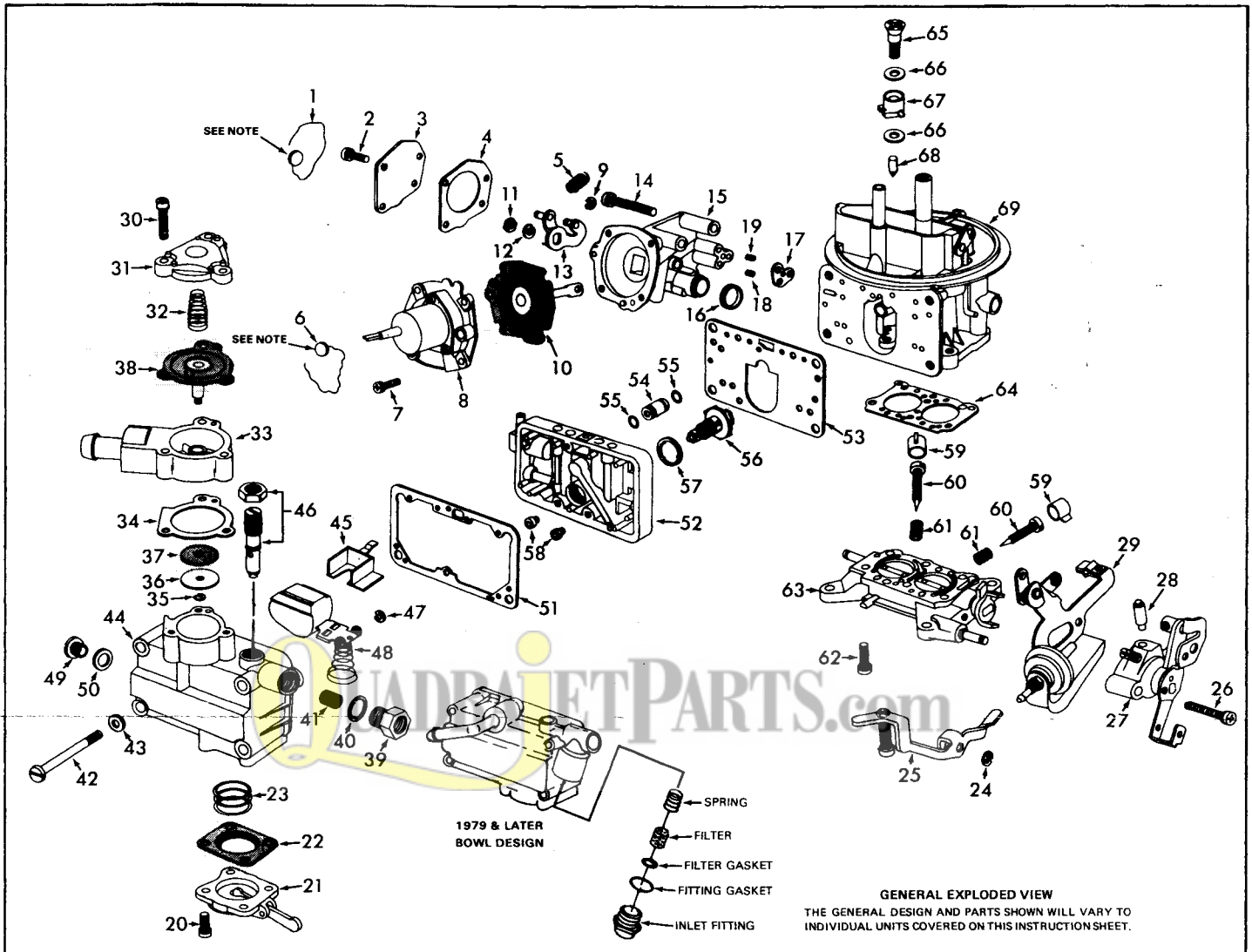


# INSTRUCTION SHEET

## OFF VEHICLE CARBURETOR SERVICE

### HOLLEY MODEL - 2300 EG



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

#### 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: WHEN REMOVING GOVERNOR BY PASS JETS A AND B (18), (19), RECORD SIZE AND LOCATION FOR PROPER REASSEMBLY. (1982 TAMPERPROOF IDLE MIXTURE SCREW REMOVAL SEE FIG. 8.)

