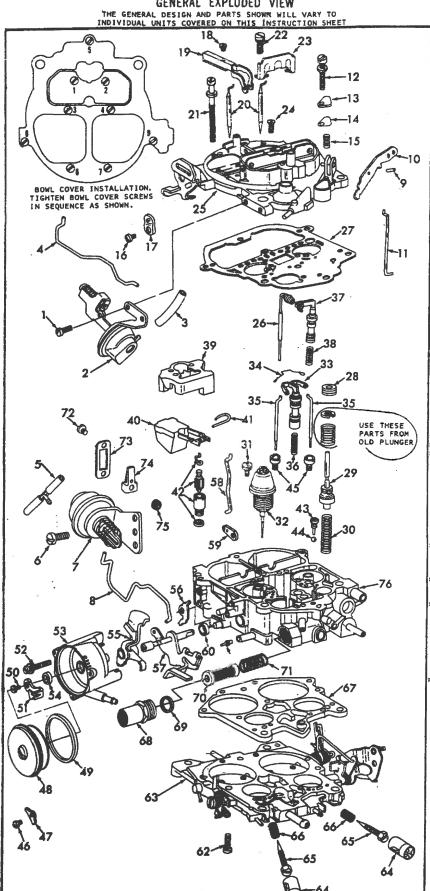
50-505-3 Print d in U.S.A.

INSTRUCTION SHEET 50-505-3 **OFF VEHICLE CARBURETOR SERVICE** ROCHESTER MODELS M4MC, M4MCA, M4MEA

GENERAL EXPLODED VIEW



DISASSEMBLY

DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. NOTE: PUMP LEVER PIN (9) CAN BE DRIVEN IN UNTIL IT RELEASES PUMP LEVER (10). BOWL COVER SCREWS (24) ARE LOCATED INSIDE OF THE AIR HORN. ON MODELS WITH AUXILIARY METERING ROD (26). PUSH TOP OF ROD TO ONE SIDE TO UNNOOK IT FROM ITS HOLDER BEFORE REMOVING BOWL COVER GASKET (27). AMEROID OR FILLER SPOOL METERING ROD ASSY. (32) IS FRAGILE AND SHOULD BE HANDLED GENTLY. THE UNITS ARE FACTORY-ADJUSTED AND EXTREMELY CRITICAL. NO ADJUSTMENT SHOULD BE ATTEMPTED. REPLACED WITH A SPACER ON 1976 MODELS. POWER PISTON ASSYS. (33)(37) CAN BE REMOVED BY CAREFULLY PRYING OUT OR BY BOUNCING PISTON. CAUTION: ON MODELS USING A MAIN AND AUXILIARY POWER PISTON, BE SURE AND MARK POWER PISTON SPR:NGS (36)(38) AS THEY ARE REMOVED. THEY ARE NOT INTERCHANGEABLE. PRIMARY MAIN JETS (45) ARE THE ONLY JETS REMOVEABLE. IDLE LIMITER CAPS (64) CAN CAREFULLY BE REMOVED BY CUTTING OFF WITH PLIERS. NO REPLACEMINT CAPS ARE NECESSARY AS A BARE MIXTURE NEEDLE IS SUFFICIENT TO INDICATE THAT THE MIXTURE HEEDLE IS SUFFICIENT TO INDICATE THAT THE MIXTURE HEEDLE (55) TURN EACH NEEDLE IN AND COUNT THE NUMBER OF TURNS IT TAKES TO SEAT EACH NEEDLE (RECORD). 1976 MODELS HAVE A.P.T. ADJUSTMENT SCREW LOCATED DIRECTLY IN FRONT OF POWER PISTON. NO ATTEMPT SHOULD BE MADE TO READJUST. FACTORY ADJUSTED TO MEET EMISSION REQUIREMENTS.

