

OSBORNE TANK & SUPPLY  
FORMERLY BRITAIN INDUSTRIES

WING TIP TANK INSTALLATION INSTRUCTIONS 11989

BEECH MODELS S35, V35, V35A, 35-C33A, E33A, V35B, F33A

REVISION LOG

INSTALLATION INSTRUCTIONS

| <u>PAGE NO.</u> | <u>REVISION</u> |
|-----------------|-----------------|
| 1               | C               |
| 2               | B               |
| 3               | C               |
| 4               | A               |
| 5               | A               |
| 6               | A               |
| 7               | A               |

DRAWINGS

| <u>DRAWING NO.</u> | <u>REVISION</u> |
|--------------------|-----------------|
| 4077, Sheet 1      | A               |
| 4077, Sheet 2      | None            |
| 4077, Sheet 3      | None            |
| 4077, Sheet 4      | None            |
| 4077, Sheet 5      | None            |
| 4077, Sheet 6      | None            |
| 4077, Sheet 7      | None            |
| 4077, Sheet 8      | A               |

APPROVED:

H. S. Osborne  
H. S. Osborne

Revision: C

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Revision: B

## 1. INTRODUCTION

- 1.1 The following Installation instructions cover the installation of the Osborne Wing Tip Tank on Beech S35, V35, V35A, 35-C33A, V35B E33A and F33A. All phases of this installation may be accomplished by a qualified A & P mechanic. This Installation Manual contains all specific data and drawings to complete the installation. Read this manual thoroughly before beginning installation.

## 2. GENERAL NOTES

- 2.1 All fuel line tubing is to be purged with dry air before connections are made.
- 2.2 When bending tubing, make certain that radii are adequate to exclude kinks or cracks in the fuel line.
- 2.3 Use accepted A & P practices when routing electrical wiring. Make certain that the wires are tied off so as to exclude chafing, and that all connections are covered with spaghetti provided.
- 2.4 When routing the fuel lines make certain that no low spots occur.
- 2.5 Carefully examine all fittings under pressure for possible leaks.

## 3. SPECIFICATIONS

### 3.1 General

Type: 20 Gallon Wing Tip Tanks with associated tubing and electrical hardware.

3.2 Weight & Balance: 24 Lbs. at fuselage station 90.0" aft of datum.

3.3 Approval Basis: S. T. C. SA4-1629

## 4. PRELIMINARY PROCEDURE

- 4.1 The following steps must be made before installation of the tip tanks and associated plumbing is begun.
  - A. Remove existing seats and panels to gain access to those areas shown on the included drawings.
  - B. Remove both wing tips. Disconnect navigation light wires at existing splice.
  - C. Drain fuel from main tanks.

## 5. FUEL SELECTOR VALVE INSTALLATION

- 5.1 Remove the existing fuel selector valve and install valve assy. part # 55034 as shown on Dwg. 4077 Sheet 1. Re-plumb the existing fuel lines as shown. Install fuel lines part # 55035-5, 55035-3, and 55035-4 as shown on Drawing 4077, Sheet 1.

## 6. SOLENOID VALVE INSTALLATION

- 6.1 Install solenoid valve assy. part # 55028 as shown on Dwg. 4077, Sheet 2. Secure the aft ends of fuel lines part # 55035-3 and 55035-4 to the tee's as shown.

## 7. FUEL LINE INSTALLATION

- 7.1 Install fuel line assy's., part # 55035-1 and 55035-2 as shown on Dwg. 4077, sheet 2, 3, and 4. Secure as shown with hardware provided.
- 7.2 Before attempting to install spiders, have tubing completely in place, as straight and free of bends as possible. Run the transmitter wire with initial tube installation, then thread through each of the spiders as they are installed.

Secure tubing at the inboard end so that it will not be pulled back out when removing larger push tube.

For a pusher tube, a light weight aluminum tube of approximately  $\frac{3}{8}$ " ( $\frac{1}{2}$ " to  $\frac{3}{4}$ " OK) diameter is best as it is possible to feel each leg of each spider as it pops in place. Ordinary water pipe will do if care is observed to not push past the desired hole.

NOTE: The holes for  $\frac{3}{8}$ " tube are not centered in the spiders. Proper rotation of spider will allow the tube to be routed from the large lightening hole, to the rib with small holes one above the other, without a low spot. Along with the dihedral, this will allow a downhill run from the tip to the selector valve.

The spiders will hold the line secure. After extreme deformity (I. E. pushing large spider through small end rib hole), help it back to original shape, or let it set long enough to return before putting in place in a large hole.

- 7.3 Using raw stock provided, fabricate the fuel lines required to route from the wing tip inboard to the wheel well and secure as shown on Dwg. 4077, sheet 5. Install flex hose assemblies part # 55037 on the outboard end of these fuel lines as shown on Dwg. 4077, sheet 6. CAUTION: Bead the outboard end of the tubing before securing the hose assemblies. If a beading tool is not available, secure with two clamps instead of one.
- 7.4 Fabricate and install fuel line assy. part # 55035-6 behind the spar and into the right-hand wheel well as shown on Dwg. 4077, sheet 4. Secure to fuel lines with hardware provided.

## 8. TANK INSTALLATION

- 8.1 Level the aircraft on its lateral axis and block so that it will not move. Establish the aircraft centerline on the floor by dropping plumb bobs from the direct center of the nose and the tail.

## 8. TANK INSTALLATION CONTINUED

- 8.2 Draw a chord-wise line on the upper and lower surfaces of the wing exactly two inches inboard from and parallel to the center line of the holes previously used for attachment of the wing tip. This includes the holes through the rear rib flanges and the holes through the forward rib flanges.
- 8.3 Draw a line laterally through the center of each mounting hole inboard perpendicularly intersecting the chord-wise line drawn in paragraph 8.2. These lines will be used to locate the attachment holes on the tip tank mounting flange after the tank is lined up.
- 8.4 Place the tip tanks on the wings and align in the following manner: Drop plumb lines from the forward and aft tips of the tank. Measure perpendicularly from the aircraft centerline established in paragraph 8.1, to the plumb bobs attached to the wing tip tanks. These measurements must be equal to insure proper location of the tank in relation to the line of flight. The vertical axis should be  $90^{\circ}$  to the horizon and may be determined with the plumb bobs which are attached to the tank tips.
- 8.5 When the tanks are properly aligned, transfer a line chord-wise, onto the mounting flange of the tank exactly two inches outboard from the chord-wise line drawn on the skin of the wing as detailed in paragraph 8.2.
- 8.6 Transfer the lateral lines, which establish the center of each mounting hole, back onto the flange of the tank. The intersection of the lateral lines and the chord-wise line drawn on the flange, will locate the holes required for mounting the tank. **NOTE:** It is recommended that a # 40 pilot hole be drilled through the flange to verify the hole locations. Finished holes are to be # 12, (.182 Diameter).
- 8.7 Install the position lights provided in the detent on the side of the tip tank as shown on Drawing 4077 Sheet 6. Secure with hardware provided.
- Connect the position light leads with quick disconnects and the fuel quantity transmitter leads. Cover with vinyl provided. Attach 55037 fuel line to the fuel outlet bib of the tip tank. Secure with clamp provided. See Drawing 4077, sheet 6.
- Place the wing tip tank on the wing and install with AN525-832-R8.

