TO REPAIR

GF4175-13

ROCHESTER CARBURETOR

2 BARREL---MODEL E2MC, E2ME, M2MC, M2ME

FUEL SYSTEM SERVICE INSTRUCTION WORKSHEET

- Carefully read the text in the following pages to become familiar with the contents of this worksheel <u>before</u> performing carburetor overhaul.
 The exploded view is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being overhauled.
- Use the exploded view as a guide. The numerical sequence of the parts list may generally be followed to disassemble the carburetor far enough to permit cleaning and inspection.
- Parts list shown DOES NOT reflect the contents of the kit.
- Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worn parts found in carburetor.

CLEANING

Cleaning must be done with carburetor disassembled. Soak or spray parts in cleaning solvent long enough to soften foreign matters. Caution: Do not soak or spray parts made of rubber, leather, plastic or electrical parts. Remove all loose particles and dirt using a stiff bristle brush. Do not use abrasives. Do not use a metal wire to clean out passageways and jets. Wash off in suitable solvent. Clear all passageways and jets with compressed air.

PARTS LIST Screw, Bracket, W.O.T. Switch & Sol.* Switch Assy., W.O.T. #* Solenoid Assy., Idle Speed Idle Speed Control Assy. (I.S.C.)* Screw, Vacuum Brake, Pri. (2) Vacuum Braak Assy., Pri. (Choke Pull-Off) Rivet, Air Bleed Valve Cover (2) PARTS LIST SHOWN DOES NOT REFLECT THE CONTENTS OF THE KIT. Cover, Air Bleed Valve Air Bleed Valve† & "O" Ring Assy. Pin, Pump Lever, Fulcrum Lever, Pump 10. 26 Rod, Pump Rod, Actuator, T.P.S. 12 13. Rod, Actuator, T.P.S. Plug, Adj. Screw, T.P.S.+ Screw, Adj., T.P.S. Screw, Choke Lever Lever, Choke Shaft Screw, Air Horn (long - 7) Screw, Air Horn (short - 2) Pump Piston Assembly Screw, Stop, Bich Mithure 15 10 17 19 20 21 22 23 24 25 26 27 28 Pump Piston Assembly Screw, Stop, Rich Mixture Adj. Plug, Rich Mixture Stop Screw Plug, Lean Mixture Screw Retainer & Seal, T.P.S. Retainer & Seal, T.P.S. Retainer & Seal, Pump Rod Air Horn Assembly Plunger, Mixture Control Sol. Rod, Metering (2) Spring, Metering Rod (2) Gasket, Electrical Connector Screw, Vacuum Break, Aux. (3) Vacuum Break Asyx. Aux. <u>چ</u> 61 36 29. Vacuum Break Assy., Aux. Gasket, Air Horn to Main Body Insert, Plastic, Fuel Chamber 32 33 29 35 Screw, Electrical Connector 50 Screw, Electrical Connector, Connector, Electrical Screw, Adj., Lean Mixture Solenoid Assy., Mixture Control Spring, Screw Adj., Lean Mixture Spring, Solenoid Assy. Mixture Control Insert, Plastic, Aneroid Cavity Hinge Pin, Float 35A 36 35 39 40. 41 42 57 Float Float Lift Hook, Float Needle Needle, Seat & Gasket Assy. Spring, Pump Return Jet, Main (2) Baffle, Fuel Pump Well Cover, Pump Discharge Ball Ball, Pump Discharge Throttle Position Sensor (T.P.S.) 43. HOT AIR CHOKE MODEL 45 46 48 51 52 Spring, T.P.S. Rivet, Stat Cover (3)†† 60 53. 54. Screw, Stat Cover (3) 3 Retainer (2) Retainer, Locating Tab 55 56 Stat Cover, Electric Choke Stat Cover, Hot Air Choke 68 Gasket, Stat Cover* Screw, Choke Housing to Main Body 58 Lever Choke, Lower Rod, Choke 60. 73 Hoo, Choke Link, Connecting Aux. Vacuum Break Seal, Choke Housing* Screw, Lever, Stat Coil Lever, Inter. Shaft, Stat Cover Cam, Fast Idle 62. 72 64 65 66 66 67 68 Choke Shaft & Lever Assy. Inter. Seal, Intermediate Choke Shaft 69 69. 70. 71. 72. Housing, Choke Screw & Spring, Idle Speed Fitting†† & Gasket, Fuel Inlet Filter, Fuel 73. 74. 75. 76. Screw & Spring, Idle Mixture (2) Main Body Screw, Throttle Body to Main Body Gasket, Throttle Body to Main Body Screw, Lever, Throttle Shaft 75 78 Spring, Cam Follower Lever Adj., Fast Idle Screw & Spring, Fast Idle Adj. Follower, Cam RO 83. Throttle Flange Assembly Gasket, Throttle Flange

