

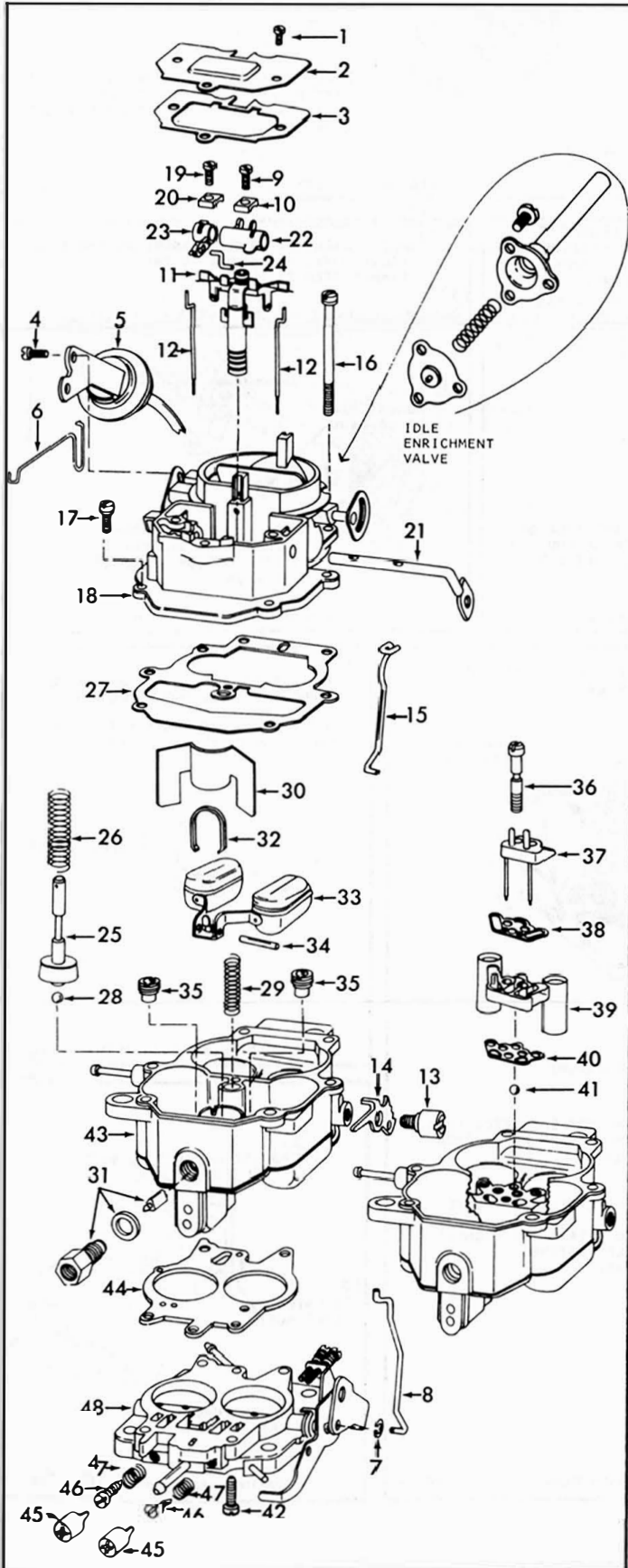
INSTRUCTION SHEET

OFF VEHICLE CARBURETOR SERVICE

CARTER MODEL - BBD 1 1/4" SOLID FUEL

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. ON MODELS EQUIPPED WITH MANUAL ALTITUDE MIXTURE ADJUSTMENT DO NOT ATTEMPT TO REMOVE AIR BLEED ADJUSTING SCREW LOCATED IN VENTURI COVER. TURN IDLE LIMITER CAPS TO STOP. REMOVE PLASTIC CAPS. TURN IDLE ADJUSTING SCREWS IN (COUNTING NUMBER OF TURNS) TO A LIGHTLY SEATED POSITION. RECORD FOR REASSEMBLY.

