



## General Instructions

- Take lots of pictures as you take your carburetor apart. This will give you a reference of where things go.
- Using a cookie sheet with folded up sides will help keep parts from falling on the floor.
- We suggest not removing the throttle shaft, valves, or choke shaft unless they are corroded, or very dirty. These parts can be easily damaged and are difficult to re-assemble.
- Instruction sheets that come with our carburetor kits are somewhat generic. It may not match your parts exactly.
- Do NOT use WD-40 around your carburetor. It reacts with ethanol.
- Using Silicon Spray Lubricant on the gaskets will help with sticking in case you need to take the carburetor apart again.
- Be careful after taking the top of the carburetor off. Turning the carburetor upside down may cause parts to fall out and you won't know where they were.
- Screws and jets that are frozen can often be removed after heating outside the screw or jet.
- Stuck check balls can be removed by heating the outside of where the check ball resides and tapping the carburetor on the work bench.
- Do not discard any parts until complete done. You may have to refer for size, or matching.

### Cleaning:

- Clean with carburetor dis-assembled.
- Soak all parts except rubber & electrical in Simple Green for 2 hours. Aluminum parts will get discolored if left longer.
- Wash parts with hot water if available to remove all chemicals.
- Blow out each passage way taking special notice of the smaller ones. Test each passage that air goes through the entire passage.
- Blow out the idle mixture hole.

- Check any hole above the idle mixture hole (inside the bore). This is the idle discharge and often becomes plugged.
- A tooth brush can facilitate cleaning parts.
- Soda blasting, then washing again will make the carburetor look good any will clean any minor deposits.
- Any corrosion, or deposits that are hard to remove may indicate the passages are also corroded and the carburetor should be replaced.
- If your engine has been sitting for 6 months or more, the gas has probably turned, and the gas tank will need to be cleaned as well as the fuel lines. Flushing new gas through the tank will not be enough.

#### Assembly:

- Do NOT apply any gasket sealant on any of the gaskets. Gas will break sealant part and the particles will clog the small passages.
- Test your float.
  - Brass floats should be immersed into hot water. As the air inside expands any leak will be noticeable with air bubbles.
  - Plastic, or Nitrophyl floats should be weighed. The weight is in grams. Check our technical pages for any weight specification that we may have.
- Most gaskets will fit as expected, but you may have to trim some, especially under the venturis.
- Your kit may include multiple gaskets in order to get better coverage out of the kit. Use the one that fits the best. Look for any opening the gasket may leave allowing air into the carburetor. Some holes may be casting holes that don't lead to anything and do not have to be covered.
- Mounting gaskets for multiple bore carburetors do not have to have matching holes. Example a four-barrel gasket can be open in the middle instead of 4 holes as long as the carburetor has some kind of passage between bores. The passage is between primary, or secondary, not both.
- When adjusting the float be careful not to put any pressure on the needle. The viton tip is easily damaged.
- Most idle mixture screws can be cleaned using a soft wire wheel. Inspect for any scoring, which would indicate over tightening. Screw with scoring should be replaced.

#### Accelerator Pumps:

- On leather cups run your finger around the inside of the cup to break any manufacturer sealant.
- Apply 2 drops of oil to cups (leather, or rubber) before inserting into carburetor. Do not soak the cup in oil. The swelling of the cup needs to happen inside the carburetor. Allow the 2 drops of oil and the gas to do its job naturally.
- Twist the pump as you are inserting to help keep the cup from curling or folding over.
- Test your accelerator pump circuit before putting the top of the carburetor back on. Our technical pages have instructions on how to do this for most carburetor types.
- Pump wells are usually slight tapered, and the pump will not seal until it gets towards the bottom.

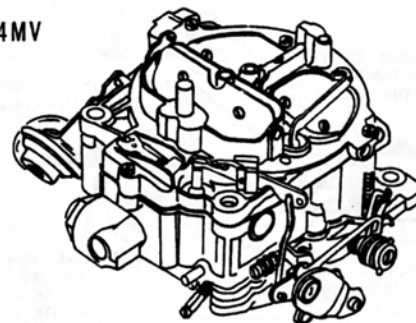
# INSTRUCTION SHEET

## ROCHESTER CARBURETOR—MODELS 4MC-4MV

50-360-2

### 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: REMOVING BOWL COVER (16) (GASKET (21) STAYS ON BOWL) LIFTING STRAIGHT UP BEING CAREFUL NOT TO BEND AIR BLEED TUBES WHICH ARE PERMANENTLY INSTALLED IN BOWL COVER. AIR VALVES, AIR VALVE SHAFT AND SECONDARY METERING ROD HANGER ARE CALIBRATED AND SHOULD NOT BE REMOVED. REMOVING POWER PISTON (22) AND METERING RODS (23) PULL STRAIGHT UP ON METERING ROD HANGER. A SLIGHT RESISTANCE WILL BE FELT. POWER PISTON (22) HAS A HOLDING CLIP TO KEEP ASSEMBLY IN PLACE FOR EASIER ASSEMBLY. INLET NEEDLE SEAT USED WITH NO. 31 NEEDLE AND ALL SECONDARY METERING DISCS ARE FACTORY STAKED AND SHOULD NOT BE REMOVED.

### NOMENCLATURE

| REF. NO.                                  | REF. NO.                                           |
|-------------------------------------------|----------------------------------------------------|
| 1. FILTER NUT - FUEL INLET                | 33. BALL - PUMP DISCHARGE                          |
| 2. GASKET - FILTER NUT                    | 34. JETS - PRIMARY (2)                             |
| 3. GASKET - FUEL FILTER                   | 35. SCREW - IDLE COMPENSATOR COVER (2)             |
| 4. FILTER - FUEL INLET                    | 36. COVER - IDLE COMPENSATOR                       |
| 5. SPRING - FUEL FILTER                   | 37. IDLE COMPENSATOR ASSY.                         |
| 6. SCREW - IDLE VENT VALVE                | 38. GASKET - IDLE COMPENSATOR                      |
| 7. VALVE - IDLE VENT                      | 39. SCREW - THROTTLE BODY (3)                      |
| 8. RETAINER - PUMP ROD                    | 40. THROTTLE BODY ASSY.                            |
| 9. ROD - PUMP                             | 41. NEEDLES - IDLE ADJ. (2)                        |
| 10. LEVER - IDLE VENT VALVE               | 42. SPRINGS - IDLE ADJ. NEEDLE (2)                 |
| 11. RETAINER - CHOKE ROD                  | 43. GASKET - THROTTLE BODY                         |
| 12. ROD - CHOKE                           | 44. HOSE - VACUUM 4MV                              |
| 13. SCREW - AIR HORN (4)                  | 45. SCREW - VACUUM BREAK CONTROL BRACKET ATTACHING |
| 14. SCREW - AIR HORN (3)                  | 46. VACUUM BREAK CONTROL & BRACKET ASSY. 4MV       |
| 15. SCREW - AIR HORN (2)                  | 47. CAM - FAST IDLE                                |
| 16. BOWL COVER ASSY.                      | 48. LEVER - SEC. LOCKOUT 4MV                       |
| 17. DASHPOT PISTON & ROD ASSY. 1965-66    | 49. LEVER - INTERMEDIATE CHOKE                     |
| 18. METERING RODS - SEC. (2)              | 50. SCREW - STAT RETAINER (3) 4MC                  |
| 19. PUMP ASSY.                            | 51. RETAINERS - STAT COVER (3) 4MC                 |
| 20. SPRING - PUMP RETURN                  | 52. STAT COVER & SPRING ASSY. 4MC                  |
| 21. GASKET - AIR HORN                     | 53. GASKET - STAT COVER 4MC                        |
| 22. POWER PISTON ASSY. - PRI.             | 54. PLATE - CHOKE BAFFLE 4MC                       |
| 23. METERING RODS - PRI. (2)              | 55. SCREW - STAT HOUSING ATT.                      |
| 24. SPRING - POWER PISTON                 | 56. HOUSING - CHOKE & VACUUM BREAK ASSY. 4MC       |
| 25. INSERT - FLOAT BOWL                   | 57. GASKET - CHOKE HOUSING 4MC                     |
| 26. HINGE PIN - FLOAT                     | 58. BOWL ASSY. - FLOAT                             |
| 27. FLOAT & LEVER ASSY.                   |                                                    |
| 28. PULL CLIP - FLOAT NEEDLE              |                                                    |
| 29. SCREW - NEEDLE DIAPHRAGM RETAINER (2) |                                                    |
| 30. RETAINER - NEEDLE DIAPH.              |                                                    |
| 31. NEEDLE & DIAPHRAGM ASSY.              |                                                    |
| 31A. NEEDLE, SEAT, GASKET ASSY.           |                                                    |
| 32. PLUG - PUMP DISC. BALL                |                                                    |

### CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE (1) A CARBURETOR CLEANING SOLVENT, (2) LACQUER THINNER OR (3) DENATURED ALCOHOL. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON 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 RUBBER OR PLASTIC PARTS IN SOLVENT. (FLOAT (27) VAC BREAK UNITS (46) (56) DASHPOT PISTON (17) PUMPS (19) BOWL VENT (7).)

