



**AT-6 TEXAN, SNJ-7 & T-6G Aircraft
Replacement Fuel Selector Valve**

Component Installation Manual

26-60-13

CJ Aviation
COMPONENT INSTALLATION MANUAL
FS30-T6CJ

Original Issue, Dated October 16, 2012

HIGHLIGHTS

The pages which have been added or revised are outlined below together with the highlights of the revision. Replace existing copies of the manual with this completely revised edition.

PAGE NO.	DESCRIPTION OF CHANGE	EFFECTIVITY
All Pages	Original Issue	All

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Replacement Fuel Selector Valve

Component Installation Manual

This manual includes coverage of the following part number

PART NUMBER FS30-T6CJ

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RECORD OF REVISIONS

This page provides a record of manual revisions. Whenever you receive revision or update pages, replace the old pages with the new and log the information in the following table.

Page Number Removed	Issue Date	Insertion Date	By
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When a Service Bulletin is received for this assembly, perform the instructions given, log it into the Service Bulletin List given below, and insert the Service Bulletin into this section to maintain a historical record.

NOTE: Alert Service Bulletins are produced on blue colored paper with the heading ALERT. When an ALERT Service Bulletin is received, take immediate action.

Service Bulletin Number	Original Issue Date	Revision Number and Date	Date of Incorporation into Manual
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LIST OF EFFECTIVE PAGES

SUBJECT	PAGE	DATE
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	T-2	10/16/2012
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1. Scope

- A. This Component Installation Manual (CIM) contains installation instructions for installation of the CJ Aviation Replacement Fuel Selector, part number FS30-T6CJ.

2. Product Support Services

- A. Repair and overhaul services, and other product support services are available from CJ Aviation.

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3. Usage Guide

- A. This CMM is written to ATA Specification 100. Refer to the Table of Contents (TOC) to find the necessary installation procedures or other data when required.

DESCRIPTION AND OPERATION describes the purpose, primary subassemblies, and technical properties of the component.

INSPECTION/CHECK contains procedures to check parts for damage and wear.

CLEANING contains cleaning procedures.

STORAGE provides packaging and storage procedures.

B. WARNINGS, CAUTIONS and NOTES

- (1) WARNINGS are provided before potentially dangerous procedures, materials, methods and processes which must be followed precisely to avoid injury.
- (2) CAUTIONS are provided before procedures, materials, methods and processes which must be followed precisely to avoid equipment damage.
- (3) NOTES are provided after applicable procedural steps, when necessary, to highlight or clarify information.

4. Standard Procedures

- A. Standard tools and materials that may be required during the installation of the Replacement Fuel Selector covered in this manual are listed in the original aircraft Standard Shop Practices manual.

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5. Advisories

WARNING: SERVICE PERSONNEL ARE TO OBEY STANDARD SAFETY PRECAUTIONS, SUCH AS WEARING SAFETY GLASSES, TO PREVENT PERSONAL INJURY WHILE INSTALLING OR DOING MAINTENANCE ON THIS COMPONENT.

6. Revision Service

- A. Revised pages will be issued when necessary to correct errors or to add new configurations.
- B. The revised part of the page will be identified by a change bar or capital R in the left margin adjacent to the changed area.
- C. A change bar in the left-hand margin opposite the chapter/section/subject, page numbers and date, indicates that the text was unchanged but the material was relocated to a different page. This change bar location is not used if there is already a change bar to indicate a change on the page.

7. Abbreviations

- A. When applicable, the following abbreviations, acronyms, and symbols are used. Additional abbreviations, ac abbreviations, acronyms, and symbols may be defined within the manual contents. Standard terms are not listed.