NOMENCLATURE

| REF. NO. | REF. NO. |
|---|--|
| 1. SCREW (3) - DUST COVER | 25. PUMP ASSY. |
| 2. COVER - OUST | 26. SPRING - PUMP |
| 3. GASKET - DUST COVER | 27. GASKET - BOWL COVER |
| 4. SCREW (2) - CHOKE PULL OFF | 28. BALL - PUMP CHECK (LARGE) |
| 5. CHOKE PULL OFF ASSY. | 29. SPRING - VACUUM PISTON |
| 6. LINK - CHOKE PULL OFF | 30. BAFFLE |
| 7. RETAINER - PUMP ROD | 31. NEEDLE, SEAT & GASKET ASSY. |
| 8. ROD - PUMP | 32. RETAINER - FLOAT PIN |
| 9. SCREW - METERING ROD ARM WASHER | 33. FLOAT ASSY. |
| 10. WASHER - METERING ROD ARM | 34. PIN - FLOAT |
| 11. PISTON ASSY. - VACUUM | 35. JET (2) - MAIN |
| 12. ROD (2) - METERING | 36. SCREW (2) - VENTURI CLUSTER |
| 13. SCREW - FAST IDLE CAM | 37. COVER - VENTURI |
| 14. CAM - FAST IDLE | 38. GASKET - VENTURI COVER |
| 15. ROD - FAST IDLE | 39. CLUSTER ASSY. - VENTURI |
| 16. SCREW & LOCKWASHER (2) - BOWL COVER | 40. GASKET - VENTURI CLUSTER |
| 17. SCREW & LOCKWASHER (4) - BOWL COVER | 41. BALL - PUMP DISC. CHECK (SMALL) |
| 18. COVER ASSY. - BDWL | 42. SCREW & LOCKWASHER (2) - THROTTLE BODY |
| 19. SCREW - PUMP ARM WASHER | 43. BOWL ASSY. |
| 20. WASHER - PUMP ARM | 44. GASKET - THROTTLE BODY |
| 21. SHAFT - PUMP | 45. CAP (2) - IDLE LIMITER |
| 22. ARM - METERING ROD | 46. NEEDLE (2) - IDLE ADJUSTING |
| 23. ARM - PUMP LINK | 47. SPRING (2) - IDLE ADJ. NEEDLE |
| 24. LINK - PUMP | 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 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 ASSEMBLY WITH ATTACHED PLASTIC PARTS FOR A LONG PERIOD OF TIME. DO NOT SOAK ANY PARTS CONTAINING RUBBER OR DIAPHRAGM ASSYS.

REASSEMBLY

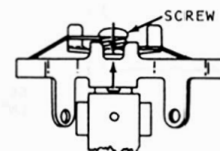
REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR CARBURETOR BEING SERVICED.

SPECIAL INSTRUCTIONS

IDLE ADJUSTING NEEDLES (46) - TURN IN UNTIL LIGHTLY SEATED THEN BACK OUT 3/4 TO 1 TURN OR NUMBER OF TURNS RECORDED ON DISASSEMBLY.

RETAINER FLOAT PIN (32) - BE SURE RETAINER IS SEATING ON FLOAT PIN AND NOT HUNG UP IN GUIDE SLOTS.

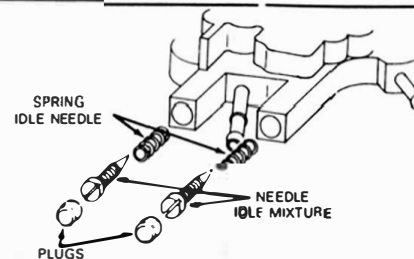
PUMP PLUNGER (25) - LIGHTLY LUBRICATE CUP BEFORE INSTALLING.