### REASSEMBLY

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

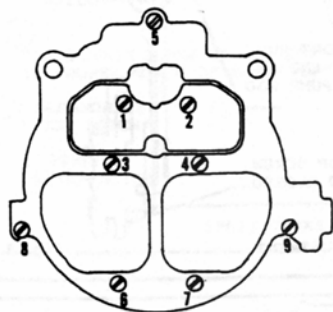
### SPECIAL INSTRUCTIONS

VACUUM BREAK CONTROL AND BRACKET ASSY. (46) OR VAC. UNIT (56) INSTALLATION. BE SURE FAST IDLE CAM (47), SECONDARY LOCKOUT LEVER (48) WHEN USED, AND GASKET (57) WHEN USED, AND INTERMEDIATE CHOKE LEVER (49) ARE IN PROPER PLACE BEFORE TIGHTENING SCREW (45) OR (55).

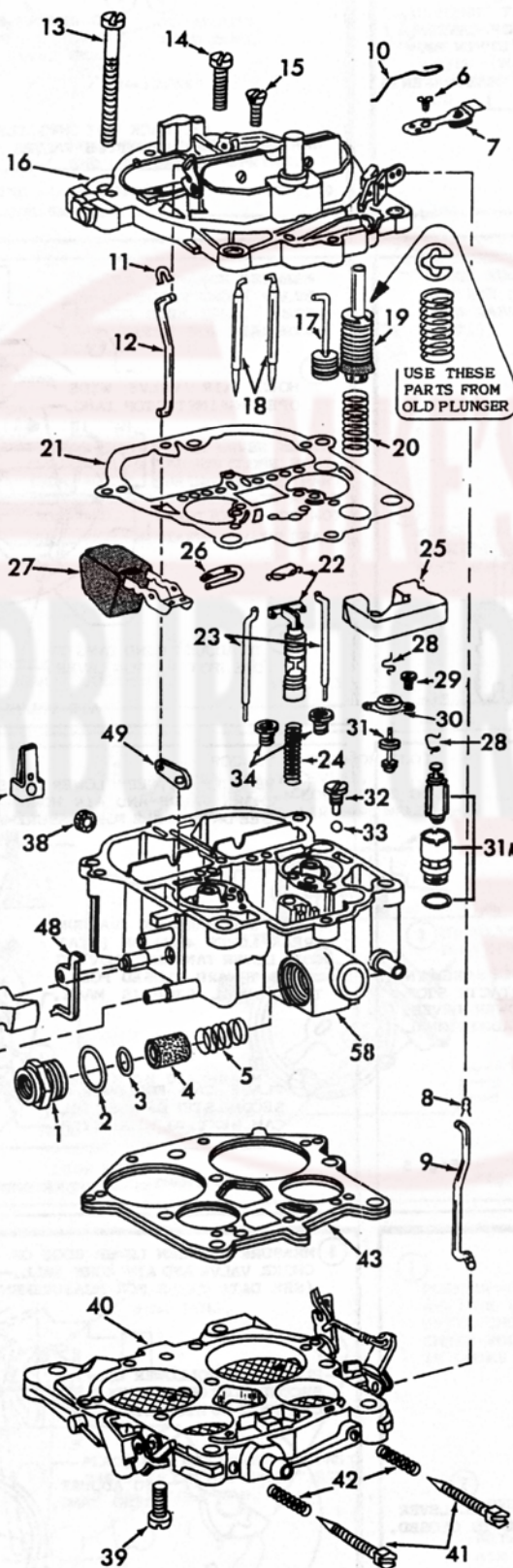
IDLE ADJUSTING NEEDLES (41). TURN EACH NEEDLE IN TO SEAT LIGHTLY AND THEN BACK OUT 3-4 TURNS.

POWER PISTON AND METERING ROD INSTALLATION. BE CAREFUL TO PROPERLY POSITION METERING RODS IN METERING JETS. PRESS FIRMLY DOWN ON POWER PISTON TO INSURE EITHER ENGAGEMENT OF RETAINING PIN IN THROTTLE BODY GASKET OR PROPER POSITIONING OF SPRING CLIP USED ON PISTONS IN SOME MODELS.

BOWL COVER INSTALLATION. CAREFULLY POSITION SECONDARY METERING RODS AND VENT TUBES THROUGH AIR HORN GASKET. (DO NOT FORCE.) POSSIBLE DAMAGE TO SECONDARY METERING DISC, USE SLIGHT SIDEWARD MOVEMENT TO CENTER RODS IN JETS.