NOMENCLATURE			
REF.		REF	-
NO.	i):	NO.	
1.	SCREW (2)~FRONT VACUUM BREAK	×38.	SPRING-AUX. POWER PISTO
2.	FRONT VACUUM BREAK ASSY.	39.	INSERT - FLOAT BOWL
3.	HOSE-FRONT VAC. BREAK		FLOAT & LEVER ASSY
	UNIT	M41.	HINGE PIN - FLOAT
	CONNECTING ROD-FRONT VAC. BREAK		NEEDLE, SEAT, & GASKET ASSY.
	HOSE-REAR VAC. BREAK		PLUG-PUMP DISC. BALL
	SCREW (2)-REAR VAC. BREAK		BALL - PUMP DISC.
	REAR VACUUM BREAK ASSY.		JET (2) - PRIMARY MAIN
	CONNECTING ROD-REAR VAC. BREAK		SCREW (3)-CHOKE COVER RETAINER
	PIN-PUMP LEVER		RETAINER (3)-CHOKE COVE
	LEVER - PUMP		CHOKE COVER ASSY.
	ROD - PUMP		GASKET - CHOKE COVER
12.	SCREW & LOCKWASHER- VENT		SCREW - STAT COIL LEVER
	COVER		LEVER - STAT COIL
	COVER - VENT VALVE	52.	SCREW & WASHER-CHOKE
14.	GASKET - COVER SPRING - VENT VALVE		HOUS ING
	SCREW - CHOKE LEVER		CHOKE HOUSING
	LEVER - CHOKE SHAFT		SEAL-CHOKE HOUSING CAM - FAST IDLE
	SCREW-SEC. METERING ROD		CAM - SECONDARY LOCKOUT
10.	HOLDER	57.	
10	HOLDER-SEC. METERING RODS	١,,,	CHOKE
	METERING ROD (2)-SECONDARY	5.8	ROD - CHOKE
	SCREW & LOCKWASHER (2)-		LEVER-INTERMEDIATE CHOKE
	BOWL COVER (LONG)		SEAL-INTERMEDIATE CHOKE
22.	SCREW & LOCKWASHER (4)	1	SHAFT
	BOWL COVER	61.	TUBE - VACUUM PASSAGE
23.	BAFFLE - AIR	62.	SCREW & LOCKWASHER (2) -
24.	SCREW (2) - BOWL COVER	ĺ	THROTTLE BODY
	(TAPERED HEAD)	63.	THROTTLE BODY ASSY.
25.	BOWL COVER ASSY.	64.	CAP (2) - IDLE LIMITER
26.	METERING ROD'(1) -	65.	NEEDLE (2)-IDLE ADJUSTIN
	AUXILIARY	66.	SPRING (2) - IDLE ADJ.
27.	GASKET - BOWL COVER		NEEDLE
28.	SPACER - PUMP STEM		GASKET - THROTTLE BODY
	PUMP ASSY.		FILTER NUT-FUEL INLET
	SPRING - PUMP RETURN		GASKET-FILTER NUT
	SCREW (2)-ANEROID ASSY.		FILTER - FUEL
	ANEROID ASSY. (SPACER 1976)		SPRING - FUEL FILTER
	POWER PISTON ASSYMAIN	72.	SCREW (2) - COVER
	SPRING - METERING ROD	~73.	COVER - IDLE COMPENSATOR
	METERING ROD (2)-MAIN	-74.	IDLE COMPENSATOR ASSY.
	SPRING-MAIN PISTON ASSY. POWER PISTON ASSY		GASKET - IDLE COMPENSATO
	AUXILIARY	76.	FLOAT BOWL ASSY
# IT	EMS NOT NORMALLY FOUND ON L MODELS.		

CLEANING

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK

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 OB
SCURE AREAS. CAUTION: DO NOT SOAK FILLER SPOOL OR ANERGID

ASSY. (32), FLOAT (40), DIAPHRAGM UNITS (2) (7), OR PARTS

MADE OF RUBBER OR PLASTIC IN CLEANING SOLVENTS. DO NOT SAND,

WIRE BRUSH, OR FILE ON TEFLON-COATED PARTS.

