

## Description

The fuel system consists of fuel cells, engine driven fuel pumps, fuel injectors, control valves, and fuel pressure and flow gauges. Fuel is stored in four flexible fuel cells, two in each wing. The outboard fuel cells have a capacity of 40 gallons, and the inboard cells have a capacity of 83 gallons each, providing a total fuel capacity of 246 gallons.

The right and left wing fuel systems are independent of each other and are only interconnected when the crossfeed system is activated. Under normal operation fuel is routed from the fuel cells, through the selector valve and fuel filter. Fuel from the fuel filter travels through the emergency fuel pump, the firewall shutoff valve, and the engine driven fuel pump to the fuel injector and then into the cylinders.

## Fuel Pumps

Emergency fuel pumps are installed to provide fuel pressure in the event an engine driven pump fails. The emergency fuel pumps are also used under normal conditions for takeoff, landing, and priming the engines. It may also be necessary to turn on the emergency fuel pumps during climb or cruise to stabilize fuel pressure. The port and starboard emergency fuel pump switches are located on the overhead panel to the right of the fuel quantity gauges.

## Fuel Quantity Indicators



Two electric fuel quantity gauges are mounted in the overhead switch panel. Each fuel quantity gauge (port and starboard) indicates the quantity of fuel in the selected tank:

- Inboard** (Aux)
- Outboard** (Main)



## Fuel System

The fuel gauges are connected electrically to micro switches mounted in the fuel selector console. When a fuel tank is selected its corresponding micro switch is activated, completing the circuit between the fuel senders and the fuel quantity gauge.

Fuel flow and pressure are monitored by the dual fuel flow gauge and a dual fuel pressure gauge. The fuel flow gauge is mounted on the instrument panel above the radio stack.

Port and starboard fuel flow warning lights illuminate to warn the pilot of an impending fuel flow interruption. These lights are located on the annunciator panel mounted on the center of the glare shield.

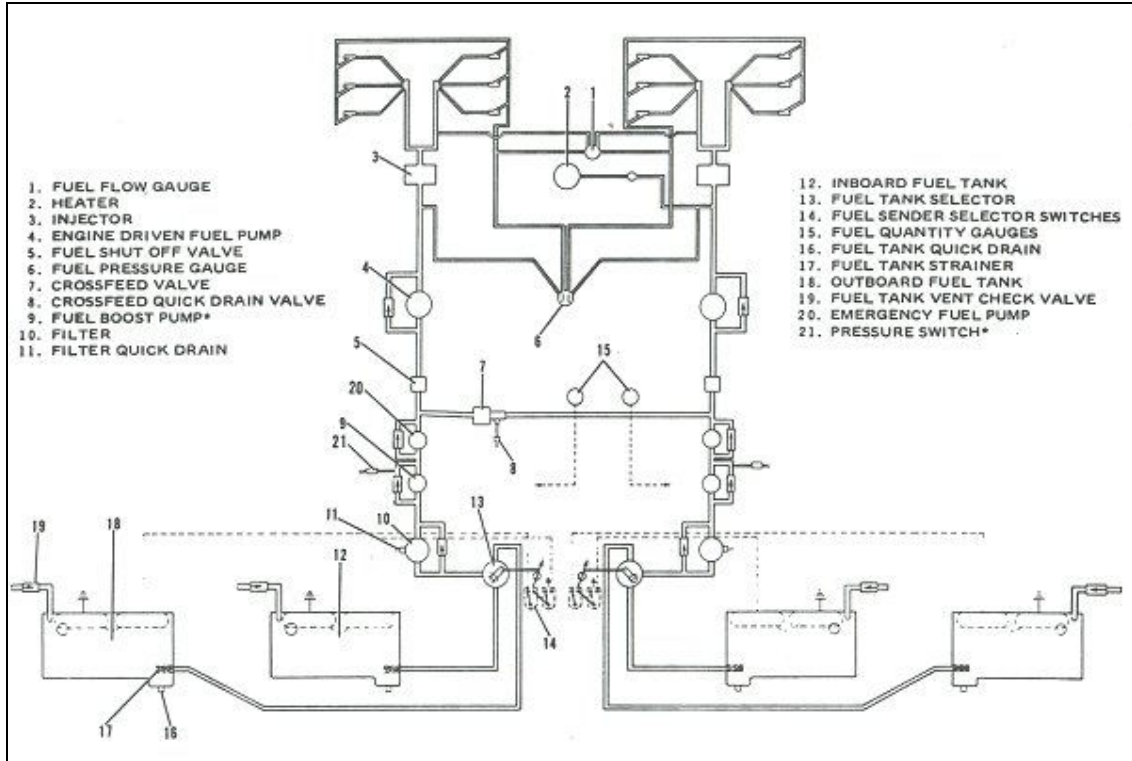
During normal operation each engine is supplied with fuel from its respective fuel supply. The fuel supply is controlled by the tank selector on the fuel selector console. For emergencies, fuel from one system can supply the opposite engine through the crossfeed system. The crossfeed valve is located on the center of the fuel selector console. Under normal conditions it should be in the OFF position.

