

CHAPTER

31

INDICATING /

RECORDING SYSTEMS



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WIRING DIAGRAM MANUAL

CHAPTER 31
INDICATING / RECORDING SYSTEMS

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<u>CLOCK</u>						
ELECTRONIC CLOCK	31-22-11		1		Aug 15/2013	YT101-YT103
			2		Jun 21/2016	YT104-YT133
<u>FLIGHT DATA RECORDER SYSTEM</u>						
DIGITAL FLIGHT DATA RECORDER SYSTEM - INTERFACE	31-31-11		1		Jun 21/2016	ALL
DIGITAL FLIGHT DATA RECORDER SYSTEM - DIGITAL INTERFACE	31-31-13		1	1	Aug 15/2013	YT101-YT103
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			2	1	Jun 21/2016	YT104-YT133
				2	Jun 21/2016	YT104-YT133
DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE	31-31-14		1	1	Jun 21/2016	ALL
				2	Jun 21/2016	ALL
				3	Jun 21/2016	ALL
DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE	31-31-15		1	1	Aug 15/2013	YT101-YT103
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				3	Aug 15/2013	YT101-YT103
				4	Aug 15/2013	YT101-YT103
			2	1	Jun 21/2016	YT104-YT133
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				3	Jun 21/2016	YT104-YT133
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DIGITAL FLIGHT DATA RECORDER SYSTEM AIRPLANE CODING	31-31-16		1		Aug 18/2014	YT101-YT105
			2		Jun 21/2016	YT106-YT133
DIGITAL FLIGHT DATA RECORDER SYSTEM MANDATORY OPTIONS	31-31-17		1		Aug 18/2014	YT101-YT105
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<u>DATA LOADING AND RECORDING SYSTEM</u>						
DATA LOADER INTERFACE	31-32-15		1	1	Aug 15/2013	YT101

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		2	1		Nov 18/2013	YT102-YT103	
			2		Aug 15/2013	YT102-YT103	
			3		Aug 15/2013	YT102-YT103	
		3	1		Nov 18/2013	YT104	
			2		Nov 18/2013	YT104	
			3		Nov 18/2013	YT104	
		4	1		Apr 17/2014	YT105	
			2		Apr 17/2014	YT105	
			3		Apr 17/2014	YT105	
			4		Apr 17/2014	YT105	
		5	1		Jan 12/2015	YT106-YT110	
			2		Jan 12/2015	YT106-YT110	
			3		Jan 12/2015	YT106-YT110	
			4		Jan 12/2015	YT106-YT110	
		6	1		Mar 14/2016	YT111-YT120	
			2		Mar 14/2016	YT111-YT120	
			3		Mar 14/2016	YT111-YT120	
			4		Mar 14/2016	YT111-YT120	
FLIGHT COMPARTMENT PRINTING				7	1	Jun 21/2016	YT126-YT133
					2	Jun 21/2016	YT126-YT133
					3	Jun 21/2016	YT126-YT133
					4	Jun 21/2016	YT126-YT133
PRINTER INTERFACE	31-33-01			1	Aug 15/2013	YT101-YT103	
				2	Mar 14/2016	YT104-YT120	
				3	Jun 21/2016	YT126-YT133	
AIRCRAFT INTEGRATED DATA SYSTEM							
DIGITAL FLIGHT DATA RECORDER SYSTEM - DATA LOADER INTERFACE	31-35-01			1	Apr 17/2014	YT101-YT104	
				2	Jun 21/2016	YT105-YT133	

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DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE 3	31-35-03		1		Jun 21/2016	ALL
DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE	31-35-04		1		Nov 18/2013	YT101-YT103
			2		May 15/2015	YT104-YT112 YT126-YT131
			3		Oct 14/2015	YT113-YT115
			4		Jun 21/2016	YT116-YT120 YT132-YT133
ACMS PARAMETERS - ANALOG INTERFACE	31-35-05		1		Jun 21/2016	ALL
ACMS DIGITAL INTERFACE GROUP 2	31-35-07		1	1	Jun 21/2016	YT104 YT106-YT133
				2	Jun 21/2016	YT104 YT106-YT133
			2	1	Aug 18/2014	YT105
				2	Aug 18/2014	YT105
ACMS DISCRETE INTERFACE GROUP 2	31-35-08		1		Jun 21/2016	YT104 YT106-YT133
			2		Aug 18/2014	YT105
ACMS NFS INTERFACE	31-35-09		1		Nov 18/2013	YT104
			2		Jun 21/2016	YT105 YT126-YT133
			3		Mar 14/2016	YT106-YT120
<u>AURAL WARNING SYSTEM</u>						
AURAL WARNING SYSTEM	31-51-11		1		Jun 21/2016	YT101-YT105 YT126-YT133
			2		Mar 14/2016	YT106-YT120
<u>MASTER CAUTION</u>						
MASTER CAUTION SYSTEM- POWER & CONTROL	31-52-11		1	1	Jun 21/2016	ALL
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MASTER CAUTION SYSTEM - HYDRAULIC CONTROL	31-52-21		1		Jun 21/2016	ALL

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I	MASTER CAUTION SYSTEM - ELECTRICAL CONTROL, POWER BUS	31-52-32		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - APU CONTROL	31-52-35		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - FUEL CONTROL	31-52-41		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - OVERHEAT DETECTION	31-52-45		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - AIR CONDITIONG CONTROL, PACK & TEMP	31-52-51		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - AIR CONDITIONG CONTROL, BLEED AIR	31-52-52		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - ANTI-ICE CONTROL, PITOT HEAT	31-52-55		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - ANTI-ICE CONTROL, WINDOW/COWL HEAT	31-52-56		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - ENGINE CONTROL	31-52-61		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - DOOR WARNING	31-52-65		1		Jun 21/2016	ALL
I	MASTER CAUTION SYSTEM - IRS CONTROL	31-52-71		1		Jun 21/2016	YT101-YT119 YT126-YT129
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I	MASTER CAUTION SYSTEM - OVERHEAD CONTROL	31-52-75		1		Jun 21/2016	ALL
AURAL WARNING - TAKEOFF WARNING							
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I CDS - VIDEO COAX SPLITTERS 1 AND 3 DU STATUS	31-62-12		1	1	Jun 21/2016	ALL
I				2	Jun 21/2016	ALL
I CDS - CONTROL PANEL INTERFACES - CAPTAINS	31-62-13		1		Jun 21/2016	ALL
I CDS - DEU 1 ENGINE HYDRAULIC, APU AND FUEL INTERFACES	31-62-14		1	1	Jun 21/2016	ALL
I				2	Jun 21/2016	ALL
CDS - DEU 1 AVIONICS INTERFACES	31-62-15		1	1	Aug 15/2013	YT101-YT103
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				3	Aug 15/2013	YT101-YT103
				4	Nov 18/2013	YT101-YT103
			2	1	Apr 17/2014	YT104-YT105
				2	Apr 17/2014	YT104-YT105
				3	Apr 17/2014	YT104-YT105
				4	Apr 17/2014	YT104-YT105
			3	1	Mar 14/2016	YT106-YT120
				2	Mar 14/2016	YT106-YT120
				3	Mar 14/2016	YT106-YT120
				4	Mar 14/2016	YT106-YT120
I			4	1	Jun 21/2016	YT126-YT133
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I				3	Jun 21/2016	YT126-YT133
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I CDS - POWER DISTRIBUTION AND INSTRUMENT LIGHTING FIRST OFFICER	31-62-21		1	1	Jun 21/2016	ALL
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I CDS - DEU 2 ENGINE HYDRAULIC, APU AND FUEL INTERFACES	31-62-24		1	1	Jun 21/2016	ALL
I				2	Jun 21/2016	ALL
CDS - DEU 2 AVIONICS INTERFACES	31-62-25		1	1	Nov 18/2013	YT101-YT102
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				3	Nov 18/2013	YT101-YT102
				4	Nov 18/2013	YT101-YT102
			2	1	Nov 18/2013	YT103
				2	Nov 18/2013	YT103
				3	Nov 18/2013	YT103
				4	Nov 18/2013	YT103
			3	1	Apr 17/2014	YT104-YT105
				2	Apr 17/2014	YT104-YT105
				3	Apr 17/2014	YT104-YT105
				4	Apr 17/2014	YT104-YT105
			4	1	Mar 14/2016	YT106-YT120
				2	Mar 14/2016	YT106-YT120
				3	Mar 14/2016	YT106-YT120
				4	Mar 14/2016	YT106-YT120
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I				4	Jun 21/2016	YT126-YT133
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31-35-05	ACMS PARAMETERS - ANALOG INTERFACE
31-53-11	AURAL WARNING - TAKEOFF WARNING
31-51-11	AURAL WARNING SYSTEM
31-62-13	CDS - CONTROL PANEL INTERFACES - CAPTAINS
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31-62-15	CDS - DEU 1 AVIONICS INTERFACES
31-62-14	CDS - DEU 1 ENGINE HYDRAULIC, APU AND FUEL INTERFACES
31-62-25	CDS - DEU 2 AVIONICS INTERFACES
31-62-24	CDS - DEU 2 ENGINE HYDRAULIC, APU AND FUEL INTERFACES
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31-35-02	DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE
31-35-04	DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE
31-35-03	DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE 3
31-31-14	DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE
31-35-01	DIGITAL FLIGHT DATA RECORDER SYSTEM - DATA LOADER INTERFACE
31-31-13	DIGITAL FLIGHT DATA RECORDER SYSTEM - DIGITAL INTERFACE
31-31-11	DIGITAL FLIGHT DATA RECORDER SYSTEM - INTERFACE
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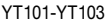
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31-52-51	MASTER CAUTION SYSTEM - AIR CONDITIONG CONTROL, PACK & TEMP
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31-52-56	MASTER CAUTION SYSTEM - ANTI-ICE CONTROL, WINDOW/COWL HEAT
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31-52-65	MASTER CAUTION SYSTEM - DOOR WARNING
31-52-31	MASTER CAUTION SYSTEM - ELECTRICAL CONTROL, GENERATOR
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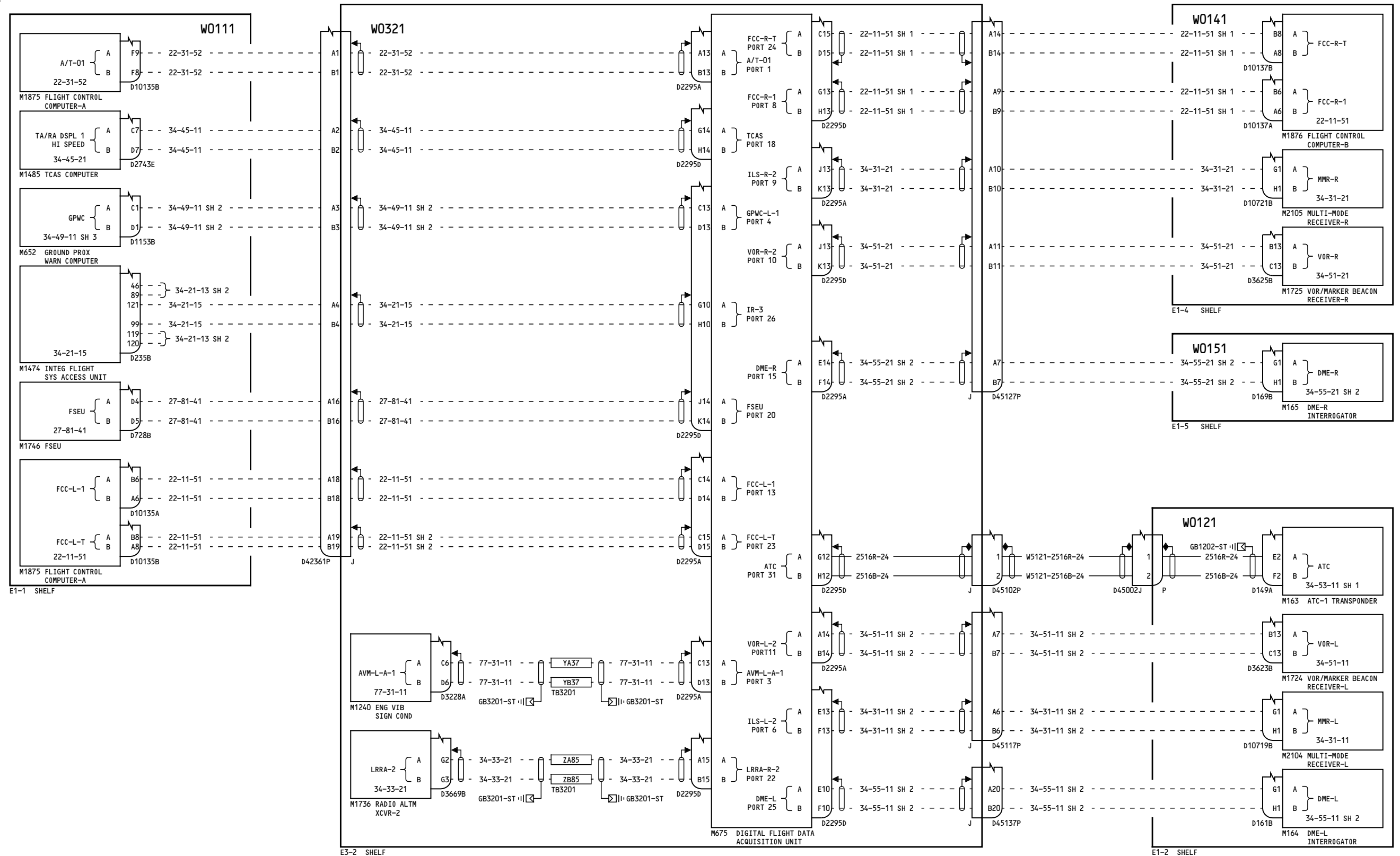
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YT101-YT103

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - DIGITAL
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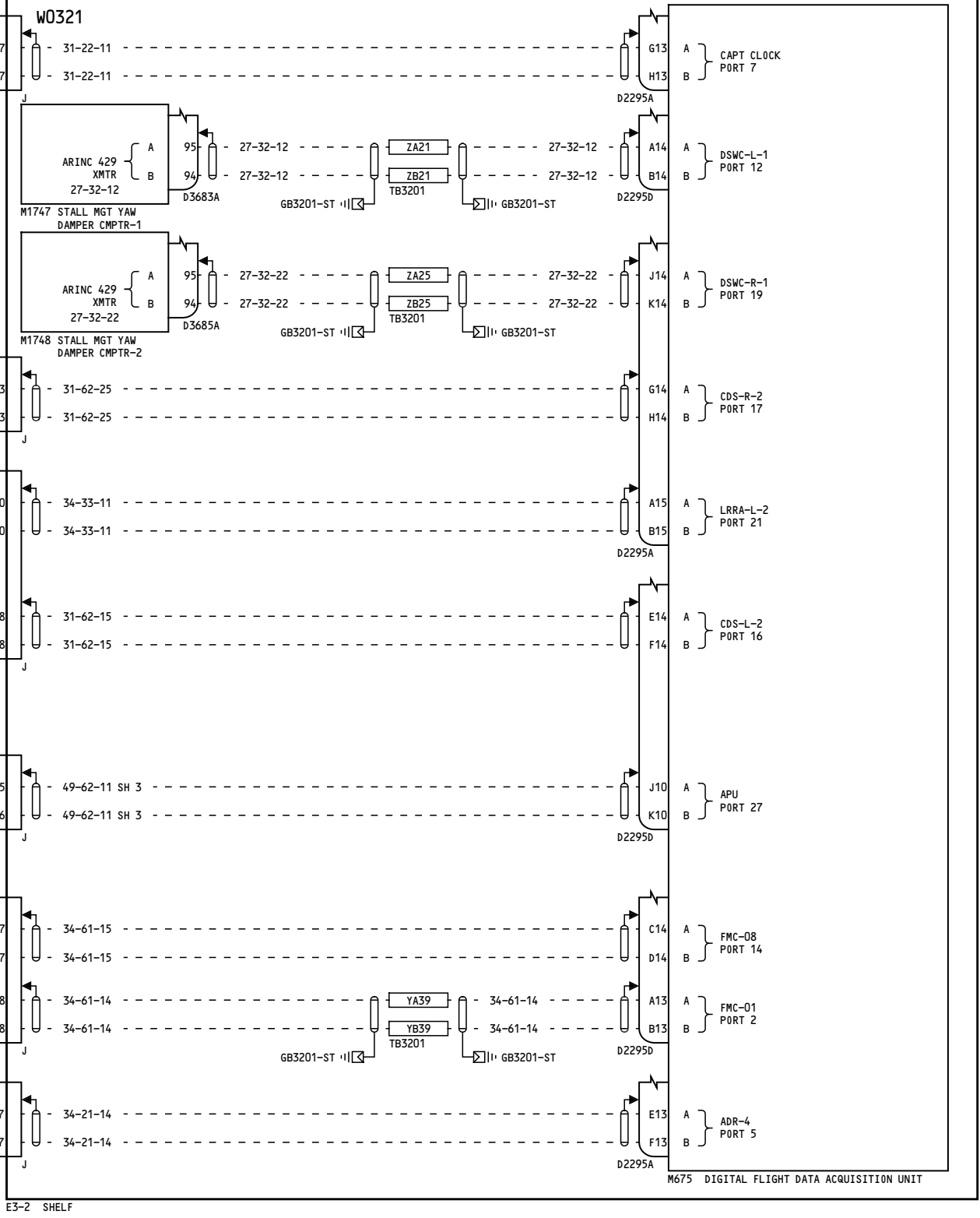
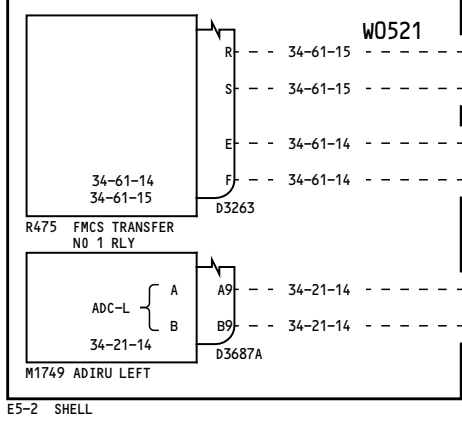
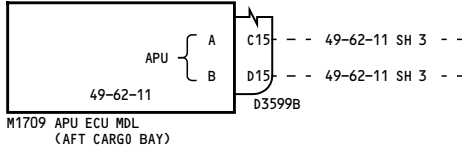
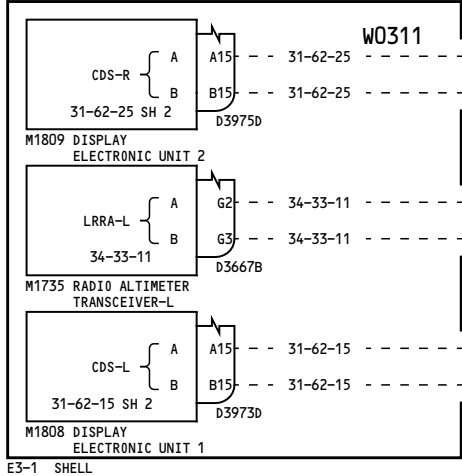
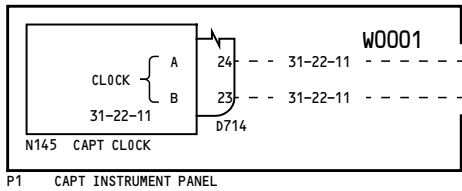
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YT101-YT103

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - DIGITAL
INTERFACE**

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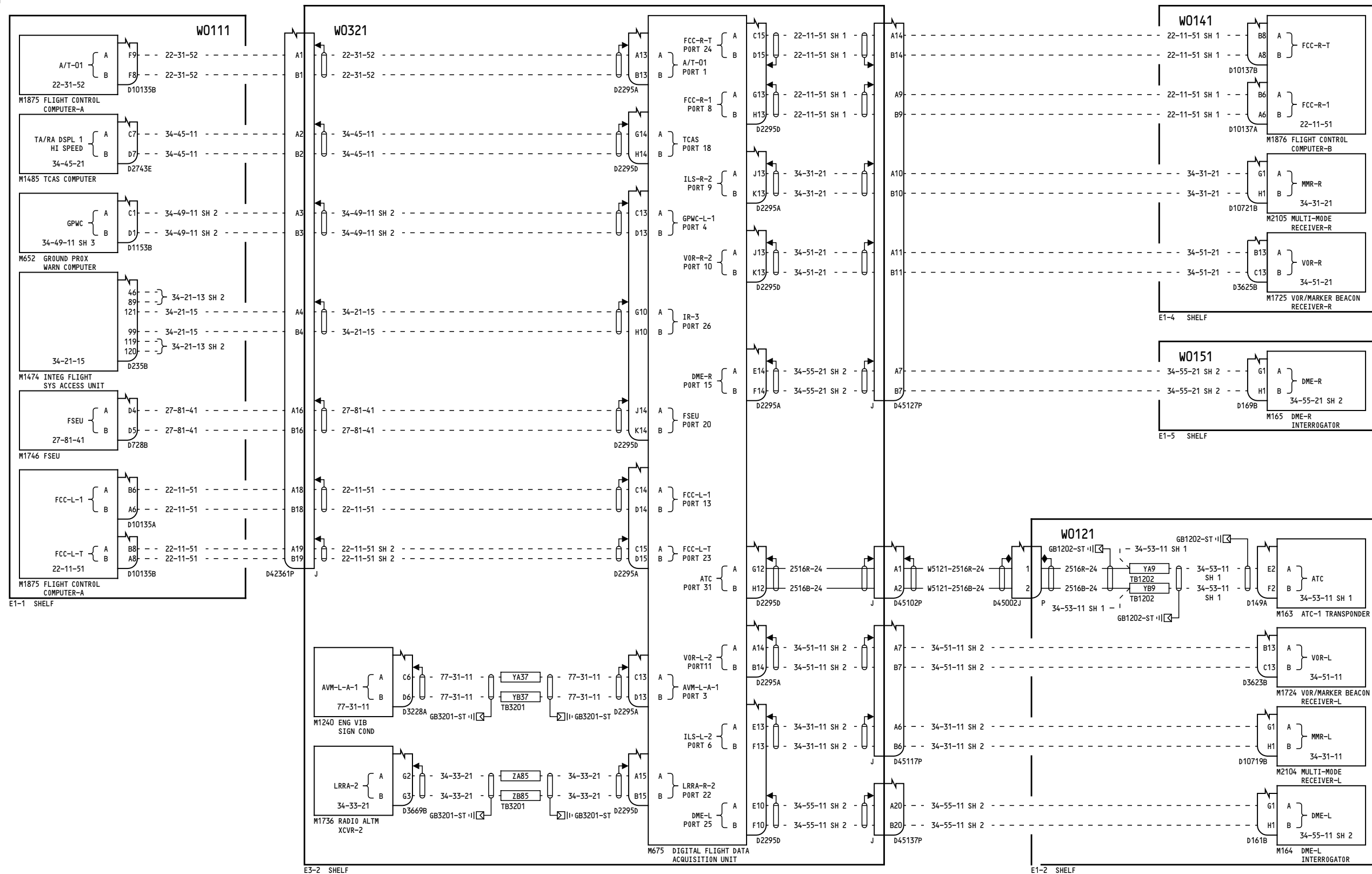
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YT104-YT133

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - DIGITAL
INTERFACE**

D280A351

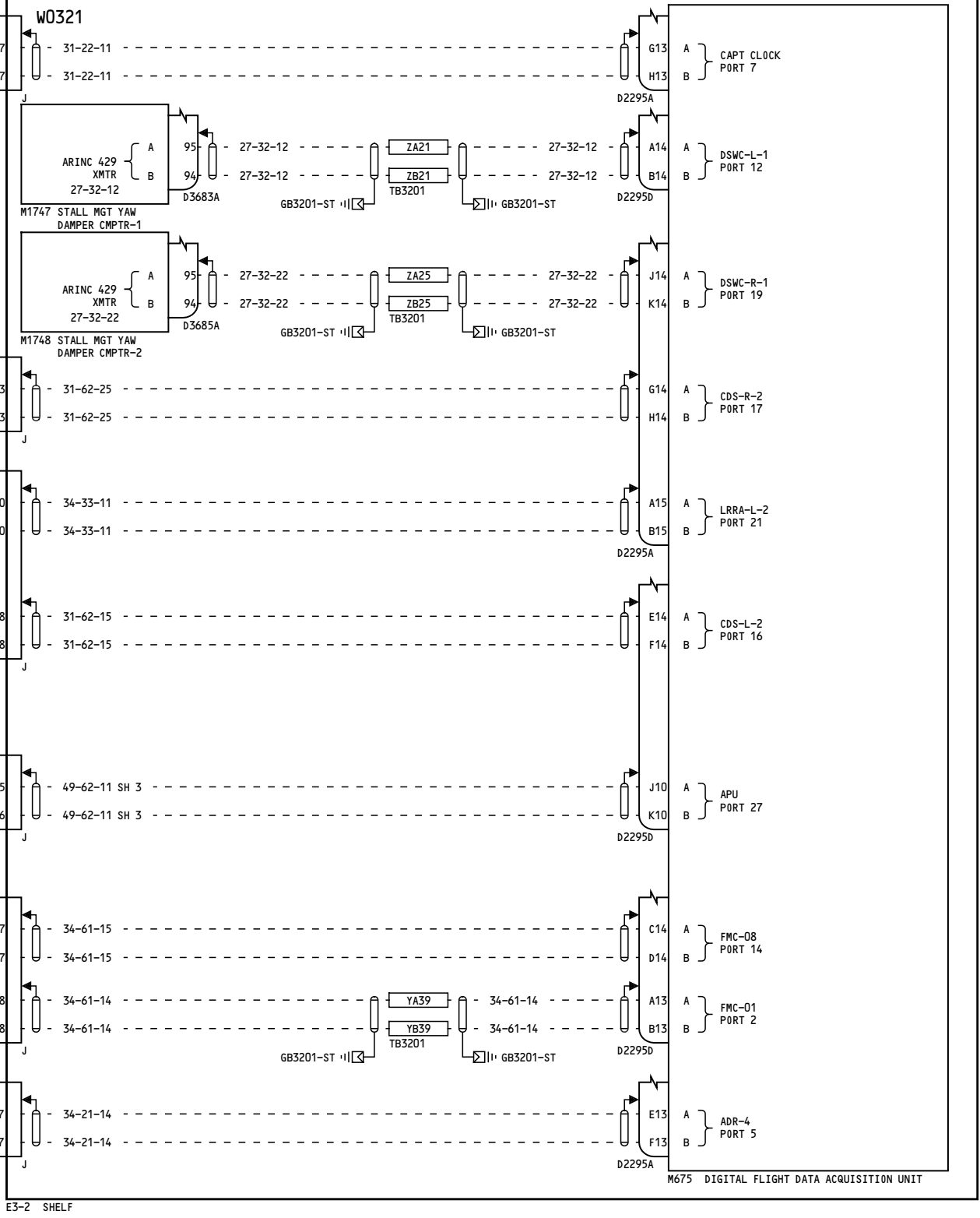
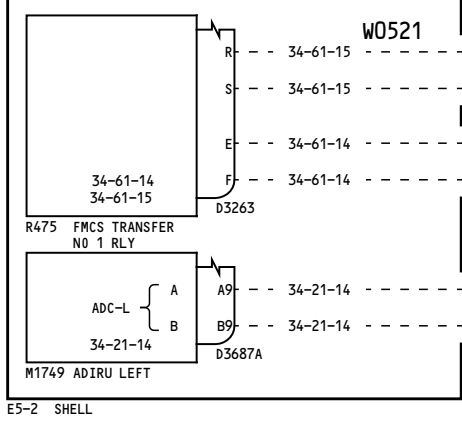
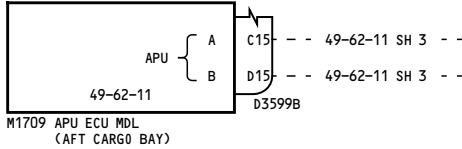
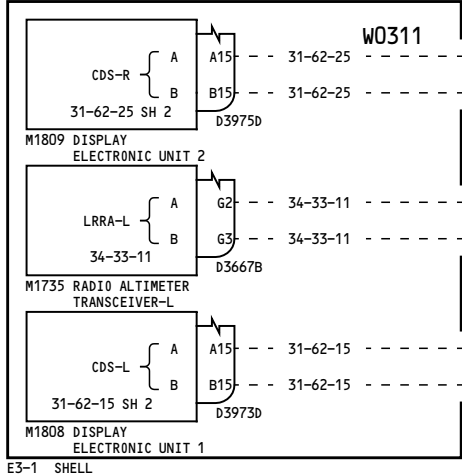
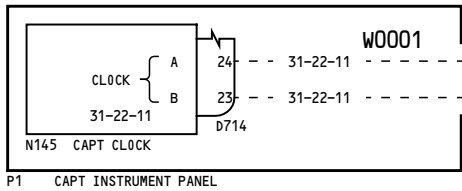
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**DIGITAL FLIGHT DATA
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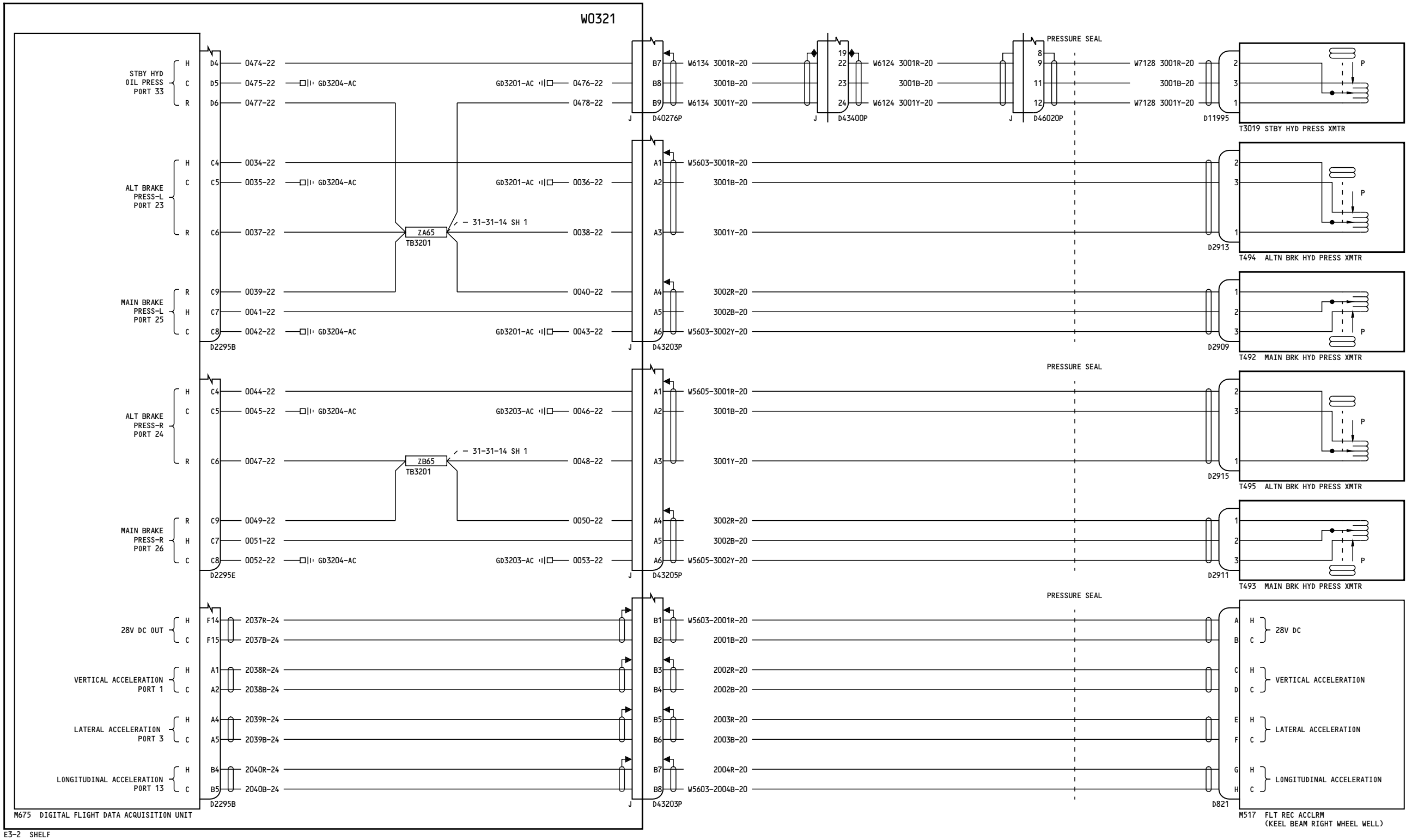


