



**Performer Series Carburetor
Rebuild Kit
Catalog #1477
Models 1405-1406-1407-1408**

- Please read these instructions carefully before attempting to rebuild your carburetor. Make sure to refer to your carburetor Owner's Manual for further information if need be. If you have any questions or problems, do not hesitate to contact our **Technical Hotline at :1-800-416-8628.**
- To check kit contents see exploded view of carburetor and parts description on last page. Verify that all parts underlined on list are in your kit. Listed below are parts and accessories available from Edelbrock that will simplify your rebuild or tune-up.

Parts & Accessories

Cruise Control Kits:

Cruise Control Kit - Chevrolet #1484

Performer Series Carburetor Maintenance Kits:

Float Kit #1489

Includes 2 floats, 2 pins and a convenient float setting gauge.

Accelerator Pump #1470

Includes accelerator pump, spring and cup assembly.

Gasket Kit for #1405, #1406, #1407, #1480 #1472

Includes all gaskets for carburetor, plus carburetor-to-manifold flange gasket.

Choke Cap Kit #1474

Includes black plastic electric choke cap plus gasket, 3 screws and 3 locking tabs.

Performer Series Carburetor Calibration Kits:

Jet Set for Model #1405 #1479

Contains five pair metering rod springs as in #1464.

Five sets of jets. Six pairs of metering rods. One pair metering rod retaining springs.

Jet Set for Model #1407 #1480

Contains five pair metering rod springs as in #1464.

Six sets of jets. Five pairs of metering rods. One pair metering rod retaining springs.

Performer Series Carburetor Accessories:

Spring Assortment for Metering Rods (5 pair) #1484

Springs determine the vacuum level of which the metering rod goes from cruise to power mode.

Acceleration Pump Nozzles #1475

Three nozzles and gaskets (.024, .033, .043)

(2) Needle and Seat (.0935) #1465

Spring- loaded for off-road.

(2) Needle and Set (.110) #1466

EGR Adaptor #1476

Use on Edelbrock #3701 or #3704 manifolds with #1408 carburetor.

Electric Choke Kit #1478

Use with model #1405 and #1407 to convert to electric choke. All parts included for installation.

Manual Choke Cable Kit #8023

Fuel Line Kit (Neoprene hose, clamps, & hose covering) #8090

Metering Jets:

Orifice Size	Part #
(Metering Jets Orificed in Pairs)	
.077	#1420
.080	#1421
.083	#1422
.086	#1423
.089	#1424
.092	#1425
.095	#1426
.098	#1427
.100	#1428
.101	#1429
.104	#1430
.107	#1431
.110	#1432
.113	#1433
.116	#1434
.119	#1435

Metering Rods:

Cruise	Power	Part #
(Metering Rods Orificed in Pairs)		
.062	.052	#1441
.063	.037	#1442
.063	.047	#1443
.065	.037	#1444
.065	.047	#1445
.068	.042	#1446
.068	.047	#1447
.068	.052	#1448
.070	.037	#1449
.070	.042	#1450
.070	.047	#1451
.070	.052	#1452
.071	.047	#1453
.073	.037	#1454
.073	.042	#1455
.073	.047	#1456
.073	.052	#1457
.075	.037	#1458
.075	.047	#1459

DISASSEMBLY:

- Remove cover screws (1) and cover plates (2). Remove step up pistons (3) rods (4) and springs (6) as an assembly. Rods (4) may be removed from piston (3) by unhooking retainer springs (6) from end of rods. Remove vacuum piston springs (5). Remove pin spring (7) and remove connector rod (15) from levers.
- Remove screw (19) pump lever (20) and pump “S” link (21) from end of plunger stem. Remove fuel inlet fitting and gasket (24). On models 1406 and 1408 remove choke cover mounting screws (10) choke housing retainer (10A). Thermostatic coil assembly (11) choke housing gasket (13) baffle plate (12) and 3 choke piston housing screws (not shown). Remove choke piston housing (9) seal (9A) rod and clip (8). Remove bowl cover screws (16 and 17) and bracket (Models 1405 and 1407). Lift bowl cover (18) straight up from fuel bowl (49) to avoid damage to parts attached. Remove float pins (25) floats (26) needle-seat and gasket assembly (27). Remove bowl gasket (28).
- Remove plunger assembly (29) and spring (30). Remove venturi screws (39). Mark primary venturi assemblies (32) and secondary venturi assemblies (40) before removal so they can be reinstalled in their proper location. Remove primary and secondary venturi gaskets (33 and 41). Remove primary jets (43) and secondary jets (44), noting their locations. Remove pump jet screws (34) jet housing (35) and gasket (36). Invert fuel bowl (49) to remove discharge checkweight (37) and check ball (38). Remove idle mixture screws and springs (46). Remove rubber vacuum caps at this time.