#### 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 AND VARNISH 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 PARTS CONTAINING RUBBER MATERIALS OR PARTS SUCH AS (8), (10), (16), (46), (48), (56), IN CLEANING SOLVENTS.

#### REASSEMBLY

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

#### SPECIAL INSTRUCTIONS

THROTTLE BODY SCREWS (62)-TIGHTEN IN THREE STAGES CROSSWISE TO ARRIVE AT THE CORRECT TORQUE. (50 INCH POUNDS)

IDLE ADJUSTING SCREWS (60)-TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT 2 1/2 TURNS. (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME). (1982 SEE FIG. 8.)

ENRICHMENT VALVE (56)-TORQUE TO 100 INCH POUNDS.

O-RINGS-LIGHTLY LUBRICATE FOR EASIER INSTALLATION.

FUEL BOWL (44)-BEFORE INSTALLING, MAKE DRY FLOAT LEVEL ADJUSTMENT.

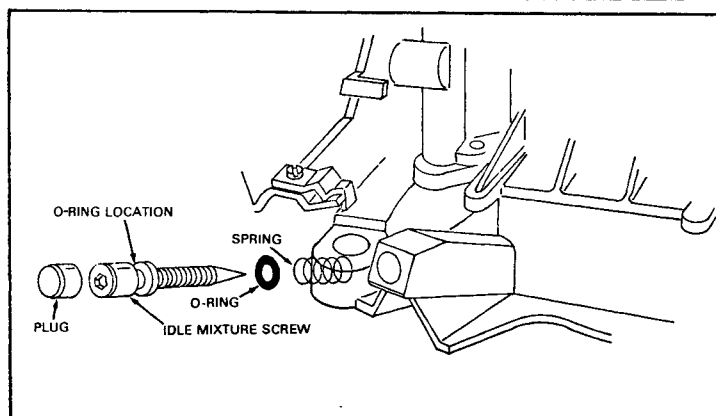
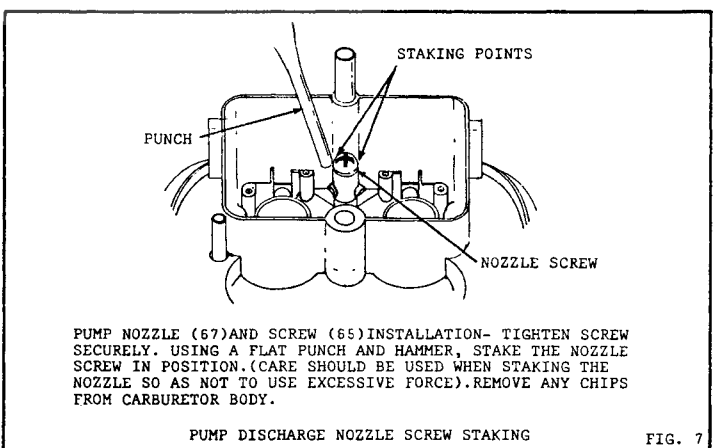
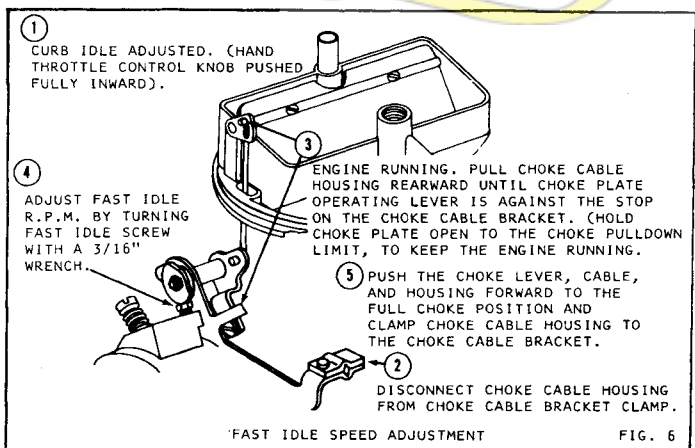
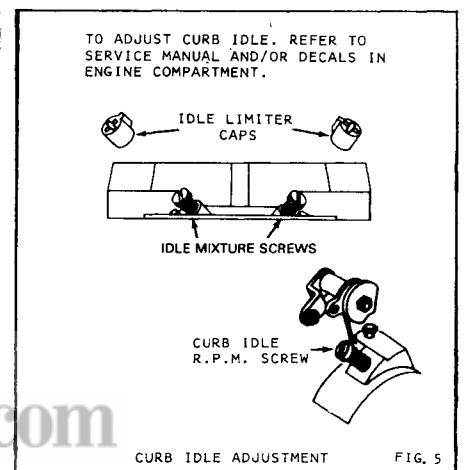
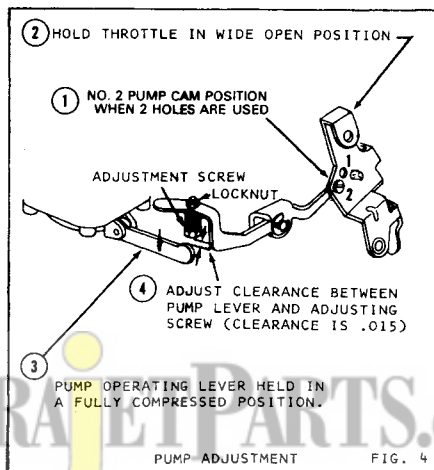
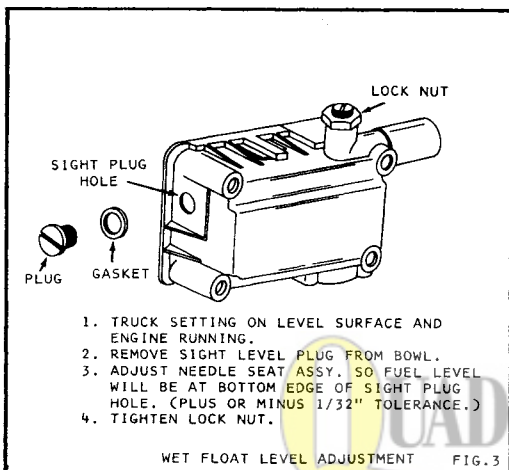
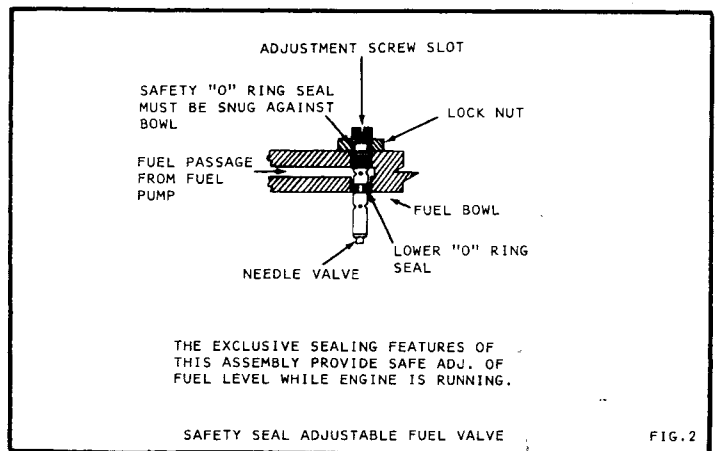
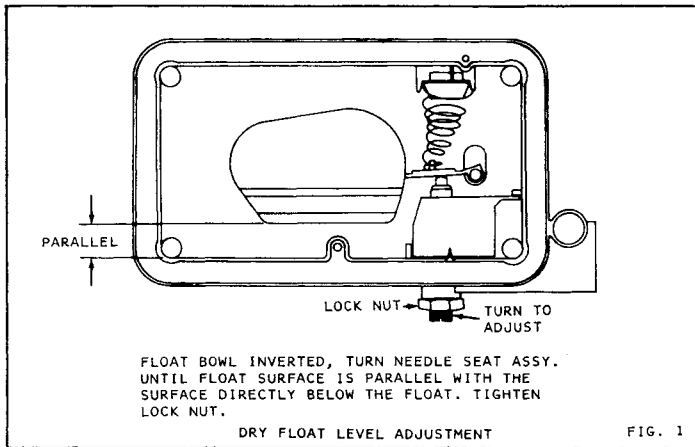
BOWL SCREWS AND GASKETS (42), (43)-INSTALL GASKETS ON SCREWS, INSTALL AND TORQUE EVENLY IN STAGES TO 50 INCH POUNDS.