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**DIGITAL FLIGHT DATA
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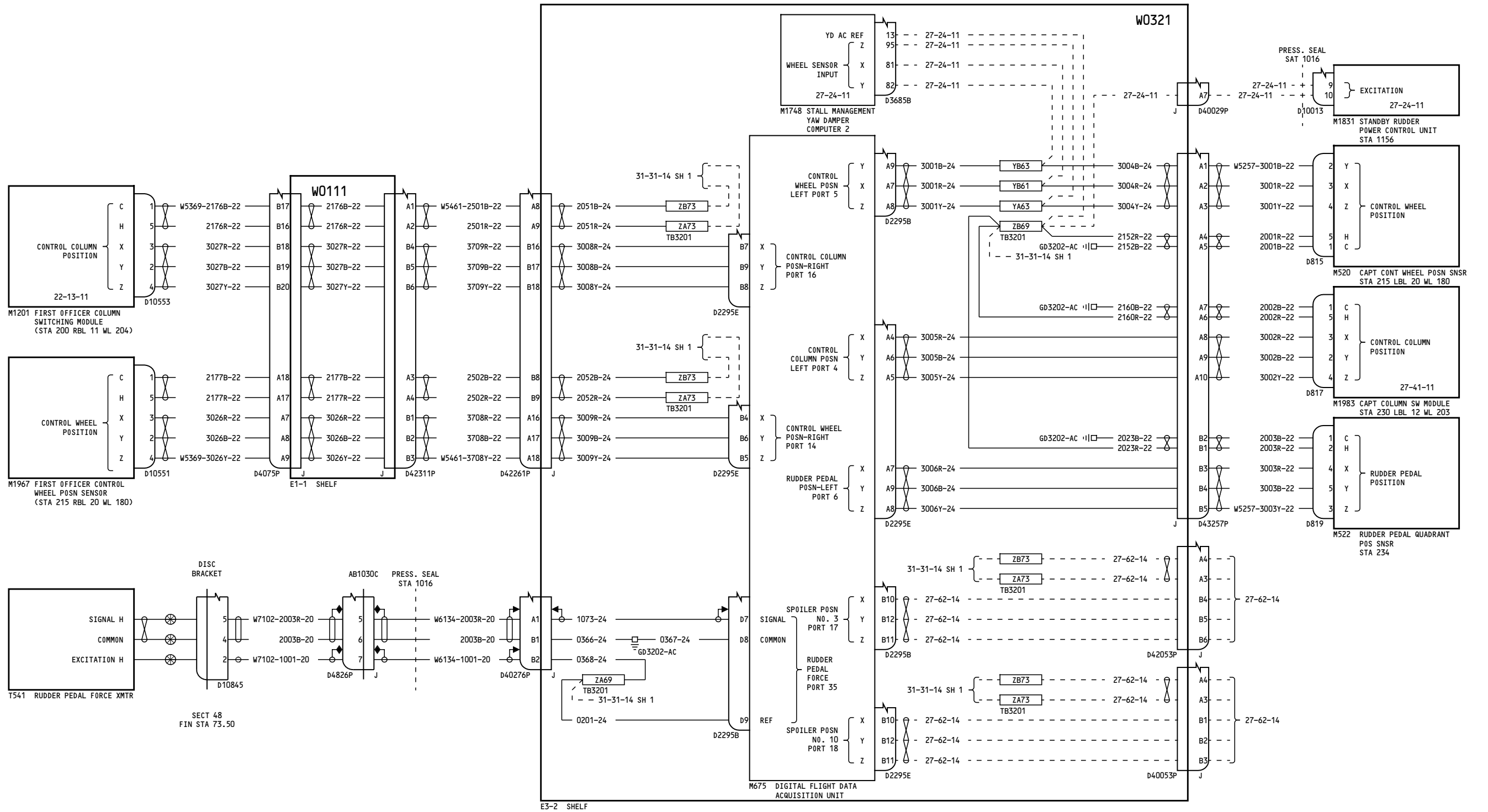
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INTERFACE

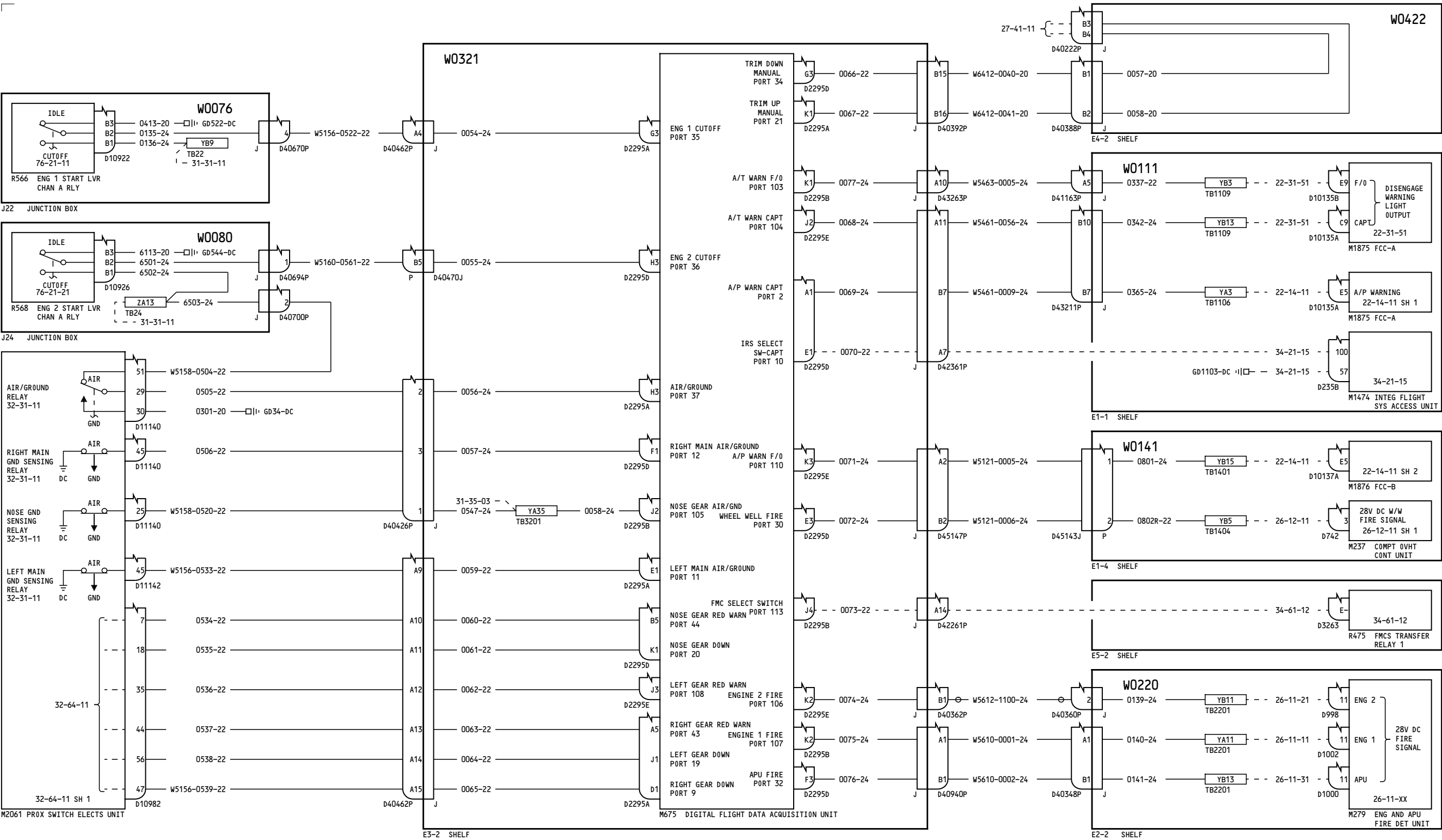
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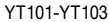
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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

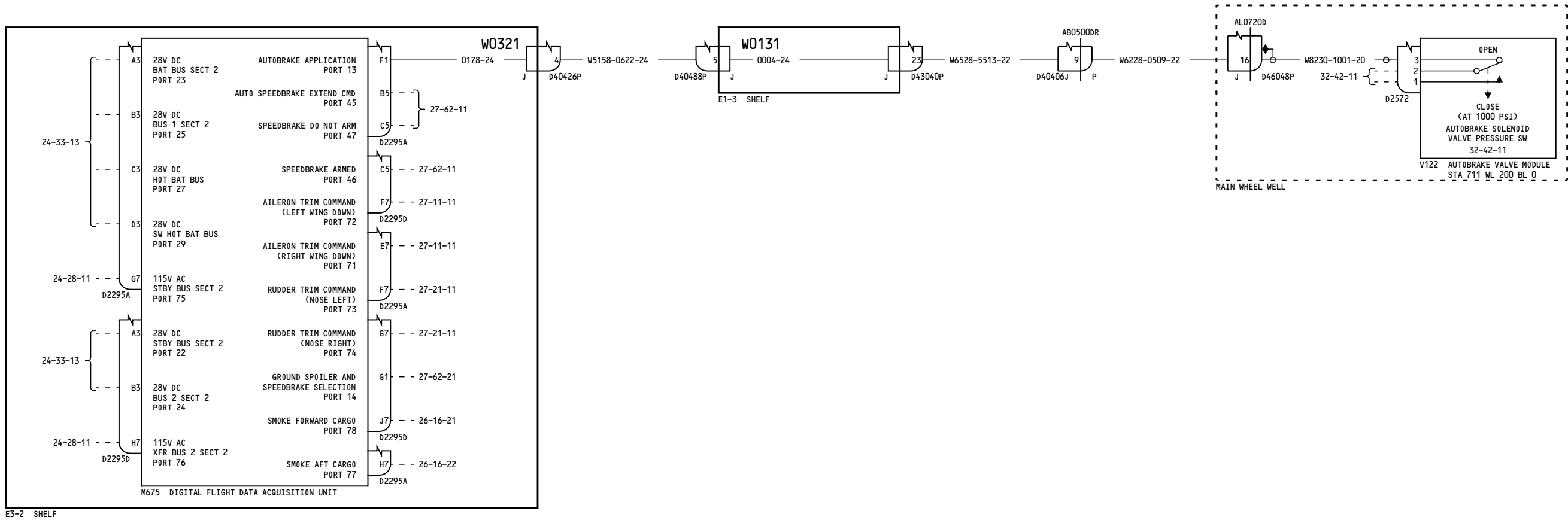
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**DIGITAL FLIGHT DATA
RECORDER SYSTEM DISCRETE
INTERFACE**

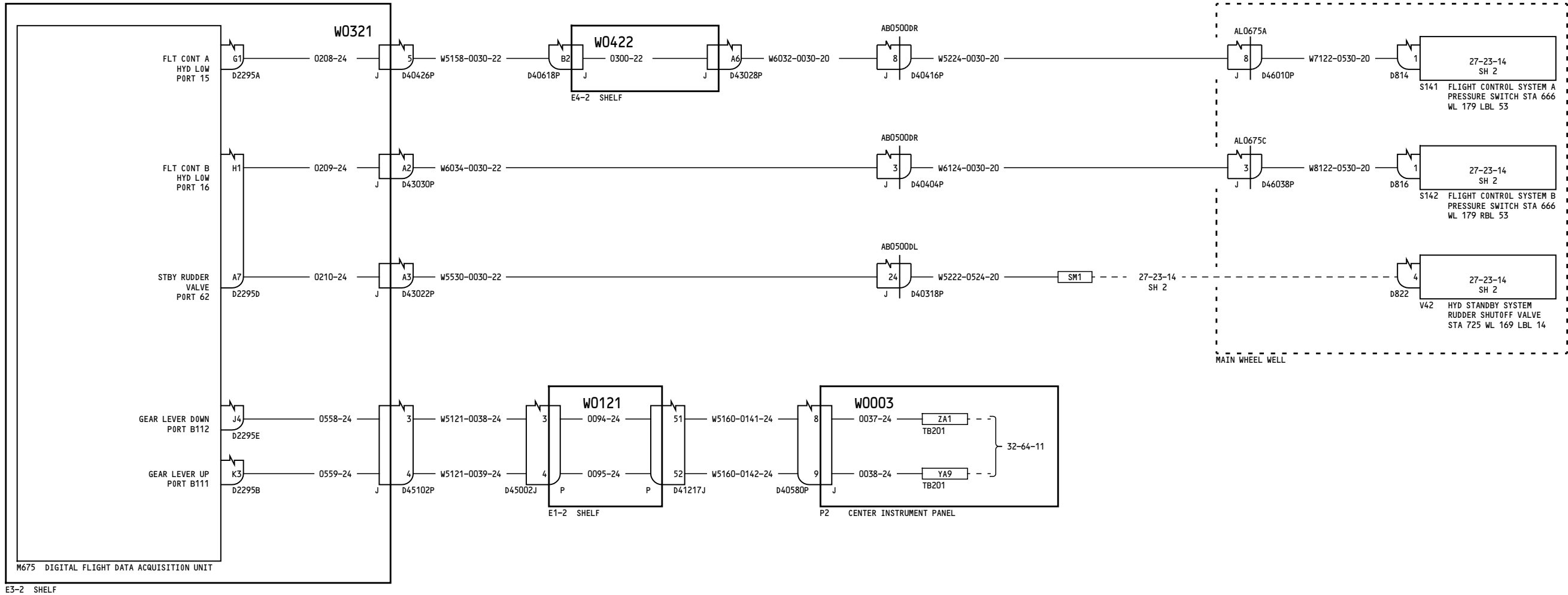
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NOTES: * EMC TYPE 1* WIRES MAY BE ROUTED NO MORE THAN 80 FEET WITH TYPE 2 WIRES.

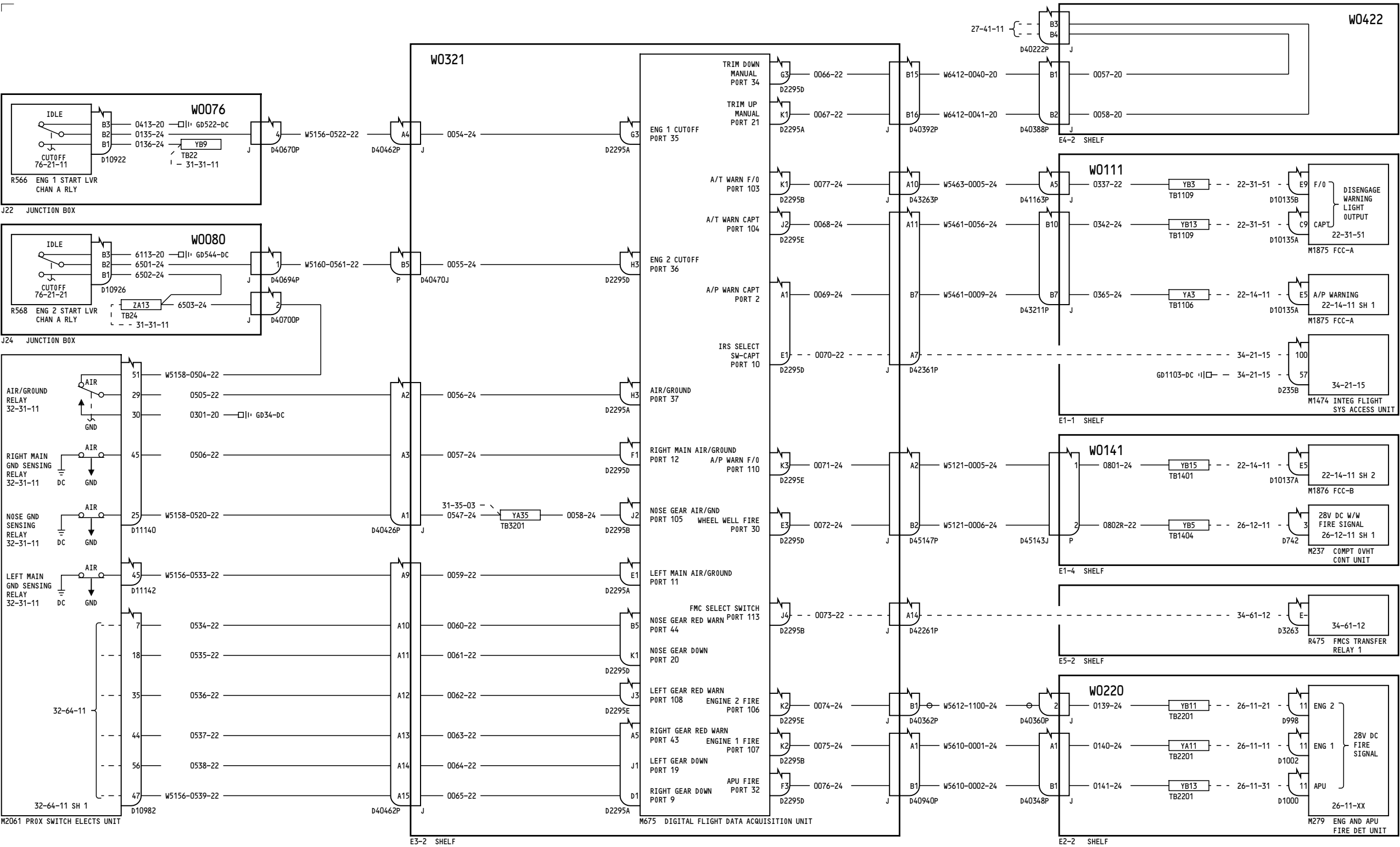
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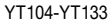
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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

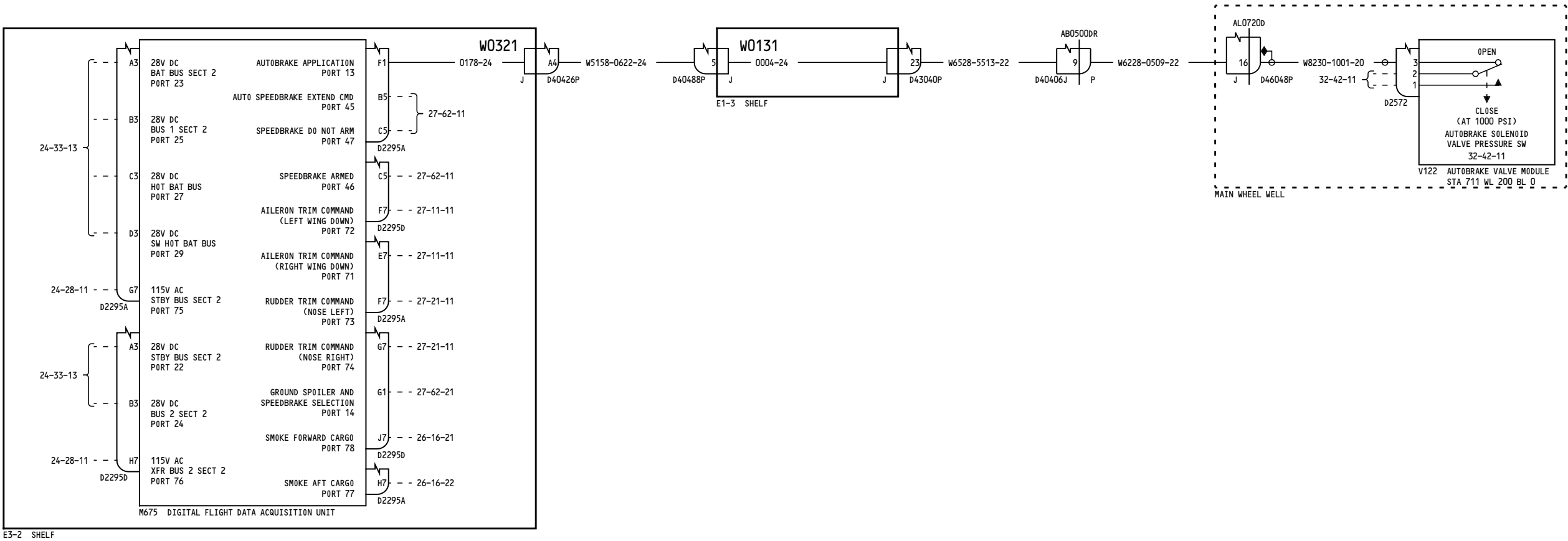
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**DIGITAL FLIGHT DATA
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INTERFACE**

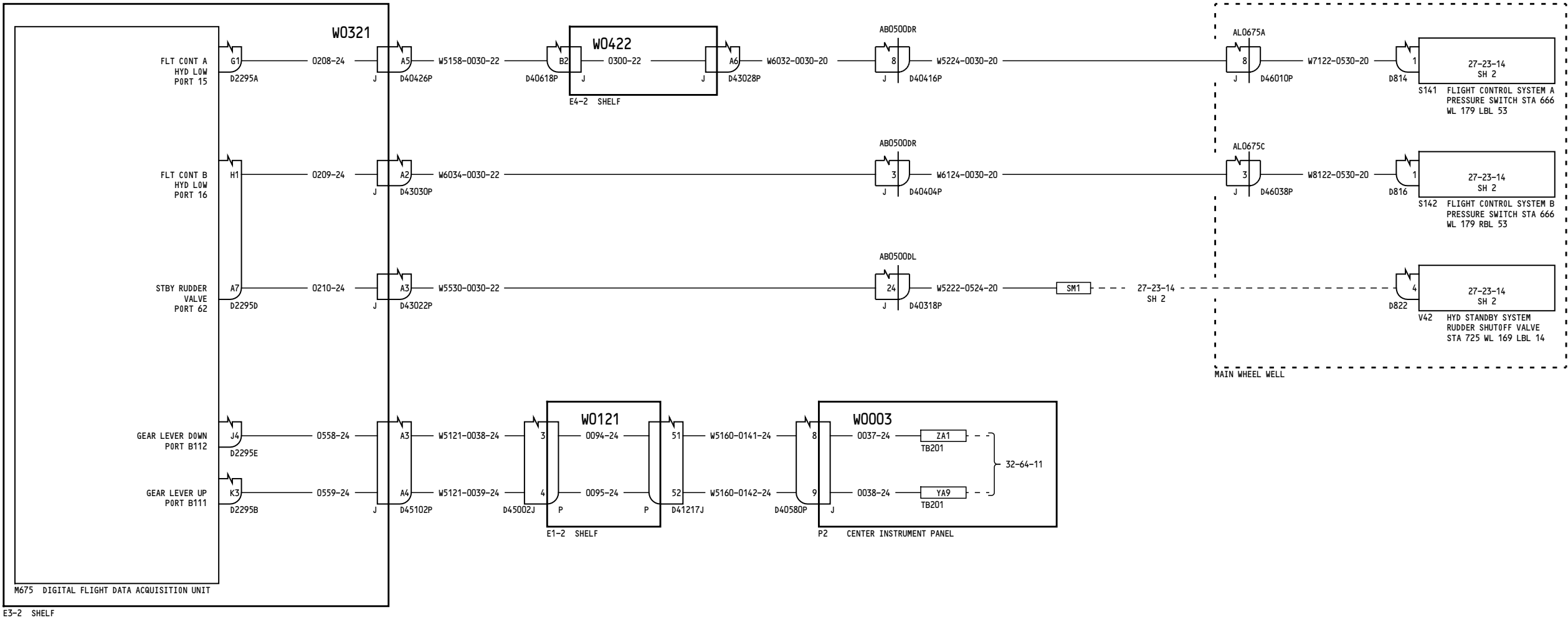
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NOTES: * EMC TYPE 1* WIRES MAY BE ROUTED NO MORE THAN 80 FEET WITH TYPE 2 WIRES.