## 9. FUEL GAGE AND CROSSFEED SWITCH INSTALLATION

- 9.1 Install the fuel quantity gage, selector switch and crossfeed switch as shown on Dwg. 4077, Sheet 7 and 8. Install placards, part # 55036 and 55036-1 as shown on drawing 4077, sheet 7.

## 10. WIRING

- 10.1 Complete the wiring as shown schematically on Dwg. 4077, Sheet 8. Use hardware provided for all connections.
- 10.2 When wiring is completed per wiring schematic, the following wiring tests should be accomplished:
- A. Engage aircraft master switch
  - B. Verify proper fuel quantity gage phasing by selecting left or right tip and moving the transmitter float in that tank.

## 10. WIRING CONTINUED

- C. Verify that the solenoid valve is energized only when the crossfeed switch is in the "Open position.

## 11. RETURNING THE AIRCRAFT TO SERVICE

- 11.1 Fill the tanks and run a complete leak check of the entire fuel system. It will be necessary to operate the engine to verify proper engine fuel return operation.
- 11.2 Re-install upholstery removed for this installation. The front spar cover will require notching to clear tip tank fuel lines.
- 11.3 Upon completing of the tip tank installation the aircraft must be test flown by an appropriately rated pilot, (with at least a private pilot certificate) and the results of this test flight must be recorded in the aircraft records, (Ref: FAR part 91.167 (A) ).
- 11.4. Fill out form FAA-337 and enter weight and balance data in aircraft papers. Return aircraft to service as a normal category aircraft.

## 12. FUEL MANAGEMENT

- 12.1 Use fuel from the "Left Main" tank until at least ten (10) gallons have been used. Fuel from the tip tanks may then be used in level flight only.
- 12.2 To use fuel from the tip tanks, turn the selector to either the left-hand or right-hand tip position. The tip tank selected will feed to the engine when the tip crossfeed switch is in the "Off" position. When the tip crossfeed switch is in the "open" position and the selector in either tip position, both tips will feed simultaneously to the engine.

### CAUTION

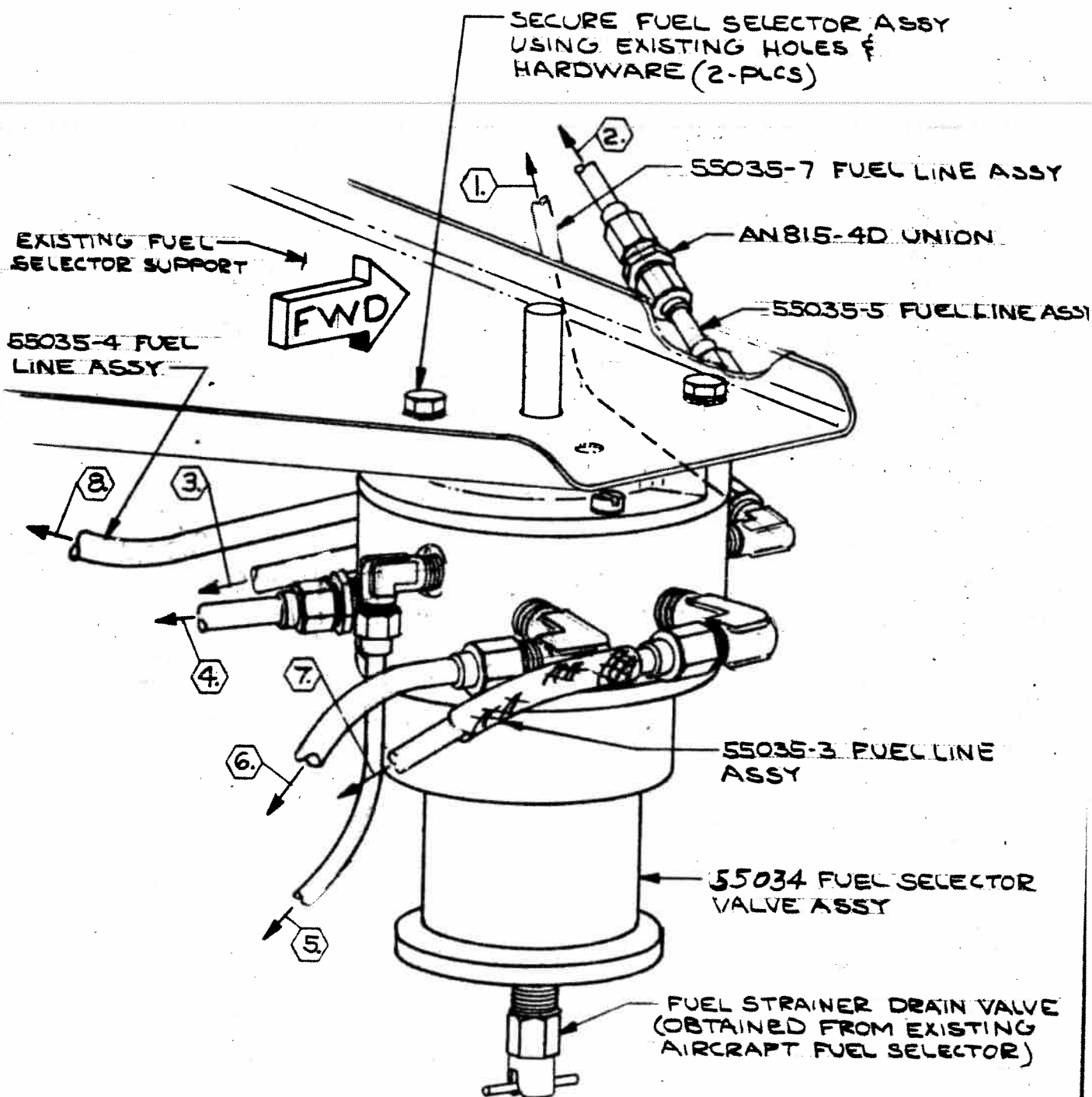
The tip crossfeed switch must be in the "OFF" position except when actual tip fuel crossfeed is being used. Re-check the "Left Main" fuel quantity periodically and return to the "Left Main" selection any time its quantity is above  $\frac{3}{4}$  full. The engine return line feeds excess tip fuel back into the "Left Main" tank.

- 12.3 Normal tip tank fuel usage is accomplished with the tip crossfeed switch in the "OPEN" position. However, if asymmetrical fuel loading occurs, place the crossfeed switch in the "OFF" position and select the "HEAVY" tip tank until the load is symmetrical. Return the crossfeed switch to the "OPEN" position.
- 12.4 When tip tank fuel has been used, return the selector to a "Main Tank" position. If the tip tank lines have been run completely dry in flight, air may be trapped in the line when tip tanks are subsequently filled. This air pocket in the line may prevent feeding of fuel from the tip tanks. To avoid this condition, operate the power plant from each wing tip tank separately until steady fuel flow is assured during ground run-up prior to flight. Use engine boost pump (low boost on turbo charged engines) if required during fuel switch-over.