CLEANING:

Clean all parts thoroughly in an approved cleaning solvent or lacquer thinner. Special attention should be given to carbon deposits in throttle bores and passages. Do not use wires or pointed tools to clean passages and calibrated holes as calibration of carburetor may be destroyed. Do not immerse rubber or similar materials in cleaning solvent.

REASSEMBLY:

Reverse Disassembly sequence using reference numbers shown in exploded view as a guide and note the following special instructions.

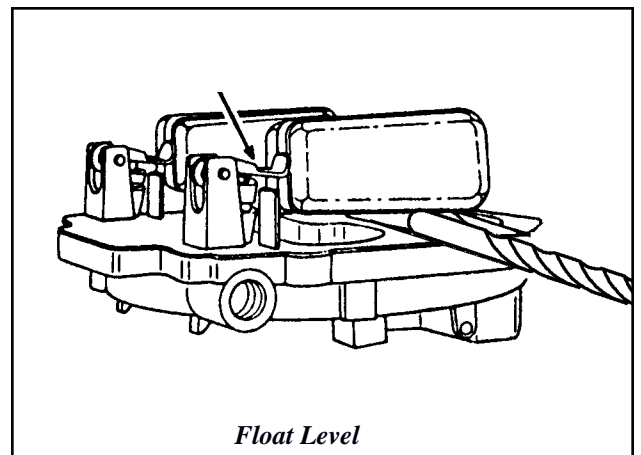
1. To ensure proper usage of gaskets and parts packaged in kit use old gaskets and parts for identification.
2. Idle mixture screws (46) should be seated lightly and then backed out approximately 1-1/2 to 2 turns for initial setting.
3. Apply a light film of lubricant to cup of plunger assembly (29) before installing.
4. Install open end of “S” link (21) in pump shaft toward choke valve.
5. Reinstall venturi assemblies (32 and 40) in their proper location.
6. Be sure the fuel baffles on bowl cover slide down in front of baffle plates in fuel bowl (49) or the bowl cover will not index correctly, causing the floats to hang up.
7. When installing bowl cover (18) care must be taken to center small brass bleed tubes on primary venturi assemblies (32) so they will pass through holes in bowl cover.
8. Refer to Adjustment Data for adjustment specification.

ADJUSTMENT DATA:

FLOAT LEVEL (FIG. 1)

With bowl cover inverted, bowl cover gasket in place, and weight of float seating needle, there should be 7/16" between top of each float and bowl cover gasket (at outer end). The sides of floats should be parallel to the outer edge of the bowl cover. To adjust, bend float lever. **CAUTION! DO NOT PRESS NEEDLE INTO SEAT WHEN ADJUSTING FLOAT LEVER.**

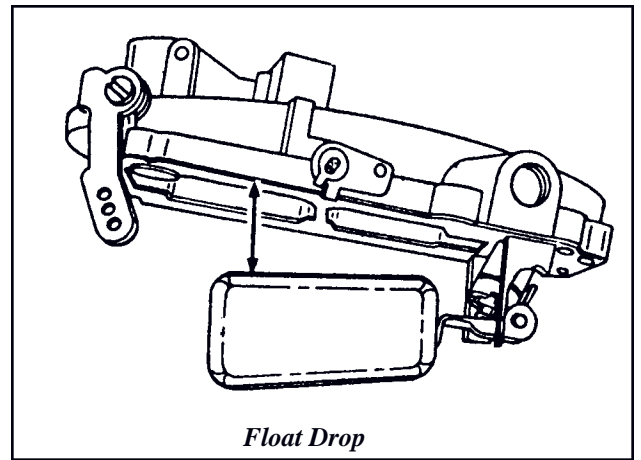
Figure 1



FLOAT DROP (FIG. 2)

With bowl cover held in upright position adjust stop tab on float brackets to obtain $15/16$ " between (outer end) of each float and bowl cover gasket. To adjust bend tab on float lever.

