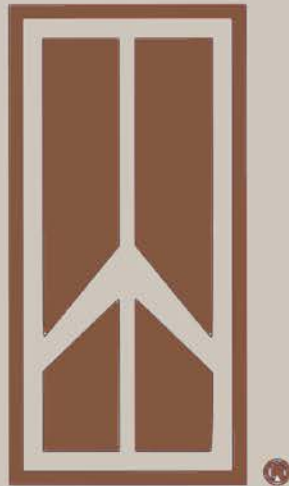


1969

F-85 / Cutlass / 4-4-2



Oldsmobile

ASSEMBLY
MANUAL

PRODUCT INFORMATION MANUAL

INTRODUCTION 1969 PRODUCT INFORMATION MANUAL

401900 F-85 SERIES
401901 FUEL SIZE CAR SERIES
401902 TORONADO SERIES

THIS MANUAL CONTAINS REDUCED COPIES OF PICTORIAL INSTALLATION DRAWINGS, CHARTS, PROCEDURES, AND OTHER DRAWINGS USED FOR THE ASSEMBLY OF 1969 OLDSMOBILES.

IN ORDER TO PROVIDE A LOGICAL PRODUCT MANUAL FOR THE FINAL ASSEMBLY PLANTS, THE 1969 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 (UNLESS OTHERWISE NOTED). 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.

EVERY EFFORT WILL BE MADE TO HAVE THE DRAWINGS IN THE MANUAL REFLECT THE LATEST DESIGN AND INSTALLATION CHANGES. HOWEVER, FOR COMPLETE DETAILED INFORMATION RELATIVE TO THE APPEARANCE OF THE PARTS OR ASSEMBLIES, THE ACTUAL DRAWINGS OF THE PARTS OR ASSEMBLIES SHOULD BE USED.


IF ANY ERRORS OR OMISSIONS ARE FOUND IN THE BOOK, PLEASE NOTIFY:

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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 FRONT 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.
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- GROUP 4 REAR SUSPENSION.
 SEE AXLE AND FINAL DRIVE ASSEMBLY MANUAL 405236.
- GROUP 5 BRAKE SYSTEM.
- GROUP 6 SEE ENGINE ASSEMBLY MANUAL 404280.
- GROUP 6-1 V-8 ENGINE DRESS - FINAL ASSY.
- GROUP 6-2 L-6 ENGINE DRESS - FINAL ASSY.
- GROUP 7 TRANSMISSION AND RELATED PARTS.
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OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

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OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

A

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FOR CANADIAN BUILT F-85
MODEL SPECIAL PARTS USAGE
SEE 1969 F-85 PARTS LIST
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FOR ENGINEERING U. P. C.
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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

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OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE		APPLICATION	AUDIT TORQUE ON COMPLETED CARS
			INSTALLATION TORQUE	TORQUE		
GROUP #1						
396785-B	7/16 - 14 X 2.87	GM 280-M	30 - 65 LB. FT.		BODY MOUNTING #2	25 - 55 LB. FT.
3902232-B (OPT)	7/16 - 14 X 2.86	GM 280-M				
3902231-B	7/16 - 14 X 2.37	GM 280-M	30 - 65 LB. FT.		BODY MOUNTING #3	25 - 55 LB. FT.
1366144-B	7/16 - 14 X 2.62	GM 280-M	30 - 65 LB. FT.		BODY MOUNTING #4 & 6 (E)	25 - 55 LB. FT.
(E) 396785-B	7/16 - 14 X 2.87	GM 280-M	30 - 65 LB. FT.		BODY MOUNTING #7	25 - 55 LB. FT.
GROUP #2						
9418931-M	3/8 - 16	GM 286-M	30 - 60 LB. FT.		TRANSMISSION SUPPORT TO FRAME	
GROUP #3						
9418931-M	3/8 - 16	GM 286-M	120 - 180 LB. IN.		BUMPER TO LOWER ARM	
(F3) 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-M	1/2 - 13 (LOCK)	GM 301-M	70 - 90 LB. FT.			
(F3) 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-M	1/2 - 13 (LOCK)	GM 301-M	70 - 90 LB. FT.			
(F4) 9422286-M	5/8 - 18 (LOCK)	GM 286-M	45 - 60 LB. FT.		RUSHING TO UPPER ARM SHAFT	35 - 70 LB. FT.
9422289-M	7/16 - 24 (LOCK)	GM 301-M	45 - 55 LB. FT.		UPPER ARM SHAFT TO FRAME BRACKET	35 - 65 LB. FT.
(F2) 102647-M	1/2 - 20	GM 286-M	48 - 60 LB. FT.		KNUCKLE TO UPPER CONTROL ARM	30 - 90 LB. FT.
(F2) 9427880-M	9/16 - 18	GM 301-M	40 - 60 LB. FT.		KNUCKLE TO LOWER CONTROL ARM	30 - 90 LB. FT.
(F3) 378137-M	3/4 - 20	GM 286-M			HUB TO KNUCKLE	
1365067-M	3/8 - 24	SAE 1113	60 - 120 LB. IN.		SHOCK ABSORBER UPPER MOUNTING	
9420555-SC	5/16 - 18 X 7/8	GM 275-M	15 - 25 LB. FT.		SHOCK ABSORBER LOWER MOUNTING	
9422107-SC	5/16 - 18 X 1 1/8	GM 600	120 - 180 LB. IN.		STABILIZER BRACKET TO FRAME	
1365065-M	5/16 - 18 (SPECIAL)	GM 286-M	60 - 180 LB. IN.		STABILIZER LINK	
GROUP #4						
(F3) 9427318-B	1/2 - 13 X 3 3/8	GM 300-M	90 - 120 LB. FT.		UPPER ARMS TO FRAME CROSS MEMBER (LANSING PLANT ONLY)	60 - 110 LB. FT.
9422301-M	1/2 - 13 (LOCK)	GM 301-M	70 - 90 LB. FT.			
(F3) 9427318-B	1/2 - 13 X 3 3/8	GM 300-M	90 - 120 LB. FT.		UPPER ARMS TO DIFFERENTIAL CARRIER (LANSING PLANT ONLY)	60 - 110 LB. FT.
9422301-M	1/2 - 13 (LOCK)	GM 301-M	70 - 90 LB. FT.			
(F3) 402568-B	1/2 - 13 X 3 7/8	GM 300-M	90 - 120 LB. FT.		LOWER ARM ASSEMBLY TO FRONT BRACKET	60 - 110 LB. FT.
9422301-M	1/2 - 13 (LOCK)	GM 301-M	70 - 90 LB. FT.			

(F2) WHILE ROTATING HUB AND DRUM ASSEMBLY:
1. TIGHTEN NUT TO 25 TO 30 LB. FT. TORQUE.
2. BACK OFF NUT 1/2 TURN.
3. RETIGHTEN NUT FINGER TIGHT, SECURE IF POSSIBLE.
4. IF UNABLE TO SECURE AT FINGER TIGHT, BACK OFF TO FIRST SECURING POSITION.

5. FRONT DRUM MUST BE ROTATED AT LEAST THREE REVOLUTIONS OF SPINDLE NUT DURING TIGHTENING AND RETIGHTENING OPERATIONS. CHECK DIM. -.001 - .005 END PLAY BETWEEN HUB AND SPINDLE.

(F2) AFTER REACHING MINIMUM 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.

(F3) ANY RE-TORQUE SUBSEQUENT TO THE INITIAL APPLICATION MUST BE APPLIED TO THE SAME END AS TORQUED INITIALLY.
(F4) APPLY TORQUE WHILE CAR IS AT CURB HEIGHT (LANSING ONLY).

CHART - WRENCH TORQUE (CHASSIS)

DATE	SYN	REVISION	DR.	CL.	DATE	SYN	REVISION	DR.	CL.	DATE	SYN	REVISION	DR.	CL.	APPR.
					1166B	F	536785 ADDED								
					2126B	D	WAS 9421430-B								
					1296B	C	APPLICATION REV.								
					1296B	B	WAS 9421430								
					1296B	A	9421430 REM'D.								

FIRST USED	MANUAL REC.	PAGE
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REV.	SERIES	PART NO.
	A	402884

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
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GROUP M (CONTINUED)					
9422301-N	1/2 - 13 X 3/4	GM 300-M	70 - 120 LB. FT.	LOWER ARM ASSEMBLY TO REAR BRACKET	60 - 100 LB. FT.
9418897-M	7/16 - 14	GM 286-M	35 - 55 LB. FT.	BUMPER SPACER TO AXLE HOUSING BRACKET EXC. EXT. S.W.1	
9423701-SC	5/16 - 18 X 1 1/16	GM 275-M	15 - 25 LB. FT.	REAR SHOCK ABSORBER UPPER MOUNTING EXC. EXT. S.W.1	
1365067-M	3/8 - 24	SAE 1113	60 - 120 LB. IN.	REAR SHOCK ABSORBER UPPER MOUNTING EXT. S.W. ONLY	
9421085-M	1/2 - 20	GM 286-M	55 - 75 LB. FT.	REAR SHOCK ABSORBER LOWER MOUNTING	
9422280-N	7/16 - 20 (LOCK)	GM 286-M	65 - 95 LB. FT.	STABILIZER TO LOWER ARM	

GROUP P5					
9422302-N	1/2 - 20 (LOCK)	GM 301-M	70 - 90 LB. FT.	BRAKE AND STEERING ARM TO KNUCKLE	
9423879-0	1/2 - 20 X 2 3/8	GM 300-M	80 - 120 LB. FT.	ANCHOR BOLT-BACKING PLATE TO KNUCKLE	75 - 130 LB. FT.
2474997-M	3/8 - 24	GM 286-M	30 - 60 LB. FT.	BRAKE TO AXLE HOUSING	20 - 30 LB. FT.
9422299-N	7/16 - 14 (LOCK)	GM 301-M	20 - 30 LB. FT.	ARM ASSEMBLY TO PEDAL SUPPORT BRACKET	
1361640-M	3/8 - 16	GM 286-M	20 - 28 LB. FT.	PEDAL BRACKET TO DASH PANEL	15 - 30 LB. FT.
9419380-SC	1/4 - 14 X 3/4	GM 601D-M	72 - 108 LB. IN.	LEVER ASSEMBLY TO INSTRUMENT PANEL	
1359887-M	5/16 - 18	GM 286-M	84 - 120 LB. IN.	LEVER ASSEMBLY TO DASH	
9417954-M	5/16 - 18	GM 286-M	36 - 72 LB. IN.	CABLE TO EQUALIZER	
1361640-M	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 601D-M	108 - 156 LB. IN.	FRONT BRAKE HOSE TO ADAPTER	
9422232-SC	5/16 - 12 X 5/8	GM 601D-M	108 - 156 LB. IN.	HOSE BRACKET TO FRAME - FRONT	
9420825-SC	5/16 - 18 X 9/16	GM 601D-M	120 - 180 LB. IN.	R.H. FRONT WHEEL PIPE TO CROSS BAR	
9420825-SC	5/16 - 18 X 9/16	GM 601D-M	120 - 180 LB. IN.	R.H. FRONT WHEEL PIPE TO FRAME	
9420825-SC	5/16 - 18 X 9/16	GM 601D-M	120 - 180 LB. IN.	BRAKE PIPE DIST. TO FRAME - FRONT	
9418918-0	5/16 - 18 X 1	GM 280-M	120 - 180 LB. IN.	REAR HOSE TO AXLE HOUSING	
9420825-SC	5/16 - 18 X 9/16	GM 601D-M	120 - 180 LB. IN.	BRAKE PIPE TO FRAME EXT. S.W. ONLY	
9419400-SC	1/4 - 14 X 1/2	GM 601D-M	25 - 35 LB. IN.	BRAKE PIPE TO FRAME EXT. S.W.1	
9420821-M	3/8 - 24	GM 286-M	11 - 16 LB. FT.	PUSH ROD CLEVIS	
186619-0	3/8 - 16 X 1 1/8	GM 300-M	60 - 80 LB. FT.	ROTOR TO HUB	
5463495-0	7/16 - 20 X 3.72	GM 300-M	30 - 40 LB. FT.	CALLIPER ASSEMBLY TO ADAPTER BRACKET	
3848408-SC	5/16 - 18 X 1/2	GM 275-M	14 - 22 LB. FT.	BRACKET TO METER VALVE	
1381744-0	5/8 - 18 X 7/8	GM 300-M	110 - 114 LB. FT.	ADAPTER BRACKET TO KNUCKLE - UPPER	
1385356-0	7/16 - 20 X 1.004	C 1118	30 - 40 LB. FT.	HOSE TO CALLIPER	

GROUP M6					
454932-0	7/16 - 14 X 1.00	GM 300-M	70 - 85 LB. FT.	MOUNT ASSEMBLY TO ENGINE (V-8)	
3841492-SC	3/8 - 16 X 3/4	GM 275-M	25 - 40 LB. FT.	BRACKET ASSEMBLY TO ENGINE Q-61	
9418897-M	7/16 - 14	GM 286-M	40 - 55 LB. FT.	ENGINE MOUNT ASSEMBLY TO ENGINE BRKT. ASSY. Q-61 AND ENGINE MOUNT ASSY TO FRAME BRACKET (V-8)	
9419073-0	7/16 - 14 X 1.00	GM 280-M	55 - 65 LB. FT.	ENGINE MOUNT ASSEMBLY TO FRAME BRACKET Q-61	
9418931-M	3/8 - 16	GM 286-M	25 - 40 LB. FT.	FRAME TO ENGINE MOUNTING BRACKET (L & R)	
9419073-0	7/16 - 14 X 1.00	GM 280-M	65 - 80 LB. FT.	TRANSMISSION MOUNT ASSEMBLY TO SUPPORT	
9419073-0	7/16 - 14 X 1.00	GM 280-M	65 - 80 LB. FT.	MOUNT ASSEMBLY TO TRANSMISSION	

(P2) AFTER REACHING MINIMUM 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.

(P3) ANY RE-TORQUE SUBSEQUENT TO THE INITIAL APPLICATION MUST BE APPLIED TO THE SAME END AS TORQUED INITIALLY.

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

CHART - WRENCH TORQUE (CHASSIS)			
FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
1969		0	103
SERIES	PART NO.		
A	402884		

TITLE	DATE	DR. BY	CHKD BY
DISC BRAKE PARTS ADDED	DEC. 5, 1967	C. GORDON	
APPLICATION REVISED			
WAS 94202232			

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

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

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY		APPLICATION	AUDIT TORQUE ON COMPLETED CARS
			LINE	TORQUE		
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. 1	
9422232-SC	5/16 - 12 X 5/8	GM 6010-M	120 - 180 LB. IN.		FUEL PIPE CLIP TO FRAME (2 SEAT S. W. 1)	
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 AND LOWER ARM BRACKET EXT. S. W. 1	
9422277-M	3/8 - 16 LOCK	GM 286-M	20 - 28 LB. FT.;		EXHAUST PIPE TO MANIFOLD (1-4 ONLY)	
9418914-B	3/8 - 16 X 1 1/4	GM 280-M	20 - 28 LB. FT.		FRONT EXHAUST PIPE TO MANIFOLDS (V-8)	
9418914-B	3/8 - 16 X 1 1/4	GM 280-M	20 - 28 LB. FT.		CROSS OVER PIPE TO MANIFOLDS (V-8) (EXC. 4400)	
1359887-M	5/16 - 18	GM 286-M	132 - 180 LB. IN.		EXHAUST PIPE TO MUFFLER	
1359887-M	5/16 - 18	GM 286-M	132 - 180 LB. IN.		MUFFLER TO RESONATOR PIPE TO MUFFLER EXT. S. W. 1	
1359887-M	5/16 - 18	GM 286-M	132 - 180 LB. IN.		MUFFLER TO RESONATOR PIPE TO RESONATOR (4200 AND 4800)	
1363900-SC	8/20 - 9 X 1 1/4	GM 275-M	208 - 244 LB. IN.		MUFFLER TO RESONATOR PIPE TO HANGER (4800)	
9419402-SC	5/16 - 18 X 3/4	GM 6010-M	72 - 96 LB. IN.		HANGER ASSEMBLY TO FRAME (EXC. EXT. S. W. 1)	
1363900-SC	8/20 - 9 X 1 1/4	GM 275-M	208 - 244 LB. IN.		RESONATOR TO HANGER (4200)	
9419402-SC	5/16 - 18 X 3/4	GM 6010-M	72 - 96 LB. IN.		HANGER ASSEMBLY TO FRAME (4200)	
1363900-SC	8/20 - 9 X 1 1/4	GM 275-M	208 - 244 LB. IN.		TAIL PIPE TO HANGER ASSEMBLY	
1359887-M	5/16 - 18	GM 286-M	132 - 180 LB. IN.		HANGER ASSEMBLY TO FRAME	
1359887-M	5/16 - 18	GM 286-M	132 - 180 LB. IN.		PIPE AND MUFFLER TO HANGER EXC. EXT. S. W. 1	
1359887-M	5/16 - 18	GM 286-M	132 - 180 LB. IN.		MUFFLER TO RESONATOR PIPE TO RESONATOR (4200 AND 4800)	
9418901-SC	5/16 - 12 X 3/4	GM 6010-M	72 - 96 LB. IN.		SUPPORT ASSEMBLY TO BUMPER BRACKET (4400 ONLY)	

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY		APPLICATION	AUDIT TORQUE ON COMPLETED CARS
			LINE	TORQUE		
451399-M	5/16 - 24	GM 286-M	15 - 25 LB. FT.		STEERING COLUMN TO STEERING GEAR	20 - 30 LB. FT.
9420821-M	3/8 - 24	GM 286-M	15 - 25 LB. FT.		STEERING COLUMN TO STEERING GEAR	20 - 30 LB. FT.
399803-B	7/16 - 14 X 4 7/16	GM 300-M	60 - 80 LB. FT.		STEERING GEAR TO FRAME	
102646-M	7/16 - 20	GM 286-M	30 - 40 LB. FT.		THE ROD END TO INTERMEDIATE ROD	25 - 30 LB. FT.
5679329-M	5/16 - 18 LOCK	GM 286-M	15 - 25 LB. FT.		THE ROD ADJUSTER	20 - 30 LB. FT.
102646-M	7/16 - 20	GM 286-M	30 - 40 LB. FT.		PITMAN & IDLER ARMS TO INTERMEDIATE ROD	25 - 30 LB. FT.
9422297-M	3/8 - 16 LOCK	GM 301-M	35 - 45 LB. FT.		IDLER ARM TO FRAME	30 - 35 LB. FT.
102646-M	7/16 - 20	GM 286-M	30 - 40 LB. FT.		THE ROD END TO STEERING ARM	25 - 30 LB. FT.
567628-M	7/8 - 14	SAE 101B-106	120 - 180 LB. FT.		PITMAN ARM TO STEERING GEAR	100 - 200 LB. FT.

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

TITLE										CHART - WRENCH TORQUE (CHASSIS)									
DATE <i>DEC. 5, 1967</i>										FIRST USED									
DR. BY <i>C. GORDON</i>										1969									
CHECKED <i>JAMES</i>										OLDSMOBILE PRODUCT INFORMATION MANUAL									
APPR. <i>J.R. [Signature]</i>										MANUAL SEC. PAGE									
										0 104									
										SERIES									
										A									
										PART NO.									
										402884									

DATE	BY	REVISION	DATE	BY	REVISION	DATE	BY	REVISION	DATE	BY	REVISION

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
GROUP #10					
358501-N	7/16 - 20	GM 286-M	60 - 80 LB. FT.	WHEEL	50 - 90 LB. FT.
GROUP #12					
9419400-SC	1/4 - 14 X 1/2	GM 6010-M	72 - 96 LB. IN.	SWITCH BRACKET TO PEDAL BRACKET	
9416791-N	5/16 - 18	GM 286-M	72 - 96 LB. IN.	SWITCH ASSEMBLY TO PARKING BRAKE LEVER	
GROUP 35G69					
9422280-N	7/16 - 20 (LOCK)	GM 286-M	45 - 55 LB. FT.	STABILIZER TO REAR LOWER ARM	
GROUP 35J50					
9420821-N	3/8 - 24	GM 286-M	11 - 16 LB. FT.	PUSH ROD CLEVIS	
9418931-N	3/8 - 16	GM 286-M	20 - 28 LB. FT.	MASTER CYL. TO POWER CYL. (LANSING PLANT ONLY)	
1361640-N	3/8 - 16	GM 286-M	20 - 28 LB. FT.	POWER CYL. & SUPPORT TO DASH	
GROUP 35J12					
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	
5463495-B	7/16 - 20 X 3.72	GM 300-M	30 - 40 LB. FT.	CALIPER ASSEMBLY TO ADAPTER BRACKET	
3848408-SC	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 - UPPER	
1385356-B	7/16 - 20 X 1.094	C 1118	18 - 25 LB. FT.	HOSE TO CALIPER	
9418931-N	3/8 - 16	GM 286-M	20 - 28 LB. FT.	MASTER CYL. TO POWER CYL. (LANSING PLANT ONLY)	
GROUP 35L30					
9419056-B	3/8 - 16 X 2	GM 280-M	10 - 18 LB. FT.	INTERMEDIATE PIPE TO CROSS OVER PIPE	
1359887-N	5/16 - 18	GM 286-M	132 - 180 LB. IN.	INTERMEDIATE PIPE TO MUFFLER (L3) & L3D	
GROUP 35M1, 35M40					
100151-B	7/16 - 14 X 2 1/2	GM 280-M	20 - 30 LB. FT.	ARM ASSEMBLY TO PEDAL SUPPORT BRACKET	
9420825-SC	5/16 - 18 X 9/16	GM 6010-M	120 - 180 LB. IN.	STARTER CABLE BRACKET TO FRAME	

CHART - WRENCH TORQUE (CHASSIS)		FIRST USED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC 0	PAGE 105
DATE DEC. 5, 1967	DR BY C. GARDON	CHECKED J. HAYES	APP. J. HAYES	SERIES A	PART NO. 402884
44115 C 9418931 ADDED	CG JF	TITLE			
41649 D 1361640 ADDED	CG JF	DATE DEC. 5, 1967			
37349 C WAS 110-114 LB. FT.	KL JF	DR BY C. GARDON			
21268 B 3422302 REMOVED	KL JF	CHECKED J. HAYES			
42968 A WAS 35J52, 35J55	KL JF	APP. J. HAYES			
87146 F WAS 30-40 LB. FT.	KL JF				

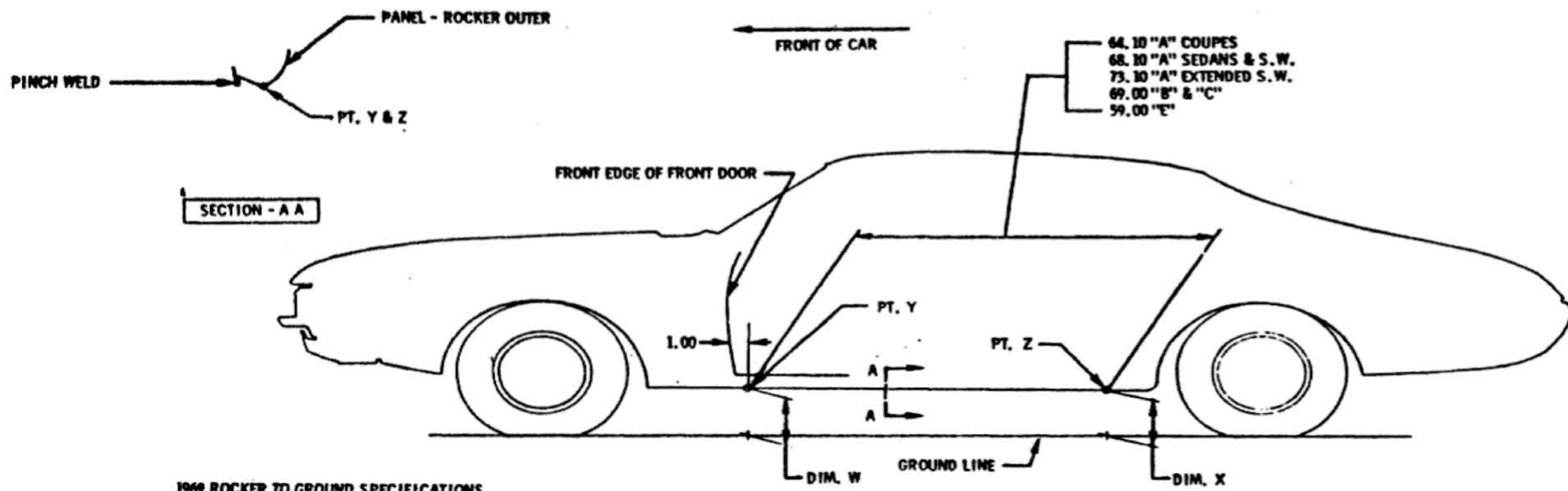
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

PART NO.	DESCRIPTION	MATERIAL	ASSEMBLY LINE	INSTALLATION TORQUE	APPLICATION	AUDIT TORQUE ON COMPLETED CARS
GROUP 35A10 & 11						
9418994-B	3/8 - 24 X 1 1/4	GM 280-M	20 - 28 LB. FT.		CAP TO MANIFOLD (ORND ONLY)	
1359887-N	5/16 - 18	GM 286-M	122 - 180 LB. IN.		MUFFLER TO EXHAUST PIPE - L.H.	
1359887-N	5/16 - 18	GM 286-M	122 - 180 LB. IN.		MUFFLER & TAIL PIPE TO HANGER ASSY - L.H.	
9419402-SC	5/16 - 18 X 3/4	GM 8030-M	72 - 96 LB. IN.		TAIL PIPE HANGER ASSEMBLY TO FRAME	
1363900-SC	420 - 9 X 1 1/4	GM 275-M	108 - 144 LB. IN.		TAIL PIPE TO HANGER ASSEMBLY	
GROUP 35A13						
5673364-N	7/8 - 14	SAE 101P-206	120 - 160 LB. FT.		PITMAN ARM	
GROUP 35A14						
3824475-N	9/16 X 18	GM 301-M	50 - 70 LB. FT.		POWER STEERING PULLEY ASSEMBLY TO PUMP	6 - 75 LB. FT.
7802528-HOSE ASM.			30-40 LB. FT.		PRESSURE HOSE FITTING TO PUMP & TO STEERING GEAR (VB)	
400126-PIPE ASM.			30-40 LB. FT.		RETURN PIPE FITTING TO STEERING GEAR (VB)	
7803311-HOSE ASM.			30-40 LB. FT.		PRESSURE HOSE FITTING TO PUMP AND TO STEERING GEAR (LB)	
391562-PIPE ASM.			30-40 LB. FT.		RETURN PIPE FITTING TO STEERING GEAR (LB)	
GROUP 35P02						
580943-SC	48 - 18 X .63	HARDENED STEEL	30 - 40 LB. IN.		ENABLE TO DISC	
580943-SC	48 - 18 X .63	HARDENED STEEL	30 - 40 LB. IN.		INNER DISC TO ORNAMENT	
580943-SC	48 - 18 X .63	HARDENED STEEL	30 - 40 LB. IN.		ORNAMENT TO RETAINER RING	
GROUP 35P05						
399683-N	7/16 - 20 (ACORN)	SAE 1110	60 - 80 LB. FT.		WHEEL TO HUB	50 - 90 LB. FT.
9422065-SC	1/4-14 X 1.00		30 - 40 LB. IN.		ORNAMENT TO WHEEL	
GROUP 97						
1366144-B	7/16 - 24 X 2.62	GM 260-M	30 - 45 LB. FT.		BODY MOUNTING #2	25 - 55 LB. FT.
5462220-N	3/8 - 26 (LOCK)	GM 286-M	20 - 28 LB. FT.		CYLINDER ASSEMBLY TO POWER HEAD (GMAO PLANTS ONLY)	
9421430-B	1/2 - 13 X 3 3/4	GM 300-M	90 - 120 LB. FT.		UPPER ARMS TO FRAME CROSS MEMBER (GMAO PLANTS ONLY)	60 - 110 LB. FT.
9421430-B	1/2 - 13 X 3 3/4	GM 300-M	90 - 120 LB. FT.		UPPER ARMS TO DIFFERENTIAL CARRIER (GMAO PLANTS ONLY)	60 - 110 LB. FT.

SHEET 5

TITLE		CHART - WRENCH TORQUE (CHASSIS)	
DATE DEC. 5, 1967	FIRST USED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. PAGE 0 106
DR. BY C. GORDON	CHECKED J. Amos	SERIES A	PART NO. 402884
APPR. J. L. ...			

1-2968 CR 9421430-B ADDED
1-2968 B WH: 9-20925
1-2968 R4 PART NO. HIGEL



1969 ROCKER TO GROUND SPECIFICATIONS

SERIES	MODEL	HEIGHT		TIRE PRESSURE	
		DIM. W	DIM. X	FRONT	REAR
A	SEDAN V-8	10.00	10.00	25 PSI	25 PSI
A	COUPE V-8	9.90	9.70	25 PSI	25 PSI
A	COUPE (4-4-2)	9.46	9.33	26 PSI	26 PSI
A	STA. WAG. (REG.) V-8	10.86	11.08	25 PSI	32 PSI
A	STA. WAG. (EXT.)	11.16	11.38	22 PSI	30 PSI
B	ALL	9.00	9.00	25 PSI	25 PSI
C	ALL	9.20	9.20	25 PSI	25 PSI
E	ALL	8.00	7.93	25 PSI	25 PSI

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

THE ABOVE DIMENSIONS ARE FOR STANDARD CARS BUT INCLUDE AN ADDITIONAL WEIGHT FACTOR TO COMPENSATE FOR THE NORMAL FACTORY INSTALLED ACCESSORIES. CARS SHOULD BE CHECKED WITH TIRE PRESSURES SET AS SHOWN, FULL FUEL TANK OR EQUIVALENT WEIGHT IN THE TRUNK AND FRONT SEAT IN REAR POSITION.

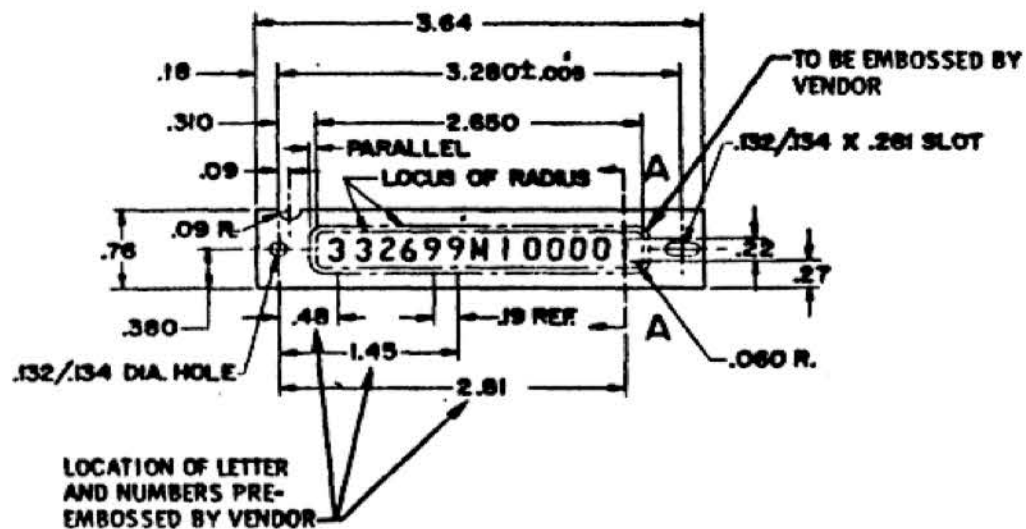
PRODUCTION TOLERANCES

1. EACH DIMENSION $\pm .40$.
2. SIDE TO SIDE VARIATIONS FROM SPECS. NOT TO EXCEED .50.
3. FRONT TO REAR VARIATIONS FROM SPECS. NOT TO EXCEED .40.

TITLE CHART - VEHICLE CARRYING HEIGHT SPECIFICATIONS AT CURB WEIGHT															
DATE NOV. 19, 1968					FIRST ISSUED		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE						
DR. BY C. GORDON					1969		INFORMATION MANUAL		O 113						
CHECKED John Amiel					REF.		SERIES		PART NO.						
APPR. J. L. Lemack							A-B-C-E		405553						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

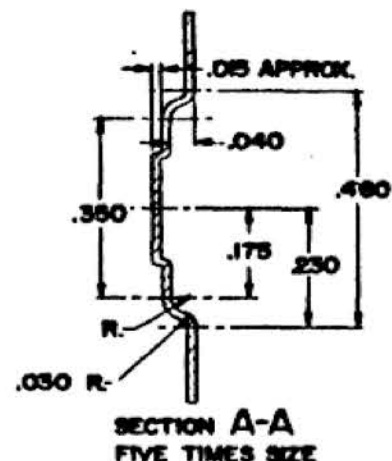
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

PART NO.	MODEL YEAR & PLANT IDENTITY	PLANT	STARTING SERIAL NO.
1385614	NONE		BLANK
403435	9M	LANSING, MICHIGAN	100001
403436	9Z	FREMONT, CALIFORNIA	100001
ⓐ 403437	9X	FAIRFAX, KANSAS	100001
403438	9E	LINDEN, NEW JERSEY	100001
403439	9C	SOUTH GATE, CALIFORNIA	100001
ⓑ 403440	9D	DORAVILLE, GEORGIA	100001
1385614	91	OSHAWA, CANADA	100001



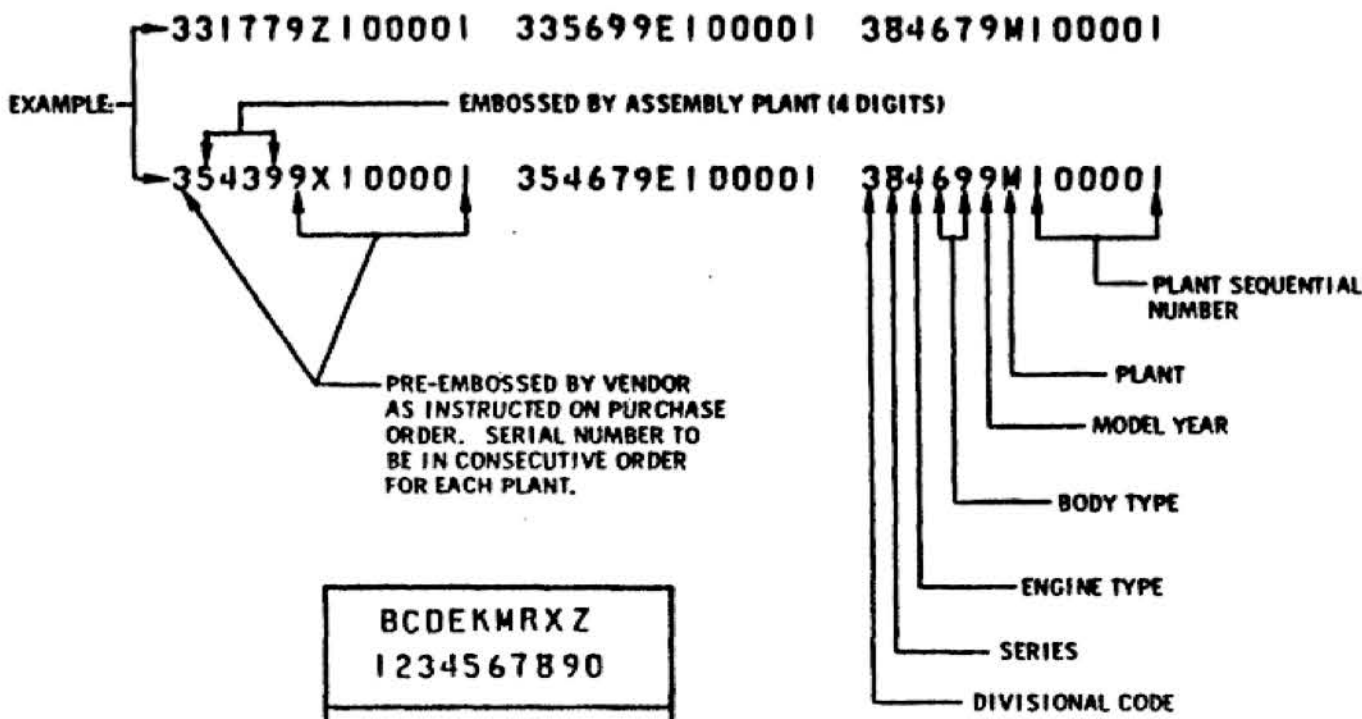
LOCATION OF LETTER AND NUMBERS PRE-EMBOSSED BY VENDOR

ALL PLANTS TO BE FURNISHED PRE-EMBOSSED PLATES



SECTION A-A
FIVE TIMES SIZE

NAME	SERIES	SERIES & ENGINE NO. (TO BE EMBOSSED AT ASSEMBLY PLANTS AS THE SECOND & THIRD PREFIX DIGIT)
F85 L6 ENGINE	33100	31
F85 V8 ENGINE	33200	32
CUTLASS L6 ENGINE	33500	35
CUTLASS V8 ENGINE	33600	36
CUTLASS SUPREME	34200	42
"442" V8 ENGINE	34400	44
CUSTOM VISTA CRUISER	34800	48
DELTA 88	35400	54
ⓓ DELTA 88 CUSTOM	36400	64
ⓔ DELTA 88 ROYALE	36600	66
NINETY-EIGHT SERIES	38400	84
NINETY-EIGHT LUXURY	38600	86
DRIVEAWAY CHASSIS (LANSING ONLY)	39800	98



BODY TYPE	BODY CODE
STATION WAGON-2 SEAT	35
HARDTOP COUPE (5400-6400)	37
HOLIDAY SEDAN	39
HARDTOP COUPE (6600)	47
STATION WAGON-2 SEAT (EXTENDED)	55
HARDTOP COUPE (8400)	57
STATION WAGON-3 SEAT (EXTENDED)	65
CONVERTIBLE	67
4 DOOR SEDAN	69
CLUB COUPE (F85)	77
HARDTOP COUPE (F85)	87
SHORT SILL COWL	60

MATERIAL:
STEEL - SAE 1008-1010
.014 STOCK

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

FINISH:
PAINT FLAT BLACK PER G. M. 4350-M, CLASS CD.

NO.	REV.	DATE	BY	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
11769	G				WAS KANSAS CITY KANSAS	1969		0	116
11769	F				WAS ATLANTA, GEORGIA				
11769	E				WAS DELTA ROYALE 88				
11769	D				WAS DELTA CUSTOM 88				
11769	C				WAS DELTA 88 CUSTOM				
11769	B				WAS DELTA 88 SERIES				
11769	A				WAS DELMONT 88				

CHART - VEHICLE IDENTIFICATION NUMBER PLATE

SERIES **A-B-C** PART NO. **403434**

1. VEHICLE IDENTIFICATION NUMBER:
ON EMBOSSED PLATE LOCATED ON THE BODY LEFT HAND UPPER INSTRUMENT PANEL. SEE SECTION "O", CHART 403434, PAGE 116 FOR VEHICLE PLATE STARTING SERIAL NUMBERS.

2. ENGINE UNIT NUMBER: (FOR MANUFACTURING AND SERVICE USE)
V8 ENGINES:
UNIT NUMBER IS STAMPED ON THE ENGINE OIL FILL TUBE. THE ENGINE CODE TAPE IS INSTALLED DIRECTLY ABOVE THE ENGINE NUMBER. THE COMPLETE ENGINE NUMBER SHALL CONSISTS OF THE ENGINE CODE FOLLOWED BY THE SEVEN DIGIT NUMBER.

STARTING ENGINE UNIT NUMBERS: SEE SECTION 6-1, CHART 403041, PAGE 100.
EXAMPLE: QA9001001

L6 ENGINES:
THERE IS NO L6 ENGINE UNIT NUMBER. A DATE CODE IS STAMPED ON A PAD ON THE RIGHT HAND SIDE OF THE CYLINDER BLOCK TO THE REAR OF THE DISTRIBUTOR.

EXAMPLES: F0207VA, F1115VB
'F' WILL DESIGNATE FLINT MOTOR PLANT. THE FIRST TWO (2) DIGITS DESIGNATE THE MONTH AND THE SECOND TWO (2) DIGITS DESIGNATE THE DAY THE UNIT WAS PRODUCED (0207 - FEBRUARY 7, 1115 - NOVEMBER 15). THE LAST TWO (2) LETTERS DESIGNATE THE TYPE OF ENGINE.

- | | |
|--|---|
| VA - SMT ENGINE | VE - AUTO. TRANSMISSION ENGINE |
| VB - SMT WITH C60 OR Y72 | VF - AUTO. TRANSMISSION WITH C60 OR Y72 |
| VJ - SMT EXPORT ENGINE | VK - AUTO. TRANSMISSION EXPORT ENGINE |
| VL - SMT EXPORT ENGINE WITH C60 OR Y72 | VM - AUTO. TRANSMISSION EXPORT ENGINE WITH C60 OR Y72 |

3. TRANSMISSION UNIT NUMBER: (FOR MANUFACTURING & SERVICE USE)
MANUAL TRANSMISSION:
DEPENDING ON THE TYPE OF 3 SPEED OF 4 SPEED MANUAL TRANSMISSION THE DATE CODE AND SERIAL NUMBER WILL BE AS FOLLOWS:

STANDARD SMT - DATE CODE STAMPED ON LEFT HAND SIDE ON BOSS BELOW THE SIDE COVER.
EXAMPLE: S9508 15 - SAGINAW TRANSMISSION PLANT, 9 - 1969, S - NOVEMBER, 08 - 8TH DAY)

MONTH CODES FOR THE ABOVE ARE AS FOLLOWS:
A - JANUARY E - MAY P - SEPTEMBER
B - FEBRUARY H - JUNE R - OCTOBER
C - MARCH K - JULY S - NOVEMBER
D - APRIL M - AUGUST T - DECEMBER

1" HIGH CODE LETTERS TO ALSO APPEAR ON THE R. H. SIDE OF THE CASE.

M14 HEAVY DUTY MANUAL 3 SPEED TRANSMISSION - SERIAL PLATE LOCATED ON THE R. H. SIDE OF THE CASE.

EXAMPLE: HEGAF (MODEL CODE)
10001 (SERIAL NUMBERS - CONSECUTIVE STARTING WITH 10001)

2" HIGH CODE LETTERS DB TO ALSO APPEAR ON R. H. SIDE OF THE EXTENSION.

M20 & M21 MANUAL 4 SPEED TRANSMISSION - DATE CODE STAMPED ON THE REAR R. H. SIDE OF CASE.

EXAMPLE: P9R03 (P - MUNCIE TRANSMISSION PLANT, 9 - 1969, R - OCTOBER, 03 - 3RD DAY).

MONTH CODES SAME AS FOR STANDARD SMT.

1" HIGH CODE LETTERS TO ALSO APPEAR ON THE R. H. SIDE OF THE CASE.

© JETAWAY AND TURBO HYDRA-MATIC 350 TRANSMISSION YEAR, MODEL AND DATE CODE INFORMATION IS STAMPED ON THE BAND SERVO COVER WHICH IS LOCATED ON THE R. H. SIDE OF THE TRANSMISSION. THIS INFORMATION CONSISTS OF TWO DIGITS FOR THE MODEL YEAR, TWO LETTERS FOR THE MODEL CODE, THREE DIGITS TO INDICATE THE DAY OF PRODUCTION THAT THE TRANSMISSION WAS BUILT AND N OR D TO INDICATE NIGHT OR DAY SHIFT.

© TURBO HYDRAMATIC 400 TRANSMISSION SERIAL NUMBER IS STAMPED ON A PLATE LOCATED ON THE RIGHT HAND SIDE OF THE CONVERTOR HOUSING.

EXAMPLES: 690G1001, 690H1001, ETC.

FOR MODEL CODE & TRANSMISSION USAGE, SEE SECTION "7", CHART 403048, PAGE 100.

4. REAR AXLE ASSEMBLY NUMBERS (FOR MANUFACTURING AND SERVICE USE)

A. DATE CODE IS STAMPED ON THE COMPANION FLANGE SHIELD. MONTH IS CODED AND ACTUAL NUMBER IS USED FOR THE DAY BUILT.

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

EXAMPLE: AXLE BUILT OCTOBER 11 WOULD BE STAMPED L11.

B. RATIO CODE IS STAMPED ON THE REAR OF THE R. H. AXLE TUBE ADJACENT TO THE CARRIER. SEE SECTION 4, CHART 402728, PAGES 104 & 105 FOR CODES AND RATIO.

5. PROTECTIVE NUMBERS:

A. THE LAST EIGHT (8) SYMBOLS OF THE VEHICLE NUMBER ARE STAMPED AT SEVERAL LOCATIONS ON EVERY CAR.

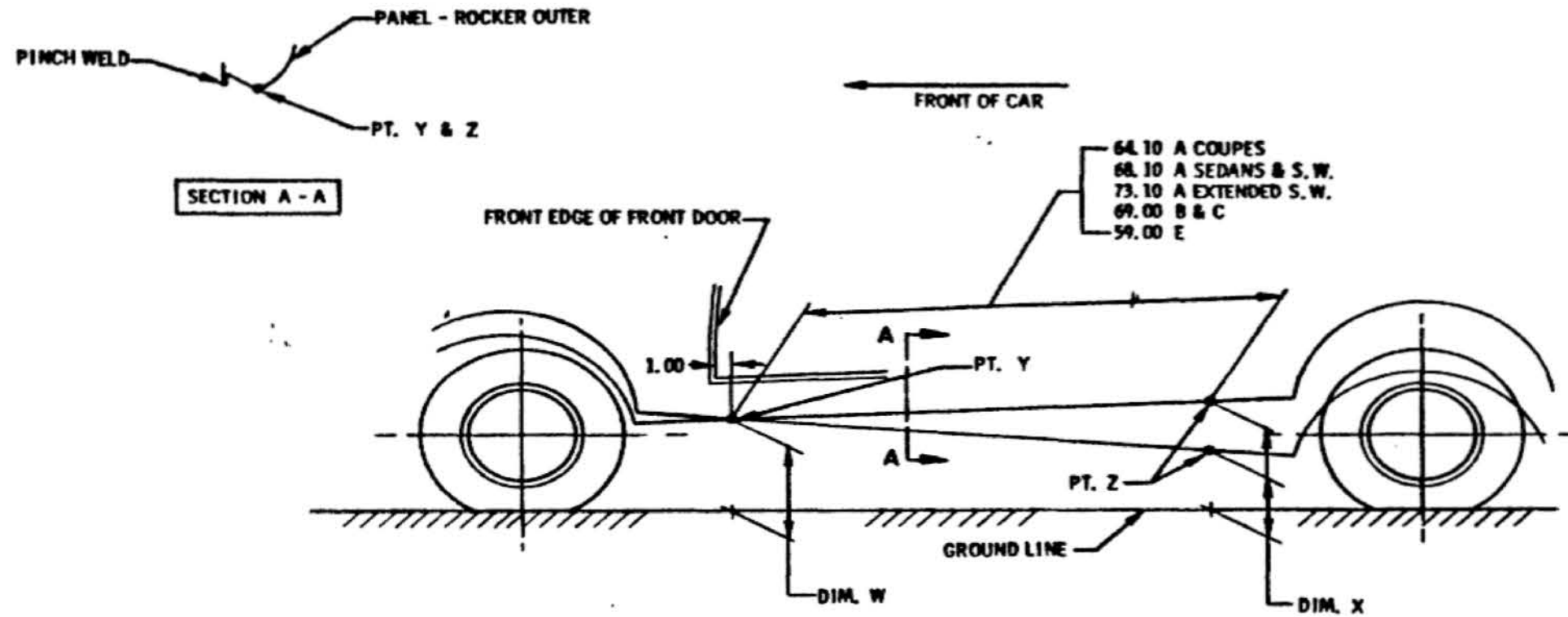
LOCATIONS OF THIS NUMBER MAY BE OBTAINED BY CONTACTING EITHER OF THE FOLLOWING OFFICES: PRODUCTION MANAGER OR STANDARDS ENGINEER
LANSING, MICHIGAN

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

VEHICLE IDENTIFICATION NUMBER - 336699M100001
ENGINE AND TRANSMISSION PROTECTIVE NUMBER - 39M100001

SEE SECTION "O", CHART 401900-1-2, PAGE 170 FOR LOCATION OF EACH COMPONENT.

TITLE										CHART - VEHICLE IDENTIFICATION				
										DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
										APRIL 30, 1968	1969		0	117
										DR. BY BILL SCHMIDT				
										CHECKED J. JAMES				
										APPR. [Signature]		SERIES	PART NO.	
												A	401900	

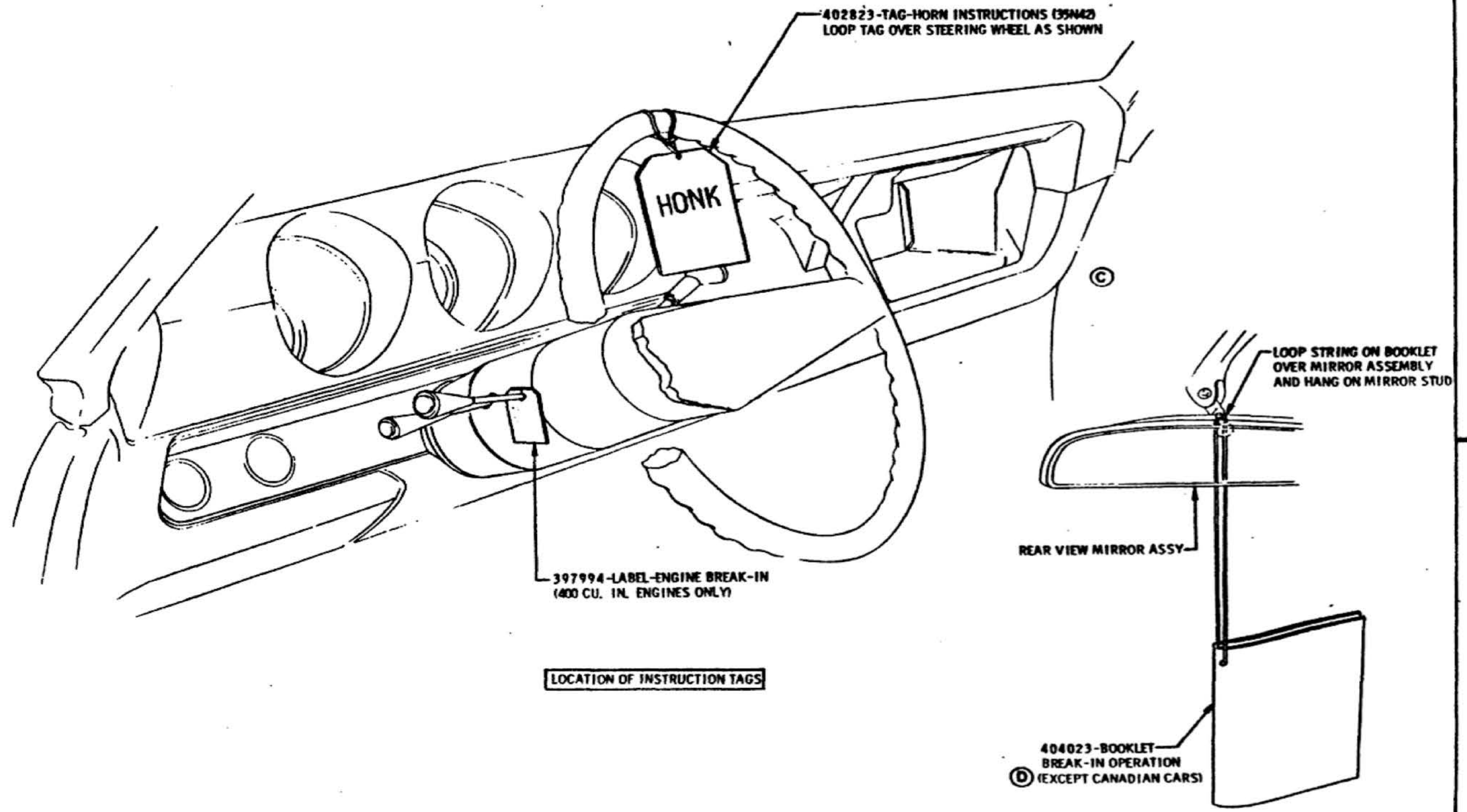


CHECK POINTS Y & Z LOCATED AS SHOWN ON BOTTOM OF ROCKER PANEL

ROCKER SPECIFICATION: $DIM. X = DIM. W + 1.00$
 $- 1.80$ AT 5 PASSENGER LOAD AND FULL TANK OF GASOLINE (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

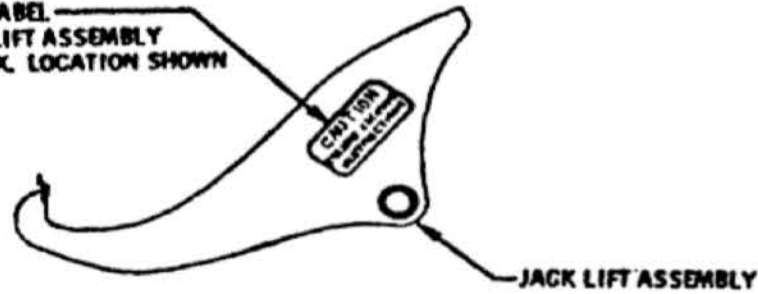
										TITLE		CHART-ROCKER PANEL SLOPE SPECIFICATION			
										DATE <i>JULY 2 1968</i>		FIRST USED			
										DR BY <i>BILL SCHMIDT</i>		1969			
										CHECKED <i>J. Ames</i>		OLDSMOBILE PRODUCT INFORMATION MANUAL			
										APPR. <i>DEL</i>		MANUAL SEC. PAGE			
												0 119			
												SERIES			
												A-B-C-E			
												PART NO.			
												404315			
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.



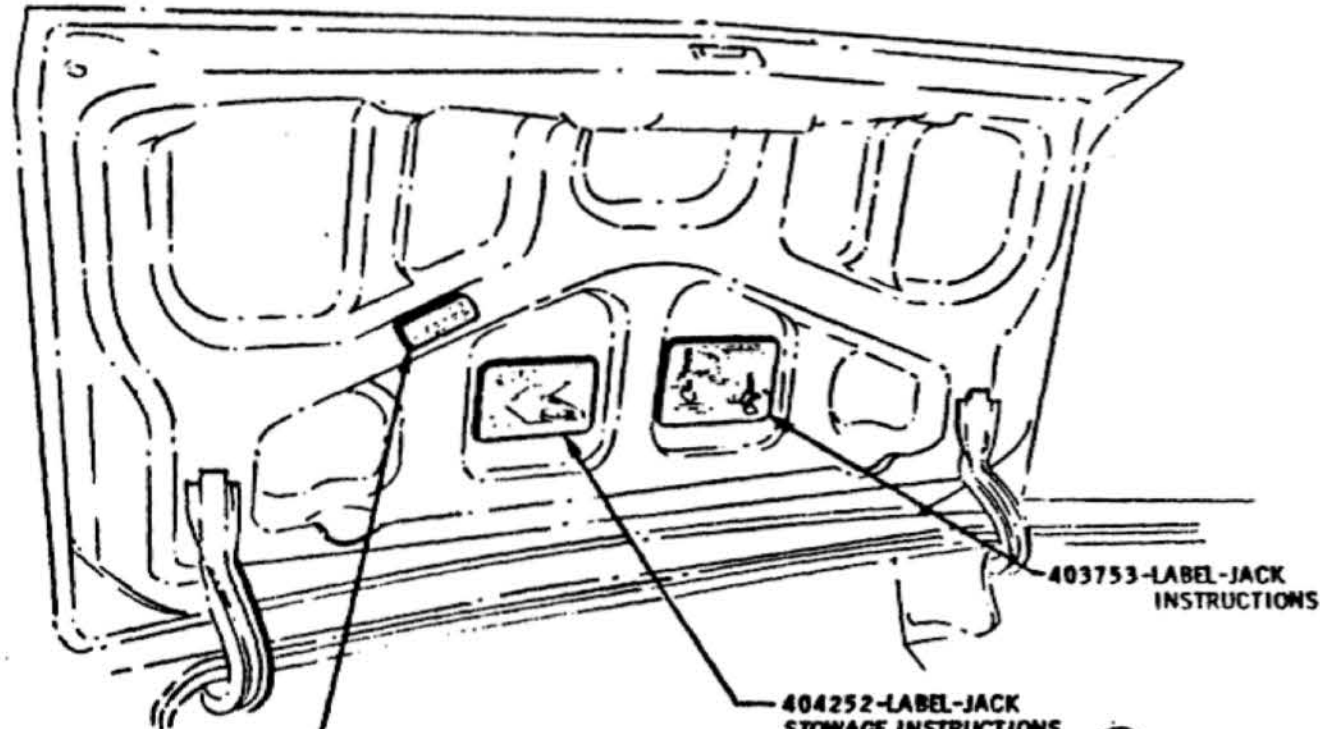
LOCATION OF INSTRUCTION TAGS

REV.	DATE	BY	CHK.	SYMBOL	REVISION	DR.	CHK.	DATE	SYMBOL	REVISION	DR.	CHK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	PART NO.
11-15-68		D			USAGE NOTE ADDED	BP	DT							DATE MAR. 13, 1968	1969		0	121	
8-8-68		C			398170 LABEL REMOVED	BP	DT							DR. BY B. PARKER					
8-8-68		B			VIEW ADDED	BP	DT							CHECKED JSM					
8-8-68		A			402823 TAG ADDED	BP	DT							APPR. JSM 3/19/68					
														REF. 0	SERIES A			401900	

580822-LABEL
AFFIX TO LIFT ASSEMBLY
IN APPROX. LOCATION SHOWN



JACK CAUTION LABEL



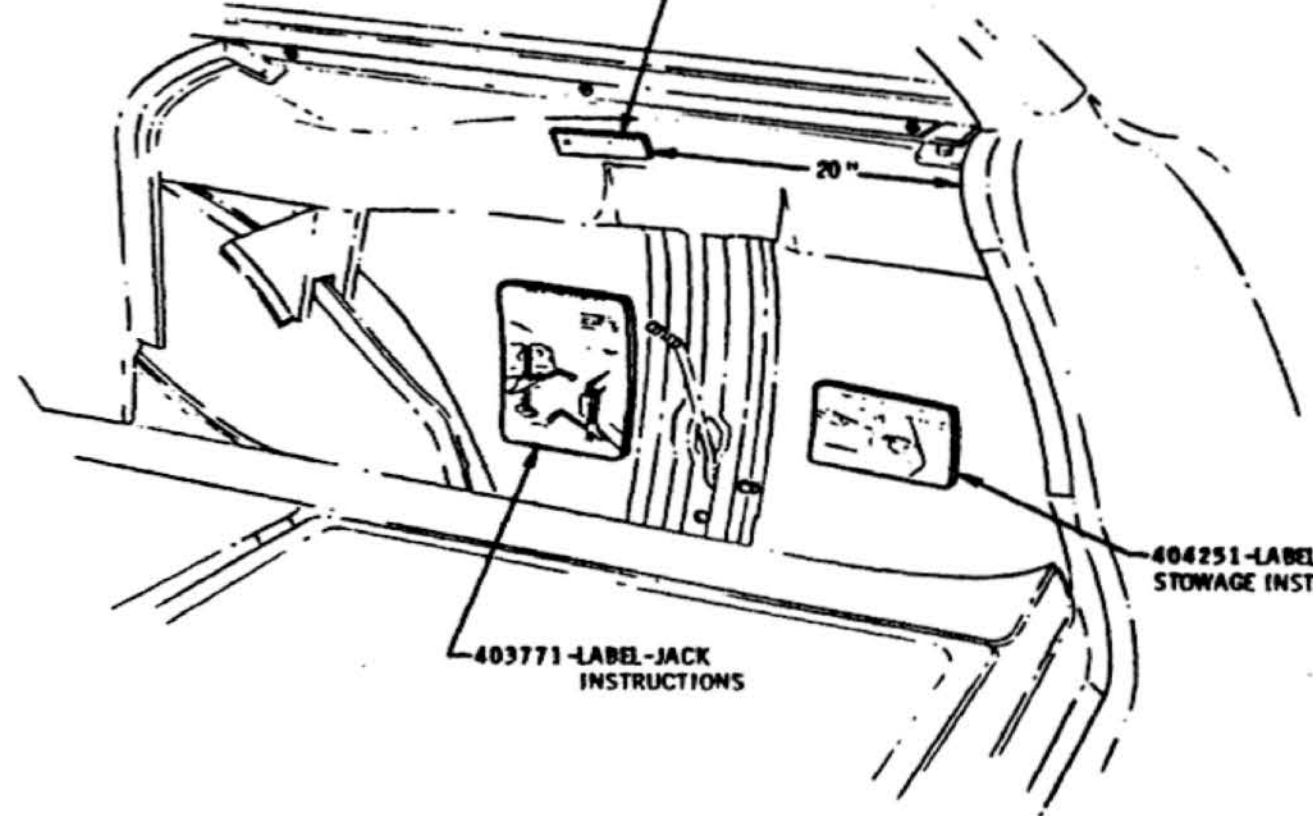
403753-LABEL-JACK
INSTRUCTIONS

404252-LABEL-JACK
STOWAGE INSTRUCTIONS
(EXC. 35N66, 35P05, 35P37) **(A)**
404303-LABEL-JACK STOWAGE
INSTRUCTIONS (35N66, 35P05, 35P37) **(C)**
(B)

587514-LABEL-ANTI-SPIN
DIFFERENTIAL

INSTALLATION OF LABELS
(EXCEPT STATION WAGONS)

587514-LABEL
ANTI-SPIN DIFFERENTIAL
LOCATE IN APPROX
LOCATION SHOWN

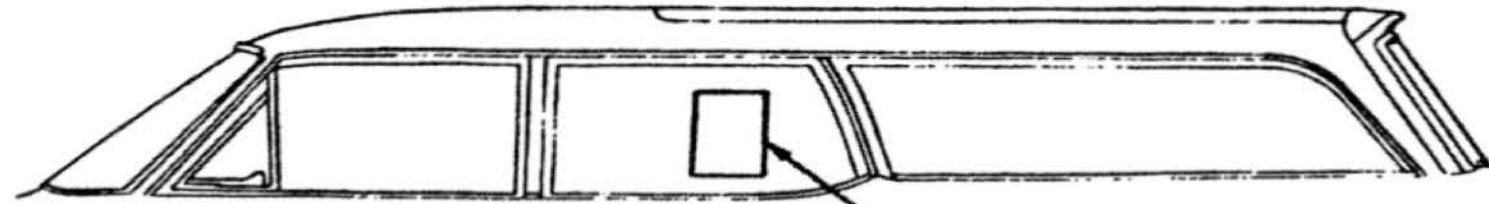


404251-LABEL-JACK
STOWAGE INSTRUCTIONS

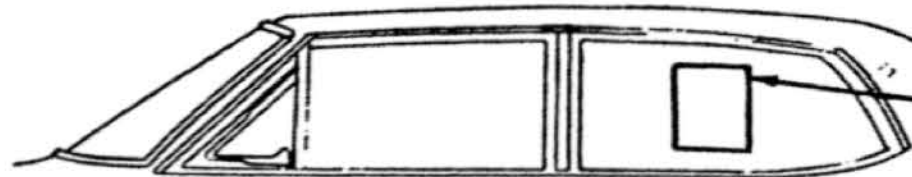
403771-LABEL-JACK
INSTRUCTIONS

INSTALLATION
OF LABELS
STATION WAGONS

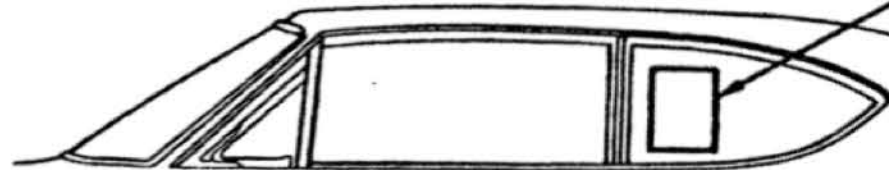
				TITLE				LABELS			
				DATE	JUNE 12, 1969	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE	
				DR. BY	B. PARKER	OLDSMOBILE PRODUCT	INFORMATION MANUAL		0	122	
				CHECKED	JRM	REV.	18E	SERIES	A	PART	
				APPR.	SMA 6/14/69	NO.	35600			401900	
				BY DIVISION							
				DR. CK.							
				APPR.							



STATION WAGON MODELS



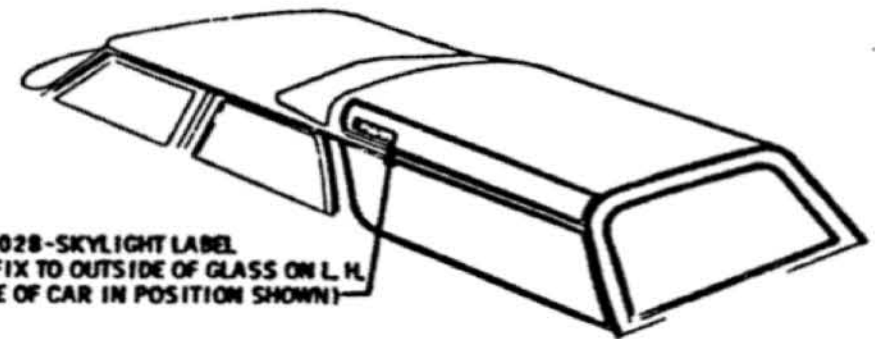
FOUR DOOR MODELS



TWO DOOR MODELS

383831-DOMESTIC RETAIL PRICE LABEL
400950-CANADA RETAIL PRICE LABEL
9428351-"FOR EXPORT ONLY" PRE-PRINTED LABEL

MAINTAIN THE LUBRICATING OIL MOISTENED REAR SIDE W.

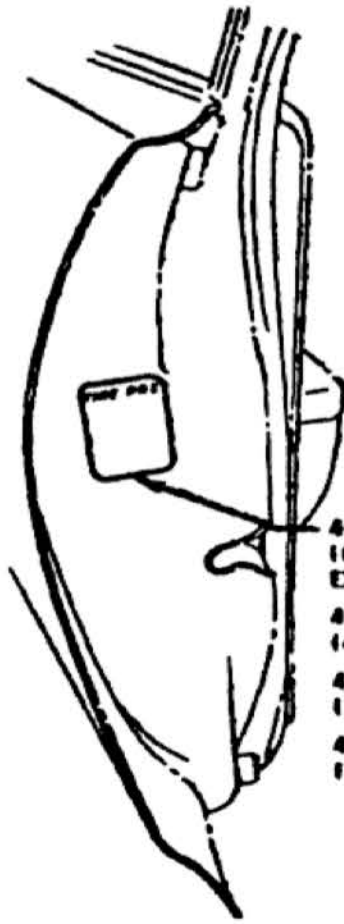


393028-SKYLIGHT LABEL
(AFFIX TO OUTSIDE OF GLASS ON L. H. SIDE OF CAR IN POSITION SHOWN)

VISTA-CRUISER
STATION WAGONS

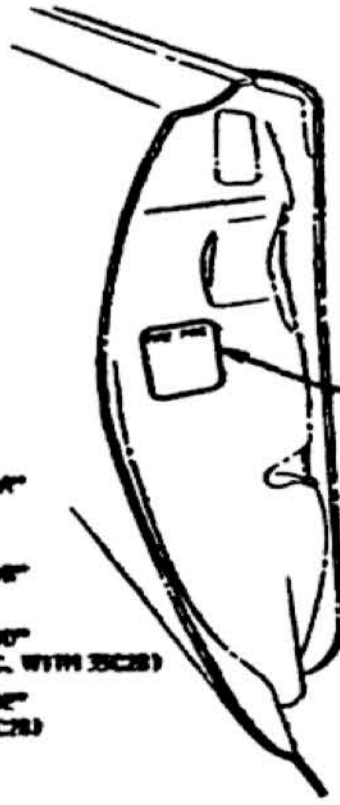
DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	DATE	SYM.	REVISION

TITLE LABEL LOCATIONS		FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
DATE	MAY 17, 1968	1969		0	
DR. BY	P. J. McKESSY				
CHECKED	MFB/antant				
APPR.	[Signature]	REV. 18F 1A2E 97V7B 96-14	SERIES	A	PART NO. 401C
APPR.	[Signature]				



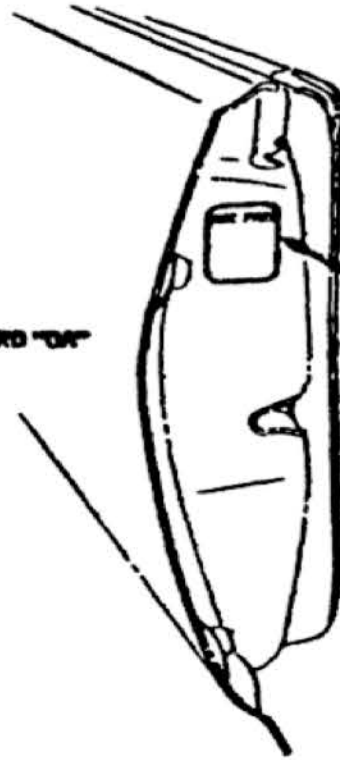
403575-PLACARD "OF"
(COUPES & SEDANS
EXC. 4477) (C) (D)
403576-PLACARD "OF"
(4477)
403578-PLACARD "OF"
(3535, 3635) (4855 EXC. WITH 35C28)
403579-PLACARD "OF"
(4855) (4855 WITH 35C28)

ALL STATION WAGONS
AND F-85 SEDANS & COUPES



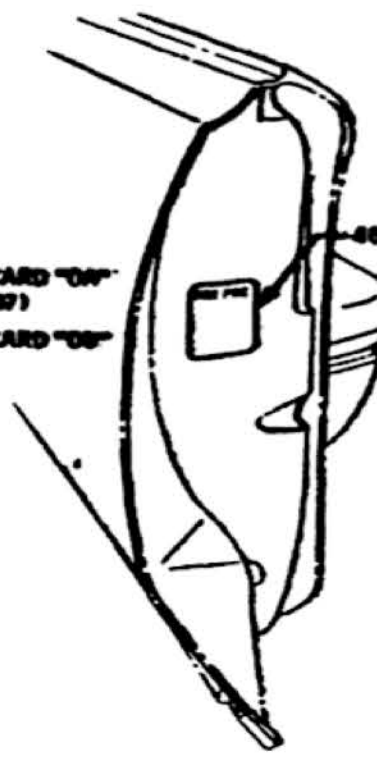
(C) (D)
403575-PLACARD "OF"

F-85 4 DOOR
HARDTOPS



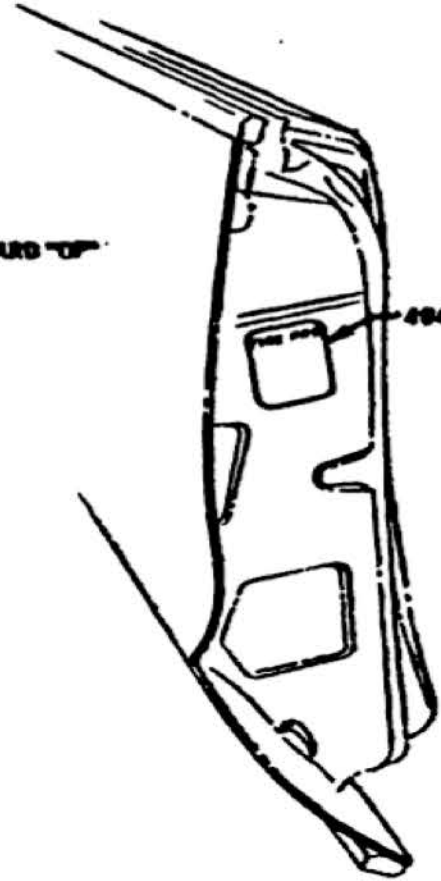
(C) (D)
403575-PLACARD "OF"
(EXC. 4857, 4857)
403576-PLACARD "OF"
(4857, 4857)

F-85 2 DOOR
HARDTOPS
& CONVERTIBLES



403580-PLACARD "OF"

EIGHTY EIGHTS
&
NINETY EIGHTS



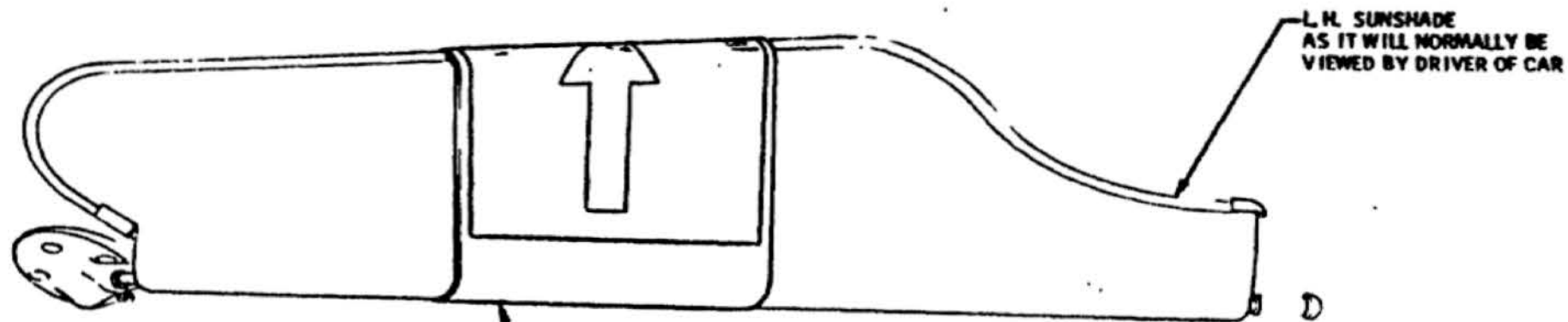
404469-PLACARD "OF"
(E)

TORONADO

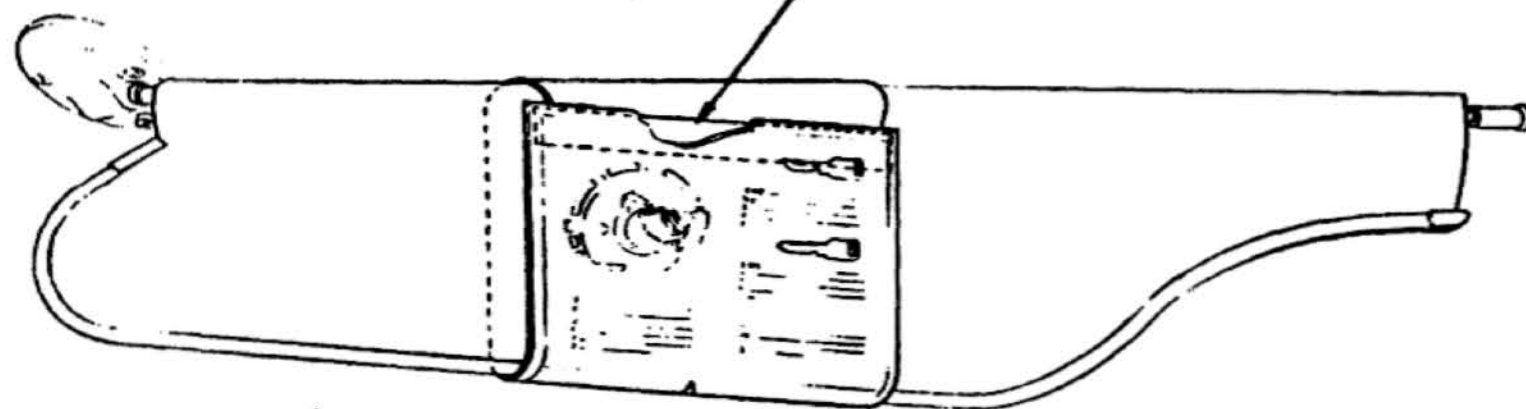
NOTE:
PLACARD TO BE INSTALLED TO DOOR PANEL
WITH A DOUBLE ROLL WITH 12LB. MINIMUM
FORCE ON A FISHER, FS111 RUBBER ROLLER
OR EQUIVALENT.

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

										PLACARD - TIRE PRESSURE			
DATE	BY	REVISION	TITLE	DATE	BY	REVISION	TITLE	DATE	BY	REVISION	MODEL	PAGE	
3-18-69	D		PART NOS. REVISED	PL	PTS		DATE JUNE 25, 1968	1969	OLDSMOBILE PRODUCT		0	125	
2-12-69	C		PART NOS. REVISED	PL	PTS		DR. BY Pete Lucatelli		DISSEMINATION MANUAL				
8-23-68	B		WAS 403577 LABEL	PL	PTS		CHECKED BY J. J. ...						
8-8-68	A		NOTE ADDED	PL	PTS		APPR. J. E. ...						
							DATE 5/12/68						
										A-B-C-E		401900-1-2	



LOCATION OF LABEL ON
SUNSHADE IN RAISED
POSITION



LOCATION OF LABEL ON
SUNSHADE IN LOWERED
POSITION

										TITLE		LABEL-IGNITION LOCK SYSTEM							
										DATE	AUG 9 1969		FIRST USED	1969		OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE	
										DR BY	B. PARKER				INFORMATION MANUAL		0	127	
										CHECKED	J. H. [Signature]		REF.	0		SERIES	PART NO.		
										APPR	[Signature]				A-B-C-E	401900-1-2			
REV	DATE	SYM	REVISION	DR	CK	APPR													

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

NAME OF INSTALLATION	INSTALLATION REFERENCE NUMBER	PACKAGE NUMBER	TEMPLATE PART NUMBER	TEMP. DWG. SIZE	DESCRIPTION OF TEMPLATE	NAME OF INSTALLATION	INSTALLATION REFERENCE NUMBER	PACKAGE NUMBER	TEMPLATE PART NUMBER	TEMP. DWG. SIZE	DESCRIPTION OF TEMPLATE
ANTENNA - MANUAL	401207	983070	400811	B	FENDER DRILLING - FRONT	LAMP - UNDERHOOD	403755	983077			
ANTENNA - ELECTRIC	403751	983078 (EXC. COUPE) 983079 (COUPE)	400933 403767 403768 404322	D D C C	FENDER DRILLING - REAR (CONV.) FENDER DRILLING - REAR (4 DOOR) FENDER DRILLING - REAR (COUPE) INSTRUMENT PANEL CUTOUT	LATCH - TRUNK RELEASE	403756	983097			
						LOCK - DOOR SAFETY	403757	983096			
						LOCK - SPARE WHEEL	401226	982995			
						MIRROR - OUTSIDE - R. H.	403758	983080	403769	D	R. H. DOOR PANEL DRILLING
						MIRROR - REMOTE	403759	983081	403770	C	DOOR TRIM PANEL CUTOUT
						MIRROR - VISOR VANITY	403760	983075			
						RADIO	403761	983061 (DELUXE) 983062 (AM - FM) 983104 (STEREO)			
CARRIER - LUGGAGE (STATION WAGON)	401481	982904 (35, 3600) 982890 (4800)				SPEAKER - REAR SEAT	403762	983055 (EXC. SW & CONV.) 983057 (CONV.) 983056 (STA. WGN.)	406291	C	L. H. REAR TRIM CUTOUT
CARRIER - SKI (STATION WAGON)	401548	982997				TAPE PLAYER	403763	983046			
CLOCK	401296	982897				AUX. OIL COOLER	403764	230624			
CRUISE CONTROL	403754	983089 (ADAPTER) 983088	403774	B	INSTRUMENT PANEL CUTOUT	TISSUE DISPENSER	403765	983009			
DEFLECTOR - ROOF (STATION WAGON)	404333	983101				POWER BRAKE - L-6	230559	982952			
DEFOGGER - REAR WINDOW	404332	982960	404322	C	INSTRUMENT PANEL CUTOUT	POWER BRAKE - V-8	230560	982953			
IGNITION - HIGH VOLTAGE	404271	230651				POWER STEERING L-6	230562	982955			
LAMP - COURTESY	404358	983086	404322	C	INSTRUMENT PANEL CUTOUT	POWER STEERING V-8	230563	982957			
LAMP - GLOVE BOX	401212	982934									
LAMP - TRUNK	401254	982851									

(A)

(B)

TITLE										CHART-DEALER INSTALLATIONS AND TEMPLATES									
DATE										JUNE 13, 1969									
DR. BY										E. Goodwin									
CHECKED										JOE V. GALL									
APPR.																			
REV.										1969									
SERIES										A									
PART NO.										401900									
MARGIN SEC.										PAGE 128									
3-11-68 B TEMPLATE NO ADDED										PL BY									
3-5-68 A NOS. REVISED										PL BY									

Ⓐ

Ⓑ[Ⓐ]
INITIAL FILL 16.5 OZ. MINIMUM OF SOLUTION.
(THE RATIO OF SOLVENT TO WATER REQUIRED FOR 0° F. AND 24° F.
PROTECTION IS SHOWN BELOW.)

TIME PERIOD	FREEZING POINT	MIXTURE SOLVENT TO WATER	AMOUNT OF #9985129 SOLVENT TO MAKE 55 GAL. OF SOLUTION (ADD WATER)
OCTOBER 2 THRU MARCH 31	0° F.	1:2	18.3 GAL.
APRIL 1 THRU OCTOBER 1	24° F.	1:10	5.0 GAL.

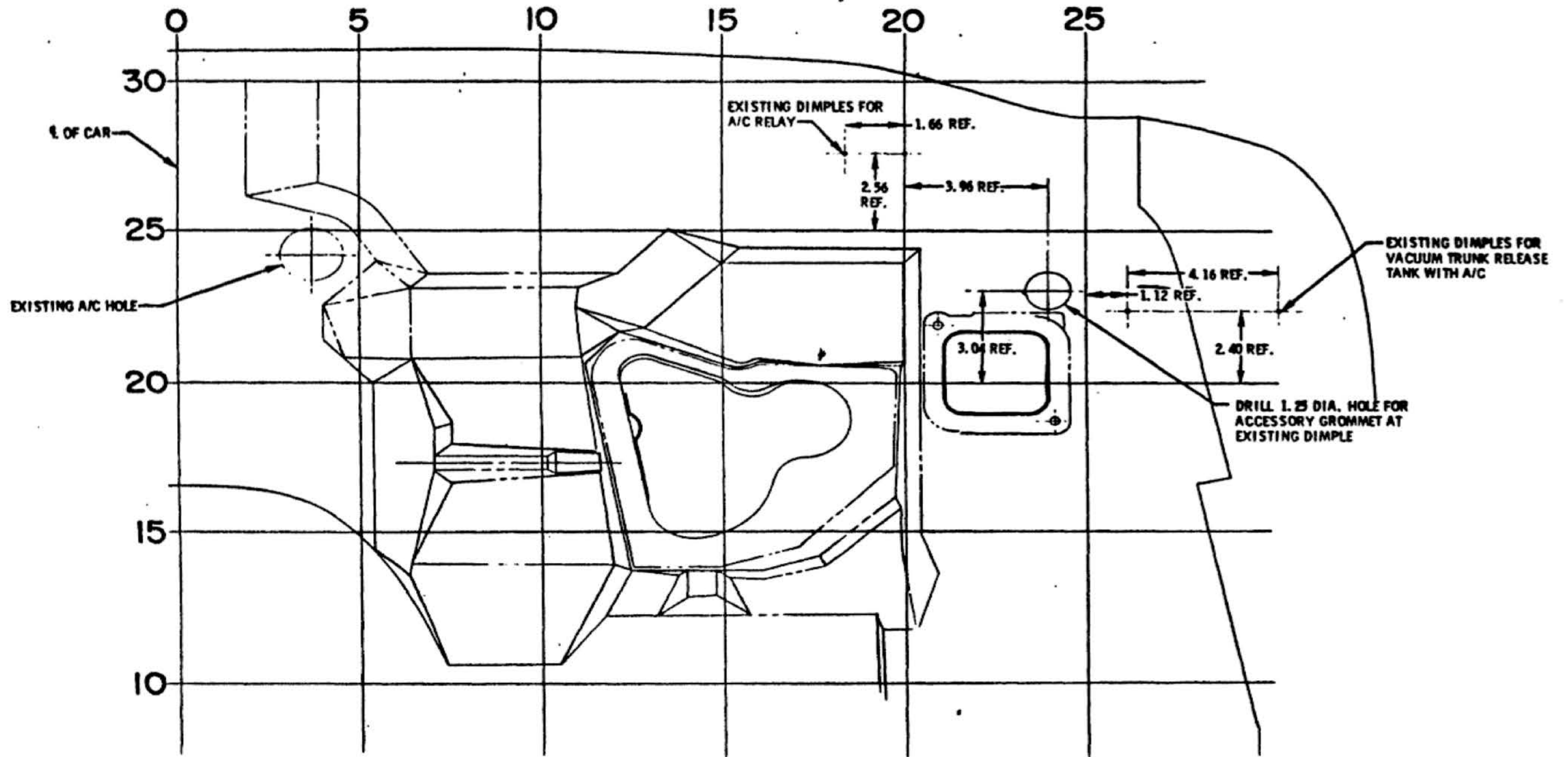
PRODUCTION SAMPLE TO BE APPROVED BY PRODUCT ENGINEERING FOR OLDSMOBILE PARTS.
SOLVENT TO BE USED IS SHOWN UNDER G.M. STANDARD PART NO. 9985129.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
																CHART - WINDSHIELD WASHER SOLUTION	1969		0	130	A-B-C-E	402979
																DATE <i>JAN 13, 1968</i>						
																DR. BY <i>BILL SCHMIDT</i>						
																CHECKED <i>J. FITZ</i>						
																APPR.						
																REF. <i>J</i>						
																REVISION						
																112268 B WAS 15 PINTS						
																68668 A NOTE REVISED						

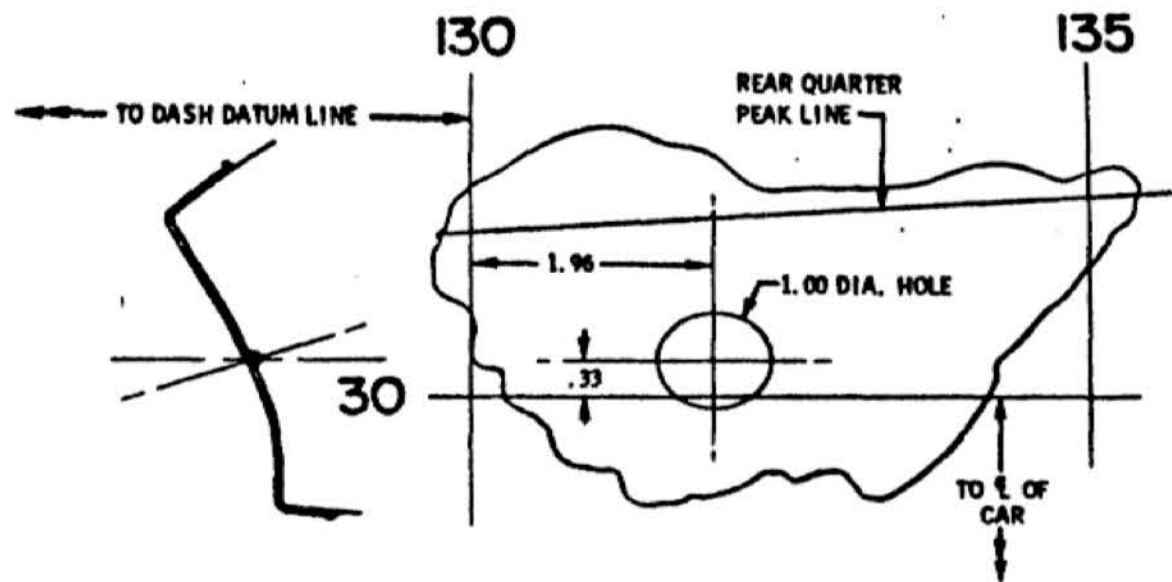
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

G.M. SPEC. PART NO.	DESCRIPTION	USAGE	SERIES	APPROVED SOURCES
9985156	OIL SOLUBLE ONE PART OIL TO 99 PARTS WATER	TO BE APPLIED TO ALL BUMPER'S IMMEDIATELY AFTER PLATING, FOR PROTECTION DURING HANDLING, PACKAGING AND STORAGE	A, B, C, E	PILLSBURY G-6-GO
9985156	OIL, SOLUBLE ONE PART OIL TO 3 PARTS WATER	EFFECTIVE ALL YEAR ALL EXTERIOR TRIM	EXPORT ONLY	PILLSBURY G-6-GO
9985156 9985157	APPEARANCE MAX	APPLY TO ALL HORIZONTAL SURFACES	GM AND CHEVROLET ASSEMBLY PLANTS ONLY	DUPONT PRODUCTS VW 1356 (ELECTRIC STATIC SPRAY) VW 1351 (HAND SPRAY)

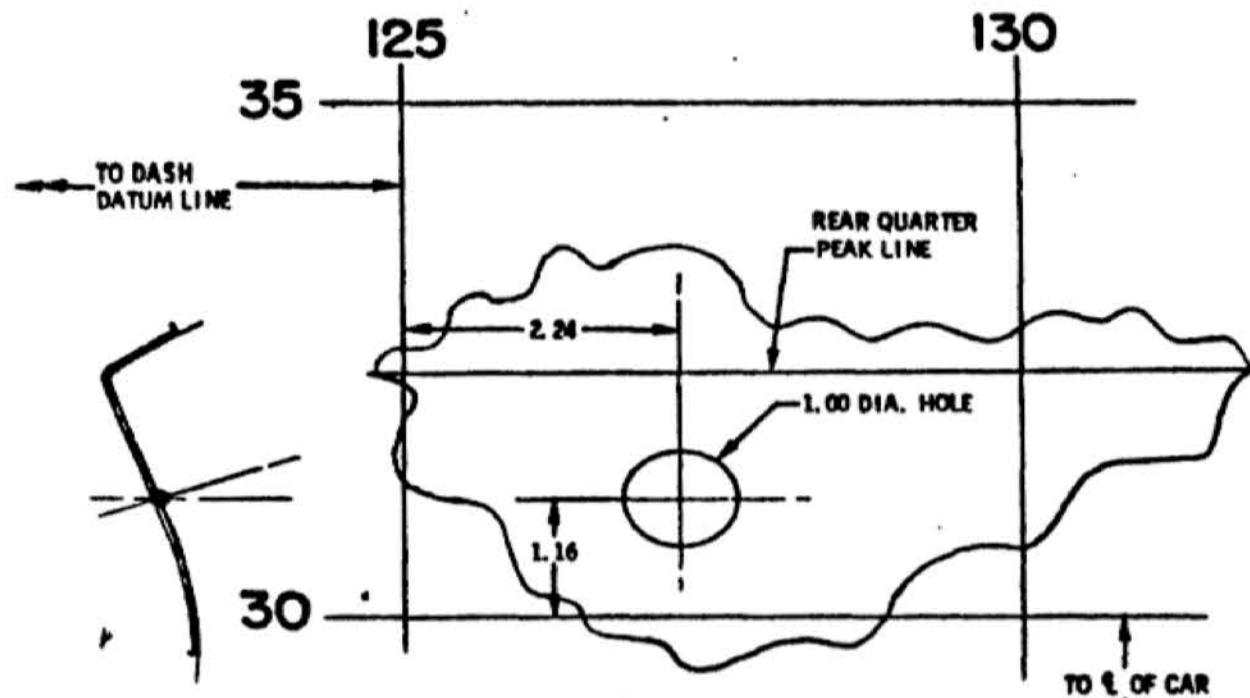
TITLE										CHART - CORROSION PROTECTION (SHIPPING)														
DATE					NOV. 20, 1967					FIRST USED					1969									
DR. BY					K. LOVELL					OLDSMOBILE PRODUCT					MANUAL SEC. PAGE									
CHECKED					J. Ames					INFORMATION MANUAL					O 135									
APPR.					3068 A 9985156 ADDED					REV.					SERIES									
DATE					SYM					REVISION					PART NO.									
DR. CK.					DATE					SYM					REVISION					DR. CK. APPR.				
															ABCE									
															402716									



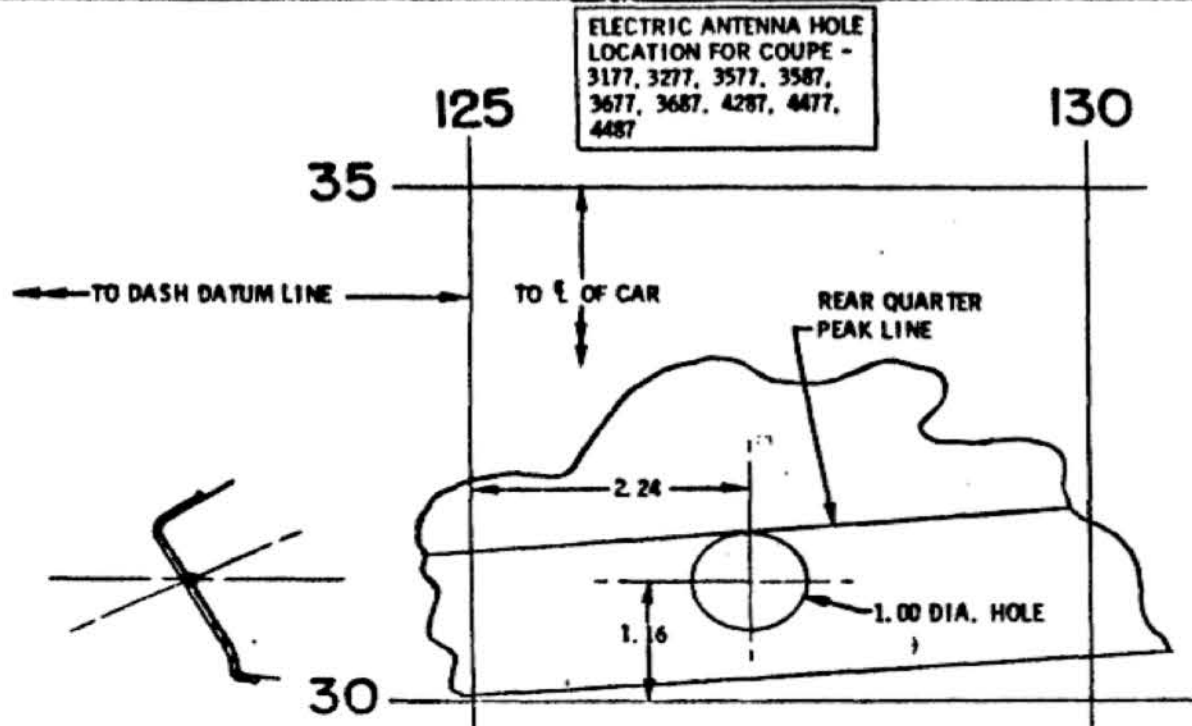
										TITLE		LAYOUT - DRILLING (DASH)			
										DATE		FIRST USED			
										MAR 12, 1969		1969			
										DR. BY		OLDSMOBILE PRODUCT			
										J. E. CASLER		INFORMATION MANUAL			
										CHECKED		MANUAL SEC. PAGE			
										J. B. ...		O 141			
										APPR.		SERIES			
										English		A			
										PART NO.		403662			
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.



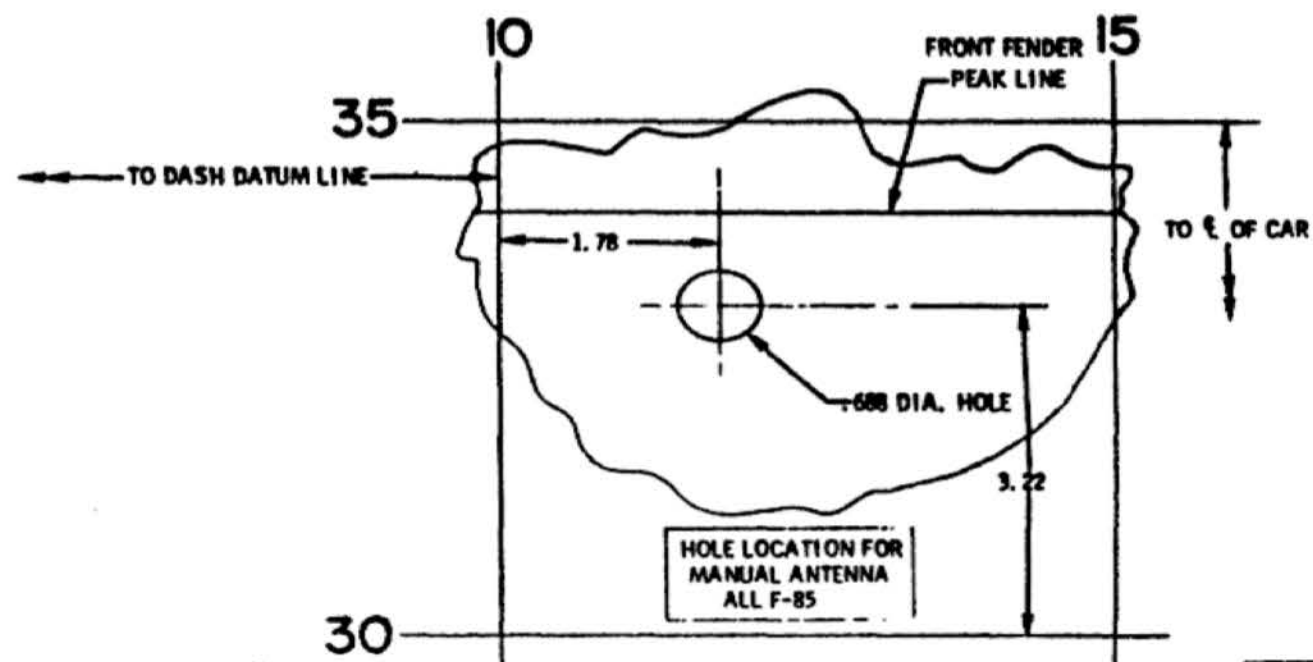
ELECTRIC ANTENNA HOLE LOCATION FOR SEDAN-
3539, 3569, 3639, 3669,
4239, 4269



ELECTRIC ANTENNA HOLE LOCATION FOR CONVERTIBLE-
3567, 3667, 4467



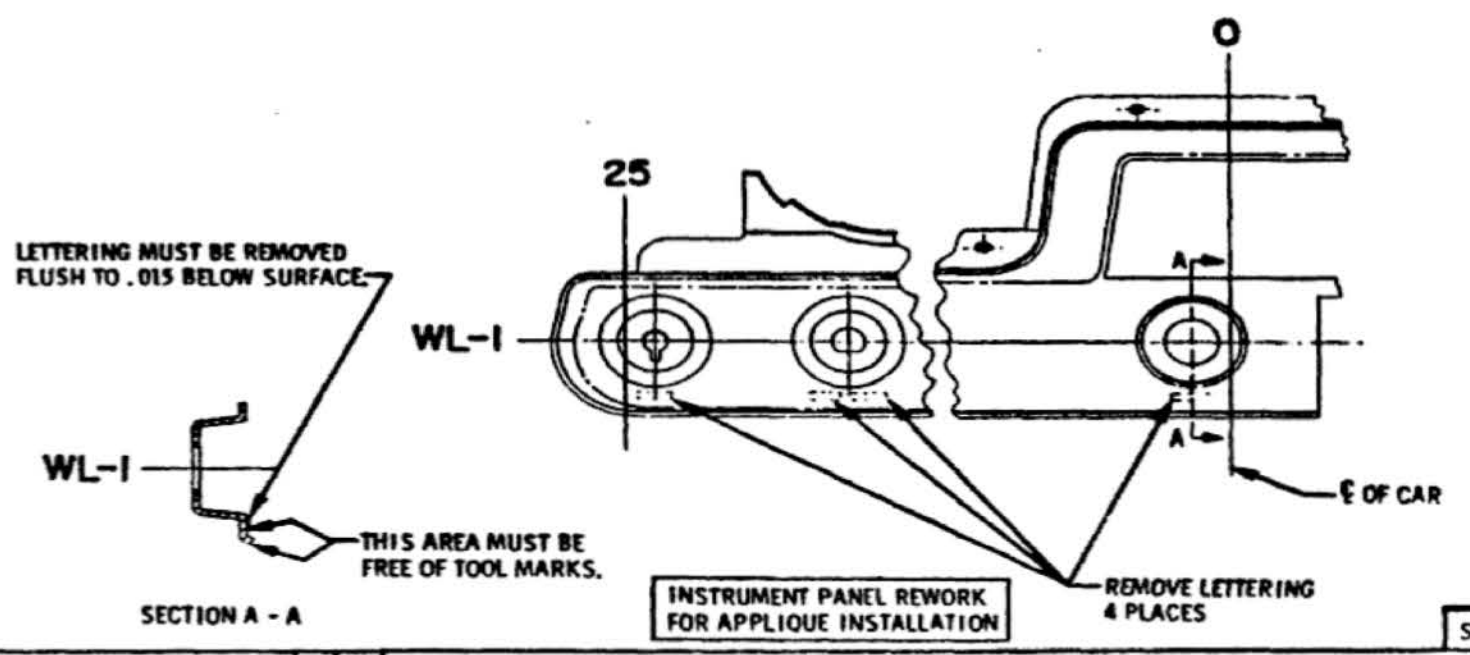
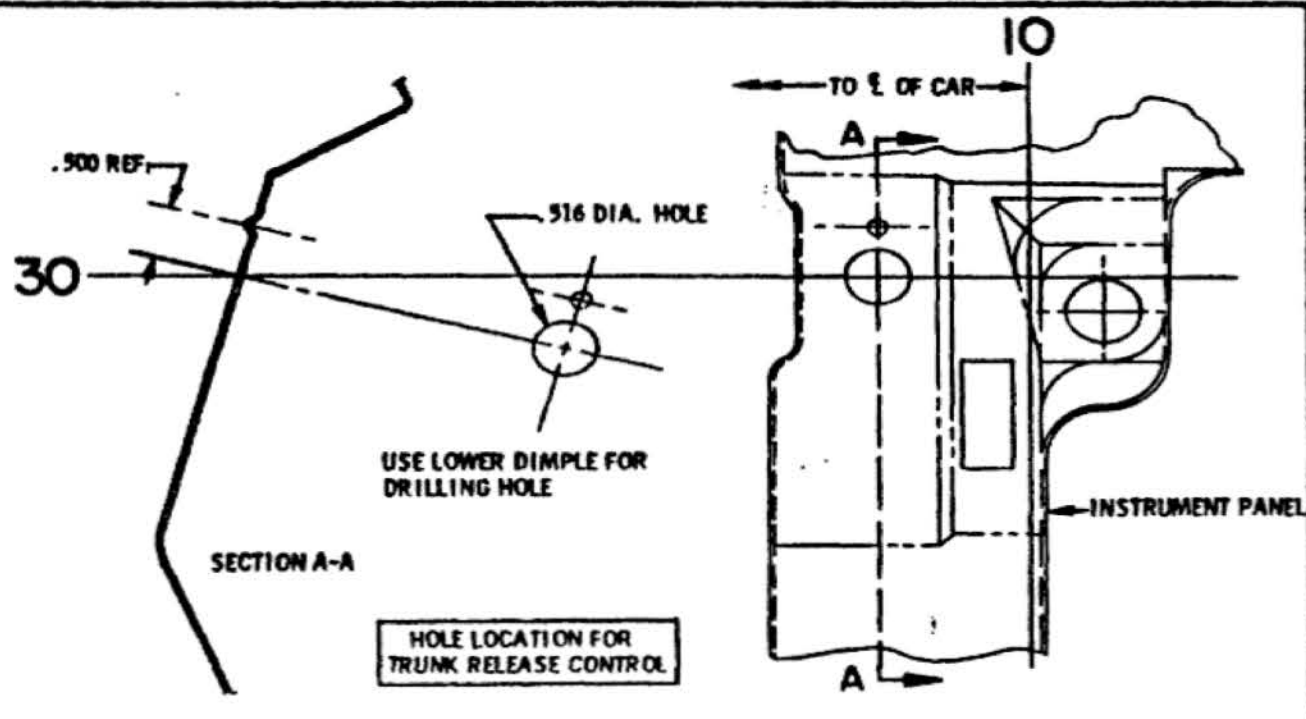
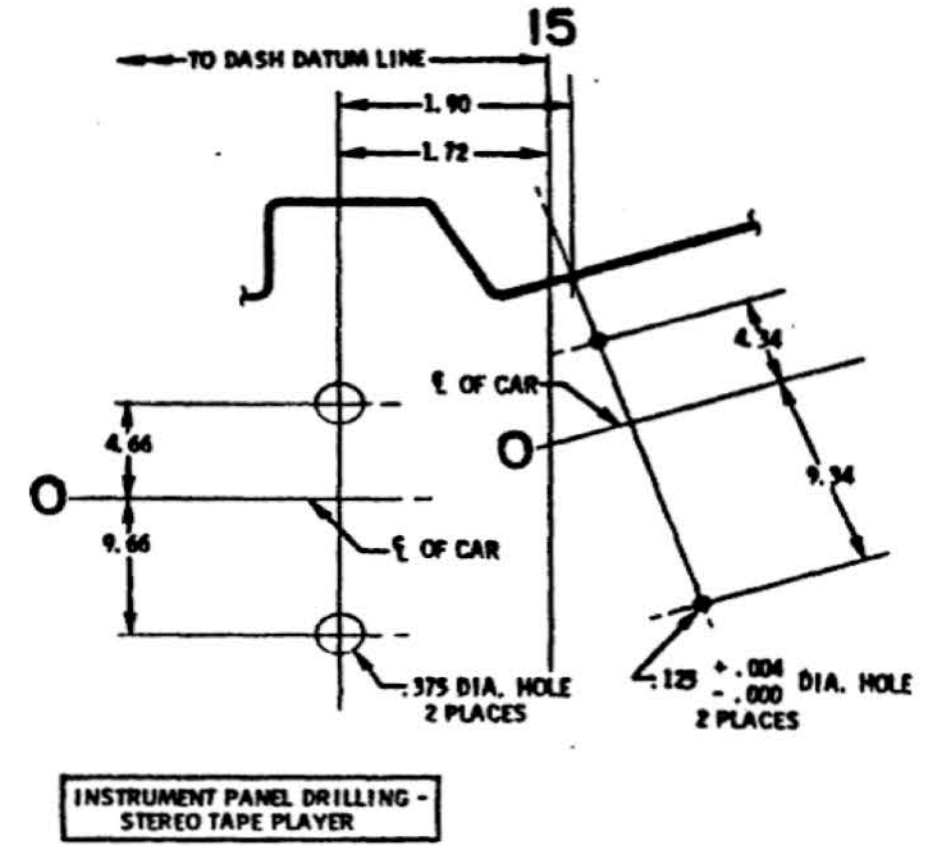
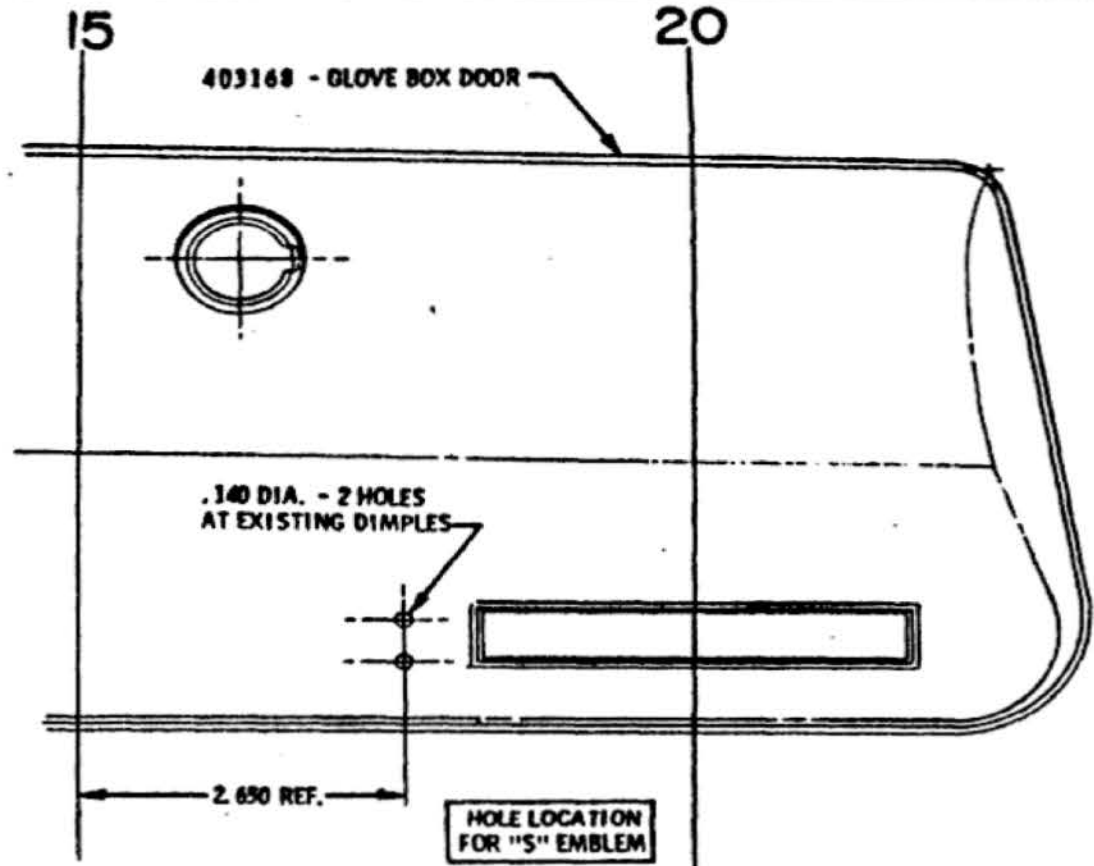
ELECTRIC ANTENNA HOLE LOCATION FOR COUPE -
3177, 3277, 3577, 3587,
3677, 3687, 4287, 4477,
4487



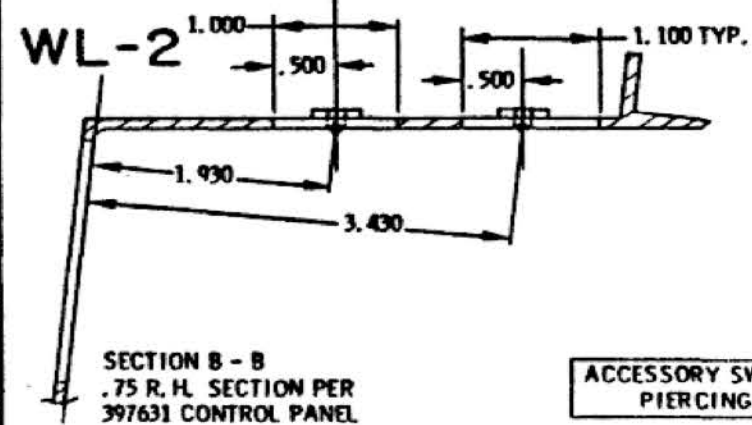
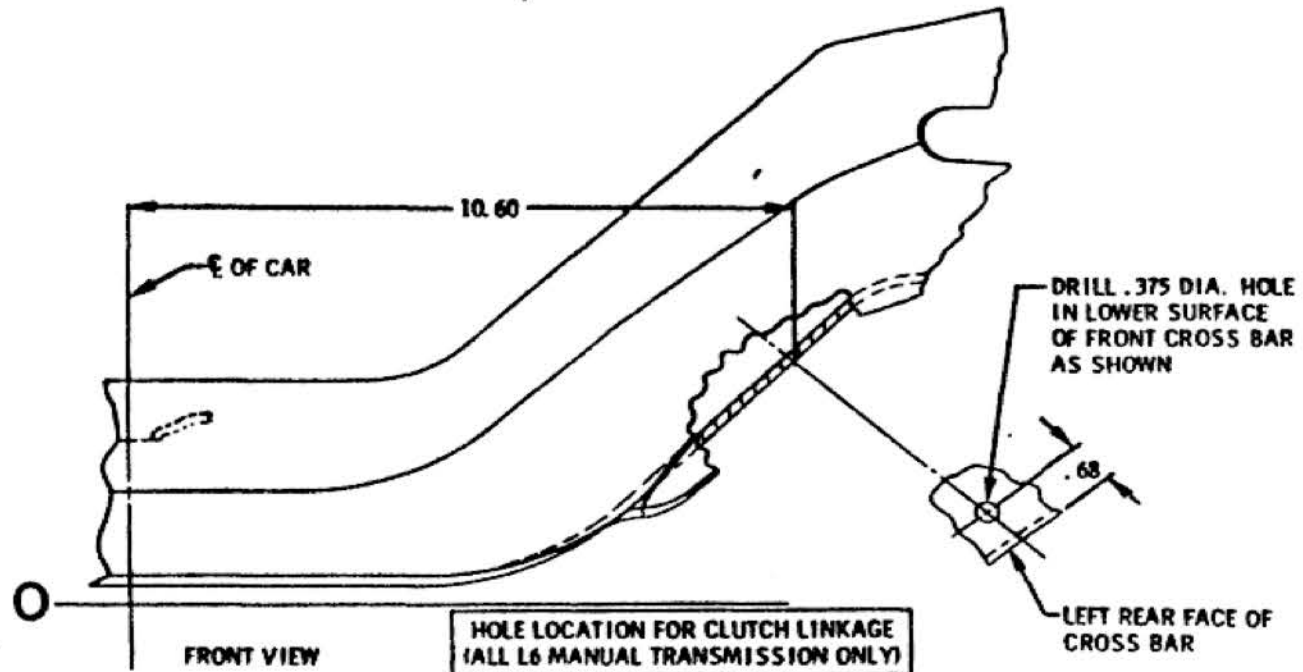
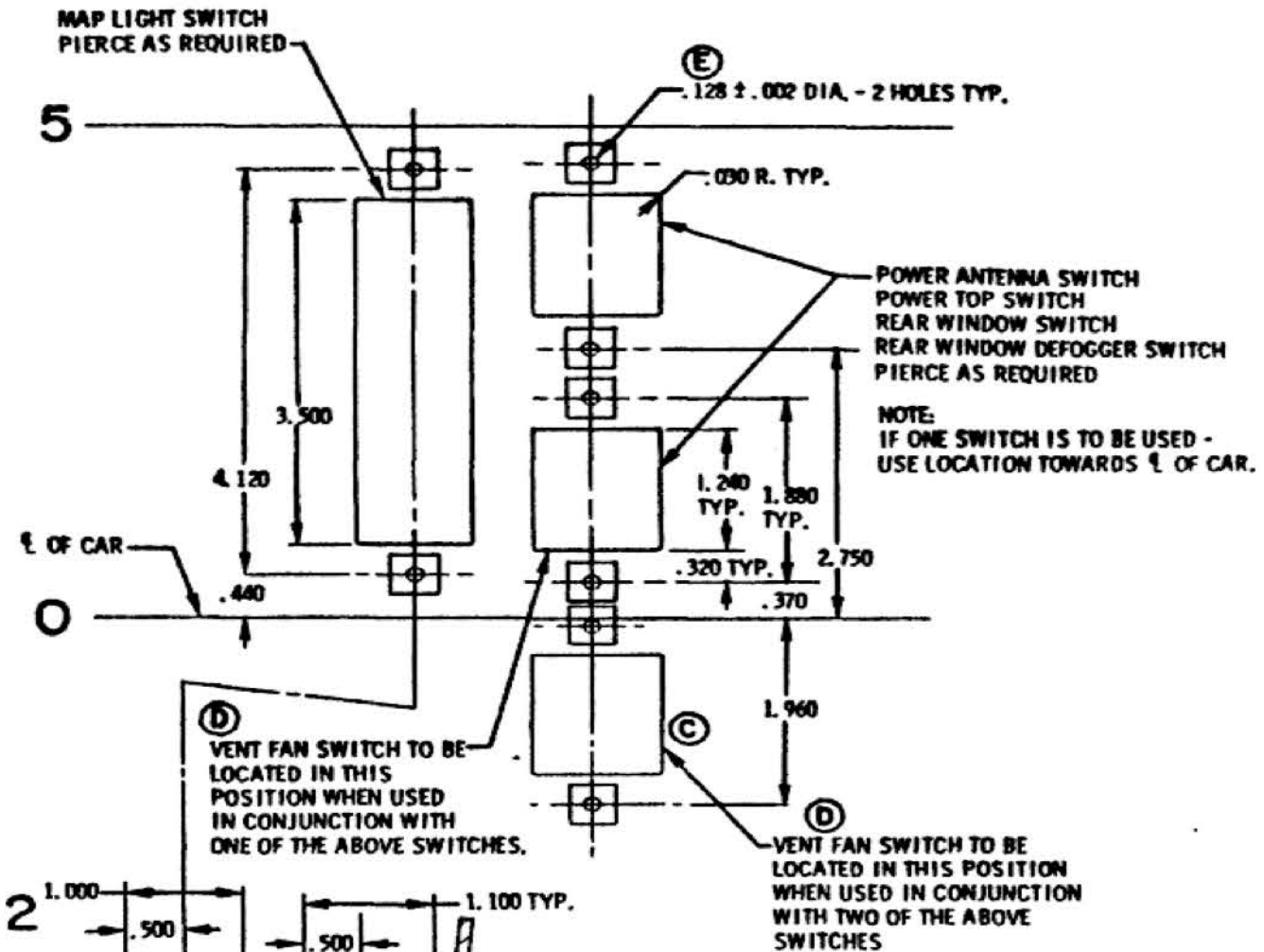
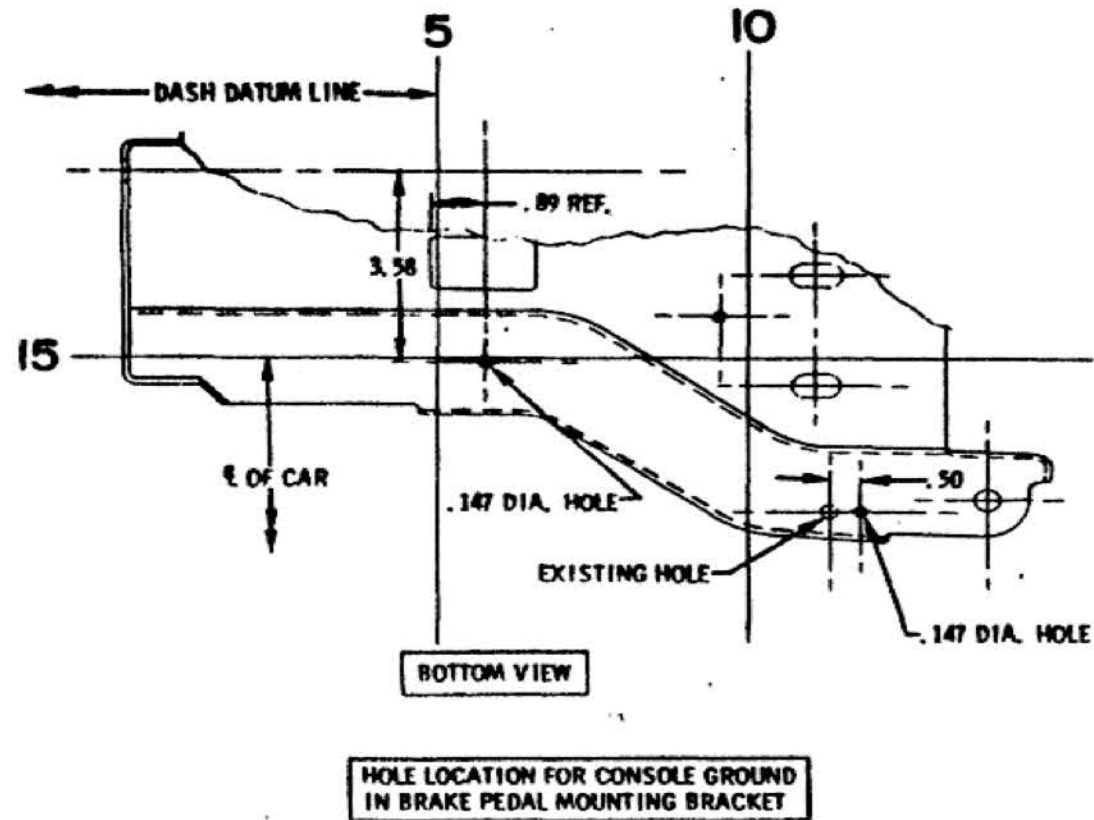
HOLE LOCATION FOR MANUAL ANTENNA
ALL F-85

										TITLE LAYOUT - DRILLING (MANUAL AND ELECTRIC ANTENNA)						
										DATE	MAR 9, 1968	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
										DR. BY	BILL SCHMIDT			INFORMATION MANUAL	0	142
										CHECKED	J. Hines					
										APPR.	English			SERIES	A	PART NO.
															403662	
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



										TITLE				LAYOUT - DRILLING (MISCELLANEOUS)							
										DATE MARCH 12, 1968				FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
										DR. BY K. LOVELL				1969		INFORMATION MANUAL		O		143	
										CHECKED [Signature]				SERIES		PART NO.					
										APPR. [Signature]				A		403662					
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK		



REVISION										TITLE											
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	LAYOUT - DRILLING (MISCELLANEOUS)										
										2568 E WPS 199 DR.		KL	JF	TITLE		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.	PAGE
										2568 D2 NOTE ADDED		KL	JF	DATE MARCH 6, 1968		1969		INFORMATION MANUAL		0	144
										2568 C PRELIM ADDED		KL	JF	DR. BY K LOVELL							
										6-868 B VIEW ADDED		P	JF	CHECKED J. Adams H							
										6-665 A VIEW REMOVED		RA	JF	APPR. [Signature]		REF.		SERIES		PART NO.	
												DR.	CK.	APPR. H. J. D. [Signature]				A		403662	

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

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

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

										TITLE		CHART - CARBURETOR PRIMING PROCEDURE							
										DATE		FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL NO.		PAGE	
										JAN. 27, 1968		1969		O		149			
										DR. BY		J. D. SMITH							
										CHECKED		J. Hines							
										APPR.				PART NO.		403395			
														ABCE					

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, DRIVE OR LOW.
3. MAKE SURE SHIFT LINKAGE IS FREE FROM BINDS.
4. MAKE SURE OIL LEVEL IS CORRECT.

IMPORTANT

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

CHECK PROCEDURE

1. 3-SPEED AMT - MAKE LIGHT THROTTLE START AND OBSERVE THE 1-2 UPSHIFT AT 15 - 20 AND THE 2-3 UPSHIFT AT 25 - 35 MPH. (THESE SHOULD OCCUR AT APPROXIMATELY THE SAME THROTTLE OPENING.)
2-SPEED AMT - MAKE LIGHT THROTTLE START AND OBSERVE UPSHIFT AT 20-30 MPH.
2. OPEN THROTTLE THRU DETENT AT 40 - 45 MPH AND OBSERVE FOR DOWNSHIFT FUNCTION.
3. BACK OFF ON THROTTLE AND OBSERVE UPSHIFT AT 50 - 60 MPH.
4. 3-SPEED AMT - COAST DOWN TO 50 MPH, SHIFT TO "SUPER" RANGE AND OBSERVE SHIFT - WHEN TRANSMISSION HAS SHIFTED COMPLETELY INTO SECOND GEAR, SHIFT TO "LOW" RANGE AND OBSERVE SHIFT.
2-SPEED AMT - COAST DOWN TO 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 AS FOLLOWS:
 - A. BRAKE CAR TO STOP.
 - B. PUT IN PARK BEFORE RELEASING BRAKE.
 - C. AFTER RELEASING BRAKE, PAWL SHOULD ENGAGE AND RELEASE FREELY WITHOUT RATCHETING.
7. CHECK FOR OIL LEAKS.

										TITLE		CHART - AUTOMATIC TRANSMISSION VEHICLE CHECK							
										DATE <i>JAN 19 1969</i>		YEAR USED		OLDSMOBILE PRODUCT		MANUAL SEC		PAGE	
										DR BY <i>DON MALRIN</i>		1969		INFORMATION MANUAL		0		150	
										CHECKED <i>L. P. ...</i>		REF		SENT		PART NO.		40712	
										APPR.		A-B-C-E							
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.				

INITIAL CHECK

1. MAKE SURE CLUTCH START SWITCH DOES NOT ALLOW ENGINE TO START UNTIL CLUTCH IS DISENGAGED.
2. MAKE SURE THAT SHIFT LINKAGE IS CORRECTLY ADJUSTED SO THAT NEUTRAL CROSS-OVER IS FREE, THAT IGNITION CAN BE LOCKED IN REVERSE, AND THAT IT CANNOT BE LOCKED IN 2ND GEAR (1ST GEAR ON 4 SMT).
3. MAKE SURE SHIFT LINKAGE IS FREE FROM BINDS.

IMPORTANT

1. DO NOT EXCEED 1/2 THROTTLE OPERATION.
2. DO NOT EXCEED 60 MPH.
3. DO NOT SHIFT TO REVERSE WITH ROLLS TURNING.
4. CHECK FOR GEAR NOISE LEVEL IN 3RD GEAR (4TH IN 4 SMT).
5. DO NOT ACCELERATE OR DECELERATE RAPIDLY WHILE MAKING CHECKS.

CHECK PROCEDURE

1. ACCELERATE IN 1ST GEAR AT LIGHT THROTTLE TO 15-20 MPH, AND SHIFT INTO 2ND GEAR.
2. ACCELERATE AT 1/2 THROTTLE TO 25-35 MPH IN 2ND GEAR, AND OBSERVE FOR CLUTCH SLIP AND TRANSMISSION SLIPPING OUT OF GEAR.
3. DECELERATE AT CLOSED THROTTLE JUST LONG ENOUGH TO OBSERVE FOR TRANSMISSION SLIPPING OUT OF GEAR.
4. DISENGAGE CLUTCH AND BRAKE TO A STOP.
5. CHECK FOR OIL LEAKS.

												TITLE CHART - SYNCHROMESH TRANSMISSION VEHICLE CHECK									
												DATE <u>SEPT 12, 1969</u>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
												DR. BY <u>BILL</u>		1969		INFORMATION MANUAL		O		151	
												CHECKED <u>John F. [unclear]</u>		SERIES		PART NO.					
												APPR. <u>[unclear]</u>		A-B		404598					
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

2. GENERAL, 001, 0000

FRONT SHOCK ABSORBERS				
SERIES	F40 EXPORT	(A) FE2	FG2	STD.
33177	RZ	--	UY	RW
33277	RZ	RZ	UY	ZH
33535	RZ	--	UY	RW
33539	RZ	--	UY	RW
33569	RZ	--	UY	RW
33567	RZ	--	UY	RW
33577	RZ	--	UY	RW
33587	RZ	--	UY	RW
33635	RZ	--	UY	ZH
33639	RZ	--	UY	ZH
33669	RZ	--	UY	ZH
33667	RZ	RZ	UY	ZH
33677	RZ	RZ	UY	ZH
33687	RZ	RZ	UY	ZH
34239	RZ	--	UY	ZH
34269	RZ	--	UY	ZH
34287	RZ	--	UY	ZH
34467	--	--	--	RZ
34477	--	--	--	RZ
34487	--	--	--	RZ
34855	RZ	--	UY	ZJ
34865	RZ	--	UY	ZJ

REAR SHOCK ABSORBERS						
SERIES	F40 EXPORT	G66		(A)		
		R. H.	L. H.	FE2	FG2	STD.
33177	FA	ZB	ZC	--	VT	VW
33277	FA	ZB	ZC	WE	VT	VW
33535	FA	ZB	ZC	--	VT	SB
33539	FA	ZB	ZC	--	VT	VW
33569	FA	ZB	ZC	--	VT	VW
33567	FA	ZB	ZC	--	VT	VW
33577	FA	ZB	ZC	--	VT	VW
33587	FA	ZB	ZC	--	VT	VW
33635	FA	ZB	ZC	--	VT	SB
33639	FA	ZB	ZC	--	VT	VW
33669	FA	ZB	ZC	--	VT	VW
33667	FA	ZB	ZC	WE	VT	VW
33677	FA	ZB	ZC	WE	VT	VW
33687	FA	ZB	ZC	WE	VT	VW
34239	FA	ZB	ZC	--	VT	VW
34269	FA	ZB	ZC	--	VT	VW
34287	FA	ZB	ZC	--	VT	VW
34467	--	ZB	ZC	--	--	WE
34477	--	ZB	ZC	--	--	WE
34487	--	ZB	ZC	--	--	WE
34855	MT	ZD	ZE	--	UW	ZL
34865	MT	ZD	ZE	--	UW	ZL

CODE	PART NUMBER	VALVING	
		REBOUND	COMPRESSION
FA	3186967	C2. 25 (8) N	K2-. 073
ZD	3197575	C3. 25 (2) M	C3
ZE	3197576	C3. 25 (2) M	C3
WE	3192931	C2. 75 (8) L	K2-. 073
MT	3192448	C2 (4) R	E1
RW	3192800	C6 (4) E	E2
ZJ	3192935	C3. 75 (2) K	H2
RZ	3192809	C2. 50 (9) R	H1. 90
SB	3192805	C2. 75 (2) G	D3. 25
ZL	3192937	C2. 25 (13) L	D2. 25-. 082
ZB	3197573	C3. 5 (2) F	P3. 75
ZC	3197574	C3. 5 (2) F	P3. 75
UW	3197649	C2 (11) G	C1. 5-73
UY	3197669	C2 (8) K	C1-60
VT	3197672	C1. 5 (17) H	B2-60
ZH	3192934	C5. 5 (20) F ^d	A2
VW	3192872	C3. 75 (12)	GK ^d 2. 25-. 082

NOTE:

G66 SHOCK ABSORBERS FOR 33100 THRU 34400 EXCEPT 34855, 65 BODY STYLES (ZB & ZC) ARE PART OF SUPERLIFT SHOCK PACKAGE 3196951 AS PURCHASED. G66 SHOCK ABSORBERS ARE AVAILABLE ON 34400 MODELS WITH M40 TRANSMISSION ONLY. IDENTIFICATION CODES WILL NOT BE ON THE SHOCK ABSORBERS.

G66 SHOCK ABSORBERS FOR 34855, 65 (ZD & ZE) ARE PART OF SUPERLIFT SHOCK PACKAGE 3196952 AS PURCHASED. IDENTIFICATION CODES WILL NOT BE ON THE SHOCK ABSORBERS.

MEANING OF CODES FOR VALVING:

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 11 ORIFICE PLATE - .161/6-. 073
 FIGURE 12 ORIFICE PLATE - .125/6-. 073
 FIGURE 13 ORIFICE PLATE - .093/6-. 073
 FIGURE 17 ORIFICE PLATE - .144/4-. 073
 FIGURE 20 ORIFICE PLATE - .144/12-. 073

TITLE CHART - SHOCK ABSORBER USAGE										
DATE JUNE 13, 1968					FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 0	PAGE 160
DR. BY BOB HOLT					CHECKED J. Ames		SERIES A		PART NO. 404262	
11/20/68 A2 COLUMN'S ADD'D					APPR. F. E. Sullivan					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.

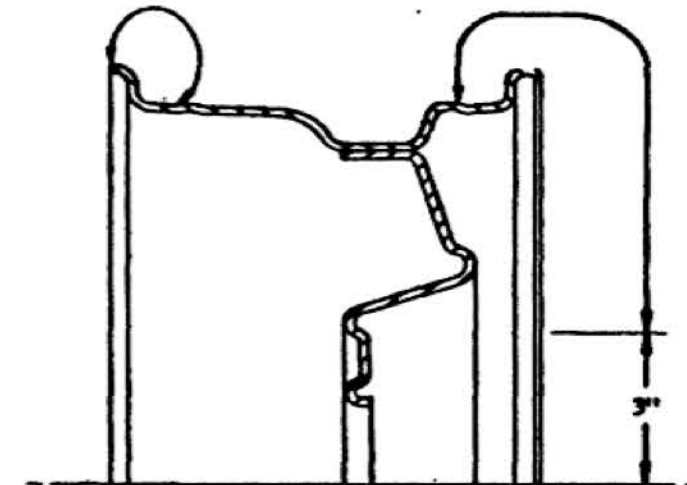
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

EXTERIOR PAINT CHART								
COLOR CODES & NAMES				SOURCE REFERENCES			WHEEL ENAMEL	
GM CODE	"WA" CODE	SALES CODE	SALES NAME	DU PONT	RINSHED-MASON	FOR BES	DU PONT	RINSHED-MASON
10	848	A	EBONY BLACK	926-96459	L61KD005	870-848	G780-76600	E29KD001
40	3313	Y	SAFFRON	926-96908	L67YD013	870-3313	G780-96908	E29YD015
50	3967	C	CAMEO WHITE	926-99642	L67WD007	870-3967	G780-93774	E29WD008
51	3855	E	TROPHY BLUE	927-99339	L68BD024	870-3855	G793-99339	E29BD003
52	3921	R	CRIMSON	926-99331	L67RD009	870-3921	G780-99331	E29RD001
53	3850	D	NASSAU BLUE	927-99338	L68BD023	870-3850	G793-99338	E29BD002
55	3851	K	TAHITIAN TURQUOISE	927-99337	L68BD022	870-3851	G793-99337	E29BD001
57	3886	M	GLADE GREEN	927-99410	L68GD019	870-3886	G793-99410	E29GD005
59	3863	H	MEADOW GREEN	927-99335	L68GD017	870-3863	G793-99335	E29GD004
61	3923	B	SABLE	927-99334	L68ND017	870-3923	G793-99334	E29ND007
63	3628	S	PALOMINO GOLD	927-98369	L68ND063	870-3628	G793-98369	E29ND047
65	3922	G	TOPAZ	927-99500	L68LD007	870-3922	G793-99333	E29LD004
67	3307	N	BURGUNDY MIST	927-97213	L68-RD008	870-3307	G793-97213	E29RD009
69	3927	P	PLATINUM	927-99480	L68AD007	870-3927	G793-98923	E29AD002
75	3925	J	AZTEC GOLD	927-99358	L68LD008	870-3925	G793-99358	E29LD005

NOTE:
UNDERSIDE OF FENDERS ARE TO
BE PAINTED PER PAINT
SPECIFICATION CHART #386230,
SECTION I, PAGE 1A.

34200 AND 34800 SERIES MODELS ARE
TO BE PAINTED ARGENT, CODE 302, BELOW
BODY SIDE AND FENDER MOLDINGS.

PAINT STRIPE COLORS				
SALES CODE	"WSA" CODE	COLOR	DU PONT	RINSHED-MASON
A	848	BLACK	898-98685	L55KD006
C	2661	WHITE	898-98686	L55WD023
E	3919	BLUE	898-99618	L55BD006
G	3918	GOLD	898-99617	L55LD005
R	3894	RED	926-F-49622	L55RD003



NOTE: WHEELS ARE TO BE PAINTED EBONY BLACK
(R-M E29KD001 OR DU PONT 780-76600) WITH
WHEELS DISCS.

WHEELS ARE PAINTED LOWER BODY COLOR
FOR CARS EQUIPPED WITH HUB CAPS.

PAINT TIRE MOUNTING BEADS AND FRONT
SURFACES OF WHEEL TO WITHIN A THREE
INCH RADIUS OF WHEEL CENTERLINE.
LIGHT FOGGING PERMITTED ON BALANCE
OF WHEEL.

BRAKE DRUM OUTER SURFACE IS TO BE
PAINTED CODE #384 WHEN P05, N66 OR
P37 WHEELS ARE SPECIFIED AS SHOWN
ON DRAWING #400698

SHEET 1 OF 8

31169 G	NOTE REVISED	62468 D2	LINE REVISED	RM J	TITLE	CHART - PAINT & TRIM SPECIFICATIONS	MANUAL SEC.	PAGE
21169 F	P37 ADDED	4514 5224 B	N66 WHEEL ADDED	RM J	DATE	APRIL 13, 1968	180	
22468 L	NOTE ADD'D FOR	5968 A2	DUPOINT PAINT	RM J	DR. BY	SALE DEPT		
	34200-34800 SERIES		NOS. ADDED	RM J	CHECKED	J. FITZ		
				RM J	APPR.	C. MOON		
					REF.			
					SERIES	A		
					PART NO.	403910		

SERIES & STYLES	TRIM COLORS & NUMBERS					
	BLACK	GREEN	BLUE	GOLD	RED	ANTIQUE PARCHMENT
F - EIGHTY FIVE						
33177-33277 CLUB COUPE (BENCH)	900V	902V	903C	904W	/	907V
CUTLASS:						
33669-33669 TOWN SEDAN (BENCH)	910V	912V	922C	924C	/	/
33529-33629 HOLIDAY SEDAN (BENCH)	910V	912V	922C	924C	/	917V
33577-33677 "S" CLUB COUPE (BUCKET) (BENCH)	930V 940V	942V	933V 333C	934W 334C	935V	937V 947V
33687-33687 "S" HOLIDAY COUPE (BUCKET) (BENCH)	930V 940V	942V	933V 333C	934W 334C	935V	937V 947V
33567-33667 "S" CONVERTIBLE (BUCKET) (BENCH)	930V 940V	942V	933V 943V	934W 944W	935V	937V 947V
CUTLASS SUPREME:						
34269 TOWN SEDAN (BENCH)	950C	952V	953C	954C	/	/
34229 HOLIDAY SEDAN (NOTCH-BENCH)	960C	962V	963C	964C	/	967V
34287 HOLIDAY COUPE (BUCKET) (NOTCH-BENCH)	970V 980V	982V	973V 983C	974W 984C	975V	977V 987V
STATION WAGONS:						
33525, 36 - 33625, 36 CUTLASS, 2 SEAT (BENCH)	910V	912V	913V	914W	915V	/
34825, 56 VISTA-CRUISER, 2 SEAT (BENCH)	990V	992V	993V	994W	995V	/
34865, 66 VISTA-CRUISER, 3 SEAT (BENCH)	990V	992V	993V	994W	995V	/

- NOTES:
- "C" AFTER TRIM NO. DENOTES CLOTH & VINYL TRIM.
 - "V" AFTER TRIM NO. DENOTES ALL-VINYL TRIM.
 - ALL BUCKET SEATS ARE STRATO BUCKETS.
 - MODELS MARKED (BENCH) HAVE CONVENTIONAL BENCH SEATS.
 - MODELS MARKED (NOTCH-BENCH) HAVE NOTCH-BACK BENCH FOLDING CENTER ARMREST.

TITLE		CHART - PAINT & TRIM SPECIFICATIONS	
DATE	APR 16, 1968	FIRST USED	1969
DR. BY	J. E. CASLER	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. PAGE
CHECKED	J. Ames		0 182
APPR.	J. Ames	SERIES	A
		PART NO.	403910

2468 RZ 917V1 957V REMOVED

RECOMMENDED COLOR USAGE

SINGLE TONE CARS:

CODE	EXTERIOR COLORS	INTERIOR TRIM COLORS					
		BLACK	GREEN	BLUE	GOLD	RED	ANTIQUE PARCHMENT
10 A	EBONY BLACK	X	X	X	X	X	X
40 Y	SAFFRON	X			X		X
50 C	CAMEO WHITE	X	X	X	X	X	X
51 E	TROPHY BLUE	X		X			X
52 R	CRIMSON	X				X	X
53 D	MASSAU BLUE	X		X			X
55 K	TAHITIAN TURQUOISE	X					X
52 M	GLADE GREEN	X	X				X
59 H	MEADOW GREEN	X	X				X
61 B	SABLE	X			X		X
63 S	PALOMINO GOLD	X			X		X
65 G	TOPAZ	X			X		X
67 N	BURGUNDY MIST	X				X	X
69 P	PLATINUM	X		X		X	X
75 J	AZTEC GOLD	X			X		X

CONVERTIBLE TOP USAGE:

CODE	COLOR	RECOMMENDED USAGE
A 1	WHITE	RECOMMENDED WITH ALL COLORS.
B 2	BLACK	RECOMMENDED WITH ALL COLORS.
C 3	BLUE	RECOMMENDED WITH A, C, D, E, P ONLY.
P 6	GOLD	RECOMMENDED WITH A, B, C, G, J, S, Y ONLY.

VINYL ROOF COVER USAGE:

CODE	COLOR	RECOMMENDED USAGE
B 2	BLACK	RECOMMENDED WITH ALL COLORS.
C 3	BLUE	RECOMMENDED WITH A, C, D, E, P ONLY.
E 5	PARCHMENT	RECOMMENDED WITH ALL COLORS.
F 8	SABLE	RECOMMENDED WITH A, B, C, G, J, S, Y ONLY.
G 9	GREEN	RECOMMENDED WITH A, C, H, M ONLY.

TITLE		CHART - PAINT & TRIM SPECIFICATIONS		MANUAL SEC.	PAGE
DATE	APRIL 18, 1968	FIRST USED	1969	O	183
DR. BY	BILL SCHMIDT	REF.			
CHECKED	J. Ames	SERIES	A	PART NO.	403910
APPR.					

REV.	DATE	DESCRIPTION	BY
22468	DE	OLDS SALES CODES FOR TOP MATL. ADDED	AM/JF
46468	C2	COLOR REVISED	BA/JF
5968	B	COLUMN REMOVED	BA/JF
5968	A	COLUMN REVISED	BA/JF

RECOMMENDED COLOR USAGE FOR PAINT STRIPES

		PAINT STRIPE COLOR & CODE				
		A - BLACK	C - WHITE	E - BLUE	G - GOLD	R - RED
CODE	EXTERIOR COLORS					
10 A	EBONY BLACK		X	X	X	X
40 Y	SAFFRON	X	X		X	
50 C	CAMEO WHITE	X		X	X	X
51 E	TROPHY BLUE	X	X	X		
52 R	CRIMSON	X	X			X
53 D	NASSAU BLUE	X	X	X		
55 K	TAHITIAN TURQUOISE	X	X			
57 M	GLADE GREEN	X	X			
59 H	MEADOW GREEN	X	X			
61 B	SABLE	X	X		X	
63 S	PALOMINO GOLD	X	X		X	
65 G	TOPAZ	X	X		X	
67 N	BURGUNDY MIST	X	X			X
69 P	PLATINUM	X	X	X		X
75 J	AZTEC GOLD	X	X		X	

PAINT STRIPES ARE STANDARD EQUIPMENT ON 4-4-2.

PAINT STRIPES ARE OPTIONAL (Y-70) ON CUTLASS "S".

NOTE:

IT IS RECOMMENDED THAT PAINT STRIPES MATCH TOP COLOR OR INTERIOR TRIM COLOR WHENEVER POSSIBLE.

										TITLE		CHART - PAINT AND TRIM SPECIFICATIONS							
										DATE <u>APRIL 17, 1968</u>		FIRST USED		1969		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE	
										DR. BY <u>BILL SCHMIDT</u>						0		185	
										CHECKED <u>J. Ames</u>									
										APPR. <u>[Signature]</u>		SERIES		A		PART NO.		103010	
DATE	BY	REVISION	DR	CK	DATE	BY	REVISION	DR	CK	DATE	BY	REVISION	DR	CK	DATE	BY	REVISION	DR	CK

MISCELLANEOUS TRIM PARTS

SHEET 7

SEAT / SHOULDER BELTS: (STANDARD TYPE) - STD. EQUIPMENT ALL MODELS. (A)

WEBBING COLOR	RETRACTOR COLOR	BUCKLE COLOR	TRIM COLOR USAGE (SALES NAMES)
BLACK	BLACK	BLACK	BLACK, RED, ANTIQUE PARCHMENT
DK. GREEN	DK. GREEN	DK. GREEN	GREEN
DK. BLUE	DK. BLUE	DK. BLUE	BLUE
MED. GOLD	DK. GOLD	MED. GOLD	GOLD

SEAT / SHOULDER BELTS: (DELUXE TYPE) - STD. EQUIPMENT ALL MODELS

WEBBING COLOR	RETRACTOR COLOR	CHROME BUCKLE	TRIM COLOR USAGE (SALES NAMES)
BLACK	BLACK	SATIN/BRITE	BLACK
DK. GREEN	DK. GREEN	SATIN/BRITE	GREEN
DK. BLUE	DK. BLUE	SATIN/BRITE	BLUE
MED. GOLD	DK. GOLD	SATIN/BRITE	GOLD
DK. RED	DK. RED	SATIN/BRITE	RED
SANDALWOOD	BLACK	SATIN/BRITE	ANTIQUÉ PARCHMENT

* INCLUDES MINI BUCKLE WITH LOCKING RETRACTOR FOR OUTBOARD FRONT SEAT POSITIONS.

