



FUEL SYSTEM

The welded aluminum main tank is located directly behind the firewall (capacity 15 gallons). Fuel is gravity fed from tank to gascolator filter assembly and from gascolator to carburetor. A positive and accurate method for checking fuel supply is provided with a float type fuel gauge located directly on top of the fuel tank deck. The fuel shutoff valve is located on the engine control panel. A primer is furnished to aid in cold weather starting.

AUXILIARY FUEL TANK

As standard equipment on the Aeronca Chief, an 8 gallon auxiliary tank has been incorporated as part of the fuel system to provide greater cruising range. Fuel is gravity fed from the auxiliary to main tank through a copper line passing along the left side of the cabin structure. The auxiliary tank is located above and aft of seat and is provided with an overflow drain passing from the tank filler neck downward through the fuselage frame and extending below the bottom fuselage covering.

A fuel gauge located just above the baggage compartment lid provides a visual check of the auxiliary fuel supply.

GASCOLATOR FILTER ASSEMBLY

Located on the engine side of the firewall, the gascolator assembly affords a means of straining sediment and foreign matter from the fuel flow. The gascolator is located at the lowest point in the system, therefore, water is collected in the sediment bulb and care should be taken to check for its presence.

Caution: This check can be accomplished visually and should be a daily check. Operating in cold weather and storing in warm hanger with an unfilled tank, also operating in a climate where high humidity ratio is prevalent, are most probable causes for condensation and the presence of water in the fuel system.

Care should be taken to replace the bowl securely and re-safety. Gascolator gasket should not be used more than once before being replaced. When draining gascolator bowl, filter screen should be cleaned and checked for enlarged mesh or damage.

PRIMER

For cold weather starting, three slow movements of the primer pump as the propeller is being pulled through, will force fuel directly into the induction system assuring quick, positive starting.

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FUEL SYSTEM PARTS LIST

PART NUMBER	DESCRIPTION
1-239-3	LINE
1-2403	VALVE FUEL SHUTOFF
1-2512	SUPPORT
1-2561	FABRIC REINFORCEMENT
1-2583	WASHER
1-2592	VALVE LEVER
1-2593-2	CAP
1-2593-3	CAP
1-2624	RING – SEALER
1-2694-2	PRIMER LINE
1-2803	FITTING ROD
1-2822	WASHER
1-2868	NAME PLATE
1-520	GASCOLATOR ASSY
1-520-1	GASKET
1-520-3	BOWL
1-520-4	SUPPORT
1-520-5	CASTING
1-666-2	LINE
1-761	GASKET – GAUGE
1-780	NUT – FUEL GAUGE
1-781	GASKET
1-788	PRIMER
1/4-18	P.T. LOCKNUT
100	HD 3/8T VALVE
101B	1/4P x 1/4 TEE
110B	1/4 x 1/8 BUSHING
112B	1/4P x 1/4T NIPPLE
2-1013	FUEL SHUTOFF ROD
2-1024	NECK REINFORCEMENT
2-1028	FUEL GAUGE
2-761-1	STRAP
2-761-2	STRAP
2-761-3	STRAP
3-489	BOARD – MAIN TANK
3-513	BOARD
3-595	FUEL GAUGE ASSY
4-590	LINE
49F	5/16T x 1/4P ELBOW
50F	3/8T 1/4 ELBOW
68F	1/4P x 3/8T CONNECTOR
69F	3/8P x 1/4T ELBOW

PART NUMBER	DESCRIPTION
7-503-1	FELT
7-503-2	FELT
7-511	MAIN TANK
7-530-1	LINE
7-530-2	LINE
7-530-3	LINE
7-530-4	FELT
7-530-5	AUXILIARY TANK OVERFLOW LINE
7-531	AUXILIARY FUEL TANK
95L	3/8T x 1/4P TEE
A-520-2	SCREEN
AC745-1A	CLAMP
AC884-6-9	HOSE
AC945-4	WASHER
AN3-14A	BOLT
AN3-21A	BOLT
AN315-4	NUT
AN364-428	NUT
AN4-4	BOLT
AN515-8-6	SCREW
AN913-2	PLUG
AN960-916L	WASHER
AN960-A8L	WASHER
AN960-C416	WASHER
MS21044N3	NUT
MS24665-285	COTTER PIN