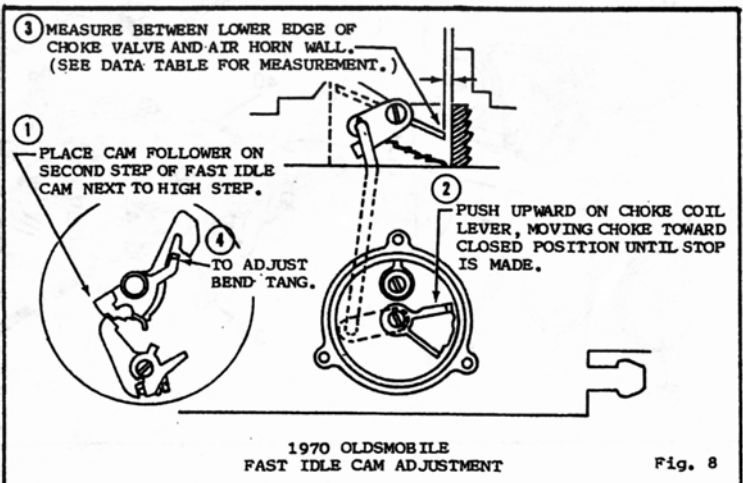
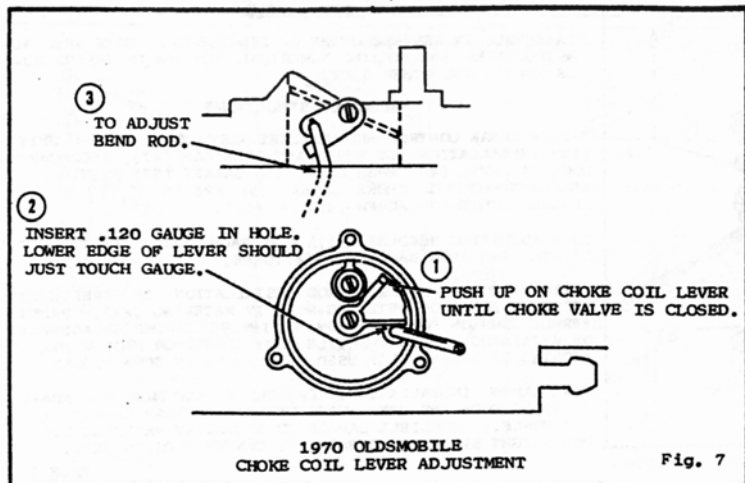
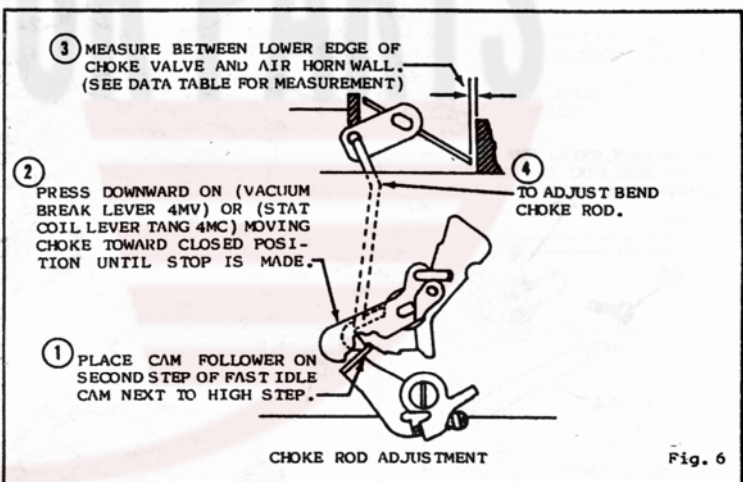
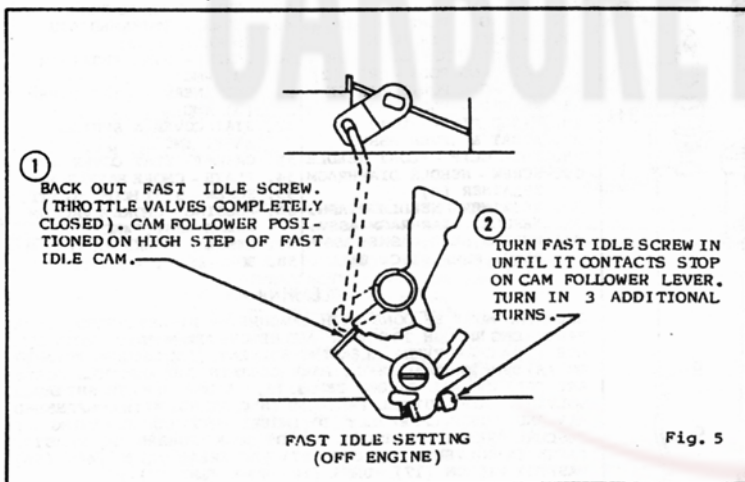
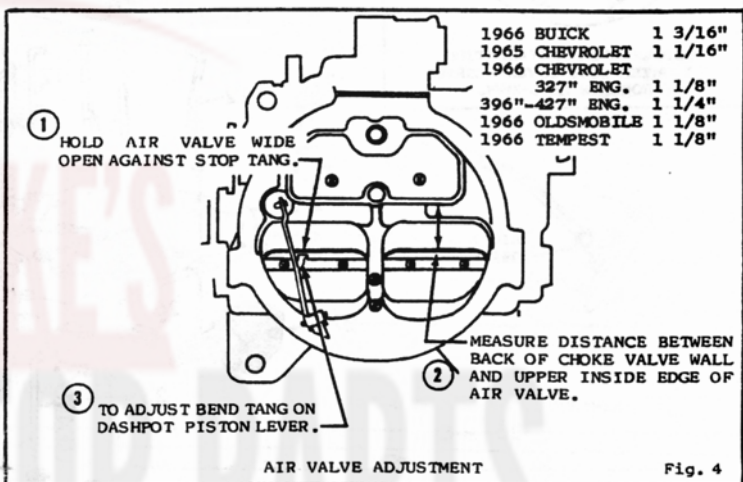
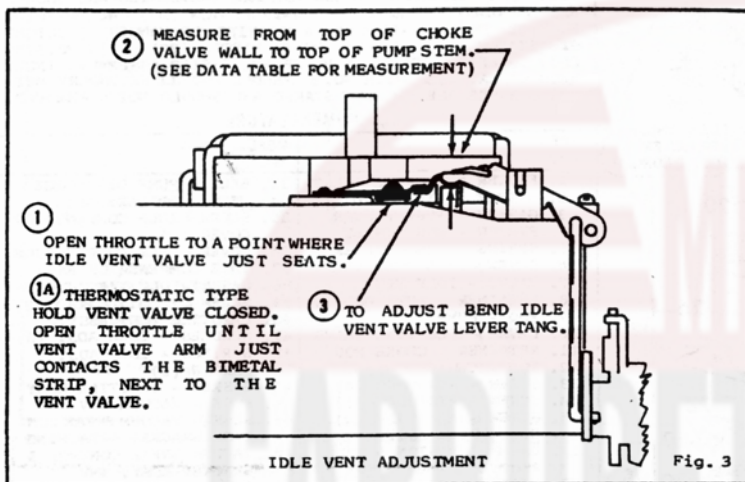
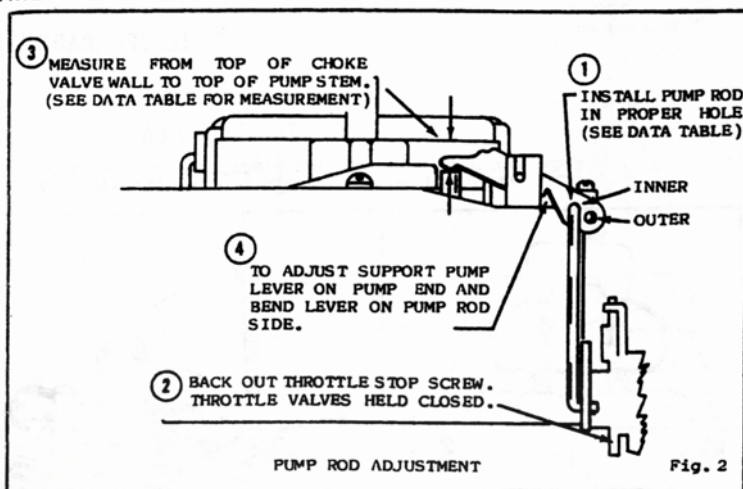
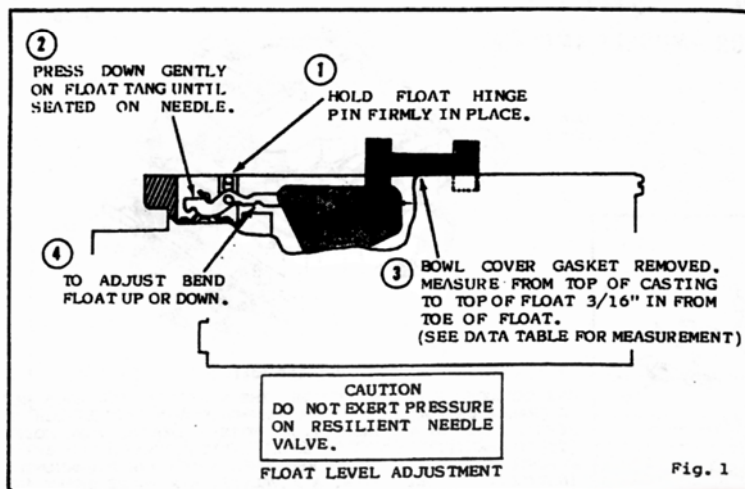


