

INSTRUCTION SHEET

OFF VEHICLE CARBURETOR SERVICE

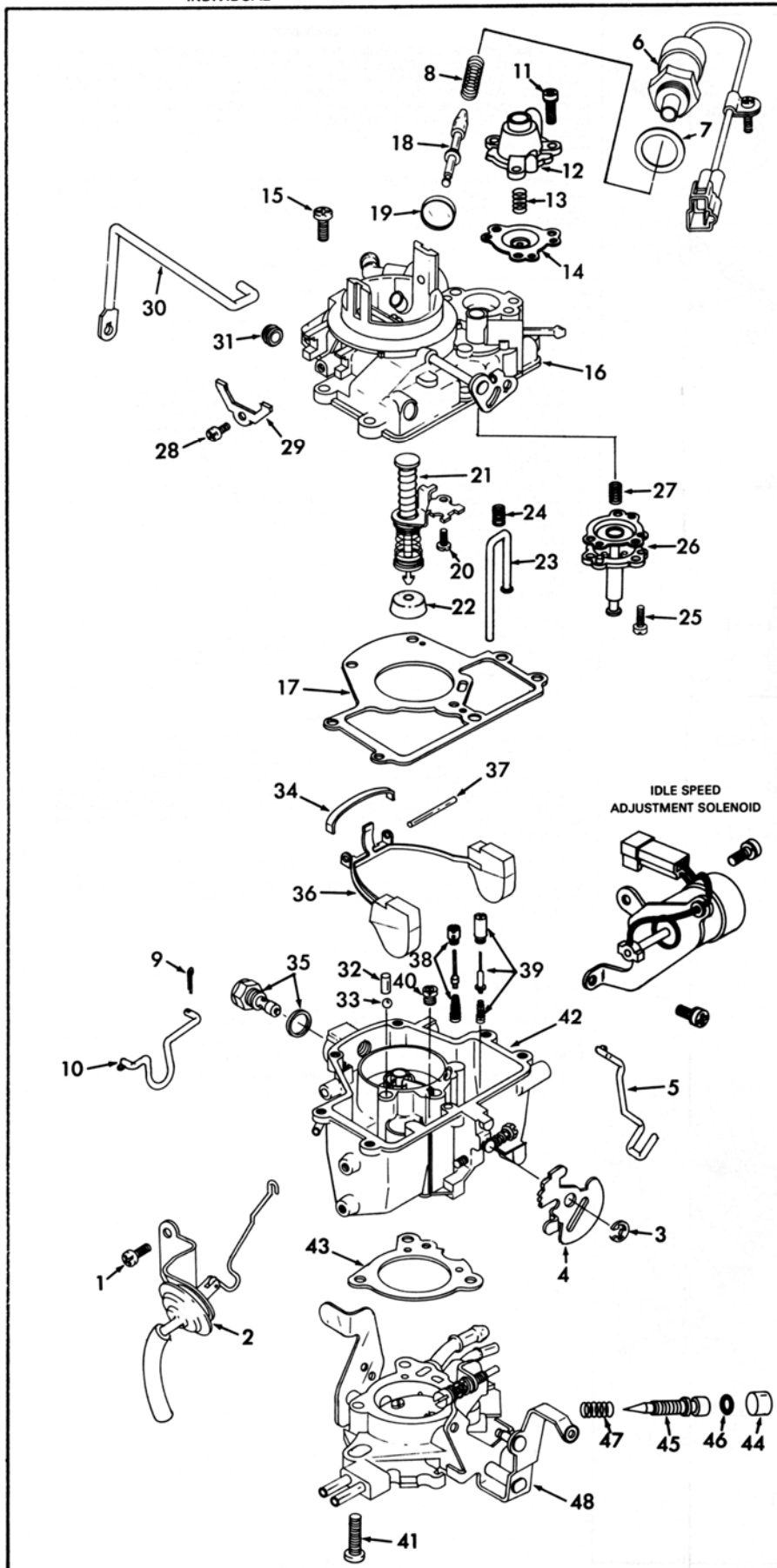
HOLLEY MODEL—6145

(VACUUM FEEDBACK)