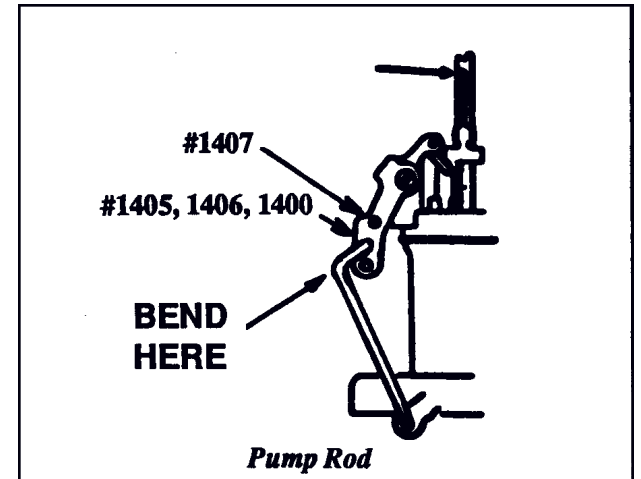
Figure 2



PUMP (FIG. 3)

Back out idle speed screw to allow primary throttle valves to seat in bores. (Models 1405-1406-1408) Install pump connector rod in second hole from top of pump arm. Bend pump rod to obtain $17/32$ " from top of pump shaft to bowl top. (Model 1407) Install pump connector rod in top hole on pump arm. Bend pump rod to obtain $19/32$ " from top of pump shaft to bowl top.

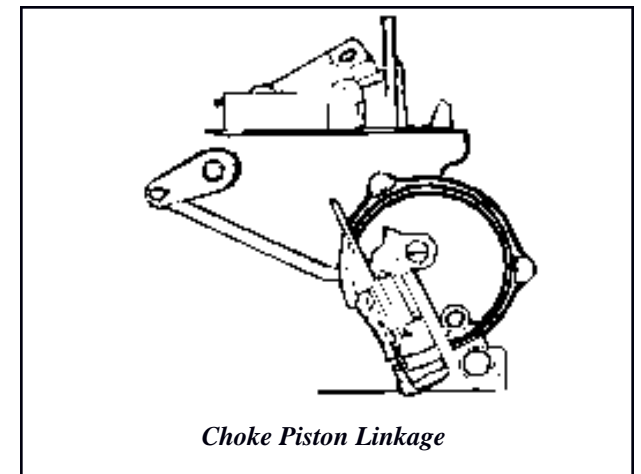
Figure 3



ELECTRIC CHOKE PISTON LINKAGE (FIG. 4)

Open the choke valve and insert a .026 wire (bend 90 degrees $1/8$ " from end) between top of slot in choke piston cylinder and bottom of the slot in the piston. Hold wire in position and close choke valve by pressing on piston lever (A) until resistance is felt. The dimension (c) should be from $3/64$ " to $5/64$ " between the top edge of choke valve and wall of air horn. To adjust bend rod (B).

Figure 4

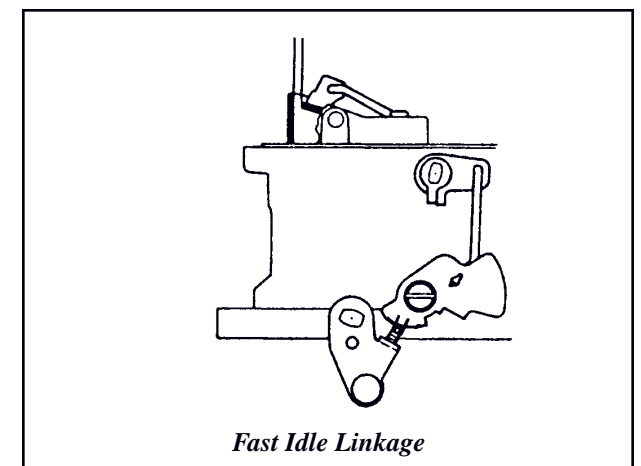


FAST IDLE LINKAGE (FIG. 5)

For 1405-1407 see FIG. 12

Place fast idle screw (a) on second step of cam. Move choke valve toward the closed position as far as possible without forcing. The dimension (C) should be $3/64$ " to $5/64$ " between the upper edge of choke valve and wall of air horn. To adjust, bend rod (D).

