

AIR CLEANER

REMOVAL AND INSTALLATION (Vehicles With Carburetor)

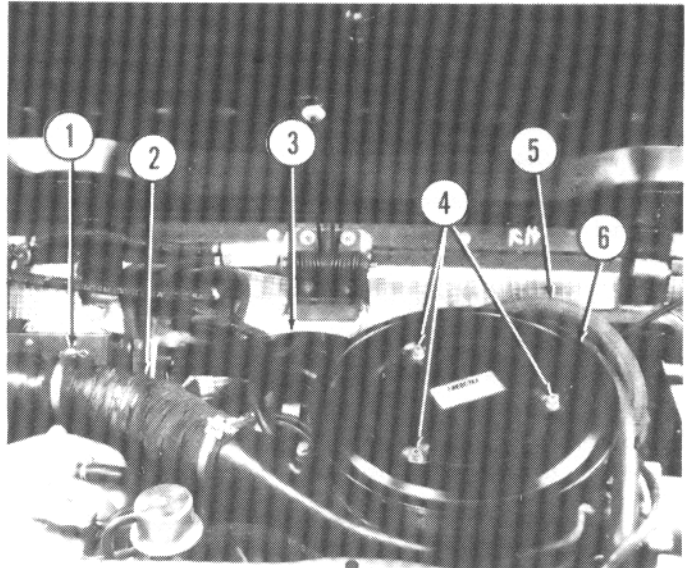
Loosen clamp (1) holding fresh air duct (2) to fan.

Disconnect hoses (5) from side of air cleaner (3). Remove three nuts (4) and washers holding cover (6) on air cleaner. Remove filter element.

Remove four nuts holding air cleaner on carburetor. Lift air cleaner and disconnect hose from bottom. Remove air cleaner with fresh air duct attached.

Installation is reverse of removal. Make sure metal bushings are installed in rubber spacer.

1. Clamp 2. Duct 3. Air cleaner 4. Nut 5. Hose 6. Cover



REMOVAL AND INSTALLATION (Vehicles With Fuel Injection)

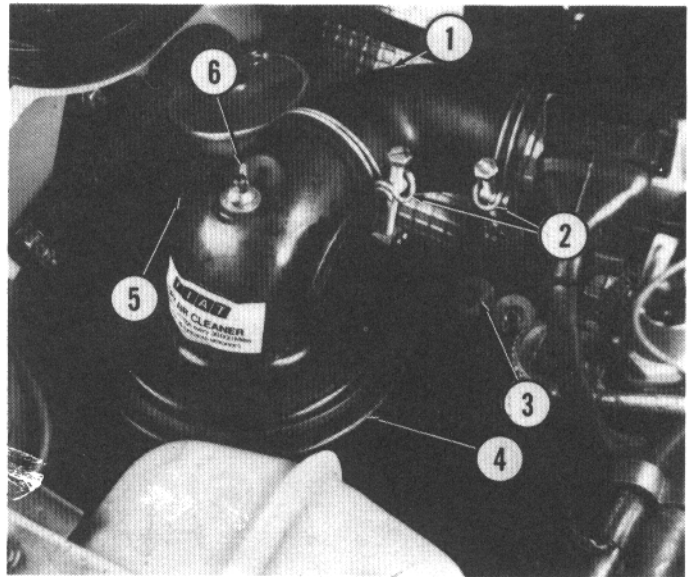
Loosen clamps (2) and remove air supply hose (1).

To remove filter element, remove wing nut (6) and top of air cleaner.

Remove two nuts (3 and 5) holding air cleaner assembly (4) to body and firewall. Remove air cleaner assembly.

Installation is reverse of removal.

1. Air supply hose 2. Clamps 3. Nut 4. Air cleaner assembly
5. Nut 6. Wing nut



CARBURETOR COOLING FAN

REMOVAL AND INSTALLATION

Remove four screws (3 and 5) holding fan duct to fan mounting plate.

