

Fairmont

TYPE C5 CARBURETOR (5 TO 8 H.P.)

In average service and after engine warms up the needle valve on C5 carburetors should be set from 1 to 1-1/4 turns open. This is a little more than that required for earlier JL and F types. Do not run with the mixture too "lean" as overheating and loss of power may result.

The type C5 carburetor has renewable seats for the air valve, check valve, needle valve, and float valve; a renewable threaded guide for the needle valve; and the check and air valves are identical. A few parts of the C5 also fit the type F4 carburetor, but most parts do not interchange. Needle valves for F4 or JL2 carburetors should not be used in the type C5 as damage might result. However, the assembly A1371 of float bowl with float, float valve, and strainer can be applied to type F4 and F6 carburetors. This C5 carburetor can be used on all 4 H.P. Fairmont engines, and also on the 5-8 H.P.

The check and air valve springs are of similar diameters but different lengths and tensions. Whenever springs are removed, be sure they are replaced in the same location and that the tension is not changed. When installing the float valve, be sure it is positioned as illustrated on page 2. Float levers on C5 and C8 carburetors are fastened to lower side of float, opposite to earlier Fairmont carburetors.

When the carburetor is given a general overhauling, it is recommended that all new gaskets be used, obtained under one symbol by specifying A1389 gasket set. Installations that call for connecting brass fuel lines direct to the carburetor require either F1709 straight or F1745 elbow connector to complete the application.

The small vent hole in body of carburetor should be kept open. If gasoline runs out of vent or constantly drips from carburetor, float valve is not seating properly. To remedy, take off and clean strainer bowl and drain carburetor, then replace parts. If leakage continues, shut off gasoline, remove float bowl, and inspect float valve, and hinge pin. Apply new parts if these are badly worn, also check float level.

With float lifted to its high position and float valve tight on the seat, top surface of float should be 3/8 to 7/16 of an inch below top rim of bowl. If the distance is less than this, renew float valve and seat.

The strainer bowl should be taken off and cleaned at least once a month, oftener in winter. Be sure the gasket is in good condition and correctly positioned when replacing bowl. Avoid the use of heavy wrenches and pliers when working on carburetors.

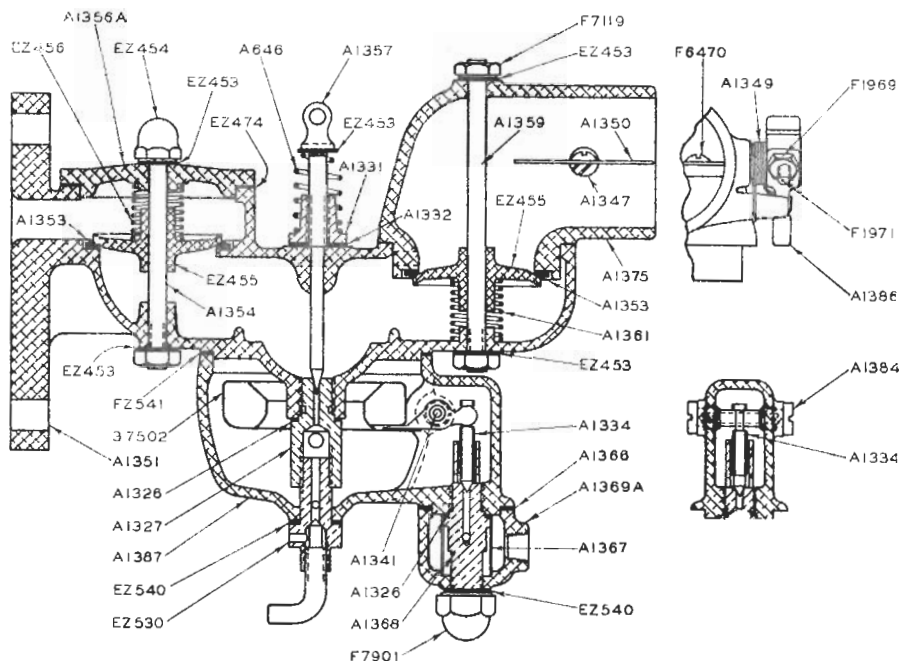
Parts are listed by description, symbol, and quantity in each assembly or group. When ordering parts be sure to state type of carburetor, and the description, symbol, and quantity of each part wanted.

FAIRMONT RAILWAY MOTORS, Inc.

FAIRMONT, MINNESOTA, U. S. A.

DISTRICT SALES OFFICES

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BEFORE ORDERING PARTS READ THE FOLLOWING

NOTE--It is recommended that the complete gasket set be ordered when overhauling carburetors. Installations where the brass fuel line is connected directly to the strainer bowl require the use of one of the connectors listed below. They are not furnished with the carburetors but must be ordered separately. See page 4 for valve seat tool.

If complete carburetors are applied to cars not having fuel strainers below the fuel tanks, it is advisable to thoroughly flush the fuel tank and system and also to install the glass bowl type of fuel strainer listed below. On inspection cars having relatively short fuel lines, the F7803 - 18" flexible fuel line can be used to connect fuel tank to carburetor. On other cars with longer fuel lines, cutting a few inches off each end of brass fuel line permits the installation of two M35062 - 7" flexible fuel lines to connect the brass fuel line to carburetor and to strainer on cars not so equipped. Use a brass street elbow between strainer and flexible line.

