

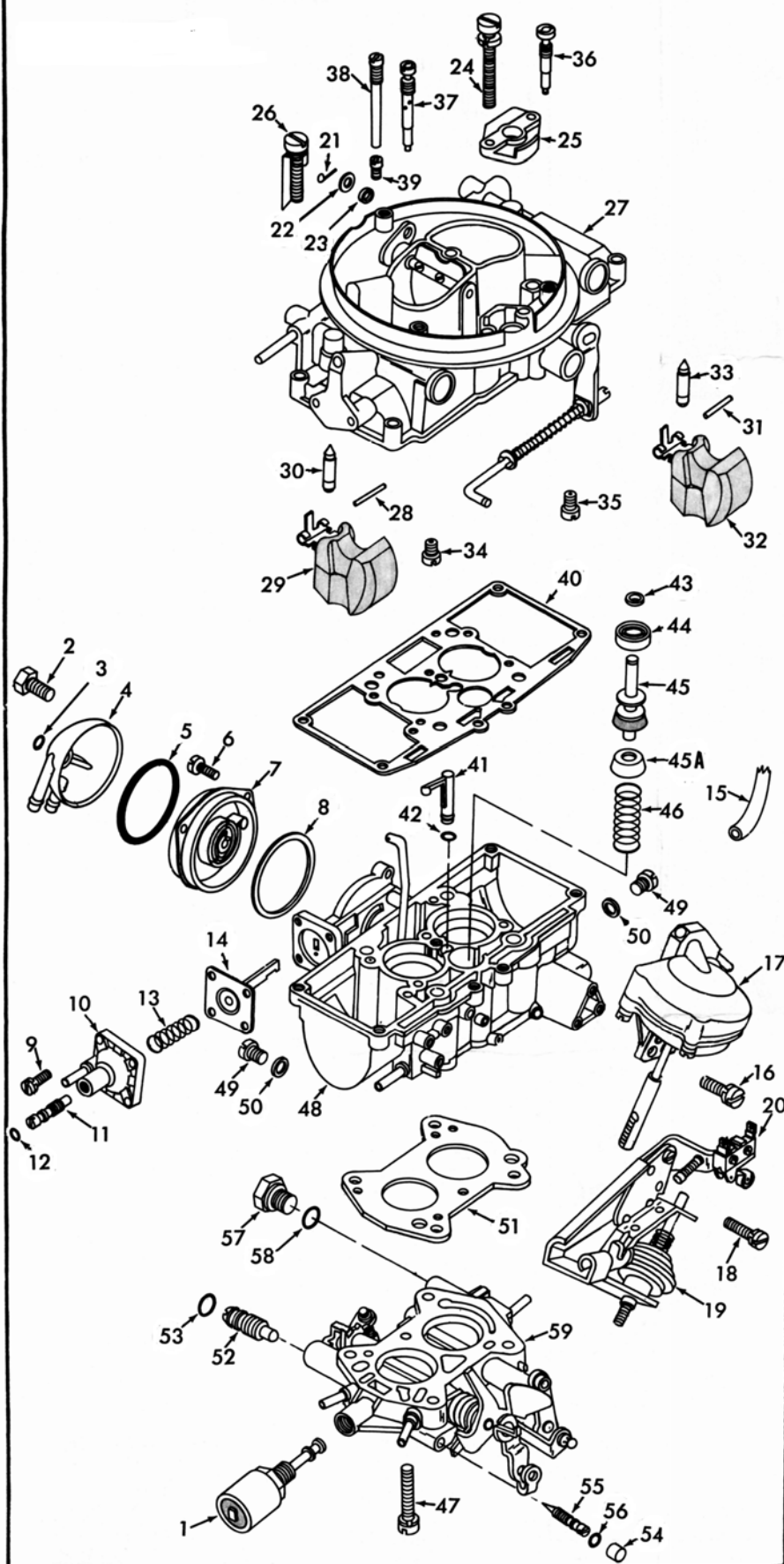
INSTRUCTION SHEET

ZENITH CARBURETOR MODEL 32/32-2B2

50-522-1

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: NEEDLE SEATS AND AIR CORRECTION JETS ARE PRESSED INTO BOWL COVER, THEY OR NOT REMOVABLE. HOSE CONNECTION TUBES HAVE COLOR CODED PLASTIC RINGS DO NOT REMOVE. DO NOT DISASSEMBLY SECONDARY DIAPHRAGM ASSY. UNLESS NEW DIAPHRAGM IS NEEDED. RECORD SIZES OF JETS BELOW FOR REASSEMBLY REFERENCE.

