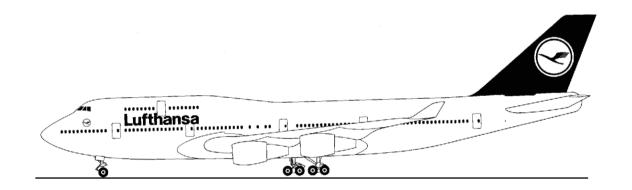


# **Lufthansa Technical Training**

# Training Manual B 747-430



ATA 28
PRACTICAL TRAINING
HANDBOOK

WF - B12 -.E./.M.



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**FUEL MEASURING STICKS** 

Main Tank Fuel Measuring SticksCWT Fuel Measuring Sticks

HST Fuel Measuring Sticks

## ATA 28 FUEL SYSTEM

## STUDENT PACED PRACTICAL TRAINING ITEMS

28-44

#### **B1 M QUALIFICATION**

ATA 28-10 STORAGE includes 28-11, 28-13, 28-15, 28-16, 28-17

#### 28-11 FUEL TANKS

- Wing Tanks Fuel Sump Drain Valves
- HST Fuel Sump Drain Valves
- HST Sump Drain Control Panel

#### 28-15 CWT SCAVENGE SYSTEM

Scavenge Pump

#### 28-16 RES & MAIN TANK TRANSFER

- · Reserve Tank Transfer Valves
- Main Tank Transfer Valves

#### 28-17 HST FUEL TRANSFER SYSTEM

- HST Transfer Pump Access
- HST Isolation Valves Access

#### 28-21 PRESSURE FUELING SYSTEM

- · Fueling Receptacle
- · Manual Fueling Shutoff Valves
- · Refuel Valves Access
- VTO Override Switch (FQIS Processor)

#### 28-22 ENGINE FUEL FEED SYSTEM

- Engine Fuel Shutoff Valves (SPAR VALVE)
- Crossfeed Valves
- · Main Tank Boost Pumps

#### 28-25 APU FUEL FEED SYSTEM

- APU DC Fuel Boost Pump
- · APU Fuel Shutoff Valve

#### 28-26 DEFUELING

· Manual Defueling Valve

#### 28-31 FUEL JETTISON SYSTEM

- CWT Jettison / Override Pumps
- Main Tank Jettison / Override Pumps
- Jettison Transfer Valves
- Jettison Nozzle Valves Access

#### 28-41 FUEL QTY INDICATION SYSTEM

- FQIS Processor
- Fueling Qty Indicators (P42)

#### 28-42 FUEL PRESSURE IND SYSTEM

Low Pressure Switches (all Fuel Pumps)



28-00

# STUDENT PACED PRACTICAL TRAINING ITEMS

B2 M QUALIFICATION NO ITEMS LISTED



## STUDENT PACED PRACTICAL TRAINING ITEMS

#### **B1 E QUALIFICATION**

ATA 28-10 STORAGE includes 28-11, 28-13, 28-15, 28-16, 28-17

#### 28-11 FUEL TANKS

- HST Fuel Sump Drain Valves
- HST Sump Drain Control Panel

#### 28-15 CWT SCAVENGE SYSTEM

Scavenge Pump

#### 28-16 RES & MAIN TANK TRANSFER

Reserve Tank Transfer Single Point Sensor Card

#### 28-17 HST FUEL TRANSFER SYSTEM

- HST Transfer Pump Access
- HST Isolation Valves Access
- HST Transfer Single Point Sensor Card

#### 28-21 PRESSURE FUELING SYSTEM

- VTO Adjustment Card ( FQIS Processor )
- Relay Card (FQIS Processor)

#### 28-22 ENGINE FUEL FEED SYSTEM

- Fuel System Management Cards
- Fuel System EICAS Interface Cards (Main/Slave)
- Valve Position Logic Cards

#### 28-31 FUEL JETTISON SYSTEM

- Jettison Transfer Valves
- · Jettison Nozzle Valves Access
- Fuel Jettison Control Cards (A/B)
- Main Tank Transfer Single Point Sensor Card

#### 28-41 FUEL QTY INDICATION SYSTEM

- Fueling Qty Indicators (P42)
- FQIS Processor
  - Individual Fuel Qty Channels
  - Input / Output Cards
- Remote Electronics Unit ( REU )

#### 28-42 FUEL PRESSURE IND SYSTEM

• Low Pressure Switches (all Fuel Pumps)

#### 28-43 FUEL TEMP INDICATION SYSTEM

• Fuel Temperature Bulb



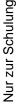
# STUDENT PACED PRACTICAL TRAINING ITEMS

**B2 E QUALIFICATION NO ITEMS LISTED** 



# ATA 28-10 STORAGE

**COMPONENT INDEX AND LOCATION** 





Page: 6

# **Practical Training Handbook**

### **STORAGE**

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - VALVE, INBD NO. 2 RESERVE TANK	17	1	L REAR SPAR TO TRAILING EDGE	28-16-01
TRANSFER (2A), V432 ACTUATOR - VALVE, INBD NO. 3 RESERVE TANK	17	1	R REAR SPAR TO TRAILING EDGE	28-16-01
TRANSFER (3A), V430 ACTUATOR - VALVE L HORIZONTAL STABILIZER	21	1	L WING LANDING GEAR WELL	28-17-01
FORWARD ISOLATION, V439 ACTUATOR - VALVE, L (UPPER) HORIZONTAL STABI- LIZER AFT ISOLATION, V435	21	1	315A, AREA AFT OF STABILIZER BOX COMPARTMENT	28-17-01
ACTUATOR - VALVE, R (LOWER) HORIZONTAL STABI- LIZER AFT ISOLATION, V436	21	1	315A, AREA AFT OF STABILIZER BOX COMPARTMENT	28-17-01
ACTUATOR - VALVE, NO. 1 MAIN TANK TRANSFER, V55	17	1	573AB, L REAR SPAR TO INBD AILERON LEADING EDGE	28-16-04
ACTUATOR - VALVE, NO. 4 MAIN TANK TRANSFER,	17	1	673AB, R REAR SPAR TO INBD AILERON LEADING EDGE	28-16-04
ACTUATOR - VALVE, OUTBD NO. 2 RESERVE TANK TRANSFER (2B), V433	17	1	L REAR SPAR TO TRAILING EDGE	28-16-01
ACTUATOR - VALVE, OUTBD NO. 3 RESERVE TANK TRANSFER (3B), V431	17	1	R REAR SPAR TO TRAILING EDGE	28-16-01
ACTUATOR - VALVE, R HORIZONTAL STABILIZER FORWARD ISOLATION, V440	21	1	R WING LANDING GEAR WELL	28-17-01
ADAPTER - VALVE, NO. 1 MAIN TANK TRANSFER	17	1	545BB, L MID SPAR TO REAR SPAR INBD MAIN TANK, 573AB, L REAR SPAR TO INBD AILERON LEADING	28-16-06
ADAPTER - VALVE, NO. 4 MAIN TANK TRANSFER	17	1	EDGE 645BB, R MIDSPAR TO REAR SPAR INBD MAIN TANK, 673AB, R REAR SPAR INBD AILERON LEADING EDGE	28-16-06
ADAPTER - VALVE (2A), INBD NO. 2 RESERVE TANK TRANSFER	17	1	552GB, L FRONT SPAR TO REAR SPAR RESERVE TANK, L REAR SPAR TO TRAILING EDGE	28-16-03
ADAPTER - VALVE (2B), OUTBD NO. 2 RESERVE TANK TRANSFER	17	1	552GB, L FRONT SPAR TO REAR SPAR RESERVE TANK, L REAR SPAR TO TRAILING EDGE	28-16-03
ADAPTER - VALVE (3A), INBD NO. 3 RESERVE TANK TRANSFER	17	1	652GB, R FRONT SPAR TO REAR SPAR RESERVE TANK, R REAR SPAR TO TRAILING EDGE	28-16-03
ADAPTER - VALVE (3B), OUTBD NO. 3 RESERVE TANK TRANSFER	17	1	652GB, R FRONT SPAR TO REAR SPAR RESERVE TANK, R REAR SPAR TO TRAILING EDGE	28-16-03
ARRESTER - FLAME, HORIZONTAL STABILIZER SURGE	15	1	361AB, R HORIZONTAL STABILIZER SURGE TANK	28-13-1 1
ARRESTER - FLAME, L WING SURGE TANK	15	1	556AB, L FRONT SPAR TO REAR SPAR DRY BAY	28-13-09
ARRESTER - FLAME, R WING SURGE TANK	15	1	656AB, R FRONT SPAR TO REAR SPAR DRY BAY	28-13-09
ASSEMBLY - ADAPTER/SHAFT, LEFT HORIZONTAL STABILIZER FORWARD ISOLATION VALVE	21	1	131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX, L WING LANDING GEAR WELL	28-17-03
ASSEMBLY - ADAPTER/SHAFT, R (LOWER) HORIZON- TAL STABILIZER AFT ISOLATION VALVE	21	1	315A, R STABILIZER TORSION BOX COMPARTMENT, R HORIZONTAL STABILIZER TORSION BOX	28-17-03

Storage - Component Index Figure 101 (Sheet 1)

Figure 1 28-10 Storage Component Index (Sheet 1)



	1			
	FIG.			
COMPONENT	102	QTY	ACCESS/AREA	REFERENCE
	SHT			
ASSEMBLY - ADAPTER/SHAFT, R HORIZONTAL	21	1	131AZ,131BZ,132AZ,132BZ, CENTER	28-17-03
STABILIZER FORWARD ISOLATION VALVE			SECTION WING BOX, WING LANDING	
A COEMPLY ADARTED/OLIA ET LIDDED LIODIZONTAL			GEAR WELL	00.47.00
ASSEMBLY - ADAPTER/SHAFT UPPER HORIZONTAL STABILIZER AFT ISOLATION VALVE	21	1	315A, STABILIZER TORSION BOX COMPARTMENT, HORIZONTAL	28-17-03
STABILIZER AFT ISOCATION VALVE			STABILIZER TORSION BOX	
ASSEMBLY - INLET/SCREEN, SCAVENGE PUMP	17	1	131AZ,131BZ, L CENTER SECTION	28-15-05
			WING BOX	28-16-02
BODY - VALVE (2A), INBD NO. 2 RESERVE TANK	17	1	552GB, L MID SPAR TO REAR SPAR	20-10-02
TRANSFER, V432 BODY - VALVE (3A), INBD NO. 3 RESERVE TANK	17	1	OUTBD MAIN TANK 652GB, R MID SPAR TO REAR SPAR	28-16-02
TRANSFER, V430	''	l '	OUTBD MAIN TANK	
BODY - VALVE, L HORIZONTAL STABILIZER FORWARD	21	1	131AZ,131BZ,131CZ,131CZ, L	28-17-02
ISOLATION, V439	21	1	CENTER SECTION WING BOX	28-17-02
BODY - VALVE, LOWER HORIZONTAL STABILIZER AFT ISOLATION, V436	21	1	L HORIZONTAL STABILIZER FUEL TANK	20 17 02
BODY - VALVE, NO. 1 MAIN TANK TRANSFER, V55	17	1	545BB, L MID SPAR TO REAR SPAR	28-16-05
			INBD MAIN TANK, 646AB, L MID	
			SPAR TO REAR SPAR OUTBD MAIN	
BODY - VALVE, NO. 4 MAIN TANK TRANSFER, V50	17	1	TANK 645BB, R MID SPAR TO REAR SPAR	28-16-05
BODY - VALVE, NO. 4 WAIN TAINK TRANSFER, VOO	''	'	INBD MAIN TANK, 646AB, R MID	
			SPAR TO REAR SPAR OUTBD MAIN	
	l		TANK	28-16-02
BODY - VALVE (2B), OUTBD NO. 2 RESERVE TANK TRANSFER. V433	17	1	552GB, L MID SPAR TO REAR SPAR OUTBD MAIN TANK	20-10-02
BODY - VALVE (3B), OUTBD NO. 3 RESERVE TANK	17	1	652GB, R MID SPAR TO REAR SPAR	28-16-02
TRANSFER, V431			OUTBD MAIN TANK	
BODY - VALVE, R HORIZONTAL STABILIZER FORWARD	21	1	131AZ,131BZ,132AZ,132BZ CENTER	28-17-02
ISOLATION, V440 BODY - VALVE, UPPER HORIZONTAL STABILIZER AFT	21	1	SECTION WING BOX L HORIZONTAL STABILIZER FUEL	28-17-02
I ISOLATION, V435	21	' '	TANK	
CARD - FUEL JETTISON CONTROL A, Y5BA7		1	117AL, MAIN EQUIP CTR, FUEL	*
CARD FUEL IETTICON CONTROL D VERAS		1	SYSTEM CARD FILE, M7852	*
CARD - FUEL JETTISON CONTROL B, Y5BA8		1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	
CARD - FUEL SYSTEM EICAS INTERFACE - MAIN,		1	117AL, MAIN EQUIP CTR, FUEL	*
Y5BA14			SYSTEM CARD FILE, M7852	*
CARD - FUEL SYSTEM EICAS INTERFACE - SLAVE, Y5BA15		1	117AL, MAIN EQUIP CTR, FUEL	
CARDS - (28-22-00/101)			SYSTEM CARD FILE, M7852	
FUEL SYSTEM MANAGEMENT A, Y5BA5		1	117AL, MAIN EQUIP CTR, FUEL	*
			SYSTEM CARD FILE, M7852	*
FUEL SYSTEM MANAGEMENT B, Y5BA10		1	117AL, MAIN EQUIP CTR, FUEL	-
CARD - HORIZONTAL STABILIZER SINGLE TRANSFER		1	SYSTEM CARD FILE, M7852 117AL, MAIN EQUIP CTR, FUEL	28-17-10
SINGLE POINT SENSOR CONTROL, Y5BA3		'	SYSTEM CARD FILE, M7852	
			3 : 3 : 2 : 1 : 2 : 1 : 2 ; 11/1 002	Į

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

Storage - Component Index Figure 101 (Sheet 2)

Figure 2 28-10 Storage Component Index (Sheet 2)



# **Practical Training Handbook**

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CARD - RESERVE TANK SINGLE POINT SENSOR CONTROL, Y5BA2 CARD - (REF 28-22-00, FIG. 101) VALVE POSITION LOGIC 1, Y5BA6  VALVE POSITION LOGIC 2, Y5BA9  VALVE POSITION LOGIC 3, Y5BA11  VALVE POSITION LOGIC 4, Y5BA12  CIRCUIT BREAKERS - FUEL SYS MGMT CH 1, C10129 FUEL SYS MGMT CH 2, C10130 FUEL XFR VALVE MAIN 1, C83 FUEL XFR VALVE MAIN 4, C1080 FUEL XFR VALVE RES 2A & 3A, C1968		1 1 1 1 1 1 1 1 1 1 1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852  117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852 117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852 117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852 117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852 117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852 FLT COMPT, P6,P7 6F6 6F8 7H21 7H24 7H22	28-16-08
FUEL XFR VALVE RES 2B & 3B, C1967 REFUEL & XFR STAB L, C10125 REFUEL & XFR STAB R, C10126 CIRCUIT BREAKERS - HORIZ STAB BOOST PUMP ARFT, C3142 HORIZ STAB BOOST PUMP FWD, C3141 CIRCUIT BREAKERS - SCAV PUMP CONT, C292 SCAVENGE PUMP, C922 DOOR - ACCESS, HORIZONTAL STABILIZER TANK DOOR - ACCESS, INBD HORIZONTAL STABILIZER	1 2	1 1 1 1 1 1 1 1 1 1 1 1 1	7H23 7H25 7H26 P85 85 N/A 85 N/A 117AL, MAIN EQUIP CTR, P180,P414 180H2 414M2 312A, L AREA AFT OF PRESSURE BULKHEAD R HORIZONTAL STABILIZER SURGE	28-11-19 28-11-20
SURGE TANK DOOR - ACCESS, L CENTER WING TANK	1	1	TANK 131EZ, L FORWARD LOWER HALF WING TO BODY FAIRING	28-11-01
DOOR - ACCESS, L WING RESERVE AND MAIN TANK	1	22	545AB,545AB,545BB,546AB,546BB, 552AB,552BB,552CB,552DB,552EB, 552FB,552GB,553AB,553BB,553CB, 553DB,553EB,553FB,553GB,553HB, 553JB,553KB, L WING	28-11-02
DOOR - ACCESS, L WING SURGE TANK	2	2	555AB,555BB, L FRONT SPAR TO REAR SPAR SURGE TANK	28-11-03
DOOR - ACCESS, R CENTER WING TANK	1	1	132CZ, R FORWARD LOWER HALF WING TO BODY FAIRING	28-11-01
DOOR - ACCESS, R WING RESERVE AND MAIN TANK	1	22	644AB,645AB,645BB,646AB,646BB, 652AB,652BB,652CB,652DB,652EB, 652FB,652GB,653AB,653BB,653CB, 653DB,653EB,653FB,653GB,653HB, 653JB,653KB	28-11-02

Storage - Component Index Figure 101 (Sheet 3)

Figure 3 28-10 Storage Component Index (Sheet 3)



	1			1
	FIG.			
COMPONENT	102	QTY	ACCESS/AREA	REFERENCE
	SHT			
	5П1			
DOOR - ACCESS, R WING SURGE TANK	2	2	655AB,655BB, R FRONT SPAR TO REAR SPAR SURGE TANK	28-11-03
DOOR - ACCESS, SPANWISE BEAM MIDSPAR	1	2	131CZ,132AZ, CENTER SECTION WING BOX	28-11-09
DOOR - ACCESS, SPANWISE BEAM NO. 1	1	2	131DZ,132BZ, CENTER SECTION WING BOX	28-11-09
DOOR - ACCESS, SPANWISE BEAM NO. 2	1	1	131BZ, L CENTER SECTION WING BOX	28-11-09
DOOR - ACCESS, SPANWISE BEAM NO. 3	1	1	131AZ, L CENTER SECTION WING BOX	28-11-09
DOOR - ACCESS, OUTBD HORIZONTAL STABILIZER SURGE TANK	1	1	343JZ, R HORIZONTAL STABILIZER SURGE TANK	28-11-20
DOOR - PURGE, CENTER WING TANK FILE - FUEL SYSTEM CARD, M7852	9	1	R WING LANDING GEAR WELL 117AL, MAIN EQUIP CTR	28-11-06 *
HOUSING - PUMP, LOWER HORIZONTAL STABILIZER TANK FUEL TRANSFER		1	R HORIZONTAL STABILIZER TORSION BOX	28-17-05
HOUSING - PUMP, UPPER HORIZONTAL STABILIZER TANK FUEL TRANSFER		1	R HORIZONTAL STABILIZER TORSION BOX	28-17-05
LINE - AFT HORIZONTAL STABILIZER TANK FUEL TRANSFER		1	315A, R AREA AFT OF STABILIZER BOX COMPARTMENT	28-17-06
LINE - FORWARD HORIZONTAL STABILIZER TANK FUEL TRANSFER		1	312A, L AREA AFT OF PRESSURE BULKHEAD, R CENTER SECTION WING BOX	28-17-06
LINE - MID HORIZONTAL STABILIZER TANK FUEL TRANSFER		1	312A, L AREA AFT OF PRESSURE BULKHEAD, 315A, R AREA AFT OF STABILIZER BOX COMPARTMENT, R STABILIZER TORSION BOX COMPARTMENT	28-17-06
LINE - SCAVENGE SYSTEM FUEL		1	131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX	28-15-03
MODULE - MISCELLANEOUS DEFUEL, M6599 MODULE - (REF 26-11-00, FIG. 101)	25	1	FLT COMPT, P461	*
MISCELLANEOUS SWITCHING, M7317 POPPET - PRIMARY, HORIZONTAL STABILIZER DRIP PAN DRAIN VALVE	4	1	R AREA AFT OF PRESSURE BULKHEAD	28-11-04
POPPET - PRIMARY, HORIZONTAL STABILIZER SURGE TANK FUEL SUMP DRAIN VALVE	4	1	R HORIZONTAL STABILIZER SURGE TANK	28-11-04
POPPET - PRIMARY, L CENTER WING TANK FUEL SUMP DRAIN VALVE	4	1	191GL, L CENTER SECTION WING BOX	28-11-04
POPPET - PRIMARY, L WING SURGE TANK FUEL SUMP DRAIN VALVE	4	1	L FRONT SPAR TO REAR SPAR SURGE TANK	28-11-04
POPPET - PRIMARY, NO. 1 MAIN TANK FUEL SUMP DRAIN VALVE	5	1	L MID SPAR TO REAR SPAR INBD MAIN TANK	28-11-04
POPPET - PRIMARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE	5	1	L FRONT SPAR TO MID SPAR INBD MAIN TANK	28-11-04
POPPET - PRIMARY, NO. 2 RESERVE TANK FUEL SUMP DRAIN VALVE	5	1	L MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-11-04
POPPET - PRIMARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE	5	1	R FRONT SPAR TO MID SPAR INBD MAIN TANK	28-11-04
POPPET - PRIMARY, NO. 3 RESERVE TANK FUEL SUMP DRAIN VALVE	5	1	R MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-11-04
POPPET - PRIMARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE	5	1	R MID SPAR TO REAR SPAR INBD MAIN TANK	28-11-04
POPPET - PRIMARY, R CENTER WING TANK FUEL SUMP DRAIN VALVE	4	1	192GR, R CENTER SECTION WING BOX	28-11-04

<sup>\*</sup> SEE WDM EQUIPMENT LIST

Storage - Component Index Figure 101 (Sheet 4)

Figure 4 28-10 Sorage Component Index (Sheet 4)



