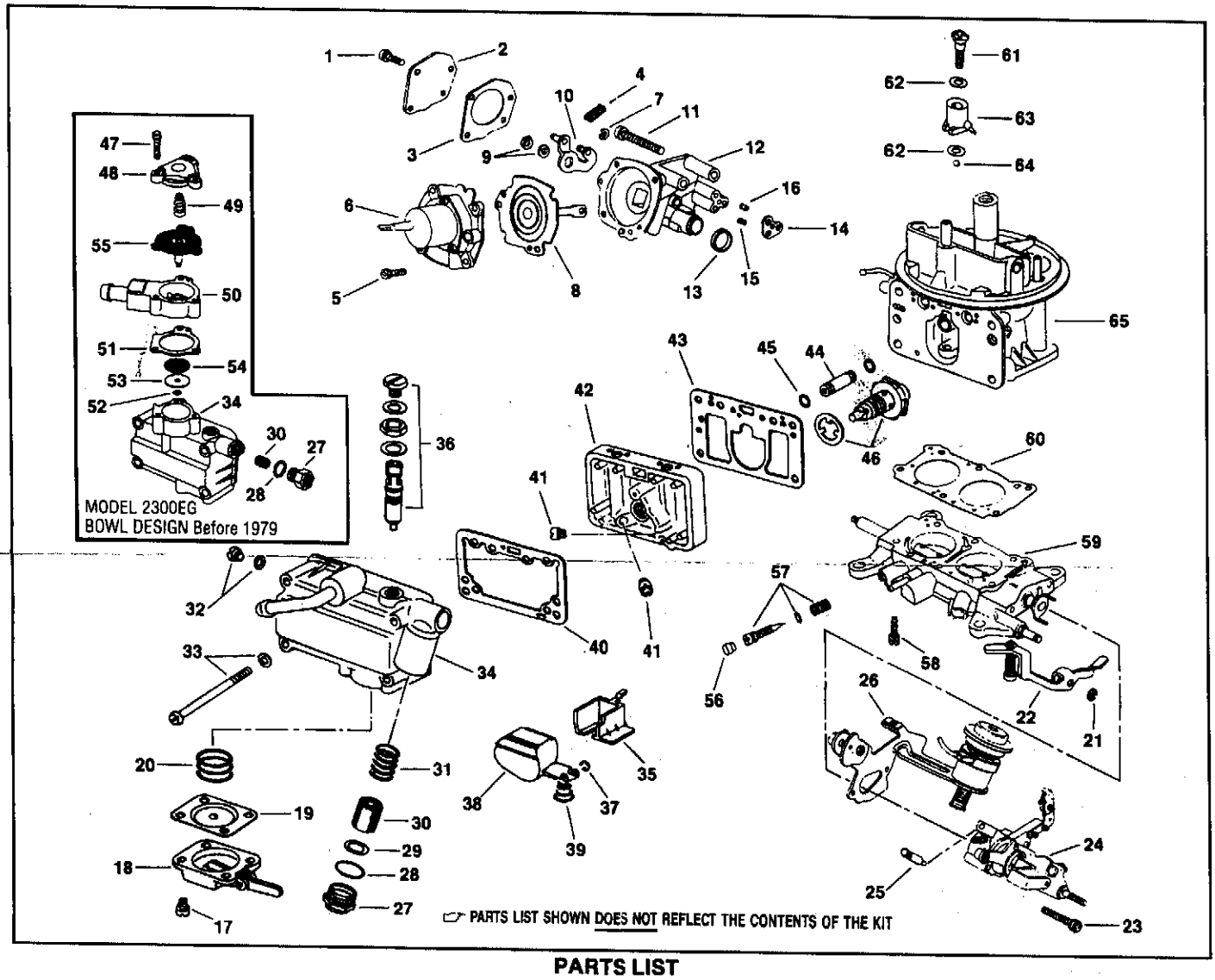
FUEL SYSTEM
SERVICE INSTRUCTION WORKSHEET