TRUNK TRIM: (STANDARD EQUIPMENT)

TRUNK LINING	TRUNK (K. B.) BOARD	USAGE
TURQ./BLACK NON-WOVEN ON FOAM (I-T-1769)	TURQ./BLACK RANDOM PRINT (967-T-4269)	ALL MODELS

SPARE TIRE COVERS: (STANDARD EQUIPMENT)

DESCRIPTION	COLOR	USAGE
PRINTED K. B. BOARD (RANDOM PRINT)	TURQ./BLACK (967-T-4269)	34200 33600 WITH W29

AUXILIARY FLOOR MATS: (OPTIONAL) - OLDS IBM CODE 4

COLOR	TRIM COMBINATION USAGE
BLACK	900, 907, 910, 917, 930, 937, 940, 947, 950, 960, 967, 970, 977, 980, 987, 990
DK. GREEN	902, 912, 942, 952, 962, 982, 992
DK. BLUE	333, 903, 923, 933, 943, 953, 963, 973, 983, 993
DK. GOLD	334, 904, 924, 934, 944, 954, 964, 974, 984, 994
DK. RED	915, 935, 975, 995

CONSOLES: (OPTIONAL ON BUCKET SEAT TRIMS)

TRIM COLOR	PAINTED BODY	TRIM COMBINATION NUMBERS
BLACK	BLACK W30A-848	930, 970
BLUE	MED. BLUE MET. W30A-3850	933, 973
GOLD	MED. GOLD W30A-3840	934, 974
RED	MED. RED W30A-3738	935, 975
ANTIQUÉ PARCHMENT	SANDALWOOD W30A-3870	937, 977

TITLE CHART - PAINT & TRIM SPECIFICATIONS

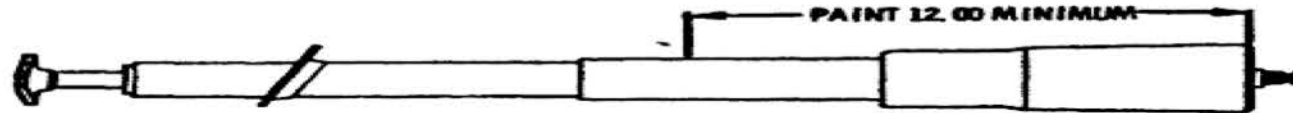
DATE: APRIL 17, 1968	FIRST USED: 1969	MANUAL SEC. PAGE: 0	186
DR. BY: C. GORDON	CHECKED: J. HILLES	REVISION	PART NO. 403910
REVISION	DATE	BY	DESCRIPTION
1968 B			957 REMOVED
1969 A			SCAT BELT CHART REVISOR

OLDSMOBILE DIVISION
GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

MISCELLANEOUS PARTS REQUIREMENTS

THE PARTS LISTED IN COLUMNS BELOW ARE REQUIRED IN THE COLORS INDICATED.
 — REFER TO SHEET NO. 3 FOR SPECIFIC MODEL TRIM COMBINATION NUMBERS —

COLUMN 1	COLUMN 2	COLUMN 3	
TRIM COLORS	UPPER INSTRUMENT PANEL (WOA) - OLDS IBM CODE 1 SAFETY PAD (MOLDED VINYL TO MATCH WOA) - OLDS IBM CODE 1 INSTRUMENT PANEL CONTROL PANEL (W30A) - OLDS IBM CODE 8 GLOVE BOX DOOR (W30A) - OLDS IBM CODE 8 RADIO HOLE COVER (W30A) - OLDS IBM CODE 8 ASH TRAY DOOR (W30A) - OLDS IBM CODE 8 HEATER HOLE COVER (W30A) - OLDS IBM CODE 8 LOWER INSTRUMENT PANEL (W30A) - OLDS IBM CODE 2 COVER - STEERING COLUMN (W30A) - OLDS IBM CODE 2 STEREO CASE ASSY (WOA) STEREO CASE PAD (VINYL BASE PAINT TO MATCH WOA) PACKAGE SHELF (WOA) DEFOGGER GRILLE (WOA) WINDSHIELD PILLAR PADS ★ (MOLDED VINYL) ★ FOR 33567-33667 ONLY. (SEE COLUMN 3 FOR OTHER MODELS.)	STEERING COLUMN (W30A) - OLDS IBM CODE 3 JACKET-STEERING COLUMN (W30A) - OLDS IBM CODE 3 TURN SIGNAL HOUSING (W30A) - OLDS IBM CODE 3 STANDARD STEERING WHEEL (PLASTIC) - OLDS IBM CODE 3 DELUXE STEERING WHEEL (PLASTIC) - OLDS IBM CODE 3	WINDOW FRAMES (W30A) CENTER PILLARS (W30A) STATION WAGON REAR SPEAKER GRILLE (W30DE) VISTA-CRUISER ROOF GARNISH (W30DE) WINDSHIELD PILLAR PADS ★ ★ FOR ALL MODELS EXCEPT 33567-33667. (SEE COLUMN 1 FOR CONVERTIBLES.)
BLACK	BLACK W-848	BLACK W-848	
GREEN	DK. GREEN MET. W-3873	DK. GREEN W-3866	
BLUE	DK. BLUE MET. W-3855	DK. BLUE W-3856	
GOLD	DK. GOLD W-3841	DK. GOLD W-3841	
RED	DK. RED W-3458	DK. RED W-3458	
ANTIQUE PARCHMENT	BLACK W-848	SANDALWOOD W-3870	



(D) INSTRUMENT PANEL APPLIQUES:
 VINYL CLAD ALUMINUM, "CARPATHIAN ELM BURL" (DI NOC 7-378-2)
 STANDARD EQUIPMENT ON CUTLASS SUPREME, 4-4-2 AND
 VISTA-CRUISER MODELS. OPTIONAL ON ALL OTHER MODELS.

SHEET 6		MANUAL SEC. PAGE		0 187		PART NO.		403910	
ALUMINUM PRODUCT INFORMATION MANUAL		1969		SERIES		A			
TITLE		DATE		BY		CHECKED		DATE	
CHART - PAINT & TRIM SPECIFICATIONS		APRIL 17, 1968		K. LOVELL		J. ARMSTRONG		APR 17, 1968	
REV.	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE
1		WAS (WOA)							
2		CODE 992 AUDED							
3		STEERING COLUMN							
4		LOCK MEWS ADDED							
5		LOCK MEWS REMOVED							

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 AT ASSEMBLY

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 TWO (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. USE ONLY 9985006 REFRIGERATION OIL.
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 MULTILATED THROUGH CARELESSNESS, OR DELIBERATELY BENT TO FACILITATE ANOTHER OPERATION.
9. FLEXIBLE HOSES ARE TO BE ROUTED AND FITTINGS ARE TO BE TIGHTENED SO THAT HOSES ASSUME NATURAL CURVES, FREE OF TWIST OR STRAIN.
10. COMPLETED SYSTEMS ARE TO BE CHECKED FOR PIPES GROUNDING OUT ON SHEET METAL COMPONENTS. ANY DIRECT CONTACT OF PIPES AND SHEET METAL PARTS IS TO BE ELIMINATED.

"C" EVACUATION AND CHARGE

1. AIR CONDITIONING SYSTEM MUST BE EVACUATED TO A MINIMUM OF 25 MM HG ABSOLUTE SYSTEM PRESSURE (A). AFTER A 15 SECOND HOLD TIME (B), THE SYSTEM PRESSURE MUST NOT EXCEED 28 MM HG ABSOLUTE PRESSURE.
 - (A) SYSTEM PRESSURE - THE LEVEL OF EVACUATION OF THE VEHICLE'S A/C SYSTEM ONCE THE VACUUM SOURCE HAS BEEN REMOVED.
 - (B) HOLD TIME - ELAPSED TIME WHICH OCCURS BETWEEN VACUUM DISCONNECT AND CHARGE CONNECT.
2. FOR THOSE PLANTS WHICH HAVE A LONGER THAN 15 SECOND HOLD TIME, THE SYSTEM PRESSURE MAY BE ALLOWED TO RISE TO THE VALUES SHOWN BELOW IN TABLE #1.

TABLE #1

ELAPSED TIME BETWEEN EVACUATION AND CHARGE	ACCEPTABLE EVACUATION LEVEL (MM HG) PER EVACUATION AND CHARGE SPECIFICATION	P. C. U. SET POINTS	
		ACCEPT	REJECT
15 - 30 SECONDS	28 MM HG	25 MM HG	30 MM HG
31 - 60 SECONDS	30 MM HG	27 MM HG	32 MM HG
61 - 90 SECONDS	35 MM HG	32 MM HG	37 MM HG
91 SECONDS AND OVER	40 MM HG	37 MM HG	42 MM HG

(A) REFRIGERANT CHARGE: 4.0[±] F-12 ALL

"D" LEAK TESTING

AFTER SYSTEM HAS RUN FOR AT LEAST 60 SECONDS, CHECK HIGH SIDE COMPONENTS FOR LEAKS USING A ONE POUND IN 40 YEARS ELECTRONIC LEAK DETECTOR. CHECK LOW SIDE COMPONENTS IMMEDIATELY AFTER SHUT DOWN OF ENGINE AND COMPRESSOR.

NOTE: A LEAK OF ONE POUND IN 40 YEARS MUST BE REPAIRED (EXCEPT FOR COMPRESSOR FRONT SEAL). LEAKAGE OF COMPRESSOR FRONT SEAL MUST NOT EXCEED ONE POUND IN 8 YEARS.

TITLE CHART - AIR CONDITIONING PROCEDURE									
DATE	1969 B 9985006-OIL ADDED				DR. BY	GALE GARY			
DATE	32668 A NOTE REVISED				CHECKED	L. H. HARRIS			
DATE					APPR.	K. H. HARRIS			
DATE	SYM	REVISION	DR.	CL.	DATE	SYM	REVISION	DR.	CL.
					FIRST USED	1969		OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. PAGE
					REF.			0	200
					SERIES	ABCE		PART NO.	402966

TYPICAL TEST DATA FOR R49 "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	36.0	165
	70	28.5		36.5	165
	80	28.5		41.0	168
	90	28.5		42.5	215
	100	28.5		47.0	265
30	60	28.5	2000	37.0	166
	70	28.5		39.0	167
	80	28.5		41.5	195
	90	28.5		46.0	225
	100	28.5		55.0	256
40	60	28.5	2000	46.0	317
	70	28.5		48.0	148
	80	28.5		42.0	170
	90	28.5		46.0	201
	100	28.5		67.0	229
50	60	28.5	2000	67.0	268
	70	28.5		72.0	288
	80	28.5		72.0	335
	90	28.5		71.0	150
	100	28.5		71.0	175
60	60	28.5	2000	71.0	208
	70	28.5		71.0	213
	80	28.5		71.0	240
	90	28.5		71.0	283
	100	28.5		71.0	355
70	60	28.5	2000	71.0	158
	70	28.5		71.0	182
	80	28.5		71.0	219
	90	28.5		71.0	265
	100	28.5		71.0	308
80	60	28.5	2000	71.0	175
	70	28.5		71.0	192
	80	28.5		71.0	225
	90	28.5		71.0	251
	100	28.5		71.0	320
90	60	28.5	2000	71.0	183
	70	28.5		71.0	199
	80	28.5		71.0	231
	90	28.5		71.0	257
	100	28.5		71.0	330

(A)

FOR AIR CONDITIONING PROCEDURE, SEE CHART 402966 SHEETS 1 & 2

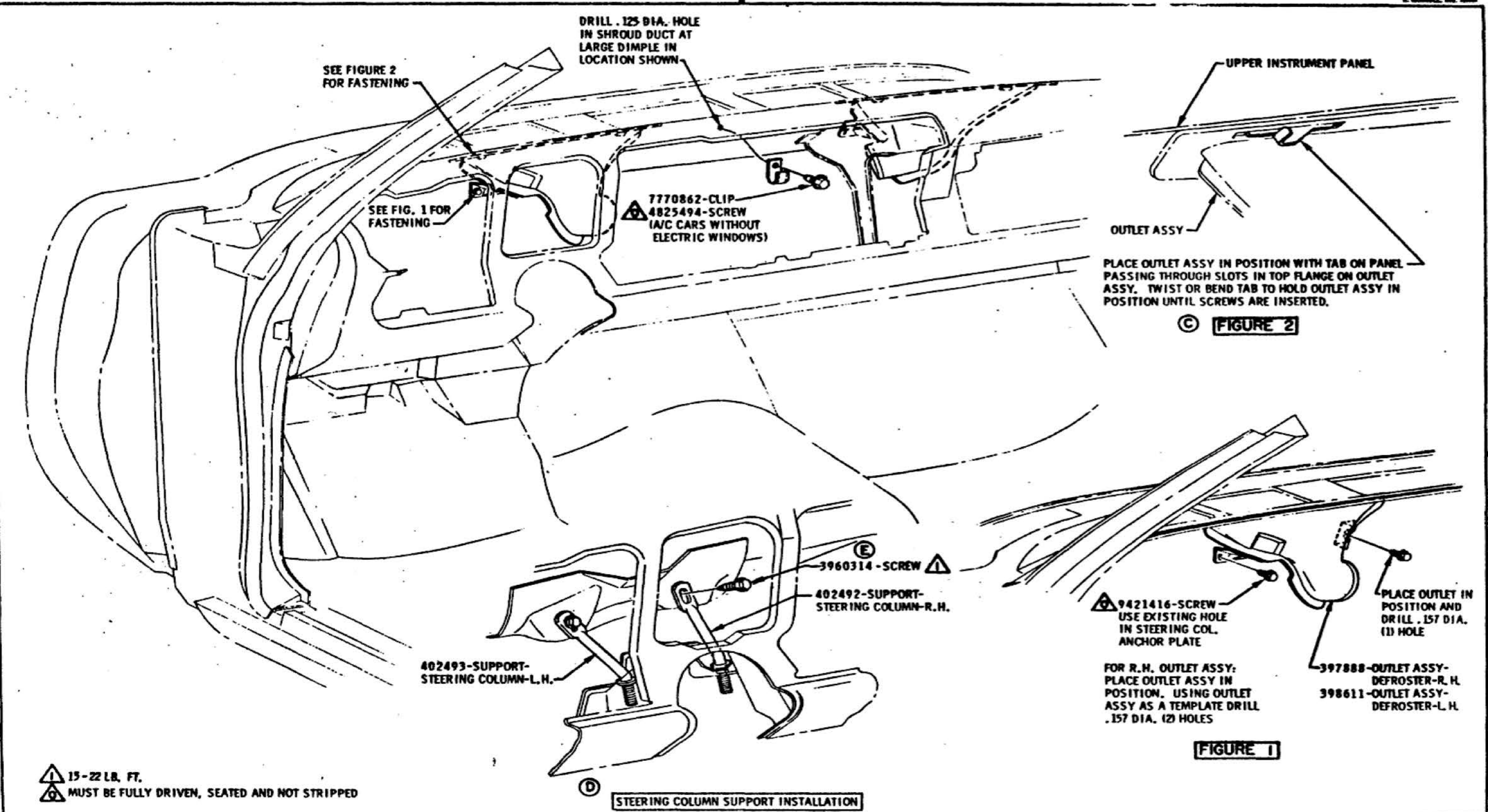
TITLE										AIR CONDITIONING TEST DATA									
DATE JAN 13 1968					FIRST USED 1969					OLDSMOBILE PRODUCT INFORMATION MANUAL					MANUAL SEC. PAGE				
DR. BY GILL SCHMIDT					CHECKED J. Hines					SERIES A					PART NO. 403232				
REVISION										REVISION									
DR.	CK.	DATE	SYN	REVISION	DR.	CK.	DATE	SYN	REVISION	DR.	CK.	DATE	SYN	REVISION	DR.	CK.	DATE	SYN	REVISION



SECTION 1-1 INSIDE OF CAR

- 110 MISCELLANEOUS ITEMS AND THROTTLE CONTROL**
- 120 HEATER AND RELATED COMPONENTS**
- 210 AIR CONDITIONING AND RELATED COMPONENTS**
- 310 CONSOLE INSTALLATIONS**

S. BARRELL, INC. 1969

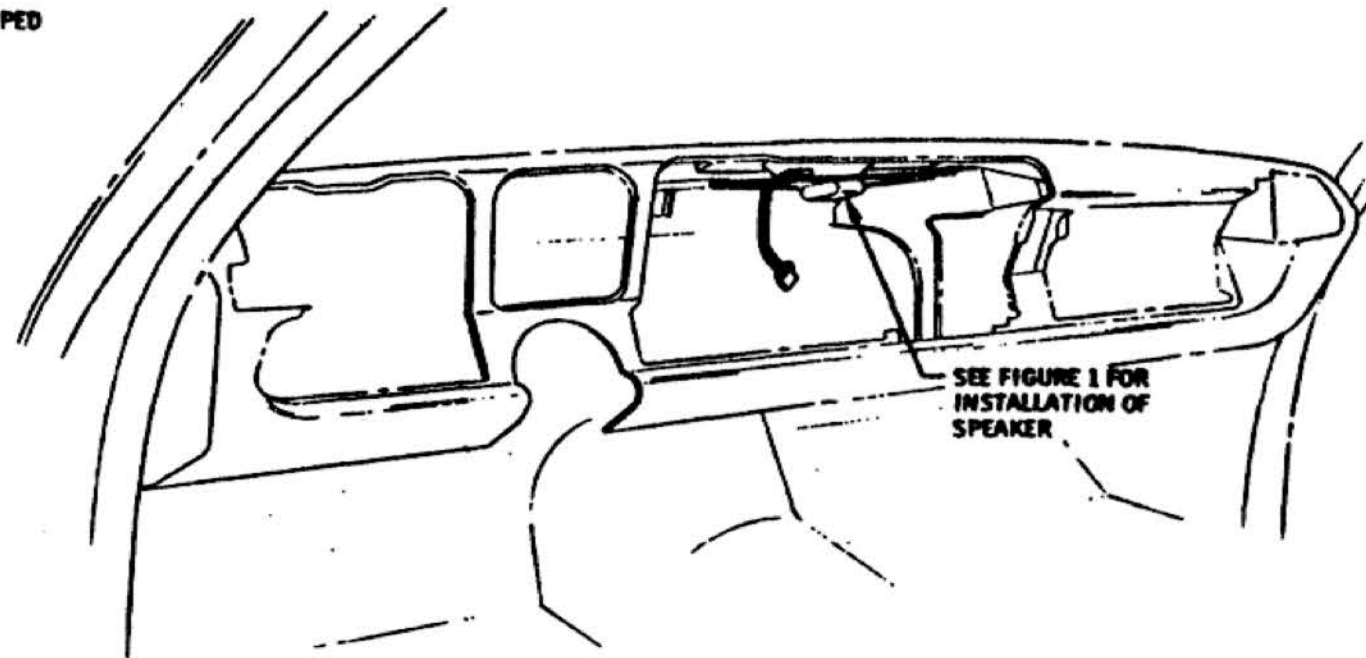


⚠ 15-22 LB. FT.
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

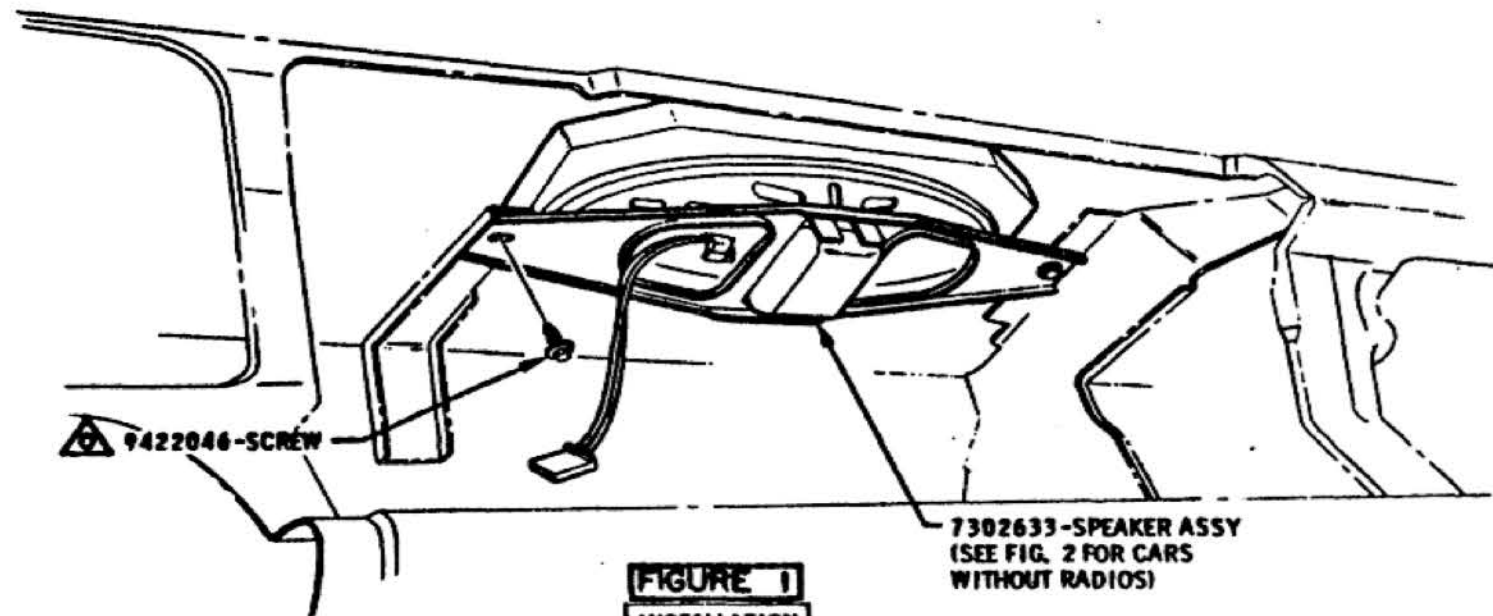
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										6-18-68	E	BACKGROUND REVISED					6-18-68	D	WAS 9780422				
										6-18-68	C	FIGURE 2 ADDED					6-18-68	B	TORQUE REVISED				
										9-20-68	A	WAS 402705-OUTLET-LH.											

TITLE DEFROSTER OUTLETS AND STEERING COLUMN SUPPORTS		FIRST USED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. 1-1	PAGE 110
DR. BY P.J. MCKESLY	CHECKED J.P.A.	REF. I.A. C 9C	SERIES A	PART NO. 401900	
APPR. H. Schutte	APPR. S.M. 1/31/68				

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED



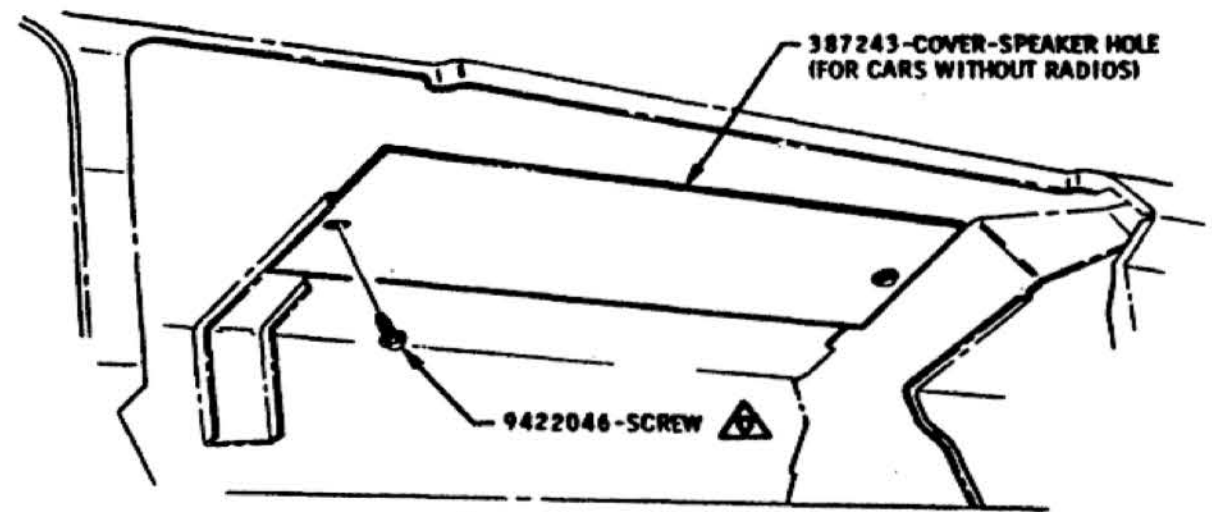
SEE FIGURE 1 FOR
INSTALLATION OF
SPEAKER



9422046-SCREW

7302633-SPEAKER ASSY
(SEE FIG. 2 FOR CARS
WITHOUT RADIOS)

FIGURE 1
INSTALLATION
OF SPEAKER



387243-COVER-SPEAKER HOLE
(FOR CARS WITHOUT RADIOS)

9422046-SCREW

FIGURE 2
INSTALLATION OF
SPEAKER HOLE COVER

TITLE												SPEAKER AND SPEAKER HOLE COVER		
DATE	JAN. 17, 1968					FIRST USED	1969		OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE			
DR. BY	R. J. McKESSY					CHECKED	JRM		INFORMATION MANUAL	1-1	111			
APPR.	J. V. McKESSY					REF. 122	35463		SERIES	A	PART NO.			
APPR.	SAC 1/22/68					REF. 122	35469		401900					
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM			

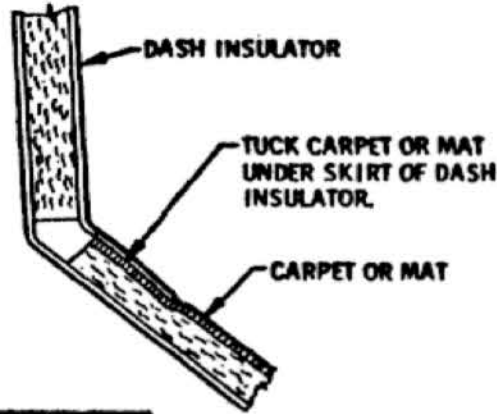


FIGURE 1
TYPICAL SECTION THROUGH
CARPET OR MAT & DASH INSULATOR

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-L, PAGES 116
AND 215

9416208 - SCREW

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)

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

REVISION												TITLE									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	
																	DEC. 6, 1967	1969		1-1	113
																	1/1-3873	SERIES	A	PART NO.	401900

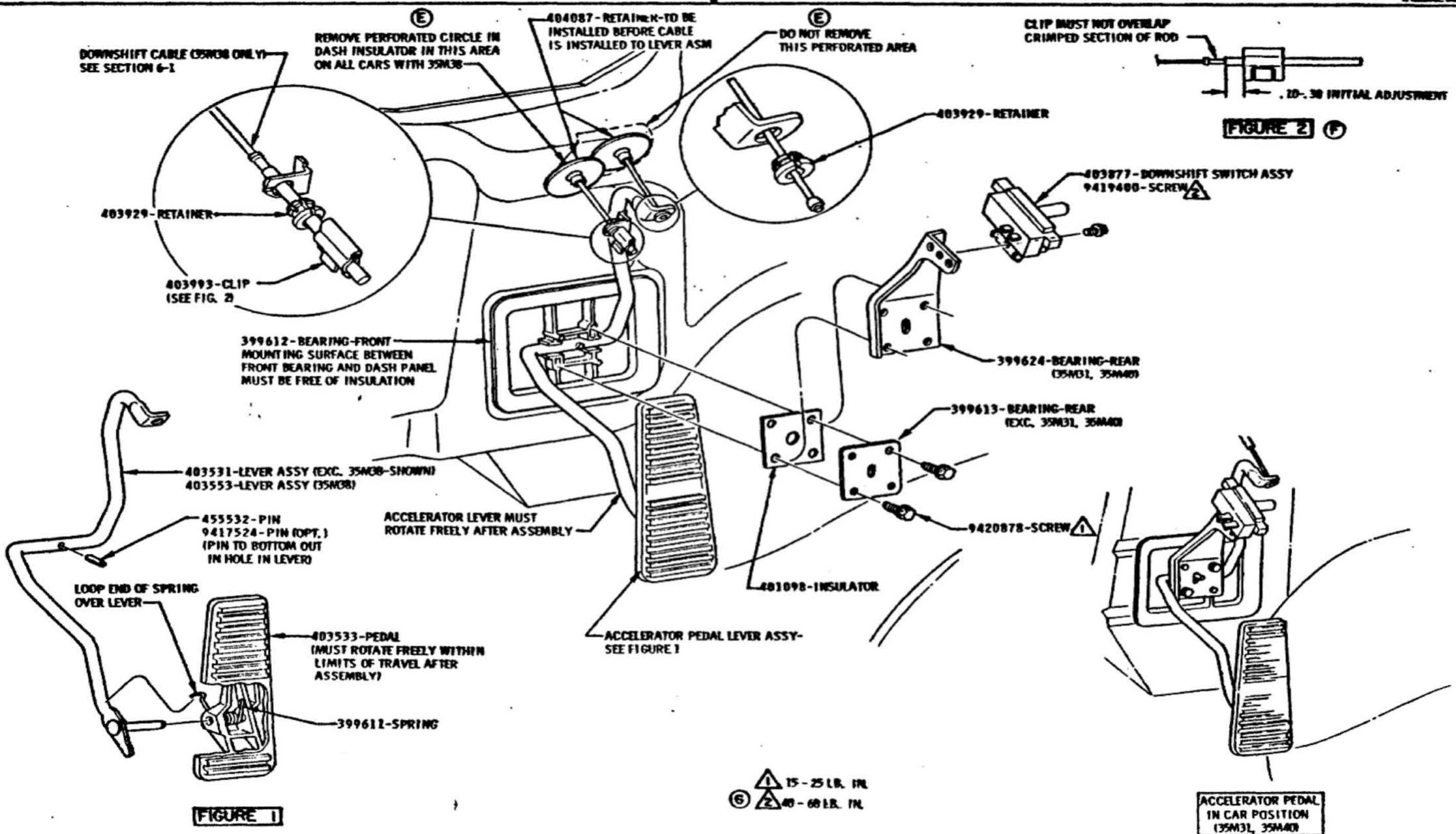
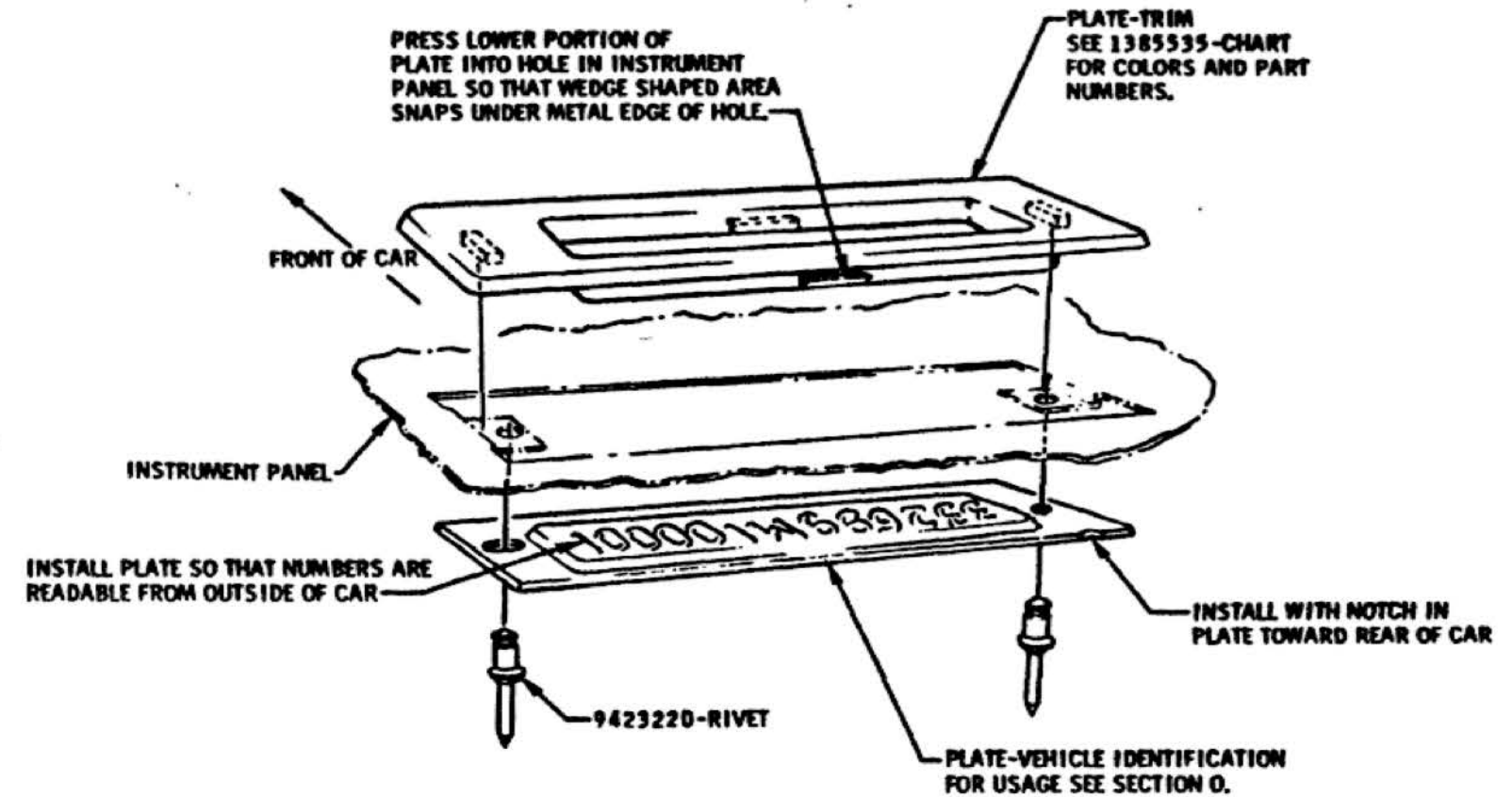
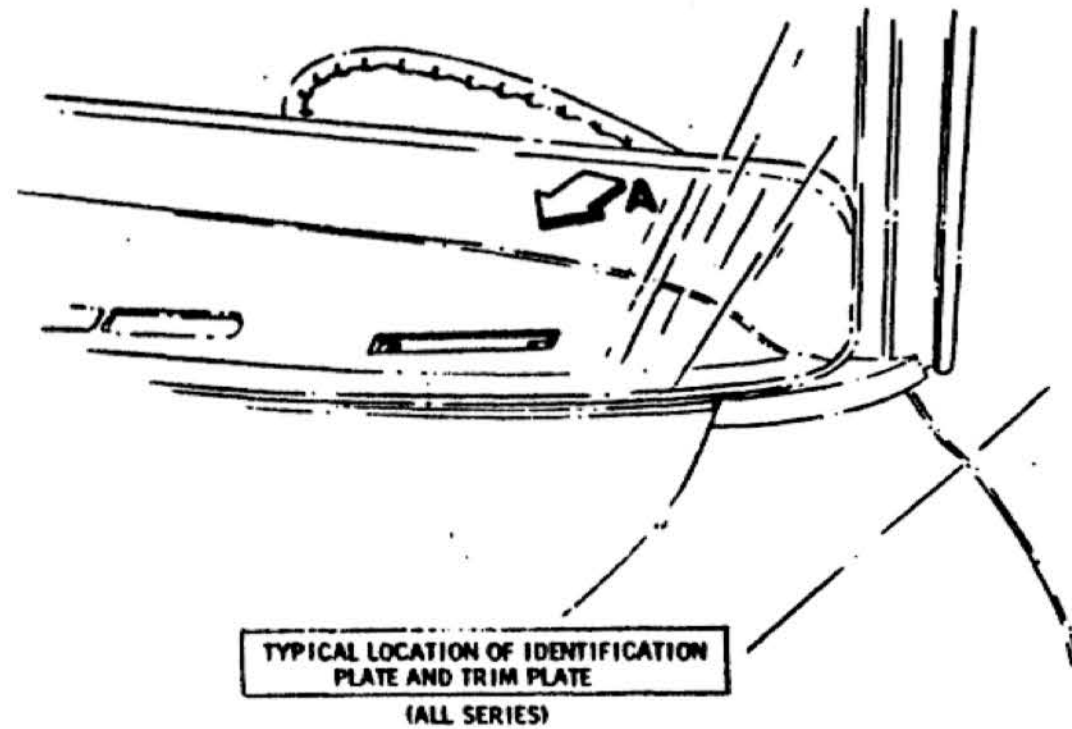


FIGURE 1

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.											
					8-14-68	E ₂	NOTE ADDED																																																
					7-8-68	D	NOTE ADDED																																																
					5-24-68	C	404087-RETAINER ADDED																																																
					5-7-68	B ₂	PART NO. REVISED																																																
					5-7-68	A	WAS 1306458-RETAINER																																																
					4-23-68	G	WAS 25-35 LB. IN.																																																
					4-23-68	F	FIGURE 2 ADDED																																																

TITLE		THROTTLE CONTROL	
DATE	MAR. 9, 1969	FIRST USED	1969
DR. BY	M.C. MASON	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. 1-1
CHECKED	<i>J.P. Mason</i>	SERIES	A
APPR.	<i>J.P. Mason</i>	PART NO.	401900
DATE	MAY 31, 1969		
REF. CAR	35M31, 35M40		



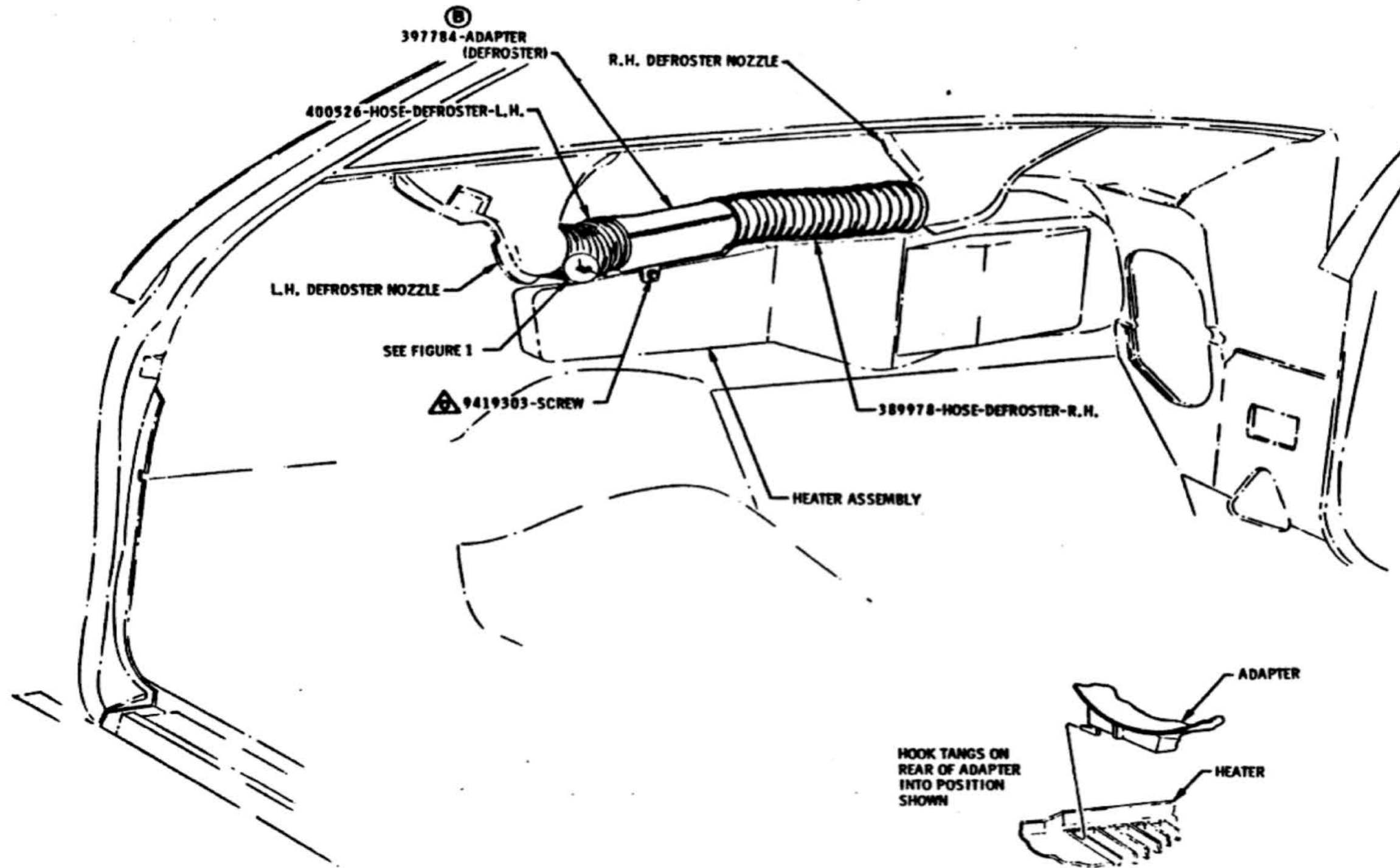
VIEW A
TYPICAL INSTALLATION
(ALL SERIES)

												TITLE VEHICLE IDENTIFICATION PLATE AND TRIM PLATE									
				DATE <i>MAR. 23 1969</i>			FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. PAGE 1-1 119										
				DR. BY <i>B. PARKER</i>			CHECKED <i>✓ JTD</i>		SERIES ABCE		PART NO. 401900-1-2										
				APPR. <i>[Signature]</i>			REF. 14F														
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

G. HARVEY, 10/28/68



HOOK TANGS ON
REAR OF ADAPTER
INTO POSITION
SHOWN

FIGURE 1

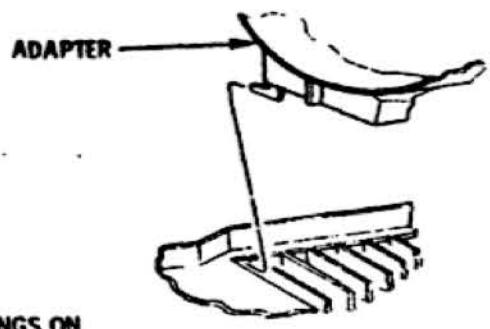
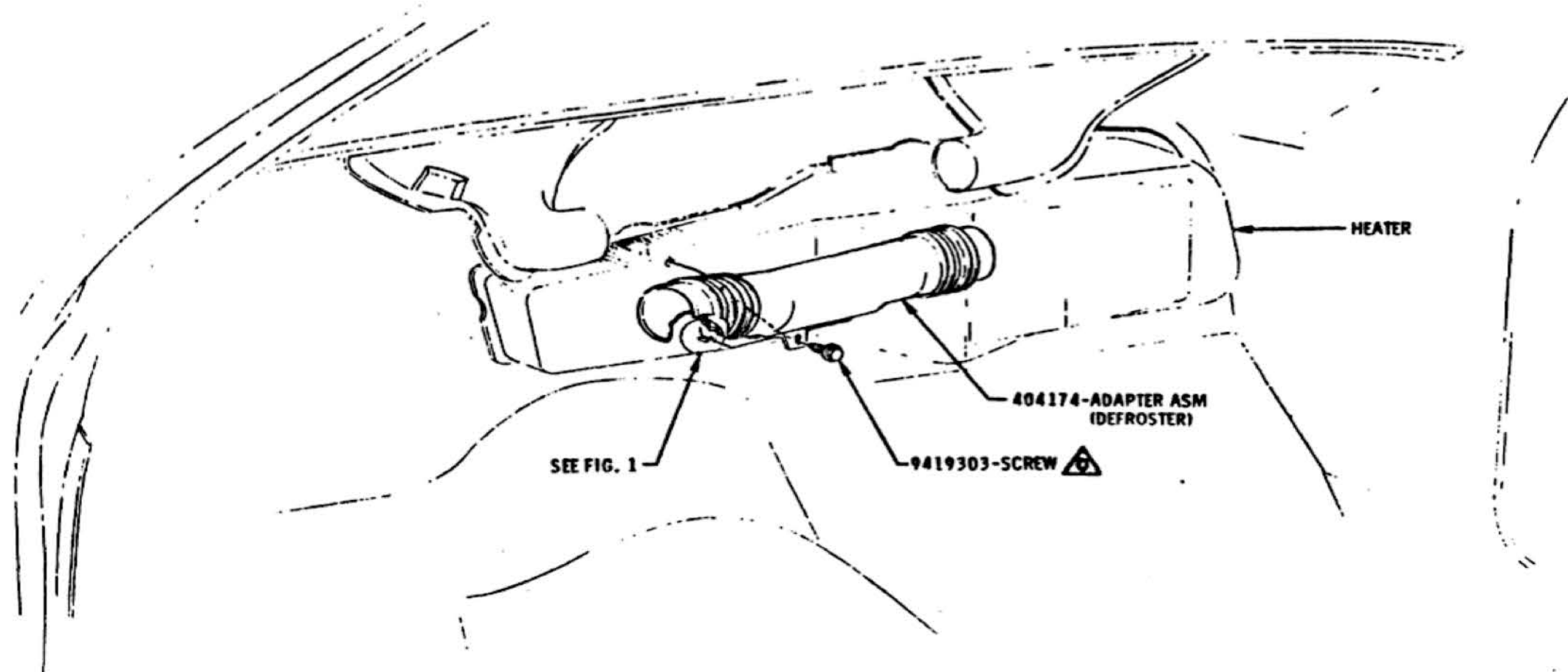
(A) (C)



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.	DATE	SYM	REVISION	
					2-8-68		C					TITLE REVISED											
					6-20-68		B					ADAPTER ADDED											
					6-20-68		A					TITLE REVISED											

TITLE DEFROSTER ADAPTER & HOSES				FIRST USED	MANUAL SEC.	PAGE
DATE	DR. BY	CHECKED	APPR.	1969	1-1	122
JAN. 23 1968	D.J. M'NESSY	<i>[Signature]</i>	<i>[Signature]</i>	REF. 112C	SERIES	PART NO.
			SM 1/25/68		A	401900

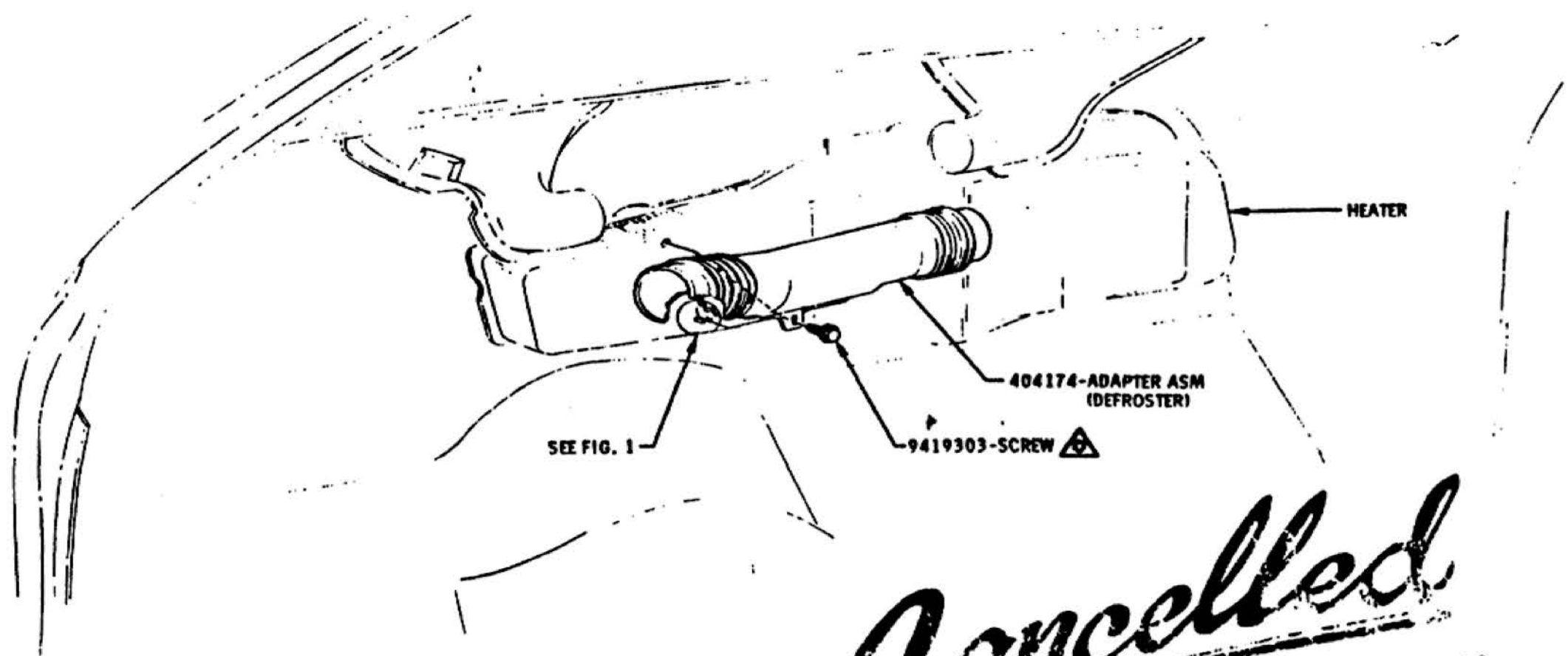


HOOK TANGS ON REAR OF ADAPTER INTO POSITION SHOWN

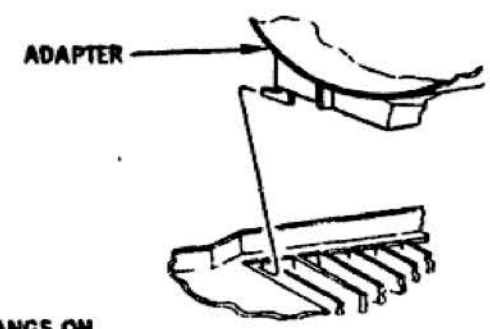
FIGURE 1

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

										TITLE DEFROSTER ADAPTER (SECOND TYPE)			
DATE <i>JUNE 20, 1968</i>					FIRST USED					OLDSMOBILE PRODUCT		MANUAL SEC.	PAGE
DR BY <i>P. J. McKEESSY</i>					1969					INFORMATION MANUAL		1-1	123
CHECKED <i>[Signature]</i>					REF 1A2C					SERIES		PART NO.	
APPR. <i>[Signature]</i>					APPR. <i>[Signature]</i>					A		401900	
DATE SYM REVISION DR. CK. DATE SYM REVISION DR. CK. DATE SYM REVISION DR. CK. DATE SYM REVISION DR. CK. DATE SYM REVISION													



Cancelled
 2ND TYPE DEFROSTER ADAPTER CANCELLED
 PER NOTICE R-AEY
 Signed D. TIEUS Date 2-9-69

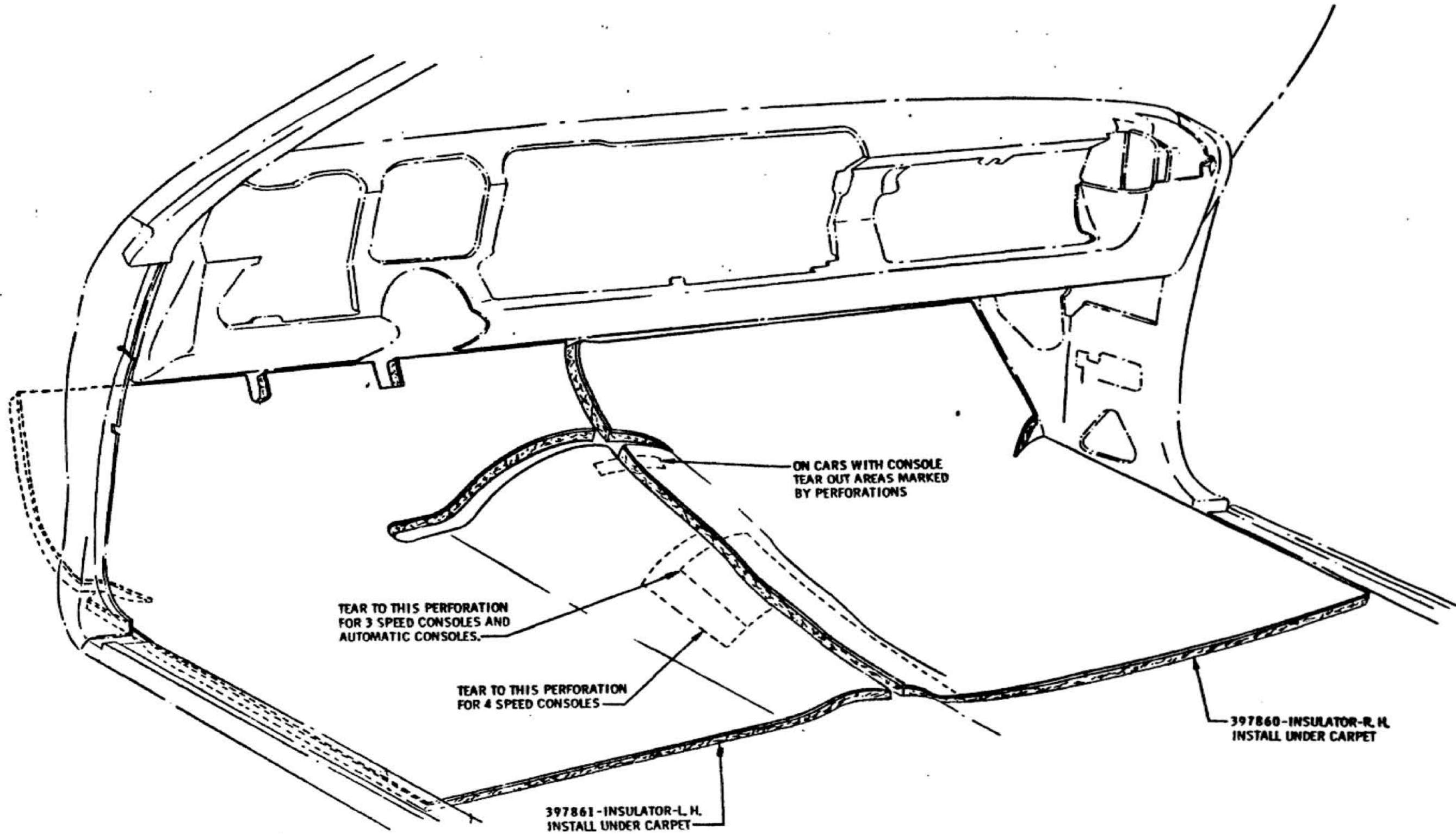


HOOK TANGS ON REAR OF ADAPTER INTO POSITION SHOWN

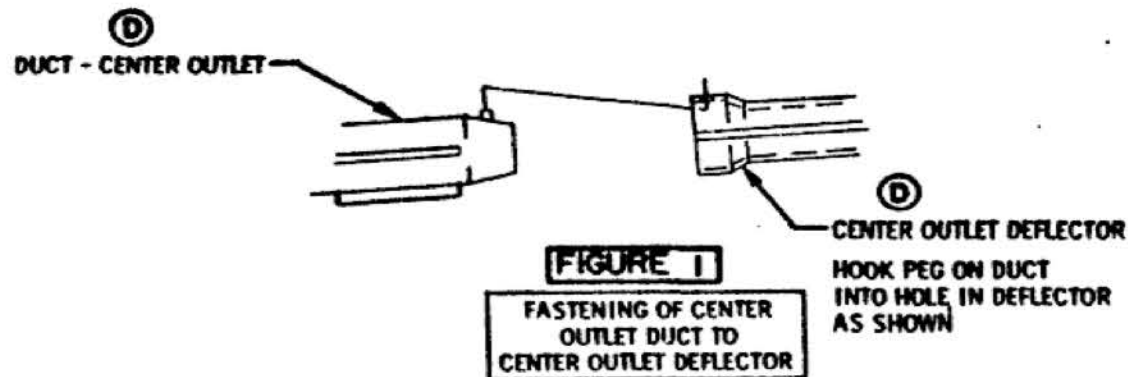
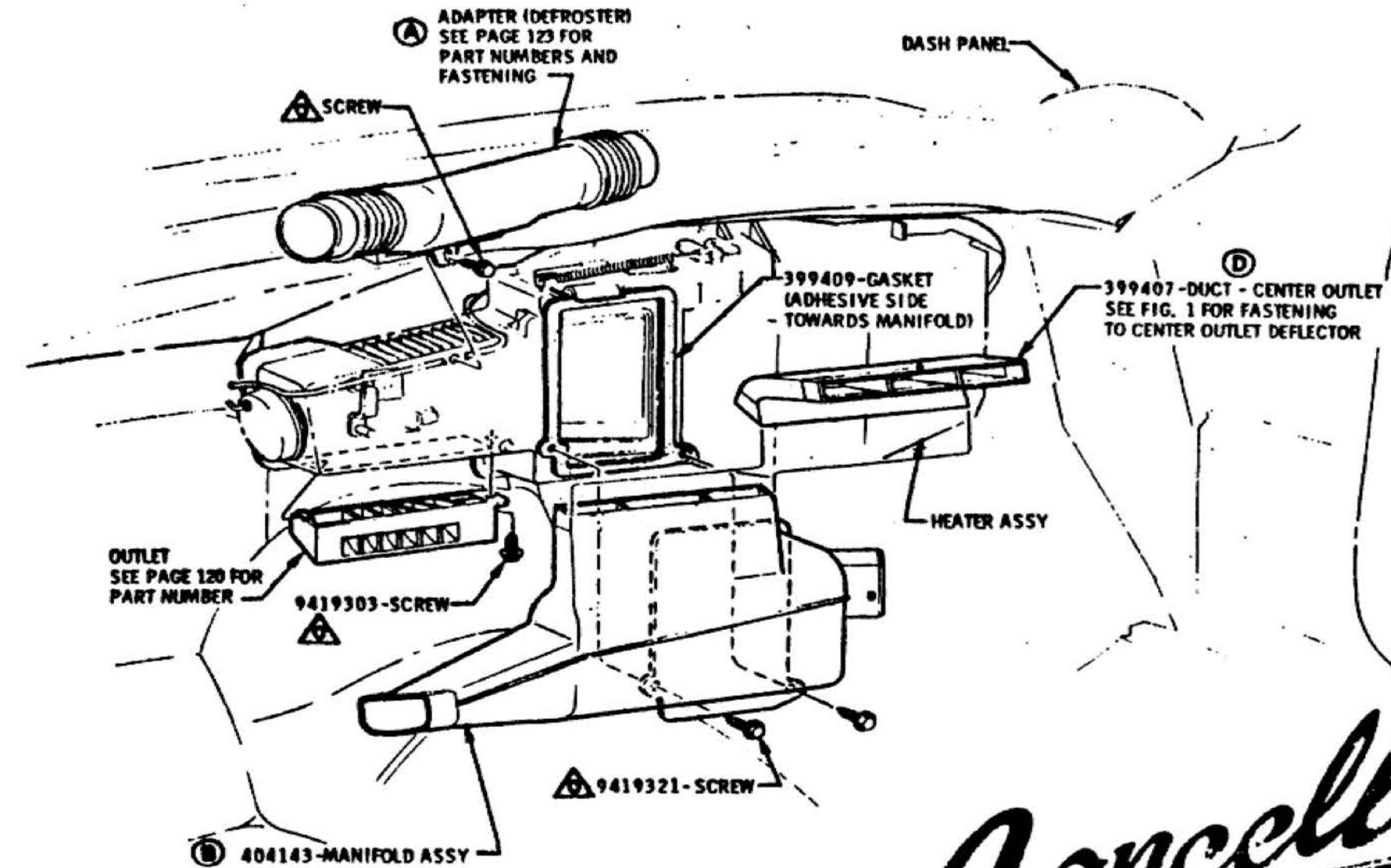
FIGURE 1

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

										TITLE DEFROSTER ADAPTER (SECOND TYPE)		FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. PAGE 1-1 123			
										DATE JUNE 20, 1968		REF. 1A2C		SERIES A		PART NO. 401900			
										DR. BY P. J. MCKESSY		APPR. <u>[Signature]</u>							
										CHECKED <u>[Signature]</u>		APPR. <u>[Signature]</u> 6/20/68							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.



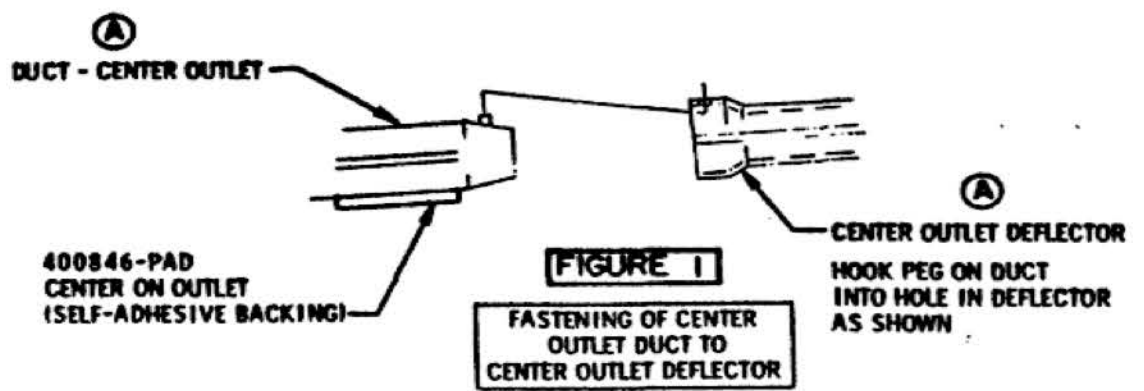
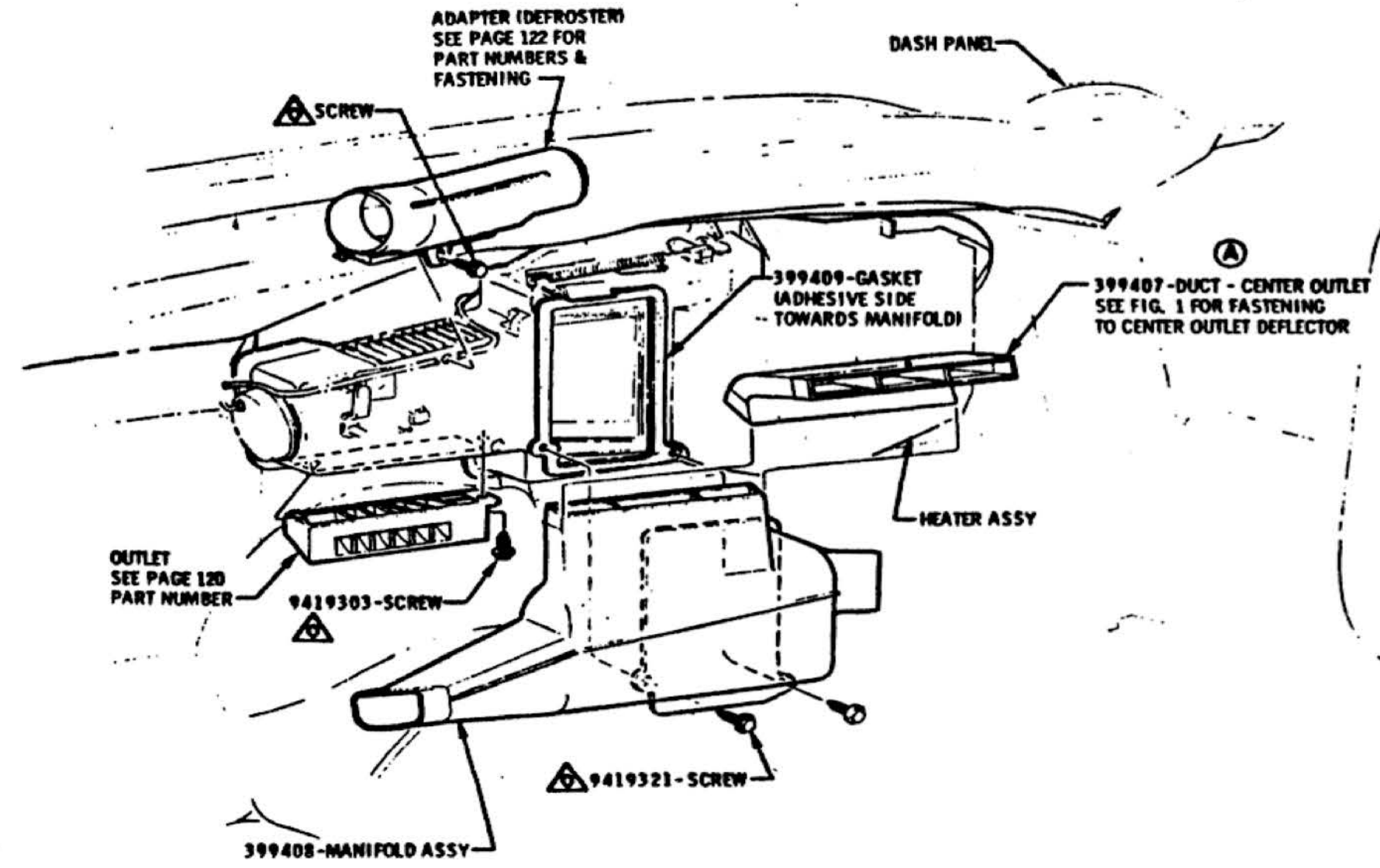
DATE		SYM		REVISION		DR. CK.		DATE		SYM		REVISION		DR. CK.		DATE		SYM		REVISION											
																TITLE		AIR CONDITIONING INSULATORS													
																DATE		DEC 8, 1967		FIRST USED		1969		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE		1-1 210			
																DR. BY		B. PARKER		REF.		35060		SERIES		A		PART NO.		401900	
																CHECKED		<i>[Signature]</i>		APPR.		<i>[Signature]</i>									
																APPR.		<i>[Signature]</i>		DATE											



Cancelled
 2ND TYPE DEFROSTER ADAPTER
 CANCELLED FOR NOTICE R-REV
 Signed B. TITUS Date 8-2-69

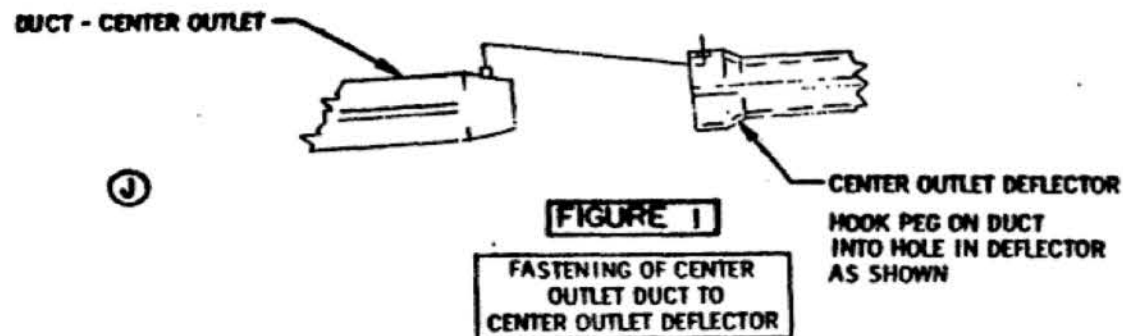
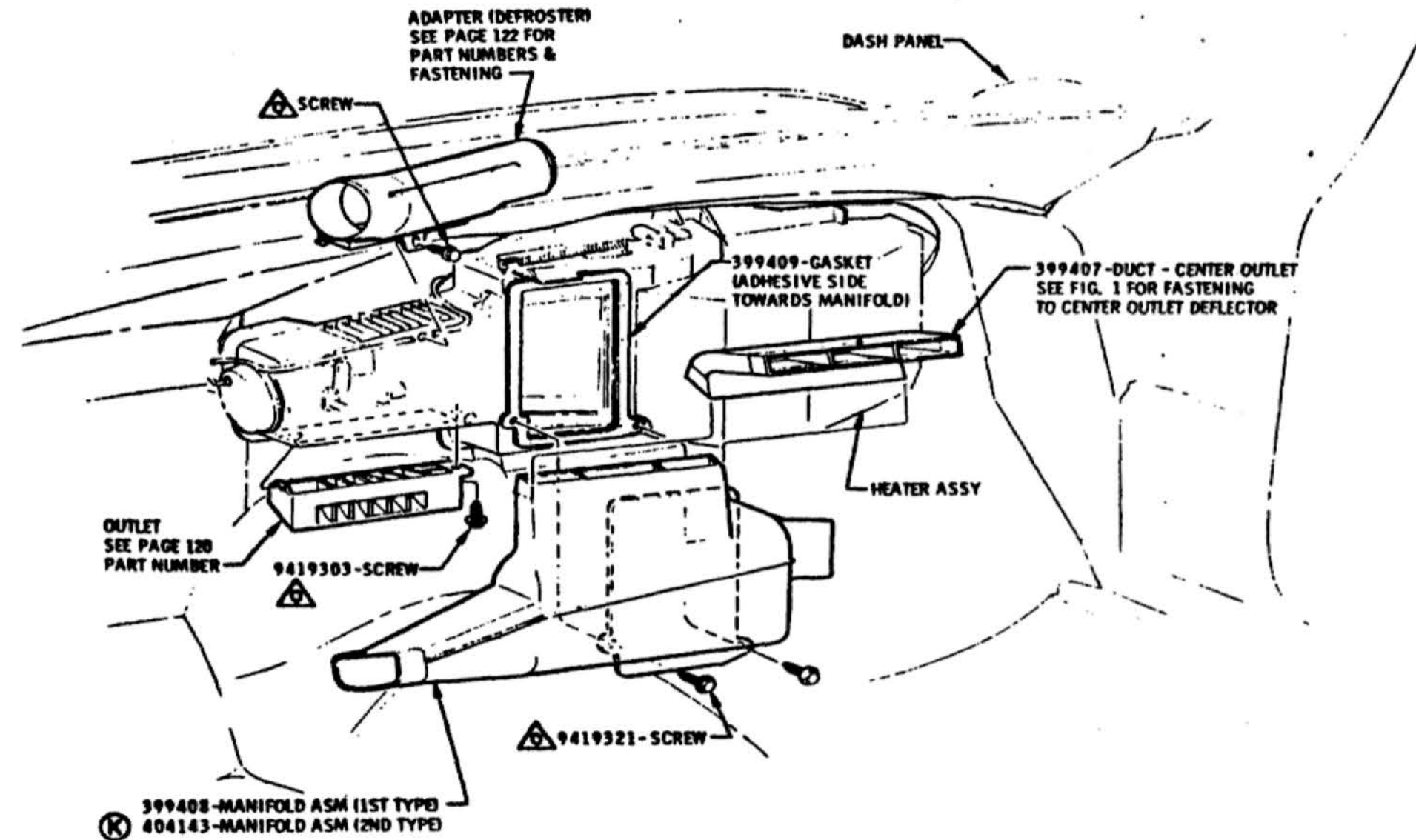
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

REV	DATE	BY	REVISION	DR	CHK	DATE	BY	REVISION	DR	CHK	DATE	BY	REVISION	DR	CHK	DATE	BY	REVISION	TITLE	FIRST USED	REF.	SERIES	PART NO.	MANUAL SEC.	PAGE
																			A/C MANIFOLD ASSEMBLY TO HEATER (SECOND TYPE)	1969	35C60	A	401900	1-1	213
	6-26-68		D3					NAME REVISED												DR. BY					
	6-29-68		C					TITLE REVISED												DR. BY					
	6-29-68		B					WAS 39940B - MANIFOLD												CHECKED					
	6-29-68		A					ADAPTER REVISED												APPR.					



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

TITLE A/C MANIFOLD ASSEMBLY TO HEATER (FIRST TYPE)									
DATE <i>JUNE 20, 1968</i>		FIRST USED	OLDSMOBILE PRODUCT		MANUAL SEC.	PAGE			
DR. BY <i>P. J. MCKESSY</i>		1969	INFORMATION MANUAL		1-1	213 A			
CHECKED <i>[Signature]</i>		REF. 35000	SERIES A		PART NO. 401900				
APPR. <i>E. E. Malinika</i>									
6-25-68 A3 NAMES REVISED									



△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

REV.	DATE	BY	REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	DATE	SYM.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
													A/C MANIFOLD ASSEMBLY TO HEATER	1969	1-1	214	
P-1-69		K	2ND TYPE ADDED	JM	DT	6-20-69	F	TITLE REVISED	JM	DT							
P-1-69		J	400846 - PAD REMOVED	JM	DT	6-20-69	D	REVISED & REDRAWN	JM	DT							
B-7-69		H	INFO FROM PAGE 213A ADD	JM	DT	5-20-68	C2	WAS 9422561 - SCREW	JM	DT							
B-7-69		G	INFO MOVED TO PAGE 213	JM	DT	3-7-68	B	WAS 403452 - HOSE	JM	DT							
6-25-68		F	NAMES REVISED	JM	DT	2-27-68	A	WAS 402178 - HOSE	JM	DT							

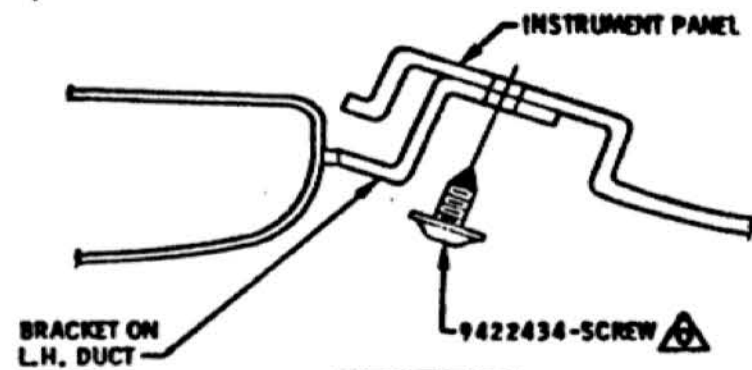
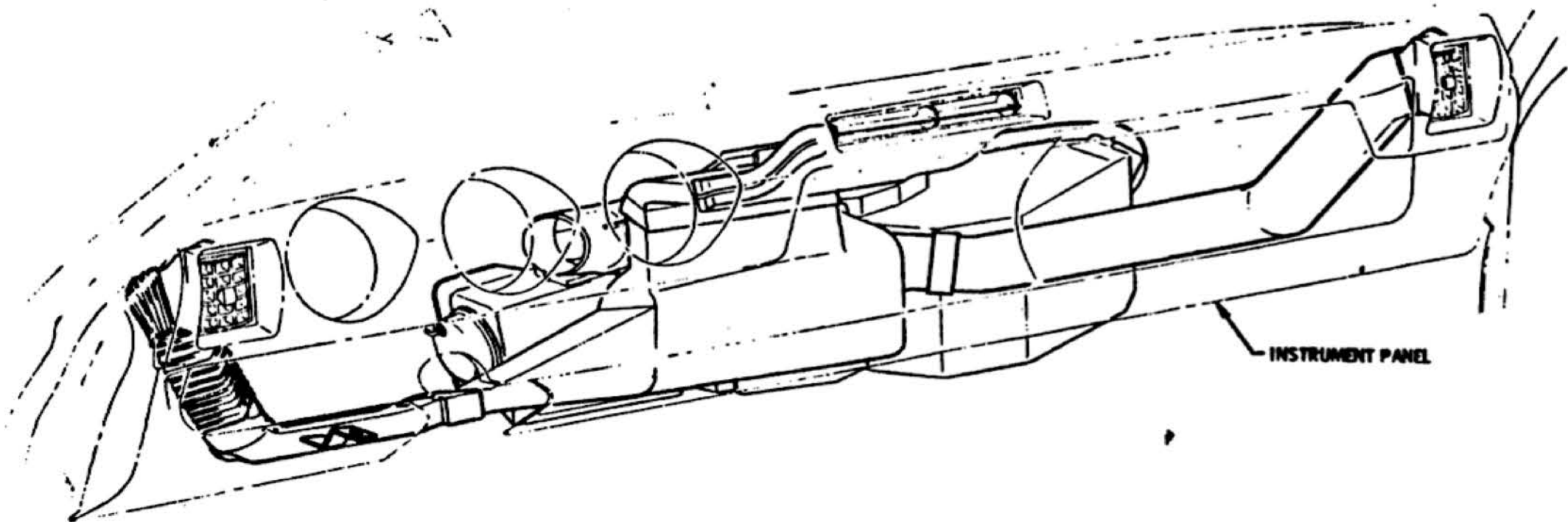
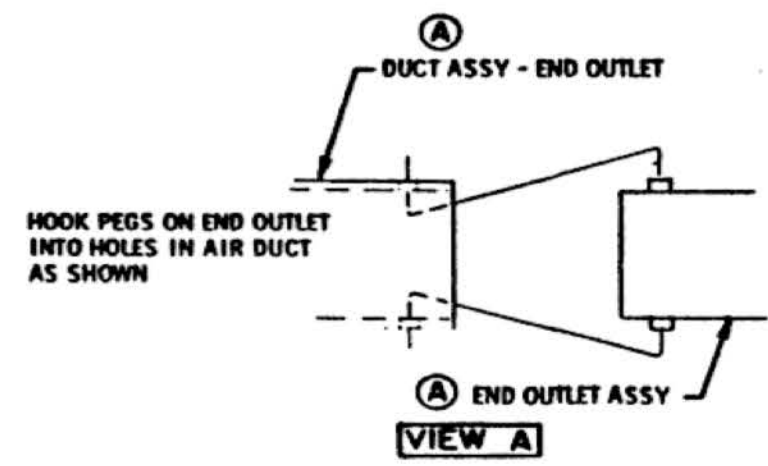
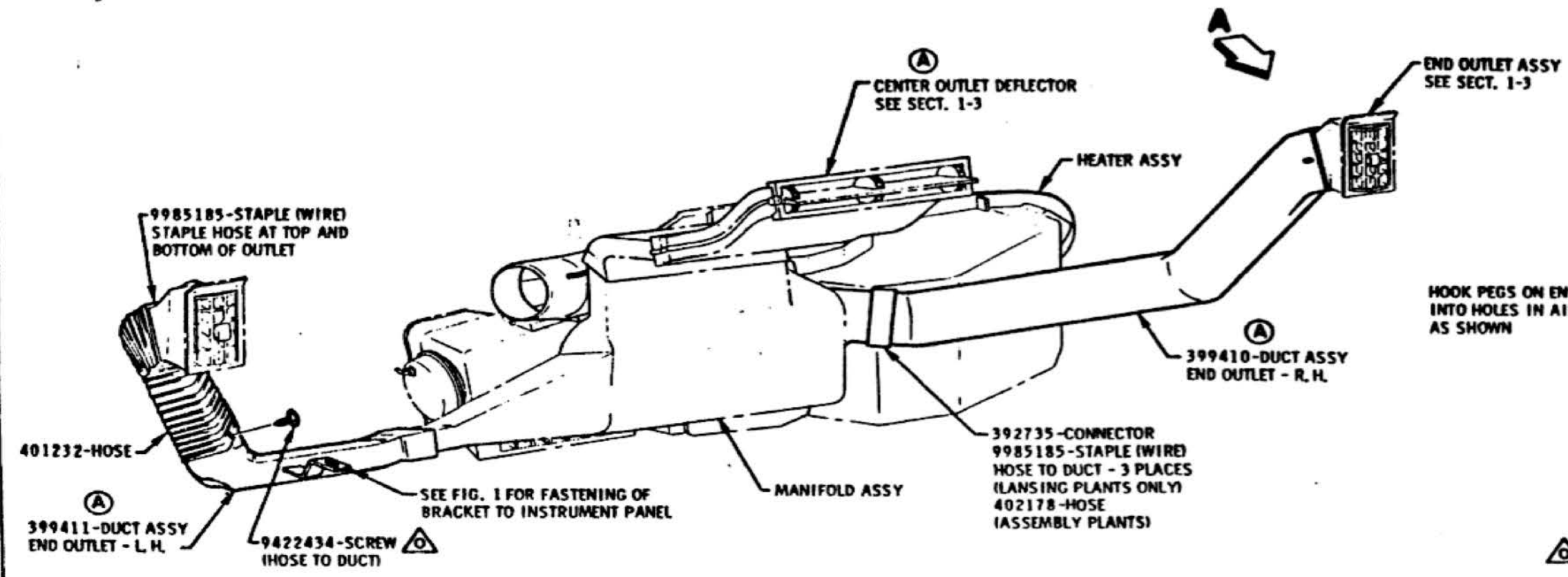


FIGURE 1



VIEW A

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

TITLE A/C END OUTLET DUCTS & HOSES (FIRST TYPE)									
DATE	JUNE 20 1968		FIRST USED	1969		OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE	
DR. BY	P. J. MCKESSY		CHECKED	T. J.		INFORMATION MANUAL	1-1	214 A	
A. NAME DESIGNED			D.			SERIES	PART		

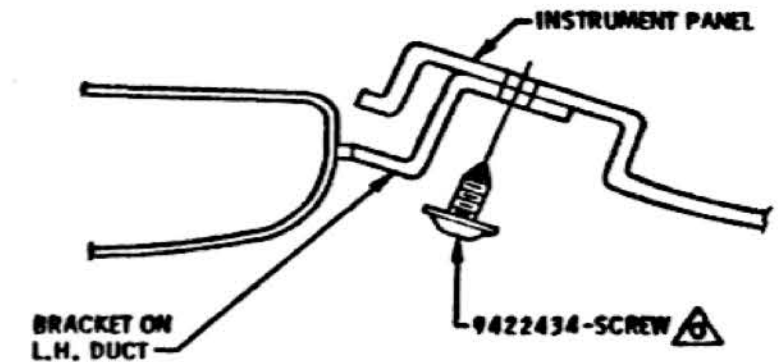
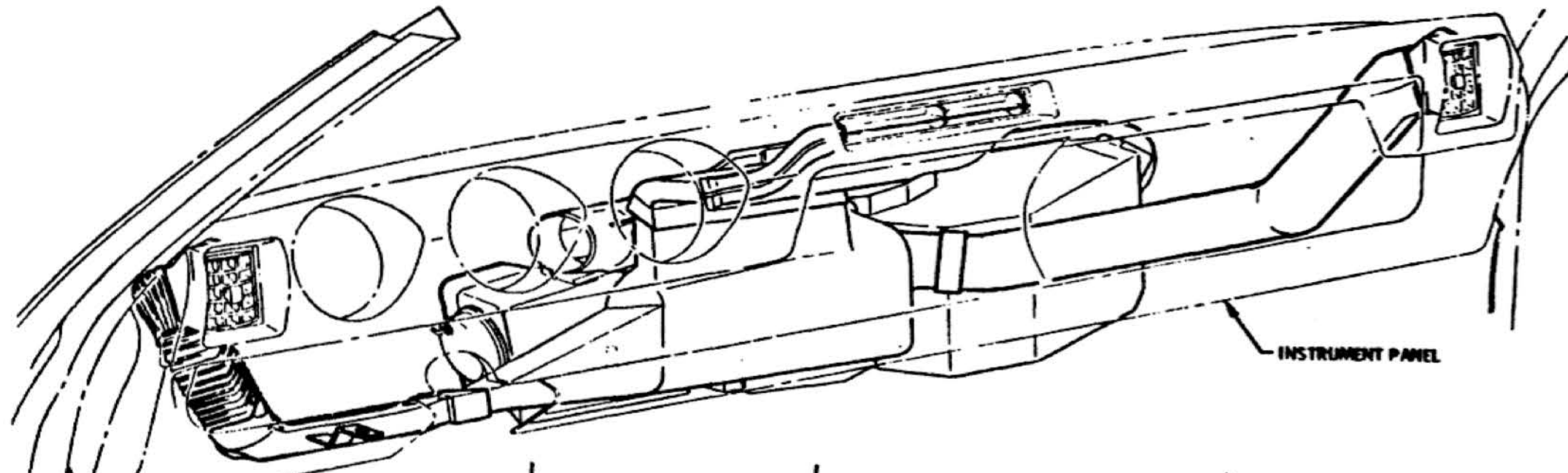
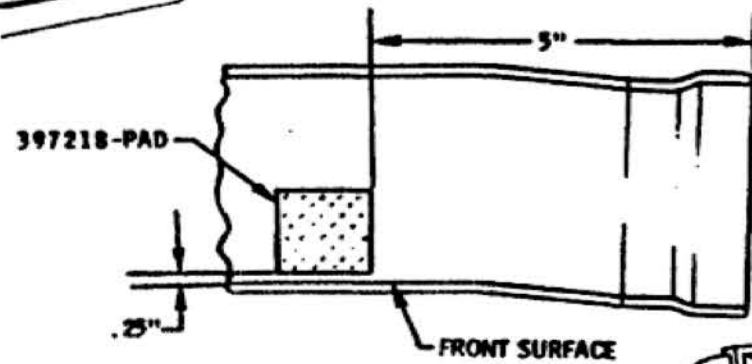
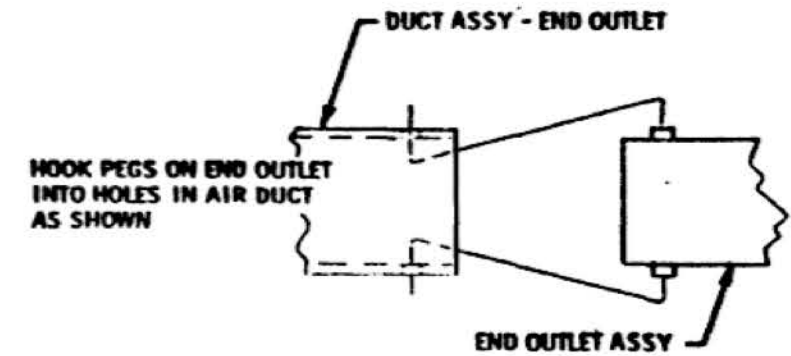
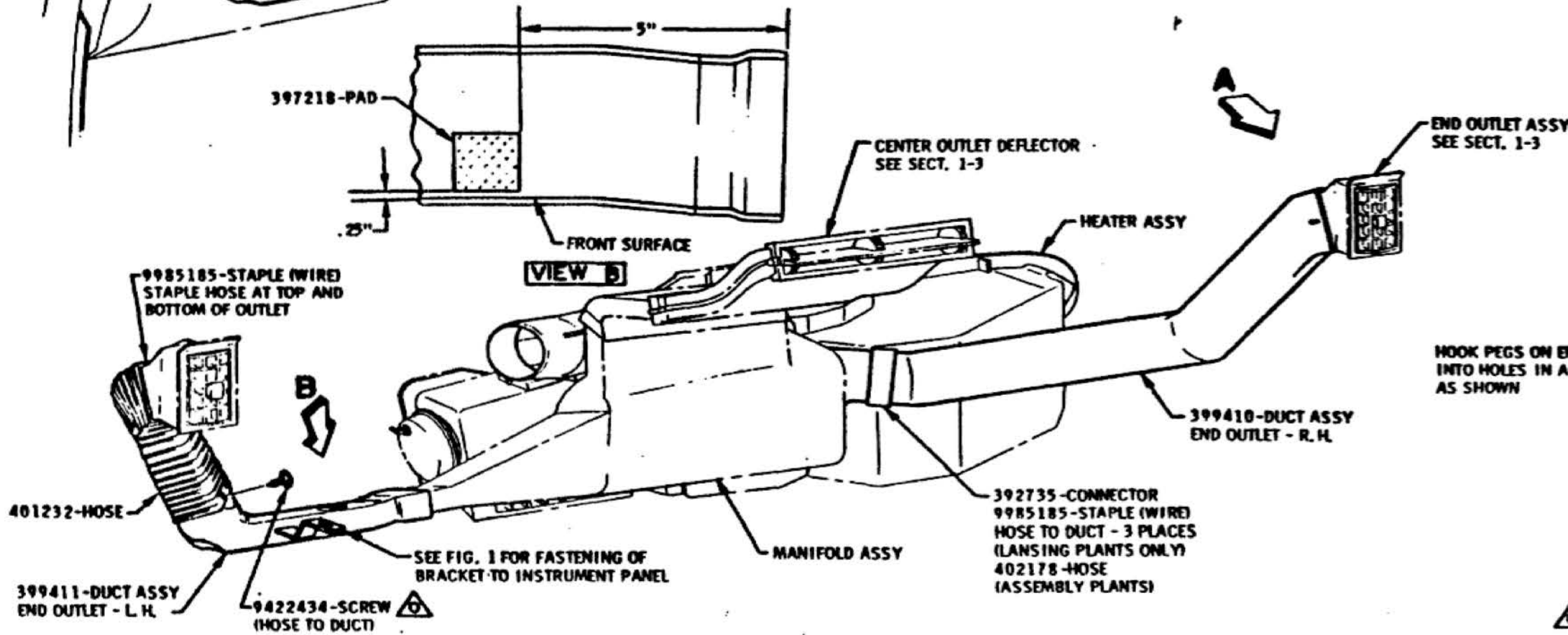


FIGURE 1



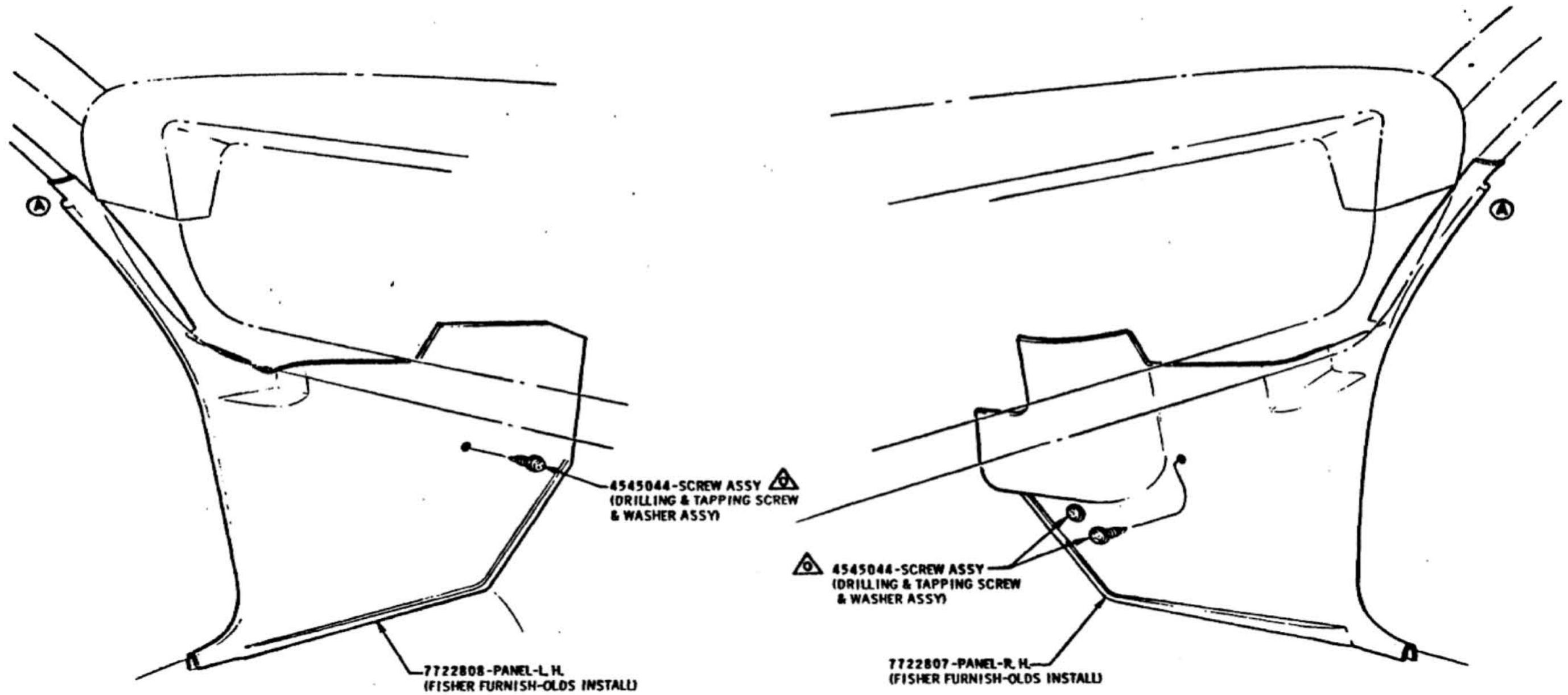
VIEW B



VIEW A

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

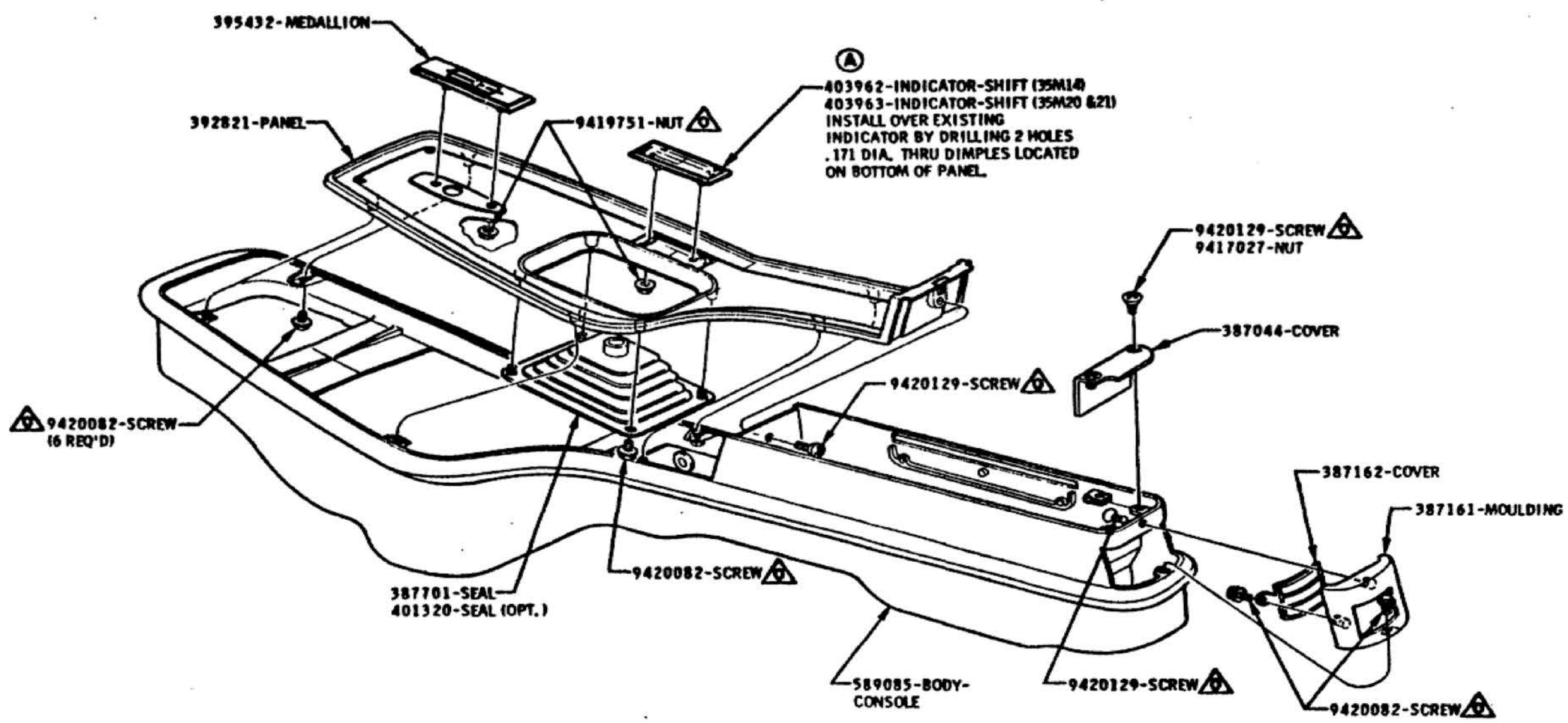
TITLE										A/C END OUTLET DUCTS & HOSES (FIRST TYPE)							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.		
DATE <i>AUG. 7, 1968</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
DR. BY <i>P.J. KRASSY-GILL</i>										1969		INFORMATION MANUAL		1-1		216	
CHECKED <i>[Signature]</i>										SERIES		PART NO.					
APPR. <i>K.E. MALHOTRA</i>										A		401900					



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

TITLE												A/C SHROUD SIDE FINISHING PANEL										
												DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE						
												AUG. 7, 1968	1969		1-1	217						
												DR. BY P.J. MYERS - GALL										
												CHECKED	REF.	SERIES	PART NO.							
												APPR. <i>[Signature]</i>		A	401900							
												APPR. <i>[Signature]</i>										
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	

11-8-68 A 7707798 CLIP REMOVED BY DT



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

										TITLE		MANUAL SHIFT CONSOLE							
										DATE	JAN. 10, 1969	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	1-1	PAGE	310	
										DR. BY	JOSEPH V. GALL	CHECKED	<i>[Signature]</i>	REF.	35055	SERIALS	A	PART NO.	401900
										5-17-68	A	WAS 586952 INDICATOR PL. DT		APPR.	<i>[Signature]</i>				

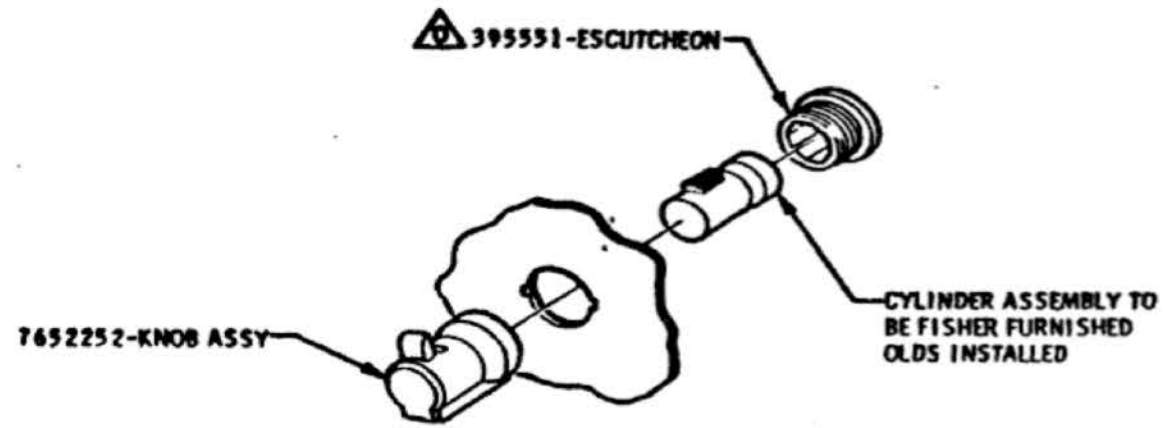
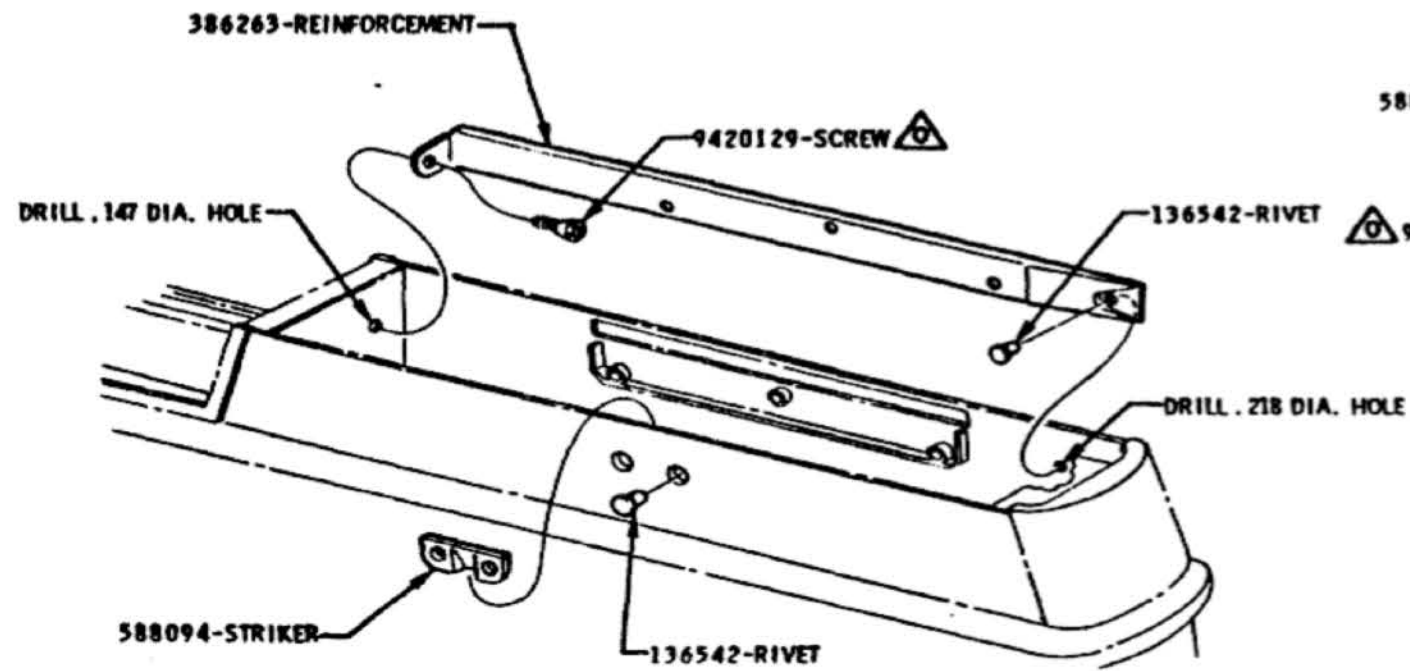
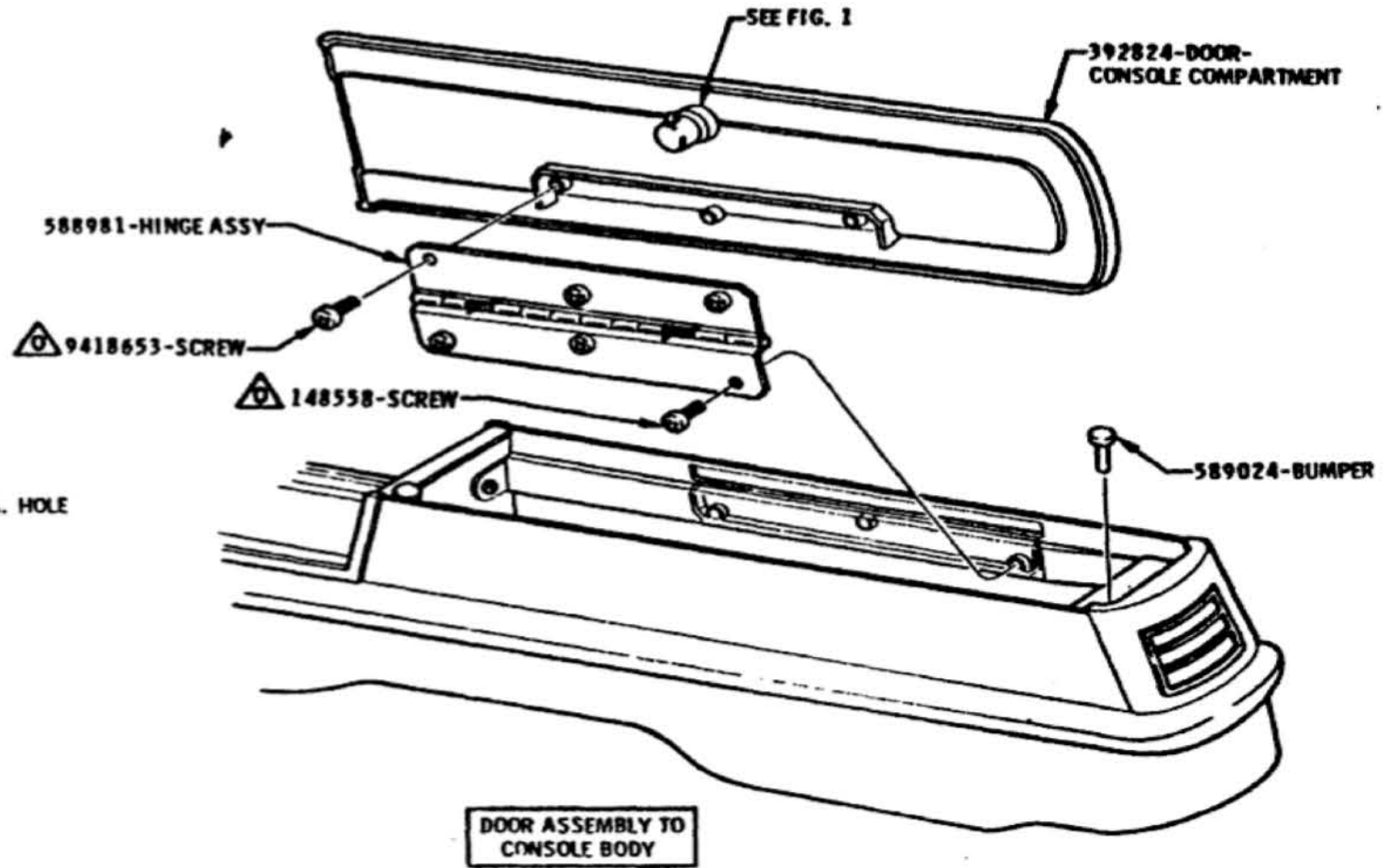


FIGURE 1



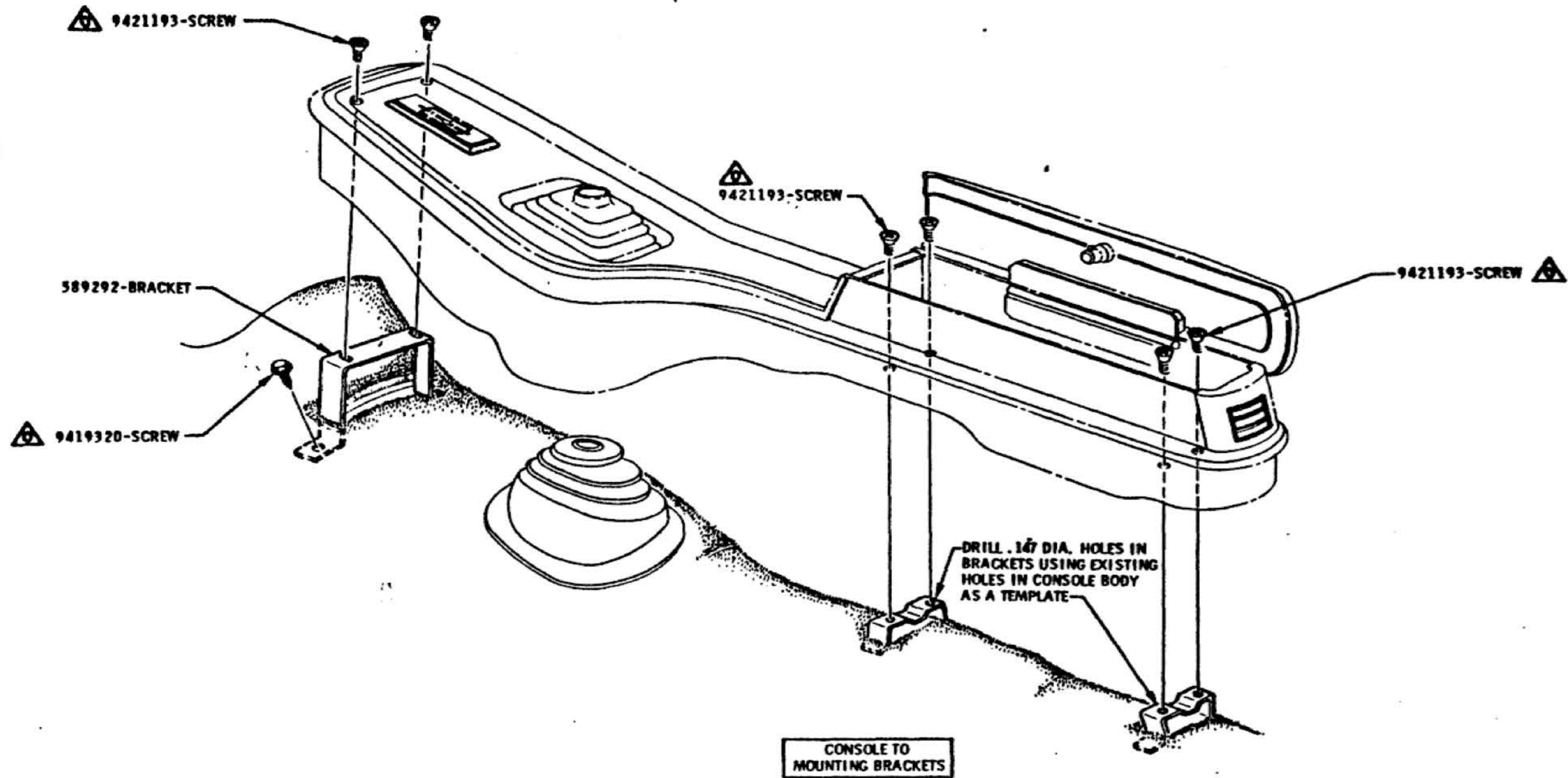
REINFORCEMENT AND STRIKER TO CONSOLE BODY



DOOR ASSEMBLY TO CONSOLE BODY

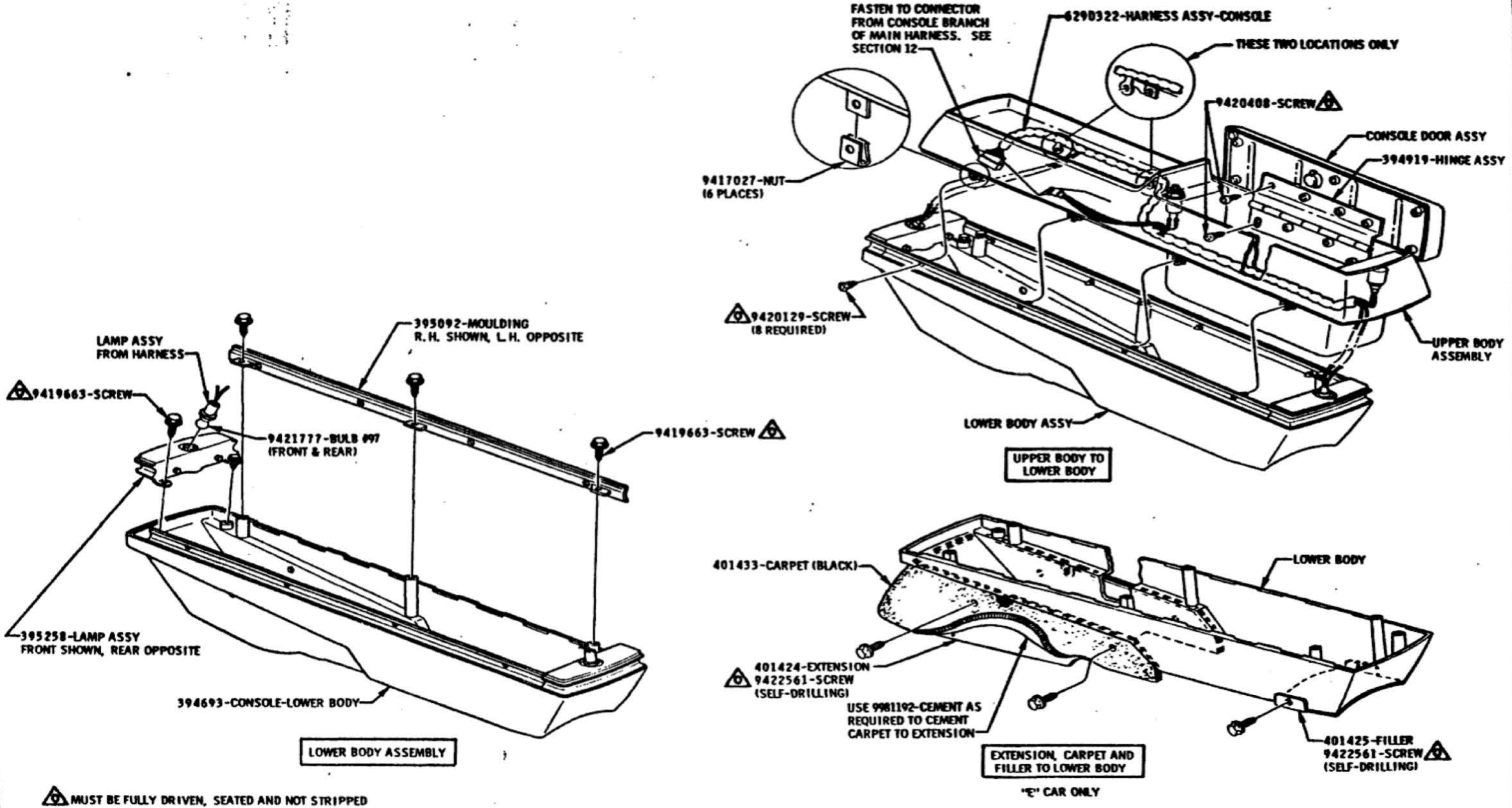
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE										MANUAL SHIFT CONSOLE							
DATE						DEC 18 1967		FIRST USED		1969		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
DR. BY						JOSEPH V. GALL		REV.		35055		SERIES		A		PART NO.	
CHECKED						[Signature]		APPR.		[Signature]		401900		1-1		311	
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION

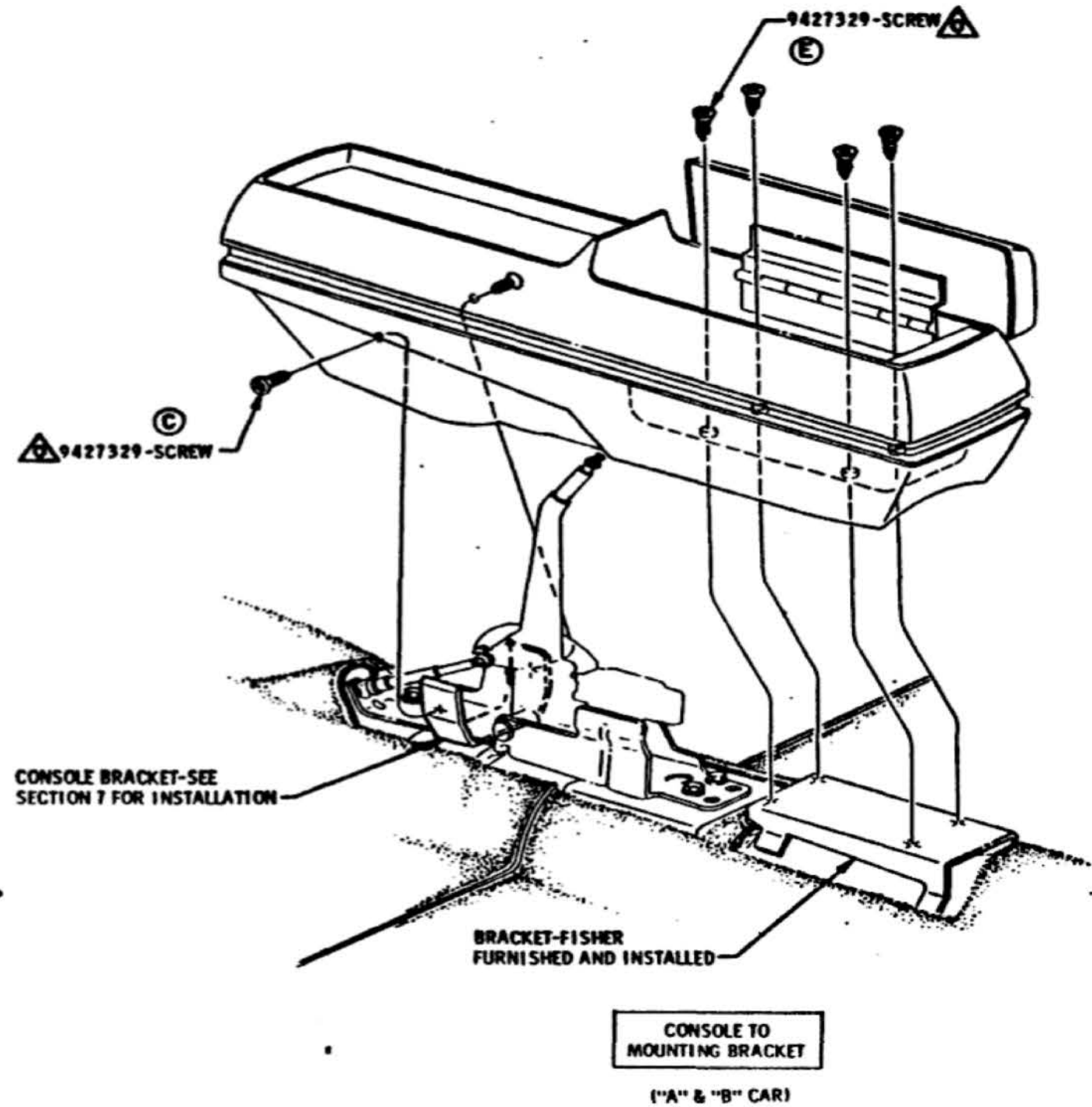
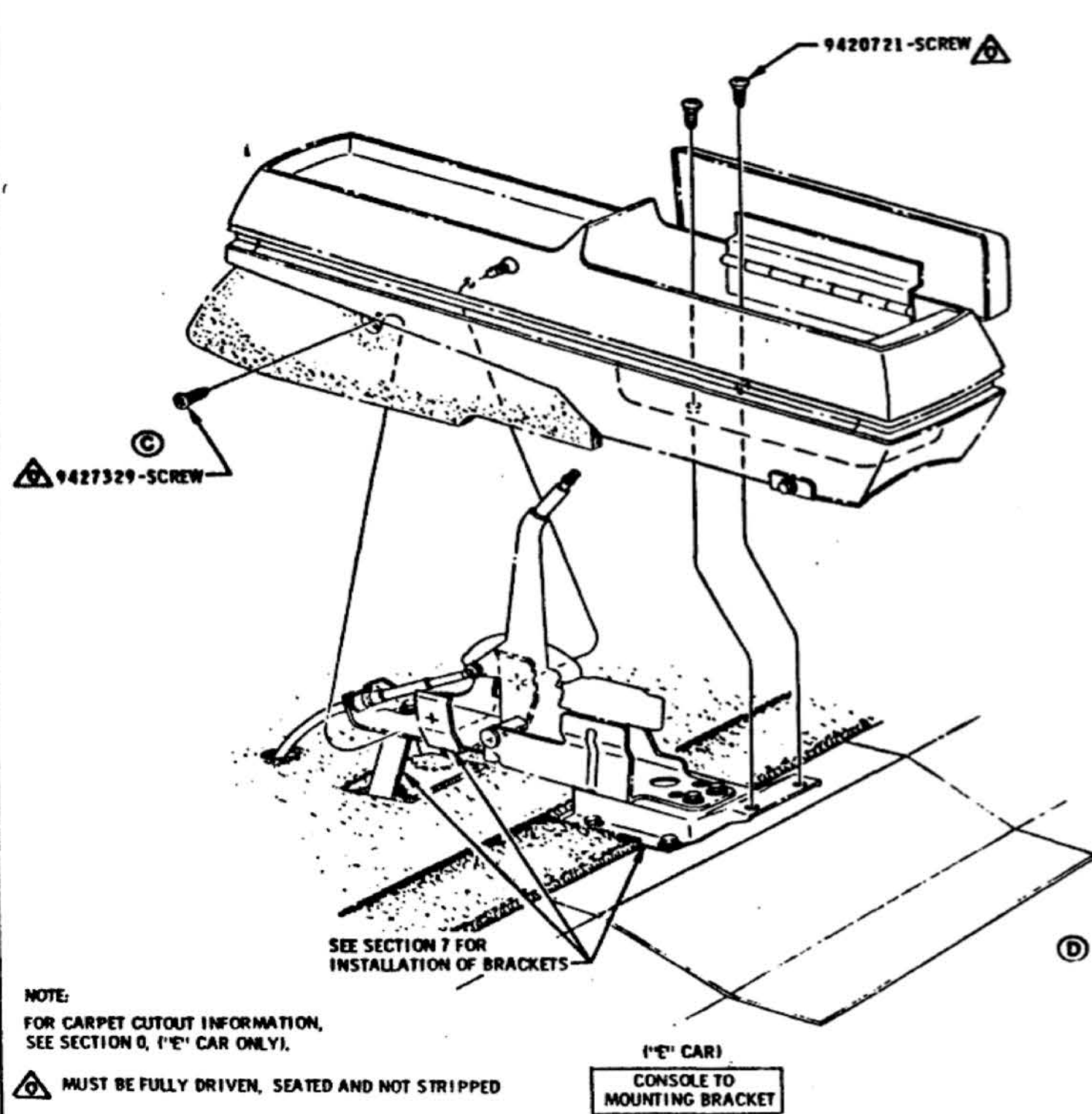


▲ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
															MANUAL SHIFT CONSOLE	1969		1-1	312
															DR. BY JOSEPH V GALL	REV. 35055	SERIES A		PART NO. 401900
															APPR. <i>[Signature]</i>				
															APPR. <i>[Signature]</i>				



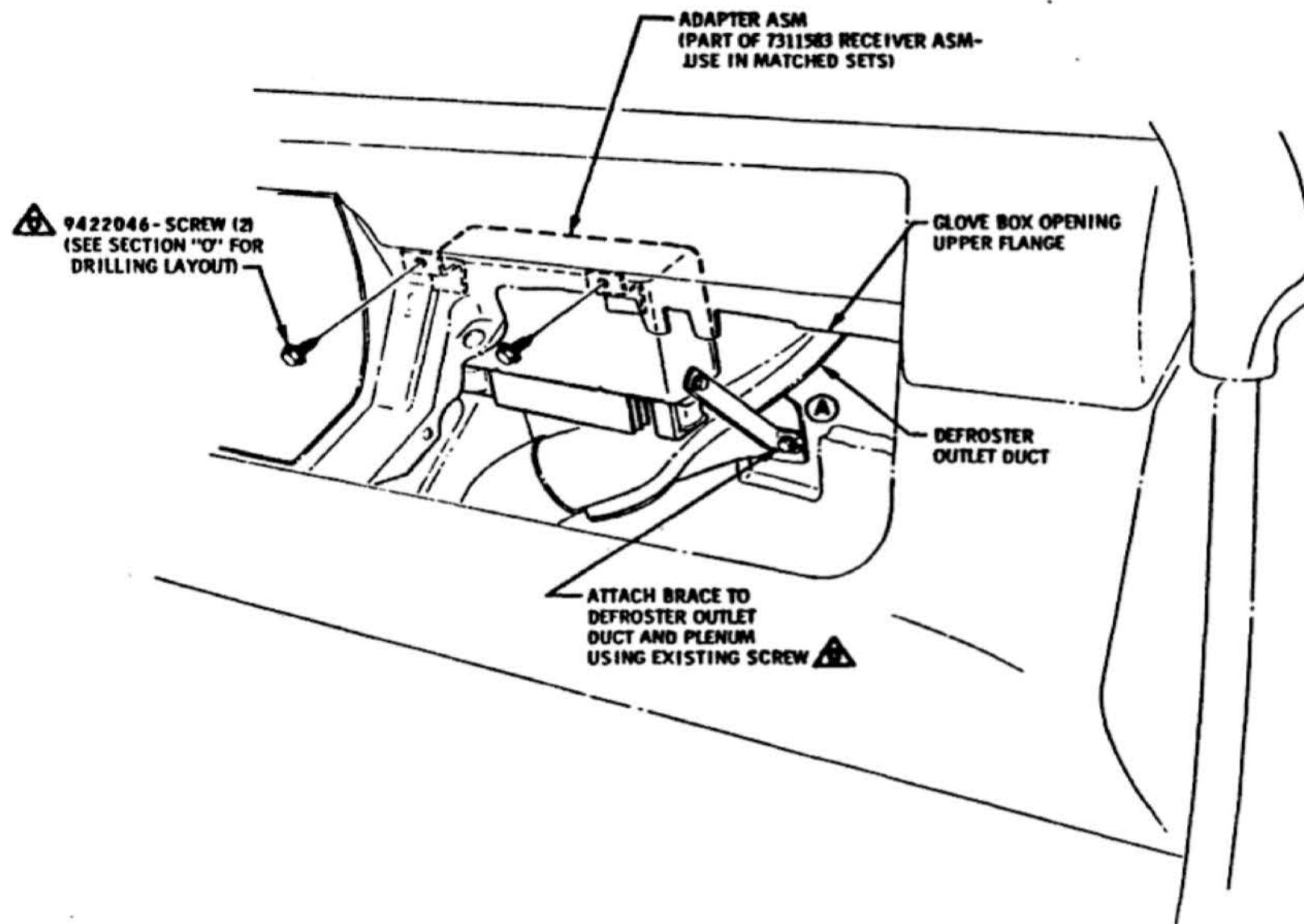
										TITLE CONSOLE - AT FLOOR SHIFT									
										DATE JAN. 10 1968		FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 1-1		PAGE 316	
										DR. BY JOSEPH V. GALL		REF. 35055		SERIES A-B-E		PART NO. 401900-1-2			
										CHECKED [Signature]									
										APPR. [Signature]									
										APPR. [Signature]									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.



NOTE:
FOR CARPET CUTOUT INFORMATION,
SEE SECTION 9, (1 1/2" CAR ONLY).

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

				9-26-68	D	403876-INSULATION NO. MOVED TO PAGE 11E	DATE	DEC. 29, 1967	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	1-1	PAGE	317	
				6-26-68	C2	WAS 9420721-SCREW	DR. BY	JOSEPH V. GALL	REF.	35055	SERIES	A-B-E	PART NO. 401900-1-2			
				6-6-68	B	WAS 9427329-SCREW	CHECKED	JVM								
				11-8-68	E	WAS 9420721-SCREW	APPR.	JE								
				5-10-68	A	INSULATION ADDED	APPR.	JE								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM



FOR OTHER INFORMATION REQUIRED FOR THIS INSTALLATION, SEE THE FOLLOWING DRAWINGS:

- FRONT SPEAKER- SECTION 1-1
- RADIO INSTALLATION- SECTION 1-3
- ANTENNA CABLE ROUTING- SECTION 12
- ANTENNA INSTALLATION- SECTION 11
- RADIO TO ADAPTER AND SPEAKER WIRE ROUTING- SECTION 12

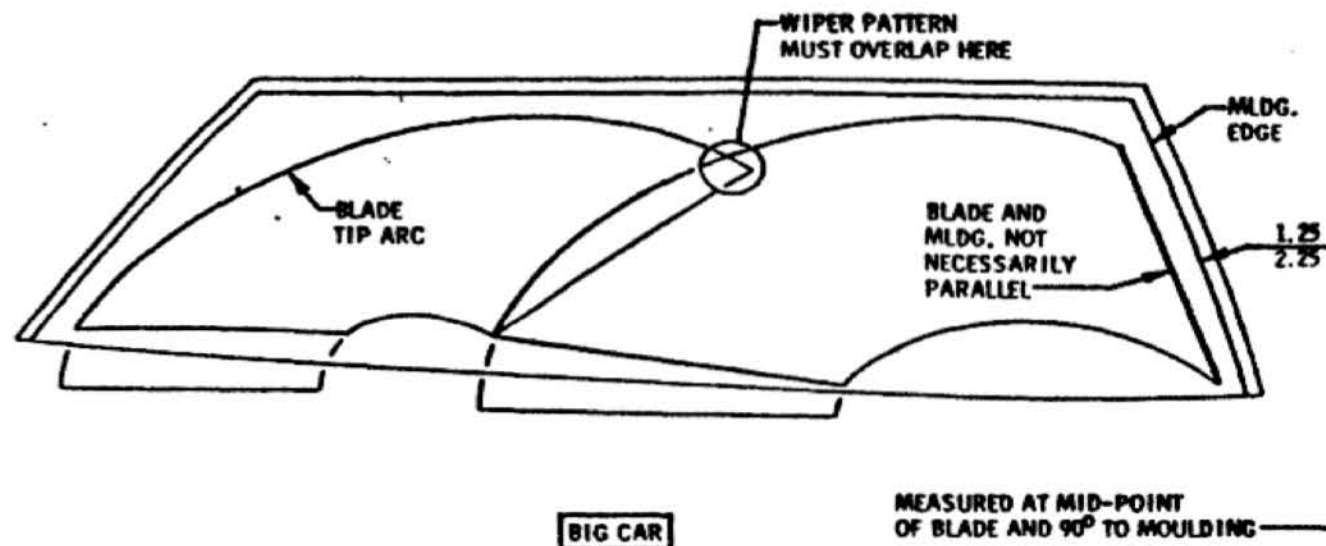
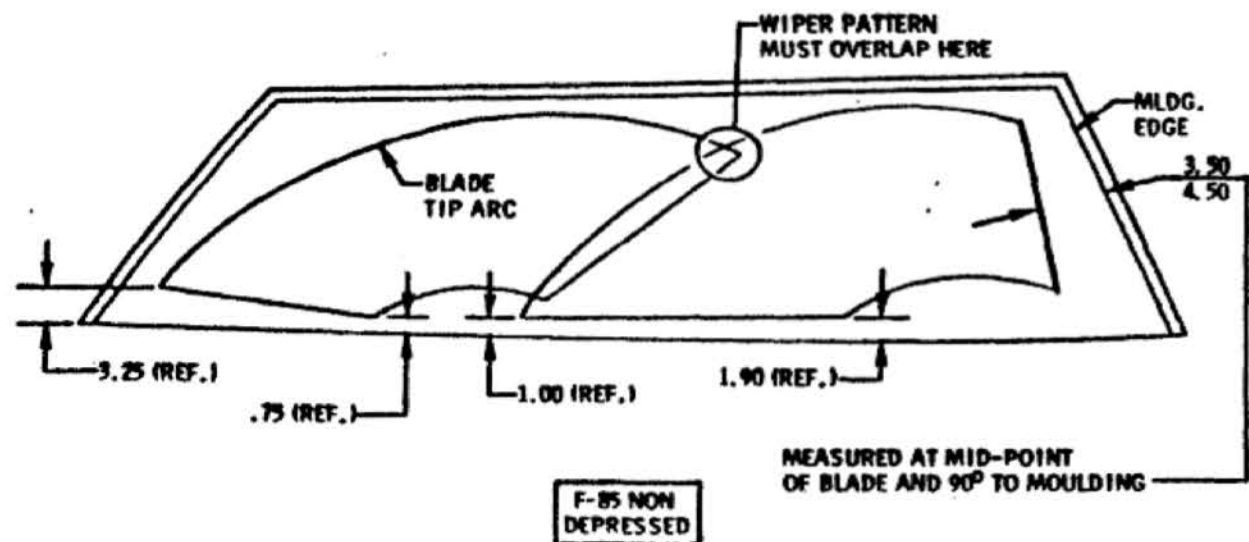
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

												TITLE				STEREOPHONIC RADIO ADAPTER MOUNTING									
												DATE <i>JULY 2, 1968</i>				FIRST USED		1969		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
												DR BY <i>ED J. ROE</i>								1-1		320			
												CHECKED <i>M. Bamhart</i>				REF.		35U58		SERIES		PART NO.			
												9-10-68 A BRACE REVISED TO DETAIL <i>2/20/73</i>				APPR.				A		401900			
												APPR. <i>fu 7/10/68</i>													
DATE	SYM	REVISION	DR	CK.	DATE	SYM	REVISION	DR	CK.	DATE	SYM	REVISION	DR	CK.	DATE	SYM	REVISION	DR	CK.	DATE	SYM	REVISION			

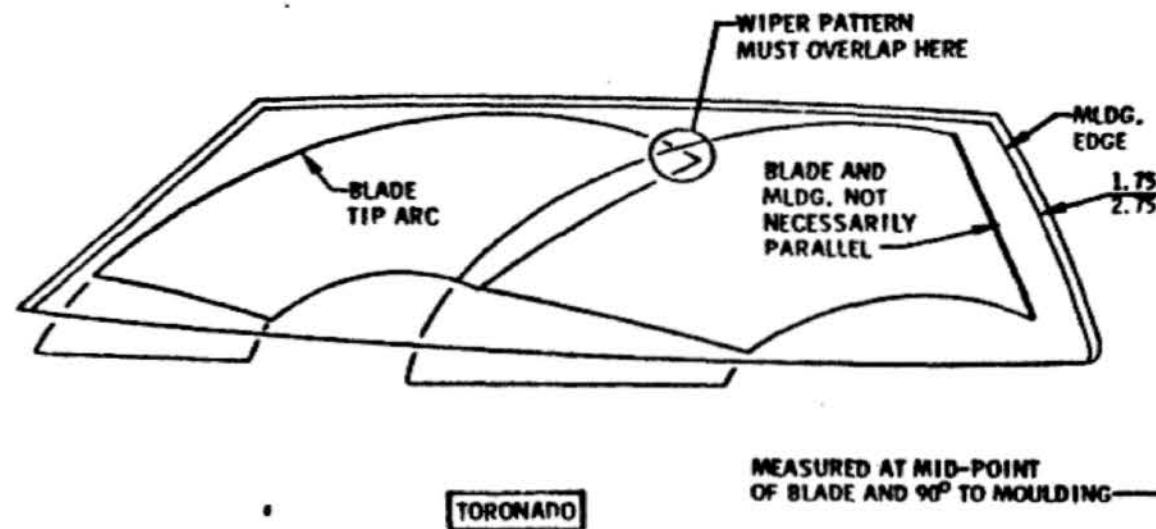
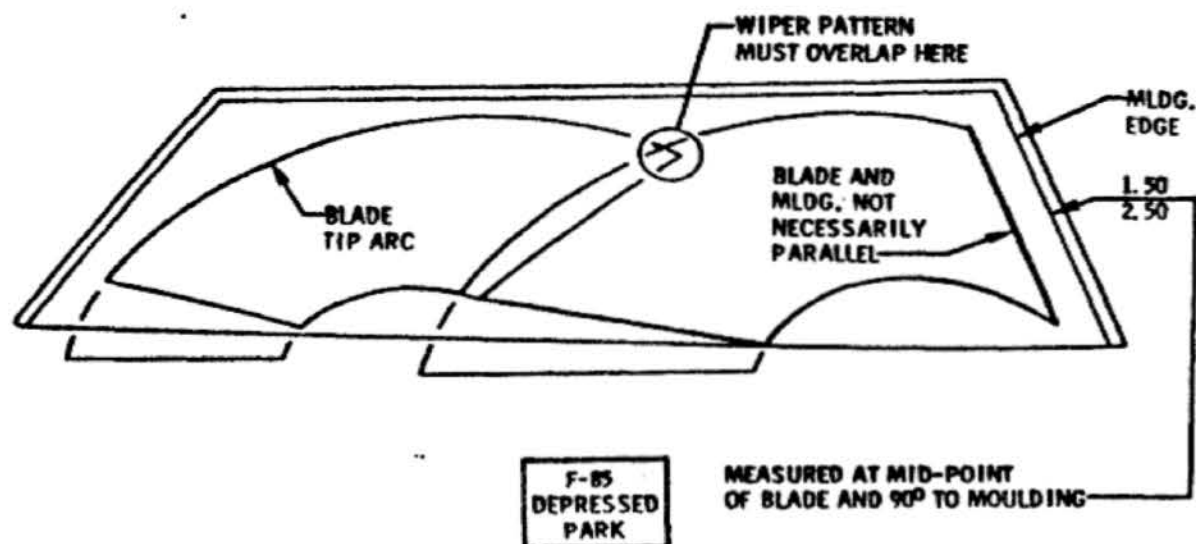


SECTION 1-2 FRONT OF DASH

- 100** **CHART**
- 110** **DASH COMPONENTS AND WINDSHIELD
WIPER INSTALLATION**
- 210** **AIR CONDITIONING DASH COMPONENTS**
- 400** **EXPORT HEATER DELETE COVERS**



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

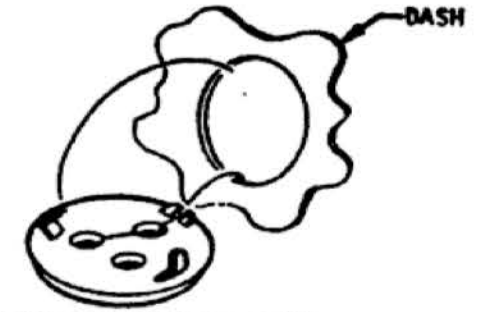
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TITLE		CHART - WIPER BLADE PATTERNS			
DATE	DR BY	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
MAR 23 1968	BEAUDOIN	1969		1-2	100
CHECKED	APPR.	REF.	SERIES	PART NO.	
JTF	JTF	17-11	A-B-C-E	401900-1-2	

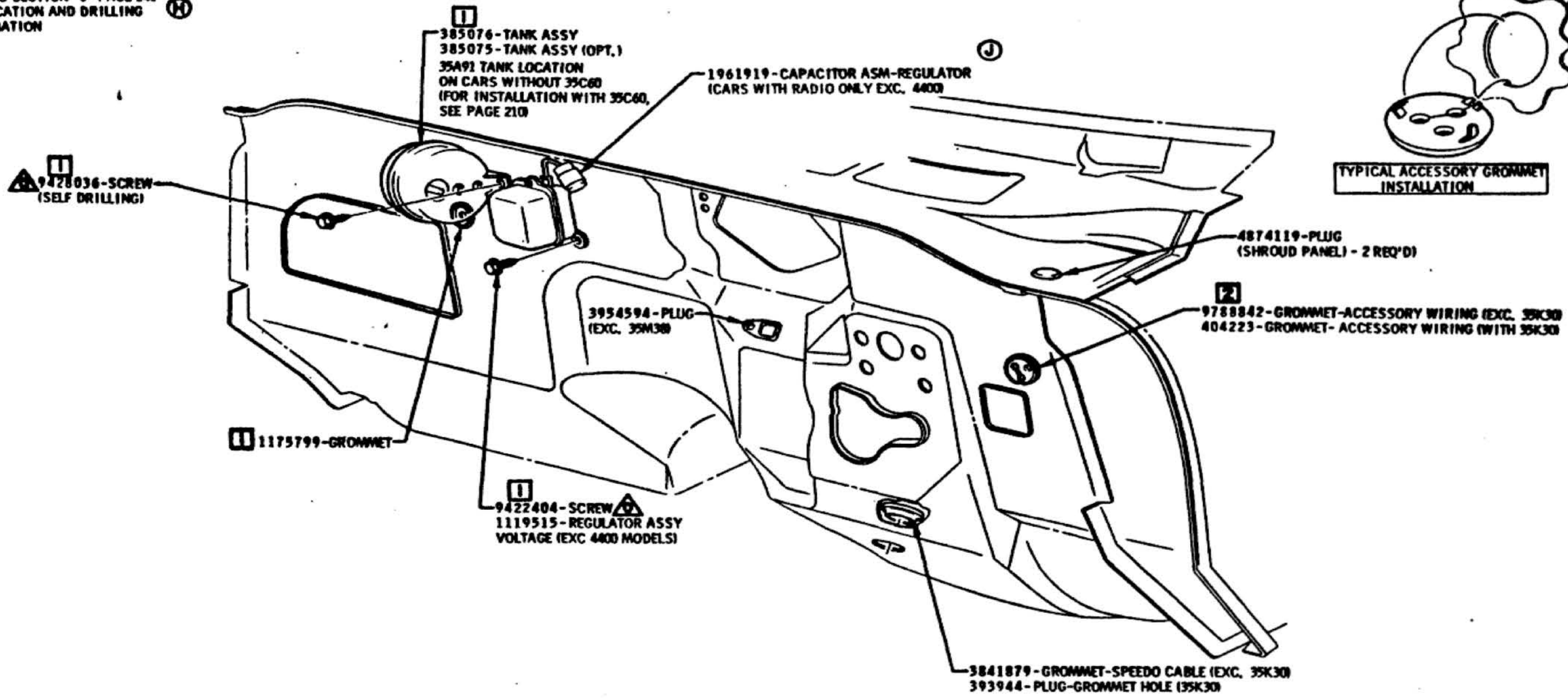
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

© GENERAL MOTORS

- 1 REFER TO SECTION "D" PAGE 140 FOR LOCATION AND DRILLING INFORMATION
- 2 REFER TO SECTION "D" PAGE 141 FOR LOCATION AND DRILLING INFORMATION



TYPICAL ACCESSORY GROMMET INSTALLATION

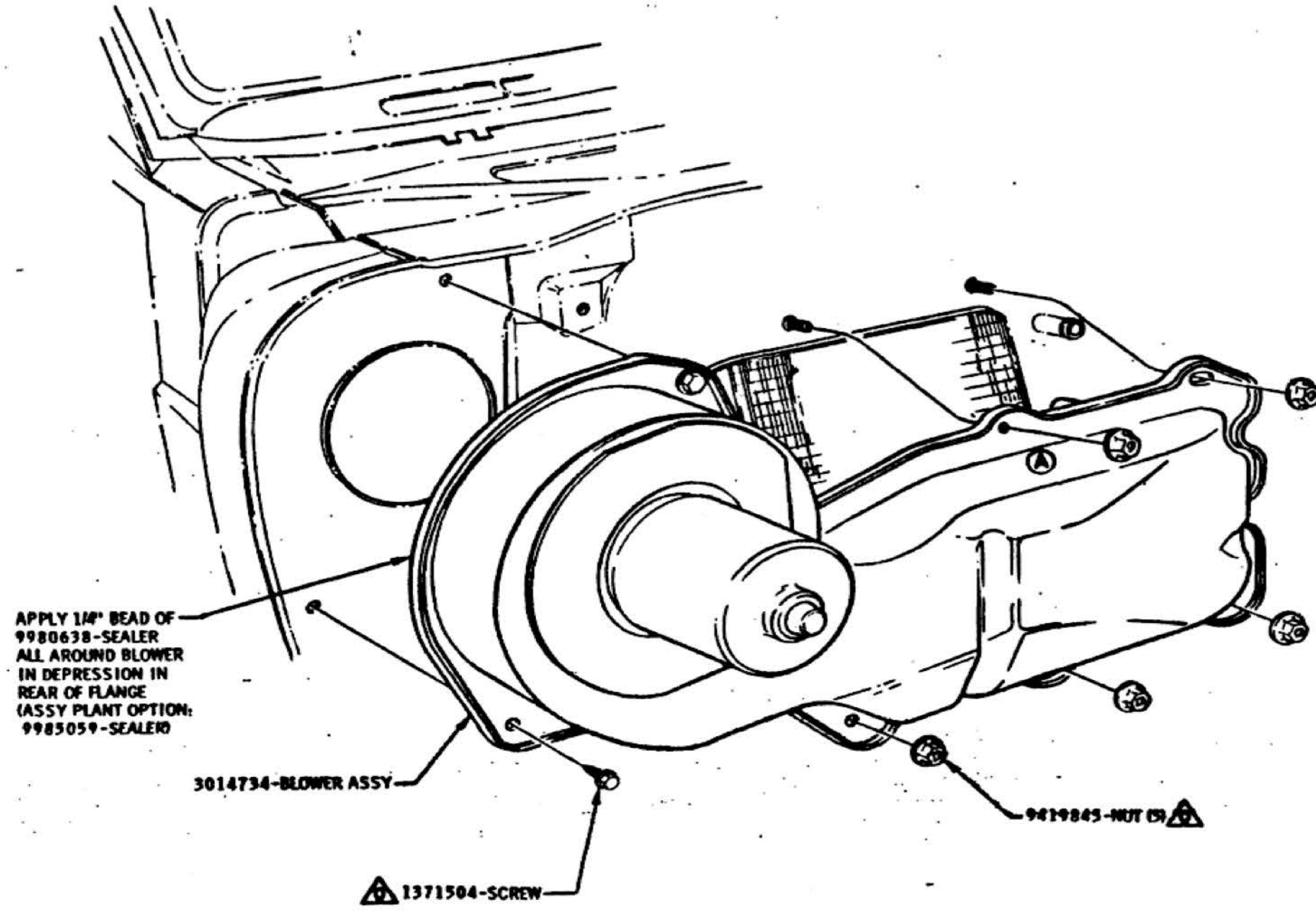



⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

(K) NOTE
FOR DASH PANEL SEALING
SEE PAGE 111.