### NOTE

**The crossfeed system is not intended for normal operation. When time crossfeed Valve is on, be certain the fuel selector valve on the tank not in use is off.**

Emergency firewall fuel shutoff valves are installed in both the port and starboard fuel systems. The valves are activated by controls on the left and right sides of the fuel selector console. The firewall shutoff valves are intended for emergency use only.

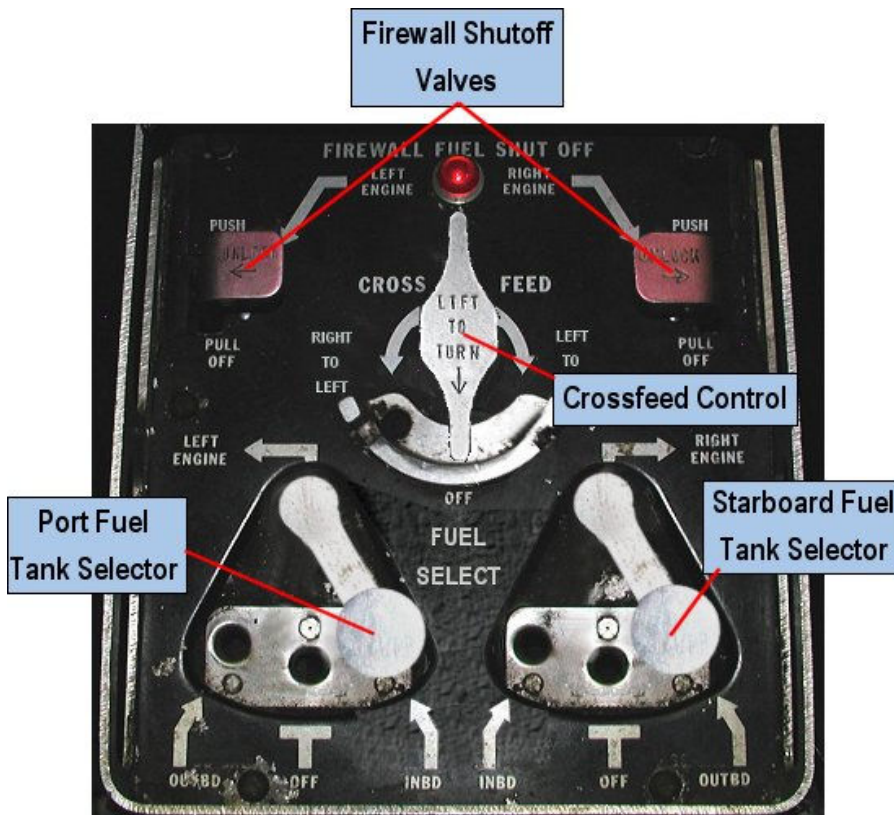
**FUEL SYSTEM SCHEMATIC**



**FUEL SELECTOR CONSOLE**



Access to the Fuel Selector Console is obtained via the illustrated icon on the main instrument panel.



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