Oxborne Tank & Supply  
Star Rte. Box 12  
Oro Grande, Calif. 92368

# FUEL SELECTOR VALVE INSTALLATION

4077 SH 1  
OF 8 A  
DRAWING NUMBER



**NOTE:** FUEL LINES ② THRU ⑥ WILL REQUIRE SOME REFORMING, OF THESE ② AND ⑤ HAVE TO BE SHORTENED & RE FLARED

- |                                                            |                                                                   |
|------------------------------------------------------------|-------------------------------------------------------------------|
| ① 55035-7 FUEL LINE ASSY- TO LEFT MAIN RETURN LINE         | ⑤ EXISTING - RETURN TO RIGHT MAIN FUEL TANK (1/4 O.D. TUBING REF) |
| ② EXISTING- FUEL RETURN FROM ENGINE (1/4 O.D. TUBING REF)  | ⑥ EXISTING- TO RIGHT MAIN FUEL TANK 3/8 O.D. TUBING (REF)         |
| ③ EXISTING- TO BOOST PUMP AND ENGINE (3/8 O.D. TUBING REF) | ⑦ 55035-3 FUEL LINE ASSY- TO SOLENOID VALVE & RIGHT TIP TANK      |
| ④ EXISTING- TO LEFT MAIN                                   | ⑧ 55035-4 FUEL LINE ASSY- TO                                      |

FUEL  
LINE  
CODING

APPROVED BY: Klingman DATE 11-3-67  
CHECKED BY: DATE  
DRAWN: J.M. Donaldson DATE 9-13-66  
A O. Klingman  
CHANGE APPROVED BY: DATE

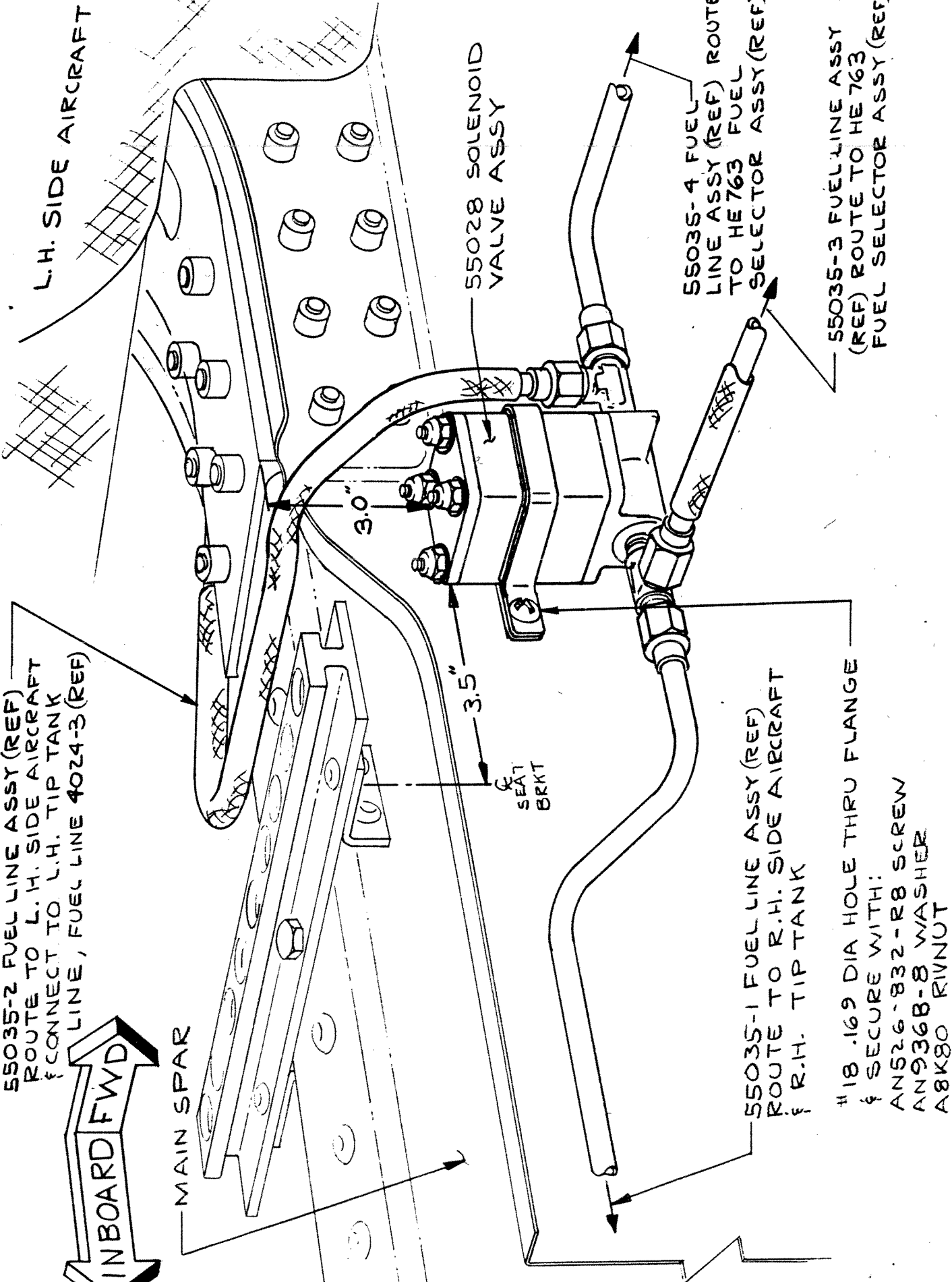
A

4077 SH 1  
JE 8

A

CHANGE

DRAWING NUMBER



APPROVED BY: O. Klingman DATE 11-3-77  
CHECKED BY: DATE  
DRAWN: J.M. DONALDSON DATE 8-30-66

4077 SH 3 OF 8  
DRAWING NL R

CHANGE APPROVED BY:

MB1009

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Oro Grande, Calif. 92368

# FUEL LINE INSTALLATION

4077 SH 3 OF 8  
DRAWING NUMBER

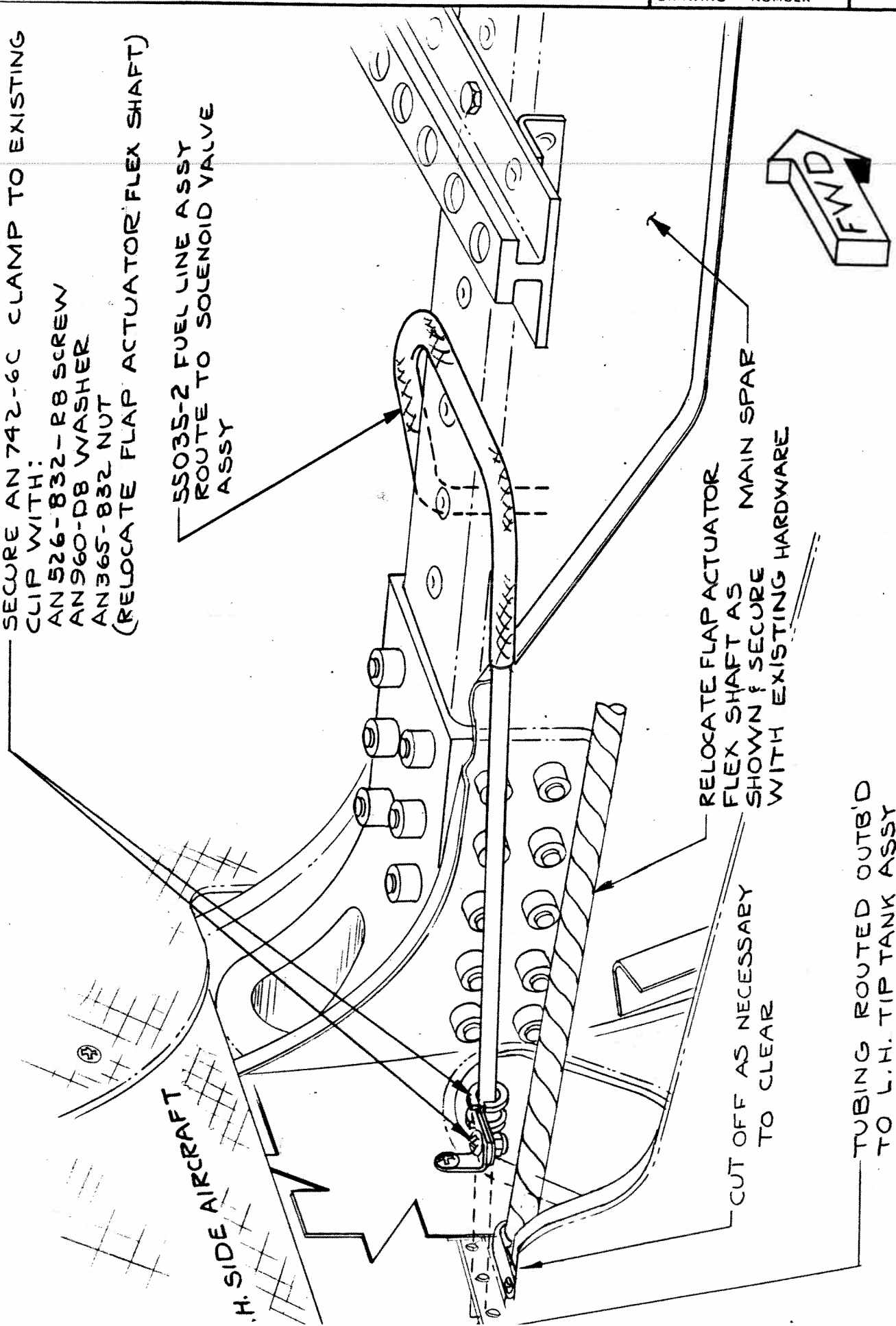
SECURE AN 742-6C CLAMP TO EXISTING CLIP WITH:  
AN 526-832-R8 SCREW  
AN 960-DB WASHER  
AN 365-832 NUT  
(RELOCATE FLAP ACTUATOR FLEX SHAFT)

55035-2 FUEL LINE ASSY  
ROUTE TO SOLENOID VALVE ASSY

RELOCATE FLAP ACTUATOR FLEX SHAFT AS SHOWN & SECURE WITH EXISTING HARDWARE

CUT OFF AS NECESSARY TO CLEAR

TUBING ROUTED OUTB'D TO L.H. TIP TANK ASSY



CHANGE APPROVED BY:

DATE:

APPROVED BY: *O. Klingman*

DATE: 11-3-7

CHECKED BY:

DRAWN: J.M. DONALDSON DATE: 8-30-66

4077 SH 4  
OF 8

DRAWING NUMBER

CHANGE

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Oro Grande, Calif. 92368

## FUEL LINE INSTALLATION

4077 SH 4  
OF 8  
DRAWING NUMBERFUEL LINE ASSY ROUTED TO LEFT  
SIDE AIRCRAFT (SOLENOID VALVE)TUBING ROUTED OUTB'D  
TO R.H. TIP TANK ASSY#18(169) DIA HOLE THRU FLANGE AS  
SHOWN & SECURE ADEL 758-6  
CLAMP (OR EQUIV) WITH:  
AN526-832-R8 SCREW  
AN960-08 WASHER  
AN365-832 NOT (2-EA REQD)55035-1 FUEL LINE ASSY (REF) TO  
ADEL 758-6 CLAMP IN VIEW A

55035-1 FUEL LINE ASSY

R.H. SIDE AIRCRAFT

1.12"

1.75"