1-18-68	K	SEALING NOTES MOVED TO 10	J13 DT 6-12-68	E	35K30 GROMMET ADDED	J13 DT	TITLE	DASH COMPONENTS - STANDARD CAR AND 35A91 VACUUM TANK
11-18-68	J	4400 EXCEPTION ADDED	J13 DT 6-7-68	D	PLUG ADDED	J13 DT	DATE	JAN. 17, 1969
12-2-68	H	NOTES & SYMBOLS ADDED	J13 DT 3-4-68	C	VIEW ADDED	J13 DT	DR. BY	BOYER
3-5-68	G	NOTE ADDED	J13 DT 3-4-68	B	WAS 392199 GROMMET	J13 DT	CHECKED	APPR. 5/12/68
7-29-68	F	PART NO. ADDED	J13 DT 7-1-68	A	NOTE REVISED	J13 DT	APPR.	5/12/68

FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	1-2	PAGE	110
SERIES	A	PART NO.	401900			



 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

										TITLE		HEATER BLOWER				
										DATE	NOV. 12, 1967	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
										DR. BY	B. PARKER	REF.	188C	INFORMATION MANUAL	1-2	113
										CHECKED	<i>[Signature]</i>	SERIES	A	PART NO.	401900	
										APPR.	H. SCHATTNER					

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.
 10-15 LB. FT. **B**

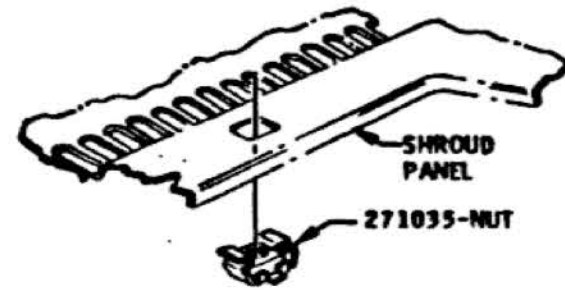
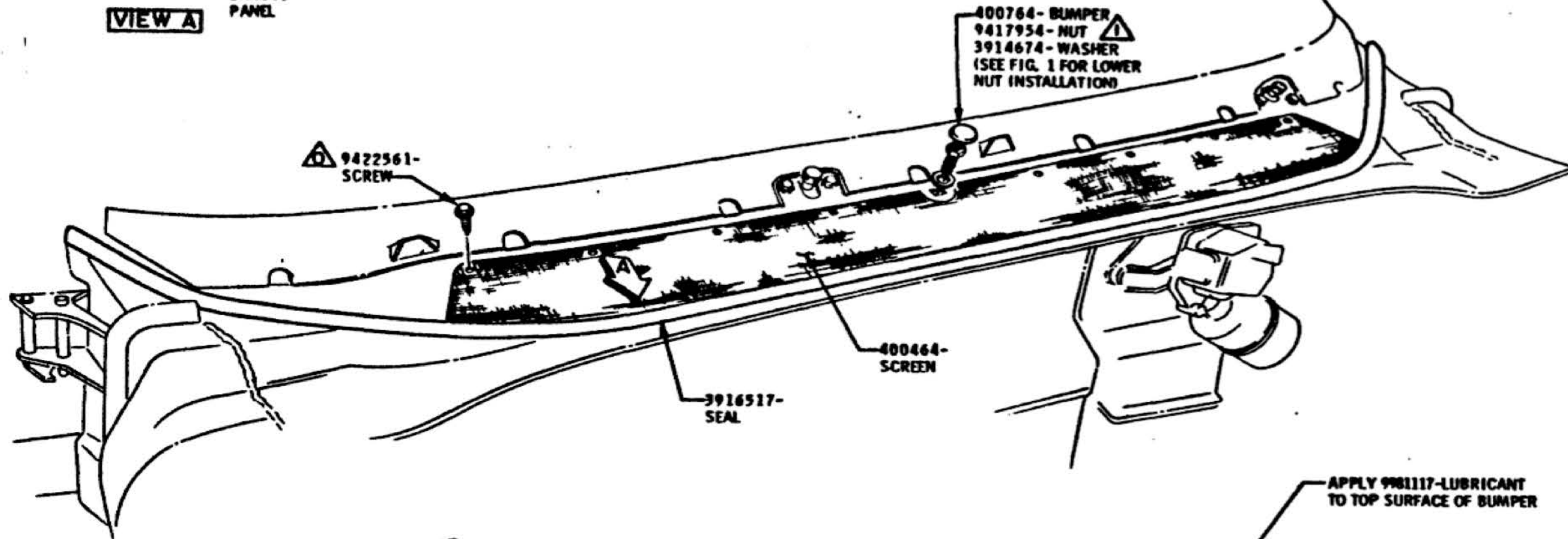
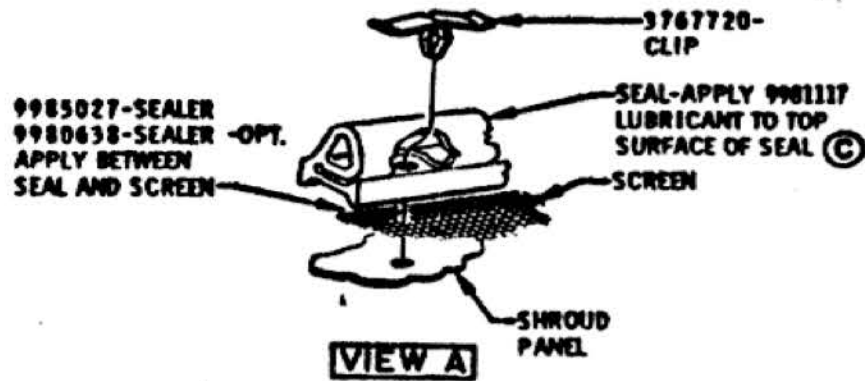
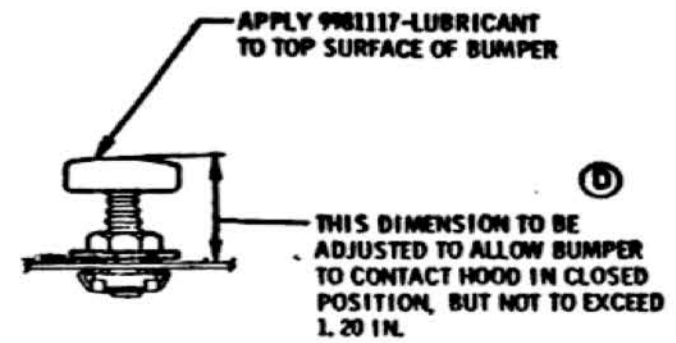


FIGURE 1
NUT INSTALLATION



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 SEC.	PAGE
																		SHROUD VENT SCREEN, SEAL, & HOOD REAR BUMPER	1969	1-2	115	
					9-27-68	D	ADJUSTMENT NOTE REV.	18	DT									DATE JAN. 20 1968				
					9-4-68	C	LUBRICANT ADDED	18	DT									DR. BY BEAUDOIN				
					3-30-68	B	TORQUE REVISED	18	DT									CHECKED [Signature]				
					9-30-68	A	WAS 9420760-WASHER	18	DT									APPR. [Signature]	RET. 1A2C, 1A2D,	SERIES A	PART NO. 401900	
																		APPR. [Signature]				

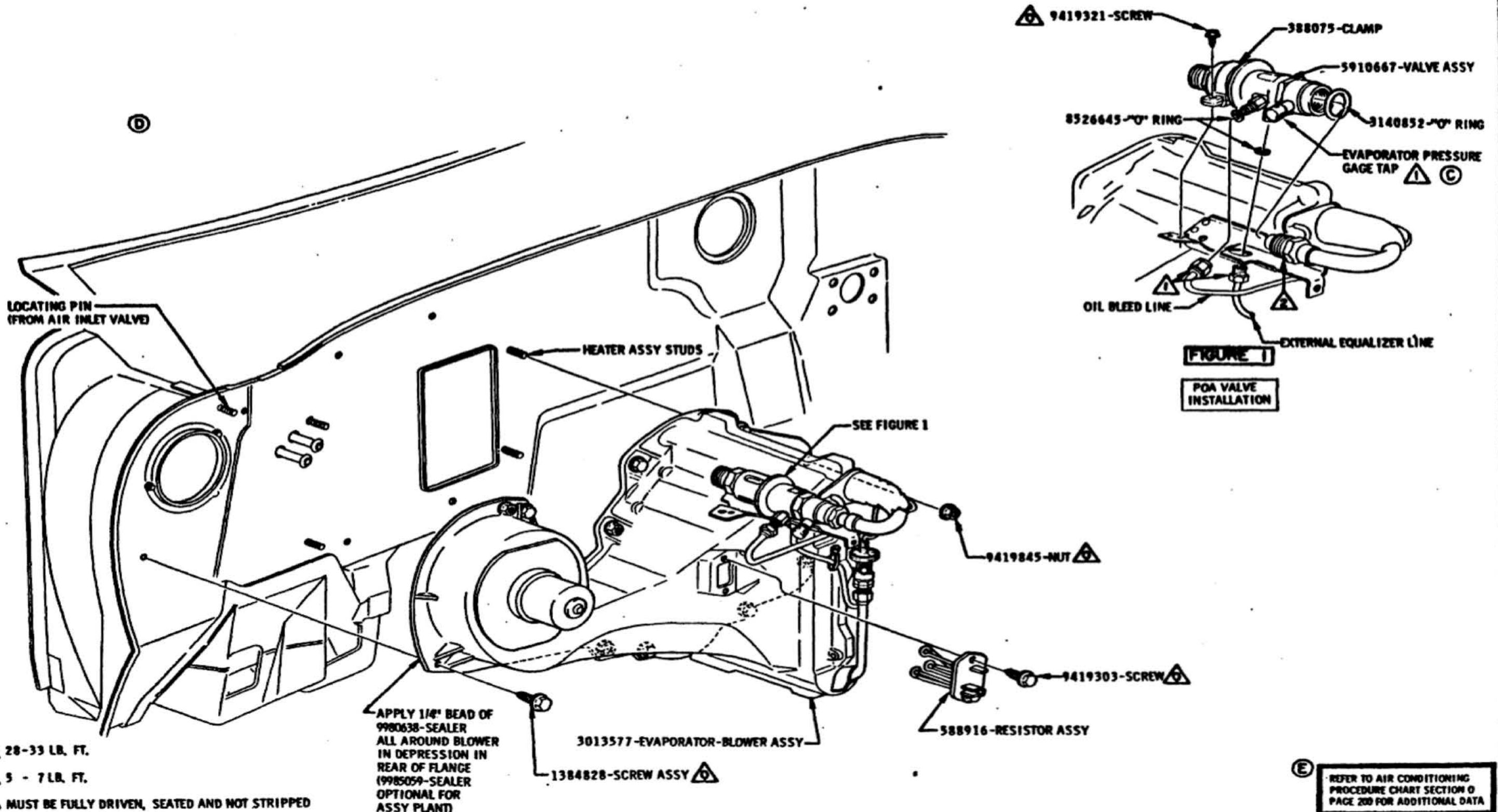


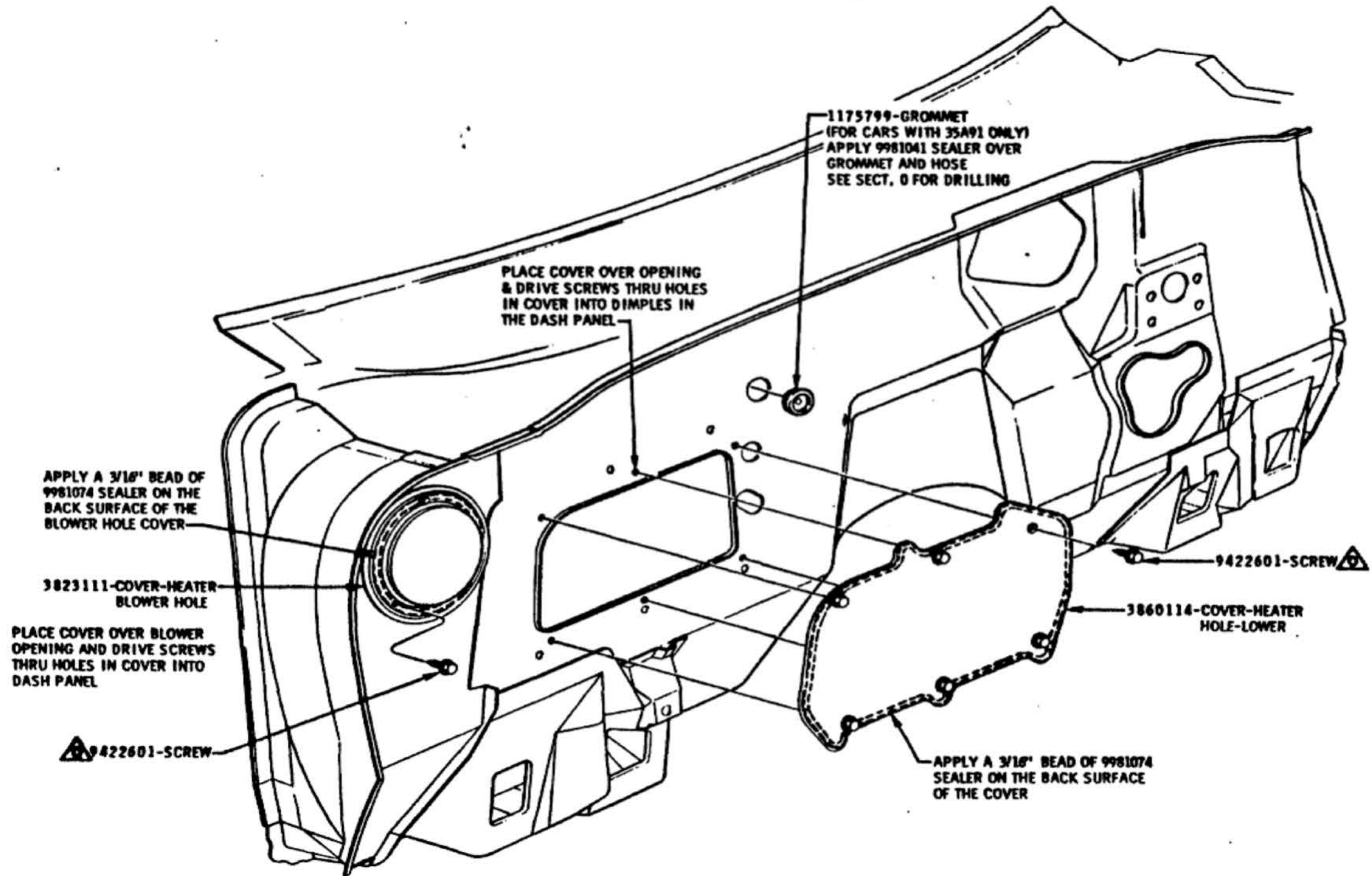
FIGURE 1
POA VALVE
INSTALLATION

- 28-33 LB. FT.
- 5 - 7 LB. FT.
- MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

APPLY 1/4" BEAD OF 9980638-SEALER ALL AROUND BLOWER IN DEPRESSION IN REAR OF FLANGE (9985059-SEALER OPTIONAL FOR ASSY PLANT)

REFER TO AIR CONDITIONING PROCEDURE CHART SECTION O PAGE 200 FOR ADDITIONAL DATA

REVISIONS				TITLE		DASH PANEL A/C COMPONENTS	
1-20-69	E	NOTE ADDED	PL	DR	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL MANUAL REC. PAGE 1-2 215 SERIES A PART NO. 401900
12-15-68	D	SEALING VIEW ADDED TO III	PL	DR	DEC. 9, 1967	1969	
9-18-68	C	TORQUE ADDED	PL	DR	DR. BY B. PARKER	REV. 9560	
3-18-68	B	REVISED + REDRAWN	PL	DR	CHECKED J. [unclear]		
1-21-68	A	WAS 1386251-SCREW	PL	DR	APPR. K.E. [unclear]		



⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

EXPORT ONLY (77C48 - 98C48)

										TITLE		HEATER HOLE COVERS (CARS WITHOUT HEATERS)				
										DATE	JAN. 20, 1968	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
										DR. BY	130YER	REF		INFORMATION MANUAL	1-2	400
										CHECKED	JTH			SERIES	A	PART NO.
										APPR.	1/22/68				401900	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	



SECTION 1-3 INSTRUMENT PANEL

- 110 INSTRUMENT PANEL COMPONENTS
- 210 AIR CONDITIONING COMPONENTS
- 320 RADIO

DATE 6-17-68

MANUAL NO. 401900

SERIES A

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

MODEL S	EXPORT (KILOS)								DOMESTIC (MILES)								S T D.
	CKD.	CKD.	CKD.	CKD.	SUP.	SUP.	SUP.	SUP.	U15 WITH M38, M40 EXCEPT D55	U15 WITH M31 EXCEPT D55	U15 WITH M31, M38, M40 WITH D55	U15 EXCEPT M31, M38, M40	M38, M40 EXCEPT D55	M31 EXCEPT D55	M31, M38, M40 WITH D55		
3177	--	RH	--	RG	--	--	--	--	--	RE	--	RD	--	RB	--	RA	
3277	RJ	RH	--	RG	--	--	--	--	RF	RE	--	RD	RC	RB	--	RA	
35 35	--	RH	--	RG	--	--	--	--	--	RE	--	RD	--	RB	--	RA	
35 39	--	RH	--	RG	RH	--	--	RG	--	RE	--	RD	--	RB	--	RA	
35 67	--	RH	RG	RG	--	--	--	--	--	RE	RD	RD	--	RB	RA	RA	
35 69	--	RH	--	RG	--	--	--	--	--	RE	--	RD	--	RB	--	RA	
35 77	--	RH	RG	RG	--	--	--	--	--	RE	RD	RD	--	RB	RA	RA	
35 87	--	RH	RG	RG	RH	$\frac{7}{7}$	RG	RG	--	RE	RD	RD	--	RB	RA	RA	
36 35	RJ	RH	--	RG	--	--	--	--	RF	RE	--	RD	RC	RB	--	RA	
36 39	RJ	RH	--	RG	RH	RJ	--	RG	RF	RE	--	RD	RC	RB	--	RA	
36 67	RJ	RH	RG	RG	--	--	--	--	RF	RE	RD	RD	RC	RB	RA	RA	
36 69	RJ	RH	--	RG	RH	RJ	--	RG	RF	RE	--	RD	RC	RB	--	RA	
36 77	RJ	RH	RG	RG	--	--	--	--	RF	RE	RD	RD	RC	RB	RA	RA	
36 87	RJ	RH	RG	RG	--	--	--	--	RF	RE	RD	RD	RC	RB	RA	RA	
42 39	RJ	--	--	RG	--	RJ	--	RG	RF	--	--	RD	RC	--	--	RA	
42 69	RJ	--	--	RG	--	--	--	--	RF	--	--	RD	RC	--	--	RA	
42 87	RJ	--	RG	RG	--	RJ	RG	RG	RF	--	RD	RD	RC	--	RA	RA	
44 67	RJ	--	RG	RG	--	--	--	--	RF	--	RD	RD	RC	--	RA	RA	
44 77	RJ	--	RG	RG	--	--	--	--	RF	--	RD	RD	RC	--	RA	RA	
44 87	RJ	--	RG	RG	--	--	--	--	RF	--	RD	RD	RC	--	RA	RA	
48 55	RJ	--	--	RG	--	--	--	--	RF	--	--	RD	RC	--	--	RA	
48 65	RJ	--	--	RG	--	--	--	--	RF	--	--	RD	RC	--	--	RA	

IDENT. CODE	PART NO.	CALIB.
RA	6491465	MILES
RB	6491466	MILES
RC	6491467	MILES
RD	6491468	MILES
RE	6491469	MILES
RF	6491470	MILES
RG	6491471	KILOS ★
RH	6491472	KILOS ★
RJ	6491473	KILOS ★

★ KILOS CLUSTERS ARE ALL SAFETY SENTINEL

TO READ CHART:

READING CHART FROM LEFT TO RIGHT, THE FIRST OPTION REACHED THAT IS SATISFIED WILL INDICATE THE CLUSTER TO BE USED ON THE MODEL CONSIDERED. IF NONE OF THE CONDITIONS ABOVE ARE SATISFIED, THE LAST COLUMN IS STANDARD EQUIPMENT AND THAT COLUMN WILL INDICATE THE CLUSTER TO BE USED ON THAT MODEL.

OPTION CODE DESIGNATIONS

D55 IS FRONT COMPARTMENT CONSOLE
M31 IS JETAWAY TRANSMISSION - FIXED STATOR
M38 IS AUTOMATIC TRANSMISSION (3 SPEED) FOR 350 CUBIC INCH ENGINES
M40 IS AUTOMATIC TRANSMISSION (3 SPEED) FOR 350 & 400 CUBIC INCH ENGINES
U15 IS SAFETY SENTINEL
97 & 98U18 ARE EXPORT KILOS CLUSTER

TITLE CHART - INSTRUMENT CLUSTER USAGE										DATE <u>JULY 12, 1968</u>		FIRST USED <u>1969</u>		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. <u>1-3</u> PAGE <u>100</u>			
DR. <u>BOB HOLT</u>										CHECKED <u>J. Pines</u>		SERIES <u>A</u>		PART NO. <u>404357</u>					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

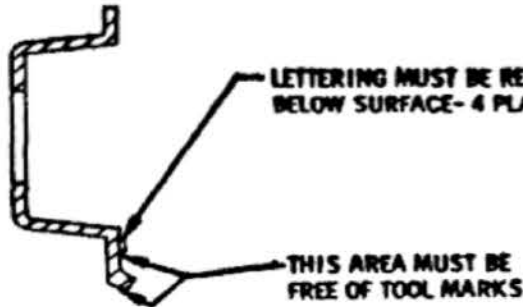
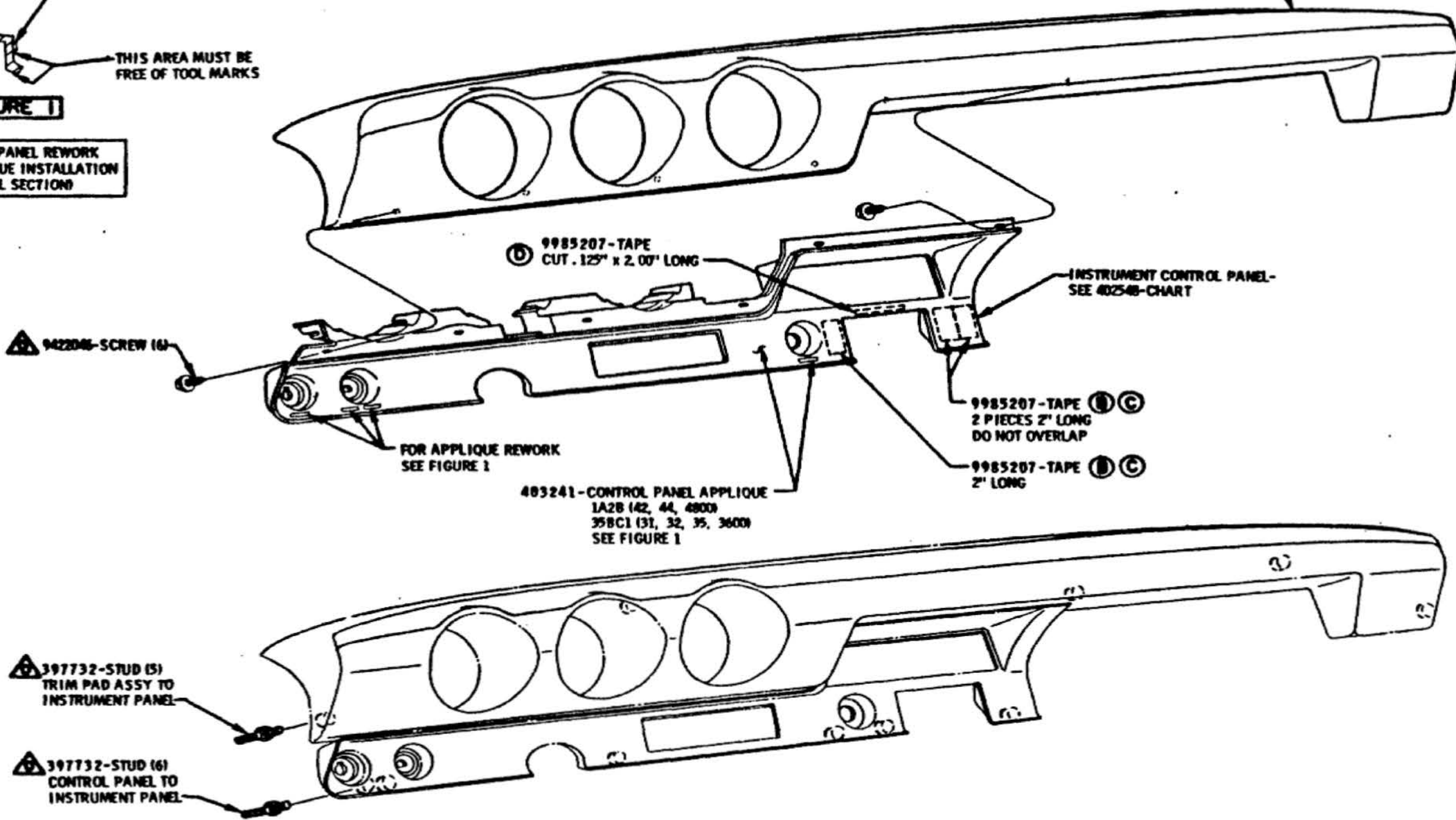


FIGURE 1

CONTROL PANEL REWORK FOR APPLIQUE INSTALLATION (TYPICAL SECTION)

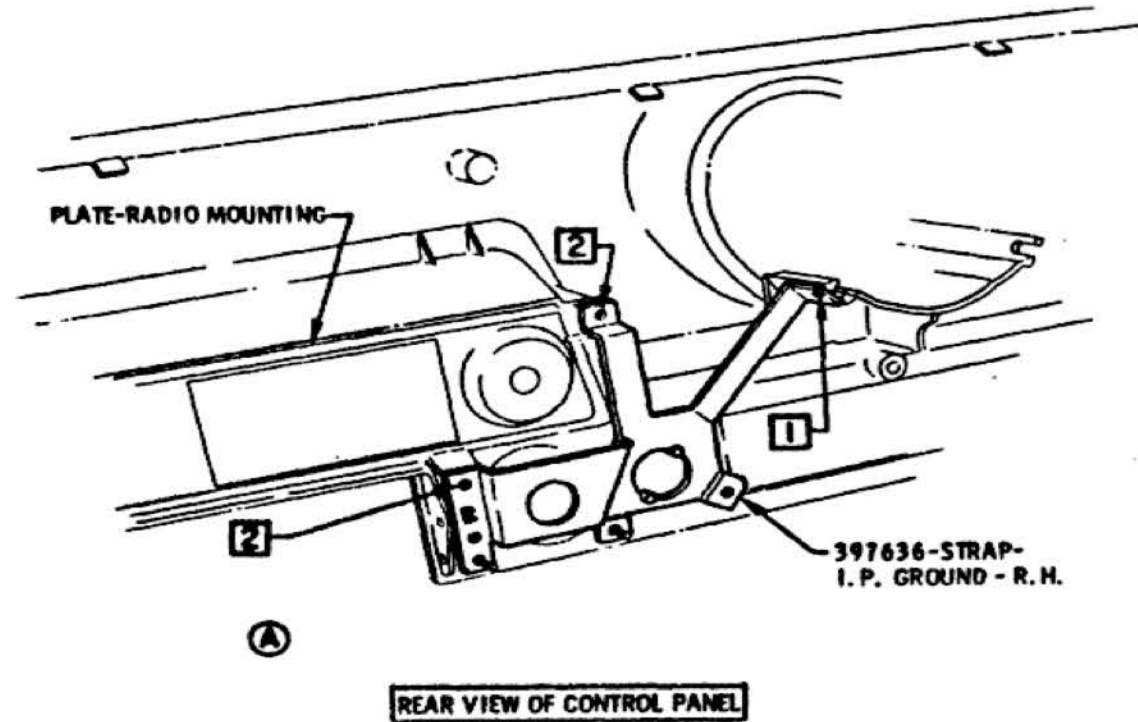
PAD ASSY-SEE 397729-CHART (EXCEPT 35C56, 35C60, 67 AND 87 MODELS)
PAD ASSY-SEE 398258-CHART (35C56, 35C60, AND ALL 67, 87 MODELS)



⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

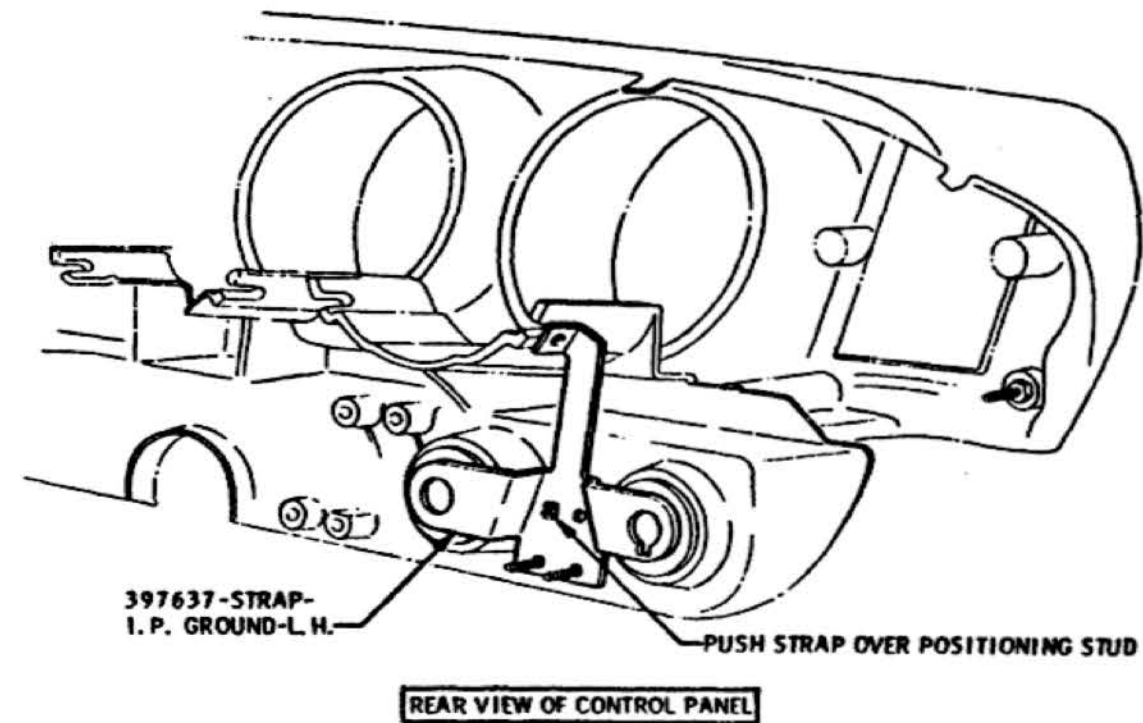
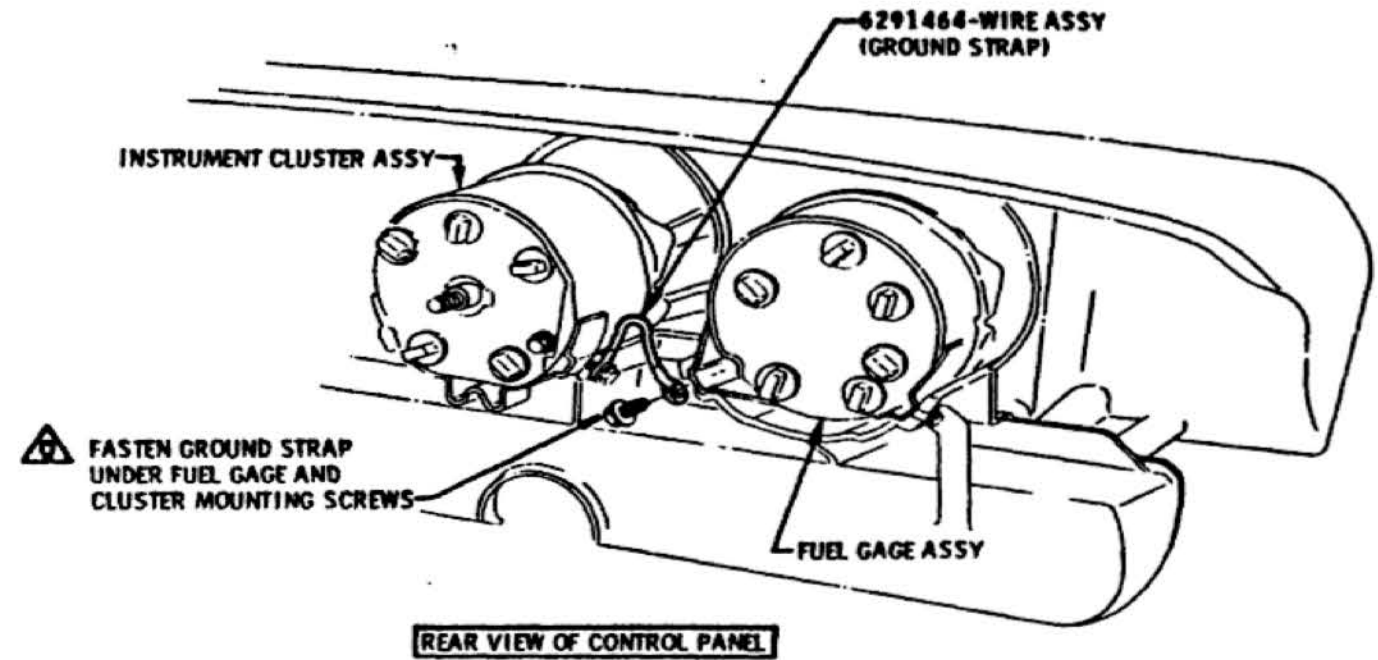
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
					10-1-68	D	9985207 TAPE ADDED								TRIM PAD ASSY TO CONTROL PANEL	1969	1-3	110	
					8-28-68	C ₁	WAS 9985204-TAPE								DATE JANUARY 17, 1968				
					7-28-68	B ₁	9985204-TAPE ADD.								DR. BY ED J. ROE				
					2-17-68	A	FIGURE 1 ADDED								CHECKED <i>WJ</i>				
															APPR. <i>Taylor</i>				
															APPR. <i>SMA</i> 1/26/68				
															REF. 1A2B	SERIES	PART NO.		
																A	401900		

NOTE: PLACE RADIO PLATE OR RADIO HOLE COVER MOUNTING TABS BETWEEN CONTROL PANEL AND GROUND STRAP.

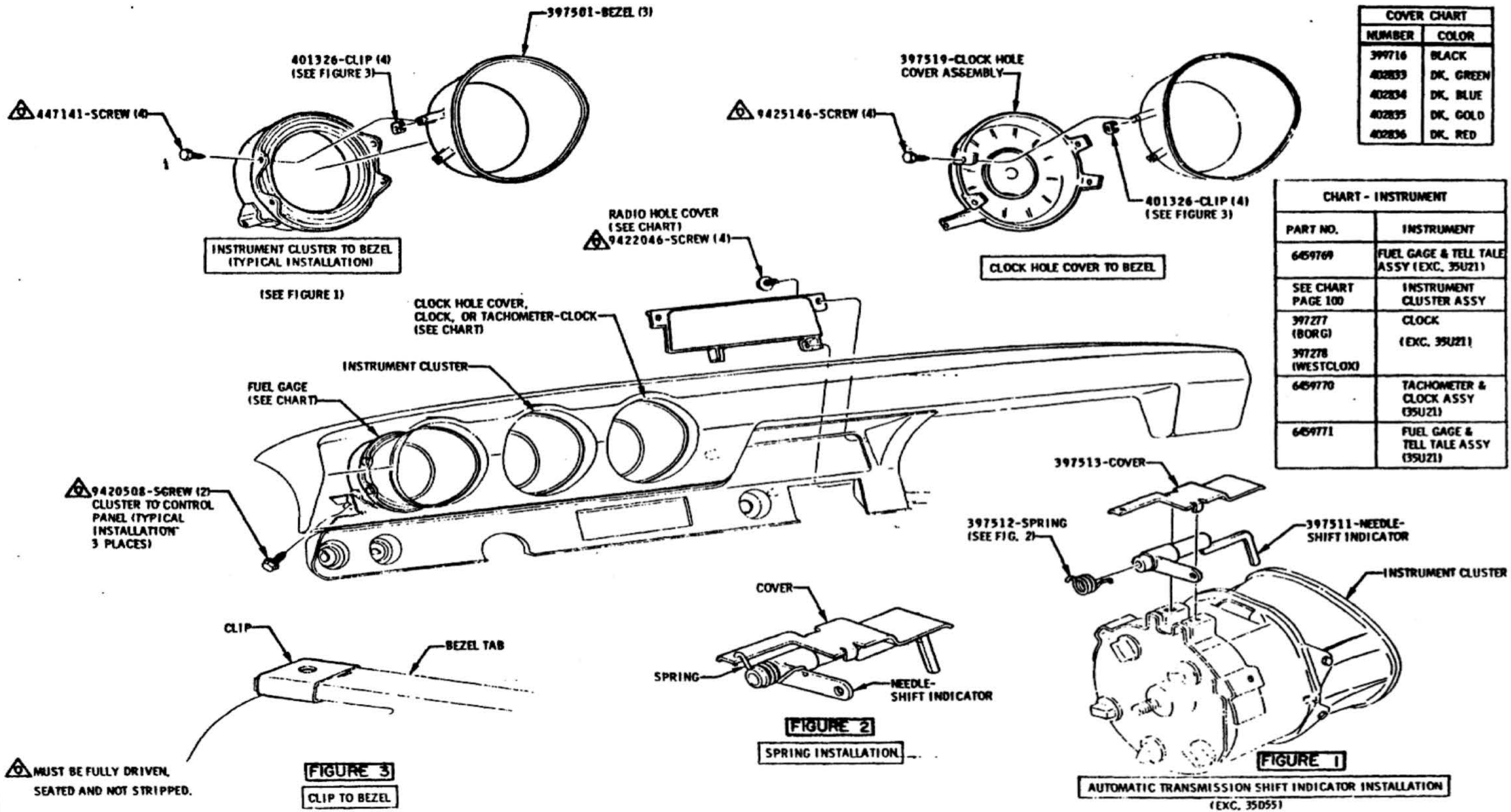


- 1 SECURED BY CLUSTER MOUNTING SCREW
- 2 SECURED BY RADIO PLATE SCREW

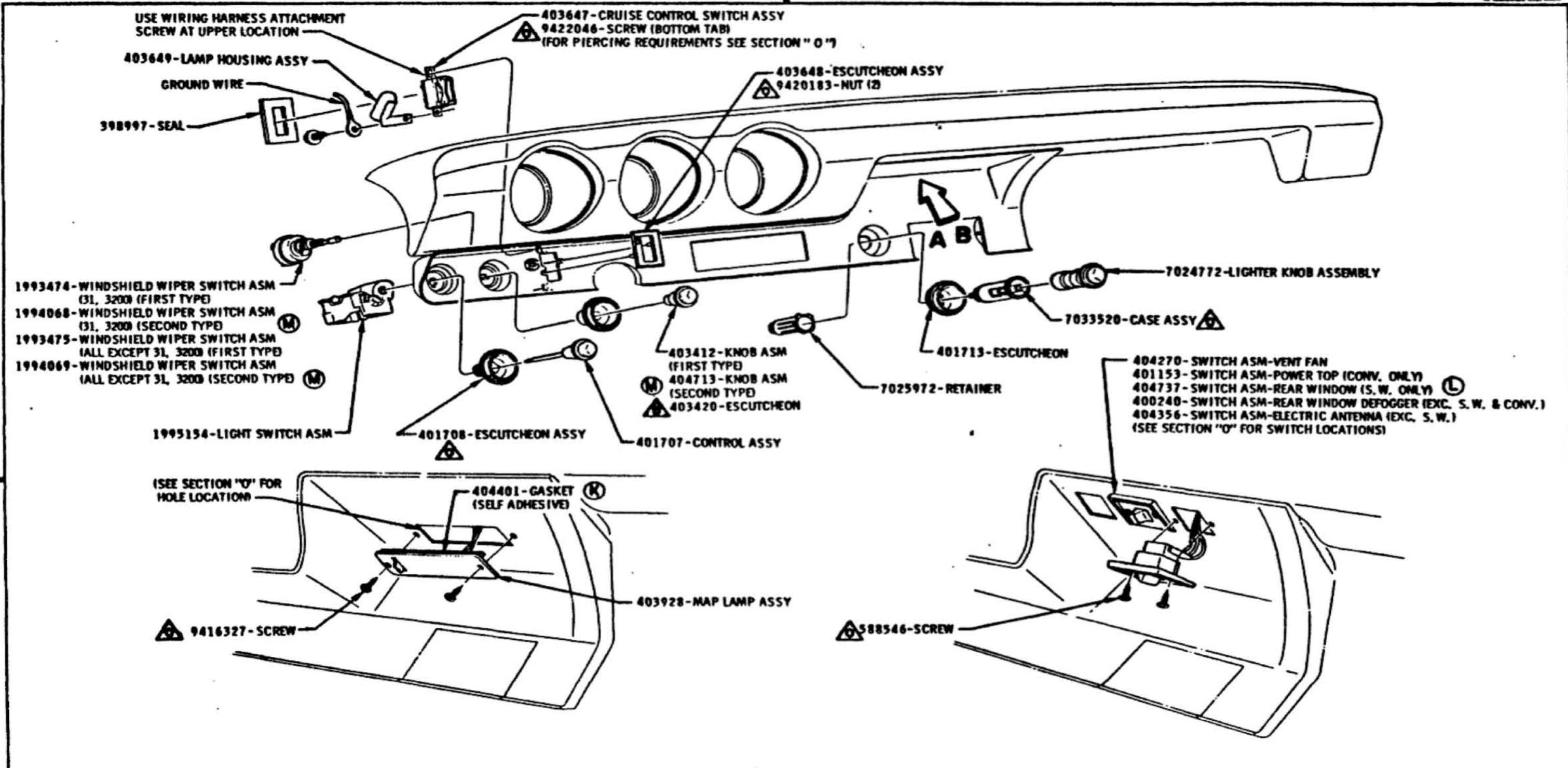
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.



										TITLE		GROUND STRAPS		DATE JANUARY 25, 1968		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE	
										DR. BY ED J. ROE		1969		INFORMATION MANUAL		1-3		III			
										CHECKED <i>[Signature]</i>		REV. 12N		SERIES		PART NO.		401900			
										APPR. <i>[Signature]</i>		12J		A							
										9-3-68 A NOTE REMOVED											
REVISION	DR. CK.	DATE	SYM.	REVISION	DR. CK.	DATE	SYM.	REVISION	DR. CK.	DATE	SYM.	DR. CK.	DATE	SYM.	DR. CK.	DATE	SYM.	DR. CK.	DATE	SYM.	



DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	TITLE	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
															CONTROL PANEL CLUSTERS AND COVERS	FEBRUARY 6, 1968	1969	120, 122, 35U21, USE	1-3	112	A	401900



USE WIRING HARNESS ATTACHMENT SCREW AT UPPER LOCATION

403649-LAMP HOUSING ASSY

GROUND WIRE

398997-SEAL

403647-CRUISE CONTROL SWITCH ASSY
9422046-SCREW (BOTTOM TAB)
(FOR PIERCING REQUIREMENTS SEE SECTION "O")

403648-ESCUTCHEON ASSY
9420183-NUT (2)

1993474-WINDSHIELD WIPER SWITCH ASM (31, 3200) (FIRST TYPE)
1994068-WINDSHIELD WIPER SWITCH ASM (31, 3200) (SECOND TYPE)
1993475-WINDSHIELD WIPER SWITCH ASM (ALL EXCEPT 31, 3200) (FIRST TYPE)
1994069-WINDSHIELD WIPER SWITCH ASM (ALL EXCEPT 31, 3200) (SECOND TYPE)

1995154-LIGHT SWITCH ASM

401708-ESCUTCHEON ASSY

403412-KNOB ASM (FIRST TYPE)
404713-KNOB ASM (SECOND TYPE)
403420-ESCUTCHEON

401707-CONTROL ASSY

7024772-LIGHTER KNOB ASSEMBLY

7033520-CASE ASSY

401713-ESCUTCHEON

7025972-RETAINER

404270-SWITCH ASM-VENT FAN
401153-SWITCH ASM-POWER TOP (CONV. ONLY)
404737-SWITCH ASM-REAR WINDOW (S.W. ONLY)
400240-SWITCH ASM-REAR WINDOW DEFOGGER (EXC. S.W. & CONV.)
404356-SWITCH ASM-ELECTRIC ANTENNA (EXC. S.W.)
(SEE SECTION "O" FOR SWITCH LOCATIONS)

(SEE SECTION "O" FOR HOLE LOCATION)

404401-GASKET (SELF ADHESIVE)

403928-MAP LAMP ASSY

9416327-SCREW

588546-SCREW

VIEW A

MAP LAMP INSTALLATION

VIEW B

ACCESSORY SWITCH LOCATION

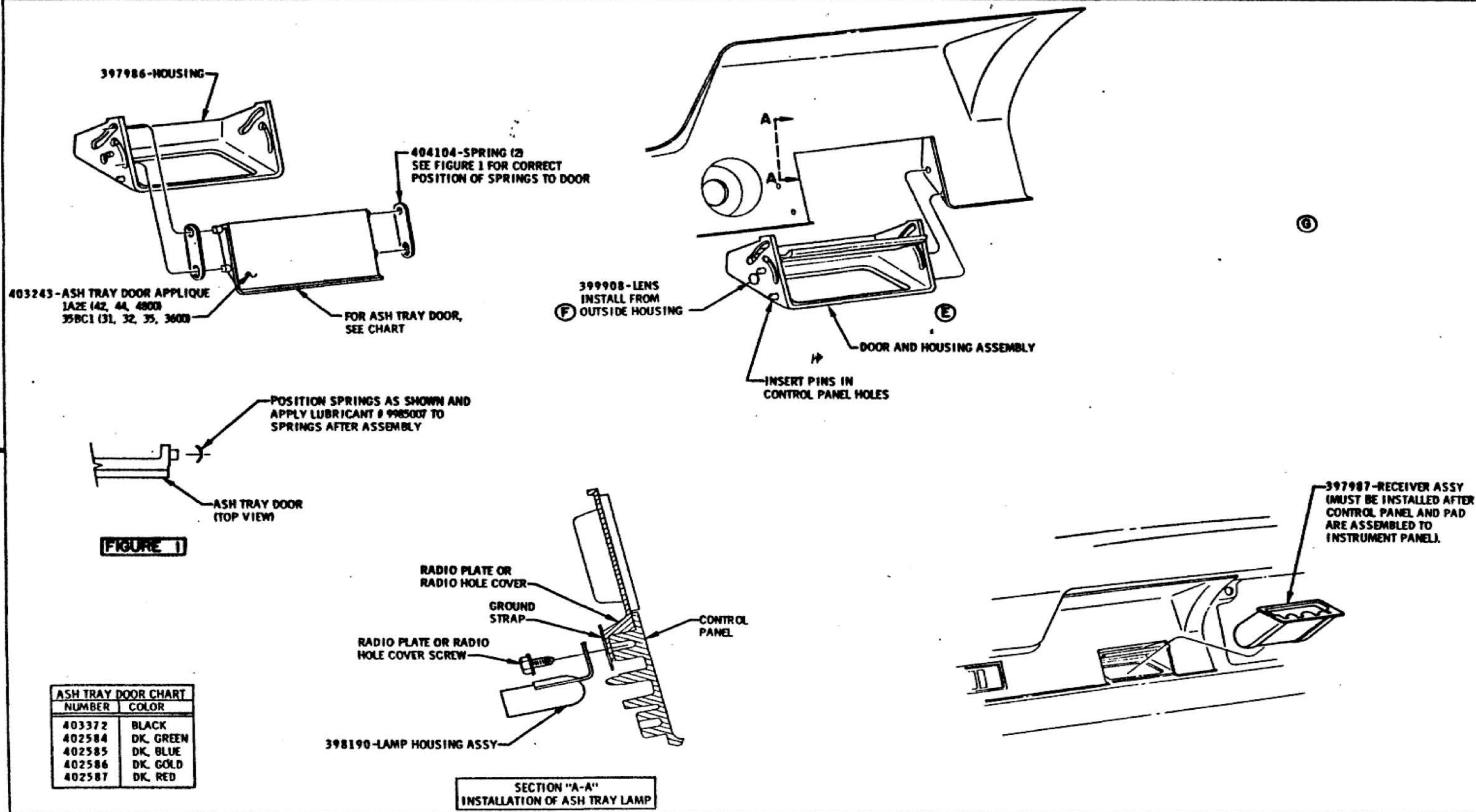
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	BY	REVISION	DR.	CK.	DATE	SYM.	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	
		9-9-68	K				404401-GASKET ADDED	EJR	PTS	6-24-68	E	398997-SEAL ADDED	EJR	PTS									SWITCHES AND ESCUTCHEONS	1969	1-3	113	
		7-26-68	J				WAS 386603-SWITCH	EJR	PTS	6-24-68	D	WAS 9419668-SCREW	EJR	PTS													
		7-8-68	H				WAS 1995154-SWITCH	EJR	PTS	4-9-68	C	PART NO. ADDED	EJR	PTS													
10-25-68	MS	SECOND TYPE ADDED	SA	PTS	6-24-68	G	WAS 400377-LAMP ASSY	SA	PTS	3-20-68	B	PART NOS ADDED	SA	PTS													
10-25-68	L	WAS 386601	SA	PTS	6-24-68	F	404270-SWITCH ASSY ADDED	SA	PTS	3-8-68	A	WAS 9420129-SCREW	EJR	PTS													

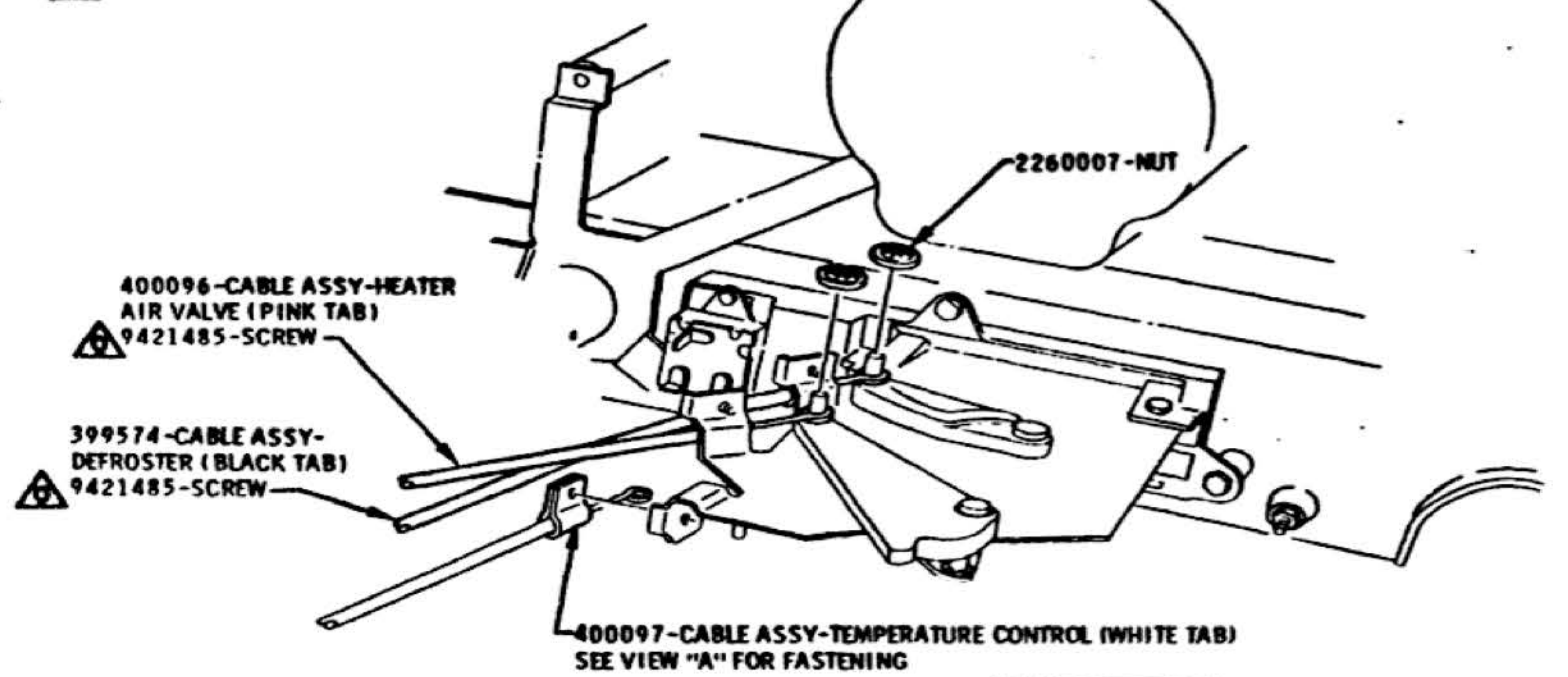
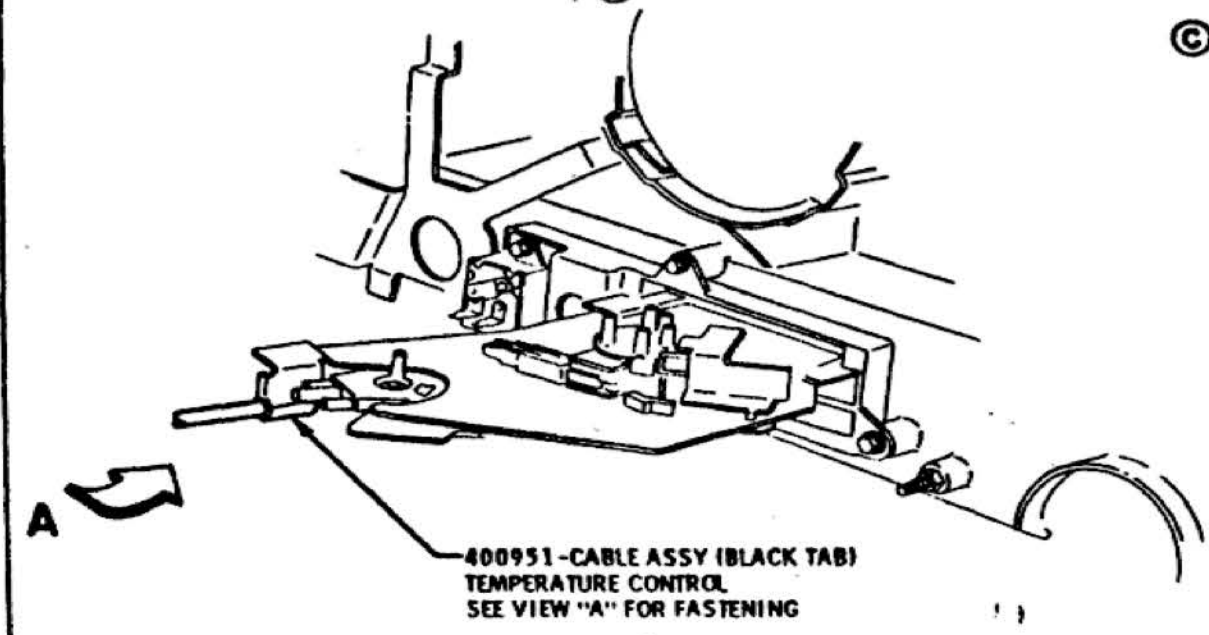
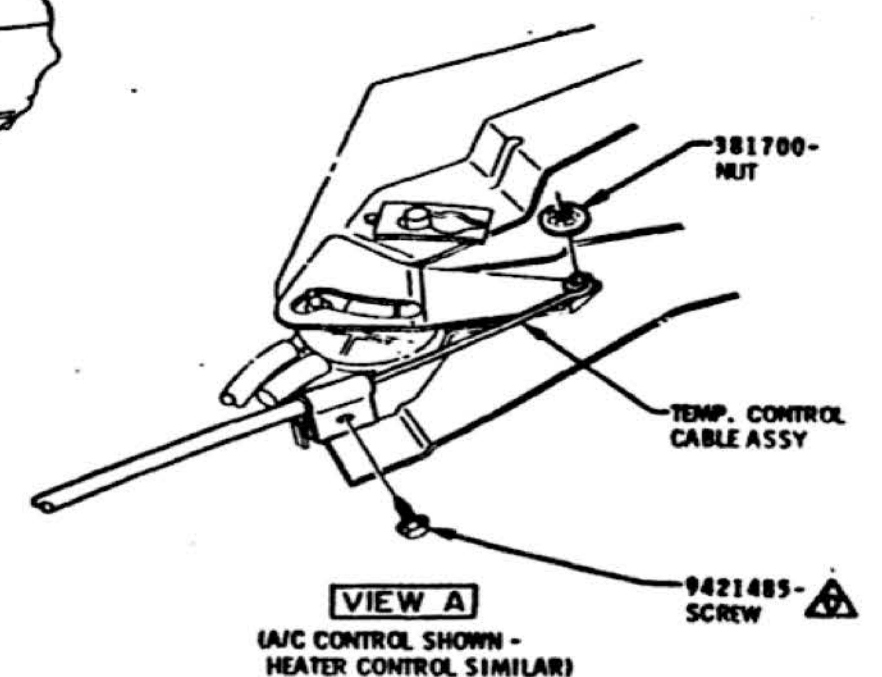
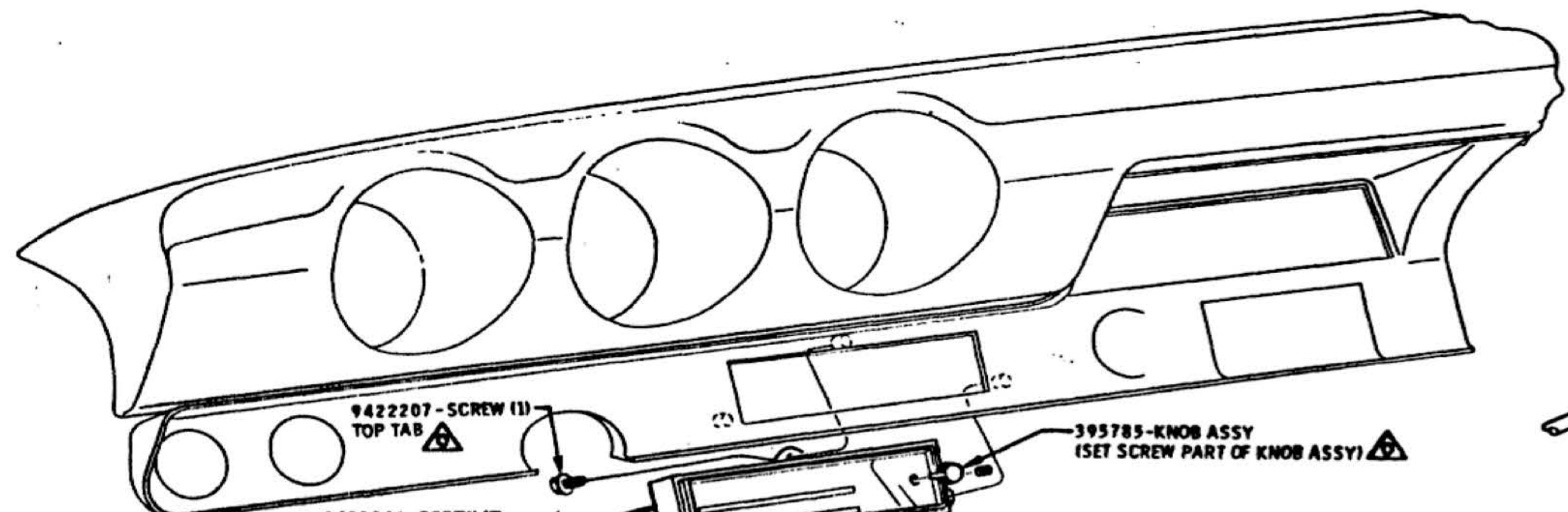
DATE FEBRUARY 19, 1968
DR. BY ED J. ROE
CHECKED [Signature]
APPR. [Signature]
REV. 1A3D
DEC 1964
SAAS, CO.
U20 U76

SERIES A

PART NO. 401900



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
															ASH TRAY	1969		1-3	114
					5-24-68	E	NO0911-CLIP REMOVED	SR	PPS						DATE JANUARY 22, 1969				
					5-28-68	D	REVISED TO DETAIL	SR	PPS						DR. BY ED J ROE				
					5-24-68	C	WAS 7L79015-WASHER	SR	PPS						CHECKED M. Barnhart				
					10-25-68	G	SECTION B-B REMOVED	SR	PPS						APPR. J. Long				
					7-20-68	F	NOTE REVISED	SR	PPS						APPR. J. Long				
					7-20-68	A	403243-APPLIQUE ADDED	SR	PPS						APPR. S. M. 1/24/69				
																REF. 1A2E 12L 35BC1			
																	SERIES A	PART NO. 401900	

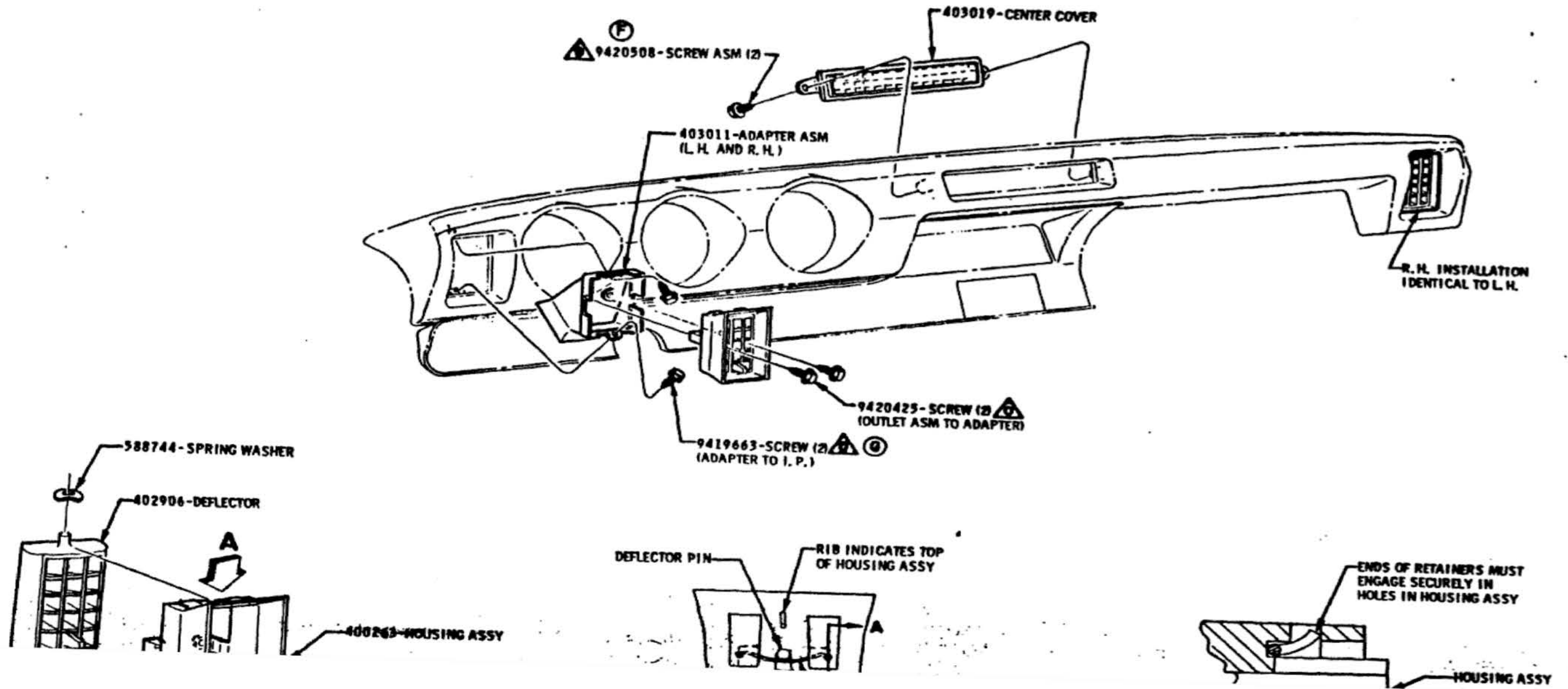


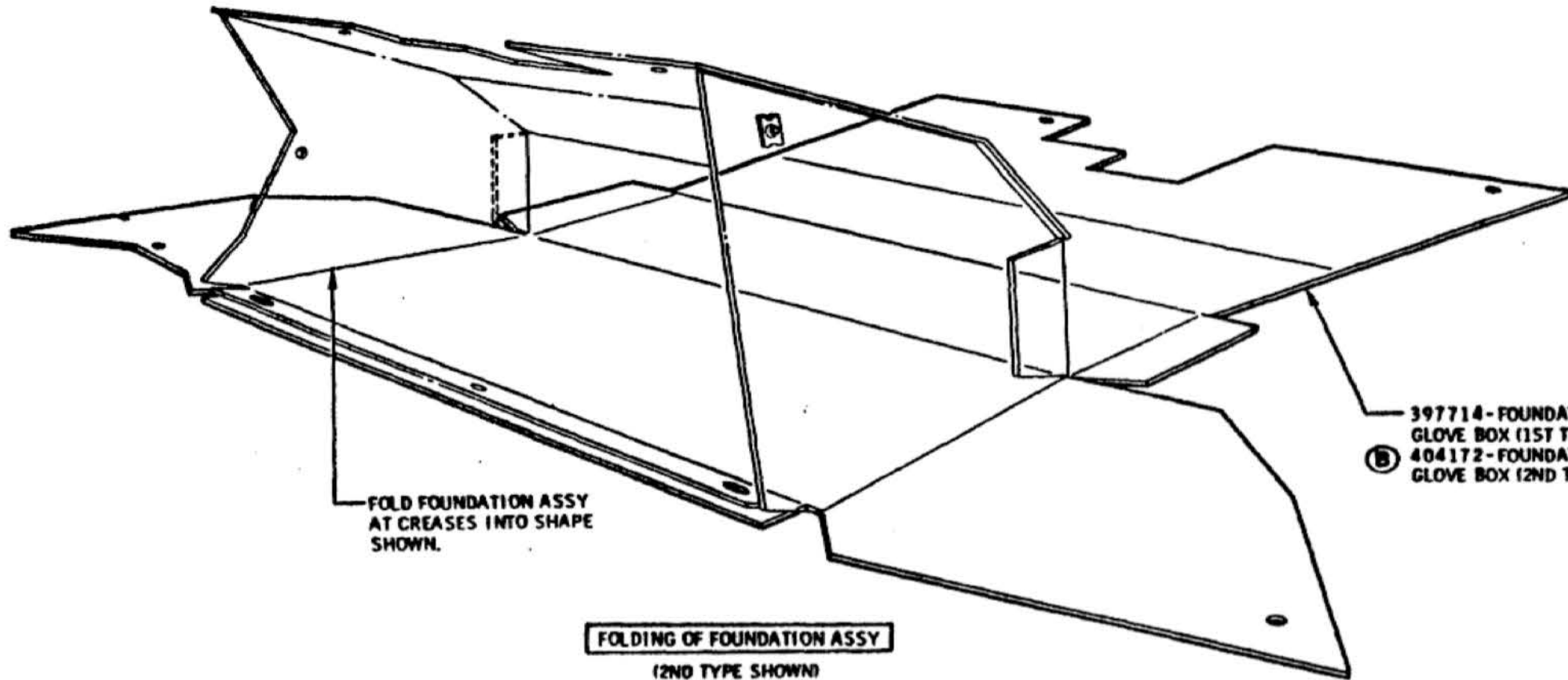
A/C CONTROL

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

HEATER CONTROL

REVISION										TITLE				
REV.	DATE	BY	CHK.	SYN.	REV.	DATE	BY	CHK.	SYN.	HEATER AND AIR CONDITIONING CONTROLS	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
										HEATER AND AIR CONDITIONING CONTROLS	1969		1-3	115
	10-25-68	C								DATE FEBRUARY 7, 1968				
	8-29-68	D								DR. BY ED J. ROE				
	8-29-68	A								CHECKED <i>[Signature]</i>	NO. 1A2C	SERIES	A	PART NO.
										APPR. <i>[Signature]</i>	35C60			401900
										APPR. <i>[Signature]</i> 2/10/68				

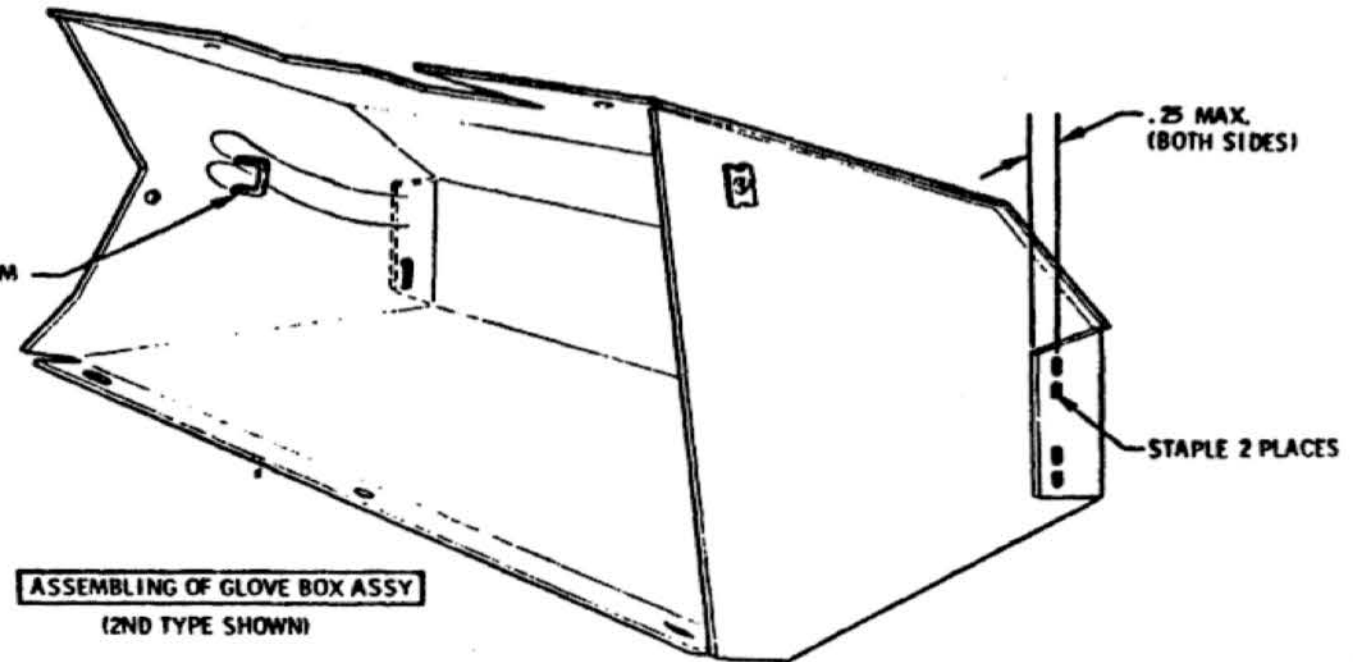




397714- FOUNDATION ASM-
GLOVE BOX (1ST TYPE)
B 404172- FOUNDATION ASM-
GLOVE BOX (2ND TYPE)

FOLD FOUNDATION ASSY
AT CREASES INTO SHAPE
SHOWN.

FOLDING OF FOUNDATION ASSY
(2ND TYPE SHOWN)



C
A 9985028- STAPLE
INSERT FROM INSIDE TO OUTSIDE OF BOX ASM
3 STAPLES (1ST TYPE)
(L. H. SIDE ONLY)
2 STAPLES (2ND TYPE)

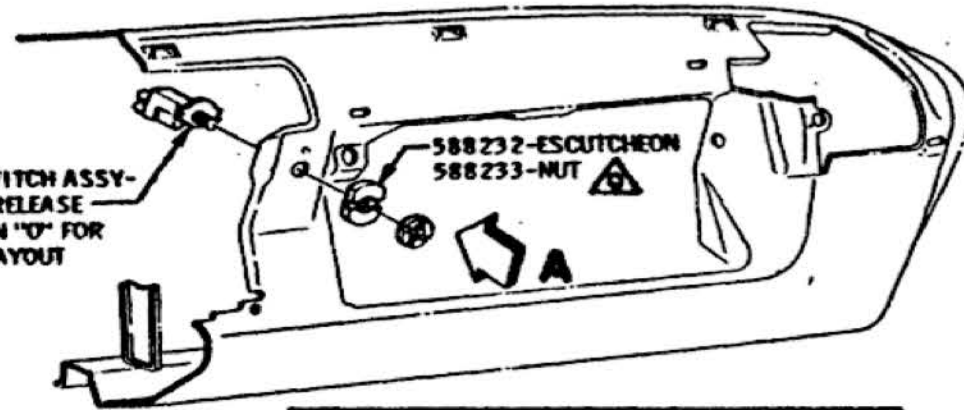
ASSEMBLING OF GLOVE BOX ASSY
(2ND TYPE SHOWN)

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
															GLOVE BOX ASSEMBLY	1969	1-3	118	
					3-3-68	C	942363 STAPLE REMOVED								DATE JANUARY 17, 1968				
					7-20-68	B	2ND TYPE ADDED								DR. BY ED J. ROE				
					2-26-68	A	9985028 STAPLE ADDED								CHECKED <i>MTB</i>	RET. 1A2B	SERIES A	PART NO. 401900	
															APPR. <i>...</i>				
															APPR. <i>...</i>				

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



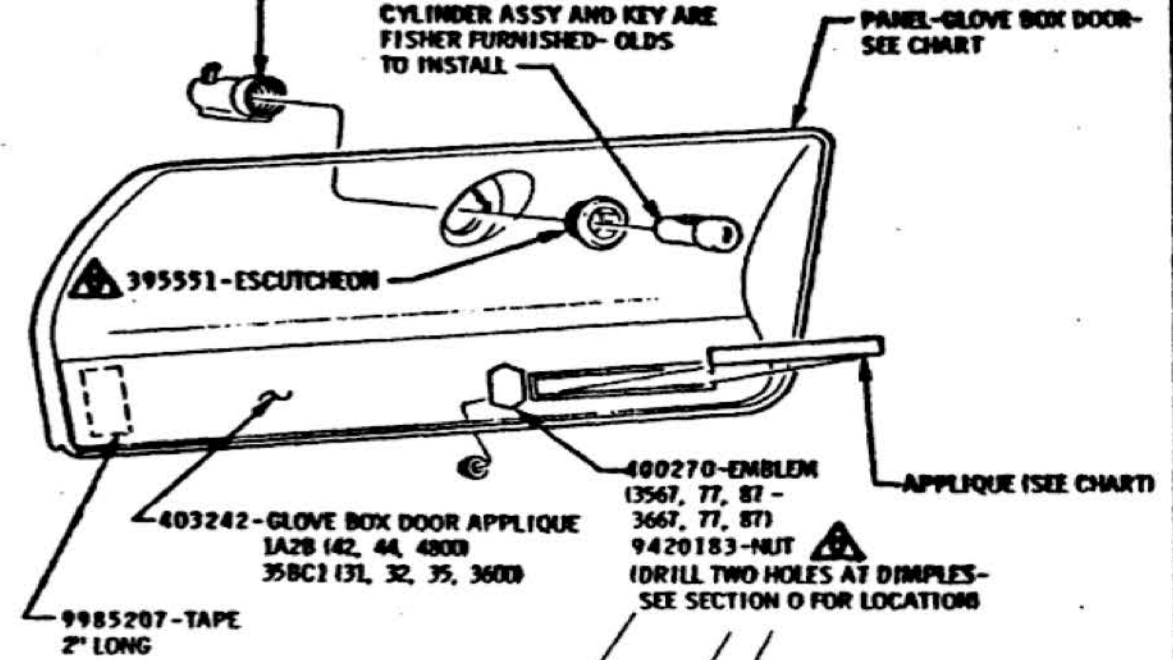
389850-SWITCH ASSY-TRUNK LID RELEASE
SEE SECTION "D" FOR DRILLING LAYOUT



7652252-KNOB ASSY

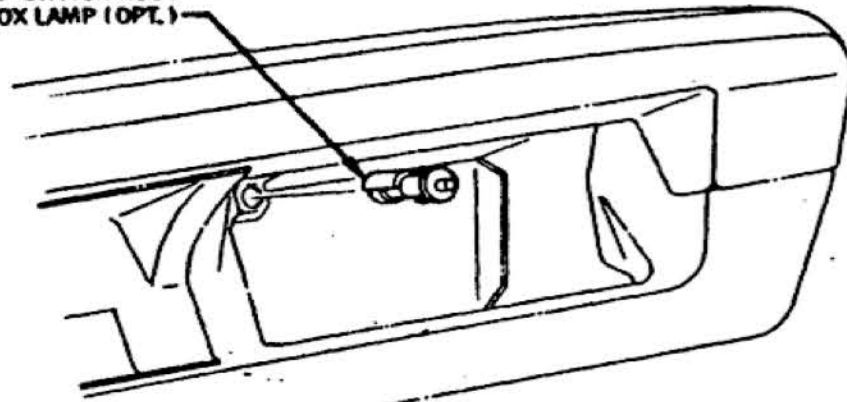
CYLINDER ASSY AND KEY ARE FISHER FURNISHED- OLDS TO INSTALL

PANEL-GLOVE BOX DOOR-SEE CHART



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

TRUNK LID RELEASE SWITCH



APPLIQUE CHART		GLOVE BOX DOOR CHART	
NUMBER	SERIES	NUMBER	COLOR
398365	31, 3200	403169	BLACK
398366	35, 3600	402580	DK. GREEN
398367	4200	402581	DK. BLUE
398368	4400	402582	DK. GOLD
398369	4800	402583	DK. RED

403242-GLOVE BOX DOOR APPLIQUE
1A2B 142, 44, 4800
35BC1 131, 32, 35, 3600

400270-EMBLEM
(3567, 77, 87 - 3667, 77, 87)
9420183-NUT
(DRILL TWO HOLES AT DIMPLES-SEE SECTION O FOR LOCATION)

9985207-TAPE
2" LONG

GLOVE BOX LAMP SWITCH

GLOVE BOX ASSY

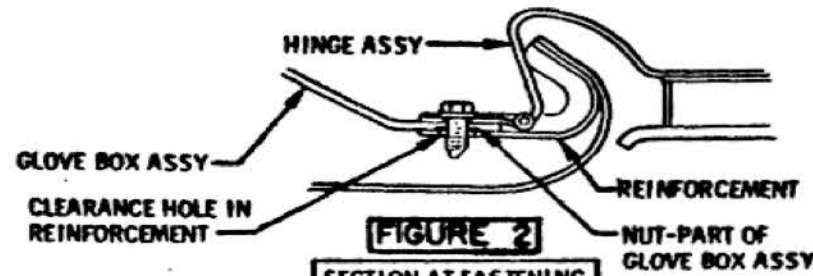


FIGURE 2

SECTION AT FASTENING

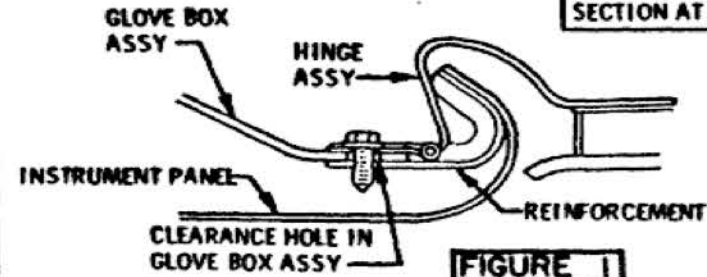
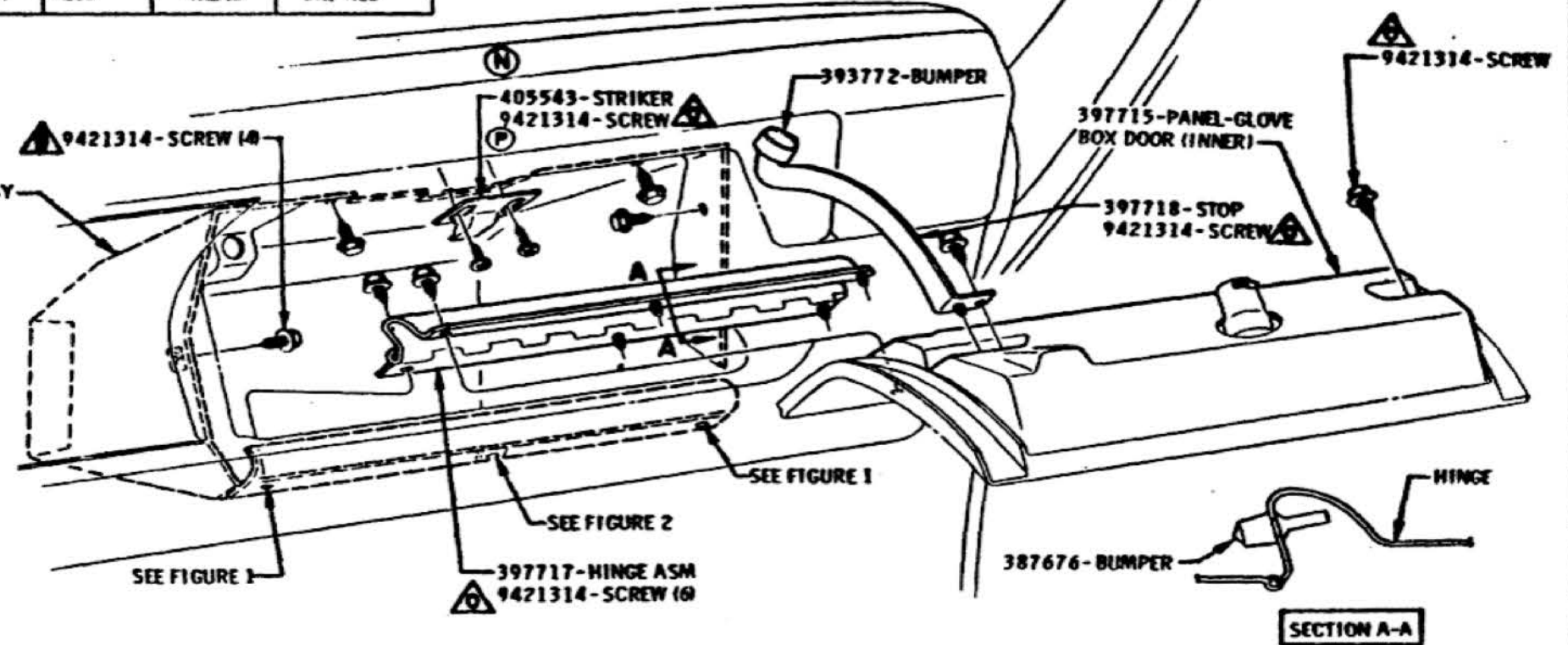


FIGURE 1

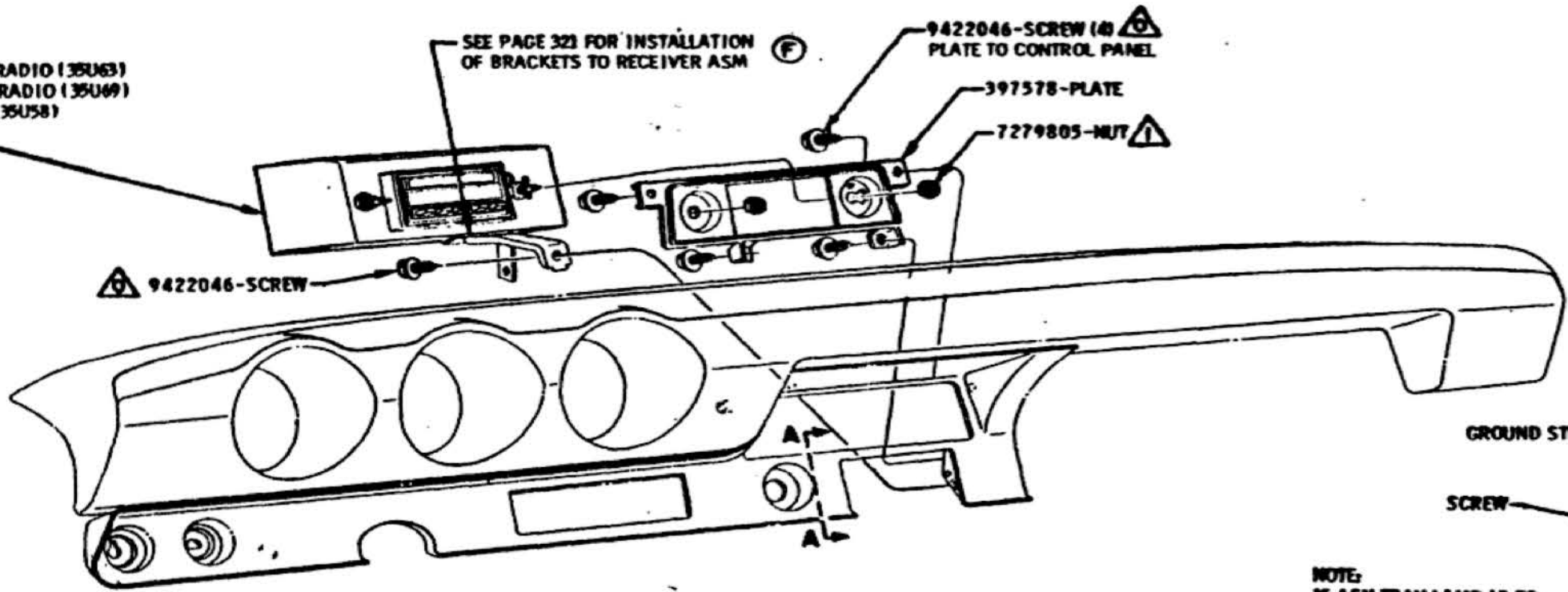
SECTION AT FASTENING



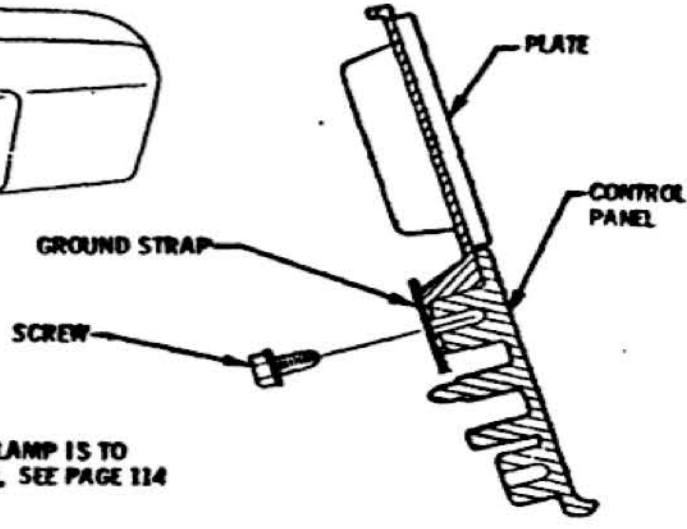
MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

DATE	BY	REVISION	DR.	CK.	DATE	BY	REVISION	DR.	CK.	DATE	BY	REVISION	DR.	CK.	DATE	BY	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
3-4-69	F	WAS 9421147- SCREW			8-13-68	K	WAS 9420508			5-7-68	E	WAS 403286									DATE FEBRUARY 19, 1968	1969	1-3	119
1-3-69	N	WAS 403896- STRIKER			7-24-68	H	9985204 TAPE ADD.			5-7-68	D	WAS 403285									DR BY ED J. ROE			
8-28-68	M	WAS 9985204- TAPE			6-25-68	G	REVISED TO DETAIL			3-26-68	C2	VIEWS ADDED									CHECKED BY Barnhart	REF. 1A2B 35A91 35BC1, V60		
8-13-68	L	WAS 9428646			5-7-68	F	WAS 403287-CASE ASM.			2-26-68	A	NOTE ADDED									APPR. [Signature]		A	401900
																					APPR. [Signature]			

7307803-RECEIVER ASM - DELUXE RADIO (35U63)
7307863-RECEIVER ASM - AM-FM RADIO (35U69)
7311583-RECEIVER ASM - AM-FM (35U58)
STEREO RADIO



SEE SECTION 1-1 FOR STEREO ADAPTER INSTALLATION



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

SECTION A-A

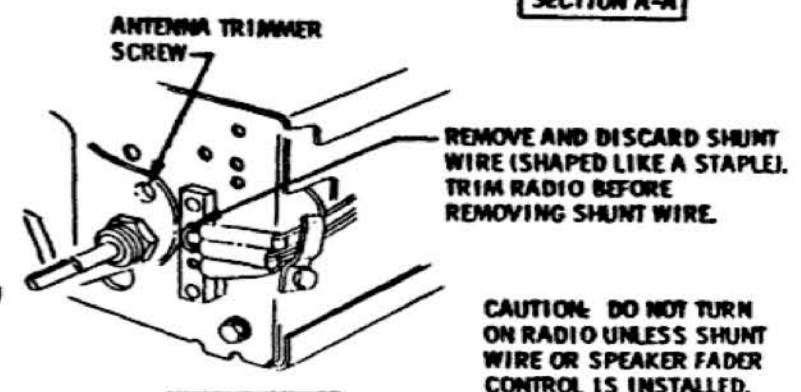
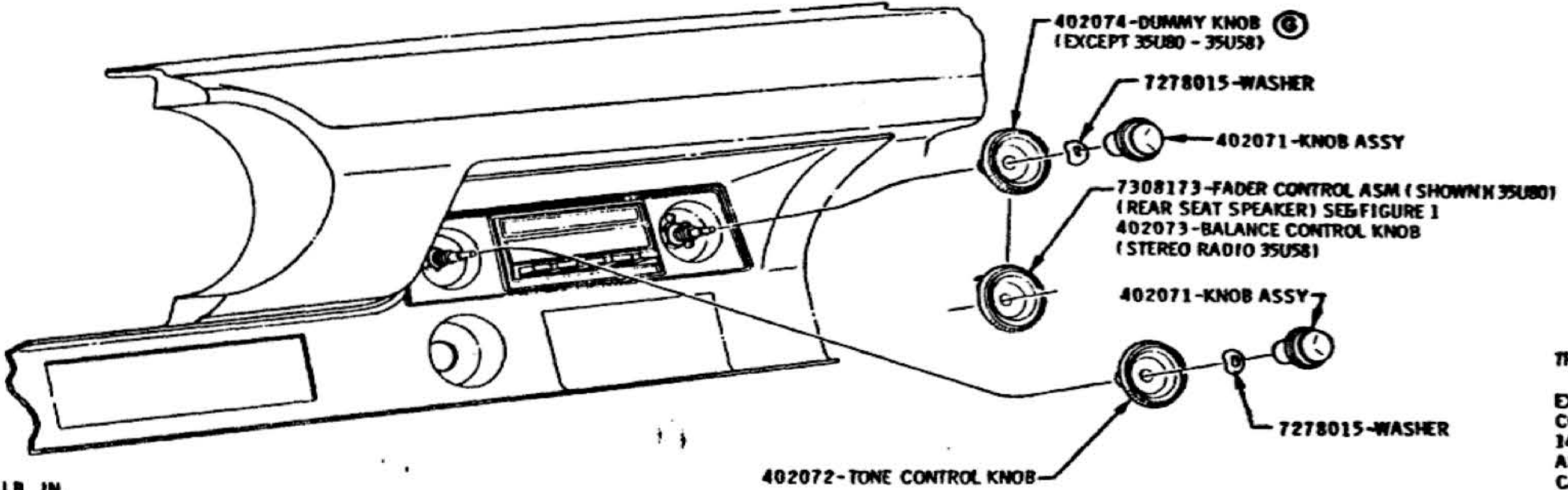
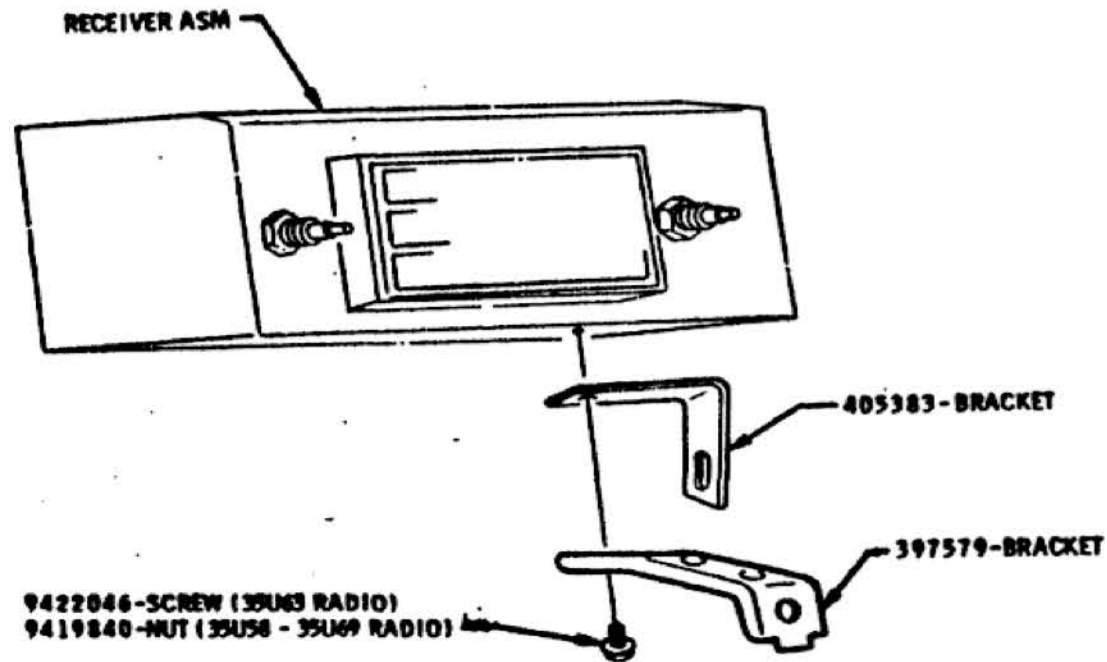


FIGURE 1
ANTENNA TRIMMING INSTRUCTIONS

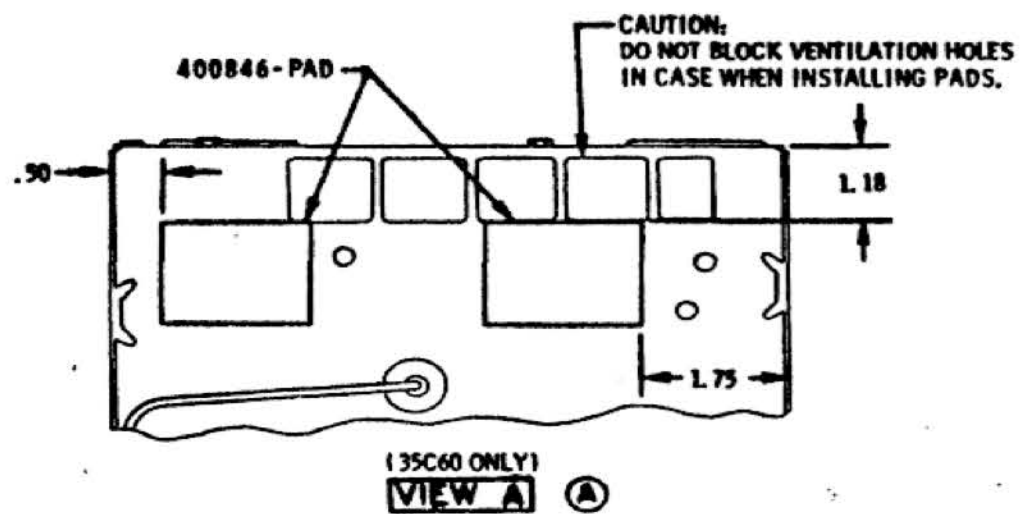
TRIMMING TO BE DONE AFTER ALL SHEET METAL HAS BEEN INSTALLED.
EXTEND ANTENNA MAST TO 31 IN. PLUS OR MINUS 1 IN. ADVANCE VOLUME CONTROL TO FULL ON. TUNE RADIO TO THE PROVIDED SIGNAL (AT OR NEAR 1400 KCS) WHICH HAS BEEN ADJUSTED TO PROVIDE THE LOWEST PRACTICAL AMOUNT OF SOUND FROM THE RADIO AFTER THE TRIMMER 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

				11-12-68	E	NOTE ADDED	54	PTA	RADIO				
				7-2-68	D	402073-KNOB ADDED	Dr	TS	DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
				7-2-68	C	7311583-RECEIVER ADDED	Er	PTA	FEBRUARY 7, 1968	1969	INFORMATION MANUAL	1-3	320
				9-18-69	G	REVISED TO DETAIL	Er	PTA	DR. BY	35U63	SERIES	PART NO.	401900
				12-14-68	F	NOTE ADDED	Er	PTA	ED J. ROE	35U69			
						WAS 1242365 WASHER	Er	PTA	CHECKED	35U80			
						KNOBS ADDED	Er	PTA	MP				
							Er	PTA	APPR.				



BRACKETS TO RECEIVER ASM
SEE FIGURE 1



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

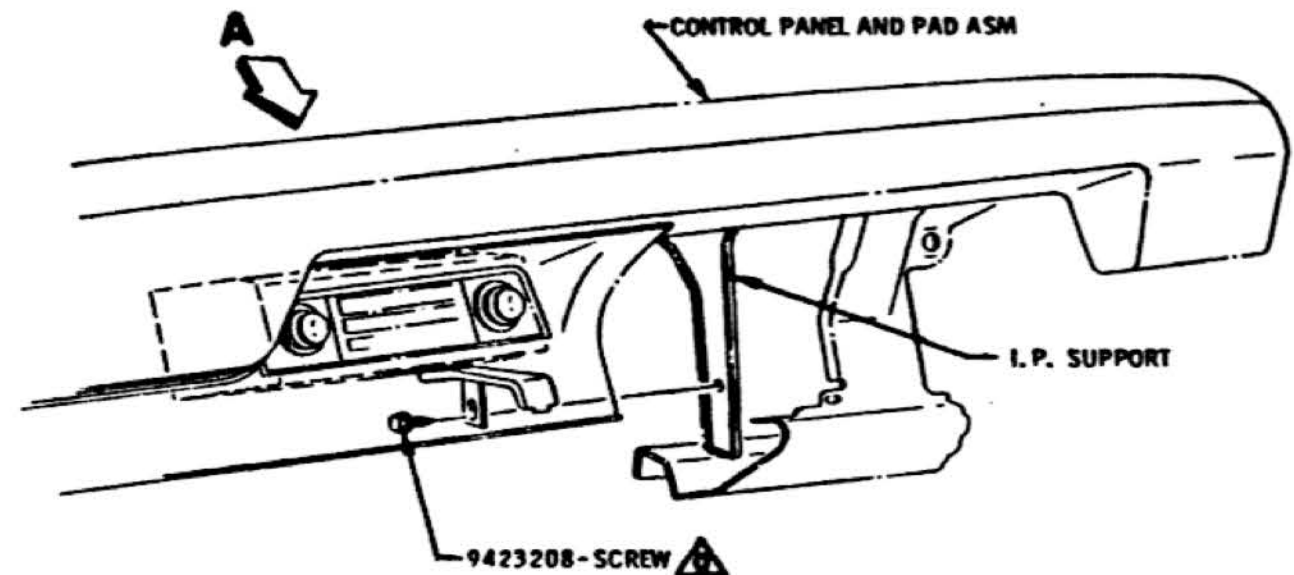
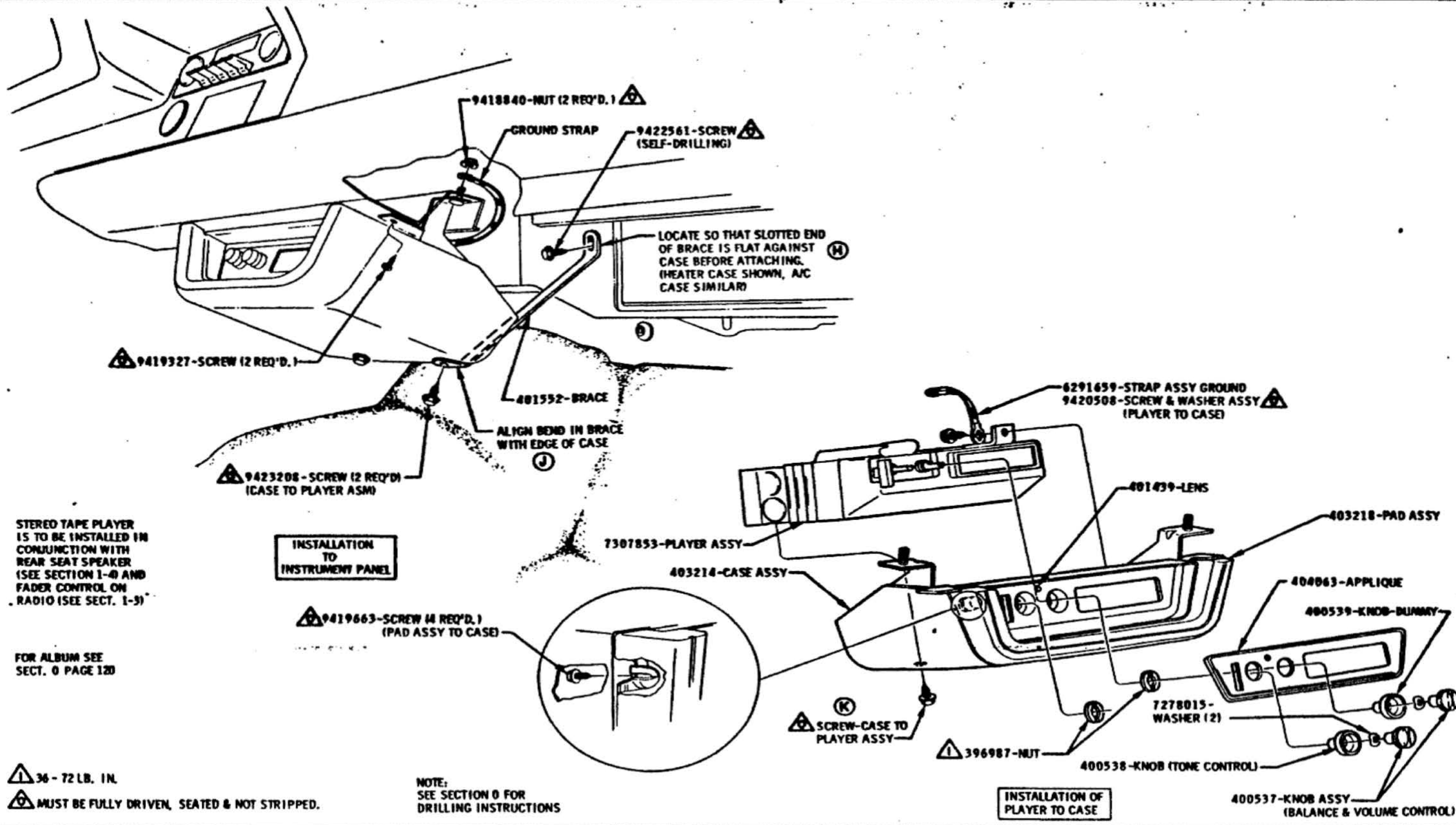


FIGURE 1

TITLE										RADIO	
DATE <i>DECEMBER 18, 1968</i>										FIRST USED	
DR. BY <i>ED J. ROE</i>										1969	
CHECKED <i>[Signature]</i>										OLDSMOBILE PRODUCT	
APPR. <i>Taylor</i>										INFORMATION MANUAL	
										MANUAL SEC. PAGE	
										1-3 321	
										SERIES	
										A	
										PART NO.	
										401900	



STEREO TAPE PLAYER IS TO BE INSTALLED IN CONJUNCTION WITH REAR SEAT SPEAKER (SEE SECTION 1-4) AND FADER CONTROL ON RADIO (SEE SECT. 1-5)

INSTALLATION TO INSTRUMENT PANEL

FOR ALBUM SEE SECT. 0 PAGE 120

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

NOTE: SEE SECTION 0 FOR DRILLING INSTRUCTIONS

INSTALLATION OF PLAYER TO CASE

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
					9-27-68	K	REVISED TO DETAIL	EJR	MS	5-15-68	E	REVISED TO DETAIL	EJR	MS						STEREOPHONIC TAPE PLAYER	1969		1-3	322
					8-12-68	J	NOTE ADDED	JR	MS	8-16-68	D	WAS 401550	JR	MS						DATE FEBRUARY 8, 1968				
					8-12-68	H	NOTE REVISED	JR	MS	8-16-68	C	NOTE ADDED	JR	MS						DR. BY ED J. ROE				
					8-12-68	G	WAS 9402511	JR	MS	8-16-68	B	VIEW REMOVED	JR	MS						CHECKED <i>[Signature]</i>				
					6-20-68	F	WAS 400536	EJR	MS	4-3-68	A	HAS 7242365-WASHER	MS	MS						APPR. <i>[Signature]</i>	35U57	SERIES A	PART NO.	401900
																				APPR. <i>[Signature]</i>				



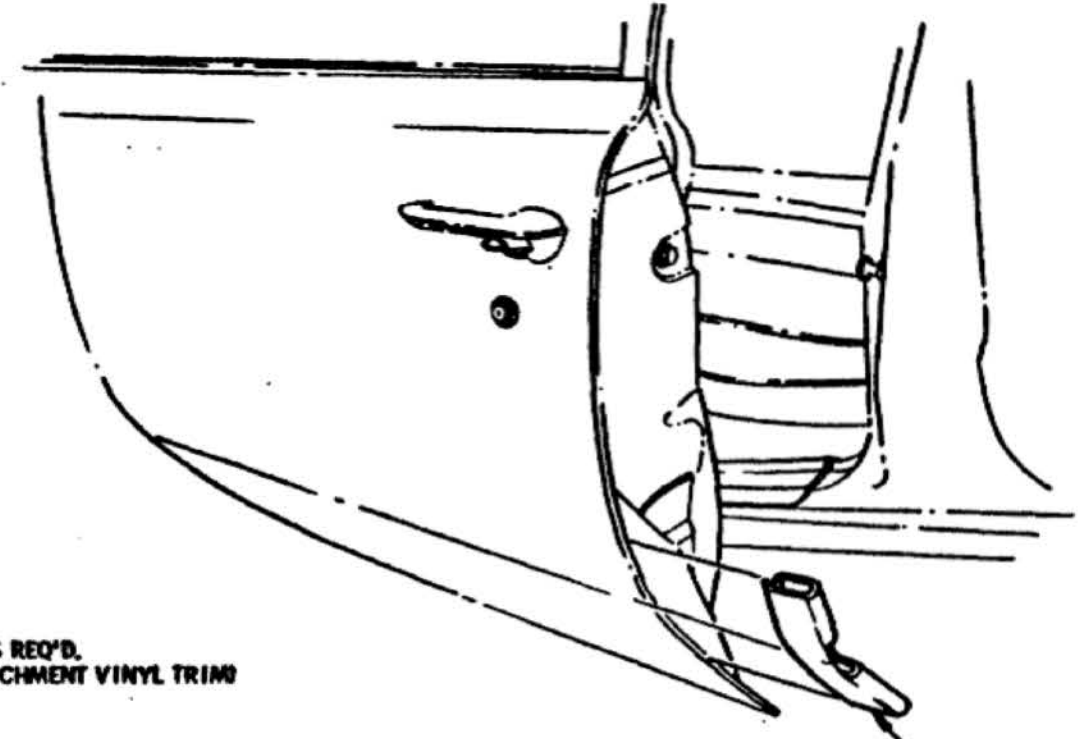
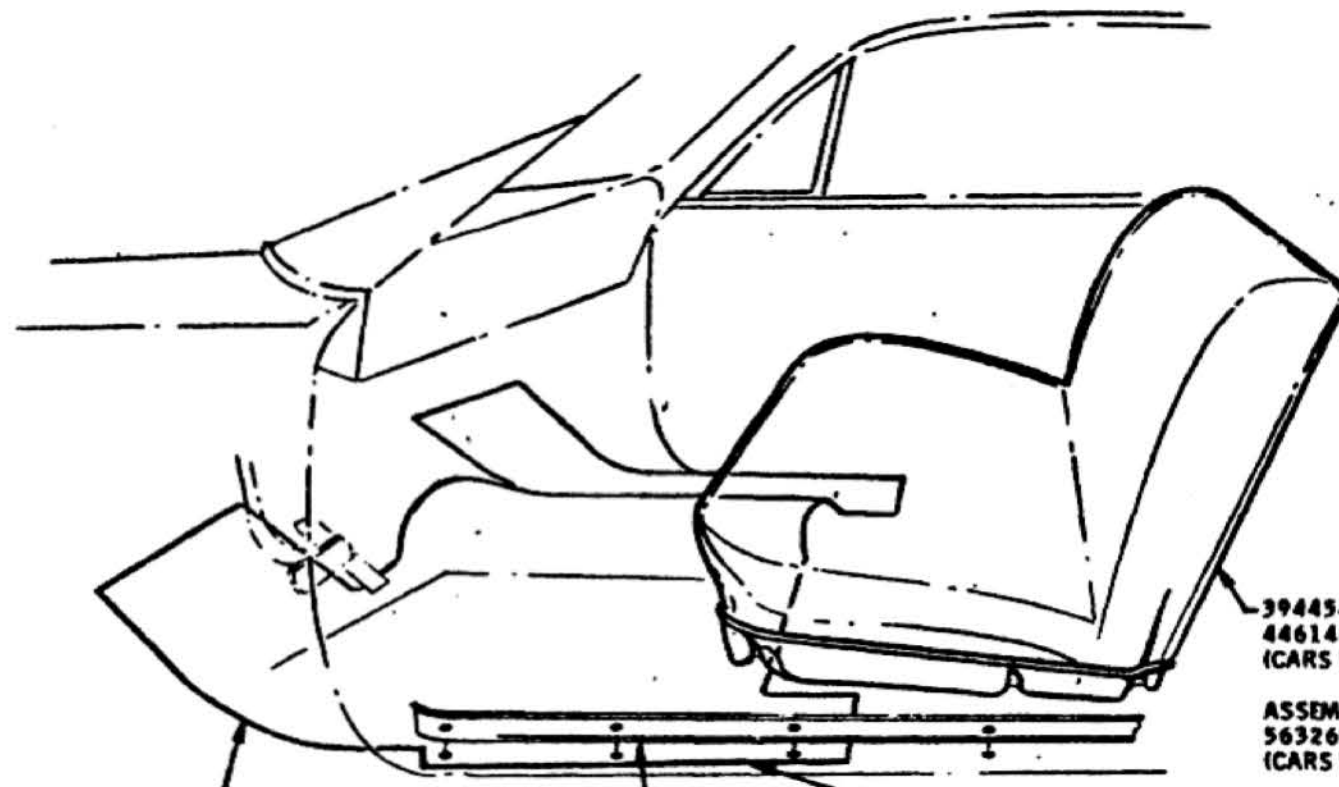
SECTION 1-4 MISCELLANEOUS BODY PARTS

- 110 MISCELLANEOUS PARTS**
- 320 RADIO AFFECTED COMPONENTS**
- 345 REAR WINDOW DEFOGGER**
- 410 DOOR EDGE GUARDS**

DATE 6-17-68

MANUAL NO. 401900

SERIES A



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

SILL PLATE

PLACE COVER UNDER
SILL PLATE AND
TIGHTEN SCREWS 


394454-COVER
4461443-ELASTIC BAND-AS REQ'D.
(CARS WITH CLOTH AND PARCHMENT VINYL TRIM)

ASSEMBLY PLANT USE:
563260-COVER
(CARS WITH CLOTH TRIM AND PARCHMENT VINYL TRIM)

9785740-PROTECTOR
FRONT DOOR-L. H.

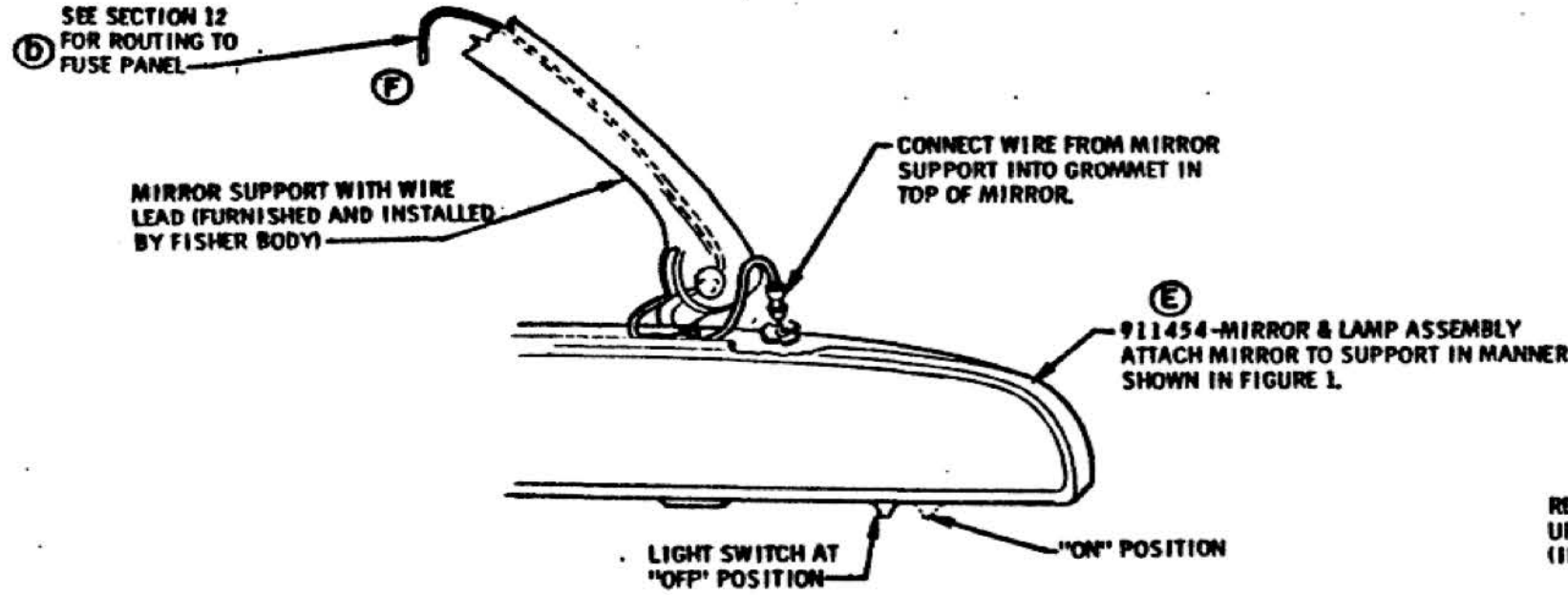
NOTE:
ON CARS WITH CONSOLE PLACE
PROTECTOR OVER CONSOLE.

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

 MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

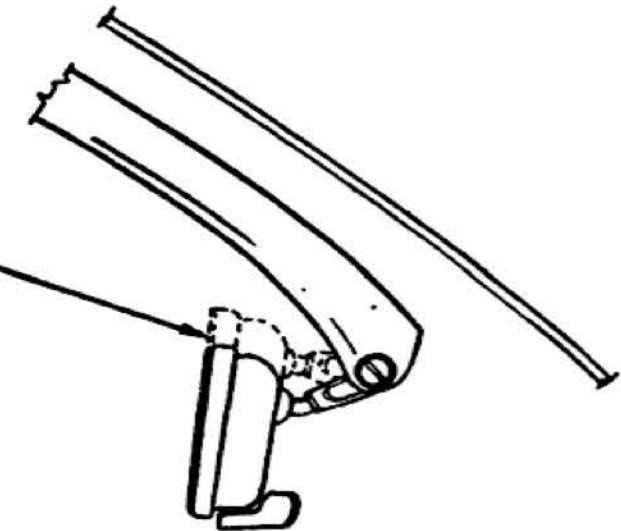
										TITLE FRONT FLOOR, SEAT, AND DOOR EDGE PROTECTOR									
										DATE	FEB. 27, 1969	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	1-4	PAGE	110	
										DR. BY	B. PARKER								
										CHECKED	J. P. [Signature]								
										APPR.	C. P. [Signature]	REV.	14G	SERIES	A-B-C	PART NO.	401900-1		
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

SEE SECTION 12 FOR ROUTING TO FUSE PANEL



MIRROR AND LIGHT ASSEMBLY

REFERENCE: UPPER ZONE OF ADJUSTMENT (INVERTED STUD)



MIRROR INSTALLED (SIDE VIEW)

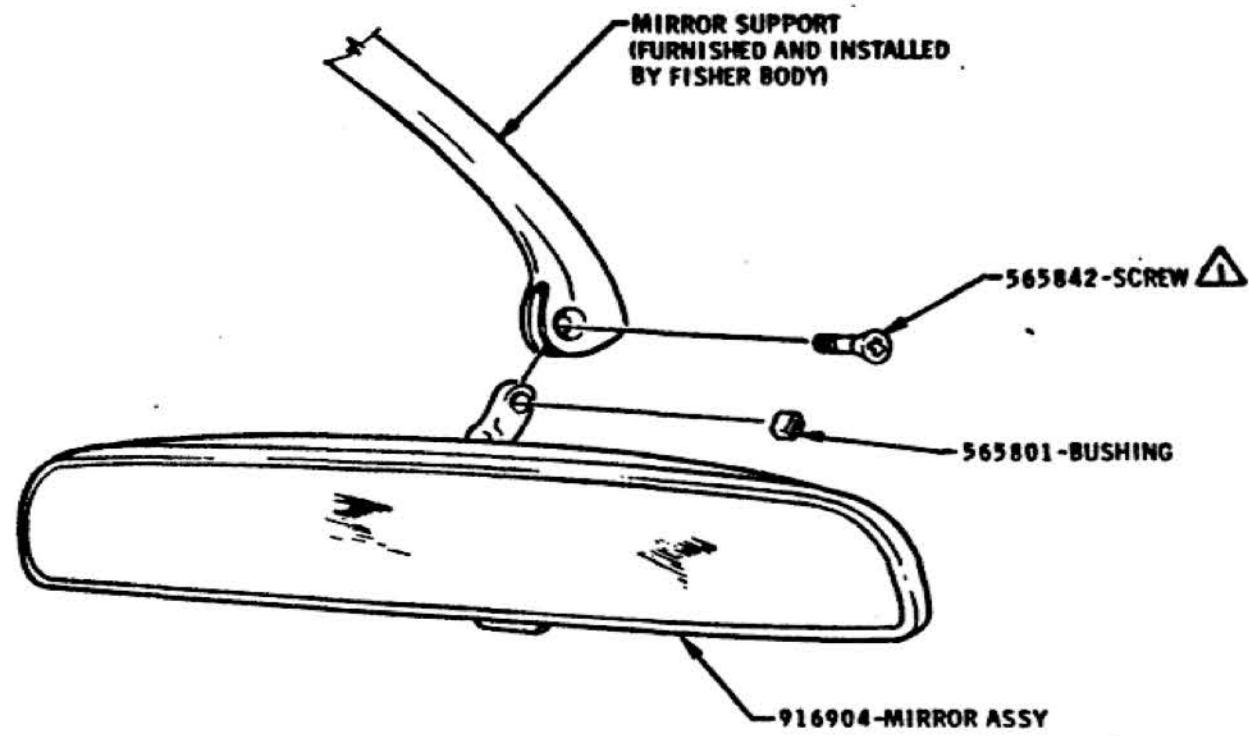
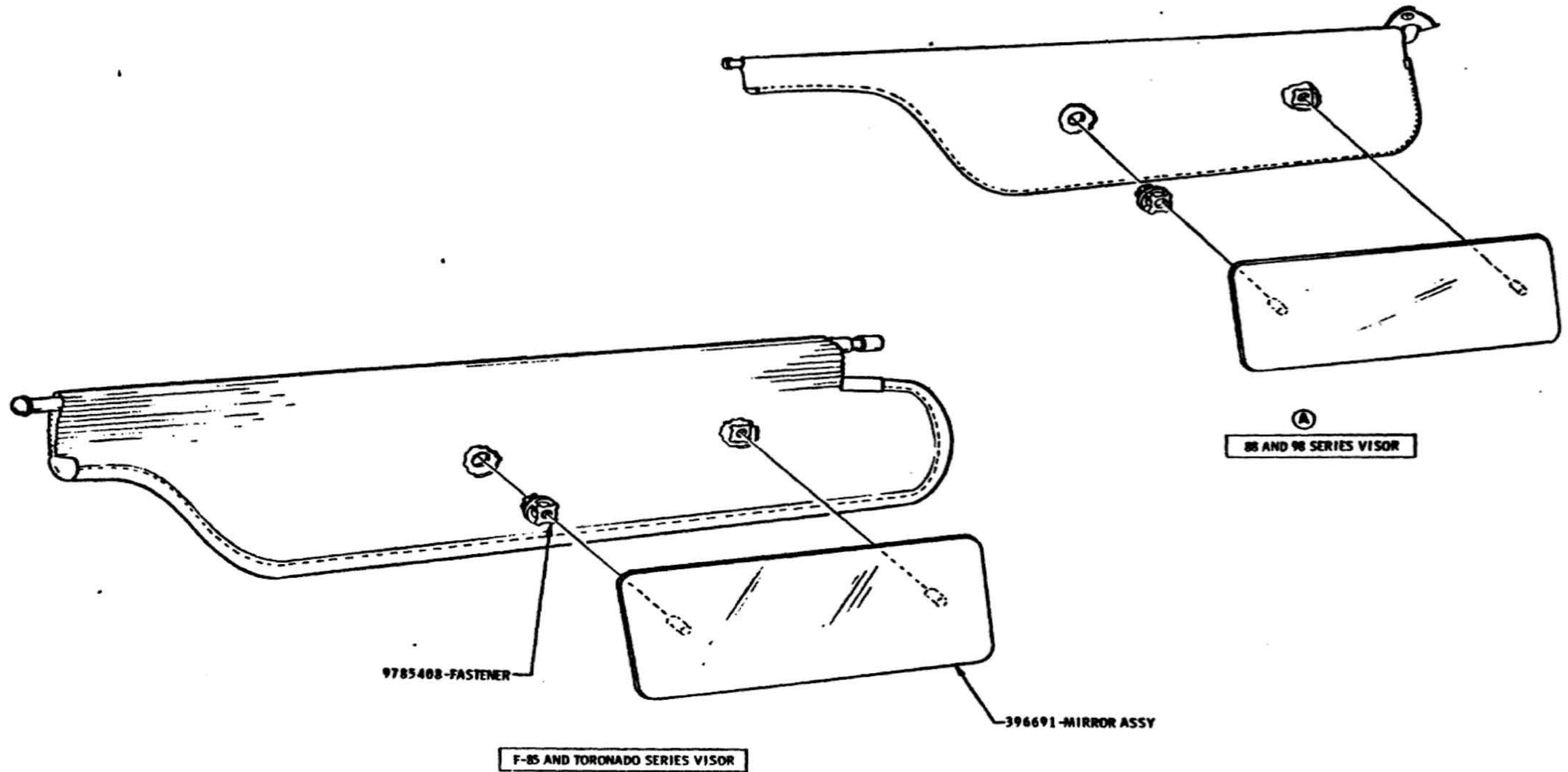


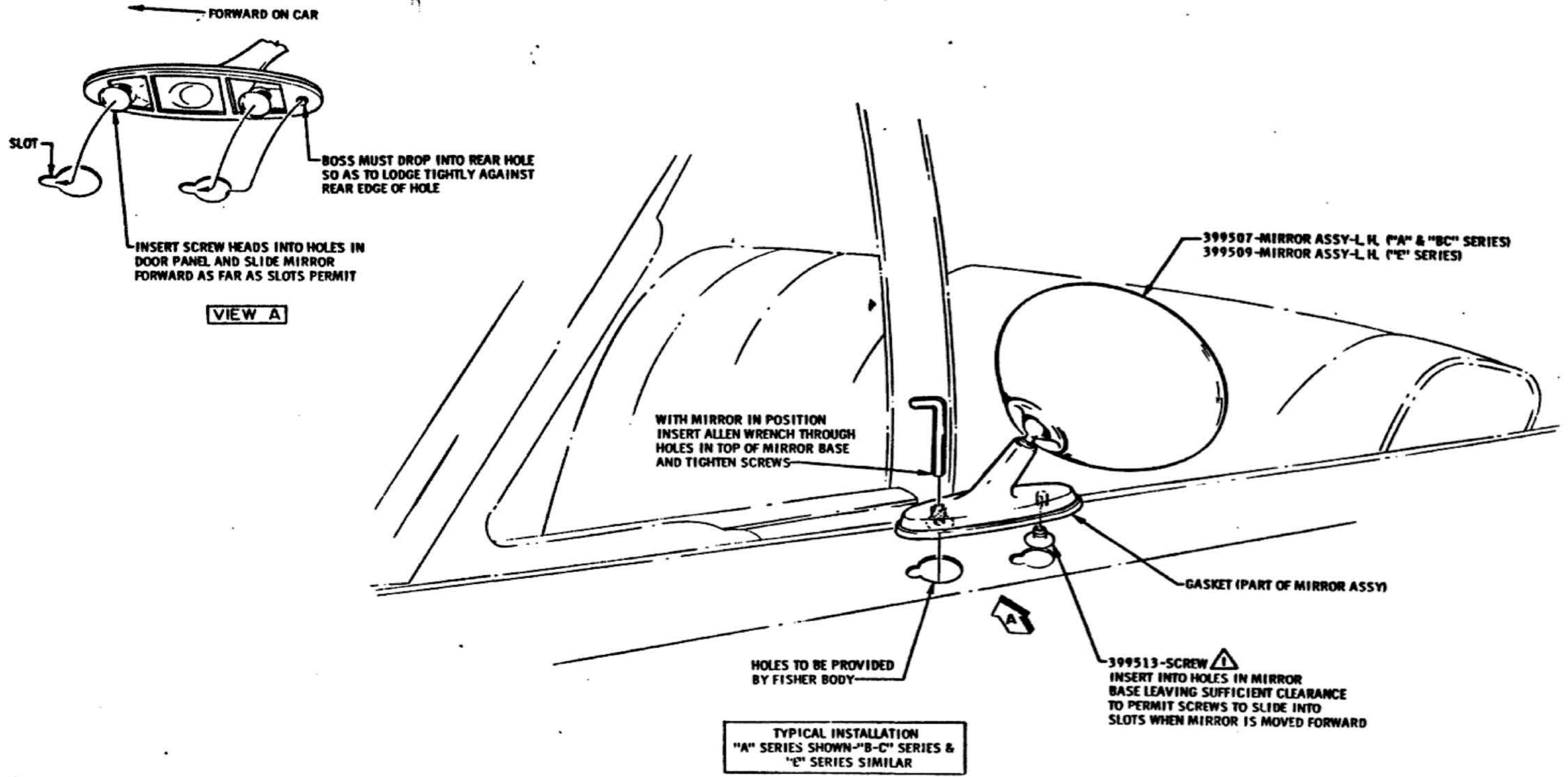
FIGURE 1

40 - 50 LB. IN.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APP.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.	
					11-18-68	E	WAS 910996-MIRROR	BT								INSIDE REAR VIEW MIRROR AND MIRROR AND LIGHT ASSEMBLY	1969		1-4	115	A-B-C-E	401900-1-2	
					6-10-68	D	WIRE CONNECTOR ADDED	BT								DATE DEC. 6, 1967							
					5-29-68	C	TITLE REVISED	BT								DR BY B. PARKER							
					5-29-68	B	350FI INFO. ADDED	BT								CHECKED JEM							
					11-18-68	F	CONNECTOR REMOVED	BT								APPR. J. J. J.	REF. 35 OF 1						
					4-18-68	A	TITLE REVISED	BT								1A2E							



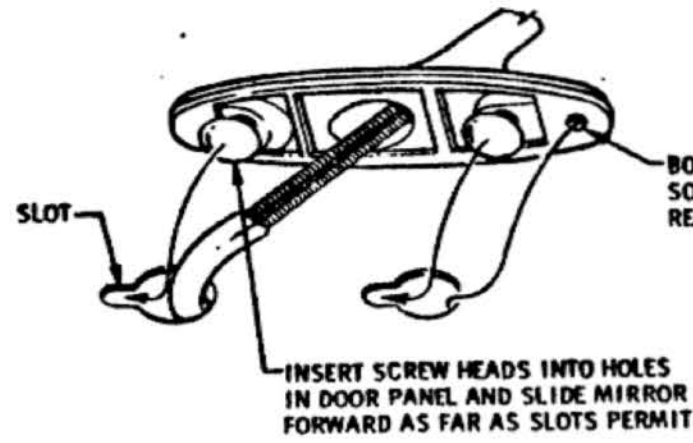
										TITLE VISOR VANITY MIRROR				
										DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
										10.23.1968	1969		1-4	117
										DR. BY	CHECKED	REF.	SERIES	PART NO.
										B.P.D.T.		35Y60	A-B-C-E	401900-1-2
										DATE	SYN	REVISION	DR. CK.	APPR.
										5-16-68	A	VIEW ADDED		SPC 112360
										DR. CK.	DATE	SYN	REVISION	DR. CK.



25 - 40 LB. IN.

										TITLE									
										OUTSIDE REAR VIEW MIRROR									
										DATE	NOVEMBER 21 1967	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE			
										DR BY	T. PARKER	REF	1A8E	INFORMATION MANUAL	1-4	120			
										CHECKED		SERIES	A B-C E	PART NO. 401900-1-2					
										APPR.									
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK

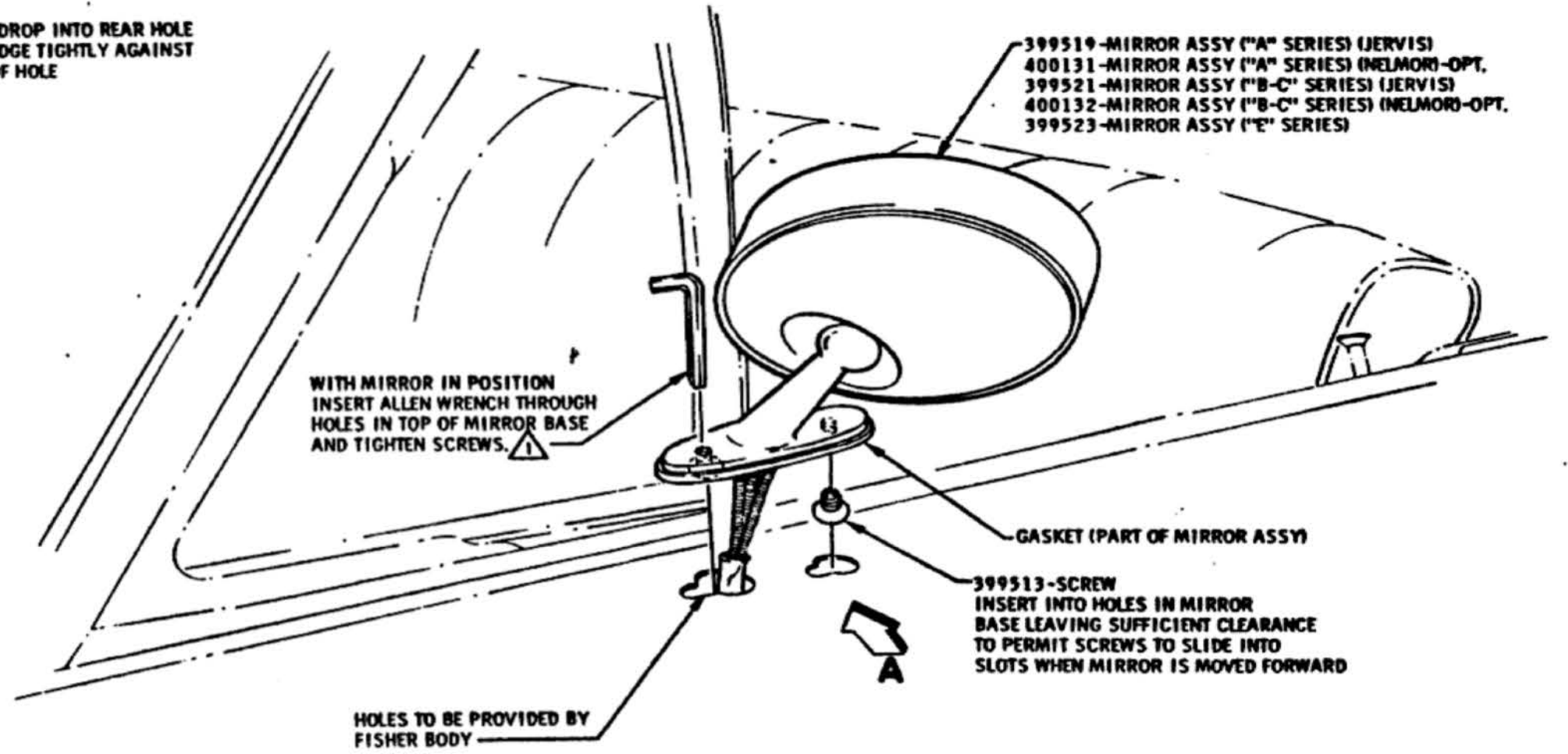
FORWARD ON CAR



VIEW A

BOSS MUST DROP INTO REAR HOLE SO AS TO LODGE TIGHTLY AGAINST REAR EDGE OF HOLE

INSERT SCREW HEADS INTO HOLES IN DOOR PANEL AND SLIDE MIRROR FORWARD AS FAR AS SLOTS PERMIT



399519-MIRROR ASSY ("A" SERIES) (JERVIS)
 400131-MIRROR ASSY ("A" SERIES) (NELMOR-OPT.)
 399521-MIRROR ASSY ("B-C" SERIES) (JERVIS)
 400132-MIRROR ASSY ("B-C" SERIES) (NELMOR-OPT.)
 399523-MIRROR ASSY ("E" SERIES)

WITH MIRROR IN POSITION
 INSERT ALLEN WRENCH THROUGH
 HOLES IN TOP OF MIRROR BASE
 AND TIGHTEN SCREWS.

GASKET (PART OF MIRROR ASSY)

399513-SCREW
 INSERT INTO HOLES IN MIRROR
 BASE LEAVING SUFFICIENT CLEARANCE
 TO PERMIT SCREWS TO SLIDE INTO
 SLOTS WHEN MIRROR IS MOVED FORWARD

HOLES TO BE PROVIDED BY
 FISHER BODY

TYPICAL INSTALLATION
 "A" SERIES SHOWN "B-C" SERIES &
 "E" SERIES SIMILAR

1 25-40 LB. IN.

										TITLE		REMOTE CONTROL MIRROR									
										DATE	DEC. 4 1967	FIRST INCD	1969								
										DR. BY	E. PARKER	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE							
										CHECKER		INFORMATION MANUAL	1-4	121							
										APP. BY		REF.	95033	SERIES	PART						
												A-B-C-E	401900-1-2								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM

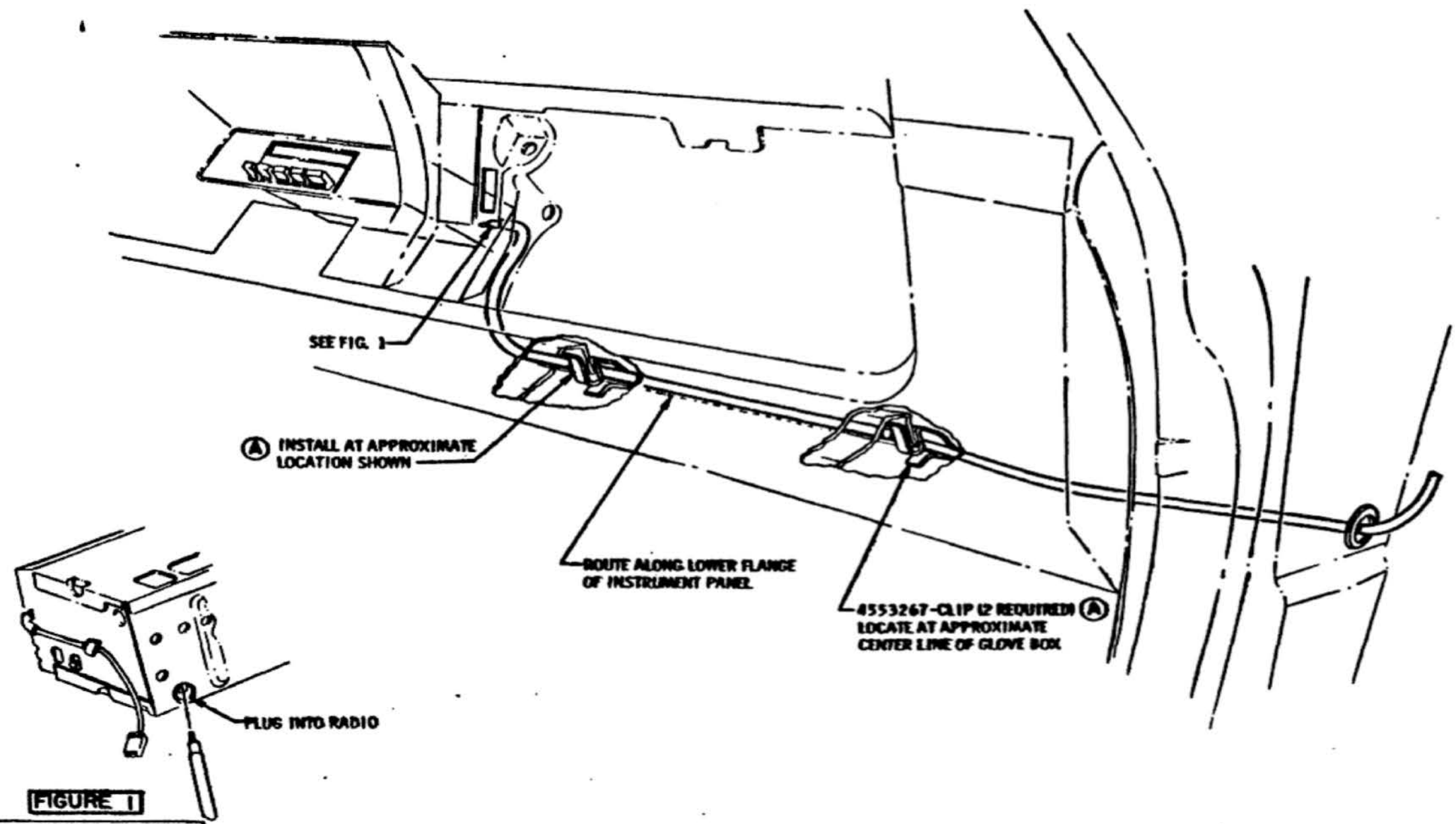


FIGURE 1
LEAD-IN CABLE CONNECTION TO RADIO

										TITLE		MANUAL ANTENNA LEAD-IN ROUTING (INSIDE CAR)						
										DATE	JAN. 22, 1968	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION NUMBER	1-4	321		
										DR. BY	B. PARKER	CHECKED	JLM	REF. 35065	SERIES	A		
										9-17-68	A	CLIP ADDED - QUANTITY 100	BY	DT	APR. 27 1968	FRANK	PART NO.	401900
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.			

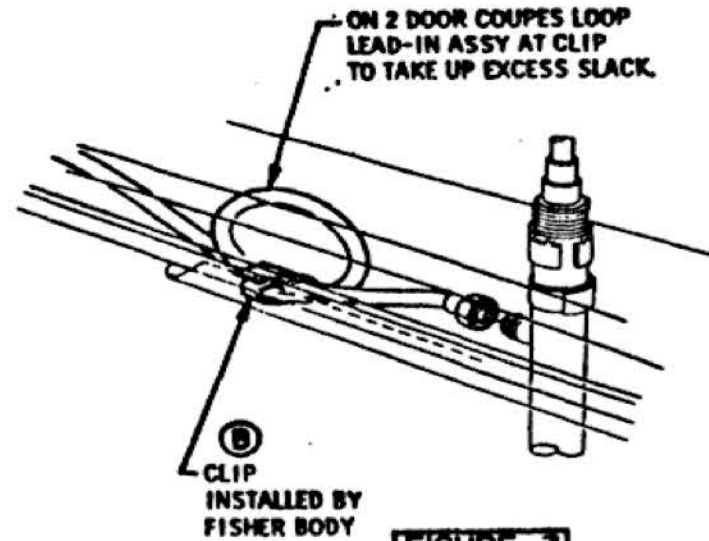


FIGURE 3

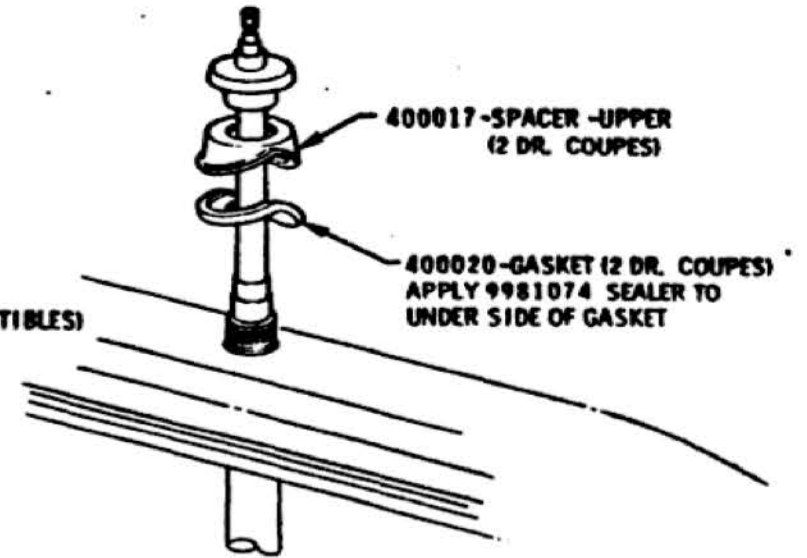
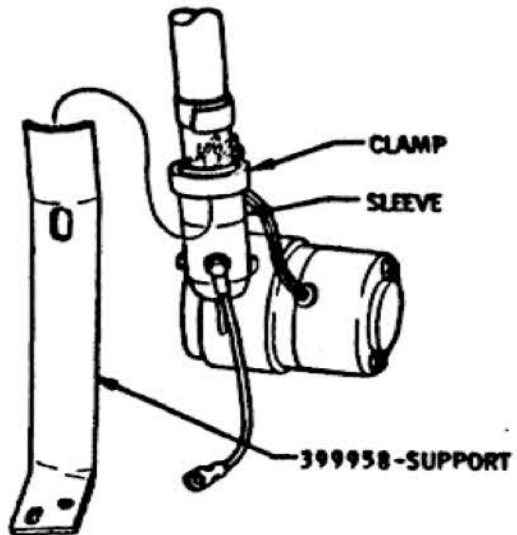


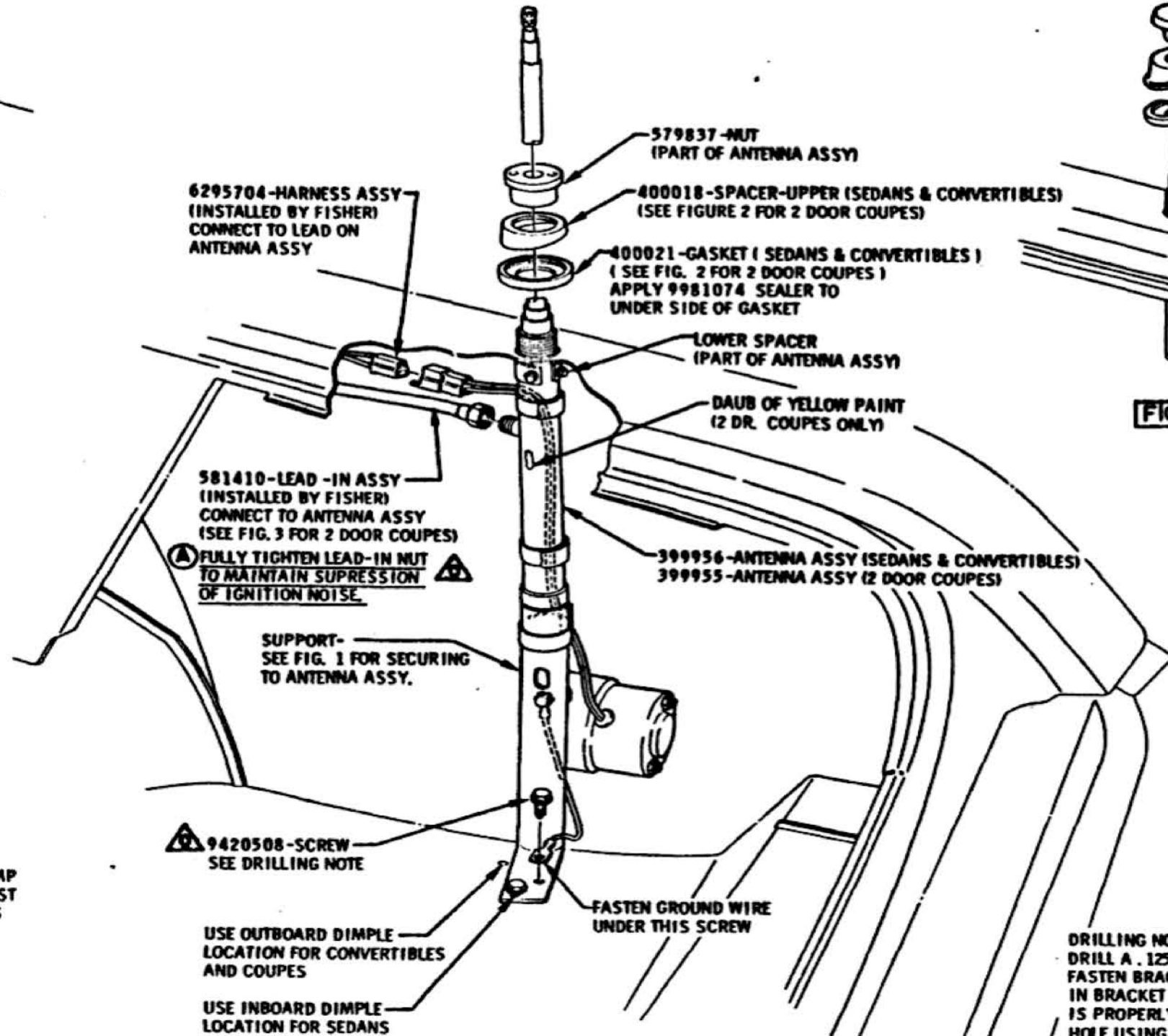
FIGURE 2



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.

