# CHAPTER 49 AIRBORNE AUXILIARY POWER



## **WIRING DIAGRAM MANUAL**

### CHAPTER 49 AIRBORNE AUXILIARY POWER

	CH-SC-SU	Schem	Page	Sheet	Date		CH-SC-SU	Schem	Page	Sheet	Date	
49-	-EFFECTIVE	PAGES										
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49- R	-CONTENTS	•	1		Jun 21/2016							
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49-	49-ALPHABETICAL INDEX											
			1		Aug 15/2013							
	49-31-31		2		BLANK							
R	49-31-31		1		Jun 21/2016							
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R			1		Jun 21/2016							
	49-52-31											
R			1 2		Oct 14/2015 Jun 21/2016							
П	49-62-11		2		Juli 21/2016							
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R	49-62-12		1		Jun 21/2016							
П	49-62-51		'		Juli 21/2010							
R			1		Jun 21/2016							
	49-71-21											
R	40.04.04		1		Jun 21/2016							
R	49-94-21		1		Jun 21/2016							
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A = Added, R = Revised, D = Deleted, O = Overflow



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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
PU FUEL SYSTEM						
PU FUEL BOOST PUMP ONTROL	49-31-31		1		Jun 21/2016	ALL
PU IGNITION AND START SY	/STEM					
PU IGNITION AND FARTING SYSTEM	49-41-11		1		Jun 21/2016	ALL
PU BLEED AIR SYSTEM						
PU BLEED AIR AND SURGE ONTROL SYSTEM	49-52-31		1		Oct 14/2015	YT101-YT115 YT126-YT131
			2		Jun 21/2016	YT116-YT120 YT132-YT133
PU CONTROL SYSTEM						
PU CONTROL- AIRPLANE TERFACE	49-62-11		1	1	Jun 21/2016	ALL
				2	Jun 21/2016	ALL
				3	Jun 21/2016	ALL
PU CONTROL- APU TERFACE	49-62-12		1		Jun 21/2016	ALL
CU PINOUT	49-62-51		1		Jun 21/2016	ALL
GT INDICATING SYSTEM						
PU EGT SYSTEM	49-71-21		1		Jun 21/2016	ALL
PU OIL INDICATING SYSTEM	<u>1</u>					
PU OIL SYSTEM	49-94-21		1		Jun 21/2016	ALL