.50 DIA HOLE THRU  
EXISTING AIRCRAFT  
STRUCTURE & INSTALL  
500-6 HEYCO GROMMET  
AS SHOWN

SEE VIEW A

AN815-60 UNION

AN818-60 NUT

AN819-60 SLEEVE

55035-6 FUEL LINE

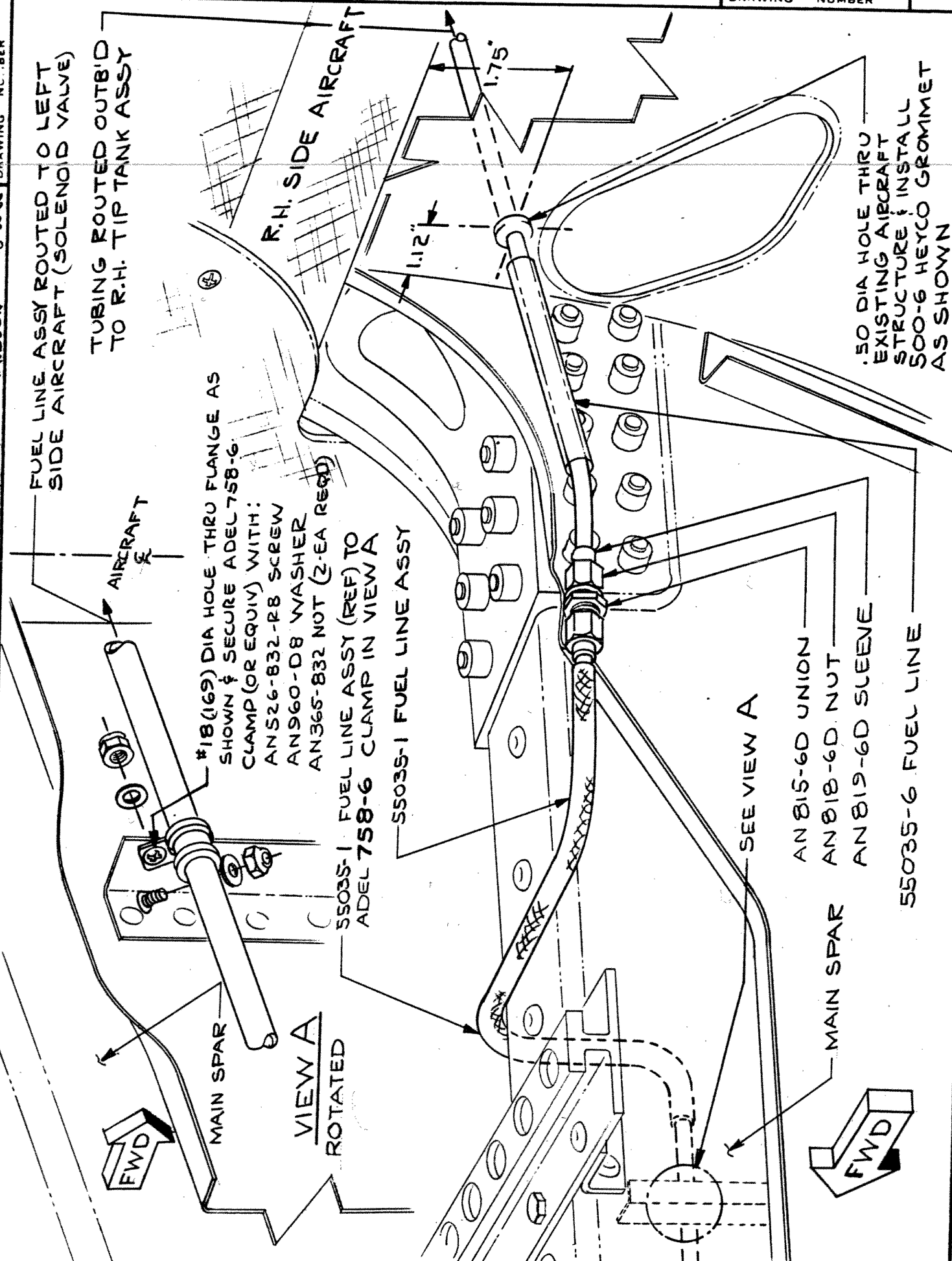
MAIN SPAR

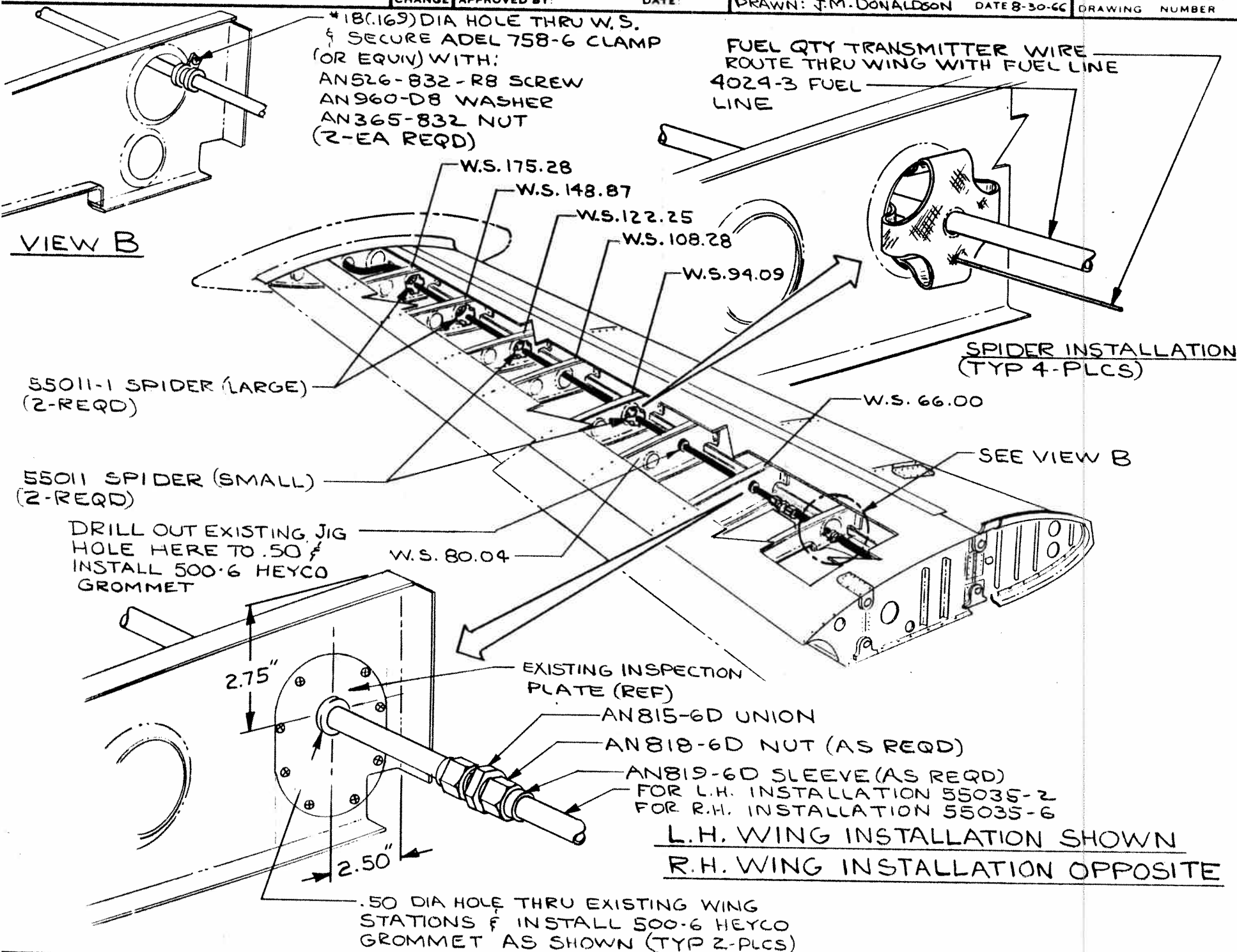
VIEW A  
ROTATED

MAIN SPAR

FWD

FWD





APPROVED BY: *R. H. H. H.* DATE: 11-3-77  
 CHECKED BY: *J. M. DONALDSON* DATE: 8-30-66  
 DRAWN: J. M. DONALDSON DATE: 8-30-66  
 CHANGE APPROVED BY: *DAN*