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DIGITAL FLIGHT DATA
RECORDER SYSTEM DISCRETE
INTERFACE

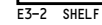
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1 - M1996 SELECTED TO "ON"
0 - M1996 SELECTED TO "OFF"

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1	AIRCRAFT NUMBER
2	FLEET IDENTIFICATION
3	AIRCRAFT TYPE

DIGITAL FLIGHT DATA RECORDER SYSTEM AIRPLANE CODING

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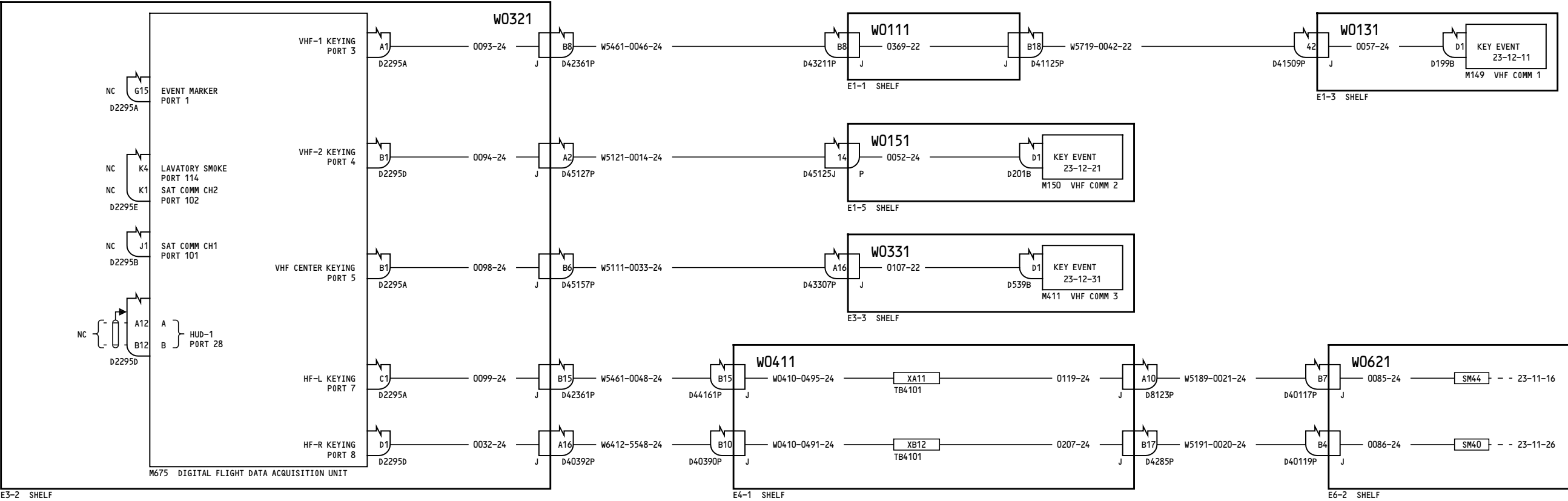
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2	FLEET IDENTIFICATION
3	AIRCRAFT TYPE

[illegible][illegible]

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YT141-YT170				
1 - M1996 SELECTED TO "ON"				
0 - M1996 SELECTED TO "OFF"				

A/C EFF	A/C TYPE 3						
	166	87	86	85	84	83	82
YT106-YT135							
YT141-YT170	1	0	0	0	0	0	1
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YT101-YT105

**DIGITAL FLIGHT DATA
RECORDER SYSTEM MANDATORY
OPTIONS**

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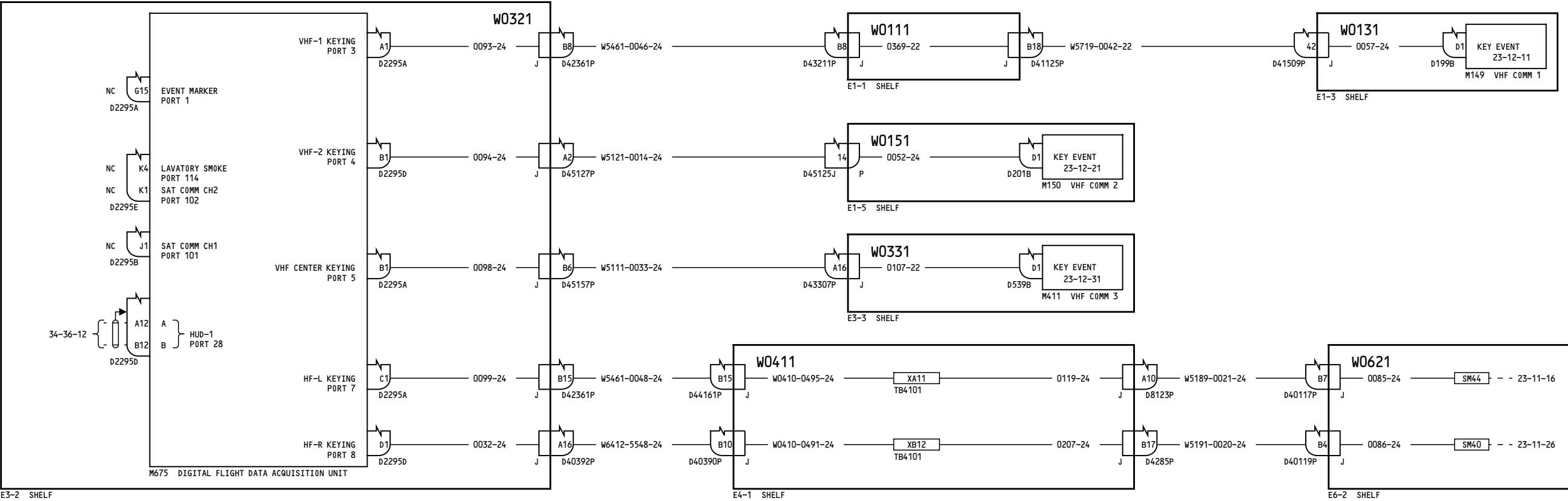
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YT106-YT133

**DIGITAL FLIGHT DATA
RECORDER SYSTEM MANDATORY
OPTIONS**

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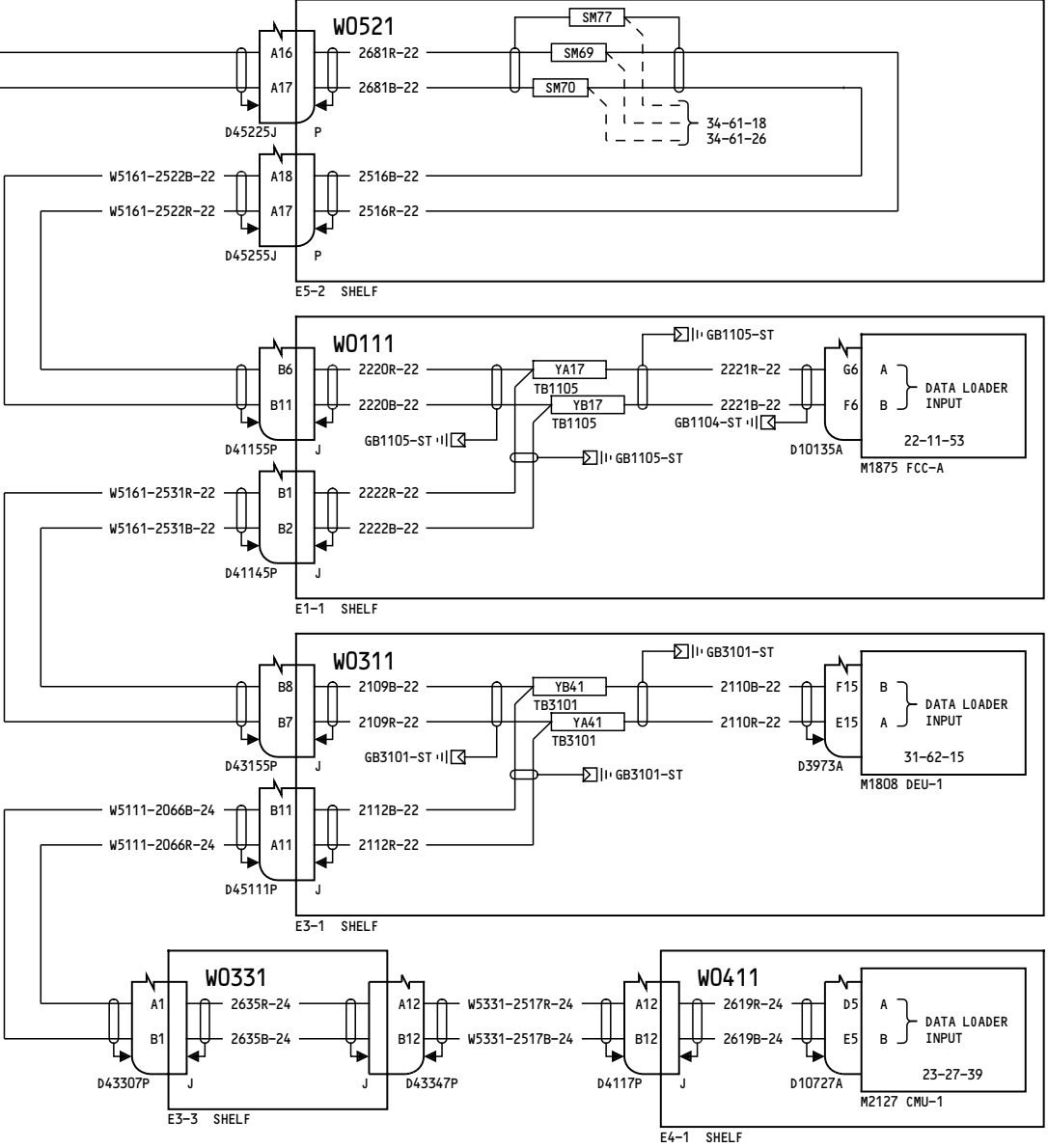
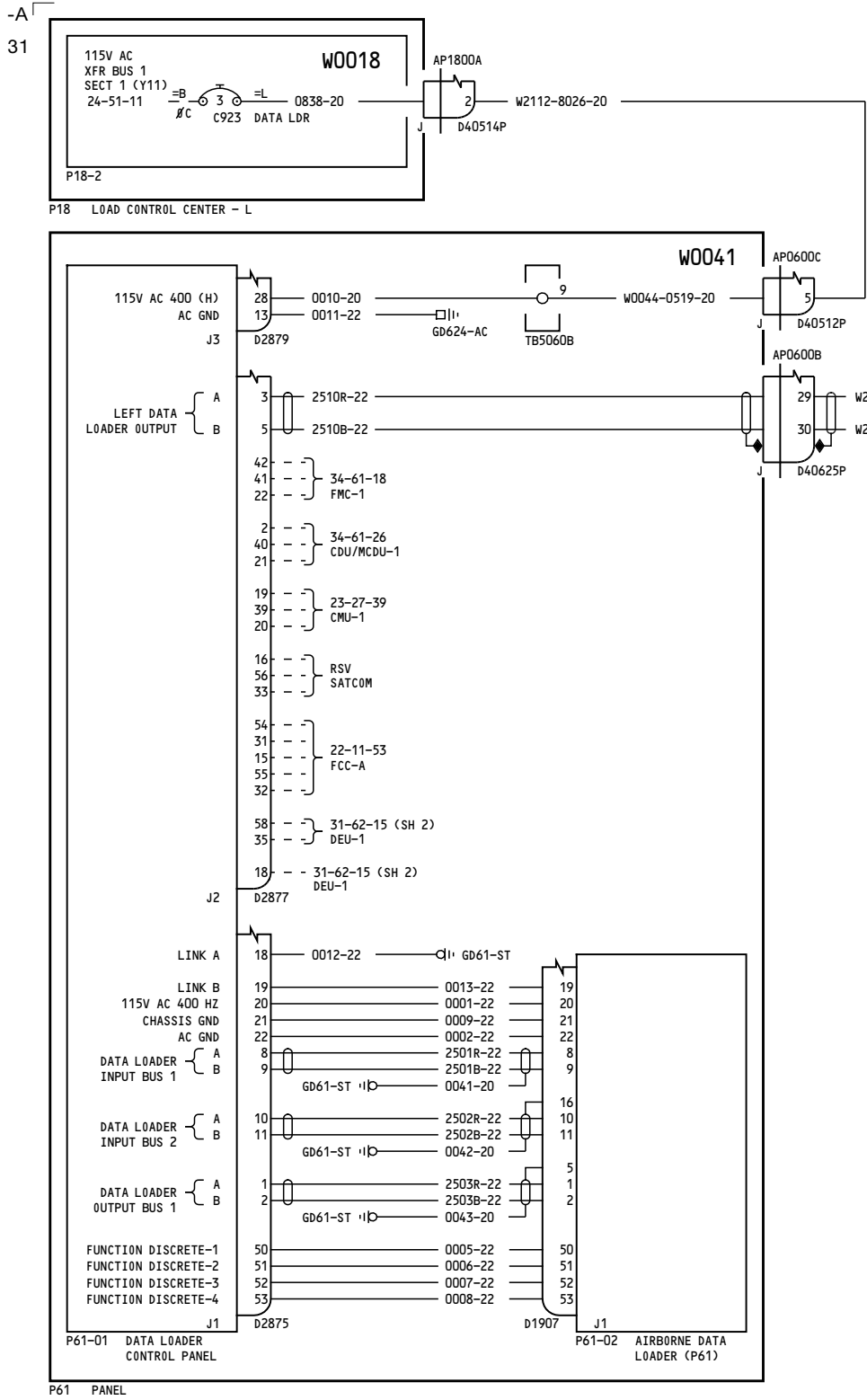
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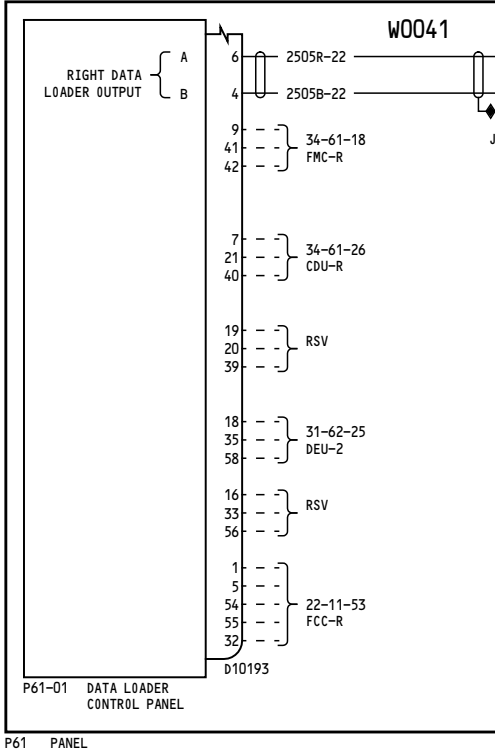
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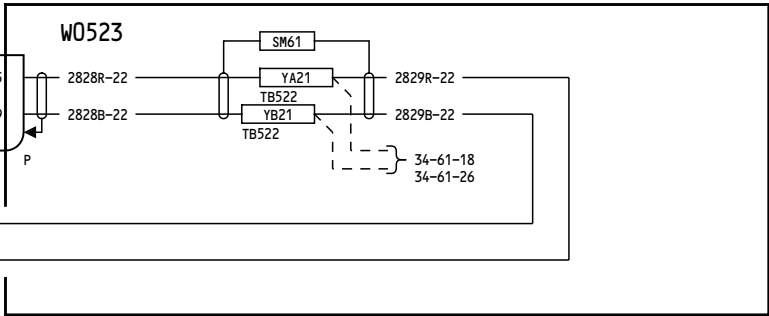
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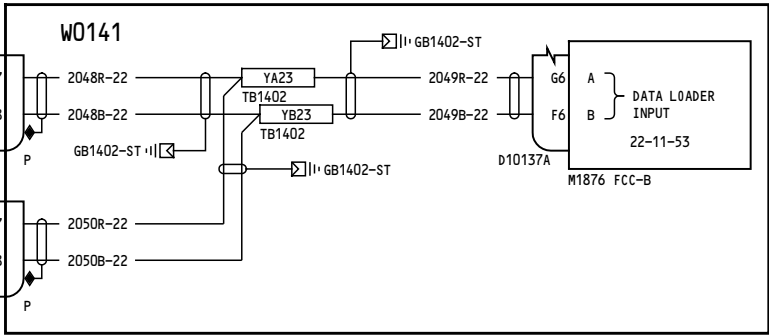
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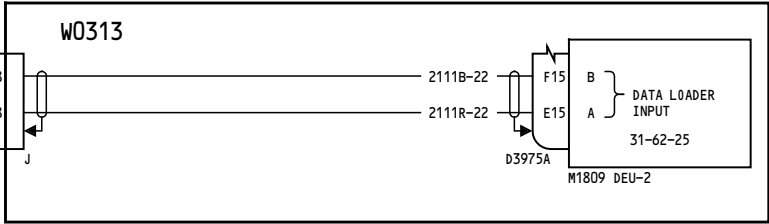
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E1-4 SHELF



E3-1

YT101

DATA LOADER INTERFACE

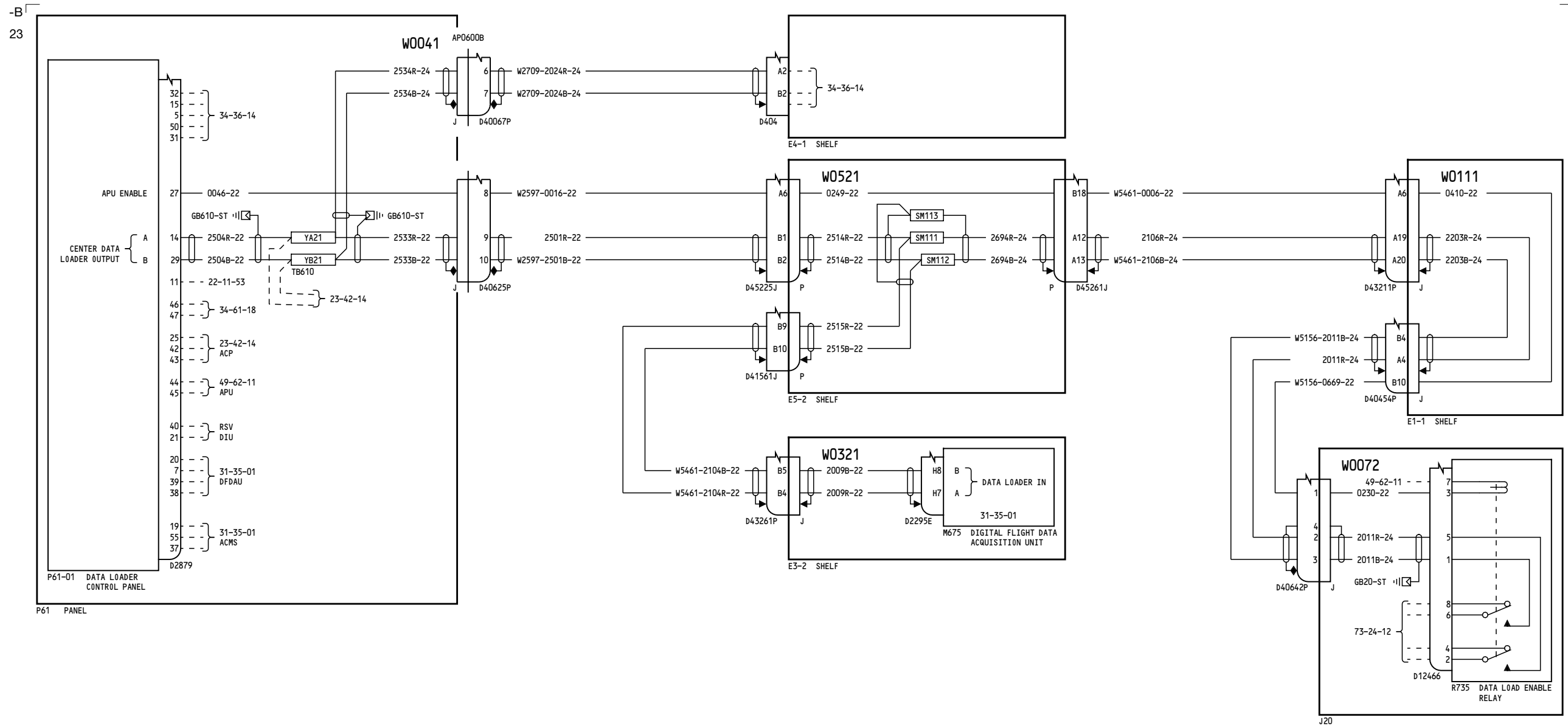
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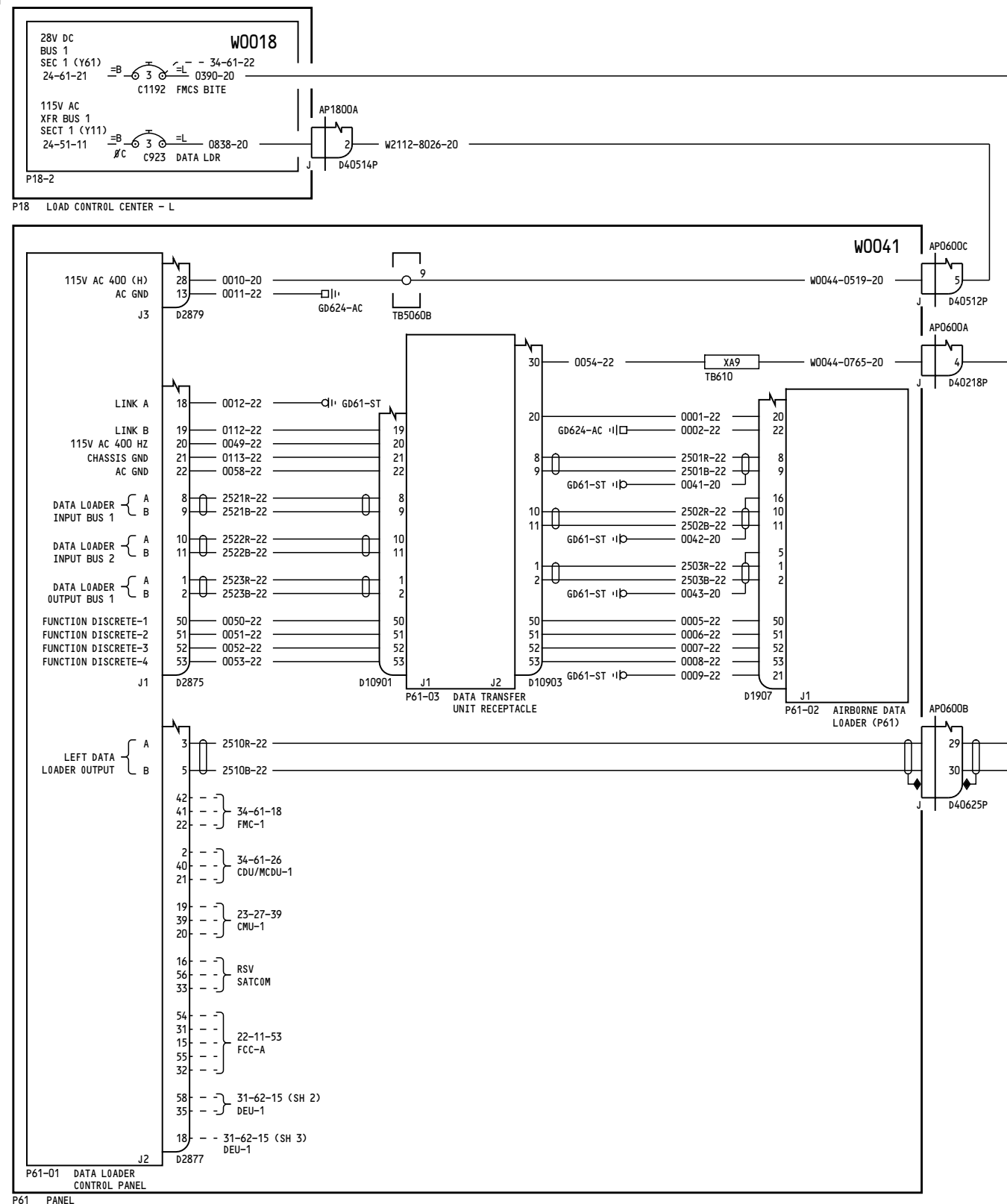
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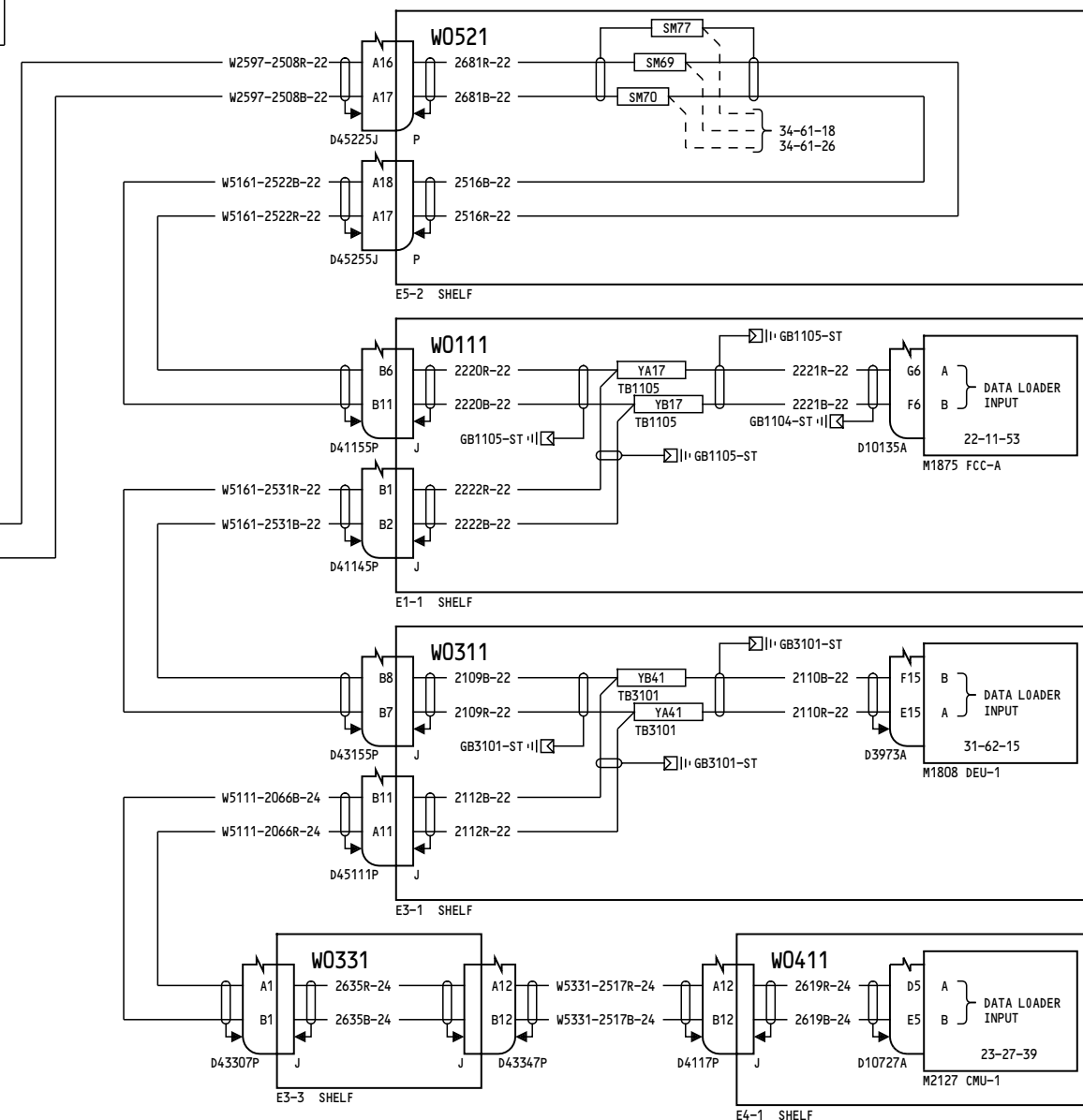
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DATA LOADER INTERFACE

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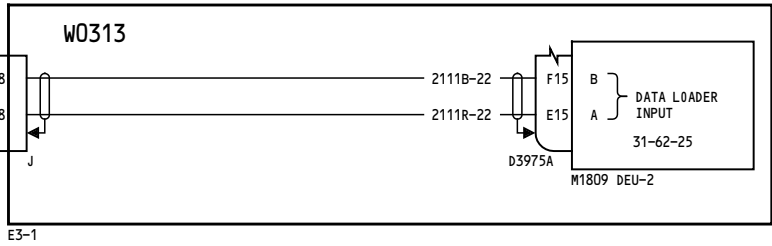
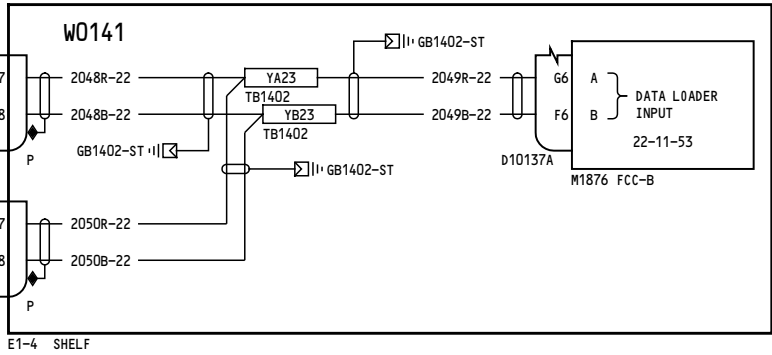
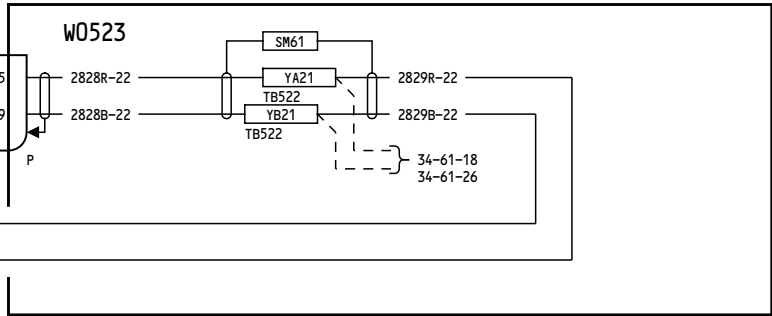
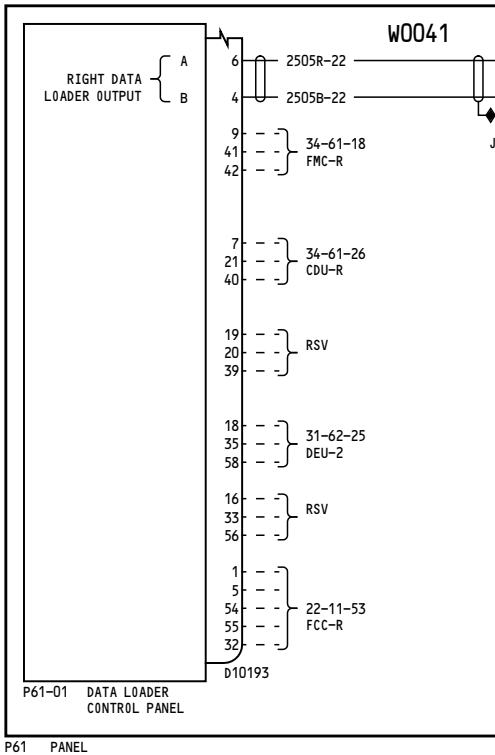
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YT102-YT103