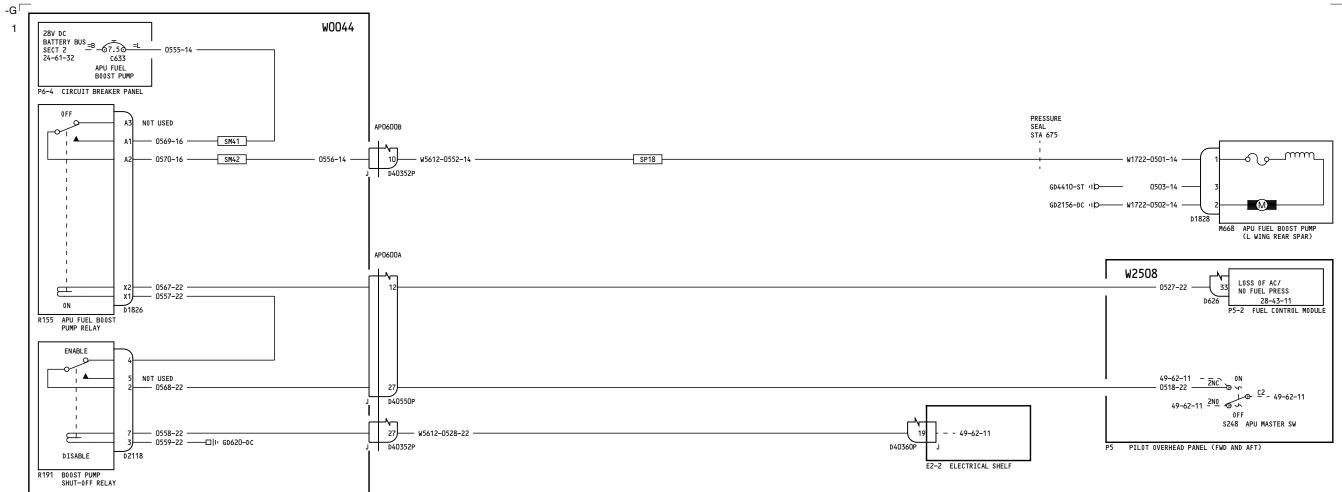
### CHAPTER 49 AIRBORNE AUXILIARY POWER

CH-SC-SU	Title
49-52-31	APU BLEED AIR AND SURGE CONTROL SYSTEM
49-62-11	APU CONTROL- AIRPLANE INTERFACE
49-62-12	APU CONTROL- APU INTERFACE
49-71-21	APU EGT SYSTEM
49-31-31	APU FUEL BOOST PUMP CONTROL
49-41-11	APU IGNITION AND STARTING SYSTEM
49-94-21	APU OIL SYSTEM
49-62-51	ECU PINOUT



P6 LOAD CONTROL CENTER-RIGHT

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APU FUEL BOOST PUMP CONTROL

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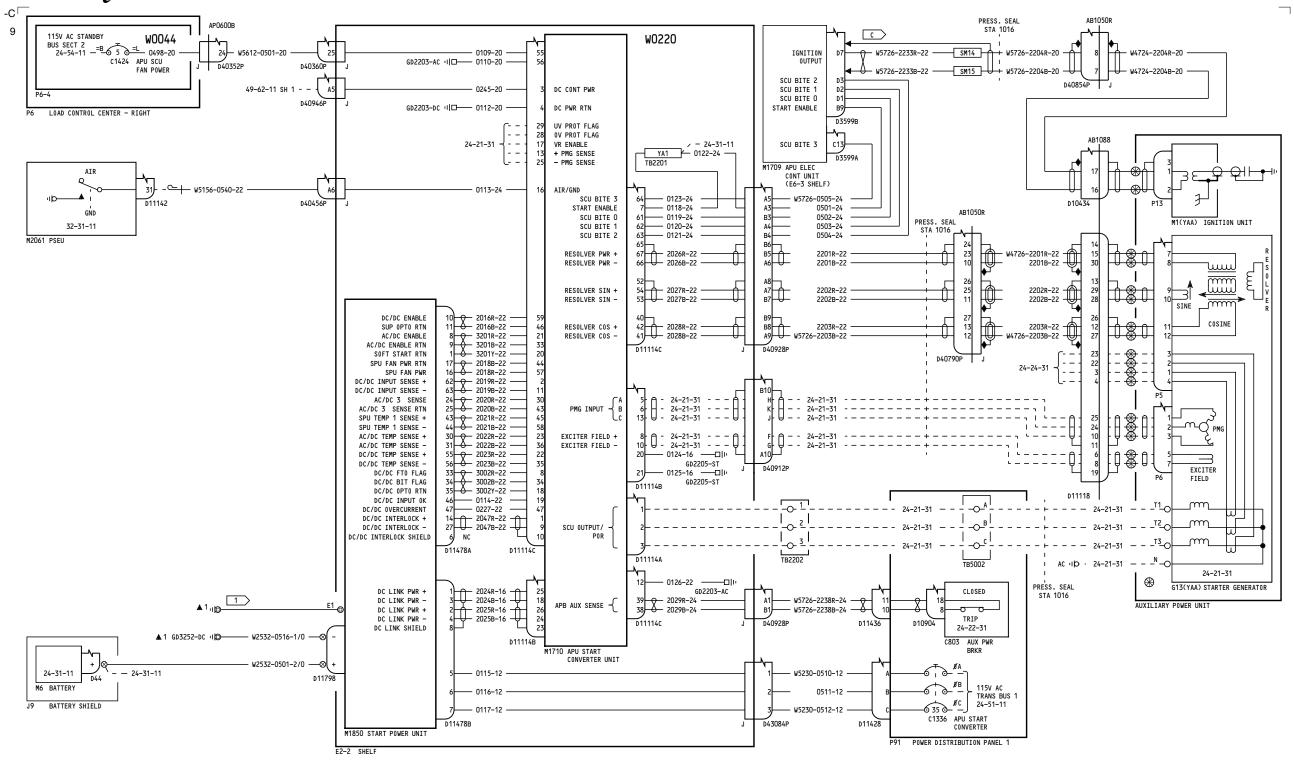
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### 737-800 WIRING DIAGRAM MANUAL