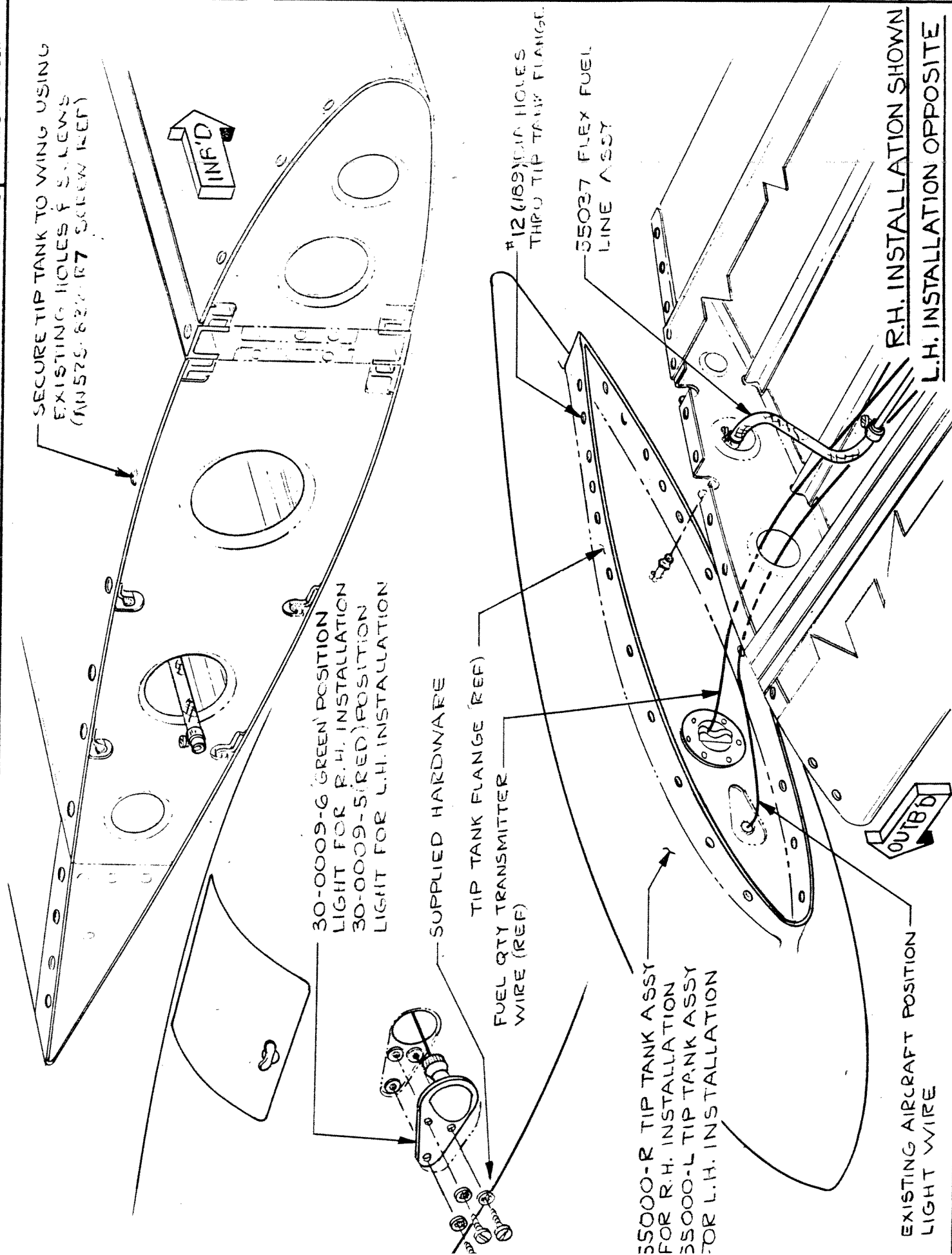
4077 SH 6  
 F 8

DRAWING NUMBER

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 Oro Grande, Calif. 92368

# TIP TANK INSTALLATION

4077 SH 6  
 OF 8  
 DRAWING NUMBER

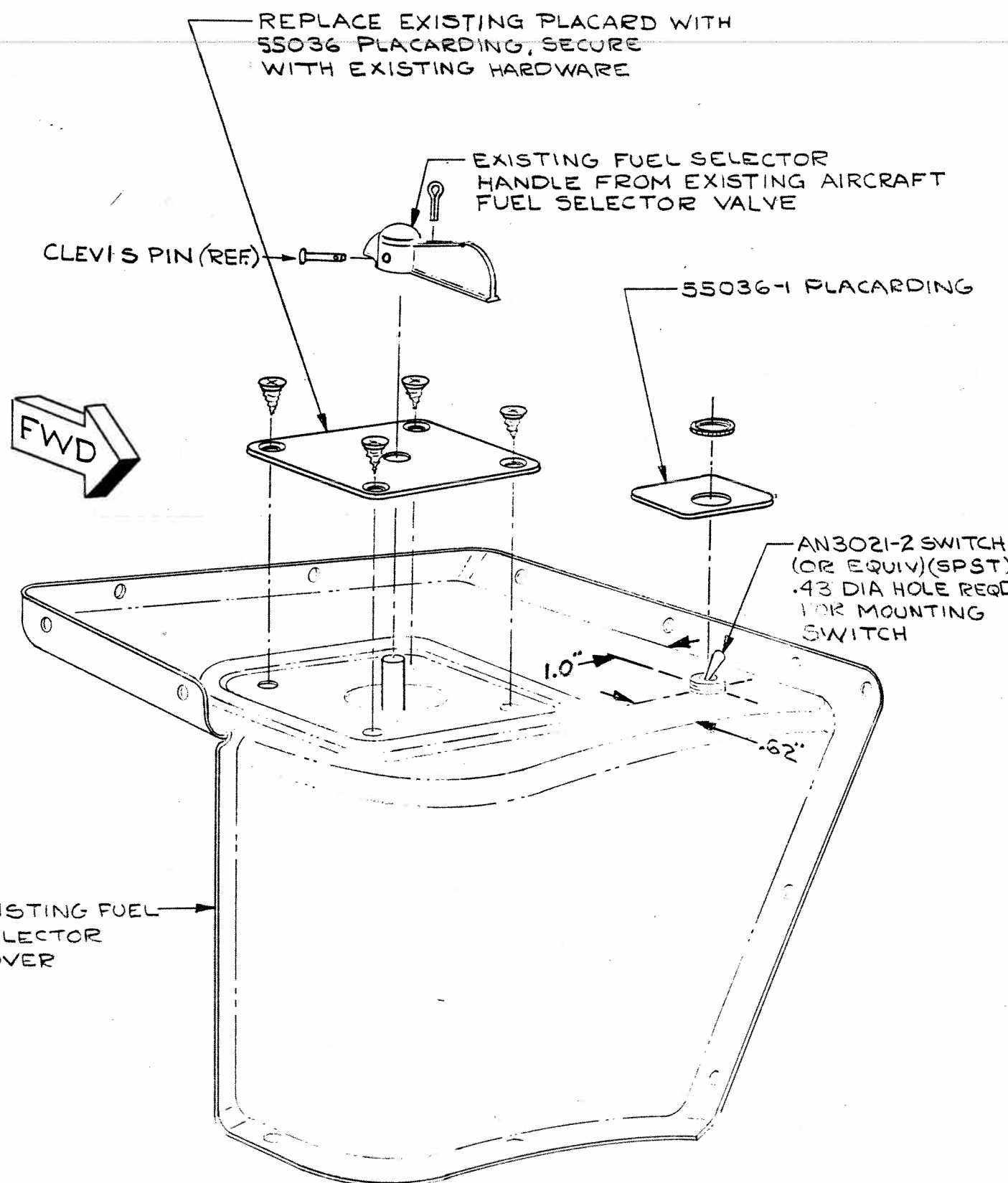


APPROVED BY: *R. J. Kingman*  
 CHECKED BY:  
 DRAWN: J.M. DONALDSON  
 DATE: 11-3-67  
 DATE: 8-30-66

DATE:  
 DATE:

APPROVED BY:  
 CHECKED BY:  
 DATE:

DATE:



A  
O. Klingman  
DATE: 5-7



TO BUSS

3 AMP FUSE

(SPST) SWITCH

SOLENOID VALVE (NORMALLY CLOSED)

```
graph LR
    BUSS[TO BUSS] --> FUSE[3 AMP FUSE]
    FUSE --> SWITCH["(SPST) SWITCH"]
    SWITCH --> VALVE[SOLENOID VALVE (NORMALLY CLOSED)]
    SWITCH --> GND[GROUND]
```

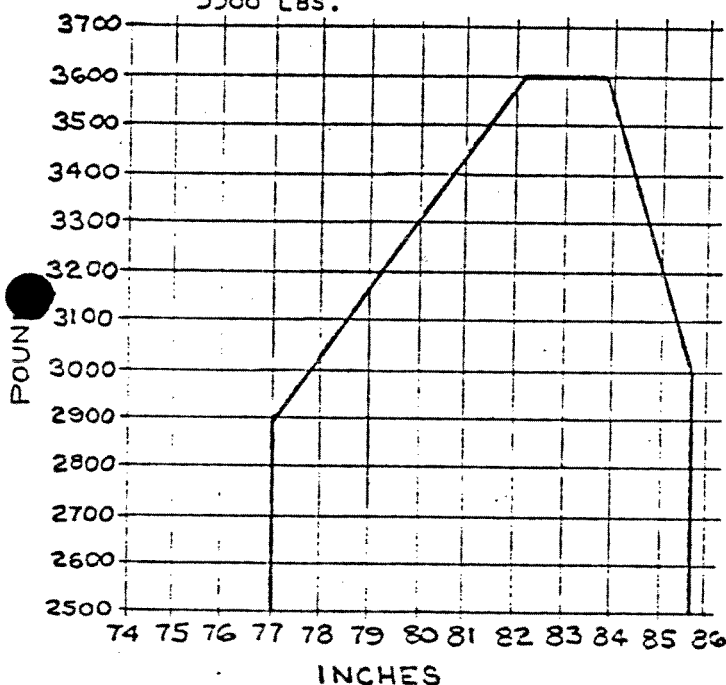
AIRPLANE FLIGHT MANUAL SUPPLEMENT  
FOR  
BEECHCRAFT WING TIP FUEL TANK INSTALLATION  
MANUFACTURED BY BRITAIN INDUSTRIES

THIS AIRCRAFT IS EQUIPPED WITH WING TIP TANKS BRITAIN PART #55000, 20 GALLONS EACH, AND MUST BE OPERATED IN COMPLIANCE WITH THE LIMITATIONS HEREIN.

I. LIMITATIONS SECTION

SAME AS PRESCRIBED IN APPROPRIATE CAA, FAA, OR DMCR APPROVED AIRPLANE FLIGHT MANUAL, EXCEPT:

1. C.G. RANGE - (AS SHOWN BELOW)
2. MAXIMUM ALLOWABLE GROSS WEIGHT FOR LANDING AND TAKE-OFF IS 3600 LBS.  
THIS WEIGHT MUST INCLUDE A MINIMUM OF TWO GALLONS OF FUEL IN EACH TIP TANK.
3. AUXILIARY WING TIP TANK FUEL TO BE USED IN LEVEL FLIGHT ONLY.
4. AIRCRAFT TO BE OPERATED IN NORMAL CATEGORY ONLY, WITH DESIGNED STRUCTURAL LOADING OF 3.8 G. NO AEROBATICS PERMITTED.
5. MAXIMUM ALLOWABLE GROSS WEIGHT FOR TAKE OFF AND LANDING WITH TIP TANKS EMPTY IS 3588 Lbs.



C. G. RANGE

FORWARD (+77.0) AT 2900 LB., THEN TO (+82.1) AT 3600 LB.  
AFT (+85.7) AT 3000 LB., THEN TO (+83.8) AT 3600 LB.  
STRAIGHT LINE VARIATION BETWEEN POINTS.

C.G. of tip tank fuel is 89.5" aft of datum.

II. PROCEDURE SECTION

SAME AS PRESCRIBED IN APPROPRIATE CAA, FAA, OR DMCR APPROVED AIRPLANE FLIGHT MANUAL, EXCEPT:

1. LOAD TIP TANK FUEL SYMMETRICALLY. IF UNSYMMETRICAL FUEL LOADING SHOULD OCCUR IN FLIGHT, ADEQUATE CONTROL IS AVAILABLE FOR LANDING.
2. USE FUEL FROM THE "LEFT MAIN" TANK UNTIL AT LEAST TEN (10) GALLONS HAVE BEEN USED. FUEL FROM THE TIP TANKS MAY THEN BE USED IN LEVEL FLIGHT ONLY.
3. TO USE FUEL FROM THE TIP TANKS, TURN THE SELECTOR TO EITHER THE LEFT-HAND OR RIGHT-HAND TIP POSITION. THE TIP TANK SELECTED WILL FEED TO THE ENGINE WHEN THE TIP CROSSFEED SWITCH IS IN THE "OFF" POSITION. WHEN THE TIP CROSSFEED SWITCH IS IN THE "OPEN" POSITION AND THE SELECTOR IN EITHER TIP POSITION, BOTH TIPS WILL FEED SIMULTANEOUSLY TO THE ENGINE.

AIRPLANE FLIGHT MANUAL SUPPLEMENT  
BEECHCRAFT WING TIP FUEL TANK INSTALLATION

(C) | Beech Model V35, V35A & V35B

4. THE TIP CROSSFEED SWITCH MUST BE IN THE "OFF" POSITION EXCEPT WHEN ACTUAL TIP FUEL CROSSFEED IS BEING USED. RE-CHECK THE "LEFT MAIN" FUEL QUANTITY PERIODICALLY AND RETURN TO THE "LEFT MAIN" SELECTION ANY TIME ITS QUANTITY IS ABOVE 3/4 FULL. THE ENGINE RETURN LINE FEEDS EXCESS FUEL BACK INTO THE "LEFT MAIN" TANK.
5. NORMAL TIP TANK FUEL USAGE IS ACCOMPLISHED WITH THE TIP CROSSFEED SWITCH IN THE "OPEN" POSITION. HOWEVER, IF ASYMMETRICAL FUEL LOADING OCCURS, PLACE THE CROSSFEED SWITCH IN THE "OFF" POSITION AND SELECT THE "HEAVY" TIP TANK UNTIL THE LOAD IS SYMETRICAL. RETURN THE CROSSFEED SWITCH TO THE "OPEN" POSITION.
6. WHEN TIP TANK FUEL HAS BEEN USED, RETURN THE SELECTOR TO A "MAIN TANK" POSITION. IF THE TIP TANK LINES HAVE BEEN RUN COMPLETELY DRY IN FLIGHT, AIR MAY BE TRAPPED IN THE LINE WHEN TIP TANKS ARE SUBSEQUENTLY FILLED. THIS AIR POCKET IN THE LINE MAY PREVENT FEEDING OF FUEL FROM THE TIP TANKS. TO AVOID THIS CONDITION, OPERATE THE POWER PLANT FROM EACH WING TIP TANK SEPARATELY UNTIL STEADY FUEL FLOW IS ASSURED DURING GROUND RUN-UP PRIOR TO FLIGHT. USE ENGINE BOOST PUMP (LOW BOOST ON TURBO CHARGED ENGINES) IF REQUIRED DURING FUEL SWITCH-OVER.