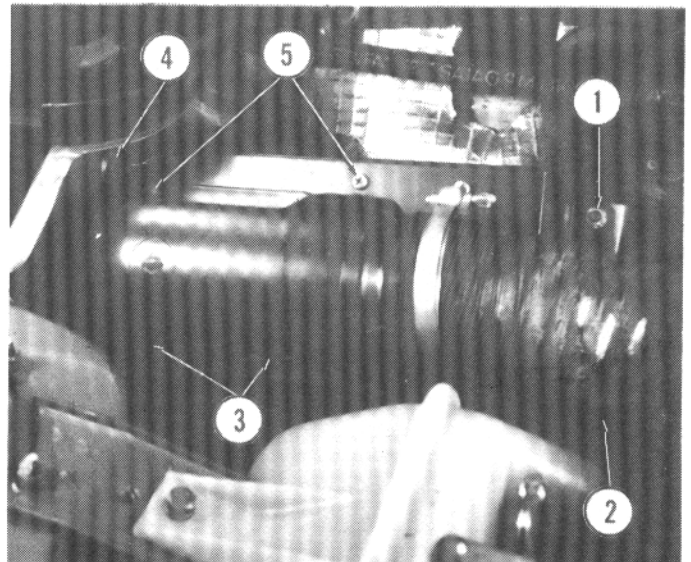
Separate duct from mounting plate with duct hose (2) attached and set to one side.

Disconnect wire at connector.

Remove four nuts (1 and 4) holding mounting plate to body and remove fan assembly.

Install in reverse order. Make sure ground wire is installed under mounting nut.

1. Nut 2. Duct hose 3. Screws 4. Nut 5. Screws



CARBURETOR

REMOVAL AND INSTALLATION

NOTE: Mark lines, hoses, and wires prior to removal to identify for installation.

Remove air cleaner.

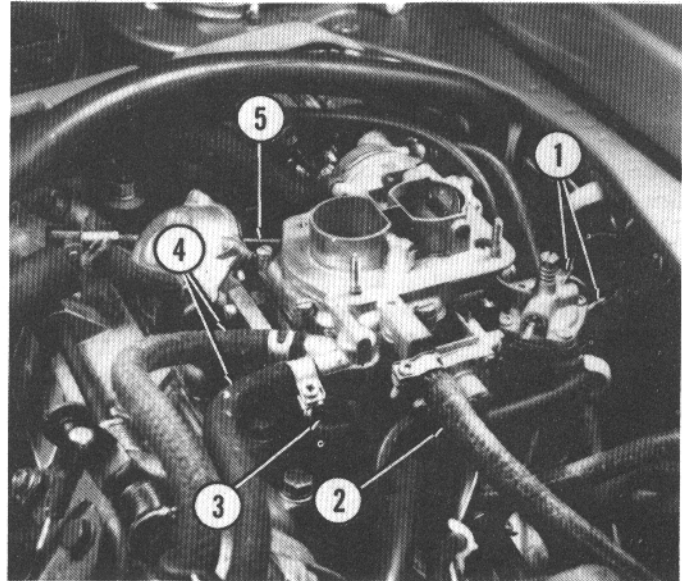
From carburetor, disconnect fuel inlet and return hoses (4), charcoal canister hose (2), and all remaining vacuum and coolant hoses.

Disconnect three electrical connectors (1) from carburetor.

Disconnect throttle linkage (5) at carburetor.

Remove four nuts (3) holding carburetor. Remove carburetor and spacer.

Installation is reverse of removal. Connect vacuum, fuel and water lines to connections as shown below.

