Open
			Open
B01			Police Apprehender (City)
B07			Police Apprehender (Highway)
			Police Car Without B01 or B07
N38			R.D. Manual Steering (785)
J55			R.D. Power Brakes (785)
T80			R.D. Battery
N38 and J55			
N38 and T80			
J55 and T80			
N38 and J55 and T80			
A74			R.D. Seat Springs - Frt. & Rear
A75			R.D. Seat Springs - Frt. (Wgn.)
B01			R.D. Frt. and Rear Floor Covering
A74 or A75 and B01			
K81			65 Amp. Delcotron
U90			Flasher Wiring Harness & Roof Reinforcement
K81 and U90			
Y75			Restored Wheels & Special Police Tires (785)
			Canadian Retail Service
Y86			Top-Tone Special Paint - Charge
Y80			Special Forensic Paint - Charge
STR			Special Trim
Y88 and Y80			
Y88 and STR			
Y80 and STR			
Y88 and Y80 and STR			
A			G.M. Employee
B			Older-Fisher Employee
C			Allied Division
D			Dealer Demo
E			Driver Education
F			Fleet Order
P			Police Car Allowance
S			Sold Order
T			Terminated Dealer

LANSING PRODUCTION ONLY

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

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FRONT SHOCK ABSORBERS						
SERIES	F40 EXPORT	B07	B01	FE1	FG2	STD.
33169 33177	RZ	UV	RZ	--	UY	RW
33269 33277	RZ	UV	RZ	--	UY	VV
33535	RZ	--	RZ	--	UY	RW
33539 33569	RZ	UV	RZ	--	UY	RW
33567 33577 33587	RZ	UV	RZ	RZ	UY	RW
33635	RZ	--	RZ	--	UY	VV
33639 33669	RZ	UV	RZ	--	UY	VV
33667 33677 33687	RZ	UV	RZ	RZ	UY	VV
34239 34269 34287	RZ	UV	RZ	--	UY	VV
34467 34477 34487	--	--	--	--	--	RZ
34855 34865	RZ	--	RZ	--	UY	RY

REAR SHOCK ABSORBERS										
SERIES	F40 EXPORT	B07	B01	G66		G66 & FE1		FE1	FG2	STD.
				R. H.	L. H.	R. H.	L. H.			
33169 33177	FA	FA	FA	SF	SG	--	--	--	VT	VW
33269 33277	FA	FA	FA	SF	SG	--	--	--	VT	VW
33535	FA	--	FA	SF	SG	--	--	--	VT	SB
33539 33569	FA	FA	FA	SF	SG	--	--	--	VT	VW
33567 33577 33587	FA	FA	FA	SF	SG	SF	SG	FA	VT	VW
33635	FA	--	FA	SF	SG	--	--	--	VT	SB
33639 33669	FA	FA	FA	SF	SG	--	--	--	VT	VW
33667 33677 33687	FA	FA	FA	SF	SG	SF	SG	FA	VT	VW
34239 34269 34287	FA	FA	FA	SF	SG	--	--	--	VT	VW
34467 34477 34487	--	--	--	SF	SG	--	--	--	--	WE
34855 34865	MT	--	MT	KL	KM	--	--	--	UW	SC

CODE	PART NUMBER	VALVING	
		REBOUND	COMPRESSION
FA	3186767	C2.25 (9) N	K2-.073
KL	3186851	C3 (46) J6	C3
KM	3186852	C3 (46) J6	C3
WE	3192931	C2.75 (8) L	K2-.073
MT	3192448	C2 (4) R	E1
RW	3192800	C6 (4) E	E2
RY	3192802	C4.5 (12) K	G1.25
RZ	3192803	C2.50 (9) R	H1.50
SB	3192805	C2.75 (2) G	D3.25
SC	3192806	C2.25 (8) K	C2-.082
SF	3186563	C4 (56) E8	13.75
SG	3186564	C4 (56) E8	13.75
UV	3192854	C3 (9) R	J1
UW	3197649	C2 (11) G	C1.5-73
UY	3197669	C2 (8) K	C1-60
VT	3197672	C1.5 (17) H	B2-60
VV	3192871	C4.75(20)	G ² /D2
VW	3192872	C3.75(12)	GK ² 2.25-.082

NOTE:

G66 SHOCK ABSORBERS FOR 33100 THRU 34200 EXCEPT 34855, 65 BODY STYLES (SF & SG) ARE PART OF SUPERLIFT SHOCK PACKAGE 3186591 AS PURCHASED. IDENTIFICATION CODES WILL NOT BE ON THE SHOCK ABSORBERS.

G66 SHOCK ABSORBERS FOR 34855, 65 (KL & KM) ARE PART OF SUPERLIFT SHOCK PACKAGE 3186591 AS PURCHASED. IDENTIFICATION CODES WILL NOT BE ON THE SHOCK ABSORBERS.

MEANING OF CODES FOR VALVING:

- FIGURE 1 ORIFICE PLATE - .108/9-.073
- FIGURE 2 ORIFICE PLATE - .125/9-.073
- FIGURE 4 ORIFICE PLATE - .144/9-.073
- FIGURE 8 ORIFICE PLATE - .093/4-.073
- FIGURE 9 ORIFICE PLATE - .108/6-.073
- FIGURE 10 ORIFICE PLATE - .125/4-.073
- FIGURE 11 ORIFICE PLATE - .161/6-.073
- FIGURE 12 ORIFICE PLATE - .125/6-.073
- FIGURE 17 ORIFICE PLATE - .144/4-.073
- FIGURE 20 ORIFICE PLATE - .144/12-.073

FIGURE (46)

- 6 .089 DIAMETER HOLES REBOUND
- 6 .089 DIAMETER HOLES COMPRESSION

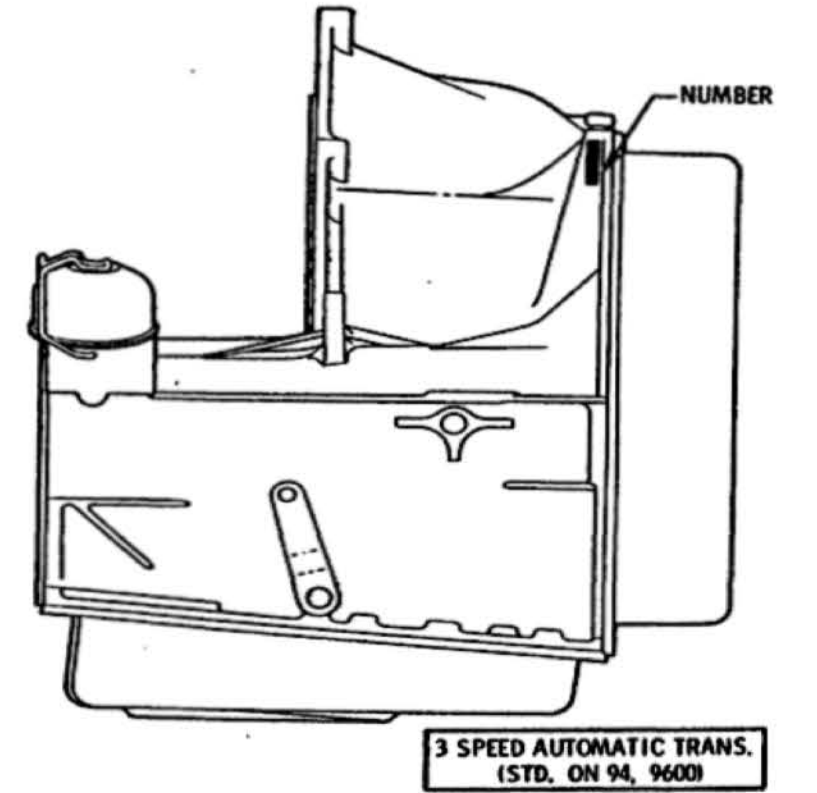
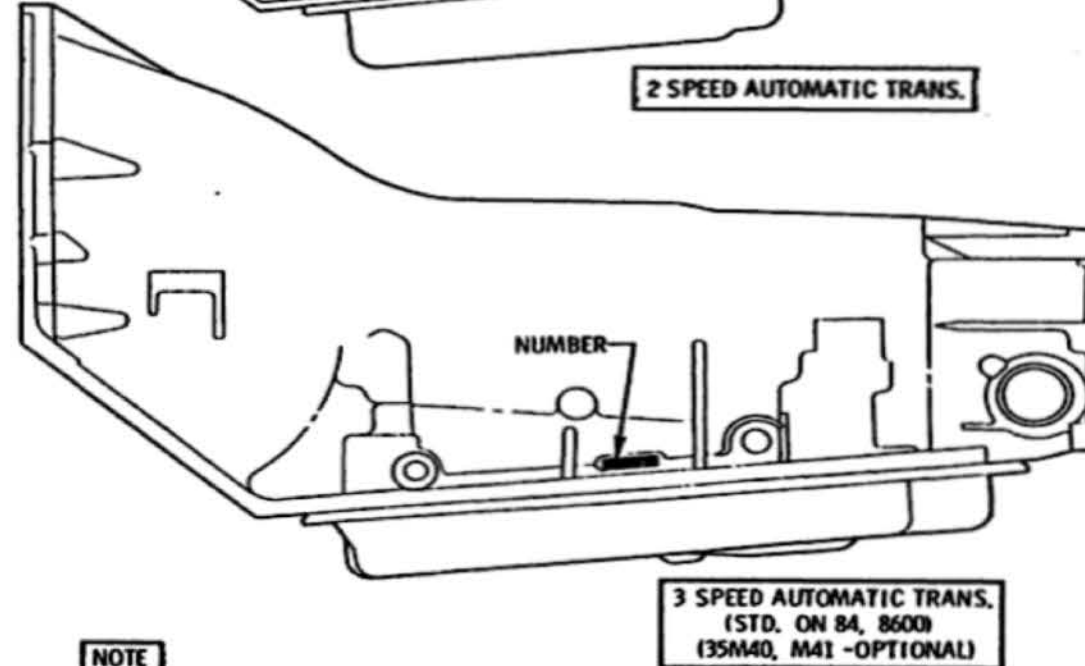
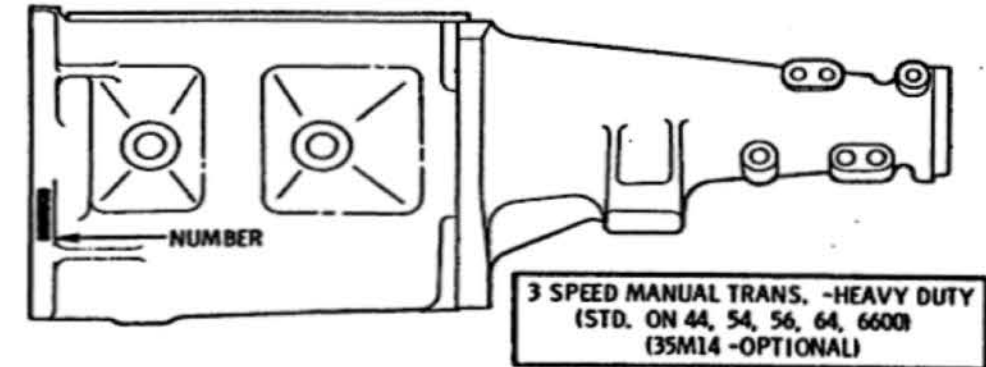
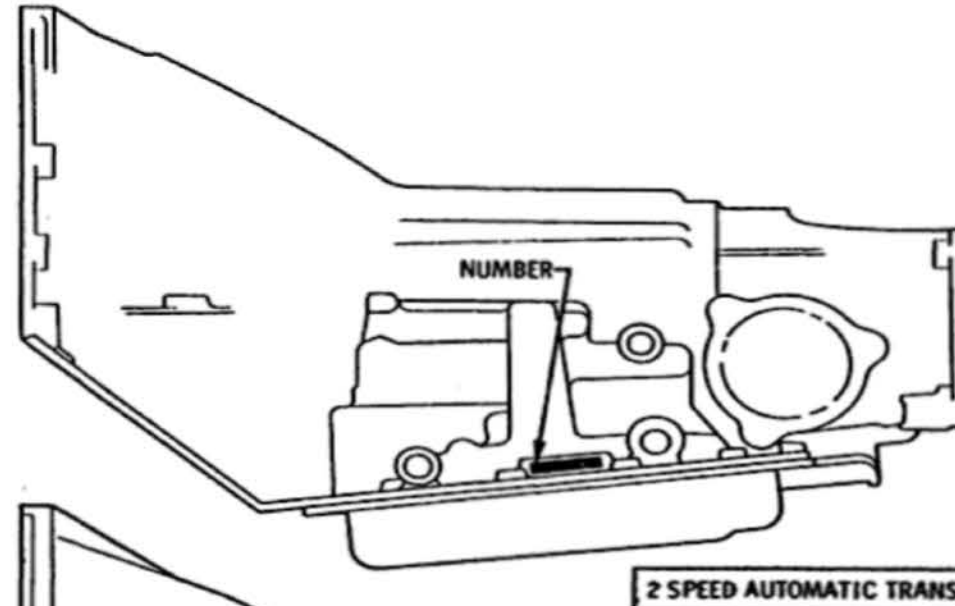
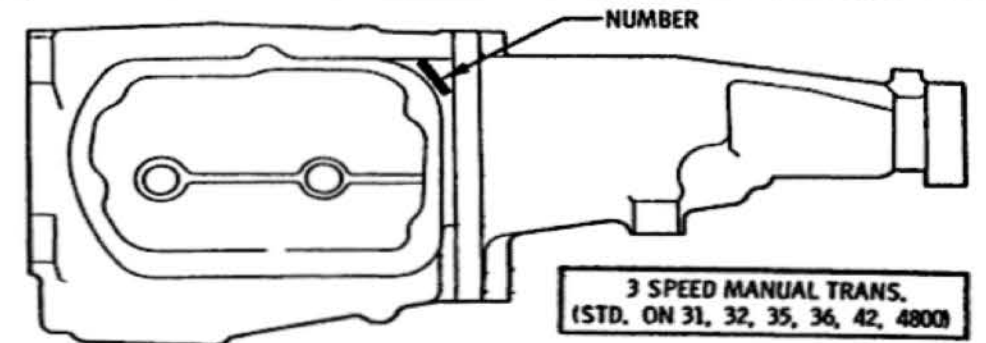
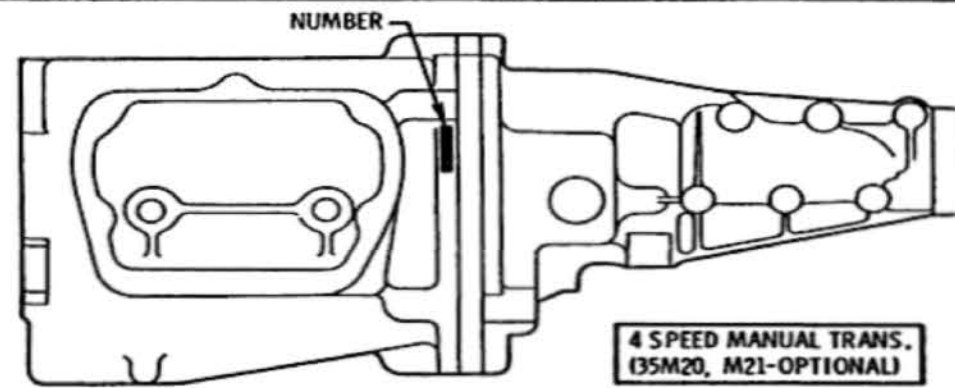
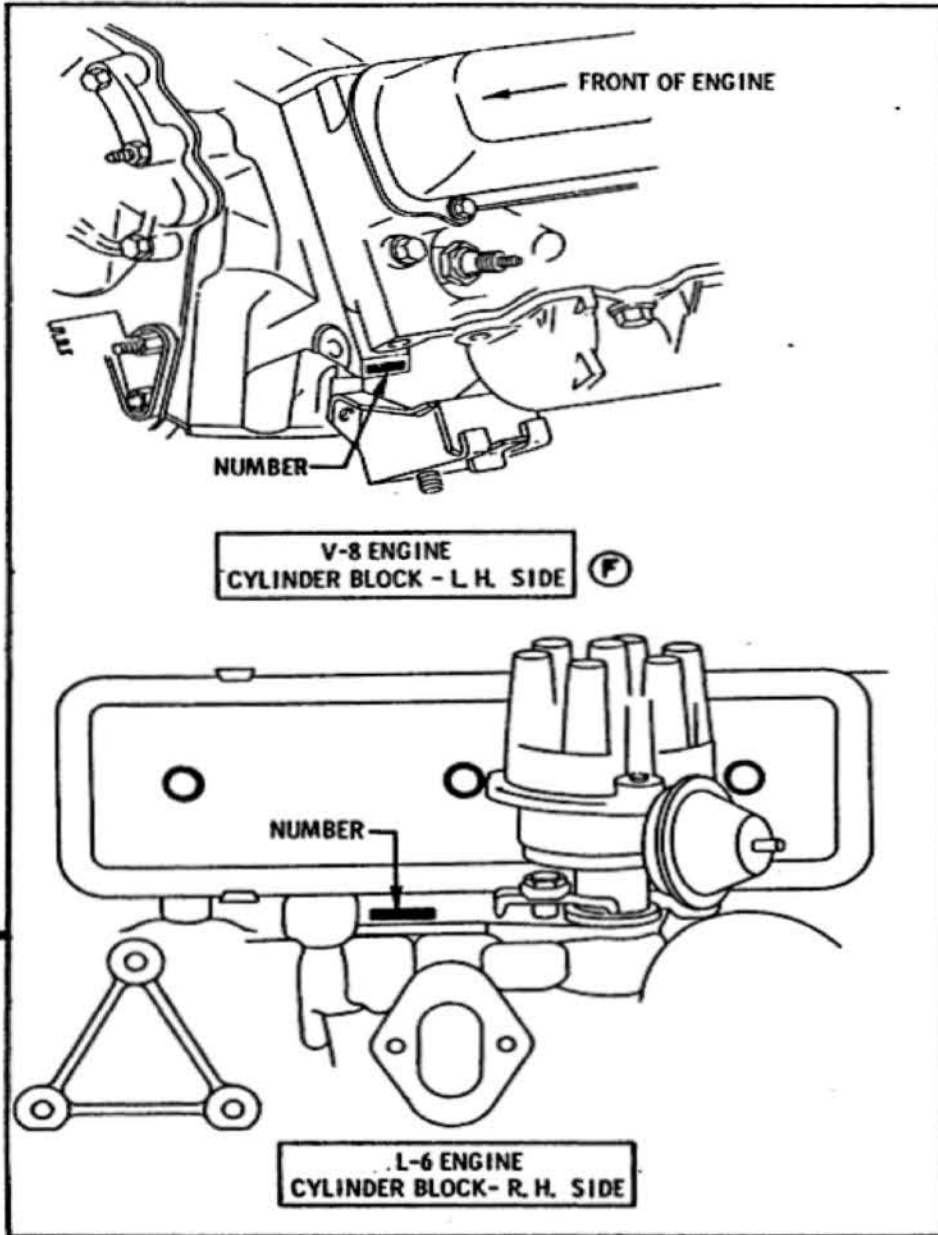
FIGURE (56)

- 8 .089 DIAMETER HOLES REBOUND
- 6 .089 DIAMETER HOLES COMPRESSION

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
		4368 A ₂			10-18-67	E ₂	COLUMN ADDED	KL																	
		4368 J			10-18-67	D ₂	CODE ADDED	KL																	
		12268 H ₂			10-18-67	C	COLUMN REVISED	KL																	
		10867 G ₂			10-18-67	B	LINE REVISED	KL																	
		10867 F ₂			10-18-67	A	WAS CODE YG	KL																	

CHART - SHOCK ABSORBER USAGE

FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	0	PAGE	160
REF.		SERIES	A	PART NO.	401795	



EACH VEHICLE ENGINE AND TRANSMISSION MUST BE STAMPED WITH A DERIVATIVE OF THE VEHICLE IDENTIFICATION NUMBER. THIS NUMBER OMMITS 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.	TITLE	PROTECTIVE NUMBER STAMPING - ENGINE AND TRANSMISSION	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
		8-3-67	J				TITLE REVISED	FR	PTB							6 DIFFERENTIAL REMOVED						
		8-3-67	H				STAMP NOTE ADDED	FR	PTB	4-17-67	D	REVISED & REDRAWN FRAME				DATE FEBRUARY 7, 1967	1968		0	170		
		6-12-67	G				NOTE ADDED	EJR	PTB	4-17-67	C	VIEW REVISED & REDRAWN				DR. BY W.E. MASON						
		6-7-67	F				VIEW REVISED	PA	PTB	2-23-67	B	TITLE REVISED				CHECKED <i>M/S Barnhart</i>						
		6-7-67	E				NOTE REVISED	PA	PTB	2-23-67	A	VIEW REMOVED				APPR. <i>Scott D. Dredel</i>						
																SERIES	ABCE					
																PART NO.	398162-3-4					

EXTERIOR PAINT CHART

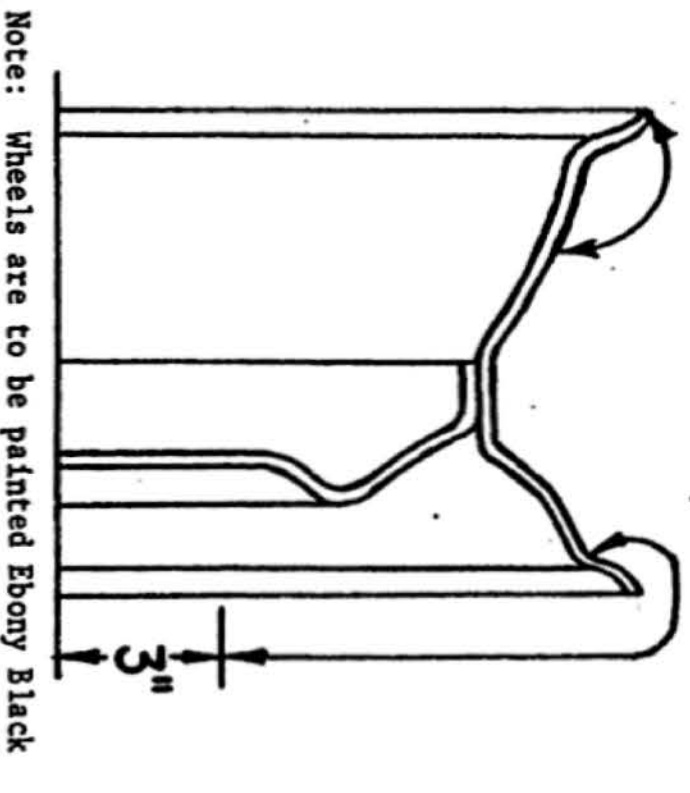
DESCRIPTION		BODY & SHEET METAL - ACRYLIC		WHEEL ENAMEL		
COLOR CODE	"M" COLOR NAME	DU PONT CODE	RINSHED-MASON CODE	FORBES CODE	DU PONT CODE	RINSHED-MASON CODE
A	EBONY BLACK	942-96459	L61KD005 or L55KD011	710-360	780-76600	E29K001
C	PROVINCIAL WHITE	868-93774	L61MD004 or L55WD004	710-178	780-93774	E29W008
D	SAPPHIRE BLUE	867-98845	L62BD009 or L62BD020	720-3700	781-98845	E29BD006
E	NOCTURNE BLUE	867-98878	L58BD020 or L62BD013	720-3760	781-98878	E29BD005
F	TEAL FROST	867-98880	L58BD013 or L62BD001	720-3762	781-98880	E29BD008
G	WILLOW GOLD	867-98847	L62LD001 or L58LD001	720-3720	781-98847	E29LD003
K	OCEAN TURQUOISE	867-98879	L62BD010 or L58BD010	720-3761	781-98879	E29BD007
L	TEAL BLUE	867-98881	L62BD016 or L58BD016	720-3708	781-98881	E29BD009
N	BURGUNDY	867-99228	L62RD006 or L58RD006	720-3821	781-99228	E29RD011
P	SILVER GREEN	867-98876	L62GD012 or L58GD012	720-3726	781-98876	E29GD002
R	SCARLET	868-99130	L61RD004 or L55RD004	710-3804	780-99130	E29RD010
S	JADE GOLD	867-99253	L62LD002 or L58LD002	720-3826	781-98998	E29LD002
T	IVORY	868-98846	L61YD002 or L55YD002	710-3719	780-98846	E29YD004
V	JUNEAU GRAY	867-98875	L62GD001 or L58GD001	720-3730	781-98875	E29GD001
Y	SAFFRON	868-96908	L61YD013 or L55YD013	710-396	780-96908	E29Y015

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

PAINT STRIPE COLORS

COLOR CODE	COLOR	"M" CODE	DU PONT	RINSHED-MASON
A	BLACK	MSA848	898-98685	L55K006
C	WHITE	MSA2661	898-98686	L55W023
O	ORANGE	MSA3769	898-99168	L55R032
R	RED	MSA3595	898-98689	L55R031

Removed "4-4-2" from title of paint stripe color list. Revised all numbers for paint code N. Added wheel enamels. Added R-M codes 4-26-67. Revised area of wheels to be painted. Corrected codes for paints K, P and S 6-20-67. Added Code #384 for brake drums when P-05 wheels are specified. 11-29-67.



Note: Wheels are to be painted Ebony Black (R-M E29K001 or duPont 780-76600) with wheel discs.

Wheels are painted lower body color for cars equipped with hub caps.
Back side of wheel, tire mounting surfaces and within a three inch radius of the wheel centerline are not to be painted although fogging is permitted.

Brake drum outer surface is to be painted Code #384 when P-05 wheels are specified as shown on drawing #400698.

CHART: PAINT & TRIM SPECIFICATIONS	
ISSUED BY: G.T. JONES	DWG. BY: R. DUSTAN
DATE: 4-3-67	PART NO.: 400965
SHEET NO.: 1	

MISCELLANEOUS TRIM MATERIALS

CONVERTIBLE TOPS :		
CODE	COLOR	RECOMMENDED USAGE
1	WHITE	Available with all colors.
2	BLACK	Available with all colors.
4	BLUE	Available with A,C,D,E only.
8	GOLD	Available with A,C,G,S,T only.

VINYL ROOF COVERS: (Available on all models except wagons and convertibles)

CODE	COLOR	RECOMMENDED USAGE
2	BLACK	Available with all colors.
4	BLUE	Available with A,C,D,E only.
6	PARCHMENT	Available with all colors.
8	GOLD	Available with A,C,G,S,T only.

CONSOLES: (Olds IBM Code 4)

COLOR	PAINTED BODY	TRIM COMBINATION USAGE
BLACK	W30A-848	940, 947, 970, 977.
MED. BLUE	W30A-3700	943, 973.
MED. GOLD	W30A-3720	944, 974.
DK. RED	W30A-3357	945, 975.
PARCHMENT	W30A-3724	949.

AUXILIARY FLOOR MATS: (Olds IBM Code 4)

COLOR	TRIM COMBINATION USAGE
BLACK	390, 910, 917, 930, 940, 947, 950, 957, 960, 970, 977, 980, 987, 990.
DK. BLUE	393, 903, 923, 933, 943, 953, 963, 973, 993.
MED. GOLD	394, 914, 934, 944, 964, 974, 994.
DK. RED	395, 945, 965, 975, 995.
DK. TURQUOISE	396, 916, 926, 966.
DK. TEAL	399, 939, 949, 969, 989, 999.

Removed trim #957 and added #956 to floor mat chart 4-26-67.
 Removed trim #956 and added #957 to floor mat chart 5-16-67.

CHART: PAINT & TRIM SPECIFICATIONS
 ISSUED BY: G.T. JONES
 DATE: 4-3-67 DWG. BY: R. DUSTAN
 SHEET NO.: 7 PART NO.: 400965

RECOMMENDED TRIM USAGE WITH TWO-TONE PAINT

Note:
Upper/Lower two-tones shown
below may be reversed if
desired.

		EXTERIOR COLORS				INTERIOR TRIM COLORS											
		PROVINCIAL WHITE	SAPPHIRE BLUE	TEAL FROST	WILLOW GOLD	OCEAN TURQUOISE	SILVER GREEN	SCARLET	IVORY	SAFFRON	BLACK	BLUE	WILLOW GOLD (GOLD)	GARNET (DK. RED)	TURQUOISE	PARCHMENT	TEAL
AC	EBONY BLACK										X					X	
AD	EBONY BLACK										X	X					
AF	EBONY BLACK										X						X
AG	EBONY BLACK										X		X				
AK	EBONY BLACK										X			X			
AP	EBONY BLACK										X						
AR	EBONY BLACK										X			X			
AT	EBONY BLACK										X					X	
AY	EBONY BLACK										X						
CD	PROVINCIAL WHITE											X				X	
CE	PROVINCIAL WHITE											X				X	
CF	PROVINCIAL WHITE															X	X
CG	PROVINCIAL WHITE											X				X	
CK	PROVINCIAL WHITE														X	X	
CL	PROVINCIAL WHITE														X	X	X
CN	PROVINCIAL WHITE														X	X	
CP	PROVINCIAL WHITE														X	X	
CR	PROVINCIAL WHITE													X		X	
CS	PROVINCIAL WHITE													X		X	
CT	PROVINCIAL WHITE													X		X	
CV	PROVINCIAL WHITE													X		X	
CY	PROVINCIAL WHITE															X	
DE	SAPPHIRE BLUE												X				
FL	TEAL FROST																X
GS	WILLOW GOLD												X				
GT	WILLOW GOLD												X				X
PV	SILVER GREEN																
ST	JADE GOLD												X				X

Added Fisher names for Willow Gold and Garnet trim colors 4-26-67.

CHART: PAINT & TRIM SPECIFICATIONS

ISSUED BY: G.T. JONES

DATE: 4-3-67 DWG. BY: R. DUSTAN

SHEET NO.: 4 PART NO.: 400965

RECOMMENDED PAINT STRIPE USAGE

EXTERIOR COLOR	PAINT STRIPE COLORS			
	BLACK (A)	WHITE (C)	RED (R)	ORANGE (O)
A EBONY BLACK		X	X	
C PROVINCIAL WHITE	X		X	
D SAPPHIRE BLUE	X	X	X	
E NOCTURNE BLUE		X	X	X
F TEAL FROST	X	X	X	
G WILLIAM GOLD	X	X	X	X
K OCEAN TURQUOISE	X	X	X	X
L TEAL BLUE	X	X	X	X
N BURGUNDY	X	X	X	X
P SILVER GREEN	X	X	X	X
R SCARLET	X	X		X
S JADE GOLD	X	X	X	X
T IVORY	X	X	X	X
V JUREAU GRAY	X	X	X	X
Y SAFFRON	X		X	

Removed "4-4-2" from title 4-26-67.

CHART: PAINT & TRIM SPECIFICATIONS	
ISSUED BY: G.T. JONES	
DATE: 4-3-67	ENG. BY: R. DUSTAN
SHEET NO.: 5	PART NO.: 400965

TRIM COMBINATION CHART

SERIES & STYLES	TRIM COLORS & NUMBERS						
	BLACK	BLUE	WILLOW GOLD (GOLD)	GARNET (DK. RED)	TURQUOISE	PARCHMENT	TEAL
33169-33269 Town Sedan (bench)	910v	903	914v		926v		
33177-33277 Club Coupe (bench)	910v	903			916v	917v	
33569-33669 Town Sedan (bench)	930v	923	934v		926		939v
33539-33639 Holiday Sedan (bench)	930v	923	934v		926		939v
33577-33677 Sport Coupe (bucket) (bench)	940v 950v	943v 953v	944v	945v		947v 957v	949v
33587-33687 Holiday Coupe (bucket) (bench)	940v 950v	943v 953v	944v	945v		947v 957v	949v
33567-33667 Convertible (bucket) (bench)	940v 950v	943v 953v	944v	945v		947v 957v	949v
33535-33635 Station Wagon (bench)	930v	933v	934v				939v
34269 Town Sedan (bench)	390v	393	394	395v	396		399v
34239 Holiday Sedan (notch-bench)	960v	963	964	965v	966		969v
+287 Holiday Coupe (bucket) (notch-bench)	970v 980v	973v	974v	975v		977v 987v	989v
34855 2 Seat Vista Cruiser (bench)	990v	993	994v	995v			999v
34865 3 Seat Vista Cruiser (bench)	990v	993	994v	995v			999v

1. "v" after trim number denotes All-Vinyl Trim.
2. All buckets are Strato Bucket seats.
3. Models marked (bench) have Conventional Bench seat.
4. Models marked (notch-bench) have Notch-Back Bench with folding center armrest.

Turquoise trim #965 replaced Parchment trim #957 for 33567,77,87-33667,77,87 models 4-26-67.
 Parchment trim #957 replaced Turquoise trim #956 for 33567,77,87-33667,77,87 models 5-16-67.
 Turquoise trim #916 phased out of 1968 production for the 33169-33269 models only 3-13-68.

CHART: PAINT & TRIM SPECIFICATIONS
ISSUED BY: G.T. JONES
DATE: 4-3-67
DWG. BY: R. DUSTAN
SHEET NO.: 6
PART NO.: 400965

MISCELLANEOUS TRIM MATERIALS

CONVERTIBLE TOPS:

CODE	COLOR	RECOMMENDED USAGE
1	WHITE	Available with all colors.
2	BLACK	Available with all colors.
4	BLUE	Available with A,C,D,E only.
8	GOLD	Available with A,C,G,S,T only.

VINYL ROOF COVERS: (Available on all models except wagons and convertibles)

CODE	COLOR	RECOMMENDED USAGE
2	BLACK	Available with all colors.
4	BLUE	Available with A,C,D,E only.
6	PARCHMENT	Available with all colors.
8	GOLD	Available with A,C,G,S,T only.

CONSOLES: (Olds IBM Code 4)

COLOR	PAINTED BODY	TRIM COMBINATION USAGE
BLACK	W30A-848	940, 947, 970, 977.
MED. BLUE	W30A-3700	943, 973.
MED. GOLD	W30A-3720	944, 974.
DK. RED	W30A-3357	945, 975.
PARCHMENT	W30A-3724	949.

AUXILIARY FLOOR MATS: (Olds IBM Code 4)

COLOR	TRIM COMBINATION USAGE
BLACK	390, 910, 917, 930, 940, 947, 950, 957, 960, 970, 977, 980, 987, 990.
DK. BLUE	393, 903, 923, 933, 943, 953, 963, 973, 993.
MED. GOLD	394, 914, 934, 944, 964, 974, 994.
DK. RED	395, 945, 965, 975, 995.
DK. TURQUOISE	396, 916, 926, 966.
DK. TEAL	399, 939, 949, 969, 989, 999.

Removed trim #957 and added #956 to floor mat chart 4-26-67.
 Removed trim #956 and added #957 to floor mat chart 5-16-67.

CHART: PAINT & TRIM SPECIFICATIONS

ISSUED BY: G.T. JONES

DATE: 4-3-67 DWG. BY: R. DUSTAN

SHEET NO.: 7 PART NO.: 400965

Items listed above columns are required in colors shown for trim colors as outlined.

Refer to Sheet No. 6 for trim combination numbers for specific models.

	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
TRIM COLORS	Upper Inst. Panel (WOA) - IBM Code 1 Safety Pad (Molded Vinyl to match WOA) - IBM Code 1 Package Shelf (WOA) Rear Window Defogger Grille (WOA) Lower Inst. Panel (W30A) - IBM Code 2 Cover-Steering Column (W30A) - IBM Code 2 Windshield Pillar Pads* (Molded Vinyl) Stereo Case Assembly (WOA) Stereo Case Pad (Vinyl base paint to match WOA) * For 335(6)67 only. (see column 4 for other models)	Inst. Panel Control Panel (W30A) - IBM Code 8 Glove Box Door (W30A) - IBM Code 8 Radio Hole Cover (W30A) - IBM Code 8 Ash Tray Door (W30A) - IBM Code 8 Heater Hole Cover (W30A) - IBM Code 8	Steering Column (W30A) - IBM Code 3 Jacket-Steering Column (W30A) - IBM Code 3 Turn Signal Housing (W30A) - IBM Code 3 Steering Wheel Std. (W30A) - IBM Code 3 Steering Wheel Deluxe (Plastic) - IBM Code 3	Station Wagon Rear Speaker Grille (W30DE) Window Frames & Center Pillars (W30A) Windshield Pillar Pads* (Molded Vinyl) Vista-Cruiser Roof Garnish Moldings (W30DE) * All "A" except 335(6)67. (see column 1 for convertibles)
BLACK	BLACK W-848	BLACK W-848	BLACK W-848	BLACK W-848
BLUE	DK. BLUE MET. W-3702	DK. BLUE MET. W-3702	DK. BLUE W-3703	MED. BLUE MET. W-3700
WILLOW GOLD	DK. GOLD MET. W-3722	BLACK W-848	DK. GOLD W-3723	MED. GOLD MET. W-3720
GARNET	DK. RED W-3357	BLACK W-848	DK. RED W-3357	DK. RED W-3357
TURQUOISE	DK. TURQ. MET. W-3712	DK. TURQ. MET. W-3712	DK. TURQ. W-3713	MED. TURQ. MET. W-3710
PARCHMENT	BLACK W-848	BLACK W-848	BLACK W-848	PARCHMENT W-3724
TEAL	DK. TEAL MET. W-3708	DK. TEAL MET. W-3708	DK. TEAL W-3709	MED. TEAL MET. W-3706

W-3710 replaced W-848 for control panel items (Col. 2) on
Turquoise trims. IBM code 8 (was 2) for items in Col. 2
4-26-67. Two items in column 4 changed to W30DE. Added notes
to columns 1 and 4 5-16-67. Added items to Column 1.
Revised colors in Column 2 7-15-67.

CHART: PAINT & TRIM SPECIFICATIONS
ISSUED BY: G.T. JONES
DATE: 4-3-67 DWG. BY: R. DUSTAN
SHEET NO.: 8 PART NO.: 400965

MISCELLANEOUS PARTS REQUIREMENTS

OLDSMOBILE

1968 "A" BODY

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 GRINDING 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	} OR AUTOMATIC
80 - 90°	MEDIUM	
90°	LOW	

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.

										TITLE		CHART - AIR CONDITIONING PROCEDURE							
										DATE <i>FEB. 4, 1967</i>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
										DR. BY <i>K. LOVELL</i>		1968		INFORMATION MANUAL		0		200	
										CHECKED <i>DON MALVIN</i>		REF.		SERIES		PART NO.			
										APPR.				ABCE		400319			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.				

"E" VALVE CHECKS AND CORRECTIVE ADJUSTMENT

1. SUCTION THROTTLING VALVE
 - A. THE PROPER CONTROL ACTION OF THE VALVE IS TO BE CHECKED AS FOLLOWS:
 1. CONNECT PRESSURE GAUGE TO FITTING PROVIDED ON SUCTION THROTTLING VALVE.
 2. RUN ENGINE AT 2000 R. P. M., INSTRUMENT PANEL TEMP. CONTROL HELD TO FULL COLD POSITION.
 3. WHEN VALVE STARTS TO CONTROL, GAUGE POINTER WILL DIP SLIGHTLY BELOW OPERATING PRESSURE AND THEN RISE AND HOLD AT OPERATING PRESSURE. OBSERVE OPERATING PRESSURE, WHICH SHOULD BE 29-30 P. S. I. (@900' ALTITUDE) THREE (3) MINUTES AFTER VALVE HAS STARTED TO CONTROL.
 - B. THE VALVE IS NOT ADJUSTABLE EXTERNALLY.
2. PRESSURE GAUGES
 - A. IT IS IMPORTANT THAT ALL PRESSURE GAUGES USED TO CHECK VALVE OPERATION BE CHECKED AT PERIODIC INTERVALS FOR ACCURACY. (WEEKLY INTERVALS SUGGESTED). GAUGES MUST BE OF THE PROPER RANGE FOR READING ACCURACY (0-60 RECOMMENDED FOR EVAPORATOR BACK PRESSURE).

"F" COMPRESSOR OIL LEVEL CHECK (SEE ITEM "G" 1. B BELOW)
CHECK THE OIL LEVEL IN THE COMPRESSOR BY DRAINING AND MEASURING THE AMOUNT OF OIL. DO NOT ATTEMPT TO CHECK THE OIL LEVEL BY PARTIALLY UNSCREWING THE OIL FITTING AT THE BOTTOM OF THE COMPRESSOR.

"G" REPLACEMENT OF COMPONENTS AFTER THE SYSTEM HAS BEEN CHARGED AND OPERATED.

1. COMPRESSOR
 - A. DRAIN AND ACCURATELY MEASURE THE AMOUNT OF OIL IN THE DEFECTIVE COMPRESSOR. DO NOT RECHARGE THE COMPRESSOR WITH OIL IF IT WILL BE RETURNED TO VENDOR.
 - B. EXAMINE OIL FROM DEFECTIVE COMPRESSOR FOR IMPURITIES. IF OIL CONTAINS METALIC PARTICLES, ALL LINES MUST BE PURGED AND EXPANSIONS VALVE AND RECEIVER-DEHYDRATOR CHANGED. (REFERENCE FOLLOWING ITEM C-2).
 - C. DRAIN ALL OIL FROM THE NEW COMPRESSOR.
 - D. RECHARGE THE NEW COMPRESSOR WITH THE SAME AMOUNT OF OIL THAT WAS DRAINED FROM THE DEFECTIVE COMPRESSOR.
 - E. THIS PROCEDURE IS REQUIRED TO INSURE THAT THE COMPLETE SYSTEM IS NOT OVERCHARGED WITH OIL WHICH WILL HAPPEN IF A NEW COMPRESSOR WITH A FULL OIL CHARGE IS INSTALLED.
2. OTHER COMPONENTS
 - A. OPERATE THE SYSTEM AT IDLE SPEED FOR APPROXIMATELY FIVE MINUTES TO RETURN AS MUCH OIL AS POSSIBLE TO THE COMPRESSOR CRANKCASE PRIOR TO REPLACEMENT OF A COMPONENT.
 - B. ADDITIONS OF OIL INTO NEW COMPONENTS SHALL BE MADE IMMEDIATELY PRIOR TO ASSEMBLY OF THE COMPONENT INTO THE CAR. THE OIL SHALL BE ADDED IN SUCH A MANNER THAT THERE WILL BE NO LOSS OF OIL WITH THE COMPONENT IN ITS NORMAL POSITION ON THE CAR. WHEN IT IS DESIRABLE, THE OIL MAY BE ADDED DIRECTLY TO THE COMPRESSOR INSTEAD OF THE COMPONENT.
 - C. OIL REQUIRED
 1. EVAPORATOR - 3 FLUID OUNCES.
 2. RECEIVER-DEHYDRATOR - 1 FLUID OUNCE.
 3. CONDENSER RECEIVER-DEHYDRATOR - 3 FLUID OUNCES.

"H" PERFORMANCE TEST

1. TEST WITH HOOD UP, DOORS OPEN, CONTROL LEVER TO FULL LEFT AND "NORMAL" BUTTON ENGAGED - FAN ON HIGH AND TRANSMISSION IN NEUTRAL
2. USE AUXILIARY AIR VELOCITY OF 1100 FEET PER MINUTE INTO CONDENSER.
3. ATMOSPHERIC AIR TEMPERATURE AND RELATIVE HUMIDITY TO BE TAKEN AT FRONT OF CONDENSER.
4. THE AIR VOLUME FROM BOTH OUTER NOZZELS SHOULD BE APPROXIMATELY EQUAL, IF NOT, CHECK AIR HOSES FOR OBSTRUCTION AND PROPER INSTALLATION.
5. ADJUST ENGINE R. P. M. TO MAINTAIN 2000 R. P. M.

FOR TORQUE SPECIFICATIONS SEE TORQUE CHART

A _____
B/C _____
E _____

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

TITLE		CHART - AIR CONDITIONING PROCEDURE				
DATE	FEB 9, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
DR BY	K. LOVELL				0	201
CHECKED	DON WALKIN	REV.		SERIES	PART NO. 400319	
APPR.				ABCE		

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

R. CARROLL, INC. 1968

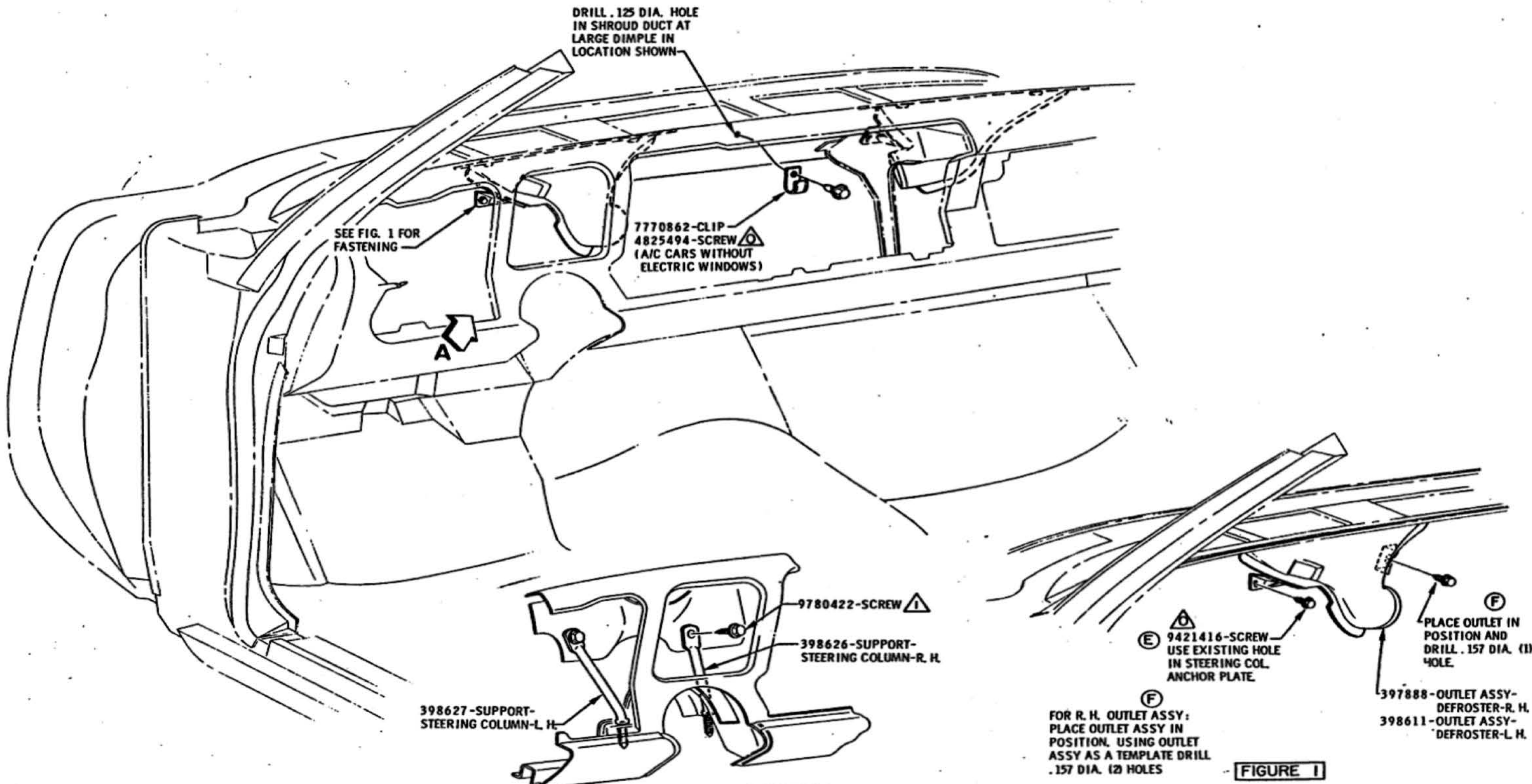
TYPICAL TEST DATA FOR 1968 "A"

IN FRONT OF CONDENSER		EVAPORATOR PRESSURE AT SUCTION THROTTLING VALVE ±1 PSI	ENGINE R.P.M.	DISCHARGE AIR TEMP. R.H. NOZZLE ±2° F.	HEAD PRESSURE (DISCHARGE) ±20 PSI
RELATIVE HUMIDITY	AIR TEMP. ° F.				
20	60	28.5	2000	34.0	145
	70	28.5		38.5	165
	80	28.5		41.0	188
	90	28.5		42.5	215
	100	28.5		47.0	265
30	110	31	2000	62.0	295
	60	28.5		37.0	146
	70	28.5		39.0	167
	80	28.5		41.5	195
	90	28.5		46.0	225
40	100	28.5	2000	55.0	256
	110	34		66.0	317
	60	28.5		38.0	148
	70	28.5		40.0	170
	80	28.5		42.0	201
50	90	28.5	2000	46.0	229
	100	30		67.0	268
	110	37		72.0	335
	60	28.5		38.5	150
	70	28.5		41.0	175
60	80	28.5	2000	44.5	208
	90	28.5		54.0	234
	100	33.5		66.5	283
	110	39.5		77.0	355
	60	28.5		39.0	158
70	70	28.5	2000	42.0	182
	80	28.5		47.0	213
	90	29.5		57.5	240
	100	36.5		70.5	296
	60	28.5		39.5	168
80	70	28.5	2000	43.0	188
	80	29.5		50.0	219
	90	31		61.0	245
	100	42		75.0	308
	60	28.5		40.0	175
90	70	28.5	2000	43.0	192
	80	29.5		53.0	225
	90	31		64.5	251
	100	42		80.0	320
	60	28.5		40.0	183
100	70	28.5	2000	44.0	199
	80	30		55.5	231
	90	32.5		67.5	257
	100	44.5		85.0	330
	60	28.5		40.0	183

(A)

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

TITLE AIR CONDITIONING TEST DATA											
DATE MARCH 31, 1967					FIRST USED 1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 0	PAGE 205	
DR. BY K. LOVELL					CHECKED J. FINES		APPR. K. S. M... ..		REF.	SERIES A	
6568 A 285 WAS 29.0					DR. CK.		PART NO. 401065				
DATE	YM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM



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

VIEW A
STEERING COLUMN SUPPORT INSTALLATION

FIGURE 1

DEFROSTER OUTLETS AND STEERING COLUMN SUPPORTS											
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	
				9-13-67	E	WAS 9421773-SCREW	VP	DT		TITLE	
				9-9-67	D	7770862-CLIP ADDED	VP	DT		DATE JAN. 17, 1967	
				7-7-67	C	TORQUE ADDED	J13	DT		DR. BY P. J. McKESSY	
				9-26-68	G	TORQUE REVISED	810	DT	6-6-67	B1	TABS ADDED
				9-13-67	F	DRILLING INFO. ADDED	810	DT	4-6-67	A	VIEW "A" ADDED
										APPR.	
										APPR. <i>[Signature]</i>	

FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 1-1	PAGE 110
REF. 1A2C	SERIES A	PART NO. 398162	

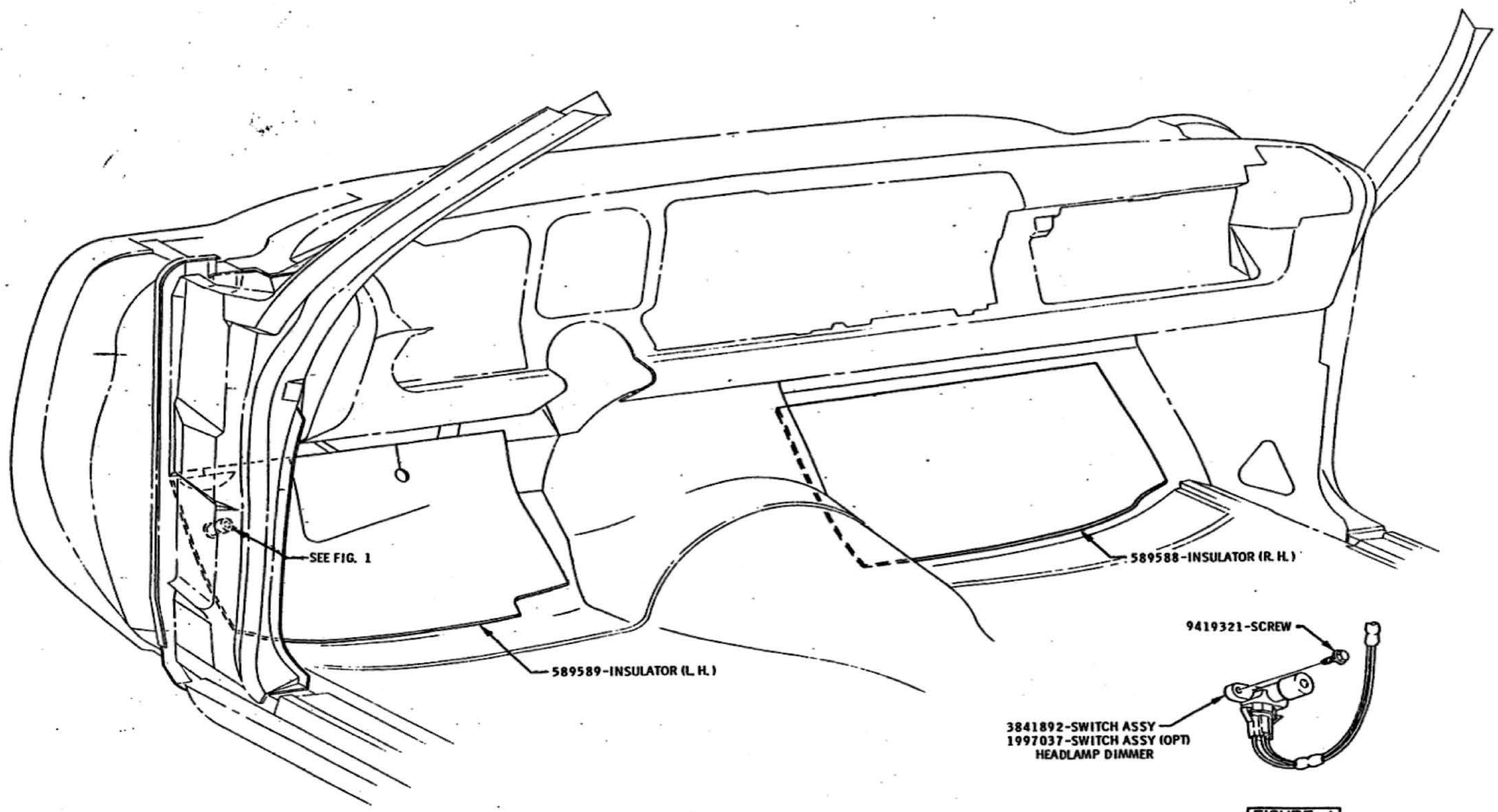


FIGURE 1

DATE										SYMBOL										REVISION										DATE										SYMBOL										REVISION										DATE										SYMBOL										REVISION																																																																																																			
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APPR.																				T. GIVIN																																																																																																																																																															
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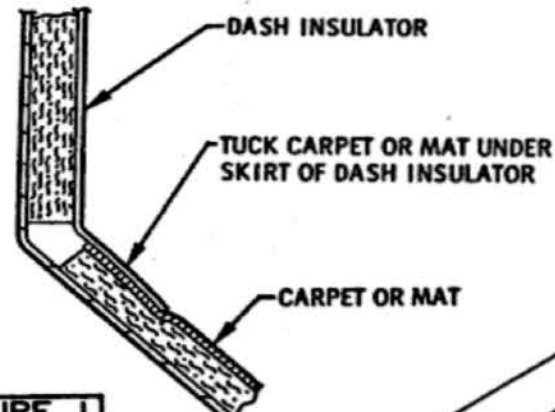


FIGURE 1

**TYPICAL SECTION THROUGH
CARPET OR MAT & DASH INSULATOR**

DASH INSULATOR
(FISHER FURNISH & INSTALL)
SEE FIGURE 1 FOR INSTALLATION
OF CARPET OR MAT AT DASH
INSULATOR

FOR INSTALLATION OF CARPET
AT SHROUD FINISHING PANEL
SEE SEC. 1-1, PAGES 116 & 215

9416208-SCREW

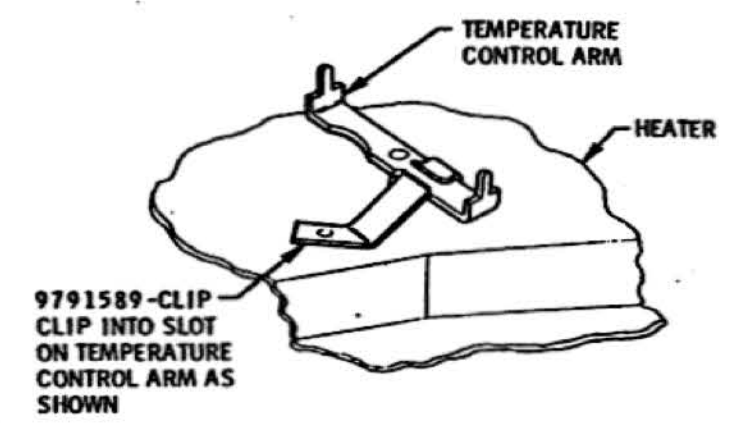
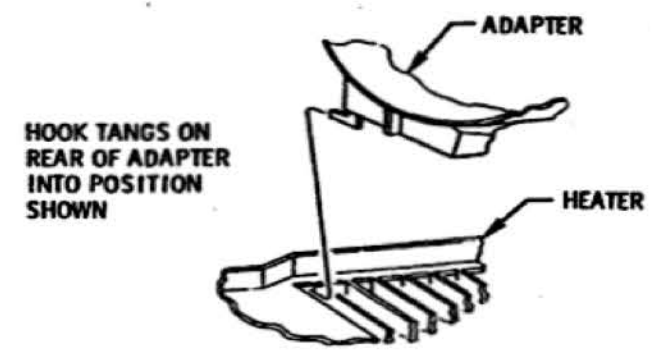
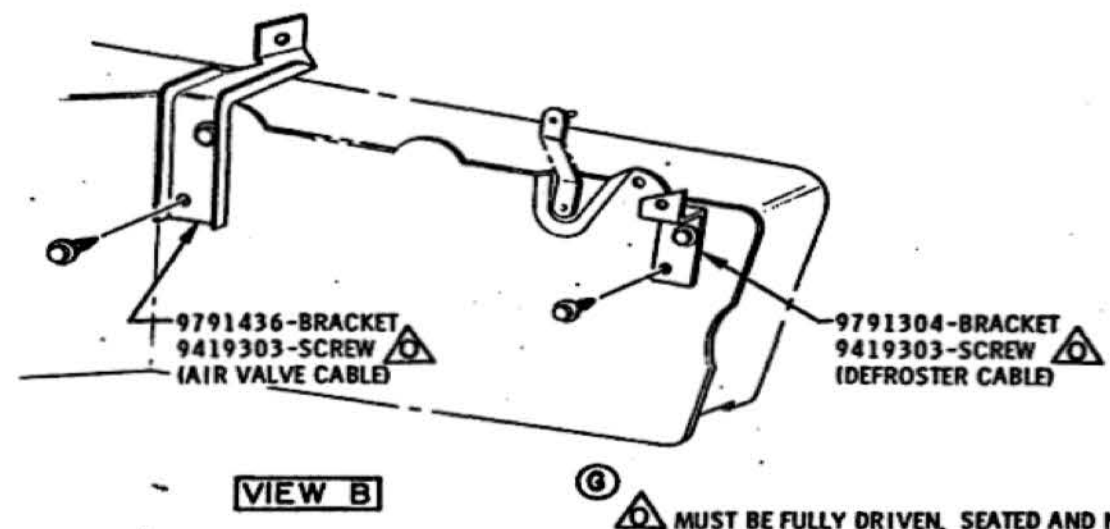
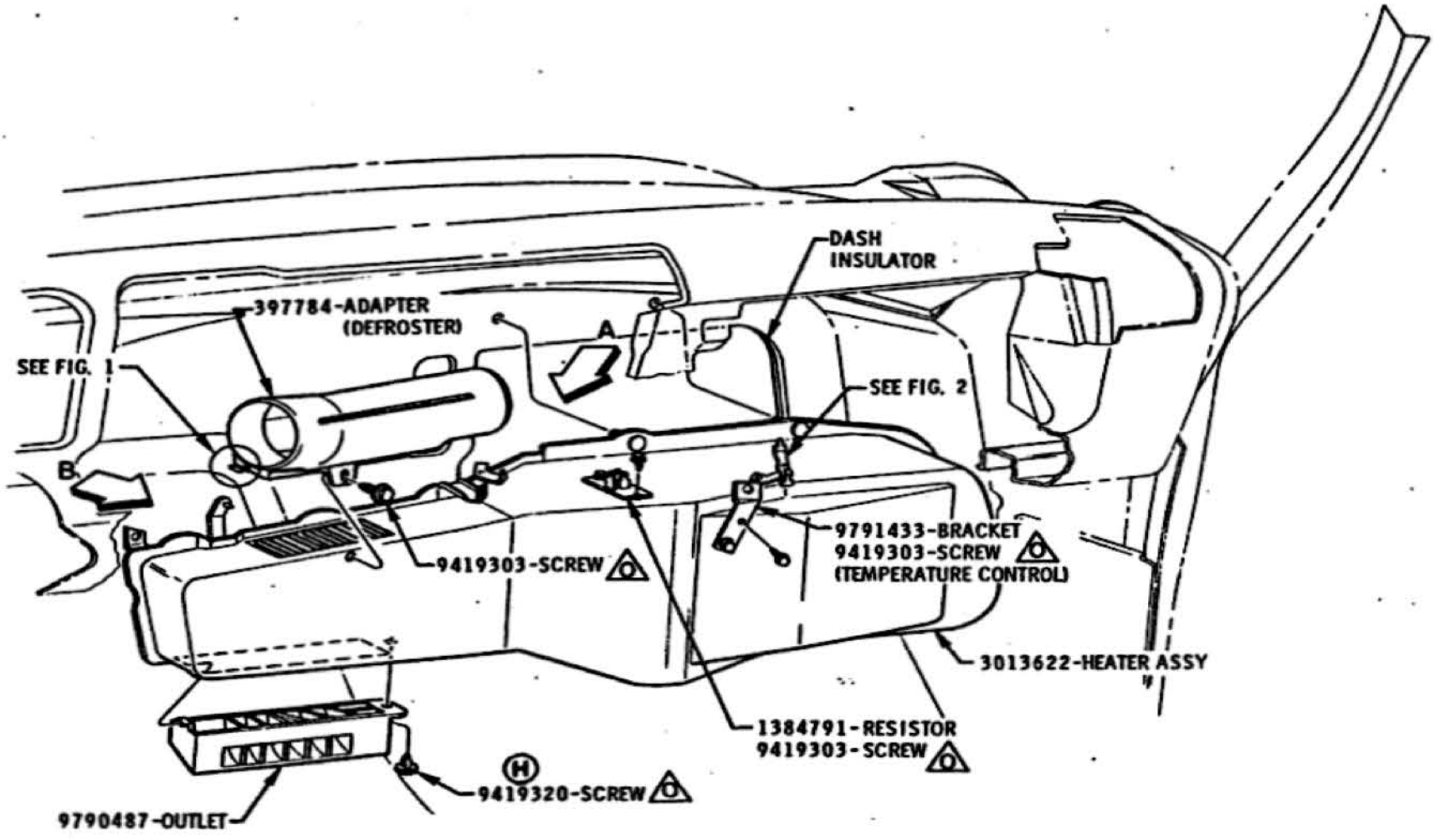
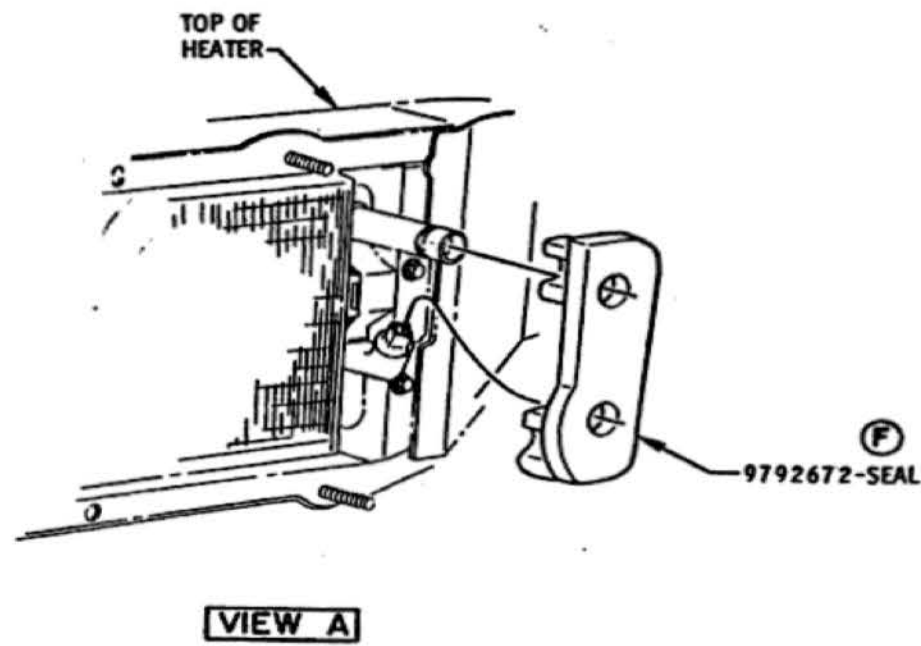
- (B) 7753966-PLATE ASSY R. H.
- 7753967-PLATE ASSY L. H.
(2 DOOR CARS)
- 7725701-PLATE ASSY
(4 DOOR CARS)

INSERT CARPET
OR MAT UNDER SILL
PLATE AND
TIGHTEN SCREWS

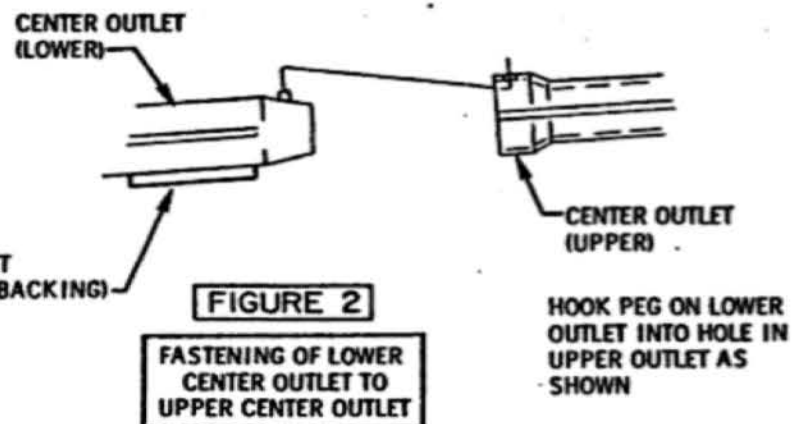
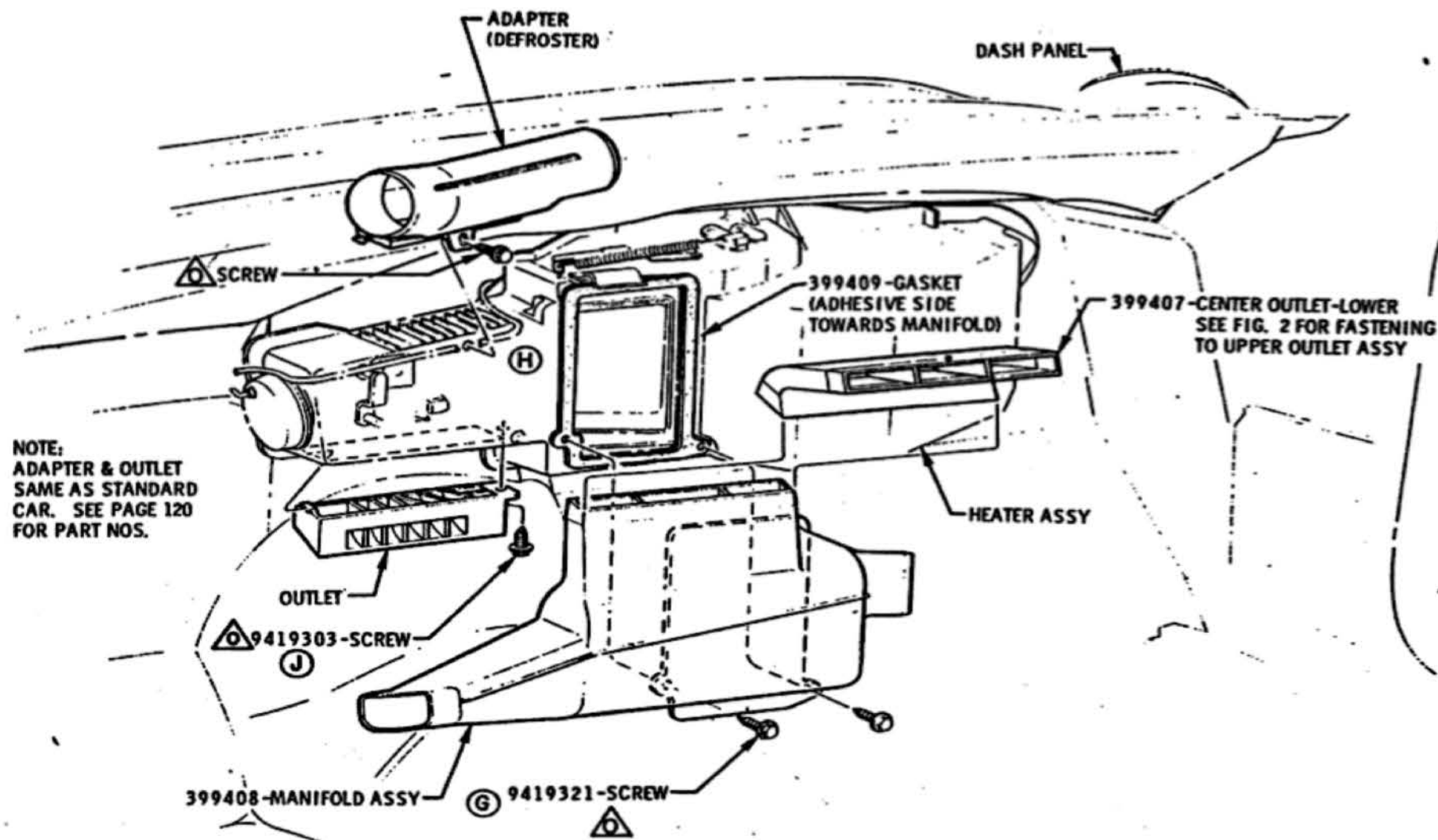
CARPET ASSY OR MAT
(FISHER FURNISH OLDS INSTALL) (D)

⚠ 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	
					7-7-67	D	NOTE REVISED								J13	6P	CARPET OR MAT & SILL PLATES				
					6-23-67	C	TORQUE NOTE ADDED								DT	DATE MAR. 28, 1967	1968		1-1	113	
					4-21-67	B	WAS 7726573-PLATE ASSY								DT	DR. BY B. PARKER					
					4-21-67	A	YHYS PLAT NO. ADDED								DT	CHECKED TGM	REF. 1A1-35B30				
															DT	APPR. TWJ	SERIES A				
															APPR.						
																					PART NO. 398162



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
					6-2-67	E	REVISED TO DETAIL									HEATER ASSEMBLY				
					4-6-67	D	WAS 9776317 SEAL									DATE JAN. 25, 1967	1968		1-1	120
					3-13-67	C	PART NO'S REVISED									DR. BY P. J. McKESSY				
					6-26-67	G	TORQUE NOTE ADDED									CHECKED J. J. J.				
					6-26-67	F	REVISED TO DETAIL									APPR. H. J. J.	REF. 1A2C			
																		SERIES A	PART NO. 398162	



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
					6-20-67	E	TORQUE NOTE ADDED	J13	DT							A/C MANIFOLD ASSY TO HEATER				
		1-5-68	J		3-21-67	D	400846-PAD ADDED		DT	FEB. 24, 1967							1968		1-1	213
		11-8-67	H		3-21-67	C	NOTE ADDED		DT											
		9-11-67	G		3-21-67	B	VIEW REMOVED		DT											
		8-15-67	F		3-21-67	A	BRACKETS REMOVED		DT											
																	REF. 35CW	SERIES A	PART NO. 398162	

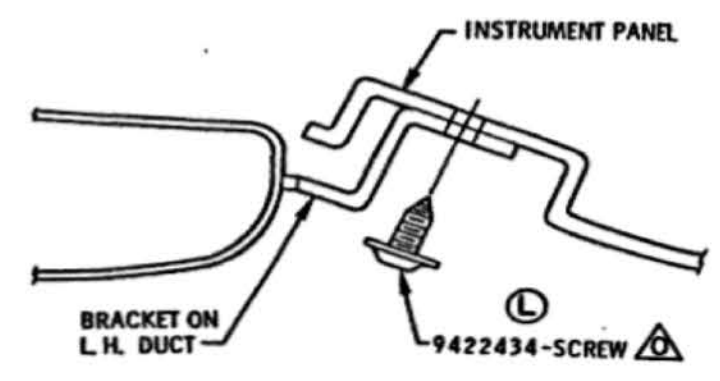
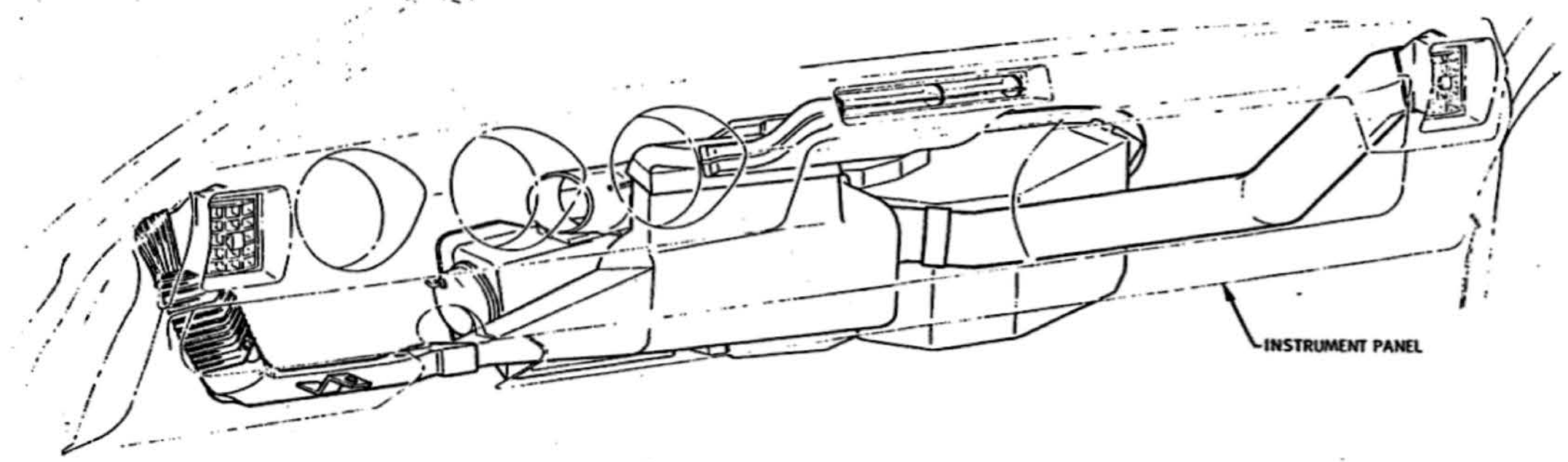
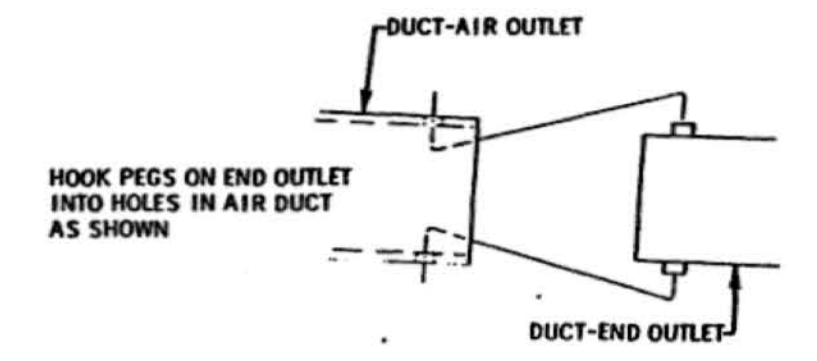
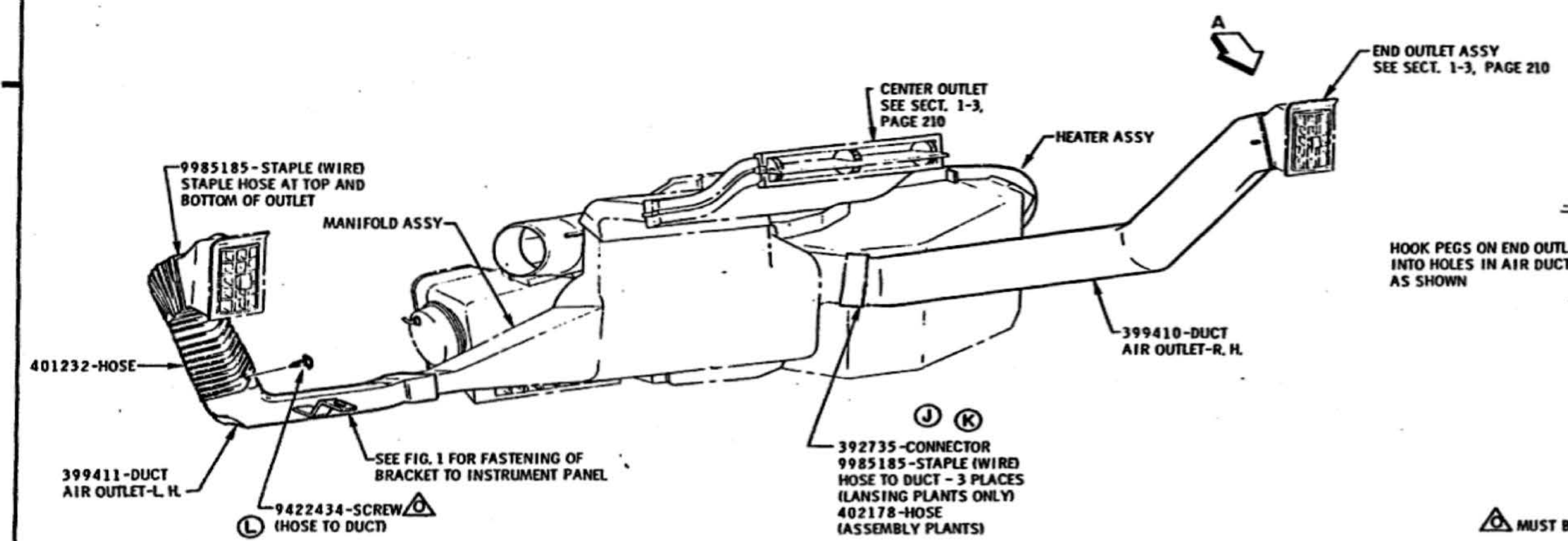


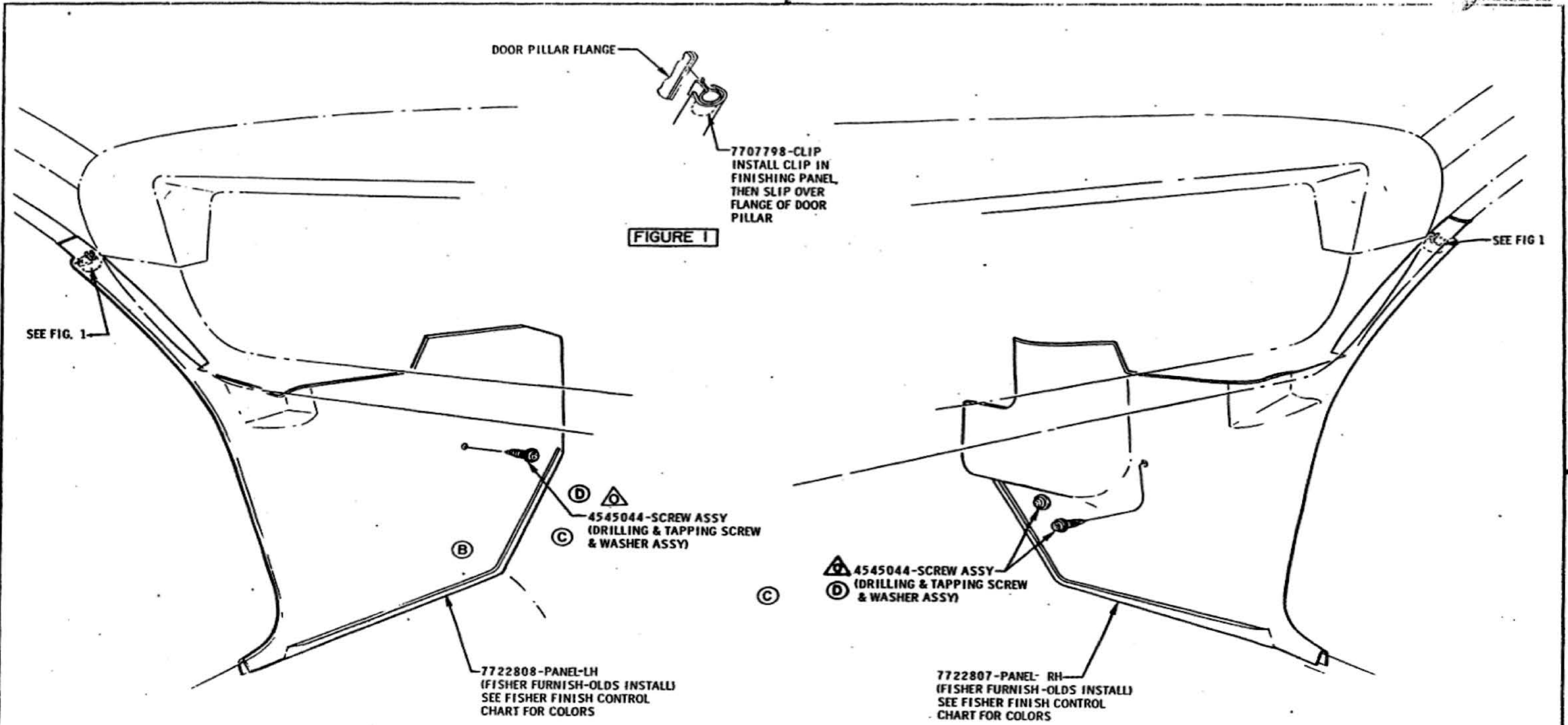
FIGURE 1



VIEW A

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

8-7-66	K	WAS 403452-HOSE	3-11-67	6-30-67	E	TORQUE NOTE ADDED	J-13-67	TITLE	A/C END OUTLET DUCTS
8-7-66	J	WAS 402178-HOSE	3-11-67	5-2-67	D	PART NO. ADDED	2-11-67		

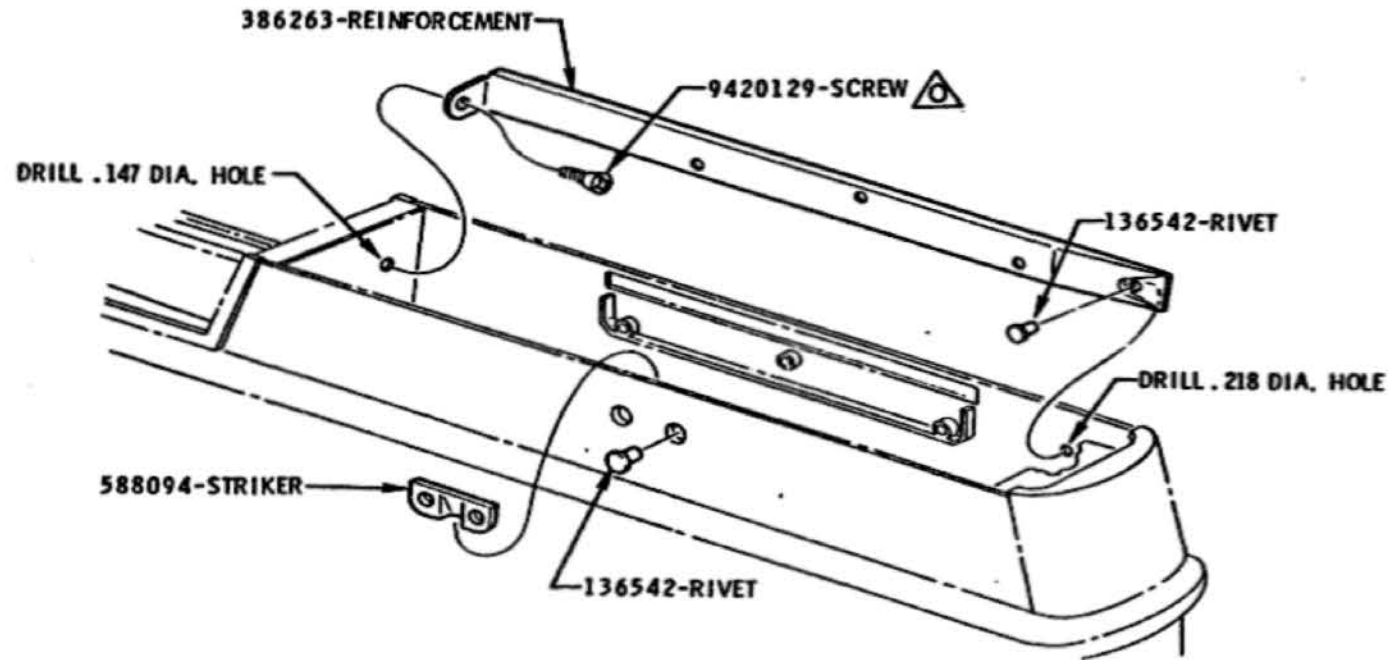


MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

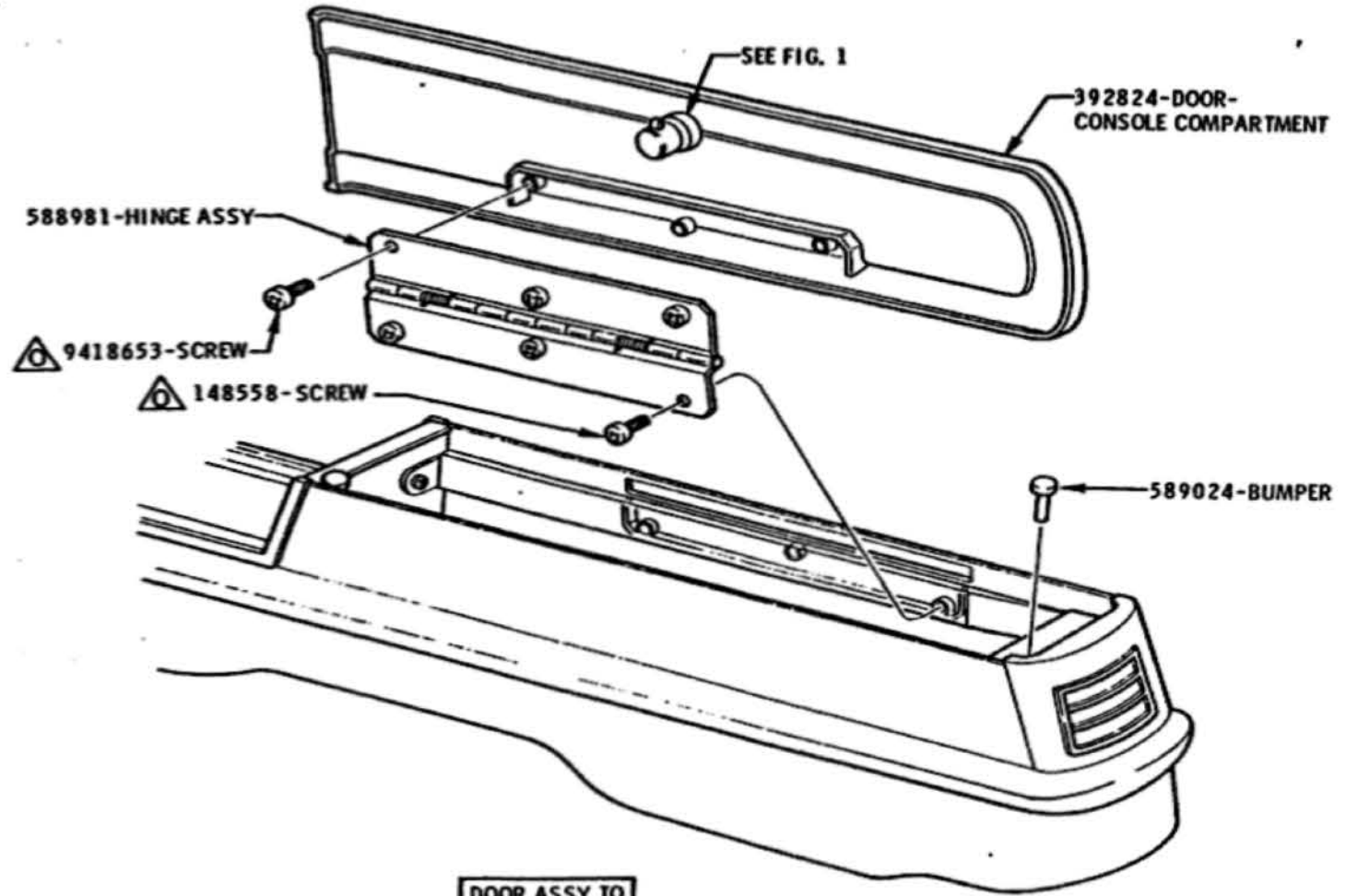
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																A/C SHROUD SIDE FINISHING PANEL	1968		1-1	215
					12-11-67	D	WAS 4720085 SCREW ASSY	B	DT							DATE APR. 12, 1967				
					10-23-67	C	DRILLING NOTES ADDED	B	DT							DR BY B. PARKER				
					11-23-67	B	SCREW USAGE REVISED	B	DT							CHECKED <i>JTB</i>				
					6-23-67	A	TORQUE NOTE ADDED	B	DT							APPR.	REF. 35060-1A7C	SERIES A	PART NO. 398162	



FIGURE 1



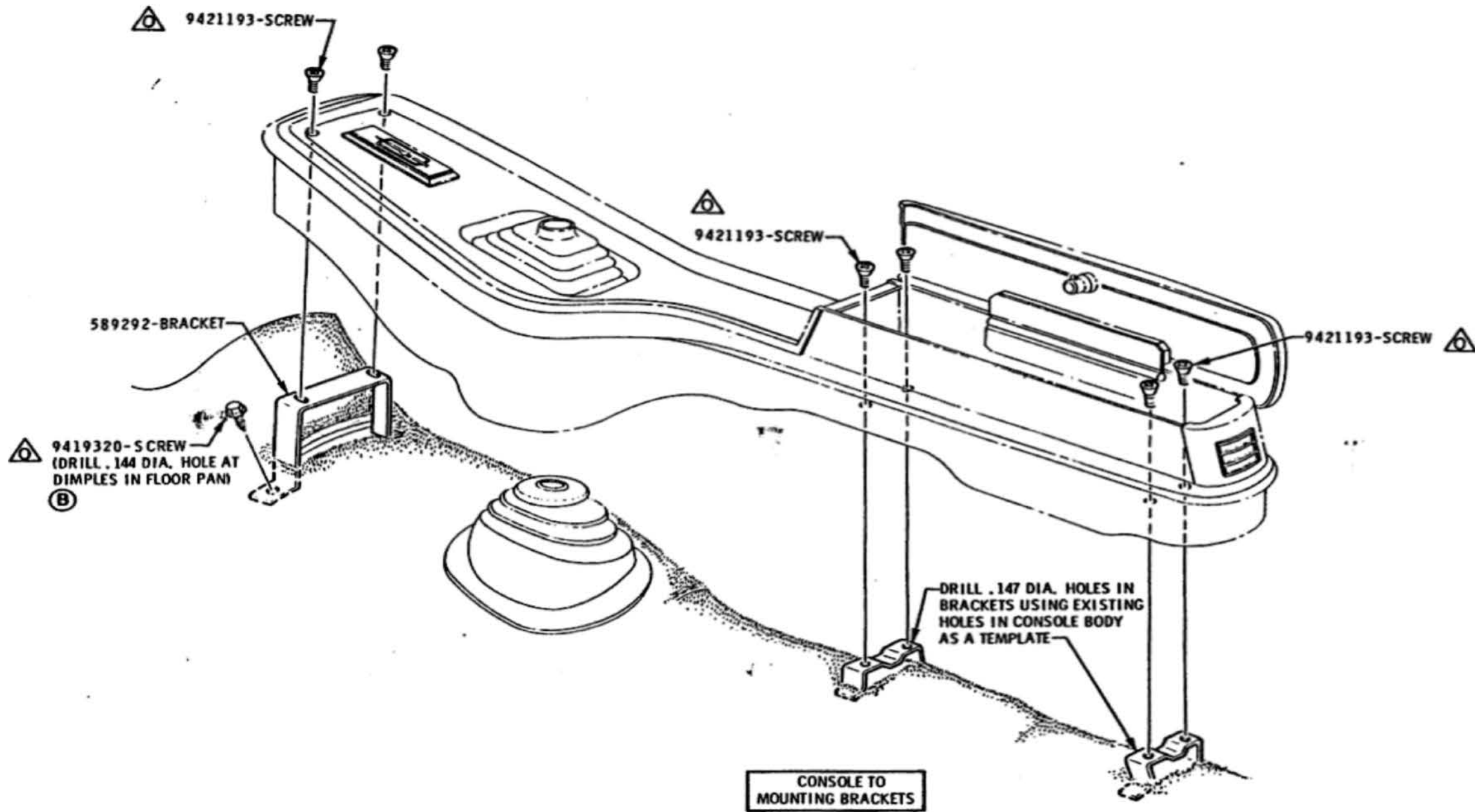
REINFORCEMENT & STRIKER TO CONSOLE BODY



DOOR ASSY TO CONSOLE BODY

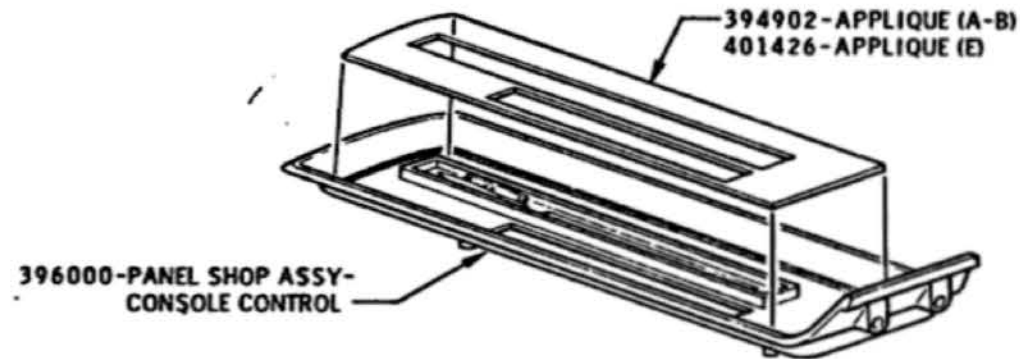
△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

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
					7-6-67	C	PART NO. REMOVED									MANUAL SHIFT CONSOLE	1968		1-1	311
					6-27-67	B	7645832-CYL ASSY									BY W.MASON				
					6-21-67	A	Torque Note Added									CHECKED	REF. 35255			
																APPR. H. Mason		SERIES A	PART NO. 398162	



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
																MANUAL SHIFT CONSOLE	1968		1-1	312
							11-11-67	B				NOTE ADDED			W. MASON					
							6-21-67	A				Torque Note Added								
																	REF. 35 D 55	SERIES A	PART NO. 398162	

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.



APPLIQUE TO
CONTROL PANEL ASSY

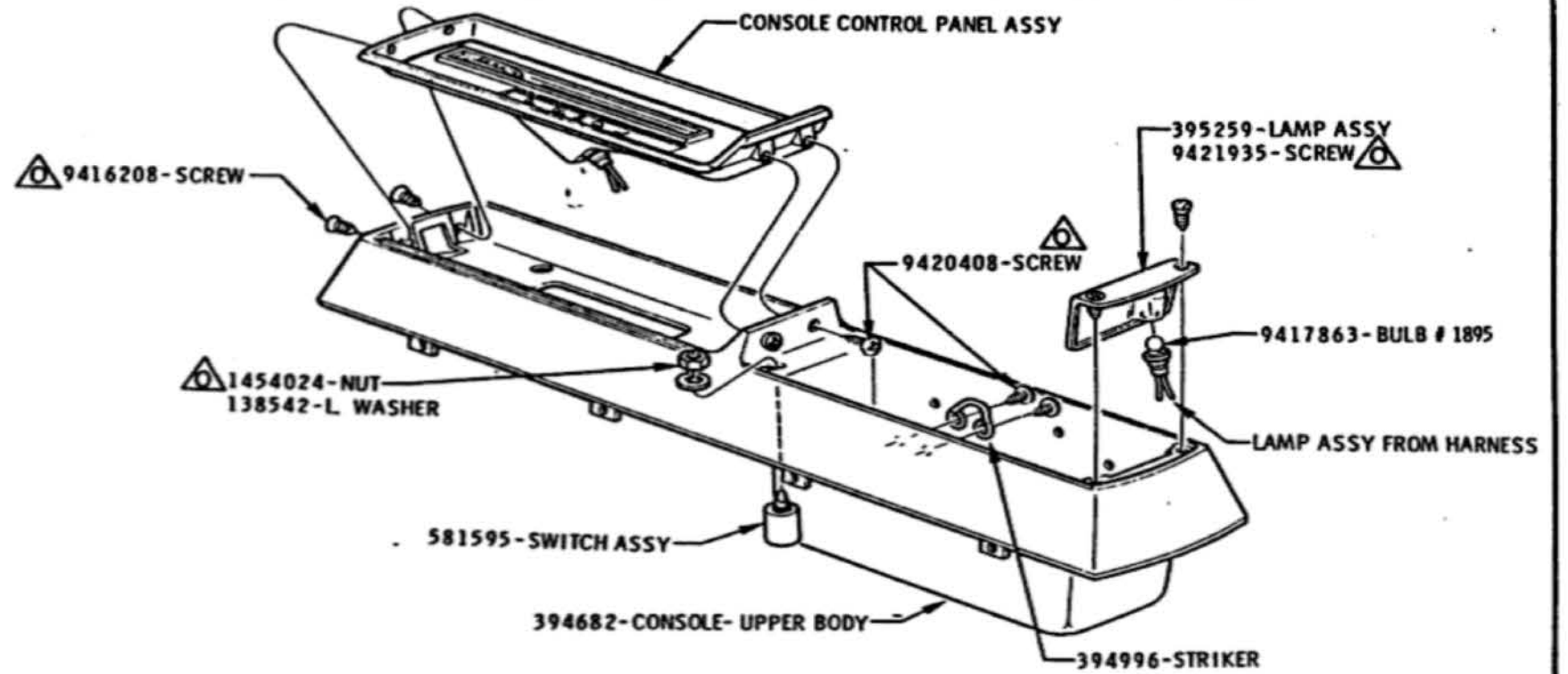
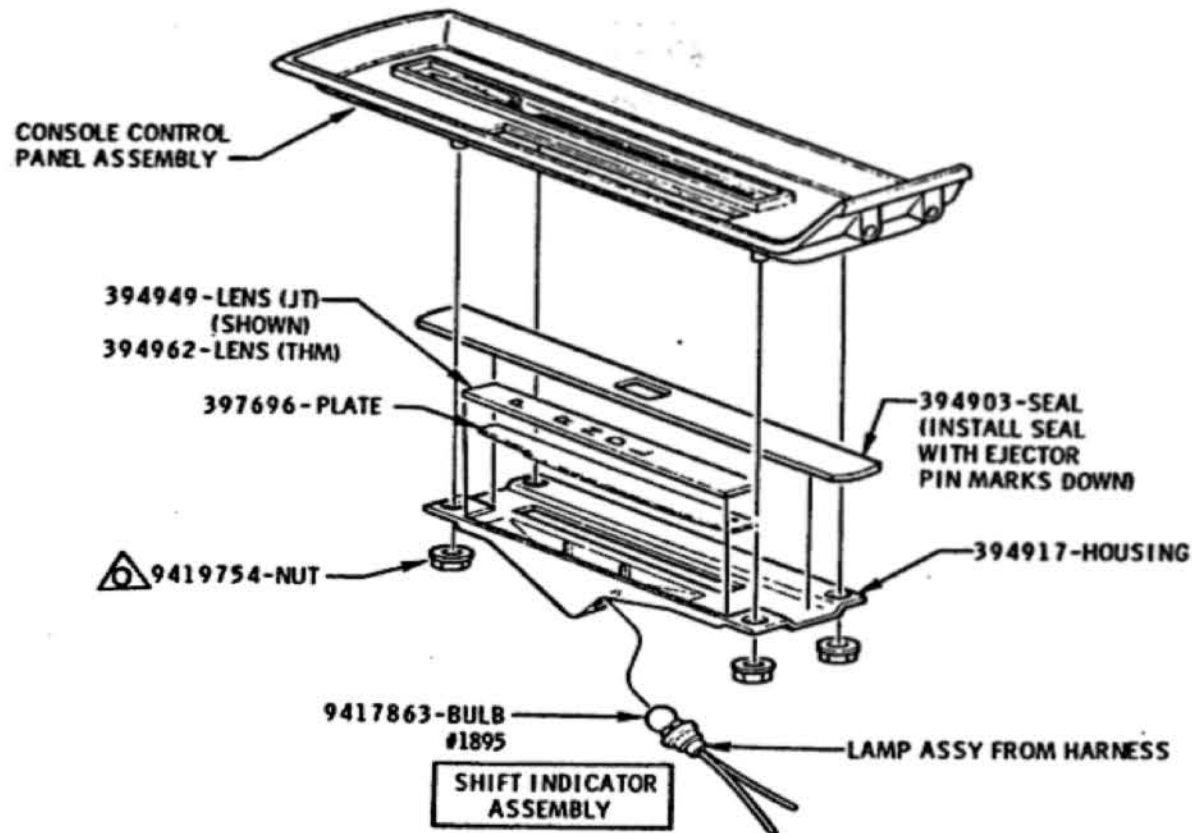
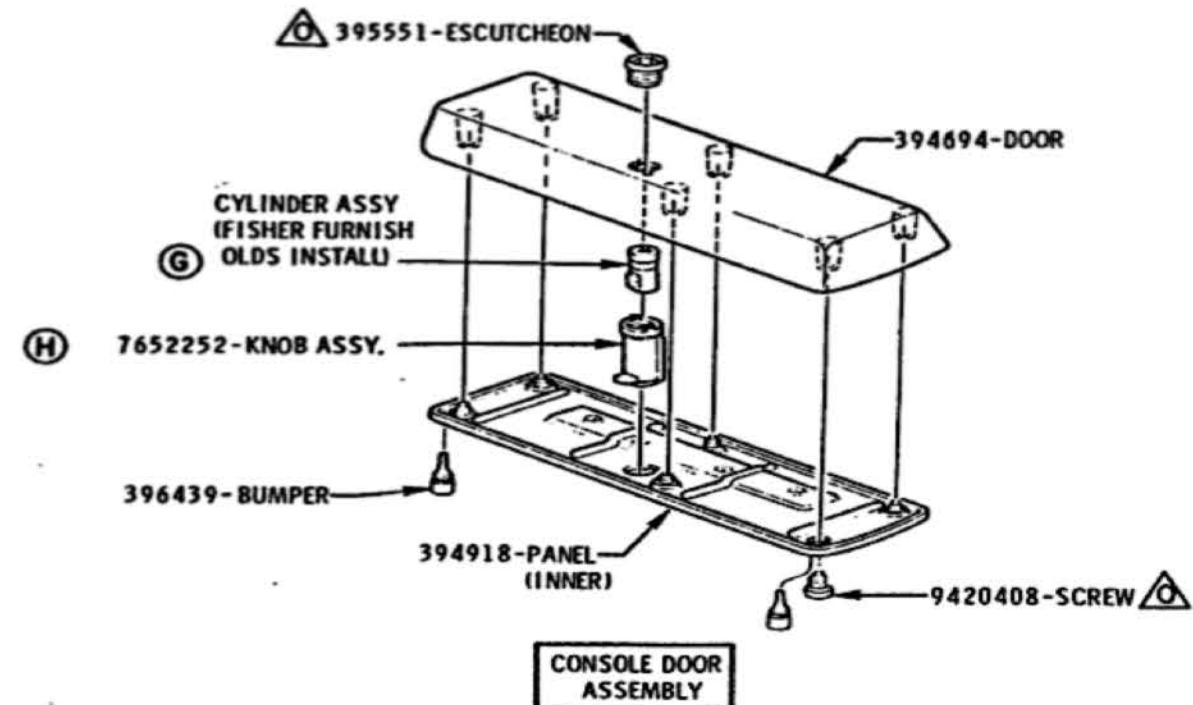
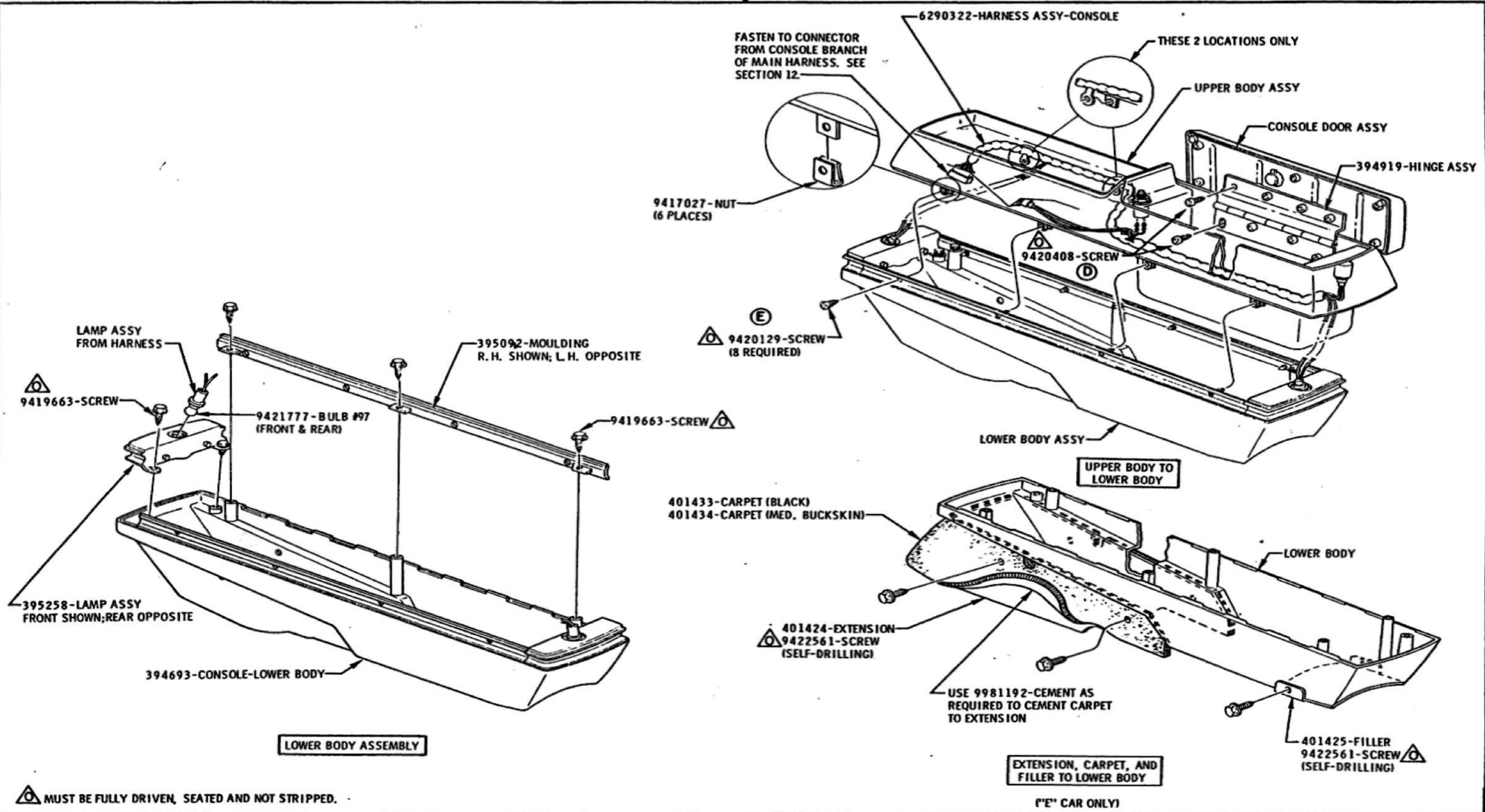


FIGURE 1
UPPER BODY ASSEMBLY



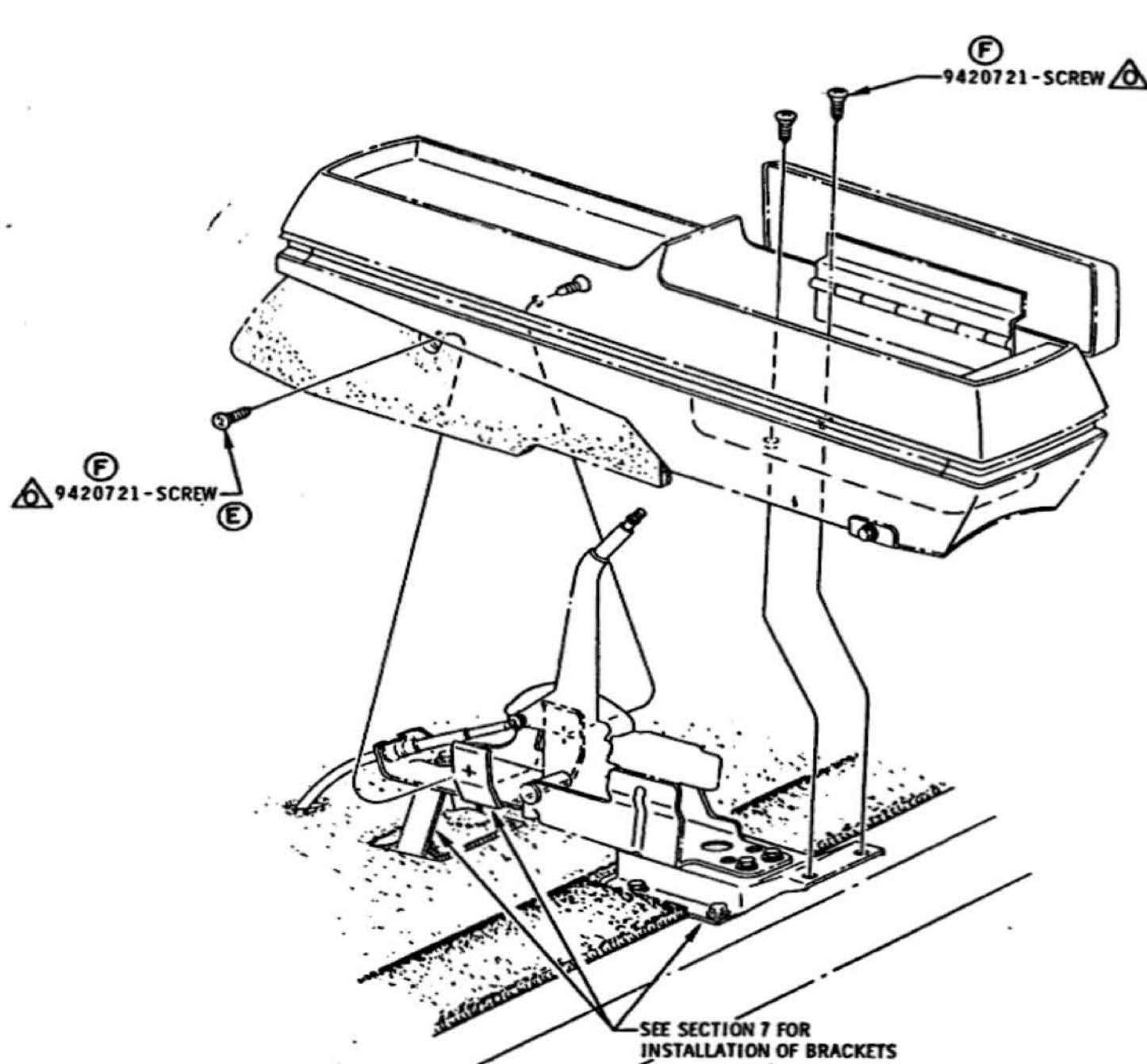
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					6-7-67	E	RELEASED FOR "I" CAR												CONSOLE-AT FLOOR SHIFT				
					5-24-67	D	"SM" CONSOLE INFO. REMOVED												NOV. 30, 1966	1968		1-1	315
					3-13-67	C	USAGE ADDED												DR. BY WE MASON				
					2-28-67	B	WAS 7645832 CYLINDER												CHECKED				
					2-28-67	A	NOTE REMOVED												APPR. H. J. W. L.				
					6-23-67	F	TORQUE NOTE ADDED												REF. JS USS M 31, PNO, PNI 7A	SERIES	PART NO.		
																				A-B-E			398162-3-4



△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

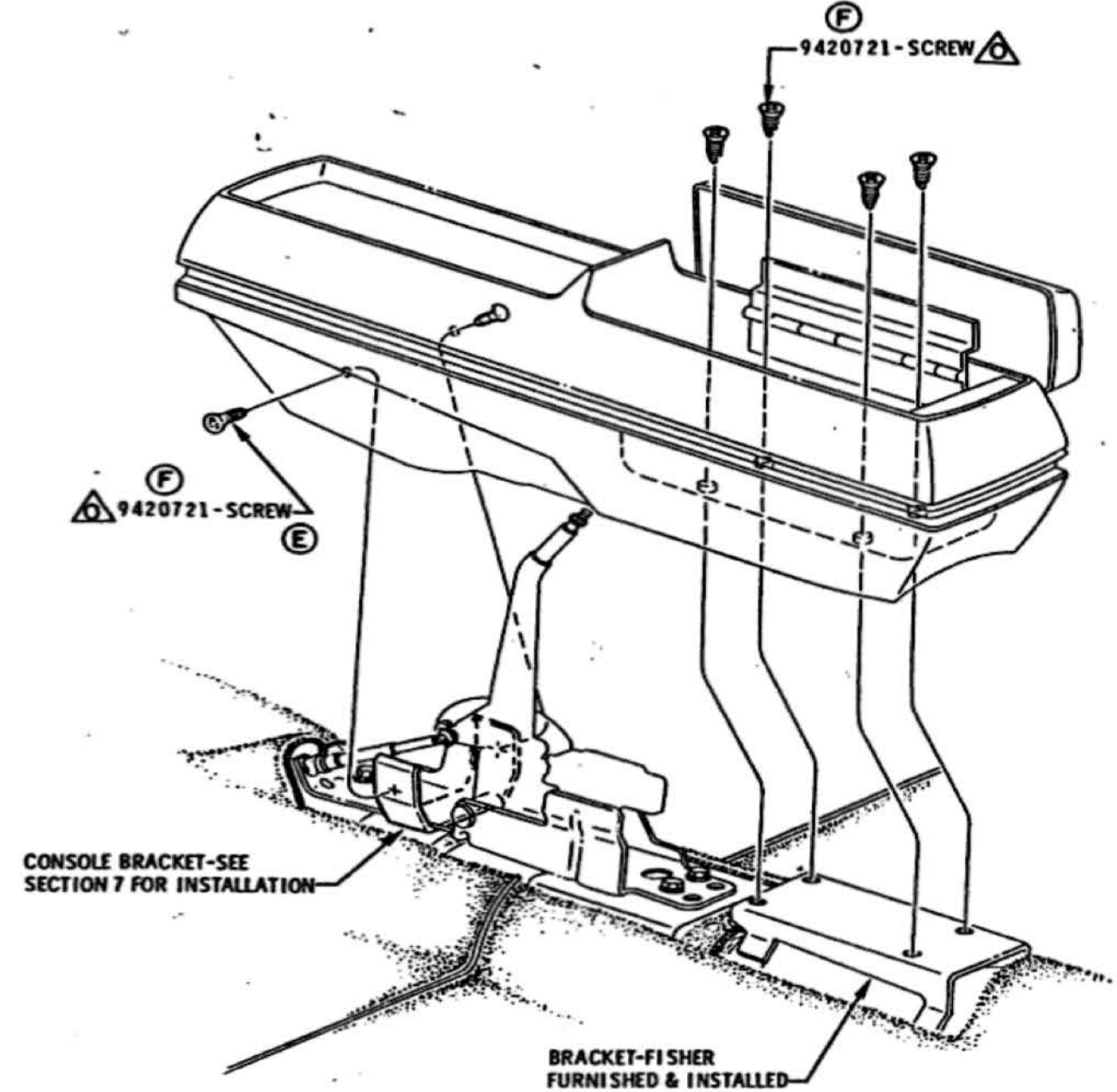
(F'E' CAR ONLY)

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
					10-2-67	E	WAS 9021935-SCREW	DR.								DATE NOV 30, 1966	1968		1-1	316
					6-27-67	D	TORQUE SYMBOL ADDED	DR.								DR. BY W.E. MASON				
					6-23-67	C	TORQUE NOTE ADDED	DR.								CHECKED				
					6-7-67	B	RELEASED FOR F' CAR	DR.								APPR. H. Mason				
					5-24-67	A	"SM" CONSOLE INFO. REMOVED	DR.									REF 35055	SERIES A-B-E	PART NO. 398162-3-4	



CONSOLE TO MOUNTING BRACKET

("E" CAR)



CONSOLE BRACKET-SEE SECTION 7 FOR INSTALLATION

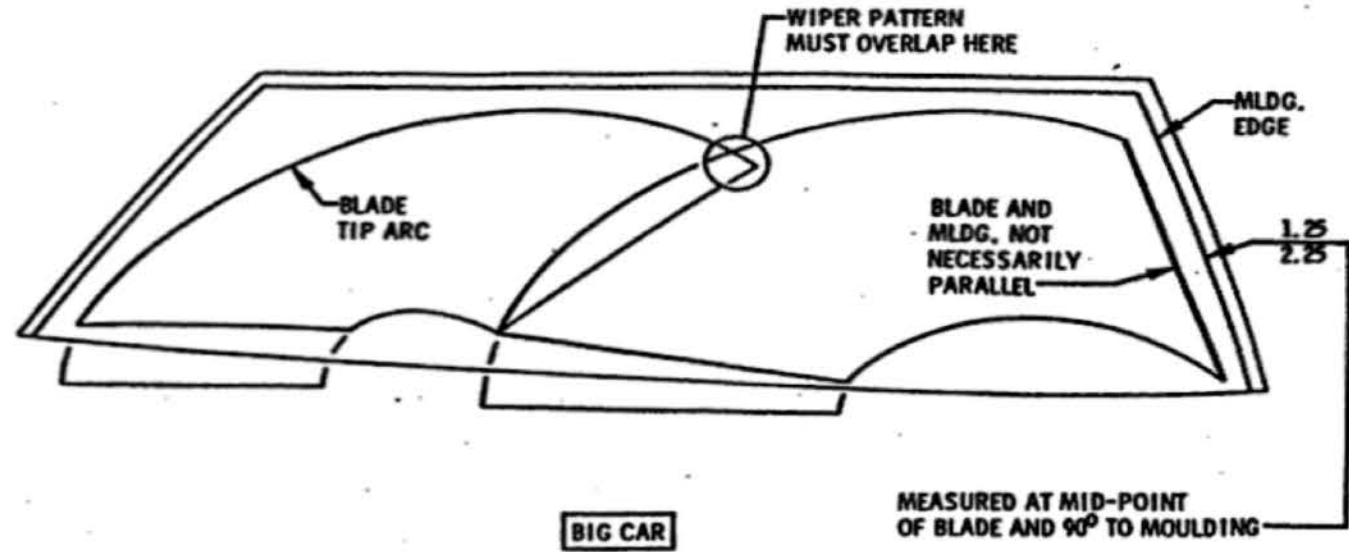
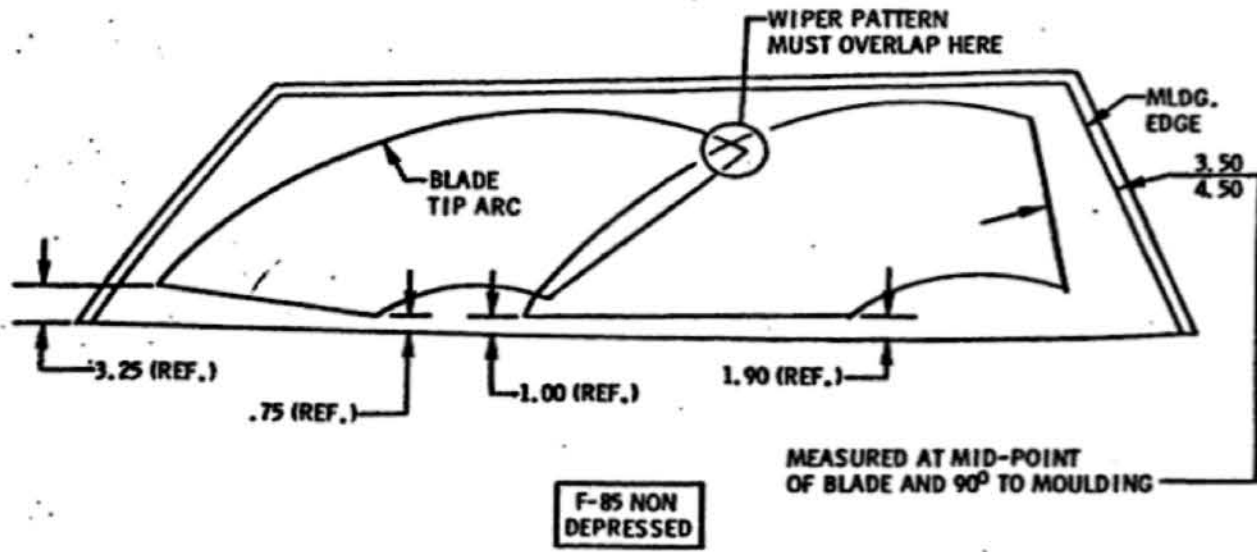
CONSOLE TO MOUNTING BRACKET

("A" & "B" CAR)

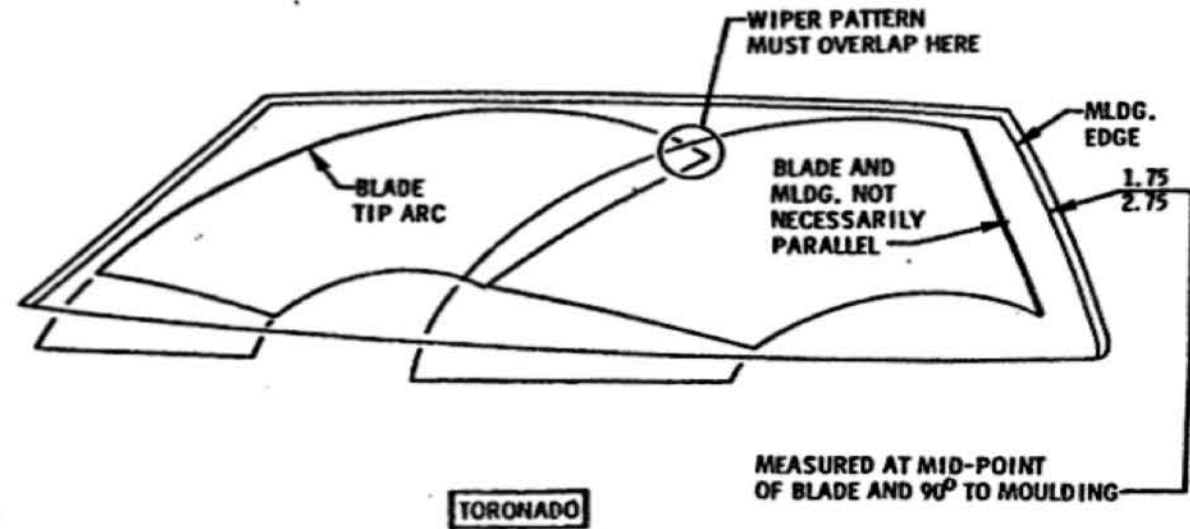
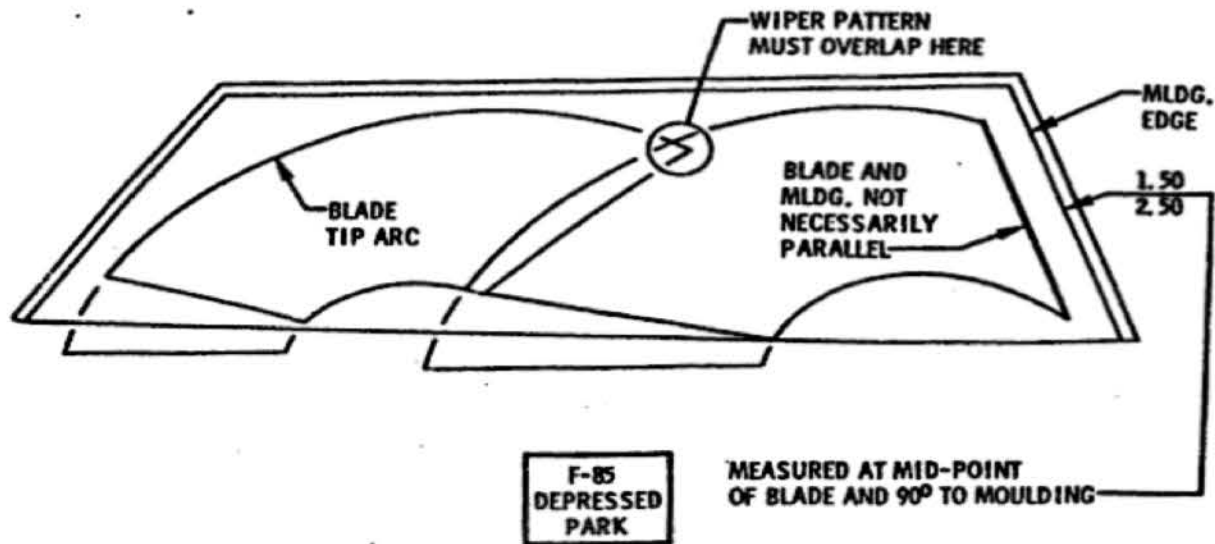
NOTE (D)
FOR CARPET CUTOUT INFORMATION
SEE SECTION 0, PAGE 146 ("E" CAR ONLY).

(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
					12-21-67	E2	WAS 9422561 SCREW	PL	DT							CONSOLE-AT FLOOR SHIFT	1968		1-1	317
					7-1-67	D	NOTE ADDED									DATE NOV. 30, 1966				
					6-23-67	C	TOP SIDE NOTE ADDED									DR. BY W.E. MASON				
					6-15-67	B	VIEW ADDED									CHECKED <i>[Signature]</i>				
					6-6-68	F4	WAS 9427324 - SCREW	PL	DT	5-24-67	A	SM CONSOLE INFO. REMOVED				APPR. <i>[Signature]</i>				
																REF.	SERIES	PART NO.		
																	A-B-E	398162-3-4		



DIMENSIONS AND OTHER INFORMATION SHOWN CAN BE USED TO VERIFY THE PROPER INSTALLATION OF THE W/S WIPER SYSTEMS. THESE DIMENSIONS SHOULD PREVAIL IF PARTS ARE TO PRINT, AND IF THE SYSTEMS HAVE BEEN INITIALLY ADJUSTED CORRECTLY. THEY APPLY TO WET GLASS CONDITIONS AND THE HIGH SPEED SETTING.

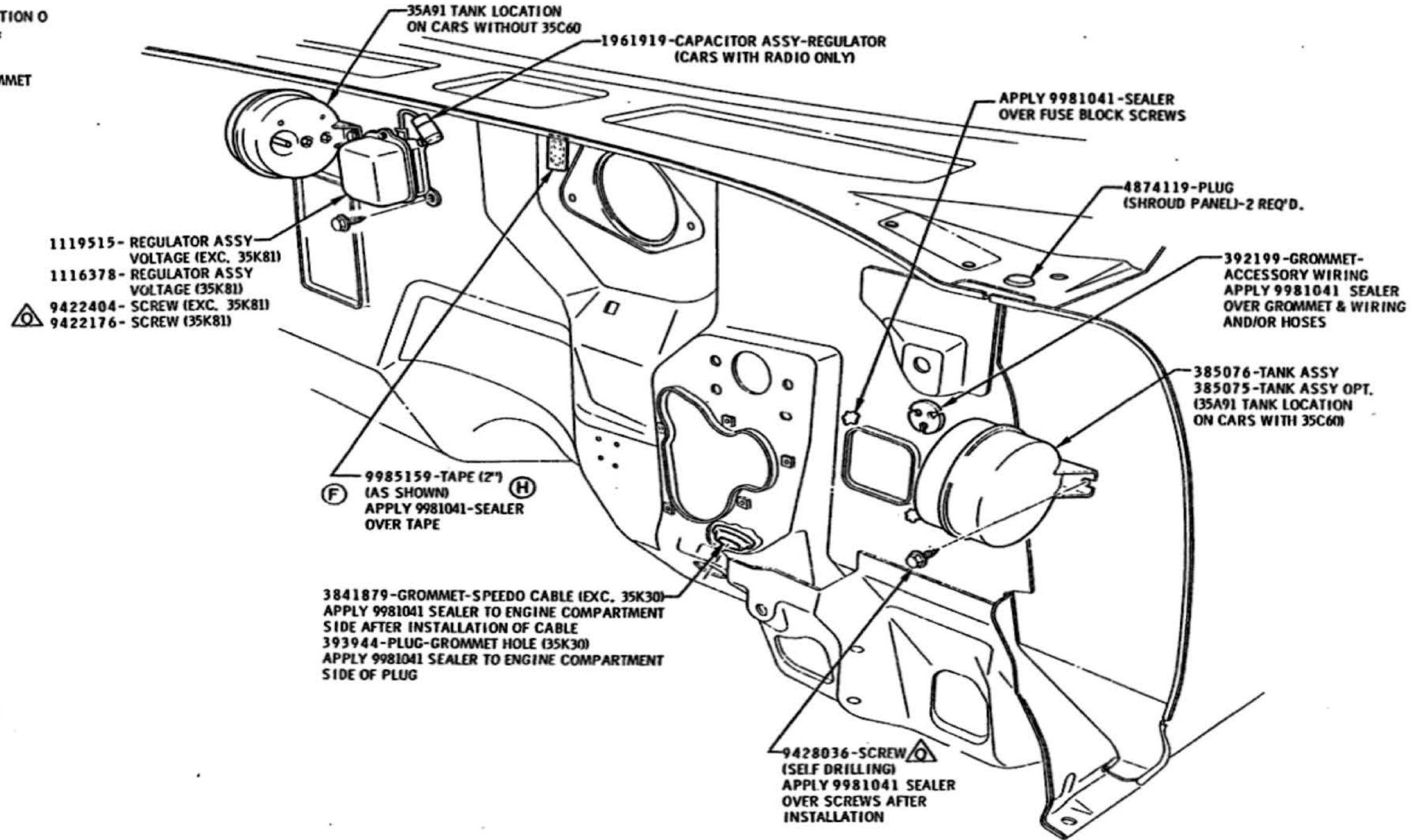


ALL VIEWS FROM FRONT OF CAR

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

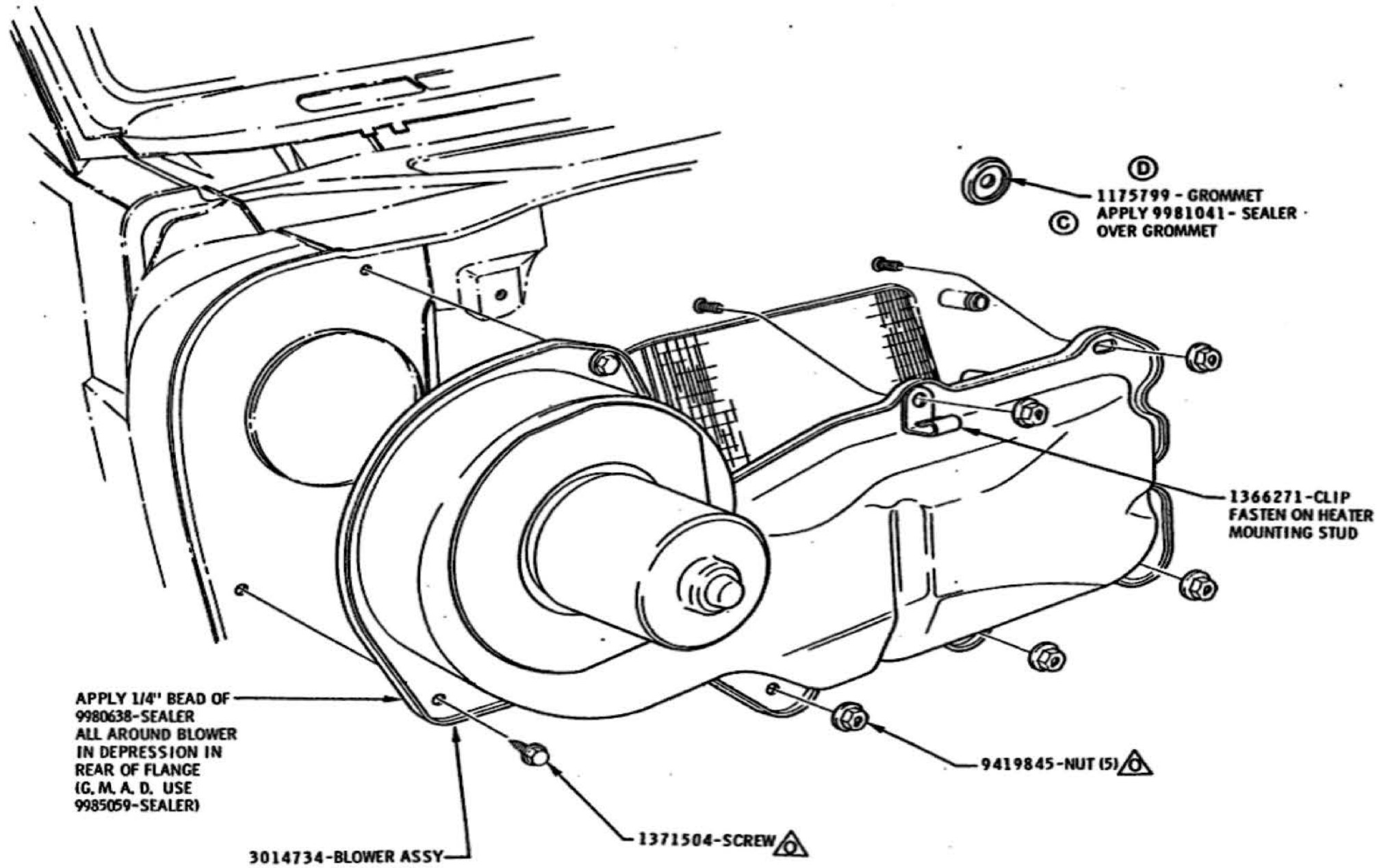
TITLE																CHART - WIPER BLADE PATTERNS							
DATE																FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
MAR. 22 1968																1968		INFORMATION MANUAL		1-2		100	
DR. BY																REF.		SERIES		PART NO.			
BEAUDOIN																1A20		A-B-C-E		398162-3-4			
CHECKED																							
TRIF																							
APPR.																							
APPR.																							

SEE DRILLING LAYOUT SECTION O
FOR PROPER LOCATION OF:
VACUUM TANKS
VOLTAGE REGULATOR
ACCESSORY WIRING GROMMET



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	SERIES	PART NO.	
					5-26-67	E	385075 TANK OPT. ADDED	ET	DT							VACUUM TANKS, PLUGS & REGULATOR	1968		1-2	112	A	398162	
		1-10-68	J				VIEW REMOVED	BP	DT	5-11-67	DA	NOTES REVISED				DATE APR 6, 1967							
		1-12-68	H				NOTE REVISED	HJ	DT	4-29-67	C	VIEW ADDED				DR BY BOYER							
		6-27-67	G				TORQUE NOTE ADDED	BQ	DT	1-24-67	B	WAS 9423329 SCREW				CHECKED JETRA							
		2-12-67	F				NOTE ADDED	BT	DT	4-22-67	A	WAS 9420415 SCREW				APPR.							



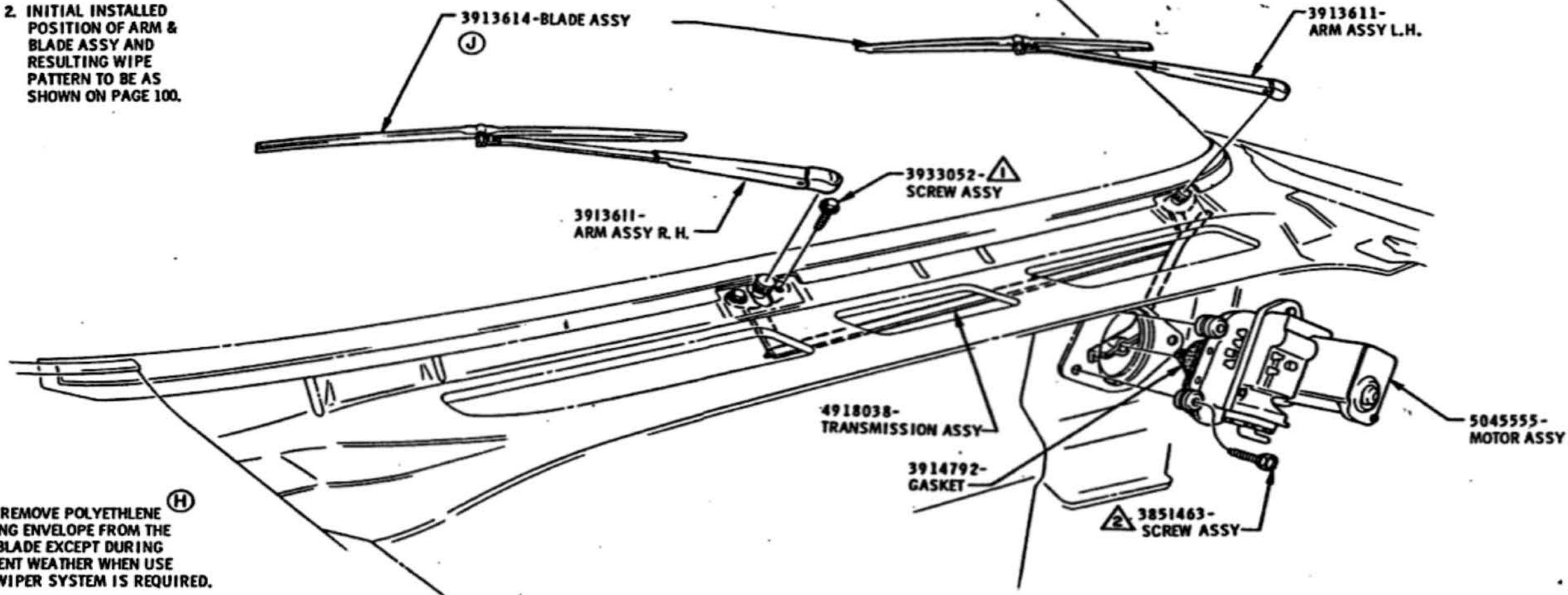
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

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 SEC.	PAGE	PART NO.
					6-30-67	E	TORQUE NOTE ADDED	J13	DT												HEATER BLOWER	1968		1-2	113	
					8-24-67	D	PART NO ADDED	B3	DT												DATE FEB. 9, 1967					
					3-28-67	C	GROMMET ADDED	B1	DT												DR. BY B. PARKER					
					3-15-67	B	WAS 3007080 BLOWER	FJ	DT												CHECKED JGM					
					2-27-67	A	WIRING REMOVED	J13	DT												APPR.	REF. 1A2C	SERIES A			398162

- NOTE:
1. THE ELEMENT REMOVAL CLIP OR BUTTON ON WIPER BLADE MUST BE TOWARD BOTTOM OF WINDSHIELD WHEN BLADE IS INSTALLED TO ARM.
 2. INITIAL INSTALLED POSITION OF ARM & BLADE ASSY AND RESULTING WIPE PATTERN TO BE AS SHOWN ON PAGE 100.

(K)

1. THE ELEMENT REMOVAL CLIP OR BUTTON ON WIPER BLADE MUST BE TOWARD BOTTOM OF WINDSHIELD WHEN BLADE IS INSTALLED TO ARM.
2. INITIAL INSTALLED POSITION OF ARM & BLADE ASSY AND RESULTING WIPE PATTERN TO BE AS SHOWN ON PAGE 100.



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



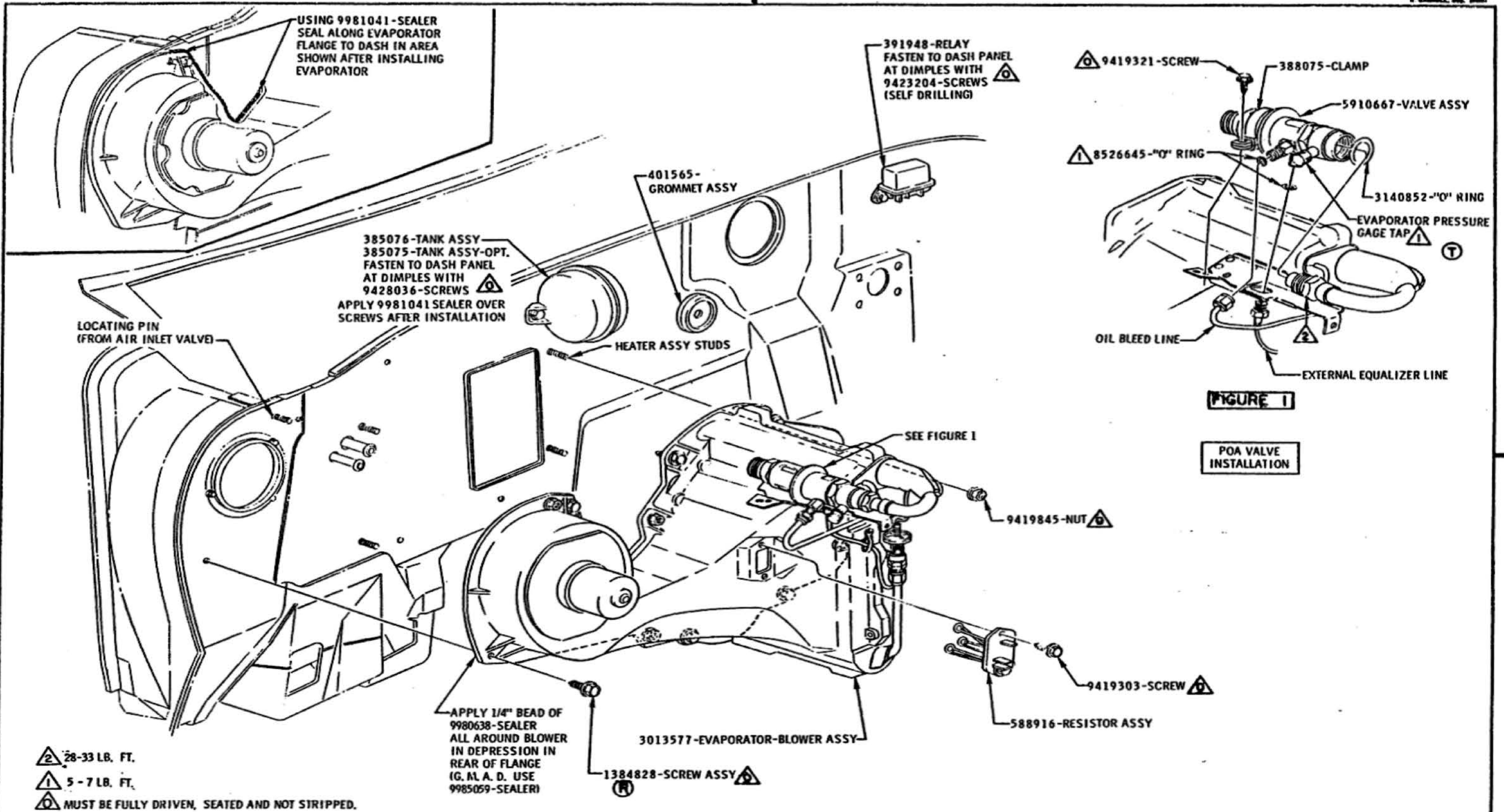
FIGURE 1

TRANSMISSION FASTENING TO WIPER MOTOR

- 3 20 - 30 LB. IN.
- 2 35 - 45 LB. IN.
- 1 45 - 60 LB. IN.

SEE SECT. 12, PAGE 133 FOR MOTOR WIRING

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
5-1-68	K	NOTE REVISED	PL	DT	7-25-67	E	WAS 3832845 SCREW ASSY	DT								WINDSHIELD WIPERS - NON-DEPRESSED PARK	1968		1-2	116
1-17-68	J	3926741-OPT. REMOVED	DT		7-25-67	D	NOTE ADDED	DT								DATE APR. 13, 1967				
1-8-68	H	ENVELOPE NOTE ADDED	DT		7-7-67	C	TORQUE ADDED	DT								DR. BY BEAUDOIN				
9-18-67	G	3926741-BLADE ASSY ADDED	DT		5-11-67	B	WAS 5045556-MOTOR	DT								CHECKED				
8-31-67	F	ARM ASSY REVISED	DT		4-11-67	A	WAS 3913612-ARM ASSY	DT								APPR. F. J. [Signature]	REF. 1A2D	SERIES A	PART NO. 398162	



REVISIONS										TITLE				DASH PANEL A/C COMPONENTS					
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
										3-18-68	T	TORQUE ADDED TO GAGE TAP	PL	DT		1968		1-2	215
										3-18-68	S	REDRAWN & REVISED	PL	DT					
										1-29-68	A	WAS 1386251-SCREW ASSY	BL	DT					

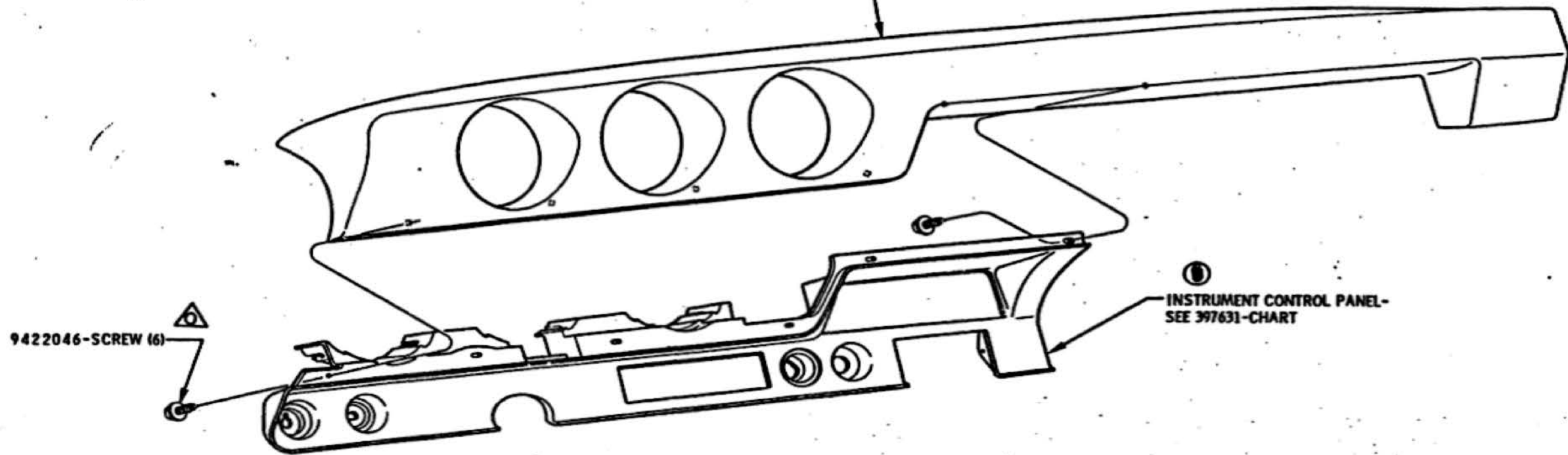
DATE JAN. 16, 1967
 DR. BY B. PARKER
 CHECKED JEM
 APPR. 11/10/67

REF. 35C60

SERIES A

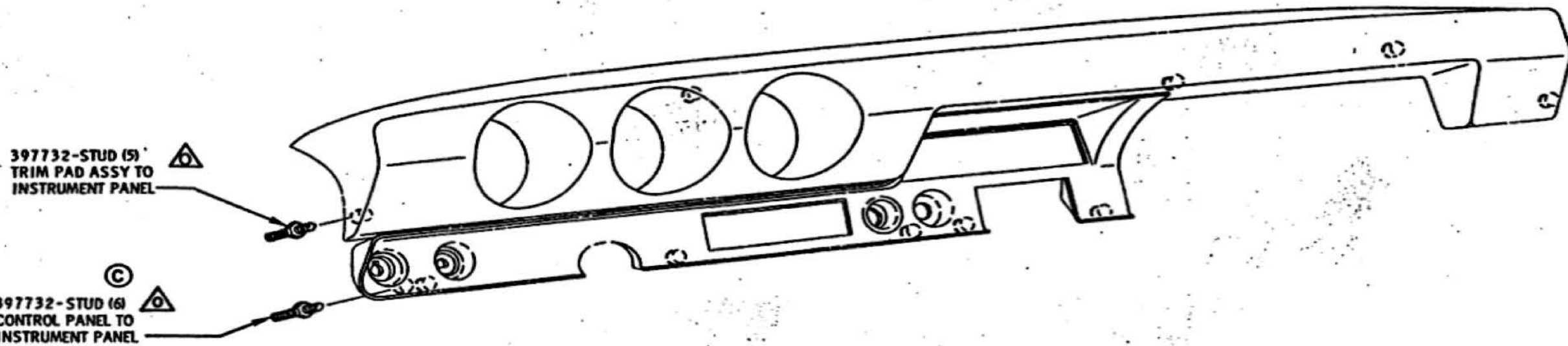
PART NO. 398162

PAD ASSY - SEE 397929-CHART (EXCEPT 35C60)
PAD ASSY - SEE 398258-CHART (WITH 35C60)



9422046-SCREW (6)

INSTRUMENT CONTROL PANEL -
SEE 397631-CHART



397732-STUD (5)
TRIM PAD ASSY TO
INSTRUMENT PANEL

397732-STUD (6)
CONTROL PANEL TO
INSTRUMENT PANEL

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE										TRIM PAD ASSEMBLY TO CONTROL PANEL						
										DATE	NOVEMBER 15, 1966	FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE
										DR. BY	ED J. ROE			INFORMATION MANUAL	1-3	110
										CHECKED	J. J. Gannhart	REF.	1A2B	SERIES		PART NO.
										APPR.	J. J. Gannhart			A		398162
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	

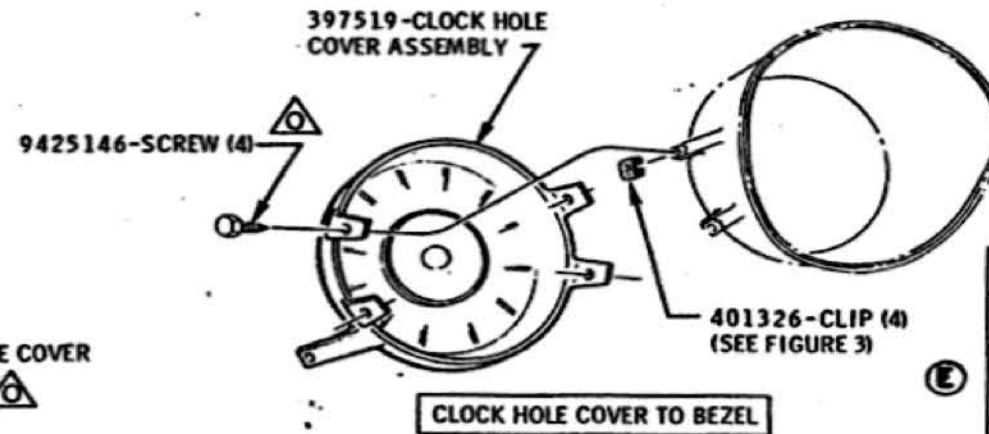
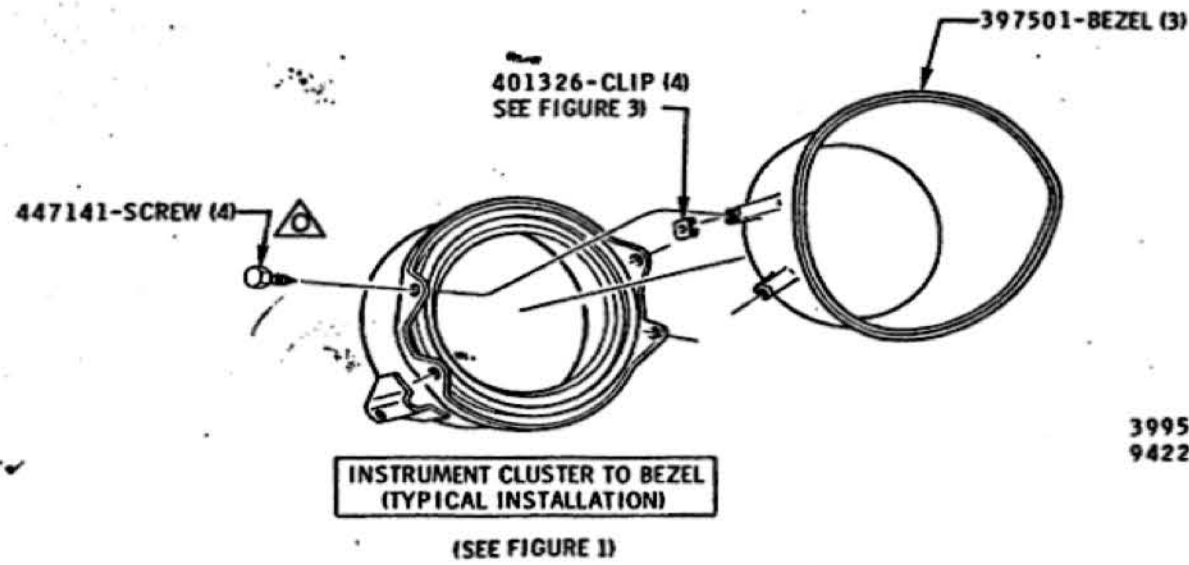
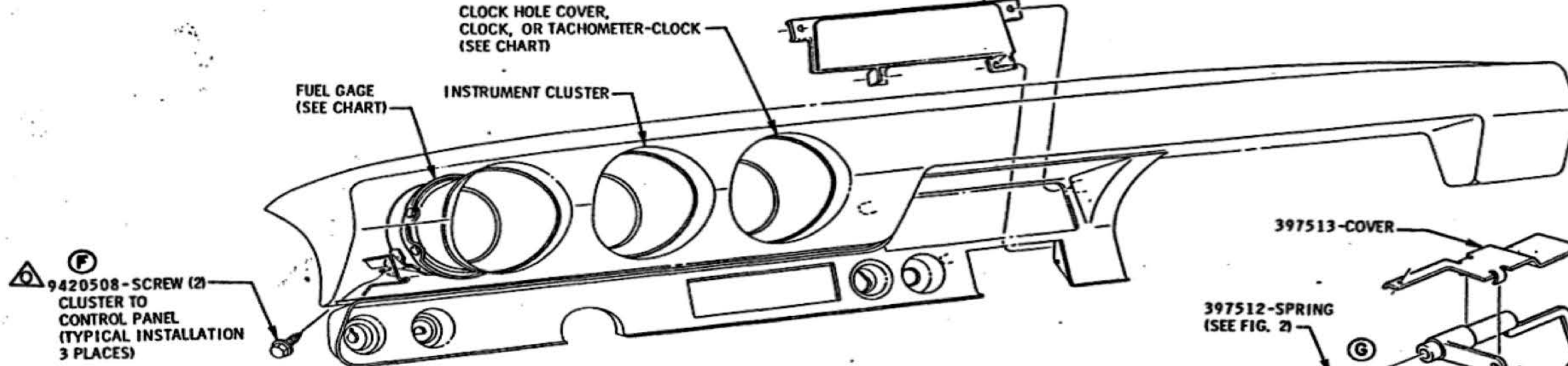


CHART - INSTRUMENT	
PART NO.	INSTRUMENT
6459769	FUEL GAGE & TELL TALE ASSY
SEE CHART PAGE 100	INSTRUMENT CLUSTER ASSY
397277 (BORG) 397278 (WESTCLOX)	CLOCK
6459770	TACHOMETER & CLOCK ASSY (35U21)
6459771	FUEL GAGE & TELL TALE ASSY (35U21)



⚠ (F) 9420508-SCREW (2)
CLUSTER TO CONTROL PANEL
(TYPICAL INSTALLATION 3 PLACES)

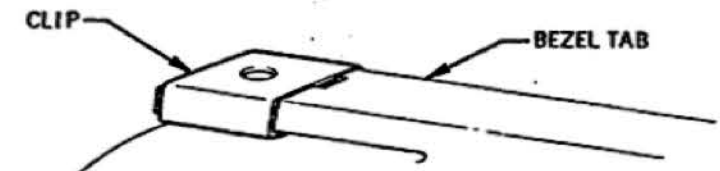


FIGURE 3
NUT TO BEZEL

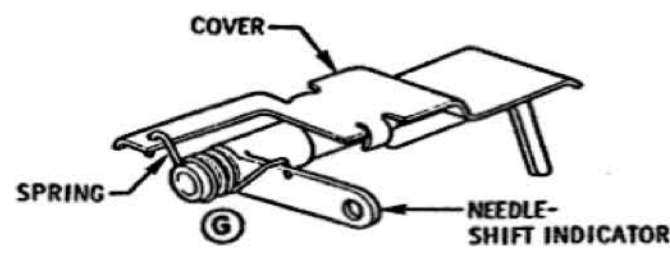


FIGURE 2
SPRING INSTALLATION

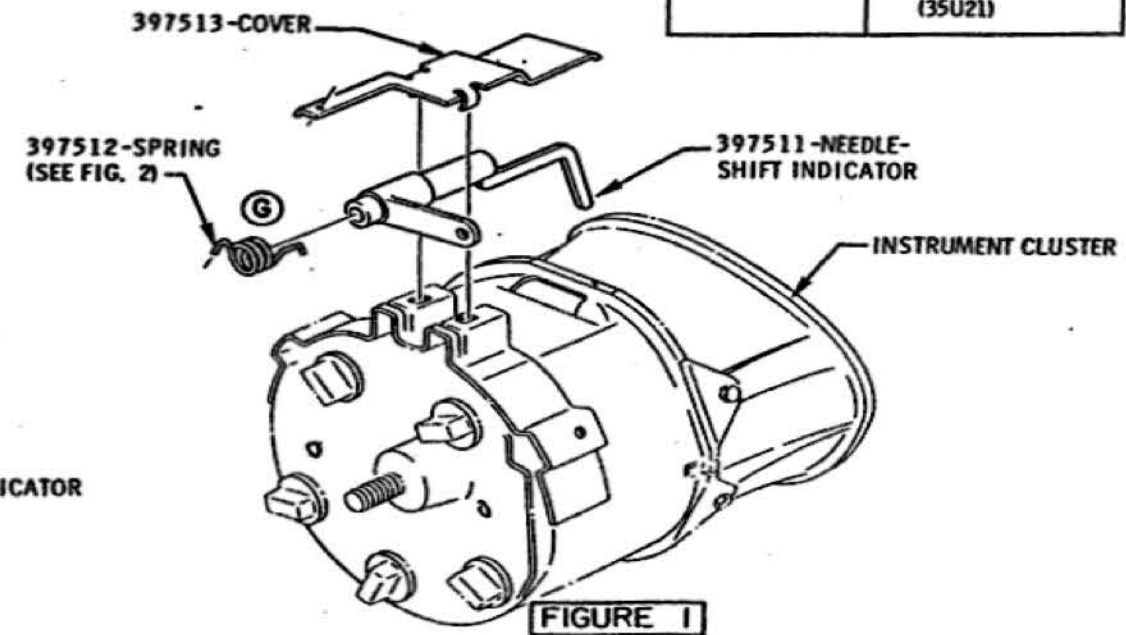


FIGURE 1
AUTOMATIC TRANSMISSION SHIFT INDICATOR INSTALLATION

⚠ MUST BE FULLY DRIVEN,
SEATED AND NOT STRIPPED.

CONTROL PANEL CLUSTERS AND COVERS											
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM
					7-10-67	E	TITLE REVISED	DR.	CK.		
					6-20-67	D	TORQUE NOTE ADDED	DR.	CK.		
					5-19-67	C	401326-CLIP ADDED	DR.	CK.		
		12-7-67	G		3-21-67	B	35C48 INFO REMOVED	DR.	CK.		
		9-22-67	F		3-16-67	A	FIGURES 1 & 2 ADDED	DR.	CK.		

TITLE	CONTROL PANEL CLUSTERS AND COVERS	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	1-3	PAGE	112
DATE	NOVEMBER 15, 1966	REF.	12J-12L 35C48 35U21	SERIES	A	PART NO.	398162	
DR. BY	ROE	CHECKED	E. S. ...					
APPR.								