### NOTES:

1 BONDING JUMPER GROUND SIZED FOR CURRENT OF 2500 AMPS INSTALLED BY EQUIPMENT INSTALLATION.

APU IGNITION
AND STARTING SYSTEM

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W0410 YB61 - - 21-51-11 28V DC = L PACK ON W5726-0509-24 - 0033-24 TB4101 YB63 TB4101 - 21-51-21 - 21-51-21 32-64-11 GND = APU BLEED ON 0508-24 GND W0321 28V DC = R PACK ON 0510-24 TB4101 — YA63 - - - 36-11-11 11D-0w5726-0507-24 — W5726-0522-22 W5160-0612-22 ---GND SIG = AIR D10988 D40908P AIR D40468F D40904F E4-1 SHELF AIR/GND SYSTEM 2 E3-2 SHELF PRESS. SEAL AB1050R GD1240-DC STA 1016 M2061 PSEU 1016-20 POSITION - W5726-0516-22 SM13 + -- w5726-0564-22 W0220 28V WHEN READY TO LOAD B12- - - 21-51-11 GD1240-DC ·II--80-11-11 - - YA9 0221-24 TB2201 — W5726-0512-24 — 28V DC = MES SOLENOID W4724-1018-20 - W5726-0514-22 D40912P D3599B 「- - 49-62-12 AIRPLANE SIGNATURE 1
AIRPLANE SIGNATURE 2 D10434 E2-2 SHELF V1(YAA) BLEED VALVE D3599B W5726-2205R-22 W4724-2205R-22  $\equiv$ MOTOR SECONDARY 3201R-22 3201B-22 3201Y-22 3201R-22 3201B-22 3201Y-22 \_\_\_\_ 2206R-22 W4724-2206B-22 A15 W5726-2206B-22 V3(YAA) SURGE VALVE W5726-2207R-22 W4724-2207R-22 TORQUE MOTOR 2207B-22 2207B-22 3202R-22 3202B-22 3202Y-22 3202R-22 3202B-22 3202Y-22 CLOSE ◀ \_\_\_\_\_ B10 22U8κ-22 A10 W5726-2208B-22 - 2208R-22 - W4724-2208B-22 PRIMARY D40854P D10436 V2(YAA) INLET GUIDE VANE D9 W5726-2209R-22 D10 2209R-22 W4726-2209R-22 2209B-22 49-62-12 T12(YAA) DELTA PRESSURE SENSOR (DELTA P) 2210R-22 2210B-22 2210R-22 2210B-22 2211R-22 26-2211B-22 2211R-22 D3599A D40790P D10912 T4(YAA) TOTAL PRESSURE SENSOR (PT) M1709 APU ELECTRONIC CONTROL UNIT (E6-3 SHELF) AUXILIARY POWER UNIT

-A - 20

W0410 28V DC = L PACK ON YB61 - - 21-51-11 W5726-0509-24 - 0033-24 — TB4101 YB63 - - 80-11-11 32-64-11 TB4101 B65 0031-24 YA61 - 21-51-11 TB4101 - 21-51-21 GND = APU BLEED ON 0508-24 GND W0321 YA69 - - 21-51-21 TB4101Y 28V DC = R PACK ON 0510-24 TB4101 YA63 - - 36-11-11 TB4101 w5726-0507-24 -- W5160-0612-22 ---W5726-0522-22 0495-24 -GND SIG = AIR D10988 AIR D40468F D40908P D40904P E4-1 SHELF AIR/GND SYSTEM 2 E3-2 SHELF PRESS. SEAL STA 1016 AB1050R GD1240-DC M2061 PSEU 'I|□--- W4724-0517-20 1016-20 POSITION — w5726-0516-22 SM13 + W5726-0564-22 W0220 28V WHEN READY TO LOAD - - 21-51-11 GD1240-DC 0515-20 - T N B7)-80-11-11 - - <u>YA9</u> 0221-24 TB2201 — w5726-0512-24 — 28V DC = MES SOLENOID - W4724-1018-20 — W5726-0514-22 — 49-62-12 J D40912P D3599B AIRPLANE SIGNATURE 1 AIRPLANE SIGNATURE 2 E2-2 SHELF V1(YAA) BLEED VALVE D3599B W5726-2205R-22 W4724-2205R-22 TORQUE MOTOR SECONDARY 3201R-22 3201B-22 3201R-22 3201B-22 3201Y-22 3201Y-22 — 2206R-22 — w4724-2206B-22 V3(YAA) SURGE VALVE W4724-2207R-22 W5726-2207R-22 TORQUE MOTOR 2207B-22 3202R-22 3202B-22 3202Y-22 3202R-22 3202B-22 3202Y-22 CLOSE ◀ \_mmm - 2208R-22 - W4724-2208B-22 B10 2208R-22 A10 W5726-2208B-22 PRIMARY D40854P D10436 V2(YAA) INLET GUIDE VANE 49-62-12 -D9 W5726-2209R-22 D10 2209B-22 - W4726-2209R-22 - 2209B-22 49-62-12 T12(YAA) DELTA PRESSURE SENSOR (DELTA P) 2210R-22 2210B-22 2210R-22 2210B-22 2211R-22 2211R-22 W5726-2211B-22 D3599A D40790P