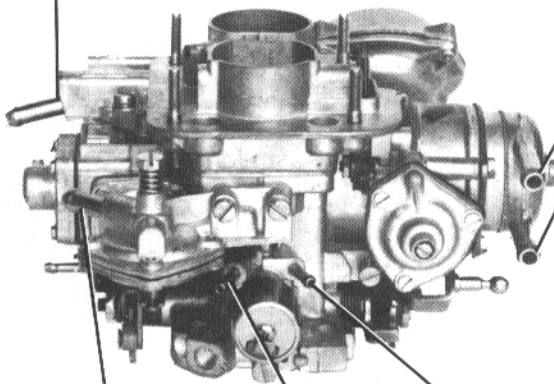


1. Electrical connectors 2. Hose 3. Nut 4. Fuel hose
5. Throttle linkage

FLOAT BOWL
VAPOR OUTLET

COOLANT
HOSE CONNECTION

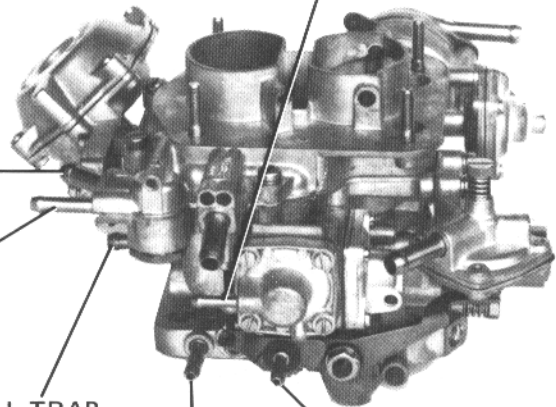
VACUUM ACCELERATOR
PUMP
CONNECTION



FUEL
INLET
CONNECTION

FUEL RETURN
CONNECTION

CHARCOAL TRAP
PURGE CONNECTION



A.C. FAST
IDLE CONNECTION

EGR SIGNAL
CONNECTION

DISTRIBUTOR SIGNAL
CONNECTION

CRANKCASE VENT
CONNECTION

POWER VALVE
CONNECTION

AUTOMATIC CHOKE

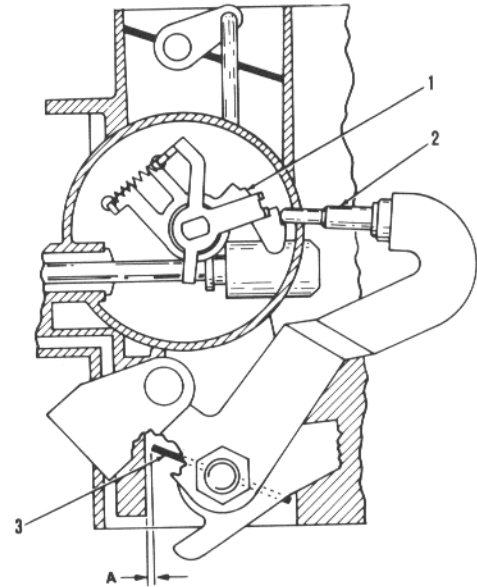
CHECK AND ADJUSTMENT

Remove carburetor from vehicle. Remove three screws holding automatic choke cover and gasket.

Choke Fast Idle

Set fast idle screw (2) on second step of cam (1). Check that primary throttle opening (gap A) is 0.033 to 0.037 in. (0.85 to 0.95 mm). If gap A is not correct, adjust screw (2).

1. Fast idle cam
2. Fast idle adjustment screw
3. Primary throttle plate

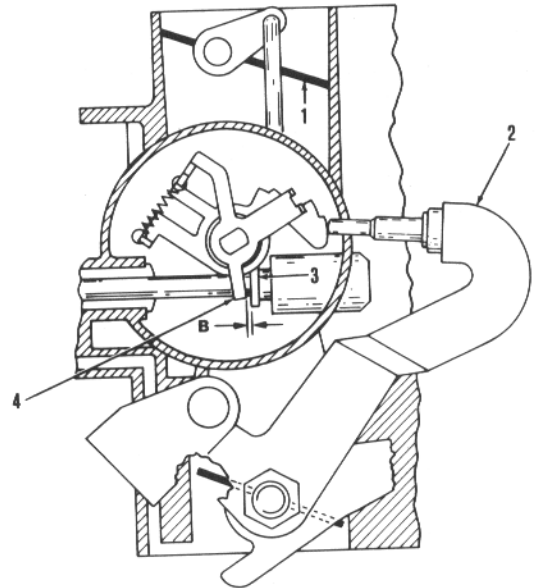


Choke Unloader Lever Clearance

Pull fast idle linkage (2) back. Close choke plate (1). Release linkage (2). Measure gap B between lever (4) and shoulder of bushing (3). A spark plug gap gage of the bent wire type can be used.

Gap should be 0.012 to 0.039 in. (0.3 to 1.0 mm). If gap is not correct, carefully bend tang (4).

1. Choke plate
2. Fast idle linkage
3. Spring
4. Tang

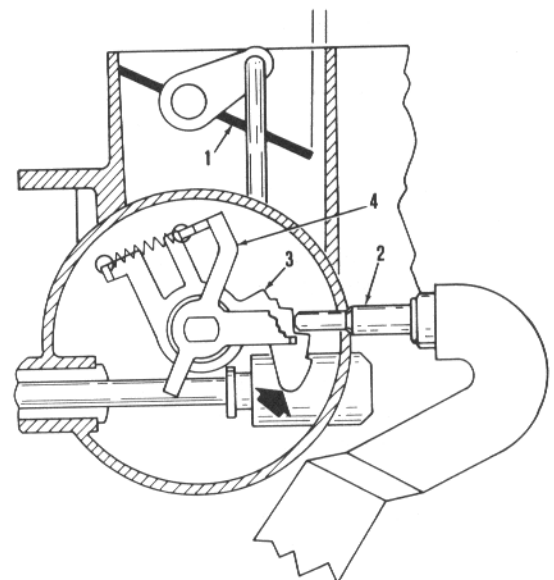


Fast Idle Cam Intermediate Setting

Set screw (2) on third step of cam (3). Make sure screw is in proper contact with third step. If necessary, move cam (3) in direction of arrow.