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUST-MENTS NECESSARY FOR CARBURETOR BEING SERVICED.

SPECIAL INSTRUCTIONS

SPECIAL INSTRUCTIONS SEE NEXT PAGE.

ADJUSTMENTS

SPECIAL INSTRUCTIONS

FUEL FILTER NUT & GASKET (68) (69)- INSTALL AND TIGHTEN SECURELY (18 FT. LBS.). DO NOT OVER-TIGHTEN.

IDLE ADJUSTING NEEDLES (65)- TURN EACH NEEDLE IN UNTIL LIGHTLY SEATED, THEN BACK OUT THE NUMBER OF TURNS COUNTED AT DISASSEMBLY (ALTERNATE 3-4 TURNS OUT).

SEALS, INTERMEDIATE CHOKE SHAFT (60) (54)- SEAL (60) INSTALL WITH LIP FACING OUT. SEAL (54) INSTALL WITH LIP FACING IN.

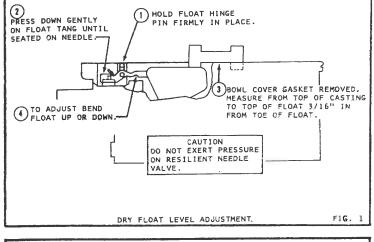
CHOKE COVER ASSY. (48)- DO NOT INSTALL COVER UNTIL CHOKE LINKAGE ADJUSTMENTS ARE MADE. CAUTION: ELECTRIC CHOKE MODELS DO NOT USE A CHOKE COVER GASKET (49) BETWEEN THE ELECTRIC CHOKE ASSY. AND HOUSING

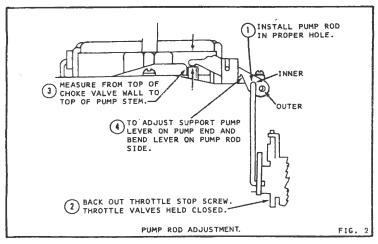
FLOAT INSTALLATION- INSTALL FLOAT BY SLIDING FLOAT LEVER UNDER PULL CLIP FROM FRONT TO BACK, INSTALL FLOAT PIN (DO NOT INSTALL PULL CLIP IN HOLES OF FLOAT ARM).

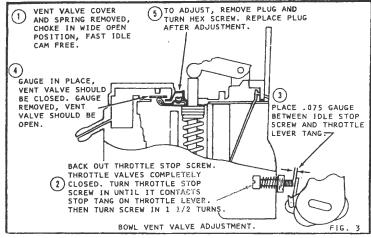
POWER PISTON ASSYS. (33) (37)- PRESS DOWN FIRMLY ON PLASTIC POWER PISTON RETAINER TO BE SURE IT IS FLUSH WITH TOP OF BOWL CASTING.

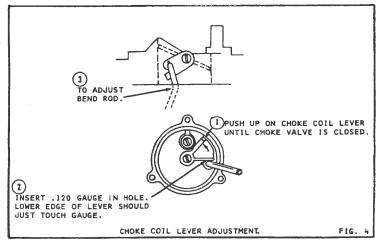
BOWL COVER INSTALLATION-TIGHTEN BOWL COVER SCREWS IN SEQUENCE AS SHOWN.(SEE EXPLODED VIEW).

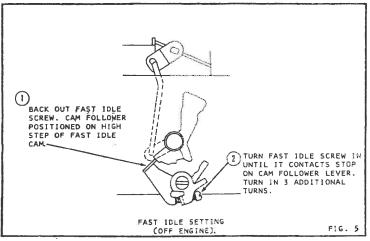
REFER TO DECAL IN ENGINE COMPARTMENT FOR CORRECT TUNE UP PROCEDURE AND SPECIFICATIONS.