YT116-YT120, YT132-YT133

APU BLEED AIR AND SURGE CONTROL SYSTEM

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M1709 APU ELECTRONIC CONTROL UNIT

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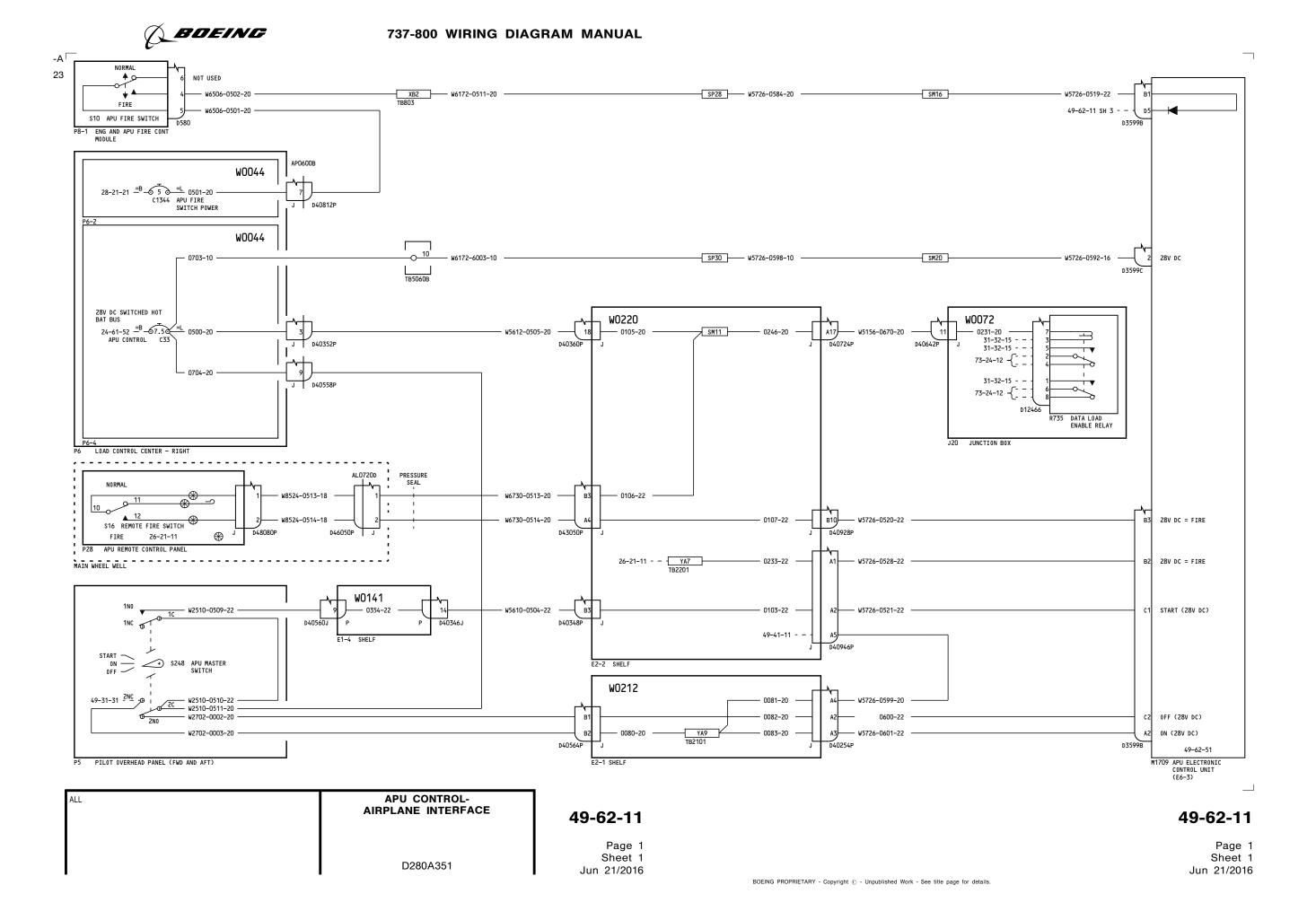
SENSOR (PT)

