FUEL SYSTEM

SERVICE INSTRUCTION WORKSHEET

TO REPAIR

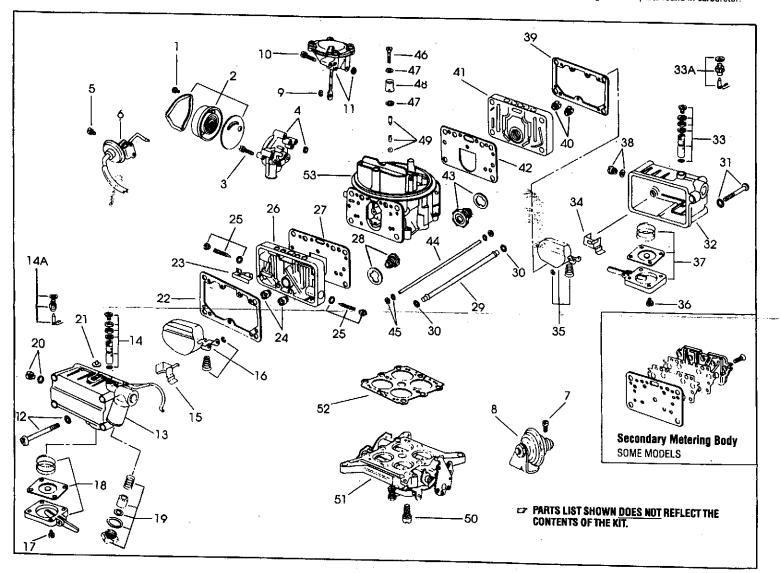
GF3479-7

HOLLEY CARBURETOR

4 Barrel Models 4150, 4160

- 1. Carefully read the text in the following pages to become familiar with the contents of this worksheet <u>before</u> performing carburetor overhaul.
- 2. The exploded view is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being overhauled.
- Use the exploded view as a guide. The numerical sequence of the parts list may generally be followed to disassemble the carburetor far enough to permit cleaning and inspection.

and inspection.
4. Parts list shown DOES NOT reflect the contents of the kit.
5. Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worn parts found in carburetor.



PARTS LIST

Screw, retainer (3) *
Thermostatic coil & cover assembly *
Screw, choke housing (3) *
Choke housing & washer assembly *
Screw, choke diaphragm (2)
Choke diaphragm assembly
Screw, dashpot *
Dashpot assembly *
Retainer, sec. diaphragm stem
Screw, diaphragm housing (3)
Sec. throttle diaphragm assembly
Screw, primary fuel bowl (4)
primary fuel bowl assembly
Adjustable needle & seat assembly, primary *
Non-adjustable needle & seat, primary *
Saffle plate
Float & spring assembly
Screw, pump cover (4)
Pump diaphragm & cover assembly

Fitting & filter assembly, fuel inlet Plug & washer, fuel level sight Air vent valve or cap Gasket, primary fuel bowl Vent baffle, metering body Main jets primary

20. 21. 22. 23. 24. 25. 26. 27. 28. 31. 33. 34. 35.

Vent baffle, metering body
Main jets, primary
idle mixture needle, cap & washer
Metering body, primary
Gasket, primary metering body
Economizer assembly, primary
Tube, fuel line
O-ring, tube (2)
Screw, sec. fuel bowl (4)
Sec. fuel bowl assembly
Adjustable needle & seat assembly, sec. *
Non-adjustable needle & seat, sec. *
Baffle plate
Float & spring assembly
Screw, pump cover (4) *

Pump diaphragm & cover assembly (Hi-perf. carb.) *
Plug & washer, fuel level sight
Gasket, sec. fuel bowl
Main jets, secondary
Metering body, secondary
Gasket, sec. metering body
Economizer assembly, secondary *
Balance tube *
Washer & o-ring, tube (2 ea.) *
Screw, pump discharge nozzle
Washer, nozzle (2)
Nozzle, pump discharge
Needle valve or ball & weight
Screw, throttle body (8)
Throttle body assembly
Gasket, throttle body
Main body assembly