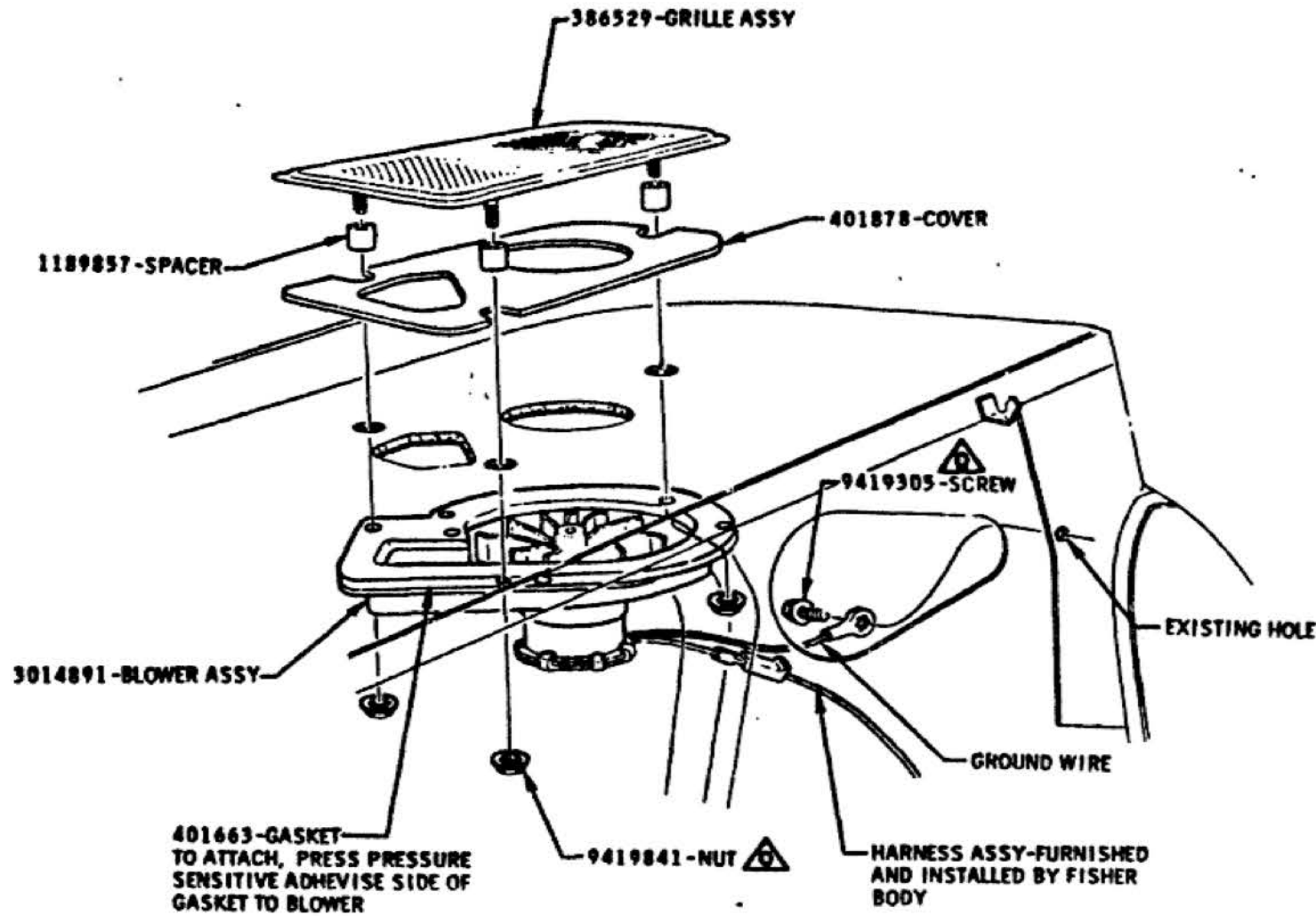
FIGURE 1

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

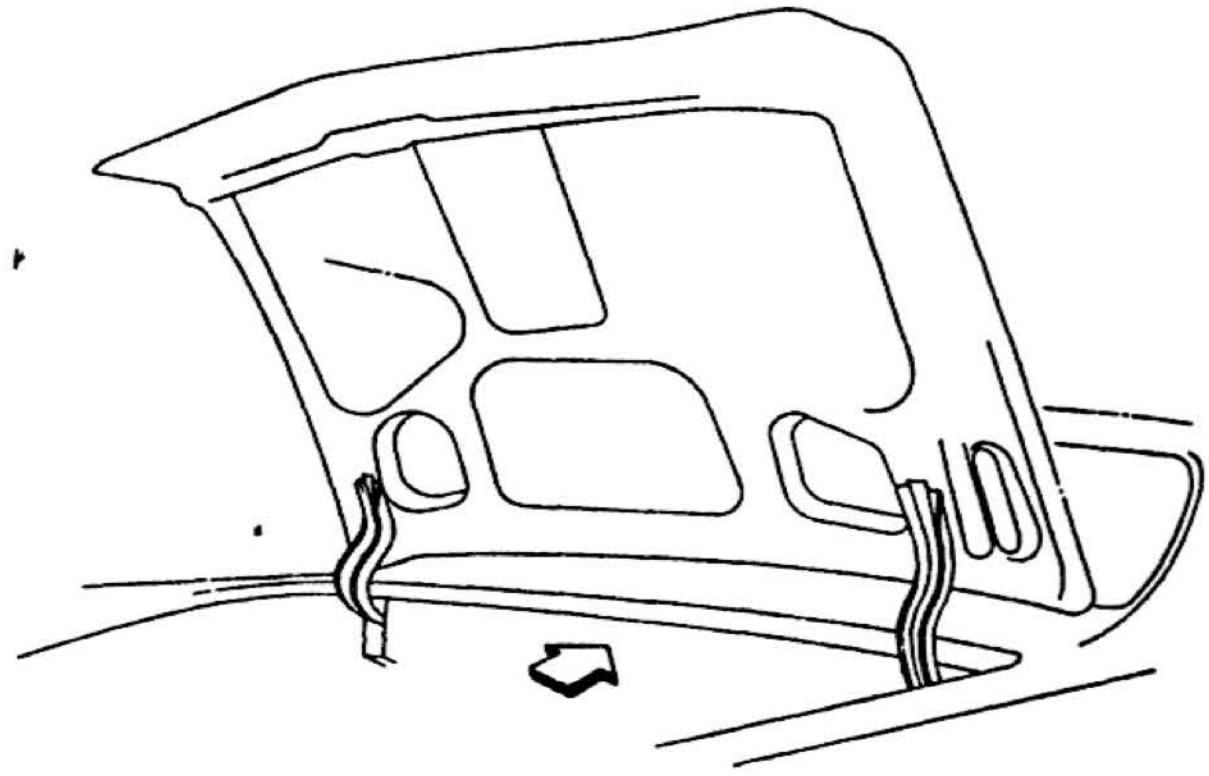


DRILLING NOTE:
DRILL A .125 DIA. HOLE THROUGH CORRECT DIMPLE. FASTEN BRACKET IN PLACE LOCATING SLOTTED HOLE IN BRACKET OVER DIMPLE MAKING SURE ANTENNA IS PROPERLY ALIGNED, THEN DRILL REMAINING SCREW HOLE USING THE BRACKET AS A TEMPLATE.

TITLE										ELECTRIC ANTENNA (EXCEPT STATION WAGON)										
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	
11-8-66 B CLIP & NOTE REVISED										B. PARKER				FIRST USED	MANUAL SEC.	PAGE				
6-3-68 A NOTE ADDED										APPR. [Signature]				1969	1-4	325				
														REV.	SERIES	PART NO.				
														35U75	A	401900				

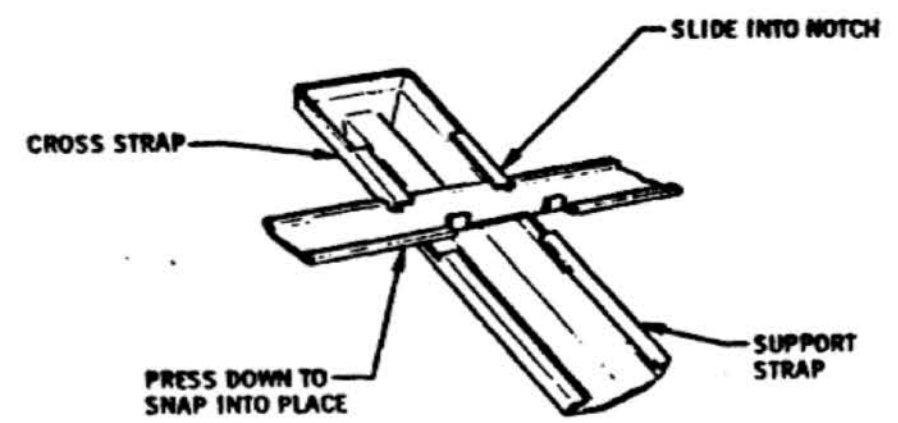


BLOWER ASSEMBLY
INSTALLATION

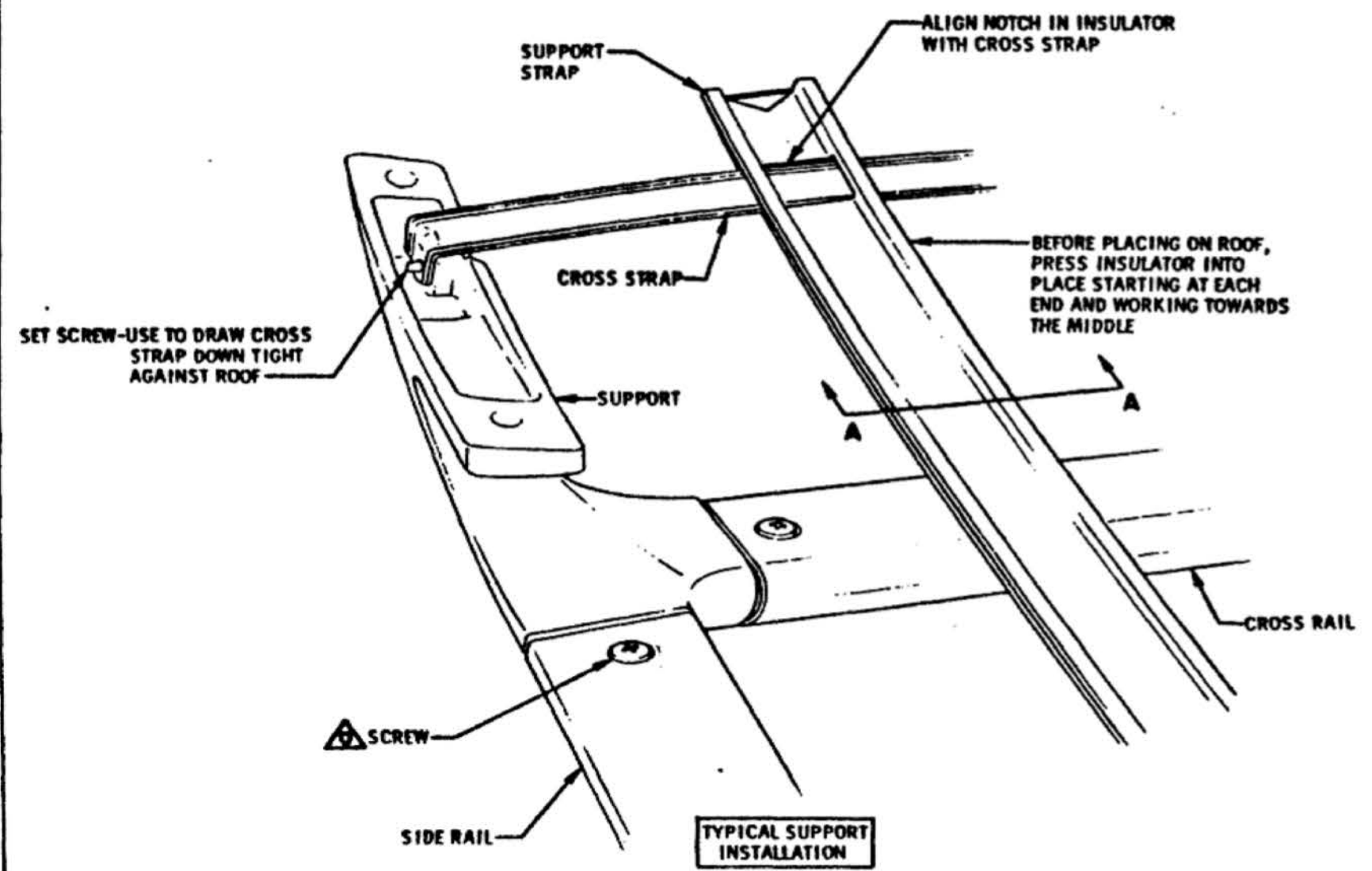


⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

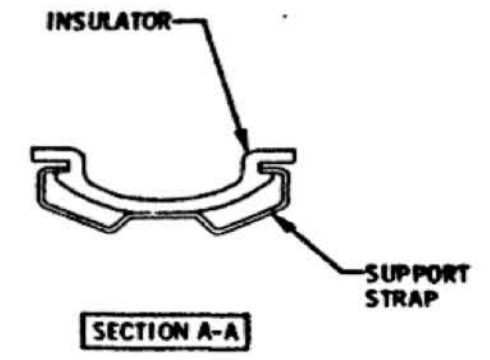
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
													REAR WINDOW DEFOGGER	1969		1-4	345
													DATE: APR 12 1969				
													DR. BY: B. PARKER				
													CHECKED: J. H. HATTENBERG				
													APP.:	REF. 35C.50	SERIES A	PART NO. 401900	



TYPICAL CROSS STRAP TO SUPPORT STRAP INSTALLATION



TYPICAL SUPPORT INSTALLATION
(L.H. REAR SHOWN)

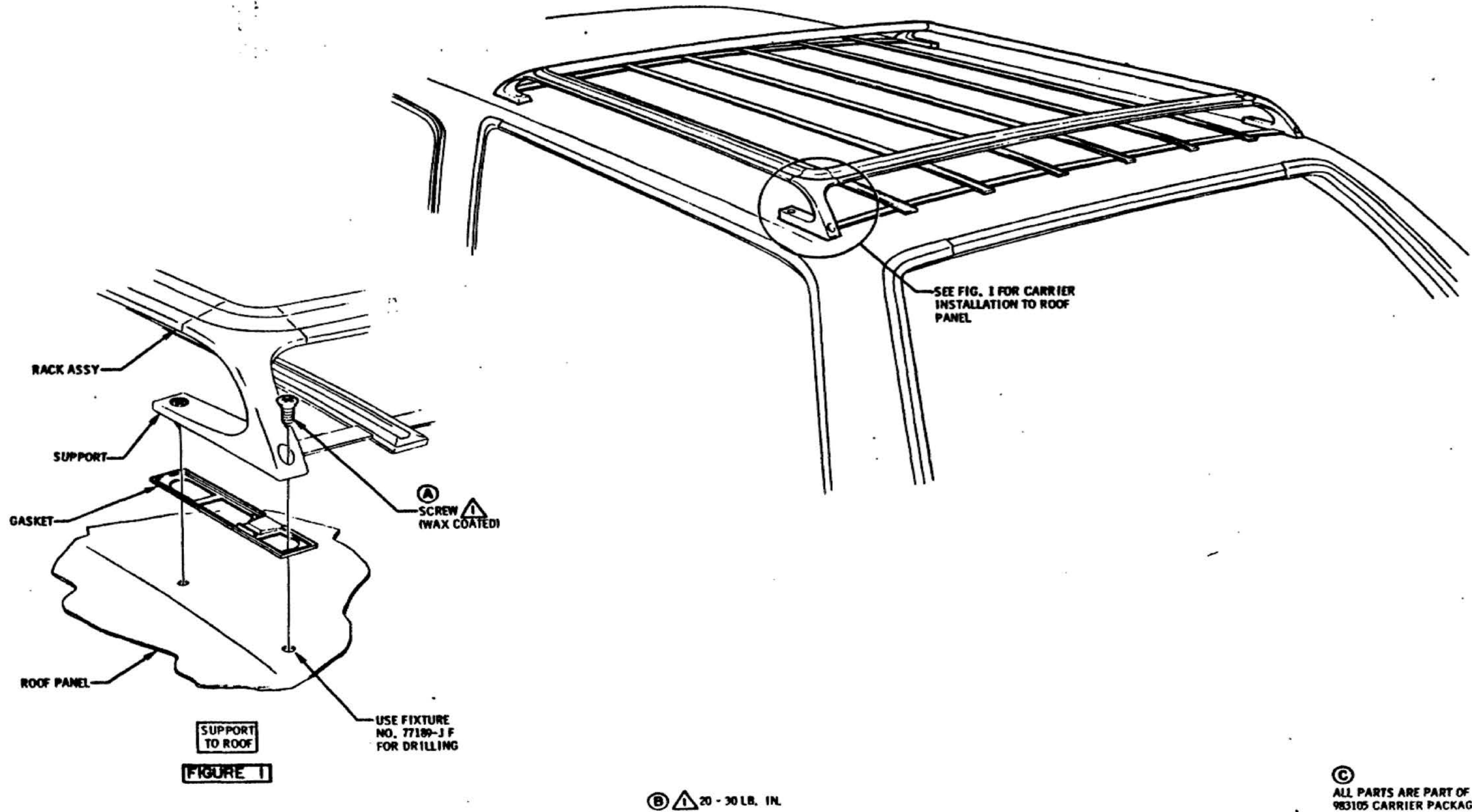


SECTION A-A

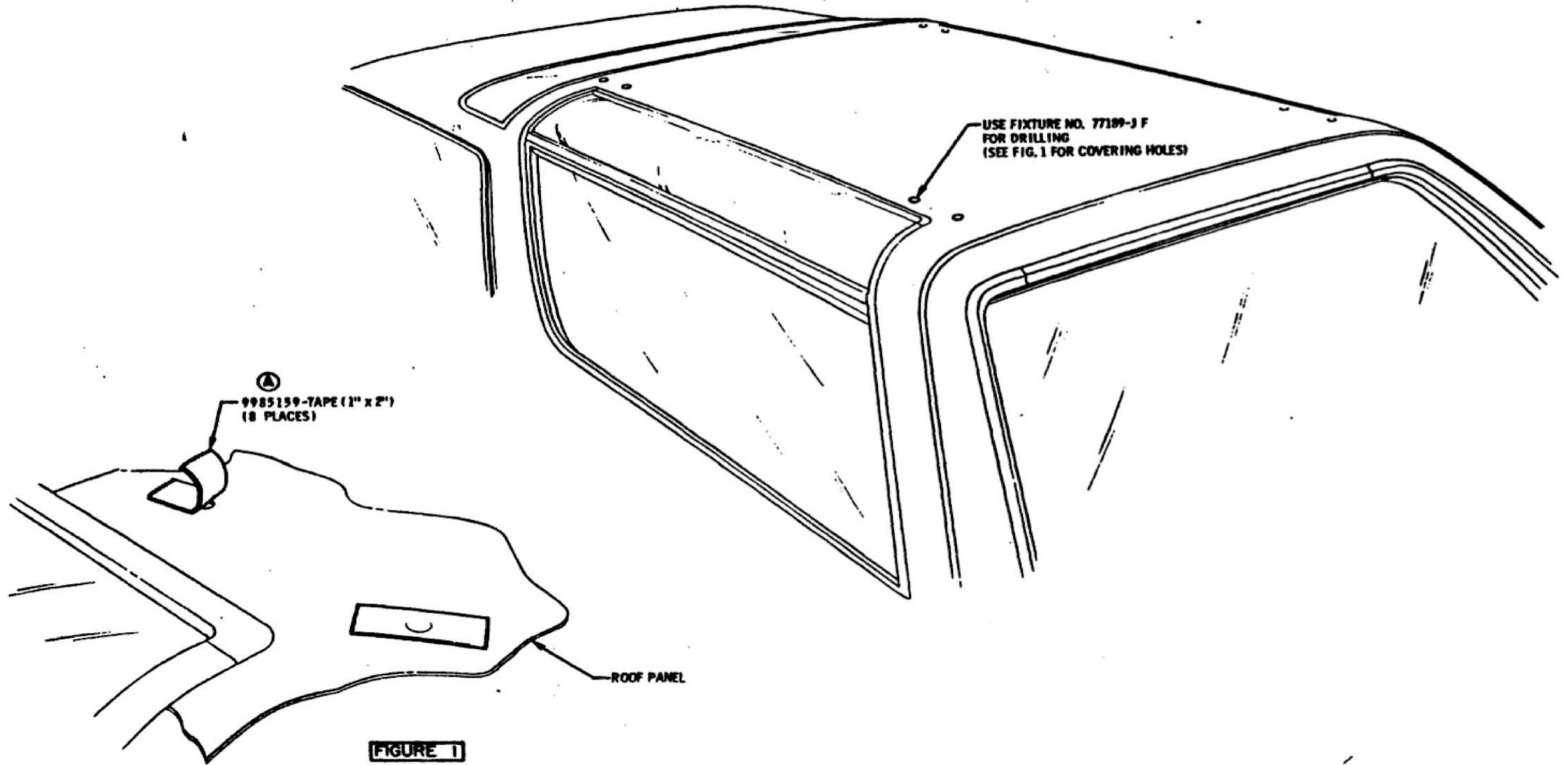
(A) ALL PARTS ARE PART OF 983105 CARRIER PACKAGE

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

										TITLE LUGGAGE CARRIER - STATION WAGON (EXC. 4800)		FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 1-4	PAGE 380		
										DATE <i>RUE. 2. 1968</i>	CHECKED <i>J.H.H.</i>		SERIES A		PART NO. 401900				
										DR. BY <i>L. J. ...</i>	APPR. <i>C. J. ...</i>		REF. <i>3-2-68</i>						
										DATE <i>8/8/68</i>									
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.



DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	TITLE	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	PART NO.	
																LUGGAGE CARRIER - STATION WAGON (EXC. 4800)	1969	35V55	A	1-4	381	401900	
																NOTE REVISED							
																TORQUE ADDED							
																FASTENING REVISED							
																APPR. <i>[Signature]</i>							
																APPR. <i>[Signature]</i>							



USE FIXTURE NO. 77189-J F
FOR DRILLING
(SEE FIG. 1 FOR COVERING HOLES)

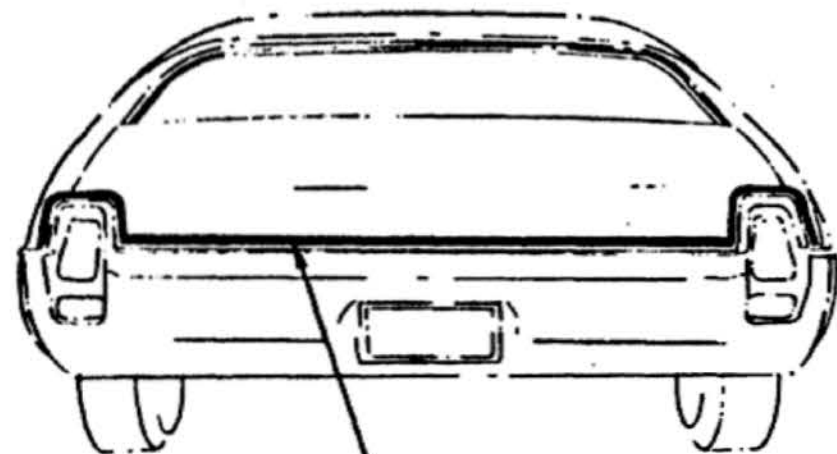
9985159-TAPE (1" x 2")
(8 PLACES)

ROOF PANEL

FIGURE 1

(DRILL & TAPE ONLY)

												TITLE LUGGAGE CARRIER (4800 MODELS ONLY)							
												DATE	FIRST USED	OLDSMOBILE PRODUCT		MANUAL SEC.	PAGE		
												1968	1969	INFORMATION MANUAL		1-4	382		
												CHECKED	RET.	SERIES	PART NO.				
												APPR. <i>C. J. P.</i>	3-ELV-010	A	401900				
												APPR. <i>SM</i>	8/8/68						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.



DECK LID PAINT STRIPE
SEE FIGURE 1

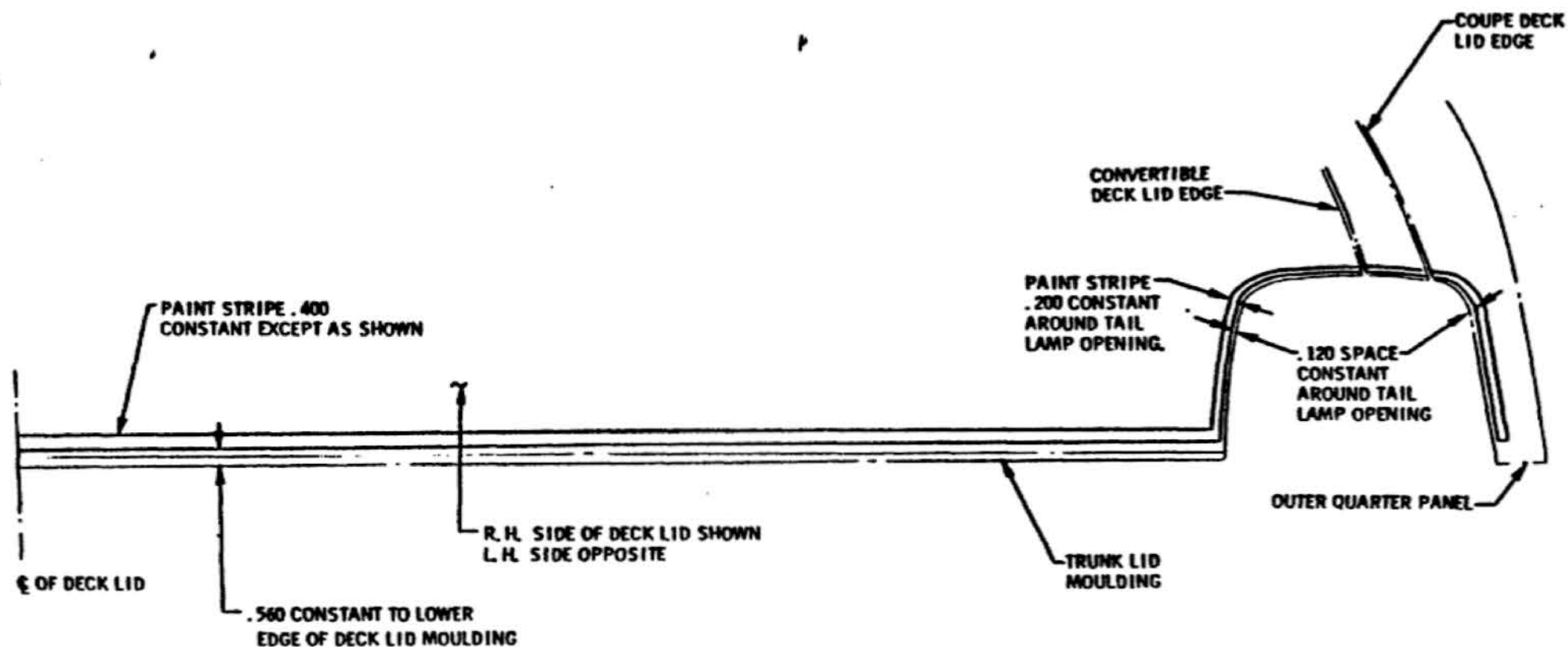
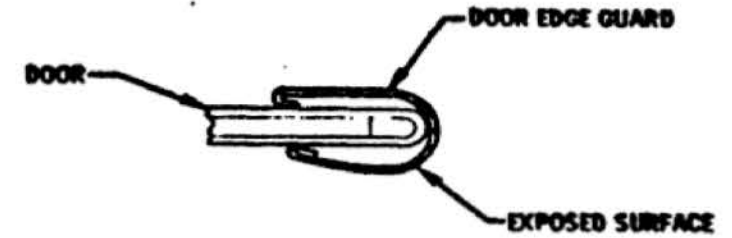
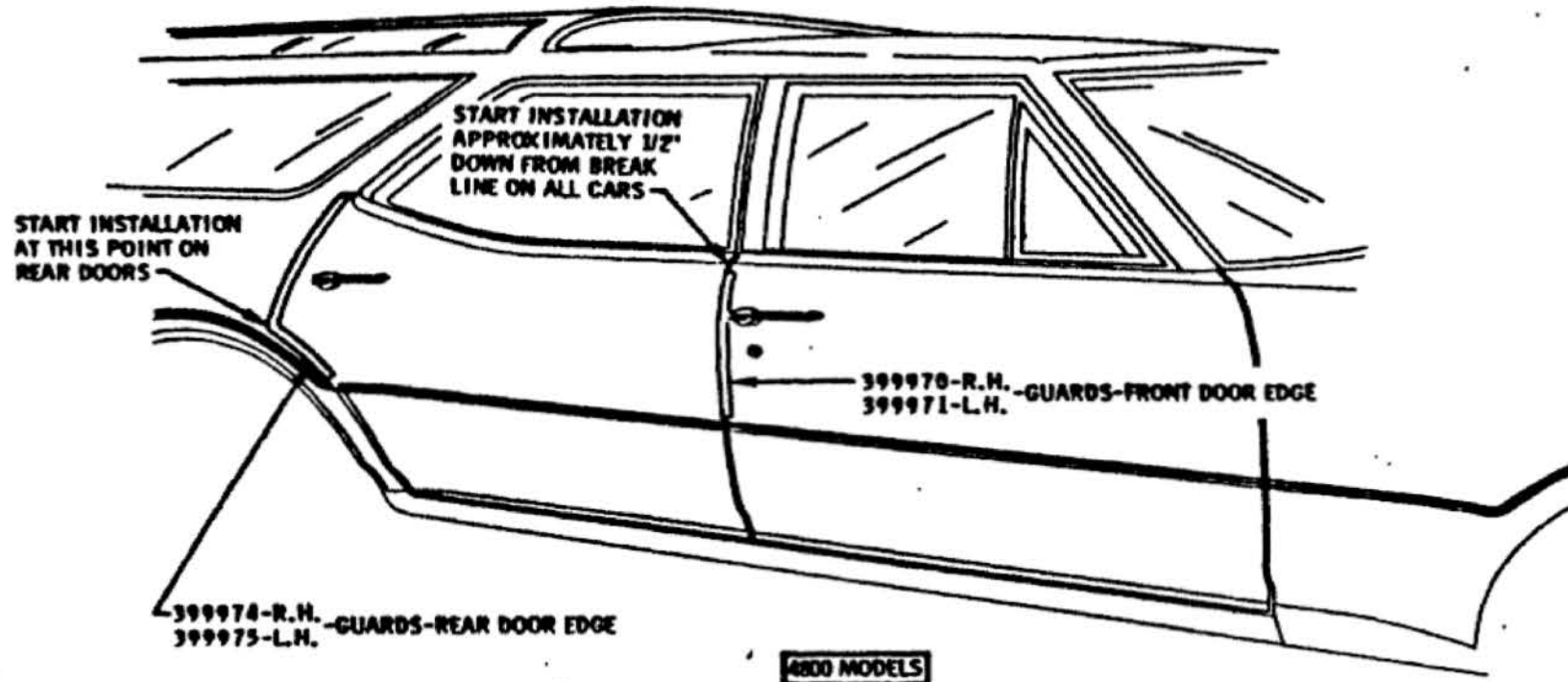


FIGURE 1

NOTE: SEE CHART IN SECTION
O-PAGE 109 FOR PAINT STRIPE
USAGE.

(REF) LAYOUT NO. 402917

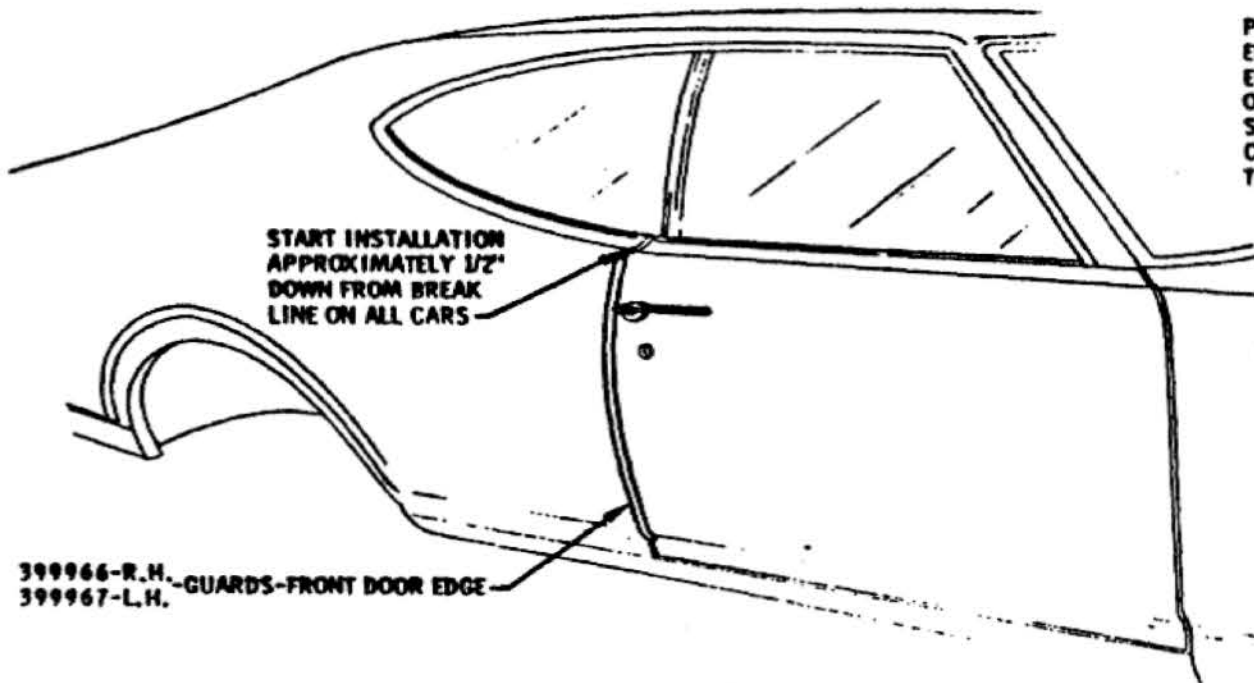
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
																					REAR DECK PAINT STRIPE	1969		1-4	402	A	401900
																					DATE: NOV 12 1968 DR. BY: B. PARKER CHECKED: J. J. J. APPR: J. J. J.						



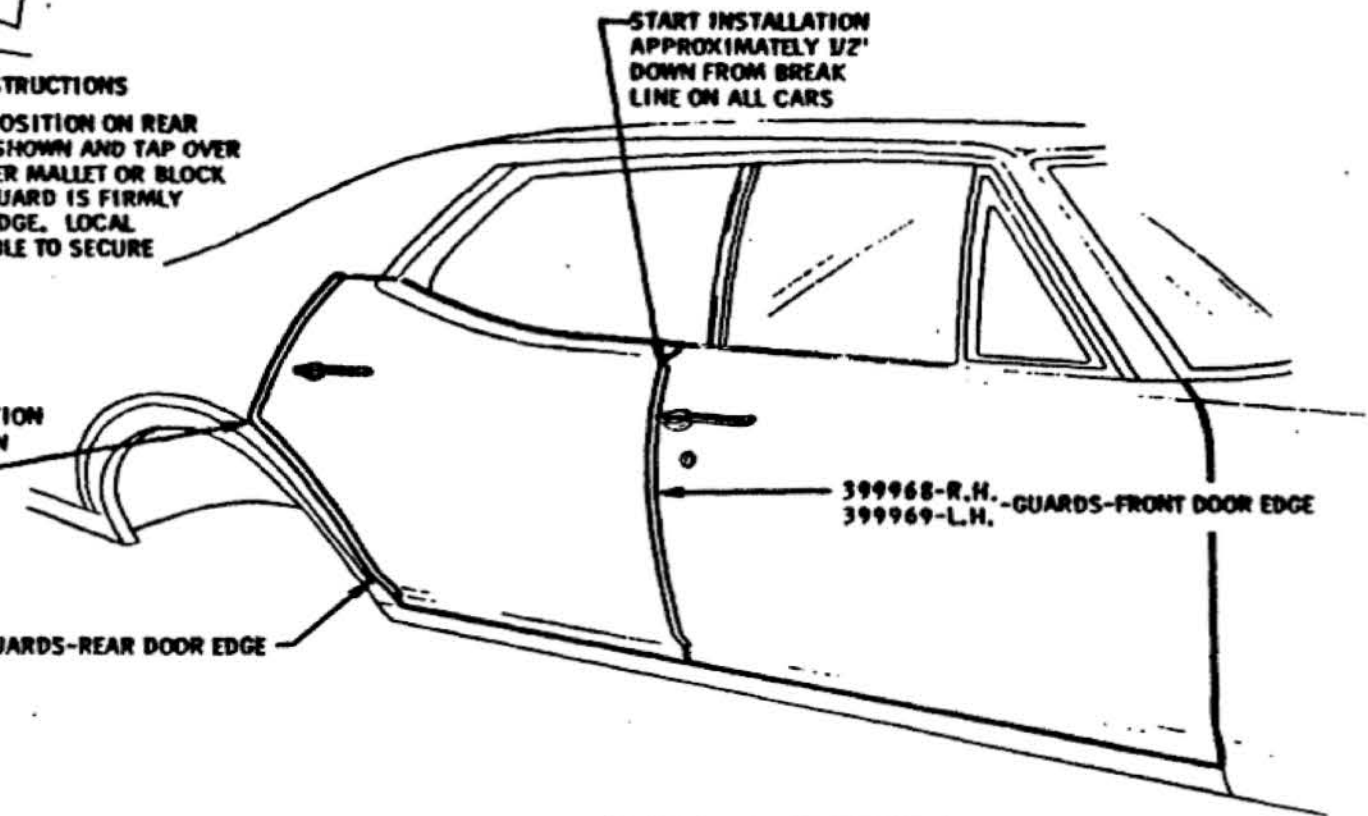
TYPICAL SECTION THRU REAR EDGE OF DOOR AND DOOR GUARD

4800 MODELS

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 AND STATION WAGONS EXC. 4800

REVISION										TITLE										
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	
										TITLE DOOR EDGE GUARDS DATE JAN. 22 1968 DR. BY P.J. MIRESSY CHECKED [Signature] APPR. [Signature] DATE 5/1/68										
										FIRST USED 1969 REF. 36893		OLDSMOBILE PRODUCT INFORMATION MANUAL SERIES A		MANUAL REC. PAGE 1-4 410		PART NO. 401900				



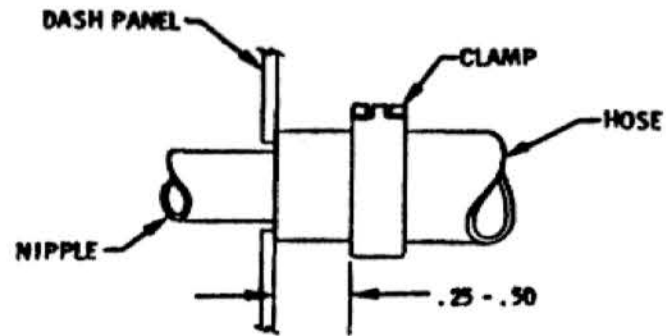
SECTION 1-5 HOSE AND CABLE

- 110 HEATER HOSES AND CABLES**
- 116 SPEEDOMETER CABLE**
- 120 WINDSHIELD WASHER HOSES**
- 210 AIR CONDITIONING HOSES AND CLAMPS**
- 350 35K30 HOSES**
- 370 35A91 AND A93 VACUUM HOSES**
- 500 AIR INDUCTION SYSTEM**

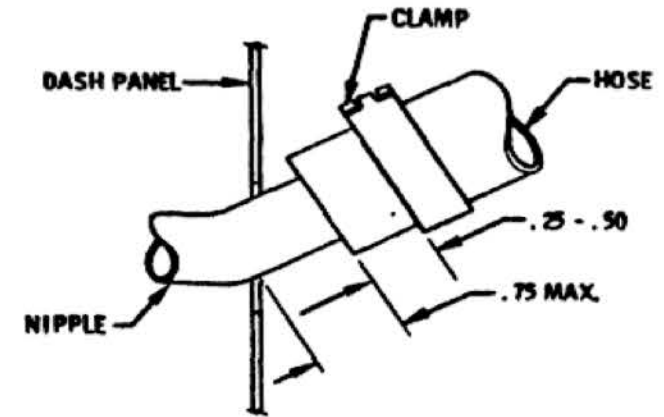
DATE 6-17-68

MANUAL NO. 401900

SERIES A

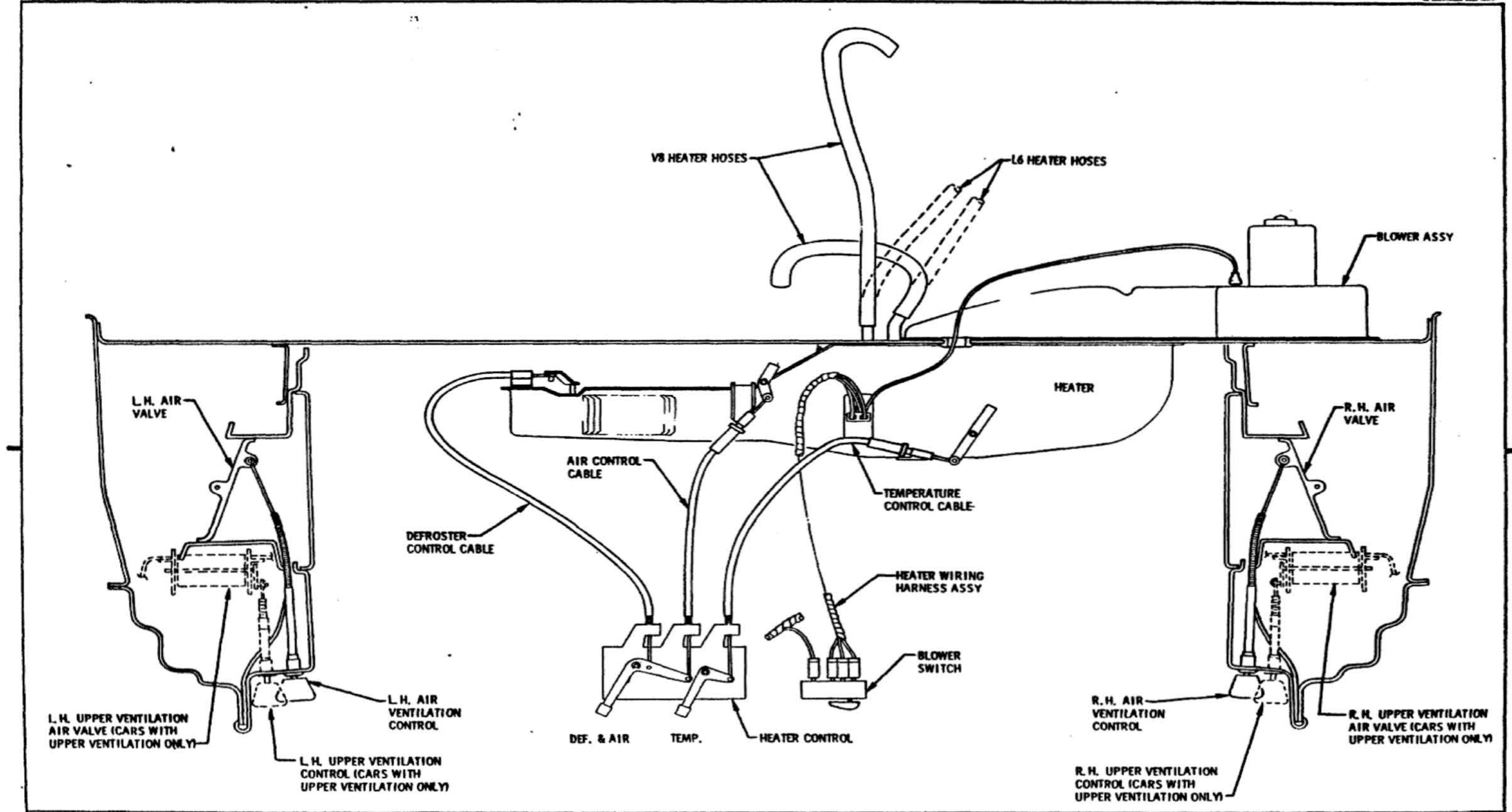


(A) FIGURE 1
TYPICAL SECTION THRU
DASH PANEL AT CORE
NIPPLE (STRAIGHT)



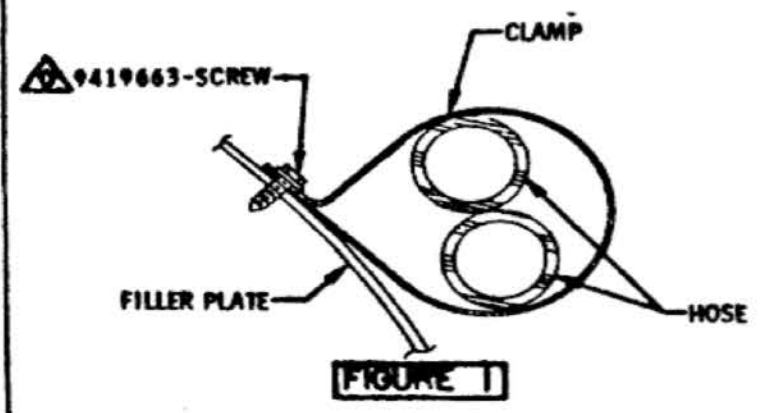
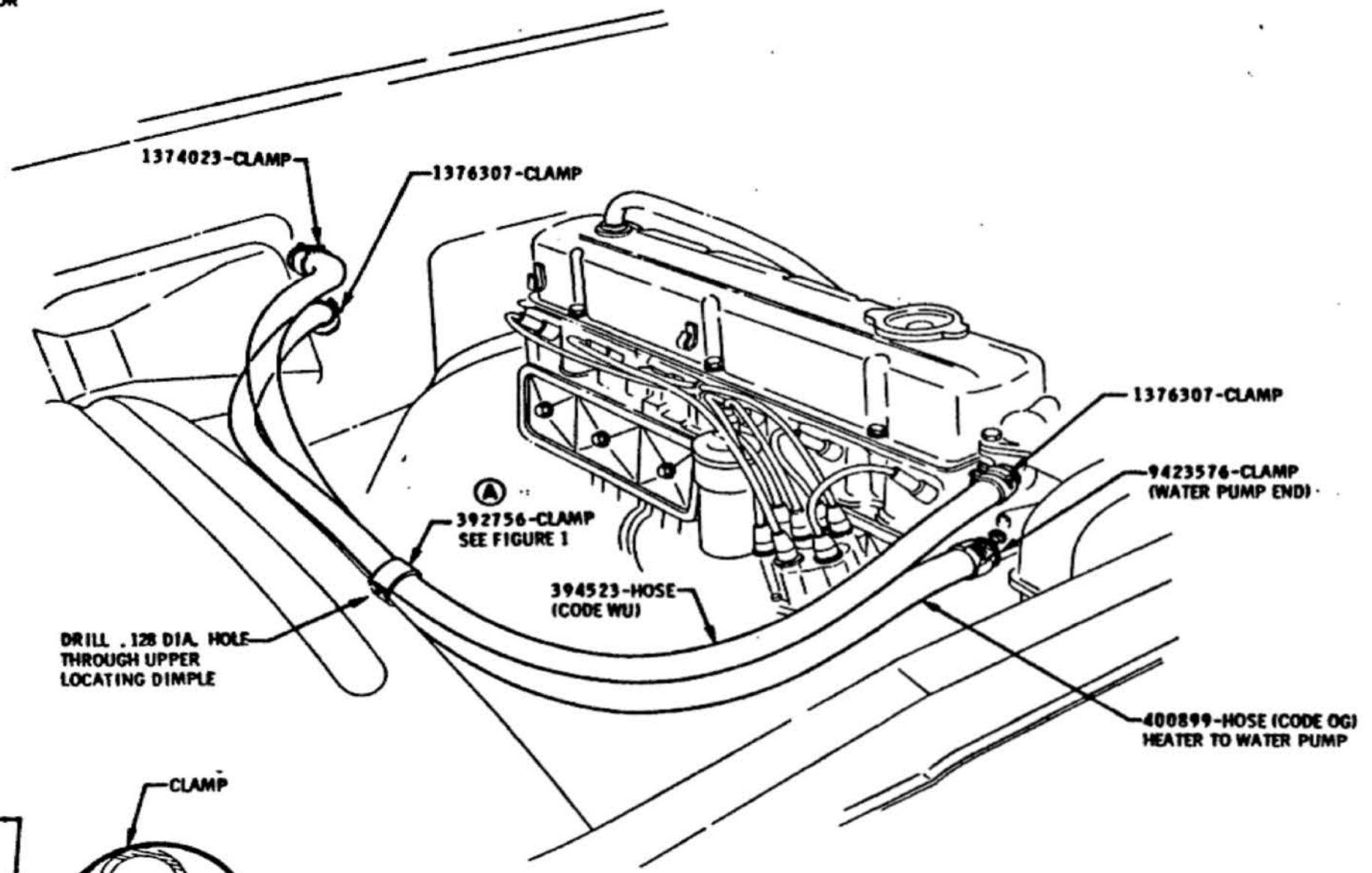
(B) FIGURE 2
SECTION THRU DASH PANEL
AT CORE NIPPLE (ANGULAR)
("A" CAR ONLY)

										TITLE CHART - HEATER HOSE CONNECTION				
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
										JUNE 19 1969	1969	INFORMATION MANUAL	1-5	105
										DR. BY	CHECKED	APPR.		
										P. J. MERESSY	[Signature]	K. E. Malachuk		
										6-26-68	B	NOTE REVISED		
										6-26-68	A	VIEW REVISED		
										REF.	SERIES	PART NO.		
											A-R-C-F	401900-1-2		



										TITLE		HEATER CABLE AND HOSE DIAGRAM				
										DATE	DEC. 18 1967	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
										DR. BY	JOSEPH V. GALL	REF.	1A2C	SERIES	A	401900
										CHECKED	<i>[Signature]</i>					
										APPR.	<i>[Signature]</i>					
DATE	BY	REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	DATE	SYM.

SEE PAGE 105 FOR HEATER HOSE CONNECTIONS TO HEATER

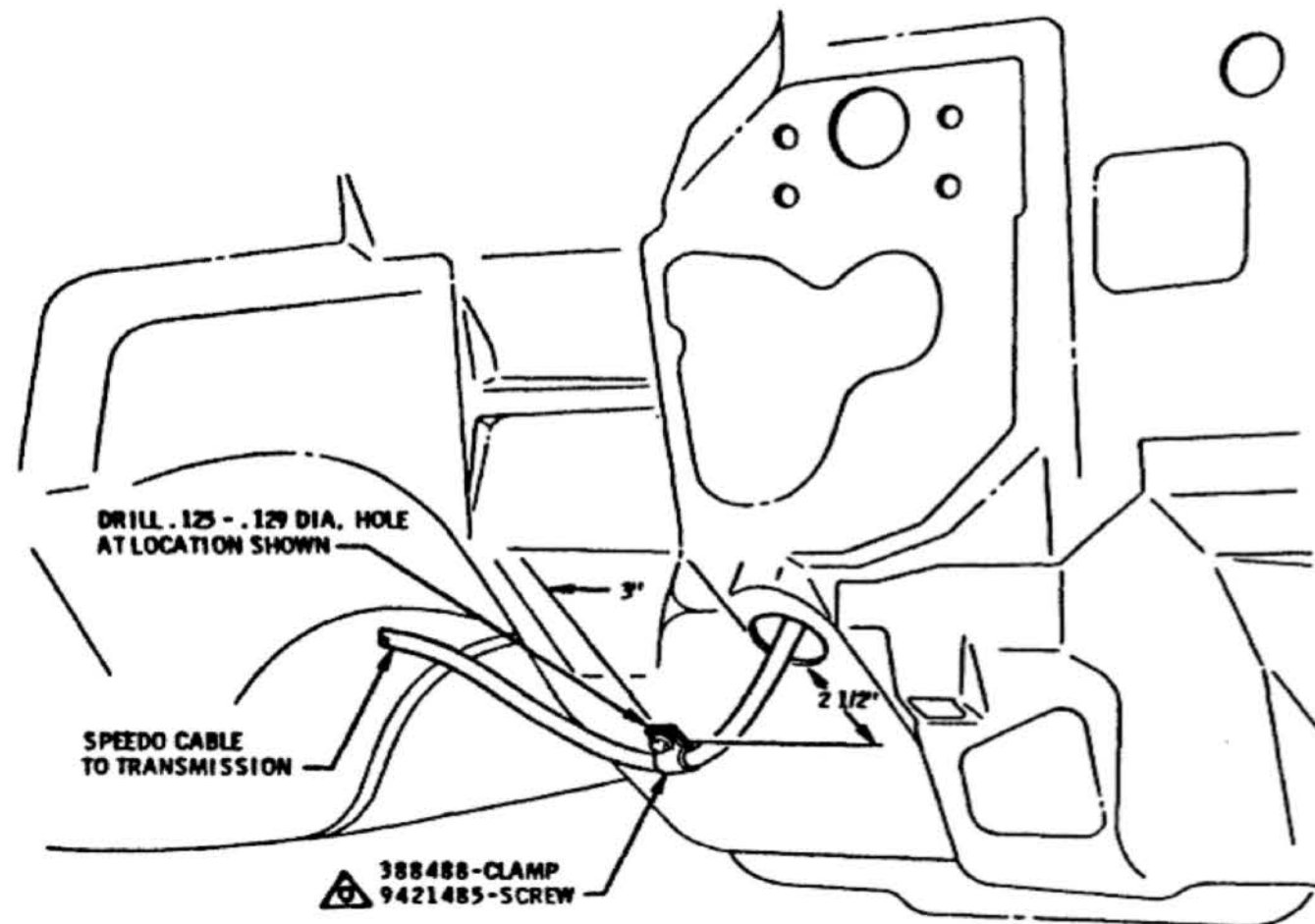


▲ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

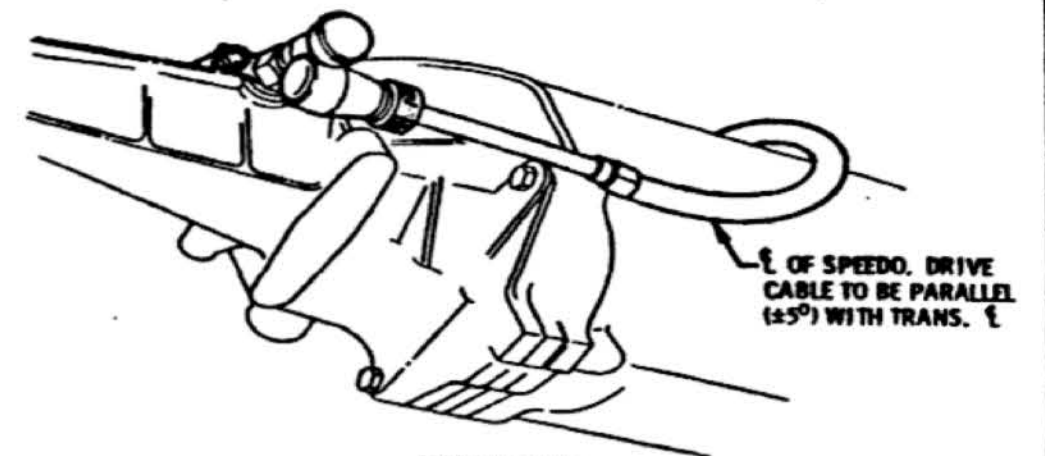
WITHOUT AIR CONDITIONING

TITLE										HEATER WATER HOSES - L6	
DATE										DEC. 18, 1967	
DR. BY										JOSEPH V GALL	
CHECKED										JTB	
FIRST USED										1969	
OLDSMOBILE PRODUCT INFORMATION MANUAL										MANUAL SEC. PAGE	
										1-5 114	
SERIES										PART	

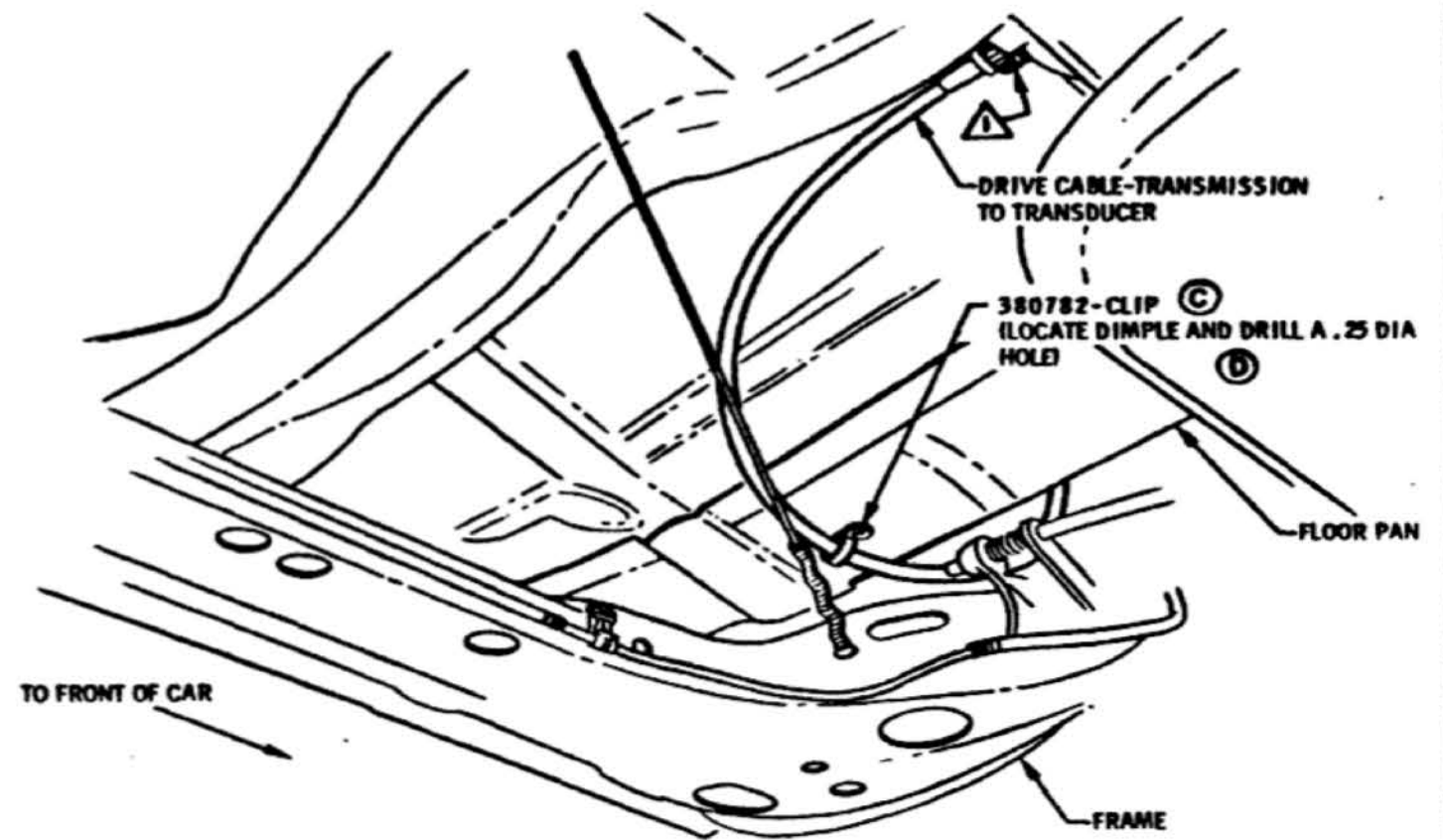
6-13-68 B NOTE ADDED
A WAS ADDED CLIP



(SEE PAGE 116)
VIEW A
(5M FLOOR SHIFT ONLY)



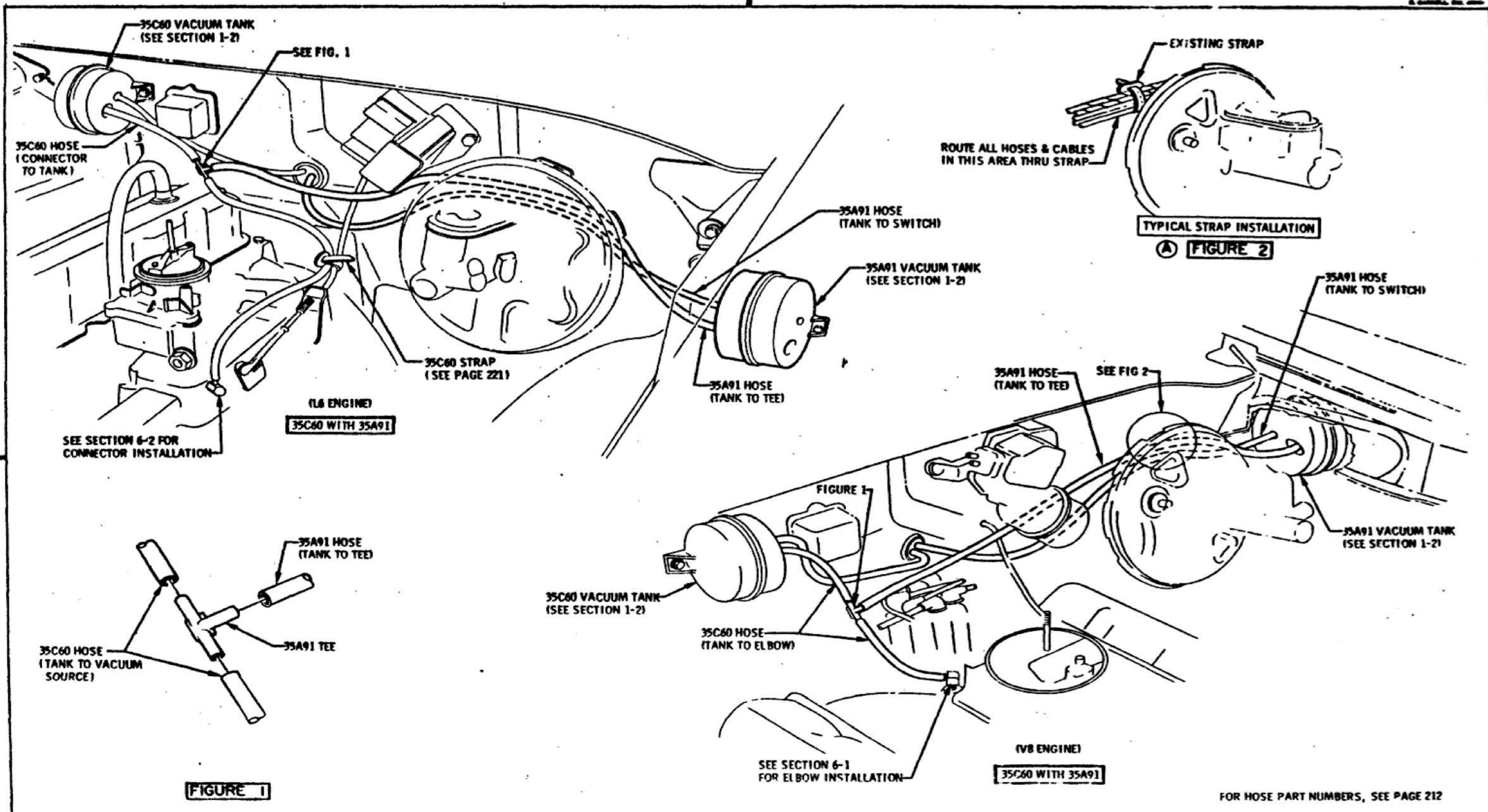
(SEE PAGE 116)
VIEW B
(4 SPEED EXC. 35G88)



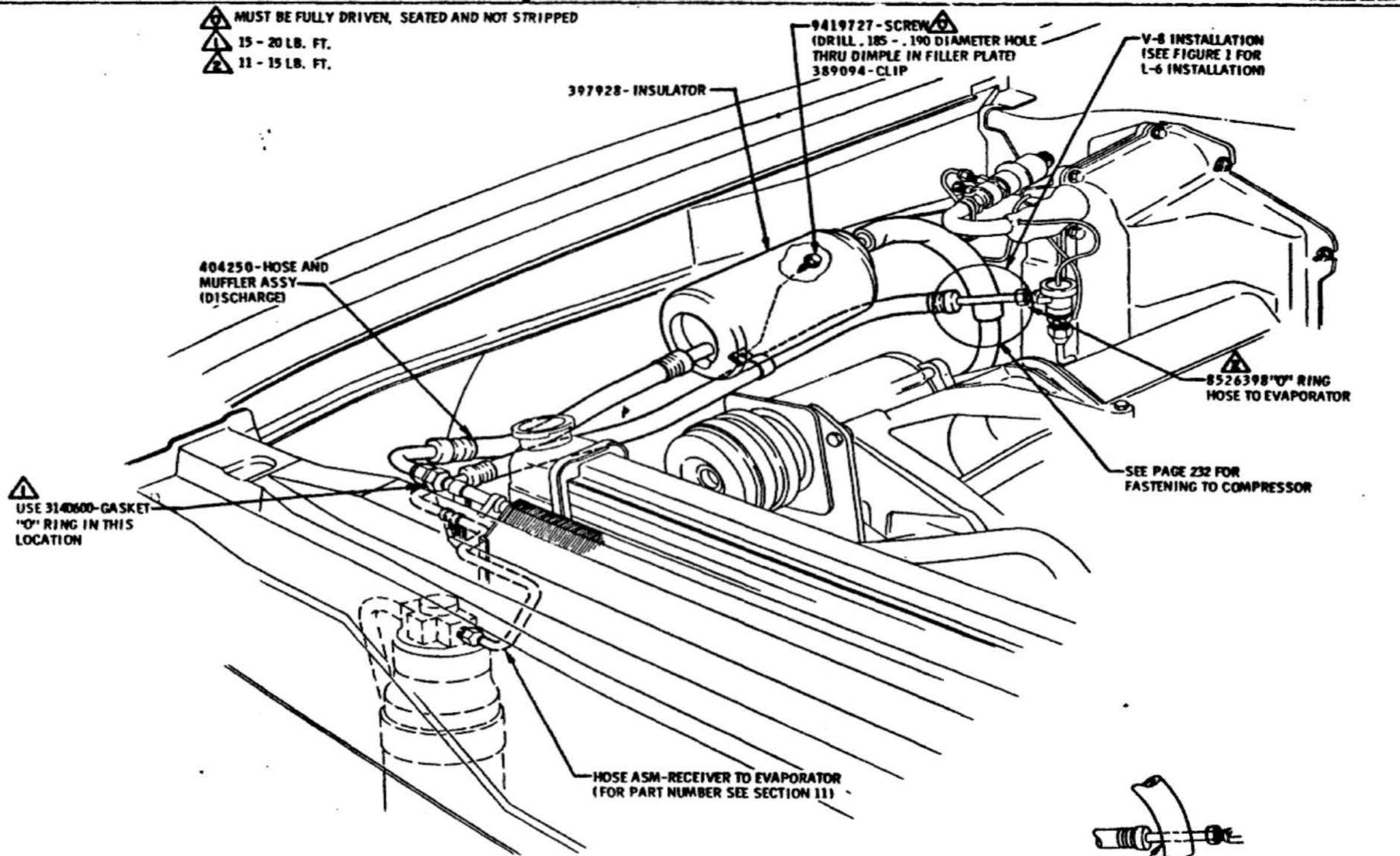
(SEE PAGE 116)
VIEW D
(35K30 ONLY)

- ⚠ 20 - 80 LB. IN. ⓐ
- ⚠ MUST BE FULLY DRIVEN. SEATED AND NOT STRIPPED.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.	
					12-12-68	D	SEALER NOTE MOVED TO III	JR	DT							SPEEDOMETER CABLE ROUTING	1969		1-5	117	A	401900	
					9-5-68	C	WAS 380762 CLIP	JR	DT							DATE JULY 22 1968 DR. BY P.J. MCKESSY							
					9-5-68	B	TORQUE ADDED	JR	DT							CHECKED [Signature]							
					8-9-68	A	VIEW "D" ADDED -	JR	DT							APPR. [Signature]							



TITLE 35C60 HOSE ROUTING (ENGINE COMPARTMENT) WITH 35A91										
DATE 2/15/68					FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 1-5	PAGE 224
DR. BY JOSEPH V. G...					CHECKED [Signature]		SERIES A		PART NO. 401900	
3/21/68 A FIG 2 ADDED					RET 35A91 35C60					
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION



⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED
 ⚠ 15 - 20 LB. FT.
 ⚠ 11 - 15 LB. FT.

9419727-SCREW
 (DRILL .185 - .190 DIAMETER HOLE
 THRU DIMPLE IN FILLER PLATE)
 389094-CLIP

V-8 INSTALLATION
 (SEE FIGURE 1 FOR
 L-6 INSTALLATION)

397928-INSULATOR

404250-HOSE AND
 MUFFLER ASSY
 (DISCHARGE)

8526398 "O" RING
 HOSE TO EVAPORATOR

⚠ USE 3140600-GASKET
 "O" RING IN THIS
 LOCATION

SEE PAGE 232 FOR
 FASTENING TO COMPRESSOR

HOSE ASM-RECEIVER TO EVAPORATOR
 (FOR PART NUMBER SEE SECTION 11)

NOTE

Ⓜ V-8 SHOWN, L-6 INSTALLATION
 SIMILAR EXCEPT AS NOTED

L-6 LIQUID LINE BEHIND
 DISCHARGE LINE

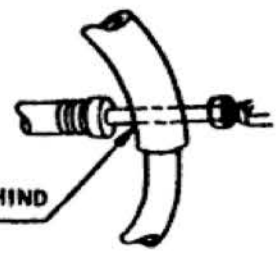
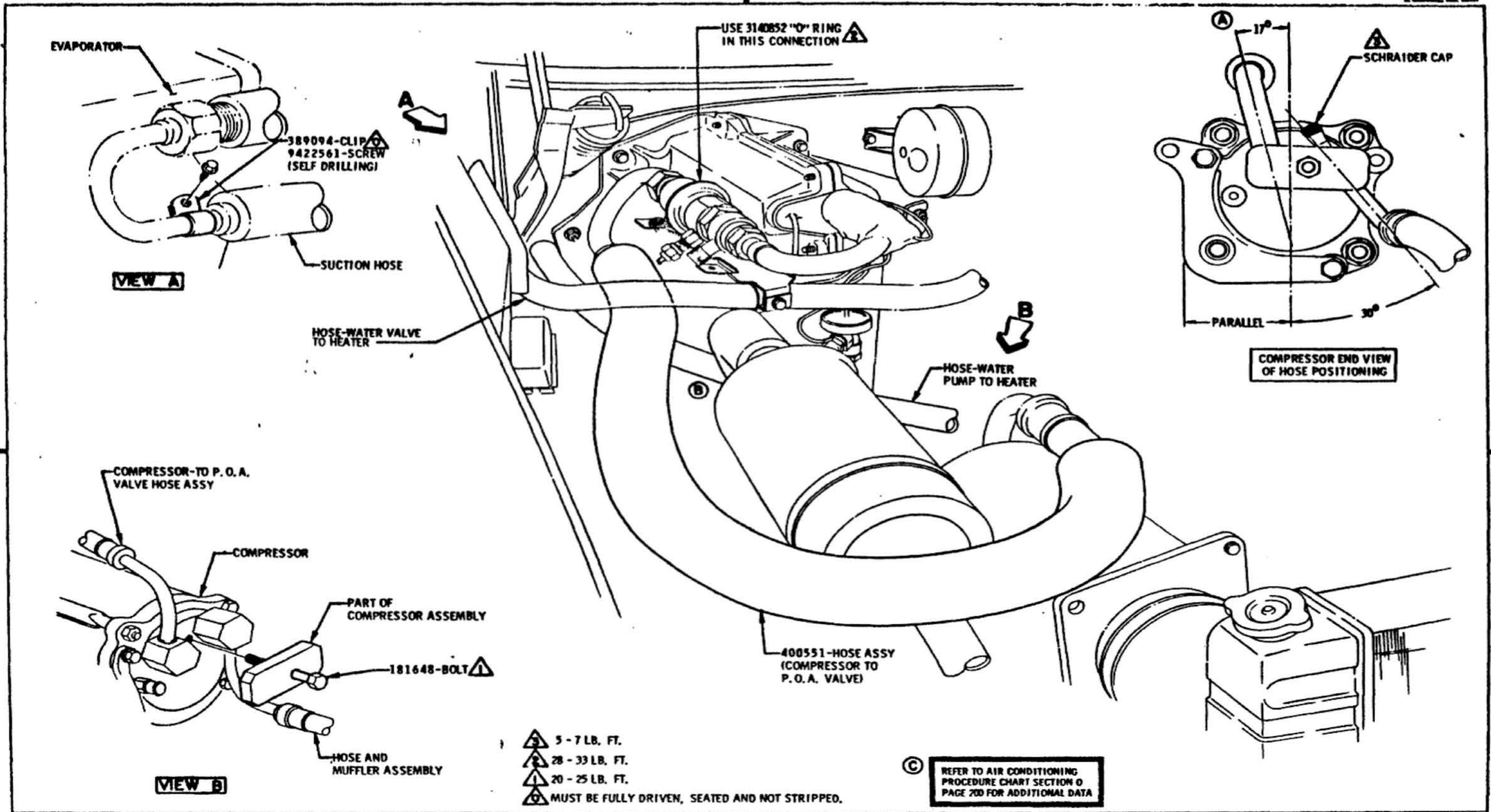


FIGURE 1 Ⓜ

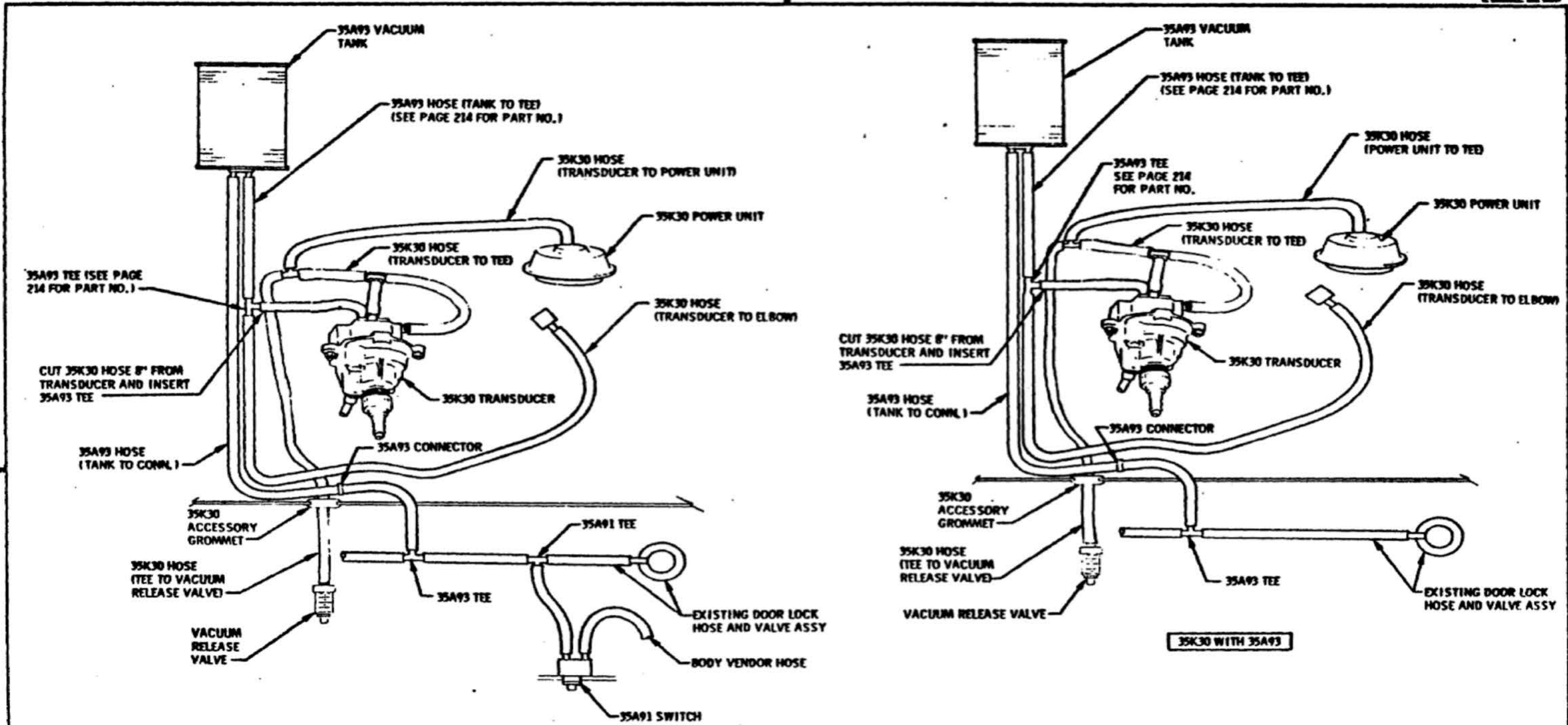
Ⓜ REFER TO AIR CONDITIONING
 PROCEDURE CHART SECTION O
 PAGE 200 FOR ADDITIONAL DATA

				REVISIONS				TITLE				AIR CONDITIONING MUFFLER AND HOSES			
DATE	BY	REASON	PL	DT	DATE	BY	REASON	PL	DT	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE		
1-30-68	J	NOTE ADDED	PL	DT	9-4-68	E	WAS 9419303-SCREW	PL	DT	1969	1-5	230			
1-2-69	H	NOTE REVISED	PL	DT	9-4-68	D	WAS 402455-INSUL.	PL	DT	REF. 35C60					
1-8-69	G	FIGURE 1 ADDED	PL	DT	9-2-68	C	397928 INSL. REMOVED	PL	DT	DR. BY P. Locatelli					
10/1/68	F	NOTES REVISED & NOTE ADD.	PL	DT	6-22-68	B	WAS 398392 HOSE ASSY	PL	DT	CHECKED <i>Tha</i>	SERIES A				
			PL	DT	5-22-68	A	WAS 9419727 SCREW	PL	DT	APPR. <i>M. Malubog</i>	PART NO. 401900				



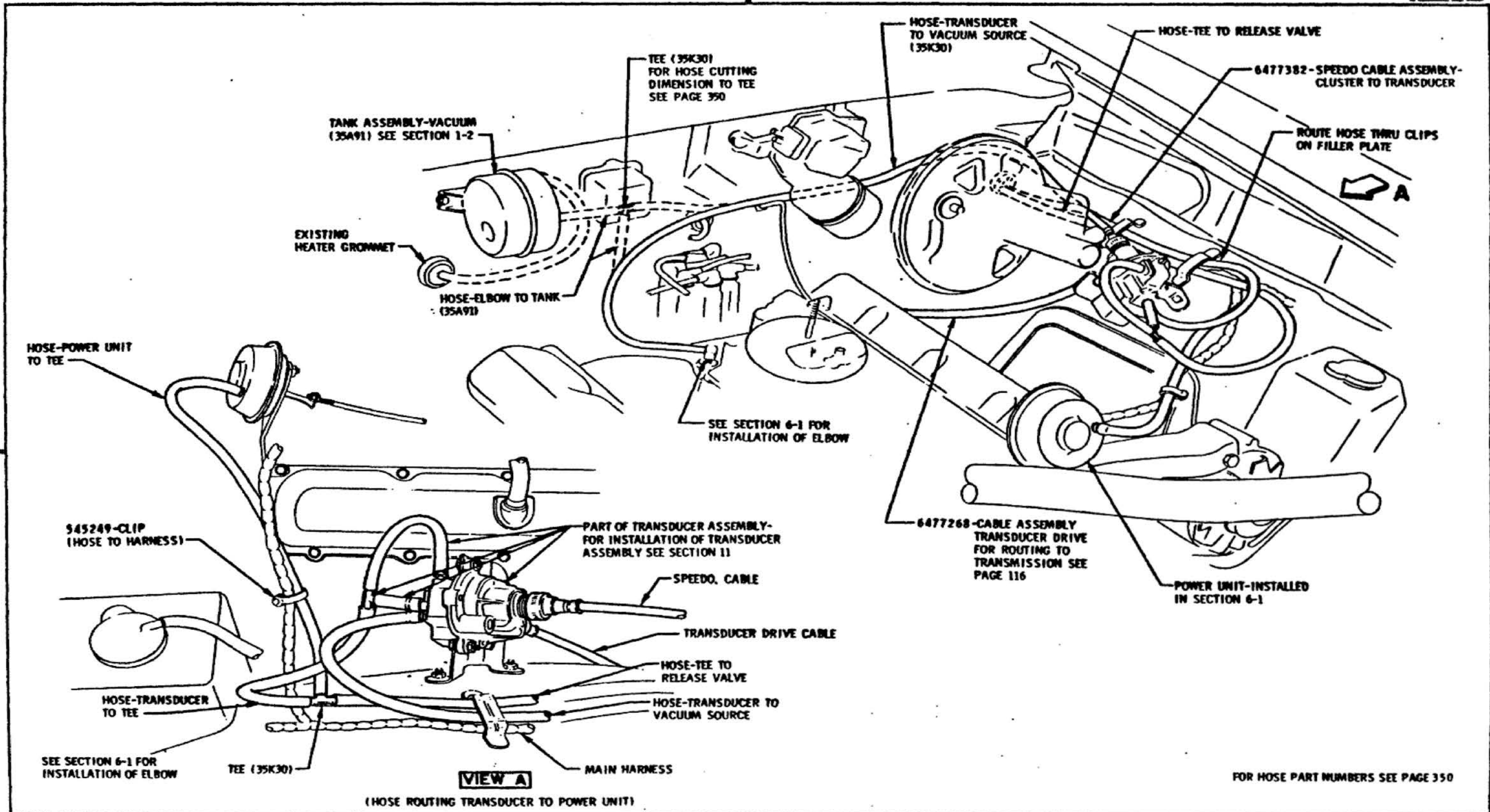
REFER TO AIR CONDITIONING PROCEDURE CHART SECTION O PAGE 200 FOR ADDITIONAL DATA

TITLE										POA VALVE HOSE & HOSES TO COMPRESSOR			
1-58-69	G	NOTE ADDED	DR.	DR. BY JOSEPH V GALL	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	1-5	PAGE	232		
6-57-68	B	HOSE REPOSITIONED	PL	CHECKED	REF	35660	SERIES	A	PART NO.	401900			
6-19-68	A	WAS 10°	APP	APP.									



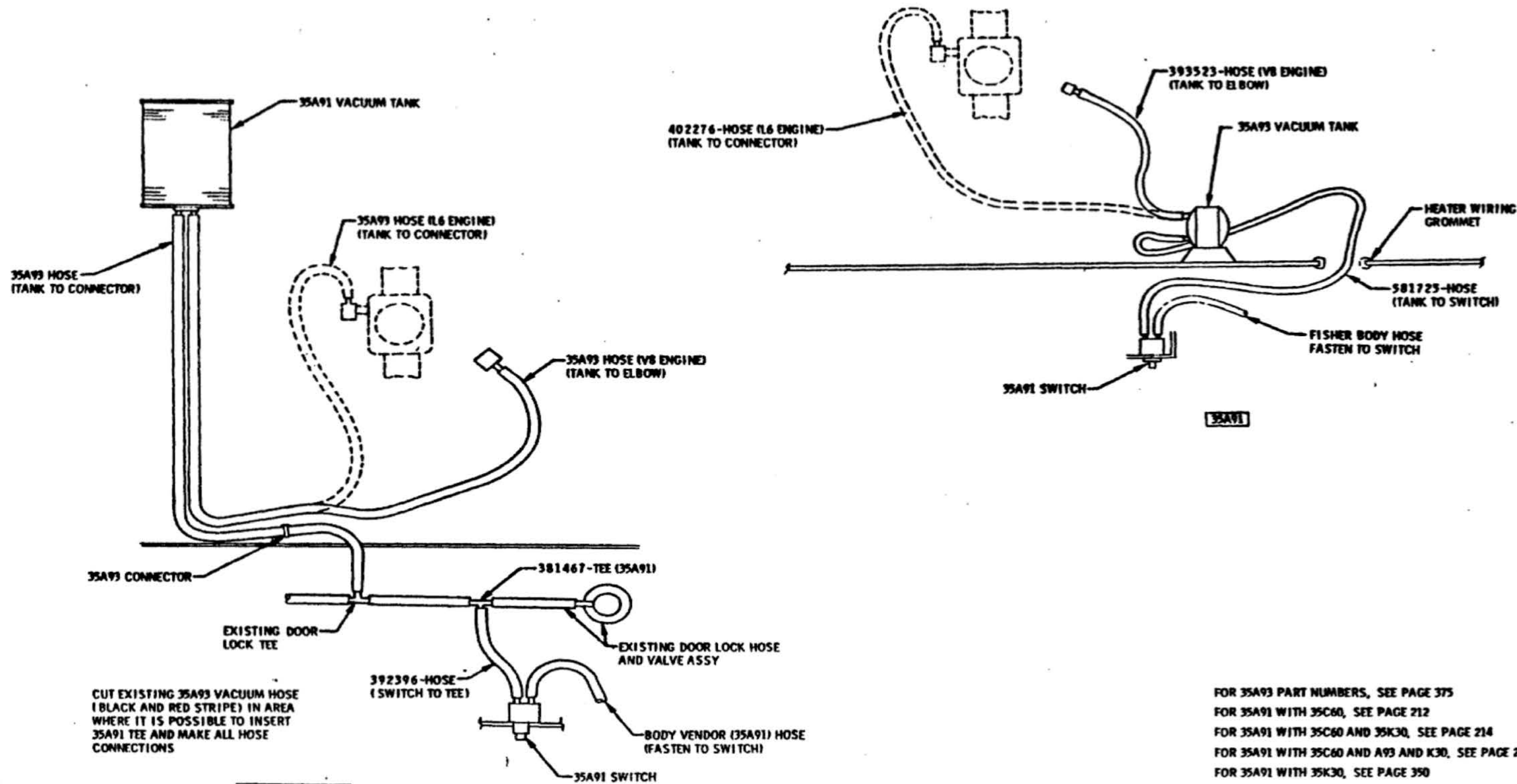
FOR 35K30 PART NUMBERS, SEE PAGE 390
 FOR 35K30 WITH 35A91, 35A93 AND 35C80, SEE PAGE 216
 FOR 35K30 WITH 35A93 AND 35C60, SEE PAGE 214
 FOR 35K30 WITH 35A91, SEE PAGE 350
 FOR 35A93 PART NUMBERS, SEE PAGES 214 AND 375
 FOR 35A91 PART NUMBERS, SEE PAGE 370

REVISION										REVISION										TITLE									
DR	CK	DATE	SYM	DR	CK	DATE	SYM	DATE	DR. BY	CHECKED	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SCHEMATIC VACUUM HOSE DIAGRAM - 35K30 WITH 35A91/35A93 (V8 ONLY)													
								APR 15 1968	JOSEPH V. GALL			1969		1-5	351														
5-23-68 A REVISED & REDRAWN										REF 35E TO 35A 91 35A 93										SERIES A PART NO. 401900									



FOR HOSE PART NUMBERS SEE PAGE 350

										TITLE 35K30 HOSE ROUTING (ENGINE COMPARTMENT) WITH 35A91 (V8 ONLY)														
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE										
										APR. 15 1968	1969	INFORMATION MANUAL	1-5	353										
										DR. BY JOSEPH V. GALL	CHECKED	REV.	SERIES	PART NO.										
										SEE PAGE A REVISED TO DETAIL	APPR.	A	401900											
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.



FOR 35A93 PART NUMBERS, SEE PAGE 375
 FOR 35A91 WITH 35C60, SEE PAGE 212
 FOR 35A91 WITH 35C60 AND 35K30, SEE PAGE 214
 FOR 35A91 WITH 35C60 AND A93 AND K30, SEE PAGE 216
 FOR 35A91 WITH 35K30, SEE PAGE 350
 FOR 35A91 WITH 35K30 AND 35A93, SEE PAGE 351

DATE	SYN	REVISION	DR	CK	DATE	SYN	REVISION	DR	CK	DATE	SYN	REVISION	DR	CK	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
															SCHMATIC VACUUM HOSE DIAGRAM - 35A91 & 35A91 WITH 35A93	1969		1-5	370
															DATE <i>DEC. 21, 1967</i>				
															DR. BY <i>JOSEPH V. GALL</i>				
															CHECKED <i>JTG</i>				
															APPR. <i>JTG</i>	REF. <i>35A91 35C60</i>	SERIES <i>A</i>	PART NO. <i>401900</i>	

SWITCH (35A91)
SEE SECTION 1-3
FOR INSTALLATION

HOSE-SWITCH TO
VACUUM SOURCE

(B)

BODY VENDOR HOSE
TO TRUNK LID LATCH

FIGURE 1

EXISTING 35A93
HOSE & TEE

SEE FIG. 1

FOR LOCATION OF TEE
SEE PAGE 370

ROUTE FORWARD OF
DEFROSTER NOZZLE

HOSE-SWITCH TO LID LATCH
(INSTALLED BY FISHER BODY)
CONNECT TO GREEN NIPPLE ON
SWITCH

35A91 WITH 35A93

SEE FIG. 1

HOSE-SWITCH TO VACUUM TANK

ROUTE FORWARD OF
DEFROSTER NOZZLE

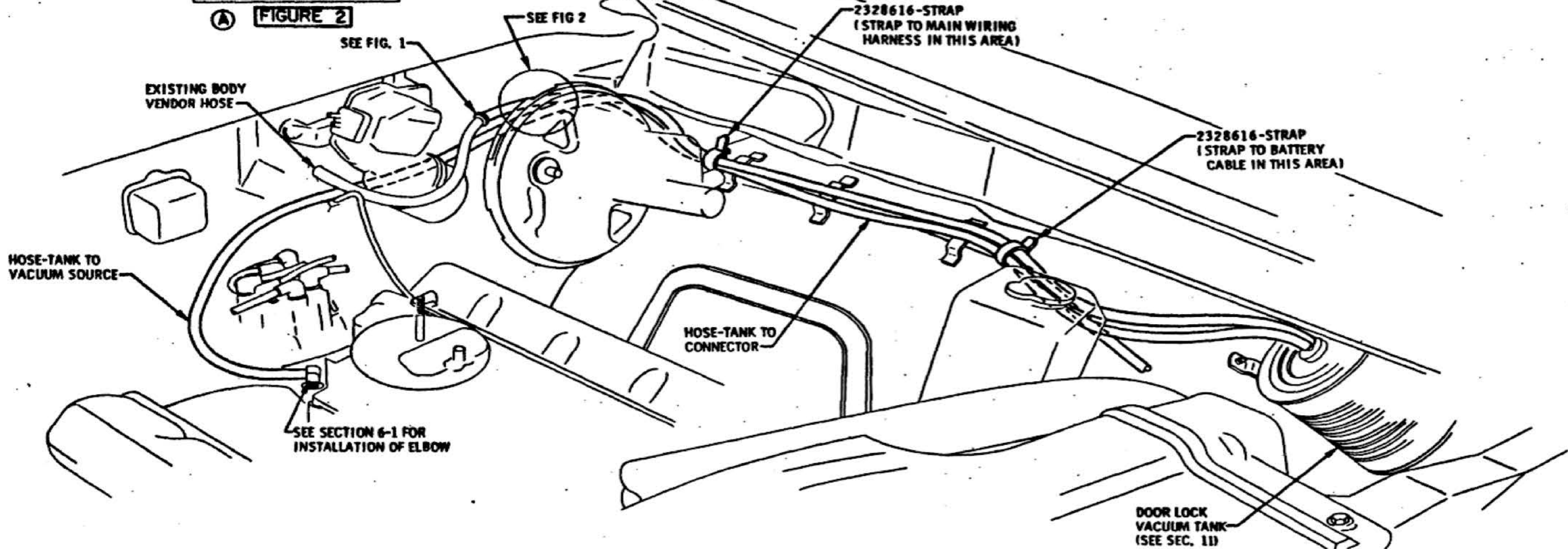
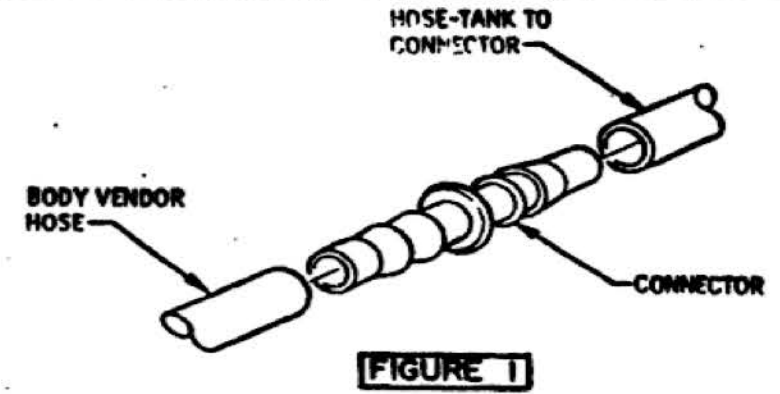
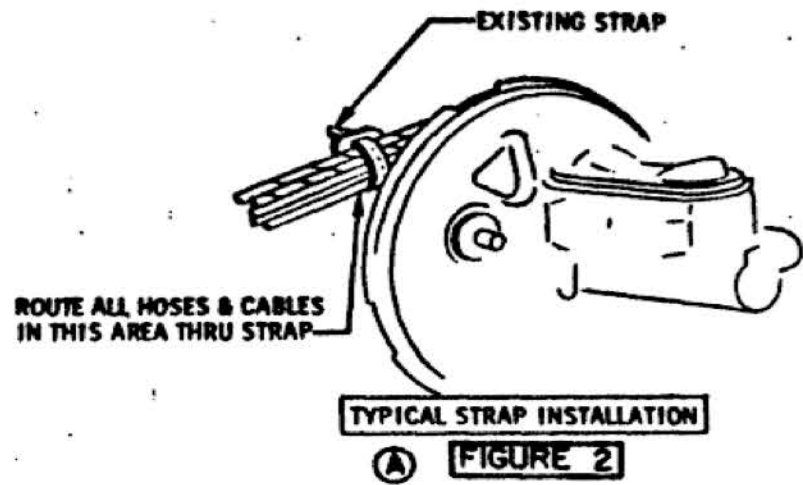
HEATER GROMMET HOLE

HOSE-SWITCH TO LID LATCH
(INSTALLED BY FISHER BODY)
CONNECT TO GREEN NIPPLE ON
SWITCH

35A91 ONLY

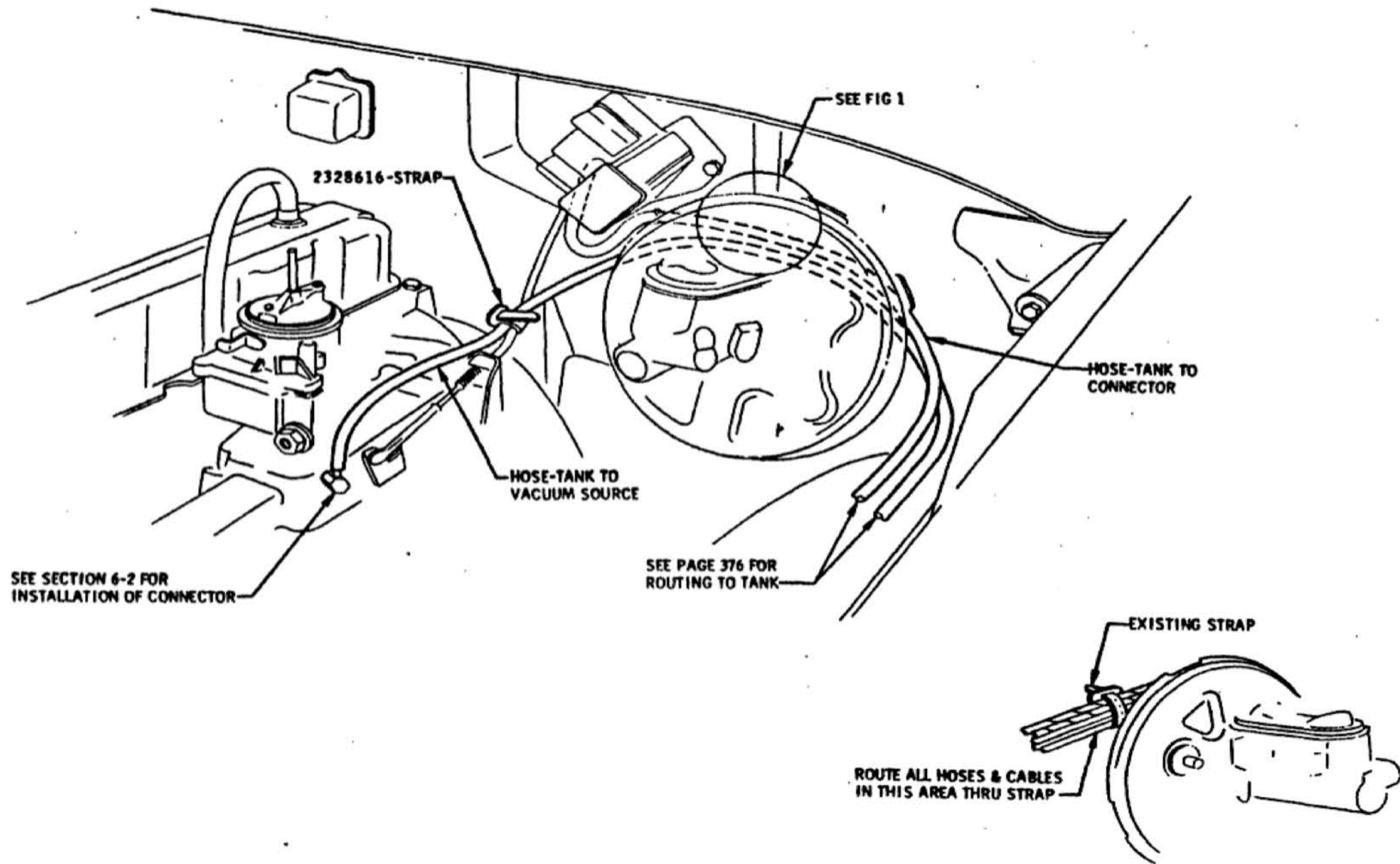
SEE PAGE 370 FOR PART NUMBERS

TITLE												VACUUM HOSE ROUTING (INSIDE CAR) 35A91 & 35A91 WITH 35A93			
DATE	DEC. 21, 1967	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE									
DR. BY	JOSEPH V. GALL	REV		INFORMATION MANUAL	1-5	371									
CHECKED		SERIES	A	PART NO.	401900										
APPR.		35A91													
96-68 B SWITCH ROTATED 180° 97-68 A REVISED & REDRAWN															
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.



FOR 35A93 WITH L6 ENGINES
SEE PAGE 377
FOR REMAINING 35A93 PART
NUMBERS SEE PAGE 375

TITLE										35A93 HOSE ROUTING (ENGINE COMPARTMENT) V8 ONLY														
DATE					DR BY					FIRST USED					OLDSMOBILE PRODUCT INFORMATION MANUAL					MANUAL SEC. PAGE				
APR 15 1968					JOSEPHY GALE					1969					1-5					376				
CHECKED					APPR.					REF.					SERIES					PART NO.				
PLD					7-10-68					35A93					A					401900				
3/24/68 A FIG 2 ADDED										4/16/68														
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK					



TYPICAL STRAP INSTALLATION

(A) FIGURE 1

FOR REMAINING 35A93 PART NUMBERS SEE PAGE 375

										TITLE 35A93 HOSE ROUTING (ENGINL COMPARTMENT) L6 ONLY									
										DATE	APR 10, 1968	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	1-5	PAGE	377	
										DR. BY	JOSEPH GALL	CHECKED	[Signature]	REF.	35A93	SERIES	A	PART NO.	401900
										APPR.	[Signature]	APPR.	[Signature]						
										APPR.	PLG								
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.
						8/14/68				A				FIG 1 ADDED					



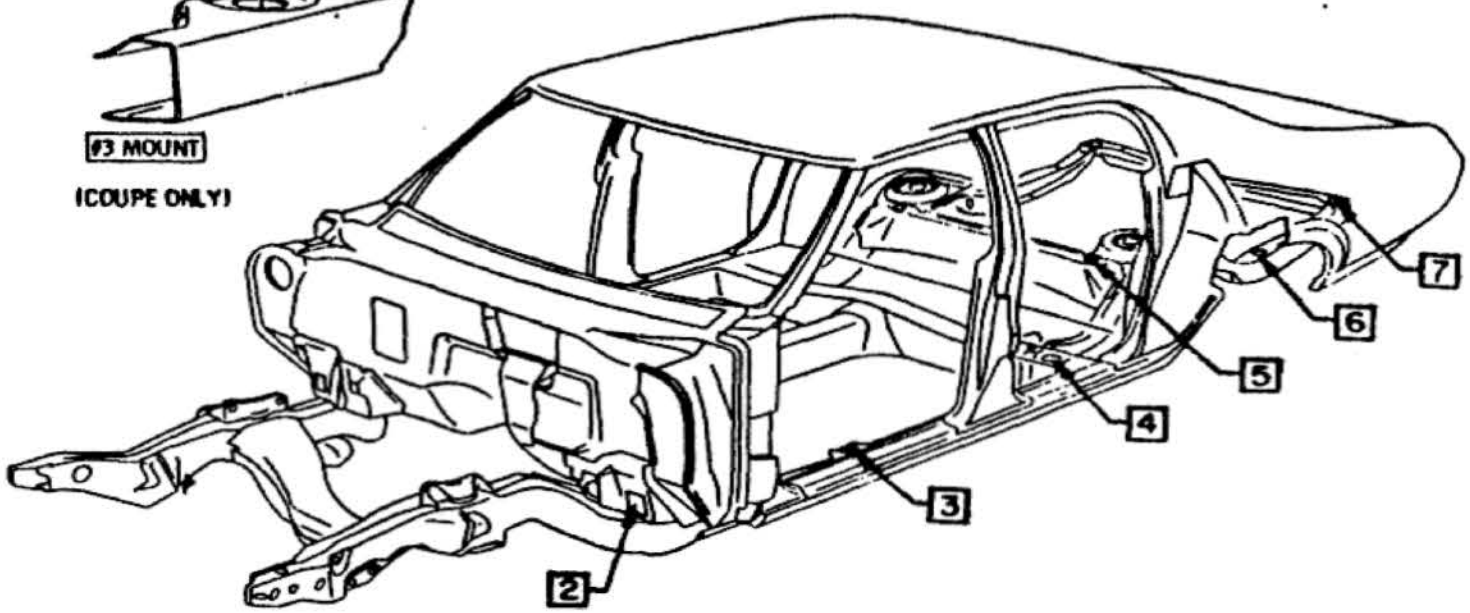
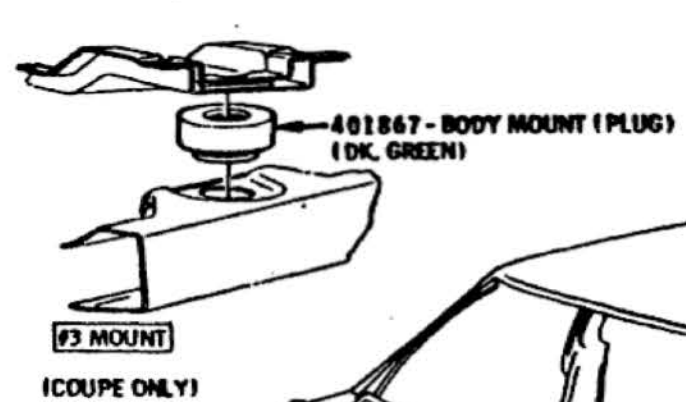
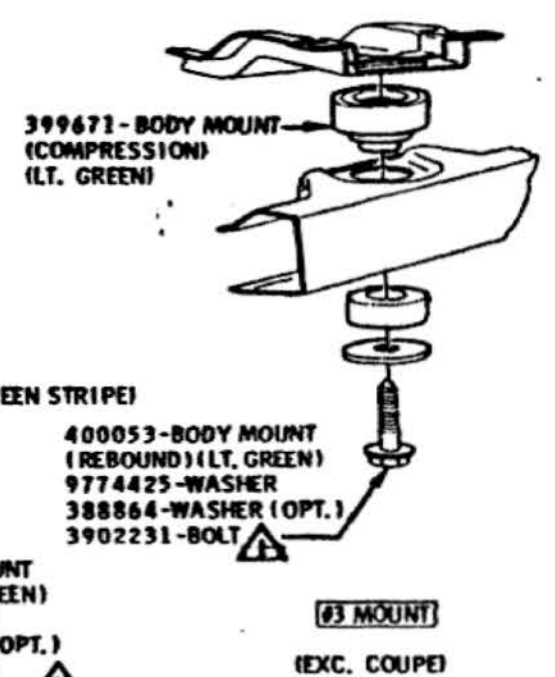
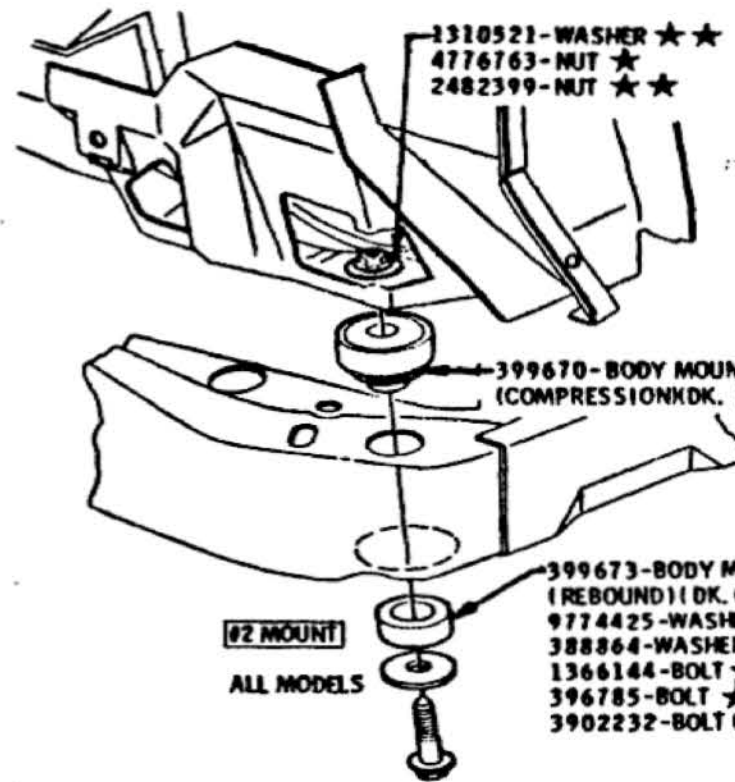
SECTION 2 BODY MOUNTING

110 BODY MOUNTING AND FRAME CHART

DATE 6-17-68

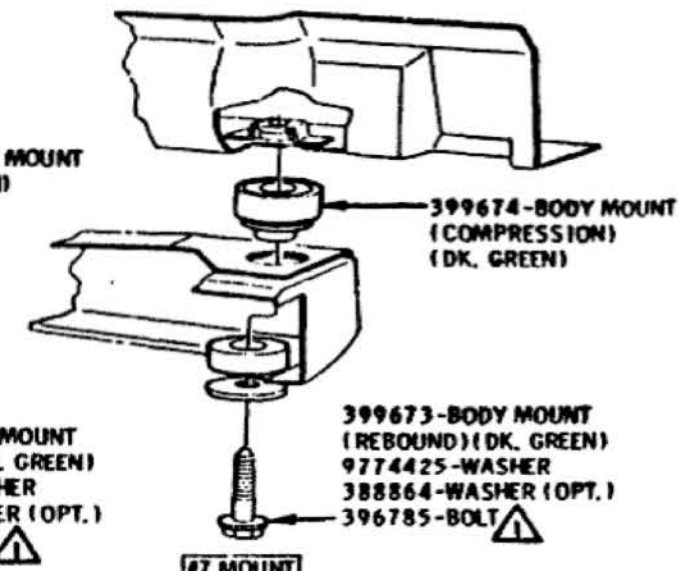
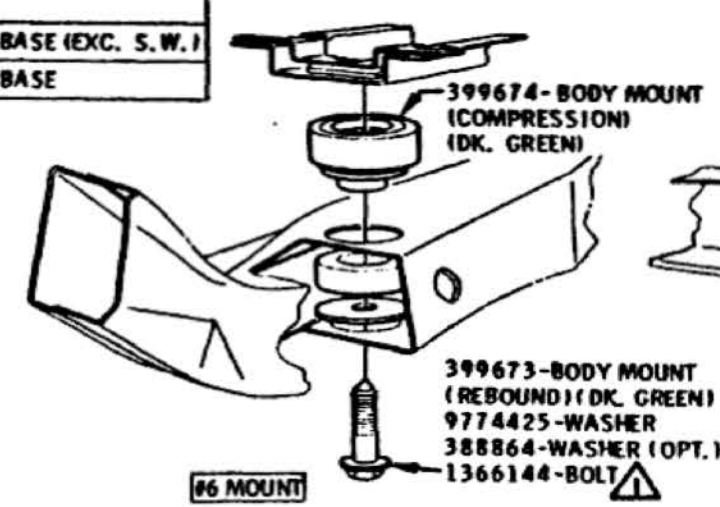
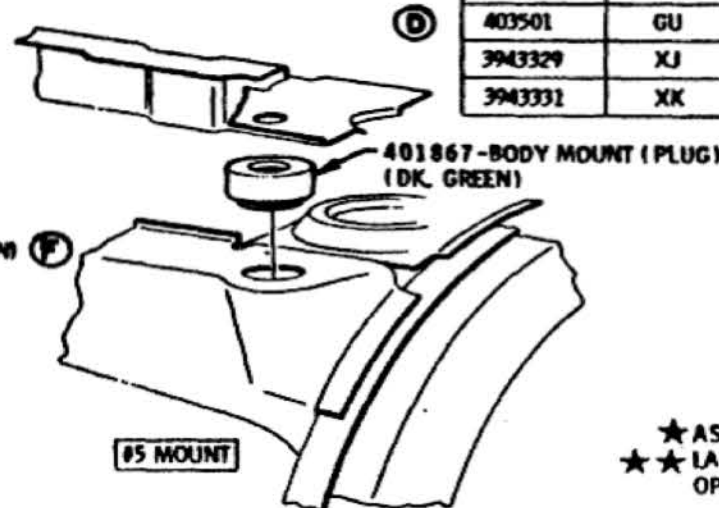
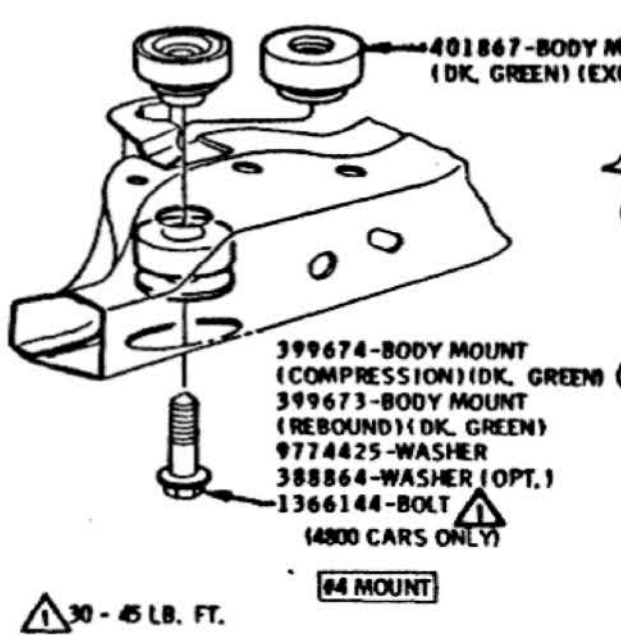
MANUAL NO. 401900

SERIES A



FRAME USAGE CHART

FRAME ASSY NO.	CODE	GROUP	USAGE
3943347	XL	2B	3567, 3667, 4467
3943349	XM	2B	3535, 3635
403501	GU	2B	4800
3943329	XJ	2B	116" WHEELBASE (EXC. S.W.)
3943331	XK	2B	112" WHEELBASE



★ ASSEMBLY PLANTS ONLY
★★ LANSING PLANT ONLY
OPT. FOR ASSY PLANTS

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
					9-5-68	E	FRAME CODES REV.	J13	PT												BODY MOUNTING & FRAME	1969		2	110
					8-16-68	D	WAS 398001	J13	PT												DR. BY 130YER				
					8-6-68	C	NO. 4 BODY MOUNT REVISED	J13	PT												CHECKED P.T. armhart				
					8-17-68	B	WAS 1366144 BOLT	J13	PT												APPR. P.T. armhart				
					3-4-68	A	CHART REVISED	J13	PT												APPR. S.M. 1/16/68				
					9-22-68	F	WAS LT. GREEN	J13	PT																
																						REV. 1B	28	A	401900



SECTION 3 FRONT SUSPENSION

- 100 CHARTS**
- 110 FRONT SUSPENSION COMPONENTS**

FRONT SUSPENSION SPRING USAGE - 1969 F-85

SERIES	MODEL	35FE2		F40 (EXPORT)		L31 (400 ENG.)		C60 (A/C)	3C (STANDARD)
		EXC. C60 (EXC. A/C)	C60 (A/C)	EXC. C60 (EXC. A/C)	C60 (A/C)	EXC. C60 (EXC. A/C)	C60 (A/C)	EXCEPT EXPORT OR 400 ENG.	
33100 (L6)	77	NA	NA	403590 R8	403591 S5	NA	NA	401186 LO	401244 LN
33200 (V8)	77	401420 RX	400334 R1	401420 RX	400333 RD	NA	NA	400881 LY	400872 LT
33900 (L6)	35	NA	NA	R.H. - 403590 R8	R.H. - 403591 S5	NA	NA	R.H. - 401187 LP	R.H. - 401244 LN
		NA	NA	L.H. - 403591 S5	L.H. - 401419 RY	NA	NA	L.H. - 400871 LS	L.H. - 400864 LE
	39	NA	NA	401418 RW	401419 RY	NA	NA	400871 LS	400864 LE
	67	NA	NA	401418 RW	401419 RY	NA	NA	401187 LP	401184 LD
	69	NA	NA	403590 R8	401419 RY	NA	NA	401187 LP	401184 LD
	77	NA	NA	403590 R8	403591 S5	NA	NA	401186 LO	401244 LN
33600 (V8)	35	NA	NA	R.H. - 401420 RX	R.H. - 400334 R1	NA	NA	R.H. - 400879 LU	R.H. - 401186 LO
		NA	NA	L.H. - 400333 RD	L.H. - 400335 RK	NA	NA	L.H. - 400883 SE	L.H. - 400874 LX
	39	NA	NA	403592 S6	400334 R1	NA	NA	400883 SE	400873 LV
	67	401420 RX	400334 R1	401420 RX	400334 R1	NA	NA	400882 SB	400873 LV
	69	NA	NA	401420 RX	400334 R1	NA	NA	400882 SB	400873 LV
	77	401420 RX	400334 R1	401420 RX	400333 RD	NA	NA	400882 SB	400872 LT
	87	401420 RX	400334 R1	401420 RX	400333 RD	NA	NA	400882 SB	400872 LT
34200 (V8)	39	NA	NA	403592 S6	400334 R1	NA	NA	400883 SE	400873 LV
	69	NA	NA	401420 RX	400334 R1	NA	NA	400882 SB	400873 LV
	87	NA	NA	401420 RX	400333 RD	NA	NA	400881 LY	400872 LT
34400 (V8)	67	NA	NA	NA	NA	401420 RX	400334 R1	400334 R1	401420 RX
	77	NA	NA	NA	NA	401420 RX	400334 R1	400334 R1	401420 RX
	87	NA	NA	NA	NA	401420 RX	400334 R1	400334 R1	401420 RX
34800 (V8)	55	NA	NA	R.H. - 400334 R1	R.H. - 400337 RO	R.H. - 401173 SD	R.H. - 400981 SN	R.H. - 400980 SF	R.H. - 400975 SC
		NA	NA	L.H. - 400336 RM	L.H. - 401421 RP	L.H. - 404856 R7	L.H. - 404857 S7	L.H. - 404856 R7	L.H. - 401174 SK
	65	NA	NA	R.H. - 400333 RD	R.H. - 400336 RM	R.H. - 401173 SD	R.H. - 400981 SN	R.H. - 400980 SF	R.H. - 400975 SC
		NA	NA	L.H. - 400335 RK	L.H. - 400337 RO	L.H. - 404856 R7	L.H. - 404857 S7	L.H. - 404856 R7	L.H. - 401174 SK

TO READ CHART:

READING CHART FROM LEFT TO RIGHT, THE FIRST OPTION REACHED THAT IS COMPLETELY SATISFIED WILL INDICATE THE SPRINGS 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 SPRINGS TO BE USED.

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.

(E) STANDARD USAGE FOR 35, 55 & 65 MODELS: USE SAME RANGE SPRINGS ON BOTH SIDES OF CAR.

TEMPORARY USAGE FOR 35, 55 & 65 MODELS: WHEN SAME RANGE SPRINGS FOR BOTH SIDES OF CAR ARE NOT AVAILABLE.

(PREFERRED) USE HIGH RANGE ON LEFT SIDE OF CAR AND LOW RANGE ON RIGHT SIDE OF CAR.

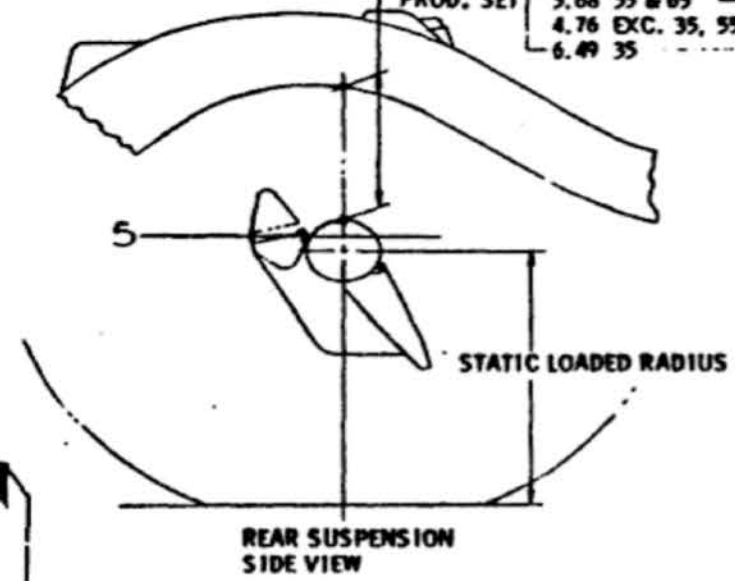
(OPTIONAL) USE LOW RANGE ON LEFT SIDE OF CAR AND HIGH RANGE ON RIGHT SIDE OF CAR.

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

FOR SPRING DETAIL SEE DRAWING 400860.

11269 D 34200 & 34400				TITLE				CHART - FRONT SPRING USAGE				
10316 C REVISED				DATE FEB. 27, 1968				FIRST USED				
32518 B F40 EXPORT REVISED				DR. BY DON MALKIN				1969				
3366A WAS 401120				CHECKED J. FITZGERALD				OLDSMOBILE PRODUCT INFORMATION MANUAL				
5-18-69 E NOTE REVISED				APPR. F. G. [Signature]				MANUAL SEC. PAGE				
								3 100				
								SERIES A PART NO. 403618				
DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	APPR.

DIM. D — 4.76 EXC. 35, 55 & 65
 PROD. SET 6.49 35
 5.68 55 & 65 — LANSING
 4.76 EXC. 35, 55 & 65
 6.49 35 — GMAD PLANTS



TOE-IN, CAMBER AND CASTER

CAR HEIGHT:
 PRODUCTION-SET CAR AT FRONT CARRYING HEIGHT USING DIMENSION (Z) AT D 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 EXCEPT 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) 1/8" TO 1/4" GREATER THAN DIMENSION (H).

GMAD PLANTS PROD. SETTING - DIMENSION (G) 1/8" TO 1/4" 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 ROD 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).

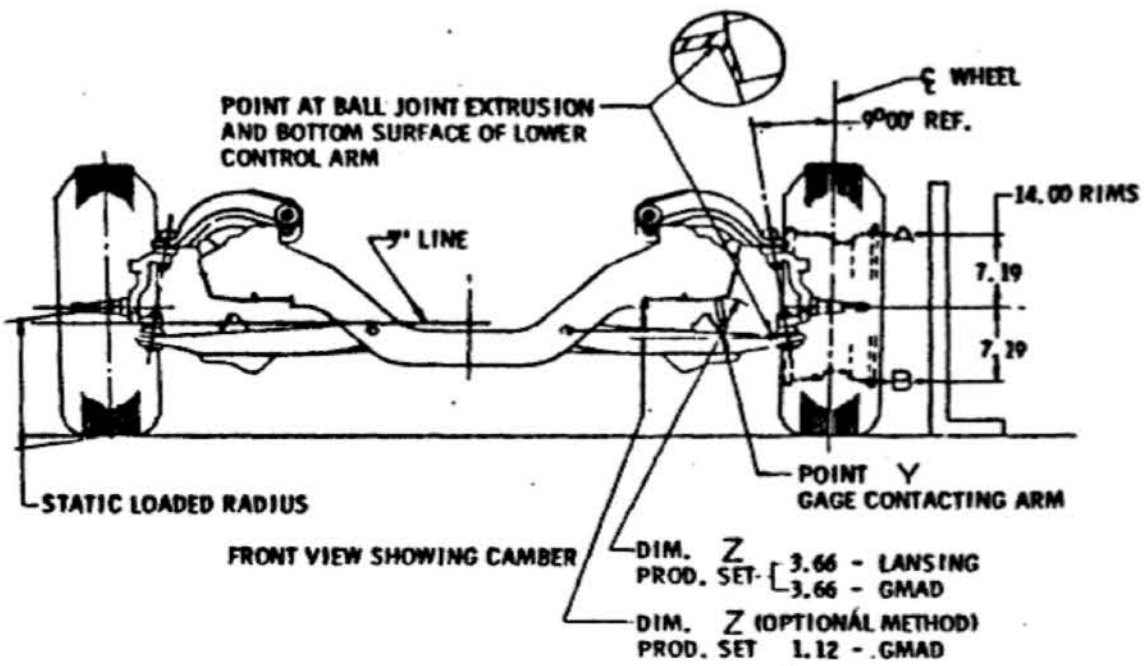
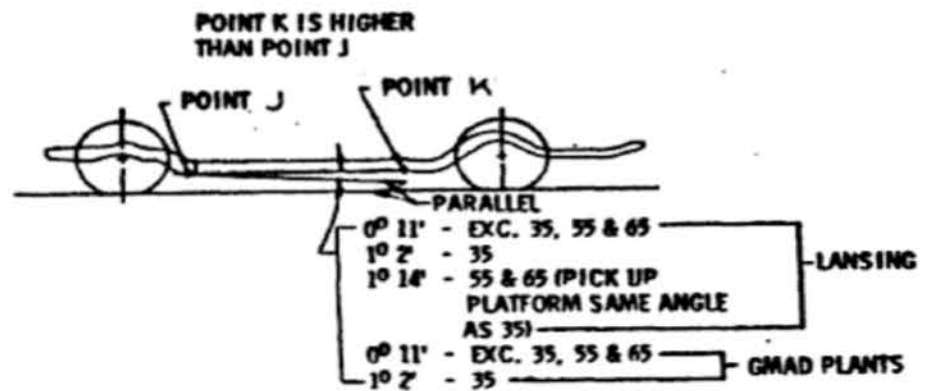
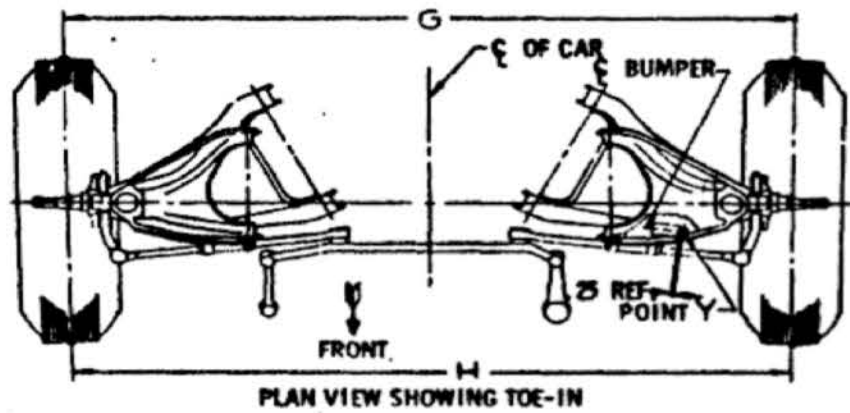
CAMBER:
 LANSING PROD. SETTING CAMBER ANGLE 1/8° POSITIVE ± 3/8°
 GMAD PLANTS PROD. SETTING CAMBER ANGLE 1/8° POSITIVE ± 1/2°

SERVICE LIMIT - CAMBER ANGLE 1/4° NEGATIVE 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 1/4° NEGATIVE ± 3/4°
 GMAD PLANTS PROD. SETTING CASTER ANGLE 1 1/4° NEGATIVE ± 3/4°

SERVICE LIMIT - CASTER ANGLE TO BE 1/2° NEGATIVE TO 2° NEGATIVE. 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.



TITLE		LAYOUT - FRONT WHEEL ALIGNMENT I	
DATE	JULY 30, 1968	FIRST USED	1969
DR BY	J. E. CASLER	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. PAGE
CHECKED	J. H. ITHAM	3	103
APPR.		SERIES	A
		PART NO.	404421

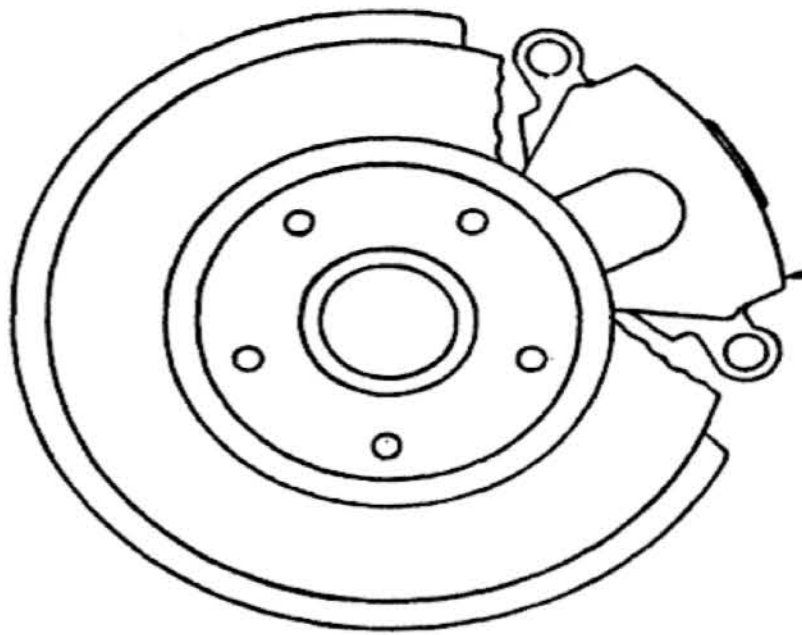
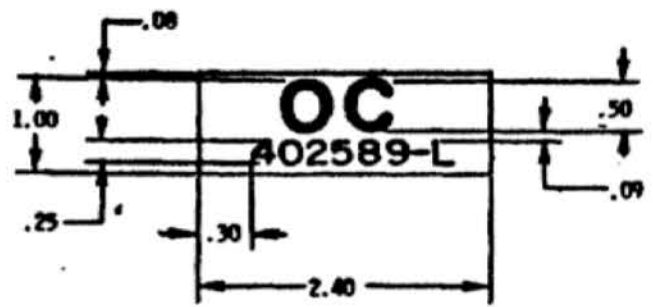
82968 A REVISED

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

GM STANDARD G-100-200

USAGE			
STEERING KNUCKLE ASSEMBLIES			
CODE	STEERING	MODEL	PART NO.
OE	POWER	54, 64, 66 84 & 86 WITH JL2	402596-R. 402597-L.
OH	MANUAL	54, 64, 66 WITH J55	404842-R. 404843-L.
OG	POWER	54, 64, 66 84, 86 WITH J55	404844-R. 404845-L.
OM		ALL F-85 WITH JL2 (EXCEPT W46)	402052-R. 402053-L.
OU		ALL F-85 WITH JL2 & W46	405980-R. 405981-L.

(C)
(B)
(F)
(G)
(B) (E) (J)
(D)
(H)



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

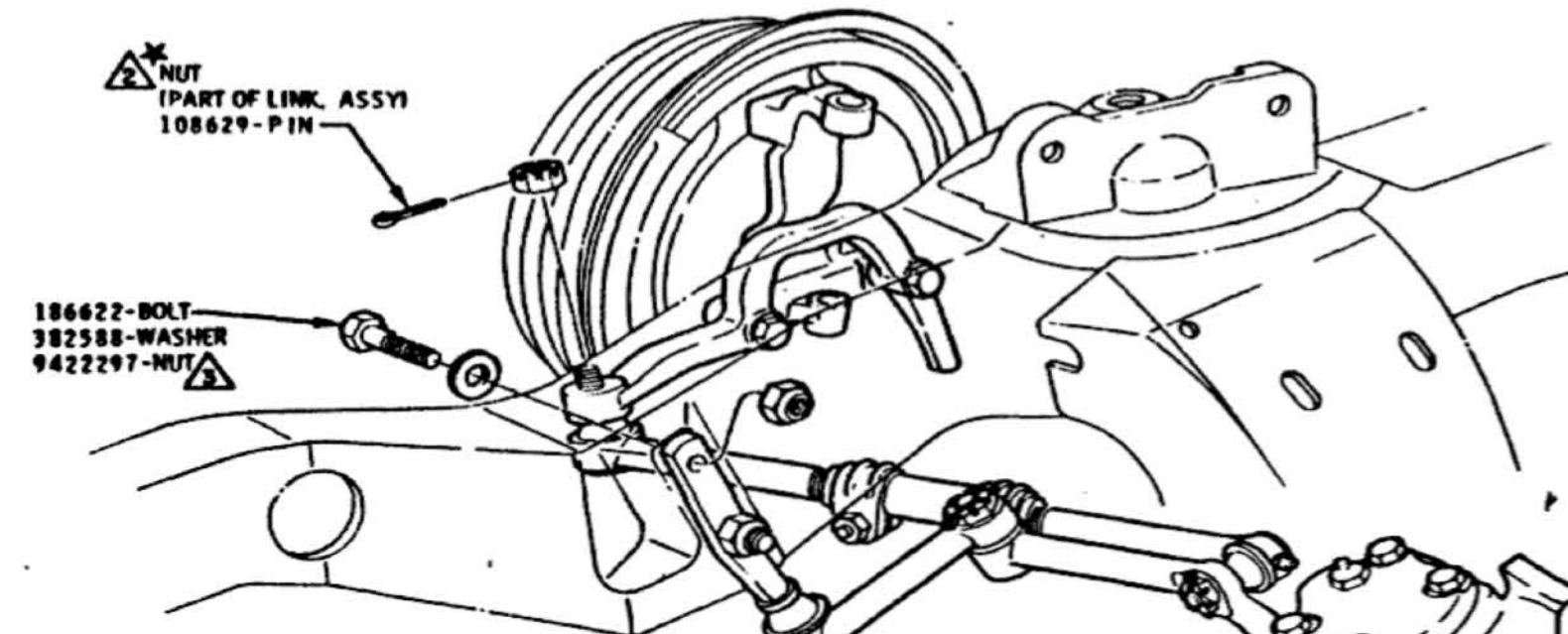
(A) JL2, J55 SHEET 2

REV.	DATE	BY	REVISION	TITLE	CHART - KNUCKLE SHOP ASSEMBLY CODE
12-29-68	F	KLJF	12668 A	WAS J52, J55	FIRST USED: 1969 OLDSMOBILE PRODUCT INFORMATION MANUAL: 3 106 SERIES: A-B-C PART NO.: 402918
10-29-68	F	KLJF	12668 A	WAS J52, J55	
12-29-68	F	KLJF	12668 B2	MODEL USAGE REVISED	
2-19-69	H	KLJF	12668 C	402589-9 REMOVED	
2-19-69	H	KLJF	12668 D	402052-5 REMOVED	

DATE DEC. 9, 1967	FIRST USED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL 3 106
DR. BY B. SCHMIDT	CHECKED J. P. [Signature]	SERIES A-B-C
APPR. J. P. [Signature]	REF.	PART NO. 402918

- 1 15 - 25 LB. FT.
- 2 30 - 40 LB. FT. *
- 3 35 - 45 LB. FT.
- 4 120 - 160 LB. FT.

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



186622-BOLT
382588-WASHER
9422297-NUT

NUT
(PART OF LINK. ASSY)
108629-PIN

7801831-MANUAL STEERING LINKAGE ASM -EXC. G.M. OF CANADA
7801832-POWER STEERING LINKAGE ASM -G.M. OF CANADA
3406420-MANUAL STEERING LINKAGE ASM
3406419-POWER STEERING LINKAGE ASM

INTERMEDIATE ARM

TIGHTEN STEERING GEAR AND IDLER ARM SUPPORT TO FRAME BOLTS AFTER SETTING INTERMEDIATE ROD TO FRAME DIMENSION ("A") TO THE MINIMUM POSSIBLE ON EACH CHASSIS ASSEMBLY.

CLEARANCE-INTERMEDIATE ARM TO FRAME CROSS MEMBER

FRONT OF CAR

FRONT OF CAR

FRONT OF CAR

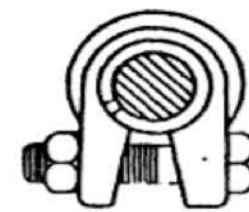


FIGURE 1



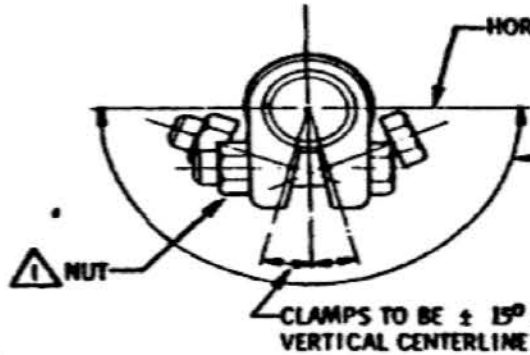
FIGURE 2



FIGURE 3

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

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



TYPICAL SECTION A-A

HORIZONTAL CENTERLINE

CLAMP BOLTS MUST BE KEPT WITHIN THESE LIMITS TO INSURE CLEARANCE TO FRAME, STABILIZER SHAFT AND LOWER CONTROL ARM.

CLAMPS TO BE ± 15° FROM VERTICAL CENTERLINE

NUT

NUMBER OF THREADS PROJECTING FROM EACH END OF TIE ROD SLEEVE MUST BE EQUAL WHEN TIE ROD IS ASSEMBLED TO PLANE ARM.

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

NUT
(PART OF LINK ASSY)
108629-PIN

L. WASHER
NUT
(PART OF STEERING GEAR ASSY)

TITLE										STEERING LINKAGE					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
												NOVEMBER 9, 1967	1969	3	110
												REF. 90	SERIES	PART NO.	
												35N40	A	401900	
												46-9			



SECTION 4 REAR SUSPENSION

- 100 CHARTS
- 110 PROPELLER SHAFT
- 111 REAR SUSPENSION COMPONENTS
- 115 SUPERLIFT SHOCK ABSORBERS

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

SERIES	ENGINE	TRANSMISSION	AXLE RATIOS						PERFORMANCE			DEALER INSTALLED							
			2.56 (1966)	2.78 (1965)	3.08 (1960)	3.23 (1961)	3.42 (1962)	3.91 (1968)	4.33 (1969)	4.33 (190-4)	4.66 (190-4)	5.00 (190-6)							
33100 F-65 33500 CUTLASS	250 LB. 1 BBL. (S) LOW AND 190 EXPORT	SM		S	A	A	A												
		M31		S	A	A	A												
		SM, M31 WITH C60			S	A	A												
		SM, M14		A	S	A	A	A	A										
		M20			S	A	A	A											
		M21						S	A										
		M31, M40 @		S	A	A	A	A	A										
		M31 WITH C60V72		A	S	A	A	A											
		SM, M14			A	S	A	A	A	A									
		M20					S	A	A										
33200 F-65	350 2 BBL. LOW (S) AND 190 EXPORT	M21					S	A											
		M31 WITH C60V72		A	S	A	A	A											
		SM, M14			A	S	A	A	A										
		M20					S	A											
		M21						S	A										
		M31 WITH C60V72		A	S	A	A	A											
		SM, M14			A	S	A	A	A										
		M20					S	A											
		M21						S	A										
		M31 WITH C60V72		A	S	A	A	A											
33600 CUTLASS	350 2 BBL. LOW (S) AND 190 EXPORT	M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
34200 CUTLASS SUPREME	350 4 BBL. HIGH (S) AND 350 2 BBL. LOW (L65) AND 190 EXPORT	M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
		M31 WITH C60V72		A	S	A	A	A											
34400 4-4-2	400 4 BBL. HIGH (S)	M20					S	A											
		M20					S	A											
		M20					S	A											
		M20					S	A											
		M20					S	A											
		M20					S	A											
		M20					S	A											
		M20					S	A											
		M20					S	A											
		M20					S	A											
34600 VISTA- CRUISER	400 4 BBL. HIGH (L31)	M40					S	A											
		M40					S	A											
		M40					S	A											
		M40					S	A											
		M40					S	A											
		M40					S	A											
		M40					S	A											
		M40					S	A											
		M40					S	A											
		M40					S	A											

S - STANDARD
A - AVAILABLE
@ - DENOTES LIMITED PRODUCTION
RUN FOR M40 USAGE

SM - FULLY SYNCHRONIZED 3-SPEED MANUAL TRANSMISSION
M14 - FULLY SYNCHRONIZED 3-SPEED MANUAL TRANSMISSION (FLOOR SHIFT)
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 JETWAY TRANSMISSION
M38 - 3-SPEED TURBO - HYDRA-MATIC "397" TRANSMISSION
M40 - 3-SPEED TURBO-HYDRA-MATIC "400" TRANSMISSION

C60 - AIR CONDITIONING
V72 - HEAVY DUTY COOLING

3.42 (1972), 3.91 (1988) OR 4.33 (1989) NOT AVAILABLE WITH C60V72

(P)

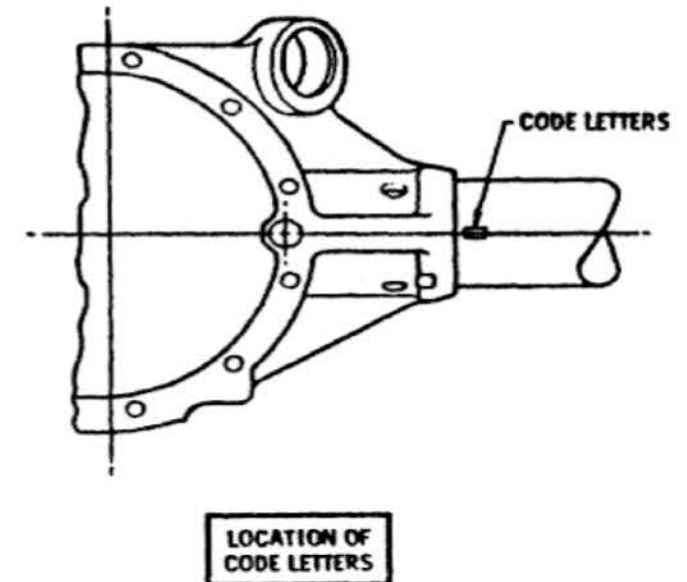
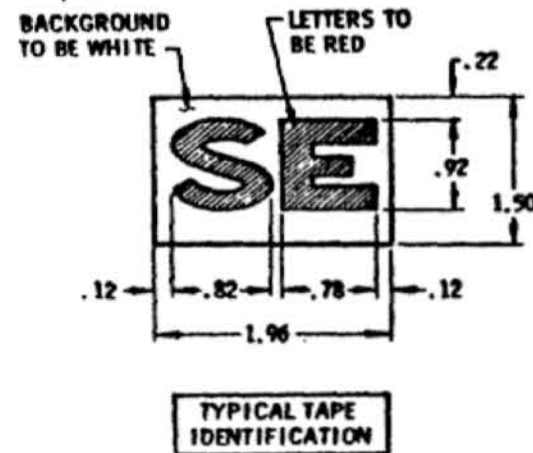
TITLE: CHART - REAR AXLE USAGE
DATE: FEB. 12, 1968
DR. BY: BILL SCHMIOT
CHECKED: J. R. Leonard
APPR. J. R. Leonard

FIRST USED: 1969
OLDSMOBILE PRODUCT INFORMATION MANUAL
MANUAL SEC. PAGE: 4 104
SERIES: A
PART NO.: 402728

SHEET 1 OF 5

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

SERIES	L.O. AXLE ASM. 402729	CODE	RATIO	AXLE SUB-ASM. CHART 402762	DIFFERENTIAL CARRIER ASM.		AXLE SHAFT ASSEMBLY	BRAKE ASSEMBLY	BRAKE DRUM ASSEMBLY
					CHART 402641	GEAR TEETH			
STANDARD TYPE DIFFERENTIAL (EXC. 4800 SERIES)									
31, 35, 32, 36, 42, 4400 EXC. JL2	402730	R2	2.56	402763	402642	41-16	393906	5463508-R. H. 5463507-L. H.	M. W. 398456-R. H. 398457-L. H. OR K. H. 9788681
	402731	SA	2.78	402764	402643	39-14			
	402732	SC	3.08	402765	402644	40-13			
	402733	SE	3.23	402766	402645	42-13			
STANDARD TYPE DIFFERENTIAL (EXC. 4800 SERIES)									
31, 35, 32, 36, 42, 4400 WITH JL2	402736	R6	2.56	402763	402642	41-16	393906	5470598-R. H. 5470597-L. H.	M. W. 398456-R. H. 398457-L. H. OR K. H. 9788681
	402737	S2	2.78	402764	402643	39-14			
	402738	S4	3.08	402765	402644	40-13			
	402739	S6	3.23	402766	402645	42-13			
STANDARD TYPE DIFFERENTIAL									
4800	402742	TA	2.78	402769	402643	39-14	403305	5463511-L. H. 5463512-R. H.	1368329
	402743	SM	3.08	402770	402644	40-13			
	402744	SO	3.23	402771	402645	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.	QUANTITY	DESCRIPTION
SEE CHART	1	AXLE SUB ASSEMBLY - REAR (SELECT RATIO FROM CHART)
396379	1	BRAKE ASSEMBLY - REAR - L. & R.
414999	2	GASKET - WHEEL BEARING (EXCEPT 4800)
2474997	8	BOLT - BRAKE TO AXLE
SEE CHART	8	NUT - BRAKE TO AXLE
SEE CHART	2	SHAFT ASSEMBLY - REAR AXLE
358501	2	DRUM ASSEMBLY - REAR BRAKE
1382429	4	NUT (ASSEMBLY PLANTS) - DRUM TO AXLE
1384690	2	CABLE ASSEMBLY - REAR PARKING BRAKE
404283	*	CABLE ASSEMBLY - REAR PARKING BRAKE (OPTION)
9416029	*	CABLE ASSEMBLY - REAR PARKING BRAKE (OPTION)
3820840	4	NUT (SPRING) (LANSING) - DRUM TO AXLE
	1	VENT ASSEMBLY - REAR AXLE

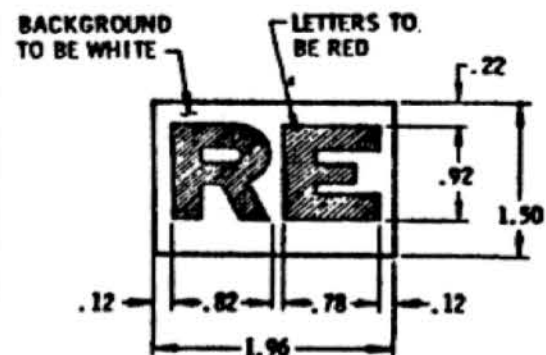
THIS REPRESENTS AXLE AS USED AT LANSING PLANT AND AS SHIPPED TO G.M.A.D. PLANTS. FOR ASSEMBLY INFORMATION, SEE 402729. MANUFACTURER'S IDENTIFICATION MUST APPEAR ON THIS PART. LOCATION TO BE APPROVED BY THE ENGINEERING DEPARTMENT. OMISSION REQUIRES APPROVAL OF PURCHASING DIVISION.