ADH	Adhesive
ALT	Alternate
AN	Air Force-Navy Aeronautical Standard
AR	As Required
Assy	Assembly
ATA	Air Transport Association
ATLAS	Abbreviated Test Language for All Systems
CAGE	Commercial and Government Entity
CMM	Component Maintenance Manual
CONT	Continued
CPD	Component Procurement Document
CTR	Center
EFF	Effectivity
Fig.	Figure
HD	Head
I/O	Input/Output
ID	Inside Diameter
IN	Inch
Intro	Introduction
IPL	Illustrated Part List

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LEP	List of Effective Pages
LRU	Line Replaceable Unit
MNT	Mount
MS	Military Standard
NAS	National Aerospace Standards
NHA	Next Higher Assembly
NO.	Number
OD	Outside Diameter
OPT	Optional
P/N	Part Number
PL	Places
POS	Position
PROGM	Program
R	Revision
REF	Refer to
REPLSD	Replaced
REPLS	Replaces
REV	Revision
RF	Reference
RR	Record of Revisions
SB	Service Bulletin
SCD	Source Control Drawing
SEMS	Self-Engaging Machine Screw
SUPSD	Superseded
SUPSDS	Supersedes
TBD	To Be Determined
THK	Thick
TOC	Table Of Contents
TR	Temporary Revision
UUT	Unit Under Test
V	Vendor
VID	Vendor Item Drawing
W	Width

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1. Operation

- A. The overall operation of the CJ Aviation Replacement Fuel Selector is the same as the current OEM Fuel Selector. The objective of the Fuel Selector is the same, to allow selection of engine fuel from specific fuel tanks.

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1. General

A. This section contains Instructions for the installation of the Fuel Selector Valve.

1. Start by removing the cover panel on the aircraft to reveal the current fuel valve. Figure 1, depicts the location on the aircraft where the valve resides. This cover is over the aileron pulleys that direct the cables to the torque tube.