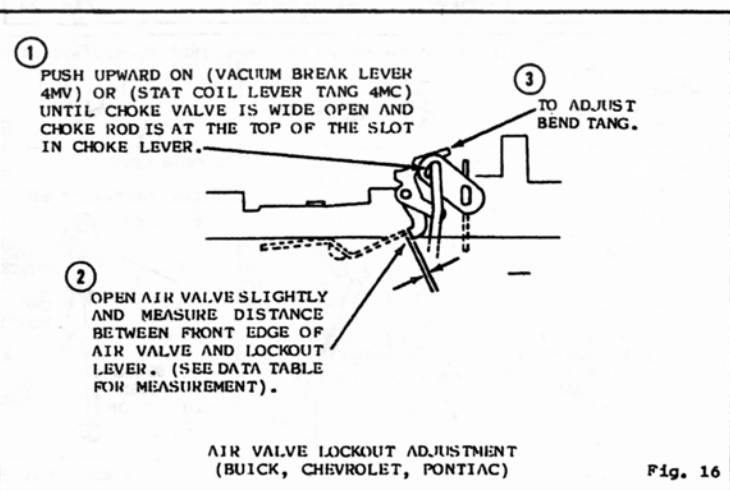
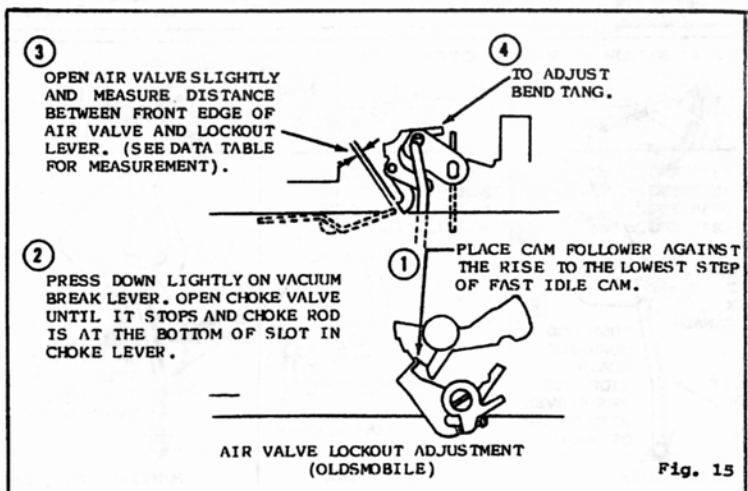
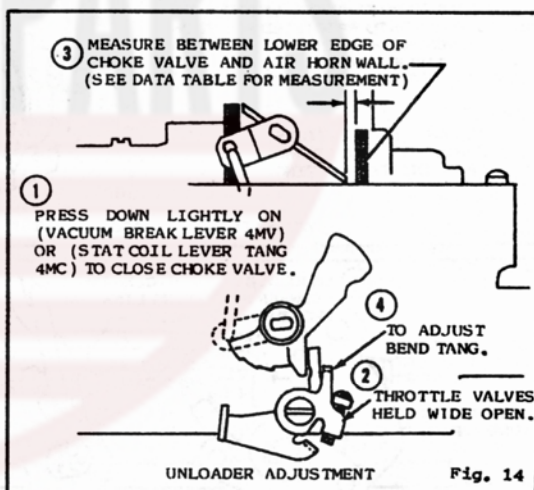
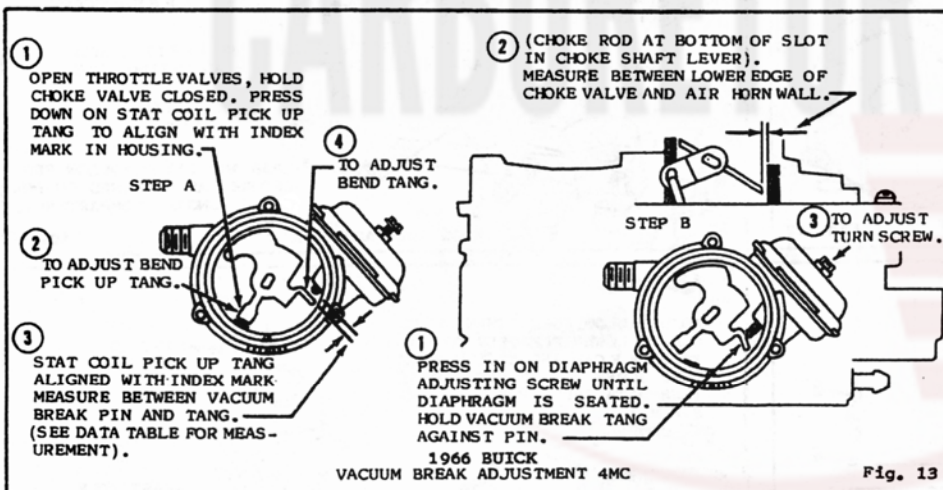
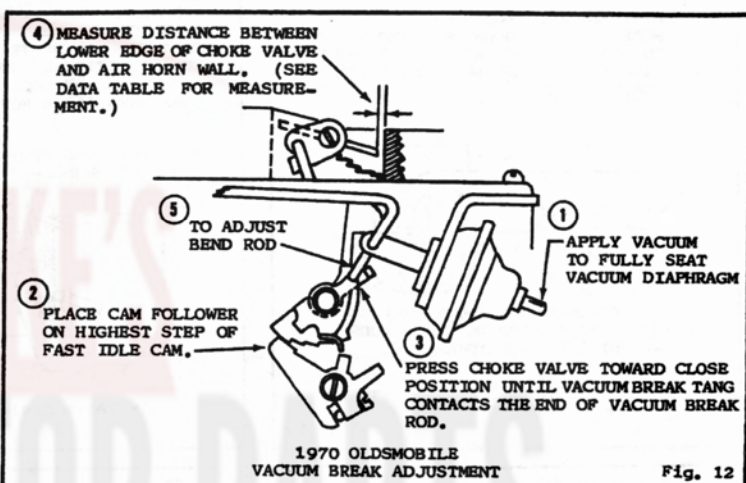
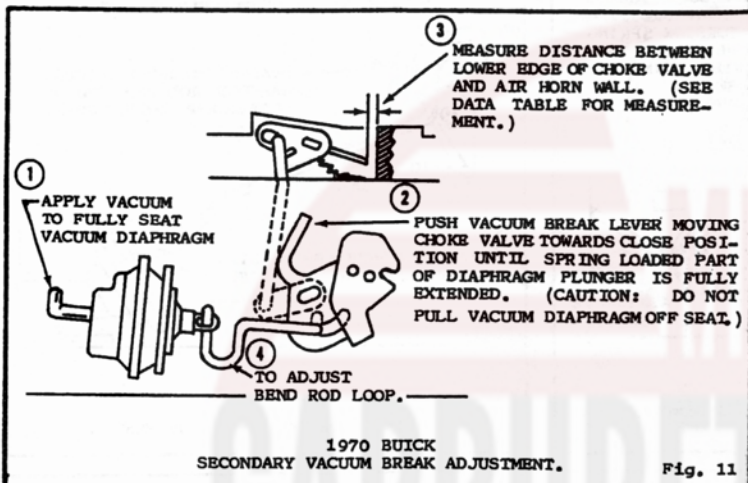
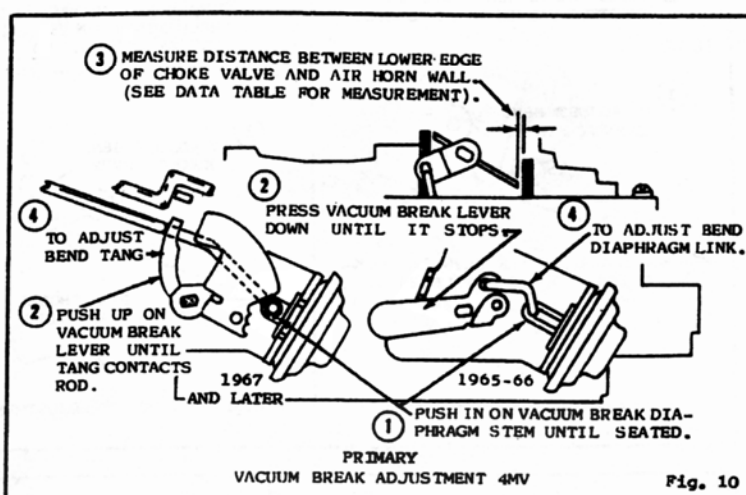
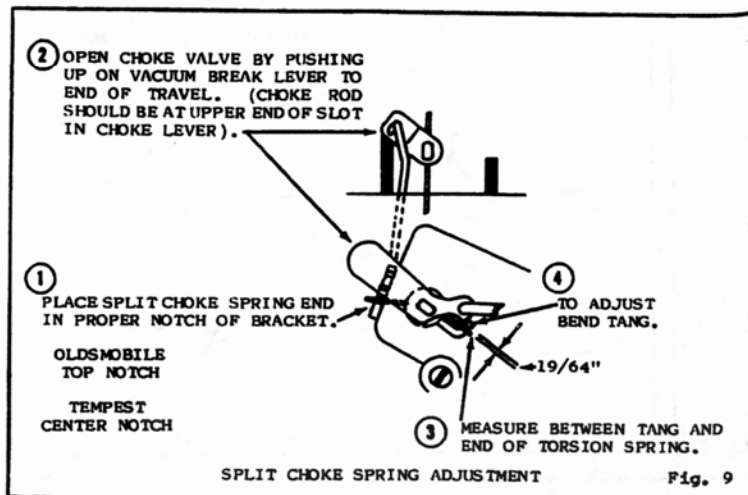
BOWL COVER INSTALLATION  
TIGHTEN BOWL COVER SCREWS  
IN SEQUENCE AS SHOWN.