REMOVAL & INSTALLATION NOTES

- 1. Cover opening on intake manifold after carburetor is removed.
- 2. For removal and installation of choke cover, refer to Fig. 1.
- Air horn screws (19) are located inside the air horn. Do not remove brass tubes from air horn assy.
- Air bleed valve cover (8) may be riveted. Drill out rivets and discord cover. (not replaced).
- Before removing air bleed valve (9), turn clockwise until lightly seated counting number of turns. Record for proper installation. (If not known, turn back 4 turns).
- Main jets (46) can be removed with proper tool. See service manual.
- 7. For removal of idle mixture screw plugs (74), refer to Fig. 2.
- Before removing idle mixture screws (75), turn clockwise until lightly seated counting number of turns. Record for proper installation. Also see spec. chart.
- 9. Install parts in reverse order of removal.
- 10. Refer to Fig. 3 for proper float installation.

- Make sure to install seals, (24) & (25), with lip facing upward. Lightly stake retainers in three places.
- For models with electrical choke do not install choke cover gasket.
- 13. Refer to Fig. 4 for proper installation of air horn assy.
- 14. If angle gauge tool is not available, use standard gauge (provided in kit) along with conversion table on page 6.
- Before removing T.P.S., (50), mark height location then remove staking around sensor. Lift out sensor but do not disturb the sealed adjusting screw. Refer to Fig. 13.
- Adjustments for idle air bleed valve and mixture control system require precise settings. Refer to service manual for these procedures.
- Model M2MC, E only. Caution: Do not remove or alter the metering rod adjusting screw. This screw sets the maximum travel of the metering rod.

ADJUSTMENT DATA

FIG. 1

REMOVAL & INSTALLATION OF CHOKE COVER

- CAREFULLY DRILL AND REMOVE ALL RIVET HEADS. USE #21 DRILL BIT.
- USE A SMALL DRIFT PUNCH AND HAMMER TO DRIVE REMAINDER OF RIVETS OUT.

NOTE: EXERCISE CARE IN DRILL-ING. DO NOT DAMAGE OR EN-LARGE THE HOLES IN THE CHOKE HOLISING

3. WHEN INSTALLING CHOKE COV-ER, MAKE SURE THAT COIL PICK-UP LEVER IS IN COIL SPRING LOOP END. ALIGN NOTCH IN COVER WITH RETAIN-ER TAB AND TIGHTEN NEW SCREWS (SELF TAPPING SCREWS ARE IN KIT) EVENLY AND SECURELY, NOTE: IN SOME APPLICATIONS, INSTALL COVER WITH NEW POP RIVETS.

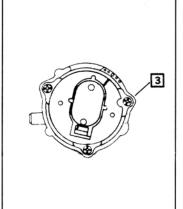


FIG. 3-A FLOAT NEEDLE & CLIP LOCATION

NOTE: HOOK CLIP OVER EDGE OF FLAT ON FLOAT ARM IN OPPOSITE DIRECTION OF PONTOON (AS SHOWN).

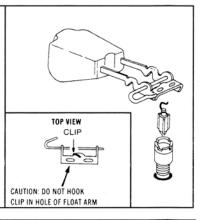


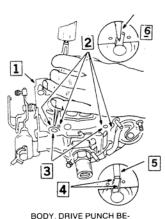
FIG. 2

REMOVAL OF SEALED MIXTURE SCREWS (IF REQUIRED)

- INVERT THROTTLE BODY AS SHOWN.
- PLACE PUNCH BETWEEN 2 LO-CATION MARKS OVER ISLE MIX-TURE NEEDLE PLUG.
- BREAK OUT THROTTLE BODY TO PROVIDE ACCESS TO HARD-ENED STEEL PLUG. NEXT, DRIVE OUT PLUG EXPOSING MIXTURE NEEDLE.