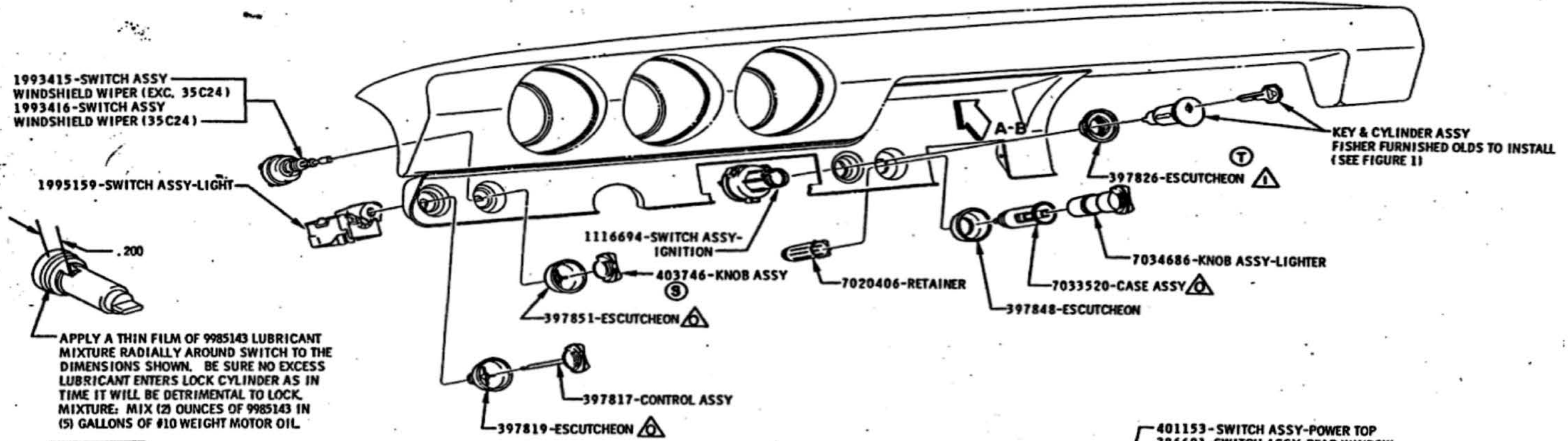
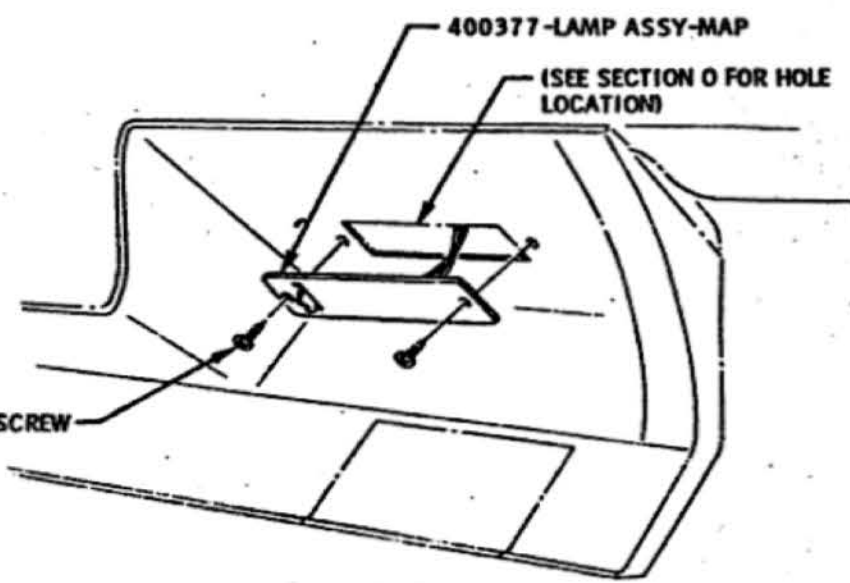


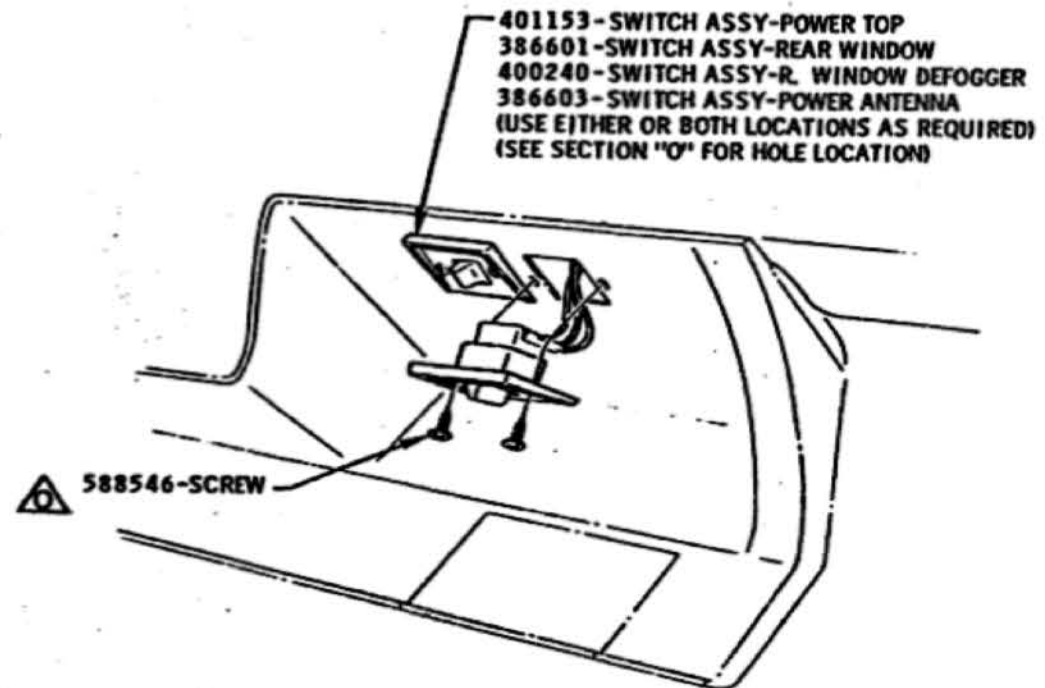
FIGURE 1

APPLY A THIN FILM OF 9985143 LUBRICANT MIXTURE RADIALLY AROUND SWITCH TO THE DIMENSIONS SHOWN. BE SURE NO EXCESS LUBRICANT ENTERS LOCK CYLINDER AS IN TIME IT WILL BE DETRIMENTAL TO LOCK. MIXTURE: MIX (2) OUNCES OF 9985143 IN (5) GALLONS OF #10 WEIGHT MOTOR OIL.



VIEW A

MAP LAMP INSTALLATION

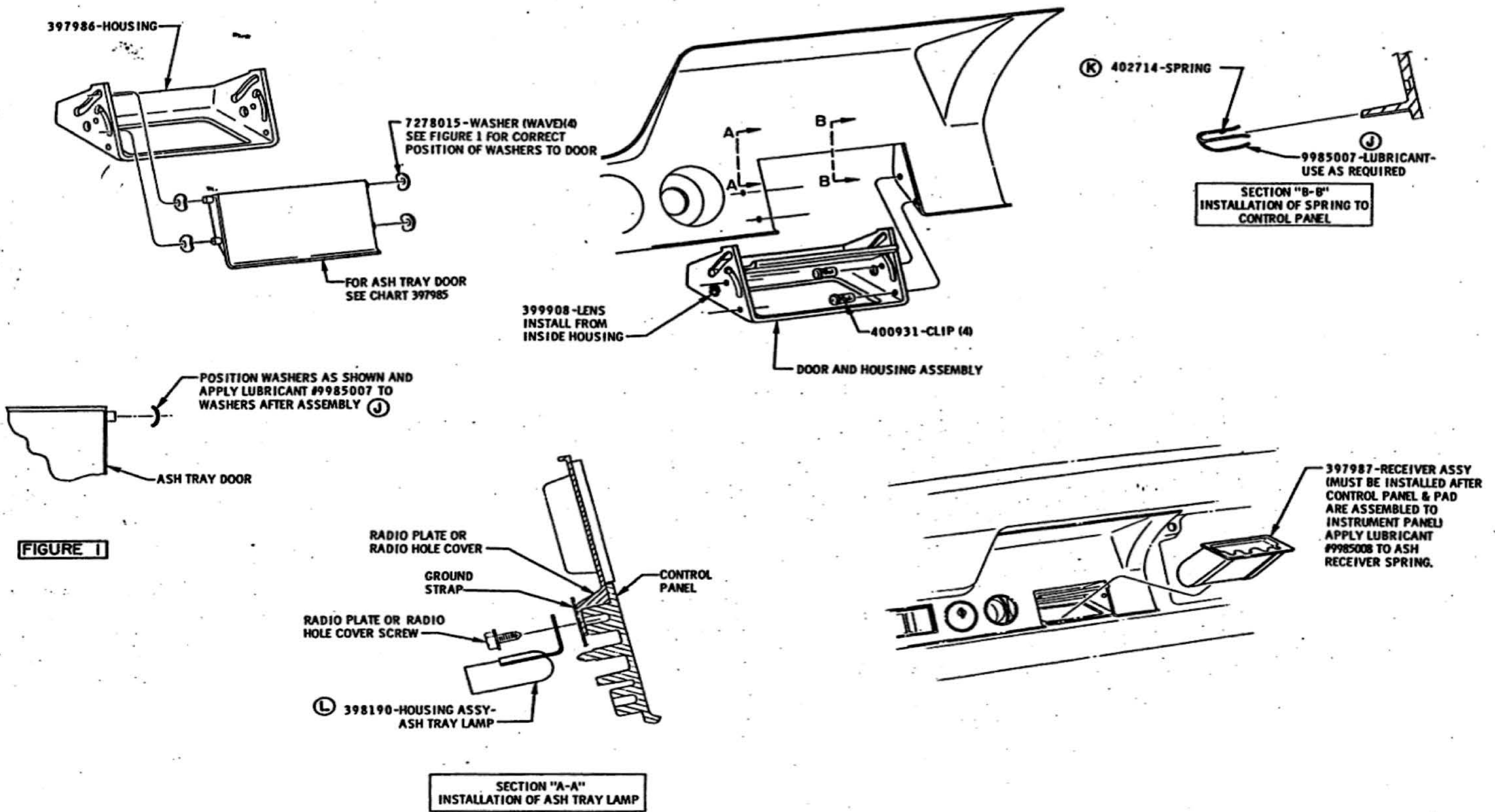


VIEW B

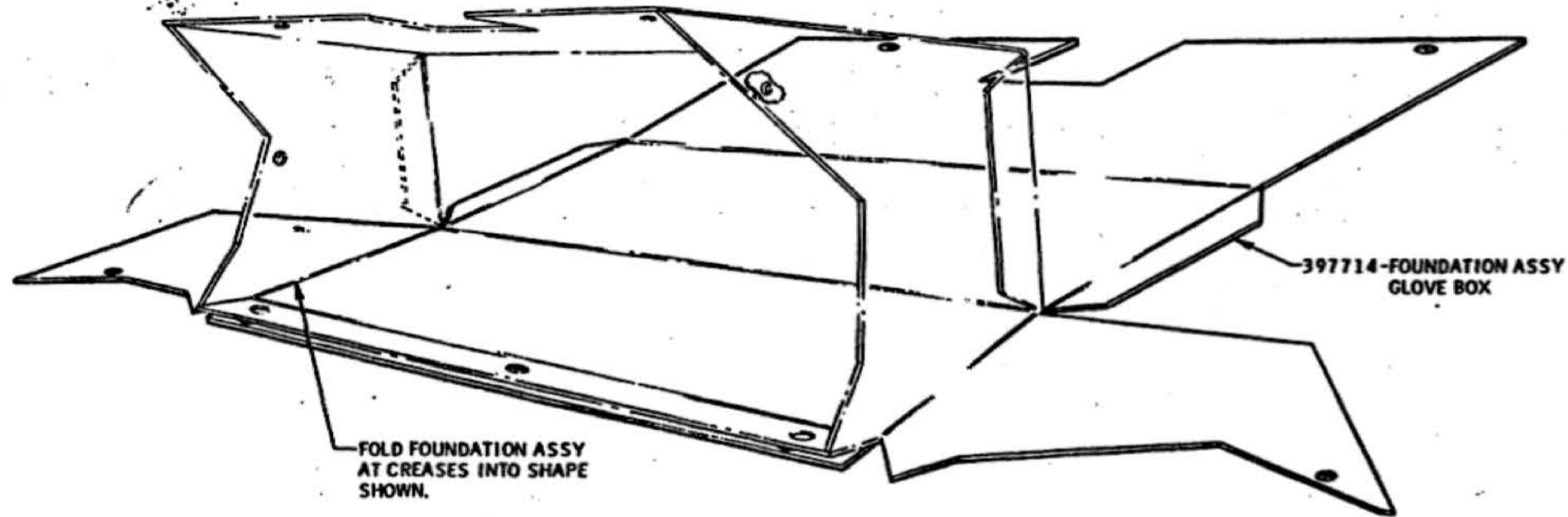
ACCESSORY SWITCH LOCATION

48-72 LB. IN.
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE										SWITCHES AND ESCUTCHEONS									
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
										5-2-68	T	TORQUE REVISED				NOVEMBER 16, 1966	1968	1-3	113
					4-17-68	S	WAS 400380 SCREW									DR. BY BOYER - R & E			
					3-8-68	R	WAS 9420129-SCREW									CHECKED BY Barnhart			
																REF. 12C, 12L, 7E, 11T, 7E, 12D			
																1A1 1A2D	2E, 7E		
																	SERIES	PART NO.	
																	A	398162	

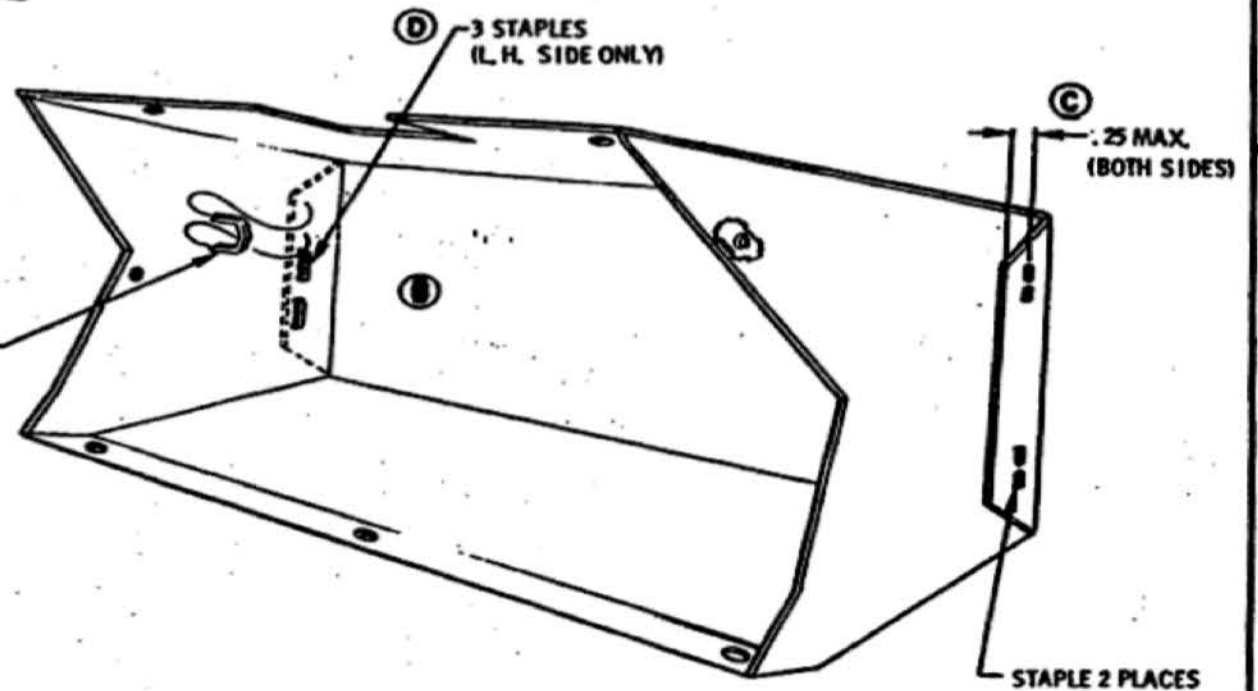


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					11-20-67	K	WAS 397988-SPRING	W	DT	7-26-67	E	WASHER POSITION REVEDED	W	DT							ASH TRAY	1968		1-3	114
					10-11-67	J ₂	WAS 9985008 LUBRICANT	PL	DT	6-20-67	D	FIGURE 1 ADDED	PL	DT							DATE NOVEMBER 16, 1966				
					8-25-67	H	LUBI. NOTE REMOVED	EJR	DT	9-27-67	C	WAS 397989 WASHER	EJR	DT							DR. BY ROE				
					8-18-67	G	9985007-LUBRICANT ADDED	PL	DT	3-28-67	B	WAS 9918062-RIVET	PL	DT							CHECKED M. Bonhart				
12-1-67	L	PART NO ADDED	PL	DT	7-31-67	F ₂	LUBE ADDED	PL	DT	1-13-67	A	399908-LENS ADDED	PL	DT							REF. 1A 2E 12 L 17 Y-2	SERIES A	PART NO. 398162		



FOLD FOUNDATION ASSY
AT CREASES INTO SHAPE
SHOWN.

FOLDING OF FOUNDATION ASSY



ASSEMBLING OF GLOVE BOX 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	PART NO.
													GLOVE BOX ASSEMBLY	1968		1-3	117	398162
				11-27-67	D	3RD STAPLE ADDED	B.P.P.						DATE NOV. 1, 1966					
				11-27-67	C	.25 DIMENSION ADDED	B.P.P.						DR. BY B. PARKER					
				6-16-67	B	397995-POCKET REMOVED	ER/DI						CHECKED J.P.M.					
				6-16-67	A	NUT RELOCATED	ER/DI						REF. 1A2B					
													SERIES A					

SWITCH TO ROTATE TO THIS POSITION AGAINST FLANGE ON I. P. WHEN NUT IS TIGHTENED

VIEW A

LOCK CYLINDER ASSEMBLY TO BE FISHER FURNISHED OLDS INSTALLED.

389850-SWITCH ASSY-TRUNK LID RELEASE
SEE SECTION "O" FOR DRILLING LAYOUT

588232-ESCUTCHEON
588233-NUT

TRUNK LID RELEASE SWITCH

3870209-SWITCH ASSY-GLOVE BOX LAMP
3859328-SWITCH ASSY-GLOVE BOX LAMP (OPT)

GLOVE BOX LAMP SWITCH

APPLIQUE CHART	
NUMBER	SERIES
398365	F-85
398366	CUTLASS
398367	CUTLASS SUPREME
398368	442
398369	VISTA CRUISER

PANEL-GLOVE BOX DOOR-SEE CHART 397716

9420183-NUT

400270-EMBLEM (3567, 77, 87 - 3667, 77, 87)
(DRILL TWO HOLES AT DIMPLES-SEE SECTION O FOR LOCATION)

R

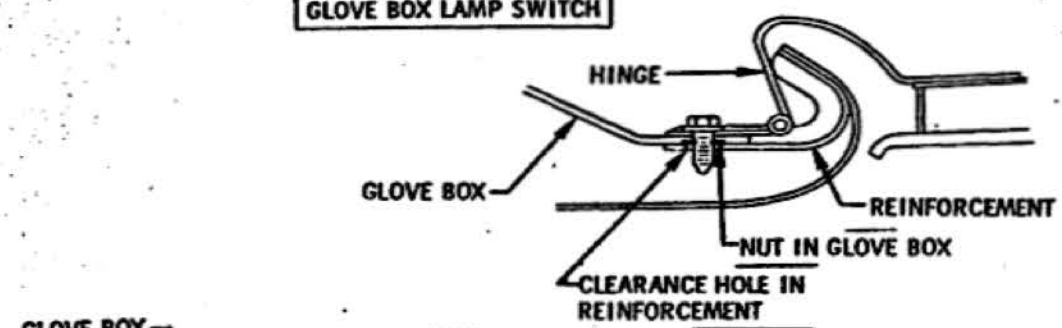
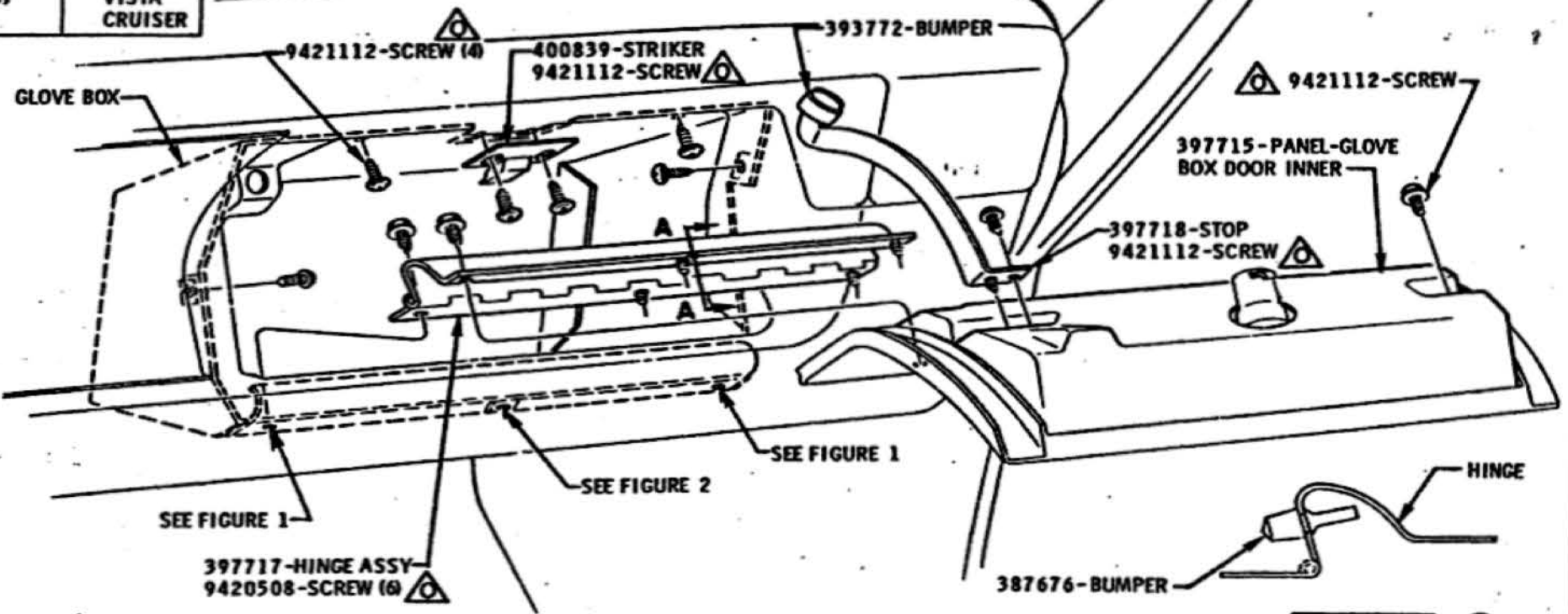


FIGURE 2

SECTION AT FASTENING

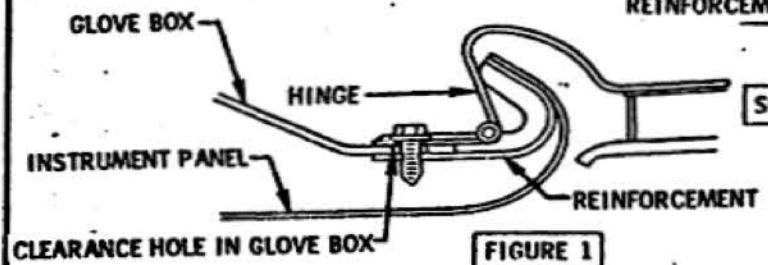
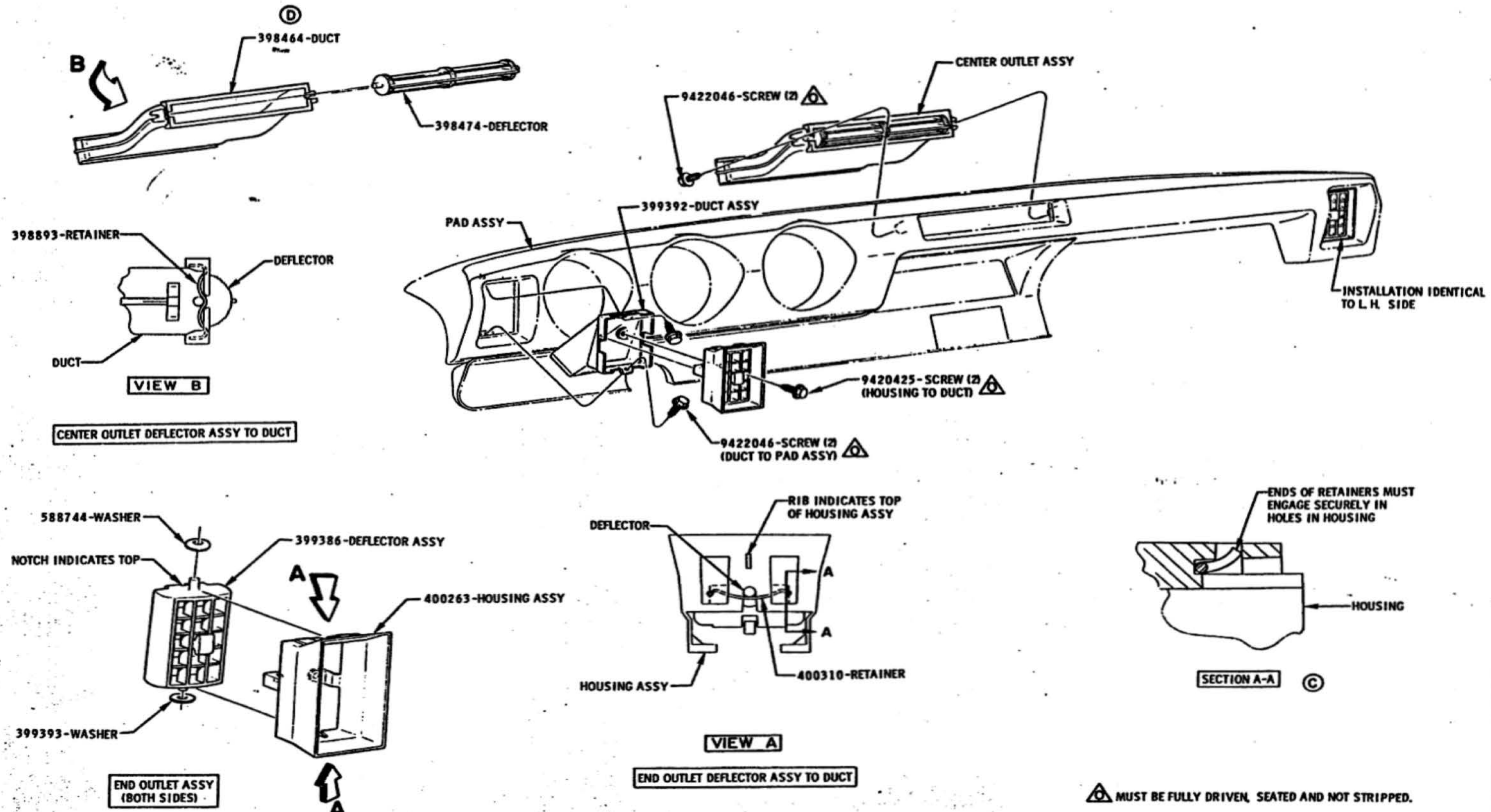


FIGURE 1

SECTION AT FASTENING

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE										GLOVE BOX, LAMP, AND SWITCHES									
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		1-3	118
																REF. 1A 2 B YLO	A91	SERIES	PART NO.
																		A	398162



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
					4-29-68	D	REVISED TO DETAIL	DR	PTS							AIR CONDITIONING OUTLETS	1968		1-3	210
					7-20-67	C	SECTION A-A ADDED	JR	MS							DATE DEC. 8, 1966				
					6-30-67	B	TORQUE NOTE ADDED	JR	DP							DR. BY ED J. ROE				
					5-12-67	A	REVISED & REDRAWN	JR	DP							CHECKED	REF. 35C60	SERIES A	PART NO. 398162	

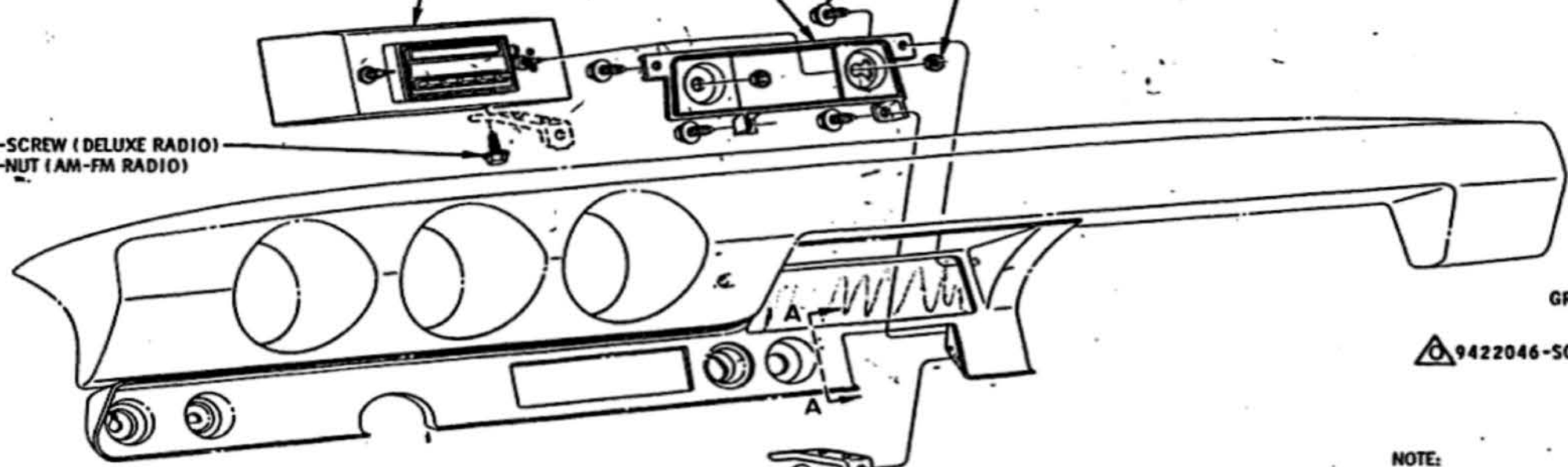
7302013-RECEIVER ASSY-DELUXE RADIO
7302023-RECEIVER ASSY-AM-FM RADIO

397578-PLATE

9422046-SCREW (4)
PLATE TO CONTROL PANEL

7279805-NUT

9422046-SCREW (DELUXE RADIO)
9419840-NUT (AM-FM RADIO)



GROUND STRAP

9422046-SCREW

PLATE

CONTROL PANEL

NOTE:
IF ASH TRAY LAMP IS TO
BE INSTALLED, SEE PAGE 114

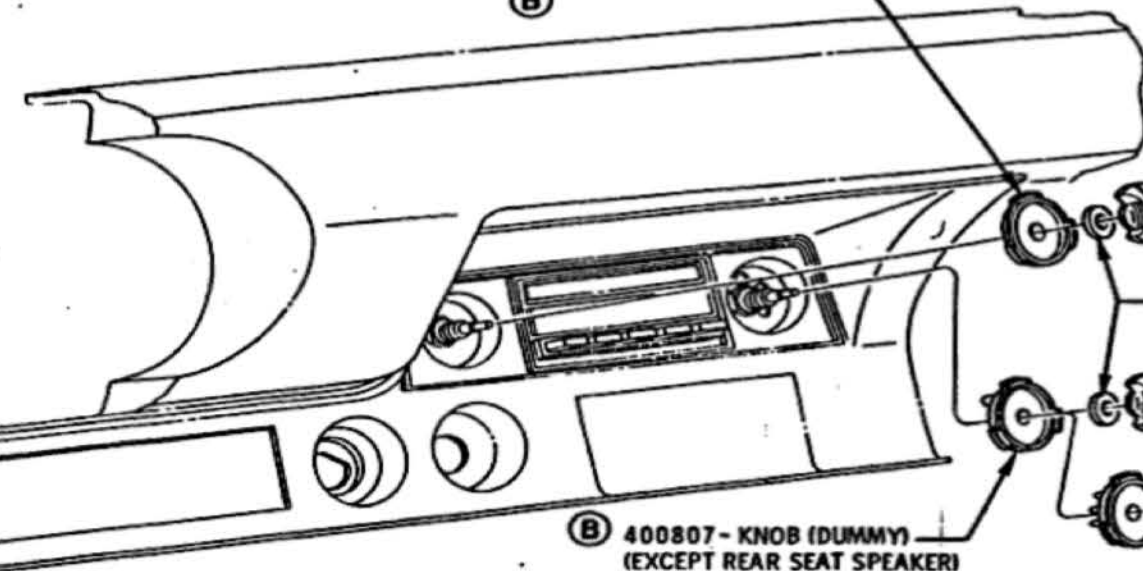
SECTION "A-A"

9422046-SCREW

397579-BRACKET

400806-KNOB-TONE CONTROL

(B)



397865-KNOB ASSEMBLY

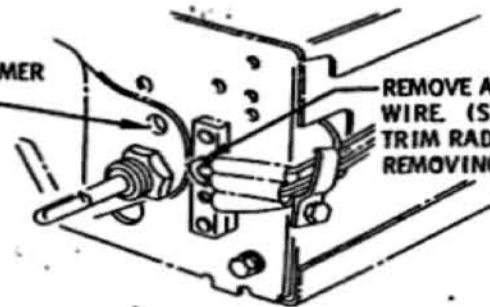
7242365-WASHER

397865-KNOB ASSEMBLY

400807-KNOB (DUMMY)
(EXCEPT REAR SEAT SPEAKER)

7306013-CONTROL ASSY-FADER
(REAR SEAT SPEAKER)
SEE FIGURE 1

ANTENNA TRIMMER
SCREW



REMOVE AND DISCARD SHUNT
WIRE. (SHAPED LIKE A STAPLE)
TRIM RADIO BEFORE
REMOVING SHUNT WIRE.

FIGURE 1

CAUTION: DO NOT TURN
ON RADIO UNLESS SHUNT
WIRE OR SPEAKER FADER
CONTROL IS INSTALLED.

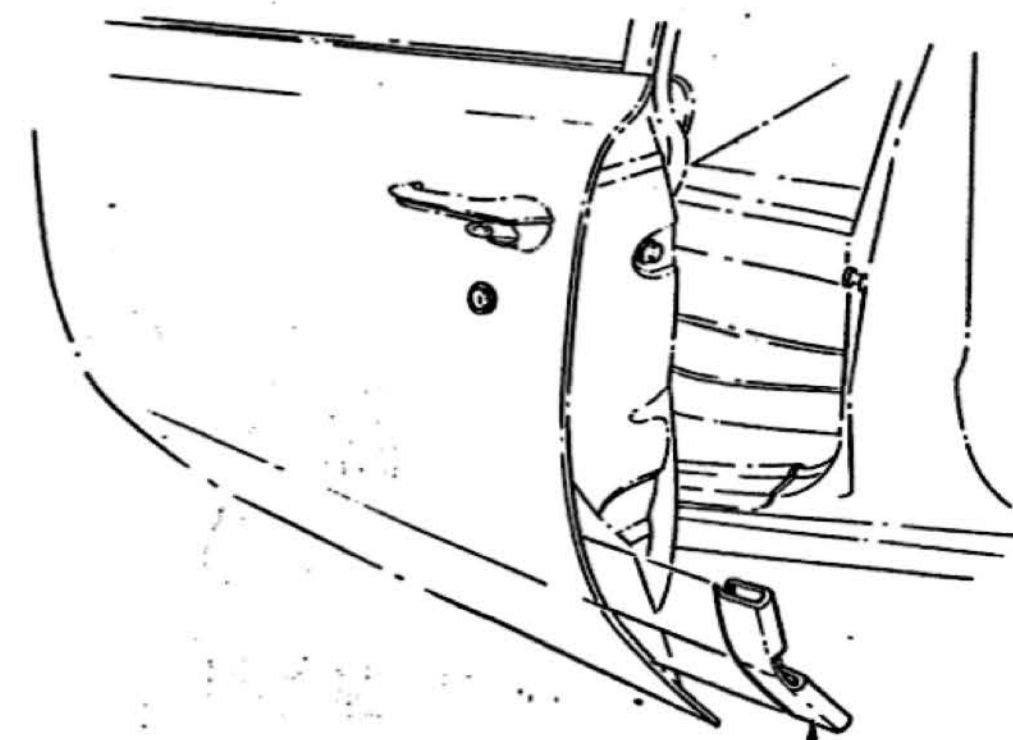
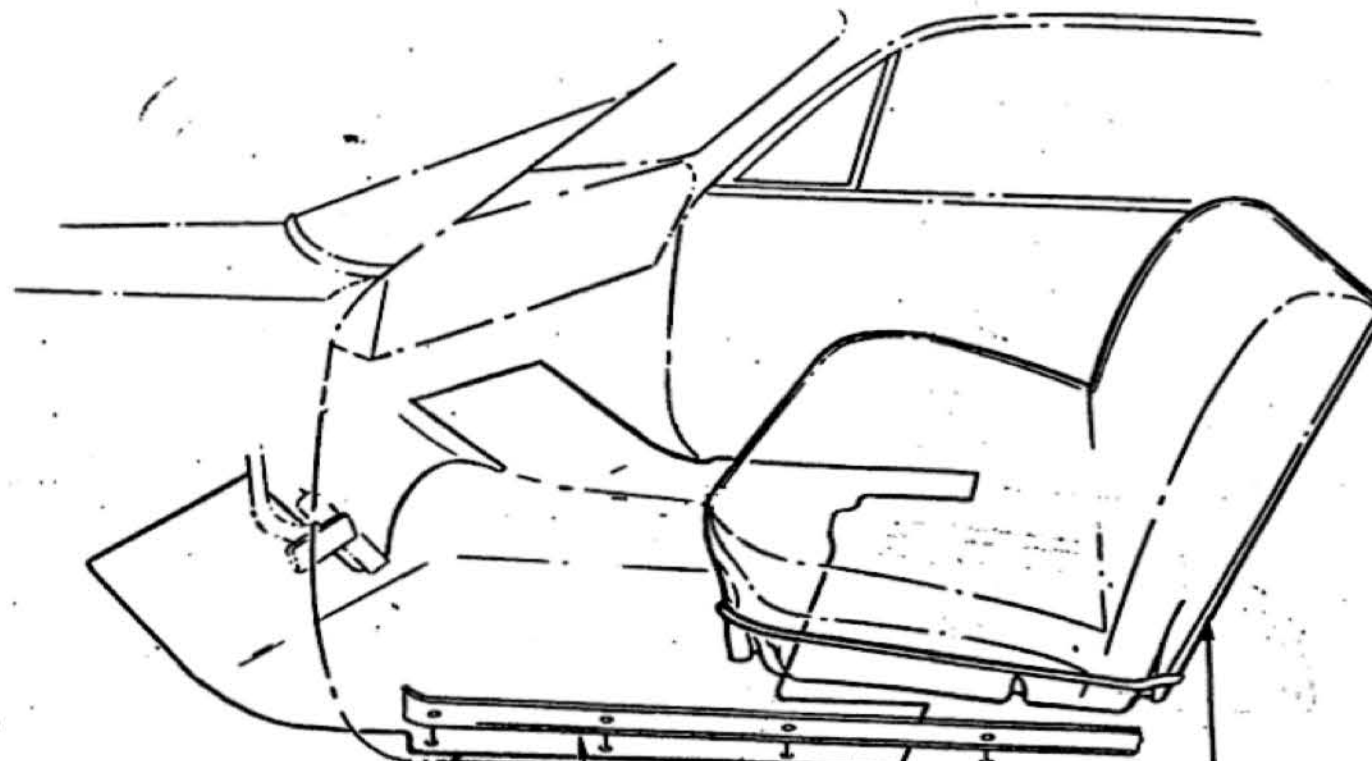
ANTENNA TRIMMING INSTRUCTIONS

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.

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	D	TORQUES ADDED	PL	DT	NOVEMBER 16, 1968						RADIO	1968		1-3	320
					5-2-67	C	WAS 7278015-WASHER	DR.	BY	ROE-BOYER										
					4-21-67	B1	1ST TYPE CANCELLED	DR.	DT	CHECKED	M. Barnhart									
					3-21-67	A3	2ND TYPE ADDED	DR.	DT	APPR.	E. Lander									
																	REF. 35063 35069 35080	SERIES A	PART NO. 398162	



▲ PLACE COVER UNDER SILL PLATE AND TIGHTEN SCREWS

SILL PLATE

ⓐ 403581-PROTECTOR-F. CARPET
APPLY PROTECTOR WITH PAPER SIDE UP

394454-COVER
4461443-ELASTIC BAND - AS REQ'D.
(CARS WITH CLOTH OR PARCHMENT VINYL TRIM)
ASSEMBLY PLANT USE:
563260-COVER
(CARS WITH CLOTH OR PARCHMENT VINYL TRIM)

9785740-PROTECTOR-FRONT DOOR-L. H.

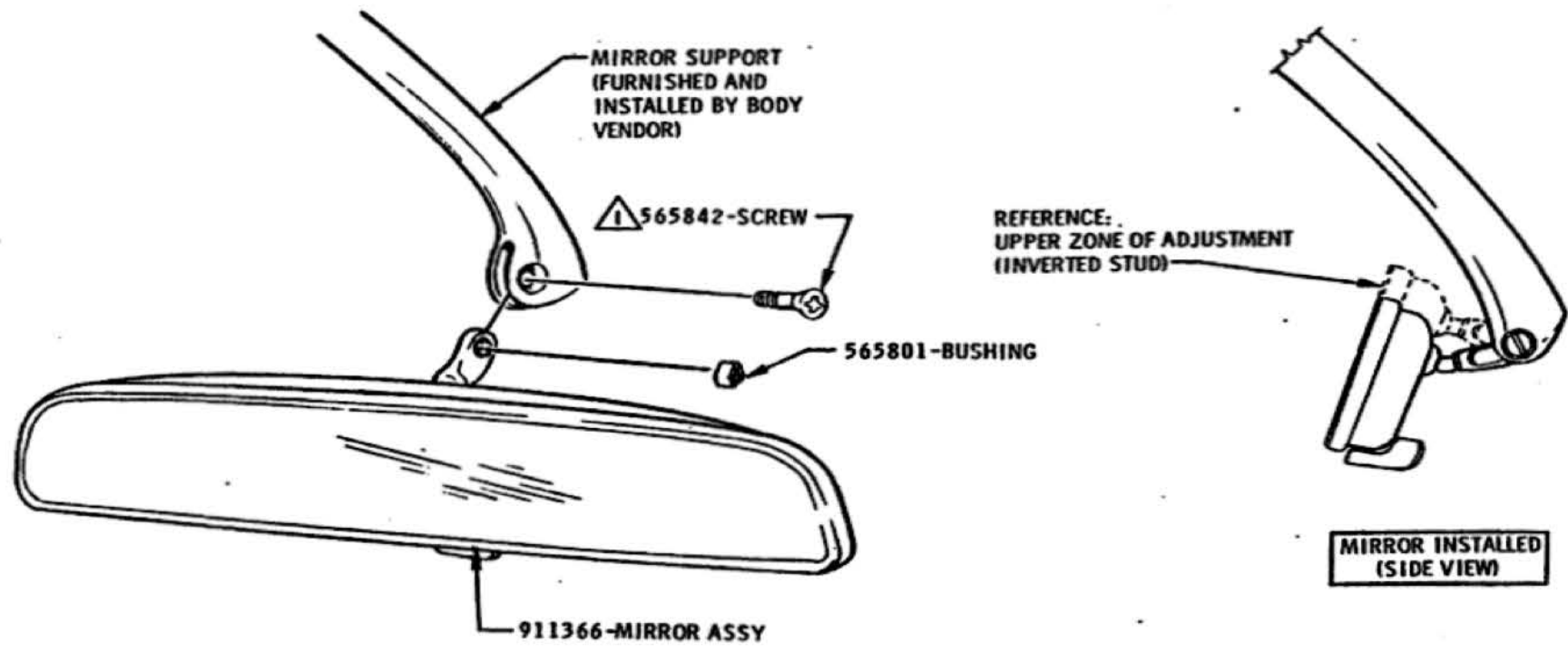
ⓑ

ⓓ NOTE:
ON CARS WITH CONSOLE PLACE PROTECTOR OVER CONSOLE.

ON MANUAL SHIFT CONSOLE CUT PROTECTOR AS NECESSARY TO ALLOW FREE MOVEMENT OF SHIFTING LEVER.

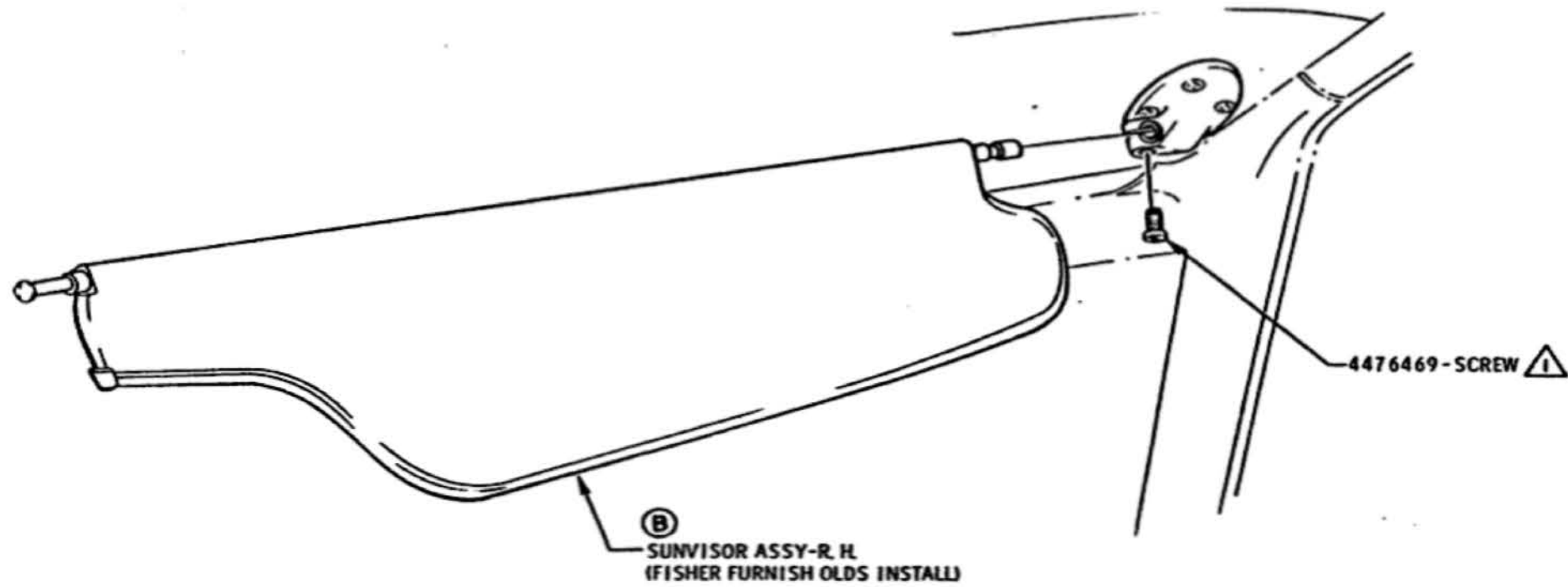
▲ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

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
					1-10-68	E	587924-25-EXTENSION ADDED	BP	DT							FRONT FLOOR, SEAT, AND DOOR EDGE PROTECTOR				
					11-30-67	D	SEATCOVER USAGE REVISED	BP	DT							DATE FEB. 4, 1967	1968		1-4	110
					8-29-68	H	NOTE REVISED	BP	DT	9-28-67	C	TORQUE NOTE ADDED	PL	DT		DR. BY B. PARKER				
					8-29-68	G	WAS 585922-24-25-COVERS	BP	DT	3-3-67	B	563260-COVER ADDED	PL	DT		CHECKED JTM				
					1-10-68	F	585922-COVER USF6E REY	BP	DT	2-28-67	A	NOTE REVISED	BP	DT		APPR.	REF. 14G	SERIES A-B-C	PART NO. 398162-3	



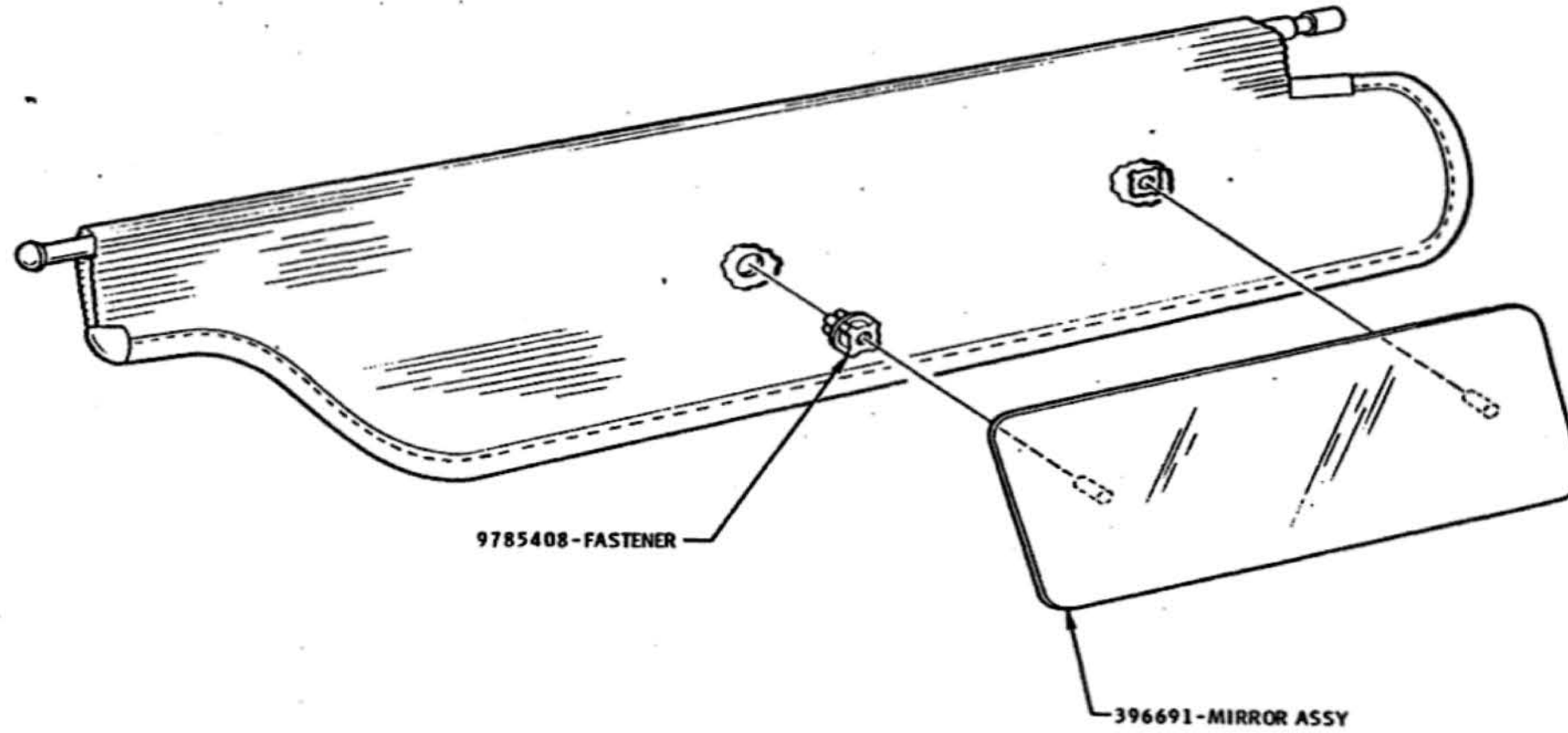
△ 40 - 50 LB. IN.

										TITLE				
										INSIDE REAR VIEW MIRROR				
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
										JAN. 13, 1967	1968	INFORMATION MANUAL	1-4	115
										DR. BY B. PARKER				
										CHECKED <i>Alca</i>	REF. 1AEE	SERIES A B-C E	PART NO. 398162-3-4	
										6-23-67 A TORQUE ADDED	APPR.			
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.		



△ 15 - 20 LB. IN.

										TITLE		R. H. SUNVISOR							
										DATE	JAN. 13, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	1-4	PAGE	116	
										DR. BY	B. PARKER	CHECKED	J. G. H.	REF.	1AEE	SERIES	A B-C E	PART NO.	398162-3-4
										7-6-67	B	NOTE REVISED	DR. CK.						
										6-23-67	A	TORQUE ADDED	DR. CK.						
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM		



9785408 - FASTENER

396691 - MIRROR ASSY

										TITLE					
										VISOR VANITY MIRROR					
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE	
										DEC. 22, 1966	1968	INFORMATION MANUAL	1-4	117	
										DR. BY B. PARKER					
										CHECKED J. J. J.					
										APPR. T. GILVIN	REF. 35Y60	SERIES	PART		
												ABCE	398162-3-4		
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

LOCK CYLINDER ASSEMBLY
TO BE FISHER FURNISHED
OLDS INSTALLED.

389850-SWITCH ASSY-
TRUNK LID RELEASE

588232-ESCUTCHEON
588233-NUT

TRUNK LID RELEASE SWITCH

3870209-SWITCH ASSY-
GLOVE BOX LAMP
3859328-SWITCH ASSY-
GLOVE BOX LAMP (OPT)

GLOVE BOX LAMP SWITCH

APPLIQUE CHART	
NUMBER	SERIES
398365	F-85
398366	CUTLASS
398367	CUTLASS SUPREME
398368	442
398369	VISTA CRUISER

PANEL-GLOVE BOX DOOR-
SEE CHART 397716

9420183-NUT

400270-EMBLEM
(3567, 77, 87 -
3667, 77, 87)

GLOVE BOX

9421112-SCREW (4)

400839-STRIKER
9421112-SCREW

393772-BUMPER

9421112-SCREW (H P)
397715-PANEL-GLOVE
BOX DOOR INNER (M)

397718-STOP
9421112-SCREW

HINGE

GLOVE BOX

REINFORCEMENT

NUT IN GLOVE BOX

CLEARANCE HOLE IN
REINFORCEMENT

FIGURE 2

SECTION AT FASTENING

GLOVE BOX

HINGE

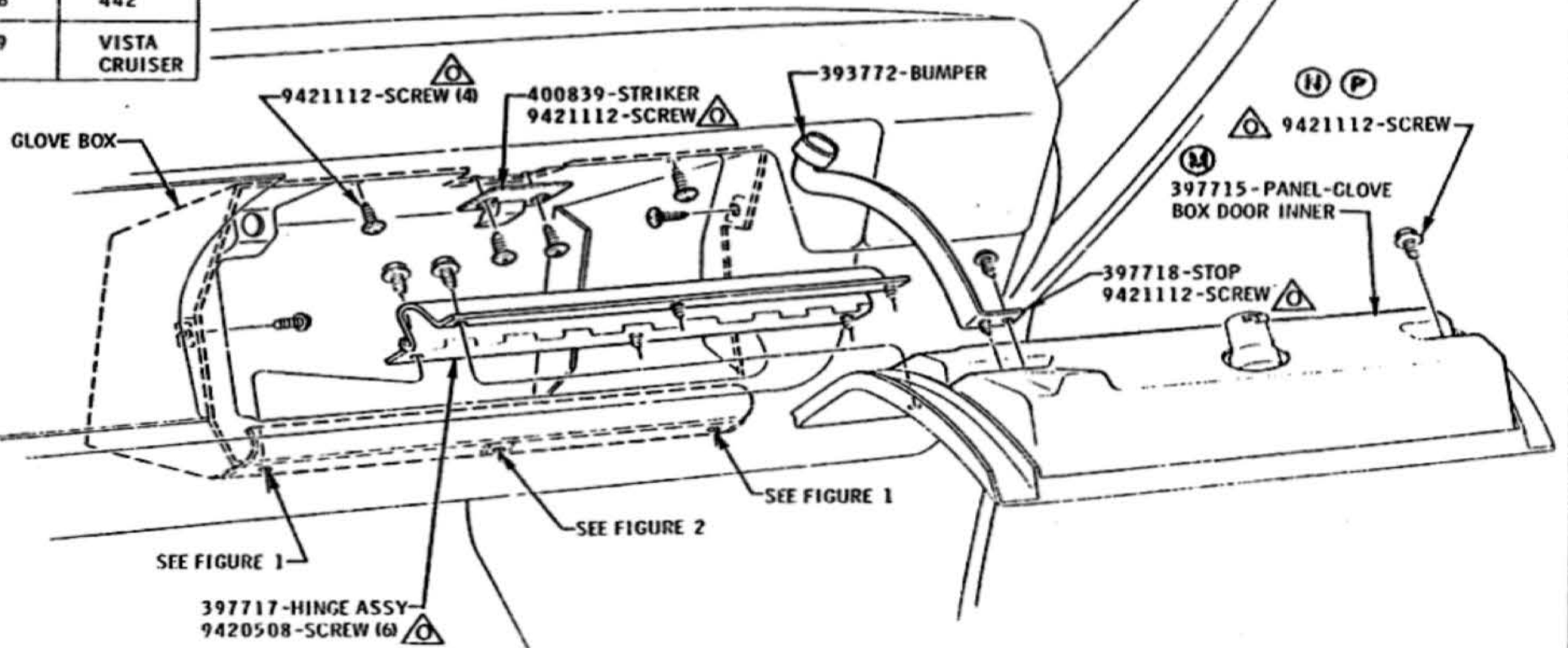
REINFORCEMENT

FIGURE 1

SECTION AT FASTENING

INSTRUMENT PANEL

CLEARANCE HOLE IN GLOVE BOX



SEE FIGURE 1

SEE FIGURE 2

397717-HINGE ASSY
9420508-SCREW (6)

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYL	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
12-7-67	P	WAS 9419663			7-5-67	K	NOTE REVISED	Dr		5-5-67	E	WAS 9421112-SCREW	Dr					GLOVE BOX, LAMP, AND SWITCHES	1968		1-3	118	
9-30-67	N	9419663-PANEL ADDED			5-27-67	J	TORQUE NOTE ADDED	Dr		7-20-67	D	WAS 397733 STRIKER	Dr						DEC. 8, 1966				
9-30-67	M	397715-PANEL ADDED			6-18-67	G	GLOVE BOX REVISED TO DET.	Dr		7-20-67	B	WAS 745872-CYLINDER ASSY	Dr						ED J ROE				
9-22-67	L	WAS 7652253 KNOB ASSY			5-5-67	F	VIEW REVISED TO DETAIL	Dr		5-31-67	A	WAS 397716-LATCH ASSY	Dr							REF. 1A28 760	A91	A	398162

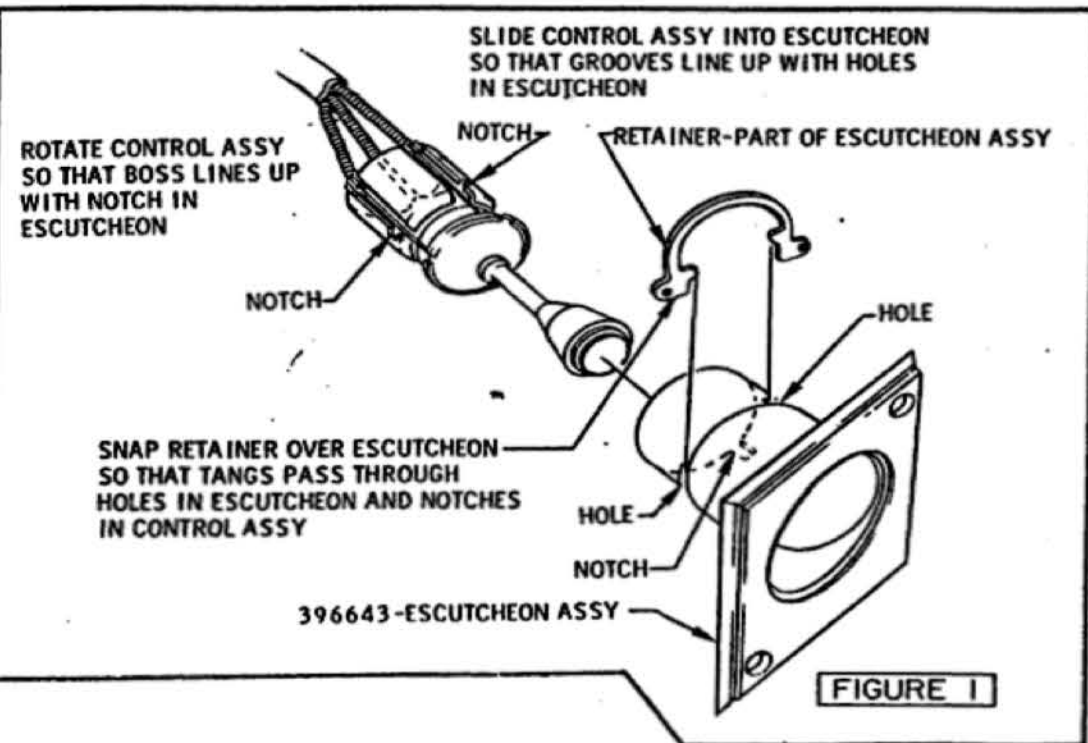


FIGURE 1

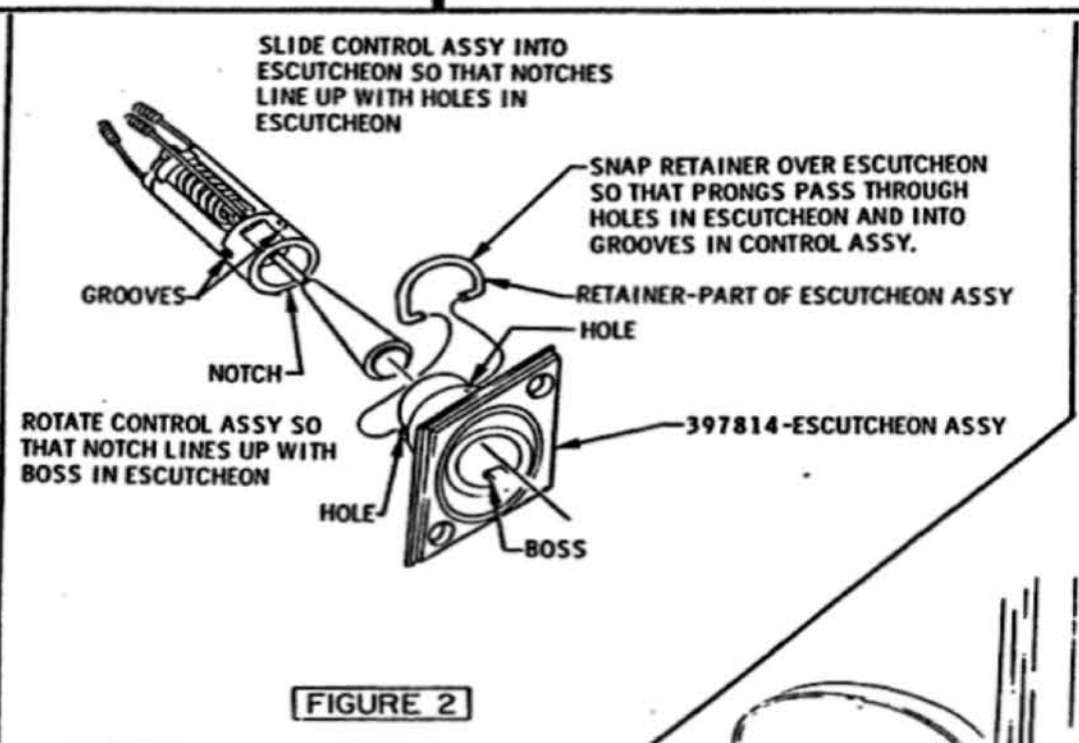
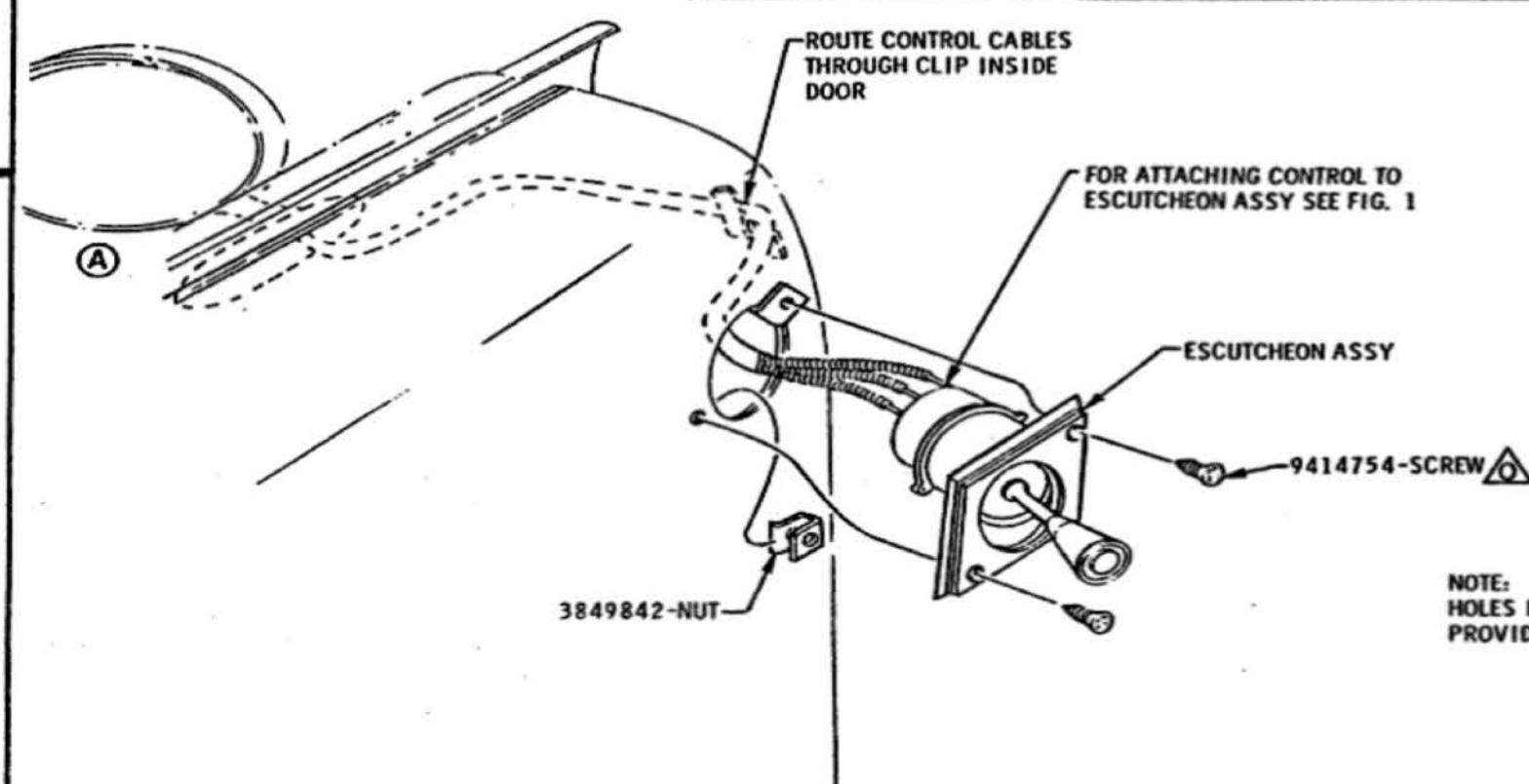
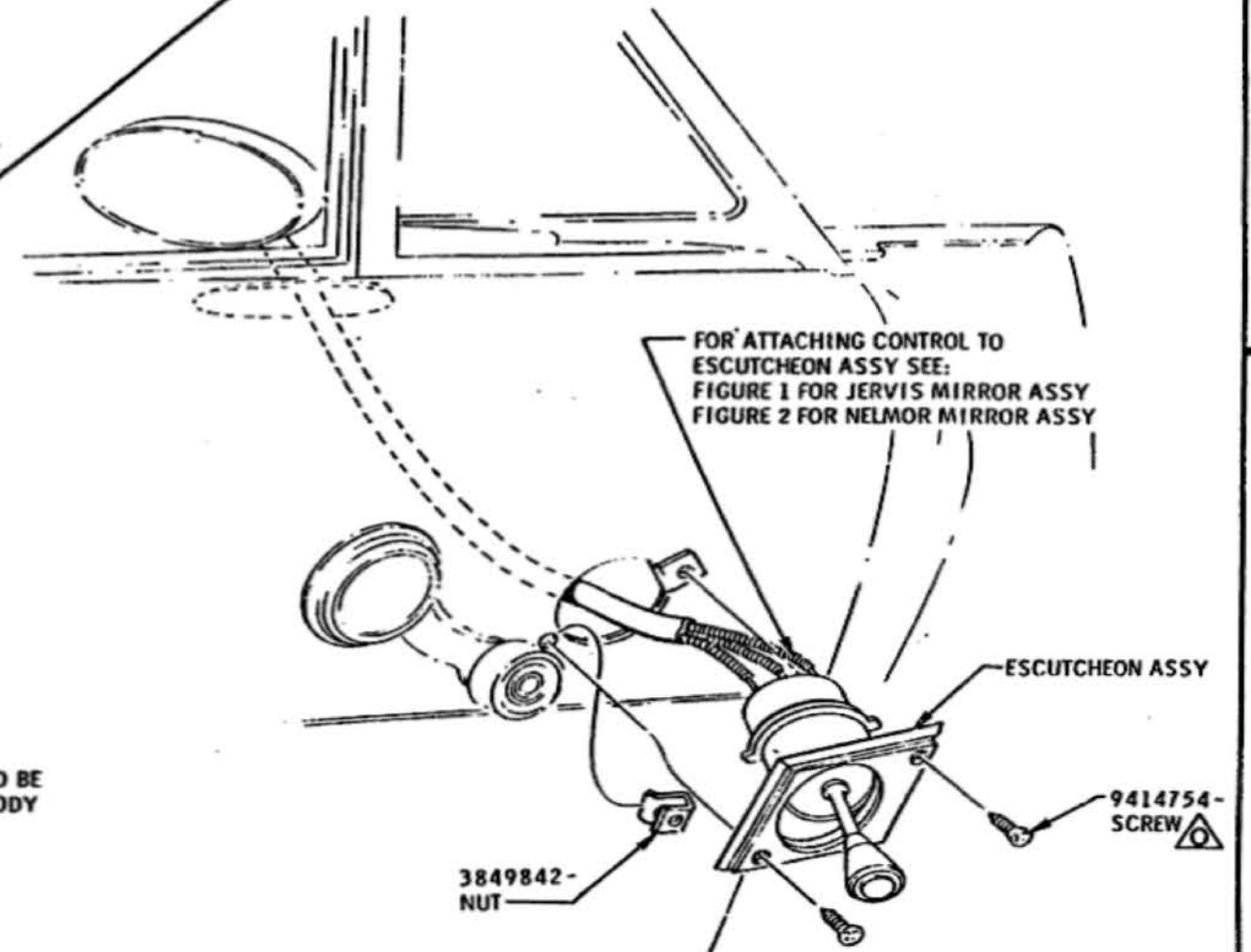


FIGURE 2

⚠️ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.



INSTALLATION ON "E" SERIES DOOR TRIM PANEL



INSTALLATION ON "A" SERIES & "B-C" SERIES DOOR TRIM PANEL

NOTE: HOLES IN TRIM PANEL TO BE PROVIDED BY FISHER BODY

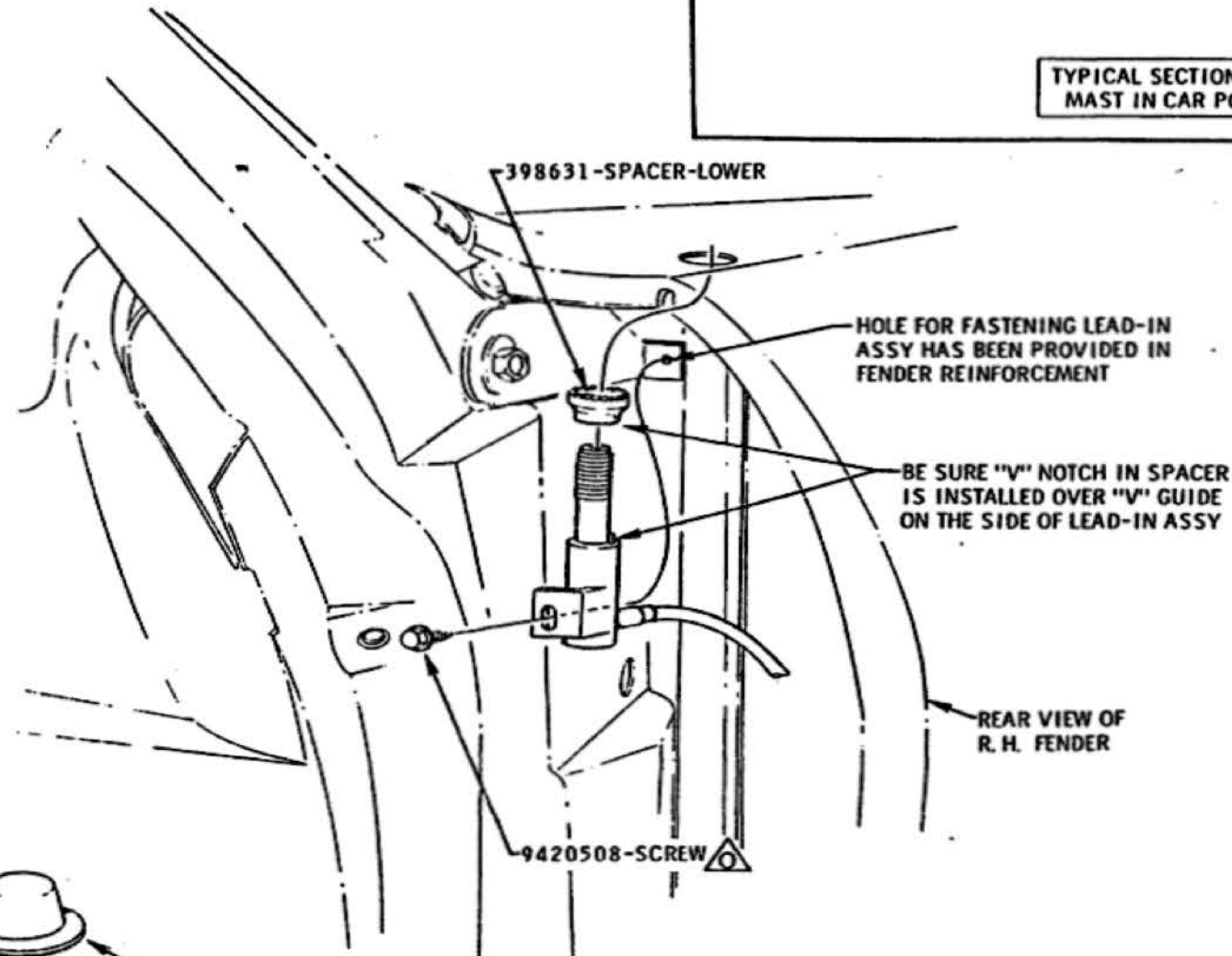
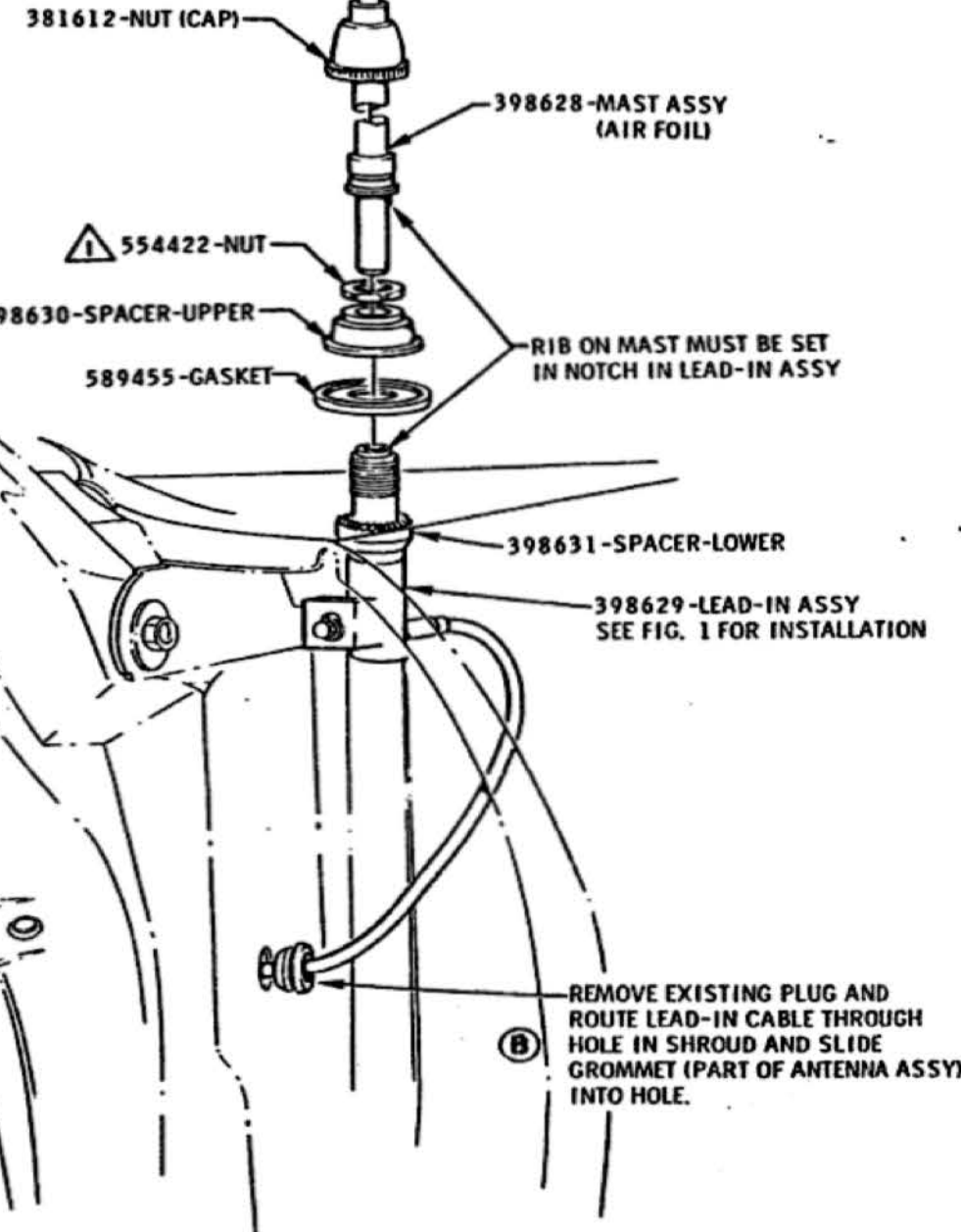
TITLE										REMOTE CONTROL MIRROR (INSIDE)										
DATE FEB. 23, 1967										FIRST USED	1968									
DR. BY B. PARKER										OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 1-4	PAGE 122								
CHECKED J. L.										REF. 35033	SERIES A-B-C-E	PART NO. 398162-3-4								
APPR. DT																				
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

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 NUT



TYPICAL SECTION THROUGH
MAST IN CAR POSITION

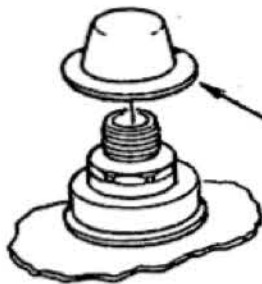
NOTE:
ADJUST ANTENNA TRIMMER
SCREW PER RADIO INSTRUCTIONS



REAR VIEW OF
R. H. FENDER

FIGURE 1

PLACE 389467-CAP OVER
ANTENNA LEAD-IN ON CARS
WITHOUT ANTENNA MAST.
(FOR BODY WATER TESTING
AND SHIPPING PURPOSES)



CAP INSTALLATION

- (A) \triangle 72 - 96 LB. IN.
- (B) \triangle MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	L.F.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																MANUAL ANTENNA	1968		1-4	320
					1-10-68	B	NOTE REVISED													
					10-1-67	A	TORQUES ADDED													
																	35063		A	398162

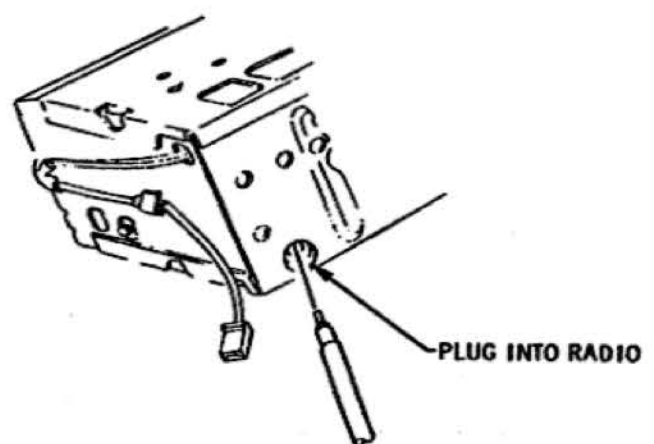
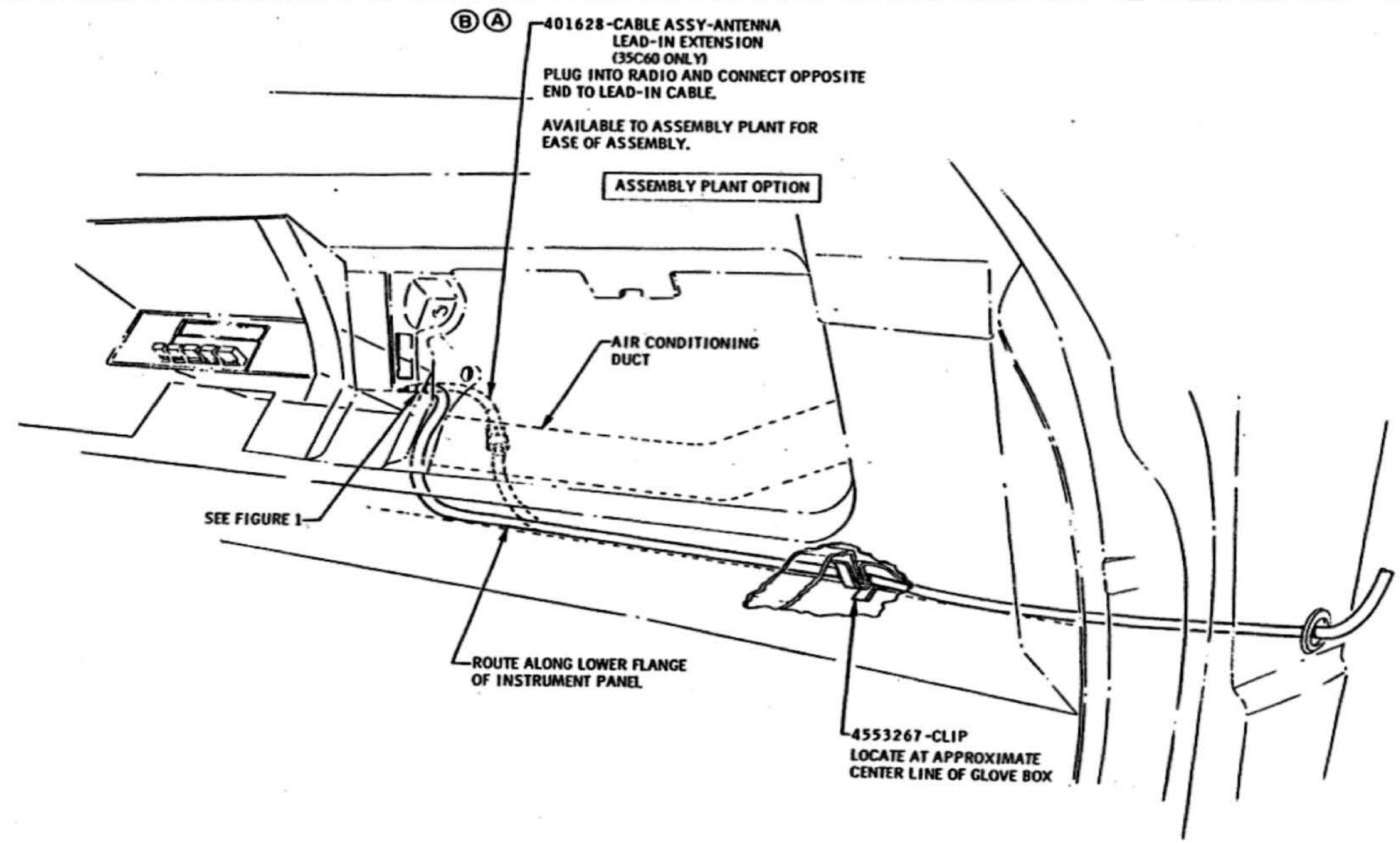


FIGURE 1

LEAD- IN CABLE CONNECTION
TO RADIO

										TITLE		MANUAL ANTENNA LEAD-IN ROUTING (INSIDE CAR)				
										DATE	APR. 13, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE
										DR. BY	B. PARKER	CHECKED	JDM	INFORMATION MANUAL	1-4	321
										9-22-63 B	OPTIONAL USE ADDED	APR 67				
										8-1-67 A	401628-CABLE LEAD-IN ADDED	APR 67				
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	REF.	SERIES	PART NO.	
													35063	A	398162	

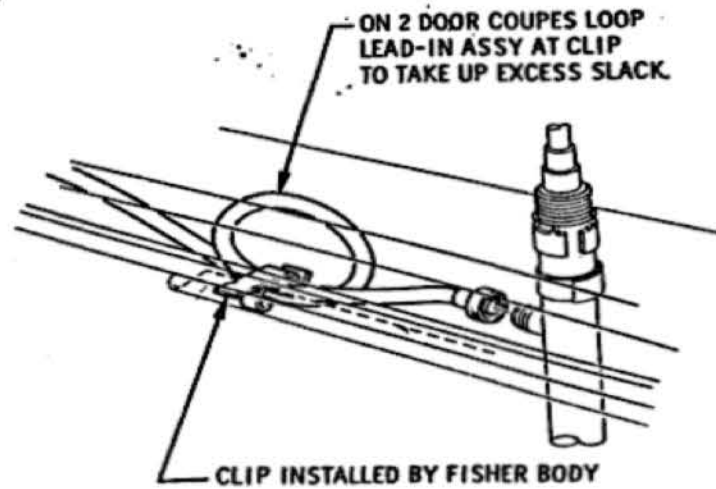
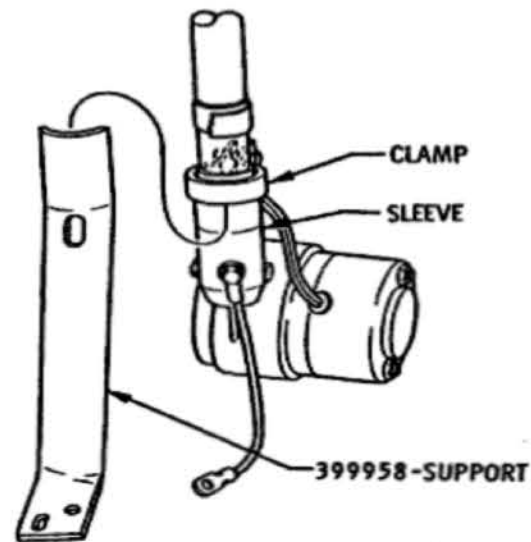
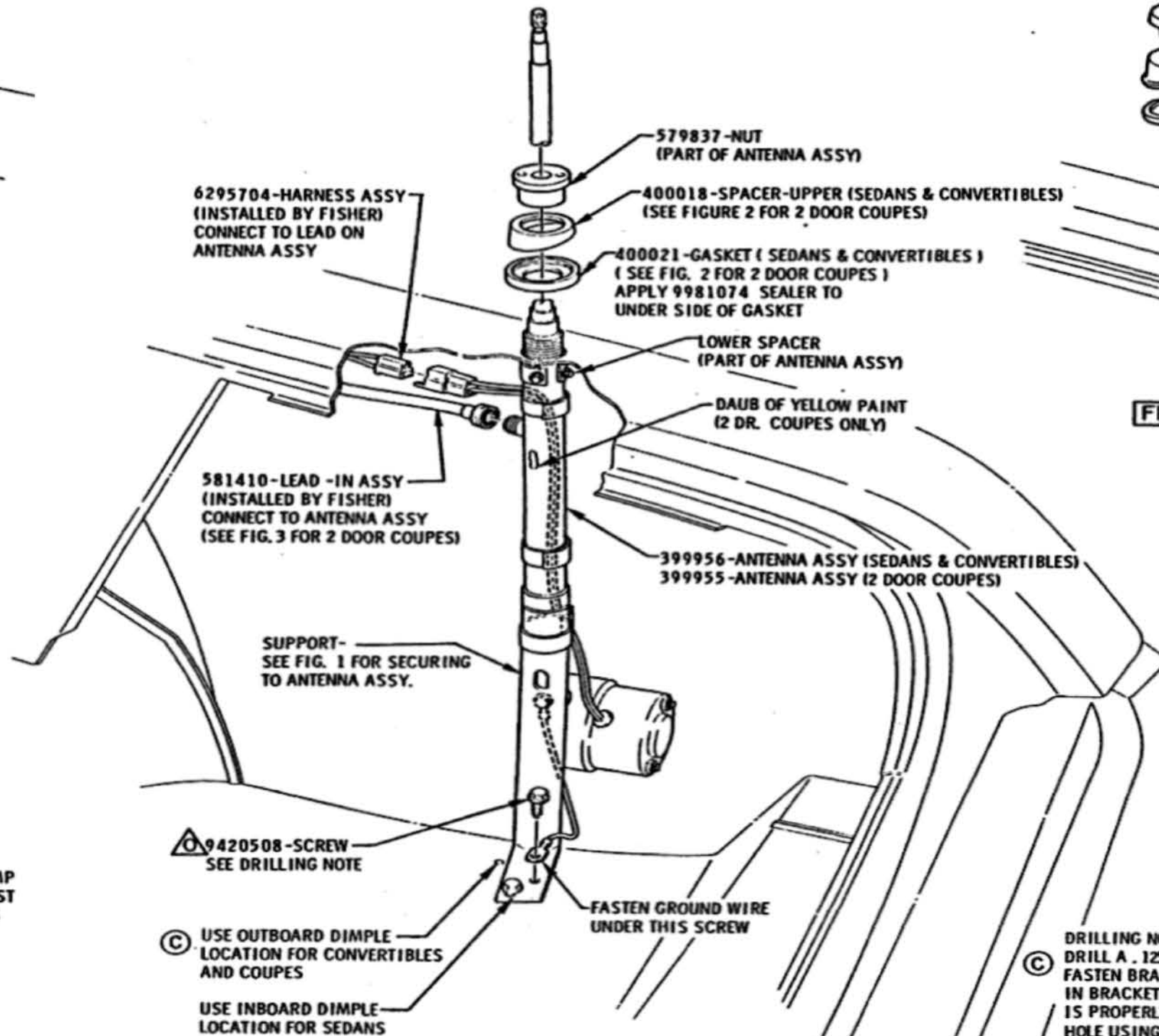


FIGURE 3



INSERT UPPER END OF SUPPORT BETWEEN LOOSENED CLAMP AND SLEEVE. SET ANTENNA ASSY IN POSITION AND ADJUST ANTENNA HEIGHT SO THAT LOWER SPACER ON ANTENNA IS AGAINST METAL SURFACE OF QUARTER PANEL. TIGHTEN CLAMP.

FIGURE 1



6295704-HARNES ASSY (INSTALLED BY FISHER) CONNECT TO LEAD ON ANTENNA ASSY

581410-LEAD-IN ASSY (INSTALLED BY FISHER) CONNECT TO ANTENNA ASSY (SEE FIG. 3 FOR 2 DOOR COUPES)

SUPPORT- SEE FIG. 1 FOR SECURING TO ANTENNA ASSY.

9420508-SCREW SEE DRILLING NOTE

USE OUTBOARD DIMPLE LOCATION FOR CONVERTIBLES AND COUPES

USE INBOARD DIMPLE LOCATION FOR SEDANS

579837-NUT (PART OF ANTENNA ASSY)

400018-SPACER-UPPER (SEDANS & CONVERTIBLES) (SEE FIGURE 2 FOR 2 DOOR COUPES)

400021-GASKET (SEDANS & CONVERTIBLES) (SEE FIG. 2 FOR 2 DOOR COUPES) APPLY 9981074 SEALER TO UNDER SIDE OF GASKET

LOWER SPACER (PART OF ANTENNA ASSY)

DAUB OF YELLOW PAINT (2 DR. COUPES ONLY)

399956-ANTENNA ASSY (SEDANS & CONVERTIBLES)
399955-ANTENNA ASSY (2 DOOR COUPES)

FASTEN GROUND WIRE UNDER THIS SCREW

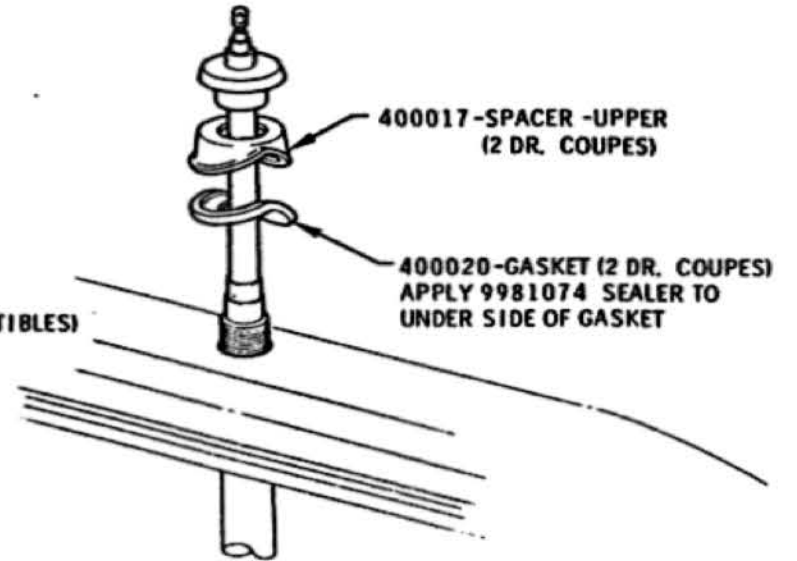
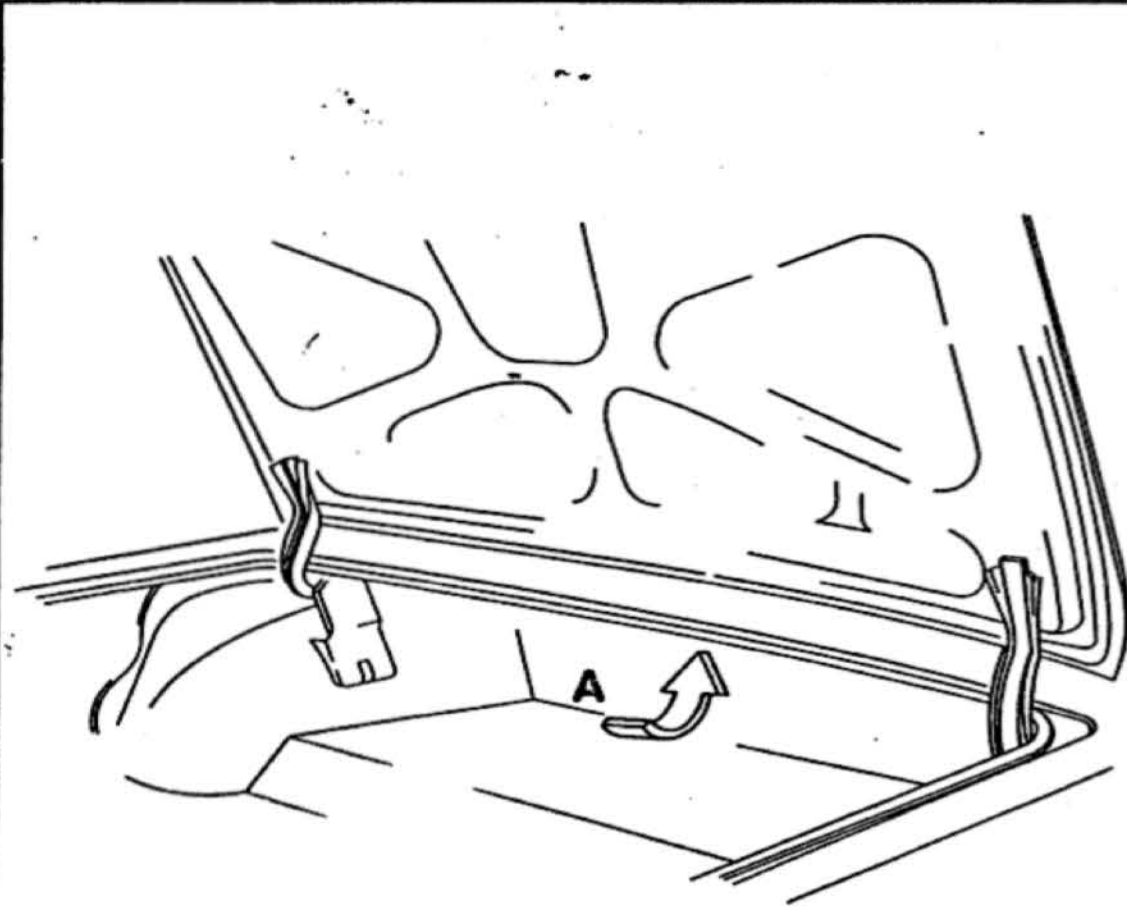


FIGURE 2

DRILLING NOTE:
DRILL A .125 DIA. HOLE THROUGH CORRECT DIMPLE. FASTEN BRACKET IN PLACE LOCATING SLOTTED HOLE IN BRACKET OVER DIMPLE MAKING SURE ANTENNA IS PROPERLY ALIGNED, THEN DRILL REMAINING SCREW HOLE USING THE BRACKET AS A TEMPLATE.

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
				9-27-67	E	TORQUE ADDED			PL	DT							ELECTRIC ANTENNA (EXC. STATION WAGON)	1968		1-4	325
				8-10-67	D	REDRAWN - NO CHANGE			BP	DT											
				6-30-67	G	DRILLING-INSTNS REVISED			BP	DT											
				6-20-67	B	WAS 9422207-SCREW			BP	DT											
				5-10-67	A2	SEALER NOTE ADDED			ST	DT											
																		35075		A	398162



SPEAKER LOCATION

PUSH "T" BOLT UP THROUGH EXISTING HOLE IN THE BOTTOM OF THE PACKAGE SHELF, AGAINST THE SPRING RETAINER, AND SLIDE BOLT INTO THE SQUARE PORTION OF THE HOLE WHERE IT WILL RETAIN ITSELF.

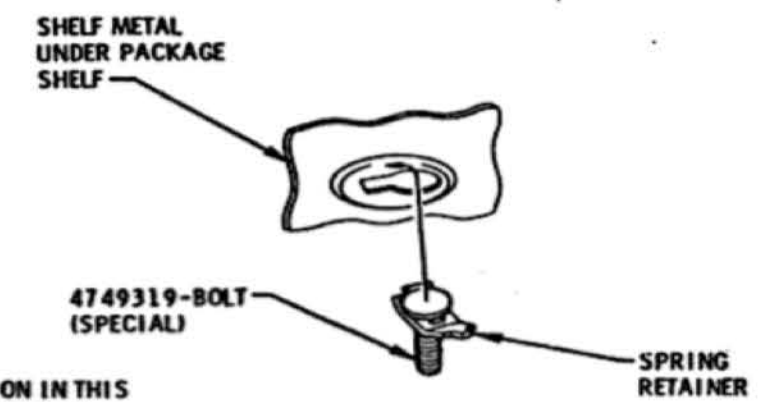
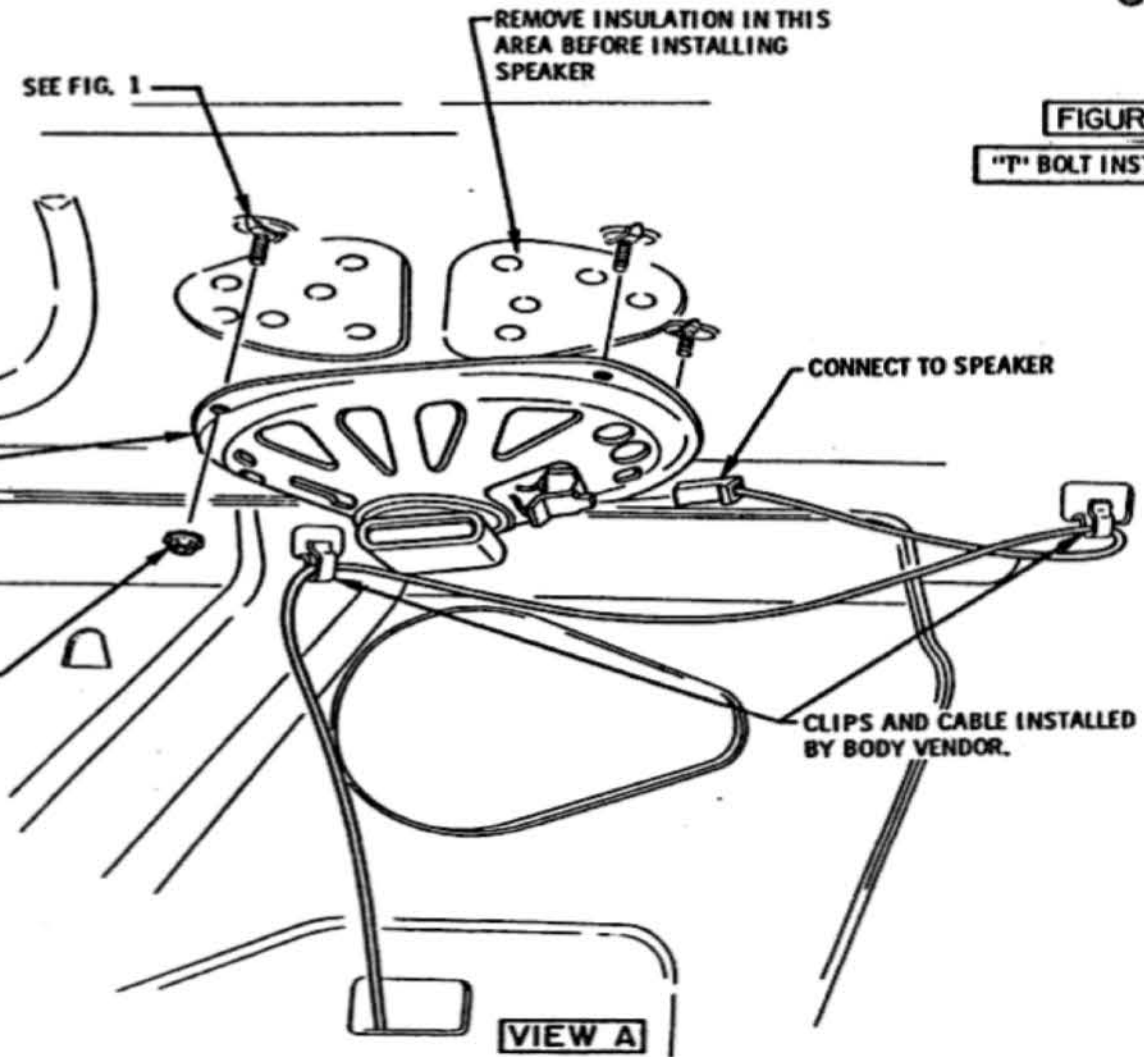


FIGURE 1
"T" BOLT INSTALLATION

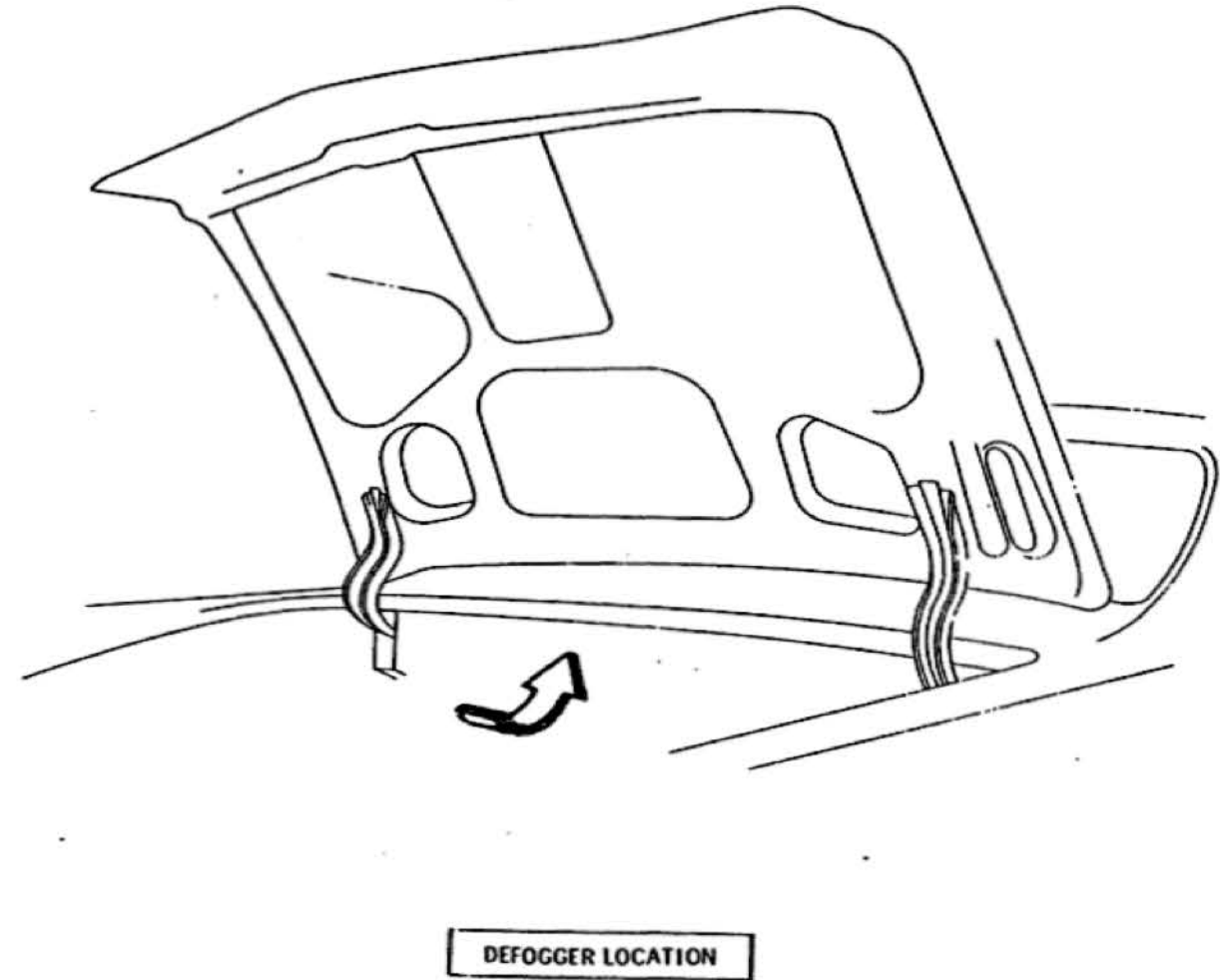
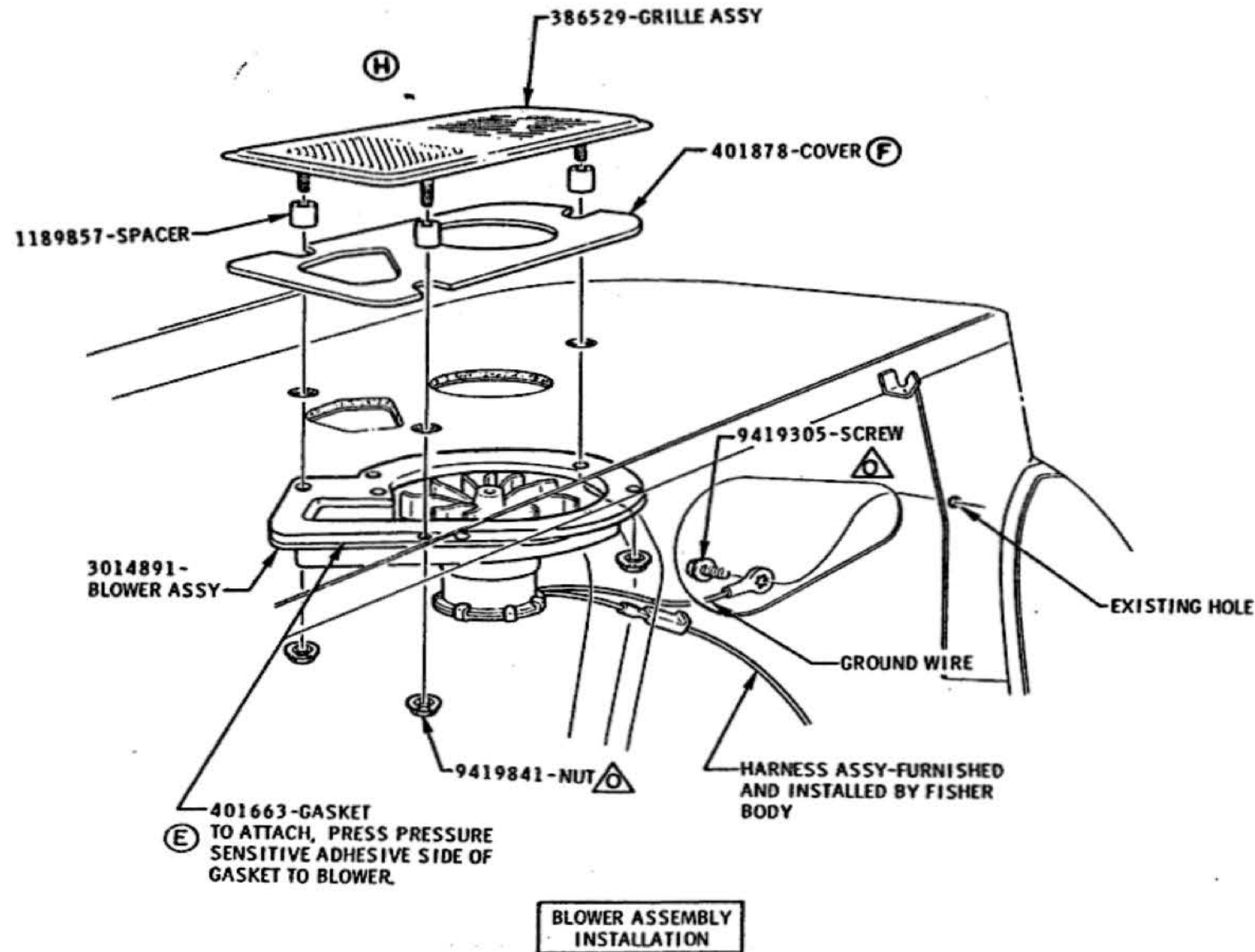



7300614-SPEAKER ASSY
396548-SPEAKER ASSY- OPT.

VIEW A
SPEAKER INSTALLATION

⚠ 7-11 LB. IN. Ⓐ

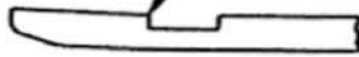
										TITLE		REAR SEAT SPEAKER (EXCEPT STATION WAGON)							
										DATE	MAR. 2, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	1-4	PAGE	330	
										DR. BY	B. PARKER	CHECKED	J. M.	REF.	35080	SERIES	A	PART NO.	398162
										APPR.		APPR.							
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	
						0254 A				TORQUE ADDED	PZ	DT							



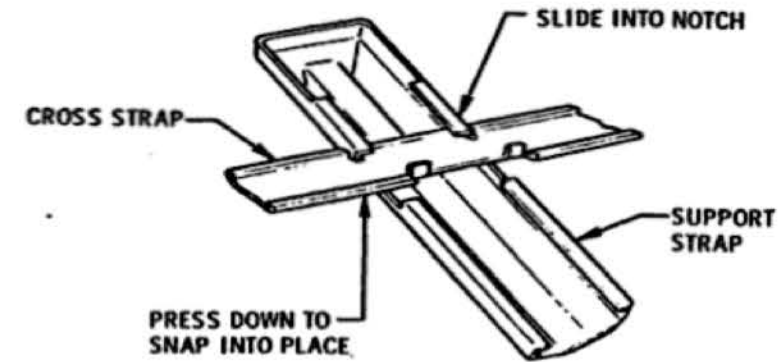
 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

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
					8-11-67	E	401663-GASKET ADDED	SP	DT							REAR WINDOW DEFOGGER				
					5-25-67	D	DRILLING DIMS REMOVED	BP	DT							DATE NOV. 3, 1966	1968		1-4	345
		2-15-68	H		4-19-67	C	WAS 3003268 BLOWER	SP	DT							DR. BY B. PARKER				
		9-27-67	G		2-24-67	B	GR. WIRE RELOCATED	SP	DT							CHECKED J. H. ...				
		9-31-67	F		2-8-67	A	WAS 6290574 HARNESS	SP	DT							APPR. J. E. ...	REF. 55C50	SERIES A	PART NO. 398162	

SUPPORT STRAPS HAVE DIFFERENT NOTCH PLACEMENT FOR FRONT & REAR. NOTCH AT REAR OF STRAP IS APPROXIMATELY 1" FROM END OF STRAP.



SUPPORT STRAP
ALIGN NOTCH IN INSULATOR WITH CROSS STRAP



TYPICAL CROSS STRAP TO SUPPORT STRAP INSTALLATION

SET SCREW—USE TO DRAW CROSS STRAP DOWN TIGHT AGAINST ROOF

CROSS STRAP

BEFORE PLACING ON ROOF, PRESS INSULATOR INTO PLACE STARTING AT EACH END AND WORKING TOWARDS THE MIDDLE.

SUPPORT



CROSS RAIL

INSULATOR

SCREW

SUPPORT STRAP

SECTION A-A

SIDE RAIL

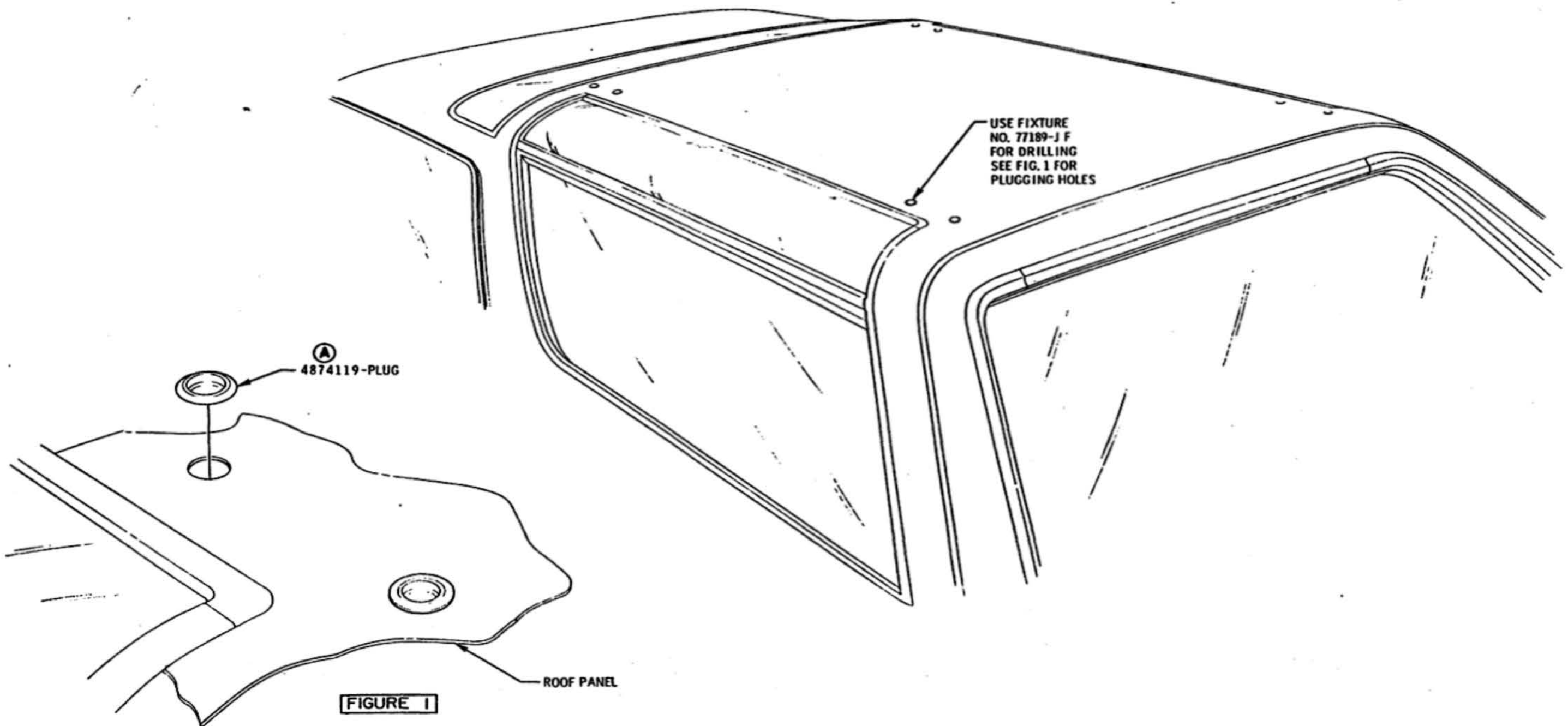
TYPICAL SUPPORT INSTALLATION

(L.H. REAR SHOWN)

ALL PARTS ARE PART OF 982890 CARRIER PACKAGE

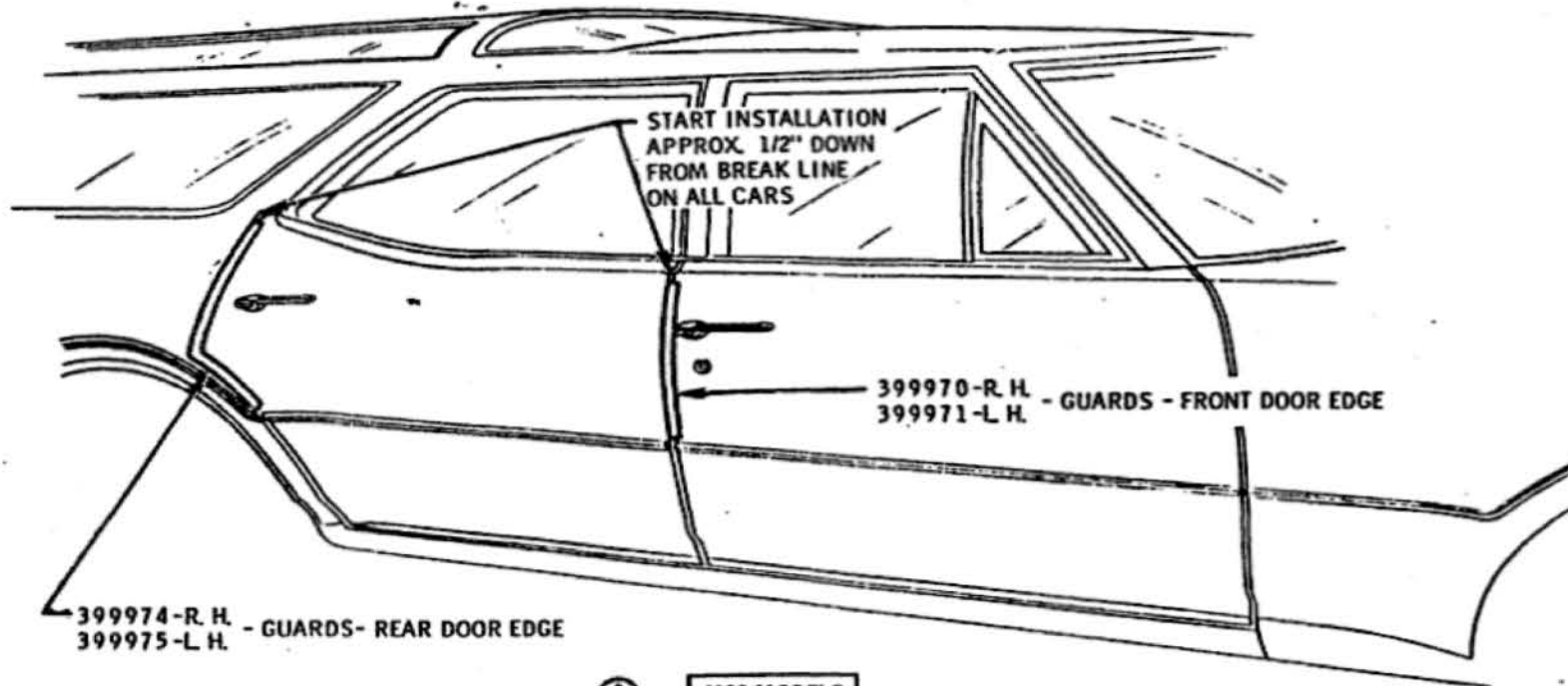
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE										LUGGAGE CARRIER-STATION WAGON (EXC. 4800)									
DATE					AUG. 16, 1967					FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE	
DR. BY					C. GARRELL					REF.		30 V 55		SERIES		A		PART NO.	
9-27-67					B TORQUE ADDED					PL		DT		CHECKED		J. T. ...		380	
9-25-67					A REVISED					DR.		CK.		APPR.		V. ...		398162	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	SERIES	PART NO.	MANUAL SECTION	PAGE

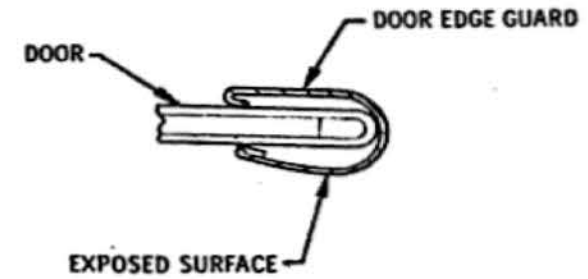


(DRILL & PLUG ONLY)

TITLE														LUGGAGE CARRIER (4800 MODELS ONLY)												
DATE <i>AUG. 16, 1967</i>														FIRST USED	1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		1-4		PAGE		382	
DR. BY <i>D.C. CARROLL</i>														CHECKED	<i>[Signature]</i>		SERIES		A		PART NO.		398162			
10-10-67 A PART NO. ADD'D - PLUG REV'D & DT														REF. 35455												
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	APPR.	APPR.								

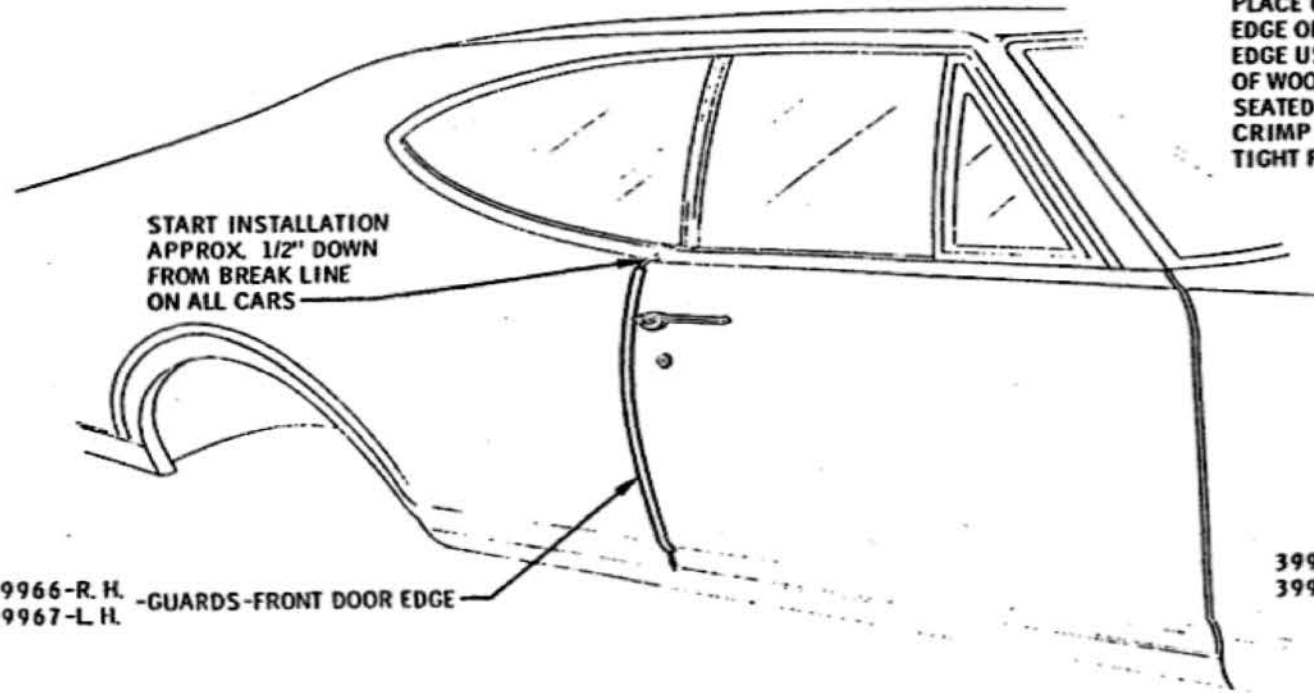


A 4800 MODELS

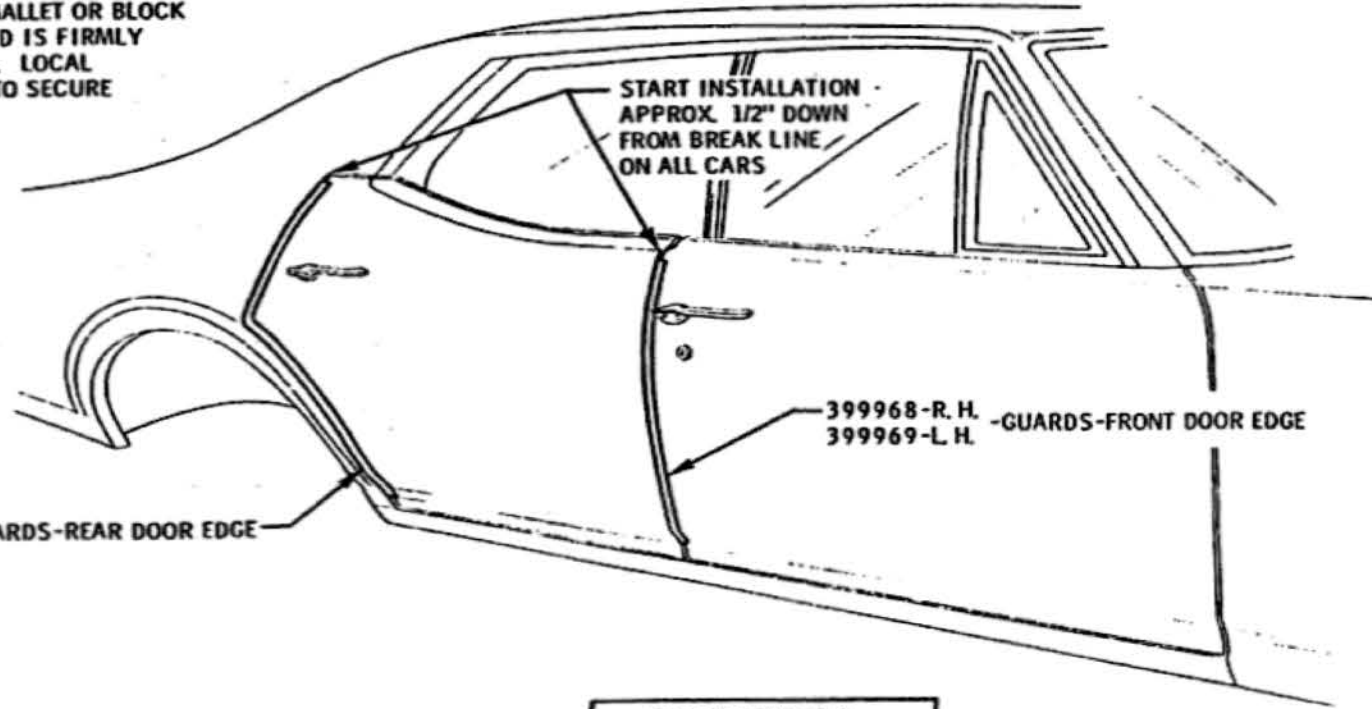


TYPICAL SECTION THRU REAR EDGE OF DOOR AND DOOR GUARD

GENERAL INSTRUCTIONS
PLACE GUARD IN POSITION ON REAR
EDGE OF DOOR AS SHOWN AND TAP OVER
EDGE USING RUBBER Mallet OR BLOCK
OF WOOD, UNTIL GUARD IS FIRMLY
SEATED ON DOOR EDGE. LOCAL
CRIMP PERMISSIBLE TO SECURE
TIGHT FIT:

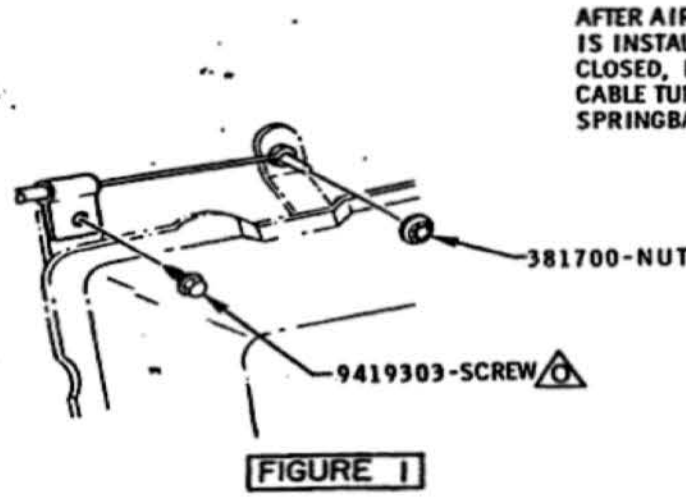


2 DOOR COUPE MODELS

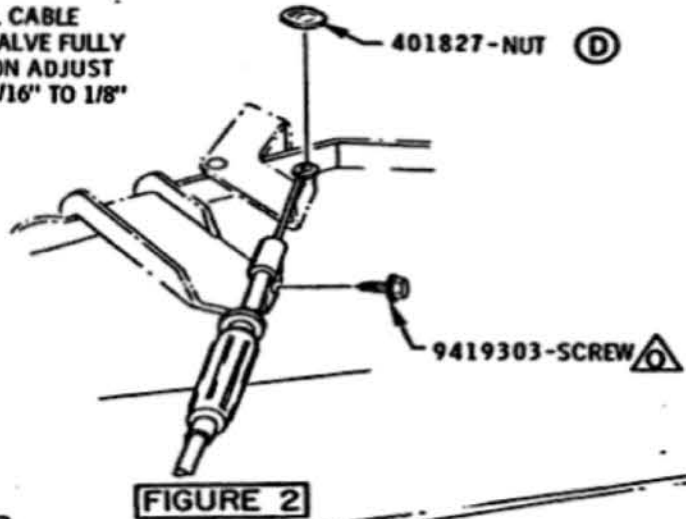


4 DOOR SEDANS & STATION WAGONS EXC. 4800

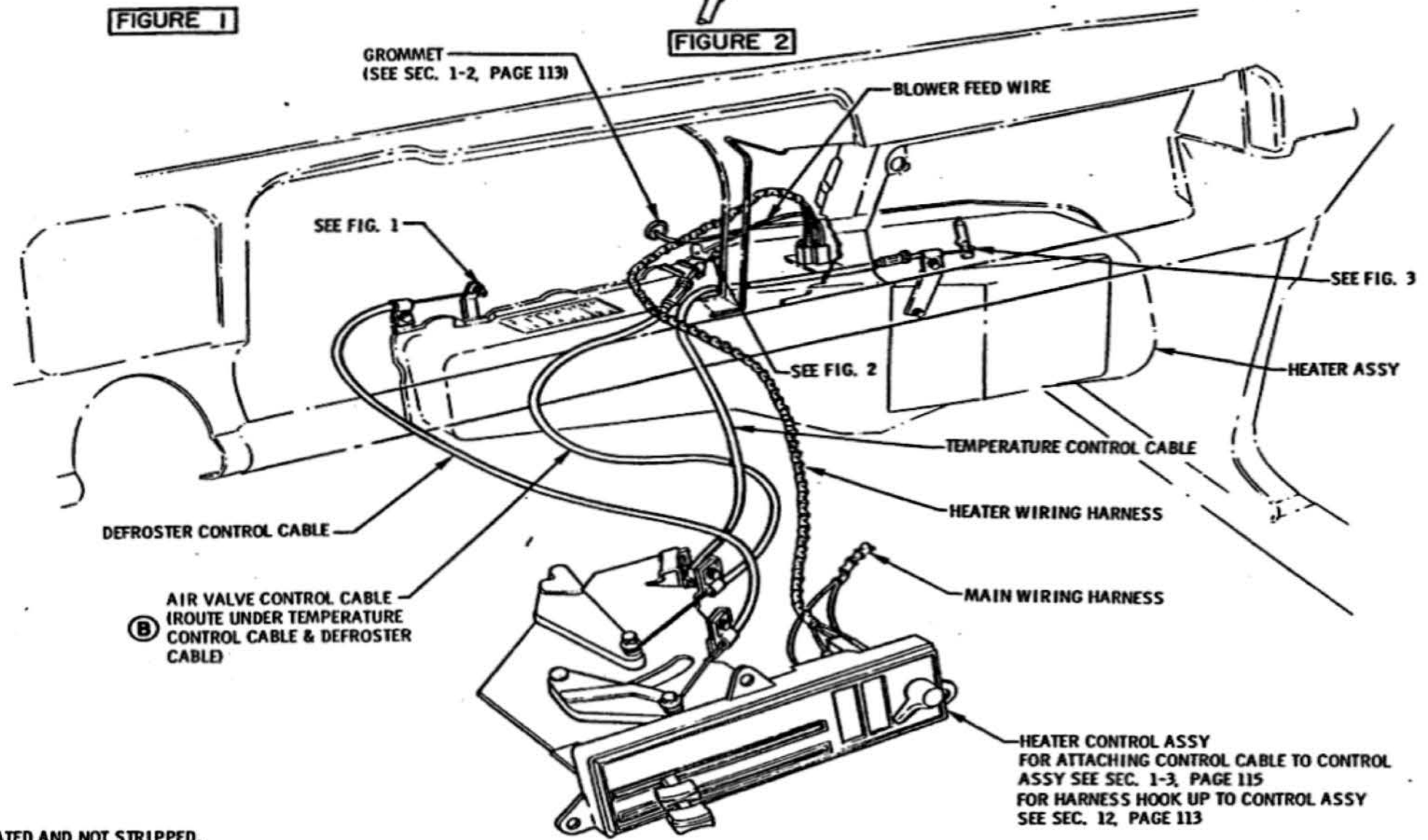
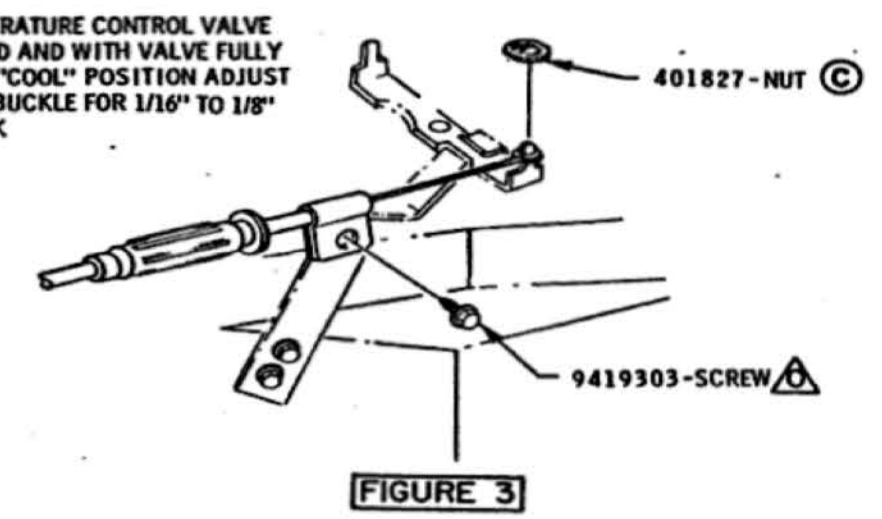
REVISION										TITLE									
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																1968		1-4	410
																REF. 35893			
																	SERIES	PART NO.	
																	A	398162	



AFTER AIR VALVE CONTROL CABLE IS INSTALLED AND WITH VALVE FULLY CLOSED, IN "OFF" POSITION ADJUST CABLE TURNBUCKLE FOR 1/16" TO 1/8" SPRINGBACK.



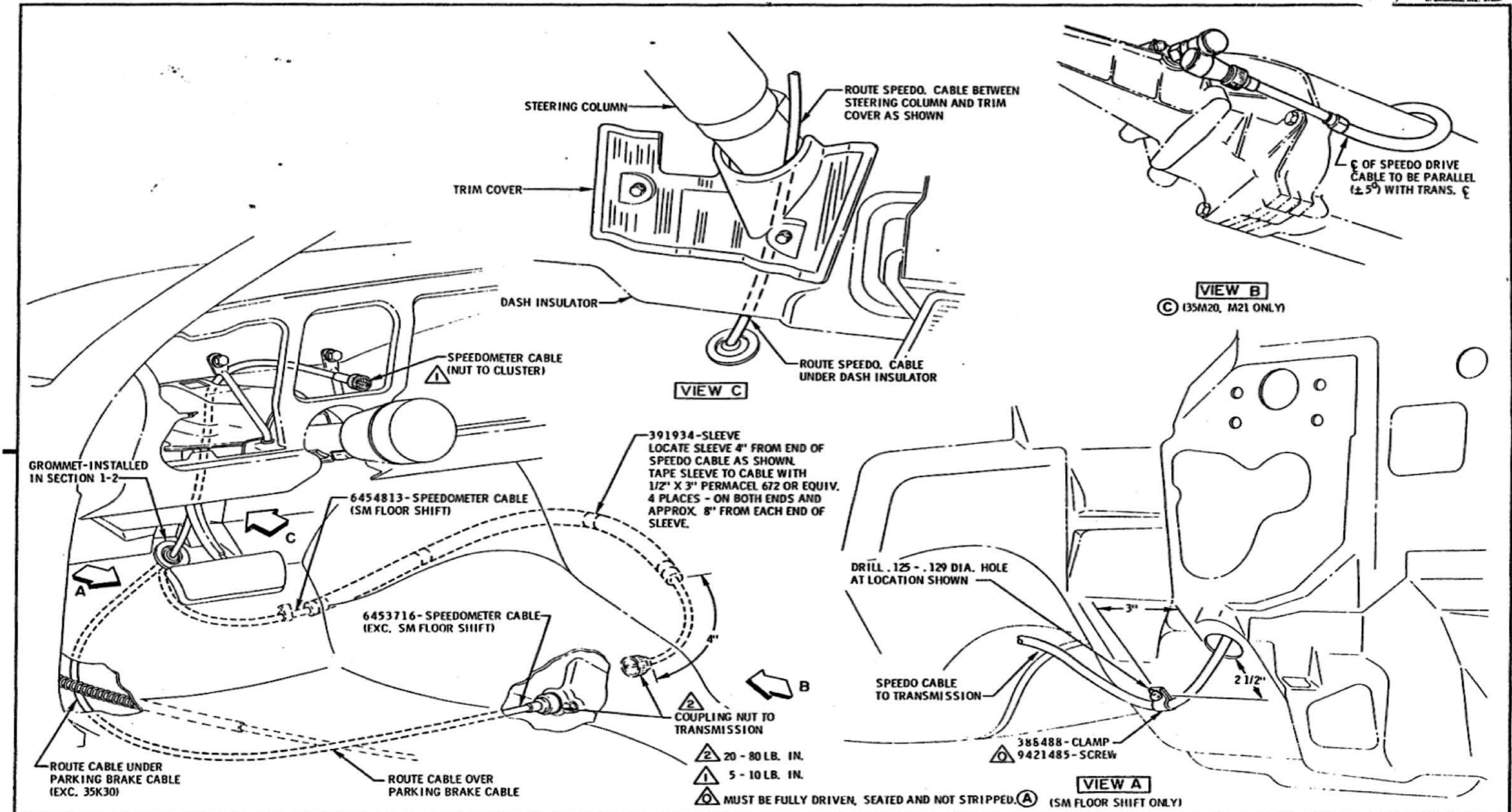
AFTER TEMPERATURE CONTROL VALVE IS INSTALLED AND WITH VALVE FULLY CLOSED, IN "COOL" POSITION ADJUST CABLE TURNBUCKLE FOR 1/16" TO 1/8" SPRINGBACK.



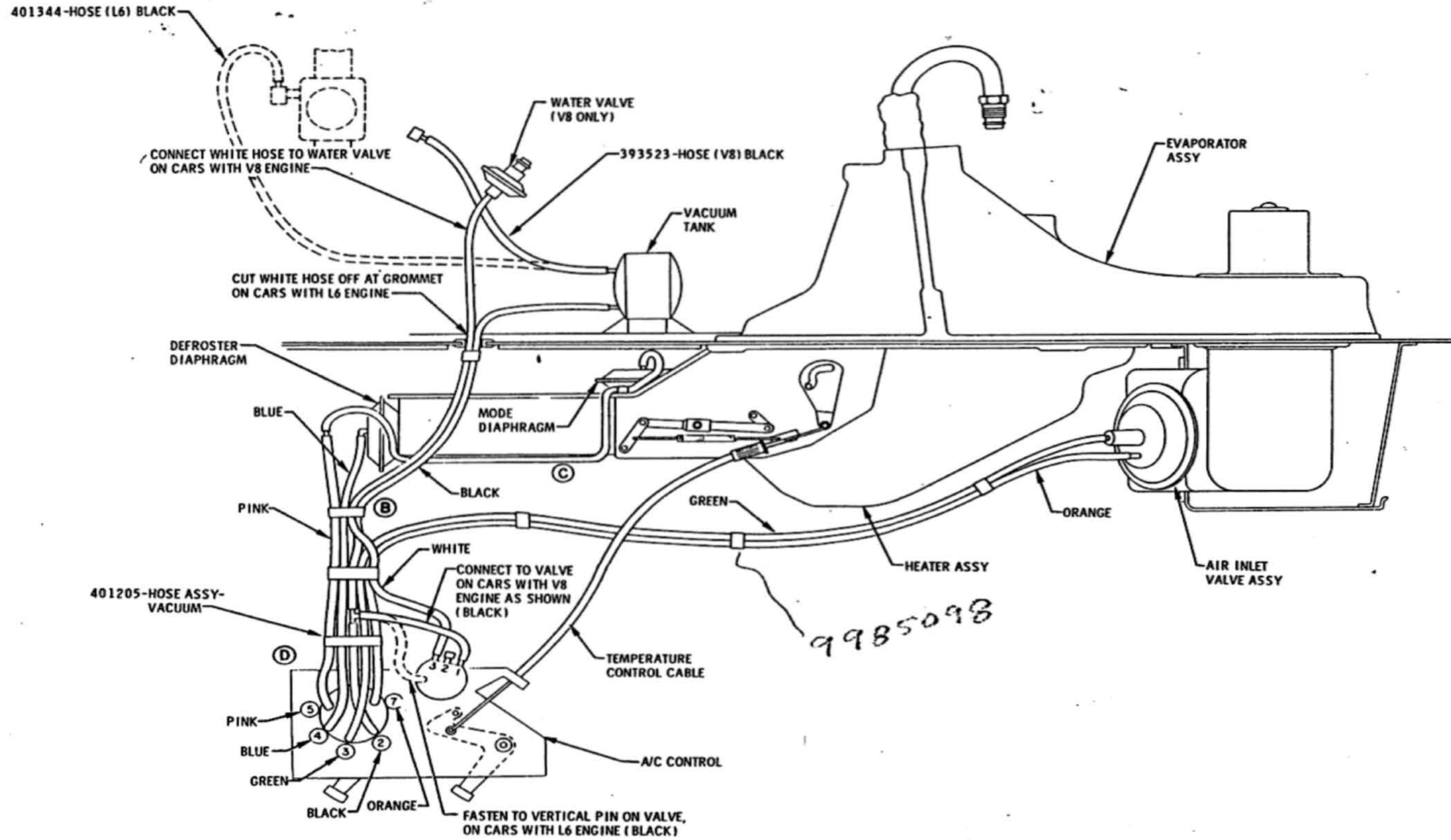
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

REVISIONS										TITLE				FIRST USED		MANUAL SECTION		PAGE	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
							9-14-67	D				WAS 381700-NUT	PJM	DT					
							8-30-67	C				WAS 381700-NUT	EJN	DT					
							9-28-67	B				CABLE ROUTING REV.	PJM	DT					
							7-7-67	A				TORQUE NOTE ADDED	PM	BP					

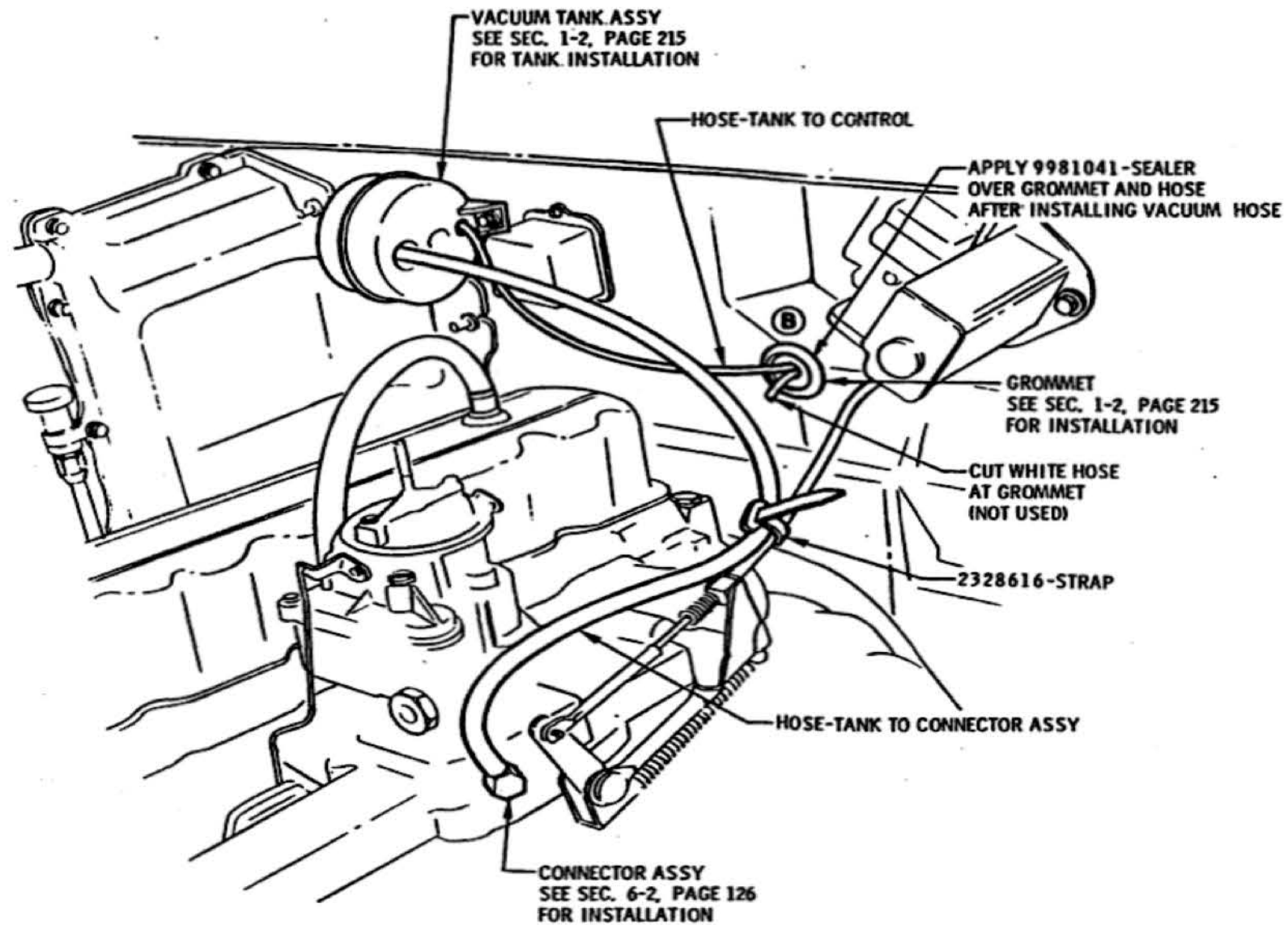
TITLE										FIRST USED		MANUAL SECTION		PAGE	
IA2C CONTROL CABLES										1968		1-5		111	
DATE										REF.		SERIES		PART NO.	
APR 26 1967										1A2C		A		398162	
DR. BY B. PARKER															
CHECKED															
APPR. H. SCHOTTENBERG															
APPR. Fred J...															



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
															SPEEDOMETER CABLE ROUTING	1968		1-5	116
					1-25-68	C	NOTE ADDED								DATE APR. 17 1967				
					9-27-67	B	REVISED & REDRAWN								DR. BY WE. MASON				
					4-27-67	A	TORQUE NOTE ADDED								CHECKED J. W. A.				
															APPR.	REF 12	SERIES A	PART NO. 398162	

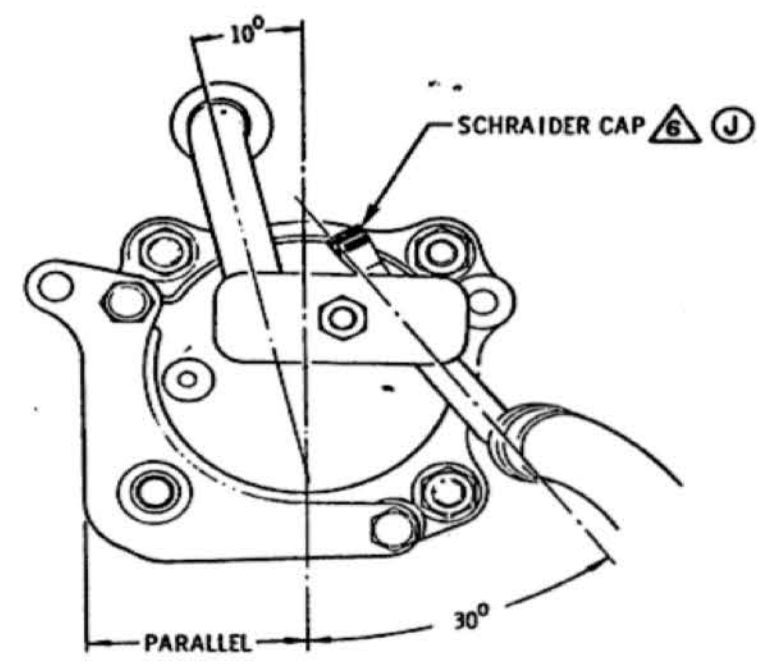


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-26-68	D	CONTROL HOSES REVISED	VG	DT							A/C VACUUM HOSE DIAGRAM	1968		1-5	210
					11-8-67	C	MODE DIAPHRAGM HOSE ROUTING REVISED	BP	DT							DATE MAY 18, 1967				
					8-10-67	B	HOSE TAPING REVISED	VG	DT							DR. BY JOSEPH V. GALL				
					10/2/67	A	BACKGROUND REVISED	VG	DT							CHECKED <i>J. Gall</i>	REF. 35C60			
																APPR.		SERIES	PART NO.	
																		A	398162	



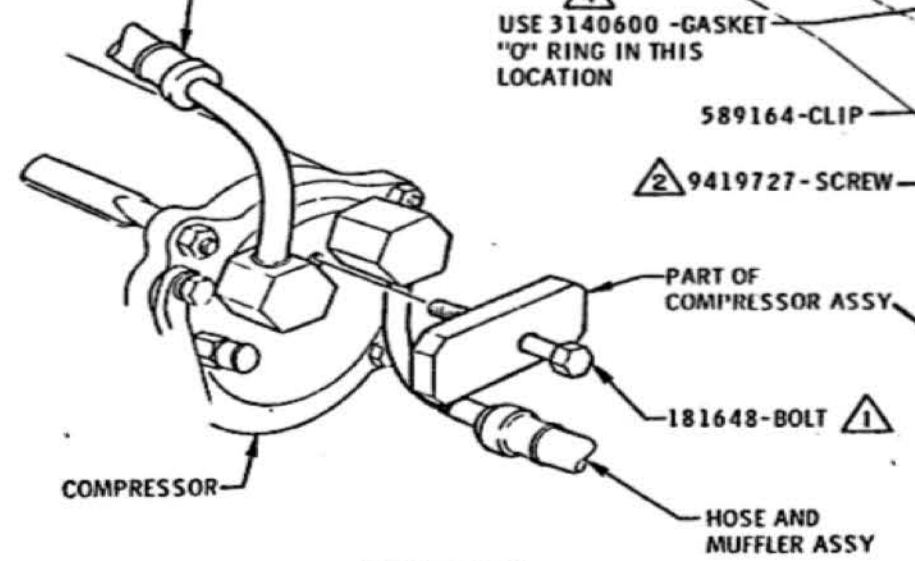
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																35C60 VACUUM HOSE ROUTING (ENGINE COMPARTMENT) L-6	1968		1-5	215
					7-10-67	B	GROMMET REVISED													
					5-18-67	A	REDRAWN & REVISED													
																	35660		A	PART NO. 398162

- ⊙ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.
- ① 20 - 25 LB. FT.
- ② 15 - 20 LB. IN.
- ③ 11 - 15 LB. FT.
- ④ 15 - 20 LB. FT.
- ⑤ 28 - 33 LB. FT.
- ⑥ 5 - 7 LB. FT.

