



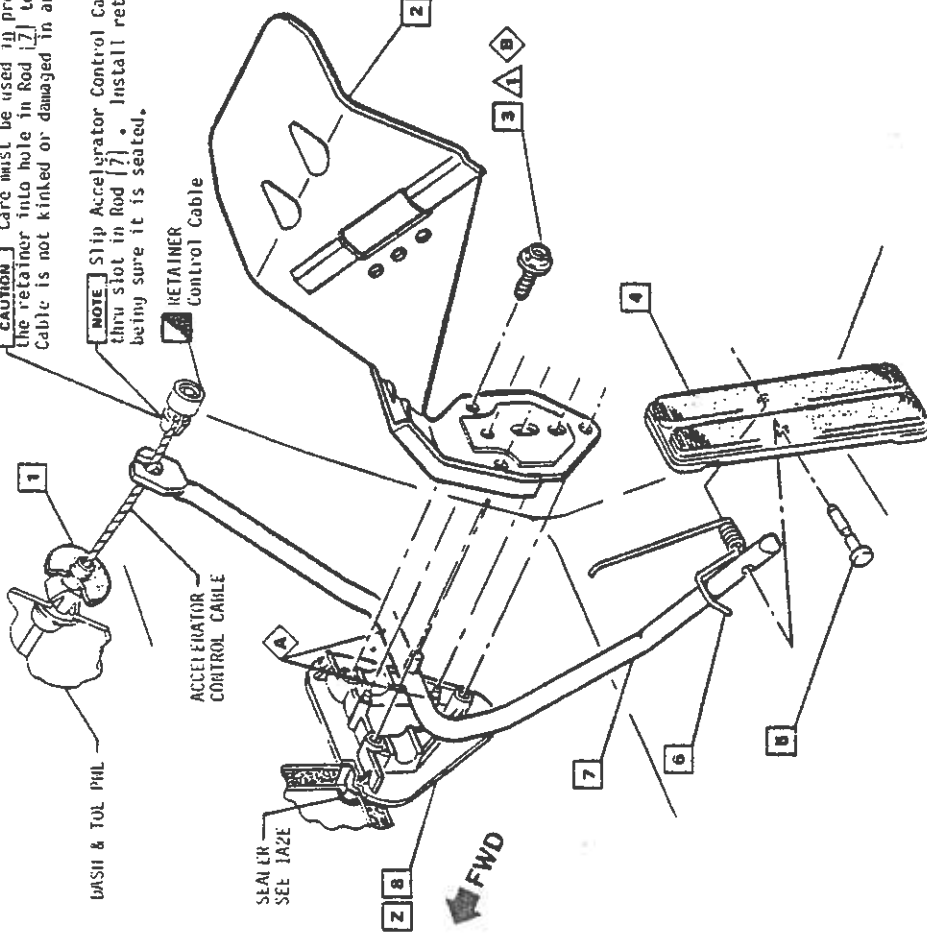
General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL EXISTING AS PART OF

CAUTION Care must be used in pressing the retainer into hole in Rod [7] to assure cable is not kinked or damaged in any way.

NOTE Slip Accelerator Control Cable thru slot in Rod [7]. Install retainers, being sure it is seated.



1	RETAINER	1733519
2	REINFORCEMENT	352229
3	BOLT/SCREEN	11500083
4	PEDAL	3920296
5	PIN	368078
6	SPRING	368077
7	ROD	6264915
8	SUPPORT	3993087
A	LUB-GREASE .01 LBS per job.	9985276
OPT		9985377
B	SEALER Approx .006 LBS per job.	9980664

Z Mounting surface between support and dash panel must be free of insulation.

CAUTION Having secured all components of the accelerator linkage as specified, linkage must operate freely without bind between full closed throttle and full wide open throttle.

DYNAMIC (INCL) m		2.2-4.0	DATE		1/28/80	SWN	1	REVISION	9285377 LUB ADDED	REV	07 FEB 80	DATE	DR R. TAYLOR	DRV	1981 CHEV. "F" 14020867
HAND (INS.) - N m			DATE		3/28/80	SWN	2	REVISION	9980664 WAS 9980669	REV		DATE	(C) <i>John Taylor</i>	DRV	
TITLE		ACCELERATOR CONTROLS-PASS. COMPT													
FACD ALL		FACD ALL													
UPC		1-22344 (S)													
SHEET		6N2 1													
CHEVROLET		CHEVROLET													
REF ECR 86448		REF ECR 86448													
C/O 16J480		C/O 16J480													
6N2-1		6N2-1													

256

FULLY DRYEN, SEATED & NOT STRIPPED

C
 S
 O
 P
 G
 C

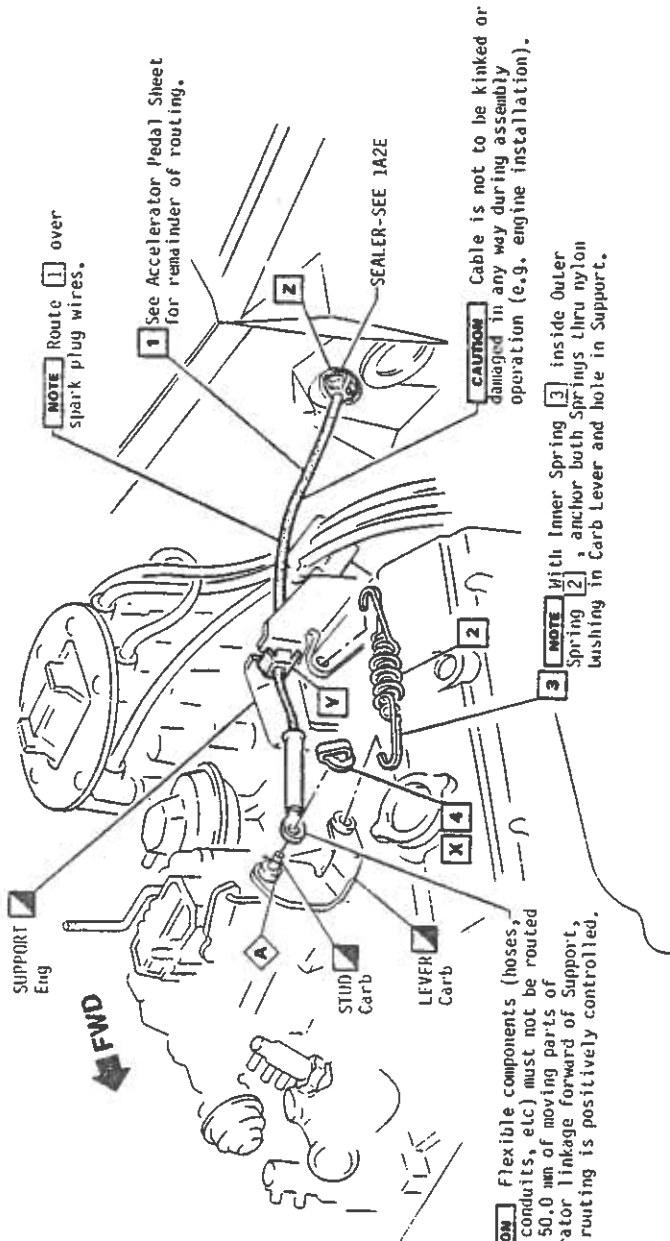


General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- ① 25508907 CABLE ASM
- 340637 SPRING-OUTER
- 340638 SPRING-INNER
- 1247872 RETAINER
- 9985276 LUB-CREASE 0.5 g
- ② 9985377 OPT



- See UPC "0" - "Retainer Instructions".
- Conduit fitting at both ends must have locking lugs expanded & locked in attaching hole.
- The braided portion of the accelerator cable asm must not come in contact with the front of dash sealer during assembly, repair or replacement of the assembly.

DYNAMIC (Historical)		REVISED	REVISION	DATE	BY	CHK	APP	DATE	BY	CHK	APP	DIV	TITLE	UPC	SHEET
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	WAS 1248081 CABLE	1/14/50	J			29FESJ	DE R TAYLOR			CHEVROLET	1981 CHEV. "F" 14020867		2
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	9985377 LUB ADDED	1/11/80	J				CR [Signature]			ACCELERATOR CONTROLS			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								APP 5			86ECR 86448			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								APP			C/O 19FE80			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								APP			1-22344 (S)		6N2	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								APP			6N2-2			

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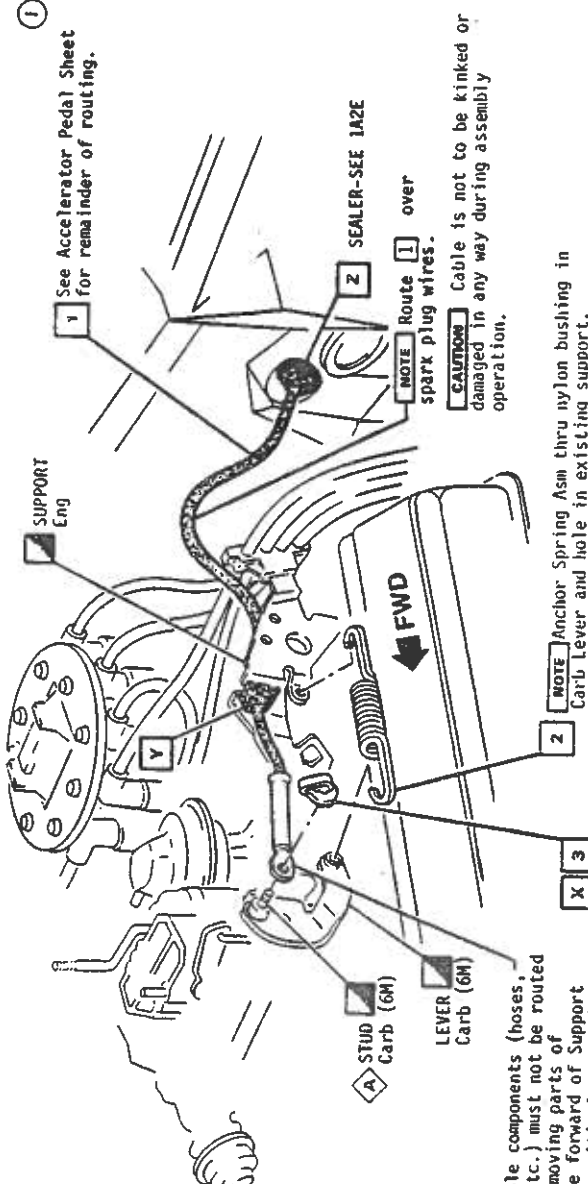
FULLY DRAWN, SEALED & NOT STRIPPED

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION

- 1 12480816 CABLE ASM
- 2 14024945 SPRING ASM
- 3 1247872 RETAINER
- A 9985276 LUB-GREASE
0.5 g-Stud Shaft
- Ⓜ 9985377 OPT

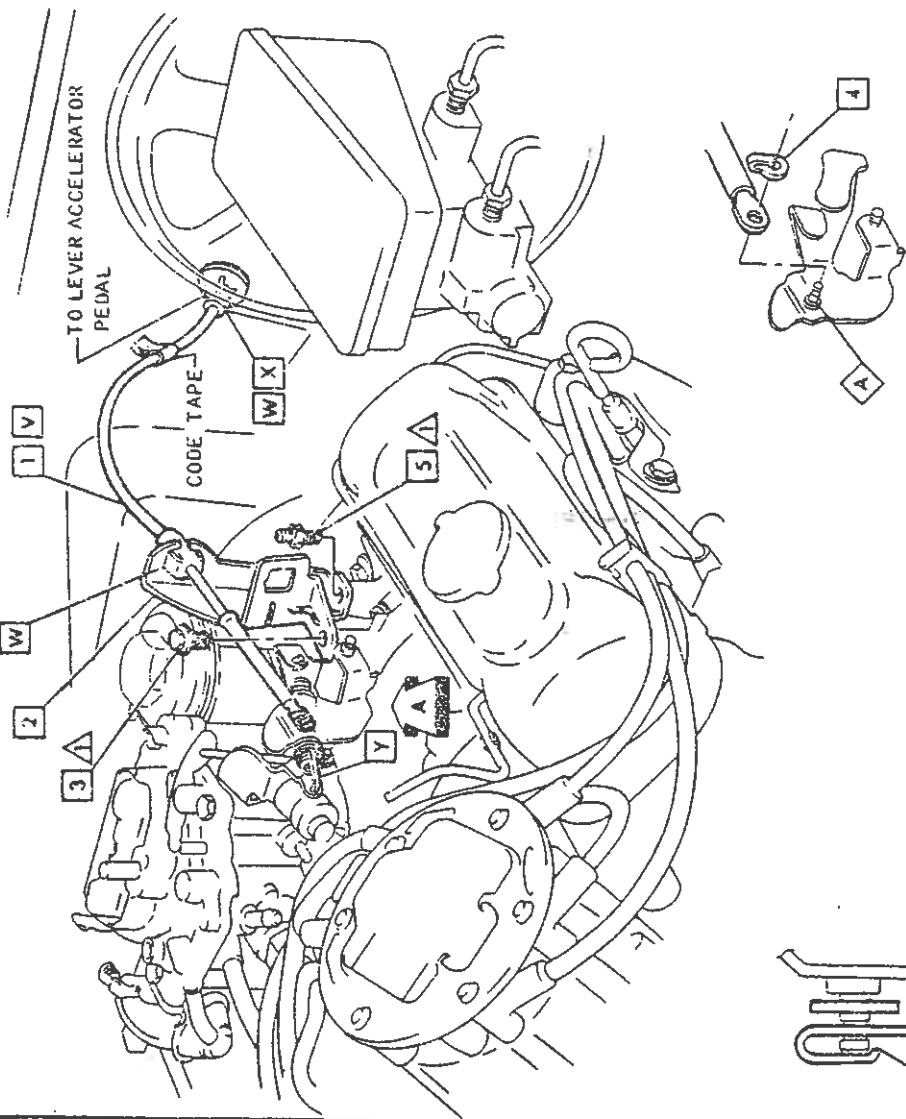


X See UPC "0"-RETAINER INSTRUCTIONS*

Y Conduit fitting at both ends must have locking tangs expanded & locked in attaching hole.

Z The braided portion of the accelerator cable asm must not come in contact with the front of dash sealer during assembly, repair or replacement of the assembly.

DYNAMIC (paste)	DATE	SYN	REVISION	DATE	BY	CHK	APP	DATE	DIV	TITLE	REV	BY	DATE	SHEET
△	1/24/80	1	9985377 LUB ADDED		R.C. TAYLOR				CHEVROLET	ACCELERATOR CONTROLS				1
△					(R. K. ...)				CHEVROLET	FA00 8L39				2
△					APP (S)				REF ECR 86448					3
△					APP				NEW 11MR80					
△					APP									
△					APP									
258														
FULLY ORDERED, SEALED & HOT STAMPED														
G X 0 0 0 P X Ca														



VIEW OF FASTENER

- 12-4176 1 CABLE ASM - ACCEL CONT (CODE ON)
- 25505161 2 BRACKET
- 94-31423 3 ROLT/SCREEN
- 12-17872 4 FASTENER
- 25509038 5 STUD
- 9985276 A GREASE
- 9985377 A OPT.

- V 1. ACCELERATOR CABLE MUST BE INSTALLED IN THE BODY PRIOR TO ASSEMBLY TO THE ENGINE.
2. ACCELERATOR CABLE MUST NOT BE SUBJECTED TO SHARP BENDS DURING INSTALLATION.
3. ACCELERATOR CABLE MUST BE ROUTED SMOOTHLY & FREELY OF WIRES, HOSES, OR OTHER OBSTRUCTIONS BETWEEN CONDUIT FITTINGS.
- W CONDUIT FITTING AT BOTH ENDS MUST HAVE LOCKING TANGS EXPANDED & LOCKED IN ATTACHING HOLES.
- X THE BRAIDED PORTION OF THE ACCELERATOR CABLE ASM MUST NOT COME IN CONTACT WITH THE FRONT OF DASH SEALER DURING ASSEMBLY, REPAIR, OR REPLACEMENT OF ASM.
- Y INSTALLED IN ENGINE PLANT.
- Z FASTENER MUST BE INSTALLED WITH TANG SECURED OVER HEAD OF STUD.

DATE	SIM	REVISION	REV	BY	CHK	DATE	DIV
07/26/80	1	ISSUED				04/30/80	DMAC DORMOTT
11/06/80	2	WAS 9437726 BOLT					CE Miller
		WAS 9990589 STUD					APR
							APR
							APR
							APR
							APR

1981 CHEV. "F" 14020867		CHEVROLET		REF LCR 86448	UPC 6N2	SHEET 5
THRU			ACCELERATOR CONTROLS-ENGINE COMPARTMENT			
FA00 & L05			-			
-			-			
-			-			
-			6N2-1 RT			
<p>260</p> <p>VIEW OF FASTENER</p> <p>APR</p>						

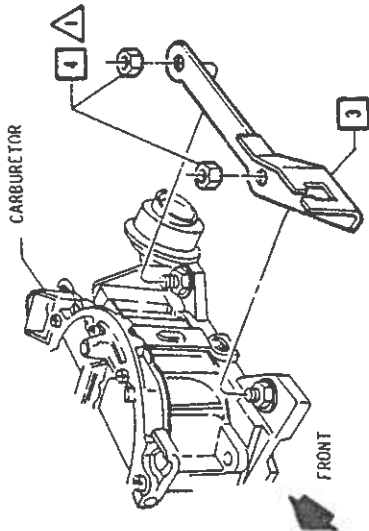
EQXBXDXPXGX

PONTIAC MOTOR DIVISION
General Motors Corporation
Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

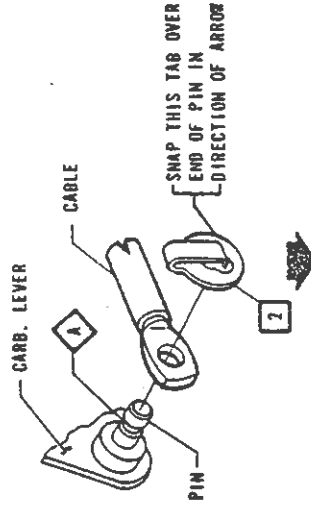
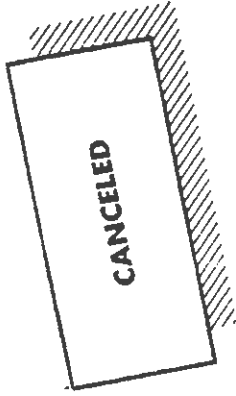
ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 1254896 1 CABLE ASM.
- 1247872 2 FASTENER
- 10012929 3 BRACKET
- 9418892 4 NUT
- 9985276 A GREASE
- 9985377 A OPT

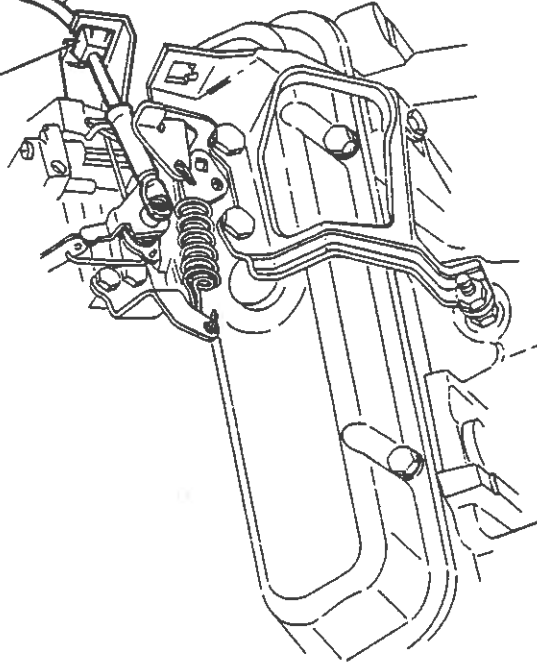


VIEW A

SNAP CABLE SECURELY TO THROTTLE BRACKET TO DASH



CABLE TO CARB. LEVER



DYNAMIC (POST-1960) / RAND (PRE-1960) / Km		DATE	SYM	ISSUED	REVISION	AUTH	DI	CE	AM	DATE	DIV	TITLE	DATE	TYPE	SHEET
14-19		1/27/79		ISSUED		86-949 (C)				18.0C.79	CHEVROLET	1981 CHEV. "F" 14020867			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	86-949 (C)				REG. M. VERSTRAETE		ACCELERATOR CONTROLS-ENG COMPARTMENT			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	89136 (C)				J.E.B.		FAOHI 8LUB			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	91271 (C)				APP S					
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					APP					
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					APP					
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					APP					
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					APP					
												REF ECR 86448	21-77200		
												C/O 11DE79			
												6N2-3 RT			
														6N2	6

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FULLY DRIVEN SEATED & HOOD STRIPPED

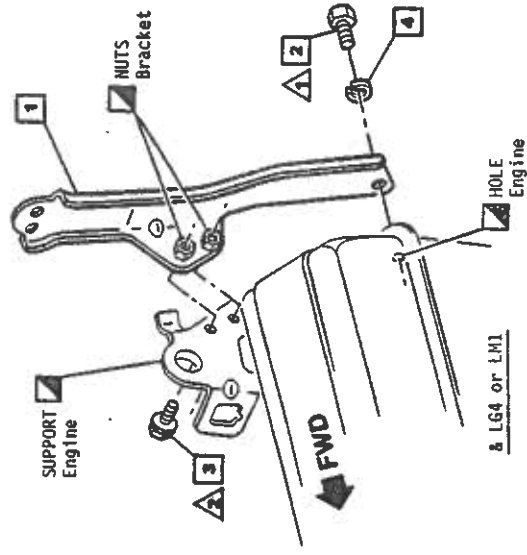
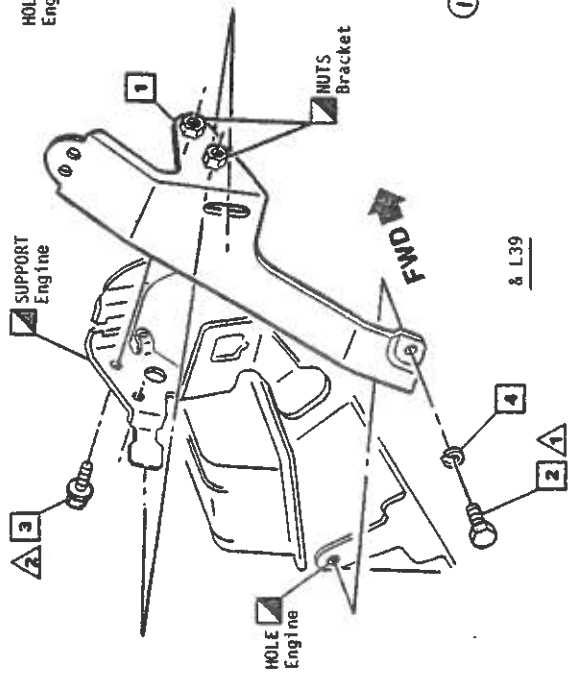
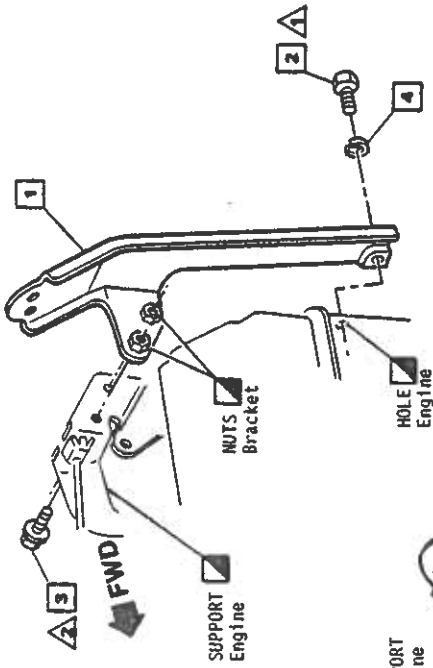


General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- | | | |
|----------|-------------------------------------|-------------|
| 14009117 | <input checked="" type="checkbox"/> | BRACKET ASM |
| 14009123 | <input checked="" type="checkbox"/> | & LC3 |
| 14009118 | <input checked="" type="checkbox"/> | & L39 |
| 9428638 | <input checked="" type="checkbox"/> | BOLT/SCREW |
| 9433256 | <input checked="" type="checkbox"/> | BOLT/SCREW |
| 103321 | <input checked="" type="checkbox"/> | WASHER |



(1) **NOTE** Assemble (3) loosely. Assemble (2) & (4) and tighten to specified torque. Tighten (3) to specified torque.

DYNAMIC (kpm)H-m	HAND (imp.)	N-m	DATE	SYN	REVISION	DATE	BY	CHK	OR	DATE	BY	DIV	ITEM	NO.	REV	
△ 26-40	△ 7.0-10.0	(2)	2/20/82		1 TORQUE NOTE ADDED					08/29/80		CHEVROLET	1981 CHEV. "F" 14020867	1	1	
△ 7.0-10.0	△				2 TORQUE (2) WAS 7.0-9.0					09/17/80		CHEVROLET	CRUISE CONTROL SERVO UNIT BRACKETS FA00 & LC3/L39/LG4/LMI&K35	6N4	1	
△	△												21192 (S)	6N4	1	
△	△												22283 (S)			
△													86448			
													16J480			
													6N4-1			
FULLY DRIVEN, SEATED & NOT STOPPED																
Ca																

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PONTIAC MOTOR DIVISION
 Pontiac, Michigan
 General Motors Corporation

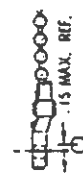
PRODUCT DESCRIPTION MANUAL
 EXISTING AS PART OF

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

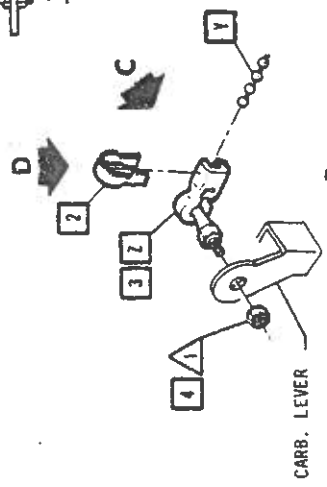
- 25031056 1 SERVO ASM.
- 1241089 2 RETAINER
- 1243007 3 SWIVEL ASM.
- 9420418 4 NUT
- 10014856 5 BRACKET & PULLY ASM.
- 11504874 6 BOLT/SCREW



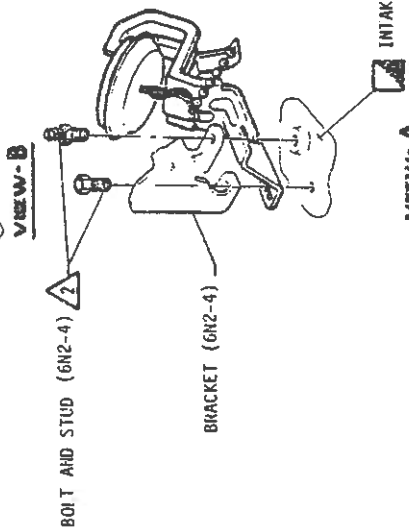
VIEW-C
 (RETAINER INSTALLED)



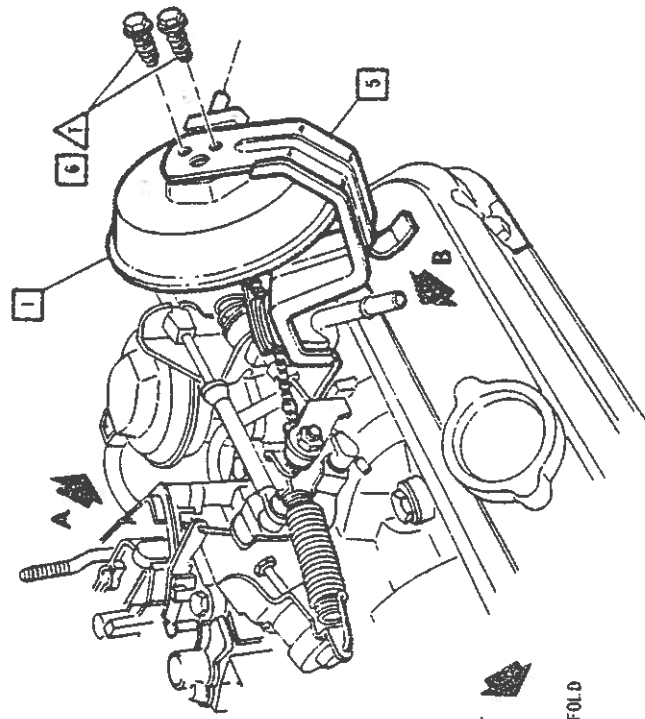
VIEW-D



VIEW-A



VIEW-B



Y ASSEMBLE CHAIN TO BE TAUT WITH CARB IN THE HOT IDLE POSITION & WITH THE IDLE CONTROL SOLENOID DE-ENERGIZED. PLACE CHAIN INTO SWIVEL CAVITIES WHICH PERMIT CHAIN TO HAVE SLIGHT SLACK. PLACE RETAINER OVER SWIVEL & CHAIN ASM. RETAINER MUST BE POSITIONED TO REST BETWEEN BALLS. VIEW-C CUT OFF CHAIN FLUSH WITH SIDE OF SWIVEL TO REMOVE EXCESS LENGTH. CHAIN SLACK NOT TO EXCEED ONE HALF DIAMETER OF BALL STUD (.15) WHEN THE IDLE CONTROL SOLENOID DE-ENERGIZED & SWIVEL DISCONNECTED FROM BALL STUD. REFERENCE VIEW-D.

Z BALL SWIVEL MUST BE INSTALLED ON THE INBOARD SIDE OF LEVER.

DYNAMIC (lb/in) H = 3.4 - 4.6 20 - 34 ▲ ▲ ▲ ▲ ▲		DATE 11/18/80	SWM ISSUED	REVISION	AUTH 86418 RCT/RE	DR G. M. VERSTRACTE	DATE 29-JA-80	DIV CHEVROLET	1981 CHEV. "F" 14020867
FULLY DRIVEN SEATED & NOT STRIPPED <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> X <input type="checkbox"/> D <input type="checkbox"/> O <input type="checkbox"/> P <input checked="" type="checkbox"/> X <input type="checkbox"/> G		2.03			CRUISE CONTROL-SERVO UNIT FA00 & LD5 & K35		ECR 36448 NEW 24080 614-5 RT		SHEET 6N4 2

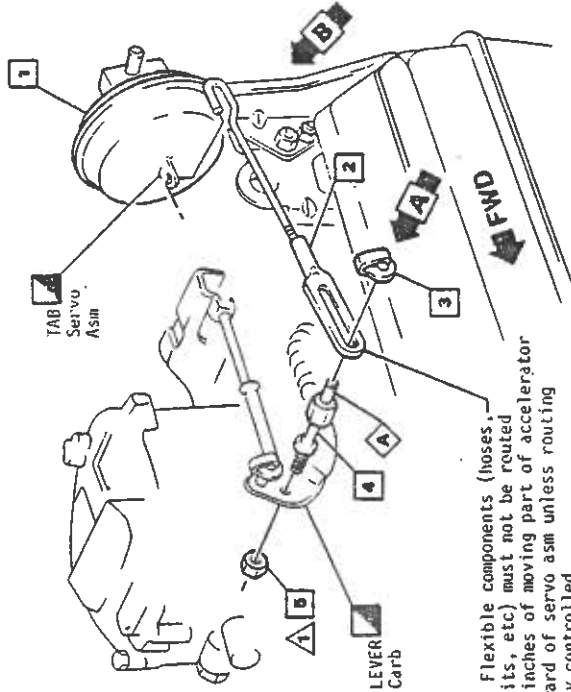


General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

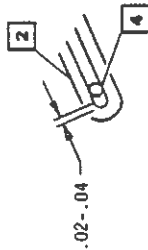
ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- | | | |
|----------|----------|---------------------|
| 25030594 | 1 | SERVO ASM |
| 14009156 | 2 | ROD ASM |
| 14009155 | 2 | & LG4 or LMI |
| 1247872 | 3 | RETAINER |
| 376231 | 4 | STUD |
| 9417954 | 5 | NUT |
| 11504874 | 6 | BOLT/SCREW |
| 9985276 | A | LUB-GREASE .0005 kg |
| 9985377 | A | Stud-Shaft |
| | A | OPT |

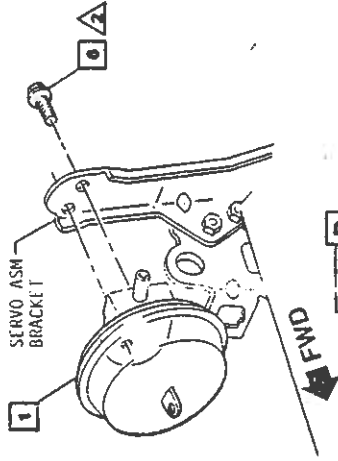


CAUTION Flexible components (hoses, wires, conduits, etc) must not be routed within 2.00 inches of moving part of accelerator linkage forward of servo asm unless routing is positively controlled.

BLMI SHOWN
8LC3/L39/LG4 TYPICAL



VIEW A



VIEW B

SERVO ASM TO CARBURETOR ADJUSTMENT

With ignition off and fast idle cam off and throttle completely closed, hook [2] through tab on servo asm. Adjust length so that [2] assemblies over end of [4] as shown (See View A). Install [3].

DATE	SYN	REVISION	AUTH	DR	OR	CK	CHK	DATE	BY	DATE	BY	DATE	BY
12-17				R. C. TAYLOR				10/25/80					
1-2 - 2.0				<i>Chris King</i>									
284													

1981 CHEV. "F" 14020867			
TITLE		CRUISE CONTROL -	
SERV. ASM		FA00 8LC3/L39/LG4/LMI 8K35	
EPC		1-21'82(S)	
EPC		6N4	
SHEET		3	

FULLY DRIVEN, SEALED & NOT STRIPPED

10 1 Ca

PONTIAC MOTOR DIVISION

General Motors Corporation Pontiac, Michigan

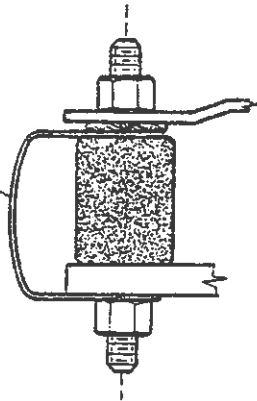
PRODUCT DESCRIPTION MANUAL

□ ITEM REFERENCE ◇ PROCESS MATERIAL △ TORQUE ▣ EXISTING AS PART OF

- 1 TRANSDUCER ASM.
- 2 BRACKET
- 3 NUT
- 4 INSULATOR
- 5 WASHER
- 6 BOLT/SCREW
- 7 STRAP
- 8 SOLENOID ASM.

- + 25030564
- + 10013733
- + 9419143
- + 6466623
- + 121753
- + 11504115
- + 6466624
- + 25031090

7 (REF.)



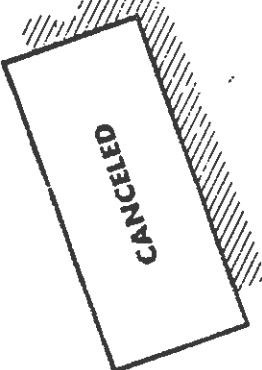
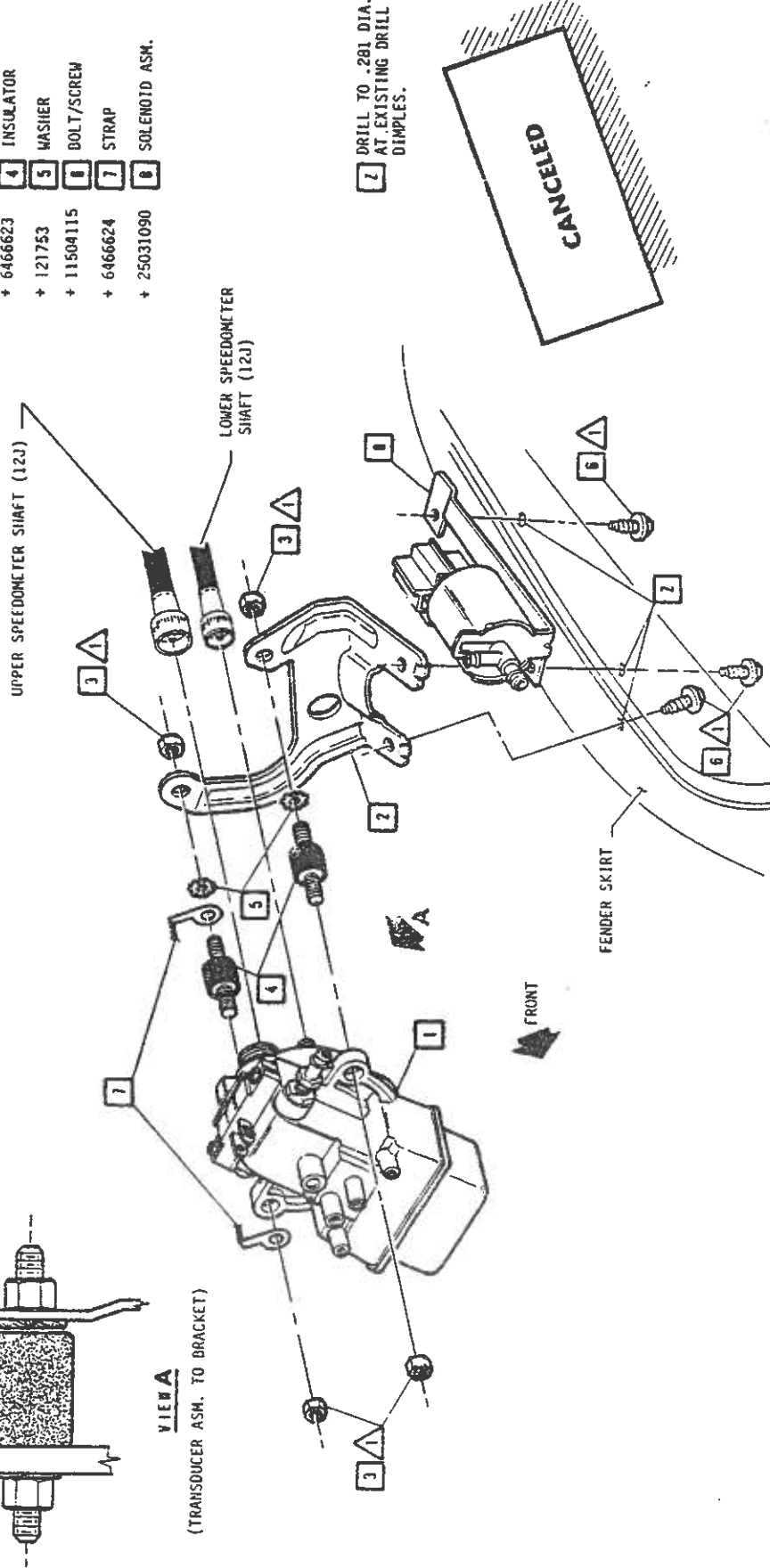
VIEW A

(TRANSUCER ASM. TO BRACKET)

UPPER SPEEDOMETER SHAFT (12J)

LOWER SPEEDOMETER SHAFT (12J)

2 DRILL TO .281 DIA. AT EXISTING DRILL DIMPLES.



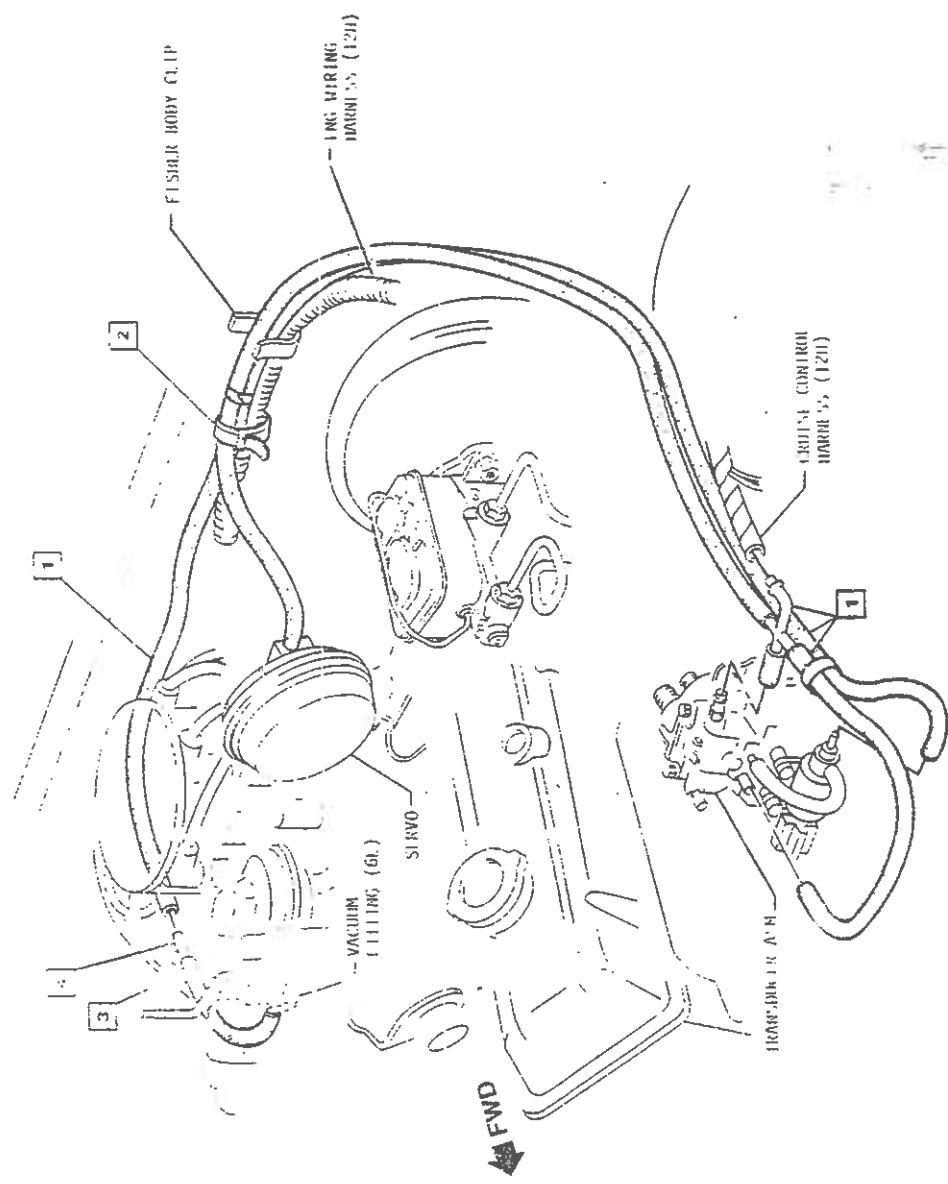
DATE	SYN	ISSUED	REVISION	DATE	BY	DIV	TITLE
04/08/80		1		14 JA 80	G.M. VERSTRAETE	CHEVROLET	1981 CHEV. "F" 14020867
04/08/80		1	<i>SHEET CANCELED</i>		<i>CEB</i>		TRANSDUCER AND SOLENOID ASM MOUNTING
					<i>HT</i>		FA00 & LUB & K35
							21-78296
							RT
							6N4
							4.1