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

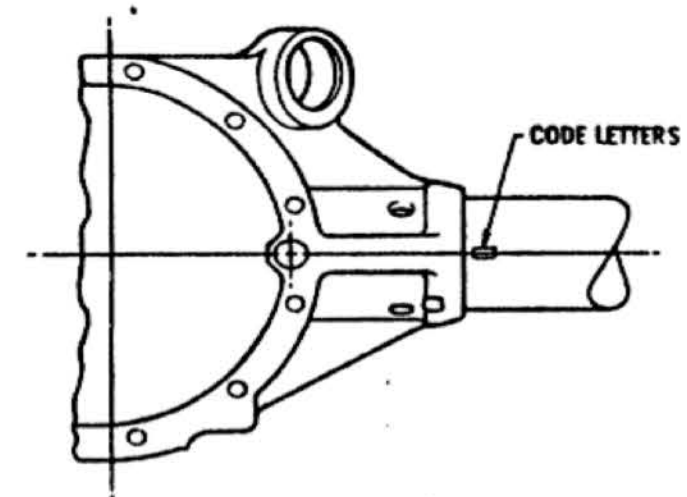
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	CHART - REAR AXLE USAGE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
																DATE FEB 7 1968	1969		4	105	A	402728	
																OR BY J.E. CASLER							
																CHECKED J. FITZES							
																APPR. T.E. LEONARD							

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

EQUIPMENT	L.O. AXLE ASM 1833708	CODE	RATIO	DIFFERENTIAL CARRIER ASM.		AXLE SHAFT ASM	BRAKE ASM	BRAKE DRUM ASM	
				CHART 1825069	GEAR TEETH				
STANDARD DIFFERENTIAL									
	403474	RB	2.56		1825076	41-16	1384242	1231299-L. H. 1231298-R. H.	1386562
	403475	RA	2.73		1825072	41-15			
	403476	RC	3.07		1825070	43-14			
	403477	RE	3.31		1825074	43-13			
LIMITED SLIP DIFFERENTIAL									
	403480	R9	2.56		1825077	41-16	1384242	1231299-L. H. 1231298-R. H.	1386562
	403481	RB	2.73		1825073	41-15			
	403482	RD	3.07		1825071	43-14			
	403483	RF	3.31		1825075	43-13			
	404497	TL	3.55		1825079	39-11			
	404498	TN	3.73		1833834	41-11			



TYPICAL TAPE IDENTIFICATION



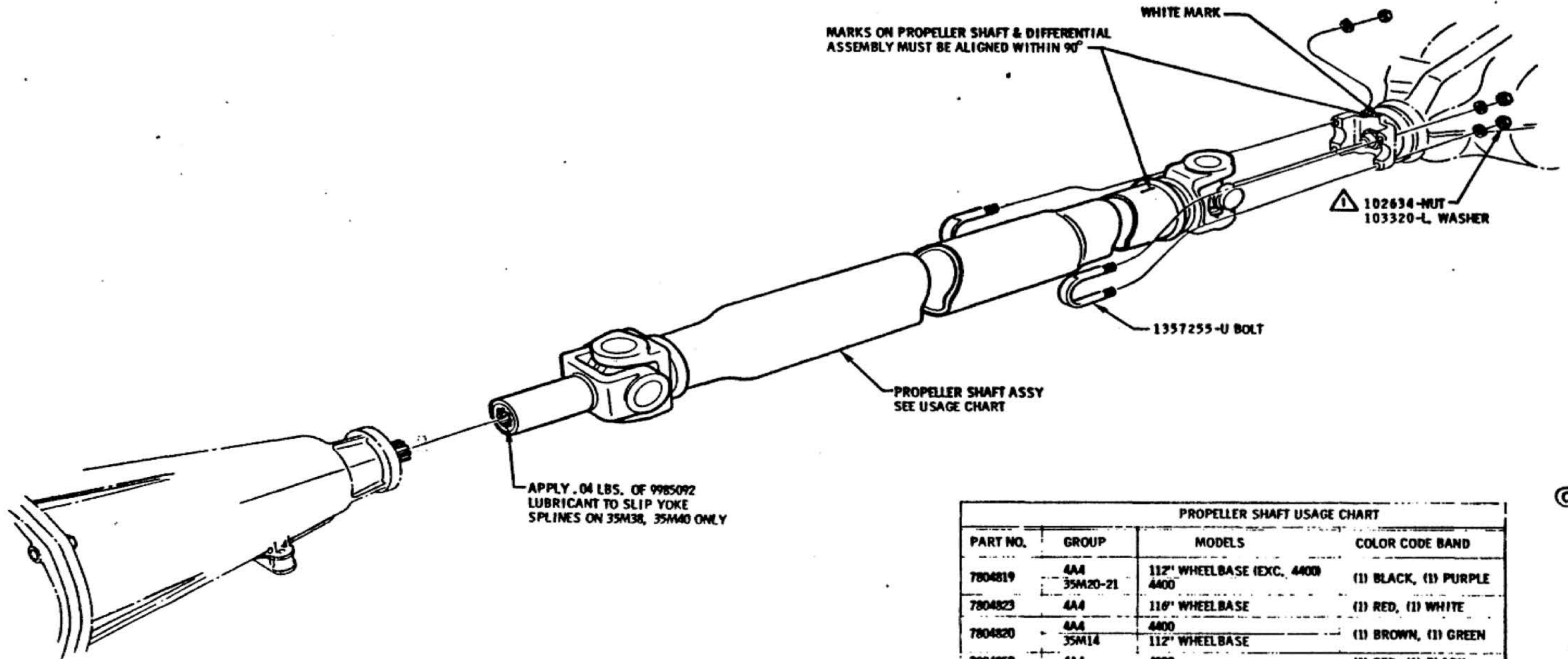
LOCATION OF CODE LETTERS

THE FOLLOWING COMPONENT PARTS ARE REQUIRED FOR USE WITH DIFFERENTIAL CARRIER ASSEMBLY OF SELECTED RATIO FROM THE ABOVE CHARTS TO COMPLETE AXLE ASSEMBLY FOR USE ON PRODUCTION LINE.

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

THIS REPRESENTS AXLE AS USED BY G.M. OF CANADA (OSHAWA). FOR ASSEMBLY INFORMATION, SEE 1833708. MANUFACTURER'S IDENTIFICATION MUST APPEAR ON THIS PART. LOCATION TO BE APPROVED BY ENGINEERING DEPARTMENT. OMISSION REQUIRES APPROVAL OF PURCHASING DIVISION.

										TITLE CHART - REAR AXLE USAGE (G.M. OF CANADA - OSHAWA)		SHEET 5								
										DATE JULY 16, 1969		FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 4		PAGE 108		
										DR. BY BOB HOLT		SERIES A		PART NO. 402728						
										CHECKED C. J. HINES										
										APPR. [Signature]										
DATE	SYM	REVISION	DR	CK.	DATE	SYM	REVISION	DR	CK.	DATE	SYM	REVISION	DR	CK.	DATE	SYM	REVISION	DR	CK.	APPR.



PROPELLER SHAFT USAGE CHART

PART NO.	GROUP	MODELS	COLOR CODE BAND
7804819	4A4 35M20-21	112" WHEELBASE (EXC. 4400) 4400	(1) BLACK, (1) PURPLE
7804823	4A4	116" WHEELBASE	(1) RED, (1) WHITE
7804820	4A4 35M14	4800 112" WHEELBASE	(1) BROWN, (1) GREEN
7804850	4A4	4800	(1) RED, (1) BLACK
7804824	35M14	116" WHEELBASE	(1) RED, (1) YELLOW
7804896	35M31	112" WHEELBASE	(1) GREEN, (1) PINK
7804895		116" WHEELBASE	(1) RED, (1) BLUE
7806237	35M38	112" WHEELBASE	(1) BLACK, (1) PINK
7806236		116" WHEELBASE	(1) BLACK, (1) BROWN
7801163	35M40	116" WHEELBASE	(1) BROWN, (2) GREEN
7803983	35M40	4800	(1) WHITE, (1) BLUE
7807106	35M40	112" WHEELBASE	(1) BROWN, (1) BLUE

⚠ 12 - 16 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
					1-17-69	E	WAS 7804858													PROPELLER SHAFT	1969	4	110	
					8-16-68	D	PART NO. REMOVED													DATE FEBRUARY 13, 1968	RET. 444			
					6-26-68	C	LETTER CODES REMOVED													DR. BY P. J. MCKESSY				
					6-6-68	B	7804856 - SHAFT REMOVED													CHECKED <i>[Signature]</i>				
					5-14-68	A	PART NO ADDED													APPR. <i>[Signature]</i>		A	401900	

9798214-UPPER ARM ASSY-R.H. & L.H. - "NR"
(31, 32, 35, 36, 4200)
9798211-UPPER ARM ASSY-R.H. & L.H. - "NJ"
(4400)

402568-BOLT
9422301-L NUT
(INSTALLATION DIRECTION OPT.)

9427318-BOLT (INST. DIRECTION OPT. 4
EXC. ON 4800 SERIES)
9421430-BOLT (ASSEMBLY PLANT OPT. OTHER THAN LANSING)
9422301-L NUT

102634-NUT
9423701-SCREW

1366500-INSULATOR

FOR SPRING USAGE, SEE PAGE 100

LOWER ARM ASSY MUST BE INSTALLED WITH SLOT TOWARD FRONT OF CAR ON 4400 MODELS ONLY

SEE SHOCK ABSORBER USAGE CHART IN SECTION "O"

FOR AXLE BUMPER AND SPACER INSTALLATION, SEE PAGE 112

9791811-LOWER ARM ASSY-"NY"
(31, 32, 35, 36, 4200)
9790780-LOWER ARM ASSY-"NW"
(4800)
9791102-LOWER ARM ASSY-"NZ"
(4400 & 35FE2)

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.

9427318-BOLT
9422301-L NUT
(INSTALLATION DIRECTION OPT.)

9421430-BOLT
9422301-L NUT
(INST. DIRECTION MANDATORY AS SHOWN)

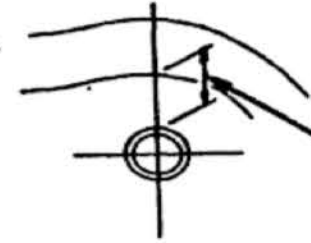
9421085-NUT
103329-WASHER
BACK-UP WRENCH REQUIRED ON LOWER SHOCK ABSORBER STUD WHEN INSTALLING NUT

FOR REAR AXLE ASSY USAGE, SEE FRONT OF SECTION 4

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

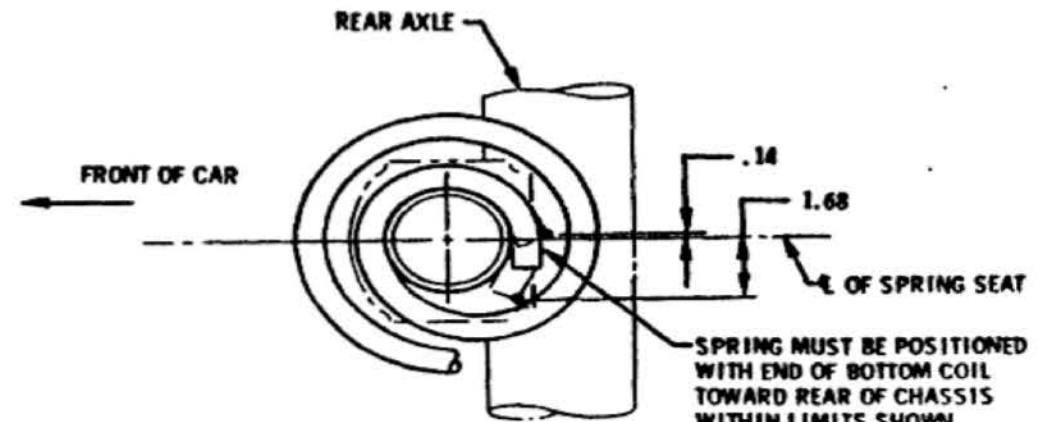
- 1 15 - 25 LB. FT.
- 2 55 - 75 LB. FT.
- 3 70 - 90 LB. FT.
- 4 90 - 120 LB. FT.

TORQUE NUTS OR HEAD OF BOLTS AT ASSEMBLY. ANY RETORQUE SUBSEQUENT TO THE INITIAL APPLICATION MUST BE APPLIED TO THE SAME END AS TORQUED INITIALLY.



PRODUCTION SETTING

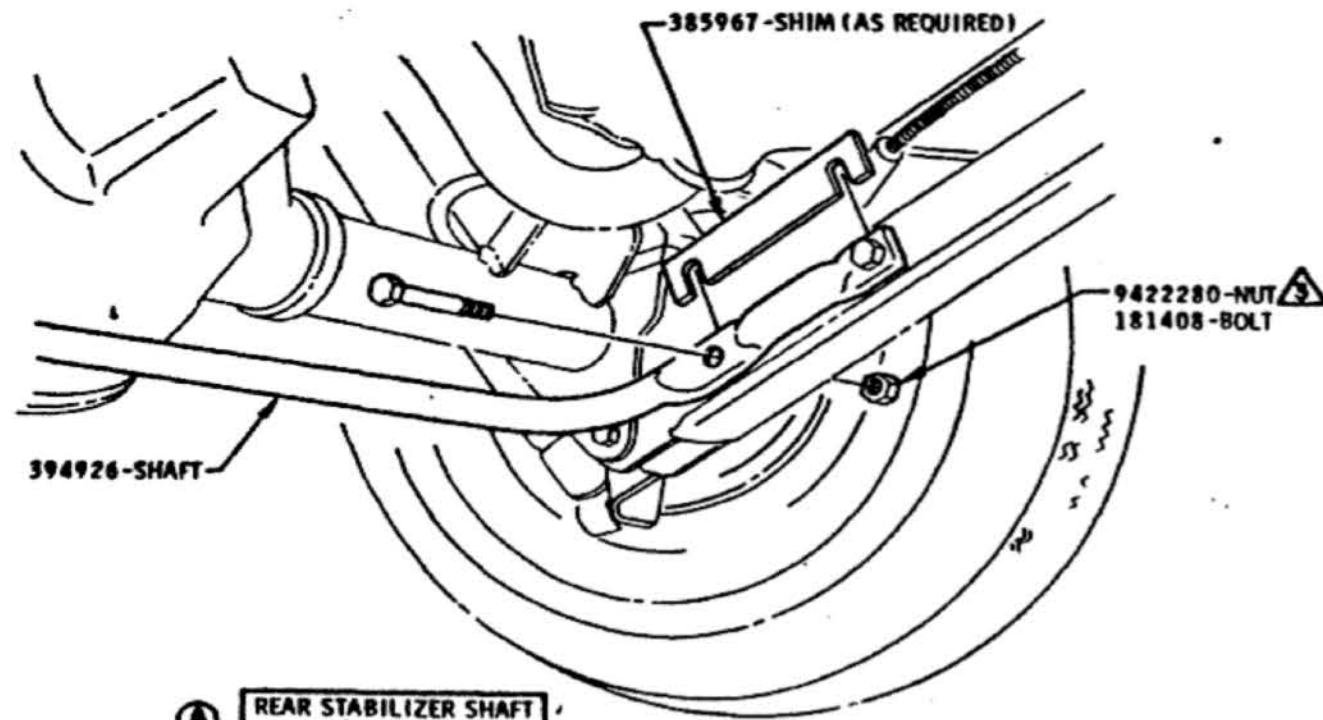
TIGHTEN UPPER AND LOWER CONTROL ARM BUSHING BOLTS WITH SPRING COMPRESSED SO TOP OF AXLE TO FRAME IS:
4.68 ± .25 EXC. S.W. 5.67 ± .25 S.W., AND 4.61 ± .25 EXT. WAGON.



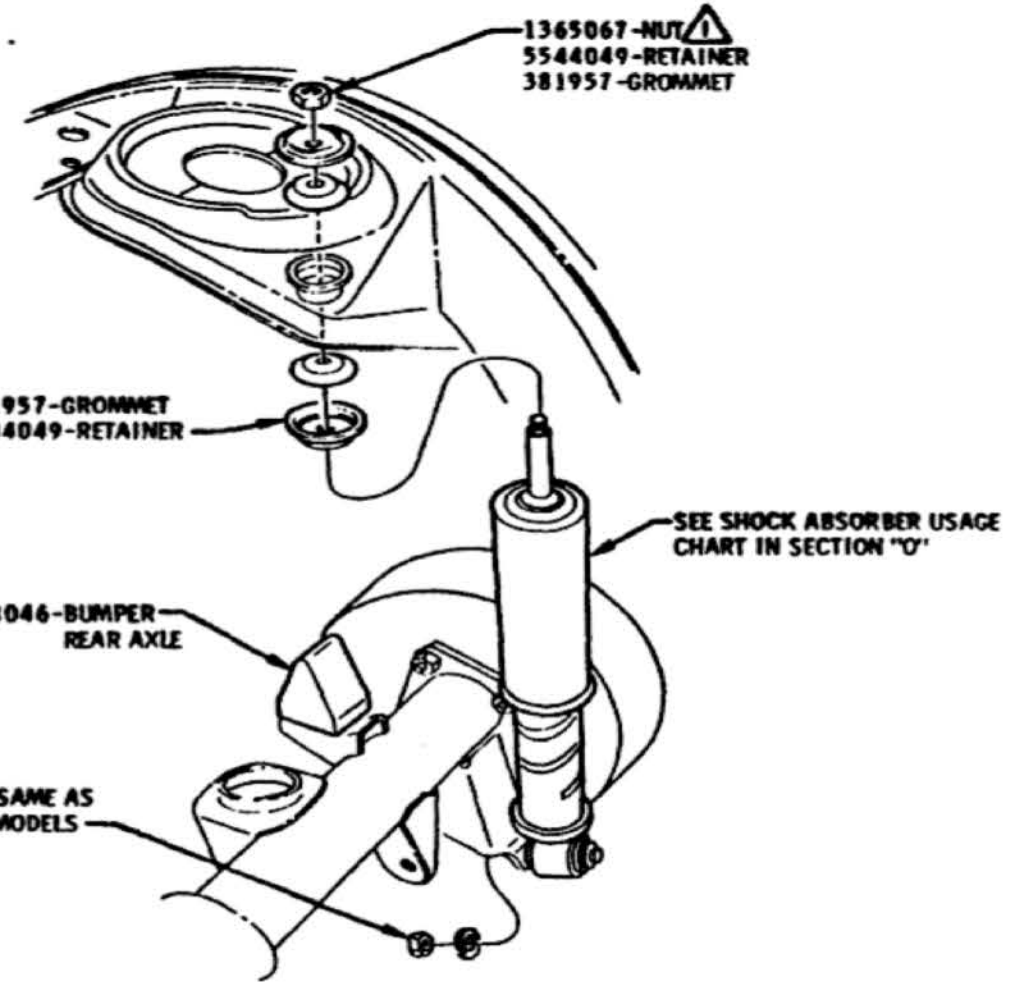
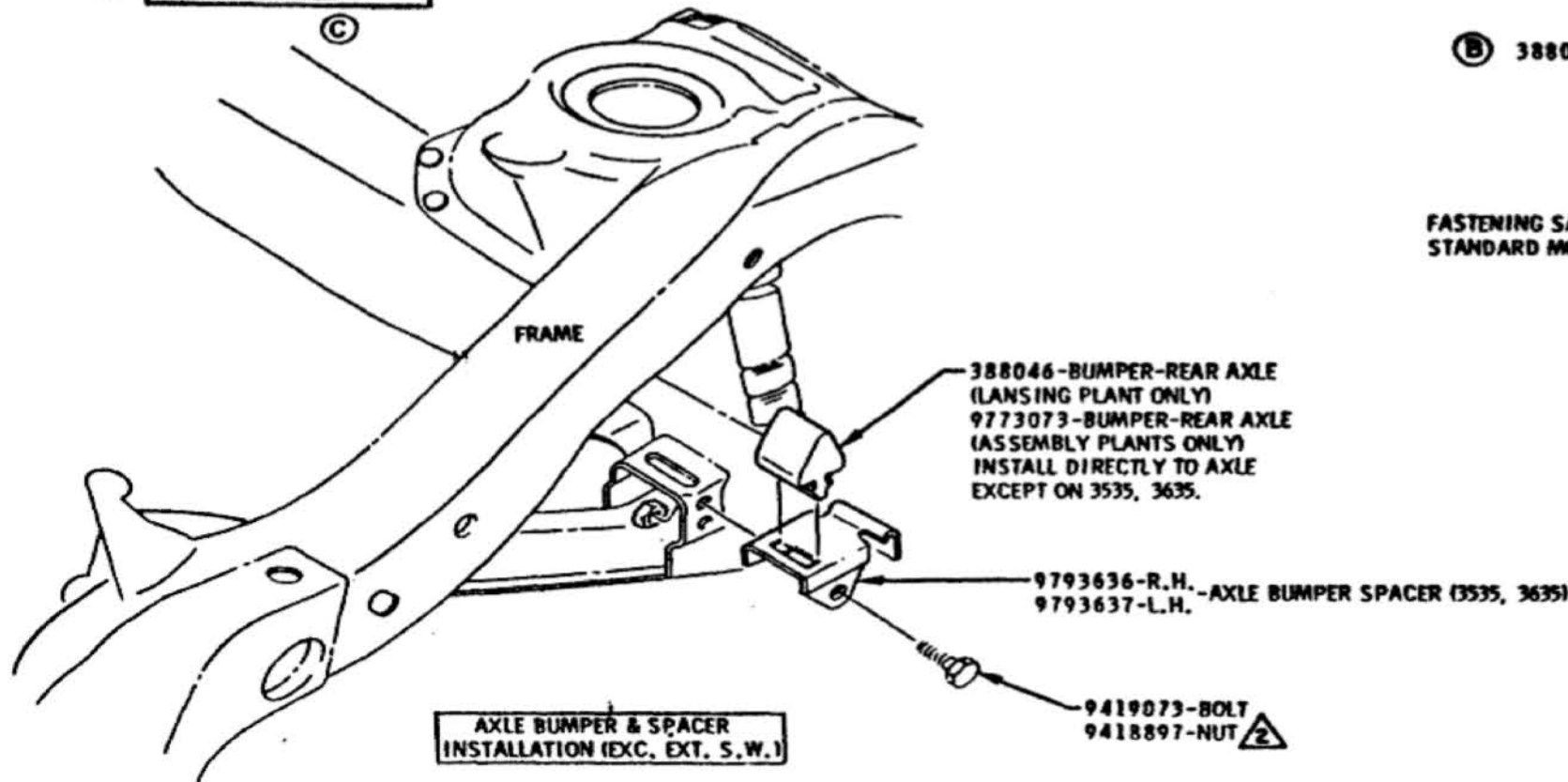
SPRING MUST BE POSITIONED WITH END OF BOTTOM COIL TOWARD REAR OF CHASSIS WITHIN LIMITS SHOWN

VIEW A BOTH SIDES

REVISION	DR.	CHK.	DATE	SYM.	REVISION	DR.	CHK.	DATE	SYM.	REVISION	DR.	CHK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
			11-12-68	E	35FE2 ADDED									REAR SUSPENSION	1969	4	4	111
			9-5-68	D	NOTE REVISED									DATE FEBRUARY 12, 1968				
			8-8-68	C	NOTES ADDED									DR. BY P.J. McESSY				
			4-17-68	B	PART NO'S REVISED									CHECKED BY S. J. ...				
			2-29-68	A	55-75 WAS 30-60 LB. FT.									APPR. 3 0 ...	REF. 40 1C	SERIES A	PART NO. 401900	



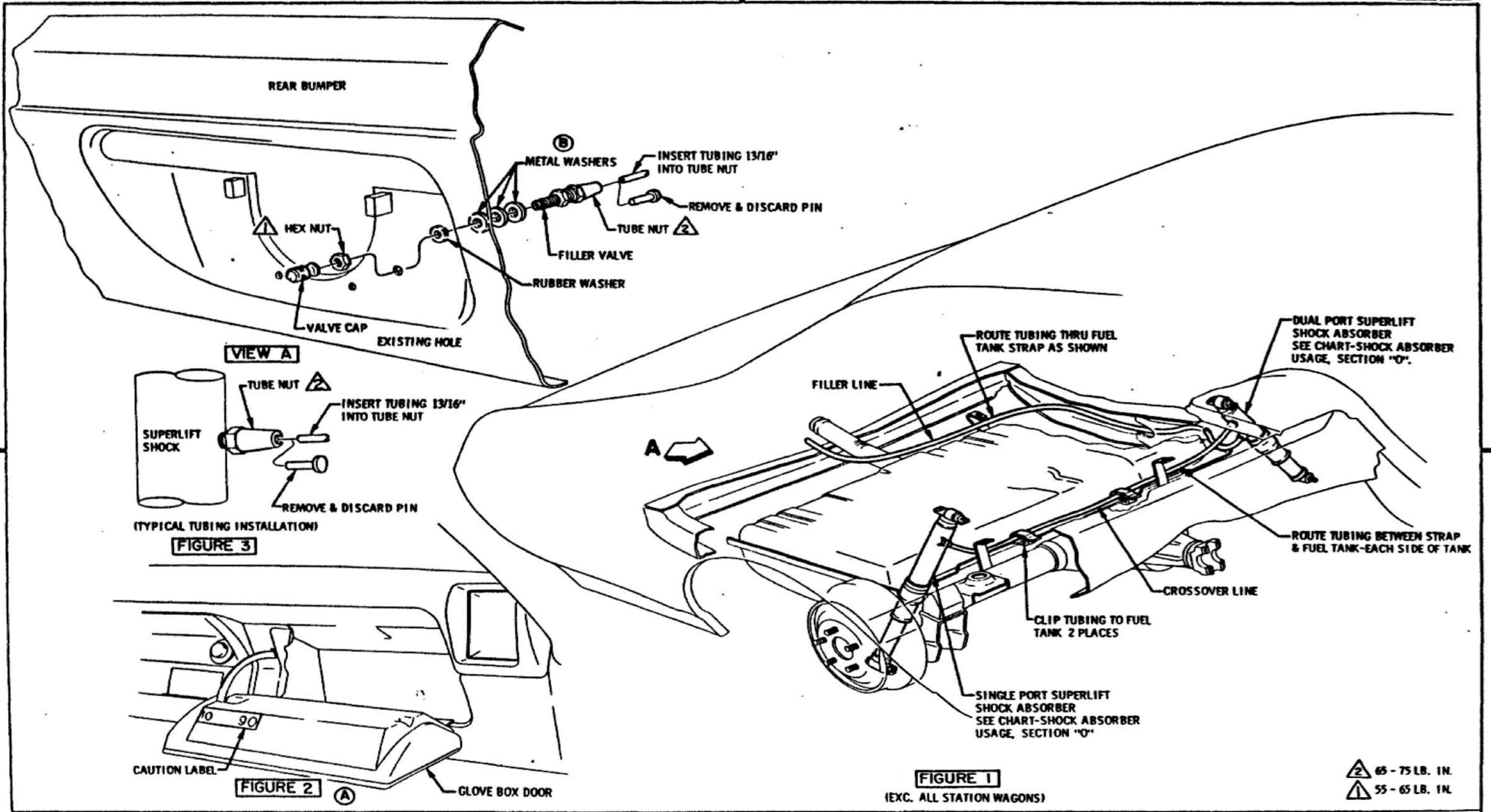
A REAR STABILIZER SHAFT
(4800 & 35FE2)



**SHOCK ABSORBER AND BUMPER INSTALLATION
EXTENDED STATION WAGONS**

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

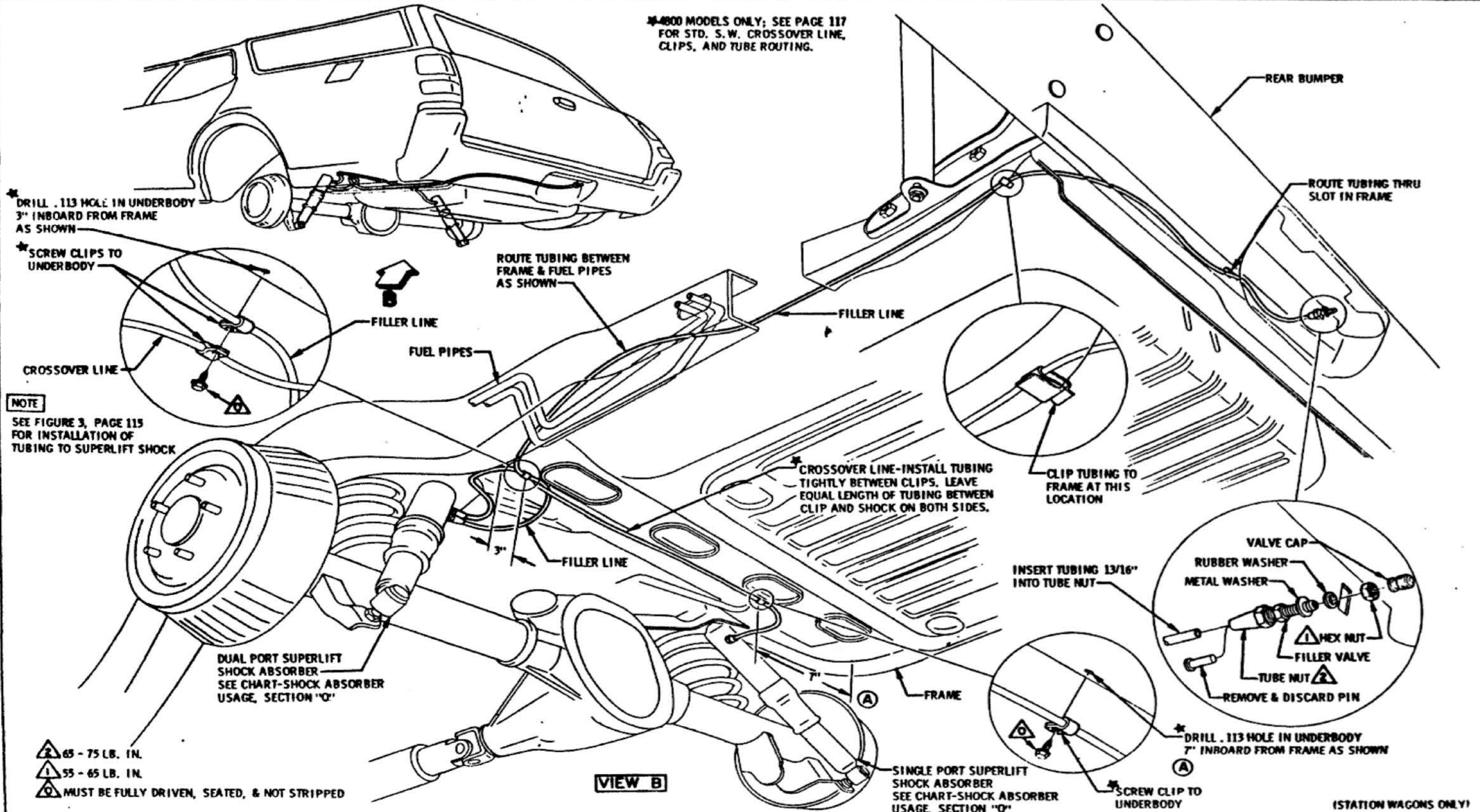
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
															STABILIZER SHAFT, AXLE BUMPER & EXT. WAGON	1969		4	112
					11-12-68	C	35FE2 ADDED								DATE FEBRUARY 8, 1968				
					7-31-68	B	WAS 381351-BUMPER								DR. BY P.J. MURPHY				
					2-15-68	A	REAR STAB. SHAFT ADD.								CHECKED BY J. B. HART				
															APPR. J. B. HART	REF. 41 OF 48	SERIES	PART NO.	
															APPR. J. B. HART 2/12/68	40 97.8	A	401900	



② 65 - 75 LB. IN.
① 55 - 65 LB. IN.

										TITLE		SUPERLIFT SHOCK ABSORBER						
										DATE	DECEMBER 14, 1967	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	4	PAGE	115
										DR. BY	W.E. MASON	REF.	35666	SERIES	A	PART NO.	401900	
										12-5-68	B	WASHERS ADDED						
										5-2-68	A	REVISED TO DETAIL						
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	

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



*DRILL .113 HOLE IN UNDERBODY
3" INBOARD FROM FRAME
AS SHOWN

*SCREW CLIPS TO
UNDERBODY

NOTE
SEE FIGURE 3, PAGE 115
FOR INSTALLATION OF
TUBING TO SUPERLIFT SHOCK

DUAL PORT SUPERLIFT
SHOCK ABSORBER
SEE CHART-SHOCK ABSORBER
USAGE, SECTION "O"

*CROSSOVER LINE-INSTALL TUBING
TIGHTLY BETWEEN CLIPS. LEAVE
EQUAL LENGTH OF TUBING BETWEEN
CLIP AND SHOCK ON BOTH SIDES.

SINGLE PORT SUPERLIFT
SHOCK ABSORBER
SEE CHART-SHOCK ABSORBER
USAGE, SECTION "O"

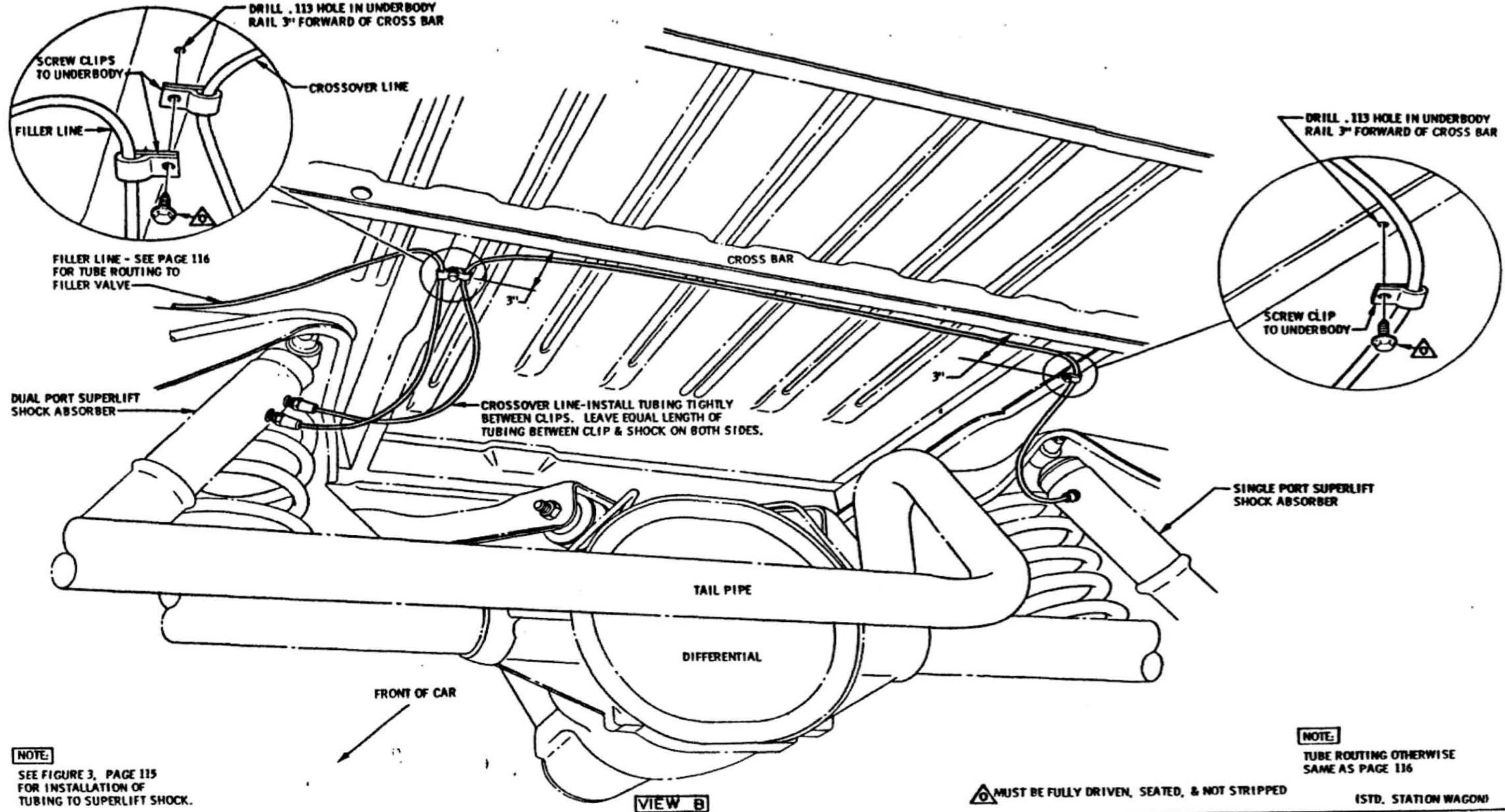
*DRILL .113 HOLE IN UNDERBODY
7" INBOARD FROM FRAME AS SHOWN

(STATION WAGONS ONLY)

- 2 65 - 75 LB. IN.
- 1 55 - 65 LB. IN.
- 0 MUST BE FULLY DRIVEN, SEATED, & NOT STRIPPED

VIEW B

TITLE					SUPERLIFT SHOCK ABSORBER				
DATE DECEMBER 14, 1967					FIRST USED				
DR. BY W.E. MASON					1969				
CHECKED <i>[Signature]</i>					OLDSMOBILE PRODUCT INFORMATION MANUAL				
					MANUAL SEC. PAGE				
					4 116				
					SERIES PART				
					401000				



NOTE:
SEE FIGURE 3, PAGE 115
FOR INSTALLATION OF
TUBING TO SUPERLIFT SHOCK.

NOTE:
TUBE ROUTING OTHERWISE
SAME AS PAGE 116
(STD. STATION WAGON)

△ MUST BE FULLY DRIVEN, SEATED, & NOT STRIPPED

VIEW B

REVISION										TITLE									
DATE	BY	REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	APPR.	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
																1969		4	117
																35666		A	401900
															5/15/68				

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 OWNER'S GUIDE IN GLOVE BOX.

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 AND FILLER LINE INSTALLATION

1. ALL SEDANS AND COUPES
 - A. FOR CROSSOVER LINE CUT A 37" LENGTH OF NYLON TUBING.
 - B. ROUTE CROSSOVER LINE BEHIND FUEL TANK SUPPORT STRAPS AND 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.
2. ALL STATION WAGONS
 - A. FOR CROSSOVER LINE CUT A 47 1/2" LENGTH OF NYLON TUBING.
 - B. ROUTE AND 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

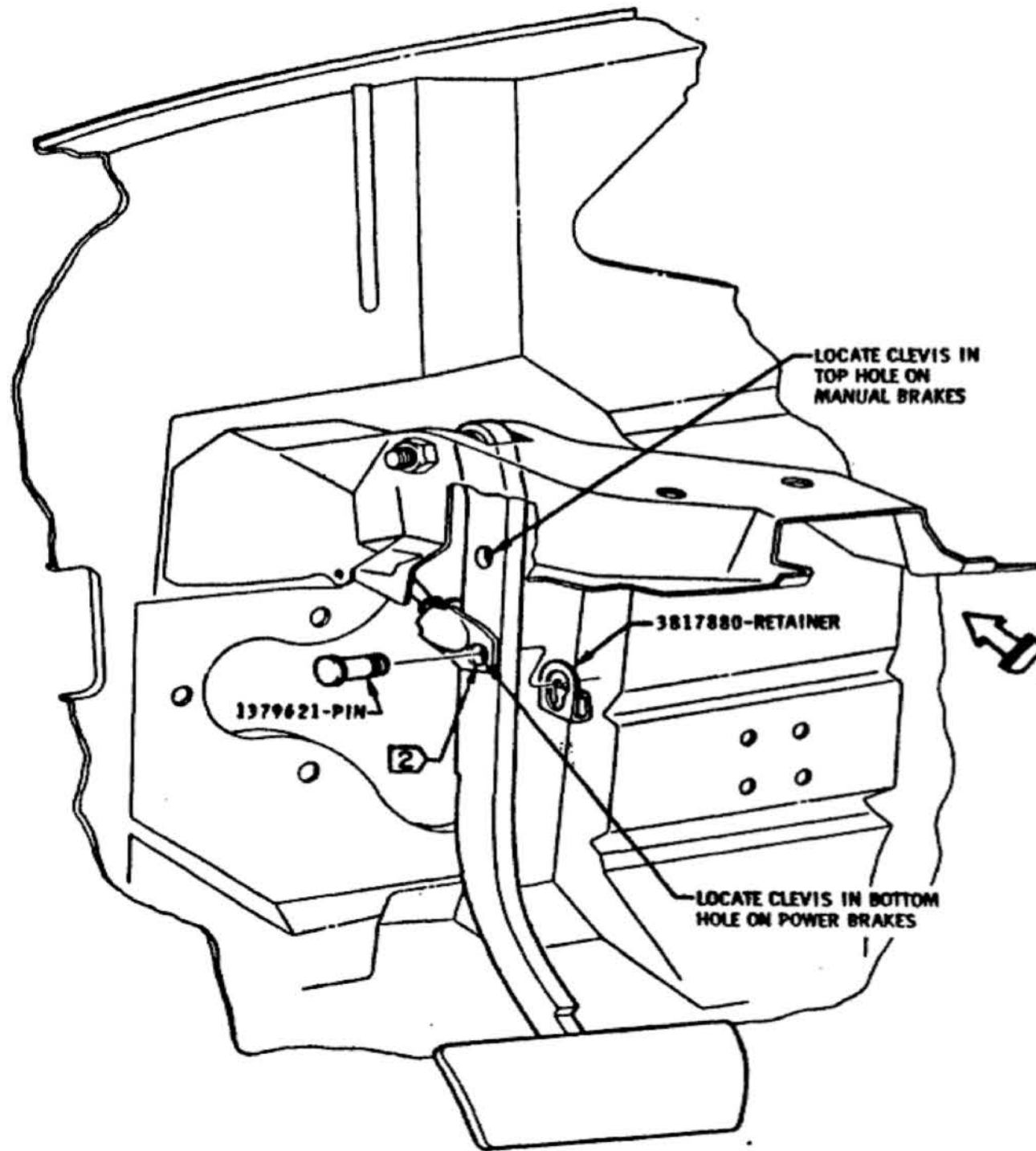
1. FILL SUPERLIFT SYSTEM THROUGH FILLER VALVE WITH AIR TO 100 PSI PRESSURE.
2. CHECK ALL FITTINGS FOR LEAKS WITH GAS LEAK DETECTOR, LIQUID DETERGENT, OR A SOAP AND WATER SOLUTION. CORRECT ANY LEAKS FOUND.
3. EXHAUST AIR FROM SYSTEM BY DEPRESSING STEM IN FILLER VALVE NECK. RETAIN A MINIMUM PRESSURE OF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

DATE	BY	REVISION	DR. CK.	DATE	BY	REVISION	DR. CK.	DATE	BY	REVISION	DR. CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
												SUPERLIFT SHOCK ABSORBER	1969		4	118
												DATE: DECEMBER 14, 1967	REF. 35666	SERVS. A	PART NO. 401900	
												DR. BY: W.C. HASON				
												CHECKED: M. Barnhart				
												APPR. J.O. L...				
												APPR. 5/11/68				

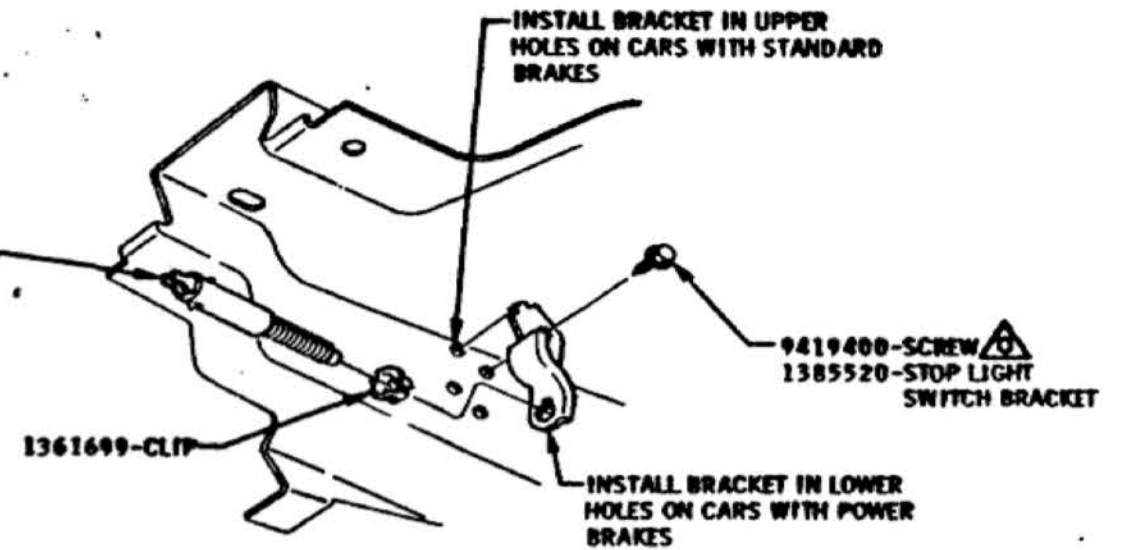


SECTION 5 BRAKE SYSTEM

- 110** BRAKE CYLINDERS, BRACKET AND ARM
- 111** BRAKE SWITCHES
- 112** BRAKE PIPING
- 116** POWER VACUUM HOSES
- 117** PARKING BRAKE



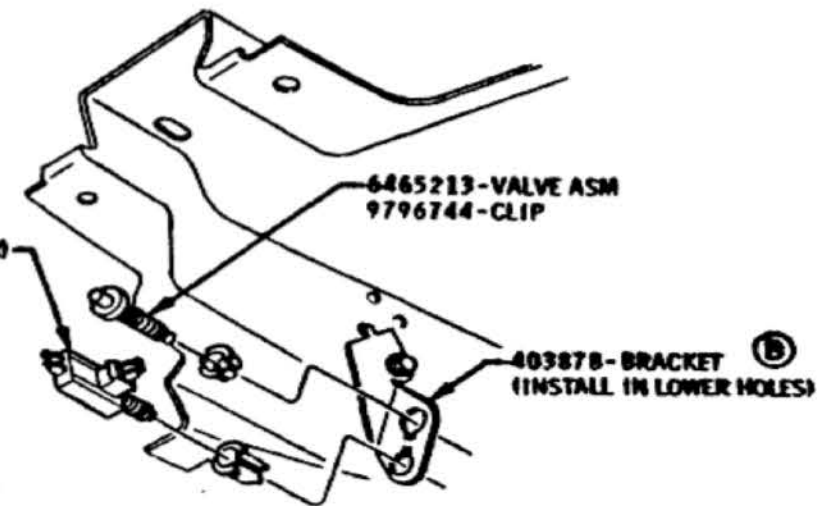
1362835-SWITCH ASSY-
STOP LIGHT
1383050-SWITCH ASSY-
STOP LIGHT (OPT.)



VIEW A

EXC. CRUISE CONTROL

3902264-SWITCH ASM
CLIP (SAME AS STANDARD CAR)



VIEW B

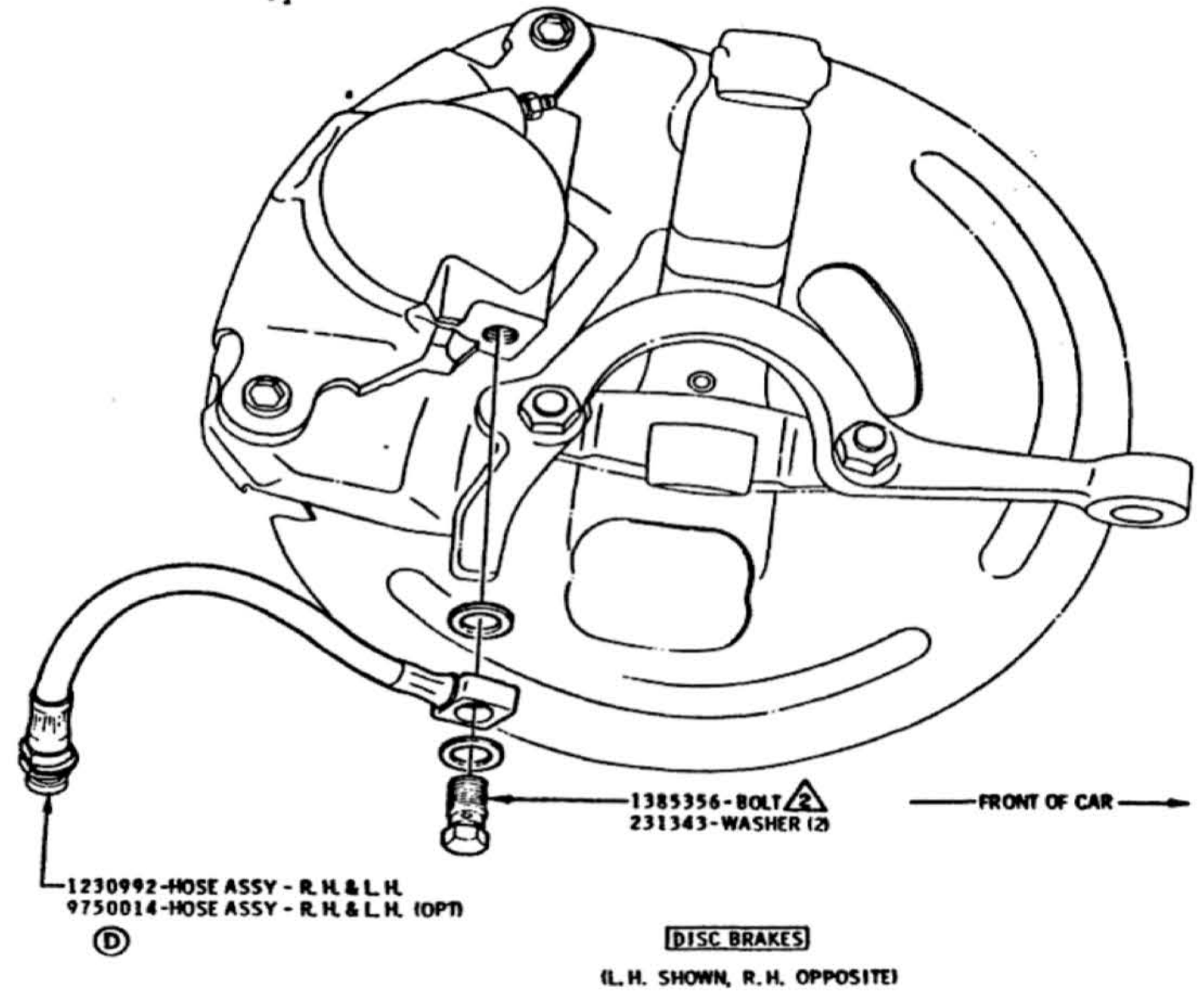
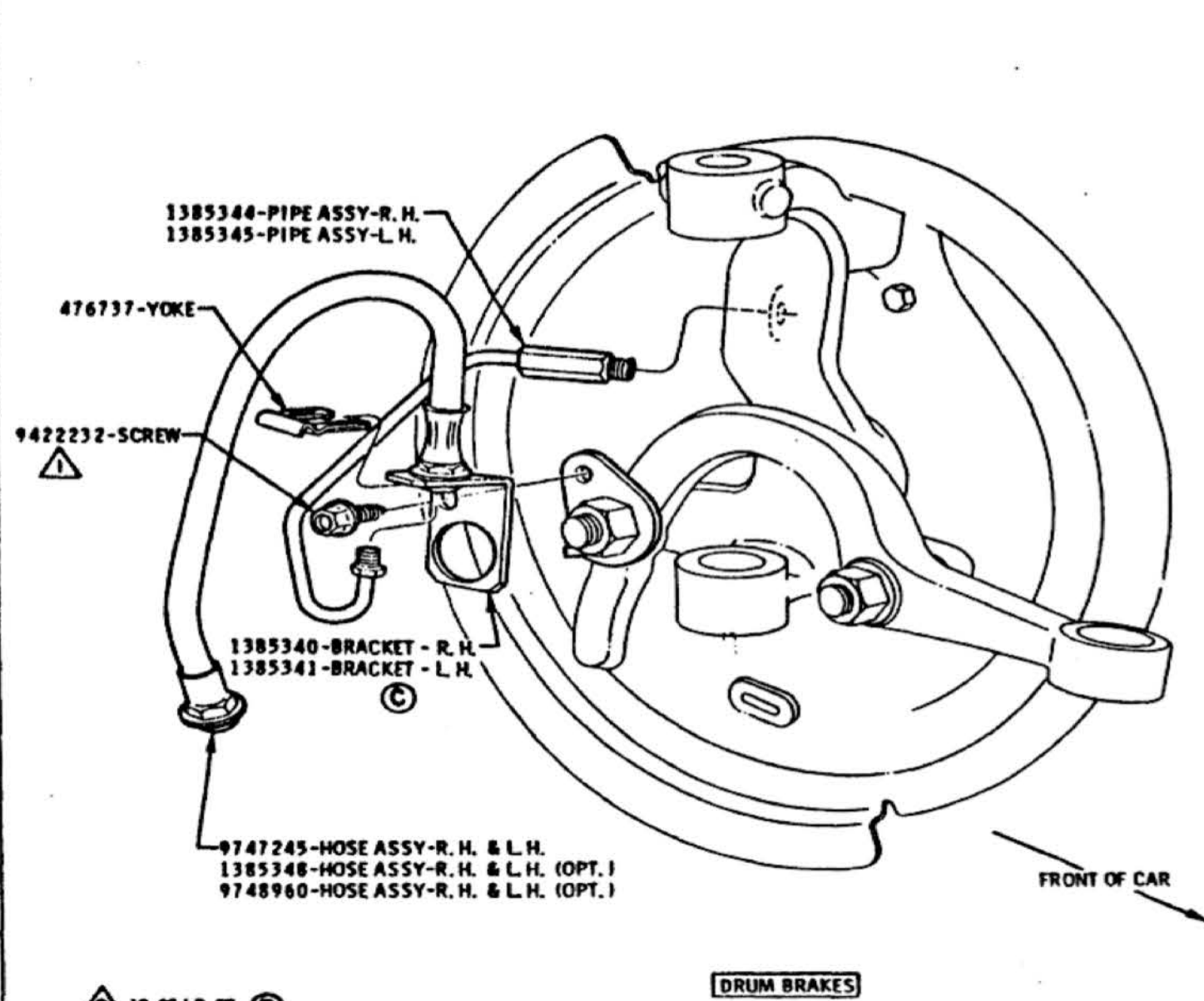
CARS WITH CRUISE CONTROL

- VALVE ASM AND STOP LIGHT SWITCH**
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.

D MUST BE FULLY DRIVEN SEATED AND NOT STRIPPED

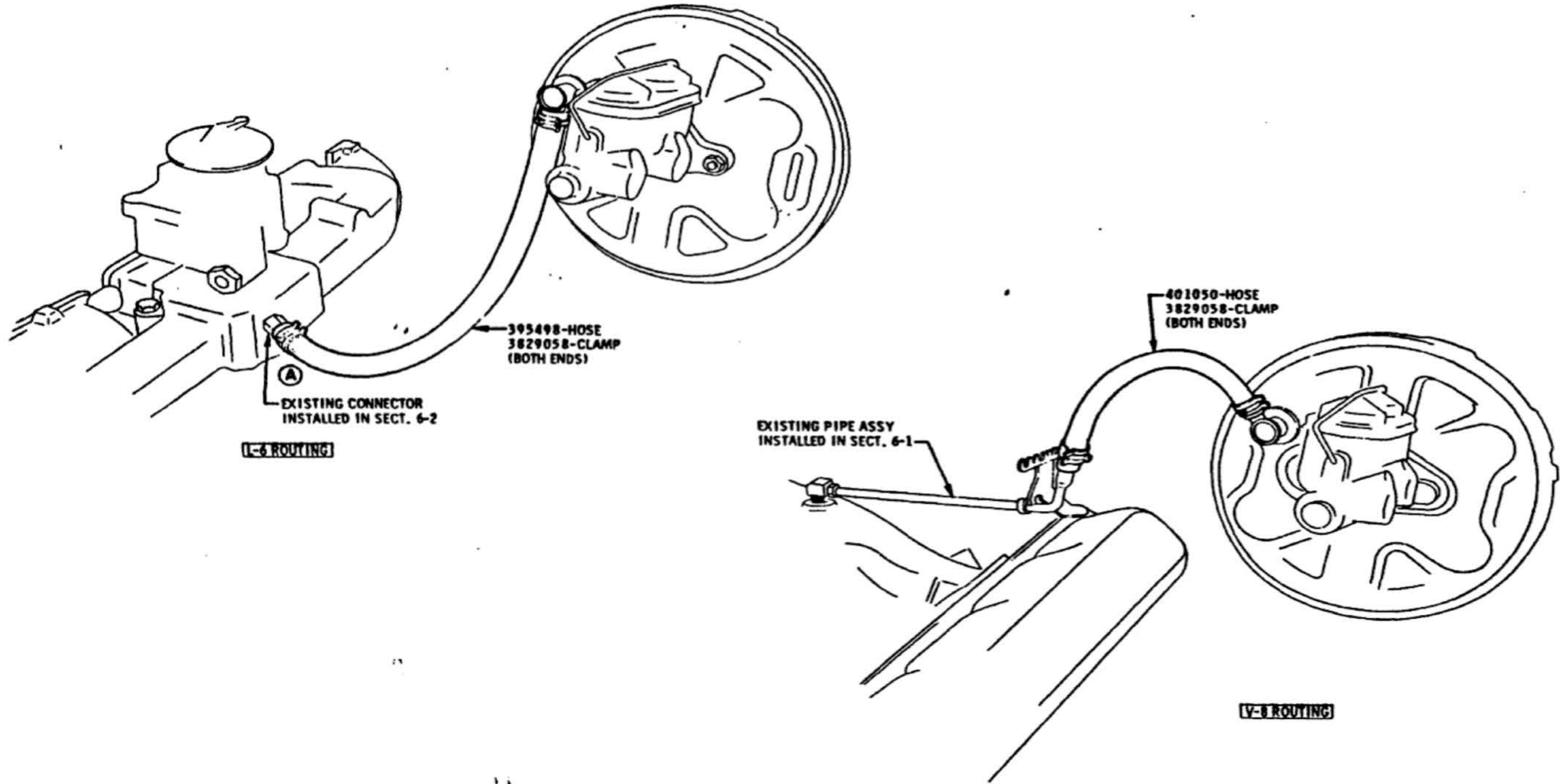
2 LUBRICATE AREAS INDICATED WITH 9985038 GREASE

REV.	DATE	BY	CHK.	SYMBOL	REVISION	DR.	CHK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
9-13-68	D				TORQUE REV.	J13			DATE NOVEMBER 21, 1967	1969		5	111
6-11-68	C				SWITCH ADDED	J13			DR. BY ISOYER				
6-11-68	B				WAS 1385520 BRACKET	J13			CHECKED BY <i>[Signature]</i>				
3-21-68	A				WAS 72-94 LB. IN.	PR			APPR. <i>[Signature]</i>	NET 50 12E 35X90	SERIES A	PART NO.	401900



2 18-25 LB. FT. (E)
1 72-120 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	OLDMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
																				KNUCKLE SHOP ASSEMBLY PIPING AND HOSE ROUTING	1969	5	113	
					8-21-68	1	18-25 WAS 30-40 LB. FT.													DATE DECEMBER 21, 1967				
					6-3-68	D	WAS 1385356 9748960 HOSE													DR BY 1-1 YEL				
					5-22-68	C	WAS 1385362-3 BRACKET													CHECKED PFBarnhart				
					3-27-68	B ₂	TITLES REVISED													APP. J. K. ...				
					2-29-68	A	WAS 1385340-1 BRACKET													APP. ...	REF. 51			
																					35JL2	A	401900	



												TITLE		POWER BRAKE VACUUM HOSE ROUTING								
												DATE	NOVEMBER 16, 1967	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	5	PAGE	116		
												DR. BY	130YER	REV.	35.150	OLDMOBILE PRODUCT	INFORMATION MANUAL					
												CHECKED	<i>[Signature]</i>	APP.	<i>[Signature]</i>	SERIES	A	PART NO.	401900			
												3-12-68	A	HOSE ROUTING REV.	J13	APP.	<i>[Signature]</i>					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION

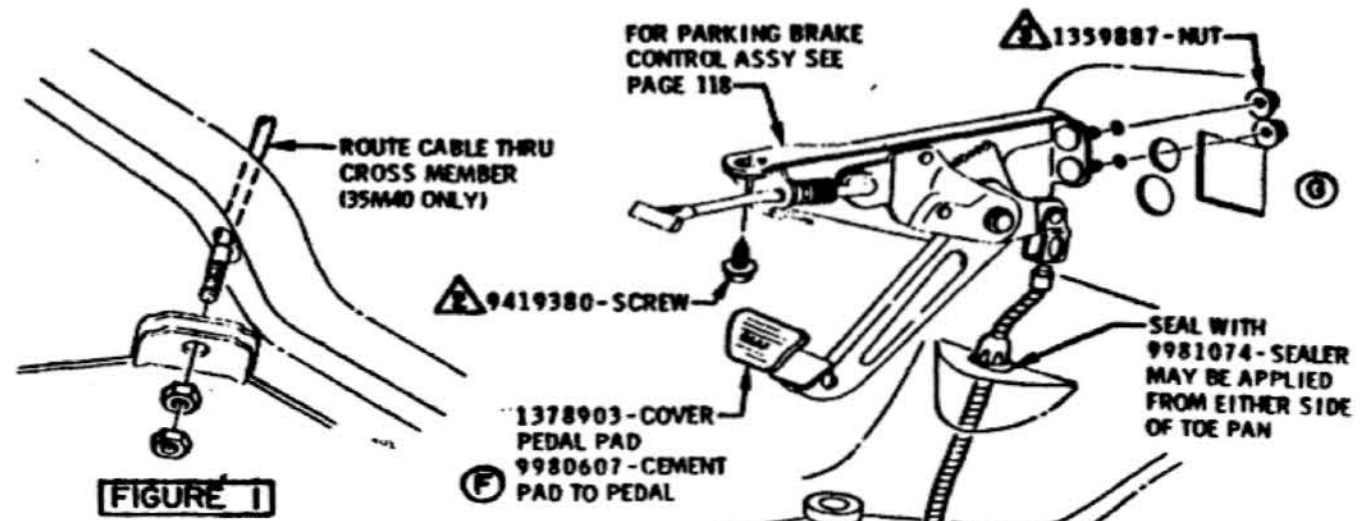
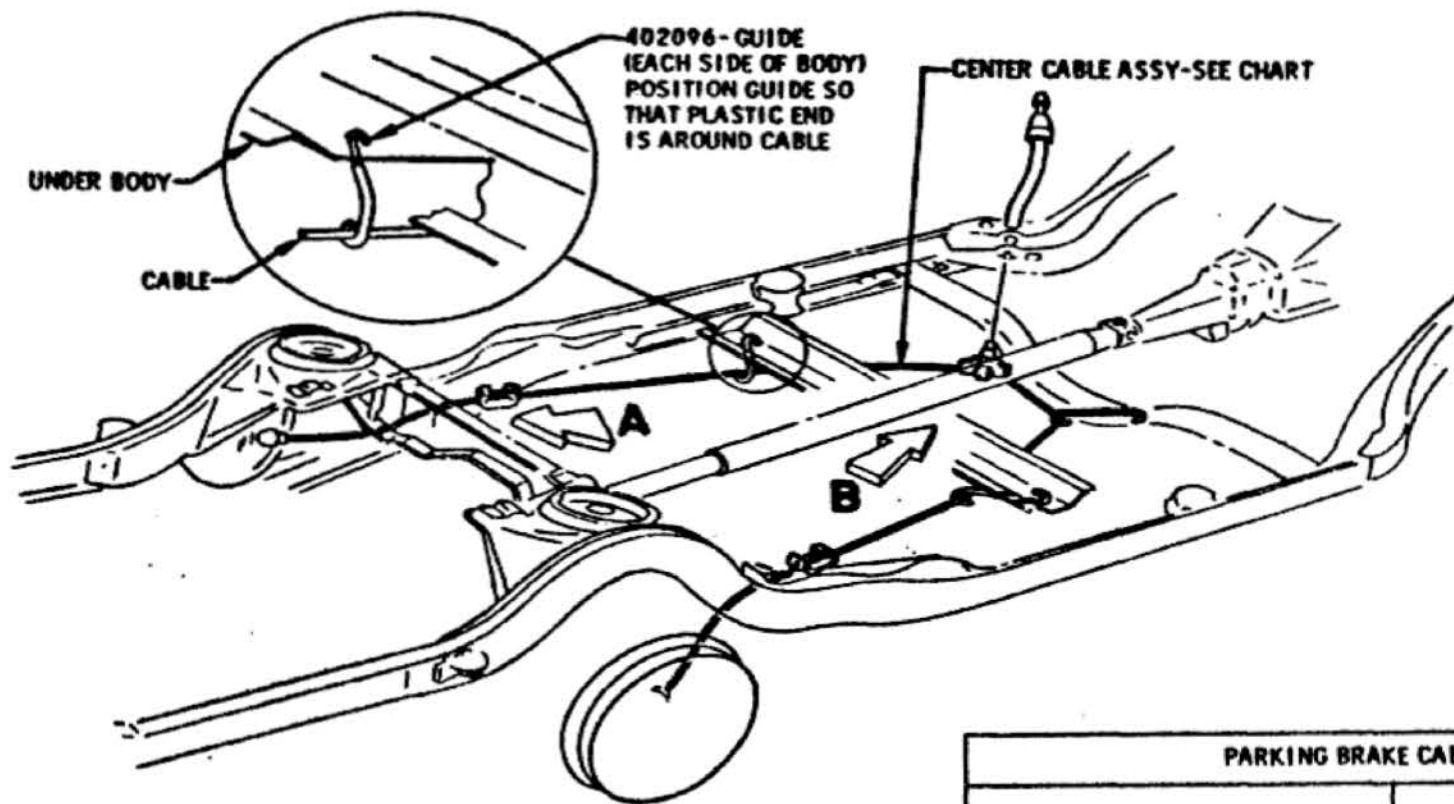
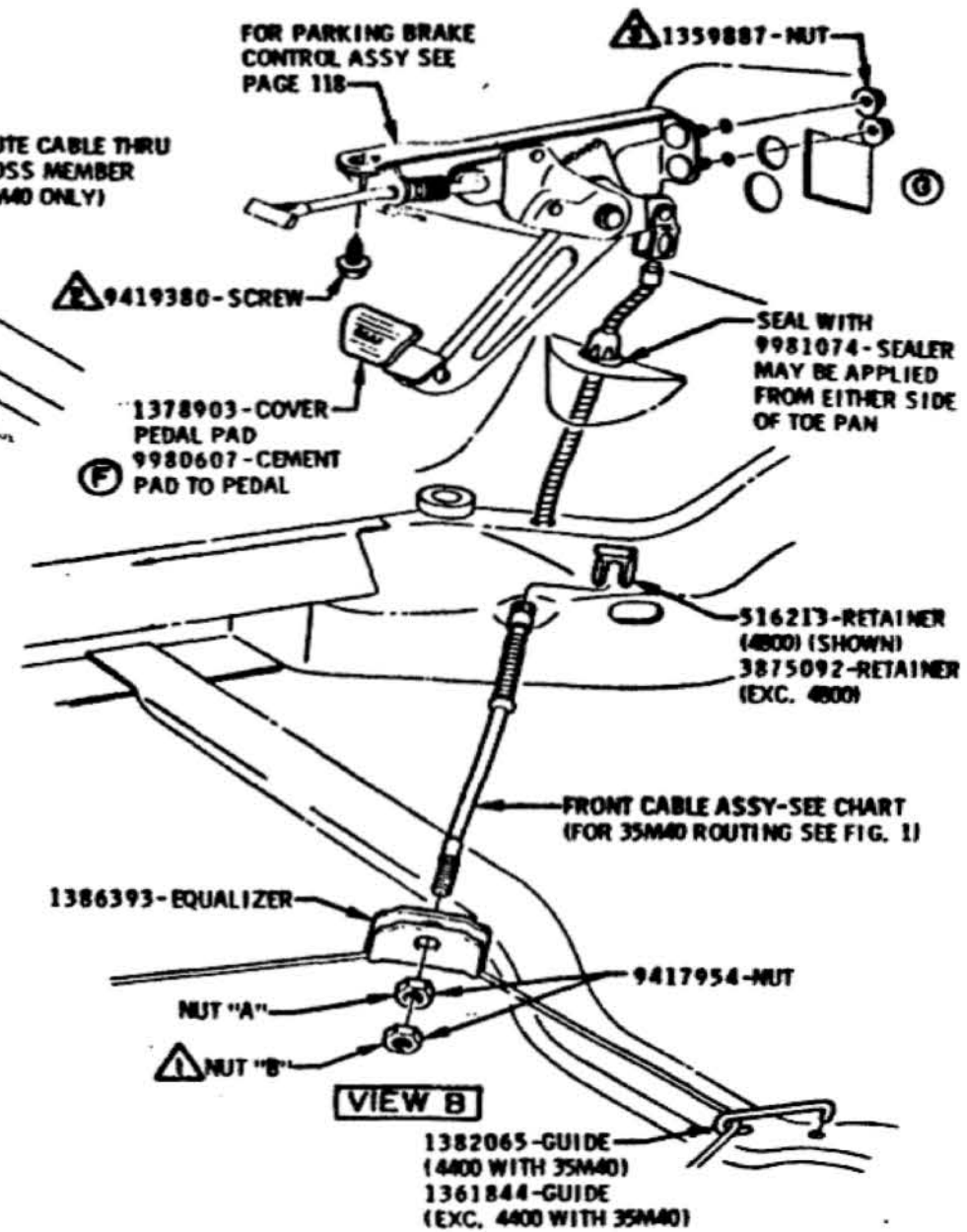


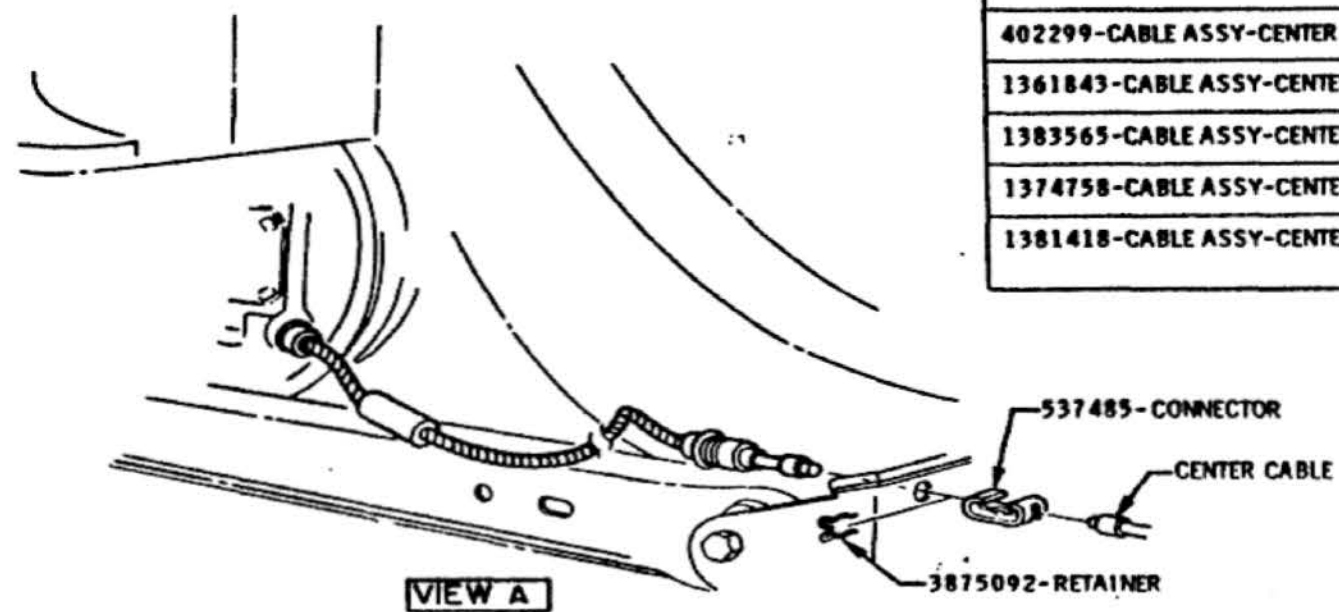
FIGURE 1



- (E) HOLD THREADED END OF CABLE AND ADJUST NUT "A" TO PRODUCE A PEDAL LOAD OF 65 TO 90 LBS. WHEN PEDAL IS DEPRESSED TO 5 CLICKS. IF OVER 90 LBS.
1. RELEASE PARKING BRAKE.
 2. PULL ON FRONT END OF EITHER REAR CABLE.
 - MOVEMENT OF CABLE THROUGH THE CONDUIT WITH LESS THAN 10 LB. PULL INDICATES BRAKES ARE NOT DRAGGING AND ADJUSTMENT IS SATISFACTORY.
 - NO MOVEMENT INDICATES THE BRAKE IS NOT ADJUSTED PROPERLY. ---READJUST BRAKE---
- HOLD NUT "A" AND TIGHTEN NUT "B" TO SPECIFIED TORQUE.

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

PARKING BRAKE CABLE CHART			
CABLE NUMBER	WHEEL BASE	TRANS.	CODE
401991-CABLE ASSY-FRONT 403226-CABLE ASSY-FRONT (OPT)	ALL	EXC. M40	AA
401990-CABLE ASSY-FRONT 403227-CABLE ASSY-FRONT (OPT)	ALL	35M40	AB
402299-CABLE ASSY-CENTER	112" W/B	EXC. M40	E
1361843-CABLE ASSY-CENTER	116" W/B		SB
1383565-CABLE ASSY-CENTER	121" W/B	EXC. M40	SD
1374758-CABLE ASSY-CENTER	112" W/B	35M40	SG
1381418-CABLE ASSY-CENTER	121" W/B (4000)	35M40	



VIEW A

DATE	SYM	REVISION	DR.	CL.	DATE	SYM	REVISION	DR.	CL.	DATE	SYM	REVISION	DR.	CL.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
					10-25-68	E	NOTE REVISED	J13	PTZ						PARKING BRAKE CONTROL				
					9-13-68	D	SEALER ADDED	J13	PTZ						DATE NOVEMBER 27, 1967				
					8-29-68	C	NOTE ADDED	J13	PTZ						DR. BY 130YER	1969		5	117
					11-27-68	G	SEALER NOTE REMOVED	PL	PTZ	2-29-68	B	CHART REV.	J13	PTZ	CHECKED P. Barnhart	REF. 5D			
					11-12-68	F	WAS 9985027 SEALER	J13	PTZ	2-16-68	A	PEDAL LOAD WAS 55-65 LBS.	J13	PTZ	APPR. 2-16-68	35M40	SERIES A		PART NO. 401900



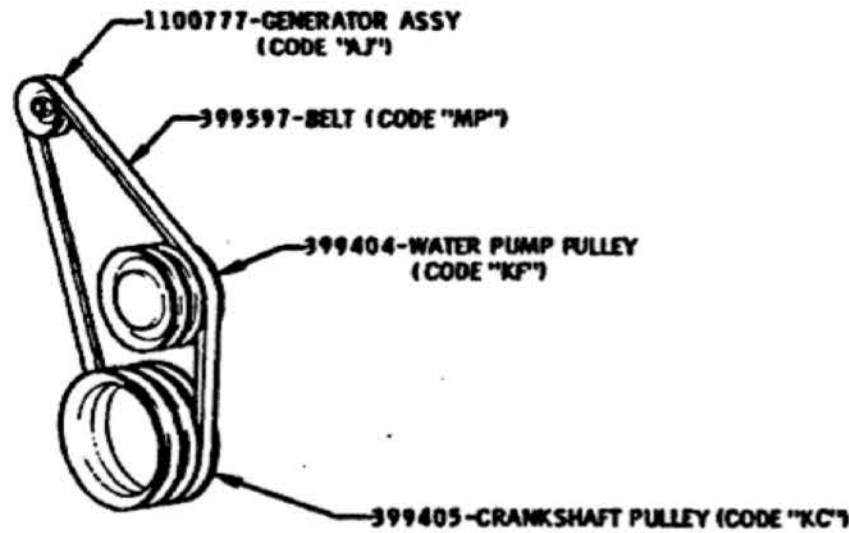
SECTION 6-1 V8 ENGINE DRESS

100	ENGINE CHARTS
120	ENGINE CONVERSION
125	ENGINE DRESS-UP
210	AIR CONDITIONING
350	35K30

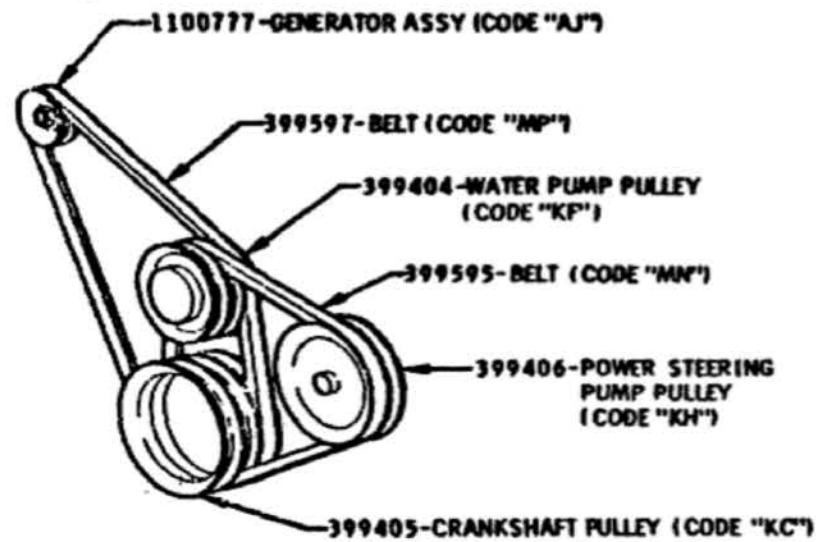
DATE 6-17-68

MANUAL NO. 401900

SERIES A



HEAVY DUTY GENERATOR



HEAVY DUTY GENERATOR WITH POWER STEERING

BELT TENSION

BELT TENSION TO CHECK 1101254 ON BURROUGHS TOOL 33-95 ON INSTALLATION. TO CHECK 70# MINIMUM AFTER CAR HAS BEEN RUN ON TEST ROLLS.

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

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
																				PULLEY AND BELT DIAGRAM - 350 CU. IN. V8 ENGINE	1969	6-1	111	
																					REF. 35N80 35Y72	SERIES A	PART NO. 401900	

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

TO CONVERT 350 CU. IN. SM OR EXPORT ENGINES TO C60, THE FOLLOWING IS REQUIRED:						
ITEM	2 BBL		4 BBL		REMOVE	INSTALL
	S.M.	A.Y.	S.M.	A.T.		
BODY ASSEMBLY - WATER PUMP	X	X	X	X	403034	# 403035
GASKET - W/P	X	X	X	X	★ 385936	385936
BOLT - FRONT COVER TO BLOCK	X	X	X	X	271486	394453
BRACKET - GENERATOR	X	X	X	X	397209	--
BOLT - GENERATOR BRACKET	X	X	X	X	(3) 9418822	--
DASHPOT ASSEMBLY				X	--	401159
BRACKET - DASHPOT				X	--	399625
NUT - DASHPOT TO BRACKET				X	--	9418892
BOLT - BRACKET TO MANIFOLD				X	--	9419029
NIPPLE - HEATER HOSE	X	X	X	X	399467	--
HOSE - DISTRIBUTOR VACUUM	X	X			575712	404517
CONN.-DIST. VAC. HOSE (STL. TUBE)	X	X			404253	--
HOSE - DISTRIBUTOR VACUUM (1.50)	X				404572	--
HOSE - DISTRIBUTOR VACUUM			X	X	393588	404517
PLUG - T.V.S. HOLE	X	X	X	X	103880	--
PLUG - INT. MANIFOLD VAC. HOLE	X		X		103877	--
SWITCH ASM-THERMOSTATIC VACUUM	X	X	X	X	--	403398
ELBOW - INTAKE MANIFOLD VACUUM	X		X		--	393030
HOSE - T.V.S. TO CARB. VACUUM	X				--	393586
HOSE - T.V.S. TO INTAKE MANIFOLD	X			X	--	400508
HOSE - T.V.S. TO CARBURETOR			X	X	--	392617
HOSE - T.V.S. TO INTAKE MANIFOLD			X		--	393586
TEE - VACUUM (RUBBER)		X		X	--	574372
HOSE - ORIFICED TEE TO MANIFOLD		X			392613	--
HOSE - MODULATOR VACUUM		X			392616	393586
HOSE - T.V.S. TO INTAKE MANIFOLD		X			--	392613
HOSE - T.V.S. TO RUBBER TEE		X			--	392613
HOSE - CARBURETOR TO RUBBER TEE		X			--	404572
CONNECTOR - VACUUM		X		X	--	(2) 575714
PUMP ASSEMBLY - FUEL (4800 ONLY)			X		6440704	6440665

A.T. ENGINES EXCEPT EXPORT CANNOT BE CONVERTED.

CONVERT TO 35Y72 BY THE FOLLOWING:		
ITEM	REMOVE	INSTALL
BODY ASSEMBLY - WATER PUMP	403034	# 403035
GASKET - WATER PUMP	★ 385936	385936

REV.	DR.	CL.	DATE	SYM.	REVISION	DR.	CL.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL NO.	PAGE
11-19-68	K				CONVERSION ADDED	RM	JF		ELBOW ADDED	1969	6-1	120	
11-19-68	J				LINE ADDED	RM	JF		LINE ADDED				
10-31-68	H				LINE ADDED	RM	JF		LINE REMOVED				
9-30-68	G				REVISED	RM	JF		100CUIN.CONVERSION REVISED				
12-29-69	C				CONVERSION REVISED	RM	JF		CONVERSION ADDED				

**1969 350 & 400 CUBIC INCH ENGINE ASSEMBLY
CONVERSION PROCEDURES**

CONVERT TO L31 ON 4800 SERIES BY THE FOLLOWING.

RESET DISTRIBUTOR TIMING FROM 8° AT 850RPM TO 10° AT 850RPM.
RE-CHISEL MARKING NOT REQUIRED

ALL PROCEDURES WHICH APPLY TO PARTS ASSEMBLED IN THE ENGINE PLANT REGARDING TORQUES, PAINTING, LUBRICANTS, PROCESS MATERIALS, ETC., ALSO APPLY TO ALL FINAL ASSEMBLY CONVERSION PARTS.

NOTES:

★ SCRAP

PAINT WITH ENGINE ENAMEL

FOR ENGINE CONVERSION INSTALLATION DRAWINGS SEE SECTION 6-Q, & 6-L.

CONVERT ENGINE ASSEMBLY 403320 (QP) FOR 4800 WITH L74 AND C60 AND M40 BY THE FOLLOWING:

ITEM	REMOVE	INSTALL
PUMP ASSEMBLY - FUEL	6440704	6440665

TO CONVERT 400 CU. IN. SM ENGINE (QW) TO C60, THE FOLLOWING IS REQUIRED:

ITEM	REMOVE	INSTALL
BODY ASSEMBLY - WATER PUMP	403034	# 403035
GASKET - WATER PUMP	★ 385936	385936
BOLT - FRONT COVER TO BLOCK	271486	394453
BRACKET - GENERATOR	397209	--
BOLT - GENERATOR BRACKET	(3) 9418822	--
ELBOW - INT. MANIFOLD VAC. (REAR)	103877 (PLUG)	382890
VALVE - PRESSURE REDUCER	1485744	--
CLIP - VALVE COVER	(1) 388218	--

CONVERT ENGINES TO K30 BY THE FOLLOWING:

ITEM	REMOVE	INSTALL
HOSE - VENT VALVE TO CARB. (4BBL. ONLY)	404538	403602
ELBOW - MANIFOLD VACUUM	103877 (PLUG)	382890

CONVERT TO V01 BY THE FOLLOWING:

ITEM	REMOVE	INSTALL
BODY ASSEMBLY - WATER PUMP	403034	# 403035
GASKET - WATER PUMP	★ 385936	385936

CONVERT TO U21 BY THE FOLLOWING:

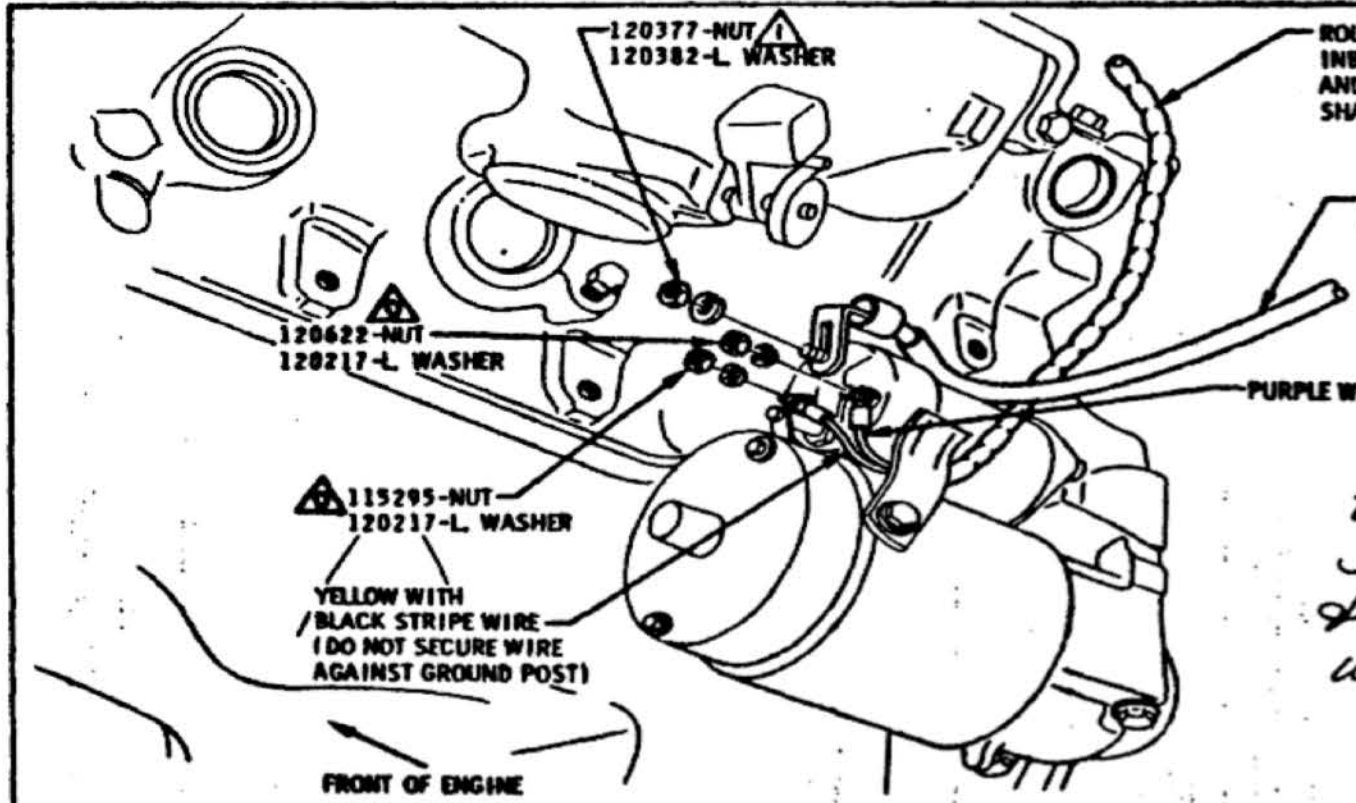
ITEM	REMOVE	INSTALL
GAGE - ENGINE OIL	3815936	6460992
ELBOW - GAGE TO BLOCK	--	401559
Ⓜ SWITCH ASM - WATER TEMP	1997582	6402383

CONVERT TO J50 OR JL2 BY THE FOLLOWING

ITEM	REMOVE	INSTALL
PLUG - POWER BRAKE VACUUM HOLE	103878	143343 (ELBOW)

CHART - ENGINE CONVERSION

DATE	MARCH 30, 1969	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	6-1	PAGE	120
DR. BY	DON MALKIN	CHECKED	28	SERIES	A	PART NO.	402922



ROUTE ENGINE HARNESS ASM INBOARD OF STARTER CABLE AND FORWARD OF EQUALIZER SHAFT (P)

BATTERY CABLE ASSY (SEE CHART)

PURPLE WIRE

*must be 6° clock
not 4° clock
too close to ex pipe
flange w/ ground
& car wants to start
w/o key.*

STARTER CABLE & HARNESS TO STARTER

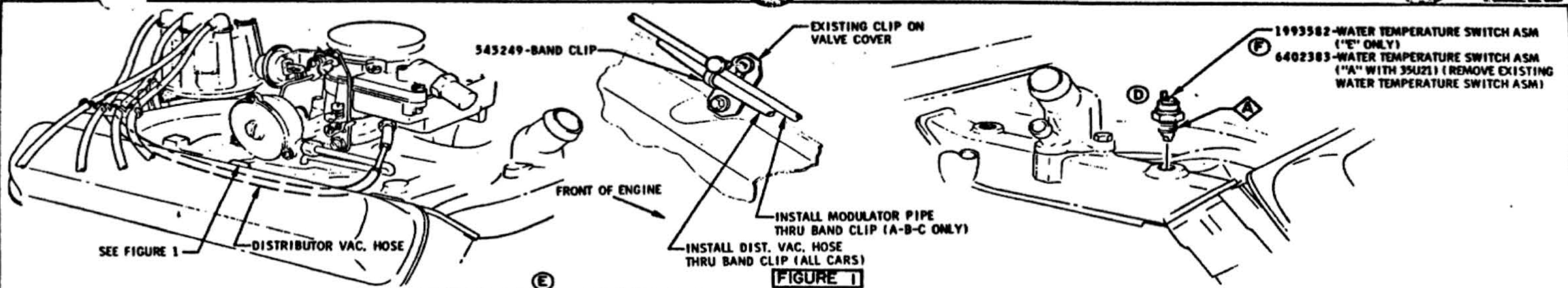
INSTALL LEAD FROM MAIN HARNESS UNDER EXISTING NUT ON POSITIVE SIDE OF COIL

SNAP RETAINER INTO EXISTING CLIP

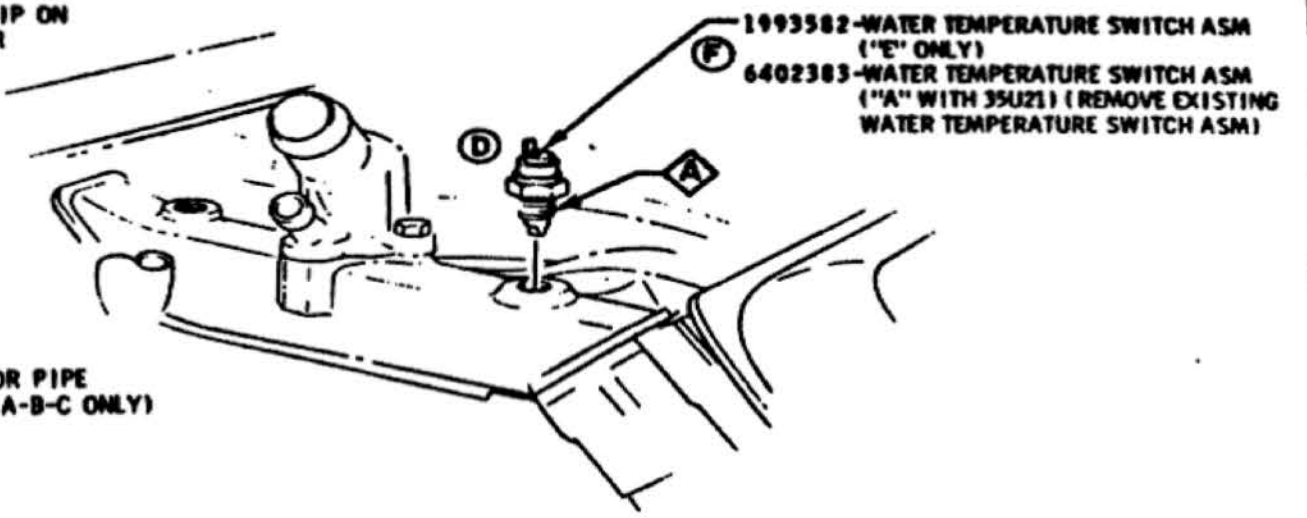
- 6299313-ENGINE HARNESS ASM ("A" CAR S.M. & 39838)
- 6293299-ENGINE HARNESS ASM ("A" CAR EXC. S.M. & 39838)
- 6295875-ENGINE HARNESS ASM (ALL B-C CARS)

BATTERY CABLE ASSEMBLY CHART			
PART NO.	CODE	CAR	USAGE
6296742	GM	"A"	S.M.T. 350 CU. IN. ENGINES
6296744	GP	"A"	A.M.T. 350 CU. IN. 2 BBL. ENGINES
6296743	GN	"A"	ALL 400 CU. IN. ENGINES A.M.T. 350 CU. IN. 4 BBL. ENGINES
6296740	KS	"B"	350 CU. IN. EXC. J12, J55 455 CU. IN. S.M.T.
6296778	KU	"BC"	455 CU. IN. A.M.T. EXC. J12, J55, L32
6296741	KT	"BC"	350 CU. IN. ENGINE WITH J12, J55 455 CU. IN. ENGINES WITH J12, J55, L32

(D)

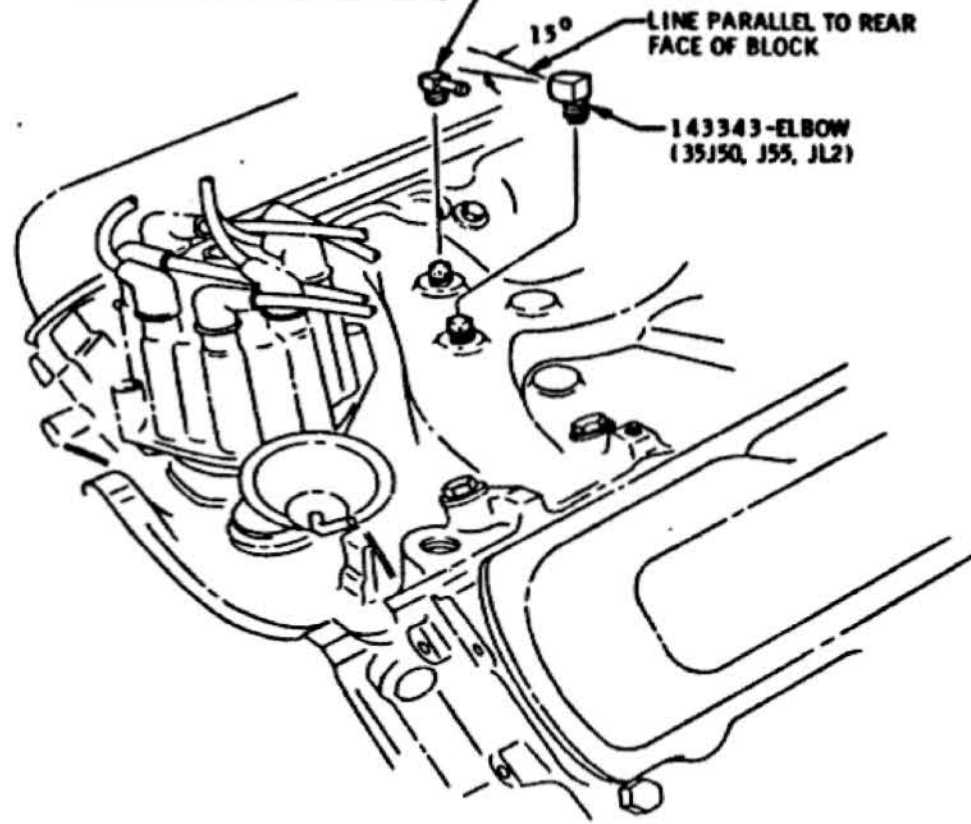


INSTALLATION DISTRIBUTOR VACUUM HOSE & MODULATOR PIPE TO VALVE COVER CLIP



INSTALLATION WATER TEMPERATURE SWITCH

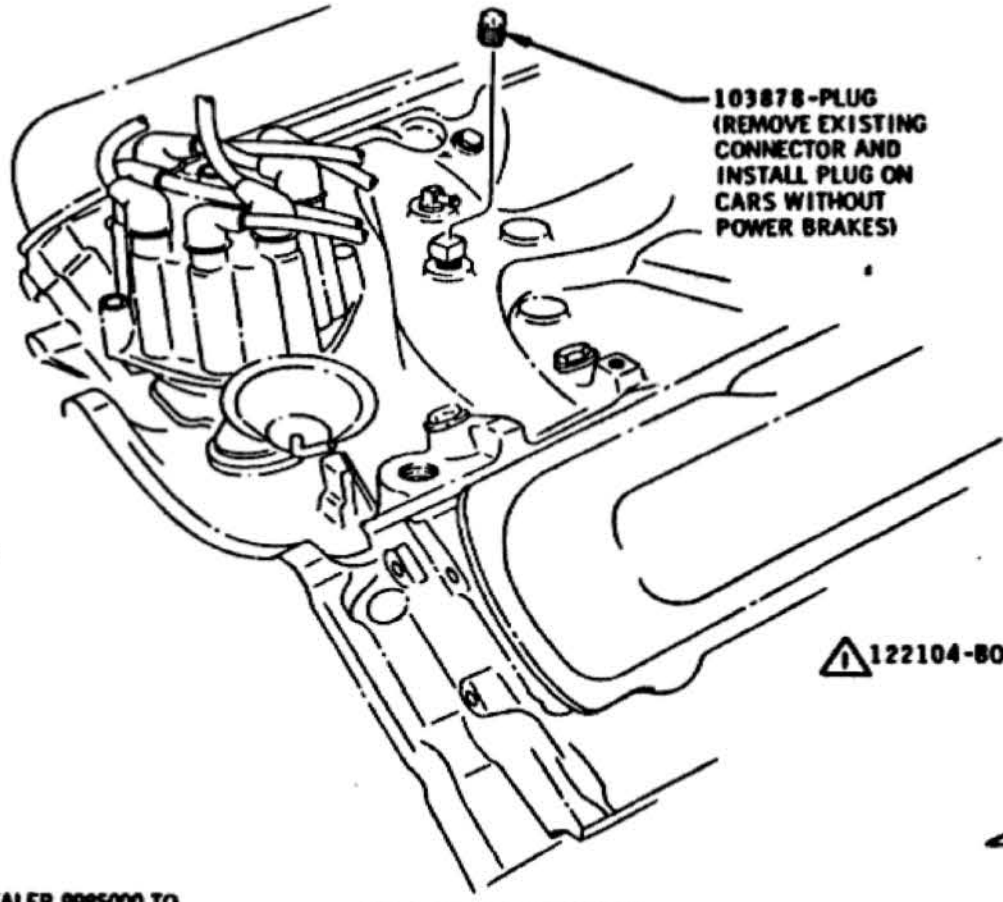
382890-ELBOW (35K30, 35A91, 35A93 AND/OR 35C60 ON NON-SCHEDULED ENGINES) POSITION NIPPLE 90° TO RIGHT.



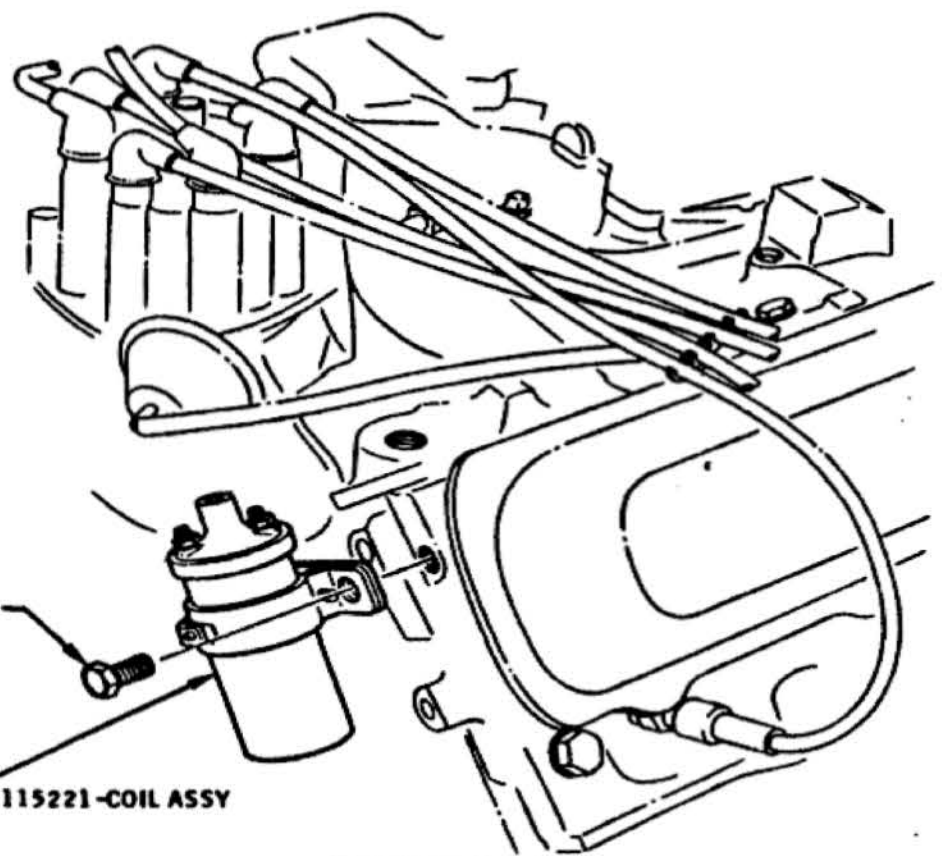
CONNECTOR INSTALLATION ("A" CAR)

⚠ 15 - 25 LB. FT.

APPLY SEALER 9985000 TO AREAS INDICATED PRIOR TO ASSEMBLY ⚠



PLUG INSTALLATION ("B-C" CAR)



COIL INSTALLATION ("E" CAR)

DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL DEC.	PAGE	
					10-7-68	E	VIEW ADDED									COIL ASSY AND MANIFOLD CONNECTORS & PLUGS					
					9-23-68	D	TEMP. SWITCH RELOCATED									DATE JANUARY 17, 1968	FIRST USED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	6-1	128	
					8-23-68	C	35A93 ADDED									DR. BY CUET 1968					
					8-19-68	B	35K66 REMOVED									CHECKED MJB/BAW					
					8-19-68	A	VIEWS REMOVED									APPR. J. E. [Signature]	REV. 6L, 6Y, 12J	SERIES A-B-C-E	PART NO. 401900-1-2		
					10-18-68	F	PART NO'S. REVISED									APPR. [Signature]					

- (H) 403402-CABLE ASSY (2BBL "A" CAR) (CODE "DA")
- 403403-CABLE ASSY (4BBL "A" CAR) (CODE "DC")
- 403551-CABLE ASSY (2BBL "B" CAR) (CODE "DG")
- 403552-CABLE ASSY (4BBL "BC" CAR) (CODE "DH")

BOTH LOCKING LUGS MUST BE EXPANDED AND LOCKED IN HOLE

BOTH LOCKING LUGS MUST BE EXPANDED AND LOCKED IN HOLE

392237-SEAL

DASH PANEL

ROUTE CABLE OVER TOP OF THROTTLE CABLE

FOR INSTALLATION OF CABLE TO TRANSMISSION SEE SECTION 7

FOR INSTALLATION OF CABLE TO ACCELERATOR PEDAL LEVER SEE SECTION 1-1

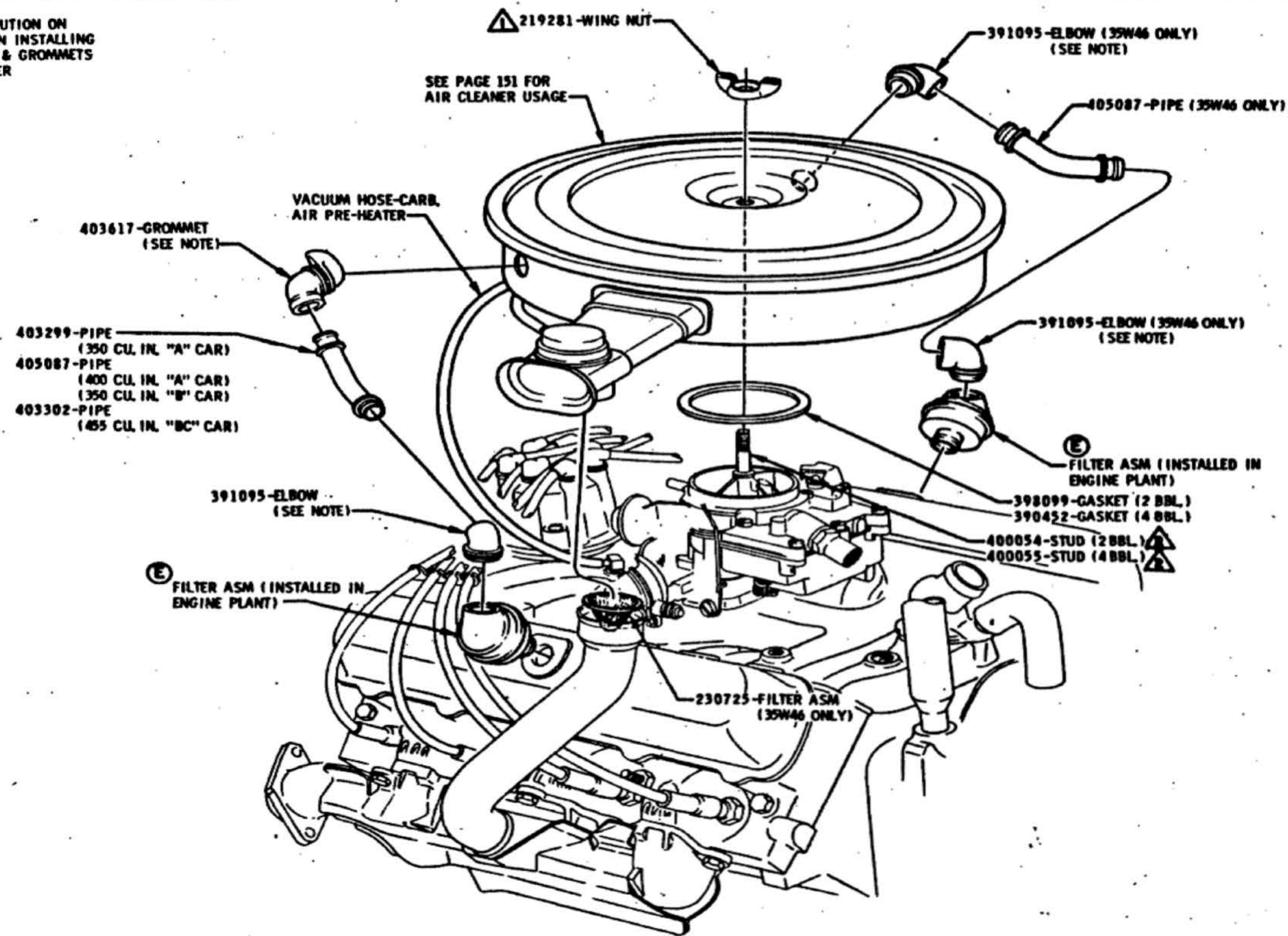
- 583105-RETAINER
- 507295-WASHER
- 403409-SLEEVE
- 403410-BUSHING

FOR THROTTLE ADJUSTMENTS, SEE CHART ON PAGE 119

35M38 TRANSMISSION DOWN SHIFT CABLE ROUTING TO DASH PANEL

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
					9-3-68	E	NOTE REVISED	PL	PS							THROTTLE CONTROL				
					9-3-68	D	NOTE ADDED	PL	PS							DATE APRIL 16, 1968	FIRST USED			
					8-12-68	C	SEALER ADDED	PL	PS							DR. BY CUET MGR	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	6-1	145
					7-22-68	B	VIEW REVISED	PL	PS							CHECKED BY <i>PTB/ambant</i>	RET. 6N2			
					5-22-68	A	VIEW ADDED	PL	PS							APPR. <i>Ronald P. Jones</i>		SERIES	PART NO.	
																5MCC 4/18/68		A-B-C	401900-1	

NOTE:
USE SOAP SOLUTION ON
GROMMET WHEN INSTALLING
ADAPTER ASM & GROMMETS
TO AIR CLEANER

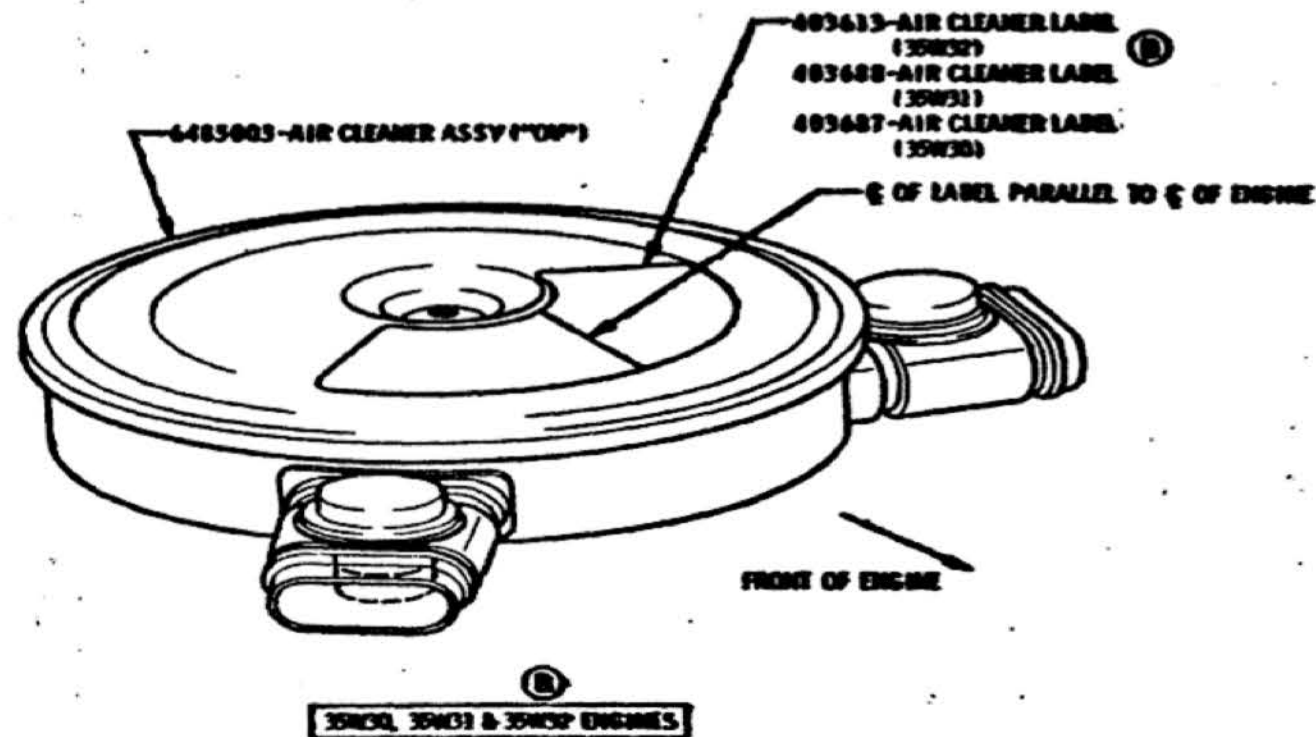
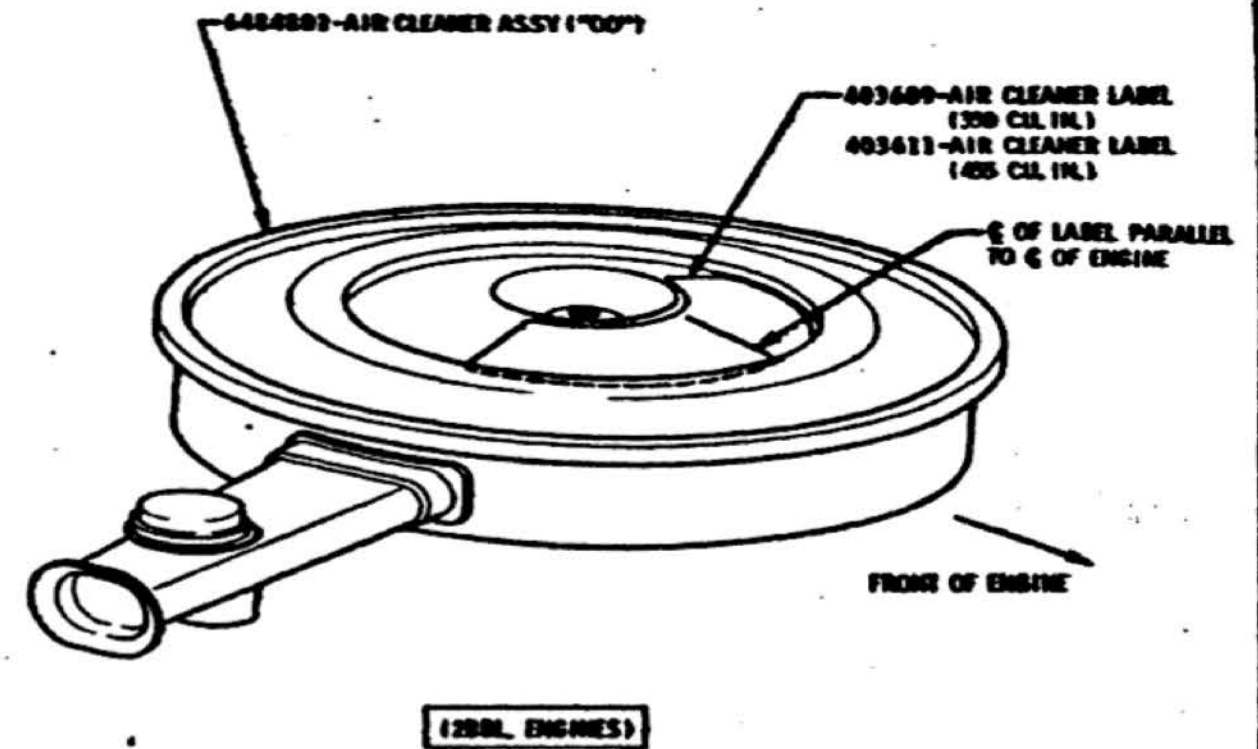
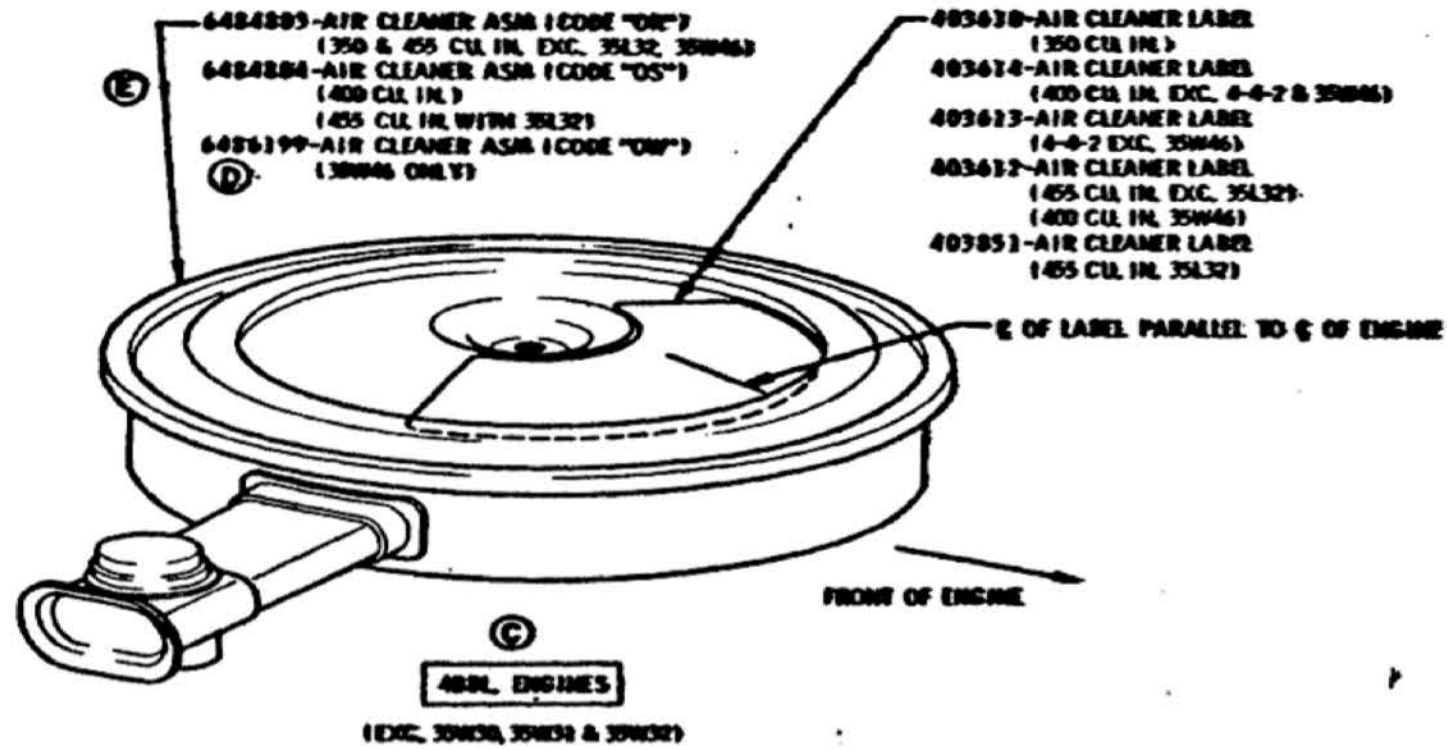


3-5 LB. FT.
12-20 LB. IN.

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.	
					3-8-69	E	PART NO'S REVISED	C.M.P.								STANDARD AIR CLEANER, CRANKCASE VENTILATION & 35W46	1969		6-1	150	A-B-C	401900-1	
					1-10-69	D	REVISED & REDRAWN	C.M.P.								DATE APRIL 17, 1968							
					11-21-68	C	PART NO'S REVISED	C.M.P.								DR. BY CLYDE PERRY							
					11-21-68	B	35W46 ADDED	C.M.P.								CHECKED 1/13/69 J.M.P.							
					9-26-68	A	BACKGROUND REVISED	C.M.P.								APPR. B. J. PERRY							
																APPR. J.M. 4/18/68	REF. 64-6M9 35W46						

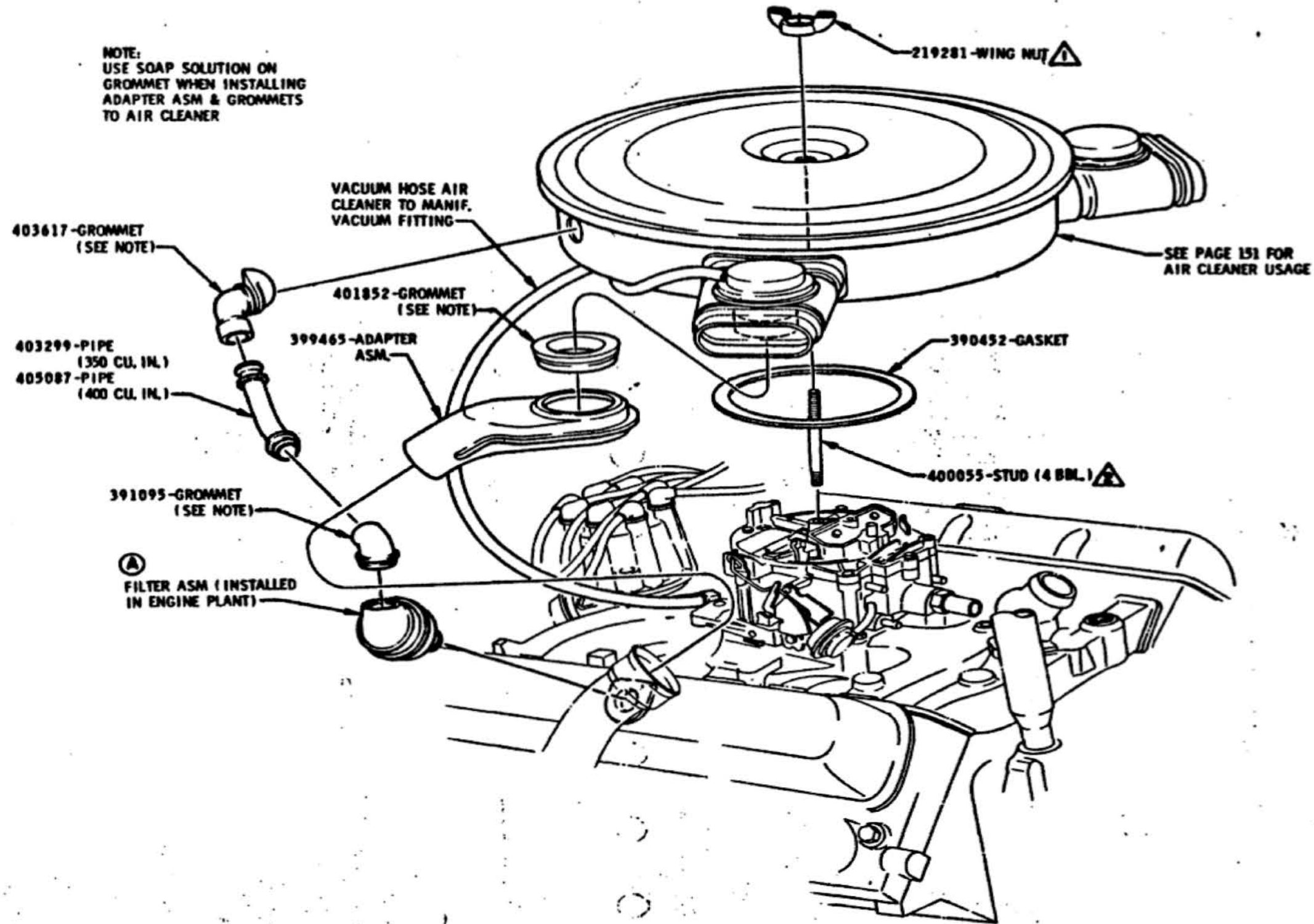
OLDSMOBILE DIVISION

GENERAL MOTOR CORPORATION
LANSING - MICHIGAN



				AIR CLEANERS & LABEL IDENTIFICATION			
3-18-69	E	NOTES REVISED	3/18/69	DATE	APRIL 17, 1968	PART USED	1969
3-18-69	D	WAS 648501E	3/18/69	DATE	APRIL 17, 1968	OLDSMOBILE PARTS DEPARTMENT	6-1
4-10-69	C	35W46 INFO. ADDED	4/10/69	DATE	APRIL 17, 1968	OLDSMOBILE PARTS DEPARTMENT	151
4-21-69	B	35W32 ADDED	4/21/69	DATE	APRIL 17, 1968	OLDSMOBILE PARTS DEPARTMENT	68 6MS
4-26-69	A	CODE LETTERS ADDED	4/26/69	DATE	APRIL 17, 1968	OLDSMOBILE PARTS DEPARTMENT	A-B-C
				PART NO. 401900-1			

NOTE:
USE SOAP SOLUTION ON
GROMMET WHEN INSTALLING
ADAPTER ASM & GROMMETS
TO AIR CLEANER

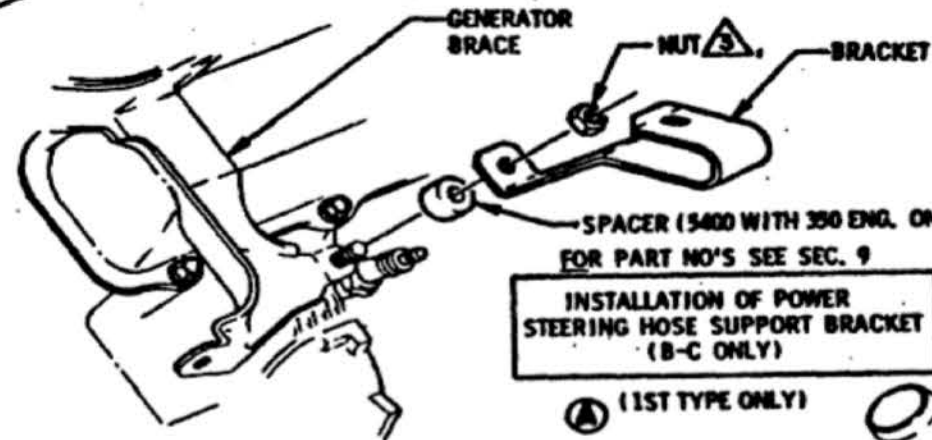


▲ 3-5 LB. FT.
▲ 12-20 LB. IN.

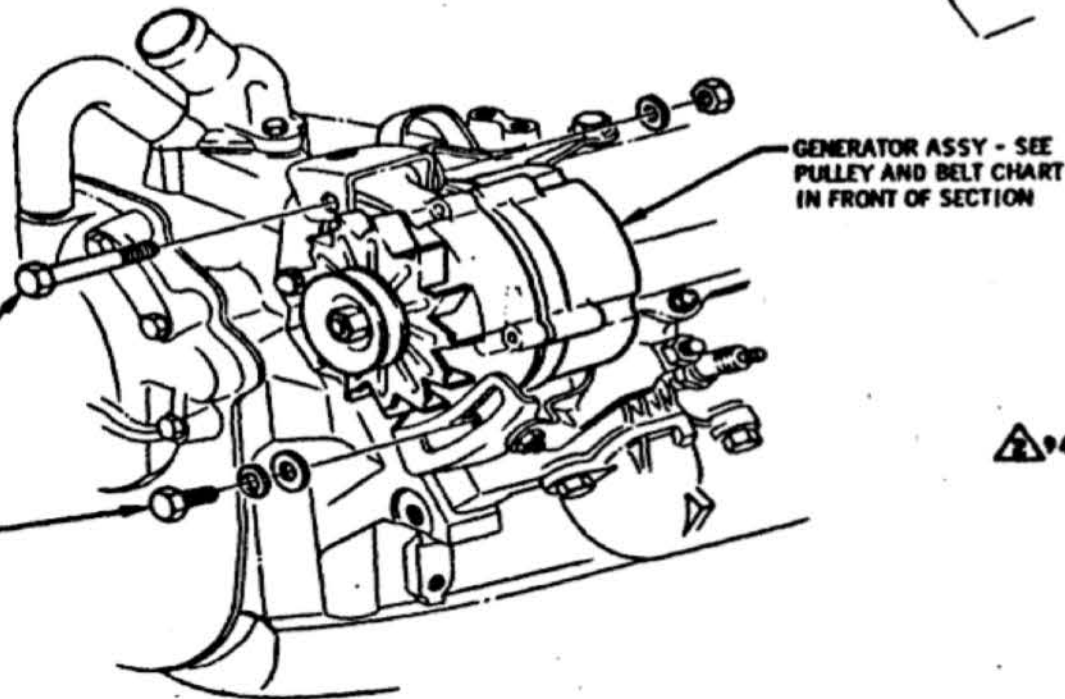
TITLE										AIR CLEANER & CRANKCASE VENTILATION (AIR INDUCTION)	
DATE										JANUARY 10, 1969	
DR. BY										CJBT MRY	
CHECKED										P. B. BART	
APPR.										1969	
REF. STD. 30										W31 W32	
SERIES										A	
PART NO.										401900	
MANUAL SEC.										6-1	
PAGE										152	

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.
					3-8-69	A	PART NO. 401900							

FRONT OF ENGINE



INSTALLATION OF POWER STEERING HOSE SUPPORT BRACKET (B-C ONLY)
(1ST TYPE ONLY)

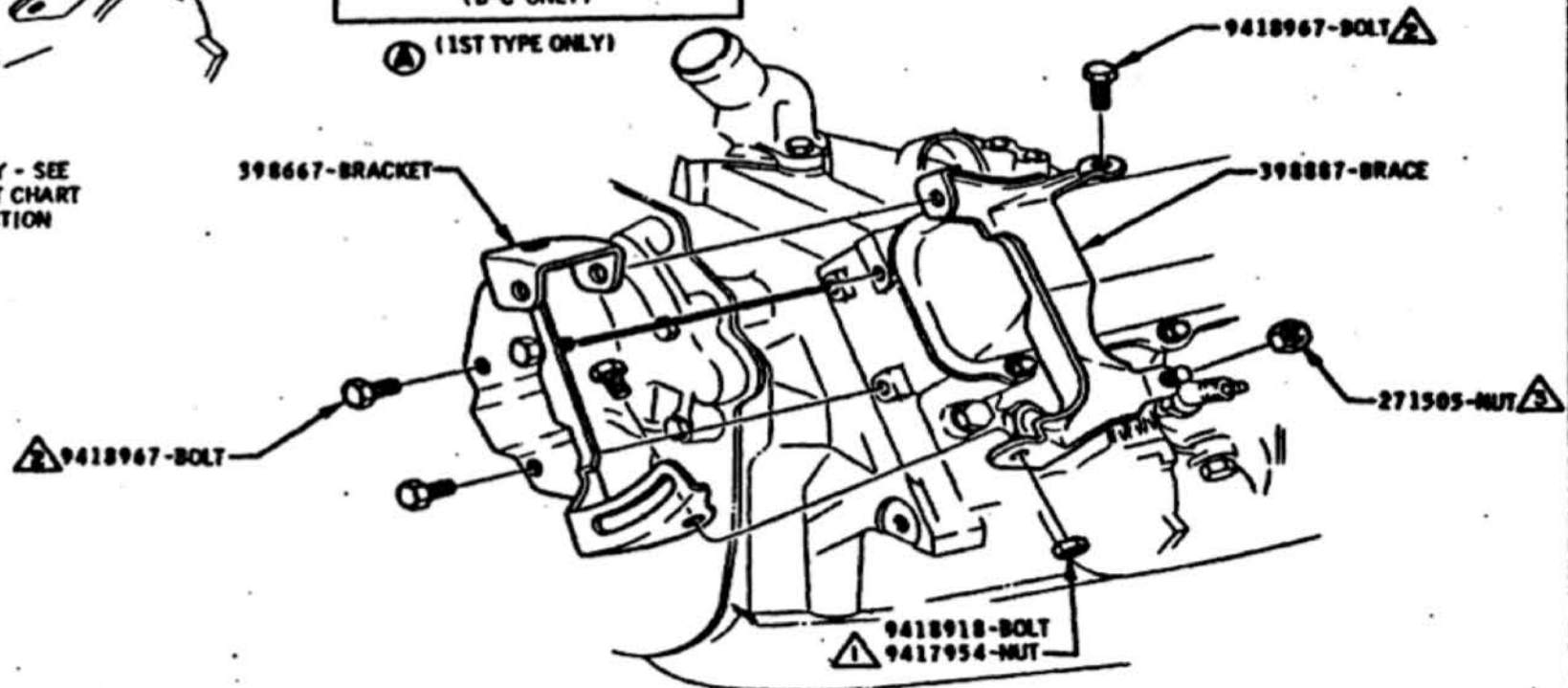


GENERATOR ASSY - SEE PULLEY AND BELT CHART IN FRONT OF SECTION

380294-BOLT
9419234-F. WASHER
9418931-NUT

9416740-BOLT
103320-L. WASHER
1371261-F. WASHER

INSTALLATION OF GENERATOR TO SUPPORTING BRACKETS



398667-BRACKET

9418967-BOLT

398887-BRACE

9418967-BOLT

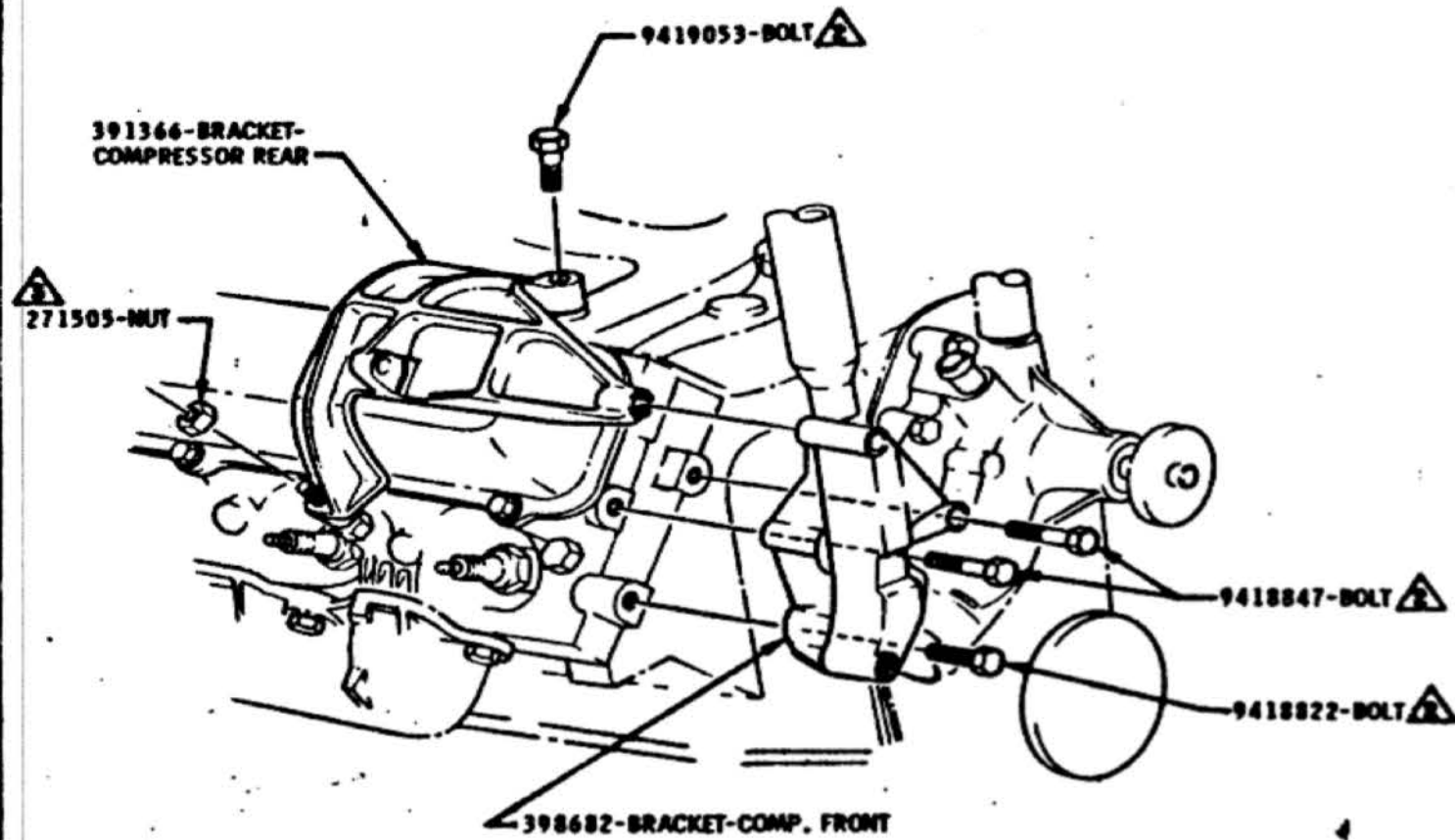
271505-NUT

9418918-BOLT
9417954-NUT

INSTALLATION OF GENERATOR BRACKET AND BRACE

- 3 40 - 30 LB. FT.
- 2 25 - 35 LB. FT.
- 1 20 - 25 LB. FT.

REVISION				REVISION				TITLE				FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL NO. PAGE	
								AIR CONDITIONING GENERATOR MOUNTING				1969		6-1		212	
								DATE JANUARY 24, 1969				REV. C60-	SERIES	A-B-C-E		PART NO. 401900-1-2	
								DR. BY CURT MANN				OSI (691)					
								CHECKED BY [Signature]									
								APPR. [Signature]									
								APPR. [Signature] 1/24/69									

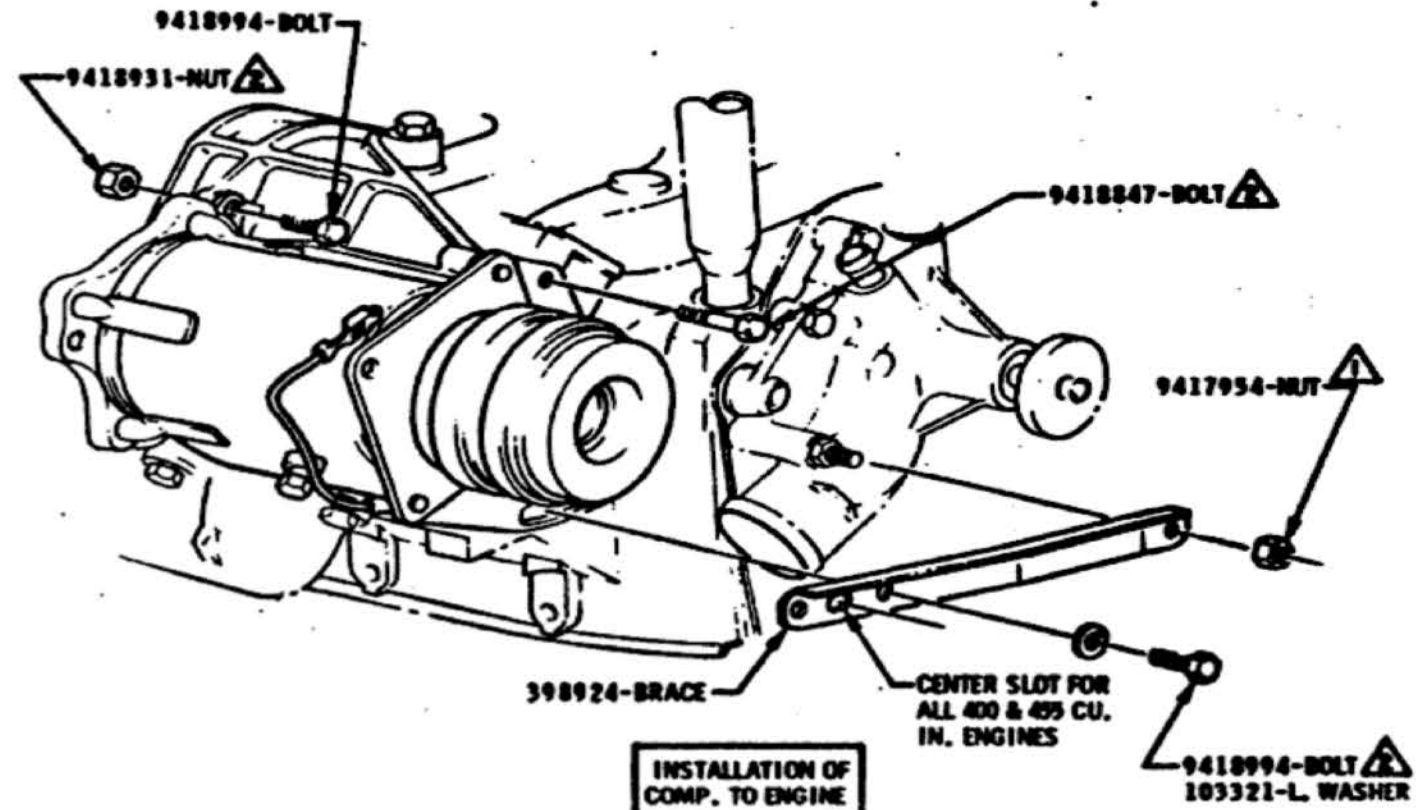


INSTALLATION BRACKETS TO ENGINE

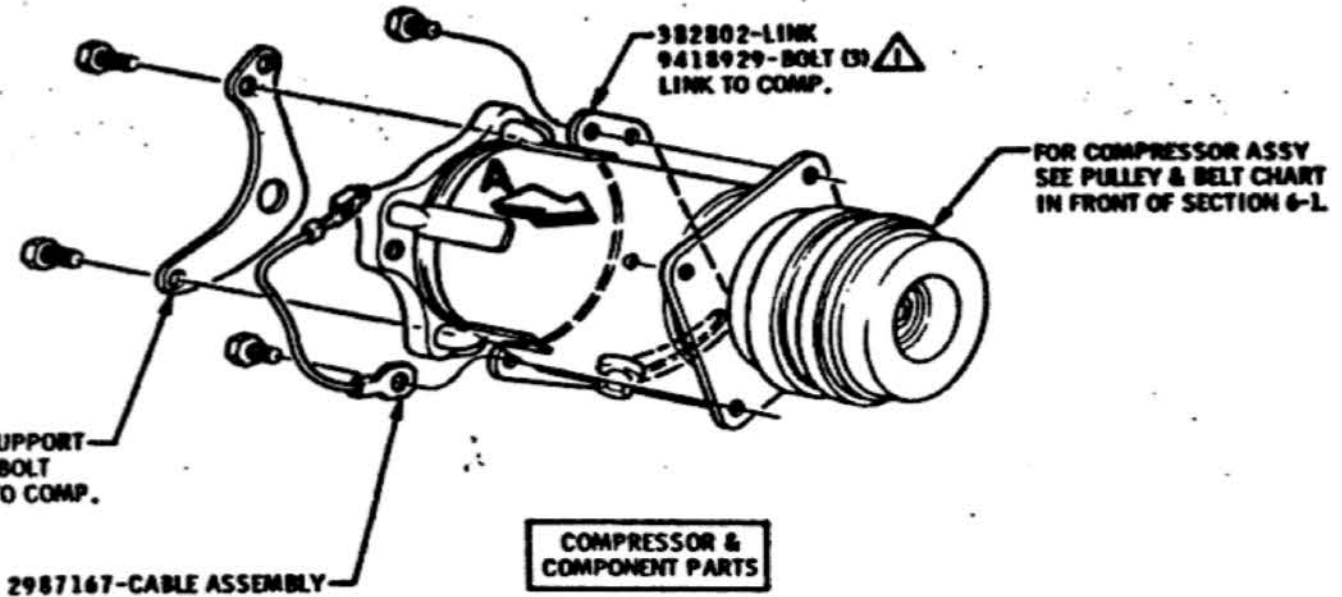


SHIELD TO COMPRESSOR
(E CAR ONLY)
VIEW A

- ▲ 10-15 LB. FT.
- ▲ 40-50 LB. FT.
- ▲ 25-35 LB. FT.
- ▲ 20-25 LB. FT.



