

INSTRUCTION SHEET

OFF VEHICLE CARBURETOR SERVICE

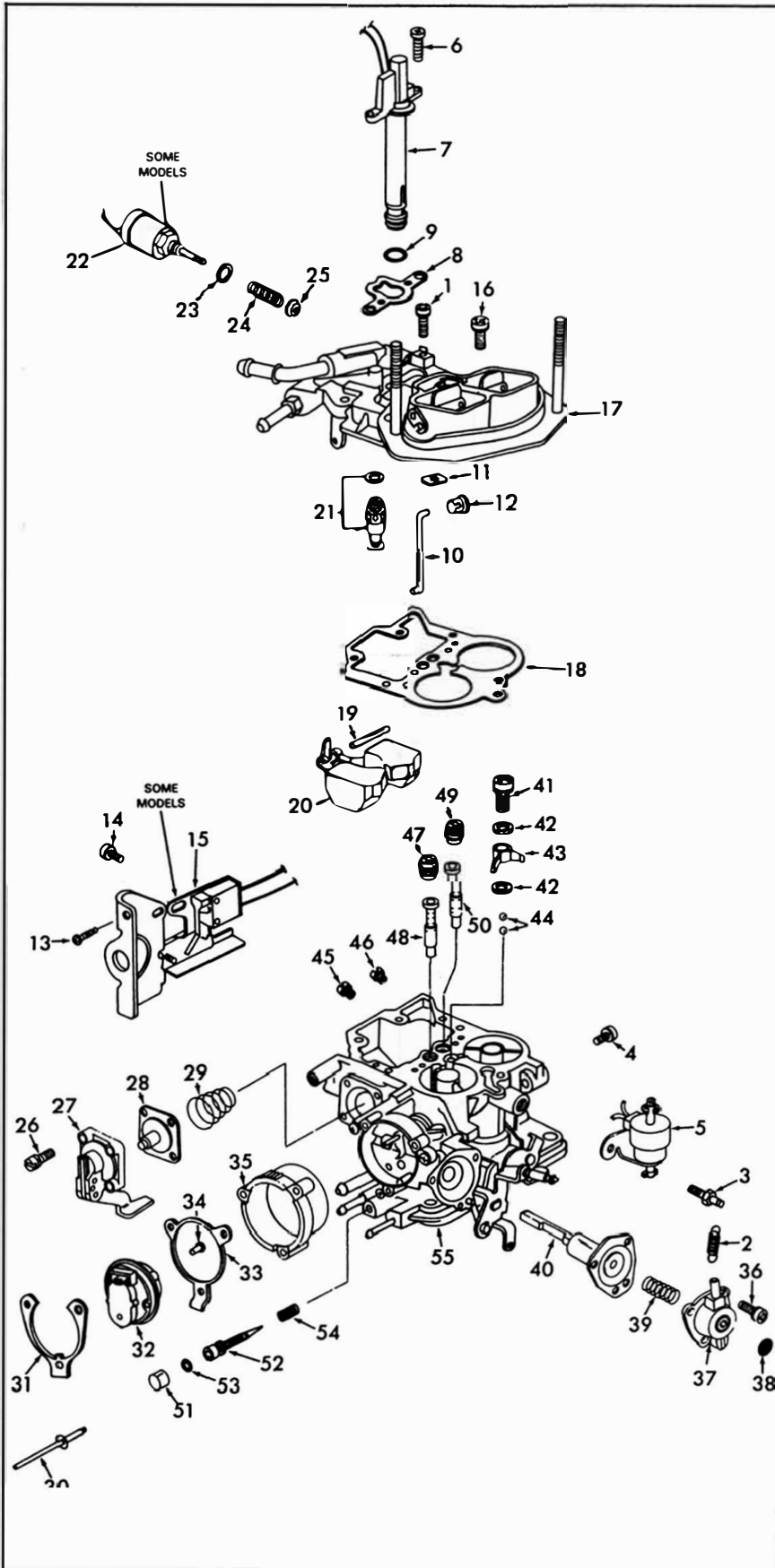
HOLLEY MODEL-6520

50-596

(WITH MIXTURE CONTROL SOLENOID)