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL EXISTING AS PART OF

General Motors Corporation
 CHEVROLET MOTOR DIVISION

- 14024926 [1] HARNESS ASM
- 9422033 [2] STRAP
- 468286 [3] TUBE
- 14004376 [4] CONNECTOR



1981 CHEV. "F" 14020867		DIV		CHEVROLET		NEW ORLEANS		DATE		DATE		DATE		DATE	
TITLE		CHEVROLET		NEW ORLEANS		DATE		DATE		DATE		DATE		DATE	
ROUTING		NEW ORLEANS		DATE		DATE		DATE		DATE		DATE		DATE	
11, 22, 203 (S)		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
6N4		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
6		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
SHEET		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
6N4		DATE		DATE		DATE		DATE		DATE		DATE		DATE	

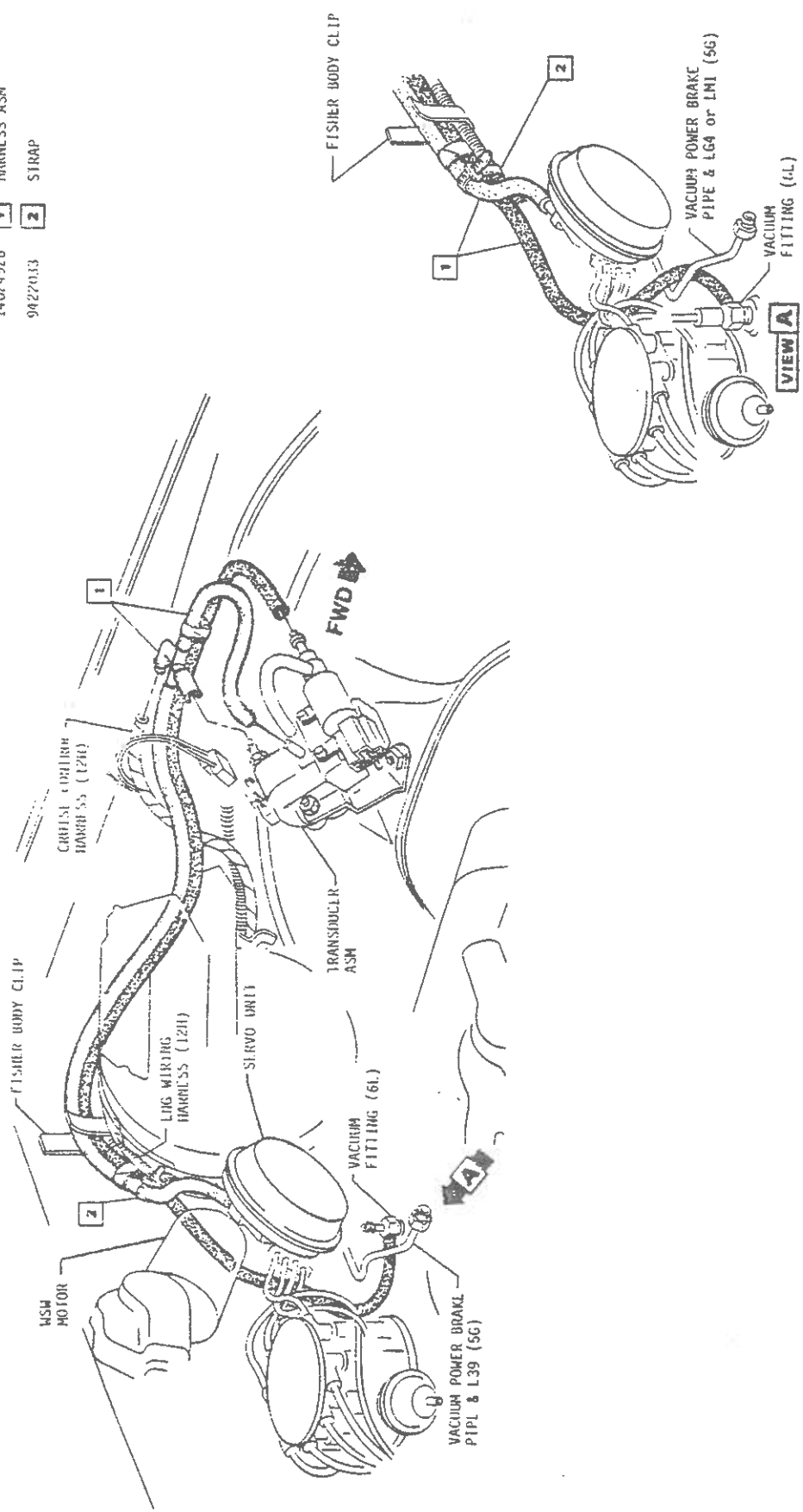
FULLY DRAWN, SEALED & NOT STRIPPED

PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL TOOLS EXISTING AS PART OF

14024926 1 HARNISS ASN
9427033 2 STRAP



DYNAMIC (Initial)	Hand (asp.)	Rev	DATE	SYN	REVISION	DATE	BY	REV	DATE	BY

1981 CHEV. "F" 14020867

CRUISE CONTROL-VACUUM TUBE ROUTING FA00 & L39/LG4/LMI & K35



CHEVROLET

1-22283 (S) UPC

6N4

7

RF ECR 86448 NEW 05FEBO

268

△ FULLY DRIVEN, SEALED & NOT STRIPPED

0 0 0 0 0 0 0 0 0 0

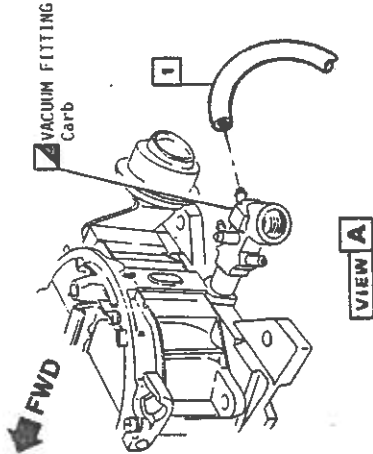
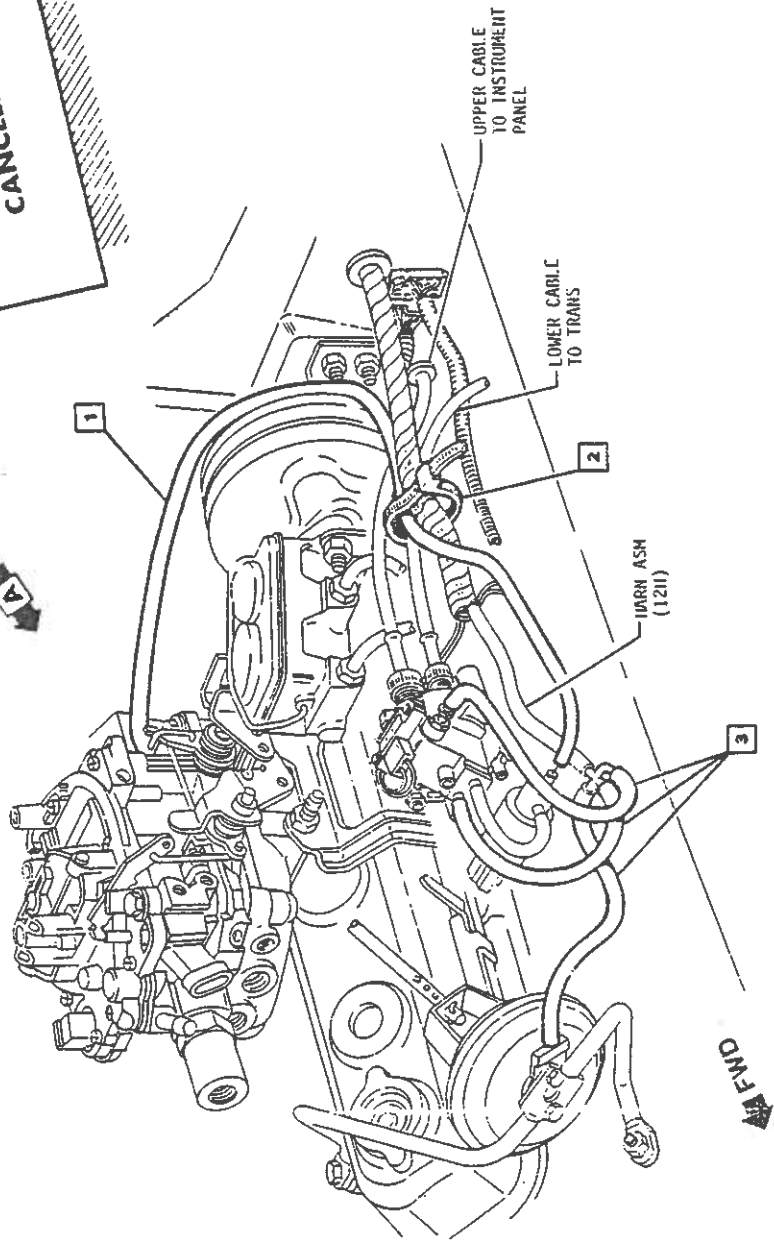
PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 9436856 **1** HOSE
- 11501906 **2** STRAP
- 10010614 **3** HARNESS ASM

CANCELED



WAITING LAYOUT APPROVAL

DYNAMIC (last) Item HARD (last) Item		DATE	SYM	DIVISION	DATE	BY	DIV	TITLE	SHEET
<input type="checkbox"/>	<input type="checkbox"/>	01/20/80	1	CANCELED	11/28/80	R. TAYLOR	CHEVROLET	1981 CHEV. "F" 14020867	7.1
<input type="checkbox"/>	<input type="checkbox"/>							CRUISE CONTROL-TUBE ROUTING	
<input type="checkbox"/>	<input type="checkbox"/>							FAIO & LUB & K35	
<input type="checkbox"/>	<input type="checkbox"/>							REF ECR 86448	6N4
<input type="checkbox"/>	<input type="checkbox"/>							NEW 25MR80	
				270					
FULLY DRAWN, SEALED & NOT STRIPPED									

PONTIAC MOTOR DIVISION
 Pontiac, Michigan
General Motors Corporation

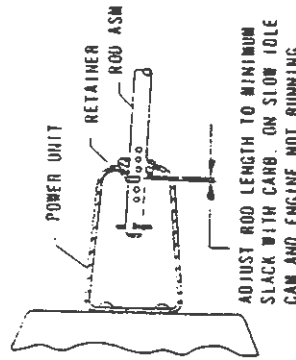
PRODUCT DESCRIPTION MANUAL
 FITTING AS PART OF

MANDATORY ASSEMBLY SEQUENCE

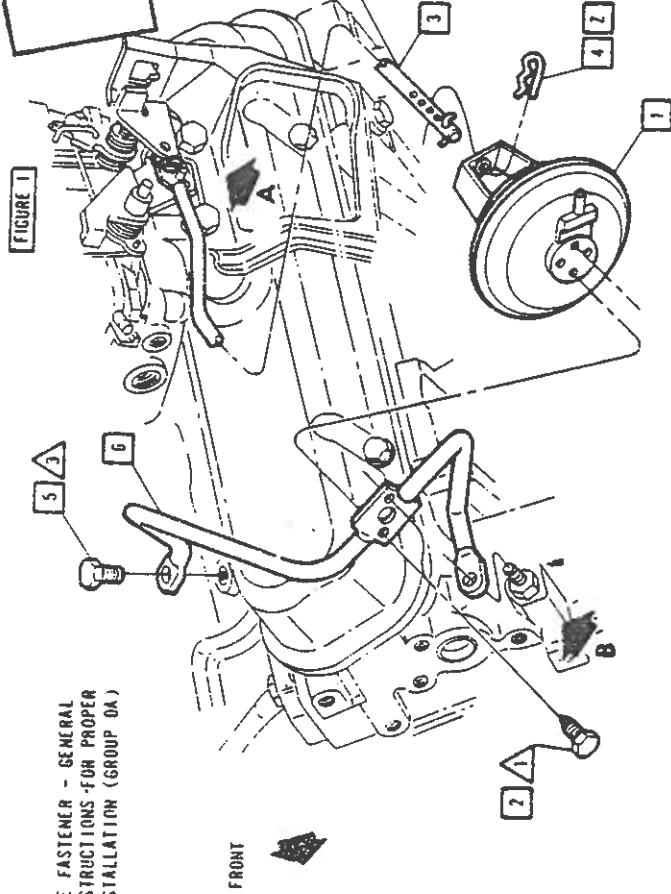
- A BOLT BRACKET **6** TO INTAKE MANIFOLD (SERVO MAY BE SUB-ASSEMBLED TO BRACKET OR ASSEMBLED NEXT)
- B ASSEMBLE SERVO ROD ACTUATOR **3** TO CARB LEVER THEN ASSEMBLE ROD TO SERVO
- C ADJUST PER FIGURE 1 AND INSTALL RETAINER
- D CHECK FOR FREE OPERATION TO WIDE OPEN THROTTLE AND RETURN

2 SEE FASTENER - GENERAL INSTRUCTIONS FOR PROPER INSTALLATION (GROUP DA)

25030578	1	SI INVO - CRUISE CONTROL
11504874	2	SI NEW
10016225	3	R-0 ASM. - ACTUATOR
1351769	4	R1 TAINER
11501939	5	BOLT/SCREW
10010191	6	BRACKET
10010190	7	PIN
124824	8	NUT
9419274	9	WASHER
1247872	10	R1 TAINER
11500417	11	WASHER



CANCELED

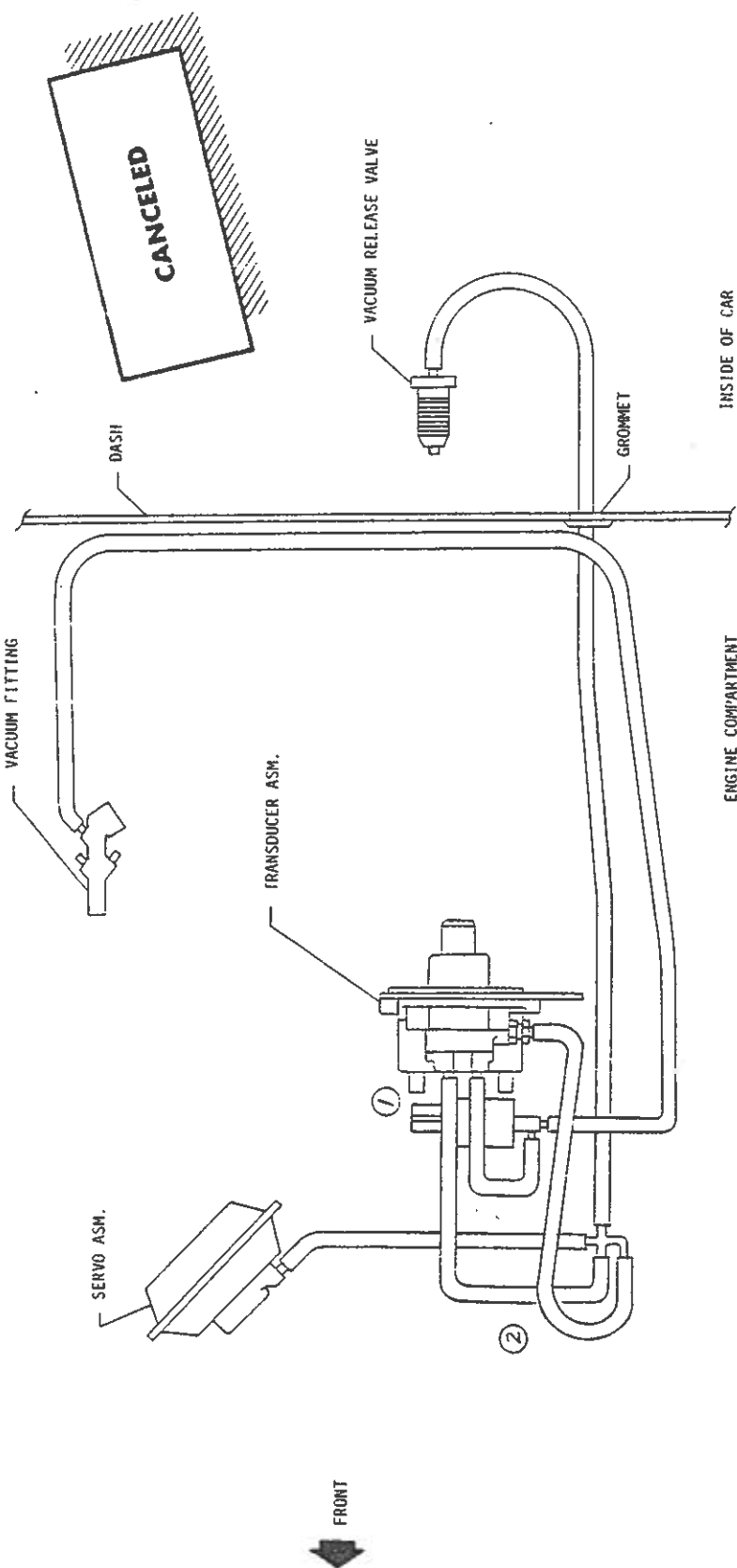


9985276 - Grease
 9985377 - Grease - OPT.

DATE		DATE	OS	JA	RO	DIV	1981 CHEV. "F" 14020867	
BY		DR	G. M.	VER	STR	CE	SERVO UNIT MOUNTING	
BY		CE	JLD				FP87 & LUB & K35	
BY		APR	S				EGR 86448	
BY		APR	11				C/O 09AP80	
BY		APR					6N4-11 RT	
BY		APR					77:200	
BY		APR					6N4	
BY		APR					9	
BY		APR					SHEET	

PONTIAC MOTOR DIVISION
General Motors Corporation
Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL
 ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF



THIS DRAWING IS FOR REFERENCE
PURPOSES ONLY

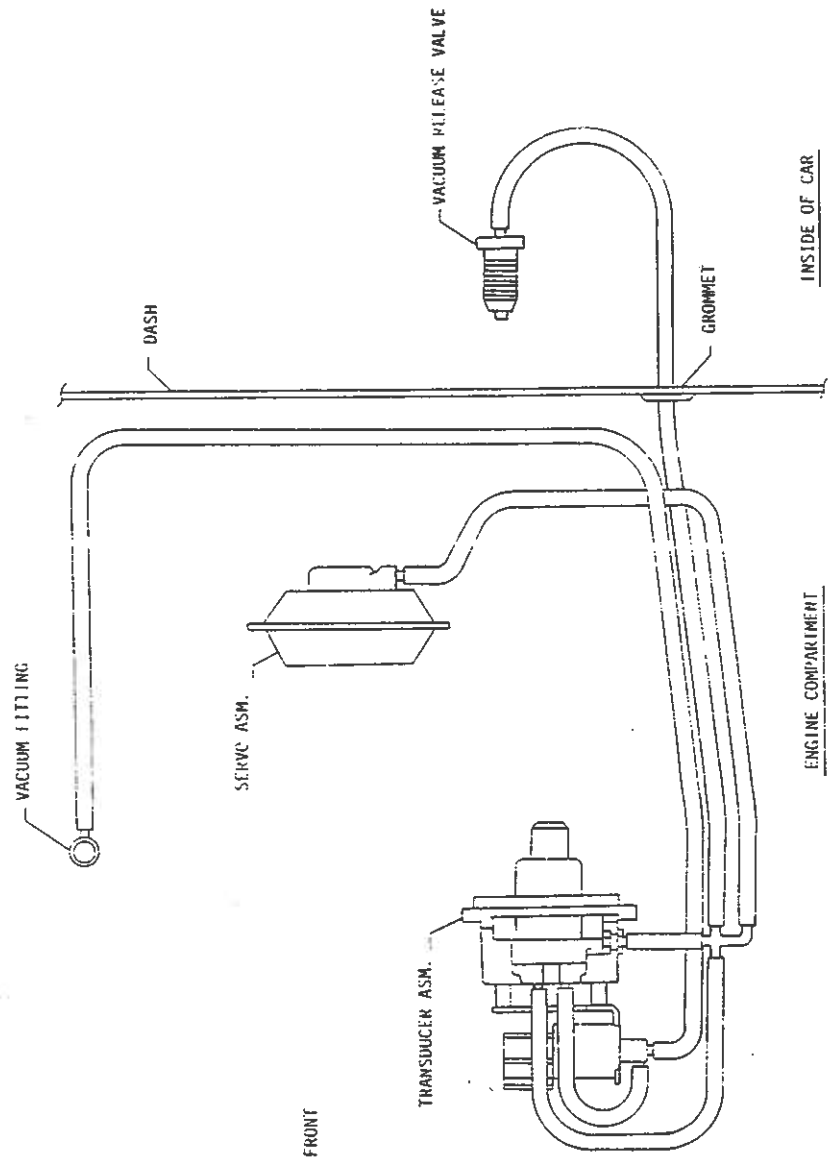
DYNAMIC (Faster) or HAND (Slower)				DATE	SIM	ISSUED	REVISION	AUTN	DI	EX	IN	AS	DATE	DIV	TITLE
△	△	△	△	5/19/80	1	ISSUED	1 TRANSducer DWG. REVISED	30278	RY	58	C	UR	07 JA 80	1981 CHEV. "F" 14020867	
△	△	△	△	7/1/80	2	TRANSducer DWG. REVISED	2 HOSES REROUTED	88504	RY	58	C	UR	07 JA 80	CHEVROLET	
△	△	△	△	2/10/80	3	SHEET CANCELED	3 SHEET CANCELED	91222	RY	58	C	UR	07 JA 80	SCHEMATIC VACUUM TUBE DIAGRAM	
												BUV ECR 86448	UPC	6N4	10
												NEW 26FE60			
												6N4-1.3 RT			

DELT DRIVEN, SEALED & NOT STOPPED

PONTIAC MOTOR DIVISION
General Motors Corporation
Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL
 EXISTING AS PART OF

ITEM REFERENCE PROCESS MATERIAL TORQUE



THIS DRAWING IS FOR REFERENCE PURPOSES ONLY.

DYNAMIC (based on HAND (imp.) - N/m)		DATE	SYM	ISSUED	REVISION	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		07/28/80																		
1981 CHEV. "F" 14020867										SCHEMATIC VACUUM TUBE DIAGRAM										
CHEVROLET										FA00 & LD5										
MTCR 86448										6N4										
NEW 30JAB0										UPC										
6N4-1.1 RT										SHEET										
274										78										

△ FULLY DRIVEN, SEATED & NOT STRIPPED

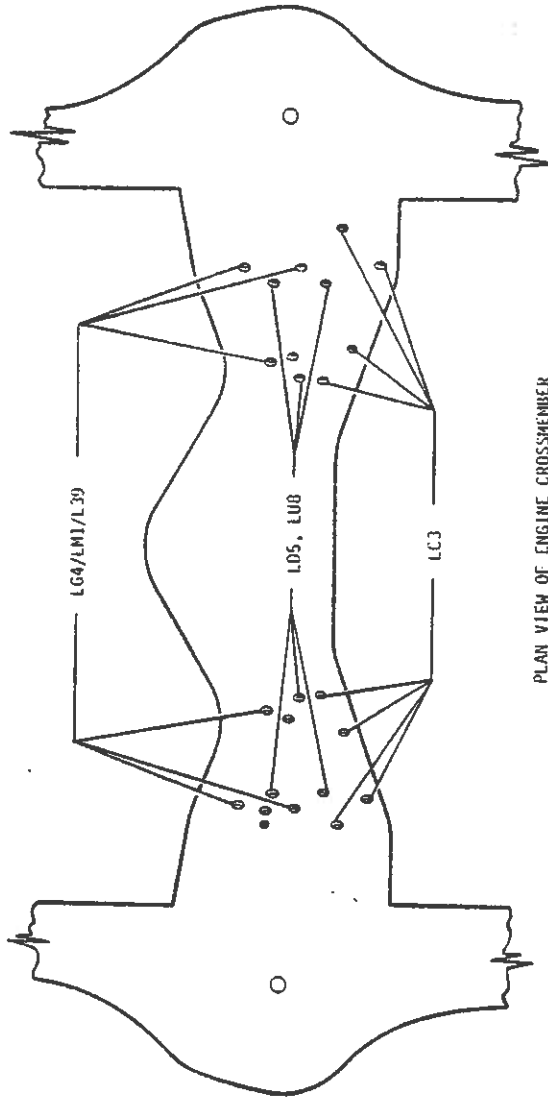


General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

- ITEM REFERENCE
- PROCESS MATERIAL
- TORQUE
- EXISTING AS PART OF

FWD ↑



PLAN VIEW OF ENGINE CROSSMEMBER

DYNAMIC (Inst) Form HAND (Inst) Form DATE STA DATE REVISION AUTH DR CR CD DR CR CD	<input checked="" type="checkbox"/>	DIV CHEVROLET	TITLE 1981 CHEV. "F" 14020867		
	<input checked="" type="checkbox"/>			ENGINE MOUNT BOLT LOCATION ON FRAME	
	<input checked="" type="checkbox"/>			REF FCR 86448 G/U 10/17/79	UP 6Q
	<input checked="" type="checkbox"/>			SHEET 1	
	<input checked="" type="checkbox"/>			6Q-1	

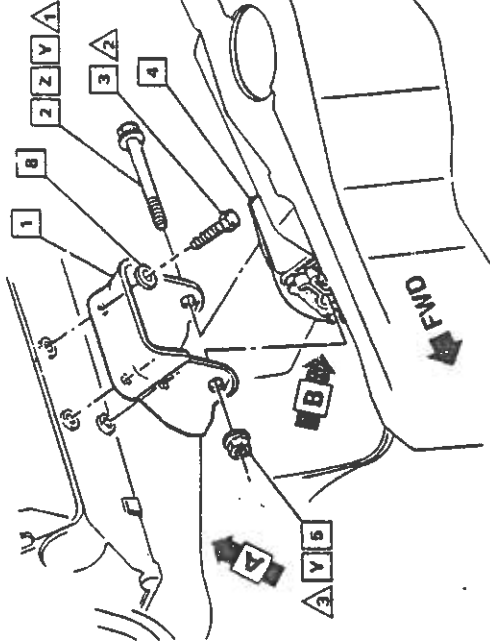
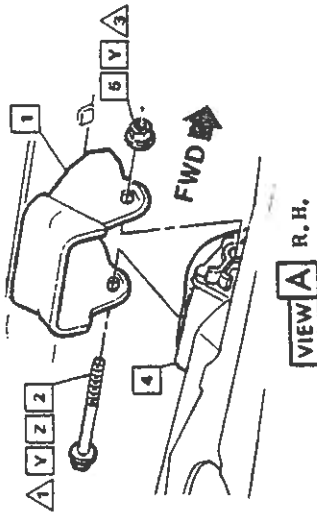
FULLY DIMEN. SKETCH & NOT STRIPPED
 C S 0 P Co



General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

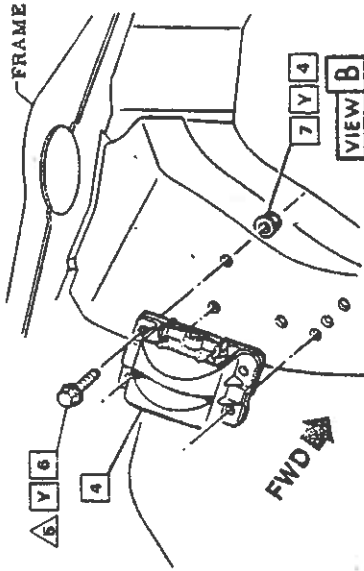
ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF



- 332648 1 BRACKET
- 6262211 2 BOLT/SCREW
- 9420942 3 BOLT/SCREW
- 470780 4 MOUNTING ASM
- 6262212 5 NUT
- 11502788 6 BOLT/SCREW
- 11502812 7 NUT
- 103321 8 WASHER

- Y Bolt or nut may be torqued optionally.
- Z Align L. H. engine mounting to frame bracket hole & assemble L. H. "Thru" bolt, then assemble R. H. "Thru" bolt.

NOTE 1 Direction of installation for bolt 2 is optional on L. H. side.



DYNAMIC (Initial)	MANUAL (Inp)	ITEM	DATE	SYM	REVISION	AUTH	DR	CR	REV DATE	BY	DIV	FIGURE MOUNTING	W/C	SHEET
△ 80-110										UK J. PARK	CHEVROLET	1 FIGURE MOUNTING		1
△ 40 - 54										APR S		1 ADD 8L64/LM1/L39		2
△ 60 - 75										APR S				
△ 34 - 48										APR S				
△ 38 - 52										APR S				
△ FULLY DRIVEN, SEATED & NOT STOPPED														

PRODUCT DESCRIPTION MANUAL

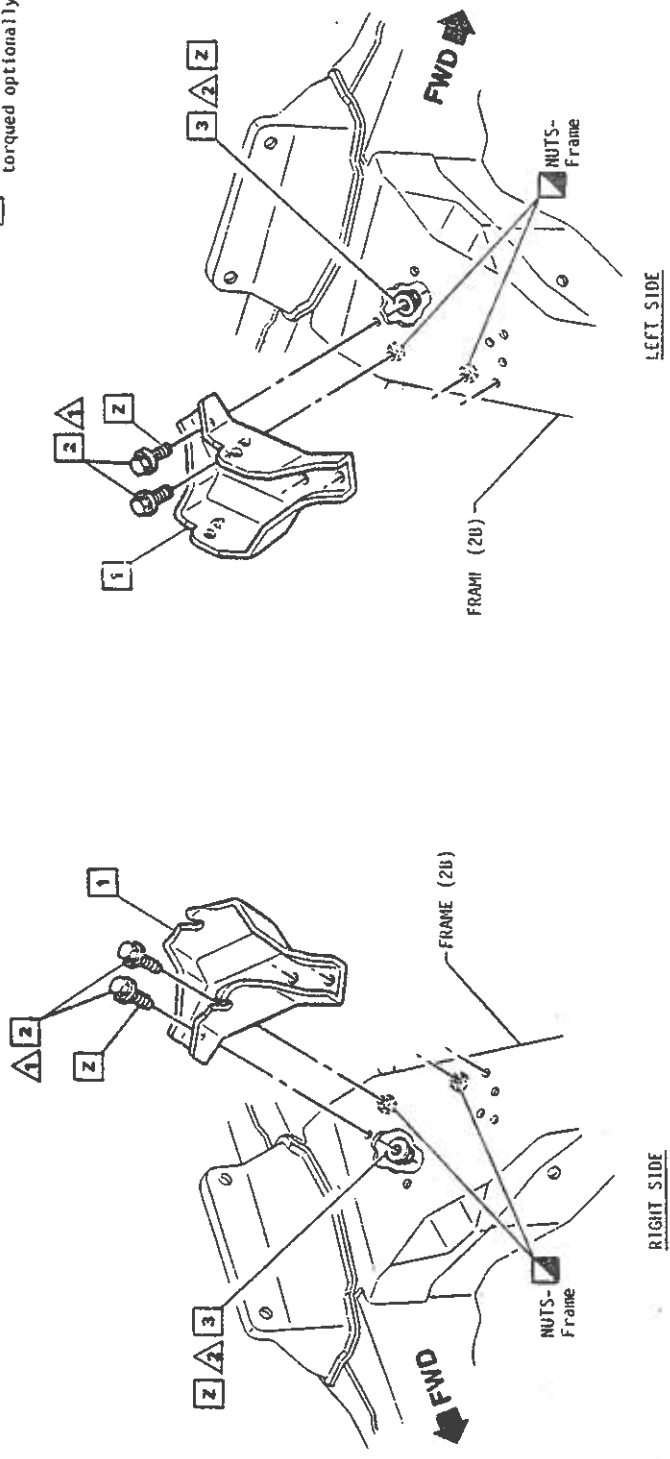
ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION



- 14022435-6 BRACKET ASM L & RH
- 11502788 BOLT/SCREW
- 11502812 NUT

Bolt or nut may be torqued optionally.



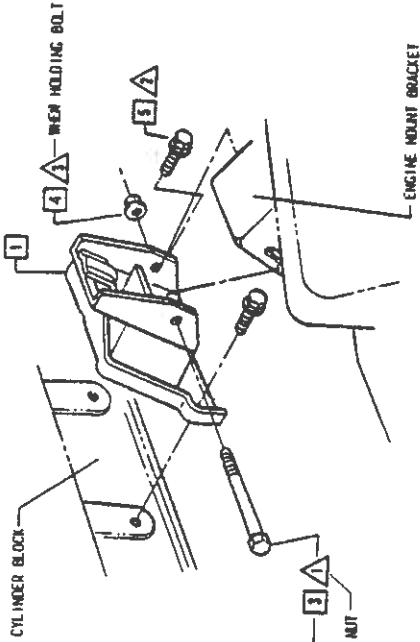
STANDARD (last of) Part	DATE	SYM	REVISION	AUTH	DATE	DIV	1981 CHEV. "F" 14020867
△ 34-46					11/29/30	CHEVROLET	ENGINE MOUNTING BRACKET
△ 28-38					DR J PARK	CHEVROLET	TA00 84.C3
△					APPE	CHEVROLET	REF ECR 86448
△					APPE	CHEVROLET	C/O 120E79
△					APPE	CHEVROLET	19208 (S)
△					APPE	CHEVROLET	60-3
FULLY DRIVEN, SEALED & NOT STRIPPED				277		6Q	
							SHEET
							3

PONTIAC MOTOR DIVISION
General Motors Corporation Pontiac, Michigan

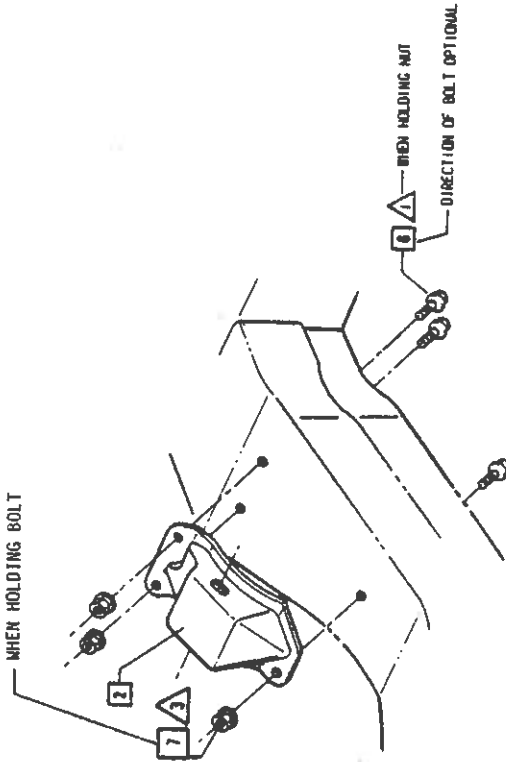
PRODUCT DESCRIPTION MANUAL
EXISTING AS PART OF

ITEM REFERENCE PROCESS MATERIAL FORUM

- | | | |
|----------|---|--------------------------------|
| 1250718 | 1 | MOUNT ASM. - R.H. (CODE WHITE) |
| 25504645 | 2 | MOUNT ASM. - L.H. (CODE RED) |
| 10014337 | 3 | BRACKET ASM. - R.H. |
| 10014338 | 4 | BRACKET ASM. - L.H. |
| 9419713 | 5 | BOLT |
| 6262212 | 6 | NUT |
| 1244786 | 7 | BOLT |
| 11502788 | 8 | BOLT |
| 11502812 | 9 | NUT |



L.H. SIDE SHOWN
R.H. SIDE OPPOSITE



R.H. SIDE SHOWN
L.H. SIDE OPPOSITE

1981 CHEV. "F" 14020867		DIV		DATE 19 DEC 79		BY G.M. VERSTRAETE		APPR S		APPR S		APPR S		APPR S	
CHEVROLET		ENGINE MOUNTING FA00 & L05		8644B		C70 110E79		60-3 JP		6Q		DPC		5	
ISSUED		SYN		DATE 7/2/80		BY		APPR		APPR		APPR		APPR	
55-75		70-80		34-48		3		3		3		3		3	
UNLTD. DRIVE SEATED & NOT STRIPPED		279		279		279		279		279		279		279	
0		0		0		0		0		0		0		0	

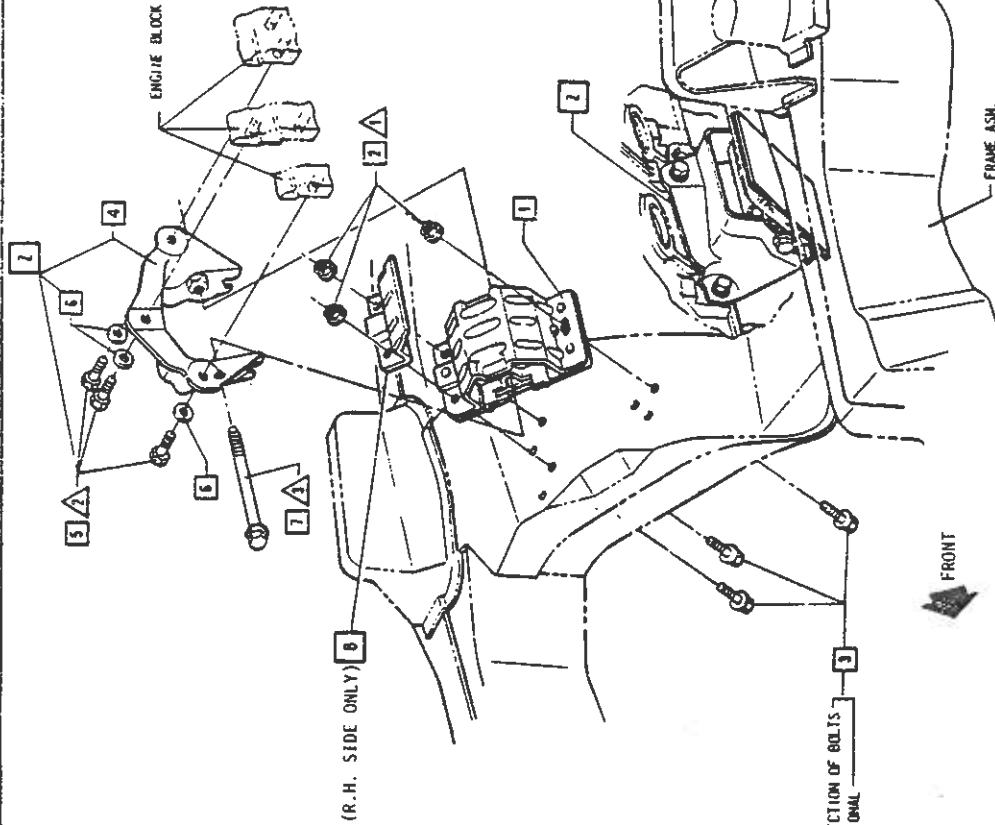
PONTIAC MOTOR DIVISION

General Motors Corporation

Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF



1	10014252 10001090	INSULATOR ASM. - R.H. INSULATOR ASM. - L.H.
2	11502812	NUT (6)
3	11502788	BOLT (6)
4	496892 496893	BRACKET ASM. - R.H. BRACKET ASM. - L.H.
5	454932	BOLT
6	103328	WASHER
7	334972	BOLT
8	1009607	SHIELD

CANCELED

EXISTING PARTS (UPL) INSTALLED BY ENGINE PLANT

DYNAMIC (INERTIA)	HAND (INP.)	NO.	DATE	SYM.	ISSUED	REVISION	AUTH.	DE.	CE.	EST.	DATE	DIV.
Δ	34-48		7/20/80		ISSUED		86448	CO			31 OC 79	DIV
Δ	70-90		7/20/80	1	SHEET CANCELED		71222	ED			BY G.M. VEH. TRAETE	
Δ	55-75										C.A.R.	
Δ											APP	
Δ											APP	
Δ											APP	
Δ											APP	
280												
FULLY DRAWN SEATED & NOT STRIPPED												

