

INSTRUCTION SHEET

OFF VEHICLE CARBURETOR SERVICE

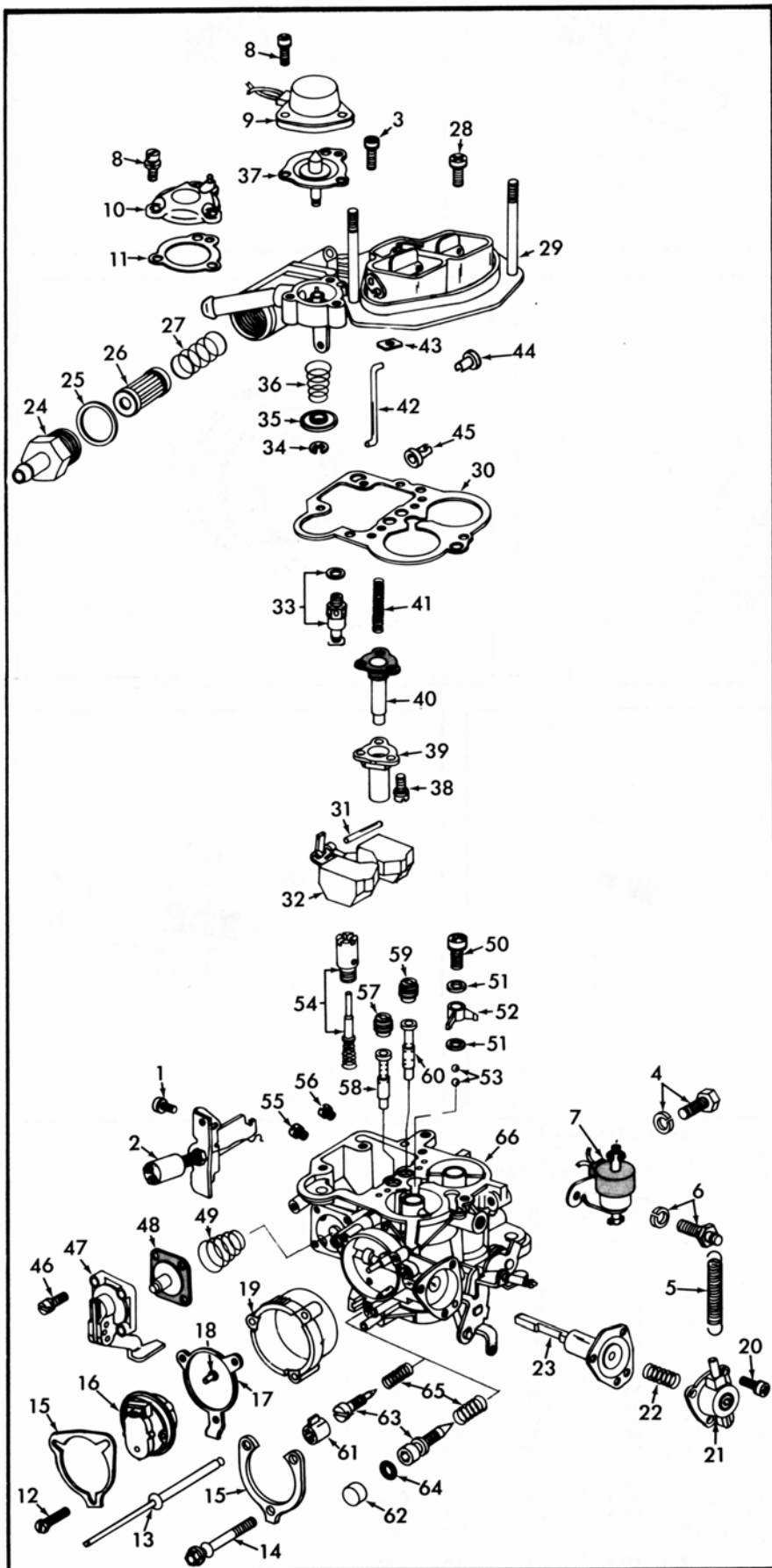
HOLLEY MODEL—5220

50-560-5

CHRYSLER PRODUCTS

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. CAUTION: NOTE SIZES OF JETS AND MAIN WELL TUBES AND THEIR LOCATION FOR PROPER ASSEMBLY (RECORD SIZES BELOW). MOST SCREWS AND THREADS ARE METRIC, DO NOT SUBSTITUTE WITH U. S. THREADED SCREWS.