DATA LOADER INTERFACE

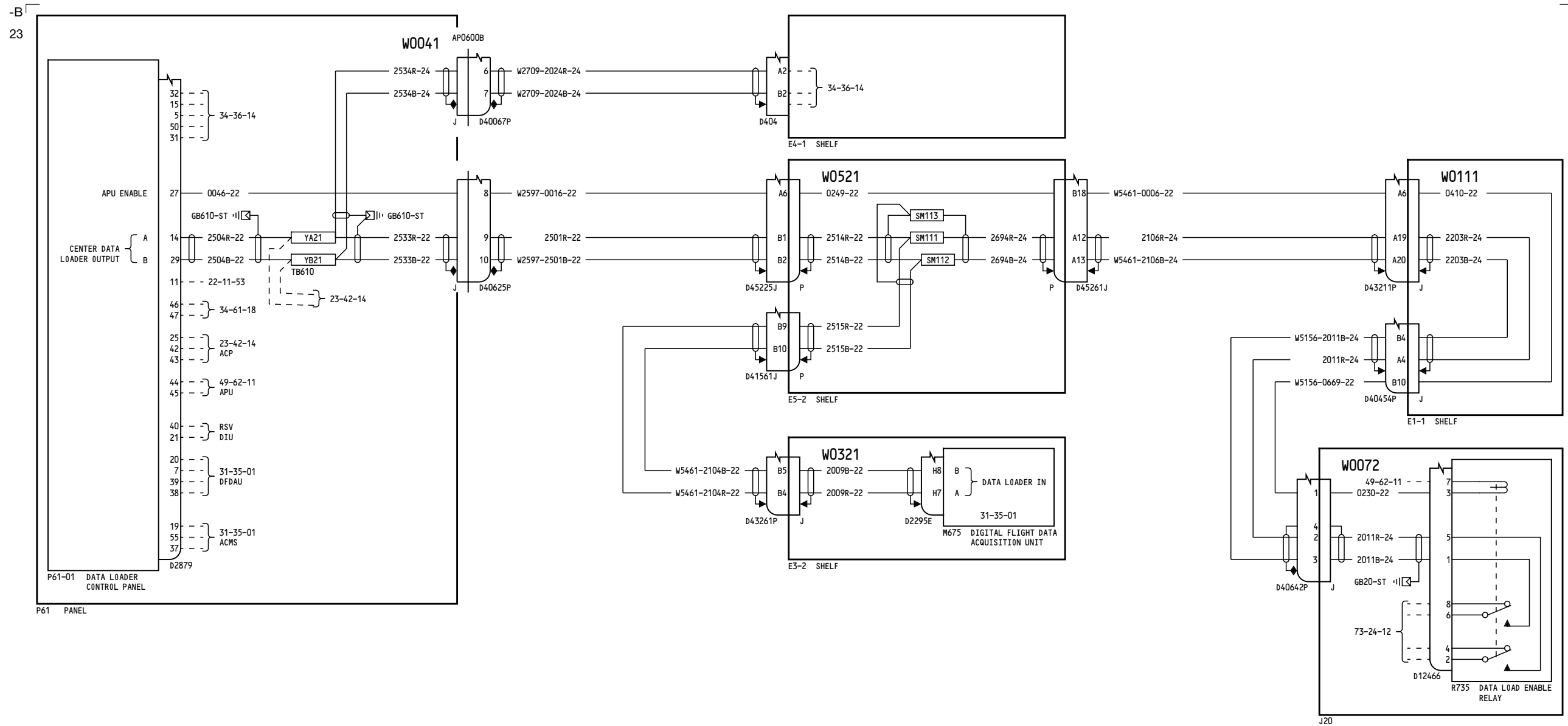
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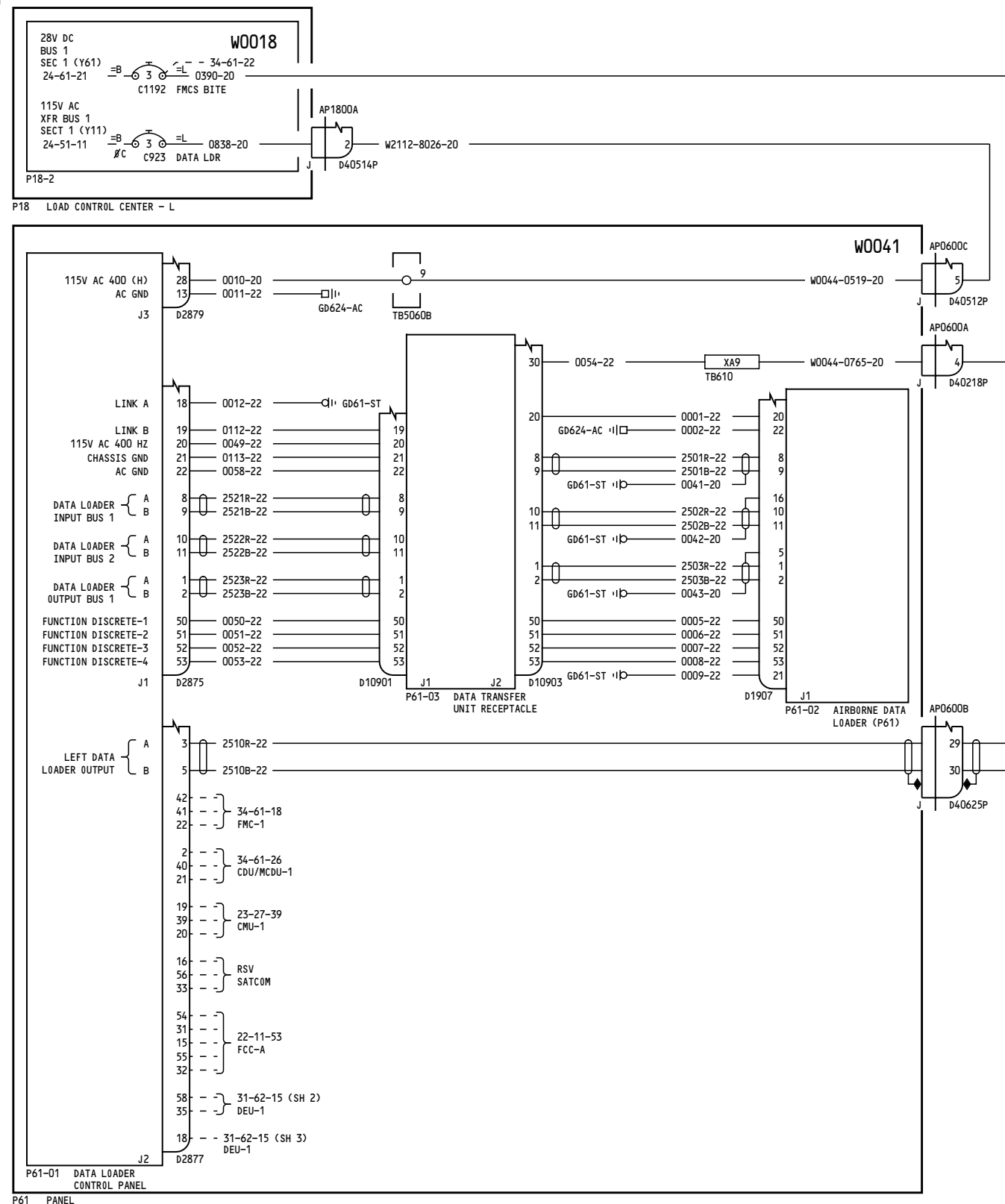
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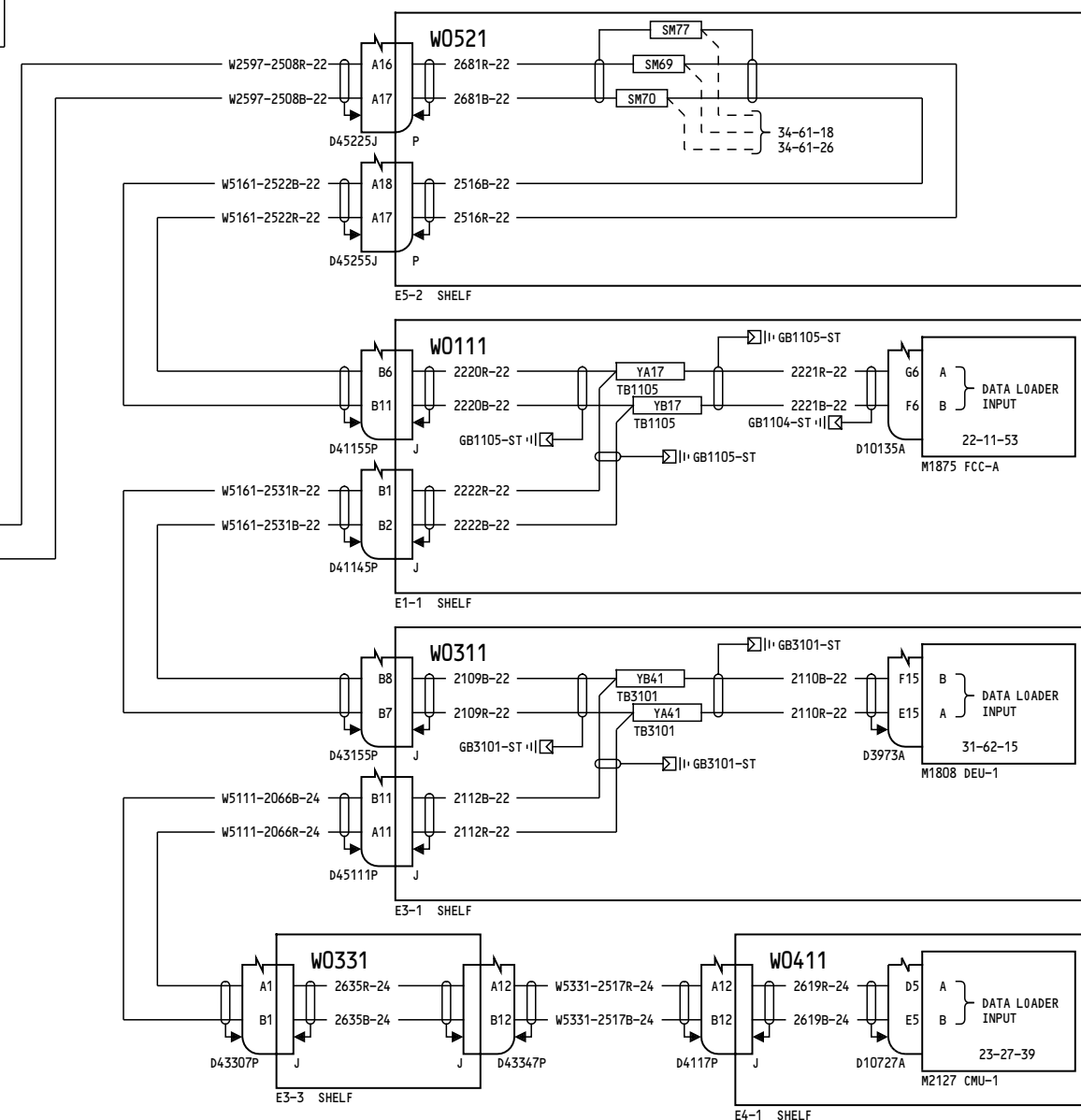
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DATA LOADER INTERFACE

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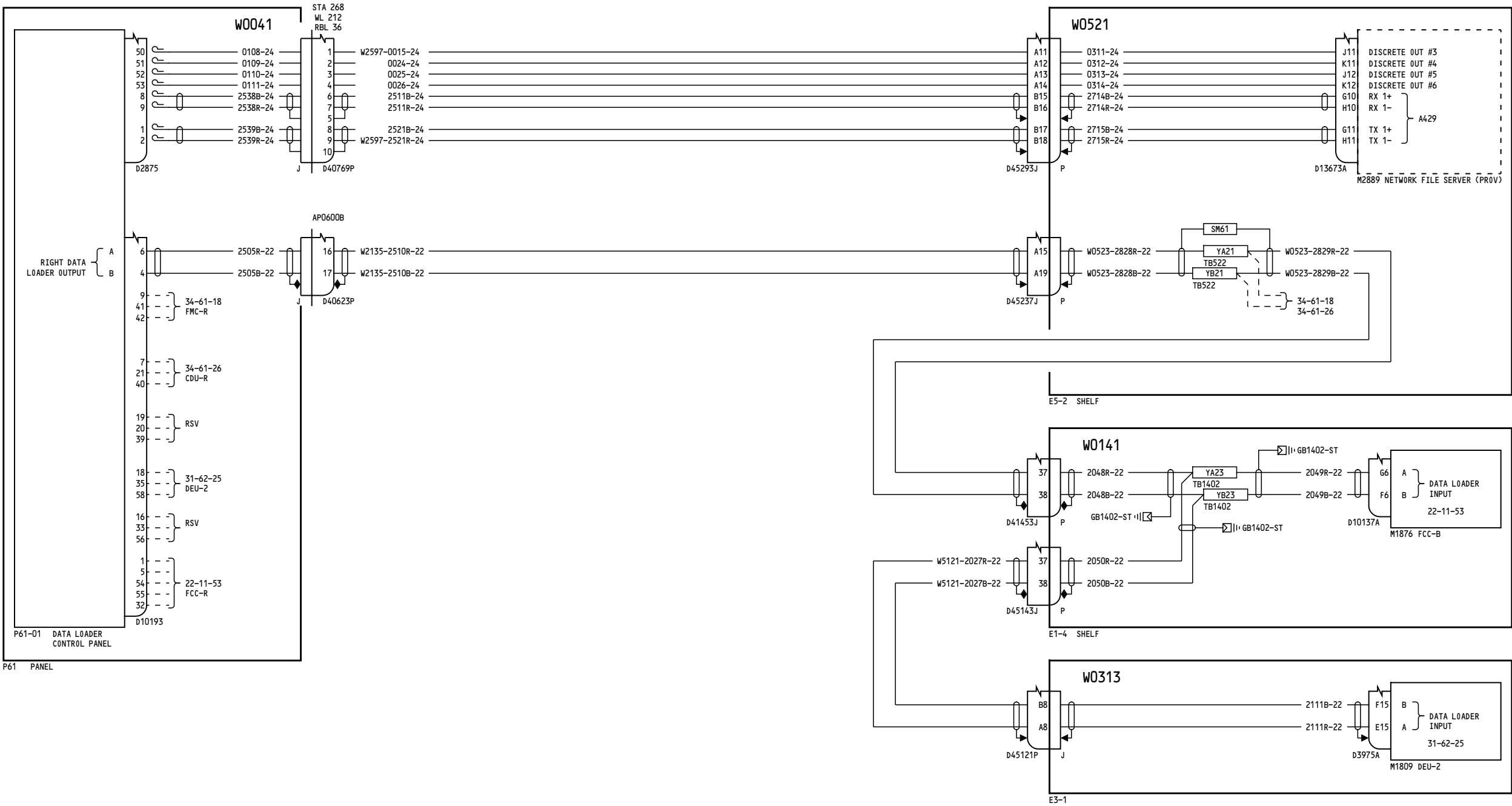
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DATA LOADER INTERFACE

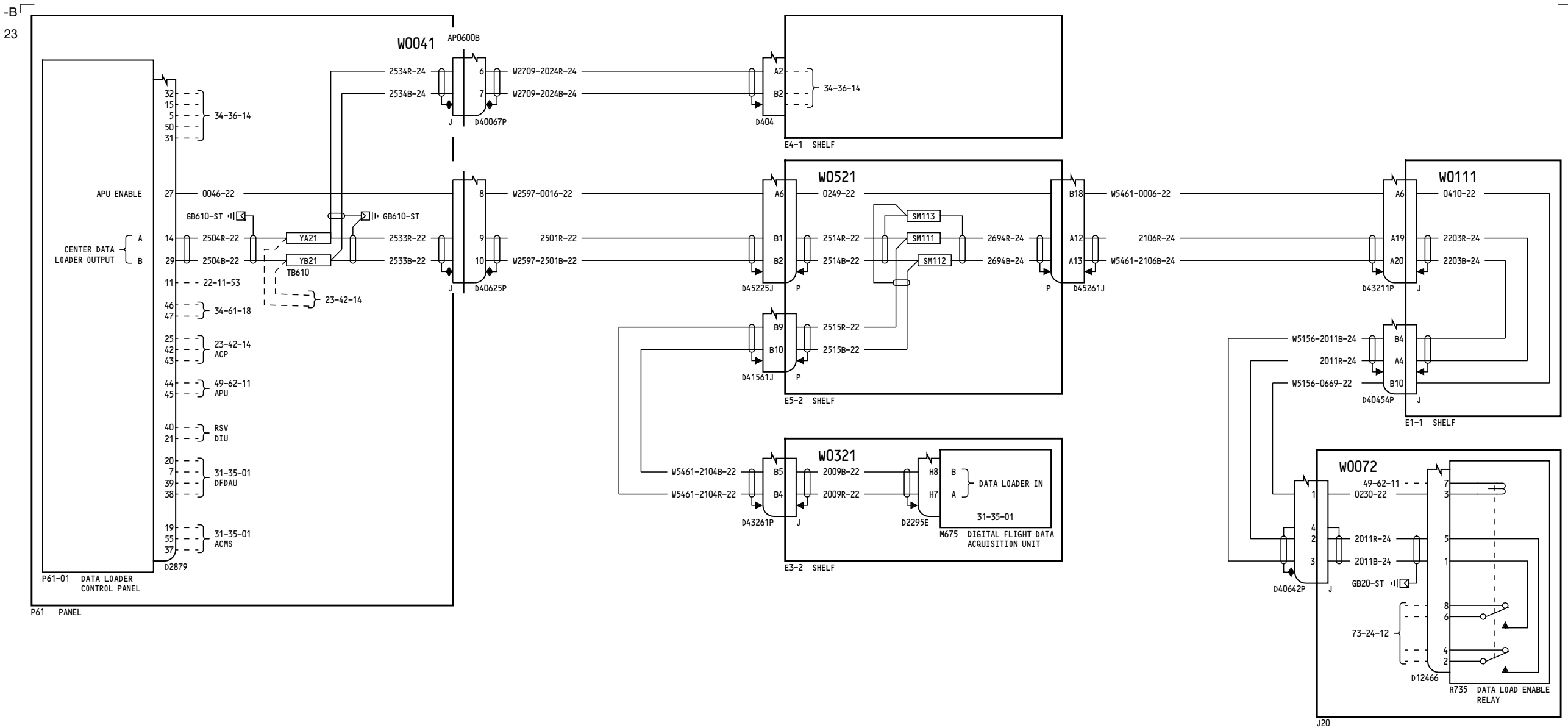
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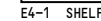
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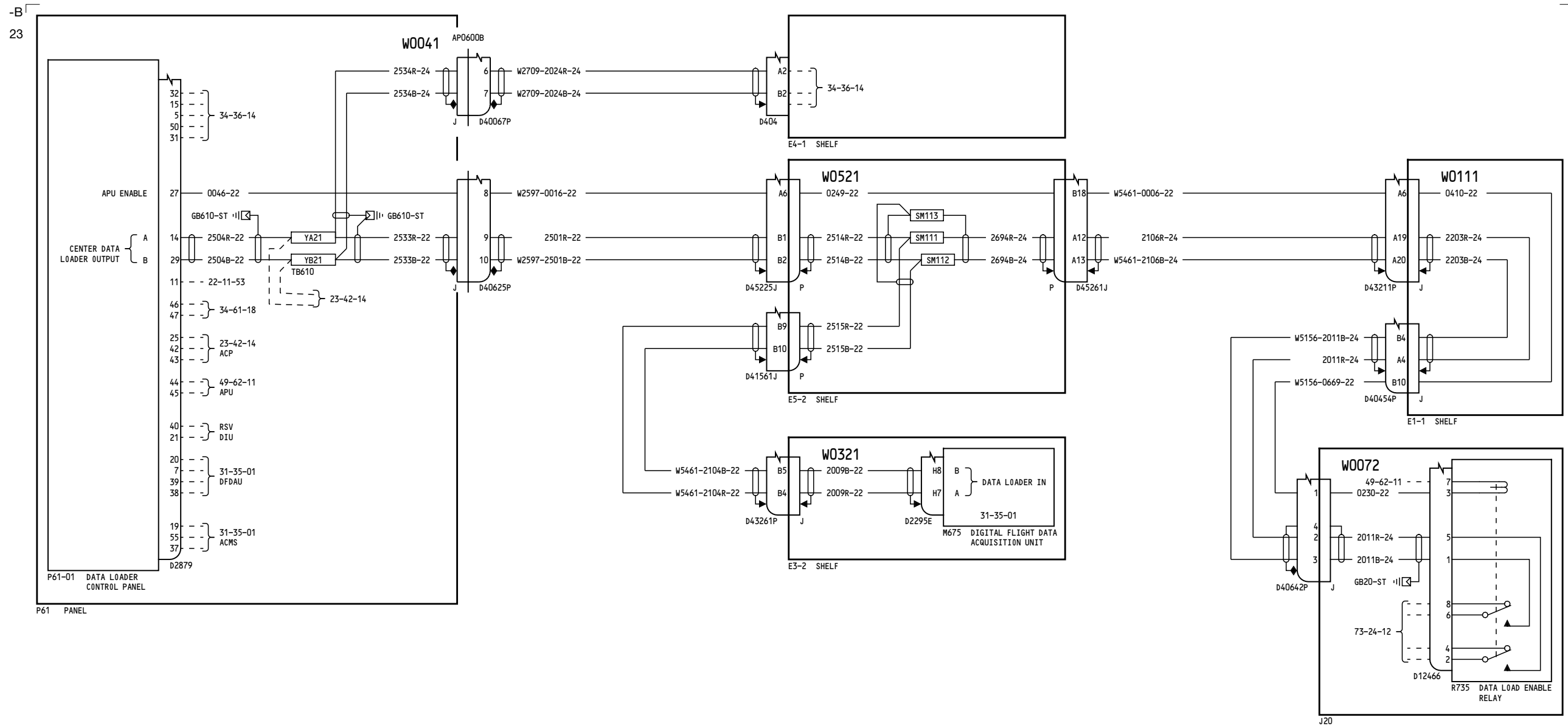
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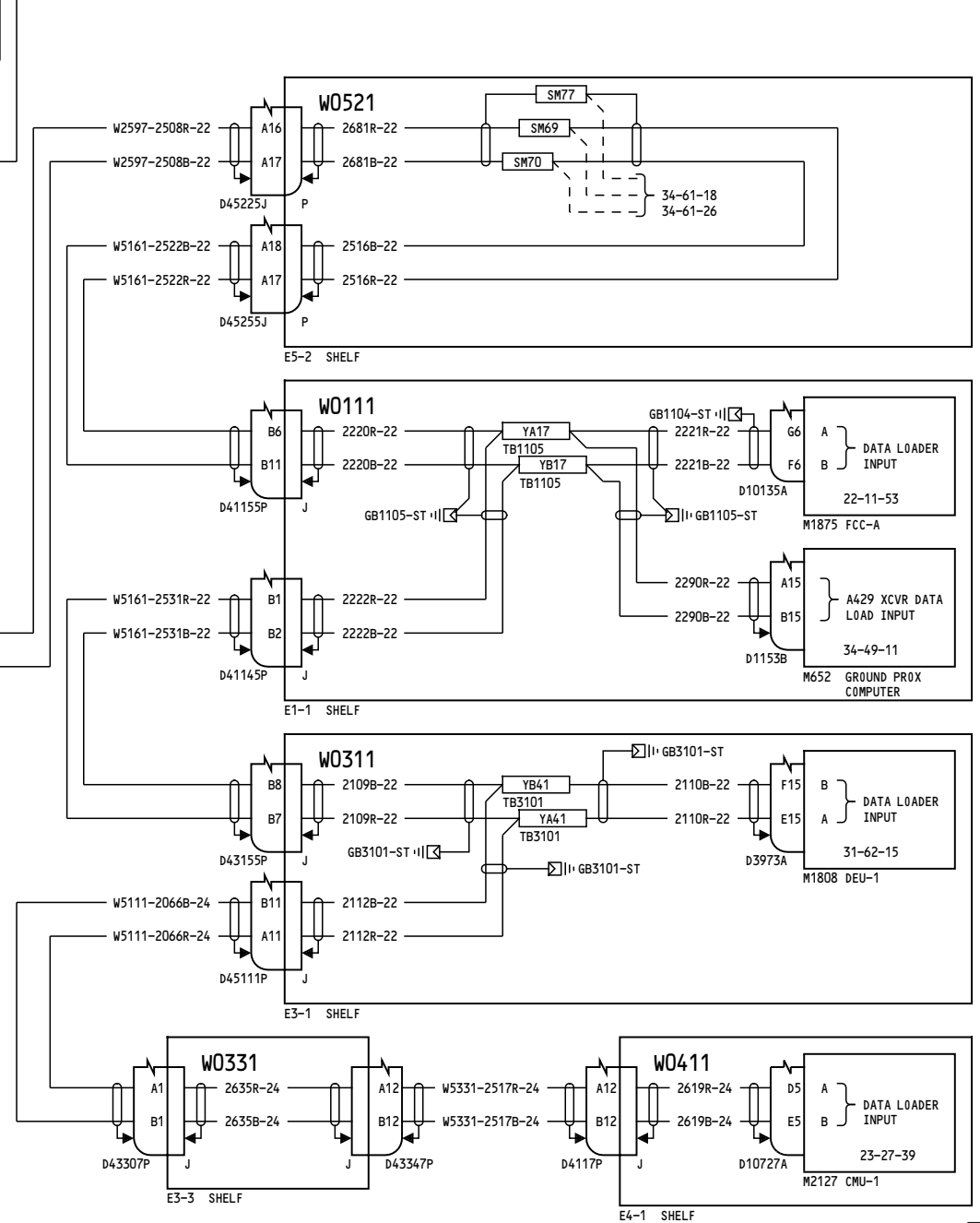
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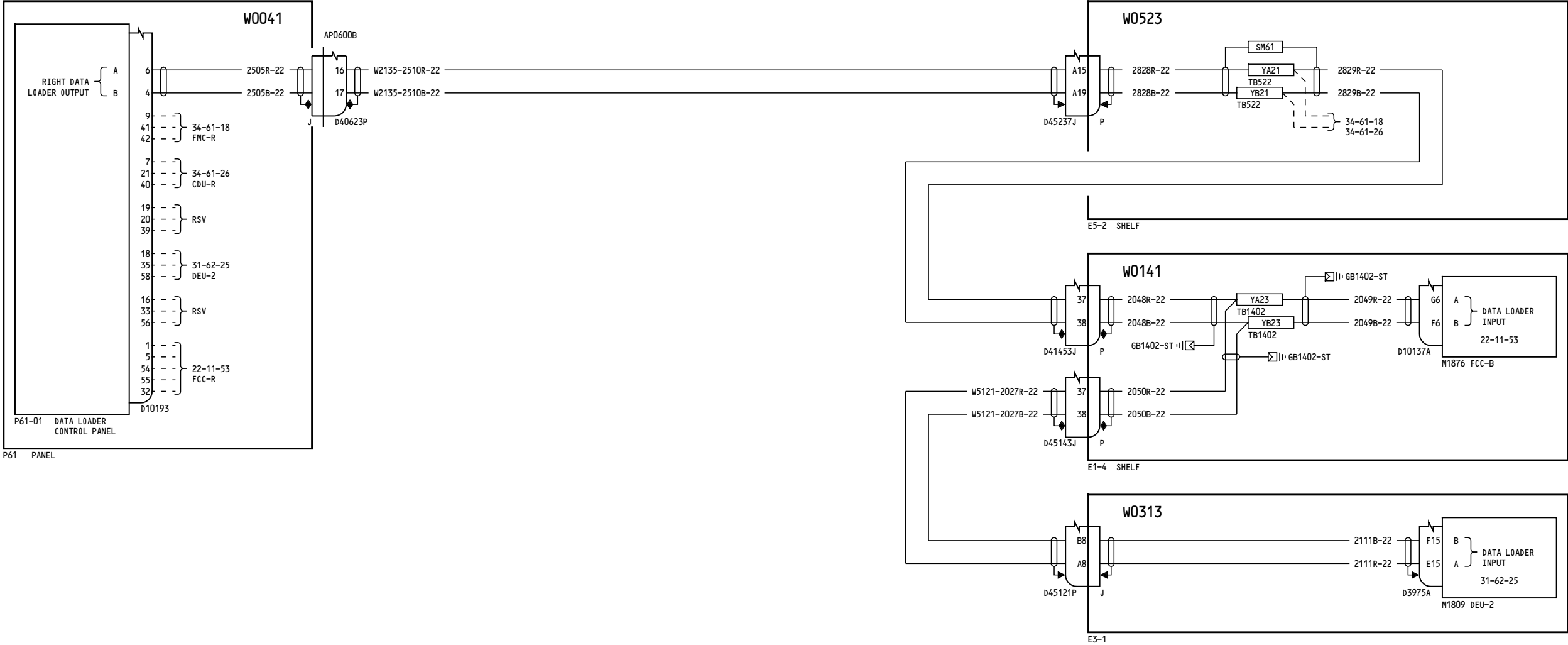
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YT106-YT110