Gasket (carburetor to crankcase - included in gasket set) . . .	D-47D
Gasket Set (complete for C5 carburetor)	A1389
STRAIGHT CONNECTOR (1/4" brass fuel line)	F1709
ELBOW CONNECTOR (1/4" brass fuel line)	F1745
Compression Nut only	F3029
Compression Sleeve only	F3030
STRAINER WITH NIPPLE Complete	M34410
Nipple 1/8 x 3/4" brass	F1688
Glass Bowl (strainer)	F7876
Gasket (strainer bowl)	F7877
Screen (strainer)	F8692
Flexible Fuel Line - 18" (complete)	F7803
Flexible Fuel Line - 7" (with sleeve and nut)	M35062
Street Elbow (strainer to flexible line)	F6584

NOTE--Parts marked * also fit type F4 carburetors.

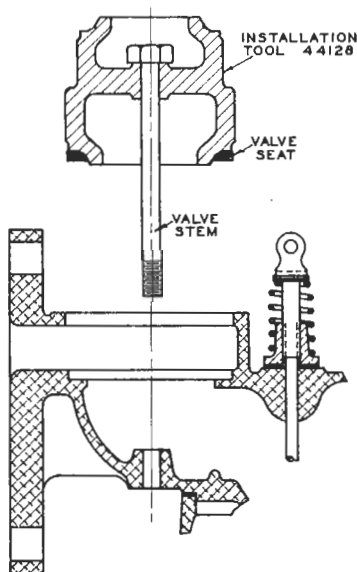
FAIRMONT C5 CARBURETOR Complete (knurled needle valve) . . .	44387	1
FAIRMONT C5 CARBURETOR Complete (with yoke needle valve) . .	A1318	1
CARBURETOR BODY Complete (with needle valve guide, needle valve seat, and check valve seat)	A1388	1
CARBURETOR BODY (with check valve seat)	A1351	1
Valve Seat (for either check or air valve)	A1353	1
Guide (needle valve)	A1331	1
Gasket (needle valve guide)	A1332	1
Cap Screw 1/4 x 1/2" (needle valve guide)	F7370	2
Seat (needle valve)	A1327	1
Gasket (needle valve seat)	A1326	1
Needle Valve (yoke type - length 3-1/4")	A1357	1
Needle Valve (knurled head)	44388	1
*Washer (or gasket - needle valve friction)	EZ453	2
*Lock Spring (under needle valve)	A646	1
*Check Valve (same as air valve)	EZ455	1
Check Valve Stem (with lower nut - length 2-11/16")	A1354	1
*Spring (check valve - 1-5/16" free length)	EZ456	1
Cover (check valve)	A1356A	1
Gasket (check valve cover)	EZ474	1
*Cap Nut (check valve stem upper)	EZ454	1
*Gasket (or washer - valve stem nuts)	EZ453	2
FLOAT BOWL Complete (with float and strainer)	A1371	1
FLOAT BOWL (with float valve seat)	A1387	1
Seat (float valve)	A1368	1
Gasket (float valve seat)	A1326	1
Float with Lever (metal - replaces A1336)	37502	1
Hinge Pin (float lever)	A1341	1
Bearing Screw (hinge pin)	A1384	2
Float Valve	A1334	1
Strainer Bowl only	A1369A	1
Screen (strainer)	A1367	1
Gasket (strainer bowl upper)	A1366	1
Cap Nut (strainer bowl)	F7901	1
Gasket (cap nut - strainer bowl lower)	EZ540	1
*Gasket (float bowl to carburetor body)	EZ541	1
*Drain Cock Complete (float bowl)	EZ530	1
*Gasket (drain cock)	EZ540	1
AIR VALVE CAGE (with choke but less air valve)	A1362	1
AIR VALVE CAGE (with valve seat)	A1375	1
Valve Seat (for either check or air valves)	A1353	1
Choke Shaft	A1347	1
Choke Disc	A1350	1
*Screw (choke disc - self-tapping)	F6470	2
CHOKE ARM (with clamp screw)	A1386	1
Machine Screw (choke arm clamp)	F1971	1
Hex Nut (clamp screw - use F1692 lockwasher)	F1969	1
*Spring (choke arm)	A1349	1
Air Valve Stem (with lower nut - length 3-3/4")	A1359	1
Air Valve (same as check valve)	EZ455	1
Spring (air valve - 1" free length)	A1361	1
Hex Nut (air valve stem upper)	F7119	1
Gasket (or washer - valve stem lower nut)	EZ453	1

NOTE ON CORK FLOAT--Assembly of cork float with lever A1336 is no longer available, and is replaced by metal float with lever 37502.

CARBURETOR SERVICE KIT 51141

For major carburetor repairs, all gaskets, valves, seats, springs and hinge pin can be obtained under one symbol by specifying 51141 C5 carburetor service kit.

VALVE SEAT INSTALLATION TOOL 44128



The large end of this tool is for C8 and the small end for C5 carburetors. Its use insures accurate installation of valve seats, especially for check valves which must be tight to prevent the loss of crankcase compression.

For check valve seats, slip the seat over the proper end of tool with the beveled side of seat against the tool as shown in the diagram.

Insert tool and seat into carburetor body through check valve cover opening.

The new seat can be pressed in place in a vice or a small press, using the check valve stem to align parts, being careful to have it square and also not to damage upper end of tool. Another way is to place check valve seat over proper end of tool as instructed above, and using check valve stem as a guide, place a block of wood over other end of tool and tap lightly into place. Keeping seat square by tapping around edge of tool.

Air valve seats are placed on the tool the same as check valve seats, and pressed or tapped to place in like manner.