580764 **heet 4 )** 

# **Practical Training Handbook**

COMPONENT 102 SHT 2  OTY ACCESS/AREA REFERENCE  POPPET - PRIMARY, R WING SURGE TANK FUEL SUMP PORAIN VALVE POPPET - SECONDARY, HORIZONTAL STABILIZER ORIPPAN DRAIN VALVE POPPET - SECONDARY, HORIZONTAL STABILIZER SURGE TANK FUEL SUMP PARAIN VALVE POPPET - SECONDARY, HORIZONTAL STABILIZER SUMP DRAIN VALVE POPPET - SECONDARY, L CENTER WING TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 1 MAIN TANK FUEL SUMP POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP PORAIN VALVE POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 5 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 5 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 5 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TANK FUEL SUMP BRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TANK FUEL SUMP BRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 6 MAIN TAN		1			1
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SUMP DRAIN VALVE POPPET - SECONDARY, NO. 1 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 RESERVE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 RESERVE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 RESERVE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 RESERVE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, RO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, RO. 5 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 1 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 2 MAIN TANK OVERWING FILL PORT - NO. 2 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 4 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 5 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 6 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 6 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 6 MAIN TANK OVERWING FILL SUMP PORT - NO. 6 MAIN TANK OVERWING FILL SUMP PORT - NO. 6 MAIN TANK FUEL SURP PORT - NO. 6 MAIN TANK POPPET - SECONDARY, RUNG SURGE TANK FUEL SURP PORT - NO. 6 MAIN TANK CHARLES TO THE TANK FUEL SURP PORT - NO. 6 MAIN TANK POPPET - SECONDARY RUNG FUEL SURP PORT - NO. 6 MAIN TANK POPPET - SECONDARY RUNG FUEL SURP PORT - NO. 6 MAIN TANK POPPET - SECONDARY RUNG FUEL SURP PORT - NO. 6 MAIN TANK POPPET - SECONDARY RUNG FUEL SURP PORT - NO. 6 MAIN TANK POPPET - SECONDARY RUNG FUEL SURP PORT - NO. 6 MAIN TANK POPPET - SECONDARY RUNG FUEL SURP PORT - NO. 6 MAIN TANK POPPET - SECONDARY RUNG FUEL	SURGE TANK FUEL SUMP DRAIN VALVE			SURGE TANK	
POPPET - SECONDARY, LWING SURGE TANK FUEL SUMP POPPET - SECONDARY, NO. 1 MAIN TANK FUEL SUMP POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R CENTER WING TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP DRAIN TANK OVERWING FILL 9 1 5 655AB, R FRONT SPAR TO MID SPAR SURGE TANK FUEL SCAVENGE, M810 R SECONDARY MAIN TANK OVERWING FILL 9 1 1 655AB, R FRONT SPAR TO MID SPAR NIBD MAIN TANK DAIN TANK OVERWING FILL 9 1 1 655AB, R FRONT SPAR TO MID SPAR NIBD MAIN TANK DAIN TANK OVERWING FILL 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POPPET - SECONDARY, L CENTER WING TANK FUEL	4	1	131EZ, L CENTER SECTION WING BOX	28-11-07
SUMP DRAIN VALVE POPPET - SECONDARY, NO. 1 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 2 RESERVE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 3 RESERVE TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, RO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, RO. 5 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, RO. 6 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 1 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK FUEL SUMP PORT - NO. 2 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK PORT - NO. 4 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK PORT - NO. 4 MAIN TANK OVERWING FILL POPPET - SECONDARY, RUNG SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SURGE TANK SABB. L FRONT SPAR TO MID SPAR SESTENCE TANK SEABL FRONT SPAR TO MID SPAR SURGE TANK SURB MAIN TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SURB MAIN TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SURB MAIN TANK SABB. L FRONT SPAR TO MID SPAR OUTSD MAIN TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR OUTSD MAIN TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR OUTSD MAIN TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID SPAR SURGE TANK SABB. L FRONT SPAR TO MID	SUMP DRAIN VALVE				
POPPET - SECONDARY, NO. 1 MAIN TANK FUEL SUMP   DRAIN VALVE	<u> </u>	4	1		28-11-07
DRAIN VALVE					
POPPET - SECONDARY, NO. 2 MAIN TANK FUEL SUMP DRAIN VALVE	I ·	5	1		28-11-07
DRAIN VALVE					
POPPET - SECONDARY, NO. 2 RESERVE TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE   POPPET - SECONDARY, NO. 3 RESERVE TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, NO. 3 RESERVE TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE   POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE   POPPET - SECONDARY, R CENTER WING TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, R WING SURGE TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, R WING SURGE TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, R WING SURGE TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, R WING SURGE TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, R WING SURGE TANK FUEL   SUMP DRAIN VALVE   POPPET - SECONDARY, R WING SURGE TANK FUEL   SUMP DRAIN VALVE   POPPET - NO. 1 MAIN TANK OVERWING FILL   9	· ·	5	1		28-11-07
SUMP DRAIN VALVE					
POPPET - SECONDARY, NO. 3 MAIN TANK FUEL SUMP DRAIN VALVE	<u> </u>	5	1		28-11-07
DRAIN VALVE		_			
POPPET - SECONDARY, NO. 3 RESERVE TANK FUEL SUMP DRAIN VALVE   POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE   POPPET - SECONDARY, R. CENTER WING TANK FUEL SUMP DRAIN VALVE   POPPET - SECONDARY, R. CENTER WING TANK FUEL SUMP DRAIN VALVE   POPPET - SECONDARY, R. CENTER WING TANK FUEL SUMP DRAIN VALVE   POPPET - SECONDARY, R. WING SURGE TANK FUEL SUMP PORT - NO. 1 MAIN TANK OVERWING FILL   4		5	1		28-11-07
SUMP DRAIN VALVE POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R CENTER WING TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R CENTER WING TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP PORT - NO. 1 MAIN TANK OVERWING FILL PORT - NO. 2 MAIN TANK OVERWING FILL PORT - NO. 3 MAIN TANK OVERWING FILL PORT - NO. 4 MAIN TANK OVERWING FILL PUMP - FUEL SCAVENGE, M810 RECEIVER - SCAVENGE PUMP RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL B, R7397 SENSOR - FUEL QUANTITY SINGLE POINT SENSOR - RESERVE TANK TRANSFER SINGLE POINT SENSOR - RESERVE TANK TRANSFER SINGLE POINT SENSOR - RESERVE TANK TRANSFER MAIN 1 AND 4, S5  SURCE TANK 4 1 1 655AB, R FRONT SPAR TO REAR SPAR SURGE TANK 544BB, L FRONT SPAR TO MID SPAR OUTBD MAIN TANK 544AB, L FRONT SPAR TO MID SPAR SURGE TANK 655AB, R FRONT SPAR TO MID SPAR SURGE TANK 645BB, R FRONT SPAR TO MID SPAR SURGE TANK 645BB, R MID SPAR TO REAR SPAR SURGE TANK 645BB, R MID SPAR TO REAR SPAR 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		l _			
POPPET - SECONDARY, NO. 4 MAIN TANK FUEL SUMP DRAIN VALVE	· ·	5	1		28-11-07
DRAIN VALVE		l _			
POPPET - SECONDARY, R CENTER WING TANK FUEL SUMP DRAIN VALVE POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP PORT - NO. 1 MAIN TANK OVERWING FILL   4		5	1		28-11-07
SUMP DRAIN VALVE		١.			28-11-07
POPPET - SECONDARY, R WING SURGE TANK FUEL SUMP   SURGE TANK FUEL SUMP   SURGE TANK   SURGE TA	· · · · · · · · · · · · · · · · · · ·	4	1	131E2, L CENTER SECTION WING BOX	201107
SUMP PORT - NO. 1 MAIN TANK OVERWING FILL  9 1 5448B, L FRONT SPAR TO MID SPAR OUTBD MAIN TANK PORT - NO. 2 MAIN TANK OVERWING FILL  9 1 5444B, L FRONT SPAR TO MID SPAR 18-11-05 INBD MAIN TANK PORT - NO. 3 MAIN TANK OVERWING FILL  9 1 6558B, R FRONT SPAR TO MID SPAR 18-11-05 INBD MAIN TANK PORT - NO. 4 MAIN TANK OVERWING FILL  9 1 6558B, R FRONT SPAR TO MID SPAR 18-11-05 INBD MAIN TANK OUTBD MAIN TANK 646BB, R FRONT SPAR TO MID SPAR 28-11-05 OUTBD MAIN TANK OUTBD MAIN TANK 28-11-05 OUTBD MAIN TANK 28-15-00 OUTBD MAIN TANK 28-15-00 OUTBD MAIN TANK 28-15-00 OUTBD MAIN TANK 28-15-00 CENTER SECTION WING BOX  RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT SENSOR - FUEL QUANTITY SINGLE POINT SENSOR - RESERVE TANK TRANSFER SINGLE POINT SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 1 FLT COMPT, P5, MISC SWITCH PANEL, M7317		١,			28-11-07
PORT - NO. 1 MAIN TANK OVERWING FILL         9         1         546BB, L FRONT SPAR TO MID SPAR OUTBD MAIN TANK         28-11-05           PORT - NO. 2 MAIN TANK OVERWING FILL         9         1         544AB, L FRONT SPAR TO MID SPAR INBD MAIN TANK         28-11-05           PORT - NO. 3 MAIN TANK OVERWING FILL         9         1         544AB, L FRONT SPAR TO MID SPAR INBD MAIN TANK         28-11-05           PORT - NO. 4 MAIN TANK OVERWING FILL         9         1         646BB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK         28-11-05           PUMP - FUEL SCAVENGE, M810         1         1         646BB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK         28-11-05           PUMP - FUEL SCAVENGE, M810         1         1         131AZ,131BZ,131CZ,131DZ, L         28-15-00           RECEIVER - SCAVENGE PUMP         18         1         1         131AZ,131BZ,131CZ,131DZ, L         28-15-02           RELAY - (REF 31-01-36, FIG. 101)         MAIN TANK TRANSFER VALVE CONTROL A, R7389         RESERVE TANK TRANSFER VALVE CONTROL B, R7390         1         1         131AZ,131BZ, L CENTER SECTION WING BOX         2         1         131AZ,131BZ, L CENTER SECTION WING BOX         28-17-09         28-17-09         2         131AZ,131BZ, L CENTER SECTION WING BOX         28-17-09         28-17-09         28-17-09         2         131AZ,131BZ, L CENTER SECTION WING BOX         28-17-09	I ·	4	1		
PORT - NO. 2 MAIN TANK OVERWING FILL  PORT - NO. 3 MAIN TANK OVERWING FILL  PORT - NO. 4 MAIN TANK OVERWING FILL  PORT - NO. 5 MAIN TANK OVERWING FILL  PORT - NO. 6 MAIN TANK OVERWING FILL  PORT - NO. 6 MAIN TANK OVERWING FILL  PORT - NO. 6 MAIN TANK OVERWING FILL  PORT - NO. 7 MAIN TANK OVERWING FILL  PORT - NO. 8 MAIN TANK OVERWING FILL  PORT - NO. 9 MAIN TANK  655AB, R FRONT SPAR TO MID SPAR  646BB, R FRONT SPAR TO MID SPAR  28-11-05  OUTBD MAIN TANK  655AB, R FRONT SPAR TO MID SPAR  28-11-05  OUTBD MAIN TANK  1 SA4AB, L FRONT SPAR TO MID SPAR  28-11-05  OUTBD MAIN TANK  28-11-05  O					00.44.05
PORT - NO. 2 MAIN TANK OVERWING FILL         9         1         544AB, L FRONT SPAR TO MID SPAR INBD MAIN TANK         28-11-05           PORT - NO. 3 MAIN TANK OVERWING FILL         9         1         655AB, R FRONT SPAR TO MID SPAR INBD MAIN TANK         28-11-05           PORT - NO. 4 MAIN TANK OVERWING FILL         9         1         646BB, R FRONT SPAR TO MID SPAR OUT SPAR TO MID SPAR OUT SPAR TO MID SPAR INBD MAIN TANK         28-11-05           PUMP - FUEL SCAVENGE, M810         1         1         28-15-00           RECEIVER - SCAVENGE PUMP         18         1         131AZ,131BZ,131CZ,131DZ, L         28-15-00           RELAY - (REF 31-01-36, FIG. 101)         MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL A, R7389         RESERVE TANK TRANSFER VALVE CONTROL B, R7390         CAVENGE PUMP, R296         RELAY - (REF 31-01-39, FIG. 101)           MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL A, GREAT - (REF 31-01-39, FIG. 101)         2         131AZ,131BZ, L CENTER SECTION WING BOX           SENSOR - FUEL QUANTITY SINGLE POINT         2         131AZ,131BZ, L CENTER SECTION WING BOX         28-17-09           SENSOR - RESERVE TANK TRANSFER SINGLE POINT         2         131AZ,131BZ, L CENTER SECTION WING BOX         28-16-07           SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5         1         FLT COMPT, P5, MISC SWITCH PANEL, *         *	PORT - NO. 1 MAIN TANK OVERWING FILL	9	1	•	28-11-05
PORT - NO. 3 MAIN TANK OVERWING FILL  PORT - NO. 4 MAIN TANK OVERWING FILL  PORT - NO. 4 MAIN TANK OVERWING FILL  PORT - NO. 4 MAIN TANK OVERWING FILL  PUMP - FUEL SCAVENGE, M810 RECEIVER - SCAVENGE PUMP  18 1 1 131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX  RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  INBD MAIN TANK 655AB, R FRONT SPAR TO MID SPAR 18 11 131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX  1 131AZ,131BZ, L CENTER SECTION WING BOX  2 131AZ,131BZ, L CENTER SECTION WING BOX  1 1 FLT COMPT, P5, MISC SWITCH PANEL, * M7317	DODT NO CAMAIN TANK OVERNAUNCELL	١ ,	,		00.44.05
PORT - NO. 3 MAIN TANK OVERWING FILL  9 1 655AB, R FRONT SPAR TO MID SPAR INBD MAIN TANK  PORT - NO. 4 MAIN TANK OVERWING FILL  9 1 646BB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK  PUMP - FUEL SCAVENGE, M810 RECEIVER - SCAVENGE PUMP  18 1 131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX  RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 655AB, R FRONT SPAR TO MID SPAR 28-11-05 OUTBD MAIN TANK  28-15-00 28-15-00 28-15-00 28-15-00 28-15-00 28-17-09 WING BOX  L AND R MID SPAR TO REAR SPAR INBD MAIN TANK  * HITCOMPT, P5, MISC SWITCH PANEL, * M7317	PORT - NO. 2 MAIN TANK OVERWING FILL	9	1		28-11-05
PORT - NO. 4 MAIN TANK OVERWING FILL  9 1 INBD MAIN TANK 646BB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK  28-15-00 28-15-00 28-15-02  RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  2 131AZ,131BZ, L CENTER SECTION WING BOX SENSOR - RESERVE TANK TRANSFER SINGLE POINT SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 FLT COMPT, P5, MISC SWITCH PANEL, * M7317	DODT NO 2 MAIN TANK OVERWING FILL		1		20 11 05
PORT - NO. 4 MAIN TANK OVERWING FILL  9 1 646BB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK  PUMP - FUEL SCAVENGE, M810 RECEIVER - SCAVENGE PUMP  18 1 131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX  RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  2 131AZ,131BZ, L CENTER SECTION WING BOX SENSOR - RESERVE TANK TRANSFER SINGLE POINT SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 FLT COMPT, P5, MISC SWITCH PANEL, * M7317	FORT - NO. 3 WAIN TANK OVERWING FILL	9	'		20-11-03
PUMP - FUEL SCAVENGE, M810 RECEIVER - SCAVENGE PUMP  18 1 131AZ,131BZ,131CZ,131DZ, L 28-15-00 28-15-02  RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  2 131AZ,131BZ, L CENTER SECTION WING BOX L AND R MID SPAR TO REAR SPAR INBD MAIN TANK SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5 1 FLT COMPT, P5, MISC SWITCH PANEL, M7317	PORT - NO 4 MAIN TANK OVERWING FILL	۱۵	1 1		28-11-05
PUMP - FUEL SCAVENGE, M810 RECEIVER - SCAVENGE PUMP  18 1 1 131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX  RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  2 131AZ,131BZ, L CENTER SECTION WING BOX L AND R MID SPAR TO REAR SPAR INBD MAIN TANK SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 FLT COMPT, P5, MISC SWITCH PANEL, M7317	FORT - NO. 4 IVIAIN TAIN OVERWING FILE	9	'	•	20-11-03
RECEIVER - SCAVENGE PUMP  18  1 131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX  RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 1 131AZ,131BZ,131DZ, L CENTER SECTION WING BOX  2 131AZ,131BZ, L CENTER SECTION WING BOX  2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK  * M7317	DIMP - FUEL SCAVENGE M810		1 1	OUTDD WAIN TANK	28-15-00
RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  CENTER SECTION WING BOX  1 1 51 AZ, 131BZ, L CENTER SECTION WING BOX L AND R MID SPAR TO REAR SPAR INBD MAIN TANK TINBD MAIN TANK  * M7317	<u> </u>	18		131A7 131B7 131C7 131D7 I	
RELAY - (REF 31-01-36, FIG. 101) MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  2 131AZ,131BZ, L CENTER SECTION WING BOX SENSOR - RESERVE TANK TRANSFER SINGLE POINT 2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5 1 FLT COMPT, P5, MISC SWITCH PANEL, * * * * * * * * * * * * * * * * * * *	RECEIVER - SCAVENGE I GIVII	10	'		20-13-02
MAIN TANK 1 JETTISON TRANSFER VALVE CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  2 131AZ,131BZ, L CENTER SECTION WING BOX SENSOR - RESERVE TANK TRANSFER SINGLE POINT 2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 FLT COMPT, P5, MISC SWITCH PANEL, M7317	RELAY - (REF 31-01-36 FIG. 101)			CENTER SECTION WING BOX	
CONTROL, R7388 RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 FLT COMPT, P5, MISC SWITCH PANEL, M7317					
RESERVE TANK TRANSFER VALVE CONTROL A, R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 FLT COMPT, P5, MISC SWITCH PANEL, M7317					
R7389 RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 131AZ,131BZ, L CENTER SECTION WING BOX L AND R MID SPAR TO REAR SPAR INBD MAIN TANK FLT COMPT, P5, MISC SWITCH PANEL, M7317					
RESERVE TANK TRANSFER VALVE CONTROL B, R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 131AZ,131BZ, L CENTER SECTION WING BOX 2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK 1 FLT COMPT, P5, MISC SWITCH PANEL, M7317					
R7390 SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 131AZ,131BZ, L CENTER SECTION WING BOX 2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK 1 FLT COMPT, P5, MISC SWITCH PANEL, M7317					
SCAVENGE PUMP, R296 RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 131AZ,131BZ, L CENTER SECTION WING BOX 2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK FLT COMPT, P5, MISC SWITCH PANEL, M7317	1				
RELAY - (REF 31-01-39, FIG. 101) MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 131AZ,131BZ, L CENTER SECTION WING BOX 2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK FLT COMPT, P5, MISC SWITCH PANEL, M7317					
MAIN TANK 4 JETTISON TRANSFER VALVE CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 131AZ,131BZ, L CENTER SECTION WING BOX 2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK 1 FLT COMPT, P5, MISC SWITCH PANEL, M7317	,				
CONTROL, R7387 SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 131AZ,131BZ, L CENTER SECTION WING BOX 2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK 1 FLT COMPT, P5, MISC SWITCH PANEL, M7317					
SENSOR - FUEL QUANTITY SINGLE POINT  SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 131AZ,131BZ, L CENTER SECTION WING BOX  2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK  1 FLT COMPT, P5, MISC SWITCH PANEL, M7317					
SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  WING BOX  L AND R MID SPAR TO REAR SPAR INBD MAIN TANK  FLT COMPT, P5, MISC SWITCH PANEL, M7317	I · · · · · · · · · · · · · · · · · · ·		2	131AZ,131BZ, L CENTER SECTION	28-17-09
SENSOR - RESERVE TANK TRANSFER SINGLE POINT  SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  2 L AND R MID SPAR TO REAR SPAR INBD MAIN TANK  1 FLT COMPT, P5, MISC SWITCH PANEL, M7317					
SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  INBD MAIN TANK  FLT COMPT, P5, MISC SWITCH PANEL, M7317  *	SENSOR - RESERVE TANK TRANSFER SINGLE POINT		2		28-16-07
SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5  1 FLT COMPT, P5, MISC SWITCH PANEL, * M7317					
M7317	SWITCH - FUEL TRANSFER MAIN 1 AND 4, S5		1		*
SWITCH - SCAVENGE PUMP PRESSURE	<u>'</u>				
, , , , , , , , , , , , , , , , , , , ,	SWITCH - SCAVENGE PUMP PRESSURE		1		*

<sup>\*</sup> SEE WDM EQUIPMENT LIST

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Storage - Component Index Figure 101 (Sheet 5)

Figure 5 28-10 Storage Component Index ( Sheet 5 )

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		1		
	FIG.			
COMPONENT	102	QTY	ACCESS/AREA	REFERENCE
	SHT			
TUBE - FUEL VENT, L WING SURGE TANK		1	556AB,556BB, L FRONT SPAR TO REAR SPAR SURGE TANK AND DRY BAY	28-13-03
TUBE - FUEL VENT, R WING SURGE TANK		1	656AB,656BB, R FRONT SPAR TO REAR SPAR SURGE TANK AND DRY BAY	28-13-03
UNIT - CENTER EFIS/EICAS INDICATION, M7352		1	E2-6	31-61-01
UNIT - L EFIS/EICAS INDICATION, M7353		1	E2-6	31-61-01
UNIT - MOTOR/IMPELLER, L HORIZONTAL		1	312A, R AREA AFT OF PRESSURE	28-17-04
STABILIZER TANK TRANSFER PUMP, M7862 UNIT - MOTOR/IMPELLER, R HORIZONTAL		1	BULKHEAD 312A, R AREA AFT OF PRESSURE	28-17-04
STABILIZER TANK TRANSFER PUMP, M7863			BULKHEAD	20 17 01
UNIT - MOTOR/IMPELLER, SCAVENGE PUMP, M818		1	L WING LANDING GEAR WELL	28-15-01
UNIT - R EFIS/EICAS INDICATION, M7351		1	E2-6	31-61-01
VALVE - CHECK, HORIZONTAL STABILIZER SURGE TANK DRAIN		1	R HORIZONTAL STABILIZER FUEL TANK	28-13-12
VALVE - CHECK, L WING SURGE TANK DRAIN	15	1	545BB, L MID SPAR TO REAR SPAR INBD MAIN TANK	28-13-04
VALVE - CHECK, R WING SURGE TANK DRAIN	15	1	645BB, R MID SPAR TO REAR SPAR INBD MAIN TANK	28-13-04
VALVE - CHECK, SCAVENGE DISCHARGE LINE		1	131AZ,131BZ,131CZ,131DZ, L	28-15-04
VALVE - DRAIN, HORIZONTAL STABILIZER SURGE TANK FUEL SUMP	14	1	CENTER SECTION WING BOX 361AB, R HORIZONTAL STABILIZER SURGE TANK	28-11-10
VALVE - DRAIN, INBD NO. 1 MAIN TANK FUEL VENT	14	1	546AB, L MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-11-21
VALVE - DRAIN, INBD NO. 2 MAIN TANK FUEL VENT	14	1	544AB, L MID SPAR TO REAR SPAR INBD MAIN TANK	28-13-01
VALVE - DRAIN, INBD NO. 3 MAIN TANK FUEL VENT	14	1	644AB, R MID SPAR TO REAR SPAR INBD MAIN TANK	28-13-01
VALVE - DRAIN, INBD NO. 4 MAIN TANK FUEL VENT	14	1	646AB, R MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-01
VALVE - DRAIN, L CENTER WING TANK FUEL SUMP	14	1	131EZ,131AZ, L CENTER SECTION WING BOX	28-13-01
VALVE - DRAIN, L CENTER WING TANK FUEL VENT	14	1	131EZ,131AZ,131BZ,131CZ, L CENTER SECTION WING BOX	28-13-01
VALVE - DRAIN, L HORIZONTAL STABILIZER TANK FUEL SUMP, V441	14	1	312A, L HORIZONTAL STABILIZER TORSION BOX COMPARTMENT	28-11-10
VALVE - DRAIN, L HORIZONTAL STABILIZER TANK FUEL VENT	14	1	338A2, L HORIZONTAL STABILIZER TORSION BOX	28-13-01
VALVE - DRAIN, L WING SURGE TANK FUEL SUMP	14	1	555AB, L FRONT SPAR TO REAR SPAR SURGE TANK	28-11-10
VALVE - DRAIN, MID NO. 1 MAIN TANK FUEL VENT	14	1	552AB, L MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-01
VALVE - DRAIN, MID NO. 4 MAIN TANK FUEL VENT	14	1	652AB, R MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-01
VALVE - DRAIN, NO. 1 MAIN TANK FUEL SUMP	14	1	545BB, L MID SPAR TO REAR SPAR INBD MAIN TANK	28-11-10
VALVE - DRAIN, NO. 2 MAIN TANK FUEL SUMP	14	1	544AB, L FRONT SPAR TO MID SPAR INBD MAIN TANK	28-11-10
VALVE - DRAIN, NO. 2 RESERVE TANK FUEL SUMP	14	1	552DB, L MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-11-10
VALVE - DRAIN, NO. 2 RESERVE TANK FUEL VENT	14	1	553AB, L FRONT SPAR TO REAR SPAR RESERVE TANK	28-13-01
VALVE - DRAIN, NO. 3 MAIN TANK FUEL SUMP	14	1	644AB, R FRONT SPAR TO MID SPAR INBD MAIN TANK	28-11-10

Storage - Component Index Figure 101 (Sheet 6)

Figure 6 28-10 Storage Component Index ( Sheet 6 )



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001/001/01/07	FIG.			
COMPONENT	102	QTY	ACCESS/AREA	REFERENCE
	SHT			
VALVE - DRAIN, NO. 3 RESERVE TANK FUEL SUMP	14	1	652DB, R MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-11-10
VALVE - DRAIN, NO. 3 RESERVE TANK FUEL VENT	14	1	653AB, R FRONT SPAR TO REAR SPAR RESERVE TANK	28-13-01
VALVE - DRAIN, NO. 4 MAIN TANK FUEL SUMP	14	1	645BB, R MID SPAR TO REAR SPAR INBD MAIN TANK	28-11-10
VALVE - DRAIN, OUTBD NO. 1 MAIN TANK FUEL VENT	14	1	552FB, 552GB, L MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-01
VALVE - DRAIN, OUTBD NO. 2 MAIN TANK FUEL VENT	14	1	545BB, L MID SPAR TO REAR SPAR INBD MAIN TANK	28-13-01
VALVE - DRAIN, OUTBD NO. 3 MAIN TANK FUEL VENT	14	1	645BB, R MID SPAR TO REAR SPAR INBD MAIN TANK	28-13-01
VALVE - DRAIN, OUTBD NO. 4 MAIN TANK FUEL VENT	14	1	652FB,652GB, R MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-01
VALVE - DRAIN, R CENTER WING TANK FUEL SUMP	14	1	131EZ,131AZ, CENTER SECTION WING BOX	28-11-10
VALVE - DRAIN, R CENTER WING TANK FUEL VENT	14	1	131EZ,131AZ,131BZ,132AZ,132BZ CENTER SECTION WING BOX	28-13-01
VALVE - DRAIN, R HORIZONTAL STABILIZER TANK FUEL SUMP, V463	14	1	312A, R STABILIZER TORSION BOX COMPARTMENT	28-11-21
VALVE - DRAIN, R HORIZONTAL STABILIZER TANK FUEL VENT	14	1	338AZ, R HORIZONTAL STABILIZER TORSION BOX	28-13-01
VALVE - DRAIN, R WING SURGE TANK	14	1	655AB, R FRONT SPAR TO REAR SPAR SURGE TANK	28-11-10
VALVE - FLOAT, HORIZONTAL STABILIZER FUEL VENT CHANNEL	14	1	343JZ, R HORIZONTAL STABILIZER FUEL TANK	28-13-02
VALVE - FLOAT, HORIZONTAL STABILIZER TANK	14	1	338AZ, L HORIZONTAL STABILIZER FUEL TANK	28-13-13
VALVE - FLOAT, L CENTER WING TANK FUEL VENT	14	1	131EZ, 131AZ, 131BZ, 131CZ, L CENTER SECTION WING BOX	28-13-02
VALVE - FLOAT, NO. 2 MAIN TANK FUEL VENT	14	2	545BB, L MID SPAR TO REAR SPAR INBD MAIN TANK	28-13-02
VALVE - FLOAT, NO. 2 RESERVE TANK FUEL VENT	14	1	553KB, L FRONT SPAR TO REAR SPAR RESERVE TANK	28-13-02
VALVE - FLOAT, NO. 3 MAIN TANK FUEL VENT	14	2	645BB, R MID SPAR TO REAR SPAR INBD MAIN TANK	28-13-02
VALVE - FLOAT, NO. 3 RESERVE TANK FUEL VENT	14	1	653KB, R FRONT SPAR TO REAR SPAR RESERVE TANK	28-13-02
VALVE - FLOAT, MID NO. 1 MAIN TANK FUEL VENT	14	2	552AB, L MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-02
VALVE - FLOAT, MID NO. 4 MAIN TANK FUEL VENT	14	2	652AB, R MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-02
VALVE - FLOAT, OUTBD NO. 1 MAIN TANK FUEL VENT	14	2	552GB, L MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-02
VALVE - FLOAT, OUTBD NO. 4 MAIN TANK FUEL VENT	14	2	652GB, R MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-13-02
VALVE - PITOT FLOAT	21	2	131AZ,131BZ,132AZ, CENTER SECTION WING BOX	28-17-08
VALVE - PRESSURE RELIEF, HORIZONTAL STABILIZER SURGE TANK	3	1	361BB, R HORIZONTAL STABILIZER SURGE TANK	28-13-10
VALVE - PRESSURE RELIEF, L WING SURGE TANK	2	1	555AB, L FRONT SPAR TO REAR SPAR SURGE TANK	28-13-05
VALVE - PRESSURE RELIEF, R WING SURGE TANK	2	1	655AB, R FRONT SPAR TO REAR SPAR SURGE TANK	28-13-05