NOTE: ITEM NO. 1 & 6 IS NOT A KIT SERVICE REPLACEMENT PART

#### NOMENCLATURE

REF. NO.	REF. NO.
1. SEAL & WIRE - COVER	34. GASKET - HOUSING
2. SCREW & LKWSHR. (4) - COVER	35. E CLIP - BOWL VENT VALVE
3. COVER - GOVERNOR HOUSING	36. WASHER - VENT VALVE
4. GASKET - COVER	37. VALVE - VENT
5. SPRING - GOVERNOR	38. DIAPHRAGM - VENT VALVE
6. SEAL & WIRE - DIAPHRAGM COVER	39. FITTING - FUEL INLET
7. SCREW & LKWSHR. (4) - DIAPHRAGM COVER & SOLENOID ASSEMBLY	40. GASKET - FITTING
8. COVER ASSY. - DIAPHRAGM & SOLENOID	41. SCREEN - FUEL INLET
9. E CLIP - DIAPHRAGM STEM RETAINER	42. SCREW (4) - FUEL BOWL
10. DIAPHRAGM ASSEMBLY	43. GASKET (4) - FUEL BOWL SCREWS
11. NUT - GOVERNOR LEVER	44. FUEL BOWL ASSY.
12. LOCKWASHER - GOVERNOR LEVER	45. BAFFLE PLATE
13. LEVER - GOVERNOR	46. NEEDLE & SEAT ASSY.
14. SCREW & LKWSHR. (3) - GOV. HOUSING	47. E CLIP - FLOAT RETAINER
15. HOUSING ASSEMBLY - GOVERNOR	48. FLOAT & SPRING ASSY.
16. SEAL - GOVERNOR HOUSING	49. PLUG - FUEL LEVEL
17. GASKET - GOVERNOR HOUSING	50. GASKET - PLUG
18. JET A - GOVERNOR HOUSING	51. GASKET - FUEL BOWL
19. JET B - GOVERNOR HOUSING	52. METERING BLOCK ASSY.
20. SCREW & LKWSHR. (4) - COVER	53. GASKET - METERING BLOCK
21. COVER ASSY. - PUMP DIAPHRAGM	54. CONNECTOR - PUMP CHANNEL
22. DIAPHRAGM - PUMP	55. O RING (2) - CONNECTOR
23. SPRING - DIAPHRAGM	56. VALVE - ENRICHMENT (2 STAGE)
24. E CLIP - LEVER	57. GASKET - ENRICHMENT VALVE
25. LEVER ASSEMBLY - PUMP	58. JETS (2) - MAIN
26. SCREW (2) - THROTTLE OPERATING SHAFT HOUSING	59. CAP (2) - IDLE LIMITER
27. HOUSING ASSY. - THROTTLE OPERATING SHAFT	60. SCREW (2) - IDLE ADJUSTING
28. PLUNGER & SCREW - FAST IDLE	61. SPRING (2) - IDLE ADJUSTING SCREW
29. BRACKET ASSY. - CHOKE LEVER, DASHPOT	62. SCREW & LKWSHR. (6) - THROTTLE BODY
30. SCREW & LKWSHR. (3) - BOWL VENT ASSY. (CALIF.)	63. THROTTLE BODY ASSY.
31. COVER - VENT ASSEMBLY	64. GASKET - THROTTLE BODY
32. SPRING - DIAPHRAGM	65. SCREW - PUMP DISCHARGE NOZZLE
33. HOUSING ASSEMBLY - BOWL VENT	66. GASKET (2) - PUMP DISCHARGE NOZZLE
	67. NOZZLE - PUMP DISCHARGE
	68. NEEDLE - PUMP DISCHARGE
	69. MAIN BODY ASSY.