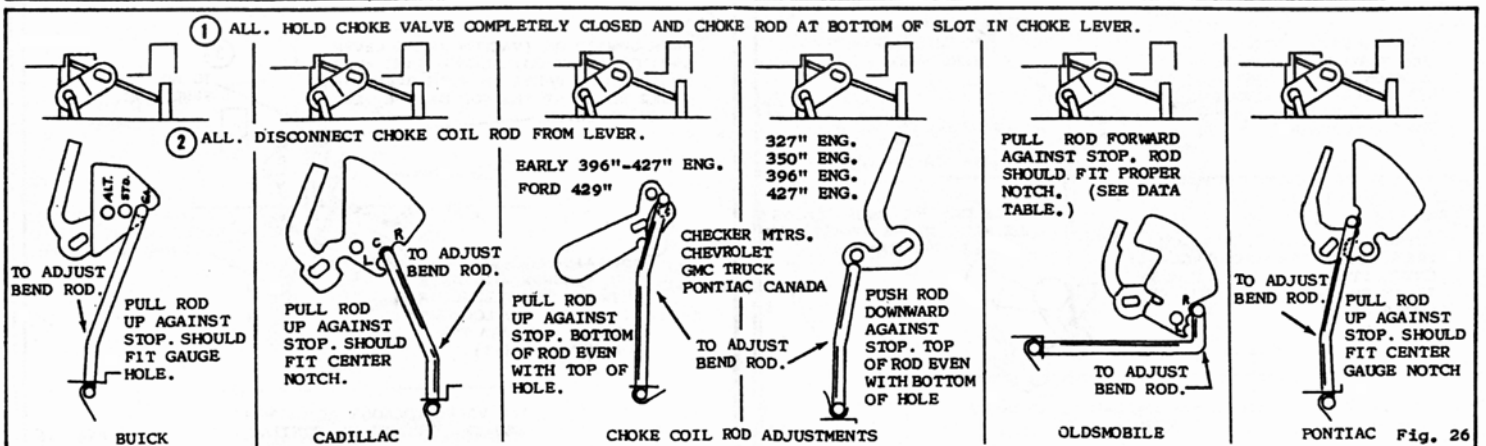
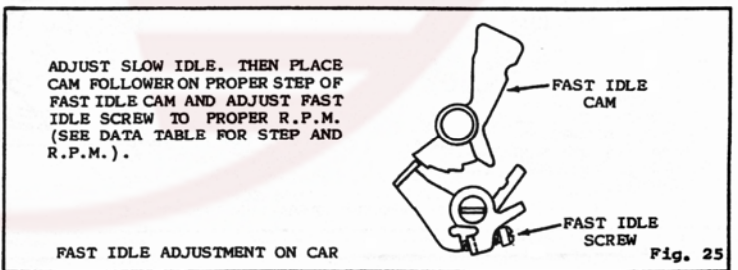
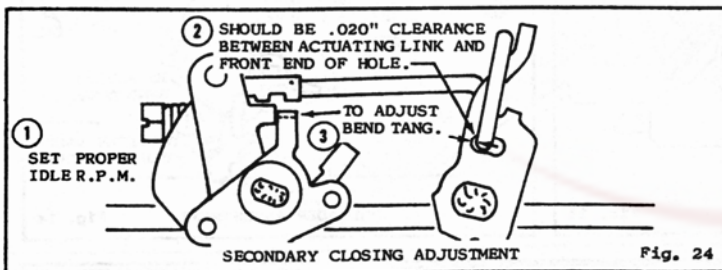
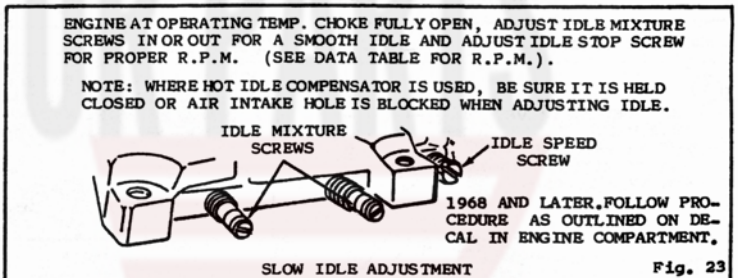
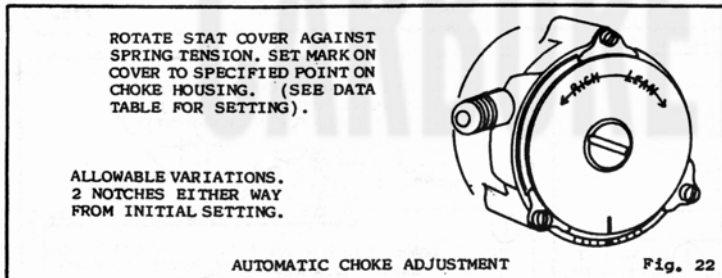
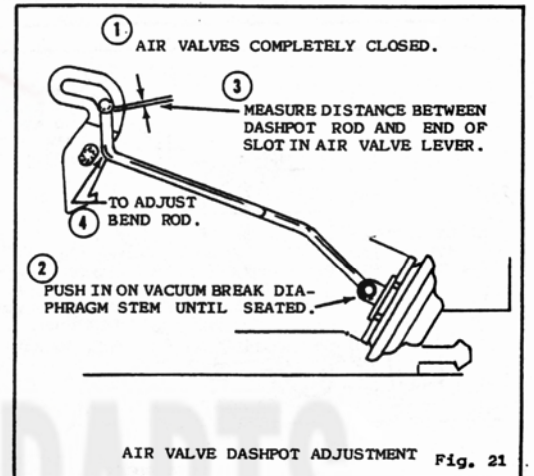
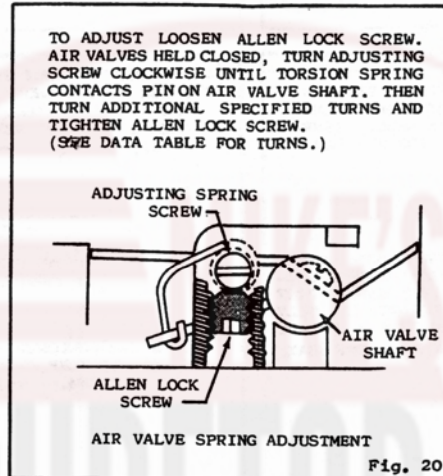
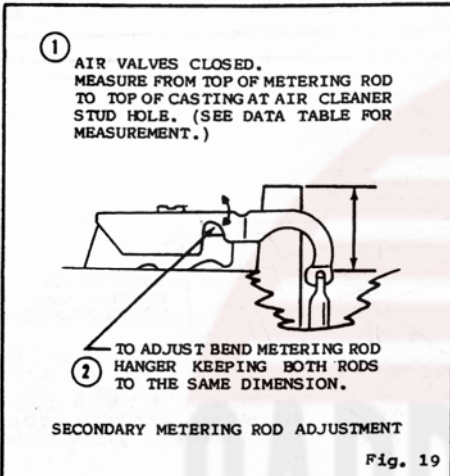
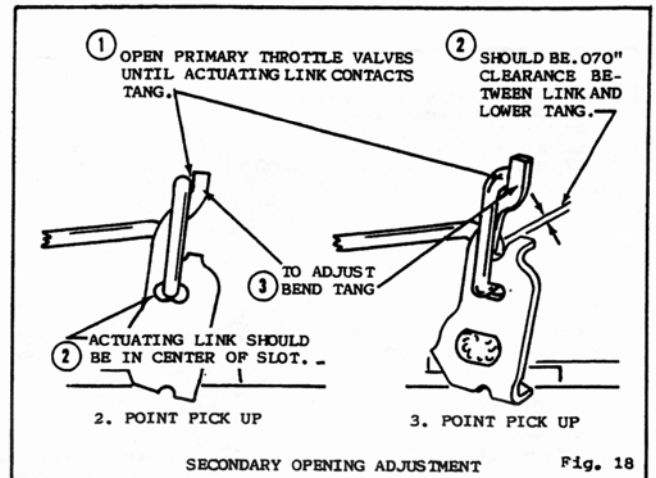
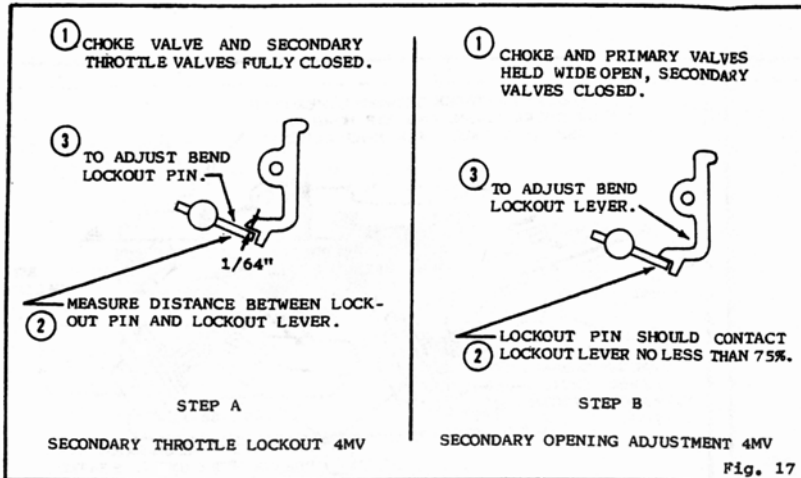


USE THESE  
PARTS FROM  
OLD PLUNGER

# ADJUSTMENTS







# INSTRUCTION SHEET

## ADJUSTMENT DATA TABLE

**50-390-2**

### ROCHESTER MARINE CARBURETORS

#### MODELS B-BC

|                                                   | FLOAT<br>LEVEL | FLOAT<br>DROP | AUTO<br>CHOKE | CHOKE<br>ROD | UNLOADER | IDLE<br>R. P. M. |
|---------------------------------------------------|----------------|---------------|---------------|--------------|----------|------------------|
| KIEKHAEFER MARINE<br>DUAL INST. 194" & 230" ENGS. | 1-9/32"        | 1-3/4"        | INDEX         | ---          | 15/64"   | 550-N            |
| OUTBOARD MARINE<br>153" & 225" ENG. 4 & 6 CYL.    | 1-9/32"        | 1-3/4"        | INDEX         | ---          | 15/64"   | 550-N            |
| REVLEY MARINE<br>225" ENG. 6 CYL.                 | 1-9/32"        | 1-3/4"        | INDEX         | 3/64"        | 15/64"   | 600-N            |
| UNIVERSAL MTRS. MARINE<br>225" ENG. 6 CYL.        | 1-9/32"        | 1-3/4"        | INDEX         | 3/64"        | 15/64"   | 600-N            |

#### MODELS H-HV

|                                        | FLOAT<br>LEVEL | FLOAT<br>DROP | PUMP<br>ROD | VACUUM<br>BREAK | CHOKE<br>ROD | UNLOADER | IDLE<br>R. P. M. |
|----------------------------------------|----------------|---------------|-------------|-----------------|--------------|----------|------------------|
| AQUANAUTICS MARINE<br>164" ENG. 6 CYL. | 1-1/6"         | 1-13/16"      | INDEX       | 3/16"           | 3/16"        | 21/64"   | 500-N            |
| INBOARD MARINE<br>164" ENG. 6 CYL.     | 1-3/16"        | 1-3/4"        | INDEX       | ---             | ---          | ---      | ---              |