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 TO REMOVE BOWL VENT SOLENOID (22) COMPLETELY UNSCREW FROM BOWL COVER THEN PULL UNIT OUT OF VENT VALVE (25). CHOKE RETAINER POP RIVETS (30) CAN BE REMOVED BY DRILLING RIVET HEADS OFF. REMOVE CHOKE COMPONENTS AND THEN PULL REMAINDER OF RIVETS FROM HOUSING. CHOKE ADJ. SCREW PLUG (38) AND IDLE ADJ. SCREW PLUG (51) CAN BE REMOVED BY CAREFULLY DRILLING A 1/4" HOLE IN PLUG'S. THEN USING A EASY OUT TO PULL PLUG'S FROM HOUSING. RECORD SIZES OF JETS AND MAIN WELL TUBES AND THEIR LOCATION FOR PROPER ASSEMBLY. MOST SCREWS AND THREADS ARE METRIC. DO NOT SUBSTITUTE WITH U. S. THREADED SCREWS.

MODELS WITH TAMPER RESISTANT SCREW RETAINING COVER ASSEMBLY (37) GRIND OR FILE HEAD OFF TO REMOVE COVER. USING PLIERS CAREFULLY REMOVE ADJUSTING SCREW FROM INSIDE COVER. REMOVE DRIVE NAIL FROM HEAD OF ADJUSTING SCREW THEN USING A ALLEN WRENCH REPLACE ADJUSTING SCREW IN COVER. TO REMOVE ROLL PIN IN FRONT OF IDLE MIXTURE NEEDLE (52), INSERT A SHARP PUNCH THROUGH IDLE AND TAP PIN OUT.

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW & WIRE CLAMP	28. DIAPHRAGM ASSY. - PUMP
2. SPRING - SECONDARY RETURN	29. SPRING - DIAPHRAGM
3. STUD & LKWSHR. - SEC. SPRING	30. RIVETS (3) - CHOKE RETAINER
4. SCREW & LKWSHR. - THROTTLE SOLENOID	31. RETAINER - CHOKE COVER
5. THROTTLE SOLENOID ASSY.	32. CHOKE COVER & COIL ASSY.
6. SCREW & LKWSHR. (2) - SOLENOID	33. RING - CHOKE GROUND
7. SOLENOID ASSY. - MIXTURE CONTROL	34. BUSHING - COIL SPRING LOOP
8. GASKET - SOLENOID	35. HOUSING - CHOKE COIL ASSY.
9. O-RING - SOLENOID	36. SCREW & LKWSHR. (3) - COVER
10. ROD - CHOKE OPERATING	37. COVER ASSY. - DIAPHRAGM
11. SEAL - CHOKE ROD	38. PLUG - ADJ. SCREW
12. RETAINER (2) - CHOKE ROD	39. SPRING - DIAPHRAGM
13. SCREW & LKWSHR. (2) - BRACKET MICRO SWITCH	40. DIAPHRAGM ASSY. - CHOKE
14. SCREW - MICRO SWITCH	41. SCREW - PUMP DISC. NOZZLE
15. MICRO SWITCH & BRACKET ASSY.	42. GASKET (2) - PUMP NOZZLE
16. SCREW & LKWSHR. (5) - BOWL COVER	43. NOZZLE - PUMP DISC.
17. BOWL COVER ASSY.	44. BALL (2) - PUMP DISCHARGE
18. GASKET - BOWL COVER	45. JET - PRI. MAIN
19. PIN - FLOAT	46. JET - SEC. MAIN
20. FLOAT & LEVER ASSY.	47. JET - PRI. HIGH SPEED BLEED
21. NEEDLE & SEAT ASSY.	48. TUBE - PRI. MAIN WELL
22. SOLENOID - VENT VALVE	49. JET - SEC. HIGH SPEED BLEED
23. GASKET - SOLENOID	50. TUBE - SEC. MAIN WELL
24. SPRING - SOLENOID	51. PLUG - IDLE ADJ. NEEDLE
25. VALVE - VENT	52. NEEDLE - IDLE ADJUSTING
26. SCREW & LKWSHR. (4) - PUMP COVER	53. O-RING - IDLE NEEDLE
27. PUMP COVER & LEVER ASSY.	54. SPRING - IDLE NEEDLE
	55. MAIN 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 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 PLASTIC FLOAT, SOLENOIDS, ELECTRIC CHOKE COVER OR PARTS CONTAINING RUBBER MATERIALS IN CARBURETOR CLEANING SOLVENT.