TAMPER RESISTANT CHOKE. POP RIVETS CAN BE REMOVED BY DRILLING OR CUTTING RIVET HEADS OFF. REMOVE CHOKE COMPONENTS THEN REMOVE REMAINDER OF RIVETS FROM HOUSING. DRILL OR SAW A SLOT IN BREAK AWAY SCREW HEAD TO REMOVE. IDLE ADJUSTING NEEDLE CONCEALMENT PLUG. TO REMOVE DRILL A 1/8" HOLE IN THE BASE AT A 45° ANGLE TOWARDS PLUG, ABOUT 1/4" IN FROM EDGE OF HOUSING. INSERT PUNCH INTO HOLE AND DRIVE PLUG OUT.

NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW & LKWSHR. (2)-TRANSDUCER ASSY.	32. FLOAT ASSY.
2. TRANSDUCER & BRACKET ASSY.	33. NEEDLE & SEAT ASSY
3. SCREW & LKWSHR-WIRE HARNESS BRACKET	34. E-CLIP-VENT VALVE (SM)
4. SCREW & LKWSHR (2)-THROTTLE SOLENOID	35. VALVE-BOWL VENT (SM)
5. SPRING-SEC. THROTTLE RETURN (SM)	36. SPRING-BOWL VENT VALVE (SM)
6. STUD & LKWSHR-SPRING (SM)	37. DIAPHRAGM ASSY.-VENT VALVE (SM)
7. THROTTLE SOLENOID ASSY.	38. SCREW & LKWSHR (3)-COVER
8. SCREW & LKWSHR (3)-COVER BOWL VENT	39. COVER-DIAPHRAGM
9. ELECTRIC COVER-BOWL VENT	40. DIAPHRAGM ASSY.-POWER VALVE ACTUATOR
10. COVER-BOWL VENT PASSAGE (SM)	41. SPRING-ACTUATOR DIAPHRAGM
11. GASKET-COVER (SM)	42. ROD-CHOKE OPERATING
12. SCREW (3)-CHOKE RETAINER	43. SEAL-CHOKE ROD
13. POP RIVET (2)-CHOKE RETAINER (SM)	44. RETAINER-CHOKE ROD (UPPER)
14. BREAKAWAY SCREW-CHOKE RETAINER (SM)	45. RETAINER-CHOKE ROD (LOWER)
15. RETAINER-CHOKE COVER	46. SCREW & LKWSHR (4)-PUMP COVER
16. CHOKE COVER & COIL ASSY.	47. COVER ASSY.-PUMP
17. RING-CHOKE GROUND	48. DIAPHRAGM ASSY.-PUMP
18. BUSHING-COIL SPRING LOOP	49. SPRING-DIAPHRAGM RETURN
19. HOUSING-CHOKE COIL ASSY.	50. SCREW-PUMP DISC. NOZZLE
20. SCREW & LKWSHR (3)-COVER	51. GASKET (2)-PUMP NOZZLE
21. COVER ASSY.-DIAPHRAGM	52. NOZZLE-PUMP DISCHARGE
22. SPRING-DIAPHRAGM	53. BALL (2)-PUMP DISCHARGE
23. DIAPHRAGM ASSY.-CHOKE	54. POWER VALVE ASSY.
24. FITTING-FUEL INLET	55. JET-PRI. MAIN
25. GASKET-FITTING	56. JET-SEC. MAIN
26. FILTER-FUEL (SM)	57. JET-PRI. HIGH SPEED BLEED
27. SPRING-FUEL FILTER (SM)	58. TUBE-PRI. MAIN WELL
28. SCREW & LKWSHR (5)-BOWL COVER	59. JET-SEC. HIGH SPEED BLEED
29. BOWL COVER ASSY.	60. TUBE-SEC. MAIN WELL
30. GASKET-BOWL COVER	61. CAP-IDLE LIMITER (SM)
31. PIN-FLOAT	62. PLUG-IDLE NEEDLE (SM)
	63. NEEDLE-IDLE ADJUSTING
	64. O-RING-IDLE ADJ. NEEDLE (SM)
	65. SPRING-IDLE ADJ. NEEDLE
	66. MAIN BODY ASSEMBLY

SM=SOME MODELS

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 (53) - 2 BALLS ARE USED, ONE IS USED AS A WEIGHT.

