

✓ CHAPTER 10

FUEL TANK ASSEMBLY NEW IISL-SC

Section 1

Fuel Tank Assembly

Figure FT-1

2. Figure FT-1 ASSEMBLING FUEL TANK

c) The fuel tank (1) is supplied with fuel pick up and vent fittings installed. Clean out the tank prior to putting it in your aircraft.

d) The fuel tank is oriented such that the 45 degree cut angle is on the bottom in the rear. Place the upper (front) tank mount tube (2) on the upper front of the fuel tank (1). Confirm that the hole to hole dimension on the brass mounting insert is 10" (ten inches) If the spacing is slightly off, file out the holes on the tank mount tube to fit (The fuel tanks shrink at slightly different rates the during manufacturing process, hence the variation). Attach the upper tank mount tube (2) to the fuel tank (1) TEMPORARILY with bolts (3) and washers (4).

TEMPORARILY attach the lower (rear) tank mount tube (5) on the lower rear of the fuel tank (1). Confirm that the hole to hole dimension on the brass mounting inserts is 12" (twelve inches). Attach the lower tank mount tube (5) to fuel tank (1) temporarily with bolts (3) and washers (4).

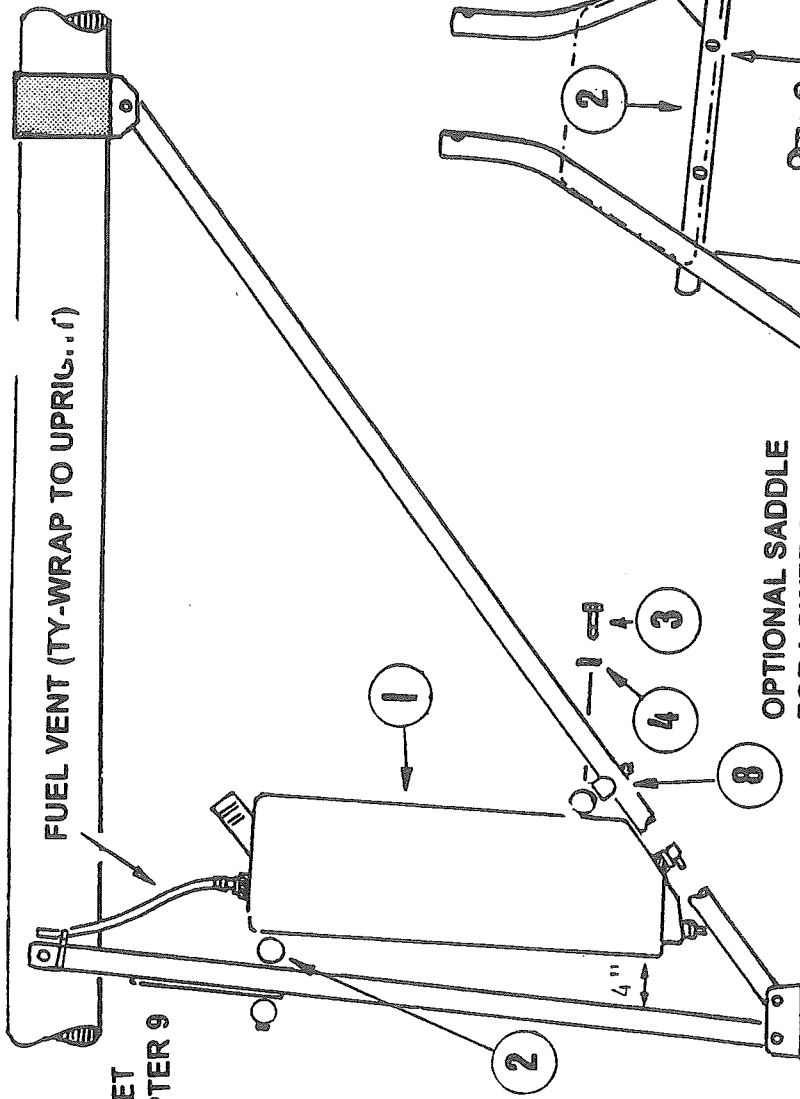
c) Bolt the tank/tank tube assembly on to the center uprights using the previously inserted bolts through upper seat support tubes as shown in Fig FT-1. The tank should freely pivot backwards approximately 4 inches from the center upright to the bottom of the tank, without buckling the tank at the attachment on the front. If needed, file the holes slightly to allow the tank to lean back the required 4 inches. This is done to give clearance to your back while in the seat.

d) Mark the holes that attach the lower (rear) tank mount tube to the rear upright using the following procedure. Find the absolute top of the rear upright tubes by sliding a broom handle (or equivalent) up and down both uprights at the same time in the approximate location of the holes. Remember that the bottom of the tank is to be positioned back (4") as specified above. Drill out the attachment holes using a 3/16" drill. Temporarily attach the lower mount tube to the rear uprights using bolts (6) washers (7) and nuts (9). If required, place standoff optional *saddles (8) between the tank tube and the rear uprights.

f) After you have inspected the attachment of the tank, go back and secure the tank bolts with service removable locktite. For the IISL, use the lever type fuel cap (11) provided. Note that the lever unwinds the plunger on the cap. Make certain to rewind the lever to keep it tight after insertion during the refueling process. Please refer to Chapter 17 section 6 for the remainder of the fuel system installation.

✓ Chapter 10
 Section 1
 Fuel Tank Parts List IISL-SC
 Figure FT-1

INDEX#	PART #	QTY	DESCRIPTION
1.	PS-61A	1	10 GALLON FUEL TANK
2.	PS-276	1	UPPER TANK MOUNT TUBE
3.	AN4-14A	4	1/4" BOLT
4.	AN960-416L	4	1/4" THIN WASHER
5.	PS-277	1	LOWER TANK MOUNT TUBE
6.	AN3-24A	2	3/16" BOLT
7.	AN960-10	4	3/16" WASHER
8.	SO4-94	2	STANDOFF SADDLE
9.	AN365-1032	2	3/16" LOCKNUT
10.	PS-296	1	SUMP DRAIN VALVE
11.	PS-157	1	SNAP TITE CAP
			2.



BULKHEAD GUSSET PLATE, SEE CHAPTER 9

UPPER SEAT SUPPORT TUBE SEE CHAPTER 9 SECTION 1

FUEL VENT (TY-WRAP TO UPRIGHT)

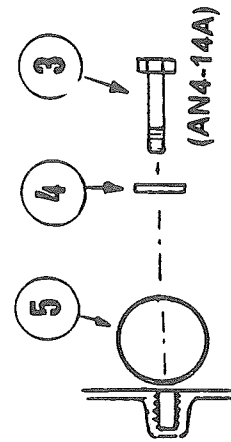
FUEL CAP FOR IISL-SC

BULKHEAD GUSSET PLATE & UPPER SEAT SUPPORT TUBE NOT SHOWN

OPTIONAL SADDLE FOR LOWER TANK TUBE IF REQ.

FUEL PICK UP FITTING

DETAIL FOR TANK TUBE-TANK ATTACHMENT



THREADED INSERT

ATTACHING THE 10 GALLON FUEL TANK

FT-1