NOTE: BEFORE REMOVING MIXTURE NEEDLE, CAREFULLY MARK POSITION THEN, USING A SOCKET WRENCH, TURN NEEDLE IN COUNTING NUMBER OF TURNS TO LIGHTLY SEAT. NEXT, TURN OUT COUNTING NUMBER OF TURNS TO ORIGINAL INDEX MARK, RECORD SETTING & REMOVE NEEDLE REPEAT PROCEDURE FOR OTHER MIXTURE

- LATE MODELS: CUT 2 PARALLEL SLOTS ON EITHER SIDE OF LO-CATION MARKS USING A HACK-SAW. SLOTS SHOULD NOT EXTEND BEYOND 1/8" OF LOCA-TION POINTS.
- POSITION A FLAT PUNCH AT A 45° ANGLE BETWEEN ENDS OF SAW MARKS IN THROTTLE



TWEEN SLOTS CAUSING SLUG TO BREAK OFF.

- NEXT, HOLD CENTER PUNCH IN A VERTICAL POSITION & DRIVE IT INTO STEEL PLUG. RE-POSITION PUNCH TO 45° ANGLE & DRIVE PLUG OUT OF CASTING EXPOSING MIXTURE NEFDLE
- REPEAT NOTE OF STEP 3 TO INDEX MIXTURE NEEDLES.

FIG. 3-B

KITS WITH PUMP CUP ONLY

REMOVE OLD CUP (WITH GARTER SPRING IF USED) FROM PUMP HEAD. INSTALL NEW CUP (WITH NEW GAR-TER SPRING, IF USED) IN SAME POSI-TION ON PUMP HEAD.

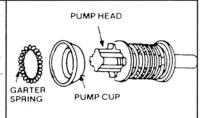
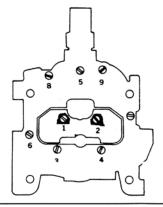


FIG. 4

SCREW TIGHTENING SEQUENCE - AIR HORN COVER

CAUTION: EXERCISE CARE WHEN IN-STALLING AIR HORN ASSY. TO MAIN BODY. CHECK FOR PROPER ALIGN-MENT OF T.P.S. (50) PLUNGER PIN WITH ACTIVATOR ROD (13). INCOR-RECT ALIGNMENT CAN CAUSE BREAKAGE OF PLUNGER PIN.



ADJUSTMENT DATA (Cont'd)

FIG. 5

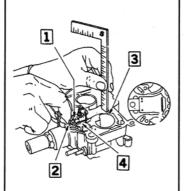
FLOAT LEVEL ADJUSTMENT

- 1. HOLD FLOAT RETAINER FIRMLY IN PLACE
- 2. PUSH FLOAT HINGE DOWN LIGHTLY AGAINST NEEDLE.
- MEASURE FROM TOP OF FLOAT TO TOP OF CASTING. NOTE: MEASURING POINT IS 3/16" BACK FROM TOE OF FLOAT.
- 4. TO ADJUST, BEND FLOAT ARM.

NOTE: ON CCC* CARBURETORS, IF FLOAT LEVEL VARIES ±1/16" FROM SPECS., CORRECT HIGH LEVEL AS FOLLOWS: HOLD RETAINER, PUSH DOWN ON CENTER OF FLOAT PONTOON TO ADJUST.

CAUTION: DO NOT PRESS FLOAT NEEDLE INTO SEAT.

TO CORRECT LOW LEVEL, REMOVE METERING RODS & SOLENOID CONNECTOR SCREW. INDEX LEAN CONNECTOR SCREW. INDEX LEAN MIXTURE SCREW & TURN IN UNTIL IT LIGHTLY BOTTOMS. TURN OUT. COUNTING NUMBER OF TURNS TO INDEX MARK, RECORD & REMOVE. LIFT CONNECTOR & SOLENOID FROM MAIN BODY. NEXT, BEND FLOAT ARM UP TO ADJUST,



CHECK FLOAT ALIGNMENT AFTER ADJUSTMENT. RE-INSTALL PARTS IN REVERSE ORDER.

COMPUTER COMMAND CONTROL

CHOKE COIL LEVER ADJUSTMENT

NOTE: REMOVE THERMOSTATIC COVER & COIL ASSY, FROM CHOKE HOUSING. IF NECESSARY, DRILL OUT RIVETS USING #21 DRILL (.159") OR EQUIVALENT. AFTER ADJUSTMENT REASSEM-BLE USING SIMILAR RIVETS OR SELF-TAPPING SCREWS.