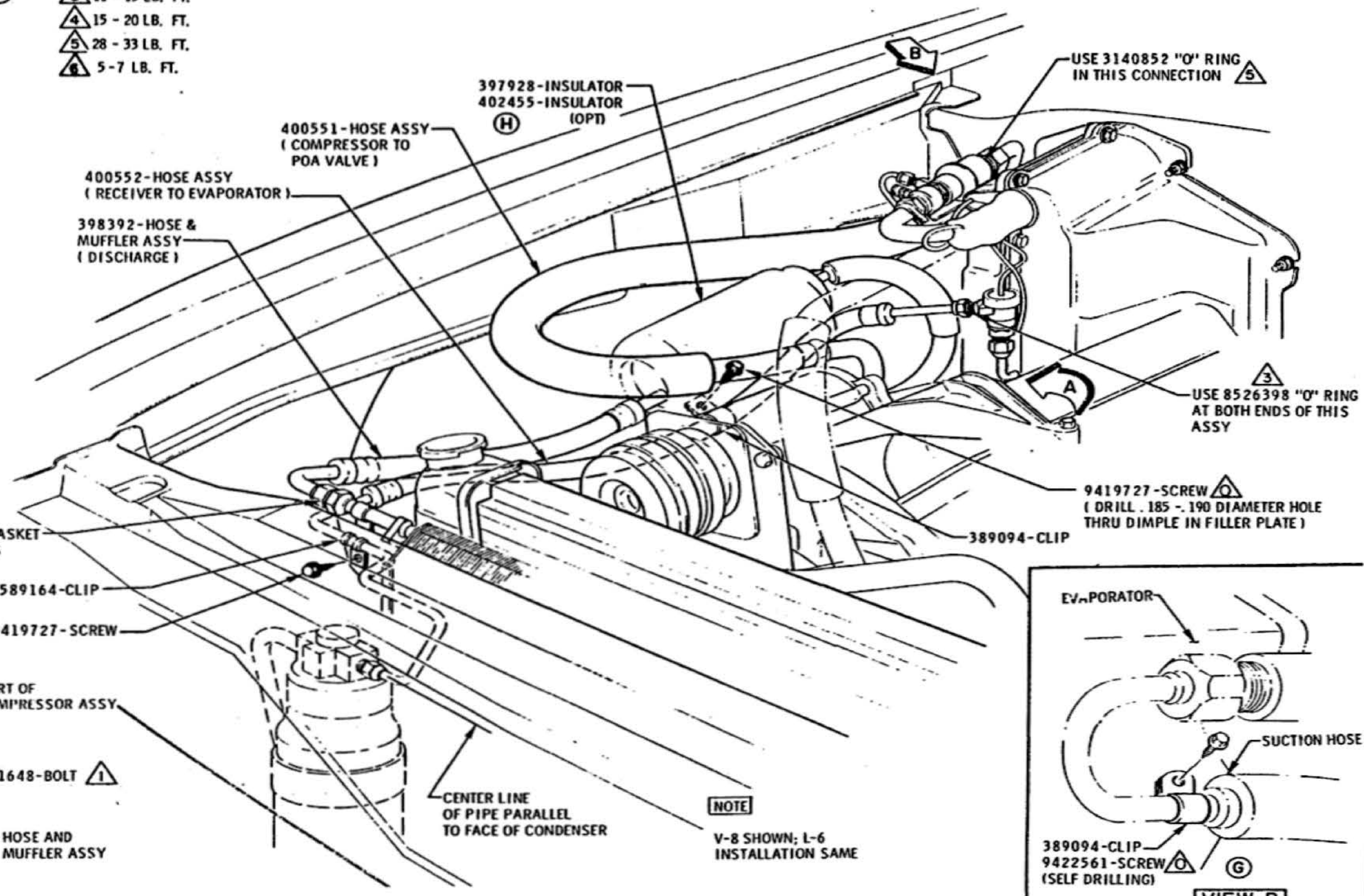


COMPRESSOR END VIEW OF HOSE POSITIONING

COMPRESSOR-TO P.O.A. VALVE HOSE ASSY

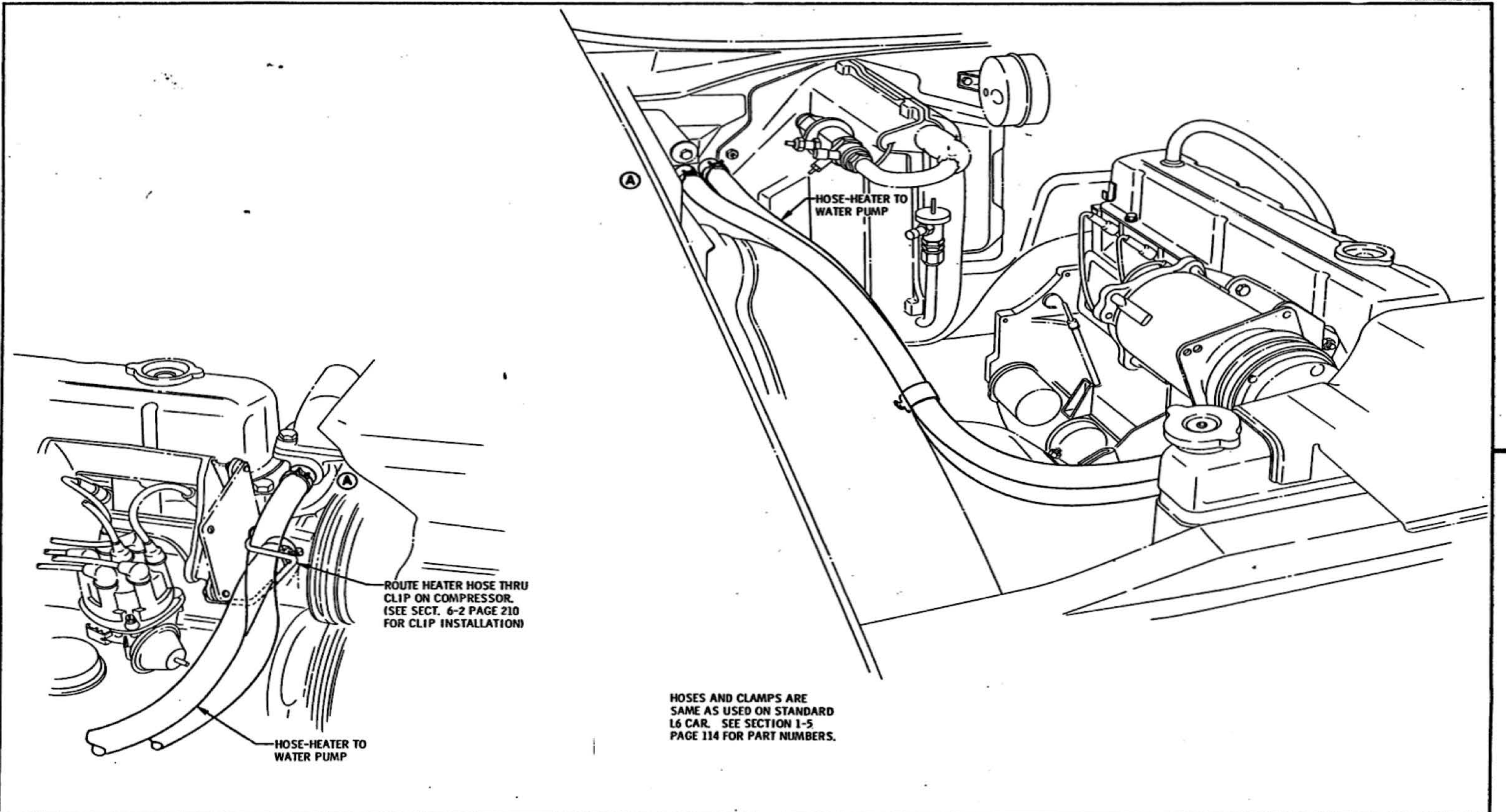


VIEW A



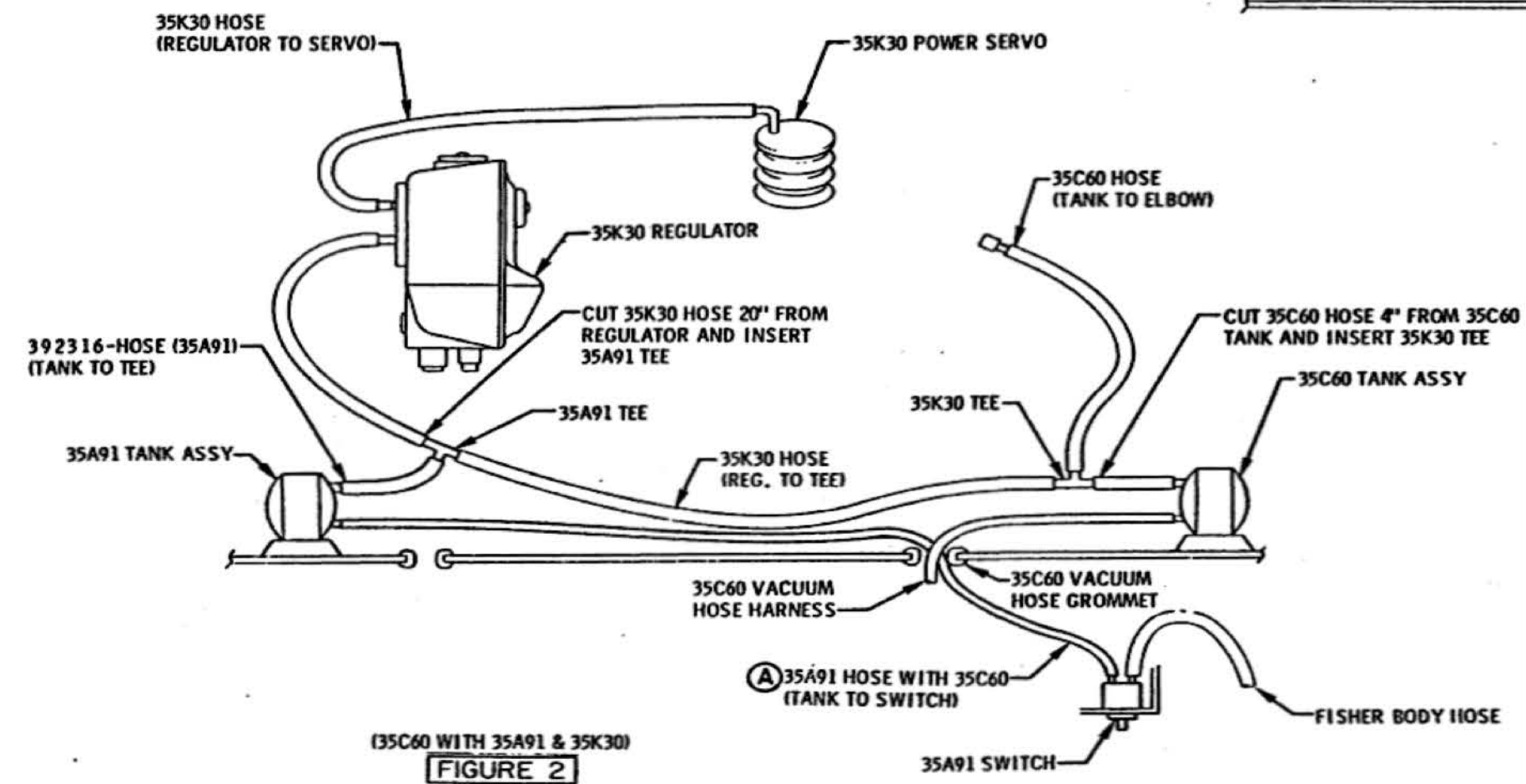
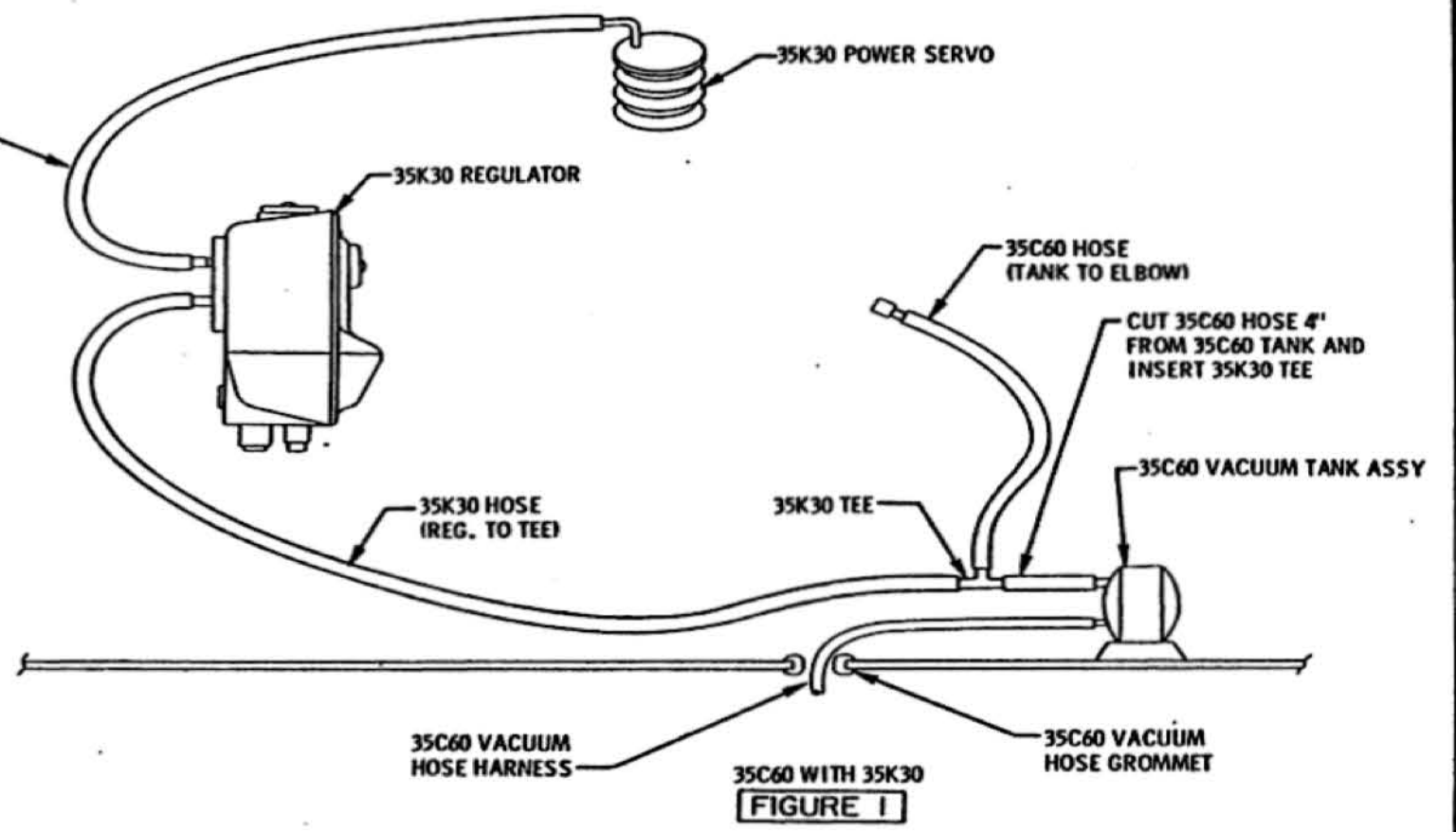
VIEW B

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
					6-5-67	E	VIEW ADDED	PK	DT							AIR CONDITIONING MUFFLER AND HOSES				
		3-25-68	J				TORQUE ADDED	WM	DT	6-5-67	D	NOSES REV. TO DETAIL	OK	DT		DATE M.R.R. 1, 1967	1968		1-5	216
		11-8-67	H				PART NUMBER ADDED	RS	DT	4-21-67	C	NOTE ADDED	RS	DT		DR BY G. KESTER				
		7-26-67	G				VIEW B' ADDED	BA	DT	4-21-67	B	VIEW A ADDED	RS	DT		CHECKED J. J. J.				
		7-6-67	F				TORQUES ADDED	RS	DT	3-23-67	A	VIEW "A" REMOVED	RS	DT		APPR.				
																REF. 35C60		SERIES A		PART NO. 398162



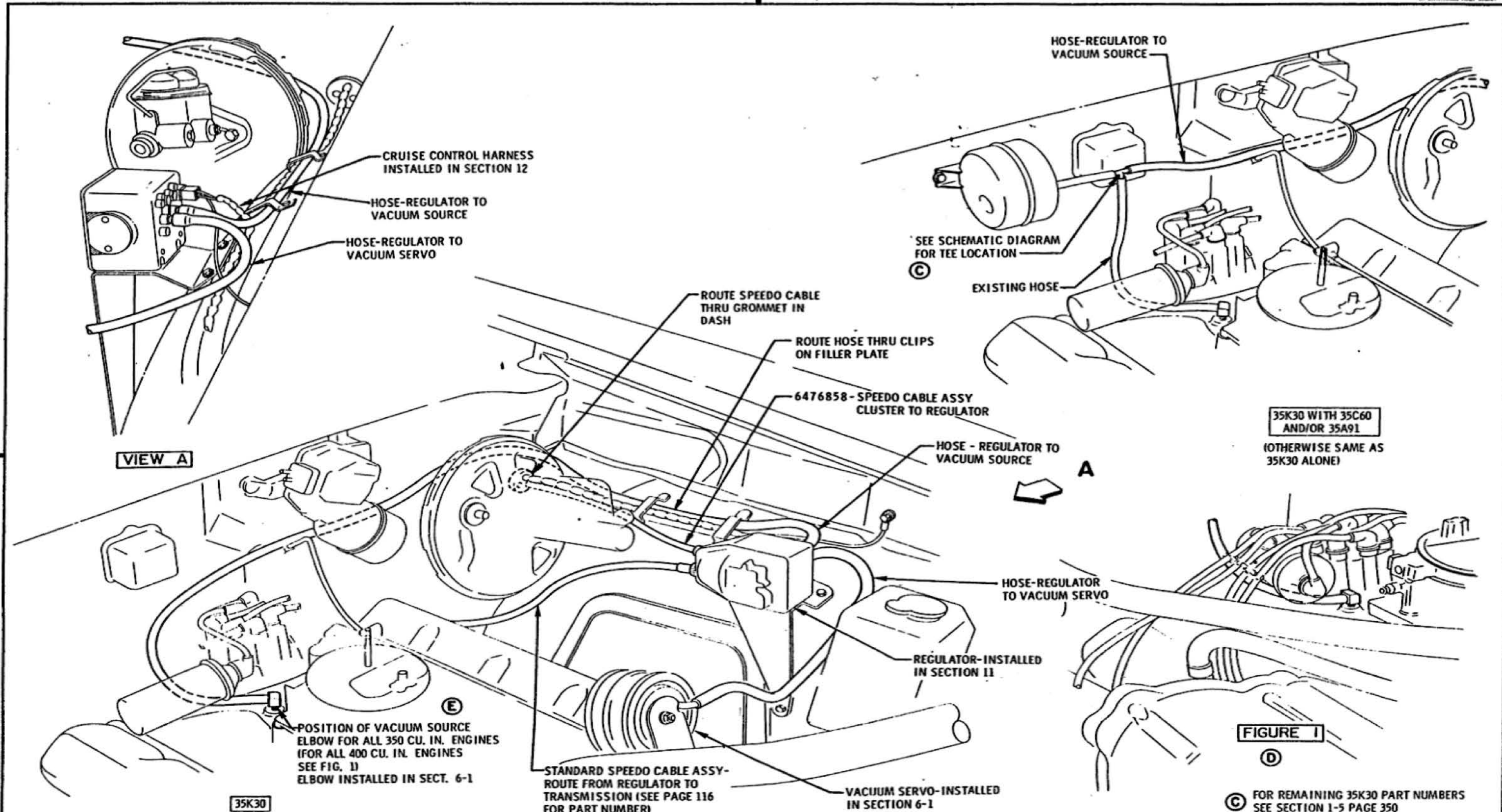
HOSES AND CLAMPS ARE
SAME AS USED ON STANDARD
L6 CAR. SEE SECTION 1-5
PAGE 114 FOR PART NUMBERS.

										TITLE		HEATER WATER HOSES WITH 35C60-L6							
										DATE		APR. 11, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SECTION	1-5	PAGE	218
										DR. BY		MODERN ENGRG	CHECKED	JTD	REF.	SERIES	A	PART NO.	398162
										5-16-67 A		CLAMPS REVISED		DR. CK.	APPR.				
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.							



FOR 35A91 SCHEMATIC HOSE DIAGRAM WITH 35C60 AND PART NUMBERS SEE SECT. 1-5 PAGE 370 FIGURE 2
 FOR 35K30 PART NUMBERS SEE SECT. 1-5 PAGE 350 FIGURE 2
 FOR 35C60 PART NUMBERS SEE SECT. 1-5 PAGE 210

										TITLE		SCHEMATIC VACUUM HOSE DIAGRAM - 35C60 WITH 35A91 AND/OR 35K30						
										DATE	JUNE 19, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	1-5	PAGE	250
										DR. BY	JOE GALL	CHECKED	APPR.	REF. 35C60, 35A91, 35K30	SERIES	A	PART NO.	398162
										DATE	1-20-68	REVISION	A	HOSE ROUTING REVISED				
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.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																					CRUISE CONTROL HOSES & CABLE	1968		1-5	352

35K30

FIGURE 1

© FOR REMAINING 35K30 PART NUMBERS SEE SECTION 1-5 PAGE 350

35K30 WITH 35C60 AND/OR 35A91 (OTHERWISE SAME AS 35K30 ALONE)

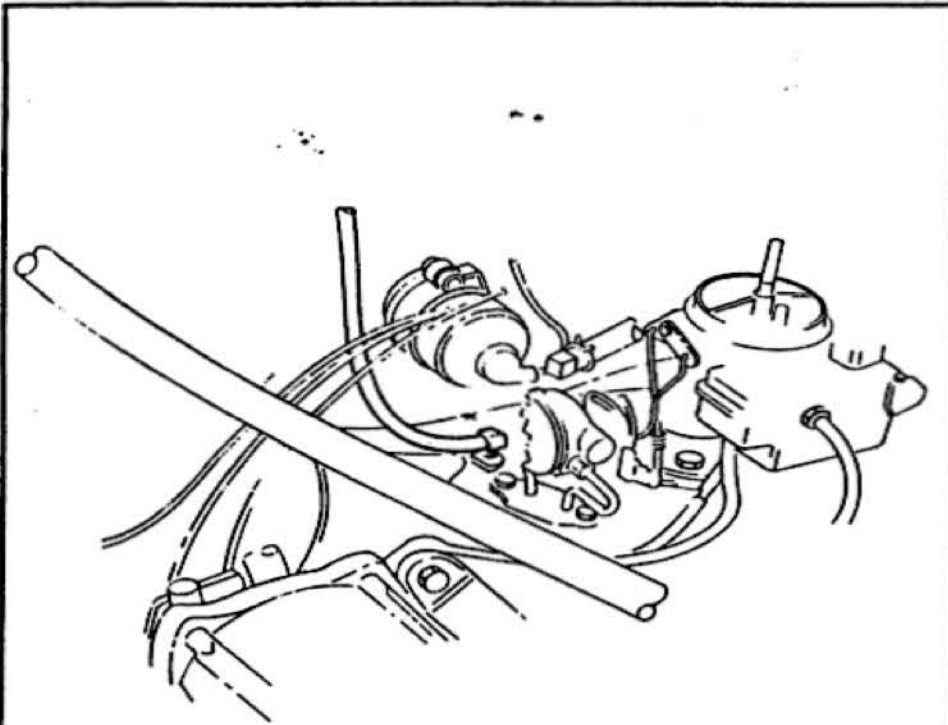
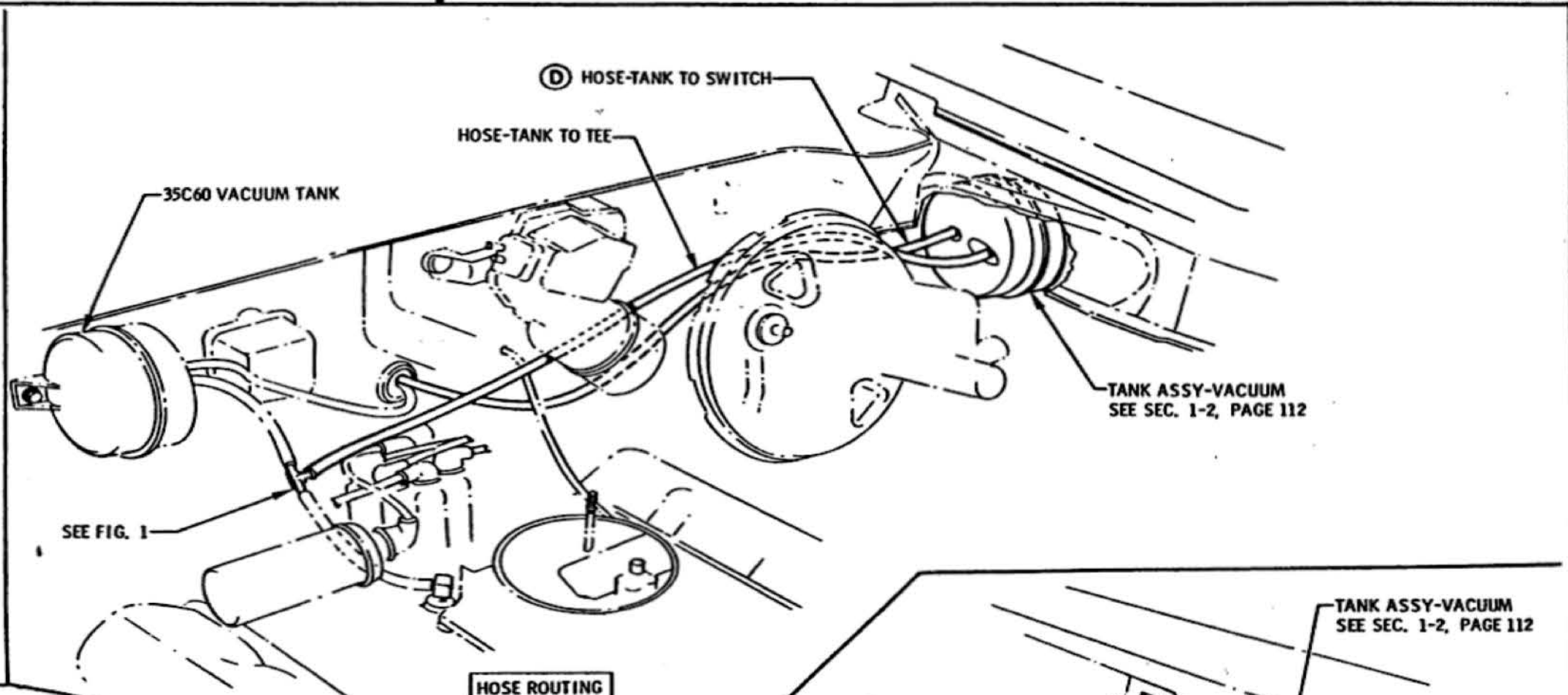
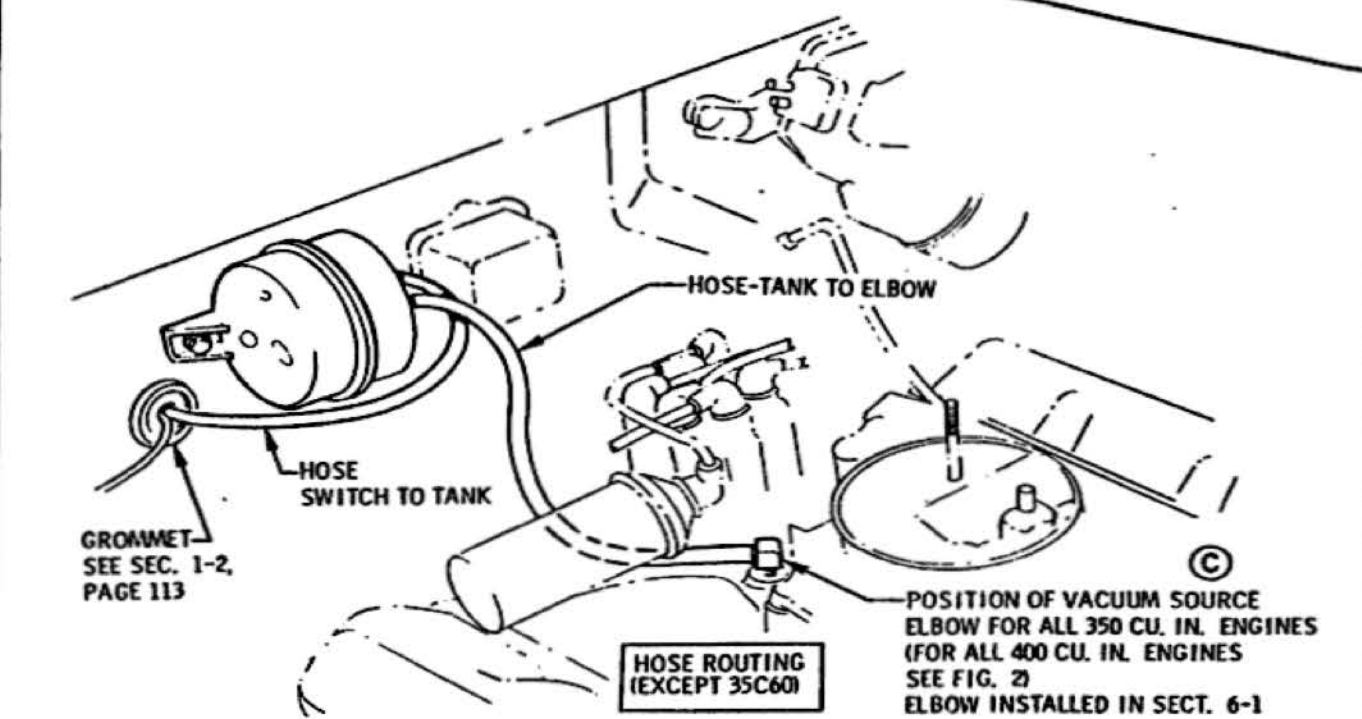


FIGURE 2 B



HOSE ROUTING WITH 35C60



HOSE ROUTING (EXCEPT 35C60)

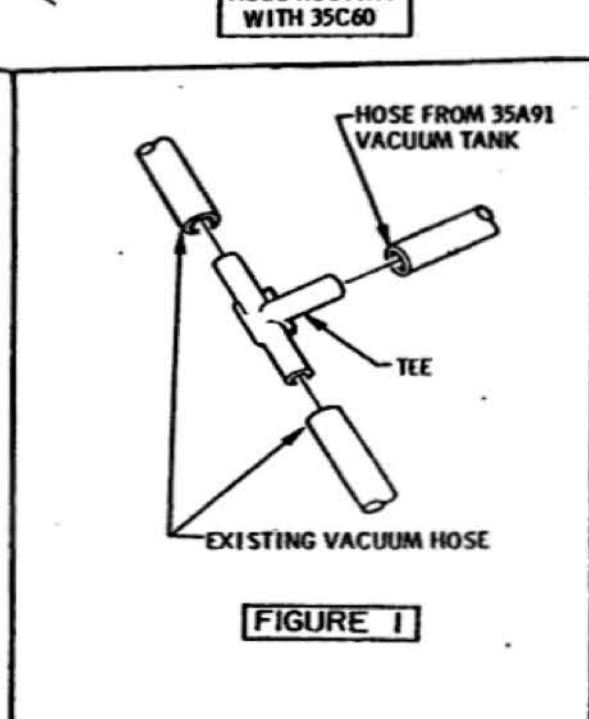
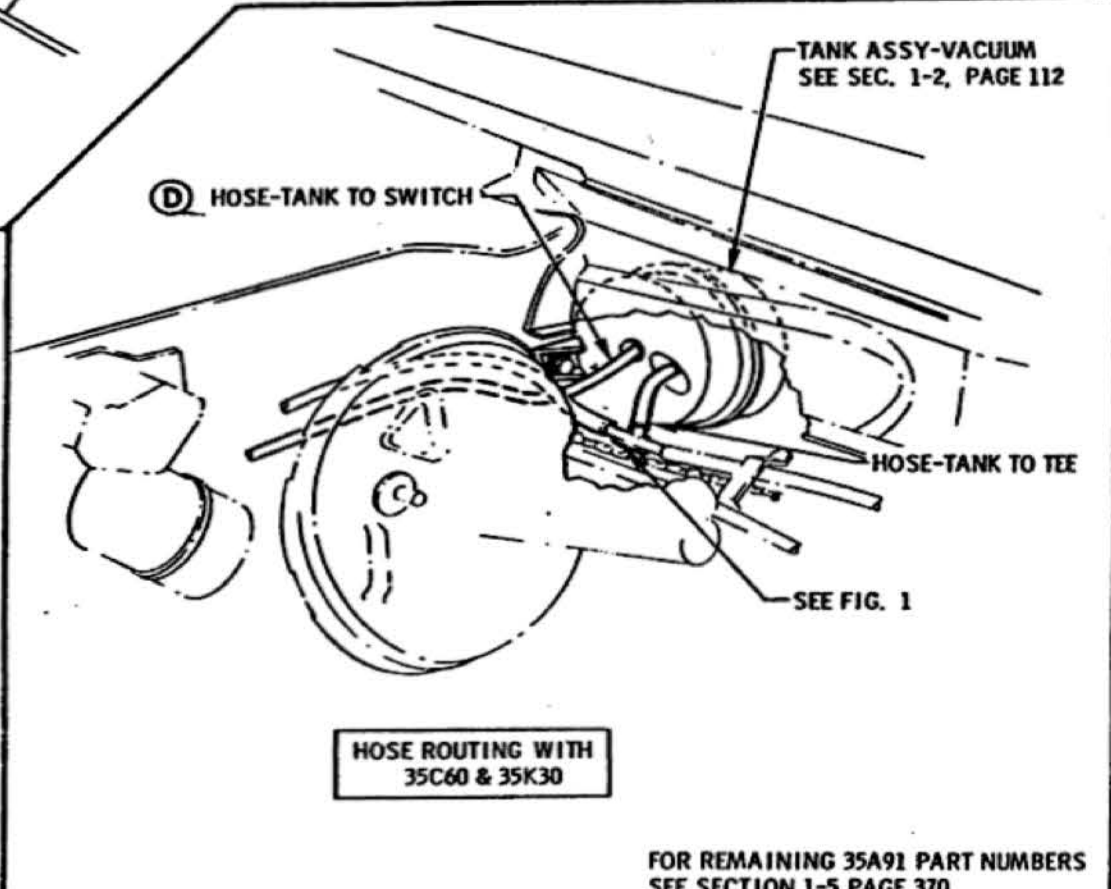


FIGURE 1



HOSE ROUTING WITH 35C60 & 35K30

FOR REMAINING 35A91 PART NUMBERS SEE SECTION 1-5 PAGE 370

DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	CR	CK	DATE	SYM	REVISION	DR	CK	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					1-30-68	D	HOSE ROUTING REVISED									35A91 VACUUM HOSE ROUTING (ENGINE COMPARTMENT) V8	1968		1-5	372
					10-9-67	C	NOTE REVISED									DATE: APR 17 1967 DR. BY: B. PARKER				
					10-9-67	BE	VIEW ADDED									CHECKED: JEM				
					6-2-67	A	NOTE ADDED									APPR.:	REF. 35A91	SERIES A	PART NO. 398162	

FRONT SUSPENSION SPRING USAGE — 1968 F-85

SERIES	MODEL	3C STANDARD	C60 (A/C) D EXC. POLICE, EXPORT OR 400 ENG.	D B01, B07 (EXC. L77), F74 OR FE1 POLICE (EXC. 400 ENG.), EXP OR RALLY SUSP.]		B01, B07 WITH L-77 (POLICE WITH 400 ENG.)		D L65 OR L78 (400 ENG.)	
				EXC. C60	C60	EXC. C60	C60	EXC. C60	C60
33100 L6	69	401184 LD	401187 LP	401418 RW	401419 RY	NA	NA	NA	NA
	77	401244 LN	401187 LP	401418 RW	401419 RY	NA	NA	NA	NA
33200 V8	69	400872 LT	400881 LY	401420 RX	400334 RI	400333 RD	400335 RK	NA	NA
	77	400872 LT	400881 LY	401420 RX	400333 RD	400333 RD	400335 RK	NA	NA
33500 L6	35	R.H. - 401244 LN	R.H. - 401187 LP	R.H. - 401419 RY	R.H. - 400329 SL	NA	NA	NA	NA
		L.H. - 401184 LD	L.H. - 401187 LP	L.H. - 400329 SL	L.H. - 400330 SV	NA	NA	NA	NA
	39	401184 LD	401187 LP	401418 RW	401419 RY	NA	NA	NA	NA
	67	401184 LD	401187 LP	401418 RW	401419 RY	NA	NA	NA	NA
	69	401184 LD	401187 LP	401418 RW	401419 RY	NA	NA	NA	NA
	77	401244 LN	401187 LP	401418 RW	401419 RY	NA	NA	NA	NA
	87	401184 LD	401187 LP	401418 RW	401419 RY	NA	NA	NA	NA
33600 V8	35	R.H. - 400872 LT	R.H. - 400882 SB	R.H. - 400333 RD	R.H. - 400335 RK	NA	NA	NA	NA
		L.H. - 400874 LX	L.H. - 400882 SB	L.H. - 400335 RK	L.H. - 400336 RM	NA	NA	NA	NA
	39	400872 LT	400882 SB	401420 RX	400334 RI	400333 RD	400336 RM	NA	NA
	67	400872 LT	400882 SB	401420 RX	400334 RI	400333 RD	400336 RM	NA	NA
	69	400872 LT	400882 SB	401420 RX	400334 RI	400333 RD	400336 RM	NA	NA
	77	400872 LT	400881 LY	401420 RX	400334 RI	400333 RD	400336 RM	NA	NA
34200 V8	87	400872 LT	400881 LY	401420 RX	400334 RI	400333 RD	400336 RM	NA	NA
	39	400872 LT	400882 SB	401420 RX	400334 RI	400333 RD	400336 RM	NA	NA
	69	400872 LT	400882 SB	401420 RX	400334 RI	400333 RD	400336 RM	NA	NA
34400 V8	87	401420 RX	400334 RI	401420 RX	400334 RI	NA	NA	401420 RX	400334 RI
	77	401420 RX	400334 RI	401420 RX	400334 RI	NA	NA	401420 RX	400334 RI
	67	401420 RX	400334 RI	401420 RX	400334 RI	NA	NA	401420 RX	400334 RI
34800 V8	55	R.H. - 401173 SD	R.H. - 400981 SN	R.H. - 400336 RM	R.H. - 401421 RP	R.H. - 401421 RP	R.H. - 400338 RV	R.H. - 401421 RP	R.H. - 400338 RV
		L.H. - 400981 SN	L.H. - 401174 SK	L.H. - 401421 RP	L.H. - 400338 RV	L.H. - 400338 RV	L.H. - 401428 L4	L.H. - 400338 RV	L.H. - 401428 L4
	65	R.H. - 401173 SD	R.H. - 400981 SN	R.H. - 400336 RM	R.H. - 401421 RP	R.H. - 401421 RP	R.H. - 400338 RV	R.H. - 401421 RP	R.H. - 400338 RV
		L.H. - 400981 SN	L.H. - 401174 SK	L.H. - 401421 RP	L.H. - 400338 RV	L.H. - 400338 RV	L.H. - 401428 L4	L.H. - 400338 RV	L.H. - 401428 L4

STANDARD USAGE EXCEPT 35, 55 & 65 MODELS:
USE HIGH RANGE SPRING ON L.H. SIDE OF CAR AND LOW RANGE ON R.H. SIDE.

TEMPORARY USAGE EXCEPT 35, 55 & 65 MODELS:
WHEN BOTH SPRING RANGES ARE NOT AVAILABLE USE SAME RANGE SPRING ON BOTH SIDES OF CAR.

USAGE FOR 35, 55 & 65 MODELS:
USE SAME RANGE SPRING ON BOTH SIDES OF CAR.

TAPE IDENTIFICATION:
HIGH LOAD RANGE - PLAIN IDENTIFICATION.

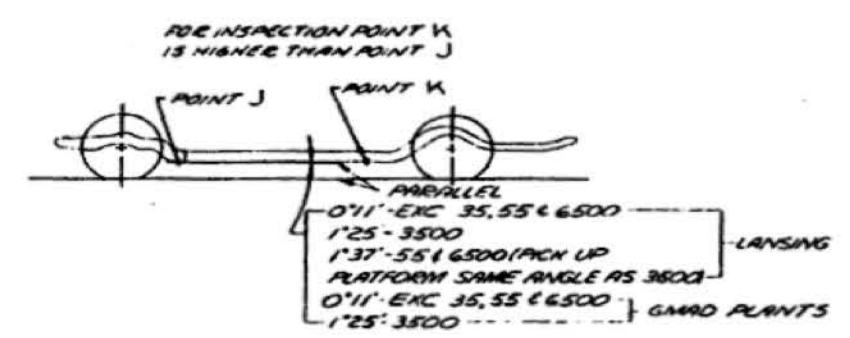
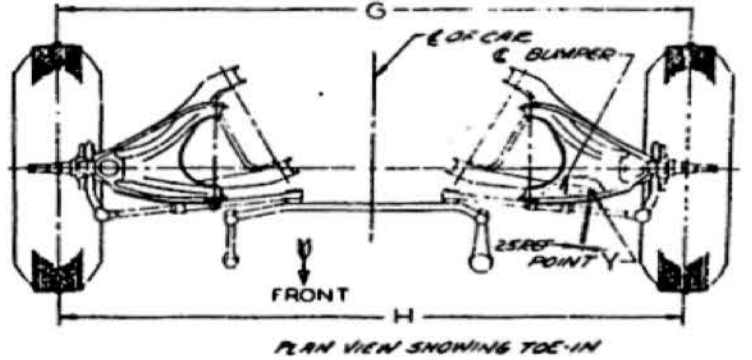
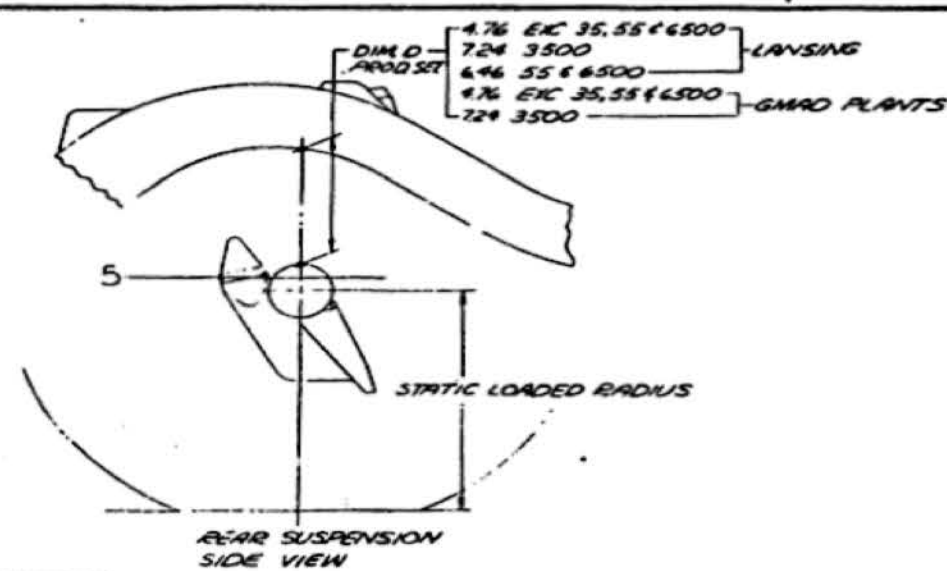
LOW LOAD RANGE - BLACK CIRCLE AROUND CODE LETTER.

PLUS 400360 SHIM SHOWN ON CHART 400359

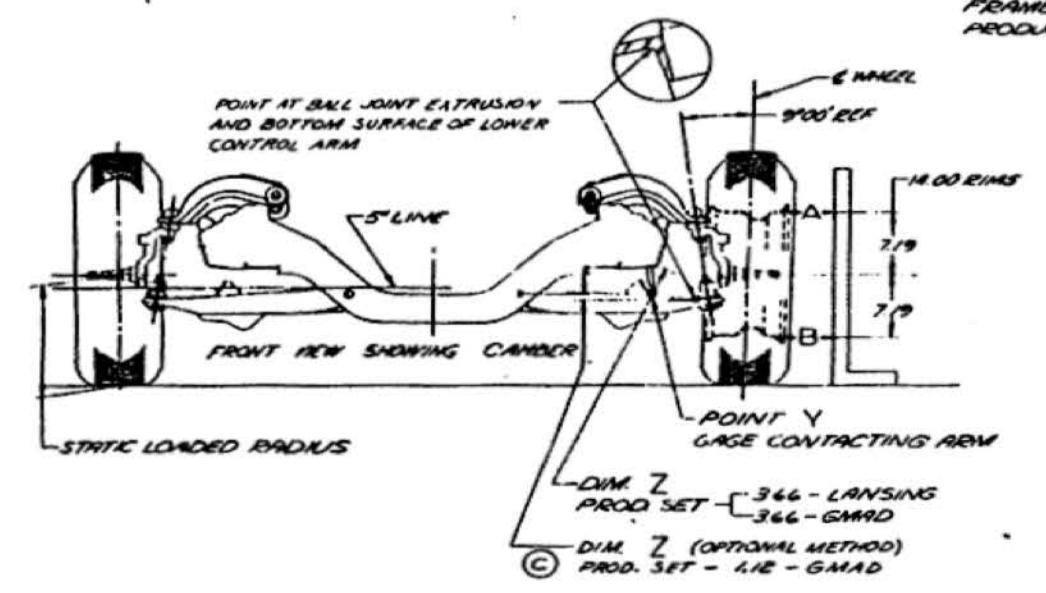
FOR SPRING DETAIL SEE DRAWING 400860

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
										92567 E BOARD REVISED 61667 D3 HEADING REVISED 52367 C REVISED 5167 B REVISED 11-67 A HEADING REVISED									
										TITLE CHART - FRONT SPRING USAGE DATE FEB. 25, 1967 DR. BY D.J. SCOTT CHECKED DON MALKIN APPR.									
										FIRST USED 1968 OLDSEMOBILE PRODUCT INFORMATION MANUAL MANUAL SEC. 3 PAGE 100 SERIES A PART NO. 400399									

REV	DATE	DESCRIPTION	BY	CHK
1	10-08-56	REVISED		
2	0-18-57	REVISED		
3	1-14-58	REVISED		
4	2-10-58	REVISED		
5	2-10-58	REVISED		
6	2-10-58	REVISED		
7	2-10-58	REVISED		
8	2-10-58	REVISED		
9	2-10-58	REVISED		
10	2-10-58	REVISED		



FRAME ANGLES FOR PRODUCTION SETTING HEIGHT



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 EXC 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.
LANSING PROD SETTING- DIMENSION G 16" TO 1/8" GREATER THAN DIMENSION H.
GMAD PLANTS PROD SETTING- DIM G 16" TO 1/8" GREATER THAN DIMENSION H-VEHICLE MUST BE AT FREE STANDING HEIGHT IN THE AS SHIPPED CONDITION. A MINIMUM OF ONE COMPLETE THREAD MUST PROJECT BEYOND EACH END OF THE RJU SLEEVE AFTER TOE-IN IS SET (ALL PLANTS)
SERVICE LIMIT- DISTANCE FROM ONE TIRE TO THE OTHER AT POINT G SHOULD BE 1/8" TO 3/16" GREATER THAN AT POINT H.

CAMBER:
LANSING PROD SETTING CAMBER ANGLE 1/8" POSITIVE ± 3/16"
GMAD PLANTS PROD SETTING CAMBER ANGLE 1/8" POSITIVE ± 1/8"
SERVICE LIMIT- CAMBER ANGLE 1/2" NEG TO 1/2" POSITIVE. EQUIVALENT DISTANCE A IS .12 LESS TO .06 MORE THAN B. MAXIMUM VARIATIONS BETWEEN THE TWO SIDES OF THE CAR SHOULD NOT EXCEED 1/2" FOR BOTH PROD & SERVICE SETTINGS.

CASTER:
LANSING PROD SETTING CASTER ANGLE TO BE 1/4" NEGATIVE ± 3/16" (A)
GMAD PLANTS PROD SETTING CASTER ANGLE 1/4" NEGATIVE ± 1/4" (B)
SERVICE LIMIT- CASTER ANGLE TO BE 1/2" NEG TO 0" NEG. MAXIMUM VARIATIONS BETWEEN THE TWO SIDES OF THE CAR SHOULD NOT EXCEED 3/4" FOR BOTH PROD AND SERVICE SETTING.

TURNING ANGLE FROM STRAIGHT AHEAD POSITION:
INNER WHEEL 35°15' - OUTER WHEEL 33°23'
FRONT WHEEL TRACK (AT GROUND) ALL MODELS 59.01 CURB.
REAR WHEEL TRACK: ALL MODELS 59.00.

NO 400957
 SHEET 1 OF 1
 LAY OUT

UNLESS OTHERWISE SPECIFIED IT IS ALLOWED TO USE PLACE DIMENSIONS & DIM ALLOWED ON THREE PLANE DIMENSIONS ON ALL DIMENSIONS AND PERFORMS ALLOW FOR FINISH AS FOLLOWS: F1- .005, F2- .005, F3- .005, F4- .005, F5- .005, F6- .005, F7- .005, F8- .005, F9- .005, F10- .005, F11- .005, F12- .005

CONVERSION: DIMENSIONS APPLY TO DIMENSIONS SHOWN, UNLESS INDICATED OTHERWISE BY EXTENSION VECTORS & STANDARD PRACTICE

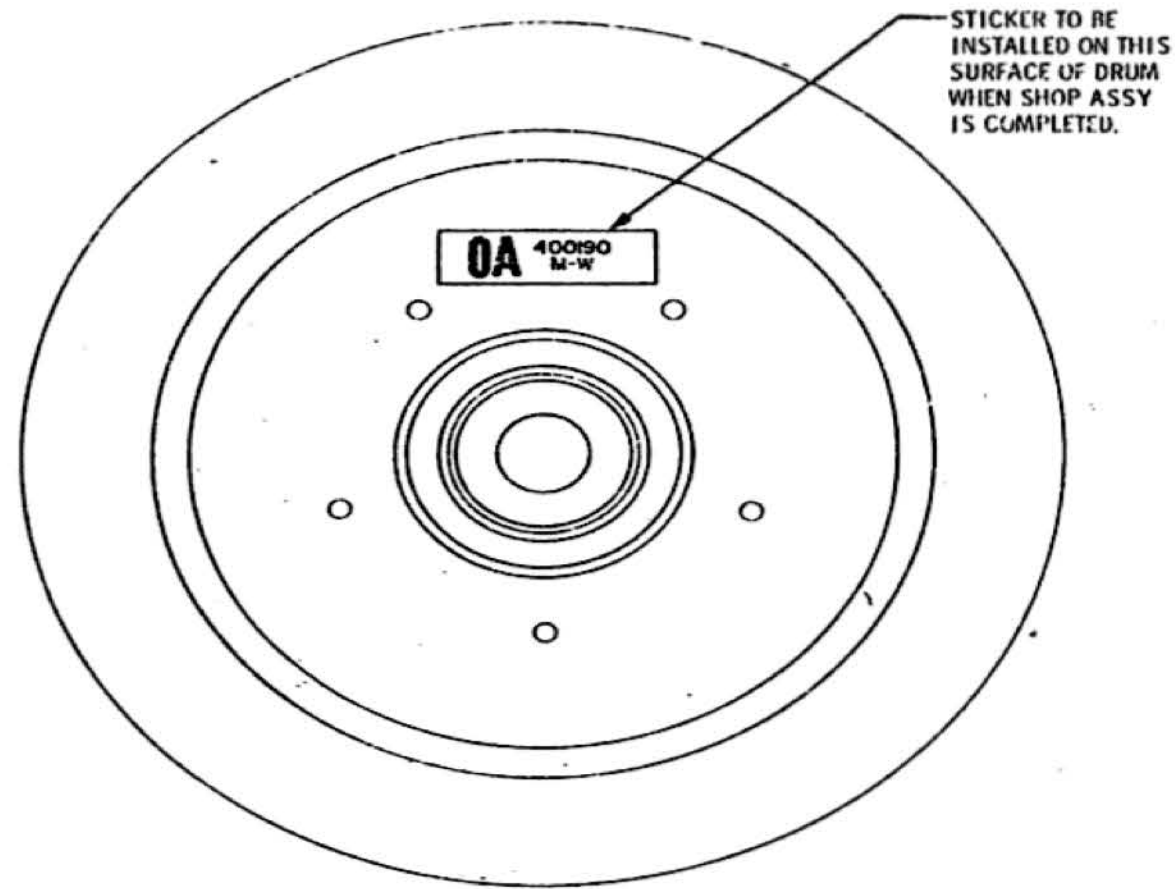
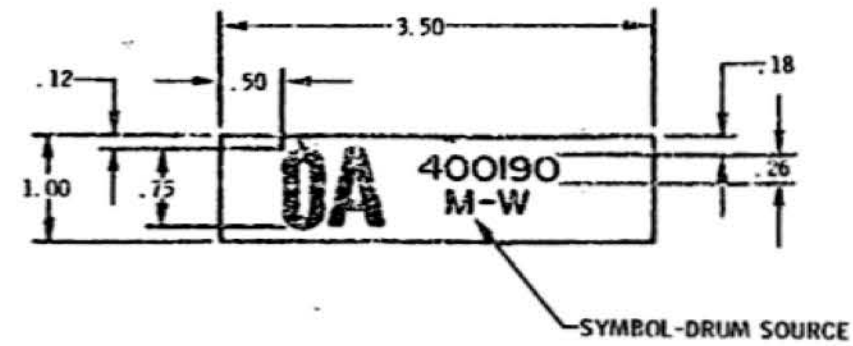
DO NOT SCALE

DATE 10/19/67 BY H. OTIS
 DRAWN BY BEDFORD
 CHECKED BY J. J. [unclear]
 1968
 400957

400957

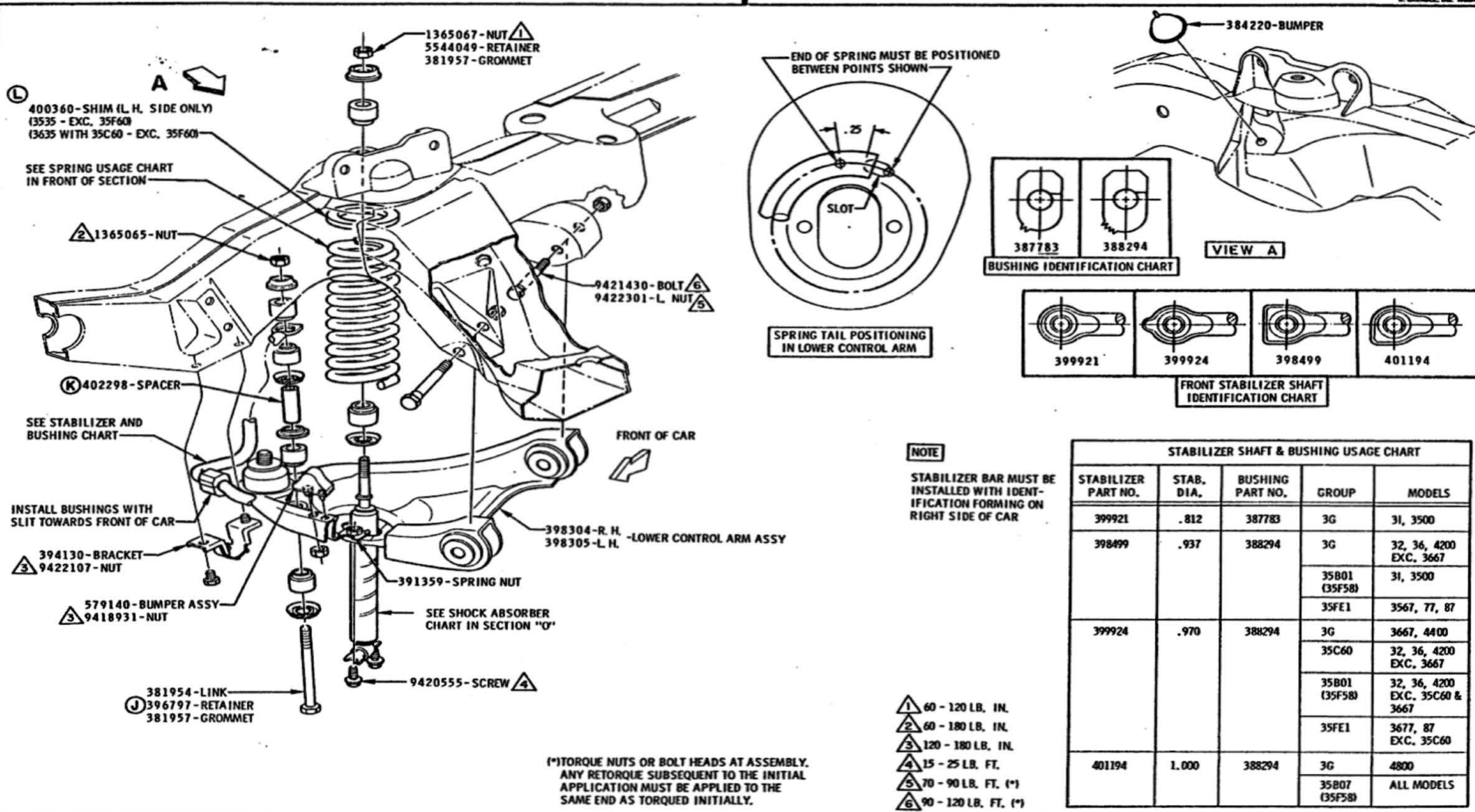
USAGE
STEERING KNUCKLE ASSEMBLIES

CODE	STEERING	MODEL	PART NO.	
OF	MANUAL	54, 56, 64, 66	400188-R 400189-L	
OA	POWER	54, 56, 64, 66 84, 86	400190-R 400191-L	
OS	MANUAL	56, 64 WITH Y-75	400196-R 400197-L	
ON	POWER	56, 64 WITH Y-75	400198-R 400199-L	
OB		ALL F-85 EXC. EXT. WAGONS	398832-R 398833-L	FIRST TYPE
OB		ALL F-85 EXC. EXT. WAGONS	401984-R 401985-L	SECOND TYPE (F)
OD		ALL F-85 EXT. WAGONS	398834-R 398835-L	FIRST TYPE
OD		ALL F-85 EXT. WAGONS	401986-R 401987-L	SECOND TYPE (F)



(E) EXC. J16, J52, J55
SHEET 1 OF 2

										32267 E SUB-TITLE REVISED		TITLE		CHART-KNUCKLE SHOP ASSEMBLY CODE							
										32267 Dx LINE REMOVED		DATE MARCH 21, 1967		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
										51767 C WAS 401198-9		DR. BY D.J. SCOTT		1968		INFORMATION MANUAL		3		105	
										51767 B WAS 401196-7		CHECKED IN FIVES		REF.		SERIALS		PART NO.		400954	
										10667 F2 PART NOS. ADDED		APPR. J.R. [Signature]				A-B-C					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	SERIALS	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
10-19-67	K	WAS 381955			6-6-67	E	USAGE REVISED			NOVEMBER 1, 1966						FRONT SUSPENSION	1968		3	III
10-19-67	J	WAS 5544049			5-2-67	D	USAGE REVISED			DR. BY MASON-BOYER										
9-22-67	H	NOTE REVISED			5-2-67	C	SHIM ADDED			CHECKED N. Bernhart										
9-15-67	G	NOTE REMOVED			5-2-67	B	CHART REVISED			APPR. J. R. Leonard										
10-23-67	L	USAGE REVISED			2-2-67	A	CHART REVISED													

REF. 36 SERIES **A** PART NO. **398162**

REAR SUSPENSION SPRING USAGE-1968 F-85

SERIES	MODEL	4B (STANDARD CAR)	M40 (3 SPEED AUTO. TRANS.)	B01 OR FE1 (POLICE OR RALLY SUSP.)	B07 OR G51 (POLICE OR TRAILER HAULING)	F40 (EXPORT)
33100 (L6)	69	9787260 PC	↑ SAME AS STANDARD CAR ↓	9788589 PP	9793915 HG	9788589 PP
	77	9787047 PU		9788589 PP	9793915 HG	9788589 PP
33200 (V8)	69	9787260 PC		9788589 PP	9793915 HG	9788589 PP
	77	9777794 NN		9788589 PP	9793915 HG	9788589 PP
33500 (L6)	35	9787051 NF		9778687 PN	9792803 HB	9792803 HB
	39	9788444 NO		9788589 PP	9793915 HG	9788589 PP
	67	9787260 PC		9788589 PP	9793915 HG	9788589 PP
	69	9787260 PC		9788589 PP	9793915 HG	9788589 PP
	77	9787047 PU		9788589 PP	9793915 HG	9788589 PP
	87	9777794 NN		9788589 PP	9793915 HG	9788589 PP
33600 (V8)	35	9787051 NF		9778687 PN	9792803 HB	9792803 HB
	39	9788444 NO		9788589 PP	9793915 HG	9788589 PP
	67	9777794 NN		9788589 PP	9793915 HG	9788589 PP
	69	9788444 NO		9788589 PP	9793915 HG	9788589 PP
	77	9777794 NN		9788589 PP	9793915 HG	9788589 PP
	87	9777794 NN		9788589 PP	9793915 HG	9788589 PP
34200 (V8)	39	9787043 NB		9788590 PR	9793915 HG	9788590 PR
	69	9788444 NO		9788589 PP	9793915 HG	9788589 PP
	87	9777794 NN	9788589 PP	9793915 HG	9788589 PP	
34400 (V8)	67	9797319 HW	9792489 NP	NA	9793915 HG	NA
	77	9797319 HW	9792489 NP	NA	9793915 HG	NA
	87	9797319 HW	9792489 NP	NA	9793915 HG	NA
34800 (V8)	55	9787053 PE	SAME AS STANDARD CAR	9792802 HA	9792804 HC	9792804 HC
	65	9789092 PX		9792802 HA	9792804 HC	9792804 HC

USE HIGH RANGE SPRING ON L. H. SIDE OF CAR
AND LOW RANGE ON R. H. SIDE.

TEMPORARY USAGE:
WHEN BOTH SPRING RANGES ARE NOT AVAILABLE
USE SAME RANGE SPRING ON BOTH SIDES OF CAR.

TAPE IDENTIFICATION: HIGH LOAD RANGE - PLAIN IDENTIFICATION.
LOW LOAD RANGE - BLACK CIRCLE AROUND CODE LETTER.

FOR SPRING DETAIL SEE
DRAWING 9787042

DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	TITLE	CHART - REAR SPRING USAGE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
												31268 N	REVISED	66 JF	1968	4	100	A	400164
												DATE FEB. 21, 1967							
												DR. BY J. ROBERT							
												CHECKED DON MALKIN							
												APPR. [Signature]							
												APPR. [Signature]							

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

K. CARROLL, INC. MEM.

SERIES	ENGINE	TRANSMISSION	REAR AXLE RATIOS									
			PLAINS					PERFORMANCE				
			2.56 (G96)	2.78 (G95)	3.08 (G90)	3.23 (G91)	3.42 (G92)	3.91 (G88)	4.33 (G89)	4.33 (90-4)	4.66 (90-4)	
33100 F-85 33500 CUTLASS	260 L6 1 BBL (S) LOW AND L90 EXPORT	S-1, M14 M20 M21 M31 M31 WITH C60/Y72	S	S	A	A						
			S	A	A	A						
			S	A	A	A						
			S	A	A	A						
			S	A	A	A						
			S	A	A	A						
			S	A	A	A						
			S	A	A	A						
			S	A	A	A						
			S	A	A	A						
33200 F-85	350 2 BBL LOW (S) AND L90 EXPORT	S-1, M14 M20 M21 M31 M31 WITH C60/Y72	A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
33600 CUTLASS	350 2 BBL LOW (S) AND L90 EXPORT	S-1, M14 M20 M21 M31 M31 WITH C60/Y72	A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
34200 CUTLASS SUPREME	350 2 BBL LOW (L65) AND L90 EXPORT	S-1, M14 M20 M21 M31 M31 WITH C60/Y72	A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
			A	S	S	A	A	A				
34400 442	400 4 BBL HIGH (S)	M20 WITH C60/Y72 M21 M20 M21 M40 M40 M40 M40 M40 M40	A	S	A	A						
			A	S	A	A						
			A	S	A	A						
			A	S	A	A						
			A	S	A	A						
			A	S	A	A						
			A	S	A	A						
			A	S	A	A						
			A	S	A	A						
			A	S	A	A						
34800 VISTA CRUISER	350 4 BBL HIGH (L74)	M40 M40 M40 M40 M40 M40 M40 M40 M40 M40	S	A	A							
			S	A	A							
			S	A	A							
			S	A	A							
			S	A	A							
			S	A	A							
			S	A	A							
			S	A	A							
			S	A	A							
			S	A	A							
350 2 BBL LOW (S) AND L90 EXPORT	M40	M40	S	A	A							
			S	A	A							
400 4 BBL HIGH (L78)	M40	M40	S	A	A							
			S	A	A							
350 4 BBL HIGH (L74) AND L90 EXPORT	M40	M40	S	A	A							
			S	A	A							
400 4 BBL HIGH (L74) AND L90 EXPORT	M40	M40	S	A	A							
			S	A	A							
350 2 BBL LOW (S) AND L90 EXPORT	M40	M40	S	A	A							
			S	A	A							
400 4 BBL HIGH (L74) AND L90 EXPORT	M40	M40	S	A	A							
			S	A	A							

S - STANDARD
A - AVAILABLE
G80 MANDATORY
M14 NOT AVAILABLE ON 33635 MODEL
THIS AXLE RATIO IS 90% RECOMMENDED FOR CLASS I TRAILER HAULING.
THIS AXLE RATIO IS 23% RECOMMENDED FOR CLASS II TRAILER HAULING.

SM - FULLY SYNCHRONIZED 3 SPEED MANUAL TRANSMISSION (HEAVY DUTY)
M14 - FULLY SYNCHRONIZED 3 SPEED MANUAL TRANSMISSION (FLOOR SHIFT, HEAVY DUTY)
M20 - FULLY SYNCHRONIZED 4 SPEED MANUAL TRANSMISSION (FLOOR SHIFT, INVIDE RATIO)
M21 - FULLY SYNCHRONIZED 4 SPEED MANUAL TRANSMISSION (FLOOR SHIFT, CLOSE RATIO)
M31 - 2 SPEED JETWAY TRANSMISSION
M40 - 3 SPEED TURBO-HYDRAMATIC TRANSMISSION FOR V8

DEALER MUST NOT INSTALL
4.33 OR 4.66 RATIO IN
AIR CONDITIONED CARS

3.42 (G92), 3.91 (G88) OR 4.33 (G89) NOT AVAILABLE WITH C60/Y72
M21 NOT AVAILABLE WITH C60/Y72
G80 (LIMITED SLIP OPTION) AVAILABLE ON ALL RATIOS

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		SHEET 1 OF 6	
DATE	NOV 11 1968	FIRST USED	1968	OLDSMOBILE PRODUCT	MANUAL SEC. PAGE
DR. BY	BILL SCHMIDT	REF.		INFORMATION MANUAL	4 104
CHECKED	J. N. SIMS	SERIES	A	PART NO.	399060
APPR.	H. J. D. PHASE				

SERIES	ENGINE	TRANSMISSION	REAR AXLE RATIOS												
			POLICE												
			2.78 (B01)	2.78* (B07)	3.08 (B01)	3.08* (B07)	3.23 (B01)	3.23* (B07)	3.42 (B01)	3.42* (B07)	3.91 (B01)	3.91* (B07)			
33100 FBS & 33500 CUTLASS	350 2 BBL. LOW (S)	SM			S	S									
			M31			S	S	A	A						
		SM, M14	A	A	S	S	A	A	A	A					
			M20		S	S	A	A	A	A					
			M31	A	A	S	S	A	A	A	A				
	350 4 BBL. HIGH (L74) (K)	SM, M14	A	A	A	A	S	S	A	A	A				
			M20			S	S	A	A	A	A				
			M31	A	A	S	S	A	A	A	A				
		M40	A	A	A	A	S	S	A	A	A				
33200 FBS	400 4 BBL. HIGH (L77)	M14	A	A	A	A	A	A	S	S					
			M20			A	A	A	A	S	S				
			M21												
		M40	A	A	A	A	S	S	A	A	A				
	350 2 BBL. LOW (S)	SM, M14	A	A	S	S	A	A	A	A					
			M20			S	S	A	A	A	A				
			M31	A	A	S	S	A	A	A	A				
		M40	A	A	A	A	S	S	A	A	A				
33600 CUTLASS	400 4 BBL. HIGH (L77)	M14	A	A	A	A	A	A	S	S					
			M20			A	A	A	A	S	S				
			M21												
		M40	A	A	A	A	S	S	A	A	A				
	350 2 BBL. LOW (S)	SM, M14	A	A	S	S	A	A	A	A					
			M20			S	S	A	A	A	A				
			M31	A	A	S	S	A	A	A	A				
		M40	A	A	A	A	S	S	A	A	A				
34200 CUTLASS SUPREME	400 4 BBL. HIGH (L77)	SM, M14	A	A	S	S	A	A	A	A					
			M20			A	A	A	A	S	S				
			M31	A	A	S	S	A	A	A	A				
		M40	A	A	A	A	S	S	A	A	A				
	400 4 BBL. HIGH (L77)	M14	A	A	A	A	A	A	S	S					
			M20			A	A	A	A	S	S				
			M21												
		M40	A	A	A	A	S	S	A	A	A				
34800 VISTA CRUISER	400 4 BBL. HIGH (L77)	M40													

S - STANDARD
A - AVAILABLE
* - 39, 67, 69, 77, 87 ONLY

3.42 (G92) OR 3.91 (G88) NOT AVAILABLE WITH C60Y72
M21 NOT AVAILABLE WITH C60Y72

G80 (LIMITED SLIP OPTION) AVAILABLE ON ALL RATIOS

TITLE CHART - REAR AXLE USAGE - POLICE -										SHEET 2	
DATE NOV 11 1966		FIRST USED 1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 4		PAGE 105			
DR. BY K. LOVELL		CHECKED J. N. FIELDS		APPR. H. J. B. PAGE		SERIES A		PART NO. 399060			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM

SERIES	ENGINE	TRANSMISSION	REAR AXLE RATIOS					
			PLAINS	S			PERFORMANCE	
			2.56 (G96)	2.73 (G95)	3.07 (G90)	3.31 (G91)	3.42 (G92)	3.91 (G88)
33100 F-85 33500 CUTLASS	250 L6 1 BBL (S) AND L90 EXPORT	SM		S	A	A		
		M31		S	A	A		
		SM, M31 WITH C60			S	A		
		SM, M14		A	S	A	A	A
		M20			S	A	A	
		M21					S	A
		M31		S	A	A	A	A
		M31 WITH C60/Y72		S	A	A		
		SM, M14		A	S	A	A	A
		M20				S	A	A
33600 CUTLASS	350 2 BBL LOW (S) AND L90 EXPORT AND 350 4 BBL HIGH (L74)	SM, M14		A	S	A	A	A
		M20			S	A	A	
		M21					S	A
		M31		A	S	A	A	A
		M31 WITH C60/Y72		S	A	A		
		SM, M14		A	S	A	A	A
		M20				S	A	A
		M21					S	A
		M31		A	S	A	A	A
		M31 WITH C60/Y72		S	A	A		
34200 CUTLASS SUPREME	350 2 BBL LOW (L65) AND L90 EXPORT AND 350 4 BBL HIGH (S)	SM, M14		A	S	A	A	A
		M20			S	A	A	
		M21					S	A
		M31		A	S	A	A	A
		M31 WITH C60/Y72		S	A	A		
		M40		S	A	A		
		M14				A	S	A
		M20				A	A	S
		M20 WITH C60/Y72				A	S	
		M21				A	A	S
M40				S	A	A		
34400 442	400 4 BBL HIGH (S)	M21				A	A	S
		M40				S	A	A

S - STANDARD
 A - AVAILABLE
 * - OLDSMOBILE BUILT
 * - REAR AXLE ASSEMBLY
 * - M14 NOT AVAILABLE ON 3365 MODEL
 * - THIS AXLE RATIO IS 077 RECOMMENDED FOR CLASS I TRAILER HAULING.
 * - THIS AXLE RATIO IS 311 RECOMMENDED FOR CLASS II TRAILER HAULING.

SM - FULLY SYNCHRONIZED 3 SPEED MANUAL TRANSMISSION (HEAVY DUTY)
 M14 - FULLY SYNCHRONIZED 3 SPEED MANUAL TRANSMISSION (FLOOR SHIFT, HEAVY DUTY)
 M20 - FULLY SYNCHRONIZED 4 SPEED MANUAL TRANSMISSION (FLOOR SHIFT) (WIDE RATIO)
 M21 - FULLY SYNCHRONIZED 4 SPEED MANUAL TRANSMISSION (FLOOR SHIFT) (CLOSE RATIO)
 M31 - 2 SPEED JETAWAY TRANSMISSION
 M40 - 3 SPEED TURBO-HYDRAMATIC TRANSMISSION FOR V8
 C60 - AIR CONDITIONING
 Y72 - HEAVY DUTY ENGINE COOLING

3.42 (G92) OR 3.91 (G88) NOT AVAILABLE WITH C60/Y72

G80 (LIMITED SLIP OPTION) AVAILABLE ON ALL RATIOS

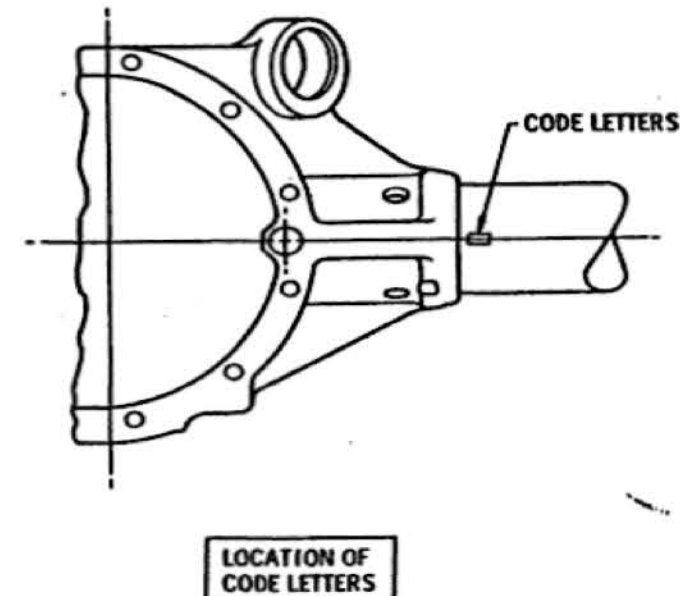
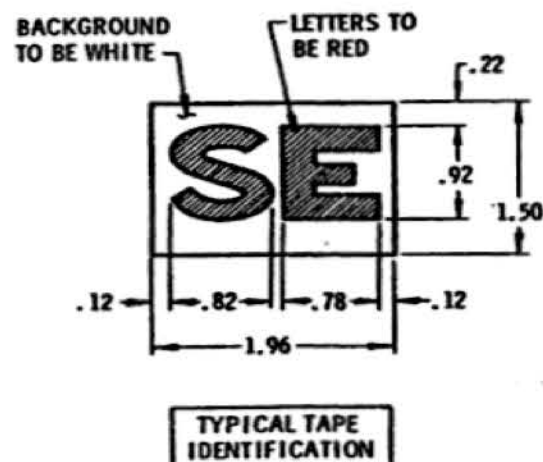
CHART FOR GROUP 96C - CANADIAN BUILT F-85 MODELS

TITLE CHART - REAR AXLE USAGE										SHEET 3	
DATE NOV 11 1966				FIRST USED 1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 4		PAGE 106	
DR. BY J. TRIPLETT				REF.		SERIES A		PART NO. 399060			
CHECKED J. N. FAMES				APPR. H. J. B. PAGE							
51267 F BEDFORD 5 REVISED											
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

EQUIPMENT	L.O. AXLE ASSY 399003	CODE	RATIO	AXLE SUB-ASSY SHOWN ON CHART 399020	DIFFERENTIAL CARRIER ASSY		AXLE SHAFT ASSY	BRAKE ASSEMBLY L.H.-R.H.	BRAKE DRUM ASSEMBLY
					ON CHART 394629	GEAR TEETH			
STANDARD TYPE DIFFERENTIAL (EXC. 4800 SERIES)									
EXC. J52, J55 (AC) (AD)	399004	R2	2.56	399021	399029	41-16	393906	5468393 5468394	M.W. 398456-R.H. 398457-L.H. OR K.H. 9788681
	399005	SA	2.78	399022	394630	39-14			
	399006	SC	3.08	399023	394631	40-13			
	399007	SE	3.23	399024	394632	42-13			
	399008	TL	3.42	399025	394633	41-12			
	399009	TN	3.91	399026	394634	43-11			
STANDARD TYPE DIFFERENTIAL (4800 SERIES)									
WITH J52, J55 (AC) (AD)	401327	R6	2.56	399021	399029	41-16	393906	5468794 5468795	M.W. 398456-R.H. 398457-L.H. OR K.H. 9788681
	401328	S2	2.78	399022	394630	39-14			
	401329	S4	3.08	399023	394631	40-13			
	401330	S6	3.23	399024	394632	42-13			
	401331	S8	3.42	399025	394633	41-12			
	401332	T2	3.91	399026	394634	43-11			
STANDARD TYPE DIFFERENTIAL (4800 SERIES)									
	400889	TA	2.78	400891	394630	39-14	401321	5468397 5468398	1368329
	399016	SM	3.08	399027	394631	40-13			
	399017	SO	3.23	399028	394632	42-13			



THE FOLLOWING LIST OF COMPONENT PARTS ARE REQUIRED FOR USE IN CONJUNCTION WITH AXLE SUB-ASSEMBLY OF SELECTED RATIO FROM THE ABOVE CHARTS TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE OR ASSEMBLY PLANTS.

PART NO.	PART NO.	QUANTITY	DESCRIPTION
EXCEPT 4800 SERIES	4800 SERIES		
SEE CHART	1	1	AXLE SUB ASSEMBLY - REAR (SELECT RATIO FROM CHART)
SEE CHART	1	1	BRAKE ASSEMBLY - REAR - L.
396379	396379	2	BRAKE ASSEMBLY - REAR - R.
9776453	414999	8	WHEEL BEARING - BRAKE TO AXLE
	1368360	*	BOLT - BRAKE TO AXLE (OPT)
2474997	2474997	8	NUT - BRAKE TO AXLE
SEE CHART	2	2	SHAFT ASSEMBLY - REAR AXLE
SEE CHART	2	2	DRUM ASSEMBLY - REAR BRAKE
358501	358501	4	NUT (ASSEMBLY PLANTS) - DRUM TO AXLE
(AA) 1382429	1382429	2	CABLE ASSEMBLY - REAR PARKING BRAKE
(AB) 1384690	1384690	*	CABLE ASSEMBLY - REAR PARKING BRAKE (OPTION)
9416029	9416029	4	NUT (SPRING) (LANSING) - DRUM TO AXLE
3820840	3820840	1	VENT ASSEMBLY - REAR AXLE

THIS REPRESENTS AXLE AS USED AT LANSING PLANT AND AS SHIPPED TO G.M.A.D. ASSEMBLY PLANTS. FOR ASSEMBLY INFORMATION, SEE 399003. MANUFACTURER'S IDENTIFICATION MUST APPEAR ON THIS PART. LOCATION TO BE APPROVED BY THE ENGINEERING DEPARTMENT. OMISSION REQUIRES APPROVAL OF PURCHASING DIV.

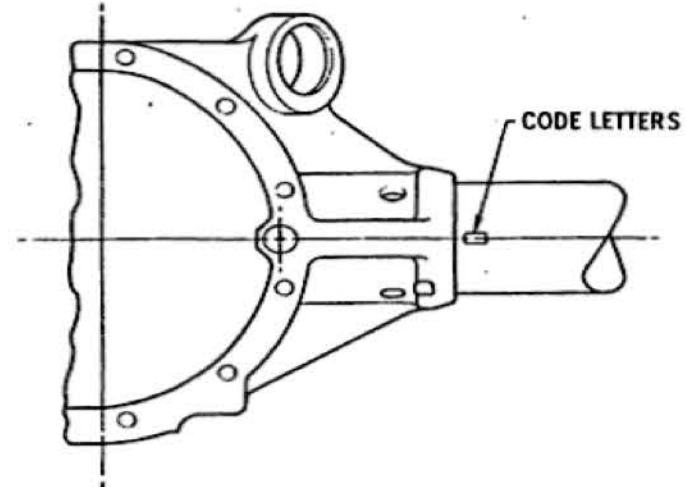
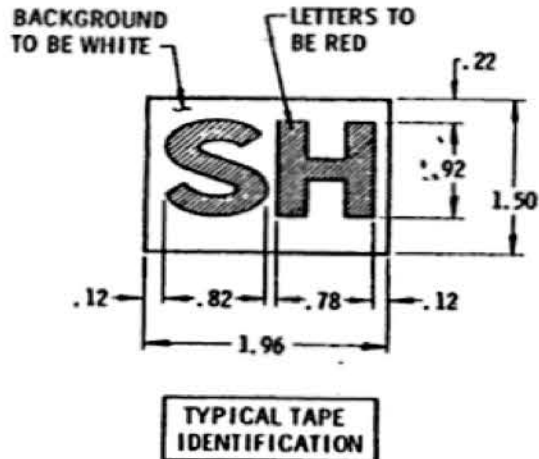
PRODUCTION SAMPLE TO BE TESTED AND APPROVED BY PRODUCT ENGINEERING FOR OLDSMOBILE PARTS.

SHEET 4

67 AD ₂	JL6 REMOVED	KL J	6-5-67	AB	CABLE ASSY ADDED	JC P/M	6-5-67	W2	WITH J55 REMOVED	JC P/M	6-5-67	W2	EXC. J55 REMOVED	TITLE	CHART-REAR AXLE USAGE	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	4	PAGE	107			
7-27 AD ₂	JL6 ADDED	KL J	6-5-67	Y	WITH J55 ADDED	JC P/M	5-23-67	U2	EXC. J55 REMOVED	JC P/M	5-23-67	T	WITH J52 ADDED	DATE	NOV. 9, 1966	DR. BY	B. R. PARKER	CHECKED	J. V. FINLEY	APPR.	H. J. B. PAGE	SERIES	A	PART NO.	399060

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

EQUIPMENT	L.O. AXLE ASSY 399003	CODE	RATIO	DIFFERENTIAL CARRIER ASSY		AXLE SHAFT ASSY	BRAKE ASSY L.H.-R.H.	BRAKE DRUM ASSY
				ON CHART 399020	GEAR TEETH			
LIMITED SLIP DIFFERENTIAL (EXC. 4800 SERIES)								
EXC. J52, J55 (AE) (AG)	399030	R3	2.56	399048	399058	41-16	393906	M.W. 398456-R.H. 398457-L.H. OR K.H. 9788681
	399031	SB	2.78	399049	394662	39-14		
	399032	SD	3.08	399050	394663	40-13		
	399034	SF	3.23	399051	394664	42-13		
	399035	TM	3.42	399053	394665	41-12		
	399036	TO	3.91	399054	394666	43-11		
	400225	TW	4.33	400226	400227	39-9		
LIMITED SLIP DIFFERENTIAL (4800 SERIES)								
WITH J52, J55 (AF) (AG)	401333	R7	2.56	399048	399058	41-16	393906	M.W. 398456-R.H. 398457-L.H. OR K.H. 9788681
	401334	S3	2.78	399049	394662	39-14		
	401335	S5	3.08	399050	394663	40-13		
	401336	S7	3.23	399051	394664	42-13		
	401337	S9	3.42	399053	394665	41-12		
	401338	T3	3.91	399054	394666	43-11		
	401423	TY	4.33	400226	400227	39-9		
LIMITED SLIP DIFFERENTIAL (4800 SERIES)								
	400892	TB	2.78	400894	394662	39-14	401321	5468397 5468398
	399044	SN	3.08	399056	394663	40-13		
	399045	SP	3.23	399057	394664	42-13		



THE FOLLOWING LIST OF COMPONENT PARTS ARE REQUIRED FOR USE IN CONJUNCTION WITH AXLE SUB-ASSEMBLY OF SELECTED RATIO FROM THE ABOVE CHARTS TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE OR ASSEMBLY PLANTS.

PART NO.	PART NO.	QUANTITY	DESCRIPTION
EXCEPT 4800 SERIES	4800 SERIES		
396379	396379	1	AXLE SUB ASSEMBLY - REAR (SELECT RATIO FROM CHART)
9776453	414999	1	BRAKE ASSEMBLY - REAR - L.
2474997	1368360	1	BRAKE ASSEMBLY - REAR - R.
SEE CHART	2474997	2	GASKET - WHEEL BEARING
SEE CHART	358501	8	BOLT - BRAKE TO AXLE
396379	1368360	*	BOLT - BRAKE TO AXLE (OPT)
9776453	2474997	8	NUT - BRAKE TO AXLE
2474997	2474997	2	SHAFT ASSEMBLY - REAR AXLE
SEE CHART	358501	2	DRUM ASSEMBLY - REAR BRAKE
SEE CHART	1382429	4	NUT (ASSEMBLY PLANTS) - DRUM TO AXLE
358501	1382429	2	CABLE ASSEMBLY - REAR PARKING BRAKE
1382429	1384690	*	CABLE ASSEMBLY - REAR PARKING BRAKE (OPTION)
1384690	9416029	4	NUT (SPRING)(LANSING) - DRUM TO AXLE
9416029	9416029	1	VENT ASSEMBLY - REAR AXLE
3820840	3820840		

THIS REPRESENTS AXLE AS USED AT LANSING PLANT AND AS SHIPPED TO G.M.A.D. ASSEMBLY PLANTS. FOR ASSEMBLY INFORMATION, SEE 399003. MANUFACTURER'S IDENTIFICATION MUST APPEAR ON THIS PART. LOCATION TO BE APPROVED BY THE ENGINEERING DEPARTMENT. OMISSION REQUIRES APPROVAL OF PURCHASING DIV.

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

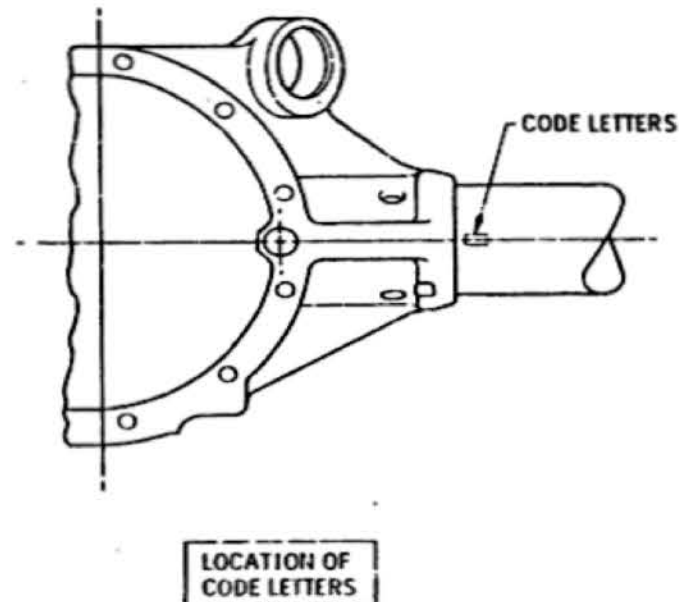
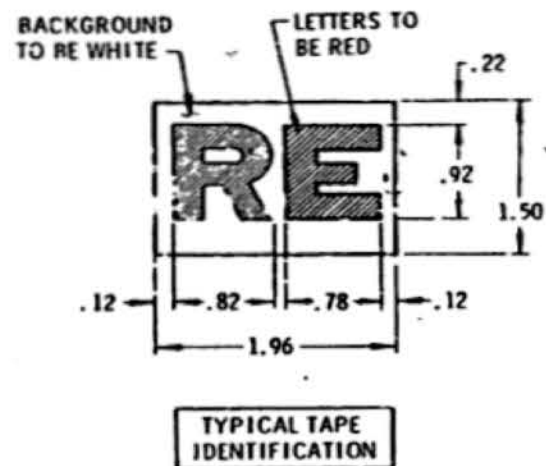
10/17/66 7.3P 6-5-66 6-5-66 DATE		JLG REMOVED WITH JLG ADDED JLG ADDED BLE ASSY ACOLD 387621	KL JT 6-5-67 AB WAS 385186 JE 6-5-67 AA WITH J55 ADDED JK 6-5-67 Z EXC. J55 ADDED JC 6-5-67 Y2 WITH J56 REMOVED JK 6-5-67 X2 EXC. J56 REMOVED	DR. CK. DATE SYN	REVISION	DR. CK. DATE SYN	REVISION	DR. CK. DATE SYN	REVISION	DR. CK. DATE SYN	REVISION	DR. CK. DATE SYN	REVISION	DR. CK. DATE SYN	REVISION	TITLE CHART-REAR AXLE USAGE	DATE NOV. 11, 1966	FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 4	PAGE 108	SERIES A	PART NO. 399060
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OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

8 CARROLL, INC. 87000

EQUIPMENT	L.O. AXLE ASSY. 1832900	CODE	RATIO	AXLE SUB-ASSY SHOWN ON CHART		DIFFERENTIAL CARRIER ASSY		AXLE SHAFT ASSY	BRAKE ASSY L.H.-R.H.	BRAKE DRUM ASSY	
				⚠			GEAR TEETH				
STANDARD DIFFERENTIAL											
STANDARD EXC. J52 (H) (K) ⚠	400847	R8	2.56		1397003	41-16		1384242	1832769 1832770	1386562 (N)	
	399277	RA	2.73		1395969	41-15					
	399278	RC	3.07		1395968	43-14					
	399279	RE	3.31		1395970	43-13					
	399008	TL	3.42	399025	394633	41-12		397534	(J) 5468393 5468394	M. W. 398456 RH 398457 LH OR K. H. 9788681	(M) (L)
	399009	TN	3.91	399026	394634	43-11					
WITH J52 (H) (K) ⚠	401408	TR	2.56		1397003	41-16		1384242		1386562 (N)	
	401409	TT	2.73		1395969	41-15					
	401410	T4	3.07		1395968	43-14					
	401411	T6	3.31		1395970	43-13					
	401331	S8	3.42	399025	394633	41-12		397534	5468794 5468795	M. W. 398456 RH 398457 LH OR K. H. 9788681	(M) (L)
	401332	T2	3.91	399026	394634	43-11					
LIMITED SLIP DIFFERENTIAL											
STANDARD EXC. J52 (H) (K) ⚠	400848	R9	2.56		1397004	41-16		1384242	1832769 1832770	1386562 (N)	
	399281	RB	2.73		1395972	41-15					
	399282	RD	3.07		1395971	43-14					
	399283	RF	3.31		1395973	43-13					
	399035	TM	3.42	399053	394665	41-12		397534	(J) 5468393 5468394	M. W. 398456 RH 398457 LH OR K. H. 9788681	(M) (L)
	399036	TO	3.91	399054	394666	43-11					
WITH J52 (H) (K) ⚠	401412	TH	2.56		1397004	41-16		1384242		1386562 (N)	
	401413	TJ	2.73		1395972	41-15					
	401414	T5	3.07		1395971	43-14					
	401415	T7	3.31		1395973	43-13					
	401337	S9	3.42	399053	394665	41-12		397534	5468794 5468795	M. W. 398456 RH 398457 LH OR K. H. 9788681	(M) (L)
	401338	T3	3.91	399054	394666	43-11					



THE FOLLOWING LIST OF COMPONENT PARTS ARE REQUIRED FOR USE IN CONJUNCTION WITH AXLE SUB-ASSEMBLY OF SELECTED RATIO FROM THE ABOVE CHARTS TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE.

PART NO.	QUANTITY	DESCRIPTION
SEE CHART	1	AXLE SUB ASSEMBLY - REAR (SELECT RATIO FROM CHART)
SEE CHART	1	BRAKE ASSEMBLY - REAR - L.
SEE CHART	1	BRAKE ASSEMBLY - REAR - R.
186644	8	BOLT - FLANGE PLATE TO AXLE
103321	8	WASHER (LOCK) - FLANGE PLATE TO AXLE
103026	8	NUT - FLANGE PLATE TO AXLE
7451405	2	BEARING - REAR WHEEL
3832418	2	SEAL ASSY - REAR WHEEL BEARING
SEE CHART	2	SHAFT ASSEMBLY - REAR AXLE
3833322	2	LOCK - AXLE SHAFT
SEE CHART	2	DRUM ASSEMBLY - REAR BRAKE
3656898	6	NUT (SPRING) - DRUM TO AXLE
1382429	2	CABLE ASSEMBLY - REAR PARKING BRAKE
3820840	1	VENT ASSEMBLY - REAR AXLE

THIS REPRESENTS AXLE AS USED BY G. M. OF CANADA (OSHAWA). FOR ASSEMBLY INFORMATION, SEE 1832900. MANUFACTURER'S IDENTIFICATION MUST APPEAR ON THIS PART. LOCATION TO BE APPROVED BY ENGINEERING DEPARTMENT. OMISSION REQUIRES APPROVAL OF PURCHASING DIVISION.

⚠ THE REQUIRED COMPONENT PARTS TO COMPLETE THIS AXLE ASSEMBLY ARE SHOWN ON SHEETS 4 AND 5. (LANSING BUILT ASSEMBLY)

⚠ SYMBOL IN COLUMN INDICATES UNIT NOT BUILT IN CANADA

SHEET 6

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

TITLE CHART-REAR AXLE USAGE (G. M. OF CANADA-OSHAWA)

DATE NOV 16, 1966

DR. BY BOBBY PARKER

FIRST USED

1968

OLDSMOBILE PRODUCT INFORMATION MANUAL

MANUAL SECTION

4

PAGE

109

CHECKED

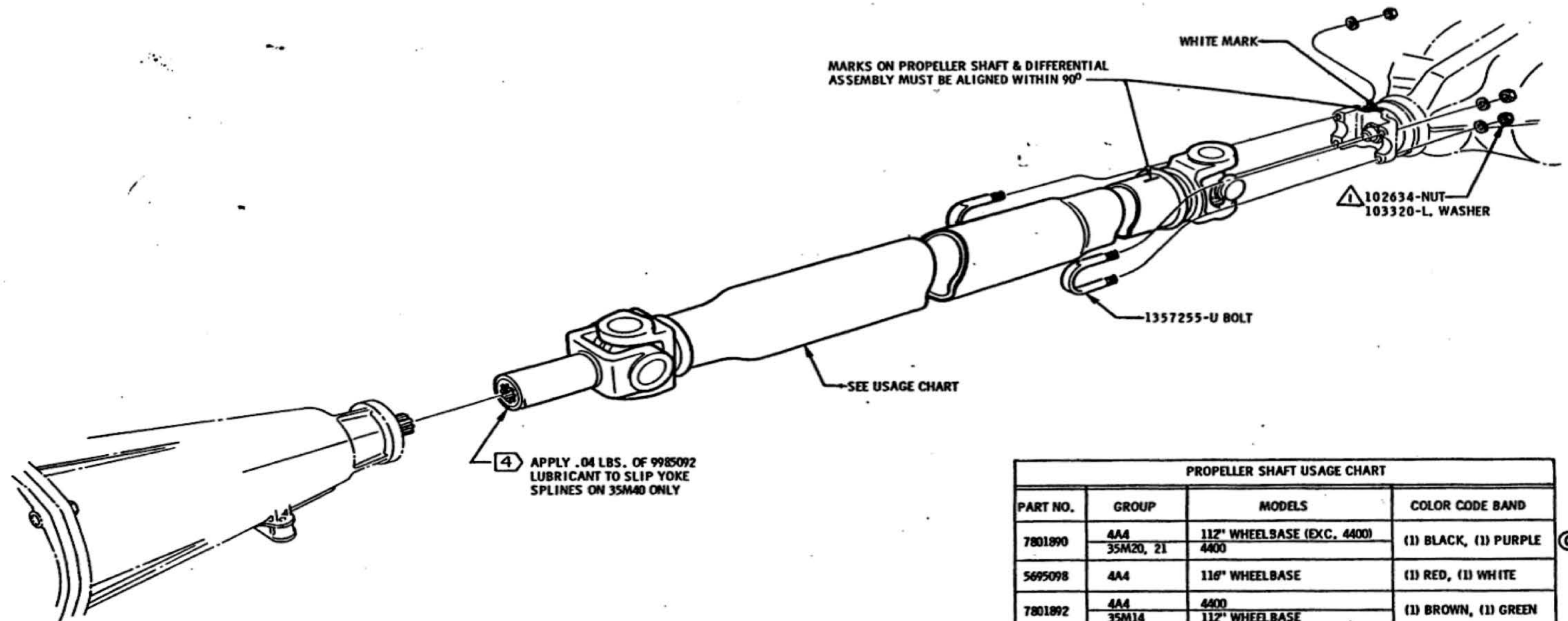
APPR. H. J. B. PAGE

SERIES

A

PART NO.

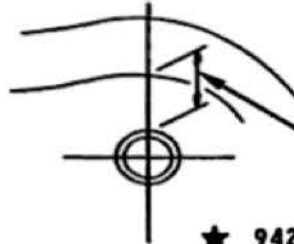
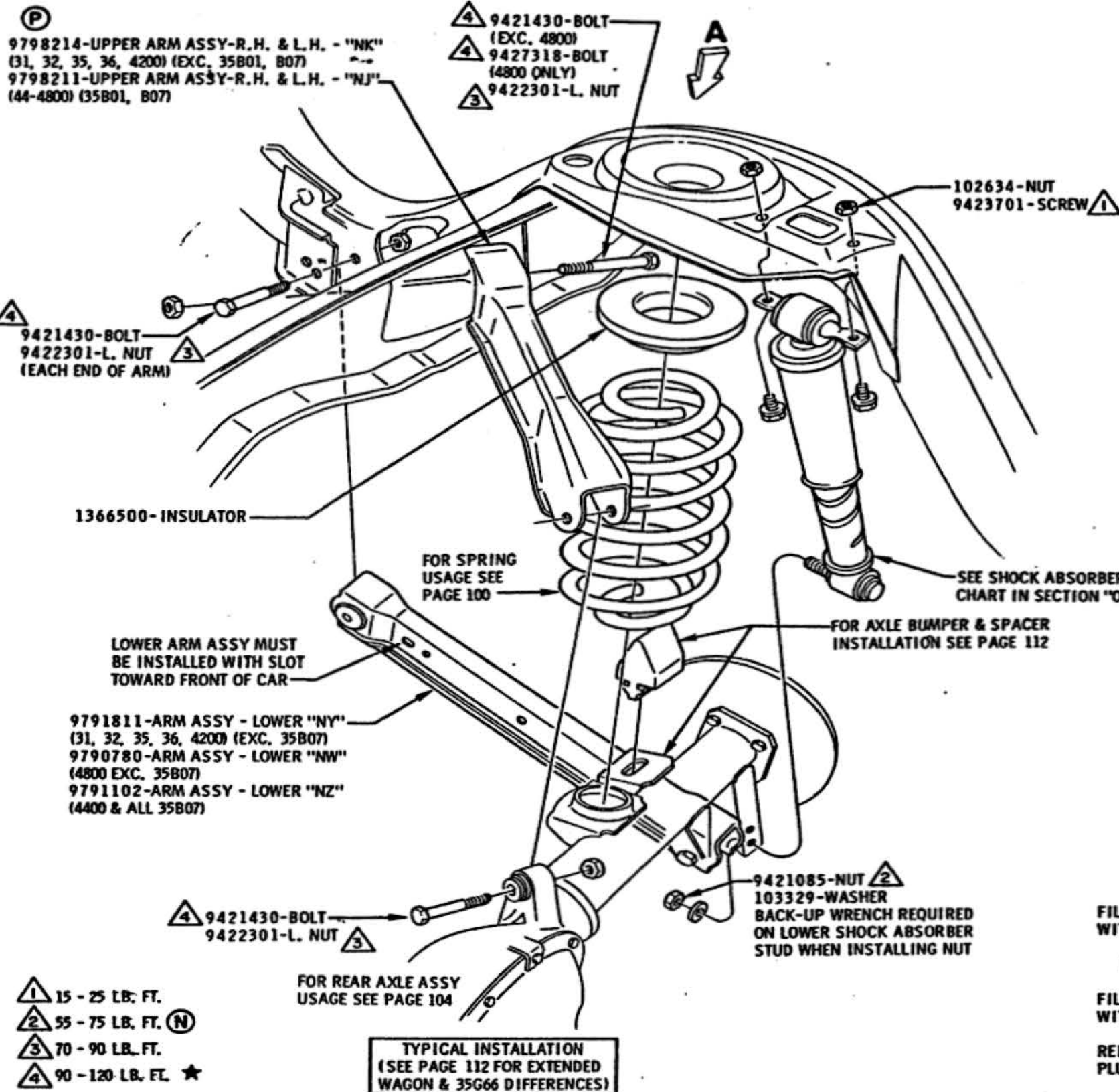
399060



PROPELLER SHAFT USAGE CHART			
PART NO.	GROUP	MODELS	COLOR CODE BAND
7801890	4A4	112" WHEELBASE (EXC. 4400)	(1) BLACK, (1) PURPLE
	35M20, 21	4400	
5695098	4A4	116" WHEELBASE	(1) RED, (1) WHITE
7801892	4A4	4400	(1) BROWN, (1) GREEN
	35M14	112" WHEELBASE	
5695094	4A4	4800	(1) RED, (1) BLACK
5695505	35M14	116" WHEELBASE	(1) RED, (1) YELLOW
7801891	35M31, 35M33 & 35M34	112" WHEELBASE	(1) YELLOW, (1) BROWN
7800855		116" WHEELBASE	
7803983	35M40	4800	(1) WHITE, (1) BLUE
7801893	35M40	112" WHEELBASE	(1) BROWN, (1) BLUE
7801163	35M40	116" WHEELBASE	(1) BROWN, (2) GREEN

12 - 16 LB. FT.

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	SERIES	PART NO.
					10-25-67	D	COLOR CODES REV.	J13	P22						PROPELLER SHAFT	1968		4	110	A	398162
					10-19-67	C	COLOR CODE REV.	J13	P22						DATE JANUARY 11, 1967						
					6-23-67	B	WAS 7800963	J13	P22						DR. BY LYNN R. TOWNS						
					2-6-67	A	CHART REVISED	J13	P22						CHECKED <i>M. Barnhart</i>						
															APPR. <i>J. R. Leonard</i>						
															APPR. <i>J. Guadalupe</i>						



PRODUCTION SETTING

TIGHTEN UPPER AND LOWER CONTROL ARM BUSHING BOLTS WITH SPRING COMPRESSED SO TOP OF AXLE TO FRAME IS: 4.68 ± .25 EXC. S.W., 6.17 ± .25 S.W., AND 5.50 ± .25 EXT. WAGON.

★ 9421430-BOLTS MUST BE INSTALLED IN DIRECTION SHOWN. EXCEPTION: UPPER ARM FRONT POSITION BOLT DIRECTION OPTIONAL ON ALL MODELS EXC. 4800. ON 4800 MODEL, BOLT MUST BE INSTALLED IN DIRECTION SHOWN. TORQUE NUTS OR BOLTS AT ASSEMBLY. ANY RETORQUE SUBSEQUENT TO THE INITIAL APPLICATION MUST BE APPLIED TO THE SAME END AS TORQUED INITIALLY.

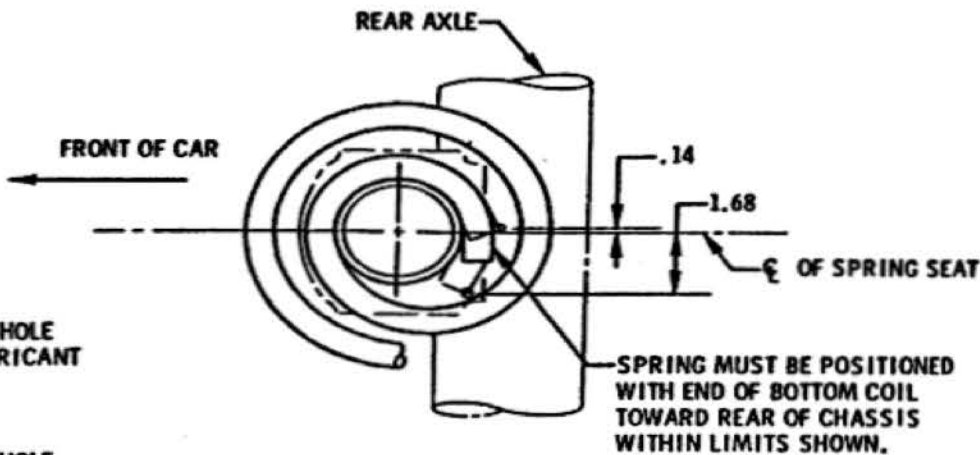
FOR SPRING USAGE SEE PAGE 100

SEE SHOCK ABSORBER USAGE CHART IN SECTION 'O'

FOR AXLE BUMPER & SPACER INSTALLATION SEE PAGE 112

LOWER ARM ASSY MUST BE INSTALLED WITH SLOT TOWARD FRONT OF CAR

TYPICAL INSTALLATION (SEE PAGE 112 FOR EXTENDED WAGON & 35G66 DIFFERENCES)



STANDARD DIFFERENTIAL
FILL TO BOTTOM OF FILLER PLUG HOLE WITH 3.69 PINTS OF 9985035 LUBRICANT

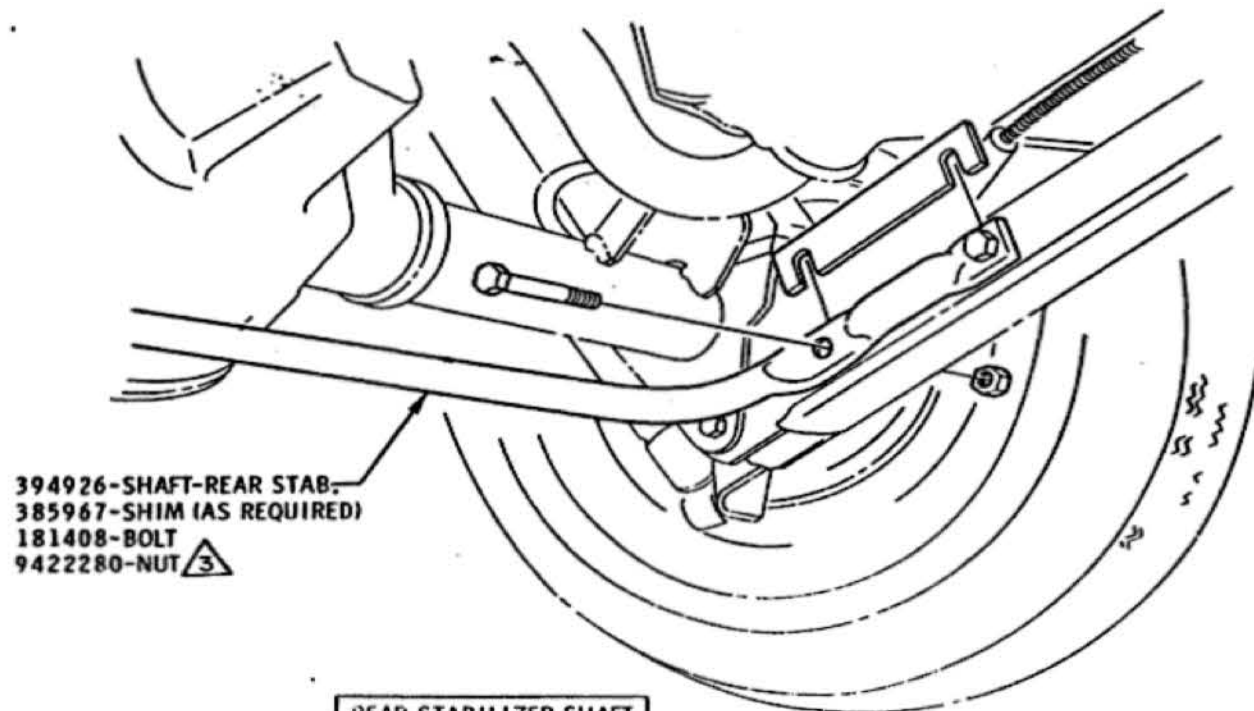
LIMITED SLIP DIFFERENTIAL
FILL TO BOTTOM OF FILLER PLUG HOLE WITH 3.69 PINTS OF 9985169 LUBRICANT

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

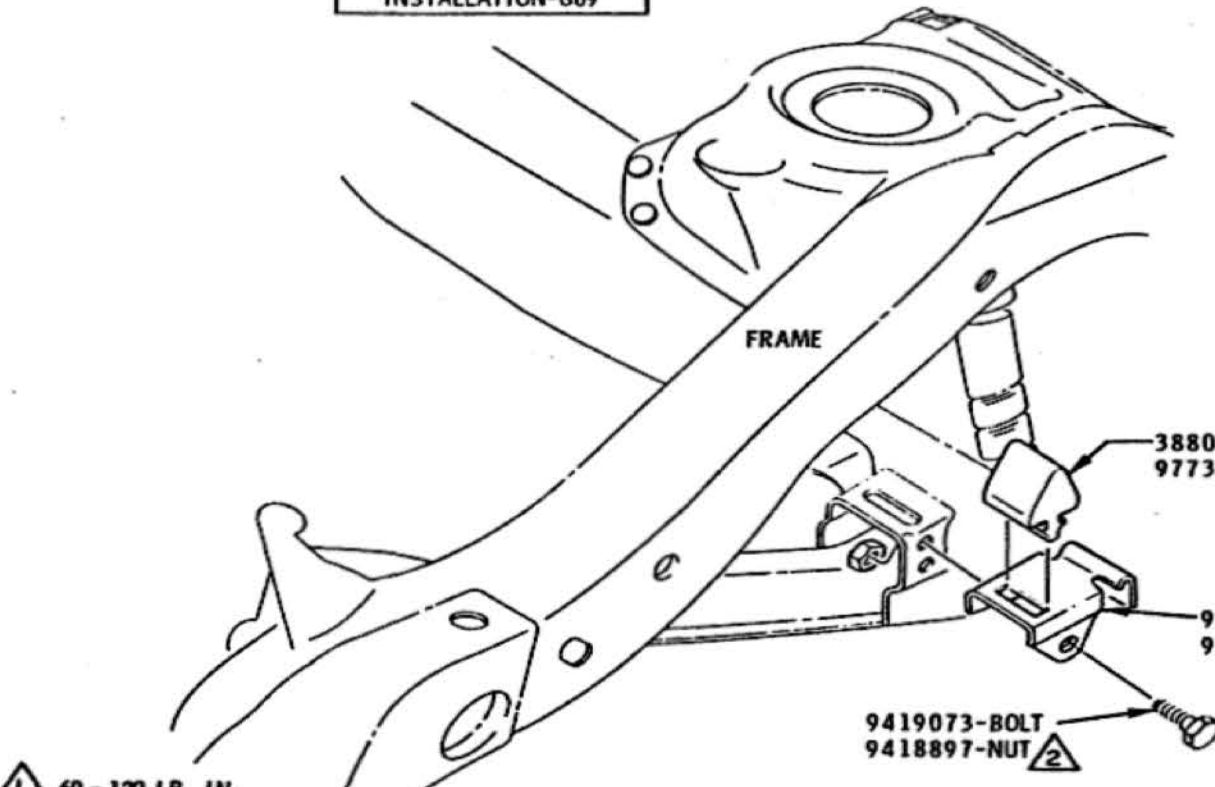
VIEW A
BOTH SIDES

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
4-17-68	P	PART NO'S REVISED	J13	MTS	8-23-67	J	NOTE REMOVED	MTS	MTS	7-27-67	E	DIMENSIONS REVISED	MTS	MTS										
2-29-68	N	55-75 WAS 30-60 LB.FT.	DR	MTS	8-23-67	H	NOTES REVISED	MTS	MTS	7-6-67	D	OPTIONS ADDED	MTS	MTS										
2-7-68	M	L.H. PART NOS. ADDED	UR	MTS	8-16-67	G	NOTE REVISED	MTS	MTS	6-16-67	C2	USAGE & CODES REVISED	MTS	MTS										
1-13-68	L	OPT. PART NOS. REMOVED	MTS	MTS	7-27-67	F	FILL NOTE REVISED	MTS	MTS	4-21-67	B	NOTE ADDED	MTS	MTS										
										4-12-67	A	NOTE REVISED	MTS	MTS										

REAR SUSPENSION		DATE JANUARY 16, 1967	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
		DR. BY LYNN R. TOWNS	1968		4	111
		CHECKED MT Barnhart	REF. 4D 4E	SERIES	A	PART NO.
		APPR. J.R. Sement	35657			398162
		APPR. G.A. Sement				

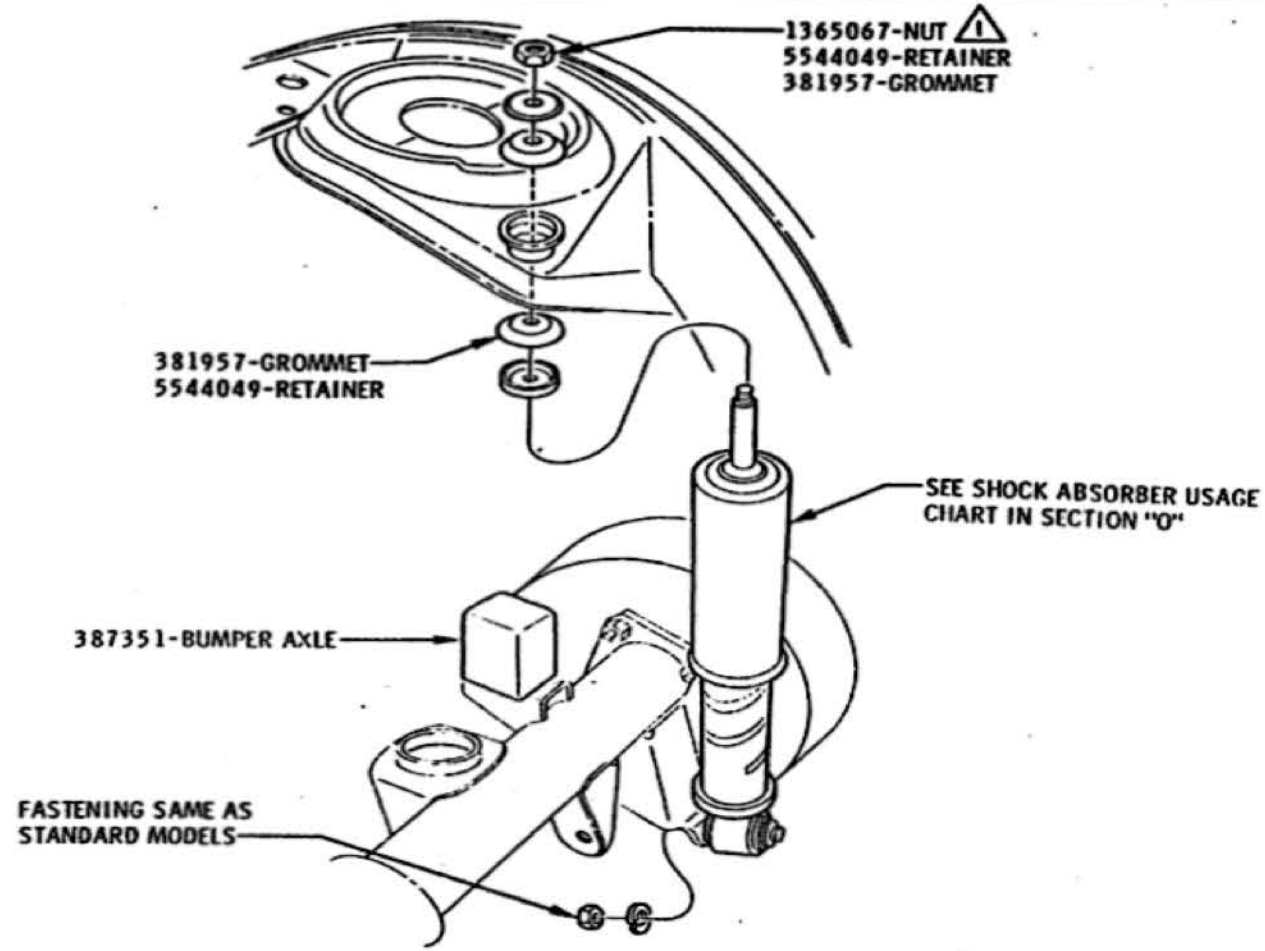


REAR STABILIZER SHAFT
INSTALLATION-G69



AXLE BUMPER & SPACER
INSTALLATION (EXC. EXT. S.W.)

- ① 60 - 120 LB. IN.
- ② 35 - 55 LB. FT.
- ③ 45 - 55 LB. FT.

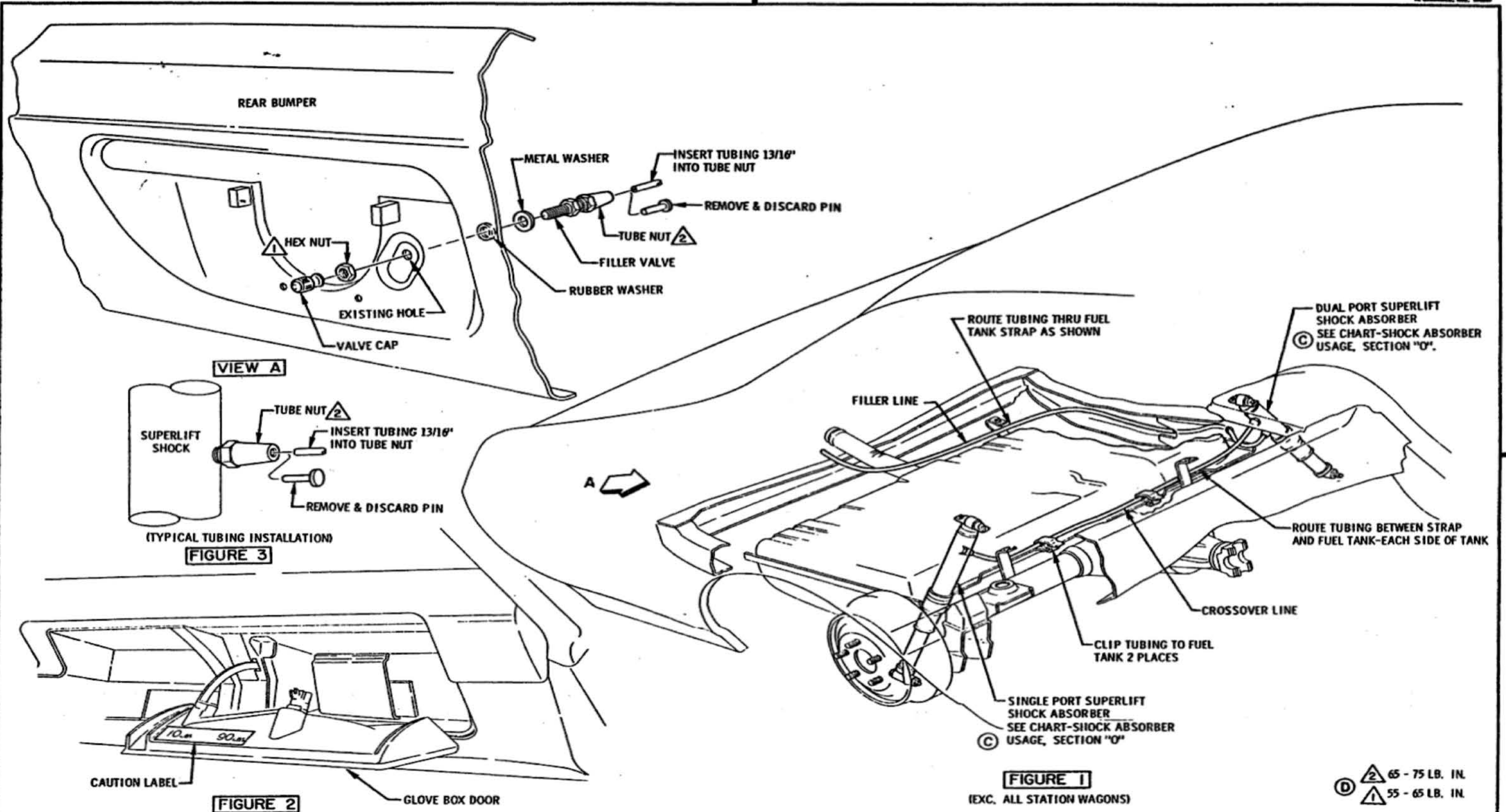


SHOCK ABS. & BUMPER INSTALLATION
EXTENDED STATION WAGONS

TITLE										STABILIZER, AXLE BUMPER & EXT. WAGON					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
					7-21-67	C	9773073-BUMPER ADDED								
					7-6-67	B	WAS 9790377-B								
					4-24-67	A	VIEW REMOVED								

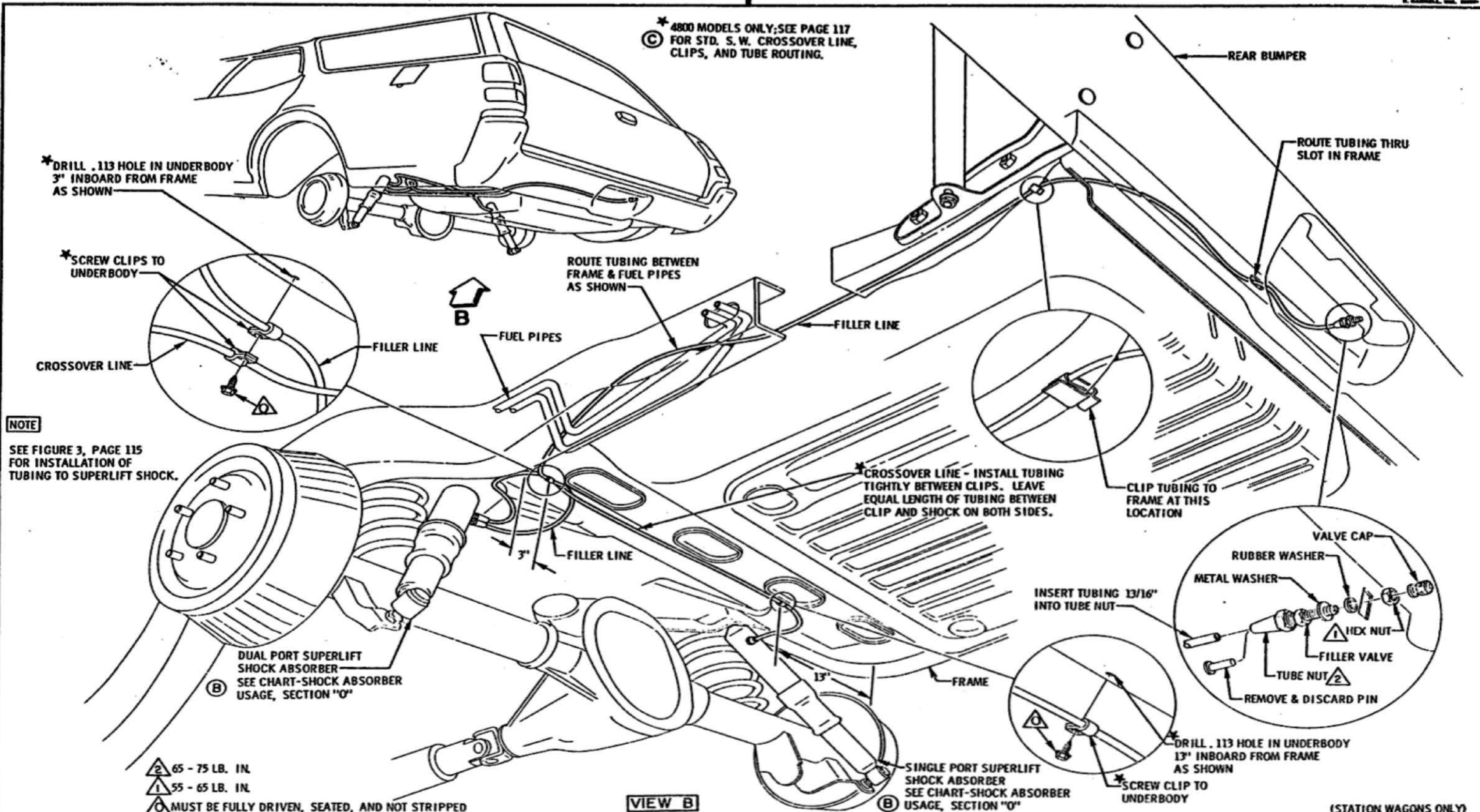
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

TITLE	STABILIZER, AXLE BUMPER & EXT. WAGON
DATE	JANUARY 13, 1967
DR.	BY LYNN R. TOWNS
CHECKED	M321v. lart
APPR.	
FIRST USED	1968
OLDSMOBILE PRODUCT INFORMATION MANUAL	
MANUAL SECTION	4
PAGE	112
SERIES	A
PART NO	398162



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
8-11-67	D	TORQUES ADDED														35G66 SHOCK ABSORBER	1968		4	115
6-26-67	C ₂	REFERENCE NOTE ADDED														DATE APRIL 21, 1967				
6-13-67	B	REDRAWN														DR. BY W.E. MASON				
5-19-67	A ₂	REVISED														CHECKED 1973 amhart				
																APPR. F.a. Sullivan				
																	REF.	SERIES	PART NO.	
																		A	398162	

* 4800 MODELS ONLY; SEE PAGE 117 FOR STD. S.W. CROSSOVER LINE, CLIPS, AND TUBE ROUTING.



												TITLE		35G66 SHOCK ABSORBER					
												DATE	MAY 19, 1967		FIRST USED	1968			
												DR. BY	H.C. MASON		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION	4	
												CHECKED	M.P. GIBSON		SERIES		A		
												APPR.	M.P. GIBSON		PART NO.		398162		
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.				
					8-11-67	C	NOTE ADDED												
					6-26-67	B2	REFERENCE NOTE ADDED												
					6-13-67	A	REVISION												

GENERAL INSTRUCTIONS

1. GUARD AGAINST KINKING NYLON TUBING, KINKED LINES WILL RESULT IN TUBING FAILURE.
2. AT EVERY PLUMBING CONNECTION, USE THE FOLLOWING PROCEDURE TO ASSEMBLE THE 1/8" DIAMETER BLACK TUBING PER FIGURE 3:
 - A. MARK TUBING WITH PENCIL 13/16" FROM END (SAME LENGTH AS TUBE NUT)
 - B. PULL PLASTIC PIN FROM END OF TUBE NUT AND DISCARD.
 - C. WITHOUT LOOSENING TUBE NUT, PUSH TUBING INTO TUBE NUT TO PENCIL MARK.
 - D. TIGHTEN TUBE NUT WITH WRENCH.
3. ATTACH "CAUTION" LABEL TO INSIDE OF GLOVE BOX DOOR PER FIGURE 2.
4. PLACE OWNERS GUIDE IN GLOVE BOX. (A)

SUPERLIFT INSTALLATION

1. RAISE CAR ON A HOIST THAT WILL KEEP REAR WHEELS IN NORMAL RELATIONSHIP WITH CAR BODY. IF FRAME LIFTING TYPE HOIST IS USED, PLACE STANDS UNDER REAR AXLE TO MAINTAIN NORMAL WHEEL TO BODY RELATIONSHIP.
2. REMOVE REAR SHOCKS, RETAIN ATTACHING PARTS FOR INSTALLING SUPERLIFTS.
3. INSTALL DUAL PORT SUPERLIFT ON LEFT SIDE OF CAR AND SINGLE PORT UNIT ON RIGHT SIDE. PORTS WILL BE FACING INWARD TO CENTER OF CAR. TO AVOID TWISTING RUBBER SLEEVE, DO NOT ROTATE FREE END OF SUPERLIFT AFTER ONE END HAS BEEN ATTACHED.

FILLER VALVE INSTALLATION

1. **ALL SEDANS AND COUPES**
 - A. ATTACH FILLER VALVE TO FILLER LINE PER VIEW A.
 - B. INSERT FILLER VALVE THRU DEPRESSED HOLE IN BUMPER BEHIND LICENSE PLATE DOOR AND ATTACH TO BUMPER PER VIEW A.
2. **ALL STATION WAGONS**
 - A. REMOVE LICENSE PLATE. REMOVE R.H. PLASTIC NUT FROM BUMPER AND DISCARD.
 - B. ATTACH FILLER VALVE TO FILLER LINE PER VIEW B.
 - C. REPLACE LICENSE PLATE AND INSTALL FILLER VALVE THRU UPPER R.H. HOLE IN BUMPER AND LICENSE PLATE AND ATTACH HEX NUT PER VIEW B.

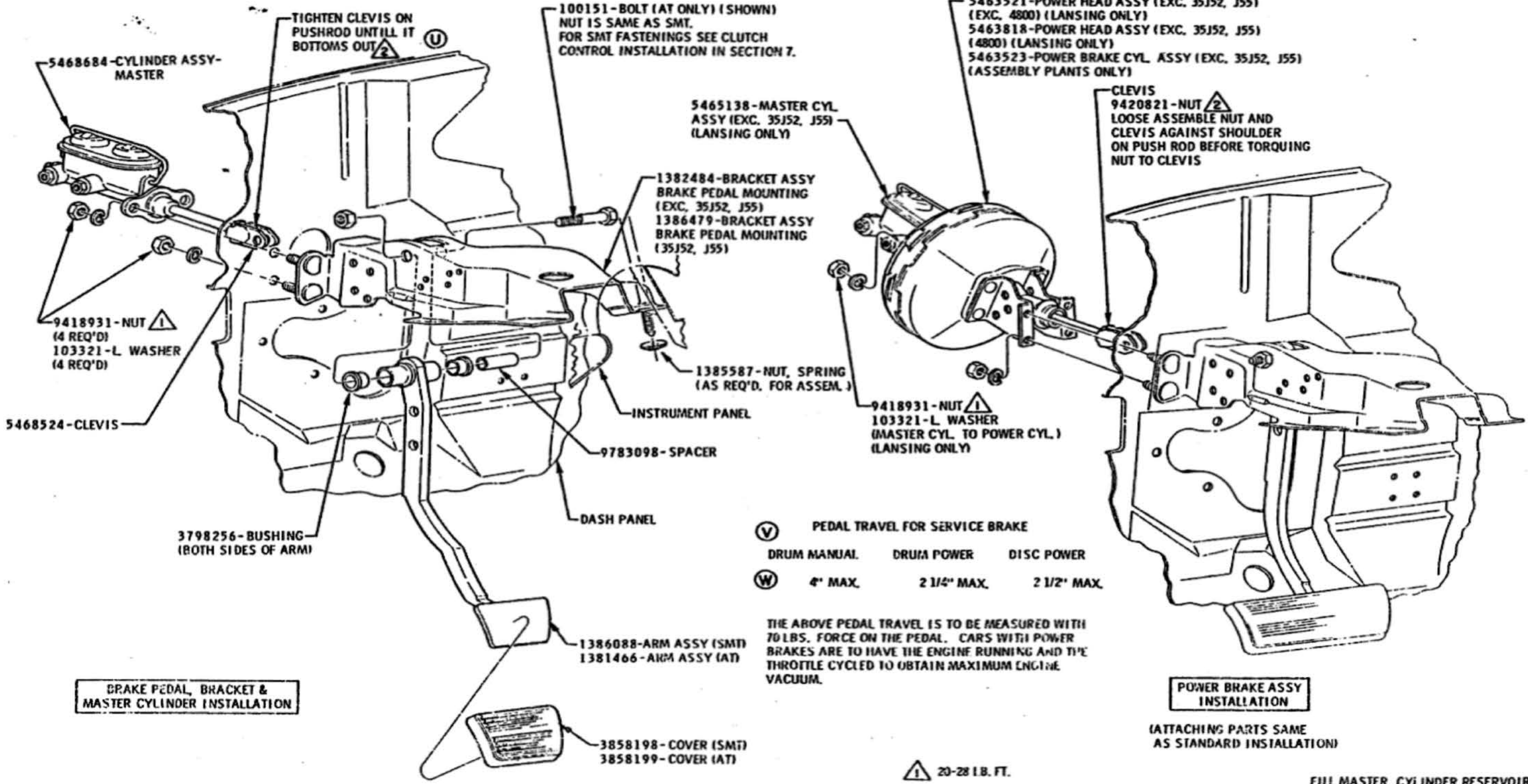
CROSSOVER & FILLER LINE INSTALLATION

1. **ALL SEDANS & COUPES**
 - A. FOR CROSSOVER LINE CUT A 37" LENGTH OF NYLON TUBING.
 - B. ROUTE CROSSOVER LINE BEHIND FUEL TANK SUPPORT STRAPS & CLIP TO EDGE OF TANK WITH TWO METAL PUSH-ON CLIPS PER FIGURE 1. ATTACH ENDS OF CROSSOVER LINE TO SUPERLIFT AIR PORTS PER FIGURE 3. ON THE DUAL PORT SUPERLIFT, ATTACH CROSSOVER LINE TO TOP PORT PER FIGURE 3.
 - C. FOR FILLER LINE CUT A 65" LENGTH OF NYLON TUBING.
 - D. ROUTE FILLER LINE TUBING PER FIGURE 1 THRU FRAME INNER RAIL, BACK TO REAR OF FUEL TANK, PASSING BETWEEN FUEL TANK SUPPORT STRAP AND UNDERBODY AND OVER FUEL FILLER NECK TO FILLER VALVE.
 - E. ADJUST CROSSOVER AND FILLER LINES FOR MAXIMUM CLEARANCE FROM TAIL PIPE. LEAVE A GENEROUS LOOP AT SUPERLIFT PORTS TO ALLOW FOR SUPERLIFT MOVEMENT WITH AXLE JOUNCE. (A)
2. **ALL STATION WAGONS**
 - A. FOR CROSSOVER LINE CUT A 47 1/2" LENGTH OF NYLON TUBING.
 - B. ROUTE & CLIP CROSSOVER LINE TO UNDERBODY PER VIEW B. ATTACH ENDS OF CROSSOVER LINE TO SUPERLIFT AIR PORTS PER FIGURE 3. ON THE DUAL PORT SUPERLIFT ATTACH CROSSOVER LINE TO TOP PORT PER VIEW B.
 - C. FOR FILLER LINE CUT AN 80" LENGTH OF NYLON TUBING.
 - D. ROUTE FILLER LINE TUBING PER VIEW B THRU NYLON CLIP ON UNDERBODY AND ALONG FRAME SIDE RAIL TO REAR OF CAR. CLIP TUBING TO SIDE RAIL USING METAL PUSH-ON CLIP PER VIEW B. CONTINUE ROUTING TUBING ALONG REAR OF FRAME TO FILLER VALVE.
 - E. ADJUST CROSSOVER AND FILLER LINES FOR MAXIMUM CLEARANCE FROM TAIL PIPE. LEAVE A GENEROUS LOOP AT SUPERLIFT PORTS TO ALLOW FOR SUPERLIFT MOVEMENT WITH AXLE JOUNCE.

LEAK CHECK

1. FILL SUPERLIFT SYSTEM THROUGH FILLER VALVE WITH AIR TO 100 PSI PRESSURE.
2. CHECK ALL FITTINGS FOR LEAKS WITH GAS LEAK DETECTOR, LIQUID DETERGENT, OR A SOAP AND WATER SOLUTION. CORRECT ANY LEAKS FOUND.
3. EXHAUST AIR FROM SYSTEM BY DEPRESSING STEM IN FILLER VALVE NECK. RETAIN A MINIMUM PRESSURE OF 10 PSI.
4. PARTS NOT USED MAY BE DISCARDED AFTER INSTALLATION IS COMPLETE.

										TITLE		35G66 SHOCK ABSORBER					
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE			
										MAY 26, 1967	1968	INFORMATION MANUAL	4	118			
										DR. BY W.C. MASON							
										8-10-67 B WAS PAGE 117							
										6-20-67 A2 NOTE REVISED							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	SERIES	PART NO.
																A	398162



V PEDAL TRAVEL FOR SERVICE BRAKE

	DRUM MANUAL	DRUM POWER	DISC POWER
W	4" MAX.	2 1/4" MAX.	2 1/2" MAX.

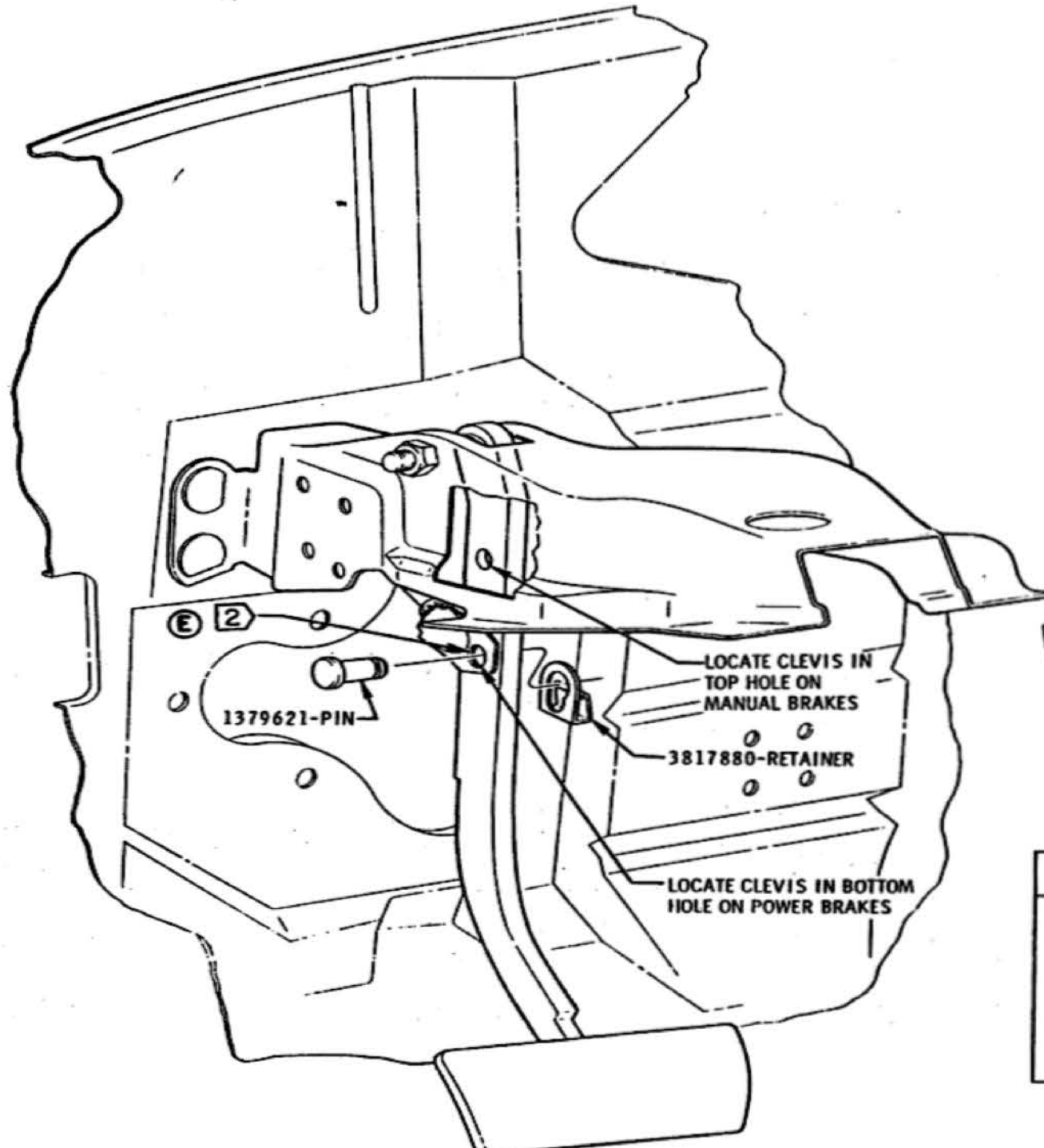
THE ABOVE PEDAL TRAVEL IS TO BE MEASURED WITH 70 LBS. FORCE ON THE PEDAL. CARS WITH POWER BRAKES ARE TO HAVE THE ENGINE RUNNING AND THE THROTTLE CYCLED TO OBTAIN MAXIMUM ENGINE VACUUM.

- ① 20-28 LB. FT.
- ② 11-16 LB. FT.

SEE PAGE 115 FOR LEAK TEST SPECS.

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

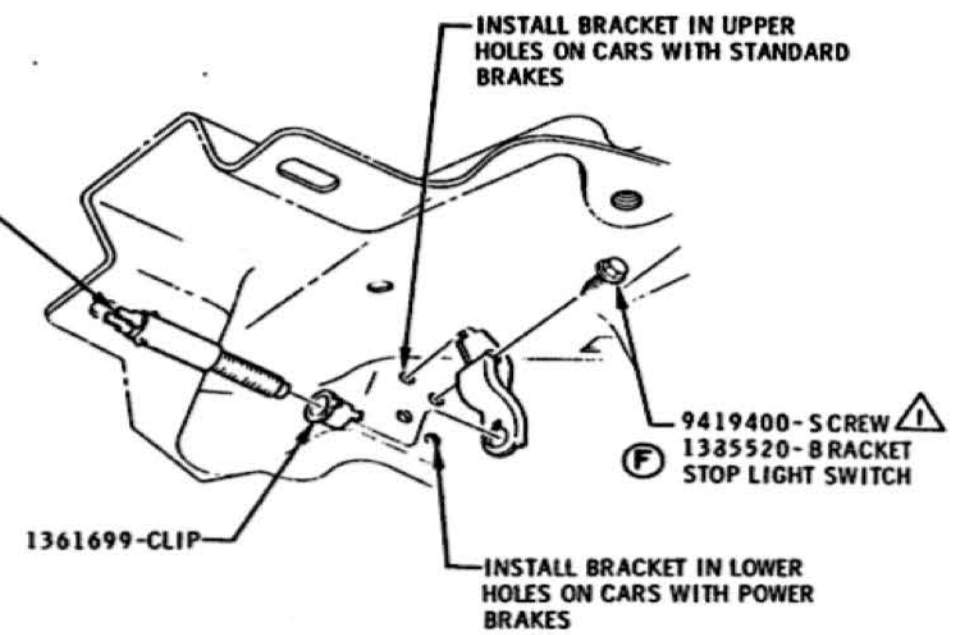
5-8-68 W "MAX." ADDED										P. M. B.		TITLE			CYLINDERS, BRACKET ASSY & PEDAL MOUNTING									
3-25-68 Y NO. 5 ADDED										P. M. B.		DATE JANUARY 16, 1967			FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE	
3-5-66 U TORQUE ADDED										P. M. B.		DR. BY HOYER							5		110			
2-29-68 T PART NO. ADDED										P. M. B.		CHECKED P. M. B. / [Signature]												
12-5-67 S PART NO. ADDED										P. M. B.		APPR.												
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	REF. NO.	SERIES	PART NO.						
																35431, 33, 34, 40-97-35	A	398162						



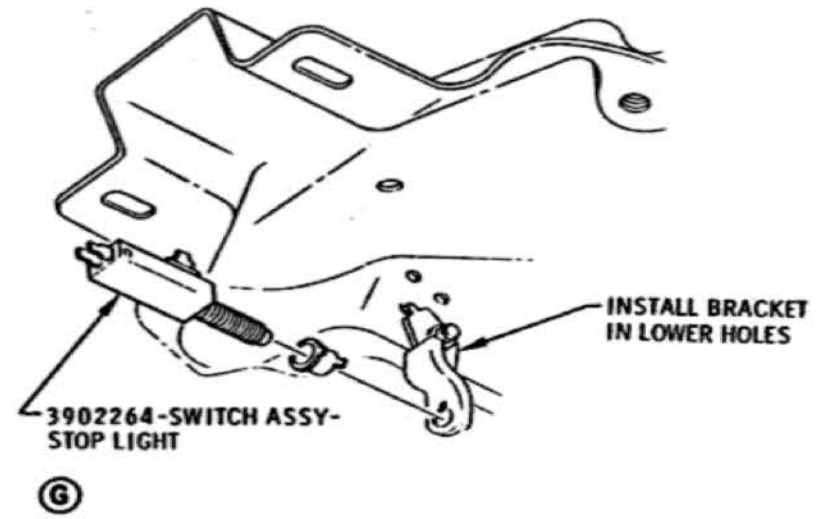
A-B

- 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.

⚠ 72 - 94 LB. IN.



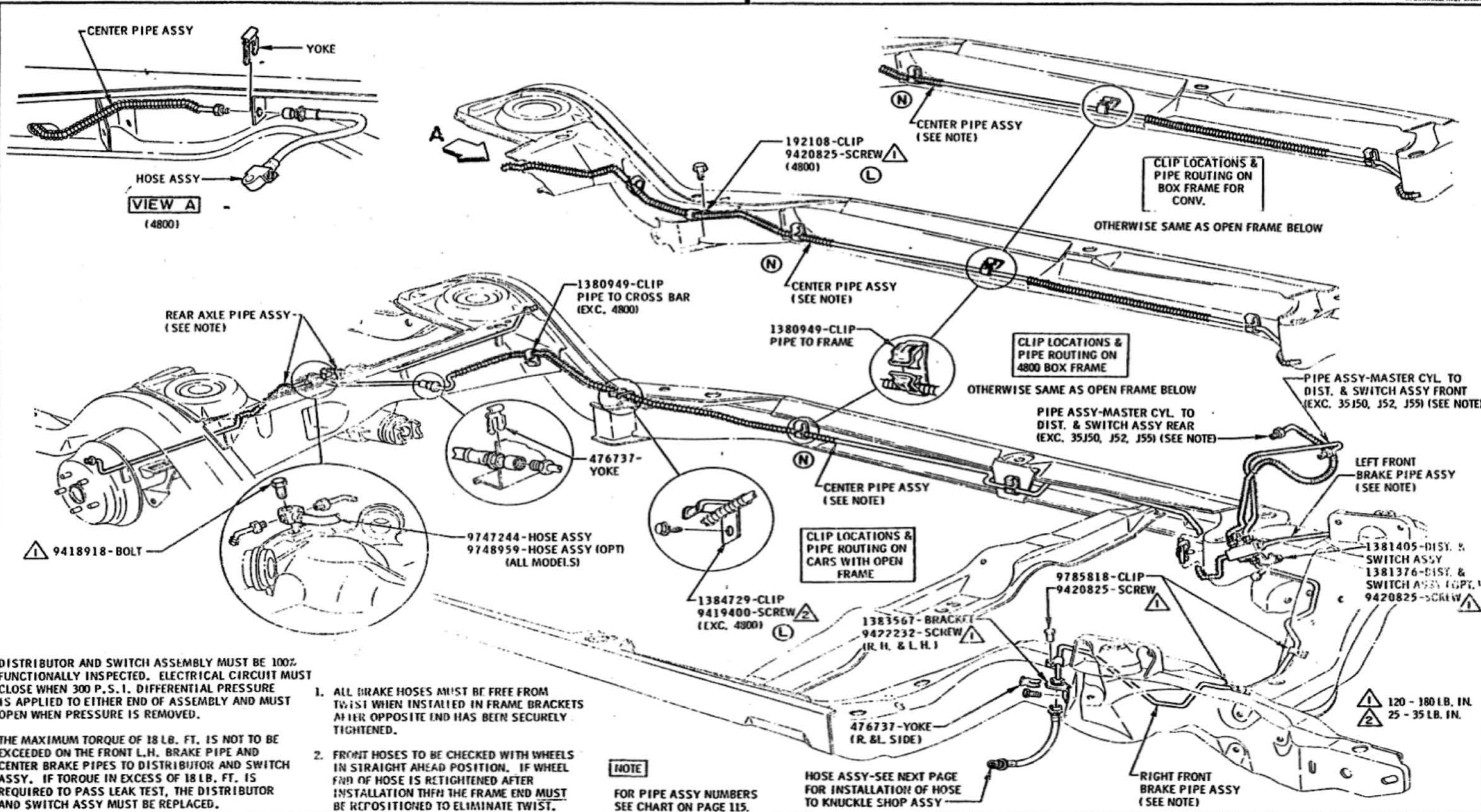
VIEW A
EXC. CRUISE CONTROL



VIEW B
CARS WITH CRUISE CONTROL

LUBRICATE AREAS INDICATED
2 WITH 9985038 GREASE

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
					8-21-67	E	LUB. LOCATION REVISED	J13	P73							SWITCH AND CLEVIS TO ARM ASSEMBLY				
					5-16-67	D	NOTE REMOVED									DATE JANUARY 16, 1967	1968		5	111
					5-8-67	C	VIEW REVISED									DR. BY 130YER				
					3-16-67	B	REVISED & REDRAWN									CHECKED/MBarnhart				
					11-15-67	G	9787705-SW. REMOVED	PL	P73							APPR. DM Adlard				
					11-13-67	F	WAS 1379620 BRACKET	J13	P73								REF. 5C 12E			
																	35K30	SERIES A	PART NO. 398162	



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.

THE MAXIMUM TORQUE OF 18 LB. FT. IS NOT TO BE EXCEEDED ON THE FRONT L.H. BRAKE PIPE AND CENTER BRAKE PIPES TO DISTRIBUTOR AND SWITCH ASSY. IF TORQUE IN EXCESS OF 18 LB. FT. IS REQUIRED TO PASS LEAK TEST, THE DISTRIBUTOR AND SWITCH ASSY MUST BE REPLACED.

1. ALL BRAKE HOSES MUST BE FREE FROM TWIST WHEN INSTALLED IN FRAME BRACKETS AFTER OPPOSITE END HAS BEEN SECURELY TIGHTENED.
2. FRONT HOSES TO BE CHECKED WITH WHEELS IN STRAIGHT AHEAD POSITION. IF WHEEL END OF HOSE IS RETIGHTENED AFTER INSTALLATION THEN THE FRAME END MUST BE REPOSITIONED TO ELIMINATE TWIST.

DATE	SYM	REVISION	DR.	CK.	LATE	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	K	WAS 9769967 CLIP	J13	MS	5-12-67	E	WAS 9420825	MS													
					8-22-67	J2	PIPE ASSY REV. TO DETAIL	J13	MS	5-12-67	D	CLIPS REVISED	MS													
1-12-68	N2	PIPE ASSY REV. TO DETAIL	J13	MS	7-18-67	H	PART NO. ADDED	J13	MS	5-2-67	C	35F35 REMOVED	MS													
10-10-67	M	PIPE ASSY REV. TO DETAIL	J13	MS	7-11-67	G	PIPE REV'D. TO DETAIL	J13	MS	4-4-67	B	HOSE PART NOS. REMOVED	MS													
9-22-67	L	TORQUE SYMBOL ADDED	MS	MS	6-14-67	F	35JES ADDED	MS	MS	3-31-67	A2	PART NOS. ADDED	MS													

BRAKE LINES

DATE **MARCH 16, 1967**

DR. BY **130YEP**

CHECKED **MS Barnhart**

APPR. **MS**

FIRST USED **1968**

REF. **5F**

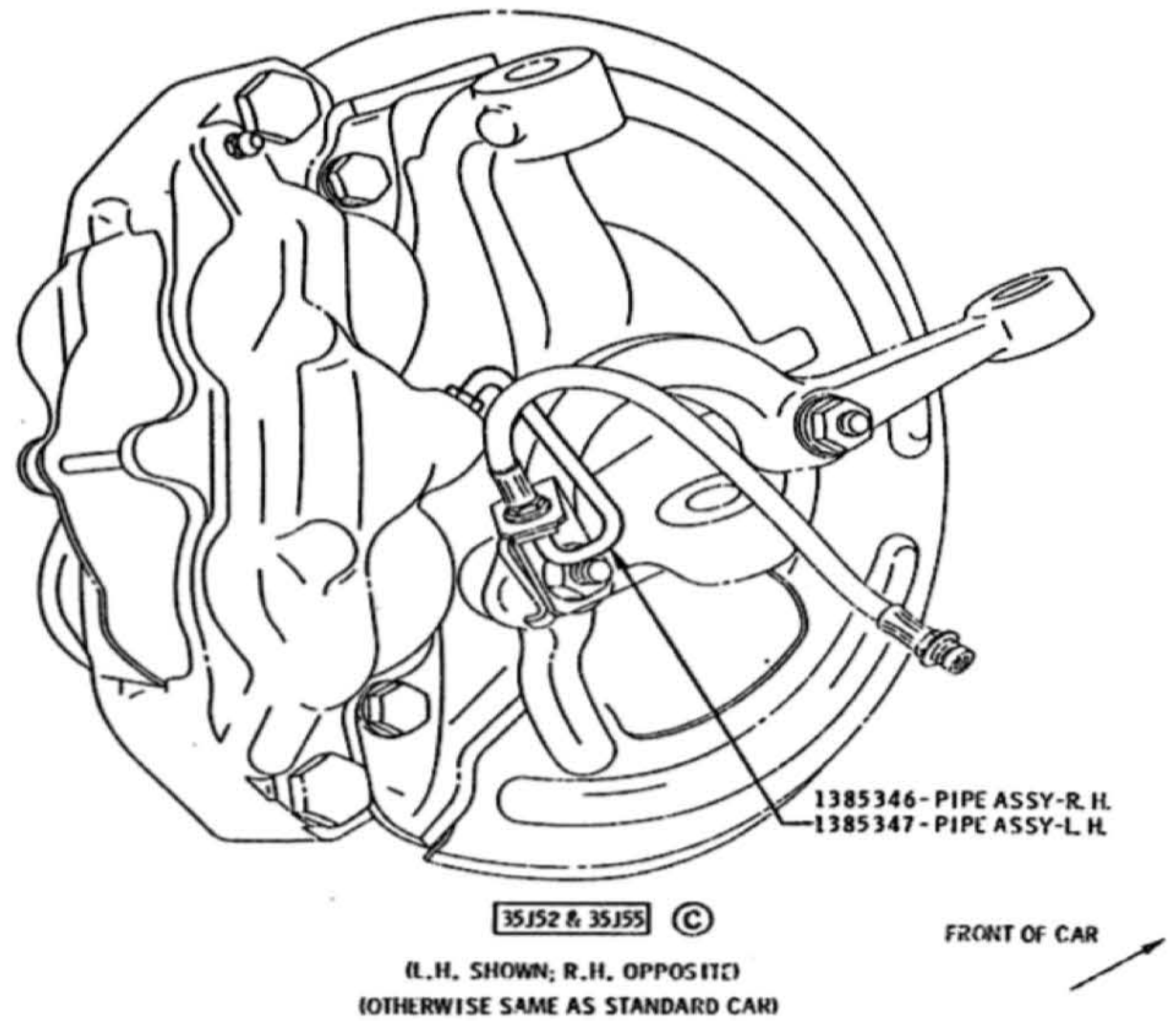
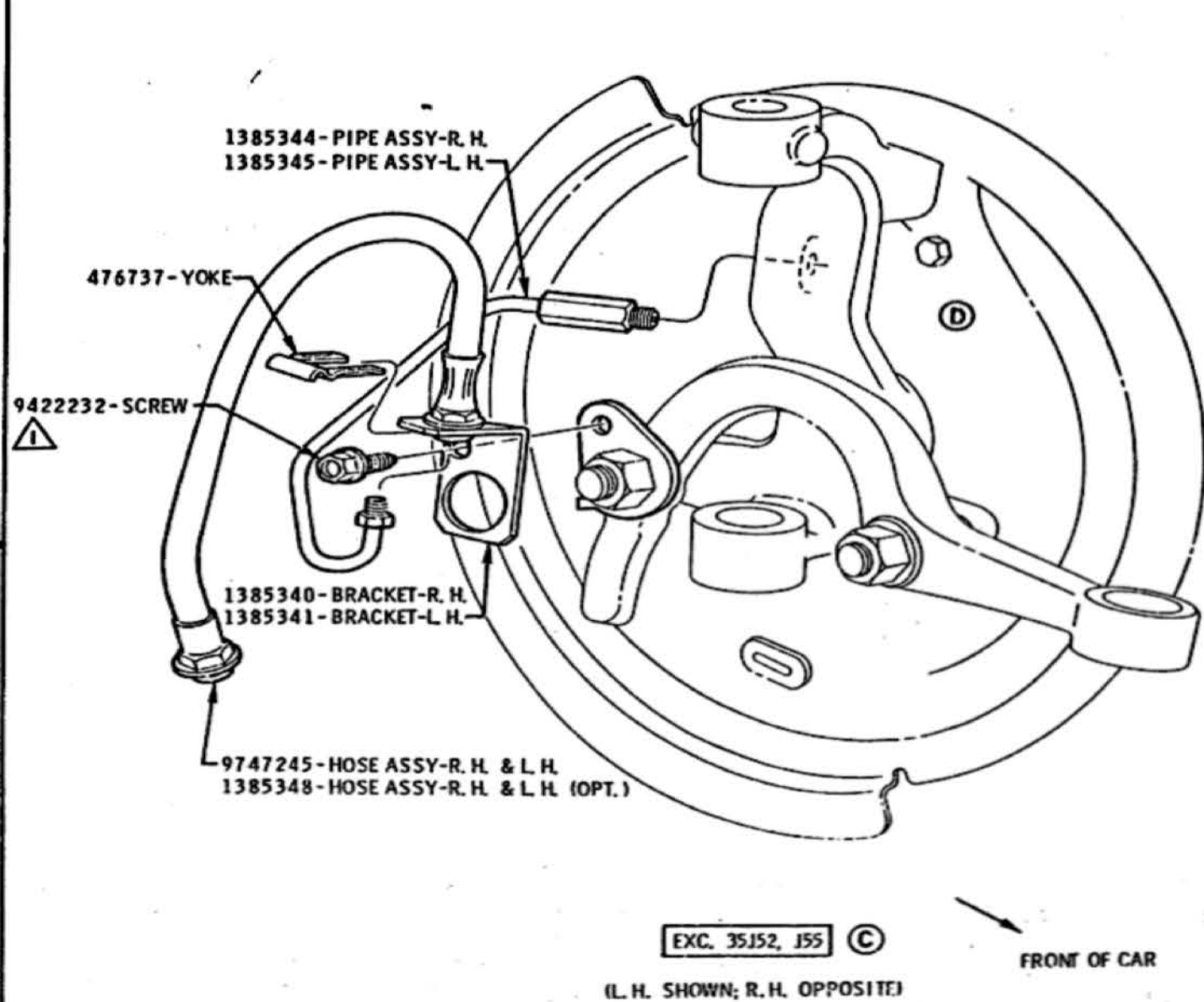
OLDSMOBILE PRODUCT INFORMATION MANUAL

MANUAL SECTION **5**

PAGE **112**

SERIES **A**

398162



⚠ 108 - 156 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
					7-12-67	D	PART NO. REMOVED									KNUCKLE SHOP ASSY PIPING & HOSE ROUTING				
					6-14-67	C ₂	35J55 ADDED									DATE MARCH 21, 1967	1968		5	113
					5-16-67	B	REVISED & REDRAWN									DR. BY ISOYER				
					4-12-67	A	REVISED & REDRAWN									CHECKED [Signature]	REF. 5F			
																APPR.	35J50-J52	SERIES A	PART NO. 398162	

**LEAK TEST (DIFFERENTIAL PRESSURE TYPE EQUIPMENT)
FOR STANDARD AND POWER BRAKE CYLINDERS**

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. (L)

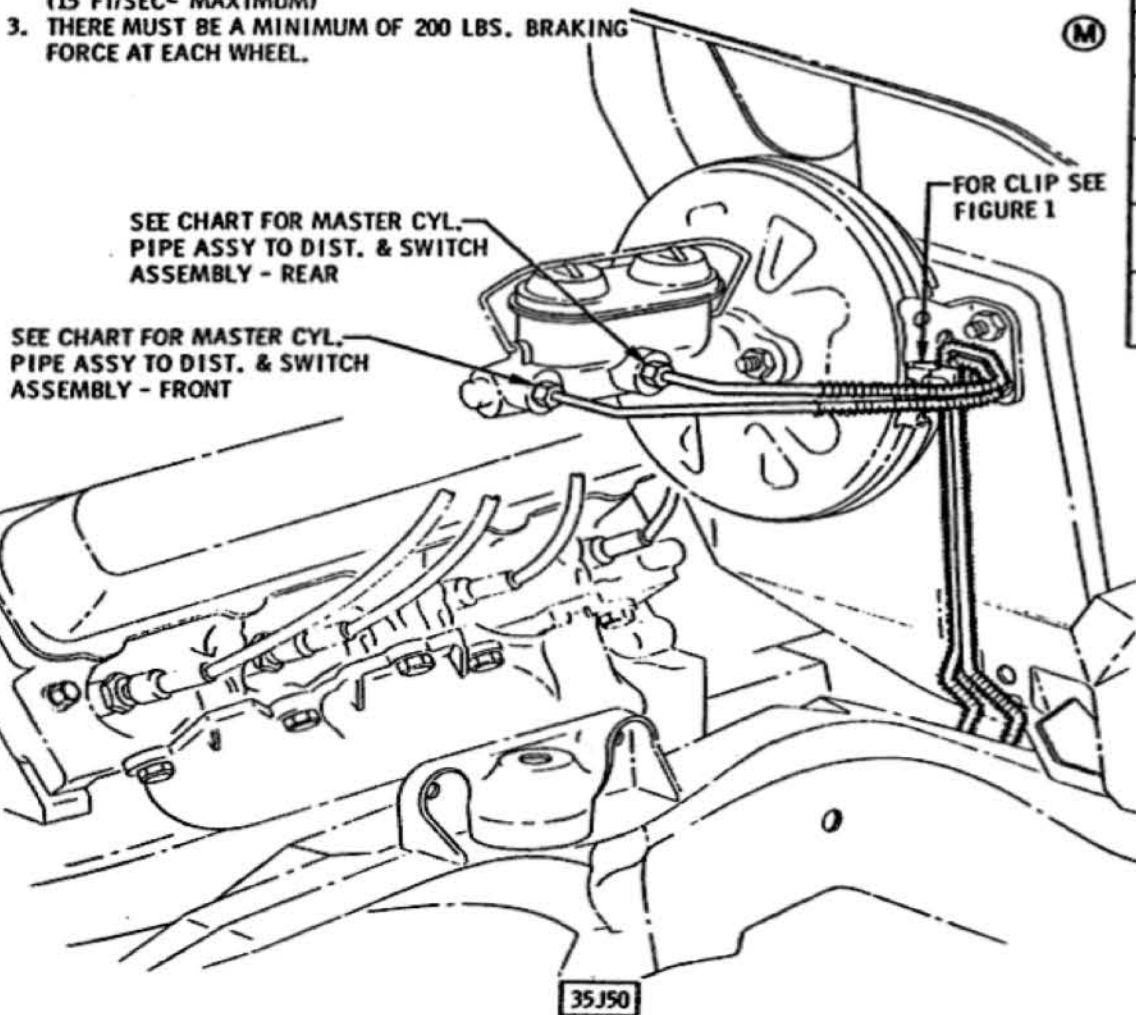
IF PEDAL JACK IS USED IN ADDITION TO THE DIFFERENTIAL
PRESSURE TYPE EQUIPMENT, THE FORCE IMPOSED ON THE
PEDAL MUST NOT CAUSE A HYDRAULIC PRESSURE IN THE
BRAKE HYDRAULIC SYSTEM THAT EXCEEDS 2000 P.S.I.

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

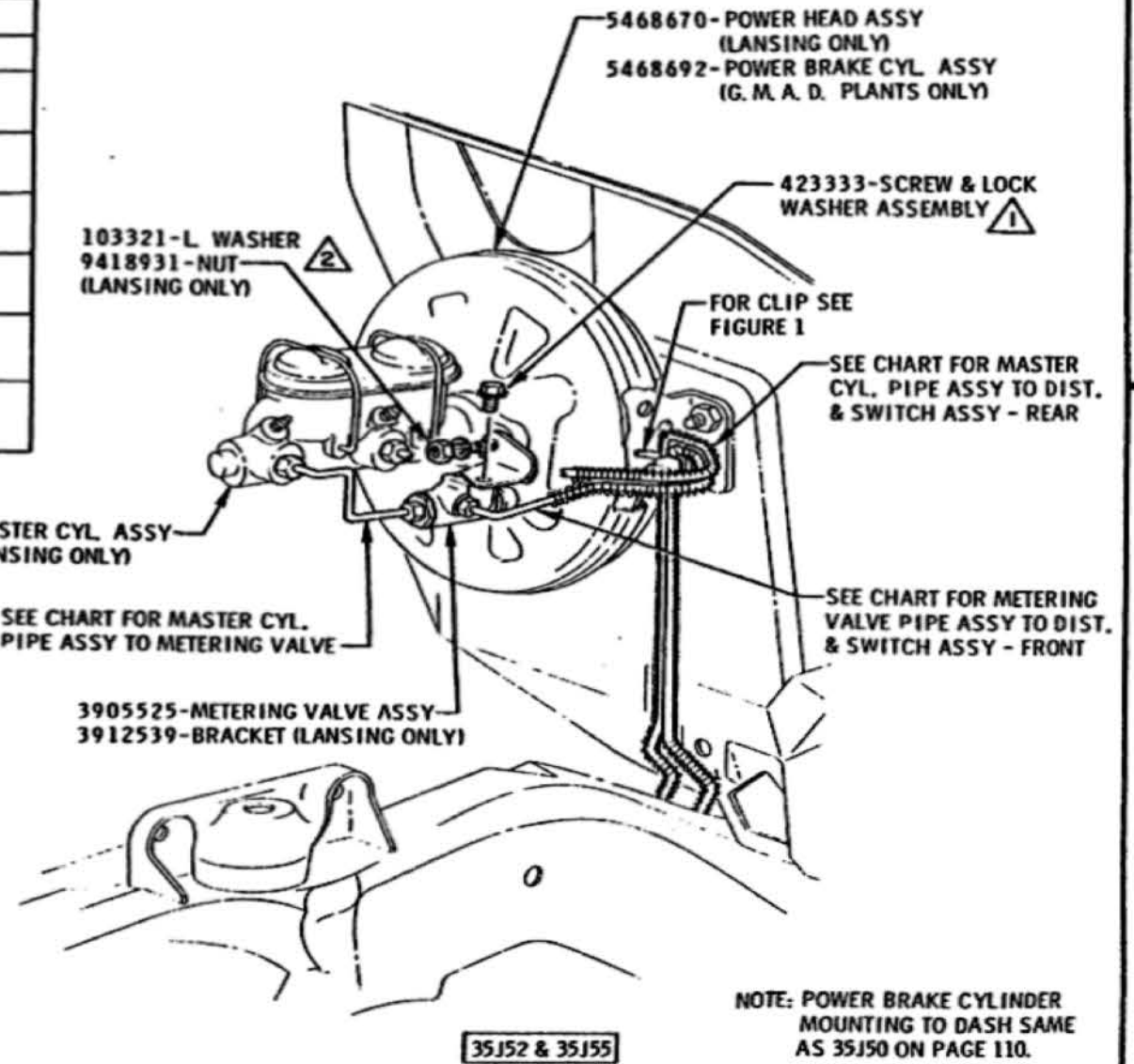
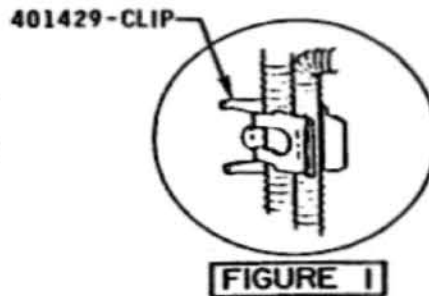
**COMPLETED CAR MUST PASS FOUR WHEEL
BRAKE TEST AS FOLLOWS:**

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.

BRAKE PIPE CHART		
PIPE ASSEMBLY	USAGE	CODE
1383329-CENTER	SEDANS & REG. S. WAG.	
1383330-CENTER	COUPES	
1383331-CENTER	CONV.	
1383423-CENTER	4800	
1384900-R. FRONT BRAKE	ALL	
1383295-L. FRONT BRAKE	ALL	
1382314-R. REAR AXLE	EXC. 4800	
1382914-R. REAR AXLE	4800	
1382315-L. REAR AXLE	EXC. 4800	
1392915-L. REAR AXLE	4800	
1383291-MASTER CYL. TO DIST.-FRONT	EXC. 35J50, 35J52, 35J55	
1386036-MASTER CYL. TO DIST.-REAR	EXC. 35J50, 35J52, 35J55	
1383292-MASTER CYL. TO DIST.-REAR	35J50, 35J52, 35J55	
1383290-MASTER CYL. TO DIST.-FRONT	35J50	
3923311-METERING VALVE TO DIST.-FRONT	35J52, 35J55	
1384694-MASTER CYL. TO METERING VALVE	35J52, 35J55	



(M)

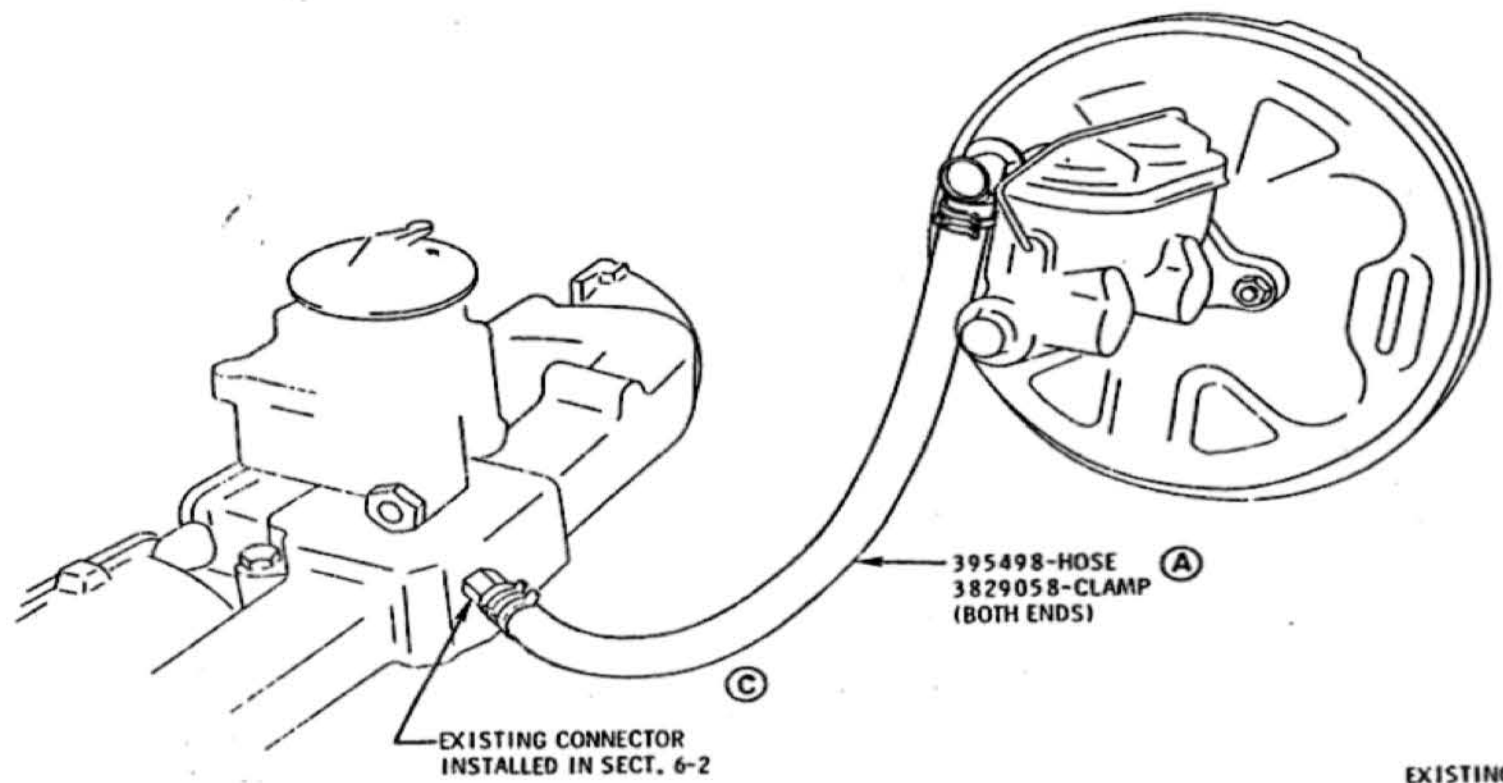


1 60 - 96 LB. IN.
2 20 - 28 LB. FT.