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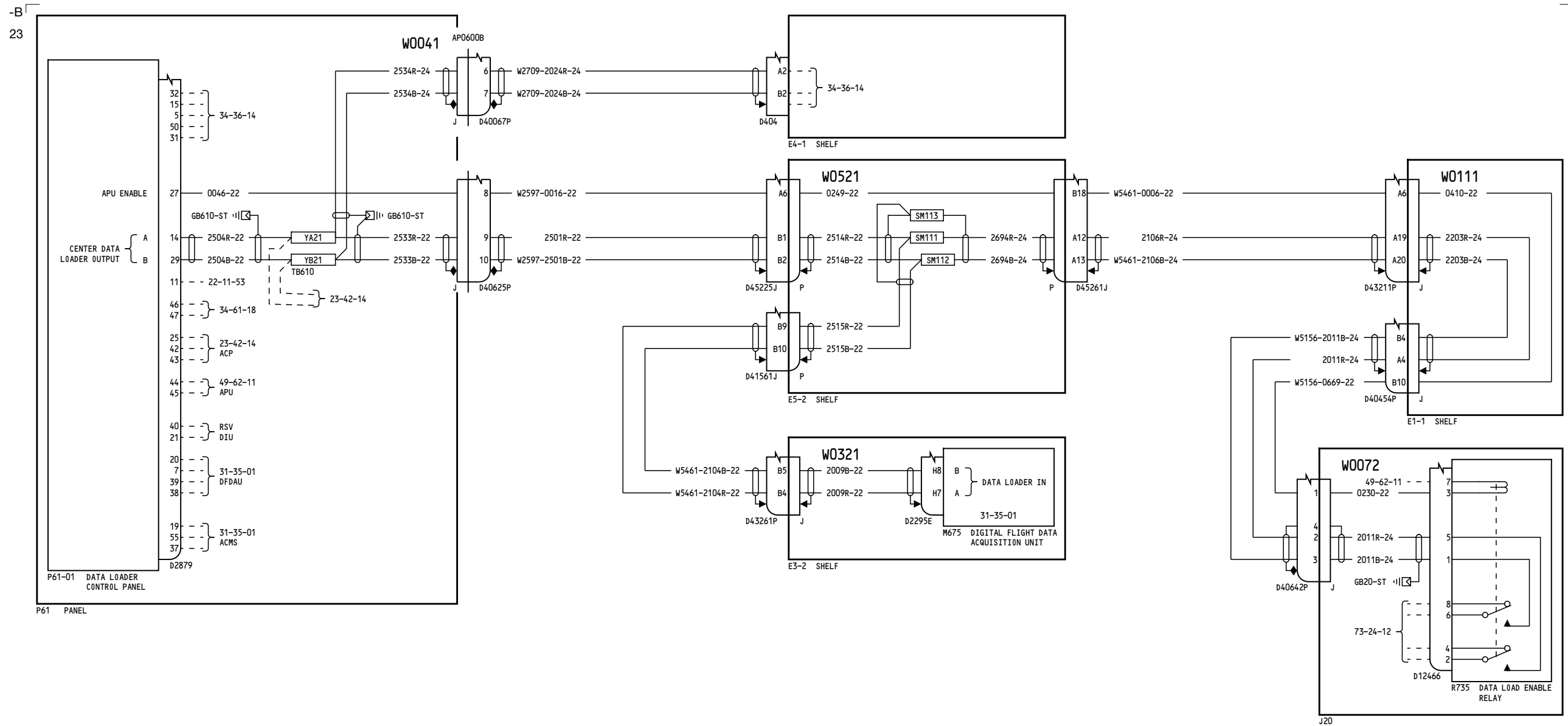
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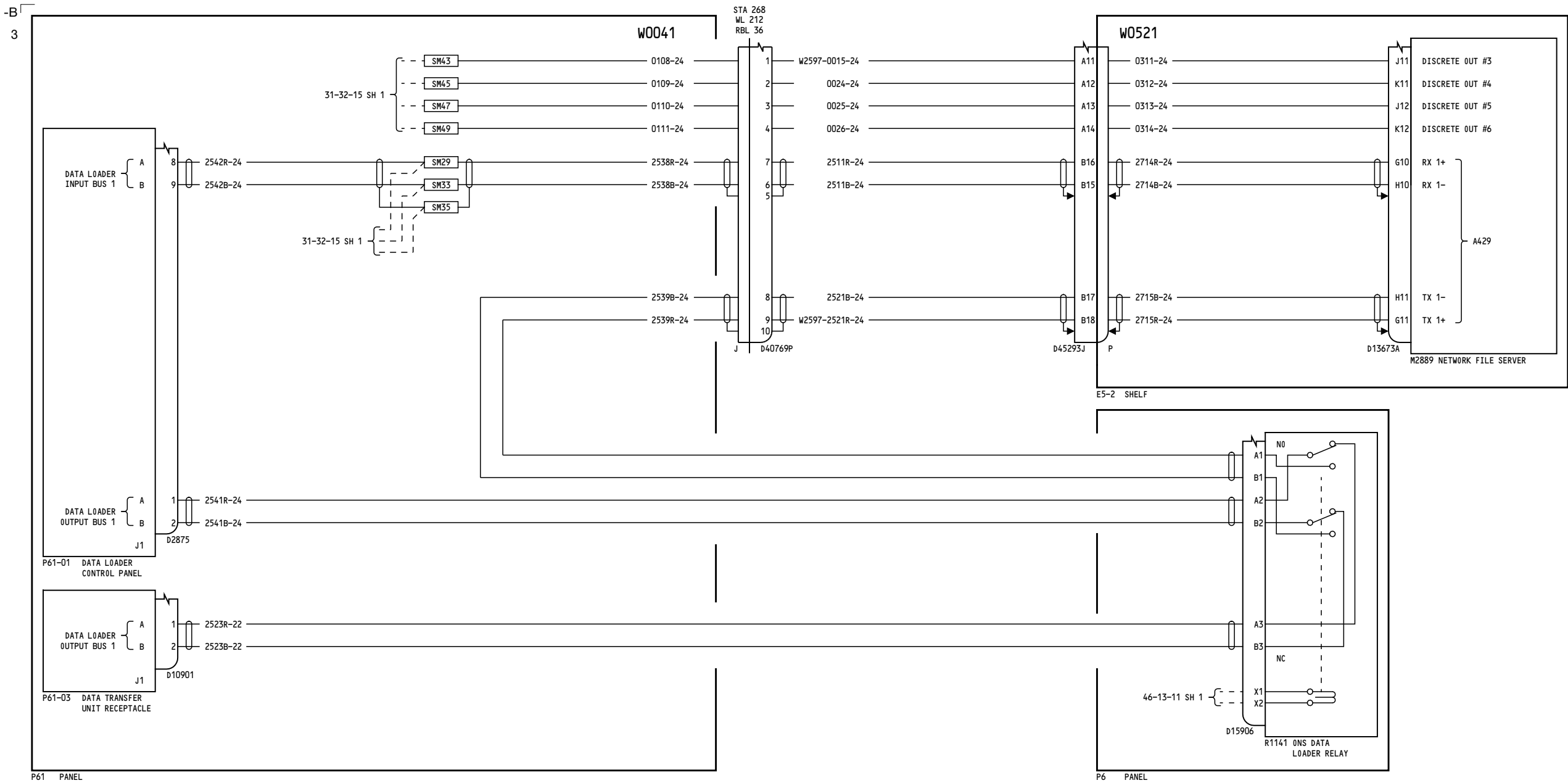
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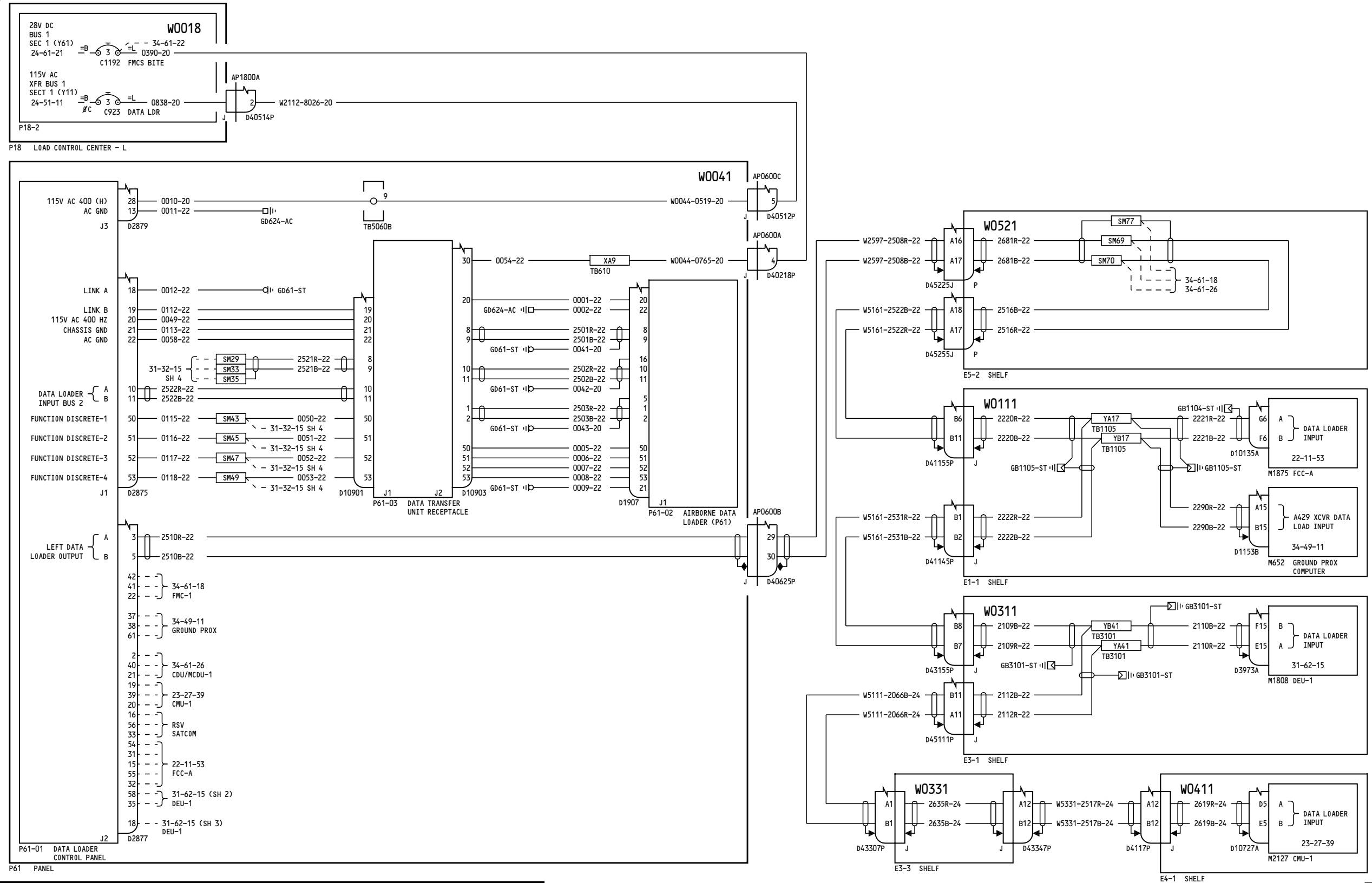
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YT111-YT120

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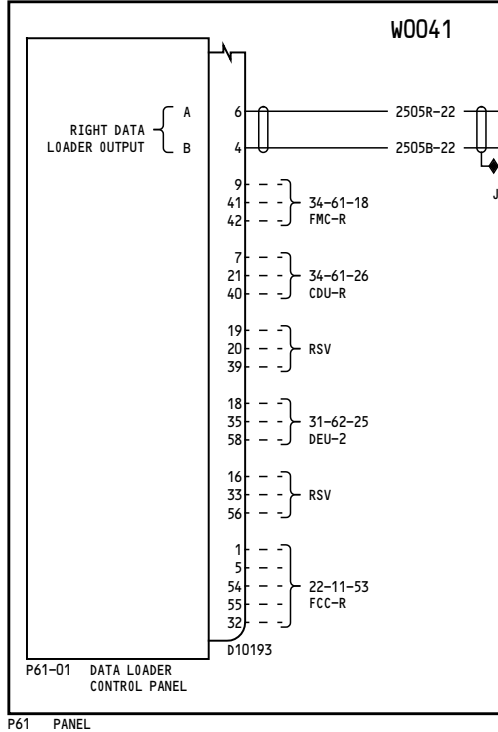
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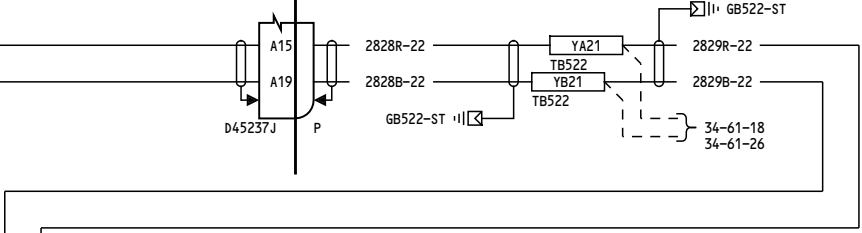