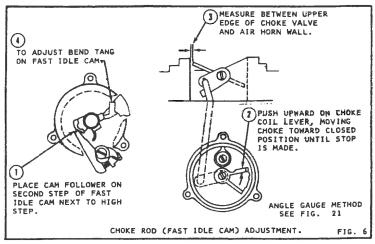


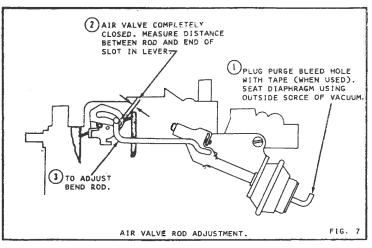


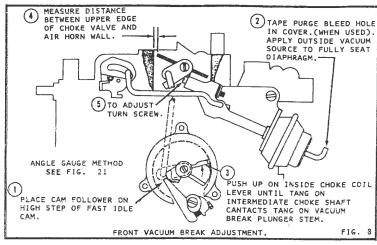


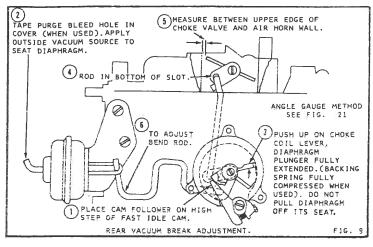


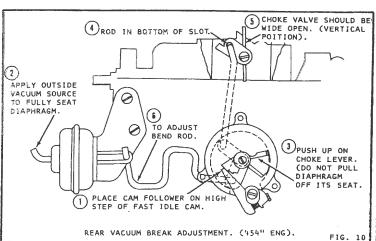


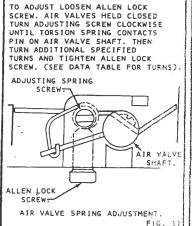


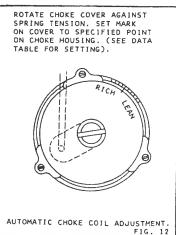


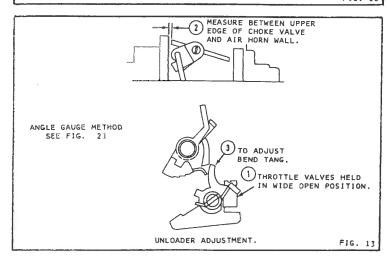


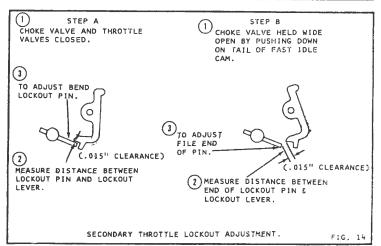


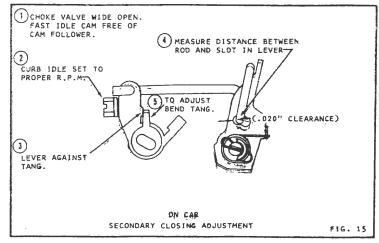


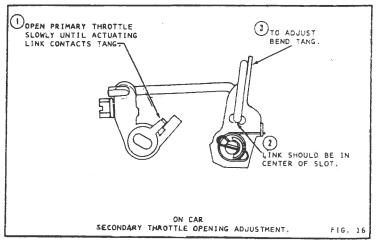


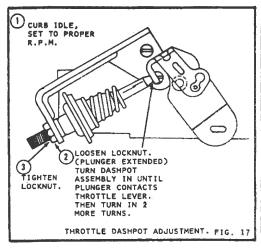


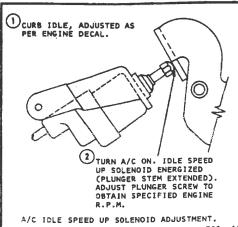


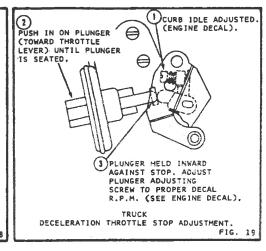


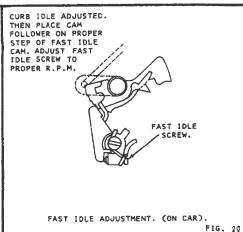








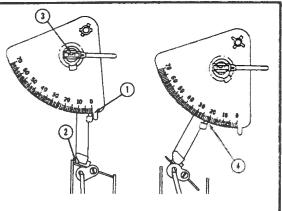




CAUTION: PLACE CARBURETOR ON HOLDING FIXTURE SO THAT IT WILL REMAIN IN SAME POSITION WHEN GAUGE IS IN PLACE.