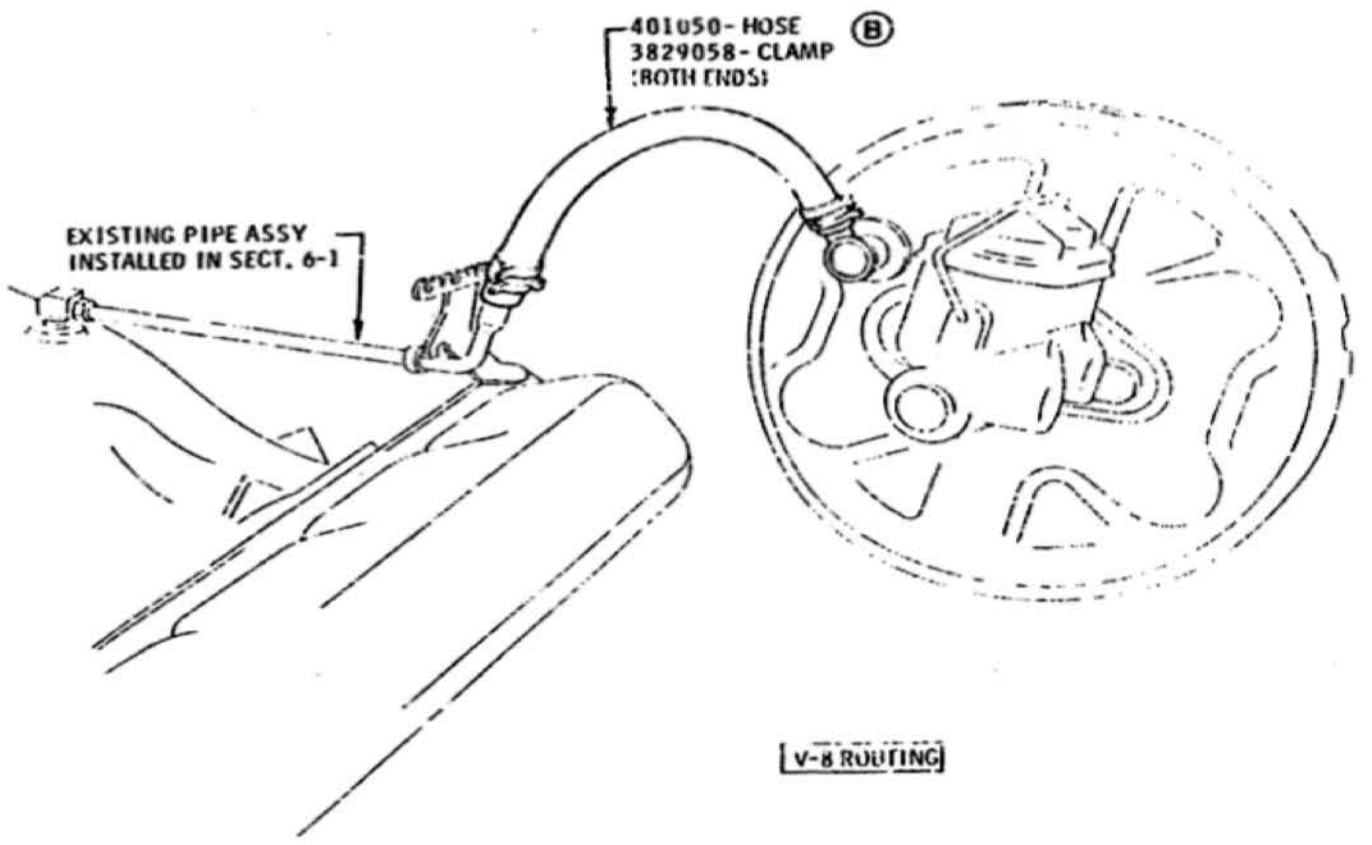
NOTE: POWER BRAKE CYLINDER
MOUNTING TO DASH SAME
AS 35J50 ON PAGE 110.

REVISION		REVISION		REVISION		REVISION		REVISION		REVISION		REVISION	
DATE	SYM	DR.	CK.	DATE	SYM	DR.	CK.	DATE	SYM	DR.	CK.	DATE	SYM
6-14-67	K			35J55 INFO. ADDED				5-16-67	E			NOTE ADDED	
6-14-67	J			NOTE ADDED				4-28-67	D			35F35 OPT. CANCELLED	
6-2-67	H			PART NOS REVISED				4-5-67	C			REVISED & REDRAWN	
7-19-67	M			WAS 1383293-PIPE ASSY				3-30-67	B			REVISED & REDRAWN	
7-19-67	L			WAS 10 SECONDS				3-20-67	A			NOTE REVISED	

DATE FEBRUARY 22, 1967		FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE
DR. BY 130YER		1968	INFORMATION MANUAL	5	115
CHECKED MYB arnhart		REF. 5F 35F35	SERIES	PART NO.	
APPR. APPR.		35J50 - 35J52	A	398162	



L-6 ROUTING



V-8 ROUTING

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.
																POWER BRAKE VACUUM HOSE ROUTING	1968		5	116	A	398162
					2-26-68	C	HOSE ROUTING REVISED									DATE MAY 1, 1967						
					4-24-67	B	HOSE ROUTING REVISED									DR. BY WE. MASON						
					6-6-67	A	HOSE ROUTING REVISED									CHECKED J. Barnhart						

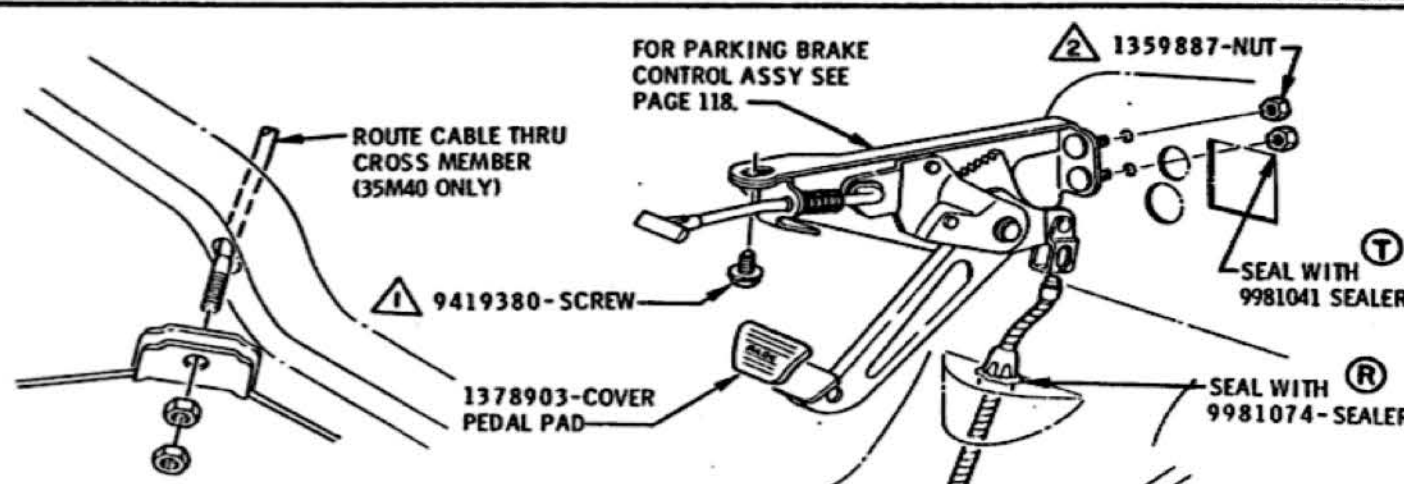
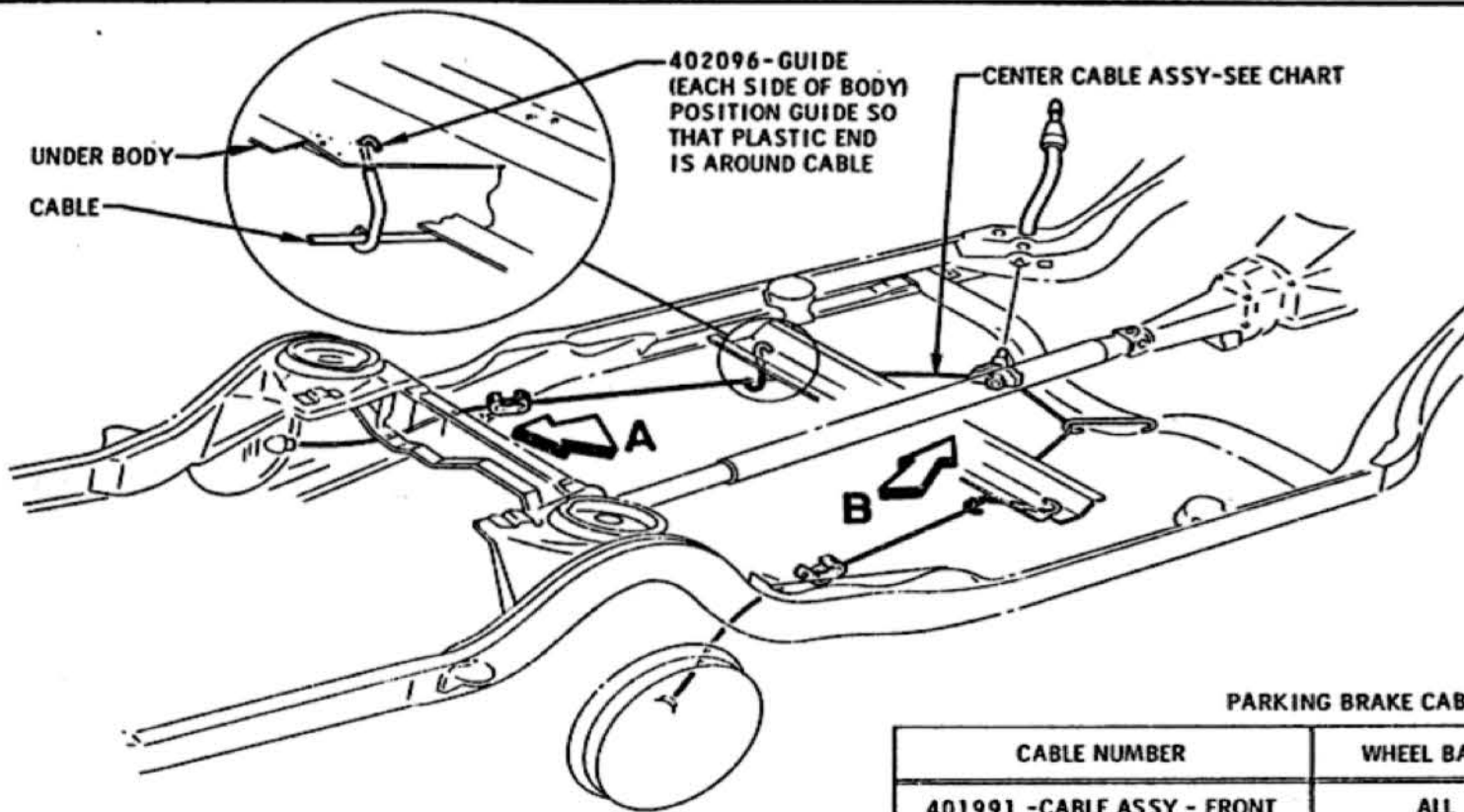
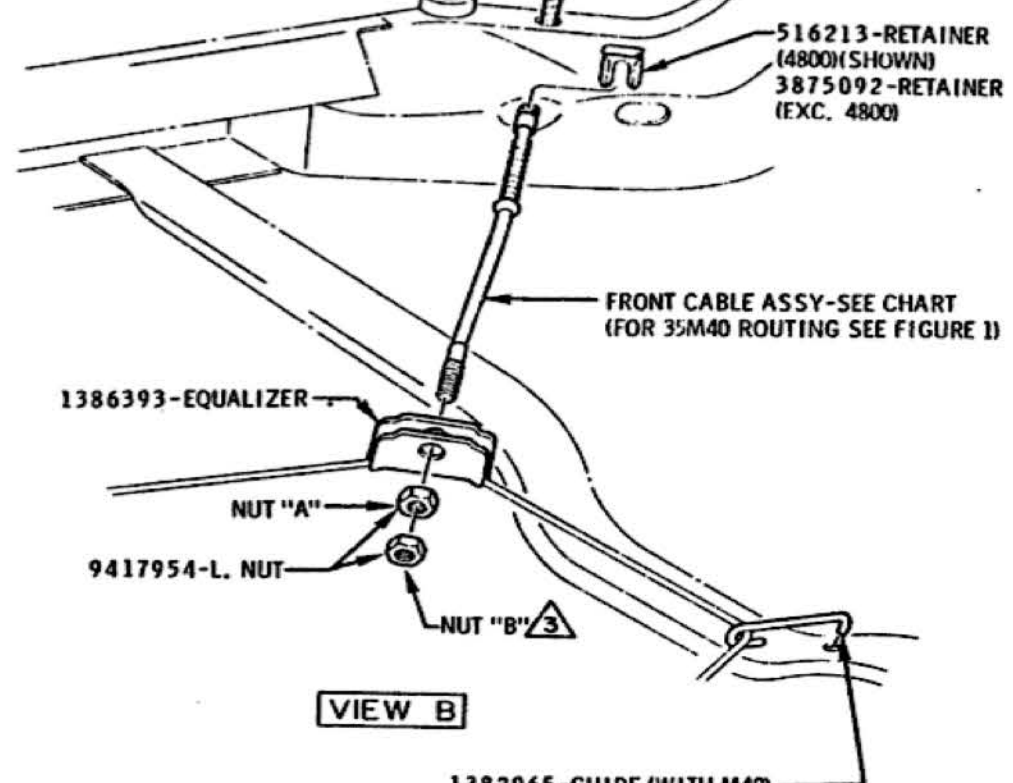


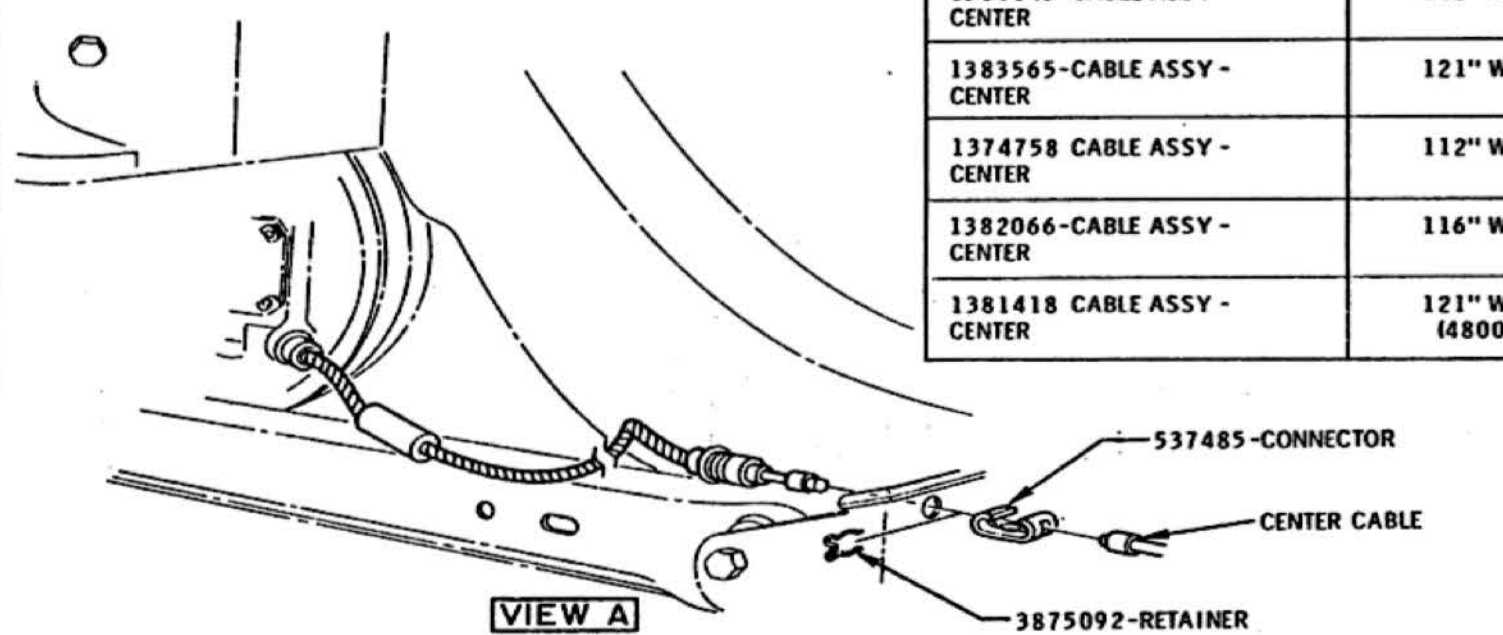
FIGURE 1



VIEW B

PARKING BRAKE CABLE CHART

CABLE NUMBER	WHEEL BASE	TRANS.	CODE
401991 -CABLE ASSY - FRONT	ALL	EXC. M40	
401990 -CABLE ASSY - FRONT	ALL	35M40	GREEN
402299 -CABLE ASSY - CENTER	112" W/B	EXC. M40	E
1361843-CABLE ASSY - CENTER	116" W/B	EXC. M40	SB
1383565-CABLE ASSY - CENTER	121" W/B	EXC. M40	SD
1374758 CABLE ASSY - CENTER	112" W/B	35M40	SG
1382066-CABLE ASSY - CENTER	116" W/B	35M40	SF
1381418 CABLE ASSY - CENTER	121" W/B (4800)	35M40	



VIEW A

- 1 72 - 108 LB. IN.
- 2 84 - 120 LB. IN.
- 3 36 - 72 LB. IN.

HOLD THREADED END OF CABLE AND ADJUST NUT "A" TO PRODUCE A PEDAL LOAD OF 65 - 90 LBS. WHEN PEDAL IS DEPRESSED TO OBTAIN 5 CLICKS. THEN HOLD NUT "A" AND TIGHTEN NUT "B" TO SPECIFIED TORQUE.

TITLE										PARKING BRAKE CONTROL									
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		5	117
																REF. 5D	35M40(5D)	SERIES A	PART NO. 398162

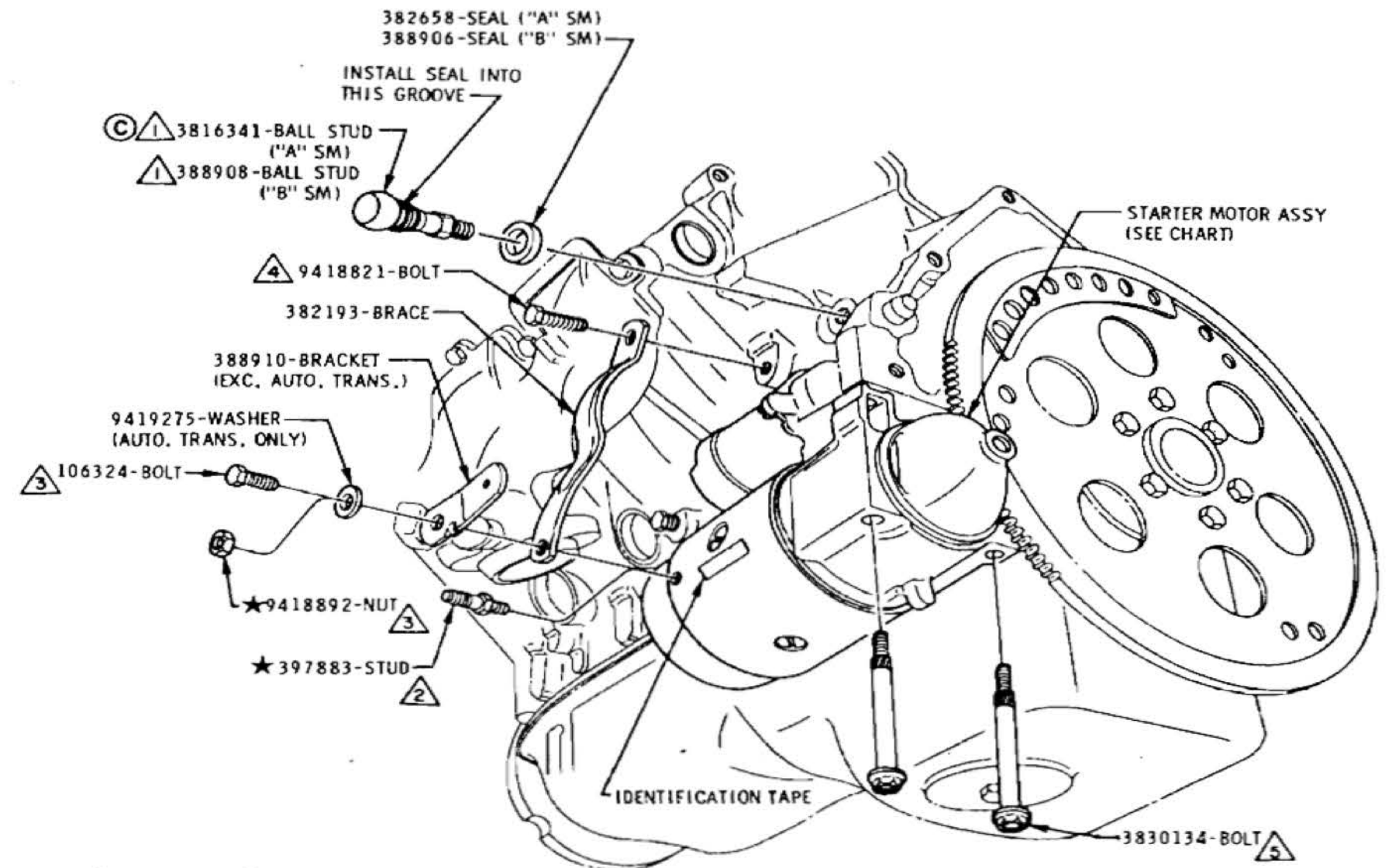
1968 PRODUCTION CAMSHAFTS

CAMSHAFT ASSY	CAMSHAFT	INDEX	ENGINE USAGE	VALVE LIFT	VALVE TIMING	CAMSHAFT IDENTIFICATION		CASTING	
						SHAFT GRIND	COLOR CODE	IDENT.	PART NO.
400084	400085	2K	654 EXC. W31	INT. .400 EXH. .400			ONE BLUE STRIPE *ONE ORANGE & ONE BLUE STRIPE	NONE	401348
400117	400118	2AF	657 REG. 664 REG. (N)	INT. .435 EXH. .435			ONE GREEN STRIPE *ONE GREEN & ONE ORANGE STRIPE	NONE	401348
(L) 402486	402487	28P	658 2BBL. & 48BL. A.T. EXC. W30	INT. .440 EXH. .440			THREE ORANGE STRIPES (P)		
400165	400166	151-0	657 L76 664 W34 (N)	INT. .472 EXH. .472			TWO WHITE STRIPES *TWO WHITE & ONE ORANGE STRIPES		389410
393859	393854	35-N	658 4 8BL. S.M. EXC. W30	INT. .472 EXH. .472			2 BLUE STRIPES		
402194	402195	57-AA	654 4 8BL. S.M. W31	INT. .474 EXH. .474			ONE WHITE STRIPE (K)	2 CAST RINGS	
(M) 402569	402570	57-AB	658 W30	INT. .475 EXH. .475			TWO GREEN STRIPES		

*DENOTES MIXED PROD.

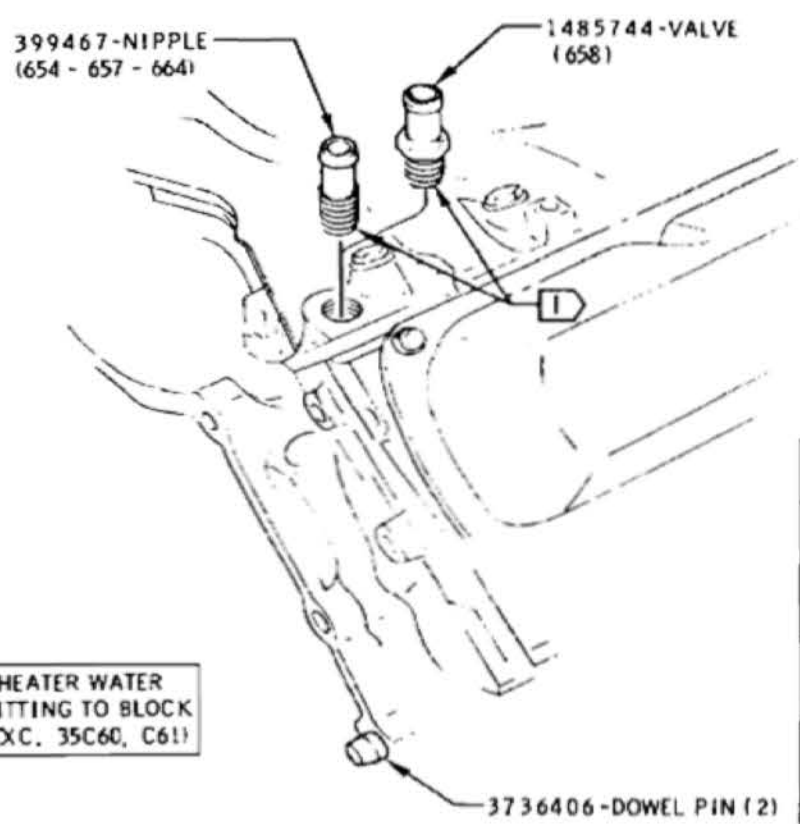
12-27-67 P WAS TWO STRIPES					11-1-67 K2 VIEW REVISED					DR. CK. DATE SYM					TITLE					CHART - CAMSHAFT IDENTIFICATION				
2-27-67 N2 USAGE REVISED					11-1-67 J USAGE REVISED					DR. CK. DATE SYM					DATE: NOV 14, 1967					FIRST USED				
11-1-67 M WAS 397328					10-26-67 H ENGINE USAGE REVISED					DR. CK. DATE SYM					DR. BY: D. J. ECOTT					1968				
11-1-67 L 402486 ADDED					9-28-67 G 402194 ADDED					DR. CK. DATE SYM					CHECKED: D. LAFOND					REF.				
					9-28-67 F 396192 REMOVED					DR. CK. DATE SYM					APPR.					SERIES				
DATE SYM REVISION					DATE SYM REVISION					DATE SYM REVISION					APPR.					A-BC-E				
																				PART NO. 400907				
																				MANUAL SEC. PAGE				
																				6-0 100				

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

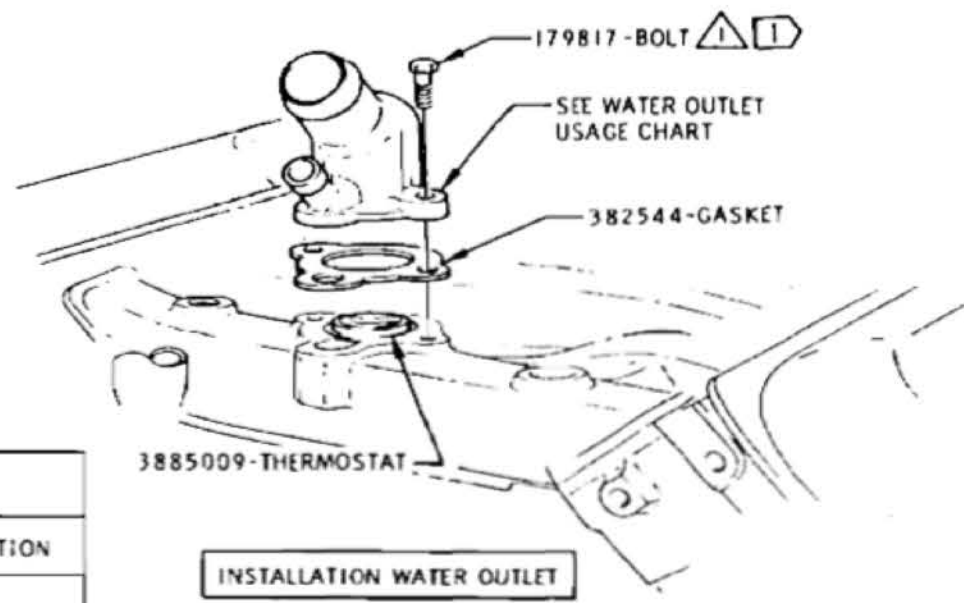


- 1 25-30 LB. FT.
- 2 5-8 LB. FT.
- 3 10-15 LB. FT.
- 4 15-25 LB. FT.
- 5 25-35 LB. FT.

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													
																	RET. 6Y2, 12A, 35L65, L74, L77, L78	SERIES A-B-C	PART 398162-3	



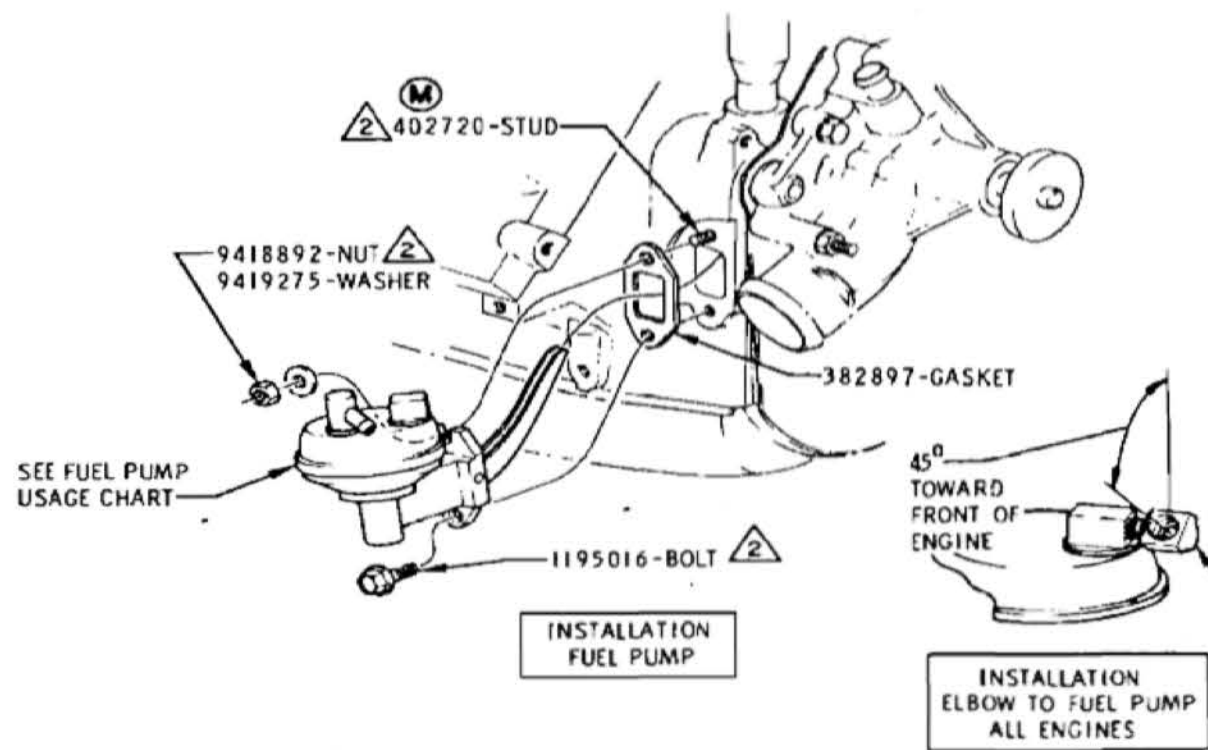
(K)
APPLY SEALER 9985000 TO
AREAS INDICATED (I)
PRIOR TO ASSY



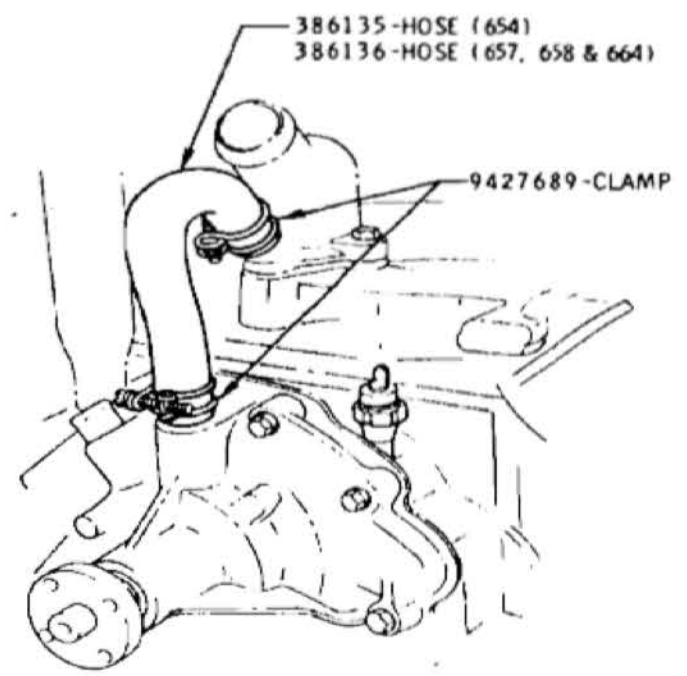
FUEL PUMP USAGE CHART			
PART NO.	ENGINE USAGE	REMARKS	IDENTIFICATION
6440576	654	SURGE DOME NO FUEL BY-PASS	COMPLETE PART NO. OR LAST FIVE DIGITS OF PART NO. STAMPED ON MOUNTING FLANGE
6440522	657 EXC. 35C60, C61	SURGE DOME NO FUEL BY-PASS	
6440523	657 WITH 35C60, C61 658 664	SURGE DOME AND FUEL BY-PASS	

HEATER WATER
FITTING TO BLOCK
(EXC. 35C60, C61)

INSTALLATION WATER OUTLET



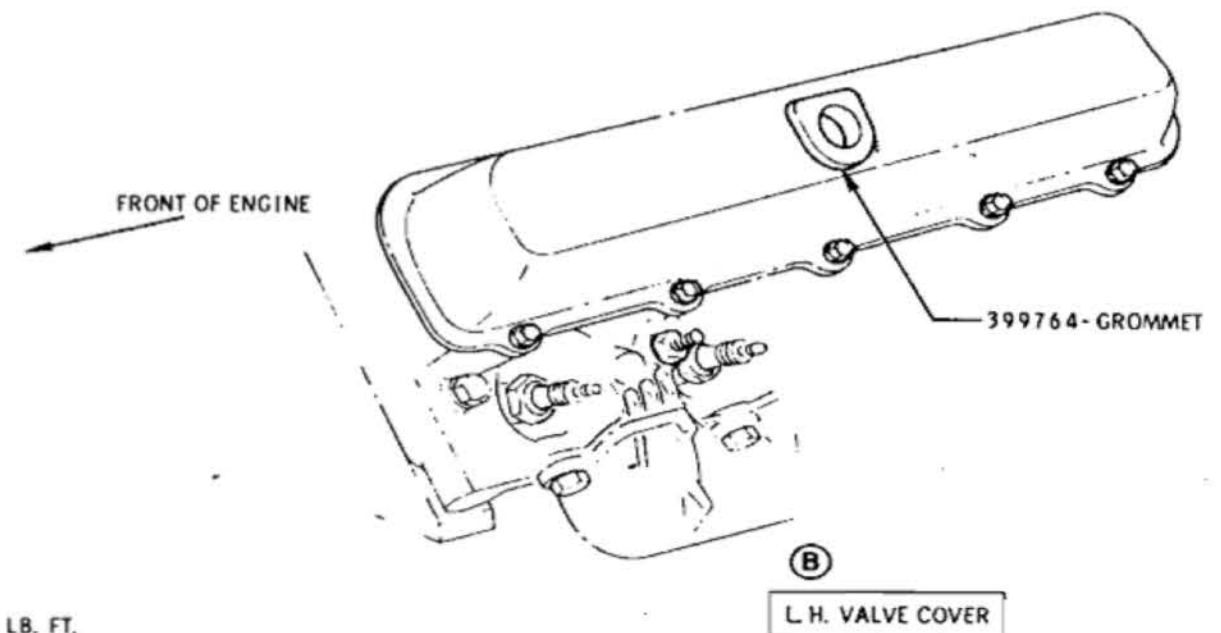
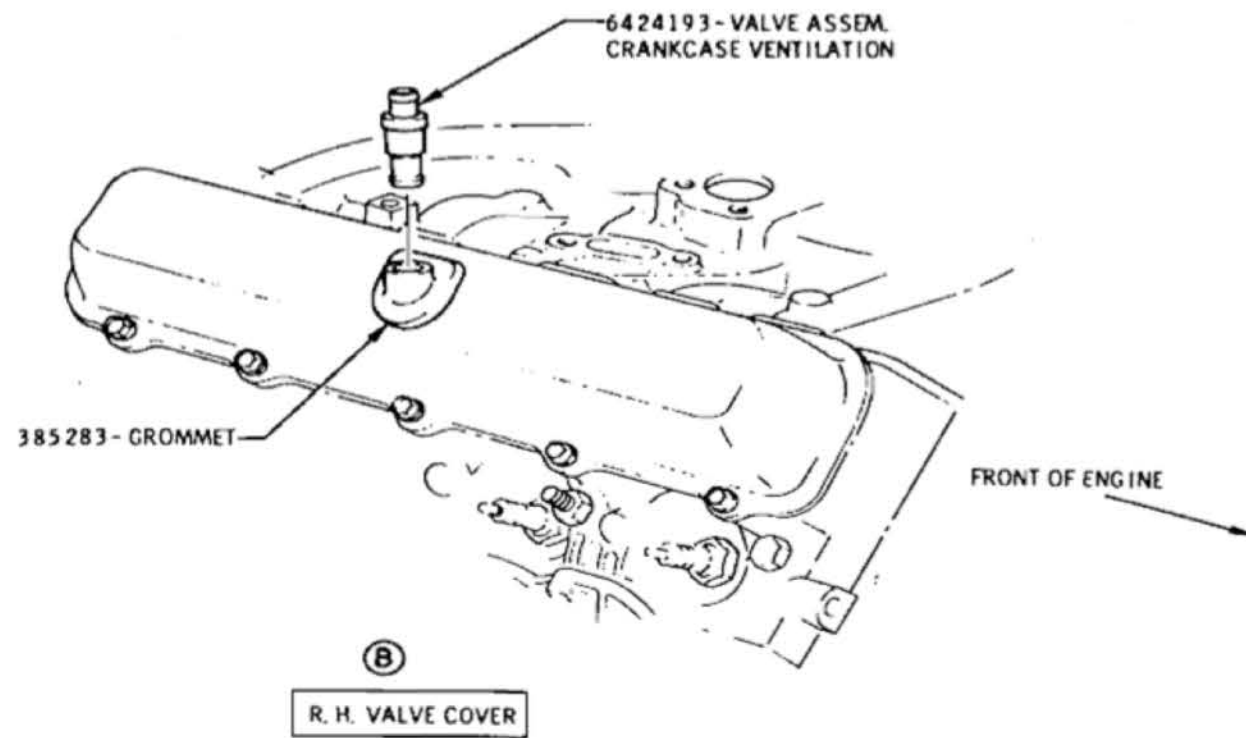
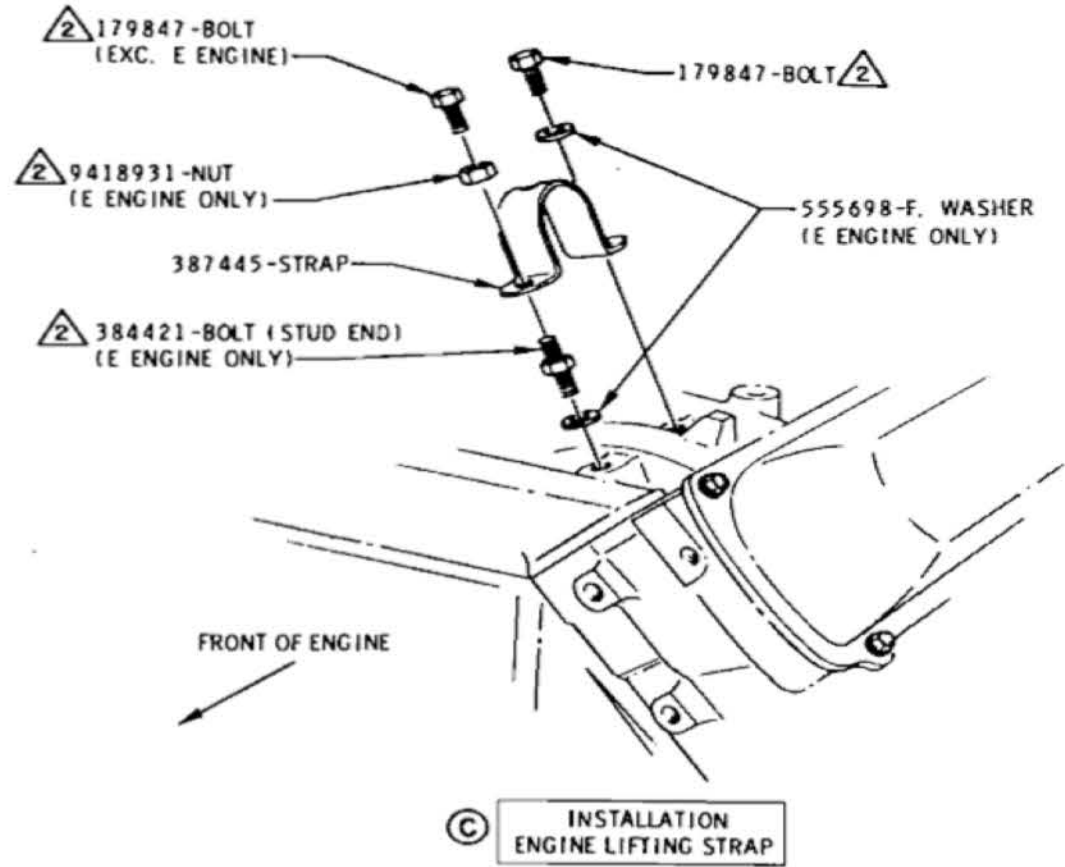
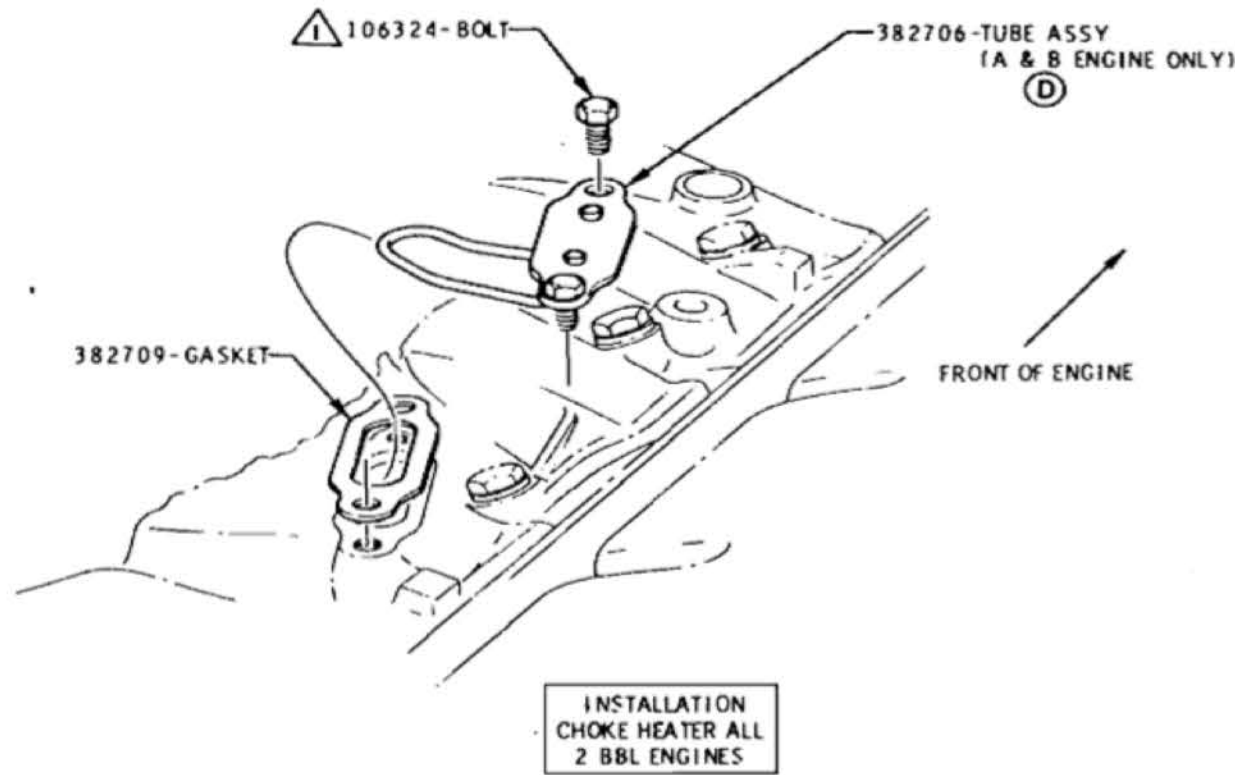
WATER OUTLET USAGE CHART	
392099	654 657 WITH 35C60, C61, Y72 658 WITH 35C60, Y72
386129	657 EXC. 35C60, C61, Y72 658 EXC. 35C60, Y72
382543	664 EXC. 35C60, C61, Y72
393286	664 WITH 35C60, C61, Y72



INSTALLATION
BY-PASS HOSE &
OIL PRESSURE SWITCH

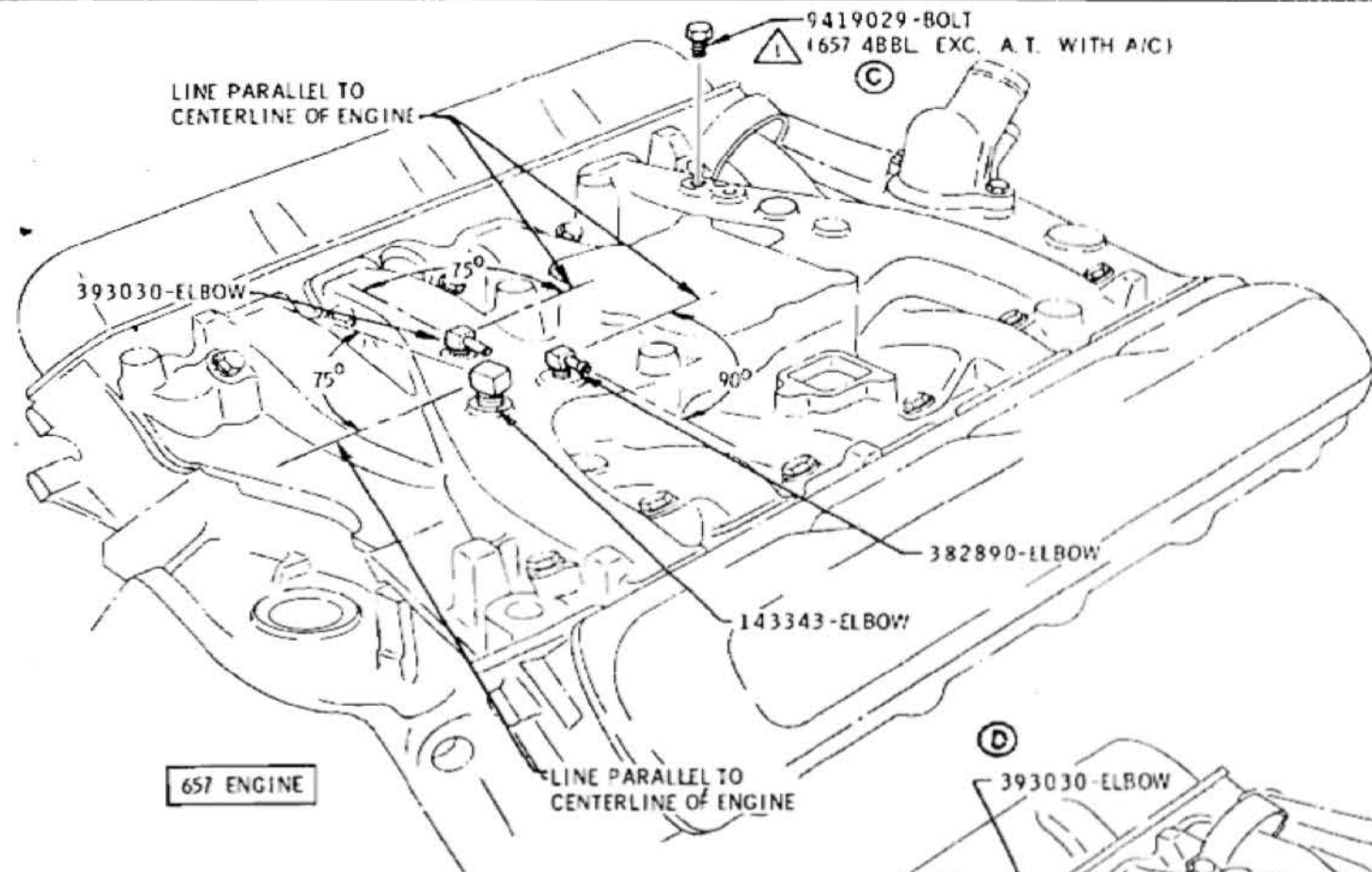
- (1) 15 - 20 LB. FT.
- (2) 20 - 25 LB. FT.

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
					10-8-67	K	NOTE ADDED	CMPTB		4-17-67	E ₂	SWITCH ADDED	CMPTB			FUEL PUMP, WATER OUTLET, BY-PASS HOSE AND NIPPLE				
					9-29-67	J	WAS HOSE ASSY	CMPTB		3-31-67	D	PART NO REVISED	CMPTB			DATE FEBRUARY 23, 1967	FIRST USED	1968	6-0	114
					9-8-67	H	E-CAR Y72 REMOVED	CMPTB		3-31-67	C	VIEW ADDED	CMPTB			DR. BY CURT MAY	REF. 6K3 6M4	ABCE		
12-12-67	M	WAS 382919	CMPTB		8-10-67	G	PART NOS REMOVED	CMPTB		3-31-67	B ₂	CHARTS REVISED	CMPTB			CHECKED MTS	12U 35U21			
11-17-67	L	E-CAR Y7C ADDED	CMPTB		7-10-67	F	PART NOS REMOVED	CMPTB		3-9-67	A ₂	657-664 ADDED	CMPTB			APPR. B. B. [Signature]				

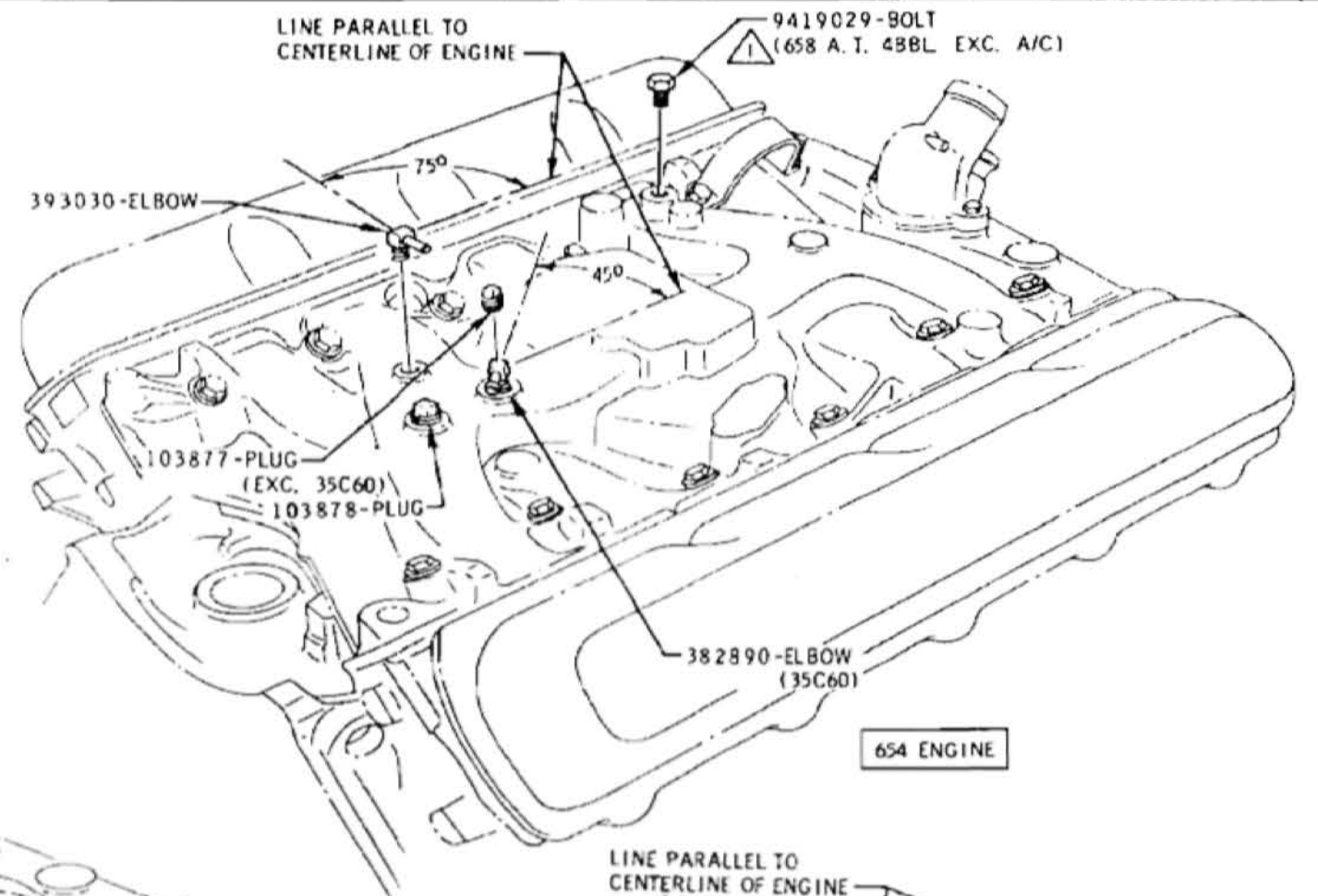


1 10 - 15 LB. FT.
2 25 - 35 LB. FT.

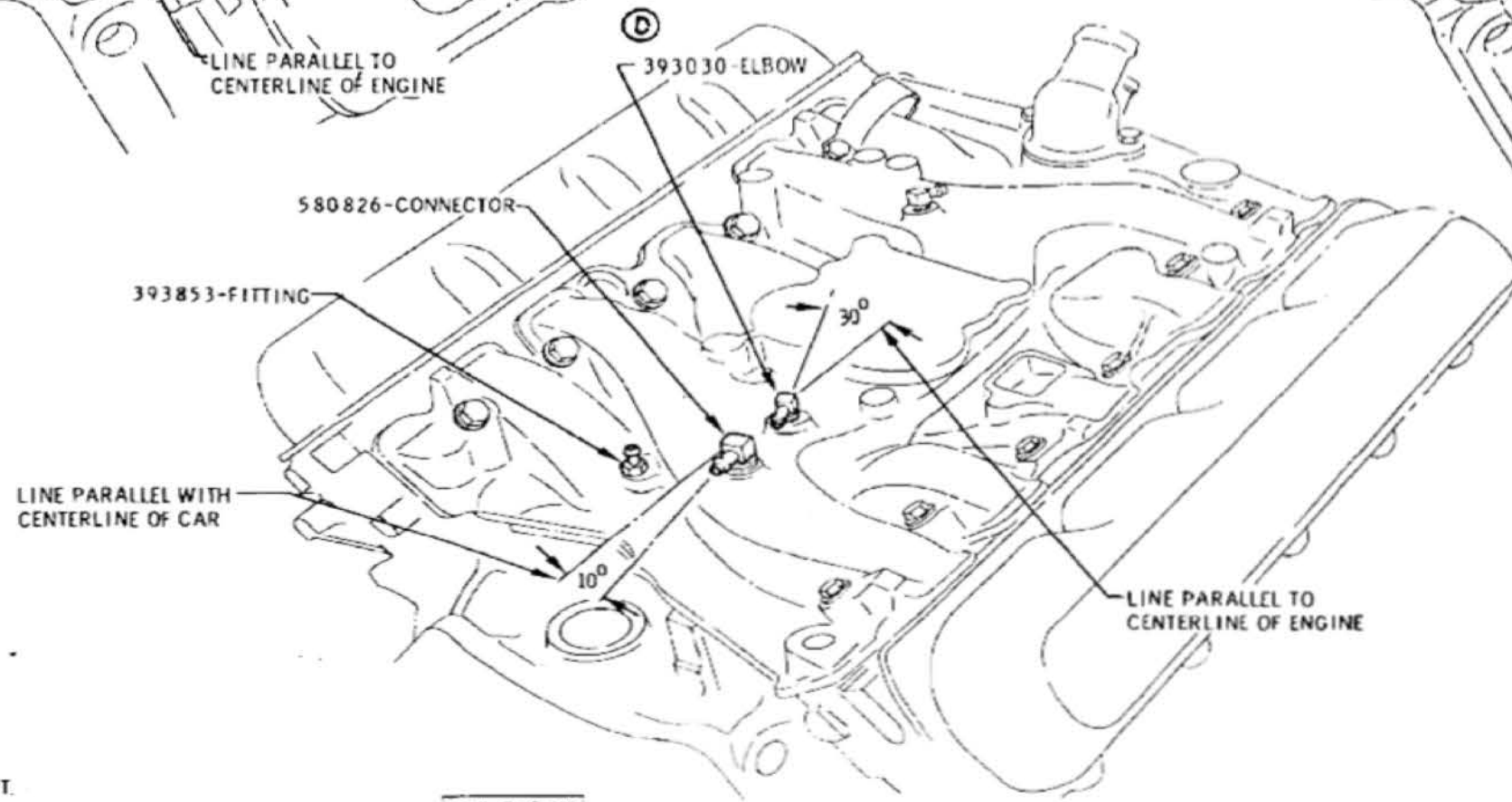
TITLE										STUD END BOLTS, LIFTING STRAPS, CHOKE & VENTILATION VALVE										
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
9-8-67	D	USAGE REV																		
7-5-67	C	VIEW REVISED																		
4-14-67	B ₂	VIEWS REVISED																		
4-5-67	A ₂	WAS 6419534 VALVE																		
																1968		6-0	116	
																REF. 6A5 6H 6M1	SERIES ABCE	PART NO. 398162-3-4		



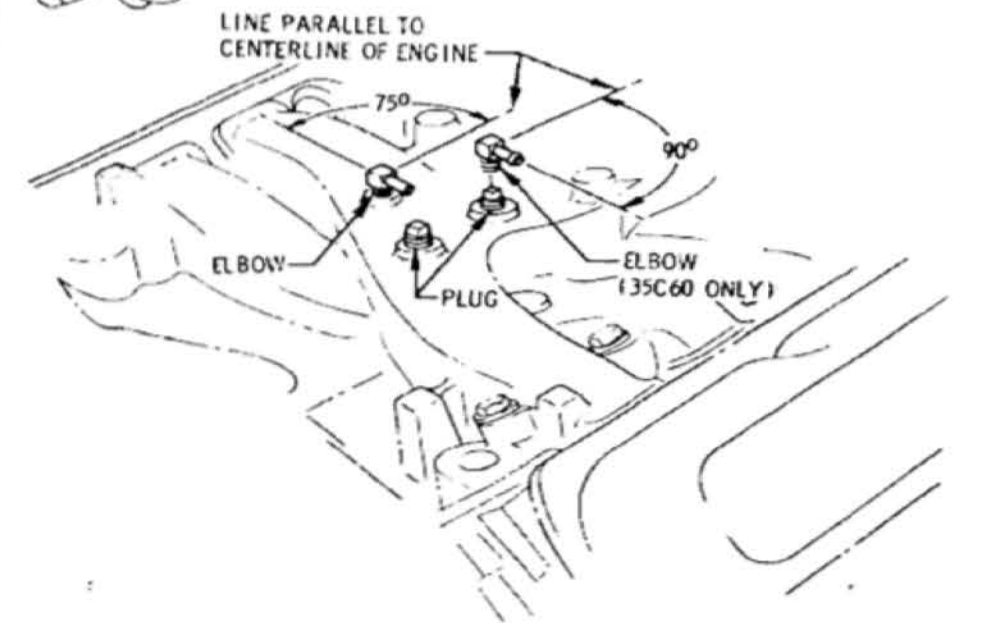
657 ENGINE



654 ENGINE



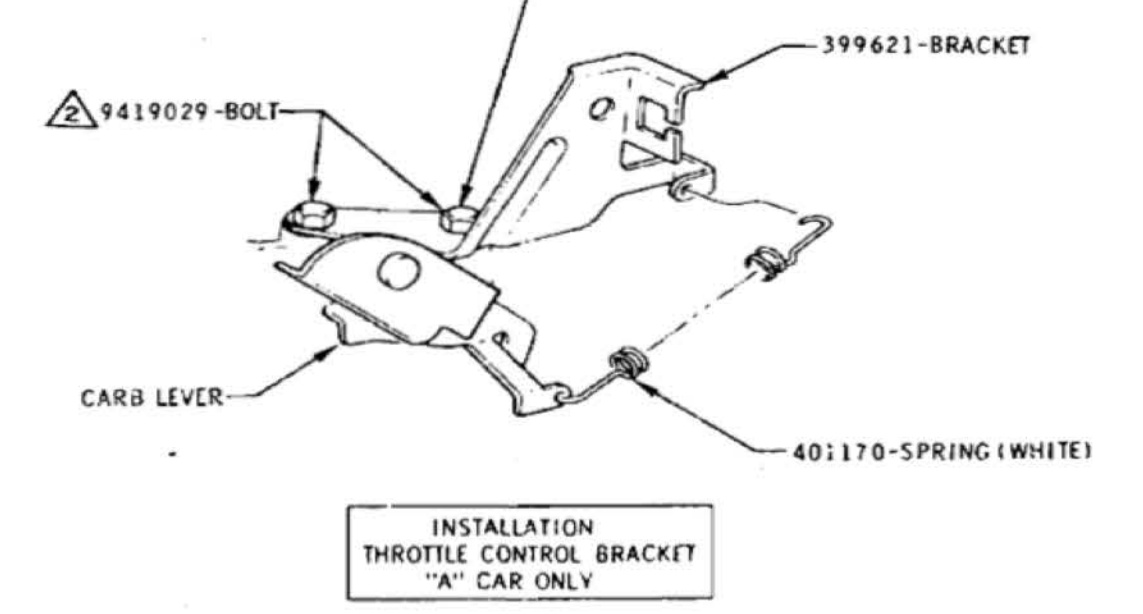
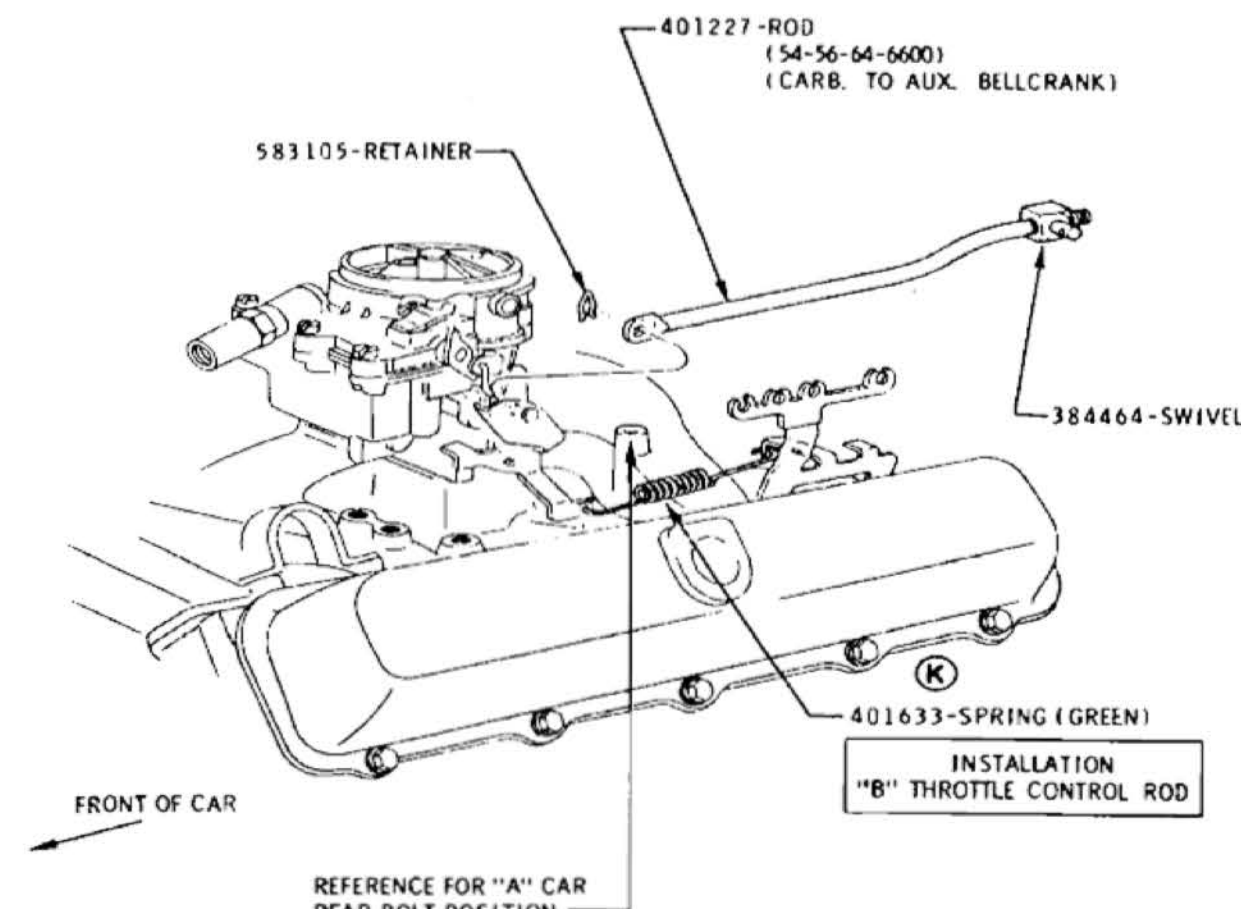
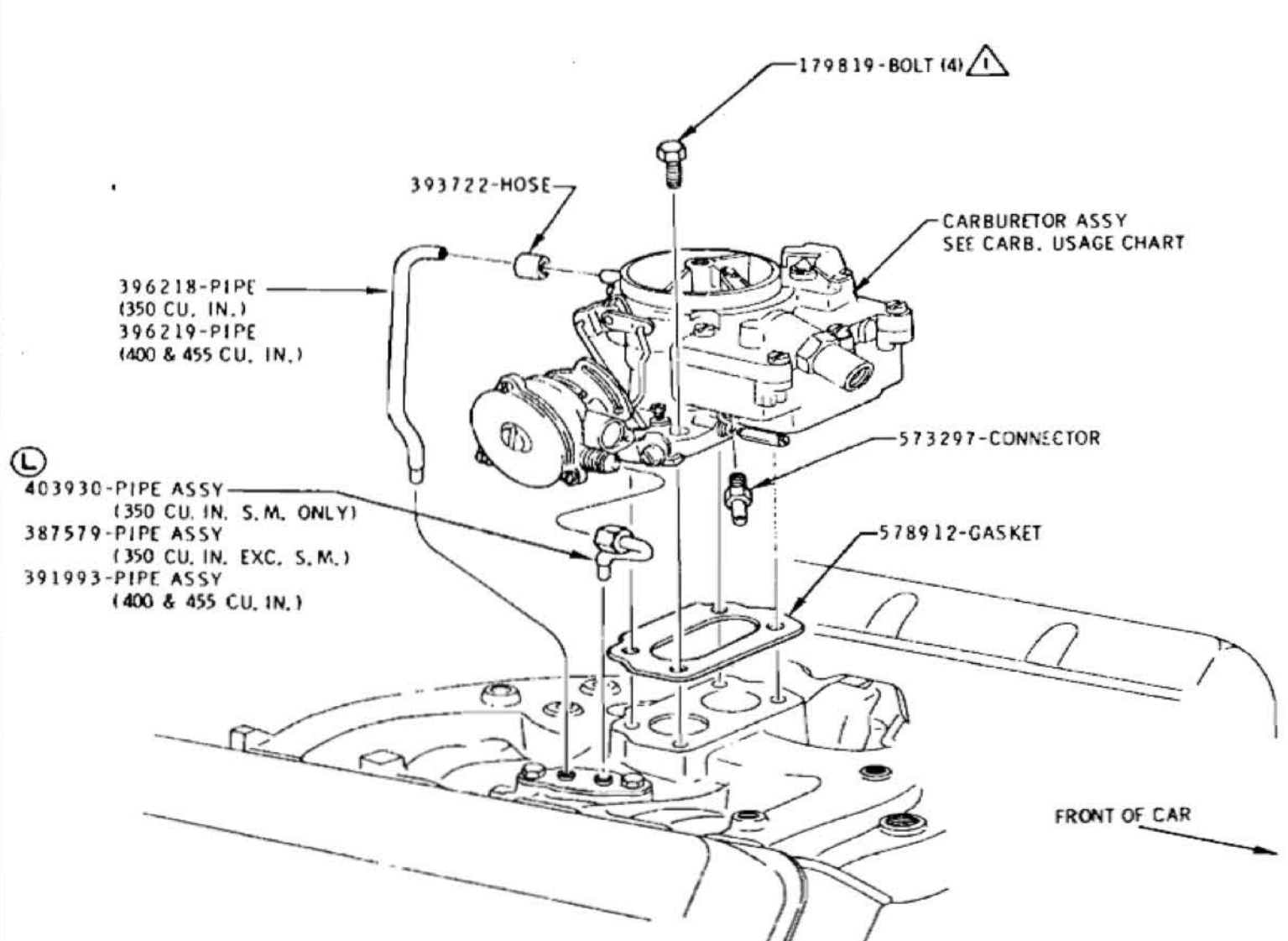
664 ENGINE



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

⚠ 10-15 LB. FT.

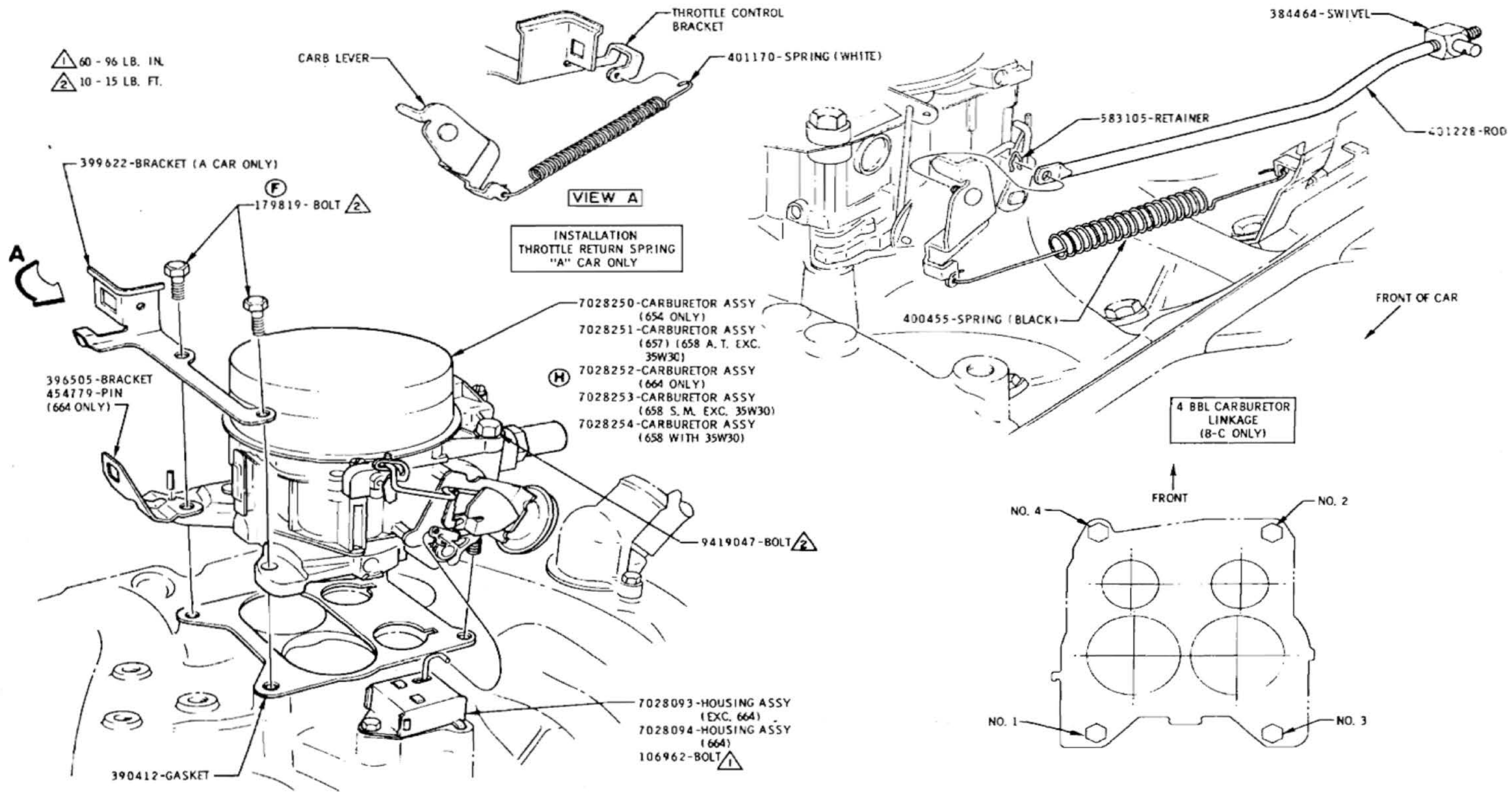
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
					10-3-67	E	REVISED REDENHORN	CM								INTAKE MANIFOLD VACUUM FITTINGS & PLUGS	1968	6-0	118	
					6-15-67	D	WAS 303030	CM								DATE APRIL 5, 1967				
					5-1-67	C	USAGE REVISED	CM								DR BY CURT MAY				
					2-18-67	B	WAS 580826-CONN	CM								CHECKED BY [Signature]				
					4-18-67	A	WAS 65°	CM								APPR [Signature]	REF 1A2C 56-62 67.5-35C10	SERIES A-B-C-E	PART NO. 398162-3-4	



2 BBL. CARBURETOR USAGE CHART						
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
	7028157	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.

					42568	K	WAS 401663	CPM	9-7-67	E	REVISED TO DETAIL	CP	AS	TITLE	2 BBL CARB. & THROTTLE CONTROL ROD				
					42268	J	GREEN WAS SILVER	CPM	7-3-67	D	VIEW ADDED	CPM	CP	DATE MARCH 3, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					42668	H	WAS 7028156	CPM	6-19-67	C	TO 28158 ADDED	CPM	CP	DR BY CURET MAY	REF. 6M1 - 6N2 35L65	SERIES	A-B	6-0	122
					102511	G	PART NO REMOVED	CPM	6-6-67	B	WAS ADORSI ROD ASSY	CPM	CP	CHECKED/MT2/ambant	35M31	(7A)			
					52763	L	PART NO ADDED	CPM	10-3-67	F	PART NOS REMOVED	CPM	CP	APPR. F. ROBINSON					
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.	F	REVISION	DATE	

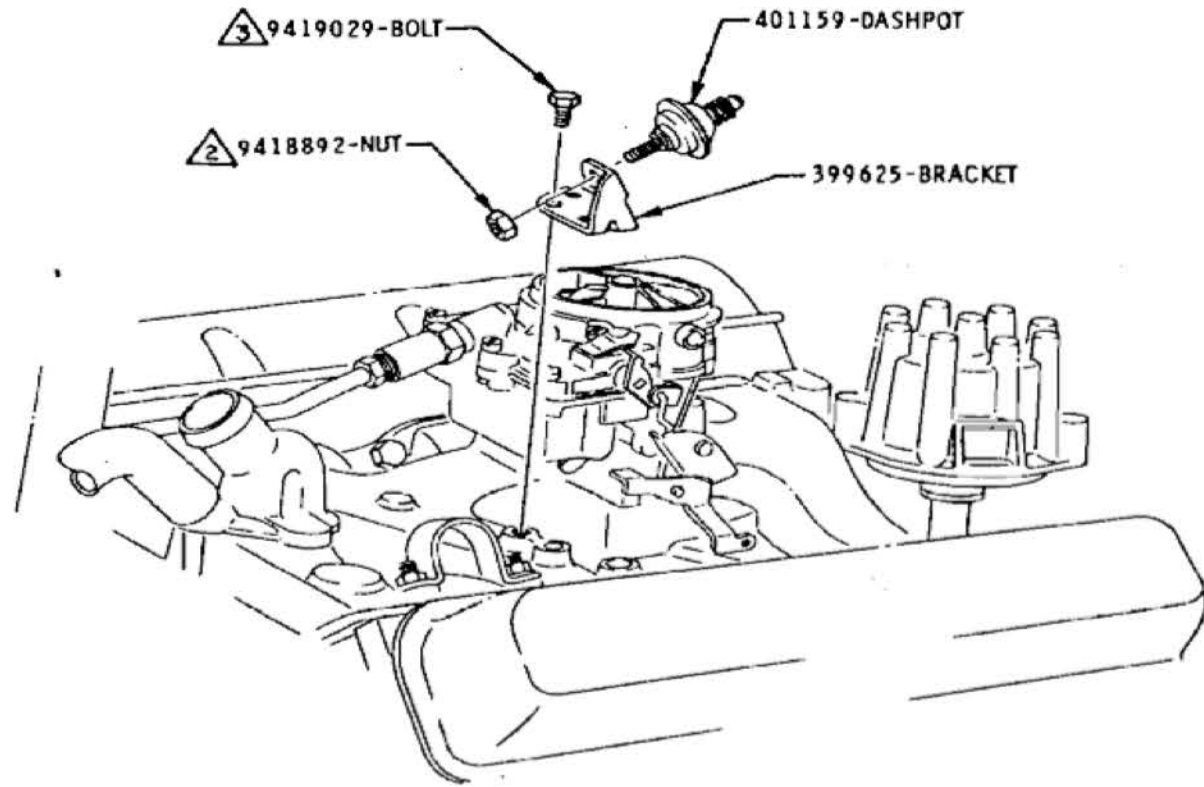


INSTALLATION CARBURETOR ALL CARS

FOR THROTTLE ADJUSTMENT SEE CHART ON PAGE 119

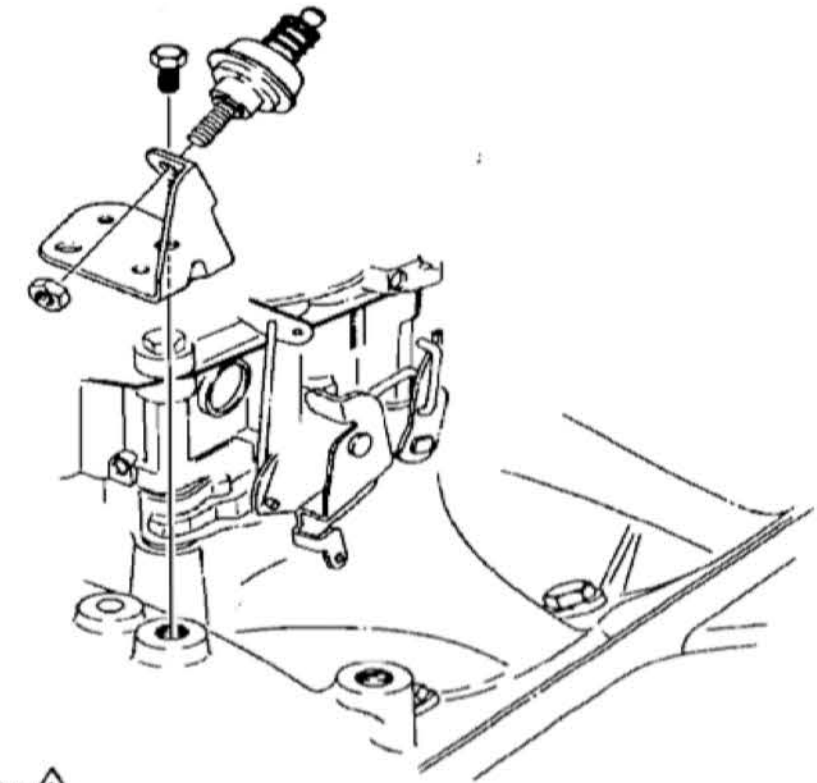
- ① STEP 1 - TIGHTEN FASTENERS 1 & 2 SIMULTANEOUSLY ▲
- ② STEP 2 - TIGHTEN FASTENERS 3 & 4 SIMULTANEOUSLY ▲

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
					10-8-67	E	PART NO ADDED									CARBURETOR AND LINKAGE - 4 BBL.				
					7-3-67	D	VIEW ADDED									DATE APRIL 5, 1967	1968		6-0	123
					4-29-68	H	PART NO'S REVISED									DR. BY CURT MAY				
					12-21-67	Q	TIGHTENING SEQUENCE REV.									CHECKED JTB				
					11-15-67	F	WAS STUDÉ NUT									APR 24 1968	REF. 6M1 6N2	SERIES AB-C-E	PART 398162-3-4	

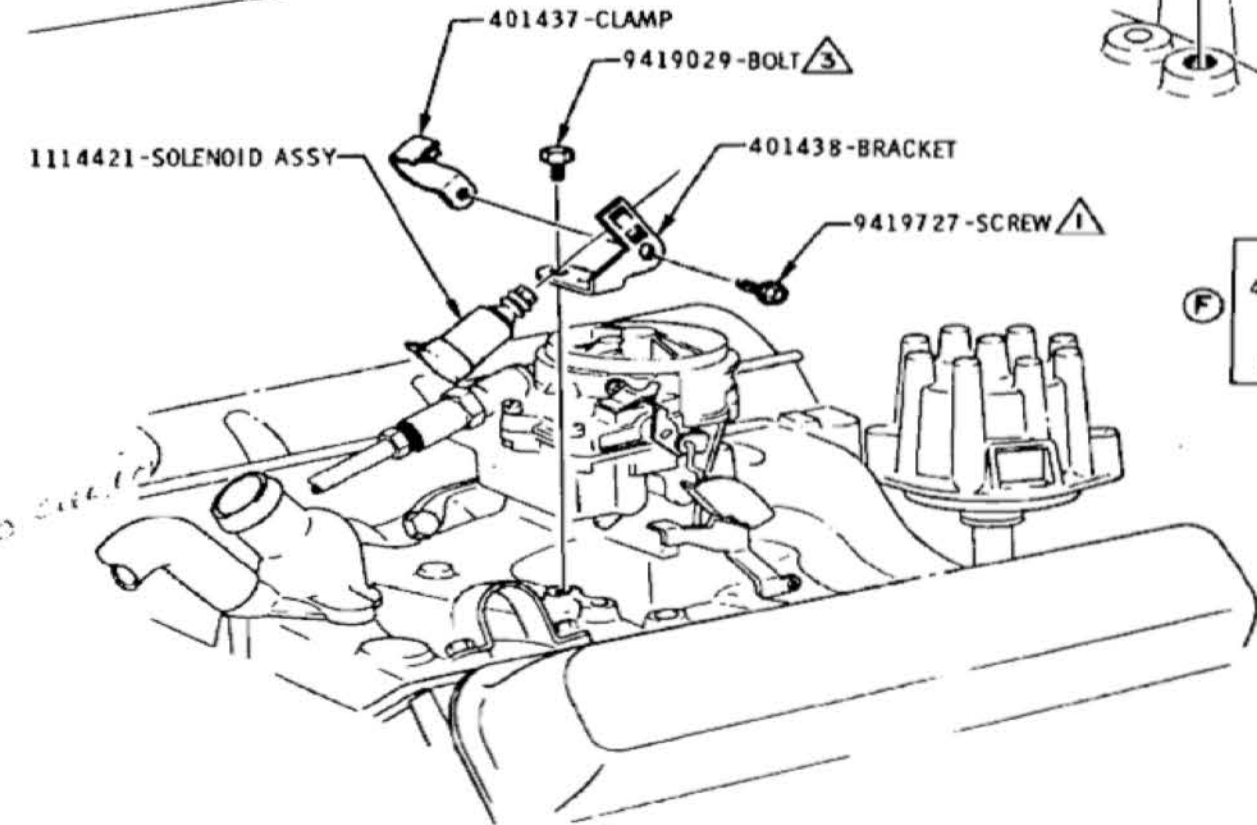


(F) INSTALLATION
2BBL DASHPOT TO MANIFOLD
658 A. T. WITH 35C60
657 A. T. WITH 35C60, 35C61

310 654 5-85-48
455 657 B/C
600
457 600 TORO



(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

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

- 1 30-60 LB. IN. (G)
- 2 96-132 LB. IN.
- 3 14-17 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
					7-3-67	E	TORQUES REVISED	SR	MS							TITLE THROTTLE CONTROL DASHPOT AND SOLENOID ASSEMBLY				
					7-3-67	D	VIEW ADDED	CM	MS							DATE APRIL 4, 1967	1968		6-0	124
					6-6-67	C	REVISED TO DETAIL	CM	MS							DR. BY CURT MAY				
					6-6-67	B	WAS 9287873	CM	MS							CHECKED BY Sam Hart				
					4-14-67	A	TITLE REVISED	CM	MS							APPR. R. ROZMONSKI	REF. 35M33, M40, M41	SERIES A-B-C	PART NO. 398162-3	

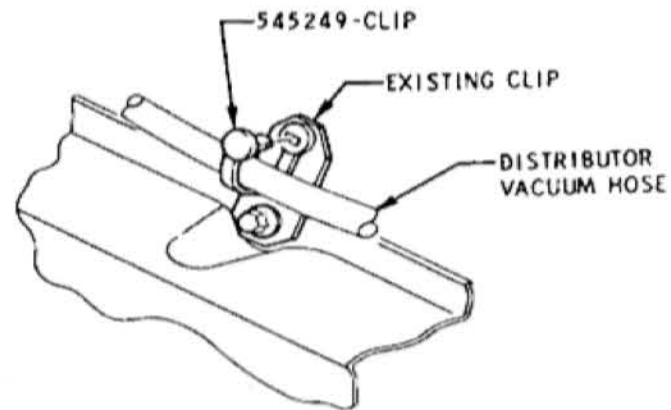
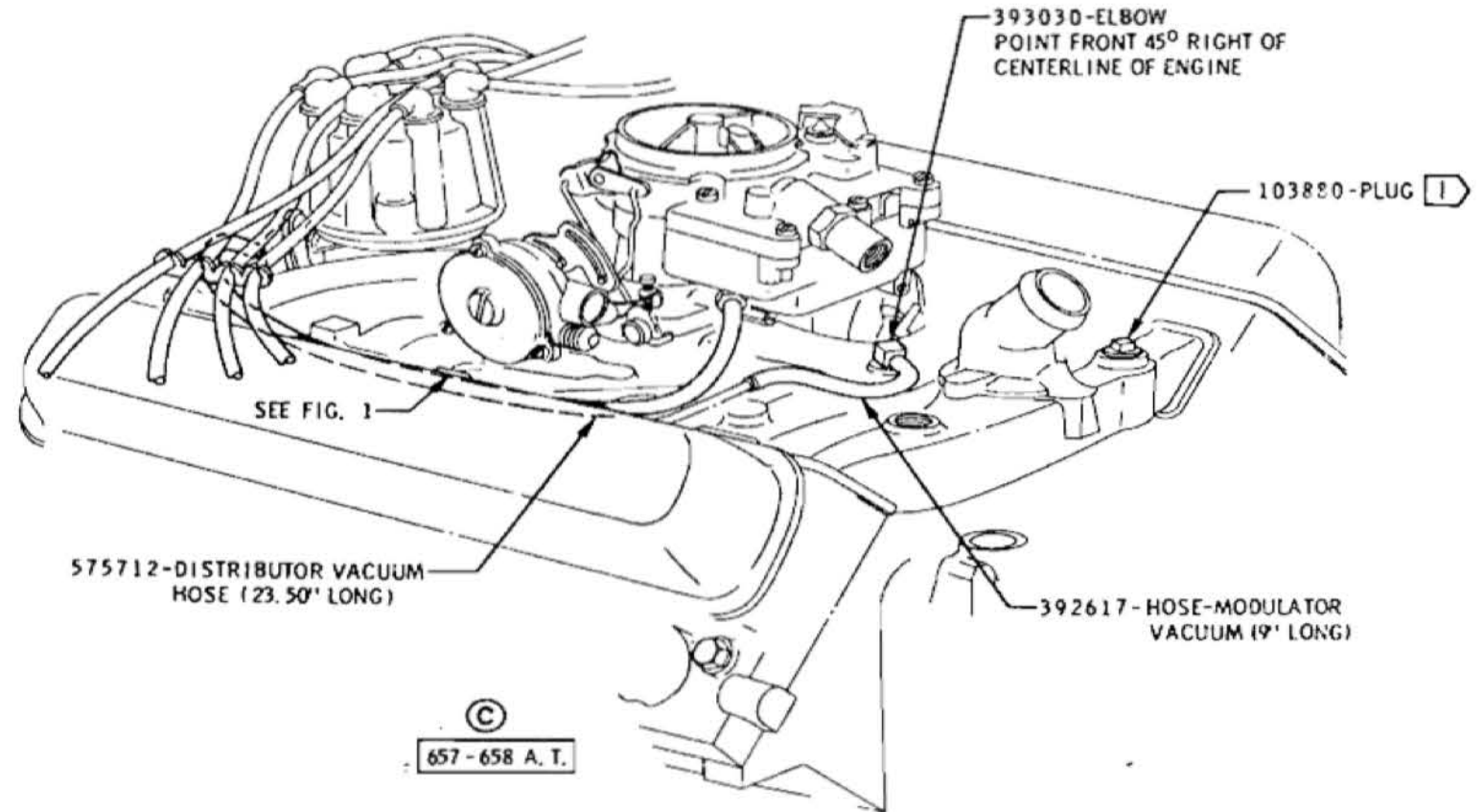
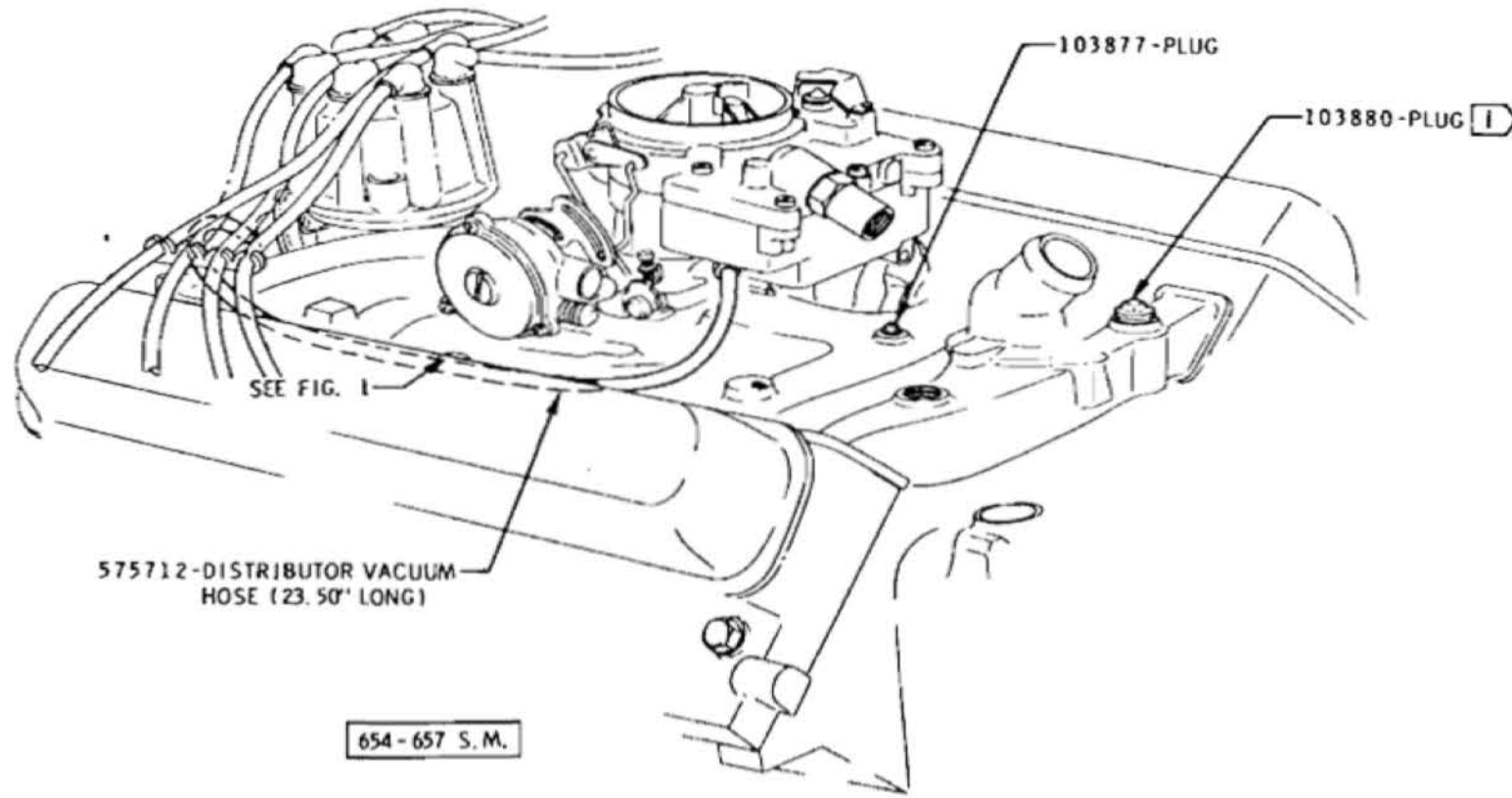
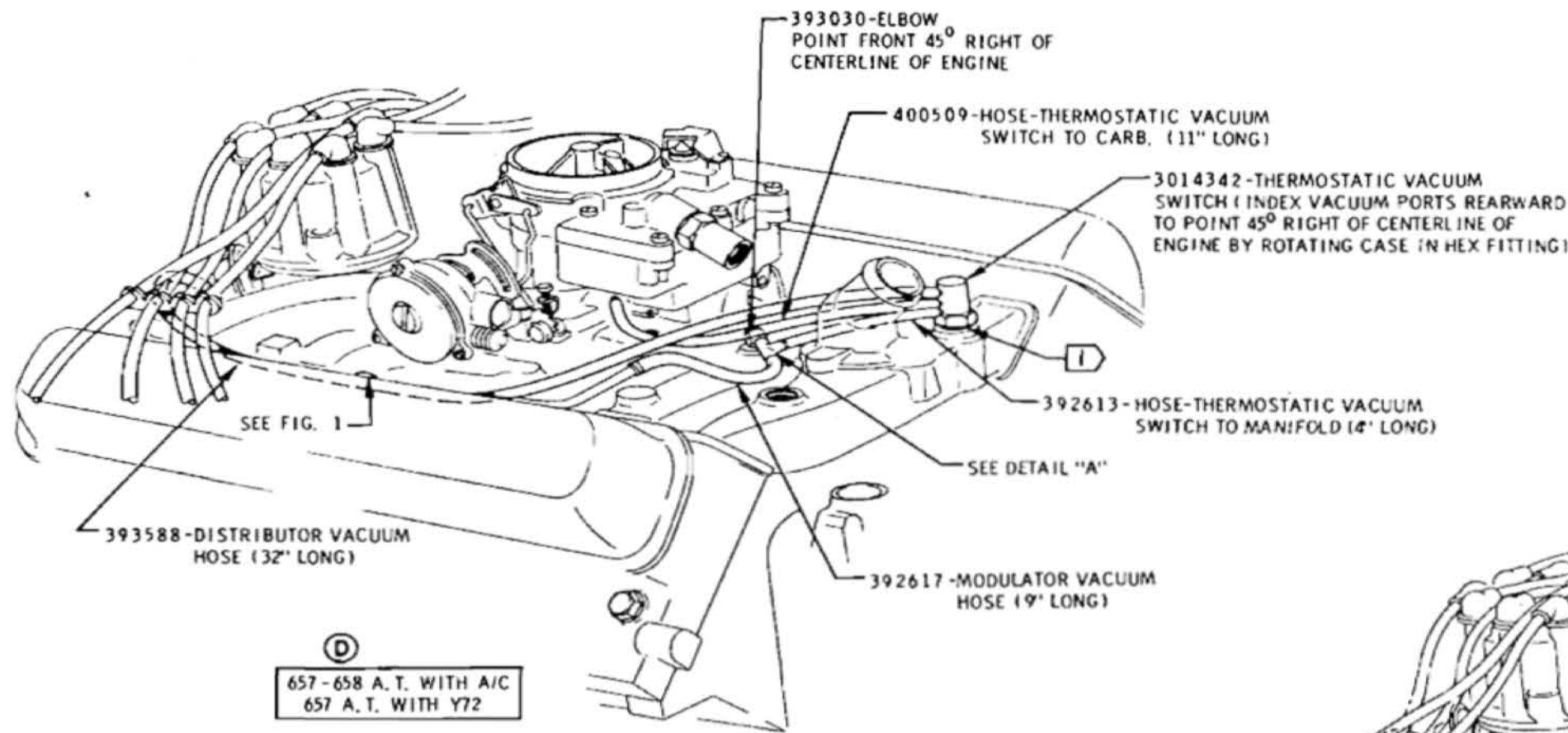


FIGURE 1

INSTALLATION
DIST. VAC. HOSE CLIP

APPLY SEALER 9285000
B 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
																ENGINE VACUUM HOSES (2BBL. CARB. EXC. A/C & 654 A.T.) (E/C)	1968	6-0	126	
		1-31-68	C2				NOTE & TITLE REV								DR. BY CURT MAY					
		10-8-67	B				NOTE ADDED								CHECKED M30rnhart					
		8-23-67	A				REV & REDRAWN								APPR. J. P. Ford					
																	REF 6L, 6Y3			
																		SERIES	PART NO	
																		A-B	393162-3	



657-658 A.T. WITH A/C
657 A.T. WITH Y72

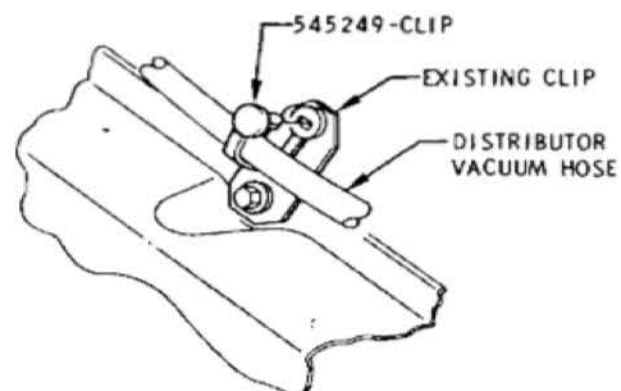
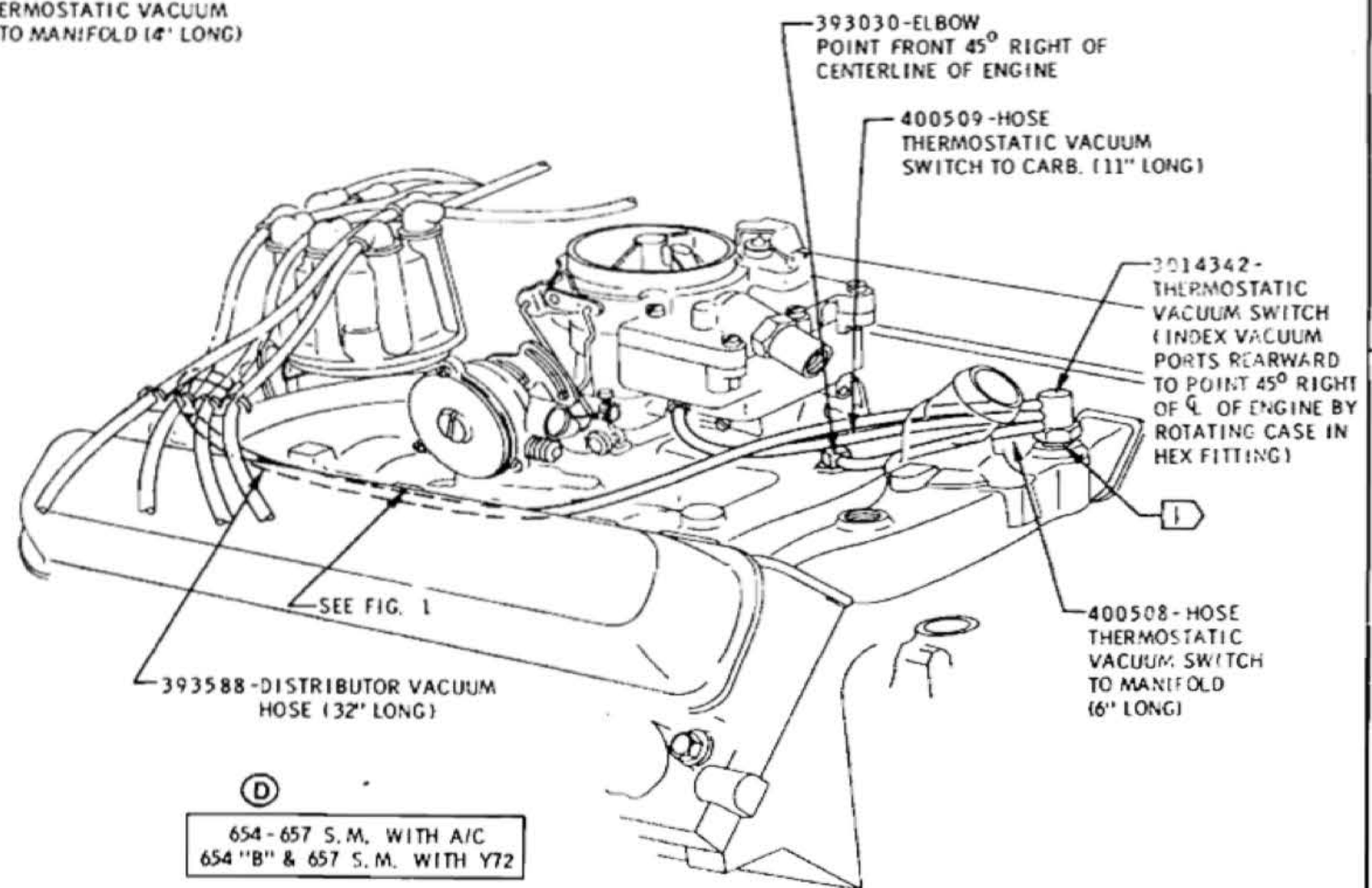
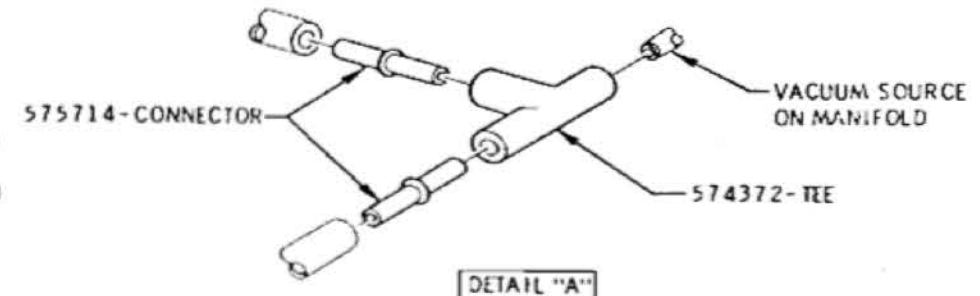


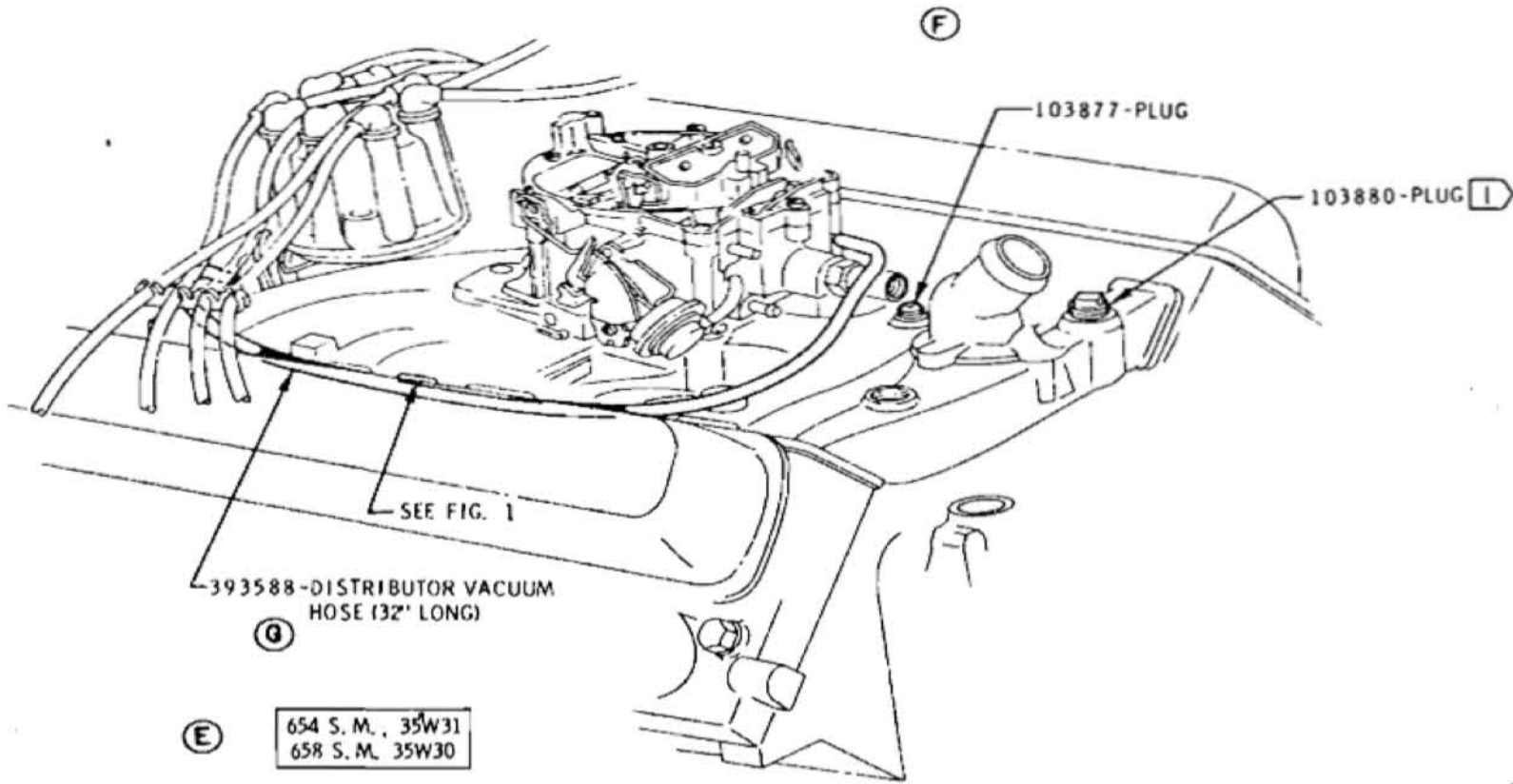
FIGURE 1
INSTALLATION
DIST. VAC. HOSE CLIP



654-657 S.M. WITH A/C
654 "B" & 657 S.M. WITH Y72

APPLY SEALER 998500 TO
© AREAS INDICATED
PRIOR TO ASSY

				TITLE ENGINE VACUUM HOSES (2BBL. CARB. WITH A/C EXC. 654 A.T.)					
1-31-68	D ₁	NOTES & TITLE REV	OM/MS	DATE APRIL 5, 1967	FIRST USED	OLDSMOBILE PRODUCT	MANUAL 51	PAGE	
10-8-67	C	NOTE ADDED	OM/MS	DR BY CURT MAY	1968	INFORMATION MANUAL	6	127	
8-23-67	B	REV & REDRAWN	OM/MS	CHECKED [signature]					
7-27-67	A ₂	NOTES REVISED	OM/MS	APPR [signature]					
						SERIES	PART NO.		
						A-R	398160-3		



654 S. M., 35W31
658 S. M., 35W30

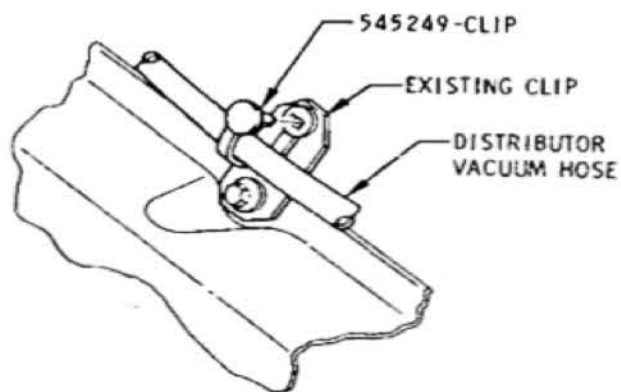
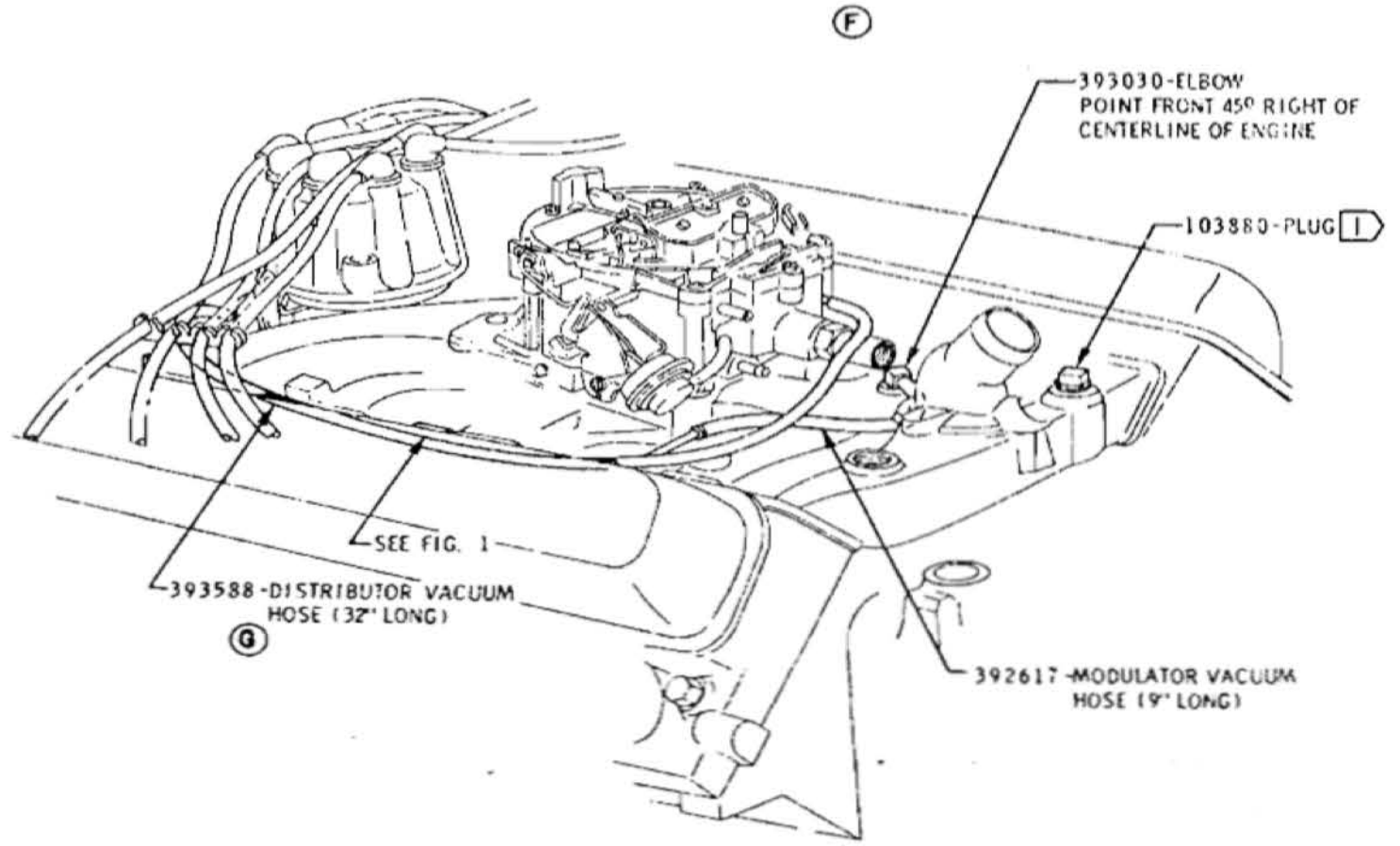


FIGURE 1

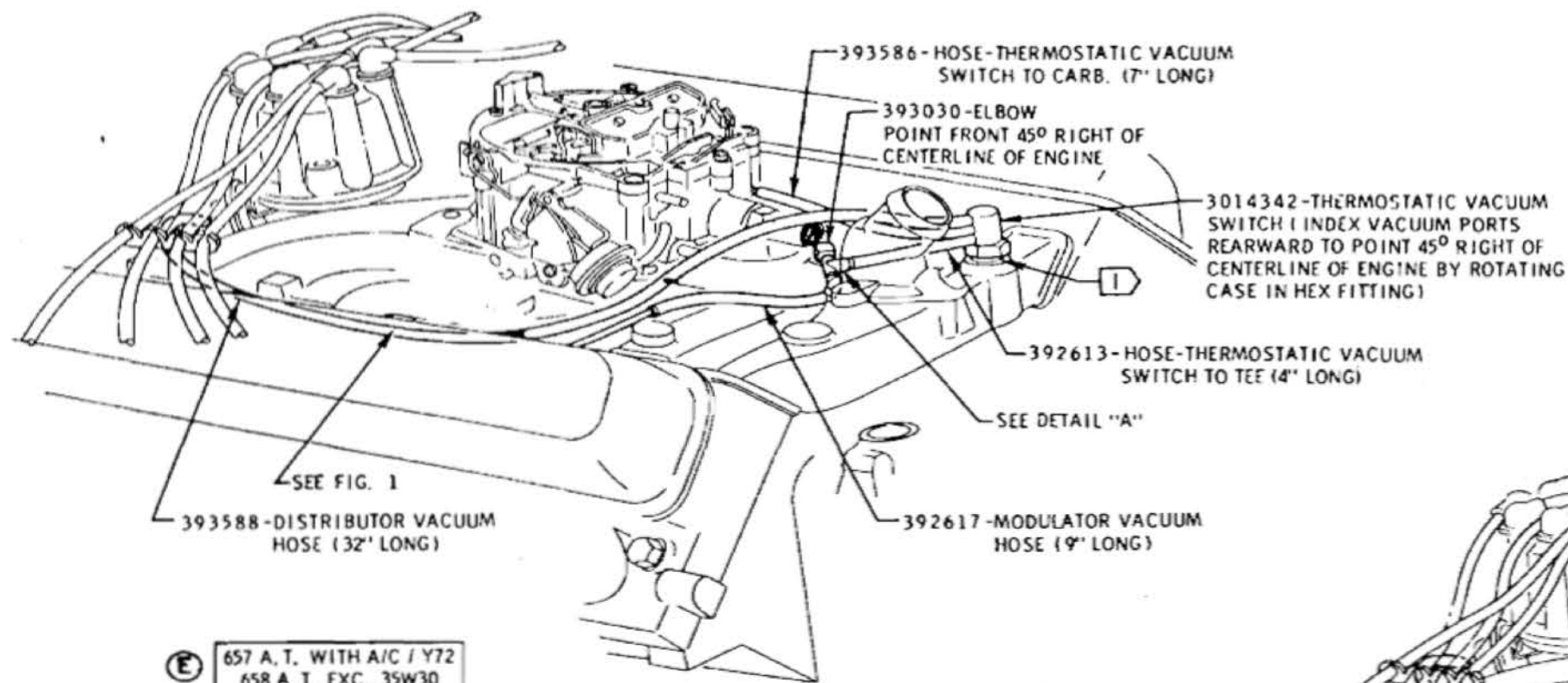
INSTALLATION
DIST. VAC. HOSE CLIP



657 A. T.
658 A. T., 35W30

APPLY SEALER TO
AREAS INDICATED
PRIOR TO ASSEMBLY

DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	SERIES	PART NO	PAGE	
					2-1-68	EG	NOTES & TITLE REV								ENGINE VACUUM HOSES 14 RBL, CARB. EXC. A/C & Y721						
					10-8-67	D	NOTE ADDED								DATE APRIL 5, 1967	1968				128	
					8-23-67	C	REV & REORDERING								DR BY CURT MAY						
					0-29-68	G	35W30 (35W31) REM	OM		6-19-67	B	CAP NO. ADDED			CHECKED						
					4-29-68	F	9781338 - REMOVED	HR		5-7-67	A	35W30 INSTD. ADDED			APPR.						
																		A-B-C	398162-3		



657 A.T. WITH A/C / Y72
658 A.T. EXC. 35W30

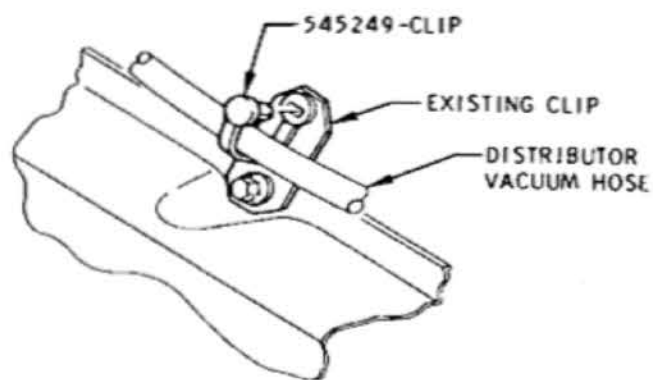
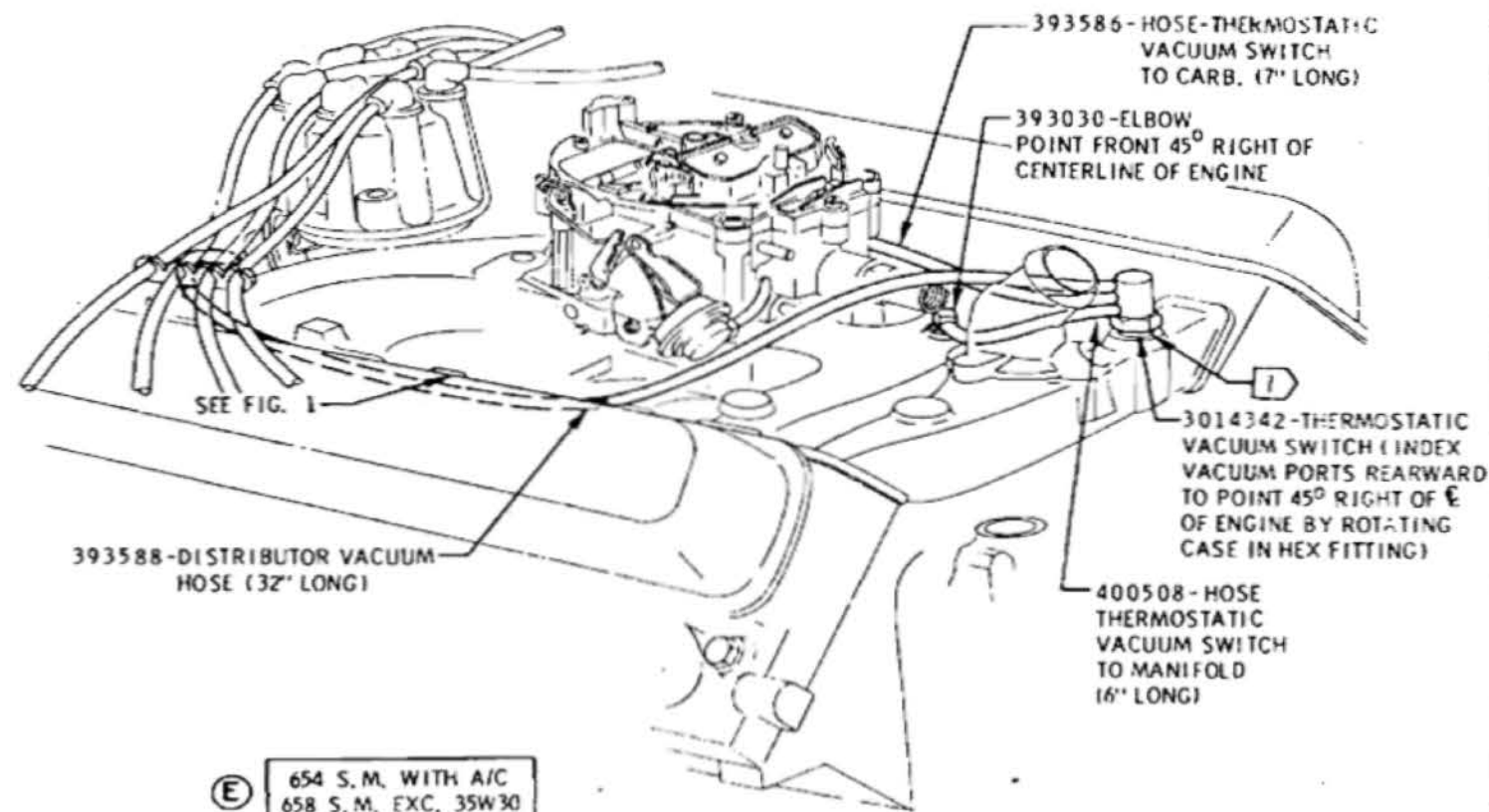
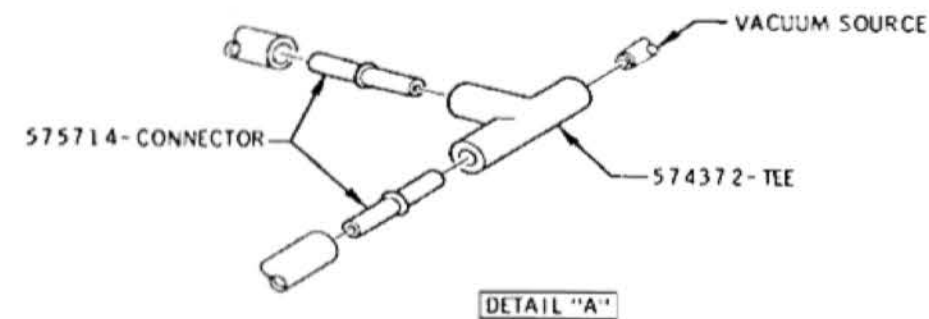


FIGURE 1

INSTALLATION
DIST. VAC. HOSE CLIP



654 S.M. WITH A/C
658 S.M. EXC. 35W30

APPLY SEALER 998162 TO
AREAS INDICATED BY (D) 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 NO.	PAGE
2-1-68	E ₁	NOTES & TITLE REV.													CMP	ENGINE VACUUM HOSES 14 BBL. CARB. EXC. 654 A.T. WITH A/C	1968	6	129	
10-4-67	D	NOTE ADDED													CMP	DATE APRIL 5, 1967				
8-23-67	C	REV. E REDRAWN													CMP	DR. BY CURT MAY				
7-27-67	B ₂	NOTES REVISED													CMP	CHECKED <i>[Signature]</i>				
7-27-67	R ₁	NOTE REVISED													CMP	APPR. <i>[Signature]</i>				
																	SERIES	PART NO.		
																	A-B-C	398162-3		

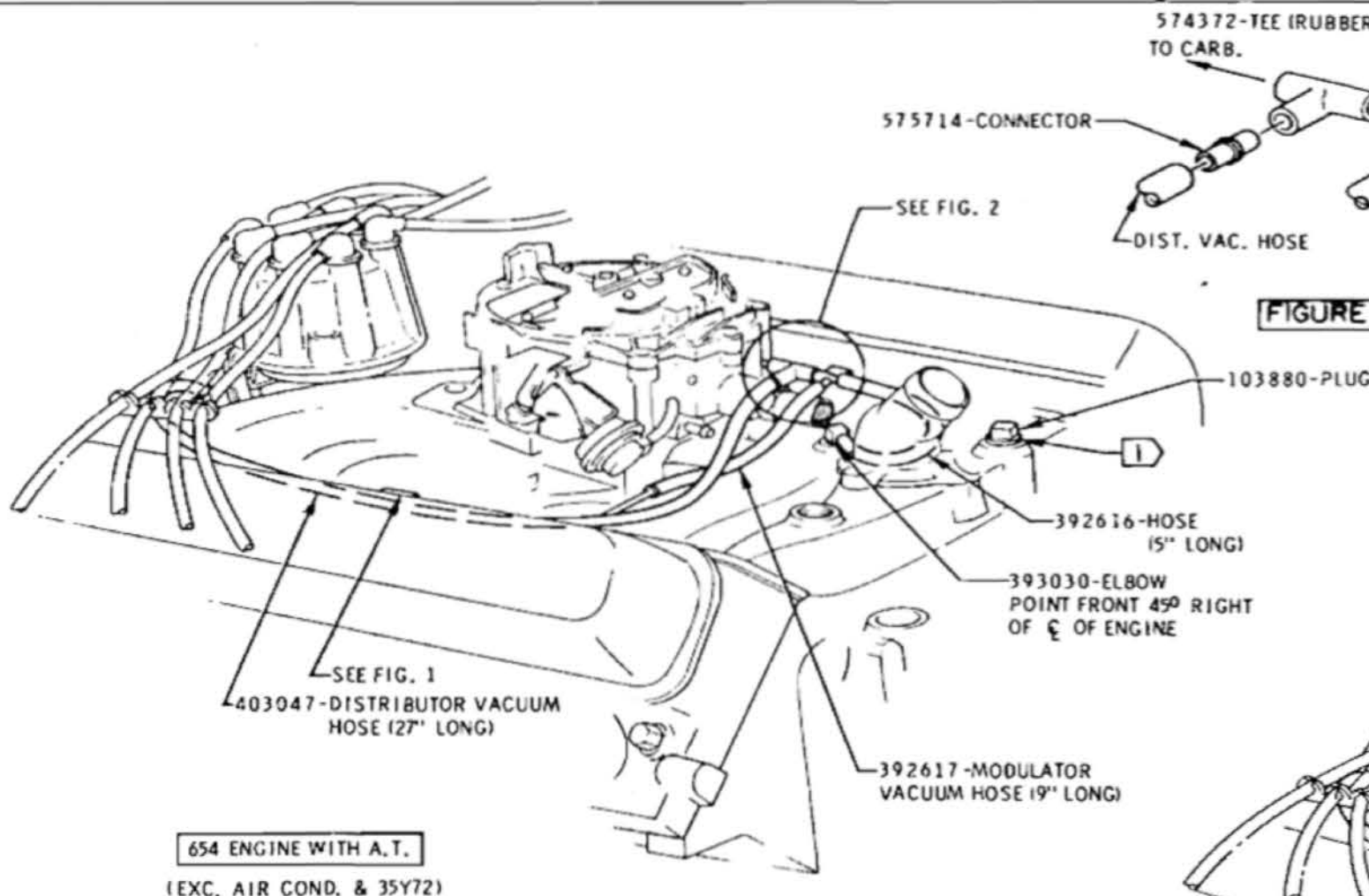


FIGURE 2

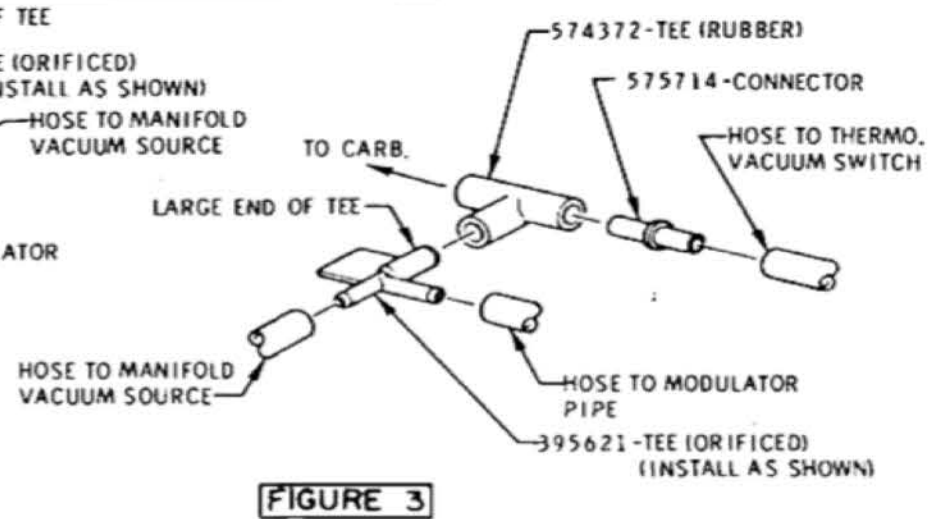
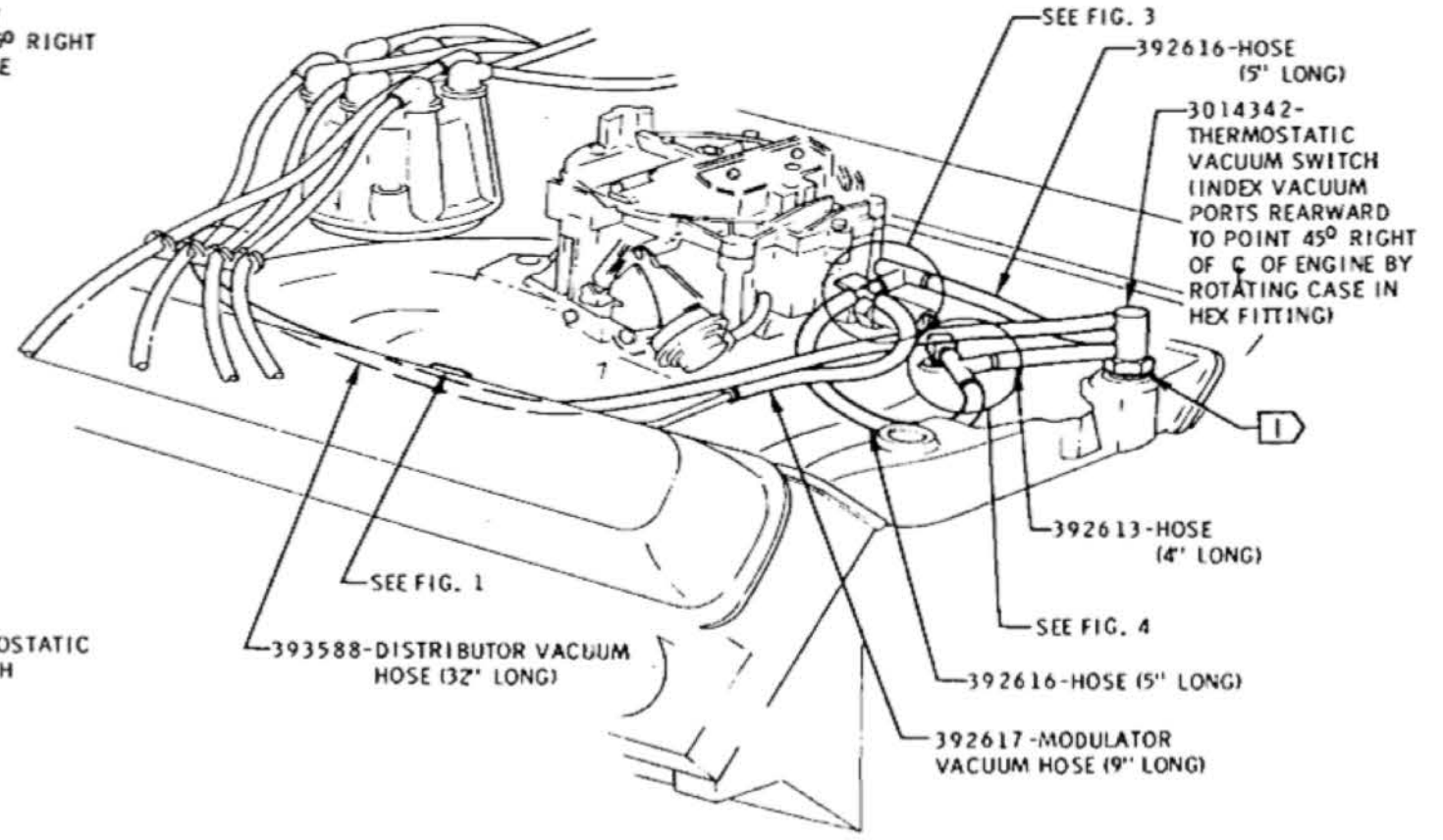


FIGURE 3



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

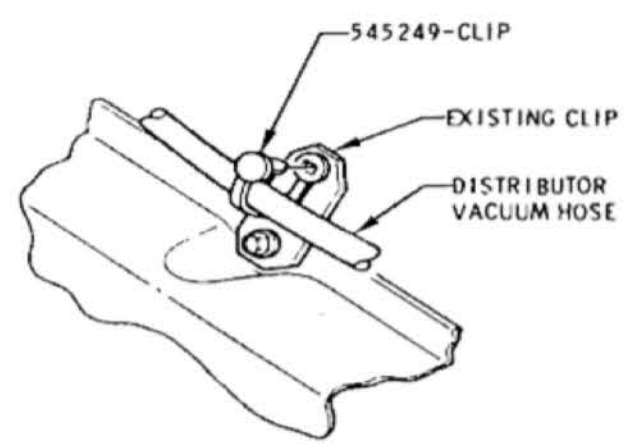


FIGURE 1
INSTALLATION
DIST. VAC. HOSE CLIP

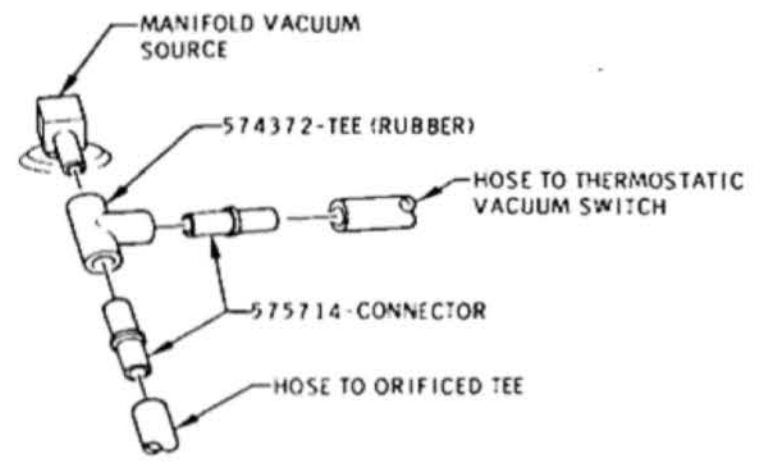


FIGURE 4

APPLY SEALER 9985000 TO
AREAS INDICATED 1
PRIOR TO ASSY

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

TITLE VACUUM HOSE 350 CU. IN. 4 BBL. CARB. WITH AUTO. TRANS.											
DATE <i>FEBRUARY 1, 1968</i>			FIRST USED 1968			OLDSMOBILE PRODUCT INFORMATION MANUAL			MANUAL SEC. PAGE 6-0 131		
DR. BY <i>CUPT MAY</i>			CHECKED <i>MPB</i>			APP. <i>23 26</i>			REF. 35060 <i>11-31, Y72</i>		
SERIES A-B						PART NO. 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)

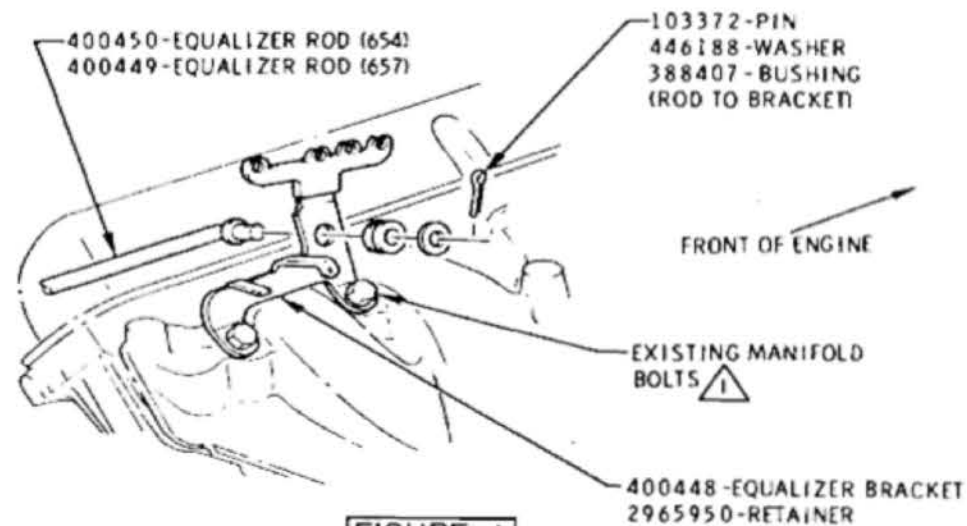
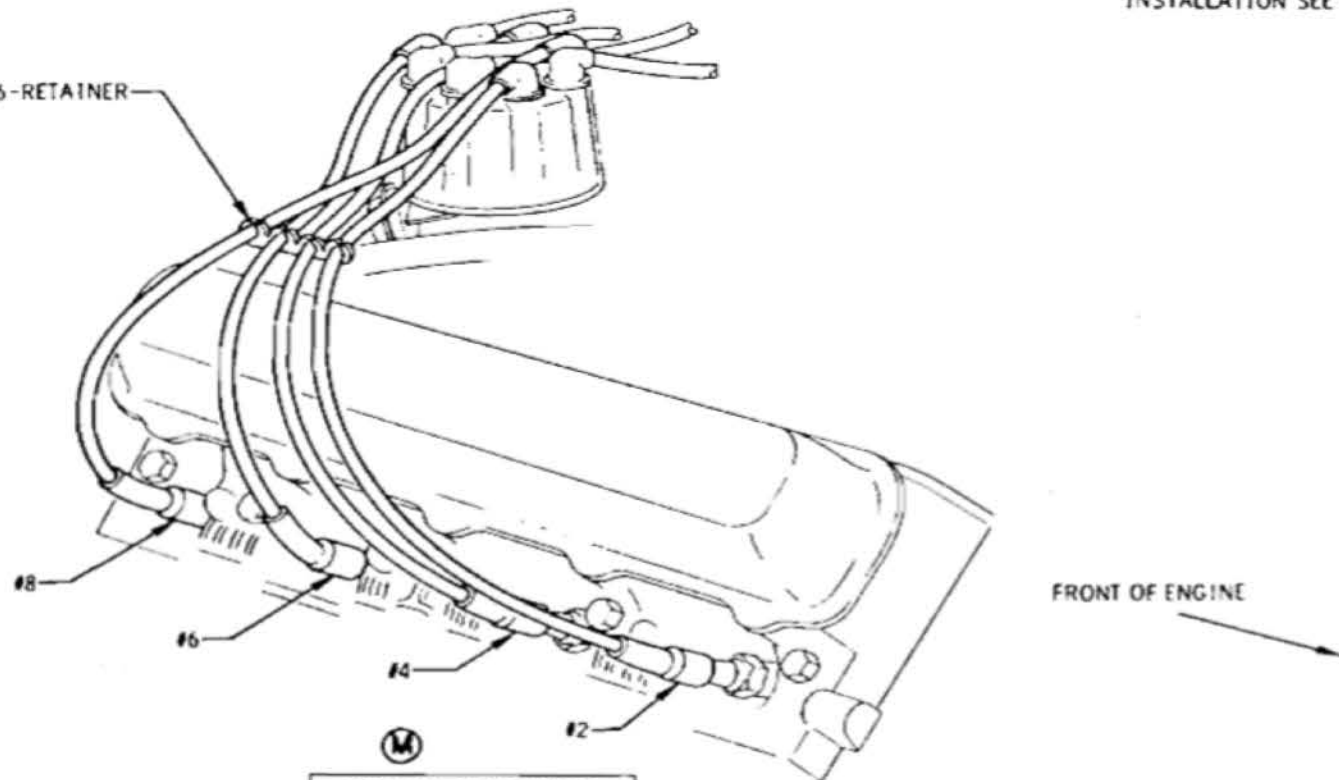


FIGURE 1

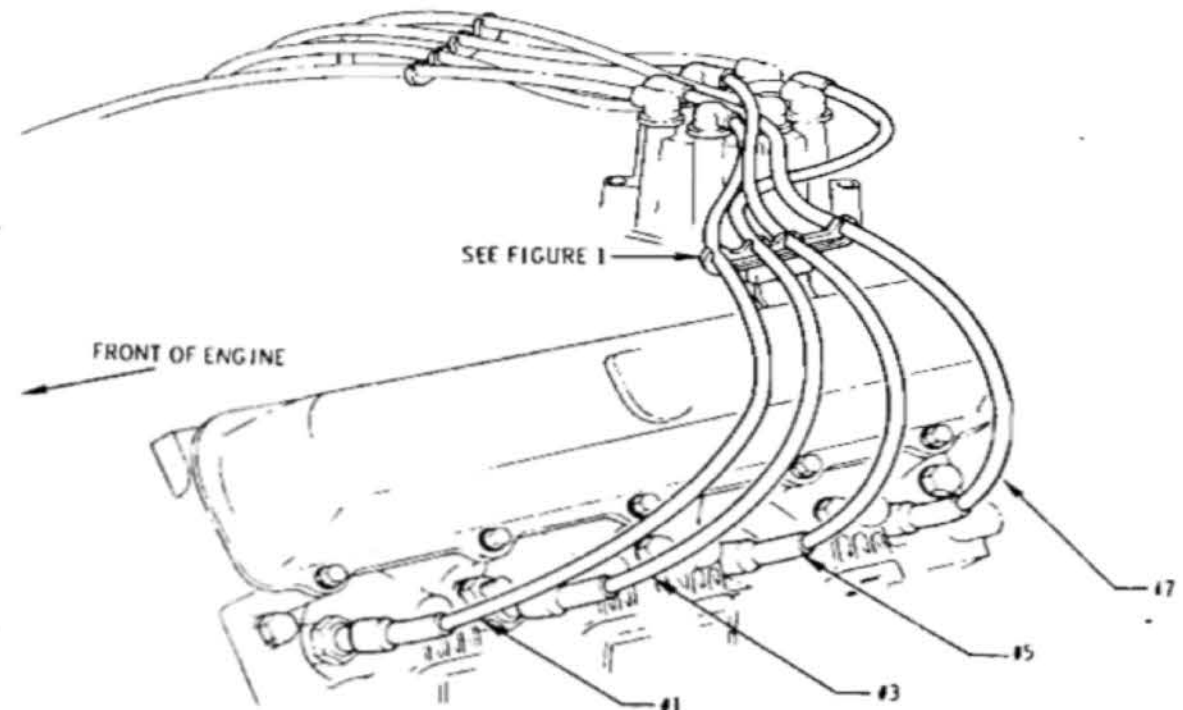
(ALL "B-C" CARS)
FOR "A" CAR BRACKET
INSTALLATION SEE PAGE 120

2965736-RETAINER



TYPICAL SPARK PLUG
CABLE ROUTING R. H. SIDE

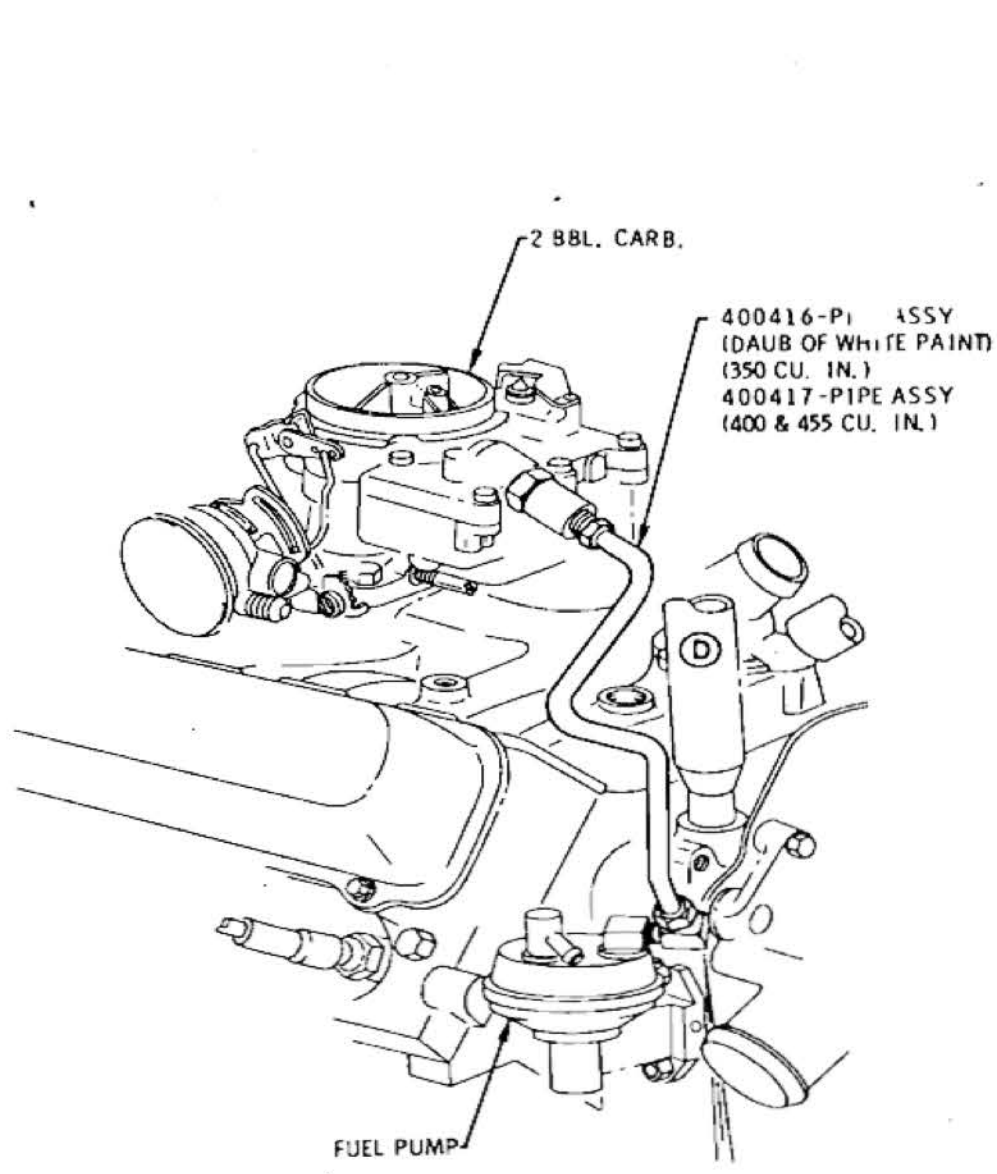
(M)



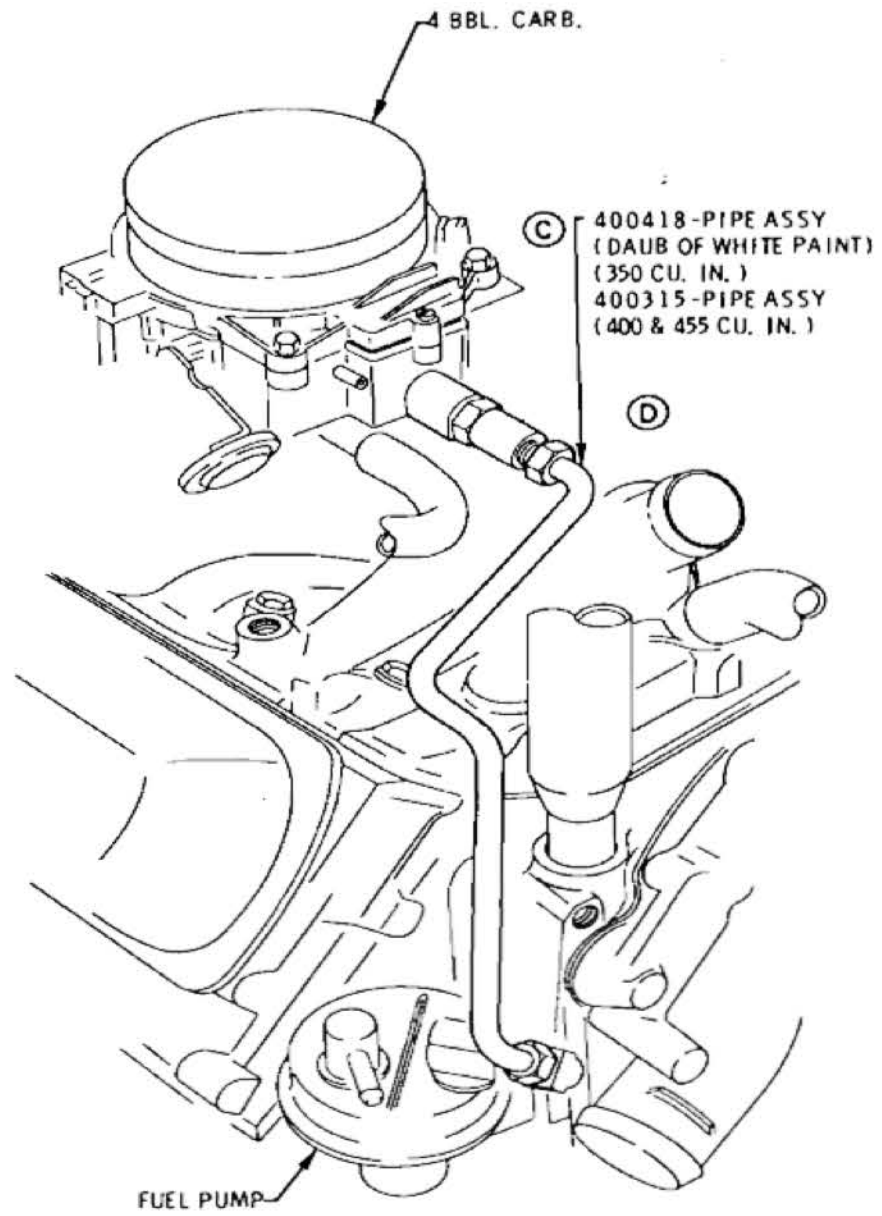
TYPICAL SPARK PLUG
CABLE ROUTING L. H. SIDE

△ 25 - 35 LB. FT.