NOMENCLATURE

REF. NO.	REF. NO.
1. SOLENOID- IDLE SHUT OFF	31. PIN- SECONDARY FLOAT
2. BOLT- CHOKE WATER HOUSING	32. SECONDARY FLOAT ASSY.
3. O RING- BOLT	33. NEEDLE- SECONDARY
4. WATER HOUSING- CHOKE	34. JET- PRIMARY MAIN
5. O-RING-WATER HOUSING	35. JET- SECONDARY MAIN
6. SCREW (3)- COVER RETAINING RING	36. JET- SECONDARY IDLE
7. CHOKE COVER, COIL & RETAINING RING	37. JET- PRIMARY IDLE
8. GASKET- CHOKE COVER	38. JET- AUX. AIR
9. SCREW & LOCKWASHER (4)- COVER	39. JET- AUX. FUEL
10. COVER- DIAPHRAGM	40. GASKET- BOWL COVER
11. ADJ. SCREW	41. NOZZLE- PUMP
12. O RING- ADJ. SCREW	42. O RING- PUMP NOZZLE
13. SPRING- DIAPHRAGM	43. FELT RING- PUMP STEM
14. DIAPHRAGM ASSY.- CHOKE VACUUM	44. RETAINER- PUMP
15. HOSE- SECONDARY	45. PUMP ASSY.
16. SCREW & LOCKWASHER (3)- SEC. VAC. UNIT	45A. PUMP CUP
17. SECONDARY VAC. UNIT ASSY.	46. SPRING- PUMP RETURN
18. SCREW & LOCKWASHER (3)- DASHPOT, RELAY SWITCH BRACKETS	47. SCREW & LOCKWASHER- THROTTLE BODY
19. DASHPOT & BRACKET ASSY. RELAY SWITCH & BRACKET ASSY.	48. BOWL ASSY.
20. COTTER PIN- CHOKE ROD	49. PLUG (2)- BOWL DRAIN
21. WASHER- CHOKE ROD	50. GASKET (2)- DRAIN PLUG
22. BUSHING- CHOKE SHAFT LEVER (PLASTIC)	51. GASKET- THROTTLE BODY
23. SCREW & LOCKWASHER (2)- BOWL COVER & PLATE	52. SCREW- IDLE SPEED
24. PLATE- BOWL COVER	53. O RING- IDLE SPEED SCREW
25. SCREW & LOCKWASHER (4)- BOWL COVER	54. CAP- IDLE ADJUSTING. SCREW
26. SCREW & LOCKWASHER (4)- BOWL COVER ASSY.	55. SCREW- IDLE MIXTURE ADJ.
27. PIN- PRIMARY FLOAT	56. O RING- IDLE ADJ. SCREW
28. PRIMARY FLOAT ASSY.	57. PLUG- THROTTLE BODY
29. NEEDLE- PRIMARY	58. GASKET- PLUG
	59. 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 BODY IS FREE OF ALL CARBON DEPOSITS. WASH 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, SWITCHES, FLOATS, CHOKE COVER OR RUBBER PARTS IN SOLVENTS.

REASSEMBLY

USING ESSENTIALLY THE REVERSE ORDER OF DISASSEMBLY GIVING SPECIAL ATTENTION TO THE FOLLOWING SPECIAL INSTRUCTIONS.

SPECIAL INSTRUCTIONS

MAKE SURE ALL JET ORIFICES ARE CLEAN AND OPEN. CLEAN WITH COMPRESSED AIR. DO NOT USE WIRE TO CHECK FOR CLOGGED ORIFICES.

IDLE ADJUSTING SCREW (55)- TURN SCREW IN UNTIL LIGHTLY SEATED THEN BACK OUT 1 3/4 TURNS.