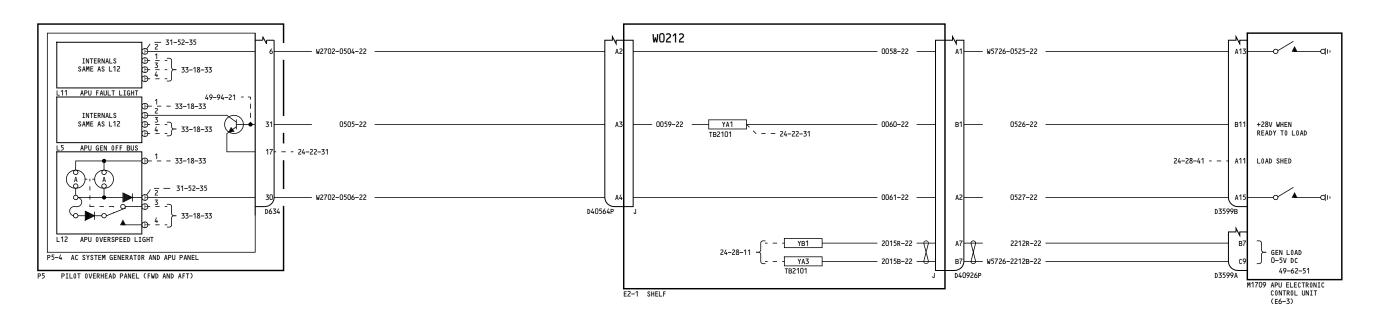
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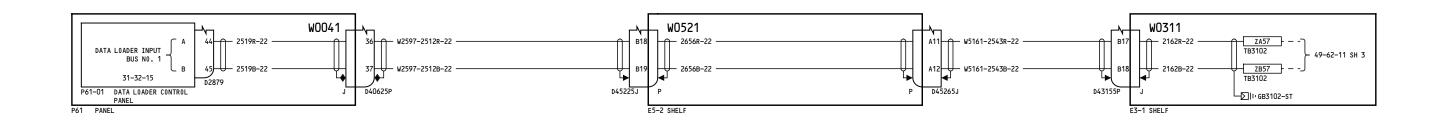
APU AUXILIARY POWER UNIT