- PUSH UP ON CHOKE COIL LEVER UNTIL CHOKE VALVE IS CLOSED
- 2. INSERT SPECIFIED GAUGE.
- LOWER EDGE OF LEVER SHOULD JUST CONTACT SIDE OF GAUGE.
- 4. TO ADJUST, BEND CHOKE

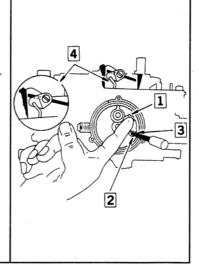


FIG. 7

FAST IDLE CAM (CHOKE ROD) ADJUSTMENT

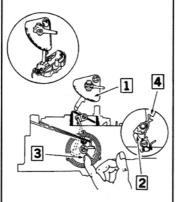
NOTE: PLACE DEGREE SCALE ON CLOSED CHOKE VALVE AND CENTER LEVELING BUBBLE ON GAUGE.

MOVE DEGREE SCALE ONLY TO SPECIFIED ANGLE.

- 2. PLACE CAM FOLLOWER ON SEC-OND STEP OF CAM (NEXT TO HIGH
- 3. CLOSE CHOKE BY PUSHING UP-WARD ON CHOKE COIL LEVER.

NOTE: DO NOT REMOVE CHOKE COV PRIOR PERFORM THIS ADJUSTMENT.
USE RUBBER BAND ON VACUUM
BREAK LEVER TANG TO HOLD
CHOKE VALVE CLOSED.

4. TO ADJUST, BEND TANG ON FAST IDLE CAM UNTIL BUBBLE IS CEN-TERED.



FRONT VACUUM BREAK ADJUSTMENT

NOTE: PLACE DEGREE SCALE ON CLOSED CHOKE VALVE AND CENTER LEVELING BUB-BLE ON GAUGE

- MOVE DEGREE SCALE ONLY TO SPECIFIED ANGLE
- SEAT DIAPHRAGM BY AP-PLYING AN OUTSIDE VACUUM SOURCE. SOME MODELS (VIEW 1) LEAF BUCKING SPRING MUST BE SEATED AGAINST LEVER

LEVER
NOTE: ON DELAY MODELS,
COVER AIR BLEED HOLE WITH
A PIECE OF TAPE. REMOVE
TAPE AFTER ADJUSTMENT.
TURN CHOKE VALVE TOWARD
CLOSED POSITION BY
ROTATING CHOKE COIL LEVER

- COUNTER-CLOCKWISE (HOLD WITH RUBBER BAND).
- TO ADJUST, REMOVE VACUUM BREAK, THEN GRIND OFF WELD THAT HOLDS AD-JUSTING SCREW COVER, RE-MOVE COVER & REPLACE VACUUM BREAK.
- NEXT, TURN ADJUSTING SCREW UNTIL BUBBLE IS

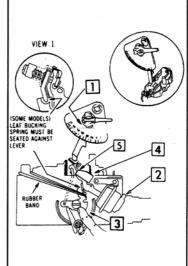


FIG. 9 REAR VACUUM BREAK ADJUSTMENT (SCREW ADJ. TYPE)

NOTE: PLACE DEGREE SCALE ON CLOSED CHOKE VALVE AND CENTER BUBBLE ON GAUGE

MOVE DEGREE SCALE ONLY TO SPECIFIED ANGLE.
SEAT DIAPHRAGM BY APPLY-

- ING AN OUTSIDE VACUUM SOURCE. SOME MODELS: PLUNGER BUCKING SPRING MUST BE COMPRESSED & SEATED.
 - NOTE: ON DELAY MODELS, PLUG END COVER THEN SEAT VACUUM DIAPHRAGM. UNPLUG END COVER AFTER ADJUST-
- TURN CHOKE VALVE TOWARD 3 TURN CHOKE VALVE TOWARD CLOSED POSITION BY ROTATING CHOKE COIL LEVER COUNTER-CLOCKWISE. (HOLD WITH RUBBER BAND).
 TO ADJUST, REMOVE VACUUM BREAK, THEN GRIND OFF ADJUSTING SCREW CAP. REPLACE VACUUM BREAK BREAK

VACUUM BREAK

NEXT, TURN SCREW AT REAR

COVER UNTIL BUBBLE IS CEN-TERED. APPLY SEALER TO SEAL SETTING.