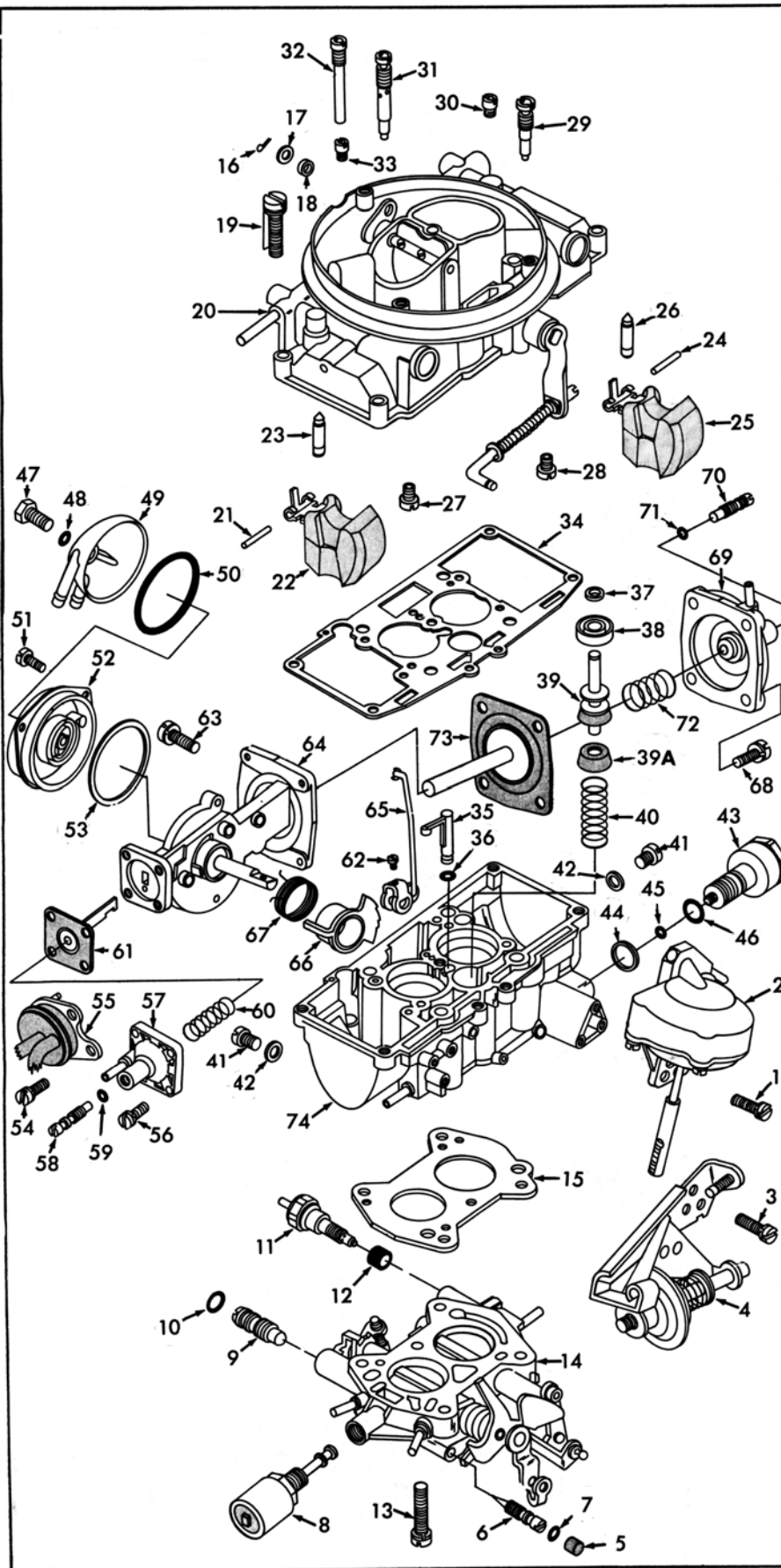
IDLE SPEED SCREW (52)- TURN SCREW IN UNTIL LIGHTLY SEATED, THEN BACK OUT 3 1/4 TURNS.