* Some Models

GF3479-7-P1

REMOVAL & INSTALLATIONS NOTES

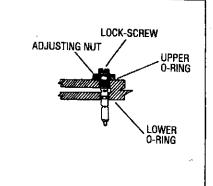
- 1. Cover opening on intake manifold after carburetor is removed.
- Do not mix parts and components from primary and secondary sides. They are not always interchangeable. Be sure to mark part when similiarity exists.
- Exercise care when disassembling and assembling secondary throttle diaphragm assembly (11). Do not damage diaphragm with cover screws
- Before removing idle mixture needle (25), turn in until lightly seated, counting number of turns. Record for proper installation.
- install parts and components in reverse order of removal.
- 6. When installing throttle body gasket (52), be sure holes are matched correctly.

TORQUE TABLE

Economizer assembly (23, 43) - 100 in.-lbs. Throttle body screws (50) - 50 in.-lbs. Fuel bowl screws (12, 31) - 25-30 in.-lbs.

FIG. 1 **SAFETY SEAL** ADJUSTABLE NEEDLE VALVE

1. The special design and sealing features of this assembly provide safe adjustment of fuel level while engine is running. NOTE: Make sure that upper o-ring fits snugly in place (where applicable).



7. When installing idle mixture needle (25), turn in until lightly seated, then back out number of turns recorded earlier. NOTE: Some late models have a "backwards" idle adjustment. Turn in for rich mixture, turn out for lean mixture.

NOTE: 1968 & 69 models do not have idle mixture needles (52) on primary metering body. They were replaced by idle limiter screws, adjusted and sealed by the factory. Do not remove or adjust. A single idle adjusting screw is located inside the air cleaner ring on air horn, directly above primary metering body. This screw has a left

8. Before installing o-rings, lubricate lightly with clean oil.

CLEANING

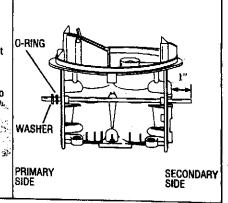
Cleaning must be done with carburetor disassembled. Use spray cleaner and a stiff bristle brush to remove dirt and carbon deposits. Do not use abrasives and wires to clean parts and passageways. Wash off in suitable solvent, and clear all passageways with compressed air.

Caution: When cleaning with solvent do not soak or spray parts containing rubber,

FIG. 2 **BALANCE TUBE POSITION**

Cars- Install balance tube so it projects 1 inch from secondary metering body as shown.

Trucks- install balance tube so it projects equally from both primary and secondary sides. 🤏



ADJUSTMENT DATA

FIG. 3 **DRY FLOAT LEVEL** ADJUSTMENT

- 1. With fuel bowl inverted, surface of float should be parallel to top surface of fuel bowl.
- 2. To adjust, open lock-screw and turn adjusting nut. Re-tighten lock-screw while holding adjusting nut.

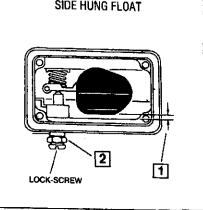


FIG. 4 DRY FLOAT LEVEL **ADJUSTMENT**

- 1. With fuel bowl inverted, surface of float should be parallel to top surface of fuel bowl.
- 2. To adjust, open lock-screw and turn adjusting nut. Re-tighten lock-screw while holding adjusting nut.

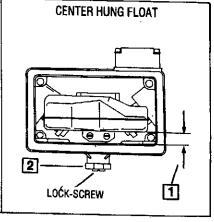


FIG. 5 **DRY FLOAT LEVEL ADJUSTMENT** with non-adjustable Needle Valve)

- 1. Invert fuel bowl and allow float tab to rest on seated needle. Caution: Do not exert pressure on resillent needle valve.
- 2. Measure distance between toe end of float and surface of fuel bowl on primary side, and heel end of float and surface of fuel bowl on secondary side.
- 3. To adjust, bend float tab.