FUEL FILTER (26) - INSTALL FILTER WITH SOLID END AGAINST SPRING (27)

BOWL COVER SCREWS (28) - TIGHTEN EVENLY IN STAGES TO 30 INCH LBS.

PUMP RETURN SPRING (49) - INSTALL WITH SMALL DIAMETER AGAINST CARBURETOR BOWL.

IDLE ADJUSTING NEEDLE (63) - TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT 2 1/2 TURNS. (DO NOT INSTALL LIMITER CAP OR PLUG AT THIS TIME).

CHOKE COVER (16) - INSTALL BUSHING (18) IN LOOP END OF COIL SPRING BEFORE INSTALLING ON PIN OF LEVER.

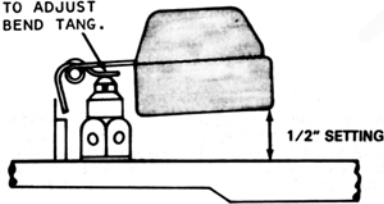
TAMPER RESISTANT CHOKE COVER INSTALLATION-INSTALL CHOKE COMPONENTS MAKING SURE TAB ON RETAINER FITS IN NOTCH OF CHOKE COVER (NON ADJUSTABLE) BEFORE INSTALLING POP RIVETS AND BREAK AWAY SCREW.

THROTTLE CUT OUT SWITCH A/C MODELS - SET SWITCH SO THAT AIR CONDITIONING CLUTCH CIRCUIT IS OPEN IN THROTTLE POSITION OF 10° BEFORE TO WIDE OPEN THROTTLE.

ADJUSTMENTS

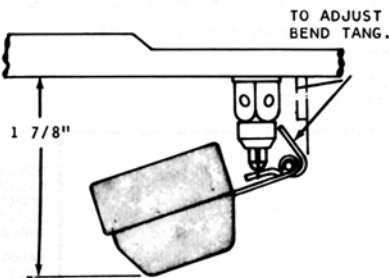
CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

TO ADJUST BEND TANG.



BOWL COVER INVERTED (BOWL COVER GASKET REMOVED). FLOAT RESTING ON NEEDLE VALVE OF ITS OWN WEIGHT. (DO NOT COMPRESS SPRING). MEASURE DISTANCE FROM FLOAT AT TOE END TO CASTING SURFACE.
(CHECK BOTH FLOATS)

DRY FLOAT LEVEL ADJUSTMENT FIG. 1



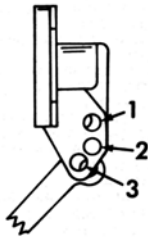
BOWL COVER HELD IN NORMAL POSITION WITH FLOAT HANGING FREELY. MEASURE DISTANCE FROM BOWL COVER GASKET SURFACE TO LOWEST PART OF FLOAT.

FLOAT DROP ADJUSTMENT FIG. 2

BACK OUT STOP SCREW UNTIL SECONDARY THROTTLE VALVE SEATS IN BORE. TURN SCREW IN UNTIL IT TOUCHES SECONDARY THROTTLE LEVER, THEN TURN IN AN ADDITIONAL 1/4 TURN.



SECONDARY THROTTLE STOP ADJUSTMENT FIG. 3

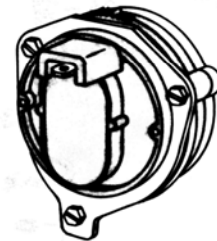


PUMP PIN POSITION HOLES. FIG. 4

- MEASURE DISTANCE BETWEEN UPPER EDGE OF CHOKE PLATE AND WALL OF AIR HORN.
- APPLY OUTSIDE SOURCE OF VACUUM TO FULLY SEAT DIAPHRAGM.
- HOLD CHOKE VALVE TOWARD CLOSED POSITION UNTIL DIAPHRAGM STEM IS FULLY EXTENDED, BUCKING SPRING COMPRESSED. DO NOT PULL DIAPHRAGM OFF ITS SEAT.
- TO ADJUST TURN ALLEN SCREW.
- PLACE FAST IDLE SCREW ON HIGH STEP OF CAM.

CHOKE PULLDOWN ADJUSTMENT FIG. 5

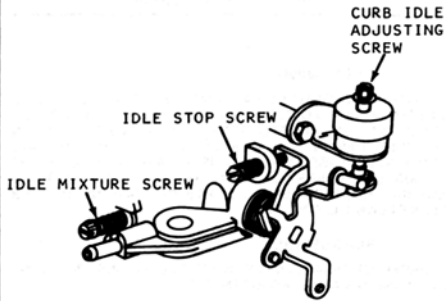
ROTATE CHOKE COVER AGAINST SPRING TENSION. SET MARK ON COVER TO SPECIFIED POINT ON CHOKE HOUSING.