Check that gap C is 0.098 to 0.118 in. (2.5 to 3.0 mm). If gap C is not correct, bend lever (4).

1. Choke plate
2. Fast idle screw
3. Fast idle cam
4. Lever



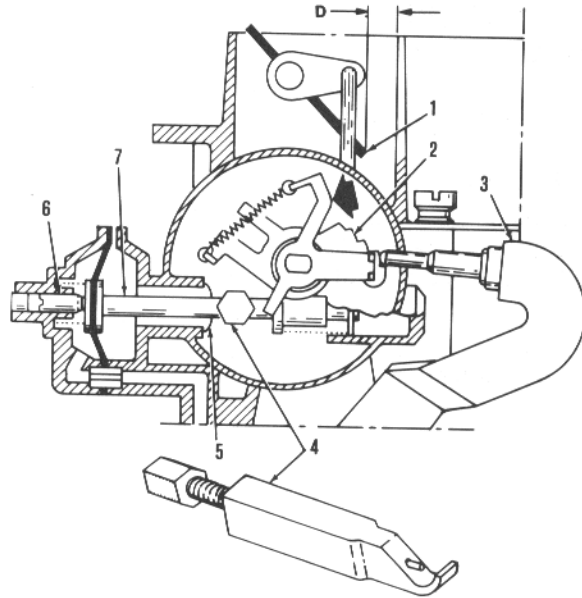
Choke Unloader Minimum Opening

With linkage (3) on second step of cam (2), position tool No. 4460 on rod (7). Push tool to left until rod contacts stop screw (6). Hold it there.

NOTE: Make sure tool is not touching bushing (5) in housing. This would restrict travel of rod (7).

Measure gap D. Gap should be 0.128 to 0.147 in. (3.25 to 3.75 mm). If gap is not correct, adjust travel of rod (7) by turning screw (6). Clockwise to decrease gap-counter-clockwise to increase gap.

- 1. Choke plate 2. Fast idle cam 3. Fast idle linkage
- 4. Tool No. 4460 5. Bushing 6. Stop screw 7. Rod



FLOAT LEVEL ADJUSTMENT

Remove six screws holding carburetor top cover. Carefully remove cover/float assembly and gasket.

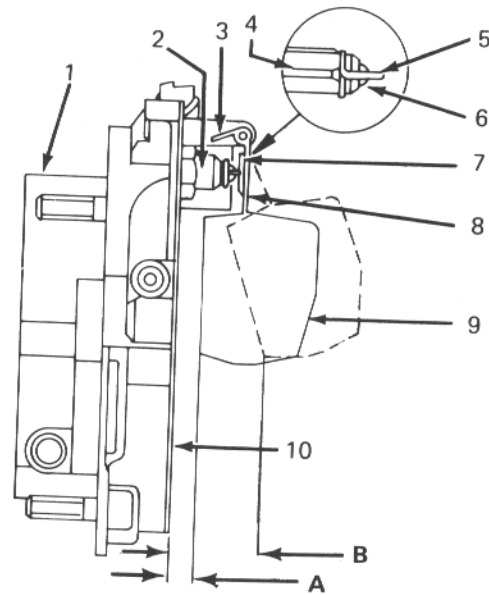
Check that needle valve seat (2) is tight in cover. Check that float (9) is free of dents or punctures. Check that float can move freely on hinges.

Hold dual float assembly in vertical position with needle valve lightly seated. Measure distance A between each float and cover gasket. Distance should be .266 to .285 in. (6.75 to 7.25 mm). Make sure floats are same distance from gasket. If not, bend float arm (8). Then if float assembly is not at specified distance, carefully bend tang (7) to obtain adjustment.

To obtain float drop distance B of 0.354 in. (9 mm), bend lug (3).

Carefully replace cover/float assembly and secure with six screws.

