## **INSTRUCTION SHEET** OFF VEHICLE CARBURETOR SERVICE ROCHESTER — MODEL 2SE

(4 CYL. 151CID. ENG.)

#### DISASSEMBLY

GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET.

USE THESE PARTS FROM OLD PLUNGER

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENDUGH TO PERMIT CLEANING AND INSPECTION. NOTE: MOST SCREWS HAVE SOME FORM OF LOCK TIGHT ON THEM. LINKAGE CONNECTED TO VACUUM BREAK UNIT NEED ONLY BE UNHOOKED AT VACUUM BREAK END. UNHOOK FAST IDLE CAM ROD WHEN REMOVING BOWL COVER, (FAST IDLE CAM AND SCREW OR NOT REMOVABLE.) TO REMOVE POWER PISTON ASSY. (34) LIGHTLY BOUNCE VACUUM PISTON TO WORK RETAINER OUT OF CASTING. PULL PLASTIC RETAINER (31) OUT, DO NOT PRY OUT THIS WILL DAMAGE SEALING BEADS ON BOWL CASTING. THE IDLE MIXTURE NEEDLE (60) IS SEALED WITH A HARDENED STEEL PLUG. IF NECESSARY TO REMOVE IDLE MIXTURE NEEDLE (MIXTURE NEEDLE HAS BEEN FACTORY ADJUSTED AND SEALED FOR EMISSION CONTROL.) CONTROL.)

#### TAMPER - RESISTANT CHOKE COVER

USING #21 DRILL (159"). DRILL POP RIVET HEAD ENOUGH TO REMOVE HEAD. AFTER HEADS ARE REMOVED USE A DRIFT PUNCH AND SMALL HAMMER TO DRIVE THE REMAINDER OF THE RIVETS OUT OF THE CHOKE HOUSING. REMOVE CHOKE COMPONENTS REPLACEMENT RETAINERS AND SELF TAPPING SCREWS OR POP RIVETS ARE FOUND IN NOMENCLATURE

REF. NO.	REF. NO.
1. HOSE - VACUUM BREAK 2. SCREW - BRACKET 3. SCREW & LOCKWASHER - BRACKET 4. VACUUM BREAK, SOLENOID & BRACKET ASSY. 5. RETAINER (UPPER) - CHOKE ROD 6. BUSHING - CHOKE ROD 7. SCREW - PUMP LEVER 8. LEVER - PUMP 8. LEVER - PUMP 8. LEVER - PUMP 9. SCREW - PUMP 1. LEVER - P	26. NEEDLE & SEAT ASSY. 27. FILTER NUT - FUEL INLET 28. GASKET - FILTER NUT 29. FILTER - FUEL INLET 30. SPRING - FUEL FILTER 31. GUIDE - PUMP DISC. SPRING 32. SPRING - PUMP DISC. BALL 33. BALL - PUMP DISC. 34. FOWER PISTON ASSY.
9. SPACER WASHER - PUMP LEVER	35. SPRING - POWER PISTON 36. JET - PRIMARY
SCREW 10: ROD - PUMP LEVER	37. SCREW (3) - CHOKE RETAINER
11. SCREW (2) - IDLE COMPENSATOR	38. RETAINER (3) - CHOKE COVER
12. IDLE COMPENSATOR	39. ELECTRIC CHOKE COVER ASSY.
13. GASKET - IDLE COMPENSATOR	40. SCREW - CHOKE LEVER
14. SCREW & LOCKWASHER (2) LONG - BOWL COVER	41. LEVER - CHOKE 42. CHOKE SHAFT & ROD ASSY.
15. VENT STACK	43. SCREW & LOCKWASHER (2) -
16. SCREW & LOCKWASHER (1) - BOWL COVER	CHOKE HOUSING 44. HOUSING - CHOKE
17. SCREW & LOCKWASHER (3) - BOWL COVER	45. SCREW & LOCKWASHER (4) - THROTTLE BODY
18. BOWL COVER ASSY.	46. BOWL ASSY.
19. ROD - FAST IDLE CAM	47. GASKET - THROTTLE BODY
20. PUMP ASSY.	48. THROTTLE BODY ASSY.
21. SPRING - PUMP RETURN	49. PLUG - IDLE NEEDLE SEAL (NOT
22. GASKET - BOWL COVER	REPLACED)
23. INSERT - FLOAT BOWL	50. NEEDLE - IDLE ADJUSTING 51. WASHER - IDLE NEEDLE
24. FLOAT ASSY.	51. WASHER - IDLE NEEDLE 52. SPRING - IDLE NEEDLE
25. PIN - FLOAT HINGE	DZ. SPHING - IDLE NEEDLE

### CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED, SOAK PARTS LONG CLEARING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SUAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE A CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON DEPOSITS. RINSE OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. CAUTION: DO NOT SOAK DIAPHRAGM UNITS. SOLENDIDS, FLOAT, ELECTRIC CHOKE, PLASTIC FILLER BLOCK, OR PARTS CONTAINING RUBBER IN ANYTYPE OF CLEANING SOLVENTS. (PLASTIC BUSHINGS USED ON ROD ENDS. WILL WITHSTAND MODALA! CLEANING IN CARBURETOR CLEANING. NORMAL CLEANING IN CARBURETOR CLEANER.)

## REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY, NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS.

### SPECIAL INSTRUCTIONS

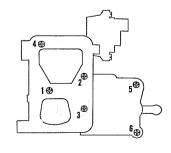
IDLE ADJUSTING NEEDLE (50) - TURN NEEDLE IN UNTIL LIGHTLY SEATED, THEN BACK OUT 3 TURNS.

POWER PISTON ASSY. (34) - PRESS DOWN FIRMLY ON PLASTIC POWER PISTON RETAINER TO MAKE SURE RETAINER IS SEATED IN RECESS OF FLOAT BOWL.

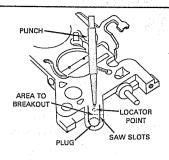
FUEL FILTER (29) - BE SURE TO USE FILTER WITH BUILT IN ROLL OVER CHECK VALVE AND WITH CHECK VALVE FACING OUT. TIGHTEN FILTER NUT (27) TO 18 FT. LBS.

NEEDLE & SEAT ASSY. (28) - WHEN INSTALLING FLOAT BE SURE TO HOOK NEEDLE PULL CLIP OVER EDGE OF FLAT ON FLOAT ARM FACING FLOAT PONTOON. CAUTION: DO NOT HOOK PULL CLIP IN HOLES OF FLOAT ARM.

BOWL COVER INSTALLATION - TIGHTEN BOWL COVER SCREWS IN SEQUENCE AS SHOWN.



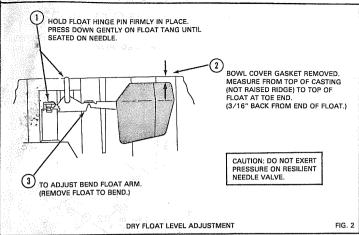
# **ADJUSTMENTS**

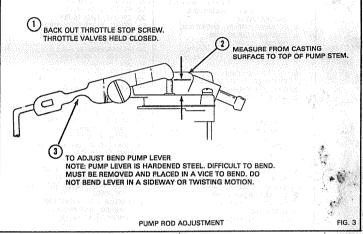


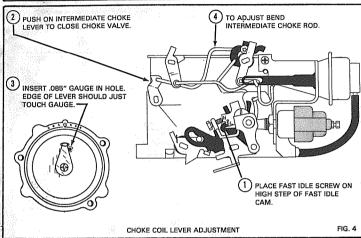
SAW 2 SLOTS AS SHOWN (DO NOT EXTEND MORE THAN 1/8" BEYOND LOCATOR POINT). SUPPORT THROTTLE BODY, THEN PLACE A PUNCH IN THE LOCATOR POINT OF THE THROTTLE BODY, HOLDING PUNCH AT A 45° ANGLE, BREAKOUTTHROTTLE BODY CASTING TO GAIN ACCESS TO THE HARDENED STEEL PLUG. HOLD A CENTER PUNCH VERTICAL DRIVE IT INTO THE STEEL PLUG (HARDENED PLUG WILL BREAK). REMOVE PIECES TO GAIN ACCESS TO IDLE MIXTURE NEEDLE.