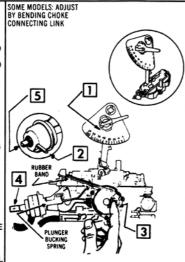


FIG. 10 UNLOADER ADJUSTMENT

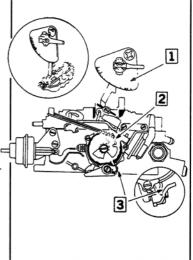
NOTE: PLACE DEGREE SCALE ON CLOSED VALVE AND CEN-TER LEVELING BUBBLE ON

MOVE DEGREE SCALE ONLY TO SPECIFIED ANGLE.

NOTE: INSTALL CHOKE COVER ASSY, IF REMOVED

2. CLOSE CHOKE VALVE BY PUSHING UP ON TANG OF VAC-UUM BREAK LEVER. (HOLD WITH RUBBER BAND). NEXT, MAINTAIN THROTTLE VALVES IN WIDE OPEN POSITION.

IF ADJUSTMENT IS REQUIRED, BEND TANG UNTIL BUBBLE IS



ADJUSTMENT DATA (Cont'd)

FIG. 11

RICH MIXTURE STOP SCREW ADJUSTMENT

NOTE: THIS IS A BENCH ADJUST-MENT WITH LEAN MIXTURE SCREW SET PROPERLY AND AIR HORN REINSTALLED.

- INSERT GAUGE INTO "D"
 SHAPED VENT HOLE TO CONTACT MIXTURE CONTROL
 SOLENOID PLUNGER.
- 2. MEASURE THE SOLENOID PLUNGER TRAVEL BY PRESSING DOWN ON GAUGE AND RELEASING. IT SHOULD BE AS SPECIFIED.
- 3. TO ADJUST, INSERT TOOL (#CT11 or PART #BT-7928) TO HOLE "A" AS SHOWN AND TURN IN OR OUT TO OBTAIN DIMEN-SION.
- 4. INSTALL NEW PLUGS TO HOLE
 "A" (RICH MIXTURE STOP
 SCREW) AND HOLE "B" (LEAN
 MIXTURE SCREW) TO RETAIN
 SETTINGS AND PREVENT FUEL
 VAPOR LOSS.

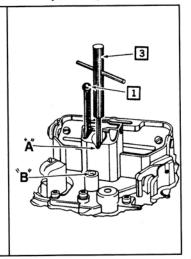


FIG. 12 PUMP ADJUSTMENT (Model M2MC, E Only)

- PLACE PUMP LINKAGE IN SPECIFIED HOLE.
- 2. WITH FAST IDLE CAM OFF CAM FOLLOWER LEVER, TURN THROT-TLE STOP SCREW OUT SO IT DOES NOT TOUCH THROTTLE LEVER.
- MEASURE DIMENSION FROM TOP OF CHOKE VALVE WALL TO TOP OF PUMP ROD.
- 4. TO ADJUST, SUPPORT PUMP LEV-ER AT "A" AND BEND AT NOTCH.

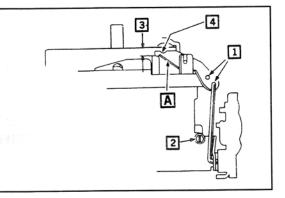


FIG. 13

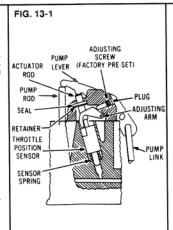
THROTTLE POSITION SENSOR ADJUSTMENT (ON CAR)

NOTE: DO NOT REMOVE SEAL PLUG UNLESS IN DIAGNOSIS, T.P.S. SENSOR IS ADJUSTED CORRECTLY. SINCE THIS IS A CRITICAL ADJUSTMENT, IT MUST BE PERFORMED VERY CAREFULLY & ACCURATELY TO ENSURE PROPER PERFORMANCE & COMPLIANCE WITH EXHAUST EMISSIONS.

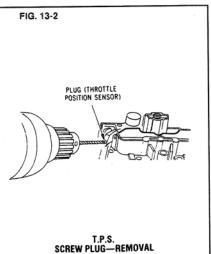
- IF ADJUSTMENT IS REQUIRED (SEE FIGS. 13-1, 13-2), REMOVE PLUG COVERING T.P.S. ADJUSTING SCREW BY DRILLING A 5/64" HOLE IN PLUG TO DEPTH OF 1/16" TO 1/8".
- PLUG TO DEPTH OF 1/16" TO 1/8".