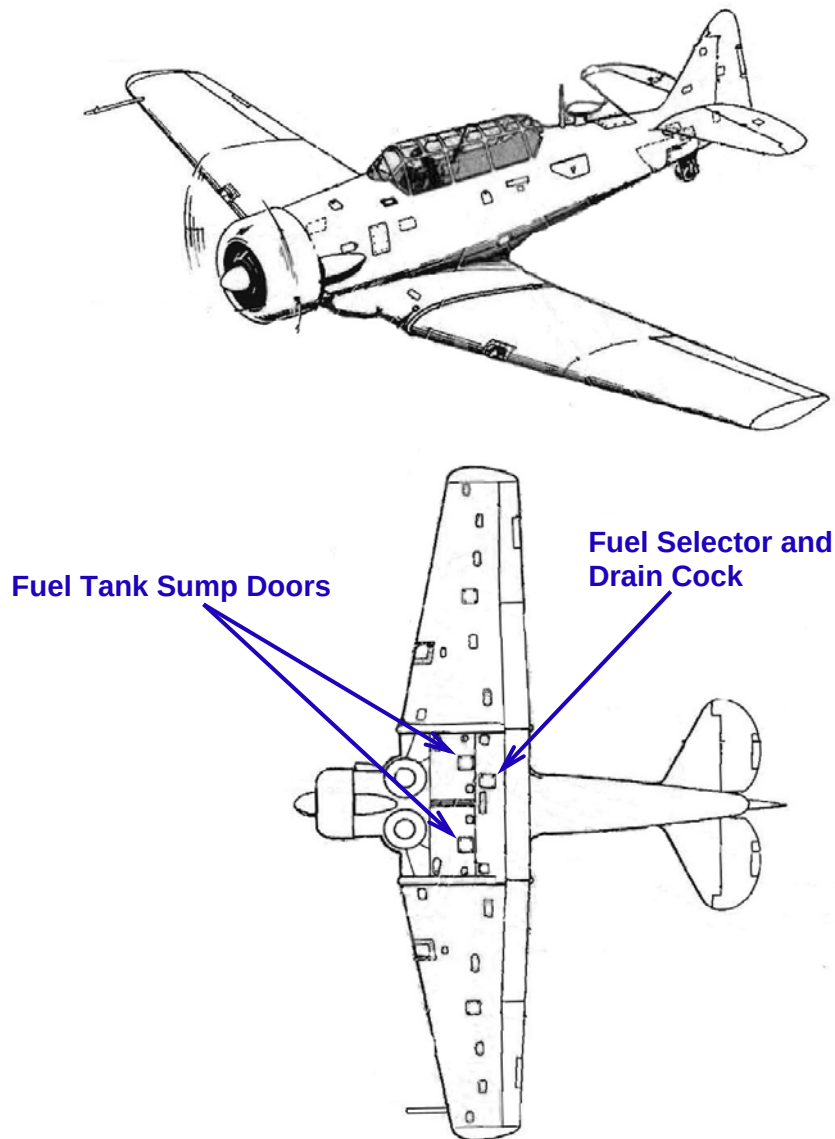


Figure 1 – Valve Access Location

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2. Drain all fuel from the aircraft. This can be accomplished by draining both fuel sumps with the drain valves on the bottom of the fuel valve fitting.
3. Remove fuel lines from fuel valve. Right tank fuel line can be accessed through access hole previously removed right of fuel valve, See Figure 2