CHEVROLET

AT/ECR 86448
C/O 11DE79
60-2 JP

ENGINE MOUNTING
FRONT & LUB

1981 CHEV. "F" 14020867

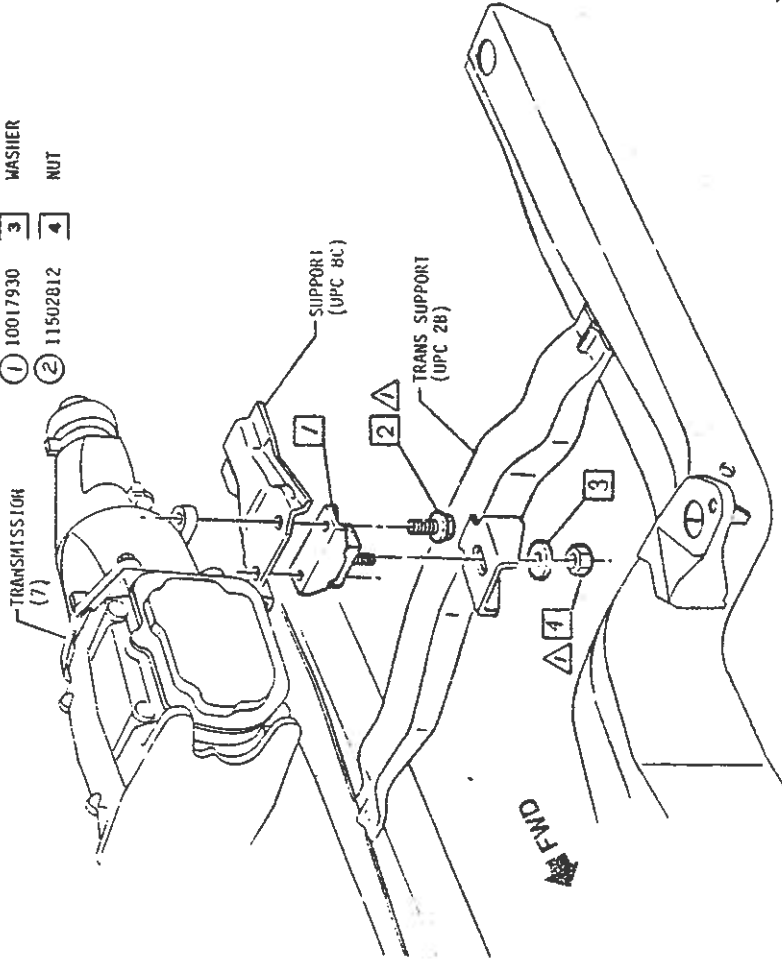
UPL 6Q SHEET

6 6 6

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE □ PROCESS MATERIAL △ TORQUE EXISTING AS PART OF

- 45900B 1 MOUNTING ASM
- 11502599 2 BOLT/SCREW
- 10017930 3 WASHER
- 11502812 4 NUT



1981 CHEV. "F" 14020867
TITLE
TRANSMISSION MOUNTING
F400 BLC / LG4/LM1/L39
DIV CHEVROLET
ECR 86447
C/O 14JA79
60-

DATE	17/09/30	BY	J. PARK
APP	(S)	APP	(S)
APP		APP	
APP		APP	
APP		APP	

REV	DATE	BY	DESCRIPTION
1	17/09/30	J. PARK	REVISION
2	17/09/30	J. PARK	WAS 11502474 WASHER
			WAS 11501033 NUT

40 - 54	△	△	△	△	△
FULLY DRIVEN, SEATED & NOT STRIPPED					

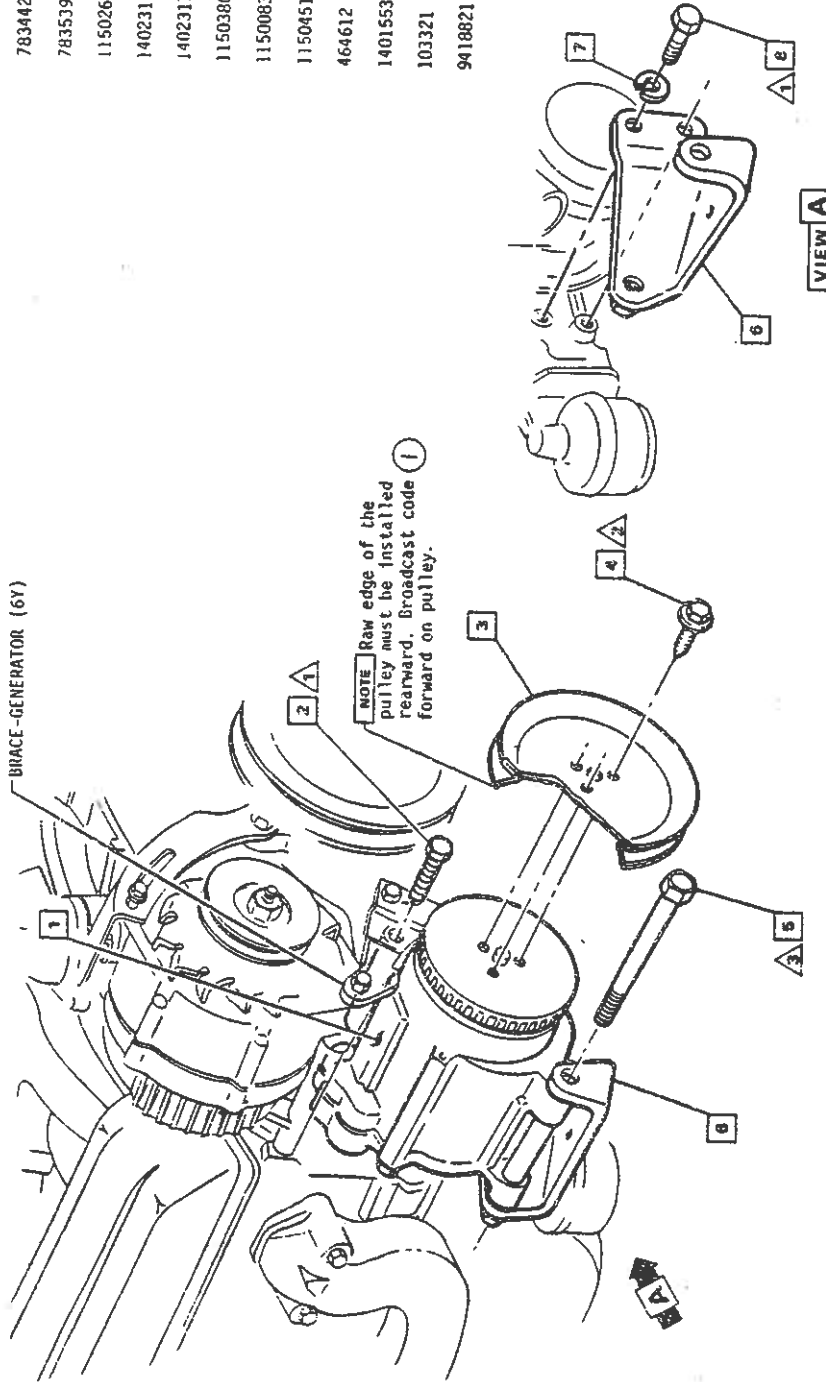
281

PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERRED TO
 PROCESS MATERIAL
 TORQUE
 EXISTING AS PART OF

- | | | |
|---|----------|------------------|
| 1 | 7834420 | PUMP ASM & LC3 |
| 1 | 7835397 | & L39/LG4/LMI |
| 2 | 11502606 | BOLT/SCREW |
| 3 | 14023171 | PULLEY & C41 |
| 3 | 14023170 | & C60 |
| 4 | 11503805 | BOLT/SCREW |
| 5 | 11500837 | BOLT/SCREW & LC3 |
| 5 | 11504518 | & L39/LG4/LMI |
| 6 | 464612 | BRACKET & LC3 |
| 6 | 14015532 | & L39/LG4/LMI |
| 7 | 103321 | WASHER |
| 8 | 9418821 | BOLT/SCREW |



DATE	SYN	REVISION	DATE	BY	CHKD BY	DATE	BY	DATE	BY	DATE	BY
050680	1	PULLEY NOISE REV	070890	DR R KOCH							
				<i>DR R. KOCH</i>							
				<i>DR J. P. CHAPMAN</i>							
				APR 5							
				APR							
				APR							
				APR							

1	26-36	<input type="checkbox"/>
2	8-11	<input type="checkbox"/>
3	20-27	<input type="checkbox"/>
4		<input type="checkbox"/>
5		<input type="checkbox"/>

ONLY WHEN SEALED & NOT STAMPED

U	X	0	0	P	X	G
---	---	---	---	---	---	---

REV ECR 86448	C/O 17J480	1-86342 (S)	UPC	SHEET
86448	17J480	1-86342	6T	1

CHEVROLET
 DIVISION

1981 CHEV. "F" 14020867

TITLE
 A.I.R. PUMP
 FA00 & LC3/LG4/L39/LMI & K19

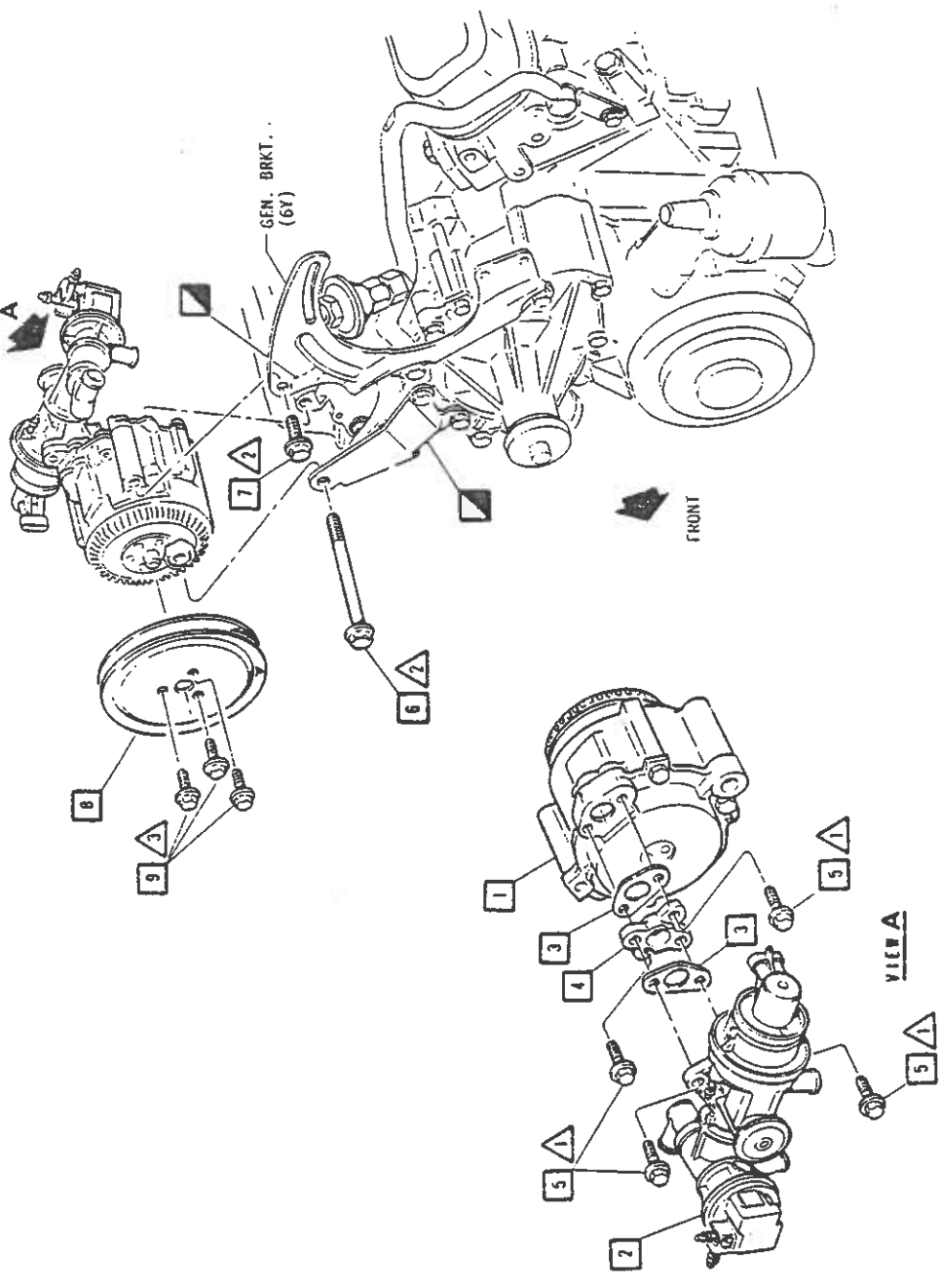
PONTIAC MOTOR DIVISION

General Motors Corporation Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

□ ITEM RECEIVED ◊ PROCESS MATERIAL △ TORQUE ▣ EXISTING AS PART OF

- | | | |
|----------|---|------------|
| 7834420 | 1 | PUMP ASM. |
| 17070049 | 2 | VALVE ASM. |
| 25502415 | 3 | SEAL |
| 14015367 | 3 | SEAL OPT. |
| 10015540 | 4 | ADAPTER |
| 25502846 | 5 | BOLT |
| 11504517 | 6 | BOLT |
| 11502606 | 7 | BOLT |
| 10013514 | 8 | PULLEY |
| 11503805 | 9 | BOLT |



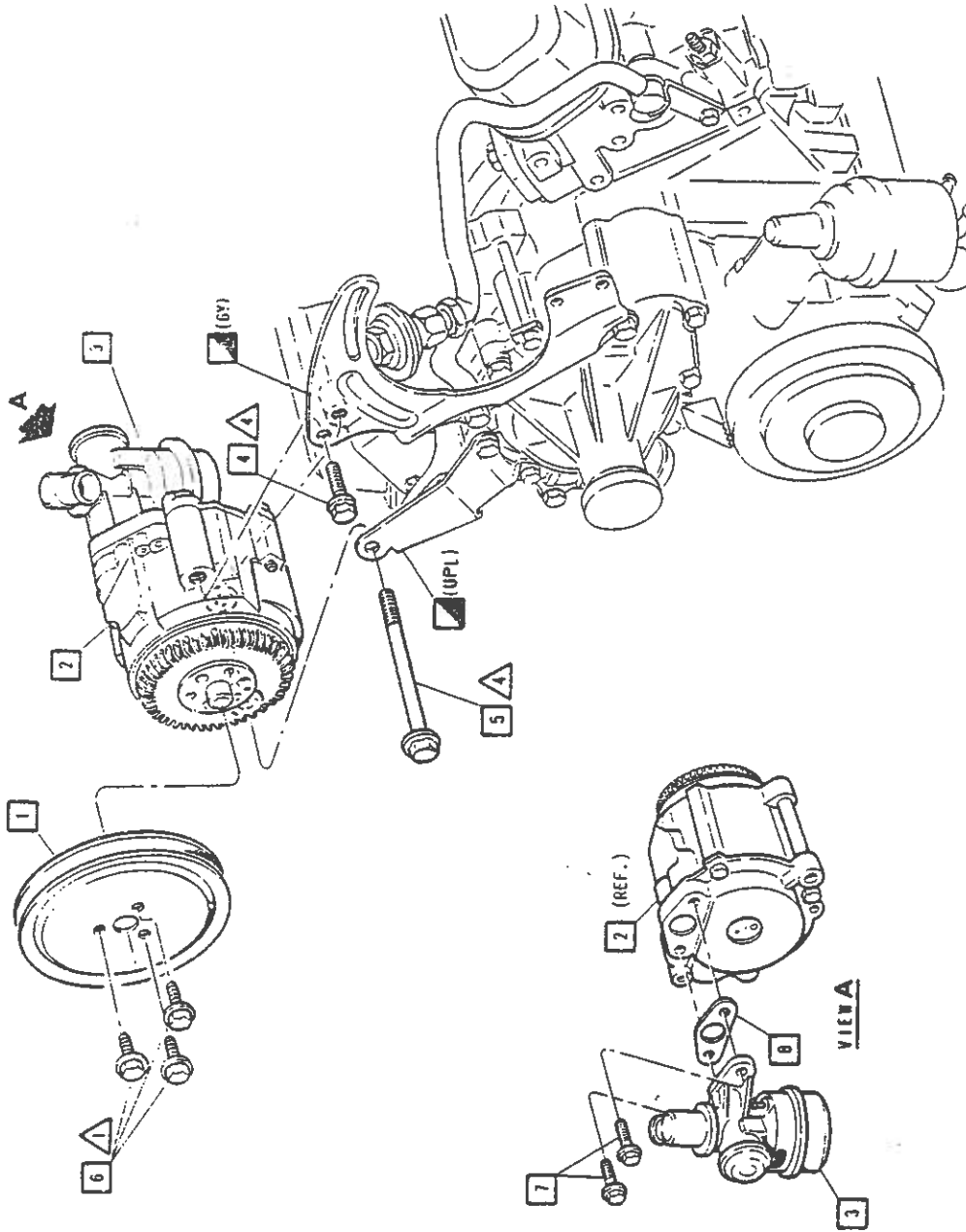
1981 CHEV. "F" 14020867		TITLE A. I. R. PUMP MOUNTING FACD & LUB & NDI	
DIV CHEVROLET		UPC 6T	
DATE 12 FEB 80 DR R.P. BEBI CR JEB APPR G.M. 22280 APPR JEB		2 L-78313	
AUTH BC488 (U) 2/12/80		SHEET 6T	
REV. 1		SHEET 2	
SYN		ISSUED SHEET CANCELED	
DATE 2/2/80		284	
DYNAMIC (lasted) IN BRAND (lasted) IN M		12-16 40-60 8-12	
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9			
<input checked="" type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20			

PONTIAC MOTOR DIVISION
 Pontiac, Michigan
 General Motors Corporation

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL DECOURT LISTING AS PART OF

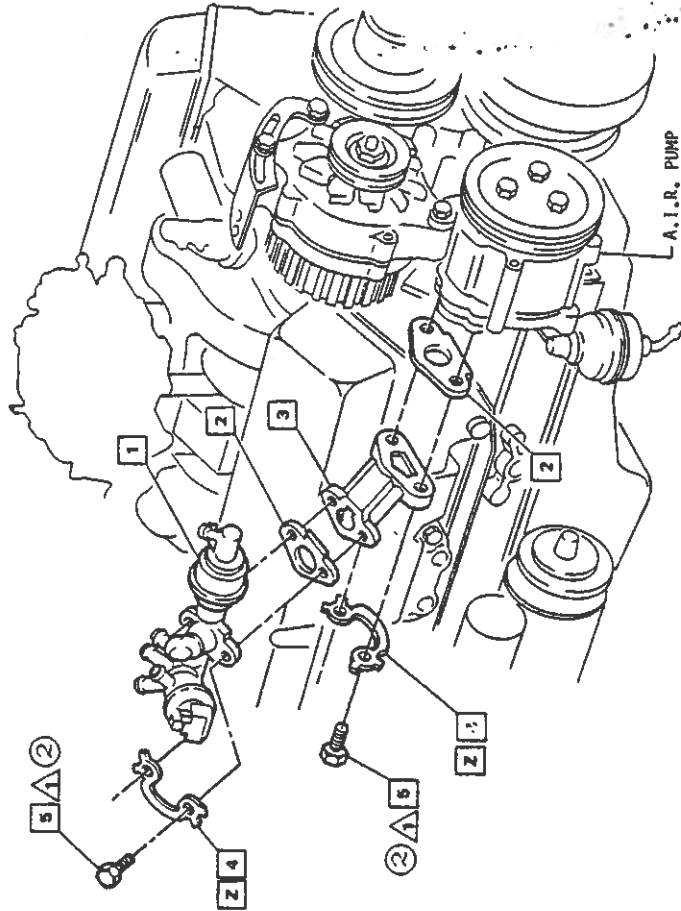
- | | | |
|----------|----------|-----------------------|
| 10009997 | 1 | PULLEY |
| 7833397 | 2 | PUMP ASM. |
| 17064892 | 3 | VALVE ASM. - DIVERTER |
| 11507606 | 4 | BOLT |
| 11504518 | 5 | BOLT |
| 11503805 | 6 | BOLT |
| 25502846 | 7 | BOLT |
| 25502415 | 8 | GASKET - OPT. |
| 14015367 | 9 | GASKET |



DATE		REV		BY		APP		DATE		REV		BY		APP	
12/16/80		1		SMT		SMT		12/16/80		1		SMT		SMT	
ISSUED		CANCELED		SHEET		CANCELED		DATE		REV		BY		APP	
12/16/80		1		SMT		SMT		12/16/80		1		SMT		SMT	
DYNAMIC INVO:		HAND INP		N M		DATE		SYM		REVISION		ISSUED		SHEET	
8-12		12-16		40-60		12/16/80		SMT		1		SMT		CANCELED	
UNIT DRIVER		SEALED & NOT STamped													
1		0		0		0		0		0		0		0	
1981 CHEV. "F" 14020867		DIV		CHEVROLET		NEW 05MY80		6T-3.2 RK		SWIFT		6T		2.1	
A.T.R. PUMP ASM MOUNTING		FA00 & LUS & NMA		2177652		2177317		2177538		SWIFT		6T		2.1	

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF



- ③ 17071548 1 VALVE ASM
- 14023103 2 GASKET
- 14026181 3 ELBOW
- 14015366 4 LOCK
- ① 14015365 5 BOLT/SCREW

Z Tab nearest to hex flat shall be folded against the bolt/screw heads.

DYNAMIC (Inst) Pm 9-12 △ ONLY DRIVEN, SEALED & NOT STIMPED	△ △ △ △ △	770c80 10JAN81	170c80 10JAN81	SYN 1 2 3	REVISION WAS 1403110 BOLT/SCREW TORQUE 9-12 ADDED (2) PLACES WAS 12064721 VALVE	AUTH 85285 86488 CU 9225 CU	DR R KOCH (Signature) APPR S	DATE 04/28/80 05/11/80 05/11/80	DIV CHEVROLET R/F ECR 86448 NEW 21FE80	TITLE VALVE ASM-A.I.R. CONTROL SWITCHING FA00 & LC3/L64/LM1/L39	1981 CHEV. "F" 14020867 1-22738 (S)	UPK 6T	SHEET 3
	GM Logo: C X B 0 P X Co												
	A.I.R. PUMP												
	286												

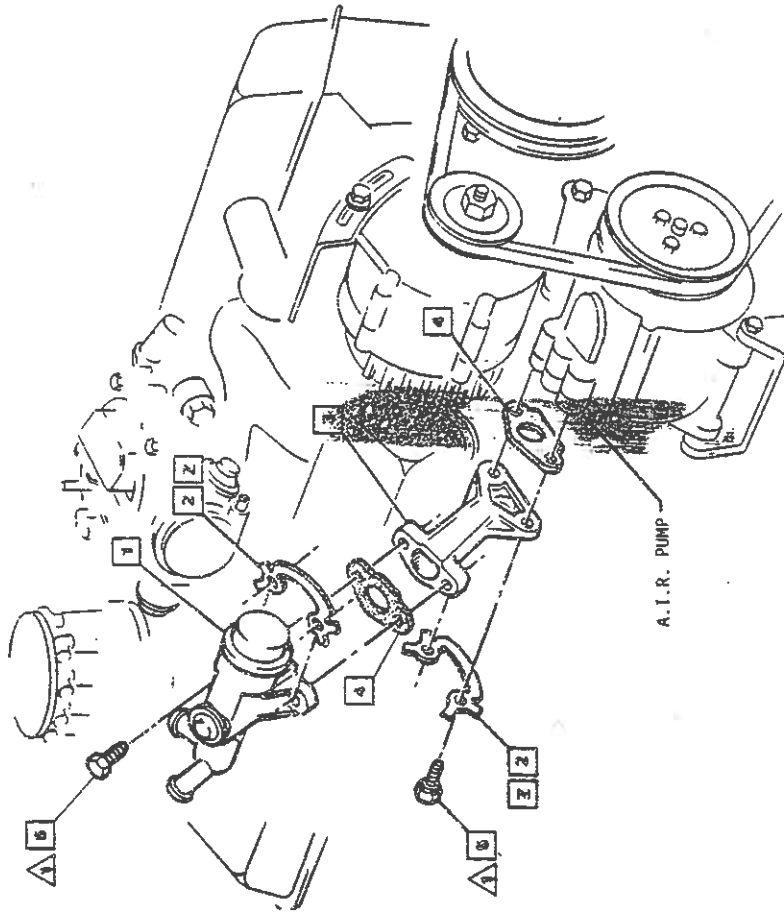


General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 1 VALVE ASM-DVTR
- 2 LOCK
- 3 ELBOW
- 4 GASKET
- 5 BOLT/SCREW



2 Tab nearest to hex flat shall be folded against the bolt heads.

DYNAMIC (Instal) Part		DATE	REV	BY	CHK	DATE	BY	CHK	DATE	BY	CHK
9 - 12						27MR80	R. KOCH				
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		REVISION TO Richard L. ... APPR NS APPR APPR									
<input checked="" type="checkbox"/> MAY DRIVEN, SENTO & NOT SHIPPED		287									
DIVISION: CHEVROLET TITLE: 1981 CHEV. "F" 14020867 A.I.R. DIVERTER VALVE FA00 8LMI 8M3B 8NM4		DIV: CHEVROLET REF ECR 86440 NEW 13MR80									
SHEET: 6T OF: 6T SHEET: 3.1											



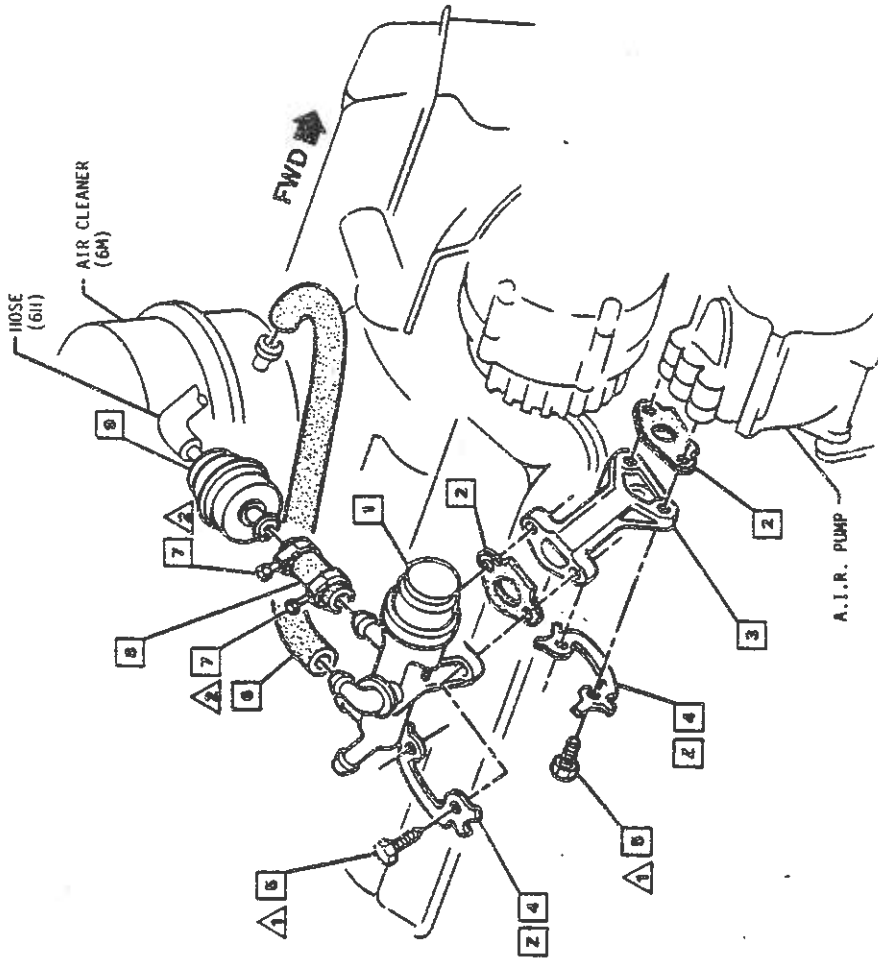
General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 17064300 [1] AIR INTAKE CONTROL VALVE
- 14023103 [2] GASKET
- 14015555 [3] ELBOW
- 14015366 [4] LOCK
- 14015365 [5] BOLT
- 14023127 [6] HOSE
- 9423574 [7] CLAMP
- 14023107 [8] HOSE
- 25040196 [9] AIR FILTER A/C SPARK PLUG

[Z] Tab nearest to hex flat shall be folded against the bolt heads.



DYNAMIC (test) HAND [imp.] - No	9 - 12	DATE	SYN	REVISION	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	
	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12																				
FULLY DRIVER, SEATED & NOT STOPPED																					
TITLE: 1981 CHEV. "F" 14020867 PART: AIR CONTROL VALVE & FILTER CODE: FA00 8LMI 8M29 8N44										SHEET: 6T OF: 3.2											

PONTIAC MOTOR DIVISION

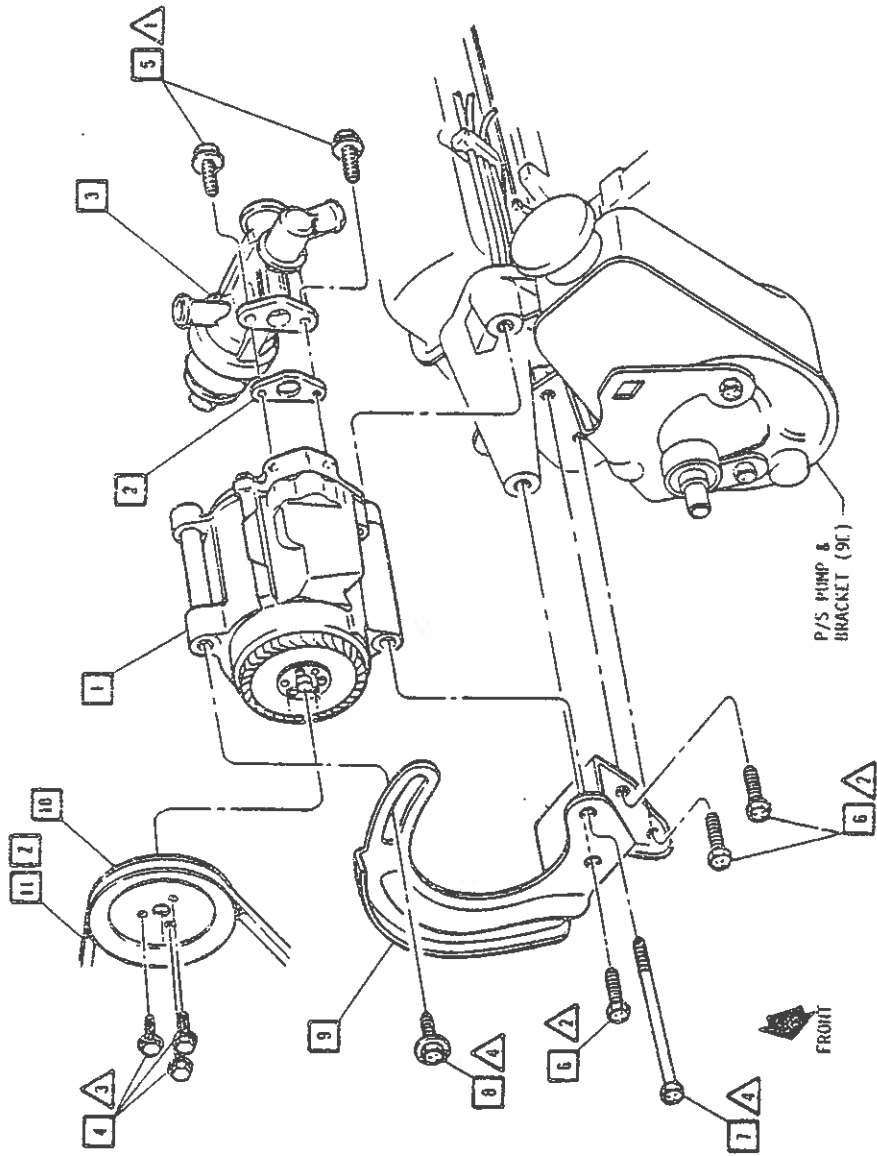
General Motors Corporation Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

□ ITEM REFERENCE ◇ PROCESS MATERIAL △ TOGGLE

EXISTING AS PART OF

1	PUMP ASH
1	OPT
2	SEAL
3	VALVE ASM.
4	BOLT
5	BOLT
6	BOLT
7	BOLT
8	BOLT
9	BRACKET
10	PULLEY (ZS)
11	BELT (GN)



2 FOR BELT ROUTING, SEE BELT & PULLEY DIAGRAM - GROUP 6Z

DYNAMIC (Inside) #	12-16	DATE	7/28/80	SYM	ISSUED	REVISION	DATE	BY	APP	DATE	BY	APP	DATE	BY	APP
12-16	7/28/80														
26-40															
6-11															
40-60															
P/S PUMP & BRACKET (9C)															
289															
CHEVROLET															
NEW 16SE80															
6T-6 RL															
6T															
SHEET 5															
1981 CHEV. "F" 14020867															
A.I.R. PUMP & MOUNTING BRACKET FA00 BLD5 BK19															

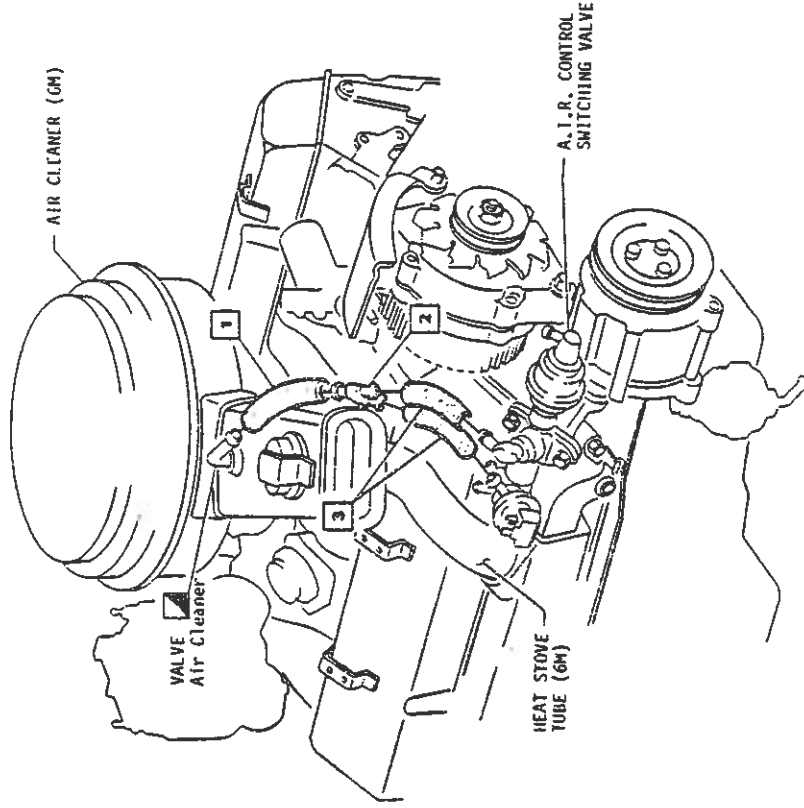


General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

□ ITEM REFERENCE ◇ PROCESS MATERIAL △ TORQUE ▣ EXISTING AS PART OF

- 3940940 **1** TUBE
- 1403110 **2** CONNECTOR
- 1403111 **1** TUBE



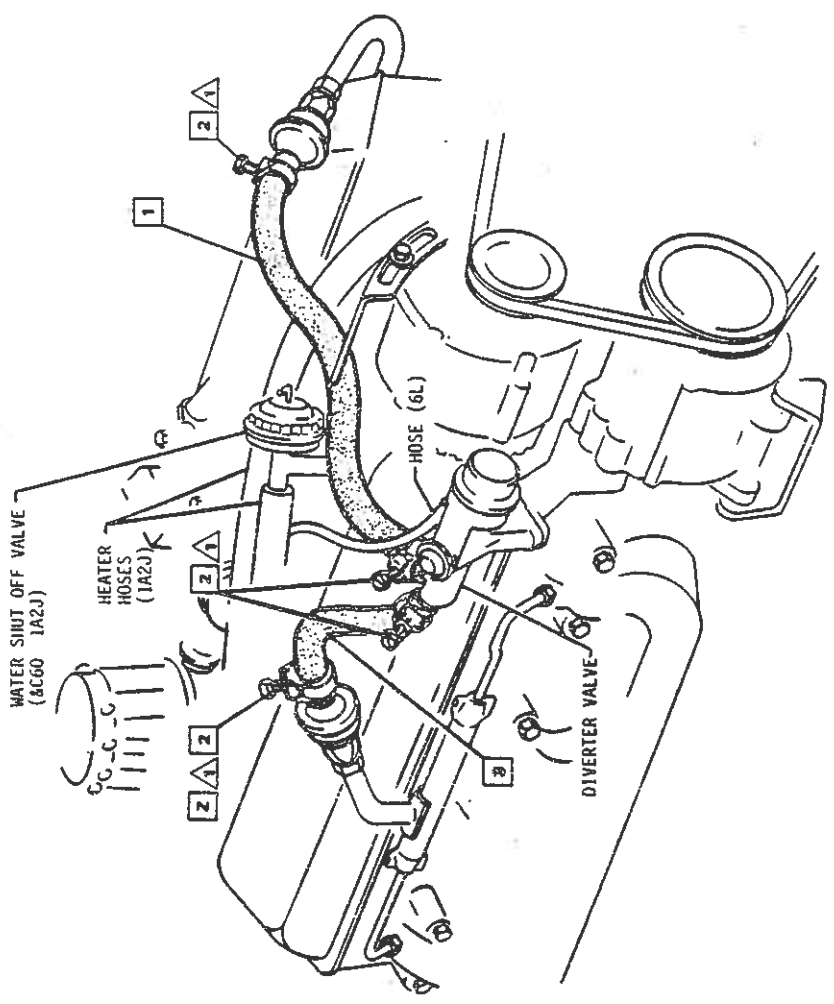
<input type="checkbox"/> DYNAMIC (based on) <input type="checkbox"/> H&M (dup) <input type="checkbox"/> R=M			DATE	STW	REVISION		DATE	BY	APPROV	DIV	1981 CHEV. "F" 14020867		
							25/2/81	R. KOCH / CU		CHEVROLET	TITLE A.I.R. HOSES TO AIR CLEANER FA00 & LC3/LG4/LMI/L39		
								<i>Don't let go</i>			1-22738 (S) DPC		
											SHEET 6T 7.1		
											REV ECR 86448 NEW 21FEB80		

△ FULLY DRIVEN, SEALED & HOT STRIPPED
C 1 1 0 0 1 1 1 1

General Motors Corporation
CHEVROLET MOTOR DIVISION
PRODUCT DESCRIPTION MANUAL
 EXISTING AS PART OF

ITEM REFERENCE
 PROCESS MATERIAL
 TORQUE
 EXISTING AS PART OF

- 472804 HOSE LH
- 9423574 CLAMP
- 330554 HOSE RH



Z Installation of this clamp to be in a vertical position at this location.

DYNAMIC (Initial) Rev. 1.4 - 2.0 HAND (Imp.) - Rev.		DATE	SYM	REVISION		DR	CL	ENG	DATE	DIV	TITLE
△ 1.4 - 2.0 △ △ △ △									27MRS80	CHEVROLET	1981 CHEV. "F" 14020867
△ FULLY DRIVEN, SEATED & HOT STRIPPER									00 R KOCH (R) Richard Koehne RE APPR N-3 APPR APPR	CHEVROLET	A.I.R. HOSES FA00 8LM1 8K19 8NM4
										REF ECR 86A4B NEW 14MR80	(IIS)
											UFC
											6T
											SHEET
											7.2

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PONTIAC MOTOR DIVISION

General Motors Corporation

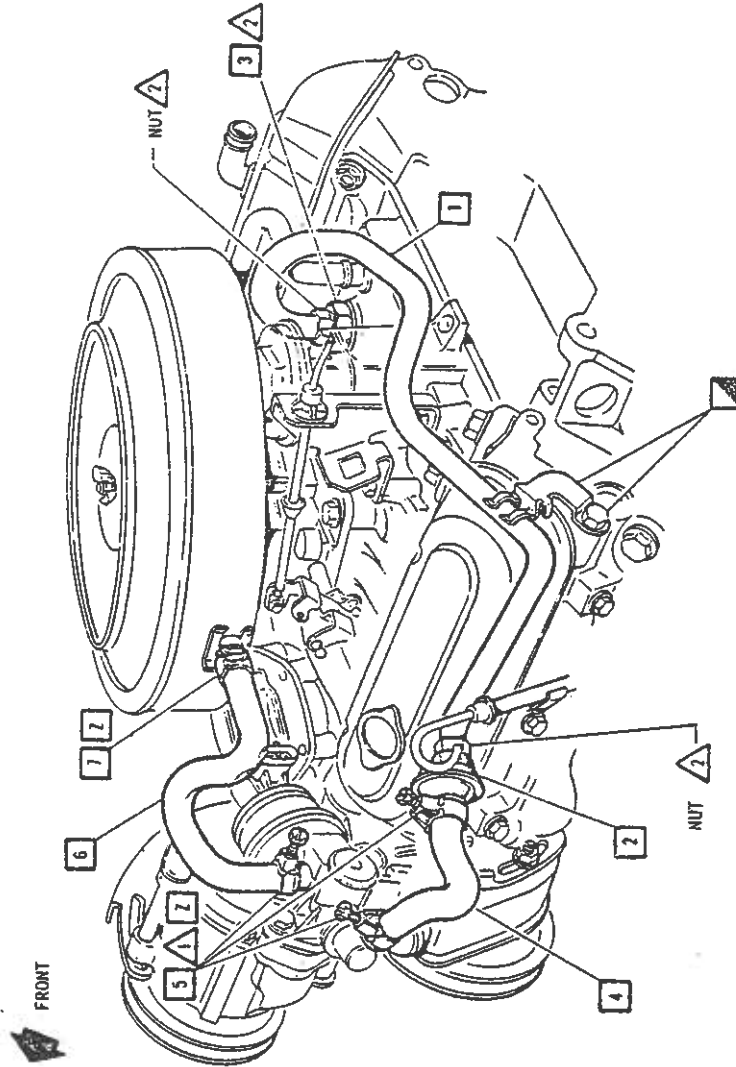
Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE
 PROCESS MATERIAL
 TORQUE
 EXISTING AS PART OF

- 1 PIPE ASM.
- 2 VALVE ASM.
- 3 CONNECTOR
- 4 HOSE
- 5 CLAMP
- 6 HOSE
- 7 CLAMP

- 10018829
- 22034707
- 442367
- 10018175
- 9423576
- 10018176
- 1374023



SEE FAST NER GENERAL INSTRUCTIONS
UPC 0A.