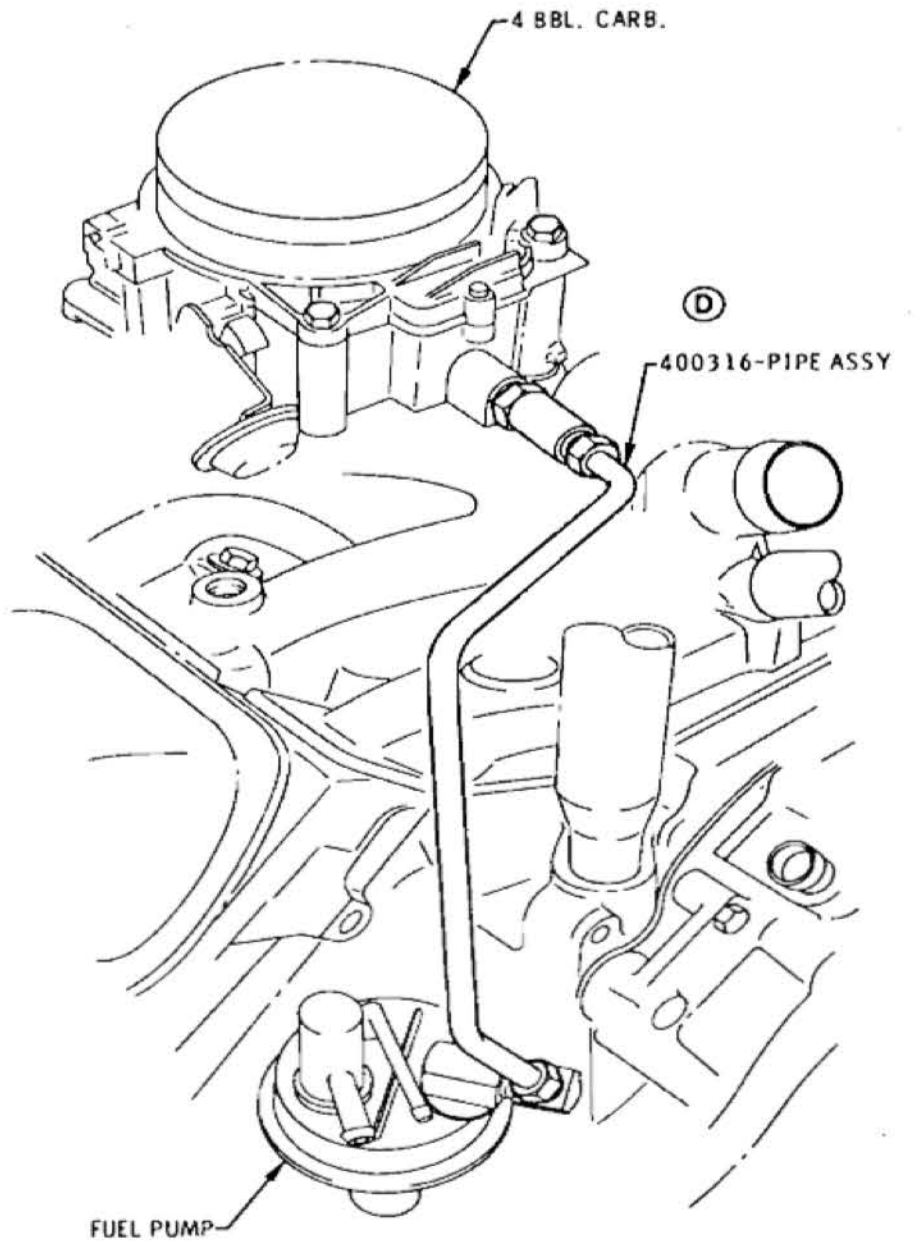
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-11-67	K	654 POLICE ENG REMO	CM	MS	5-29-67	E	BRACKET REVISED	CM	MS		SPARK PLUGS, CABLE ROUTING AND BRACKETS	1968	6N2	6-0	132
				8-25-67	J	VIEW REVISED	CM	MS	4-13-67	D	CHART REVISED	CM	MS							
				6-28-67	H	TORQUE SPECS. ADDED	CM	MS	8-13-67	C	VIEW REMOVED	CM	MS							
11-16-67	M	VIEW REV	CM	MS	6-19-67	G	WAS 2986231	CM	MS	4-13-67	B	PART NO'S ADDED	CM	MS						
11-16-67	L	PART NO'S REV	CM	MS	6-14-67	F	6289080 WAS 6289880	CM	MS	3-3-67	A ₂	PART NO'S ADDED	CM	MS		REF. 674		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

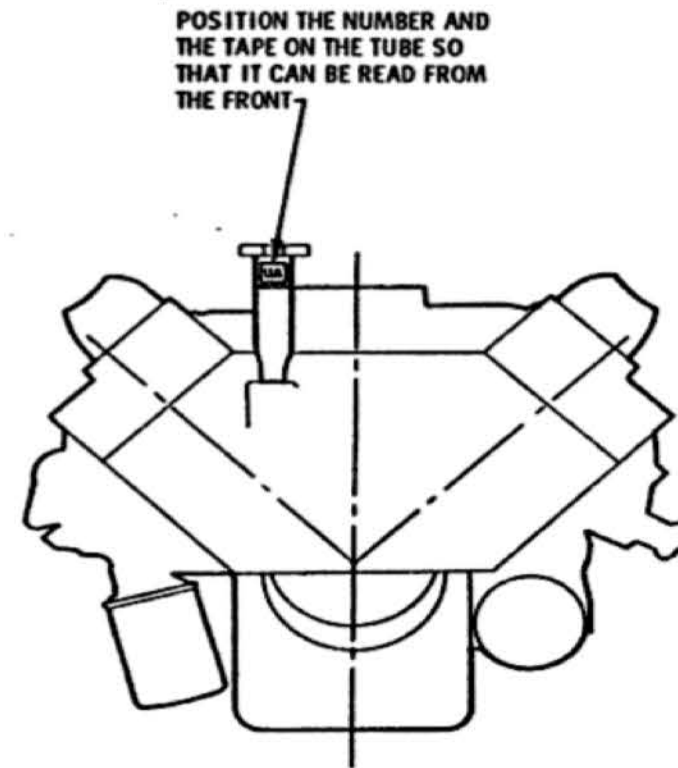
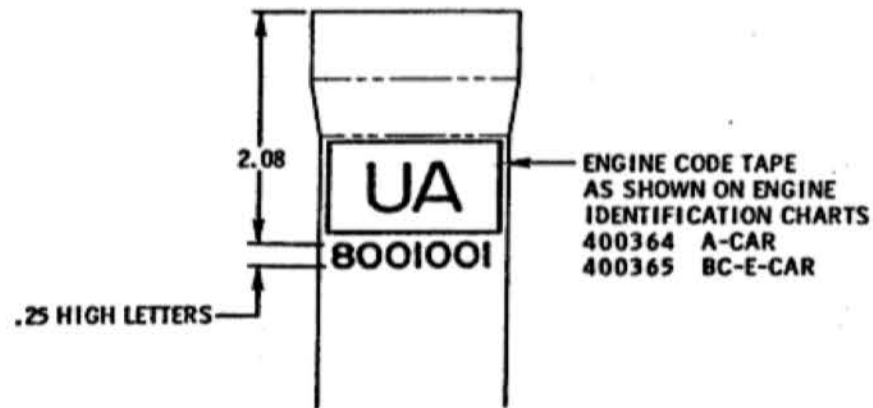


INSTALLATION
PIPE ASSY FUEL PUMP
TO CARBURETOR
"E" ENGINE ONLY

(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	D ₃	BACKGROUND REVISED									FUEL PUMP TO CARB LINES	1968		6-0	133
					6-7-67	C	IDENT. NOTE ADDED									DATE MARCH 30, 1967				
					6-7-67	B	NOTE ADDED									DR. BY CURT MAY				
					4-21-67	A	IDENT. NOTE ADDED									CHECKED <i>[Signature]</i>				
																APPR. <i>[Signature]</i>	REF. 6748	SERIES AB-C-E	PART NO. 398162-3-4	
																	35L65-L74-L76-L77-L78			

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

 ↑ ↑

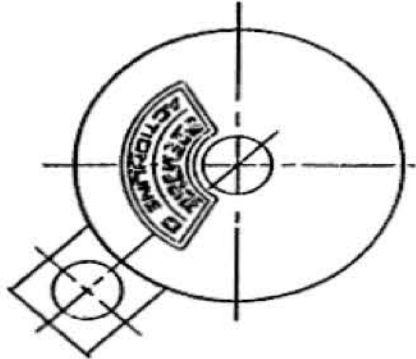
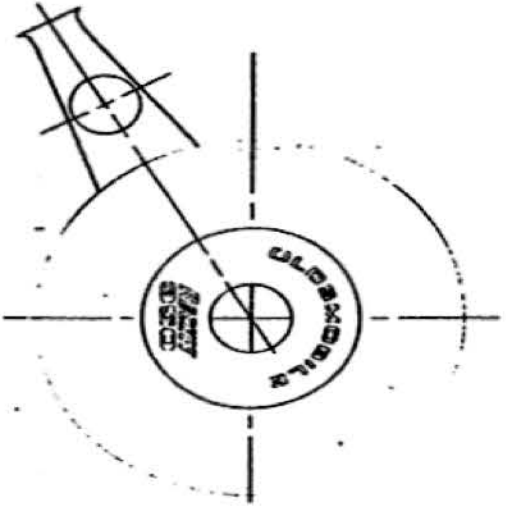
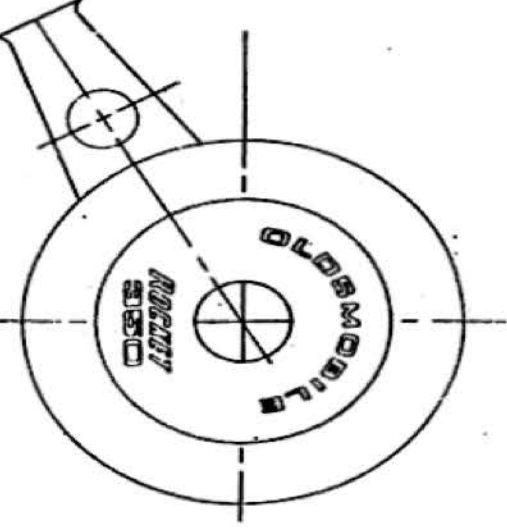
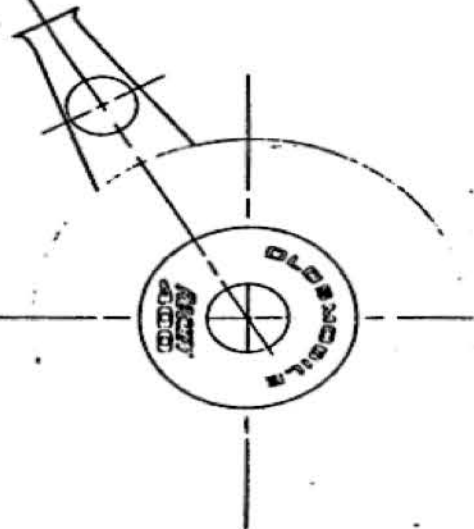
 YEAR UNIT

 ↑

 CODE

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

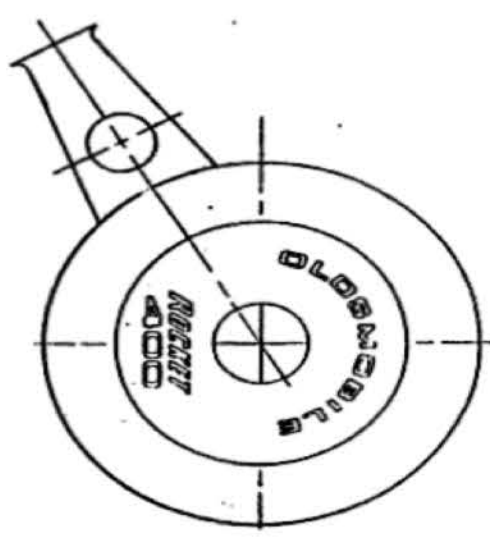
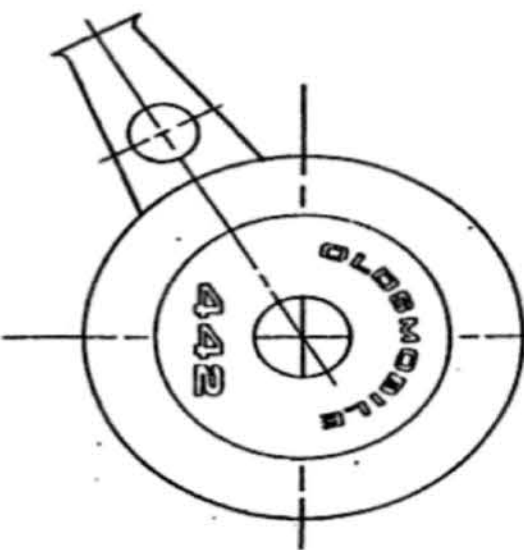
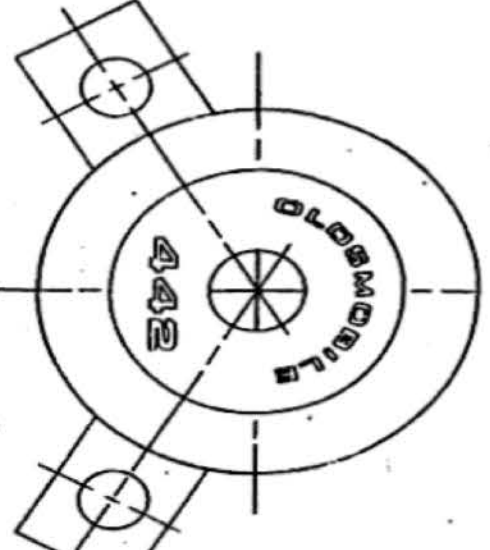
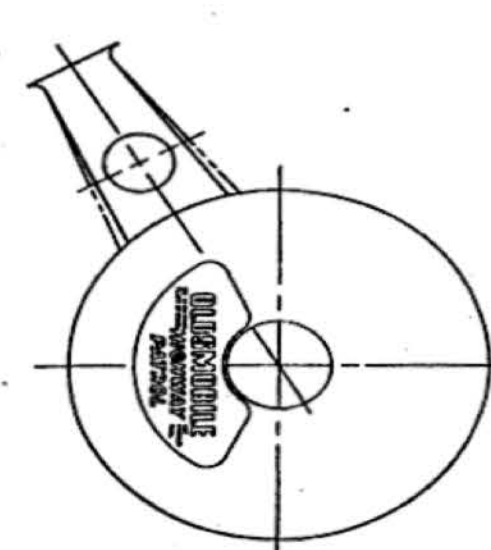
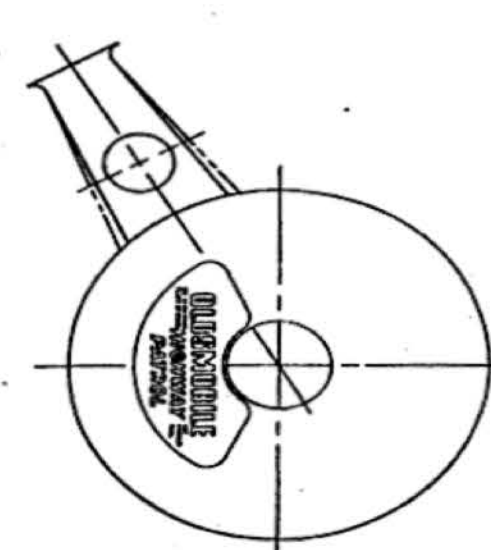
TITLE												CHART - MANUFACTURING ENGINE NUMBER			
DATE <i>MAR. 21, 1967</i>						FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE			
DR. BY <i>D. B. PARKER</i>						1968		INFORMATION MANUAL		6-1		102			
CHECKED <i>J. N. FINE</i>						REF.		SERIES		PART NO.		400960			
APPR. <i>D. B. PARKER</i>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

ENGINE & COLOR	COMPRESSION RATIO	ENGINE CODE	AIR CLEANER (A)			COLOR	AIR CLEANER POSITION FRONT
			LABEL	LABEL CLAMP	PART NO. & ASM. CODE		
290 C.I.D. ACTION LINE 6 1 BBL. GOLD	REGULAR FUEL LOW EXPORT LOW	VA VB VE VF VJ VK	393061	NONE	642423 CODE CD	BLACK	
350 C.I.D. ROCKET 2 BBL. GOLD	REGULAR FUEL LOW EXPORT LOW	QA QB QI QJ QC QK	400643	400652	6483915 CODE OA	BLACK	
350 C.I.D. ROCKET 4 BBL. GOLD	PREMIUM FUEL HIGH EXPORT LOW	QN QP QV QX	400644	392290	6424834 CODE OE	RED	
400 C.I.D. ROCKET 2 BBL. BRONZE	REGULAR FUEL LOW EXPORT LOW	QH	400646	400652	6483915 CODE OA	BLACK	

SHEET 1 OF 2

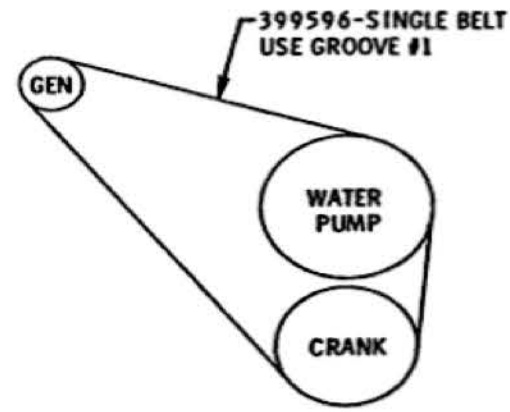
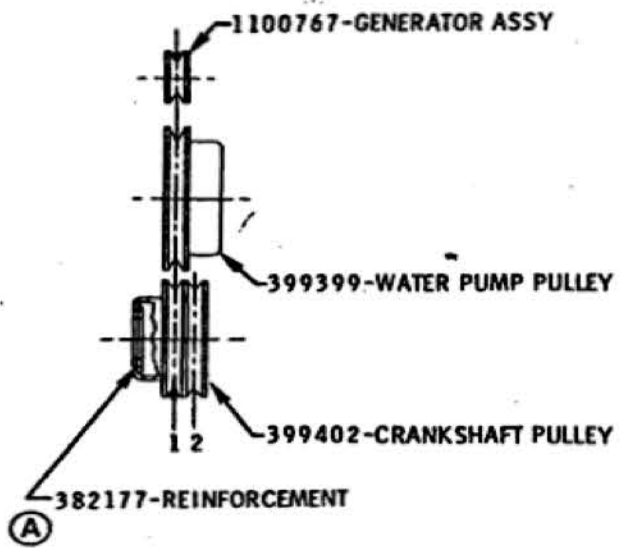
TITLE										CHART - ENGINE APPEARANCE									
DATE <i>APRIL 7, 1967</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE			
DR. BY <i>DON MALKIN</i>										1968		INFORMATION MANUAL		6-1		103			
CHECKED <i>D. LAFOND</i>										REF.		SERIES		PART NO.		401030			
APPR.										REF.		SERIES		PART NO.		401030			
APPR.										REF.		SERIES		PART NO.		401030			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

6-20-67 A COLUMN REVISED

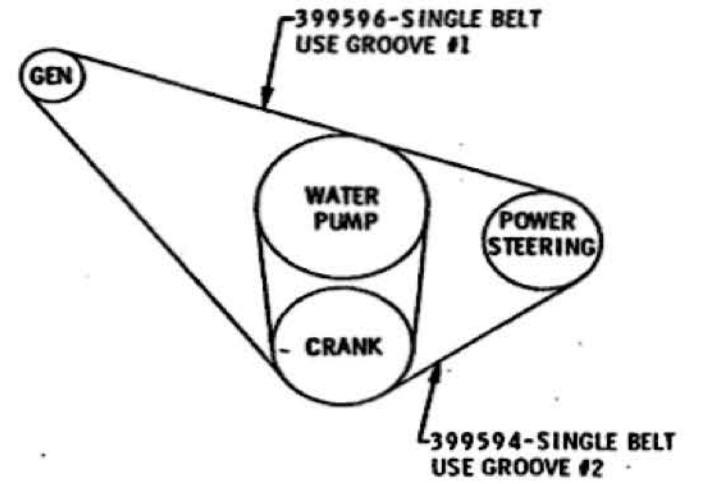
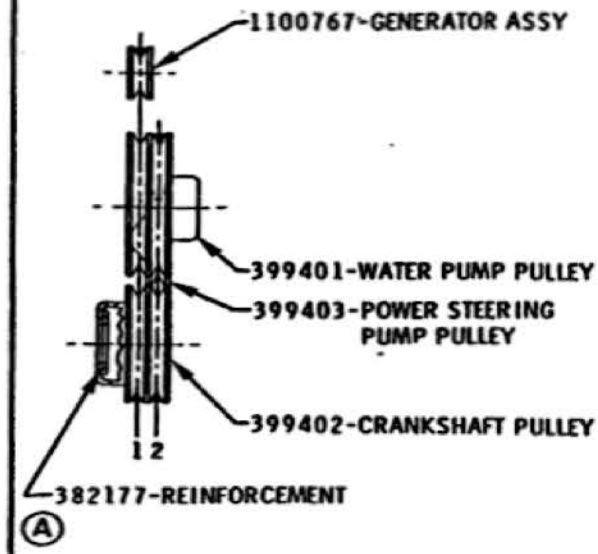
ENGINE & COLOR	COMPRESSION RATIO	ENGINE CODE	AIR CLEANER (A)			COLOR	AIR CLEANER POSITION FRONT
			LABEL	LABEL CLAMP	PART NO. & ASM. CODE		
400 C.I.D. ROCKET 4 BBL. BRONZE	PREMIUM FUEL HIGH	QR QS QW	400647	392290	6424835 CODE OG	RED	
400 C.I.D. 4-4-2 4 BBL. BRONZE	PREMIUM FUEL HIGH	QR QS QW	400645	392290	6424835 EXC. W30 CODE OG	RED	
400 C.I.D. 4-4-2 4 BBL. BRONZE	PREMIUM FUEL HIGH	QT QZ	400645	392290	6424835 WITH W30 CODE OJ	BLACK BOTTOM CHROME COVER (B)	
350 C.I.D. HIGHWAY PATROL 4 BBL. GOLD	PREMIUM FUEL HIGH	QN QP QX	400651	NONE	6424834 CODE OE	RED	
400 C.I.D. HIGHWAY PATROL 4 BBL. BRONZE	PREMIUM FUEL HIGH	QR QS QW	400651	NONE	6424835 CODE OG	RED	

SHEET 2

TITLE										CHART - ENGINE APPEARANCE		FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE		
DATE <u>APRIL 7, 1967</u>										1968				6-1		104				
DR. BY <u>DON MALKIN</u>																				
CHECKED <u>D. LAFOND</u>																				
APPR.												SERIES		PART NO.		401030				
REF.												A								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

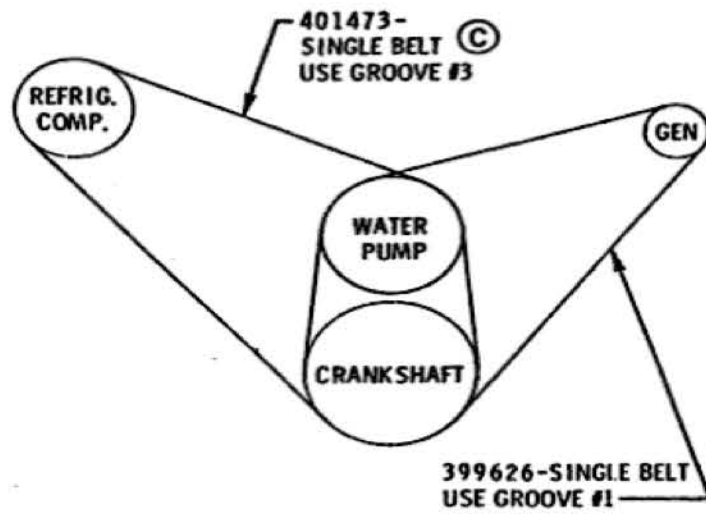
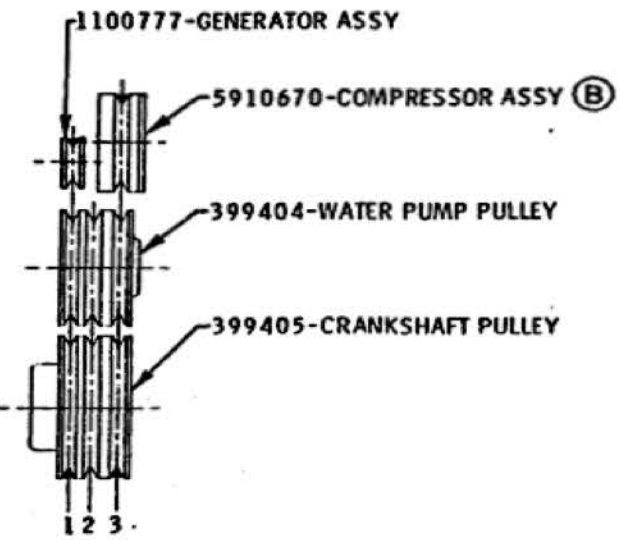


STANDARD

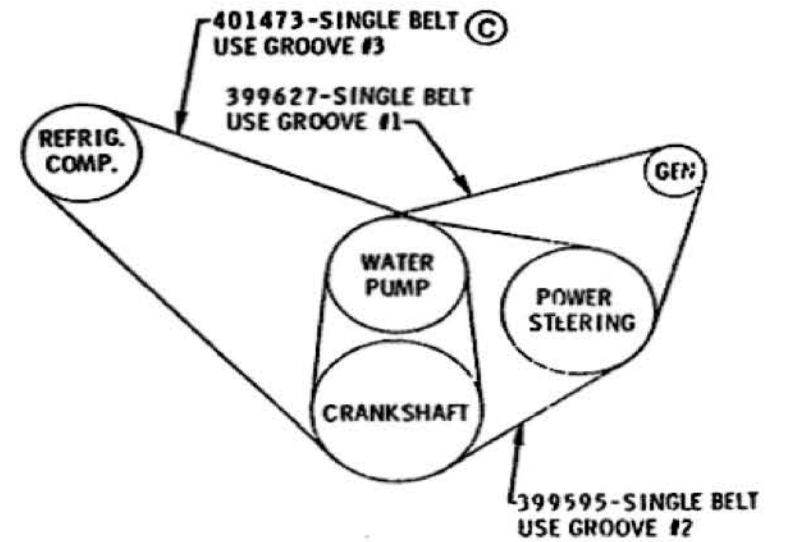
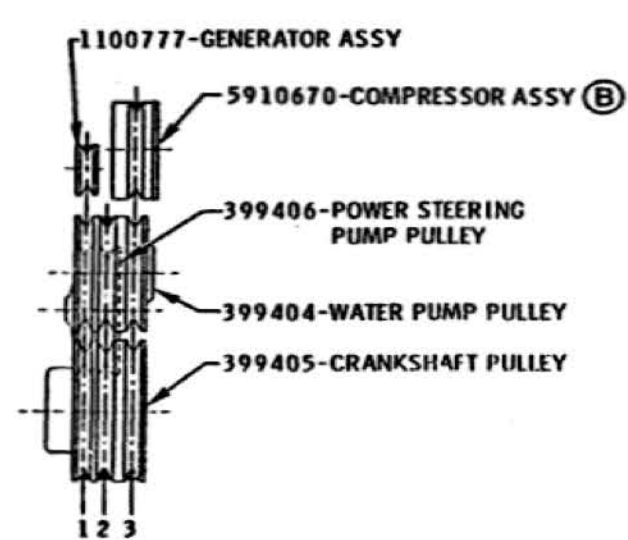


POWER STEERING

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



AIR CONDITIONING



POWER STEERING
WITH
AIR CONDITIONING

ENGINE - 350 CU. IN. V8
COLOR - GOLD

SHEET 1 OF 6

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
																					CHART-PULLEY & BELT DIAGRAM	1968		6-1	111

DATE DEC. 6, 1966
DR. BY B.R. PARKER
CHECKED J.S. [Signature]
APPR. [Signature]

REF.

SERIES
A

PART NO.
400408

**1968 350 & 400 CUBIC INCH ENGINE ASSEMBLY
CONVERSION PROCEDURES**

CONVERT TO 35Y72 BY THE FOLLOWING

ITEM	REMOVE	INSTALL
★ BODY ASSY-WATER PUMP	403034	403035
GASKET-WATER PUMP	385936 (SCRAP)	385936
★ (400 ONLY) OUTLET-WATER GASKET-WATER OUTLET	386129 382544 (SCRAP)	392099 382544

**CONVERT 400 CU. IN. TO 35L77 FROM 35L78 BY THE FOLLOWING.
AVAILABLE ONLY WITH 35B01 OR B07. ASSEMBLED AT LANSING ONLY.**

ITEM	REMOVE	INSTALL
SPARK PLUGS (8)	5610857 (44S)	5611050 (43S)

**CONVERT SYNCHROMESH AND ALL EXPORT ENGINES TO 35C60 BY THE FOLLOWING.
(AUTOMATIC TRANSMISSION ENGINES, EXCEPT EXPORT, CANNOT BE CONVERTED.)**

ITEM	REMOVE	INSTALL
★ BODY ASSY-WATER PUMP	403034	403035
GASKET-WATER PUMP	385936 (SCRAP)	385936
BOLT-FRONT COVER TO BLOCK	271486	394453
★ BRACKET-GENERATOR	397209	--
BOLT-GENERATOR BRACKET (3)	9418822	--
DASHPOT ASSY (4 BBL. A. T.)	--	401159
BRACKET-DASHPOT (4 BBL. A. T.)	--	399625
NUT-DASHPOT TO BRKT. (4 BBL. A. T.)	--	9418892
BOLT-BRKT. TO MANIFOLD (4 BBL. A. T.)	--	9419029
★ TUBE ASSY-OIL FILL	400474 (SCRAP)	400477
ELBOW	103877 (PLUG)	382890
350 ONLY		
SWITCH-THERMOSTATIC VACUUM ELBOW-VACUUM (S.M. ONLY)	103880 (PLUG)	Ⓟ 403398
HOSE-DISTRIBUTOR (2 BBL.)	103877 (PLUG)	393030
HOSE-CARB. TO T.V.S. (2 BBL.)	575712	393588
HOSE-CARB. TO T.V.S. (4 BBL.)	--	400509
HOSE-MANIF. TO T.V.S. (2 OR 4 BBL. SM)	--	393586
HOSE-MANIF. TO T.V.S. (2 BBL. A.T.)	--	400508
TEE-VACUUM (A. T.)	--	392613
CONNECTOR-HOSE (2 REQD. A. T.)	--	574372
		575714
NIPPLE-HEATER HOSE	399467	
400 ONLY		
OUTLET-WATER	386129	392099
GASKET-WATER OUTLET	382544 (SCRAP)	382544
VALVE-PRESSURE REDUCER	1485744	--
CLIP-VALVE COVER	388218	--

CONVERT L65 ENGINE 400289 (QL) FROM C60 TO STD BY THE FOLLOWING

ITEM	REMOVE	INSTALL
★ BODY ASSY-WATER PUMP	403035	403034
GASKET-WATER PUMP	385936 (SCRAP)	385936
BOLT-FRONT COVER TO BLOCK	394453	271486
★ BRACKET-GENERATOR	--	397209
BOLT-GENERATOR BRACKET (3)	--	9418822
DASHPOT ASSY	401159	--
BRACKET-DASHPOT	399625	--
NUT-DASHPOT TO BRKT.	9418892	--
BOLT-BRKT. TO MANIFOLD	9419029	--
★ OUTLET-WATER	392099	386129
GASKET-WATER OUTLET	382544 (SCRAP)	382544
VALVE-PRESSURE REDUCER	--	1485744
SWITCH-THERMOSTATIC VACUUM	403398 Ⓟ	103880 (PLUG)
TEE-VACUUM	574372	--
CONNECTOR-HOSE (2)	575714	--
HOSE-CARB. TO T.V.S.	400509	--
HOSE-T.V.S. TO DIST.	393588	--
HOSE-TEE TO T.V.S.	392613	--
HOSE-CARB. TO DIST.	--	575712
ELBOW	382890	103877 (PLUG)

CONVERT 400 CU. IN. ENGINES (EXC. L65) TO K66 BY THE FOLLOWING

ITEM	REMOVE	INSTALL
SPARK PLUGS (8) L78	5610857	5611420 (44S)
L77	5610857	5611425 (43S)
DISTRIBUTOR ASSY L77, L78 WITH SM EXC. W30	1111287	1111290
L77, L78 WITH M40 AND ALL W30	1111468	1111470
DISTRIBUTOR ASSY "O" RING SEAL ★ ★		383524

CONVERT TO U21 BY THE FOLLOWING

ITEM	REMOVE	INSTALL
GAGE-ENGINE OIL	3815936	6460992
ELBOW-GAGE TO BLOCK	--	401559

CONVERT TO J50, J52 OR J55 BY THE FOLLOWING

ITEM	REMOVE	INSTALL
PLUG-POWER BRAKE VACUUM HOLE	103878	143343

CONVERT 400 CU. IN. 4BBL. TO V01 BY THE FOLLOWING

ITEM	REMOVE	INSTALL
★ BODY ASM. - WATER PUMP	403034	403035
GASKET - WATER PUMP	385936 (SCRAP)	385936

CONVERT TO L77 OR L78 WITH M40 ON 4800 SERIES BY THE FOLLOWING:
RESET DISTRIBUTOR TIMING FROM 7 1/2° AT 850 R. P. M. TO 10° AT 850 R. P. M. RE-CHISEL MARKING NOT REQ'D.

TRANSFER ENGINE NUMBER FROM OIL FILL TUBE 400474 BY STAMPING TUBE 400477 BEFORE INSTALLING IT IN THE ENGINE. INSTALL NEW ENGINE CODE TAPE.

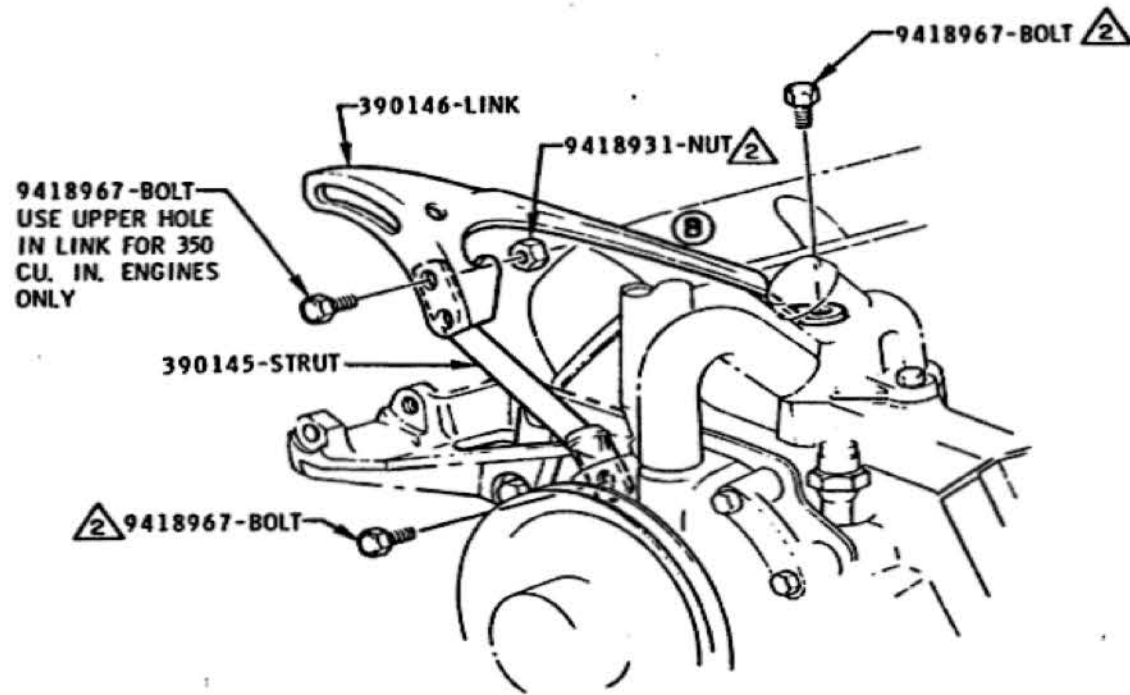
K66 CONVERSION DISTRIBUTORS TO BE TIMED AND CHISEL MARKED PER ENGINE ADJUSTMENT CHART

★ THESE PARTS TO BE PAINTED WITH ENGINE ENAMEL

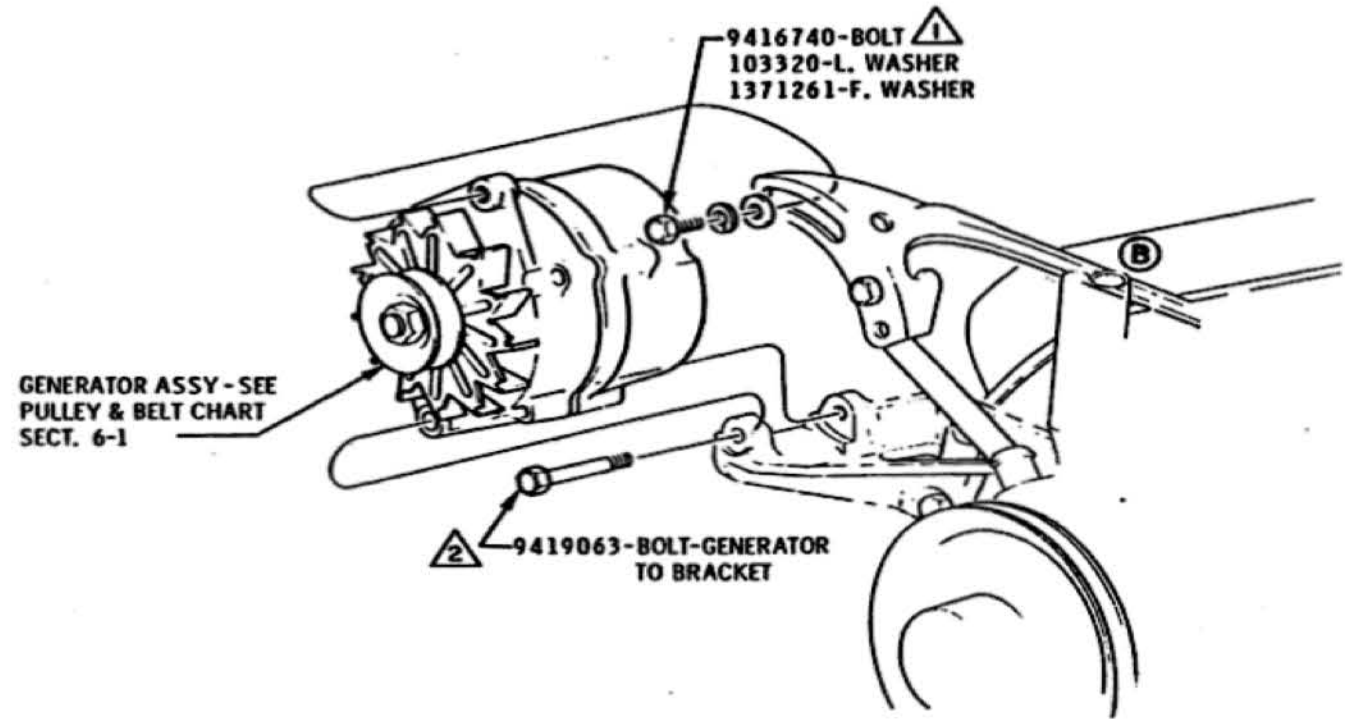
★★ REMOVE "O" RING FROM REPLACED DISTRIBUTOR AND INSTALL ON NEW DISTRIBUTOR.

FOR ENGINE CONVERSION INSTALLATION DRAWINGS SEE SECTION 6-0, & 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
3-29-68	R	CHART ADDED	CG	J	12-26-68	K	REVISED	KL	J	12-4-67	E	CHART ADDED	GB	J		CHART - ENGINE CONVERSION	1968		6-1	120
3-15-68	B	WAS 3019342	DM	J	11-5-68	J	WAS 399630	JJ	J	12-4-67	D	LINE REMOVED	GB	J		DATE MARCH 28, 1967				
2-23-68	N	NOTE REVISED	KL	J	11-5-68	H	WAS 398701	JJ	J	12-4-67	C	REVISED	GB	J		DR. BY RODNEY DAVIS				
2-6-68	M	CONVERSION ADDED	BS	J	12-27-67	G	HEADING REVISED	CG	J	8-10-67	B	REVISED	GB	J		CHECKED J. FINES				
12-6-68	L	NOTE ADDED	A	J	12-27-67	F	LINE REMOVED	CG	J	8-10-67	A	NOTE ADDED	GB	J		APPR.				
																SERIES A				PART NO. 401099



INSTALLATION OF GENERATOR SUPPORTING PARTS

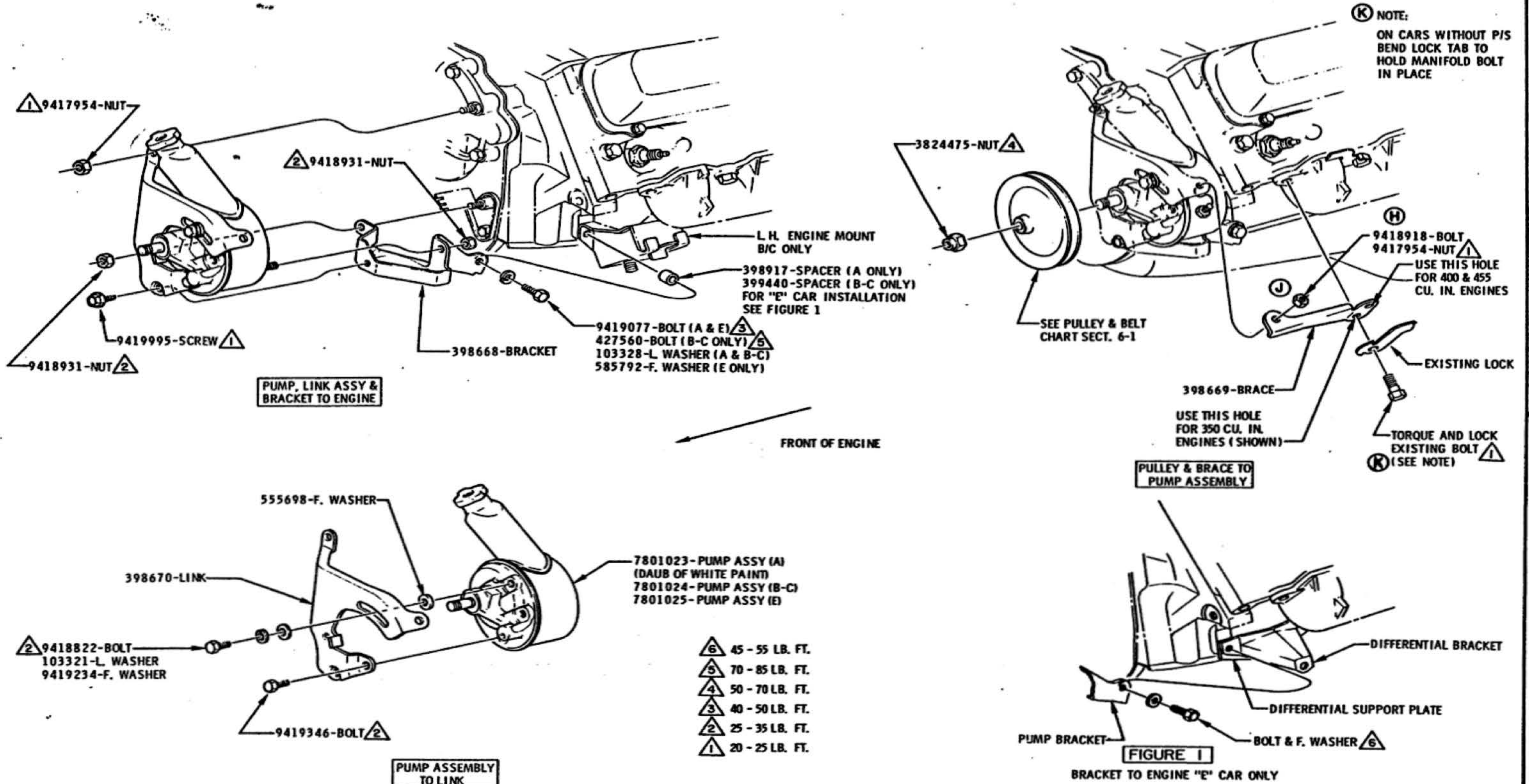


GENERATOR TO BRACKETS

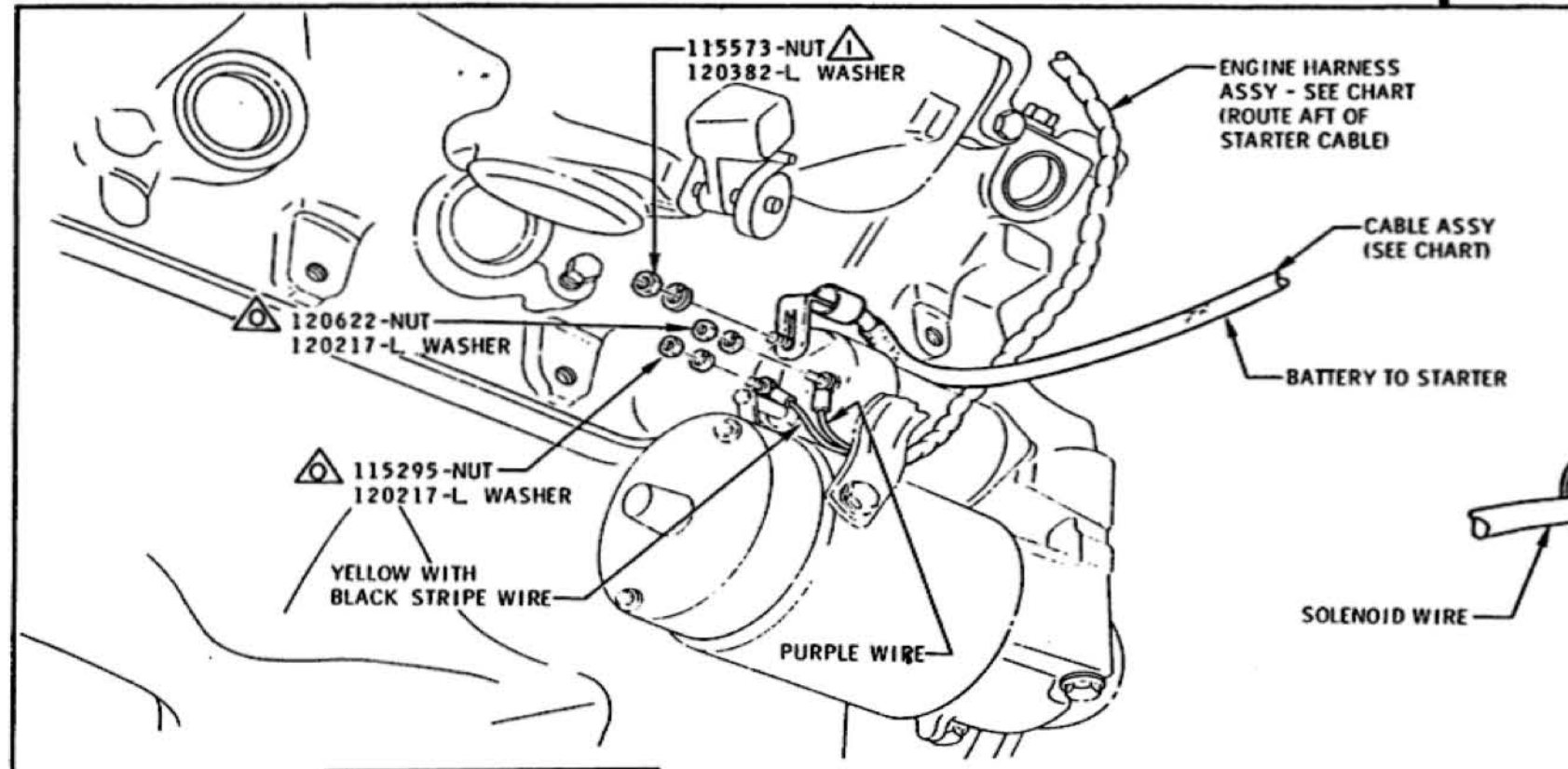
① 20 - 25 LB. FT.
② 25 - 35 LB. FT.

(EXC. 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	
																GENERATOR MOUNTING	1968		6-1	125	
					11-16-67	B2	BACKGROUND REVISED														
					6-28-67	A	TORQUE SPECS. ADDED														
																	REF.	6Y1	SERIES	A B C E	398162-3-4

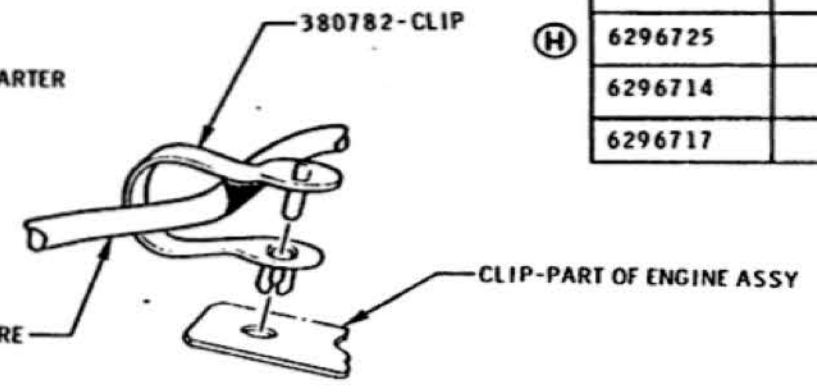


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					1-19-68	K2	NOTE ADDED	OM	MS	5-19-67	E	COLOR CODE ADDED				POWER STEERING PUMP AND BRACKETS	1968		6-1	126
					11-27-67	J	FASTENING REVERSED	OM	MS	5-1-67	D	WAS 9419995-SCREW				DATE NOVEMBER 11, 1966				
					11-14-67	H	USE 9417950-BOLT	OM	MS	5-1-67	C2	NOTE ADDED				DR. BY CURT MAY				
					8-10-67	G	WAS TORQUE	OM	MS	5-1-67	B2	NOTES REVISED				CHECKED <i>[Signature]</i>				
					7-10-67	F	TORQUE SPECS. ADDED	OM	MS	2-2-67	A2	PART NOS REV				APPR. <i>[Signature]</i>	REF. A & B (35N40) C & E (9E)	SERIES ABCE	398162-3-4	

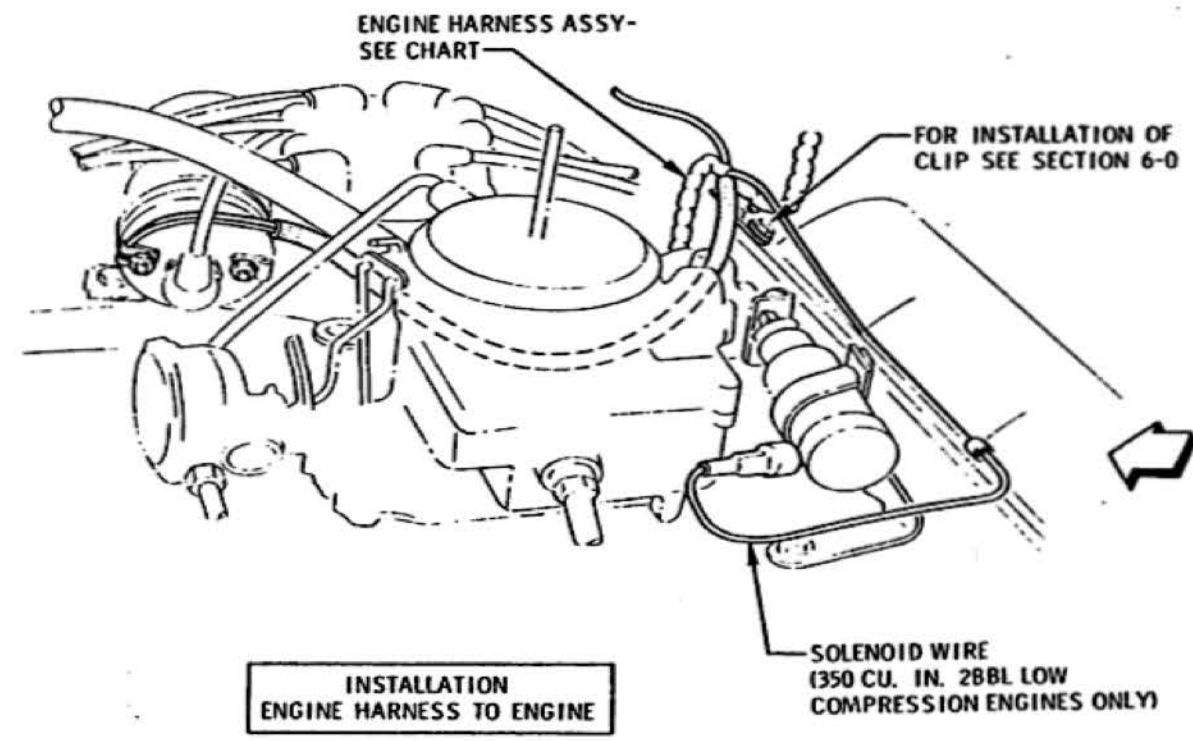


STARTER CABLE & HARNESS TO STARTER

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

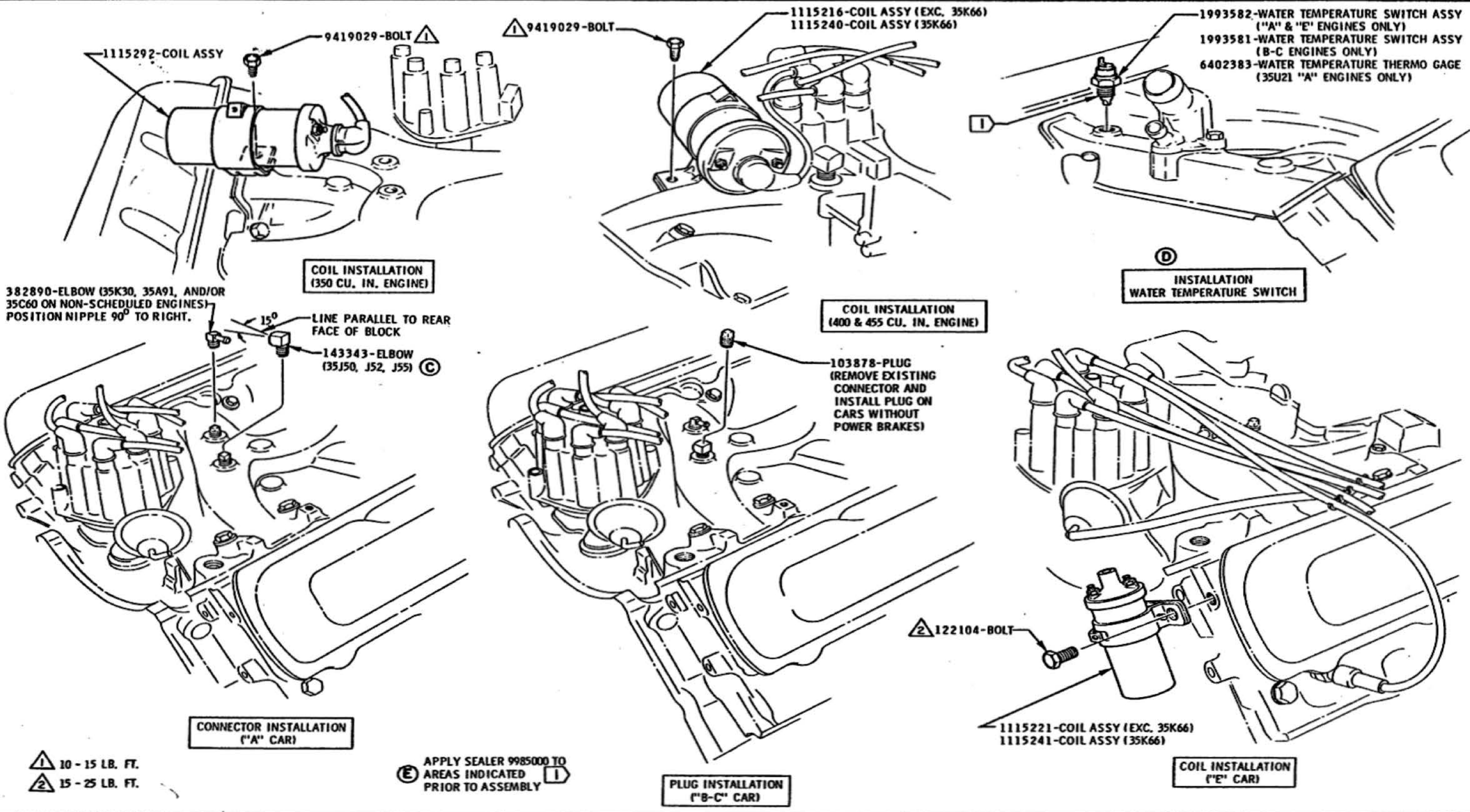


INSTALLATION ENGINE HARNESS TO ENGINE

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
① 96 - 144 LB. IN.

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
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			DR BY CURT MAY															
10-19-67	H	PART NO REV			8-9-67	C	USAGE REVISED & CHART ADDED			CHECKED MP2															
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		



1 10 - 15 LB. FT.
2 15 - 25 LB. FT.

(E) APPLY SEALER 9985000 TO AREAS INDICATED 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
					10-19-67	E	NOTE ADDED									COIL ASSY AND MANIFOLD CONNECTORS & PLUGS	1968		6-1	128
					8-10-67	D	VIEW ADDED									DATE APRIL 4, 1967				
					7-20-67	C	35J55 ADDED									DR. BY CUET MAY				
					4-26-67	B2	WAS 9419026									CHECKED BY J. Barnhart				
					4-18-67	A	WAS 500326 - CORR.									APPR. J. L. Ford				
																REF.		SERIES	PART NO.	
																		ABCE	398162-3-4	

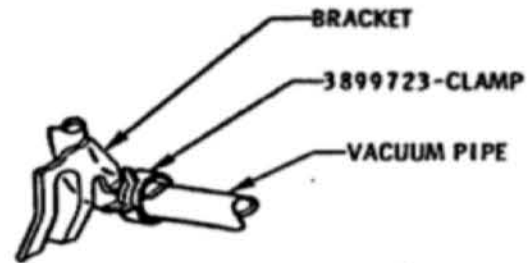


FIGURE 1

VACUUM PIPE TO
SPARK PLUG CABLE BRACKET

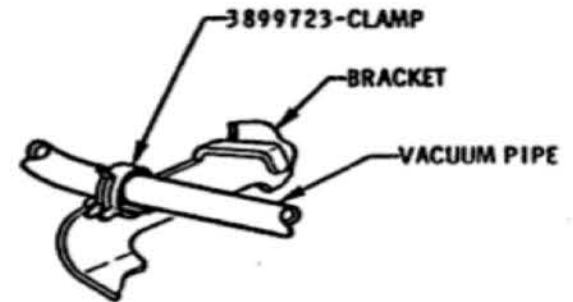
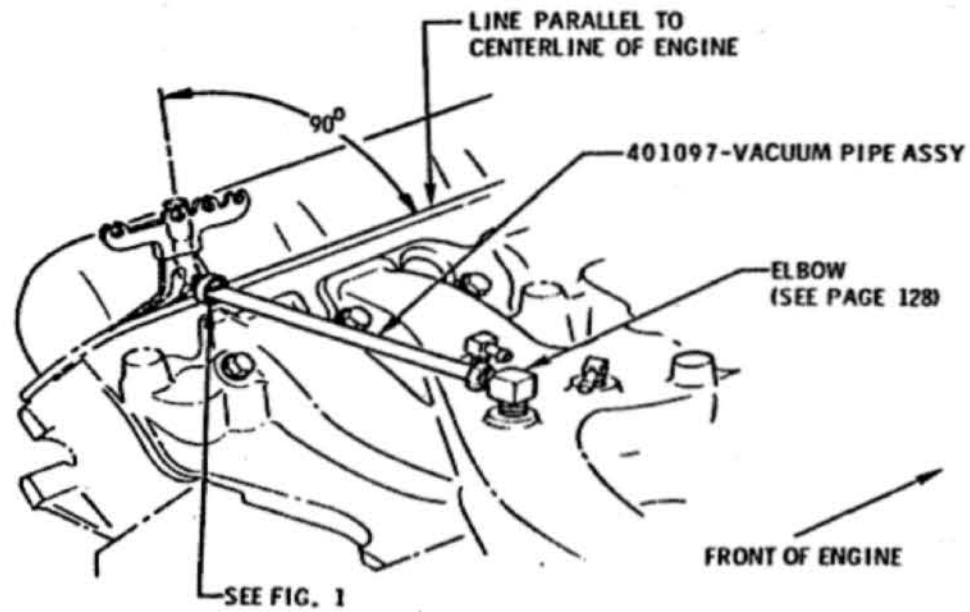
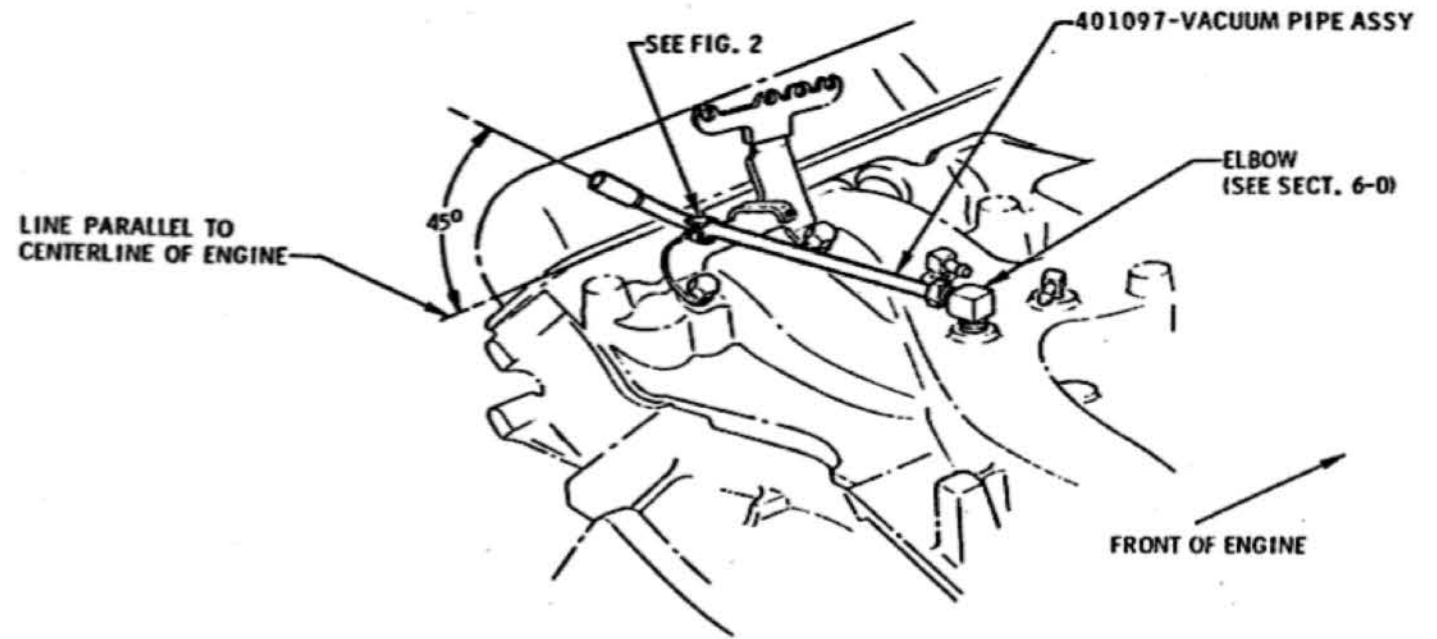


FIGURE 2

VACUUM PIPE TO
SPARK PLUG CABLE BRACKET

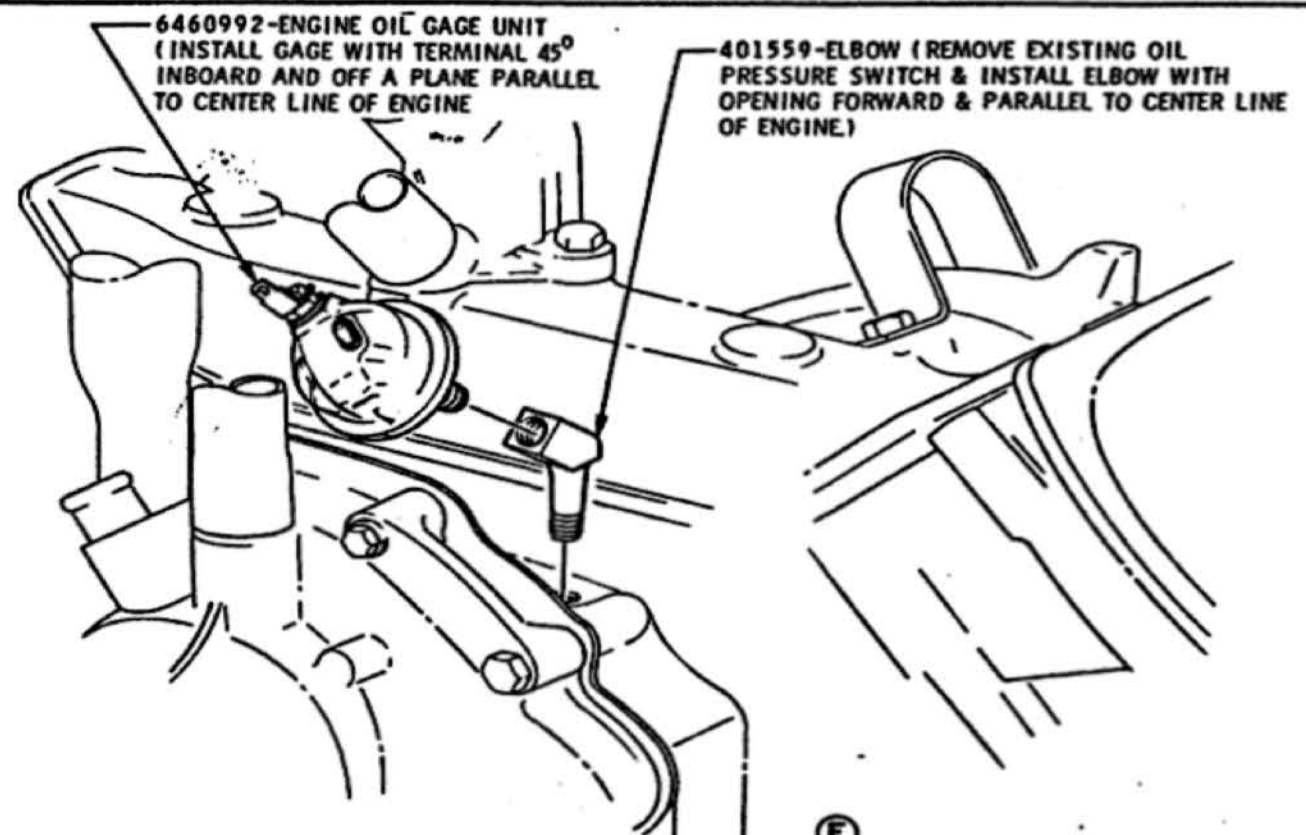


A ENGINE

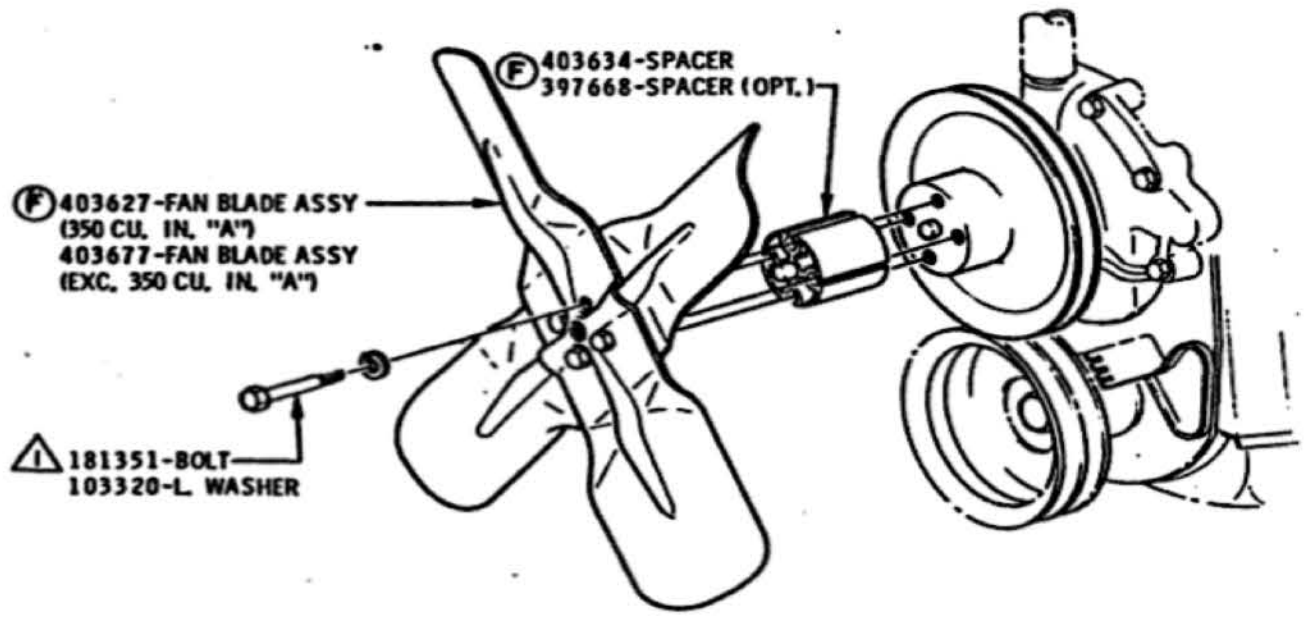


B-C ENGINE

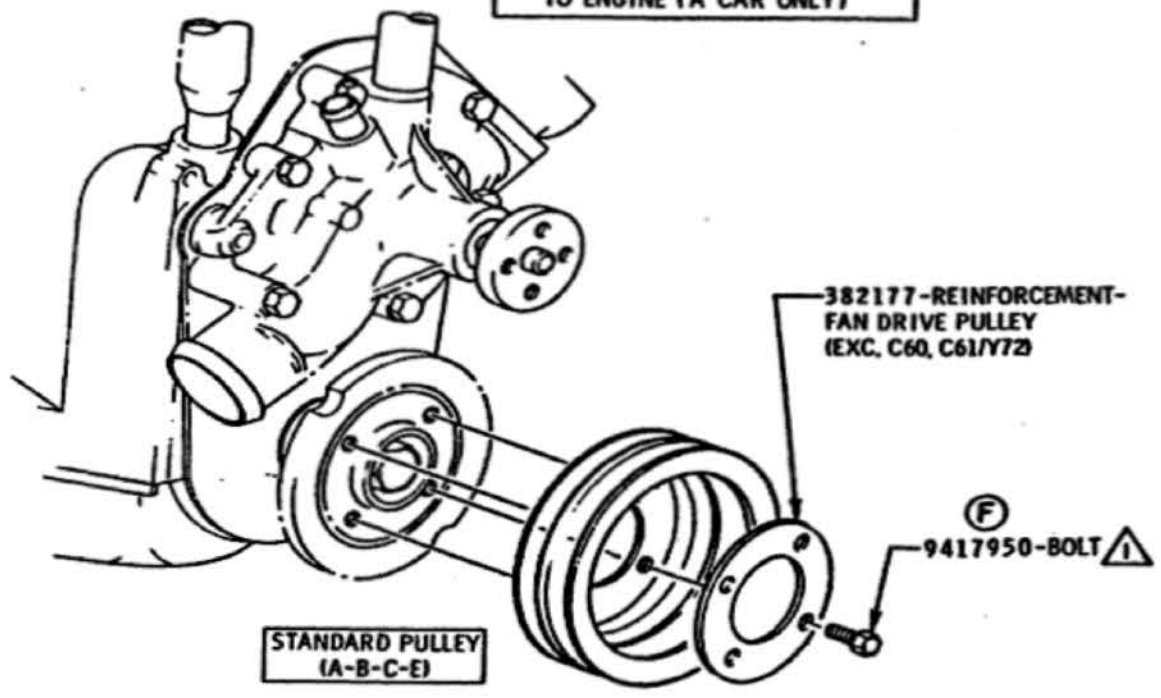
										TITLE POWER BRAKE VACUUM PIPE									
										DATE <i>APRIL 21, 1967</i>		FIRST USED 1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION 6-1		PAGE 129	
										DR. BY <i>CUET MAY</i>		REF.		SERIES A-B-C		PART NO. 398162-3			
										CHECKED <i>MYBambart</i>		APPR.							
										APPR.									
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.



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

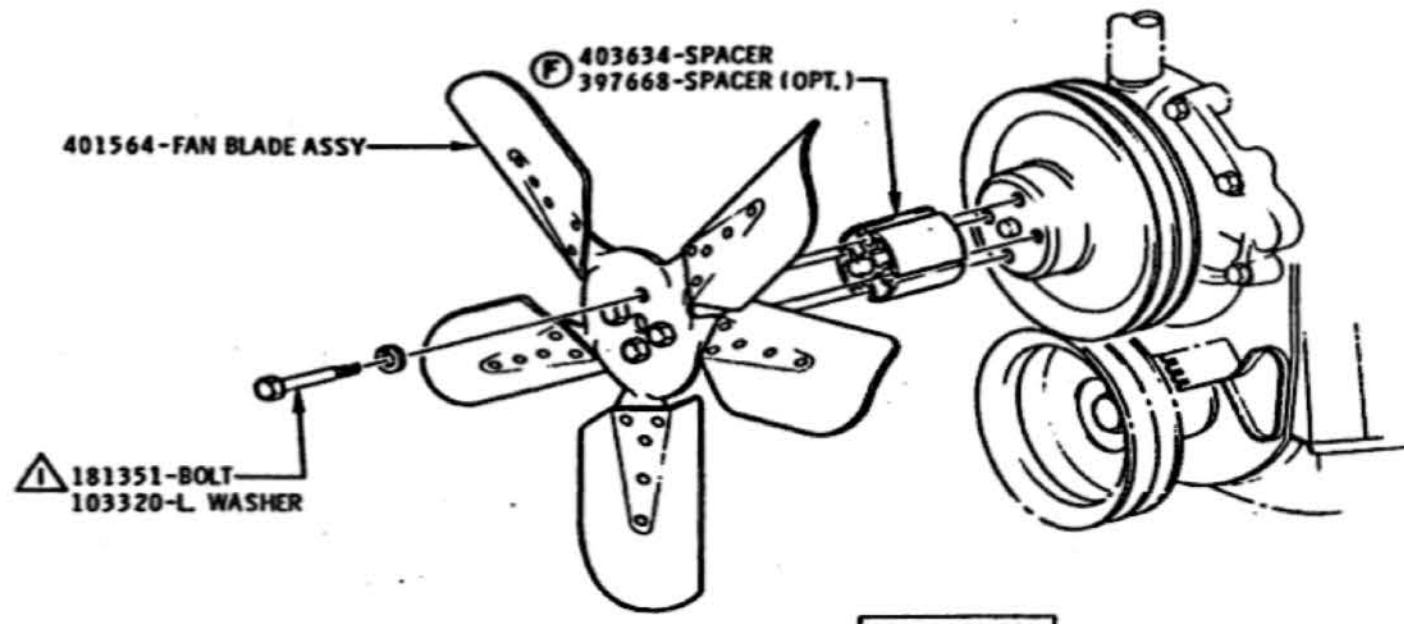


STANDARD FAN (A-B-C)



D
15 - 20 LB. FT.

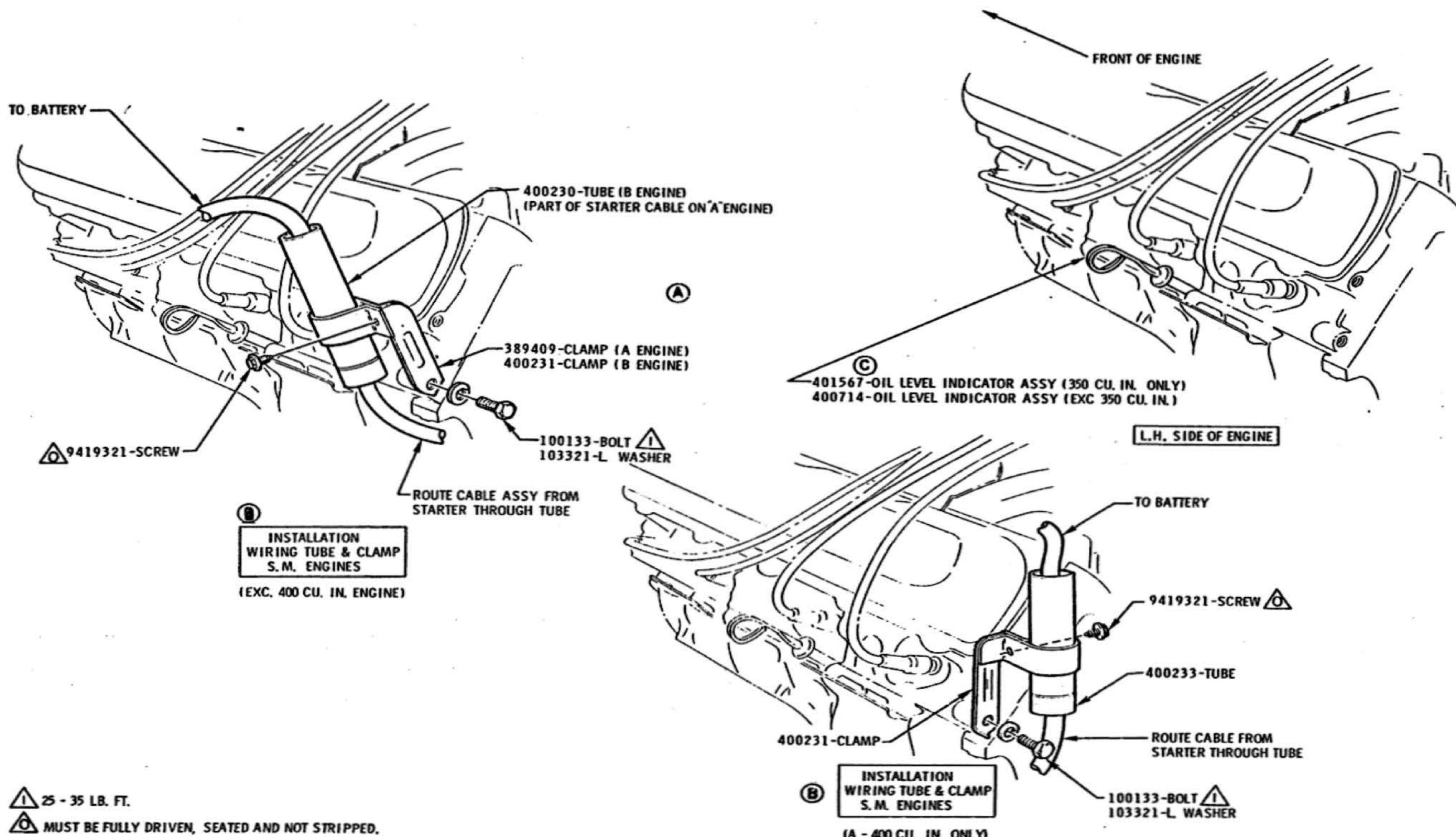
STANDARD PULLEY (A-B-C-E)



STANDARD FAN (E)

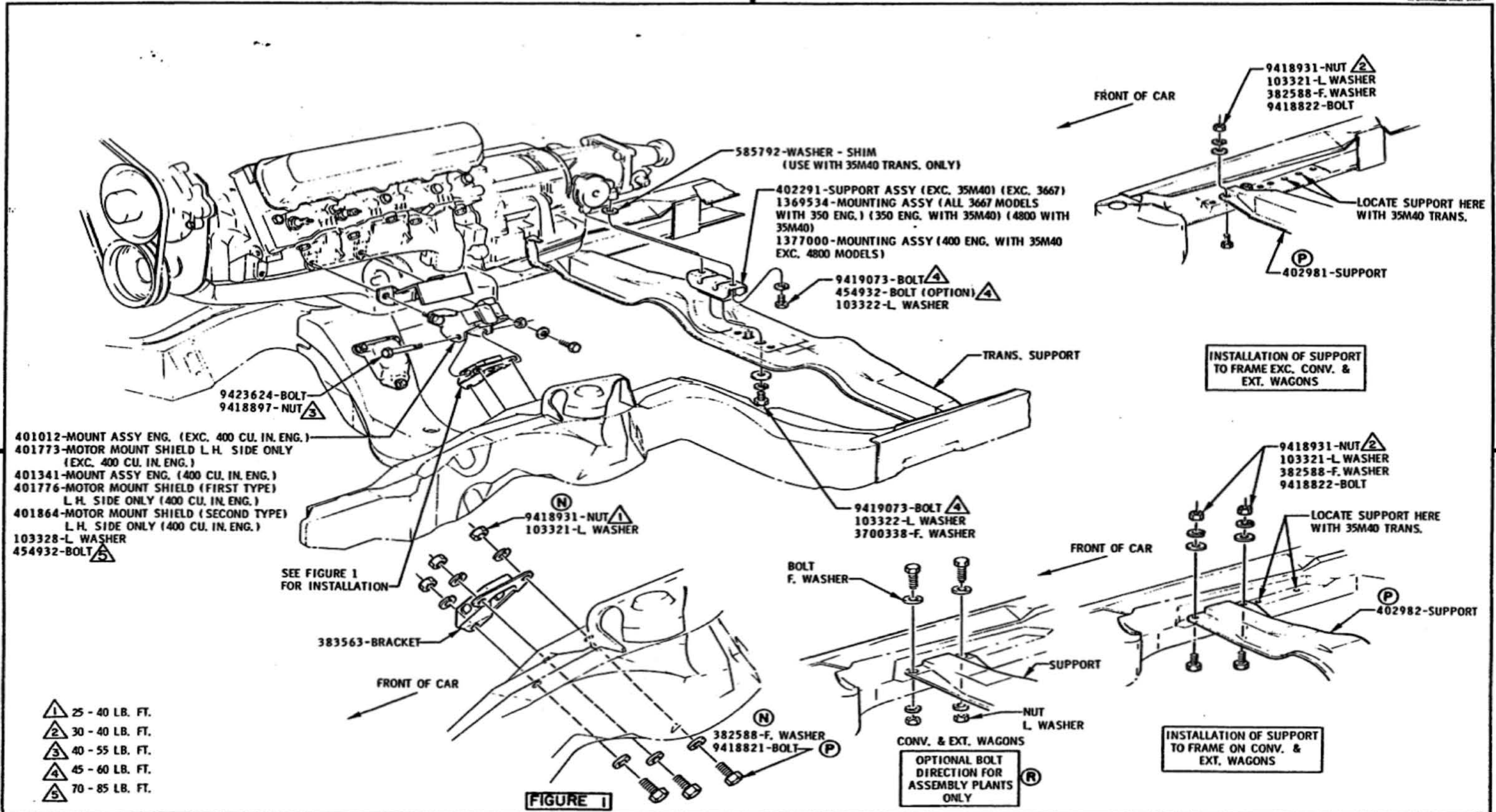
FOR PULLEYS & BELTS
SEE CHART IN FRONT
OF SECTION 6-1

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
					7-21-67	E	VIEW ADDED									PULLEY, STANDARD FANS & 35U21 OIL GAGE	1968	SERIES ABCE	6-1	130
				6-27-67	D	TORQUE ADDED									DATE NOVEMBER 11, 1966					
				6-27-67	G	PART NUMBERS REVISED									DR. BY CURT MAY					
				4-26-67	B	35C40 CANCELLED									CHECKED BY <i>[Signature]</i>					
				4-26-67	A	REINF. ADDED									APPR. <i>[Signature]</i>					
		4-28-68	F			PART NO'S REVISED										REF. 6K1				

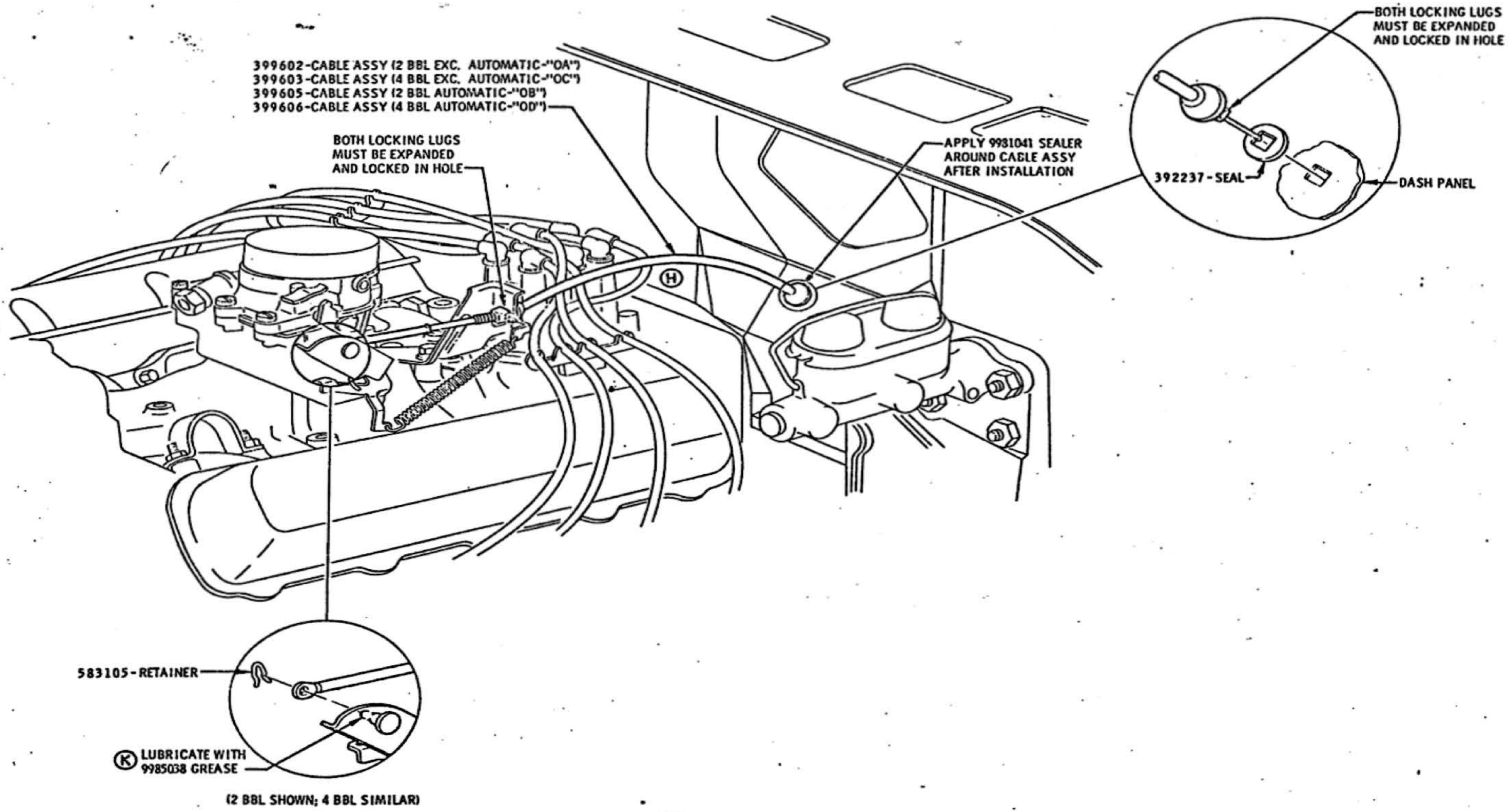


⚠ 25 - 35 LB. FT.
ⓐ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

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
					7-13-67	C	PART NO. ADDED									OIL LEVEL INDICATOR & S.M. STARTER CABLE TUBES	1968		6-1	132
					7-13-67	B	VIEWS ADDED									CURT MAY				
					4-13-67	A	PART NO'S REV.									APPROVED	REF. 664 35K30 35L65	SERIES ABCE	PART NO. 398162-3-4	
																	35J52 35L77			

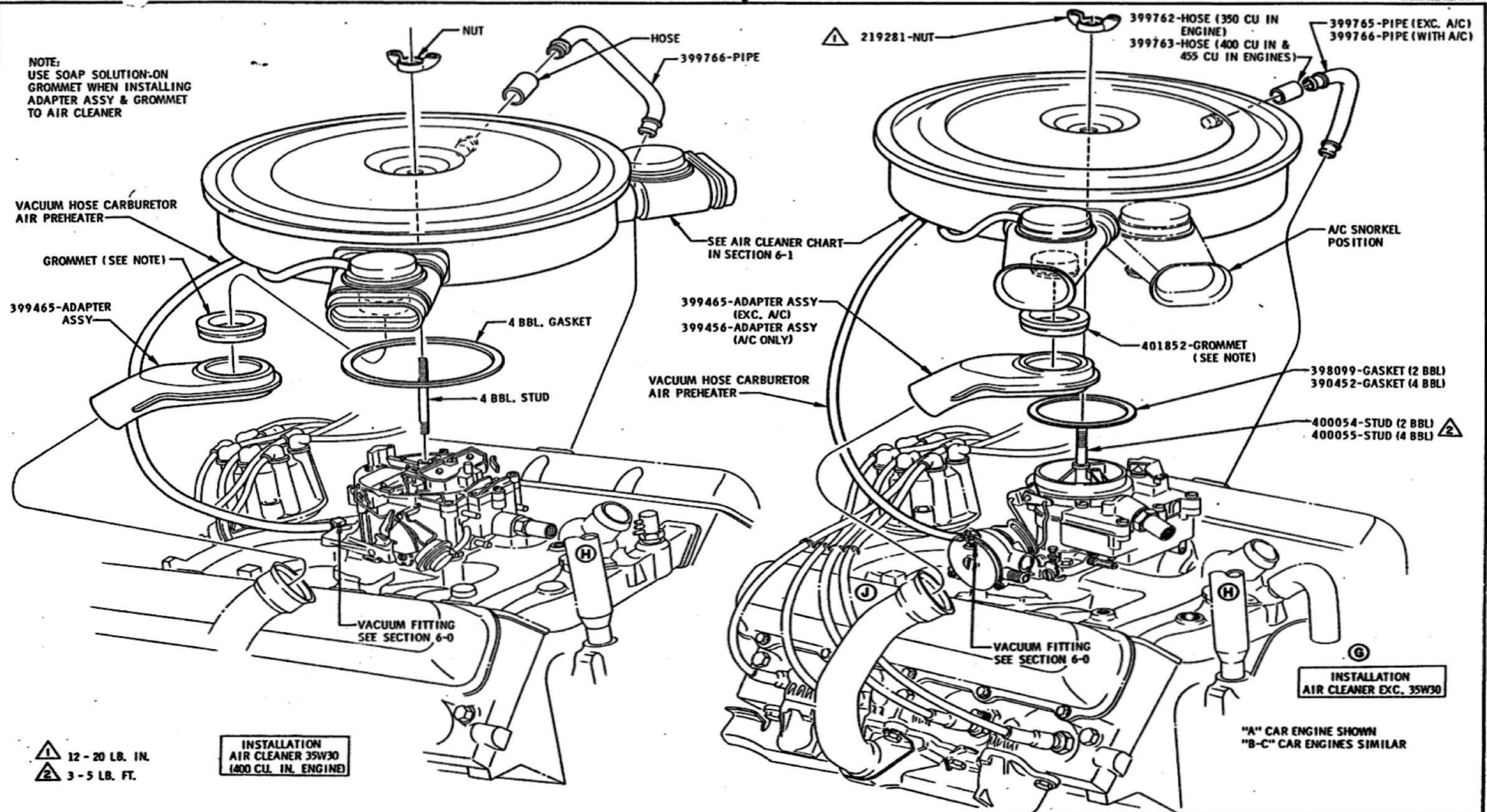


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					1-25-68	R	OPTIONAL DIRECTION ADDED	R							POWER PLANT TO FRAME	1968		6-1	140
					1-25-68	P	PART NO'S. REVISED	CM							DATE FEBRUARY 16, 1967				
					1-25-68	N	PART NO'S. REVERSED	CM							DR. BY CUET MAY				
					12-12-67	M	PART NO. ADDED	CM							CHECKED <i>MJZ</i>				
															APPR. <i>[Signature]</i>	REL.	2B, 6Q, F35, K51	SERIES	PART NO.
																		A	398162



ⓐ FOR THROTTLE ADJUSTMENTS
SEE CHART ON PAGE 119

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	K				WAS 9985002			4-25-67	E	WAS 399623				V-8 THROTTLE CONTROL	1968		G-1	145
		8-2-67	J				NOTE ADDED			4-21-67	D	NOTE REMOVED				DATE DECEMBER 27, 1966				
		8-2-67	H				CABLE ROUTING REV			4-21-67	C ₂	REVISED TO DETAIL				DR. BY W.E. MASON				
		7-20-67	G				CODES ADDED			2-14-67	B	WAS PAGE 135				CHECKED BY <i>[Signature]</i>				
		8-12-67	F ₂				VIEWS REMOVED			2-17-67	A	BACKGROUND REVISED				APPR. F. ADENWIKER	REF. 612 707025			
																SERIES A				
																PART NO. 398162				



NOTE:
USE SOAP SOLUTION-ON
GROMMET WHEN INSTALLING
ADAPTER ASSY & GROMMET
TO AIR CLEANER

VACUUM HOSE CARBURETOR
AIR PREHEATER

GROMMET (SEE NOTE)

399465-ADAPTER
ASSY

VACUUM FITTING
SEE SECTION 6-0

SEE AIR CLEANER CHART
IN SECTION 6-1

399465-ADAPTER ASSY
(EXC. A/C)
399456-ADAPTER ASSY
(A/C ONLY)

VACUUM HOSE CARBURETOR
AIR PREHEATER

VACUUM FITTING
SEE SECTION 6-0

INSTALLATION
AIR CLEANER EXC. 35W30

"A" CAR ENGINE SHOWN
"B-C" CAR ENGINES SIMILAR

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

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

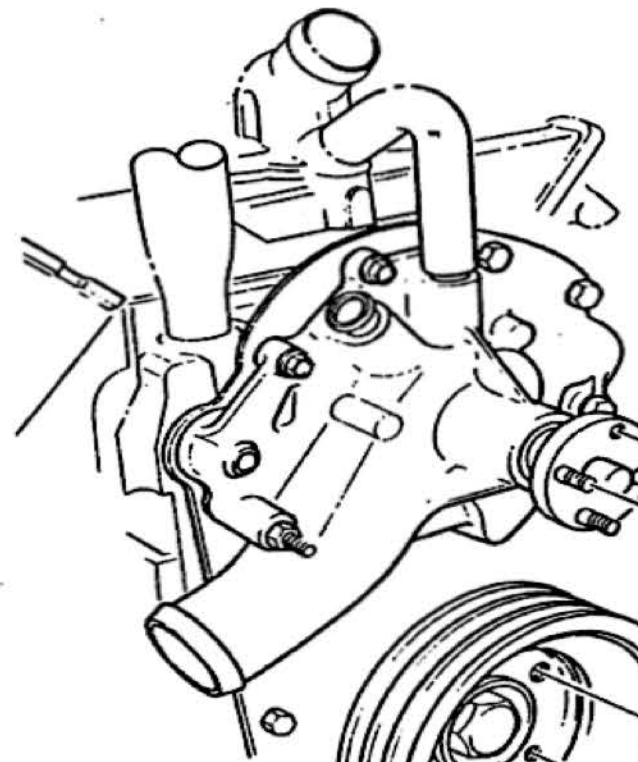
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-31-67	E	NOTE ADDED	OM	MS							AIR CLEANER, ADAPTERS & GROMMET				
		1-8-68	J		7-6-67	D	WAS 9418699 - NUT	OM	MS							DATE FEBRUARY 27, 1967	1968		6-1	150
		11-16-67	H ₂		4-12-67	C ₂	VACUUM HOSE ADDED	OM	MS							DR. BY CUET 1967				
		9-11-67	G		3-29-67	B	PART NOS ADDED	OM	MS							CHECKED <i>[Signature]</i>				
		8-23-67	F		3-29-67	A	VIEW ADDED	OM	MS							APPR. <i>[Signature]</i>				
																REF. <i>EM9, 1M9</i>				
																SERIES A-B-C				PART NO. 398162-3

399679-WATER CONTROL VALVE ASSEMBLY
(EXCEPT 35C61)
399715-WATER CONTROL VALVE ASSEMBLY
(35C61)

LINE PARALLEL TO
CENTERLINE OF ENGINE

FRONT OF ENGINE

INSTALLATION
A/C WATER VALVE



PULLEY
SEE PULLEY & BELT
CHART IN SECT. 6-1

PULLEY
SEE PULLEY & BELT
CHART IN SECT. 6-1

⚠ BOLT (2) SAME AS
STANDARD CAR

401298-COVER
401299-SPACER
9419043-BOLT ⚠
(A/C AND/OR 35Y72)

⚠ 15 - 20 LB. FT.

9419031-BOLT ⚠
103320-L. WASHER

401372-FAN BLADE ASSY

CLUTCH, FAN, AND PULLEY
INSTALLATION TO WATER PUMP

35C60, 35C61, 400 CU. IN. 35V01, 35W30, 35W31, 35Y72

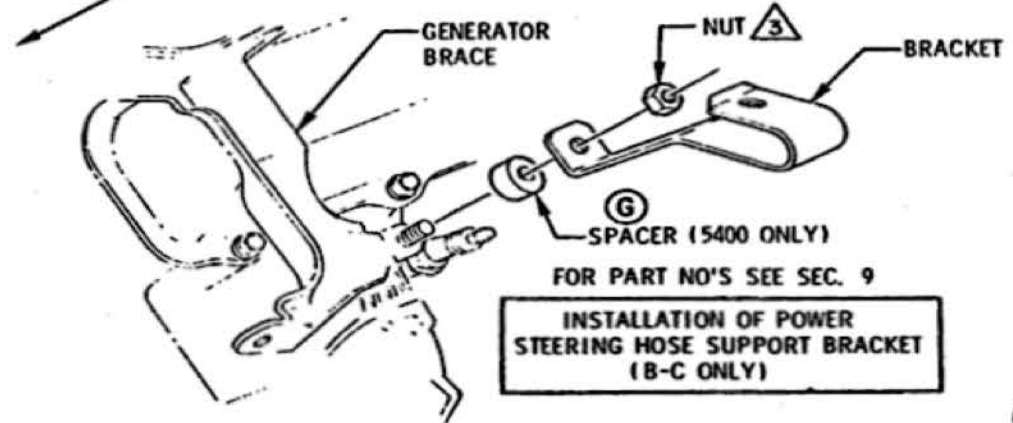
Ⓝ 400273-CLUTCH ASSY (CODE "OX")
5360808-CLUTCH ASSY (CODE "OX") (OPT.)
("A" CAR 35C60, 35W31)
401797-CLUTCH ASSY (CODE "OS")
Ⓚ 4939873-CLUTCH ASSY (CODE "OS") (OPT.)
("A" CAR 400 CU. IN. 35V01, 35W30, 35Y72)
("BC" CAR 35C60, 35C61, 35Y72)

Ⓜ 9417954-NUT ⚠
Ⓜ 402720-STUD ⚠

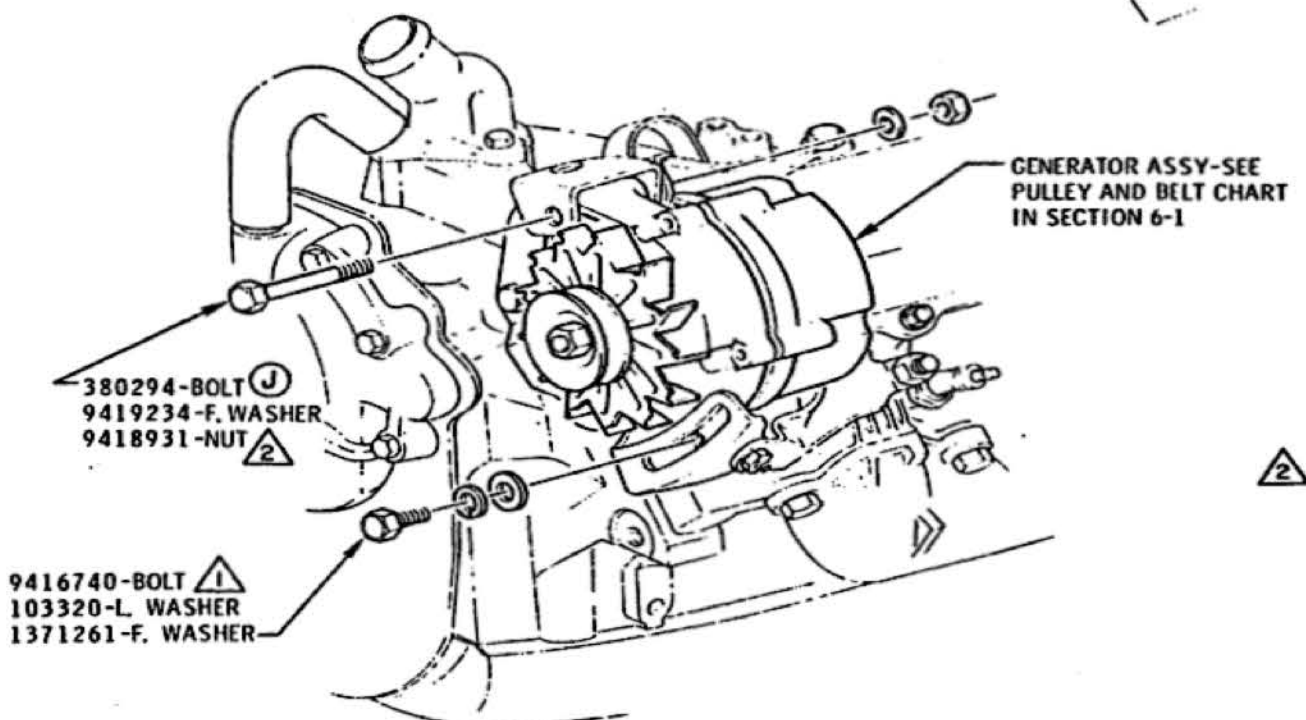
APPLY SEALER 9985000 TO
AREAS INDICATED Ⓜ
PRIOR TO ASSY

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
		4-24-68			K	PART NO. ADDED	OMM	8-28-67	E	PART NO'S REV	OMM		AIR CONDITIONING & HEAVY DUTY FAN, PULLEY, CLUTCH & WATER VALVE				
		1-25-68			J	NOTE REVISED	R.M.	7-19-67	U	REVISED & REDRAWN	R.M.		DATE FEBRUARY 20, 1968	1968		6-1	210
		12-12-67			H	WAS 352919-STUD	OMM	5-10-67	C	NOTE REVISED	OMM		DR. BY CURT MAY				
		12-12-67			G	PART NO. REMOVED	OMM	5-10-67	B	35Y72 INFO ADDED	J13		CHECKER M. Barnhart				
		10-3-67			F	NOTE ADDED	OMM	4-14-67	A	WAS STUD & NUT	OMM		APPR. B. A. French	REF. 35L67-15-01 (1420) 35Y72	SERIES AB-C	PART NO. 398162-3	

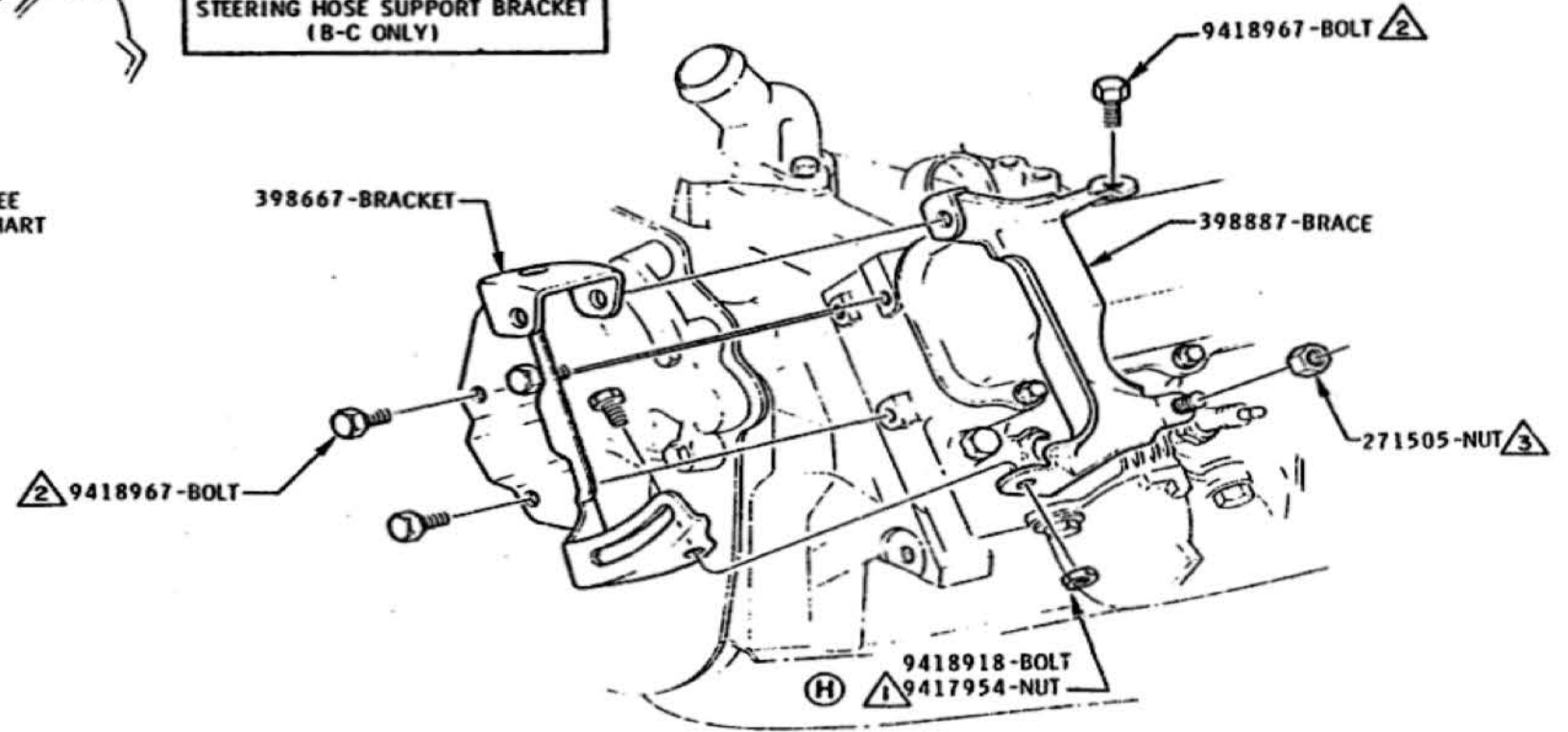
FRONT OF ENGINE



INSTALLATION OF POWER STEERING HOSE SUPPORT BRACKET (B-C ONLY)



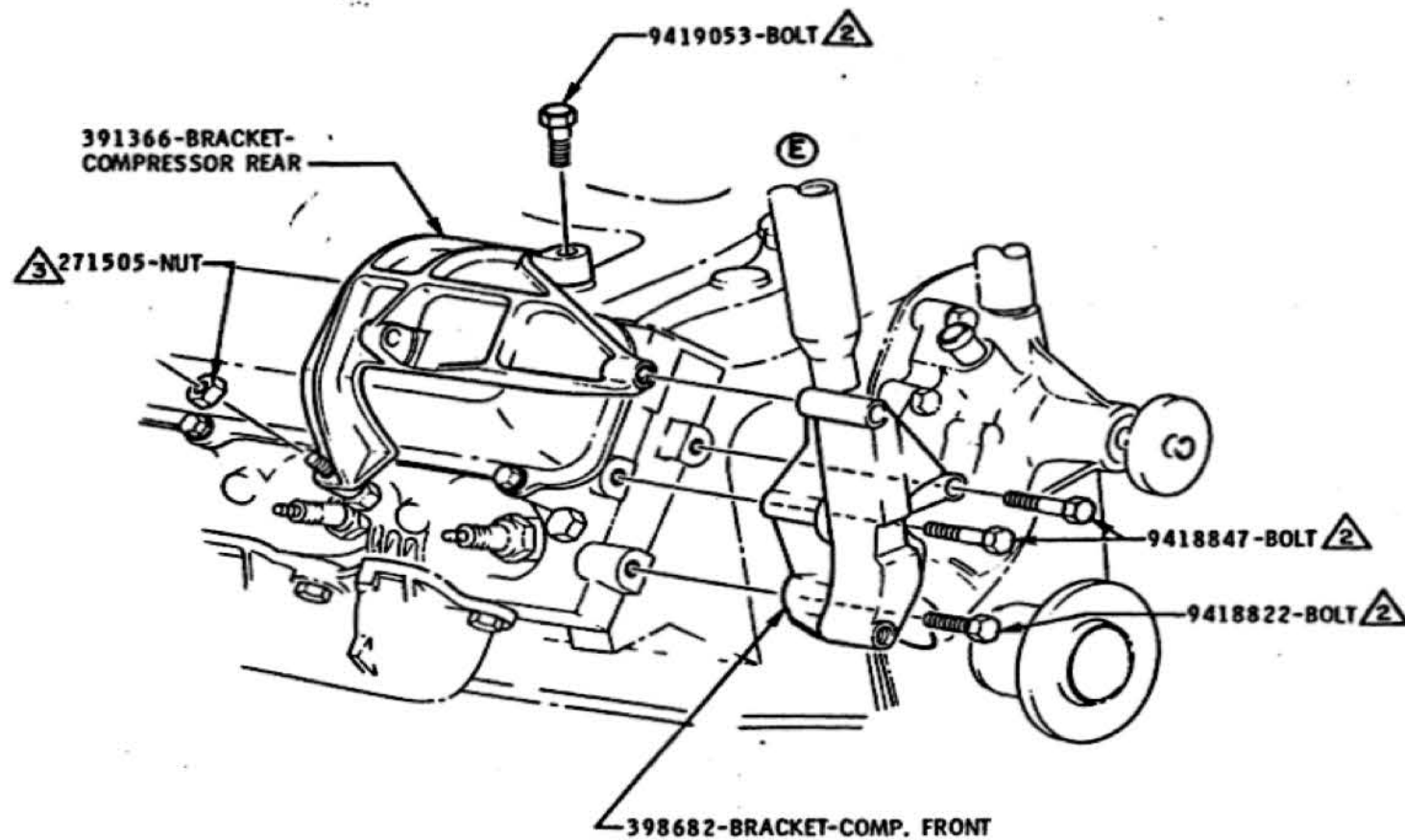
INSTALLATION OF GENERATOR TO SUPPORTING BRACKETS



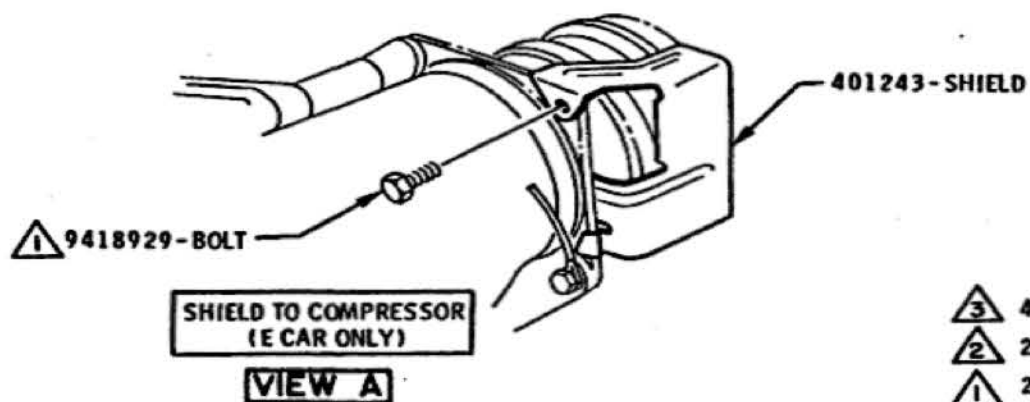
INSTALLATION OF GENERATOR BRACKET AND BRACE

- 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 391506-BOLT			6-12-67	D	TORQUE ADDED				DATE NOVEMBER 17, 1966	1968		6-1	212
					11-14-67	H	WAS 9417950-BOLT			6-12-67	C	NOTE ADDED				DR. BY CUET MAY				
					10-19-67	G	WAS 2 SPACERS			4-21-67	B	BRACKET ADDED				CHECKED [Signature]				
					10-10-67	F	VIEW ADDED			4-21-67	A	FASTENING REVISED				APPR. [Signature]				
																REF. 35C60 (6Y1) 35C61 (6Y1)	SERIES ABCE	398162-3-4		



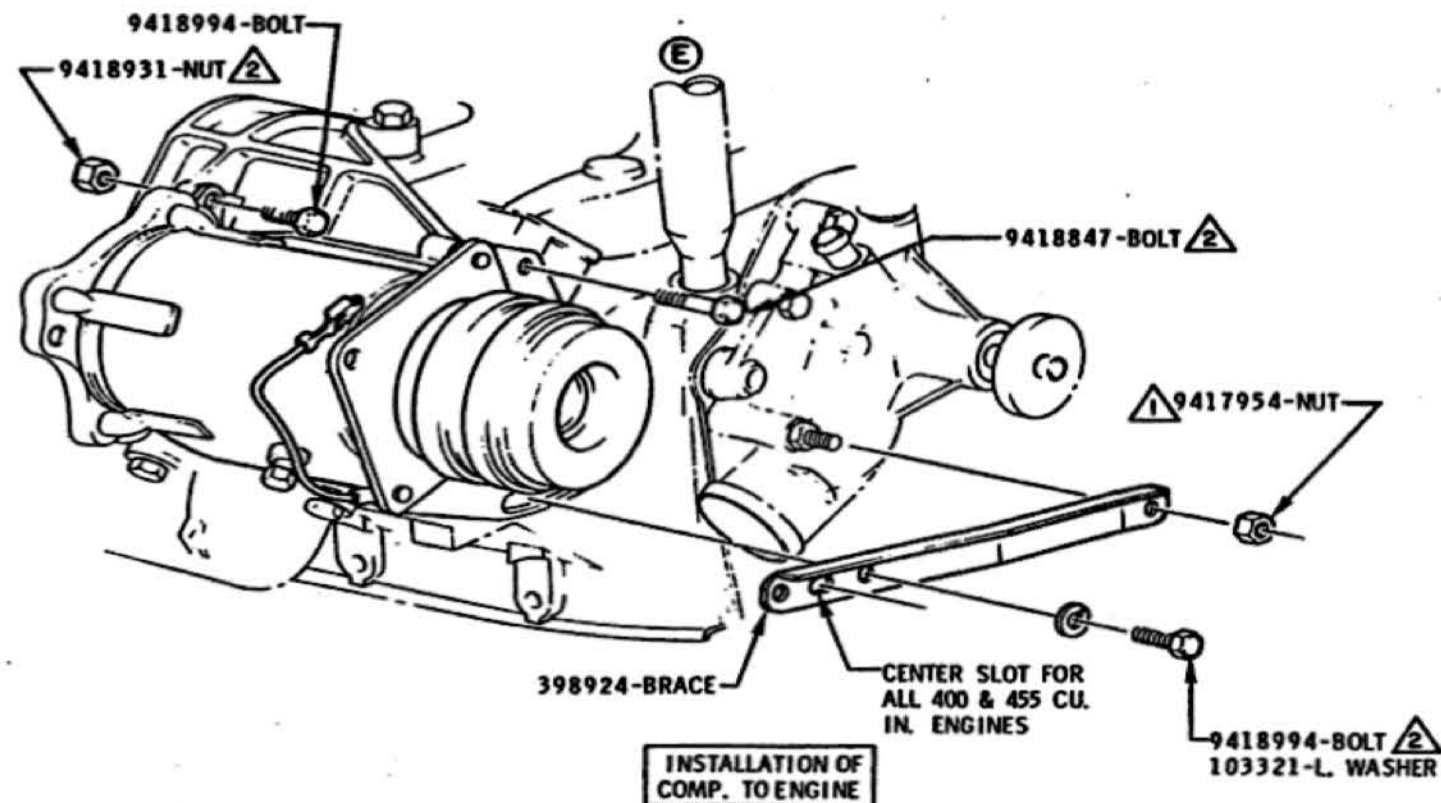
INSTALLATION BRACKETS TO ENGINE



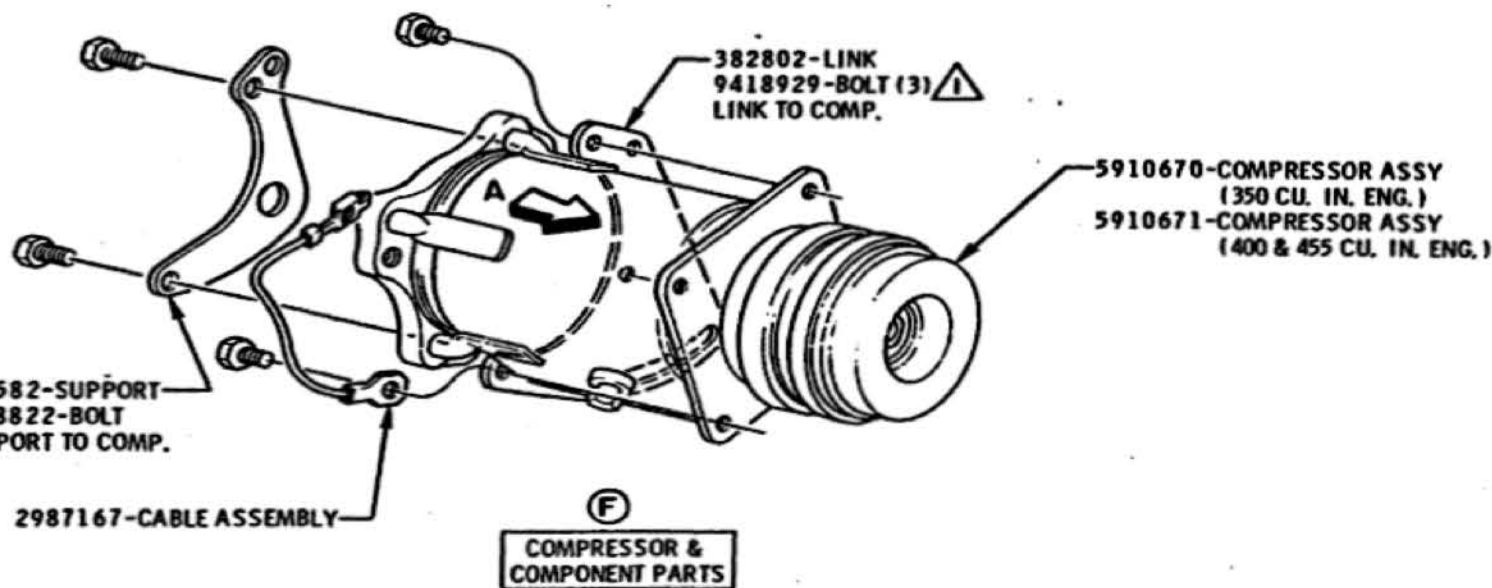
SHIELD TO COMPRESSOR (E CAR ONLY)

VIEW A

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

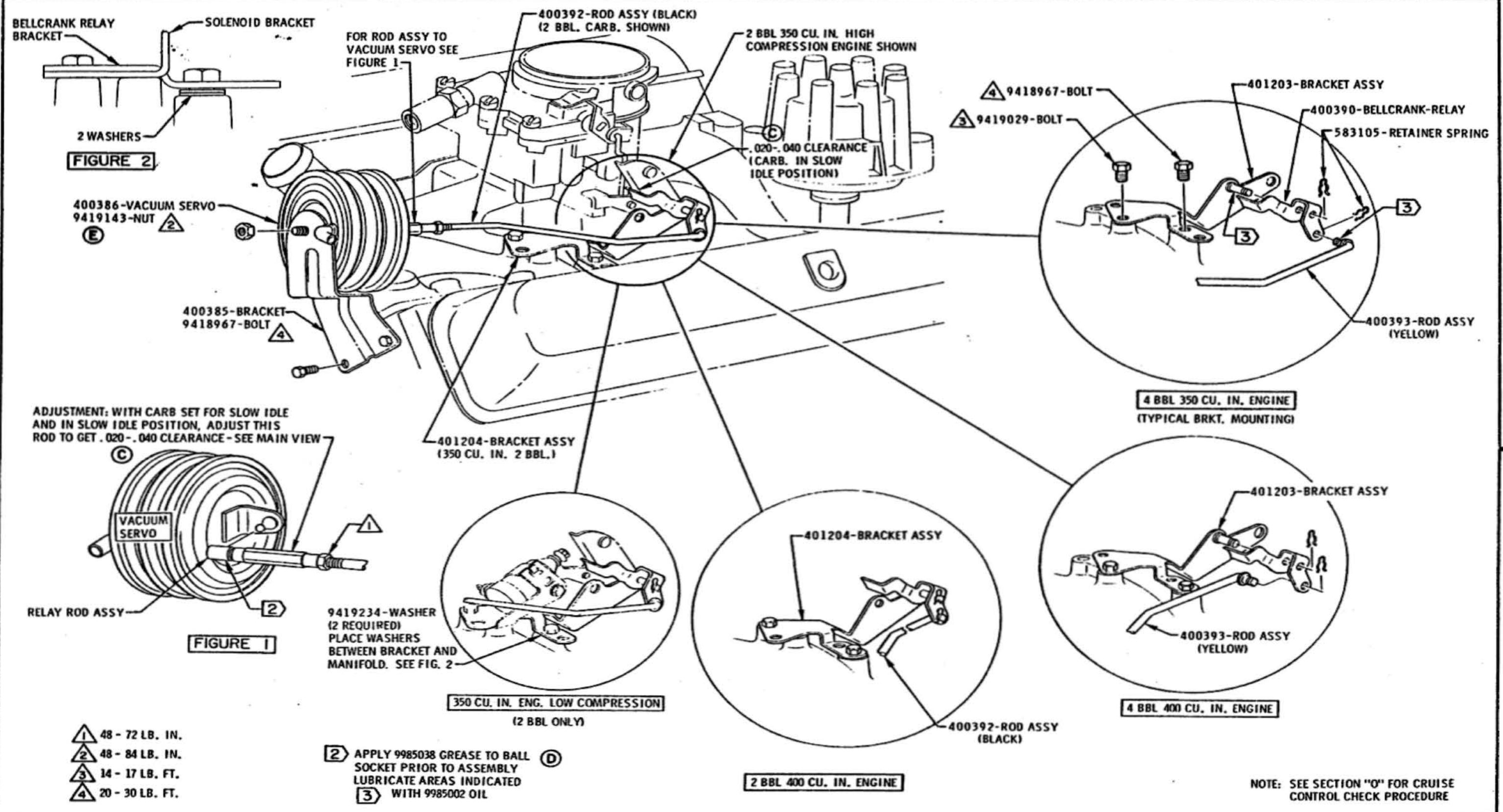


INSTALLATION OF COMP. TO ENGINE



COMPRESSOR & COMPONENT PARTS

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.
					11-16-65	E ₂	BACKGROUND REVISED	PL	PT							AIR CONDITIONING COMPRESSOR AND BRACKETS	1968		6-1	213	
					7-10-67	D	TORQUE SPECS. ADDED	DR	PT							DATE NOVEMBER 14, 1966					
					7-10-67	C	5910671 COMP. ADDED	DR	PT							DR. BY CUET MAY					
					7-10-67	B	VIEW ADDED	DR	PT							CHECKED BY <i>Samhart</i>					
					1-3-68	F	VIEW REVISED	DR	PT							APPR. <i>J. J. Ford</i>					
					1-3-68	A	CABLE ASSY BELO.	DR	PT								REF. A - 35C60 (1A2C & 12H) E - 35C60-61 (1A2C & 12H)	SERIES A-E			398162-4



ADJUSTMENT: WITH CARB SET FOR SLOW IDLE AND IN SLOW IDLE POSITION, ADJUST THIS ROD TO GET .020-.040 CLEARANCE - SEE MAIN VIEW

- ① 48 - 72 LB. IN.
- ② 48 - 84 LB. IN.
- ③ 14 - 17 LB. FT.
- ④ 20 - 30 LB. FT.

- ② APPLY 9985038 GREASE TO BALL SOCKET PRIOR TO ASSEMBLY LUBRICATE AREAS INDICATED
- ③ WITH 9985002 OIL

NOTE: SEE SECTION "O" FOR CRUISE CONTROL CHECK PROCEDURE

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
					12-8-67	E	WAS 4919143 NUT								CRUISE CONTROL VACUUM SERVO (EXC 35C60)				
					9-1-67	D	NOTE REVISED								DATE MAY 9, 1967	1968		6-1	350
					9-9-67	C2	WAS .030 CLEARANCE								DR. BY BOYER				
					6-26-67	B	VIEW ADDED								CHECKED <i>PTB</i>				
					6-25-67	A	BELLCRANK REV'D TO DETAIL								APPR. <i>F. REED</i>	REF. 35K 50			
																	SERIES	PART NO.	
																	A	398162	

PART NUMBER	UPC CODE	PRODUCTION CODE	TRANSMISSION		SPECIAL ACCESSORIES	
			SYNCHROMESH	AUTOMATIC	C60 / Y72	L90 (EXPORT)
399895	6	VA	X			
399896	C60	VB	X		X	
399897	L90	VJ	X			X
399898	M31	VE		X		
399899	C60	VF		X	X	
399900	L90	VK		X		X

(A)

PRODUCTION CODE LETTER TAG
WILL BE APPLIED BY VENDOR

250 CUBIC IN. (L-6) ENGINE ASSEMBLIES

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	MANUAL SECTION	PAGE	SERIES	PART NO.
													CHART- ENGINE IDENTIFICATION	1968		6-2	100	A	400364
													DATE FEB 2, 1967 DR. BY BILL SCHMIDT CHECKED DON MALKIN APPR. DH HICKHACK						
													53167 A WAS Y76						

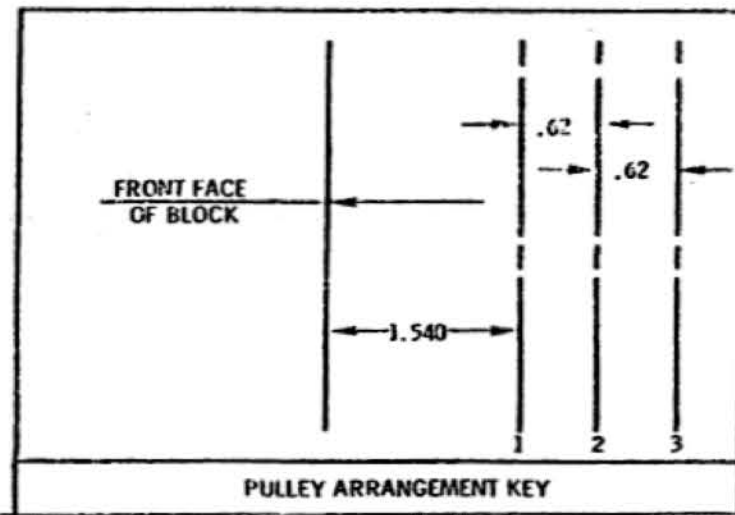
OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

G. SANDALL, INC. FORM

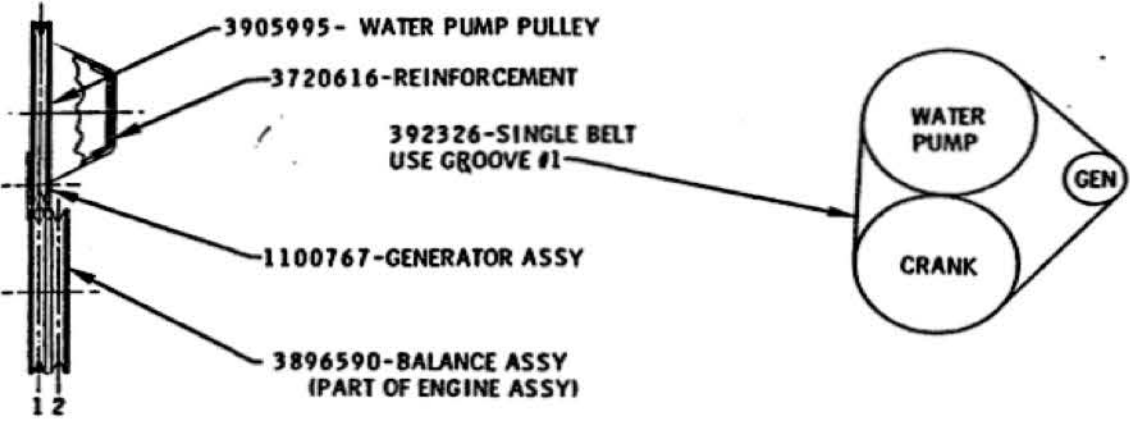
1968 PRODUCTION DRIVE-RATIOS			1968 PRODUCTION PULLEYS						1968 PRODUCTION DRIVE BELTS		
PULLEY	RATIO	USAGE	CODE	PART NO.	DESCRIPTION	P. D.	O. D.	NO. OF GROOVES	CODE	PART NO.	BELT LENGTH
CRANK FAN	$\frac{6.64}{7.00} = .948$ TO 1	NON AIR CONDITIONING	•	3896591	FAN DRIVE	7.18	7.28	2	MA	392326	38.86
CRANK FAN	$\frac{7.18}{6.19} = 1.160$ TO 1	AIR CONDITIONING	•	3896590	FAN DRIVE	6.64	6.72	2	MC	392327	38.64
CRANK GENERATOR	$\frac{6.64}{2.50} = 2.656$ TO 1	NON AIR CONDITIONING	BV	3876872	GEN. DRIVE	7.18	7.30	1	WB	3845648	49.50
CRANK GENERATOR	$\frac{7.18}{2.50} = 2.872$ TO 1	AIR CONDITIONING	CT	3890419	FAN & WATER PUMP	6.19	6.31	2	(A) MD	392333	31.14
CRANK POWER STEERING	$\frac{6.64}{5.60} = 1.186$ TO 1	NON AIR CONDITIONING	CF	3905995	FAN & WATER PUMP	7.00	7.12	1	(A) LH	393183	53.85
CRANK POWER STEERING	$\frac{7.18}{5.60} = 1.282$ TO 1	AIR CONDITIONING	CH	3900434	FAN & WATER PUMP	7.00	7.12	2			
			CI	3791943	POWER STEERING	5.60	5.71	1			
			(A)								
			(A)								
CRANK A/C COMPRESSOR	$\frac{7.18}{4.750} = 1.511$ TO 1	AIR CONDITIONING	• PART OF ENGINE ASSEMBLY								

1968 PRODUCTION GENERATORS					
CODE	PART NO.	AMPS	PULLEY		
			NO. OF GROOVES	P. D.	O. D.
AG	1100767	37	1	2.50	2.62
VB	1100762	37	?	2.50	2.62
AJ	1100777	55	1	2.50	2.62
BF	1100802	55	2 (1.24 SPAC)	2.50	2.62
AA	1100730	55	2 (.70 SPAC)	2.50	2.62

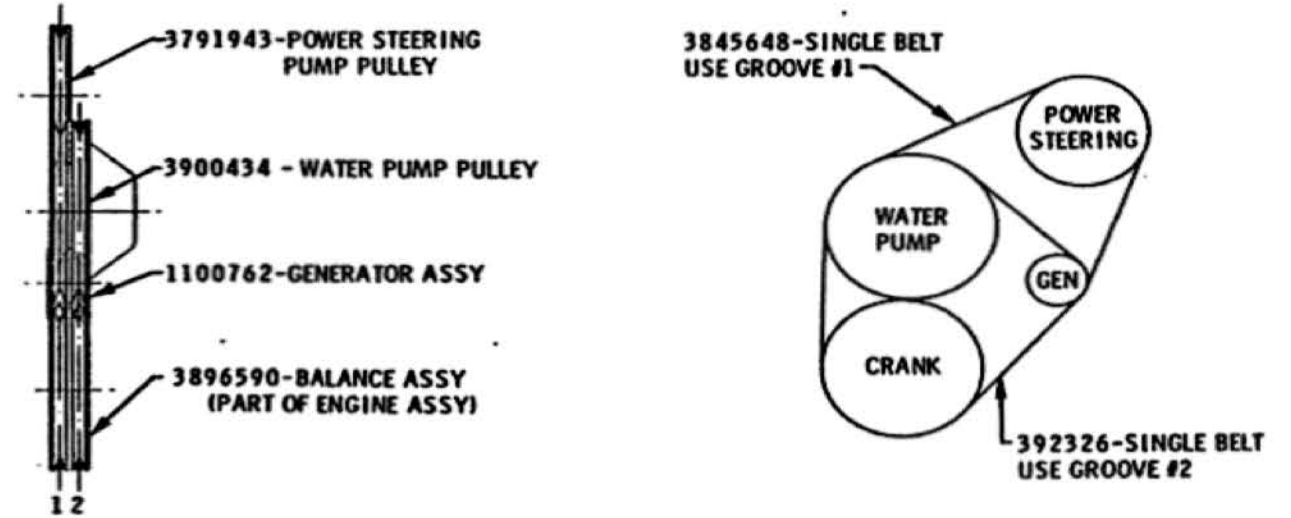


250 CUBIC INCH L-6 SHEET 2

TITLE										CHART-PULLEY & BELT DATA										
DATE <i>FEB 25 1967</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE				
DR. BY <i>BILL SCHMIDT</i>										1968		INFORMATION MANUAL		6-2		110				
CHECKED <i>B. J. ...</i>										REF.		SERIES		PART NO.		400407				
APPR. <i>J. ...</i>												A								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

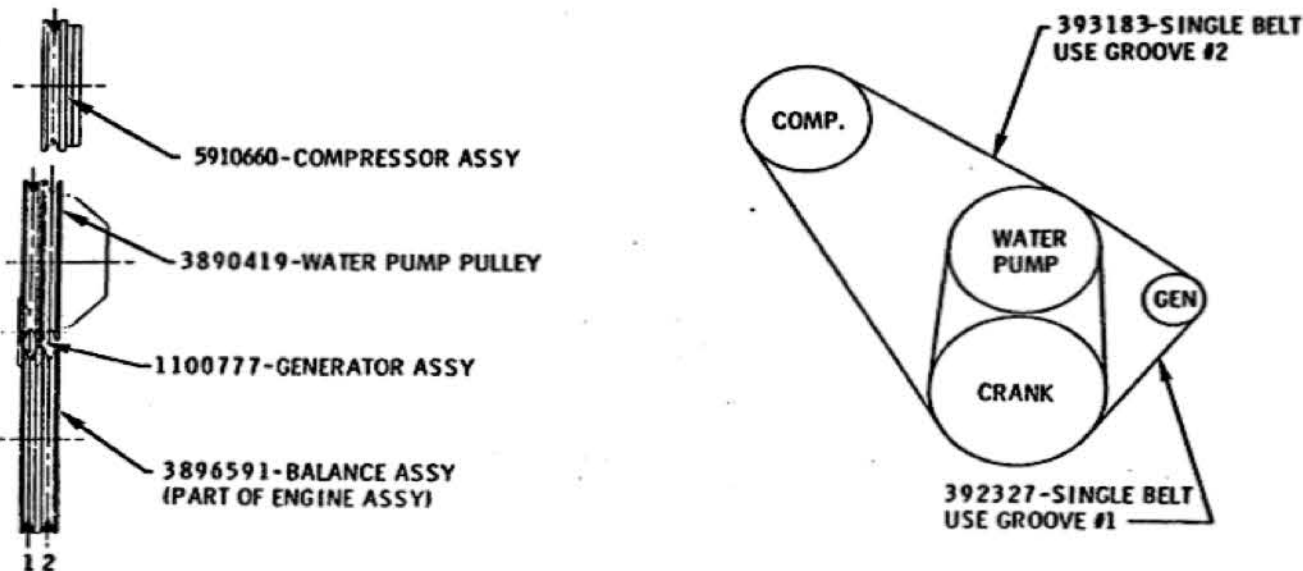


STD. (B)

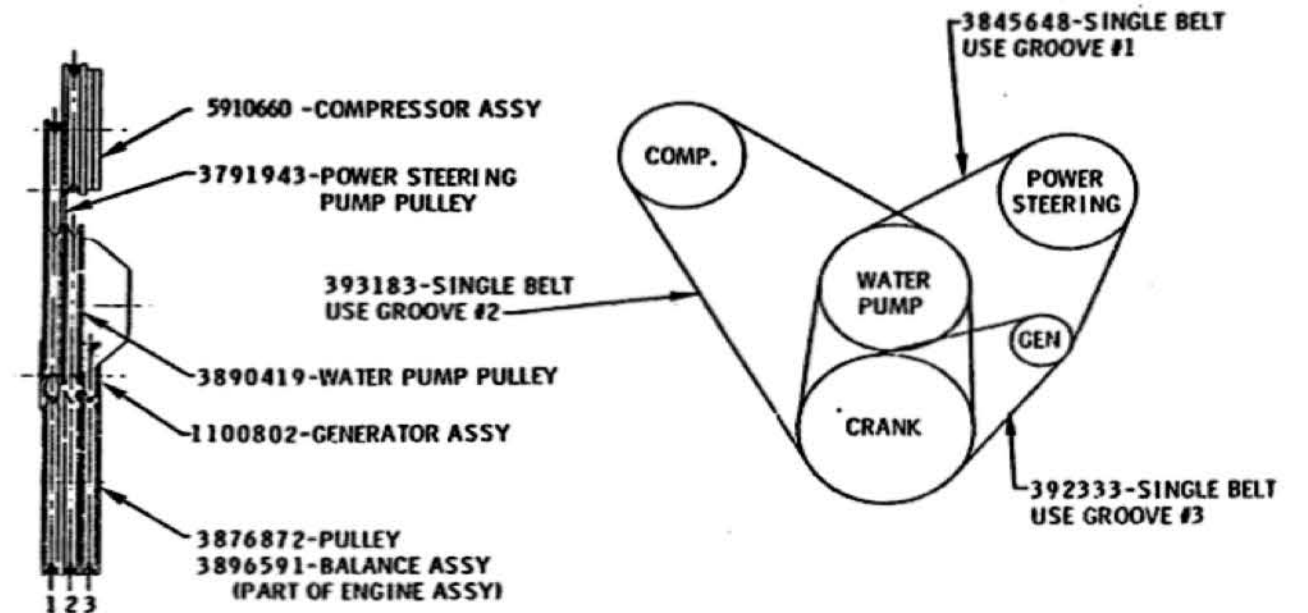


STD. WITH N40 (C)

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



C60 (D)



C60 WITH N40 (E)

ENGINE-250 CU. IN. L6
COLOR-GOLD

SHEET 5

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	C	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	SERIES	PART NO.
																						CHART-PULLEY & BELT DIAGRAM	1968	6-2	111	A	400408	
																						DATE FEB 24, 1967	1968	6-2	111	A	400408	
																						DR. BY BILL SCHMIDT	1968	6-2	111	A	400408	
																						CHECKED J. J. F. R. L.	1968	6-2	111	A	400408	
																						APPR.	1968	6-2	111	A	400408	
																							1968	6-2	111	A	400408	
																							1968	6-2	111	A	400408	
																							1968	6-2	111	A	400408	
																							1968	6-2	111	A	400408	
																							1968	6-2	111	A	400408	
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																							1968	6-2	111	A	400408	
																							1968	6-2	111	A	400408	
																							1968	6-2	111	A	400408	
																							1968	6-2	111	A	400408	

I SLOW IDLE ADJUSTMENT

- A. CARBURETOR AS RECEIVED FROM ROCHESTER PRODUCTS AND INSTALLED BY ENGINE PLANT REQUIRES NO ADJUSTMENT ON FINAL ASSEMBLY LINE.
- B. IDLE SPEED CHECK
 - 1. SMT - APPROX. 700 RPM IN NEUTRAL, SOLENOID ELECTRICALLY CONNECTED, 400 RPM ELECTRICALLY DISCONNECTED.
 - 2. AMT - APPROX. 575 RPM IN NEUTRAL, SOLENOID ELECTRICALLY CONNECTED, 400 RPM ELECTRICALLY DISCONNECTED.
 - 3. CHECK TO SEE THROTTLE RETURN SPRING IS EFFECTIVELY HOLDING THROTTLE AGAINST STOP.

© II THROTTLE SWITCH DOWNSHIFT CIRCUIT ADJUSTMENT JT CARS ONLY

- A. REQUIRED CONDITIONS
 - 1. DOWNSHIFT SWITCH & CARPET INSTALLED.
- B. ADJUSTMENTS
 - 1. PUSH PLUNGER OF DOWNSHIFT SWITCH FORWARD UNTIL FLUSH WITH SWITCH HOUSING.
 - 2. PUSH ACCELERATOR PEDAL TO WIDE OPEN POSITION TO SET SWITCH.

NOTE: THESE ADJUSTMENTS ARE FOR ASSEMBLY LINE ONLY. FOR REPAIR AREA OR DEALER SERVICE SEE SERVICE MANUAL TO CORRECTLY SET SLOW IDLE, FAST IDLE, AND CHOKE.

250 CUBIC IN. L-6

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	MANUAL SEC.	PAGE	SERIES	PART NO.
																CHART-THROTTLE ADJUSTMENT	1968	6-2	119	A	401150	
					8-11-67	C	STEP I ADDED	KL								DATE APRIL 12, 1967						
					7-31-67	B	CHART REVISED	KL								DR. BY G.W. BURRIS						
					6-9-67	A	CHART REVISED	KL								CHECKED J.L. WEISS 4.8						

**1968 250 CUBIC INCH (L-6) ENGINE ASSEMBLIES
CONVERSION PROCEDURES**

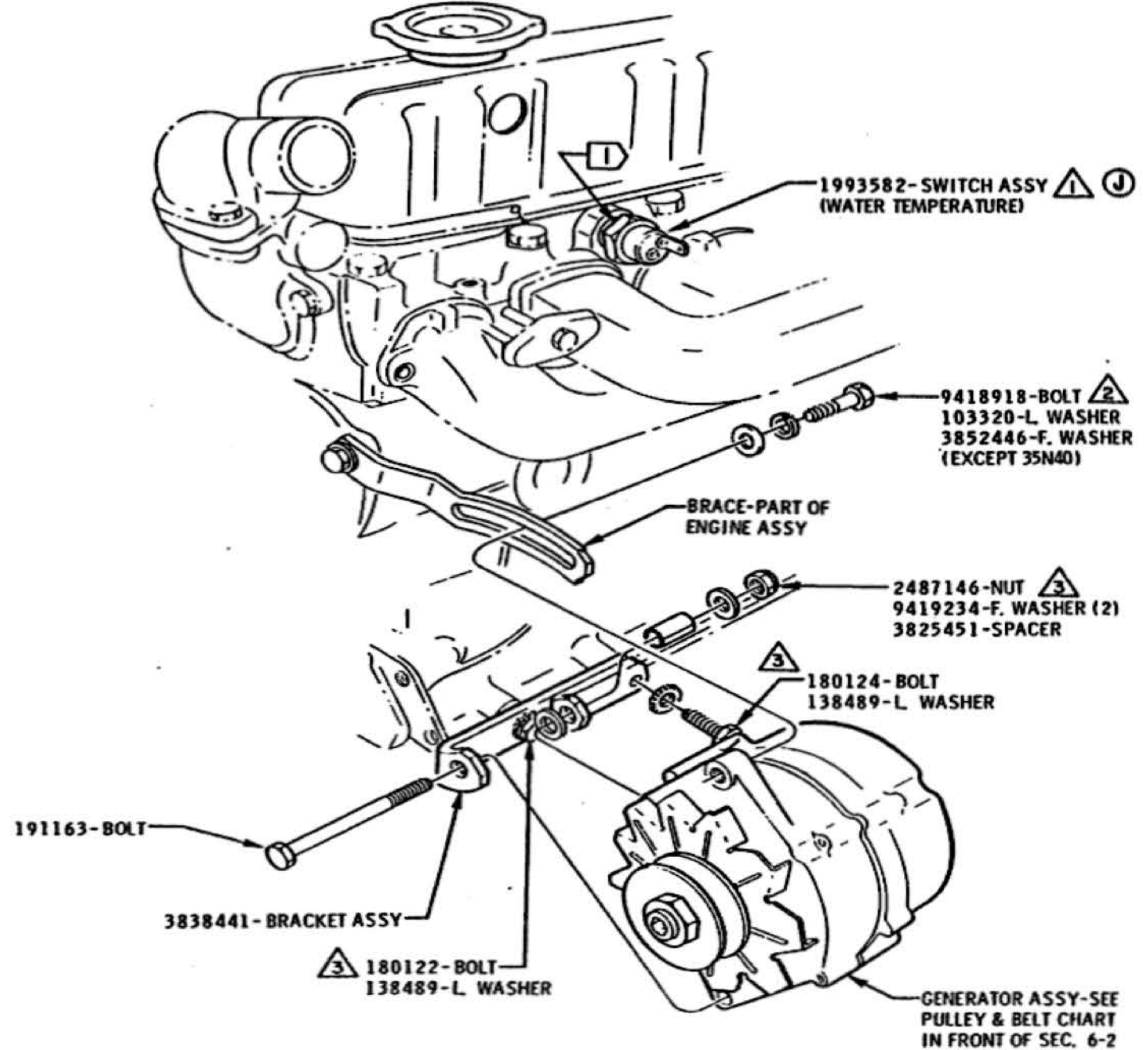
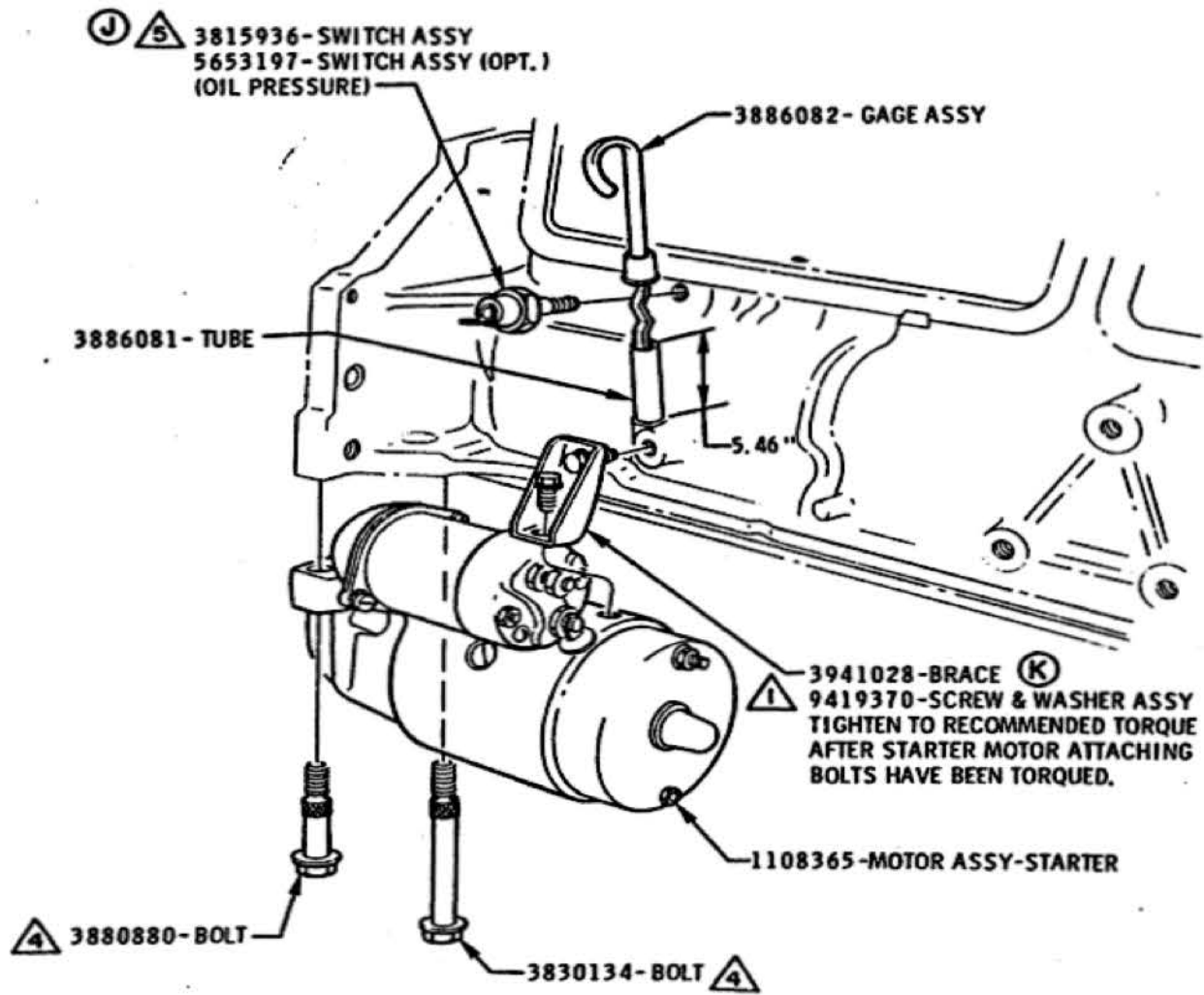
EXPORT ONLY ^(A) CONVERT TO 35C60 OR Y72 BY THE FOLLOWING		
ITEM	REMOVE	INSTALL
DAMPER ASSY. - CRANKSHAFT TORSIONAL	3896590 (SCRAP)	3896591
COVER ASSY. - CRANKCASE FRONT	3879686 (SCRAP)	3879688

SHEET 2

										TITLE		CHART - ENGINE CONVERSION				
										DATE <u>MARCH 27, 1967</u>		FIRST USED	OLDSMOBILE PRODUCT		MANUAL SECTION	PAGE
										DR. BY <u>RODNEY DAVIS</u>		1968	INFORMATION MANUAL		6-2	120
										CHECKED <u>J. FINES</u>		REF.	SERIES		PART NO.	
										APPR. <u>AL J</u>			A		401099	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	

92967 A Y72 ADDED

AL J



TYPICAL GENERATOR INSTALLATION

- 1 15-20 LB. FT.
- 2 20-25 LB. FT.
- 3 25-35 LB. FT.
- 4 30-40 LB. FT.
- 5 100-125 LB. IN.

(H) APPLY SEALER 9985000 TO AREAS INDICATED PRIOR TO ASSEMBLY

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
					2-2-68	K	WAS 3819213	PL	MTB	6-18-67	E	REVISED									OIL PRESS. UNIT, DIP STICK STARTER & GEN.				
					12-7-67	J ₂	TORQUE ADDED	PL	MTB	5-25-67	D	PART NO. REMOVED									DATE MARCH 6, 1967	1968		6-2	125
					10-5-67	H	NOTE ADDED	SE	MTB	4-24-67	C	WAS 3.58									DR BY H.S.M. - W.E.M.				
					7-5-67	G ₂	PART NO.S REVISED	SE	MTB	4-24-67	B ₂	PART NUMBERS REVISED									CHECKED MTB				
					6-26-67	F ₂	PART NO.S REVISED	PL	MTB	4-5-67	A	WAS 1107339									APPR. CB	REF. 6G2 6G4 6Y1 6Y2 12V 35M31	SERIES A	PART NO. 398162	

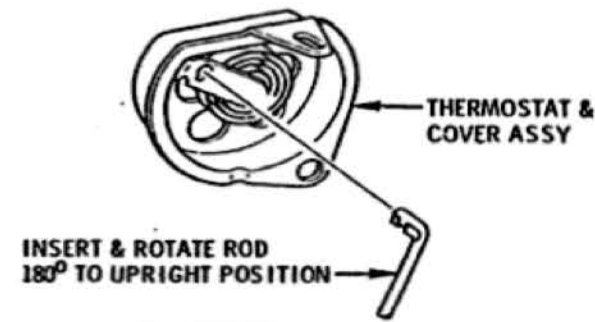


FIGURE 1

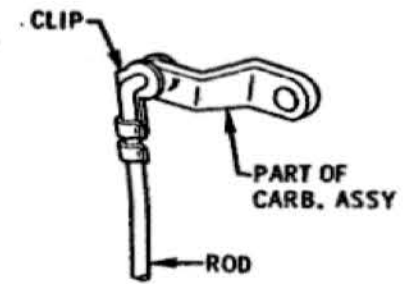
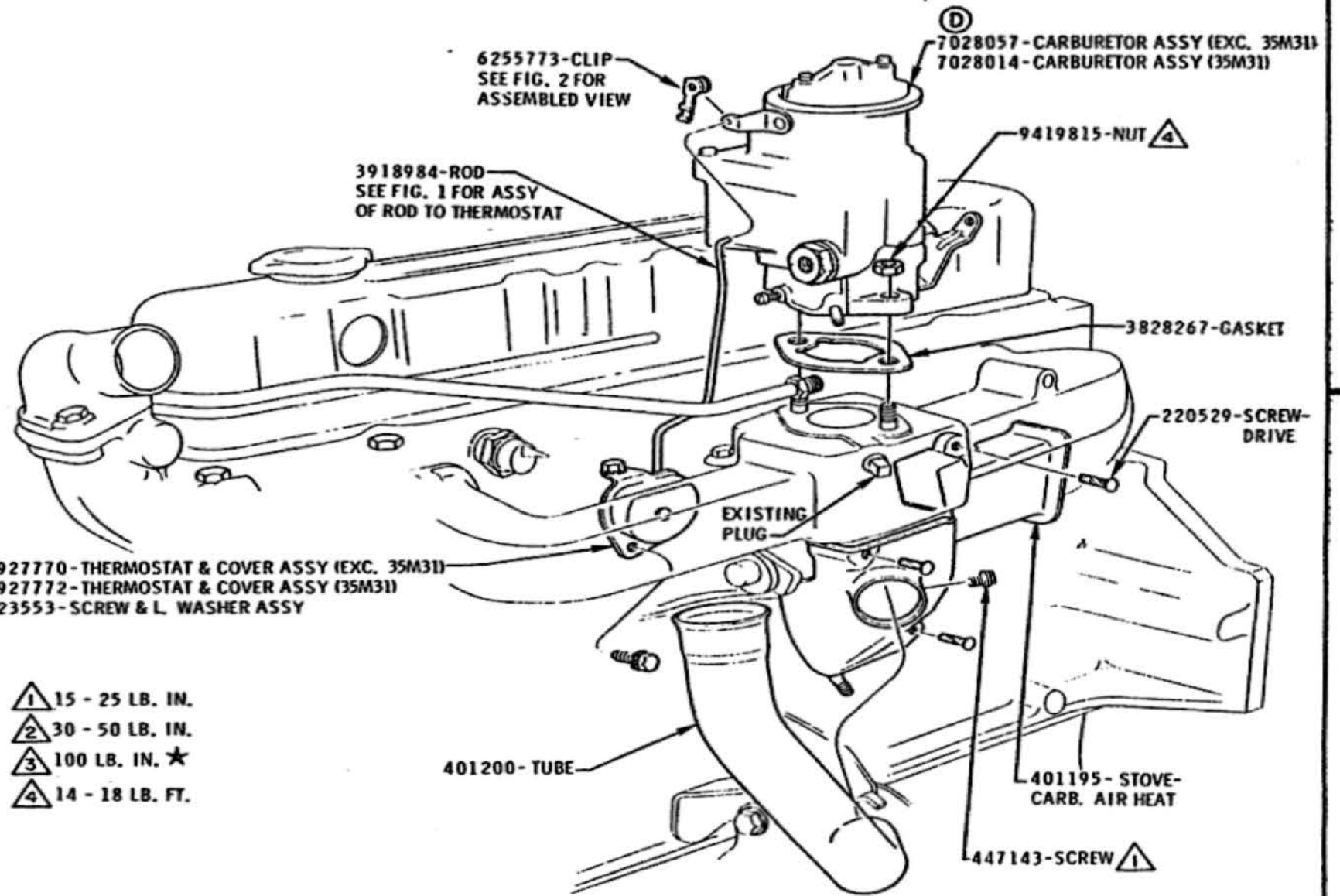
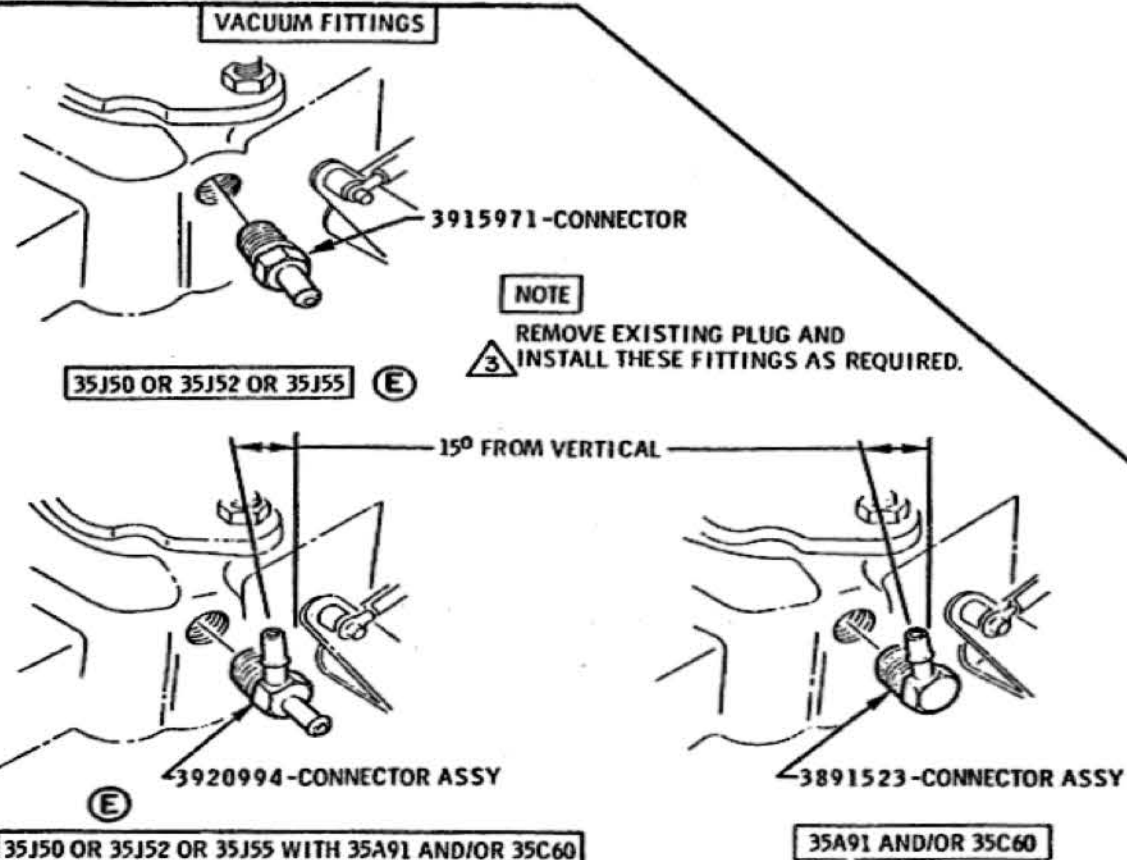


FIGURE 2

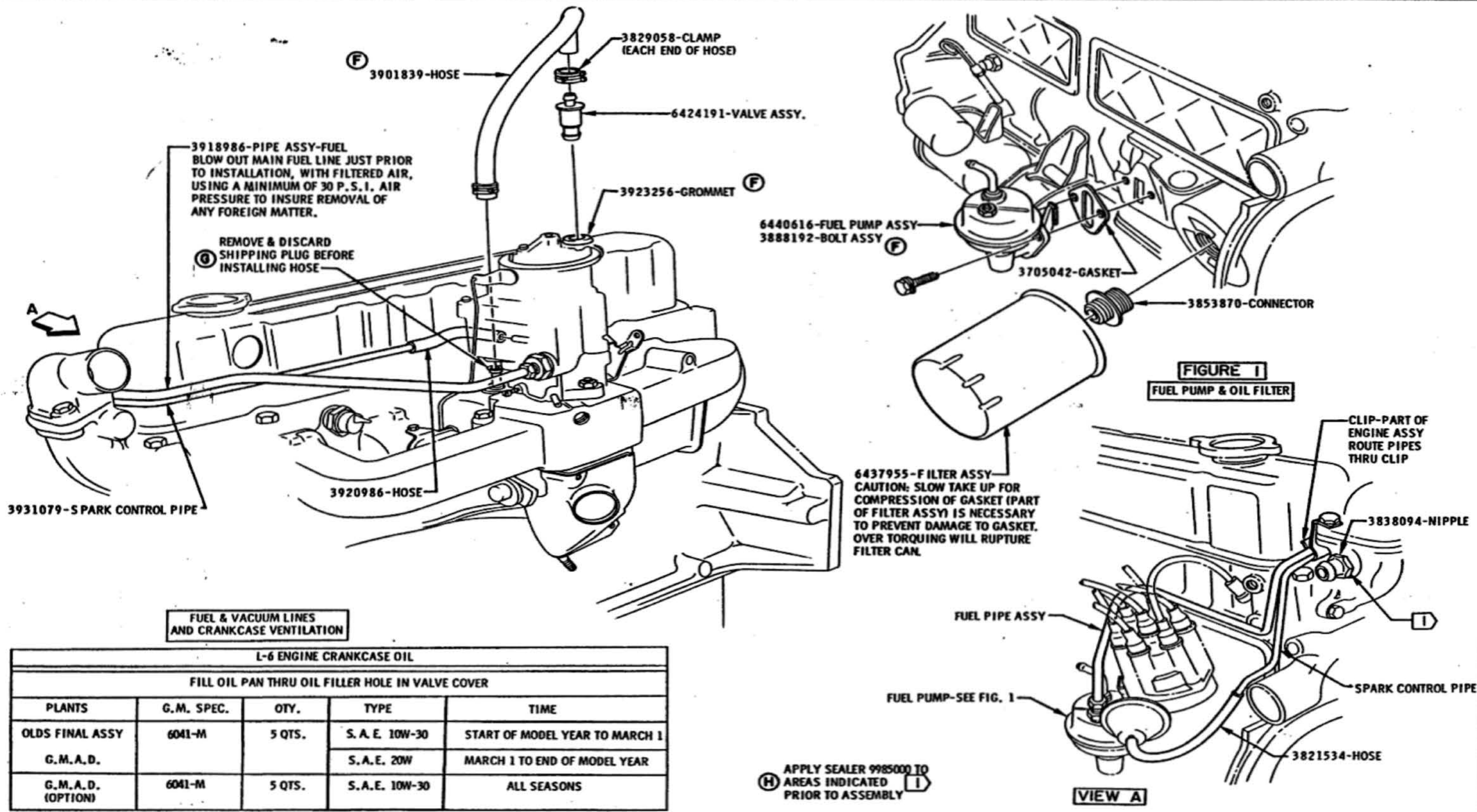


- Δ 1 15 - 25 LB. IN.
- Δ 2 30 - 50 LB. IN.
- Δ 3 100 LB. IN. ★
- Δ 4 14 - 18 LB. FT.

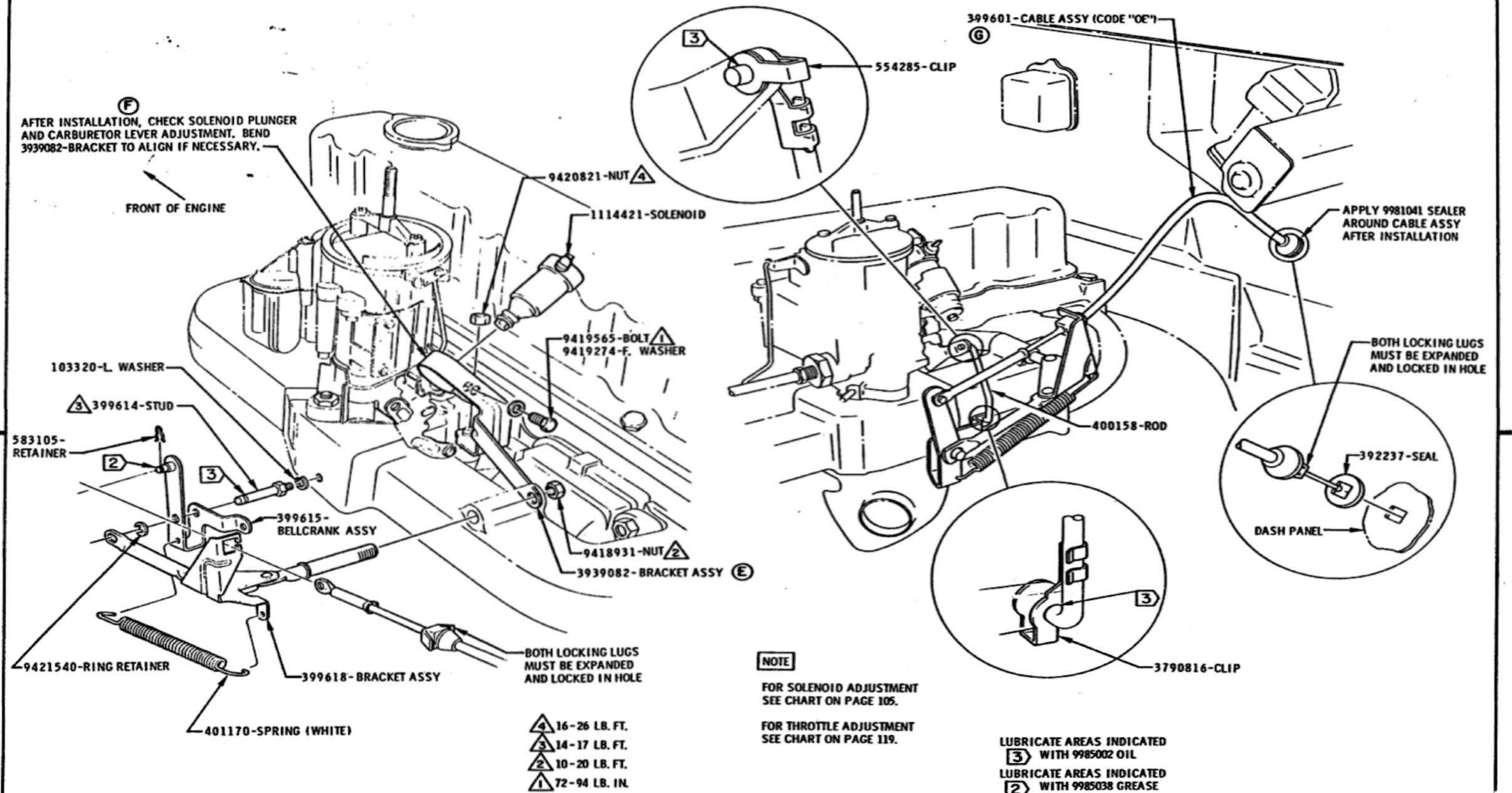
★ PLUS TORQUE REQUIRED TO ALIGN FITTINGS



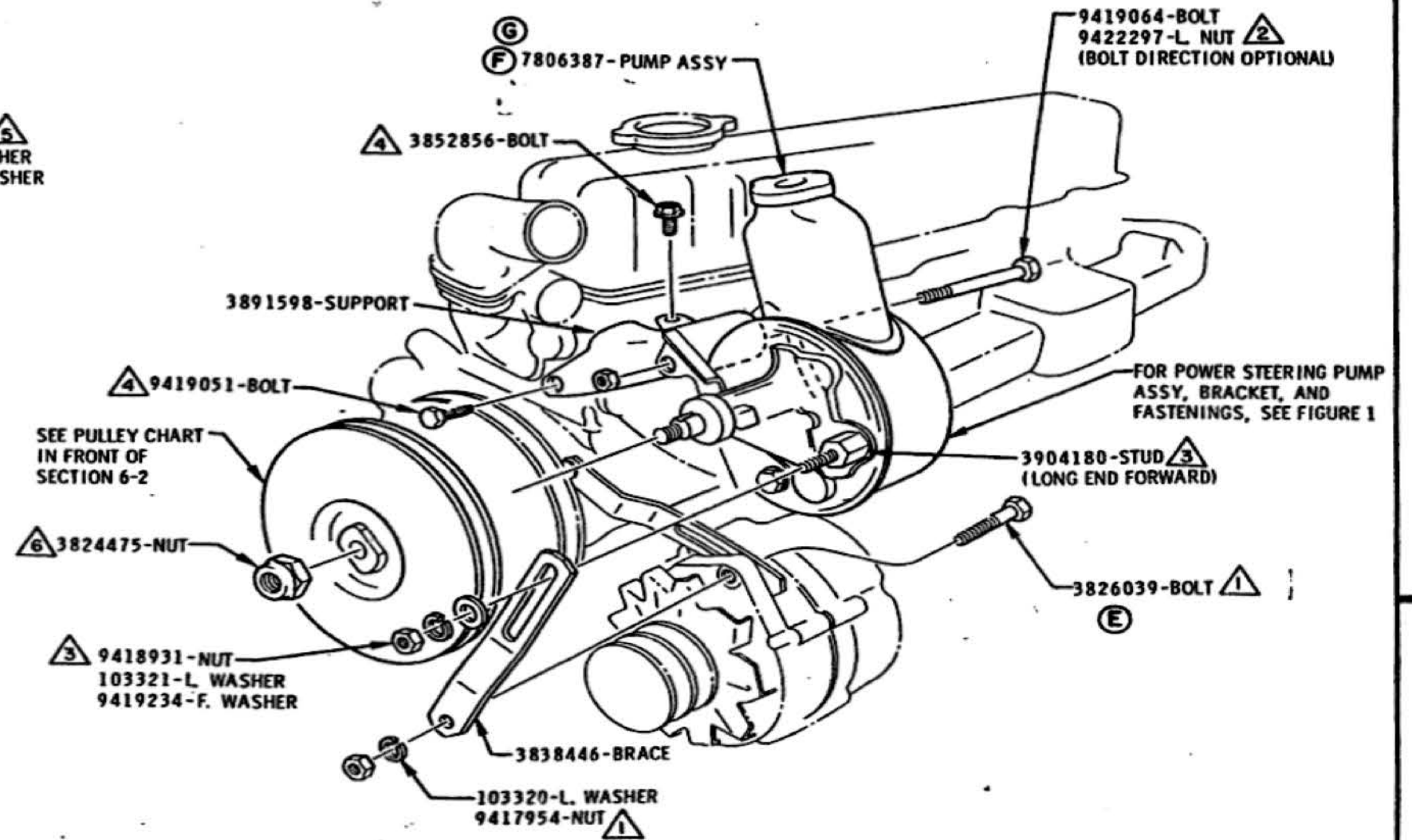
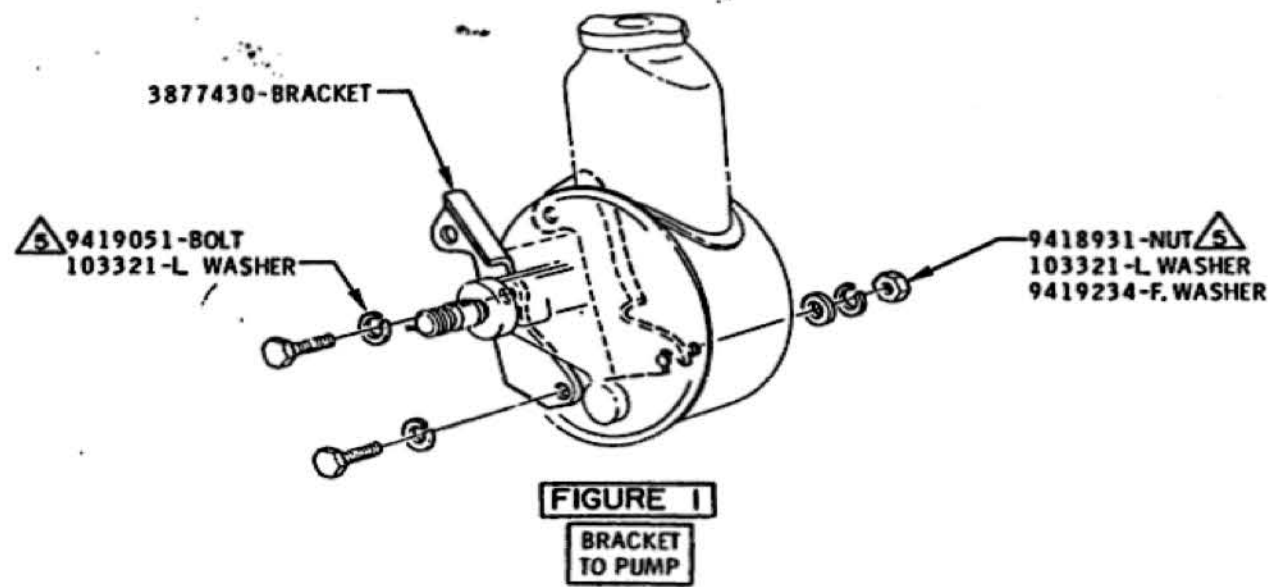
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
6-15-67	E ₂	35J55 ADDED														CARBURETOR, HEAT STOVE & AIR PIPE	1968		6-2	126
6-15-67	D	WAS 7028017-CARB.														DATE MARCH 7, 1967				
6-15-67	C	VIEW REMOVED														DR. BY W.E. MASON				
5-28-67	B	PART NO. ADDED														CHECKED <i>W. Barrell</i>				
11-2-67	F	WAS 3927727 & 3821564														APP. <i>W. Barrell</i>	REF. 6L 6M1	SERIES A	PART NO.	398162
																35A91, 35C60, 35J50				



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
					6-22-67	E	3928988 REMOVED									PIPES, VENTILATION, OIL FILTER & FUEL PUMP				
					6-22-67	D	PART NO. REVISED									DATE MARCH 31, 1967	1968		6-2	128
					6-15-67	C	BACKGROUND REVISED									DR. BY W.E. MASON				
					5-25-67	B	HAS 3859374-CONNECTOR									CHECKED [Signature]				
					5-15-67	A	CHART REVISED									APPR. [Signature]	REF. 1A2C 665 6H	SERIES A	PART NO. 398162	
					7-6-67	F3	PART NO. 5 REVISED										6M4 6Y3			

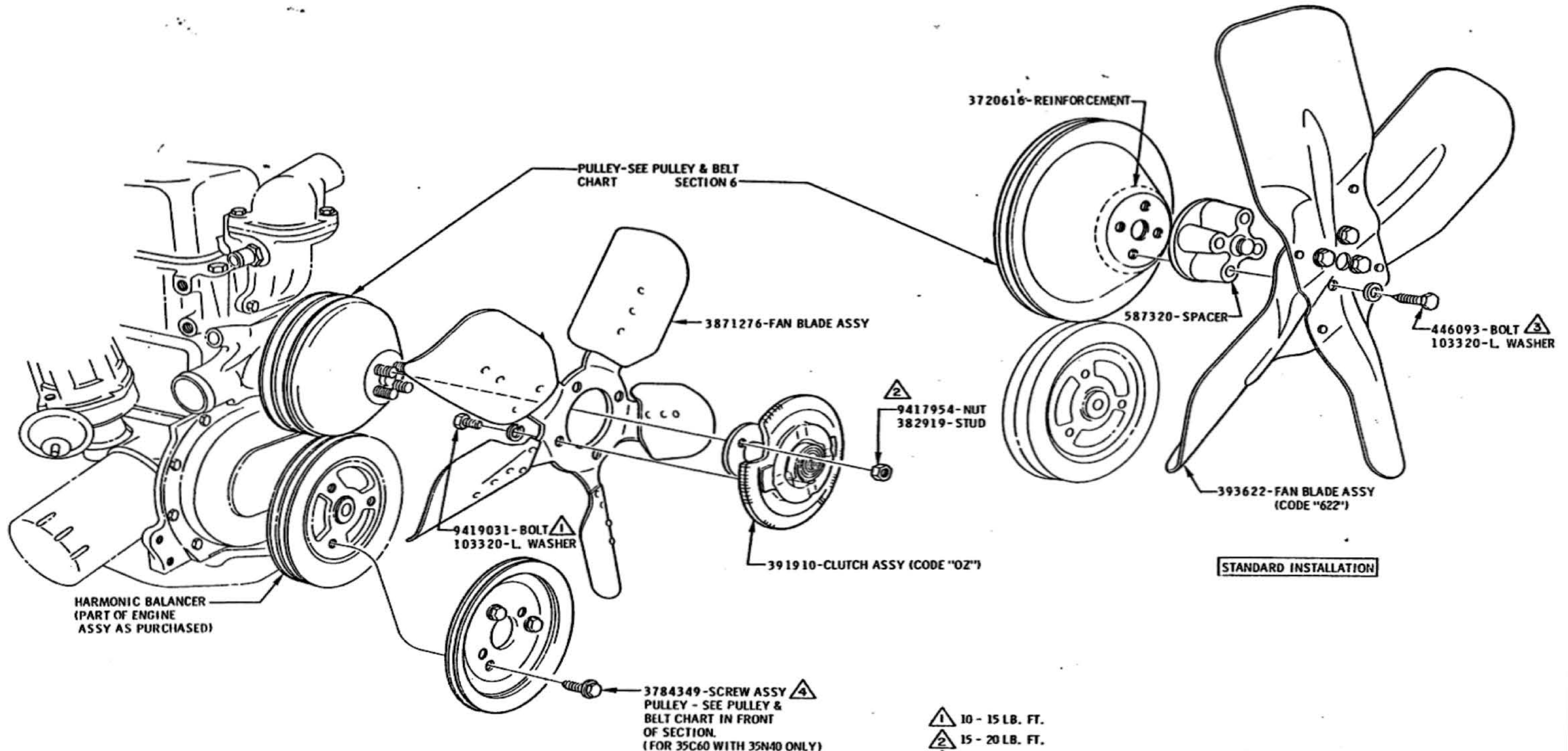


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					11-27-67	E	WAS 3928986	MEM	PTB							THROTTLE CONTROL				
					10-19-67	D	LUBE ADDED	MEM	PTB							DATE JANUARY 25, 1967	1968		6-2	135
					9-28-67	C	VIEW REVISED & REDRAWN	MEM	PTB							DR. BY W.E. MASON				
		223-68	G		8-21-67	B ₂	NOTE REVISED	MEM	PTB							CHECKED (MFB) arnhart				
		12-20-67	F		7-31-67	A	REVISED & REDRAWN	MEM	PTB							APPR.	REF. 6N2	SERIES A	PART NO. 398162	



- ① 100 - 140 LB. IN.
- ② 15 - 20 LB. FT.
- ③ 15 - 24 LB. FT.
- ④ 15 - 25 LB. FT.
- ⑤ 20 - 30 LB. FT.
- ⑥ 55 - 70 LB. FT.