1974-83 .035" GAP

STEP UP PISTON QUALIFYING ADJUSTMENT

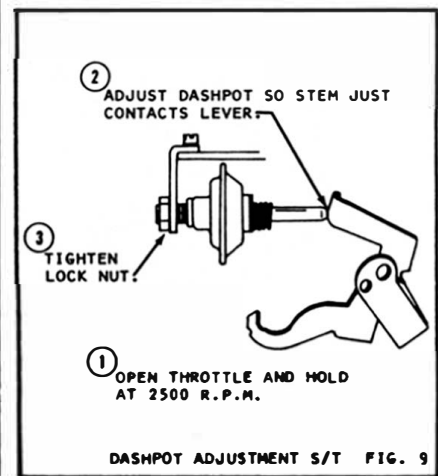
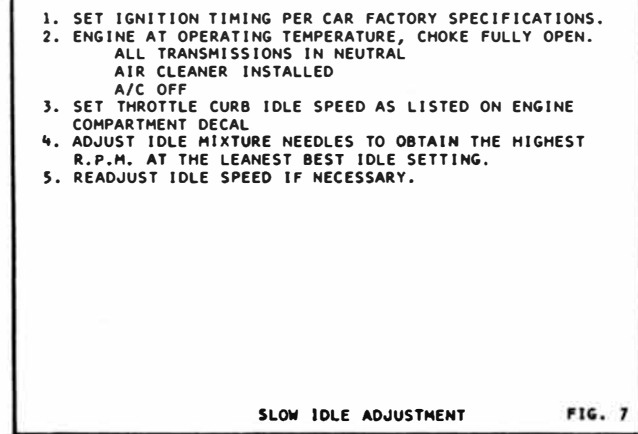
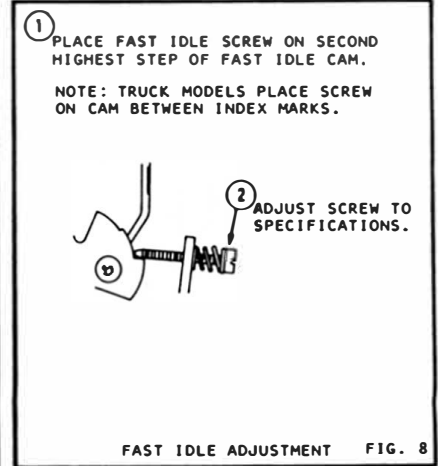
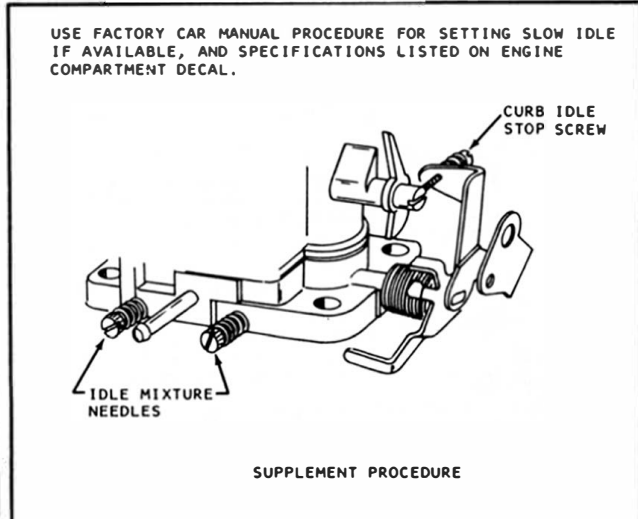
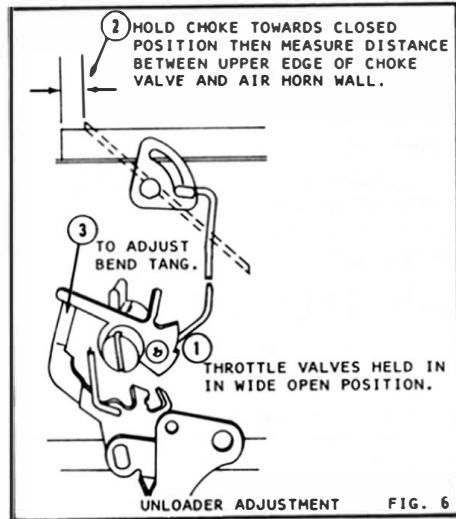
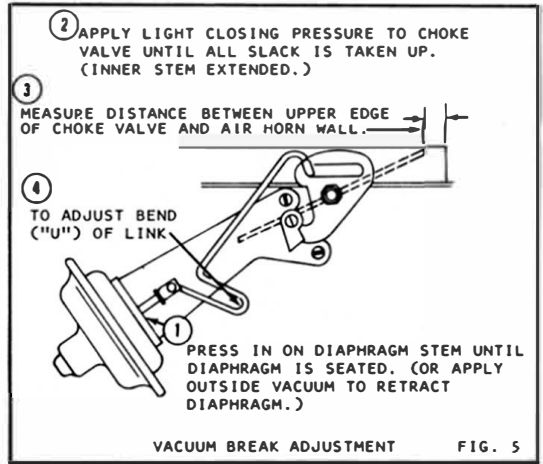
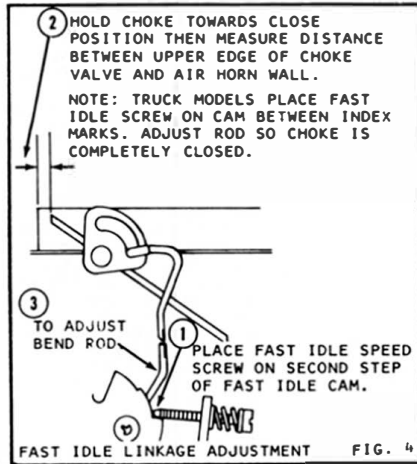
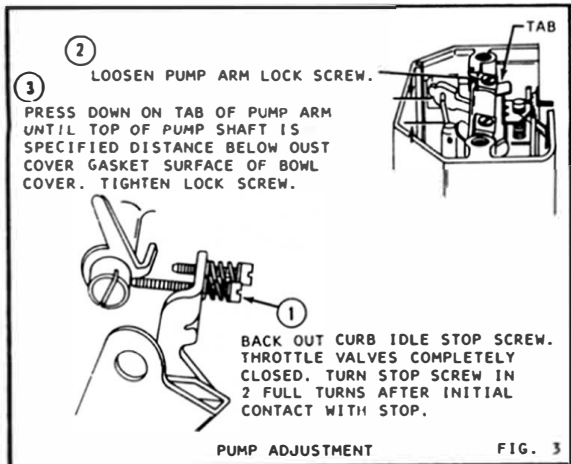