#### MODELS 2G-2GC

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FLOAT SET<br>PROCEDURE                                                                                     | FLOAT<br>LEVEL                                                                                                                                                                   | FLOAT<br>DROP                                                                                                                                                                                                                    | PUMP<br>ROD                                                                                                                                                                                                         | INTERMEDIATE<br>CHOKE ROD                                                                                                                                                                    | VAC<br>BREAK                                                                                                                                           | AUTO<br>CHOKE                                                                                                                                                                             | CHOKE<br>ROD                                                                                                                                           | UNLOADER                                                                                                                                                                                  | IDLE<br>R. P. M.                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHRIS-CRAFT MARINE<br>4 CYL. 153" & 181" ENG.<br>6 CYL. 225" ENG.<br>8 CYL. 283" ENG.                                                                                                                                                                                                                                                                                                                                                                                                                        | 2<br>2<br>1                                                                                                | 5/8"<br>1-1/16"<br>1-3/8"                                                                                                                                                        | 1-5/8"<br>1-29/32"<br>1-29/32"                                                                                                                                                                                                   | 1-1/8"<br>1-1/8"<br>29/32"                                                                                                                                                                                          | FLUSH<br>FLUSH<br>---                                                                                                                                                                        | ---<br>---<br>---                                                                                                                                      | INDEX<br>INDEX<br>I-N-LEAN                                                                                                                                                                | 1/32"<br>1/32"<br>3/32"                                                                                                                                | 5/64"<br>5/64"<br>23/64"                                                                                                                                                                  | ---<br>550-N<br>500-N                                                                                                                                      |
| CRUSADER MARINE<br>4 CYL. 153" ENG.<br>6 CYL. 225" ENG.<br>6 CYL. 230" & 292" ENG.                                                                                                                                                                                                                                                                                                                                                                                                                           | 2<br>2<br>2                                                                                                | 5/8"<br>1-1/16"<br>5/8"                                                                                                                                                          | 1-29/32"<br>1-29/32"<br>1-31/32"                                                                                                                                                                                                 | 1-5/32"<br>1-1/8"<br>OUTER HOLE                                                                                                                                                                                     | ---<br>---<br>---                                                                                                                                                                            | ---<br>---<br>---                                                                                                                                      | INDEX<br>INDEX<br>---                                                                                                                                                                     | 3/64"<br>1/32"<br>---                                                                                                                                  | 5/32"<br>5/64"<br>---                                                                                                                                                                     | 550-N<br>550-N<br>550-N                                                                                                                                    |
| 8 CYL. 283" ENG.<br>CARB. NO. 7020082<br>CARB. NO. 7024185<br>8 CYL. 327" ENG.                                                                                                                                                                                                                                                                                                                                                                                                                               | 2<br>2<br>2<br>2                                                                                           | 5/8"<br>5/8"<br>1-1/16"<br>5/8"                                                                                                                                                  | 1-29/32"<br>1-29/32"<br>1-29/32"<br>1-31/32"                                                                                                                                                                                     | 1-5/8"<br>1-3/32"<br>1-1/8"<br>1-11/32"                                                                                                                                                                             | ---<br>FLUSH<br>FLUSH<br>FLUSH                                                                                                                                                               | ---<br>---<br>---<br>---                                                                                                                               | ---<br>INDEX<br>INDEX<br>INDEX                                                                                                                                                            | ---<br>3/32"<br>1/32"<br>1/32"                                                                                                                         | ---<br>23/64"<br>5/64"<br>3/8"                                                                                                                                                            | 550-N<br>550-N<br>550-N<br>550-N                                                                                                                           |
| GRAY MARINE<br>6 CYL. 232" ENG.<br>8 CYL. 215" ENG.<br>8 CYL. 287" & 327" ENG.<br>CARB. NO. 7024081                                                                                                                                                                                                                                                                                                                                                                                                          | 1<br>2<br>2<br>2                                                                                           | NOTE-1<br>5/8"<br>5/8"<br>5/8"                                                                                                                                                   | 1-3/4"<br>1-29/32"<br>1-31/32"<br>1-31/32"                                                                                                                                                                                       | 1-3/16"<br>1-11/32"<br>1-11/32"<br>1-15/32"                                                                                                                                                                         | ---<br>---<br>---<br>---                                                                                                                                                                     | ---<br>---<br>---<br>---                                                                                                                               | INDEX<br>INDEX<br>INDEX<br>INDEX                                                                                                                                                          | ---<br>3/64"<br>1/32"<br>1/32"                                                                                                                         | 3/32"<br>5/32"<br>3/8"<br>3/8"                                                                                                                                                            | 500-N<br>500-N<br>500-N<br>500-N                                                                                                                           |
| GRUMMAN ALLIED MARINE<br>8 CYL. 300" ENG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                                                                                                          | 19/32"                                                                                                                                                                           | 1-29/32"                                                                                                                                                                                                                         | 1-5/32"                                                                                                                                                                                                             | ---                                                                                                                                                                                          | ---                                                                                                                                                    | INDEX                                                                                                                                                                                     | ---                                                                                                                                                    | 1/8"                                                                                                                                                                                      | 500-N                                                                                                                                                      |
| MERCURY (KIEKHAEFER) MARINE<br>4 CYL. 95.5" ENG.<br>CARB. NO. 7040082<br>CARB. NO. 17059054<br>4 CYL. 153" ENG.<br>CARB. NO. 7020993, 7028086<br>CARB. NO. 17059054<br>CARB. NO. 7043182, 7044182<br>4 CYL. 181" ENG.<br>CARB. NO. 7040080<br>CARB. NO. 7040084, 7043184<br>4 CYL. 224" ENG.<br>6 CYL. 230" ENG.<br>CARB. NO. 17059052<br>6 CYL. 250" ENG.<br>CARB. NO. 7028188,<br>7040081, 7042183<br>CARB. NO. 17059050<br>8 CYL. 302" ENG.<br>8 CYL. 305" ENG.<br>8 CYL. 351" ENG.<br>CARB. NO. 17056197 | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 5/8"<br>21/32"<br>5/8"<br>21/32"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8"<br>5/8" | 1-7/8"<br>1-3/4"<br>1-29/32"<br>1-3/4"<br>1-7/8"<br>1-3/4"<br>1-7/8"<br>1-3/4"<br>1-7/8"<br>1-9/32"<br>1-9/32"<br>1-9/32"<br>1-3/4"<br>1-7/8"<br>1-7/8"<br>1-7/8"<br>1-3/4"<br>1-3/8"<br>1-9/32"<br>1-9/32"<br>1-3/8"<br>1-9/32" | 1-1/8"<br>1-1/4"<br>1-5/32"<br>1-1/4"<br>1-1/8"<br>1-1/8"<br>1-5/32"<br>1-1/8"<br>1-1/8"<br>1-9/32"<br>1-9/32"<br>1-1/8"<br>1-1/4"<br>1-1/8"<br>1-7/32"<br>1-1/4"<br>1-1/2"<br>1-1/2"<br>1-1/2"<br>1-1/2"<br>1-1/2" | FLUSH<br>---<br>---<br>---<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH<br>FLUSH | ---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>--- | INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX | ---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>--- | 5/64"<br>5/64"<br>5/32"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64"<br>5/64" | ---<br>---<br>550-N<br>---<br>---<br>---<br>550-N<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>--- |
| OUTBOARD MARINE (OMC)<br>4 CYL. 91" & 97" ENG.<br>4 CYL. 153" ENG.<br>6 CYL. 225" ENG.<br>6 CYL. 232" ENG.<br>6 CYL. 250" ENG.<br>8 CYL. 283" & 330" ENG.                                                                                                                                                                                                                                                                                                                                                    | 1<br>2<br>2<br>2<br>2<br>2                                                                                 | NOTE-1<br>19/32"<br>19/32"<br>1/2"<br>5/8"<br>19/32"                                                                                                                             | 1-3/4"<br>1-29/32"<br>1-29/32"<br>1-3/4"<br>1-7/8"<br>1-29/32"                                                                                                                                                                   | 1-3/16"<br>INNER HOLE<br>1-5/32"<br>INNER HOLE<br>1-5/32"<br>1-1/4"<br>1-1/8"<br>INNER HOLE<br>1-5/32"                                                                                                              | ---<br>---<br>---<br>---<br>FLUSH<br>---                                                                                                                                                     | ---<br>---<br>---<br>---<br>---<br>15/64"                                                                                                              | INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX<br>INDEX                                                                                                                                        | ---<br>---<br>---<br>---<br>---<br>---                                                                                                                 | 3/32"<br>7/64"<br>7/64"<br>5/64"<br>5/64"<br>7/64"                                                                                                                                        | 550-N<br>550-N<br>550-N<br>---<br>---<br>550-N                                                                                                             |
| PALMER MARINE<br>6 CYL. 304" ENG.<br>8 CYL. 215" ENG.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2<br>2                                                                                                     | 5/8"<br>5/8"                                                                                                                                                                     | 1-31/32"<br>1-29/32"                                                                                                                                                                                                             | OUTER HOLE<br>1-5/8"<br>1-11/32"                                                                                                                                                                                    | ---<br>---                                                                                                                                                                                   | ---<br>---                                                                                                                                             | ---                                                                                                                                                                                       | ---                                                                                                                                                    | ---                                                                                                                                                                                       | 550-N<br>600-N                                                                                                                                             |
| REVLEY MARINE<br>6 CYL. 225" ENG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2                                                                                                          | 11/16"                                                                                                                                                                           | 1-29/32"                                                                                                                                                                                                                         | 1-1/8"                                                                                                                                                                                                              | ---                                                                                                                                                                                          | ---                                                                                                                                                    | INDEX                                                                                                                                                                                     | 1/32"                                                                                                                                                  | 5/64"                                                                                                                                                                                     | 500-N                                                                                                                                                      |
| UNIVERSAL MTRS. MARINE<br>6 CYL. 198"-225" ENG.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2                                                                                                          | 11/16"                                                                                                                                                                           | 1-29/32"                                                                                                                                                                                                                         | 1-1/8"                                                                                                                                                                                                              | ---                                                                                                                                                                                          | ---                                                                                                                                                    | INDEX                                                                                                                                                                                     | 1/32"                                                                                                                                                  | 5/64"                                                                                                                                                                                     | 550-N                                                                                                                                                      |
| VOLVO PENTA MARINE<br>8 CYL. 305" ENG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                                                                                                          | 1/2"                                                                                                                                                                             | 1-3/4"                                                                                                                                                                                                                           | 1-19/32"                                                                                                                                                                                                            | ---                                                                                                                                                                                          | 3/16"                                                                                                                                                  | INDEX                                                                                                                                                                                     | ---                                                                                                                                                    | 5/16"                                                                                                                                                                                     | ---                                                                                                                                                        |