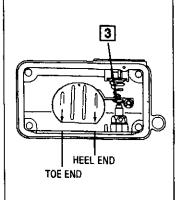
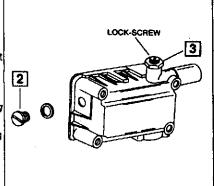


FIG. 6 WET FLOAT LEVEL **ADJUSTMENT**

- With car on flat surface, bring engine to normal operating temperature and then shut it
- Remove sight plug from fuel bowl. Fuel level should be a lower edge of sight plug hole. Caution: Place a suitable container or rag to collect spillover of fuel.
- To adjust, open lock-screw and turn adjusting nut. Re-tighten lock-screw while holding adjusting nut.

Important: Do not open sight plug while engine is running.



ADJUSTMENT DATA (Cont'd)

FIG. 7 VACUUM BREAK ADJUSTMENT

- Open throttle valve to clear fast idle cam then push diaphragm plunger upward to fully seat diaphragm. An outside vacuum source can be applied to diaphragm assy, as an alternate method.
- Apply lightly closing pressure to choke valve without pulling diaphragm. Measure distance between upper edge of choke valve and air horn wall.
- To adjust, bend 'U' shaped link as necessary.

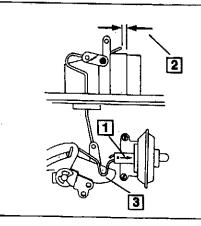


FIG. 8 UNLOADER ADJUSTMENT

- Hold throttle valves in wide open position.
- Apply lightly closing pressure to choke valve and measure distance between upper edge of choke valve and air horn wall.
- To adjust, bend unloader tang or link if applicable.

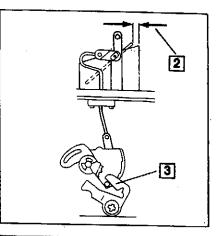


FIG. 9 BOWL VENT ADJUSTMENT

NOTE: Make this adjustment after curb idle was adjusted.

- With throttle valves fully closed, measure clearance between vent valve and seat. It should be as specified.
- 2. To adjust, bend rod as necessary.

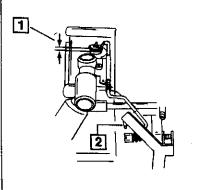


FIG. 10 PRIMARY AND SECONDARY PUMP ADJUSTMENT

- Pump cam positioned in hole 1 as shown unless otherwise specified. Throttle valves held in wide open position.
- Hold pump operating lever in a fully compressed position.
 Push down in direction of arrow.
- Measure clearance of 1/64" between end of pump lever and adjusting nut.
- To adjust, turn screw as necessary.

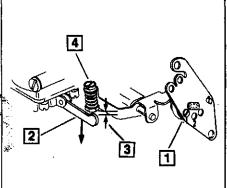


FIG. 11 QUALIFYING CHOKE CONTROL LEVER

- Open throttle valves and close choke valve by pushing up choke control lever.
- Measure distance between top of hole in choke control lever and surface of carburetor. (Carburetor should be on flat surface).
- To adjust, bend 'U' shaped link as necessary.

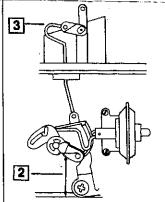


FIG. 12

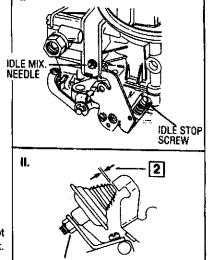
I. SLOW IDLE ADJUSTMENT

With engine at normal operating temperature and choke valve wide open, adjust idle mixture needles to a smooth idle. Then, adjust idle stop screw to the proper R.P.M. as indicated on engine decal.