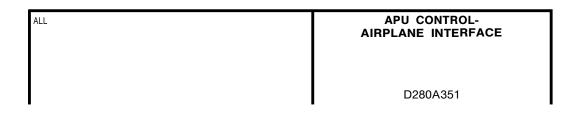
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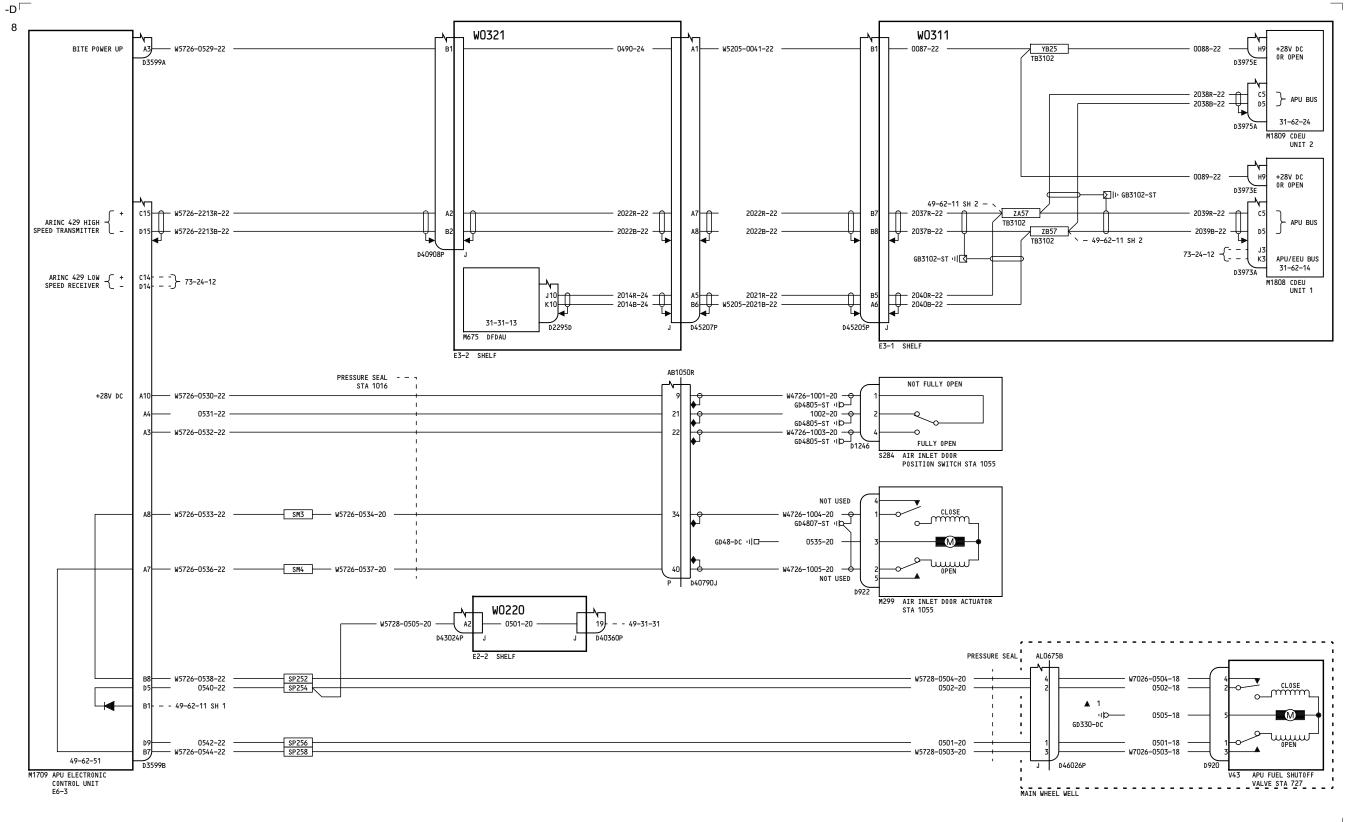




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APU CONTROL-AIRPLANE INTERFACE