REASSEMBLY

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

SPECIAL INSTRUCTIONS

CHECK BALL (44) - 2 BALLS ARE USED, ONE IS USED AS A WEIGHT

BOWL COVER SCREWS (16) - TIGHTEN EVENLY IN STAGES TO 30 INCH LBS.

PUMP RETURN SPRING (29) - INSTALL WITH SMALL DIAMETER AGAINST CARBURETOR BOWL.

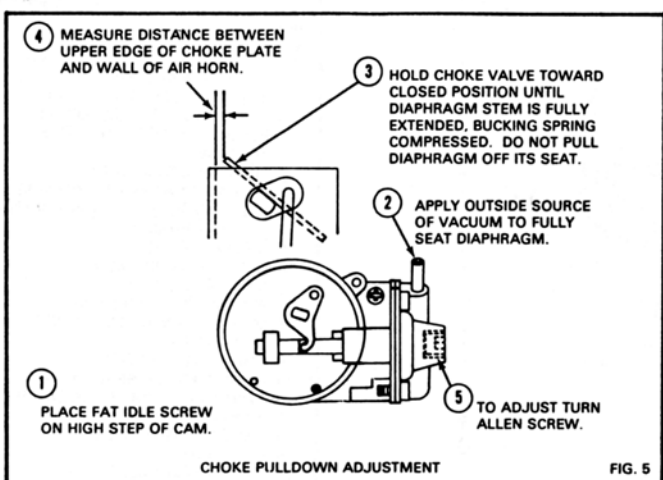
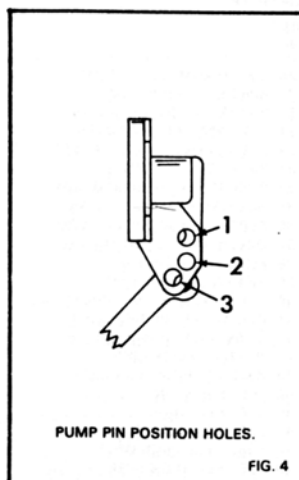
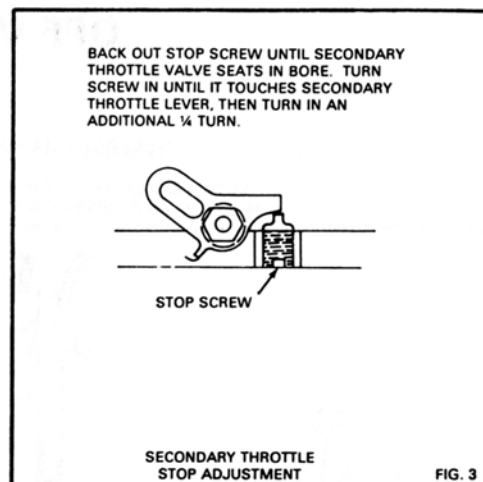
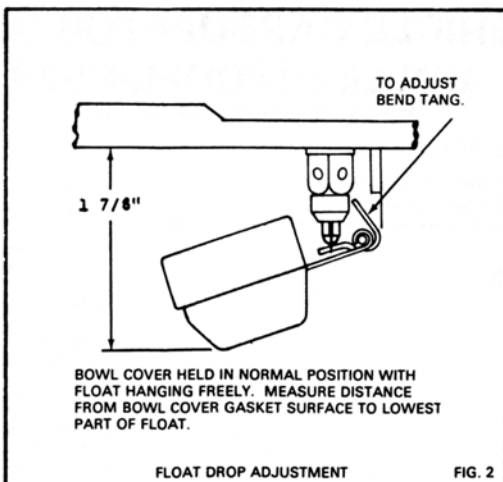
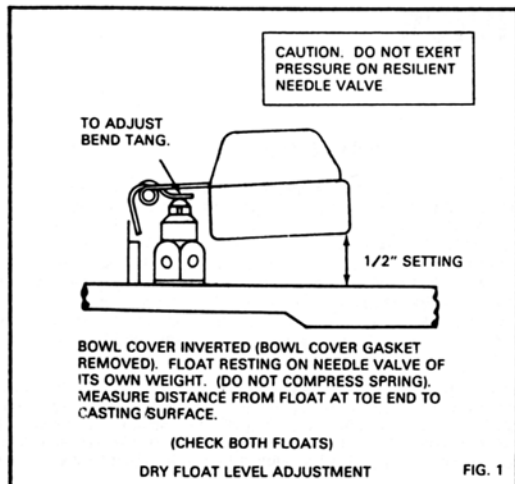
IDLE ADJUSTING NEEDLE (52) - TURN IN UNTIL LIGHTLY SEATED. THEN BACK OUT 2 TURNS (DO NOT INSTALL PLUG (51) AT THIS TIME).