LATE MODELS WITH LOCKING LUG ON COVER AND RETAINER ARE NON ADJUSTABLE

AUTOMATIC CHOKE ADJUSTMENT FIG. 6

USE FACTORY CAR MANUAL PROCEDURE FOR SETTING SLOW IDLE AND SPECIFICATIONS LISTED ON ENGINE DECAL.



IDLE ADJUSTMENT FIG. 7

1 CURB IDLE SPEED ADJUSTED. DISCONNECT AND PLUG EGR SIGNAL. USE JUMPER WIRE TO GROUND IDLE STOP SWITCH. A/C OFF.

2 DISCONNECT ENGINE COOLING FAN AT RADIATOR AND COMPLETE CIRCUIT AT PLUG WITH JUMPER WIRE TO ENERGIZE FAN.

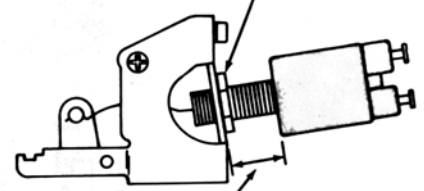


3 PLACE FAST IDLE SCREW ON SLOWEST SPEED STEP. ADJUST TO SPECIFIED R.P.M. (CHOKE VALVE MUST BE FULLY OPEN).

4 REPOSITION SCREW ON CAM AFTER EACH ADJUSTMENT TO PROVIDE CORRECT THROTTLE CLOSING TORQUE AND SCREW POSITION.

FAST IDLE ADJUSTMENT FIG. 8

TIGHTEN LOCK NOT SECURELY.



1 LOOSEN LOCKNUT AND ADJUST THROTTLE TRANSDUCER TO A 35/64" CLEARANCE FIT BETWEEN BRACKET AND TRANSDUCER.

TRANSDUCER ADJUSTMENT FIG. 9

ADJUSTMENT DATA TABLE

APPLICATION	FLOAT LEVEL	FLOAT DROP	PUMP PIN POSITION	CHOKE PULLDOWN	AUTO CHOKE	FAST IDLE R.P.M.
CHRYSLER PRODUCTS						
1978	ALL	1/2"	1 7/8"	NO. 2	070"	2 NR 1100
1979-80	M/T	1/2"	1 7/8"	NO. 2	070"	2 NR 1400
1979-80	A/T	1/2"	1 7/8"	NO. 2	040"	2 NR 1700
CARB. NO. R9109A	M/T	1/2"	1 7/8"	NO. 2	100"	2 NR 1400
1981						
1.7L ENG.	M/T	1/2"	1 7/8"	NO. 2	070"	N/A 1400
	A/T	1/2"	1 7/8"	NO. 2	040"	N/A 1400
2.2L ENG.	M/T	1/2"	1 7/8"	NO. 2	070"	N/A 1300
	A/T	1/2"	1 7/8"	NO. 2	.060"	N/A 1300
1982						
1.7L ENG.	M/T	1/2"	1 7/8"	NO. 2	130"	N/A 1400
	A/T	1/2"	1 7/8"	NO. 2	080"	N/A 1400
2.2L ENG.	M/T	1/2"	1 7/8"	NO. 3	060"	N/A 1200
	A/T	1/2"	1 7/8"	NO. 3	060"	N/A 1500
2.2L ENG CAN	M/T	1/2"	1 7/8"	NO. 3	130"	N/A 1400
	A/T	1/2"	1 7/8"	NO. 2	120"	N/A 1400
1983						
1.6L ENG.	M/T	1/2"	1 7/8"	NO. 2	055"	N/A 1200
	A/T	1/2"	1 7/8"	NO. 3	.055"	N/A 1300
2.2L ENG.	M/T	1/2"	1 7/8"	NO. 3	.055"	N/A 1500
	A/T	1/2"	1 7/8"	NO. 3	.055"	N/A 1500
2.2L ENG CAN	ALL/T	1/2"	1 7/8"	NO. 2	.070"	N/A 1400
1984						
2.2L ENG. (ALL)		1/2"	1 7/8"	NO. 3	.070"	N/A E/D

N/A=NON ADJUSTABLE E/D=ENGINE DECAL