- 1. ROTATE DEGREE SCALE UNTIL ZERO (0) IS OPPOSITE POINTER.
 2. CHOKE VALVE HELD COMPLETLY CLOSED.
- 2. CHOKE VALVE HELD COMPLETLY CLOSED. PLACE MAGNET SQUARLEY ON TOP OF CHOKE VALVE.
- 3. ROTATE BUBBLE UNTIL IT IS CENTERED. 4. ROTATE SCALE SO THAT DEGREE SPECI-FIED FOR ADJUSTMENT IS OPPOSITE POINT-FR.
- 5. FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENT, INSTEAD OF MEASURING GAP AT EDGE OF CHOKE VALVE.MAKE ADJUST-MENT TO BRING BUBBLE BACK TO CENTER POSITION.

GAUGE: J-26701 KENT MOORE TOOL BT-7704 BORROUGHS TOOL



ANGLE GAUGE METHOD
(USE WITH REGULAR ADJUSTMENT OUTLINE)

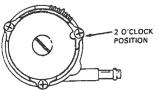
FIG. 21

1980 SPECIAL INSTRUCTIONS.

CAREFULLY ALIGN A #21 DRILL (.159") ON POP RIVET HEAD AND DRILL ENOUGH TO REMOVE RIVET HEAD. DRILL ALL 3 RIVET HEADS. USE A DRIFT PUNCH AND HAMMER. DRIVE THE REMAINDER OF RIVETS OUT OF THE CHOKE HOUSING. REMOVE CHOKE COMPONENTS. REPLACEMENT RETAINERS AND SELF TAPPING SCREWS ARE FOUND IN REPAIR KIT. BEFORE ASSEMBLING CHOKE, START SELF TAPPING SCREWS

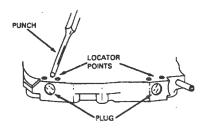
BEFORE ASSEMBLING CHOKE, START SELF TAPPING SCREWS IN CHOKE HOUSING TO BE SURE SCREWS START EASILY AND ARE ALIGNED PROPERLY.

CHOKE COVER INSTALLATION. ALIGN NOTCH IN COVER WITH RETAINER TAB (2 O'CLOCK POSITION). TIGHTEN SCREWS EVENLY AND SECURELY.



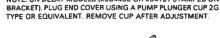
REMOVING & REPLACING TAMPER RESISTANT CHOKE COVER

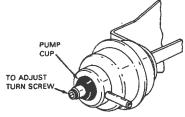
SUPPORT THROTTLE BODY. THEN PLACE A PUNCH BETWEEN THE TWO LOCATOR POINTS IN THROTTLE BODY. BREAK OUT THROTTLE BODY TO GAIN ACCESS TO THE IDLE MIXTURE NEEDLE, DRIVE OUT HARDENED STEEL PLUG COVERING MIXTURE NEEDLE. HARDENED PLUG WILL SHATTER (PLUG WILL NOT BE REPLACED). REMOVE IDLE ADJUSTING NEEDLE USING PROPER DEEP SOCK.



IDLE MIXTURE NEEDLE PLUG REMOVAL

FOLLOW PROCEDURE IN FIG. 9, & FIG. 21.
TO ADJUST USE A 1/8" HEX WRENCH TURN SCREW IN REAR COVER UNTIL BUBBLE IS CENTERED.
NOTE: ON DELAY MODELS (#634433 OR #64797 STAMPED ON BRACKET). PLUG END COVER USING A PUMP PLUNGER CUP 2G





REAR VACUUM BREAK ADJUSTMENT (SCREW ADJUSTMENT TYPE)