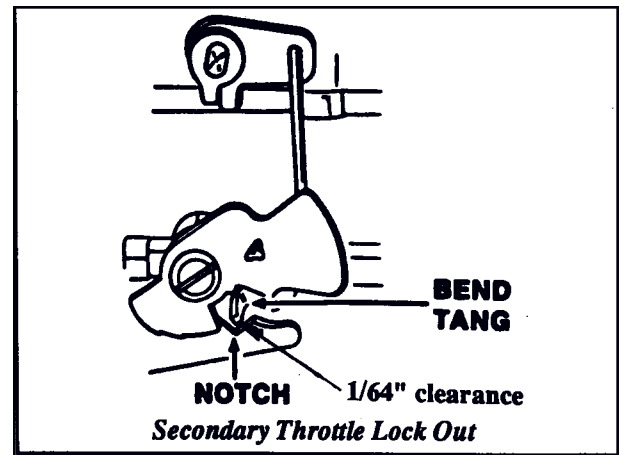
Figure 5



SECONDARY THROTTLE LOCK OUT 1406-1408 (FIG. 6)

With throttle lever at idle position and choke valve closed, bend tang on secondary throttle shaft to have $1/64$ " clearance between tang and lockout arm.

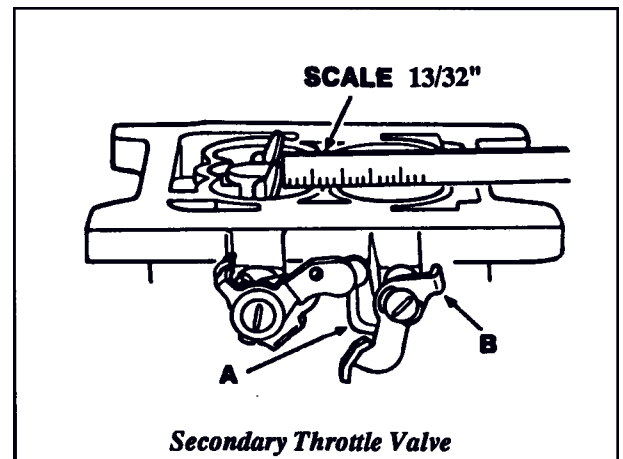
Figure 6



SECONDARY THROTTLE VALVE OPENING (FIG. 7)

Secondary throttle valves should just start to open when there is $13/32$ inch between primary throttle valve and bore of carburetor (as shown). To adjust, bend rod (A). With primary throttle valves wide open, adjust stop tang (B) until secondary valves are 5 degrees before full vertical position.

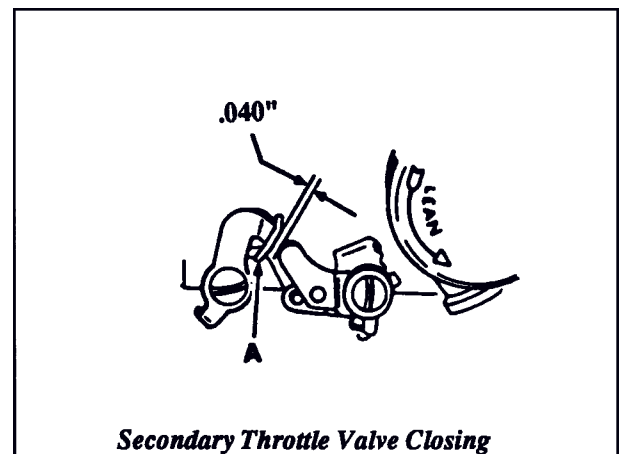
Figure 7



SECONDARY THROTTLE VALVE CLOSING (FIG. 8)

With primary and secondary throttle valves tightly closed, there should be $.040$ clearance between levers (as shown). To adjust, bend shoe on lever (A).