CHECK THE THERMOSTATIC SPRING IN HOUSING (ITEM #7) FOR DAMAGE. IF IT IS DISTORTED OR "KINKED", REPLACE THE ASSEMBLY. MAKE SURE THE ELECTRICAL HEATING ELEMENT IS NOT BROKEN. THIS CAN BE CHECKED WITH AN OHMMETER OR CONNECTED TO A CORRECT VOLTAGE BATTERY FOR A FEW MINUTES TO SEE IF IT WARMS UP. (BE SURE TO GROUND THE METAL PART OF THE HOUSING IN ORDER TO COMPLETE THE CIRCUIT.) WHEN INSTALLING ASSEMBLY WITH SPRING AND HEATER ELEMENT, CAREFULLY ROTATE ASSEMBLY COUNTERCLOCKWISE, BEING SURE THE LOOP ON COIL END ENGAGES WITH THE LEVER ON CHOKE SHAFT. CONTINUE ROTATING UNTIL INDEX MARKS ALIGN, THEN TIGHTEN SCREWS SECURELY.

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NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW & LOCKWASHER (3)- SEC. VAC. UNIT.	39A. PUMP CUP
2. SECONDARY VAC. UNIT ASSY.	40. SPRING- PUMP RETURN
3. SCREW & LOCKWASHER (3)- DASHPOT BRACKET	41. PLUG (2)- BOWL DRAIN
4. DASHPOT & BRACKET ASSY.	42. GASKET (2)- DRAIN PLUG
5. CAP- IDLE ADJUSTING SCREW	43. VAC. VALVE ASSY.
6. SCREW- IDLE MIXTURE ADJ.	44. GASKET- VAC. VALVE
7. O-RING- IDLE ADJ. SCREW	45. O-RING- VAC. VALVE
8. SOLENOID- IDLE SHUT OFF	46. O-RING- VAC. VALVE
9. SCREW- IDLE SPEED	47. BOLT- CHOKE WATER HOUSING
10. O-RING- IDLE SPEED SCREW	48. O-RING- BOLT
11. AUX. AIR/FUEL JET	49. WATER HOUSING- CHOKE
12. GASKET- AUX. AIR/FUEL JET	50. O-RING- WATER HOUSING CHOKE
13. SCREW & LOCKWASHER- THROTTLE BODY	51. SCREW (3)- COVER RETAINING RING
14. THROTTLE BODY ASSY.	52. CHOKE COVER, COIL & RETAINING RING
15. GASKET- THROTTLE BODY	53. GASKET- CHOKE COVER
16. COTTER PIN- CHOKE ROD	54. SCREW & LOCKWASHER (2)- VAC. VALVE
17. WASHER- CHOKE ROD	55. VALVE ASSY.- VAC. DELAY
18. BUSHING- CHOKE SHAFT LEVER (PLASTIC)	56. SCREW & LOCKWASHER (2)- COVER
19. SCREW & LOCKWASHER (4)- BOWL COVER	57. COVER- DIAPHRAGM
20. BOWL COVER ASSY.	58. ADJUSTING SCREW
21. PIN- PRIMARY FLOAT	59. O-RING- ADJ. SCREW
22. PRIMARY FLOAT ASSY.	60. SPRING- DIAPHRAGM
23. NEEDLE- PRIMARY	61. DIAPHRAGM ASSY.- CHOKE VAC.
24. PIN- SECONDARY FLOAT	62. SCREW- LEVER
25. SECONDARY FLOAT ASSY.	63. SCREW & LOCKWASHER (3)- CHOKE DIAPH. HOUSING
26. NEEDLE- SECONDARY	64. CHOKE DIAPHRAGM HOUSING
27. JET- PRIMARY MAIN	65. LEVER & ROD ASSY.
28. JET- SECONDARY MAIN	66. FAST IDLE CAM
29. JET- SECONDARY IDLE	67. SPRING- FAST IDLE CAM
30. JET- AIR	68. SCREW & LOCKWASHER (4)- COVER
31. JET- PRIMARY IDLE	69. COVER DIAPHRAGM
32. JET- AUX. AIR	70. ADJUSTING SCREW
33. JET- AUX. FUEL	71. O-RING- ADJ. SCREW
34. GASKET- BOWL COVER	72. SPRING- DIAPHRAGM
35. NOZZLE- PUMP	73. DIAPHRAGM ASSY.- CHOKE (LARGE)
36. O-RING- PUMP NOZZLE	74. BOWL ASSY.
37. SEAL- PUMP STEM	
38. RETAINER- PUMP	
39. PUMP 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 BODY IS FREE OF ALL CARBON DEPOSITS, WASH 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, VALVE ASSYS, FLOATS, CHOKE COVER, OR RUBBER PARTS IN SOLVENTS.