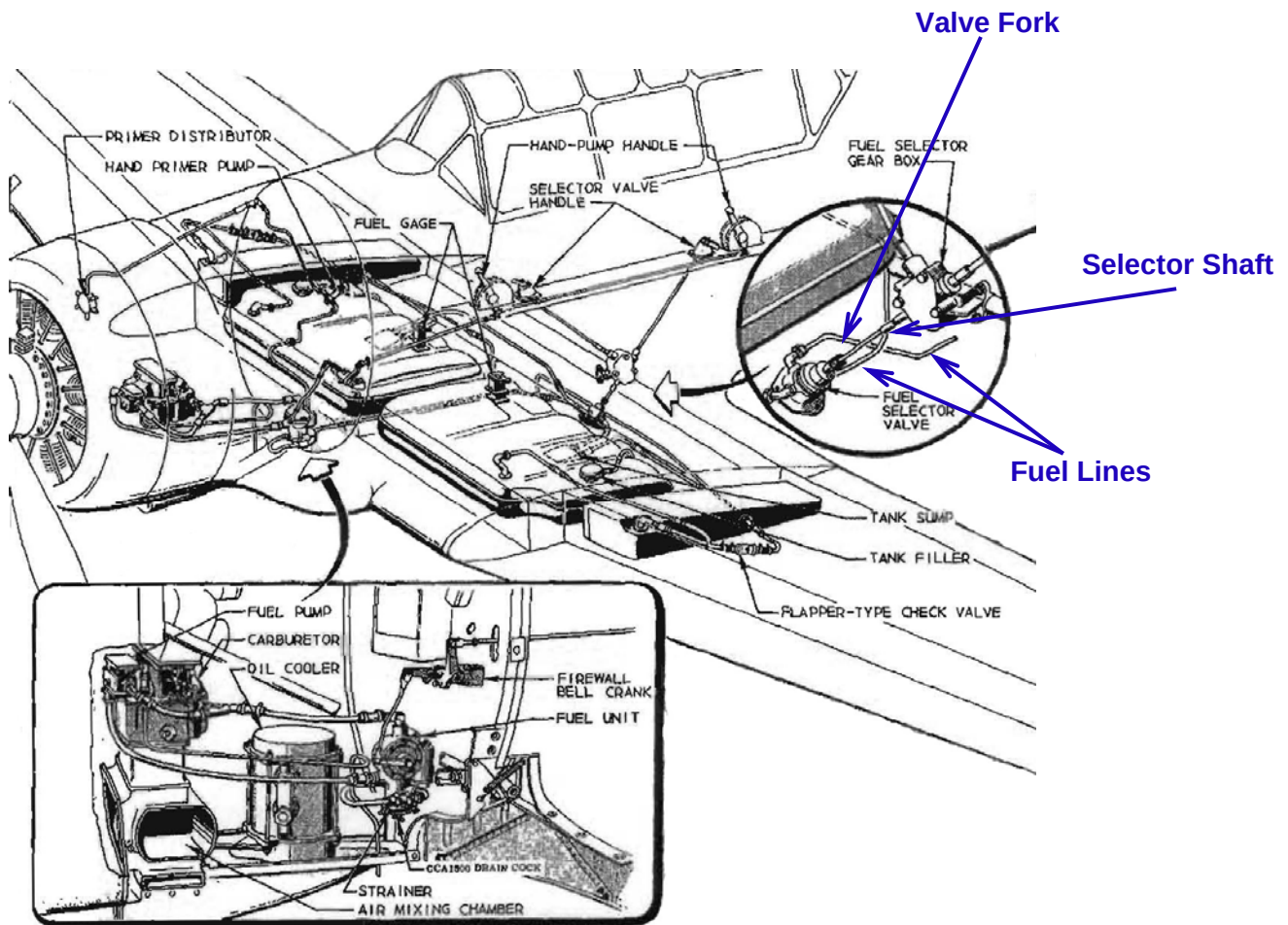


Figure 2 – Installed Valve Location

4. Remove both cotter pins in the end of the fuel valve fork.
5. Remove the hardware mounting holding the fuel valve mounting bracket, from the aircraft.
6. Remove valve and mounting bracket from the aircraft.
7. On the bench, remove the mounting bracket from the fuel valve.
Note: Fittings may need to be removed to complete this task.

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8. Reinstall the fuel valve fittings on the CJ Aviation Replacement Fuel Selector Valve. Special care should be taken to assure that the fittings are installed in the proper port on the Replacement Fuel Selector Valve and the fittings are clocked in the respective angles.
9. Reinstall the valve mounting bracket to the Replacement Fuel Selector Valve. The step may need to be incorporated with Step 8, depending on the type of fittings installed on the Fuel Selector Valve.

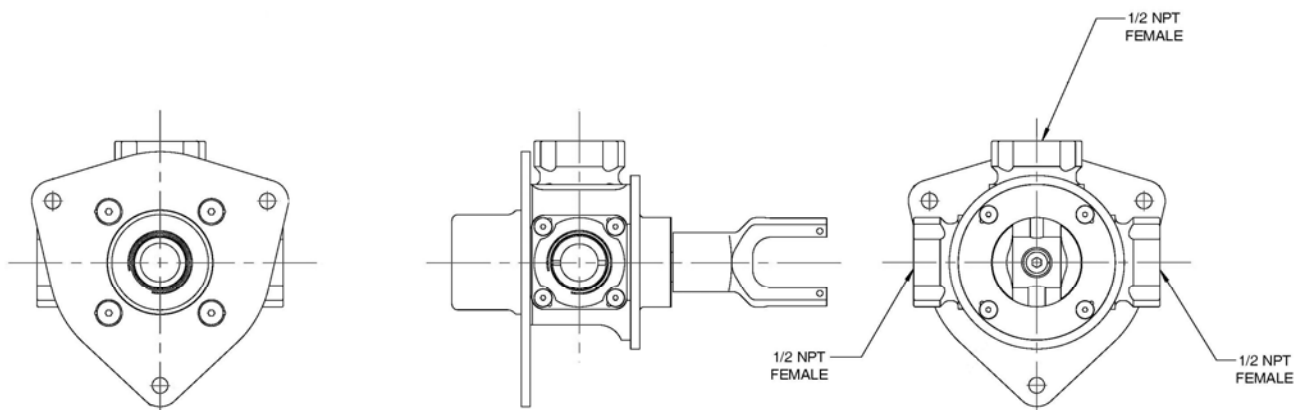


Figure 3 – CJ Aviation Replacement Fuel Selector Valve

10. In the cockpit, set the fuel selector indicator to a specific fuel tank location and note that location. Turn the Replacement Fuel Selector Valve to open to the corresponding port noted at the beginning of the step.
Note: At this time check the fuel valve selector shaft, see Figure 2, coming down from the cockpit to turn the selector valve. One (1) tab on the end of the shaft is wider than the opposite side. Select the correct Fork supplied with the CJ Aviation Replacement Fuel Selector Valve to match the fork required.