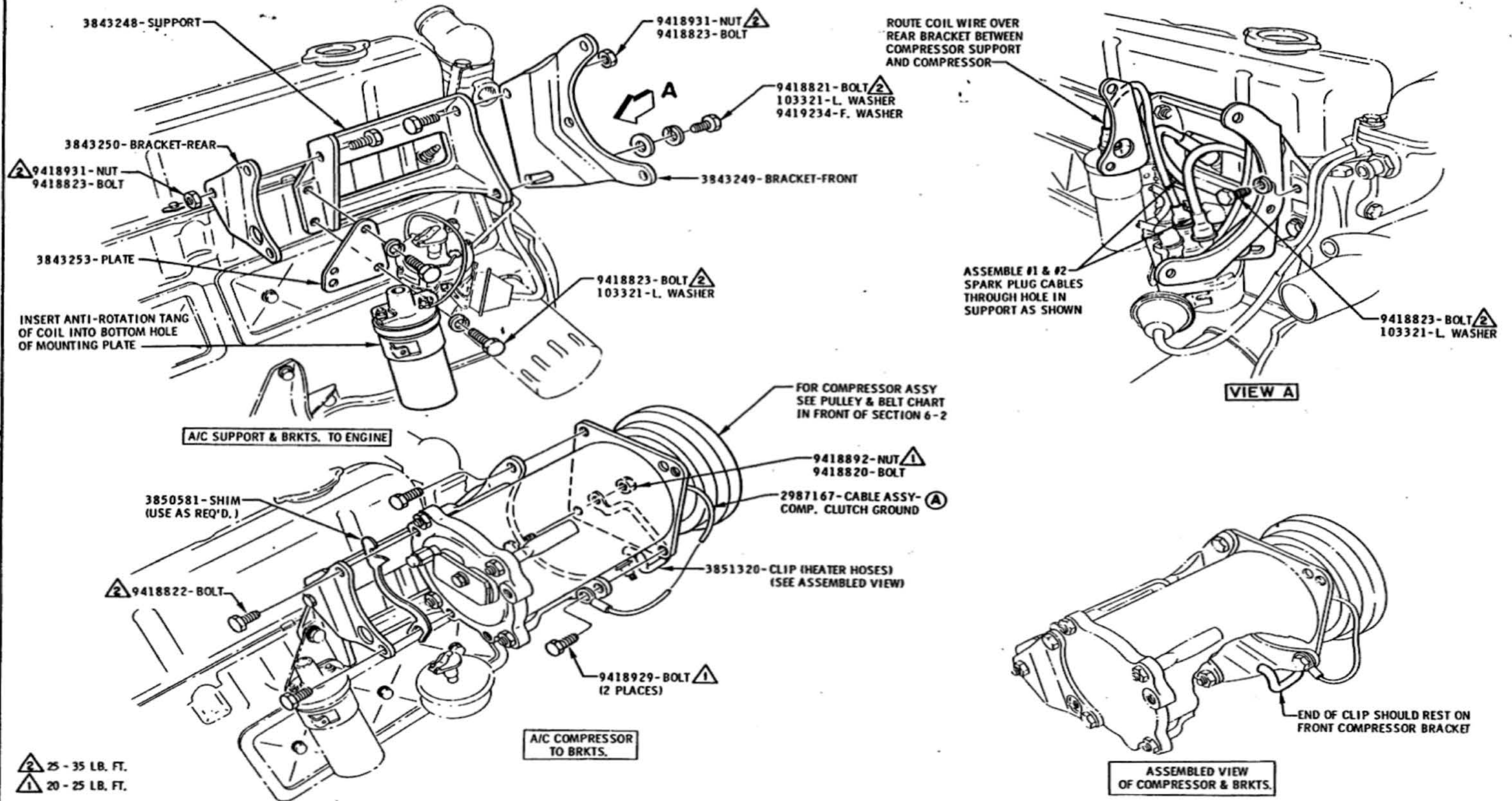
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					7-5-67	E	F. WASHER REMOVED	DR	PTB							POWER STEERING PUMP & BRACKET				
					6-27-67	D	WAS 382446-F. WASHER	DR	PTB							DATE MARCH 1, 1967	1968		6-2	136
					6-27-67	C	WAS 2487166-L. NUT	DR	PTB							DR. BY W.E. MASON				
					3-1-68	G	WAS 7800514	DR	PTB							CHECKED <i>W.E. Mason</i>				
					12-27-67	F	PART NUMBER ADDED	DR	PTB							APPR. <i>B. J. Ford</i>	REF. 35440 15N31			
																		SERIES	PART NO.	
																		A	398162	



FOR CARS WITH 35C60/35Y72 (A)

- ① 10 - 15 LB. FT.
- ② 15 - 20 LB. FT.
- ③ 20 - 25 LB. FT.
- ④ 25 - 35 LB. FT.

													TITLE			FAN, PULLEY & CLUTCH				
										DATE <i>FEBRUARY 24, 1967</i>			FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE	
										DR. BY <i>SCOTT McDONALD</i>			1968		INFORMATION MANUAL		6-2		139	
										CHECKED <i>[Signature]</i>			REF. 6K1		SERIES		PART NO.		398162	
										7-1067 A			35C60-Y76 (6K1-6Y1)		A					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.					



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

TITLE										AIR CONDITIONING COMPRESSOR AND BRACKETS									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPL.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																1968		6-2	210
																REF. 35C60			
																(1A2C) (6Y4) (12H)	SERIES	PART NO.	
																	A	398162	

TRANSMISSION TYPE	AXLE RATIO	REAR TIRES			N/V		SPEEDO DRIVE GEAR		SPEEDO DRIVEN GEAR			ADAPTER RATIO #	DESIRED RATIO		DRIVE RATIO	% ERROR	
		SIZE	#		45 MPH	60 MPH	PART NO.	TEETH	TEETH	PART NO.	COLOR		45 MPH	60 MPH		45 MPH	60 MPH
			45 MPH	60 MPH													
4 SPEED FULLY SYNCHRONIZED (WIDE RATIO) M-20 (CLOSE RATIO) M-21	3.07 (43:14)	205R-14	778.0	777.1	39.82	39.78	3915004 (30 PITCH)	8	24	3860347	YELLOW	1.2720	2.3895	2.3868	3.0000	+ 1.31	+ 1.20
		F70-14	797.4	793.6	40.81	40.62			22	3860345	GREEN	1.1320	2.4491	2.4374	2.7500	+ 0.81	+ 0.33
		7.75-14	782.0	777.3	40.03	39.79			24	3860347	YELLOW	1.2720	2.4018	2.3874	3.0000	+ 1.83	+ 1.22
		7.75-15	750.0	747.0	38.39	38.23			23	3860346	BLACK	1.2720	2.3035	2.2943	2.8750	+ 1.91	+ 1.51
	3.31 (43:13)	205R-14	778.0	777.1	42.88	42.84	3915004	8	23	3860346	BLACK	1.1320	2.5733	2.5704	2.8750	+ 1.32	+ 1.20
		F70-14	797.4	793.6	43.95	43.74			23	3860346	BLACK	1.1320	2.6375	2.6249	2.8750	+ 3.85	+ 3.35
		7.75-14	782.0	777.3	43.11	42.85			23	3860346	BLACK	1.1320	2.5866	2.5710	2.8750	+ 1.84	+ 1.23
		7.75-15	750.0	747.0	41.34	41.18			22	3860345	GREEN	1.1320	2.4807	2.4708	2.7500	+ 2.11	+ 1.70
	3.42 (41:12)	205R-14	778.0	777.1	44.30	44.25	3915004	8	24	3860347	YELLOW	1.1320	2.6581	2.6550	3.0000	+ 0.30	+ 0.18
		F70-14	797.4	793.6	45.40	45.19			24	3860347	YELLOW	1.1320	2.7244	2.7114	3.0000	+ 2.80	+ 2.31
		7.75-14	782.0	777.3	44.53	44.26			24	3860347	YELLOW	1.1320	2.6718	2.6557	3.0000	+ 0.81	+ 0.21
		7.75-15	750.0	747.0	42.70	42.53			23	3860346	BLACK	1.1320	2.5625	2.5222	2.8750	+ 0.89	+ 0.49
	3.91 (43:11)	205R-14	778.0	777.1	50.68	50.62	3915004	8	24	3860347	YELLOW	NONE	3.0412	3.0377	3.0000	+ 1.37	+ 1.25
		F70-14	797.4	793.6	51.95	51.70			24	3860347	YELLOW	NONE	3.1171	3.1022	3.0000	+ 3.90	+ 3.40
		7.75-14	782.0	777.3	50.94	50.64			24	3860347	YELLOW	NONE	3.0569	3.0385	3.0000	+ 1.89	+ 1.28
		7.75-15	750.0	747.0	48.86	48.66			23	3860346	BLACK	NONE	2.9318	2.9200	2.8750	+ 1.97	+ 1.56

NOTE: DATA FOR 7.75 X 14 SIZE APPLIES TO STANDARD, EXPORT AND 8 PLY TIRES.

REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE.

USE RIGHT ANGLE SPEEDOMETER DRIVE ADAPTERS ONLY.

1.1320 - ADAPTER 395431 (NO COLOR)

1.2720 - ADAPTER 401539 (GREEN)

CHART FOR GROUP 96C
CANADIAN BUILT F-85 MODELS

SHEET 2

										TITLE		CHART - SPEEDOMETER GEAR USAGE		FIRST USED		OLDMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. PAGE	
										DATE APRIL 21, 1967		1968				7		97	
										DR. BY G.W. BURRIS									
										CHECKED W.L. WEISS 4/24									
										APPR.				SERIES		PART NO.		401295	
										APPR.				A					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

8. GANNON, INC. 4899

TRANSMISSION TYPE	AXLE RATIO	REAR TIRES				N/V		SPEEDO DRIVE GEAR		SPEEDO DRIVEN GEAR			SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY PART NO.	ADAPTER RATIO	DESIRED RATIO		DRIVE RATIO	% ERROR	
		SIZE	#		45 MPH	60 MPH	PART NO.	TEETH	TEETH	PART NO.	COLOR	45 MPH			60 MPH	45 MPH		60 MPH	
			45 MPH	60 MPH															45 MPH
6 & 8 CYLINDER JETAWAY TRANSMISSION	2.56 (41:16)	205R-14	778.0	777.1	33.22	33.18	1371878 (28 PITCH)	17	37	1359271	RED	396793	1.1250	1.9936	1.9913	2.1764	+ 3.04	+ 2.92	
		F70-14	797.4	793.6	34.05	33.89			34	9774413	LT. GREEN	396793	NONE	2.0433	2.0336	2.0000	+ 2.16	+ 1.68	
		7.75-14	782.0	777.3	33.39	33.19			34	9774413	LT. GREEN	396793	NONE	2.0038	1.9918	2.0000	+ 0.19	- 0.40	
		7.75-15	750.0	747.0	32.03	31.90			36	1359270	WHITE	396793	1.1250	1.9218	1.9141	2.1176	+ 2.09	+ 1.69	
	2.73 (41:15)	205R-14	778.0	777.1	35.44	35.40	1371878	17	35	9780387	ORANGE	396793	NONE	2.1265	2.1240	2.0588	+ 3.28	+ 3.16	
		F70-14	797.4	793.6	36.32	36.15			36	1359270	WHITE	396793	NONE	2.1795	2.1691	2.1176	+ 2.92	+ 2.43	
		7.75-14	782.0	777.3	35.62	35.41			36	1359270	WHITE	396793	NONE	2.1374	2.1246	2.1176	+ 0.93	+ 0.32	
		7.75-15	750.0	747.0	34.16	34.03			34	9774413	LT. GREEN	396793	NONE	2.0500	2.0418	2.0000	+ 2.50	+ 2.09	
	3.07 (43:14)	205R-14	778.0	777.1	39.82	39.78	1371878	17	40	1362048	BLACK	396794	NONE	2.3895	2.3868	2.3529	+ 1.55	+ 1.43	
		F70-14	797.4	793.6	40.81	40.62			41	1362195	YELLOW	396794	NONE	2.4491	2.4374	2.4117	+ 1.55	+ 1.06	
		7.75-14	782.0	777.3	40.03	39.79			40	1362048	BLACK	396794	NONE	2.4018	2.3874	2.3529	+ 2.07	+ 1.46	
		7.75-15	750.0	747.0	38.39	38.23			38	1359272	BLUE	396793	NONE	2.3035	2.2943	2.2352	+ 3.05	+ 2.64	
	3.31 (43:13)	205R-14	778.0	777.1	42.88	42.84	1371878	17	43	1362196	PURPLE	396794	NONE	2.5733	2.5704	2.5294	+ 1.73	+ 1.62	
		F70-14	797.4	793.6	43.95	43.74			44	9780470	DK. GRAY	396794	NONE	2.6375	2.6249	2.5882	+ 1.90	+ 1.41	
		7.75-14	782.0	777.3	43.11	42.85			43	1362196	PURPLE	396794	NONE	2.5866	2.5710	2.5294	+ 2.26	+ 1.64	
		7.75-15	750.0	747.0	41.34	41.18			41	1362195	YELLOW	396794	NONE	2.4807	2.4708	2.4117	+ 2.86	+ 2.44	
	3.42 (41:12)	205R-14	778.0	777.1	44.30	44.25	1371878	17	44	9780470	DK. GRAY	396794	NONE	2.6581	2.6550	2.5882	+ 2.70	+ 2.58	
		F70-14	797.4	793.6	45.40	45.19			45	9775187	LT. BLUE	396794	NONE	2.7244	2.7114	2.6470	+ 2.92	+ 2.43	
		7.75-14	782.0	777.3	44.53	44.26			45	9775187	LT. BLUE	396794	NONE	2.6718	2.6557	2.6470	+ 0.93	+ 0.32	
		7.75-15	750.0	747.0	42.70	42.53			43	1362196	PURPLE	396794	NONE	2.5625	2.5522	2.5294	+ 1.30	+ 0.90	
	3.91 (43:11)	205R-14	778.0	777.1	50.68	50.62	1371878	17	39	1359273	BROWN	396793	.7692	3.0412	3.0377	2.2941	+ 1.97	+ 1.85	
		F70-14	797.4	793.6	51.95	51.70			40	1362048	BLACK	396794	.7692	3.1171	3.1022	2.3529	+ 1.90	+ 1.41	
		7.75-14	782.0	777.3	50.94	50.64			39	1359273	BROWN	396793	.7692	3.0569	3.0385	2.2941	+ 2.49	+ 1.87	
		7.75-15	750.0	747.0	48.86	48.66			34	9774413	LT. GREEN	396793	.6944	2.9318	2.9200	2.0000	+ 1.79	+ 1.38	

NOTE: DATA FOR 7.75 X 14 SIZE APPLIES TO STANDARD, EXPORT AND 8 PLY TIRES.

REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE.

1.1250 - ADAPTER 540474 (NO COLOR)
.7692 - ADAPTER 535615 (YELLOW)
.6944 - ADAPTER 535613 (GRAY)

CHART FOR GROUP 96C
CANADIAN BUILT F-85 MODELS.

SHEET 3

REVISION	DR. CK.	DATE	SYM.	REVISION	DR. CK.	DATE	SYM.	REVISION	DR. CK.	DATE	SYM.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
												CHART - SPEEDOMETER GEAR USAGE	1968		7	98	A	401295
				9-16-67	D			REVISED				DATE APRIL 13, 1967						
				8-3-67	C			2.56 RATIO ADDED				DR. BY DON MALKIN						
				8-3-67	B			LINE ADDED				CHECKED W.L. WEISS						
				5-25-67	A			REVISED				APPR.						

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

D. CARROLL, INC. 4077

TRANSMISSION TYPE	AXLE RATIO	REAR TIRES				N/V		SPEEDO DRIVE GEAR		SPEEDO DRIVEN GEAR			SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY PART NO.	ADAPTER RATIO	DESIRED RATIO		DRIVE RATIO	% ERROR	
		SIZE	#		45 MPH	60 MPH	PART NO.	TEETH	TEETH	PART NO.	COLOR	45 MPH			60 MPH	45 MPH		60 MPH	
			45 MPH	60 MPH															
8 CYLINDER 3 SPEED AUTOMATIC TRANSMISSION	2.56 (41:16)	205R-14	778.0	777.1	33.22	33.18	8623313 (28 PITCH)	18	35	9780387	ORANGE	397807	NONE	1.9936	1.9913	1.9444	+ 2.52	+ 2.41	
		F70-14	797.4	793.6	34.05	33.89			36	1359270	WHITE	397807	NONE	2.0433	2.0336	2.0000	+ 2.16	+ 1.68	
		7.75-14	782.0	777.3	33.39	33.19			35	9780387	ORANGE	397807	NONE	2.0038	1.9918	1.9444	+ 3.05	+ 2.43	
		7.75-15	750.0	747.0	32.03	31.90			34	9774413	LT. GREEN	397807	NONE	1.9218	1.9141	1.8888	+ 1.74	+ 1.33	
	2.73 (41:15)	205R-14	778.0	777.1	35.44	35.40	8623313	18	38	1359272	BLUE	397807	NONE	2.1265	2.1240	2.1111	+ 0.73	+ 0.61	
		F70-14	797.4	793.6	36.32	36.15			38	1359272	BLUE	397807	NONE	2.1795	2.1691	2.1111	+ 3.24	+ 2.75	
		7.75-14	782.0	777.3	35.62	35.41			38	1359272	BLUE	397807	NONE	2.1374	2.1246	2.1111	+ 1.24	+ 0.63	
		7.75-15	750.0	747.0	34.16	34.03			36	1359270	WHITE	397807	NONE	2.0500	2.0418	2.0000	+ 2.50	+ 2.09	
	3.07 (43:14)	205R-14	778.0	777.1	39.82	39.78	8623313	18	42	1362049	GREEN	397806	NONE	2.3895	2.3868	2.3333	+ 2.41	+ 2.29	
		F70-14	797.4	793.6	40.81	40.62			43	1362196	PURPLE	397806	NONE	2.4491	2.4374	2.3888	+ 2.52	+ 2.03	
		7.75-14	782.0	777.3	40.03	39.79			43	1362196	PURPLE	397806	NONE	2.4018	2.3874	2.3888	+ 0.54	- 0.06	
		7.75-15	750.0	747.0	38.39	38.23			41	1362195	YELLOW	397806	NONE	2.3035	2.2943	2.2777	+ 1.13	+ 0.72	
	3.31 (43:13)	205R-14	778.0	777.1	42.88	42.84	8623313	18	45	9775187	LT. BLUE	397806	NONE	2.5733	2.5704	2.5000	+ 2.93	+ 2.81	
		F70-14	797.4	793.6	43.95	43.74			34	9774413	LT. GREEN	397807	.7333	2.6375	2.6249	1.8888	+ 2.39	+ 1.90	
		7.75-14	782.0	777.3	43.11	42.85			40	1362048	BLACK	397806	.8653	2.5866	2.5710	2.2222	+ 0.71	+ 0.11	
		7.75-15	750.0	747.0	41.34	41.18			44	9780470	DK. GRAY	397806	NONE	2.4807	2.4708	2.4444	+ 1.48	+ 1.08	
	3.42 (41:12)	205R-14	778.0	777.1	44.30	44.25	8623313	18	36	1359270	WHITE	397807	.7692	2.6581	2.6550	2.0000	+ 2.23	+ 2.11	
		F70-14	797.4	793.6	45.40	45.19			37	1359271	RED	397807	.7692	2.7244	2.7114	2.0555	+ 1.95	+ 1.46	
		7.75-14	782.0	777.3	44.53	44.26			41	1362195	YELLOW	397806	.8653	2.6718	2.6557	2.2777	+ 1.49	+ 0.88	
		7.75-15	750.0	747.0	42.70	42.53			45	9775187	LT. BLUE	397806	NONE	2.5625	2.5222	2.5000	+ 2.50	+ 2.09	

NOTE: DATA FOR 7.75 X 14 SIZE APPLIES TO STANDARD, EXPORT AND 8 PLY TIRES.

REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE.

- .7333 - ADAPTER 535614 (RED)
- .7692 - ADAPTER 535615 (YELLOW)
- .8653 - ADAPTER 535617 (BLUE)

CHART FOR GROUP 96C
CANADIAN BUILT F-85 MODELS.

SHEET 4

										TITLE CHART - SPEEDOMETER GEAR USAGE											
										DATE APRIL 13, 1967					FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL			MANUAL SEC. PAGE	
										DR. BY G. W. BURRIS					1968		7			99	
										CHECKED W. L. WEISS: 4/17					REF.		SERIES			PART NO.	
										APPR.							A			401295	
										APPR.											
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.		

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

G. BARONAL, INC. 1967

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 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	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	SERIES	PART NO.
10/1/67	P	W30 REMOVED	KL	JA	7-31-67	K	WAS 18 TOOTH	GB	PM	7-3-67	E	WAS 9777226	GB	PM	3-10-67	D	NOTE REVISED	GB	PM	3-10-67	1968	7	100	ABCE	400752		
10/1/67	N	W30 ADDED	KL	JA	7-17-67	H	LG5 REMOVED	GB	PM	5-29-67	D	NOTE REVISED	GB	PM	3-10-67	C	4800 REMOVED	GB	PM	3-10-67							
9/29/67	M	8626134 ADDED	KL	JA	7-17-67	G	WAS GROUP 7B3	GB	PM	4-14-67	B	WAS M33	GB	PM	3-10-67	A	CODES ADDED	GB	PM	3-10-67							
8/25/67	L	9860 SERIES ADDED	KL	JA	7-17-67	F	WAS 9781076	GB	PM	4-14-67	A	CODES ADDED	GB	PM	3-10-67	A	CODES ADDED	GB	PM	3-10-67							

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

TRANSMISSION TYPE	AXLE RATIO	REAR TIRES				N/V		SPEEDO DRIVE GEAR		SPEEDO DRIVEN GEAR			DESIRED RATIO		DRIVE RATIO	% ERROR		
		SIZE	#		45 MPH	60 MPH	PART NO.	TEETH	TEETH	PART NO.	COLOR	ADAPTER RATIO	45 MPH	60 MPH		45 MPH	60 MPH	
			45 MPH	60 MPH														
3 SPEED FULLY SYNCHRONIZED	2.78 (39:14)	205R-14	778.0	777.1	36.12	36.07	3915003	8	17	3870351	PURPLE	NONE	2.1672	2.1647	2.1250	+ 1.98	+ 1.87	
		F70-14	797.4	793.6	37.02	36.84	(28 PITCH)		21	3860344	RED	1.2020	2.2213	2.2107	2.6250	+ 1.71	+ 1.23	
		7.75-14	782.0	777.3	36.30	36.08			17	3870351	PURPLE	NONE	2.1784	2.1653	2.1250	+ 2.51	+ 1.89	
		7.75-15	750.0	747.0	34.82	34.68			20	3860343	BLUE	1.2020	2.0892	2.0809	2.5000	+ 0.45	+ 0.05	
	3.08 (40:13)	205R-14	778.0	777.1	39.89	39.85	3915003	8	19	3860342	NATURAL	NONE	2.3938	2.3910	2.3750	+ 0.79	+ 0.67	
		F70-14	797.4	793.6	40.89	40.69	9777230 ##		19	3860342	NATURAL	NONE	2.4535	2.4418	2.3750	+ 3.30	+ 2.81	
		7.75-14	782.0	777.3	40.10	39.86			19	3860342	NATURAL	NONE	2.4061	2.3916	2.3750	+ 1.31	+ 0.70	
		7.75-15	750.0	747.0	38.46	38.30			18	3860341	BROWN	NONE	2.3076	2.2984	2.2500	+ 2.56	+ 2.15	
	3.23 (42:13)	205R-14	778.0	777.1	41.89	41.84	3915003	8	20	3860343	BLUE	NONE	2.5135	2.5106	2.5000	+ 0.54	+ 0.42	
		F70-14	797.4	793.6	42.93	42.73	9777230 ##		20	3860343	BLUE	NONE	2.5762	2.5639	2.5000	+ 3.04	+ 2.55	
		7.75-14	782.0	777.3	42.10	41.85			20	3860343	BLUE	NONE	2.5264	2.5112	2.5000	+ 1.05	+ 0.45	
		7.75-15	750.0	747.0	40.38	40.22			19	3860342	NATURAL	NONE	2.4230	2.4133	2.3750	+ 2.02	+ 1.61	
		8.25-14	764.4	759.2	41.16	40.88			17	3870351	PURPLE	.8653	2.4696	2.4528	2.1250	+ 0.56	- 0.12	
	3.42 (41:12)	205R-14	778.0	777.1	44.30	44.25	3915003	8	21	3860344	RED	NONE	2.6581	2.6550	2.6250	+ 1.26	+ 1.14	
		F70-14	797.4	793.6	45.40	45.19	9777230 ##		21	3860344	RED	NONE	2.7244	2.7114	2.6250	+ 3.78	+ 3.29	
		7.75-14	782.0	777.3	44.53	44.26			21	3860344	RED	NONE	2.6718	2.6557	2.6250	+ 1.78	+ 1.17	
		7.75-15	750.0	747.0	42.70	42.53			20	3860343	BLUE	NONE	2.5625	2.5522	2.5000	+ 2.50	+ 2.09	
	3.91 (43:11)	205R-14	778.0	777.1	50.68	50.62	3915003	8	21	3860344	RED	.8653	3.0412	3.0377	2.6250	+ 0.25	+ 0.13	
		F70-14	797.4	793.6	51.95	51.70	9777230 ##		21	3860344	RED	.8653	3.1171	3.1022	2.6250	+ 2.75	+ 2.26	
		7.75-14	782.0	777.3	50.94	50.64			21	3860344	RED	.8653	3.0569	3.0385	2.6250	+ 0.76	+ 0.16	
		7.75-15	750.0	747.0	48.86	48.66			20	3860343	BLUE	.8653	2.9318	2.9200	2.5000	+ 1.47	+ 1.07	
	4.33 (39:9)	205R-14	778.0	777.1	56.18	56.12	3915003	8	19	3860342	NATURAL	.7222	3.3713	3.3674	2.3750	+ 2.51	+ 2.39	
		F70-14	797.4	793.6	57.59	57.31	9777230 ##		20	3860343	BLUE	.7333	3.4554	3.4389	2.5000	+ 1.35	+ 0.87	
		7.75-14	782.0	777.3	56.47	56.13			19	3860342	NATURAL	.7222	3.3886	3.3683	2.3750	+ 3.04	+ 2.42	
		7.75-15	750.0	747.0	54.16	53.95			19	3860342	NATURAL	.7222	3.2500	3.2370	2.3750	+ 0.34	- 0.05	
	(K) DEALER INSTALLED	4.66 (42:9)	205R-14	778.0	777.1	60.51	60.44	3915003	8	21	3860344	RED	.7333	3.6306	3.6264	2.6250	+ 1.42	+ 1.30
			F70-14	797.4	793.6	62.02	61.72	9777230 ##		18	3860341	BROWN	.6190	3.7212	3.7034	2.2500	+ 2.37	+ 1.88
			7.75-14	782.0	777.3	60.82	60.45			21	3860344	RED	.7333	3.6493	3.6274	2.6250	+ 1.94	+ 1.33
7.75-15			750.0	747.0	58.33	58.10			17	3870351	PURPLE	.6190	3.5000	3.4860	2.1250	+ 1.95	+ 1.54	

NOTE: DATA FOR 7.75-14 AND 8.25-14 SIZE APPLIES TO STANDARD, EXPORT AND 8 PLY TIRES.

REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE.

WITH 9777226 TRANSMISSION.

- .6190 - ADAPTER 540180 (ORANGE)
- .7222 - ADAPTER 540183 (LT. BLUE)
- .7333 - ADAPTER 535614 (RED)
- .8653 - ADAPTER 535617 (BLUE)
- 1.2020 - ADAPTER 9775739 (BLACK & WHITE)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
		22348 K DEALER INSTALL COL. REV	BS	JA	5-3-67	E	WAS 2.36	BS	JA				BS	JA	
		0667 J REVISED	BS	JA	5-3-67	D	WAS 3.0000	BS	JA				BS	JA	
		8-3-67 H LINE ADDED	BS	JA	5-3-67	C	WAS NONE	BS	JA				BS	JA	
		52867 G REVISED	BS	JA	4-19-67	B	REVISED	BS	JA				BS	JA	
		5367 F WAS 1.51	BS	JA	3-3-67	A	COLUMN WAS 370344	BS	JA				BS	JA	

TITLE		CHART - SPEEDOMETER GEAR USAGE	
DATE	FEB. 2, 1967	FIRST USED	1968
DR. BY	D. R. FORNER	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 7
CHECKED	DON MALKIN	SERIES	A
APPR.	H. J. B. PAGE	PART NO.	400264
DATE		PAGE	105

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

B. SANDALL, INC. 4877

TRANSMISSION TYPE	AXLE RATIO	REAR TIRES				N/V		SPEEDO DRIVE GEAR		SPEEDO DRIVEN GEAR			DESIRED RATIO		DRIVE RATIO	% ERROR		
		SIZE	#		45 MPH	60 MPH	PART NO.	TEETH	TEETH	PART NO.	COLOR	ADAPTER RATIO	45 MPH	60 MPH		45 MPH	60 MPH	
			45 MPH	60 MPH														
4 SPEED FULLY SYNCHRONIZED (WIDE RATIO) M-20 (CLOSE RATIO) M-21	3.08 (40 : 13)	205R-14	778.0	777.1	39.89	39.85	3915004 (30 PITCH)	8	24	3860347	YELLOW	1.2720	2.3938	2.3910	3.0000	+ 1.49	+ 1.38	
		F70-14	797.4	793.6	40.89	49.69			22	3860345	GREEN		1.1320	2.4535	2.4418	2.7500	+ 0.99	+ 0.51
		7.75-14	782.0	777.3	40.10	39.86			24	3860347	YELLOW		1.2720	2.4061	2.3916	3.0000	+ 2.02	+ 1.40
		7.75-15	750.0	747.0	38.46	38.30			23	3860346	BLACK		1.2720	2.3076	2.2984	2.8750	+ 2.10	+ 1.69
	3.23 (42 : 13)	205R-14	778.0	777.1	41.89	41.84	3915004	8	25	3860348	ORANGE	1.2720	2.5135	2.5106	3.1250	+ 2.31	+ 2.19	
		F70-14	797.4	793.6	42.93	42.73			23	3860346	BLACK		1.1320	2.5762	2.5639	2.8750	+ 1.43	+ 0.95
		7.75-14	782.0	777.3	42.10	41.85			25	3860348	ORANGE		1.2720	2.5264	2.5112	3.1250	+ 2.83	+ 2.21
		7.75-15	750.0	747.0	40.38	40.22			24	3860347	YELLOW		1.2720	2.4230	2.4133	3.0000	+ 2.73	+ 2.32
		8.25-14	764.4	759.2	41.16	40.88			22	3860345	GREEN		1.1320	2.4696	2.4528	2.7500	+ 1.65	+ 0.96
	3.42 (41 : 12)	205R-14	778.0	777.1	44.30	44.25	3915004	8	24	3860347	YELLOW	1.1320	2.6581	2.6550	3.0000	+ 0.30	+ 0.18	
		F70-14	797.4	793.6	45.40	45.19			24	3860347	YELLOW		1.1320	2.7244	2.7114	3.0000	+ 2.80	+ 2.31
		7.75-14	782.0	777.3	44.53	44.26			24	3860347	YELLOW		1.1320	2.6718	2.6557	3.0000	+ 0.81	+ 0.21
		7.75-15	750.0	747.0	42.70	42.53			23	3860346	BLACK		1.1320	2.5625	2.5522	2.8750	+ 0.89	+ 0.49
	3.91 (43 : 11)	205R-14	778.0	777.1	50.68	50.62	3915004	8	24	3860347	YELLOW	NONE	3.0412	3.0377	3.0000	+ 1.37	+ 1.25	
		F70-14	797.4	793.6	51.95	51.70			25	3860348	ORANGE		NONE	3.1171	3.1022	3.1250	- 0.25	- 0.72
		7.75-14	782.0	777.3	50.94	50.64			24	3860347	YELLOW		NONE	3.0569	3.0385	3.0000	+ 1.89	+ 1.28
		7.75-15	750.0	747.0	48.86	48.66			23	3860346	BLACK		NONE	2.9318	2.9200	2.8750	+ 1.97	+ 1.56
	4.33 (39 : 9)	205R-14	778.0	777.1	56.18	56.12	3915004	8	23	3860346	BLACK	.8660	3.3713	3.3674	2.8750	+ 1.55	+ 1.43	
		F70-14	797.4	793.6	57.59	57.31			24	3860347	YELLOW		.8660	3.4554	3.4389	3.0000	- 0.25	- 0.72
		7.75-14	782.0	777.3	56.47	56.13			23	3860346	BLACK		.8660	3.3886	3.3683	2.8750	+ 2.07	+ 1.45
7.75-15		750.0	747.0	54.16	53.95	22			3860345	GREEN	.8660		3.2500	3.2370	2.7500	+ 2.34	+ 1.93	
4.66 (42 : 9)	205R-14	778.0	777.1	60.51	60.44	3915004	8	25	3860348	ORANGE	.8660	3.6306	3.6264	3.1250	+ 0.61	+ 0.49		
	F70-14	797.4	793.6	62.02	61.72			25	3860348	ORANGE		.8660	3.7212	3.7034	3.1250	+ 3.12	+ 2.63	
	7.75-14	782.0	777.3	60.82	60.45			25	3860348	ORANGE		.8660	3.6493	3.6274	3.1250	+ 1.13	+ 0.52	
	7.75-15	750.0	747.0	58.33	58.10			24	3860347	YELLOW		.8660	3.5000	3.4860	3.0000	+ 1.03	+ 0.62	

NOTE: DATA FOR 7.75-14 AND 8.25-14 SIZE APPLIES TO STANDARD, EXPORT AND 8 PLY TIRES.

REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE.

USE RIGHT ANGLE SPEEDOMETER DRIVE ADAPTERS ONLY.

.8660 - ADAPTER 395430 (BLUE)

1.1320 - ADAPTER 395431 (NO COLOR)

1.2720 - ADAPTER 401539 (GREEN)

SHEET 2

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	CHART-SPEEDOMETER GEAR USAGE				
																						FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
																						1968		7	106
																						REF.	SERIES	PART NO.	
																						A	400264		

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

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TRANSMISSION TYPE	AXLE RATIO	REAR TIRES			N/V		SPEEDO DRIVE GEAR		SPEEDO DRIVEN GEAR			SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY PART NO.	ADAPTER RATIO	DESIRED RATIO		DRIVE RATIO	% ERROR	
		SIZE	#		45 MPH	60 MPH	PART NO.	TEETH	TEETH	PART NO.	COLOR			45 MPH	60 MPH		45 MPH	60 MPH
			45 MPH	60 MPH														
6 & 8 CYLINDER JETAWAY TRANSMISSION	2.56 (41:16)	205R-14	778.0	777.1	33.22	33.18	1371878 (28 PITCH)	17	37	1359271	RED	396793	1.1250	1.9936	1.9913	2.1764	+ 3.04	+ 2.92
		F70-14	797.4	793.6	34.05	33.89			34	9774413	LT. GREEN	396793	NONE	2.0433	2.0336	2.0000	+ 2.16	+ 1.68
		7.75-14	782.0	777.3	33.39	33.19			34	9774413	LT. GREEN	396793	NONE	2.0038	1.9918	2.0000	+ 0.19	- 0.40
		7.75-15	750.0	747.0	32.03	31.90			36	1359270	WHITE	396793	1.1250	1.9218	1.9141	2.1176	+ 2.09	+ 1.69
	2.78 (39:14)	205R-14	778.0	777.1	36.12	36.07	1371878	17	36	1359270	WHITE	396793	NONE	2.1672	2.1647	2.1176	+ 2.34	+ 2.22
		F70-14	797.4	793.6	37.02	36.84			37	1359271	RED	396793	NONE	2.2213	2.2107	2.1764	+ 2.06	+ 1.57
		7.75-14	782.0	777.3	36.30	36.08			36	1359270	WHITE	396793	NONE	2.1784	2.1653	2.1176	+ 2.87	+ 2.25
		7.75-15	750.0	747.0	34.82	34.68			35	9780387	ORANGE	396793	NONE	2.0892	2.0809	2.0588	+ 1.47	+ 1.07
	3.08 (40:13)	205R-14	778.0	777.1	39.89	39.85	1371878	17	40	1362048	BLACK	396794	NONE	2.3938	2.3910	2.3529	+ 1.73	+ 1.62
		F70-14	797.4	793.6	40.89	40.69			41	1362195	YELLOW	396794	NONE	2.4535	2.4418	2.4117	+ 1.73	+ 1.24
		7.75-14	782.0	777.3	40.10	39.86			40	1362048	BLACK	396794	NONE	2.4061	2.3916	2.3529	+ 2.26	+ 1.64
		7.75-15	750.0	747.0	38.46	38.30			38	1359272	BLUE	396793	NONE	2.3076	2.2984	2.2352	+ 3.23	+ 2.82
		8.25-14	764.4	759.2	39.19	38.93			39	1359273	BROWN	396793	NONE	2.3519	2.3359	2.2941	+ 2.52	+ 1.82
	3.23 (42:13)	205R-14	778.0	777.1	41.89	41.84	1371878	17	42	1362049	GREEN	396794	NONE	2.5135	2.5106	2.4705	+ 1.73	+ 1.62
		F70-14	797.4	793.6	42.93	42.73			43	1362196	PURPLE	396794	NONE	2.5762	2.5639	2.5294	+ 1.85	+ 1.36
		7.75-14	782.0	777.3	42.10	41.85			42	1362049	GREEN	396794	NONE	2.5264	2.5112	2.4705	+ 2.26	+ 1.64
		7.75-15	750.0	747.0	40.38	40.22			40	1362048	BLACK	396794	NONE	2.4230	2.4133	2.3529	+ 2.98	+ 2.56
	3.42 (41:12)	205R-14	778.0	777.1	44.30	44.25	1371878	17	44	9780470	DK. GRAY	396794	NONE	2.6581	2.6550	2.5882	+ 2.70	+ 2.58
		F70-14	797.4	793.6	45.40	45.19			45	9775187	LT. BLUE	396794	NONE	2.7244	2.7114	2.6470	+ 2.92	+ 2.43
		7.75-14	782.0	777.3	44.53	44.26			45	9775187	LT. BLUE	396794	NONE	2.6718	2.6557	2.6470	+ 0.93	+ 0.32
		7.75-15	750.0	747.0	42.70	42.53			43	1362196	PURPLE	396794	NONE	2.5625	2.5522	2.5294	+ 1.30	+ 0.90
	3.91 (43:11)	205R-14	778.0	777.1	50.68	50.62	1371878	17	39	1359273	BROWN	396793	.7692	3.0412	3.0377	2.2941	+ 1.97	+ 1.85
		F70-14	797.4	793.6	51.95	51.70			40	1362048	BLACK	396794	.7692	3.1171	3.1022	2.3529	+ 1.90	+ 1.41
		7.75-14	782.0	777.3	50.94	50.64			39	1359273	BROWN	396793	.7692	3.0569	3.0385	2.2941	+ 2.49	+ 1.87
7.75-15		750.0	747.0	48.86	48.66	34			9774413	LT. GREEN	396793	.6944	2.9318	2.9000	2.0000	+ 1.79	+ 1.38	
4.33 (39:9)	205R-14	778.0	777.1	56.18	56.12	1371878	17	39	1359273	BROWN	396793	.6944	3.3713	3.3674	2.2941	+ 2.04	+ 1.92	
	F70-14	797.4	793.6	57.59	57.31			40	1362048	BLACK	396794	.6944	4.4554	3.4389	2.3529	+ 1.97	+ 1.48	
	7.75-14	782.0	773.3	56.47	56.13			35	9780387	ORANGE	396793	.6190	3.3886	3.3683	2.0588	+ 1.88	+ 1.27	
	7.75-15	750.0	747.0	54.16	53.95			40	1362048	BLACK	396794	.7333	3.2500	3.2370	2.3529	+ 1.28	+ 0.88	
4.66 (42:9)	205R-14	778.0	777.1	60.51	60.44	1371878	17	42	1362049	GREEN	396794	.6944	3.6306	3.6264	2.4705	+ 2.04	+ 1.92	
	F70-14	797.4	793.6	62.02	61.72			43	1362196	PURPLE	396794	.6944	3.7212	3.7034	2.5294	+ 2.15	+ 1.67	
	7.75-14	782.0	777.3	60.82	60.45			45	9775187	LT. BLUE	396794	.7333	3.6493	3.6274	2.6470	+ 1.09	+ 0.48	
	7.75-15	750.0	747.0	58.33	58.10			45	9775187	LT. BLUE	396794	.7692	3.5000	3.4860	2.6470	+ 1.70	+ 1.29	

REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE.

NOTE: DATA FOR 7.75-14 AND 8.25-14 SIZE APPLIES TO STANDARD, EXPORT AND 8 PLY TIRES.

SHEET 3

- .6190 - ADAPTER 540180 (ORANGE)
- .6944 - ADAPTER 535613 (GRAY)
- .7333 - ADAPTER 535614 (RED)
- .7692 - ADAPTER 535615 (YELLOW)
- 1.1250 - ADAPTER 540474 (NO COLOR)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
											CHART - SPEEDOMETER GEAR USAGE	1968		7	107
											DATE FEB. 2, 1967				
											DR. BY K. LOVELL				
											CHECKED DON WALKIN				
											APPR. H. T. G. PAGE				
													SERIES A	PART NO. 400264	

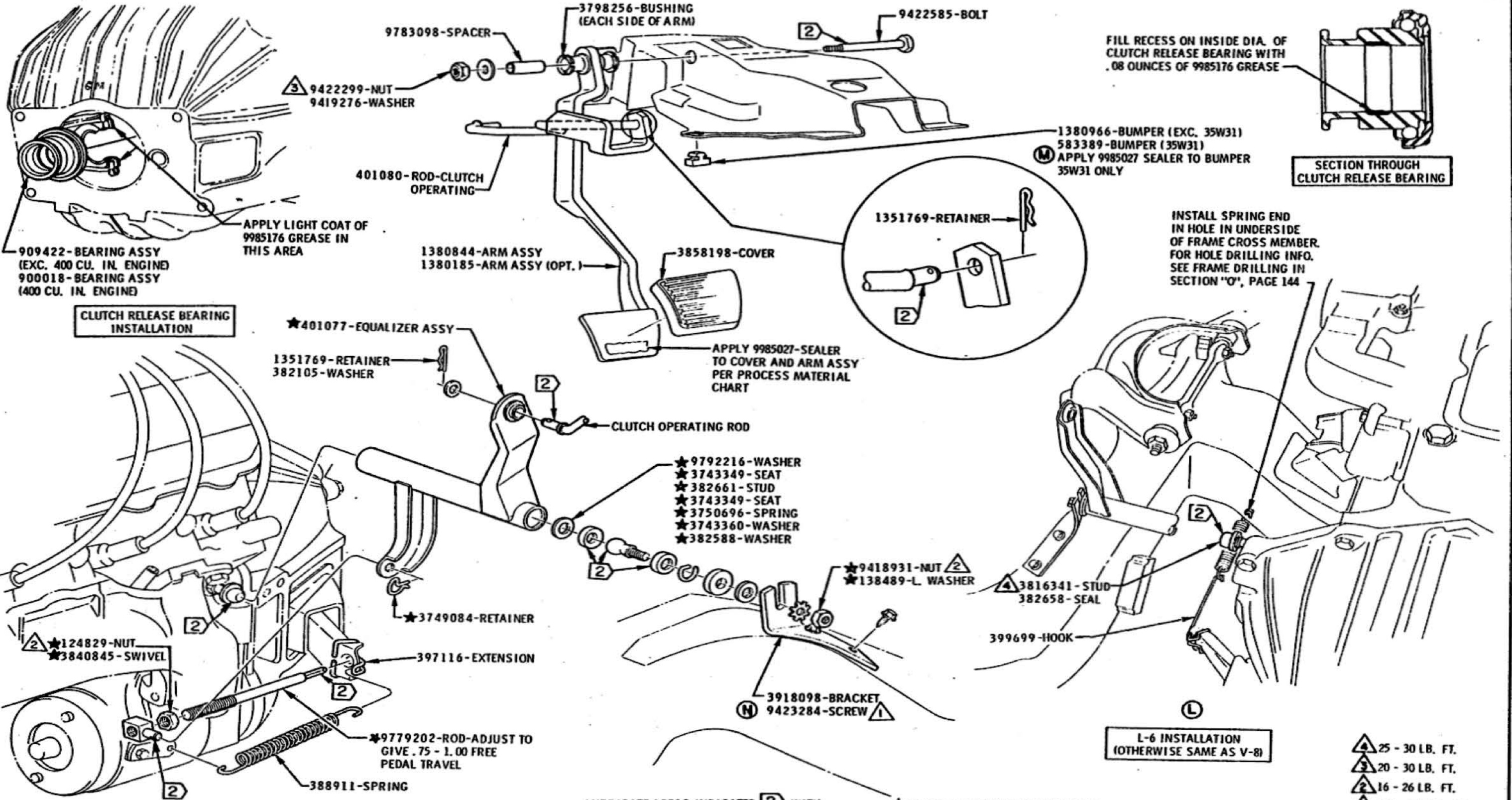
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

TRANSMISSION TYPE	AXLE RATIO	REAR TIRES				N/V		SPEEDO DRIVE GEAR		SPEEDO DRIVEN GEAR			SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY PART NO.	ADAPTER RATIO	DESIRED RATIO		DRIVE RATIO	% ERROR	
		SIZE	#		45 MPH	60 MPH	PART NO.	TEETH	TEETH	PART NO.	COLOR	45 MPH			60 MPH	45 MPH		60 MPH	
			45 MPH	60 MPH															
8 CYLINDER 3 SPEED AUTOMATIC TRANSMISSION	2.56 (41:16)	205R-14	778.0	777.1	33.22	33.18	8623313 (28 PITCH)	18	35	9780387	ORANGE	397807	NONE	1.9936	1.9913	1.9444	+ 2.52	+ 2.41	
		F70-14	797.4	793.6	34.05	33.89		36	1359270	WHITE	397807	NONE	2.0433	2.0336	2.0000	+ 2.16	+ 1.68		
		7.75-14	782.0	777.3	33.39	33.19		35	9780387	ORANGE	397807	NONE	2.0038	1.9918	1.9444	+ 3.05	+ 2.43		
		7.75-15	750.0	747.0	32.03	31.90		34	9774413	LT. GREEN	397807	NONE	1.9218	1.9141	1.8888	+ 1.74	+ 1.33		
	2.78 (39:14)	205R-14	778.0	777.1	36.12	36.07	8623313	18	38	1359272	BLUE	397807	NONE	2.1672	2.1647	2.1111	+ 2.66	+ 2.54	
		F70-14	797.4	793.6	37.02	36.84		39	1359273	BROWN	397807	NONE	2.2213	2.2107	2.1666	+ 2.52	+ 2.03		
		7.75-14	782.0	777.3	36.30	36.08		39	1359273	BROWN	397807	NONE	2.1784	2.1653	2.1666	+ 0.54	- 0.06		
		7.75-15	750.0	747.0	34.82	34.68		37	1359271	RED	397807	NONE	2.0892	2.0809	2.0555	+ 1.64	+ 1.23		
	3.08 (40:13)	205R-14	778.0	777.1	39.89	39.85	8623313	18	42	1362049	GREEN	397806	NONE	2.3938	2.3910	2.3333	+ 2.59	+ 2.47	
		F70-14	797.4	793.6	40.89	40.69		43	1362196	PURPLE	397806	NONE	2.4535	2.4418	2.3888	+ 2.70	+ 2.21		
		7.75-14	782.0	777.3	40.10	39.86		43	1362196	PURPLE	397806	NONE	2.4061	2.3916	2.3888	+ 0.72	+ 0.11		
		7.75-15	750.0	747.0	38.46	38.30		41	1362195	YELLOW	397806	NONE	2.3076	2.2984	2.2777	+ 1.31	+ 0.90		
	3.23 (42:13)	205R-14	778.0	777.1	41.89	41.84	8623313	18	44	9780470	DK. GRAY	397806	NONE	2.5135	2.5106	2.4444	+ 2.82	+ 2.70	
		F70-14	797.4	793.6	40.89	40.69		45	9775187	LT. BLUE	397806	NONE	2.5762	2.5639	2.5000	+ 3.04	+ 2.55		
		7.75-14	782.0	777.3	42.10	41.85		45	9775187	LT. BLUE	397806	NONE	2.5264	2.5112	2.5000	+ 1.05	+ 0.45		
		7.75-15	750.0	747.0	40.38	40.22		43	1362196	PURPLE	397806	NONE	2.4230	2.4133	2.3888	+ 1.43	+ 1.02		
	3.42 (41:12)	205R-14	778.0	777.1	44.30	44.25	8623313	18	36	1359270	WHITE	397807	.7692	2.6581	2.6550	2.0000	+ 2.23	+ 2.11	
		F70-14	797.4	793.6	45.40	45.19		37	1359271	RED	397807	.7692	2.7244	2.7114	2.0555	+ 1.95	+ 1.46		
		7.75-14	782.0	777.3	44.53	44.26		36	1359270	WHITE	397807	.7692	2.6718	2.6557	2.0000	+ 2.75	+ 2.14		
		7.75-15	750.0	747.0	42.70	42.53		45	9775187	LT. BLUE	397806	NONE	2.5625	2.5522	2.5000	+ 2.50	+ 2.09		
	3.91 (43:11)	205R-14	778.0	777.1	50.68	50.62	8623313	18	41	1362195	YELLOW	397806	.7692	3.0412	3.0377	2.2777	+ 2.70	+ 2.58	
		F70-14	797.4	793.6	51.95	51.70		34	9774413	LT. GREEN	397807	.6190	3.1171	3.1022	1.8888	+ 2.14	+ 1.66		
		7.75-14	782.0	777.3	50.94	50.64		40	1362048	BLACK	397806	.7333	3.0569	3.0385	2.2222	+ 0.87	+ 0.26		
		7.75-15	750.0	747.0	48.86	48.66		38	1359272	BLUE	397807	.7333	2.9318	2.9200	2.1111	+ 1.83	+ 1.43		
	4.33 (39:9)	205R-14	778.0	777.1	56.18	56.12	8623313	18	37	1359271	RED	397807	.6190	3.3713	3.3674	2.0555	+ 1.52	+ 1.40	
		F70-14	797.4	793.6	57.59	57.31		45	9775187	LT. BLUE	397806	.7333	3.4554	3.4389	2.5000	+ 1.35	+ 0.87		
		7.75-14	782.0	777.3	56.47	56.13		37	1359271	RED	397807	.6190	3.3886	3.3683	2.0555	+ 2.04	+ 1.43		
		7.75-15	750.0	747.0	54.16	53.95		42	1362049	GREEN	397806	.7333	3.2500	3.2370	2.3333	+ 2.13	+ 1.72		
DEALER INSTALLED 4.66 (42:9)	205R-14	778.0	777.1	60.51	60.44	8623313	18	40	1362048	BLACK	397806	.6190	3.6306	3.6264	2.2222	+ 1.13	+ 1.01		
	F70-14	797.4	793.6	62.02	61.72		41	1362195	YELLOW	397806	.6190	3.7212	3.7034	2.2777	+ 1.12	+ 0.64			
	7.75-14	782.0	777.3	60.82	60.45		40	1362048	BLACK	397806	.6190	3.6493	3.6274	2.2222	+ 1.65	+ 1.04			
	7.75-15	750.0	747.0	58.33	58.10		43	1362196	PURPLE	397806	.6944	3.5000	3.4860	2.3888	+ 1.73	+ 1.33			

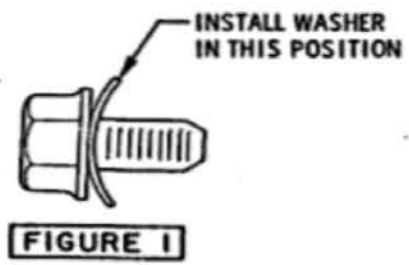
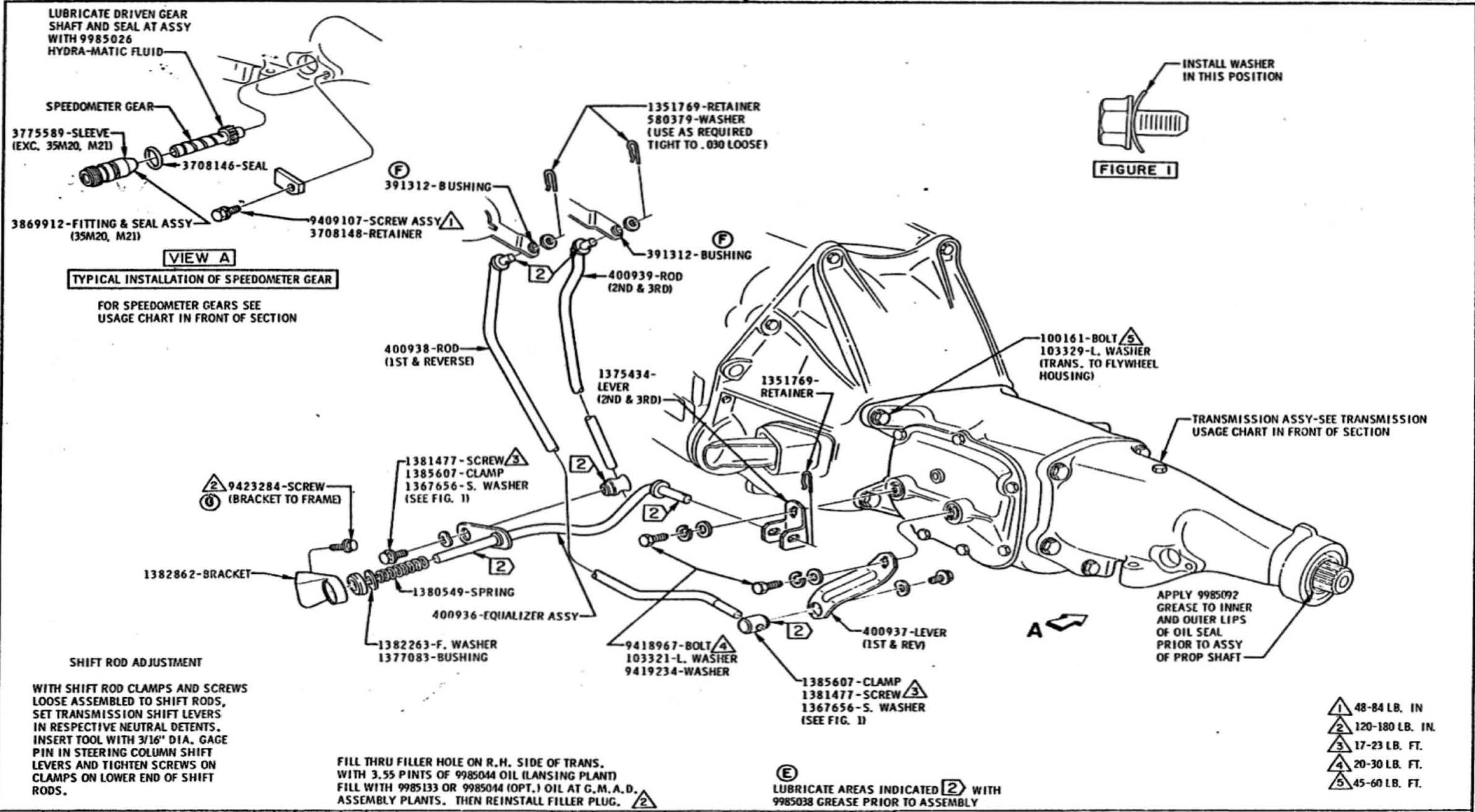
* REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE. NOTE: DATA FOR 7.75-14 AND 8.25-14 SIZE APPLIES TO STANDARD, EXPORT AND 8 PLY TIRES.

- .6190 - ADAPTER 540180 (ORANGE)
- .6944 - ADAPTER 535613 (GRAY)
- .7333 - ADAPTER 535614 (RED)
- .7692 - ADAPTER 535615 (YELLOW)

DATE				SYM				REVISION				DR. CK.		DATE		SYM		REVISION		DR. CK.		APPR.	
TITLE: CHART - SPEEDOMETER GEAR USAGE DATE: FEB. 6, 1967 DR. BY: J. HACKETT CHECKED: DON MALKIN APPR. H.T.																							
FIRST USED												1968											
OLDSMOBILE PRODUCT INFORMATION MANUAL												SERIES A											
MANUAL SECTION 7												PAGE 108											
PART NO. 400264																							



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
					1-3-68	K	NOTE REVISED			5-15-67	E	NOTE ADDED				CLUTCH CONTROL				
					12-8-67	J	WAS 9419234			4-25-67	D	WAS 9420421				DATE DECEMBER 15, 1966	FIRST USED 1968		7	110
4-1-68	N	WAS 9419402-SCREW			9-1-67	H	NOTE REVISED			4-12-67	C	WAS 1382220				DR. BY H.E. MASON				
3-4-68	M	PART NO. ADDED			8-10-67	G ₂	VIEW ADDED			4-12-67	B	WAS 396579				CHECKED BY [Signature]				
1-3-68	L	VIEW REVISED			6-13-67	F	401488 ADDED			3-15-67	A	VIEW ADDED				APPR. F. ROLANDOWSKI				
																REF. 791 B				
																		SERIES A	PART NO. 398162	



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
					9-1-67	E	NOTE REVISED								
					7-31-67	D	NOTE REVISED								
					7-27-67	C	HAS 1367697-CLAMP								
					4-1-68	G	HAS 9419402-SCREW								
					11-10-67	F	BUSHING ADDED								
					4-4-67	A	REDRAWN & REVISED								

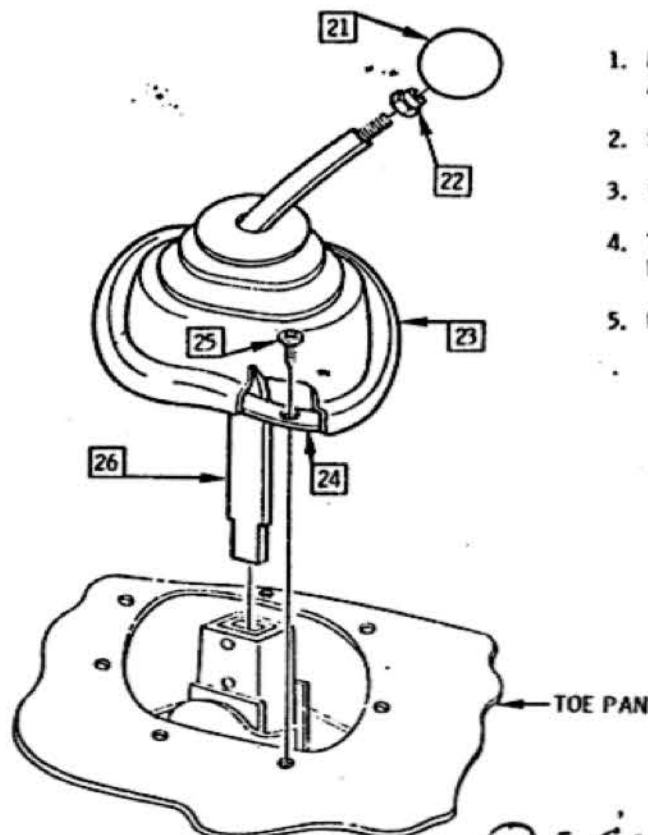
TITLE		FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
SYNCHROMESH COLUMN SHIFT CONTROL		1968		7	115
DR. BY W.E. MASON	CHECKED M.P. [Signature]	REF. 7A	12J	SERIES A	PART NO. 398162

SHIFT CONTROL LINKAGE ADJUSTMENTS

1. MOUNT SHIFTER UNIT VERTICALLY IN CAR (UNIT PIVOTS ABOUT 9421348 BOLT AND IS SECURED BY 9418921 BOLT).
2. SET TRANS. SHIFT LEVERS IN RESPECTIVE NEUTRAL DETENTS.
3. INSTALL .250 DIA. ROD IN BASE OF SHIFTER ASSEMBLY.
4. TIGHTEN SCREWS ON CLAMPS ON LOWER END OF SHIFT RODS TO SPECIFIED TORQUE.
5. REMOVE .250 DIA. ROD.

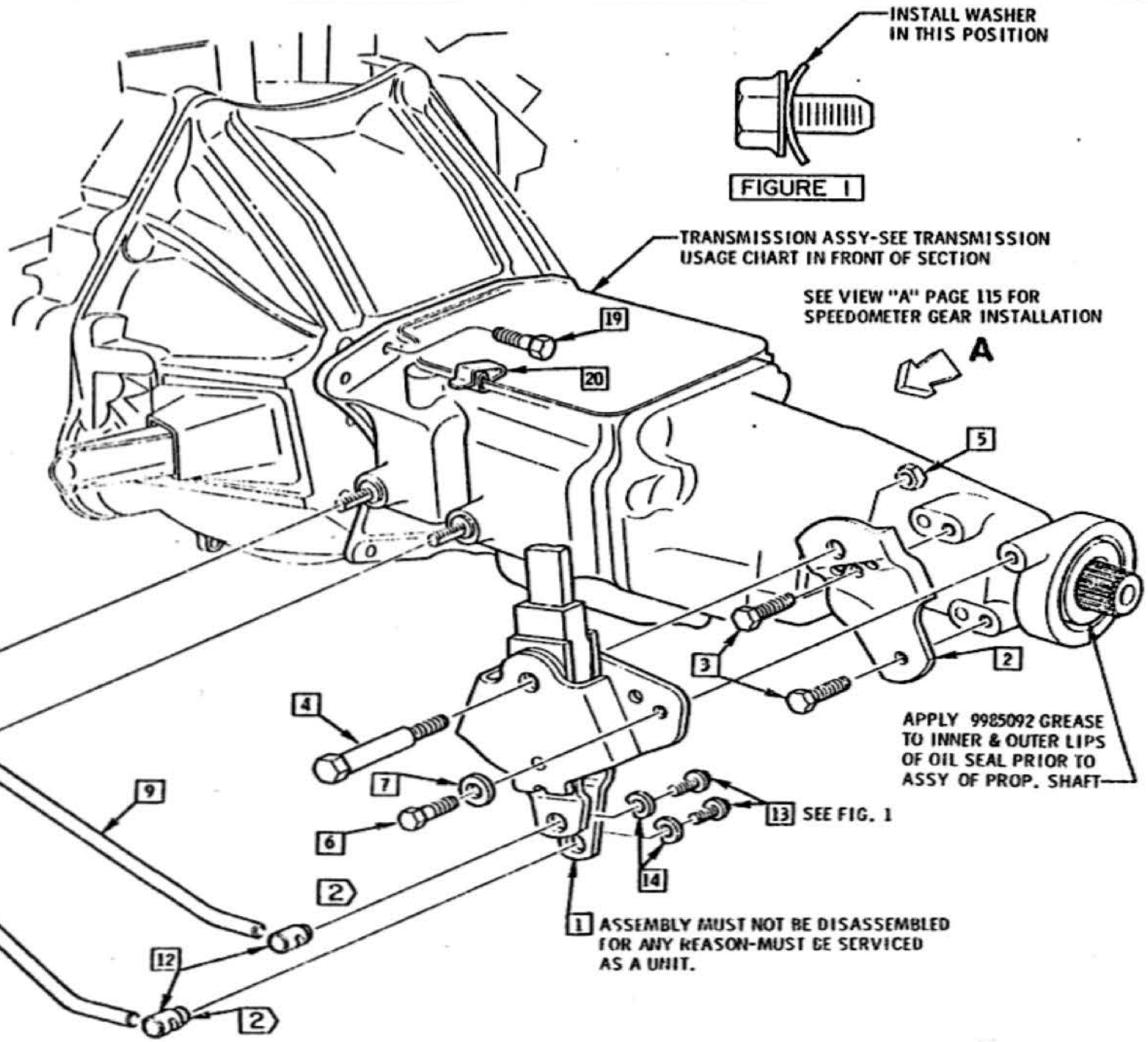
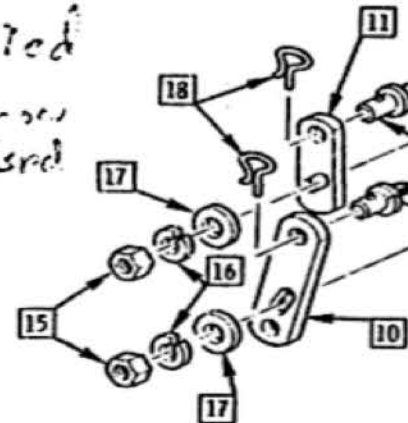
NOTE

FILL THRU FILLER HOLE ON R.H. SIDE OF TRANS. WITH 4.40 PINTS OF 9985133 OR 9985044 (OPT.) OIL, THEN REINSTALL FILLER PLUG. **3**



LEVER, SEAL, & KNOB
INSTALLATION

0 = deleted
✓ = common with 4spd



- 1** 1385630-SHIFTER ASSY
- 2** 391863-SUPPORT
- 5 3** 9418967-BOLT ✓
- 4** 9421348-BOLT
- 6 5** 9418897-NUT
- 5 6** 9418821-BOLT
- 7** 531448-FLAT WASHER
- 8** 9777320-ROD (1ST & REV.)
- 9** 393045-ROD (2ND & 3RD)
- 10** 391864-SHIFT LEVER (1ST & REV.)
- 11** 391865-SHIFT LEVER (2ND & 3RD)
- 12** 1385607-CLAMP ✓
- 4 13** 1381477-SCREW
- 14** 1367656-SPRING WASHER
- 3 15** 9420821-NUT
- 16** 103321-LOCK WASHER
- 17** 9419234-FLAT WASHER

- 18** 3749084-RETAINER ✓
- 7 19** 9419078-BOLT
- 20** 562264-CLIP
- 21** 395796-KNOB ✓
- 2 22** 392966-NUT
- ✓ 23** 394261-SEAL (EXC. 35D55)
389900-SEAL (35D55)
- 24** 389808-RETAINER ✓
- 1 25** 162396-SCREW

- 26** 392965-LEVER (EXC. 4400)
393713-LEVER (4400)

- 1** 12 - 18 LB. IN.
- 2** 30 - 50 LB. IN. **(E)**
- 3** 120 - 180 LB. IN.
- 4** 17 - 23 LB. FT.
- 5** 20 - 30 LB. FT.
- 6** 25 - 35 LB. FT.
- 7** 50 - 65 LB. FT. **(F)**

(G) 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
					8-7-67	E	WAS 35-40 LB. IN.									3 SPED MANUAL FLOOR SHIFT CONTROL				
					7-27-67	D	WAS 1367697-CLAMP									DATE NOVEMBER 18, 1968	1968		7	120
					6-2-67	C	PART NO'S. ADDED									DR. BY W.E. MASON				
					9-1-67	G	NOTE REVISED									CHECKED M.B. BARNHART				
					8-7-67	F	WAS 35-45 LB. FT.									APPR. A. ADZDANSKI	REF. 7A 35M14	SERIES A	PART NO. 398162	

- 1 12 - 18 LB. IN.
- 2 30 - 50 LB. IN.
- 3 120 - 180 LB. IN.
- 4 132 - 180 LB. IN.
- 5 16 - 26 LB. FT.
- 6 20 - 30 LB. FT.
- 7 25 - 35 LB. FT.
- 8 45 - 60 LB. FT.

FILL TRANSMISSION THRU FILLER HOLE ON R.H. SIDE OF TRANS. WITH 2.25 PINTS OF 9985044 OIL THEN REINSTALL FILLER PLUG ³

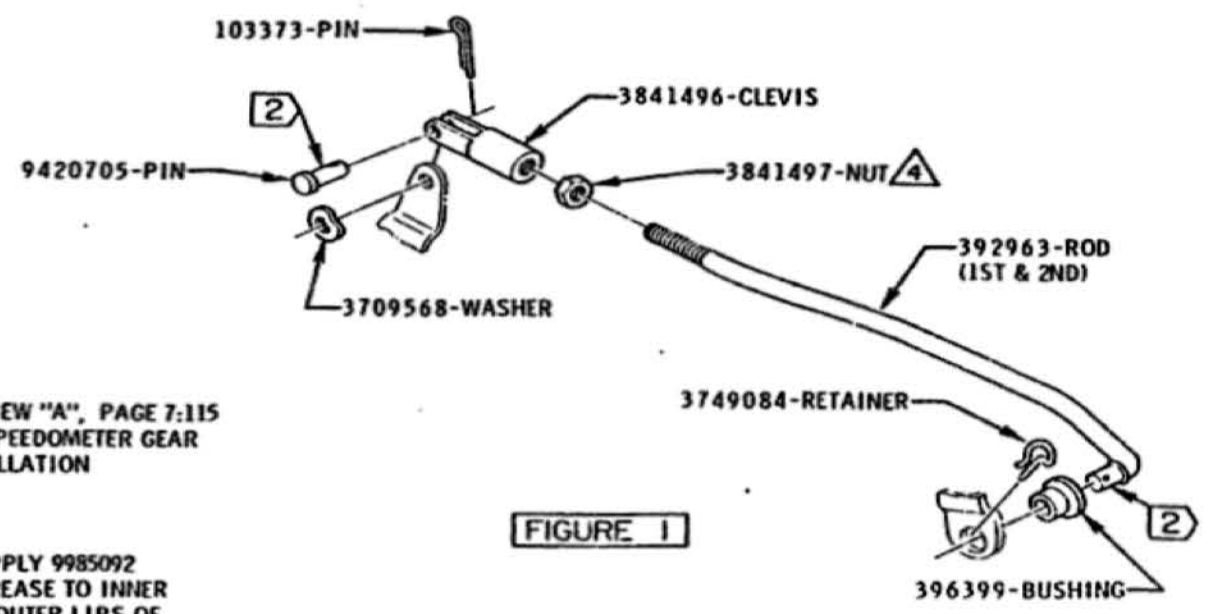
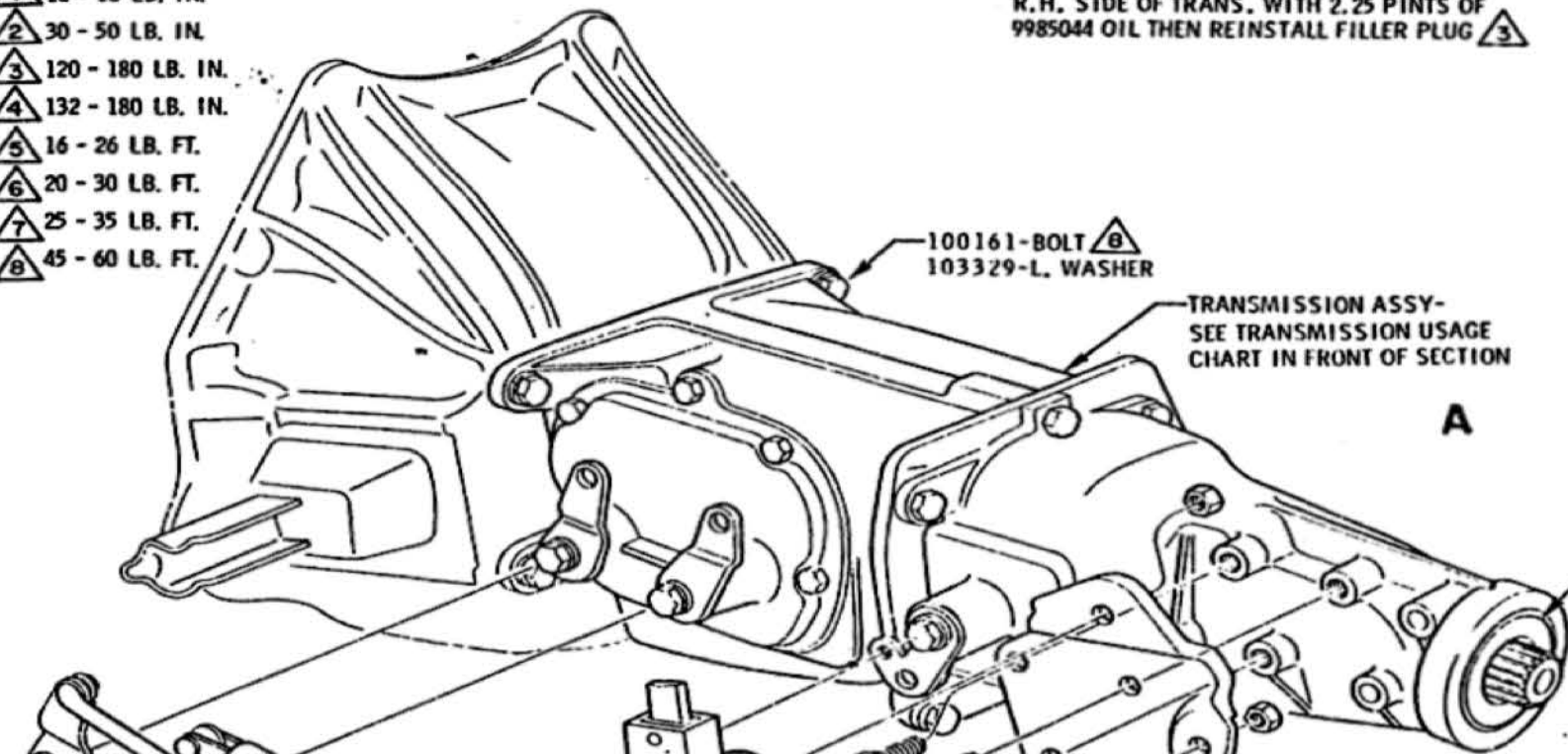


FIGURE 1

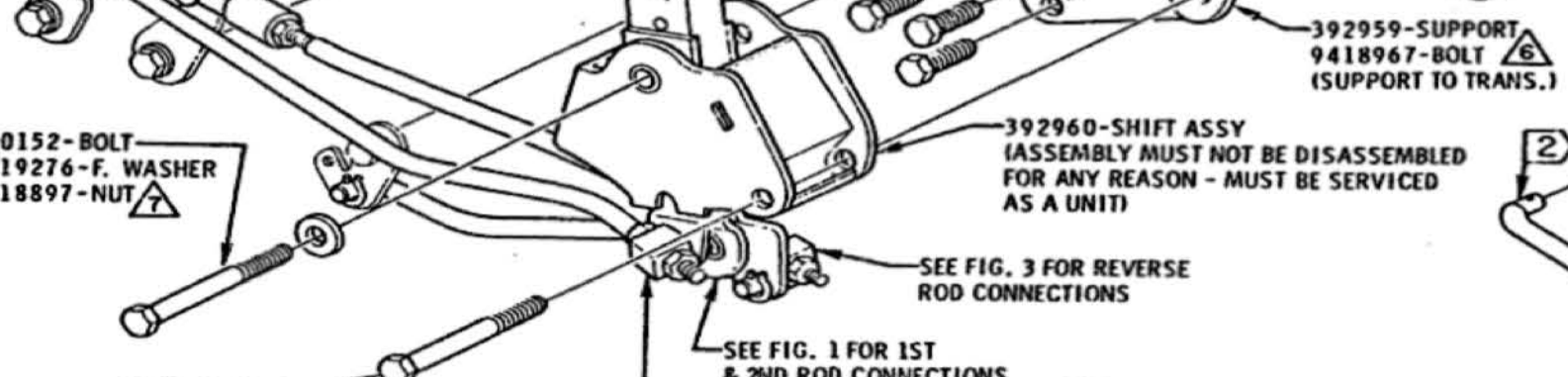


FIGURE 2

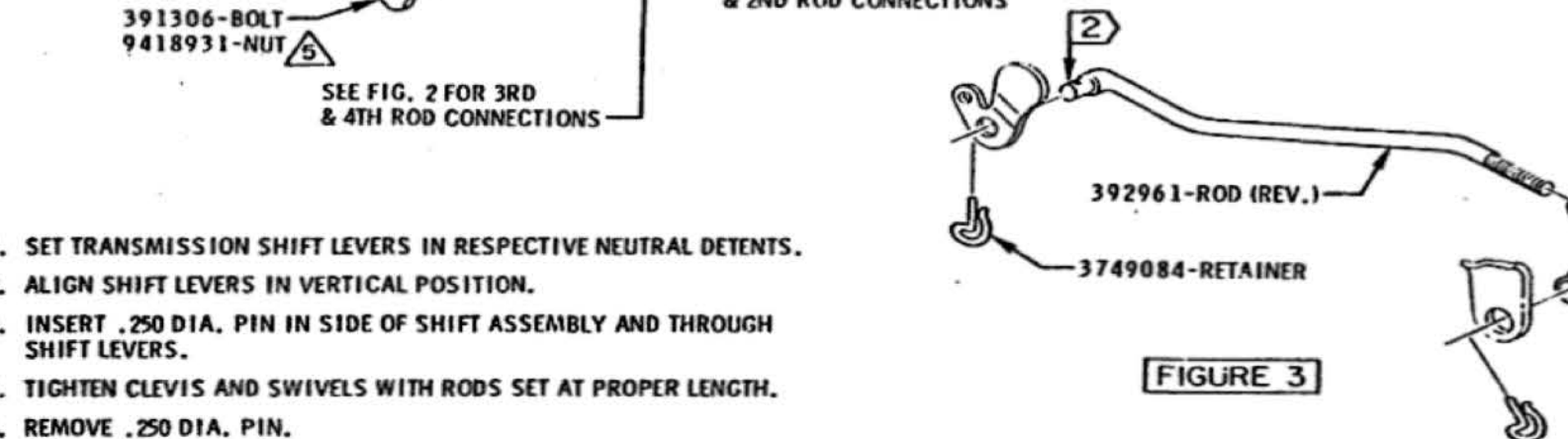
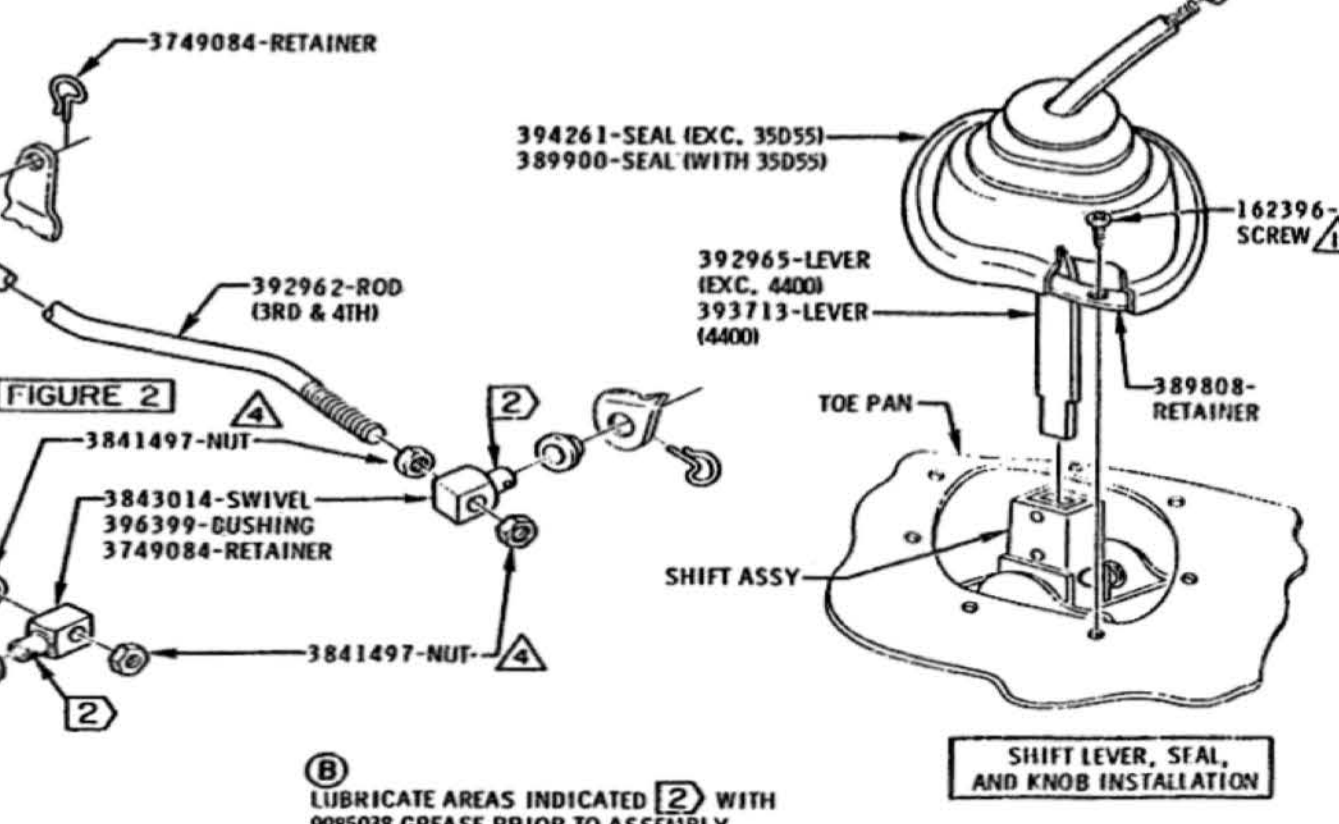


FIGURE 3

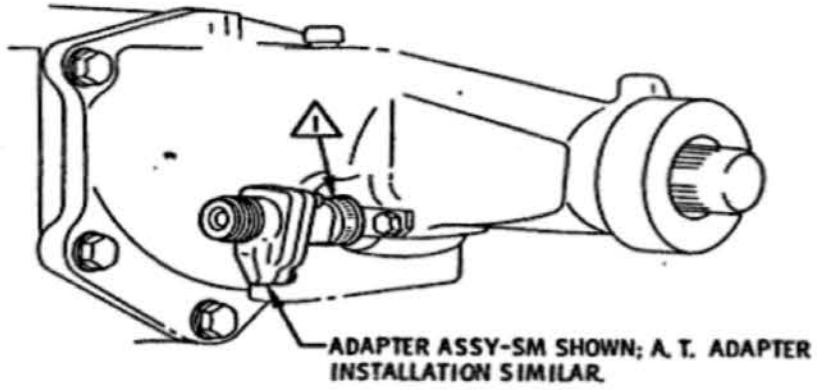


SHIFT LEVER, SEAL, AND KNOB INSTALLATION

1. SET TRANSMISSION SHIFT LEVERS IN RESPECTIVE NEUTRAL DETENTS.
2. ALIGN SHIFT LEVERS IN VERTICAL POSITION.
3. INSERT .250 DIA. PIN IN SIDE OF SHIFT ASSEMBLY AND THROUGH SHIFT LEVERS.
4. TIGHTEN CLEVIS AND SWIVELS WITH RODS SET AT PROPER LENGTH.
5. REMOVE .250 DIA. PIN.

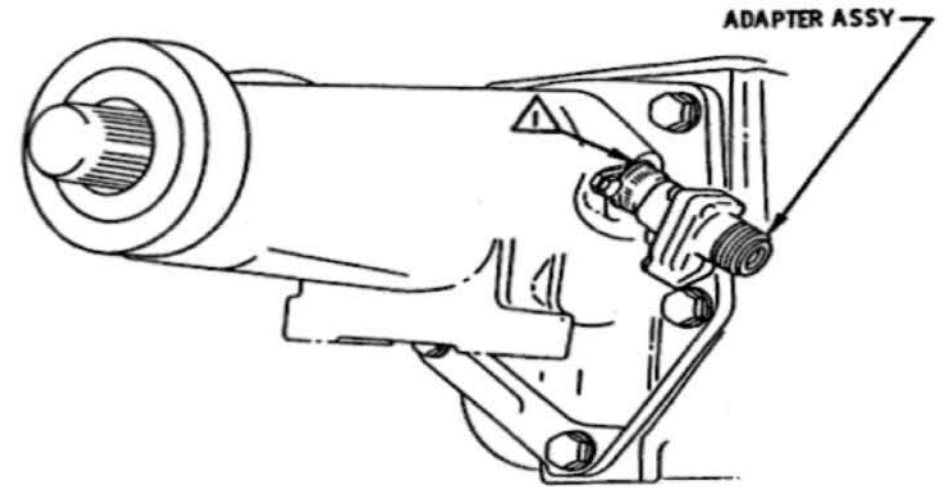
(B) LUBRICATE AREAS INDICATED ² WITH 9985038 GREASE PRIOR TO ASSEMBLY

TITLE										4 SPEED MANUAL FLOOR SHIFT CONTROL												
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	7	PAGE	125
					9-1-67	B	NOTE REVISED									REF. 35N20		SERIES	A	PART NO.	398162	
					8-4-67	A	TORQUE SPEC. ADDED									35M21						

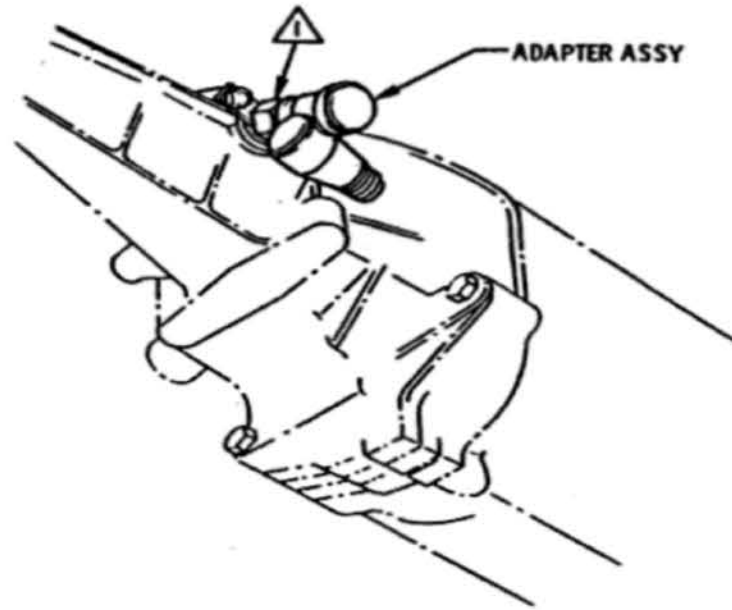


3 SPEED SM COLUMN SHIFT
 AND
 AUTOMATIC TRANSMISSION

NOTE
 SEE SPEEDO. GEAR USAGE CHART IN
 FRONT OF SECTION FOR ADAPTER USAGE.



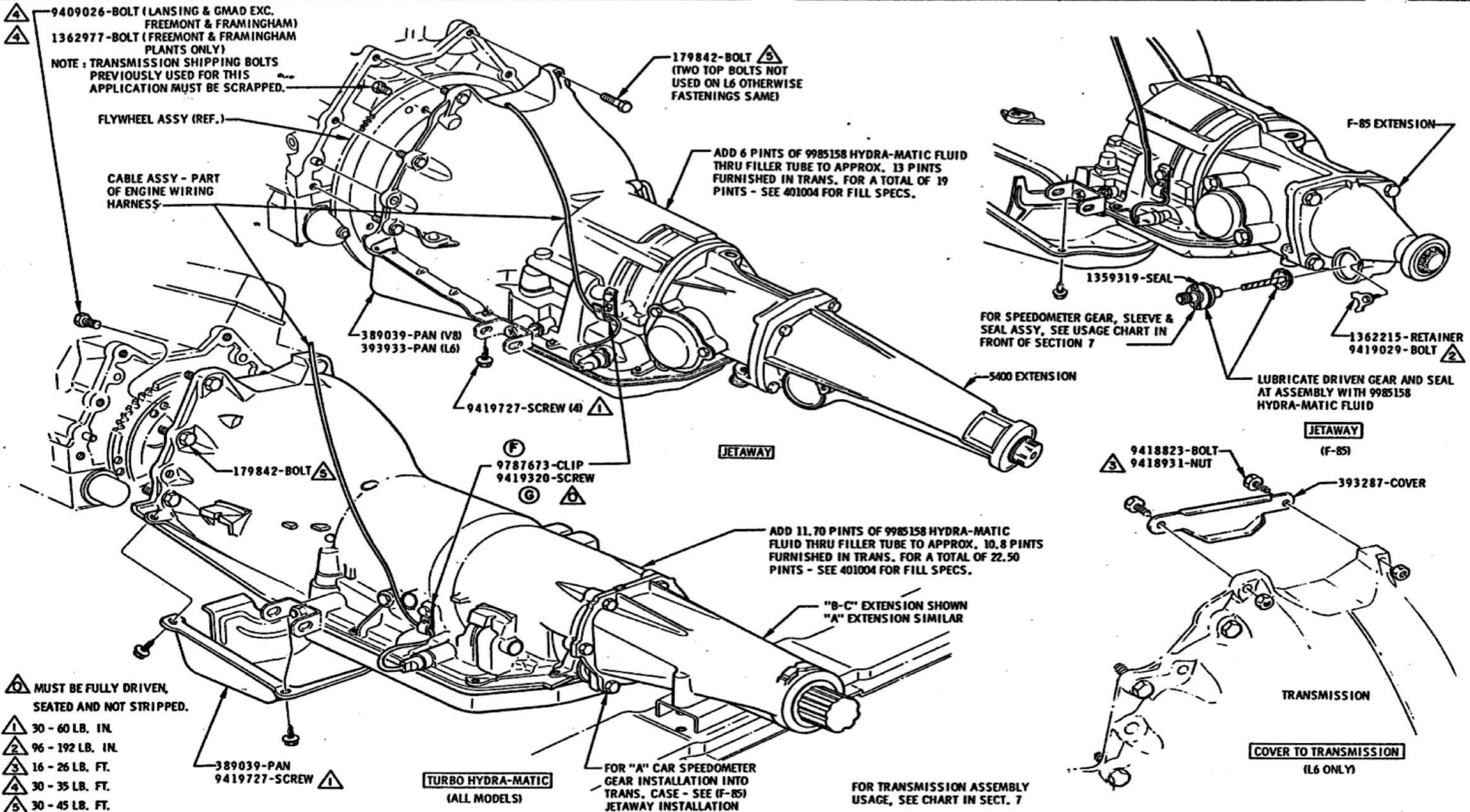
3 SPEED SM FLOOR SHIFT



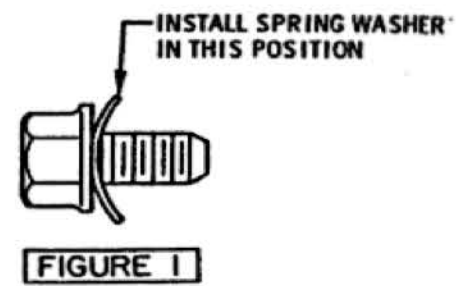
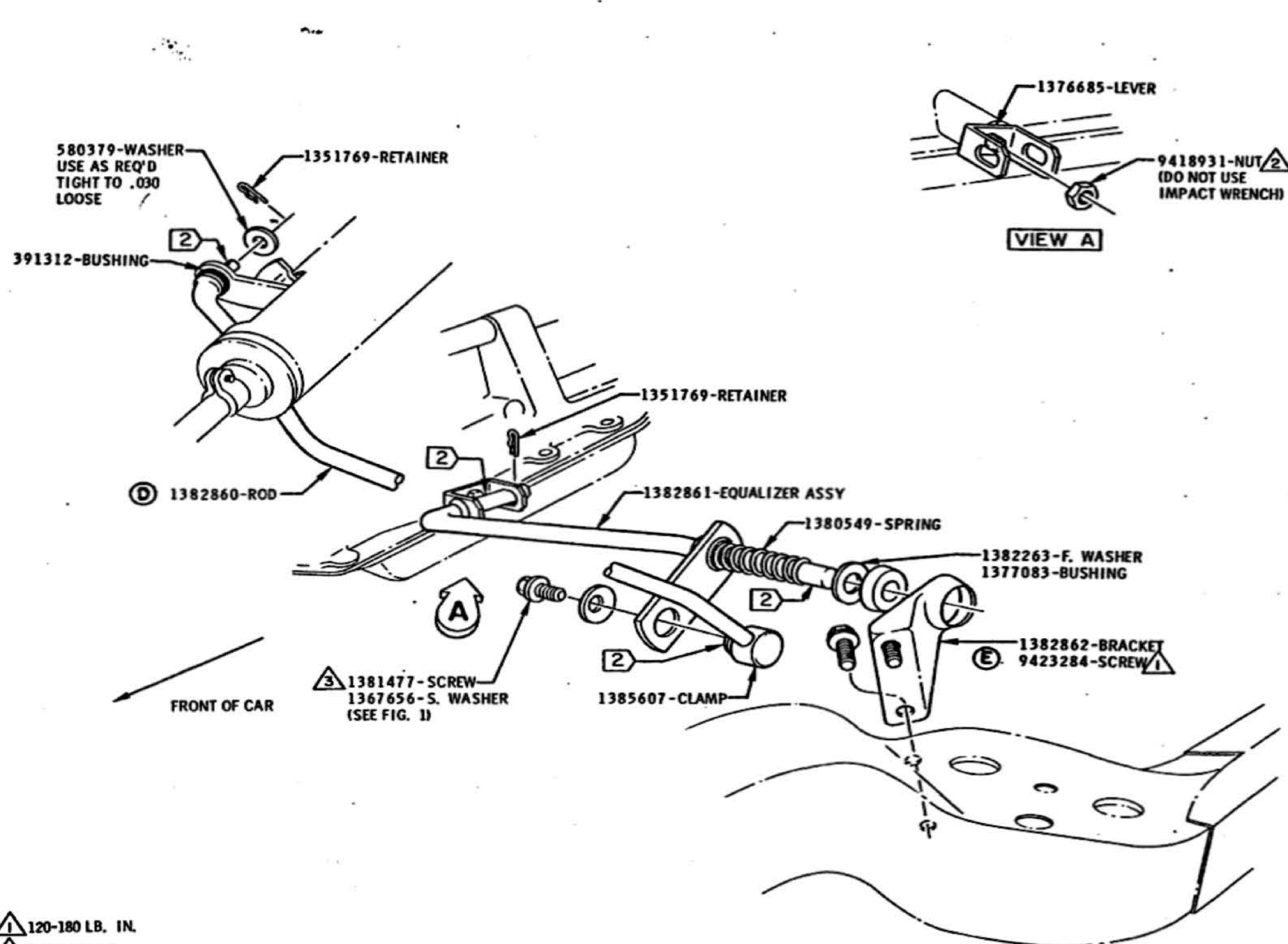
4 SPEED TRANSMISSION

⚠ 20 - 80 LB. IN.

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
												SPEEDOMETER DRIVEN GEAR ADAPTER	1968		7	128
												DATE <i>SEPTEMBER 27, 1967</i>				
												DR. BY <i>W. C. MASON</i>				
												CHECKED <i>J. P. Barnhart</i>				
												APPR.	REF.	SERIES	PART NO.	
														A	398162	



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	Er	Pr							AUTOMATIC TRANSMISSION				
					8-28-67	D	TORQUE NOTES REVISED	Er	DJ							DATE FEBRUARY 10, 1967	1968		7	135
					8-7-67	C	NOTE REVISED	Er	Pr							DR. BY ED J. ROE				
		4-16-68			G	WAS 3837950										CHECKED <i>MPB</i>				
		12-13-67			F	WAS 1362774 - CLIP										APPR. F. ROENDWSKI	REF. 35M91			
																	M40, M41 (783) (120)	SERIES A-B-C	PART NO. 398162-3	



580379-WASHER
USE AS REQ'D
TIGHT TO .030
LOOSE

391312-BUSHING

1351769-RETAINER

1376685-LEVER

9418931-NUT
(DO NOT USE
IMPACT WRENCH)

VIEW A

FIGURE 1

1382860-ROD

1351769-RETAINER

1382861-EQUALIZER ASSY

1380549-SPRING

1382263-F. WASHER
1377083-BUSHING

1382862-BRACKET
9423284-SCREW

1381477-SCREW
1367656-S. WASHER
(SEE FIG. 1)

1385607-CLAMP

FRONT OF CAR

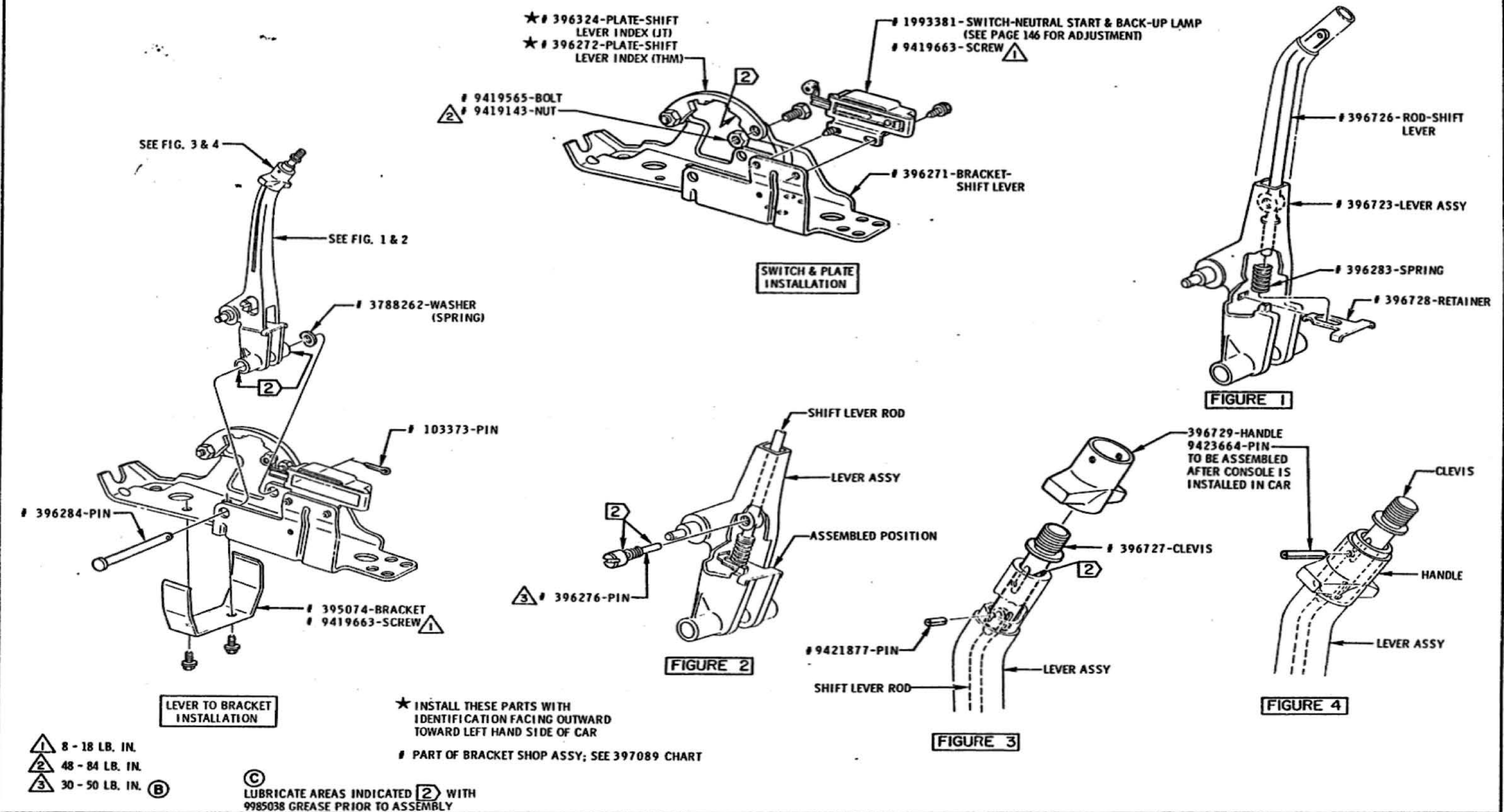
SHIFT ROD ADJUSTMENT PROCEDURE

1. SET TRANSMISSION OUTER SHIFT LEVER IN DRIVE POSITION.
2. HOLD UPPER SHIFT LEVER AGAINST DRIVE POSITION STOP IN UPPER STEERING COLUMN. (DO NOT RAISE LEVER.)
3. TIGHTEN SCREW IN CLAMP ON LOWER END OF SHIFT ROD TO SPECIFIED TORQUE.

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

LUBRICATE AREAS INDICATED 2 WITH
9985038 GREASE PRIOR TO ASSEMBLY

											4-1-68	F	WAS 9419402-SCREW	80003		AUTOMATIC TRANSMISSION COLUMN SHIFT CONTROL					
											9-18-67	D	REVISED TO DETAIL	80003		DATE NOVEMBER 1, 1966					
											9-1-67	C	NOTE REVISED	80003		FIRST USED 1968					
											7-27-67	B	WAS 1367697-CLAMP	80003		DR. BY W.E. HANSON					
											2-9-67	A	391312-BUSHING ADDED	80003		CHECKED BY [Signature]					
																REF.		SERIES A		PART NO. 398162	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.						



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

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

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

TITLE AUTOMATIC TRANSMISSION FLOOR SHIFT CONTROL									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
					9-1-67	C	NOTE REVISED		
					8-4-67	B	WAS 96-132 LB. IN.		
					6-7-67	A	RELEASED FOR "E" CAR		

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
											AUTOMATIC TRANSMISSION FLOOR SHIFT CONTROL	DECEMBER 16, 1966	1968		7	145
												SERIES	PART NO.			
												A-B-E	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.

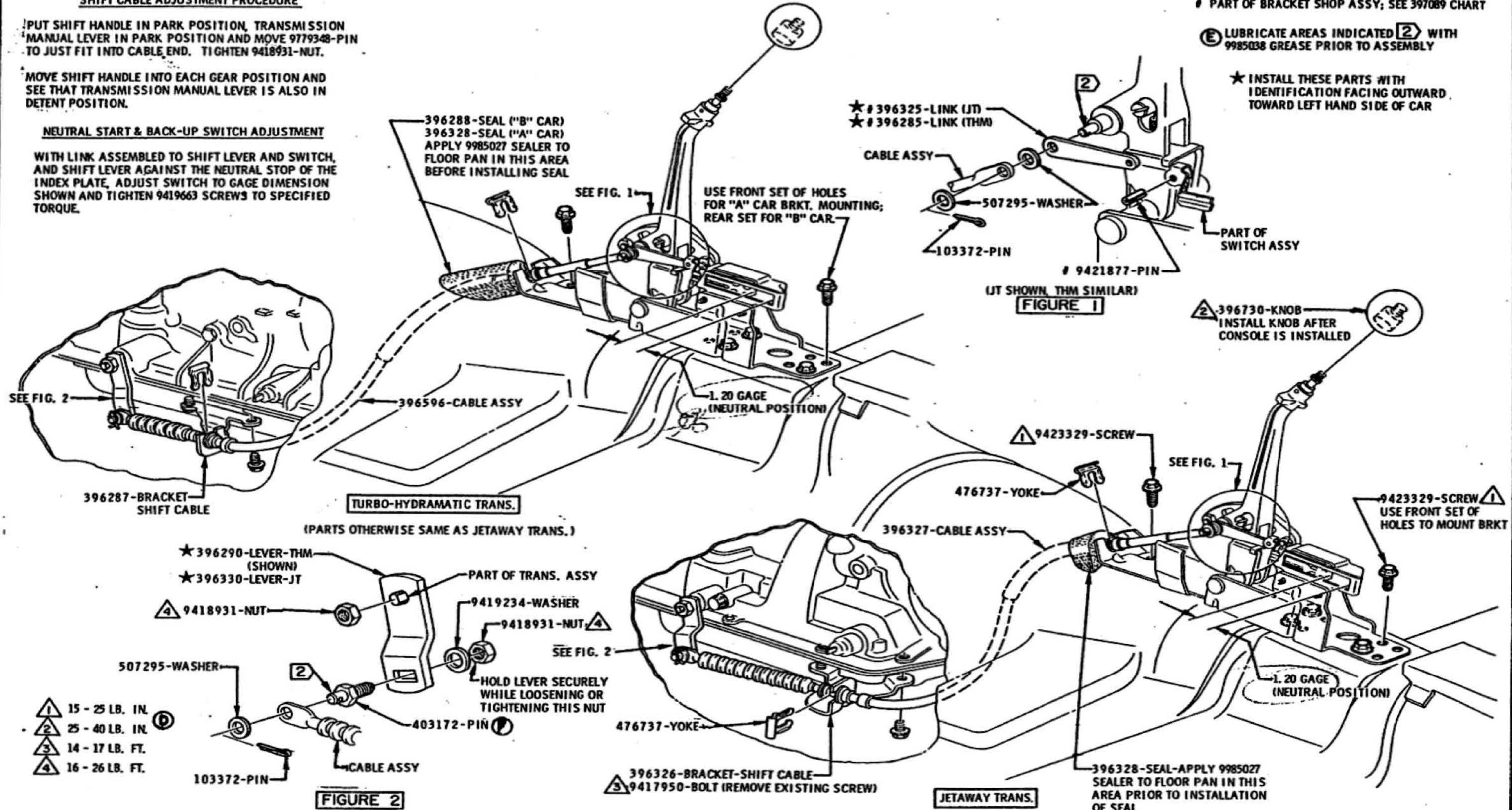
NEUTRAL START & BACK-UP SWITCH ADJUSTMENT

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

(E) 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				
					8-29-67	D	TORQUE'S REVISED			12-16-66						DATE DECEMBER 16, 1966	1968		7	146
					8-7-67	C	WAS 10-15 LB. FT.									DR. BY W.E. MASON				
					6-16-67	B	NOTE REVISED									CHECKED (M) [Signature]				
					5-2-67	A	NOTE ADDED									APPR. E. ADENOWSKI				
		2-12-68			F	WAS 9779348-PIN										REF. 1-6715 TR. 6760				
																35433, N34, N40, M41				
																SERIES				
																A-B				
																PART NO.				
																398162-3				

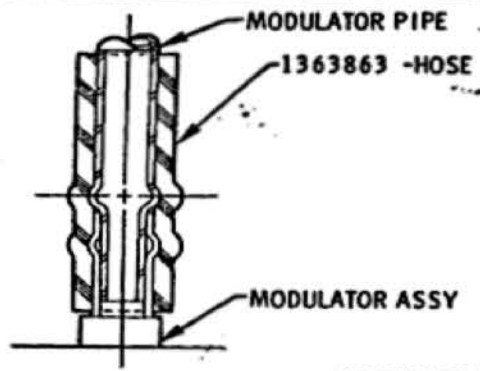


FIGURE 3

2 INSTALL BRACKET UNDER EXISTING BOLT

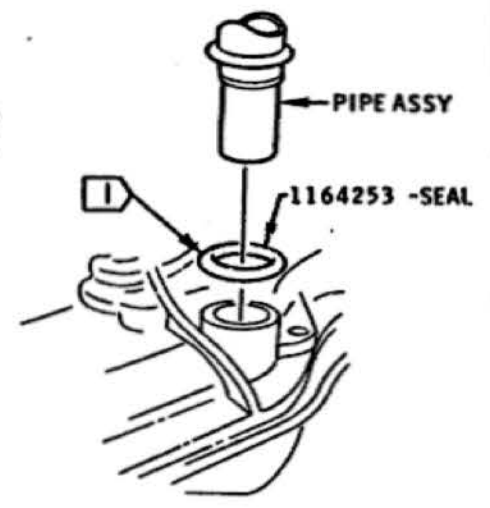
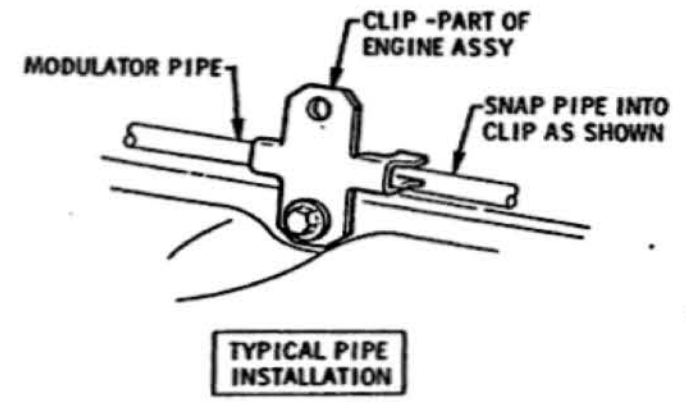
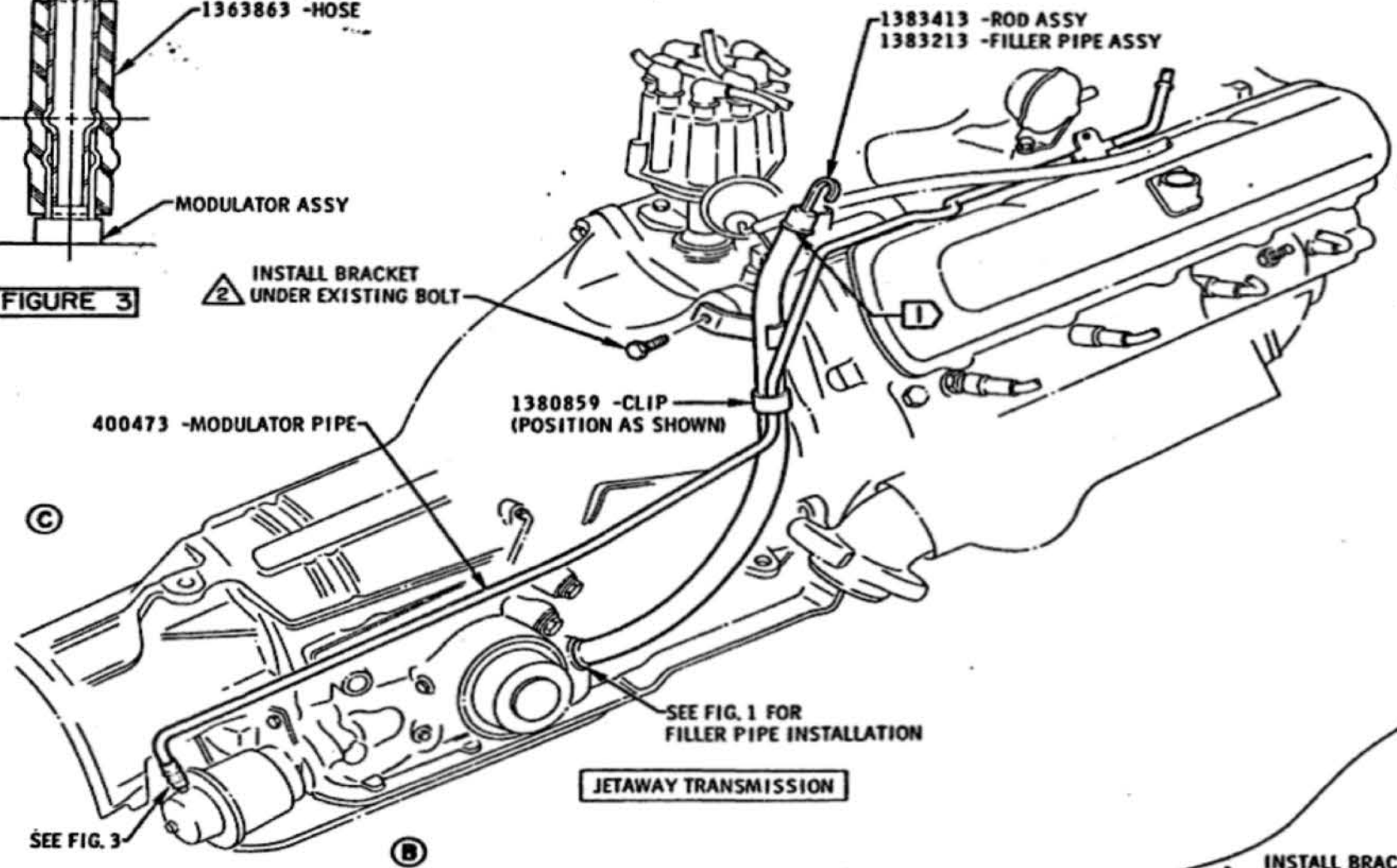


FIGURE 2

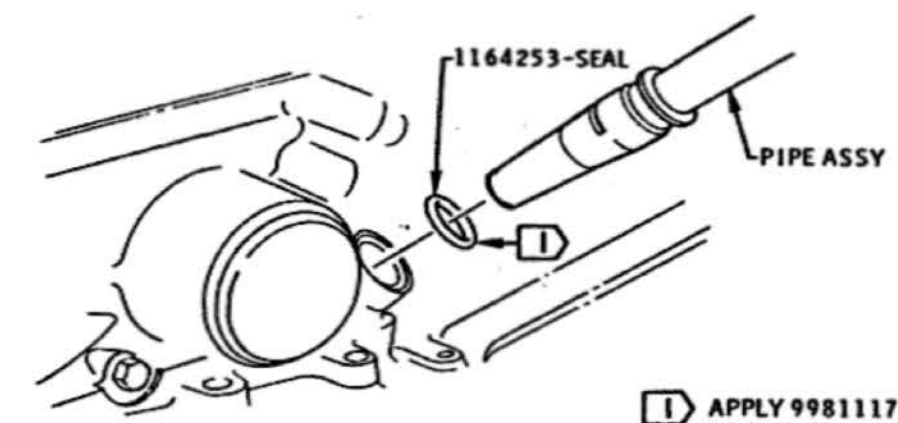
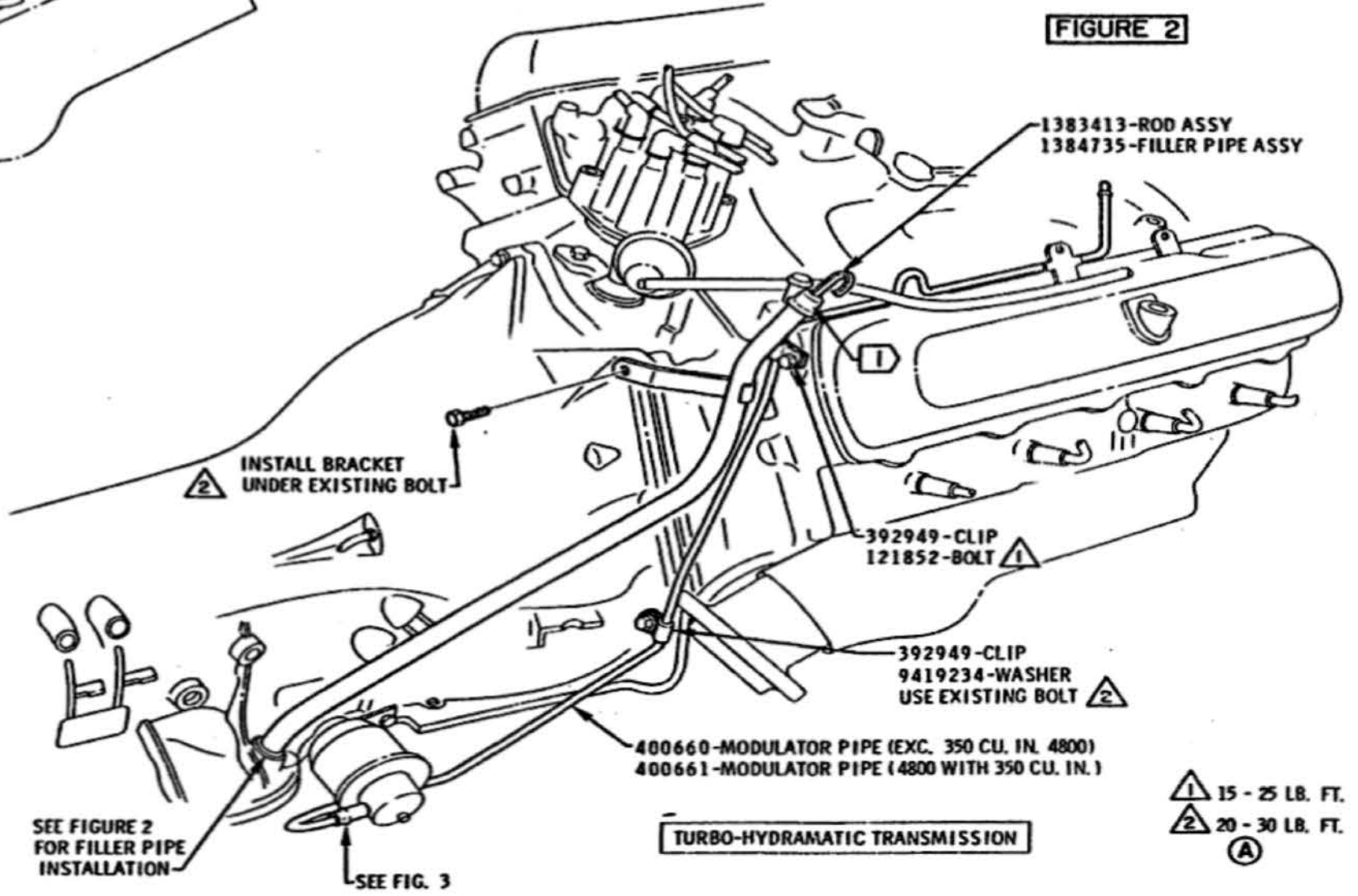


FIGURE 1



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

TITLE										V8 MODULATOR AND FILLER PIPES									
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		7	150
																REF. 35M31	M40	SERIES	PART NO.
																(183A & 785C)	A		398162

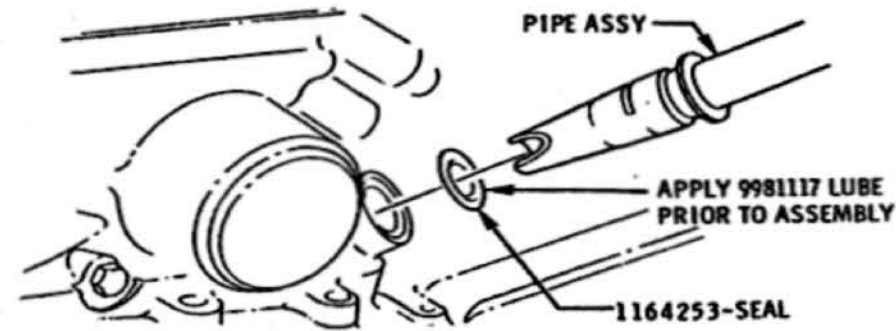


FIGURE 2

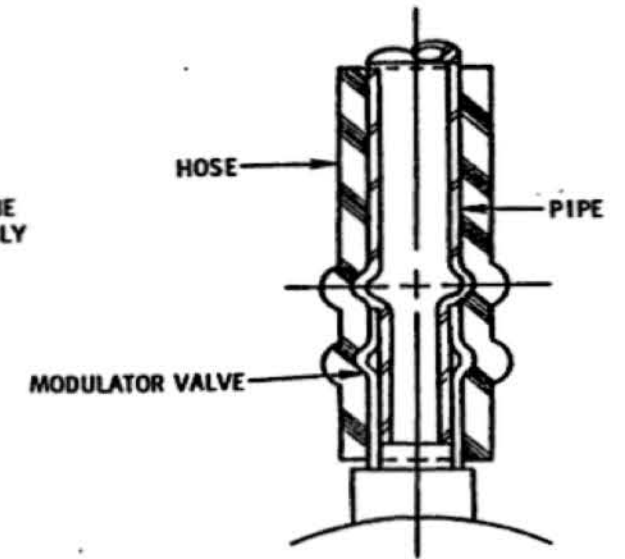
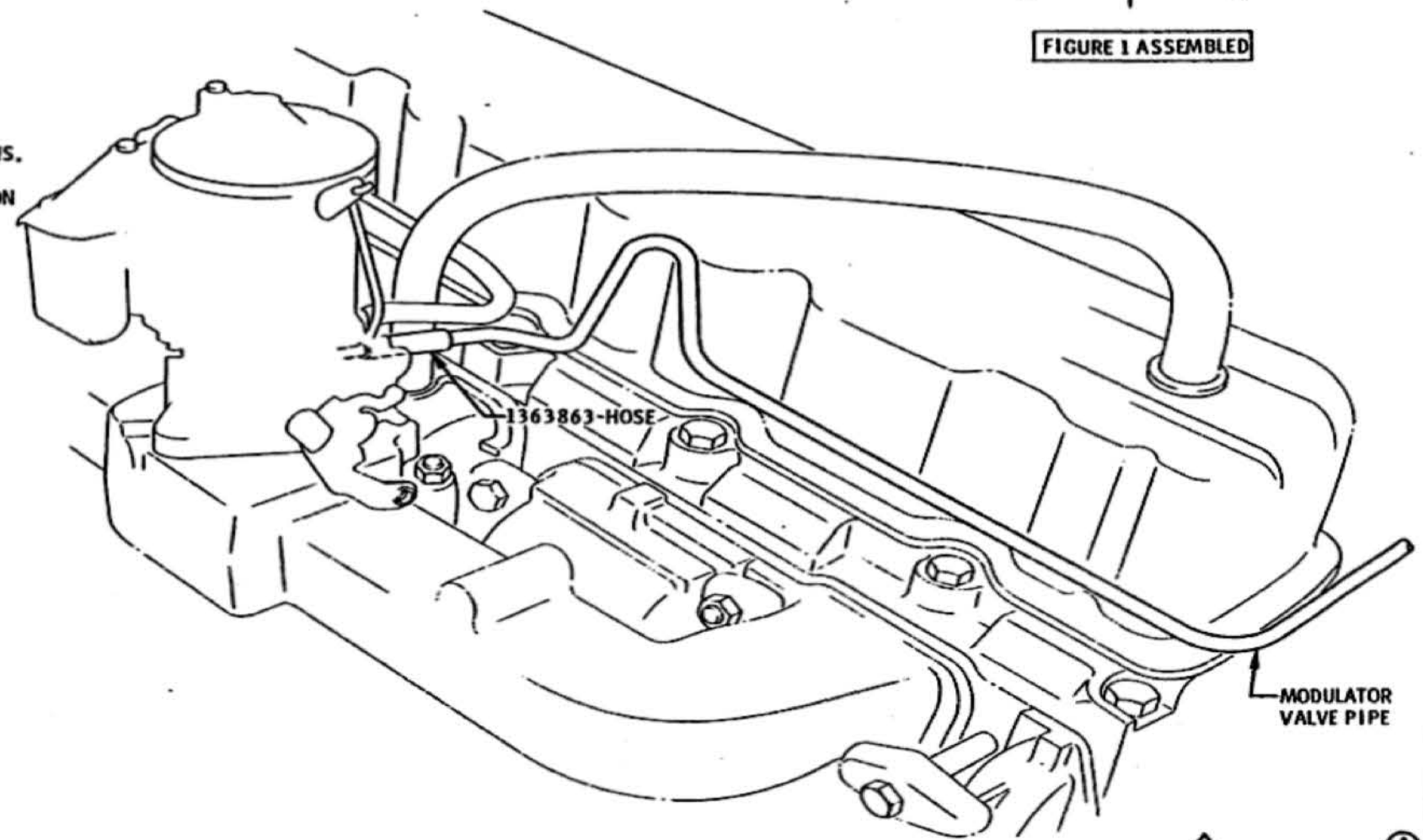
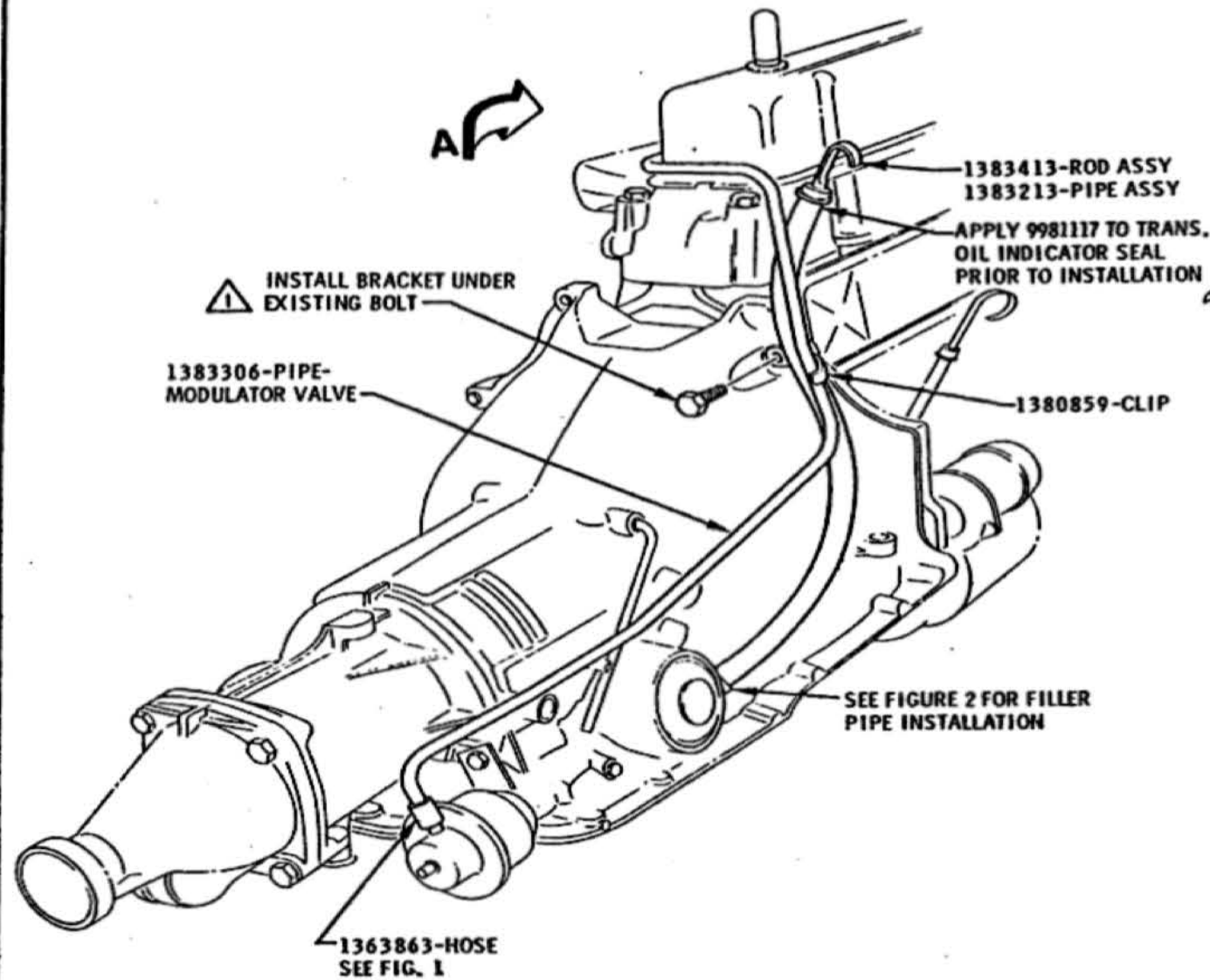
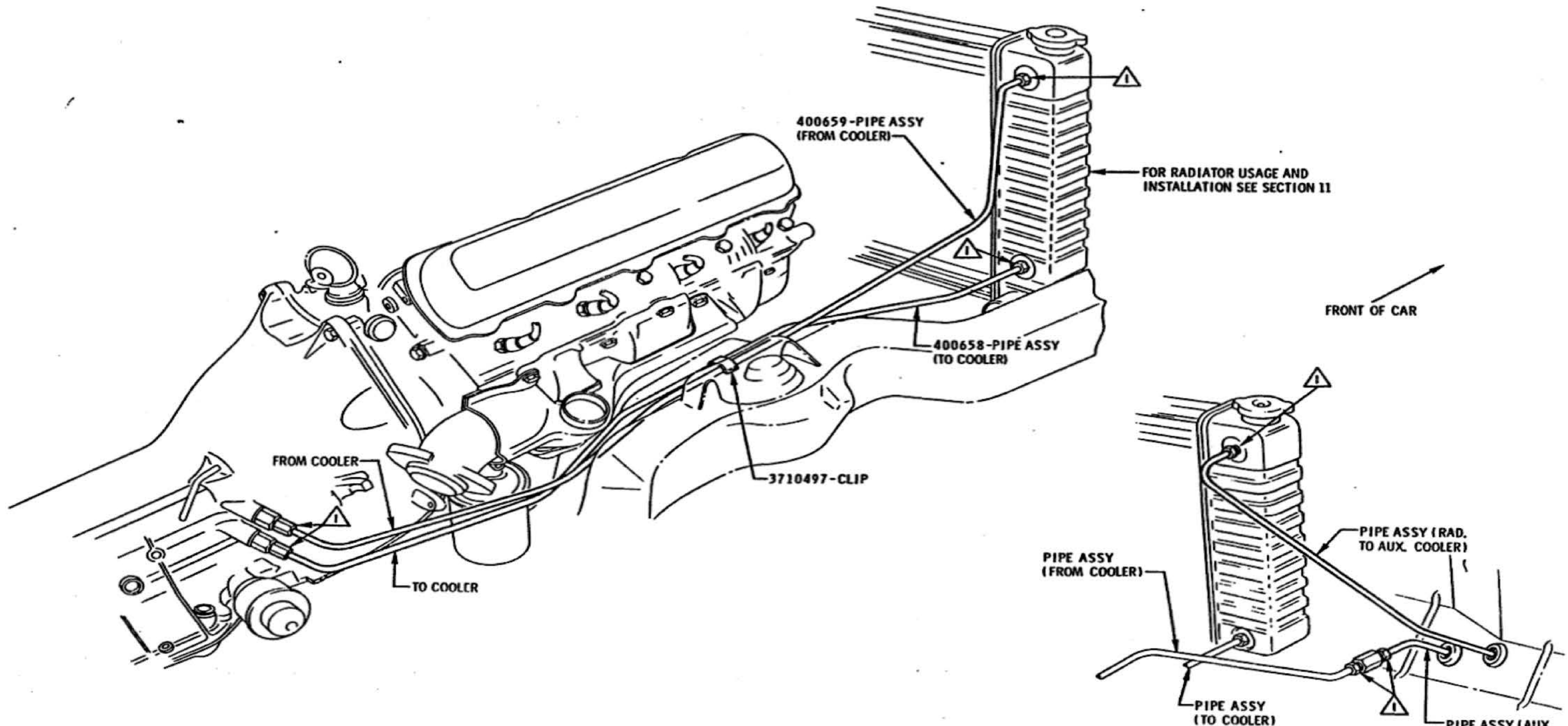


FIGURE 1 ASSEMBLED



VIEW A

TITLE										L6 MODULATOR PIPES								
DATE MARCH 15, 1967										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SECTION		PAGE		
DR. BY W.E. MASON										1968		INFORMATION MANUAL		7		151		
CHECKED BY J.B. Amhart										REF. 55M31 (783C) (783A)		SERIES		PART NO.		398162		
8-7-67 A WAS 30-45 LB.FT. 14, 973										8L-16506		A						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	APPR.	APPR.	APPR.



NOTE
FOR INSTALLATION OF
AUXILIARY OIL COOLER
SEE SECTION 11

⚠ 20 - 30 LB. FT.

**AUXILIARY OIL COOLER PIPES TO
TRANS. OIL COOLER PIPES & RADIATOR**
(E) (35M55)

1ST TYPE

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
															AUTOMATIC TRANSMISSION OIL COOLER PIPES	1968	7	155	
					10-25-67	E	VIEW REV. & REDRAWN								DATE MARCH 6, 1967				
					9-14-67	D	REVISED & REDRAWN - "B-C" SERIES REMOVED								DR. BY N.C. MASON				
															CHECKED [Signature]				
															APPR. F. ROZNOWSKI				
																REF. 15M51, 35M40, 35M55 (7-56) TR-7869	SERIES A	PART NO. 398162	

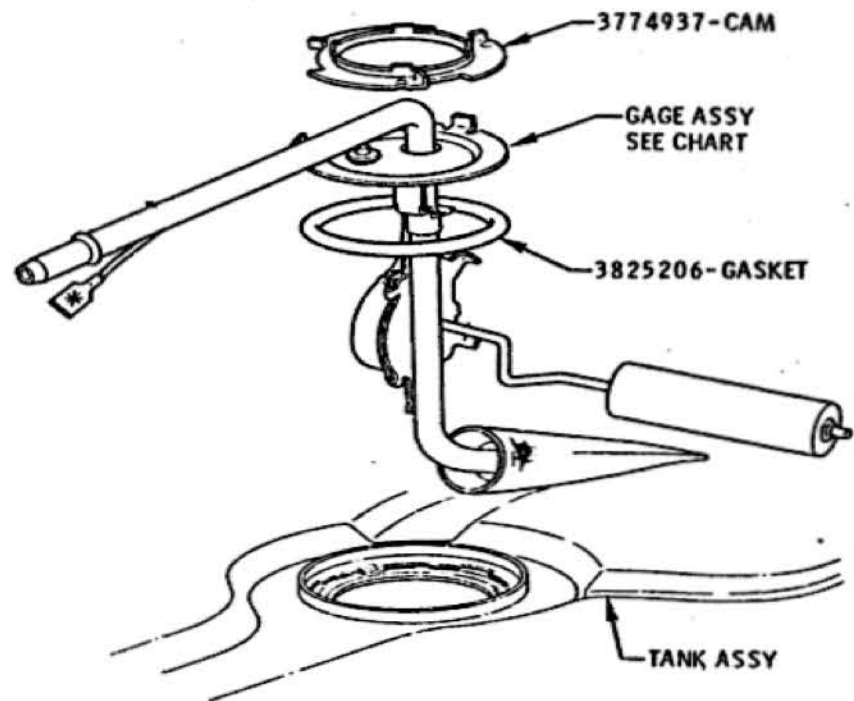


FIGURE 1

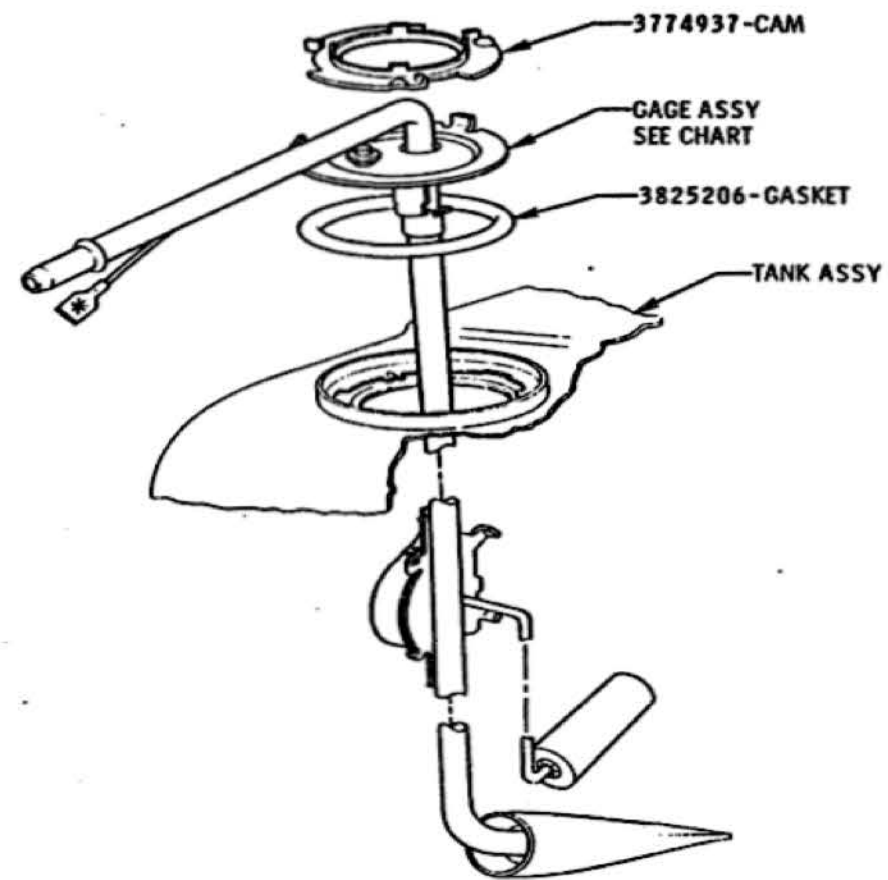
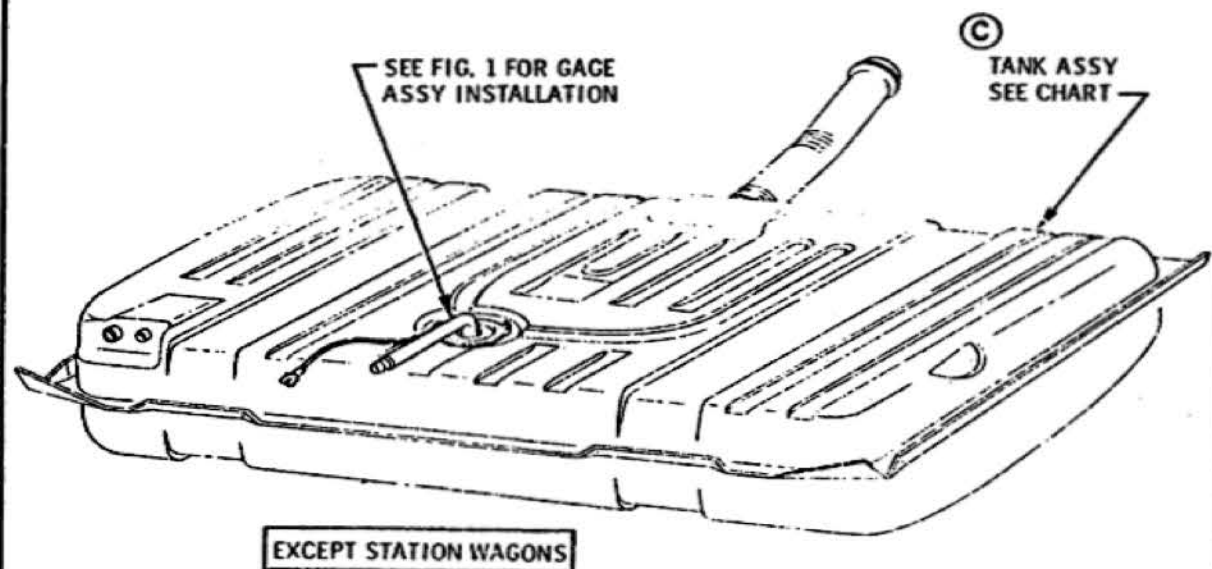
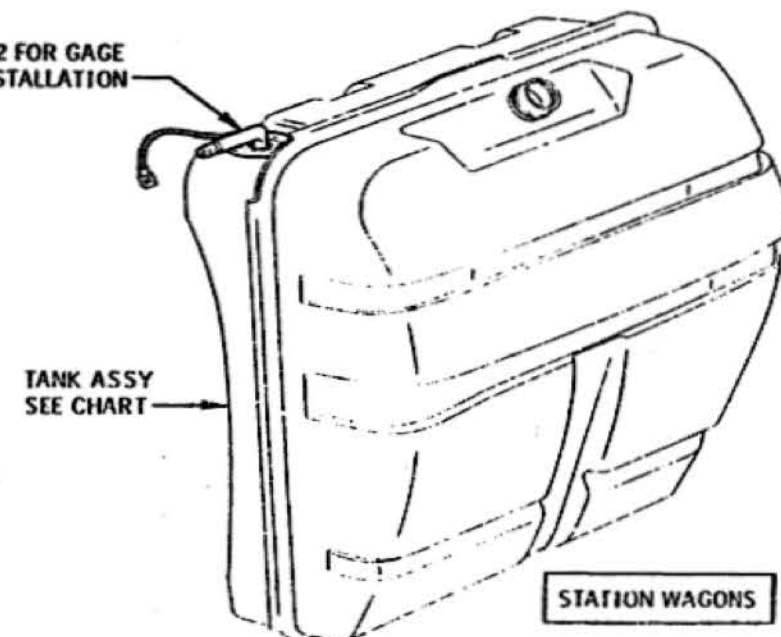


FIGURE 2



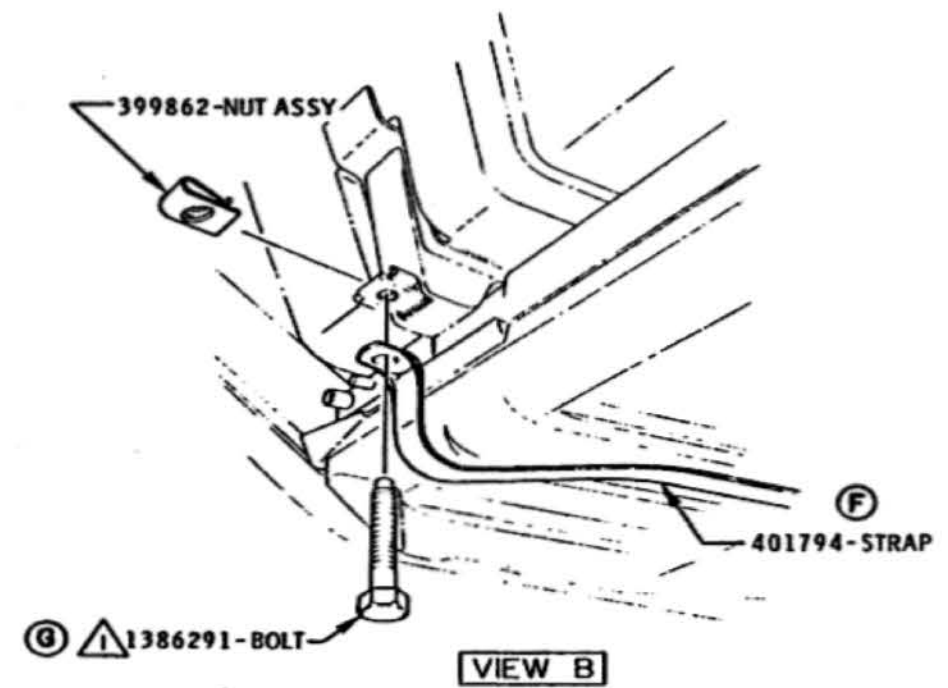
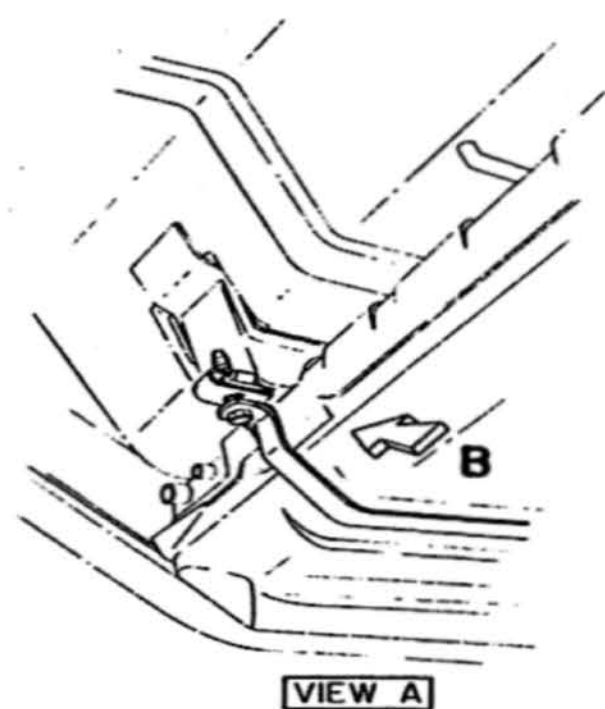
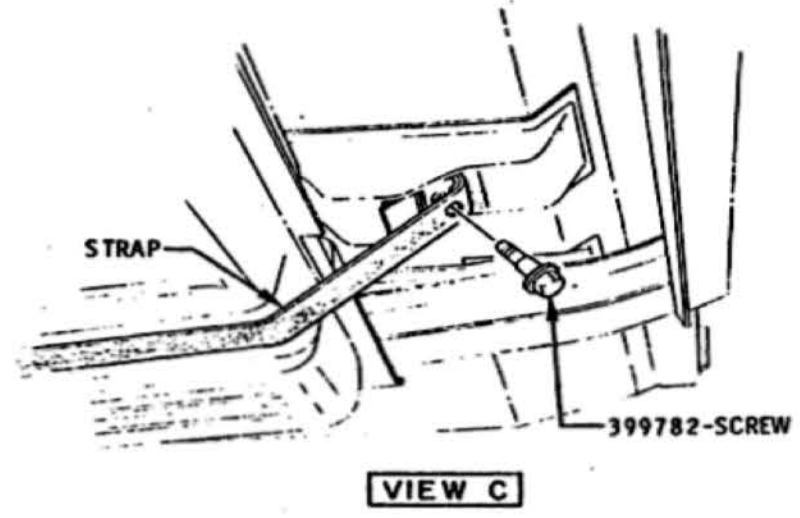
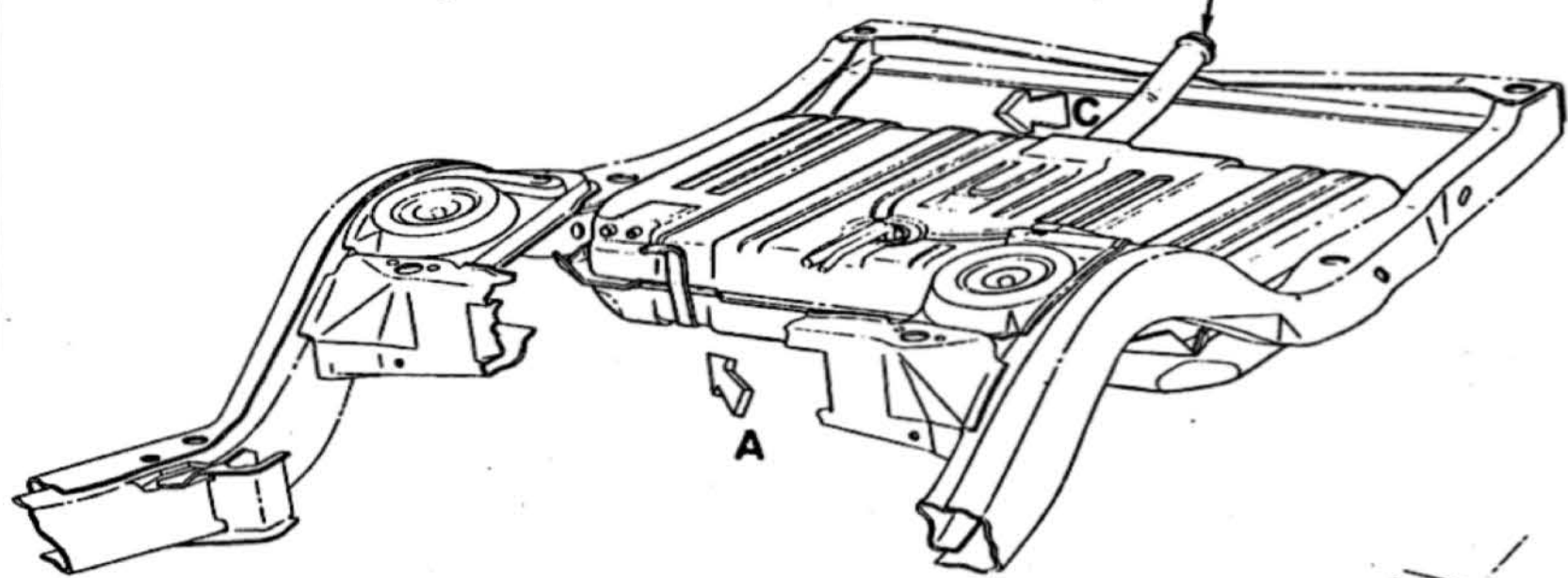
SEE FIG. 2 FOR GAGE ASSY INSTALLATION



FUEL TANK ASSEMBLY USAGE CHART			
TANK ASSY (LESS GAGE)	TANK ASSY (COMPLETE)	GAGE ASSY	USAGE
401490 (B)	398221	6427682	L6 & 350 CU. IN. V8 (EXC. S.W.)
	398298	6428005	400 CU. IN. V8 EXC. 4800
398168	398167	6427768	L6 & 350 CU. IN. V8 STATION WAGONS
	400161	6428004	4800 WITH 35L65, L77, L78

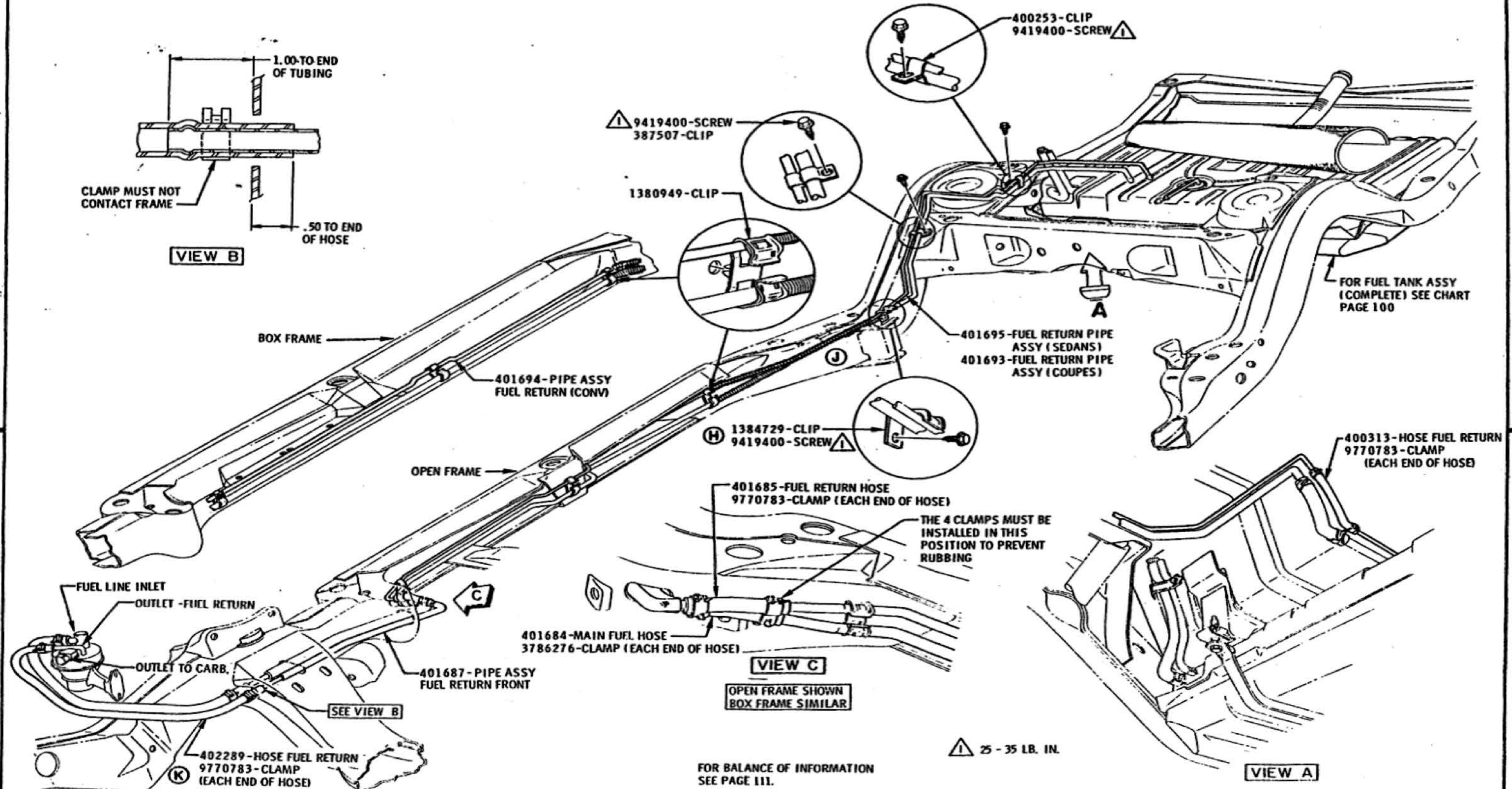
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
													CHART - FUEL TANK ASSEMBLY COMPLETE	1968		8	100
				7-27-67	C	REVISED TO DETAIL	J13		P73				DR BY ISOYER				
				7-12-67	B	WAS 398222 TANK ASSY	J13		P73				CHECKED P73 Barnhart				
				4-24-67	A	FIGURE 2 ADDED	J13		P73				APPR.				
																SERIALS	PART NO.
																A	398162

1376973-CAP ASSY
1378123-CAP ASSY (OPT.)
(REGULAR FUEL)
383150-CAP ASSY
(PREMIUM FUEL)
FILL FUEL TANK WITH 4
GALLONS OF 9985015
PREMIUM GASOLINE

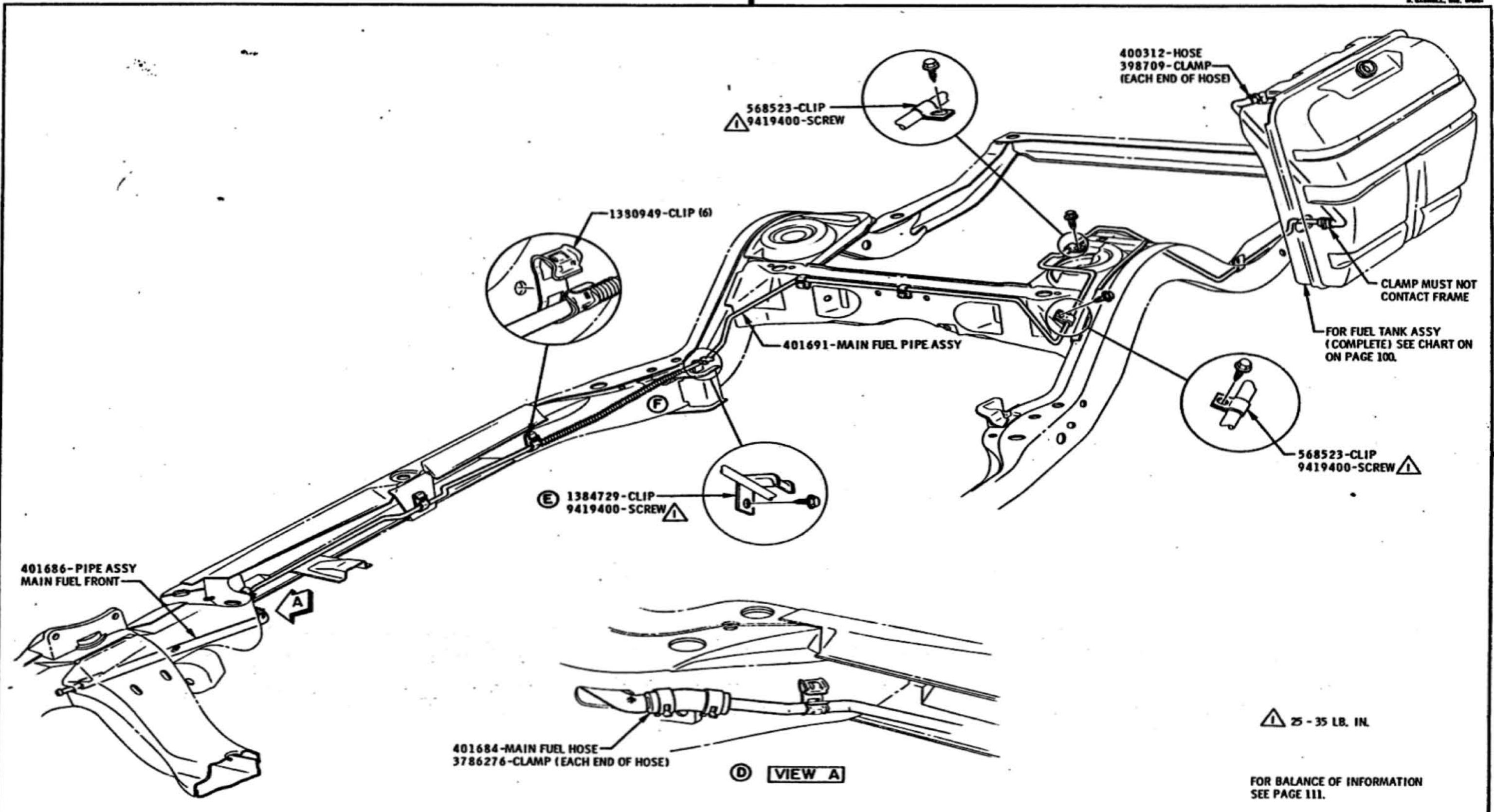


⚠ 96 - 120 LB. IN.