INSTALLATION OF COMP. TO ENGINE



COMPRESSOR & COMPONENT PARTS

TITLE										AIR CONDITIONING COMPRESSOR AND BRACKETS							
DATE <i>FEBRUARY 13, 1968</i>										FIRST USED		1969		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE	
DR. BY <i>CUET 1967</i>														6-1		213	
CHECKED <i>MBarnhart</i>																	
10548 A TORQUE REVISED										REV. (DATE - 1968)		A 3560		SERIES		PART NO.	
										APR. 20, 1968		E 3560-1		A-E		401900-2	
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION



SECTION 6-2 L6 ENGINE DRESS

100	CHARTS
125	ENGINE DRESS-UP
210	AIR CONDITIONING
400	EXPORT DELETE HEATER PARTS

PART NUMBER	UPC CODE	PRODUCTION CODE	TRANSMISSION		SPECIAL ACCESSORIES	
			SYNCHROMESH	AUTOMATIC	C60 / Y72	L90 (EXPORT)
402869	6	VA	X			
402870	C60	VB	X		X	
402871	L90	VJ	X			X
403136	L90	(A) VL	X		X	X
402872	M31	VE		X		
402873	C60	VF		X	X	
402874	L90	VK		X		X
403137	L90	(B) VM		X	X	X

PRODUCTION CODE LETTER TAG
WILL BE APPLIED BY VENDOR

										TITLE CHART - ENGINE IDENTIFICATION									
										DATE <i>JAN. 2, 1969</i>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC. PAGE			
										DR BY <i>GALE GARY</i>		1969		OPERATION MANUAL		6-2 100			
										CHECKED <i>JAMES</i>		SERIES		PART NO.		40304			
										APPR. <i>B. G. R.</i>		A							
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK

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

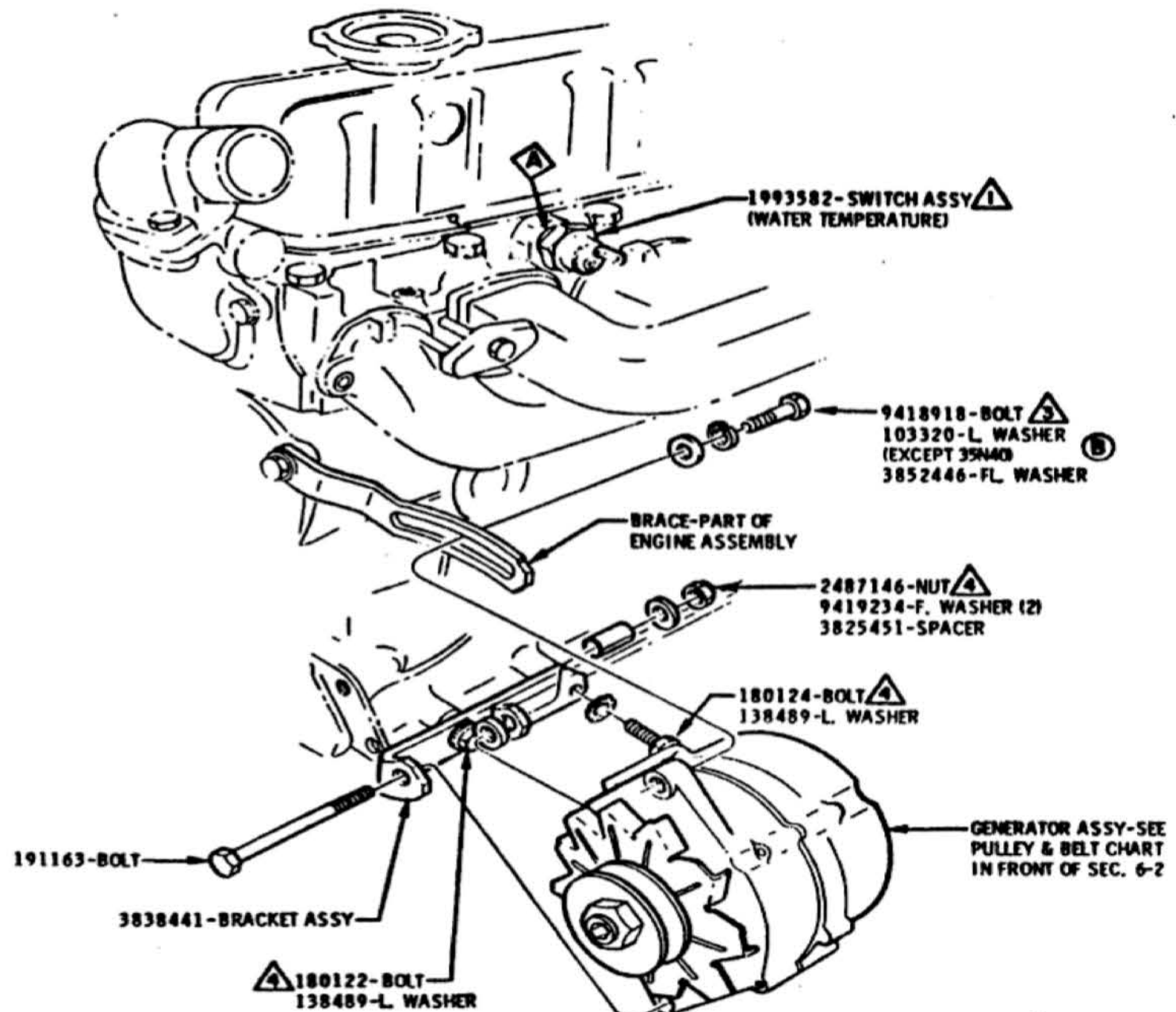
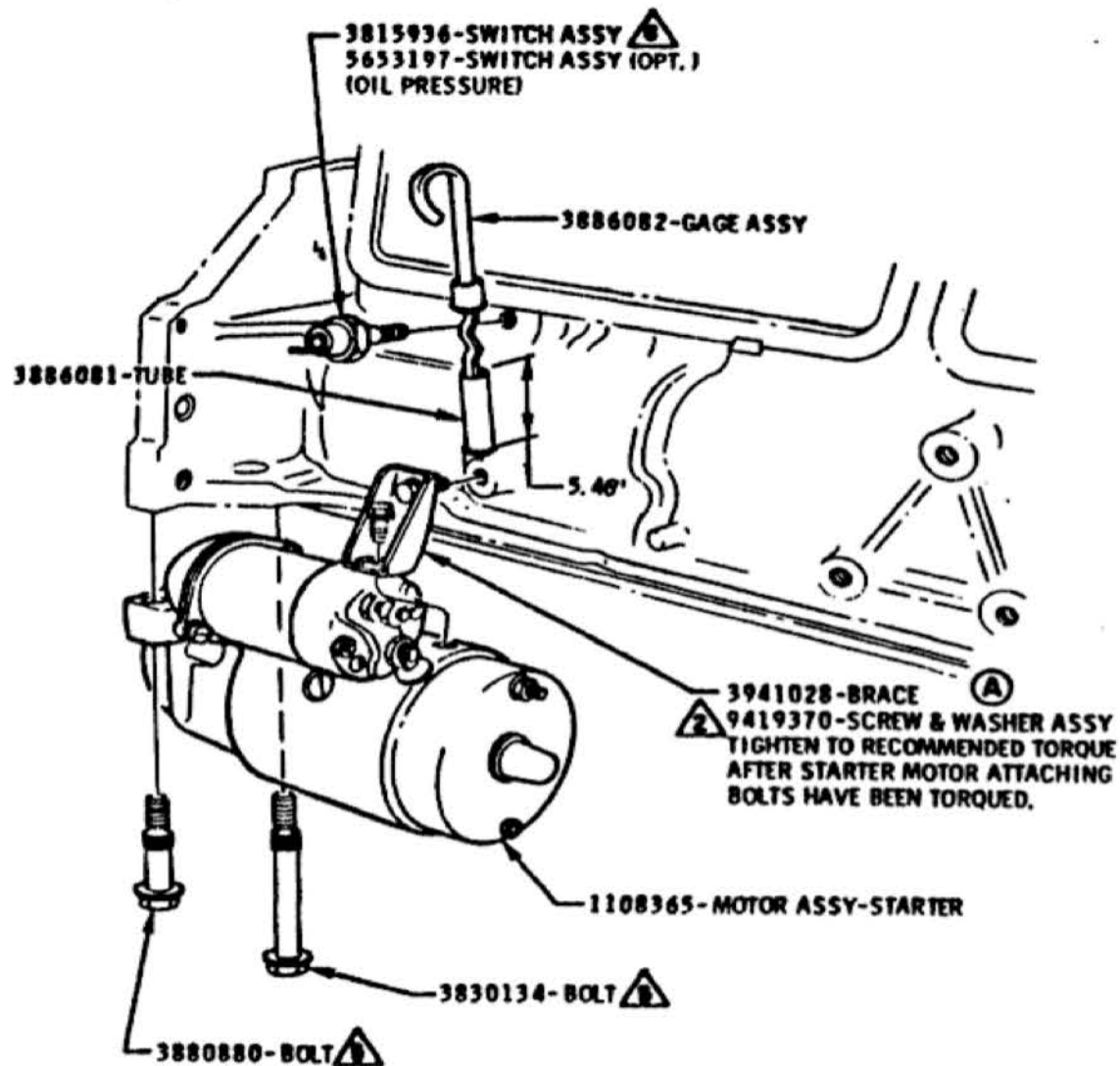
1. DOWNSHIFT SWITCH & CARPET INSTALLED.

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.

DATE	BY	REVISION	DR.	CK.	DATE	BY	REVISION	DR.	CK.	DATE	BY	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
																CHART - THROTTLE ADJUSTMENT	1969	6-2	119	A	403925	
																DATE <i>APRIL 10, 1968</i>						
																DR. BY <i>DALE COBY</i>						
																CHECKED <i>J. FITZES</i>						
																APPR. <i>R. H. HOOS 4/11/68</i>						

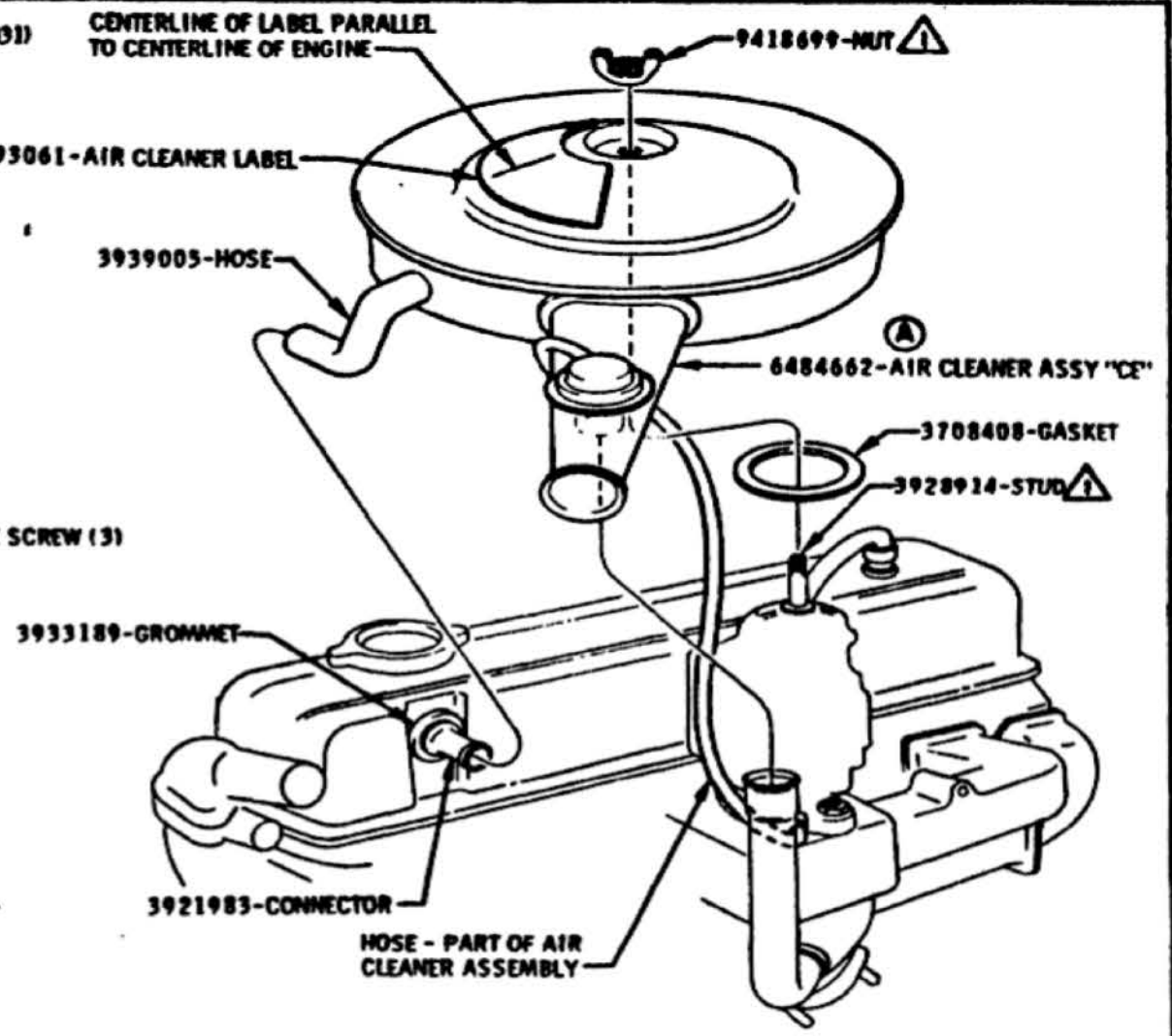
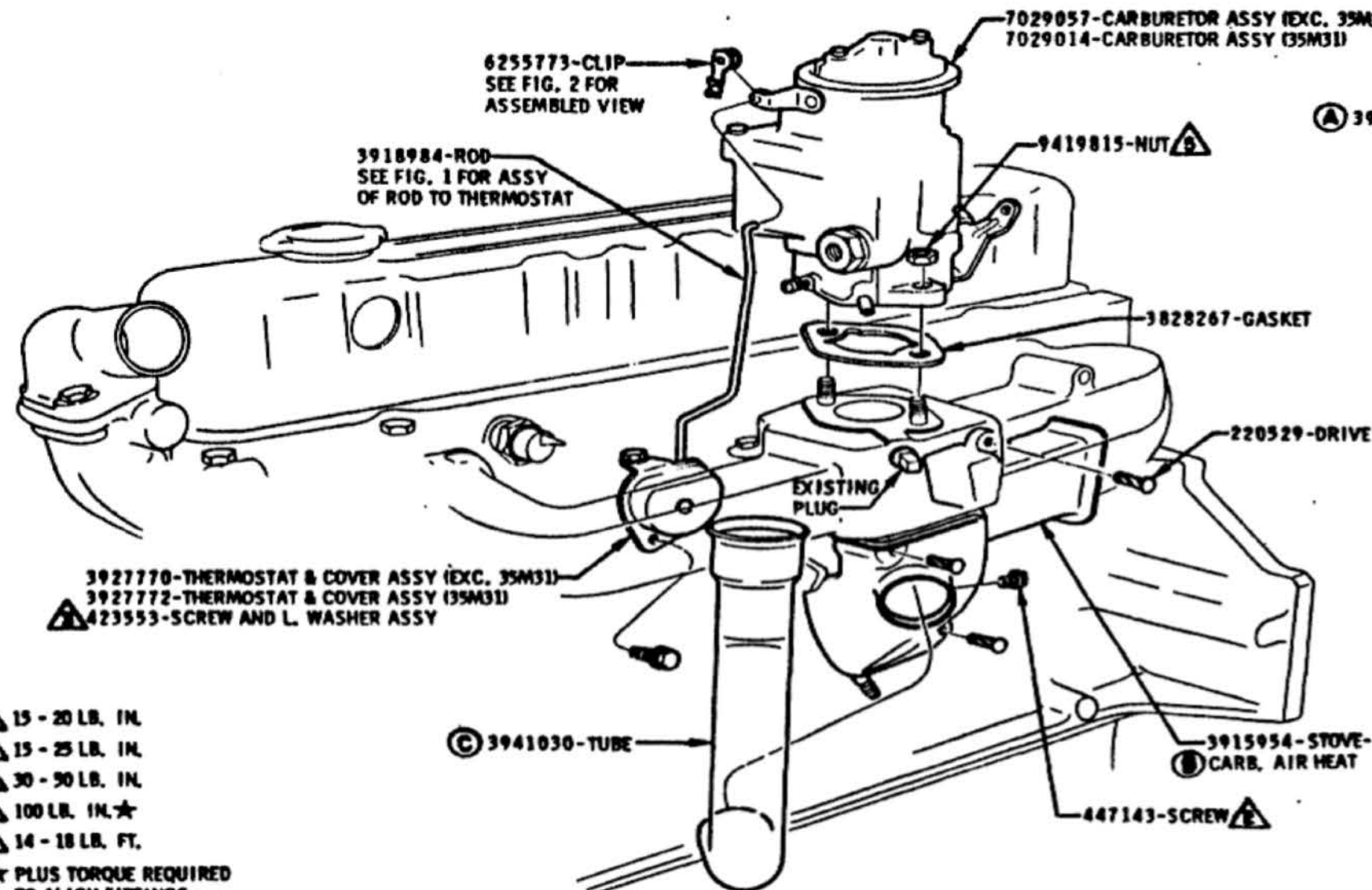


TYPICAL GENERATOR INSTALLATION

- 1 14-20 LB. FT.
- 2 15-20 LB. FT.
- 3 20-25 LB. FT.
- 4 25-35 LB. FT.
- 5 30-40 LB. FT.
- 6 100-125 LB. IN.

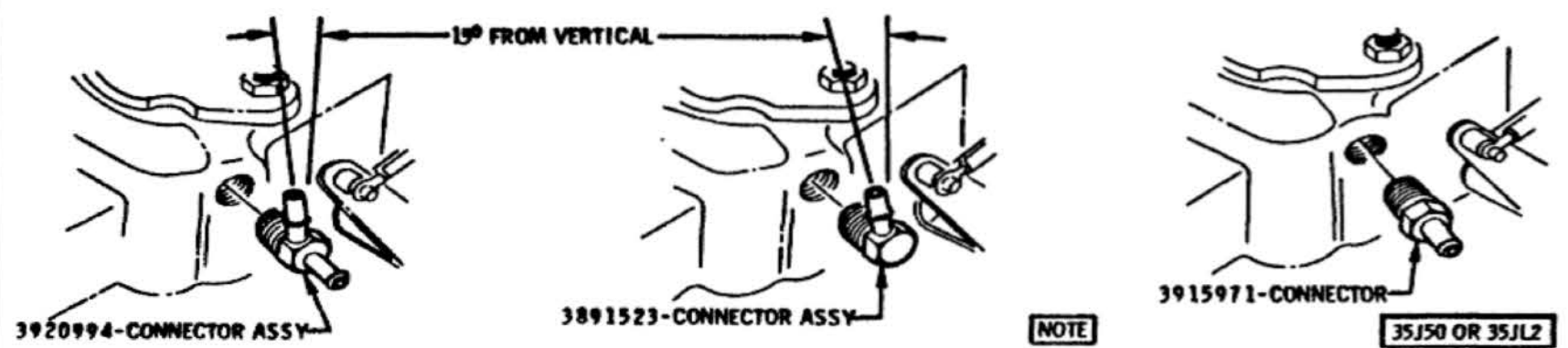
A APPLY SEALER 9985000 TO
AREAS INDICATED
PRIOR TO ASSEMBLY

DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DR	CK	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
															OIL PRESSURE & WATER TEMP. SWITCH, OIL DIP STICK, STARTER & GENERATOR	1969		6-2	125
					8-21-68	B	USAGE REVISED								CHECKED <i>[Signature]</i>	REF. 6-66, 671 678, 123	SERIES		
					2-2-68	A	HAS 3819213								APPR. <i>[Signature]</i>		A		
															APPR. <i>[Signature]</i> 11/5/68				401900



- ▲ 15 - 20 LB. IN.
 - ▲ 15 - 25 LB. IN.
 - ▲ 30 - 90 LB. IN.
 - ▲ 100 LB. IN. ★
 - ▲ 14 - 18 LB. FT.
- ★ PLUS TORQUE REQUIRED TO ALIGN FITTINGS

VACUUM FITTINGS



NOTE
▲ REMOVE EXISTING PLUG AND INSTALL THESE FITTINGS AS REQUIRED



FIGURE 1

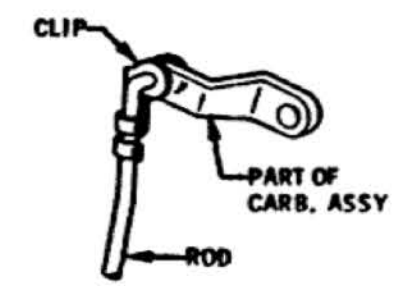


FIGURE 2

TITLE CARBURETOR, AIR CLEANER, HEAT STOVE, AIR PIPE AND VACUUM FITTINGS					DATE FEBRUARY 26, 1968		FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. PAGE 6-2 126	
DR. BY W.E. MASON					CHECKED [Signature]		REV. 6-11-68		SERIES A		PART NO. 401900	
6-12-68 C MMS 403002-TUBE					6-12-68 B MMS 40195-STOVE		5-20-68 A2 PART NUMBER ADDED					

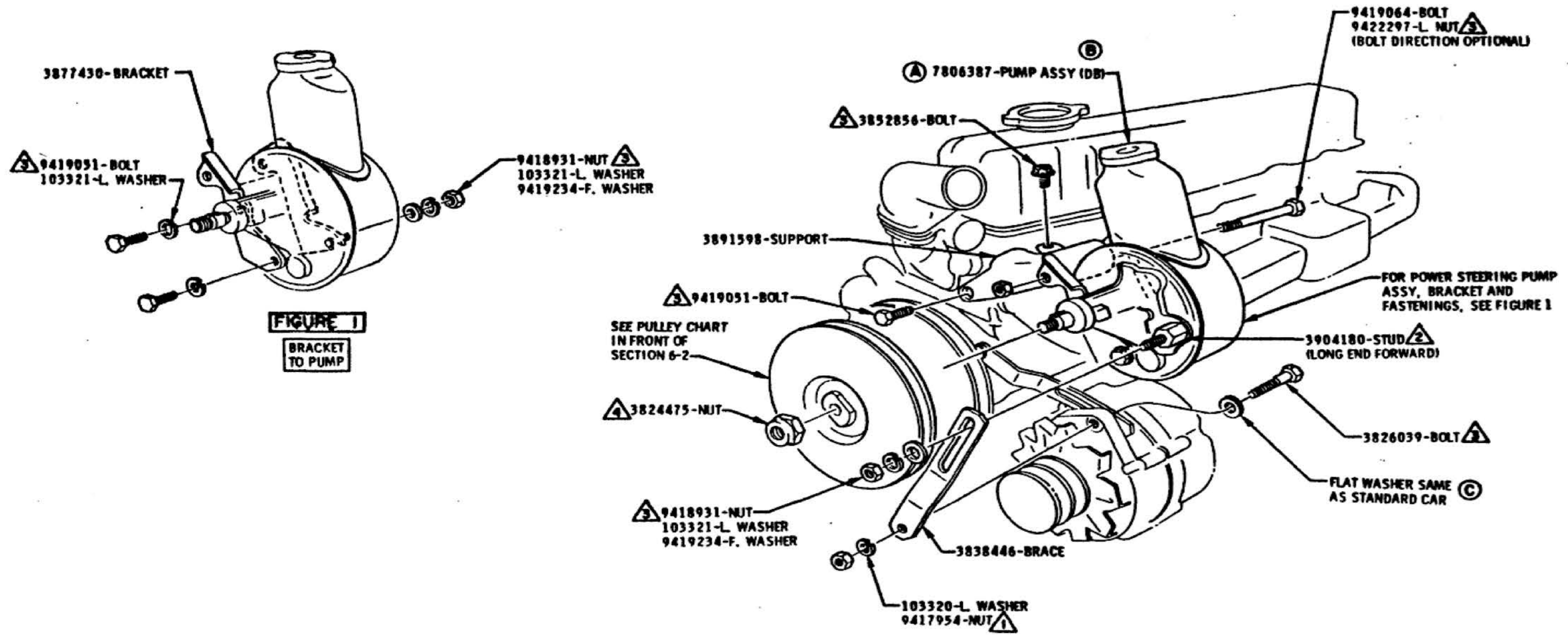


FIGURE 1
BRACKET TO PUMP

- 1 20 - 25 LB. FT.
- 2 20 - 30 LB. FT.
- 3 25 - 35 LB. FT.
- 4 55 - 70 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 SEC.	PAGE	PART NO.
															POWER STEERING PUMP & BRACKET	1969		6-2	129	401900
					8-21-68	C	NOTE ADDED								DATE JANUARY 19, 1968					
					5-27-68	B	CODE ADDED								DR. BY W.C. MASON					
					3-1-68	A	WAS 7800514								CHECKED <i>[Signature]</i>					
															APPR. <i>[Signature]</i> 1/19/68	REF. 35N40	SERIES A			



SECTION 7 TRANSMISSION

96	CHARTS
110	CLUTCH CONTROL AND SYNCHROMESH
128	SPEEDOMETER DRIVEN GEAR AND ADAPTER ASSEMBLY
135	AUTOMATIC TRANSMISSION AND SHIFT CONTROL
145	AUTOMATIC FLOOR SHIFT
149	MODULATOR AND FILLER PIPES
155	AUTOMATIC TRANSMISSION COOLER PIPES

DATE 6-17-68

MANUAL NO. 401900

SERIES A

4 SPEED FULLY SYNCHRONIZED (WIDE RATIO) M20 (CLOSE RATIO) M21 TRANSMISSION

AXLE RATIO	TIRE CODE *	SPEEDO DRIVEN GEAR			ADAPTER RATIO #
		TEETH	PART NO.	COLOR	
3.08 (40:13)	17, 48	22	3860345	GREEN	1.1320
	30, 33, 34, 35, 36, 38, 39	23	3860346	BLACK	1.2720
3.23 (42:13)	10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29	24	3860347	YELLOW	1.2720
	20, 21, 23, 24, 25, 26, 28, 29	22	3860345	GREEN	1.1320
3.42 (41:12)	11, 12, 17, 18, 48	23	3860346	BLACK	1.1320
	30, 33, 34, 35, 36, 38, 39	24	3860347	YELLOW	1.2720
3.91 (45:11)	10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29	25	3860348	ORANGE	1.2720
	30, 33, 34, 35	23	3860346	BLACK	NONE
4.33 (95:9)	17, 48	25	3860348	ORANGE	NONE
	34, 38, 39	22	3860345	GREEN	.8660
4.66 (42:9)	10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29	24	3860347	YELLOW	.8660
	30, 33, 34, 35	25	3860348	ORANGE	NONE
5.00 (45:9)	17, 48	25	3860348	ORANGE	.8660
	30, 33, 35	23	3860346	BLACK	.8660

DEALER INSTALLED
USE RIGHT ANGLE SPEEDOMETER DRIVE ADAPTERS ONLY

.7850 - ADAPTER 386338 (YELLOW)
.8660 - ADAPTER 386400 (BLUE)
1.1320 - ADAPTER 386401 (PINK)
1.2720 - ADAPTER 401539 (GREEN)

* SEE TIRE CHART 409920

3869912 - SPEEDO DRIVEN GEAR FITTING ASSEMBLY FOR 22, 23, 24, 25 TOOTH GEAR.
SPEEDO DRIVE GEAR 391500A (90 PITCH & TOOTH).

TITLE		CHART - SPEEDOMETER GEAR USAGE	
DATE	OCT. 15, 1968	FIRST USED	1969
DR. BY	K. LOVELL	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. 7 PAGE 81
CHECKED	W. L. WELLS	SERIES	A
APPR.	A. J. D. L. 1968	PART NO.	404647
4866:15 TIRE CODE ADDED		TC-9713	
912-69 B CODE 48 ADDED			
1/13/68 A 5.00 RATIO ADDED			

6 & 8 CYLINDER JETAWAY TRANSMISSION

AXLE RATIO	TIRE CODE *	SPEDO DRIVEN GEAR			ADAPTER RATIO
		TEETH	PART NO.	COLOR	
3.91 (42:11)	34, 34, 39	34	9774A13	LT. GREEN	.6944
	14, 21	35	9780387	ORANGE	.6944
	30, 33, 35	37	1359271	RED	.7692
	11, 12, 18, 48	38	1359272	BLUE	.7333
	34	42	1362049	GREEN	.8653
	20, 23, 24, 25, 26, 28, 29	43	1362196	PURPLE	.8653
	10, 13, 15, 16, 19, 22, 27	44	9780A70	DK. GRAY	.8653
	17	45	9775187	LT. BLUE	.8653
	20, 23, 25, 26, 29	34	9774A13	LT. GREEN	.6190
	10, 13, 14, 15, 16, 19, 22, 27	35	9780387	ORANGE	.6190
4.33 (36:9)	38	38	1359272	BLUE	.6944
	34, 34, 39	39	1359273	BROWN	.7222
	17	40	1362048	BLACK	.6944
	24	40	1362048	BLACK	.7222
	30, 33, 35	41	1362195	YELLOW	.7692
	21, 28	43	1362196	PURPLE	.7692
	11, 12, 18, 48	44	9780A70	DK. GRAY	.7692
	34, 34, 39	36	1359270	WHITE	.6190
	20, 21, 23, 24, 25, 28	37	1359271	RED	.6190
	11, 12, 16, 18, 19, 22, 27, 48	38	1359272	BLUE	.6190
4.66 (42:9)	30, 33, 35	40	1362048	BLACK	.6944
	26, 29, 38	41	1362195	YELLOW	.6944
	14	42	1362049	GREEN	.6944
	10, 13, 15	44	9780A70	DK. GRAY	.7222
	17	45	9775187	LT. BLUE	.7222
	34, 34, 39	39	1359273	BROWN	.6190
	20, 23, 24, 25, 26, 28, 29	40	1362048	BLACK	.6190
	11, 12, 16, 18, 19, 22, 27, 48	41	1362195	YELLOW	.6190
	17	42	1362049	GREEN	.6190
	30, 33, 35	43	1362196	PURPLE	.6944
5.00 (45:9)	38	44	9780A70	DK. GRAY	.6944
	10, 13, 14, 15, 21	45	9775187	LT. BLUE	.6944

* DEALER INSTALLED

* SEE TIRE CHART 409720

- .6190 - ADAPTER 54010 (ORANGE)
- .6944 - ADAPTER 535613 (GRAY)
- .7222 - ADAPTER 54018 (LT. BLUE)
- .7333 - ADAPTER 535614 (RED)
- .7692 - ADAPTER 535615 (YELLOW)
- .8653 - ADAPTER 535617 (BLUE)

396793 - SPEDO DRIVEN GEAR SLEEVE ASSEMBLY FOR 34, 35, 36, 37, 38, 39 AND 396794 FOR 40, 41, 42, 43, 44, 45 TOOTH GEAR.
SPEDO DRIVE GEAR 1371878 (28 PITCH 17 TOOTH).

TITLE		CHART - SPEEDOMETER GEAR USAGE		DATE	10.15.1969	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	7	PAGE	83
DR. BY		R. LOVELL		DATE	10.15.1969	REV.	TC-9713	SERIES	A	PART NO.	404647	
CHECKED		W.L. WEISS		DATE	10.15.1969	APP.						
APPROVED		H. J. GILMER		DATE								

8 CYLINDER 3 SPEED AUTOMATIC TRANSMISSION

AXLE RATIO	TIRE CODE *	SPEEDO DRIVEN GEAR			ADAPTER RATIO
		TEETH	PART NO.	COLOR	
2.56 (41:16)	30, 33, 34, 35, 36, 38, 39	34	977413	LT. GREEN	NONE
	10, 13, 14, 15, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29	35	978087	ORANGE	NONE
	11, 12, 16, 17, 18, 19, 48	36	1399270	WHITE	NONE
	30, 33, 35	36	1399270	WHITE	NONE
	34, 36, 38, 39	37	1399271	RED	NONE
	14, 16, 19, 20, 21, 23, 24, 25, 28	38	1399272	BLUE	NONE
2.78 (39:14)	10, 11, 12, 13, 15, 17, 18, 22, 26, 27, 29, 48	39	1399273	BROWN	NONE
	30, 33, 35	40	1362048	BLACK	NONE
	34, 36, 38, 39	41	1362195	YELLOW	NONE
	14, 16, 19, 20, 21, 23, 24, 25, 28	42	1362049	GREEN	NONE
	10, 11, 12, 13, 15, 18, 22, 26, 27, 29, 48	43	1362196	PURPLE	NONE
	17	44	9780470	DK. GRAY	NONE
3.08 (42:13)	30, 33, 35	42	1362049	GREEN	NONE
	34, 36, 38, 39	43	1362196	PURPLE	NONE
	14, 20, 21, 23, 24, 25, 26, 28, 29	44	9780470	DK. GRAY	NONE
	10, 11, 12, 13, 15, 16, 17, 18, 19, 22, 27, 48	45	9775187	LT. BLUE	NONE
	21, 26, 29	34	977413	LT. GREEN	.7333
	11, 12, 16, 18, 19, 48	35	978087	ORANGE	.7333
3.42 (41:12)	14	36	1399270	WHITE	.7912
	17	37	1399271	RED	.7892
	20, 23, 24, 25, 28	40	1362048	BLACK	.8653
	10, 13, 15, 22, 27	41	1362195	YELLOW	.8653
	30, 33, 34, 35, 36, 38, 39	45	9775187	LT. BLUE	NONE

* SEE TIRE CHART 489ZD

.7333 - ADAPTER 535614 (RED)
.7912 - ADAPTER 535615 (YELLOW)
.8653 - ADAPTER 535617 (BLUE)

977807 (M40), 996793 (M30) - SPEEDO DRIVEN
GEAR SLEEVE ASSEMBLY FOR 34, 35, 36, 37,
38, 39 AND 977806 (M40), 996794 (M30) FOR 40,
41, 42, 43, 44, 45 TOOTH GEAR.

SPEEDO DRIVE GEAR (28 PITCH 18 TOOTH).
M38 - 626037
M40 - 862313

SHEET 5

TITLE CHART - SPEEDOMETER GEAR USAGE														
DATE OCT. 15, 1968					FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 7	PAGE 84				
DR. BY GALE GOTT					CHECKED W.L.WEISS		SERIES A		PART NO. 404647					
APPR. H.J.B. J...					REF. TC-9719									
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.

8 CYLINDER 3 SPEED AUTOMATIC TRANSMISSION

AXLE RATIO	TIRE CODE *	SPEEDO DRIVEN GEAR			ADAPTER RATIO
		TEETH	PART NO.	COLOR	
3.91 (43:11)	17	34	977413	LT. GREEN	.6190
	21	34	977413	LT. GREEN	.7333
	14, 24, 29	37	1399271	RED	.6944
	34	37	1399271	RED	.7222
	20, 23, 24, 25, 28	39	1399273	BROWN	.7333
	10, 11, 12, 13, 15, 16, 18, 19, 22, 27, 28	40	1362048	BLACK	.7333
	34, 38, 39	40	1362048	BLACK	.7692
	30, 33, 35	44	9780470	DK. GRAY	.8653
	30, 33, 35	35	9780387	ORANGE	.6190
	10, 13, 14, 15, 16, 19, 22, 27	37	1399271	RED	.6190
	34, 38, 39	40	1362048	BLACK	.6944
	21, 26, 29	41	1362195	YELLOW	.6944
4.33 (39:9)	11, 12, 18, 48	42	1362049	GREEN	.6944
	34	42	1362049	GREEN	.7333
	20, 23, 24, 25, 28	45	9775187	LT. BLUE	.7692
	17	45	9775187	LT. BLUE	.7333
	20, 23, 24, 25, 26, 28, 29	39	1399273	BROWN	.6190
	10, 13, 14, 15, 16, 19, 22, 27	40	1362048	BLACK	.6190
	17	41	1362195	YELLOW	.6190
	34, 38, 39	43	1362196	PURPLE	.6944
	30, 33, 35	44	9780470	DK. GRAY	.7222
	21	44	9780470	DK. GRAY	.6944
	11, 12, 18, 48	45	9775187	LT. BLUE	.6944
	4.66 (42:9)	34	45	9775187	LT. BLUE
20, 21, 23, 24, 25, 26, 28, 29		42	1362049	GREEN	.6190
10, 11, 12, 13, 14, 15, 16, 18, 19, 22, 27, 28		43	1362196	PURPLE	.6190
17		44	9780470	DK. GRAY	.6190
34, 38, 39		41	1362195	YELLOW	.6190
20, 21, 23, 24, 25, 26, 28, 29		42	1362049	GREEN	.6190
10, 11, 12, 13, 14, 15, 16, 18, 19, 22, 27, 28		43	1362196	PURPLE	.6190
17		44	9780470	DK. GRAY	.6190
30, 33, 35		45	9775187	LT. BLUE	.6944
21		44	9780470	DK. GRAY	.6190
17		44	9780470	DK. GRAY	.6190
5.00 (45:9)		30, 33, 35	45	9775187	LT. BLUE

* DEALER INSTALLED

* SEE TIRE CHART 489721

- .6190 - ADAPTER 54010 (ORANGE)
- .6944 - ADAPTER 55613 (GRAY)
- .7222 - ADAPTER 54013 (LT. BLUE)
- .7333 - ADAPTER 535614 (RED)
- .7692 - ADAPTER 55615 (YELLOW)
- .8653 - ADAPTER 55617 (BLUE)

9780470 (MAD), 966795 (M8B) - SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY FOR 34, 35, 36, 37, 38, 39 AND 97806 (MAD) 966794 (M8B) FOR 40, 41, 42, 43, 44, 45 TOOTH GEAR.

SPEEDO DRIVE GEAR (28 PITCH 1/8 TOOTH)

M38 - 626037
M40 - 862313

TITLE		CHART - SPEEDOMETER GEAR USAGE	
DATE	OCT. 15, 1968	FIRST USED	1969
DR. BY	K. LOVELL	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. 7 PAGE 85
CHECKED	W.L. WELLS	SERIES	A
APPR.	N. J. B. 1/24/68	PART NO.	404647
REV.	TC-9713		

REVISION	DR.	CK.	DATE	SYM.
1				
2				
3				
4				
5				

8 CYLINDER 3 SPEED AUTOMATIC TRANSMISSION

SPEEDO DRIVE GEAR (28 PITCH) 18 TOOTH
M38 - 626037
M40 - 862313

AXLE RATIO	SIZE	REAR TIRES				SPEEDO DRIVEN GEAR				SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY PART NO.				SPEEDO DRIVEN GEAR ADAPTER RATIO				% ERROR	
		45 MPH	60 MPH	45 MPH	60 MPH	TEETH	PART NO.	COLOR	M40	M38	ADAPTER RATIO	45 MPH	60 MPH	DRIVE RATIO	45 MPH	60 MPH			
2.56 (M1-10)	(STD. OR P26)	7.75 - 14 (E)	782.0	777.3	33.39	33.19	9780387	ORANGE	397807	396793	NONE	2.0038	1.9918	1.9444	+ 3.05	+ 2.63			
		8.25 - 14 (E)	764.4	759.9	32.64	32.45	9780387	ORANGE	397807	396793	NONE	1.9587	1.9472	1.9444	+ 0.73	+ 0.14			
		8.55 - 14 (E)	738.7	731.7	31.54	31.24	9774413	LT. GREEN	397807	396793	NONE	1.8972	1.8747	1.8888	+ 0.21	- 0.73			
	(H)	7.75 - 14 (E)	790.2	786.2	33.74	33.57	9780387	ORANGE	397807	396793	NONE	2.0246	2.0146	2.0000	+ 1.24	+ 0.73			
		8.25 - 14 (E)	778.8	774.9	33.26	33.09	9780387	ORANGE	397807	396793	NONE	1.9956	1.9856	1.9444	+ 2.63	+ 2.17			
		8.55 - 14 (E)	769.1	766.7	32.84	32.74	9780387	ORANGE	397807	396793	NONE	1.9702	1.9646	1.9444	+ 1.35	+ 1.04			
	(H)	(P26)	790.3	786.5	33.75	33.59	1359270	WHITE	397807	396793	NONE	2.0251	2.0154	2.0000	+ 1.25	+ 0.77			
		G78 - 14	765.3	762.3	32.68	32.55	9780357	ORANGE	397807	396793	NONE	1.9610	1.9533	1.9444	+ 0.65	+ 0.46			
		H78 - 14	751.7	748.1	32.10	31.95	9774413	LT. GREEN	397807	396793	NONE	1.9262	1.9170	1.8888	+ 1.97	+ 1.48			
	(H)	(P26)	798.2	795.5	34.08	33.97	1359270	WHITE	397807	396793	NONE	2.0453	2.0364	2.0000	+ 2.25	+ 1.92			
		G70 - 14 (E)	782.0	778.6	33.39	33.25	9780387	ORANGE	397807	396793	NONE	2.0232	1.9951	1.9444	+ 3.05	+ 2.60			
		(P26)	773.7	778.3	33.04	33.23	9780387	ORANGE	397807	396793	NONE	1.9425	1.9443	1.9444	+ 1.92	+ 2.56			
(H)	(P26)	764.3	760.2	32.64	32.46	9780387	ORANGE	397807	360793	NONE	1.9585	1.9480	1.9444	+ 0.72	+ 0.18				
	7.75 - 14 (D)	742.2	745.3	31.69	31.83	9774413	LT. GREEN	397807	396793	NONE	1.9018	1.9078	1.8888	+ 0.62	+ 1.10				
	(P26)	773.7	778.3	33.04	33.23	9780387	ORANGE	397807	396793	NONE	1.9425	1.9443	1.9444	+ 1.92	+ 2.56				
2.78 (G9-10)	(STD. OR P26)	782.0	777.3	36.30	36.08	1359273	BROWN	397807	396793	NONE	2.1784	2.1653	2.1666	+ 0.54	- 0.06				
	7.75 - 14 (E)	764.4	759.9	35.48	35.28	1359272	BLUE	397807	396793	NONE	2.1293	2.1165	2.1111	+ 0.66	+ 0.27				
	8.25 - 14 (E)	738.7	731.7	34.29	33.97	1359270	WHITE	397807	396793	NONE	2.0578	2.0383	2.0000	+ 2.89	+ 1.91				
(H)	7.75 - 14 (E)	790.2	786.2	36.68	36.50	1359273	BROWN	397807	396793	NONE	2.2012	2.1901	2.1666	+ 1.59	+ 1.06				
	8.25 - 14 (E)	774.9	774.9	36.15	35.97	1359272	BLUE	397807	396793	NONE	2.1695	2.1566	2.1111	+ 2.76	+ 2.25				
	8.55 - 14 (E)	769.1	766.7	35.70	35.59	1359272	BLUE	397807	396793	NONE	2.1424	2.1358	2.1111	+ 1.43	+ 1.16				
(H)	(P26)	790.3	786.5	36.69	36.51	1359273	BROWN	397807	396793	NONE	2.2015	2.1909	2.1666	+ 1.60	+ 1.12				
	G78 - 14	765.3	762.3	35.55	35.39	1359272	BLUE	397807	396793	NONE	2.1319	2.1275	2.1111	+ 0.98	+ 0.58				
	H78 - 14	751.7	748.1	34.90	34.73	1359271	RED	397807	396793	NONE	2.0540	2.0829	2.0555	+ 1.87	+ 1.39				
(H)	(P26)	798.2	795.5	37.05	36.93	1359273	BROWN	397807	396793	NONE	2.2255	2.2160	2.1666	+ 2.62	+ 2.27				
	G70 - 14 (E)	782.0	778.6	36.30	36.14	1359273	BROWN	397807	396793	NONE	2.1784	2.1689	2.1666	+ 0.54	+ 0.10				
	(P26)	773.7	778.3	35.92	36.13	1359272	BLUE	397807	396793	NONE	2.1291	2.1172	2.1111	+ 0.85	+ 0.31				
(H)	7.75 - 14 (D)	764.3	760.2	34.45	34.60	1359271	RED	397807	396793	NONE	2.0675	2.0761	2.0555	+ 0.58	+ 1.00				
	8.25 - 14 (D)	742.2	745.3	34.45	34.60	1359271	RED	397807	396793	NONE	2.0675	2.0761	2.0555	+ 0.58	+ 1.00				
	8.55 - 14 (D)	728.0	727.3	34.10	34.86	1359272	PURPLE	397807	396793	NONE	2.1593	2.1681	2.1111	+ 2.09	+ 2.70				
(H)	(STD. OR P26)	764.4	759.9	39.19	38.96	1362049	GREEN	397806	396794	NONE	2.3519	2.3381	2.3333	+ 0.78	+ 0.22				
	7.75 - 14 (H)	738.7	731.7	37.88	37.52	1362048	BLACK	397806	396794	NONE	2.2729	2.2513	2.2222	+ 1.31	+ 0.78				
	8.55 - 14 (H)	790.2	786.2	40.52	40.31	1362196	PURPLE	397806	396794	NONE	2.4313	2.4190	2.3888	+ 1.77	+ 1.26				
(H)	7.75 - 14 (E)	778.8	774.9	39.93	39.73	1362049	GREEN	397806	396794	NONE	2.3942	2.3843	2.3333	+ 2.69	+ 2.18				
	8.25 - 14 (E)	769.1	766.7	39.44	39.31	1362049	GREEN	397806	396794	NONE	2.3644	2.3590	2.3333	+ 1.41	+ 1.10				
	(P26)	790.3	786.5	40.52	40.33	1362196	PURPLE	397806	396794	NONE	2.4316	2.4199	2.3888	+ 1.79	+ 1.36				
(H)	G78 - 14	765.3	762.3	39.24	39.09	1362049	GREEN	397806	396794	NONE	2.3547	2.3455	2.3333	+ 0.91	+ 0.52				
	H78 - 14	751.7	748.1	38.54	38.36	1362195	YELLOW	397806	396794	NONE	2.3129	2.3018	2.2777	+ 1.54	+ 1.05				
	(P26)	798.2	795.5	40.93	40.79	9780470	DR. GRAY	397806	396794	NONE	2.4599	2.4476	2.4444	+ 0.47	+ 0.13				
(H)	G70 - 14	782.0	778.6	40.10	39.92	1362196	PURPLE	397806	396794	NONE	2.4241	2.3956	2.3926	+ 0.72	+ 0.28				
	(P26)	773.7	778.3	36.67	36.91	1362049	GREEN	397806	396794	NONE	2.3406	2.3476	2.3333	+ 2.02	+ 2.63				
	8.25 - 14 (D)	764.3	760.2	36.19	36.98	1362049	GREEN	397806	396794	NONE	2.3516	2.3390	2.3333	+ 0.72	+ 0.24				
(H)	7.75 - 14 (D)	742.2	745.3	34.06	34.22	1362195	YELLOW	397806	396794	NONE	2.2836	2.2932	2.2777	+ 0.29	+ 0.67				
	8.25 - 14 (D)	728.0	727.3	34.10	34.86	1362049	GREEN	397806	396794	NONE	2.3519	2.3476	2.3333	+ 0.78	+ 0.22				
	8.55 - 14 (D)	714.4	711.7	33.16	33.33	1362049	GREEN	397806	396794	NONE	2.2855	2.2639	2.2333	+ 2.28	+ 1.31				
(H)	7.75 - 14 (H)	738.7	731.7	39.77	39.39	1362049	GREEN	397806	396794	NONE	2.3865	2.3639	2.3333	+ 2.28	+ 1.31				
	8.55 - 14 (H)	790.2	786.2	42.54	42.33	9775187	LT. BLUE	397806	396794	NONE	2.5529	2.5400	2.5000	+ 2.11	+ 1.60				
	G70 - 14 (H)	778.8	774.9	41.93	41.72	9775187	LT. BLUE	397806	396794	NONE	2.5161	2.5055	2.5000	+ 0.64	+ 0.14				
(H)	G78 - 14	769.1	766.7	41.41	41.28	9780470	DR. GRAY	397806	396794	NONE	2.4847	2.4770	2.4444	+ 1.65	+ 1.33				
	(P26)	790.3	786.5	42.55	42.35	9775187	LT. BLUE	397806	396794	NONE	2.5532	2.5410	2.5000	+ 2.13	+ 1.64				
	G78 - 14	765.3	762.5	41.20	41.04	9780470	DR. GRAY	397806	396794	NONE	2.4775	2.4628	2.4444	+ 1.14	+ 0.75				
(H)	H78 - 14	751.7	748.1	40.47	40.28	1362196	PURPLE	397806	396794	NONE	2.4285	2.4169	2.3888	+ 1.66	+ 1.17				
	(P26)	798.2	795.5	42.98	42.83	9775187	LT. BLUE	397806	396794	NONE	2.5788	2.5700	2.5000	+ 3.15	+ 2.80				
	G70 - 14 (E)	782.0	778.6	42.10	41.92	9775187	LT. BLUE	397806	396794	NONE	2.5264	2.5154	2.5000	+ 1.05	+ 0.61				
(H)	(P26)	773.7	778.3	41.66	41.90	9780470	DR. GRAY	397806	396794	NONE	2.4996	2.5145	2.4444	+ 2.25	+ 0.47				
	7.75 - 14 (D)	764.3	760.2	41.15	40.93	9780470	DR. GRAY	397806	396794	NONE	2.4472	2.4596	2.4444	+ 1.01	+ 0.47				
	8.55 - 14 (D)	742.2	745.3	39.96	40.13	1362196	PURPLE	397806	396794	NONE	2.3978	2.4072	2.3888	+ 0.37	+ 0.75				

REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE.
DATA FOR FT0-14 TIRE APPLIES TO 35 PLUS TIRE.
DATA FOR 7.75-14 & 7.75-14 AND 8.55-14 APPLIES TO STD. & EXPORT TIRES.

1.2020 - ADAPTER 9775187 (B, ACK & WH) (F)

REVISION		DATE		SYM		BY		CHK		DATE		SYM		BY		CHK		DATE		SYM		BY		CHK	
1.2020		1.2020		ADAPTER		9775187		(B, ACK & WH)																	

DATE	SYM	REVISION	DATE	SYM	REVISION	DATE	SYM	REVISION
1.2020		ADAPTER	1.2020		ADAPTER	1.2020		ADAPTER

TITLE	CHART - SPEEDOMETER GEAR USAGE	DATE	JUNE 3, 1968
CHECKED BY	B. B. HOLT	DATE	7.2.68
APPROVED BY	J. J. J. J.	DATE	

FIRST USED	1969	MANUAL SEC.	7	PAGE	86
OLDSMOBILE PRODUCT INFORMATION MANUAL					
SERIES	A	PART NO.	403107		

4 SPEED FULLY SYNCHRONIZED TRANSMISSION (WIDE RATIO) M20 (CLOSE RATIO) M21

AXLE RATIO	TIRE CODE *	SPEEDOMETER DRIVEN GEAR			ADAPTER RATIO #
		TEETH	PART NO.	COLOR	
3.07 (46:10)	17, 22, 27	22	3860345	GREEN	L 1320
	20, 23, 25, 28, 30, 33, 34, 35, 36, 38, 39	23	3860346	BLACK	L 2720
3.31 (46:13)	10, 11, 12, 13, 14, 15, 16, 18, 19, 21, 24, 28, 29	24	3860347	YELLOW	L 2720
	30, 33, 34, 35, 36, 38, 39	22	3860345	GREEN	L 1320
3.55 (39:11)	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 24	23	3860346	BLACK	L 1320
	22, 27	24	3860347	YELLOW	L 1320
3.73 (45:11)	20, 23, 25, 28, 28, 29	25	3860348	ORANGE	L 2720
	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 27	22	3860345	GREEN	NONE
3.73 (45:11)	30, 33, 35	23	3860346	BLACK	L 1320
	20, 21, 23, 24, 25, 26, 28, 29, 34, 36, 38, 39	24	3860347	YELLOW	L 1320
3.73 (45:11)	20, 23, 24, 25, 28, 30, 33, 34, 35, 36, 38, 39	22	3860345	GREEN	NONE
	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 27	23	3860346	BLACK	NONE
	26, 29	25	3860348	ORANGE	L 1320

USE RIGHT ANGLE SPEEDOMETER DRIVE ADAPTERS ONLY. * SEE TIRE CHART 402920

3869912 - SPEEDO. DRIVEN GEAR FITTING ASSEMBLY FOR 22, 23, 24, 25 TOOTH GEAR. L 1320 - ADAPTER 39543 (NO COLOR)
L 2720 - ADAPTER 40159 (GREEN)

SPEEDO DRIVE GEAR 391500A (30 PITCH 8 TOOTH).

CHART FOR GROUP 96C
CANADIAN BUILT F-85 MODELS

TITLE										CHART - SPEEDOMETER GEAR USAGE									
DATE					SEPT. 29, 1968					FIRST USED					1969				
DR. BY					K. LOVELL					OLDSMOBILE PRODUCT INFORMATION MANUAL					MANUAL SEC. PAGE				
															7 94				
A-968 B					LINE ADDED					CHECKED					W.L. WELLS				
A-263 P10					TIRE CODES ADDED					APPR.					H. J. G. N. 1/68				
DATE					SYN					REVISION					DR. CK.				
DATE					SYN					REVISION					DR. CK.				
DATE					SYN					REVISION					DR. CK.				
DATE					SYN					REVISION					DR. CK.				

SERIES A PART NO. 404723

6 & 8 CYLINDER JETAWAY TRANSMISSION

AXLE RATIO	TIRE CODE *	SPEEDO DRIVEN GEAR			ADAPTER RATIO
		TEETH	PART NO.	COLOR	
2.56 (41:16)	(A) 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 27	34	9774413	LT. GREEN	NONE
	(A) 34, 36, 38, 39	36	1359270	WHITE	1.1250
	(A) 20, 21, 23, 24, 25, 26, 28, 29	37	1359271	RED	1.1250
	(A) 30, 33, 35	38	1359272	BLUE	1.2020
	(A) 30, 33, 34, 35, 36, 38, 39	34	9774413	LT. GREEN	NONE
2.73 (41:15)	(A) 20, 21, 23, 24, 25, 26, 28, 29	35	9780387	ORANGE	NONE
	(A) 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 27	36	1359270	WHITE	NONE
	(A) 30, 33, 34, 35, 36, 39	38	1359272	BLUE	NONE
	(A) 20, 23, 24, 25, 26, 28, 29, 38	39	1359273	BROWN	NONE
	(A) 10, 11, 12, 13, 14, 15, 16, 18, 19, 21	40	1362048	BLACK	NONE
3.07 (43:14)	(A) 17, 22, 27	41	1362195	YELLOW	NONE
	(A) 30, 33, 34, 35, 36, 39	41	1362195	YELLOW	NONE
	(A) 20, 23, 24, 25, 26, 28, 29, 38	42	1362049	GREEN	NONE
	(A) 10, 13, 14, 15, 16, 19, 21	43	1362196	PURPLE	NONE
	(A) 11, 12, 17, 18, 22, 27	44	9780470	DK. GRAY	NONE
3.31 (43:13)	(A) 10, 11, 12, 13, 14, 15, 16, 18, 19	34	9774413	LT. GREEN	.7333
	(A) 17	35	9780387	ORANGE	.7333
	(B) 22, 27	37	1359271	RED	NONE
	(A) 30, 33, 34, 35, 36, 38, 39	44	9780470	DK. GRAY	NONE
	(A) 20, 21, 23, 24, 25, 26, 28, 29	45	9775187	LT. BLUE	NONE
3.55 (49:11)	(A) 30, 33, 34, 35, 36, 38, 39	34	9774413	LT. GREEN	.7333
	(A) 14, 20, 21, 23, 24, 25, 26, 28, 29	35	9780387	ORANGE	.7333
	(A) 10, 11, 12, 13, 15, 16, 17, 18, 19, 22, 27	36	1359270	WHITE	.7333

* SEE TIRE CHART 40920

96793 - SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY FOR 34, 35, 36, 37, 38, 39 AND 96794 FOR 40, 41, 42, 43, 44, 45 TOOTH GEAR.

.7333 - ADAPTER 535614 (RED)
1.1250 - ADAPTER 540674 (NONE)
1.2020 - ADAPTER 975739 (BLACK & WHITE)

SPEEDO DRIVE GEAR 1371878 (28 PITCH 17 TOOTH).

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

SHEET 3

TITLE		CHART - SPEEDOMETER GEAR USAGE	
DATE	OCT. 3, 1968	FIRST USED	1969
DR BY	GALE GRAY	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. PAGE
CHECKED	W.L. WEISS	7	95
APPR.	A. J. K. [Signature]	SERIES	A
		PART NO.	404723
		REF.	TC-9715

8 CYLINDER 3 SPEED AUTOMATIC TRANSMISSION

AXLE RATIO	TIRE CODE *	SPEEDO DRIVEN GEAR			ADAPTER RATIO
		TEETH	PART NO.	COLOR	
2.56 (41:16)	(A) 30, 33, 34, 35, 36, 38, 39	34	9774413	LT. GREEN	NONE
	(A) 10, 13, 14, 15, 20, 21, 23, 24, 25, 26, 28, 29	35	9780387	ORANGE	NONE
	(A) 11, 12, 14, 17, 18, 19, 22, 27	36	1359270	WHITE	NONE
	(A) 30, 33, 34, 35, 36, 38, 39	36	1359270	WHITE	NONE
2.73 (41:15)	(A) 20, 21, 23, 24, 25, 26, 28, 29	37	1359271	RED	NONE
	(A) 10, 11, 12, 13, 14, 15, 16, 18, 19, 22, 27	38	1359272	BLUE	NONE
	(A) 17	39	1359273	BROWN	NONE
	(A) 30, 33, 35	40	1362048	BLACK	NONE
3.07 (42:16)	(A) 34, 36, 38, 39	41	1362195	YELLOW	NONE
	(A) 10, 13, 14, 15, 16, 19, 20, 21, 23, 24, 25, 26, 28, 29	42	1362049	GREEN	NONE
	(A) 11, 12, 17, 18, 22, 27	43	1362196	PURPLE	NONE
	(B) 22, 27	34	9774413	LT. GREEN	.7222
3.31 (42:13)	(A) 17	36	1359270	WHITE	.7692
	(A) 11, 12, 18	40	1362048	BLACK	.8653
	(A) 30, 33, 35	43	1362196	PURPLE	NONE
	(A) 34, 36, 38, 39	44	9780470	DK. GRAY	NONE
3.55 (41:11)	(A) 10, 13, 14, 15, 16, 19, 20, 21, 23, 24, 25, 26, 28, 29	45	9775187	LT. BLUE	NONE
	(A) 30, 33, 34, 35	34	9774413	LT. GREEN	.7333
	(A) 36, 38, 39	34	9774413	LT. GREEN	.7222
	(A) 20, 21, 23, 24, 25, 28	35	9780387	ORANGE	.7333
3.73 (41:11)	(A) 14, 16, 19, 26, 29	35	9780387	ORANGE	.7222
	(A) 10, 11, 12, 13, 15, 18	36	1359270	WHITE	.7333
	(A) 17	36	1359270	WHITE	.7222
	(B) 22, 27	39	1359273	BROWN	NONE
3.73 (41:11)	(A) 30, 33, 34, 35	35	9780387	ORANGE	.7222
	(A) 20, 21, 23, 24, 25, 26, 28, 29, 34, 38, 39	36	1359270	WHITE	.7222
	(A) 10, 13, 14, 15, 16, 18, 19	37	1359271	RED	.7222
	(A) 17, 22, 27	38	1359272	BLUE	.7222
	(A) 11, 12	38	1359272	BLUE	.7333

* SEE TIRE CHART 403970

.7222 - ADAPTER 54013 (LT. BLUE)
.7333 - ADAPTER 53514 (RED)
.7692 - ADAPTER 53515 (YELLOW)
.8653 - ADAPTER 53517 (BLUE)

997807 (M40), 996795 (M30) - SPEEDO DRIVEN GEAR
SLEEVE ASSEMBLY FOR 34, 35, 36, 37, 38, 39 AND
997806 (M40), 996794 (M30) FOR 41, 42, 43, 44, 45
TOOTH GEAR.

SPEEDO DRIVE GEAR (28 PITCH 1/8 TOOTH)
M38 - 620037
M40 - 862313

CHART FOR GROUP 96C
CANADIAN BUILT F-85 MODELS

TITLE CHART - SPEEDOMETER GEAR USAGE		DATE OCT. 3, 1968	FIRST USED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. 7	PAGE 96
DR. BY GARE GARY	CHECKED W.L. WELSH	APPR. H.J. B. 1/2/69	REF. TC-9715	SERIES A	PART NO. 404723	
4969 B LINE ADDED	4969 A TIRE CODE ADDED					

AXLE RATIO	SIZE	REAR TIRES				SPEEDO DRIVEN GEAR				SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY PART NO.	ADAPTER RATIO	DESIRED RATIO			% ERROR			
		45 MPH		60 MPH		TEETH	PART NO.	COLOR	DRIVE RATIO			45 MPH	60 MPH	45 MPH	60 MPH			
		45 MPH	60 MPH	45 MPH	60 MPH													
3.55 (99.11)	(STD. OR P26)																	
	7.75 - 14	782.0	771.3	46.20	45.93	34	9774413	LT. GREEN	396793	.7333	2.7725	2.7558	2.0000	+1.65	+1.04			
	8.25 - 14	764.4	759.9	45.16	44.90	45	9775187	LT. BLUE	396794	NONE	2.7101	2.6941	2.6470	+2.38	+1.78			
	8.55 - 14	738.7	731.7	43.65	43.23	44	9780470	DK. GRAY	396794	NONE	2.6190	2.5942	2.5882	+1.18	+0.23			
	F70 - 14 MM	790.2	786.2	46.69	46.45	34	9774413	LT. GREEN	396793	.7333	2.8016	2.7874	2.0000	+2.72	+2.20			
	G78 - 14	769.1	766.7	45.44	45.30	45	9775187	LT. BLUE	396794	NONE	2.7268	2.7183	2.6470	+3.01	+2.69			
	(P80)																	
	F78 - 14	790.3	786.5	46.69	46.47	34	9774413	LT. GREEN	396793	.7333	2.8019	2.7885	2.0000	+2.73	+2.24			
	G78 - 14	765.3	762.3	45.22	45.04	45	9775187	LT. BLUE	396794	NONE	2.7133	2.7027	2.6470	+2.50	+2.10			
	H78 - 14	751.7	748.1	44.41	44.20	44	9780470	DK. GRAY	396794	NONE	2.6651	2.6523	2.5882	+2.97	+2.47			
	(P81)																	
	F70 - 14	798.2	795.5	47.16	47.00	35	9780887	ORANGE	396793	.7333	2.8299	2.8204	2.0588	+0.79	+0.45			
(P99-4 PLY)																		

96C
F-85 MODELS

ART - SPEEDOMETER GEAR USAGE

FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
1969		7	97
SERIES	PART NO.		
A	403312		

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

8 CYLINDER 3 SPEED AUTOMATIC TRANSMISSION
5 SPEEDOMETER DRIVE GEAR (26 PITCH) 1A TOOTH
M38 - 6260037
M40 - 802313

AXLE RATIO	SIZE	REAR TIRES		MPH		TEETH	PART NO.	COLOR	SPEEDOMETER DRIVE GEAR ASSEMBLY		ADAPTER RATIO	DESIRED RATIO		DRIVE RATIO	% ERROR	
		45 MPH	60 MPH	45 MPH	60 MPH				M40	M38		45 MPH	60 MPH		45 MPH	60 MPH
2.56 (4L:1B)	(STD. OR P26)	7.75 - M	782.0	777.3	33.39	33.19	9780387	ORANGE	397807	396793	NONE	2.028	1.9918	1.9444	+ 1.05	+ 2.43
		7.75 - M	764.4	759.9	32.64	32.45	9780387	ORANGE	397807	396793	NONE	1.9587	1.9472	1.9444	+ 0.73	+ 0.14
		7.75 - M	738.7	731.7	31.54	31.24	9780387	LT. GREEN	397807	396793	NONE	1.8979	1.8749	1.8888	+ 0.21	- 0.73
		7.75 - M	700.2	706.2	33.74	33.57	9780387	ORANGE	397807	396793	NONE	2.0248	2.0146	2.0000	+ 1.24	+ 0.73
2.73 (4L:1B)	(STD. OR P26)	7.75 - M	782.0	777.3	35.62	35.41	1359270	ORANGE	397807	396793	NONE	2.0251	2.0154	2.0000	+ 1.25	+ 0.77
		7.75 - M	764.4	759.9	34.62	34.61	1359270	ORANGE	397807	396793	NONE	1.9585	1.9480	1.9444	+ 0.85	+ 0.46
		7.75 - M	738.7	731.7	33.65	33.33	1359270	ORANGE	397807	396793	NONE	1.9018	1.9098	1.8888	+ 1.97	+ 1.48
		7.75 - M	700.2	706.2	35.99	35.81	1359270	ORANGE	397807	396793	NONE	2.0453	2.0344	2.0000	+ 2.26	+ 1.92
3.07 (4G:1A)	(STD. OR P26)	7.75 - M	782.0	777.3	40.03	39.79	1359272	ORANGE	397807	396793	NONE	2.1374	2.1246	2.1111	+ 1.24	+ 0.63
		7.75 - M	764.4	759.9	39.12	38.89	1359272	ORANGE	397807	396793	NONE	2.0893	2.0770	2.0555	+ 1.64	+ 1.04
		7.75 - M	738.7	731.7	37.81	37.45	1359272	ORANGE	397807	396793	NONE	2.0191	1.9999	2.0000	+ 0.95	- 0.00
		7.75 - M	700.2	706.2	40.65	40.24	1359272	ORANGE	397807	396793	NONE	2.1598	2.1489	2.1111	+ 2.31	+ 1.79
3.31 (4G:1B)	(STD. OR P26)	7.75 - M	782.0	777.3	42.03	41.89	1359272	ORANGE	397807	396793	NONE	2.1374	2.1246	2.1111	+ 1.24	+ 0.63
		7.75 - M	764.4	759.9	41.12	40.99	1359272	ORANGE	397807	396793	NONE	2.0893	2.0770	2.0555	+ 1.64	+ 1.04
		7.75 - M	738.7	731.7	40.03	39.79	1359272	ORANGE	397807	396793	NONE	2.0191	1.9999	2.0000	+ 0.95	- 0.00
		7.75 - M	700.2	706.2	42.99	42.26	1359272	ORANGE	397807	396793	NONE	2.1598	2.1489	2.1111	+ 2.31	+ 1.79

REVOLUTIONS PER MILE USING CURB WEIGHT + DRIVER AND ONE PASSENGER WITH RECOMMENDED TIRE PRESSURE.
DATA FOR 7.75-1A TIRE APPLIES TO 35P15 TIRE.
7692 - ADAPTER 35615 (YELLOW)
8053 - ADAPTER 35617 (BLUE)

CHART FOR GROUP 96C CANADIAN BUILT F85 MODELS

CHART - SPEEDOMETER GEAR USAGE

SHEET 6

DATE JULY 31, 1969

DR. BY BOB HOLT

CHECKED DON MALIN

APPR. J. L. ...

FIRST USED 1969

OLDSMOBILE PRODUCT INFORMATION MANUAL

MANUAL SEC. 7

PAGE 98

SERIES A

PART NO. 403312

DATE	BY	REVISION
9/16/68	E	COLUMN REVISED
9/16/68	D	LINE REVISED
8/25/68	C	540474 REMOVED
8/25/68	B	535615 ADDED
8/25/68	A	LINE REVISED

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

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														
3 SPEED FULLY SYNCHRONIZED	2.78 (39:14)	205R-14	778.0	777.1	36.12	36.07	3915003 (28 PITCH)	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			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 9777230 ##	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			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 9777230 ##	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			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 9777230 ##	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			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 9777230 ##	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			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 9777230 ##	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			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		
4.66 (42:9)	205R-14	778.0	777.1	60.51	60.44	3915003 9777230 ##	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			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)

SHEET 1 OF 4

TITLE										CHART-SPEEDOMETER GEAR USAGE									
DATE <u>JAN. 10, 1968</u>										FIRST USED									
DR BY <u>DOY MALKIN</u>										1969									
CHECKED <u>J. ATTES</u>										OLDSMOBILE PRODUCT INFORMATION MANUAL									
APPR.										MANUAL SEC. <u>7</u> PAGE <u>105</u>									
										SERIES <u>A</u> PART NO. <u>403107</u>									

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

TRANSMISSION TYPE	AXLE RATIO	REAR TIRES				SPEEDO DRIVE GEAR				SPEEDO DRIVEN GEAR			DESIRED RATIO		DRIVE RATIO	% ERROR	
		SIZE	Ø		N/V		SPEEDO DRIVE GEAR		TEETH	PART NO.	COLOR	ADAPTER RATIO	45 MPH	60 MPH		45 MPH	60 MPH
			45 MPH	60 MPH	45 MPH	60 MPH	PART NO.	TEETH									
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	3.0549	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.

Ø 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

TITLE										CHART-SPEEDOMETER GEAR USAGE									
DATE JAN. 13, 1968										FIRST USED 1969									
DR BY DON MALKIN										OLDSMOBILE PRODUCT INFORMATION MANUAL 7 106									
CHECK'D R. Ames										SERIES A PART NO. 403107									
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

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	2.9118	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	3.7217	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 RFLY 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				SYMBOL				REVISION				DR. CK.			

TITLE		CHART-SPEEDOMETER GEAR USAGE	
DATE	JAN 13, 1968	FIRST USED	1969
DR. BY	DON MAIKIN	OLDSMOBILE PRODUCT	INFORMATION MANUAL
CHECKED	J.P. ...	MANUAL SEC.	7
APP. DR. CK.		PAGE	107
		SERIES	A
		PART NO.	403107

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

G. 403107, REV. 4-68

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	Ø		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	+ 2.79	+ 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	+ 1.26
		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	3.3896	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	3.7217	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.

SHEET 4

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

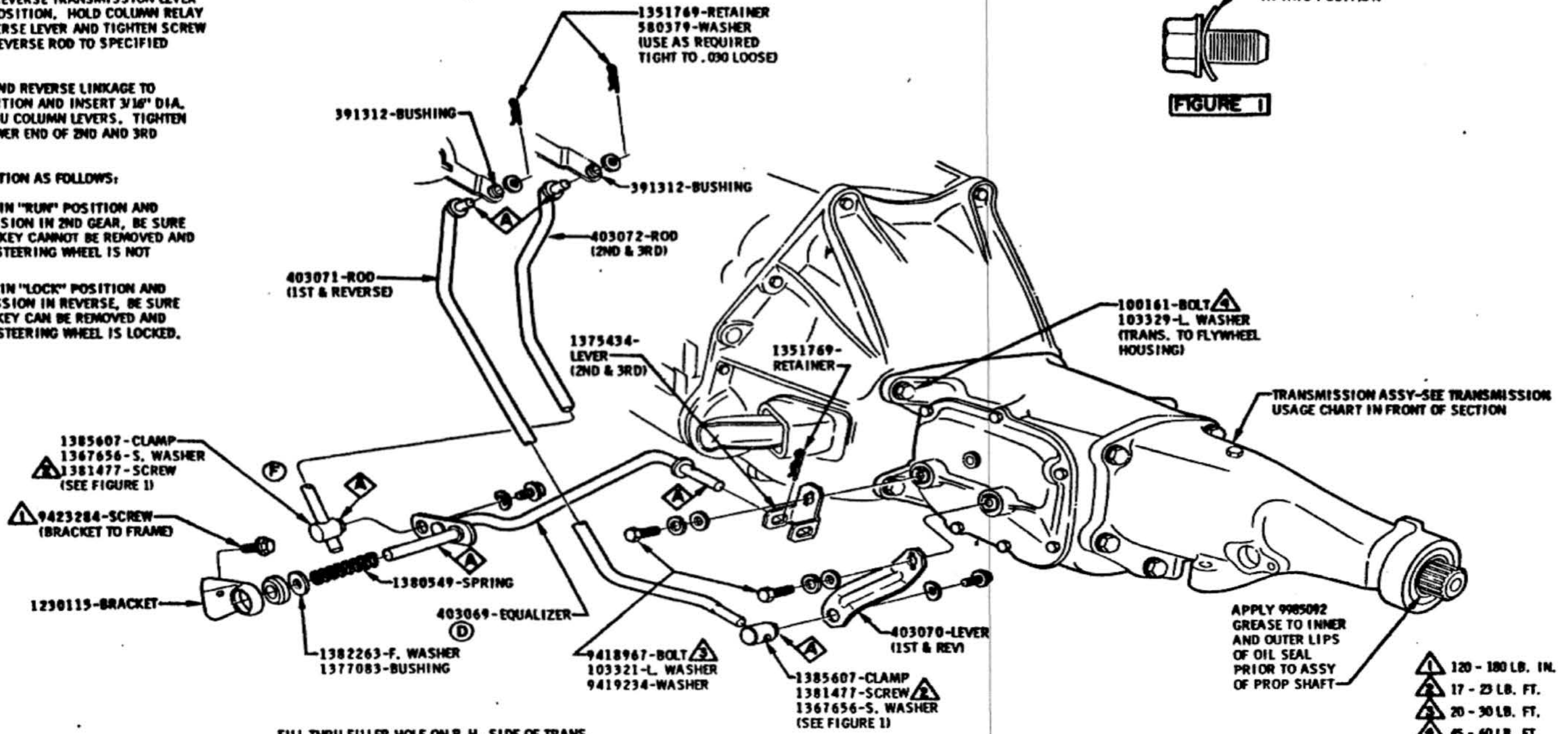
DATE	SYM	REVISION	DR	CK	DATE	SYM	REVISION	DATE	SYM	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
											CHART-SPEEDOMETER GEAR USAGE	1969		7	108
											DATE JAN 13, 1968				
											DR BY DON MALKIN				
											CHECKED				
											APP.				
													SERIES A		PART NO. 403107

(E)

SHIFT ROD ADJUSTMENT

WITH SHIFT ROD CLAMPS AND SCREWS LOOSE ASSEMBLED TO SHIFT RODS, TRANSMISSION SHIFT LEVERS IN NEUTRAL POSITION AND IGNITION KEY LOCKED:

1. SET 1ST AND REVERSE TRANSMISSION LEVER IN REVERSE POSITION. HOLD COLUMN RELAY IN FIRST REVERSE LEVER AND TIGHTEN SCREW ON 1ST AND REVERSE ROD TO SPECIFIED TORQUE.
2. RETURN 1ST AND REVERSE LINKAGE TO NEUTRAL POSITION AND INSERT 3/16" DIA. GAGE PIN THRU COLUMN LEVERS. TIGHTEN CLAMP AT LOWER END OF 2ND AND 3RD SHIFT ROD.
3. CHECK OPERATION AS FOLLOWS:
 - A. WITH KEY IN "RUN" POSITION AND TRANSMISSION IN 2ND GEAR, BE SURE THAT THE KEY CANNOT BE REMOVED AND THAT THE STEERING WHEEL IS NOT LOCKED.
 - B. WITH KEY IN "LOCK" POSITION AND TRANSMISSION IN REVERSE, BE SURE THAT THE KEY CAN BE REMOVED AND THAT THE STEERING WHEEL IS LOCKED.



INSTALL WASHER
IN THIS POSITION

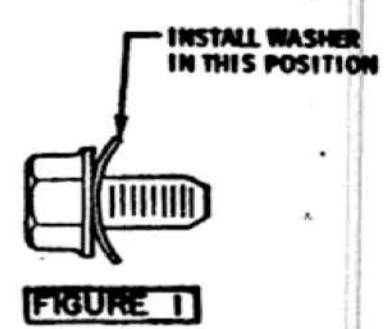
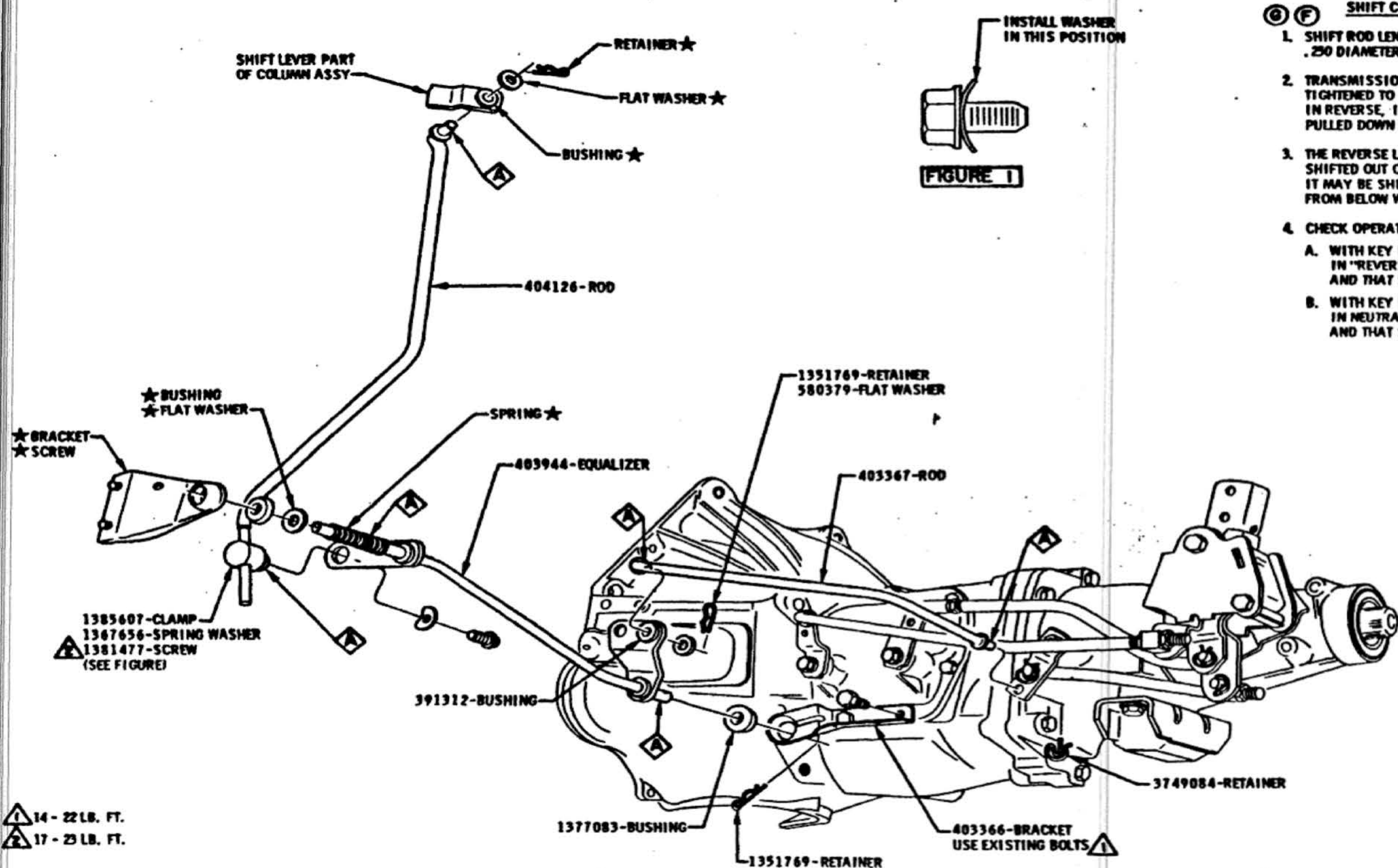


FIGURE 1

FILL THRU FILLER HOLE ON R. H. SIDE OF TRANS.
WITH 3.55 PINTS OF 9985044 OIL (LANSING PLANT).
FILL WITH 9985133 OR 9985044 (OPT.) OIL AT
ASSEMBLY PLANTS, THEN REINSTALL FILLER PLUG.

LUBRICATE AREAS INDICATED WITH
9985038 GREASE PRIOR TO ASSEMBLY

DATE	BY	REVISION	DESCRIPTION	DATE	BY	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
9-20-68	E		NOTE REVISED			SYNCHROMESH COLUMN SHIFT CONTROL				
9-17-68	D		REVISED TO DETAIL			DATE JANUARY 26, 1969	1969		7	115
7-19-68	C		WAS 1382862			DR. BY W.E. MASON				
6-17-68	B		NOTE REVISED			CHECKED BY B. Amhart				
4-1-68	A		WAS 9419402 - SCREW			APPR. F. ROENOWSKI	REF. 7A	SERIES A	PART NO.	401900



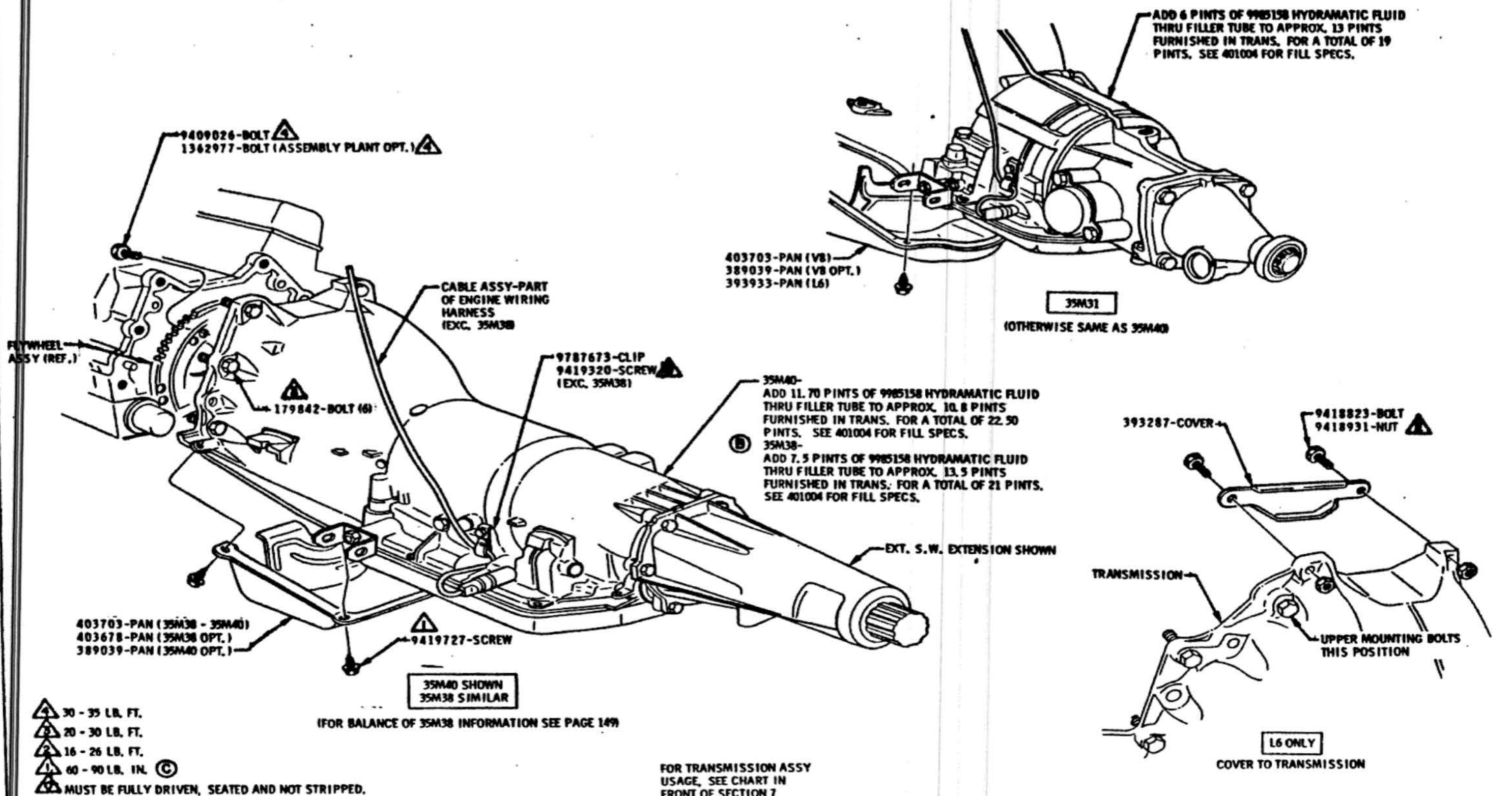
- SHIFT CONTROL LINKAGE ADJUSTMENTS**
1. SHIFT ROD LENGTHS MUST BE SET IN NEUTRAL WITH A .250 DIAMETER PIN INSTALLED IN BASE OF SHIFTER.
 2. TRANSMISSION CONTROL ROD SWIVEL MUST BE TIGHTENED TO SPECIFIED TORQUE WITH TRANSMISSION IN REVERSE, IGNITION KEY IN LOCK AND CONTROL ROD PULLED DOWN LIGHTLY AGAINST LOCK STOP.
 3. THE REVERSE LEVER OF THE SHIFTER MUST NOT BE SHIFTED OUT OF NEUTRAL INTO REVERSE FROM BELOW. IT MAY BE SHIFTED FROM REVERSE INTO NEUTRAL FROM BELOW WITHOUT DAMAGE TO THE SHIFTER.
 4. CHECK OPERATION AS FOLLOWS:
 - A. WITH KEY IN "LOCK" POSITION AND TRANSMISSION IN "REVERSE", BE SURE THAT KEY CAN BE REMOVED AND THAT STEERING WHEEL IS LOCKED.
 - B. WITH KEY IN "OFF" POSITION AND TRANSMISSION IN NEUTRAL, BE SURE THAT KEY CANNOT BE REMOVED AND THAT STEERING WHEEL IS NOT LOCKED.

14 - 22 LB. FT.
17 - 23 LB. FT.

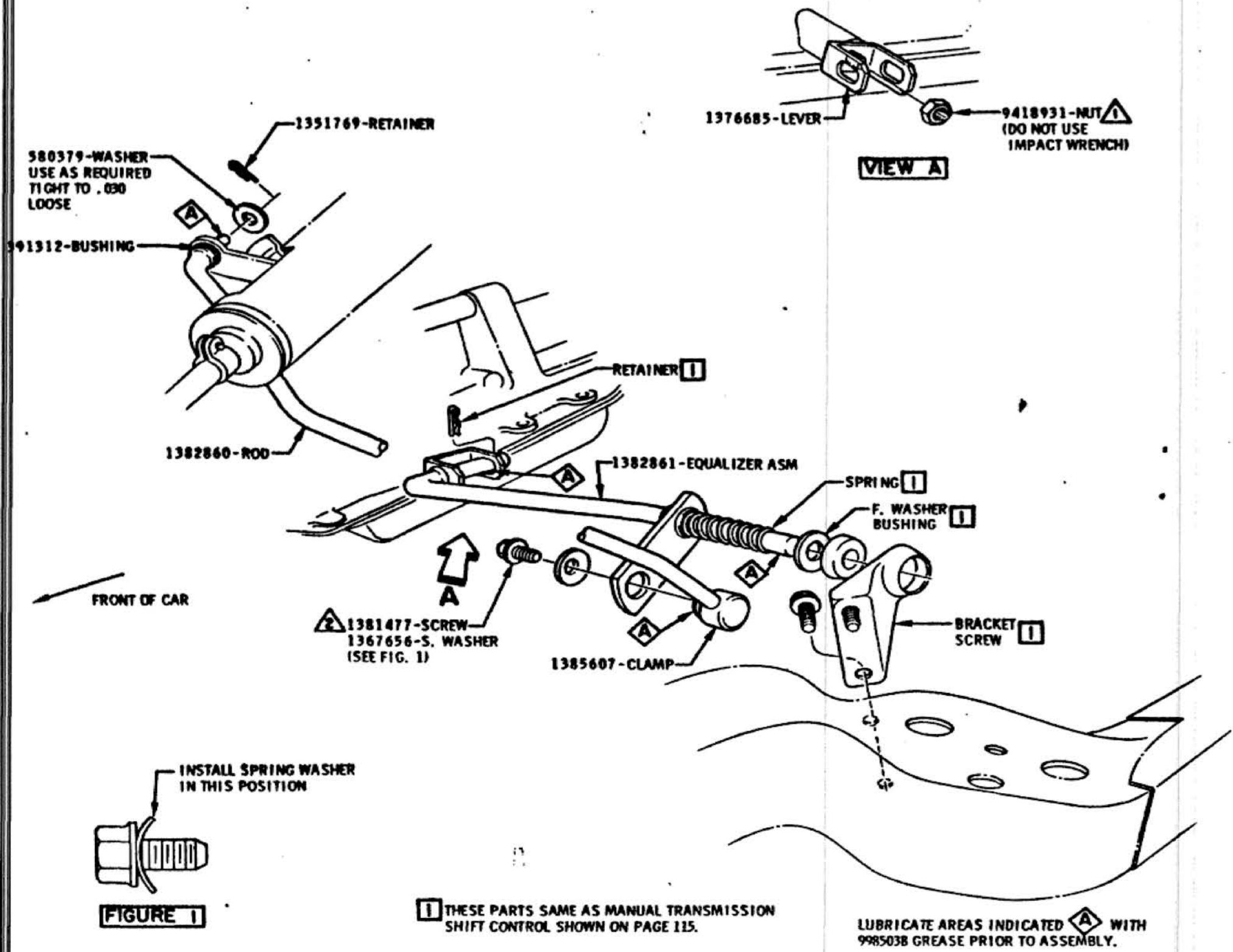
★ THESE PARTS SAME AS TRANSMISSION SHIFT CONTROL SHOWN ON PAGE 115

A LUBRICATE AREA WITH 9985038 GREASE 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	MANUAL SEC.	PAGE
					5-22-68	E	NOTE REVISED								4-SPEED TRANSMISSION BACK DRIVE LINKAGE				
					5-22-68	D	WAS 1382860-ROD								DATE MARCH 23, 1968	FIRST USED			
					5-21-68	C	WASHP REMOVED								DR. BY H.E. MASON	1969		7	126
					8-7-68	G	NOTE REVISED								CHECKED/PJ3/ambart				
					6-17-68	F	NOTE REVISED								APPR. JH/Leach				
					5-21-68	B	WAS 3749084-RETAINER												
					5-21-68	A	WAS 103365-EQUALIZER												
															APPR. SLL 4/17/69				
																	SERIES	PART NO.	
																	A	401900	



REVISION										TITLE								
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	AUTOMATIC TRANSMISSIONS								
1-2-69	C	WAS 30-60 LB. IN.								DATE	FEBRUARY 23, 1968	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	7	PAGE	135
8-15-68	B	NOTE REVISED								DR. BY	ED J. ROE	REF.	35M31	SERIES	A	PART NO.	401900	
4-27-68	A	DRG. REVISED TO INCLUDE M38								CHECKED	M. J. BARNHART	REF.	35M40					
										APPR.	F. ROSENDENSKI							
										APPR.	SAC 2/23/68							



SHIFT ROD ADJUSTMENT

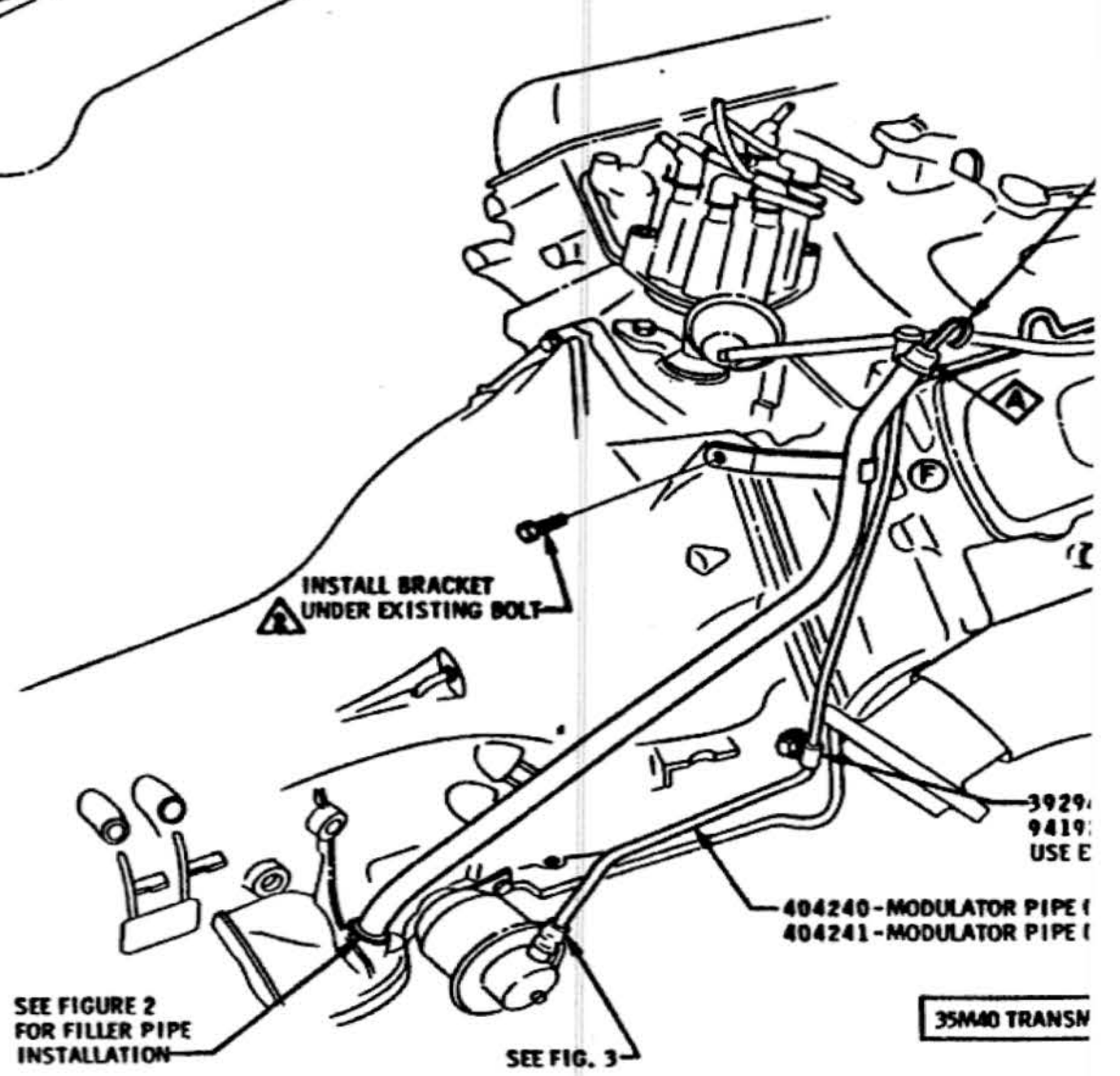
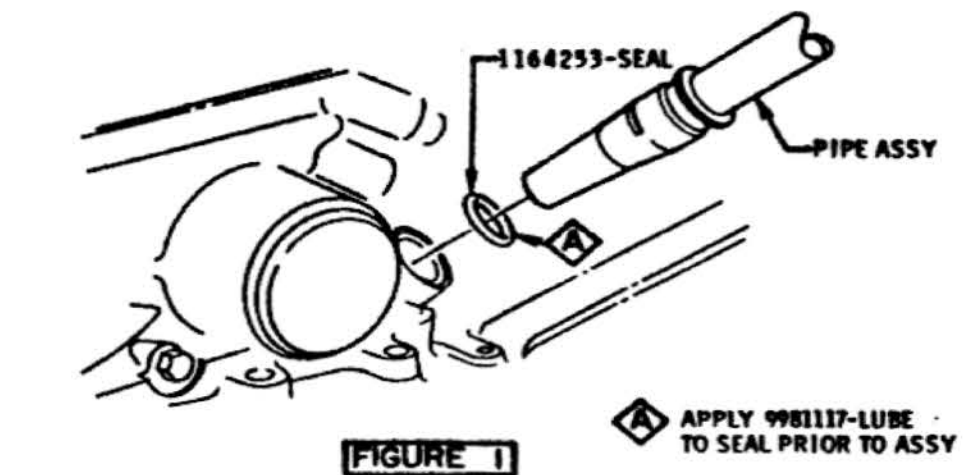
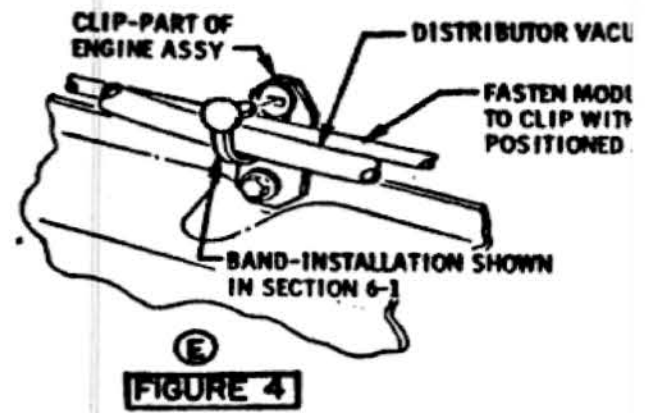
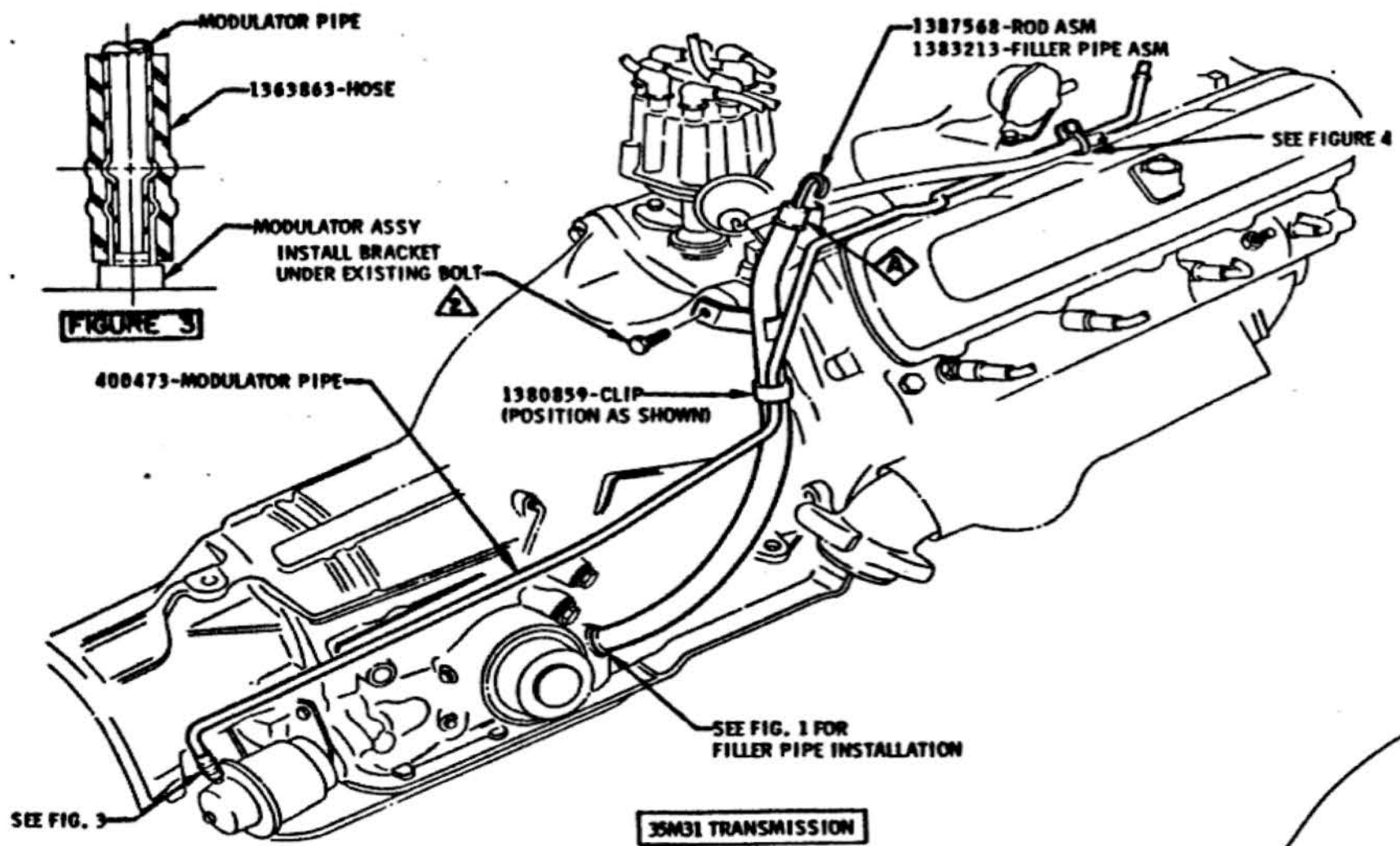
1. SET TRANSMISSION OUTER LEVER IN DRIVE POSITION.
2. HOLD UPPER SHIFT LEVER AGAINST DRIVE POSITION STOP IN UPPER STEERING COLUMN. (DO NOT RAISE LEVER).
3. TIGHTEN SCREW IN CLAMP ON LOWER END OF SHIFT ROD TO SPECIFIED TORQUE.
4. CHECK OPERATION:
 - A. WITH KEY IN "RUN" POSITION AND TRANSMISSION IN "REVERSE" BE SURE THAT KEY CANNOT BE REMOVED AND THAT STEERING WHEEL IS NOT LOCKED.
 - B. WITH KEY IN "LOCK" POSITION AND SHIFT LEVER IN "PARK", BE SURE THAT KEY CAN BE REMOVED, THAT STEERING WHEEL IS LOCKED, AND THAT THE TRANSMISSION REMAINS IN PARK WHEN THE STEERING COLUMN IS LOCKED.

1 THESE PARTS SAME AS MANUAL TRANSMISSION SHIFT CONTROL SHOWN ON PAGE 115.

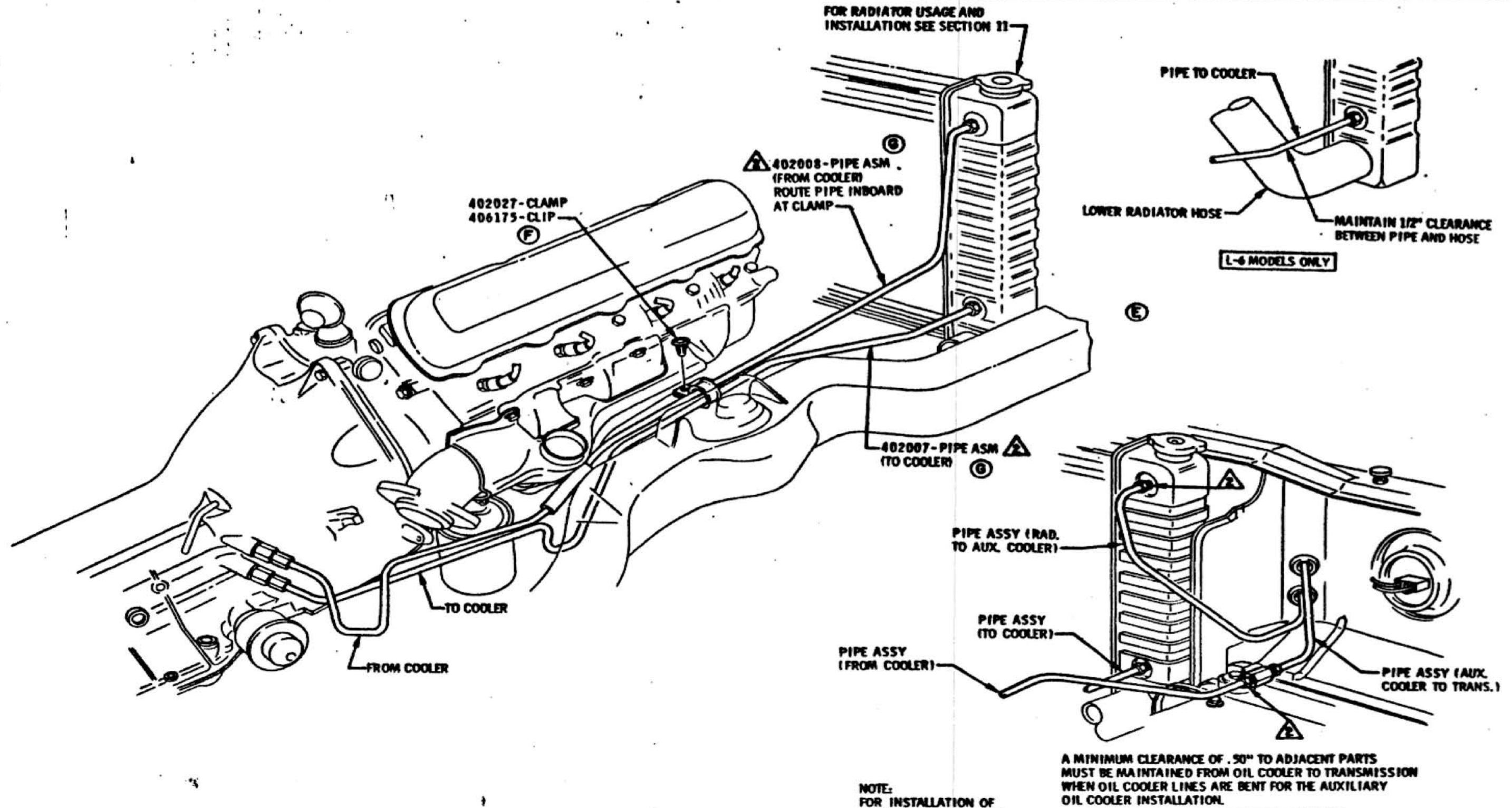
LUBRICATE AREAS INDICATED WITH 998503B GREASE PRIOR TO ASSEMBLY.

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 SEC.	PAGE
					8-7-68	E	WAS 102908											AUTOMATIC TRANSMISSION SHIFT CONTROL (EXC. 35055)				
					7-27-68	D	FIGURE 2 ADDED												DATE JANUARY 16, 1968	FIRST USED 1969		
					6-20-68	C	ADJUSTMENT NOTE REV.												DR. BY W.E. MASON		7	140
					6-20-68	B	VIEW REVISED												CHECKED BY [Signature]			
					3-2-68	A	NOTE ADDED												APP. BY [Signature]			
					10-29-68	H	REVISED & REDRAWN												REV. BY [Signature]			
					8-29-68	G	NOTE REVISED												MSB, M&C			
					8-29-68	F	REVISED TO DETAIL												BL-16457			
																				SERIES A		PART NO. 401900

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN



DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLD INFO	SERIES
					5-10-68	E	VIEW REVISED														V8 MODULATOR AND FILLER		
					6-26-68	D	WAS 400661														DATE JANUARY 29, 1968	1969	
					6-26-68	C	WAS 400660														DR. BY ED J. ROE		
					5-21-68	B	WAS 1383413														CHECKED <i>[Signature]</i>		
					4-26-68	A	385061-RETAINER REMOVED														APPR. F. ROZNOWSKI	REF. 35M31-480	
					11-18-68	F	BOLT & CLIP REMOVED														APPR. <i>[Signature]</i> 1/30/68	183A-783C	



⚠ 15 - 25 LB. FT.

NOTE:
FOR INSTALLATION OF
AUXILIARY OIL COOLER
SEE SECTION 11

A MINIMUM CLEARANCE OF .50" TO ADJACENT PARTS
MUST BE MAINTAINED FROM OIL COOLER TO TRANSMISSION
WHEN OIL COOLER LINES ARE BENT FOR THE AUXILIARY
OIL COOLER INSTALLATION.

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

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION
					1-27-69	E	IDENT. TAPE ADDED										
					10-8-68	D	TORQUE REVISED										
					7-31-68	C	NOTE REVISED										
					3-14-69	G	PIPE CODE REMOVED										
					2-25-69	F	WAS 9420025-SCREW										

TITLE		AUTOMATIC TRANSMISSION OIL COOLER PIPES	
DATE	JANUARY 5, 1968	FIRST USED	1969
DR. BY	W. E. MASON	REF. (1964)	35M 51, 198, 190
CHECKED	W. B. BARBER	SERIES	A
APPR.	F. ROZANOWSKI	PART NO.	401900
APPR.	3/21/68	MANUAL SEC.	7
		PAGE	155



SECTION 8 FUEL AND EXHAUST

- 100 FUEL TANK CHART
- 110 FUEL SYSTEM
- 120 EXHAUST SYSTEM CHART
- 130 EXHAUST SYSTEM
- 140 EXHAUST SYSTEM CLEARANCE

DATE 6-17-68

MANUAL NO. 401900

SERIES A

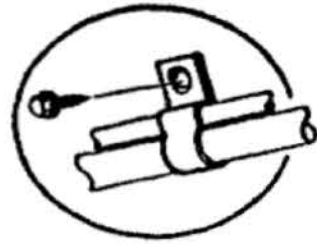
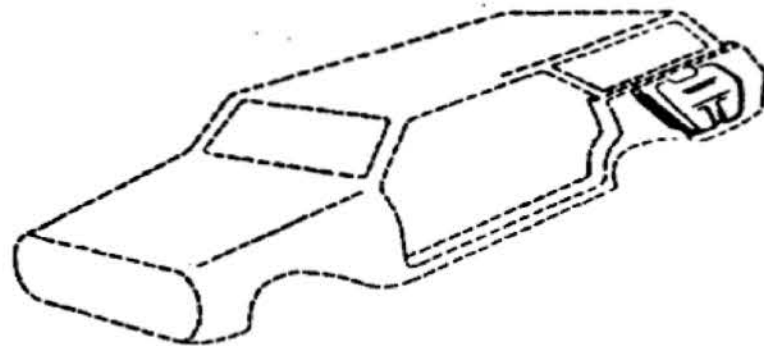
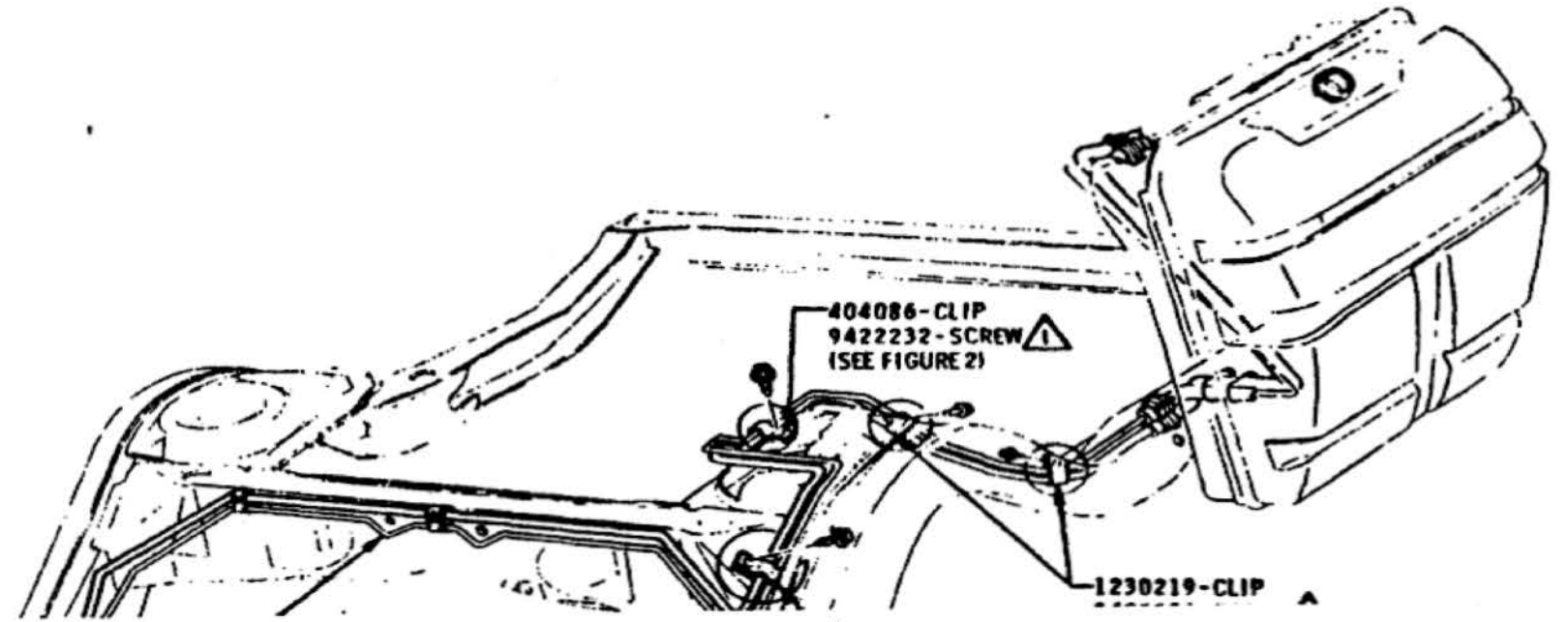
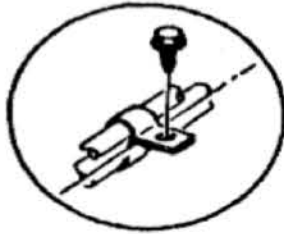
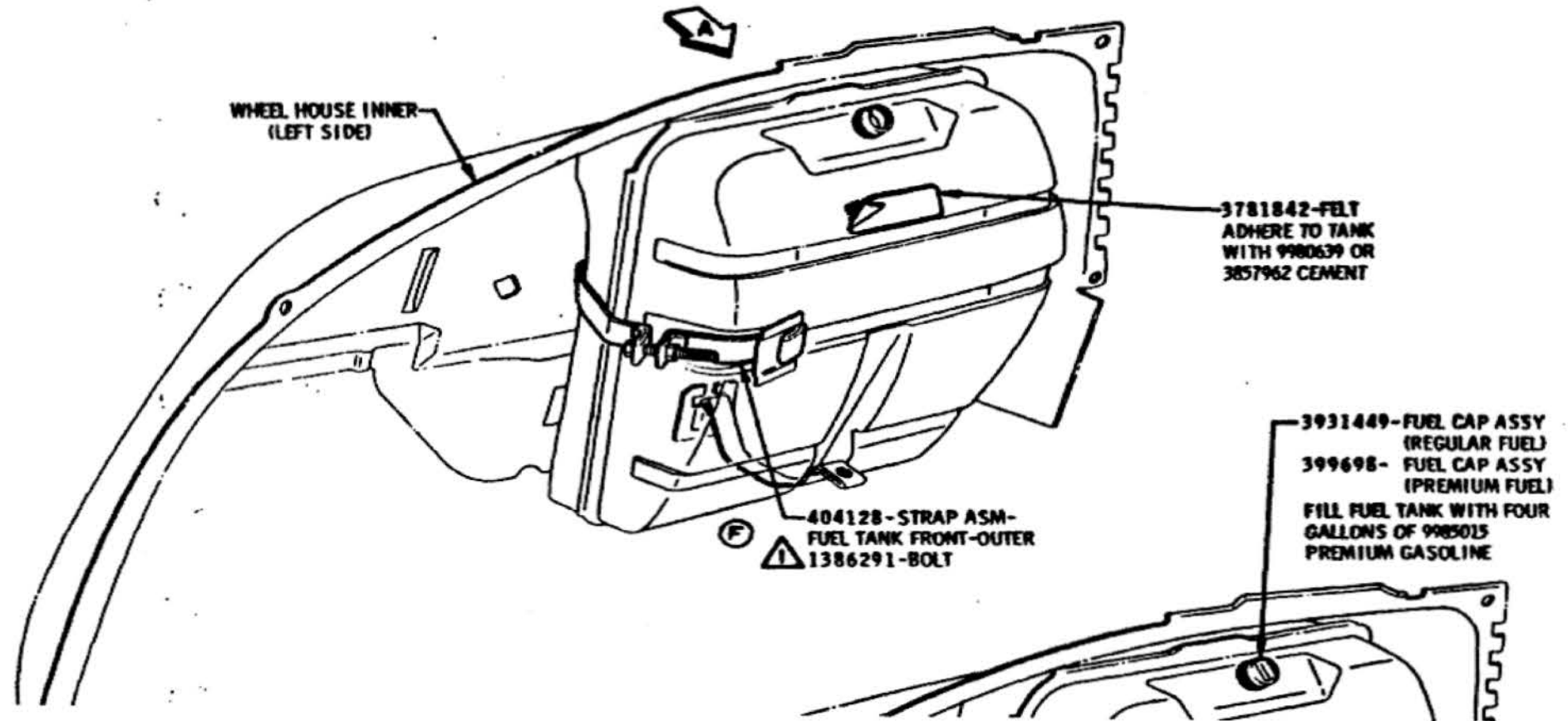
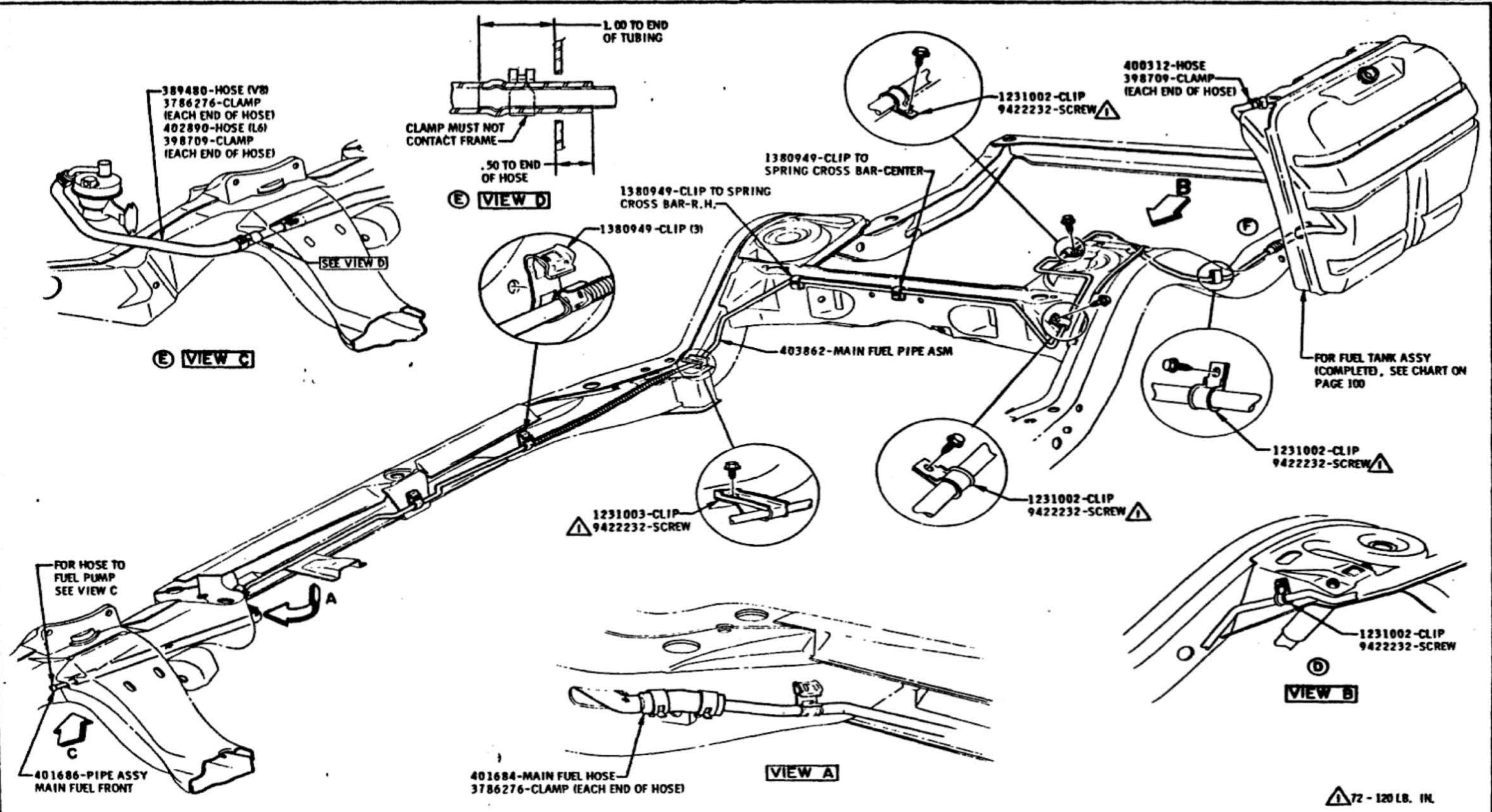


FIGURE 1

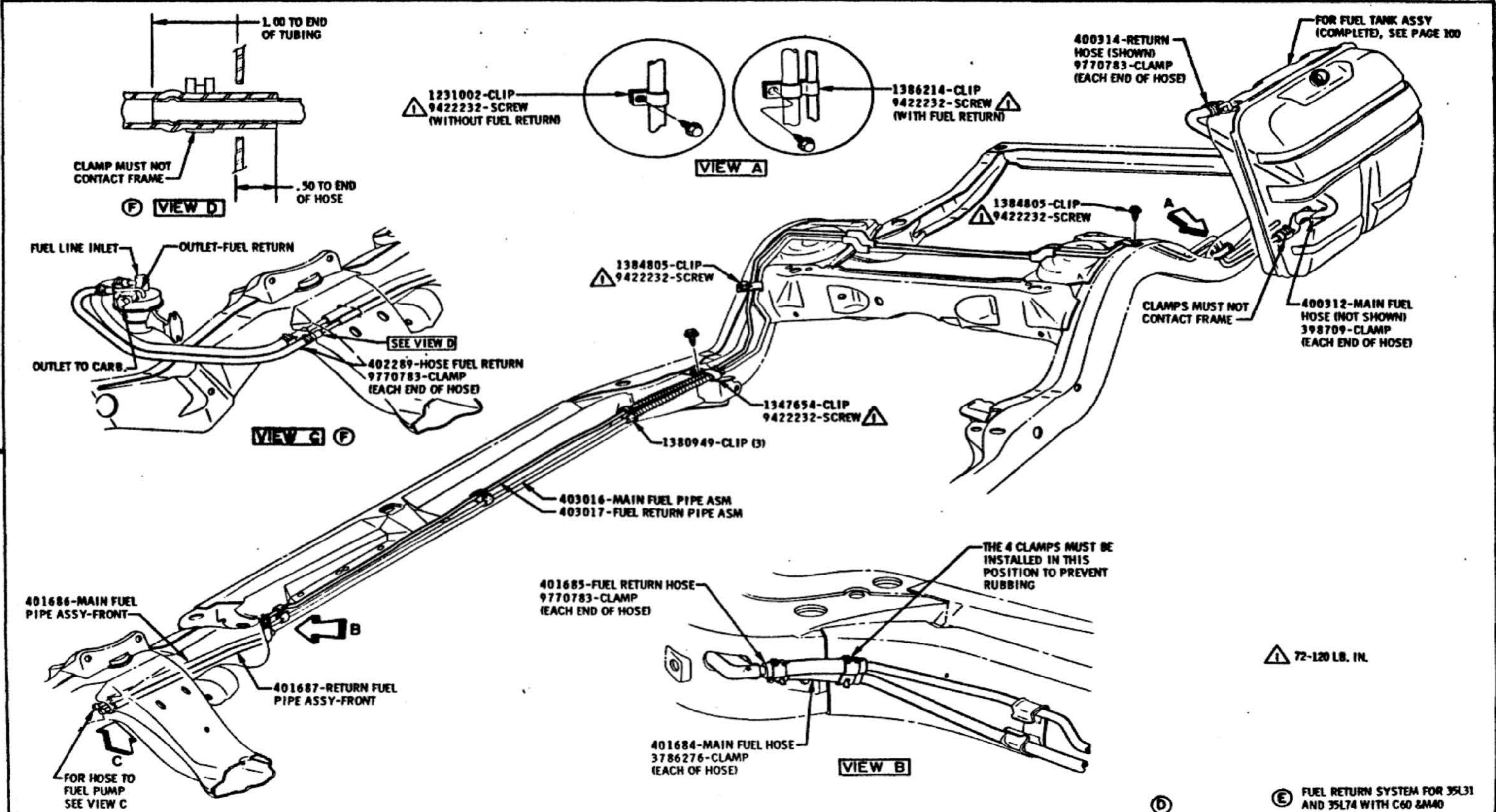


ORIENTATION VIEW

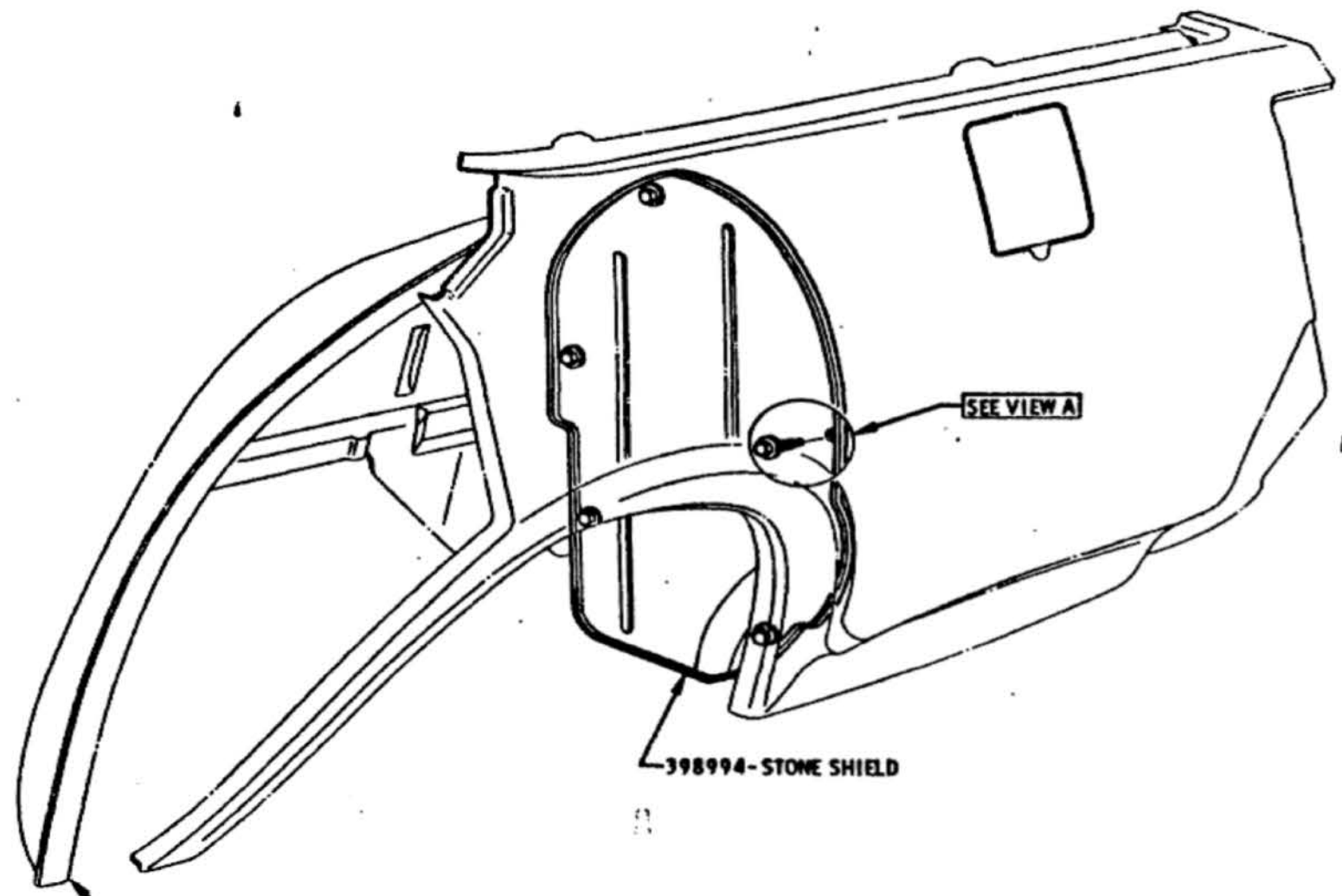




DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
					11-15-68	E	VIEWS ADDED	J13	DT											FUEL SYSTEM - STATION WAGON	1969		8	114
					9-30-68	D	VIEW REVISED	J13	DT											DEC. 6, 1967				
					9-30-68	C	WAS 403682 FUEL PIPE	J13	DT											DR. BY 130YER				
					6-24-68	B4	CLIP REVISED TO DETAIL	J13	DT											CHECKED				
					6-4-68	A	FUEL LINE FASTENERS RE-REVISED	J13	DT											APPR. J. B. LAMOND				
					11-19-68	F	HOSE ROUTING REVISED	J13	DT											APPR. R. B. LAMOND	8B	SERIES A	PART NO.	401900



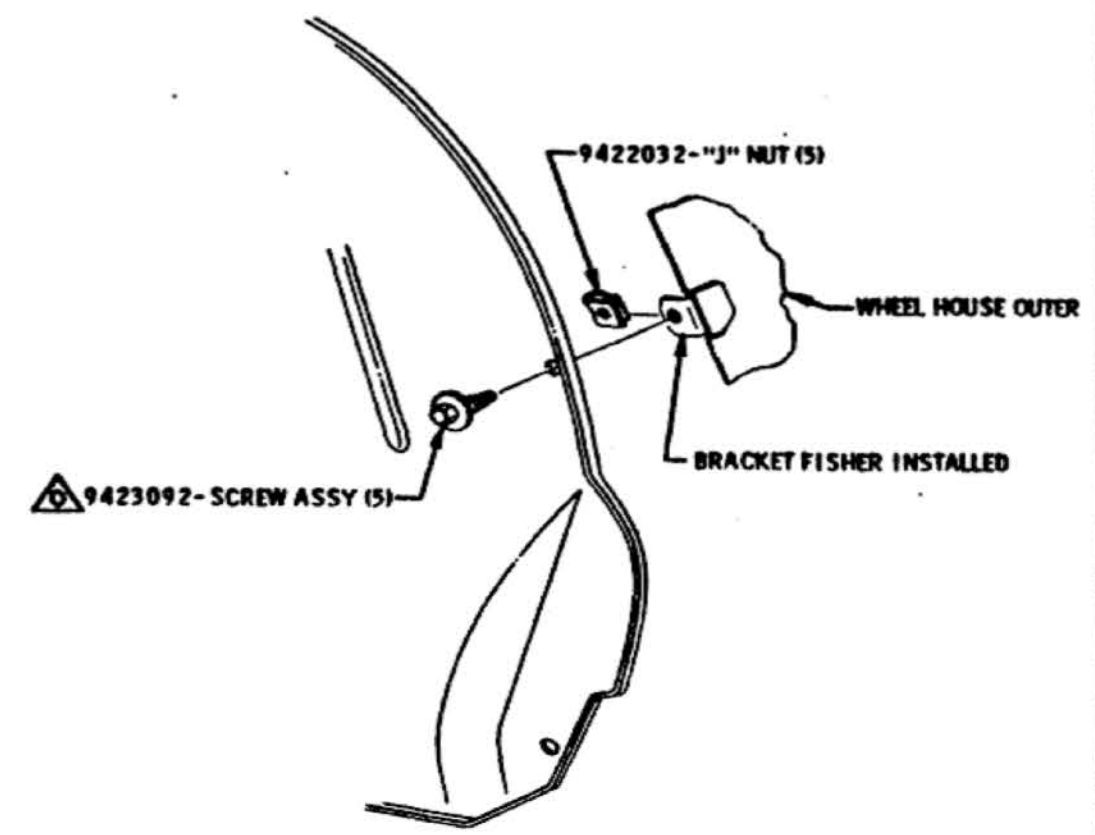
		11-15-68 E	NOTE REVISED	J13	DT	TITLE	FUEL LINE AND FUEL RETURN LINE EXTENDED WAGON		
		8-10-68 D	TITLE REVISED	1/6	ED	DATE	DEC. 16, 1967	FIRST USED	1969
		8-8-68 C	TORQUE ADDED	1/4	DT	DR. BY	BOYER	OLDSMOBILE PRODUCT	MANUAL SEC. PAGE
		8-8-68 B	INFO. FROM PAGE 115 ADD	1/6	DT	CHECKED	Tolson	INFORMATION MANUAL	8 116
		4-15-68 A	INFO. MOVED TO PAGE 117	1/6	DT	APPR.	9-2-70 Dr. Rankin	SERIES	A
		4-15-68 E2	VEHS ADDED	1/6	DT			PART NO.	401900



WHEEL HOUSE INNER
WHEEL HOUSE OUTER NOT SHOWN

398994-STONE SHIELD

SEE VIEW A



9423092- SCREW ASSY (5)

9422032-"J" NUT (5)

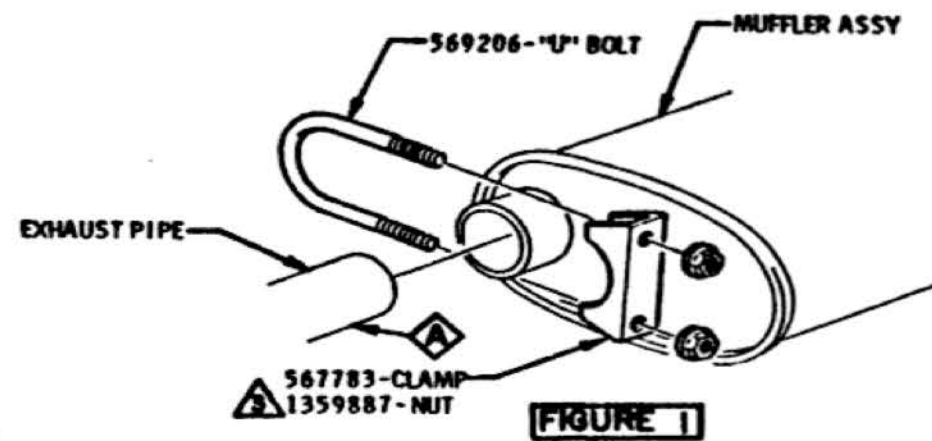
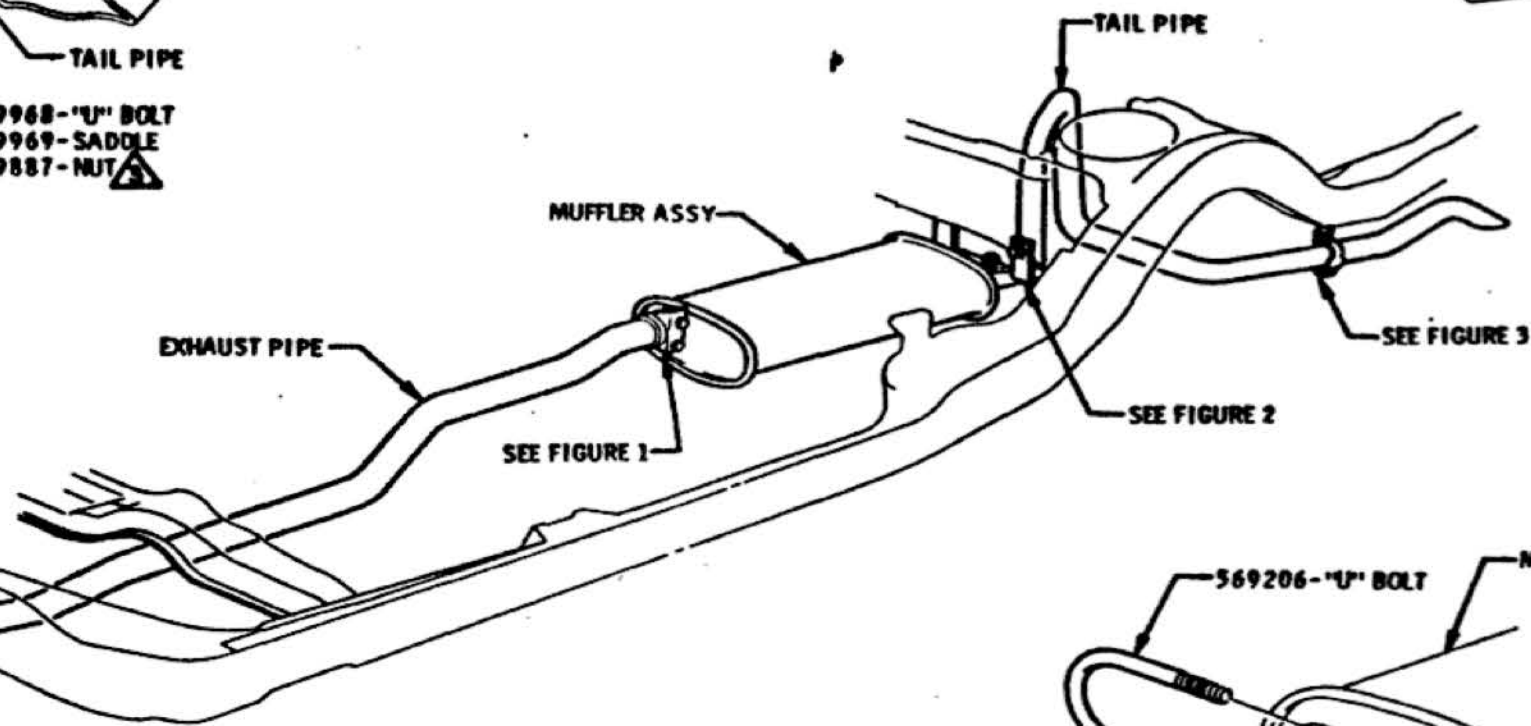
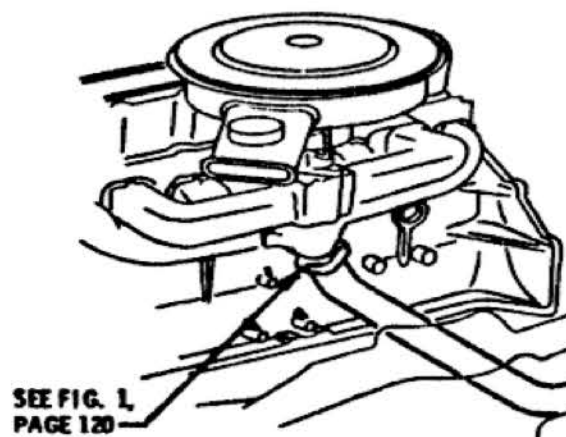
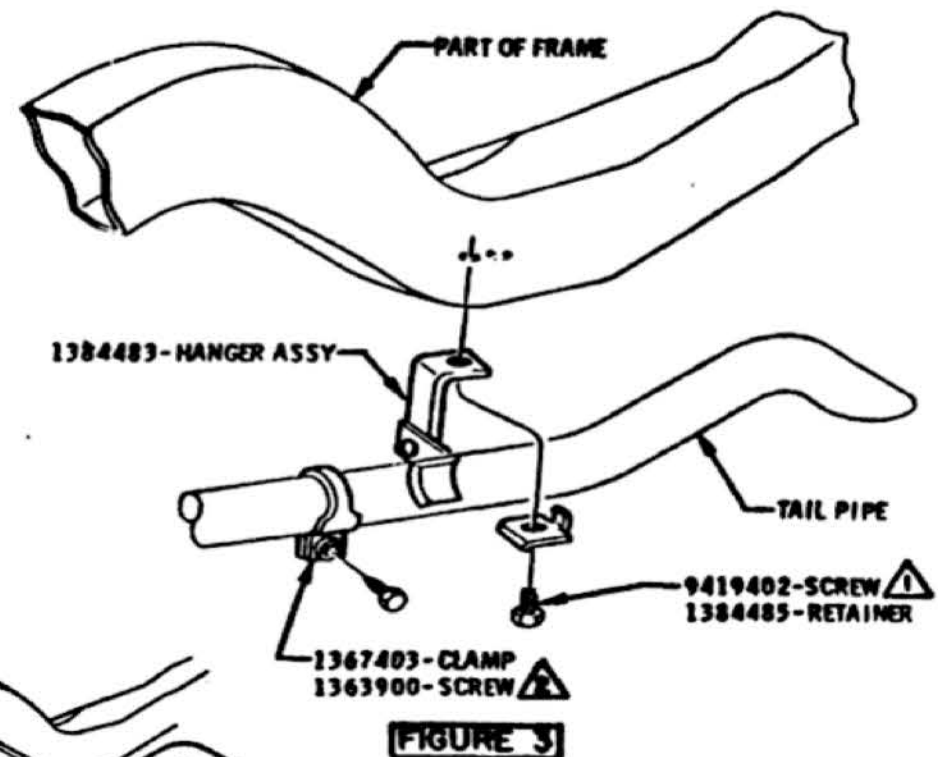
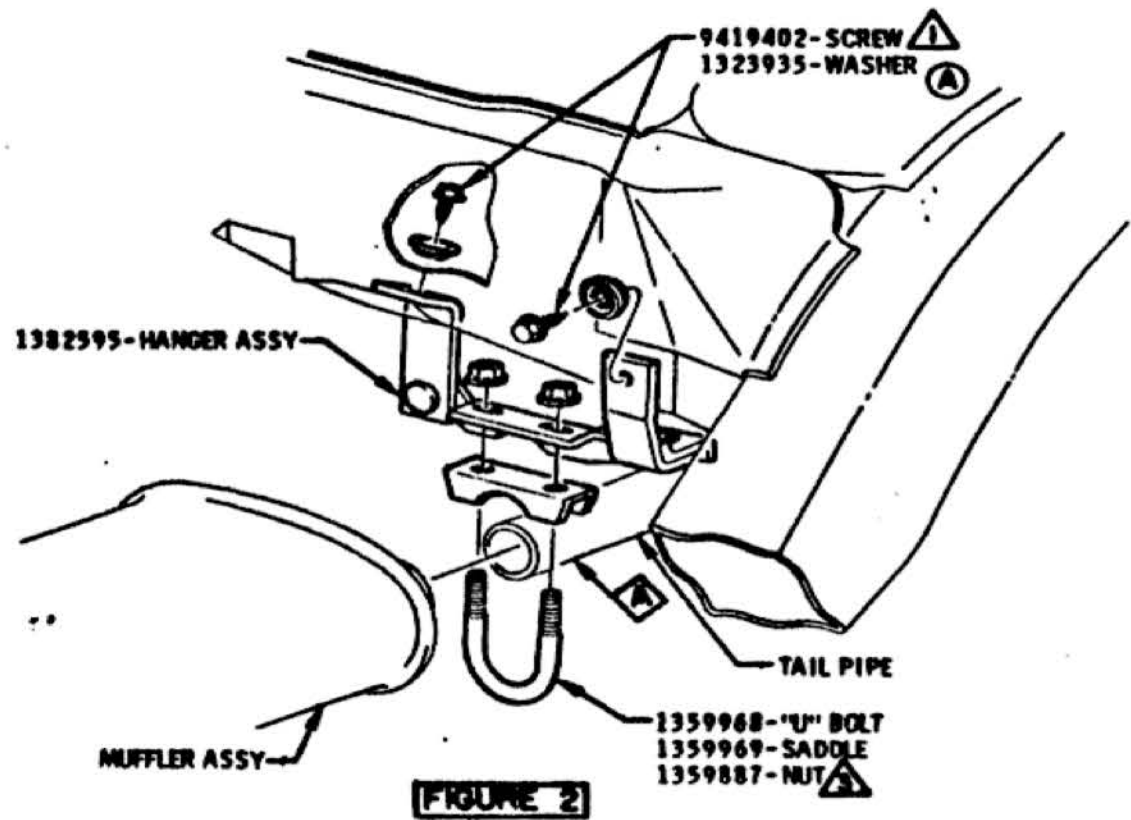
WHEEL HOUSE OUTER

BRACKET FISHER INSTALLED

VIEW A

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

										TITLE		FUEL TANK STONE SHIELD (STATION WAGONS)							
										DATE		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
										AUG. 7 1968		1969		INFORMATION MANUAL		8		117	
										DR. BY		RET		SERIES		PART NO.			
										BOYER-GILL		B11		A		401900			
										CHECKED		APP.		DR. CK.					
										[Signature]		[Signature]		[Signature]					
										APP.		APP.							
										[Signature]		[Signature]							
										DR. CK.		DR. CK.							
										[Signature]		[Signature]							



SEAL AREAS INDICATED
 WITH 9985020 SEALER

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

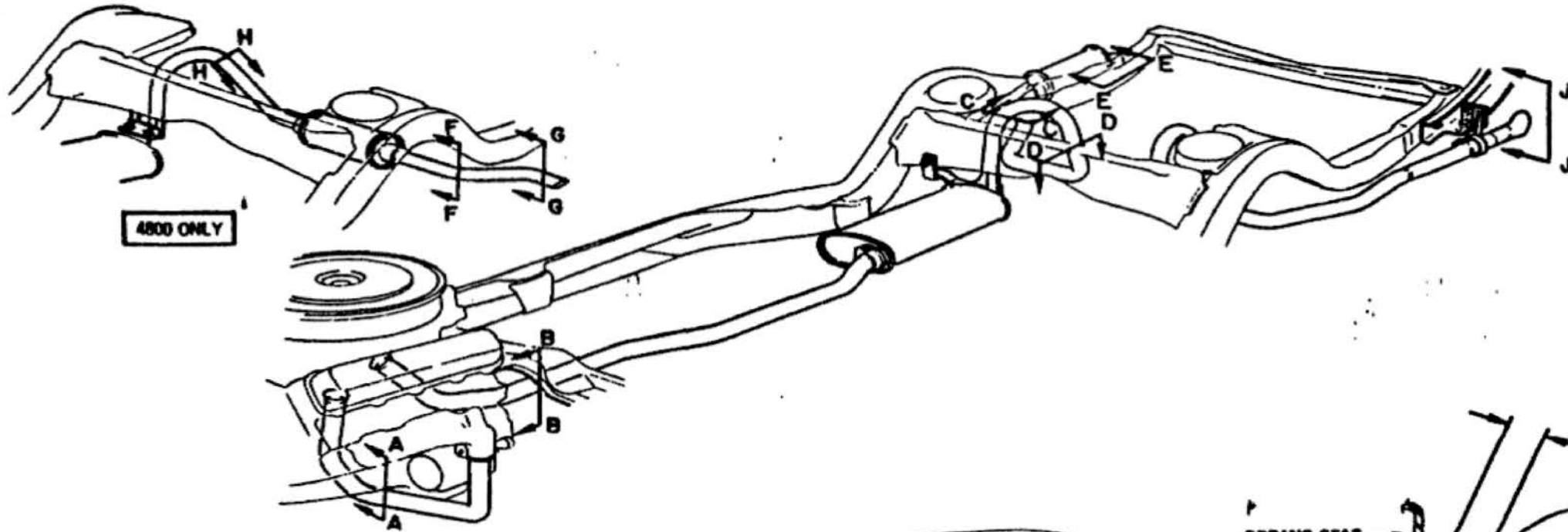
- ▲ 72 - 96 LB. IN.
- ▲ 108 - 144 LB. IN.
- ▲ 132 - 180 LB. IN.