REASSEMBLY

USING ESSENTIALLY THE REVERSE ORDER OF DISASSEMBLY GIVING SPECIAL ATTENTION TO THE FOLLOWING SPECIAL INSTRUCTIONS.

SPECIAL INSTRUCTIONS

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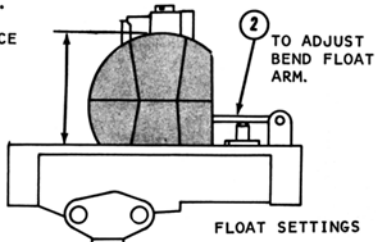
IDLE ADJUSTING SCREW (6)- TURN SCREW IN UNTIL LIGHTLY SEATED THEN BACK OUT 1 1/4 TURNS.

IDLE SPEED SCREW (9)- TURN SCREW IN UNTIL LIGHTLY SEATED, THEN BACK OUT 3 1/4 TURNS.

CHECK THE THERMOSTATIC SPRING IN HOUSING (ITEM 52) FOR DAMAGE. IF IT IS DISTORTED OR "KINKED", REPLACE THE ASSEMBLY. MAKE SURE THE ELECTRICAL HEATING ELEMENT IS NOT BROKEN. THIS CAN BE CHECKED WITH AN OHMMETER OR CONNECTED TO A CORRECT VOLTAGE BATTERY FOR A FEW MINUTES TO SEE IF IT WARMS UP. (BE SURE TO GROUND THE METAL PART OF THE HOUSING IN ORDER TO COMPLETE THE CIRCUIT.) WHEN INSTALLING ASSEMBLY WITH SPRING AND HEATER ELEMENT, CAREFULLY ROTATE ASSEMBLY COUNTERCLOCKWISE, BEING SURE THE LOOP ON COIL END ENGAGES WITH THE LEVER ON CHOKE SHAFT. CONTINUE ROTATING UNTIL INDEX MARKS ALIGN, THEN TIGHTEN SCREWS SECURELY.

ADJUSTMENTS

- 1 BOWL COVER INVERTED. FLOAT RESTING ON NEEDLE OF ITS OWN WEIGHT. MEASURE DISTANCE BETWEEN BOTTOM OF FLOAT AND GASKET SURFACE OF BOWL COVER.



FLOAT SETTINGS

CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

PRIMARY SIDE (1ST STAGE)	28 MM
	1 7/64"
SECONDARY SIDE (2ND STAGE)	30 MM
	1 3/16"

DRY FLOAT LEVEL ADJUSTMENT

FIG. 1.

- 1 REMOVE PLASTIC CAP. TURN STOP SCREW ANTICLOCKWISE UNTIL THERE IS A GAP BETWEEN THROTTLE LEVER & SCREW.
- 2 TURN SCREW IN CLOCKWISE UNTIL IT JUST TOUCHES LEVER THEN TURN AN ADDITIONAL 1/4 TURN.

THROTTLE VALVE, BASIC ADJUSTMENT.

FIG. 2.

- 1 CHOKE VALVE COMPLETELY CLOSED.
- 2 OPEN & CLOSE THROTTLE TO PROPERLY SEAT FAST IDLE SCREW ON FAST IDLE CAM.
- 3 MEASURE GAP BETWEEN LOWER EDGE OF THROTTLE VALVE & BORE OF CARB.
- 4 TO ADJUST TURN FAST IDLE SCREW.

THROTTLE VALVE GAP. (FAST IDLE ADJUSTMENT).

FIG. 3.

- 1 OPEN CHOKE AND CLOSE PRIMARY THROTTLE VALVE.
- 2 CAREFULLY TURN ADJUSTING SCREW IN UNTIL ALL CLEARANCE IS REMOVED FROM LEVER.
- 3 BACK OUT ADJUSTING SCREW 1/4 TURN. (CHECK TO MAKE SURE THERE IS A NOTICEABLE CLEARANCE AT LEVER).
- 4 DISCONNECT SECONDARY DIAPHRAGM ROD. DIAPHRAGM COMPLETELY RELEASED, CHECK THAT ROD END IS CENTERED ON BALL.
- 5 TO ADJUST LOOSEN LOCKNUT AND TURN DIAPHRAGM ROD.