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	
					7-27-67	E	TANK REVISED TO DETAIL	J13	P23												FUEL TANK MOUNTING (EXCEPT STATION WAGONS)	1968		8	110
					6-30-67	D	TORQUE SPEC. ADDED	J13	P23												DATE JANUARY 4, 1967				
					6-15-67	C	REVISED TO DETAIL	J13	P23												DR. BY ISOYER				
					9-13-67	G	WAS 399739 BOLT	J13	P23	4-24-67	B	2	NUT REPOSITIONED	J13	P23						CHECKED <i>MFB</i>	REF. 8A			
					8-16-67	F	WAS 398235 STRAP	J13	P23	3-23-67	A		PIPES REVISED	J13	P23						APPR. <i>J.P. Johnson</i>		SERIES A	PART NO. 398162	

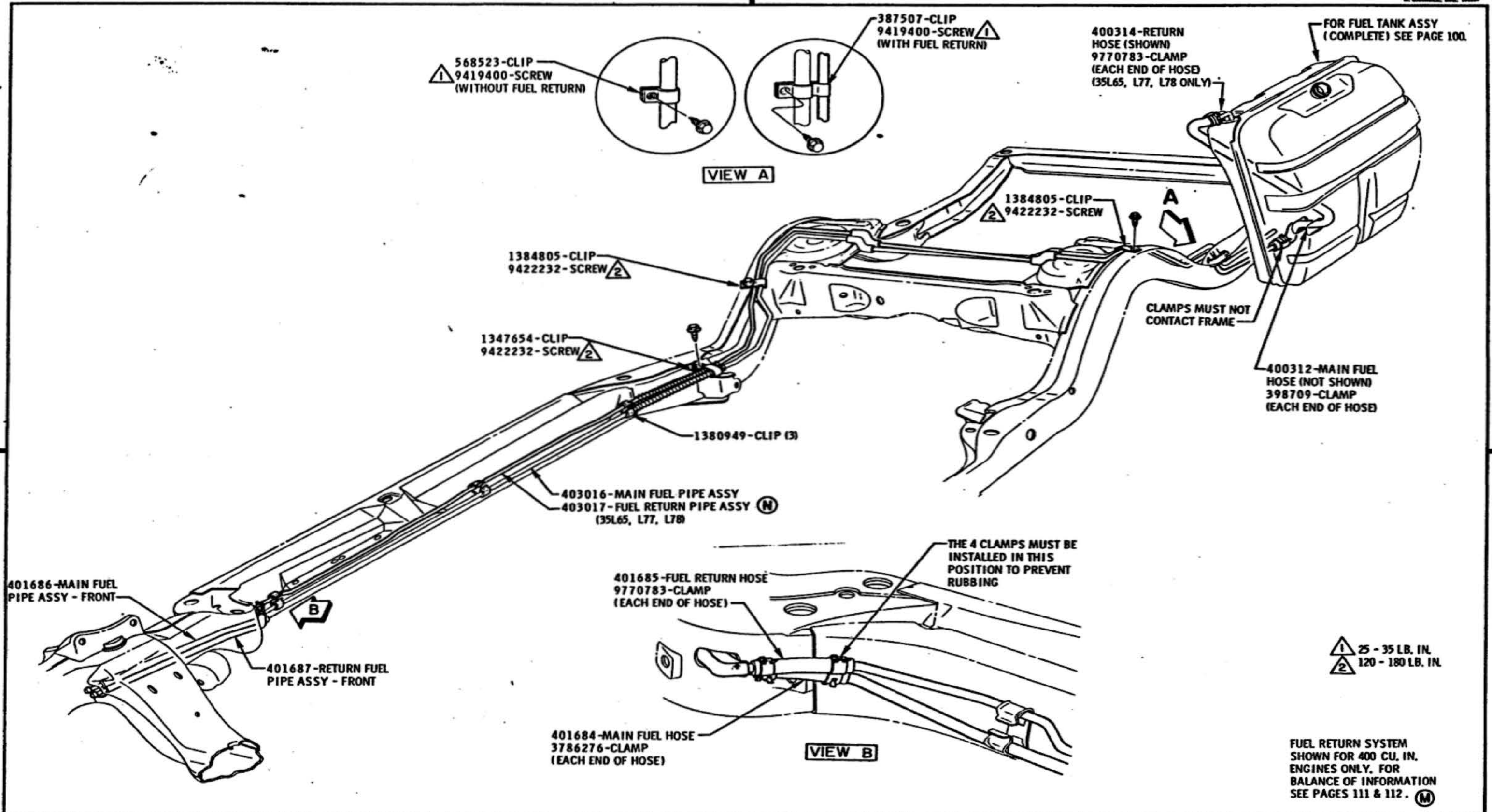


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SYM. EIGHT	PAGE	
					10-25-67	I	WAS 380482 HOSE	J13	P73	3-8-67	E	PART NO. ADDED	J13	P73							FUEL SYSTEM - FUEL RETURN FOR 400 CU. IN. ENGINES (EXCEPT STATION WAGON)	1968		8	112
					10-19-67	J	ARMOR LENGTH REV.	J13	P73	7-27-67	D	TANK REV. TO DETAIL	J13	P73							DATE JANUARY 4, 1967				
					8-22-67	H	CLIP ADDED	J13	P73	7-12-67	C	REV. TO DETAIL	J13	P73							DR BY 130YER				
					3-8-67	G2	PART NO. REVISED	J13	P73	5-1-67	B2	35F35 OPT. CANCELLED	J13	P73							CHECKED/MB				
					8-8-67	F	VIEW ADDED	J13	P73	3-31-67	A	REVISED AND REDRAWN	J13	P73							APPR. J.P.	REF. 8A - 8B	SERIES A	PART NO. 398162	
																					35L77	35F35			

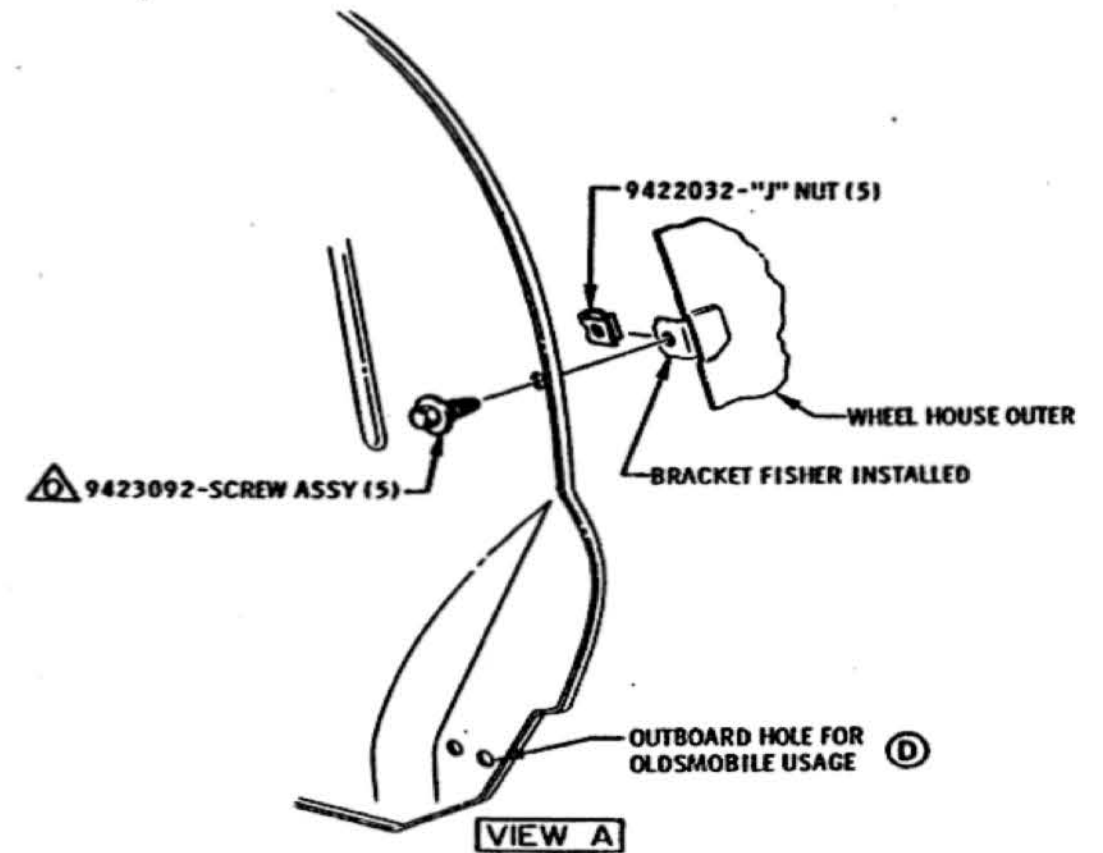
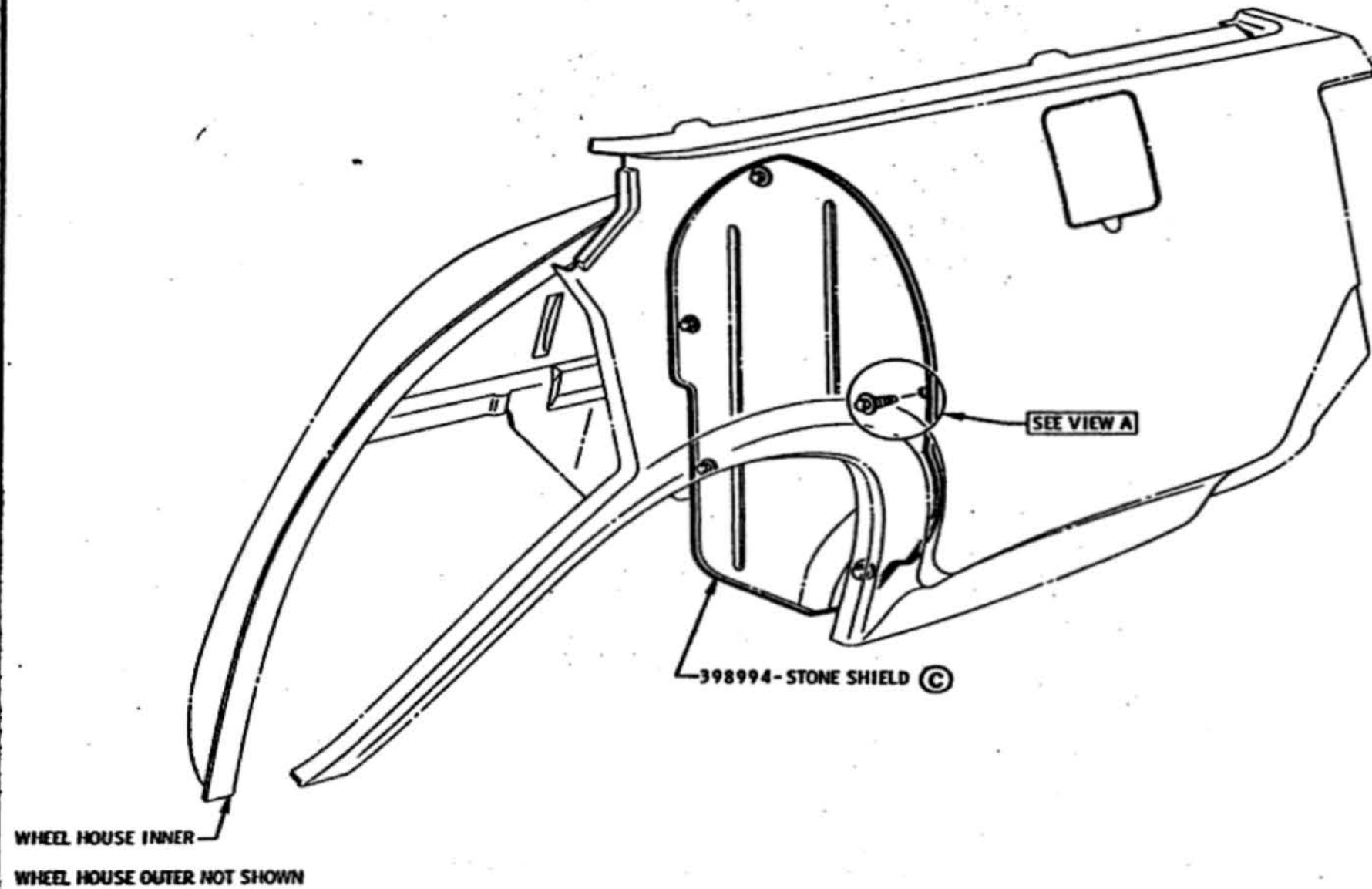


FOR BALANCE OF INFORMATION
SEE PAGE 111.

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
					8-22-67	E	CLIP ADDED	J13	PTB						FUEL SYSTEM - REGULAR STATION WAGON	1968		8	114
					8-8-67	D	VIEW ADDED	J13	PTB						DATE JANUARY 4, 1967				
					8-8-67	C	WAS 398748 PIPE ASSY	J13	PTB						DR. BY				
					8-8-67	B	NOTE ADDED	J13	PTB						CHECKED <i>MB</i>				
					10-19-67	F	ARMOR LENGTH REV.	J13	PTB	5-19-67	A	REVISED & REDRAWN	J13	PTB	APPR. <i>J.R. Leonard</i>				
															APPR. <i>W.A. Oils</i>				
																	SERIES	PART NO.	
																	A	398162	



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
					9-22-67	K	TORQUE ADDED	J13	PTB	5-25-67	E	REDRAWN NO CHG.	J13	PTB				FUEL LINE AND FUEL RETURN LINE EXTENDED WAGON				
1-18-68	N	PART NO.'S REVISED	J13	PTB	8-8-67	J	PART NO.'S. REVISED	J13	PTB	5-2-67	D3	PART NOS. ADDED	J13	PTB				DATE JANUARY 4, 1967	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
10-25-67	M	NOTE REVISED	CK	PTB	8-8-67	H	VIEW ADDED	J13	PTB	5-2-67	C	3 WAS 5	J13	PTB				DR. BY BOYER	1968		8	115
10-19-67	L	ARMOR LENGTH REV.	J13	PTB	7-12-67	F	LOOM ADDED	J13	PTB	3-28-67	A	REDRAWN & REVISED	J13	PTB				CHECKED <i>M. Barnhart</i>	REF. 88			
																		APPR. <i>J. E. Starnes</i>	35L65 - L77 - L78	SERIES	PART NO.	
																				A	398162	



⚠ 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
					8-8-67	D	NOTE ADDED	J13	PYS											FUEL TANK STONE SHIELD (STATION WAGONS)	1968		8	116
					7-26-67	C	REVISED TO DETAIL	J13	PYS											DATE JANUARY 3, 1967				
					6-30-67	B	TORQUE SPEC. ADDED	PR	PYS											DR. BY 130YER				
					3-27-67	A2	PART NOS. ADDED	JB	PYS											CHECKED <i>M. Barnhart</i>	REF. 8A			
																				APPR. <i>J. M. ...</i>		SERIES A	PART NO. 398162	

MODEL	GROUP	CROSS OVER PIPE ASSY	EXHAUST PIPE		MUFFLER ASSY		MUFFLER TO RESONATOR PIPE	RESONATOR ASSY	TAIL PIPE									
			R.H.	L.H.	R.H.	L.H.			R.H.	L.H.								
31-3500	8C			399590 (COUPE & CONV.) 399589 (EXC. COUPE & CONV.)		1384455 1382345 (OPT.) 1382344 (OPT.) 400024 (OPT.)				1384482 (EXC. S.W.) 400663 (S.W.)								
4800	35L69 35L77 35L78	399592	400026 (INTERMEDIATE)				401034	403025										
	8C										399591	400531						
32-3600	8C	382629								1382084 (EXC. S.W.) 1387769 (S.W.)								
4200	8C									399546 (COUPE & CONV.) 396658 (EXC. COUPE & CONV.)	1382346 1382347 (OPT.) 1384456 (OPT.)	399912	400025	399826				
4400	8C 35L65									402540 402710 OPT.	402541 402711 OPT.							
32-36-4200	35N11									399547 (COUPE & CONV.) 401155 (EXC. COUPE & CONV.)	1382346 1382347 (OPT.) 1384456 (OPT.)	402618	402619					
32-3600	35N10									403413 (COUPE & CONV.) 403411 (EXC. COUPE & CONV.)								
4200	35N10									1382184	1382353							

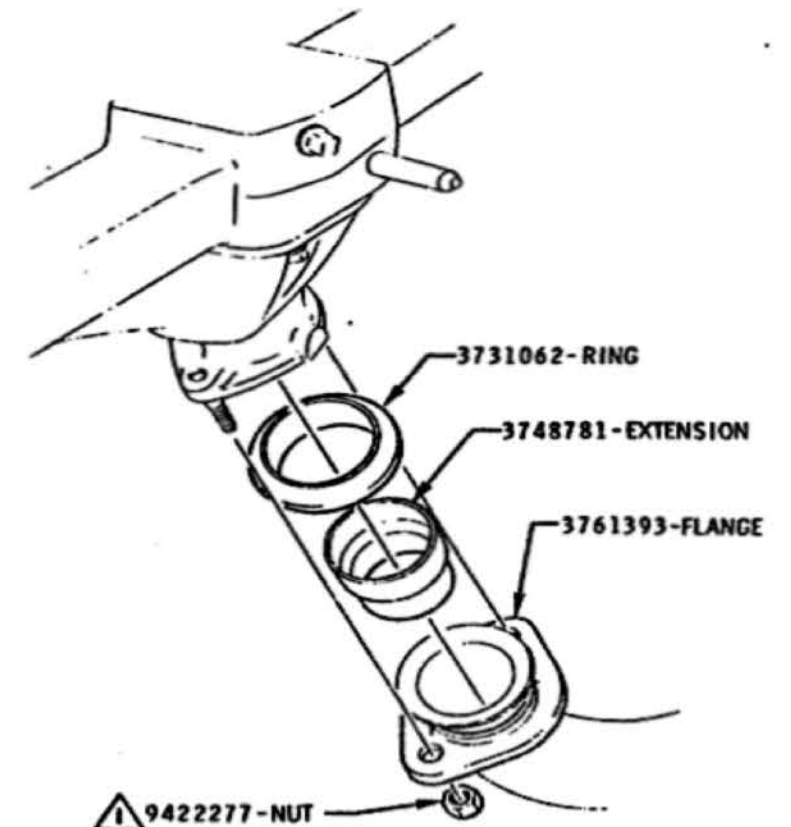


FIGURE 1
(L-6 ENGINE)

FLANGE-PART OF CROSSOVER PIPE ASSY ON 4800 WITH 400 CU. IN. ENGINE

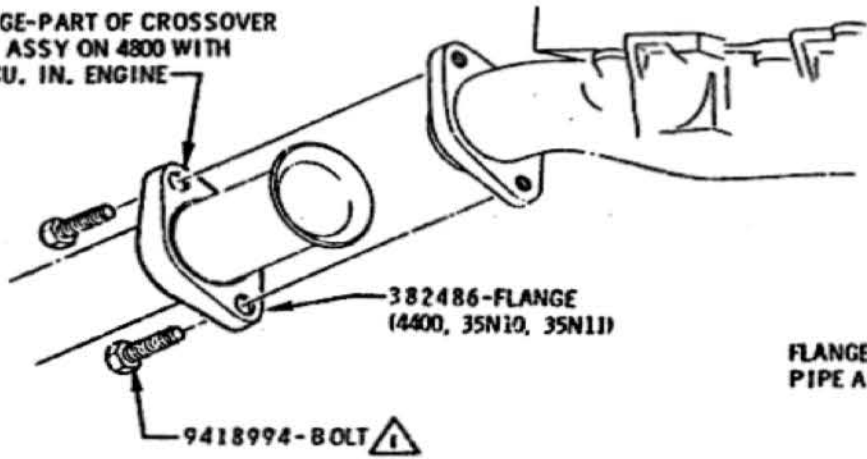


FIGURE 2
(R. H. SIDE)

FLANGE-PART OF PIPE ASSY (EXC. 35N10)

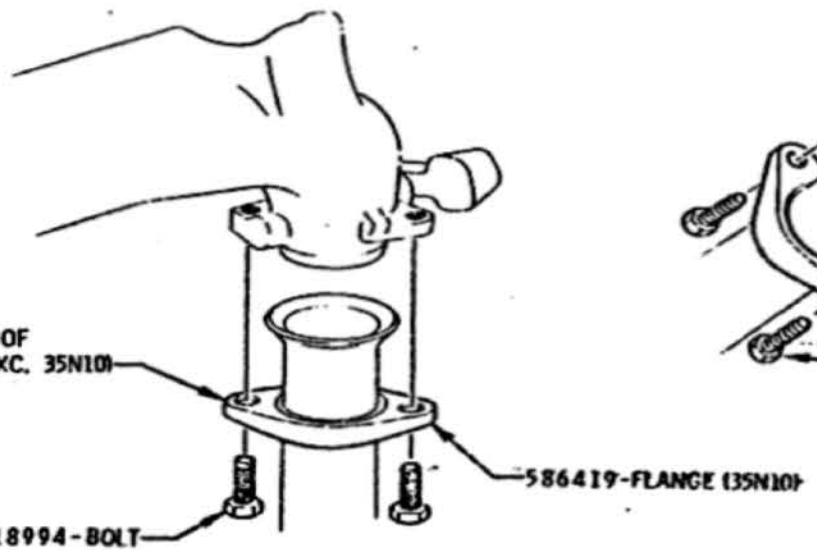


FIGURE 3
(L. H. SIDE)

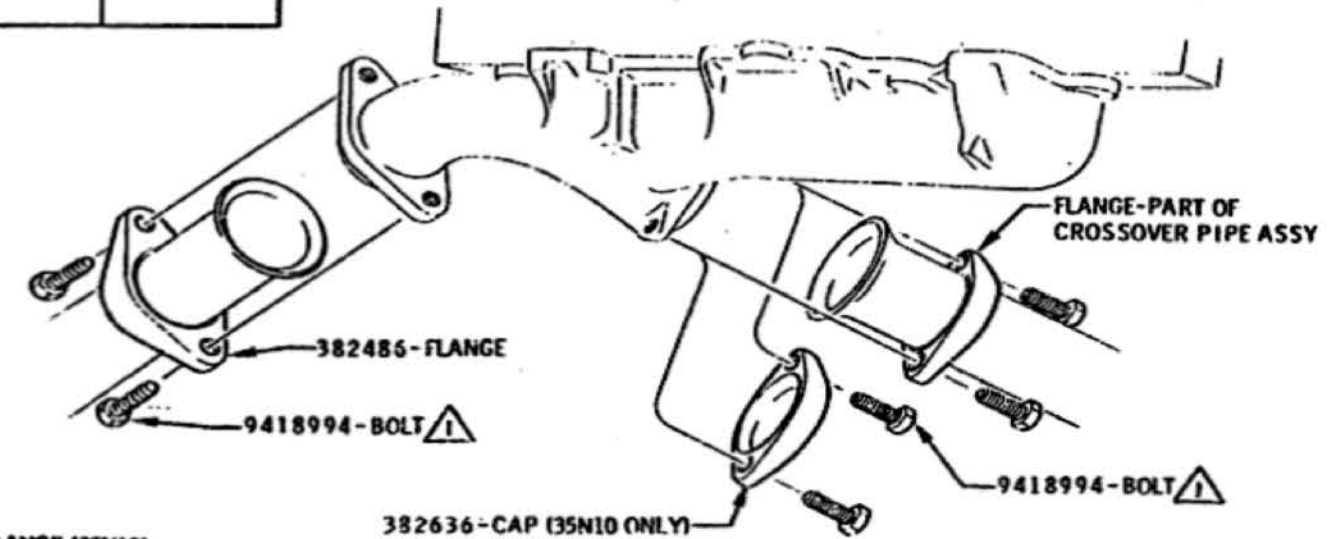
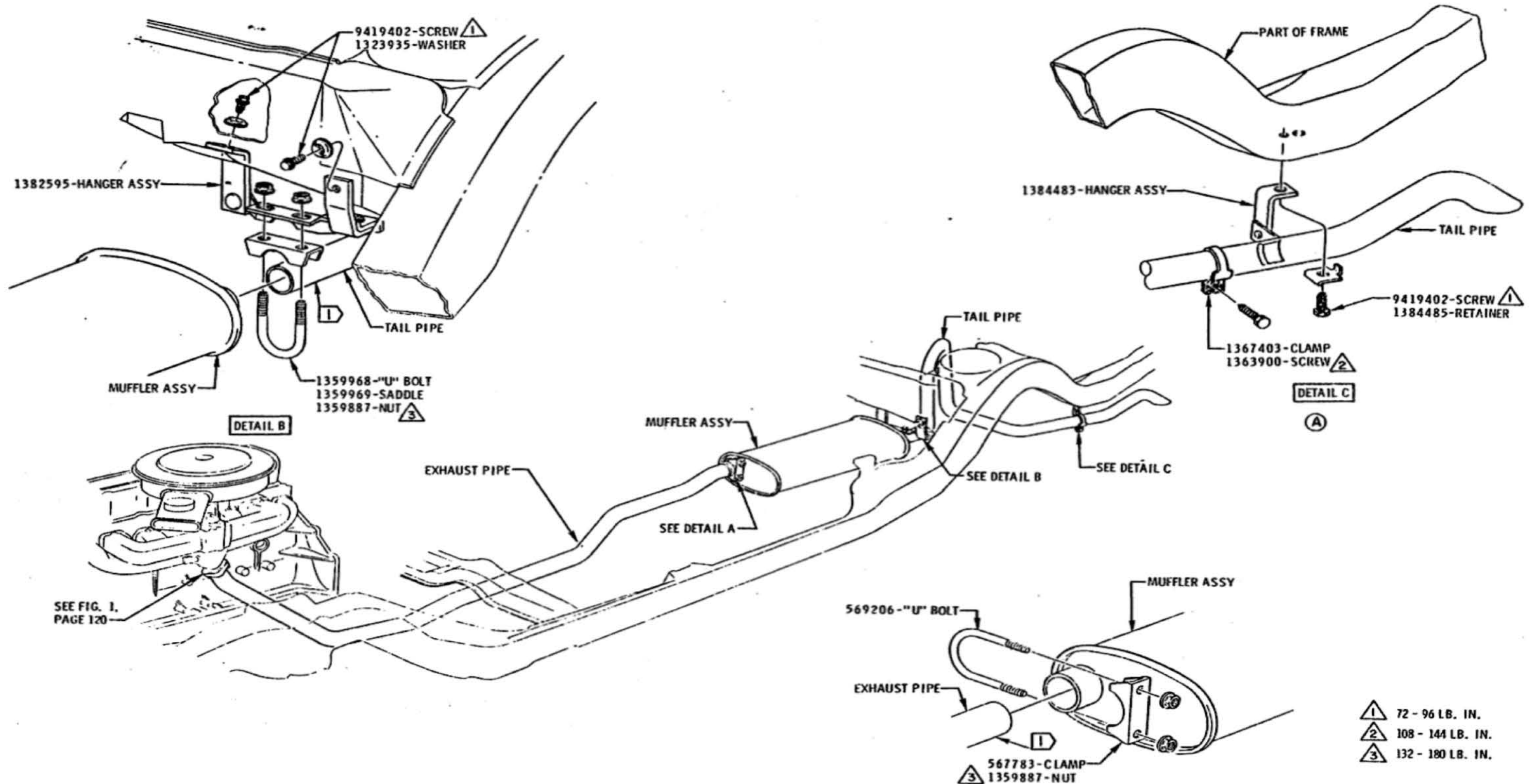


FIGURE 4
(R. H. SIDE)

10 - 18 LB. FT.

DATE	SYN	REVIS.	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	
					1-25-68	K	WAS 1384588	J13	MS	2-21-67	E2	NOTE REVISED											
					1-11-69	J	CHART REVISED	J13	MS	2-21-67	D	WAS 389465											
5-22-68	N	402710-11 OPT. ADDED	SA	MS	11-16-67	H	CHART REVISED	MS	MS	8-10-67	C	WAS 13829M											
2-17-68	M	WAS 399592 PIPE	MS	MS	11-10-67	G	402540-1 WAS 399548-9	MS	MS	4-5-67	B	PART NO. REMOVED											
2-17-68	L	WAS 391997 PIPE	MS	MS	7-20-67	F3	CHART REVISED	MS	MS	2-21-67	A	REVISED											

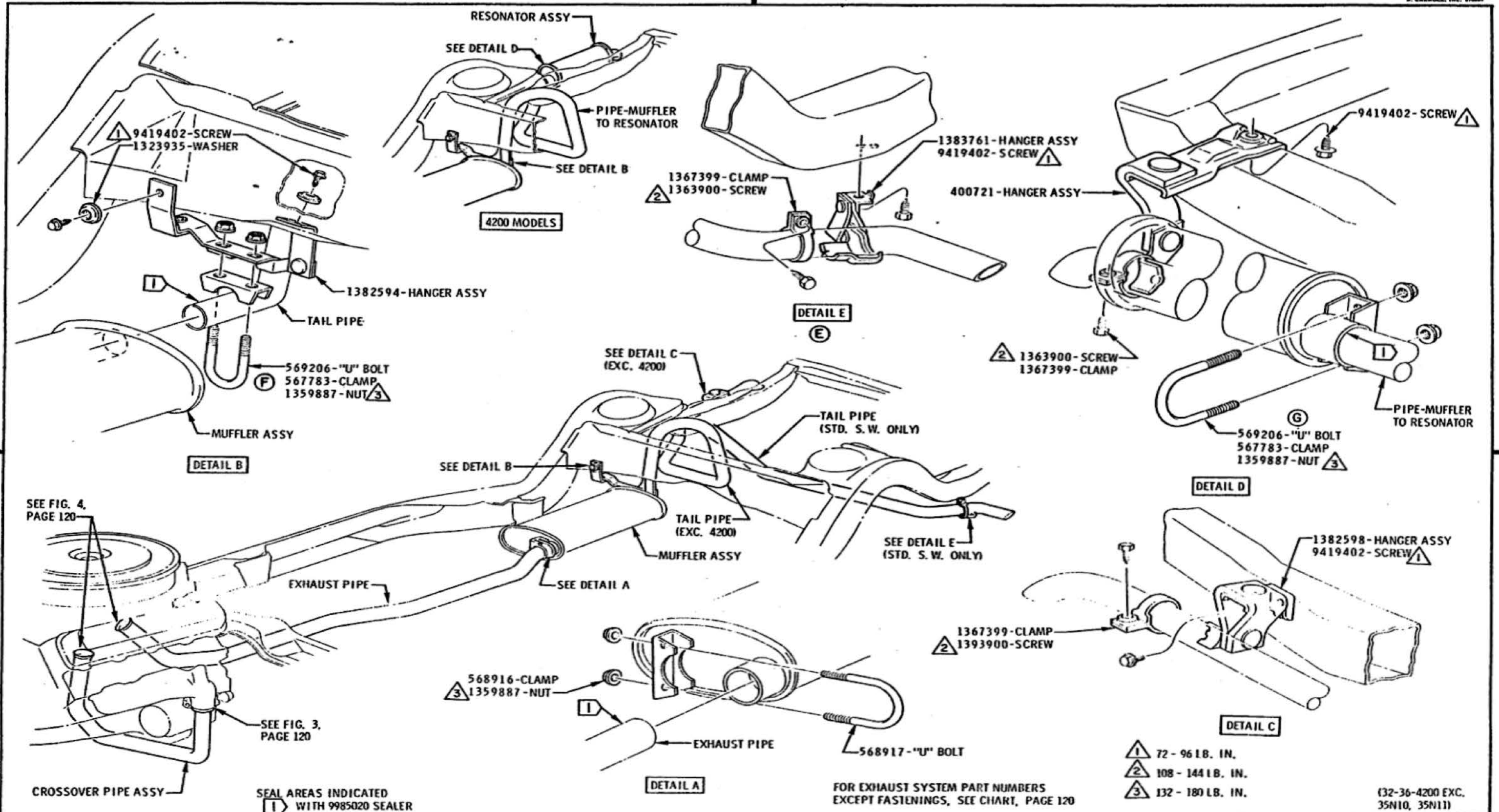
TITLE EXHAUST SYSTEM USAGE CHART & MANIFOLD FLANGES		FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 8	PAGE 120
DATE DECEMBER 27, 1966	DR. BY H.E. MASON	APPR. [Signature]	SERIES A	PART NO. 398162	



SEAL AREAS INDICATED
¹ WITH 9985020 SEALER

FOR EXHAUST SYSTEM PART NUMBERS
EXCEPT FASTENINGS, SEE CHART, PAGE 120

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																L-6 EXHAUST SYSTEM	1968		B	130
					2-21-67	A	VIEW ADDED													
																	SC	XE-83252	A	398162



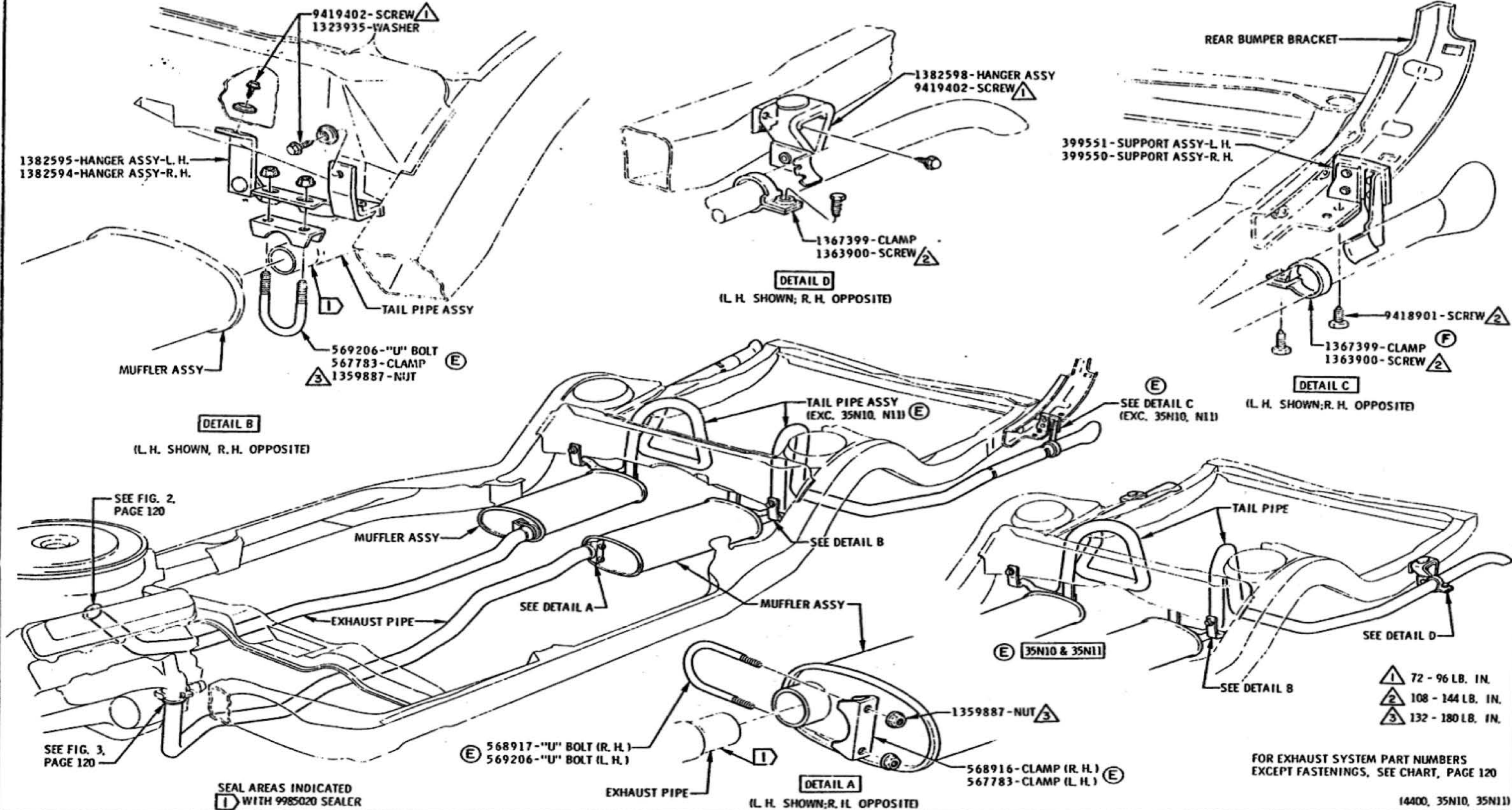
- 1 72 - 96 LB. IN.
- 2 108 - 144 LB. IN.
- 3 132 - 180 LB. IN.

FOR EXHAUST SYSTEM PART NUMBERS EXCEPT FASTENINGS, SEE CHART, PAGE 120

(32-36-4200 EXC. 35N10, 35N11)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE	
					4-10-67	E	VIEW ADDED									V-8 EXHAUST SYSTEM DATE DECEMBER 27, 1966 DR. BY A.F. MASON CHECKED MBarnhart APPR.	1968	DRFC-ALABAMA MANUAL SERIES A	8	131	
				4-6-67	D	WAS 1361731															
				4-5-67	C	VIEW ADDED															
				7-20-67	G	U BOLT ROTATED 90°															
				7-20-67	F	PART NUMBERS REVISED															

PART NO. 398162



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				
					7-20-67	E	USAGE REVISED									V-8 EXHAUST SYSTEM	1968	REF. 8C, 35C77, 35N10 XR-83253 XR-83251	SERIES A	PART NO. 398162				
				4-6-67	D	WAS 1361931									DATE DECEMBER 27, 1966						DR. BY W.E. MASON	8	132	
				3-7-67	C	REVISED TO DETAIL									CHECKED P/B Barnhart									
				2-21-67	B	VIEW ADDED																		
				11-10-67	F	WAS 136R195 CLAMP	J13	P/B		1-20-67	A	VIEW ADDED												

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

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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)

DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	TITLE	CHART -TAPE IDENTIFICATION (STEERING COLUMN)	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	
																		122167 Dg PART NOS. REVISED	DATE FEB. 11, 1967	1968		9	105	
																		32362 C 7803902 ADDED	DR. BY K. LOVELL					
																		32367 B 7803901 ADDED	CHECKED DON MALKIN					
																		32367 A WAS 7801814	APPR. J. L. [Signature]					
																			REF. [Signature]					
																					SERIES A - BC - E	PART NO. 400589		

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					SERIES		ABCE		PART NO.		400221			
APPR.					R. J.					REF.									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.				

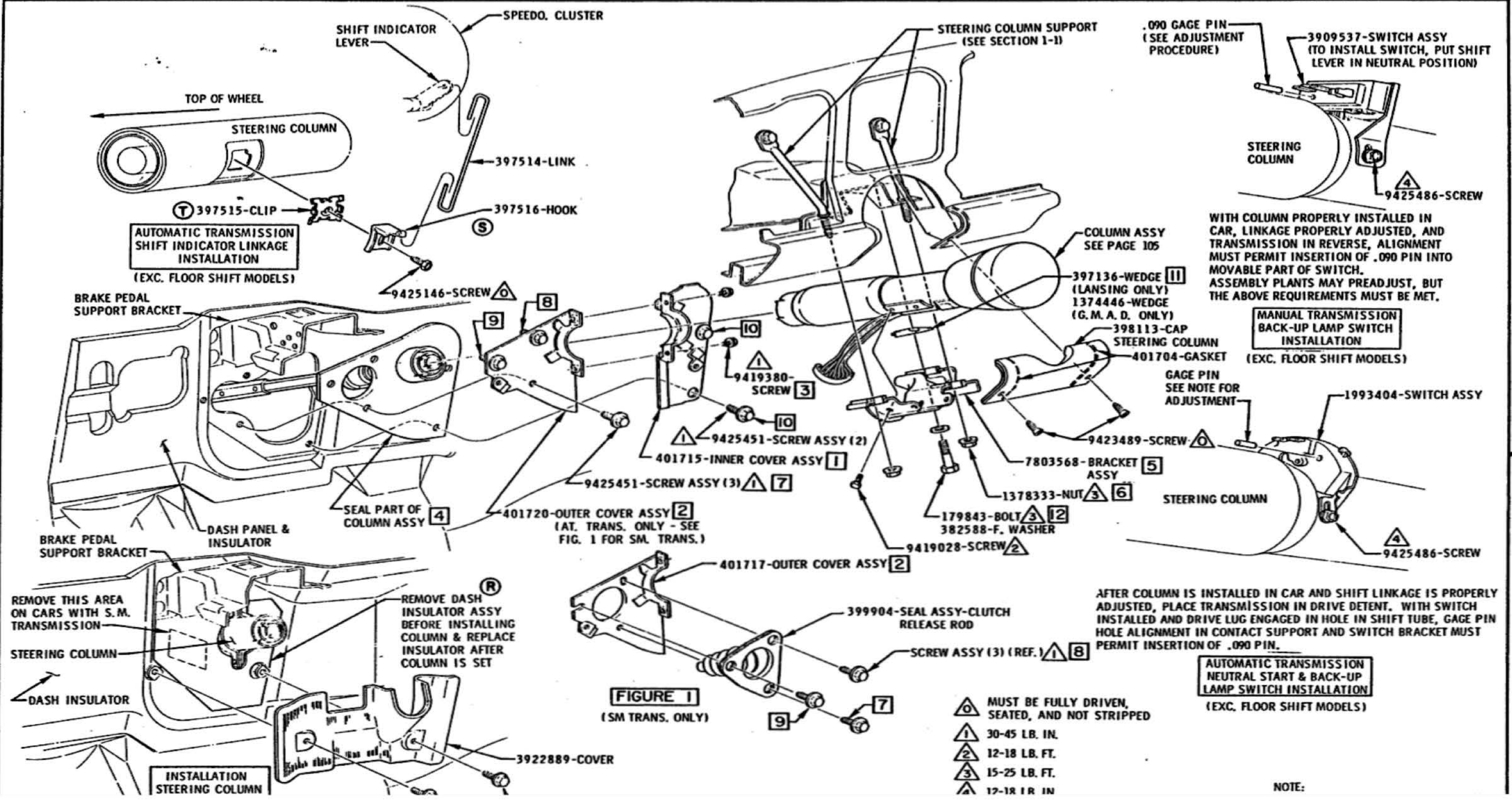
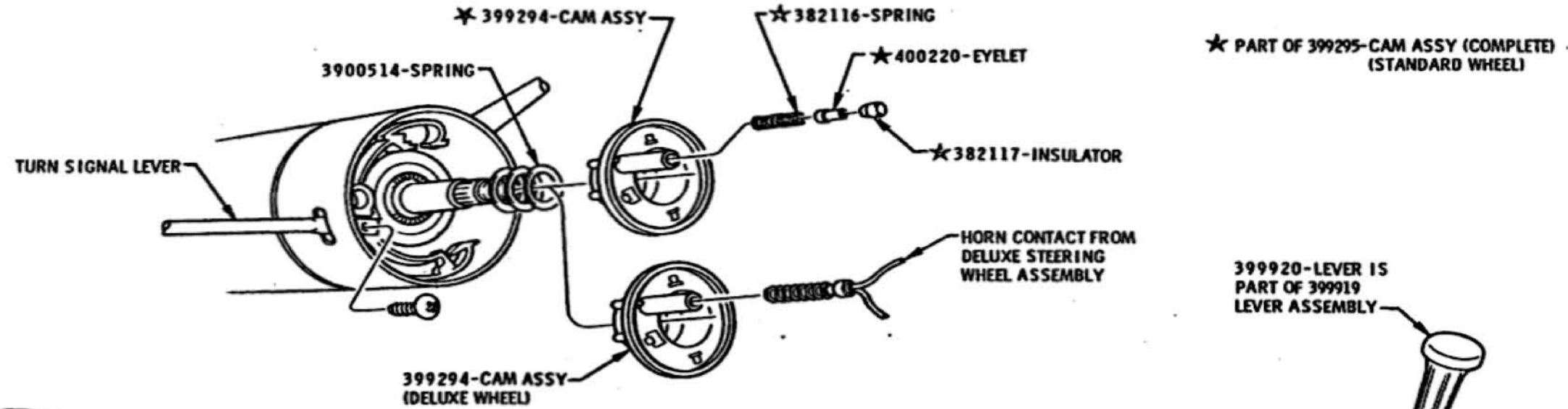


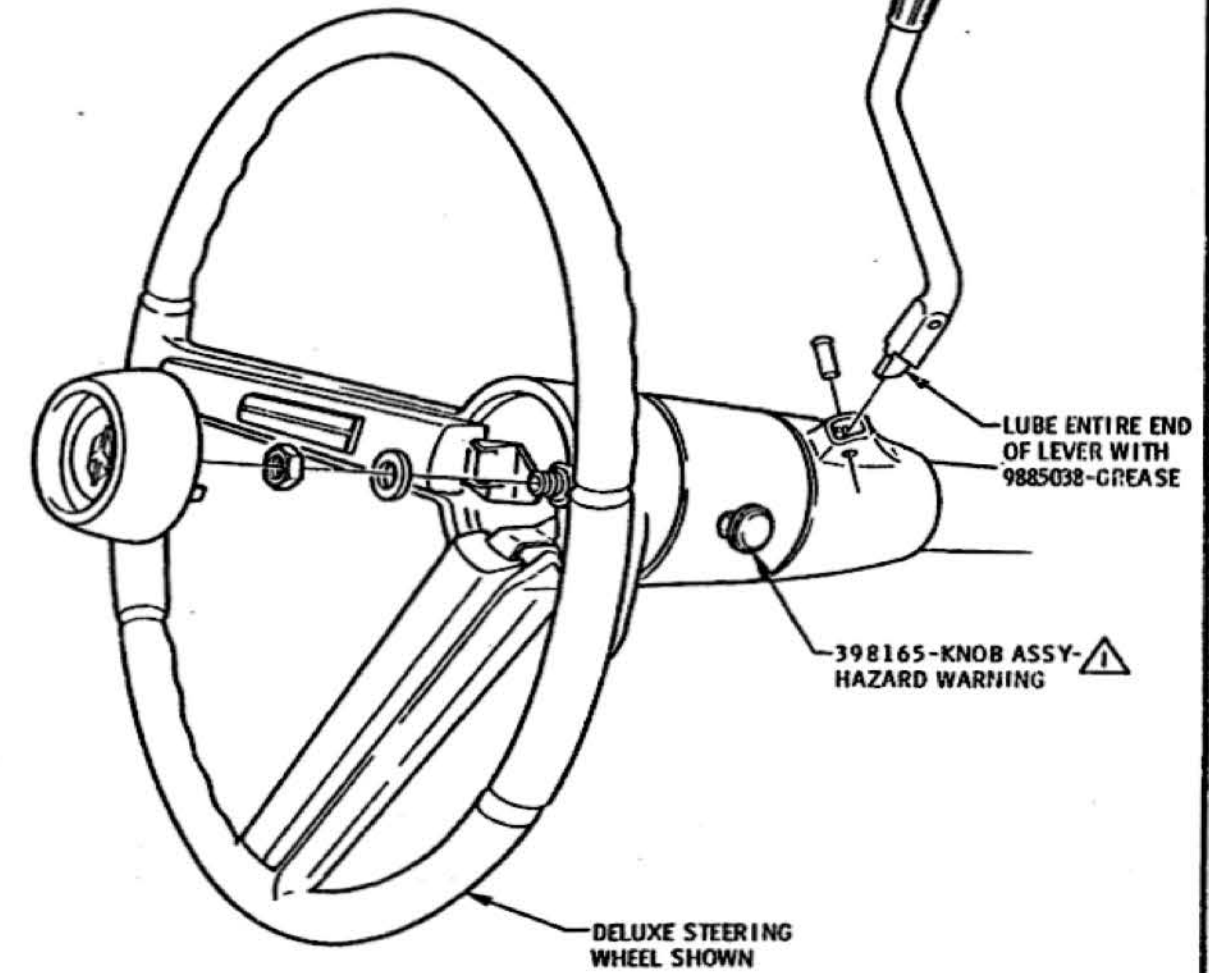
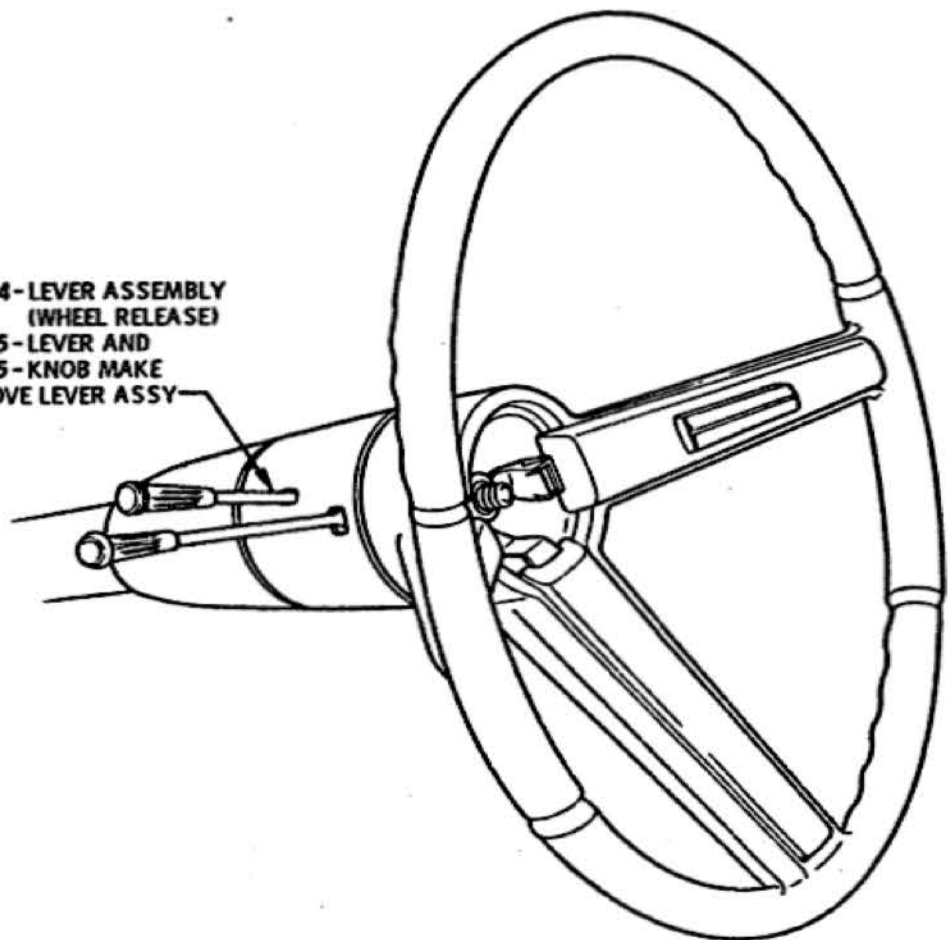
FIGURE 1
(SM TRANS. ONLY)

- 0** MUST BE FULLY DRIVEN, SEATED, AND NOT STRIPPED
- 1** 30-45 LB. IN.
- 2** 12-18 LB. FT.
- 3** 15-25 LB. FT.
- 4** 12-18 IN IN



**TURN SIGNAL CANCELING
CAM INSTALLATION**

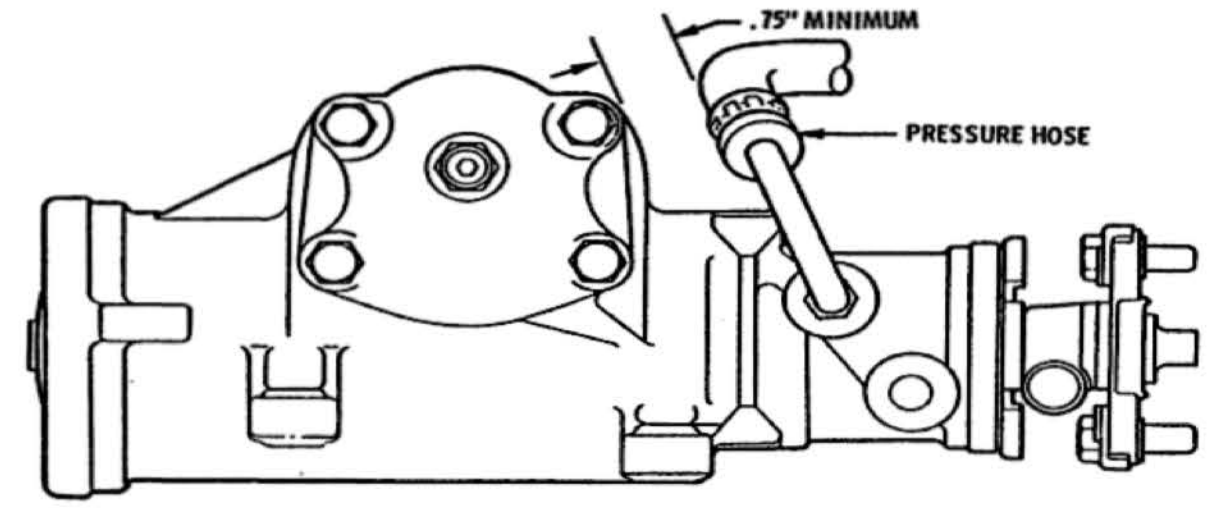
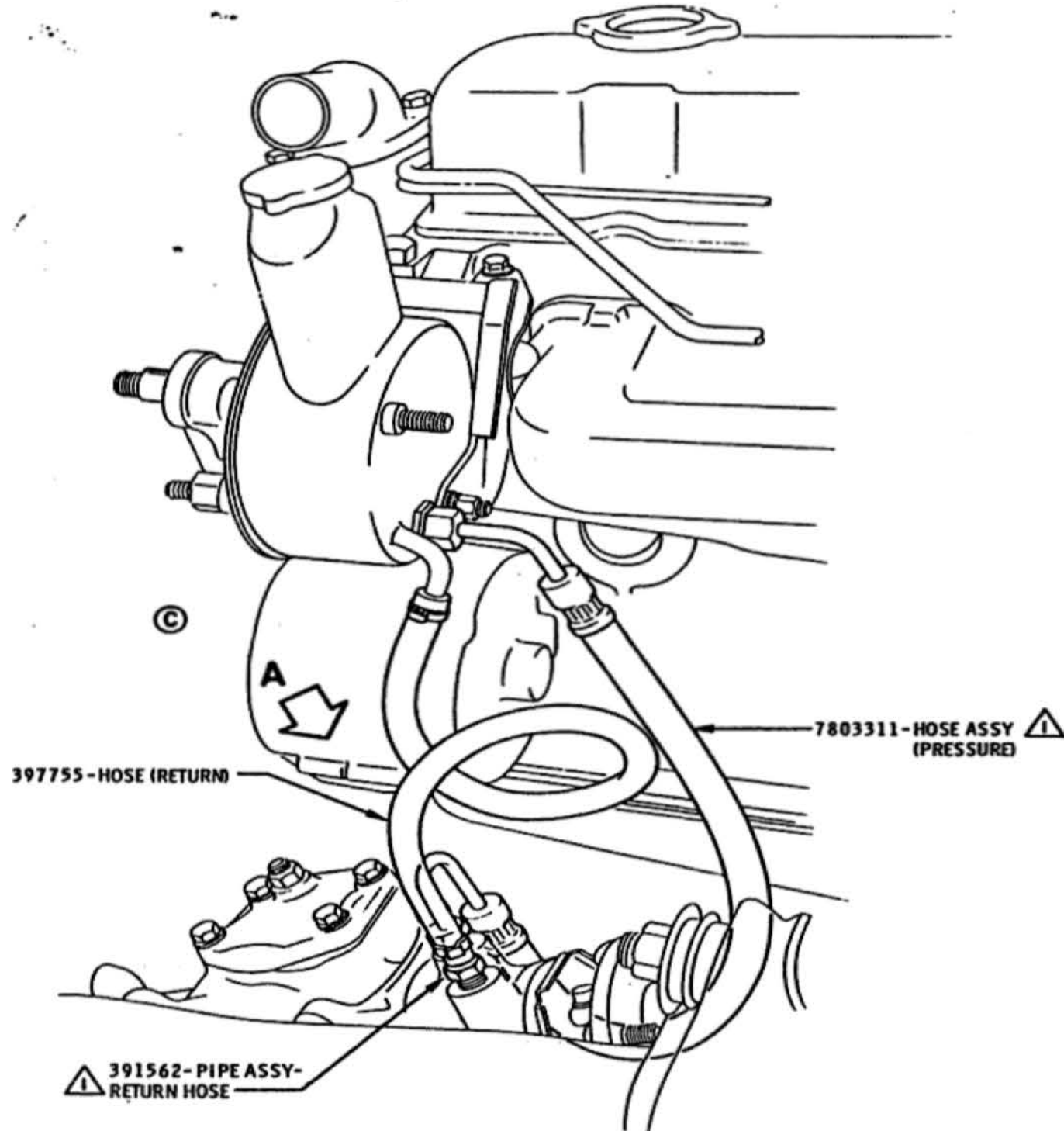
2 395604-LEVER ASSEMBLY (WHEEL RELEASE)
395605-LEVER AND
395125-KNOB MAKE
UP ABOVE LEVER ASSY



2 30-40 LB. IN.
1 3-5 LB. IN.

(A)
NOTE
BALANCE OF PARTS AND INSTALLATION
SAME AS SHOWN ON PAGE 115 & 116.

REVISIONS										TITLE				
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
										TILT WHEEL & LEVERS	1968		9	120
					7-12-67	B	TORQUE ADDED	J3	P73	CHECKED <i>[Signature]</i>	REF. 35N33			
					6-23-67	A	NOTE REVISED	CKP/B	APPR. <i>[Signature]</i>					
										APPR. <i>[Signature]</i>				
												SERIES A	PART NO. 398162	

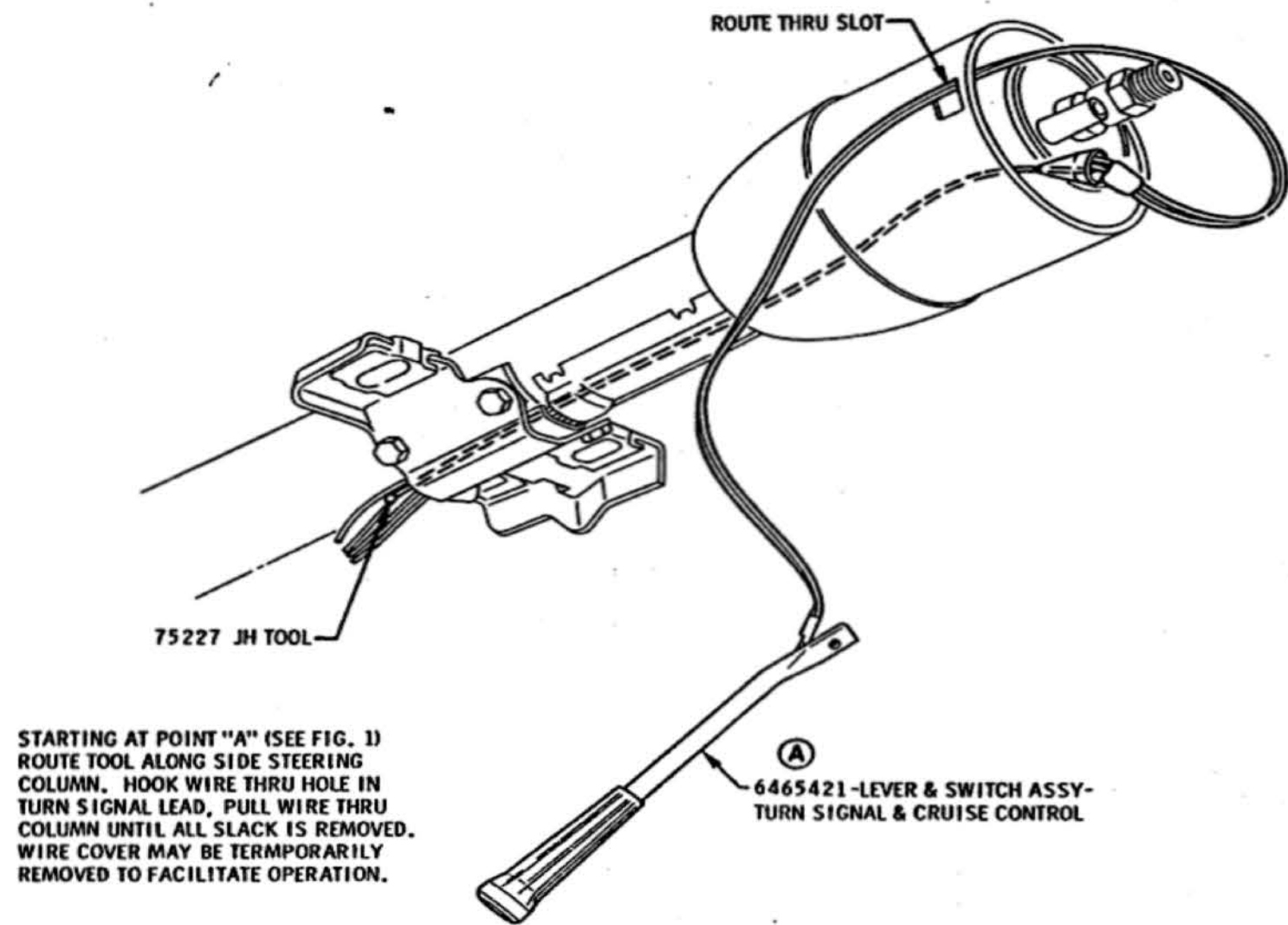


(B) VIEW A

⚠ 30 - 40 LB. FT.

FOR BALANCE OF INFORMATION
SEE V-8 STEERING GEAR PAGE 125.

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
					10-11-67	D	TORQUE ADDED																		
					10-3-67	C	BACKGROUND REV.															1968		9	126
					5-25-67	B	VIEW ADDED																		
					5-1-67	A	391562-PIPE ASSY ADDED																		
																						REF. 35N40	SERIES A	PART NO. 398162	



STARTING AT POINT "A" (SEE FIG. 1) ROUTE TOOL ALONG SIDE STEERING COLUMN. HOOK WIRE THRU HOLE IN TURN SIGNAL LEAD, PULL WIRE THRU COLUMN UNTIL ALL SLACK IS REMOVED. WIRE COVER MAY BE TEMPORARILY REMOVED TO FACILITATE OPERATION.

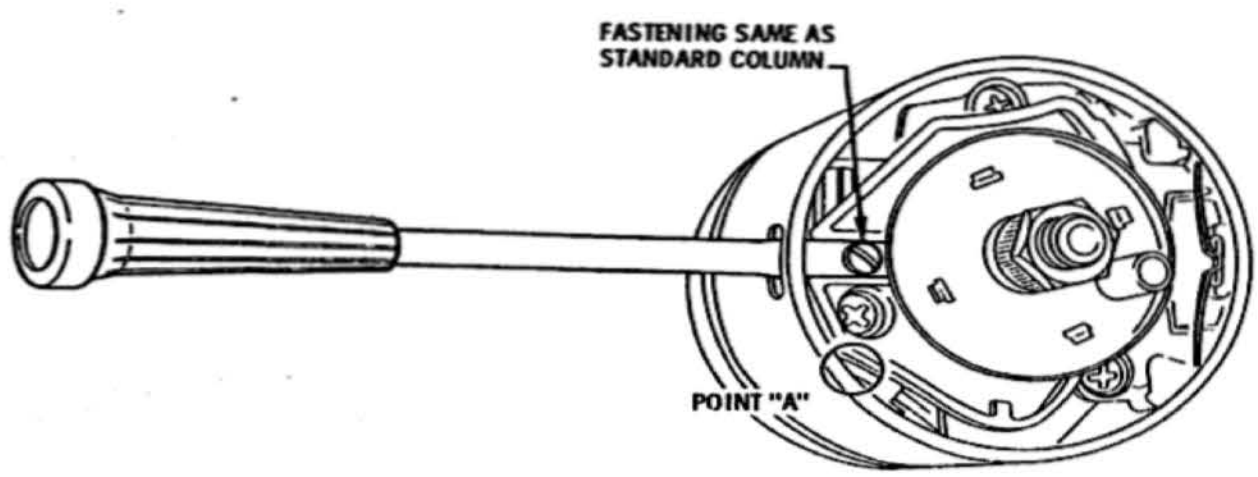


FIGURE 1

CRUISE CONTROL SWITCH INSTALLATION

										TITLE		CRUISE CONTROL LEVER & SWITCH ASSY	
										DATE		MARCH 30, 1967	
										DR. BY		W.E. MASON	
										CHECKED		M.J. Barnhart	
										APPR.		REF. 35K30	
										SERIES		A	
										PART NO.		398162	
										MANUAL SECTION		9	
										PAGE		350	
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.	
						7-31-67	A	WAS 6465274					

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

D. GARNER, INC. 1967

SERIES	EXPORT OPTION		DOMESTIC OR EXPORT							
	W32	P16	PT2	PE1	NP81	P28	P26	N81	N63	STD.
33169	--	17	19	18	--	16	15	--	--	10
33177	--	17	19	18	--	16	15	--	--	10
33269	11	17	19	18	--	16	15	--	--	10
33277	11	17	19	18	--	16	15	--	--	10
33535	--	17	19	18	--	16	15	--	--	10
33539	--	17	19	18	--	16	15	--	--	10
33569	--	17	19	18	--	16	15	--	--	10
33577	--	17	19	18	--	16	15	12	--	10
33587	--	17	19	18	--	16	15	12	--	10
33567	--	17	19	18	--	--	15	12	--	10
33639	11	17	19	18	--	16	15	--	--	10
33669	11	17	19	18	--	16	15	--	--	10
33677	11	17	19	18	--	16	15	12	--	10
33687	11	17	19	18	--	16	15	12	--	10
33635	--	17	19	18	--	16	15	--	--	10
33667	11	17	19	18	--	--	15	12	--	10
34239	11	17	19	18	--	16	15	--	--	10
34269	11	17	19	18	--	16	15	--	--	10
34287	11	17	19	18	--	16	15	--	--	10
34467	11	17	★19	--	13	--	--	--	11	12
34477	11	17	★19	--	13	--	--	--	11	12
34487	11	17	★19	--	13	--	--	--	11	12
34855	--	27	19	28	--	--	25	--	--	20
34865	--	27	19	28	--	--	25	--	--	20

N63 IS WHITE STRIPE TIRE, 14" NYLON CORD
 N81 IS WIDE OVAL RED STRIPE TIRE (F70 X 14)
 P16 IS EXPORT OPTION TIRE
 P26 IS WHITEWALL TIRES
 P28 IS 15" WHEEL & TIRE - B/W
 P81 IS FIBERGLASS BELTED RED STRIPE
 PE1 IS 8-PLY 7.75 X 14 OR 8.25 X 14 TIRES
 PT2 IS 205 R14 RADIAL PLY - WHITEWALL TIRE
 ★ (AVAILABLE ON 34400 SERIES ONLY
 WHEN L65 ENGINE OPTION IS ORDERED)
 W32 IS EXPORT WHEEL & TIRE OPTION
 (7.75 X 14 WHITE STRIPE)
 (TIRE UNIT IS SAME AS 35N63 OPTION)

-- INDICATES THAT THE CONDITIONS SHOWN
 ARE NOT AVAILABLE.

CODE	PART NUMBERS				TIRE SIZE	WALL COLOR
	UNIROYAL	FIRESTONE	GOODRICH	GOODYEAR		
10	3908881	3937862	3908883	3908882	7.75 X 14	BLACK
11	3901717	3901716		3901718	7.75 X 14	WHITE
12		(M) 3931478		3931480	F70 X 14	RED
13				3950123	F70 X 14	RED
15	3908891	3937864	3908893	3908892	7.75 X 14	WHITE
16		1371502			7.75 X 15	BLACK
17				397737	7.75 X 14	WHITE
18	3883536		3883538		7.75 X 14	WHITE
19	398825		398827	398828	205 R14	WHITE
20				397404	8.25 X 14	BLACK
25				397409	8.25 X 14	WHITE
27				397738	8.25 X 14	WHITE
28				393888	8.25 X 14	WHITE

BLACKWALL

10 - 7.75 X 14
 16 - 7.75 X 15
 20 - 8.25 X 14

WHITEWALL

15 - 7.75 X 14
 25 - 8.25 X 14

SPECIAL TIRES

11 - 7.75 X 14 WHITE STRIPE
 12 - F70 X 14 WIDE OVAL RED STRIPE
 13 - F70 X 14 FIBERGLASS BELTED TIRE (RED STRIPE)
 17 - 7.75 X 14 4-PLY CUSTOM POWER CUSHION
 18 - 7.75 X 14 4-PLY 8-PLY RATING TIRES
 19 - 205 R14 RADIAL PLY - WHITEWALL
 27 - 8.25 X 14 4-PLY CUSTOM POWER CUSHION
 28 - 8.25 X 14 4-PLY 8-PLY RATING TIRES

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.

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 390000, 397400, 397737,
 397738, 399584, 1371452, 3884014 AND 3904314 WHEN REQUIRED.

CHART - TIRE USAGE																								
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
					12-21-67	K	WAS 3908890	CG	FW	7-30-67	E2	NBI INFORMATION ADDED	CG	FW	5-9-67	D	WAS 3883528	CG	FW	DATE FEB 11, 1967	1968		10	100
6-10-68	N	P81 ADDED	RM	JA	12-16-67	H	WAS 3909671	KL	JA	5-9-67	C	WAS 3867663	KL	JA	5-9-67	B	PART NOS ADDED	KL	JA	DR. BY D.J. SCOTT				
5-24-68	M	WAS 3928200	RM	JA	11-7-67	G	WAS 3909673	KL	JA	5-9-67	B	PART NOS ADDED	KL	JA	5-9-67	A	TIRE ADDED	KL	JA	CHECKED DON MALKIN				
3-25-68	L2	PART NOS REMOVED	CG	FW	9-29-67	F	REVISED	KL	JA	5-9-67	A	TIRE ADDED	KL	JA	5-9-67	A	TIRE ADDED	KL	JA	APPR. J.L. [Signature]				
																				REF.	SERIES	PART NO.		
																					A	398289		

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				

										3-1-68 E 9792462 REMOVED		B J F		TITLE		CHART - WHEEL USAGE									
										3-1-68 D 9791450 REMOVED		B J F		DATE AUG. 10, 1967		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE					
										3-1-68 C WTS CODE LH		B J F		DR BY DON MALIN		1968		INFORMATION MANUAL		10 105					
										10-6-68 B 900908 REMOVED		J S J		CHECKED J. Pines		REF.		SERIES		PART NO.					
										3-1-67 A GRP. JLG REMOVED		KL J		APPR. J. Pines		ABCE		401818							
DATE	SYM	REVISION			DR	CK	DATE	SYM	REVISION			DR	CK	DATE	SYM	REVISION			DR	CK	DATE	SYM	REVISION		

SERIES	EXPORT OPTION		DOMESTIC OR EXPORT									STD.
	W32	P16	W29 & N63	W29	W28 & PR5	W28	T17	T15	P28	P26		
33307 33335 33369	--	PF	--	--	--	--	--	PE	IY	PR	CR	
33407 33449	XY	PF	--	--	--	--	--	PE	IY	PR	CR	
33435	--	PF	--	--	--	--	--	PE	IY	PR	CR	
33465	--	RF	--	--	--	--	RE	--	--	RR	DR	
33517 33535 33539 33569	--	PF	--	--	--	--	--	PE	IY	PR	CR	
33567	--	PF	--	--	--	--	--	PE	--	PR	CR	
33617 33639 33669	XY	PF	--	--	--	--	--	PE	IY	PR	CR	
33667	XY	PF	--	--	--	--	--	PE	--	PR	CR	
33635	--	PF	--	--	--	--	--	PE	IY	PR	CR	
33807 33817	XY	PF	XY	WY	ZR	XY	--	PE	IY	PR	CR	
33867	XY	PF	XY	WY	ZR	XY	--	PE	--	PR	CR	
33839 33869	XY	PF	--	--	--	--	--	PE	IY	PR	CR	
33855 33865	--	RF	--	--	--	--	RE	--	--	RR	DR	

N63 IS WHITE STRIPE TIRE, 14" NYLON CORD
P16 IS EXPORT OPTION TIRE
P26 IS WHITEWALL TIRES
P28 IS 15" WHEEL & TIRE - B/W
PR5 IS RADIAL PLY TIRE
195 R14 WHITE RAYON
T15 IS 8-PLY 7.75 X 14 TIRES
T17 IS 8-PLY 8.25 X 14 TIRES
W28 IS TURNPIKE PACKAGE
W29 IS "442" PERFORMANCE OPTION
W32 IS EXPORT WHEEL & TIRE
OPTION (7.75 X 14 WHITE STRIPE)

-- INDICATES THAT THE CONDITIONS SHOWN ARE NOT AVAILABLE.

& INDICATES TOGETHER WITH OPTION SHOWN.

CODE	PART NUMBERS				TIRE SIZE	PLY		WALL COLOR	CORD TYPE
	U. S. ROYAL	FIRESTONE	GOODRICH	GOODYEAR		ACTUAL	RATING		
CR	3908881	3908880	(R) 3908883	3908882	7.75 X 14	2	4	BLACK	RAYON
DR	397401	397402	390003	397404	8.25 X 14	2	4	BLACK	RAYON
IY		1371502			7.75 X 15	4	4	BLACK	NYLON
PE	3883536		3883538		7.75 X 14	4	8	WHITE	RAYON
(M) PF				397737	7.75 X 14	4	*	WHITE	NYLON
PR	3908891	3908890	(S) 3908893	3908892	7.75 X 14	2	4	WHITE	RAYON
RF				393888	8.25 X 14	4	8	WHITE	RAYON
(M) RF				397738	8.25 X 14	4	*	WHITE	NYLON
RR	397406	397407	392102	397409	8.25 X 14	2	4	WHITE	RAYON
WY		3909671		3909673	F70 X 14	2	4	RED	NYLON
XY	3901717	3901716		3901718	7.75 X 14	2	4	WHITE	NYLON
ZR	398998				195 R14			WHITE	RAYON

(N) TIRE CODE:
FIRST LETTER DETERMINES TIRE SIZE & WALL COLOR.
SECOND LETTER DETERMINES PLY OR CORD TYPE.

R - RAYON
Y - NYLON
E - 4-PLY 8-PLY RATING TIRES
F - 4-PLY CUSTOM POWER CUSHION TIRES
* - NO PLY-RATING IS MOULDED ON TIRE SIDE WALL.

WHITEWALL

P - 7.75 X 14
R - 8.25 X 14
W - SPECIAL TIRES
F70 X 14 WIDE
OVAL RED STRIPE
X - SPECIAL TIRES
7.75 X 14 WHITE STRIPE
Z - 195 R14 RADIAL PLY

BLACKWALL

C - 7.75 X 14
D - 8.25 X 14
I - 7.75 X 15

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, PLY, COLOR AND TYPE OF TIRE FOR THAT CODE.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	CHART-TIRE USAGE	MANUAL SECTION	PAGE
5-8-67	S	WAS 3883538			9-2-66	L	PR5 TIRE OPTION ADDED																
5-8-67	R	WAS 3867669			9-2-66	K	3909673 GOODYEAR ADDED																
1-26-67	P	PART NOS. REVISED			1-26-67	J	WAS RED STRIPE																
9-15-66	N	NOTE REVISED			9-15-66	H	REVISED																
9-15-66	M2	PLY RATING WAS 6			9-15-66	G	REVISED, WAS SHEET 1 OF 2																

CHART-TIRE USAGE

FIRST USED: 1967

OLDSMOBILE PRODUCT INFORMATION MANUAL

MANUAL SECTION: 10

PAGE: 1.13

SERIES: A

PART NO.: 396651

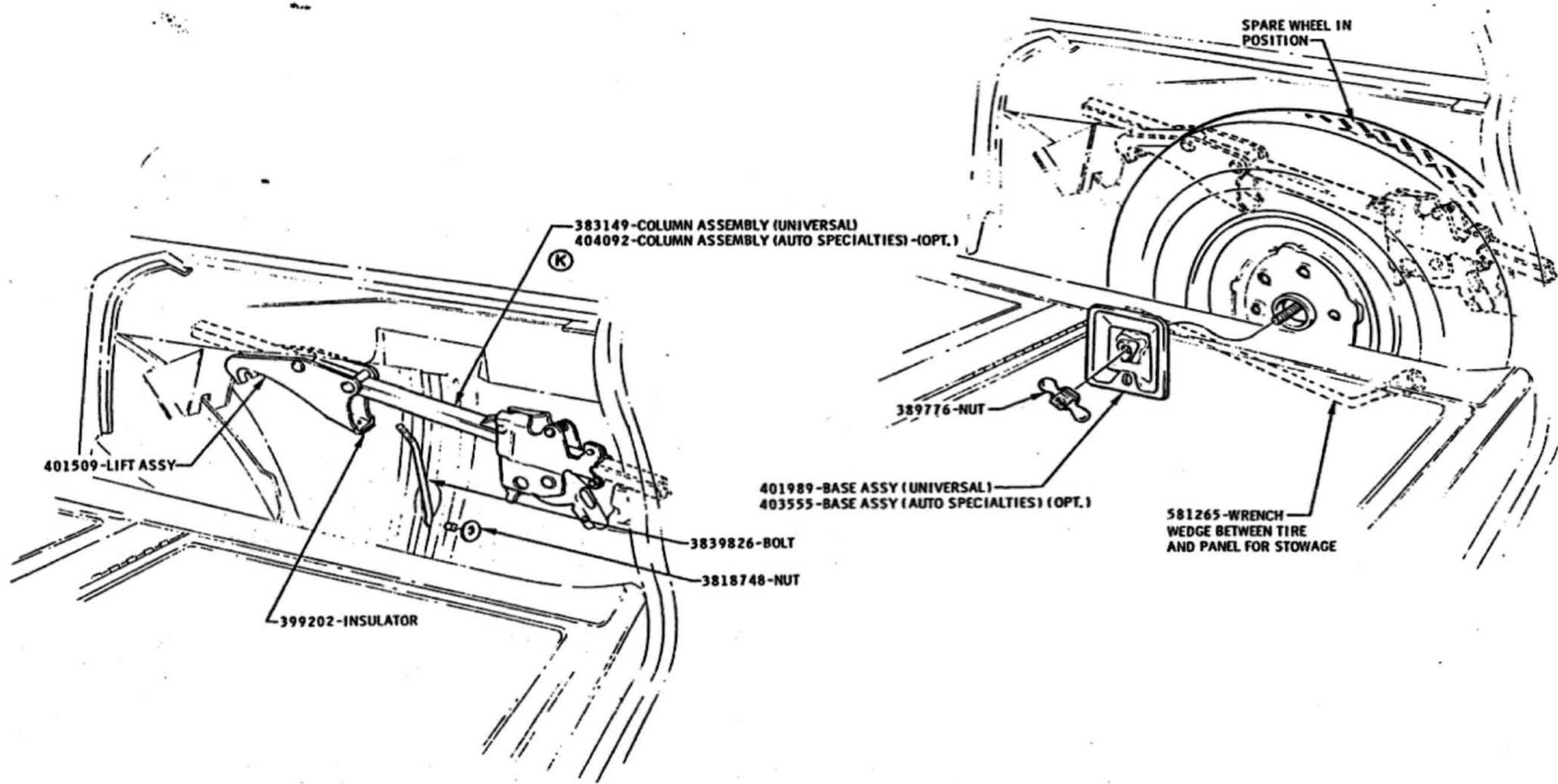
DATE: MARCH 7, 1966

DR. BY: J.E. CASLER

CHECKED: J.N. AMES

APPR. T.R. FERNAND

APPR. J.A. VOORHEIS

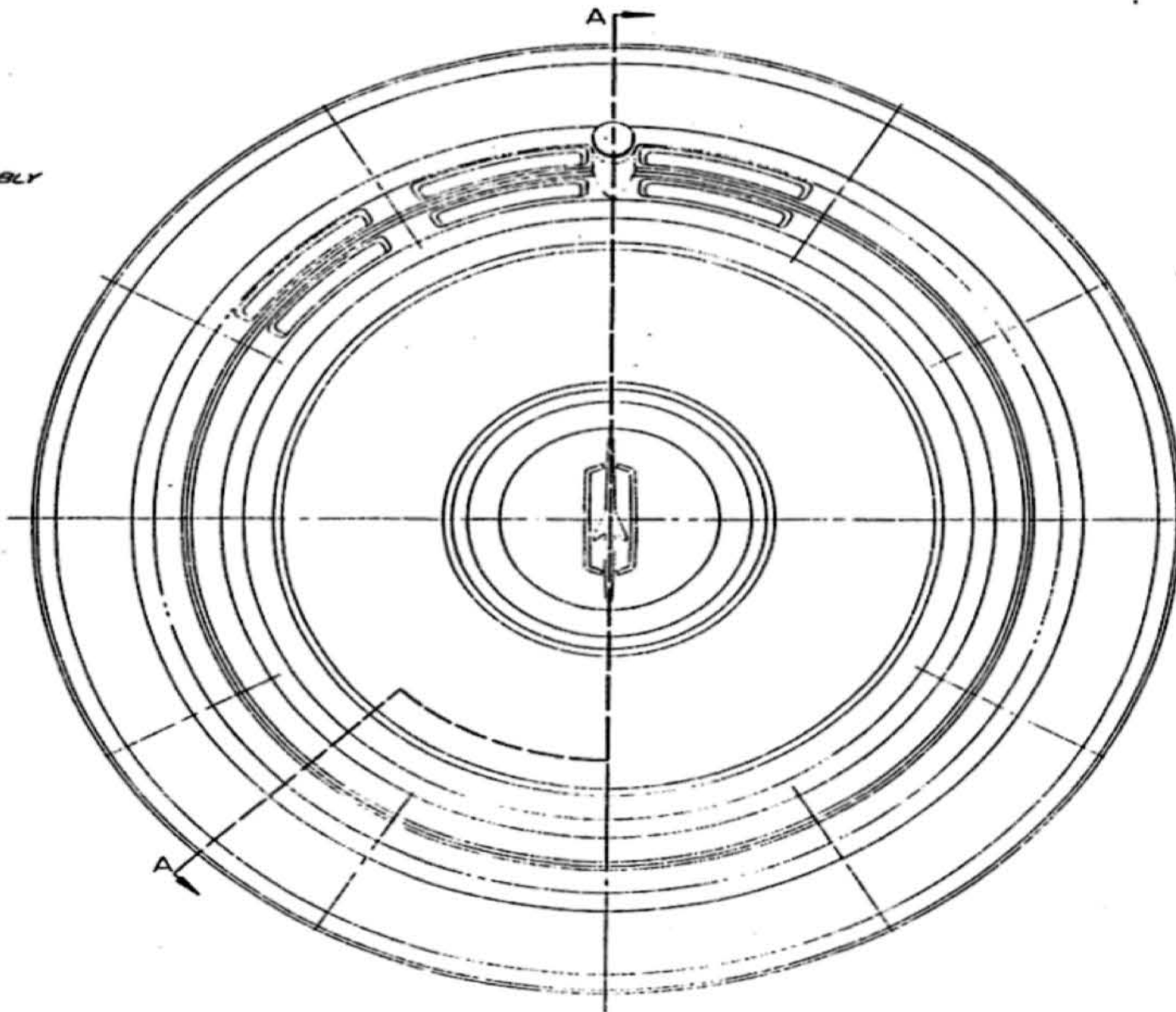
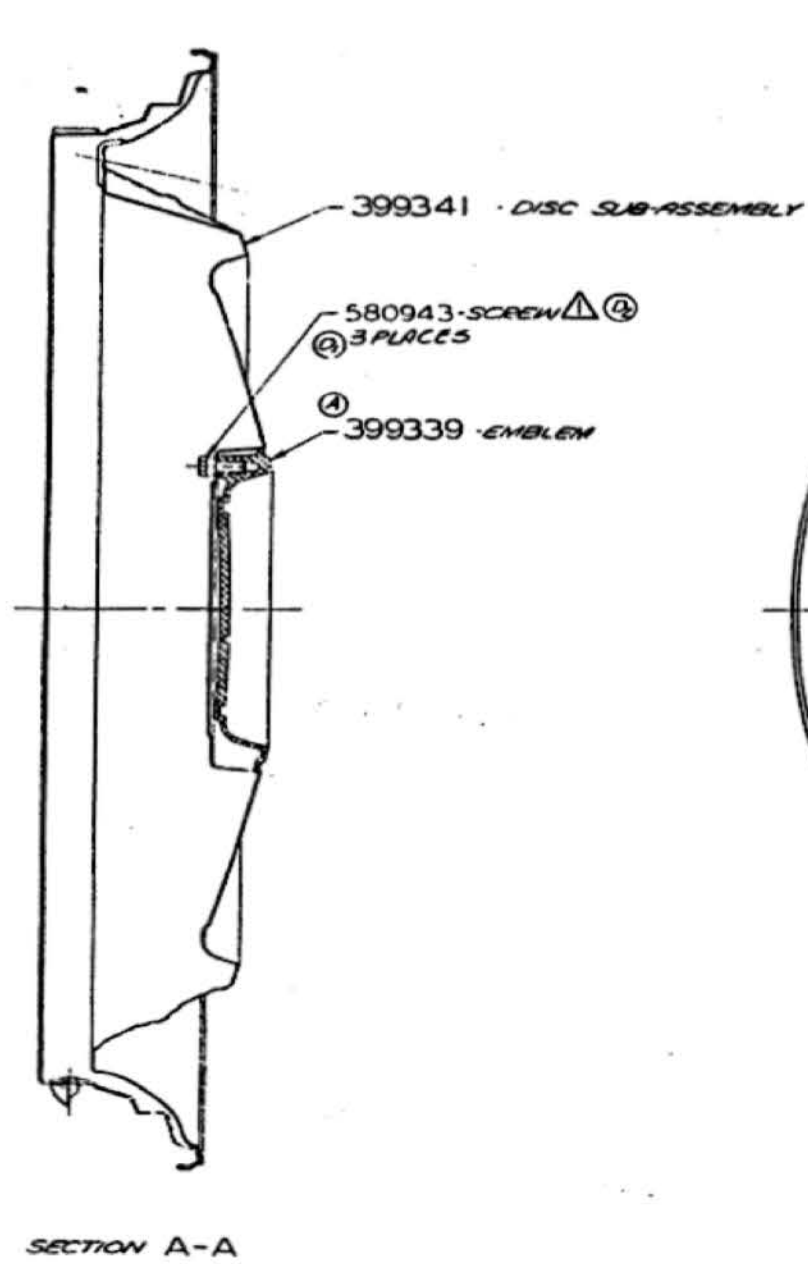


NOTE: "UP" & "DOWN" LEVER
ON JACK ASSY TO BE IN
"UP" POSITION WHEN JACK
IS STORED

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.		
					5-20-68	K	WAS 401830-COL. ASM	B.P.P.		9-19-67	E	WAS 588304-BASE ASSY	B.P.P.			SPARE WHEEL AND JACK STOWAGE (STATION WAGON)								
					5-15-68	J	REVISED & REDRAWN	B.P.P.		9-19-67	D	WAS 588367-BASE ASSY	B.P.P.											
					3-7-68	H	WAS 578882-BASE ASSY	B.P.P.		9-30-67	C	EXT. SW. PART NOS. ADDED	J.R.	DT		DATE MAR. 7, 1967	1968		10	116				
					1-11-68	G	BASE ASSY USAGE REV.	B.P.P.		8-22-67	B	NOTE REVISED	J.13	DT		DR. BY B.D. PARKER								
					1-11-68	F	COLUMN ASSY WEDGE REV.	B.P.P.		6-28-67	A	REVISED & REDRAWN	B.P.P.			CHECKED T.P.A.	REF. 10E 14E							
																APPR. J. Parker		A				398162		

OLDSMOBILE DIVISION
GENERAL MOTORS CORPORATION
LANSING, MICHIGAN

A-B I.C. WITH 55402



⊙ Δ 30-40 LB IN

②	SEC	PAGE
	10-	120

A IBC

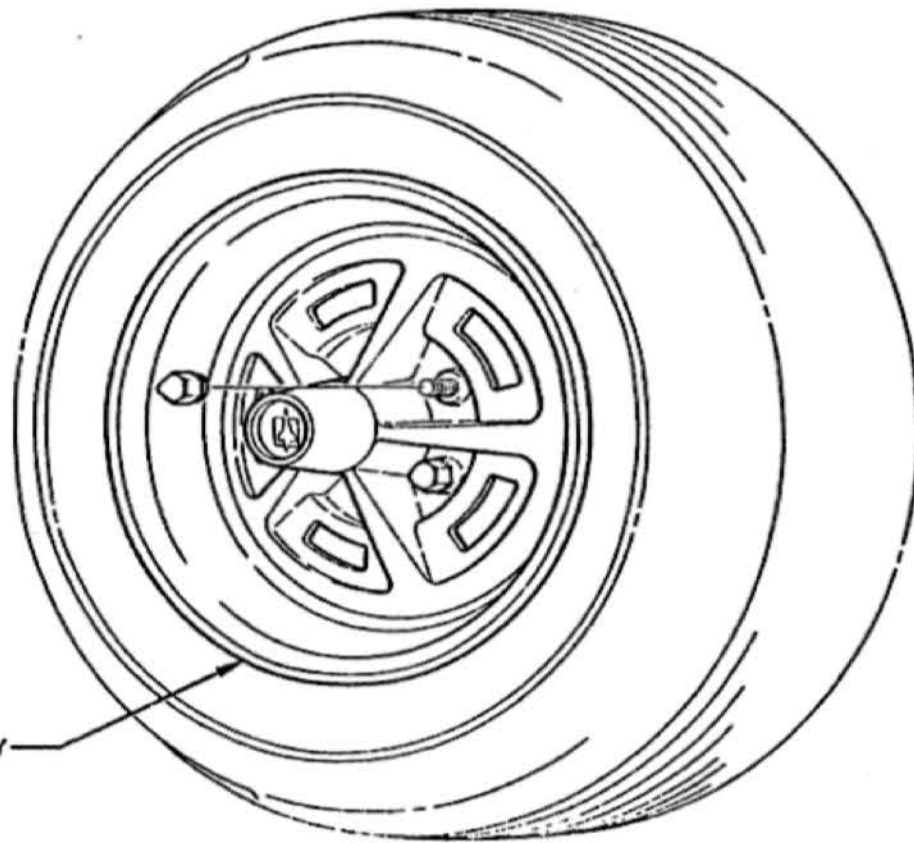
REVISED LIST	NO	DATE
	01666	

PRODUCTION SAMPLE TO BE TESTED
AND APPROVED BY PRODUCT EN-
GINEERING FOR OLDSMOBILE PARTS.

REV	DATE	DESCRIPTION	APPROVED	BY	DATE
0-7-66		WHS 10-83619		EB	1/1
1-11-66		A REVISED TO DETAIL	C.A.P.	ES	2/3
3-6-67		B AMV K.C. LAMP			
		NO WELD			
9-28-67		C TORQUE SPEC ADDED	H.H.B.	P.W.	10/1
10-3-67		D NOTE STANDARDIZED	S.H.D.	P.W.	10/1

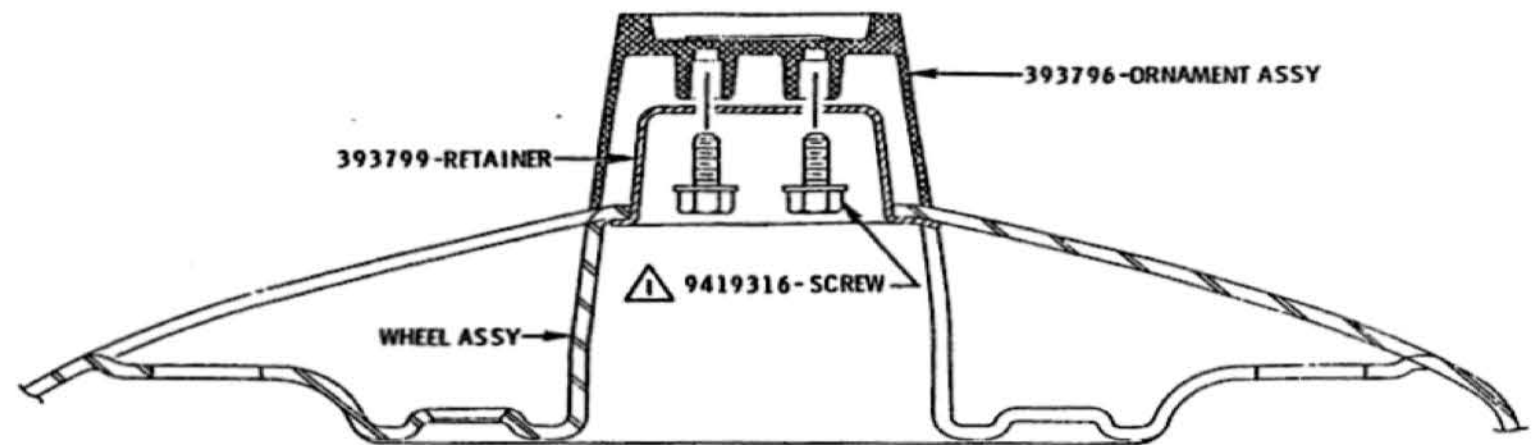
NO	399340
REVISED	OF
LAST CHANGE	A

TOLERANCES UNLESS OTHERWISE SPECIFIED & NOT ALLOWED ON TWO PLACE DECIMALS & NOT ALLOWED ON THREE PLACE DECIMALS ON ALL CASTINGS AND FORGING ALLOW FOR FINISH AS FOLLOWS:
F₁-2M, F₂-3M, F₃-4M, F₄-5M, F₅-6M, F₆-7M, F₇-8M, F₈-9M, F₉-10M, F₁₀-11M, F₁₁-12M, F₁₂-13M, F₁₃-14M, F₁₄-15M, F₁₅-16M, F₁₆-17M, F₁₇-18M, F₁₈-19M, F₁₉-20M, F₂₀-21M, F₂₁-22M, F₂₂-23M, F₂₃-24M, F₂₄-25M, F₂₅-26M, F₂₆-27M, F₂₇-28M, F₂₈-29M, F₂₉-30M, F₃₀-31M, F₃₁-32M, F₃₂-33M, F₃₃-34M, F₃₄-35M, F₃₅-36M, F₃₆-37M, F₃₇-38M, F₃₈-39M, F₃₉-40M, F₄₀-41M, F₄₁-42M, F₄₂-43M, F₄₃-44M, F₄₄-45M, F₄₅-46M, F₄₆-47M, F₄₇-48M, F₄₈-49M, F₄₉-50M, F₅₀-51M, F₅₁-52M, F₅₂-53M, F₅₃-54M, F₅₄-55M, F₅₅-56M, F₅₆-57M, F₅₇-58M, F₅₈-59M, F₅₉-60M, F₆₀-61M, F₆₁-62M, F₆₂-63M, F₆₃-64M, F₆₄-65M, F₆₅-66M, F₆₆-67M, F₆₇-68M, F₆₈-69M, F₆₉-70M, F₇₀-71M, F₇₁-72M, F₇₂-73M, F₇₃-74M, F₇₄-75M, F₇₅-76M, F₇₆-77M, F₇₇-78M, F₇₈-79M, F₇₉-80M, F₈₀-81M, F₈₁-82M, F₈₂-83M, F₈₃-84M, F₈₄-85M, F₈₅-86M, F₈₆-87M, F₈₇-88M, F₈₈-89M, F₈₉-90M, F₉₀-91M, F₉₁-92M, F₉₂-93M, F₉₃-94M, F₉₄-95M, F₉₅-96M, F₉₆-97M, F₉₇-98M, F₉₈-99M, F₉₉-100M, F₁₀₀-101M, F₁₀₁-102M, F₁₀₂-103M, F₁₀₃-104M, F₁₀₄-105M, F₁₀₅-106M, F₁₀₆-107M, F₁₀₇-108M, F₁₀₈-109M, F₁₀₉-110M, F₁₁₀-111M, F₁₁₁-112M, F₁₁₂-113M, F₁₁₃-114M, F₁₁₄-115M, F₁₁₅-116M, F₁₁₆-117M, F₁₁₇-118M, F₁₁₈-119M, F₁₁₉-120M, F₁₂₀-121M, F₁₂₁-122M, F₁₂₂-123M, F₁₂₃-124M, F₁₂₄-125M, F₁₂₅-126M, F₁₂₆-127M, F₁₂₇-128M, F₁₂₈-129M, F₁₂₉-130M, F₁₃₀-131M, F₁₃₁-132M, F₁₃₂-133M, F₁₃₃-134M, F₁₃₄-135M, F₁₃₅-136M, F₁₃₆-137M, F₁₃₇-138M, F₁₃₈-139M, F₁₃₉-140M, F₁₄₀-141M, F₁₄₁-142M, F₁₄₂-143M, F₁₄₃-144M, F₁₄₄-145M, F₁₄₅-146M, F₁₄₆-147M, F₁₄₇-148M, F₁₄₈-149M, F₁₄₉-150M, F₁₅₀-151M, F₁₅₁-152M, F₁₅₂-153M, F₁₅₃-154M, F₁₅₄-155M, F₁₅₅-156M, F₁₅₆-157M, F₁₅₇-158M, F₁₅₈-159M, F₁₅₉-160M, F₁₆₀-161M, F₁₆₁-162M, F₁₆₂-163M, F₁₆₃-164M, F₁₆₄-165M, F₁₆₅-166M, F₁₆₆-167M, F₁₆₇-168M, F₁₆₈-169M, F₁₆₉-170M, F₁₇₀-171M, F₁₇₁-172M, F₁₇₂-173M, F₁₇₃-174M, F₁₇₄-175M, F₁₇₅-176M, F₁₇₆-177M, F₁₇₇-178M, F₁₇₈-179M, F₁₇₉-180M, F₁₈₀-181M, F₁₈₁-182M, F₁₈₂-183M, F₁₈₃-184M, F₁₈₄-185M, F₁₈₅-186M, F₁₈₆-187M, F₁₈₇-188M, F₁₈₈-189M, F₁₈₉-190M, F₁₉₀-191M, F₁₉₁-192M, F₁₉₂-193M, F₁₉₃-194M, F₁₉₄-195M, F₁₉₅-196M, F₁₉₆-197M, F₁₉₇-198M, F₁₉₈-199M, F₁₉₉-200M, F₂₀₀-201M, F₂₀₁-202M, F₂₀₂-203M, F₂₀₃-204M, F₂₀₄-205M, F₂₀₅-206M, F₂₀₆-207M, F₂₀₇-208M, F₂₀₈-209M, F₂₀₉-210M, F₂₁₀-211M, F₂₁₁-212M, F₂₁₂-213M, F₂₁₃-214M, F₂₁₄-215M, F₂₁₅-216M, F₂₁₆-217M, F₂₁₇-218M, F₂₁₈-219M, F₂₁₉-220M, F₂₂₀-221M, F₂₂₁-222M, F₂₂₂-223M, F₂₂₃-224M, F₂₂₄-225M, F₂₂₅-226M, F₂₂₆-227M, F₂₂₇-228M, F₂₂₈-229M, F₂₂₉-230M, F₂₃₀-231M, F₂₃₁-232M, F₂₃₂-233M, F₂₃₃-234M, F₂₃₄-235M, F₂₃₅-236M, F₂₃₆-237M, F₂₃₇-238M, F₂₃₈-239M, F₂₃₉-240M, F₂₄₀-241M, F₂₄₁-242M, F₂₄₂-243M, F₂₄₃-244M, F₂₄₄-245M, F₂₄₅-246M, F₂₄₆-247M, F₂₄₇-248M, F₂₄₈-249M, F₂₄₉-250M, F₂₅₀-251M, F₂₅₁-252M, F₂₅₂-253M, F₂₅₃-254M, F₂₅₄-255M, F₂₅₅-256M, F₂₅₆-257M, F₂₅₇-258M, F₂₅₈-259M, F₂₅₉-260M, F₂₆₀-261M, F₂₆₁-262M, F₂₆₂-263M, F₂₆₃-264M, F₂₆₄-265M, F₂₆₅-266M, F₂₆₆-267M, F₂₆₇-268M, F₂₆₈-269M, F₂₆₉-270M, F₂₇₀-271M, F₂₇₁-272M, F₂₇₂-273M, F₂₇₃-274M, F₂₇₄-275M, F₂₇₅-276M, F₂₇₆-277M, F₂₇₇-278M, F₂₇₈-279M, F₂₇₉-280M, F₂₈₀-281M, F₂₈₁-282M, F₂₈₂-283M, F₂₈₃-284M, F₂₈₄-285M, F₂₈₅-286M, F₂₈₆-287M, F₂₈₇-288M, F₂₈₈-289M, F₂₈₉-290M, F₂₉₀-291M, F₂₉₁-292M, F₂₉₂-293M, F₂₉₃-294M, F₂₉₄-295M, F₂₉₅-296M, F₂₉₆-297M, F₂₉₇-298M, F₂₉₈-299M, F₂₉₉-300M, F₃₀₀-301M, F₃₀₁-302M, F₃₀₂-303M, F₃₀₃-304M, F₃₀₄-305M, F₃₀₅-306M, F₃₀₆-307M, F₃₀₇-308M, F₃₀₈-309M, F₃₀₉-310M, F₃₁₀-311M, F₃₁₁-312M, F₃₁₂-313M, F₃₁₃-314M, F₃₁₄-315M, F₃₁₅-316M, F₃₁₆-317M, F₃₁₇-318M, F₃₁₈-319M, F₃₁₉-320M, F₃₂₀-321M, F₃₂₁-322M, F₃₂₂-323M, F₃₂₃-324M, F₃₂₄-325M, F₃₂₅-326M, F₃₂₆-327M, F₃₂₇-328M, F₃₂₈-329M, F₃₂₉-330M, F₃₃₀-331M, F₃₃₁-332M, F₃₃₂-333M, F₃₃₃-334M, F₃₃₄-335M, F₃₃₅-336M, F₃₃₆-337M, F₃₃₇-338M, F₃₃₈-339M, F₃₃₉-340M, F₃₄₀-341M, F₃₄₁-342M, F₃₄₂-343M, F₃₄₃-344M, F₃₄₄-345M, F₃₄₅-346M, F₃₄₆-347M, F₃₄₇-348M, F₃₄₈-349M, F₃₄₉-350M, F₃₅₀-351M, F₃₅₁-352M, F₃₅₂-353M, F₃₅₃-354M, F₃₅₄-355M, F₃₅₅-356M, F₃₅₆-357M, F₃₅₇-358M, F₃₅₈-359M, F₃₅₉-360M, F₃₆₀-361M, F₃₆₁-362M, F₃₆₂-363M, F₃₆₃-364M, F₃₆₄-365M, F₃₆₅-366M, F₃₆₆-367M, F₃₆₇-368M, F₃₆₈-369M, F₃₆₉-370M, F₃₇₀-371M, F₃₇₁-372M, F₃₇₂-373M, F₃₇₃-374M, F₃₇₄-375M, F₃₇₅-376M, F₃₇₆-377M, F₃₇₇-378M, F₃₇₈-379M, F₃₇₉-380M, F₃₈₀-381M, F₃₈₁-382M, F₃₈₂-383M, F₃₈₃-384M, F₃₈₄-385M, F₃₈₅-386M, F₃₈₆-387M, F₃₈₇-388M, F₃₈₈-389M, F₃₈₉-390M, F₃₉₀-391M, F₃₉₁-392M, F₃₉₂-393M, F₃₉₃-394M, F₃₉₄-395M, F₃₉₅-396M, F₃₉₆-397M, F₃₉₇-398M, F₃₉₈-399M, F₃₉₉-400M, F₄₀₀-401M, F₄₀₁-402M, F₄₀₂-403M, F₄₀₃-404M, F₄₀₄-405M, F₄₀₅-406M, F₄₀₆-407M, F₄₀₇-408M, F₄₀₈-409M, F₄₀₉-410M, F₄₁₀-411M, F₄₁₁-412M, F₄₁₂-413M, F₄₁₃-414M, F₄₁₄-415M, F₄₁₅-416M, F₄₁₆-417M, F₄₁₇-418M, F₄₁₈-419M, F₄₁₉-420M, F₄₂₀-421M, F₄₂₁-422M, F₄₂₂-423M, F₄₂₃-424M, F₄₂₄-425M, F₄₂₅-426M, F₄₂₆-427M, F₄₂₇-428M, F₄₂₈-429M, F₄₂₉-430M, F₄₃₀-431M, F₄₃₁-432M, F₄₃₂-433M, F₄₃₃-434M, F₄₃₄-435M, F₄₃₅-436M, F₄₃₆-437M, F₄₃₇-438M, F₄₃₈-439M, F₄₃₉-440M, F₄₄₀-441M, F₄₄₁-442M, F₄₄₂-443M, F₄₄₃-444M, F₄₄₄-445M, F₄₄₅-446M, F₄₄₆-447M, F₄₄₇-448M, F₄₄₈-449M, F₄₄₉-450M, F₄₅₀-451M, F₄₅₁-452M, F₄₅₂-453M, F₄₅₃-454M, F₄₅₄-455M, F₄₅₅-456M, F₄₅₆-457M, F₄₅₇-458M, F₄₅₈-459M, F₄₅₉-460M, F₄₆₀-461M, F₄₆₁-462M, F₄₆₂-463M, F₄₆₃-464M, F₄₆₄-465M, F₄₆₅-466M, F₄₆₆-467M, F₄₆₇-468M, F₄₆₈-469M, F₄₆₉-470M, F₄₇₀-471M, F₄₇₁-472M, F₄₇₂-473M, F₄₇₃-474M, F₄₇₄-475M, F₄₇₅-476M, F₄₇₆-477M, F₄₇₇-478M, F₄₇₈-479M, F₄₇₉-480M, F₄₈₀-481M, F₄₈₁-482M, F₄₈₂-483M, F₄₈₃-484M, F₄₈₄-485M, F₄₈₅-486M, F₄₈₆-487M, F₄₈₇-488M, F₄₈₈-489M, F₄₈₉-490M, F₄₉₀-491M, F₄₉₁-492M, F₄₉₂-493M, F₄₉₃-494M, F₄₉₄-495M, F₄₉₅-496M, F₄₉₆-497M, F₄₉₇-498M, F₄₉₈-499M, F₄₉₉-500M, F₅₀₀-501M, F₅₀₁-502M, F₅₀₂-503M, F₅₀₃-504M, F₅₀₄-505M, F₅₀₅-506M, F₅₀₆-507M, F₅₀₇-508M, F₅₀₈-509M, F₅₀₉-510M, F₅₁₀-511M, F₅₁₁-512M, F₅₁₂-513M, F₅₁₃-514M, F₅₁₄-515M, F₅₁₅-516M, F₅₁₆-517M, F₅₁₇-518M, F₅₁₈-519M, F₅₁₉-520M, F₅₂₀-521M, F₅₂₁-522M, F₅₂₂-523M, F₅₂₃-524M, F₅₂₄-525M, F₅₂₅-526M, F₅₂₆-527M, F₅₂₇-528M, F₅₂₈-529M, F₅₂₉-530M, F₅₃₀-531M, F₅₃₁-532M, F₅₃₂-533M, F₅₃₃-534M, F₅₃₄-535M, F₅₃₅-536M, F₅₃₆-537M, F₅₃₇-538M, F₅₃₈-539M, F₅₃₉-540M, F₅₄₀-541M, F₅₄₁-542M, F₅₄₂-543M, F₅₄₃-544M, F₅₄₄-545M, F₅₄₅-546M, F₅₄₆-547M, F₅₄₇-548M, F₅₄₈-549M, F₅₄₉-550M, F₅₅₀-551M, F₅₅₁-552M, F₅₅₂-553M, F₅₅₃-554M, F₅₅₄-555M, F₅₅₅-556M, F₅₅₆-557M, F₅₅₇-558M, F₅₅₈-559M, F₅₅₉-560M, F₅₆₀-561M, F₅₆₁-562M, F₅₆₂-563M, F₅₆₃-564M, F₅₆₄-565M, F₅₆₅-566M, F₅₆₆-567M, F₅₆₇-568M, F₅₆₈-569M, F₅₆₉-570M, F₅₇₀-571M, F₅₇₁-572M, F₅₇₂-573M, F₅₇₃-574M, F₅₇₄-575M, F₅₇₅-576M, F₅₇₆-577M, F₅₇₇-578M, F₅₇₈-579M, F₅₇₉-580M, F₅₈₀-581M, F₅₈₁-582M, F₅₈₂-583M, F₅₈₃-584M, F₅₈₄-585M, F₅₈₅-586M, F₅₈₆-587M, F₅₈₇-588M, F₅₈₈-589M, F₅₈₉-590M, F₅₉₀-591M, F₅₉₁-592M, F₅₉₂-593M, F₅₉₃-594M, F₅₉₄-595M, F₅₉₅-596M, F₅₉₆-597M, F₅₉₇-598M, F₅₉₈-599M, F₅₉₉-600M, F₆₀₀-601M, F₆₀₁-602M, F₆₀₂-603M, F₆₀₃-604M, F₆₀₄-605M, F₆₀₅-606M, F₆₀₆-607M, F₆₀₇-608M, F₆₀₈-609M, F₆₀₉-610M, F₆₁₀-611M, F₆₁₁-612M, F₆₁₂-613M, F₆₁₃-614M, F₆₁₄-615M, F₆₁₅-616M, F₆₁₆-617M, F₆₁₇-618M, F₆₁₈-619M, F₆₁₉-620M, F₆₂₀-621M, F₆₂₁-622M, F₆₂₂-623M, F₆₂₃-624M, F₆₂₄-625M, F₆₂₅-626M, F₆₂₆-627M, F₆₂₇-628M, F₆₂₈-629M, F₆₂₉-630M, F₆₃₀-631M, F₆₃₁-632M, F₆₃₂-633M, F₆₃₃-634M, F₆₃₄-635M, F₆₃₅-636M, F₆₃₆-637M, F₆₃₇-638M, F₆₃₈-639M, F₆₃₉-640M, F₆₄₀-641M, F₆₄₁-642M, F₆₄₂-643M, F₆₄₃-644M, F₆₄₄-645M, F₆₄₅-646M, F₆₄₆-647M, F₆₄₇-648M, F₆₄₈-649M, F₆₄₉-650M, F₆₅₀-651M, F₆₅₁-652M, F₆₅₂-653M, F₆₅₃-654M, F₆₅₄-655M, F₆₅₅-656M, F₆₅₆-657M, F₆₅₇-658M, F₆₅₈-659M, F₆₅₉-660M, F₆₆₀-661M, F₆₆₁-662M, F₆₆₂-663M, F₆₆₃-664M, F₆₆₄-665M, F₆₆₅-666M, F₆₆₆-667M, F₆₆₇-668M, F₆₆₈-669M, F₆₆₉-670M, F₆₇₀-671M, F₆₇₁-672M, F₆₇₂-673M, F₆₇₃-674M, F₆₇₄-675M, F₆₇₅-676M, F₆₇₆-677M, F₆₇₇-678M, F₆₇₈-679M, F₆₇₉-680M, F₆₈₀-681M, F₆₈₁-682M, F₆₈₂-683M, F₆₈₃-684M, F₆₈₄-685M, F₆₈₅-686M, F₆₈₆-687M, F₆₈₇-688M, F₆₈₈-689M, F₆₈₉-690M, F₆₉₀-691M, F₆₉₁-692M, F₆₉₂-693M, F₆₉₃-694M, F₆₉₄-695M, F₆₉₅-696M, F₆₉₆-697M, F₆₉₇-698M, F₆₉₈-699M, F₆₉₉-700M, F₇₀₀-701M, F₇₀₁-702M, F₇₀₂-703M, F₇₀₃-704M, F₇₀₄-705M, F₇₀₅-706M, F₇₀₆-707M, F₇₀₇-708M, F₇₀₈-709M, F₇₀₉-710M, F₇₁₀-711M, F₇₁₁-712M, F₇₁₂-713M, F₇₁₃-714M, F₇₁₄-715M, F₇₁₅-716M, F₇₁₆-717M, F₇₁₇-718M, F₇₁₈-719M, F₇₁₉-720M, F₇₂₀-721M, F₇₂₁-722M, F₇₂₂-723M, F₇₂₃-724M, F₇₂₄-725M, F₇₂₅-726M, F₇₂₆-727M, F₇₂₇-728M, F₇₂₈-729M, F₇₂₉-730M, F₇₃₀-731M, F₇₃₁-732M, F₇₃₂-733M, F₇₃₃-734M, F₇₃₄-735M, F₇₃₅-736M, F₇₃₆-737M, F₇₃₇-738M, F₇₃₈-739M, F₇₃₉-740M, F₇₄₀-741M, F₇₄₁-742M, F₇₄₂-743M, F₇₄₃-744M, F₇₄₄-745M, F₇₄₅-746M, F₇₄₆-747M, F₇₄₇-748M, F₇₄₈-749M, F₇₄₉-750M, F<



393822-WHEEL ASSY

WHEEL WITH ORNAMENT IN ASSEMBLED POSITION

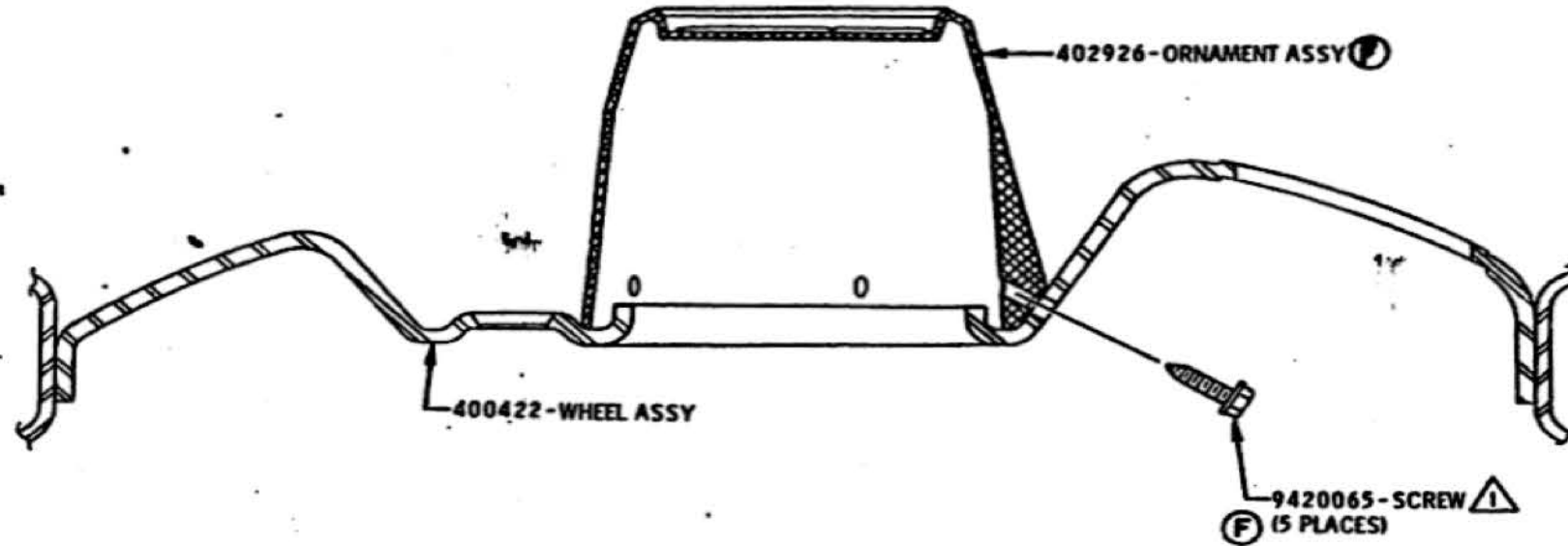


CENTERLINE SECTION THRU WHEEL AND ORNAMENT

⚠ 60-90 LB. IN.

(1ST TYPE)

										TITLE		35P05 WHEEL ASSY			
										DATE		NOVEMBER 1, 1967			
										DR. BY		S. SHASSBERGER			
										CHECKED		M. J. [Signature]			
										APPR.		[Signature]			
										FIRST USED		1968			
										REF.		SERIES			
												A			
										PART NO.		398162			
										MANUAL SEC.		10 124			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.



CENTERLINE SECTION THRU
WHEEL AND ORNAMENT

ⓐ FOR TRIM RING INSTRUCTIONS, SEE
LOOSE PARTS STOWAGE IN SECTION "O"

⚠ 30 - 40 LB. IN. ⓕ

(2ND TYPE)

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.
					12-20-67	E	"B" CAR USAGE REMOVED	PE	MB							35P05 WHEEL ASSY						
					11-27-67	D	WAS 60-90 LB. IN.	JB	MS							DATE MARCH 7, 1967	1968		10	125		
					11-27-67	C	WAS 9422207	JL	MS							DR. BY W. E. MASON						
		4-26-68	G		11-1-67	B	PART NOS ADDED	SR	MS							CHECKED <i>MP3 amhart</i>						
		12-28-67	F ₃		4-14-67	A	RELEASED FOR "B" CAR	PE	MS							REF. 35 P05						
																					A	398162

(1) THE FOLLOWING TABLE SHOWS THE AMOUNT ON INHIBITED ETHYLENE GLYCOL COOLANT REQUIRED TO GIVE A 44% SOLUTION BY VOLUME. (SEE EXCEPTION #)

MODELS	TOTAL COOLING SYSTEM CAPACITY		FREEZING POINT	PERCENT SOLUTION BY VOLUME	QUANTITY OF COOLANT SOLUTION	
	WITHOUT HEATER	WITH HEATER			WITHOUT HEATER	WITH HEATER
ALL 250 CU. IN. EXC. A/C	11.5 QTS.	12.2 QTS.	- 20° F.	44.0	5.07 QTS.	5.37 QTS.
ALL 250 CU. IN. A/C	11.5 QTS.	12.2 QTS.	- 20° F.	44.0	5.07 QTS.	5.37 QTS.
(A) ALL 250 CU. IN. Y72	12.0 QTS.	12.7 QTS.	- 20° F.	44.0	5.27 QTS.	5.58 QTS.
ALL 350 CU. IN. EXC. A/C	14.5 QTS.	15.2 QTS.	- 20° F.	44.0	6.37 QTS.	6.70 QTS.
ALL 350 CU. IN. A/C OR V01	15.0 QTS.	15.7 QTS.	- 20° F.	44.0	6.60 QTS.	6.90 QTS.
(A) ALL 350 CU. IN. Y72	15.5 QTS.	16.2 QTS.	- 20° F.	44.0	6.82 QTS.	7.13 QTS.
ALL 400 CU. IN. EXC. A/C	15.5 QTS.	16.2 QTS.	- 20° F.	44.0	6.82 QTS.	7.13 QTS.
(B) ALL 400 CU. IN. A/C OR V01	16.5 QTS.	17.2 QTS.	- 20° F.	44.0	7.25 QTS.	7.57 QTS.
(A) ALL 400 CU. IN. Y72	16.5 QTS.	17.2 QTS.	- 20° F.	44.0	7.25 QTS.	7.57 QTS.

NOTE: METHANOL TYPE ANTI-FREEZE OR WATER ARE NOT TO BE USED UNDER ANY CONDITION. ALL SERIES MUST BE PROTECTED AS SHOWN ABOVE WITH ETHYLENE GLYCOL TYPE COOLANT. NO DEVIATION PERMITTED BY ANY PLANT OR ZONE FOR CLIMATIC CONDITIONS.

(2) GENERAL

CAUTION: SOLUTION LEVEL MUST BE HELD TO "FILL COLD" MARK TO PREVENT LEAKAGE DURING TRANSPORTATION AND LOSS OF COOLANT DURING OPERATION. THIS LEVEL IS MEASURED WITH COOLANT AT ROOM TEMPERATURE TO ALLOW EXPANSION VOLUME OF COOLANT UNDER OPERATION CONDITIONS. EXTREME CARE MUST BE TAKEN IN FILLING COOLING SYSTEM TO PREVENT DAMAGE TO CAR FINISH.

NOTE: COOLING SYSTEM OPERATION CAPACITY (COOLANT AT ROOM TEMPERATURE) FILLED TO "FILL COLD" MARK.

ONE (1) ADDITIONAL QUART OF UNDILUTED ETHYLENE GLYCOL COOLANT WHICH MEETS SPEC. #9985012 IS TO BE ADDED TO THE RADIATOR PRIOR TO NORMAL FILL AND WILL PROVIDE A 50% SOLUTION FOR ALL CANADIAN EXPORT CARS.

APPROVED SOURCES & MATERIALS

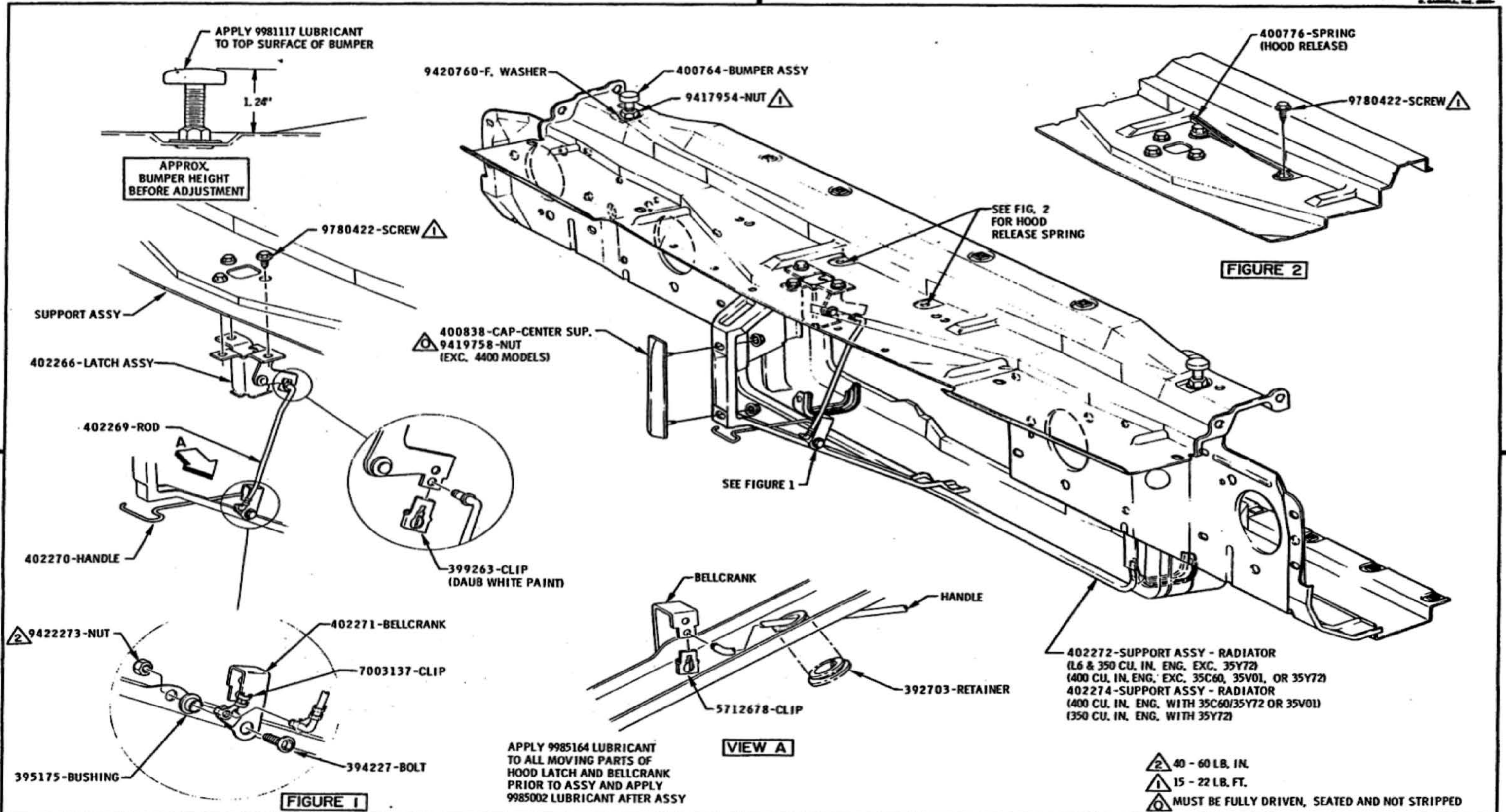
WYANDOTTE CHEMICAL	SINGLE PHASE
	U-2407-CW
UNION CARBIDE	G300
JEFFERSON CHEMICAL	JC57
DUPONT	M29
OLIN-MATHIESON	OM-91D
DOW CHEMICAL	D-566-100
WYANDOTTE	U-3034 CW
DOW CHEMICAL	725
MINERAL INDUSTRIES, INC.	#101
HOUSTON CHEMICAL CORP.	#700-BC-20

RADIATOR FILL REQUIREMENTS:

- ETHYLENE GLYCOL TWO YEAR COOLANT MEETING SPECIFICATION 9985012 MANDATORY IN ALL SERIES YEAR AROUND TO PROVIDE AN INHIBITED COOLANT IN THE AMOUNTS TABULATED.
- SOLUBLE OIL MEETING SPECIFICATION OF 9985017 TO BE ADDED TO ALL SERIES IN FOLLOWING QUANTITY.
2.00 ± .25 OZ. PER CAR OR .29 GAL. PER 100 GAL. OF COOLANT.
- 9985168 SEALER TO BE ADDED TO COOLING SYSTEM (2 PELLETS PER CAR) IN ALL SERIES.
- (C) ANTI FOAM ADDITIVE, SPECIFICATION 9985147 TO BE ADDED TO ALL 400 CU. IN. ENGINES IN THE FOLLOWING QUANTITY. 2.00 OZ. PER CAR.

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

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 - COOLING SYSTEM FILL	1968		11	100	A	400397
																52367 C LINE ADDED						
																52367 B LINE REVISED						
																32067 A3 LINES ADDED						
																DR. BY RODNEY DAVIS						
																CHECKED DON MALKIN						
																APPR. 2/21/68						



										TITLE RADIATOR SUPPORT ASSY (2ND TYPE)		FIRST USED 1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 11		PAGE 109	
										DATE OCT. 30 1967		REF. 110		SERIES A		PART NO. 398162			
										DR. BY R. J. McKESSU									
										CHECKED Jim									
										APPR.									
										APPR.									
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.

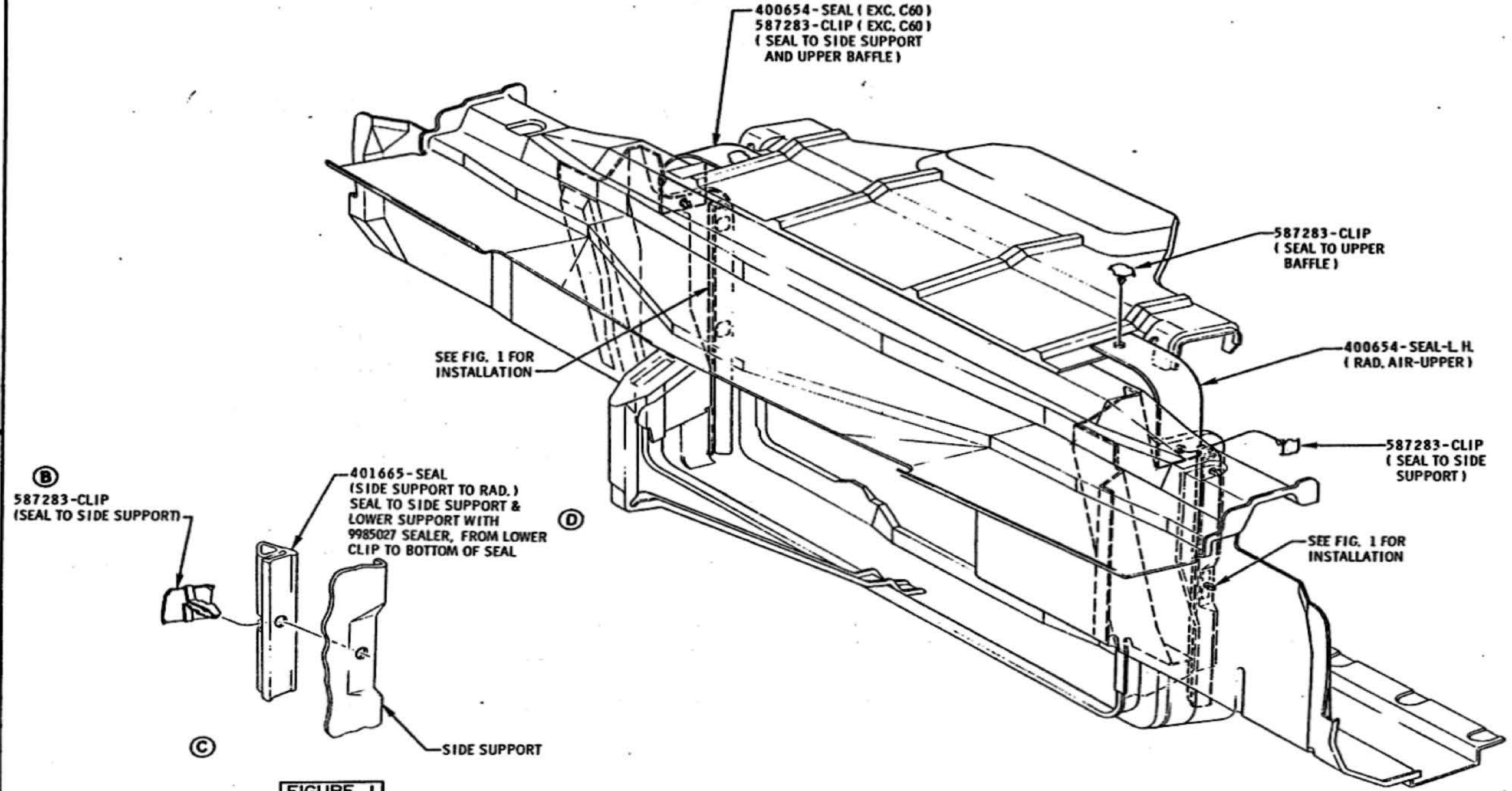
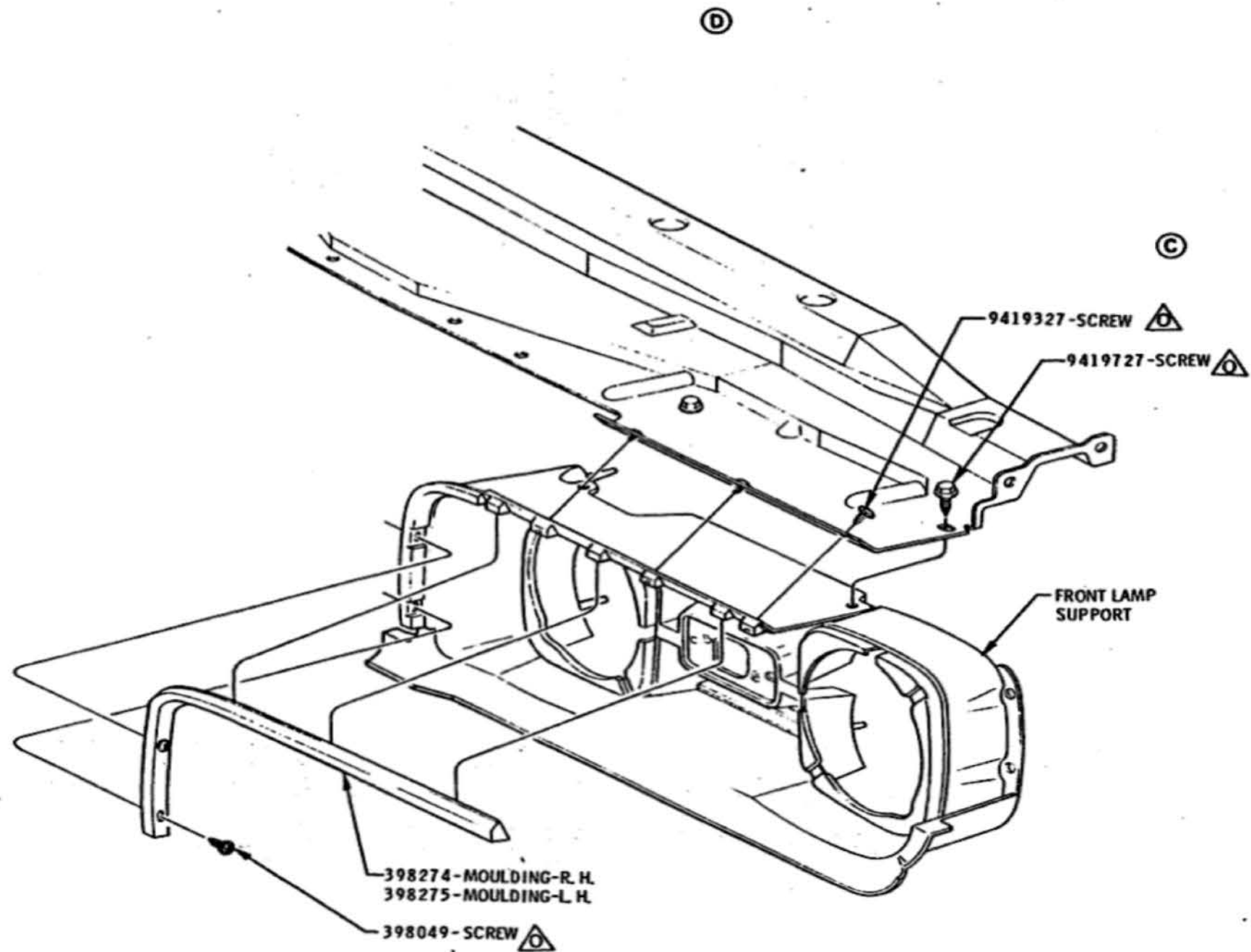


FIGURE 1
TYPICAL SEAL
FASTENING

L. H. SHOWN-R. H. OPPOSITE

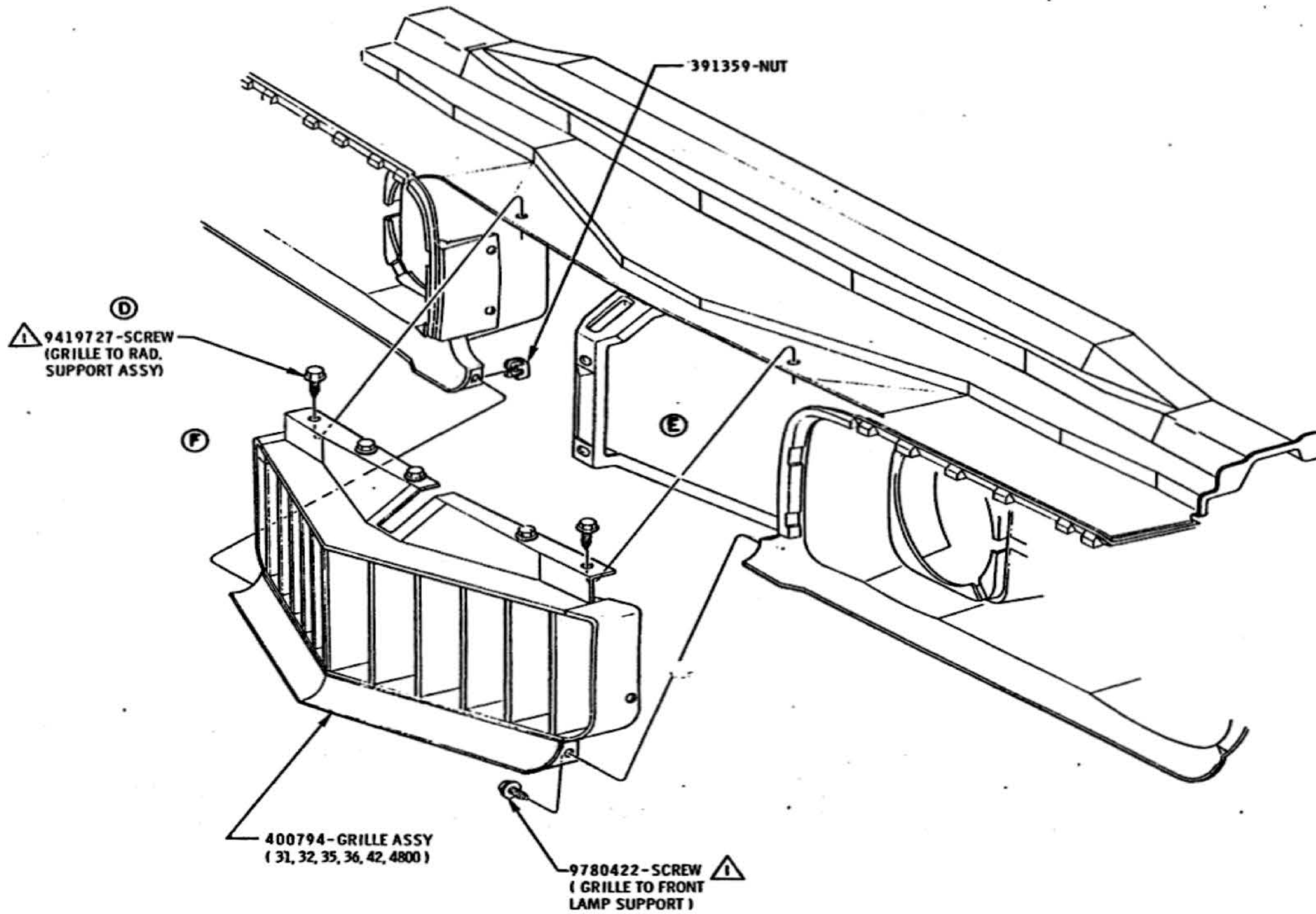
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					10-11-67	D	9985027 SEALER ADDED									RADIATOR SUPPORT SEALS-V8 & L6	1968		11	114
					9-20-67	C	9985027 SEALER REMOVED									DR. BY G. KESTER				
					9-18-67	B	WAS 376720-CLIP									CHECKED <i>JTG</i>				
					8-2-67	A	FIGURE 1 ADDED									APPR. <i>JTG</i>				
																	11A-138-13E	A		398162



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
					10-5-67	E	FILLER REMOVED								
					9-14-67	D	CHART REMOVED								
					9-21-67	C	FILLER ADDED								
					9-21-67	B	WAS 399355-SCREW								
					6-27-67	A	TORQUE NOTE ADDED								

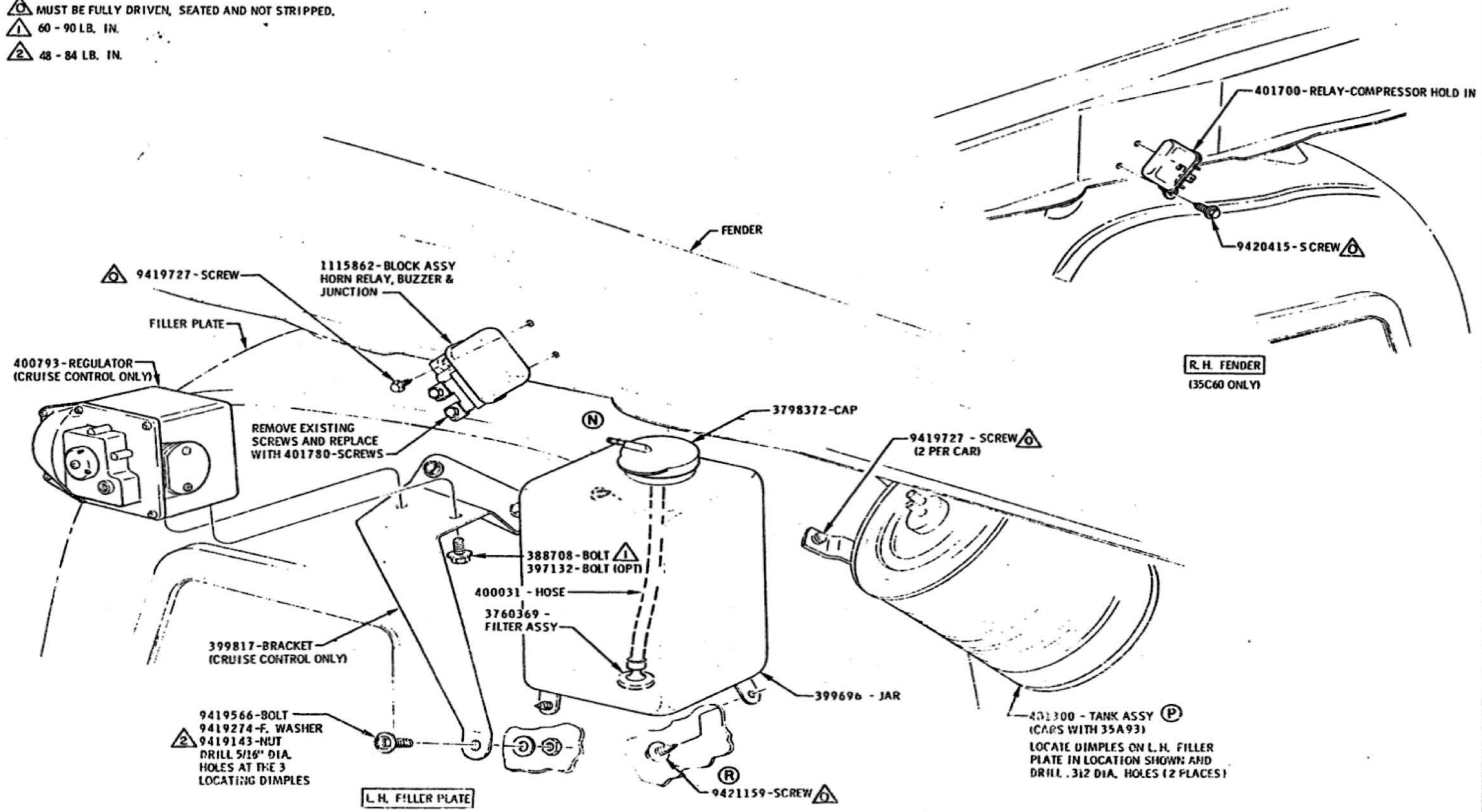
TITLE		HEADLAMP SUPPORT MOUR DING	
DATE	FEB. 1, 1967	FIRST USED	1968
DR. BY	G. KESTER	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 11
CHECKED	J. H. H.	SERIES	A
APPR.		PART NO.	398162
		REF. 12C.	PAGE 118



10 - 12 FT. LBS.

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.	
					10-21-67	E	BACKGROUND REVISED	P.H.	DT							GRILLE TO RADIATOR & FRONT LAMP SUPPORT ASSY (EXC. 4400)	1968		11	121	A	398162	
					8-22-67	D	METHOD OF FASTENING REV.	P.H.	DT							DATE FEB. 1, 1967							
					7-7-67	C	TORQUES ADDED	P.H.	BP							DR. BY G. KESTER							
					7-7-67	B	VIEW REVISED	P.H.	BP							CHECKED J. H. H.							
					10-21-67	F	9419727-SCREW REMOVED	P.H.	DT	4-21-67	A	NAS 399823-GRILLE	P.H.	DT		APPR. R. HUNTER	REF. 13C						

- ⊙ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.
- ① 60 - 90 LB. IN.
- ② 48 - 84 LB. IN.

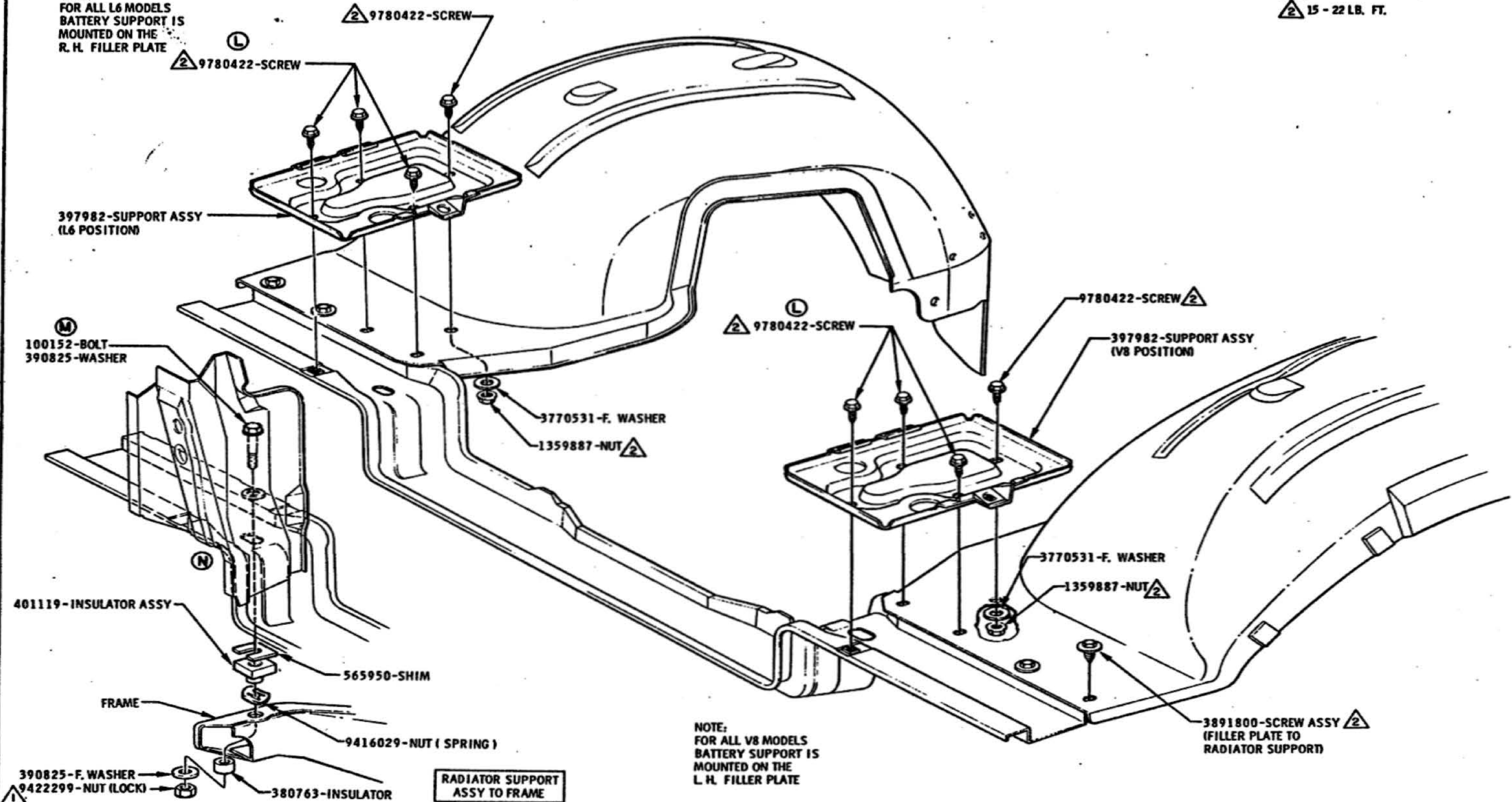


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE
5-24-68	R	WAS 9417321 SCREW	MM	DT	9-21-67	A	35C60 RELAY ADDED	MM	DT	7-7-67	E	TORQUE ADDED	MM	DT	7-7-67	E	TORQUE ADDED	FILLER PLATE AND FENDER PARTS	1968	OLDSMOBILE PRODUCT	11	130
3-26-68	P	Tank Added	PL	DT	8-17-67	J	NOTE ADDED	PL	DT	11-6-67	D	REVISED TO DETAIL	PL	DT	11-6-67	D	REVISED TO DETAIL	DATE	1967	IN:ORDWAY-10-MANUAL	11	130
2-9-68	N	402267 NUT REH. VED	MM	DT	9-10-67	H	WASAL & FILTER ADDED	MM	DT	5-26-67	C	UCT BLK. & FAST. REV.	MM	DT	5-26-67	C	UCT BLK. & FAST. REV.	DR. BY	P. J. M. 10-1-67	35X30	12	
11-3-67	M	402262 NUT ADDED	MM	DT	8-9-67	G	TORQUE WAS 40-70 LB-IN.	MM	DT	5-26-67	B	WAS 396920 REGULATOR	MM	DT	5-26-67	B	WAS 396920 REGULATOR	CHECKED	TRM	35X30	12	
11-3-67	L	WAS 9421159 SCREW	MM	DT	8-7-67	F	WAS 9421159 SCREW	MM	DT	3-22-67	A	35X30 REGULATOR ADDED	MM	DT	3-22-67	A	35X30 REGULATOR ADDED	APPR.		35X30	12	

PART NO. **398162**

NOTE:
FOR ALL L6 MODELS
BATTERY SUPPORT IS
MOUNTED ON THE
R. H. FILLER PLATE

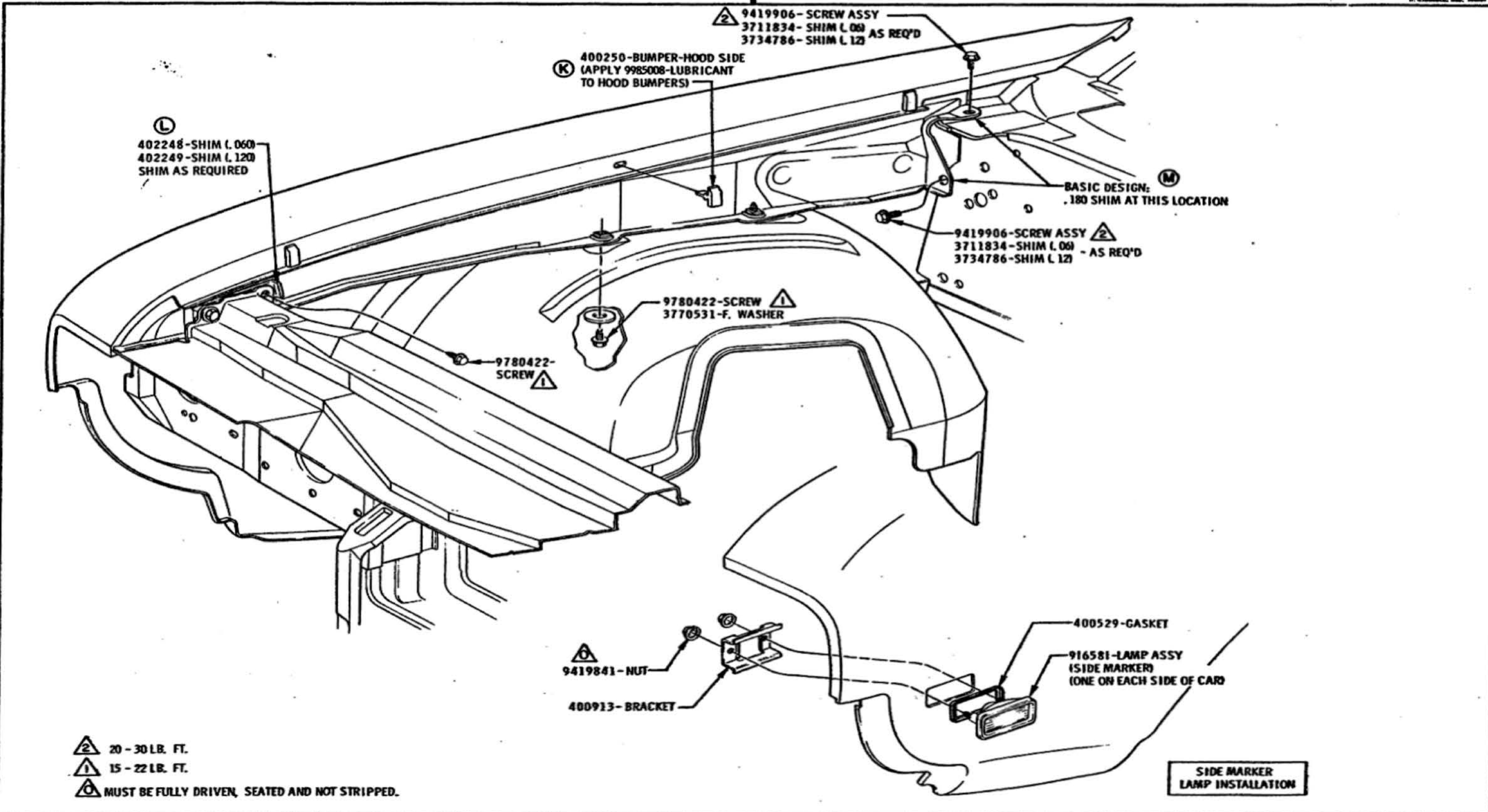
1 30 - 45 LB. FT.
2 15 - 22 LB. FT.



NOTE:
FOR ALL V8 MODELS
BATTERY SUPPORT IS
MOUNTED ON THE
L. H. FILLER PLATE

RADIATOR SUPPORT
ASSY TO FRAME

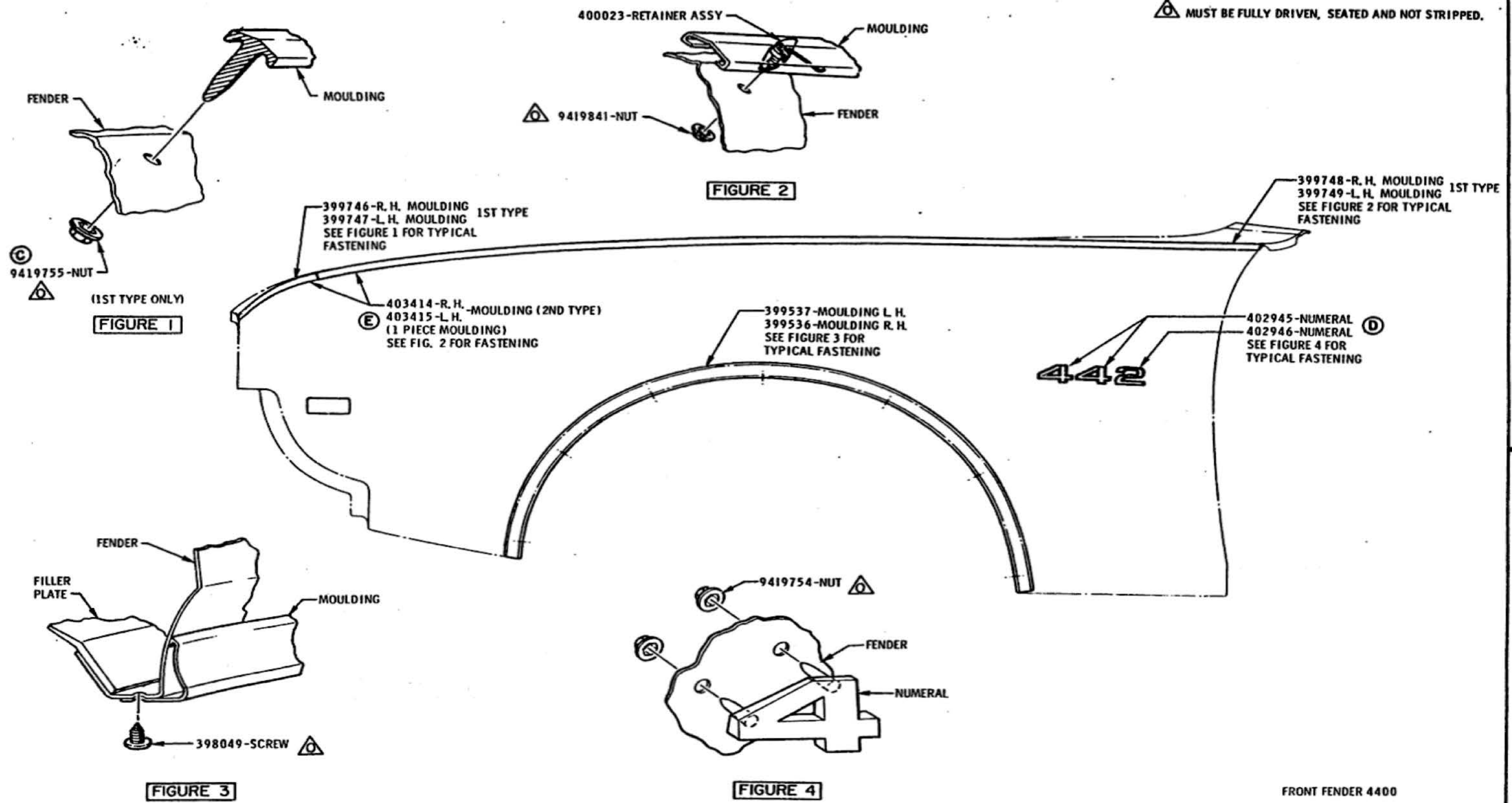
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																BATTERY SUPPORT- RAD. SUPPORT TO FRAME	1968		11	140
4-18-66	N	SLOT WAS HOLE	J	DT	7-10-67	J	OPT. BOLT ADDED	DT	4-18-66	D	DT	4-18-67	C	DT	DT	DATE FEB. 1 1967				
12-4-67	M	WAS 3902332-BOLT	N	DT	7-7-67	N	FASTENERS REPOSITIONED	DT	4-18-67	C	DT	4-18-67	C	DT	DT	DR. BY G. KESTER				
10-31-67	L	CALLOUTS REVISED	G	DT	7-7	G	TORQUES ADDED	DT	3-8-67	B	DT	3-8-67	B	DT	DT	WAS 380764 - INSULATOR				
9-14-67	K	WAS 9780422-SCREW	F	DT	7-7	F	WAS 390847-BOLT	DT	2-4-67	A	DT	2-4-67	A	DT	DT	VIEW/PT. NO'S. ADDED	REF. 12B			
																		SERIES		
																		A		
																				PART NO. 398162



- △ 2 20 - 30 LB. FT.
- △ 1 15 - 22 LB. FT.
- △ 0 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

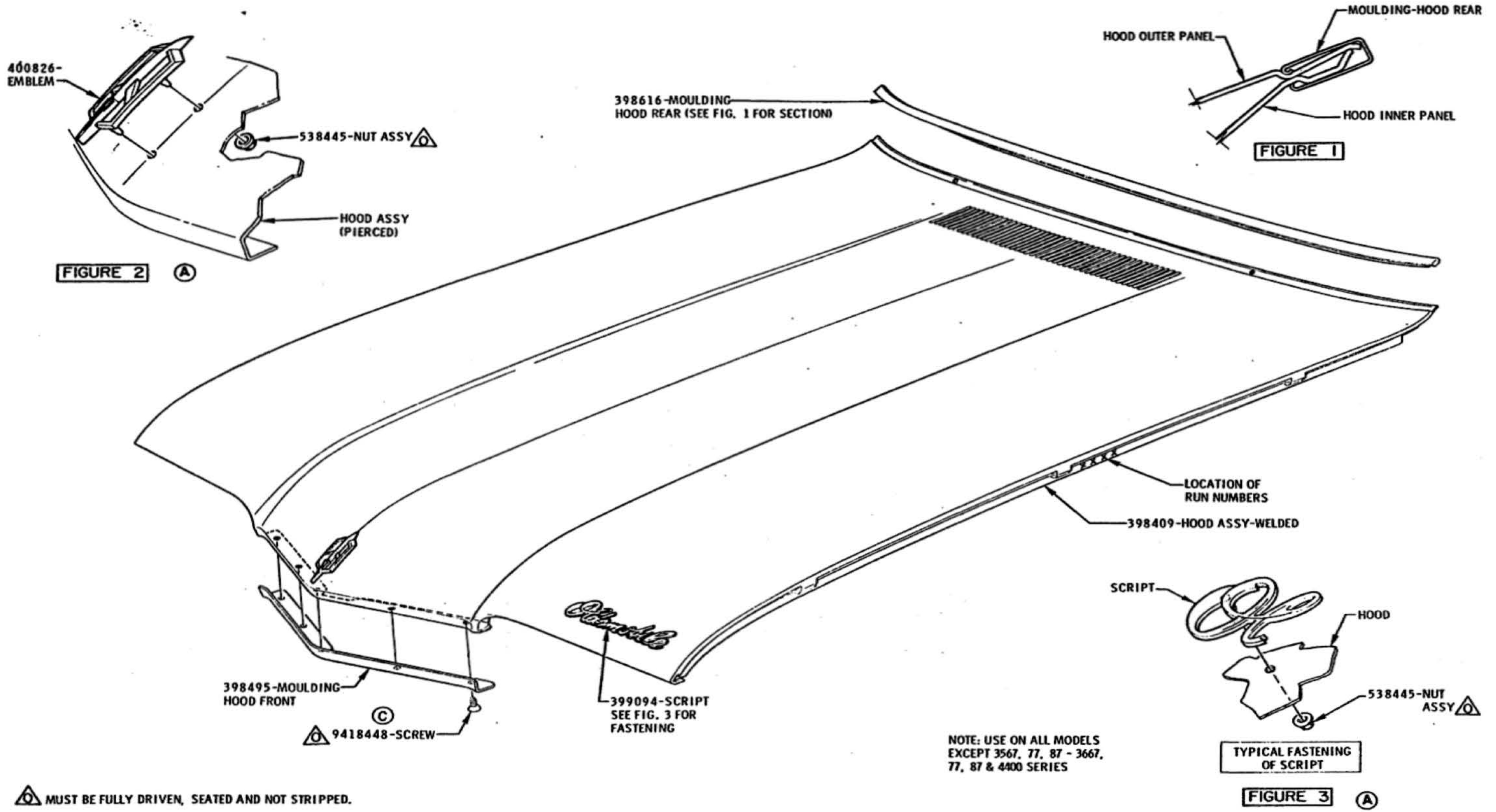
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					9-14-67	J	WAS 3891800-SCREW	PH	DT	4-13-67	E	WAS 3919042 BRACKET	PL	DT								FENDER, TIE BAR, FILLER PLATE & SIDE MARKER LAMP INSTALLATION				
10-31-67	M	SHIM NOTE ADDED	R	DT						4-13-67	D	WAS 441220 NUT	PL	DT								DATE FEB. 1, 1967	1968	11	142	
11-31-67	L	PART NUMBERS ADDED	R	DT	4-26-67	G	TORQUES ADDED	PH	DT	3-2-67	C	PT. NO'S ADDED	GR	DT								DR. BY G. KESTER				
10-2-67	K	WAS 898117-LUBE	PH	DT	4-27-67	F	SHIMS ADDED	PH	DT	2-6-67	A	VIEW & PT. NO'S ADDED	PL	DT								CHECKED JEM				
																						REF. 11, A, D, E 12	SERIES A	PART NO. 398162		

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

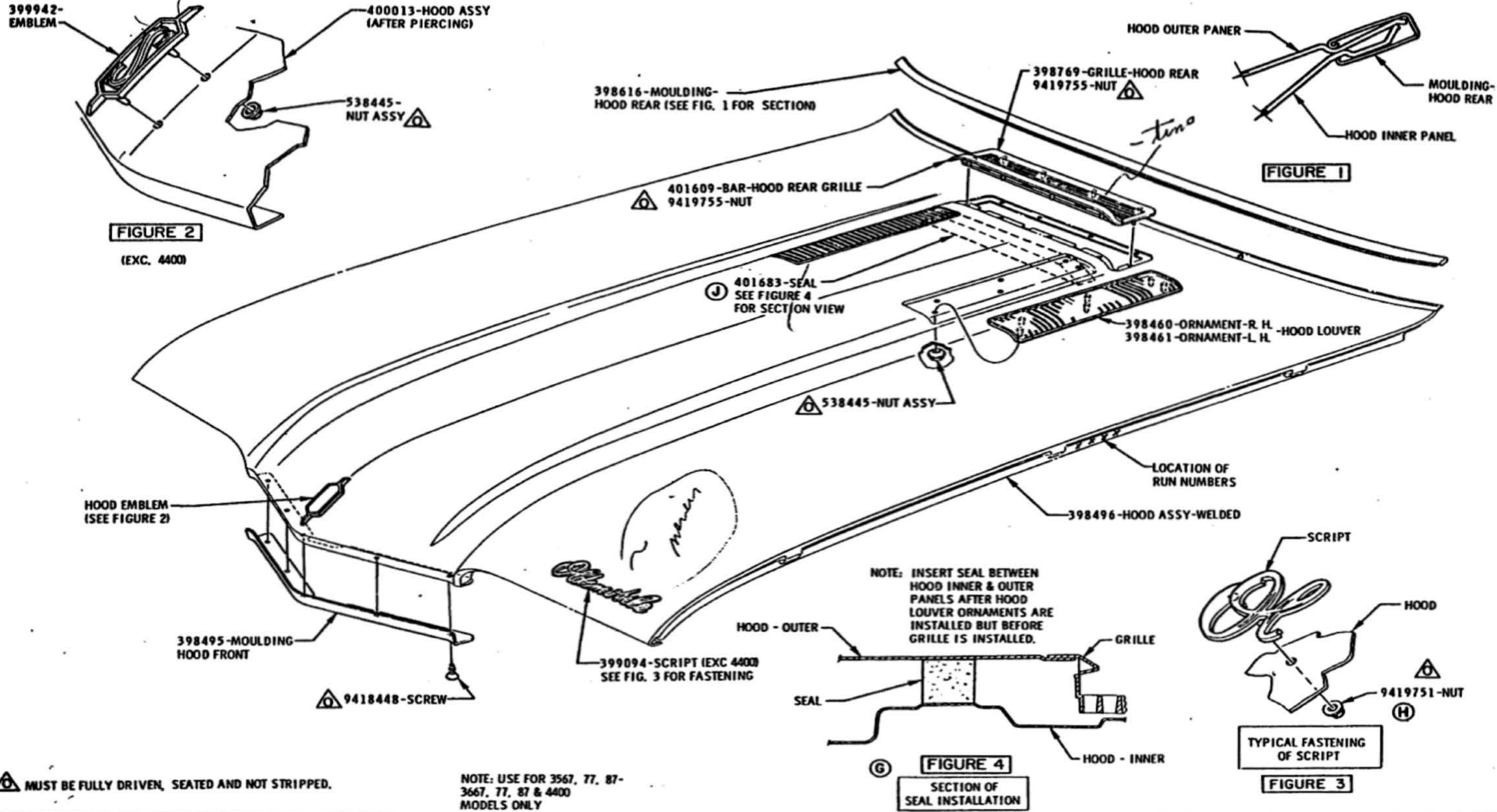


FRONT FENDER 4400

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.
					2-15-68	E	2ND. TYPE MLDG. ADDED									FENDER MOULDINGS AND ORNAMENTATION	1968		11	156	398162
					1-3-68	D	WAS 399500-1-NUMERALS									DATE JAN. 26, 1967					
					10-26-67	C	WAS 9419756-NUT									DR. BY P. J. McKESSY					
					10-11-67	B	WAS 398546-SCREW									CHECKED <i>[Signature]</i>					
					6-30-67	A	TORQUE NOTE ADDED									APPR.	REF. 35B 96 116	SERIES A			



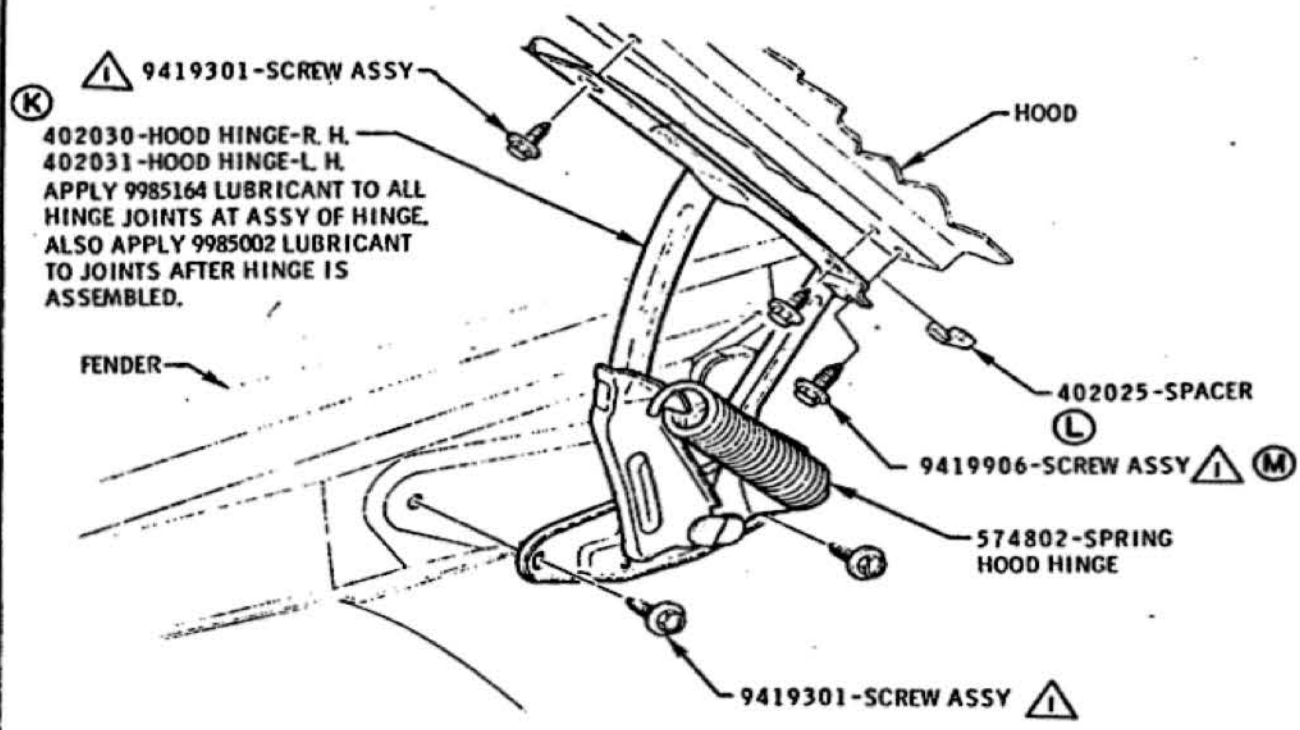
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																HOOD ASSEMBLY COMPLETE	1968		11	180
					7-19-67	C	WAS 9414752-SCREW	DP								DATE DECEMBER 29, 1966				
					6-27-67	B	TORQUE ADDED	DP								DR. BY LYNN R. TOWNS				
					3-31-67	A2	FIGURES ADDED	DP								CHECKED <i>[Signature]</i>				
																APPR. <i>[Signature]</i>	REF. 11D. 11G	SERIES A	PART NO. 398162	



△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

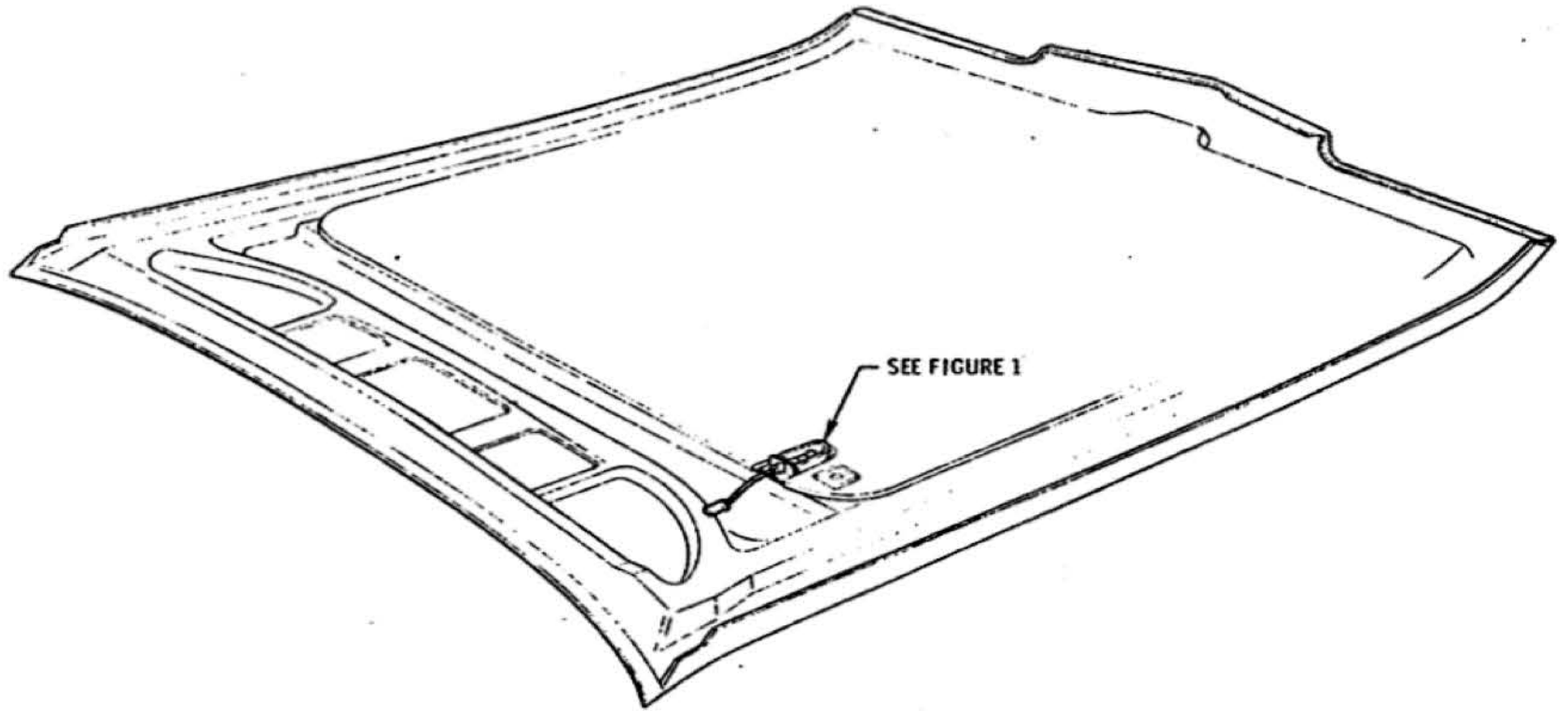
NOTE: USE FOR 3567, 77, 87-3667, 77, 87 & 4400 MODELS ONLY

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
					7-19-67	E	WAS 398769-GRILLE ASSY	P	DT							HOOD ASSEMBLY COMPLETE				
					6-27-67	D	T-REAR NOTE ADDED	B	DT							DATE DECEMBER 29, 1968	1968			
					3-31-67	C	VIEW ADDED	F	DT							DR. BY LYNN R TOWNS		OLD SMOBILE PRODUCT INFORMATION MANUAL	11	185
					2-17-67	B	WAS 538445-NUT ASSY	V	DT							CHECKED <i>[Signature]</i>				
					2-3-67	A	EMBLEM ADDED	P	DT							APPR. R. H. [Signature]				
																REF. 113 724				
																SERIES				
																A				
																PART NO.				
																398162				



402030-HOOD HINGE-R. H.
402031-HOOD HINGE-L. H.
APPLY 9985164 LUBRICANT TO ALL
HINGE JOINTS AT ASSY OF HINGE.
ALSO APPLY 9985002 LUBRICANT
TO JOINTS AFTER HINGE IS
ASSEMBLED.