					TITLE					L-6 EXHAUST SYSTEM				
					DATE					FIRST USED				
					DEC. 6, 1967					1969				
					DR. BY					130YER				
					CHECKED					REF. JR. 8825E				
					SERIES					PART				
					A					401800				
					MANUAL SEC.					PAGE				
					8					130				

OLDSMOBILE DIVISION

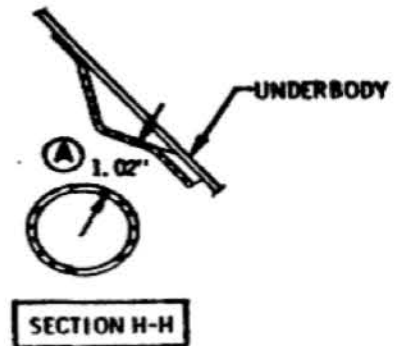
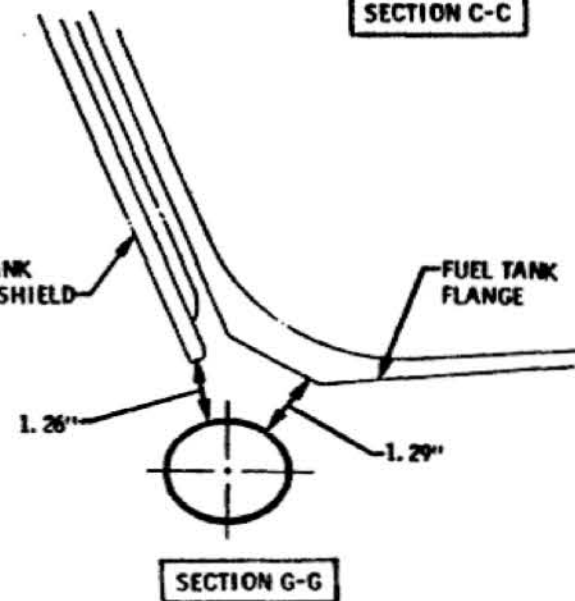
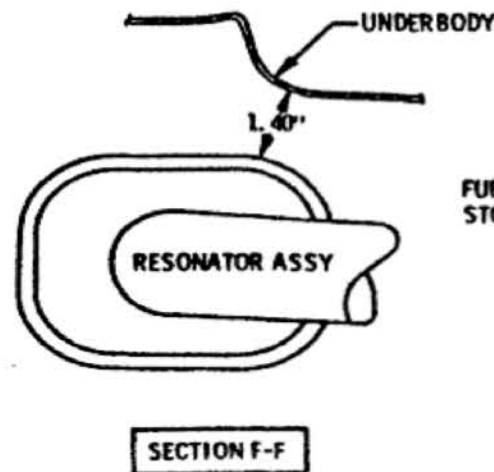
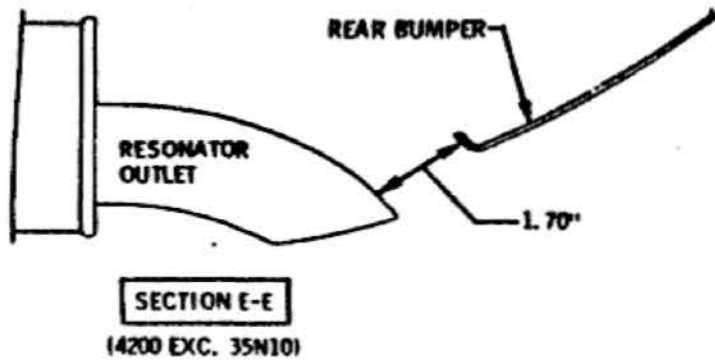
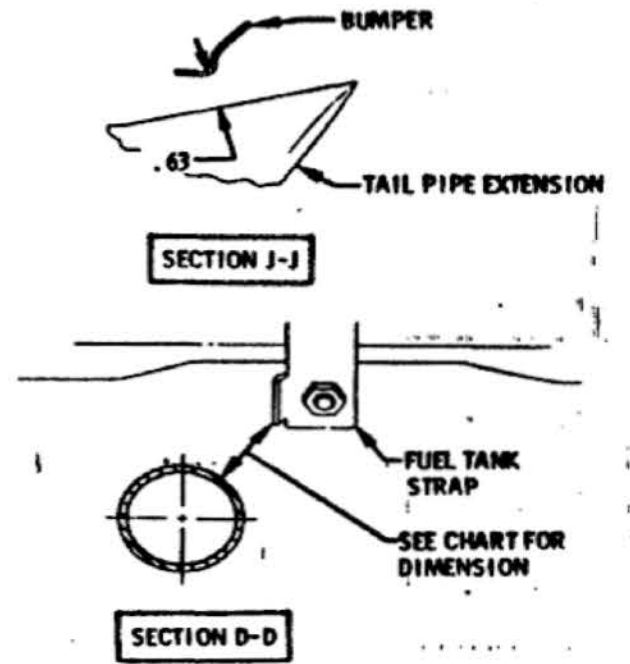
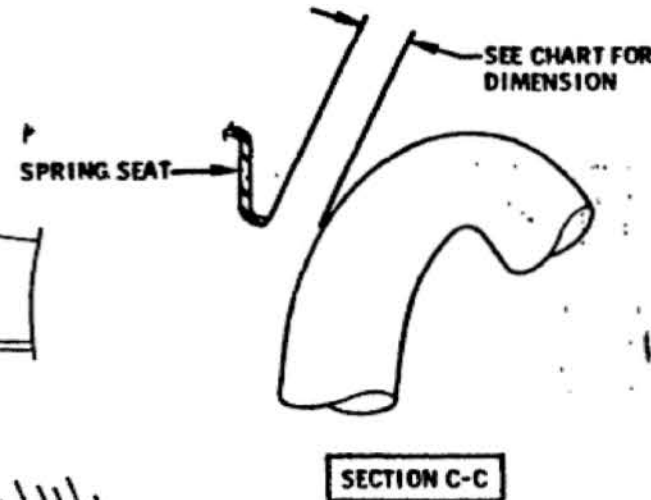
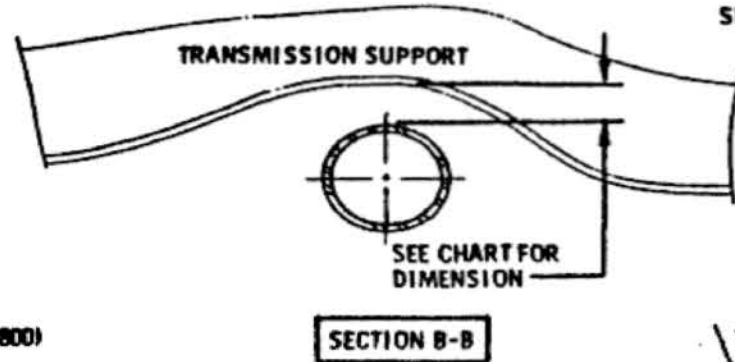
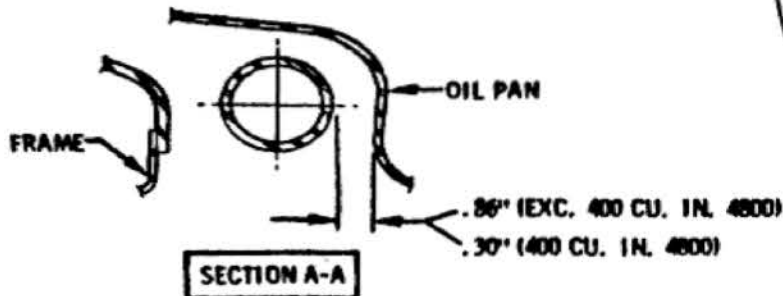
GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

9. 200000, 100, 4000



ENGINE	SECTION B-B		SECTION C-C		SECTION D-D	
	R.H.	L.H.	R.H.	L.H.	R.H.	L.H.
L-6	--	.80"	--	1.34"	--	1.48"
350 V-8 EXC. S.W.	.82"	.68"	1.20"	--	1.34"	--
350 V-8 S.W.	.82"	.68"	1.34"	--	--	--
400 V-8 (4400)	.70"	1.02"	1.06"	1.06"	1.56"	1.56"
350 V-8 (4800)	.68"	--	1.10"	--	--	--
400 V-8 (4800)	.61"	--	1.10"	--	--	--

4800 ONLY



TITLE										EXHAUST SYSTEM CLEARANCES			
DATE <i>DEC. 9, 1967</i>										FIRST USED		1969	
DR. BY <i>13QYER</i>										OLDSMOBILE PRODUCT		MANUAL SEC. PAGE	
CHECKED <i>JTB</i>										INFORMATION MANUAL		8 140	
APPR. <i>J.L. ...</i>										SERIES		PART NO.	
										A		401900	



SECTION 9 STEERING SYSTEM

100	STEERING CHARTS
109	STEERING COLUMN INSTALLATION REQUIREMENTS
110	STEERING COLUMN DRESS
115	STEERING WHEELS
119	LOCK CYLINDER
125	STEERING GEAR AND HOSES
350	35K30 COLUMNS

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.
6. FILL POWER STEERING SYSTEM WITH A RECIRCULATING FILL SYSTEM USING POWER STEERING FLUID (9983010).
FILL SYSTEM VACUUM IS NOT TO EXCEED 29" HG AND PRESSURE IS NOT TO EXCEED 35 PSI AT POWER STEERING PUMP.
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 <i>NOV. 17, 1967</i>		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
										DR. BY <i>B. SCHMIDT</i>		1969		INFORMATION MANUAL		9		100	
										CHECKED <i>J. P. ...</i>		SERIES		PART NO.					
										APPR. <i>J. P. ...</i>		ABCE		402717					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.				

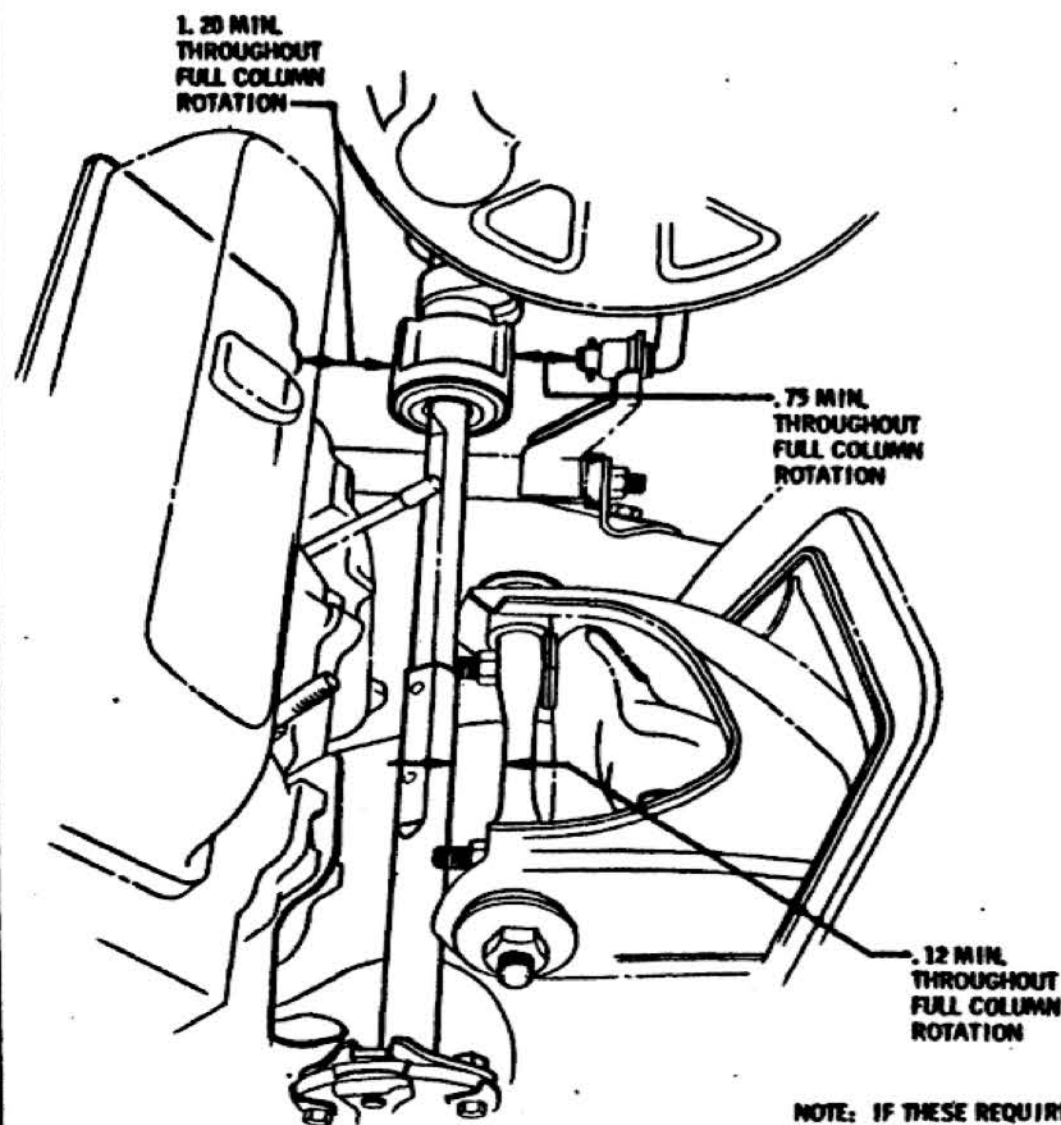
OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

U. S. PATENT OFFICE

PART NO.	CODE	COLOR	TRANS.	TYPE	USAGE
7804304	SK	BROWN	SMT	COLUMN	F-85
7804281	SL	WHITE	SMT	FLOOR	F-85
(H) 7804281 ★	SL	WHITE	AT	FLOOR	3500 WITH CONSOLE (D55)
7807199 #	AB	GREEN	AT	FLOOR	F-85 (EXC. 3500 & D55)
7804279	SE	GREEN	AT	COLUMN	F-85
7804328	KS	YELLOW	AT	COLUMN	F-85 TILT WHEEL
7804329	KT	YELLOW	SMT	FLOOR	F-85 TILT WHEEL
(H) 7804329 ★	KT	YELLOW	AT	FLOOR	3500 WITH CONSOLE (D55) & TILT WHEEL (N33)
7807194 #	SN	GREEN	AT	FLOOR	F-85 TILT WHEEL (EXC. 3500 & D55)
7804309	SB	GREEN	AT	COLUMN	B/C WITH CORNERING LIGHTS (T87)
7804303	SD	GREEN	AT	FLOOR	B/C WITH CORNERING LIGHTS (T87)
7804351	SG	GREEN	AT	COLUMN	B/C T & T WHEEL WITH CORNERING LIGHTS (T87)
7804352	SH	GREEN	AT	FLOOR	B/C T & T WHEEL WITH CORNERING LIGHTS (T87)
7807516	SY	GREEN	AT	COLUMN	B/C TILT WHEEL
7804310	SP	GREEN	AT	COLUMN	B/C
7805576	SR	GREEN	SMT	COLUMN	B/C
7804305	SF	GREEN	AT	COLUMN	E WITH CORNERING LIGHTS (T87)
7804353	SI	GREEN	AT	COLUMN	E T & T WHEEL WITH CORNERING LIGHTS (T87)
7808086	AD	GREEN	AT	COLUMN	E TILT WHEEL WITH CORNERING LIGHTS (T87)
7804307	ST	YELLOW	AT	COLUMN	E
7804306	SZ	GREEN	AT	FLOOR	E WITH CORNERING LIGHTS (T87)
7804354	SX	GREEN	AT	FLOOR	E T & T WHEEL WITH CORNERING LIGHTS (T87)

★ 2ND TYPE
1ST TYPE FOR 3500 ONLY

				12169 E CODE SY ADDED		TITLE		CHART - STEERING COLUMN IDENTIFICATION CODE	
4-18-69	H ₂	LINE ADDED	KA/JA	3-30-68	C	7807516 ADDED	DR. BY C. GORDOON	FIRST USED	MANUAL SEC. PAGE
4-18-69	G ₂	USAGE REVISED	KA/JA	7-16-68	B ₂	PART NO'S ADDED	CHECKED J. FITZ	1969	9 105
12169	F	TITLE REVISED	RS/JA	7-16-68	A ₂	AT REMOVED	APPR. J. FITZ	REF.	SERIES PART



NOTE: IF THESE REQUIREMENTS CANNOT BE MET, IT SIGNIFIES A QUALITY DEFICIENCY IN A COMPONENT PART THAT MUST BE CORRECTED.

MANDATORY INSTRUCTIONS

1. LOOSE ASSEMBLE INNER [1] AND OUTER [2] DASH COVER ON COLUMN WITH TWO SCREWS [3]. OPTIONAL TO TIGHTEN TOP SCREW. DASH COVER MUST BE ABLE TO SLIDE ON COLUMN.
2. GLUE COVER SEAL [4] TO THE OUTER COVER [2].
3. SET BODY ON FRAME WITH SPECIFIED GAGE PINS AT #1 AND #4 LOCATIONS. TIGHTEN TWO BODY BOLTS PRIOR TO REMOVAL OF GAGE PINS.
(USE OLDS GAGE PIN 77481-JF OR EQUIVALENT AT #1 LOCATION.)
(USE OLDS GAGE PIN 77480-JF OR EQUIVALENT AT #4 LOCATION.)

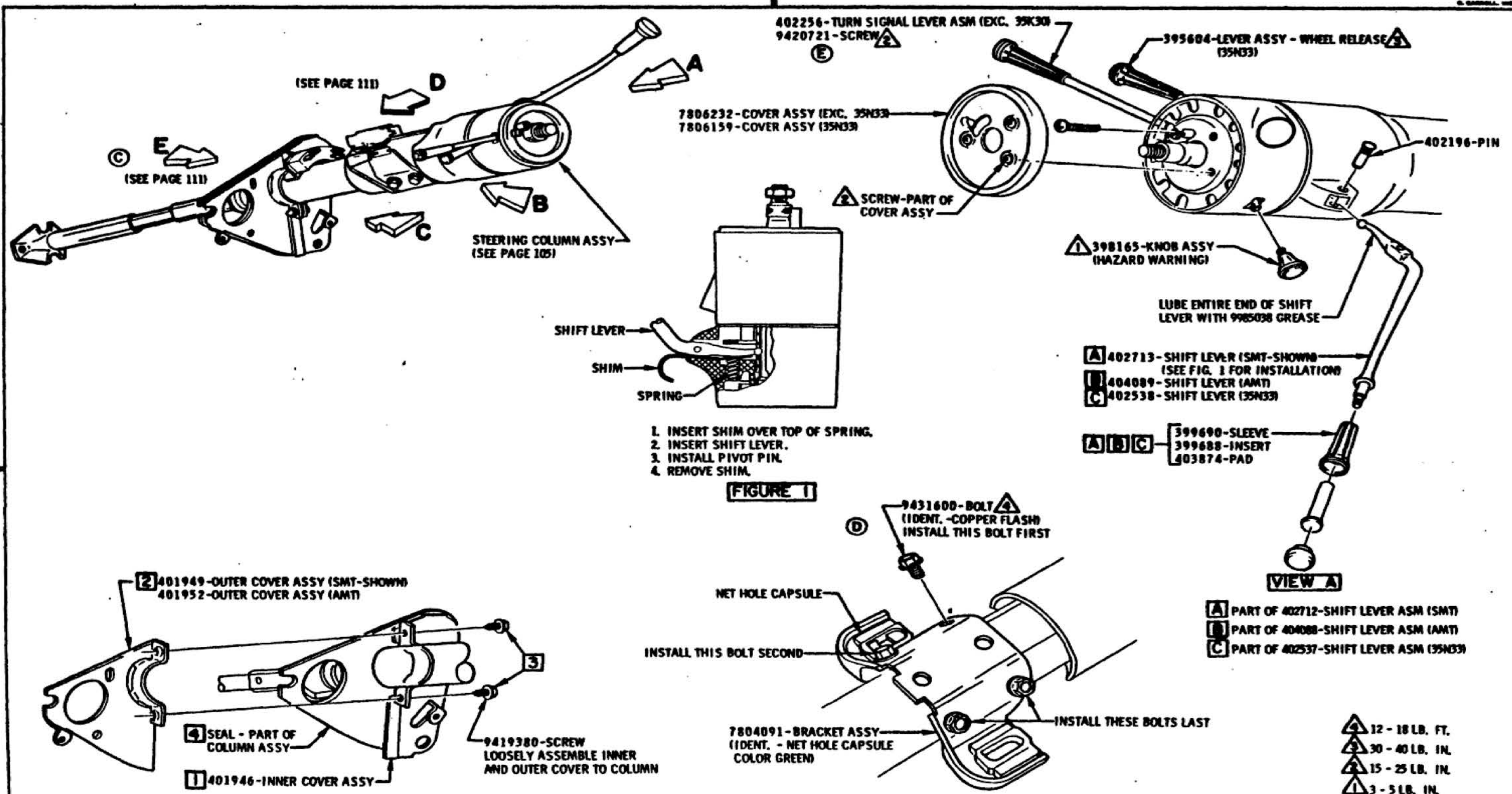
MANDATORY INSTALLATION SEQUENCE

1. COLUMN WILL BE INSTALLED INTO THE BODY AFTER BODY DROP OR THE COLUMN MAY BE CARRIED IN THE BODY PRIOR TO BODY DROP, SUPPORTED PROPERLY, BUT NOT ATTACHED TO DASH PANEL, AND STUDS MUST NOT BE ENGAGED IN CAPSULES.
2. INSTALL IGNITION SWITCH CONNECTOR [5] TO IGNITION SWITCH.
3. POSITION COLUMN IN THE BODY AND POSITION THE FLANGE TO THE RAG JOINT AND INSTALL LOCK WASHERS AND NUTS. (MAY BE TIGHTENED TO SPECIFIED TORQUE AT ANY TIME) (PAGE 125.)
4. LOOSE ASSEMBLE NUTS [6] AT THE INSTRUMENT PANEL.
5. POSITION OUTER COVER TO DASH USING BENCH AWL OR BY STARTING SCREW [7] IN ROUND NET HOLE.
6. INSTALL SCREW [8] AND TIGHTEN TO SPECIFIED TORQUE. TIGHTEN SCREW [7] TO SPECIFIED TORQUE AND INSTALL SCREW [9] TO SPECIFIED TORQUE.
7. TIGHTEN TWO CLAMP SCREWS [3] AND TIGHTEN TO SPECIFIED TORQUE.
8. INSTALL TWO INNER COVER SCREWS [10] AND TIGHTEN TO SPECIFIED TORQUE.
9. TIGHTEN TWO NUTS [6] TO THE SPECIFIED TORQUE.

MANDATORY SYSTEM REQUIREMENTS

- A. POT JOINT OPERATING ANGLE MUST NOT EXCEED 5°.
- B. RAG JOINT MUST NOT BE DISTORTED GREATER THAN ± .040 DUE TO POT JOINT BOTTOMING IN EITHER DIRECTION.
- C. MINIMUM CLEARANCE.
 1. UPPER CONTROL ARM SHAFT TO STEERING SHAFT IS 0.12".
 2. ENGINE TO POT JOINT IS 1.20".
 3. CLUTCH LINKAGE TO POT JOINT IS 0.75".

REVISION										TITLE				
DATE	BY	REVISION	DR.	CK.	DATE	BY	REVISION	DR.	CK.	STEERING COLUMN INSTALLATION REQUIREMENTS				
										DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
										MAY 2 1968	1969		9	109
										DR. BY W.C. MASON				
										CHECKED J.P.				
										APPR. J. G. GIBSON		SERIES	PART NO.	
										APPR. SMC 5/6/68		A	401900	



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

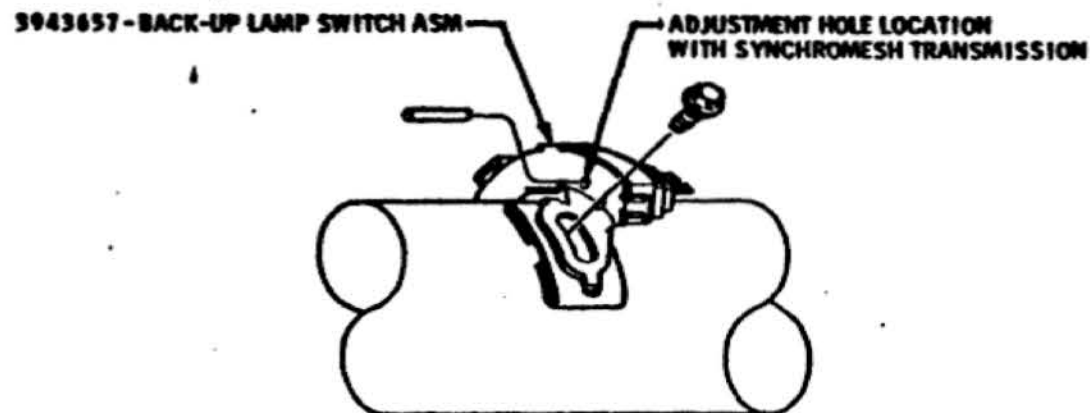
FIGURE 1

1-17-69	E	WAS 9420531-SCREW	DR	TITLE	STEERING COLUMN DRESS	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
11-25-68	D	WAS 9420367 BOLT	DR	DATE	JAN. 8, 1969				9	110
11-18-68	C	ARROW "I" ADDED	DR	DR. BY	R.C.M. - R.B.L.					
6-5-68	B	WAS PAGE IN	VG	CHECKED						
6-5-68	A	REVISED & REDRAWN	VG	APPR.						

REV. 2018, 9A 9C
24, 18, 35, 41,
33, 47, 52, 60

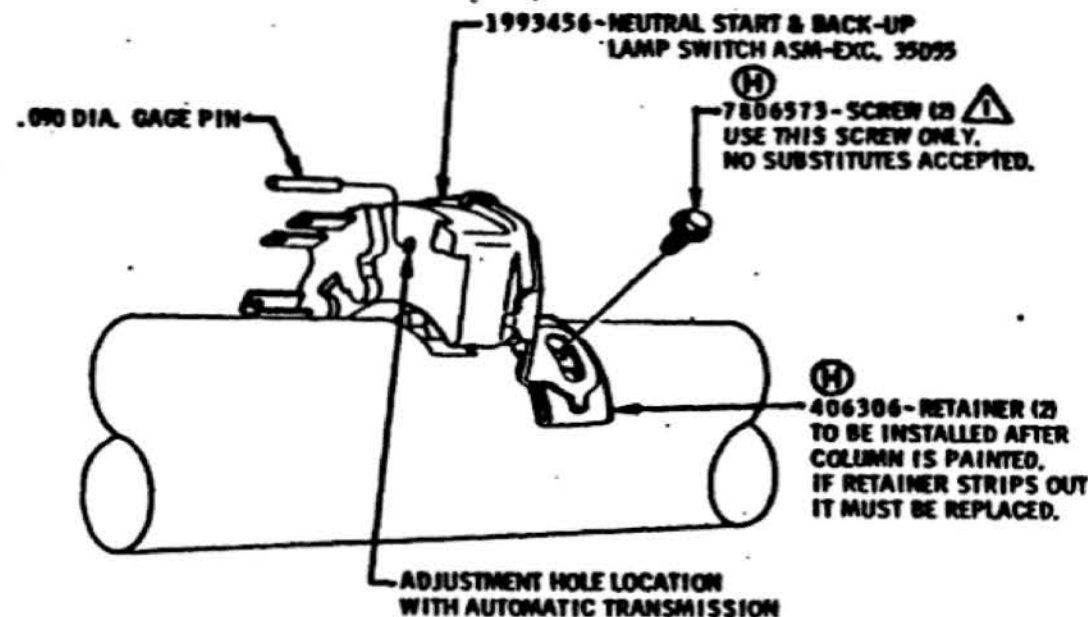
SERIES A
PART NO. 401900

**SYNCHROMESH BACK-UP
LAMP SWITCH INSTALLATION**



VIEW C
(FROM PAGE 110)
(PARTS OTHERWISE SAME AS VIEW "D")

**AUTOMATIC TRANSMISSION
NEUTRAL START & BACK-UP
LAMP SWITCH INSTALLATION**



VIEW D
(FROM PAGE 110)

SWITCH ASSEMBLY IS FIXED IN REVERSE POSITION WITH INTERNAL PLASTIC SHEAR PIN. INSTALL SWITCH ON COLUMN DRESS LINE WITH STEERING COLUMN IN LOCK POSITION. INSERT SWITCH DRIVE TANG INTO SHIFT TUBE SLOT, SWITCH BRACKET TANGS INTO RETAINER SLOTS, AND FASTEN WITH PROPER SCREW. AFTER INSTALLATION PLASTIC PIN IN SWITCH WILL SHEAR WHEN SHIFT LEVER IS MOVED OUT OF REVERSE POSITION.

AFTER COLUMN IS INSTALLED IN CAR AND SHIFT LINKAGE ADJUSTED, SWITCH AND CONTACT SUPPORT MUST PERMIT INSERTION OF .090 DIA. GAGE PIN IN REVERSE POSITION.

TO RE-INSTALL OR RE-ADJUST AFTER PLASTIC PIN IN SWITCH HAS BEEN SHEARED, ALIGN HOLE IN SWITCH AND CONTACT SUPPORT, INSERT .090 DIA. GAGE PIN AND INSTALL AS ABOVE. REMOVE GAGE PIN BEFORE MOVING SHIFT LEVER.

SWITCH ASSEMBLY IS FIXED IN DRIVE POSITION WITH INTERNAL PLASTIC SHEAR PIN. INSTALL SWITCH ON COLUMN DRESS LINE AFTER UPPER SHIFT LEVER IS INSTALLED. HOLD LEVER AGAINST DRIVE POSITION STOP IN STEERING COLUMN, INSERT SWITCH DRIVE TANG INTO SHIFT TUBE SLOT, SWITCH BRACKET TANGS INTO RETAINER SLOTS, AND FASTEN WITH PROPER SCREW. AFTER INSTALLATION PLASTIC PIN IN SWITCH WILL SHEAR WHEN UPPER SHIFT LEVER IS MOVED OUT OF DRIVE POSITION.

AFTER COLUMN IS INSTALLED IN CAR AND SHIFT LINKAGE ADJUSTED, SWITCH AND CONTACT SUPPORT MUST PERMIT INSERTION OF .090 DIA. GAGE PIN IN DRIVE POSITION.

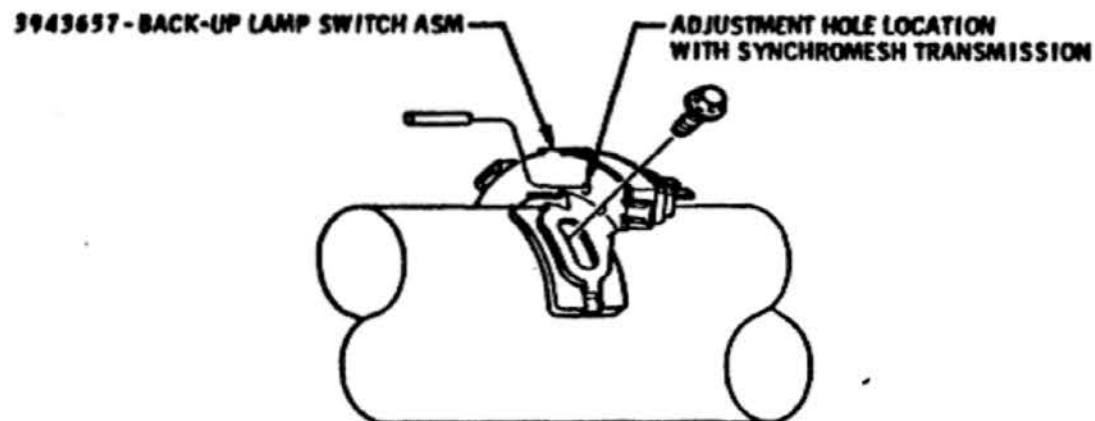
TO RE-INSTALL OR RE-ADJUST AFTER PLASTIC PIN IN SWITCH HAS BEEN SHEARED, ALIGN HOLE IN SWITCH AND CONTACT SUPPORT, INSERT .090 DIA. GAGE PIN AND INSTALL AS ABOVE. REMOVE GAGE PIN BEFORE MOVING UPPER SHIFT LEVER.

⚠ 16 - 23 LB. IN.

REVISIONS				TITLE				STEERING COLUMN DRESS	
10-22-68	E	WAS 10-14 LR IN.	PL	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL REC.	PAGE	
1-25-69	J	TORQUE REVISED	PL	JAN. 8, 1968	1969		9	111	
1-25-69	H	PART NUMBERS REVISED	PL	DR. BY R.C. MASON					
11-14-68	G	REVISED & REDRAWN	PL	CHECKED <i>PL</i>					
11-21-68	F	WAS 7806573 - SCREW	PL	APPR. <i>PL</i>					
10-22-68	D	WAS 7806573 - SCREW	PL						
10-22-68	C	GROMMET ADDED	PL						
8-5-68	B	TITLE BLOCK REVISED	PL						
6-10-68	A	INFO. MOVED TO PAGE NO	PL						

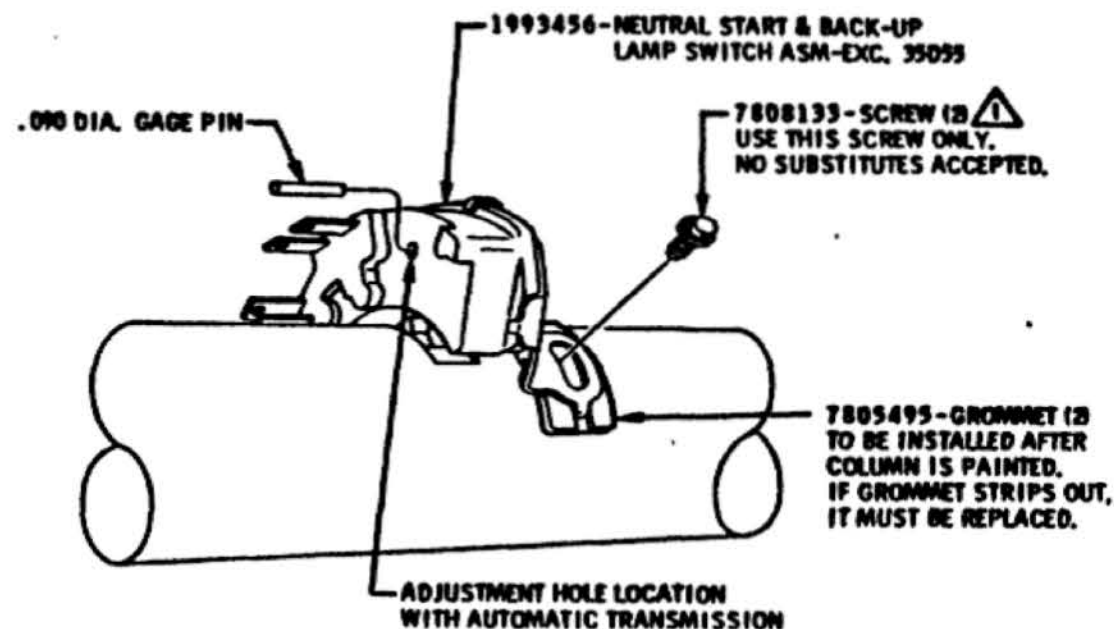
SERIES **A-B-C-E** PART NO. **401900-1-2**

**SYNCHROMESH BACK-UP
LAMP SWITCH INSTALLATION**



VIEW E
(FROM PAGE 110)
(PARTS OTHERWISE SAME AS VIEW "D")

**AUTOMATIC TRANSMISSION
NEUTRAL START & BACK-UP
LAMP SWITCH INSTALLATION**



VIEW D
(FROM PAGE 110)

SWITCH ASSEMBLY IS FIXED IN REVERSE POSITION WITH INTERNAL PLASTIC SHEAR PIN. INSTALL SWITCH ON COLUMN DRESS LINE WITH STEERING COLUMN IN LOCK POSITION. INSERT SWITCH DRIVE TANG INTO SHIFT TUBE SLOT, SWITCH BRACKET TANGS INTO PLASTIC GROMMET SLOTS, AND FASTEN WITH PROPER SCREW. AFTER INSTALLATION PLASTIC PIN IN SWITCH WILL SHEAR WHEN SHIFT LEVER IS MOVED OUT OF REVERSE POSITION.

AFTER COLUMN IS INSTALLED IN CAR AND SHIFT LINKAGE ADJUSTED, SWITCH AND CONTACT SUPPORT MUST PERMIT INSERTION OF .090 DIA. GAGE PIN IN REVERSE POSITION.

TO RE-INSTALL OR RE-ADJUST AFTER PLASTIC PIN IN SWITCH HAS BEEN SHEARED, ALIGN HOLE IN SWITCH AND CONTACT SUPPORT, INSERT .090 DIA. GAGE PIN AND INSTALL AS ABOVE. REMOVE GAGE PIN BEFORE MOVING SHIFT LEVER.

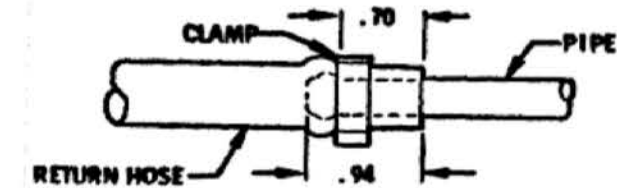
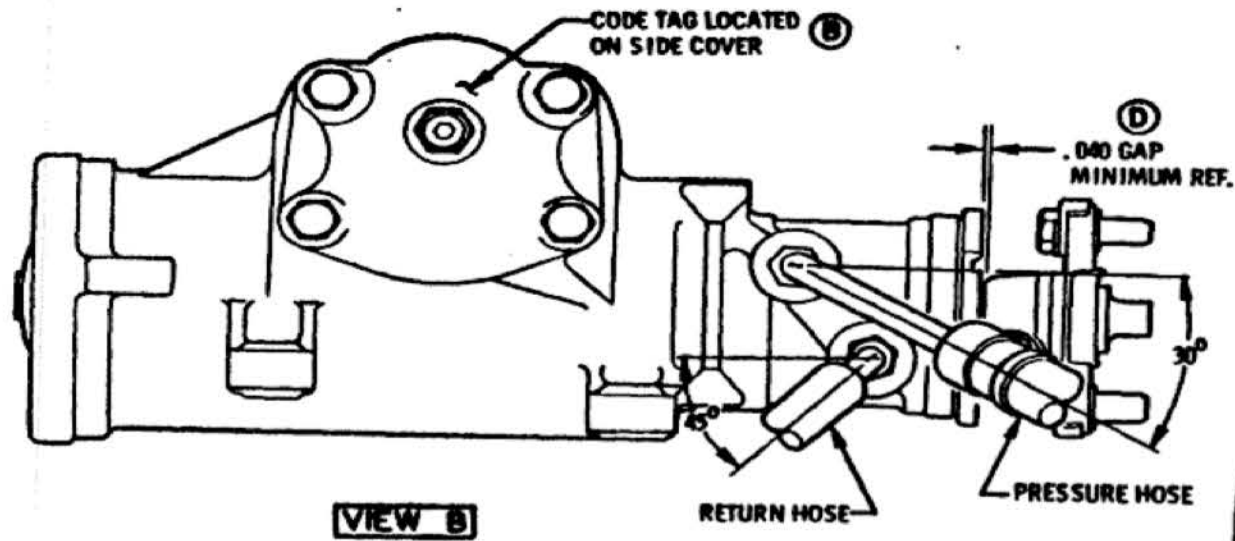
SWITCH ASSEMBLY IS FIXED IN DRIVE POSITION WITH INTERNAL PLASTIC SHEAR PIN. INSTALL SWITCH ON COLUMN DRESS LINE AFTER UPPER SHIFT LEVER IS INSTALLED. HOLD LEVER AGAINST DRIVE POSITION STOP IN STEERING COLUMN, INSERT SWITCH DRIVE TANG INTO SHIFT TUBE SLOT, SWITCH BRACKET TANGS INTO PLASTIC GROMMET SLOTS, AND FASTEN WITH PROPER SCREW. AFTER INSTALLATION PLASTIC PIN IN SWITCH WILL SHEAR WHEN UPPER SHIFT LEVER IS MOVED OUT OF DRIVE POSITION.

AFTER COLUMN IS INSTALLED IN CAR AND SHIFT LINKAGE ADJUSTED, SWITCH AND CONTACT SUPPORT MUST PERMIT INSERTION OF .090 DIA. GAGE PIN IN DRIVE POSITION.

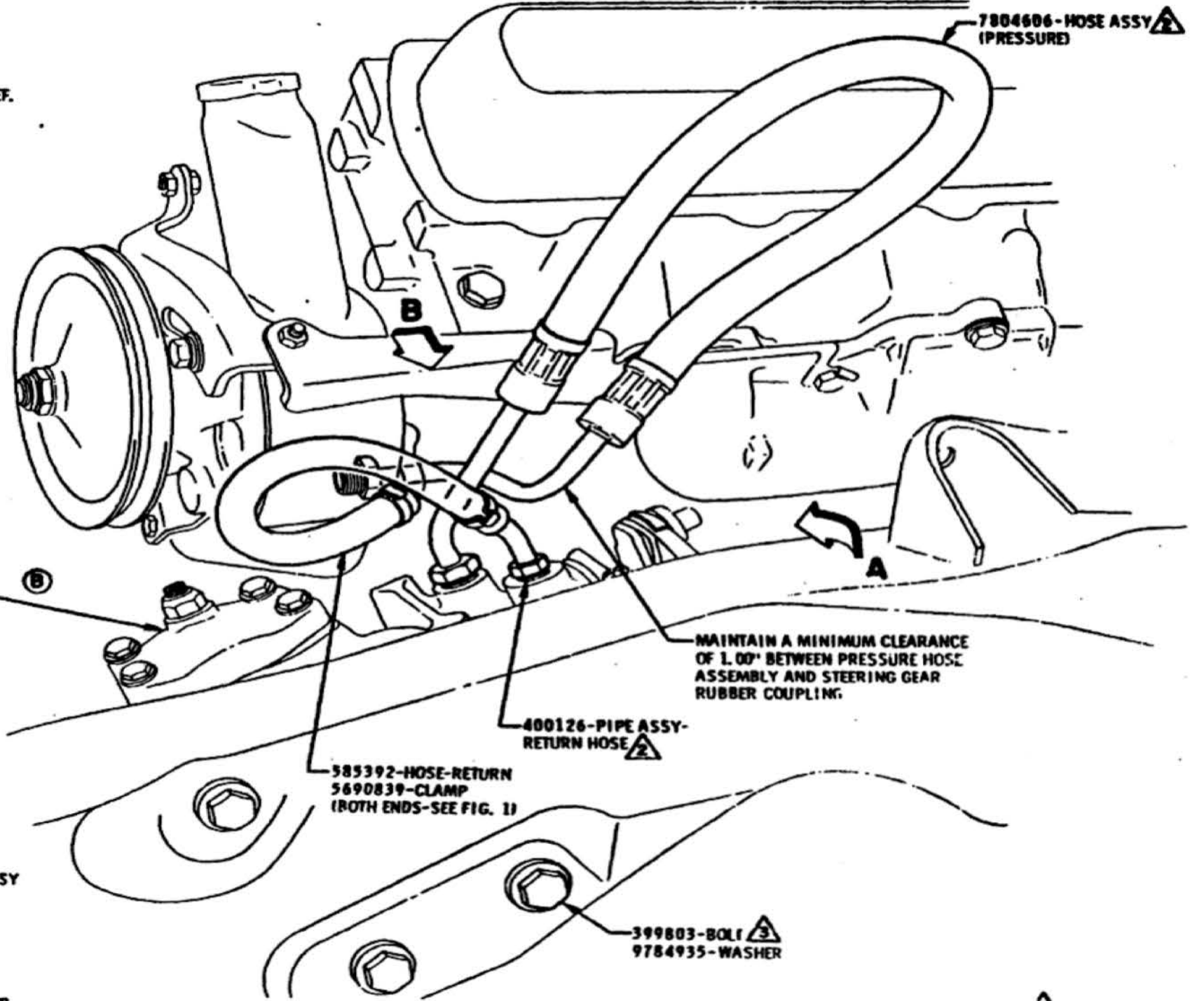
TO RE-INSTALL OR RE-ADJUST AFTER PLASTIC PIN IN SWITCH HAS BEEN SHEARED, ALIGN HOLE IN SWITCH AND CONTACT SUPPORT, INSERT .090 DIA. GAGE PIN AND INSTALL AS ABOVE. REMOVE GAGE PIN BEFORE MOVING UPPER SHIFT LEVER.

⚠ 12 - 18 LB. IN.

REV.	DATE	BY	REVISION	DR.	CK.	DATE	SYM.	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
												STEERING COLUMN DRESS	1969		9	111
			10-22-68	E				WAS 10-14 LB. IN.				DATE JAN. 8, 1968				
			10-22-68	D				WAS 7806573-SCREW				DR. BY W.E. MASON				
			10-22-68	C				GROMMET ADDED				CHECKED J. B. ...				
	11-14-68	G						REVISED & REDRAWN				APPR. J. M. ...				
	11-14-68	F						WAS 7806573 - SCREW				APPR. J. M. ...				
								INFO. MOVED TO PAGE 110				APPR. C. M. ...				
													SERIES	PART NO.		
													A-B-C-E	401900-1-2		



(C)
7802333-STEERING GEAR ASSY (MANUAL) ("DE")
5699262-STEERING GEAR ASSY (POWER) ("AA")



FOR POWER STEERING INSTALLATION AND FILL PROCEDURE, SEE CHART ON PAGE 100.

(3) 60 - 80 LB. FT.
(2) 30 - 40 LB. FT.
(1) 15 - 25 LB. FT.

				TITLE				V-8 STEERING GEAR AND HOSES				
6-13-68	D	NOTE ADDED		DATE	JAN. 9, 1968	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	9	PAGE	125
5-11-68	C	HEAVY DUTY GEAR NO. REMOVAL		DR. BY	H. C. MASON			INFORMATION MANUAL				
5-11-68	B	CODES AND NOTE ADDED		CHECKED								
3-26-68	A	WAS 780252B		APPR.								
								REV.	SECT.	A	PART NO.	401900



SECTION 10 WHEELS AND TIRES

- 100 CHARTS**
- 110 WHEEL AND TIRE ASSEMBLY**
- 115 SPARE WHEEL AND JACK STOWAGE**
- 124 35P05 WHEEL ASSEMBLY**
- 125 35N66 WHEEL ASSEMBLY**

DATE 6-17-68

MANUAL NO. 401900

SERIES A

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING - MICHIGAN

SERIES	EXPORT OPTION			DOMESTIC OR EXPORT																	STD.
	P16 & C28	P16 EXC. C28	P16 ALL	W46 ALL	PQ9 & C28	PQ9 EXC. C28	PQ9 ALL	PL5 & FE2, W31	PL5 ALL	P81 & FE2, W31	P81 ALL	P80 & C28	P80 EXC. C28	P80 ALL	P26 & C28	P26 EXC. C28	P26 ALL	N81 & FE2, W31	N81 ALL	C28 EXC. P16, P26 P80 PQ9	
33100	--	--	13	--	--	--	14	--	--	--	--	--	--	18	--	--	15	--	--	--	10
33200	--	--	13	--	--	--	14	11	--	17	--	--	--	18	--	--	15	12	--	--	10
33535	23	23	--	--	24	24	--	--	--	--	--	28	28	--	25	25	--	--	--	20	20
33539	--	--	13	--	--	--	14	--	--	--	--	--	--	18	--	--	15	--	--	--	10
33567	--	--	13	48	--	--	14	--	11	--	17	--	--	18	--	--	15	--	12	--	10
33577	--	--	13	48	--	--	14	--	11	--	17	--	--	18	--	--	15	--	12	--	10
33587	--	--	13	48	--	--	14	--	11	--	17	--	--	18	--	--	15	--	12	--	10
33635	23	23	--	--	24	24	--	--	--	--	--	28	28	--	25	25	--	--	--	20	20
33639	--	--	13	--	--	--	14	--	--	--	--	--	--	18	--	--	15	--	--	--	10
33669	--	--	13	--	--	--	14	--	--	--	--	--	--	18	--	--	15	--	--	--	10
33667	--	--	13	48	--	--	14	--	11	--	17	--	--	18	--	--	15	--	12	--	10
33677	--	--	13	48	--	--	14	--	11	--	17	--	--	18	--	--	15	--	12	--	10
33687	--	--	13	48	--	--	14	--	11	--	17	--	--	18	--	--	15	--	12	--	10
34200	--	--	13	--	--	--	14	--	--	--	--	--	--	18	--	--	15	--	--	--	10
34467	--	--	23	--	--	--	--	--	11	--	17	--	--	--	--	--	21	--	--	--	12
34477	--	--	23	--	--	--	--	--	11	--	17	--	--	--	--	--	21	--	--	--	12
34887	--	--	23	48	--	--	--	--	11	--	17	--	--	--	--	--	21	--	--	--	12
34895	33	33	--	--	34	34	--	--	--	--	--	38	38	--	35	35	--	--	--	30	30
34885	33	33	--	--	34	34	--	--	--	--	--	38	38	--	35	35	--	--	--	30	30

SPECIAL TIRES

- 11 - F70 X 14 WIDE OVAL B/W WITH WHITE RAISED LETTERS (PL5)
- 12 - F70 X 14 WIDE OVAL RED STRIPE (N81)
- 13 - 7.75 X 14 NYLON CUSTOM POWER CUSHION W/W (P16)
- 14 - 7.75 X 14 CUSTOM POWER CUSHION W/W (PQ9)
- 17 - F70 X 14 FIBERGLASS BELTED RED STRIPE (P81)
- 18 - F78 X 14 FIBERGLASS BELTED W/W (P80)
- 21 - G78 X 14 CONVENTIONAL BIAS W/S (P26)
- 23 - 8.25 X 14 NYLON CUSTOM POWER CUSHION W/W (P16)
- 24 - 8.25 X 14 CUSTOM POWER CUSHION W/W (PQ9)
- 28 - G78 X 14 FIBERGLASS BELTED W/W (P80)
- 30 - 8.55 X 14 NYLON CUSTOM POWER CUSHION W/W (P16)
- 34 - 8.55 X 14 CUSTOM POWER CUSHION W/W (PQ9)
- 38 - H78 X 14 FIBERGLASS BELTED W/W (P80)
- 48 - F60 X 15 FIBERGLASS BELTED B/W WITH RAISED WHITE LETTERS

CODE	PART NUMBERS				TIRE SIZE	WALL COLOR
	UNIROYAL	FIRESTONE	GOODRICH	GOODYEAR		
10	390881	393782	390883	390882	7.75 X 14	BLACK
11				3960611	F70 X 14	BLACK
12	3931479	3931478		3931480	F70 X 14	RED
13				397737	7.75 X 14	WHITE
14				403667	7.75 X 14	WHITE
15	3908891	3937864	3908893	3908892	7.75 X 14	WHITE
17				3950123	F70 X 14	RED
18	*	*	*	3955168	F78 X 14	WHITE
20			397403	397404	8.25 X 14	BLACK
21	9798030				G78 X 14	WHITE
23				397738	8.25 X 14	WHITE
24				403668	8.25 X 14	WHITE
25			397408	397409	8.25 X 14	WHITE
28	*	*	*	3955124	G78 X 14	WHITE
30			397418	397419	8.55 X 14	BLACK
33				397740	8.55 X 14	WHITE
34				403669	8.55 X 14	WHITE
35			397423	397424	8.55 X 14	WHITE
38	*	*	*	404417	H78 X 14	WHITE
48				405942	F60 X 15	BLACK

- INDICATES THAT THE CONDITIONS SHOWN ARE NOT AVAILABLE.
- & INDICATES TOGETHER WITH OPTION SHOWN.
- ★ PART NO. TO BE ASSIGNED AT A LATER DATE.

C28 IS DOUBLE ACTION TAIL GATE
 FE2 IS 442 SUSPENSION PACKAGE
 N81 IS WIDE OVAL RED STRIPE TIRE (F70 X 14)
 P16 IS EXPORT OPTION WHITE WALL NYLON TIRE
 P26 IS WHITE WALL TIRE
 P80 IS WHITE WALL FIBERGLASS BELTED TIRE
 P81 IS RED STRIPE FIBERGLASS BELTED TIRE
 PL5 IS BLACK WALL SUPER SPORT WIDE OVAL TIRE WITH WHITE RAISED LETTERS
 PQ9 IS WHITE WALL CUSTOM POWER CUSHION (POLYESTER) TIRE
 W31 IS CARBURETOR OUTSIDE AIR INDUCTION SYSTEM (350 CU. IN. ENGINE)
 W46 IS F60 X 15 FIBERGLASS BELTED TIRE - BLACK WALL WITH RAISED WHITE LETTERS

- WHITEWALL (P26)
- 15 - 7.75 X 14
 - 25 - 8.25 X 14
 - 35 - 8.55 X 14
- BLACKWALL (STD.)
- 10 - 7.75 X 14
 - 20 - 8.25 X 14
 - 30 - 8.55 X 14

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, 397737-8, 397740, 402093-4-5, 403665-6-7-8-9, 390434, 3950123 AND 9798030.

TITLE				CHART - TIRE USAGE		SHEET 1 OF 2	
DATE	APRIL 23 1969	PREP BY	J.E. CASLER	YEAR	1969	ENGINE	10
CHECKED	J. JAMES	REV.	1	ENGINE	A	FRONT	100
DATE	APRIL 23 1969	REV.	1	ENGINE	A	FRONT	403920

SERIES	DOMESTIC OR EXPORT																		
	P16 & C8	P16 EXC. C8	P16 ALL	W46 ALL	P18 ALL	P09 & C8	P09 EXC. C8	P09 ALL	P03 & C8	P03 EXC. C8	P03 & C80	P02 & C8	P02 EXC. C8	P02 & C80	P26 & C8	P26 EXC. C8	P26 ALL	C8 EXC. P16 P26 P27 P09	STD
30100	--	--	13	--	27	--	--	14	22	--	19	19	19	16	16	15	--	10	10
30300	--	--	13	--	27	--	--	14	22	--	19	19	19	16	16	15	--	10	10
30305	23	23	--	--	--	24	24	--	--	29	29	--	26	26	25	--	20	20	20
30359	--	--	13	--	--	--	--	14	--	--	19	19	--	16	16	15	--	10	10
30369	--	--	13	--	--	--	--	14	--	--	19	19	--	16	16	15	--	10	10
30367	--	--	13	--	27	--	--	14	22	--	19	19	--	16	16	15	--	10	10
30367	--	--	13	48	27	--	--	14	22	--	19	19	--	16	16	15	--	10	10
30229	--	--	13	--	--	--	--	14	--	--	19	19	--	16	16	15	--	10	10
30291	--	--	13	--	--	--	--	14	--	--	19	19	--	16	16	15	--	10	10
30287	--	--	13	--	27	--	--	14	22	--	19	19	--	16	16	15	--	10	10
30467	--	--	20	--	27	--	--	22	--	--	--	--	--	--	--	--	--	12	12
30477	--	--	20	48	27	--	--	22	--	--	--	--	--	--	--	--	--	12	12
30635	23	23	--	--	27	--	--	24	24	--	29	29	--	26	26	25	--	20	20
30635	23	23	--	--	27	--	--	24	24	--	29	29	--	26	26	25	--	20	20
30635	23	23	--	--	27	--	--	24	24	--	29	29	--	26	26	25	--	20	20
30635	23	23	--	--	27	--	--	24	24	--	29	29	--	26	26	25	--	20	20

CODE	PART NUMBERS				TIRE SIZE	WALL COLOR
	UNIROYAL	FIRESTONE	GOODRICH	GOODYEAR		
10	390881	393762	390883	390882	7.75 X 14	BLACK
12	393179	393178		393180	F70 X 14	RED
13				397737	7.75 X 14	WHITE
14				403667	7.75 X 14	WHITE
15	390891	393764	390893	390892	7.75 X 14	WHITE
16	3970212	3970210	3970216	3970214	F78 X 14	BLACK
19	3970213	3970211	3970217	3970215	F78 X 14	WHITE
20			397403	397404	8.25 X 14	BLACK
22		3974780		3974783	G70 X 14	BLACK
23				397738	8.25 X 14	WHITE
24				403668	8.25 X 14	WHITE
25			397408	397409	8.25 X 14	WHITE
26	3970222	3970220	3970226	3970224	G78 X 14	BLACK
27		3949125		3949127	G70 X 14	WHITE
29	3970223	3970221	3970227	3970225	G78 X 14	WHITE
30			397418	397419	8.55 X 14	BLACK
33				397140	8.55 X 14	WHITE
34				403669	8.55 X 14	WHITE
35				397423	8.55 X 14	WHITE
36	397479	397478	3974760	3974761	H78 X 14	BLACK
39	397479	397478	3974770	3974771	H78 X 14	WHITE
48				403942	F80 X 15	BLACK

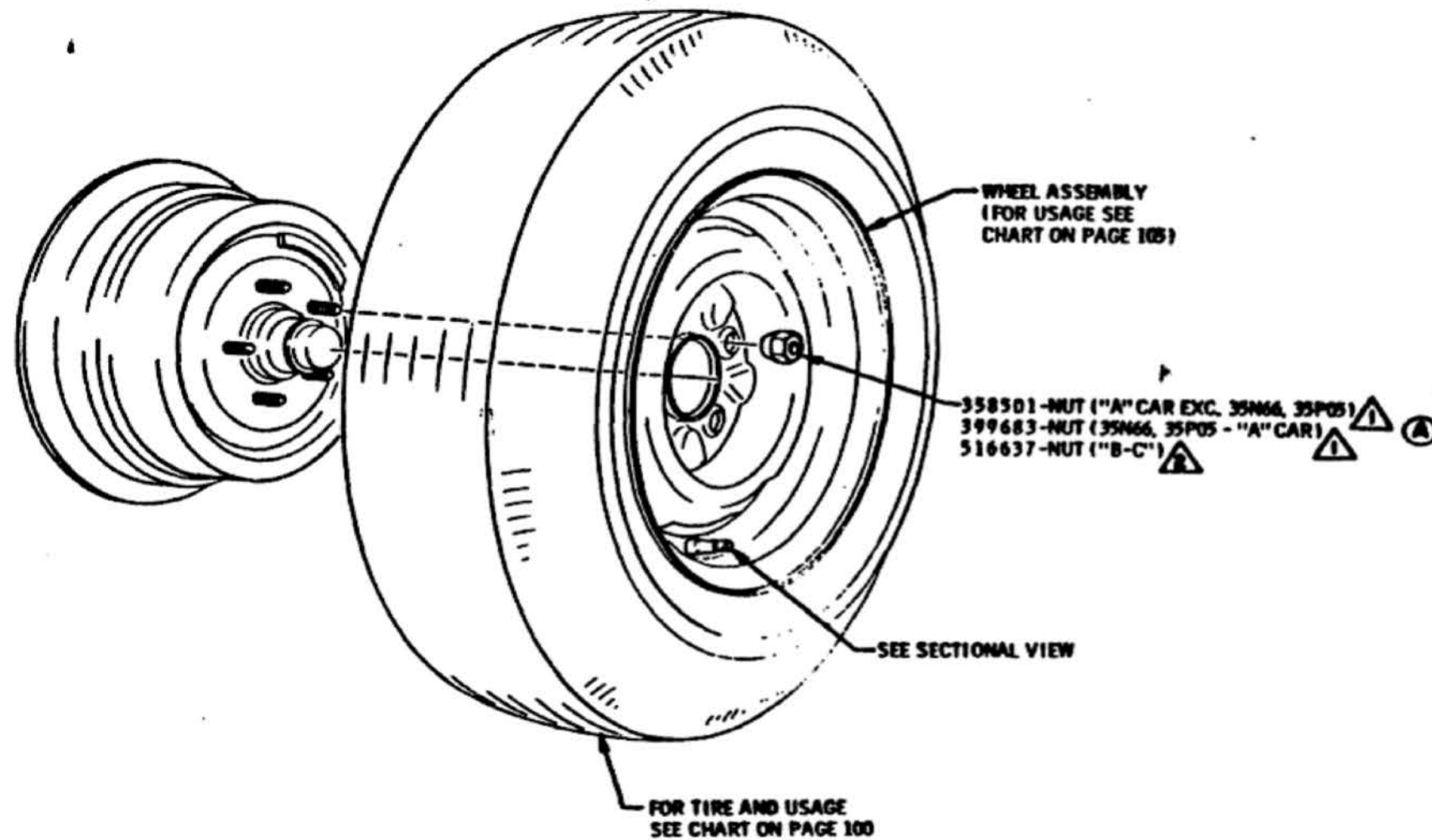
TO READ CHART:
READING CHART FROM LEFT TO RIGHT, THE FIRST OPTION REACHED THAT IS COMPLETELY SATISFIED WILL INDICATE THE TIRE CODE TO BE USED ON THAT MODEL. IF NONE OF THE CONDITIONS ABOVE ARE SATISFIED, THE LAST COLUMN IS STANDARD CAR TRES ALL OPTIONS SHOWN TO THE LEFT OF IT AND WILL INDICATE THE TIRE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

- 12 - F70 X 14 WIDE OVAL RED STRIPE (N81)
- 13 - 7.75 X 14 NYLON CUSTOM POWER CUSHION W/W (P16)
- 14 - 7.75 X 14 CUSTOM POWER CUSHION W/W (P09)
- 16 - F78 X 14 FIBERGLASS BELTED TIRE B/W (P82)
- 19 - F78 X 14 FIBERGLASS BELTED TIRE W/W (P83)
- 22 - G70 X 14 FIBERGLASS BELTED WIDE OVAL B/W WITH WHITE RAISED LETTERS (P26)
- 23 - 8.25 X 14 NYLON CUSTOM POWER CUSHION W/W (P16)
- 24 - 8.25 X 14 CUSTOM POWER CUSHION W/W (P09)
- 26 - G78 X 14 FIBERGLASS BELTED TIRE B/W (P82)
- 27 - G70 X 14 FIBERGLASS BELTED TIRE WITH WHITE STRIPE (P28)
- 29 - G78 X 14 FIBERGLASS BELTED TIRE W/W (P83)
- 33 - 8.55 X 14 NYLON CUSTOM POWER CUSHION W/W (P16)
- 34 - 8.55 X 14 CUSTOM POWER CUSHION W/W (P09)
- 36 - H78 X 14 FIBERGLASS BELTED TIRE B/W (P82)
- 39 - H78 X 14 FIBERGLASS BELTED TIRE W/W (P83)
- 48 - F80 X 15 FIBERGLASS BELTED B/W WITH RAISED WHITE LETTERS

- WHITWALL (P26)
- 15 - 7.75 X 14
- 25 - 8.25 X 14
- 35 - 8.55 X 14
- BLACKWALL (STD.)
- 10 - 7.75 X 14
- 20 - 8.25 X 14
- 30 - 8.55 X 14

Ⓐ CB IS DOUBLE ACTION TAIL GATE
 Ⓐ FEZ IS 42 SUS PENSION PACKAGE
 P16 IS EXPORT OPTION WHITE WALL NYLON TIRE
 P26 IS WHITE WALL TIRE
 P82 IS FIBERGLASS BELTED TIRE BLACK WALL
 P83 IS FIBERGLASS BELTED TIRE WHITE WALL
 P85 IS BLACK WALL SUPER SPORT WIDE OVAL TIRE WITH WHITE RAISED LETTERS
 P09 IS WHITE WALL CUSTOM POWER CUSHION (POLYESTER) TIRE
 P28 IS FIBERGLASS BELTED TIRE WHITE STRIPE
 W01 IS CARBURETOR OUTSIDE AIR INDUCTION SYSTEM (SO. CL. IN. ENGINE)
 W46 IS F80 X 15 FIBERGLASS BELTED TIRE - BLACK WALL WITH RAISED WHITE LETTERS
 - INDICATES THAT THE CONDITIONS SHOWN ARE NOT AVAILABLE
 & INDICATES TOGETHER WITH OPTION SHOWN

DATE		SYM		REVISION		DATE		SYM		REVISION		DATE		SYM		REVISION		DATE		SYM		REVISION	
TITLE												CHART - TIRE USAGE											
DATE <u>MAR. 12, 1969</u>												FIRST USED											
DR. BY <u>J. ACKERT</u>												1969											
CHECKED <u>John F. ...</u>												OLDSMOBILE PRODUCT INFORMATION MANUAL											
APPR. <u>J. ...</u>												SERIES <u>A</u>											
												PART NO. <u>403920</u>											
												MANUAL NO. <u>10</u>											
												PAGE <u>101</u>											
												SHEET ?											



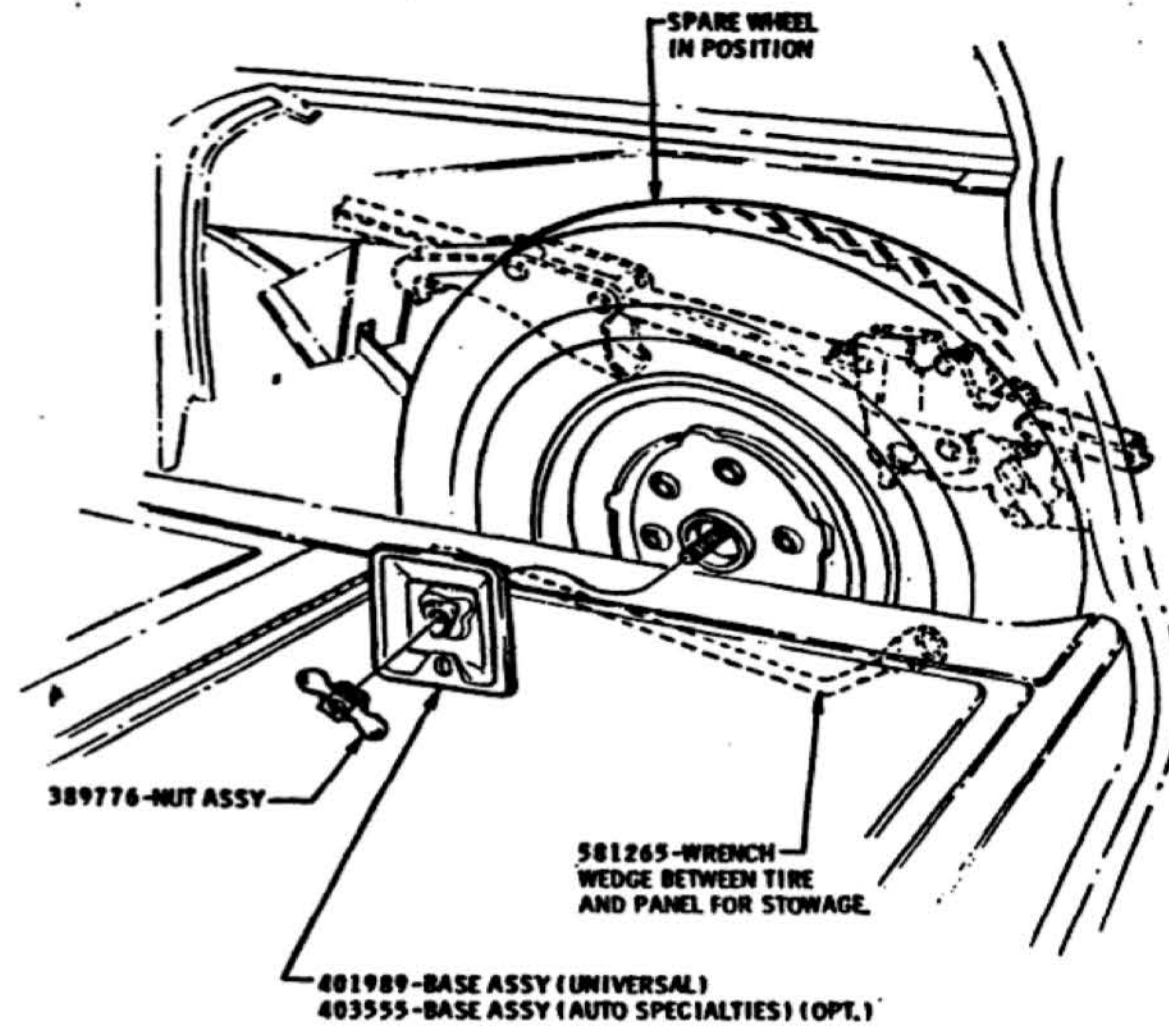
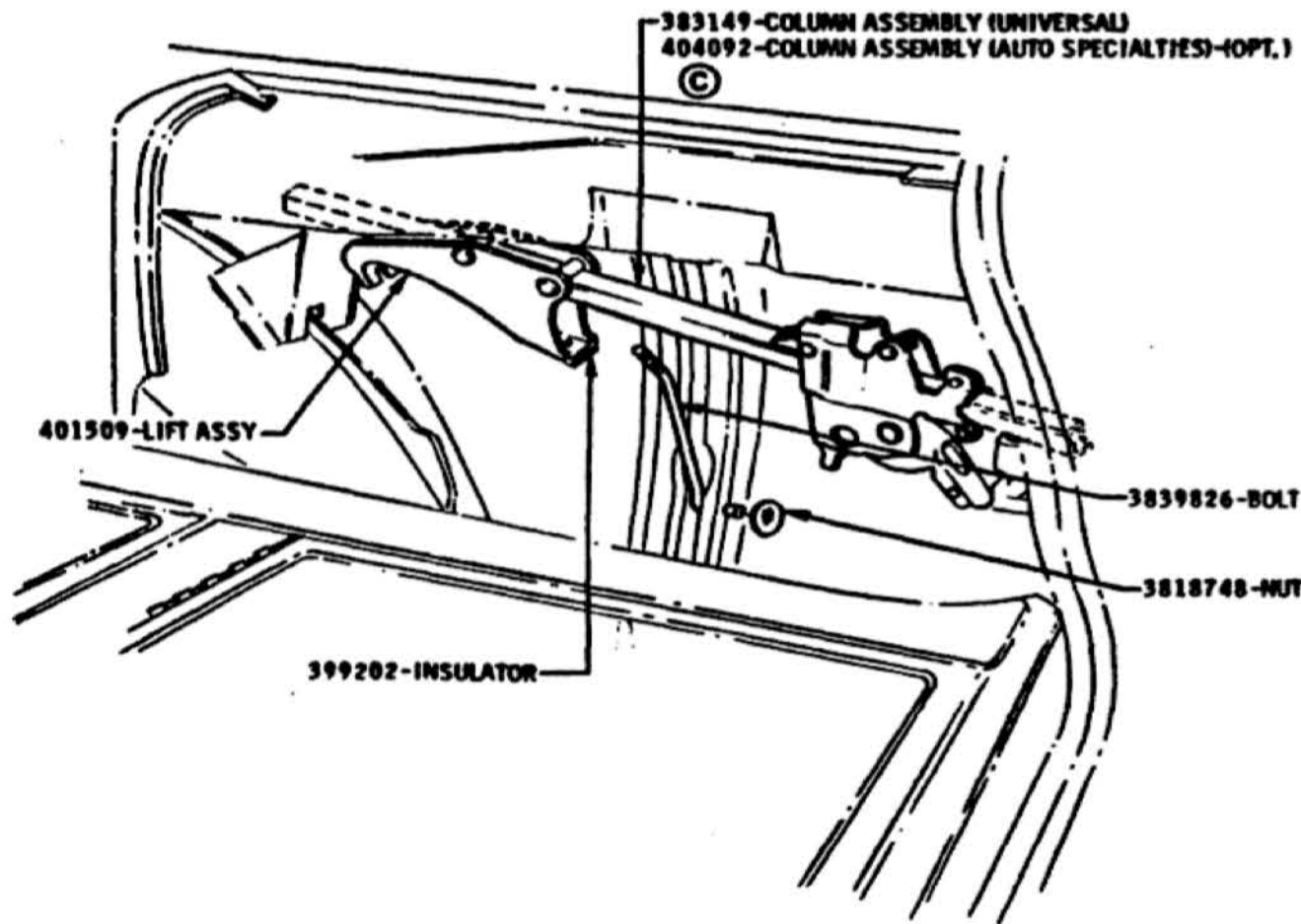
STATIC BALANCE WEIGHTS UP TO & INCLUDING 3 OZ. TO BE INSTALLED ON EITHER RIM FLANGE. ABOVE 3 OZ. THE ADDITIONAL WEIGHT TO BE ADDED TO OPPOSITE RIM FLANGE. 3 OZ. MAXIMUM WEIGHT PER WHEEL.

ASSEMBLY INSTRUCTIONS - TIRE TO WHEEL -

1. LUBRICATE TIRE BEADS AND VALVE STEM ASSEMBLY WITH 9985005 LUBRICANT.
2. IMMEDIATELY ASSEMBLE VALVE STEM AND TIRE TO WHEEL AND INFLATE TO 24-50 P. S. I. INSTALLATION MUST BE MADE BEFORE LUBRICANT IS DRY.
3. BLACK SIDEWALL TIRES TO BE MOUNTED WITH MANUFACTURING INFORMATION TOWARD CENTERLINE OF CAR.
4. WHEEL AND TIRE ASSY TO BE BALANCED TO WITHIN 4 IN. OZ.
5. RUNOUT OF WHEEL AND TIRE ASSY:
.060 T. I. R. RADIAL MAX.
.085 T. I. R. LATERAL MAX.

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

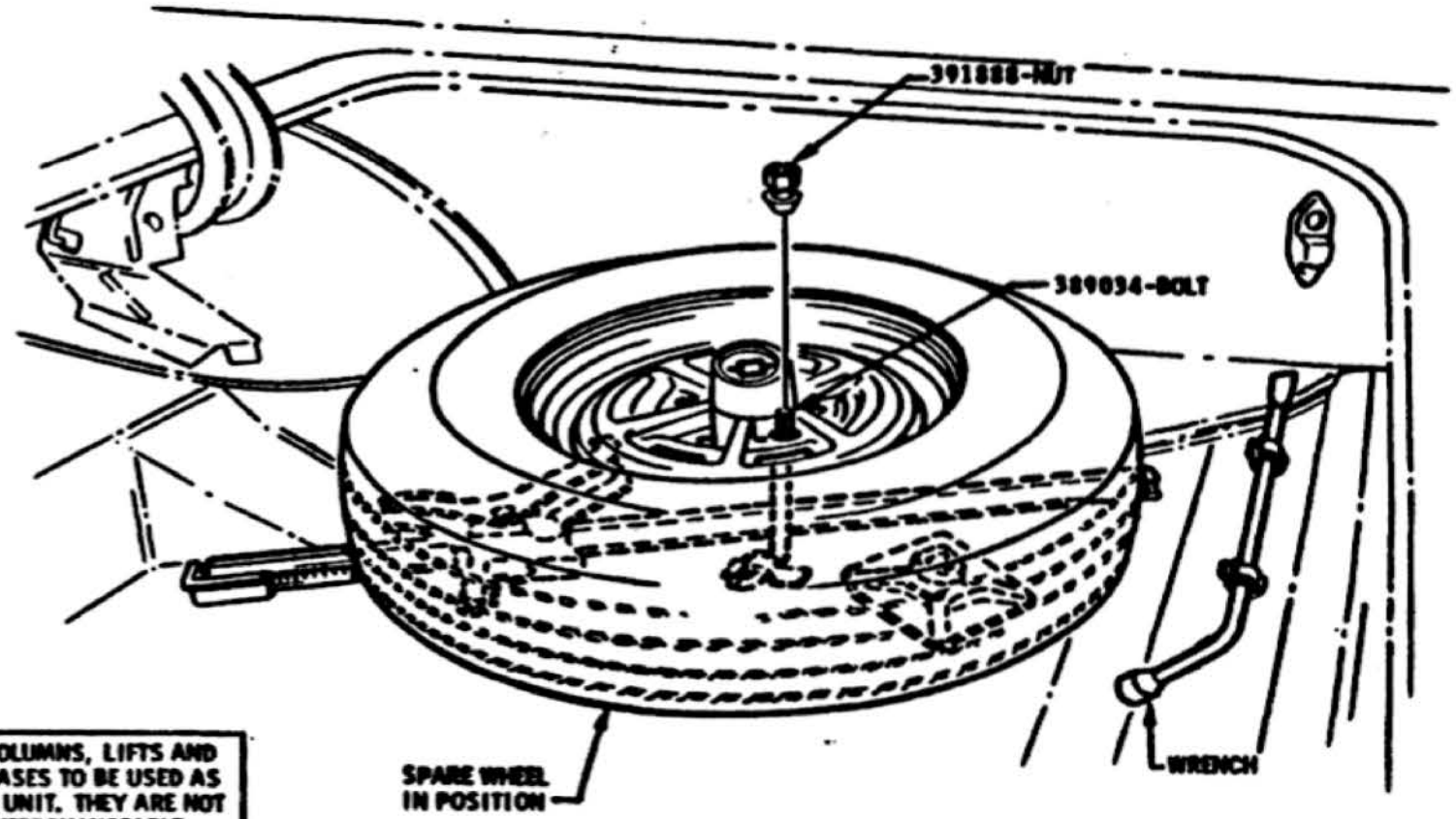
					TITLE		WHEEL & TIRE ASSY			
					DATE		MARCH 2, 1968		FIRST USED	
					DR. BY		130YLR		1969	
					CHECKED		MTC		OLDSMOBILE PRODUCT	
					8-548 A		35N66 ADDED		INFORMATION MANUAL	
					DR. CK.		3/16/68		MANUAL SEC.	
					DATE		3/16/68		10	
					SYM				PAGE	
					REVISION				110	
					DR. CK.				REF.	
					DATE				108 35P05	
					SYM				SERIES	
					REVISION				A-B-C	
					DR. CK.				PART NO.	
					DATE				401900-1	
					SYM					



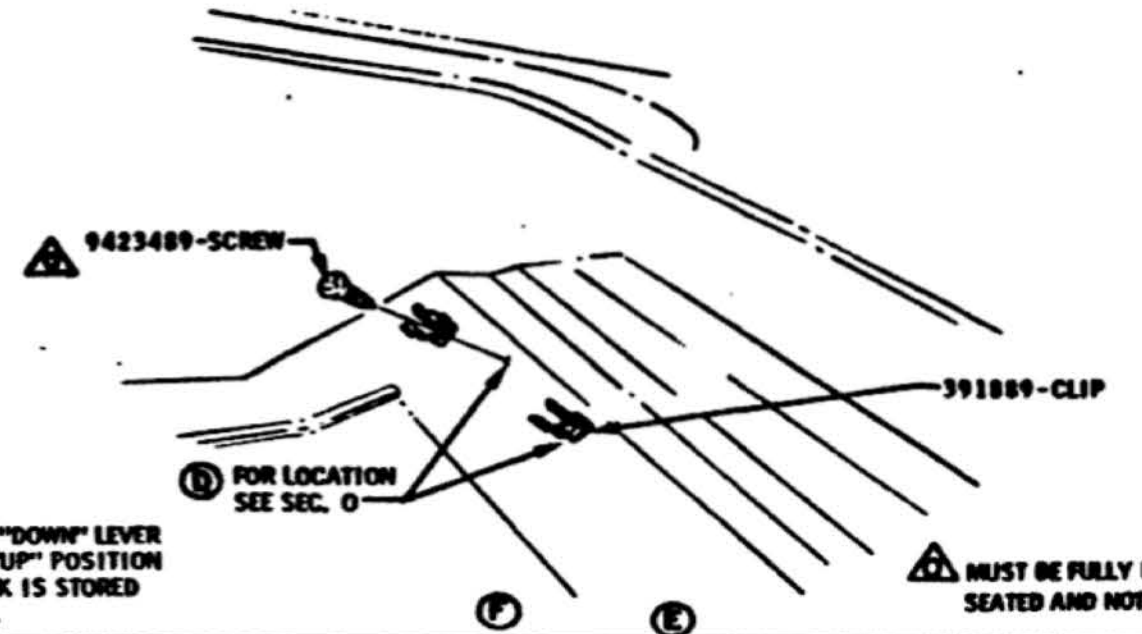
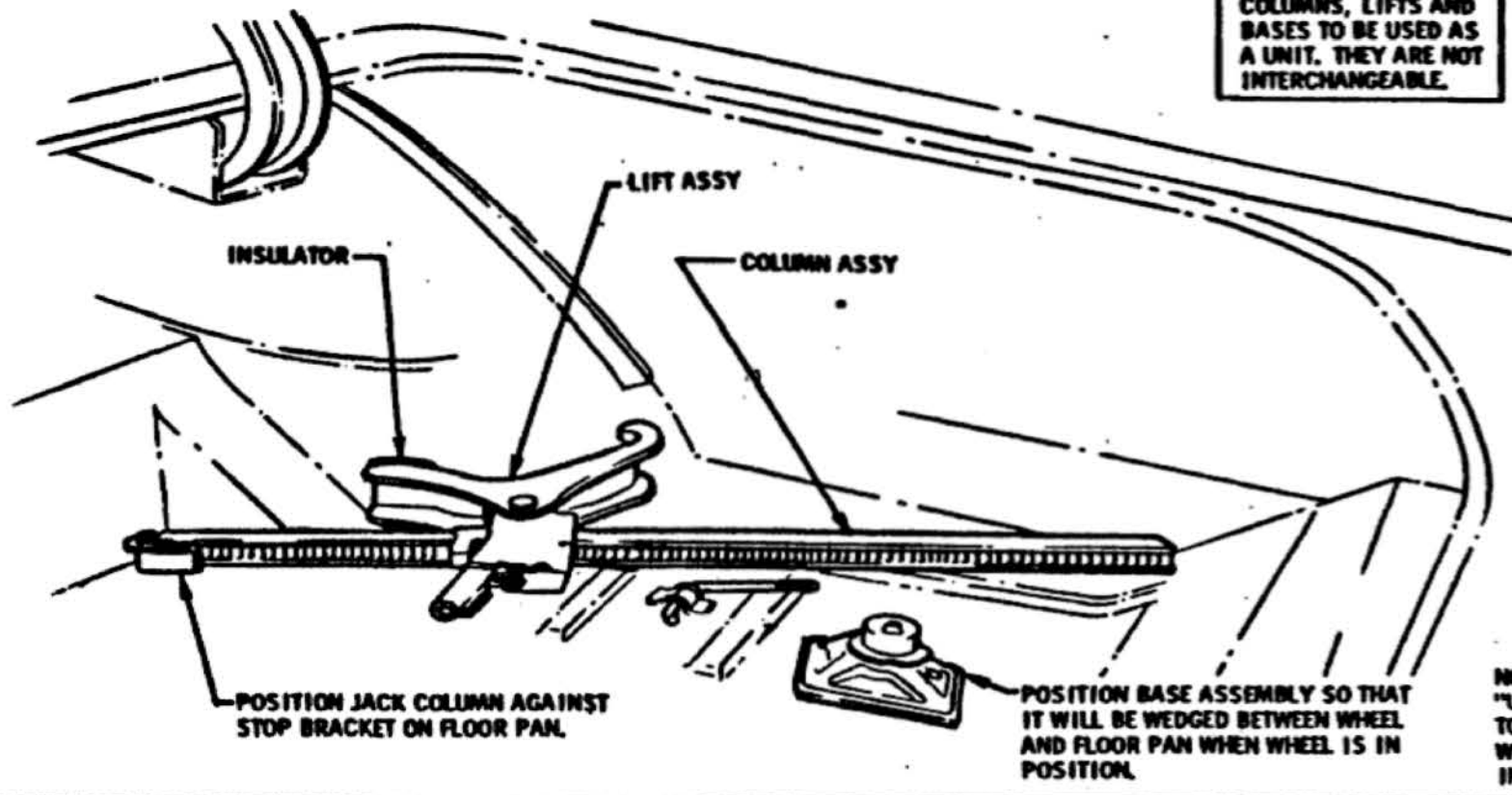
NOTE: "UP" & "DOWN" LEVER
ON JACK ASSY TO BE IN "UP"
POSITION WHEN JACK IS
STORED.

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
																SPARE WHEEL AND JACK-STORAGE (STATION WAGON)	1969		10	116
5-20-68	C	WAS 401830-COL. ASM	BP	PT						FEB. 19, 1969										
5-15-68	D	REVISED & REDRAWN	BP	PT																
3-6-68	A	WAS 570002-BASE ASSY	BP	PT																
																	REF. 10E 14E	SERIES A	PART NO. 401900	

BALANCE OF PARTS SAME AS STANDARD
CAR. PART NUMBERS ARE SHOWN ON PAGE 115

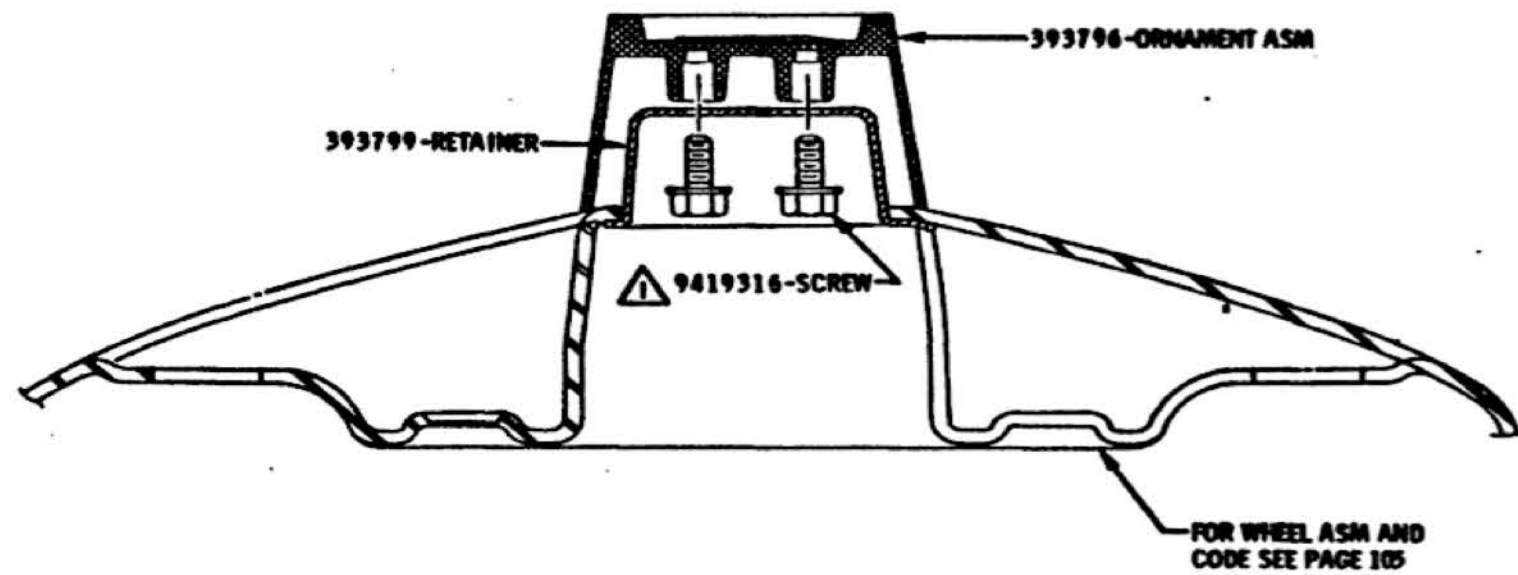


COLUMNS, LIFTS AND
BASES TO BE USED AS
A UNIT. THEY ARE NOT
INTERCHANGEABLE.



NOTE:
"UP" AND "DOWN" LEVER
TO BE IN "UP" POSITION
WHEN JACK IS STORED
IN TRUNK.

				2-12-69 E TITLE REVISED		80 PTS	TITLE CUSTOM TRIM WHEEL AND JACK STORAGE (35P05, 35N66)			
				11-5-68 D WRENCH CLIPS RELOCATED		17 PTS	DATE FEB 12 1969	FIRST USED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. PAGE 10 117
				10-15-68 C WAS 9423489-SCREW		8 PTS	DR. BY B. PARKER			
				7-16-68 B N66 ADDED TO TITLE		15 PTS	CHECKED J. J. J.			
				8-17-68 A REDRAWN & REVISED		15 PTS	APPR. E. J. J.	REF. NO. 35000	SERIES A	PART NO. 401900
325-69 F TITLE REVISED				8-17-68 A REDRAWN & REVISED		15 PTS	DATE 2-12-69			



△ 60-90 LB. IN.

										TITLE		35P05 WHEEL ASSEMBLY		MANUAL SEC.		PAGE	
										DATE		JUNE 6, 1968		FIRST USED		1969	
										DR. BY		Pete Locatelli		OLDSMOBILE PRODUCT		INFORMATION MANUAL	
										CHECKED		JOE V. GALL		SERIES		A	
										APPR.		J. J. [Signature]		REF.		35P05	
										PART NO.		401900					



SECTION 11 SHEET METAL

100	CHARTS
110	FRONT BULK HEAD COMPONENTS
125	FILLER PLATE COMPONENTS
130	FENDER COMPONENTS
140	SHEET METAL
150	EXTERIOR ORNAMENTATION
180	HOOD COMPONENTS
190	SHEET METAL CLEARANCES
500	AIR INDUCTION SYSTEM

OLDSMOBILE DIVISION

GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

(1) THE FOLLOWING TABLE SHOWS THE AMOUNT OF 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.
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.
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.
ALL 400 CU. IN. A/C OR V01	16.5 QTS.	17.2 QTS.	-20° F.	44.0	7.25 QTS.	7.57 QTS.
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 SPECIFICATION #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 AND MATERIALS

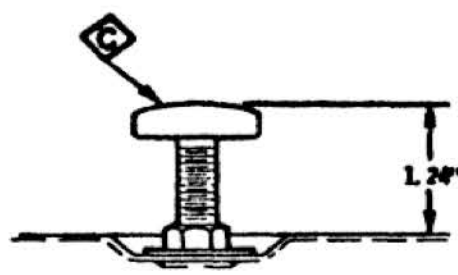
WYANDOTTE CHEMICAL	SINGLE PHASE U-2407-CW
UNION CARBIDE	G300
JEFFERSON CHEMICAL	JCS7
DUPONT	M29
OLIN-MATHIESON	OM-91D
DOW CHEMICAL	D-566-100
WYANDOTTE	U-3034 CW
DOW CHEMICAL	725
MINERAL INDUSTRIES, INC.	#101
HOUSTON CHEMICAL CORP.	#700-BC-20

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.
- 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.

TITLE										CHART - COOLING SYSTEM FILL			
DATE	JAN 17 1968			FIRST USED	1969			OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE			
DR. BY	J. E. CASLER			REF.				SERIES	PART NO.				
CHECKED	J. Pines			REF.				A	402975				
APPR.				APPR.									
DATE	SYN	DR.	CK.	DATE	SYN	DR.	CK.	DATE	SYN	DR.	CK.		



APPROXIMATE BUMPER HEIGHT BEFORE ADJUSTMENT

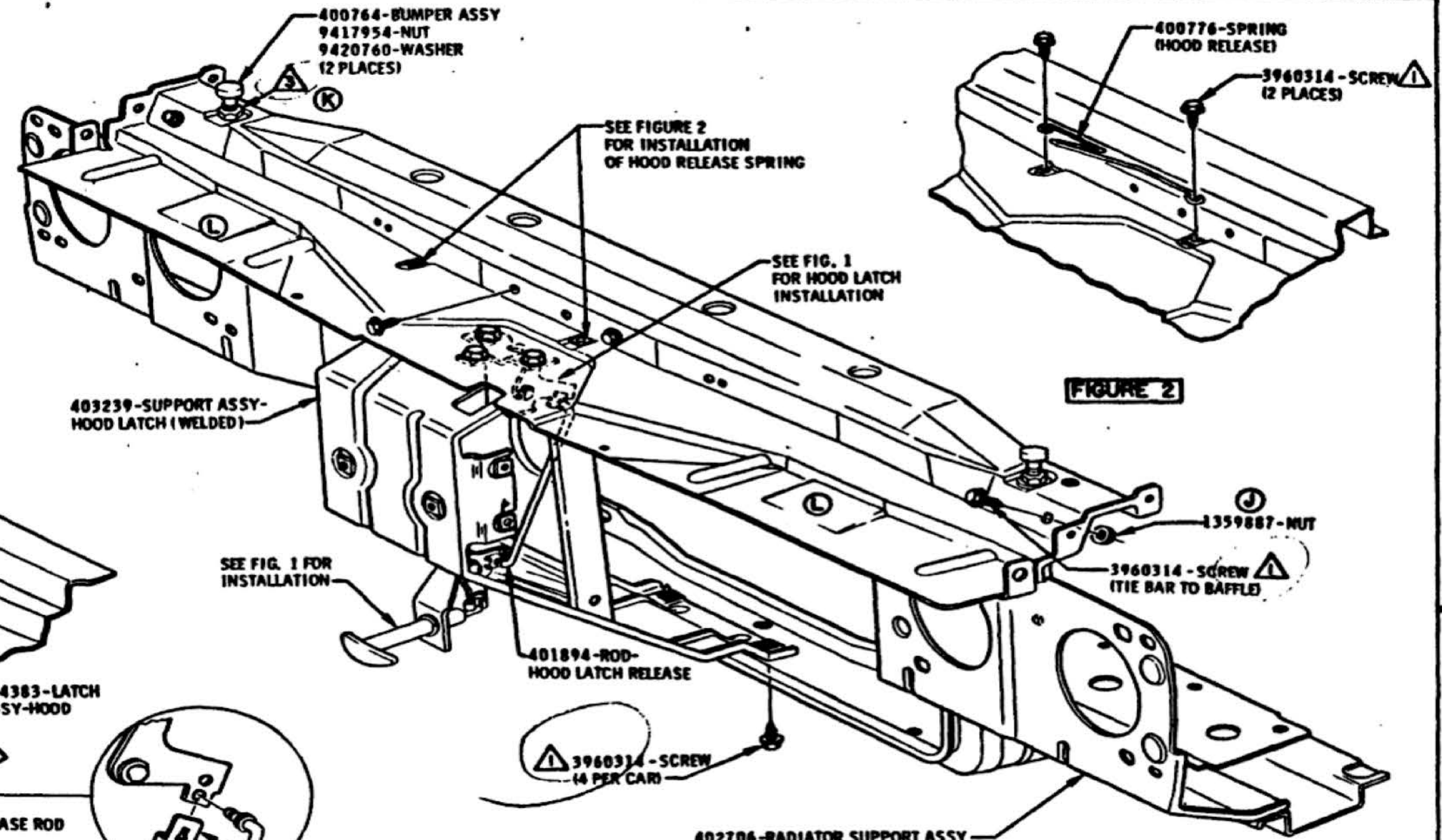


FIGURE 2

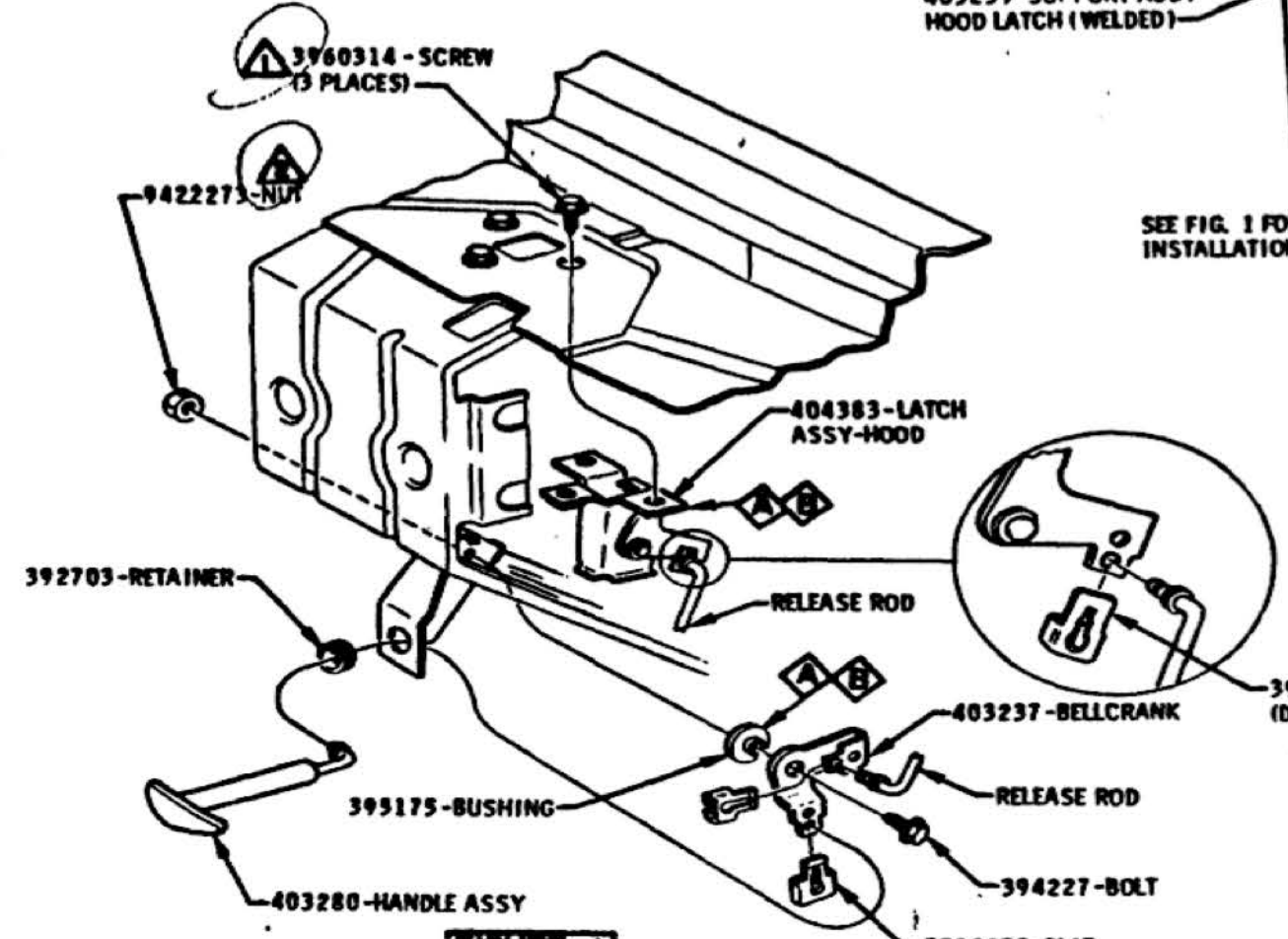


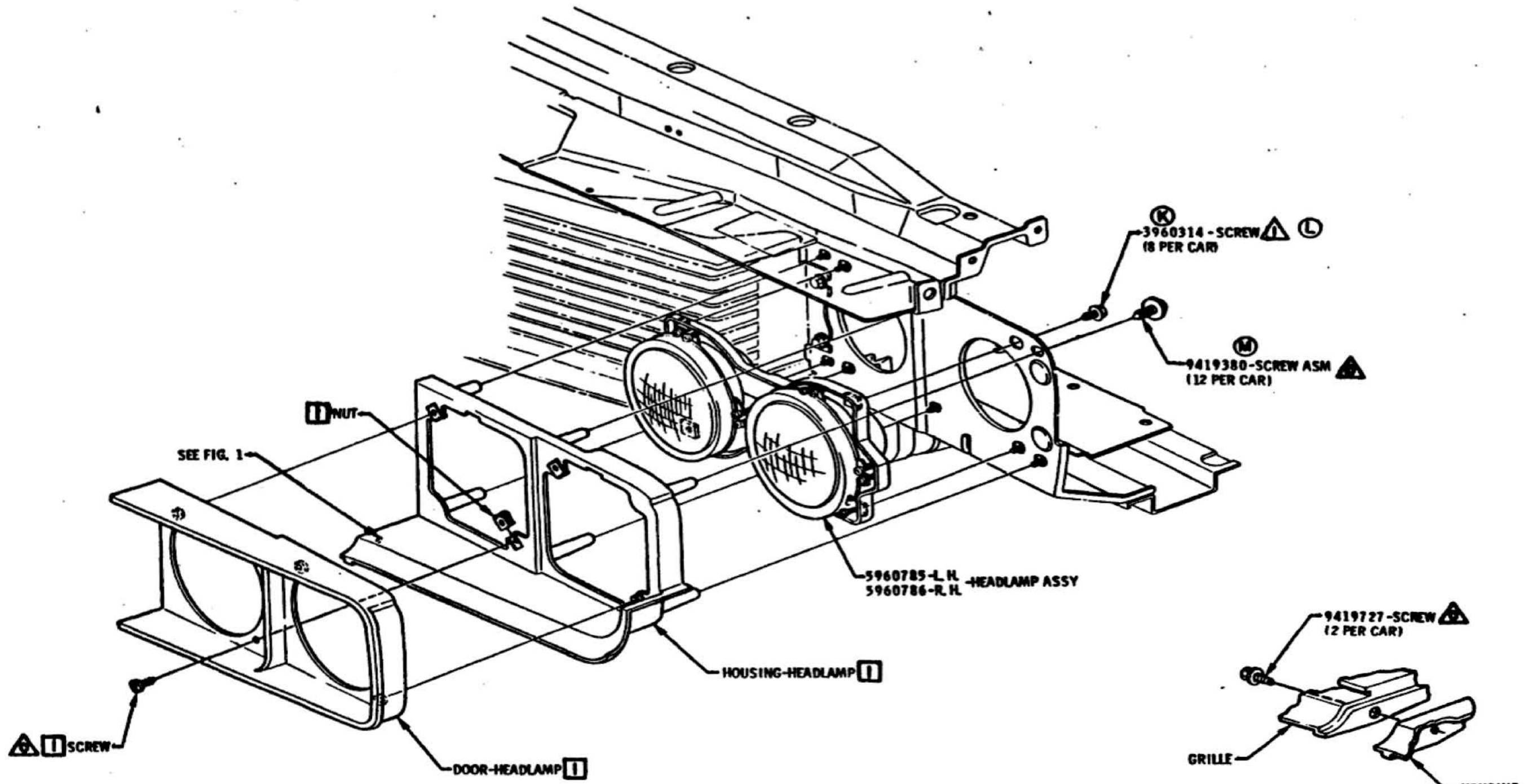
FIGURE 1

- C** 9981117-LUBRICANT (APPLY TO TOP SURFACE)
- B** 9985002-LUBRICANT (APPLY AFTER ASSY)
- A** 9985164-LUBRICANT (APPLY TO ALL MOVING PARTS PRIOR TO ASSY)

- 3** 10 - 15 LB. FT.
- 2** 40 - 60 LB. IN.
- 1** 15 - 22 LB. FT.

402706-RADIATOR SUPPORT ASSY (16) (350 CU. IN. ENG. EXC. 35V01 OR 35Y72) (400 CU. IN. ENG. EXC. 35C60, 35V01 OR 35Y72)
 402707-RADIATOR SUPPORT ASSY (350 CU. IN. ENG. WITH 35V01 OR 35Y72) (400 CU. IN. ENG. WITH 35C60, 35V01 OR 35Y72)

DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	TITLE	DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	SERIES	PART NO.
					9-24-68	K	TORQUE REVISED	PL	PTS	8-2-68	E	WAS 402266 LATCH ASSY	PL	DT				RADIATOR SUPPORT ASSEMBLY	DECEMBER 19, 1967	1969	11	110	A	401900	
					9-24-68	J	WAS 390617 + 392762	PL	PTS	7-15-68	D	SCREW ADDED	PL	PTS					DR. BY JOSEPH V. GALL						
					8/14/68	M	WAS 9780422	WA	PTS	5-28-68	C	REDRAWN & REVISED	PL	PTS					CHECKED <i>[Signature]</i>						
					8-15-68	G	NUT ADDED	PL	PTS	3-19-68	B	REVISED TO DETAIL	PL	PTS											
10-1-68	L	REVISED TO DETAIL	PL	PTS	8-15-68	F	BACKGROUND REVISED	PL	PTS	2-16-68	A ₂	PART NO'S. ADDED	PL	PTS					APPR. <i>[Signature]</i>	110	112				
																			APPR. <i>[Signature]</i>						

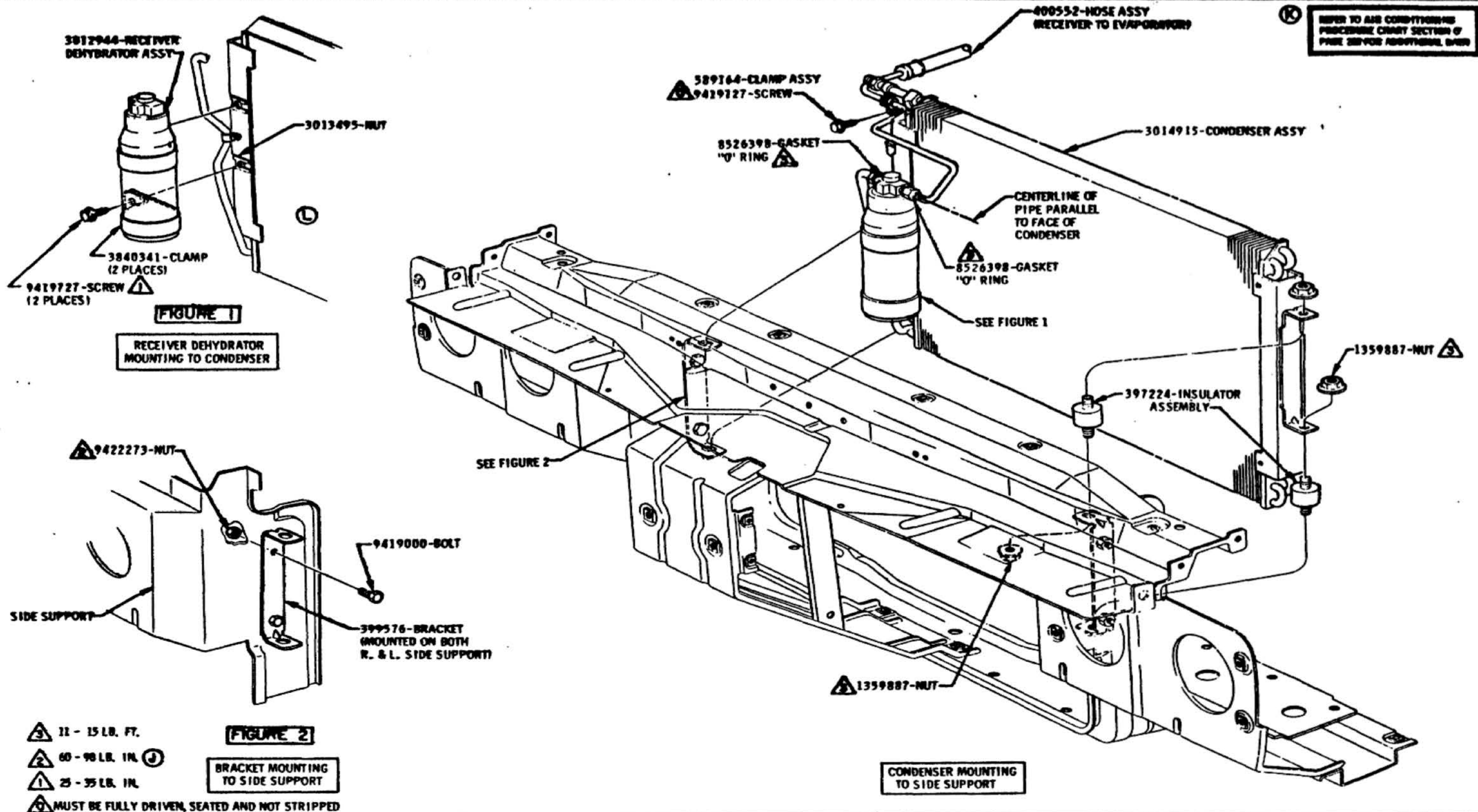


⚠ 15-22 LB. FT.
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

Ⓛ PART OF HOUSING ASSEMBLIES
404285-L.H. (SHOWN)
404284-R.H. (OPPOSITE)

FIGURE 1

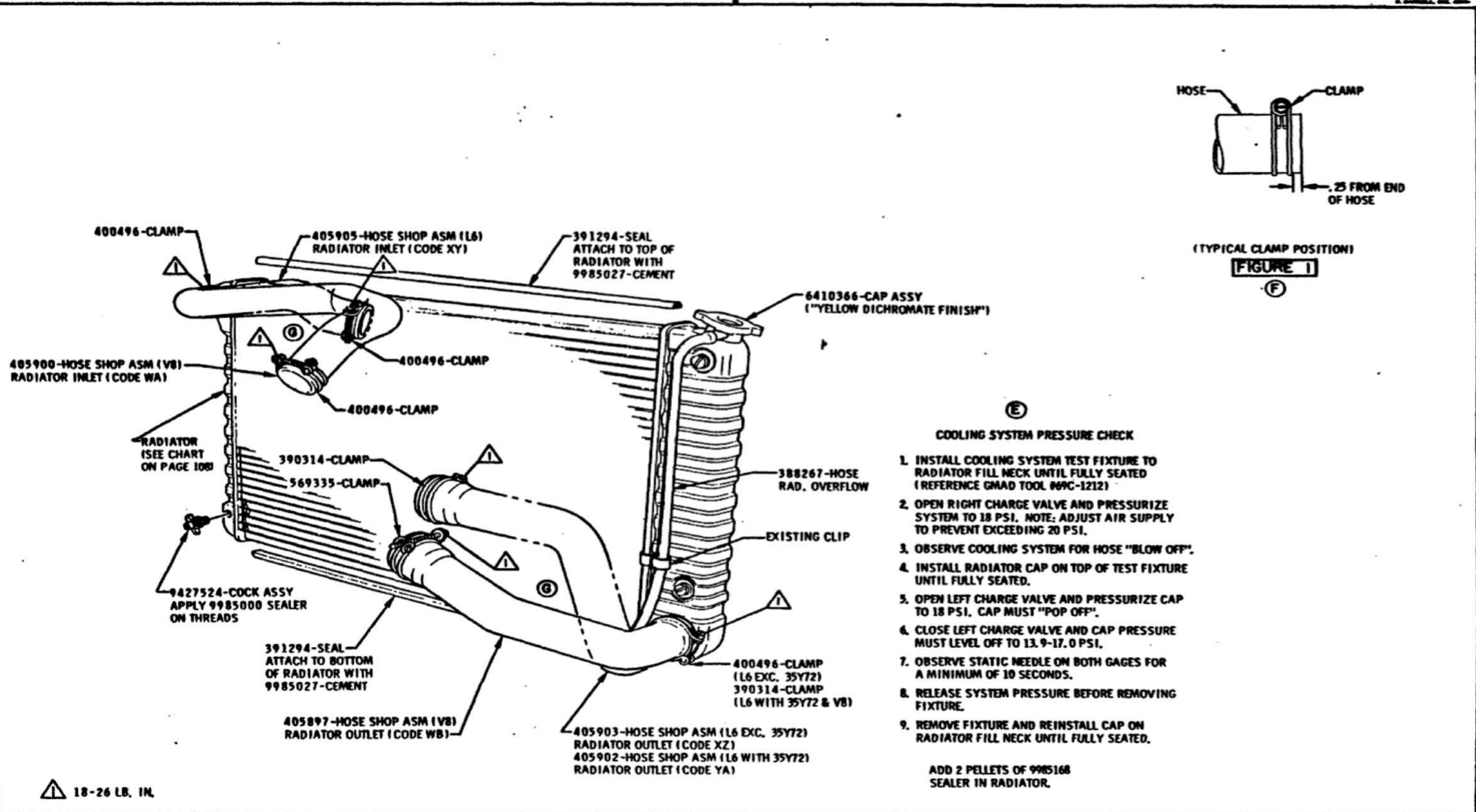
		8/24/68 K WAS 9780422		11/27/68 E WAS 445433-NUT		TITLE		HEADLAMP ASSY, HOUSING AND HEADLAMP DOORS	
		8/13/68 J	FASTENING REVISED	PL	5/29/68 D	REVISED TO DETAIL	PL	DATE	FEBRUARY 13, 1968
		7/30/68 H	WAS 9422037-SCREW	PL	5/29/68 C	WASHER ADDED	PL	DR. BY	GMP JOSEPH V. GRI
4-21-69 M	WAS 9427111-SCREW ASM.	7/30/68 G	NOTE ADDED	PL	4-23-68 B	TITLE ADDED	PL	CHECKED	WJE
9-6-68 L	TORQUE REVISED	11/27/68 F	WAS 9419274-WASHER	PL	3-8-68 A2	PART NOS. REVISED	PL	APPR.	WJE
								FIRST USED	1969
								REF. 12C	
								13C	
								OLDSMOBILE PRODUCT	MANUAL SEC. PAGE
								INFORMATION MANUAL	11 113
								SERIES	A
								PART NO.	401900



REFER TO AIR CONDITIONING PROCEDURE CHART SECTION OF PAGE 281 FOR ADDITIONAL DATA

- ③ 11 - 15 LB. FT.
- ② 60 - 90 LB. IN. ③
- ① 25 - 35 LB. IN.
- ⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

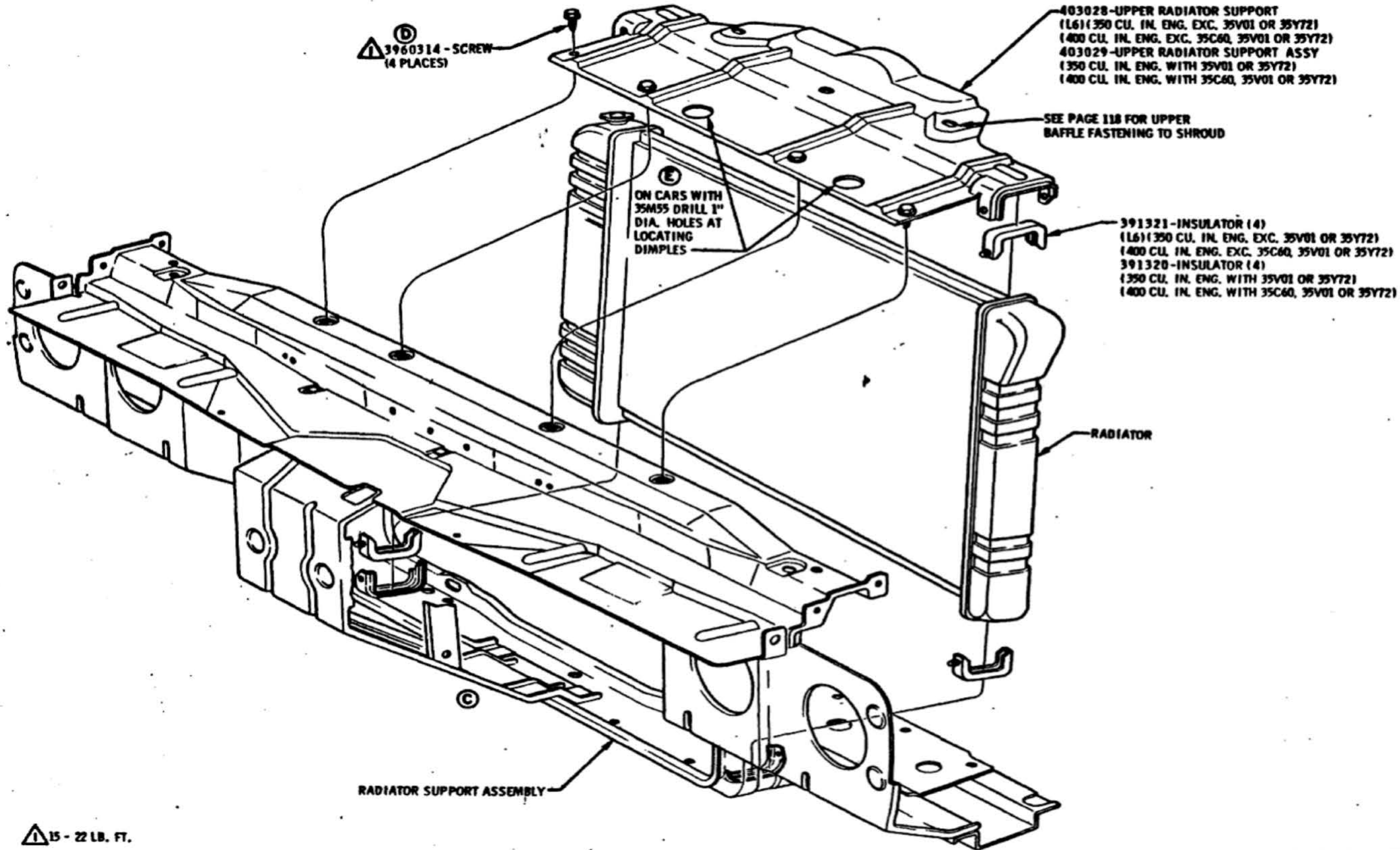
REVISIONS				REVISIONS				GENERAL INFORMATION				
DATE	BY	REASON	PL	DT	BY	REASON	PL	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
1-30-69	K	NOTE ADDED	PL	DT	10-31-68	E	NOTE ADDED	CONDENSER & SUPPORTS - RECEIVER DEHYDRATOR	1969	11	115	
12-11-68	J	WAS 60-69 LB. IN.	PL	DT	9-9-68	D	WAS 9419565 - BOLT	DATE FEBRUARY 9, 1968	REF. 35C 60			
12-11-68	H	WAS 405025 - CLAMP	PL	DT	6-18-68	C2	TORQUE REVISED	DR BY P. Locatelli				
11-20-68	G	WAS 3840341 - CLAMP	PL	DT	5-28-68	B	BACKGROUND REVISED	CHECKED M. J. Lambert				
3-24-69	L	NOTE REMOVED	PL	DT	10-31-68	F	HOSE ADDED	APPR. T.M.F.				



⚠ 18-26 LB. IN.

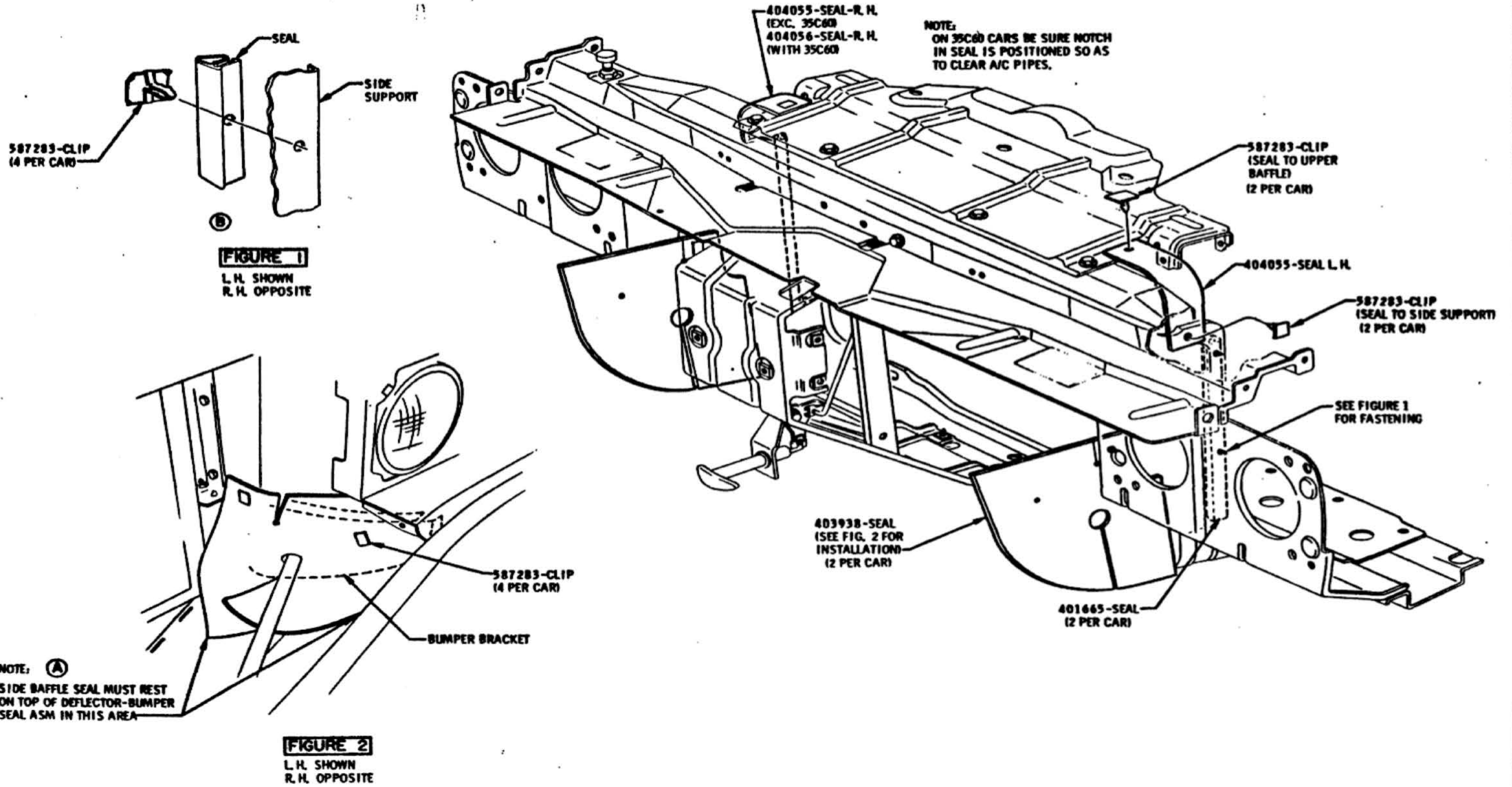
- (E)
COOLING SYSTEM PRESSURE CHECK
1. INSTALL COOLING SYSTEM TEST FIXTURE TO RADIATOR FILL NECK UNTIL FULLY SEATED (REFERENCE GMAD TOOL #69C-1212)
 2. OPEN RIGHT CHARGE VALVE AND PRESSURIZE SYSTEM TO 18 PSI. NOTE: ADJUST AIR SUPPLY TO PREVENT EXCEEDING 20 PSI.
 3. OBSERVE COOLING SYSTEM FOR HOSE "BLOW OFF".
 4. INSTALL RADIATOR CAP ON TOP OF TEST FIXTURE UNTIL FULLY SEATED.
 5. OPEN LEFT CHARGE VALVE AND PRESSURIZE CAP TO 18 PSI. CAP MUST "POP OFF".
 6. CLOSE LEFT CHARGE VALVE AND CAP PRESSURE MUST LEVEL OFF TO 13.9-17.0 PSI.
 7. OBSERVE STATIC NEEDLE ON BOTH GAGES FOR A MINIMUM OF 10 SECONDS.
 8. RELEASE SYSTEM PRESSURE BEFORE REMOVING FIXTURE.
 9. REMOVE FIXTURE AND REINSTALL CAP ON RADIATOR FILL NECK UNTIL FULLY SEATED.
- ADD 2 PELLETS OF 9985168 SEALER IN RADIATOR.

				10-1-68	E	NOTE REVISED	1/6	PYS	TITLE	RADIATOR DRESS	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
				9-24-68	D	402808-HOSE SHOP ASM, ADD.	1/6	PYS	DATE	FEBRUARY 2, 1968	1969		11	116
				3-29-48	C	NOTE REVISED	1/6	DT	DR. BY	JOSEPH V. GALL				
				3-18-48	B	NOTE REVISED	1/6	DT	CHECKED	NTS				
				2-21-48	A	IDENTIFICATION ADDED	1/6	PYS	APPR.	SCHOTT	REF. 6A 2	SERIES		
											13A LNK			
												A		401900



⚠ 15 - 22 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 SEC.	PAGE	PART NO.
					12-11-68	E	NOTE ADDED	PL	PTS						RADIATOR AND UPPER SUPPORT					
					8/1/68	D	WAS 9780422	PL	PTS						DATE FEBRUARY 12, 1969	1969		11	117	
					5-28-68	C	BACKGROUND REVISED	PL	PTS						DR. BY JOSEPH V. GALL					
					3-19-68	B	REVISED TO DETAIL	PL	PTS						CHECKED <i>[Signature]</i>					
					3-11-68	A	UPPER SUPPORT REVISED	PL	PTS						APPR. <i>[Signature]</i>	REF. 15B 35C60, V01, Y72	SERIES A			401900
															APPR. <i>[Signature]</i> 2/13/69					



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
																1969		11	120
																REV. 13A	SERIES	PART NO.	
																	A	401900	

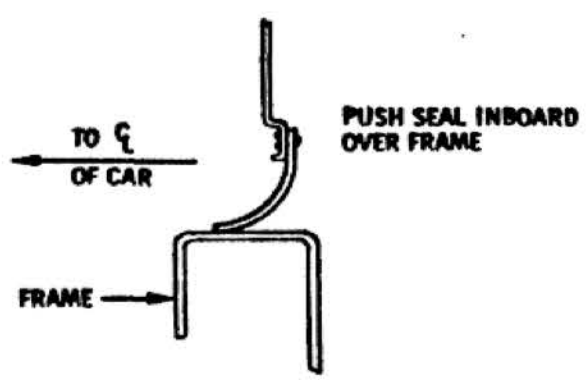
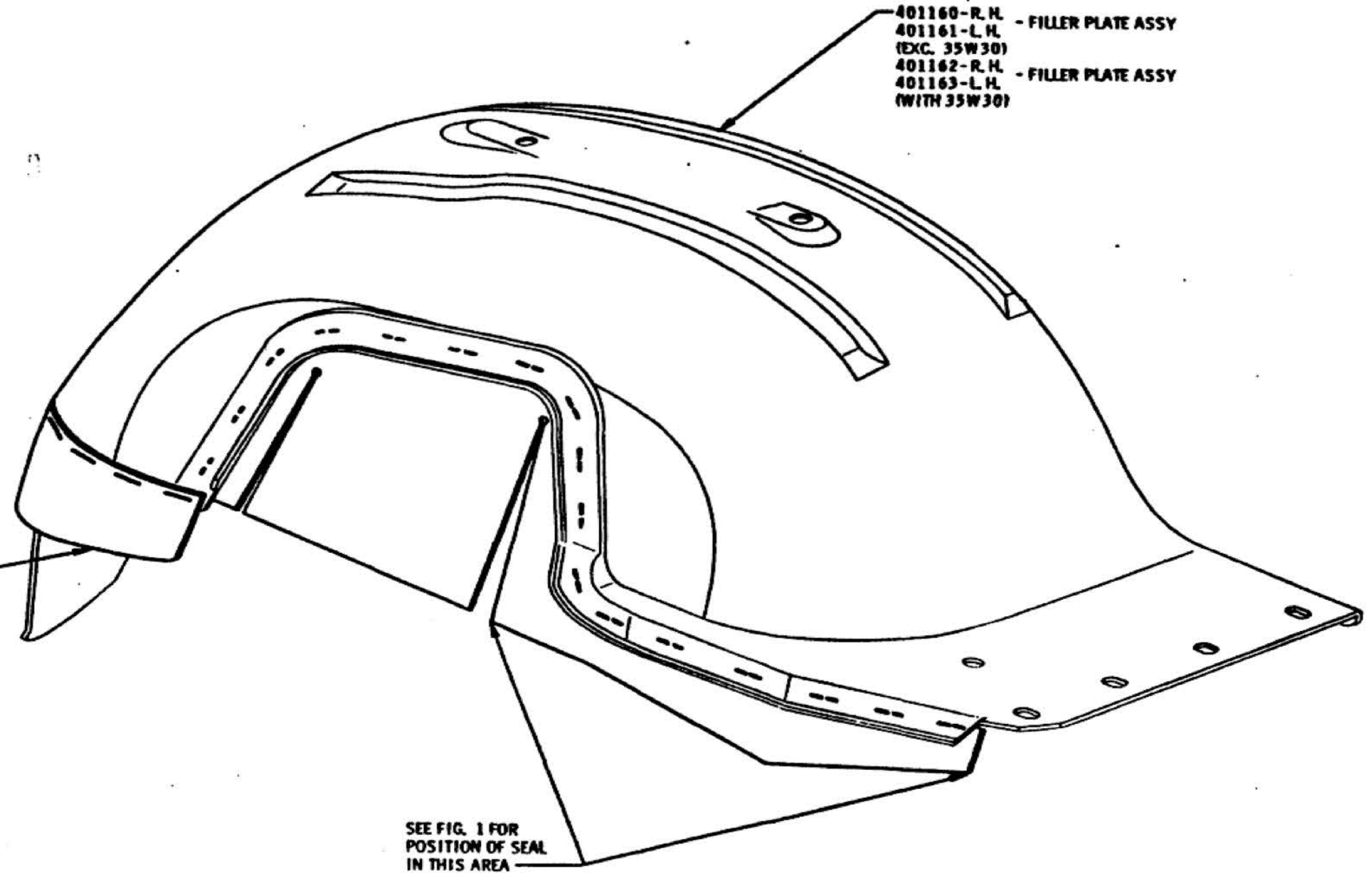
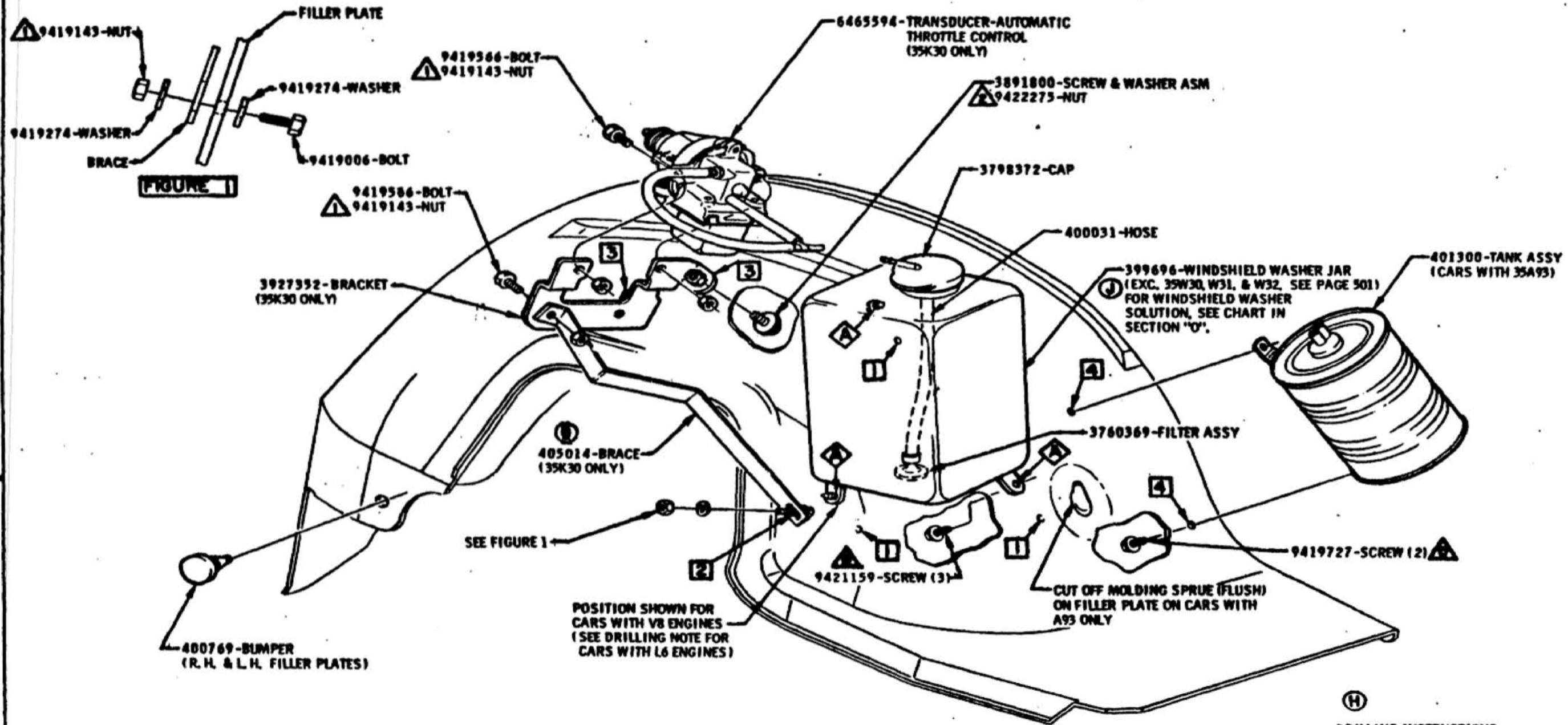


FIGURE 1

												TITLE		FILLER PLATE ASSY							
												DATE JULY 31, 1968		FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE	
												DR. BY <i>R. G. ...</i>		1969		INFORMATION MANUAL		11		124	
												CHECKED JOE V. GALL		REF. 11E		SERIES		PART NO.		401900	
												APPR. <i>Joe V. Gall</i>		A							
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM



LEFT HAND FILLER PLATE

(H)

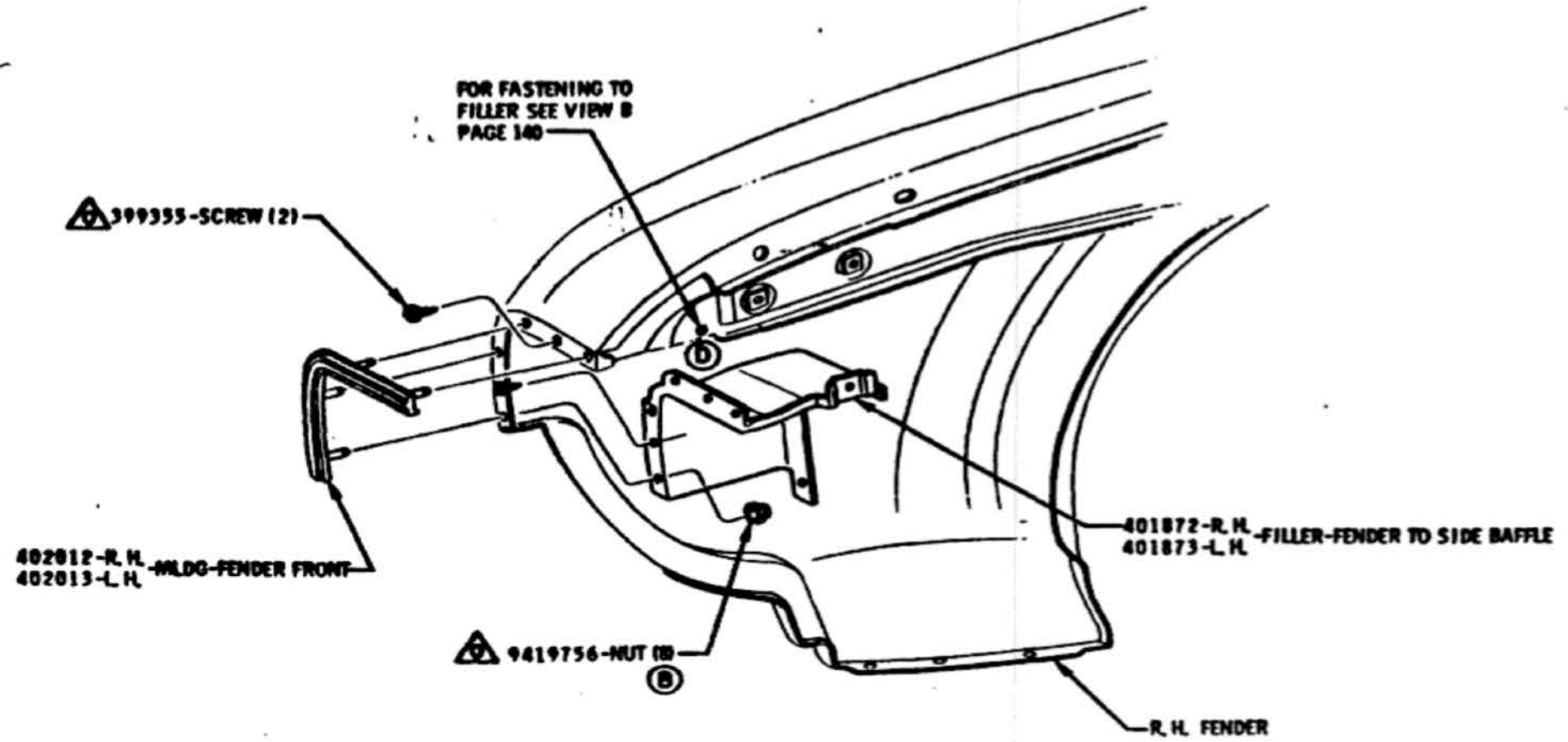
- DRILLING INSTRUCTIONS:**
- 1 ON CARS WITH L6 ENGINE IT WILL BE NECESSARY TO DRILL 3 HOLES .240 DIA. AT LOCATING DIMPLES.
 - 2 ON CARS WITH 35K30, IT WILL BE NECESSARY TO DRILL ONE HOLE .312 DIA. AT LOCATING DIMPLE.
 - 3 ON CARS WITH 35K30, IT WILL BE NECESSARY TO DRILL 2 HOLES .375 DIA. AT LOCATING DIMPLES.
 - 4 ON CARS WITH 35A93, IT WILL BE NECESSARY TO DRILL 2 HOLES .312 DIA. AT LOCATING DIMPLES.

A ON CARS WITH L6 ENGINE, EXISTING V8 WASHER BOTTLE HOLES WILL HAVE TO BE SEALED WITH 9981145-SEALER

- 72-120 LB. IN.
- 48-84 LB. IN.
- MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

DATE	BYM	REVISION	DR.	CK.	DATE	BYM	REVISION	DR.	CK.	DATE	BYM	REVISION	DR.	CK.	DATE	BYM	REVISION	DR.	CK.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE	
					1-2-69	J	35W32 ADDED			7-31-68	E	NOTE REVISED									FILLER PLATE COMPONENTS	1969		11	125
					11-18-68	H	DRILLING NOTE REVISED			7-12-68	D	NOTE ADDED									DATE FEBRUARY 20, 1968				
					11-18-68	G	TRANSDUCER BRACE ADDED			6-10-68	C	NOTES REVISED									DR. BY P. Locatelli				
					10-11-68	F	L6 WASHER BOTTLE INFO ADD			5-21-68	B	REVISED & REDRAWN									CHECKED <i>[Signature]</i>				
										3-6-68	A	DRILLING NOTE ADDED									APP. <i>[Signature]</i>	REV. 1A2 D NE 35A93 35K30	SERIES A	PART NO. 401900	

©



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

R. H. FENDER SHOWN
L. H. FENDER SIMILAR

REV	DATE	BY	REVISION	DR	CHK	DATE	BY	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
									FENDER FILLER & FRONT MOULDING	1969	11	131	
	5-28-68	D	REVISED TO DETAIL	PL	PT				DATE FEBRUARY 13, 1968				
	5-28-68	C	FIGURE 1 REMOVED	PL	PT				DR. BY P. Locatelli				
	4-9-68	B	(8) WAS (4)	PL	PT				CHECKED BY <i>[Signature]</i>				
	3-6-68	A	TORQUES REVISED	DR	PT				APP. <i>[Signature]</i>	REF. 11 C 11 G	SERIES A	PART NO. 401900	

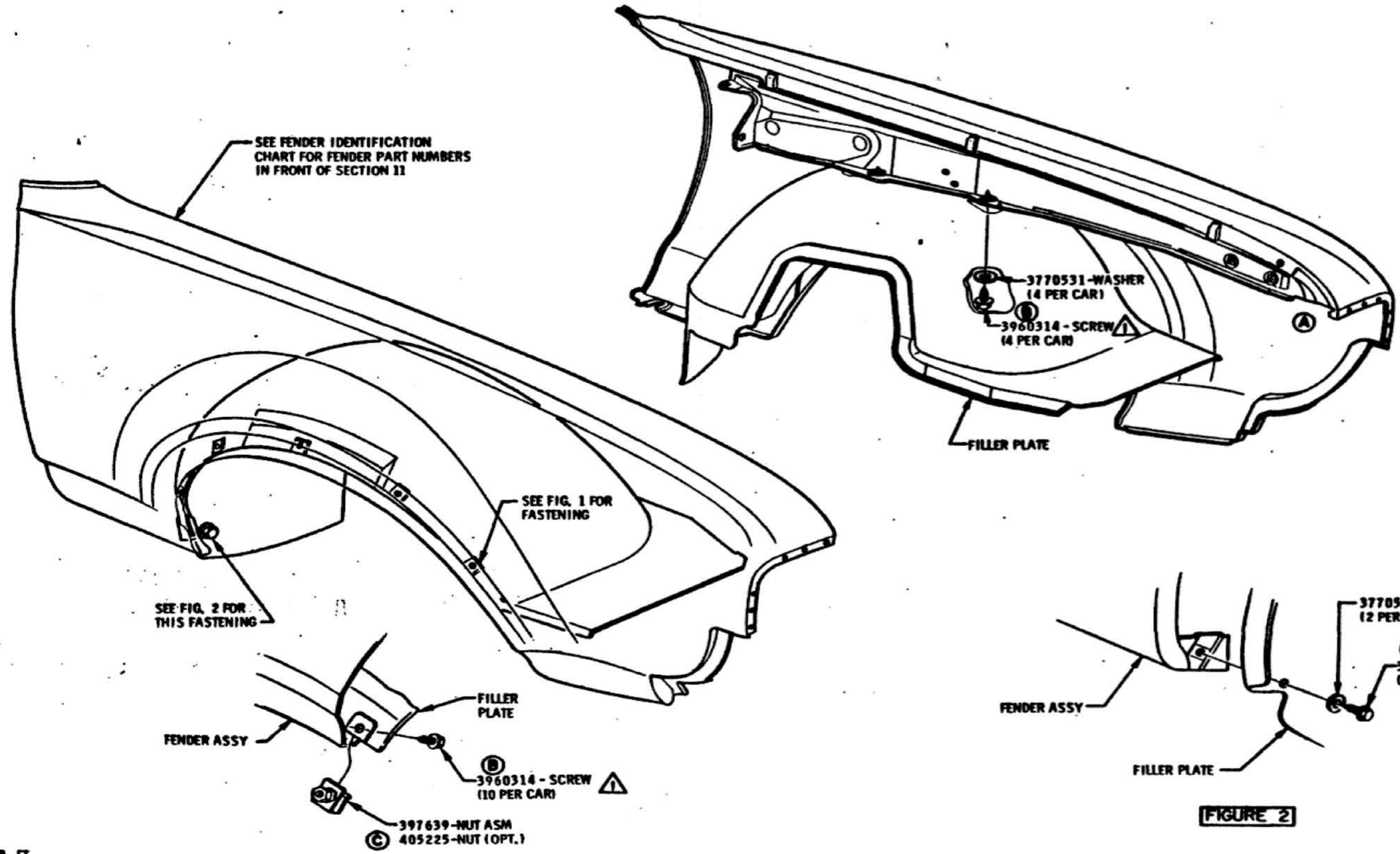


FIGURE 1

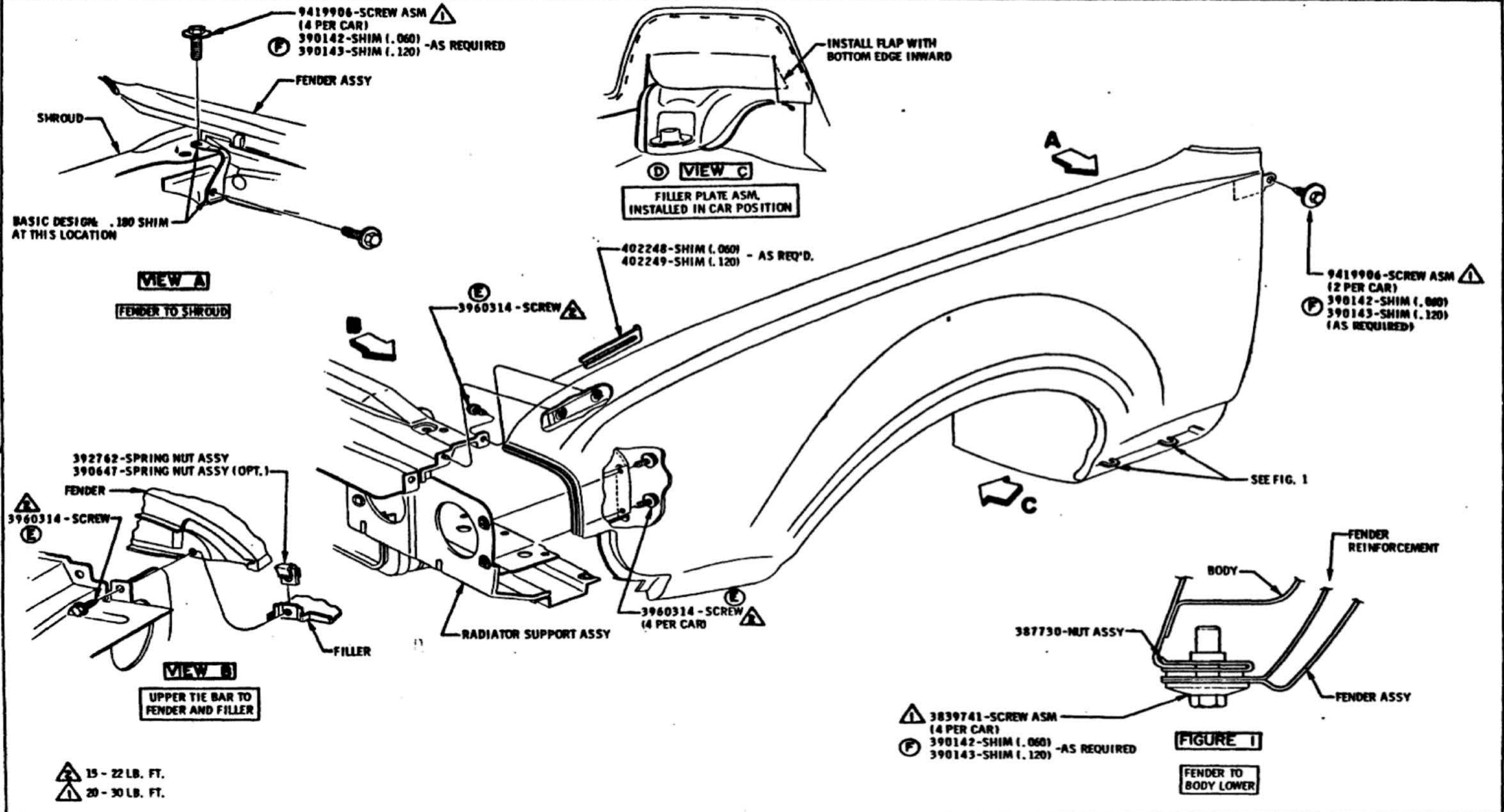
FIGURE 2

⚠ 15-22 LB. FT.