II. DASHPOT ADJUSTMENT

NOTE: Step one should be performed before this adjustment.

- Push plunger inward and measure distance between end of plunger and throttle arm.
- To adjust, loosen locknut and turn dashpot assembly as necessary. Retighten locknut.



3

FIG. 13 SECONDARY THROTTLE STOP ADJUSTMENT (If applicable)

- Back out secondary throttle stop screw until throttle valves are closed.
- Turn screw inward until it contacts stop, then turn in 1/2 to 3/4 turns more.

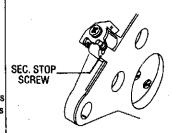
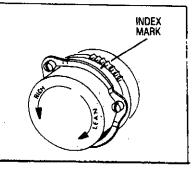


FIG. 14 AUTO CHOKE ADJUSTMENT

 Align mark on thermostatic coil with appropriate mark on choke housing as indicated in specification chart.



SPECIFICATIONS BY APPLICATION

| Year | Application | Float
Adjust
(Dry)
Fig. 3&4 | Float Adj
Primary
Fig. 5 | ust. (Dry)
Secondary
Fig. 5 | Vacuum
Break
Adjust.
Fig. 7 | Unioader
Adjust | Bowl
Vent
Adjust | Qualifying
Choke
Adust. | Dashpol
Adjust | Auto
Choke |
|---|---|--------------------------------------|--------------------------------|-----------------------------------|--|---|--|-------------------------------|---|---|
| CHRYS | SLER MOTORS — SPECIFICA | | | rig, s | rig. / | Fig. 8 | Fig. 9 | Fig. 11 | Flg. 12 | Fig. 1 |
| 1971 | 1 383, 440 Fnn | ION I.D. | -A | | | | | | | |
| | -Carb. Nos. R4668; R4734; R6515
R4735, -1 | | 7/64 | 9/32 | 13/64² | 23/64 | 1/64 | 1.17/20 | | |
| | R6191, 6193 | _ | 15/64
15/64 | 17/64 | 13/64 | 23/64
5/32 | 1/64 | 1-17/32
1-17/32 | | 2NR
2NR |
| 1076 | R6538 | _ | 7/64 | 17/64
13/64 | 11/64³
7/32 | 5/32
3/8 | 1/64
1/64 | 1-17/32 | _ | 2NR |
| 1970 | 383, 440 Eng.
Carb. No. R4217 | | | | ,, | | 1/04 | 1-17/32 | | 2NR |
| | 1 R4217-1 -2 -3 | | 15/64 | 17/64 | 11/64 | 5/32 | 1 | 1-23/32 | | 2NR |
| | R4367, -1; R4736, -1; R4738,-1
R4218; R4360, 66 | | 15/64 | 17/64 | 27/64 | 3/8 | 1 | 1 22/20 | | |
| | 1 R4218-1 -2 -3 | _ | 15/64 | 17/64 | 5/64 | 5/32 | 1 | 1-23/32
1-23/32 | | 2NF
2NF |
| | R4360-1, -2; 4368, -1, 4369, -1;
R4737,-1, 4739, -1 | | | | | | | | | |
| 970-67 | 340 EngCarb. No. R6270,-1 | | 15/64 | 17/64 | 7/32 | 3/8 | 1 | 1-23/32 | | 2NF |
| | 1 383, 440 Fnn. | | 7/64 | 13/64 | 15/ 6 4 | 3/8 | 1/64 | 1-23/32 | | 2NF |
| 969-67 | -Carb. No. R4749,-1, -3 | | 15/64 | 17/64 | 15/644 | 3/8 | 1/64 | 1-23/32 | | |
| 1303-07 | 383, 440 Eng.
-Carb. No. R4166,-1, -2 | | 7.0.4 | | | | 1,04 | 1-20/02 | | 2NF |
| | [R4440,-1, -2 i | _ | 7/64
15/64 | 9/32
17/64 | 13/64
13/64 | 25/64
25/64 | 5/64
5/64 | 1-23/32 | _ | 2NA |
| | R3918,-1, -2