Storage - Component Index Figure 101 (Sheet 7)

Figure 7 28-10 Storage Component Index ( Sheet 7 )

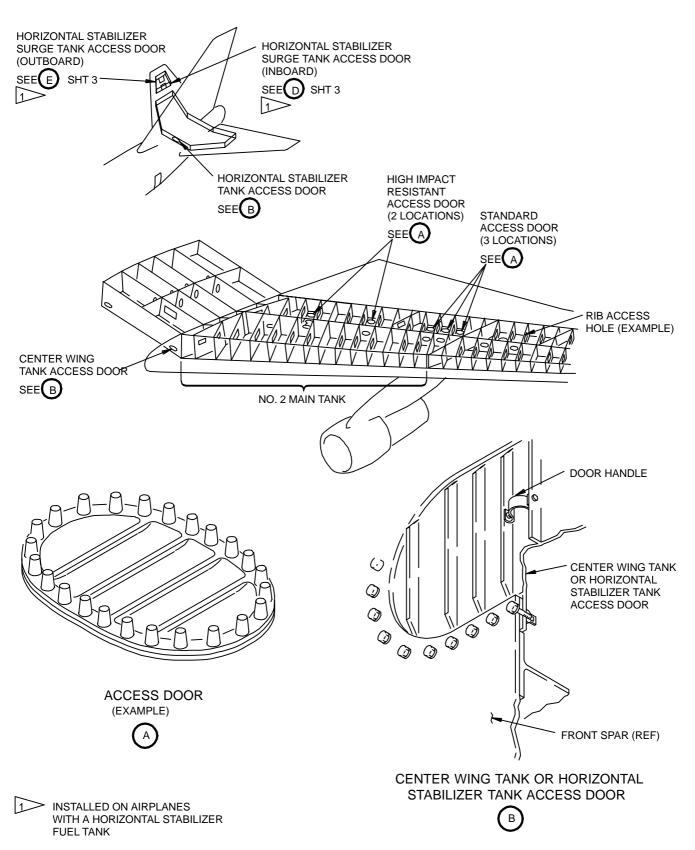


COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
VALVE - REFUEL, L CENTER WING TANK SECONDARY	21	1	131AZ,131BZ,131CZ,131DZ, L CENTER SECTION WING BOX	28-17-07
VALVE - REFUEL, R CENTER WING TANK SECONDARY	21	1	131AZ,131BZ,132AZ,132BZ, R CENTER SECTION WING BOX	28-17-07

Storage - Component Index Figure 101 (Sheet 8)

Figure 8 28-10 Storage Component Index ( Sheet 8 )

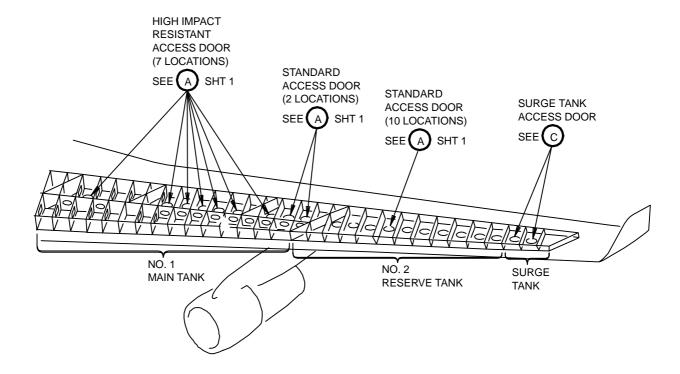
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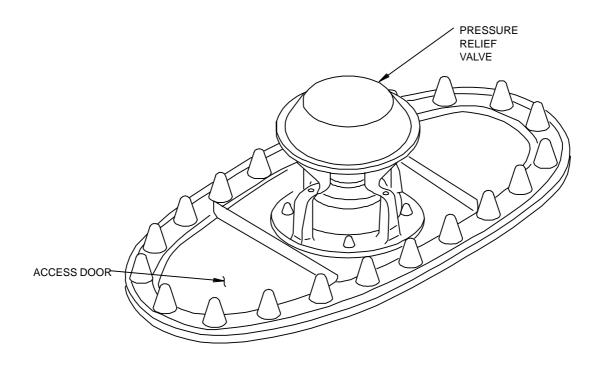


Storage - Component Location Figure 102 (Sheet 1)

Figure 9 28-10 Storage Component Location (Sheet 1)







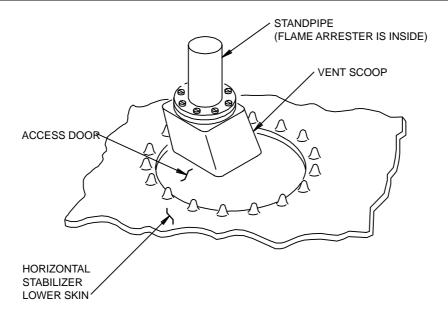
SURGE TANK ACCESS DOOR (EXAMPLE)



Storage - Component Location Figure 102 (Sheet 2)

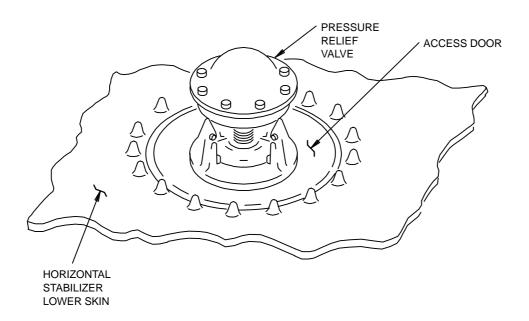
Figure 10 28-10 Storage Component Location (Sheet 2)

### **Practical Training Handbook**



HORIZONTAL STABILIZER SURGE TANK ACCESS DOOR (INBOARD)





HORIZONTAL STABILIZER SURGE TANK ACCESS DOOR (OUTBOARD)



Storage - Component Location (Details from Sheet 1) Figure 102 (Sheet 3)

Figure 11 28-10 Storage Component Location (Sheet 3)



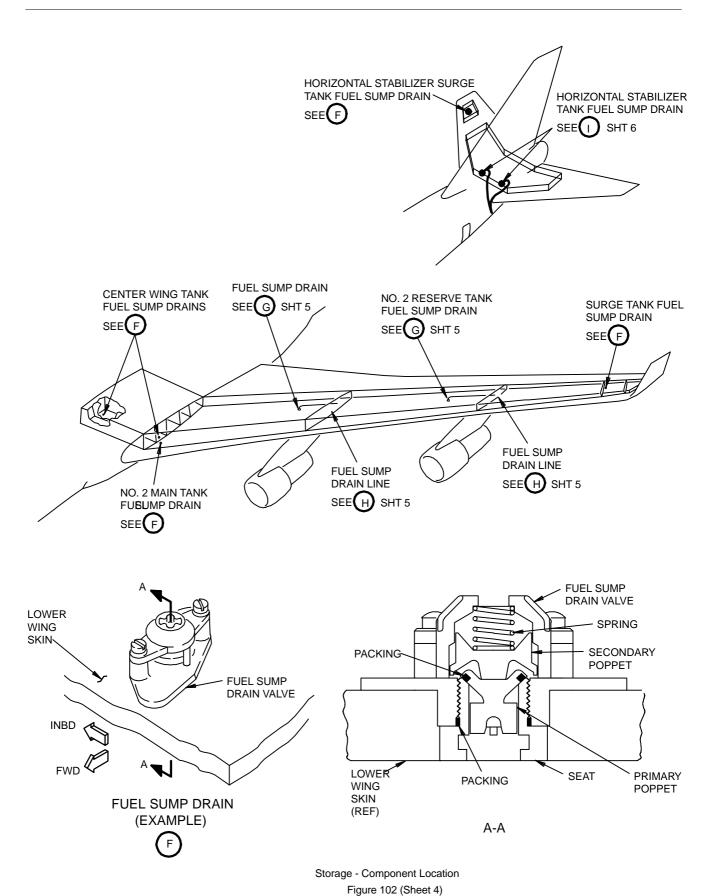


Figure 12 28-10 Storage Component Location (Sheet 4)

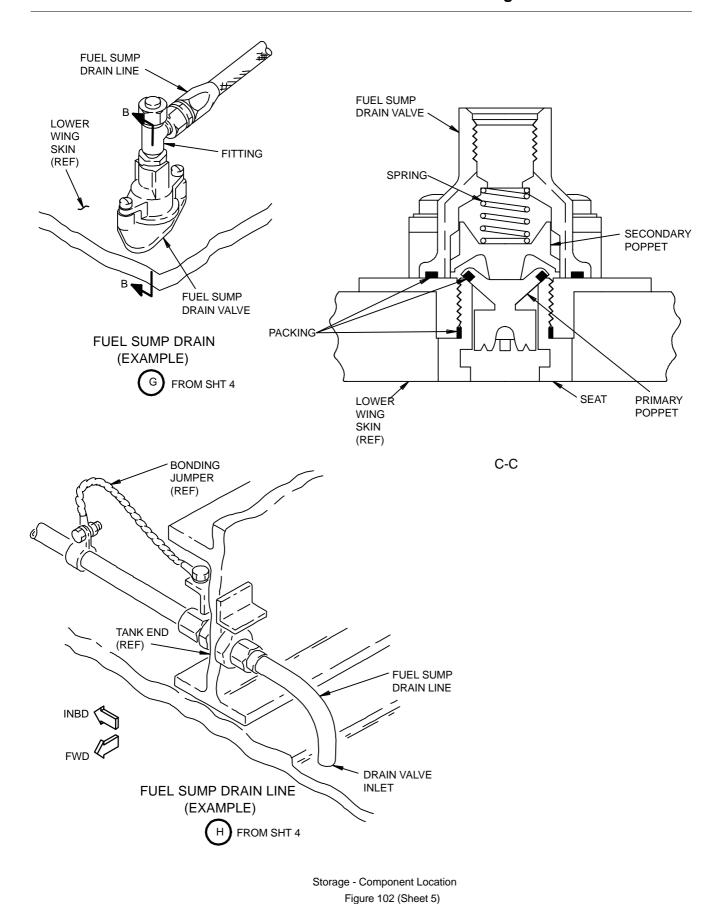


Figure 13 28-10 Storage Component Location (Sheet 5)

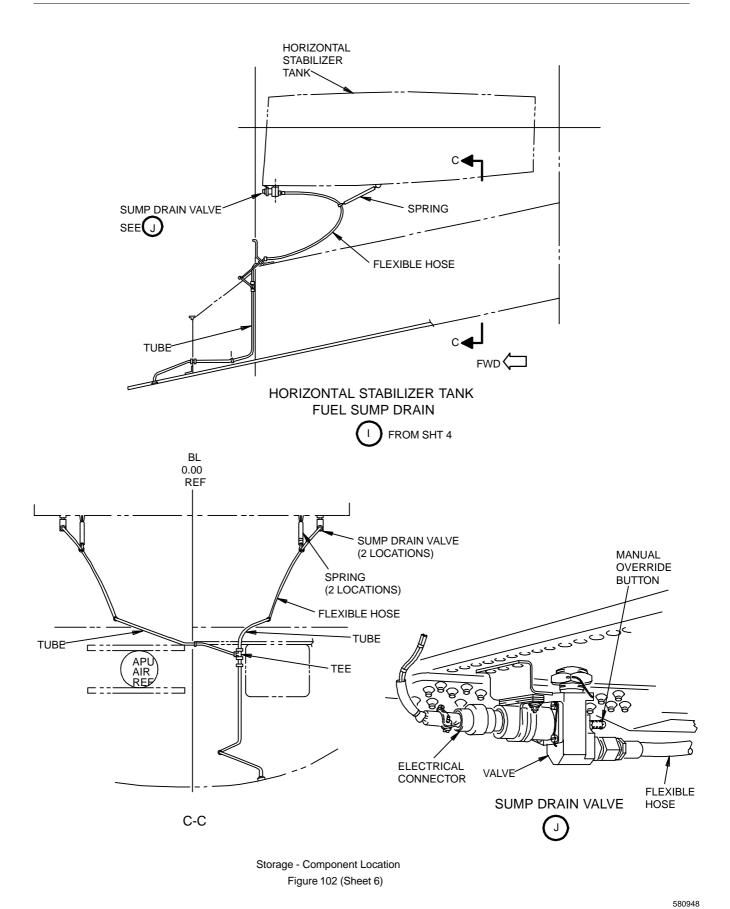
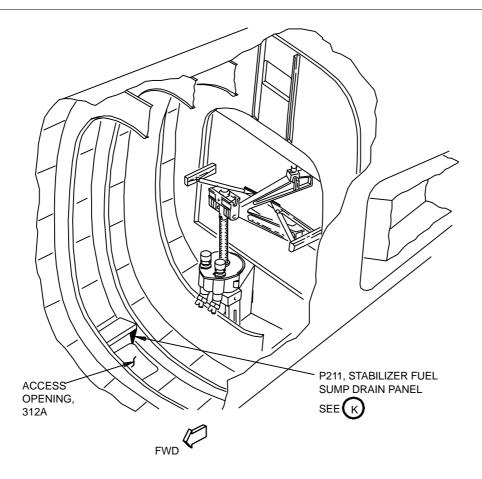
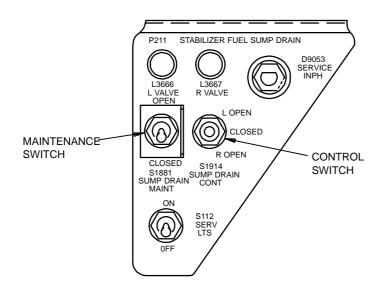


Figure 14 28-10 Storage Component Location (Sheet 6)





P211, STABILIZER FUEL SUMP DRAIN PANEL



Storage - Component Location Figure 102 (Sheet 7)

Figure 15 28-10 Storage Component Location (Sheet 7)



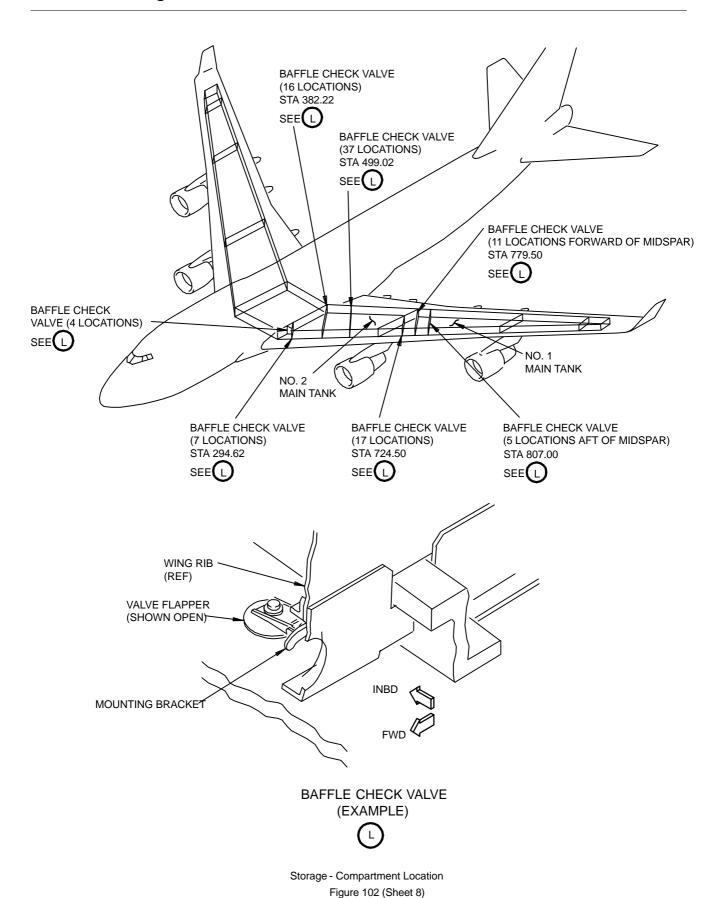
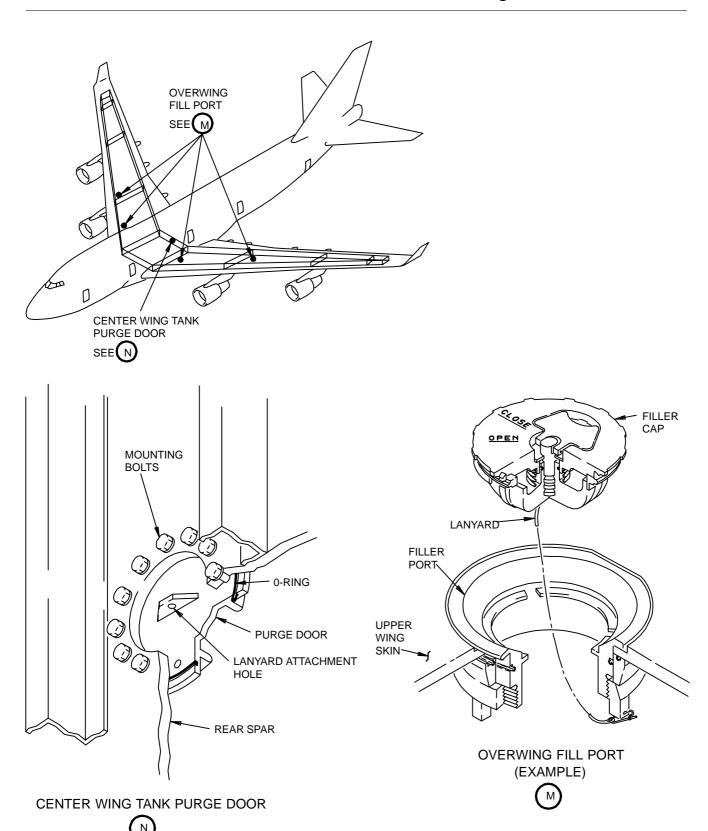


Figure 16 28-10 Storage Component Location (Sheet 8)

Nur zur Schulung



Storage - Component Location Figure 102 (Sheet 9)

Figure 17 28-10 Storage Component Location (Sheet 9)

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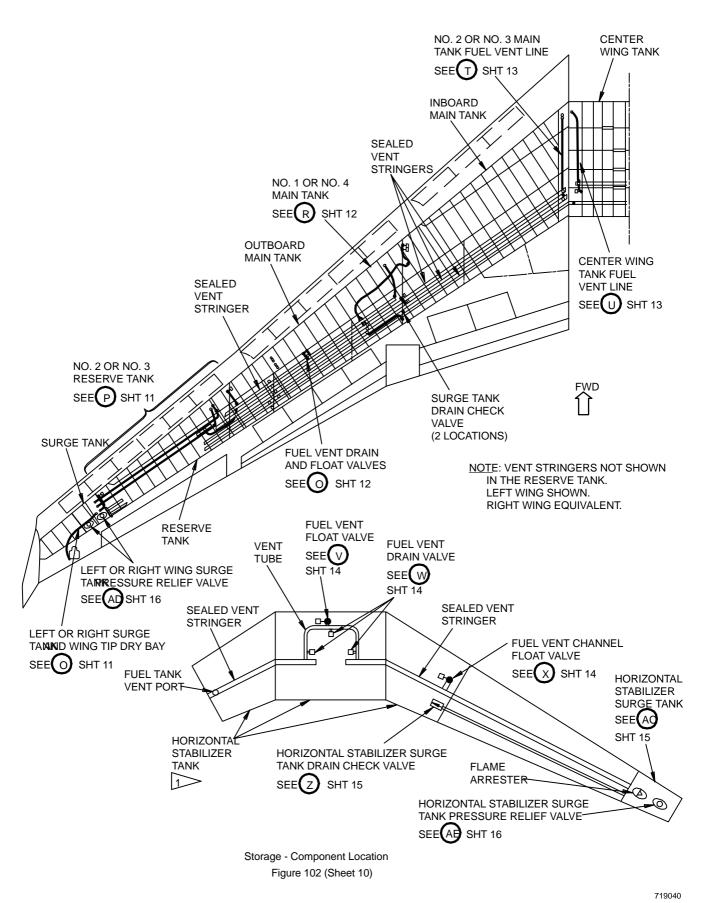
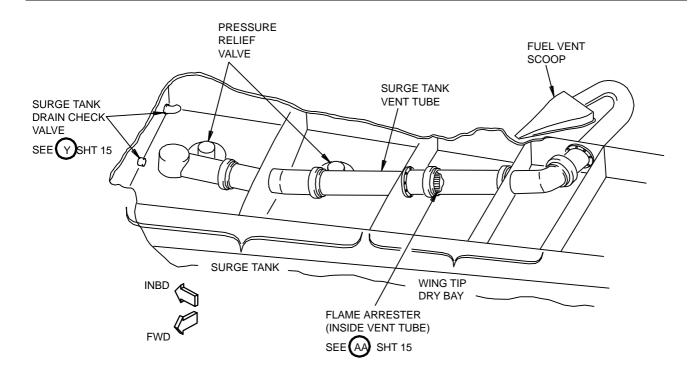


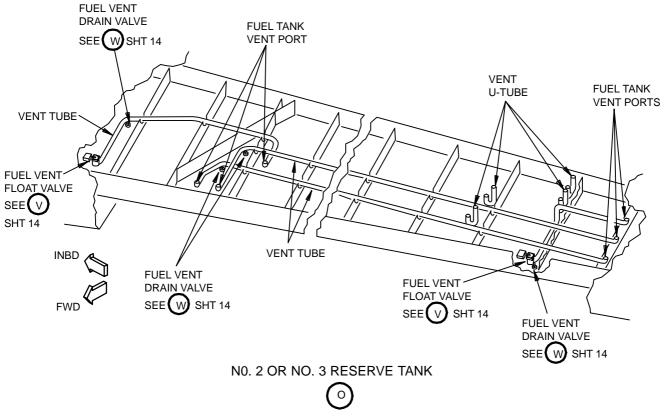
Figure 18 28-10 Storage Component Location (Sheet 10)

Nur zur Schulung



LEFT OR RIGHT SURGE TANK AND WING TIP DRY BAY

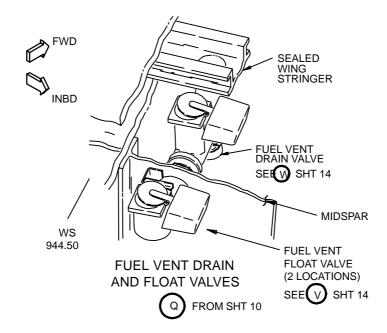


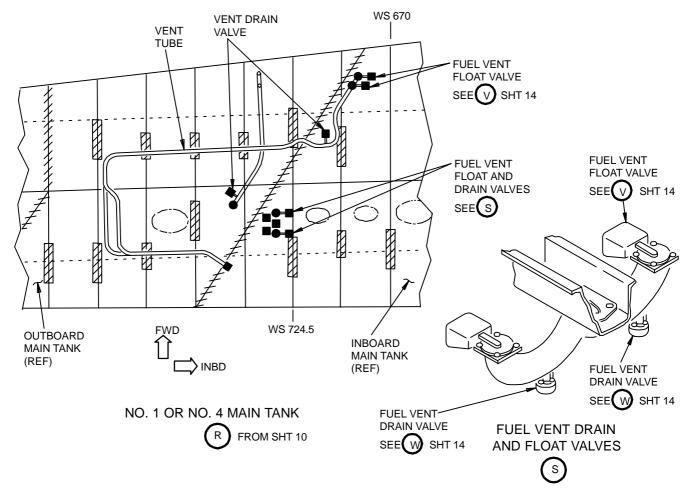


Storage - Component Location (Details from Sht 10) Figure 102 (Sheet 11)

Figure 19 28-10 Storage Component Location (Sheet 11)