FAA APPROVED UNDER S.T.C. SA4-1629

ITEMS DENOTED BY (A) INCORPORATED IN REVISION

DATED: 8/31/66

APPROVED: Chris R. Hank  
Chief, Aircraft Engineering Division  
Federal Aviation Agency, Western Region

Items denoted by (B) Incorporated in revision dated 11/3/67

Approved: Osco Lippie

Items denoted by "C" Bar incorporated in revision dated 8 APRIL 1970

Approved: OK Sampley  
BRITAIN

11989 Kit # 35668-5  
Sh. 1 of 1  
Packing List Number

Approved By: *H. A. Delaney*  
Date

Change

|                                                                       |              |                                                        |                                                            |
|-----------------------------------------------------------------------|--------------|--------------------------------------------------------|------------------------------------------------------------|
| Osborne Tank & Supply<br>Star Rte. Box 12<br>Oro Grande, Calif. 92368 |              | Wing Tip Tank # 11989<br>Packing List<br>Kit # 35668-5 | # 11989 Kit # 35668-5<br>Sh. 1 of 1<br>Packing List Number |
| Item No.                                                              | Part Number  | 619/245-8437 Description                               | Qty Drawing Found On                                       |
| 1                                                                     | 55034        | Fuel Selector Valve Assembly                           | 1 4077, Sh. 1                                              |
|                                                                       | 55035-3      | Fuel Line Assy.                                        | 1                                                          |
|                                                                       | 55035-4      | Fuel Line Assy.                                        | 1                                                          |
|                                                                       | 55035-5      | Fuel Line Assy.                                        | 1                                                          |
|                                                                       | 55035-7      | Fuel Line Assy.                                        | 1                                                          |
| 2                                                                     | 55028        | Solenoid Valve Assy.                                   | 1 4077, Sh. 2                                              |
|                                                                       | ABK80        | Rivnut (B. F. Goodrich P/N)                            | 1                                                          |
|                                                                       | AN936B-8     | Washer                                                 | 1                                                          |
| 3                                                                     | 55035-2      | Fuel Line Assy.                                        | 1 4077, Sh. 3                                              |
| 4                                                                     | 55035-1      | Fuel Line Assy.                                        | 1 4077, Sh. 4                                              |
|                                                                       | 55035-6      | Fuel Line                                              | 1                                                          |
| 5                                                                     | 55011        | Spider (Small)                                         | 4 4077, Sh. 5                                              |
|                                                                       | 55011-1      | Spider (Large)                                         | 4                                                          |
|                                                                       | 4024-3       | Fuel Line $\frac{3}{8}$ " X 144"                       | 2                                                          |
| 6                                                                     | 55000-R      | Tip Tank Assy. S/N _____                               | 1 4077, Sh. 6                                              |
|                                                                       | 55000-L      | Tip Tank Assy. S/N _____                               | 1                                                          |
|                                                                       | 55037        | Flex Fuel Line Assy.                                   | 2                                                          |
|                                                                       | A-1285-G-12  | Position Light (Green) P/N Grimes Mfg. Co.             | 1                                                          |
|                                                                       | A-1285-R-12  | Position Light (Red) P/N Grimes Mfg. Co.               | 1                                                          |
| 7                                                                     | 55036        | Placard                                                | 1 4077, Sh. 7                                              |
|                                                                       | 55036-1      | Placard                                                | 1                                                          |
| 8                                                                     | 55027        | Fuel Quantity Gage                                     | 1 4077, Sh. 8                                              |
| 9                                                                     | AN815-4D     | Union                                                  | 1 Misc. Hardware                                           |
|                                                                       | AN815-6D     | Union                                                  | 3                                                          |
|                                                                       | AN818-6D     | Nut                                                    | 4                                                          |
|                                                                       | AN819-6D     | Sleeve                                                 | 4                                                          |
|                                                                       | AN526-832-R8 | Screw                                                  | 8                                                          |
|                                                                       | AN742-6C     | Clamp (Or Equiv.)                                      | 1                                                          |
|                                                                       | AN365-832    | Nut                                                    | 6                                                          |
|                                                                       | AN960-D8     | Washer                                                 | 6                                                          |
|                                                                       | AN3021-3     | Switch (Or Equiv.)(SPDT)                               | 1                                                          |
|                                                                       | AN3021-2     | Switch (Or Equiv.)(SPST)                               | 1                                                          |
|                                                                       | 758-6        | Adel Clamp (Or Equiv.)                                 | 3                                                          |
|                                                                       | # 20 AWG     | Vinyl Hook-Up Wire, White, MIL-W-16878, Type BU        | 50 Feet.                                                   |
|                                                                       | PVC-105/9    | Clear Vinyl Tubing                                     | 8 Feet.                                                    |
|                                                                       | SB500-6      | Heyco Grommet (Heyman Mfg. Co. P/N)                    | 5                                                          |
|                                                                       | RA18-8       | Terminal (Thomas & Betts P/N)                          | 7                                                          |
|                                                                       | RA18-10      | Terminal (Thomas & Betts P/N)                          | 3                                                          |
|                                                                       | 55038        | Inline Fuse Holder                                     | 1                                                          |
|                                                                       | 55039        | Placard                                                | 1                                                          |
|                                                                       | AN525-832-R7 | Screw                                                  | 60                                                         |
| 10                                                                    | 11989        | Installation Manual - Rev. "C"                         | 1                                                          |
|                                                                       | 96032        | Flight Manual Supplement (S35) DTD. 11/3/67            | 1                                                          |
|                                                                       | 96033        | Flight Manual Supplement (V35) DTD. 4/8/70             | 1                                                          |
|                                                                       | 96043        | Flight Manual Supplement (35C33A) DTD. 9/12/67         | 1                                                          |
|                                                                       | 20684        | Flight Manual Supplement (F33A) DTD. 8/6/70            | 1                                                          |
| Kit # 35668-5                                                         |              |                                                        |                                                            |
| Models S 35, V35A, 35-C33A, E 33A, V35, V35B, F 33A                   |              |                                                        |                                                            |