R3575,-1; R3667,-1 | - | 15/64 | 17/64 | 9/32 | 3/8 | 5/64
5/64 | 1-23/32
1-23/32 | | 2NF |
| CHEVE | ROLET - SPECIFICATION I.D. | | 15/64 | 17/64 | 17/648 | 13/32 | 3/32 | 1-23/32 | | 2NF
2NF |
| 967 | 302 327 396 427 Fno | -0 | | | | | | | | |
| | i -Carb. Nos. R3806,07,10,11,14,15 | _ | 5/16 | 11/326 | 3/167 | 17.004 | | | | |
| | R3836, 37, 38, 39 | | 11/32 | 11/32 | 11/64 | 17/64
17/64 | 3/32
3/32 | _ | _ | _ |
| CHRYL | SER MOTORS — SPECIFICA | TION I.D. | Ç | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 972 | 440 EngCarb. Nos. R6160,-1; | | Γ | | | | <u>:%</u> | | | |
| | R6253, 55, 57, 90, -1
-Carb. Nos. R6252, 54, 56 | _ | 7/64
7/64 | 13/64 | 3/16 | 23/64 | 1/64 | 1-9/16 | _ | l _ |
| AMC- | | | 1/04 | 13/64 | 11/32 | 23/64 | 1/64 | 1-9/16 | | 1 — |
| 1973-70 | 304, 350, 360, 390, 401 Eng.10 -Exc. | 9 | 1 | r | | | | _ | | |
| | Carb. No. R626710 | | _ | | 3/16
3/16 | 11/32
11/32 | 1/16 | _ | 7/64 | 1NF |
| 966-65
965-58 | 327 Eng.
250, 327 Eng. | 9 | | | 11/32 | 11/32 | 1/16
1/16 | | 1/8 | 1NF |
| | - SPECIFICATION I.DD | - | <u> </u> | | 3/16 | 17/64 | 1/16 | _ | 7/64
7/64 | 1NL1 |
| 960-58 | | | | | | - | | | | |
| | 332, 352, 361, 383, 401 Eng. | 9 | <u> </u> | | - | 17/64 | 1/16 | | 5/64 | Inde |
| 974-71 | LINCOLN, MERCURY - SPE | | ON I.DL |) | | | | | | |
| | Carb. Nos. R652010; 7053,-1
R6590 | 9 ' | - | | 7/32
15/64 | 11/32 | 1/16
1/16 | _ | 1/8 | 4NR |
| | R6591 | 9 | = | _ | 15/64
15/64 | 5/16 | 1/16 | - | 1/8
1/32 | 1NF |
| | Cosh Mar D2700 410 4450 445 | | | | | ı ə/ib | 1 1/16 1 | | | |
| 971-68 | Carb. Nos. R3796-110; 4452-110; | | | | 10/04 | 5/16 | 1/16 | | 5/64 | 3NF |
| 971-68 | 6291 ¹⁰ 1 ¹⁰ | 9 | _ | _ | 19/6413 | 11/32 | 5/64 | | 7/64 | |
| 1971-68 | 629110,-110
Carb. No. R445210
Carb. No. R4548 | 9
9 | = | = | 19/64 ¹³
7/64 | 11/32
17/64 | 5/64
1/16 | <u>-</u> | 7/64
1/8 | Inde
1NF |
| 971-68 | 629110,-110
Carb. No. R445210
Carb. No. R4548
Carb. No. R4549 | 9
9
9 | = = | = | 19/64 ¹³
7/64
1/4
15/64 | 11/32
17/64
1/4
5/16 | 5/64
1/16
1/16
1/16 | | 7/64
1/8
7/64 | Inde
1NF
1NF |
| 971-68 | 6291'9,-110
Carb, No. R4452'9
Carb, No. R4548
Carb, No. R4549
Carb, No. R4550-1
Carb, No. R4581 | 9
9
9
9 | | | 19/64 ¹³
7/64
1/4 | 11/32
17/64
1/4
5/16
5/16 | 5/64
1/16
1/16
1/16
1/16 | <u>-</u> | 7/64
1/8
7/64
7/64
1/32 | Inde
1NF
1NF
3NF |
| | 6291°,-11°
Carb. No. R44521°
Carb. No. R4548
Carb. No. R4549
Carb. No. R4550-1
Carb. No. R4581
Carb. No. R4699 | 9
9
9
9
9
9 | | | 19/64 ¹³
7/64
1/4
15/64 | 11/32
17/64
1/4
5/16 | 5/64
1/16