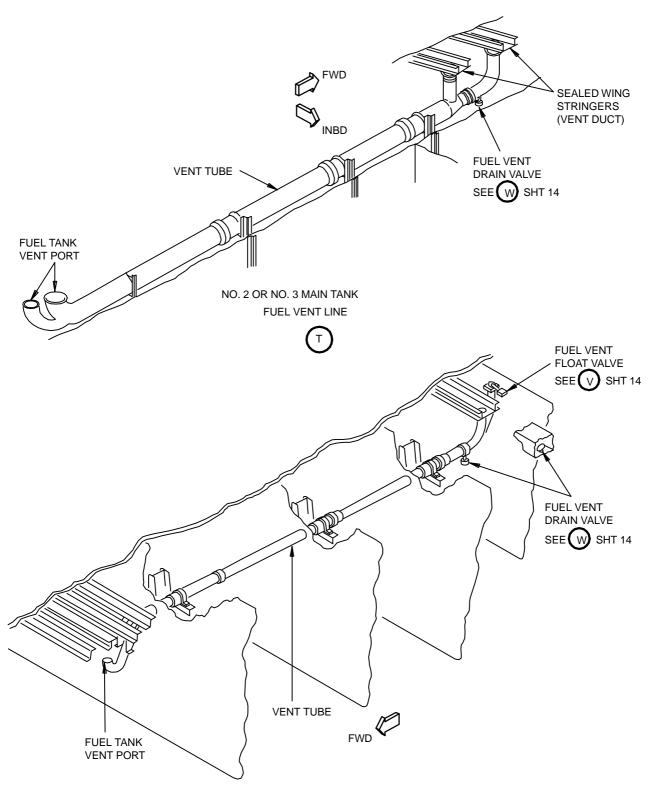
Storage - Component Location Figure 102 (Sheet 12)

Figure 20 28-10 Storage Component Location (Sheet 12)

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Nur zur Schulung

## **Practical Training Handbook**



CENTER WING TANK FUEL VENT LINE

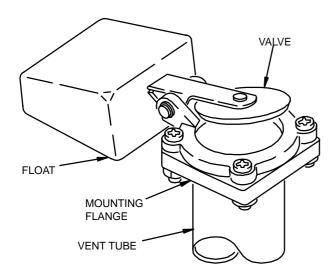


Storage - Component Location (Details From Sht 10)

Figure 102 (Sheet 13)

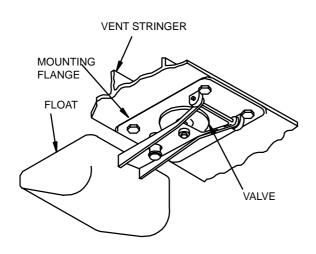
Figure 21 28-10 Storage Component Location (Sheet 13)





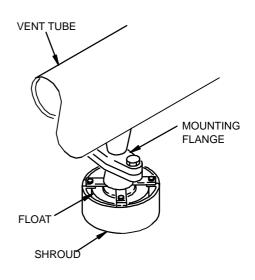
FUEL VENT FLOAT VALVE

V FROM SHT 10,11,12, AND 13



FUEL VENT CHANNEL FLOAT VALVE (INSTALLED IN HORIZONTAL STABILIZER TANK)





FUEL VENT DRAIN VALVE

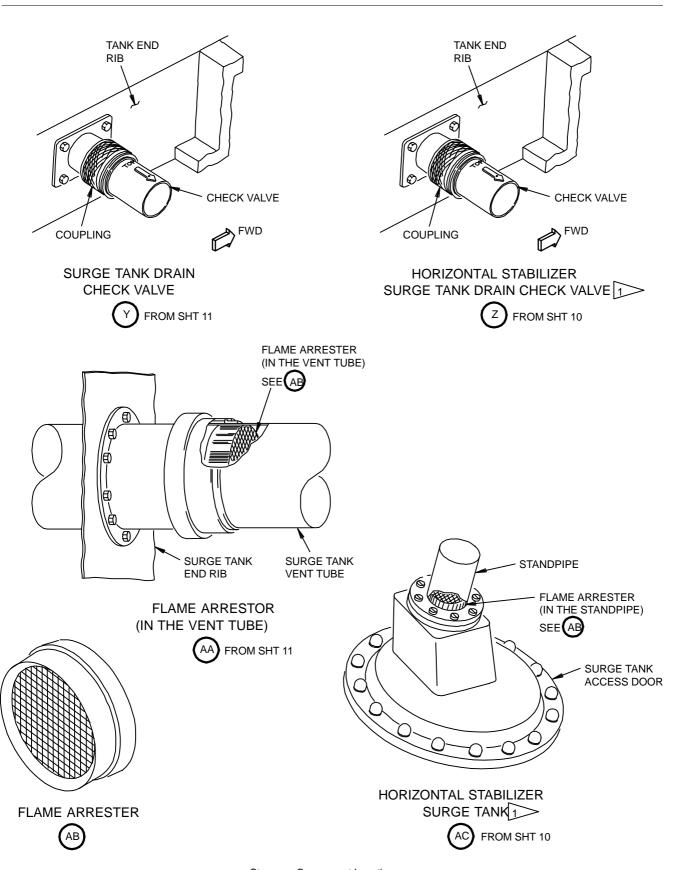
W FROM SHT 10,11,12 AND 13

Storage - Component Location Figure 102 (Sheet 14)

Figure 22 28-10 Storage Component Location (Sheet 14)



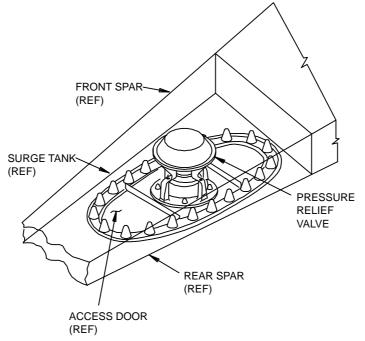
## **Practical Training Handbook**



Storage - Component Location Figure 102 (Sheet 15)

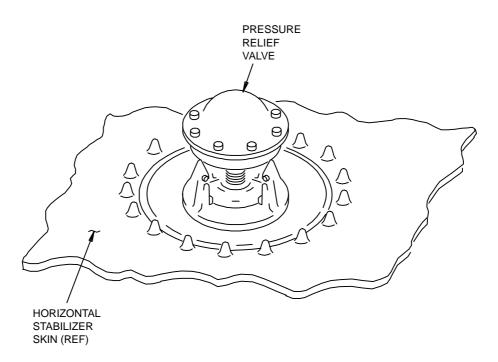
Figure 23 28-10 Storage Component Location (Sheet 15)





LEFT OR RIGHT WING SURGE TANK PRESSURE RELIEF VALVE





HORIZONTAL STABILIZER SURGE TANK
PRESSURE RELIEF VALVE

AE

Storage - Component Location (Details from Sht 10) Figure 102 (Sheet 16)

Figure 24 28-10 Storage Component Location (Sheet 16)

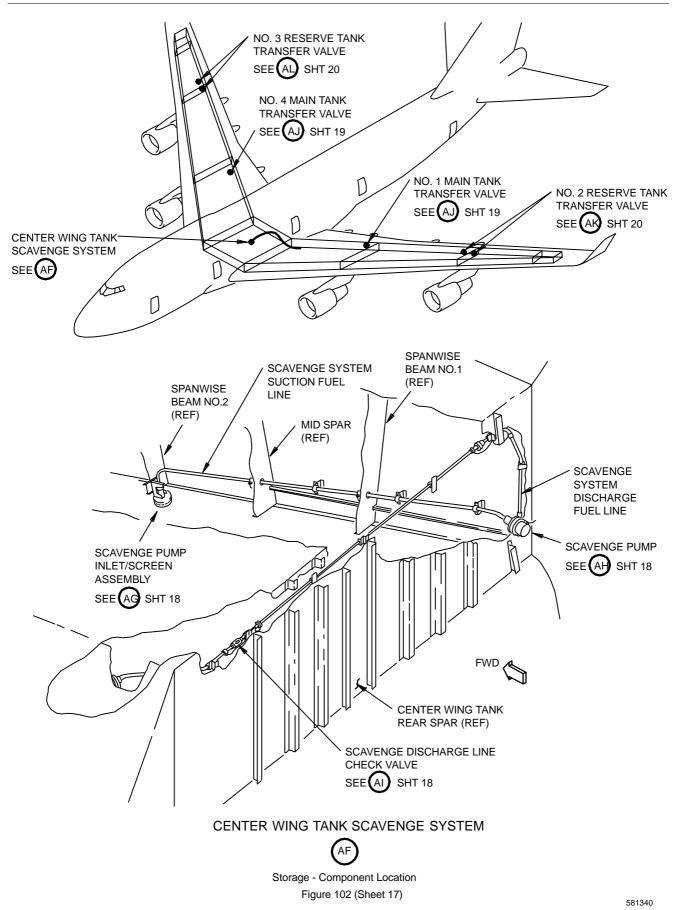


Figure 25 28-10 Storage Component Location (Sheet 17)

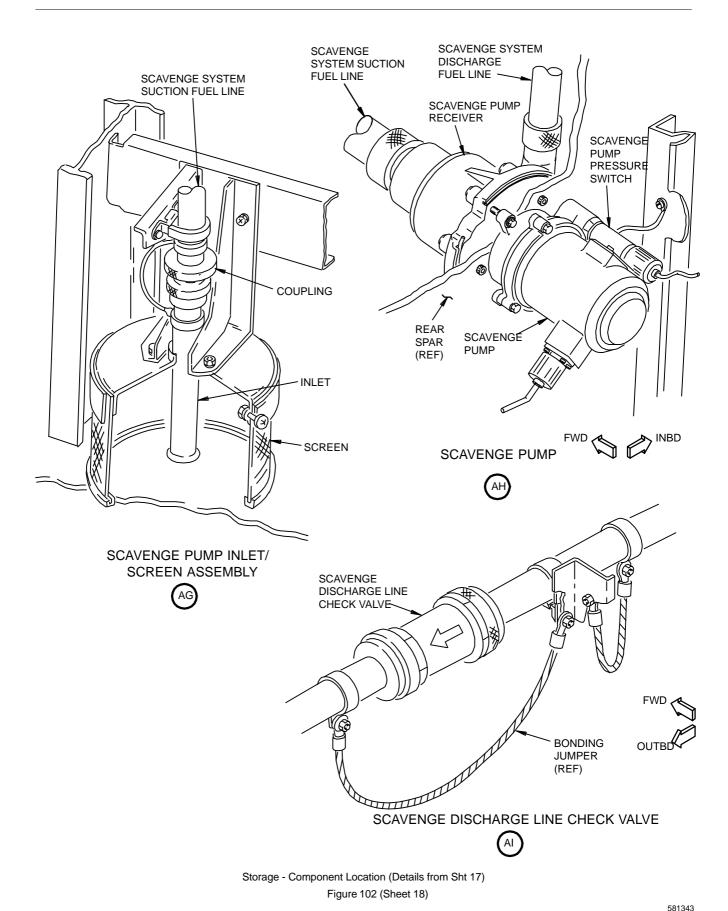
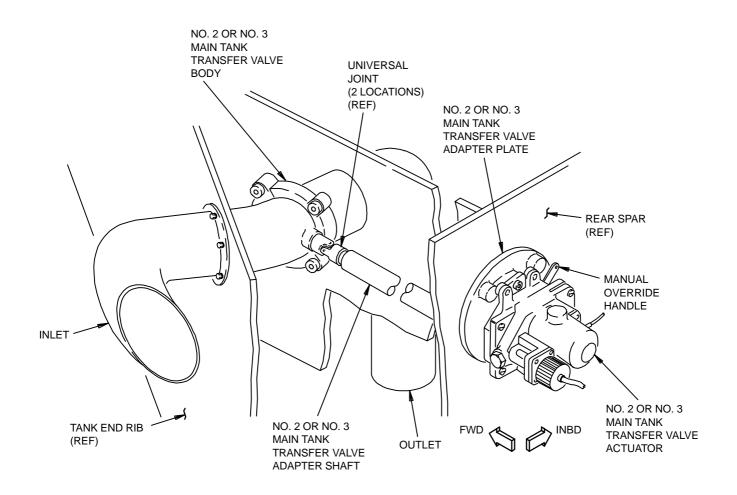


Figure 26 28-10 Storage Component Location (Sheet 18)

Lufthansa
TECHNISCHE SCHULUNG



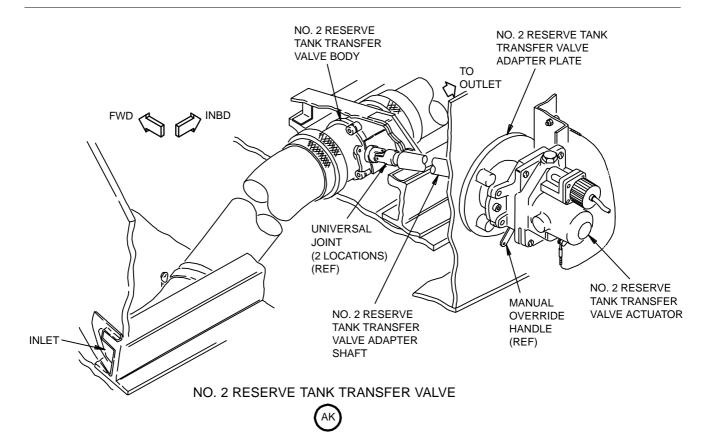
NO. 1 OR NO. 4 MAIN TANK TRANFER VALVE

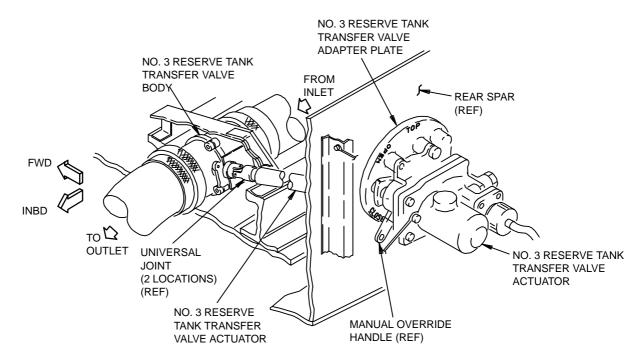


Storage - Component Location (Detail from Sht 17) Figure 102 (Sheet 19)

Figure 27 28-10 Storage Component location (Sheet 19)







#### NO. 3 RESERVE TANK TRANSFER VALVE



Storage - Component Location (Details from Sht 17)

Figure 102 (Sheet 20)

Figure 28 28-10 Storage Component Location (Sheet 20)



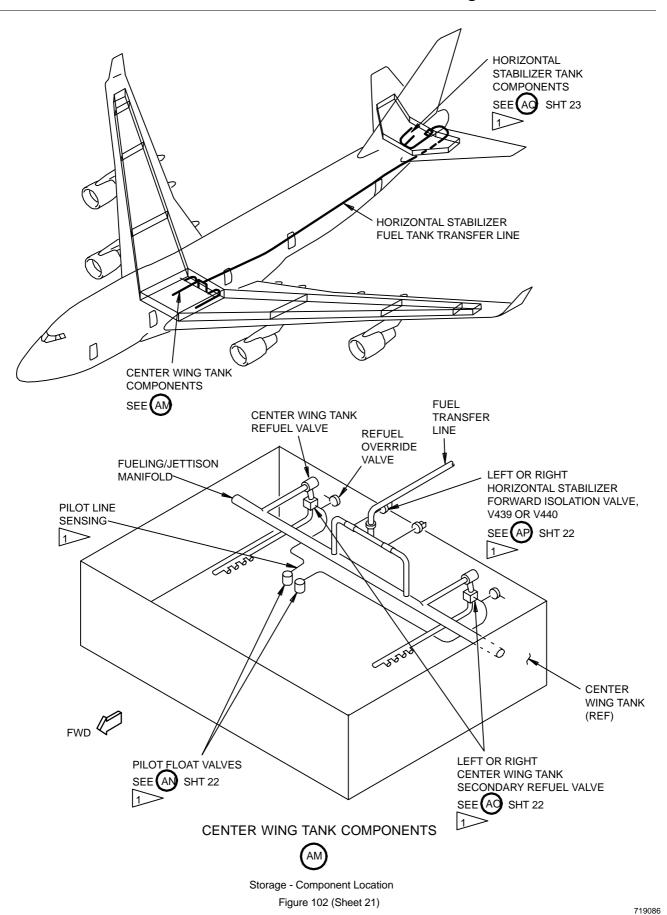
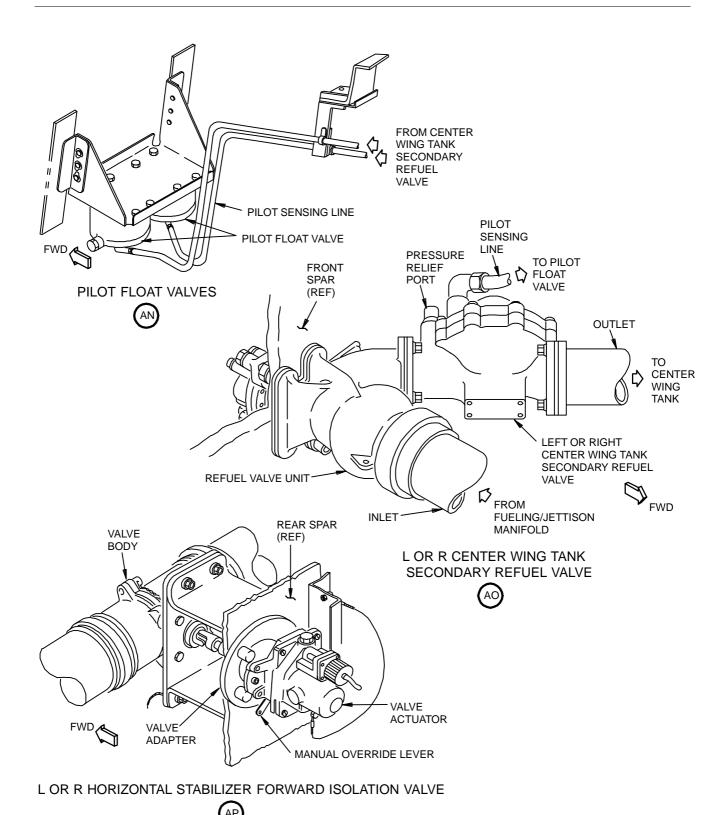


Figure 29 28-10 Storage Component Location (Sheet 21)





Storage - Component Location (Details from Sht 21) Figure 102 (Sheet 22)

Figure 30 28-10 Storage Component Location ( Sheet 22 )



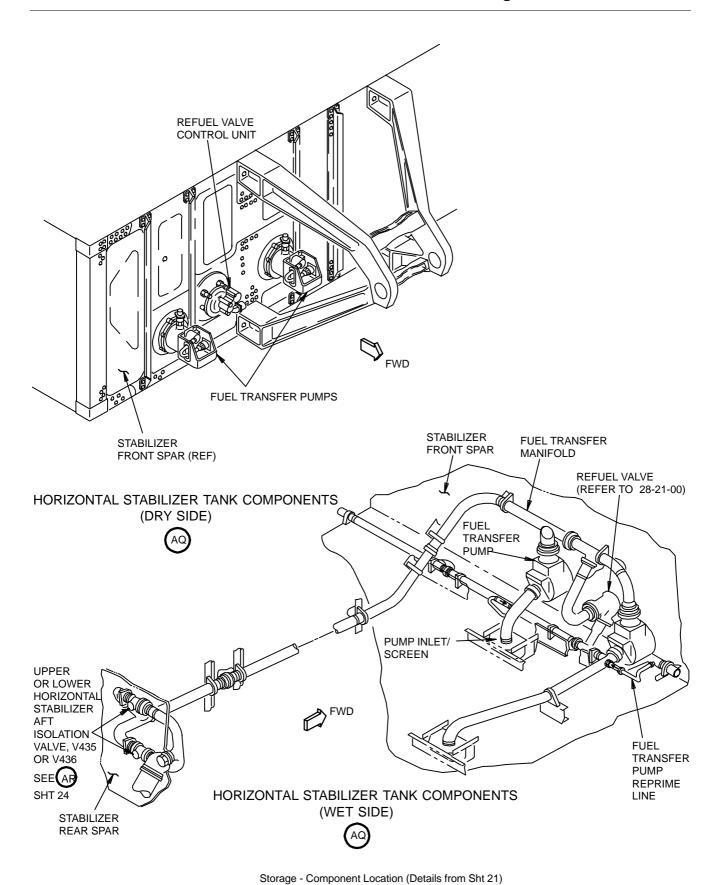
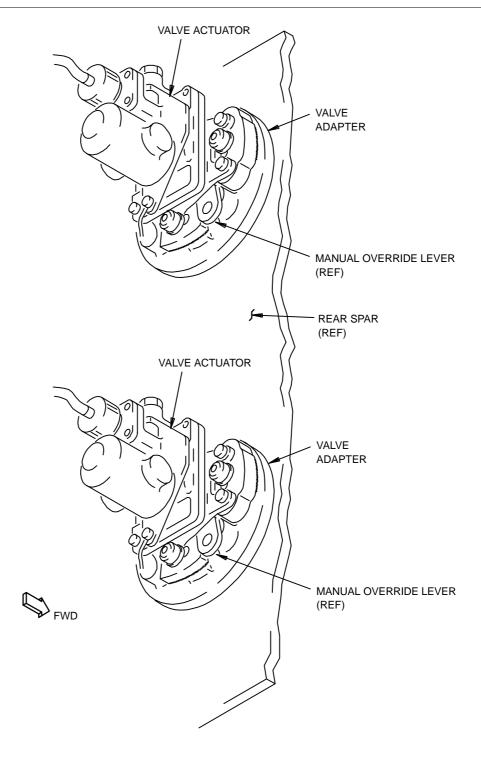


Figure 31 28-10 Storage Component Location (Sheet 23)

Figure 102 (Sheet 23)

Lufthansa
TECHNISCHE SCHULUNG

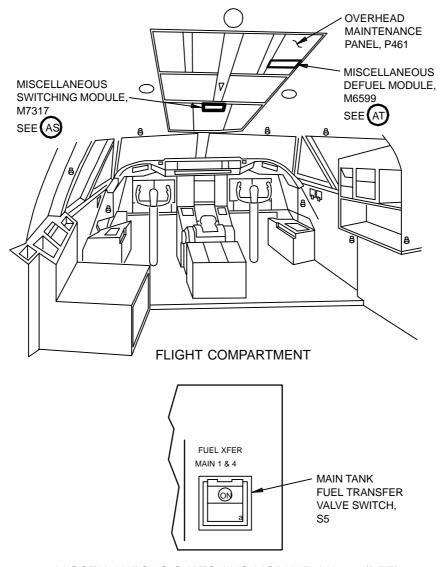


HORIZONTAL STABILIZER AFT ISOLATION VALVE



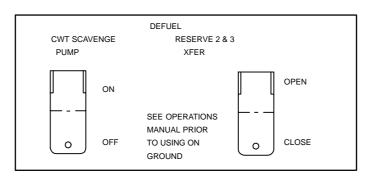
Storage - Component Location (Detail from Sht 23) Figure 102 (Sheet 24)

Figure 32 28-10 Storage Component Location (Sheet 24)



MISCELLANEOUS SWITCHING MODULE, M7317 (REF)





MISCELLANEOUS DEFUEL MODULE, M6599



Storage - Component Location Figure 102 (Sheet 25)

Figure 33 28-10 Storage Component Location (Sheet 25)



# ATA 28-20 PRESSURE FUELING SYSTEM

**COMPONENT INDEX AND LOCATION** 



#### PRESSURE FUELING SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ADAPTER - LEFT WING FUELING RECEPTACLE		2	521BB, LEFT LEADING EDGE TO FRONT SPAR	28-21-14
ADAPTER - RIGHT WING FUELING RECEPTACLE		2	621BB, RIGHT LEADING EDGE TO	28-21-14
CARD - FUEL JETTISON CONTROL A, A12		1	FRONT SPAR LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD	*
CARD - FUEL JETTISON CONTROL B, A13		1	FILE, M7852 LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD FILE, M7852	*
CARD - FUEL SYSTEM EICAS INTERFACE MAIN, A10		1	LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD	*
CARD - FUEL SYSTEM EICAS INTERFACE SLAVE, A11		1	FILE, M7852 LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD	*
CARD - FUEL SYSTEM MANAGEMENT A, A1		1	FILE, M7852 LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD	. 28-22-13
CARD - FUEL SYSTEM MANAGEMENT B, A2		1	FILE, M7852 LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD	28-22-13
CARD - VALVE POSITION LOGIC 1, A6		1	FILE, M7852 LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD	28-22-14
CARD - VALVE POSITION LOGIC 2, A7		1	FILE, M7852 LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD	28-22-14
CARD - VALVE POSITION LOGIC 3, A8		1	FILE, M7852 LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD	28-22-14
CARD - VALVE POSITION LOGIC 4, A9		1	FILE, M7852 LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE, FUEL SYSTEM CARD FILE, M7852	28-22-14
CIRCUIT BREAKERS -			FLT COMPT, P6	
FUEL QTY 1, C10123 FUEL QTY 2, C10124		1 1	6D5 6D6	
CIRCUIT BREAKERS -			FLT COMPT, P7	
REFUEL & XFR STAB L, C10125 REFUEL & XFR STAB R, C10126		1 1	7H25 7H26	
CIRCUIT BREAKERS - FUELING LIGHTS HOT OR FUELING PWR-HOT BAT,		1	117AL, MAIN EQUIP CTR, P180 180B2 OR 180M9	
C1143 FUELING LTS PANEL, C10746		1	180C25	
FUELING LTS RECP, C10747		1	180C25	
FUELING VALVE 2, C86 CIRCUIT BREAKERS -		1	180B1 OR 180M8 117AL, MAIN EQUIP CTR, P414	
LIGHT FUELING OR FUELING PWR, C1142		1	414F22	
FUELING VALVE, C90		1	414F17	
CIRCUIT BREAKER - FUEL OVERFILL CONT, C62		1	117AL, MAIN EQUIP CTR, P415 415M14	
FILE, FUEL SYSTEM CARD, M7852		1	LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE	