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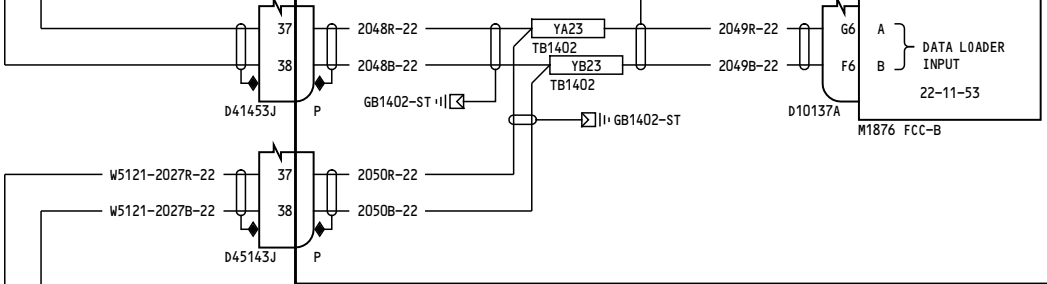
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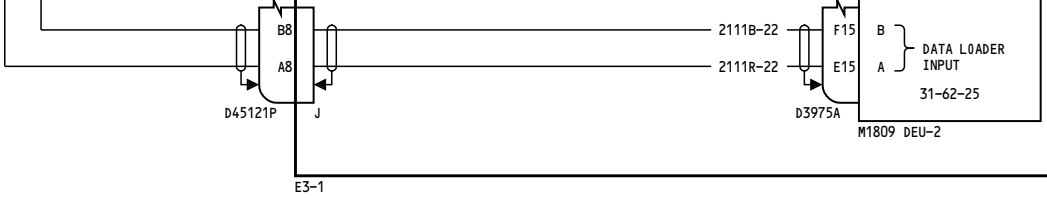
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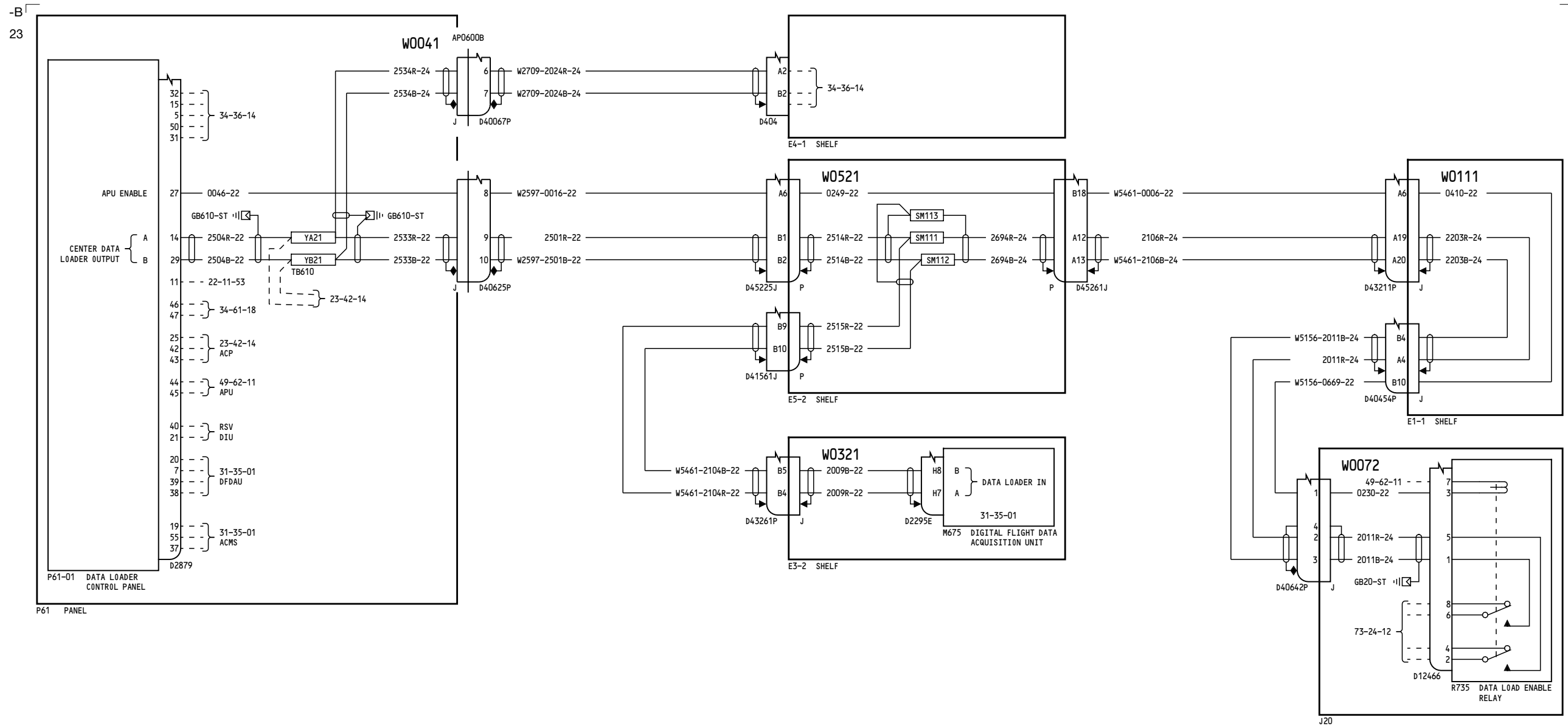
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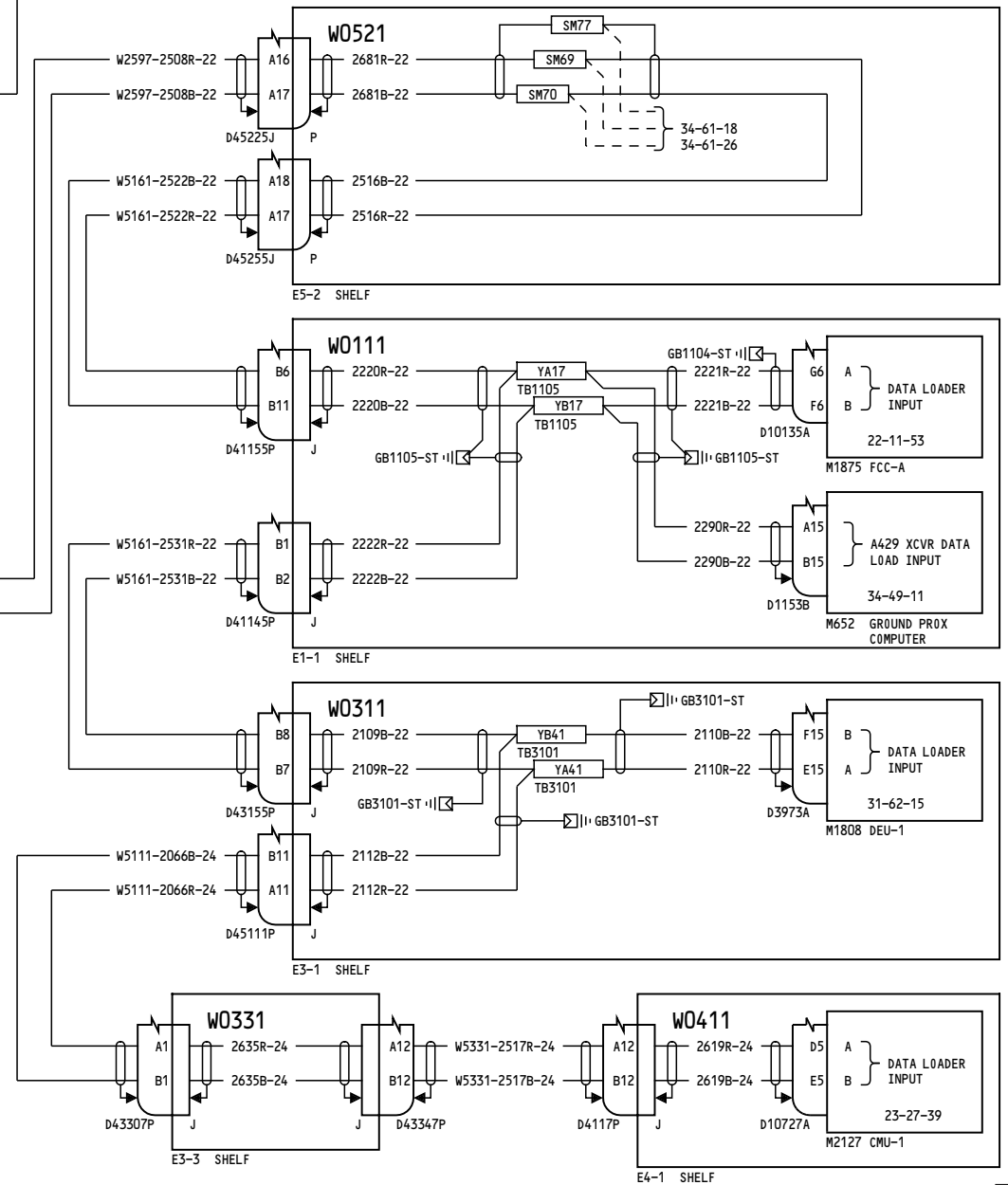
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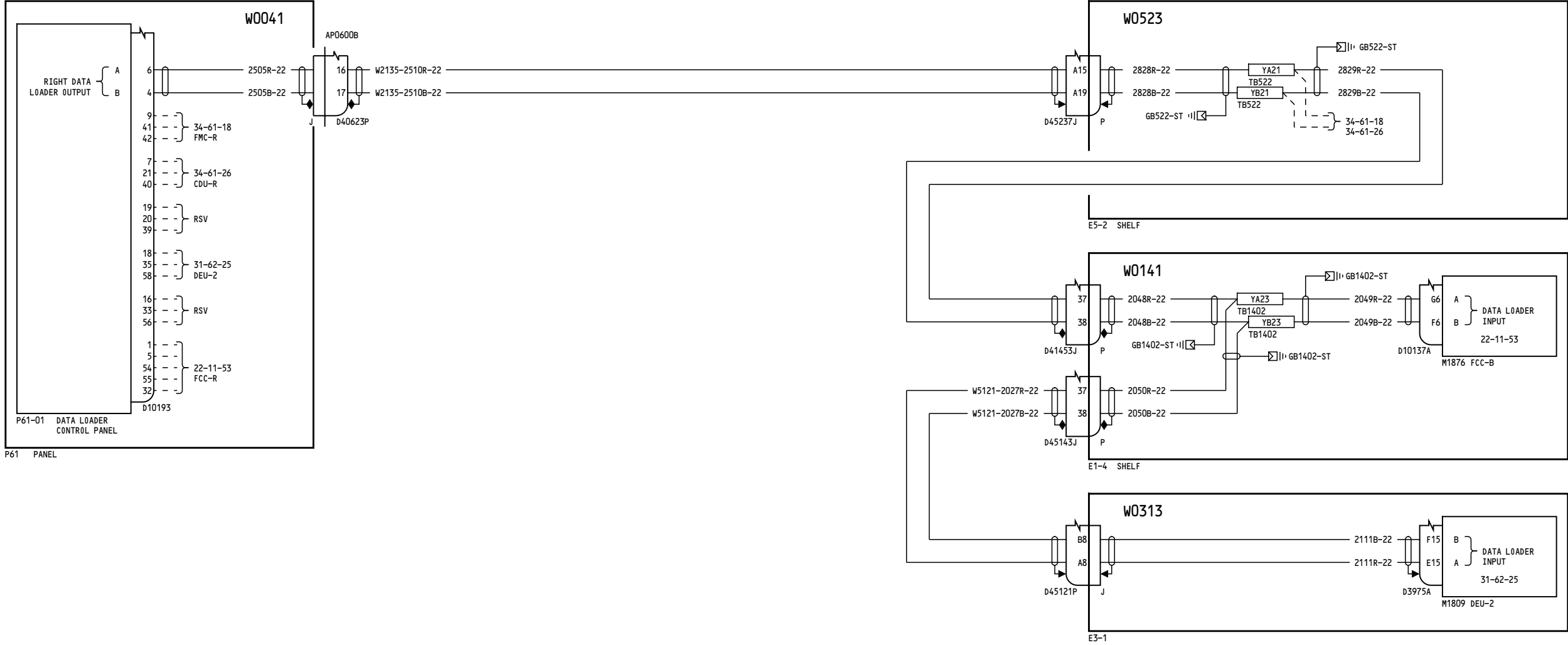
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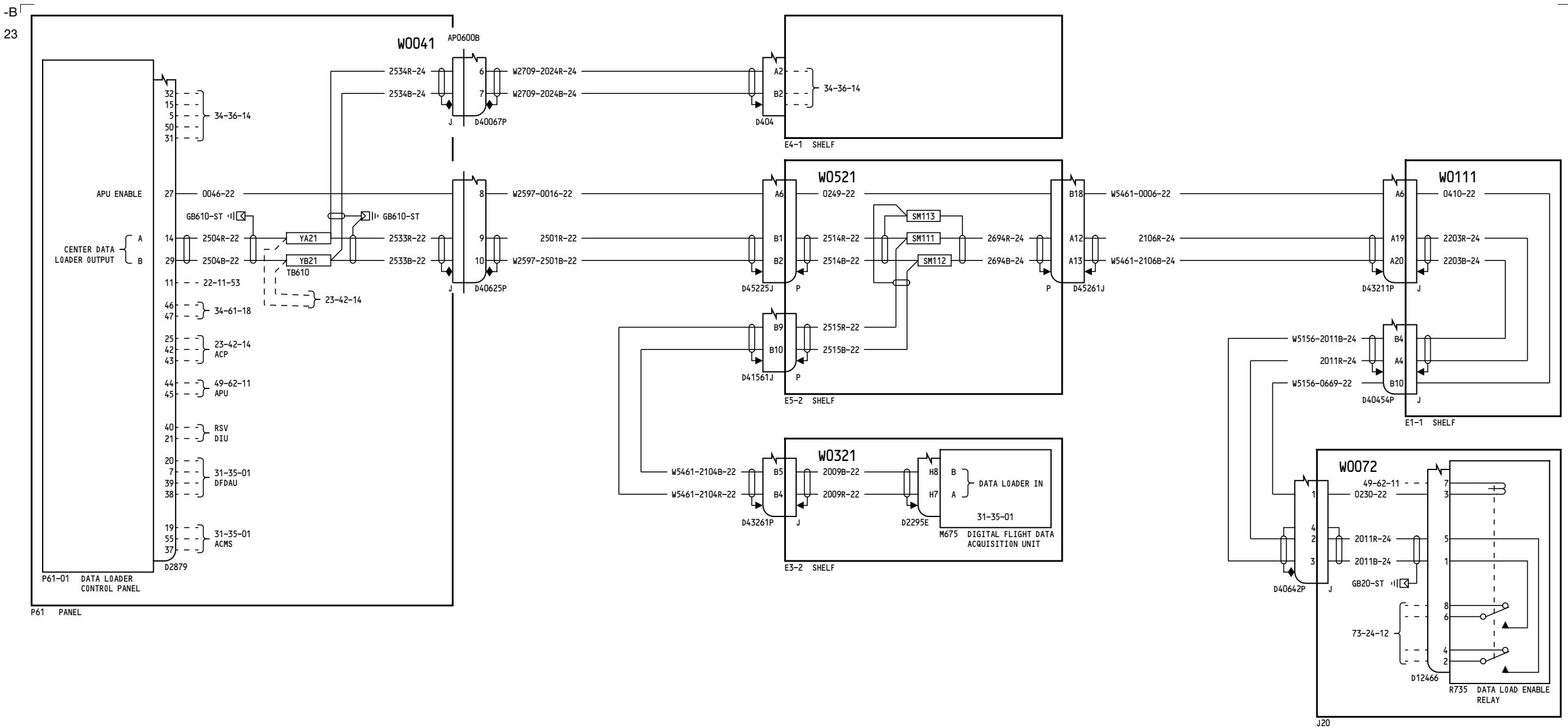
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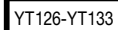
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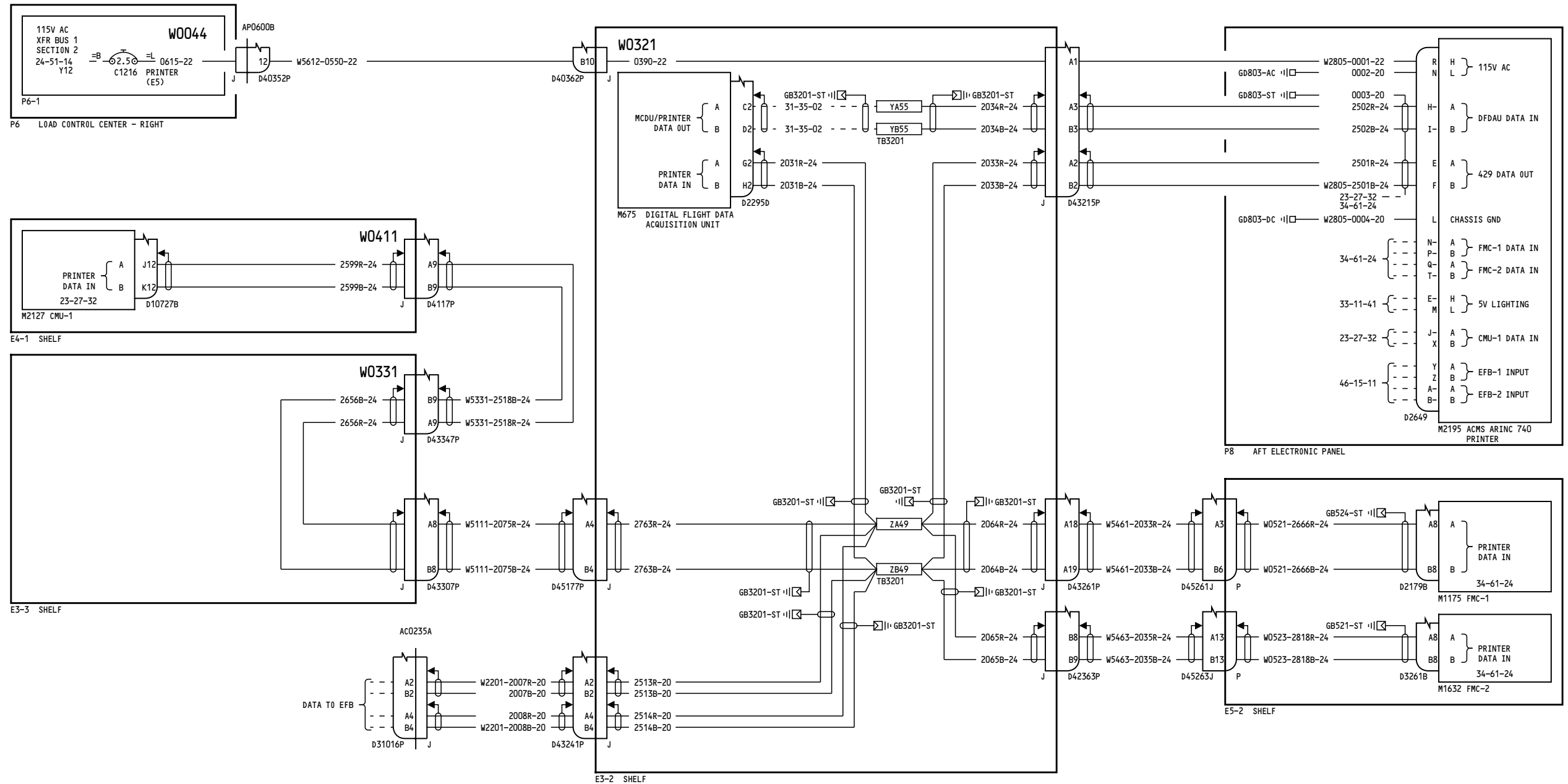
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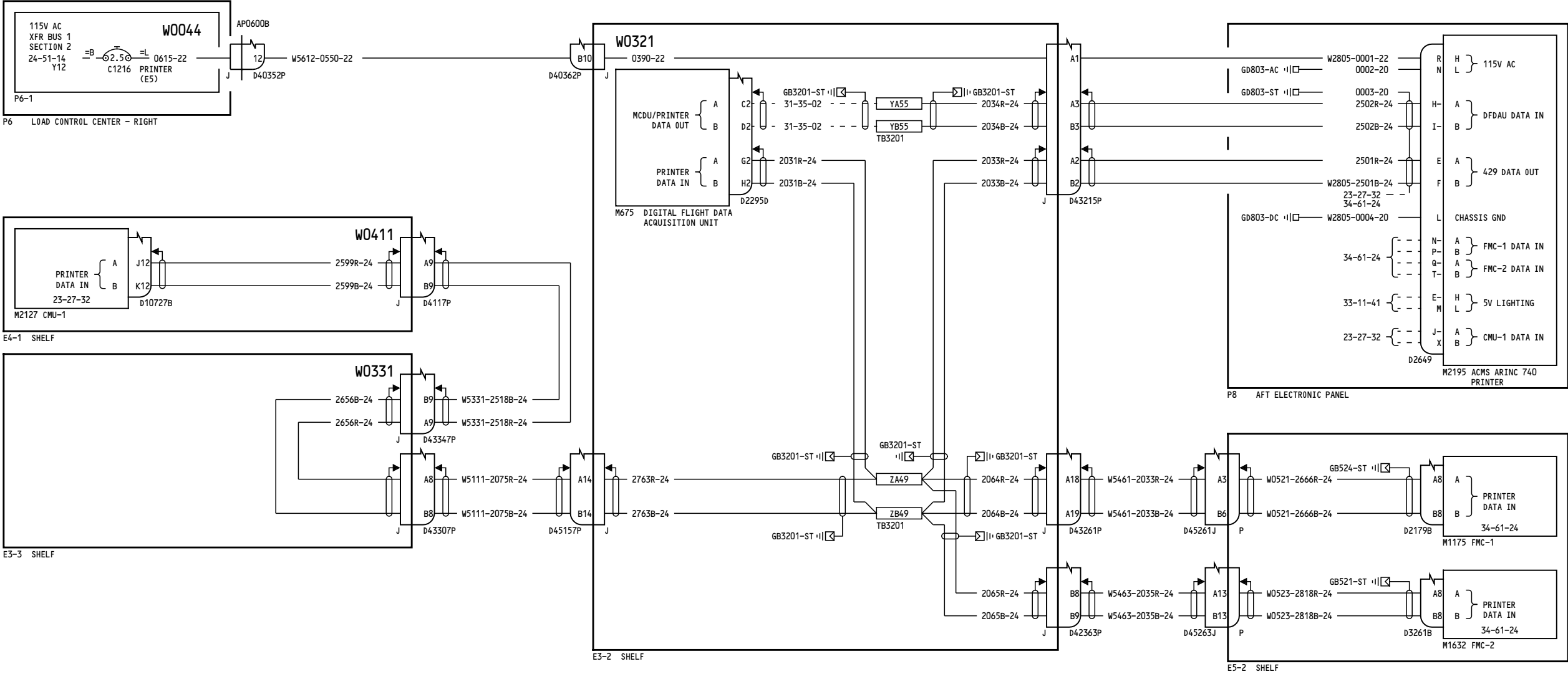
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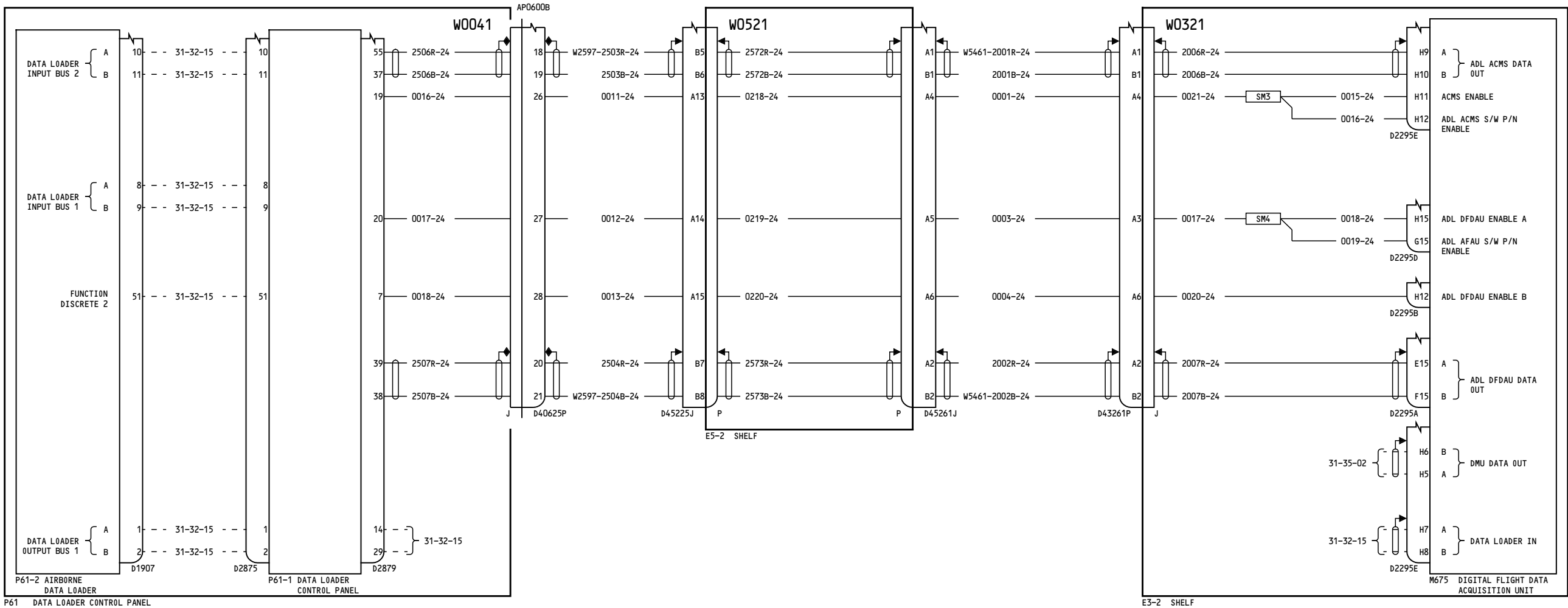
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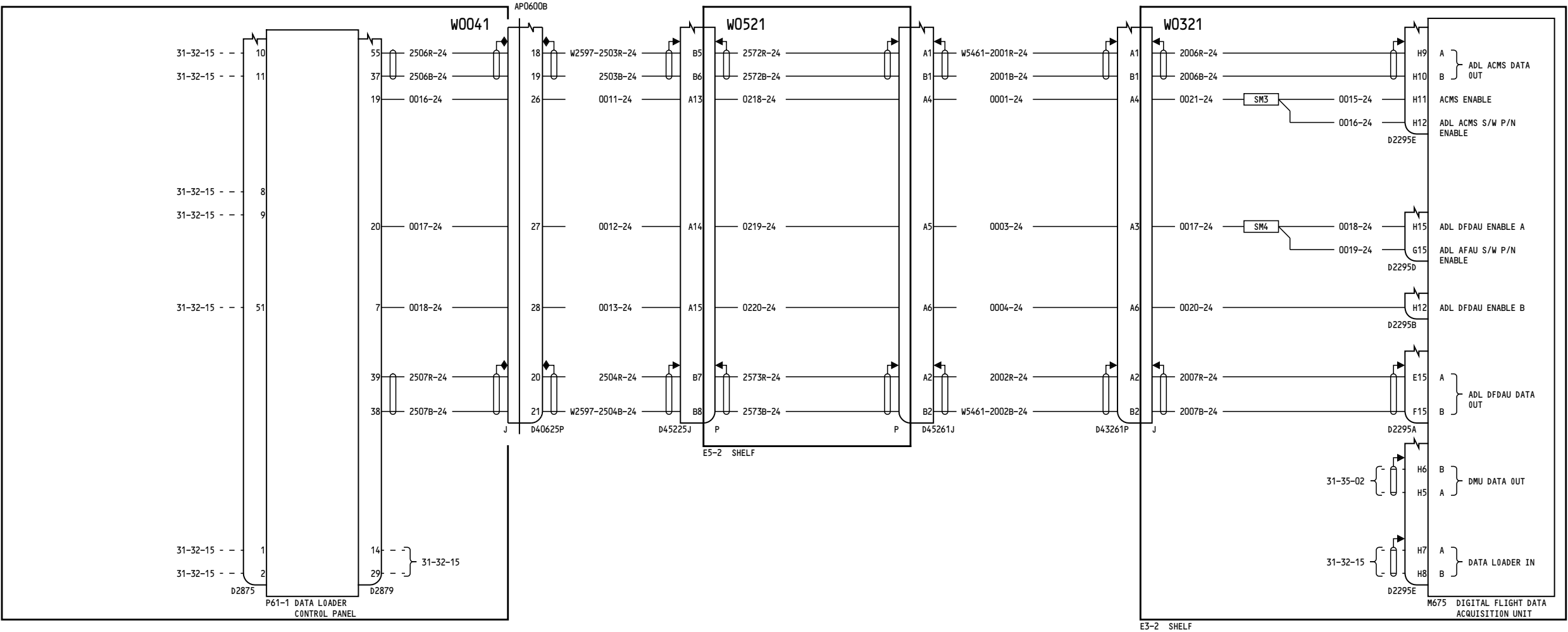
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DIGITAL FLIGHT DATA
RECORDER SYSTEM - DATA
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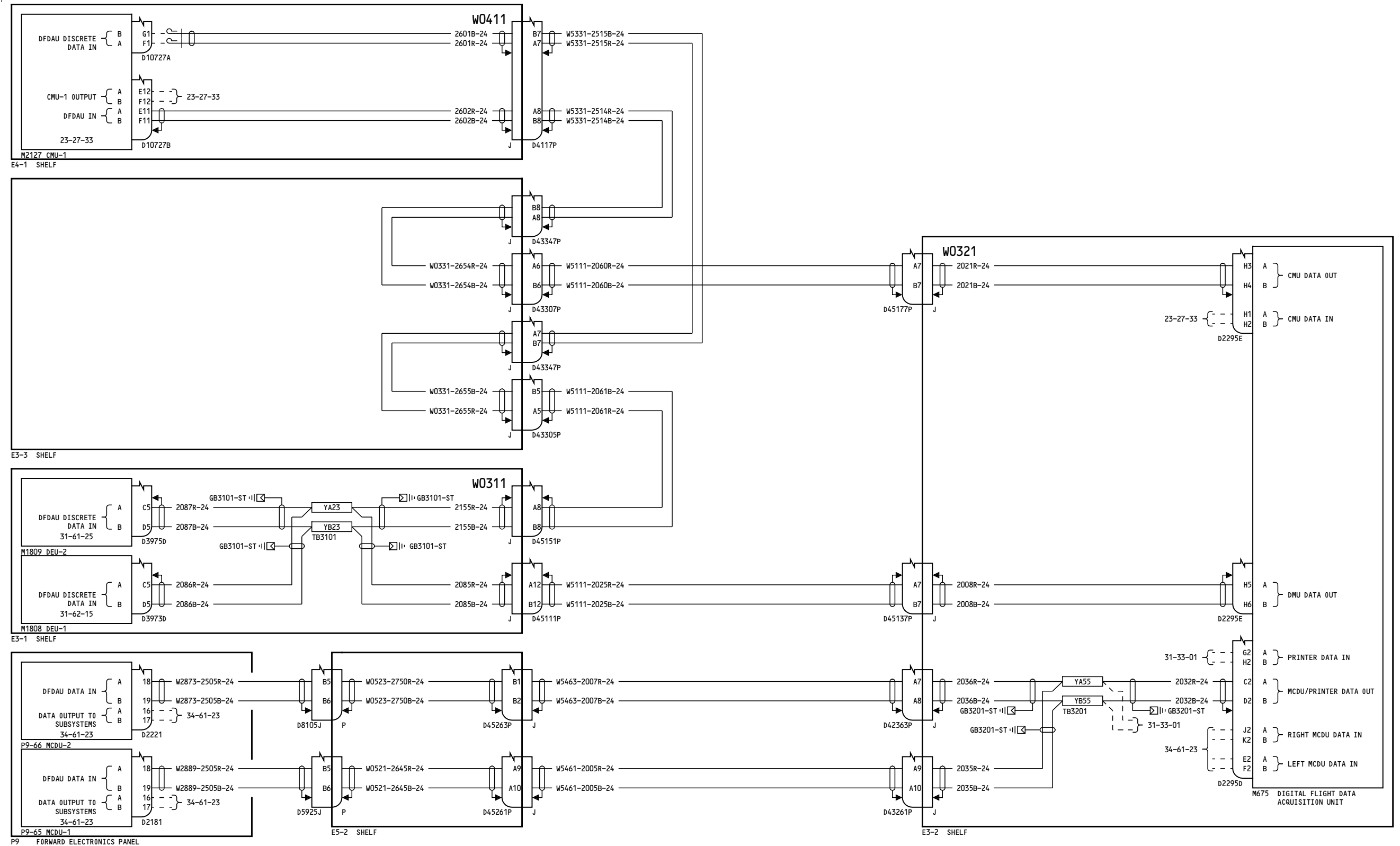
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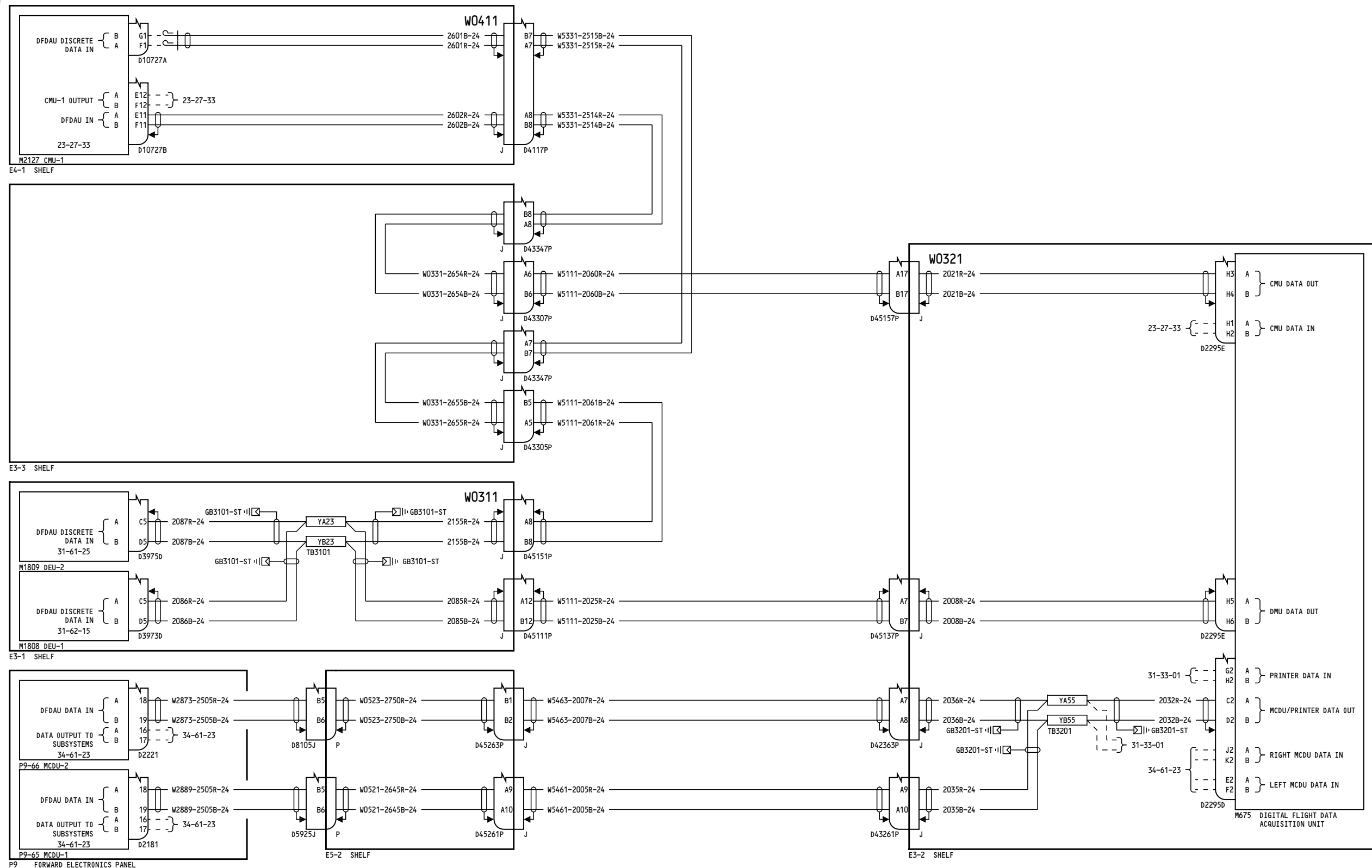
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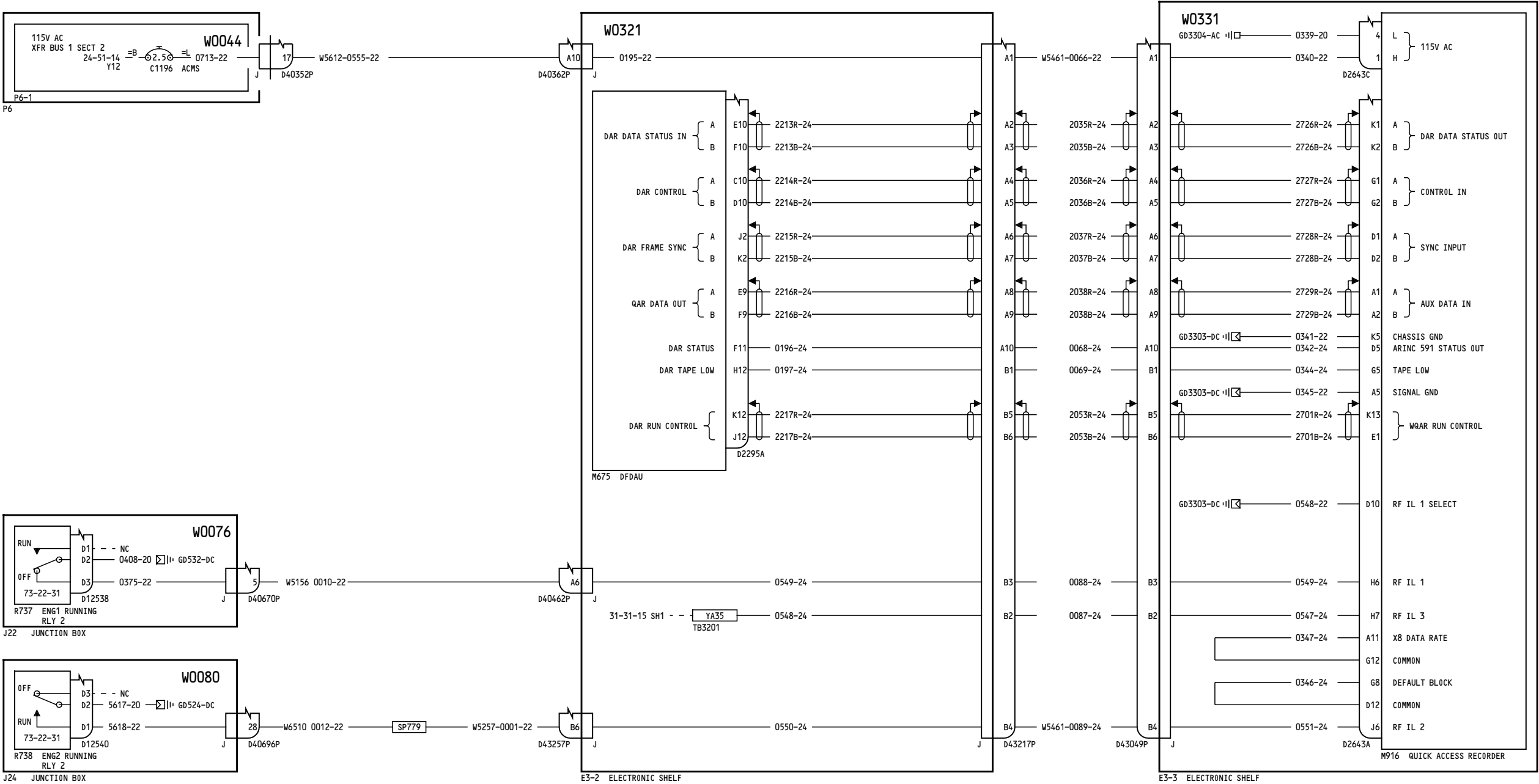
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DIGITAL FLIGHT DATA
RECORDER SYSTEM - ACMS
INTERFACE 3

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The diagram illustrates the wiring for the Digital Flight Data Acquisition Unit (M675) across three shelves (E1-1, E2-2, E3-1). The unit is divided into three main sections: W0311, W0321, and W0322.

Shelf E3-1:

- W0311:** Contains two electronic units (M1808 and M1809). M1808 (Display Electronic Unit 1) has two channels (A and B) for ENG 2 EEC (CH A) and ENG 1 EEC (CH A). M1809 (Display Electronic Unit 2) has two channels (A and B) for ENG 1 EEC (CH B) and ENG 2 EEC (CH B). Connections are made via J10 and K10 terminals to D3973D, D3973A, D3975B, and D3975E.
- W0321:** Contains two channels (A and B) for ENG 2 CH A (PORT 44), ENG 1 CH A (PORT 42), ENG 1 CH B (PORT 43), and ENG 2 CH B (PORT 45). Connections are made via J10 and K10 terminals to D45137P and D45147P.
- W0322:** Contains two channels (A and B) for CPC-1 (PORT 33) and CPC-2 (PORT 30). Connections are made via J10 and K10 terminals to D2295D and D2295A.

Shelf E2-2:

- W0220:** Contains one channel (A) for M1653 CABIN PRESSURE NO. 1. Connections are made via J10 and K10 terminals to D10738A and D40348P.