TO REPAIR GF3691-14

HOLLEY CARBURETOR

2 BARREL—Models 2300EG, 2380EG

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



PARTS LIST

1. Screw, cover (4)
2. Cover, governor housing
3. Gasket, cover
4. Spring, governor
5. Screw, cover & solenoid assembly (4)
6. Diaph. cover & solenoid assy.
7. Retainer, diaphragm stem
8. Diaphragm assembly
9. Nut & lockwasher, governor lever
10. Lever, governor
11. Screw, governor housing (3)
12. Governor housing assembly
13. Seal, governor housing
14. Gasket, governor housing
15. Jet A, governor housing
16. Jet B, governor housing
17. Screw, cover (4)
18. Cover, pump diaphragm
19. Pump diaphragm assembly*
20. Spring, diaphragm return
21. Retainer, pump lever
22. Pump lever assembly
23. Screw, throttle operating shaft housing (2)
24. Throttle operating shaft housing assembly
25. Plunger & screw, fast idle
26. Choke lever & dashpot assembly
27. Fitting, fuel nlet
28. Washer, fitting
29. Washer, filter
30. Filter, fuel
31. Spring, filter
32. Plug & washer, fuel level
33. Screw & washer, fuel bowl (4)
34. Fuel bowl assembly
35. Baffle plate
36. Needle & seat assembly
37. Retainer, float hinge
38. Float assembly
39. Spring, float hinge
40. Gasket, fuel bowl
41. Main jets (2)
42. Metering body assembly
43. Gasket, metering body
44. Connector, pump channel
45. O-ring, connector (2)
46. Economizer & gasket assy.
47. Screw, cover (3)
48. Cover, bowl vent
49. Spring, diaph. return
50. Bowl vent housing assy.
51. Gasket, housing
52. Retainer, diaphragm
53. Washer, vent valve
54. Valve, vent
55. Diaphragm, vent valve
56. Plug, idle mixture needle (2)
57. Needle, o-ring & spring, idle mixture (2)
58. Screw, throttle body (6)
59. Throttle body assembly
60. Gasket, throttle body
61. Screw, discharge nozzle
62. Washer, discharge nozzle (2)
63. Nozzle, pump discharge
64. Ball or needle pump discharge
65. Main body assembly

REMOVAL & INSTALLATION NOTES

1. Cover opening on intake manifold after carburetor is removed.
2. Identify and mark location of similar parts such as jets A & B (**15, 16**) to indicate proper installation.
3. Before removing discharge nozzle screw (**61**) file off staking. Make sure dirt does not enter passageways.
4. To remove & install tamperproof idle mixture needle (**57**) see **Fig. 1.**
5. Install parts and components in reverse order of removal.
6. Refer to **Fig. 2** for installation of discharge nozzle screw (**61**).
7. Refer to **Fig. 3** for installation of governor diaphragm (**18**).
8. Lightly lubricate o-rings with clean oil for easier installation.
9. After installing throttle body screws (58), tighten in stages crosswise and torque to 50 in.-lb.
10. Economizer valve (**46**) should be torqued to 100 in.-lb.
11. After installing fuel bowl screw (**33**), tighten evenly and torque to 50 in.-lb.

FIG. 1
REMOVAL & INSTALLATION OF TAMPERPROOF IDLE MIXTURE NEEDLES

1. Center punch and drill a 3/32" dia. hole through the steel plug. Install an easy-out tool into hole and remove the plug.
2. Using a 5/16" Allen wrench, turn needle in (clockwise) until lightly seated, counting number of turns. Record for proper installation.
   Important: *Mark right and left needles and return to the same holes.*
3. Install new o-ring onto needle and turn in (clockwise) until lightly seated. Back out number of turns recorded earlier.
   Caution: *Do not tighten needle as damage may result.*

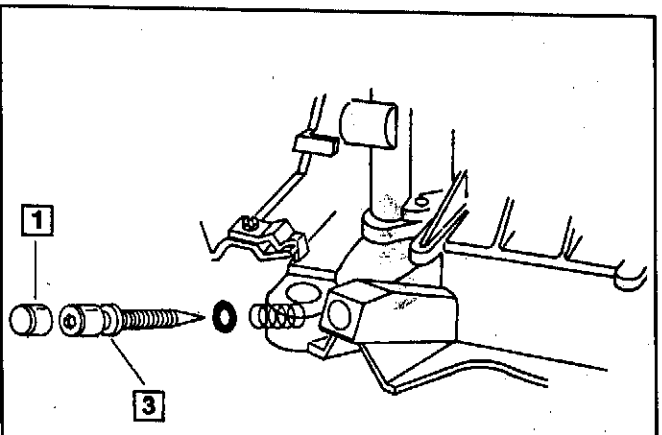


FIG. 2
INSTALLATION OF DISCHARGE NOZZLE SCREWS

1. Install pump discharge ball or needle, nozzle and washers and tighten screw securely.
2. Using a flat punch and hammer, stake the nozzle at the flat sides of the screw.
   Caution: *Do not use excessive force when staking. Remove any chips from nozzle and carburetor body.*