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1/16
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7/64
1/32
9/64 | Inde
1NF
1NF
3NF
1NF |
| 1971-68
1967-65 | 6291°,-110
Carb. No. R4452°
Carb. No. R4548
Carb. No. R4549
Carb. No. R4550-1
Carb. No. R4581
Carb. No. R4681
Carb. No. R4699 | 9
9
9
9
9
9 | | = | 19/64 ¹³ 7/84 1/4 15/64 15/64 | 11/32
17/64
1/4
5/16
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17/64
19/64 | 5/64
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1/16
5/64 | | 7/64
1/8
7/64
7/64
1/32
9/64
7/64 | Inde
1NF
1NF
3NF
1NF |
| 1967-65 | 629119,-110 Carb. No. R445219 Carb. No. R4548 Carb. No. R4549 Carb. No. R4550-1 Carb. No. R4581 Carb. No. R4581 Carb. No. R4699 Carb. Nos. R3300,-1; 3489, 90, 91, 92; 4005, 06 Carb. No. R379410, 9610 | | | - | 19/64 ¹³ 7/84 1/4 15/64 15/64 — — 3/16 | 11/32
17/64
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19/64 | 5/64
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1NL |
| | 629119,-110 Carb. No. R445219 Carb. No. R4548 Carb. No. R4549 Carb. No. R4550-1 Carb. No. R4581 Carb. No. R4581 Carb. No. R4699 Carb. Nos. R3300,-1; 3489, 90, 91, 92; 4005, 06 Carb. No. R379410, 9610 | • | | = | 19/64 ¹³ 7/84 1/4 15/64 15/64 | 11/32
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1NL |
| 967-65 | 6291°,-11° Carb. No. R44521° Carb. No. R4548 Carb. No. R4549 Carb. No. R4550-1 Carb. No. R4550-1 Carb. No. R4581 Carb. No. R4699 Carb. Nos. R3300,-1; 3489, 90, 91, 92; 4005, 06 Carb. No. R37941°, 961° Carb. Nos. R1740-1; 1847-1, 48-1, 49, 50; R2112, 42, -1, 43, -1 | • | | | 19/64 ¹³ 7/84 1/4 15/64 15/64 — — 3/16 | 11/32
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1NL |
| 967-65
964-58 | 6291°,-110 Carb. No. R44521° Carb. No. R4548 Carb. No. R4549 Carb. No. R4550-1 Carb. No. R4550-1 Carb. No. R4581 Carb. No. R4699 Carb. Nos. R3300,-1; 3489, 90, 91, 92; 4005, 06 Carb. No. R37941°, 961° Carb. Nos. R1740-1; 1847-1, 48-1, 49, 50; R2112, 42, -1, 43, -1; 2652, -1; 2804, 05; 3113, 15 | 9 9 | | _ | 19/64 ¹³ 7/64 1/4 15/64 15/64 | 11/32
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5/16
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5/64 | | 7/64
1/8
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7/64 | Inde
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3NF
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Index |