50-609-5

GENERAL EXPLODED VIEW

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



DISASSEMBLY

USE THE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. TO REMOVE VENT VALVE STEM (18) PULL IT OUT OF RUBBER VENT VALVE (19). MAIN WELL TUBE IS NOT REMOVABLE. TAKE EXTREME CARE NOT TO BEND OR DAMAGE TUBE. TO REMOVE IDLE NEEDLE PLUG (44) DRILL A 1/8" HOLE AT A 45° ANGLE TOWARDS PLUG ABOUT 1/4" IN FROM EDGE OF HOUSING. INSERT A BLUNT PUNCH IN HOLE AND DRIVE OUT PLUG.

A NITROPHYL FLOAT (NON METAL) CAN BE CHECKED FOR FUEL ABSORPTION BY LIGHTLY SQUEEZING BETWEEN FINGERS. IF WETNESS APPEARS ON SURFACE OR FLOAT FEELS HEAVY (CHECK WITH KNOWN GOOD FLOAT) REPLACE THE FLOAT ASSEMBLY.

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW (2)—CHOKE PULL OFF	25. SCREW & LOCKWASHER (3)—ACTUATOR
2. CHOKE PULL-OFF & HOSE ASSY.	26. DIAPHRAGM ACTUATOR ASSY.
3. E-CLIP—FAST IDLE CAM	27. SPRING—DIAPHRAGM
4. CAM—FAST IDLE	28. SCREW—PUMP ROD CLAMP
5. ROD—FAST IDLE	29. CLAMP—PUMP ROD
6. SOLENOID ASSY.—BOWL VENT	30. ROD—PUMP OPERATING
7. GASKET—SOLENOID	31. GROMMET—PUMP ROD
8. SPRING—SOLENOID PLUNGER	32. WEIGHT—PUMP DISC. BALL
9. COTTER PIN—PUMP LINK	33. BALL—PUMP DISC.
10. LINK—PUMP	34. RETAINER—FLOAT PIN
11. SCREW & LOCKWASHER (3)—COVER	35. NEEDLE & SEAT ASSY.
12. COVER—FEED BACK DIAPHRAGM	36. FLOAT ASSY.
13. SPRING—DIAPHRAGM	37. PIN—FLOAT
14. DIAPHRAGM ASSY.—FEED BACK	38. POWER VALVE ASSY.—MECHANICAL (SHORT)
15. SCREW & LOCKWASHER (6)—BOWL COVER	39. POWER VALVE ASSY.—VACUUM (LONG)
16. BOWL COVER ASSY.	40. JET—MAIN
17. GASKET—BOWL COVER	41. SCREW & LOCKWASHER (3)—THROTTLE BODY
18. PLUNGER STEM—VENT VALVE	42. BOWL ASSY.
19. VALVE—BOWL VENT	43. GASKET—THROTTLE BODY
20. SCREW & LOCKWASHER—PUMP BRACKET	44. PLUG—IDLE NEEDLE
21. PUMP STEM & BRACKET ASSY.	45. NEEDLE—IDLE ADJ.
22. CUP—PUMP	46. O-RING—IDLE NEEDLE
23. ROD—MECHANICAL POWER VALVE	47. SPRING—IDLE NEEDLE
24. SPRING—ROD	48. 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 THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE OFF IN A 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 SOLENOID (6), CHOKE PULL-OFF (2), FLOAT (36) OR PARTS MADE OF RUBBER 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

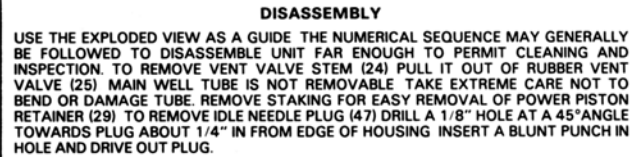
IDLE ADJ. NEEDLE (45) — TURN IN UNTIL LIGHTLY SEATED. THEN BACK OUT 2 TURNS (DO NOT INSTALL PLUG (44) AT THIS TIME).