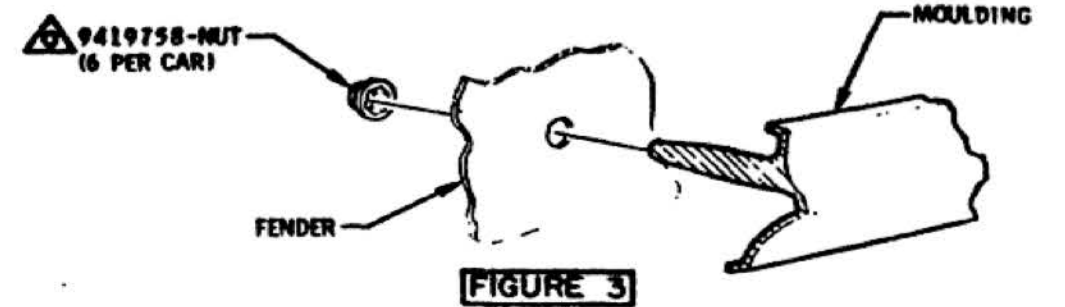
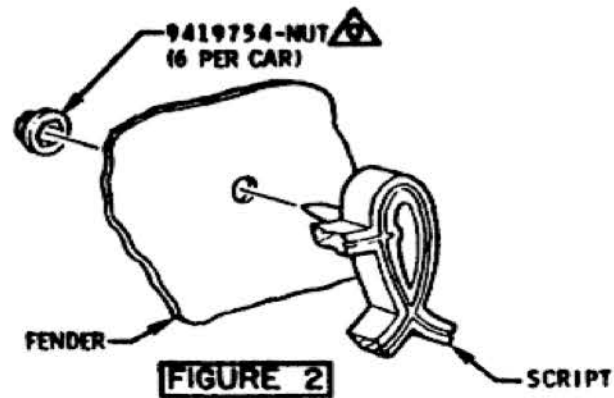
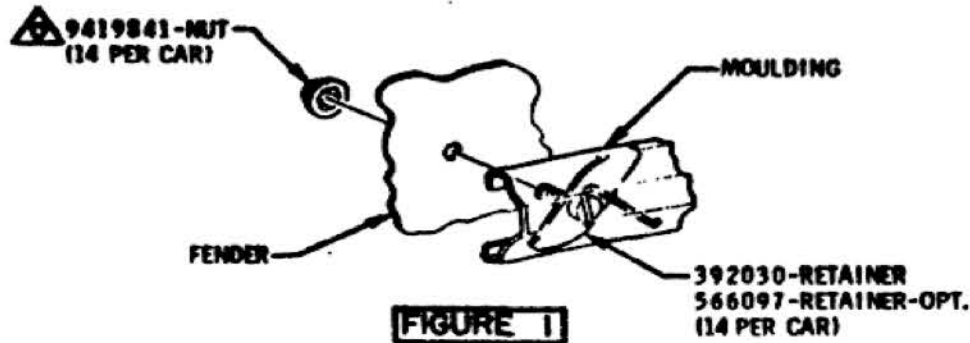
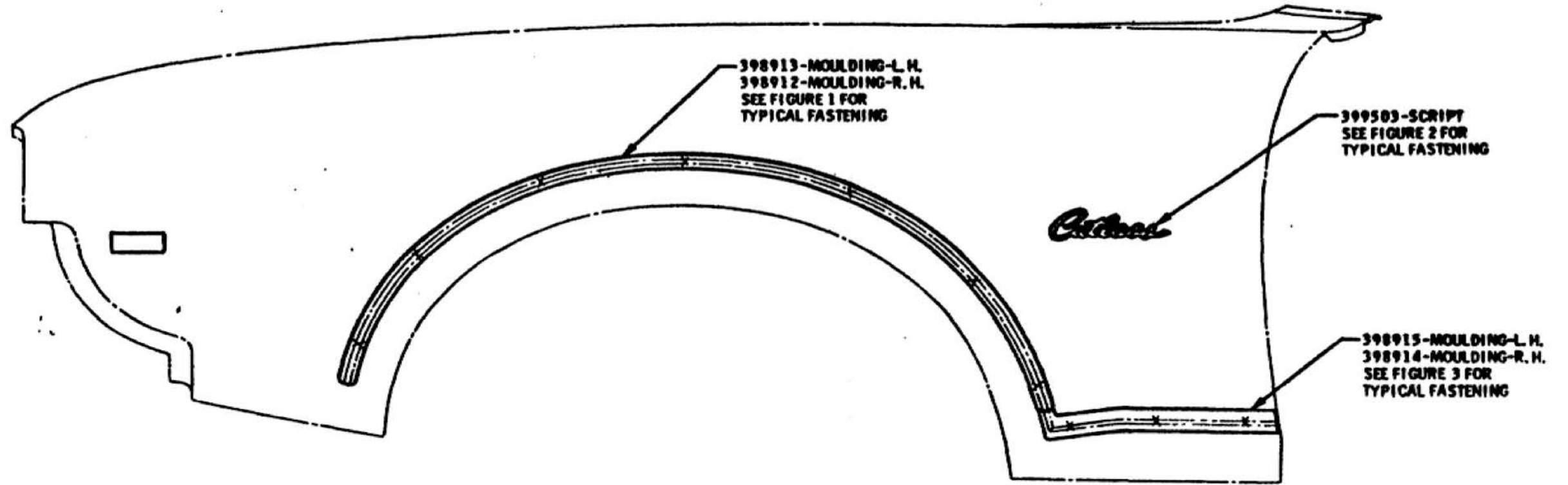
										TITLE		FILLER PLATE TO FENDER				
										DATE	FEBRUARY 16, 1968	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
										DR. BY	P. Locatelli				11	136
										CHECKED	M. Lambert	REV. 11E	SERIES	PART		
										4-7-69	C	405225- OPT NUT ADDED				
												8/9/68 B, WAS 9780422				
										5/28/68	A	REVISED TO DETAIL				

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

D. GENERAL. 20. 4019



		8/21/68	E ₂	WAS 9780422	PL	TITLE	FENDER TO BODY & RADIATOR SUPPORT			
		7-31-68	D	VIEW ADDED	PL	DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
		5-29-68	C	VIEW ADDED	PL	FEBRUARY 20, 1968	1969	INFORMATION MANUAL	11	140
		5-29-68	B	REVISED TO DETAIL	PL	DR. BY P. Locatelli				
		9-8-68	F ₁	WAS 3111834 + 3734786	PL	CHECKED <i>[Signature]</i>	REF. 11A	SERIES	PART NO.	401900
			A	FASTENING REVISED	PL	APP. <i>[Signature]</i>		A		



⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

L. H. SHOWN
R. H. SIMILAR

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
															FRONT FENDER MOULDINGS AND ORNAMENTATION (3535, 39, 69 & 3635, 39, 69)	1969		11	152
															DATE <i>MARCH 6, 1968</i>	REF. <i>116</i>	SERIES <i>A</i>	PART NO. <i>401900</i>	
															DR. BY <i>JOSEPH V. GALL</i>				
															CHECKED <i>MP Bonhart</i>				
															APPR. <i>JW</i>				
															APPR. <i>JW</i> 3/6/68				

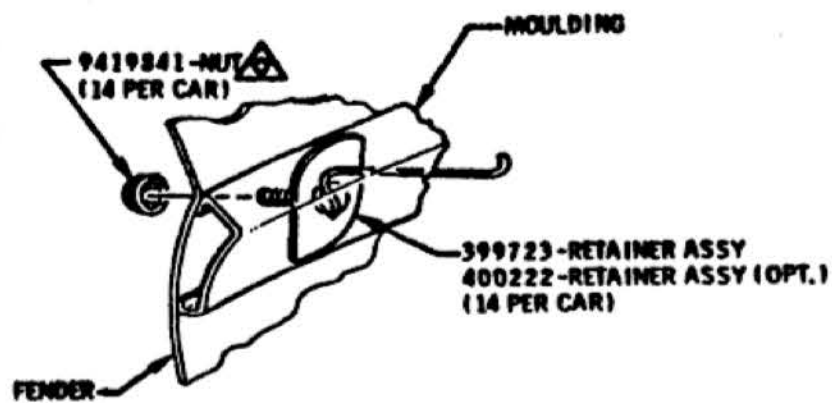


FIGURE 2

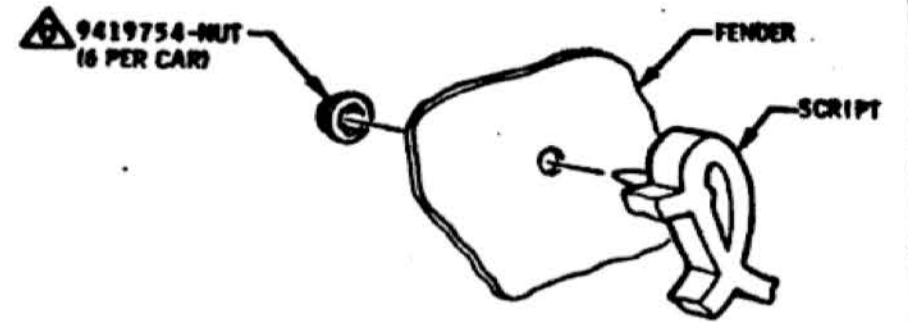


FIGURE 3

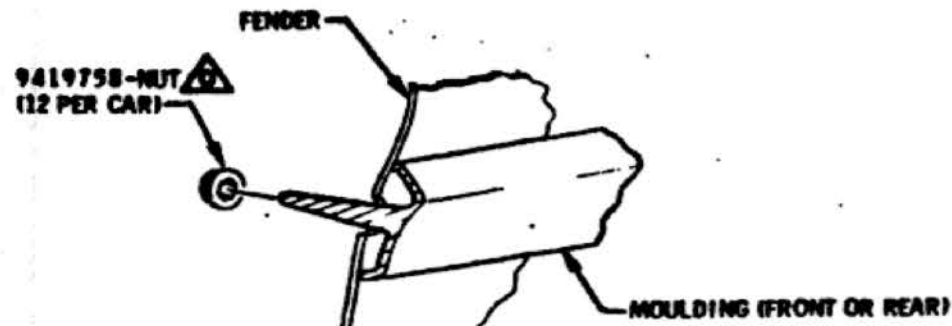
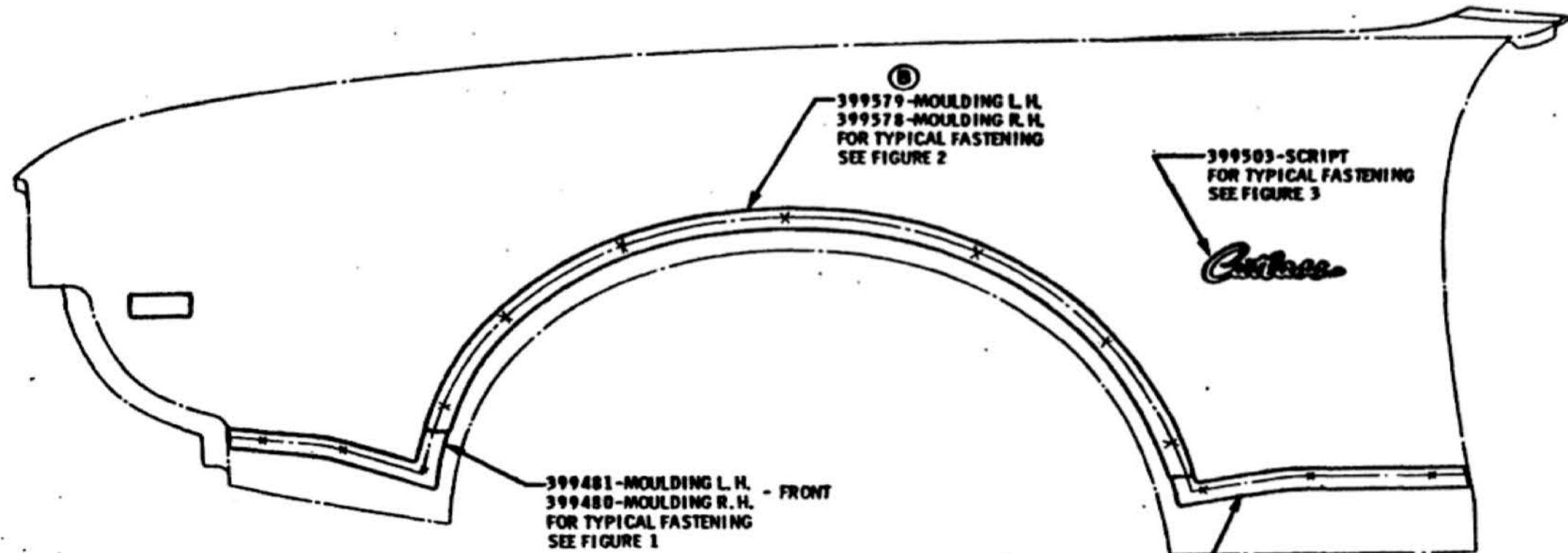
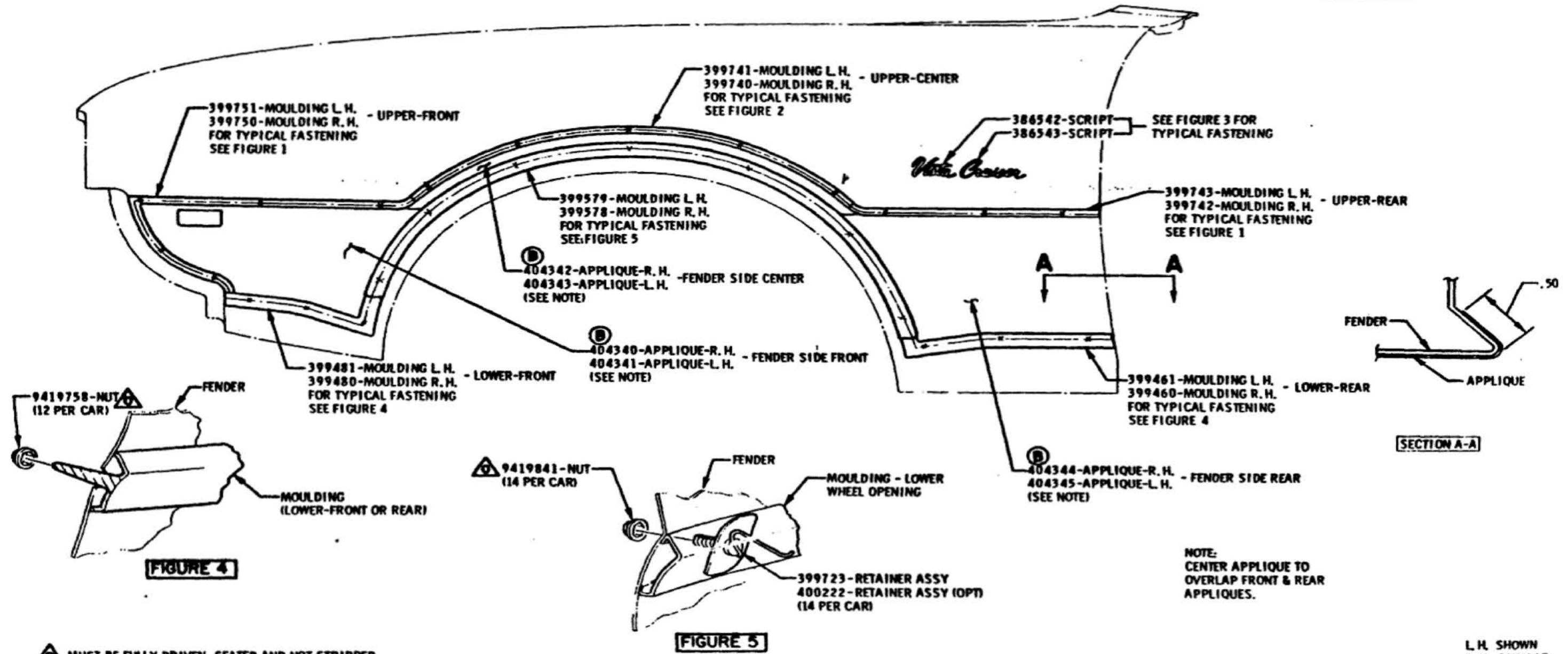
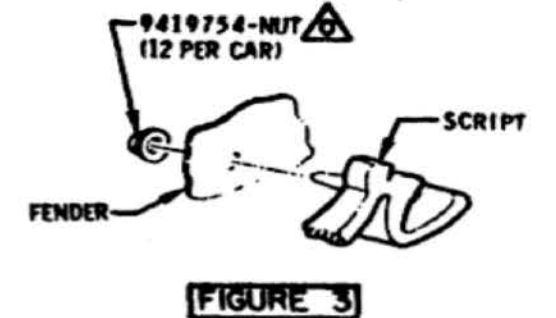
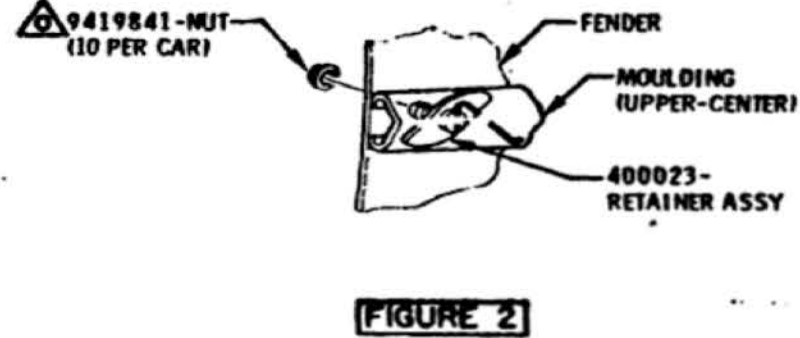
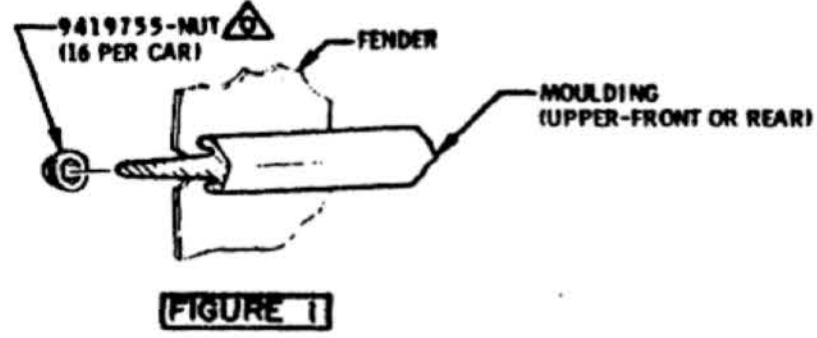


FIGURE 1

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

L. H. SHOWN
R. H. SIMILAR

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
															FRONT FENDER MOULDINGS AND ORNAMENTATION (4200)	1969		11	155
					9-3-68	C	NOTE REMOVED								DATE FEBRUARY 19, 1968 DR. BY JOSEPH V. GALL				
					4-9-68	B	WAS 399759 MOULDING								CHECKED BY [Signature]				
					3-6-68	A	TORQUES REVISED								APPR. [Signature]	REF. 116	SERIES A	PART NO.	401900



MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE FRONT FENDER MOULDINGS AND ORNAMENTATION (4800)										
DATE FEBRUARY 19, 1968					FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 11	PAGE 157
DR. BY J.D. LHM					CHECKED PYS		SERIES A		PART NO. 401900	
7-18-68 B PART NUMBER REVISED					3-6-68 A TORQUES REVISED		APP. W.F.		REV. 116	
REVISION	DR. CK.	DATE	SYM	REVISION	DR. CK.	DATE	SYM	APP. DATE		

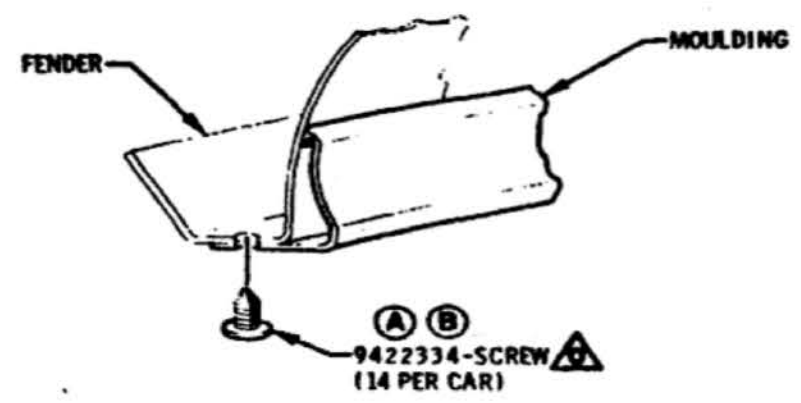
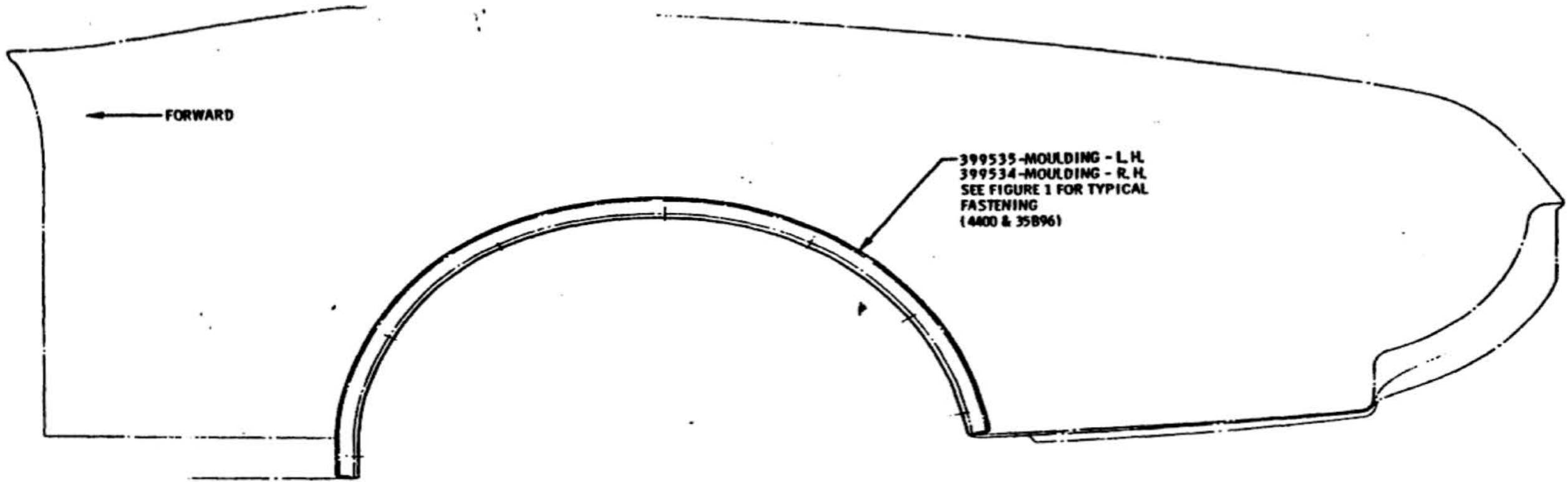
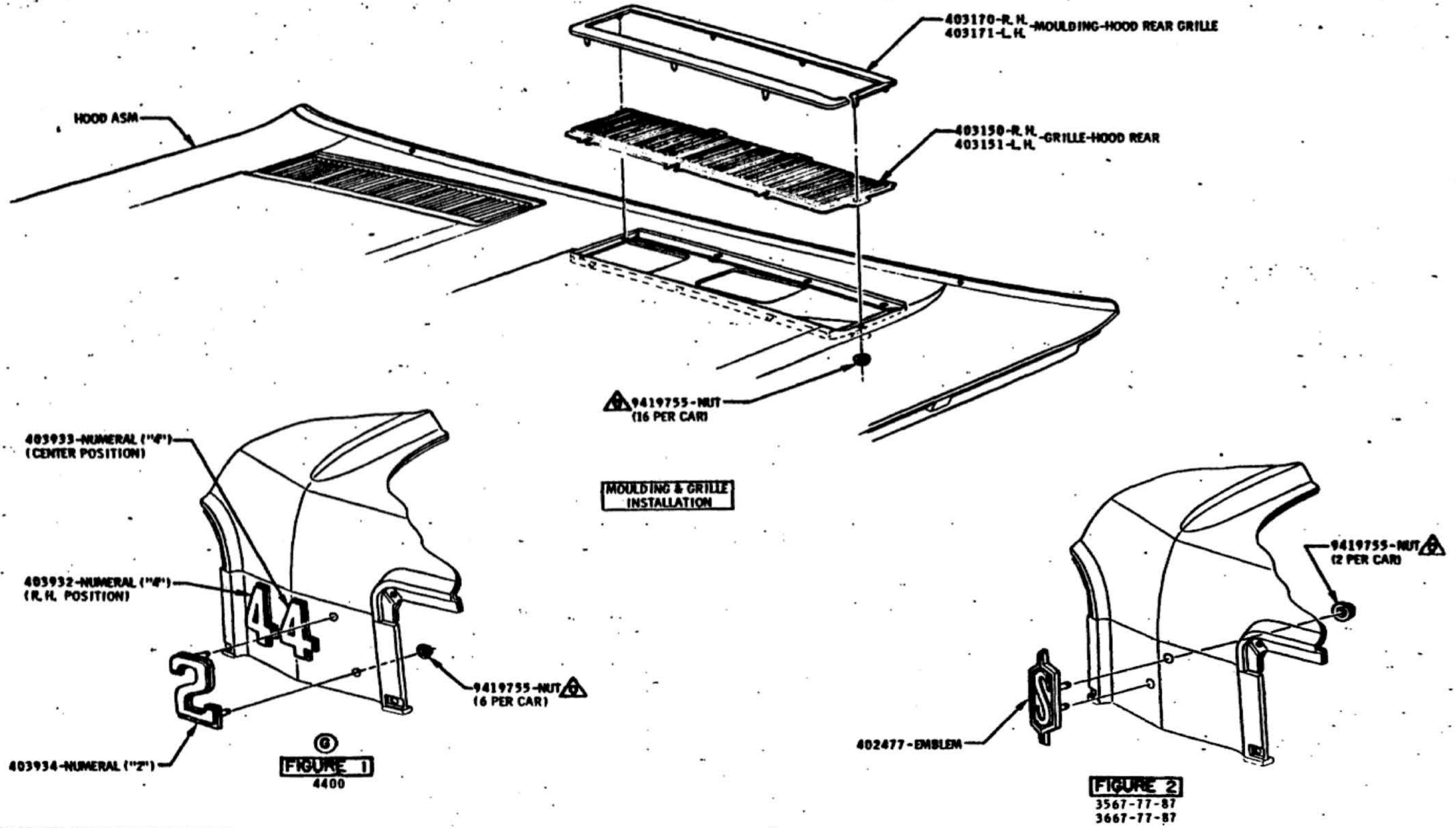


FIGURE 1

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

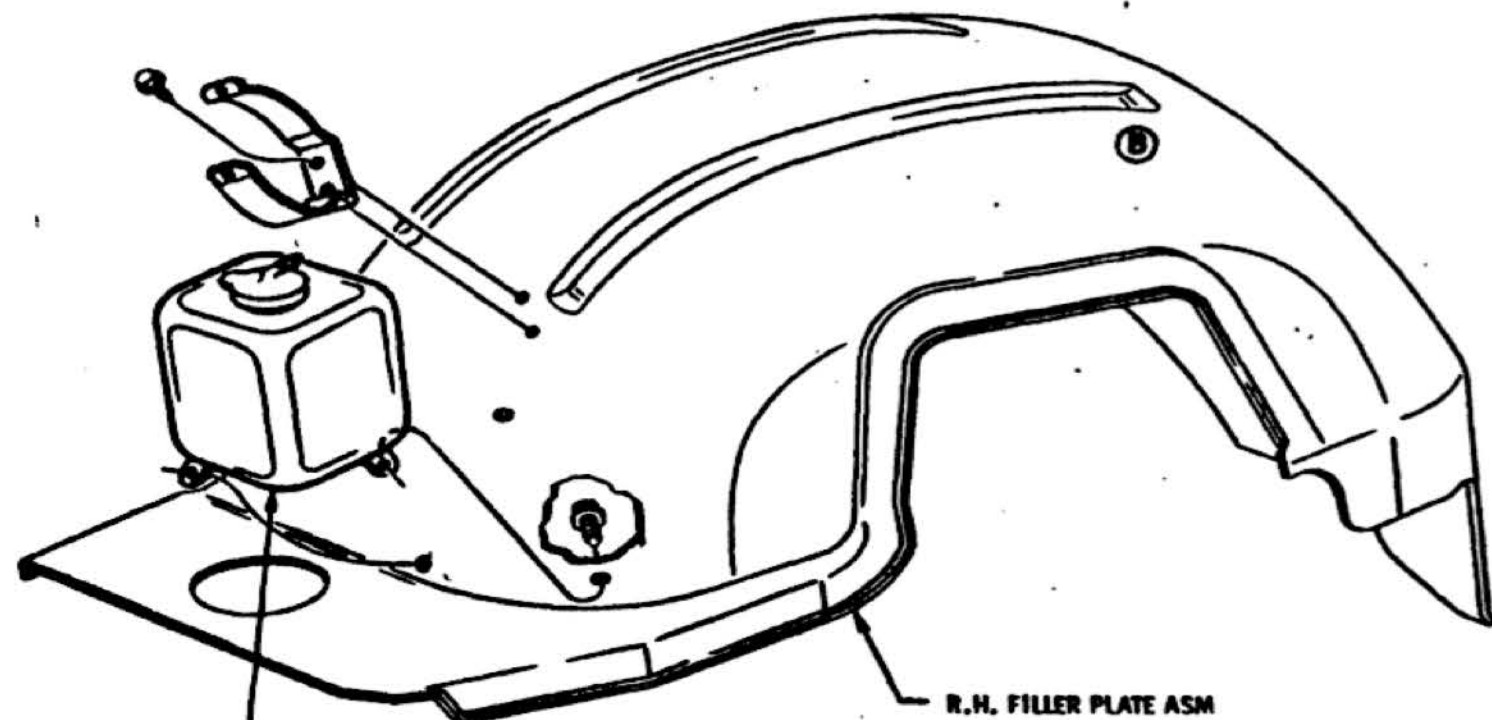
L.H. SHOWN
R.H. SIMILAR

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
															REAR FENDER WHEEL OPENING MOULDING (COUPES & CONVERTIBLES)	1969		11	159
					12-6-68	B	WAS 9414238-SCREW								DR. BY JOSEPH L. GAIL				
					7-2-68	A	WAS 94B049-SCREW								CHECKED BY <i>Barhart</i>				
															APP. - <i>WJE</i>	REF. 1A2F 35A PG	SERIES	PART NO.	
															APP. <i>Shu</i> 2/26/69		A		401900



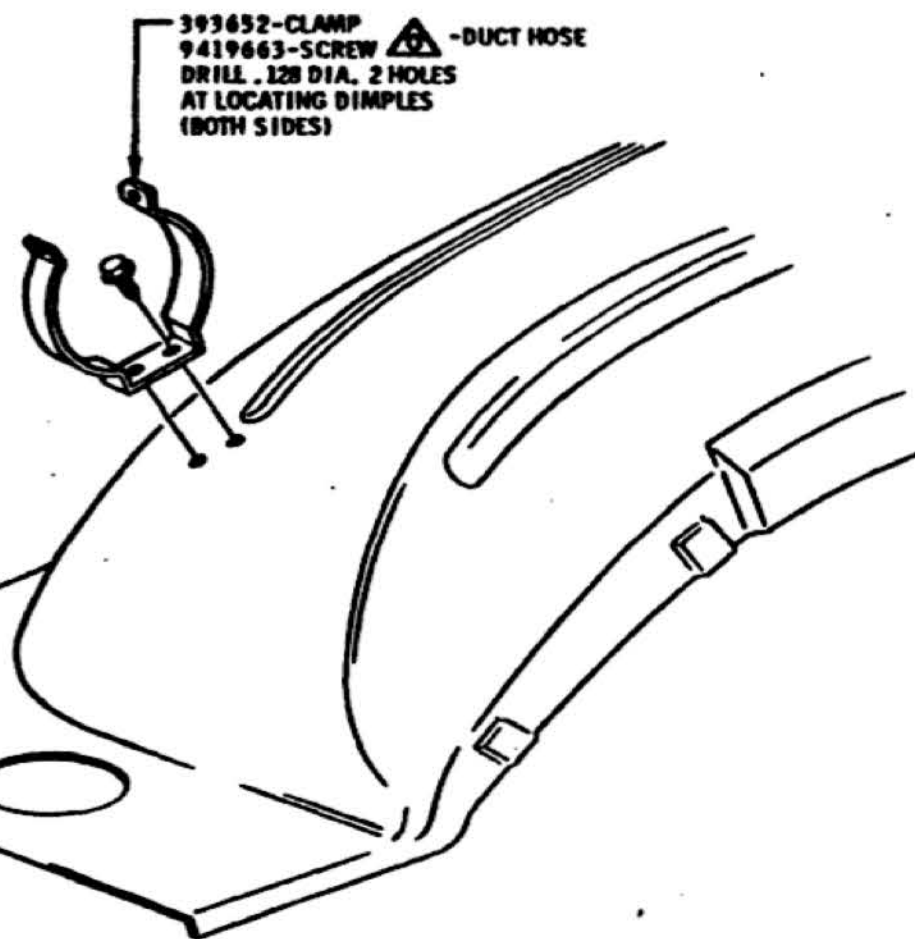
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

				12-5-68	E ₃	PART NO'S. REVISED			TITLE	HOOD ORNAMENTATION					
				9-6-68	D	WAS 25-35 IN. IN			DATE	FEBRUARY 20, 1968	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
				5-9-68	C ₃	PART NOS. REVISED			DR. BY	GMP JOSEPH V GALL	REF. 1A2C	116	INFORMATION MANUAL	11	182
		2-3-69	B	3-19-68	B	REVISED TO DETAIL			CHECKED	M. J. Barnhart			SERIES	A	PART NO.
		12-5-68	F ₂	3-8-68	A ₁	REVISED TO DETAIL			APPR.						401900
						NOTE ADDED			APP. <i>[Signature]</i>						



LOCATE DIMPLES
ON R.H. FILLER PLATE
IN LOCATION SHOWN
AND DRILL .250 DIA. (3 HOLES)

WASHER BOTTLE & FASTENINGS
ARE SAME AS STANDARD CAR.



393652-CLAMP
9419663-SCREW
DRILL .128 DIA. 2 HOLES
AT LOCATING DIMPLES
(BOTH SIDES)

DUCT HOSE

▲ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

DATE				REVISION				DATE				REVISION				TITLE		FIRST USED		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL DEC. PAGE	
																AIR INDUCTION SYSTEM		1969		11 501			
								12-11-66	B	CLIP & SCREW REMOVED	PL					DR. BY JOSEPH V. GALL		REF 35W32		SERIES A			
								7-31-68	A	TITLE REVISED	PL					APPR. <i>[Signature]</i>		35W30		PART NO. 401900			
																APPR. <i>[Signature]</i> 2/28/69		35W31					



SECTION 12 ELECTRICAL

96	CHARTS
110	INSIDE OF CAR
130	ENGINE COMPARTMENT
160	REAR END
215	AIR CONDITIONING
310	CONSOLE
311	MISCELLANEOUS ACCESSORY

DATE 6-17-68

MANUAL NO. 401900

SERIES A

OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

CRUISE CONTROL ENGAGE SWITCH	IN END OF TURN SIGNAL LEVER	PUSHING BUTTON "IN"	CAR MAINTAINS SPEED AT WHICH IT WAS OPERATING WHEN BUTTON WAS PUSHED	SEE CRUISE CONTROL DISENGAGE SWITCH INFORMATION	1. IGNITION SWITCH MUST BE IN THE "ON" POSITION 2. CRUISE CONTROL "OFF"-"ON" SWITCH MUST BE "ON" (SEE PAGE 1) 3. ENGINE MUST BE RUNNING	FOR ADDITIONAL INFORMATION, SEE P. I. M. PAGE 0. 108
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	PULLING KNOB OUT (A)	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 (EXCEPT RIM BLOWER)	IN HUB (STANDARD) ACROSS CENTER OF WHEEL (N30) 3 IN SPOKES (N34)	PUSHING BUTTON IN	HORNS BLOW	BUTTON MUST BE HELD IN. SPRING PRESSURE RELEASES.	NONE	
HORN BUTTON (RIM BLOWER STEERING WHEEL)	AROUND ENTIRE RIM OF STEERING WHEEL	PUSHING BUTTON IN	HORNS BLOW	BUTTON MUST BE HELD IN. SPRING PRESSURE RELEASES.	NONE	
IGNITION SWITCH	ON RIGHT HAND SIDE OF STEERING COLUMN	INSERTING KEY AND TURNING CLOCKWISE TO "OFF" POSITION	STEERING WHEEL WILL TURN AND SHIFT BOWL CAN BE MOVED	TURNING KEY COUNTERCLOCKWISE TO "LOCK" POSITION	NONE	1. KEY CAN BE REMOVED ONLY WHEN SWITCH IS IN "LOCK" POSITION 2. SHIFT LEVER MUST BE IN PARK (A. T.) OR REVERSE (S. M. T.) BEFORE SWITCH WILL GO INTO "LOCK" POSITION 3. A WARNING SYSTEM OPERATES OFF THE IGNITION SWITCH AND LEFT FRONT DOOR JAMB SWITCH. WHENEVER THE KEY IS FULLY ENGAGED IN THE LOCK AND THE IGNITION SWITCH IS IN THE "ACCESSORY", "LOCK" AND "OFF" POSITION, A WARNING BUZZER SOUNDS WHEN THE LEFT FRONT DOOR IS OPENED.
		INSERTING KEY AND TURNING CLOCKWISE TO "ON" POSITION	1. IGNITION CIRCUIT IS ENERGIZED 2. GENERATOR WARNING LIGHT ON INSTRUMENT PANEL COMES ON 3. CIRCUITS MENTIONED IN "QUALIFYING CONDITIONS" COLUMN ARE ENERGIZED 4. OIL PRESSURE LIGHT COMES ON 5. COLD LIGHT (ENGINE UNDER 110°F.)	TURNING KEY COUNTERCLOCKWISE TO "OFF" OR "LOCK" POSITION		
		INSERTING KEY AND TURNING CLOCKWISE TO "START" POSITION	1. STARTING CIRCUIT IS ENERGIZED 2. GENERATOR WARNING LIGHT ON INSTRUMENT PANEL COMES ON 3. ENGINE TEMP. "HOT" (RED) WARNING LIGHT COMES ON 4. OIL PRESSURE LIGHT COMES ON 5. COLD LIGHT COMES ON (ENGINE UNDER 110°F.)	RELEASING KEY. SPRING PRESSURE TURNS SWITCH COUNTERCLOCKWISE TO "ON" POSITION		
		INSERTING KEY, PUSHING SWITCH FORWARD (IN) AND TURNING COUNTERCLOCKWISE TO "ACCESSORY" POSITION	1. CIRCUITS MENTIONED IN "QUALIFYING CONDITIONS" COLUMN ARE ENERGIZED	TURNING KEY CLOCKWISE TO "LOCK" OR "OFF" POSITION		
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			

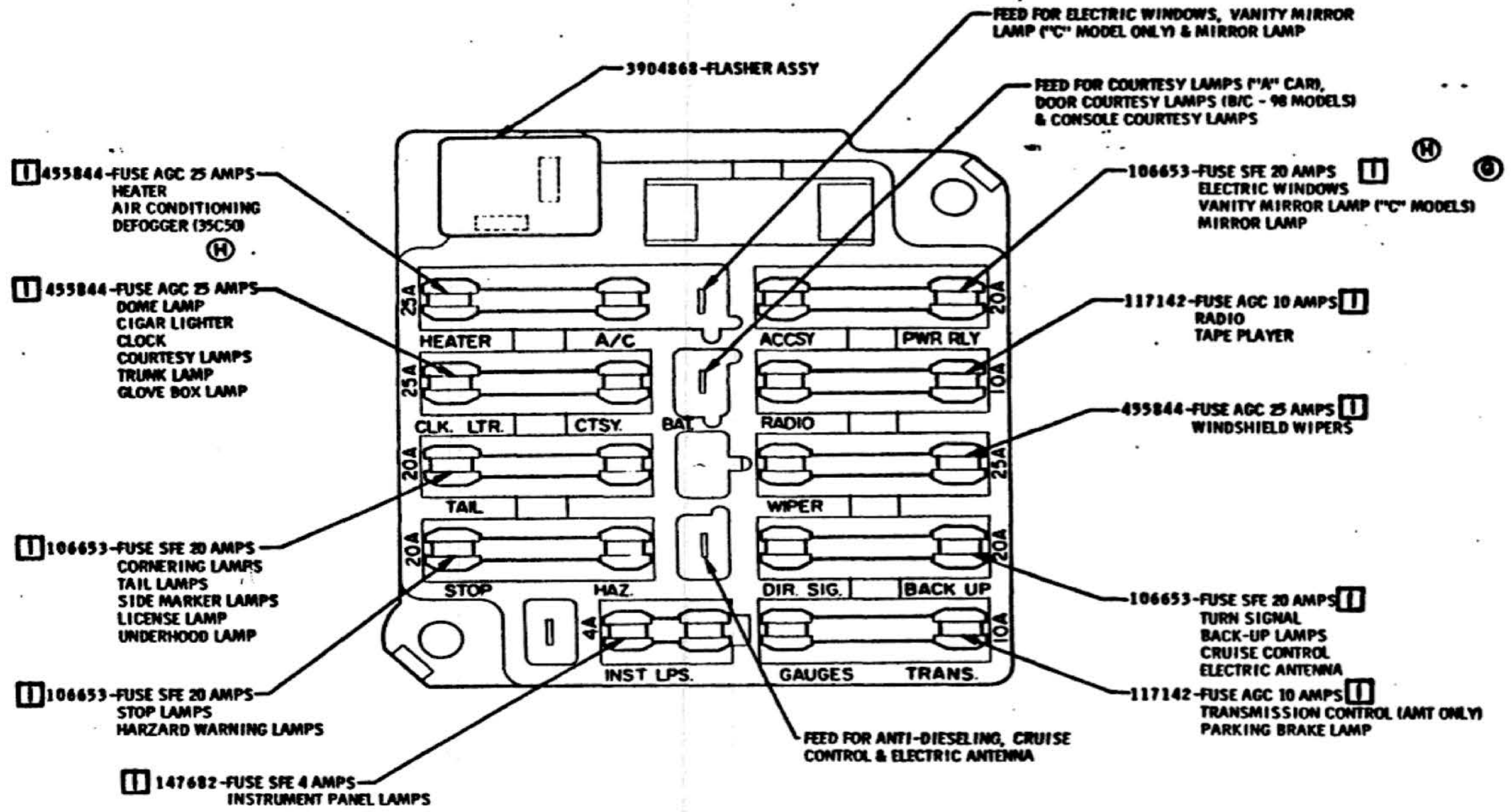
TITLE										CHART - ELECTRICAL SWITCH OPERATION				SHEET 2					
DATE <i>MAY 28, 1969</i>										FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.		PAGE			
DR. BY <i>BOB HOLT</i>										1969		INFORMATION MANUAL		12		97			
CHECKED <i>DON MALRIN</i>										REV.		SERIES		PART NO.		404191			
7568 A NOTE REVISED										APPR. <i>[Signature]</i>		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

G. GENERAL, VOL. 4000

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 THE "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)
CRUISE CONTROL DISENGAGE SWITCH	INTEGRAL WITH STOP LAMP SWITCH	PUSHING ON THE BRAKE PEDAL	CRUISE CONTROL IS DISENGAGED	RELEASING BRAKE PEDAL. SPRING PRESSURE RETURNS BRAKE PEDAL.	CRUISE CONTROL MUST BE OPERATING	FOR COMPLETE INFORMATION ON CRUISE CONTROL OPERATION, SEE P. I. M. PAGE 0. 108
CLUTCH START SWITCH (S. M. T. ONLY)	INSIDE CAR ON BRAKE SUPPORT BRACKET	DEPRESSING CLUTCH PEDAL TO FLOOR	STARTING CIRCUIT CAN BE ENERGIZED	RELEASING CLUTCH PEDAL	NONE	
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	
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	



Ⓛ THESE FUSES PART OF FUSE PANEL AS PURCHASED. FOR EQUIVALENT PACKARD ELECTRIC FUSE PART NUMBER SEE CHART.

AMPS	OLDS PART NUMBER	PACKARD ELECTRIC EQUIVALENT	COLOR CODE
25	455844	9426332	WHITE
10	117142	9426334	RED

DATE	BY	REVISION	DESCRIPTION	DATE	BY	REVISION	DESCRIPTION	DATE	BY	REVISION	DESCRIPTION	DATE	BY	REVISION	DESCRIPTION
7-10-68			REF. SYMBOL ADDED												
6-21-68			NOTES REVISED												
6-6-68			NOTES REVISED												
5-29-68			NOTE ADDED												
5-29-68			NOTES REVISED												

FIRST USED		1969		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC. 12		PAGE 100	
REF. 12H		SERIES		A-B-C		PART NO.		401900-1	

HEADLAMP AIMING SPECIFICATION (INCLUDING EXPORT)

1. HEADLAMP AIM TO BE SET WITH MECHANICAL AIMER THAT CONFORMS TO SAE J602.
2. AIMERS MUST BE CALIBRATED TO READ 0' UP/D AND 0' R/L WHEN AIMING PLANES ARE IN TRUE VERTICAL AND HORIZONTAL ALIGNMENT.
3. VEHICLE TO BE CURB WEIGHT LESS 1/2 TANK OF GASOLINE OR EQUIVALENT.

PRODUCTION SETTING

HEADLAMP TYPE	VERTICAL AIM	HORIZONTAL AIM
#1 AND #2	1.0' UP★	0' R/L

★ VERTICAL AIM SPECIFICATION TO BE MODIFIED AS REQUIRED TO COMPENSATE TO ONE-HALF FUEL TANK LOAD AND OTHER BUILD CONDITIONS.

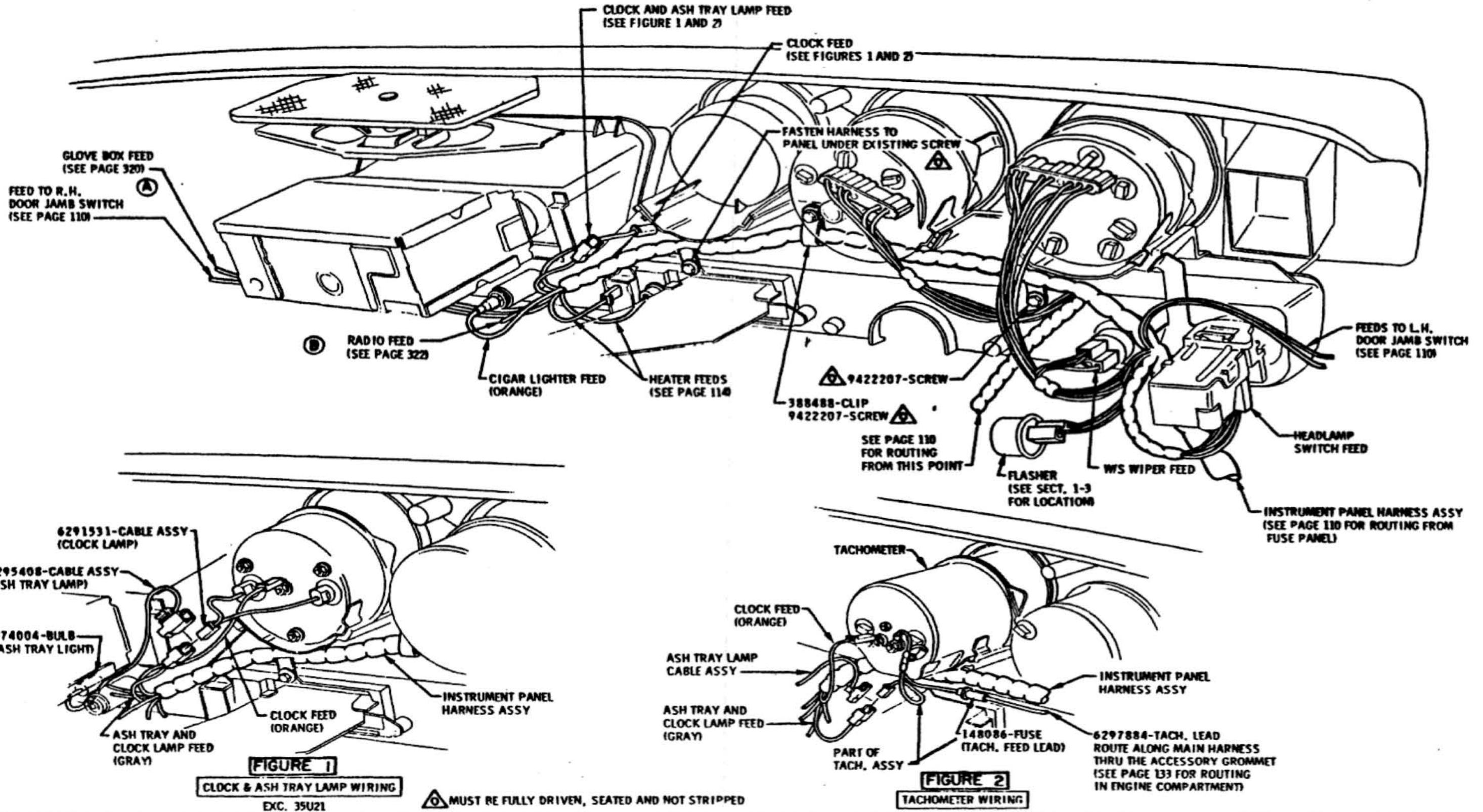
CHECKING LIMITS

HEADLAMP TYPE	VERTICAL AIM	HORIZONTAL AIM
#1 AND #2	1.0' UP ± 3.5' (A)	0' R/L ± 4.0' (A)

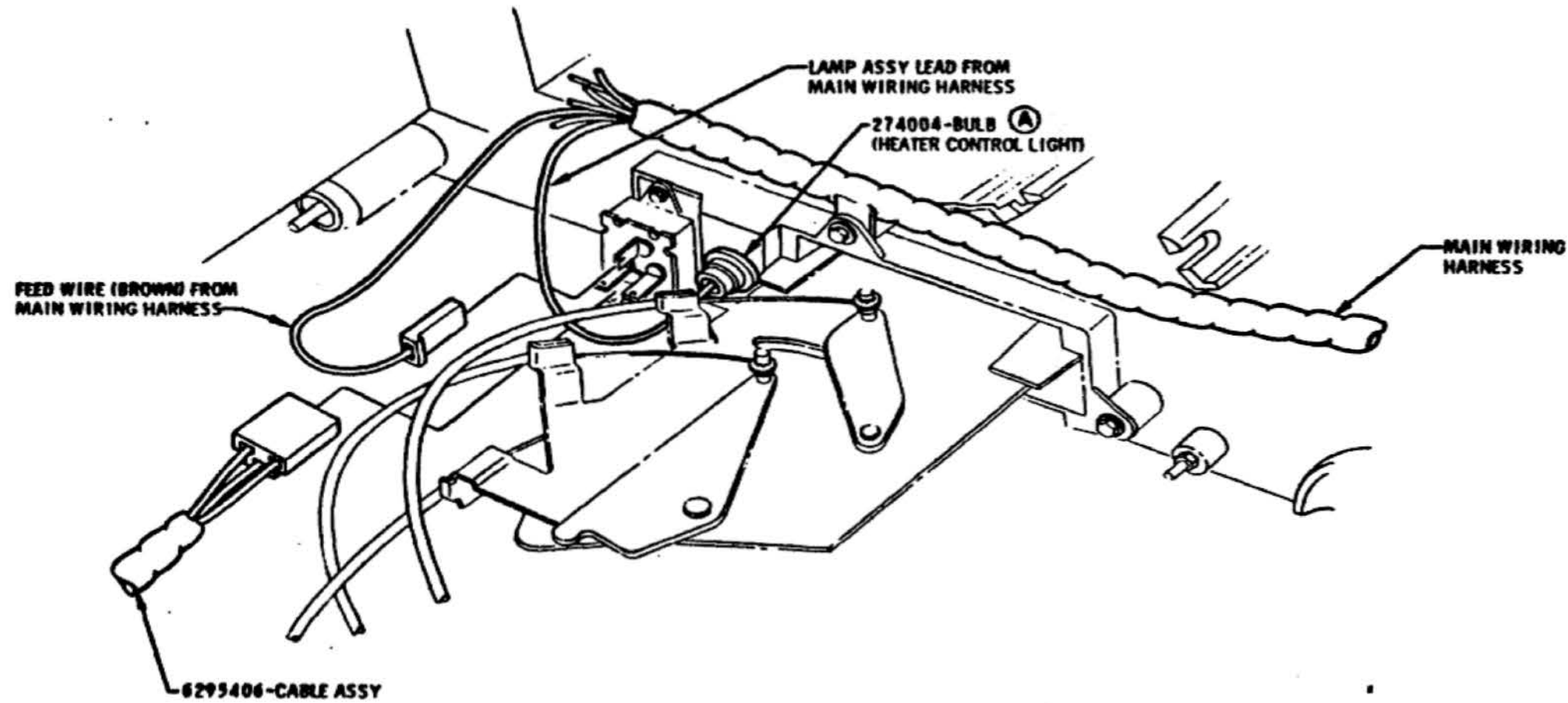
SERVICE SETTING

CHECK AND SET TO SAE J599A, STATE OR LOCAL SPECIFICATIONS AS REQUIRED.

DATE	BY	REVISION	DATE	BY	REVISION	DATE	BY	REVISION	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
									CHART - HEADLAMP AIM	1969		12	105
									DATE <i>MAY 7, 1968</i>				
									DR. BY <i>K. LOVELL</i>				
									CHECKED <i>[Signature]</i>				
									APPR. <i>[Signature]</i>				
											SERIES A-B-C-E	PART NO. 404067	

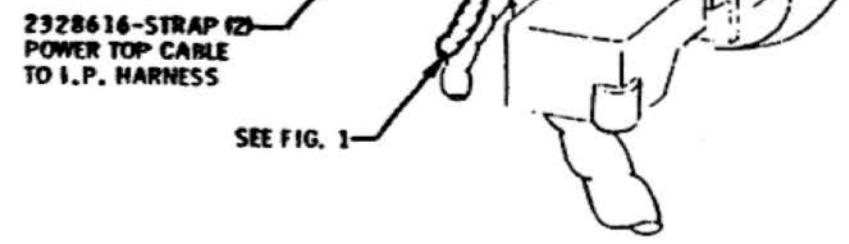
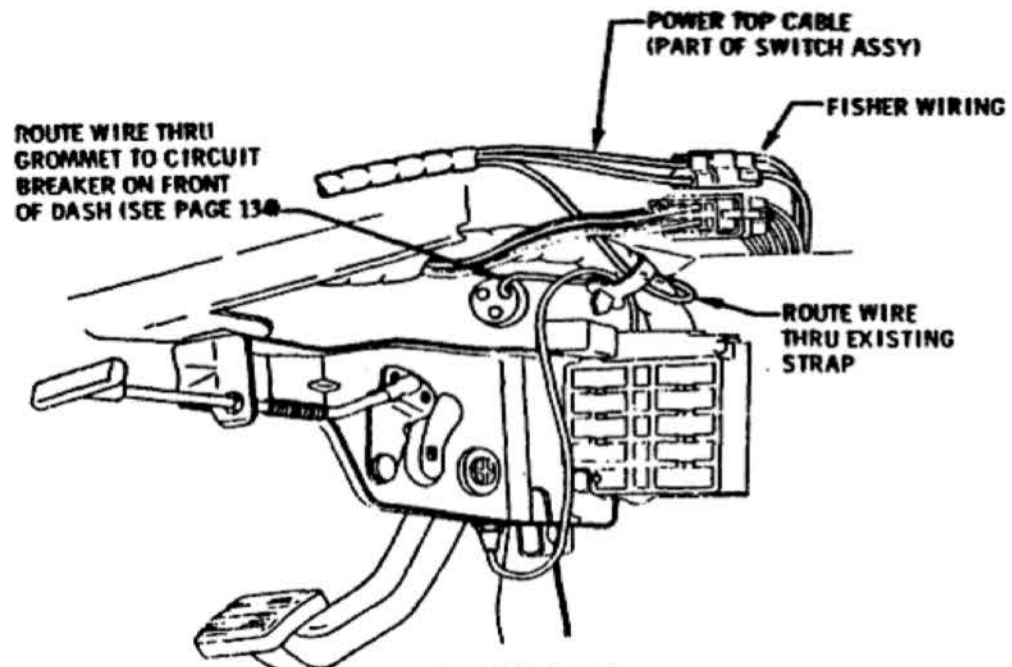
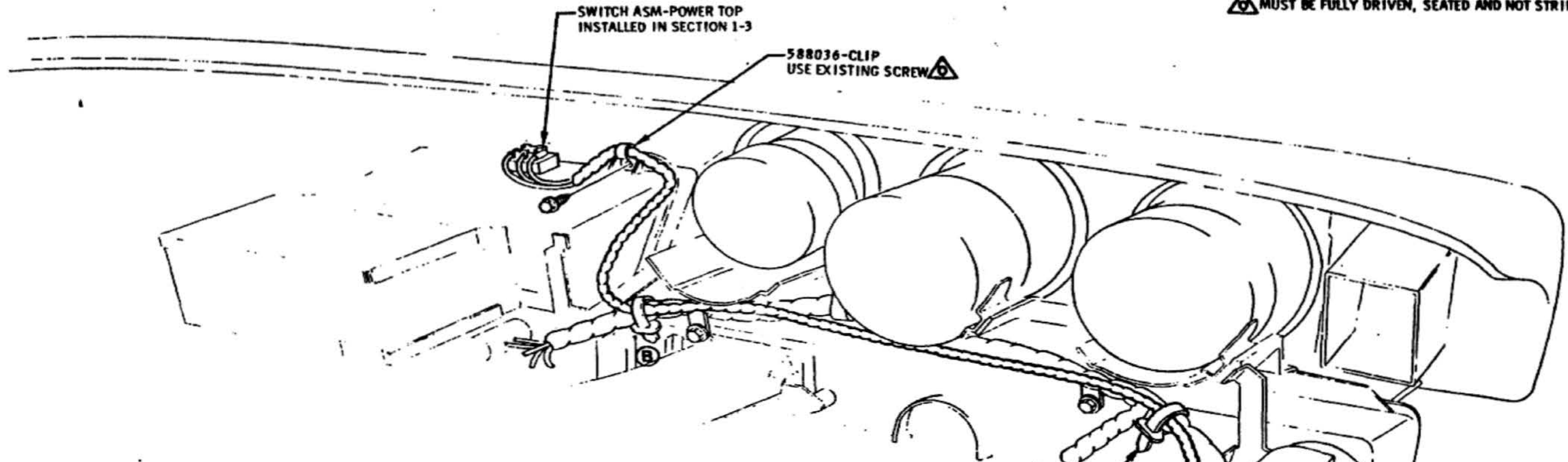


				TITLE INSTRUMENT PANEL WIRING (REAR VIEW)			
DATE 8-18-68				FIRST USED 1969		OLDSMOBILE PRODUCT INFORMATION MANUAL	
DR. BY P.J. McRESSY				REF. 12H 35U21		MANUAL SEC. PAGE 12 111	
CHECKED [Signature]				SERIES A		PART NO. 401900	
APPR. [Signature]							
8-18-68 B RADIO INFO MOVED TO 322							
7-16-68 A WIRE ROUTING REVISED							

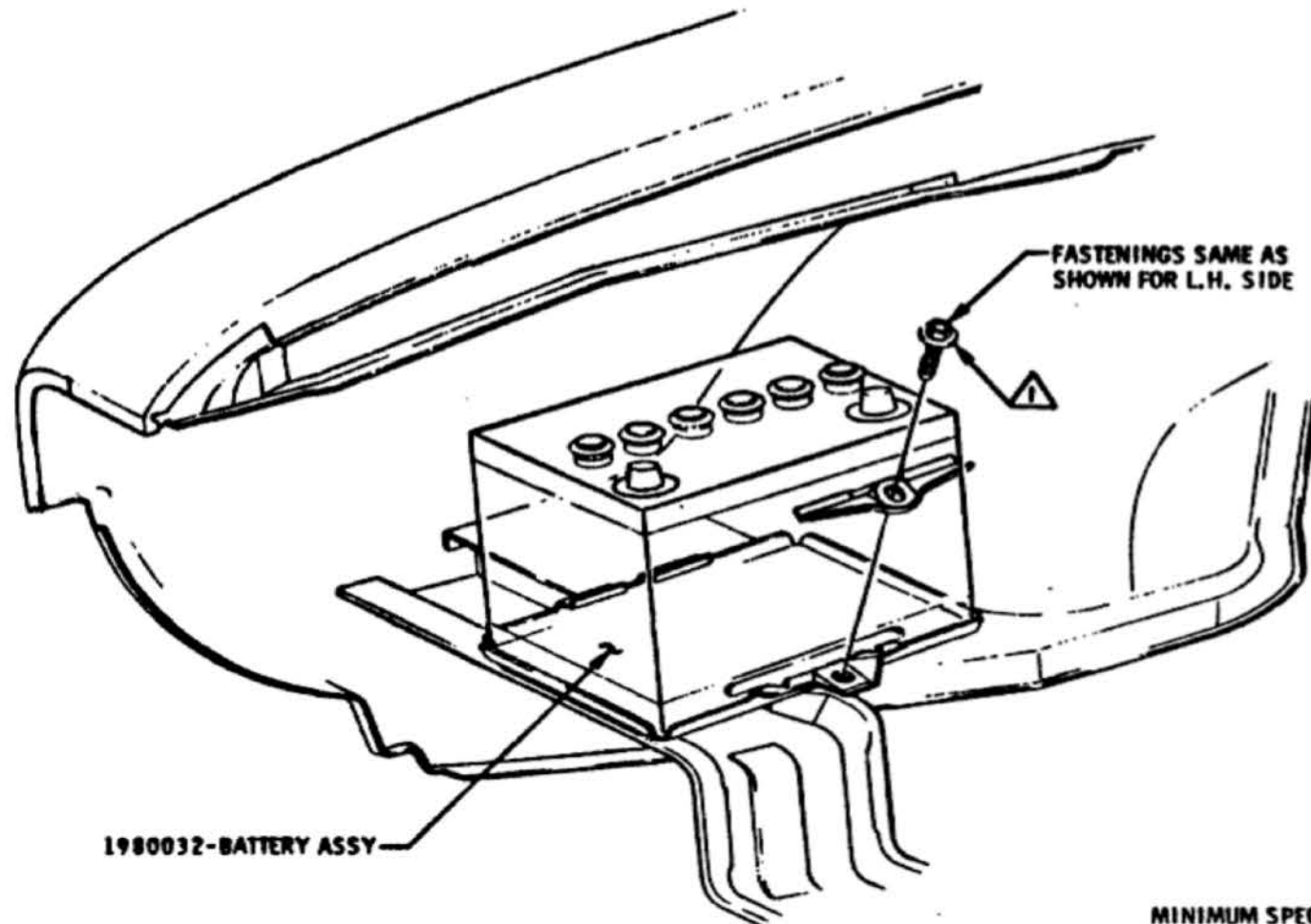


										TITLE		HEATER CONTROL WIRING (EXC. A/C)		
										DATE	FIRST USED	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
										DR. BY	1969	INFORMATION MANUAL	12	114
										CHECKED	REF. 1A2C	SERIES	PART NO.	
										APPR.		A	401900	
										DR. CL.				
										REVISION				
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										DATE				

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

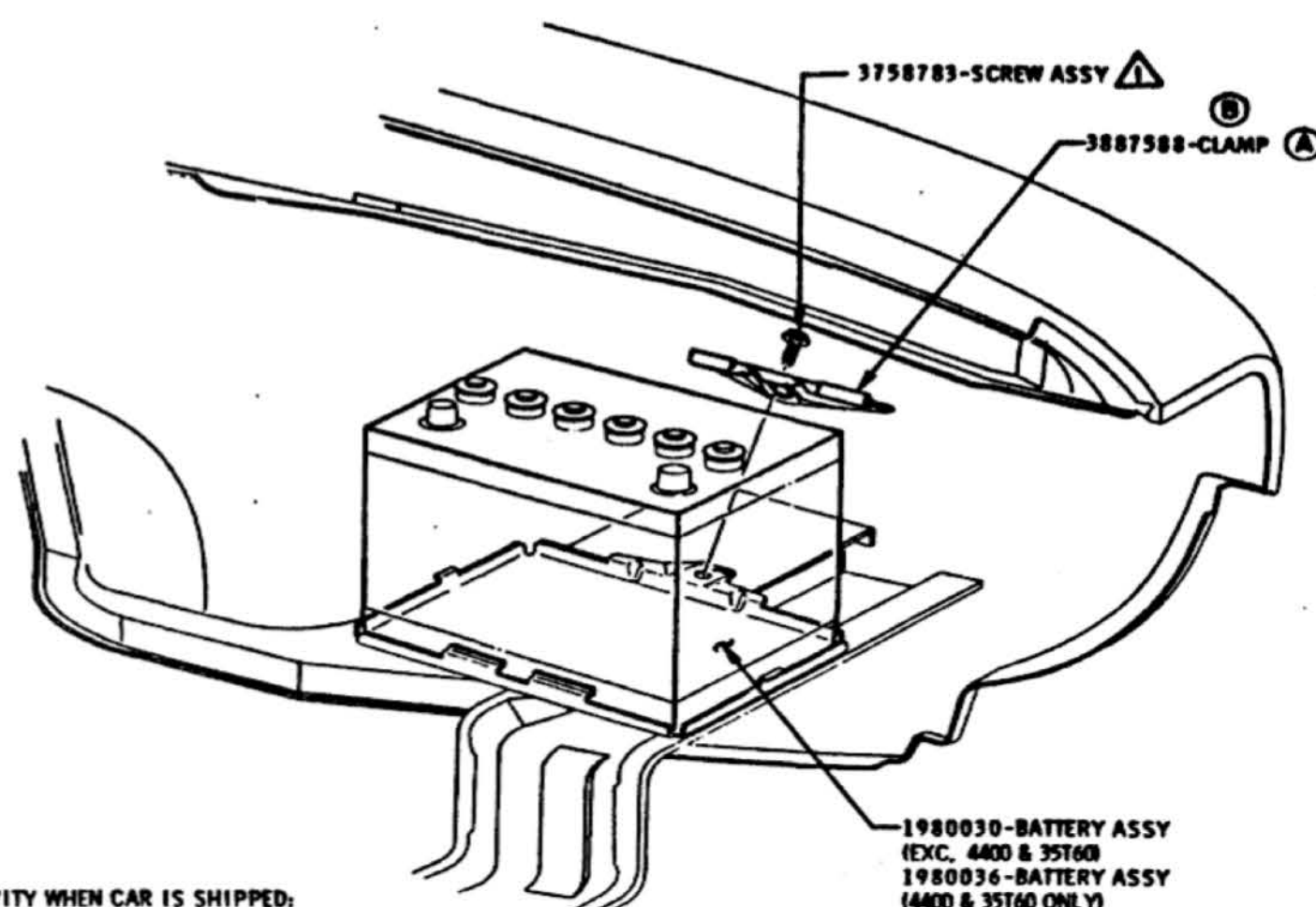


TITLE		POWER TOP WIRING	
DATE	JAN. 23, 1968	FIRST USED	1969
DR. BY	P.J. McKESSY	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC. PAGE 12 116



1980032-BATTERY ASSY

R.H. SIDE FASTENING
L6 ONLY



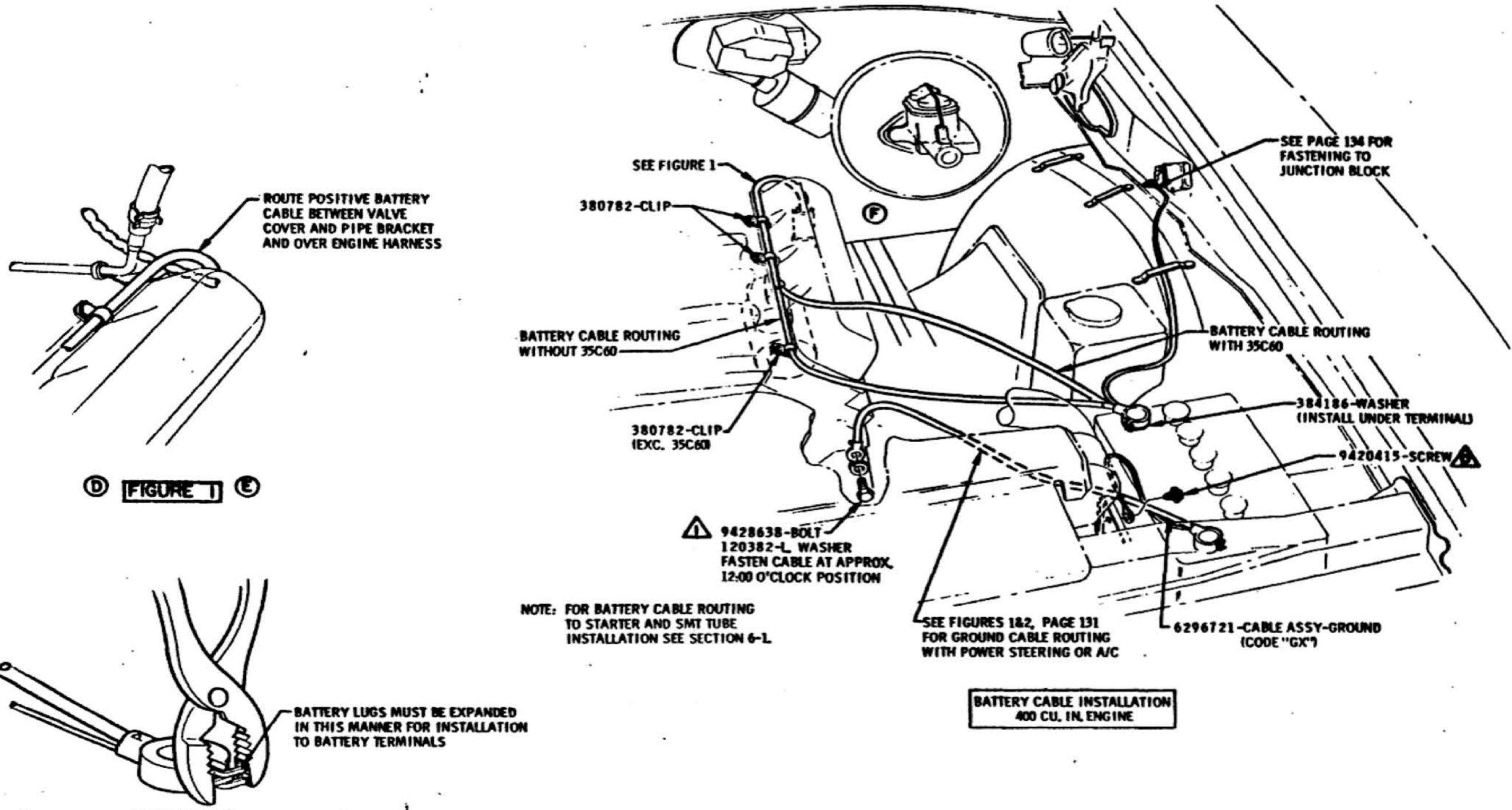
1980030-BATTERY ASSY
(EXC. 4400 & 35T60)
1980036-BATTERY ASSY
(4400 & 35T60 ONLY)

L.H. SIDE FASTENING
V8 ONLY

MINIMUM SPECIFIC GRAVITY WHEN CAR IS SHIPPED:
1.230 AT 80°F. (NOV. THRU MAR.)
1.220 AT 80°F. (APR. THRU OCT.)

△ 60 - 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
															BATTERY HOLD-DOWN	1969	12	130	
					6-26-68	B	WAS 403F24-CLAMP												
					12-68	A	WAS 3887588-CLAMP												
															REV. 12 A	SERIES A	PART NO. 401900		
															APPR. SHELL 1/26/68				



① FIGURE 1 ②

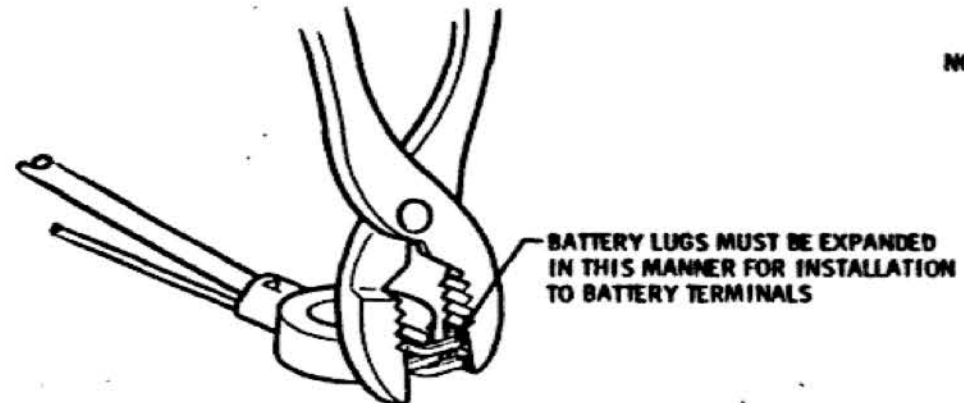


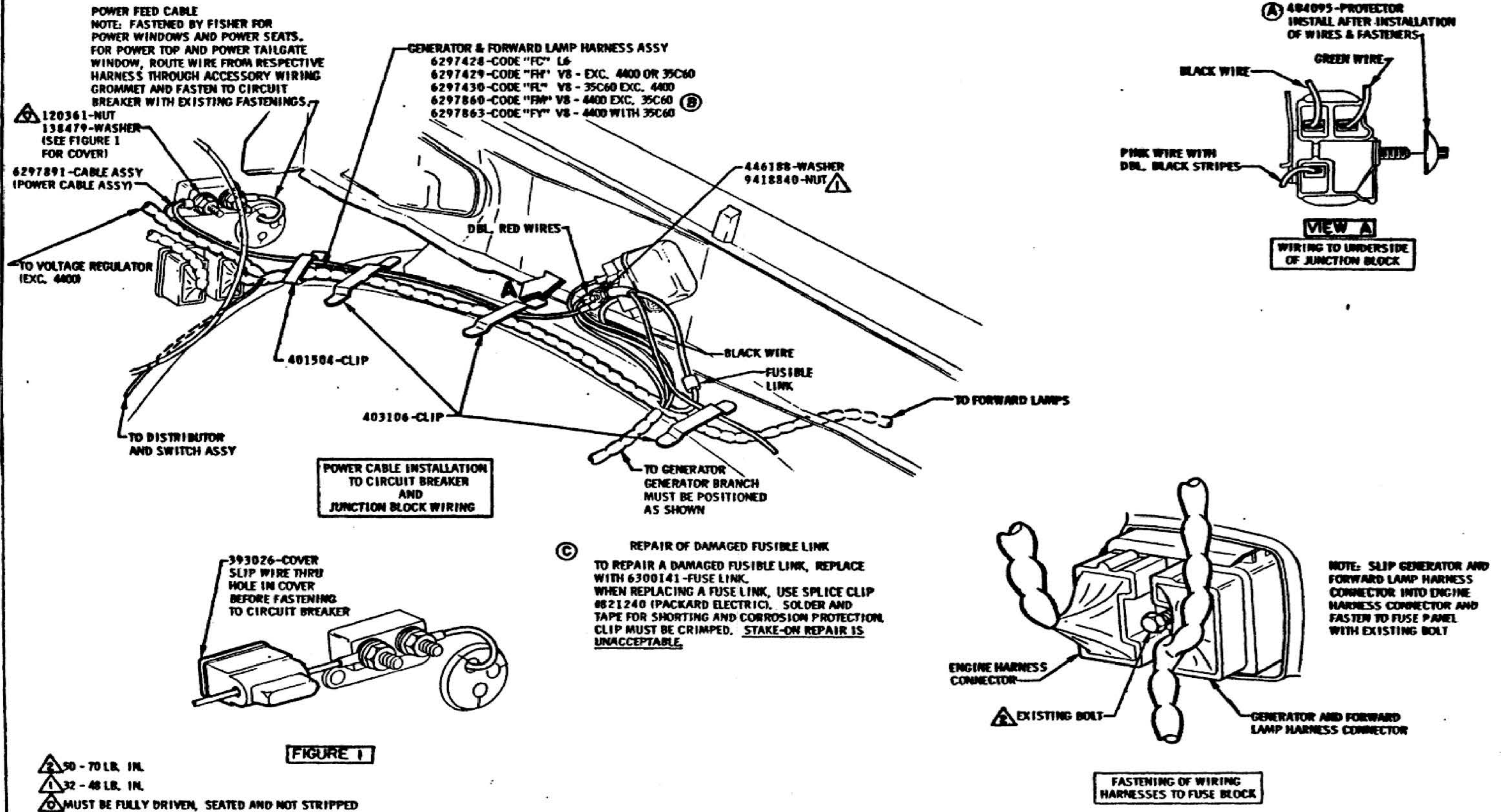
FIGURE 2
INSTALLATION OF CABLE TO BATTERY TERMINAL

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

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

BATTERY CABLE INSTALLATION
400 CU. IN. ENGINE

2-14-69	E	VIEW ADDED	JM/DT	TITLE BATTERY CABLE ROUTING (V8)	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
2-14-69	D	VIEW MOVED TO PAGE 131	JM/DT	DATE MAR 30, 1968	1969		12	132
8-15-68	C	TORQUE RELEASED	JG/DT	DR. BY JTB				
7-26-68	B	FIG. 2 ADDED	PL/DT	CHECKED P.J. MCKESSY	REF. 12A			
2-14-69	F	CABLE ROUTING REMOVED	JM/DT	APP. JTB	35M31-3R-40	SERIES A	PART NO.	401900

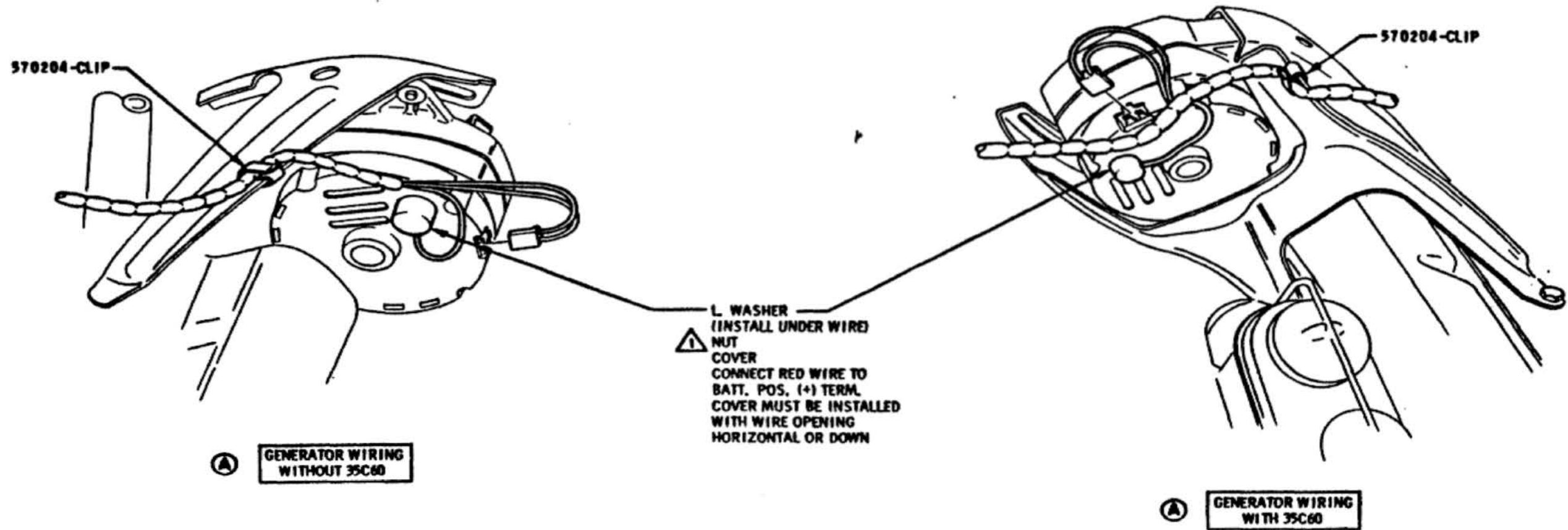


△ 50 - 70 LB. IN.

△ 32 - 48 LB. IN.

△ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

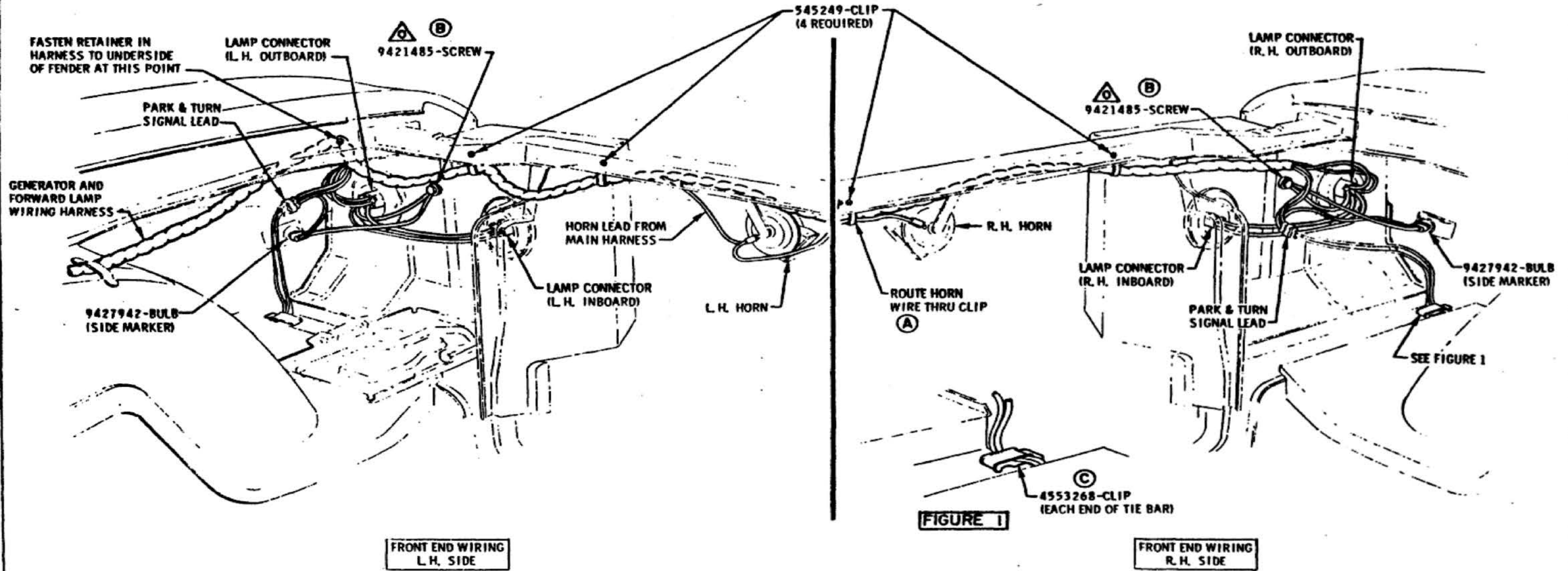
DATE	BY	REVISION	DR.	CK.	DATE	BY	REVISION	DR.	CK.	DATE	BY	REVISION	DR.	CK.	APPR.	TITLE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	SERIAL NO.	PAGE
																CIRCUIT BREAKER WIRING, FUSE PANEL CONNECTION AND JUNCTION BLOCK WIRING	1969		12	134
					5-17-68	C	NOTE REVISED									DATE <i>APR. 26, 1968</i>				
					7-31-68	B	CODES ADDED									DR. BY <i>P. J. McKESSY</i>				
					6-6-68	A	404095 - PROTECTOR ADDED									CHECKER <i>[Signature]</i>				
																APPR. <i>[Signature]</i>	REF. 124 35A31 35A41 35A33 35A46	SERIES	PART NO.	
																		A	401900	



SEE PAGE 136 FOR WIRE ROUTING FROM FILLER PLATE & TO OIL PRESSURE & WATER TEMP. SWITCHES

⚠ 30-40 LB. IN.

										TITLE		GENERATOR WIRING - V8 (4400)					
										DATE	MAY 25 1968		FIRST USED	1969			
										DR. BY	P. J. MCKESSY		OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC.	12	
										CHECKED	[Signature]		SERIES		A		
										APPR.	[Signature]		REF. 12H GY	PART NO.		401900	
REV.	NO.	DATE	BY	SYMBOL	REVISION	DR. CK.	DATE	SYM.	REVISION	DR. CK.	DATE	SYM.	REVISION	DR. CK.	DATE	SYM.	REVISION

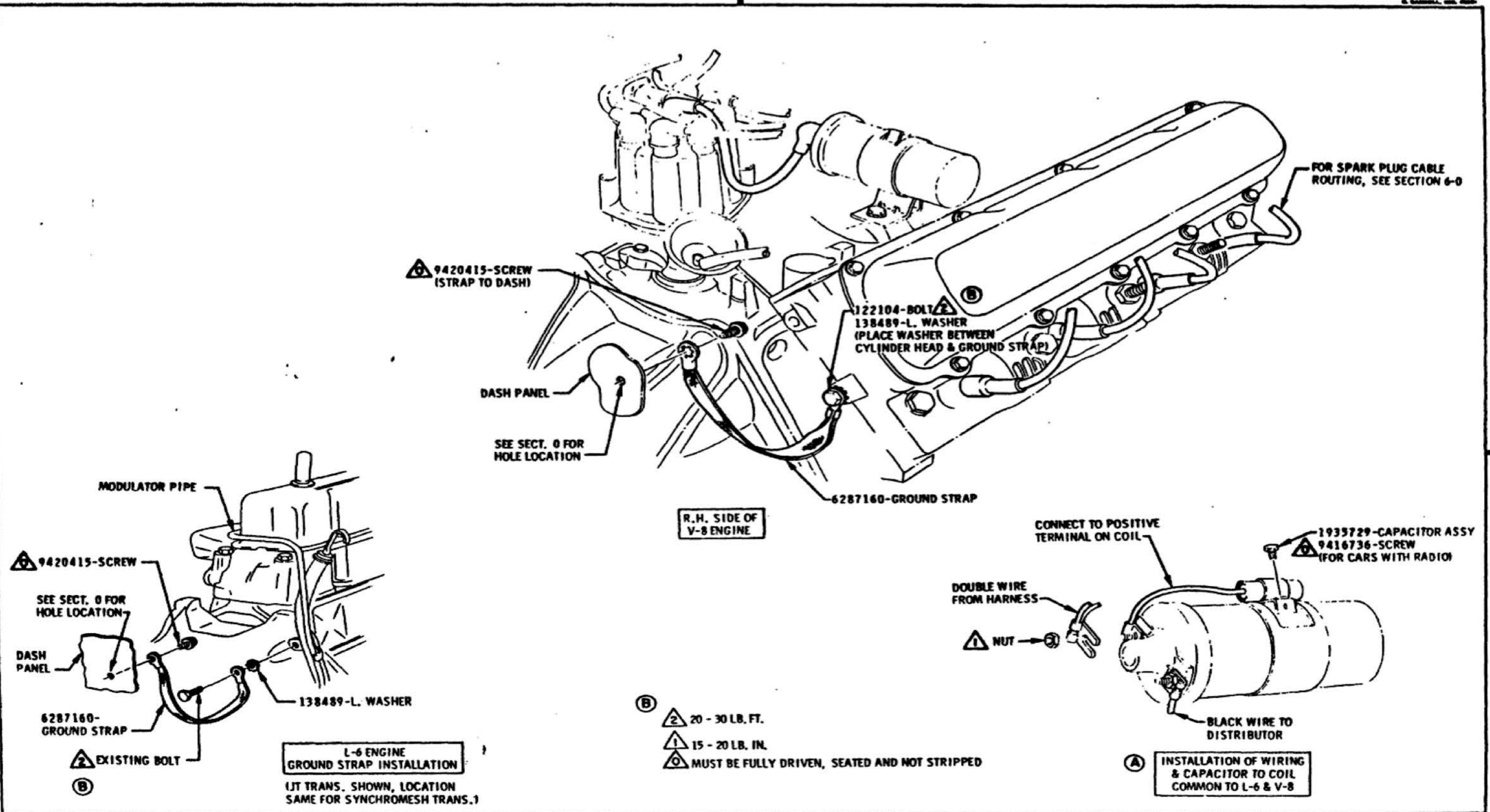


FRONT END WIRING
L.H. SIDE

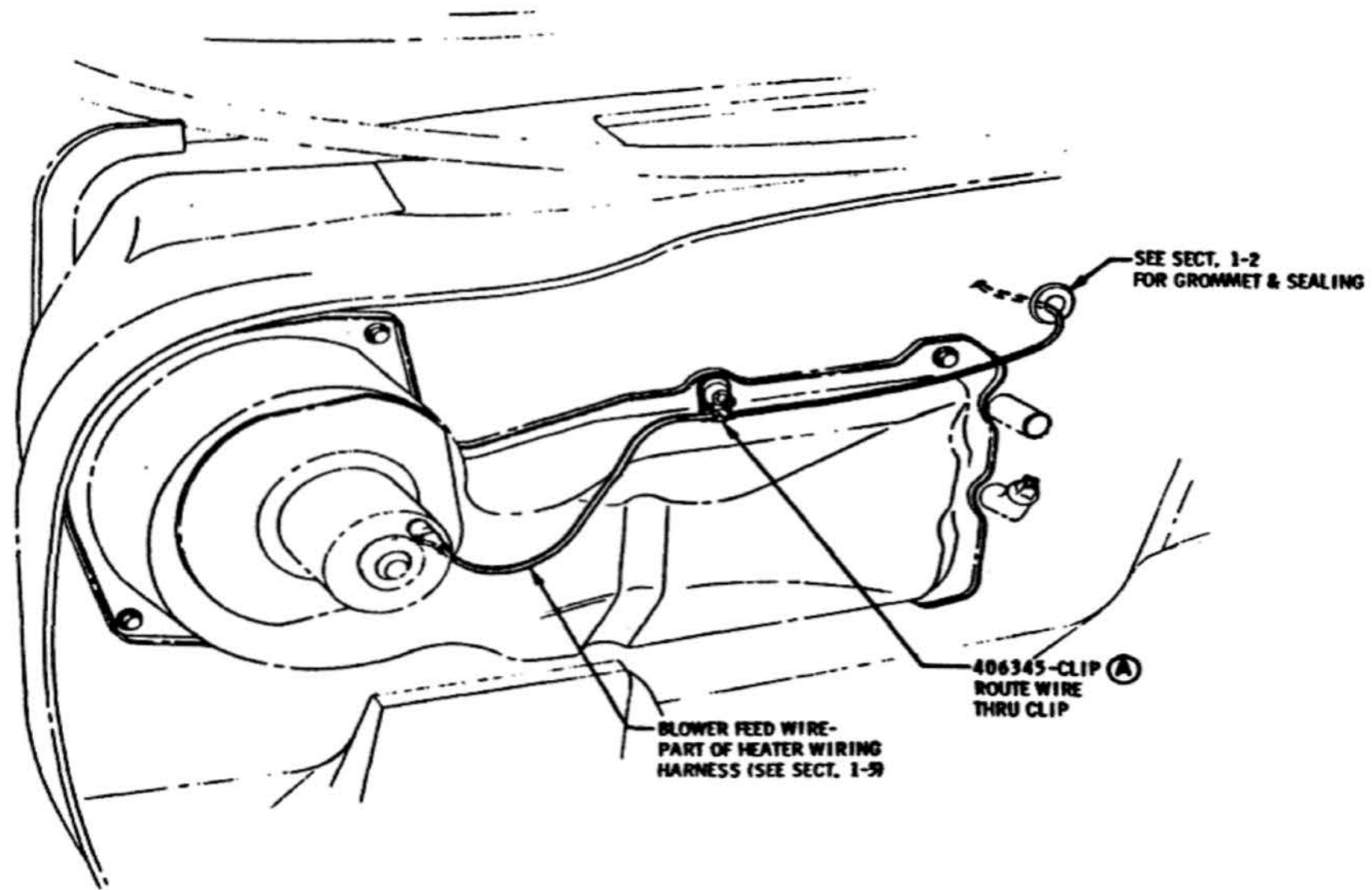
FRONT END WIRING
R.H. SIDE

MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

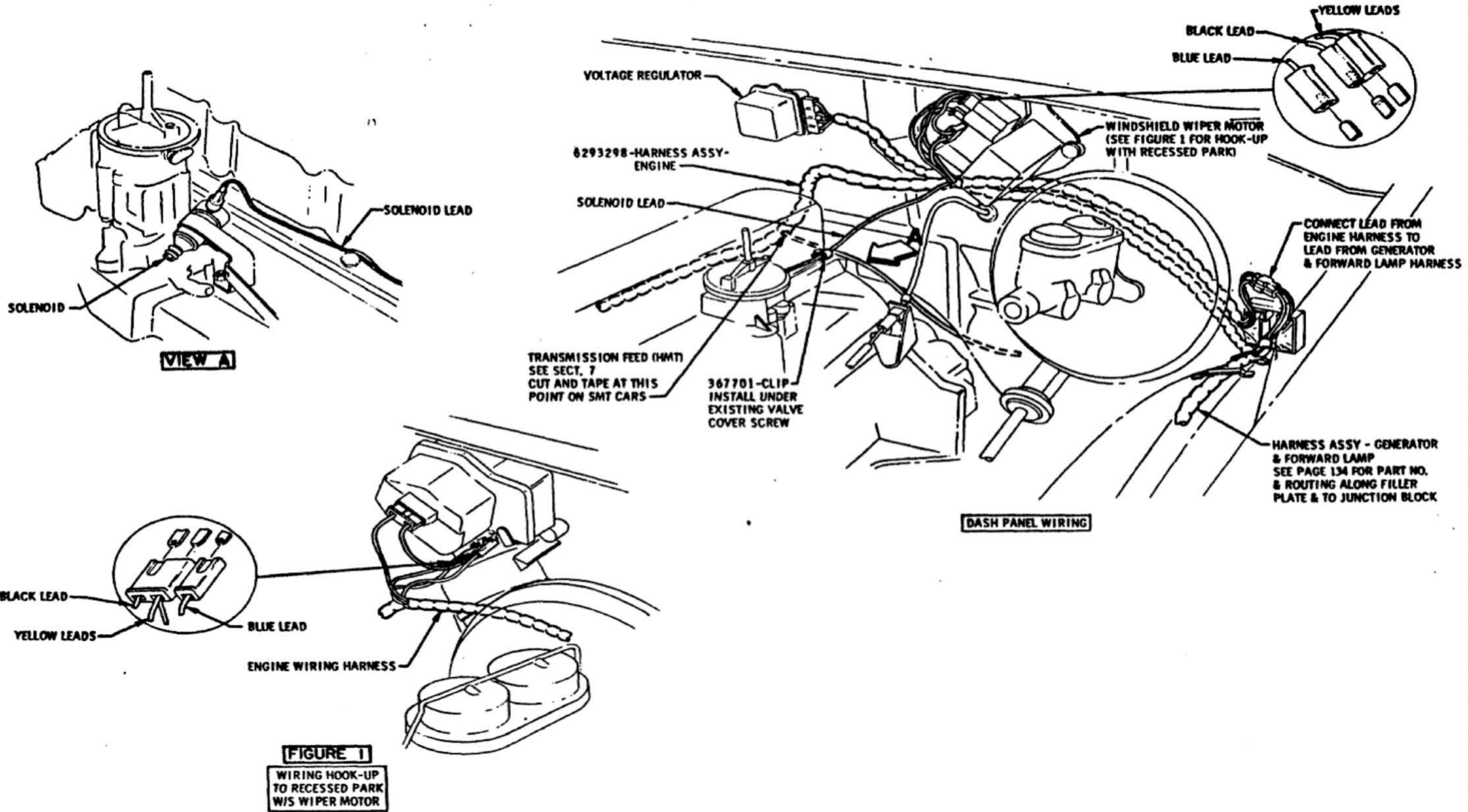
						TITLE HEADLAMP, HORN, TURN SIGNAL AND SIDE MARKER LAMP WIRING				
						DATE APR 19, 1968	FIRST ISSUED 1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL CPT. 12	PAGE 138
						DR. BY P. J. MCKESSY	CHECKED	SERIES A	PART NO. 401900	
						APPR.	REF. 12C 12H			
5-7-69	C	PART NUMBER HO080	3	DT						
8-13-68	D	SCREWS RELEASED	2	DT						
5-17-68	A	WIRE ROUTING REVISED	1	DT						



TITLE V-8 AND L-6 GROUND STRAP INSTALLATION AND COIL WIRING									
DATE	MAR 20 1969	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	12	PAGE	139	
DR. BY	P. J. MCKESSY	CHECKED	<i>[Signature]</i>	REF. 6 V					
APPR.	<i>[Signature]</i>	APPR.	<i>[Signature]</i>	REF. 351163	SERIES	A	PART NO.	401900	
REVISION	33	TORQUES REVISED							
REVISION	A	VIEW ADDED							



										TITLE		BLOWER FEED WIRE	
										DATE		1969	
										DR. BY		P. J. McKESSY	
										CHECKED		T. J. [Signature]	
										APPR.		Schubert	
										FIRST USED		1969	
										REF.		1A2C	
										SERIES		A	
										MANUAL SEC.		12	
										PAGE		140	
										PART NO.		401900	

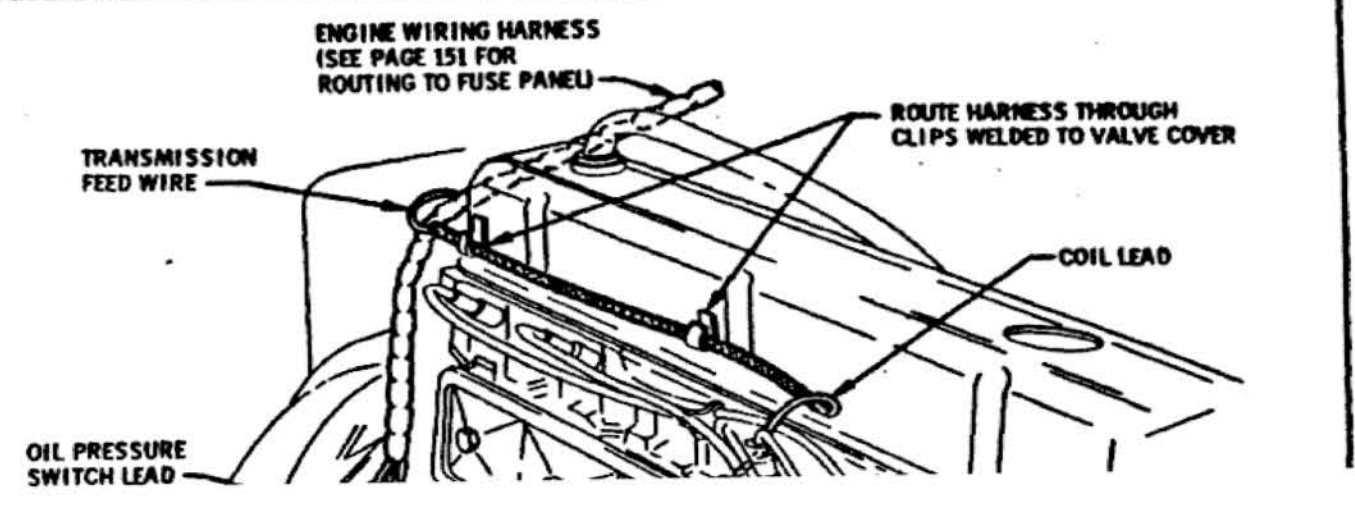
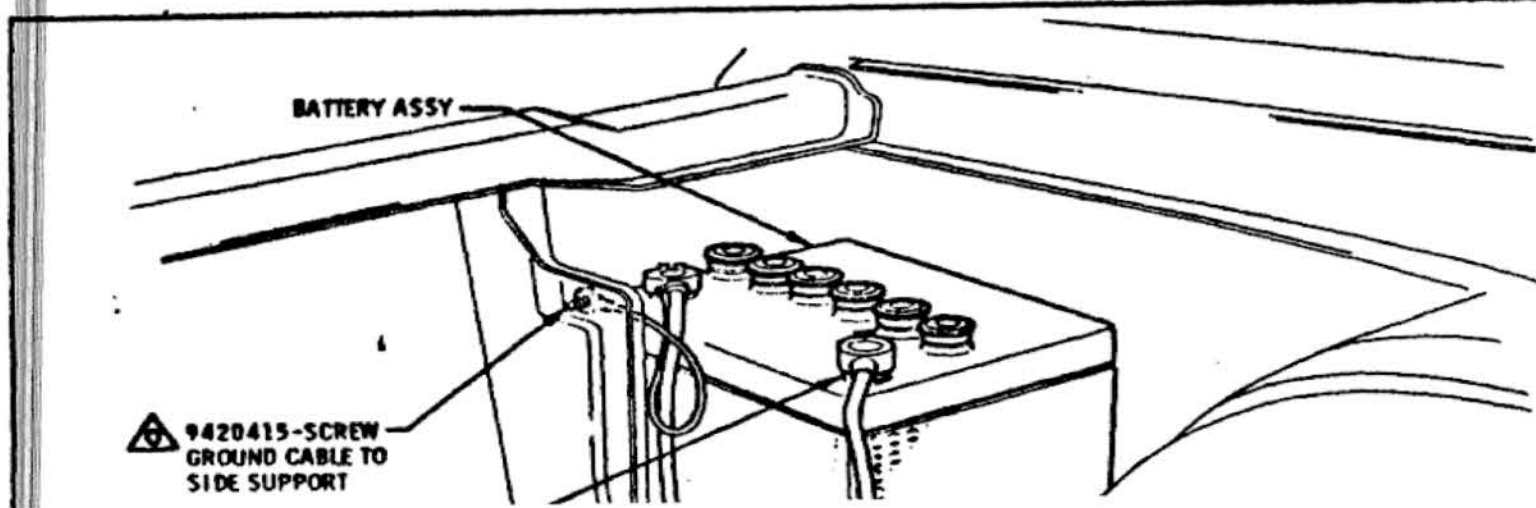


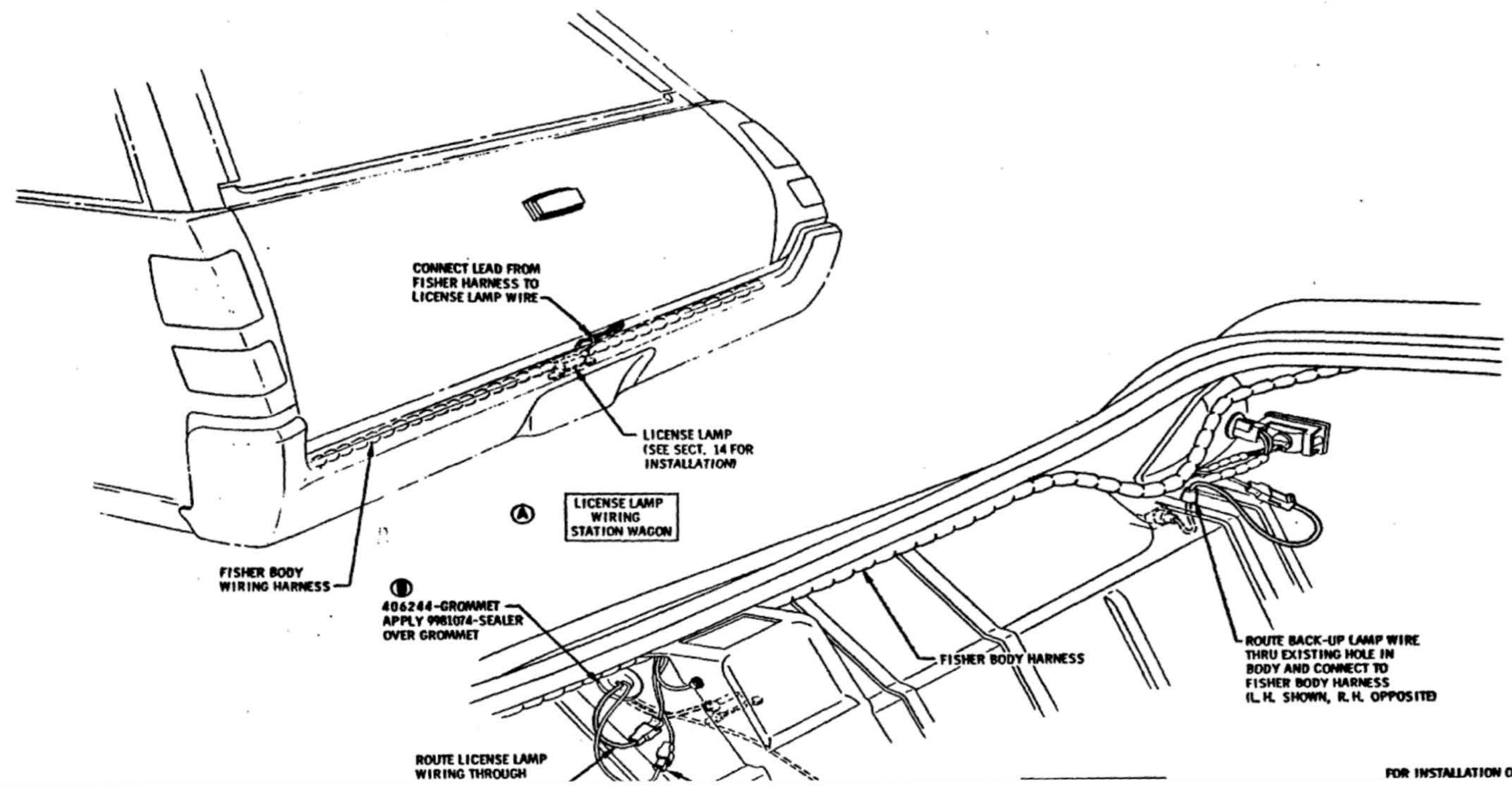
TITLE FILLER PLATE & DASH PANEL WIRING - L6										
DATE <i>MAR. 26 1969</i>					FIRST USED		OLDSMOBILE PRODUCT		MANUAL SEC.	PAGE
DR. BY <i>P. J. McKESSY</i>					1969		INFORMATION MANUAL		12	151
CHECKED <i>[Signature]</i>					REF. 124		SERIES		PART NO.	
APPR. <i>[Signature]</i>							A		401900	
APPR. <i>[Signature]</i> 3/27/68										

OLDSMOBILE DIVISION

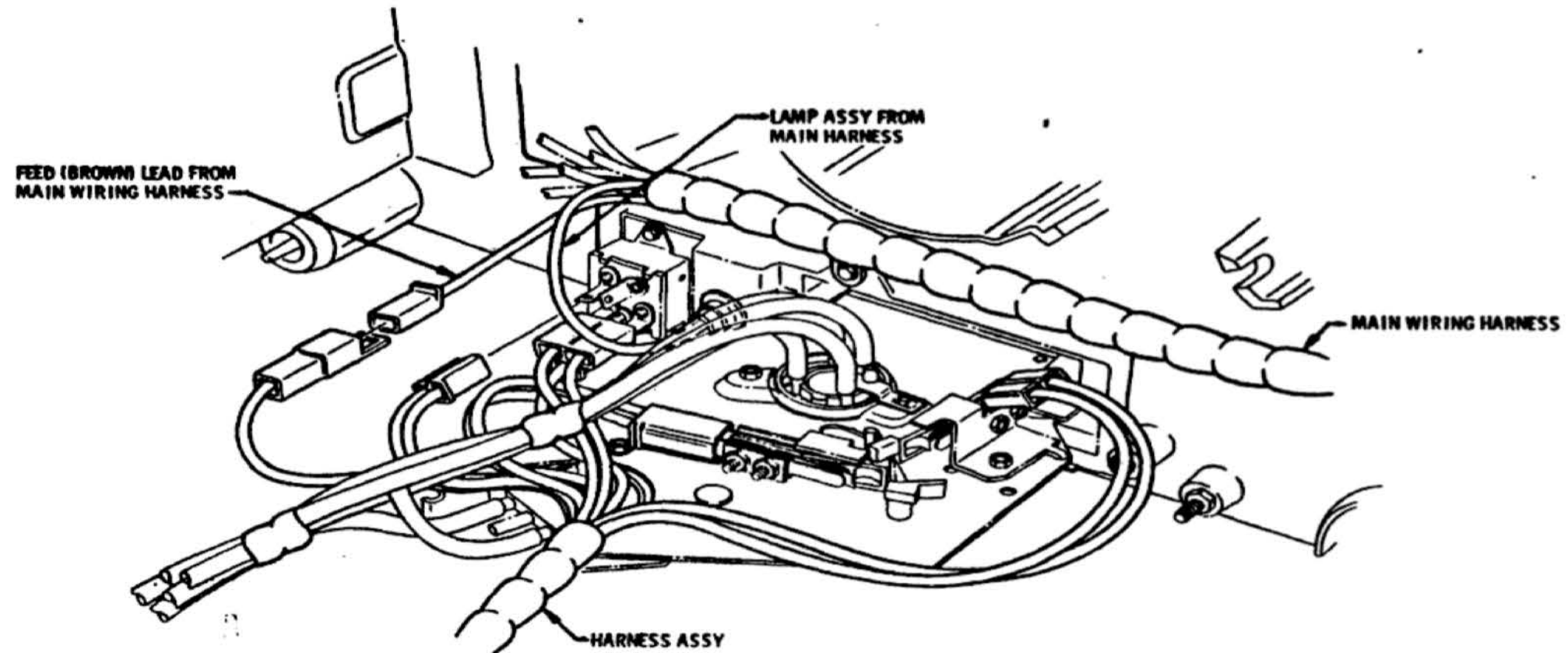
GENERAL MOTORS CORPORATION
LANSING — MICHIGAN

11-240000-000-0000

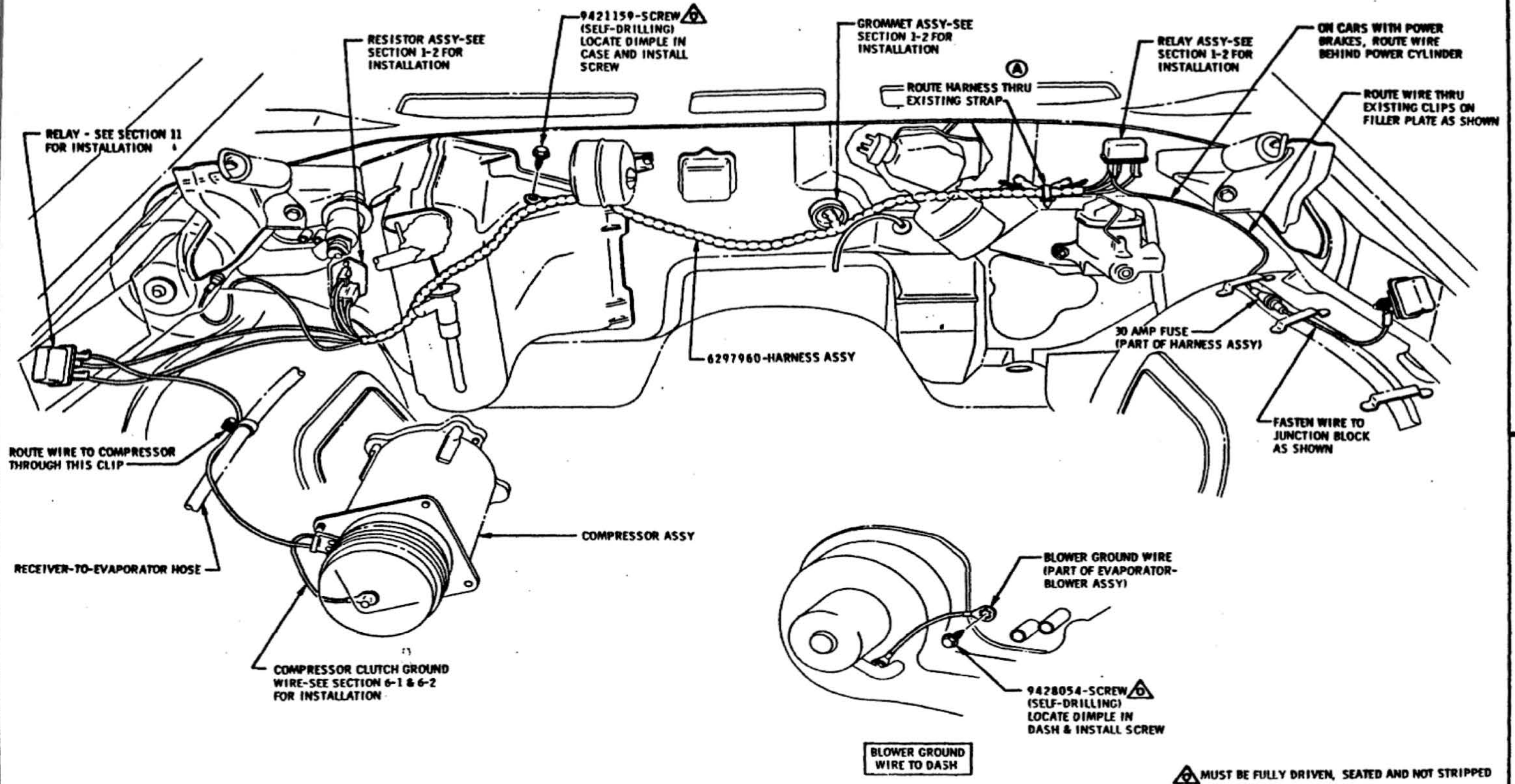




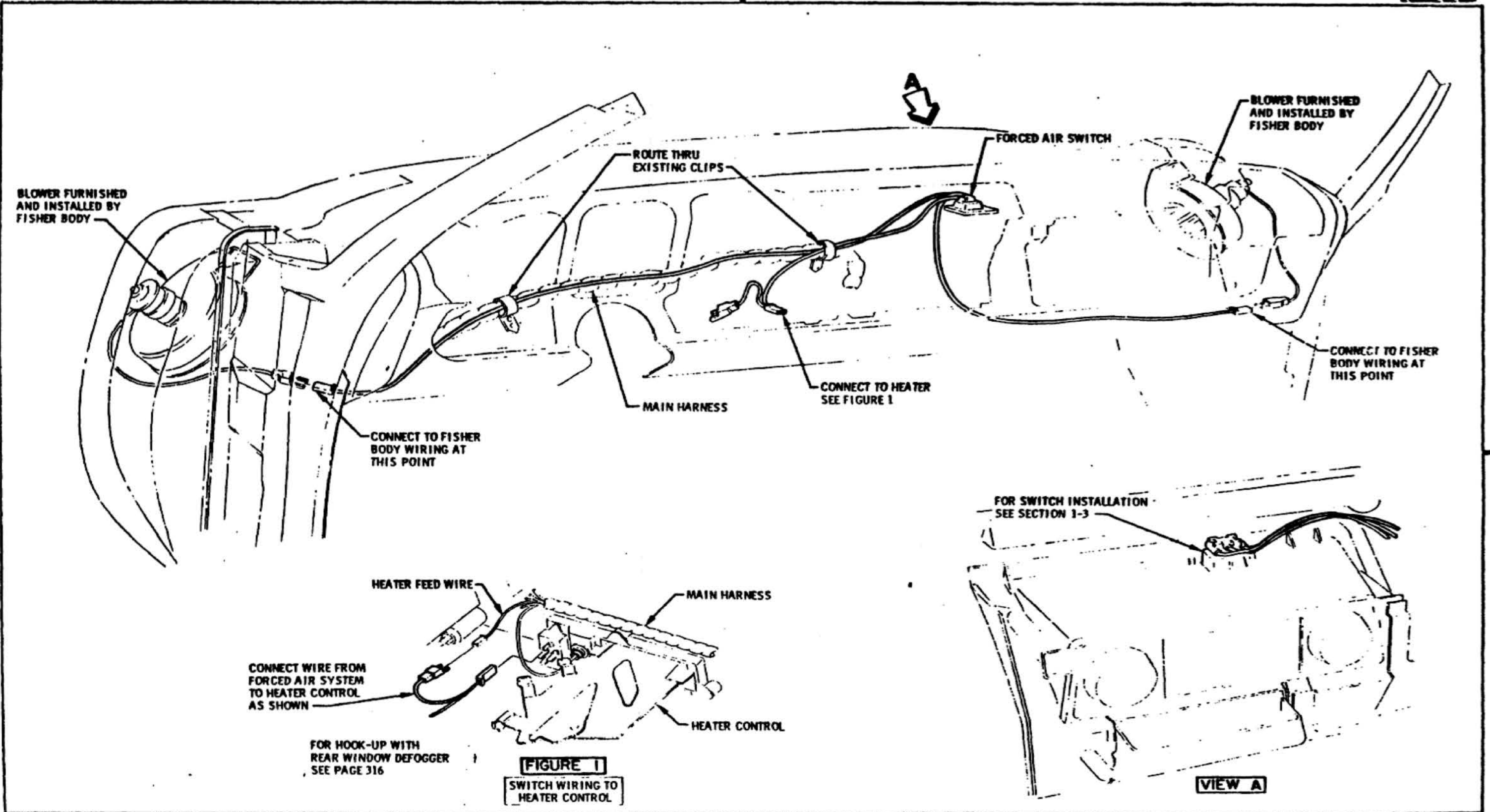
FOR INSTALLATION OF



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
															35C60 CONTROL WIRING	1969	12	215	
															REF. 35C60	SERIES	A	PART NO.	401900
															DATE	DR.	CK.	DATE	SYM.
															APR 8 1968	P. J. McKESSY			
															CHECKED				
															APPR. F. E. H. [Signature]				
															APPR. [Signature]				



TITLE										35C60 WIRE ROUTING (ENGINE COMPARTMENT)							
DATE <i>MAR 20 1968</i>										FIRST USED		MANUAL SEC.		PAGE			
DR. BY <i>P. J. MCKESSY</i>										1969		12		230			
CHECKED <i>[Signature]</i>										REF. 35C60		SERIES		PART NO.			
APPR. <i>H. E. Malin</i>										A		401900					
DATE <i>3-21-68</i> SYM <i>A</i> STRAP ADDED										DR. CK.		DATE SYM		REVISION			
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION



										TITLE FORCED AIR VENTILATION (35C57)						
										DATE	JULY 20 1968	FIRST USED	1969	OLDSMOBILE PRODUCT	MANUAL SEC.	PAGE
										DR. BY	P. J. MCKISSY	REF.	35C57	INFORMATION MANUAL	12	314
										CHECKED	<i>[Signature]</i>	SERIES	A	PART NO.	401900	
										APPR.	<i>[Signature]</i>					
DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	DATE	SYM	REVISION	DR.	CK.	APPR.	

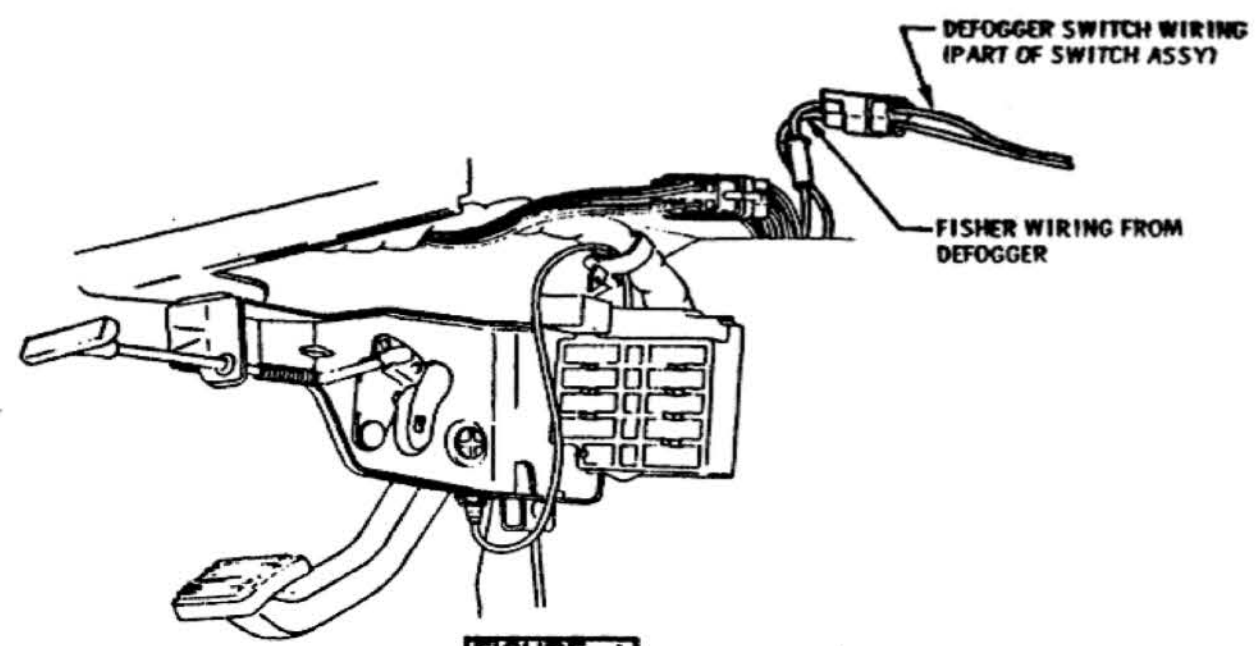
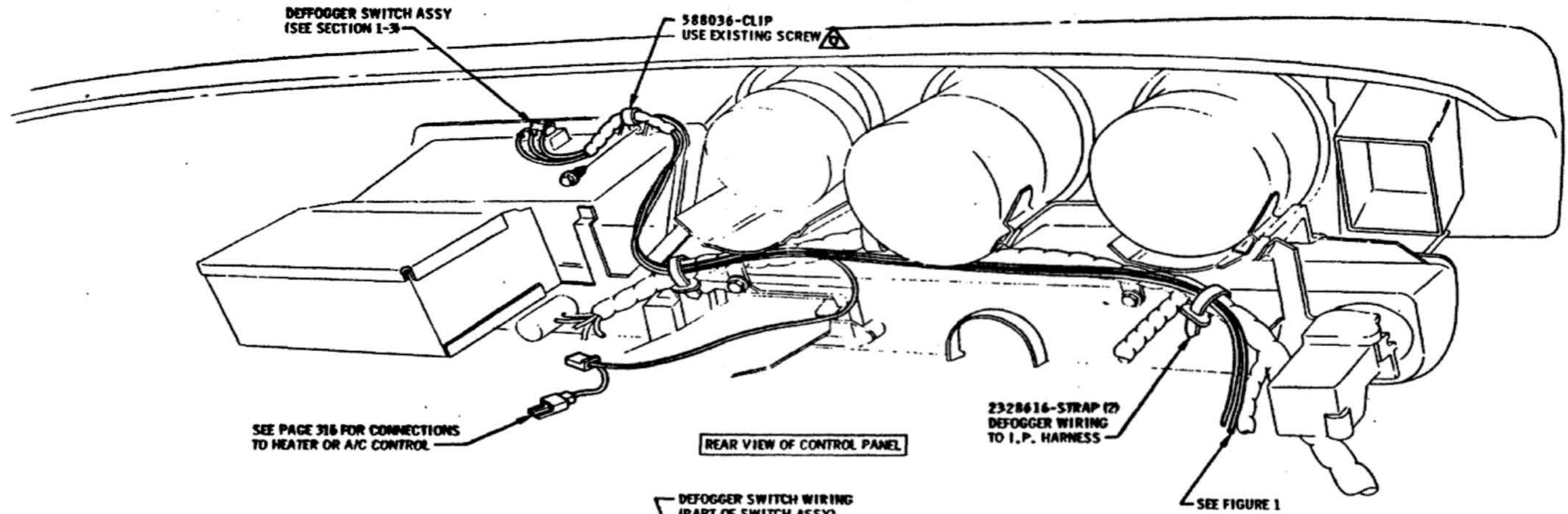
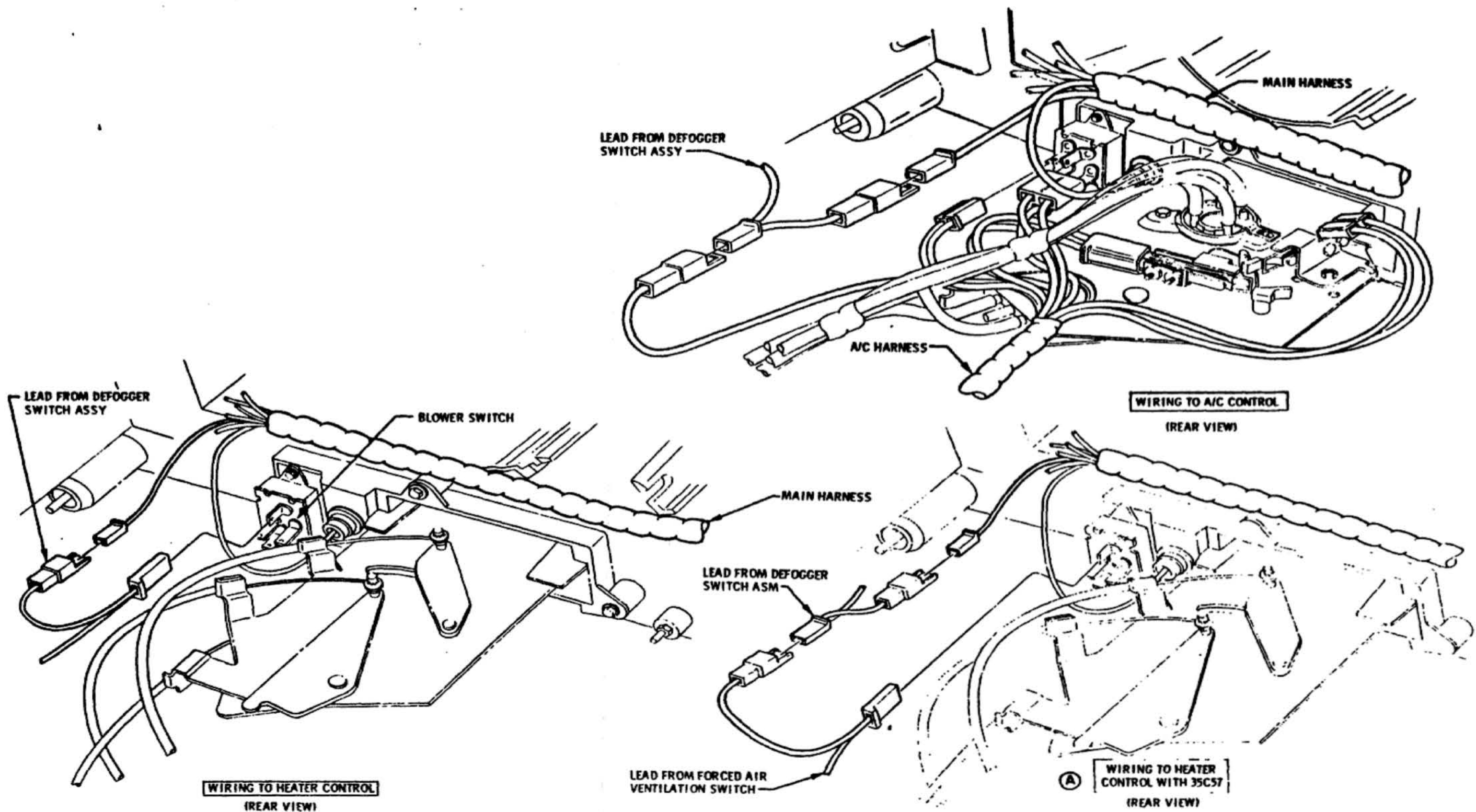


FIGURE 1
 SWITCH WIRING TO FISHER WIRING

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

					TITLE REAR WINDOW DEFOGGER WIRING TO SWITCH					
					DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL		MANUAL SEC.	PAGE
					APR. 21 1968	1969	12		315	
					DR. BY P.J. MCKESSY	REF. 35080	SERIES		PART NO	
					CHECKED	A		401900		
					APR. 21 1968					
					5-8-68					
					RE DRAWN					
					REVISION					



										TITLE		REAR WINDOW DEFOGGER WIRING TO CONTROLS						
										DATE	APR 8 1969	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	12	PAGE	316
										DR. BY	P. J. MCKESSY	CHECKED	J. H. [unclear]	REF. SEC. 50	SERIES	A	PART NO.	401900
										APPR.	S. H. [unclear]	APPR.	[unclear]					
										DR. CK.	[unclear]	DR. CK.	[unclear]					
										REVISION	VIEW ADDED							
										DR. CK.	[unclear]	DATE	[unclear]	SYN				
										REVISION	[unclear]							
										DR. CK.	[unclear]	DATE	[unclear]	SYM				

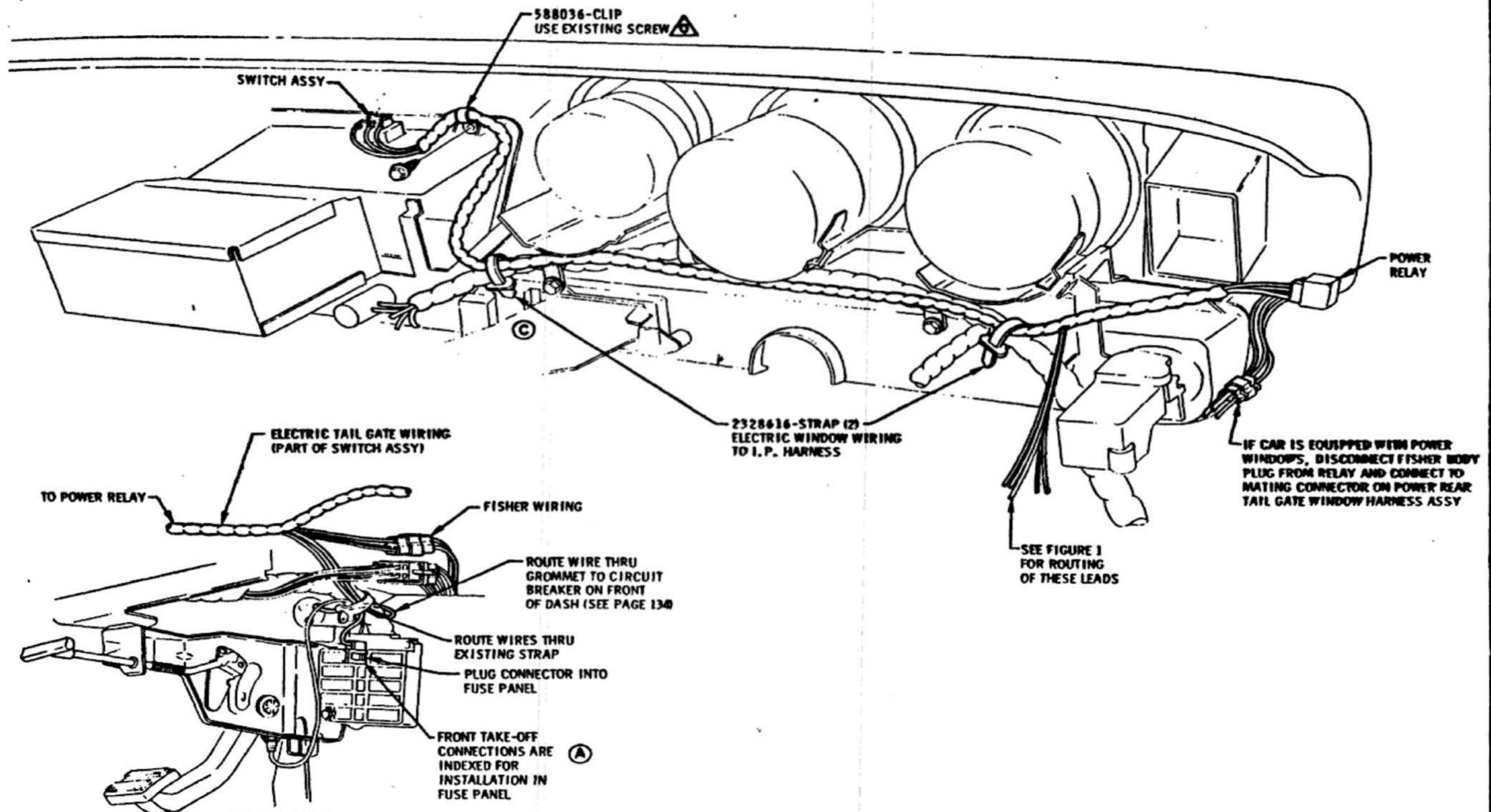
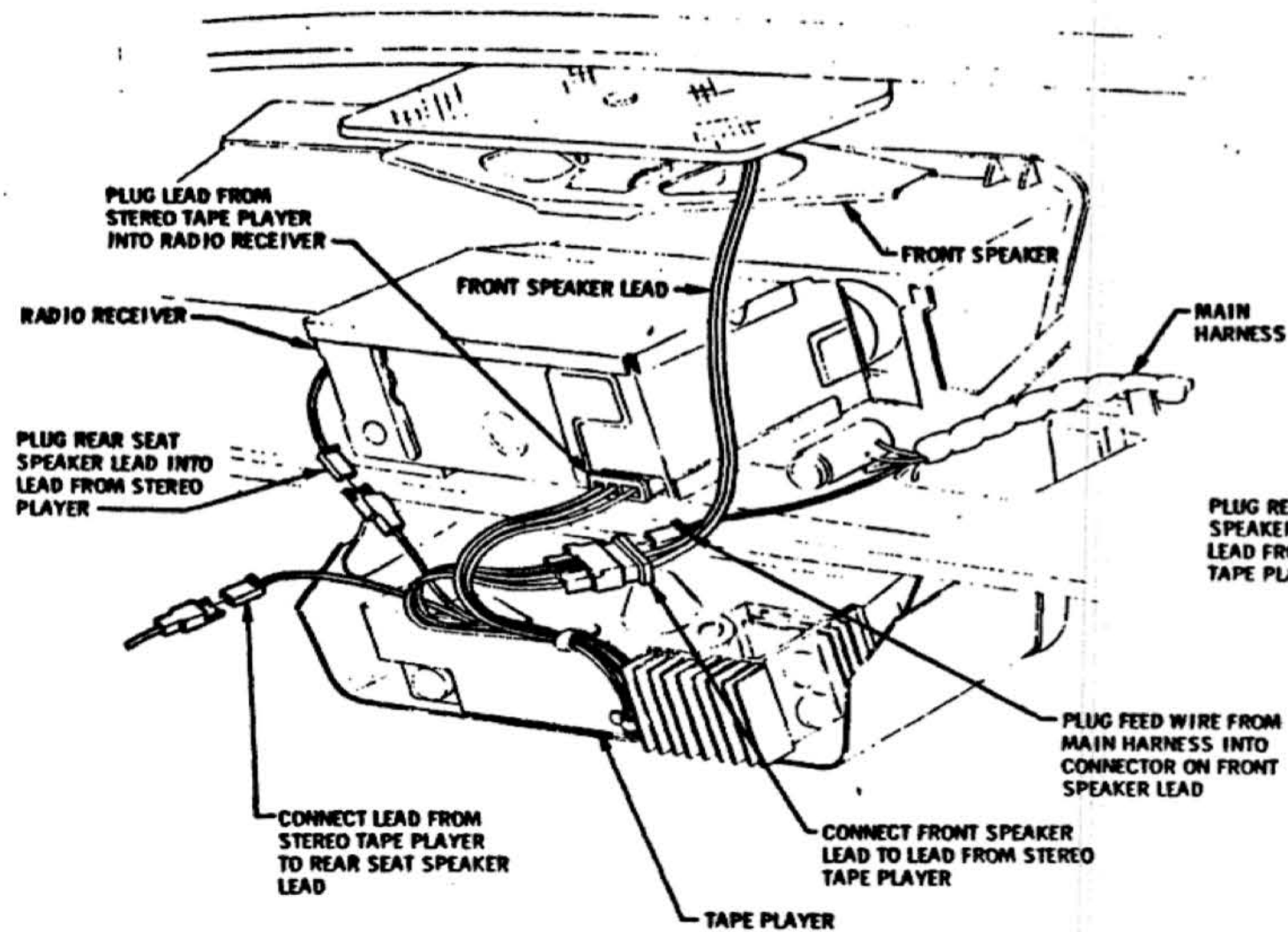


FIGURE 1

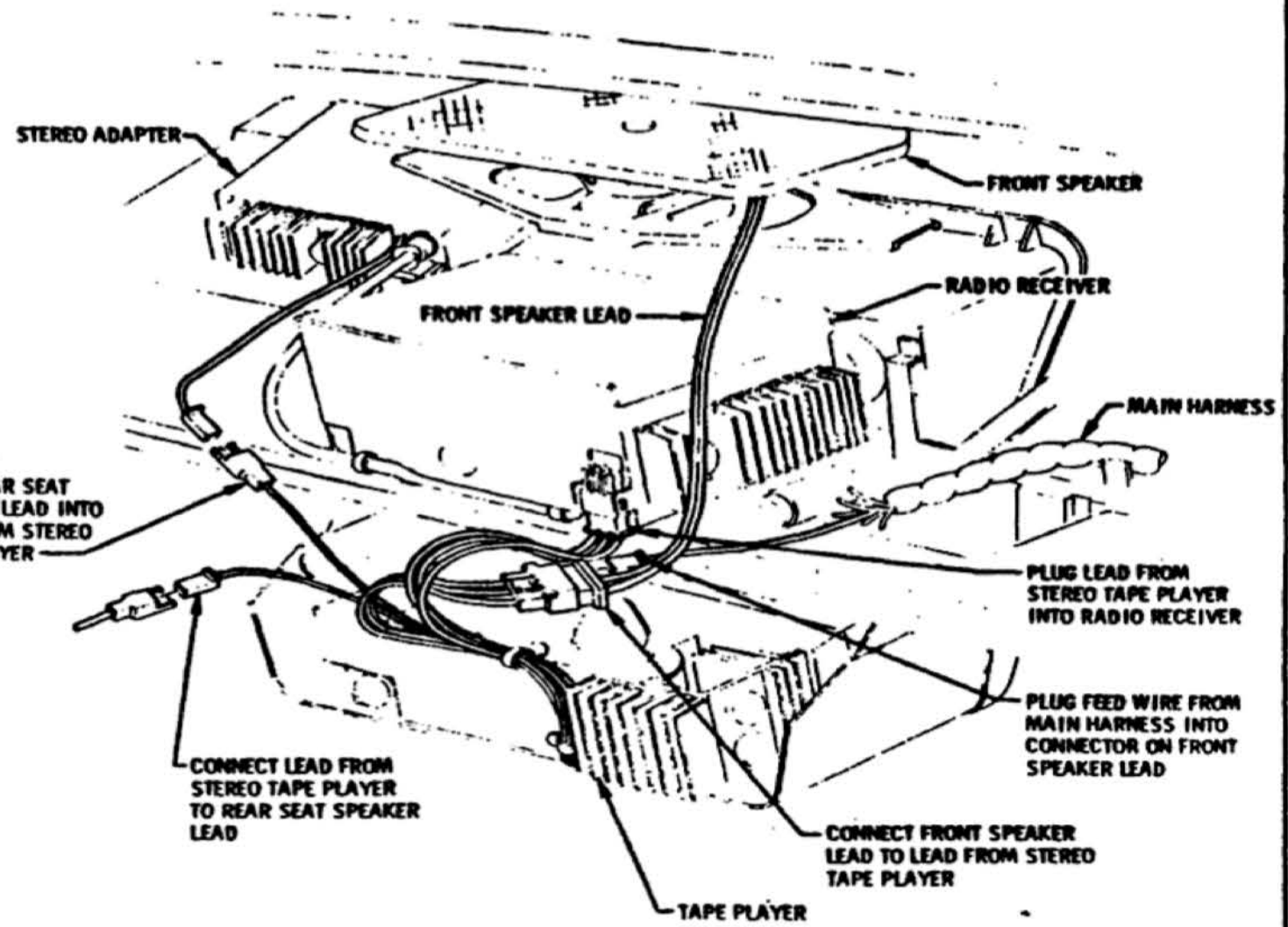
ELECTRIC WINDOW HARNESS TO FISHER WIRING

⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED

				TITLE				ELECTRIC TAIL GATE WINDOW					
				DATE	JAN. 23 1968	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	12	PAGE	321	
				DR. BY	P. J. McKESSY	CHECKED	J. J. J.	REF.	35 A 33	SERIES	A	PART NO.	401900
				1-30-68	A	NOTE ADDED							
				9-2-68	C	STRAP REPOSITIONED							
				9-8-68	B	HEDHAWN							



WIRE ROUTING
EXC. WITH
STEREO RADIO



WIRE ROUTING
WITH
STEREO RADIO

TITLE										STEREO TAPE PLAYER WIRE ROUTING			
DATE	APR 20 1968	FIRST USED	1969	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	12	PAGE	325					
DR. BY	P. J. MCKESSY	REF.	35157	SERIES	A	PART NO.	401900						
CHECKED		APPR.											
APPR.													
DATE	8-15-68	REVISION	A	REVISED AND REDRAWN									
DR. CK.		DATE		SYM		REVISION		DR. CK.		DATE		SYM	



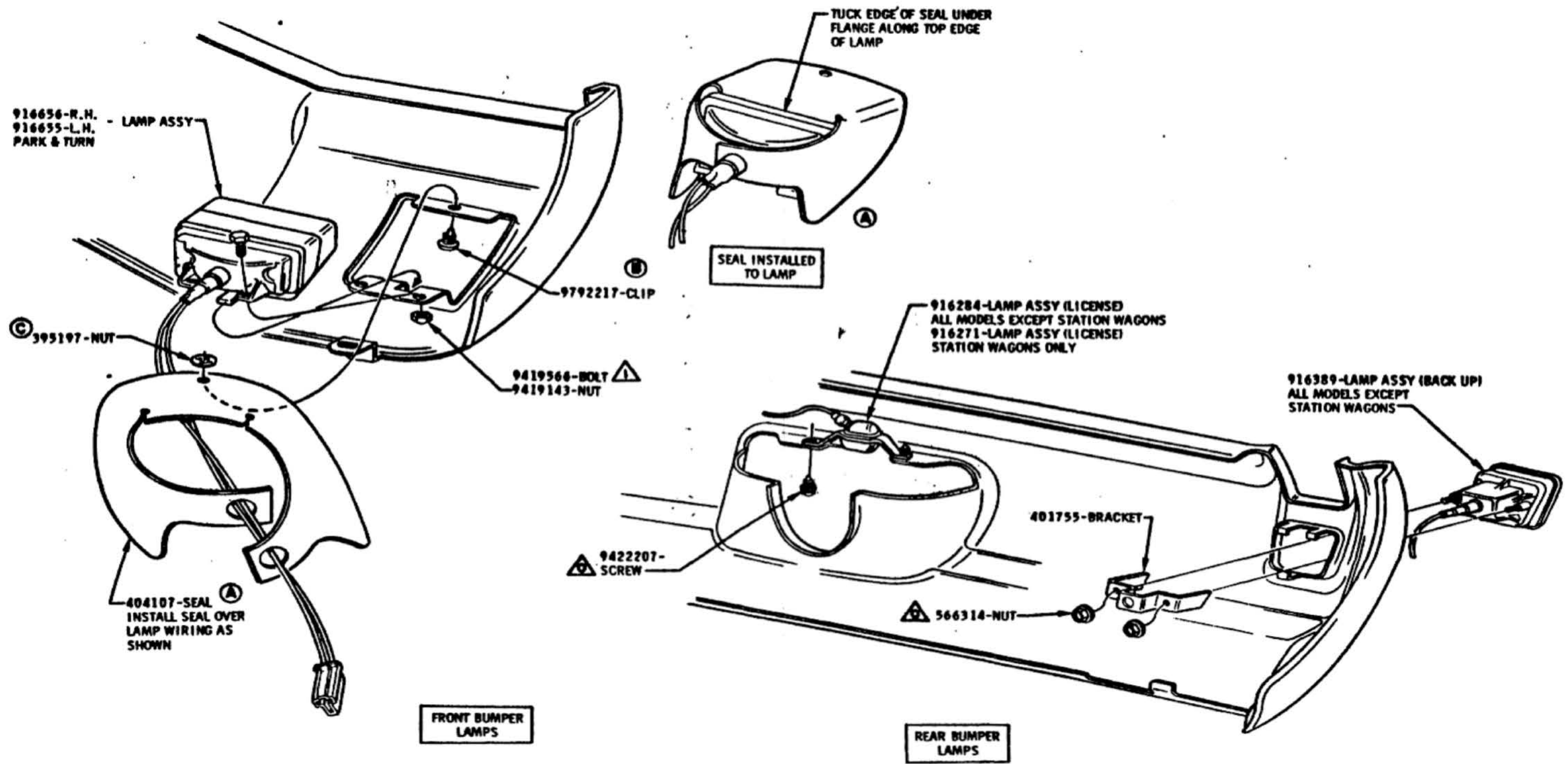
SECTION 14 BUMPERS

- 110 BUMPERS
- 130 FUEL FILLER DOOR
- 135 FRONT LICENSE SUPPORT

DATE 6-17-68

MANUAL NO. 401900

SERIES A



⚠ 60 - 90 LB. IN.
⚠ MUST BE FULLY DRIVEN, SEATED AND NOT STRIPPED.

TITLE										BUMPER LAMPS					
DATE	SYM	REVISION	DR.	CK	DATE	SYM	REVISION	DR.	CK	DATE	SYM	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	MANUAL SEC.	PAGE
												1969		14	120
												REF 12-C	SERIES	A	PART NO.
															401900

4-12-69 C 395197-NUT ADDED
8-29-68 B CLIP DIRECTION REVERSED
5-28-68 A2 SEAL INFO ADDED

DATE JAN. 25, 1968
DR. BY BEAUDOIN
CHECKED JTB
APPR. E. HARRIS