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST



Pressure Fueling System - Component Index Figure 101 (Sheet 1)

Figure 34 28-21 Pressure Fueling System Component Index ( Sheet 1 )



Page: 40 FRA TS 83 ts 2.11.93

				1
	FIG.			
0011501515	l		100500/1051	
COMPONENT	102	QTY	ACCESS/AREA	REFERENCE
	SHT			
	эпі			
LIGHT - CENTER WING LEFT FUELING VALVE, L72	7	1	REFUEL CNT PANEL, P42, L WING	*
LIGHT - CENTER WING RIGHT FUELING VALVE, L73	7	l i	REFUEL CNT PANEL, P42, L WING	*
LIGHT - FUELING FLOOD PANEL, L67	7	1	REFUEL CNT PANEL, P42, L WING	
LIGHT - HORIZONTAL STABILIZER FUELING VALVE,	7	1	REFUEL CNT PANEL, P42, L WING	
L3597 [2>				
LIGHT - HORIZONTAL STABILIZER ISOLATION	7	1	REFUEL CNT PANEL, P42, L WING	*
VALVE, L3600 2				
LIGHT - HORIZONTAL STABILIZER POSITION,	7	1 1	REFUEL CNT PANEL, P42, L WING	*
L3569 2 3				
LIGHT - HORIZONTAL STABILIZER POSITION INDI-	8	1	FLIGHT DECK FUELING CONTROL	*
	ľ	'		
CATOR, (YVXL1) 4	_		PANEL, M5	_
LIGHT - LEFT SECONDARY TEST, L3598	7	1	REFUEL CNT PANEL, P42, L WING	
LIGHT - M1 FUELING VALVE, L69	7	1	REFUEL CNT PANEL, P42, L WING	*
LIGHT - M2 INBD FUELING VALVE, L71	7	1	REFUEL CNT PANEL, P42, L WING	*
LIGHT - M2 OUTBD FUELING VALVE, L70	7	1	REFUEL CNT PANEL, P42, L WING	*
LIGHT - M3 INBD PRESSURE FUELING VALVE, L74	7	1 1	REFUEL CNT PANEL, P42, L WING	*
LIGHT - M3 OUTBD PRESSURE FUELING VALVE, L75	7	1	REFUEL CNT PANEL, P42, L WING	*
LIGHT - M4 PRESSURE FUELING VALVE, L76	7	Ιί	REFUEL CNT PANEL, P42, L WING	*
1				
LIGHT - OVERFILL INDICATOR, L3595	7	1	REFUEL CNT PANEL, P42, L WING	
LIGHT - REFUEL FLOOD, L1149	7	1	REFUEL CNT PANEL, P42, L WING	
LIGHT - RESERVE 2 FUELING VALVE, L2202	7	1	REFUEL CNT PANEL, P42, L WING	*
LIGHT - RESERVE 3 FUELING VALVE, L2203	7	1	REFUEL CNT PANEL, P42, L WING	*
LIGHT - RIGHT SECONDARY TEST, L3599 2	7	1	REFUEL CNT PANEL, P42, L WING	*
MODULE - FUEL MANAGEMENT CONTROL, M154		1 1	FLT COMPT, P5	*
PUMP - LEFT HORIZONTAL STABILIZER, M7862		1		
PUMP - RIGHT HORIZONTAL STABILIZER, M7863		Ιί		
		'		
DESCRIPTION FOR A FEET WINDS FUEL INC.	١ ,		FOARD LEFT LEADING FROM TO FROM T	00.04.04
RECEPTACLE - LEFT WING FUELING	2	2	521BB, LEFT LEADING EDGE TO FRONT	28-21-01
	l _	_	SPAR	
RECEPTACLE - RIGHT WING FUELING	2	2	621BB, RIGHT LEADING EDGE TO	28-21-01
			FRONT SPAR	
RELAYS - (31-01-09/101)				
FUELING SHUTOFF, R699				
HORIZONTAL STABILIZER ISOLATION VALVE				
REFUEL BATTERY POWER, R7521 2				
HORIZONTAL STABILIZER POSITION, R7392				
3				
HORIZONTAL STABILIZER REFUELING SHUTOFF,				
R7391 2	1			
RELAYS - (31-01-24/101)				
FUELING GROUND POWER TRANSFER, R7881				
POWER GROUND FUELING GAUGE, R996				
REFUELING POWER CONTROL, R331				
RELAYS - (31-01-36/101)	1			
HORIZONTAL STABILIZER FUEL TRANSFER	1			
CONTROL, R7397 2	1			
HORIZONTAL STABILIZER LEFT ISOLATION VALVES CONTROL. R7399	1			
· · · · · · · · · · · · · · · · · · ·				
LEFT HORIZONTAL STABILIZER ISOLATION VALVES	1			
OPEN, R7396 [2				
NO. 2 VALVE TEST, R7743	1			
RELAY - HORIZONTAL STABILIZER LEFT PUMP		1	835L, AFT EQUIP CTR, P85	
CONTROL, R7401 2			,	
RELAY - HORIZONTAL STABILIZER RIGHT PUMP		1	835L, AFT EQUIP CTR, P85	
CONTROL, R7402 2	1	'	,	
0011110L,11170L	L			<u> </u>



2 AIRPLANES WITH A HORIZONTAL STABILIZER TANK 4 DLH AIRPLANES WITH STABILIZER FUELING LOCK-OUT SYSTEM
3 AIRPLANES WITH STABILIZER FUELING LOCK-OUT SYSTEM

Pressure Fueling System - Component Index

Figure 101 (Sheet 2)

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Figure 35 28-21 Pressure Fueling System Component Index (Sheet 2)



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	1			
	FIG.			
COMPONENT	_	QTY	ACCESS/AREA	REFERENCE
COMPONENT	102	QII	ACCESS/AREA	KLILKLINGL
	SHT			
DEL N/O (04.04.00/404)				
RELAYS - (31-01-39/101)				
HORIZONTAL STABILIZER RIGHT ISOLATION VALVE				
CONTROL, R7400 2				
JETTISON OVERRIDE, R7393,R7394				
RIGHT HORIZONTAL STABILIZER FUEL TRANSFER				
CONTROL, R7398 2				
RIGHT HORIZONTAL STABILIZER ISOLATION				
VALVES OPEN, R7396 2				
RELAY - FUELING POWER TRANSFER, R4		1	117AL, MAIN EQUIP CTR	28-21-05
SWITCH - ALL VALVES PRESELECT CONTROL, S1874	7	l 1	REFUEL CNT PANEL, P42, L WING	*
SWITCH - CENTER TANK FUEL CONTROL, S1878	7	1 1	REFUEL CNT PANEL, P42, L WING	*
SWITCH - CENTER TANK SECONDARY VALVE TEST,	7		REFUEL CNT PANEL, P42, L WING	*
\$1880 2	l '	'	1100000117111000,1 42, 2 111110	
SWITCH - CONTROL, FUELING POWER, S681	2	1 1	521CB, LEFT LEADING EDGE TO FRONT	28-21-04
SWITCH - CONTROL, FULLING FOWLK, 3001		'	SPAR	20-21-04
SWITCH - FLOAT, HORIZONTAL STABILIZER SURGE	5.6	1 1	343KB. RIGHT FRONT SPAR TO REAR	28-21-29
TANK, S1869 2	] 3,0	'	SPAR, INBD OF SURGE TANK,	20-21-23
17.WK, 01003			HORIZONTAL STABILIZER	
CANITOLL FLOAT LEFT MINIC CLIDGE TANK COOL	3	1		20 24 42
SWITCH - FLOAT, LEFT WING SURGE TANK, S691	٥	' '	555AB, LEFT FRONT SPAR TO REAR SPAR SURGE TANK	28-21-12
CANITOLL FLOAT DIGHT MINIC CLIDGE TANK COOL		,		00 04 40
SWITCH - FLOAT, RIGHT WING SURGE TANK, S690	3	1	655AB, RIGHT FRONT SPAR TO REAR	28-21-12
	l _	١	SPAR SURGE TANK	
SWITCH - HORIZONTAL STABILIZER FUEL TANK	7	1	REFUEL CNT PANEL, P42, L WING	*
CONTROL, S1873 2				
SWITCH - HORIZONTAL STABILIZER ISOLATION	7	1	REFUEL CNT PANEL, P42, L WING	*
CONTROL VALVE, S1879 2				
SWITCH HORIZONTAL STABILIZER POSITION,	7	1	REFUEL CNT PANEL, P42, L WING	*
S1875 2				
SWITCH - LEFT SECONDARY REFUEL VALVE	7	1	REFUEL CNT PANEL, P42, L WING	*
PRESSURE, S1877 2				
SWITCH - M1 CONTROL, S81	7	1	REFUEL CNT PANEL, P42, L WING	*
SWITCH - M2 CONTROL, S82	7	1	REFUEL CNT PANEL, P42, L WING	*
SWITCH - M3 CONTROL, S87	7	1	REFUEL CNT PANEL, P42, L WING	*
SWITCH - M4 CONTROL, S88	7	1	REFUEL CNT PANEL, P42, L WING	*
SWITCH - OVERFILL RESET, S1076	7	1	REFUEL CNT PANEL, P42, L WING	*
SWITCH - REFUEL POWER SELECT, S79	7		REFUEL CNT PANEL, P42, L WING	*
SWITCH - REFUEL VALVE, YVXS1 5	8	1	FLIGHT DECK FUELING CONTROL	*
	l	'	MODULE, M5	
SWITCH - RESERVE 2 FUELING VALVE CONTROL,	7	1 1	REFUEL CNT PANEL, P42, L WING	*
S1263	l '	'	112. OLL OIT!   /114.L.,   72, L VVIIVO	
SWITCH - RESERVE 3 FUELING VALVE CONTROL,	7	1 1	REFUEL CNT PANEL, P42, L WING	*
SWITCH - RESERVE 3 FUELING VALVE CONTROL,  S1264	l '	'	I INLI OEL CINT FAINEL, F42, E WIING	
SWITCH - RIGHT SEÇONDARY REFUEL VALVE	7	4	DEELIEL CNT DANIEL DAS LIMINO	*
	l ′	1	REFUEL CNT PANEL, P42, L WING	'
PRESSURE, S1876 2		,	2424 DICLIT ADEA ACT OF DDCCCUDE	000400
UNIT - CONTROL, HORIZONTAL STABILIZER TANK	6	1	312A, RIGHT AREA AFT OF PRESSURE	28-21-02
REFUEL VALVE, V434  2	_	,	BULKHEAD	00.04.00
UNIT - CONTROL, INBD NO. 2 MAIN TANK REFUEL	3	1	571AB, LEFT REAR SPAR TO LANDING	28-21-02
VALVE			GEAR SUPPORT BEAM	
UNIT - CONTROL, INBD NO. 3 MAIN TANK REFUEL	3	1	671AB, RIGHT REAR SPAR TO LANDING	28-21-02
VALVE			GEAR SUPPORT BEAM	
UNIT - CONTROL, LEFT CENTER WING TANK REFUEL	4	1	LEFT WING LANDING GEAR WELL	28-21-02
VALVE				
UNIT - CONTROL, NO. 1 MAIN TANK REFUEL VALVE	3	1	581EB, LEFT SPOILER NO. 2	28-21-02
UNIT - CONTROL, NO. 4 MAIN TANK REFUEL VALVE	3	1	681EB, RIGHT SPOILER NO. 2	28-21-02

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

2 AIRPLANES WITH A HORIZONTAL STABILIZER TANK
5 DLH ALL

Pressure Fueling System - Component Index

Figure 101 (Sheet 3)

Figure 36 28-21 Pressure Fueling System Component Index ( Sheet 3 )



	ı	ı		
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
UNITS - (31-61-00/101) C EFIS/EICAS INTERFACE, M7352 L EFIS/EICAS INTERFACE, M7353 R EFIS/EICAS INTERFACE, M7351				
UNIT - CONTROL, NO. 2 RESERVE TANK REFUEL VALVE	3	1	591AB, LEFT REAR SPAR TO TRAILING EDGE	28-21-02
UNIT - CONTROL, NO. 3 RESERVE TANK REFUEL VALVE	3	1	691AB, RIGHT REAR SPAR TO TRAILING EDGE	28-21-02
UNIT - CONTROL, OUTBD NO. 2 MAIN TANK REFUEL VALVE	3	1	572GB, LEFT LANDING GEAR SUPPORT BEAM AND REAR SPAR TO TRAILING EDGE	28-21-02
UNIT - CONTROL, OUTBD NO. 3 MAIN TANK REFUEL VALVE	3	1	672GB, RIGHT LANDING GEAR SUPPORT BEAM AND REAR SPAR TO TRAILING EDGE	28-21-02
UNIT - CONTROL, RIGHT CENTER WING TANK REFUEL VALVE	4	1	RIGHT WING LANDING GEAR WELL	28-21-02
UNIT - FUEL QUANTITY PROCESSOR, M7860 UNIT - HORIZONTAL STABILIZER FUEL REM ELEC, M7861		1 1		28-41-13 *
UNIT - HORIZONTAL STABILIZER TANK REFUEL  VALVE 2	5	1	RIGHT HORIZONTAL STABILIZER TORSION BOX	28-21-13
UNIT - INBD NO. 2 MAIN TANK REFUEL VALVE, V81	3	1	545AB, LEFT MID SPAR TO REAR SPAR INBD MAIN TANK	28-21-13
UNIT - INBD NO. 3 MAIN TANK REFUEL VALVE, V62	3	1	645AB, RIGHT MID SPAR TO REAR SPAR INBD MAIN TANK	28-21-13
UNIT - LEFT CENTER WING TANK REFUEL VALVE, V60	4	1	131AZ,131BZ,131CZ,131DZ, LEFT CENTER SECTION WING BOX	28-21-13
UNIT - NO. 1 MAIN TANK REFUEL VALVE, V58	3	1	546BB, LEFT MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-21-13
UNIT - NO. 2 RESERVE TANK REFUEL VALVE, V469	3	1	553BB, LEFT FRONT SPAR TO REAR SPAR RESERVE TANK	28-21-13
UNIT - NO. 3 RESERVE TANK REFUEL VALVE, V470	3	1	653BB, RIGHT FRONT SPAR TO REAR SPAR INBD MAIN TANK	28-21-13
UNIT - NO. 4 MAIN TANK REFUEL VALVE, V63	3	1	646BB, RIGHT MID SPAR TO REAR SPAR OUTBD MAIN TANK	28-21-13
UNIT - OUTBD NO. 2 MAIN TANK REFUEL VALVE, V59	3	1	545BB, LEFT MID SPAR TO REAR SPAR INBD MAIN TANK	28-21-13
UNIT - OUTBD NO. 3 MAIN TANK REFUEL VALVE, V82	3	1	645BB, LEFT MID SPAR TO REAR SPAR INBD MAIN TANK	28-21-13
UNIT - RIGHT CENTER WING TANK REFUEL VALVE, V61	4	1	131AZ,131BZ,131CZ,131DZ, RIGHT CENTER SECTION WING BOX	28-21-13
VALVE - LEFT AFT HORIZONTAL STABILIZER ISOLATION, V435 2		1		*
VALVE - LEFT FORWARD HORIZONTAL STABILIZER ISOLATION, V439  VALVE - LEET MANIEOLD DRAIN		1	LEET MID COAD TO DE AD COAD INCO	70 74 02
VALVE - LEFT MANIFOLD DRAIN  VALVE - LEFT REFUEL OVERRIDE, V437  2	2	1	LEFT MID SPAR TO REAR SPAR INBD MAIN TANK 131AZ,131BZ,131CZ,131DZ, RIGHT	28-21-03
VALVE - LEFT REFUEL OVERRIDE, V437	4	1	CENTER SECTION WING BOX	28-21-28 *
ISOLATION, V436 2 VALVE - RIGHT FORWARD HORIZONTAL STABILIZER		1		*
ISOLATION, V440 2 ISOLATION   VALVE - RIGHT MANIFOLD DRAIN	2	1	RIGHT MID SPAR TO REAR SPAR INBD	28-21-03
VALVE - RIGHT MANIFOLD BRAIN  VALVE - RIGHT REFUEL OVERRIDE, V438	4	1	MAIN TANK 131AZ,131BZ,131CZ,131DZ, RIGHT CENTER SECTION WING BOX	28-21-28

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

2 AIRPLANES WITH A HORIZONTAL STABILIZER TANK

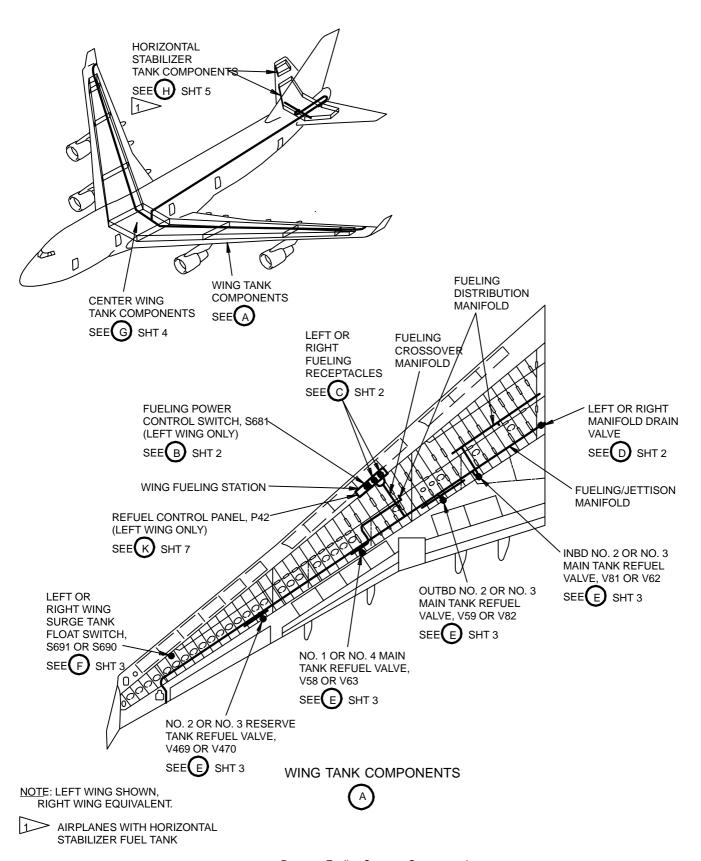
Pressure Fueling System - Component Index Figure 101 (Sheet 4)

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Figure 37 28-21 Pressure Fueling System Component Index ( Sheet 4 )



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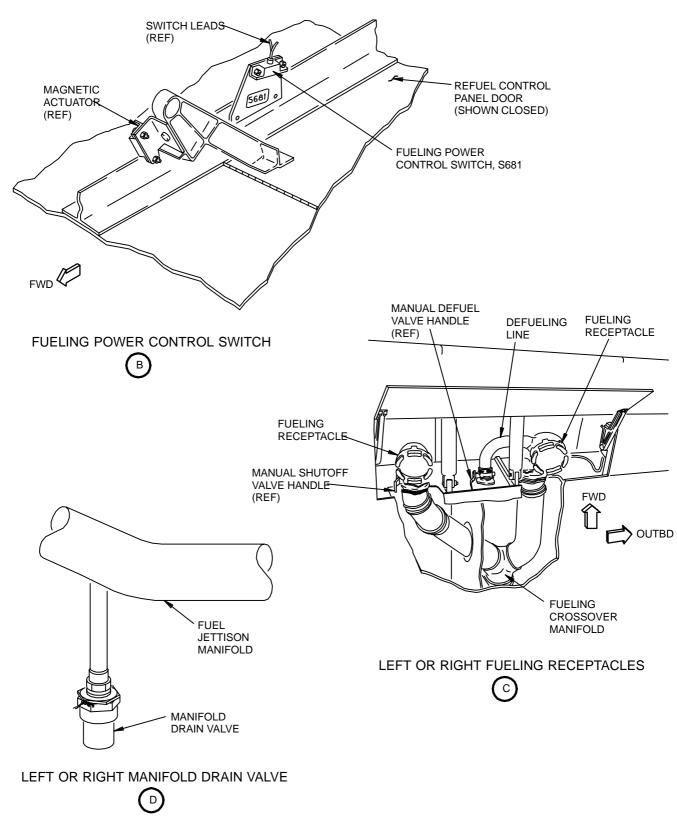


Pressure Fueling System - Component Locaton

Figure 102 (Sheet 1)

Figure 38 28-21 Pressure Fueling System Component Location (Sheet 1)





Pressure Fueling System - Component Location (Details from Sht 1)

Figure 102 (Sheet 2)

Figure 39 28-21 Pressure Fueling System Component Location ( Sheet 2 )

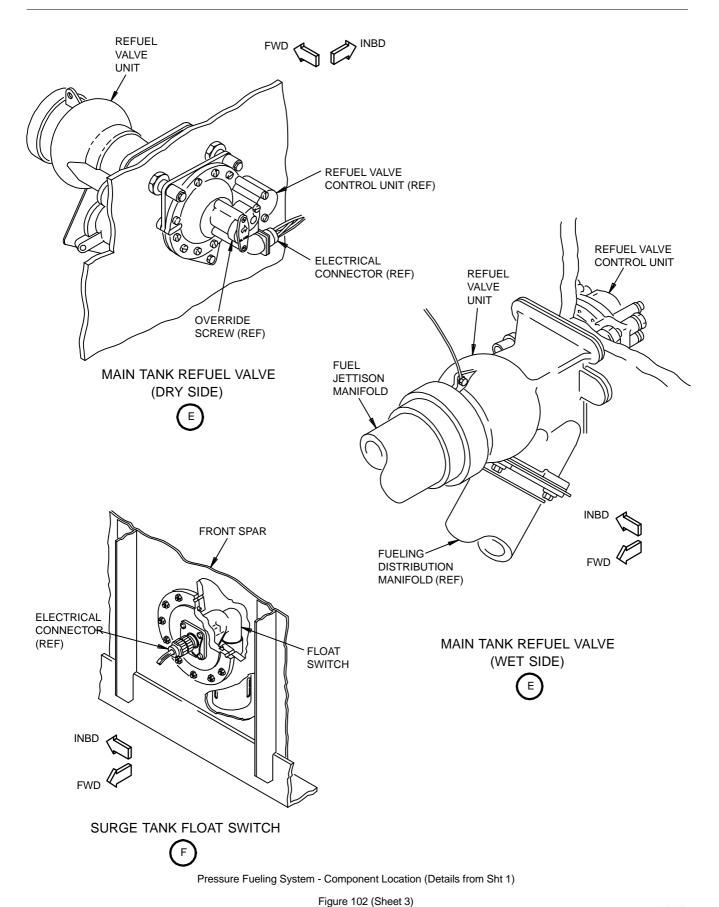
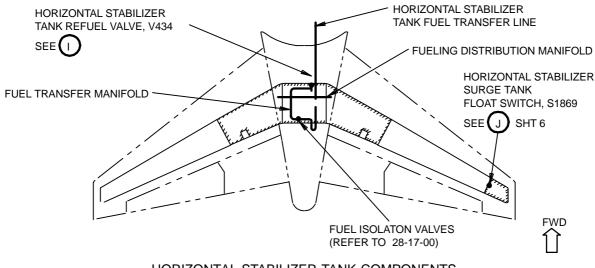


Figure 40 28-21 Pressure Fueling System Component Location (Sheet 3)



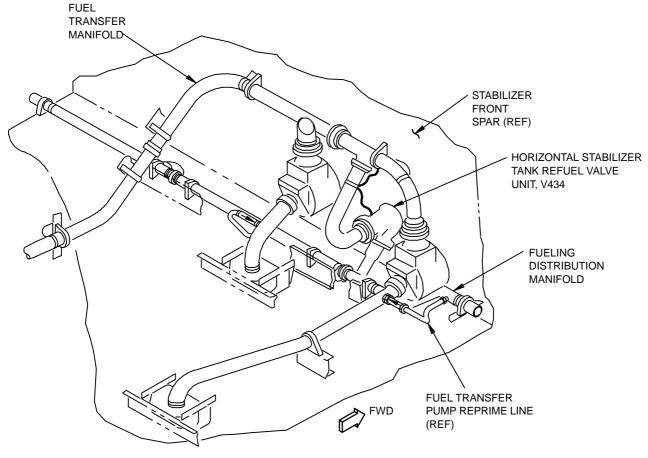
Figure 41 28-21 Pressure Fueling System Component Location (Sheet 4)

Figure 102 (Sheet 4)