 2. TURN IN NO. 8 × 1/2" SELF TAPPING SCREW, DEEP ENOUGH TO GET A GOOD THREAD BITE IN HOLE.
- 3. USING A SCREWDRIVER, PRY SCREW HEAD AGAINST CASTING TO REMOVE PLUG.
- REMOVE ADJUSTING SCREW & CONNECT A 10 MEG OHM DIGITAL VOLTMETER WITH A 0-2 VOLT RANGE (3 DIGIT READ-OUT) ACROSS (USING JUMPER WIRES WITH TERMINALS ACESS) CENTER & BOTTOM TERMINALS OF T.P.S. CONNECTOR.
- 5. WITH ENGINE STOPPED & IGNITION ON, REINSTALL T.P.S. AD-JUSTING SCREW. TURN SCREW TO OBTAIN SPECIFIED VOLTAGE AT SPECIFIED THROTTLE POSITION WITH A/C OFF. REFER TO MANU-FACTURER'S SERVICE MANUAL FOR VOLTAGE SPECIFICATION.

NOTE: NEW PLUG MUST BE INSTALLED TO MAINTAIN T.P.S. ADJUST-MENT SCREW SETTING.







CDECIEICATIONS DV ADDITOATION

		01 201		9110 DI	VI I FI	CATION				
Year	MODEL	Float Level	Choke Coil Lever	Fast Idle Cam	Vacuum Break Front	Vacuum Break Rear	Unloader	Rich Mixture Screw	Pump Adjustment	ldle¹ Mixture Needle
		Fig. 5	Fig. 6	Fig. 7	Fig. 8	Fig. 9	Fig. 10	Fig. 11	Fig. 12	
	, CHEVROLET, OLDSM				PECIFIC					
1981-80	231 EngU.S. Carb. No. 17081190, 193 Carb. No. 17081191, 196	3/8 5/16 5/16	.120 .120 .120	18° 24.5° 24.5°	28° 21° 28°	24° 31° 24°	38° 38° 38°	1/8 1/8 1/8		2½² 4¾ 2½³
GM TR	UCKS SPECIFICATION	ON I.D.	A							
1981	231 Eng.	3/8	.120	18°	28°	24°	38°	1/8	_	2¾
CHEVE	OLET & PONTIAC S	PECIFIC	ATION I	.D. B						
1984-82 1981 1982-81	229 EngU.S. 229 EngU.S. 267 EngU.S.	3/8 11/32 11/32	.120 .120 .120	20° 20° 20°	27° 25° 25°	1 = 1	38° 38° 40°	1/8 1/8 1/8		1¼ 5 5
GM TR	UCKS SPECIFICATION	ON I.D.	В							
1983-82 1981 1982-81	229 EngU.S. 229 EngU.S. 267 EngU.S.	3/8 11/32 11/32	.120 .120 .120	20° 20° 20°	27° 25° 25°	=	38° 38° 40°	1/8 1/8 1/8	=	1¼ 5 5
BUICK	, CHEVROLET, OLDSM	OBILE 8	PONTI	AC SF	PECIFICA	ATION I	D. C		-	
1987 1987-85 1986-85 1985 1984-81 1984-82	231 EngCan. 231 EngU.S. 231 EngCan. 3.0L Eng. 231 EngCan. 231 EngU.S.	9/32 5/16 9/32 11/32 9/32 5/16	.120 .120 .120 .120 .120 .120	17° 18° 24.5° 17° 24.5° 18°	17° 28° 17° 27° 17° 28°	19° 24° 19° 25° 19° 24°	35° 32° 38° 35° 38° 32°	 1/8	Inner 9/32 Inner 9/32 Inner 1/4	35 - 35 - 35 - 35
GM TR									,	
1983-82	231 EngCan. -U.S.	9/32 5/16	.120 .120	24.5° 18°	17° 28°	19° 24°	38° 32°	1/8	Inner 1/4 —	35
		CDEALEI	CATION	ם מו						
DLDSN	NOBILE & PONTIAC	SPECIFIC	CALION	1.D. D						
1982 1981	260 Eng.—Exc. Pontiac 260 Eng. 260 Eng. 260 Eng.	13/32 13/32 13/32	.120 .120 .120	14° 14° 14°	24° 24° 24°	36° 36° 34°	35° 35° 35°	1/8 1/8 1/8	- -	6% 5% 4
1982 1981 1980	260 Eng.—Exc. Pontiac 260 Eng.	13/32 13/32 13/32	.120 .120 .120	14° 14° 14°	24°	36° 34°	35° 35°	1/8		51/4
1982 1981 1980 BUICK	260 Eng. —Exc. Pontiac 260 Eng. 260 Eng. CHEVROLET, OLDSM 3.0L Eng. -Carb No. 17110337 -Carb No. 17084193, 195 -Carb No. 17082196 -Carb No. 17082183, 186 Carburetor numbers not shown,	13/32 13/32 13/32	.120 .120 .120	14° 14° 14°	24° 24°	36° 34°	35° 35°	1/8	- - - - -	51/4
1982 1981 1980 BUICK 1985-82	260 Eng. —Exc. Pontiac 260 Eng. 260 Eng. , CHEVROLET, OLDSM 3.0L Eng. -Carb No. 17110337 -Carb No. 17083193 -Carb No. 17082196 -Carb No. 17082196 -Carb Nos. 17082183, 186 Carburetor numbers not shown, see footnote 6. 231 EngU.S.	13/32 13/32 13/32 13/32 IOBILE & 5/16 5/16 5/16 5/16	.120 .120 .120 .120 .120 .120 .120 .120	14° 14° 14° 14° AC SF 17° 17° 17° 18°	24° 24° PECIFIC	36° 34° ATION I 25° 25° 28° 19°	35° 35° . D. E 35° 35° 27° 27°	1/8 1/8 1/8 1/8 1/8 1/8 1/8		35 35 35 35 35 35