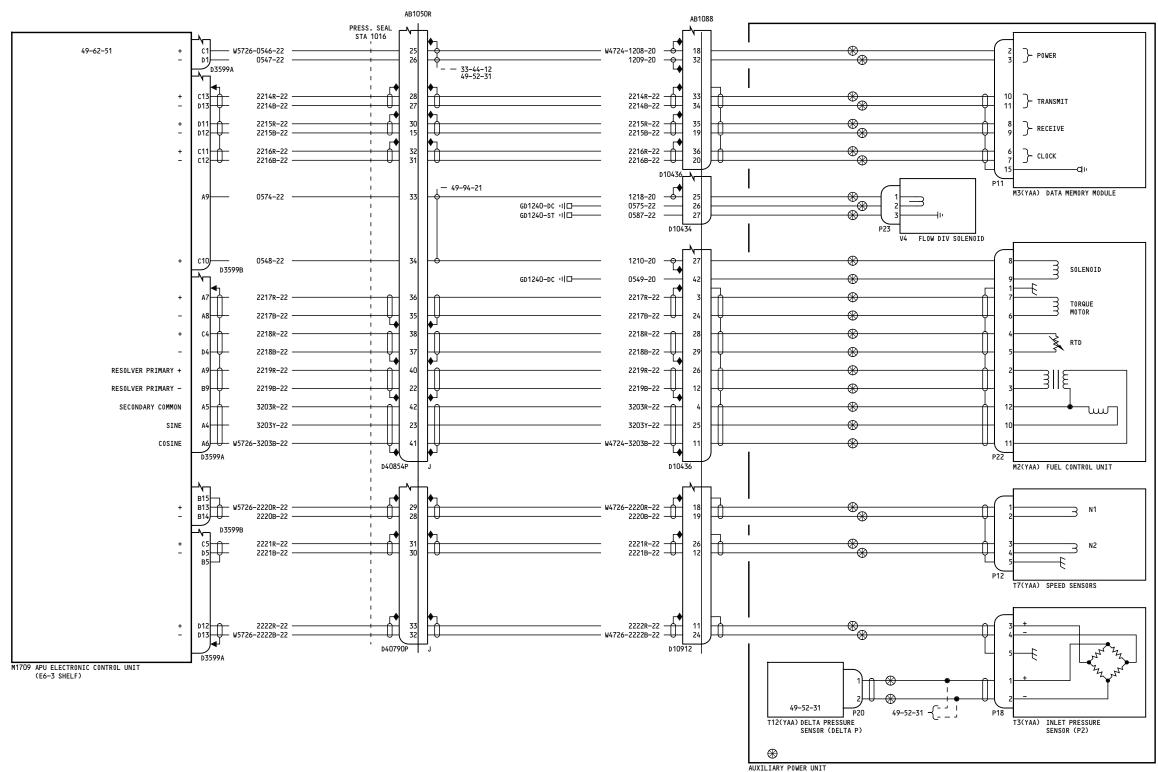
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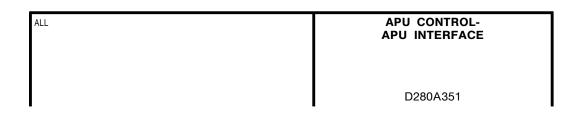
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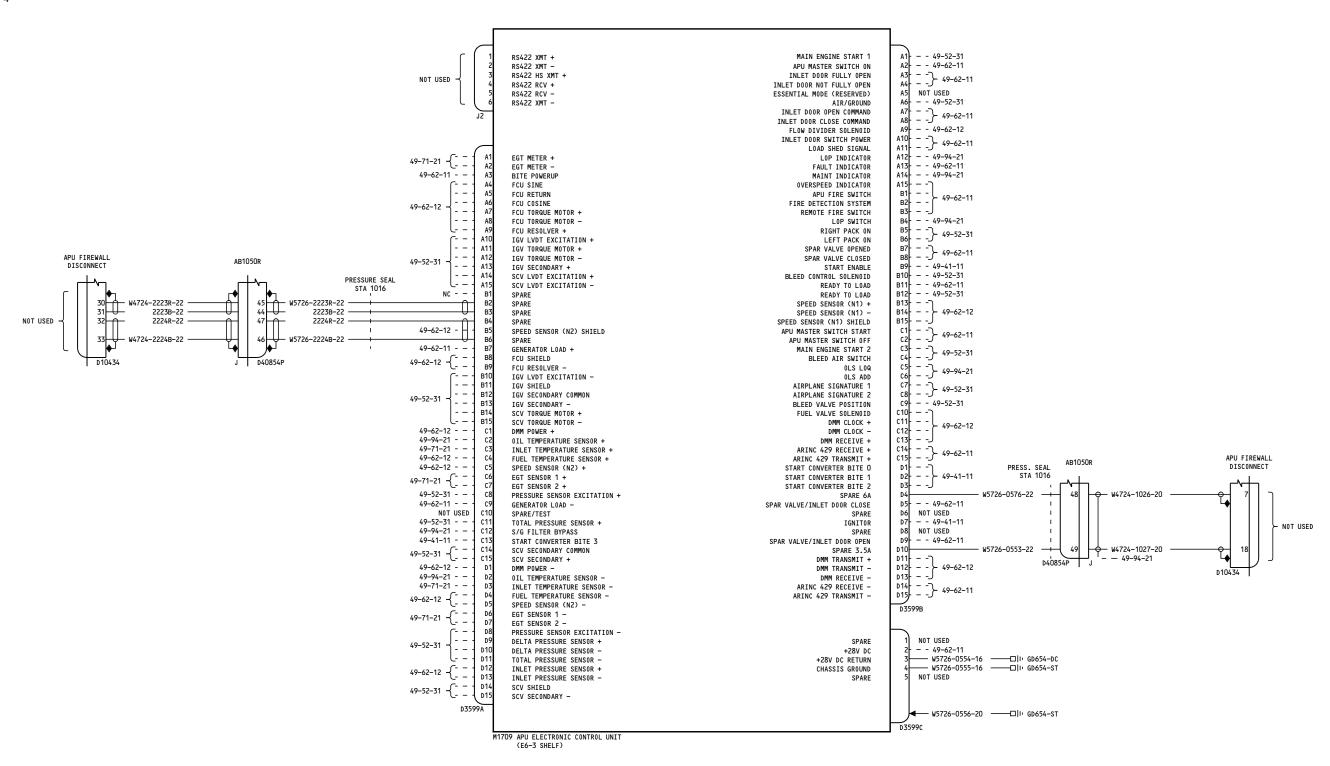
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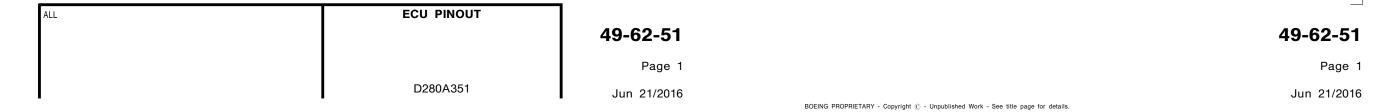
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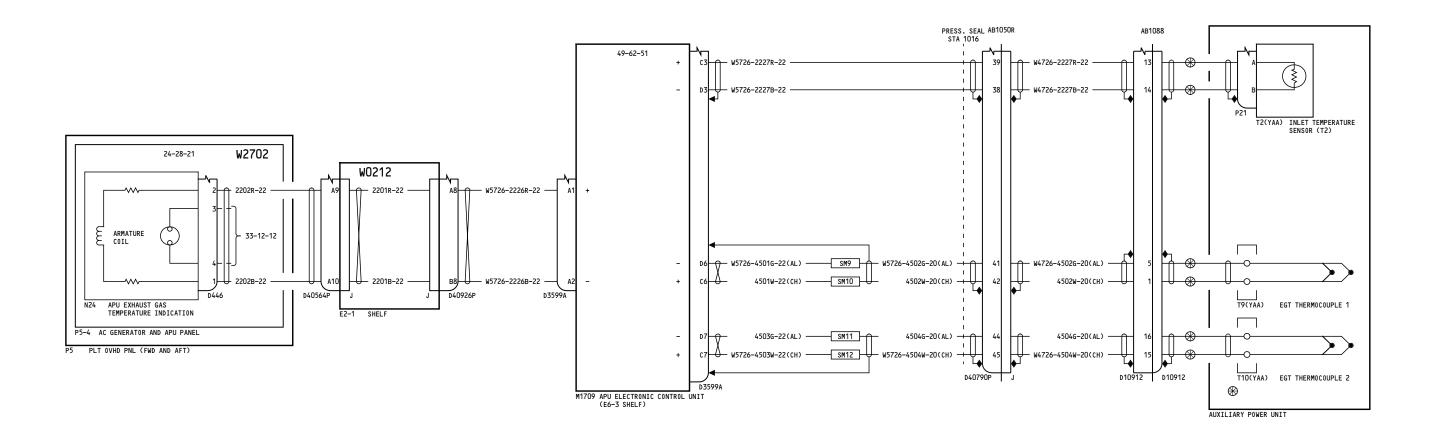
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APU EGT SYSTEM