THROTTLE BODY SCREW (41) — TIGHTEN ALTERNATELY A LITTLE AT A TIME TO COMPRESS THE GASKET EVENLY. TORQUE TO 30 INCH LBS.

BOWL COVER SCREWS (15) — TIGHTEN ALTERNATELY A LITTLE AT A TIME TO COMPRESS THE GASKET EVENLY. TORQUE TO 30 INCH LBS.

(ELECTRONIC FEEDBACK)

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



A NITROPHYL FLOAT (NON METAL) CAN BE CHECKED FOR FUEL ABSORPTION BY LIGHTLY SQUEEZING BETWEEN FINGERS IF WETNESS APPEARS ON SURFACE OR FLOAT FEELS HEAVY (CHECK WITH KNOWN GOOD FLOAT) REPLACE THE FLOAT ASSEMBLY.

REF NO	REF NO
1. SCREW (2)-CHOKE PULL OFF	27 PUMP STEM & BRACKET ASSY
2 CHOKO PULL OFF & HOSE ASSY	28 CUP-PUMP
3. VAC. HOSE-POWER VALVE	29 RETAINER-POWER PISTON
4 SCREW & LKWSHR (2)-SOLENOID	30 POWER PISTON
5 IDLE STOP SOLENOID ASSY	31 SPRING-POWER PISTON
6 SOLENOID ASSY.-BOWL VENT	32 SCREW-PUMP ROD CLAMP
7 GASKET-SOLENOID	33 CLAMP-PUMP ROD
8 SPRING-SOLENOID PLUNGER	34 ROD-PUMP OPERATING
9 SCREW & LKWSHR -WIRE CLAMP	35 GROMMET-PUMP ROD
10 SCREW & LKWSHR (2)-SOLENOID	36 WEIGHT-PUMP DISC BALL
11 DUTY CYCLE SOLENOID ASSY	37 BALL-PUMP DISC
12 O-RING-SOLENOID	38 RETAINER-FLOAT PIN
13 GASKET-SOLENOID	39 FLOAT ASSY
14 E-CLIP-FAST IDLE CAM	40 PIN-FLOAT
15 CAM-FAST IDLE	41 NEEDLE & SEAT ASSY
16 LINK-FAST IDLE CAM	42 POWER VALVE ASSY
17 NUT-THROTTLE LEVER	43 JET-MAIN
18 LKWSHR -THROTTLE LEVER	44 SCREW & LKWSHR (3)-THROTTL. BODY
19 LEVER-THROTTLE	45 BOWL ASSY
20 LINK-PUMP	46 GASKET-THROTTLE BODY
21 SCREW & LKWSHR (6)-BOWL COVER	47 PLUG-IDLE NEEDLE
22 BOWL COVER ASSY	48 NEEDLE-IDLE ADJ
23 GASKET-BOWL COVER	49 O-RING-IDLE NEEDLE
24 PLUNGER STEM-VENT VALVE	50 SPRING-IDLE NEEDLE
25 VALVE-BOWL VENT	51 THROTTLE BODY ASSY
26. SCREW & LKWSHR -PUMP BRACKET	

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 SOLENOIDS (5), (6), (11), CHOKER PULL-OFF (2), FLOAT (39), OR PARTS MADE OF RUBBER IN CLEANING SOLVENT.