1982 1981 1980 BUICK 1985-82	260 Eng. —Exc. Pontiac 260 Eng. 260 Eng. , CHEVROLET, OLDSM 3.0L Eng. -Carb No. 17110337 -Carb No. 17084193, 195 -Carb No. 17082196 -Carb No. 17082196 -Carb No. 17082183, 186 Carburetor numbers not shown, see footnote 6. 231 EngU.S. 231 EngExc. Calif. w/Carb. Nos. 17080493, 495 -Calif	13/32 13/32 13/32 13/32 IOBILE 8 5/16 5/16 5/16 5/16 5/16 5/16 5/16 5/1	.120 .120 .120 .120 .120 .120 .120 .120	14° 14° 14° 14° 17° 17° 17° 18° 18° 24.5° 24.5°	24° 24° PECIFICA 27° 27° 23° 21° 24° 28° 21° 21° 21°	25° 25° 28° 19° 28° 24° 30° 35°	35° 35° 35° 35° 35° 35° 27° 27° 27° 27° 27° 32° 38° 38° 38°	1/8 1/8 1/8 1/8 1/8 1/8 1/8	- - - - -	35 35 35 35 35 35 35
1982 1981 1980 BUICK 1985-82	260 Eng. —Exc. Pontiac 260 Eng. 260 Eng. 7 CHEVROLET, OLDSM 3.0L EngCarb No. 17110337 -Carb No. 17084193, 195 -Carb No. 17083193 -Carb No. 17082196 -Carb No. 17082183, 186 Carburetor numbers not shown, see footnote 6. 231 EngU.S. 231 EngU.S. 231 EngExc. Calif. w/Carb. Nos. 17080493, 495 -Calif 231-2 EngCalif.	13/32 13/32 13/32 13/32 OBILE 8 5/16 5/16 5/16 5/16 5/16 5/16 5/16 5/1	.120 .120 .120 .120 .120 .120 .120 .120	14° 14° 14° AC SF 17° 17° 17° 18° 18° 18° 24.5°	24° 24° PECIFICA 27° 27° 23° 21° 24° 28° 21°	36° 34° ATION I 25° 25° 28° 19° 28° 24° 30°	35° 35° 35° 35° 35° 27° 27° 27° 27° 32° 38°	1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8		35 35 35 35 35 35 4444 41/2
982 981 980 BUICK 985-82 983-82 980	260 Eng. —Exc. Pontiac 260 Eng. 260 Eng. , CHEVROLET, OLDSM 3.0L Eng. -Carb No. 17110337 -Carb No. 17084193, 195 -Carb No. 17082196 -Carb No. 17082196 -Carb No. 17082183, 186 Carburetor numbers not shown, see footnote 6. 231 EngU.S. 231 EngExc. Calif. w/Carb. Nos. 17080493, 495 -Calif	13/32 13/32 13/32 13/32 OBILE 8 5/16 5/16 5/16 5/16 5/16 5/16 5/16 5/1	.120 .120 .120 .120 .120 .120 .120 .120	14° 14° 14° 14° 17° 17° 17° 18° 18° 24.5° 24.5°	24° 24° PECIFICA 27° 27° 23° 21° 24° 28° 21° 21° 21°	25° 25° 28° 19° 28° 24° 30° 35°	35° 35° 35° 35° 35° 35° 27° 27° 27° 27° 27° 32° 38° 38° 38°	1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8	- - - - -	35 35 35 35 35 35 4144 41/2
982 981 980 BUICK 985-82 983-82 979 GM TR 983-82 980 979	260 Eng. —Exc. Pontiac 260 Eng. 260 Eng. 260 Eng. , CHEVROLET, OLDSM 3.0L EngCarb No. 17110337 -Carb No. 17084193, 195 -Carb No. 17082196 -Carb No. 17082196 -Carb No. 17082198 -Carb No. 17082183, 186 Carburetor numbers not shown, see footnote 6. 231 EngU.S. 231 EngExc. Calif. w/Carb. Nos. 17080493, 495 -Calif 231-2 EngCalif. UCKS SPECIFICATION 231 EngU.S. 231 EngU.S. 231 EngU.S. 231 EngU.S.	13/32 13/32 13/32 13/32 13/32 13/32 10BILE & 5/16 5/16 5/16 5/16 5/16 5/16 5/16 5/16	. 120 .120 .120 .120 .120 .120 .120 .120	14° 14° 14° 14° 17° 17° 17° 18° 18° 24.5° 24.5° 24.5°	24° 24° PECIFICA 27° 27° 23° 21° 24° 28° 21° 21° 21° 21° 21°	25° 25° 25° 28° 19° 28° 24° 30° 35° 30°	35° 35° 35° 35° 35° 35° 27° 27° 27° 27° 27° 32° 38° 38° 38° 38° 38°	1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8		35 35 35 35 35 35 35 35 35 35