# ADJUSTMENTS



## 1982 TAMPERPROOF IDLE MIXTURE SCREWS

TO REMOVE TAMPERPROOF IDLE MIXTURE CONCEALMENT PLUG. CENTER PUNCH AND DRILL A 3/32" DIAMETER HOLE THROUGH THE HARDENED STEEL PLUG. INSTALL AN EASY OUT AND REMOVE THE PLUG.

BEFORE REMOVING IDLE ADJUSTING SCREWS. CAREFULLY TURN SCREWS IN CLOCKWISE COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT SCREWS. (RECORD FOR PROPER REASSEMBLY). IDENTIFY SCREWS TO RETURN TO THE SAME HOLES. (RIGHT AND LEFT).

REASSEMBLY: TURN IN IDLE MIXTURE SCREWS UNTIL LIGHTLY SEATED. THEN BACK OUT THE NUMBER OF TURNS RECORDED ON DISASSEMBLY.

REPLACE PLUG TO INSURE PROPER METERING.

# INSTRUCTION SHEET

## HOLLEY CARBURETOR - MODEL 2300

50-301

SHOWING THE LATE DESIGN SAFETY SEAL ADJUSTABLE NEEDLE AND SEAT ASSEMBLY

### DISASSEMBLY

1. USE EXPLODED VIEW ON OPPOSITE SIDE OF THIS SHEET AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION.

### CLEANING

2. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE (1) A CARBURETOR CLEANING SOLVENT (2) LACQUER THINNER OR (3) DENATURED ALCOHOL. MAKE CERTAIN THE THROTTLE BODY IS FREE OF ALL HARD CARBON DEPOSITS. RINSE OFF IN SUITABLE SOLVENT AND BLOW OUT ALL PASSAGES IN CASTING WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. CAUTION: DO NOT SOAK RUBBER, LEATHER OR PLASTIC PARTS IN SOLVENT.

### REASSEMBLY

3. REASSEMBLE THE CARBURETOR USING THE REVERSE ORDER OF DISASSEMBLY. NOTE: WHEN INSTALLING IDLE ADJUSTING NEEDLES (15), RUN THEM DOWN UNTIL THEY SEAT LIGHTLY, THEN BACK THEM OUT ONE TURN. AFTER INSTALLING THE FLOAT, POSITION THE FUEL BOWL UPSIDE DOWN AND ADJUST THE FLOAT AS OUTLINED IN STEP 1 OF FLOAT LEVEL ADJUSTMENT.

### ADJUSTMENTS

1. **FLOAT LEVEL.** SEE FIG. 1. STEP 1. WITH FUEL BOWL IN AN INVERTED POSITION, TURN THE ADJUSTING SCREW SLOT UNTIL THE TOP OF THE FLOAT IS PARALLEL WITH THE TOP OF THE FUEL BOWL. TIGHTEN LOCKNUT SNUGLY. STEP 2. WITH CAR ON A LEVEL FLOOR, BRING ENGINE TO NORMAL OPERATING TEMPERATURE, REMOVE PLUG FROM SIDE OF BOWL AND ADJUST RUNNING FUEL LEVEL TO BE AT LOWER EDGE OF INSPECTION HOLE. TIGHTEN LOCKNUT AND REPLACE SIGHT PLUG.