| 967-65 | 6291°,-11° Carb. No. R44521° Carb. No. R4548 Carb. No. R4549 Carb. No. R4550-1 Carb. No. R4550-1 Carb. No. R4581 Carb. No. R4699 Carb. Nos. R3300,-1; 3489, 90, 91, 92; 4005, 06 Carb. No. R37941°, 961° Carb. Nos. R1740-1; 1847-1, 48-1, 49, 50; R2112, 42, -1, 43, -1 | 9 9 | PECIFIC | _ | 19/64 ¹³ 7/84 1/4 15/64 15/64 15/64 11/32 | 11/32
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| 967-65
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FORD,
973-72 | 6291°,-110 Carb. No. R44521° Carb. No. R4548 Carb. No. R4548 Carb. No. R4550-1 Carb. No. R4581 Carb. No. R4581 Carb. No. R4581 Carb. No. R4689 Carb. Nos. R3300,-1; 3489, 90, 91, 92; 4005, 06 Carb. No. R37941°, 961° Carb. Nos. R1740-1; 1847-1, 48-1, 49, 50; R2112, 42, -1, 43, -1; 2652, -1; 2804, 05; 3113, 15 KIEKHAEFER, PALMER MAR 302 Eng. Carb. No. R64071° R48801°; 4473 | 9 9 | PECIFIC | _ | 19/64 ¹³ 7/64 1/4 15/64 15/64 | 11/32
17/64
1/4
5/16
5/16
17/64
19/64
17/64
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5/64 - 7/64 | Index Index Index Index Index Index |
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971-69 | 6291°,-110 Carb. No. R44521° Carb. No. R4548 Carb. No. R4548 Carb. No. R4550-1 Carb. No. R4550-1 Carb. No. R4581 Carb. No. R4581 Carb. No. R4699 Carb. Nos. R3300,-1; 3489, 90, 91, 92; 4005, 06 Carb. No. R37941°, 961° Carb. Nos. R1740-1; 1847-1, 48-1, 49, 50; R2112, 42, -1, 43, -1; 2652, -1; 2804, 05; 3113, 15 KIEKHAEFER, PALMER MAR 302 Eng. Carb. No. R64071° R46801°; 4473 351 Eng. Carb. Nos. 61511°, 521° | ;
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FORD | 629119,-110 Carb. No. R445219 Carb. No. R4548 Carb. No. R4549 Carb. No. R4550-1 Carb. No. R4550-1 Carb. No. R4581 Carb. No. R4699 Carb. Nos. R3300,-1; 3489, 90, 91, 92; 4005, 06 Carb. No. R379419, 9619 Carb. Nos. R1740-1; 1847-1, 48-1, 49, 50; R2112, 42, -1, 43, -1; 2652, -1; 2804, 05; 3113, 15 KIEKHAEFER, PALMER MAR 302 Eng. Carb. No. R640719 R468019; 4473 351 Eng. Carb. Nos. 615119, 5219 TRUCKS — SPECIFICATION I. | ;
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- For CAS carb. set 5/64; for ECS carb. set 1/32.
 Carb. No. R4734 set 13/32; R6515 set 1/4.
 Carb. No. R6193 set 5/64.
 Carb. No. R4749 set 9/32.
 Carb. No. R3667, -1 set 13/64.
 Carb. Nos. R3806, 07 set 9/32.
 Carb. Nos. R3814, 15 set 11/64.

- © Carb. No. R3839 set 13/64.

 © Float parallel with fuel bowl surface.

 © Position pump cam in hole No. 2.

 Carb. Nos. R3391; R1740-1 set 1NR.

 Carb. No. R7053-1 set 2NR.

 Carb. Nos. R4452-1; R6291, -1 set 5/32.

 Carb. No. R3300 set 3NR.

ABBREVIATIONS:

C.A.S. - Cleaner Air System
E.C.S. - Evaporation Control System
Exc. - Except
NL - Notch Lean
NR - Notch Rich