Shelf E1-1:

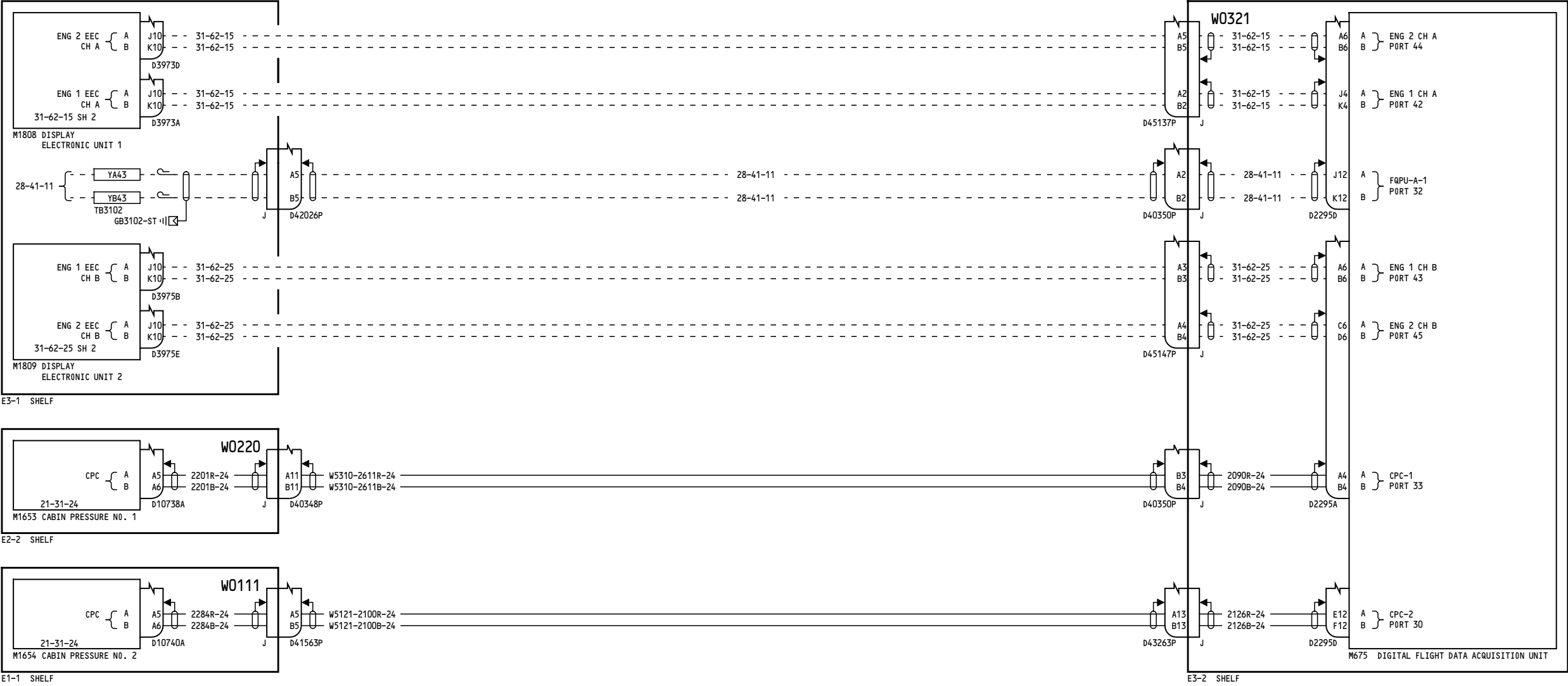
- W0111:** Contains one channel (A) for M1654 CABIN PRESSURE NO. 2. Connections are made via J10 and K10 terminals to D10740A and D41563P.

The diagram shows the following connections:

- W0311:** ENG 2 EEC CH A (A, B) to J10, K10; ENG 1 EEC CH A (A, B) to J10, K10; ENG 1 EEC CH B (A, B) to J10, K10; ENG 2 EEC CH B (A, B) to J10, K10.
- W0321:** ENG 2 CH A (A, B) to J10, K10; ENG 1 CH A (A, B) to J10, K10; ENG 1 CH B (A, B) to J10, K10; ENG 2 CH B (A, B) to J10, K10.
- W0322:** CPC-1 (A, B) to J10, K10; CPC-2 (A, B) to J10, K10.
- W0220:** M1653 CABIN PRESSURE NO. 1 (A) to J10, K10.
- W0111:** M1654 CABIN PRESSURE NO. 2 (A) to J10, K10.

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YT104-YT112, YT126-YT131

**DIGITAL FLIGHT DATA
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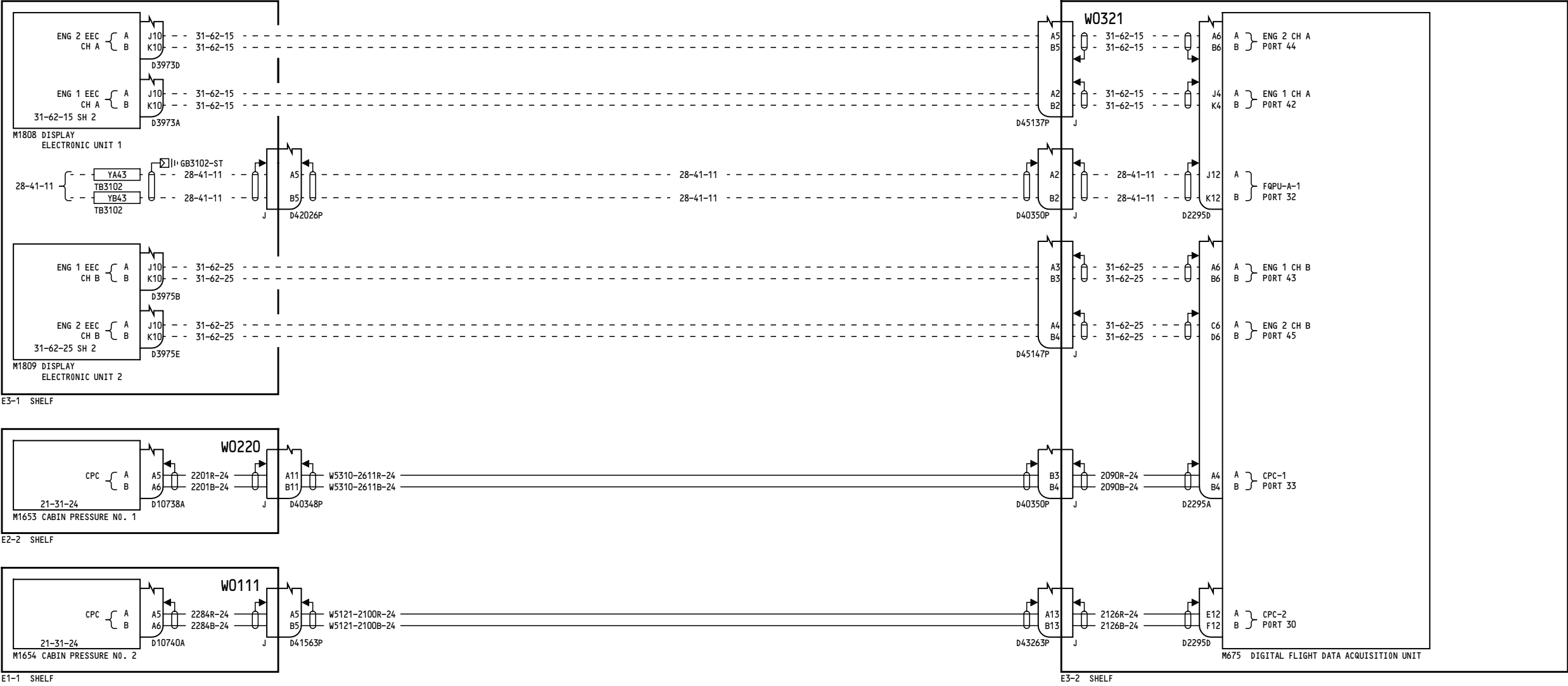
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YT113-YT115

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - ACMS
INTERFACE**

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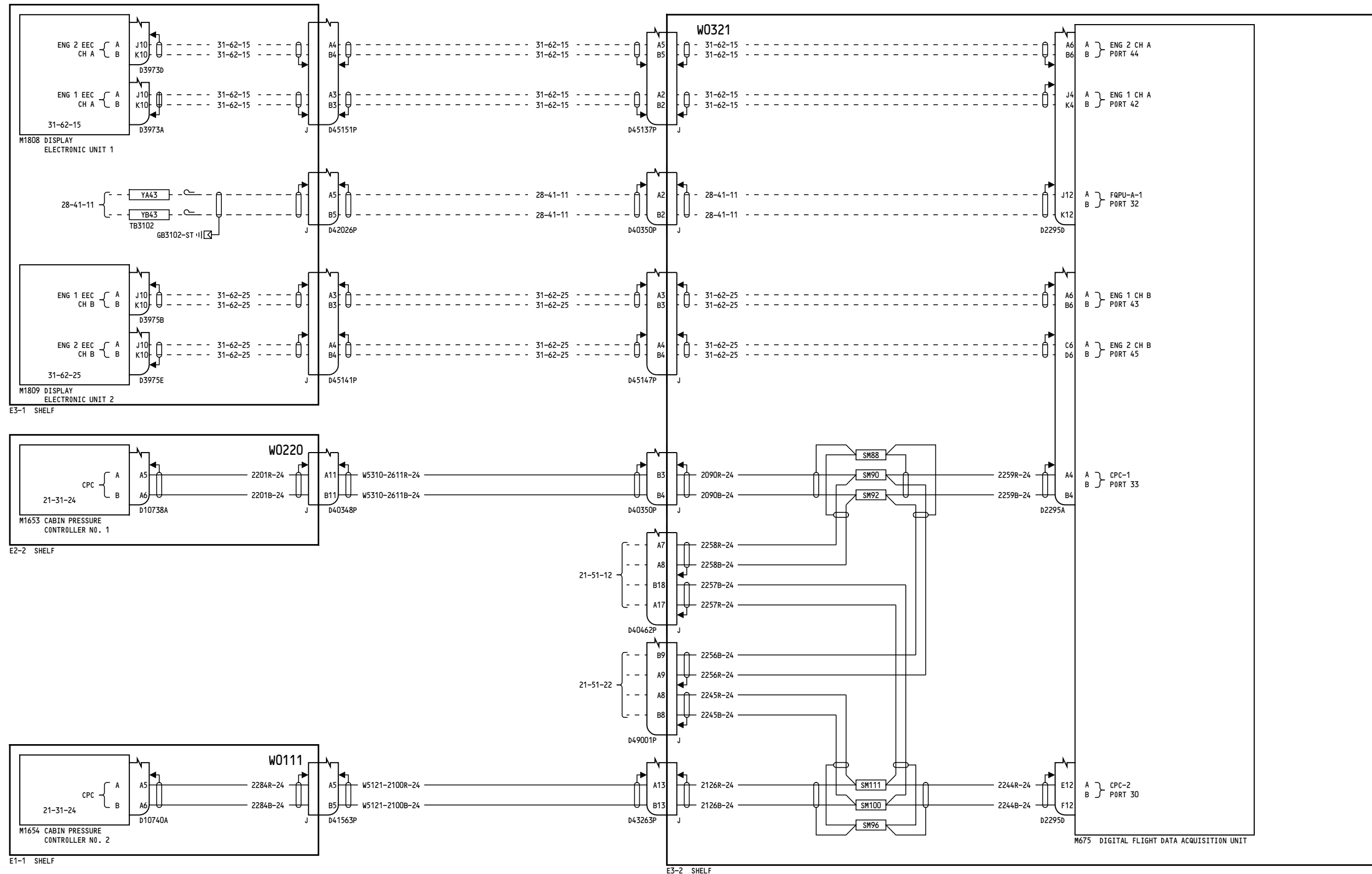
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YT116-YT120, YT132-YT133

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - ACMS
INTERFACE**

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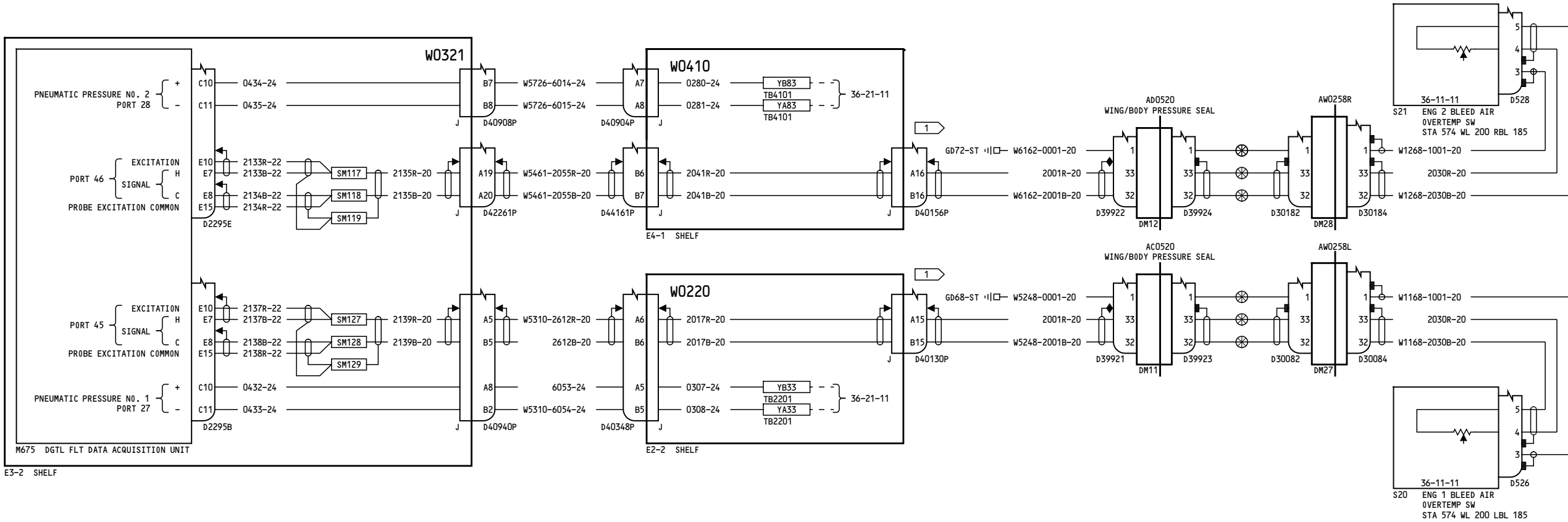
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NOTES:

1 MAXIMUM LENGTH OF GROUND WIRE SHALL NOT EXCEED 18 INCHES

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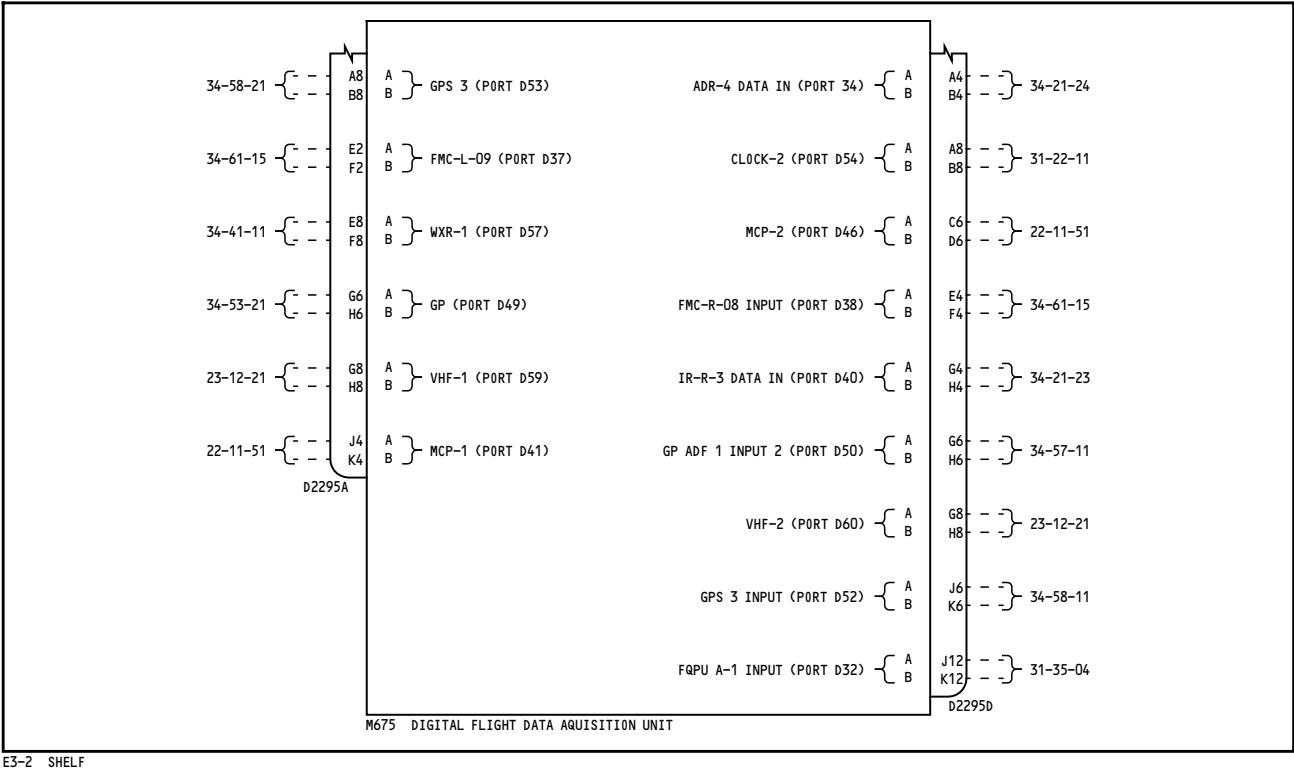
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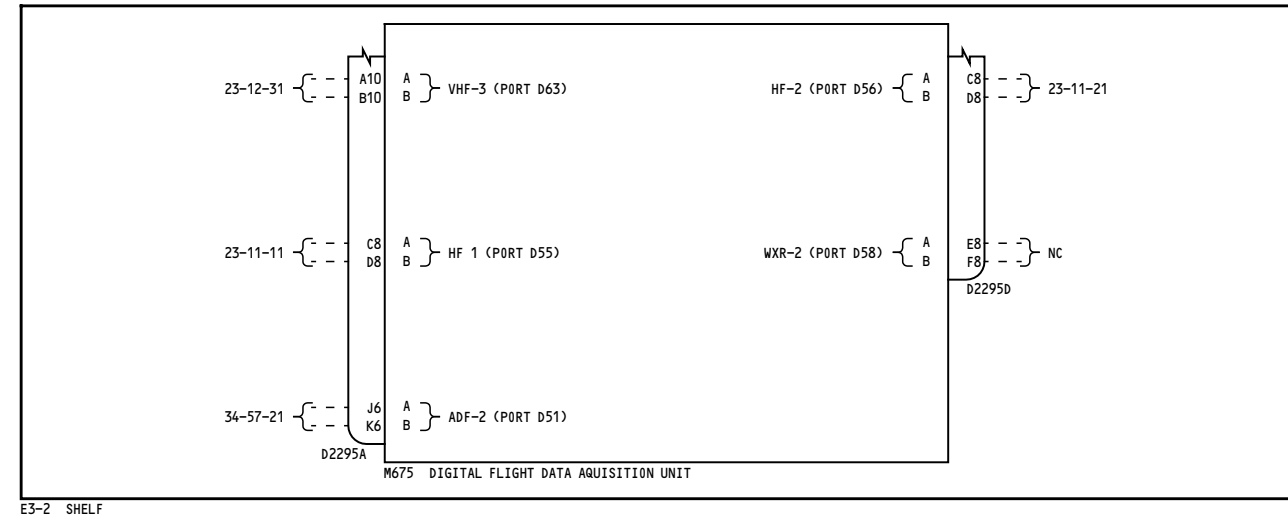
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YT104, YT106-YT133

**ACMS DIGITAL INTERFACE
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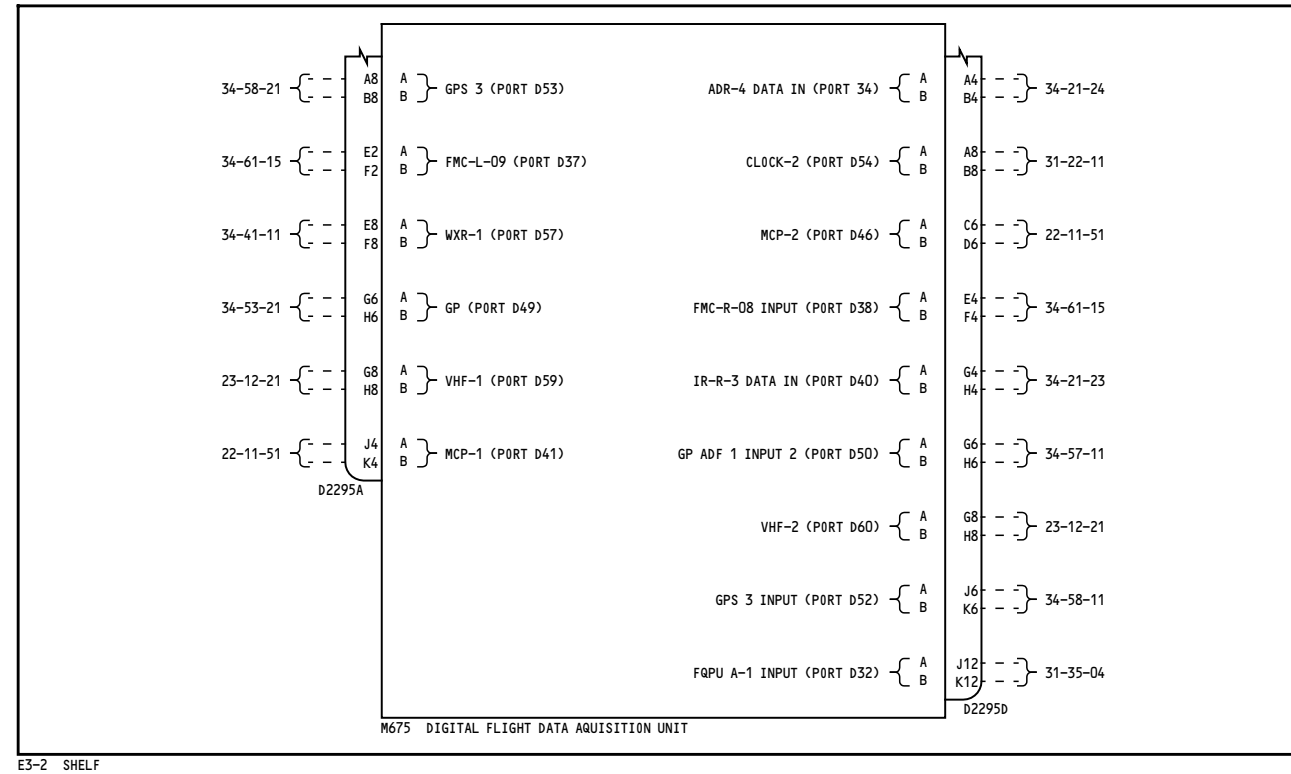
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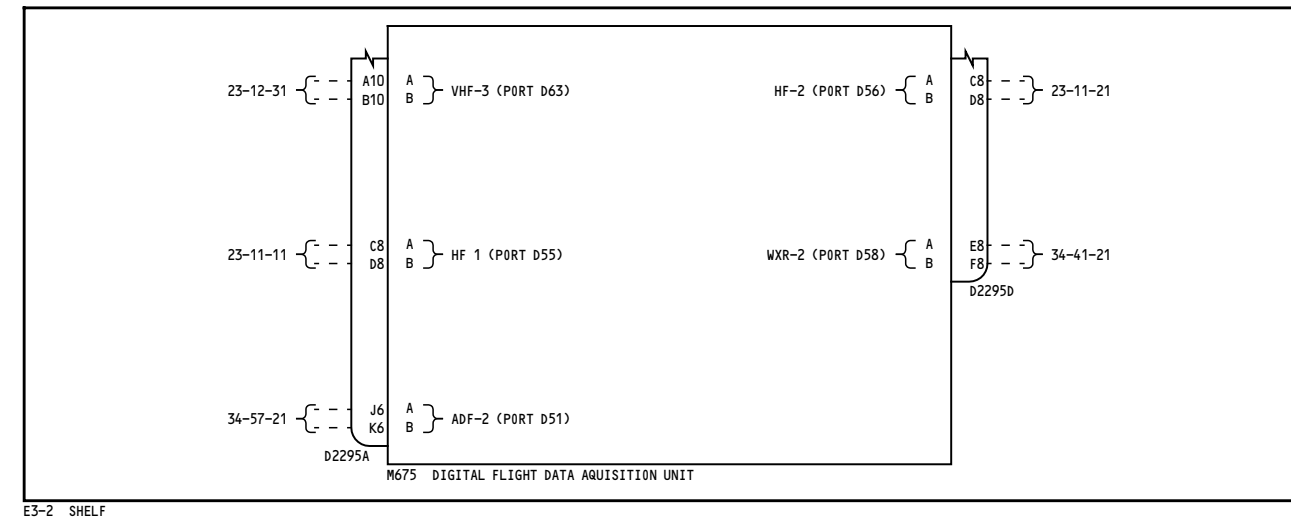
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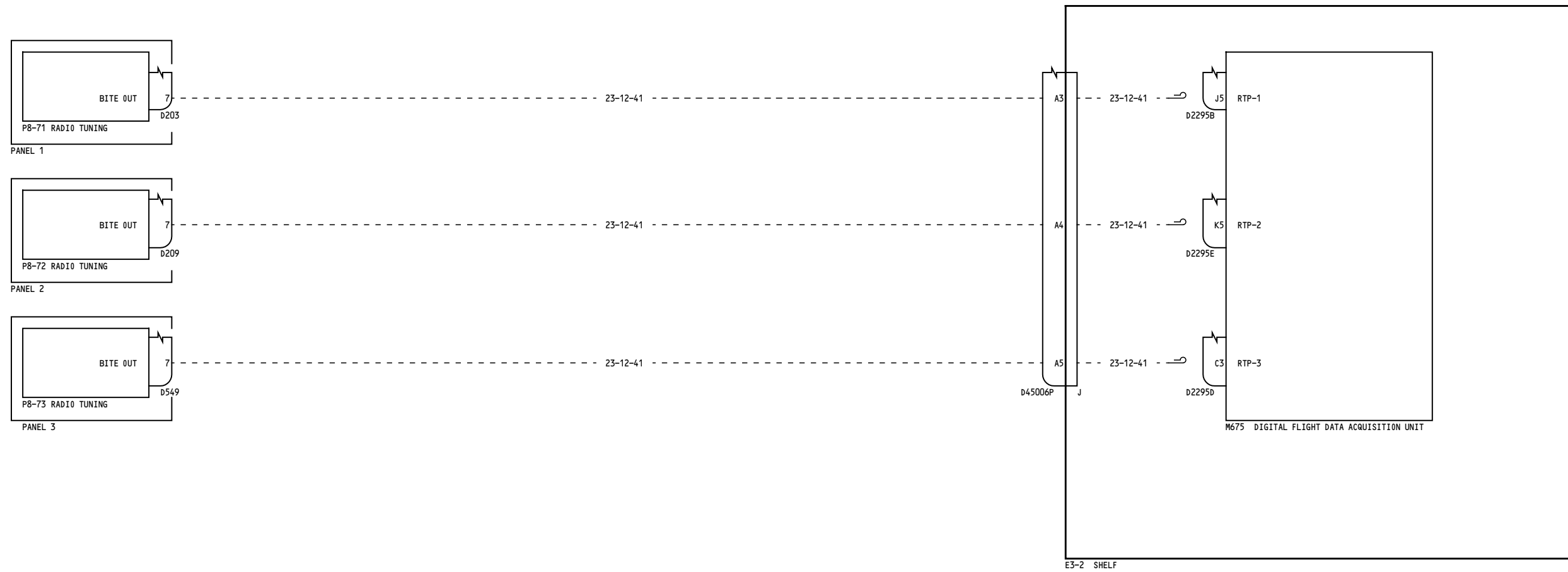
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YT104, YT106-YT133