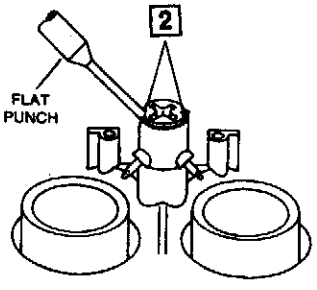
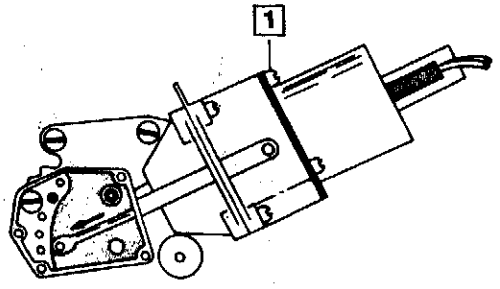


FIG. 3
INSTALLATION OF GOVERNOR DIAPHRAGM

1. Install diaphragm into goverr.or housing. Assemble cover over diaphragm and hand tighten screws.
2. Pull diaphragm stem in direction of arrow as far as it will go. \While holding diaphragm stem in this position, tighten cover screws evenly.



CLEANING

Cleaning must be done with carburetor disassembled. Use spray cleaner and a stiff bristle brush to remove dirt and carbon deposits. Do not use abrasives and wires to clean parts and passageways. Wash off in suitable solvent, and clear all passageways with compressed air.
Caution: *When cleaning with solvent, do not soak or spray parts containing rubber, leather, plastic and electrical components.*

ADJUSTMENT DATA

FIG. 4

DRY FLOAT LEVEL ADJUSTMENT

1. With fuel bowl inverted, surface of float should be parallel to top surface of fuel bowl.
2. To adjust, open lock-screw and turn adjusting nut. Re-tighten lock-screw while holding adjusting nut.

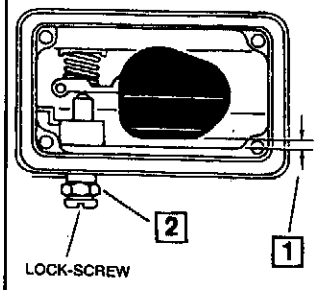


FIG. 5

WET FLOAT LEVEL ADJUSTMENT

1. With car on flat surface, bring engine to normal operating temperature and then shut it off.
2. Remove sight plug from fuel bowl. Fuel level should be at lower edge of sight plug hole. **Caution:** *Place a suitable container or rag to collect spillover of fuel.*
3. To adjust, open lock-screw and turn adjusting nut. Re-tighten lock-screw while holding adjusting nut. **Important:** *Do not open sight plug or lock-screw while engine is running.*

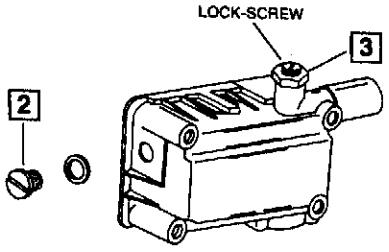


FIG. 6

PUMP LEVER CLEARANCE ADJUSTMENT

1. Hold throttle valves in wide open position.
2. While depressing pump arm manually in direction of arrow, use a feeler gauge to measure 0.015" clearance between pump arm and adjusting screw.
3. To adjust, turn adjusting screw in or out while holding locknut. *Note: One half turn of screw is approximately 0.015" clearance.*

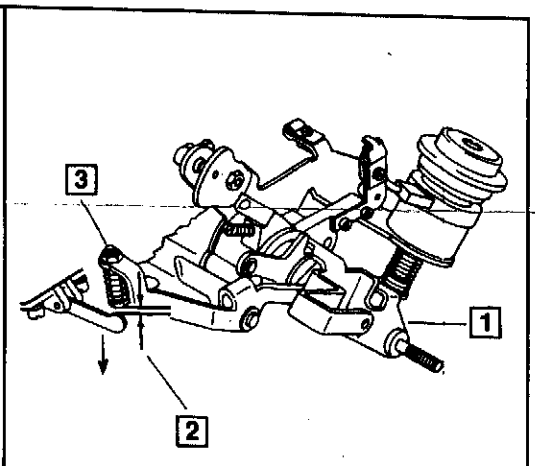


FIG. 7

FAST IDLE SPEED ADJUSTMENT

1. Hold throttle valves closed.
2. With choke valve wide open, use a feeler gauge to measure 0.030" clearance between the fast idle cam and fast idle adjusting screw.
3. To adjust turn adjusting screw as necessary. *(Note: One quarter turn of screw is approximately 0.008" clearance.)*