NOTE 1=1-5/32" FROM GASKET TO TOP OF FLOAT AT TOE.

# MODEL 4MV

|                                                                  | FLOAT<br>LEVEL | PUMP ROD<br>ADJ. | CHOKE<br>ROD | VACUUM<br>BREAK | UNLOADER<br>ADJ. | AIR VALVE<br>LOCKOUT | SECONDARY<br>VALVE LOCKOUT | SECONDARY<br>MET. ROD | AIR VALVE<br>SPRING TURNS | AIR VALVE<br>DASH POT | AUTO.<br>CHOKE | IDLE<br>R.P.M. |
|------------------------------------------------------------------|----------------|------------------|--------------|-----------------|------------------|----------------------|----------------------------|-----------------------|---------------------------|-----------------------|----------------|----------------|
| AERO MARINE<br>327" ENGINE                                       | 1/4"           | INNER 9/32"      | 7/64"        | 5/32"           | 5/16"            | 1/64"                | --                         | 7/8"                  | 3/4                       | 1/32"                 | FIG. 26        | 550-N          |
| CHRIS-CRAFT MARINE<br>CARB #7044283                              | 1/4"           | INNER 9/32"      | --           | .155            | --               | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #7044288                                                    | 1/4"           | INNER 9/32"      | --           | .155            | --               | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #7044289                                                    | 1/4"           | INNER 9/32"      | --           | .155            | --               | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #17056287                                                   | 1/4"           | INNER 9/32"      | --           | .120            | .300             | .030                 | --                         | --                    | 3/4                       | .015                  | INDEX          | --             |
| CARB #17058280                                                   | 1/4"           | INNER 9/32"      | --           | .120            | .160             | .030                 | --                         | --                    | 3/8                       | .030                  | INDEX          | --             |
| CARB #17059294                                                   | 5/16"          | INNER 5/16"      | --           | 19°             | --               | --                   | .015                       | --                    | 5/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17059295                                                   | 11/32"         | INNER 5/16"      | --           | 19°             | --               | --                   | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CHRYSLER MARINE<br>CARB #17084001                                | 9/32"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CARB #17086115                                                   | 9/32"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CARB #17086116                                                   | 9/32"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CRUSADER MARINE<br>427" ENGINE                                   | 1/4"           | INNER 9/32"      | 7/64"        | 5/32"           | 5/16"            | 1/64"                | 1/64"                      | 7/8"                  | 1/4                       | 1/32"                 | FIG. 22        | 550-N          |
| CARB #17082403                                                   | 9/32"          | INNER 5/16"      | --           | 27°             | 32°              | --                   | .015                       | --                    | 3/4                       | .015                  | GAGE NOTCH     | --             |
| DAYTONA MARINE<br>327" & 427" ENGINE                             | 1/4"           | INNER 9/32"      | 7/64"        | 5/32"           | 5/16"            | 1/64"                | 1/64"                      | 7/8"                  | 1/4                       | 1/32"                 | FIG. 22        | 650-N          |
| MERCURY (KIEKHAEFER) MARINE<br>292", 327", 350", 427", 482" ENG. | 1/4"           | INNER 9/32"      | 7/64"        | 5/32"           | 5/16"            | 1/64"                | --                         | --                    | 1/2                       | 1/32"                 | FIG. 26 1 ROD  | --             |
| 454" ENGINE                                                      | 1/4"           | INNER 9/32"      | --           | --              | --               | --                   | --                         | --                    | 3/4                       | 1/32"                 | --             | --             |
| CARB #7044286                                                    | 1/4"           | INNER 9/32"      | --           | .155            | --               | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #7044287                                                    | 1/4"           | INNER 9/32"      | --           | .155            | --               | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #17057282                                                   | 1/4"           | INNER 9/32"      | --           | --              | --               | 1/64"                | --                         | --                    | 9/16                      | 1/64"                 | --             | --             |
| CARB #17057283                                                   | 1/4"           | INNER 9/32"      | --           | --              | --               | 1/64"                | --                         | --                    | 1/2                       | 1/32"                 | --             | --             |
| CARB #17059280                                                   | 1/4"           | INNER 5/16"      | --           | 27°             | --               | .015                 | .015                       | --                    | 5/8                       | .030                  | GAGE NOTCH     | --             |
| CARB #17059287                                                   | 1/4"           | INNER 5/16"      | --           | 19°             | --               | .015                 | .015                       | --                    | 3/4                       | .015                  | GAGE NOTCH     | --             |
| CARB #17059288                                                   | 1/4"           | INNER 5/16"      | --           | 19°             | --               | .015                 | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CARB #17059289                                                   | 1/4"           | INNER 5/16"      | --           | 20°             | --               | .015                 | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17059290                                                   | 9/32"          | INNER 5/16"      | --           | 19°             | --               | .015                 | .015                       | --                    | 1/2                       | .030                  | GAGE NOTCH     | --             |
| CARB #17059291                                                   | 1/4"           | INNER 5/16"      | --           | 19°             | --               | .015                 | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17059292                                                   | 1/4"           | INNER 5/16"      | --           | --              | --               | 1/64"                | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17080560                                                   | 1/4"           | INNER 5/16"      | --           | 27°             | --               | .015                 | .015                       | --                    | 3/4                       | .015                  | GAGE NOTCH     | --             |
| CARB #17080561                                                   | 1/4"           | INNER 5/16"      | --           | 27°             | --               | .015                 | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CARB #17080562                                                   | 1/4"           | INNER 5/16"      | --           | 27°             | --               | .015                 | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17080563                                                   | 1/4"           | INNER 5/16"      | --           | 27°             | --               | .015                 | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CARB #17080564                                                   | 1/4"           | INNER 5/16"      | --           | 27°             | --               | .015                 | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17080565                                                   | 1/4"           | INNER 5/16"      | --           | 27°             | --               | .015                 | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17081299                                                   | 7/32"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17083515                                                   | 9/32"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17083522                                                   | 7/32"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17084516                                                   | 9/32"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17085013                                                   | 1/4"           | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 3/8                       | .015                  | GAGE NOTCH     | --             |
| CARB #17086069                                                   | 9/32"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| OUTBOARD MARINE (OMC)<br>283", 307", 350", 427" ENGINE           | 1/4"           | INNER 9/32"      | 7/64"        | 5/32"           | 5/16"            | 1/64"                | --                         | 7/8"                  | 3/4                       | 1/32"                 | FIG. 26        | --             |
| CARB #7044284                                                    | 1/4"           | INNER 9/32"      | --           | .155            | --               | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #7045283                                                    | 1/4"           | INNER 9/32"      | --           | .080            | .152             | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #17057290                                                   | 1/4"           | INNER 9/32"      | --           | 19°             | 32°              | --                   | .015                       | --                    | 1/2                       | .030                  | --             | --             |
| CARB #17059285                                                   | 5/16"          | INNER 5/16"      | --           | 19°             | 32°              | --                   | .015                       | --                    | 1/2                       | .030                  | GAGE NOTCH     | --             |
| CARB #17059286                                                   | 5/16"          | INNER 5/16"      | --           | 19°             | 32°              | --                   | .015                       | --                    | 1/2                       | .030                  | GAGE NOTCH     | --             |
| CARB #17082515                                                   | 5/16"          | INNER 5/16"      | --           | 19°             | 32°              | --                   | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CARB #17085010                                                   | 5/16"          | INNER 5/16"      | --           | 19°             | 32°              | --                   | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| CARB #17086117                                                   | 5/16"          | INNER 5/16"      | --           | 27°             | --               | --                   | .015                       | --                    | 1/2                       | .015                  | GAGE NOTCH     | --             |
| OWENS MARINE<br>427" ENGINE                                      | 1/4"           | INNER 9/32"      | 7/64"        | 5/32"           | 5/16"            | 1/64"                | --                         | 7/8"                  | 1/4                       | 1/32"                 | FIG. 26 1 ROD  | 550-N          |
| SALMON STILES MARINE<br>327" ENGINE                              | 1/4"           | INNER 9/32"      | 7/64"        | 5/32"           | 5/16"            | 1/64"                | --                         | 7/8"                  | 3/4                       | 1/32"                 | FIG. 26 1 ROD  | 550-N          |
| VOLVO PENTA MARINE<br>305", 350" ENGINE                          | 1/4"           | INNER 5/16"      | --           | --              | --               | --                   | --                         | --                    | 1/2                       | 1/32"                 | INDEX          | --             |
| CARB #7044288                                                    | 1/4"           | INNER 9/32"      | --           | .155            | --               | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #7044289                                                    | 1/4"           | INNER 9/32"      | --           | .155            | --               | .015                 | --                         | --                    | 3/8                       | .030                  | EVEN           | --             |
| CARB #17056287                                                   | 1/4"           | INNER 9/32"      | --           | .120            | .300             | .030                 | --                         | --                    | 3/4                       | .015                  | INDEX          | --             |
| CARB #17057292                                                   | 1/4"           | INNER 9/32"      | --           | .120            | .160             | .030                 | --                         | --                    | 3/4                       | .030                  | INDEX          | --             |
| CARB #17059283                                                   | 1/4"           | INNER 5/16"      | --           | .120            | .160             | --                   | .015                       | --                    | 1/2                       | .030                  | INDEX          | --             |
| CARB #17059296                                                   | 9/32"          | INNER 5/16"      | --           | --              | --               | --                   | .015                       | --                    | 1/2                       | .015                  | INDEX          | --             |
| CARB #17059298                                                   | 1/4"           | INNER 5/16"      | --           | .120            | .160             | --                   | .015                       | --                    | 1/2                       | .030                  | INDEX          | --             |