FOOTNOTES:

¹ Number of Turns.

² Carb. No. 17081192, 198 set 3; Carb. No. 17081194 set 2%; Carb. No. 17081197 set 3½.

3 Carb. No. 17081191 set 21/4.

ABBREVIATIONS:

A/T Automatic Transmission Auxiliary Aux. Cal., Calif. California Can. Canada Intermediate
Idle Speed Control Inter. I.S.C. Pri. Primary Sol. Solenoid T.P.S. W.O.T. Throttle Position Sensor Wide Open Throttle

⁴ Carb. No. 17080495 set 4.

⁵ Final adjustment on vehicle.

⁶ Follow information set forth in car service manual or engine compartment decal.

ANGLE DEGREE TO DECIMAL CONVERSION
THE RELATION BETWEEN DECIMAL AND ANGLE READINGS IS NOT EXACT DUE
TO MANUFACTURING TOLERANCES. THIS CHART IS SUUPPLIED FOR THOSE
WHO HAVE ACCESS TO DRILL BITS OR PLUG GAUGES ONLY. NOTE: BE SURE TO
MEASURE BETWEEN UPPER EDGE OF CHOKE VALVE AND WALL OF AIR HORM.
GENERAL MOTORS RECOMMENDS USING AN ANGLE GAUGE FOR BEST OVERALL
PERFORMANCE AND ACCURACY.

ANGLE DEGREES	DECIMAL EQUIV. TOP OF VALUE	ANGLE DEGREES	TOP OF VALUE
5 6 7	.023	33	.203
5	.028	34 35	.211
á	.038	36	227
8	.043	37	.227
10	.049	38	.243
11	.543	39	.251
12	.060	40 41	.260
13 14	.071	42	277
15	.077	43	.277
16	.083	44	.295
17	.090	45	.304 .314
18 19	.095	46 47	.314
20	.110	48	332
21	.117	49	.332
22	.123	50	.350
23	.129	51	.360
24	.136	52	.370
25 26	.142	53 54	.379 .388
27	.157	55	.400
28	.164	56	.408
29	.171	57	.418
30	.179	58	.428
31 32	.187	59 60	.439 .449