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-G<sup>┌</sup> 4 AB1050R AB1088 PRESSURE SEAL STA 1016 24-28-21 49-62-51 W4726-2232R-22 W5726-2232B-22 W4726-2232B-22 W0212 D10912 T6(YAA) OIL TEMP SENSOR - w5726-0557-22 w2702-0507-22 -0064-22 - w4724-1033-20 S/G FILTER — W5726-0588-22 + BYPASS D3599A GD1240-DC 11□---0589-20 GD1240-ST □|□---0590-22 W2702-0508-22 - 0065-22 w5726-0558-22 -D40564P D3599B T11(YAA) S/G FILTER BYPASS SWITCH 33-18-33 L10 LOW OIL PRESSURE E2-1 SHELF 49-62-11 - - -31-52-35 - - - - - -P5-4 AC SYSTEM GEN AND APU PANEL LOP (NC=LOW) W5726-0559-22 1029-20 P5 PLT OVHD PANEL (FWD AND AFT) 0560-20 GD1240-DC T8(YAA) LOW OIL PRESSURE SWITCH NOT USED 0561-22 1035-20 W5726-0562-22 LOQ 1036-20

> M1709 APU ELECTRONIC CONTROL UNIT (E6-3 SHELF)

D40854P J

GD1240-DC 11 W4724-0563-20

1

T1(YAA) OIL LEVEL SENSOR

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AUXILIARY POWER UNIT

NOTES:

1 SHOWN IN FULL OIL POSITION WITH ENGINE OFF.

ALL	APU OIL SYSTEM			
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