DATE		20 JUN 80	ISSUED	REVISION	86448	DATE	02 APR 80	DIV	1981 CHEV. "F" 14020867
SYN		245522	1	REDRAWN & REDESIGNED	86448	BY	J.P. BIERI	CHEVROLET	
HAND (Imp.)		1.4 - 2.8			1.400	BY	VEB		
M M		20 - 34				BY	W.H.E.		
DYNAMIC (Imp.)						BY			
ONLY OBTAIN STATO & NOT STRIPPED						BY			
TITLE						BY			
A.T.R. HD-ES						BY			
FA00 & LD5 & K19						BY			
UPC						BY			
6T						BY			
SHEET						BY			
8						BY			

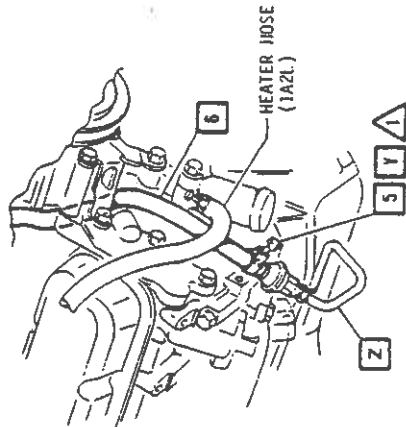
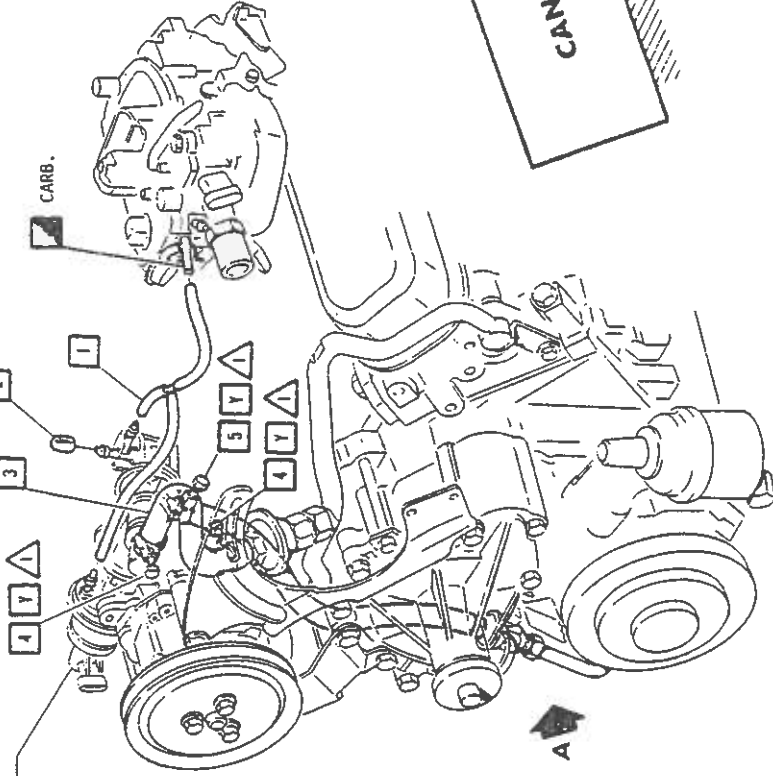
G
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PONTIAC MOTOR DIVISION
General Motors Corporation Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- | | |
|---|-------------|
| 1 | HARNES ASM. |
| 2 | CAP |
| 3 | HOSE |
| 4 | CLAMP |
| 5 | CLAMP |
| 6 | HOSE |



Y SEE FASTENERS GENERAL INSTRUCTIONS FOR PROPER INSTALLATION (DA.)

Z SEE UPC 6T-4 FOR PART NUMBERS & INSTALLATION

DYNAMIC (continued) - HAND (imp.) - M.M.		DATE	SYM	ISSUED	REVISION	DR	CE	ASN	QNTL	15FE80	DIV	1981 CHEV. "F" 14020867
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZONARSKI	1	ISSUED		96449	PK	107	DR	K. P. BIERI	CHEVROLET	TITLE
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1/28/80		SHEET CANCELED		97222	CU	87	DR	JEB	CHEVROLET	A. I. R. HOSES FAO & LUB & NB1
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								APPR	WME 22-280	MICR 8644B	2 (7831)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								APPR		NEW 1.1MR80	UPC
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								APPR			6T
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								APPR			9
<input checked="" type="checkbox"/> FULLY DRIVEN SEATED & NOT STRIPPED												

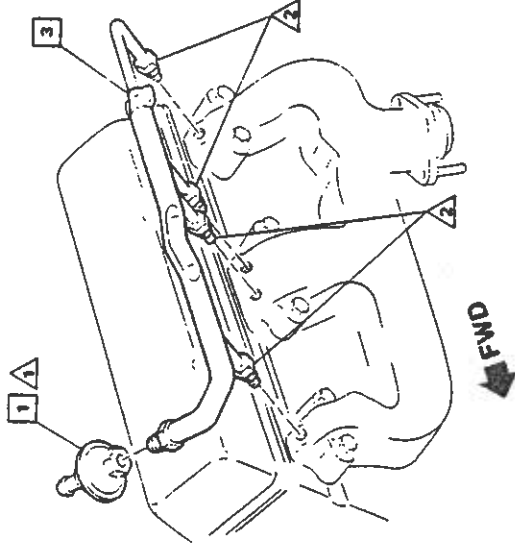
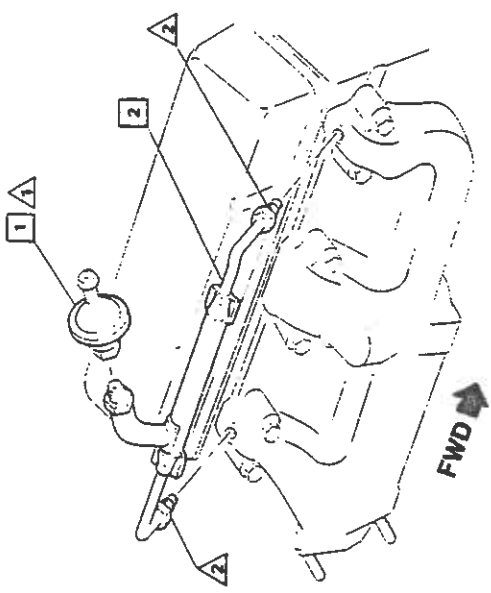


General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE
 PROCESS MATERIAL
 TORQUE
 EXISTING AS PART OF

- ① 22034703 CHECK VALVE
- 471542 PIPE ASM RH
- 343763 PIPE ASM LH



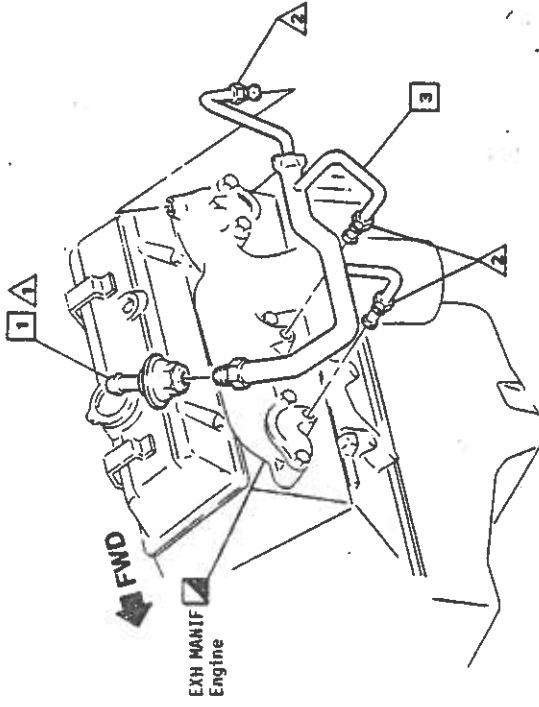
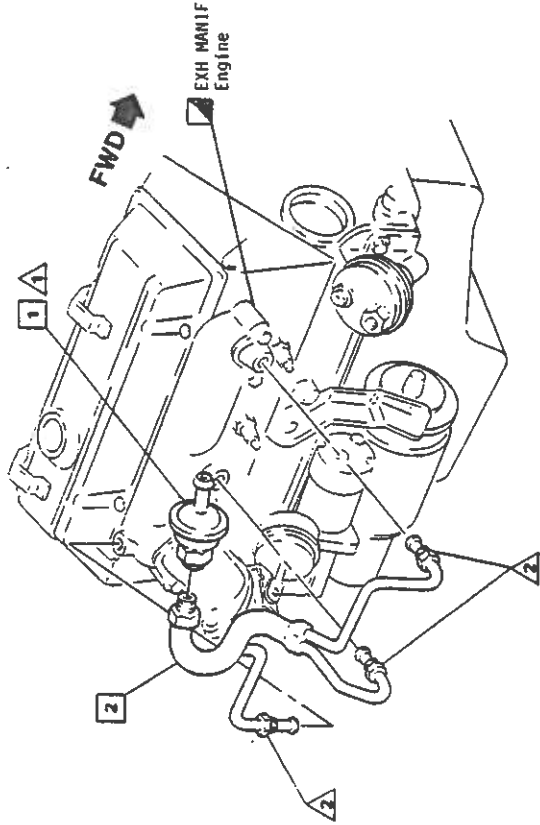
DYNAMIC (Instal) Item	HAND	Disp.	Item	DATE	SYM	REVISION	AUTH	DR	CK	DATE	20MAR 80	DIV
△ 19 - 21				03 SEP 80	1	WAS 22016902 VALVE	9/22/80	CU		DR	R KUCH	CHEVROLET
△ 16 - 23										APP	NS	CHEVROLET
△										APP	NS	CHEVROLET
△										APP	NS	CHEVROLET
△										APP	NS	CHEVROLET
FULLY DRIVEN, SEATED & NOT STRIPPED												
1981 CHEV. "F" 14020867 TITLE A.I.R. PIPES & CHECK VALVE LMI 8K19 8084 REF ECR 86448 NEW 13MR80 (NS) 6T SHEET 10.1												

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PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- ② 22034703 1 CHECK VALVE
- 14015580 2 PIPE ASM-RH
- ③ 1 14026183 3 PIPE ASM-LH



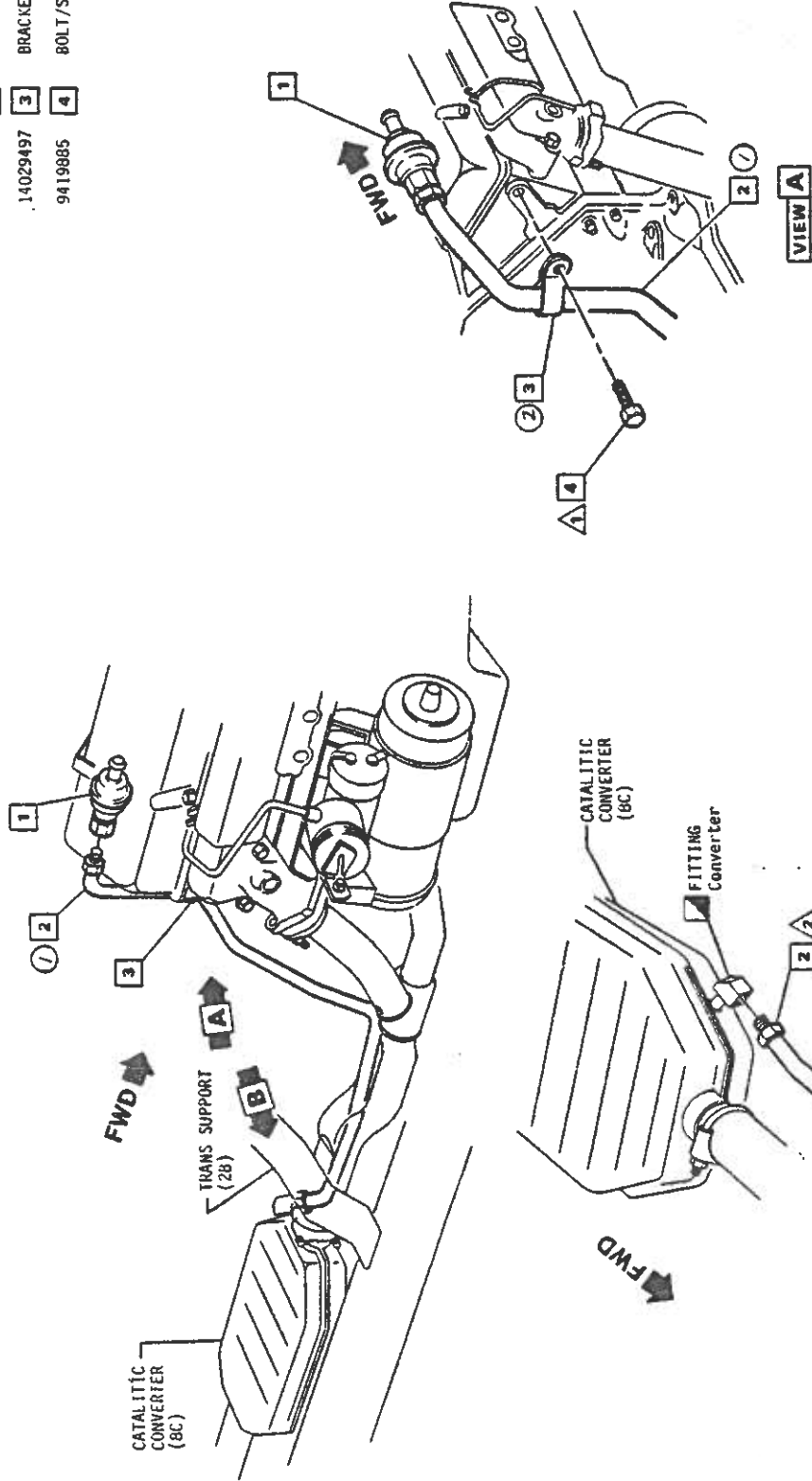
DYNAMIC (based on)	HAND (list.)	DATE	SYN	REVISION	AUTH	DR	CK	DATE	DIV	TITLE	SHEET
+ Δ	19-27	02/25/80	1	WAS 14026183 PIPE	97994	DR	CK	08/26/80	CHEVROLET	1981 CHEV. "F" 14020867	11
+ Δ	16-23	07/16/80	2	WAS 22016902 VALVE	91207	DR	CK	08/26/80	CHEVROLET	A.T.R. PIPES & CHECK VALVE	6T
+ Δ		07/16/80	3	WAS 14037669 PIPE	95160	DR	CK	08/26/80	CHEVROLET	FA00 & LC3	6T
+ Δ									CHEVROLET		11
+ Δ									CHEVROLET		11
+ Δ									CHEVROLET		11
FULLY DRIVEN, SEALED & NOT STOPPED											
DIV ECR 86448 C/O 11J480 6T-12 1-22738 (S) WPC 6T SHEET 11											

PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 22017478 VALVE ASM
- 14029495 PIPE
- 14029497 BRACKET
- 9419985 BOLT/SCREW



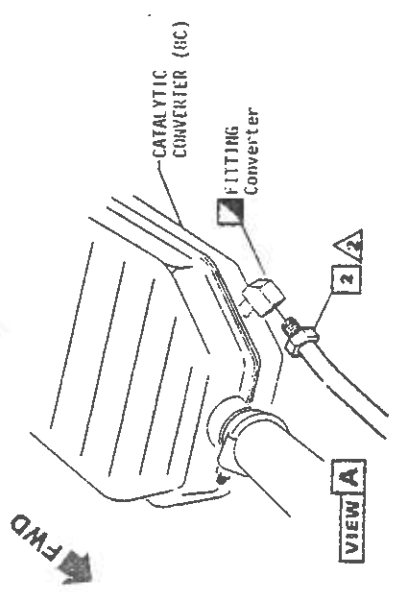
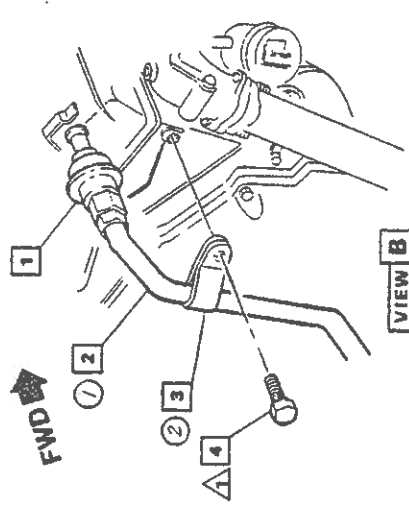
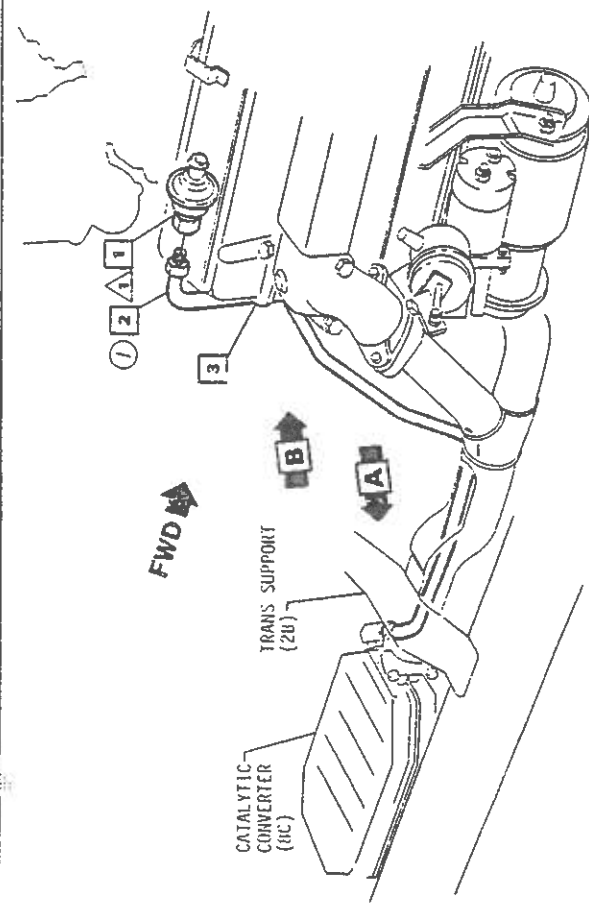
DATE		SYN		REVISION		DATE		BY		1981 CHEV. "F" 14020867	
10-15		1		ITEM 2 RELOCATED (2) PLACES		29FEB80		DR R. KOCH		TITLE	
4-6-6.0		2		ITEM 3 RELOCATED		CU/SA/C		PC-0061 188765		A.I.R. - CATALYTIC CONVERTER PIPE	
										FAOD & LG4/LM1/L39	
										CHEVROLET	
										REF ECR 86448	
										NEW 14FEB80	
										1-22808 (S)	
										UPC	
										6T	
										SHEET	
										12	

△ FULLY DRIVEN, SEATED & NOT STRIPPED

C B O P Ca

NEW REFERENCE PROCESS MATERIAL EXISTING AS PART OF

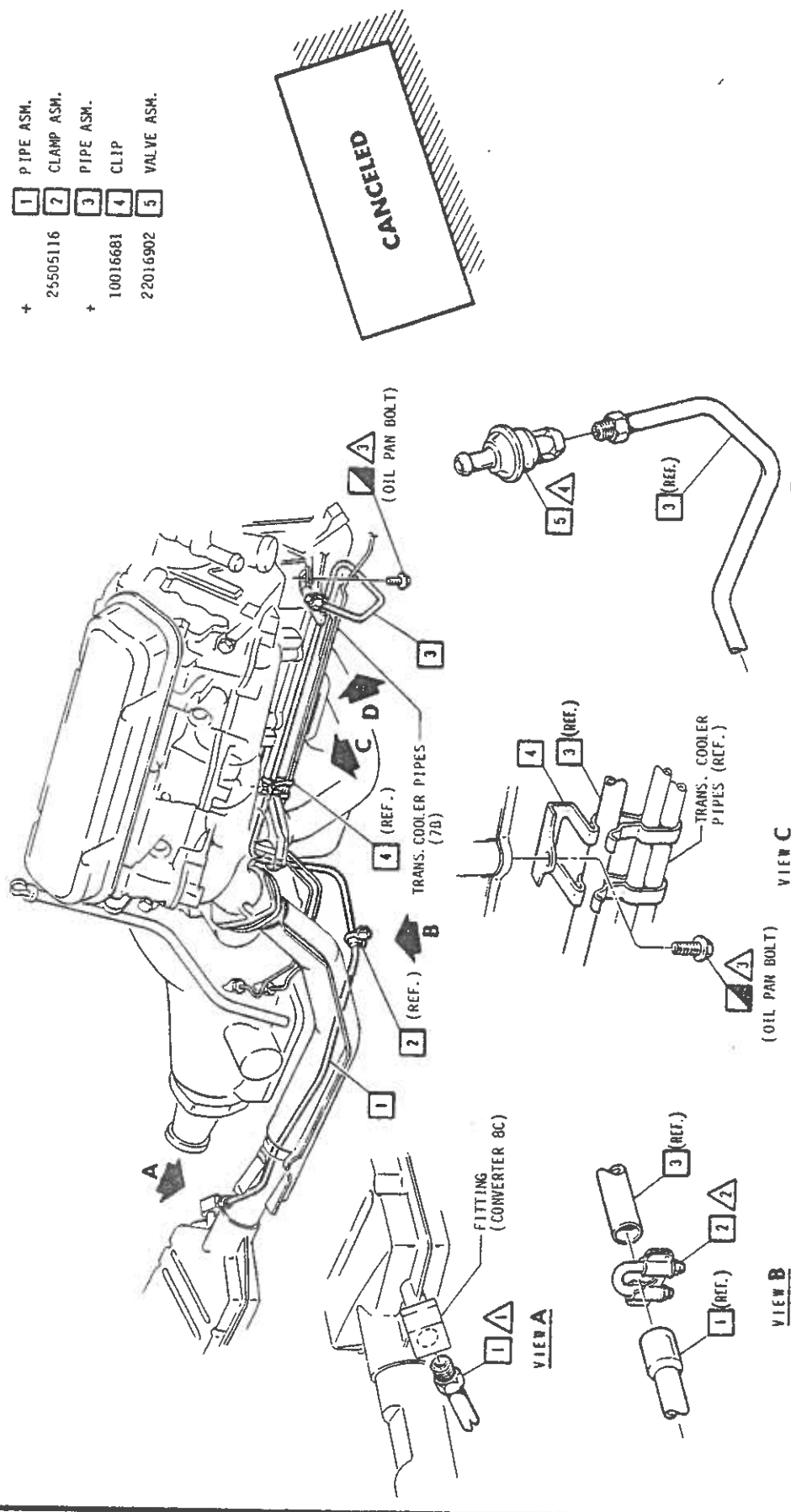
- 22017478 **1** VALVE ASM
- 14029495 **2** PIPE
- 14029497 **3** BRACKET
- 9419805 **4** BOLT/SCREW



DATE	SYN	REVISION	DR	CHK	APP	DATE	BY	1981 CHEV. "F" 14020867	
19-27	1	ITEM 2 REROUTED (2) PLACES	CU	CU		24FEB90	24FEB90	CHEVROLET	
4-5-6-0	2	ITEM 3 RELOCATED				DR. R. LINDNER	DR. R. LINDNER	A. I. R. CATALYTIC CONVERTER PIPE FA00 & LC3	
						(E) Jim Blaylock	(E) Jim Blaylock	I. 22808 (S)	
						APPL S	APPL S	6T	
								SHEET 13	
								NEW 21F80	
								UPC	
								86648	
								21F80	
301									
DYNAMIC (Inspection) - N/m									
DUTY DRIVER, SEATED & HOJ STRIPPED									
C B D P Co									

□ ITEM REFERENCE ◇ PROCESS MATERIAL △ TORQUE ▣

- + 1 PIPE ASM.
- 25505116 2 CLAMP ASM.
- + 3 PIPE ASM.
- 10016681 4 CLIP
- 22016902 5 VALVE ASM.

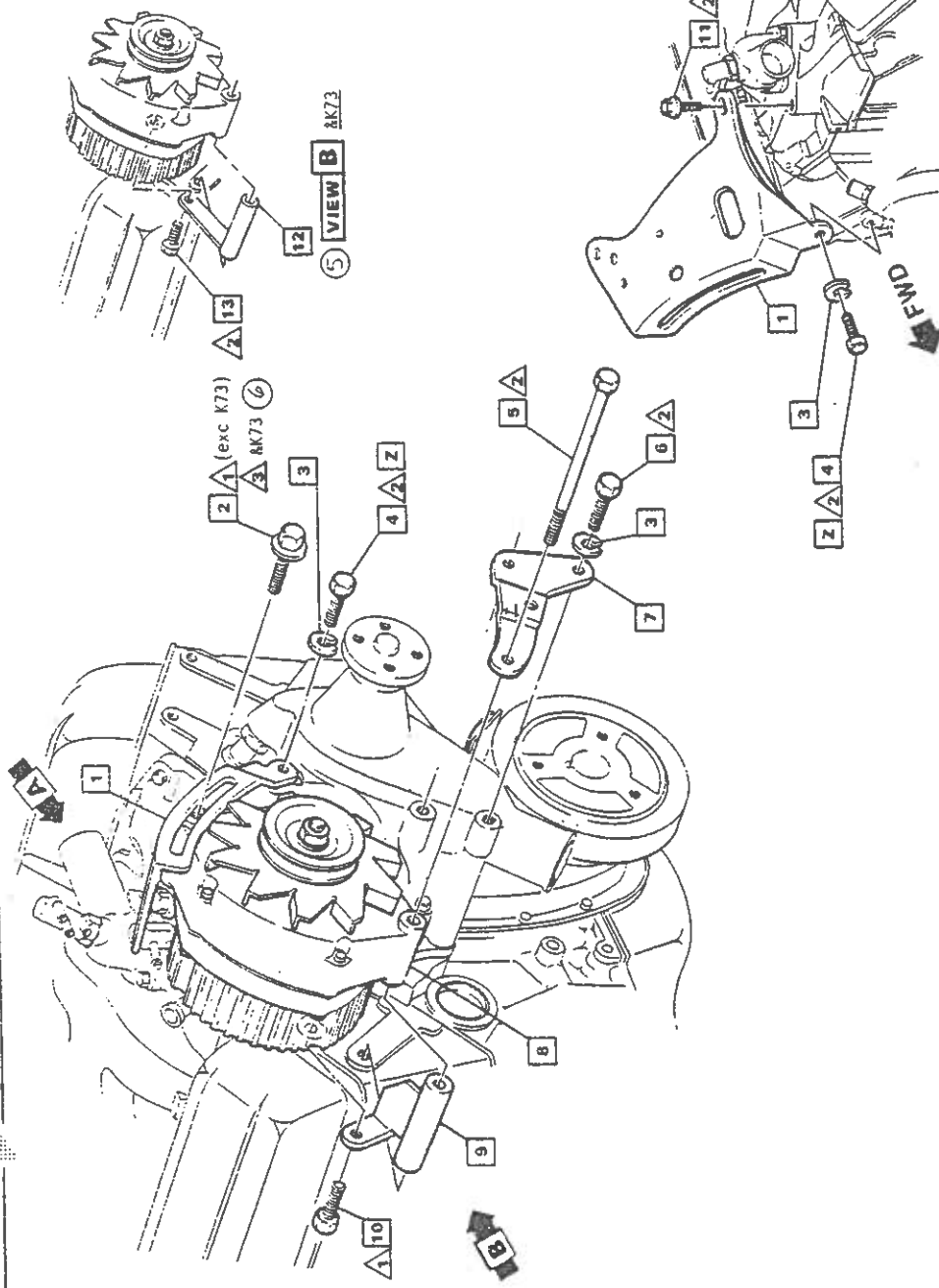


DYNAMIC (Instal) IN HAND (Instal) - R m		DATE	SYM	ISSUED	REVISION	DATE	BY	CHK	APP	DATE	DIV	
△	20 - 34	2/10/80	/	SHEET CANCELED							1981 CHEV. "F" 14020867	
△	11 - 14	2/10/80									CHEVROLET	
△	11 - 20										CONVERTER AIR FEED PIPES FACD & LUB & NDI	
△	19 - 27										REF ECR B6448 NEW 11MR80	
302											2 1-70357 1-1-1 1-1-1 6T	SHEET 14
EASY DRIVEN SEATED & NOT STIPPED												

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL THROUGH EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION



- 1 14034010 BRACKET-FRONT
- 2 14017794 8K73 BOLT/SCREW
- 3 11502605 8K73 BOLT/SCREW
- 4 103321 WASHER
- 5 9418967 DOLT/SCREW
- 6 3932414 BOLT/SCREW
- 7 9418822 BOLT/SCREW
- 8 14015533 BRACKET
- 9 6262934 SPACER-REAR
- 10 3993312 8LC3 BOLT/SCREW
- 11 11504270 BOLT/SCREW
- 12 273773 BOLT/SCREW
- 13 14017795 SPACER 8K73
- 14 11504512 BOLT/SCREW 8K73

GENERATOR ASM (SIOMH)
For specific releasing
& additional part
numbers, see Parts List.

Z Bolt/screw 4 to be driven prior to bolt/screw 11 & bolt/screw 12 not to be driven until after belt tensioning & adjusting bolt/screw 2 is driven.

VIEW A

VIEW B

DATE	REV	REVISION	DATE	BY	DIV	TITLE
22JAN80	1	14034010 WAS 469579		R. TAYLOR		1981 CHEV. "F" 14020867
	2	14017794 BRACKET ADDED		K. K. ANTHONY	CHEVROLET	GENERATOR MOUNTING
	3	11502605 BOLT/SCREW ADDED		J. J. PERRY		FAO0 ALL ENGINES exc L05 (7)
	4	ITEMS 12, 13 ADDED		J. J. PERRY		1-05972 (5) 6Y 1-08290 (5)
	5	VIEW B ADDED		J. J. PERRY		
	6	TORQUE 13 ADDED		J. J. PERRY		
	7	"LUB" REMOVED		J. J. PERRY		

303

△ FULLY DRIVEN, SLATED & NOT STOPPED
C K L M N O P Q

PONTIAC MOTOR DIVISION

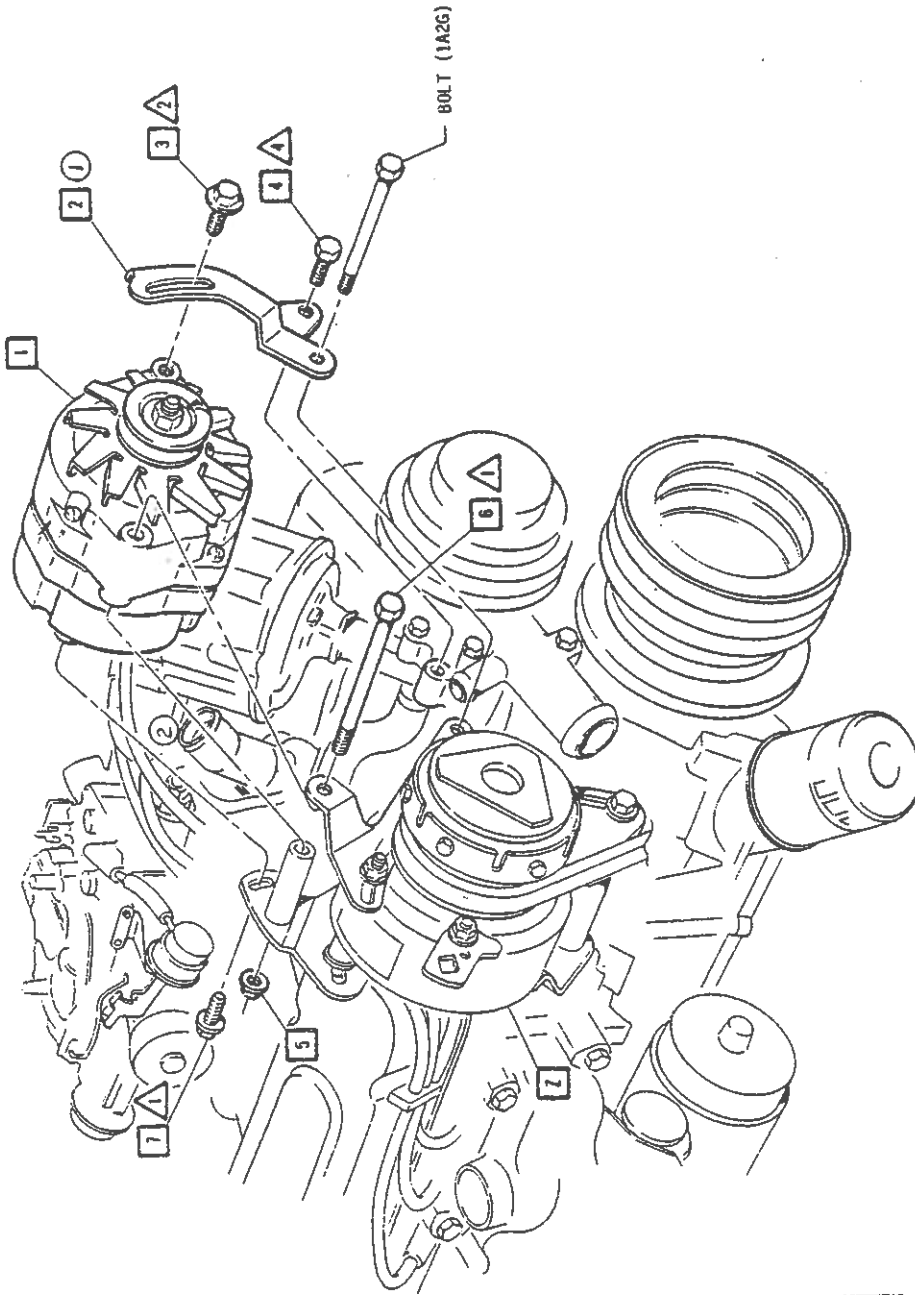
General Motors Corporation Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

EXISTING AS PART OF

ITEM REFERENCE PROCESS MATERIAL TORQUE

- | | | |
|---|----------------|----------|
| 1 | GENERATOR ASM. | 1101071 |
| 2 | BRACKET | 10013948 |
| 3 | BOLT / SCREW | 10008894 |
| 4 | BOLT / SCREW | 9419785 |
| 5 | NUT | 11501850 |
| 6 | BOLT / SCREW | 11505007 |
| 7 | BOLT / SCREW | 11502685 |



SEE UPC 1A2G FOR COMPRESSOR AND BRACKETS PART NUMBERS AND INSTALLATION.

Z

1981 CHEV. "F" 14020867



CHEVROLET
 ECF ECR 86448
 NEW 23MY80
 6Y-6 RCT

DATE 30AP80
 DR P. P. SIEZL
 P
 APR 21 1980

REVISION
 1 ITEM 2 DWG REV
 2 WATER OILT DWG REV

DATE	SYN	ISSUED	REVISION
28JAN80			
22AUG80			

DYNAMIC FUNCTION	WIND (Imp.)	N.m
△	40-60	
△	26-48	
△	26-40	
△	20-34	

△ FULLY DRIVEN, SEATED & NOT STRAPPED.

304

6Y 2.1

14020867

PRODUCT DESCRIPTION MANUAL

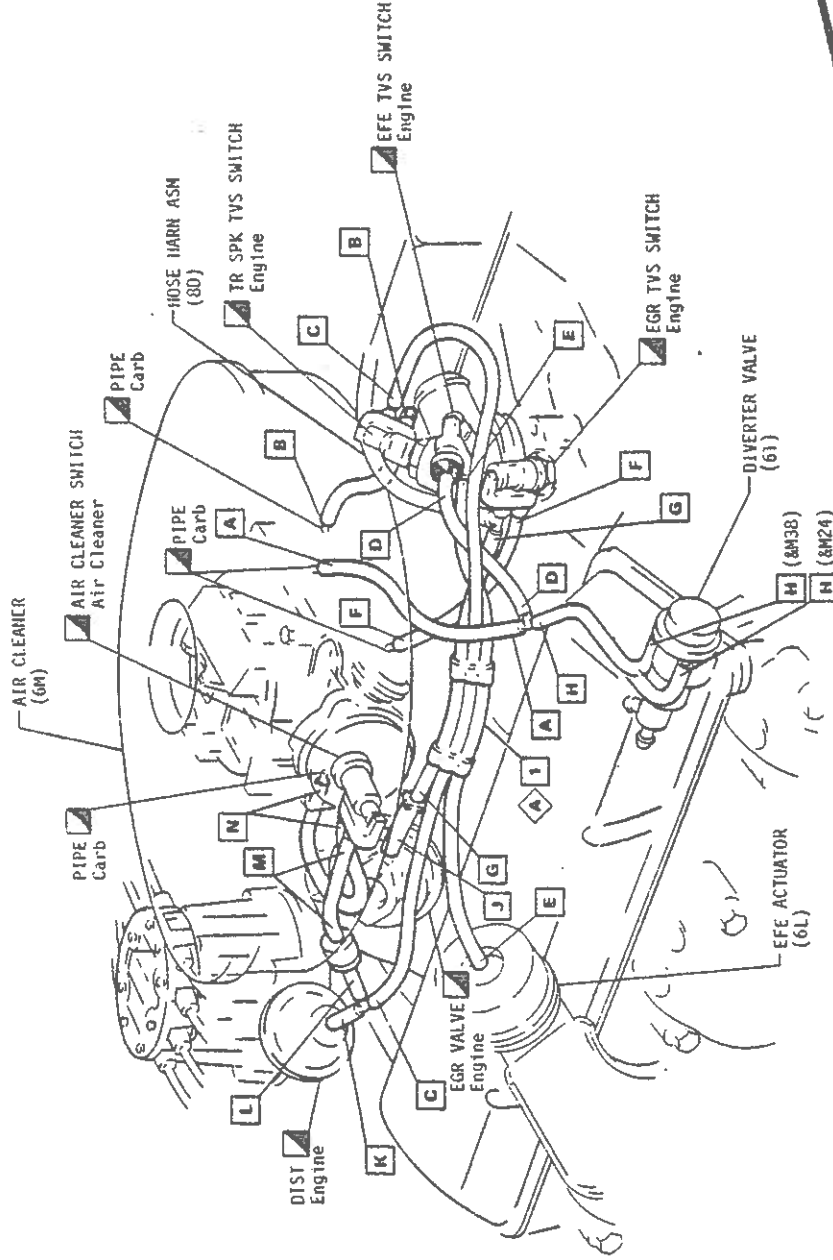
General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 14023109 HARNASS ASM 8M38
- 14023109 8M24
- 9985406 RUBBER LUBRICANT
Approx. .015L per job.

A THRU **N** Letters used to indicate color code and opposite ends of each tube in Tube Asm for proper routing.

