# INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE ROCHESTER MODELS M4MC-M4ME

### 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

### 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: TO REMOVE PUMP LEVER (8) JUST DRIVE PIN IN FAR ENOUGH TO RELEASE LIVER, BOWL COVER SCREWS (18) ARE INSIDE THE AIR HORN. DO NOT REMOVE BRASS TUBES FROM BOWL COVER. CAREFULLY PRY UP OR BOUNCE POWER PISTON ASSY, CZI TO RELEASE PLASTIC LOCK RING HOLDING IT IN PLACE. A.P.T. ADJUSTMENT SCREW LOCATED DIRECTLY IN RIGHT OF POWER PISTON. NO ATTEMPT SHOULD BE MADE TO READJUST OR REMOVE ADJUSTING SCREW. FACTORY ADJUSTED TO MEET EMISSION REQUIREMENTS. FOR REMOVAL OF TAMPER RESISTANCE CHOKE COVER SEE FIG ( 1 ). TO REMOVE IDLE MIXTURE NEEDLE PLUGS SEE FIG ( 2 ).

### NOMENCLATURE

REF. NO.	REF. NO.
NO.  1. SCREW (2) - THROTTLE LEVER ACTUATOR 2. THROTTLE LEVER ACTUATOR ASSY. 3. SCREW (2) - REAR VAC. BREAK 4. REAR VAC. BREAK ASSY. 5. LINK - REAR VAC. BREAK 6. SCREW (2) - FRONT VAC. BREAK 7. FRONT VAC. BREAK 8. LEVER - PUMP 10. ROO - PUMP 11. SCREW - CHOKE LEVER 12. LEVER - PUMP 11. SCREW - CHOKE LEVER 13. ROO - CHOKE 14. SCREW - SEC. METERING ROD HOLDER 15. HOLDER - SEC. METERING ROD 16. METERING ROO (2) - SECONDARY 17. SCREW 61 LOCKWASHER - BOWL COVER 18. SCREW (2) - BOWL COVER (TAPERED HEAD) 19. BOWL COVER ASSY. 20. RETAINER - PUMP STEM SEAL 21. SEAL - PUMP STEM (1960 UP) 22. GASKET - BOWL 23. PUMP PLUNGER ASSY. 24. SPRING - PUMP RETURN 25. BAFTLE - BOWL COVER 26. SKET - BOWL COVER 27. SPRING - PUMP RETURN 28. BAFTLE - BOWL COVER 29. BOWL COVER ASSY. 29. SPRING - PUMP RETURN 29. BAFTLE - BOWL COVER 20. BRING - PUMP RETURN 20. BAFTLE - PUMP WELL 20. BUSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 20. BUSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 26. MISSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 26. MISSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 26. MISSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 35. MISSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 35. MISSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 35. MISSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 36. MISSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 36. MISSERT - ANDRIOD CAVITY 35. SAFTLE - PUMP WELL 36. MISSERT - ANDRIOD CAVITY 35. SCREW - SAFTLE - SAF	NO.  32. FLOAT & LEVER ASSY. 33. HINGE PIN - FLOAT 34. NEEDLE, SEAT & GASKET ASSY. 35. PLUG - PUMP DISC, BALL 36. BALL - PUMP DISC, BALL 37. JET (2) - MAN METERING 38. SCREW/RIVET (3) - RETAINER 39. RETAINER (3) - CHOKE COVER 40. CHOKE COVER ASSY. 41. GASKET - CHOKE COVER (HOT AIR CNLY) 42. SCREW & LOCKWASHER - CHOKE HOUSING 43. CHOKE HOUSING ASSY. 44. SCREW - STAT CORL LEVER 51. LEVER - STAT CORL 54. SCREW - STAT CORL LEVER 54. SCREW - STAT CORL 54. SEAL - CHOKE HOUSING 55. SEAL - CHOKE HOUSING 56. LEVER - NETERIMEDIATE CHOKE 50. CAM - SECONDARY LOCKOUT 51. TUBE - VAC, PASSAGE 52. SEAL - INTERMEDIATE CHOKE 53. SCREW & LOCKWASHER (3) - THROTTLE BOOY 54. FLOAT BOOK ASSY. 56. GASKET - THROTTLE BOOY 56. FILTER NUT - FUEL INLET 57. GASKET - FILTER NUT
27. POWER PISTON ASSY, 28. SPRING - METERING ROD 29. METERING ROD (2) - PRIMARY 30. SPRING - POWER PISTON 31. INSERT - FLOAT BOWL	58. FILTER - FUEL 59. SPRING - FILTER 60. PLUG (22) - IDLE NEEDLE (NOT REPLACED) 61. NEEDLE & SPRING ASSY, (2) - IDLE ADJ. 62. THROTTLE BODY ASSY.

### 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 TRIGHTILE BORES ARE FREE OF ALL CARBON DEPOSITS. RINSE OFF IN MAKE CERTAIN LESON OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. CAUTION: DO NOT SOAK DIAPHRAGM UNITS, SOLVENOIDS, FLOAT, ELECTRIC CHOKE OR PARTS CONTAINING RUBBER OR PLASTIC IN CLEANING SOLVENTS.

### REASSEMBLY

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

## SPECIAL INSTRUCTIONS

IDLE ADJUSTING NEEDLES (61) - TURN EACH NEEDLE IN UNTIL LIGHTLY SEATED, THEN BACK OUT 3-4 YURNS, (FOLLOW VEHICLE MANUFACTURERS PROCEDURED TO COMPLETE IDLE AD-JUSTMENT ON CAR.)

