

Auxiliary (Long Range) Fuel Tanks

DHC-8 100/200/300

Aircraft Applicability

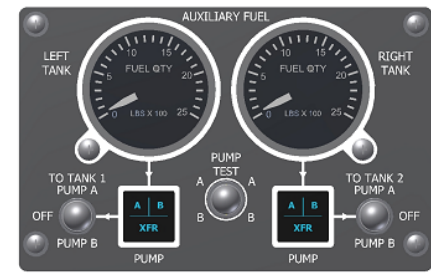
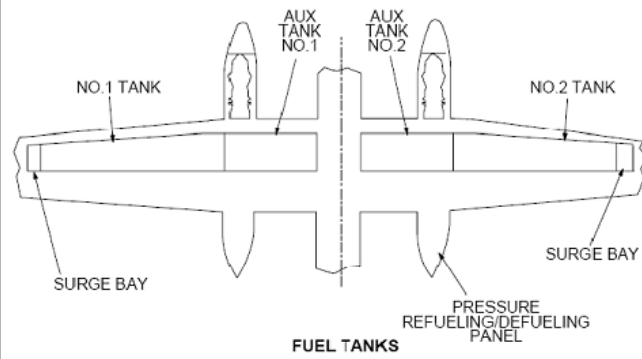
- DHC-8-100
- DHC-8-200
- DHC-8-300

Benefits

- Increases fuel capacity by 80%, providing additional capacity for long range and special mission operations
- Single point refuel/defuel is retained with addition of Long Range Fuel Tanks
- Integral wing tanks are supplemented by using the wing box area inboard of the nacelle
- Cockpit layout and functionality similar to OEM factory installation
- Simplifies ground handling logistics at intermediate stops

The Field Aerospace Auxiliary (Long Range) Fuel Tanks STC was designed specifically for retrofit installations into existing aircraft and to meet latest requirements of SFAR88.

Two (2) Long Range Fuel Tanks are installed inboard of the engine nacelles on both sides of the aircraft. Dual electric fuel pumps are used to transfer fuel, making for a simpler retrofit installation while achieving the same function and operational characteristics as the OEM factory installation.



The following table summarizes the fuel tank capacities and associated fuel weights with the Long Range Fuel Tanks installed:

DHC-8-200/300	Fuel Quantity USG	Fuel Quantity Liters	Fuel Weight Lbs	Fuel Weight Kg
Basic Tank No. 1	417.5	1580	2839	1288
Basic Tank No. 2	417.5	1580	2839	1288
Combined Tank No.1 & Tank No.2	835	3160	5678	2576
Auxiliary (Long Range) Tank No. 1	335.5	1270	2283	1035
Auxiliary (Long Range) Tank No. 2	335.5	1270	2283	1035
Combined Aux. Tank No.1 & Aux. Tank No.2	671	2540	4566	2070
Overall Fuel Capacity with Field Aviation Auxiliary Fuel Tank Modification	1506	5700	10244	4646

Complementary Modifications

- DHC-8-202 Max Gross Takeoff Weight 1000 LBS increase (TC STC No. SA05-8, FAA STC No. ST02083NY, EASA STC No. 10038517)

Certification Basis

- TC STC #SA11-64
- FAA STC #ST03382NY
- EASA STC #10038932