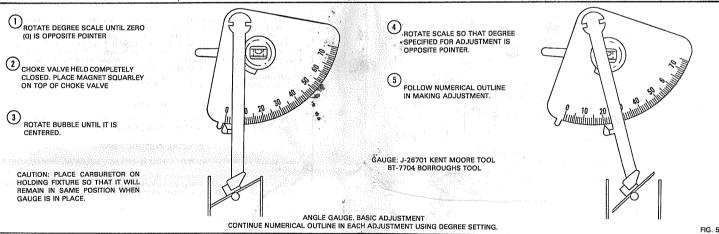
IDLE MIXTURE NEEDLE PLUG REMOVAL

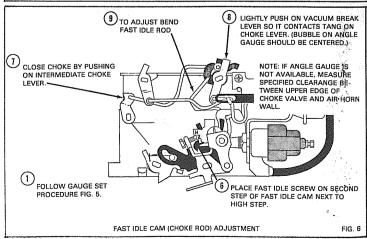
FIG. 1

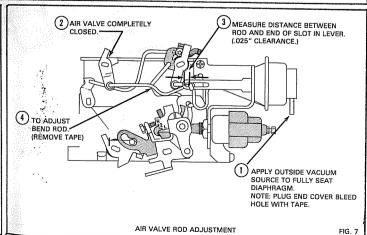


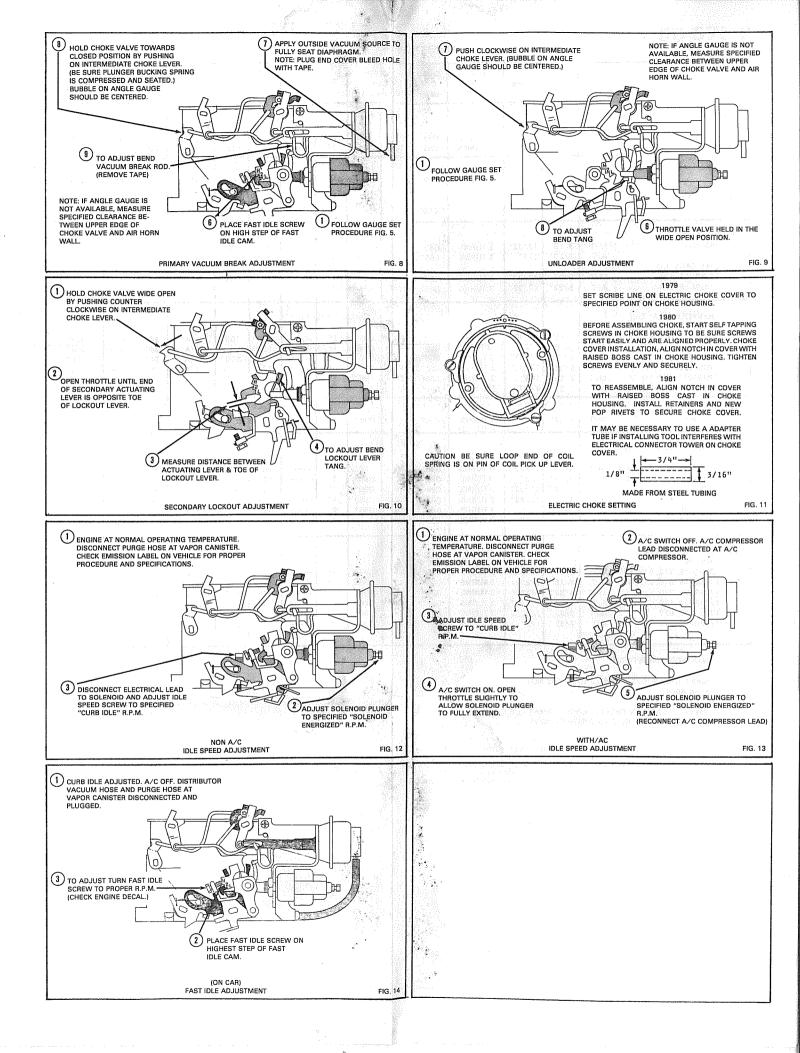












## ADJUSTMENT DATA TABLE

Year	Application	Float Setting		Pump Rod	Fast Idle (Bench)	Choke Coil Lever	Fast Idle Cam Choke Rod		Air Valve Rod		Vacuum Break		Electric Choke Setting	Unloader		Secondary Lockout
1979	GM PASS CAR 151" Eng.					*		•		*						
	49S 49S	M/T A/T	3/16" 3/16"	17/32" 1/2"	3 TURNS 3 TURNS	.085" .085"	. 18° . 18° ≿	.096" .096"	2° 2°	.025" .025"	21° 19°	.117" 103"	1-RICH 2-RICH	32° 32°	.195" .195"	.025" .025"
1980	AMC 151" Eng. 49S	All/T	3/16"	1/2"	3 TURNS	.085"	18°	.096"	10		20°		N/A	32°	.195″	.025"
1981	AMC 151" Eng. 49S	AII/T	732"	1/2"		.085"	25°		1°		19°	.103"	N/A	34°	V154 4412	.025″
1980	BUICK 151" Eng.	·*							7.1 68			s yak sigale v			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	en e
	49S Early	M/T A/T	3/16" 3/16"	17/32" 1/2"	3 TURNS 3 TURNS	.085" .085"	18º 18º	.096" .096"	1º 1º	:	19° 17°	.103"	N/A N/A	36° 36°		.025" .025"
	LATE CARB. NO. 17059623, 625 17059622, 624	M/T A/T	5/32" 5/32"	17/32" 17/32"	3 TURNS 3 TURNS	.085" .085"	18° 18°	.096" .096"	1° 1°		19° 17°	.103"	N/A N/A	36° 36°		.025" .025"
1980	CHEVROLET 151" Eng.			ja vestaja.	) the second second	22.41413								1.36 A.Q	en erafter Vinnighter Vinnighter	evas evillari et elegate e