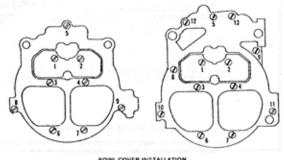
FUEL FILTER (98) - BE SURE TO USE FILTER WITH BUILT IN ROLL OVER CHECK VALVE AND WITH CHECK VALVE FACING OUT, TIGHTEN FILTER NUT TO 18 FT, LBS.

INTERMEDIATE CHOKE SEALS (48), (52) - SEAL (52) LIP OF SEAL IS FACING OUT AND SEAL (48) LIPS OF SEAL IS FACING IN.

CHOKE COVER GASKET (41) - DO NOT USE GASKET WITH ELECTRIC CHOKE COVER.

POWER PISTON AND METERING ROD INSTALLATION, BE CAREFUL TO PROPERLY POSITION METERING RODS IN METERING JETS AND THE PLASTIC RETAINER FOR PISTON IS PROPERLY LOCKED IN PLACE.

PUMP WELL BAFFLE (25) - SLOT IN BAFFLE GOES TO BOTTOM OF SLOT IN PUMP WELL.



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

# ADJUSTMENTS

### 1980-81

1980-81
CAREFULLY ALIGN A #21 DRILL (159") ON POP RIVET HEAD AND DRILL ENOUGH TO REMOVE RIVET HEAD.
DRILL ALL 3 RIVET HEADS. USE A DRIET PUNCH AND HAMMER, DRIVE THE REMAINDER OF RIVETS OUT OF
THE CHOKE HOUSING. REMOVE CHOKE COMPONENTS. REPLACEMENT RETAINERS AND SELF TAPPING
SCREWS OR POP RIVETS ARE FOUND IN REPAIR KIT.

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

CHOKE COVER INSTALLATION. ALIGN NOTCH IN COVER WITH RETAINER TAB (20'CLOCK) POSITION. TIGHTEN SCREWS EVENLY AND SECURELY.

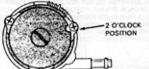
1981

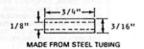
TO REASSEMBLE ALIGN NOTCH IN COVER WITH RETAINER TAB (20'CLOCK) POSITION.

1981

TO REASSEMBLE ALIGN NOTCH IN COVER WITH RETAINER TAB (20'CLOCK POSITION). CAUTION: BE SURE LOOP END OF COIL SPRING IS ON PIN OF COIL PICK UP LEVER, INSTALL RETAINERS AND NEW POP RIVETS TO SECURE CHOKE COVER.

IT MAY BE NECESSARY TO USE AN ADAPTER (TUBE) IF INSTALLING TOOL INTERFERES WITH ELECTRICAL CONNECTOR TOWER ON CHOKE COVER.



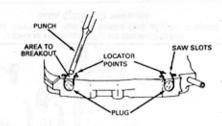


REMOVING & REPLACING TAMPER RESISTANT CHOKE COVER

FIG. 1

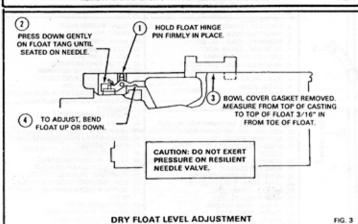
### IDLE MIXTURE NEEDLE PLUG REMOVAL

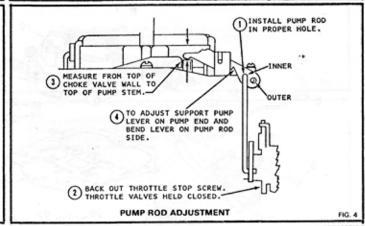
SAW 2 SLOTS AS SHOWN (DO NOT EXTEND MORE THAN 1/8" BEYOND LOCATOR POINTS). SUPPORT THROTTLE BODY, THEN PLACE A PUNCH BETWEEN THE TWO LOCATOR POINTS IN THROTTLE BODY. HOLDING PUNCH AT 45° ANGLE BREAK OUT THROTTLE BODY CASTING TO GAIN ACCESS TO THE HARDENED STEEL PLUG, HOLD A CENTER PUNCH VERTICAL DRIVET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



IDLE MIXTURE NEEDLE PLUG REMOVAL

FIG. 2

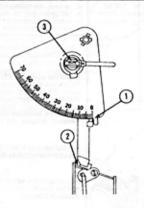




CAUTION: PLACE CARBURETOR ON HOLDING FIXTURE SO THAT IT WILL REMAIN IN SAME POSITION WHEN GAUGE IS IN PLACE



- 2. CHOKE VALVE HELD COMPLETELY CLOSED. PLACE MAGNET SQUARELY ON TOP OF CHOKE VALVE
- 3. ROTATE BURBLE UNTIL IT IS CENTERED.



- 4. ROTATE SCALE SO THAT DEGREE SPECIFIED FOR ADJUSTMENT IS OPPOSITE POINTER.
- FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENT.

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

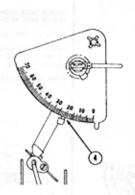


FIG. 6

### ANGLE GAUGE BASIC ADJUSTMENT

CONTINUE NUMERICAL OUTLINE IN EACH ADJUSTMENT USING DEGREE SETTING.