TUBE	COLOR CODE
A	Yellow Solid Stripe
B	Lt. Brown Dashed Stripe
C	Lt. Green Solid Stripe
D	Yellow Solid Stripe
E	White Solid Stripe
F	Purple Solid Stripe
G	Orange Solid Stripe
H	Pink Dashed Stripe
J	None
K	None
L	None
M	Red Solid Stripe
N	None



WAITING LAYOUT APPROVAL

1981 CHEV. "F" 14020867	14023109	8M38	8M24	9985406	RUBBER LUBRICANT Approx. .015L per job.
	CHEVROLET	ECR 86448	NEW 18JRB0	6Y	13.1
DATE 27JUN80	DR R KOCH	CHK	APP HS	APP	APP
REV	REV	REV	REV	REV	REV
AUTH	REV	REV	REV	REV	REV
305					
DR	DATE	SYN	DATE	SYN	DATE
1					
1					
1					
1					
1					
AWAY DRIVER, SEALED & NOT STOPPED					
C	H	B	0	F	G

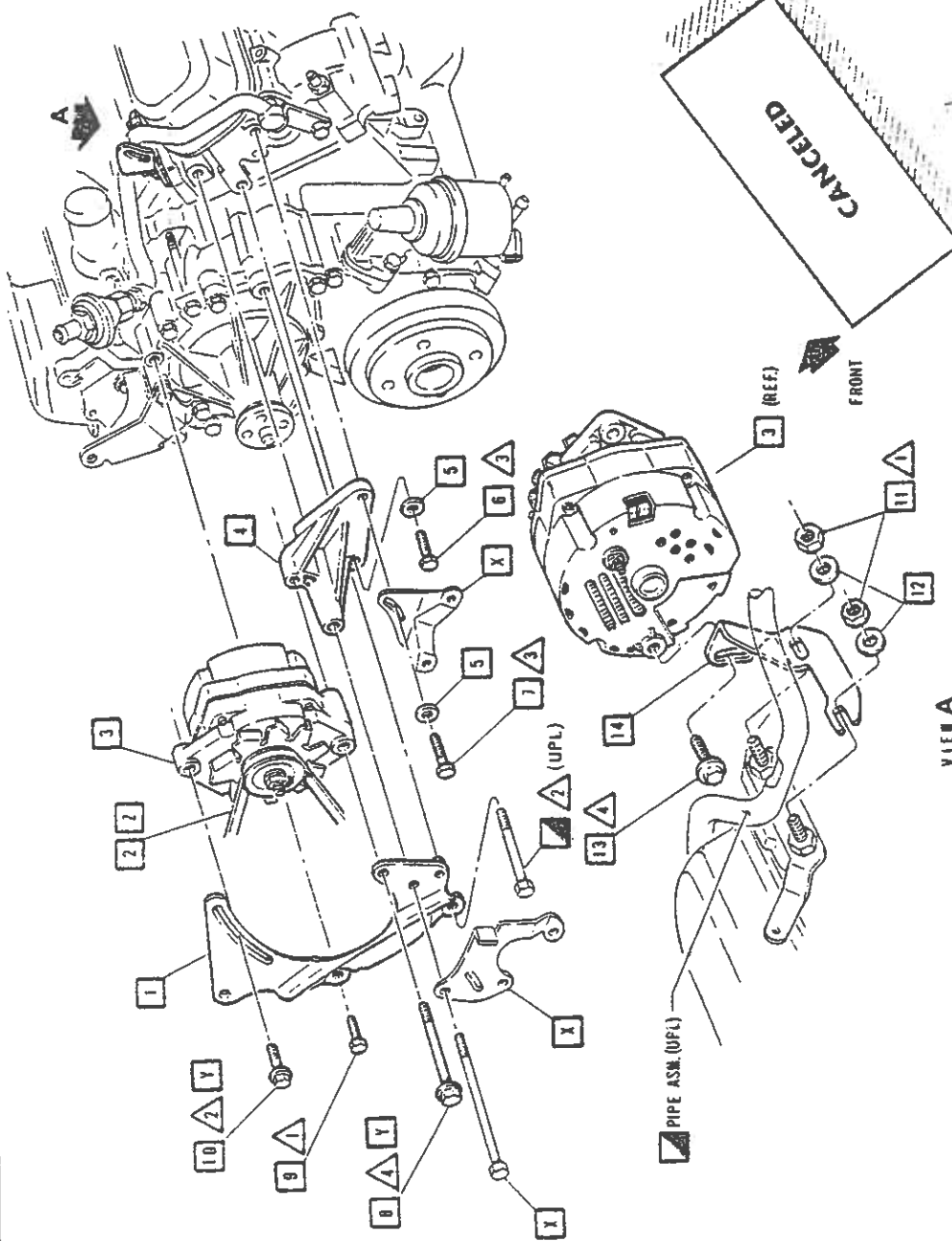
PONTIAC MOTOR DIVISION

General Motors Corporation
Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 10014890 1 BRACKET ASM.
- 9433664 2 BELT
- 1101080 3 GENERATOR ASM.
- 10010137 4 SUPPORT
- 502306 5 WASHER
- 9418024 6 BOLT
- 8419053 7 BOLT
- 11504745 8 BOLT
- 180083 9 BOLT
- 10008894 10 BOLT
- 9417954 11 NUT
- 537209 12 WASHER
- 11502605 13 BOLT
- 10010136 14 BRACKET

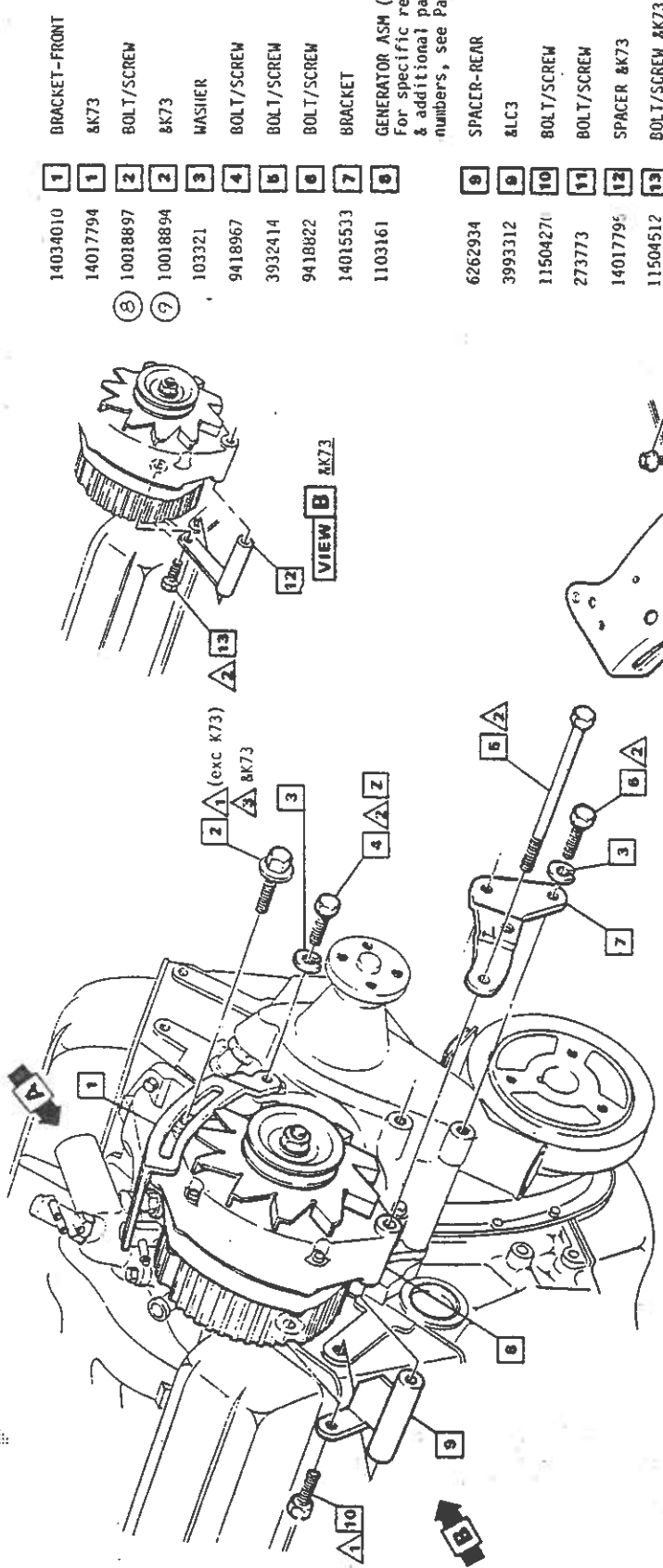


- X PARTS RELEASED & SHOWN IN UPC 9E.
- Y TIGHTEN BOLT 10 BEFORE BOLT 6 WHILE BELT TENSIONING DEVICE IS IN POSITION.
- Z FOR BELT ROUTING SEE 'PULLEY & BELT DIAGRAM' - UPC 6Z.

DYNAMIC (In-hand) or HAND (Insp) - M M		DATE	SYN	ISSUED	REVISION	DATE	BY	TITLE		
△ 20-34	△ 26-40	△ 26-48	△ 40-60	1	CANCELED	9/22/79	J.P.	1981 CHEV. "F" 14020867		
				SHEET		REV		GENERATOR MOUNTING		
				/		APPV		FA00 & LUB		
						APPV		CHEVROLET		
						APPV		GM ECR 8644B		
						APPV		NEW 26FEB0		
								6Y-2 RT		
								6Y		
								SHEET		
								3		
<input type="checkbox"/> FULLY DRIVEN <input type="checkbox"/> SEALED & NOT STRIPPED <input checked="" type="checkbox"/> GO										

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF



- 1 14034010 BRACKET-FRONT
- 1 14017794 &K73
- 2 10018897 BOLT/SCREW
- 2 10018894 &K73
- 3 103321 WASHER
- 4 9418967 BOLT/SCREW
- 5 3932414 BOLT/SCREW
- 6 9418822 BOLT/SCREW
- 7 14015533 BRACKET
- 8 1103161 GENERATOR ASM (SHOWING specific releasing & additional part numbers, see Parts List.)
- 9 6262934 SPACER-REAR
- 9 3993312 &LCS
- 10 11504270 BOLT/SCREW
- 11 273773 BOLT/SCREW
- 12 14017795 SPACER &K73
- 13 11504512 BOLT/SCREW &K73

Z Bolt/screw 4 to be driven prior to bolt/screw 11 & bolt/screw 12 not to be driven until after belt tensioning & adjusting bolt/screw 12 is driven.

VIEW A

VIEW B

DATE		SYN		REVISION		DIV		1981 CHEV. "F" 14020867	
04/17/81	8	10018897 WAS 11502605	9	10018897 WAS 11502606	OF R. TAYLOR	CHEVROLET	GENERATOR MOUNTING	7	
					APR S	86448	FAO ALL ENGINES exc L05	SHEET	
					APR	C/O 290480		6Y	
					APR	6Y-1		1	
DYNAMIC (Inch) N-m		HAND (Inp. J. - Ft)		FULLY DRIVEN, SEALED & HOT STRIPPED					
A 20-30		A 16-40		A 36-50					
A 16-40		A 36-50		A 36-50					
A 36-50		A 36-50		A 36-50					
A 36-50		A 36-50		A 36-50					

307

PRODUCT DESCRIPTION MANUAL

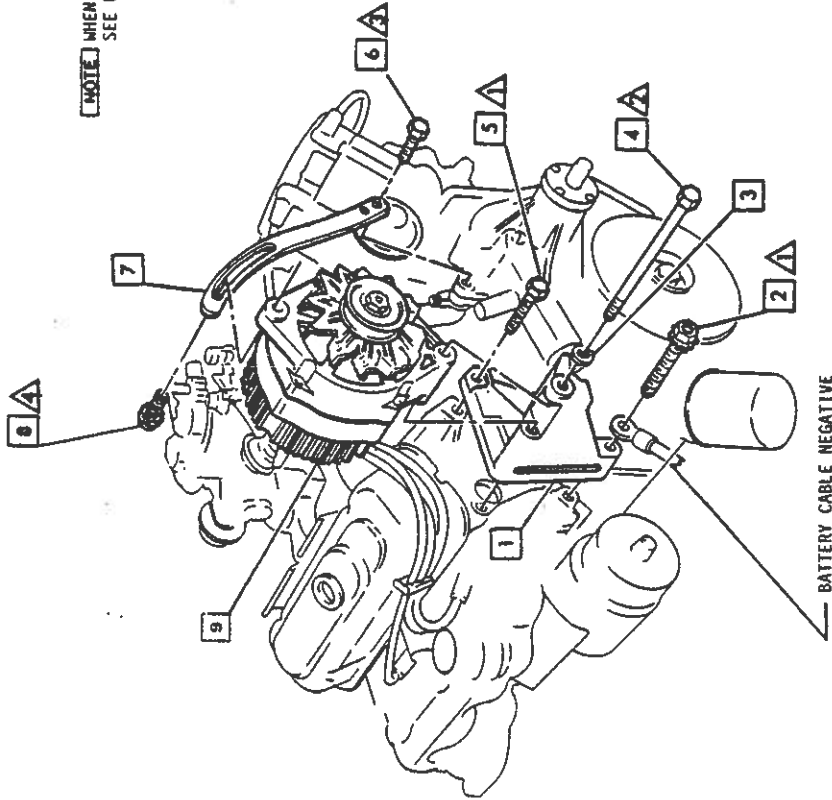
BUICK MOTOR DIVISION
GENERAL MOTORS CORPORATION FLINT, MICHIGAN

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- | | |
|---|-------------------------|
| 1 | BRACKET - GENERATOR MTG |
| 2 | SCREW ASM |
| 3 | WASHER |
| 4 | BOLT |
| 5 | BOLT |
| 6 | BOLT |
| 7 | BRACE |
| 8 | BOLT |
| 9 | GENERATOR ASM (SHOWN) |

For specific releasing & additional part numbers, see Parts List.

NOTE WHEN AIR CONDITIONING IS SPECIFIED SEE UPC GROUP 1A2G.



DYNAMIC (ISSUED) HAND (INSP.) - N.M.		DATE	SYM	ISSUED	REVISION	ANTH	DR	CE	ASH	DATE	DIV	1981 CHEV. "F" 14020867	
40-60	50-70	20-34	20-30			86448	C/D			22JAT9	DR MAC DORMOTT	TITLE	
										APR 1 1981	CHEVROLET	GENERATOR MOUNTING	
										APR 1 1981	ECR 86448	FAOD & LDS (exc C60)	
										APR 1 1981	C/O 05MVB0	UPC	
										APR 1 1981	6Y-1 RT	6Y	
												SHEET 2	

△ FULLY DRIVEN, SEATED & NOT STRIPPED

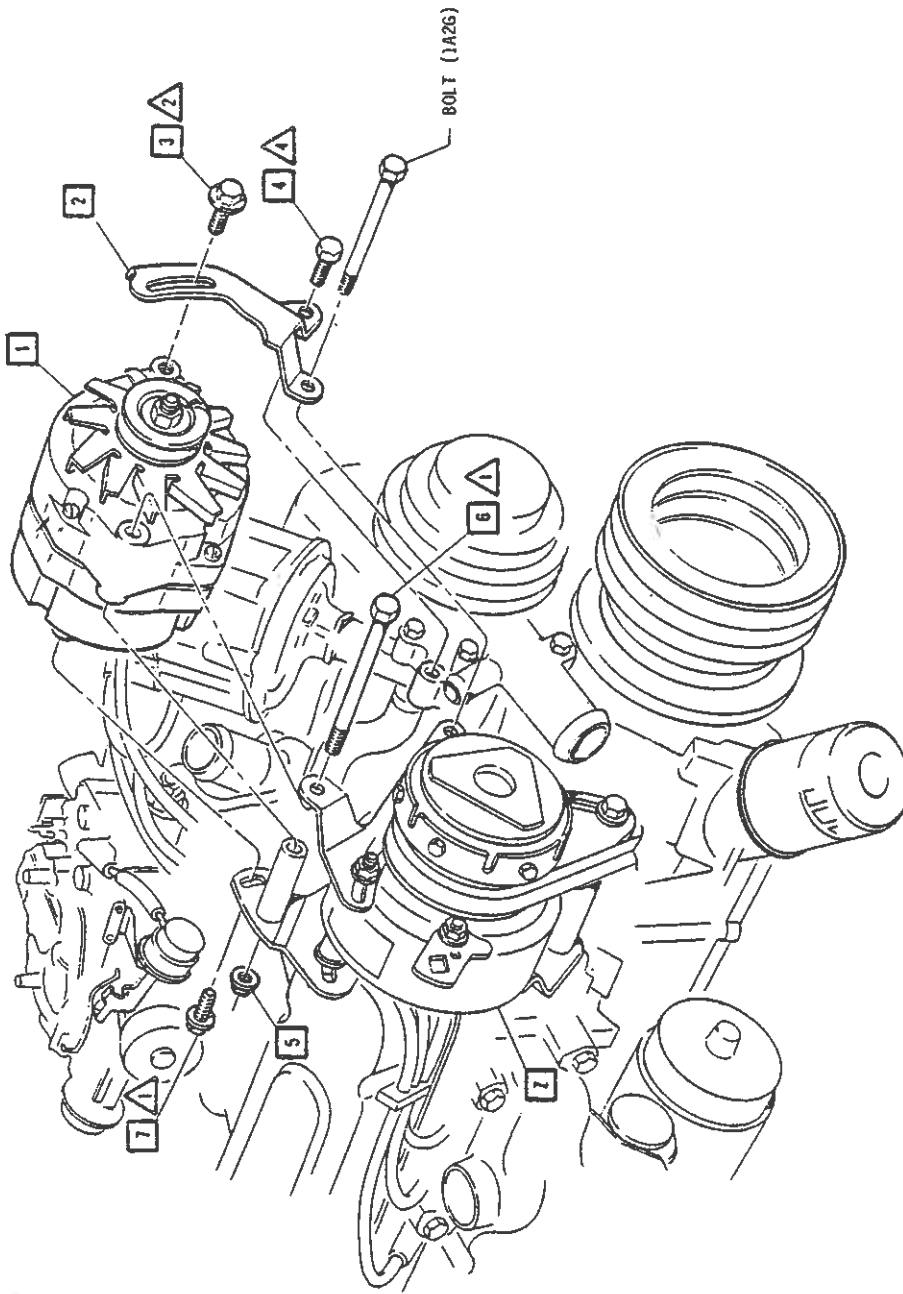
PONTIAC MOTOR DIVISION

General Motors Corporation Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- | | |
|------------|----------------|
| 1101071 | GENERATOR ASM. |
| + 10013948 | BRACKET |
| 10008894 | BOLT / SCREW |
| 9419785 | BOLT / SCREW |
| 11501850 | NUT |
| + 11505007 | BOLT / SCREW |
| 11502685 | BOLT / SCREW |



7 SEE UPC 1A26 - FOR COMPRESSOR AND BRACKETS PART NUMBERS AND INSTALLATION.

DYNAMIC (Inch) mm HAND (Inch) mm DATE (C/M/Y) SYM ISSUED 40-60 26-48 26-40 20-34		REVISION 309	AUTN DR CE B6494 C.P. 2	DATE 30AP80 BY R.P.BIERI APP: ALD APP:	DIV CHEVROLET B6 ECR 86448 NEW 23MY80 6Y-6 RCT	1981 CHEV. "F" 14020867 GENERATOR MOUNTING FA00 & LD5 & K73	SHEET 2 1-78593 6Y 2.1
EARLY DRIVEN SEATED & NOT STRIPPED							
0 0 0 0 0 0 0 0							

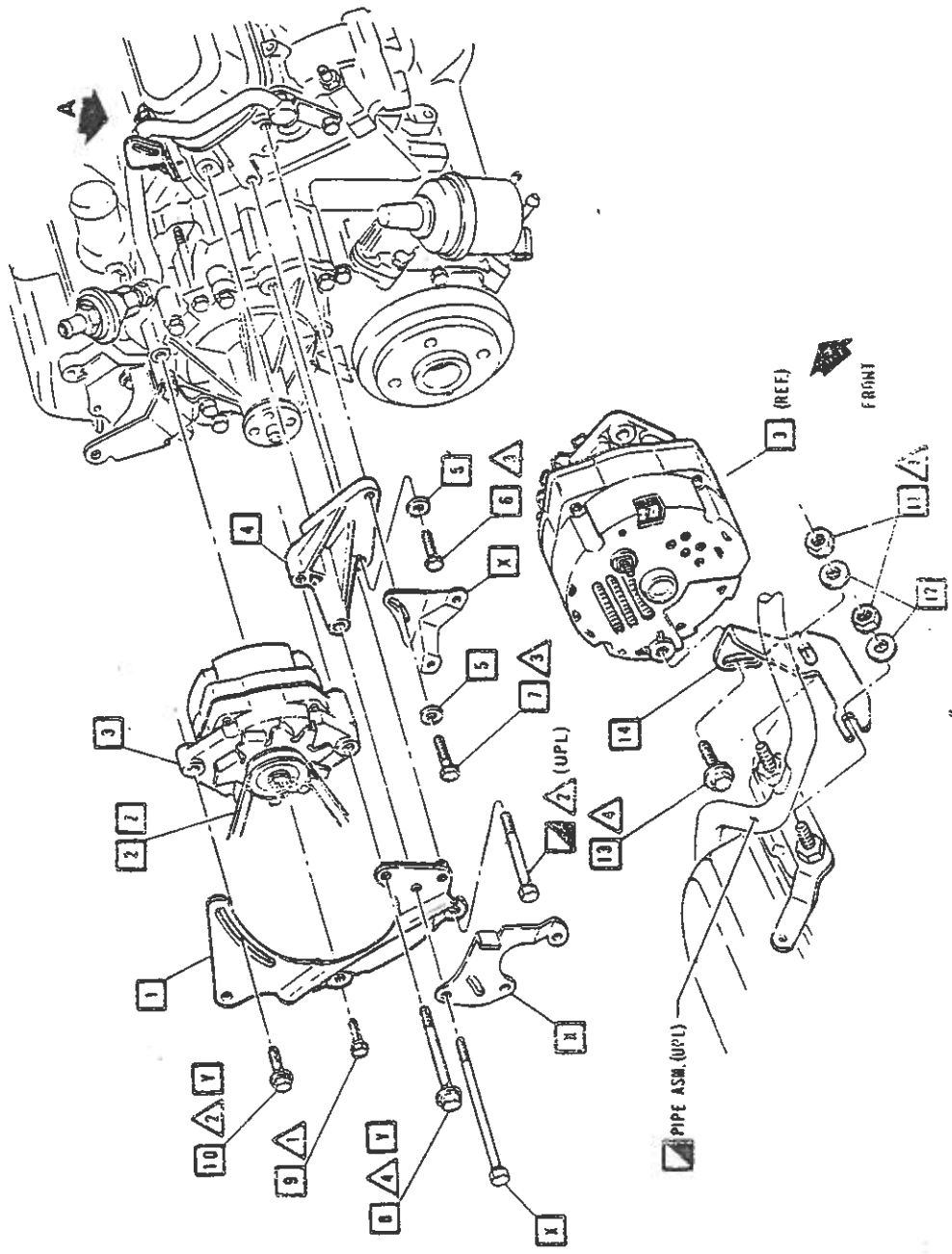
PONTIAC MOTOR DIVISION

General Motors Corporation Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL EXISTING AS PART OF

- + 10014890 BRACKET ASM.
- + 3433664 BELT
- + 1101080 GENERATOR ASM
- + 19010137 SUPPORT
- + 502306 WASHER
- + 9418824 BOLT
- + 9419053 BOLT
- + 11504745 BOLT
- + 180083 BOLT
- + 10008694 BOLT
- + 9417954 NUT
- + 537209 WASHER
- + 11502685 BOLT
- + 10010136 BRACKET



- PARTS RELEASED & SHOWN IN UPC 91.
- TIGHTEN BOLT BEFORE BOLT WHILE BELT TENSIONING DEVICE IS IN POSITION.
- FOR BELT ROUTING SEE 'PULLEY & BELT DIAGRAM' - UPC 62.

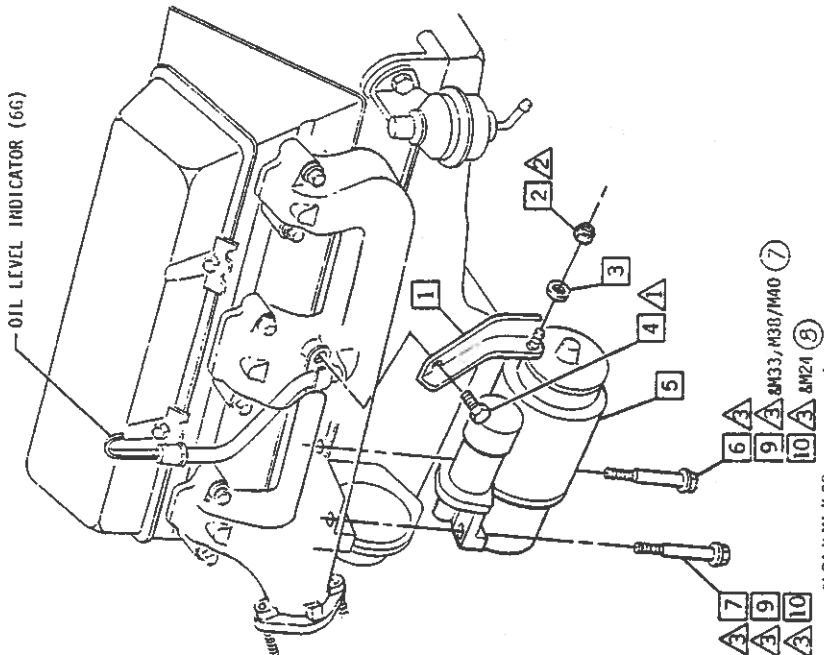
DATE	ISSUED	BY	DATE	ISSUED	BY	DATE	ISSUED	BY	DATE	ISSUED	BY
2-24			2-24			2-24			2-24		
26-26			26-26			26-26			26-26		
26-28			26-28			26-28			26-28		
46-60			46-60			46-60			46-60		
DIVISION: 310 TITLE: GENERATOR MOUNTING FAO & LUB PART NO: 1001080 QTY: 6Y SHEET: 3											

PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL EXISTING AS PART OF

- | | | |
|----------|-----------|---|
| 3965589 | 1 | BRACKET |
| 461340 | 1 | &L39 or LG4 &MV4 (7) |
| 14037620 | 1 | &LC3 |
| 9422273 | 2 | NUT |
| 190254 | 2 | &L39 or LG4 &MV4 (7) |
| 9419274 | 3 | WASHER |
| 9421080 | 3 | &L39 or LG4 &MV4 (7) |
| 14020698 | 4 | BOLT/SCREW |
| 1109062 | 5 | STARTER MOTOR (SIKOHN)
For specific releasing & additional part numbers, see Parts List. |
| 1258672 | 6 | BOLT/SCREW &L39 or LG4 &MV4 (7) |
| 1258673 | 7 | BOLT/SCREW &L39 or LG4 &MV4 (7) |
| 3366042 | 8 | BOLT/SCREW |
| 3366043 | 9 | BOLT/SCREW |
| 3733289 | 10 | BOLT/SCREW |



1981 CHEV. "F" 14020867
 TITLE
 STARTER MOTOR
 FAO & ALL ENGINE EXC L05 **(9)**
 DIV CHEVROLET
 REF CR 86448
 C/O 16JAB0
 6Y-4
 1-95951 (5)
 WPC
 6Y
 SHEET 4

DATE	BY	CHK	APP	DATE	BY	CHK	APP
03/22/81	R. HILOR			03/22/81	R. HILOR		
03/22/81	C. J. HILOR			03/22/81	C. J. HILOR		

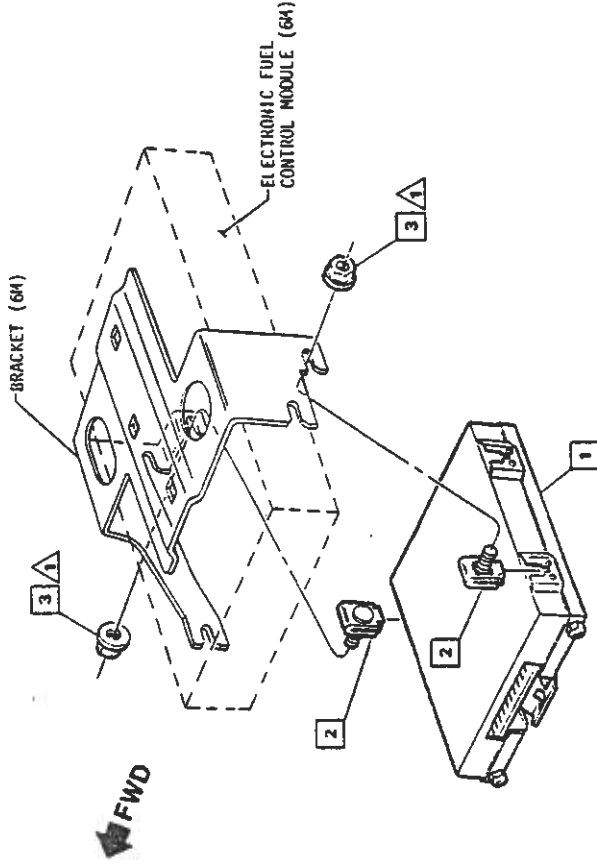
DATE	SYN	REVISION
03/22/81	6	REDDRAWN & REDESIGNED
03/22/81	7	OPTS. REV (7) PLCS
03/22/81	8	&M24 ADDED (2) PLCS
03/22/81	9	&L05 - REM

FULLY DRIVEN, SEALED & NOT STAMPED
 C X 8 0 0 P X Co

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 16013312 1 CONTROLLER-IGN SPARK
- 469088 2 BOLT/SCREW
- 11501814 3 NUT



CANCELED

General Motors Corporation
 CHEVROLET MOTOR DIVISION



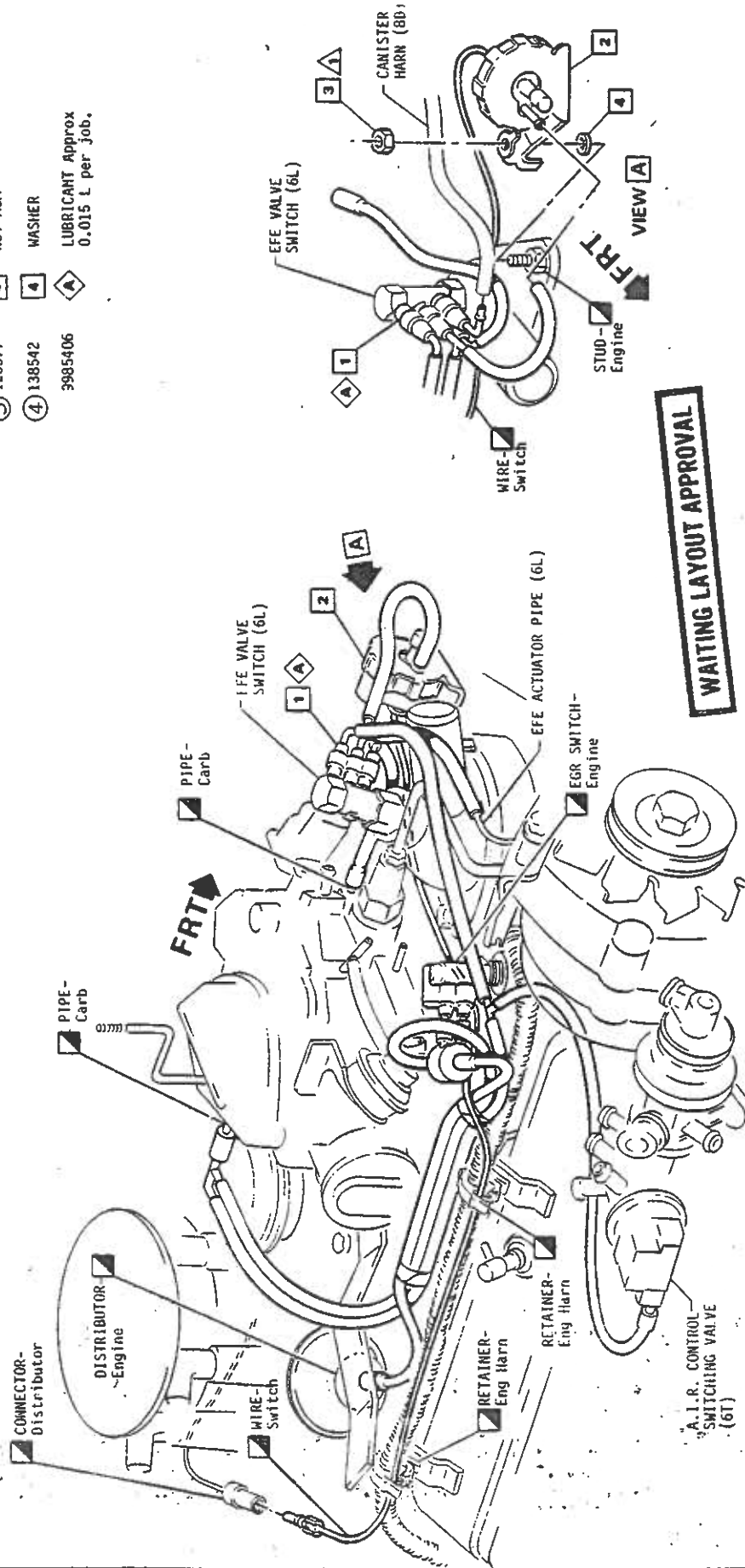
DATE DINAGB	REV 1	SHEET CANCELED	REVISION	DATE 06.03.80	BY R. LINDNER	DIV CHEVROLET	1981 CHEV. "F" 14020867
UTRANC (In-14) (In-14) (In-14) (In-14)	1.2-1.6						
FULLY DRIVEN, SEALED & NOT STRIPPED				314			
ICHITION SPARK CONTROLLER FA00 & LUB & MD1				21-00651 6Y 9			

A B C D E F G

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 14031141 1 HARNESS ASM
- 14032057 2 SWITCH ASM-SPARK RETARD
- ③ 120377 3 NUT ASM
- ④ 138542 4 WASHER
- 3985406 ▲ LUBRICANT APPROX 0.015 L per Job.



DATE	SYN	REVISION	AUTH	DE	CE	ASH	DATE	DIV
4/2/80	1	REDRAWN & REDESIGNED	30322	RL	C	DR	2/15/80	1981 CHEV. "F" 14020867
1/30/80	2	TORQUE 26-40 ADDED				DR	2/15/80	TITLE
14NOV80	3	WAS 9418931 NUT	91344	CU	RET	DR	2/15/80	CHEVROLET
	4	ITEM 4 ADDED	91344	CU	RET	DR	2/15/80	HARNESS ASM-EXHAUST EMISSION CONTROL FRAOD 8LCS 8NB1
						APPR	2/15/80	1-1-24776(NS) UPC
						APPR	2/15/80	SHEET
						APPR	2/15/80	6Y
						APPR	2/15/80	10

▲ FULLY DRIVEN, SEATED & NOT STIMPED

PRODUCT DESCRIPTION MANUAL

EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION

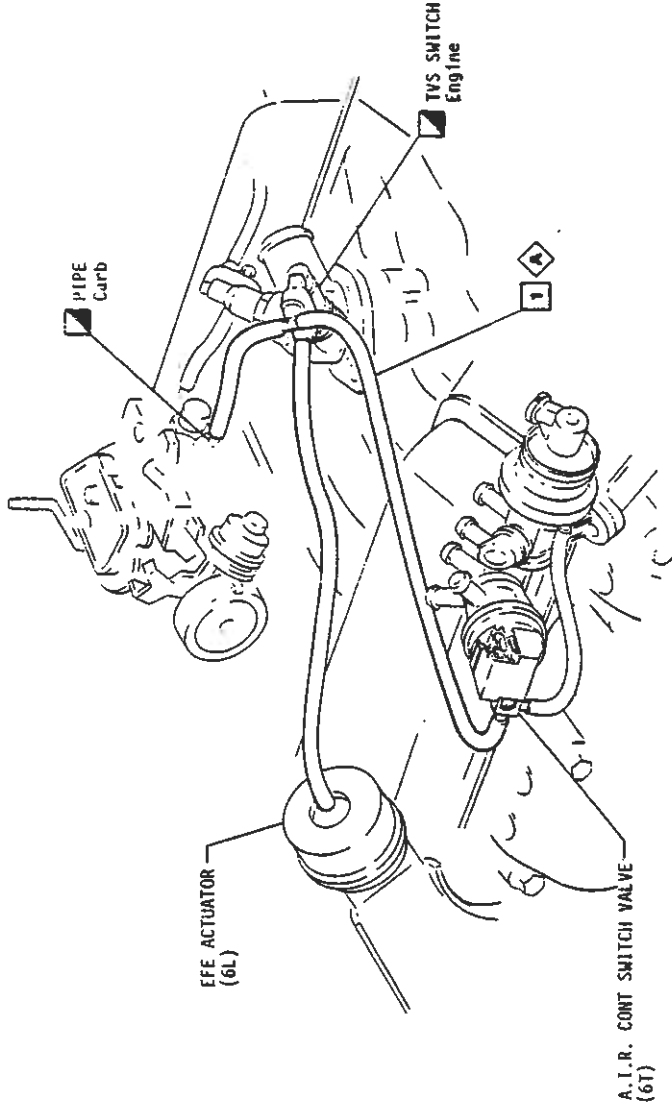
ITEM REFERENCE

PROCESS MATERIAL

TORQUE

14031142 1 HOSE ASM

9986406 \blacktriangle RUBBER LUBRICANT
Approx. .015 L per job



WAITING LAYOUT APPROVAL

1981 CHEV. "F" 14020867	
DIV	CHEVROLET
EMISSION HOSES FA00 BL39 (exc IN15)	
WT	6Y
NEW 15FEB0	11

DATE	BY	REV	DESCRIPTION
22FEB80	R. KOCH	1	Initial Design
APR 85		2	
APR 85		3	
APR 85		4	

DATE	BY	REV	DESCRIPTION

31C

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS TO DIMENSION LINES UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS TO DIMENSION LINES UNLESS OTHERWISE SPECIFIED

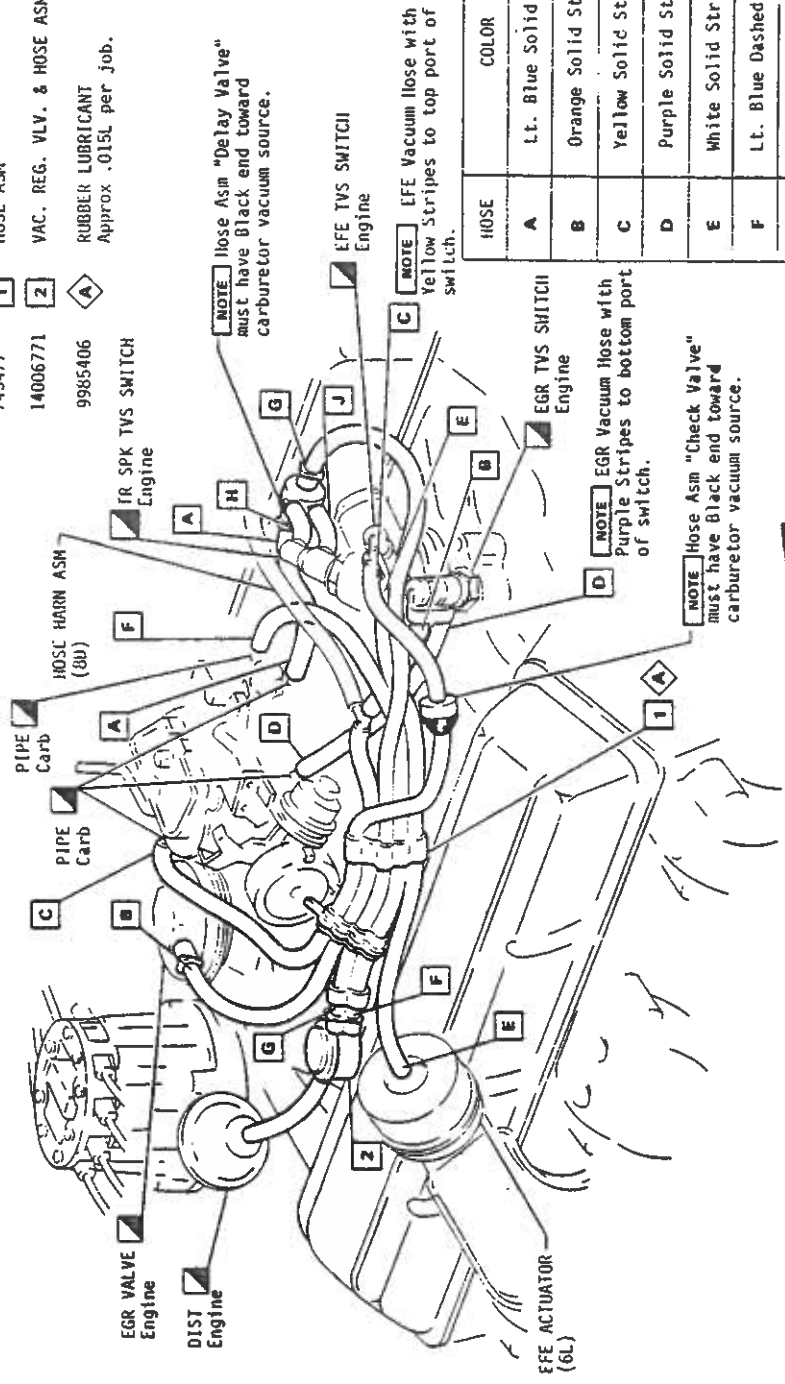
ALL DIMENSIONS TO DIMENSION LINES UNLESS OTHERWISE SPECIFIED

PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 1 HOSE ASM
- 2 VAC. REG. VLV. & HOSE ASM
- 3 RUBBER LUBRICANT
Approx. .015L per job.



HOSE	COLOR
A	Lt. Blue Solid Stripe
B	Orange Solid Stripe
C	Yellow Solid Stripe
D	Purple Solid Stripe
E	White Solid Stripe
F	Lt. Blue Dashed Stripe
G	Lt. Green Solid Stripe
H	Lt. Brown Dashed Stripe
J	Red Solid Stripe

WAITING LAYOUT APPROVAL

A THRU J Letters used to indicate color code and opposite ends of each tube in Hose Asm for proper routing.