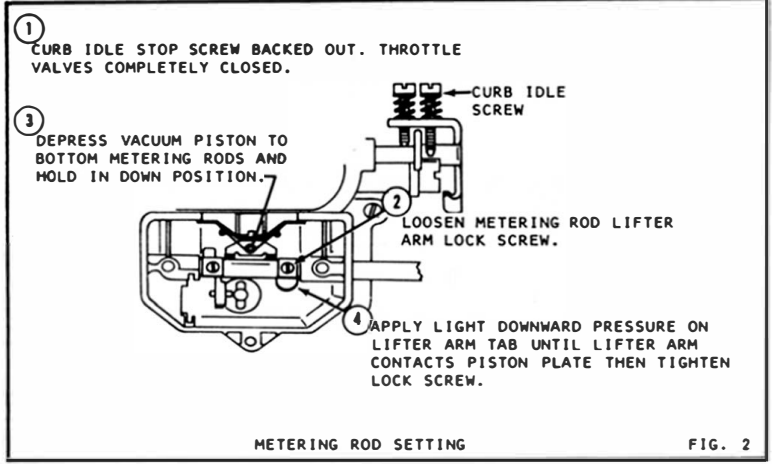
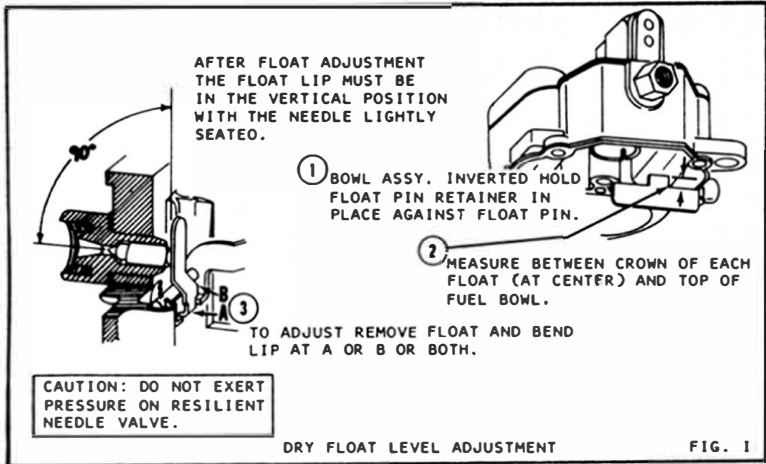
BEFORE INSTALLING, ADJUST THE GAP (AS ILLUSTRATED) BY TURNING ALLEN HEAD SCREW ON TOP OF PISTON (RECORD NUMBER OF TURNS AND DIRECTION TO OBTAIN THIS DIMENSION FOR THIS MUST BE RESET TO ITS ORIGINAL POSITION AFTER THE VACUUM STEP UP PISTON ADJUSTMENT HAS BEEN MADE.)