- 1. Carburetor cover 2. Needle valve seat 3. Float drop lug
- 4. Needle valve 5. Return hook 6. Damper ball 7. Float tank
- 8. Float arm 9. Float 10. Gasket



CARBURETOR ADJUSTMENT

NOTE: For proper specifications, always refer to EPA Conformity Tag in engine compartment.

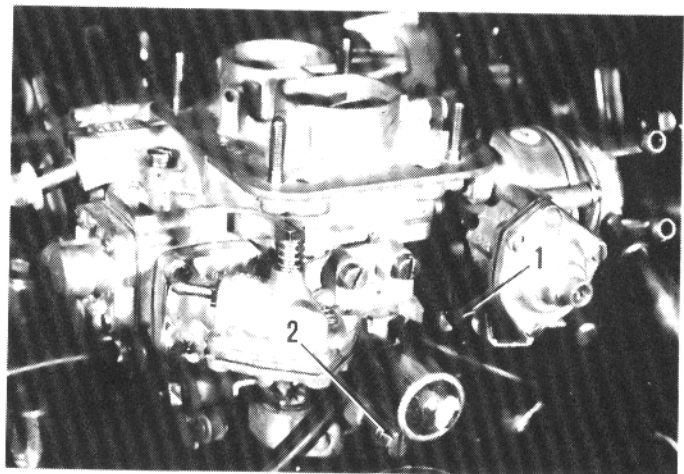
Apply hand brake. Start engine and allow warm up. Insert CO tester probe in tailpipe. Connect a tachometer.

On vehicles without air pump, pinch off the supply line to reed valve. On vehicles with air pump, pinch off air injection supply line upstream of check valve.

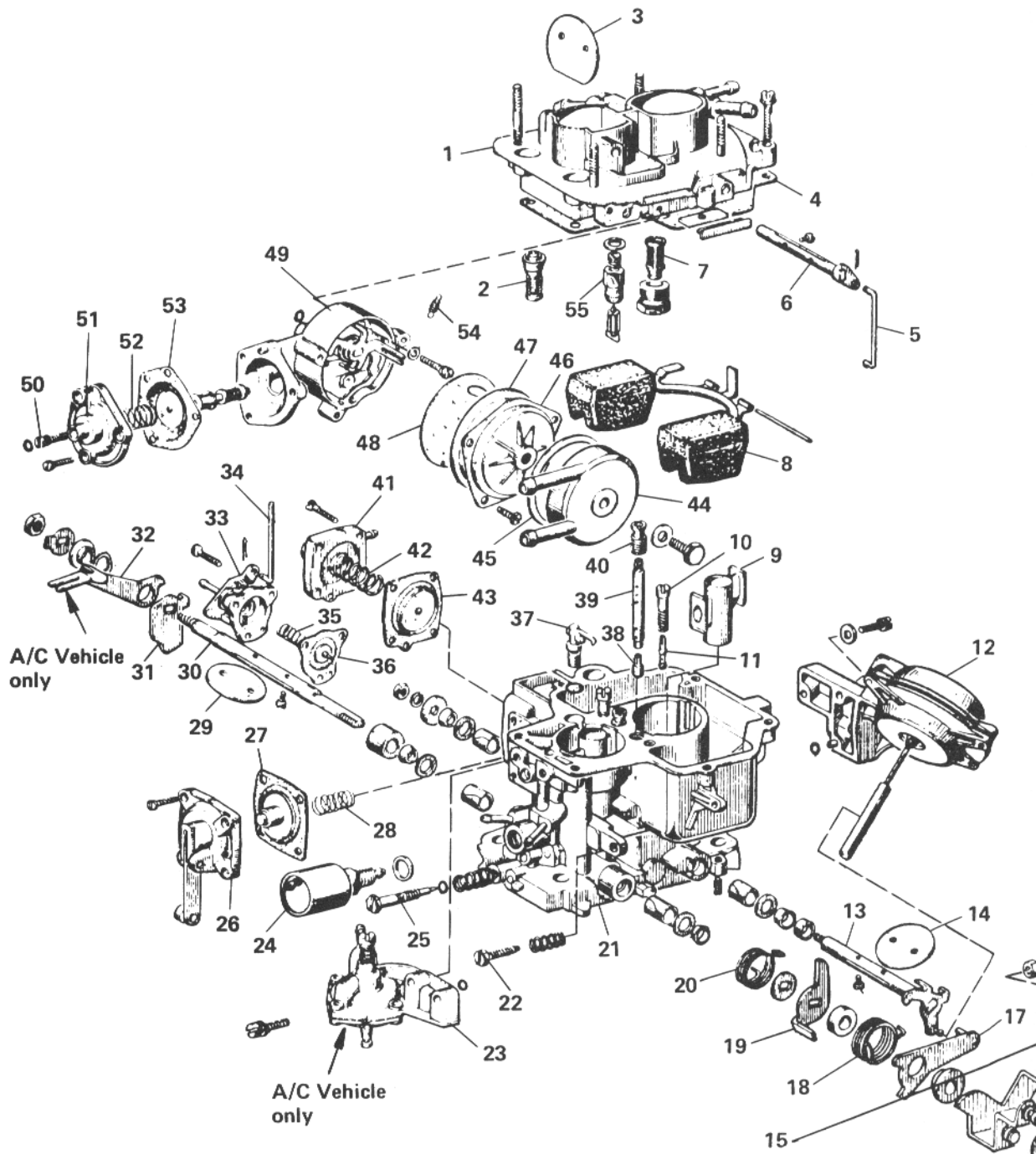
Adjust carburetor idle speed adjusting screw (1) to set engine speed to 800 to 900 rpm.