#### HORIZONTAL STABILIZER TANK COMPONENTS





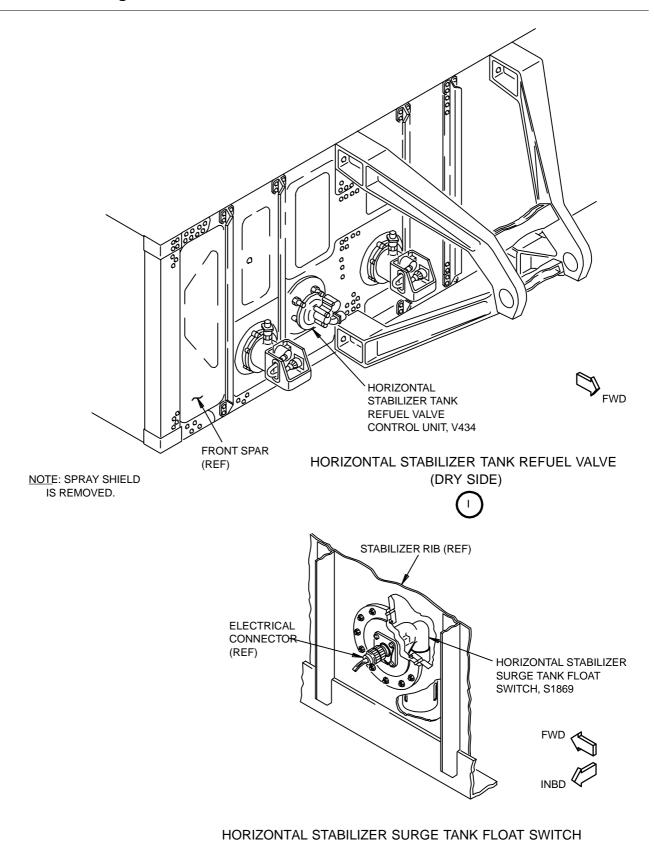
HORIZONTAL STABILIZER TANK REFUEL VALVE (WET SIDE)



Pressure Fueling System - Component Location Figure 102 (Sheet 5)

Figure 42 28-21 Pressure Fueling System Component Location (Sheet 5)

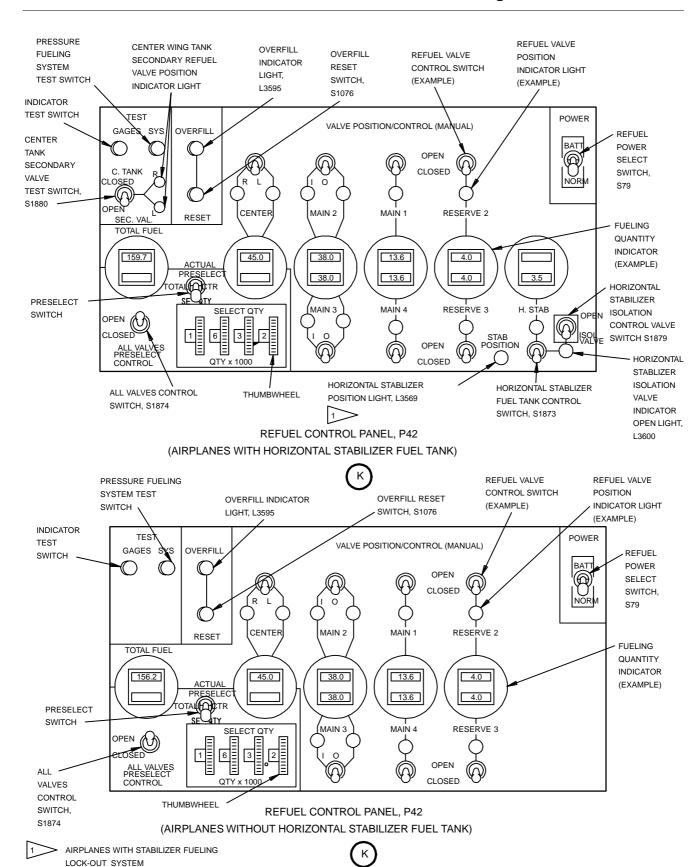




Pressure Fueling System - Component Location (Details from Sht 1) Figure 102 (Sheet 6)

28-21 Pressure Fueling System Component Location (Sheet 6) Figure 43

**TECHNISCHE SCHULUNG** 



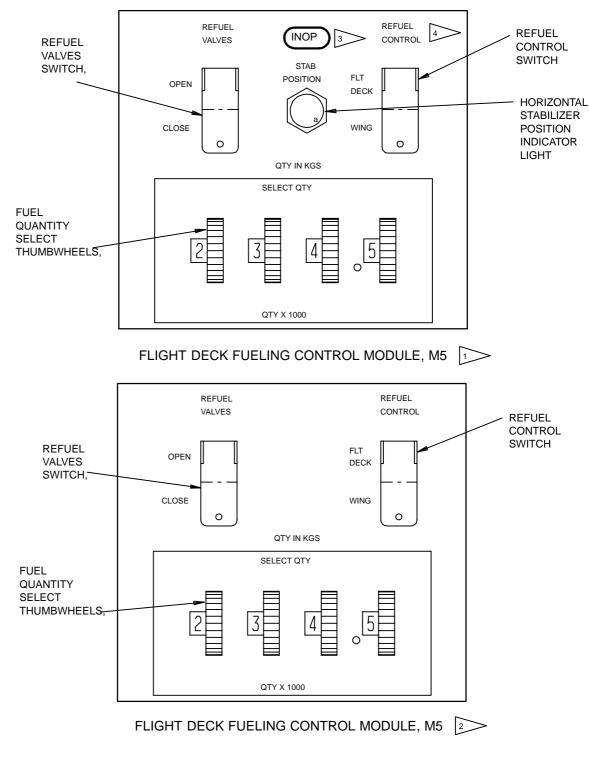
Pressure Fueling System - Component Location (Detail from Sht 1)

Figure 102 (Sheet 7)

Figure 44 28-21 Pressure Fueling System Component Location (Sheet 7)



28-21



AIRPLANES WITH STABILIZER FUELING LOCK-OUT SYSTEM

AIRPLANES WITHOUT STABILIZER FUELING LOCK-OUT SYSTEM

HORIZONTAL STABILIZER POSITION INDICATOR LIGHT PLACARDED INOP ON AIRPLANES WITHOUT HORIZONTAL STABILIZER TANK

DLH 002 WITH SB 28-2135

Pressure Fueling System - Component Location Figure 102 (Sheet 8)

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Figure 45 28-21 Pressure Fueling System Component Location (Sheet 8)

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28-22

# ATA 28-22 ENGINE FUEL FEED SYSTEM

**COMPONENT INDEX AND LOCATION** 



#### **ENGINE FUEL FEED SYSTEM**

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - VALVE, NO. 1 ENGINE FUEL SHUTOFF, V13	1	1	L LEADING EDGE TO FRONT SPAR	28-22-01
ACTUATOR - VALVE, NO. 1 FUEL CROSSFEED, V45 ACTUATOR - VALVE, NO. 2 ENGINE FUEL SHUTOFF, V14	1 1	1	L LEADING EDGE TO FRONT SPAR L LEADING EDGE TO FRONT SPAR	28-22-02 28-22-01
ACTUATOR - VALVE, NO. 2 FUEL CROSSFEED, V46 ACTUATOR - VALVE, NO. 3 ENGINE FUEL SHUTOFF, V15	1 1	1	L LEADING EDGE TO FRONT SPAR R LEADING EDGE TO FRONT SPAR	28-22-02 28-22-01
ACTUATOR - VALVE, NO. 3 FUEL CROSSFEED, V47 ACTUATOR - VALVE, NO. 4 ENGINE FUEL SHUTOFF, V16	1 1	1	R LEADING EDGE TO FRONT SPAR R LEADING EDGE TO FRONT SPAR	28-22-02 28-22-01
ACTUATOR - VALVE, NO. 4 FUEL CROSSFEED, V48 ADAPTER - VALVE, NO. 1 ENGINE FUEL SHUTOFF	1 1	1	R LEADING EDGE TO FRONT SPAR 546AB, L FRONT SPAR TO MID SPAR OUTBD MAIN TANK, L LEADING EDGE TO FRONT SPAR	28-22-02 28-22-09
ADAPTER - VALVE, NO. 1 FUEL CROSSFEED	1	1	546AB, L FRONT SPAR TO MID SPAR OUTBD MAIN TANK, L LEADING EDGE TO FRONT SPAR	28-22-1 1
ADAPTER - VALVE, NO. 2 ENGINE FUEL SHUTOFF	1	1	545BB, L FRONT SPAR TO MID SPAR INBD MAIN TANK, L LEADING EDGE TO FRONT SPAR	28-22-09
ADAPTER - VALVE, NO. 2 FUEL CROSSFEED	1	1	545AB, L FRONT SPAR TO MID SPAR INBD MAIN TANK, L LEADING EDGE TO FRONT SPAR	28-22-1 1
ADAPTER - VALVE, NO. 3 ENGINE FUEL SHUTOFF	1	1	645BB, R FRONT SPAR TO MID SPAR INBD MAIN TANK, R LEADING EDGE	28-22-09
ADAPTER - VALVE, NO. 3 FUEL CROSSFEED	1	1	TO FRONT SPAR 645AB, R FRONT SPAR TO MID SPAR INBD MAIN TANK, R LEADING EDGE TO FRONT SPAR	28-22-1 1
ADAPTER - VALVE, NO. 4 ENGINE FUEL SHUTOFF	1	1	646AB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK, R LEADING EDGE	28-22-09
ADAPTER - VALVE, NO. 4 FUEL CROSSFEED	1	1	TO FRONT SPAR 646AB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK, R LEADING EDGE TO FRONT SPAR	28-22-1 1
BODY - VALVE, NO. 1 ENGINE FUEL SHUTOFF, V13	1	1	546AB, L FRONT SPAR TO MID SPAR OUTBD MAIN TANK	28-22-05
BODY - VALVE, NO. 1 FUEL CROSSFEED, V45	1	1	546AB, L FRONT SPAR TO MID SPAR OUTBD MAIN TANK	28-22-10
BODY - VALVE, NO. 2 ENGINE FUEL SHUTOFF, V14	1	1	545BB, L FRONT SPAR TO MID SPAR INBD MAIN TANK	28-22-05
BODY - VALVE, NO. 2 FUEL CROSSFEED, V46	1	1	545AB, L FRONT SPAR TO MID SPAR INBD MAIN TANK	28-22-10
BODY - VALVE, NO. 3 ENGINE FUEL SHUTOFF, V15	1	1	645BB, R FRONT SPAR TO MID SPAR INBD MAIN TANK	28-22-05
BODY - VALVE, NO. 3 FUEL CROSSFEED, V47	1	1	645AB, R FRONT SPAR TO MID SPAR INBD MAIN TANK	28-22-10
BODY - VALVE, NO. 4 ENGINE FUEL SHUTOFF, V16	1	1	646AB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK	28-22-05
BODY - VALVE, NO. 4 FUEL CROSSFEED, V48	1	1	646AB, R FRONT SPAR TO MID SPAR OUTBD MAIN TANK	28-22-10

Engine Fuel Feed System - Component Index

Figure 101 (Sheet 1)

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Figure 46 28-22 Engine Fuel feed System Component Index ( Sheet 1 )



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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CARD - CENTER WING SINGLE POINT SENSOR, A3	7	1	117AL, MAIN EQUIP CTR, FUEL	*
CARD - FUEL SYSTEM EICAS INTERFACE MAIN, Y5BA14	7	1	SYSTEM CARD FILE, M7852 117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	*
CARD - FUEL SYSTEM EICAS INTERFACE SLAVE, Y58A15	7	1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	*
CARD - FUEL SYSTEM MANAGEMENT A, Y5BA5	7	1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	28-22-13
CARD - FUEL SYSTEM MANAGEMENT B, Y5B10	7	1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	28-22-13
CARD - M2/M3 SINGLE POINT SENSOR, A2	7	1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	*
CARD - VALVE POSITION LOGIC 1, Y5BA6	7	1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	28-22-14
CARD - VALVE POSITION LOGIC 2, Y5BA9	7	1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	28-22-14
CARD - VALVE POSITION LOGIC 3, Y5BA11	7	1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	28-22-14
CARD - VALVE POSITION LOGIC 4, Y5BA12	7	1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	28-22-14
CIRCUIT BREAKERS -	6		FLT COMPT P6	
FUEL SHUTOFF VALVE ENG 1, C35		1	6G1	
FUEL SHUTOFF VALVE ENG 2, C36		1	6G2	
FUEL SHUTOFF VALVE ENG 3, C37		1	6G3	
FUEL SHUTOFF VALVE ENG 4, C38		1	6G4	
FUEL SYS MGMT CARD A, C10128		1	6F5	
FUEL SYS MGMT CARD B, C10127		1 1	6F7 6L14	
FUEL XFEED VALVE ENG 1, C76 FUEL XFEED VALVE ENG 2, C77			6L14   6L15	
FUEL XFEED VALVE ENG 2, C77		Ιί	6L16	
FUEL XFEED VALVE ENG 4, C79		Ιί	6L17	
CIRCUIT BREAKERS -		l '	117AL, MAIN EQUIP CTR, P180	
BOOST PUMP CONT 1 AFT & 4 FWD, C454		l 1	180E4	
BOOST PUMP CONT 1 FWD & 4 AFT, C293		l i	180E19	
BOOST PUMP CONT 2 AFT & 3 FWD, C560		1	180H4	
BOOST PUMP CONT 2 FWD & 3 AFT, C455		1	180H19	
CIRCUIT BREAKERS -			117AL, MAIN EQUIP CTR, P414	
FUEL BOOST PUMP MAIN AFT 1, C801		1	414B5	
FUEL BOOST PUMP MAIN AFT 2, C803		1	414R18	
FUEL BOOST PUMP MAIN FWD 3, C809		1	414J5	
FUEL BOOST PUMP MAIN FWD 4, C811		1	414A8	
FUEL BOOST PUMP CONT MN AFT 2, C561		1	414E24	

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

Engine Fuel Feed System - Component Index

Figure 101 (Sheet 2)

Figure 47 28-22 Engine Fuel Feed System Component Index ( Sheet 2 )



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS -			117AL, MAIN EQUIP CTR, P415	
FUEL BOOST PUMP MAIN AFT 3, C808		1	415M29	
FUEL BOOST PUMP MAIN AFT 4, C810			415A35	
FUEL BOOST PUMP MAIN FWD 1, C802		1	415B35	
FUEL BOOST PUMP MAIN FWD 2, C804		1	415G29	
DIODE - (31-01-36/101)				
M846				
FILE - FUEL SYSTEM CARD, M7852	7	1	L AREA BETWEEN NOSE GEAR WELL AN FUSELAGE	P *
HOUSING - AFT NO. 1 MAIN TANK FUEL BOOST	2	1 1	545BB. L MID SPAR TO REAR SPAR	28-22-12
PUMP, M22	-		INBD MAIN TANK	20 22 12
HOUSING - AFT NO. 2 MAIN TANK FUEL BOOST	3	1	544AB, L MID SPAR TO REAR SPAR	28-22-12
PUMP, M23			INBD MAIN TANK	
HOUSING - AFT NO. 3 MAIN TANK FUEL BOOST	3	1	644AB, R MID SPAR TO REAR SPAR	28-22-12
PUMP, M31			INBD MAIN TANK	
HOUSING - AFT NO. 4 MAIN TANK FUEL BOOST	2	1	645BB, R MID SPAR TO REAR SPAR	28-22-12
PUMP, M32			INBD MAIN TANK	
HOUSING - FORWARD NO. 1 MAIN TANK FUEL BOOST	2	1	545BB, L MID SPAR TO REAR SPAR	28-22-12
PUMP, M28			INBD MAIN TANK	
HOUSING - FORWARD NO. 2 MAIN TANK FUEL BOOST	3	1	544AB, L FRONT SPAR TO MID SPAR	28-22-12
PUMP, M29			INBD MAIN TANK	
HOUSING - FORWARD NO. 3 MAIN TANK FUEL BOOST	3	1	644AB, R FRONT SPAR TO MID SPAR	28-22-12
PUMP, M26 HOUSING - FORWARD NO. 4 MAIN TANK FUEL BOOST	2	1	INBD MAIN TANK 645BB, R MID SPAR TO REAR SPAR	28-22-12
PUMP, M27	-	'	INBD MAIN TANK	20-22-12
MODULE - ENGINE START LEVER, YBEM01		1	FLT COMPT, P8	*
MODULE - FUEL MANAGEMENT CONTROL, M154	6	li	FLT COMPT, P5	*
LINE - L ENGINE FUEL FEED SYSTEM			545AB,545CB,545DB,546BB,552AB,	28-22-07
			552BB,552CB,552DB,552EB,552FB,	
			553BB,553CB,553DB,553EB,553FB,	
			553GB,553HB,553JB, L WING	
LINE - R ENGINE FUEL FEED SYSTEM			645AB,645CB,645DB,646BB,652AB,	28-22-07
			652BB,652CB,652DB,652EB,652FB,	
			653BB,653CB,653DB,653EB,653FB,	
5.0.5 5.55555 A.T. 10 (A.A.) 1.71.11/11/11/11			653GB,653HB,653JB, R WING	
PUMP - EJECTOR, AFT NO. 1 MAIN TANK WATER	1	1	546AB, L MID SPAR TO REAR SPAR	28-22-08
SCAVENGE	1	1	OUTBD MAIN TANK	28-22-08
PUMP - EJECTOR, AFT NO. 2 MAIN TANK WATER SCAVENGE	]	1	544AB, L MID SPAR TO REAR SPAR INBD MAIN TANK	20-22-08
PUMP - EJECTOR, AFT NO. 3 MAIN TANK WATER	1	1	644AB, R MID SPAR TO REAR SPAR	28-22-08
SCAVENGE	'	'	INBD MAIN TANK	20-22-00
PUMP - EJECTOR, AFT NO. 4 MAIN TANK WATER	1	1	646AB, R MID SPAR TO REAR SPAR	28-22-08
SCAVENGE		'	OUTBD MAIN TANK	
PUMP - EJECTOR, FORWARD NO. 1 MAIN TANK WATER	1	1	546AB, L FRONT SPAR TO MID SPAR	28-22-08
SCAVENGE			OUTBD MAIN TANK	
PUMP - EJECTOR, FORWARD NO. 2 MAIN TANK WATER	1	1	544AB, L FRONT SPAR TO MID SPAR	28-22-08
SCAVENGE			INBD MAIN TANK	
PUMP - EJECTOR, FORWARD NO. 3 MAIN TANK WATER	1	1	644AB, R FRONT SPAR TO MID SPAR	28-22-08
SCAVENGE			INBD MAIN TANK	
PUMP - EJECTOR, FORWARD NO. 4 MAIN TANK WATER	1	1	646AB, R FRONT SPAR TO MID SPAR	28-22-08
SCAVENGE			OUTBD MAIN TANK	

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

Engine Fuel Feed System - Component Index

Figure 101 (Sheet 3)

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Figure 48 28-22 Engine Fuel Feed System Component Index ( Sheet 3 )



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
RELAYS - (31-01-36/101) CROSSFEED VALVE AUTO CONTROL 2, R7403 GROUND SAFETY, R628 MAIN FUEL TANK 1 BOOST PUMP CONTROL AFT, R47 MAIN FUEL TANK 2 BOOST PUMP CONTROL FWD, R49 MAIN FUEL TANK 3 BOOST PUMP CONTROL FWD, R52 MAIN FUEL TANK 4 BOOST PUMP CONTROL FWD, R54 RELAYS - (31-01-39/101) CROSSFEED VALVE AUTO CONTROL 3, R7404 GROUND SAFETY, R637 MAIN FUEL TANK 1 BOOST PUMP CONTROL FWD, R48 MAIN FUEL TANK 2 BOOST PUMP CONTROL FWD, R50 MAIN FUEL TANK 3 BOOST PUMP CONTROL AFT, R51 MAIN FUEL TANK 4 BOOST PUMP CONTROL AFT, R53 SUPPRESSORS - (31-01-36/101) M2143 M2144 M2145 M2146				
SWITCH - AFT NO. 1 MAIN TANK BOOST PUMP, S5	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - AFT NO. 2 MAIN TANK BOOST PUMP, S6	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - AFT NO. 3 MAIN TANK BOOST PUMP, S7	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - AFT NO. 4 MAIN TANK BOOST PUMP, S8	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - FORWARD NO. 1 MAIN TANK BOOST PUMP,	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - FORWARD NO. 2 MAIN TANK BOOST PUMP, S2	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - FORWARD NO. 3 MAIN TANK BOOST PUMP,	6	1	FLT COMPT, P5, FUEL MANAGEMENT	*
S3 SWITCH - FORWARD NO. 4 MAIN TANK BOOST PUMP,	6	1	CONTROL MODULE, M154 FLT COMPT, P5, FUEL MANAGEMENT	*
SWITCH - L CENTER WING TANK OVERRIDE/JETTISON	6	1	CONTROL MODULE, M154 FLT COMPT, P5, FUEL MANAGEMENT	*
PUMP, S18 SWITCH - L HORIZONTAL STABILIZER FUEL	6	1	CONTROL MODULE, M154 FLT COMPT, P5, FUEL MANAGEMENT	*
TRANSFER PUMP, S14 SWITCH - NO. 1 FUEL CONTROL, S211	6	1	CONTROL MODULE, M154 FLT COMPT, CONTROL STAND	*
SWITCH - NO. 1 FUEL CROSSFEED VALVE, S9	6	1	FLT COMPT, P5, FUEL MANAGEMENT	*
SWITCH - NO. 2 FUEL CONTROL, S212 SWITCH - NO. 2 FUEL CROSSFEED VALVE, S10	6 6	1 1	CONTROL MODULE, M154 FLT COMPT, CONTROL STAND FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

Engine Fuel Feed System - Component Index Figure 101 (Sheet 4)

Figure 49 28-22 Engine Fuel Feed System Component Index ( Sheet 4 )

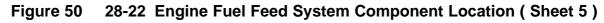


				1
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SWITCH - NO. 3 FUEL CONTROL. S213	6	1	FLT COMPT. CONTROL STAND	*
SWITCH - NO. 3 FUEL CROSSFEED VALVE, S11	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - NO. 4 FUEL CONTROL, S214	6	1	FLT COMPT, CONTROL STAND	*
SWITCH - NO. 4 FUEL CROSSFEED VALVE, S12	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - RIGHT CENTER WING TANK OVERRIDE/ JETTISON PUMP, S19	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
SWITCH - RIGHT HORIZONTAL STABILIZER FUEL TRANSFER PUMP, S15 UNITS - (31-61-00/101) C EFIS/EICAS INDICATION, M7352 L EFIS/EICAS INDICATION, M7353	6	1	FLT COMPT, P5, FUEL MANAGEMENT CONTROL MODULE, M154	*
R EFIS/EICAS INDICATION, M7351			447AL MAIN FOLUD OTD FO.O.	*
UNIT - L FUEL CONTROL, M7881 UNIT - R FUEL CONTROL, M7879		1	117AL, MAIN EQUIP CTR, E2-2 117AL, MAIN EQUIP CTR, E2-1	*
UNIT - MOTOR/IMPELLER, AFT NO. 1 MAIN TANK FUEL BOOST PUMP, M22	4	1	545DB, L MID SPAR TO REAR SPAR INBD MAIN TANK	28-22-03
UNIT - MOTOR/IMPELLER, AFT NO. 2 MAIN TANK FUEL BOOST PUMP, M23	4	1	L MID SPAR TO REAR SPAR INBD MAIN TANK	28-22-03
UNIT - MOTOR/IMPELLER, AFT NO. 3 MAIN TANK FUEL BOOST PUMP, M31	4	1	R MID SPAR TO REAR SPAR INBD MAIN TANK	28-22-03
UNIT - MOTOR/IMPÉLLER, AFT NO. 4 MAIN TANK FUEL BOOST PUMP, M32	4	1	645DB, R MID SPAR TO REAR SPAR INBD MAIN TANK	28-22-03
UNIT - MOTOR/IMPELLER, FORWARD NO. 1 MAIN TANK FUEL BOOST PUMP, M28	4	1	545CB, L MID SPAR TO REAR SPAR INBD MAIN TANK	28-22-03
UNIT - MOTOR/IMPELLER, FORWARD NO. 2 MAIN TANK FUEL BOOST PUMP, M29	4	1	L FRONT SPAR TO MID SPAR INBD MAIN TANK	28-22-03
UNIT - MOTOR/IMPELLER, FORWARD NO. 3 MAIN TANK FUEL BOOST PUMP, M26	4	1	R FRONT SPAR TO MID SPAR INBD MAIN TANK	28-22-03
UNIT - MOTOR/IMPELLER, FORWARD NO. 4 MAIN TANK FUEL BOOST PUMP, M27	4	1	645CB, R MID SPAR TO REAR SPAR INBD MAIN TANK	28-22-03
VALVE - FLOW LIMITING, FUEL	5	1	131EZ,131AZ,131BZ,RIGHT CENTER SECTION WING BOX	28-22-04

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

Engine Fuel Feed System - Component Index

Figure 101 (Sheet 5)





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### **Practical Training Handbook**