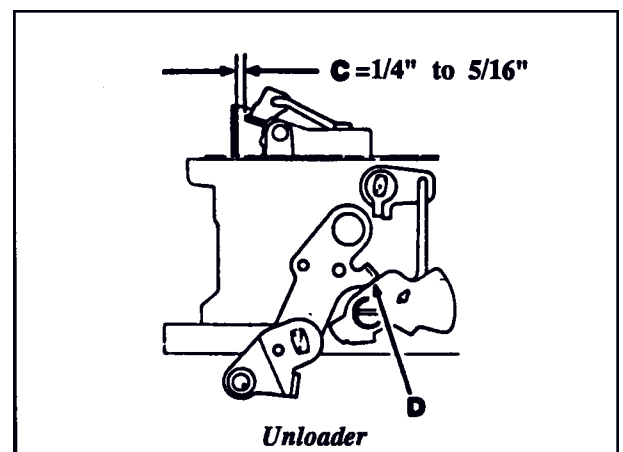
Figure 8



UNLOADER (FIG. 9)

With throttle valves open, close choke valve as far as possible without forcing. The dimension (C) between top edge of choke valve and inner wall of air horn should be $1/4$ " to $5/16$ ". To adjust, bend tang (D) on throttle lever.

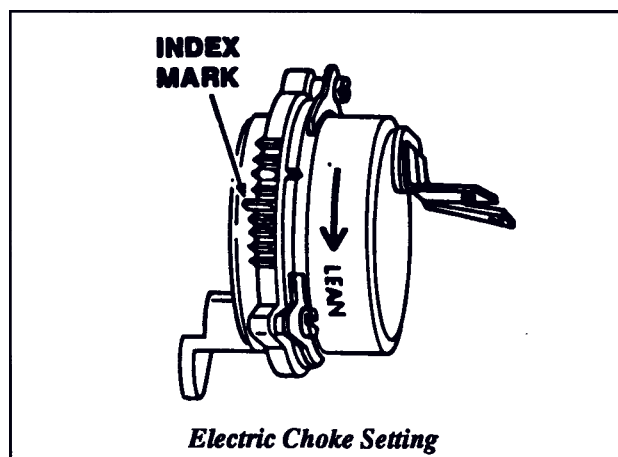
Figure 9



ELECTRIC CHOKE SETTING 1406-1408 ONLY (FIG. 10)

With choke cover cold, rotate cover against spring tension until mark on thermostat cover is aligned with index mark on housing. Turn clockwise an additional two (2) notches rich for proper setting. After engine is warmed up, check that choke valve has opened fully and that it operates freely.

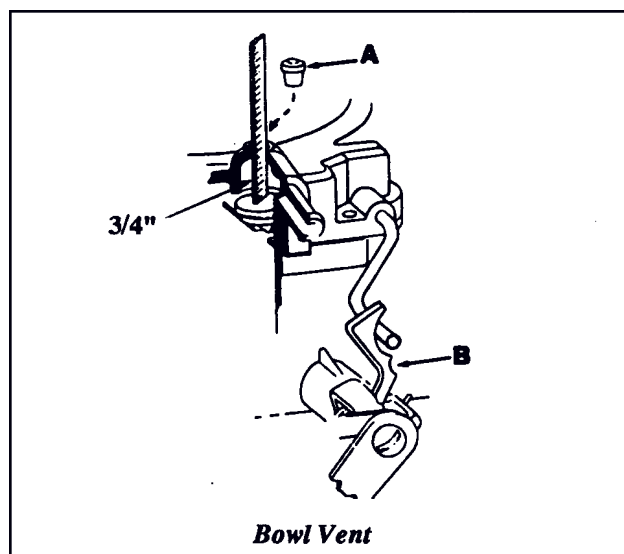
Figure 10



BOWL VENT MODEL 1408 (FIG. 11)

Remove plug (A) from hole in air horn and insert a narrow ruler. Allow ruler to rest lightly on top of valve. With throttle valves closed and choke open, the dimension from the top of the valve to top of hole in casting should be $3/4"$. To adjust, bend valve operating lever (B).