DYNAMIC (In. Lb.)		DATE	SYM	REVISION	DATE - IAFEB0	DIV	1981 CHEV. "F" 14020867
1		10/28/80		"NMG" WAS "NMS"	DR R KOBH	CHEVROLET	EMISSION HOSES FAUO 4L39 & NMG 1
2					CK R... ..	REF ECR 86448 C/O OAFEB0 6Y-15.1	(NS)
3					APPR NS		6Y
4					APPR		11.1
5					APPR		SHEET

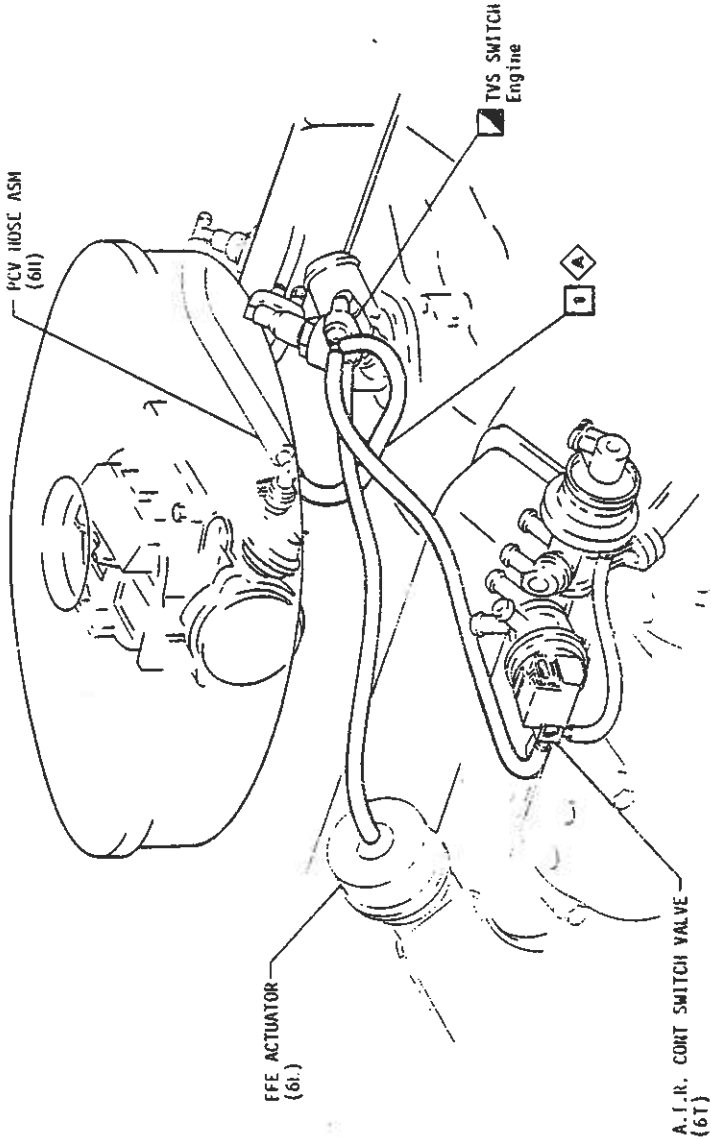
FULLY DRAWN, SEALED & NOT STAMPED

PRODUCT DESCRIPTION MANUAL

EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION

14031143 HOSE ASM
9985406 RUBBER LUBRICANT
Approx .015 L per Job



WAITING LAYOUT APPROVAL

<p>1981 CHEV. "F" 14020867</p> <p>EMISSION HOSES FAUD & LG4 OF LM1 exc IM5</p> <p>ECR 8644B NEW 15F80</p> <p>IPC 6Y</p> <p>SHEET 12</p>	<p>CHEVROLET</p> <p>ECR 8644B NEW 15F80</p>	<p>DATE 07/19/80 BY R KOCH APP NYS APP NYS APP</p>	<p>DATE 07/19/80 BY R KOCH APP NYS APP NYS APP</p>	<p>REVISION</p>	<p>DATE</p>	<p>SYM</p>	<p>DATE</p>	<p>BY</p>	<p>BY</p>
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31E

REVISION

DATE

BY

DATE

BY

PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 745476 1 HOSE ASM
- 9985406 A RUBBER LUBRICANT
Approx .015L per job.

A H Letters used to indicate color code and opposite ends of each tube in hose Asm for proper routing.

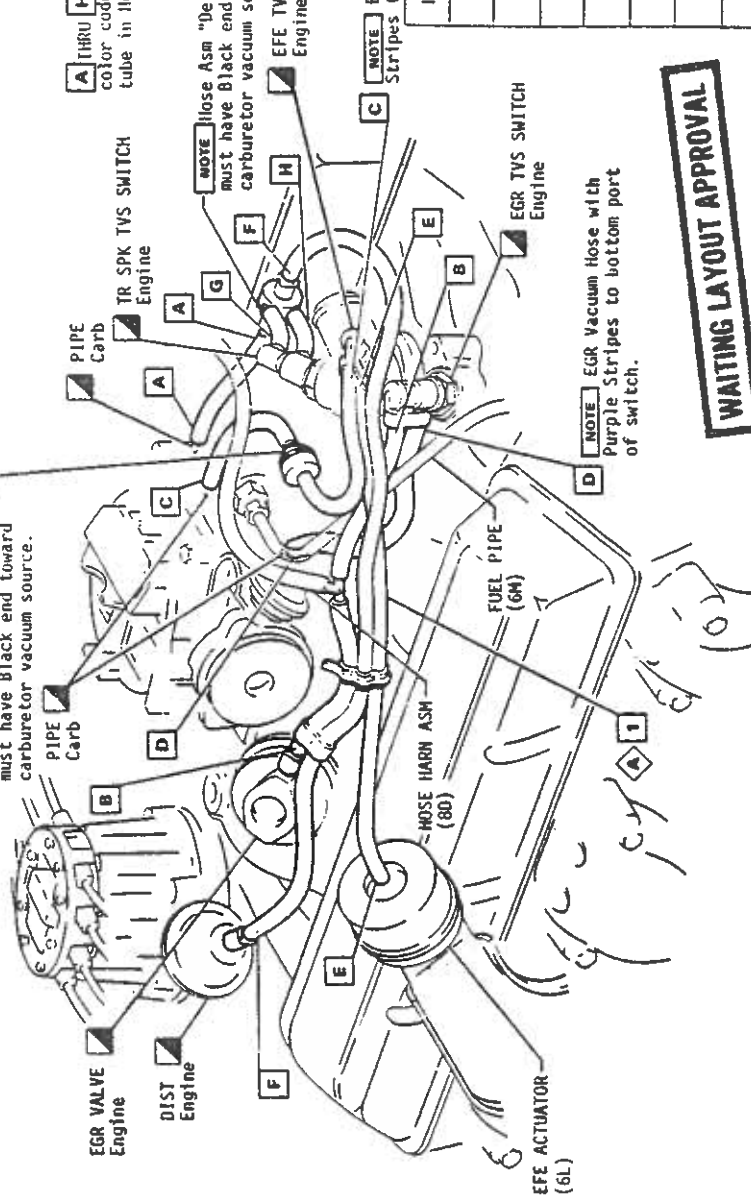
A G H C E F H

NOTE Hose Asm "Check Valve" must have Black end toward carburetor vacuum source.

NOTE Hose Asm "Delay Valve" must have Black end toward carburetor vacuum source.

NOTE EGR Vacuum Hose with Yellow Stripes to top port of switch.

NOTE EGR Vacuum Hose with Purple Stripes to bottom port of switch.



HOSE	COLOR
A	Lt. Blue Solid Stripe
B	Orange Solid Stripe
C	Yellow Solid Stripe
D	Purple Solid Stripe
E	White Solid Stripe
F	Lt. Green Solid Stripe
G	Lt. Brown Dashed Stripe
H	Red Solid Stripe

WAITING LAYOUT APPROVAL

1981 CHEV. "F" 14020867

CHEVROLET

EMISSION HOSES
FA00 8LG4 & MWG

TIME
1 (NS)

UPC
6Y

SHEET
13

DATE	SYN	REVISION	DATE	BY	CHK	APP	DATE	BY	CHK	APP
1/28/80	1	"MMG" WAS "MMS"	1/28/80	DR						

FULLY DRIVEN, SEATED & HOT STRIPPED

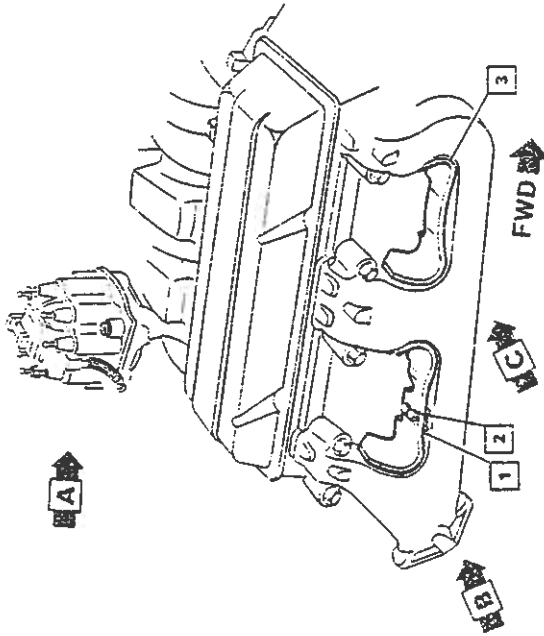
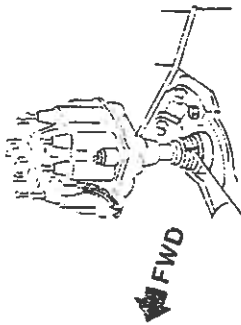


General Motors Corporation
CHEVROLET MOTOR DIVISION

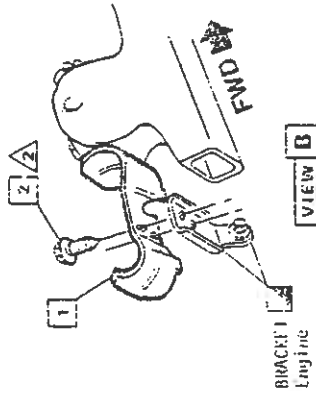
PRODUCT DESCRIPTION MANUAL

NEW MATERIAL PROCESS MATERIAL TORQUE EXISTING AS PART OF

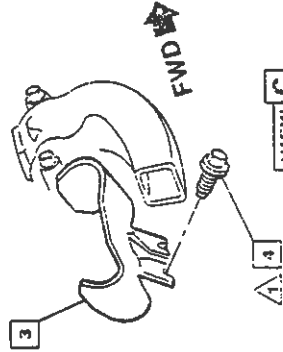
- 14017879 1 SHIELD
- 11502833 2 BOLT/SCREW
- 450628 3 SHIELD
- 9411878 4 BOLT/SCREW



VIEW A



VIEW B



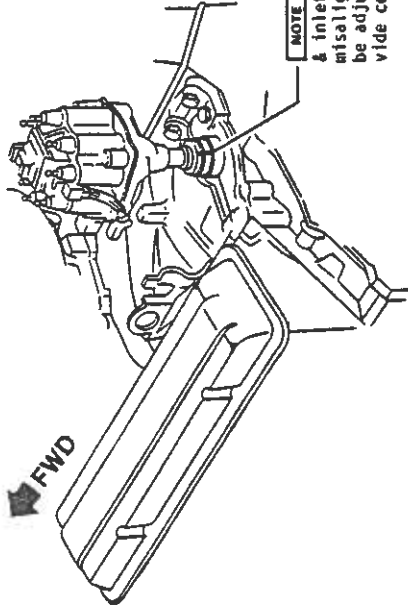
VIEW C

DATE	SYN	REVISION	AUTH	DE	DATE	BY	DIV	FIG	1981 CHEV. "F" 14020867
7/20/80	1	(GAC 208) APPROVED	7-222		08-11-80	DR. A. TAYLOR	CHEVROLET		SPARK PLUS SHIELDS RIGHT SIDE (1)
	2	VMS 1150 36-7-1 15-1 26-AC-1	1-10-80			(K. A. ...)	REF ECR 8644B		AUG ALL '88 ENGINE
						APPL S	C/O 174P80		
						APPL	1-00190 (S)		6Y
						APPL	6Y-19		14
320									
FULLY DRAWN, SEATED & NOT STEREOID									
<input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> Co									

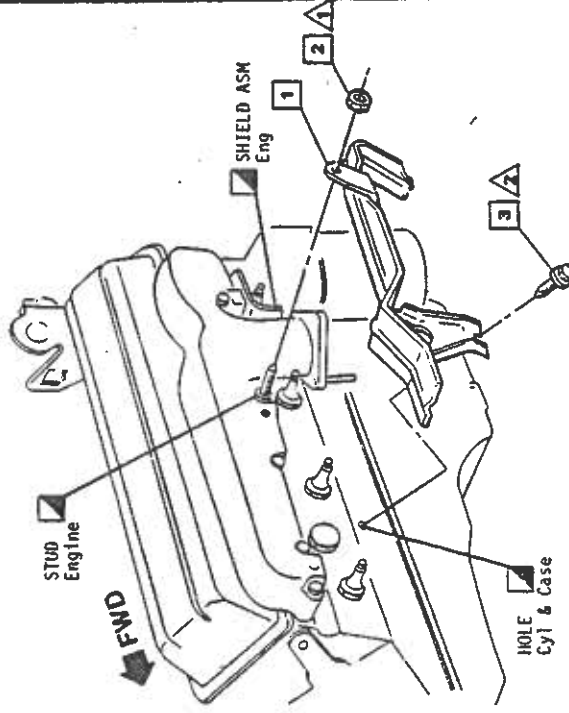
General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL
 ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 1 14017722 SHIELD ASM
- 2 9418931 NUT
- 3 9431878 BOLT/SCREW



NOTE Alignment marks on distributor & inlet manifold must be checked. If misaligned or missing, distributor must be adjusted using a timing light to provide correct initial timing within $\pm 1^\circ$.



1981 CHEV. "F" 14020867			CHEVROLET			R1. ECR 86448 NEW 14FE80			1. 15440 (S) 2. 00190 (S)			6Y			15		
TITLE SPARK PLUG SHIELDS LEFT SIDE FAOU ALL V8 ENGINE			DIV			DATE 23FE80			DR R. TAYLOR			APP S			APP S		
APP S			APP S			APP S			APP S			APP S			APP S		
321			AMIN			OR			CE			ICE			DATE		
FULLY OBTAIN, SEALED & NOT STRIPPED			DATE			SUN			REVISION			DATE			SUN		
2-2-3.4			DATE			SUN			REVISION			DATE			SUN		
4.0-5.5			DATE			SUN			REVISION			DATE			SUN		
4.0-5.5			DATE			SUN			REVISION			DATE			SUN		
4.0-5.5			DATE			SUN			REVISION			DATE			SUN		
4.0-5.5			DATE			SUN			REVISION			DATE			SUN		

0 0 0 P Co

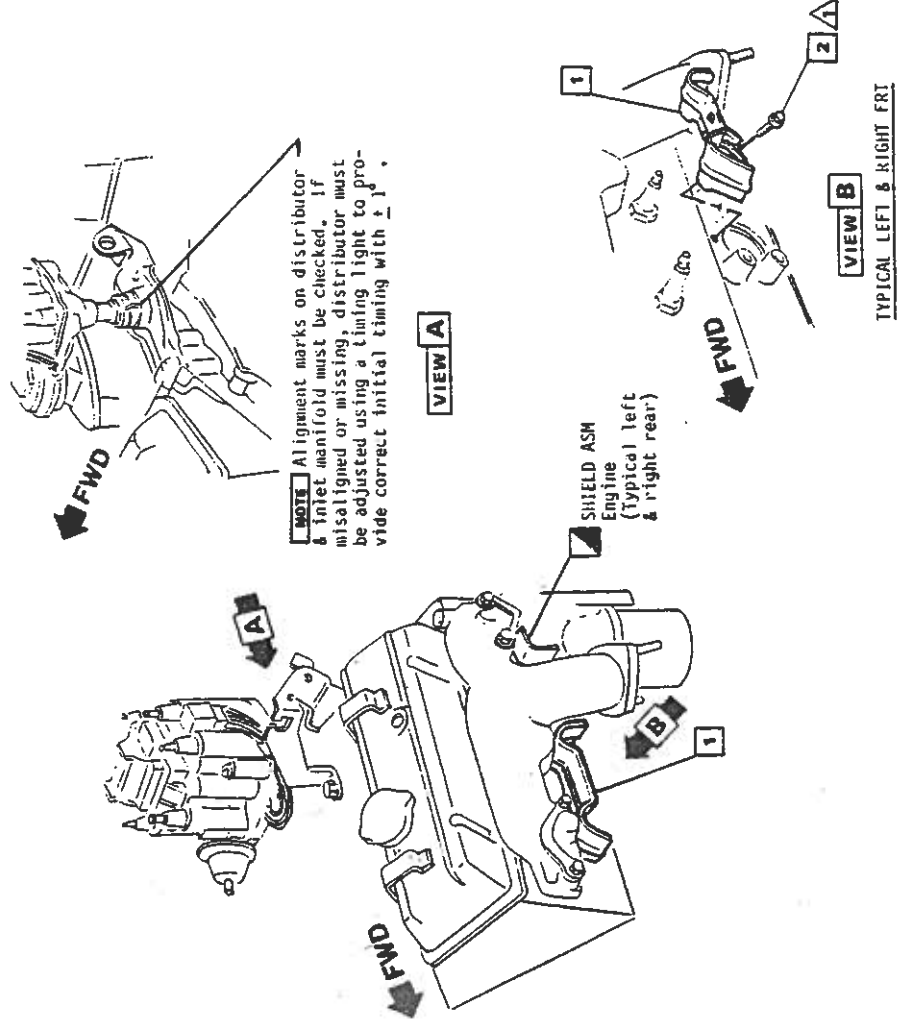
PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE
 PROCESS MATERIAL
 TORQUE
 EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION



- 462683 SH-ELD
 9431878 BOL T/SCREW



WAITING LAYOUT APPROVAL

1981 CHEV. "F" 14020867 TITLE: SPARK PLUG SHIELDS FA00 & LC3		DIV: CHEVROLET REF: 8G44B C/O 16JABO 6Y-20		SHEET: 16	
DATE: 14-FESD	BY: R. TAYLOR	CHK: R. Taylor	APPR: NS	APPR: NS	APPR: NS
REVISION 4.0-6.5					
322					
DATE	SYN	DRAWING NO.	REV.	DATE	BY
FULLY DRIVEN, SEATED & HOT STOPPED					
1 0 0 0 0 0					

PRODUCT DESCRIPTION MANUAL

EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION

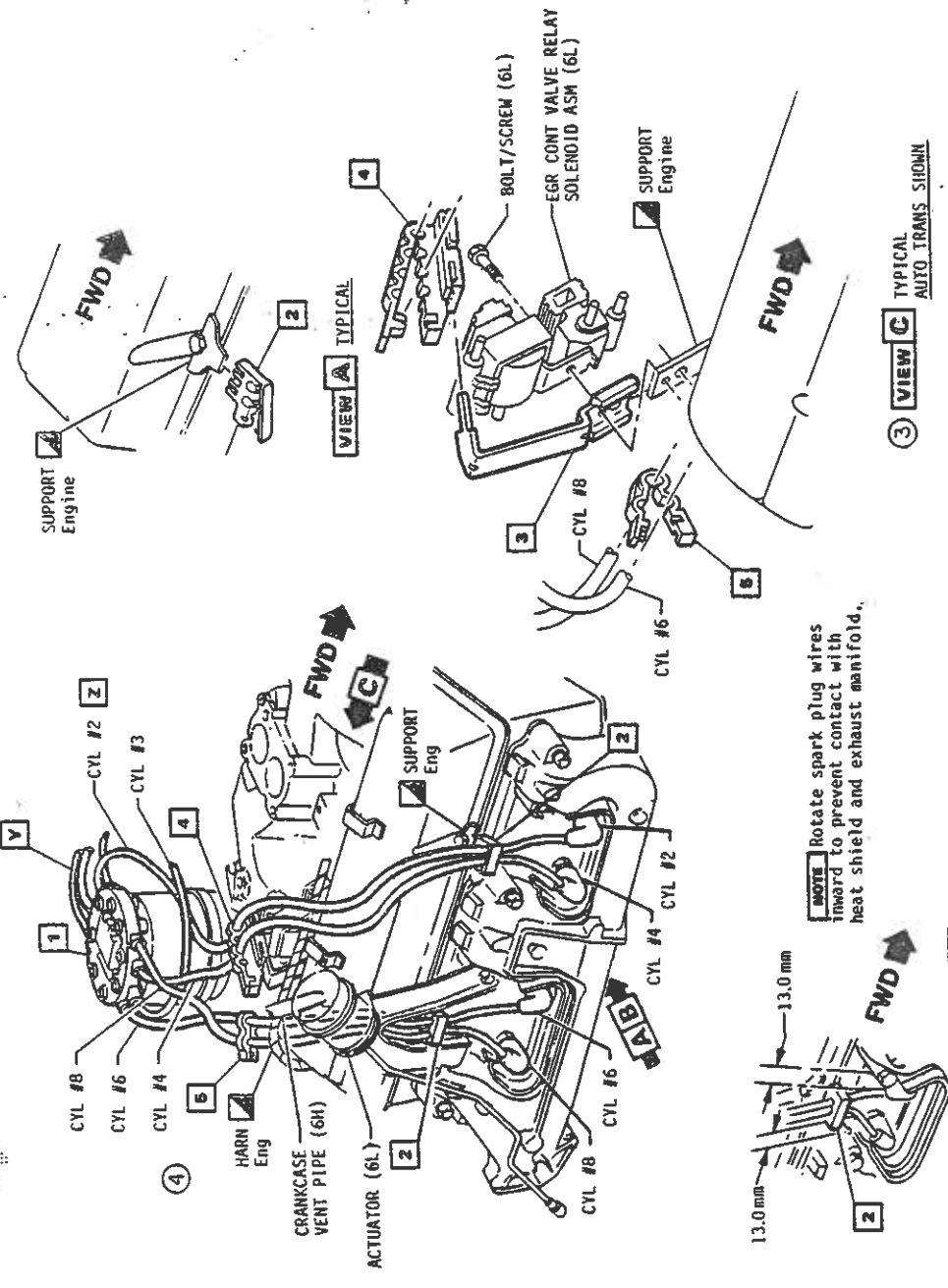


- 1 12016203 HARNESS ASM
- 2 372539 RETAINER
- 3 14044601 SUPPORT
- 4 500014 RETAINER
- 5 499457 RETAINER

NOTE Position spark plug wire nipples #1 & #8 to provide 6.35 min clearance to Air Cleaner.

WAITING LAYOUT APPROVAL

- 1 For remainder of routing to left side see SPARK PLUG WIRE ROUTING LEFT SIDE (6Y).
- 2 Take slack out of #2 wire at Retainer #2 to make wire nest against front of distributor.



1981 CHEV. "F" 14020867		DIV	
TITLE		CHEVROLET	
SPARK PLUG WIRE ROUTING RIGHT SIDE		REF ECR B6448	
FA00 & ALL V8 ENGINE & HD1		NEW 21MR80	
SHEET 17		UPC 6Y	
DATE	SYN	REVISION	BY
27JAN81	1	WAS 372540 RETAINER	ON R TAYLOR
	2	ITEM 5 ADDED	CR C... NS J
	3	VIEW "C" REV.	APR NS J
	4	"SPARK PLUG" DRAWING REV.	APR
	5	"#1 #8" ADDED	APR
	6	WAS 14033061 SUPPORT	APR
DYNAMIC (last of) HAND (last of) #m		323	
FULLY BUSHED, SEALED & HOT STRIPPED			



General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

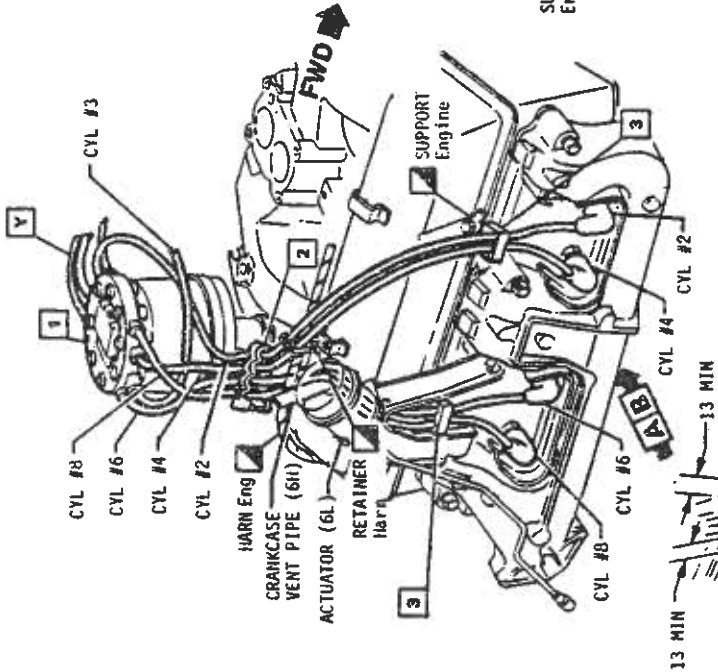
ITEM IDENTIFICATION SYSTEM

- | | | |
|----------|----------|-----------------------|
| 12005623 | 1 | HARNES ASM & LMI |
| 12005624 | 1 | & LG4 or L39 |
| 367111 | 2 | RETAINER |
| 372539 | 3 | RETAINER & LG4 or L39 |
| 372540 | 3 | & LMI |

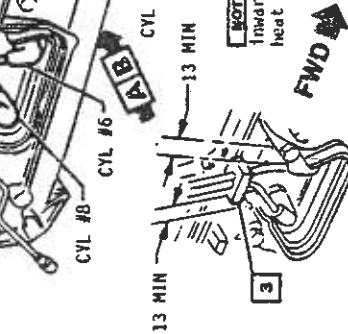
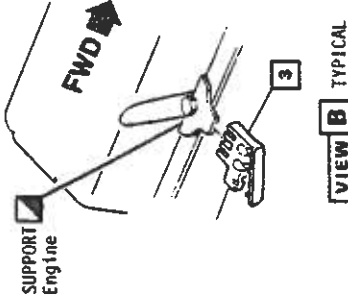
NOTE Position spark plug wire nipples #1 & #8 to provide 6.35 min clearance to Air Cleaner.

WAITING LAYOUT APPROVAL

- Y** For remainder of routing to left side see SPARK PLUG WIRE ROUTING LEFT SIDE (6V).
- Z** Take slack out of #2 wire at Retainer #2 to make wire nest against front of distributor.



NOTE Rotate spark plug wires inward to prevent contact with heat shield and exhaust manifold.



DATE	SYM	REVISION	AUTH	DE	CE	DES	DATE	DIV	TITLE
							DE R. TAYLOR/KU	CHEVROLET	1981 CHEV. "F" 14020867
							APP MS	88 ECR 86448	SPARK PLUG WIRE ROUTING RIGHT SIDE
							APP	C/O 204080	FAOO & ALL V8 ENGINE & W44
							APP	6Y-21	IPC
		324						6Y	17.1
									SNET

JULY DRIVER, SEALED & NOT STRIPPED
 A
 B
 C
 D
 E
 F
 G

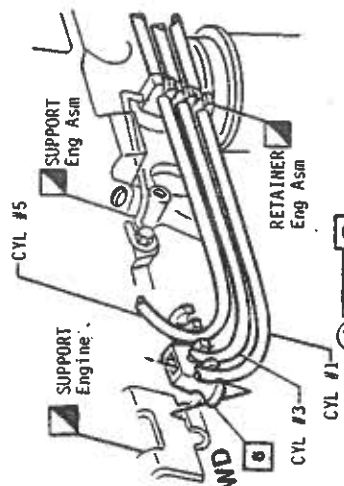
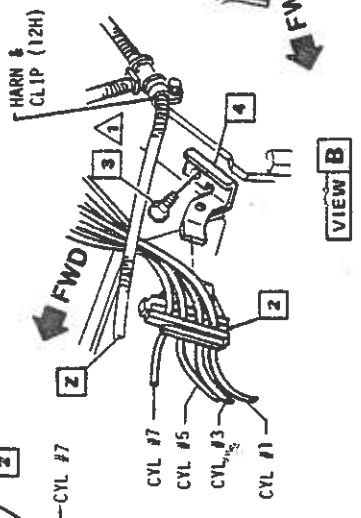
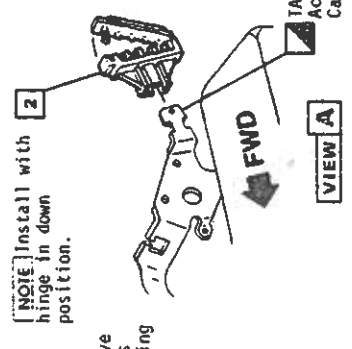
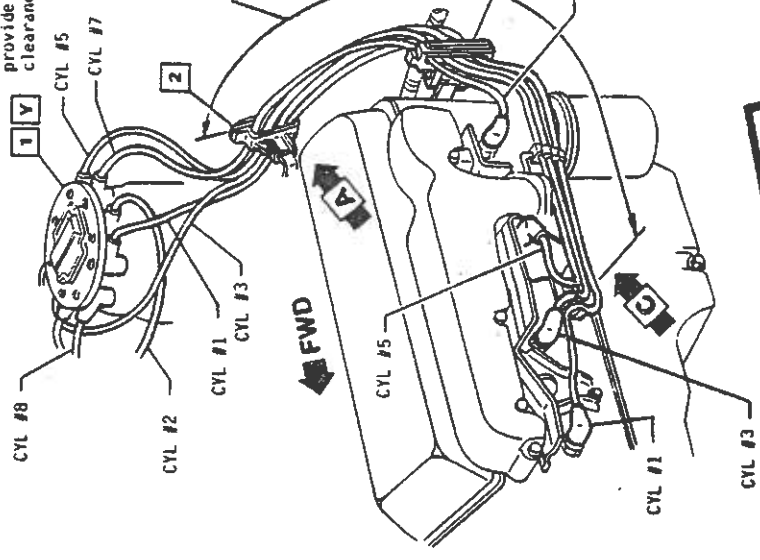
PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

EXISTING AS PART OF

- ① 12016203 HARNESS ASM
- ② 372540 RETAINER
- ③ 274430 BOLT/SCREW
- ④ 14007361 SUPPORT
- ⑤ 357125 RETAINER
- ⑥ 8917420 OPT

[NOTE] Position spark plug wire nipples #1 & #8 to provide 6.4 in. clearance to Air Cleaner.



- ① For remainder of routing to right side, see "Spark Plug Wire Routing, Right Side" Sheet.
- ② Route Spark Plug Wires in front of Eng Wire Harn; as shown.

WAITING LAYOUT APPROVAL

DATE	SYM	REVISION	DATE	BY	DIV	TITLE
03/30/80	1	4-AS 12005624 HARV	14 FEB 80	DR R TAYLOR		1981 CHEV. "F" 14020867
	2	891154 RETAINER REM		G Richard G. R		SPARK PLUG WIRE ROUTING LEFT SIDE
	3	WIRE NOTE REVISED		C APP NS		FACD & ALL V8 ENGINE & M1
	4	VIEW "B" REVISED		C APP NS		
	5	4-AS "TLG" 8/82		C APP		
				C APP		
				C APP		
				C APP		
				C APP		

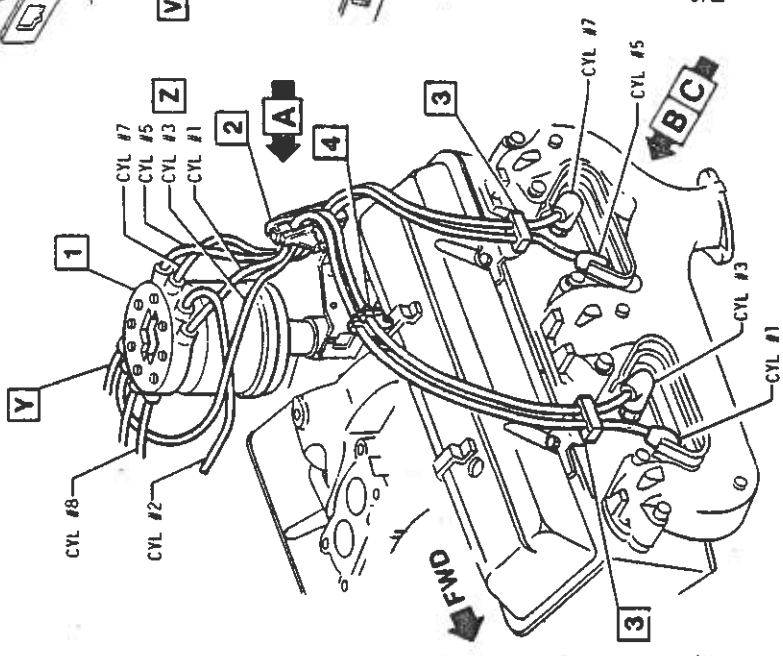
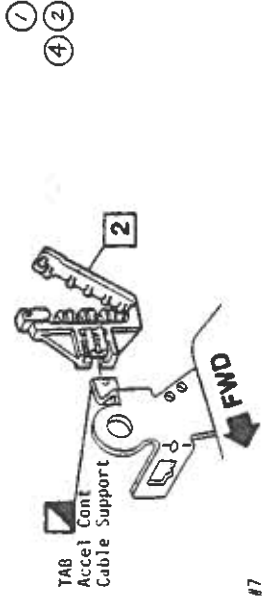
FULLY DRIVEN, SEALED & NOT STAMPED <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	DIVISION CHEVROLET	PART NO. 86448	QUANTITY 18	UNIT SHEET
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PRODUCT DESCRIPTION MANUAL
 ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

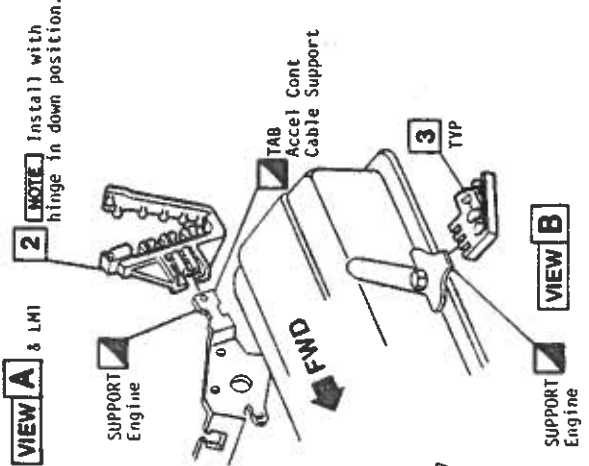
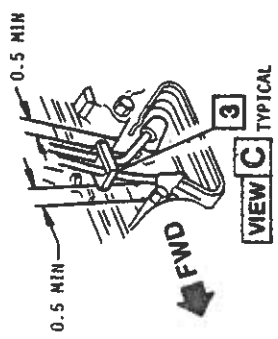
General Motors Corporation
CHEVROLET MOTOR DIVISION



①	12005623	1	HARNISS ASH
②	372540	1	RETAINER
③	372539	2	RETAINER
④	8911952	3	RETAINER
④	8911953	4	OPT



- Y** For remainder of routing to RT side see SPARK PLUG WIRE ROUTING RIGHT SIDE (6Y).
- Z** Take slack out of #3 wire at Retainer #2 to make wire nest against front of distributor.
- NOTE:** Rotate spark plug wires inward to prevent contact with heat shield and exhaust manifold.



DATE	SWN	REVISION	AUTH	BR	CK	DATE	BY	DIV	1981 CHEV. "F" 14020867
055680	1	12005623 WAS 22076203				04	R C TAYLOR	CHEVROLET	SPARK PLUG WIRE ROUTING LEFT SIDE
	2	12005624 HARNY ADDED	89198	CURR		APR	5	ECR 86448	FAOD & LM: 8MM ⑤ ⑤
	3	WAS "VB" ENG (CYL #82)"				APR		C/O 14MV80	
14 NOV80	4	12005624 HARN REM	89194	CURR		APR		6Y-23	
	5	"& LM" WAS ALL VB ENG				APR			
									05907 (S) OPT
									6Y
									SHEET
									19

326

△ FULLY DRIVEN, SEALED & NOT STRIPPED

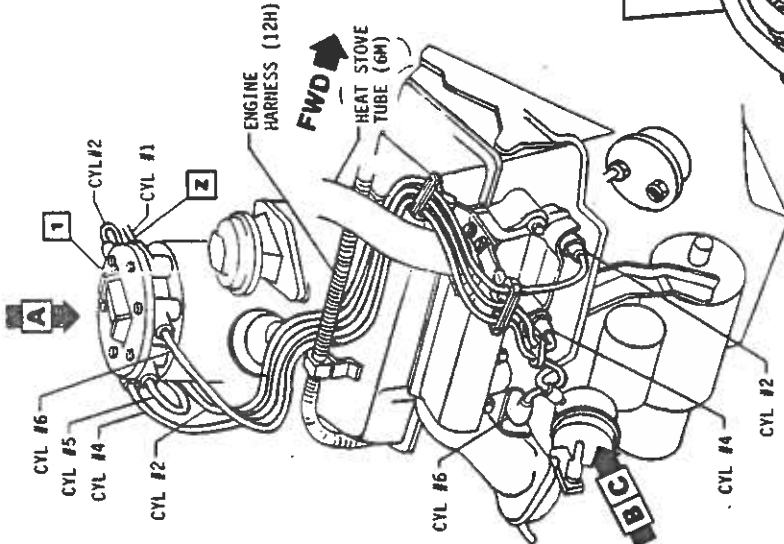
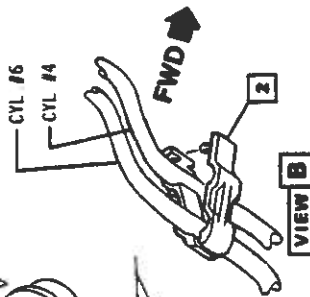
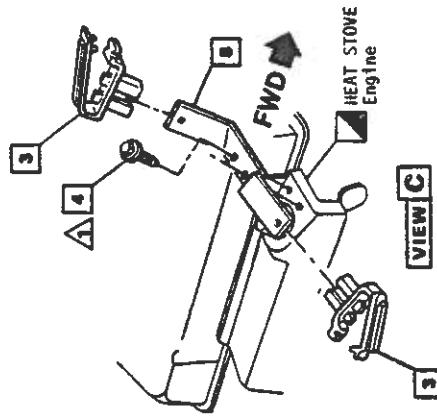
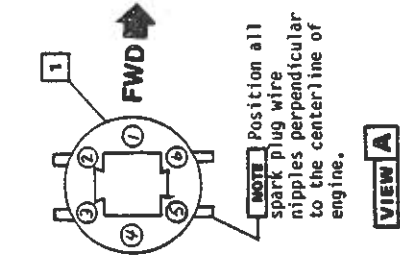
PRODUCT DESCRIPTION MANUAL

EXISTING AS PART OF

ITEM REFERENCE PROCESS MATERIAL TORQUE

- 12005790 HARNESS ASM
- 499457 RETAINER
- 469513 RETAINER
- 11502833 BOLT/SCREW
- 14017741 SUPPORT

② ①



Z For remainder of routing to left side, see "Spark Plug Wire Routing, Left Side" sheet.