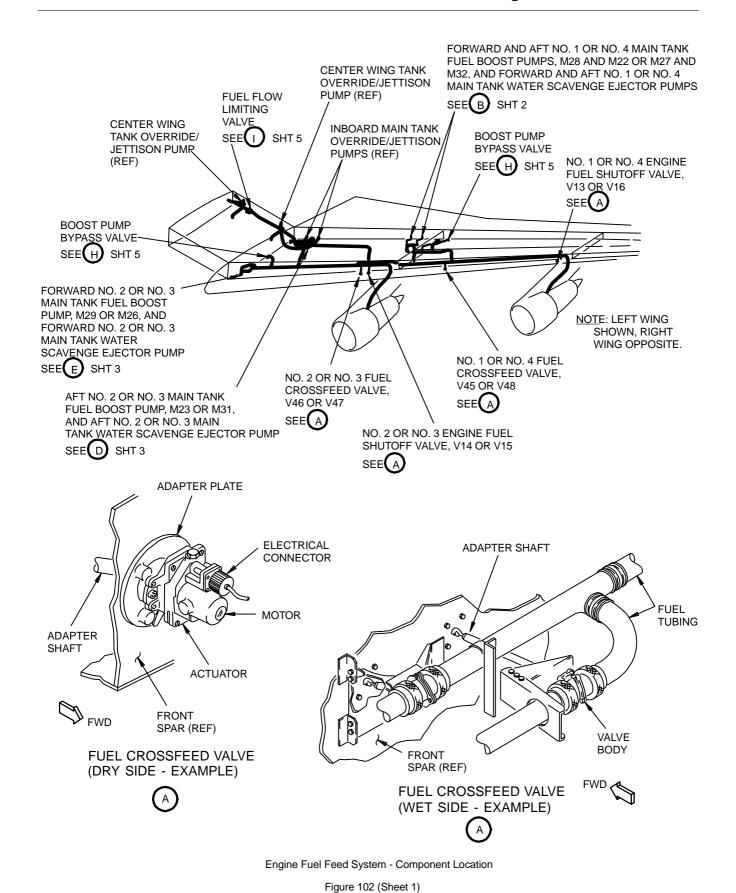
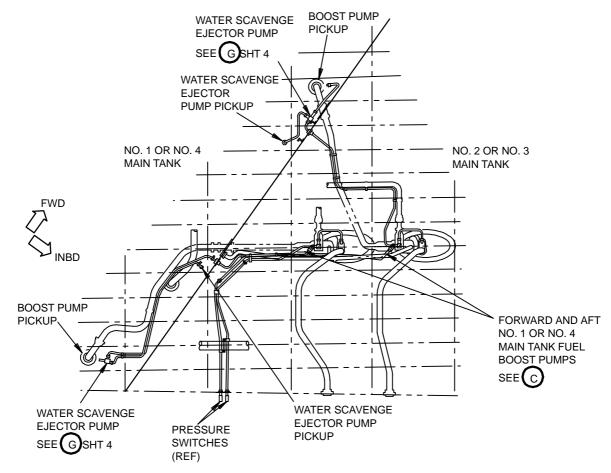
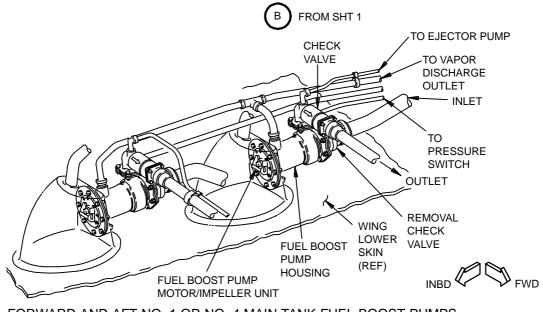


Figure 51 28-22 Engine Fuel Feed System Component Location ( Sheet 1 )

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FORWARD AND AFT NO. 1 OR NO. 4 MAIN TANK FUEL BOOST PUMPS AND FORWARD AND AFT NO. 1 OR NO. 4 MAIN TANK WATER SCAVENGE EJECTOR PUMPS

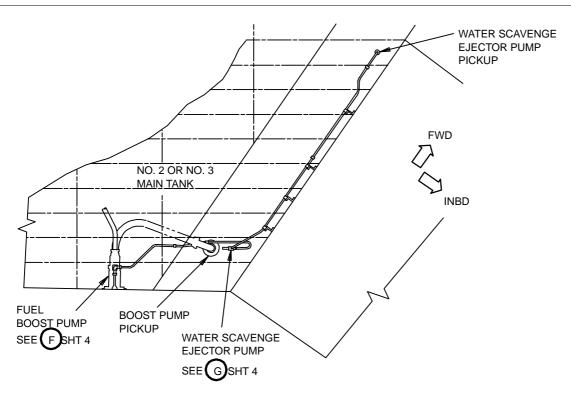


FORWARD AND AFT NO. 1 OR NO. 4 MAIN TANK FUEL BOOST PUMPS

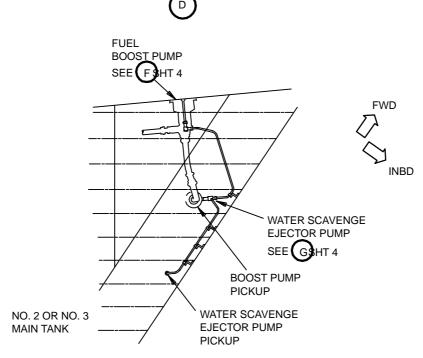
(c)

Engine Fuel Feed System - Component Location Figure 102 (Sheet 2)

Figure 52 28-22 Engine Fuel Feed System Component Location (Sheet 2)



AFT NO. 2 OR NO. 3 MAIN TANK FUEL BOOST PUMP AND AFT NO. 2 OR NO. 3 MAIN TANK WATER SCAVENGE EJECTOR PUMP



FORWARD NO. 2 OR NO. 3 MAIN TANK FUEL BOOST PUMP AND FORWARD NO. 2 OR NO. 3 MAIN TANK WATER SCAVENGE EJECTOR PUMP



Engine Fuel Feed System - Component Location (Details from Sht 1) Figure 102 (Sheet 3)

Figure 53 28-22 Engine Fuel Feed System Component Location ( Sheet 3 )



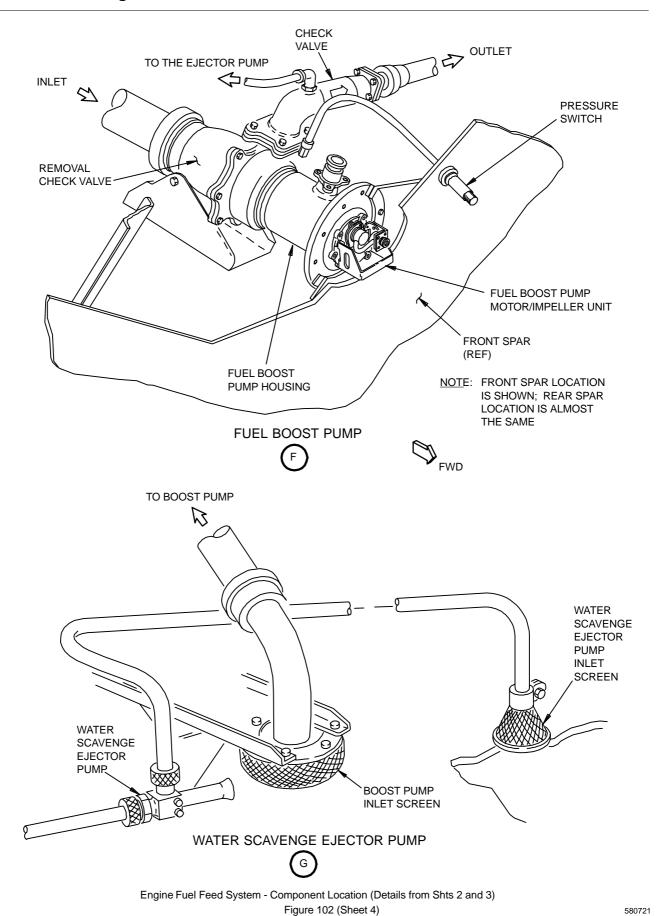
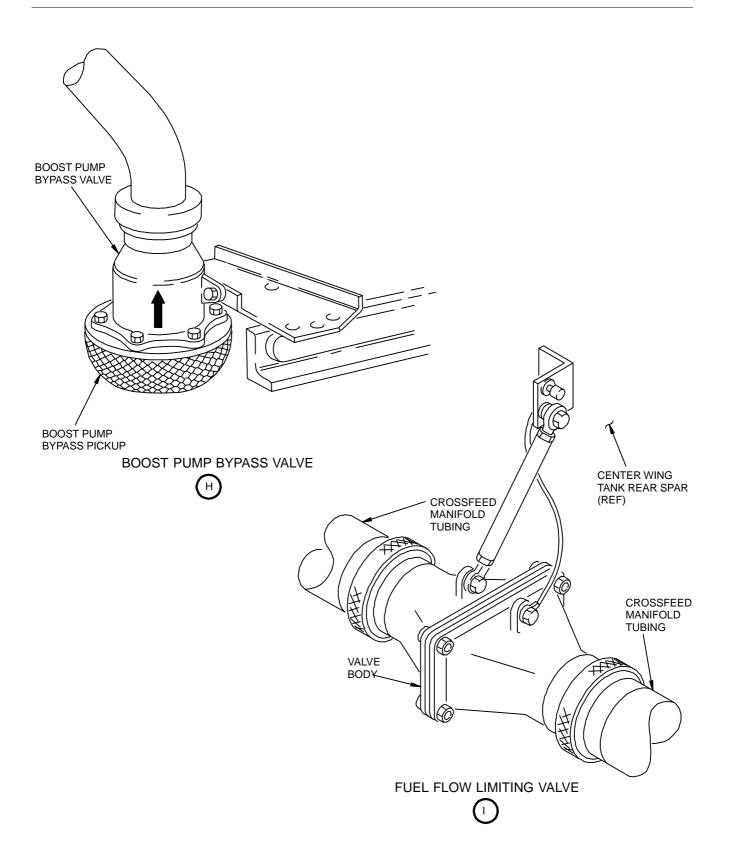


Figure 54 28-22 Engine Fuel Feed System Component Location (Sheet 4)



Engine Fuel Feed System - Component Location (Details From Sht 1)

Figure 102 (Sheet 5)

Figure 55 28-22 Engine Fuel Feed System Component Location ( Sheet 5 )



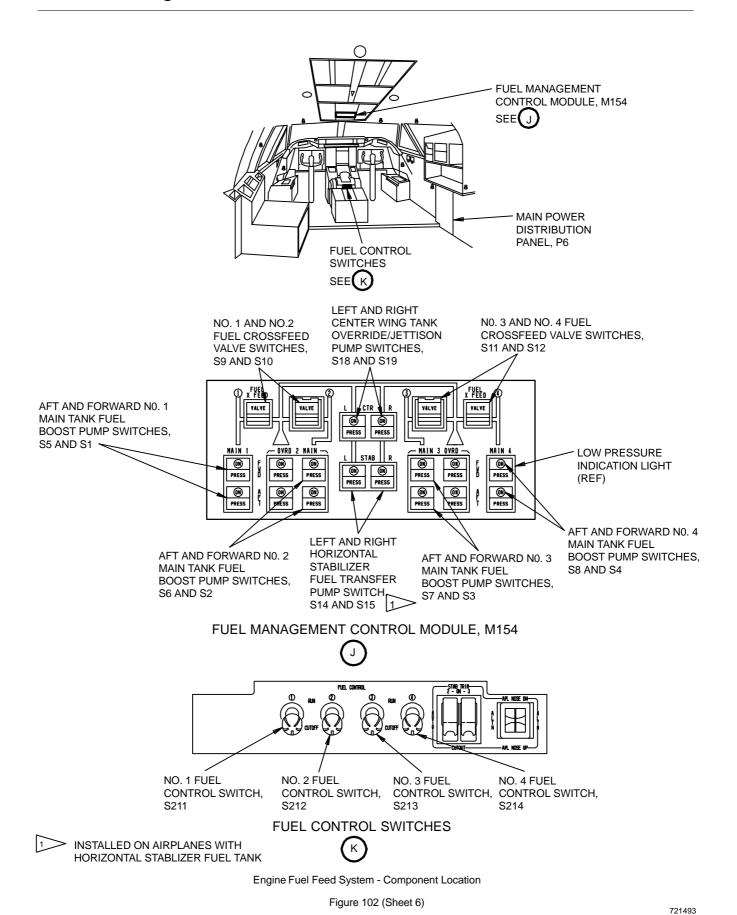


Figure 56 28-22 Engine Fuel Feed System Component Location ( Sheet 6 )

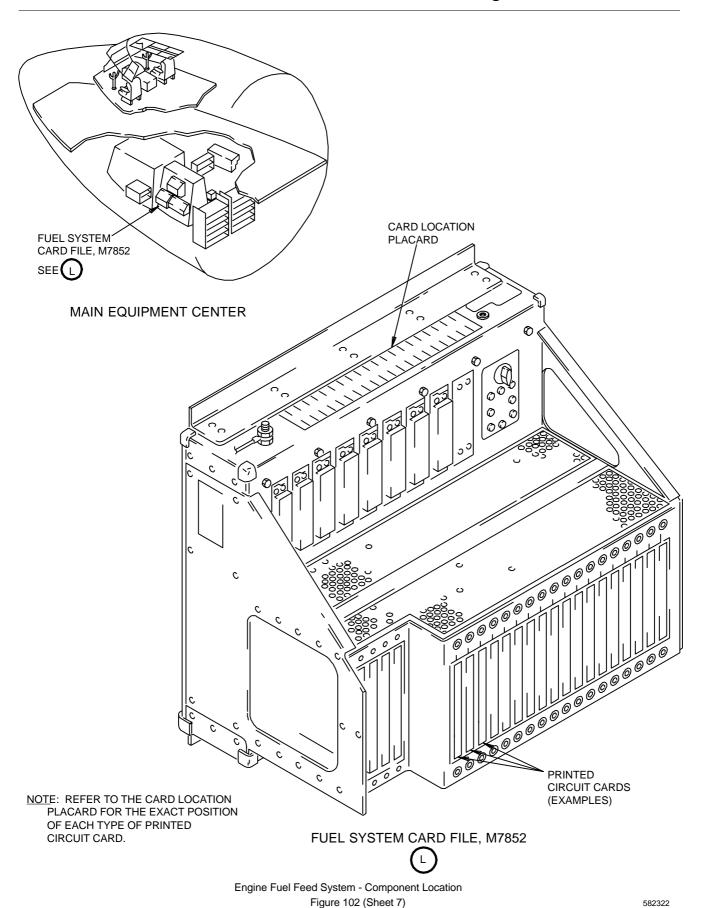


Figure 57 28-22 Engine Fuel Feed System Component Location ( Sheet 7 )



# ATA 28-25 APU FUEL FEED SYSTEM

**COMPONENT INDEX AND LOCATION** 



#### APU FUEL-FEED SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - VALVE, APU FUEL SHUTOFF, V119	1	1	LEFT REAR SPAR TO LANDING GEAR	28-25-02
ARRESTER - FLAME, APU FUEL SHROUD DRAIN CARD - (REF 28-22-00, FIG. 101) FUEL SYSTEM EICAS INTERFACE - MAIN, Y5BA14 FUEL SYSTEM EICAS INTERFACE - SLAVE, Y5BA15 VALVE POSITION LOGIC 4, Y5BA12	2,3	2	SUPPORT BEAM RIGHT BODY LANDING GEAR WELL	28-25-00
CIRCUIT BREAKERS - DC FUEL PUMP APU, C408 FUEL SHUTOFF VALVE APU, C406 DIODE - (REF 30-01-36, FIG. 101) AFT BOOST PUMP 2, M226		1 1	FLT COMPT, P6 6H18 6G5	*
DRAIN - APU FUEL SUPPLY LINE SHROUD FILE - FUEL SYSTEM CARD, M7852	2,3	2 1	RIGHT BODY LANDING GEAR WELL LEFT AREA BETWEEN NOSE GEAR WELI AND FUSELAGE	28-25-00 *
LINE - APU FUEL-FEED, FORWARD OF THE REAR SPAR	3		131AZ,131BZ,131CZ,131DZ,544AB, LEFT CENTER SECTION WING BOX, INBD MAIN TANK (PART), LEFT MID SPAR TO REAR SPAR	28-25-04
LINE - APU FUEL-FEED, AFT OF THE REAR SPAR TO THE APU FIREWALL	3		146AZ,312A,315A, RIGHT WING LANDING GEAR WELL, RIGHT AFT CARGO CONTAINER COMPARTMENT, RIGHT AREA AFT OF BULK CARGO COMPARTMENT, RIGHT AREA AFT OF PRESSURE BULKHEAD, RIGHT STABILIZER TORSION BOX COMPART- MENT, RIGHT AREA AFT OF STABILIZER BOX COMPARTMENT	28-25-04
POPPET - PRIMARY, APU FUEL LINE SHROUD DRAIN VALVE	2	1	KEEL BEAM (PART)	28-25-07
POPPET - SECONDARY, APU FUEL LINE SHROUD DRAIN VALVE		1	RIGHT BODY LANDING GEAR WELL	28-25-08
PUMP - APU FUEL BOOST, M713	1,4	1	LEFT REAR SPAR TO LANDING GEAR SUPPORT BEAM	28-25-01
RECEIVER - APU FUEL BOOST PUMP  RELAY - (REF 31-01-39, FIG. 101)  APU FUEL CONT, R7200  RELAY - (REF 49-11-00, FIG. 101)  APU FUEL BOOST PUMP CONT, R295	4	1	544AB, LEFT MID SPAR TO REAR SPAR INBD MAIN TANK	28-25-09

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

APU Fuel-Feed System - Component Index

Figure 101 (Sheet 1)

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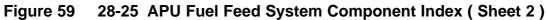
Figure 58 28-25 APU Fuel Feed System Component Index ( Sheet 1 )



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SHROUD - APU FUEL SUPPLY LINE  SWITCH - (REF 26-15-00, FIG. 101) APU FIRE, S246	3		146AZ,312A,315A, RIGHT WING LANDING GEAR WELL, RIGHT AFT CARGO CONTAINER COMPARTMENT, RIGHT AREA AFT OF BULK CARGO COMPARTMENT, RIGHT AREA AFT OF PRESSURE BULKHEAD, RIGHT STABILIZER TORSION BOX COMPART- MENT, RIGHT AREA AFT OF STABILIZER BOX COMPARTMENT	28-25-04
SWITCH - PRESSURE, APU DC BOOST PUMP, S435	1	1	LEFT REAR SPAR TO LANDING GEAR SUPPORT BEAM	*
SWITCH - PRESSURE, APU FUEL BOOST PUMP CONTROL, S548	1	1	LEFT REAR SPAR TO LANDING GEAR SUPPORT BEAM	28-25-06
UNIT - (REF 31-61-00, FIG. 101) C EFIS/EICAS INTERFACE, M7352 L EFIS/EICAS INTERFACE, M7353 R EFIS/EICAS INTERFACE, M7351				
VALVE - APU FUEL SHUTOFF, V119	1	1	544AB, LEFT MID SPAR TO REAR SPAR INBD MAIN TANK	28-25-10
VALVE - DRAIN, APU FUEL LINE SHROUD	2	1	RIGHT BODY LANDING GEAR WELL	28-25-00

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

APU Fuel-Feed System - Component Index Figure 101 (Sheet 2)





#### **Practical Training Handbook**

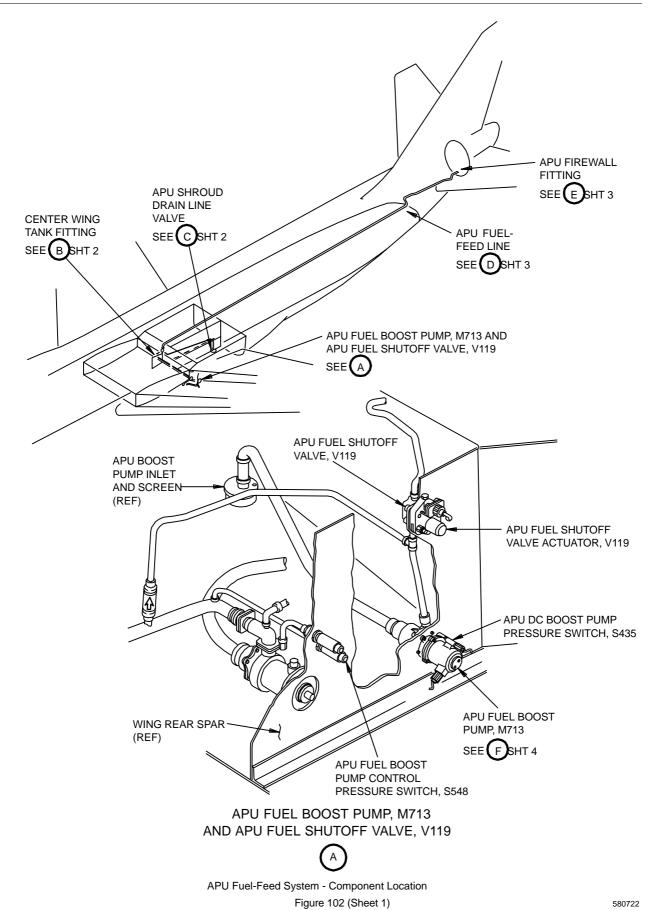
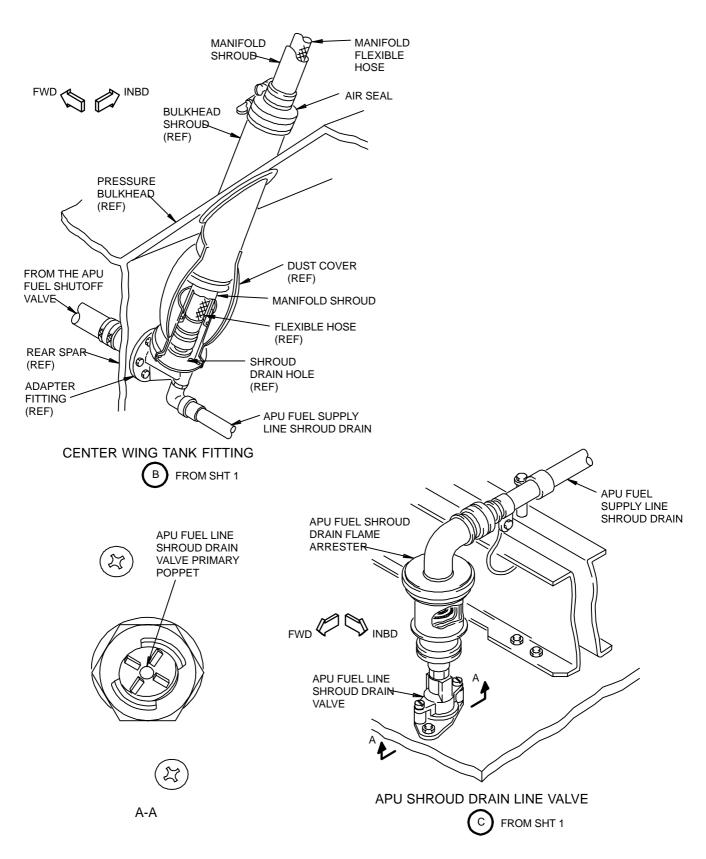


Figure 60 28-25 APU Fuel Feed System Component Location (Sheet 1)





APU Fuel-Feed System - Component Location Figure 102 (Sheet 2)

Figure 61 28-25 APU Fuel Feed System Component Location ( Sheet 2 )

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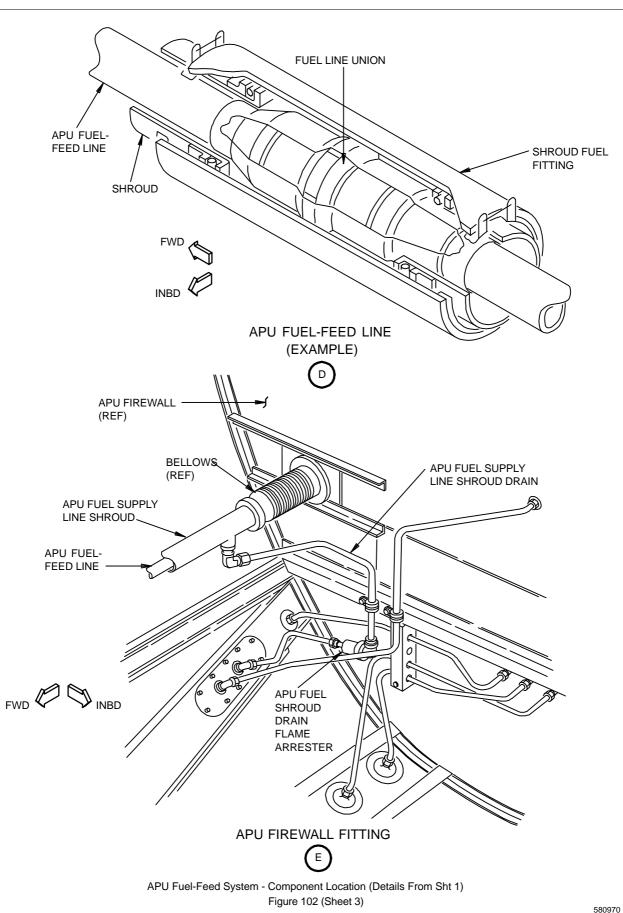
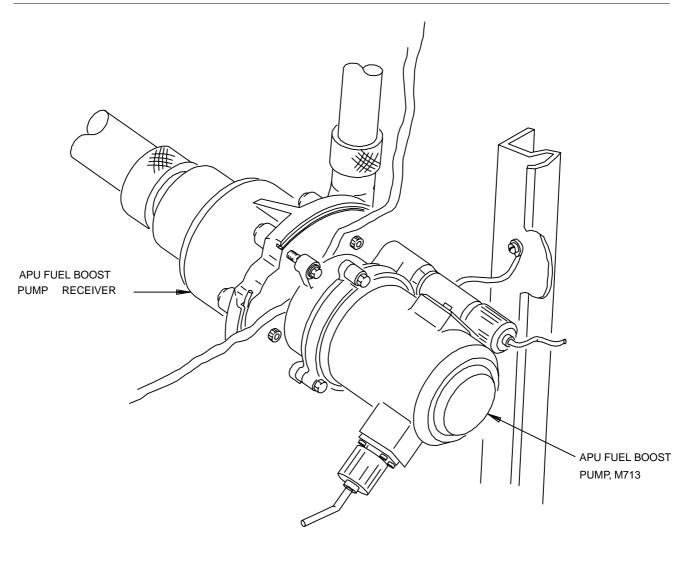