2. **PUMP ADJUSTMENT.** (A) WITH PUMP CAM (SEE FIG. 4) IN NO. 1 POSITION (62-64 RAMBLER AND WILLYS NO. 2 POSITION) (B) (SEE FIG. 2). THROTTLE HELD IN WIDE OPEN POSITION AND THE PUMP OPERATING ARM HELD IN A FULLY COMPRESSED POSITION, CHECK THE CLEARANCE BETWEEN THE ADJUSTING NUT AND THE PUMP OPERATING ARM. THE CLEARANCE SHOULD BE .015. TO ADJUST, TURN SCREW.

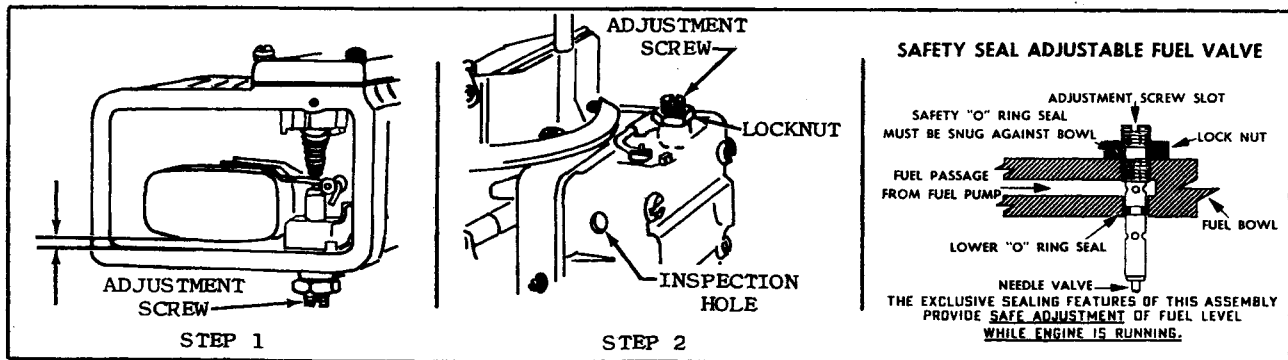
3. **BOWL VENT ADJUSTMENT:** WITH THROTTLE VALVE FULLY CLOSED, DISTANCE BETWEEN TOP OF FUEL BOWL AND VENT BUTTON SHOULD BE 1/16". TO ADJUST, BEND VENT ARM AT ACCELERATING PUMP LEVER. CAUTION: FORD AND MERCURY NO ADJUSTMENT REQUIRED. (SEE FIG. 3).

4. **AUTOMATIC CHOKE SETTING:** ALIGN MARK ON STAT COIL WITH INDEX ON CHOKE HOUSING, ALLOWABLE VARIATIONS, 2 MARKS EITHER WAY FROM INDEX.

5. **SLOW IDLE ADJUSTMENT:** ENGINE AT OPERATING TEMP., AND CHOKE WIDE OPEN, ADJUST IDLE MIXTURE NEEDLES (15) TO A SMOOTH IDLE. ADJUST IDLE STOP SCREW TO 500-550 R.P.M. (SEE FIG. 4).

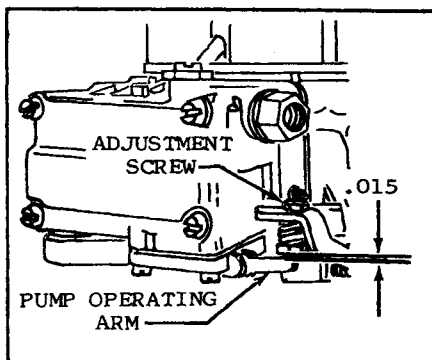
6. **FAST IDLE ADJUSTMENT:** PLACE FAST IDLE SCREW ON HIGH STEP OF FAST IDLE CAM AND SET TO 1600-1700 R.P.M. (SEE FIG. 5).

7. **DASHPOT ADJUSTMENT:** THIS ADJUSTMENT IS MADE WITH CARBURETOR SET AT PROPER IDLE SPEED. DEPRESS DASHPOT PLUNGER FULLY. THE DISTANCE BETWEEN THE PLUNGER AND THROTTLE LEVER SHOULD BE 5/64". TO ADJUST, LOOSEN LOCKNUT AND ROTATE DASHPOT ASSEMBLY. RETIGHTEN LOCKNUT. (SEE FIG. 3).