FACTORY SEALED IDLE MIXTURE NEEDLES

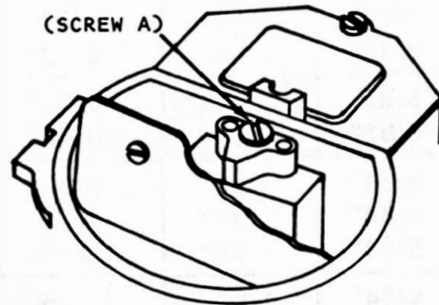
ON SOME MODELS TO REMOVE SEALS, DRILL A SMALL HOLE IN THE CENTER OF EACH PLUG USING A SUITABLE PULLER. REMOVE BOTH PLUGS

ADJUSTMENTS



ADJUSTMENTS

- 1 REFER TO ENGINE DECAL FOR PROPER SETTING.

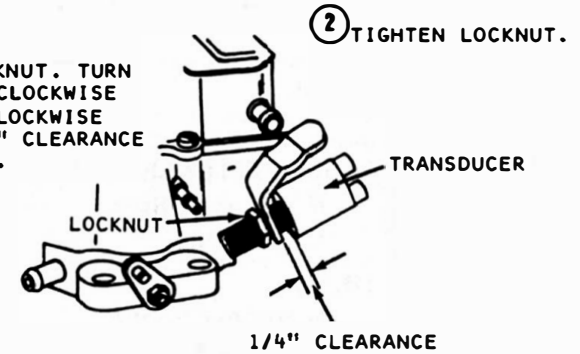


- 2 TURN SCREW (A) COUNTERCLOCKWISE FROM SEATED POSITION FOR HIGH ALTITUDE OPERATION.
- 3 TURN SCREW (A) CLOCKWISE TO SEATED POSITION FOR SEA LEVEL OPERATION.

HIGH ALTITUDE ADJUSTMENT
(IF EQUIPPED)

FIG. 10

- 1 LOOSEN LOCKNUT. TURN TRANSDUCER CLOCKWISE OR COUNTERCLOCKWISE UNTIL A 1/4" CLEARANCE IS OBTAINED.

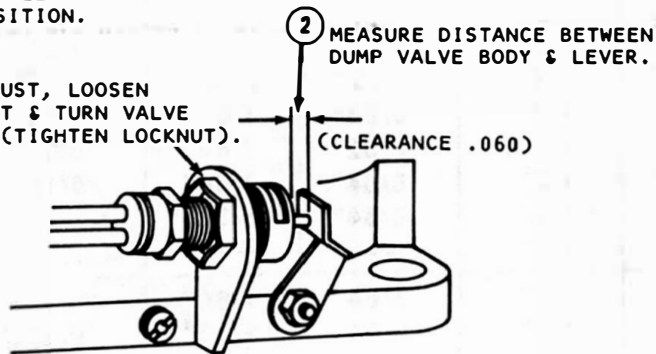


TRANSDUCER THROTTLE
POSITION ADJUSTMENT

FIG. 11

- 1 THROTTLE VALVES HELD IN WIDE OPEN POSITION.