CHOKE COVER (32) - INSTALL BUSHING (34) IN LOOP END OF COIL SPRING BEFORE INSTALLING ON PIN OF LEVER

INSTALL CHOKE COMPONENTS MAKING SURE TAB ON RETAINER (31) FITS IN NOTCH OF CHOKE COVER (32) (NONE ADJUSTABLE) BEFORE INSTALLING POP RIVETS (30)

USE ENGINE DECAL AND CAR SERVICE MANUAL FOR CORRECT PROCEDURE IN SETTING SLOW AND FAST IDLE

ADJUSTMENTS



ADJUSTMENT DATA TABLE

APPLICATION		FLOAT LEVEL	FLOAT DROP	PUMP PIN POSITION	CHOKE PULLDOWN
CHRYSLER PRODUCTS					
1980					
1.7L ENG.	M/T	1/2"	1 7/8"	NO. 2	.120"
	A/T	1/2"	1 7/8"	NO. 2	.070"
1981					
1.7L ENG.	M/T	1/2"	1 7/8"	NO. 2	.070"
	A/T	1/2"	1 7/8"	NO. 2	.040"
2.2L ENG.	M/T	1/2"	1 7/8"	NO. 2	.030"
	A/T	1/2"	1 7/8"	NO. 2	.085"
1982					
1.7L ENG.	M/T	1/2"	1 7/8"	NO. 2	.080"
	A/T	1/2"	1 7/8"	NO. 2	.065"
2.2L ENG. FED.	M/T	1/2"	1 7/8"	NO. 3	.085"
	A/T	1/2"	1 7/8"	NO. 3	.100"
2.2L ENG. CALIF.	ALL/T	1/2"	1 7/8"	NO. 3	.085"
1983					
1.6L ENG. ALL	M/T	1/2"	1 7/8"	NO. 2	.070"
	A/T	1/2"	1 7/8"	NO. 2	.045"
2.2L ENG. FED.	M/T	1/2"	1 7/8"	NO. 3	.070"
	A/T	1/2"	1 7/8"	NO. 3	.080"
2.2L ENG. FED. ALT.	ALL/T	1/2"	1 7/8"	NO. 3	.080"
	ALL/T	1/2"	1 7/8"	NO. 3	.070"
1984					
1.6L ENG.	M/T	1/2"	1 7/8"	NO. 2	.070"
	A/T	1/2"	1 7/8"	NO. 2	.055"
2.2L ENG. FED.	ALL/T	1/2"	1 7/8"	NO. 3	.080"
	ALL/T	1/2"	1 7/8"	NO. 2	.080"
1985					
1.6L ENG.		1/2"	1 7/8"	NO. 2	.070"
2.2L ENG.		1/2"	1 7/8"	NO. 2	.070"

REV. 09/07/11