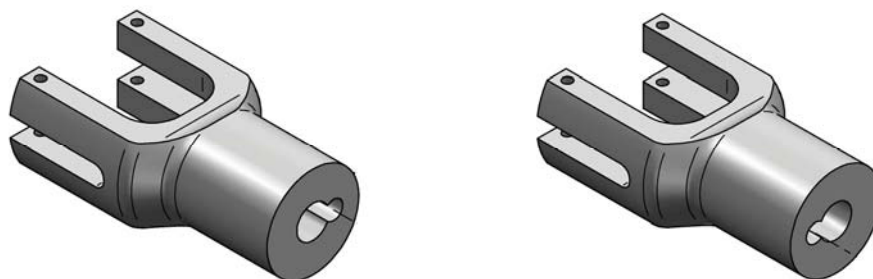


Figure 4 – CJ Aviation Supplied Fork(s)

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11. Install the CJ Aviation Replacement Fuel Selector Valve in the aircraft. Take special care to ensure that the Replacement Fuel Selector Valve is installed in the aircraft using the mounting hardware removed in Step 5.
12. Install new cotter pins in the end of the fuel valve Fork.
13. Fill the fuel tanks and check Replacement Fuel Selector Valve and fuel lines for leaks and valve for proper operation. If leaks are detected review all the above steps and verify that all connection(s) are properly torqued tight.
14. As a final on ground check: Start the aircraft and check the Replacement Fuel Selector Valve for smooth operation. Fuel pressure will drop to zero (0) when selecting "Off" while the engine is in operation. It is also important to check that fuel does not drain from the Replacement Fuel Sector Valve low point drain when the valve is selected to the "Off" position. Fuel should drain when either fuel tank is selected.

2. Fuel System Diagram

- A. The reference diagram shown in Figure 5 depicts the fuel system typical for this aircraft.

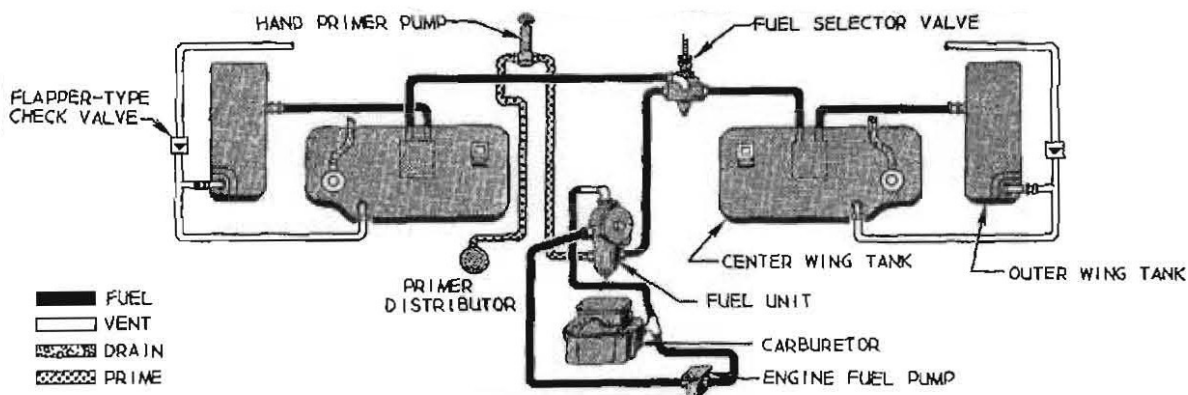


Figure 5 – Typical Fuel System Diagram (Reference)