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

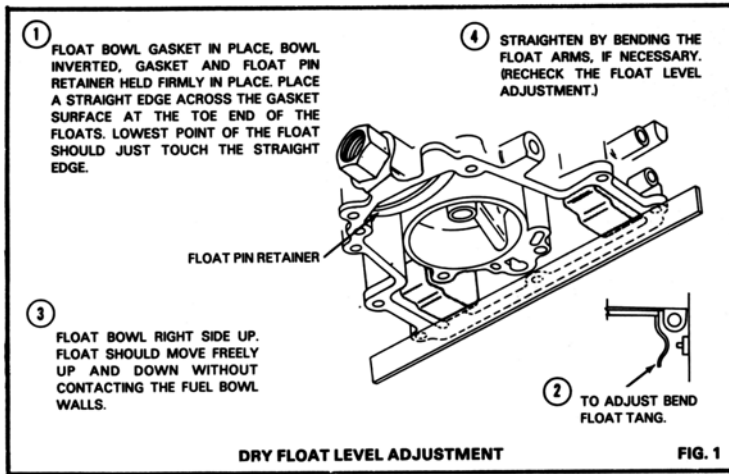
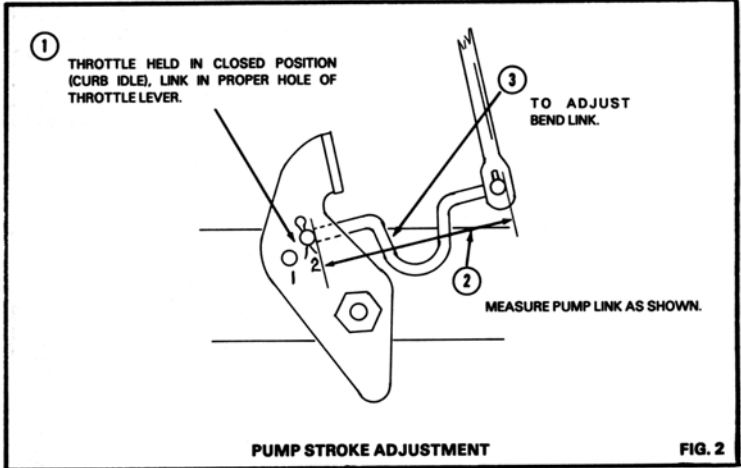
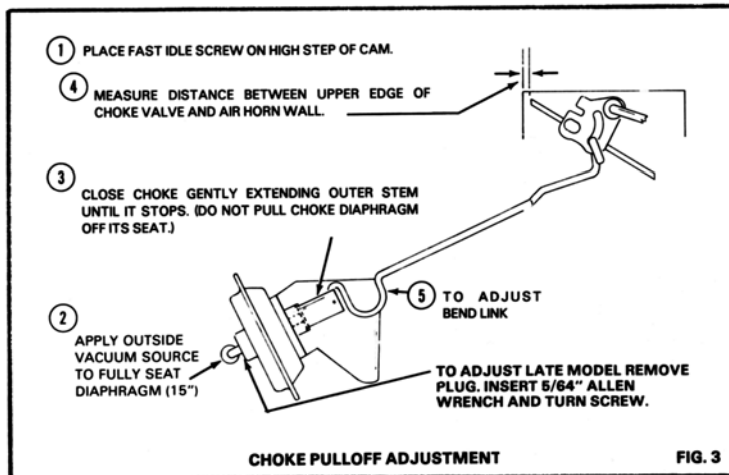
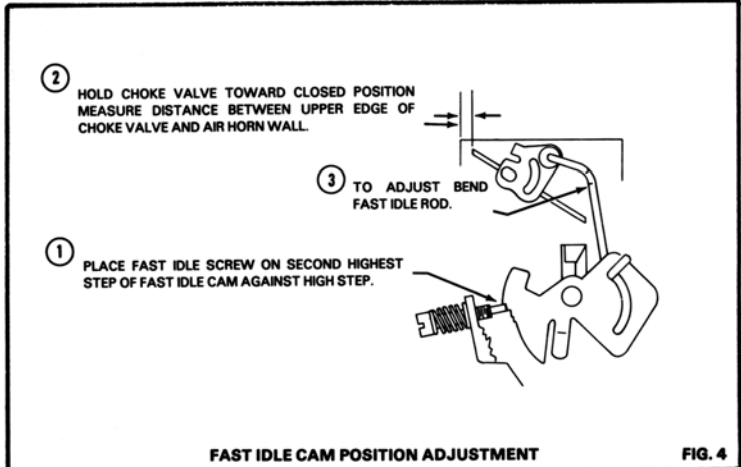
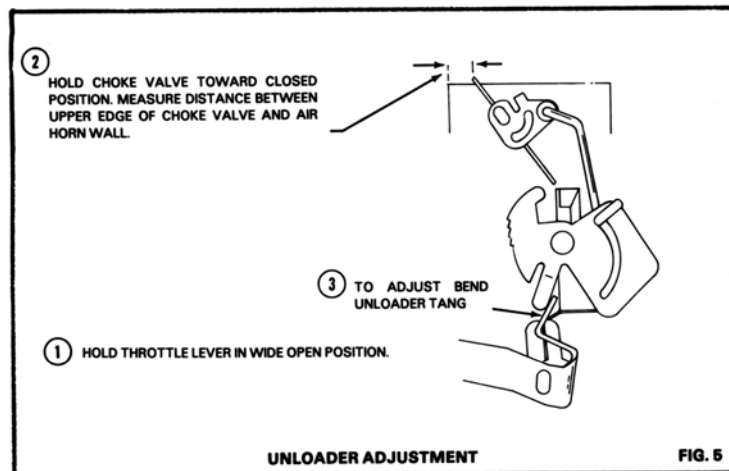
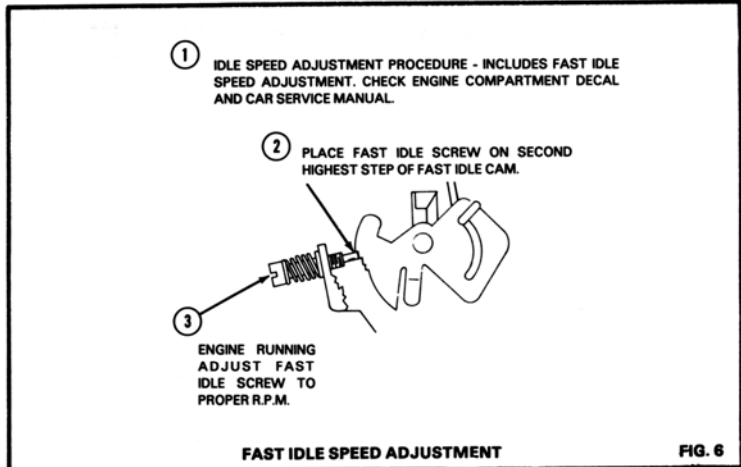
IDLE ADJ. NEEDLE (48)-TURN IN UNTIL LIGHTLY SEATED THEN BACK OUT 2 TURNS (DO NOT INSTALL PLUG (47) AT THIS TIME)