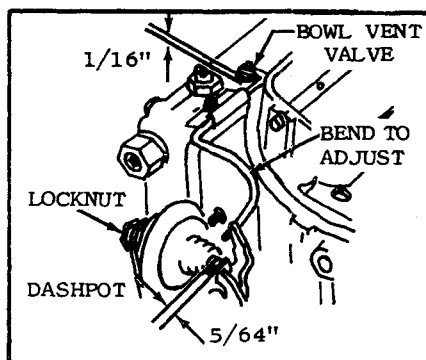


FLOAT LEVEL ADJUSTMENT

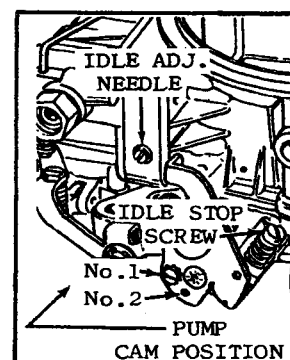
Fig. 1



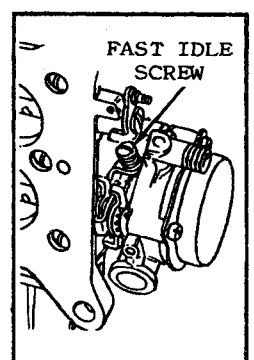
PUMP ADJUSTMENT Fig. 2



BOWL VENT AND DASHPOT ADJUSTMENT Fig. 3



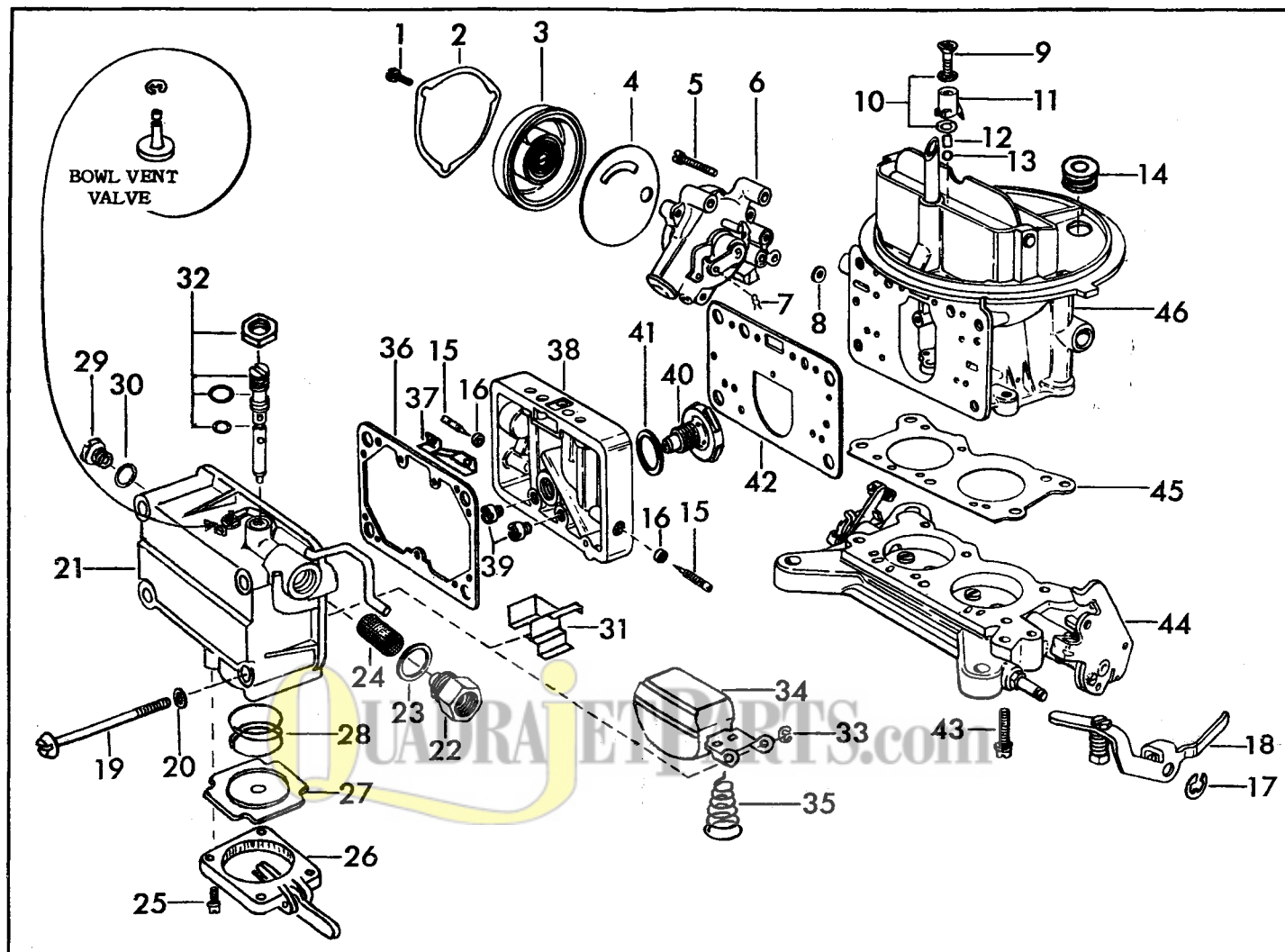
SLOW IDLE ADJUSTMENT Fig. 4



FAST IDLE ADJUSTMENT Fig. 5

## GENERAL EXPLODED VIEW

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



### NOMENCLATURE

REF.  
NO.

1. SCREW-STAT COVER
2. CLAMP-STAT COVER
3. STAT COVER
4. GASKET-STAT COVER
5. SCREW & LOCKWASHER-CHOKE HOUSING ASSY.
6. CHOKE HOUSING ASSY.
7. RETAINER-CHOKE ROD LOWER
8. GASKET-CHOKE HOUSING
9. SCREW-PUMP DISCHARGE NOZZLE
10. GASKETS-PUMP DISCHARGE NOZZLE
11. NOZZLE-PUMP DISCHARGE
12. WEIGHT-PUMP CHECK BALL
13. BALL-PUMP DISCHARGE CHECK
14. GROMMET-COLD AIR CHOKE TUBE