**MODELS 4G-4GC**

|                                                                                                             | FLOAT LEVEL<br>PRI. SEC.       |                                 | FLOAT TOE<br>PRI. SEC.   |                         | VAC.<br>ASSIST.        | FLOAT DROP<br>PRI. SEC.      |                              | PUMP ROD<br>LOCATION      | PUMP<br>ROD                   | INTERMEDIATE<br>CHOKE ROD | AUTO<br>CHOKE           | CHOKE<br>ROD            | UNLOADER               | SECONDARY<br>LOCKOUT    | SECONDARY<br>CONTOUR    | IDLE<br>R.P.M.          |
|-------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------|--------------------------|-------------------------|------------------------|------------------------------|------------------------------|---------------------------|-------------------------------|---------------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| CHRIS-CRAFT MARINE<br>283" ENG. 7013071<br>283" ENG. 7015090                                                | 1-15/32"                       | 1-3/8"                          | 11/16"                   | 3/8"                    | 1-1/16"                | 1-1/2"                       | 1-5/16"                      | OUTER<br>OUTER            | 1-1/32"                       | FLUSH<br>FLUSH            | 3-N-L<br>3-N-L          | 3/64"<br>3/64"          | 1/8"<br>1/8"           | 1/64"<br>1/64"          | 1/8"<br>1/8"            | 500-N<br>500-N          |
| CRUSADER MARINE<br>327" ENG. 8 CYL. 7020085<br>409" ENG. 8 CYL. 7020084<br>327"-409" ENG. 8 CYL. ALL OTHERS | 1-15/32"<br>1-5/16"<br>1-3/8"  | 1-3/8"<br>1-3/8"<br>1-11/32"    | 11/16"<br>1/2"<br>11/16" | 3/8"<br>3/8"<br>9/16"   | 1-1/16"<br>—<br>—      | 1-1/2"<br>1-11/32"<br>1-3/8" | 1-1/8"<br>1-1/8"<br>1-3/8"   | OUTER<br>OUTER<br>OUTER   | 1-1/32"<br>1-1/32"<br>1-1/32" | FLUSH<br>FLUSH<br>FLUSH   | 3-N-L<br>3-N-L<br>3-N-L | 3/64"<br>3/64"<br>3/64" | 1/8"<br>1/8"<br>1/8"   | 1/64"<br>1/64"<br>1/64" | 1/8"<br>1/8"<br>1/8"    | 550-N<br>550-N<br>550-N |
| DAYTONA MARINE<br>283" ENG. 8 CYL.<br>327"-409" ENG. 8 CYL.                                                 | 1-17/32"<br>1-3/8"             | 1-19/32"<br>1-11/32"            | —<br>11/16"              | —<br>9/16"              | —<br>—                 | 2-1/4"<br>1-3/8"             | 2-1/4"<br>1-3/8"             | CENTER<br>OUTER           | 1-1/16"<br>1"                 | —<br>—                    | —<br>—                  | —<br>—                  | —<br>—                 | —<br>—                  | —<br>—                  | 650-N<br>650-N          |
| GRAY MARINE<br>215"-327" ENG. 8 CYL.<br>401" ENG. 8 CYL.                                                    | 1-3/8"<br>1-3/8"               | 1-11/32"<br>1-11/32"            | 11/16"<br>11/16"         | 9/16"<br>9/16"          | —<br>—                 | 1-3/8"<br>1-3/8"             | 1-3/8"<br>1-3/8"             | OUTER<br>OUTER            | 1-1/32"<br>1-1/32"            | FLUSH<br>FLUSH            | INDEX<br>3-N-L          | 3/64"<br>3/64"          | 1/8"<br>7/64"          | 1/64"<br>1/64"          | 7/64"<br>7/64"          | 550-N<br>650-N          |
| KIEKHAEFER MARINE<br>283" ENG. 8 CYL.<br>327" ENG. 8 CYL.<br>409" ENG. 8 CYL.                               | 1-1/2"<br>1-3/8"<br>1-3/8"     | 1-9/16"<br>1-11/32"<br>1-11/32" | —<br>11/16"<br>11/16"    | —<br>9/16"<br>9/16"     | —<br>—<br>—            | 2-1/4"<br>1-3/8"<br>1-3/8"   | 2-1/4"<br>1-3/8"<br>1-3/8"   | OUTER<br>OUTER<br>OUTER   | 1-3/32"<br>1-3/32"<br>1-1/16" | FLUSH<br>FLUSH<br>FLUSH   | INDEX<br>3-N-L<br>INDEX | —<br>—<br>—             | 15/64"<br>1/8"<br>1/8" | 1/64"<br>1/64"<br>1/64" | 1/64"<br>7/64"<br>1/32" | 550-N<br>550-N<br>550-N |
| OWENS MARINE<br>283"-327" ENG. 8 CYL.                                                                       | 1-17/32"                       | 1-19/32"                        | —                        | —                       | —                      | 2-1/4"                       | 2-1/4"                       | OUTER                     | 1-3/32"                       | FLUSH                     | INDEX                   | 1/16"                   | 15/64"                 | 1/64"                   | 1/64"                   | 675-N                   |
| PALMER MARINE<br>345" ENG. 8 CYL. 7015091<br>345" ENG. 8 CYL. 7019084<br>549" ENG. 8 CYL. 7024084           | 1-15/32"<br>1-13/32"<br>1-3/8" | 1-1/2"<br>1-15/32"<br>1-3/8"    | 11/16"<br>5/8"<br>11/16" | 3/8"<br>9/16"<br>11/16" | 1-1/16"<br>29/32"<br>— | 1-1/2"<br>1-1/2"<br>1-3/8"   | 1-5/16"<br>1-5/16"<br>1-3/8" | CENTER<br>CENTER<br>OUTER | 1-1/32"<br>1-1/16"<br>1-1/32" | —<br>—<br>—               | —<br>—<br>—             | —<br>—<br>—             | —<br>—<br>—            | —<br>—<br>—             | —<br>—<br>—             | 600-N<br>600-N<br>600-N |
| REVLEY MARINE<br>300" ENG. 8 CYL.<br>401" ENG. 8 CYL.                                                       | 1-3/8"<br>1-3/8"               | 1-11/32"<br>1-11/32"            | 11/16"<br>11/16"         | 9/16"<br>9/16"          | —<br>—                 | 1-3/8"<br>1-3/8"             | 1-3/8"<br>1-3/8"             | INNER<br>OUTER            | 1-1/32"<br>1-1/32"            | FLUSH<br>FLUSH            | INDEX<br>3-N-L          | 3/64"<br>—              | 1/8"<br>7/64"          | 1/64"<br>1/64"          | 1/32"<br>7/64"          | 500-N<br>650-N          |