THROTTLE BODY SCREW (44)-TIGHTEN ALTERNATELY A LITTLE AT A TIME TO COMPRESS THE GASKET EVENLY TORQUE TO 30 INCH LBS

BOWL COVER SCREWS (21)-TIGHTEN ALTERNATELY A LITTLE AT A TIME TO COMPRESS THE GASKET EVENLY TORQUE TO 30 INCH LBS

POWER PISTON RETAINER (29)-INSTALL SPRING AND PISTON, SEAT RETAINER AND STAKE LIGHTLY WITH A SUITABLE TOOL.

ADJUSTMENTS



ADJUSTMENT DATA TABLE.

YEAR	APPLICATION	FLOAT LEVEL	PUMP ADJ. HOLE	LINK	CHOKE PULLOFF	FAST IDLE CAM	UNLOADER	FAST IDLE R.P.M.
CHRYSLER PRODUCTS								
1981-82 PASSENGER CAR								
	225" ENG.	FLUSH *	NO. 2	1.615"	.150"	.090"	.250"	2000
	1983 225" ENG. A/T	FLUSH *	NO. 2	1.720"	.150"	.090"	.250"	2000
1983 TRUCK								
	225" ENG. M/T	FLUSH *	NO. 2	1.700"	.150"	.090"	.250"	1600
	A/T	FLUSH *	NO. 2	1.610"	.150"	.090"	.250"	1600
1984 TRUCK								
	225" ENG.	FLUSH*	NO. 2	1.610"	.150"	.070"	.250"	1600
1985-87 TRUCK								
	225" ENG. M/T	FLUSH*	NO. 2	1.750"	.150"	.060"	.250"	1600
	A/T	FLUSH*	NO. 2	1.750"	.150"	.070"	.250"	1600

*WITH BOWL COVER GASKET IN PLACE