1981 CHEV. "F" 14020867		DATE 14 FEB 80		BY R. TAYLOR	
TITLE SPARK PLUG WIRE ROUTING RIGHT SIDE		AUTN DE CU KB		9398 CU RB	
FADO & LCB		9398 CU RB		9398 CU RB	
CHEVROLET		MFR MS		MFR MS	
REF ECR 86448		MFR		MFR	
C/O 16JABO		MFR		MFR	
6Y-24		MFR		MFR	
1-(NS)		MFR		MFR	
6Y		MFR		MFR	
20		MFR		MFR	
SHEET		MFR		MFR	

PURELY DRAWN, SEALED & NOT STAMPED

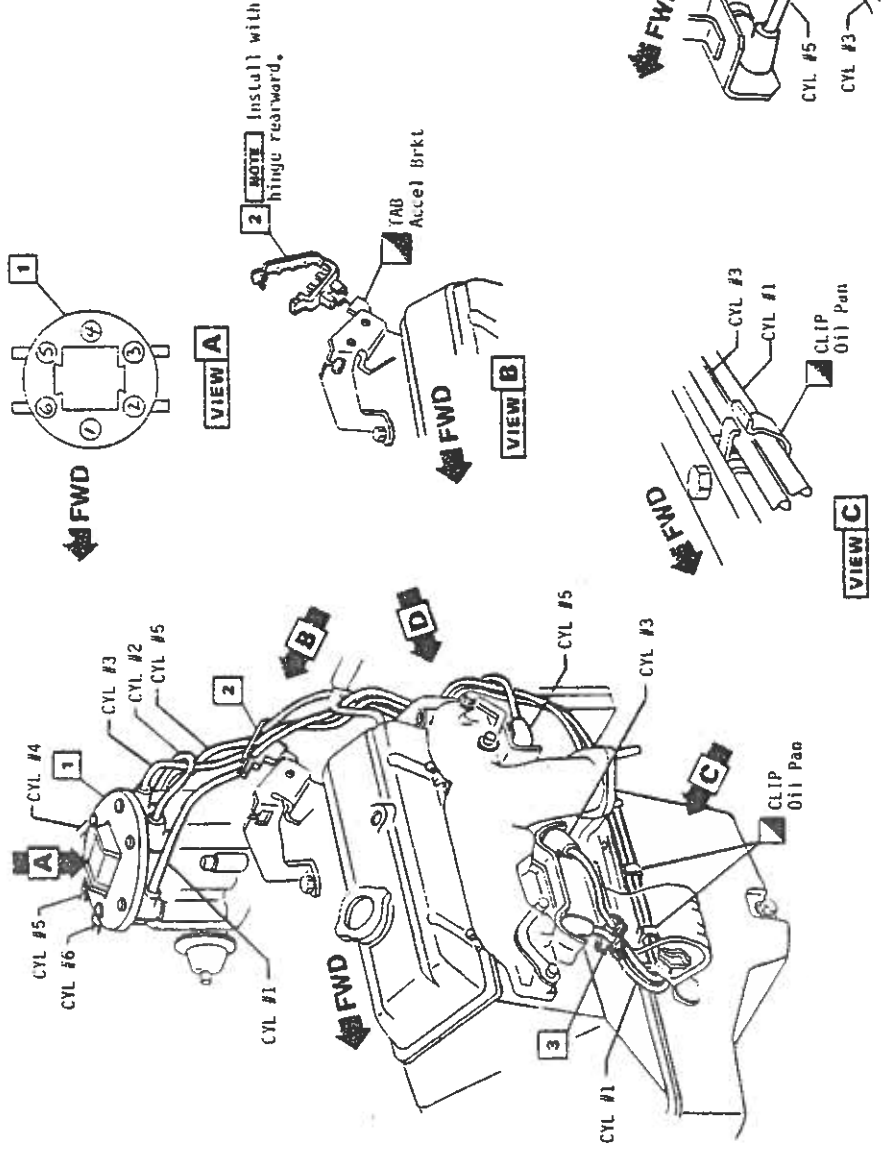
6 0 0 1 0 0

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION

12005790	1	HARNES ASM
469513	2	RETAINER
499457	3	RETAINER
14007361	4	SUPPORT
9419051	5	BOLT/SCREW



DATE	SYN	REVISION	DATE	APPROV	DIV	DWG NO
27-40			14/F/80	DI R. TAYLOR	CHEVROLET	14020867
				CD R. Taylor		
				APPR S		
				APPR		
				APPR		
				APPR		
		328				
FULLY DRYEN, SEALED & NOT STRIPPED						
TITLE: SPARK PLUG WIRE ROUTING LEFT SIDE FA00 & LC3						
REF ECR 86448 C/O 16J480 6V-25						
						UPC
						16034 (S)
						SHEET
						6Y
						21

PONTIAC MOTOR DIVISION
Pontiac, Michigan
General Motors Corporation

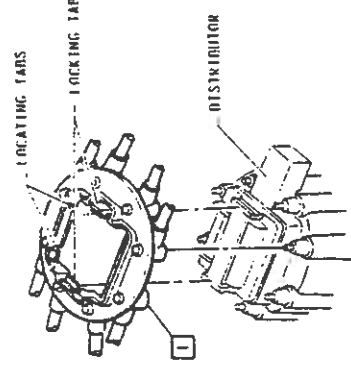
PRODUCT DESCRIPTION MANUAL
EXISTING AS PART OF

- ITEM REFERENCE
- PROCESS MATERIAL
- ORIGINAL
- EXISTING AS PART OF

CAUTION

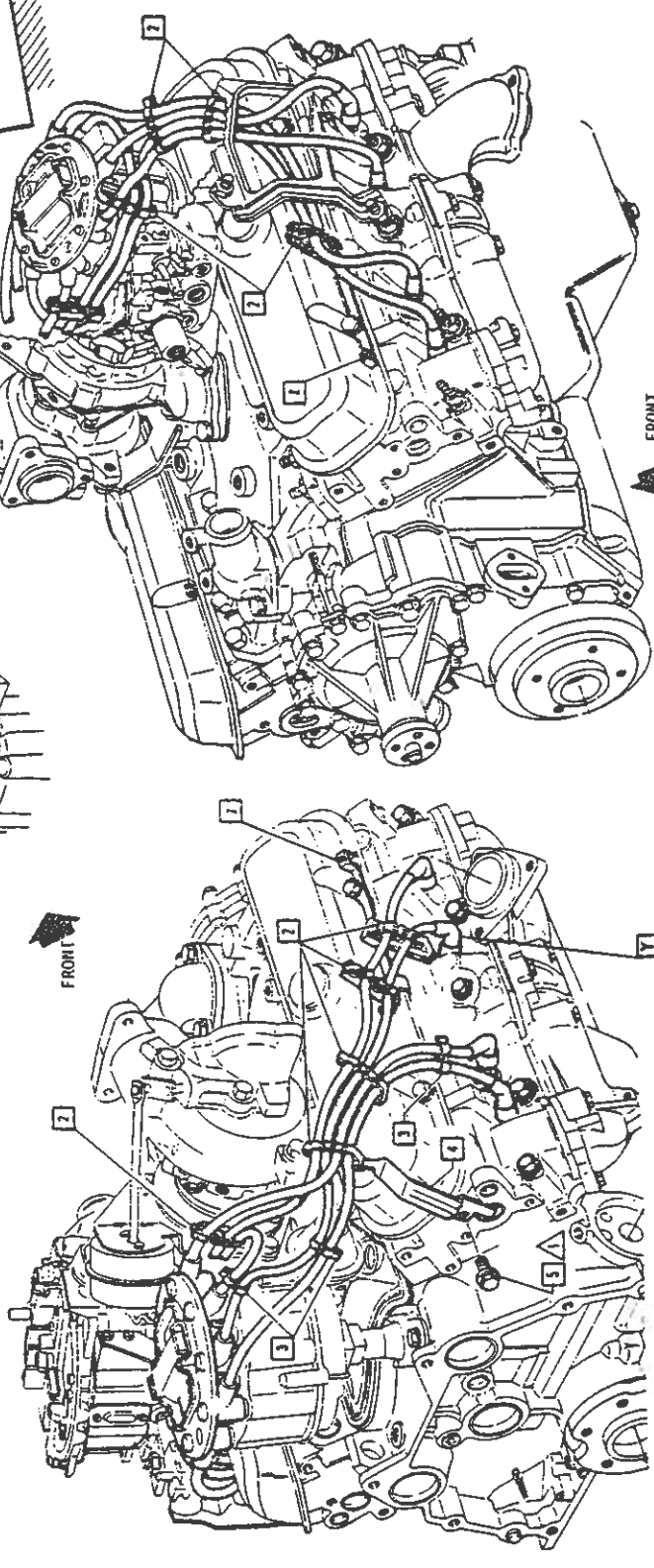
SPARK PLUG WIRE TO BE ROUTED TO AVOID CONTACT OR RUB AGAINST EACH OTHER OR SOME OBJECT WHEREVER POSSIBLE.

THE WHITE PAINT STRIPE ON LOCKING TAB SHOULD NOT BE SEEN WHEN LOCKING TAB IS PROPERLY SEATED



- 1 RY4 HARNESS ASM
- 2 RY4 RETAINER
- 3 RY4 RETAINER
- 4 RY4 BRACKET
- 5 RY4 BOLT
- 6 INSTALL SPARK PLUG WIRES ON SPARK PLUGS IN A VERTICAL POSITION
- 7 SEE SHEET 15 FOR SPARK PLUG WIRE LOCKING RETAINER MOUNTING BRACKETS TO ROCKER ARM COVERS

CANCELED



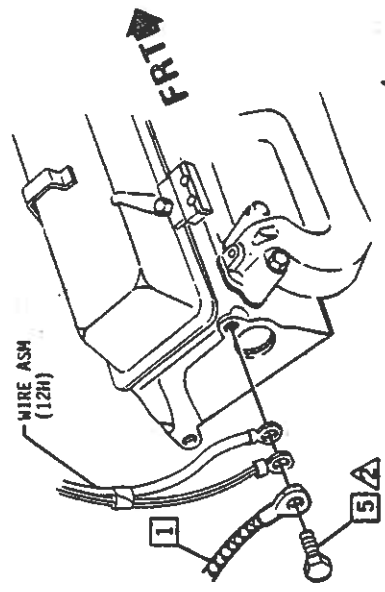
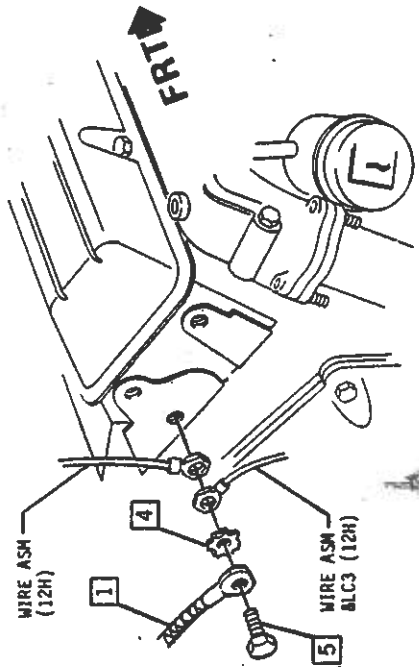
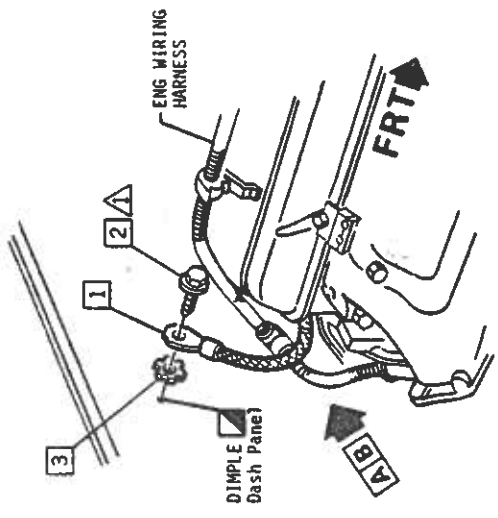
DYNAMIC (date) or HARD (loop)		#	DATE	SYM	REVISION	APPROV	BY	DATE	BY	TITLE	SHEET
1		1	7/20/80		ISSUED			25-0C-79		1981 CHEV. "F" 14020867	23
2		1	7/20/80		SHEET CANCELED			08-G-M-VENSTRALTE		SPARK PLUG WIRE ROUTING	6Y
3		1						RE JES		FA00 & LUB	
4		1						APPL S			
5		1						APPL			
6		1						APPL			
7		1						APPL			
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100		1						APPL			

FOR REFS. W-70 6000

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 1 STRAP ASM
- 2 BOLT/SCREW
- 3 WASHER
- 4 WASHER (CANADA ONLY)
- 5 BOLT/SCREW



VIEW A

VIEW B

DATE	REV	BY	CHK	DATE	BY	CHK	DATE	BY	CHK	DATE	BY	CHK	DATE	BY	CHK
12/5/80	1			14 FEB 80											
22/80	2														
	3														
	4														

1.2-1.6	REVISION														
26-40	2 REDRAWN & REDESIGNED (PC-C033)														
	3 WAS 18016 BOLT/SCREW														
	4 VIEW "B" REV														

1981 CHEV. "F" 14020867			
CHEVROLET			
ECR 86448			
C/0 29JAB0			
6Y-27			
ENGINE GROUND STRAP			
FA00 & ALL ENGINE			
1-14560 (S)			
6Y			
24			

FULLY DRIVEN, SEATED & HOT STRINGS



General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM NUMBER PROCESS MATERIAL TORQUE EXISTING AS PART OF

BELT TENSION (LBS/INCH)

ENGINE	TENSIONING	GENERATOR	POWER STEERING	AIR COND.	A. T. R. PUMP
①					
LD5	MAXIMUM INITIAL INSTALLATION MINIMUM AFTER CHASSIS ROLLS*	650 300	750 400	750 400	350 200
LC3	MAXIMUM INITIAL INSTALLATION MINIMUM AFTER CHASSIS ROLLS*	650 300	650 300	750 400	+ +
L39	MAXIMUM INITIAL INSTALLATION MINIMUM AFTER CHASSIS ROLLS*	650 300	650 300	750 400	+ +
LG4	MAXIMUM INITIAL INSTALLATION MINIMUM AFTER CHASSIS ROLLS*	650 300	650 300	750 400	+ +
LMI	MAXIMUM INITIAL INSTALLATION MINIMUM AFTER CHASSIS ROLLS*	650 300	650 300	750 400	+ +

*Tension to be checked within 15 minutes after vehicle has completed chassis rolls test.

For belts driving more than one adjustable accessory, use highest tension specified.

CAUTION Any tensioning of replacement belts, or re-tensioning of previously installed but worn belts, must adhere to the above specifications (maximums prior to engine operation and minimums after engine operation). Any re-tensioning of previously run belts must be set to the "after chassis rolls" specifications - 0-150 newtons.

Belt tensions are to be measured with a Borroughs Gage BI-33-95 ACIM.

At no time should belt exceed maximum initial installation tension.

WAITING LAYOUT APPROVAL

DYNAMIC (PASSIVE) HAND (TOP) N°	DATE	STN	REVISOR	REVISION	DATE	BY	DIV	1981 CHEV. "F" 14020867	THIS	BILT TERSTONING FA00 ALL	SHEET	1
	DATE	STN	REVISOR	REVISION	DATE	BY						
<input checked="" type="checkbox"/>	01/28/80	1		"LUB" REMOVED	01/28/80	DE R. I. IND/NFR	CHEVROLET					
<input checked="" type="checkbox"/>						APP. N. S.	CHEVROLET					
<input checked="" type="checkbox"/>						APP. N. S.	CHEVROLET					
<input checked="" type="checkbox"/>						APP. N. S.	CHEVROLET					
<input checked="" type="checkbox"/>						APP. N. S.	CHEVROLET					
<input checked="" type="checkbox"/>						APP. N. S.	CHEVROLET					
<input checked="" type="checkbox"/> FULLY DRIVEN, SLATED & NOT STOPPED												
332												
TIT ECR 86488 C/O 10JA80 6Z-1												
6Z												

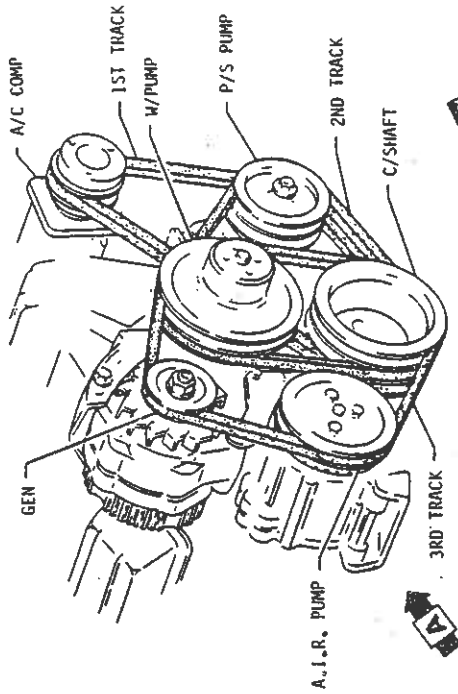
1 2 3 4



General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF



FRONT FACE OF ENGINE

DESIGN POSITION + ALLOWABLE VARIATION (SEE CHART)

TYPICAL BELT TRACK ϕ TO FRONT OF CASE

Crankshaft Pulley	.05
Water Pump Pulley	.03
Generator Pulley	.06
Power Steering Pump Pulley	.13
A/C Compressor Pulley	.04
A.I.R. Pump Pulley	.07

Allowable variation, pulley to pulley, is determined by adding above tolerances together. For example: allowable variation of water pump to generator pulley on V8 engine is .03 + .06 or + .09. Tolerances are intended as a general indication of component part quality.

WAITING LAYOUT APPROVAL

DYNAMIC (test only)	HAZ	PROP	DATE	SYM	REVISION	DATE	BY	CHK	APP	DATE	BY	CHK	APP	DATE	BY	CHK	APP	
							DIR. LINDNER											
							(C) <i>Quinn, V. J. 7/21</i>											
							APPR N/S											
							APPR											
							APPR											
							APPR											
<p>1981 CHEV. "F" 14020867</p> <p>TITLE: PULLEY ALIGNMENT</p> <p>PROJ: F800 ALL</p> <p>DWG NO: ECR 86448</p> <p>C/O: 18J480</p> <p>REV: 6Z</p> <p>SHEET: 2</p>												<p>333</p>						

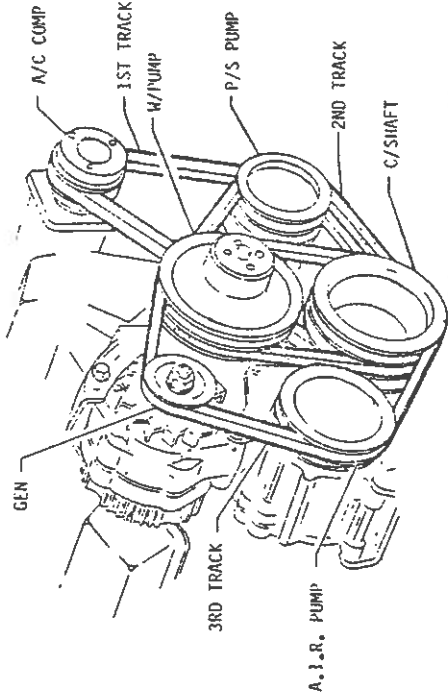
△ FULLY DRIVEN, SEATED & NOT STOPPED

(h) 1 0 0 0 0

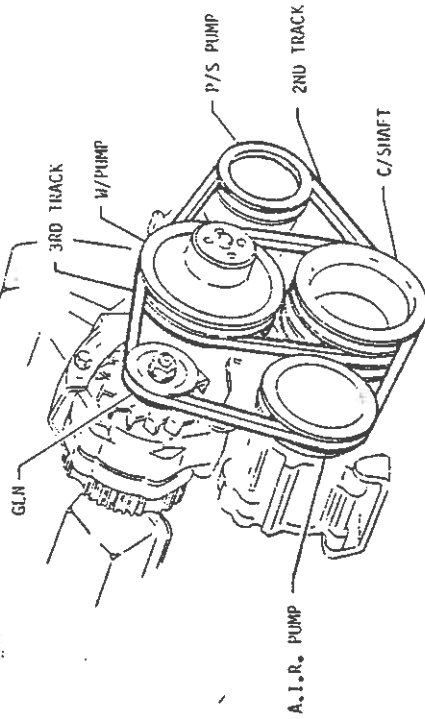
PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL FORQUIP TRISTING AS PART OF

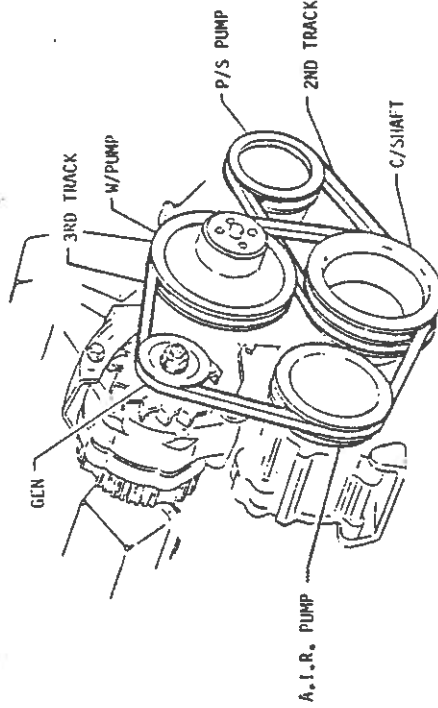
General Motors Corporation
CHEVROLET MOTOR DIVISION



& C60



& K73 or K81



BASE

WAITING LAYOUT APPROVAL

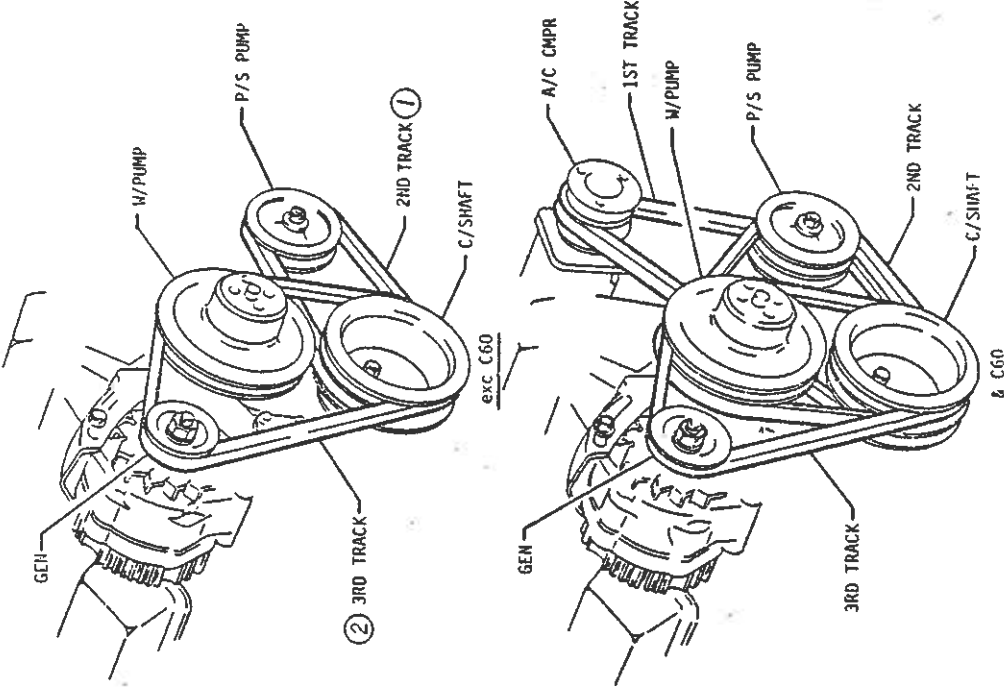
DYNAMIC (Install) / HAND (Imp.) - New	DATE	SIN	REVISION	DATE		CHK	APPR	DIV	TITLE	SHEET
△	030680	1	7.13.80 ADDED	07/28/80	DR R. LINDNER			CHEVROLET	1981 CHEV. "F" 14020867	4
△									PULLEY & BELT MOUNTING FA00 8L64/LH1/L39/LC3 (1)	
△										
△										
△										
△										
△										
△										
FIRTY GREYW SCATTER & NOT STRIPPED										
335										
EGR 86448 C/O 180A80 62-4										
6Z										
UPC										



General Motors Corporation
CHEVROLET MOTOR DIVISION

PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE
 PROCESS MATERIAL
 TORQUE
 EXISTING AS PART OF



DYNAMIC (Classification)		DATE	SYN	REVISION		DATE	BY	DIV	TITLE	REF	WTC	SHEET
△	△	03/01/80	1	"2ND" WAS "1ST"		07/19/80	R. LINDNER	CHEVROLET	1981 CHEV. "F" 14020867	ECR 86448	6Z	4.1
△	△		2	"3RD" WAS "2ND"						NEW 29FE80		
△	△											
△	△											
△	△											
△	△											
BELT ROLLING FA00 ALGA or L39 & NH4 L-11532 (S)												

FULLY DRIVEN, SEATED & NOT STRIPPED
 C 0 0 P G

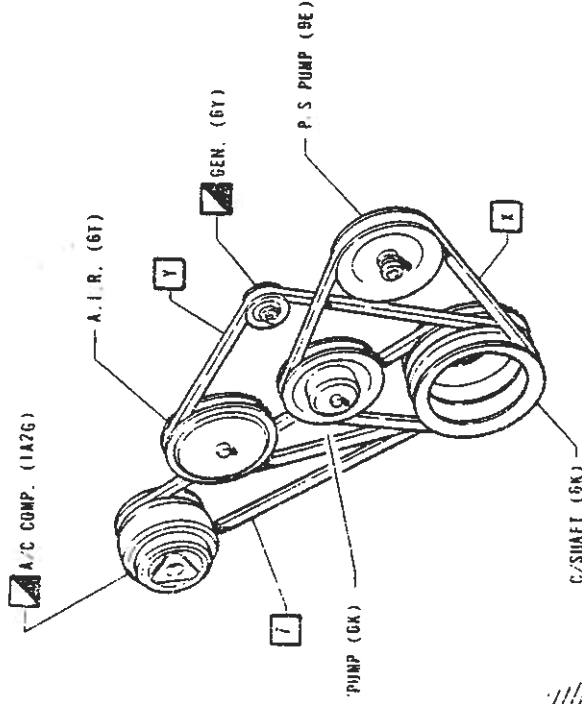
PONTIAC MOTOR DIVISION

General Motors Corporation

Pontiac, Michigan

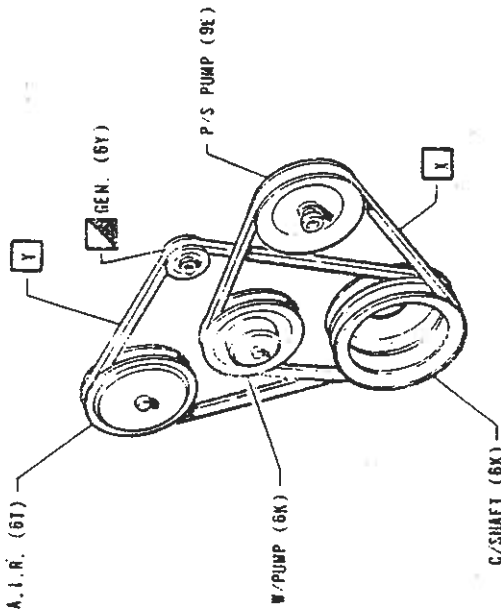
PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

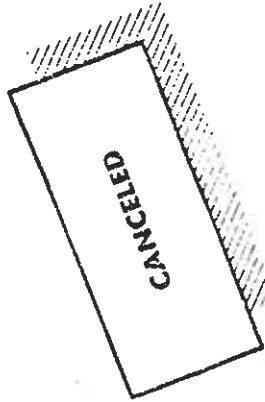


WITH G6 & N41

- 3RD TRACK
- 2ND TRACK
- 1ST TRACK



WITH G4 & N41

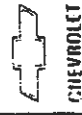


DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79
DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79
DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79
DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79	DATE: 25 OCT 79	REV: 1	REVISED: 2-2-79	REVISED: 2-2-79

1981 CHEV. "F" 14020867

1981 CHEV. "F" 14020867

PULLEY & BELT ROUTING



CHEVROLET

86448 C/O 14DE79 6Z-2 RL

2-L-7/562

6Z

6

338

TOOTH DRIVEN SEATED & NOT SEATED

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0000000000

0000000000

0000000000

1-800-4-A GMW-9000

PRODUCT DESCRIPTION MANUAL

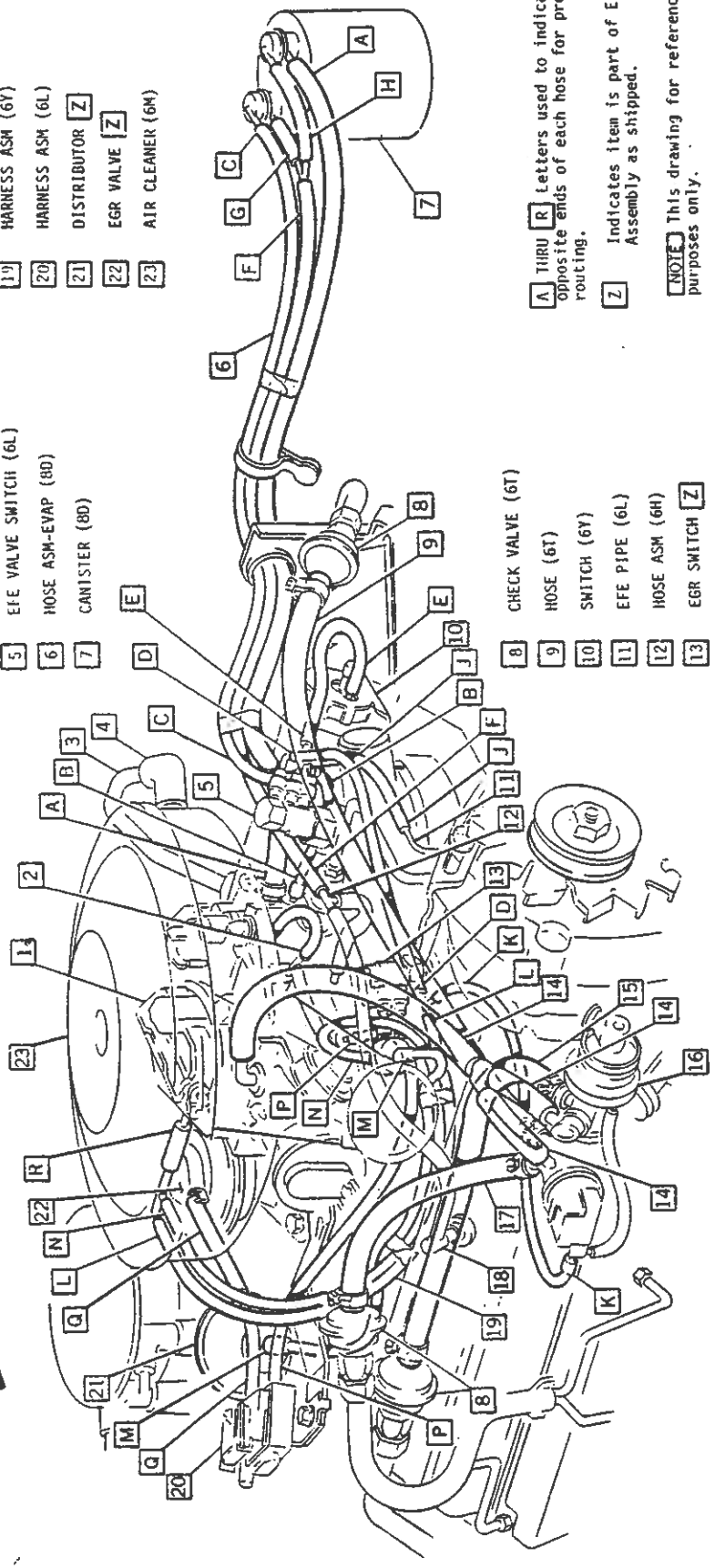
General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL EXISTING AS PART OF

WAITING LAYOUT APPROVAL

- 15 HOSE (6T)
- 16 A. I. R. CONTROL VALVE (6T)
- 17 HOSE (6T)
- 18 PCV VALVE (6M)
- 19 HARNESS ASM (6Y)
- 20 HARNESS ASM (6L)
- 21 DISTRIBUTOR (Z)
- 22 EGR VALVE (Z)
- 23 AIR CLEANER (6M)

- 1 CARBURETOR (6M)
- 2 AIR CLEANER HOSE (6M)
- 3 PIPE (6H)
- 4 HOSE (6H)
- 5 EFE VALVE SWITCH (6L)
- 6 HOSE ASM-EVAP (8D)
- 7 CANISTER (8D)



- 8 CHECK VALVE (6T)
- 9 HOSE (6T)
- 10 SWITCH (6Y)
- 11 EFE PIPE (6L)
- 12 HOSE ASM (6H)
- 13 EGR SWITCH (Z)
- 14 TUBE (6T)

A THRU **R** Letters used to indicate opposite ends of each hose for proper routing.

Z Indicates item is part of Engine Assembly as shipped.

NOTE This drawing for reference purposes only.

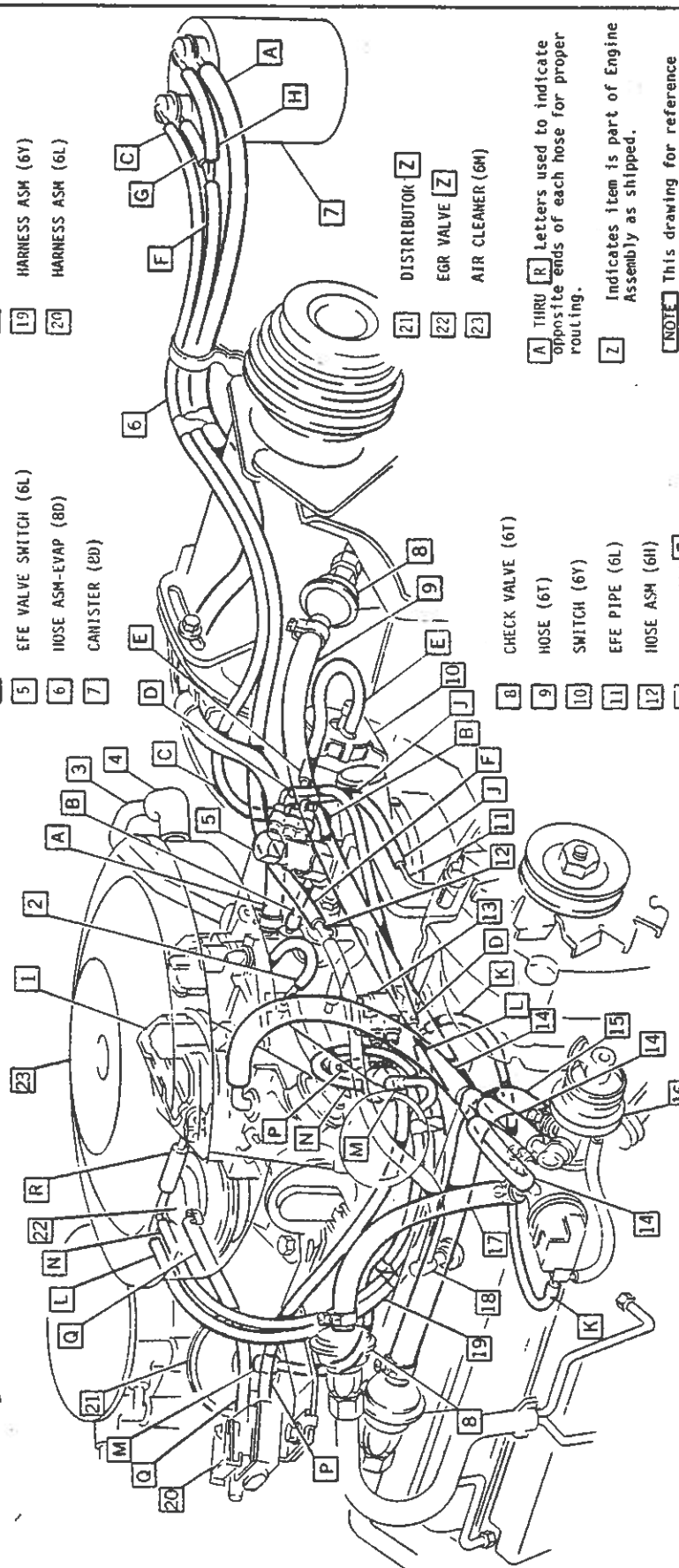
1981 CHEV. "F" 14020867			
		TITLE EMISSION CONTROLS FAO0 61C3 8M64 8C41	
REF ECR 86448 NEW 14AUB0		IPC 6Z	
DIV Z2AUB0		SHEET 7	
DR DR	CR CR	DATE DR	REV REV
DR DR		DATE DATE	
REVISION			
DATE			
SWM			
BAND (Insp)			
DATE			
FULLY ORDERED, SEALED & NOT STRIPPED			
339			
6Z			
7			



WAITING LAYOUT APPROVAL

- 1 CARBURETOR (6M)
- 2 AIR CLEANER HOSE (6M)
- 3 PIPE (6H)
- 4 HOSE (6H)
- 5 EFE VALVE SWITCH (6L)
- 6 HOSE ASM-EVAP (80)
- 7 CANISTER (8D)
- 8 CHECK VALVE (6T)
- 9 HOSE (6T)
- 10 SWITCH (6Y)
- 11 EFE PIPE (6L)
- 12 HOSE ASM (6H)
- 13 EGR SWITCH (Z)
- 14 TUBE (6T)
- 15 HOSE (6T)
- 16 A.I.R. CONTROL VALVE (6T)
- 17 HOSE (6T)
- 18 PCV VALVE (6H)
- 19 HARNESS ASM (6Y)
- 20 HARNESS ASM (6L)

- 21 DISTRIBUTOR (Z)
- 22 EGR VALVE (Z)
- 23 AIR CLEANER (6M)



A THRU **R** Letters used to indicate opposite ends of each hose for proper routing.

Z Indicates item is part of Engine Assembly as shipped.

[NOTE] This drawing for reference purposes only.

DYNAMIC (Insert) Wm		DATE	SYN	REVISION	DATE	REV	DATE	REV	DATE	REV	DATE	REV
▲												
▲												
▲												
▲												

AUTH		DATE	DIV	TITLE	
DR. LINDNER		22AUBO	CHEVROLET	1981 CHEV. "F" 14020867	
IN Richardson				EMISSION CONTROLS	
APPE				FA00 BLC3 BH64 BC60	
APPE				I - (MS)	
APPE				UPL	
APPE				6Z	
APPE				SHEET	
APPE				8	

340

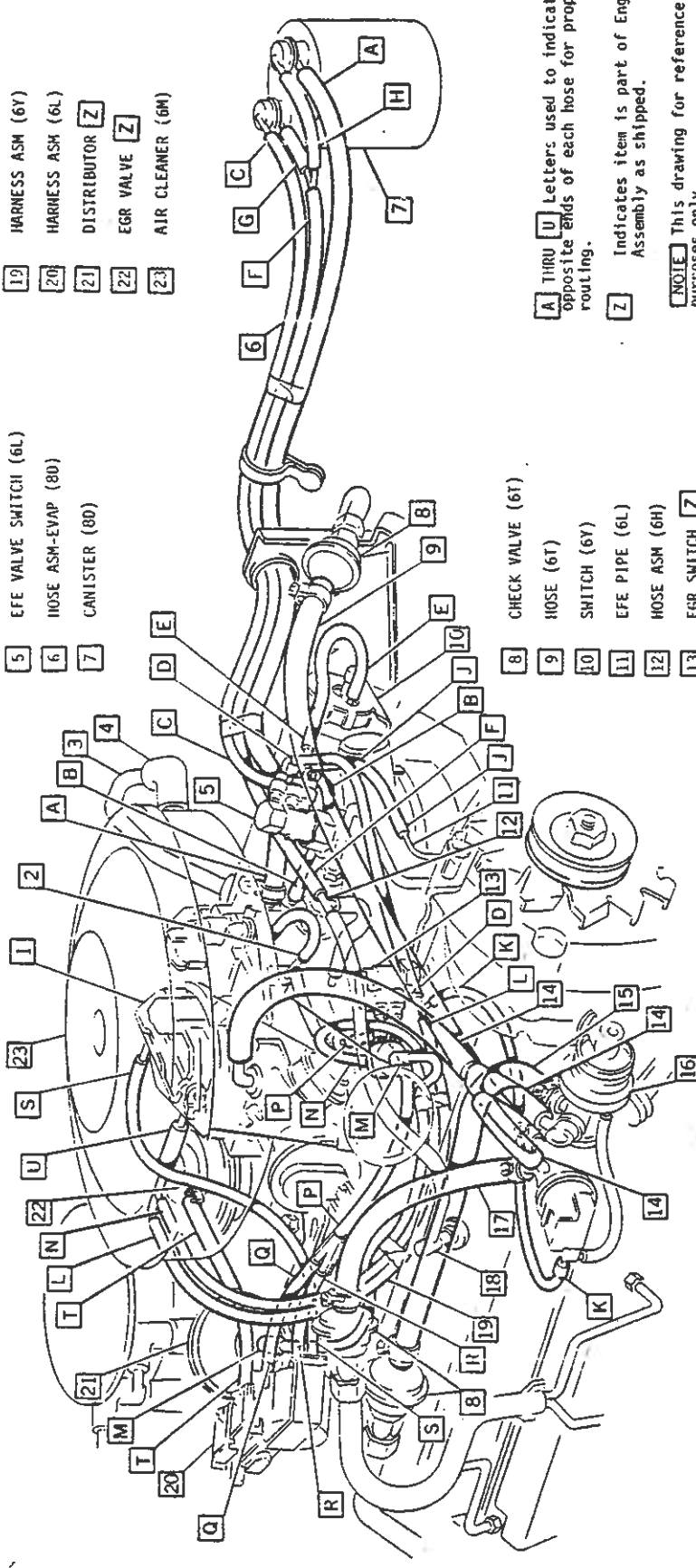
▲ FULLY DRIVEN, SEATED & HOT STRIPPED

WAITING LAYOUT APPROVAL

- 15 HOSE (6T)
- 16 A. I. R. CONTROL VALVE (6T)
- 17 HOSE (6T)
- 18 PCV VALVE (6H)
- 19 HARNESS ASM (6Y)
- 20 HARNESS ASM (6L)
- 21 DISTRIBUTOR Z
- 22 EGR VALVE Z
- 23 AIR CLEANER (6M)

- 1 CARBURETOR (6M)
- 2 AIR CLEANER HOSE (6M)
- 3 PIPE (6H)
- 4 HOSE (6H)
- 5 EFE VALVE SWITCH (6L)
- 6 HOSE ASM-EVAP (80)
- 7 CANISTER (80)

- 8 CHECK VALVE (6T)
- 9 HOSE (6T)
- 10 SWITCH (6Y)
- 11 EFE PIPE (6L)
- 12 HOSE ASM (6H)
- 13 EGR SWITCH Z
- 14 TUBE (6T)



THRU U Letters used to indicate opposite ends of each hose for proper routing.
 Z Indicates item is part of Engine Assembly as shipped.
 NOTE This drawing for reference purposes only.