- 3 TO ADJUST, LOOSEN LOCKNUT & TURN VALVE BODY. (TIGHTEN LOCKNUT).



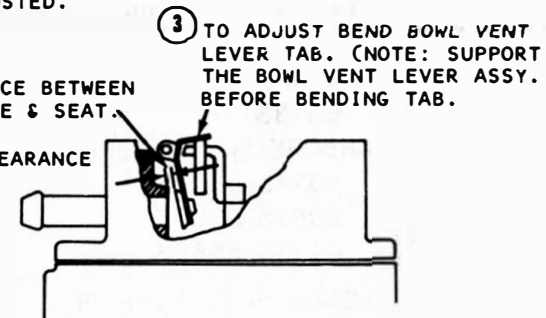
E.G.R. DUMP VALVE ADJUSTMENT

FIG. 12

- 1 PUMP STROKE AND CURB IDLE SPEED ADJUSTED.

- 2 MEASURE DISTANCE BETWEEN BOWL VENT VALVE & SEAT.

.080 CLEARANCE



BOWL VENT ADJUSTMENT

FIG. 13

- 3 TO ADJUST BEND BOWL VENT LEVER TAB. (NOTE: SUPPORT THE BOWL VENT LEVER ASSY. BEFORE BENDING TAB.)

ADJUSTMENT DATA TABLE

| YEAR | APPLICATION | | DRY FLOAT LEVEL | PUMP SETTING | FAST IDLE LINKAGE | VACUUM BREAK | UNLOADER | FAST IDLE R.P.M. |
|---------|--|-------|-----------------------|-----------------|-------------------------|-----------------|----------|------------------------|
| 1974 | CHRYSLER PRODUCTS PASSENGER CARS | M/T | 1/4" | 1/2" | 3/32" | 9/64" | 9/32" | 1500 |
| | | A/T | 1/4" | 1/2" | 3/32" | 7/64" | 9/43" | 1700 |
| 1974 | TRUCK | M/T | 1/4" | 1/2" | 3/32" | 5/32" | 9/32" | 1900 |
| | | A/T | 1/4" | 1/2" | 3/32" | 7/64" | 9/32" | 1900 |
| 1975 | PASSENGER CARS NON CALIFORNIA CALIFORNIA | M/T | 1/4" | 1/2" | 5/64" | 1/8" | 9/32" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 5/64" | 5/16" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 7/64" | 5/16" | 1500 |
| 1975 | TRUCK NON CALIFORNIA CALIFORNIA | M/T | 1/4" | 1/2" | 5/64" | 1/8" | 5/16" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 7/64" | 5/16" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 5/32" | 5/16" | 1500 |
| 1976 | PASSENGER CARS CARBURETOR NUMBERS 8072S, 8069S 8070S, 8077S 8099S | M/T | 1/4" | 1/2" | 5/64" | 1/8" | 9/32" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 5/64" | 5/16" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 7/64" | 5/16" | 1500 |
| | | A/T | 1/4" | 15/32" | 5/64" | 7/64" | 5/16" | 1500 |
| 1976 | TRUCK CARBURETOR NUMBERS 8080S, 8082S, 8085S 6536S 8013S CARBURETOR NUMBERS 6537S 8014S, 8026S 8081S, 8108S 6585S, 6586S | M/T | 1/4" | 1/2" | 5/64" | 9/64" | 9/32" | • |
| | | M/T | 1/4" | 1/2" | 3/32" | 5/32" | 9/32" | 1700 |
| | | M/T | 1/4" | 1/2" | 5/64" | 1/8" | 5/16" | • |
| | | A/T | 1/4" | 1/2" | 3/32" | 7/64" | 9/32" | • |
| | | A/T | 1/4" | 1/2" | 5/64" | 7/64" | 5/16" | • |
| | | A/T | 1/4" | 1/2" | 5/64" | 5/32" | 5/16" | • |
| | | All/T | 1/4" | 1/2" | -- | -- | -- | * |
| 1977 | PASSENGER CAR 225" ENG. | M/T | 1/4" | 1/2" | 5/64" | 7/64" | 9/32" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 3/32" | 9/32" | 1500 |