15. NEEDLE-IDLE ADJUSTING
16. SEAL-IDLE NEEDLE
17. RETAINER-PUMP OPERATING LEVER
18. LEVER-PUMP OPERATING
19. SCREW-FUEL BOWL
20. GASKET-FUEL BOWL SCREW
21. FUEL BOWL ASSEMBLY
22. FITTING-FUEL INLET
23. GASKET-FUEL INLET FITTING
24. SCREEN-FUEL INLET

REF.  
NO.

25. SCREW & LOCKWASHER-PUMP COVER
26. PUMP COVER ASSEMBLY
27. DIAPHRAGM-PUMP
28. SPRING-DIAPHRAGM RETURN
29. PLUG-FUEL LEVEL
30. GASKET-FUEL LEVEL PLUG
31. BAFFLE PLATE
32. NEEDLE, SEAT, O-RINGS & NUT ASSEMBLY
33. RETAINER-FLOAT
34. FLOAT ASSEMBLY
35. SPRING-FLOAT
36. GASKET-FUEL BOWL
37. BAFFLE-METERING BODY VENT
38. BODY-MAIN METERING
39. MAIN JETS
40. POWER VALVE
41. GASKET-POWER VALVE
42. GASKET-METERING BODY
43. SCREW & LOCKWASHER-THROTTLE BODY
44. THROTTLE BODY ASSEMBLY
45. GASKET-THROTTLE BODY
46. MAIN BODY ASSEMBLY