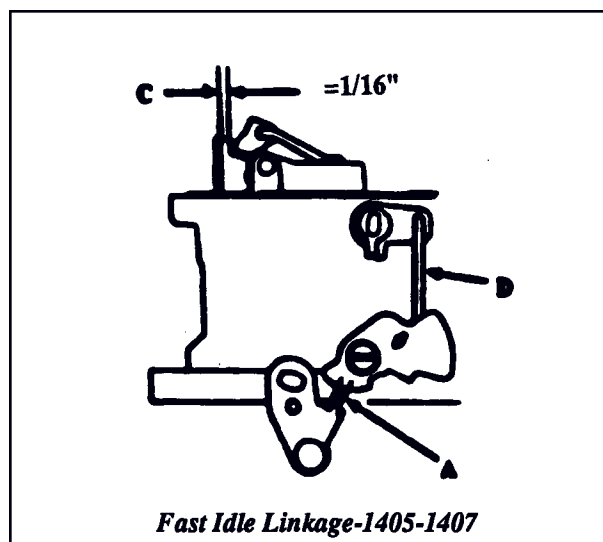
Figure 11



FAST IDLE LINKAGE 1405-1407 ONLY (FIG. 12)

To adjust the fast idle linkage (Figure 12) place the fast idle screw (A) between the two notches on the cam. Close the choke valve as far as possible without forcing it. The dimension (C) should be $1/16"$ between the choke valve and the air horn. To adjust this dimension, bend rod (D).

Figure 12



EXPLODED VIEW OF EDELBROCK CARBURETOR

Items underlined are supplied in kit. Also included but not shown:

- 1- CARBURETOR BASE GASKET
- 1- AIR CLEANER GASKET
- 1-MEASURE SCALE
- 1-VACUUM PLUG

ITEM DESCRIPTION

1. STEP-UP PISTON COVER SCREW (2)
2. STEP-UP PISTON COVER PLATE (2)
3. STEP-UP PISTON (2)
4. STEP-UP RODS (2)
5. STEP-UP PISTON SPRINGS (2)
6. STEP-UP ROD RETAINER SPRING (2)
7. PIN SPRING (SMALL) (3)
8. CHOKE CONNECTOR ROD & LEVER*
9. CHOKE PISTON HOUSING*
- 9A. CHOKE PISTON HOUSING SEAL*
- 9B. CHOKE PISTON HOUSING FILTER*
10. MOUNTING SCREWS (3)
- 10A. CHOKE HOUSING RETAINER (3)*
11. THERMOSTATIC COIL ASSEMBLY*
12. BAFFLE PLATE*
13. CHOKE HOUSING GASKET*
14. CHOKE/CAM CONNECTOR ROD
15. PUMP CONNECTOR ROD
16. AIRHORN ATTACHING SCREW (1)
17. AIRHORN ATTACHING SCREW (8)
- 17A. CHOKE CABLE BRACKET (1405-1407 only)
18. AIRHORN ASSEMBLY
19. PUMP ARM SCREW
20. PUMP ARM
21. PUMP CONNECTOR LINK
22. FUEL INLET FITTING
23. STRAINER
24. FUEL INLET FITTING GASKET
25. FLOAT LEVER PIN (2)
26. FLOAT & LEVER ASSEMBLY (2)
27. NEEDLE & SEAT ASSEMBLY (2)
28. AIRHORN GASKET
- 28A. BOWL VENT PLUG (1408 only)
- 28B. BOWL VENT VALVE (1408 only)
29. PUMP PLUNGER ASSEMBLY
30. PUMP PLUNGER SPRING
31. PRIMARY CLUSTER SCREWS (4)
32. PRIMARY VENTURI CLUSTERS (2)
33. VENTURI CLUSTER GASKET (2)
34. PUMP JET HOUSING SCREW (2)
35. PUMP JET HOUSING
36. PUMP JET HOUSING GASKET
37. PUMP DISCHARGE WEIGHT
38. PUMP DISCHARGE BALL
39. SECONDARY CLUSTER SCREWS (4)
40. SECONDARY VENTURI CLUSTER (2)
41. VENTURI CLUSTER GASKET (2)
42. AUXILIARY VALVES & WEIGHTS
43. PRIMARY METERING JETS (2)
44. SECONDARY METERING JETS (2)
45. FUEL BOWL BAFFLE PLATES (2)
46. IDLE MIXTURE SCREW & SPRING (2)
47. FAST IDLE CAM
48. IDLE SPEED SCREW
49. BODY ASSEMBLY