| 1977 | PASSENGER CAR 318" ENG. | M/T | 1/4" | 1/2" | 5/64" | 9/64" | 5/16" | • |
| | | A/T | 1/4" | 1/2" | 5/64" | 7/64" | 5/16" | • |
| 1977 | TRUCK 225-1" ENG. | All/T | 1/4" | 1/2" | 5/64" | 3/32" | 9/32" | • |
| 1977 | TRUCK 318" ENG. CALIFORNIA | A/T | 1/4" | 1/2" | 5/64" | 7/64" | 5/16" | • |
| | | All/T | 1/4" | 1/2" | 5/64" | 9/64" | 5/16" | • |
| 1977-83 | TRUCK 318" ENG. CARBURETOR NUMBER 8146 CANADA 8147 CANADA | A/T | 1/4" | 1/2" | 5/64" | 5/64" | 5/16" | 1500 |
| | | M/T | 1/4" | 1/2" | 3/32" | 9/64" | 5/16" | 1500 |
| 1984 | TRUCK 318" ENG. CARB. NO. 8386 CANADA CARB. NO. 8387 CANADA | A/T | 1/4" | 1/2" | 5/64" | 5/64" | 5/16" | 1500 |
| | | M/T | 1/4" | 1/2" | 7/64" | 5/32" | 5/16" | 1700 |
| 1978-82 | TRUCK 225" ENG. CARBURETOR NUMBER 8176 CARBURETOR NUMBER 8352 | All/T | 1/4" | 15/32" | 5/64" | 5/64" | 9/32" | -- |
| | | | 1/4" | 1/2" | .070" | .130" | .310" | 1600 |
| 1978 | PASSENGER CAR 225" ENG. | M/T | 1/4" | 1/2" | 5/64" | 7/64" | 9/32" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 3/32" | 9/32" | 1600 |
| 1978 | PASSENGER CAR 318" ENG. | M/T | 1/4" | 1/2" | 5/64" | 5/32" | 9/32" | 1500 |
| | | A/T | 1/4" | 1/2" | 5/64" | 7/64" | 9/32" | 1500 |
| 1978-79 | TRUCK 225" ENG. | All/T | 1/4" | 15/32" | 5/64" | 7/64" | 9/32" | • |
| 1983 | CARB. NO. 8371 | | 1/4" | 31/64" | 5/64" | 9/32" | 9/32" | • |
| 1978-79 | TRUCK 318" ENG. | All/T | 1/4" | 15/32" | 5/64" | 7/64" | 9/32" | • |
| 1979 | PASSENGER CAR 225" ENG. | A/T | 1/4" | 15/32" | 5/64" | 7/64" | 9/32" | • |
| 1979 | PASSENGER CAR 318" ENG. | A/T | 1/4" | 15/32" | 5/64" | 7/64" | 9/32" | • |
| 1980 | PASSENGER CAR 225" ENG. | A/T | 1/4" | 1/2" | .070" | .100" | .280" | • |
| 1980 | PASSENGER CAR 318" ENG. | A/T | 1/4" | 1/2" | .070" | .130" | .280" | • |
| 1980 | PASSENGER CAR 360" ENG. CANADA | A/T | 1/4" | 1/2" | .070" | .110" | .280" | • |
| 1981-83 | PASSENGER CAR 225" ENG. CANADA | A/T | 1/4" | 1/2" | .070" | .100" | .280" | • |
| 1981-83 | PASSENGER CAR 318" ENG. CANADA | A/T | 1/4" | 1/2" | .070" | .130" | .280" | • |
| 1984 | PASS. CAR 318" ENG. CARB. NO. 8369 | A/T | 1/4" | 1/2" | .070" | .130" | .280" | • |
| | PASS. CAR 318" ENG. CARB. NO. 8385 | A/T | 1/4" | 15/32" | .070" | .130" | .280" | • |

*CHECK ENGINE COMPARTMENT LABEL.

REV. 1085