Adjust idle mixture adjusting screw (2) to set CO to 2.0%. Turn screw clockwise to decrease CO or counter-clockwise to increase CO.

Recheck idle speed and if necessary, repeat adjusting idle speed and mixture to obtain both the proper idle speed and CO reading. Shut engine off. Remove tool used to pinch off air injection hose or supply line.



- 1. Idle speed adjusting screw 2. Idle mixture adjusting screw



- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Carburetor cover 2. Breather valve 3. Choke plate 4. Gasket 5. Choke linkage 6. Choke plate shaft 7. Filter 8. Float assy 9. Center venturi 10. Idle jet housing 11. Idle jet 12. Secondary throttle vacuum diaphragm assy 13. Secondary throttle shaft 14. Secondary throttle plate 15. Throttle actuating lever assembly 16. Choke fast idle screw 17. Progressive throttle linkage 18. Return spring 19. Stop lever, Primary shaft 20. Return spring 21. Carburetor body assy 22. Idle speed screw 23. Fast idle diaphragm assy (A/C only) 24. Idle shut off solenoid 25. Idle mixture screw 26. Accelerator pump cover 27. Pump diaphragm 28. Diaphragm return spring | <ol style="list-style-type: none"> 29. Primary throttle plate 30. Primary throttle shaft 31. Accelerator pump actuating cam 32. Fast idle control lever (A/C only) 33. Power valve cover 34. Bowl vent valve rod 35. Power valve return spring 36. Power valve diaphragm 37. Accelerator pump jet 38. Main fuel jet 39. Main emulsion tube 40. Main air jet 41. Vacuum accelerator pump cover 42. Vacuum accelerator pump return spring 43. Vacuum accelerator pump diaphragm 44. Automatic choke hot water cover 45. Gasket 46. Automatic choke hot water backing plate 47. Bimetallic spring case 48. Gasket 49. Automatic choke assy 50. Choke unloader adjustment screw 51. Choke unloader cover 52. Choke unloader return spring 53. Choke unloader diaphragm 54. Fast idle cam return spring 55. Needle valve assy |
|---|---|



Specifications (mm)						
Carburetor Model	7/179	7/279	10/179	10/279	7/180	7/280
Primary throat	21	21	21	21	21	21
Secondary throat	22	22	22	22	22	22
Primary venturi	4.00	4.00	4.00	4.00	4.00	4.00
Secondary venturi	4.00	4.00	4.00	4.00	4.00	4.00
Main fuel jet (primary)	1.05	1.05	1.10	1.10	1.05	1.05
Main fuel jet (secondary)	1.10	1.10	1.05	1.05	1.05	1.05
Idle jet (primary)	0.50	0.50	0.50	0.50	0.50	0.50
Idle jet (secondary)	0.05	0.50	0.50	0.50	0.50	0.50
Accelerator pump jet	0.50	0.50	0.50	0.50	0.50	0.50
Air jet (primary)	2.50	2.50	2.40	2.40	2.30	2.30
Air jet (secondary)	1.75	1.75	1.70	1.70	1.80	1.80
Emulsion tube (primary)	F25	F25	F25	F25	F25	F25
Emulsion tube (secondary)	F30	F30	F30	F30	F30	F30
Needle valve	1.75	1.75	1.75	1.75	1.75	1.75