INSTALLATION OF HOOD HINGE
TO HOOD AND FRONT FENDER



UNDERHOOD LAMP
INSTALLATION

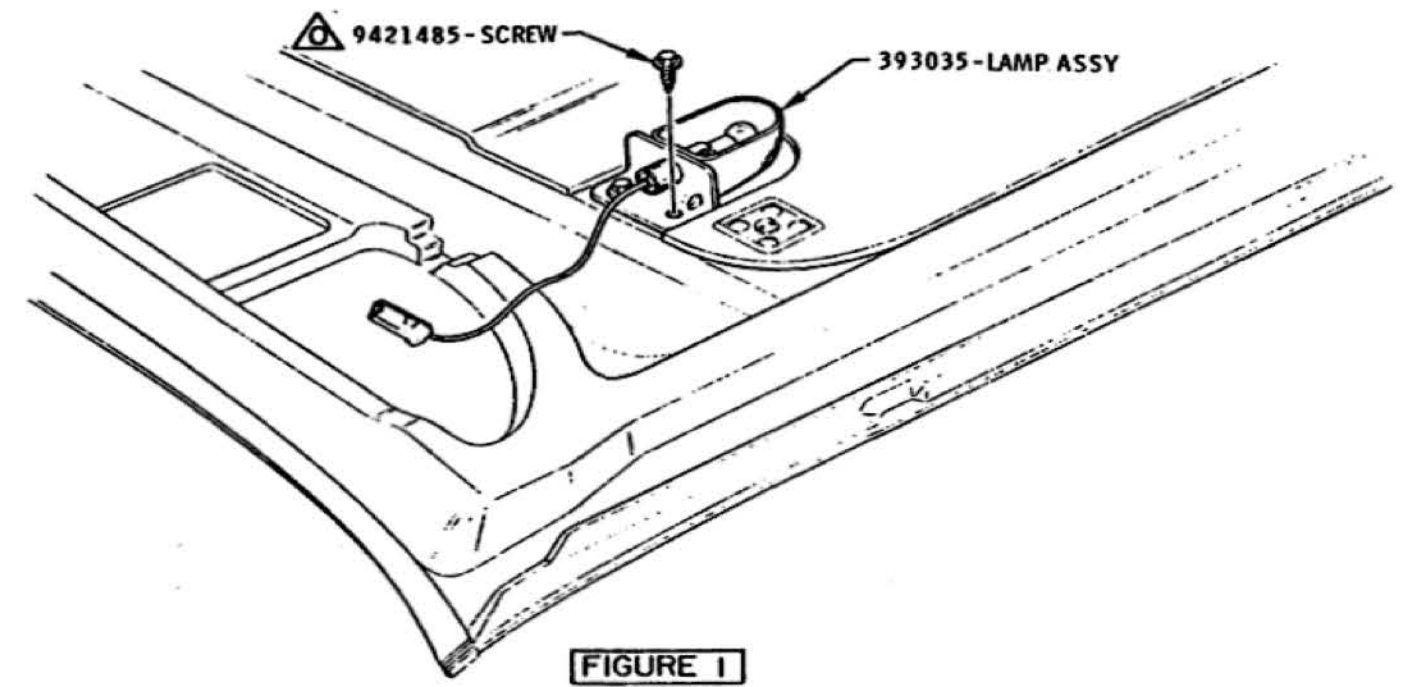


FIGURE 1

20 - 30 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	DATE	SYM	REVISION	DR	CK	TITLE	FIRST USED	GLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					10-3-67	M	TORQUE SYMBOL ADDED													TITLE HOOD HINGE AND HOOD LAMP INSTALLATION				
					9-25-67	L	PARTS ADDED													DATE FEB. 8 1967	FIRST USED			
					9-25-67	K	UNLTS W/SCREWS 2 1/2 IN. L.													DR. BY D. J. ALKESSE	1968	GLDSMOBILE PRODUCT INFORMATION MANUAL	11	187
					8-7-67	J	REVISED & REDRAWN													CHECKED	REF.			
					6-30-67	H	TORQUES ADDED													APPR.		SERIES		
																				APPR.		A		
																							PART NO.	398162

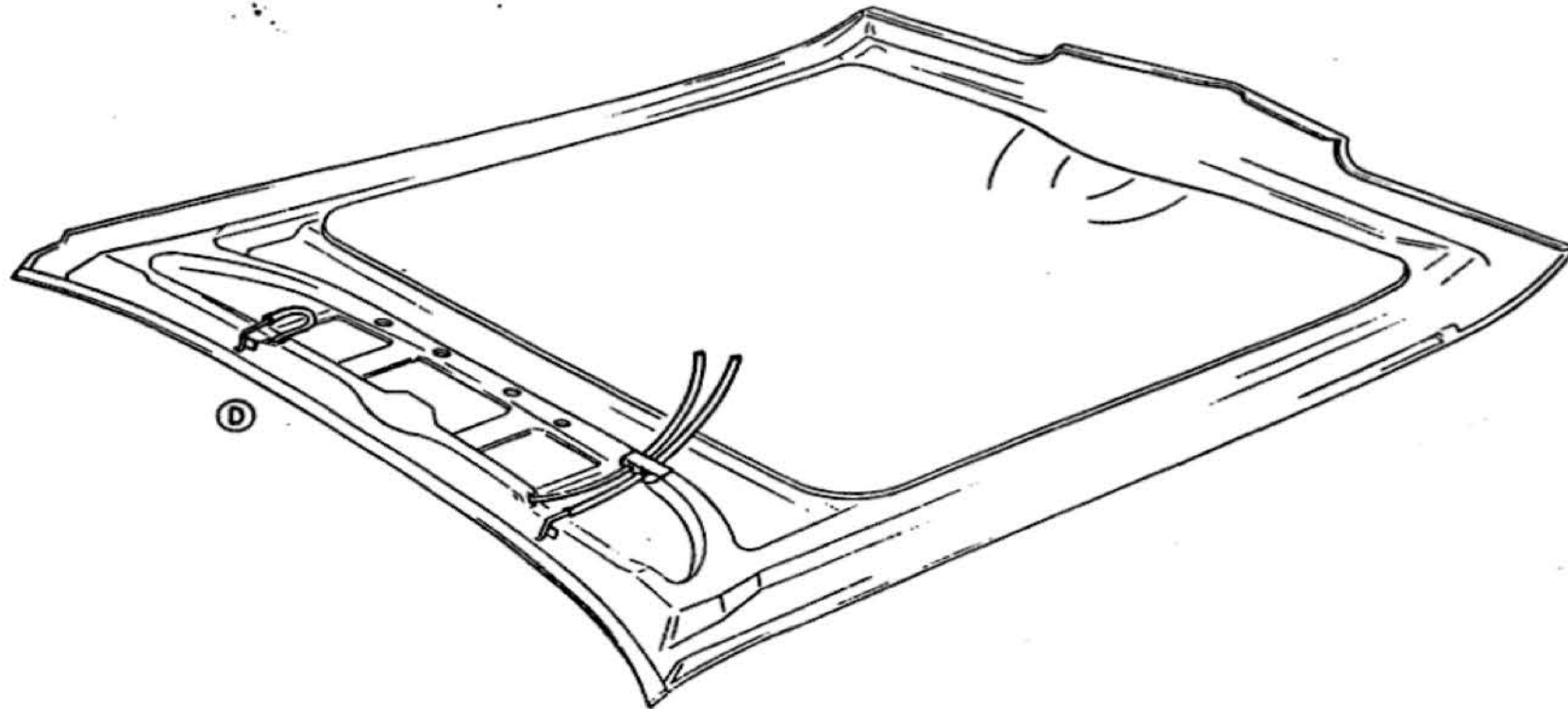
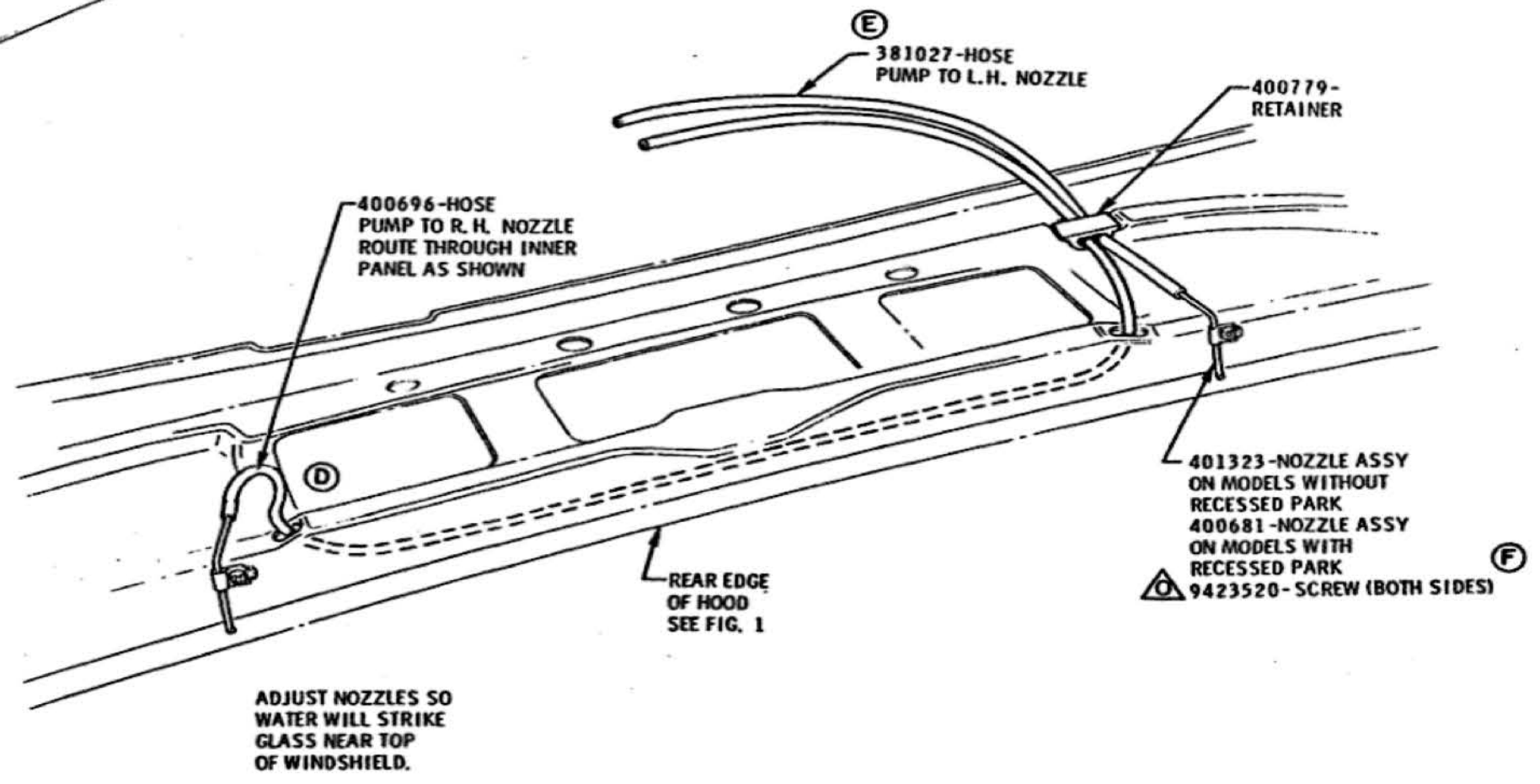
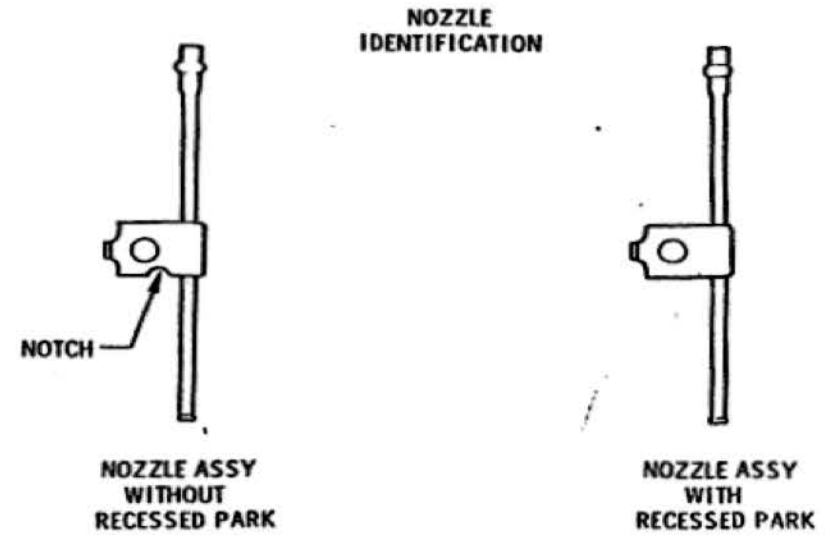


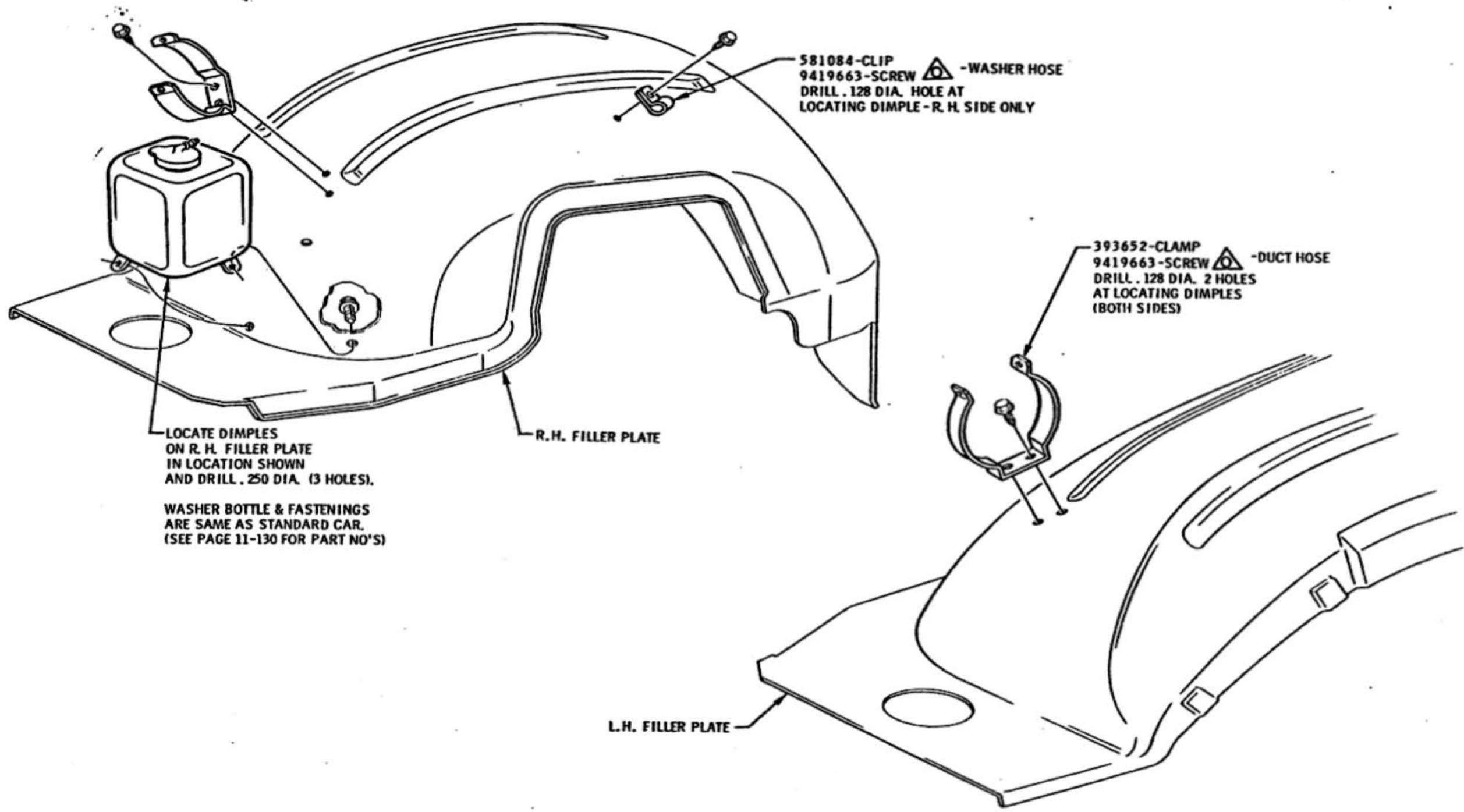
FIGURE 1
UNDER SIDE OF HOOD



ADJUST NOZZLES SO WATER WILL STRIKE GLASS NEAR TOP OF WINDSHIELD.

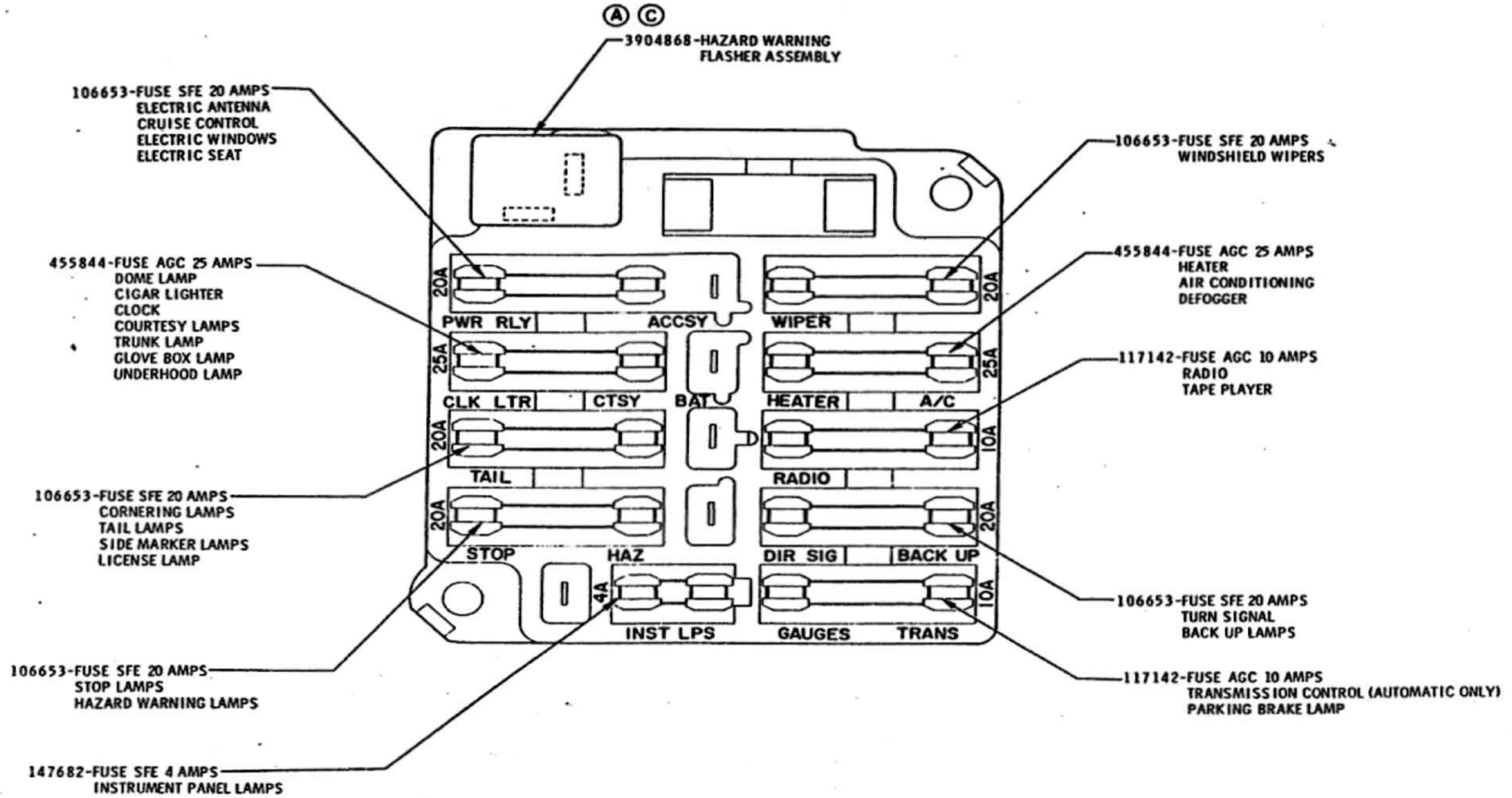
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

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
					7-6-67	E	WAS 400697-HOSE	B	DT							WINDSHIELD WASHER HOSE ROUTING (HOOD)				
					10-31-67	D2	HOSE RE-ROUTED	B	DT							DATE APR. 13, 1967	1968		11	188
					7-19-67	C	NOZZLE IDENT. AD. ED	B	DT							DR. BY BEAUDOIN				
					6-23-67	B	TORQUE NOTE ADDED	B	DT							CHECKED J. J. J.				
					1-9-68	F	WAS 9419699 SCREW	B	DT	6-9-67	A	WAS 400681-NOZZLE ASSY	B	DT		APPR.	REF. 1A2D	SERIES A	PART NO. 398162	



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

										TITLE AIR INDUCTION SYSTEM (35W30)					
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SECTION	PAGE	
										JULY 23, 1967	1968	INFORMATION MANUAL	11	501	
										DR. BY	REF.	SERIALS	PART NO.		
										BEAUDOIN	35-W-30	A	398162		
										CHECKED					
										APPR.					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.



REVISION										TITLE		CHART - FUSE PANEL		MANUAL SECTION	PAGE				
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	12	100
																1968			
																REF. 12 H	SERIES	PART NO.	
																	A-BC	398162-3	

OLDSMOBILE DIVISION

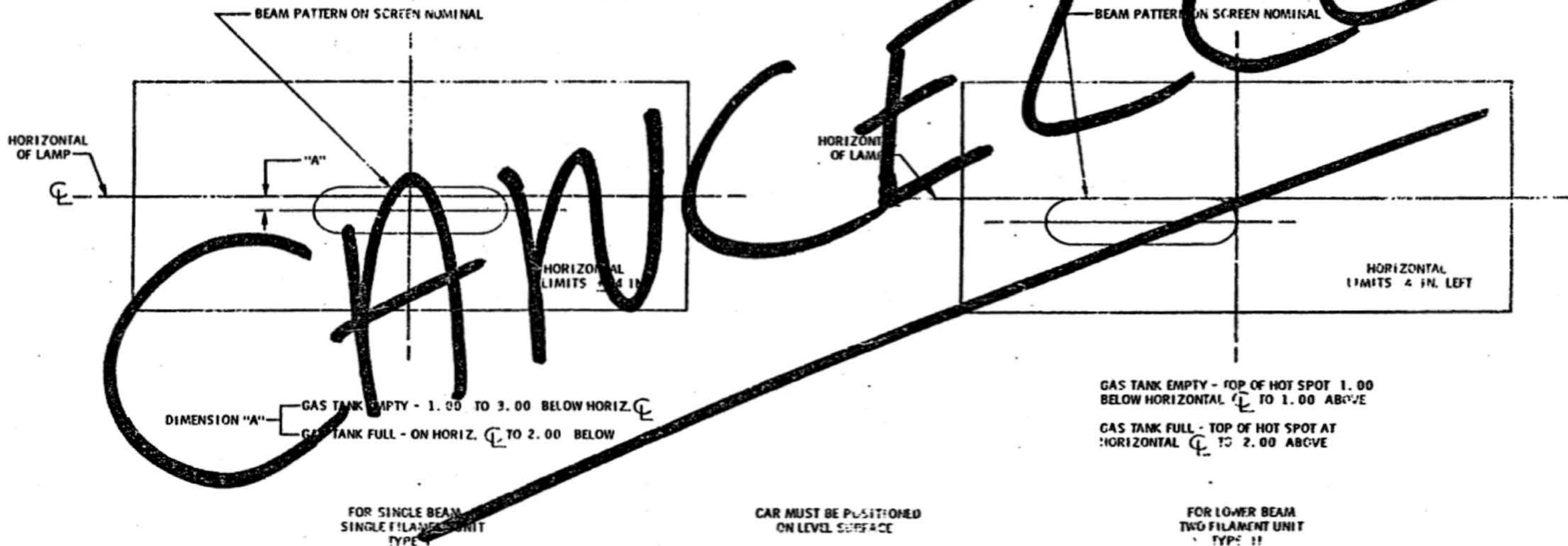
GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

9. GABRIEL, USE 1959

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	248° F. TEMP. OF ENGINE COOLANT	HOT (RED) WARNING LIGHT IN INSTRUMENT CLUSTER GOES "ON"	ENGINE COOLANT TEMP. OF LESS THAN 248° F.	IGNITION SWITCH MUST BE IN "ON" OR "START" POSITION	
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. HEATER OR A/C CONTROL LAMP 7. TAIL LAMPS 8. LICENSE LAMPS	PUSHING SWITCH KNOB IN UNTIL IT STOPS	NONE	
		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 COUNTERCLOCKWISE TO START.)			
		TURNING KNOB COUNTERCLOCKWISE	1. INTENSITY OF INSTRUMENT PANEL LIGHTS INCREASES 2. DOME LAMPS COME ON. (AT EXTREME END OF TRAVEL)			
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	
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			

TITLE												CHART - ELECTRICAL SWITCH OPERATION		SHEET 1 OF 4							
DATE						OCT. 10, 1967						FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. PAGE		12 106	
DR. BY						DON MALKIN						CHECKED		APPR.		SERIES		PART NO.		402454	
DATE						SYM						REVISION		DR. CK.		DATE		SYM		REVISION	

HEADLAMP AIMING
EXPORT
FOR LEFT RULE OF ROAD



THE ABOVE AIMING INSTRUCTIONS APPLY WITH A 25 FT. DISTANCE BETWEEN THE VEHICLE HEADLIGHTS AND THE AIMING SURFACE.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	CHART - HEADLAMP FOCUS (EXPORT)	MANUAL SEC.	PAGE
																DATE MARCH 6, 1967	FIRST USED 1968	12	106
																DR. BY R.R. STANLAKE	OLDSMOBILE PRODUCT INFORMATION MANUAL		
																CHECKED J.N. AMES	REF.	SERIES ABCE	PART NO. 400786
																APPR.			

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

9-54886A, REV. 1967

SWITCH	LOCATION	ACTIVATED BY	RESULT OF ACTIVATING SWITCH	SWITCH IS DEACTIVATED BY	QUALIFYING CONDITIONS	NOTES
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 START 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 AND 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 START 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 START SWITCH IS ADJUSTED.
HORN BUTTON DELUXE WHEEL	(2) IN STEERING WHEEL SHROUDS	PUSHING BUTTON IN	HORNS BLOW	BUTTON MUST BE HELD IN. SPRING PRESSURE RELEASES	NONE	
HORN BUTTON STD. AND N-34 WHEEL	CENTER OF STEERING WHEEL HUB	PUSHING BUTTON IN	HORNS BLOW	BUTTON MUST BE HELD IN. SPRING PRESSURE RELEASES	NONE	
POWER ANTENNA SWITCH	UNDERSIDE OF CONTROL PANEL ABOVE RADIO OPENING	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			
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 (LEFT)	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 (RIGHT)	CONVERTIBLE TOP GOES DOWN			
POWER REAR WINDOW SWITCH (STATION WAGONS)	SAME AREA AS POWER ANTENNA & DEFOGGER SWITCH	PUSHING "UP" SIDE OF SWITCH (LEFT)	REAR WINDOW GOES "UP"	SWITCH MUST BE HELD IN EITHER "UP" OR "DOWN" POSITION. SPRING LOADING BRINGS SWITCH TO NEUTRAL POSITION.	IGNITION SWITCH MUST BE IN "ON" OR "ACCESSORY" POSITION	
		PUSHING "DOWN" SIDE OF SWITCH (RIGHT)	REAR WINDOW GOES "DOWN"			
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)
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
PARK BRAKE SWITCH	MOUNTED ON PARK BRAKE ASSEMBLY	POSITIONING PARK BRAKE TO SECOND CLICK	BRAKE WARNING LIGHT IN INSTRUMENT PANEL COMES ON	RELEASING PARK BRAKE BY PULLING RELEASE LEVER. SPRING PRESSURE RETURNS PEDAL.	IGNITION SWITCH MUST BE IN THE "ON" POSITION	

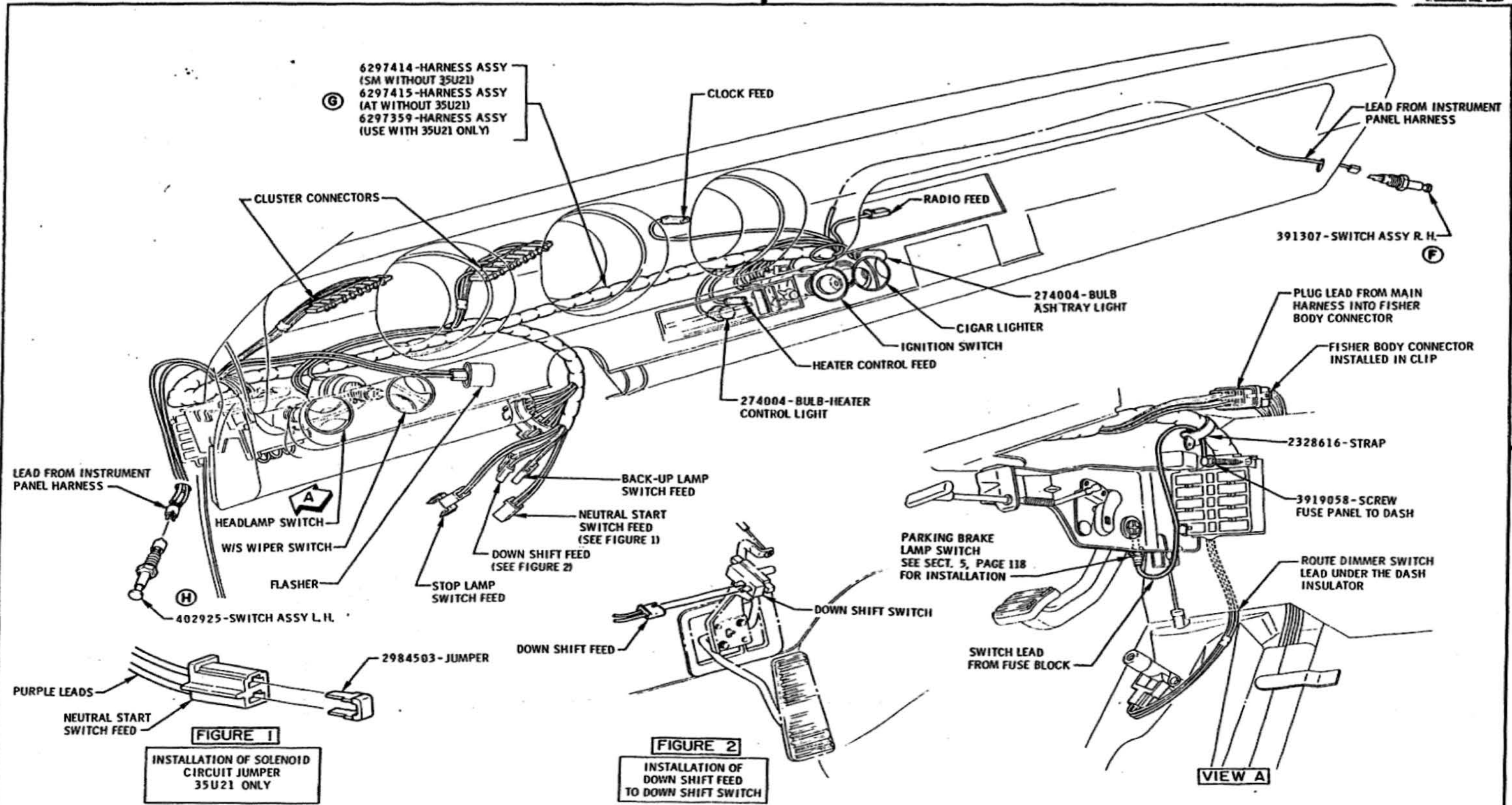
TITLE										CHART - ELECTRICAL SWITCH OPERATION										SHEET 2	
DATE OCT. 23, 1967										FIRST USED										1968	
OR BY DON MALKIN										OLDSMOBILE PRODUCT										MANUAL SEC. PAGE	
CHECKED J. Fines										INFORMATION MANUAL										12 107	
APPR. J. K. Yell										SERIES										A	
DATE										PART NO.										402454	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.		

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

SWITCH	LOCATION	ACTIVATED BY	RESULT OF ACTIVATING SWITCH	SWITCH IS DEACTIVATED BY	QUALIFYING CONDITIONS	NOTES
SAFETY SENTINEL WARNING SWITCH	INTEGRAL WITH SAFETY SENTINEL CLUSTER	SPEEDOMETER NEEDLE REACHING THE POSITION OF THE ADJUSTABLE SPEED INDICATOR NEEDLE	SAFETY SENTINEL BUZZES	SPEEDOMETER NEEDLE FALLING BELOW INDICATOR NEEDLE	IGNITION SWITCH MUST BE IN THE "ON" POSITION	
GLOVE BOX LAMP SWITCH	1. L.H. UPPER CORNER OF GLOVE BOX ON VERTICAL SURFACE 2. FORWARD SIDE OF GLOVE BOX OPENING IN CONSOLE (D-55 ONLY)	OPENING GLOVE BOX DOOR	LIGHT IN GLOVE BOX COMES ON	CLOSING GLOVE BOX DOOR	NONE	
MAP LAMP SWITCH	INTEGRAL WITH MAP LAMP	MOVING SWITCH LEVER TO THE REAR	MAP LAMP & COURTESY LAMPS COME ON	MOVING LEVER FORWARD	NONE	
HEATER SWITCH (MASTER) & 35C60 A/C SWITCH (MASTER)	ON HEATER OR HEATER-A/C CONTROL	POSITIONING CONTROL LEVER TO ANY POSITION BUT "OFF"	BLOWER MOTOR OPERATES	POSITIONING "OFF" BUTTON FORWARD (IN)	IGNITION SWITCH MUST BE IN "ON" OR "ACCESSORY" POSITION	
BLOWER MOTOR SWITCH	ON HEATER OR HEATER-A/C CONTROL	POSITIONING KNOB TO DIFFERENT DETENTS	BLOWER SPEED CHANGES, THREE SPEEDS AVAILABLE - LOW, MEDIUM AND HIGH		IGNITION SWITCH MUST BE IN THE "ON" OR "ACCESSORY" POSITION AND MASTER SWITCH ENGAGED.	
FRONT DOOR JAMB SWITCHES	BOTH FRONT DOOR HINGE PILLARS	OPENING EITHER FRONT DOOR	COURTESY LAMPS, MAP LAMP AND DOME LAMPS COME ON.	CLOSING ONE FRONT DOOR (WHEN OTHER DOOR IS CLOSED)	NONE	DOME LAMP CAN BE TURNED ON BY TURNING HEADLAMP SWITCH. IF THIS CONDITION EXISTS, DOOR JAMB SWITCH WILL NOT SHUT OFF DOME LAMPS.
REAR DOOR JAMB SWITCHES	BOTH REAR DOOR HINGE PILLARS	OPENING EITHER REAR DOOR	1. DOME LAMPS COME ON	CLOSING ONE REAR DOOR (WHEN OTHER DOOR IS CLOSED)	NONE	
RADIO SWITCH	L.H. KNOB OF RADIO (CENTER OF INSTRUMENT PANEL)	TURNING KNOB CLOCKWISE	RADIO COMES ON	TURNING KNOB TO FULL COUNTERCLOCKWISE POSITION	1. IGNITION SWITCH MUST BE IN THE "ON" OR "ACCESSORY" POSITION. 2. STEREO TAPE MUST NOT BE ENGAGED IN TAPE PLAYER (IF SO EQUIPPED).	
STEREO TAPE PLAYER SWITCH	INTEGRAL WITH TAPE PLAYER	PUSHING TAPE INTO PLACE IN TAPE PLAYER	TAPE PLAYER COMES ON	PULLING TAPE REARWARD UNTIL IT DISENGAGES PLAYER	IGNITION SWITCH MUST BE IN THE "ON" OR "ACCESSORY" POSITION	
WINDOW REGULATOR SWITCHES	IN DOOR TRIM PADS (4) IN L.F. DOOR. (1) IN EACH OTHER DOOR.	PUSHING BUTTON UP	WINDOWS GO UP (CLOSE)	RELEASING BUTTON. SPRING PRESSURE RETURNS BUTTON TO NEUTRAL POSITION AND WINDOW STOPS MOVING.	IGNITION SWITCH MUST BE IN "ON" OR "ACCESSORY" POSITION	SWITCHES IN L.H. FRONT DOOR CONTROL ALL WINDOWS.
		PUSHING BUTTON DOWN	WINDOWS GO DOWN (OPEN)			
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 AND SEAT STOPS MOVING.	IGNITION SWITCH MUST BE IN "ON" OR "ACCESSORY" POSITION	
		PUSHING BUTTON REARWARD	L.F. SEAT MOVES REARWARD			
		PUSHING BUTTON UP	L.F. SEAT MOVES UP			
		PUSHING BUTTON DOWN	L.F. SEAT MOVES DOWN			
TRUNK LAMP SWITCH	INTEGRAL WITH TRUNK LAMP	RAISING DECK LID	TRUNK LAMP COMES ON	CLOSING DECK LID	NONE	

										TITLE		CHART - ELECTRICAL SWITCH OPERATION		SHEET 3			
										DATE <i>OCT 23, 1967.</i>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE	
										DR. BY <i>DON MALKIN</i>		1968		INFORMATION MANUAL		12 108	
										CHECKED <i>J. Jones</i>		REF.		SERIES		PART NO.	
										APPR. <i>J. Jones</i>				A		402454	
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	DATE	SYM	REVISION	DR	CK	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					9-18-67	E	WAS PAGE 111													INSTRUMENT PANEL WIRING (FRONT VIEW)	1968		12	111
1-5-68	J	FIGURE 3 REMOVED			7-7-67	D	VIEW ADDED																	
1-5-68	N	WAS 7592153-SWITCH			7-7-67	C	SWITCHES ADDED																	
1-5-68	G	HARNES NOS. REVISED			7-7-67	S	FIGURE 2 ADDED																	
1-5-68	F	NOTE REMOVED			6-6-67	A	BRAKEWIRE REROUTED																	

PART NO. 398162

SWITCH LEAD
FROM FUSE BLOCK

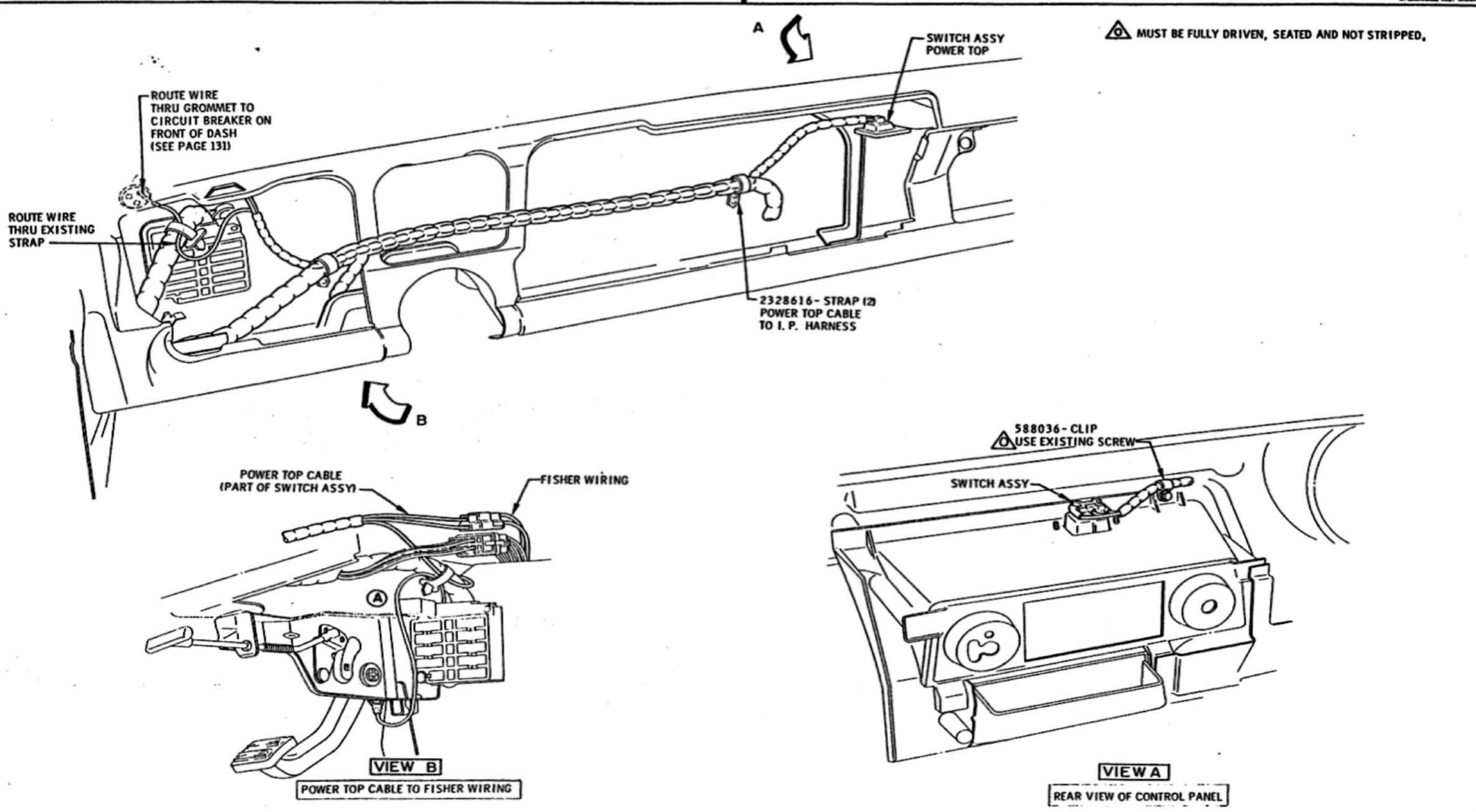
PARKING BRAKE

PARKING BRAKE
SEE SECT. 11.1
INSTALLATION

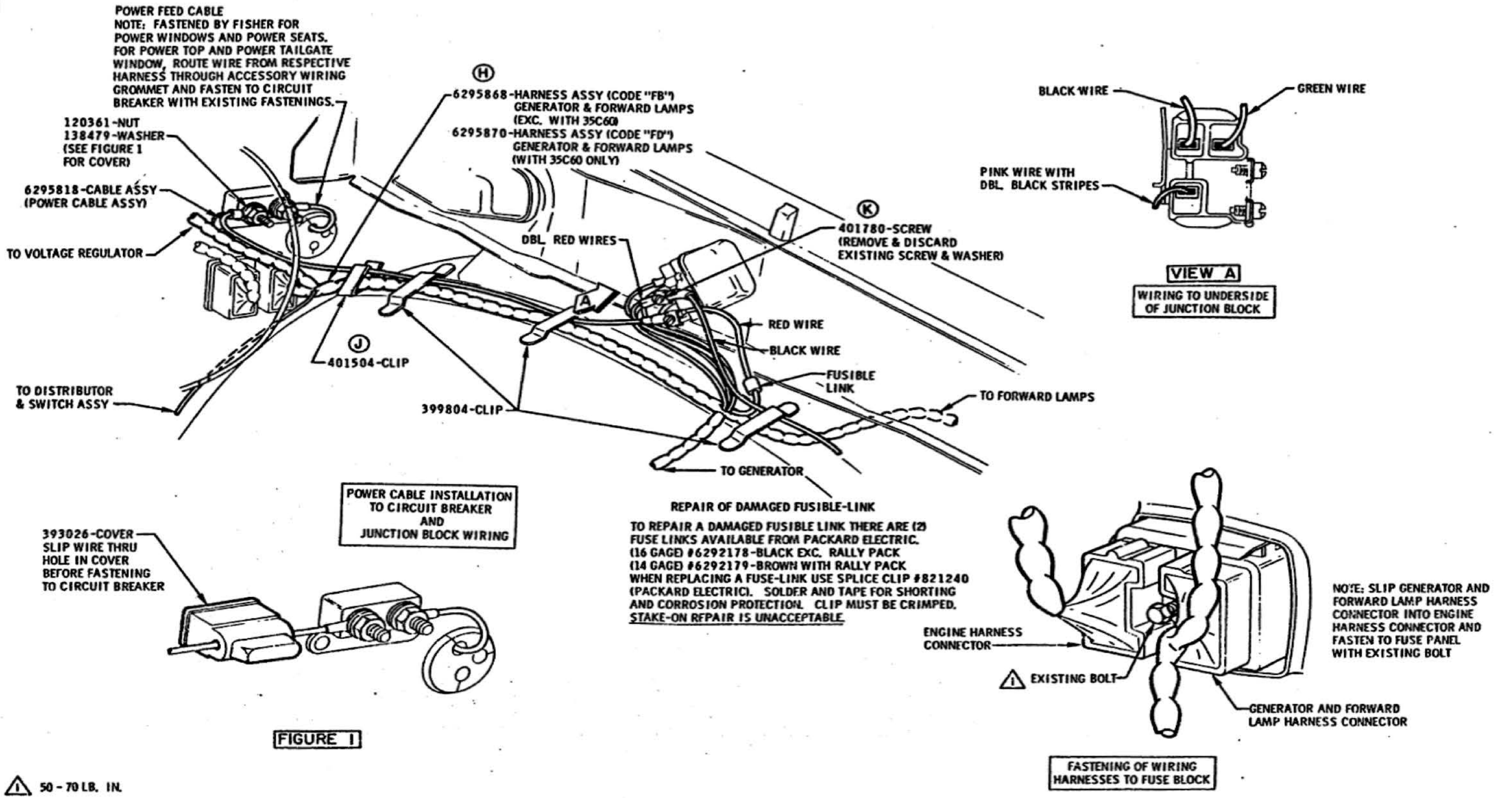
Please remove this
sheet from your
P.I.M. manual as
this information is
now covered on
page 111.

Thank you,
W. Barnhart
6/29/67

										TITLE					
										PARKING BRAKE SWITCH WIRING					
										DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
										APR 25 1967	1968		12	114	
										DR. BY P. J. McKe...					
										CHECKED					
										APPR. W. Barnhart					
										APPR.		SERIES A	PART NO. 398162		
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.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE		
																				POWER TOP WIRING	1968		12	115		
					10-9-67	B	TORQUE NOTE ADDED																			
					6-2-67	A	WIRE ROUTING REVISED																			
																					REF.	12	SERIES	A	PART NO.	398162



DATE	SYM	REVISION	CR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE					
5-10-67	K	NOTE ADDED			5-22-67	E	TORQUE ADDED	DR.		5-22-67			DR.			CIRCUIT BREAKER WIRING, FUSE PANEL CONNECTION & JUNCTION BLOCK WIRING	1968		12	131					
2-27-68	J	401504-CLIP ADDED			6-9-67	D	WAS 2987095-CABLE	DR.		6-9-67			DR.			DATE APR. 6, 1967									
10-31-67	H	HARNESS ADDED			6-9-67	C	WIEN ADDED	DR.		6-9-67			DR.			DR. BY P.J. KESSV									
9-28-67	G	NOTE ADDED			5-26-67	B	JCT. BLK. REV. TO DET.	DR.		5-26-67			DR.			CHECKED									
8-28-67	F	WIRING REVISED			5-26-67	A	FIGURE 1 REVISED	DR.		5-26-67			DR.			APPR.									
																	REF. 12H	35A31	35A33	35A91	35A96	SERIES	A	PART NO.	398162

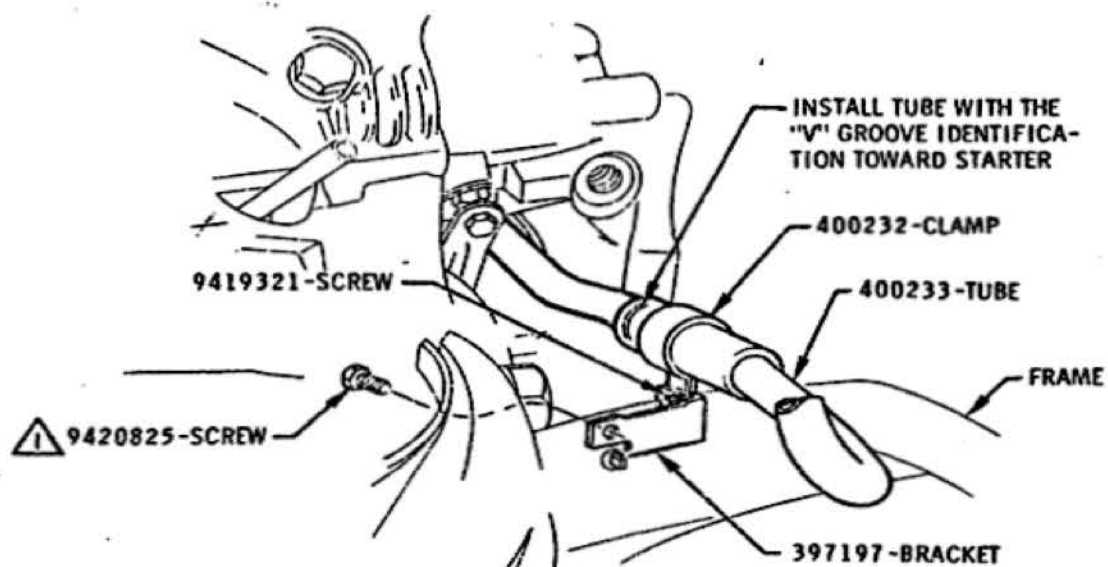


FIGURE 1
HMT STARTER
CABLE ROUTING

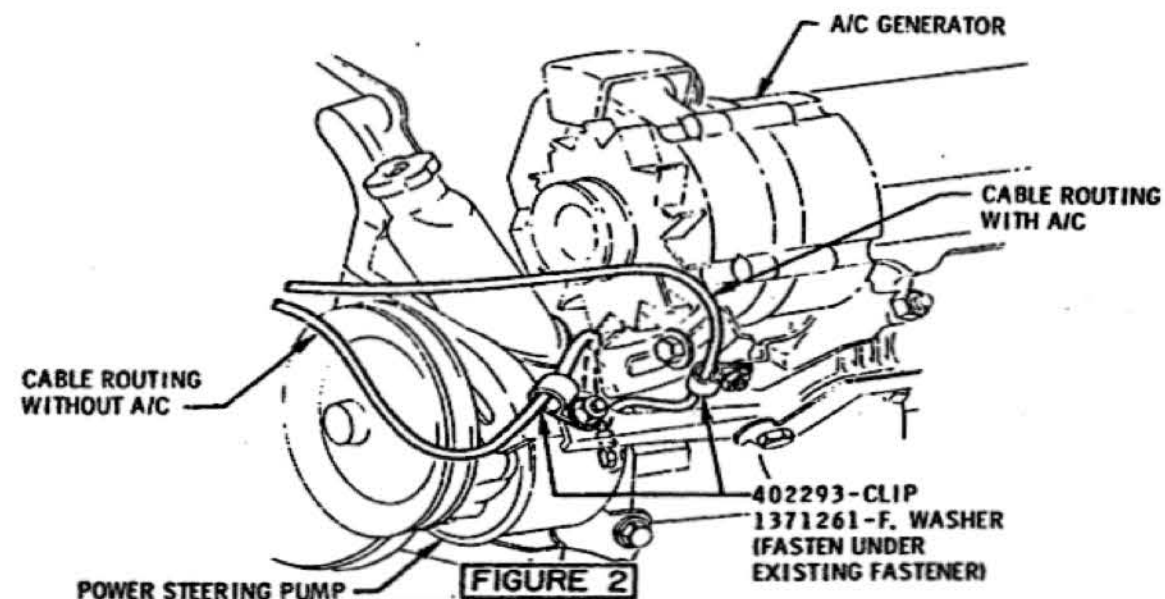
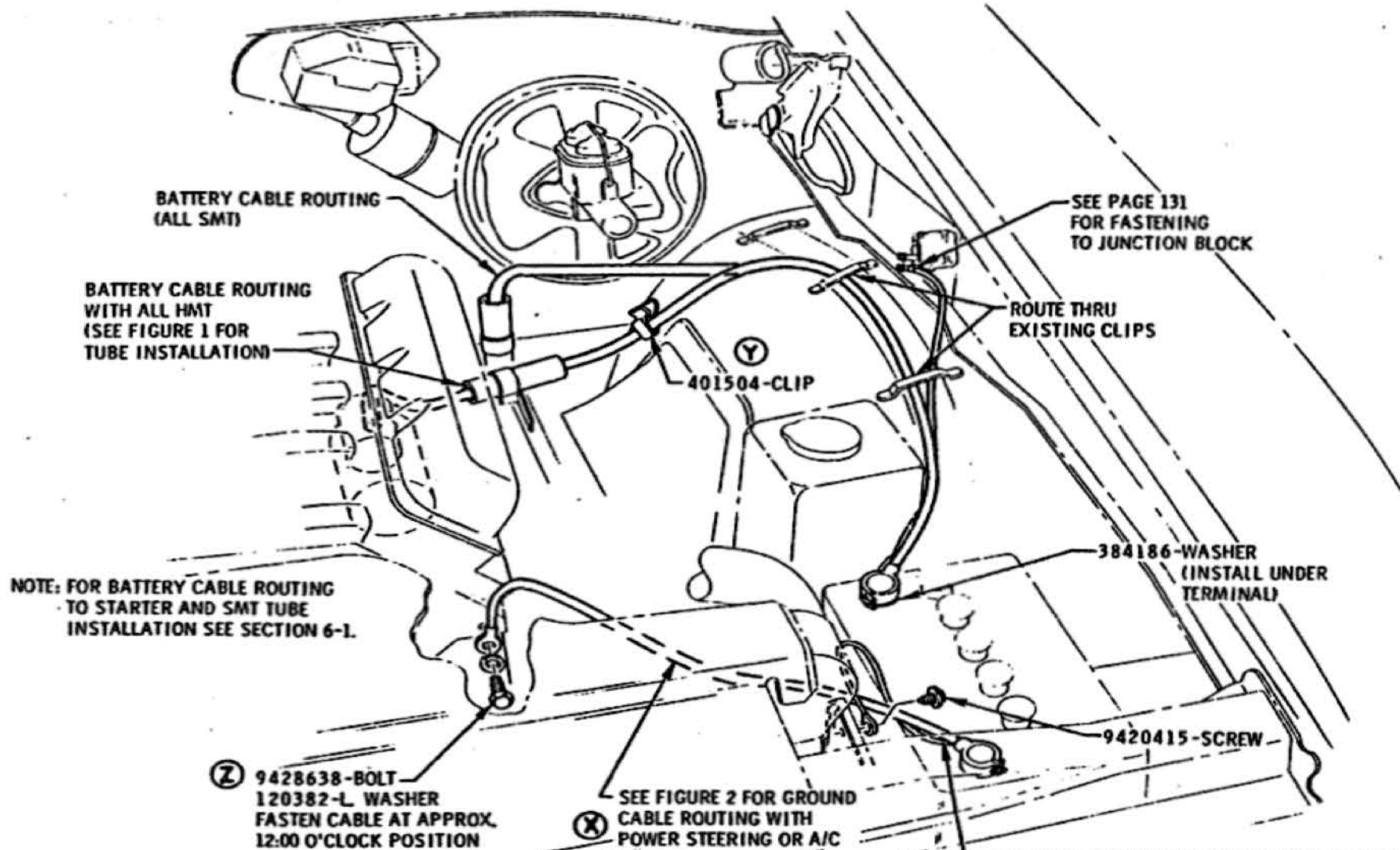


FIGURE 2
GROUND CABLE ROUTING WITH
POWER STEERING OR A/C



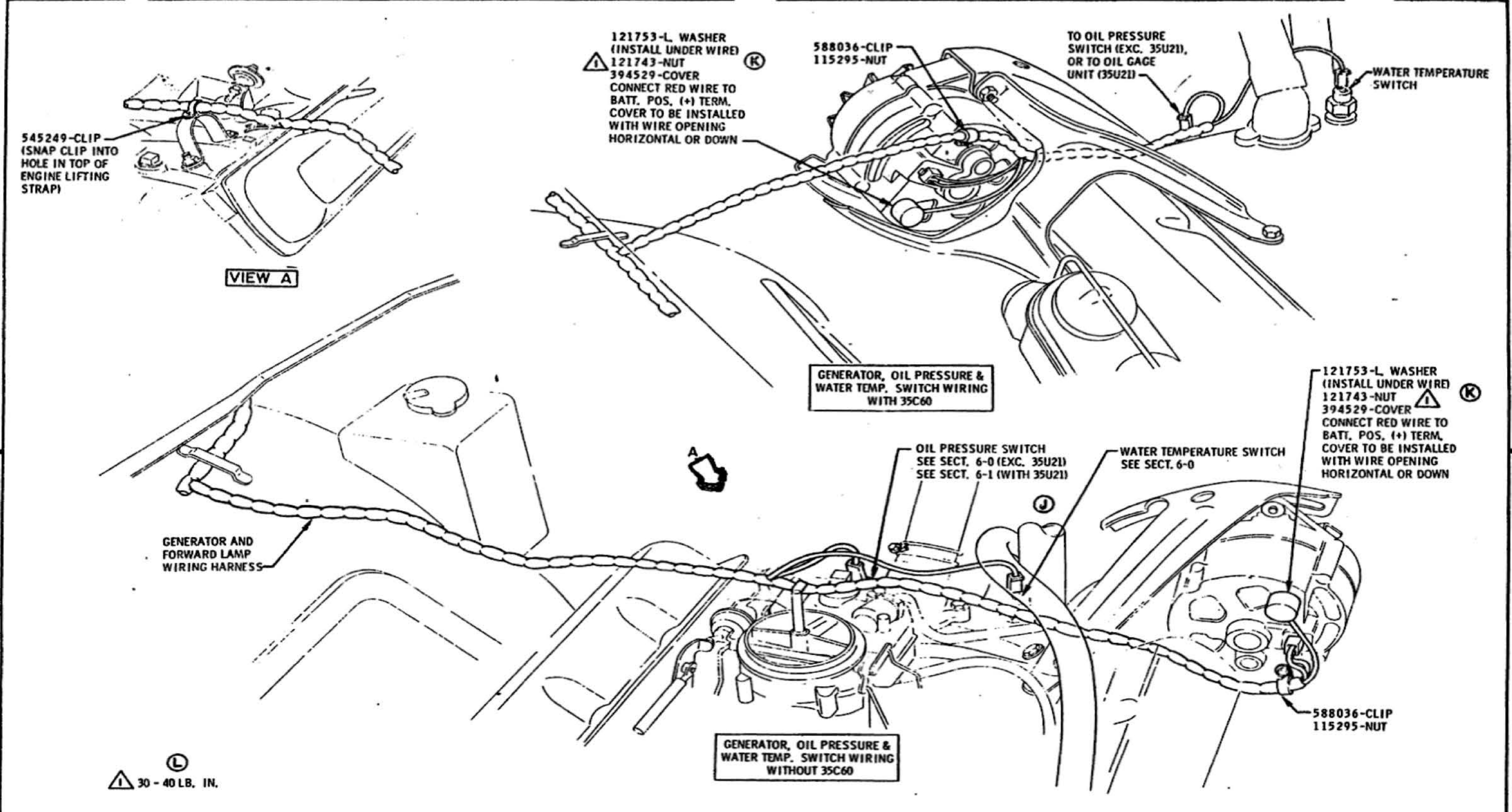
NOTE: FOR BATTERY CABLE ROUTING TO STARTER AND SMT TUBE INSTALLATION SEE SECTION 6-1.

BATTERY CABLE INSTALLATION
350 CU. IN. ENGINE
(FOR 400 CU. IN. SEE PAGE 132-A)

6296722-CABLE ASSY-GROUND (CODE "GW")
(ALL 2 BBL. ENGINES)
6296721-CABLE ASSY-GROUND (CODE "GX")
(ALL 4 BBL. ENGINES WITH AMT)

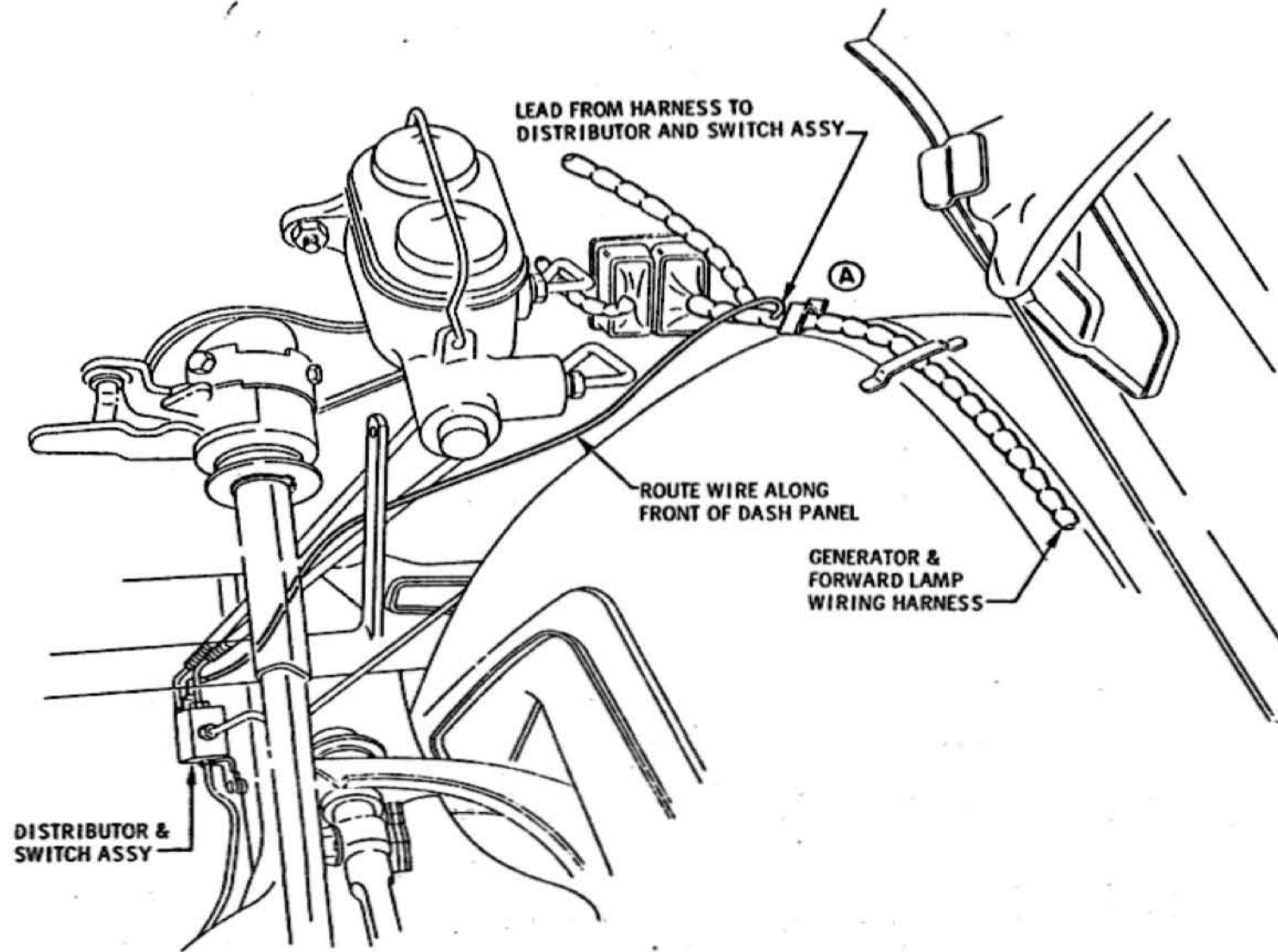
⚠ 120 - 180 LB. IN.

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
					10-31-67	V	400 CU. IN. CABLES CHANGED TO 132-A			10-31-67	LI	HARDWARE INFO ADDED TO PAGES 131-132				BATTERY CABLE ROUTING (V8)	1968		12	132
		3-19-68	Z		1-8-68	Y	WAS 122104-BOLT HAS 399569-CLIP			10-31-67	T	CABLE FASTENING REPOSITIONED				DATE MAR. 29, 1967				
		1-8-68	X ₂		1-8-68	X ₂	A/C USAGE ADDED			10-31-67	S	FIGURE 2 ADDED				DR. BY R.J. McKESSY				
		11-14-67	W				TORQUE SPEC. ADDED			9-3-67	R	WIRELESS ROUTING REVISED				CHECKED JTB				
																REF. 12 A 35M33, 34, 40				
																SERIES A				
																PART NO. 398162				

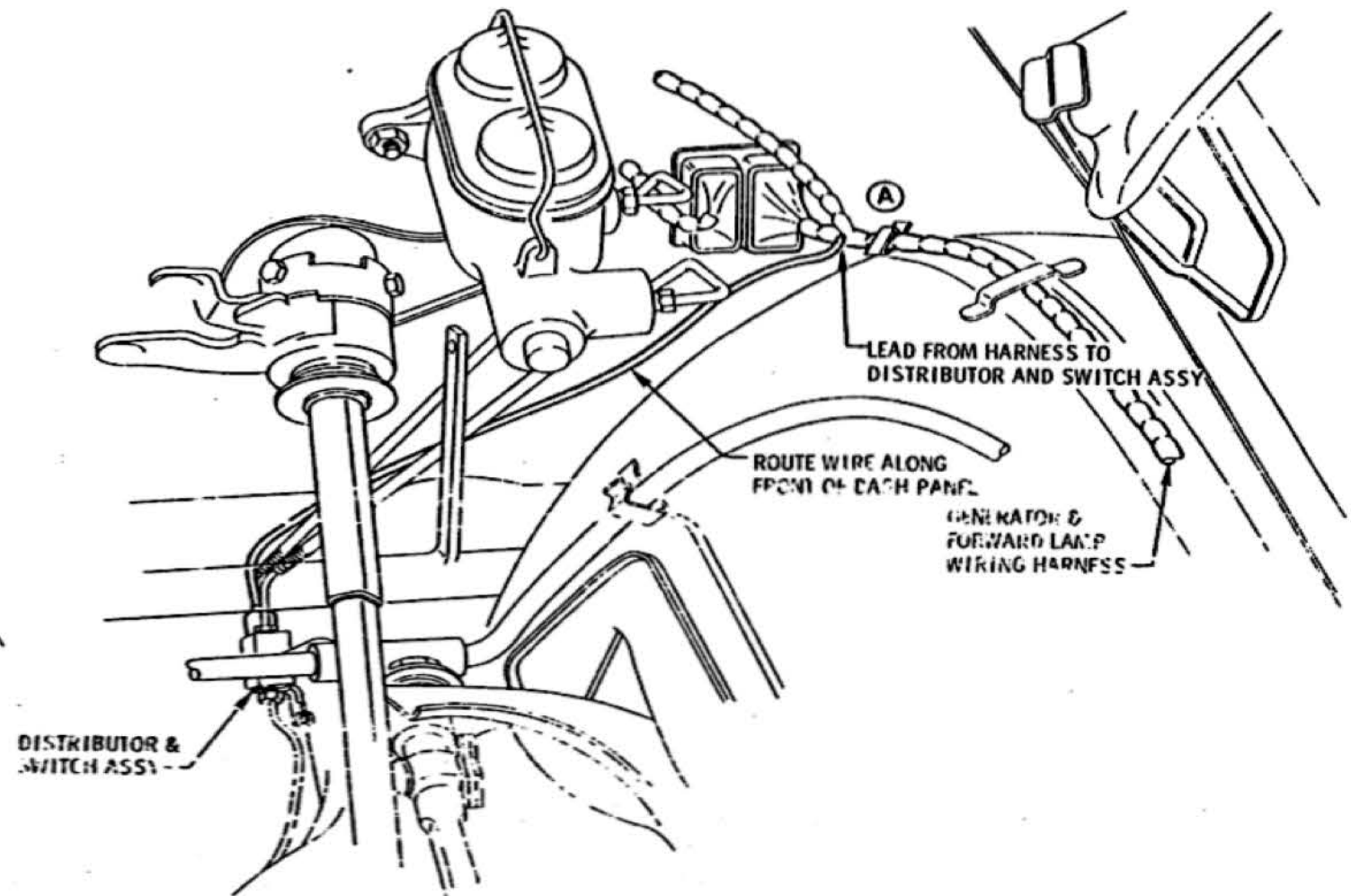


DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION
3-11-68	L	TORQUE REVISED	J	DT	3-13-67	A	TORQUE SPEC. ADDED	J	DT	7-7-67	A						
					3-11-68	K2	NOTE REVISED	P	DT	9-13-67	E	570209-CLIP REMOVED	P	DT			
					11-16-67	J	BACKGROUND REVISED	P	DT	8-2-67	D2	WAS 581364-CLIP	P	DT			
					10-29-67	H	NOSE ROUTING REVISED	P	DT	8-1-67	C1	NOTES REVISED	P	DT			
					9-13-67	G1	WIRING ROUTING REVISED	P	DT	7-19-67	B	VIEW REMOVED	P	DT			
					9-13-67	F	545249-CLIP ADDED	P	DT								

TITLE			GENERATOR, OIL & TEMP. SWITCH WIRING - V8		
DATE	MAR 31 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION
DR. BY	R.J. ARKESBY	REF.	12 N 35C60	SERIES	A
CHECKED	JTB	PART NO.	398162	PAGE	134
APPR.					

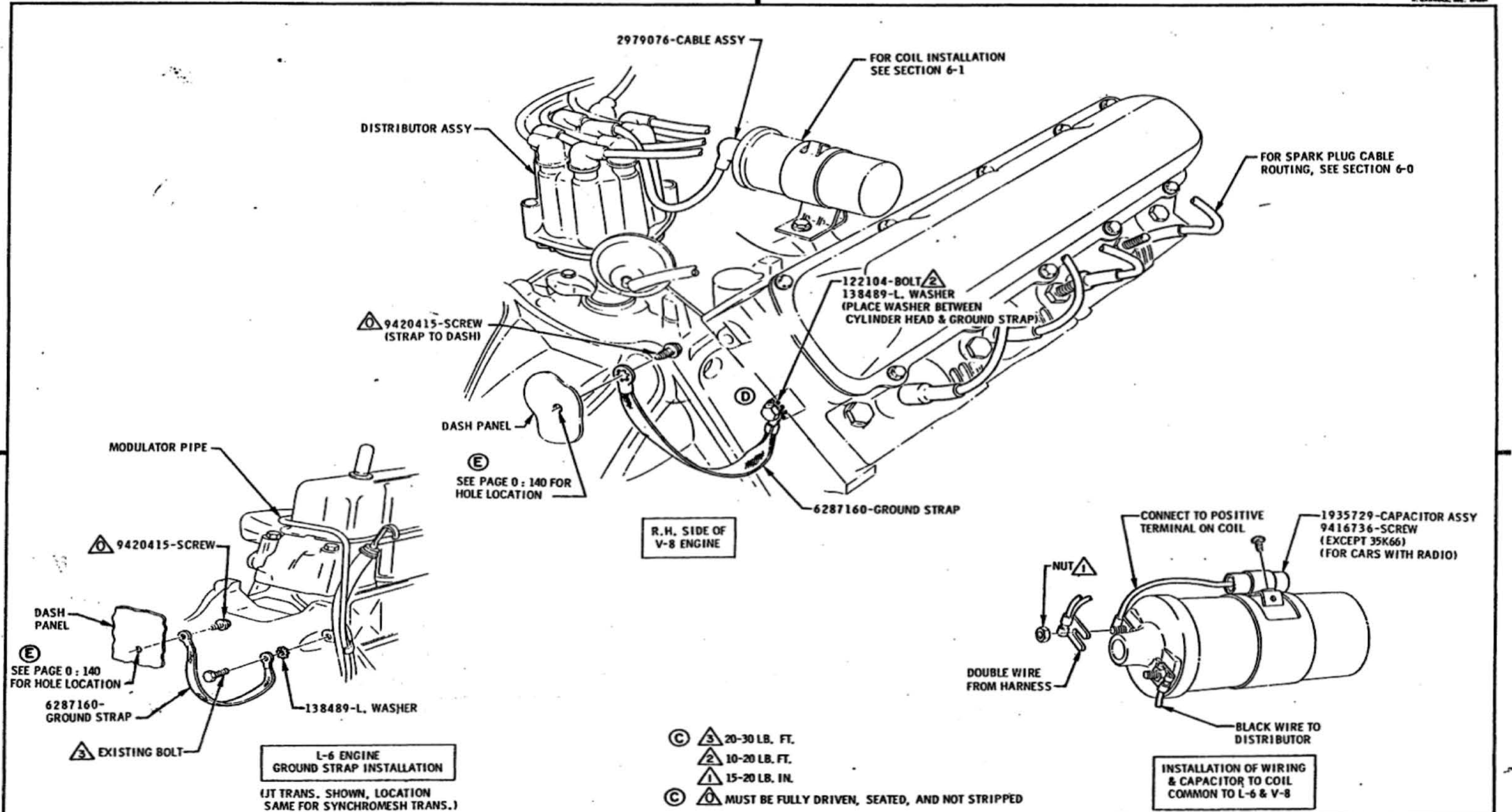


INSTALLATION OF BRAKE WARNING LIGHT WIRE TO SWITCH ASSY (I6 ONLY)

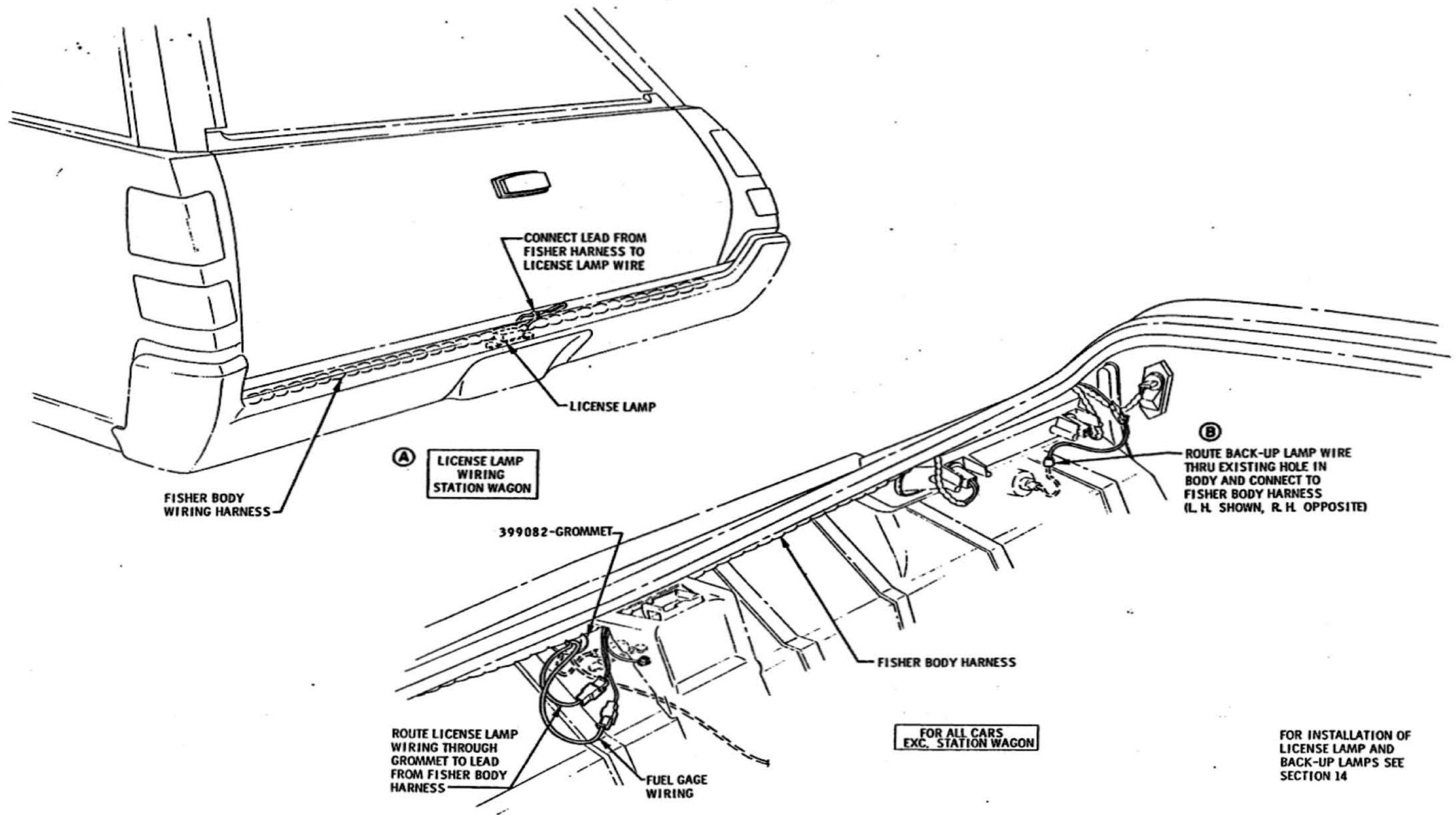


INSTALLATION OF BRAKE WARNING LIGHT WIRE TO SWITCH ASSY (V8 ONLY)

										TITLE BRAKE LINE DISTRIBUTOR & SWITCH ASSY WIRING				
										DATE APR 3 1967	FIRST USED 1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION 12	PAGE 135
										DR BY R.J. AKKESV				
										CHECKED [Signature]				
										APPR. [Signature]				
										DR. CK. [Signature]		SERIES A	PART NO. 398162	
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION
				2-27-69	A2	CLIPS ADDED								



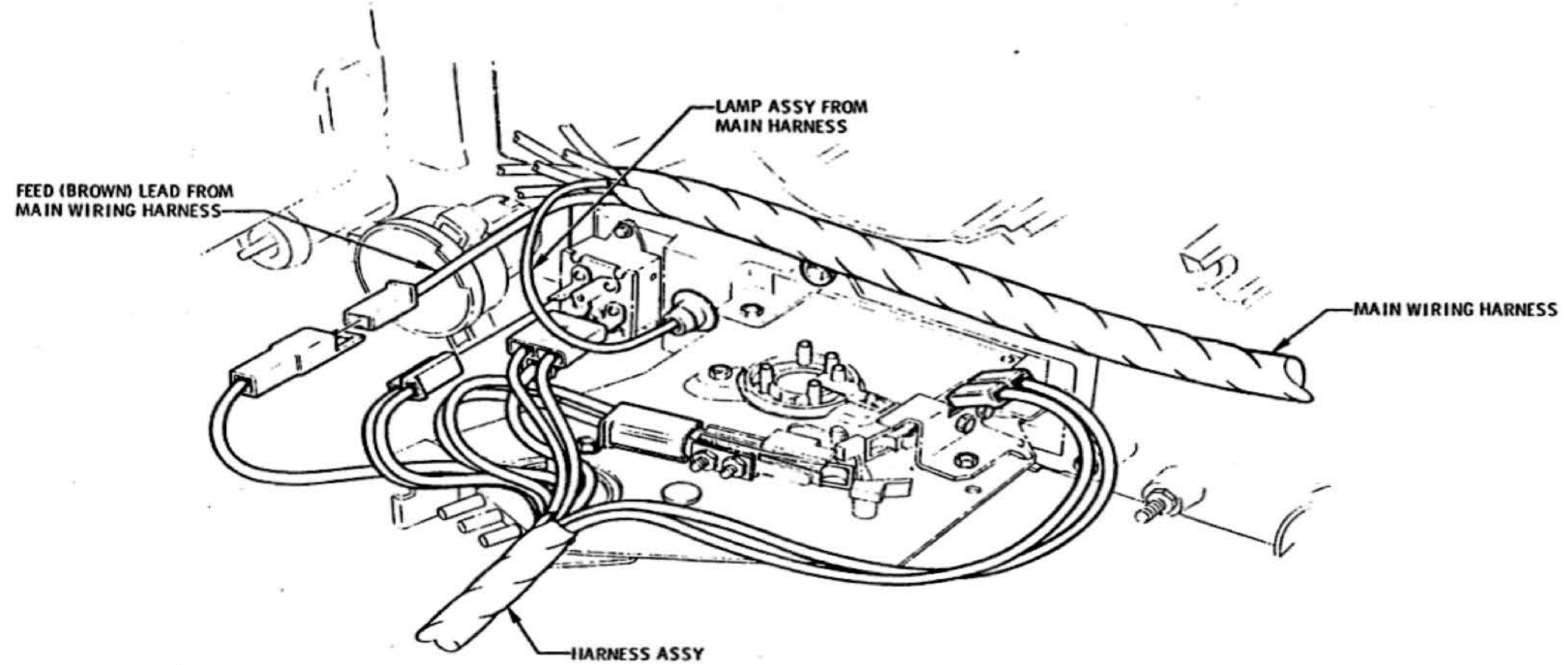
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
					12-8-67	E	NOTE REVISED (ADDED)														V-8 AND L-6 GROUND STRAP INSTALLATION AND COIL WIRING	1968		12	138
					12-8-67	D	STRAP RELOCATED														DATE APR 7 1967				
					12-8-67	C	TORQUES ADDED														DR. BY ED J. ROG				
					11-8-67	B	VIEW REVISED														CHECKED				
					7-10-67	A	TORQUE SPEC. ADDED														J13				
																					REF. 6Y	SERIES A	PART NO. 398162		
																					35063				



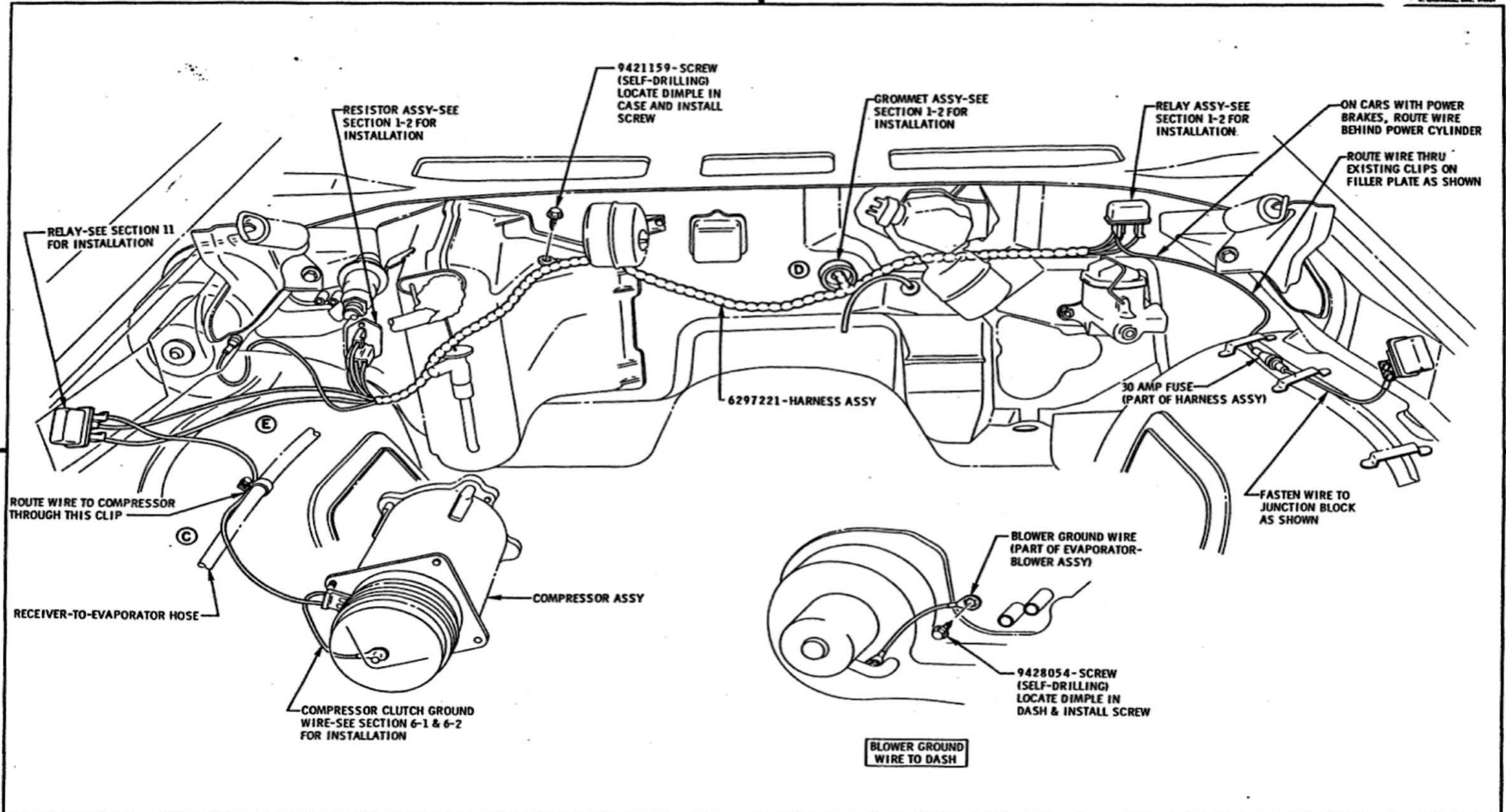
TITLE										BACK-UP & LICENSE LAMP WIRING									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
																1968		12	164
																REF. 12	SERIES	PART NO.	
																	A	398162	

5-26-67 B NOTE REVISED
5-24-67 A VIEW ADDED

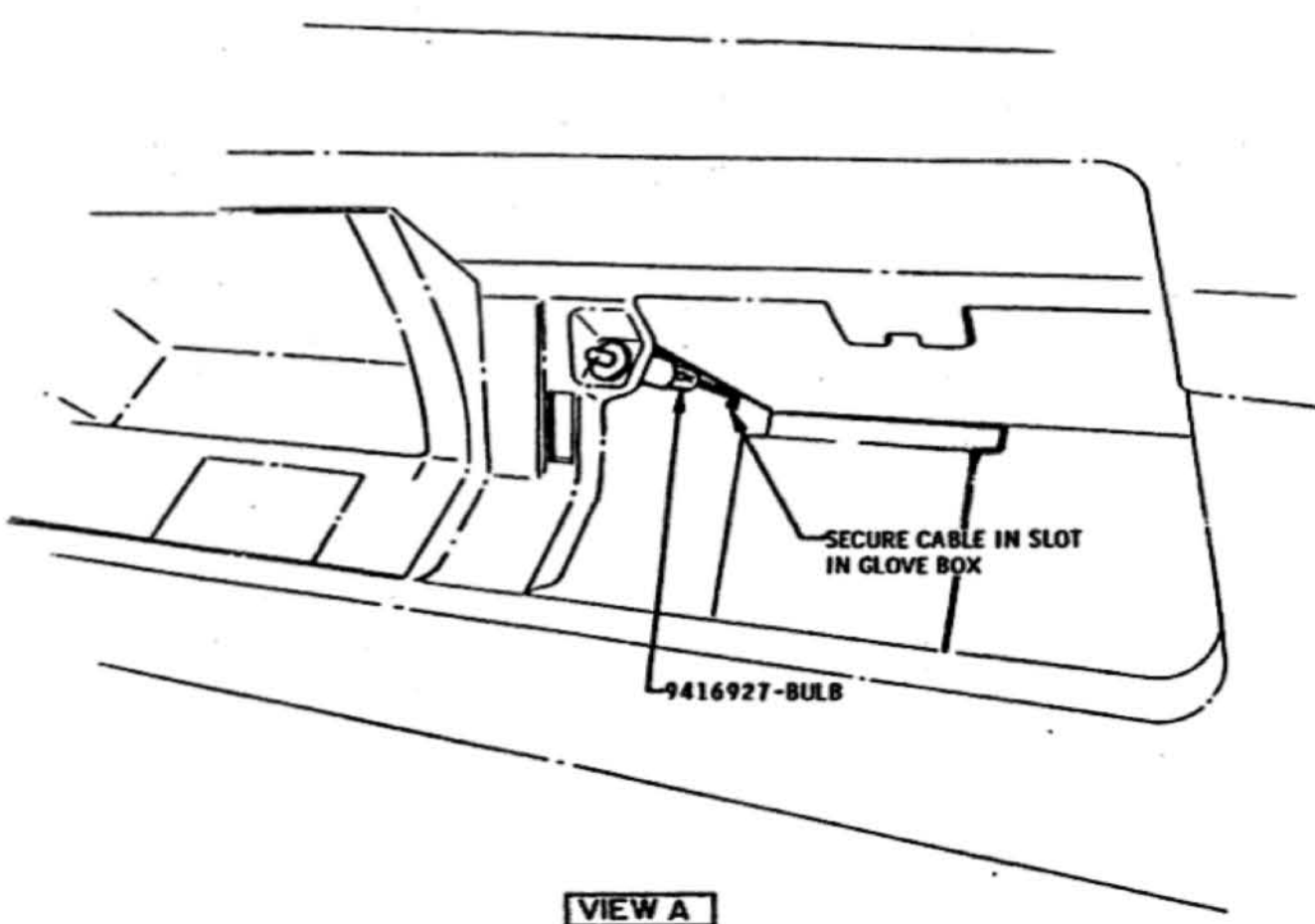
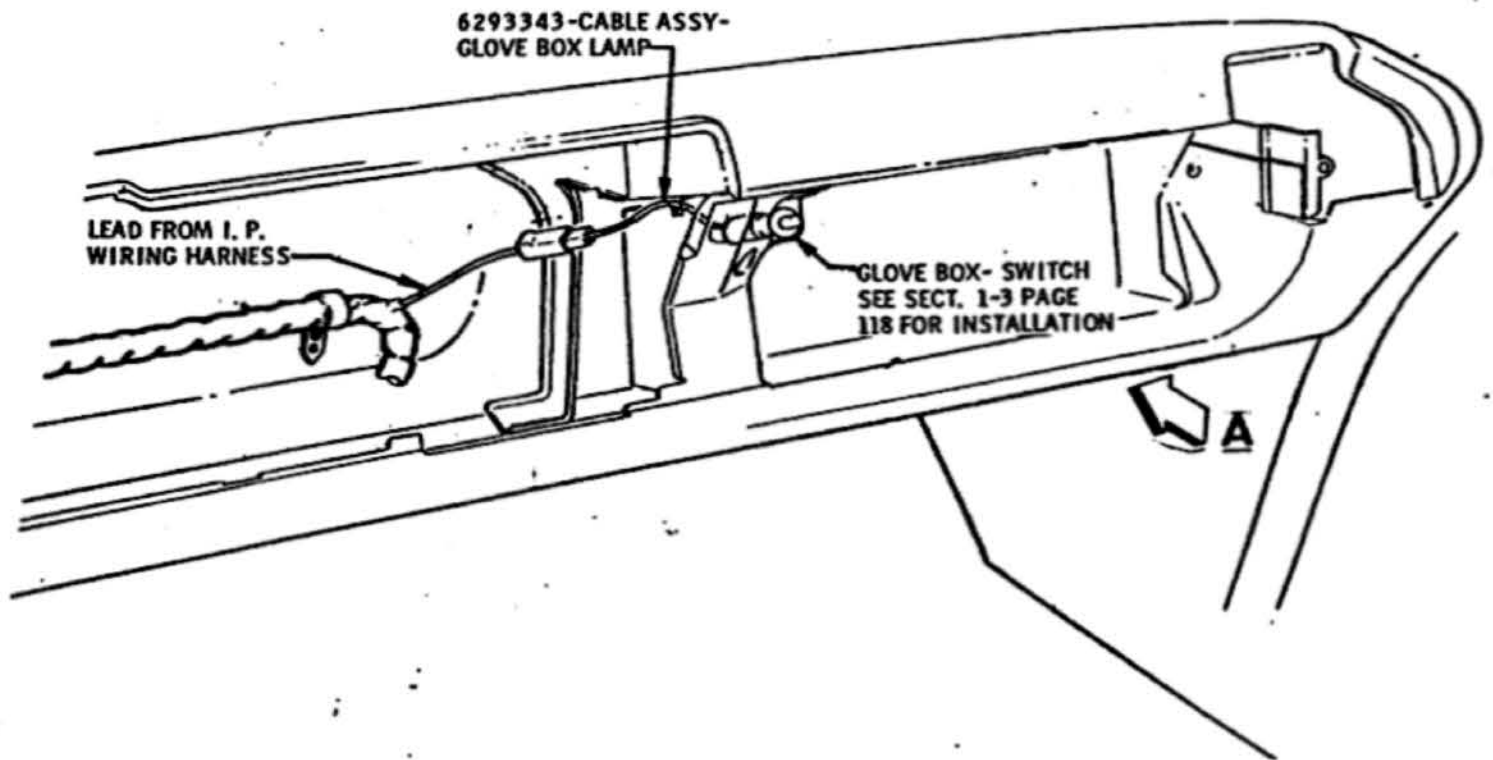
DR. BY DJ. McKESSY
CHECKED [Signature]
APPR. [Signature]



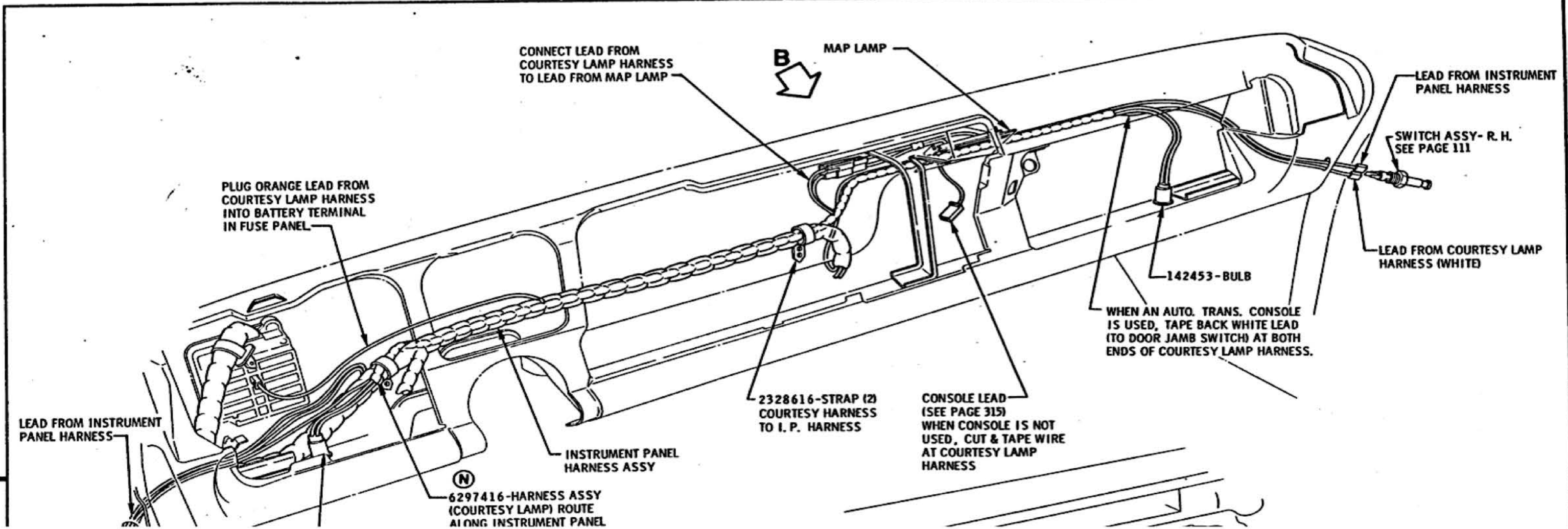
										TITLE		35C60 CONTROL WIRING							
										DATE	APR. 6, 1967	FIRST USED	1968	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	12	PAGE	215	
										DR. BY	J. BOVER	CHECKED	<i>[Signature]</i>	REF. 35C60	SERIES	A	PART NO.	398162	
										APPR.	<i>[Signature]</i>								
REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	DATE	SYM.



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
					9-21-67	E	WIRING REVISED	DT								35C60 WIRE ROUTING (ENGINE COMPARTMENT)	1968		12	230
					7-10-67	D	GROMMET REVISED	DT								DATE MAR 31 1967				
					6-23-67	C	WIRE ROUTING REVISED	DT								DR. BY W.E. MASON				
					6-19-67	B	6295407-CABLE ASSY REMOVED	DT								CHECKED JEM				
					5-19-67	A	REVISED & REDRAWN	DT								APPR. E.E. Maloney				
																REF.				
																SERIES				
																A				
																PART NO.				
																398162				



TITLE												GLOVE BOX LAMP WIRING								
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
																	1968		12	310
																	REF. 35760	SERIES A	PART NO. 398162	



LEAD FROM INSTRUMENT
PANEL HARNESS

PLUG ORANGE LEAD FROM
COURTESY LAMP HARNESS
INTO BATTERY TERMINAL
IN FUSE PANEL

CONNECT LEAD FROM
COURTESY LAMP HARNESS
TO LEAD FROM MAP LAMP

B

MAP LAMP

LEAD FROM INSTRUMENT
PANEL HARNESS

SWITCH ASSY - R. H.
SEE PAGE 111

LEAD FROM COURTESY LAMP
HARNESS (WHITE)

142453 - BULB

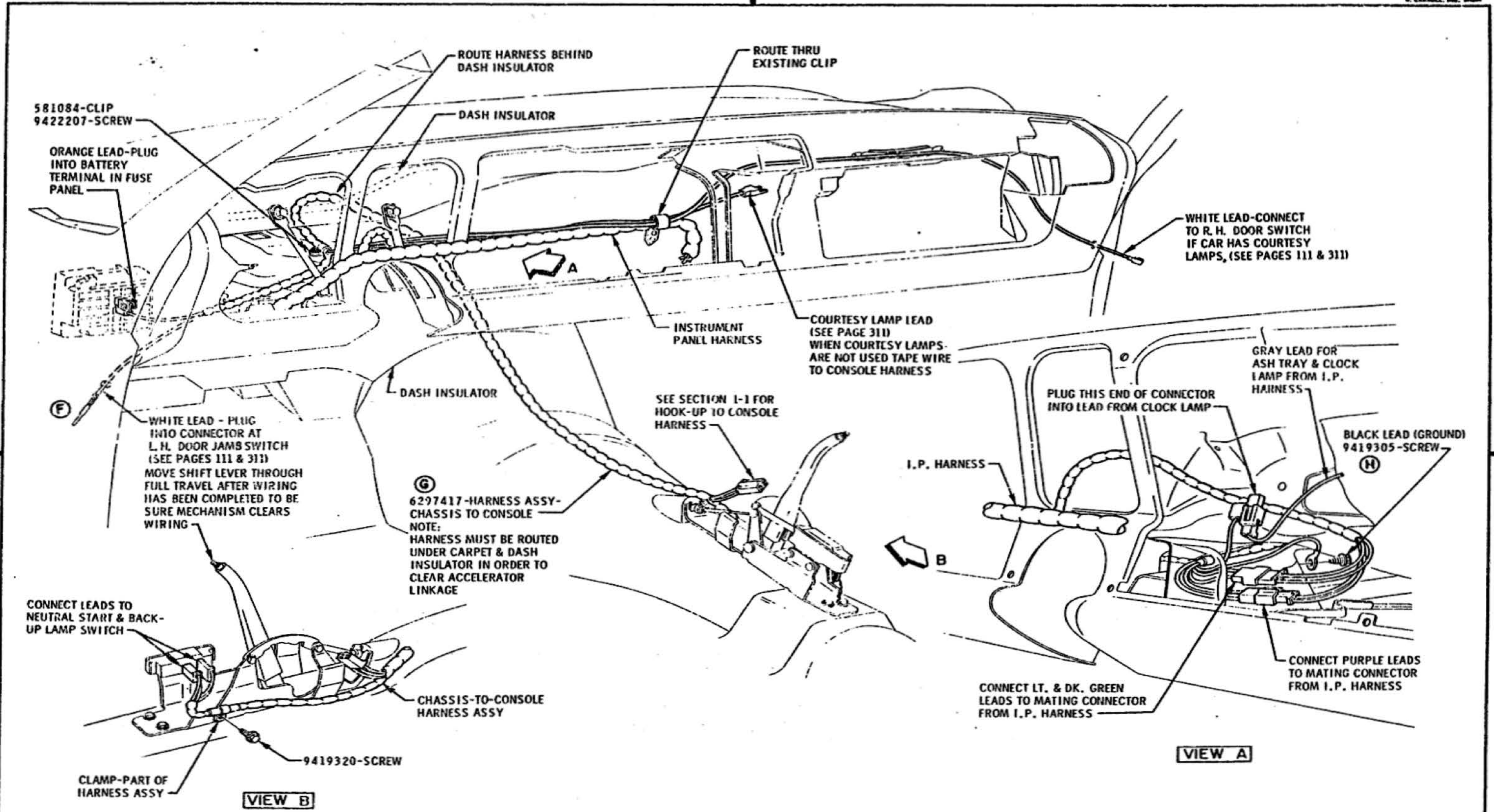
WHEN AN AUTO. TRANS. CONSOLE
IS USED, TAPE BACK WHITE LEAD
(TO DOOR JAMB SWITCH) AT BOTH
ENDS OF COURTESY LAMP HARNESS.

CONSOLE LEAD
(SEE PAGE 315)
WHEN CONSOLE IS NOT
USED, CUT & TAPE WIRE
AT COURTESY LAMP
HARNESS

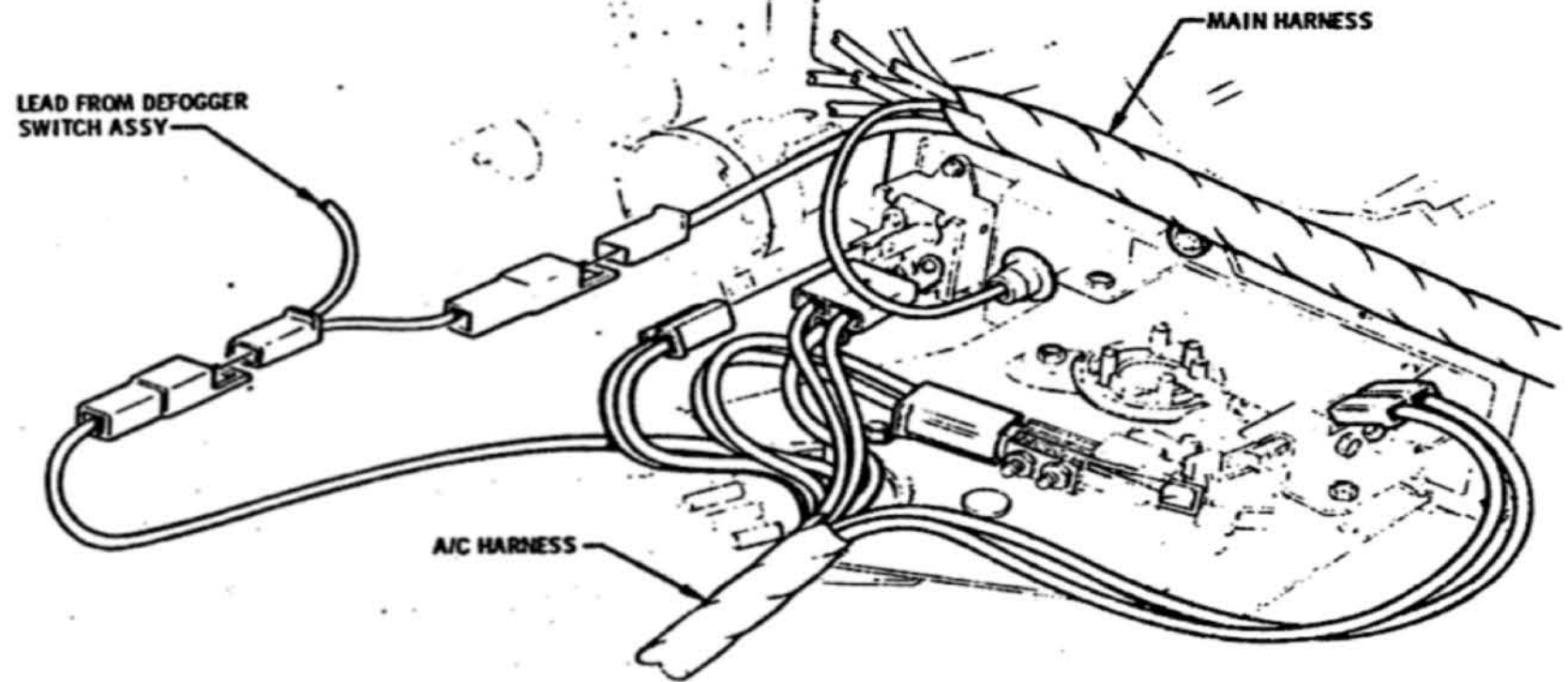
2328616 - STRAP (2)
COURTESY HARNESS
TO I. P. HARNESS

INSTRUMENT PANEL
HARNESS ASSY

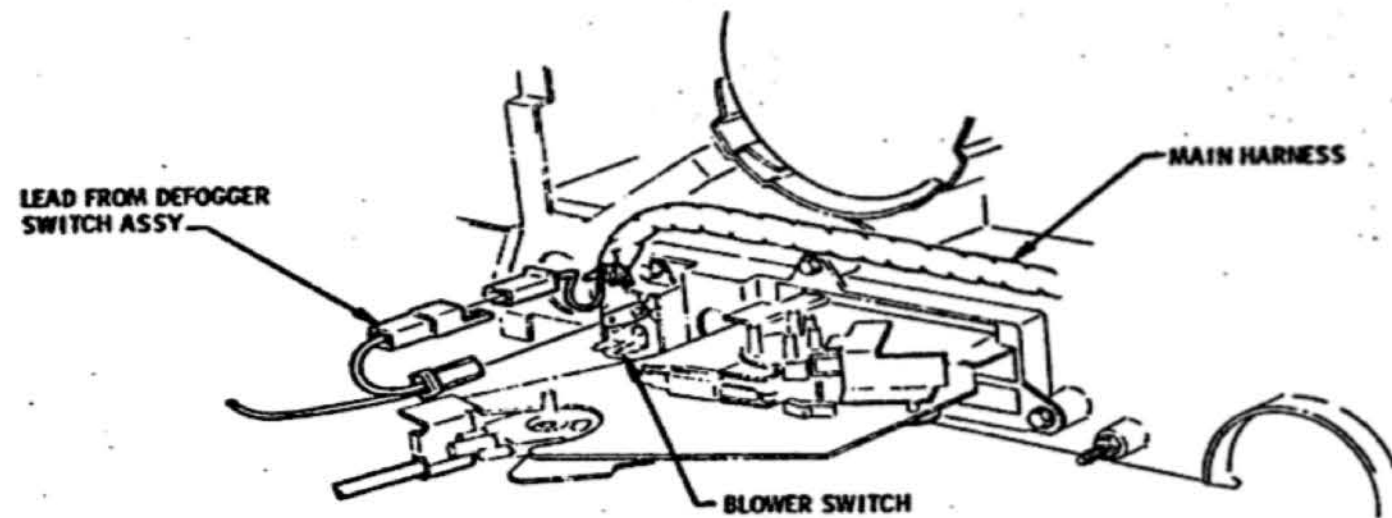
(N)
6297416 - HARNESS ASSY
(COURTESY LAMP) ROUTE
ALONG INSTRUMENT PANEL



DATE	SYM	REVISION	CR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	TITLE	CONSULE WIRE ROUTING	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
																		1-5-68	E	CLIP REMOVED				
																		10-19-68	D	NOTE ADDED				
																		7-31-67	C	NOTES REVISED				
																		7-21-67	B	NOTE REVISED				
																		5-20-57	A	REVISED & REDRAWN				
																		3-20-68	H	WAS 9422207-SCREW				
																		1-5-68	G	WAS 6297417-HARNESS				
																		1-5-68	F	CONNECTOR REVISED				
																					1968	12	315	
																					REF. 35 D 55	SERIES A	PART NO. 398162	

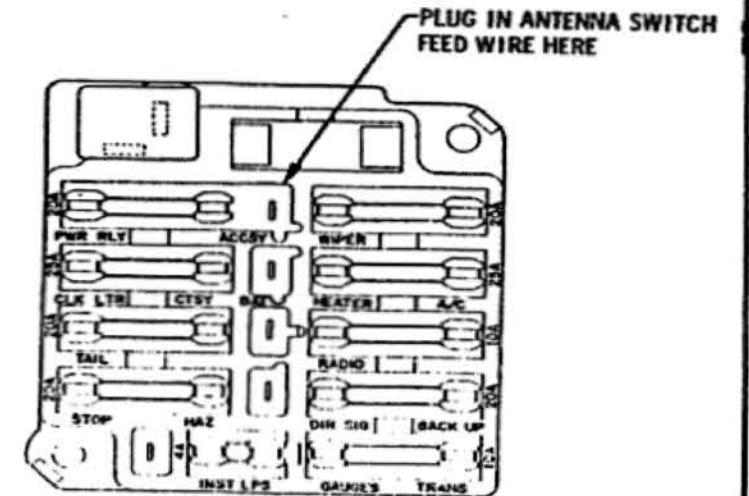
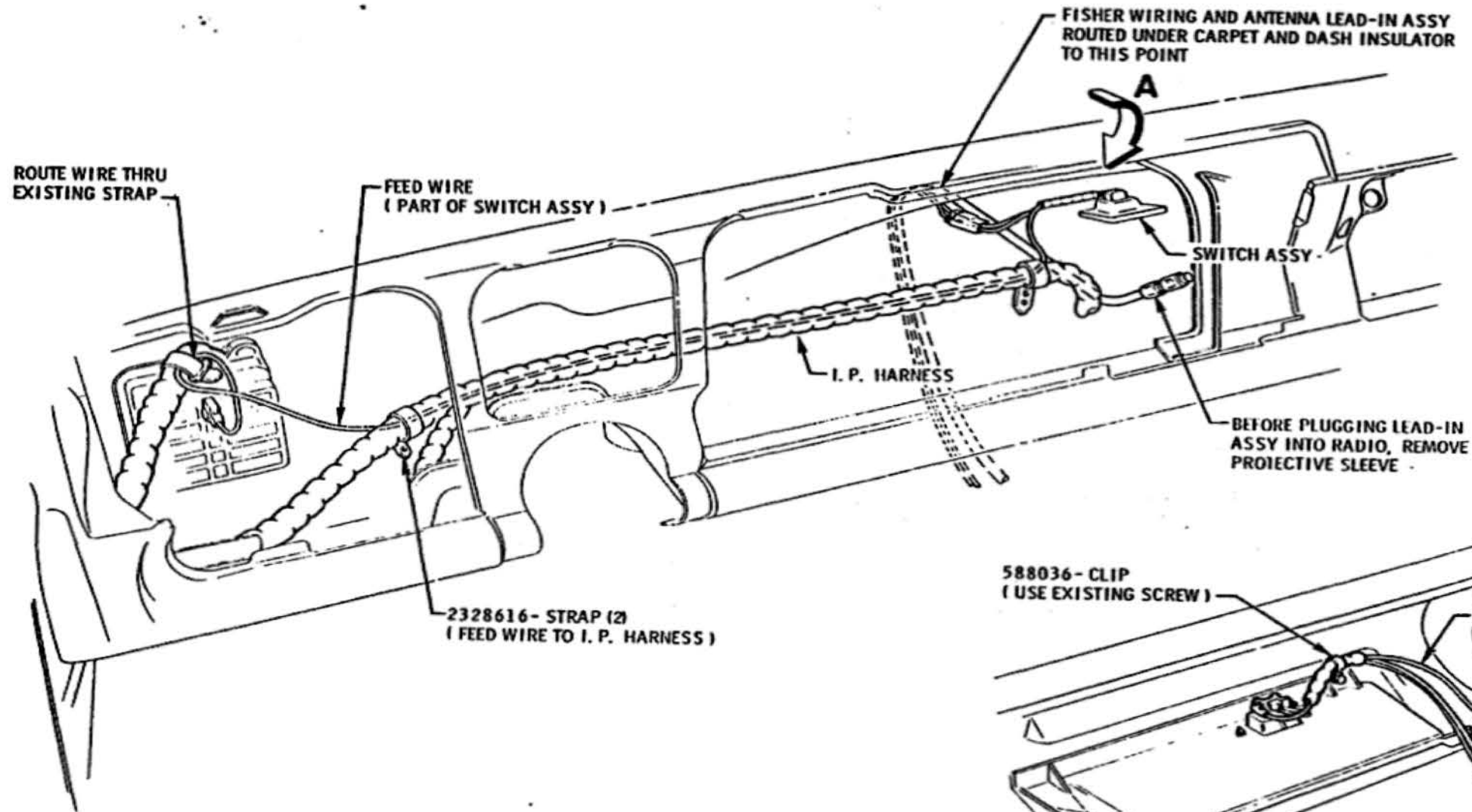


WIRING TO A/C CONTROL
(REAR VIEW)



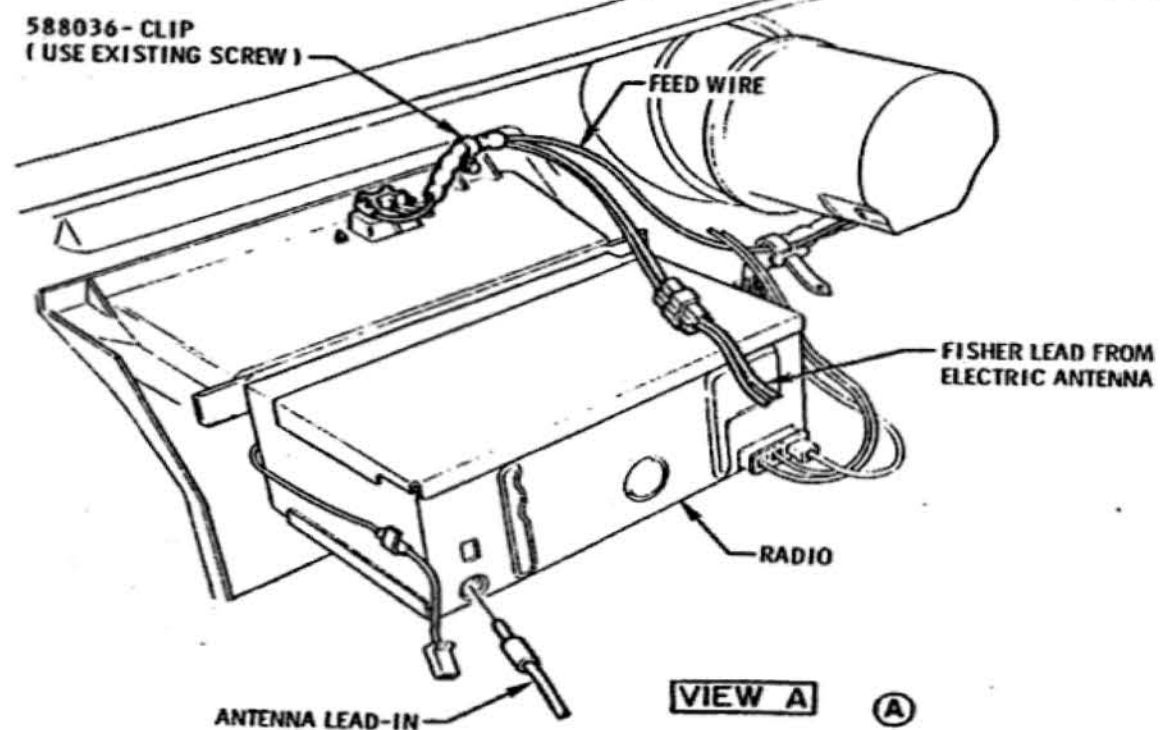
WIRING TO HEATER CONTROL
(REAR VIEW)

TITLE										REAR WINDOW DEFOGGER WIRING TO CONTROLS									
DATE					MAY 1, 1967					FIRST USED		1968		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SECTION		PAGE	
DR. BY					ED J. ROE					REV.		35C 50		SERIES		A		PART NO.	
CHECKED					JRM					APPR.		K.E. Hales, etc				12		317	
APPR.																398162			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.



(B) FIGURE 1
FUSE PANEL CONNECTION

NOTE: FOR ADDITIONAL RADIO WIRING SEE SECT. 12, PAGE 110.



VIEW A **(A)**
SWITCH WIRING ON REAR OF CONTROL PANEL

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	MANUAL SECTION	PAGE
										ELECTRIC ANTENNA WIRING		12	318
					7-21-67	B	FIG. 1 REVISED			DATE: APR. 18, 1967 DR. BY: ED. J. ROE	1968		
					7-21-67	A	VIEW REVISED & REDRAWN			CHECKED: [Signature] APPR.:	REF. 35075		
											SEALS: A	PART NO.:	398162

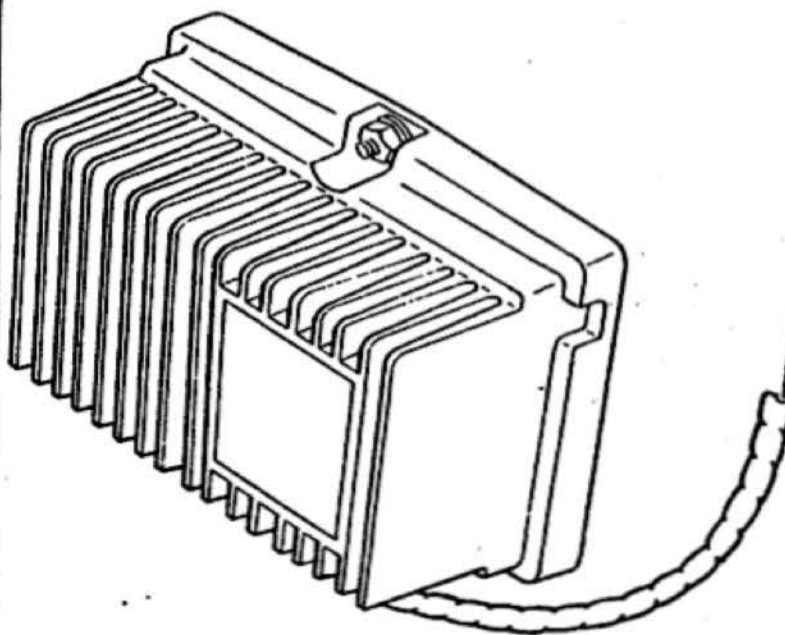
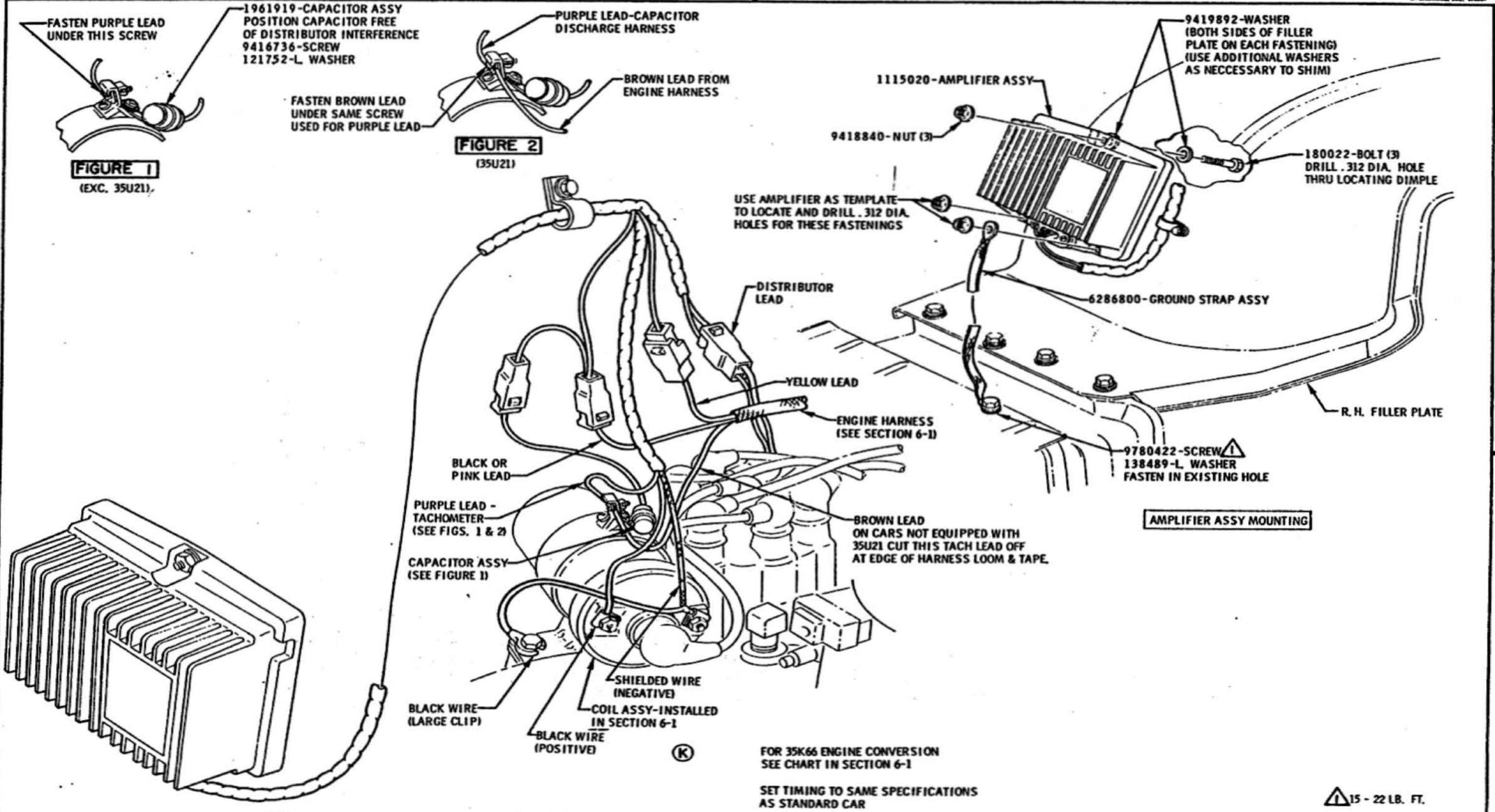


FIGURE 2
(35U21)

AMPLIFIER ASSY MOUNTING

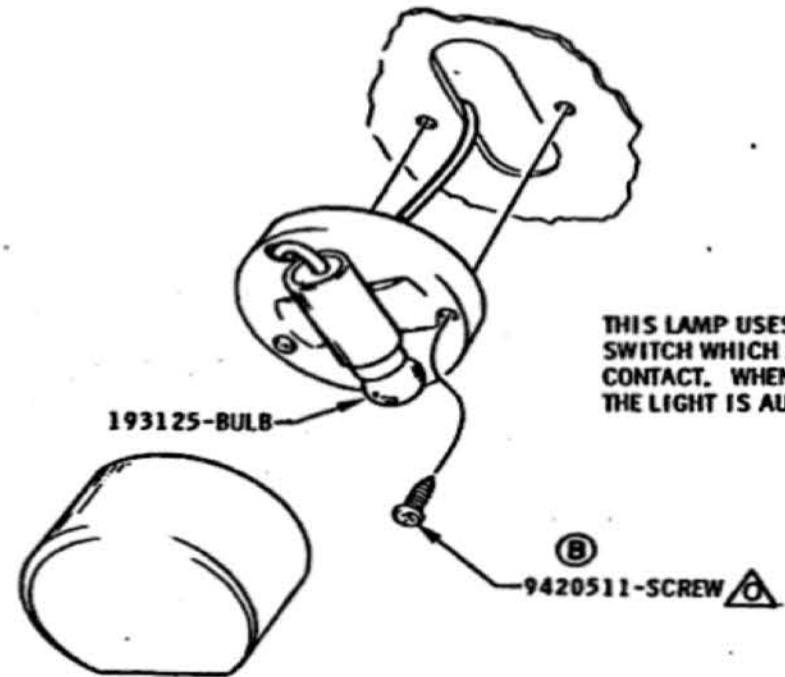
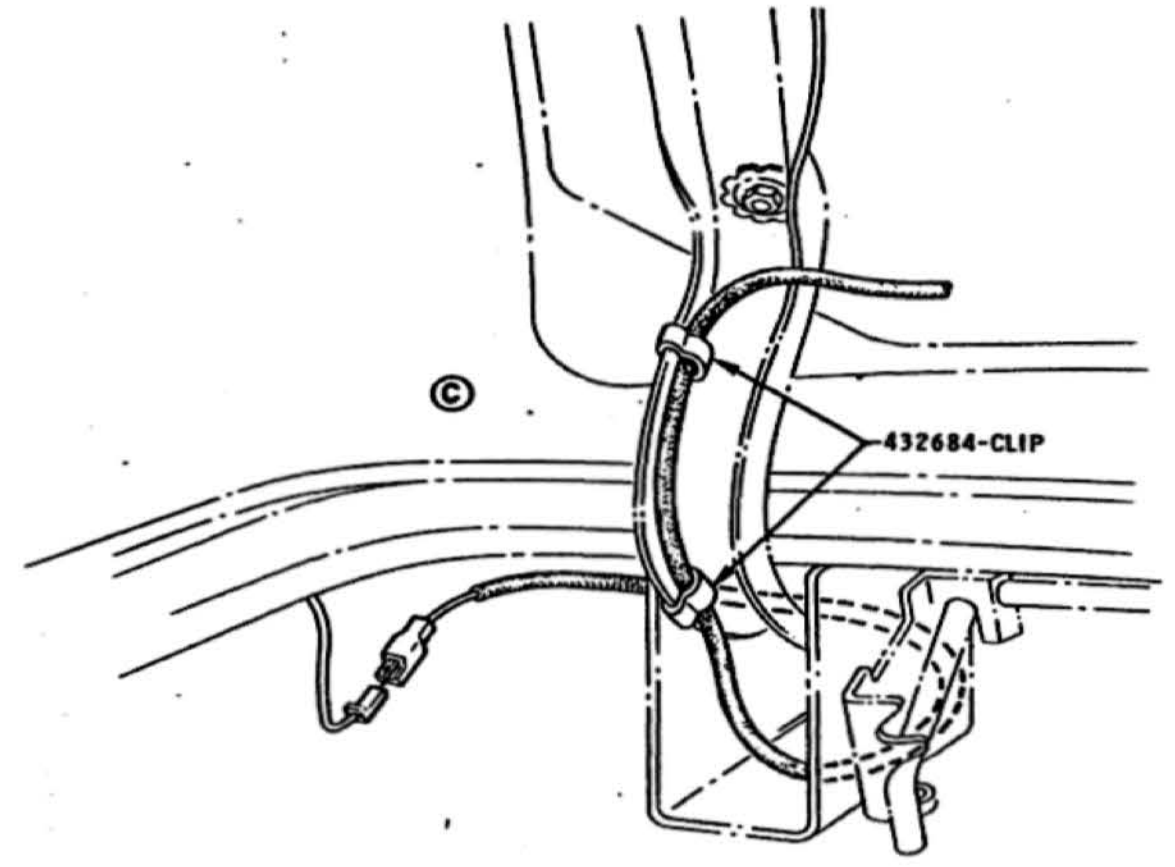
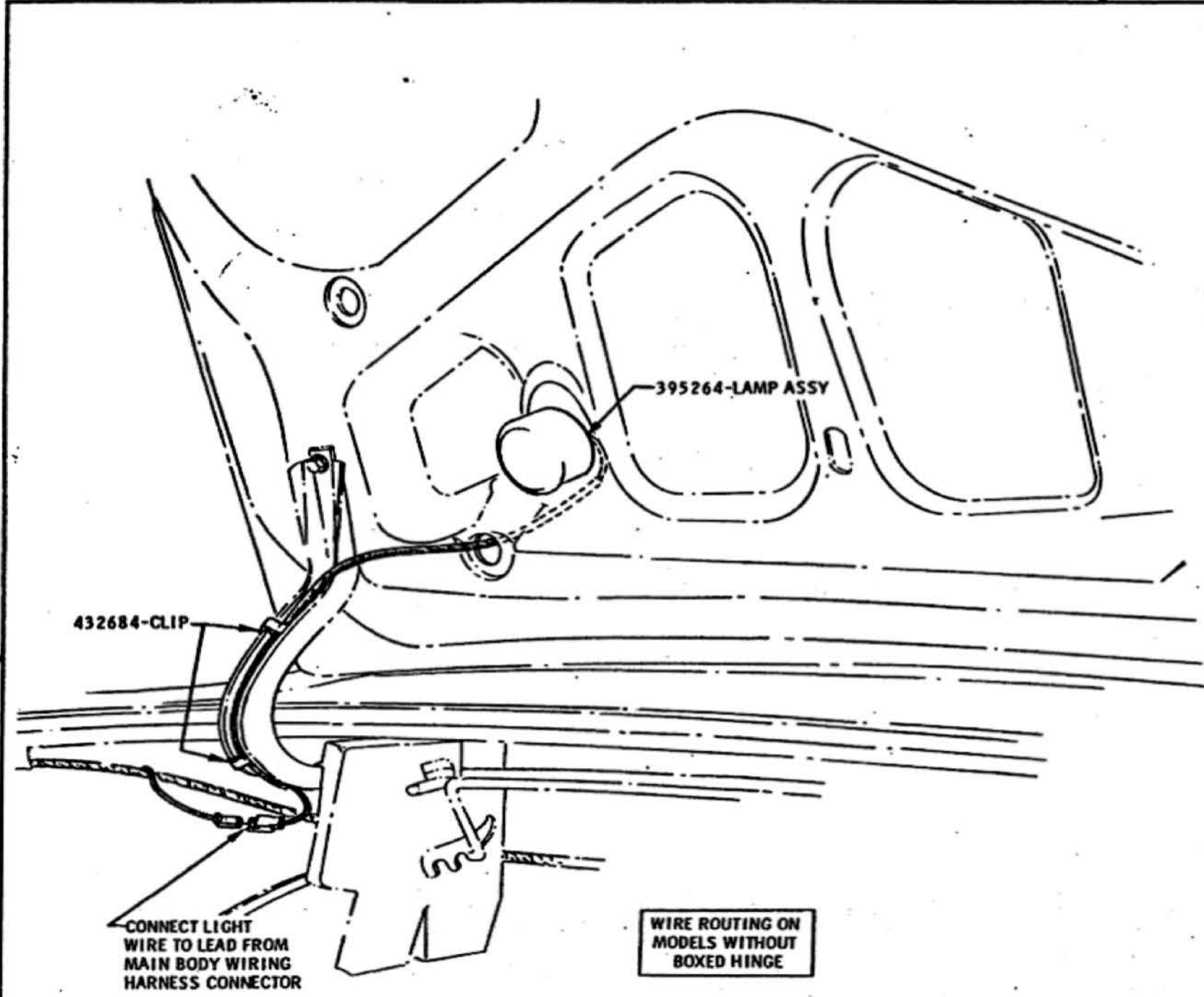
(K)

FOR 35K66 ENGINE CONVERSION
SEE CHART IN SECTION 6-1

SET TIMING TO SAME SPECIFICATIONS
AS STANDARD CAR

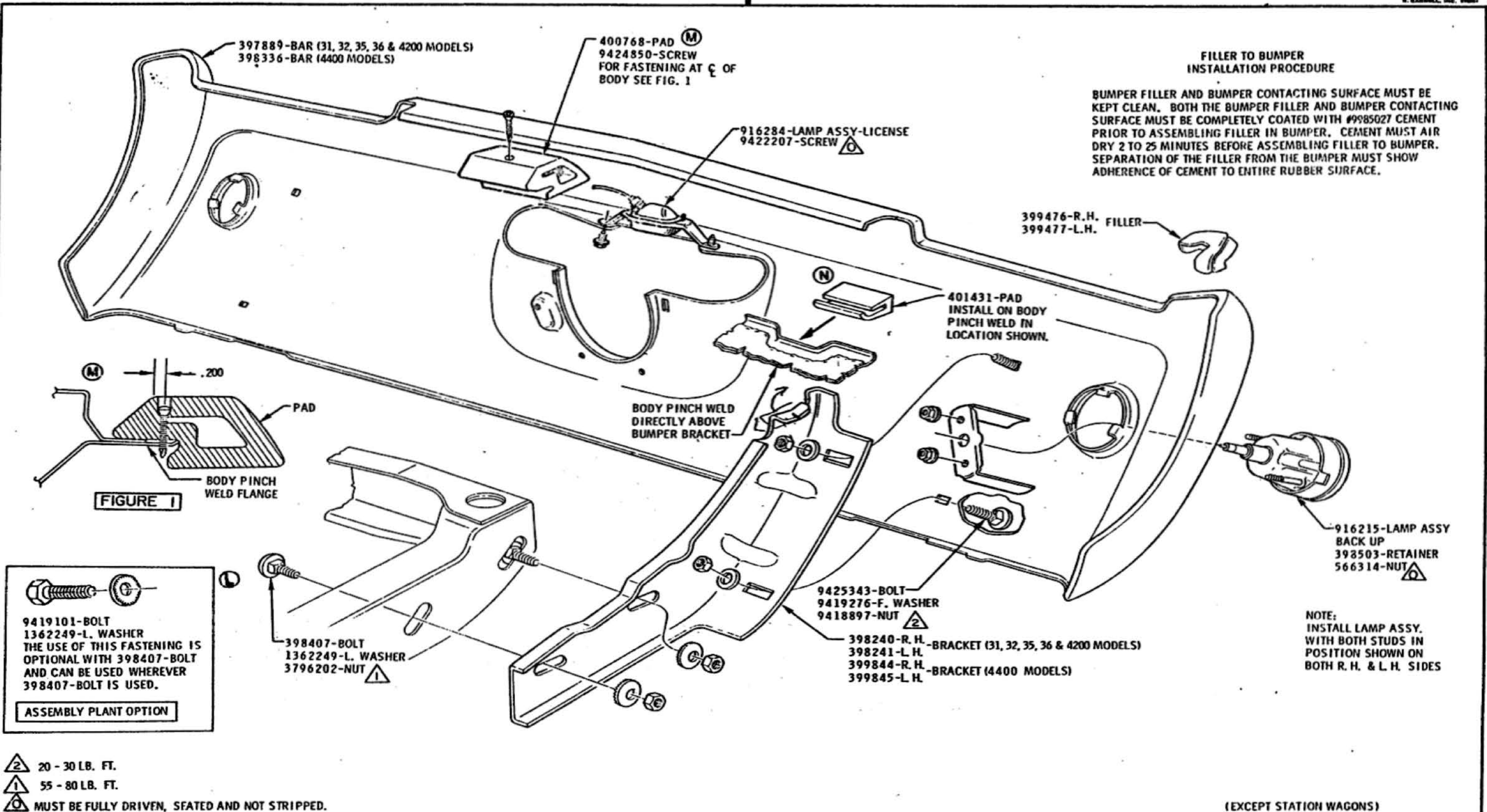
△ 15 - 22 LB. FT.

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 SEC.	PAGE	
					4-10-66	K	VIEW REVISED	DR.	DT	7-19-67	E	FIGURE 2 ADDED	DR.	DT							35K66 PICTORIAL WIRING DIAGRAM				
					2-6-68	J	CAPACITOR REPOSITIONED	DR.	DT	7-19-67	D	PART NOS ADDED	DR.	DT							DATE	1968			
					10-23-67	H	NOTE REVISED	DR.	DT	7-19-67	C2	DRILLING INFO ADDED	DR.	DT							DR. BY	G.W. KESTER	12	330	
					9-25-67	G	NOTE REVISED	DR.	DT	7-19-67	B	NOTE REVISED	DR.	DT							CHECKED				
					7-25-67	F	TORQUE ADDED	DR.	DT	6-16-67	A	REVISED AND REDRAWN	DR.	DT							APPR.				
																						A		398162	



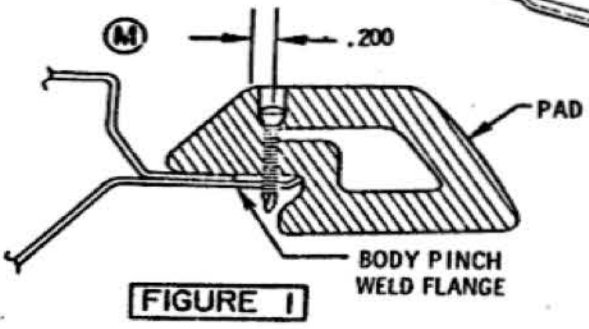
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

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
					10-25-67	D	TORQUE NOTE ADDED									TRUNK LAMP	1968		12	380
					9-5-67	C	VIEW ADDED													
					7-10-67	B	WAS 161801 SCREW													
					9-10-67	A	REVISED & REDRAWN													
																	REF. 35Y60	SERIES A	PART NO. 398162	



**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.

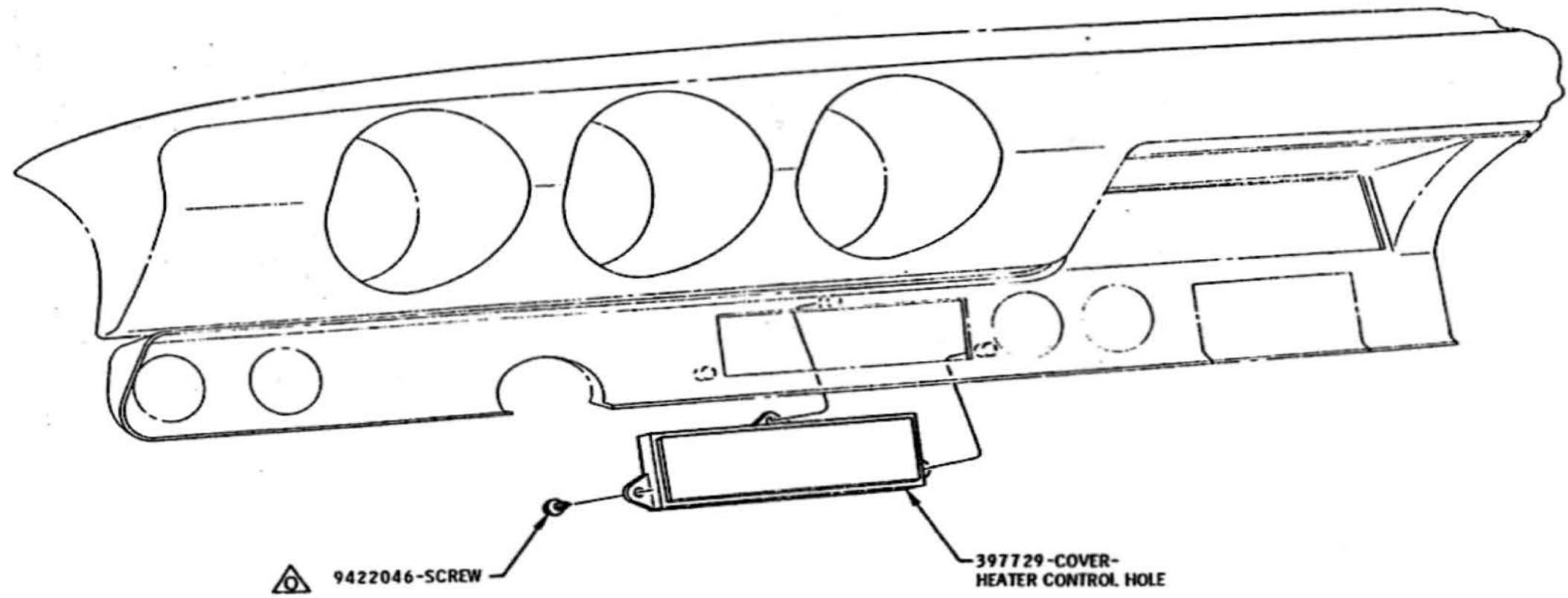
ASSEMBLY PLANT OPTION


- (2) 20 - 30 LB. FT.
- (1) 55 - 80 LB. FT.
- (A) MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

NOTE:
INSTALL LAMP ASSY.
WITH BOTH STUDS IN
POSITION SHOWN ON
BOTH R. H. & L. H. SIDES

(EXCEPT STATION WAGONS)

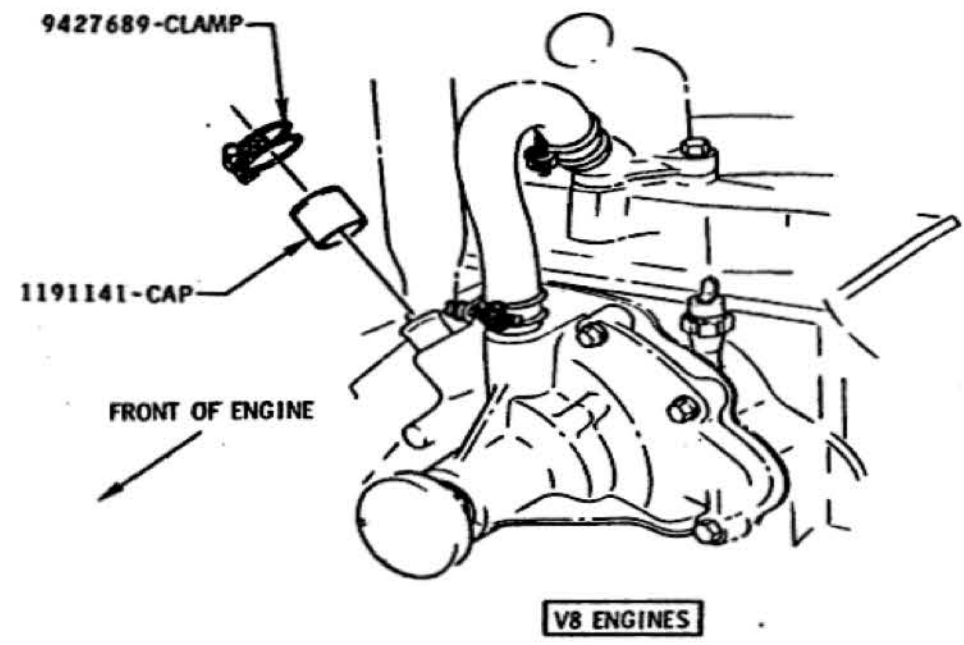
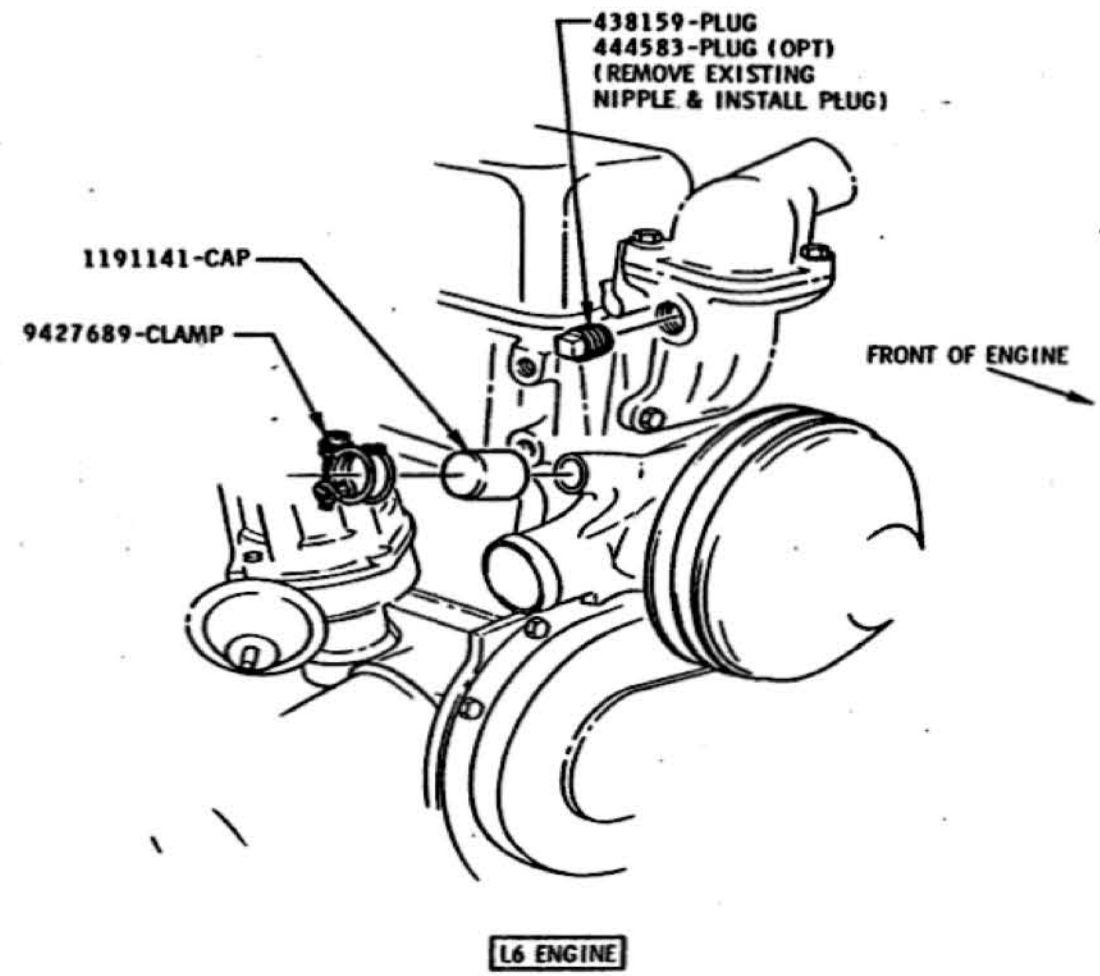
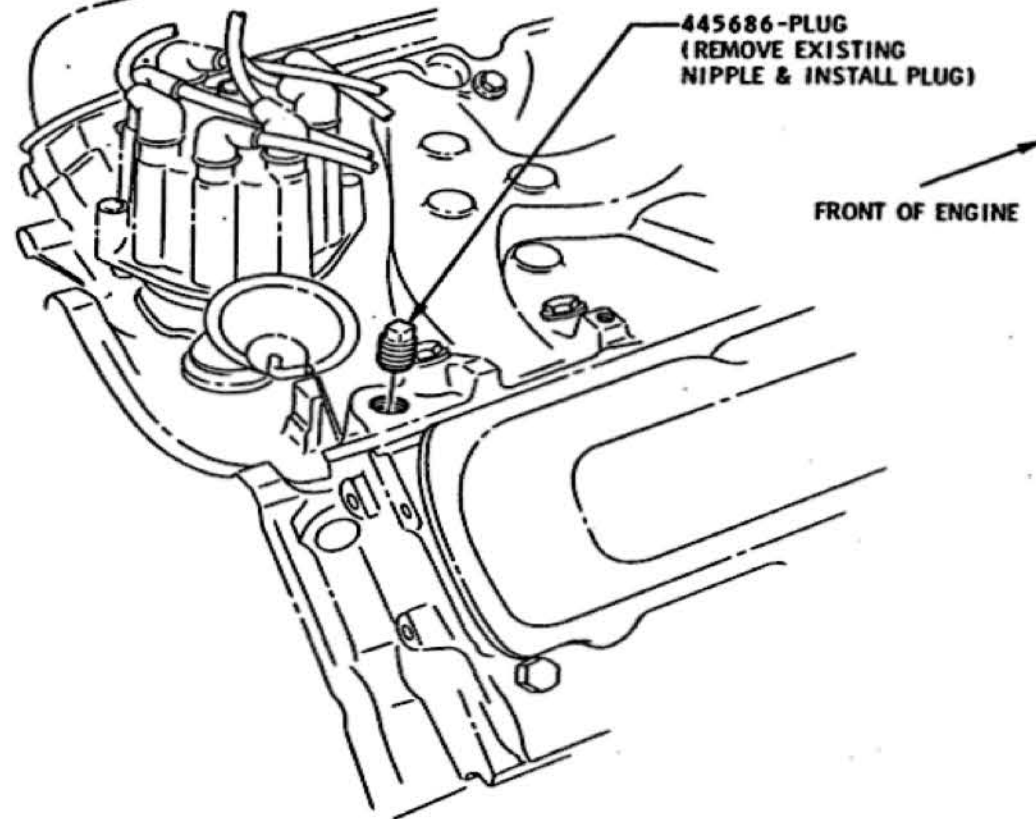
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE	
					7-31-67	K	NOTE ADDED	B	DT	6-7-67	E	PAD REMOVED	B	DT								REAR BUMPER				
					7-31-67	J2	4400 PARTS ADDED	B	DT	4-25-67	D	WAS 400903-FILLER	B	DT								DATE	FEB. 9, 1967			
3-28-68	N	PAD RELOCATED	B	DT	7-18-67	H2	35N II INFO. REMOVED	B	DT	4-5-67	C	LAMP ASSY ADDED	B	DT								DR. BY	BEAUDOIN	1968		
10-12-67	M2	PAD FASTENING REVISED	B	DT	7/7/67	G	TORQUE ADDED	B	DT	4-5-67	B	WAS 400768-PAD	B	DT								CHECKED				
9-18-67	L	VIEW ADDED	B	DT	6-7-67	F	FLANGE & PAD ADDED	B	DT	3-10-67	A	400768-PAD ADDED	B	DT								APPR.				
																						REF.	14-A2	12-E		
																							SERIES	A		
																							PART NO.	398162		



 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

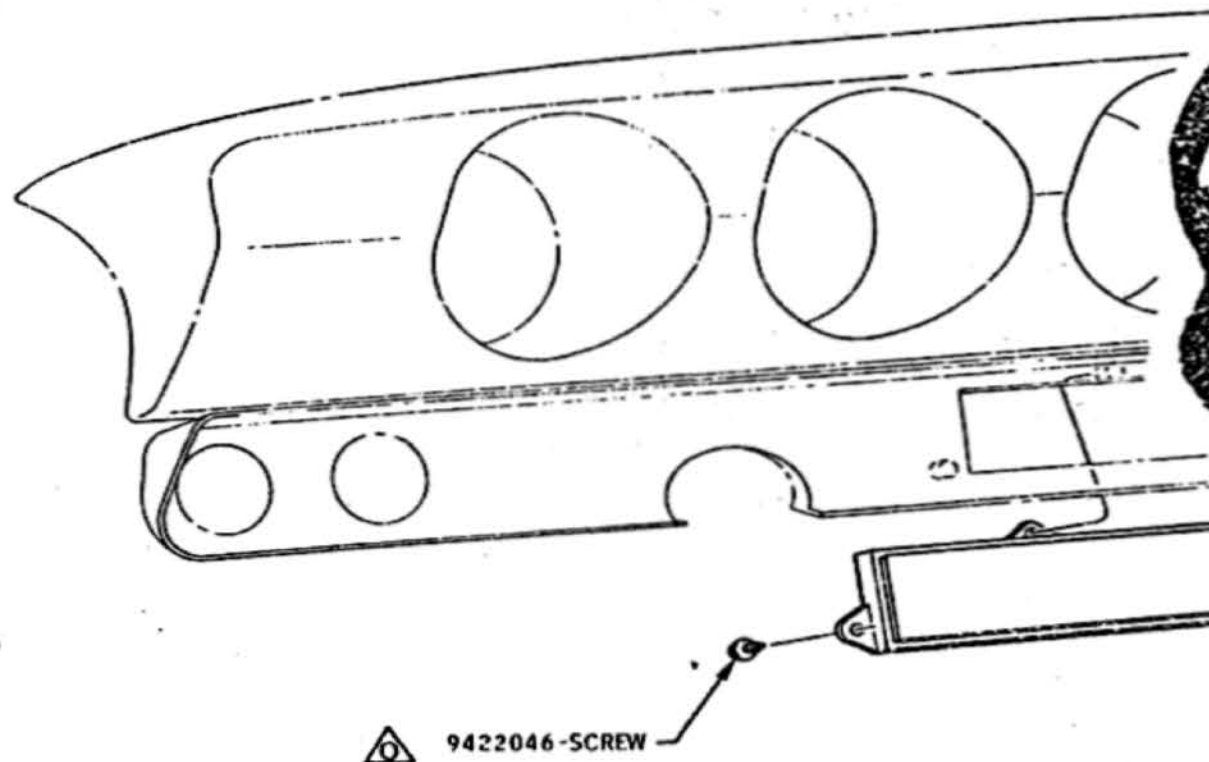
EXPORT ONLY (97C48 - 98C48)

REVISIONS										TITLE				
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	HEATER CONTROL HOLE COVER	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SECTION	PAGE
											1968		97-98	110
				6-20-67	A	TORQUE NOTE ADDED					REF. 97C48 98C48		A	PART NO. 398162



EXPORT ONLY 97C48 & 98C48

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.
TITLE ENGINE CONVERSION (CARS WITHOUT HEATERS)															
DATE <i>MAY 19, 1967</i>															
DR. BY <i>CUET MAY</i>															
CHECKED <i>MY Barnhart</i>															
APPR.															
APPR.															
FIRST USED 1968															
OLDSMOBILE PRODUCT INFORMATION MANUAL															
MANUAL SECTION 97-98															
PAGE 112															
REF. 97C48															
SERIES A															
PART NO. 398162															



9422046-SCREW

397729-COVER-
HEATER CONTROL HOLE

PLEASE
REMOVE THIS
PAGE FROM YOUR
1968 P.I.M. AS
THIS INFORMATION
IS NOW SHOWN ON
PAGE 400 OF
SECTION 1-3.
Thank you,
WJ Barnhart
7/26/67

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

EXPORT ONLY (97C48 - 98C48)

										TITLE		HEATER CONTROL HOLE COVER		MANUAL SECTION		PAGE			
										DATE	MAY 9 1967	FIRST USED	1968	OLDSMOBILE PRODUCT		97-98		110	
										DR BY	PJ MCKESSY	INFORMATION MANUAL							
										CHECKED	JLW	REF.	97C48	SERIES		A		PART NO.	
										APPR.	PB	98C48					398162		
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK
							6-20-67	A				TORQUE NOTE ADDED							