SECOND STAGE ADJUSTMENT

FIG. 4.

- 1 OPEN THROTTLE, HOLD CHOKE VALVE COMPLETELY CLOSED.
- 2 PUSH IN ON DIAPHRAGM ROD UNTIL IT IS SEATED.
- 3 MEASURE DISTANCE BETWEEN LOWER EDGE OF CHOKE VALVE AND AIR HORN WALL.
- 4 TO ADJUST TURN SCREW IN DIAPHRAGM COVER.

ONE VACUUM UNIT CARB. CHOKE VALVE GAP. (CHOKE PULL OFF ADJ.)

FIG. 5.

- 1 OPEN THROTTLE, HOLD CHOKE VALVE COMPLETELY CLOSED. ADJUST FIRST STAGE (FIRST).
- 2 PUSH IN ON DIAPHRAGM ROD UNTIL IT IS SEATED.
- 3 MEASURE DISTANCE BETWEEN LOWER EDGE OF CHOKE VALVE AND AIR HORN WALL.
- 4 TO ADJUST TURN SCREW IN DIAPHRAGM COVER.
- 5 TO ADJUST TURN SCREW IN DIAPHRAGM COVER.

REPEAT STEPS 1, 2, 3, 5, FOR STAGE 2.

FIRST STAGE 3.5 MM .140"
SECOND STAGE 5.00 MM .203"

TWO VACUUM UNIT CARB. CHOKE VALVE GAP. (CHOKE PULL OFF ADJ.)

FIG. 6.

- 1 FILL FUEL BOWL TO PROPER LEVEL.
- 2 HOLD FUNNEL AND MEASURING GLASS UNDER CARBURETOR.
- 3 FULLY OPEN THROTTLE VALVE SLOWLY 5 TIMES.
- 4 DIVIDE AMOUNT OF FUEL IN MEASURING GLASS BY 5.
- 5 COMPARE WITH NOMINAL VALUE. 0.75 CM³ TO 1.05 CM³ PER STROKE
- 6 TO ADJUST TURN ADJUSTER ON END OF ACTUATING ROD.

FUEL INJECTION QUANTITY. (PUMP ADJUSTMENT). (CARBURETOR REMOVED)

FIG. 7.

- 1 OPEN CHOKE AND CLOSE PRIMARY THROTTLE VALVE
- 2 PUSH DASHPOT ROD IN ALL THE WAY
- 3 MEASURE DISTANCE BETWEEN END OF ROD & THROTTLE LEVER
- 4 TO ADJUST LOOSEN LOCKNUT & TURN DASHPOT

(MANUAL TRANSMISSION) DASHPOT ADJUSTMENT

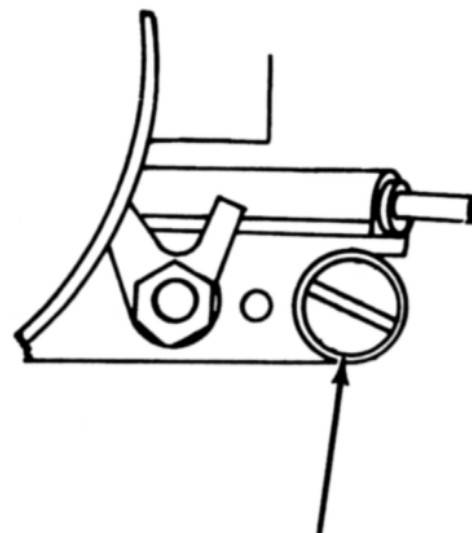
FIG. 8.

ADJUSTMENT

SET CURB IDLE BY FOLLOWING
CAR MANUFACTURES SERVICE
MANUAL PROCEDURE, AND
ENGINE DECAL FOR
SPECIFICATIONS.



IDLE MIXTURE ADJ.



IDLE SPEED ADJ.

IDLE ADJUSTMENT

FIG. 9