Figure 62 28-25 APU Fuel Feed System Component Location (Sheet 3)





APU FUEL BOOST PUMP, M713



APU Fuel-Feed System - Component Location (Detail From Sht 1)

Figure 102 (Sheet 4)

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Figure 63 28-25 APU Fuel Feed System Component Location ( Sheet 4 )



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## ATA 28-26 DEFUELING

**COMPONENT INDEX AND LOCATION** 



### **DEFUELING**

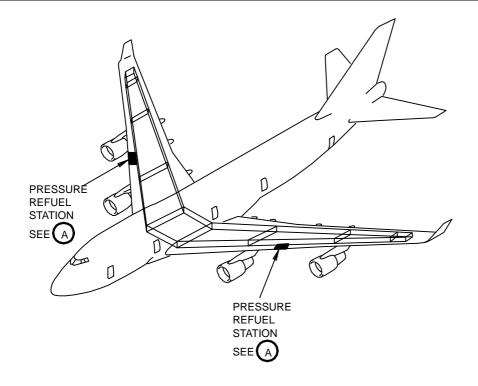
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
VALVE - LEFT WING DEFUELING CHECK	2	1	546AB, LEFT FRONT SPAR TO MID SPAR OUTBD MAIN TANK	28-26-02
VALVE - LEFT WING MANUAL DEFUELING	2	1	521BB, PRESSURE FUELING STATION	28-26-01
VALVE - RIGHT WING DEFUELING CHECK	2	1	646AB, RIGHT FRONT SPAR TO MID SPAR OUTBD MAIN TANK	28-26-02
VALVE - RIGHT WING MANUAL DEFUELING	2	1	621BB, PRESSURE FUELING STATION	28-26-01

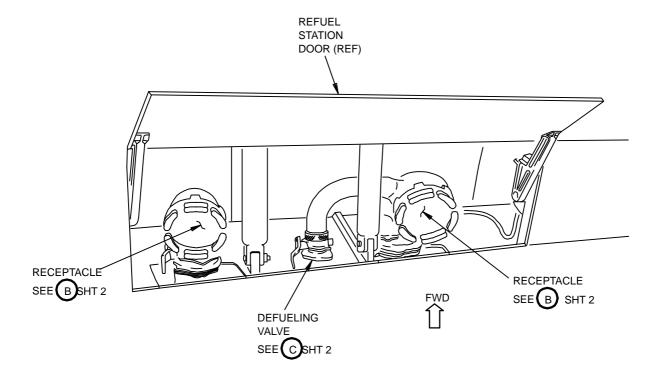
Defueling - Component Index

Figure 101







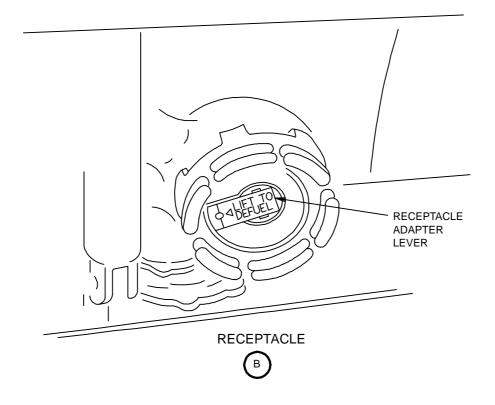


PRESSURE REFUEL STATION



Defueling - Component Location Figure 102 (Sheet 1)

Figure 65 28-26 Defueling Component Location (Sheet 1)



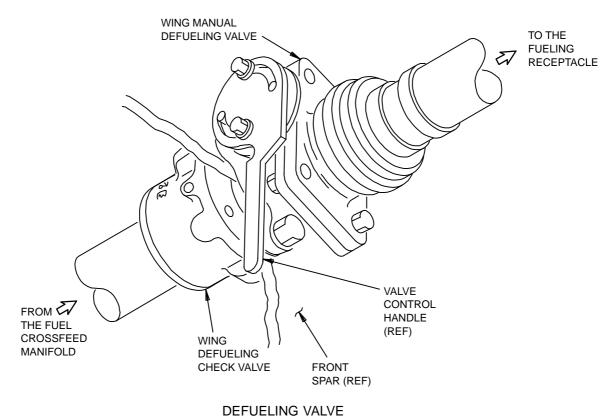


Figure 66 28-26 Defueling Component Location ( Sheet 2 )

Defueling - Component Location (Details From Sht 1)

Figure 102 (Sheet 2)

# ATA 28-31 FUEL JETTISON SYSTEM

**COMPONENT INDEX AND LOCATION** 



#### **FUEL JETTISON SYSTEM**

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - VALVE, L FUEL JETTISON NOZZLE, V56	1	1	L FRONT SPAR TO REAR SPAR DRY BAY	28-31-05
ACTUATOR - VALVE, R FUEL JETTISON NOZZLE, V49	1	1	R FRONT SPAR TO REAR SPAR DRY	
ACTUATOR - VALVE, L CENTER WING TANK FUEL JETTISON TRANSFER, V53	2	1	BAY L WING LANDING GEAR WELL	28-31-04
ACTUATOR - VALVE, NO. 2 MAIN TANK FUEL JETTISON TRANSFER, V442	1	1	L REAR SPAR TO LANDING GEAR SUPPORT BEAM	28-31-04
ACTUATOR - VALVE, NO. 3 MAIN TANK FUEL JETTISON TRANSFER, V443	1	1	R REAR SPAR TO LANDING GEAR SUPPORT BEAM	28-31-04
ACTUATOR - VALVE, R CENTER WING TANK FUEL JETTISON TRANSFER, V52	2	1	R WING LANDING GEAR WELL	28-31-04
ADAPTER - VALVE, NO. 2 MAIN TANK FUEL JETTISON TRANSFER, V442	1	1	544AB, L REAR SPAR TO LANDING GEAR SUPPORT BEAM	28-31-13
ADAPTER - VALVE, NO. 3 MAIN TANK FUEL JETTISON TRANSFER, V443	1	1	644AB, R REAR SPAR TO LANDING GEAR SUPPORT BEAM	28-31-03
ASSEMBLY - VALVE, L CENTER WING TANK FUEL JETTISON TRANSFER, V53		1	131A2,131B2,131C2,131D2, LEFT CENTER SECTION WING BOX	28-31-06
ASSEMBLY - VALVE, L FUEL JETTISON NOZZLE, V56		1	556AB, L FRONT SPAR TO REAR SPAR DRY BAY	28-31-03
ASSEMBLY - VALVE, NO. 2 MAIN TANK FUEL JETTISON TRANSFER, V442		1	544AB, LEFT MID SPAR TO REAR SPAR INBD MAIN TANK	28-31-06
ASSEMBLY - VALVE, NO. 3 MAIN TANK FUEL JETTISON TRANSFER, V443		1	644AB, RIGHT MID SPAR TO REAR SPAR INBD MAIN TAMK	28-31-06
ASSEMBLY - VALVE, CENTER WING TANK FUEL JETTISON TRANSFER, V52		1	131A2,131B2,132A2,132B2, RIGHT CENTER SECTION WING BOX	28-31-06
ASSEMBLY - VALVE, R FUEL JETTISON NOZZLE, V49		1	656AB, R FRONT SPAR TO REAR SPAR DRY BAY	28-31-03
CARD - FUEL JETTISON CONTROL A, Y5BA7		1	117AL, MAIN EQUIP CTR, FUEL SYSTEM CARD FILE, M7852	28-31-15
CARD - FUEL JETTISON CONTROL B, Y5BA8		1	L AREA BETWEEN NOSE GEAR WELL AND FUSELAGE, FUEL SYSTEM CARD FILE, M7852	28-31-15
CARD - (REF 28-22-00, FIG. 101) FUEL SYSTEM EICAS INTERFACE MAIN, Y5BA14 FUEL SYSTEM EICAS INTERFACE SLAVE, V5BA15 FUEL SYSTEM MANAGEMENT A, Y5BA5 FUEL SYSTEM MANAGEMENT B, Y5BA10 JET M2/M3 SINGLE POINT SENSOR CONTROL, Y5BA4 VALVE POSITION LOGIC 1, Y5BA6 VALVE POSITION LOGIC 2, Y5BA9 VALVE POSITION LOGIC 3, Y5BA11 VALVE POSITION LOGIC 4, Y5BA12				

Fuel Jettison System - Component Index

Figure 101 (Sheet 1)

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Figure 67 28-31 Fuel Jettison System Compenent Index ( Sheet 1 )



	Í			1
	FIG.			
COMPONENT	102	QTY	ACCESS/AREA	REFERENCE
	_			
	SHT			
CIRCUIT BREAKERS -	3		FLT COMPT, P6	
CTR L & MAIN 3 JTSN VLV, C10132		1	6F17	*
CTR R & MAIN 2 JTSN VLV, C10133		1	6E17	*
FUEL JTSN PUMP CONT A, C10135		1	6D17	*
FUEL JTSN PUMP CONT B, C10134		1	6C17	*
JTSN NOZZLE VLV CONT L, C85		1	6D18	*
JTSN NOZZLE VLV CONT R, C84		1	6C18	*
CIRCUIT BREAKERS -			117AL, MAIN EQUIP CTR, P180	
JTSN PUMP CONT 2 & 3 INBD, C1072		l 1	180E18	*
JTSN PUMP CONT 2 & 3 OUTBD, C1071		l 1	180E3	*
OVRD/JTSN PUMP CONT L CTR, C19		l 1	180E2	*
OVRD/JTSN PUMP CONT R CTR, C20		l 1	180H18	*
CIRCUIT BREAKERS -			117AL, MAIN EQUIP CTR, P414	
FUEL JTSN PUMP FWD 2, C833		1 1	414C2	*
FUEL JTSN PUMP FWD 3, C838		1 1	414C5	*
FUEL JTSN/OVRD PUMP CTR LEFT, C835		1	414D2	*
CIRCUIT BREAKERS -			117AL, MAIN EQUIP CTR, P415	
FUEL JTSN PUMP AFT 2. C834		1 1	415A38	*
FUEL JTSN PUMP AFT 3, C837			415B38	*
FUEL JTSN/OVRD PUMP CTR RIGHT, C836			415M32	*
DETECTOR - FAULT CURRENT, L CENTER WING		l i	L E&E COMP	28-31-14
TANK FUEL OVERRIDE/JETTISON PUMP, M473				
DETECTOR - FAULT CURRENT, R CENTER WING		1 1	R E&E COMP	28-31-14
TANK FUEL OVERRIDE/JETTISON PUMP, M472				
DETECTOR - FAULT CURRENT, NO. 2 MAIN TANK		1 1	L E&E COMP	28-31-14
INBD (AFT), M7867				
DETECTOR - FAULT CURRENT, NO. 2 MAIN TANK		1 1	R E&E COMP	28-31-14
OUTBD (FWD), M7869		l '	IN EGE CONT	200117
DETECTOR - FAULT CURRENT, NO. 3 MAIN TANK		1 1	L E&E COMP	28-31-14
INBD (AFT), M7866		l '	L Luc Oomi	200117
DETECTOR - FAULT CURRENT, NO. 3 MAIN TANK		1 1	R E&E COMP	28-31-14
OUTBD (FWD), M7868		' '	I Lac oown	20-31-14
FILE - FUEL SYSTEM CARD, M7852		1 1	L AREA BETWEEN NOSE GEAR WELL	*
THE TOLE OF OTHER DAILD, WITOUZ		'	AND FUSELAGE	
HOUSING - FUEL OVERIDE/JETTISON PUMP	1.2	6	ONE PER FUEL OVERRIDE/JETTISON	28-31-07
TIGOGING TOLL OVERIDE/JETTIGON TOWN	',∠		PUMP	20-31-07
MANIFOLD - FUEL JETTISON			1 Olvii	
MODULE - FUEL MANAGEMENT CONTROL, M154	3	1	FLT COMPT, P5	
MODULE - FOEL MANAGEMENT CONTROL, M154  MODULE - JETTISON, M7325	3		FLT COMPT, P5	
INIODOLL - JET HOON, INI/ 323		<u>'</u>	I LI GOIVIF I, FO	

<sup>\*</sup> SEE THE WDM EQUIPMENT LIST

Fuel Jettison System - Component Index

Figure 101 (Sheet 2)





COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
PUMP - L CENTER WING FUEL OVERRIDE JETTISON M224 PUMP - NO. 2 MAIN TANK INBD (AFT) FUEL OVERRIDE/JETTISON, M223 PUMP - NO. 2 MAIN TANK OUTBD (FWD) FUEL OVERRIDE/JETTISON, M222 PUMP - NO. 3 MAIN TANK INBD (AFT) FUEL OVERRIDE/JETTISON, M226 PUMP - NO. 3 MAIN TANK OUTBD (FWD) FUEL OVERRIDE/JETTISON, M227 PUMP - R CENTER WING FUEL OVERRIDE/JETTISON, M225 RELAY - (REF 31-01-24, FIG. 101) CENTER L JETTISON TRANSFER VALVE CONTROL, R7405 CENTER R JETTISON TRANSFER VALVE CONTROL, R7406 MAIN 2 JETTISON TRANSFER VALVE CONTROL, R7407 MAIN 3 JETTISON TRANSFER VALVE CONTROL, R7408 RELAY - (REF 31-01-36, FIG. 101) CENTER L FUEL TANK OVERRIDE/JETTISON PUMP, R43 JETTISON A OVERRIDE, R7409 JETTISON PUMP 2 OUTBD, R41 JETTISON PUMP 3 OUTBD, R46 MANAGEMENT JETTISON SELECT, R7413,R7414 RELAY - (REF 31-01-39, FIG. 101) CENTER R FUEL TANK OVERRIDE/JETTISON PUMP, R44 JETTISON B OVERRIDE, R7410 JETTISON PUMP 2 INBD, R42 JETTISON PUMP 3 INBD, R45 MANAGEMENT JETTISON SELECT, R7411,R7412		1 1 1 1 1 1	131EZ,131AZ,131BZ,131CZ,131DZ, L CTR SECTION WING BOX 544AB, L MID SPAR TO REAR SPAR INBD MAIN TANK 544AB, L MID SPAR TO REAR SPAR INBD MAIN TANK 644AB, R MID SPAR TO REAR SPAR INBD MAIN TANK 644AB, R MID SPAR TO REAR SPAR INBD MAIN TANK 131EZ,131AZ,131BZ,132AZ,132BZ, R CTR SECTION WING BOX	KEI EKENGE

Fuel Jettison System - Component Index

Figure 101 (Sheet 3)





	FIG.			
COMPONENT	102	QTY	ACCESS/AREA	REFERENCE
	SHT			
	3111			
SWITCH - LEFT CENTER WING TANK OVERRIDE/	3	1	FLT COMPT, P5, FUEL MANAGEMENT	*
JETTISON PUMP, S18			CONTROL MODULE, M154	
SWITCH - FORWARD NO. 2 MAIN TANK OVERRIDE/	3	1	FLT COMPT, P5, FUEL MANAGEMENT	*
JETTISON PUMP, S13			CONTROL MODULE, M154	
SWITCH - FORWARD NO. 3 MAIN TANK OVERRIDE/	3	1	FLT COMPT, P5, FUEL MANAGEMENT	*
JETTISON PUMP, S16			CONTROL MODULE, M154	
SWITCH - JETTISON SYSTEM SELECT (S10)	3	1	FLT COMPT, P5, JETTISON MODULE,	*
	_		M7325	
SWITCH - LEFT FUEL JETTISON NOZZLE VALVE,	3	1	FLT COMPT, P5, JETTISON MODULE,	*
S8			M7325	
SWITCH - AFT NO. 2 MAIN TANK OVERRIDE/	3	1	FUEL COMPT, P5, FUEL MANAGEMENT	,
JETTISON PUMP, S17	3	1 1	CONTROL MODULE, M154	*
SWITCH - AFT NO. 3 MAIN TANK OVERRIDE/	3	1	FLT COMPT, P5, FUEL MANAGEMENT	
JETTISON PUMP, S20 SWITCH - RIGHT CENTER WING TANK OVERRIDE/	3	1 1	CONTROL MODULE, M154 FLT COMPT, P5, FUEL MANAGEMENT	*
JETTISON PUMP. S19	٥	'	CONTROL MODULE, M154	
UNITS - (31-61-00/101)			CONTROL WODULE, WI154	
EFIS/EICAS INTERFACE, M7352				
EFIS/EICAS INTERFACE, M7353				
EFIS/EICAS INTERFACE, M7351				
UNIT - MOTOR/IMPELLER, L CENTER WING TANK	2	1 1	L WING LANDING GEAR WELL	28-31-01
FUEL OVERRIDE/JETTISON PUMP, M224	~	l '	E WING EXAMINATION OF A CALLED	200.01
UNIT - MOTOR/IMPELLER, NO. 2 MAIN TANK	1	1 1	L REAR SPAR TO LANDING GEAR	28-31-01
AFT FUEL OVERRIDE/JETTISON PUMP, M223			SUPPORT BEAM	
UNIT - MOTOR/IMPELLER, NO. 2 MAIN TANK	1	1	L REAR SPAR TO LANDING GEAR	28-31-01
FORWARD FUEL OVERRIDE/JETTISON PUMP, M222			SUPPORT BEAM	
UNIT - MOTOR/IMPELLER, NO. 3 MAIN TANK	1	1	R REAR SPAR TO LANDING GEAR	28-31-01
AFT FUEL OVERRIDE/JETTISON PUMP, M226			SUPPORT BEAM	
UNIT - MOTOR/IMPELLER, NO. 3 MAIN TANK	1	1	R REAR SPAR TO LANDING GEAR	28-31-01
FORWARD FUEL OVERRIDE/JETTISON PUMP, M227			SUPPORT BEAM	
UNIT - MOTOR/IMPELLER, R CENTER WING TANK	2	1	R WING LANDING GEAR WELL	28-31-01
FUEL OVERRIDE/JETTISON PUMP, M225				
VALVE - CHECK, FUEL OVERRIDE/JETTISON PUMP	1,2	6	ONE PER FUEL OVERRIDE/JETTISON	28-31-1 1
DISCHARGE			PUMP	
VALVE - CHECK, FUEL OVERRIDE/JETTISON PUMP	1,2	6	ONE PER FUEL OVERRIDE/JETTISON	28-31-12
INLET			PUMP	

<sup>\*</sup>SEE THE WDM EQUIPMENT LIST

Fuel Jettison System - Component Index

Figure 101 (Sheet 4)





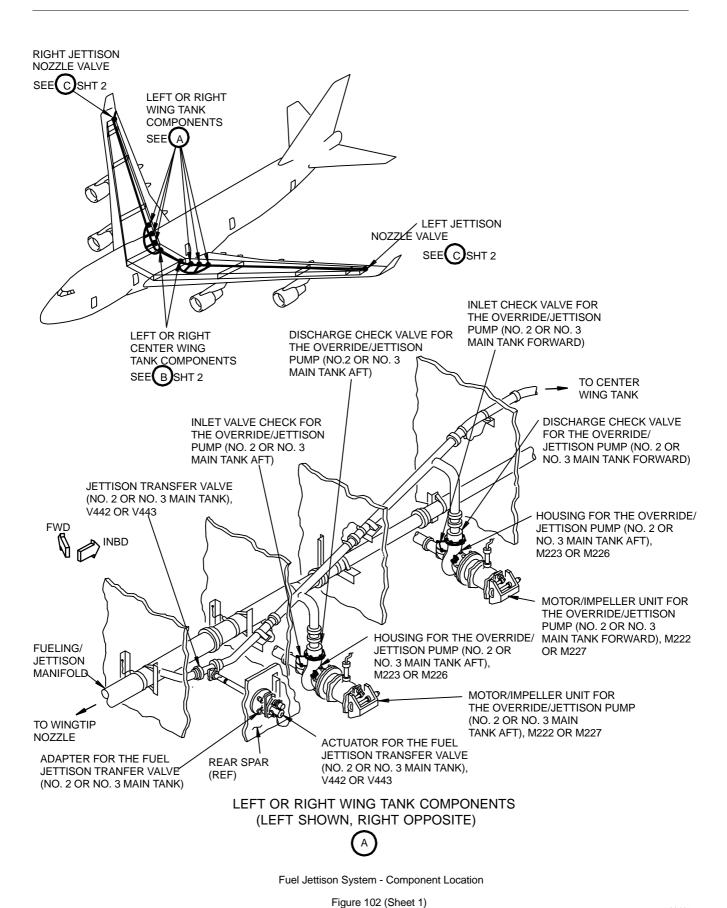
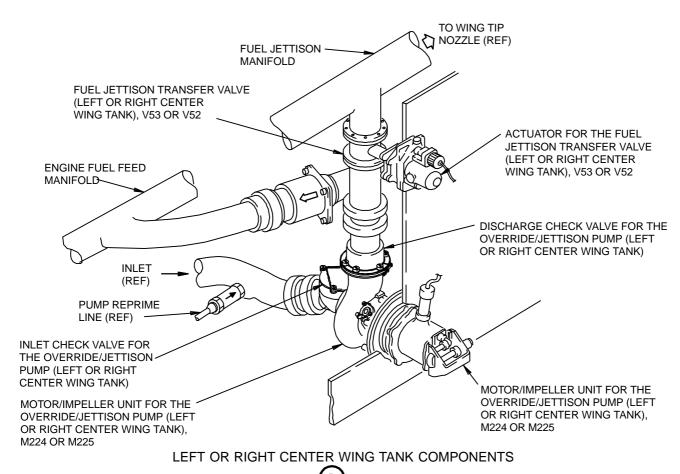


Figure 71 28-31 Fuel Jettison System Component Location (Sheet 1)



WING SURGE
TANK (REF)

ACTUATOR FOR THE LEFT
OR RIGHT FUEL JETTISON
NOZZLE VALVE, V56 OR V49

FUEL JETTISON
MANIFOLD
LEFT OR RIGHT JETTISON NOZZLE VALVE
(LEFT SHOWN, RIGHT OPPOSITE)

C

Fuel Jettison System - Component Location (Details From Sht 1)

Figure 102 (Sheet 2)

Figure 72 28-31 Fuel Jettison System Component Location ( Sheet 2 )



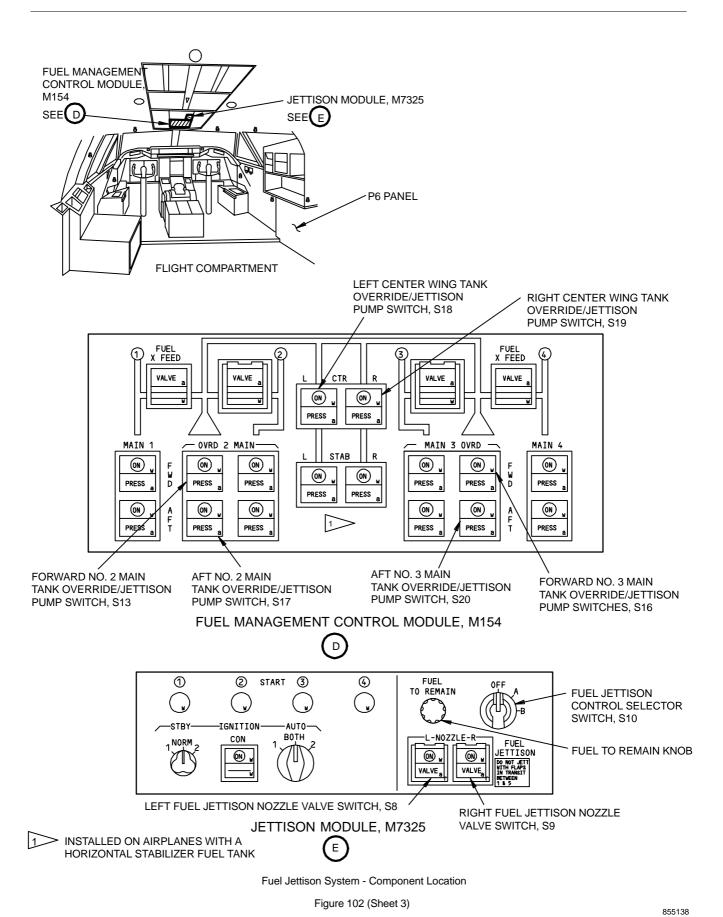


Figure 73 28-31 Fuel Jettison System Component Location ( Sheet 3 )

# ATA 28-41 FUEL QUANTITY INDICATION SYSTEM

**COMPONENT INDEX AND LOCATION** 



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