DYNAMIC (Instal) Part		DATE	SYN	REVISION	ABTN	DE	CK	CHK	DATE	BY	DIV	TITLE	
<input type="checkbox"/>	<input type="checkbox"/>											1981 CHEV. "F" 14020867	
<input type="checkbox"/>	<input type="checkbox"/>											EMISSION CONTROLS	
<input type="checkbox"/>	<input type="checkbox"/>											FADO & LCC 8MV9 OR M31 & L41	
<input type="checkbox"/>	<input type="checkbox"/>											UPC	
<input type="checkbox"/>	<input type="checkbox"/>											6Z	
<input type="checkbox"/>	<input type="checkbox"/>											SHEET 9	

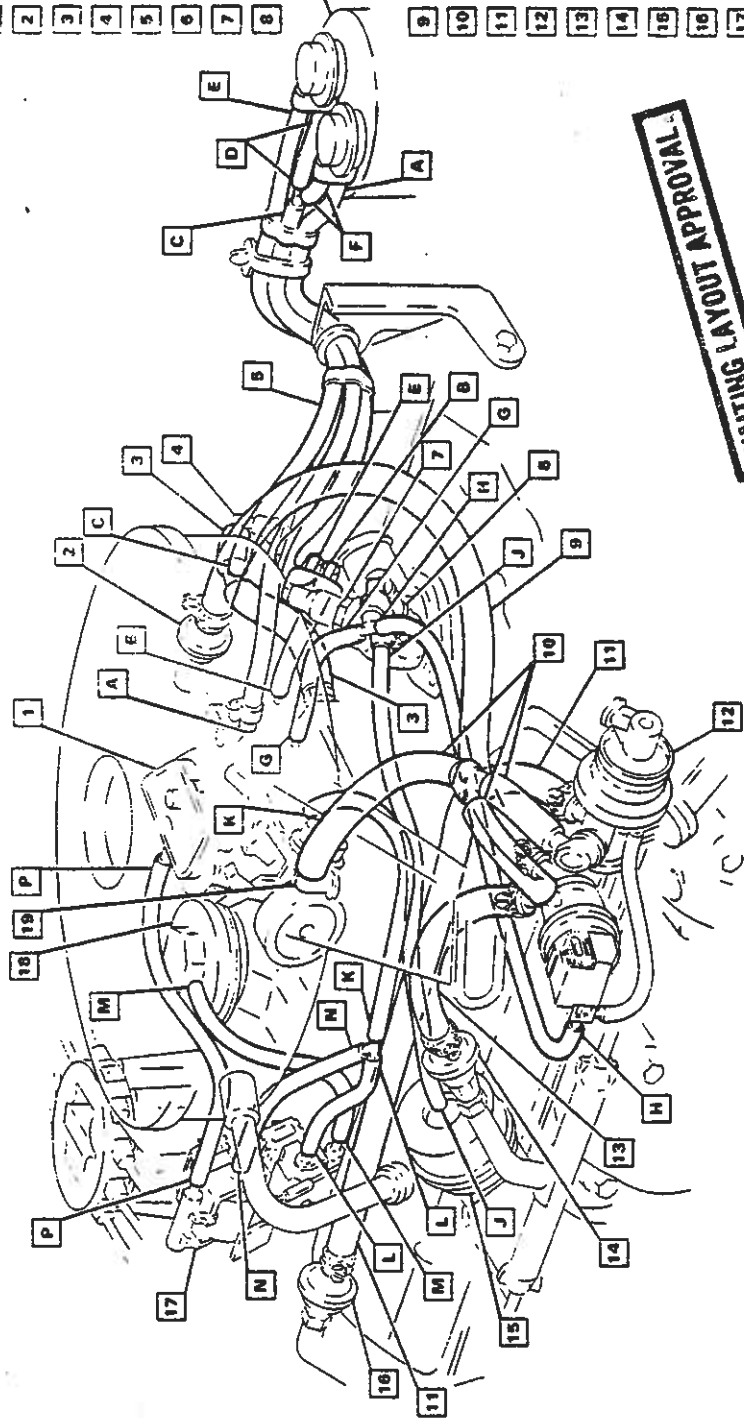
FULLY DOTTEN, SEALED & NOT STRIPPED
 C X 1 0 7 C

PRODUCT DESCRIPTION MANUAL

General Motors Corporation
CHEVROLET MOTOR DIVISION

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 1 CARB (6M)
- 2 CHECK VALVE (6T)
- 3 HOSE (6H)
- 4 PCV VALVE (6H)
- 5 HOSE ASM-EVAP (8D)
- 6 CANISTER (8D)
- 7 SWITCH Z
- 8 SWITCH Z
- 9 HOSE LH (6T)
- 10 TUBE (6T)
- 11 HOSE (6T)
- 12 A.I.R. CONT SWITCH VALVE (6T)
- 13 HOSE RH (6T)
- 14 CHECK VALVE (6T)
- 15 EFE ACTUATOR (6L)
- 16 CHECK VALVE (6T)
- 17 HARR ASM (6L)
- 18 EGR VALVE Z
- 19 AIR CLEANER (6M)



A THRU P Letters used to indicate opposite ends of each hose for proper routing.

Z Indicates item is part of Engine Assembly as shipped.

NOTE: This drawing for reference purposes only.

DYNAMIC (Installed Item)	HAND (Imp.)	DATE	SYN	REVISION	AUTH	DE	CR	CHK	DATE	DIV	TITLE
△	△								08 R KOCH	CHEVROLET	1981 CHEV. "F" 14020867
△	△								08 R KOCH	CHEVROLET	EMISSION CONTROLS
△	△								08 R KOCH	CHEVROLET	FA00 81 39 BNV4 8N81
△	△								08 R KOCH	CHEVROLET	(HS)
△	△								08 R KOCH	CHEVROLET	6Z
△	△								08 R KOCH	CHEVROLET	SHEET
△	△								08 R KOCH	CHEVROLET	77

343

△ ONLY DRAWN, SEATED & NOT STRIPPED

C X 1 1 0 P X G

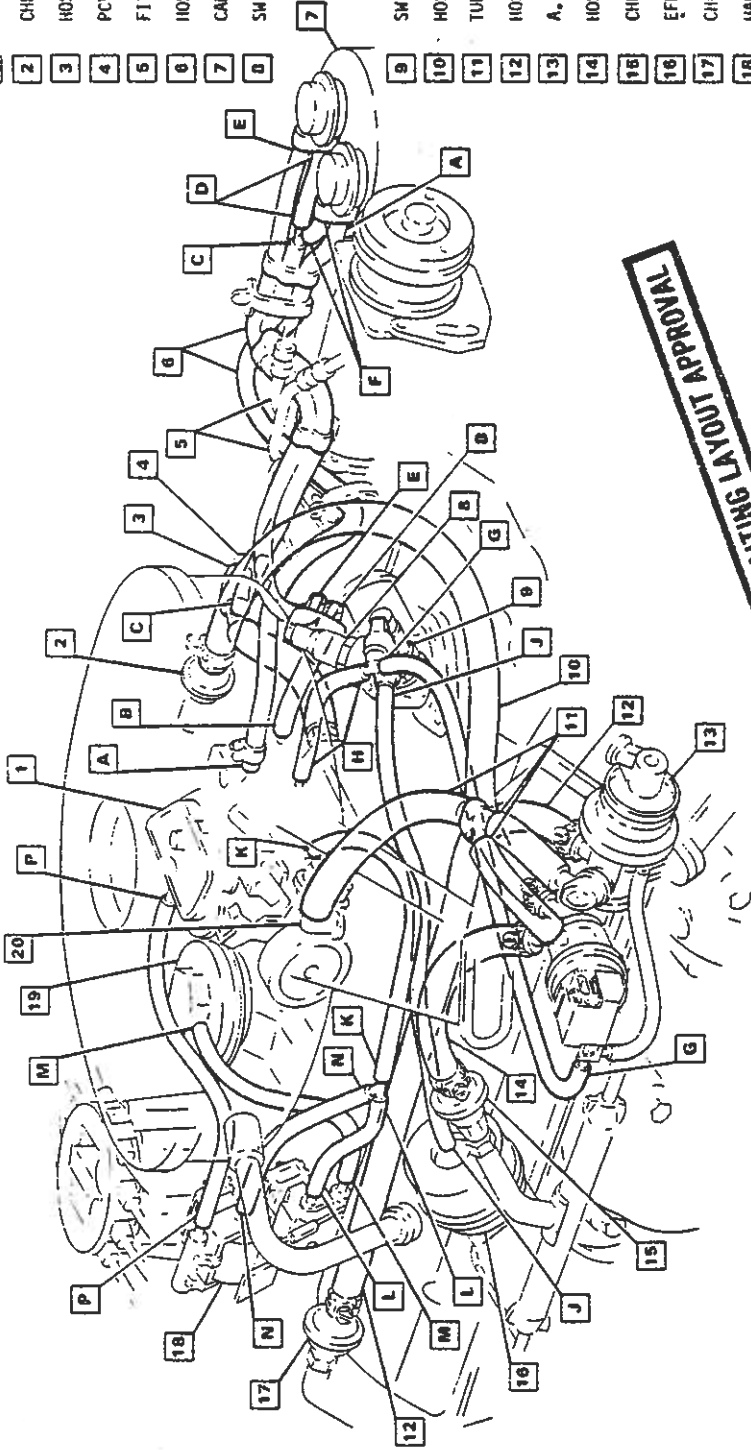
PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION



- 1 CARB (64)
- 2 CHECK VALVE (6T)
- 3 HOSE (6H)
- 4 PCV VALVE (6H)
- 5 FITTING ASM (1A2K)
- 6 HOSE ASM-EVAP (8D)
- 7 CANISTER (8D)
- 8 SWITCH **Z**
- 9 SWITCH **Z**
- 10 HOSE LH (6T)
- 11 TUBE ASM (6T)
- 12 HOSE (6T)
- 13 A.I.R. CONT SWITCH VALVE (6T)
- 14 HOSE RH (6T)
- 15 CHECK VALVE (6T)
- 16 EFE ACTUATOR (6L)
- 17 CHECK VALVE (6T)
- 18 HARN ASM (6L)
- 19 EGR VALVE **Z**
- 20 AIR CLEANER (6M)



A THRU **P** Letters used to indicate opposite ends of each hose for proper routing.

Z Indicates item is part of Engine Assembly as shipped.

NOTE This drawing for reference purposes only.

1981 CHEV. "F" 14020867

EMISION CONTROLS
FA00 6L39 6M4 6B1 6C60

DATE	BY	APP	REV
05/20/80	DR R. KOCH/CU		

DATE	BY	APP	REV

CHEVROLET

NEW 22JUL80

344

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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FULLY DRAWN, SEATED & NOT STRIPPED								SHEET	12

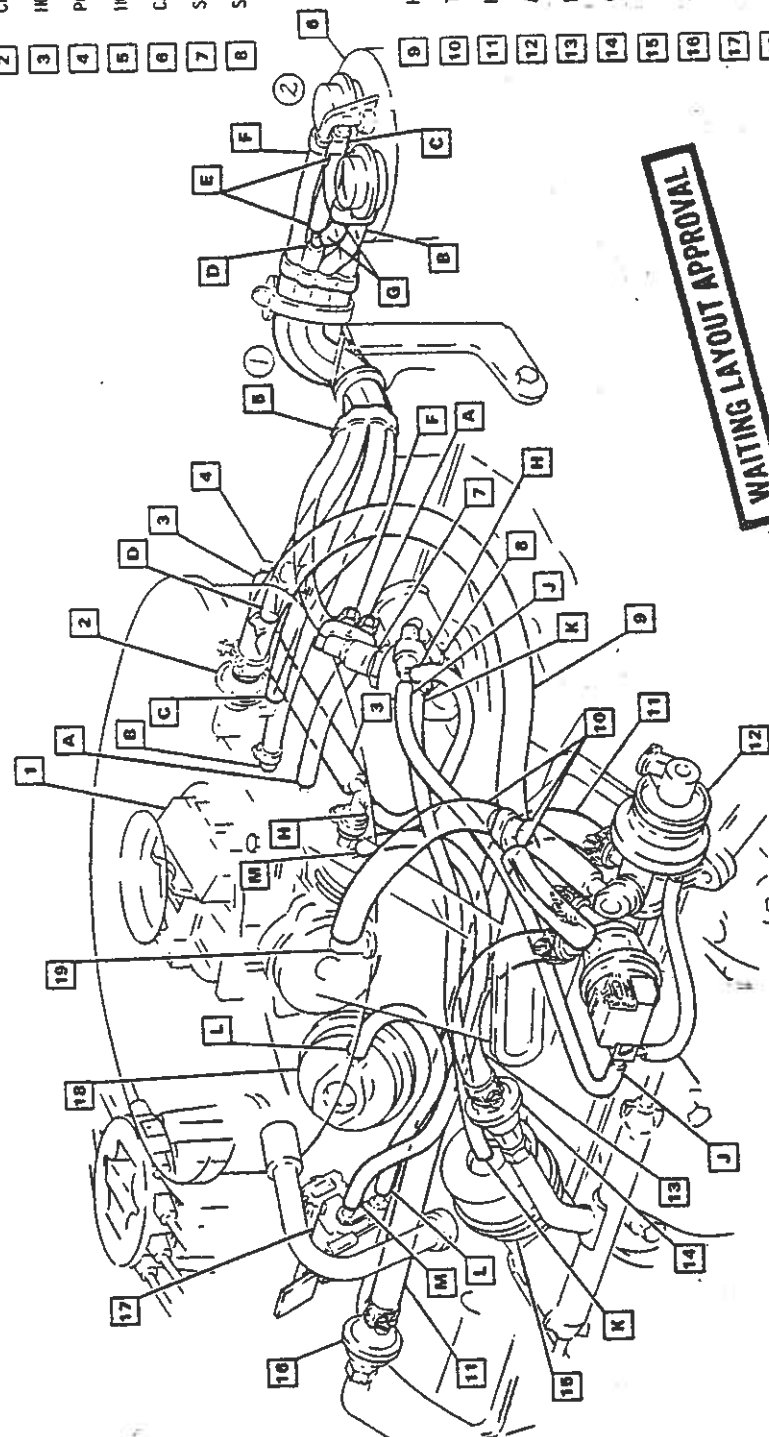
PRODUCT DESCRIPTION MANUAL

ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

General Motors Corporation
CHEVROLET MOTOR DIVISION



- 1 CARB (6M)
- 2 CHECK VALVE (6T)
- 3 HOSE (6H)
- 4 PCV VALVE (6H)
- 5 HOSE ASM-EVAP (8D)
- 6 CANISTER (8D) Z
- 7 SWITCH Z
- 8 SWITCH Z
- 9 HOSE LH (6T)
- 10 TUBE (6T)
- 11 HOSE (6T)
- 12 A.I.R. CONT. SWITCH VALVE (6T)
- 13 HOSE RH (6T)
- 14 CHECK VALVE (6T)
- 15 EFE ACTUATOR (6L)
- 16 CHECK VALVE (6T)
- 17 HARN ASM (6L)
- 18 EGR VALVE Z
- 19 AIR CLEANER (6M)



A THRU **M** Letters used to indicate opposite ends of each hose for proper routing.

Z Indicates item is part of Engine Assembly as shipped.

NOTE This drawing for reference purposes only.

DATE	SYN	REVISION	DATE	BY	CHK	APP	DATE	BY	CHK	APP
26.5.EBC	1	'80 HOSE ASM ROUTING REVISED	25 JUL 80	DR	R. KOCH					
	2	'80 CANISTER DNG REVISED			CR	Flywheel				
					APPE	NG				
					APPE					
					APPE					
					APPE					

345

EMISSION CONTROLS FA00 BLG4 8M24 8M01	(NS)	UPC	6Z	SHEET	13
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1981 CHEV. "F" 14020867

CHEVROLET

BU ECR 86448
NEW 10JUL80

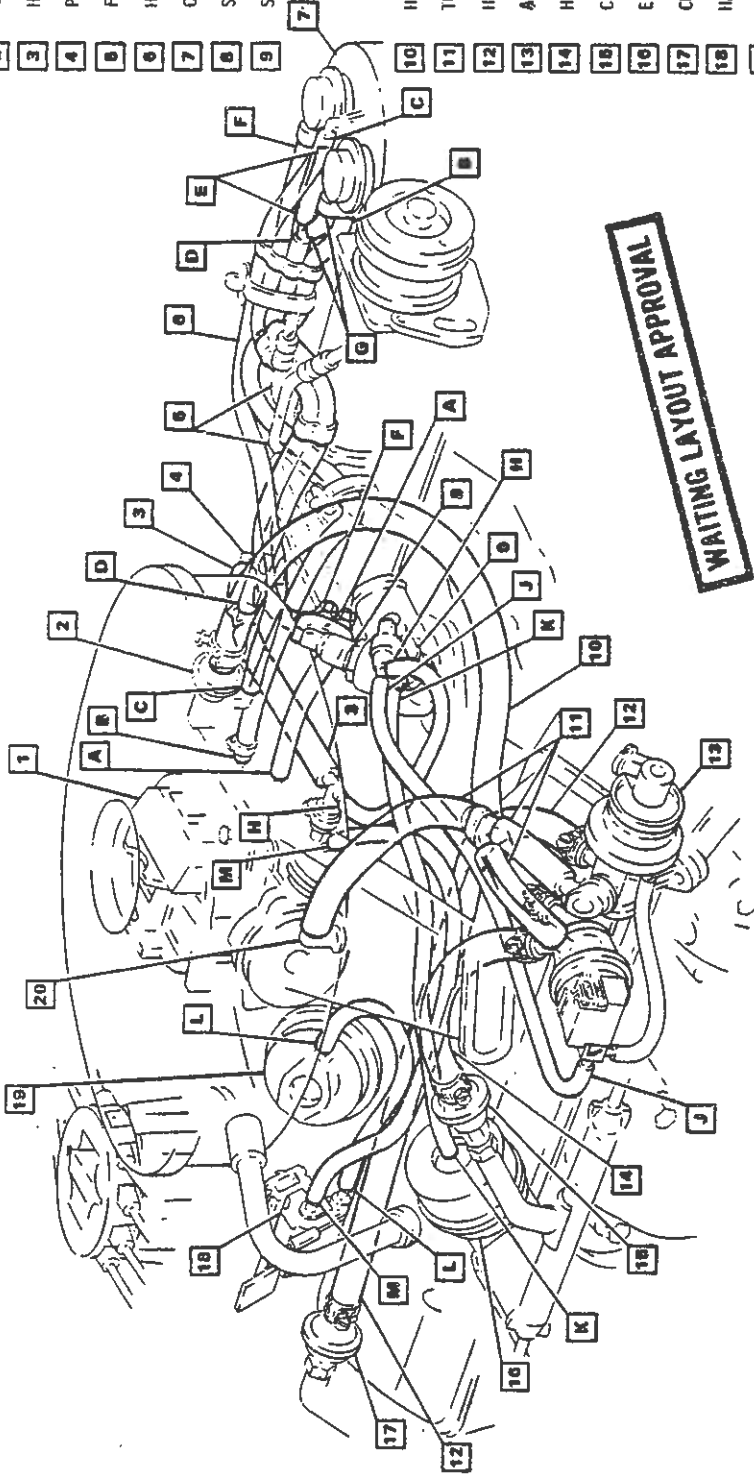
WAITING LAYOUT APPROVAL

A EQUILY DRIVEN, SEATED & NOT STOPPED

0 0 0 0 0 0 0 0 0 0

ITEM REFERENCE PROCESS MATERIAL TORQUE

- 1 CARB (6M)
- 2 CHECK VALVE (6T)
- 3 HOSE (6H)
- 4 PCV VALVE (6H)
- 5 FITTING ASM: (1A2K)
- 6 HOSE ASM-EVAP (8D)
- 7 CANISTER (6D)
- 8 SWITCH Z
- 9 SWITCH Z
- 10 HOSE LIN (6T)
- 11 TUBE ASM (6I)
- 12 HOSE (6T)
- 13 A.I.R. CONT SWITCH VALVE (6T)
- 14 HOSE RUI (6T)
- 15 CHECK VALVE (6T)
- 16 EFE ACTUATOR (6L)
- 17 CHECK VALVE (6T)
- 18 HARN ASM (6L)
- 19 EGR VALVE Z
- 20 AIR CLEANER (6M)



A THRU **M** Letters used to indicate opposite ends of each hose for proper routing.

Z Indicates item is part of Engine Assembly as shipped.

NOTE This drawing for reference purposes only.

DYNAMIC (Instal) Part No		DATE	SYM	REVISION	AUTH	DR	CK	ISS	DATE	DIV	TITLE
▲									08/18/80	CHEVROLET	1981 CHEV. "F" 14020867
▲											EMISSION CONTROLS
▲											FA00 8LG4 8M24 8M01 8C50
▲											(NS)
▲											UPC
▲											6Z
▲											14
▲											SHEET

346

RF ECR 86448
NEW 22/JUL/80

FULLY DRIVEN, SEATED & HOT STOPPED

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

PRODUCT DESCRIPTION MANUAL

EXISTING AS PART OF



TODAY

PROCESS MATERIAL



ITEM REFERENCE



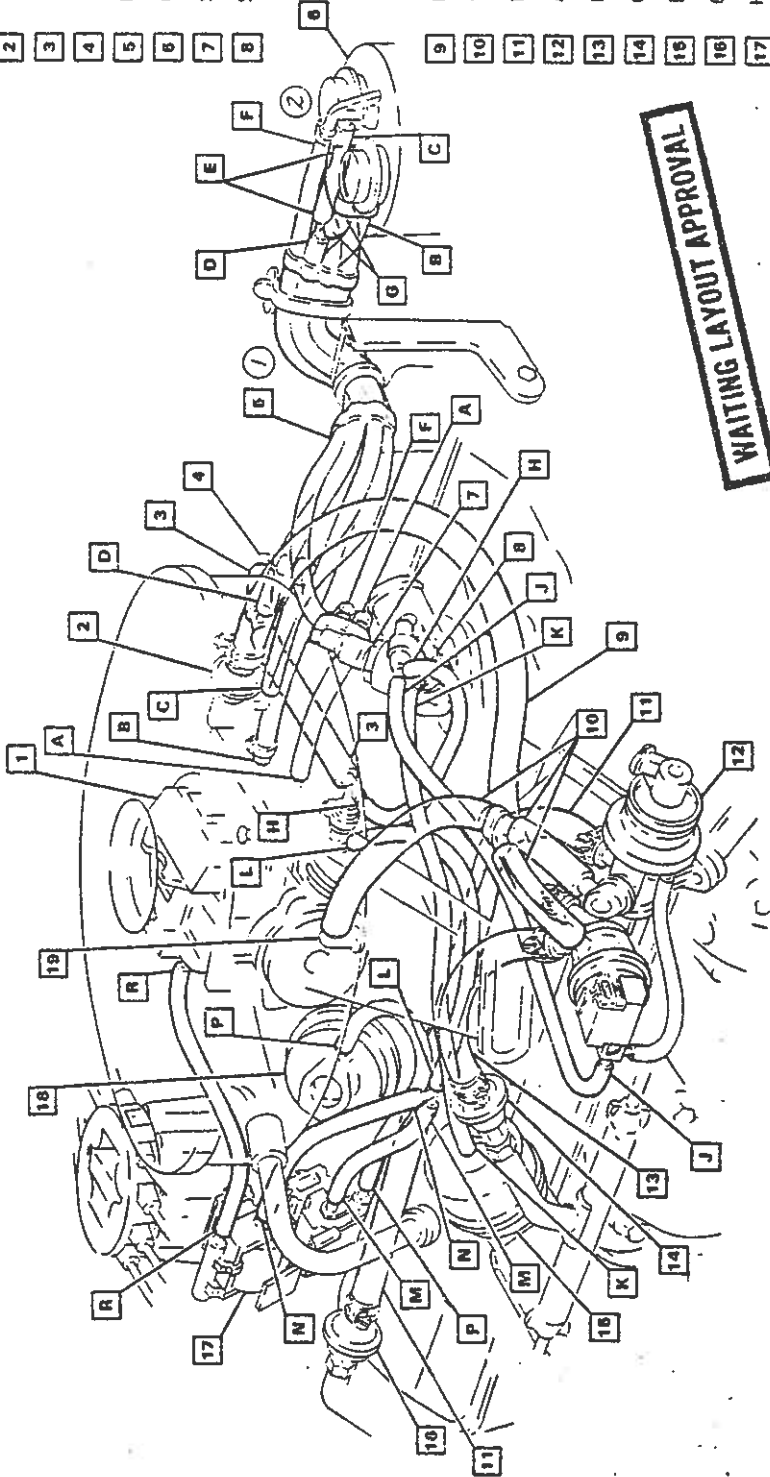
General Motors Corporation
CHEVROLET MOTOR DIVISION



- 1 CARB (6M)
- 2 CHECK VALVE (6T)
- 3 HOSE (6H)
- 4 PCV VALVE (6H)
- 5 HOSE ASH-EVAP (8D)
- 6 CANISTER (8D)
- 7 SWITCH Z
- 8 SWITCHII Z

- 9 HOSE LH (6T)
- 10 TUBE (6T)
- 11 HOSE (6T)
- 12 A.I.R. CONT SWITCH VALVE (6T)
- 13 HOSE RH (6T)
- 14 CHECK VALVE (6T)
- 15 EFE ACTUATOR (6L)
- 16 CHECK VALVE (6T)
- 17 HARN ASM (6L)
- 18 EGR VALVE Z
- 19 AIR CLEANER (6M)

NOTE: This drawing for reference purposes only.



WAITING LAYOUT APPROVAL

Z Indicates item is part of Engine Assembly as shipped.

A THRU R Letters used to indicate opposite ends of each hose for proper routing.

DYNAMIC (Inches) (mm)		DATE	SYN	REVISION	AUTH	DR	CR	IN	DATE	DIV	1981 CHEV. "F" 14020667	
▲	▲	3/5/80	1	*80 HOSE ASY ROUTING REVISED	BRN	CS			08 R KOCH	CHEVROLET	EMISSION CONTROLS	
▲	▲		2	*80 CANISTER PONG REVISED					08 NABER & HB	NEW 10JL80	FACO 8L64 8M4 8ND1	
▲	▲								APPE NS		- (NS)	
▲	▲								APPE		DPC	
▲	▲								APPE		6Z	
347											SHEET	
FULLY DRAWN, SEATED & NOT SHIPPED											15	
G	X	B	0	7	X	G						

PRODUCT DESCRIPTION MANUAL

LEADING AS PART OF

TRUCK

TRUCK

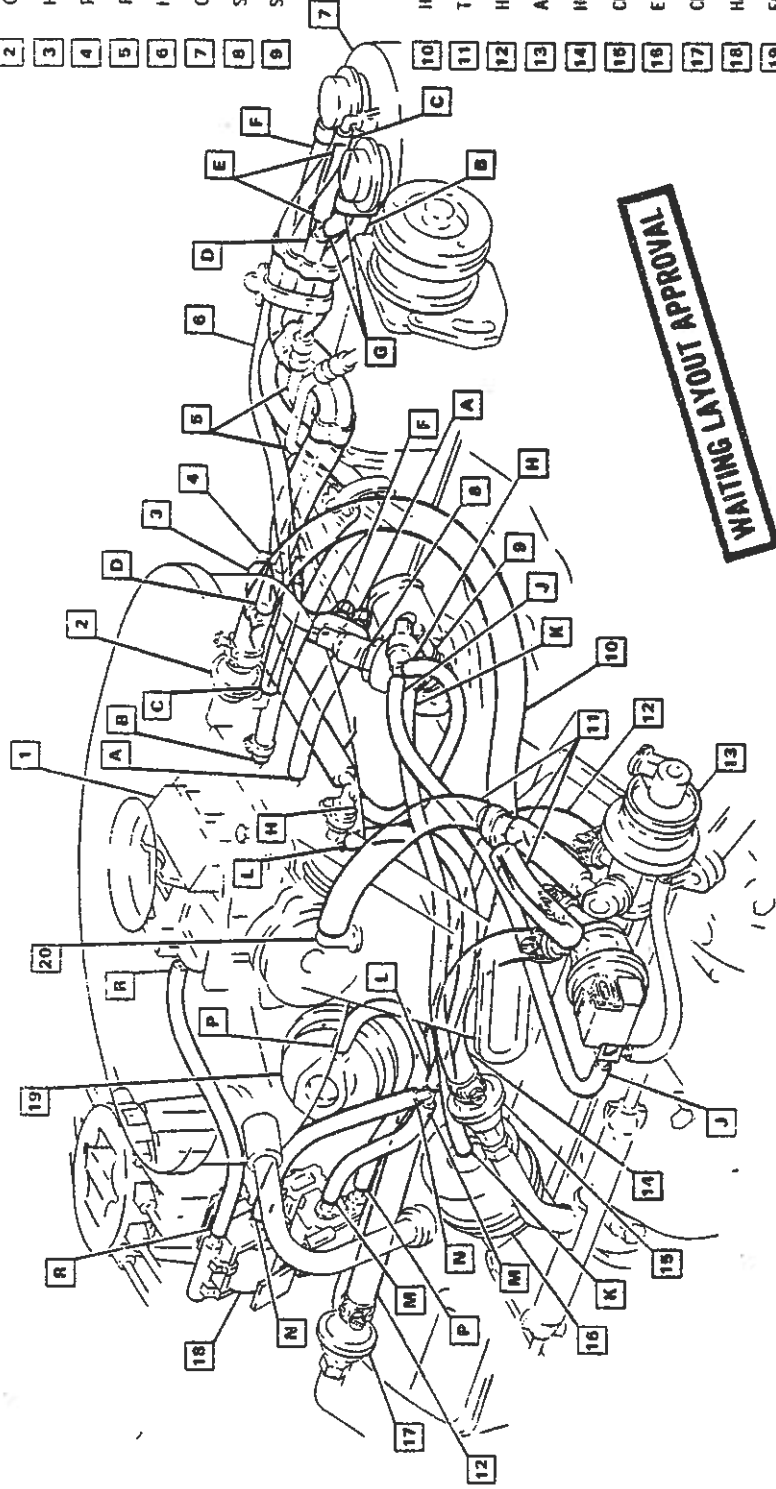
TRUCK

TRUCK

General Motors Corporation
CHEVROLET MOTOR DIVISION



- 1 CARD (6M)
- 2 CHECK VALVE (6T)
- 3 HOSE (6H)
- 4 PCV VALVE (6H)
- 5 FITTING ASF: (1A2K)
- 6 HOSE ASM-EVAP (8D)
- 7 CANISTER (E0)
- 8 SWITCH Z
- 9 SWITCH Z
- 10 HOSE LH (6T)
- 11 TUBE ASM (6T)
- 12 HOSE (6T)
- 13 A.I.R. CONT SWITCH VALVE (6T)
- 14 HOSE RH (6T)
- 15 CHECK VALVE (6T)
- 16 EFE ACTUATOR (6L)
- 17 CHECK VALVE (6T)
- 18 HARN ASM (6L)
- 19 EGR VALVE Z
- 20 AIR CLEANER (6M)



WAITING LAYOUT APPROVAL

NOTE This drawing for reference purposes only.

Z Indicates item is part of engine assembly as shipped.

A THRU **R** Letters used to indicate opposite ends of each hose for proper routing.

1981 CHEV. "F" 14020867		DIV		DATE 02/10/80		DR R. KOCH/CU		BY R. KOCH/CU		REV 0348	
EMISION CONTROLS FA00 ALG4 BIVA BHD1 8C60		CHEVROLET									
(HS)		REV ECR 86448		APR		APR		APR		APR	
SHEET 16		NEW 23JL80		APR		APR		APR		APR	
UPC 6Z											
FULLY BOLTED, SEALED & NOT STOPPED											

PONTIAC MOTOR DIVISION

General Motors Corporation

Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

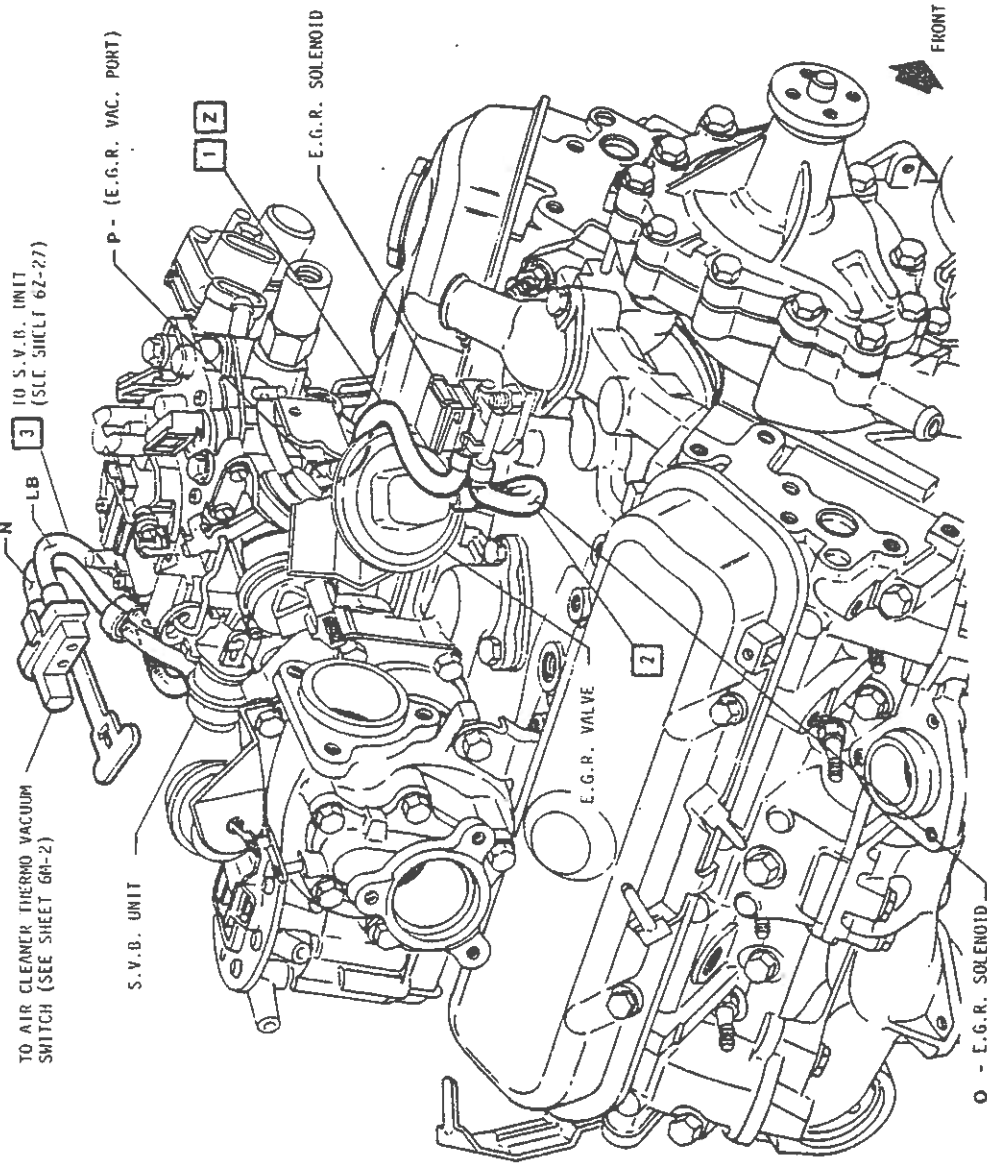
ITEM REFERENCE PROCESS MATERIAL TORQUE EXISTING AS PART OF

- 1 6L3 - HOSE --- (E.G.R.) --- UPL
- 2 6L3 - HOSE
- 3 6L3 - HARNESS (S.V.B.)

HOSE STRIPE IDENTIFICATION

- N - NONE
- LB - LIGHT BROWN
- O - ORANGE
- P - PURPLE

Z ROUTE HOSE UNDER CHOKE SHIELD TO E.G.R. VAC. PORT ON CARB.



CAUTION - THIS SHEET IS FOR REFERENCE ONLY

1981 CHEV. "F" 14020867		DIV		DATE		05 MR 80	
EMISSION HOSES (FRONT VIEW) FAOD & LUB		CHEVROLET		DR		E.D. ROTIMPELL	
E.C.R. 86448 HEM 21MR80 6Z-26 RK		APP		TR		UES	
6Z		APP		APP		APP	
17		APP		APP		APP	
349		ISSUED		REVISION		SHEET CANCELED	
DATE		SYN		DATE		SYN	
11AP80		/		72AP80		/	
HAND 'Insp' ' H m		DYNAMIC (Inventor)		DATE		SYN	
FULLY DRIVEN, SEALED & NOT STAMPED		/		/		/	

PONTIAC MOTOR DIVISION

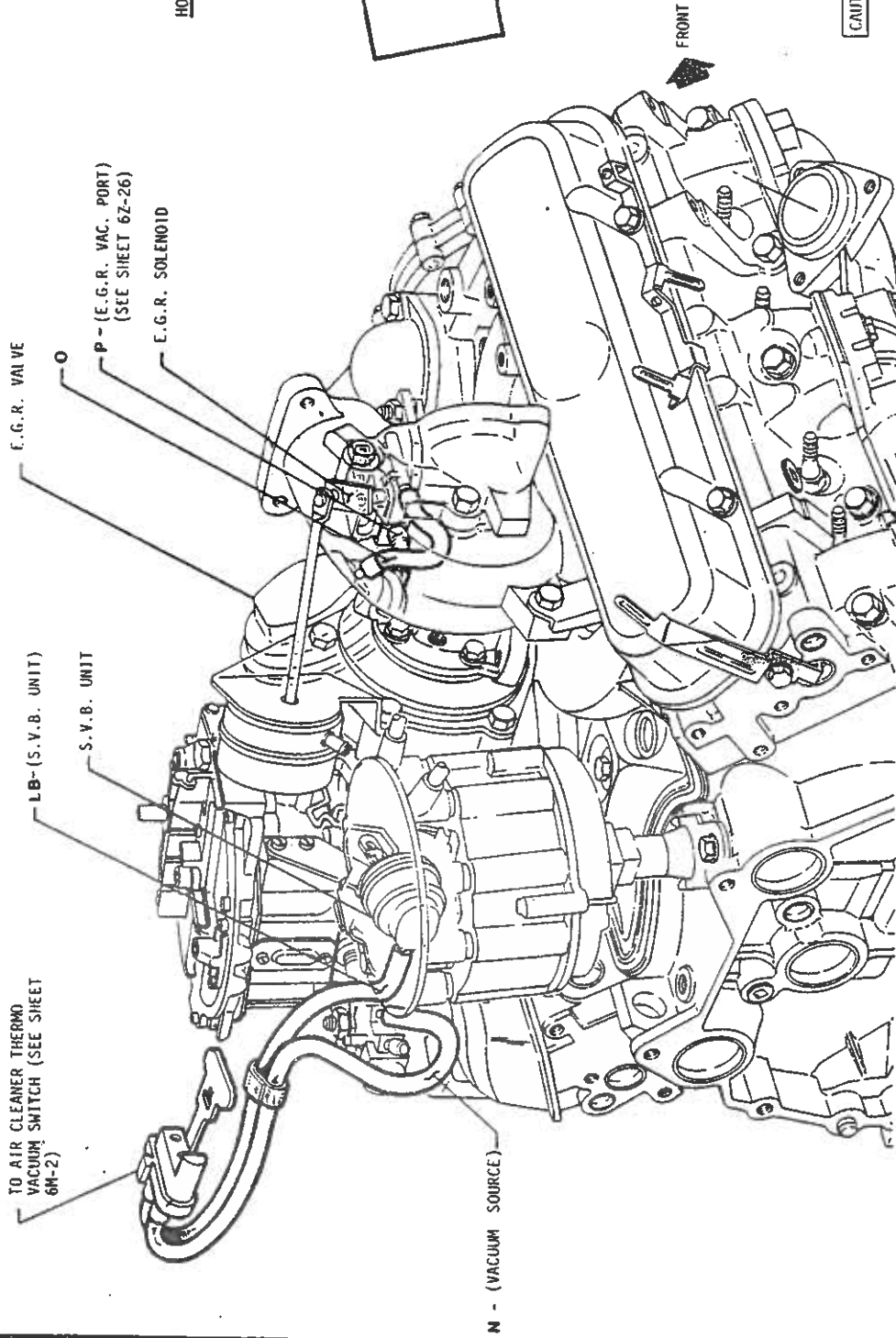
General Motors Corporation

Pontiac, Michigan

PRODUCT DESCRIPTION MANUAL

EXISTING AS PART OF

ITEM REFERENCE PROCESS MATERIAL TORQUE



HOSE STRIPE IDENTIFICATION

- N - NONE
- LB - LIGHT BROWN
- O - ORANGE
- P - PURPLE

CANCELED

CAUTION THIS SHEET IS FOR REFERENCE ONLY

DATE			SYN			ISSUED			REVISION			DIV			TTL					
7/14/80	7/14/80																1981 CHEV. "F" 14020867			
TO AIR CLEANER THERMO VACUUM SWITCH (SEE SHEET 6M-2)						SHEET 1						SHEET CANCELED			CHEVROLET			EMISSION HOSES (REAR VIEW)		
TO AIR CLEANER THERMO VACUUM SWITCH (SEE SHEET 6M-2)															E.C.R. 8644B			FA00 & LUB		
TO AIR CLEANER THERMO VACUUM SWITCH (SEE SHEET 6M-2)															NEW 21MR80			RK 6Z		
TO AIR CLEANER THERMO VACUUM SWITCH (SEE SHEET 6M-2)															GT-27 RK			SHEET 18		
TO AIR CLEANER THERMO VACUUM SWITCH (SEE SHEET 6M-2)															350					

ONLY DIMS SHOWN & NOT STRIPPED

48-108

PRODUCT DESCRIPTION MANUAL

BUICK MOTOR DIVISION
GENERAL MOTORS CORPORATION FLINT, MICHIGAN

EXISTING AS PART OF



- 1 HARNES ASM - EFE/EGR (WHITE)
- 2 CLIP
- 3 CLIP

LUBRICANT - APPLY TO HARNES ENDS AS NECESSARY.

9985406

TO A.I.R. VALVE (6T)

TO CANISTER (8D)

HIGH ENERGY IGNITION

DELCO STRUT

HOSE COLOR IDENTIFICATION

- O - ORANGE STRIPE
- P - PURPLE STRIPE
- L - YELLOW STRIPE
- W - WHITE STRIPE
- K - PINK STRIPE

NOTE: ALL PARTS SHOWN ON THIS SHEET ARE INSTALLED IN THE ENGINE PLANT.

DYNAMIC (Master)	MANUAL (Imp.)	M.M.	DATE	SYM	ISSUED	REVISION	DATE	BY	DATE	BY
			25 JUL 80	CA						

1981 CHEV. "F" 14020867		
TITLE	EMISION HOSES	
	FAAO BLD5 88B1	
CHEVROLET		
TUB ECR 86448		
NEW 300C80		
6Z-10.2 RL		
	6Z	19
SHEET		

BUICK FORM 118