	Carb. No. 17059615, 617, 619, 621 17059614, 616, 618, 620 17059623, 625 17059622, 624 17080675, 677 17080674, 676	M/T A/T M/T A/T M/T A/T	3/16" 3/16" 5/32" 5/32" 7/32" 7/32"	17/32" 1/2" 17/32" 17/32" 1/2" 1/2"	3 TURNS 3 TURNS 3 TURNS 3 TURNS 3 TURNS 3 TURNS	.085" .085" .085" .085" .085" .085"	18° 18° 18° 18° 18° 18°	.096" .096" .096" .096" .096"	1° 1° 1° 1° 1°		19° 17° 19° 17° 21°	.103"	N/A N/A N/A N/A N/A	36° 36° 36° 36° 32° 32°	.195"	.025" .025" .025" .025" .025" .025"
1980	JEEP 151" Eng. CJ-5 49S	M/T	7/32"	1/2"	3 TURNS	.085"	180	.096"	10		20°		N/A	32°	.195"	.025"
1980	OLDSMOBILE 151" Eng. Carb. No. 17059615, 617, 619, 621 17059614, 616, 618, 620 17059623, 625 17059622, 624 17080675, 677 17080674, 676	M/T A/T M/T A/T M/T A/T	3/16" 3/16" 5/32" 5/32" 7/32" 7/32"	17/32" 1/2" 17/32" 17/32" 1/2" 1/2"	3 TURNS 3 TURNS 3 TURNS 3 TURNS 3 TURNS 3 TURNS	.085" .085" .085" .085" .085"	18° 18° 18° 18° 18°	.096" .096" .096" .096"	1° 1° 1° 1° 1°		19° 17° 19° 17° 21°	.103"	N/A N/A N/A N/A N/A	36° 36° 36° 36° 32° 32°	.195"	.025" .025" .025" .025" .025" .025"
1980	PONTIAC 151" Eng. Carb. No. 17059615, 617, 619, 621 17059614, 616, 618, 620 17059623, 625 17059622, 624 17080675, 677 17080674, 676	M/T A/T M/T A/T M/T A/T	3/16" 3/16" 5/32" 5/32" 7/32" 7/32"	17/32" 1/2" 17/32" 17/32" 1/2" 1/2"	3 TURNS 3 TURNS 3 TURNS 3 TURNS 3 TURNS 3 TURNS	.085" .085" .085" .085" .085"	18° 18° 18° 18°	.096" .096" .096" .096" .096"	1° 1° 1° 1° 1°		19° 17° 19° 17° 21° 19°	.103" 	N/A N/A N/A N/A N/A N/A	36° 36° 36° 36° 32° 32°	.195"	.025" .025" .025" .025" .025" .025"

N/A=NON ADJUSTABLE

\*DRILL GAUGE SIZE IF ANGLE GAUGE IS NOT AVAILABLE.

REFER TO LABEL IN ENGINE COMPARTMENT FOR CORRECT TUNE-UP PROCEDURE AND SPECIFICATIONS.