**ACMS DISCRETE INTERFACE
GROUP 2**

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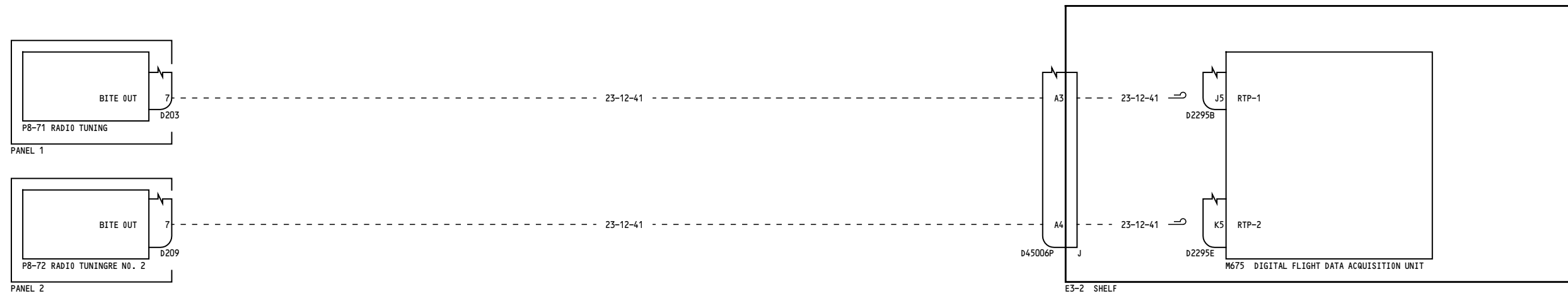
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YT105

**ACMS DISCRETE INTERFACE
GROUP 2**

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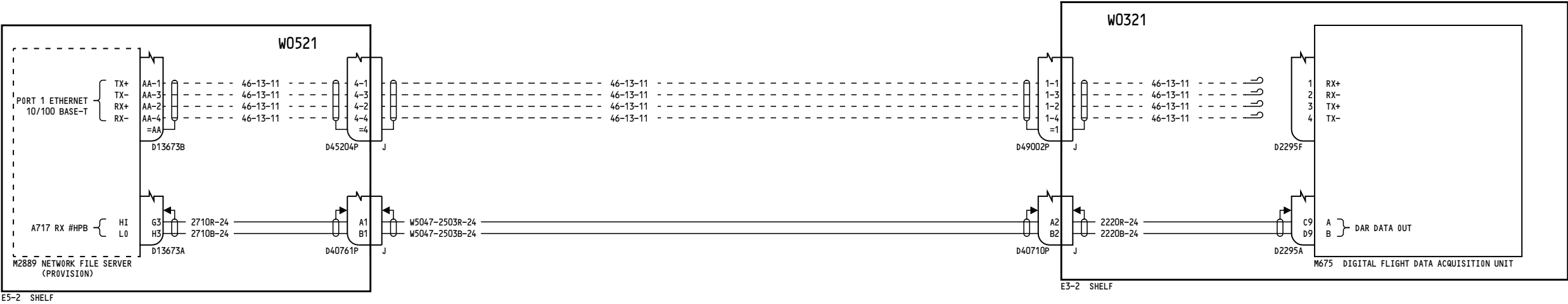
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ACMS NFS INTERFACE

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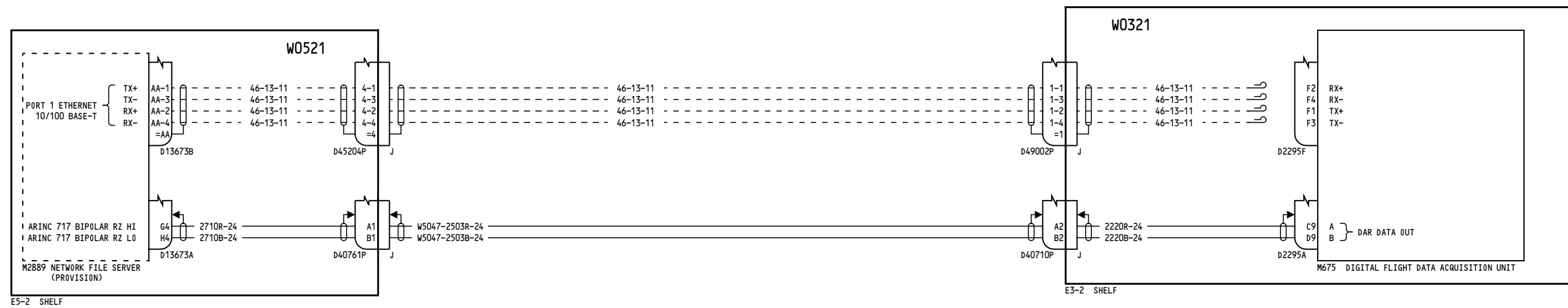
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YT105, YT126-YT133

ACMS NFS INTERFACE

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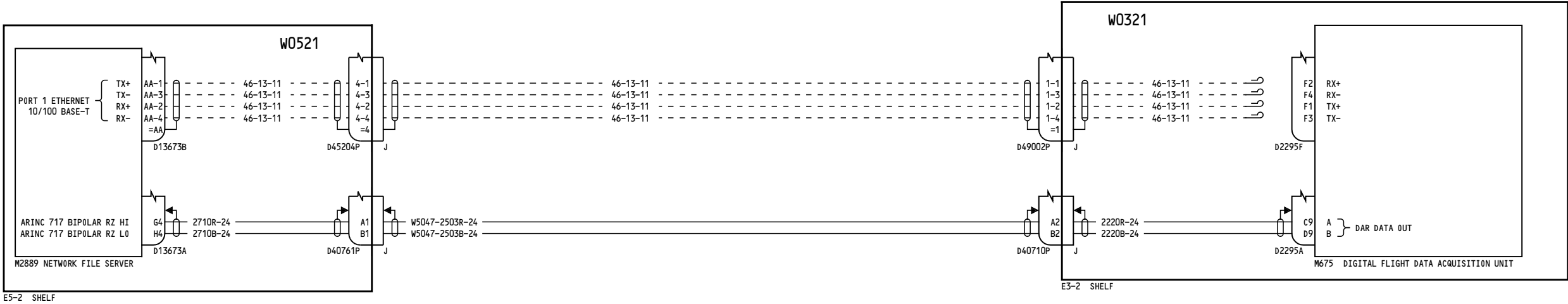
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YT106-YT120

ACMS NFS INTERFACE

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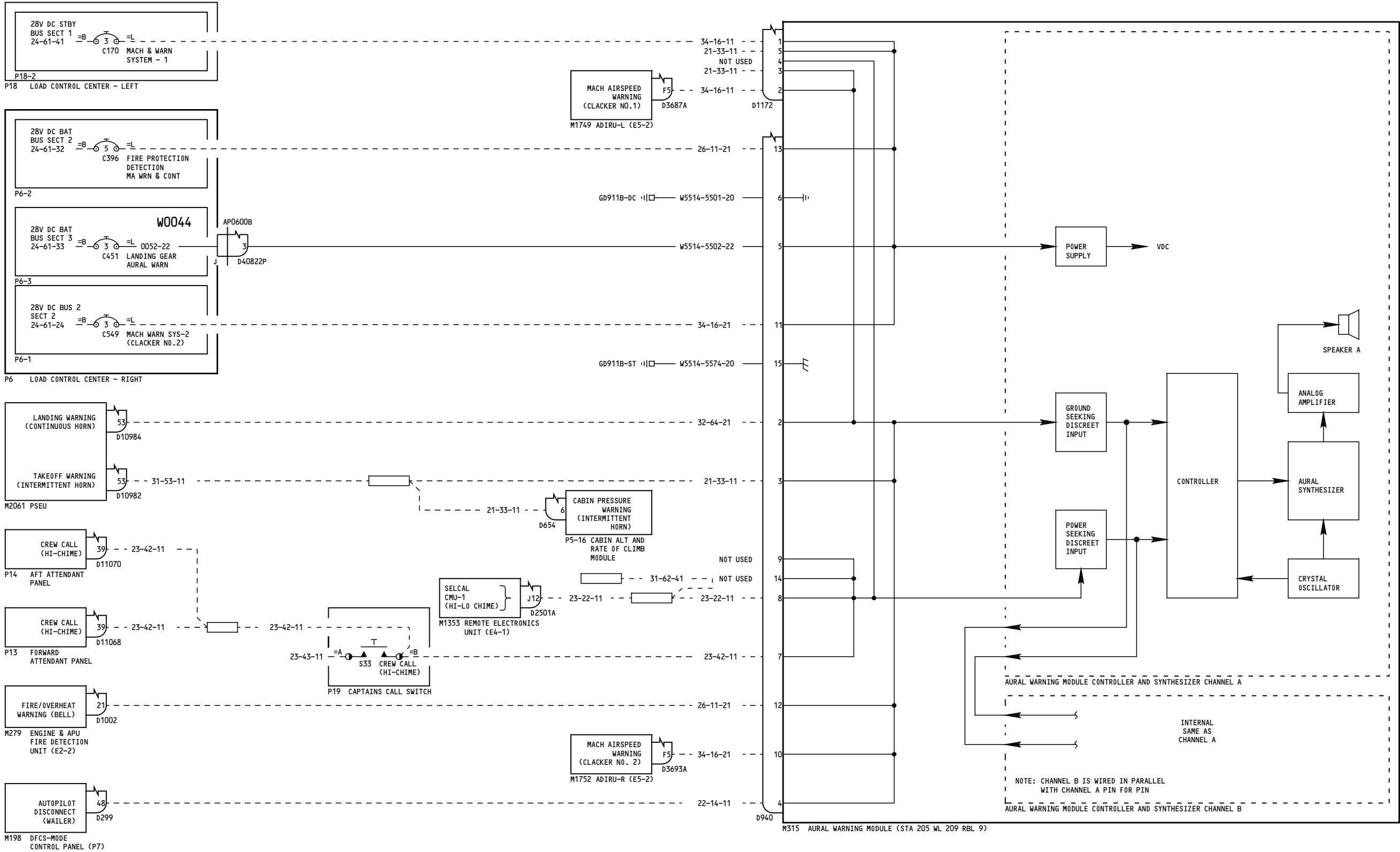
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YT101-YT105, YT126-YT133

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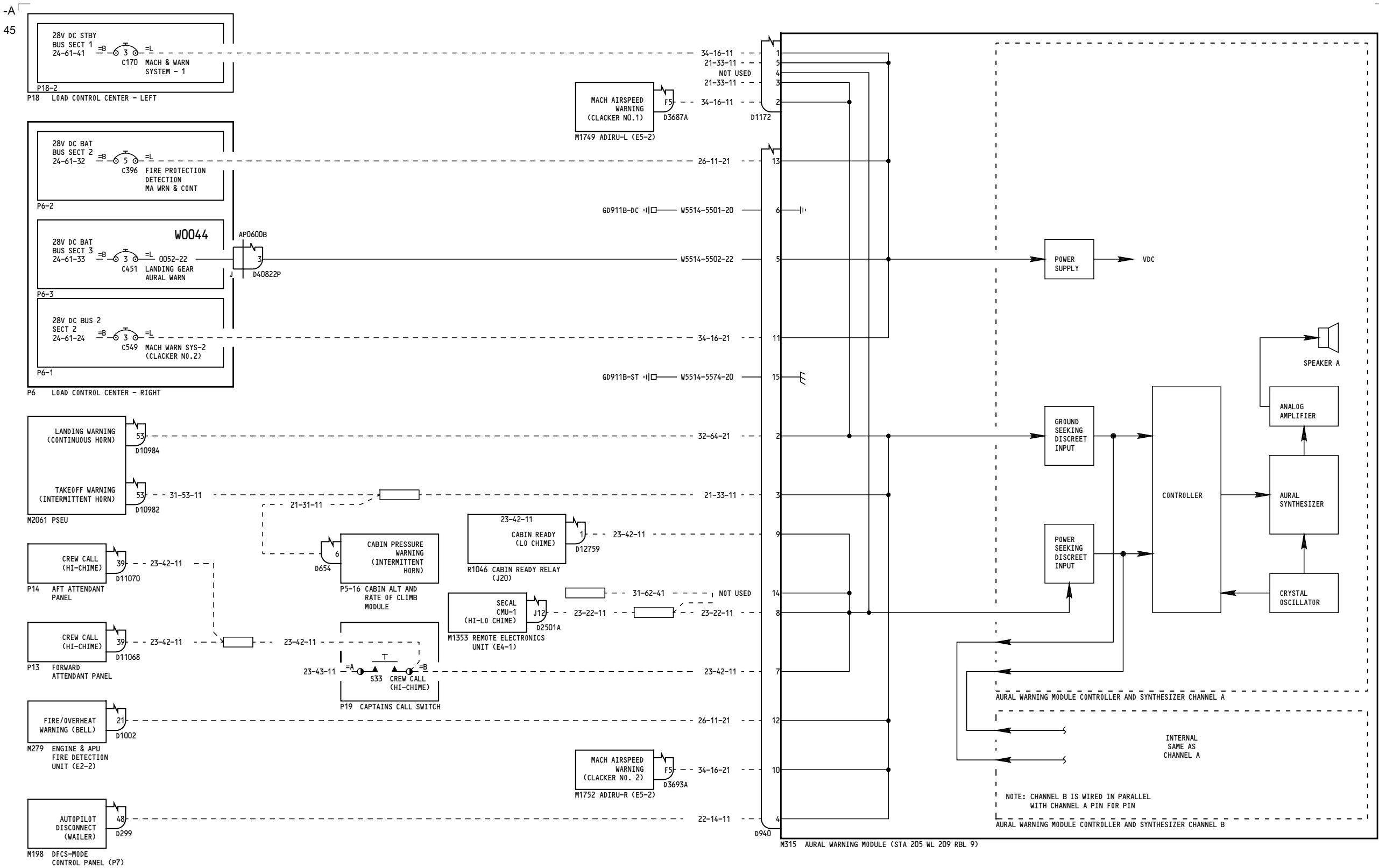
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YT106-YT120

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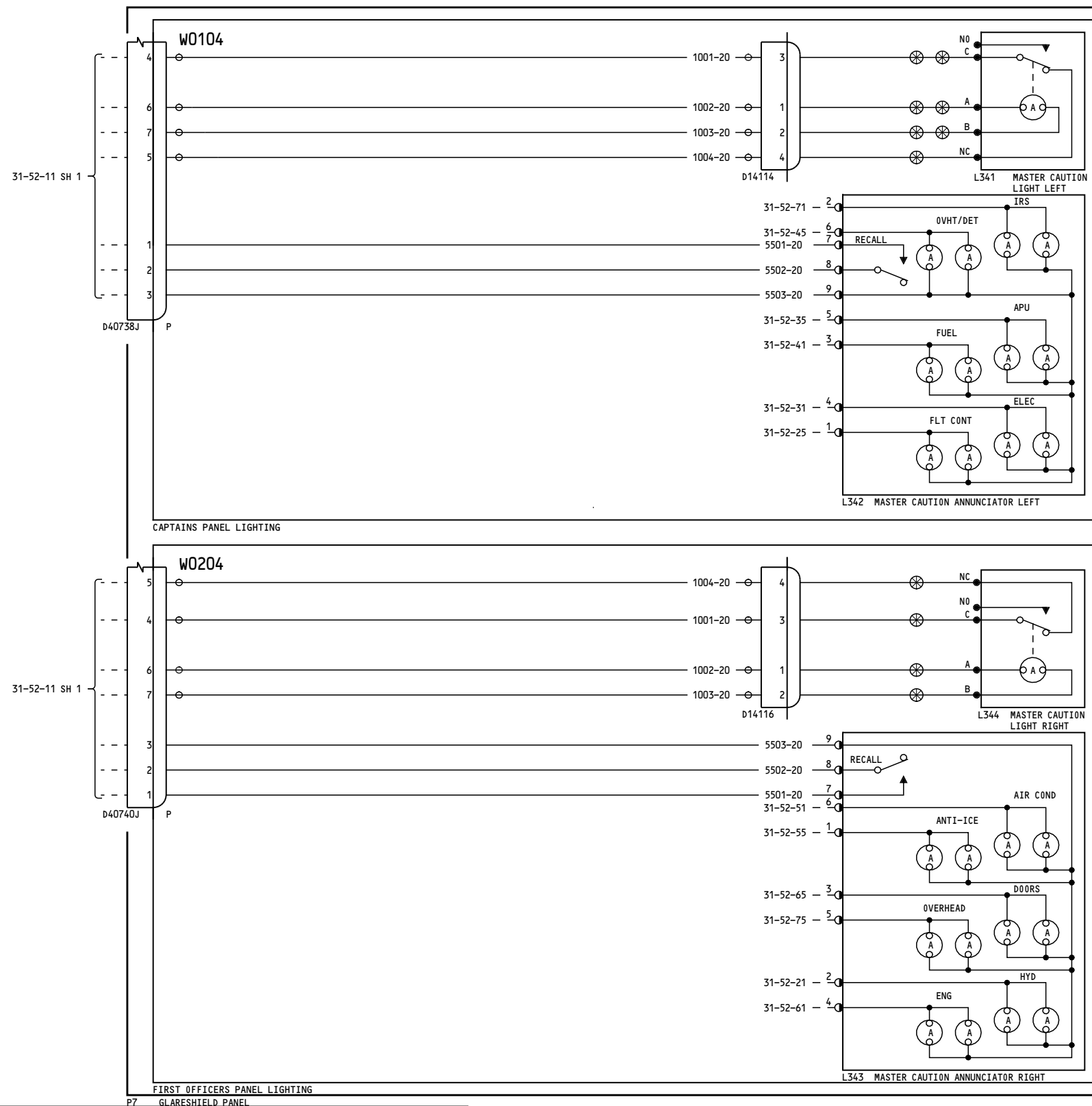
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MASTER CAUTION SYSTEM-
POWER & CONTROL

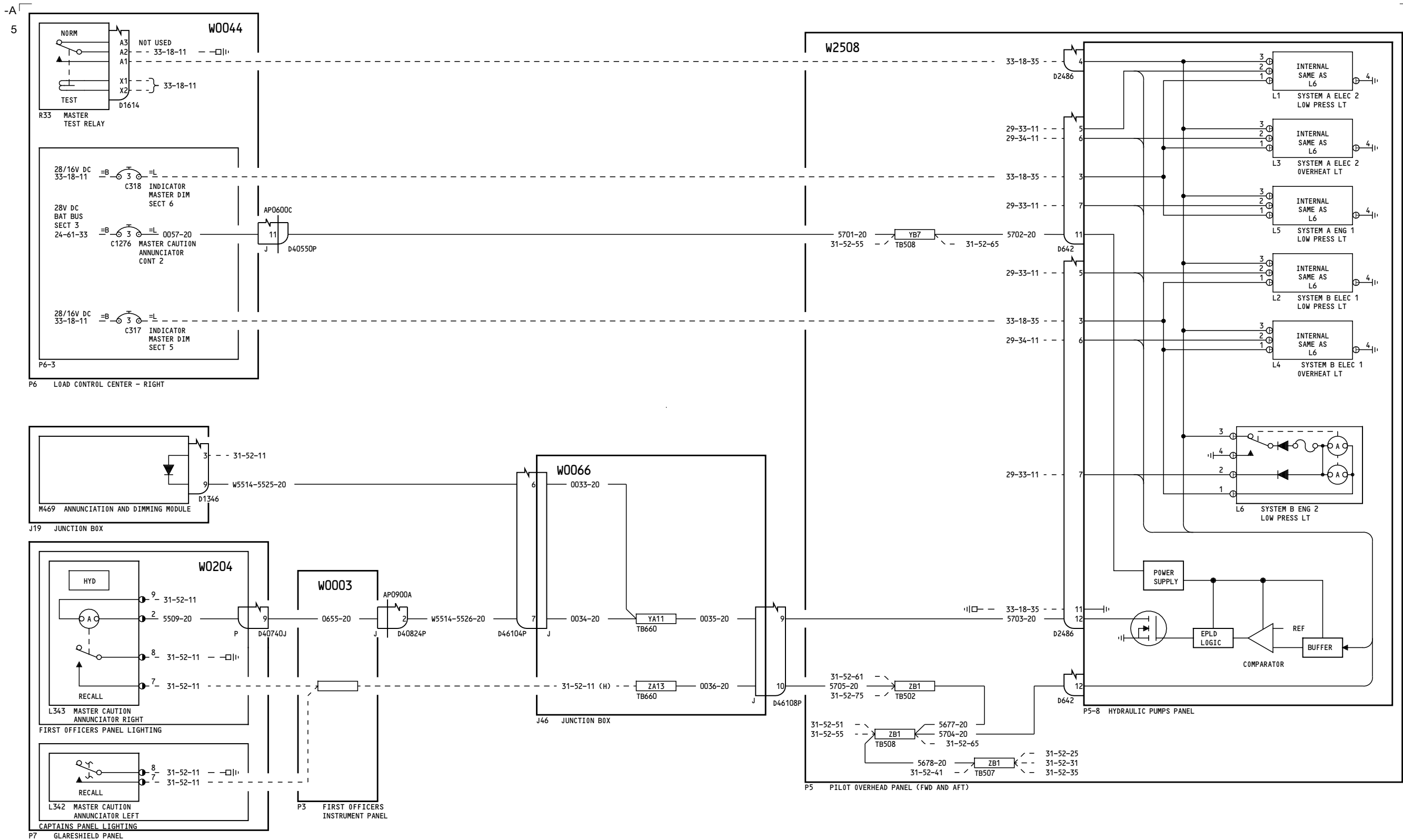
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**MASTER CAUTION SYSTEM -
HYDRAULIC CONTROL**

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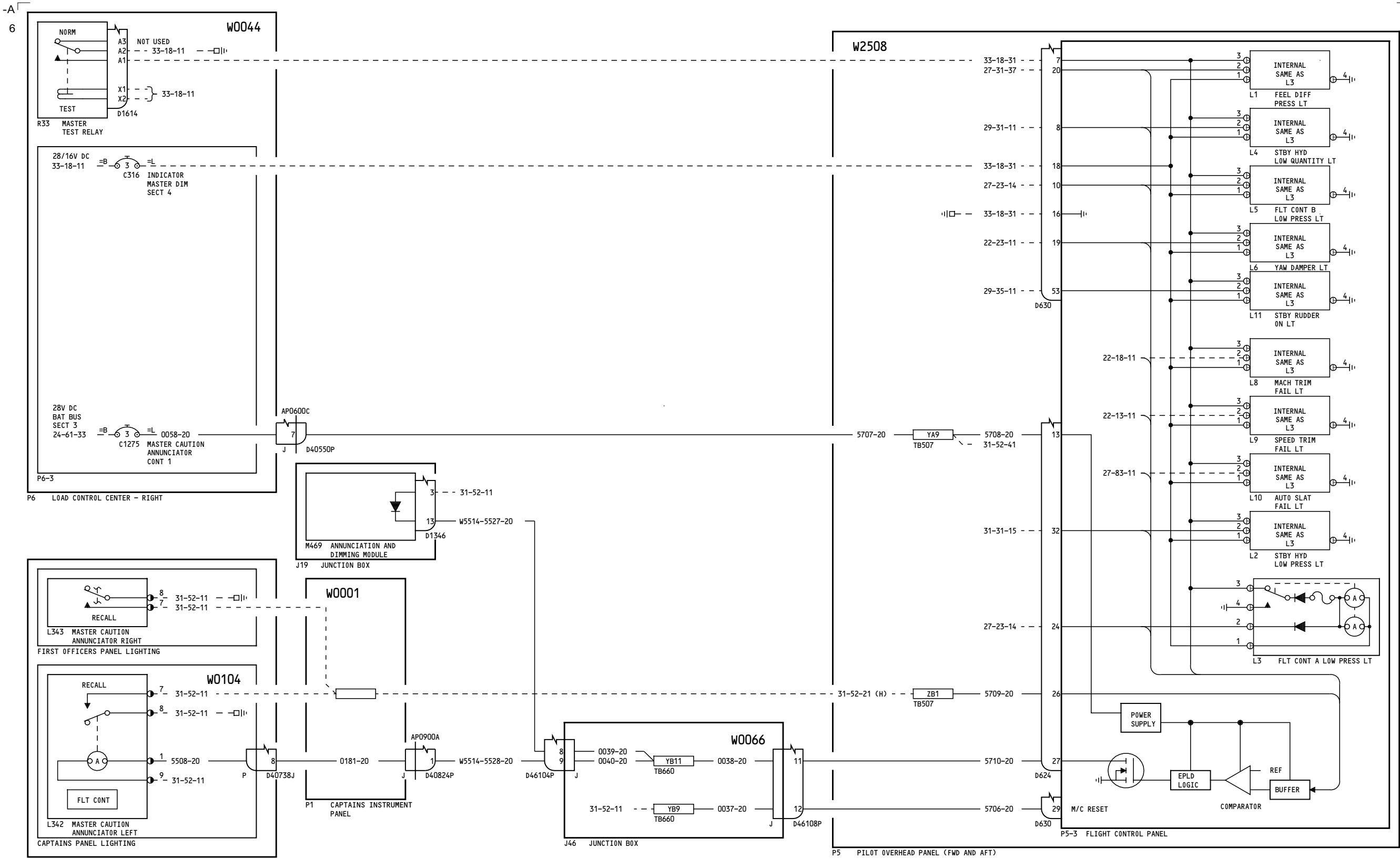
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MASTER CAUTION SYSTEM -
FLIGHT CONTROLS

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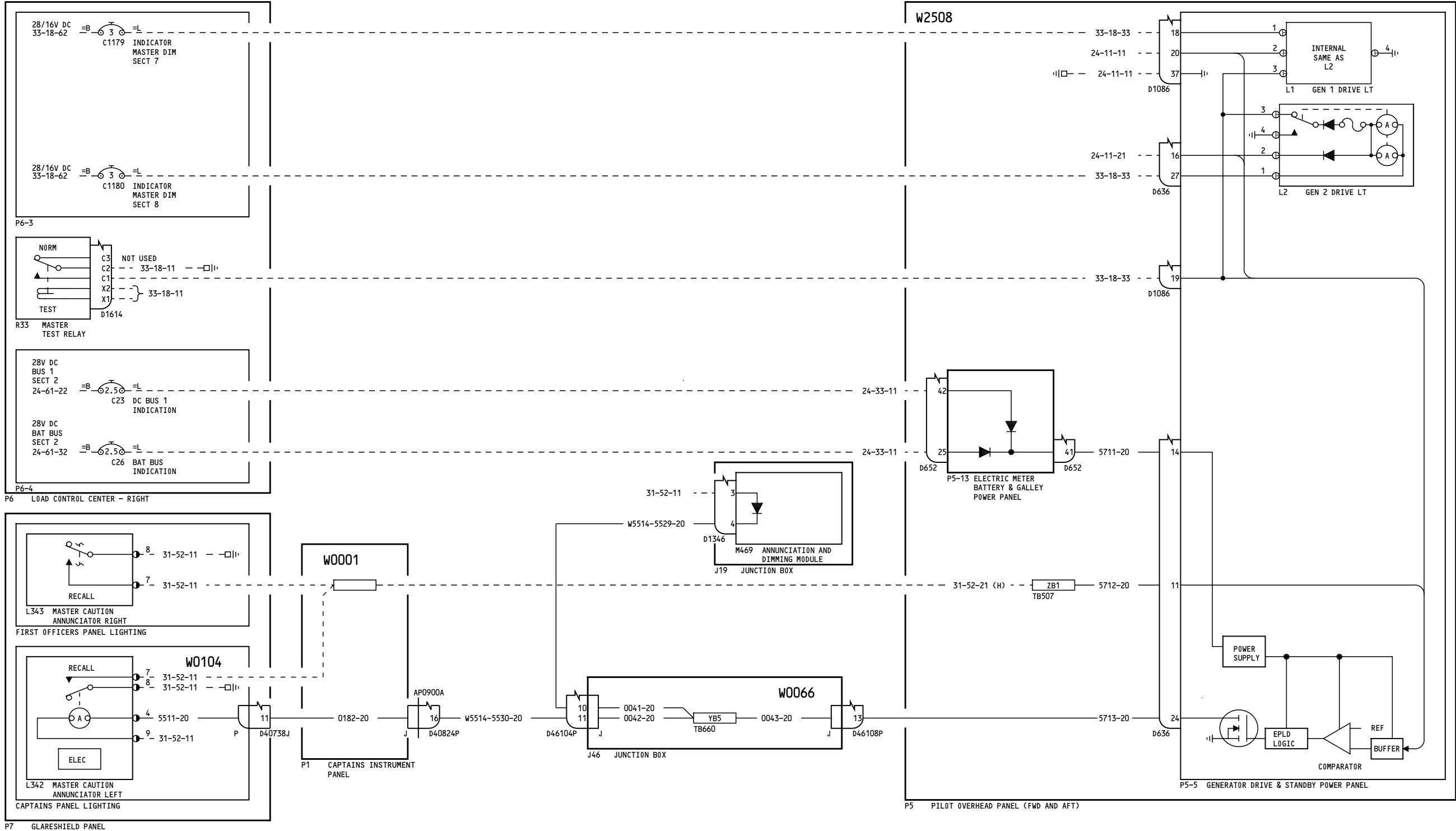
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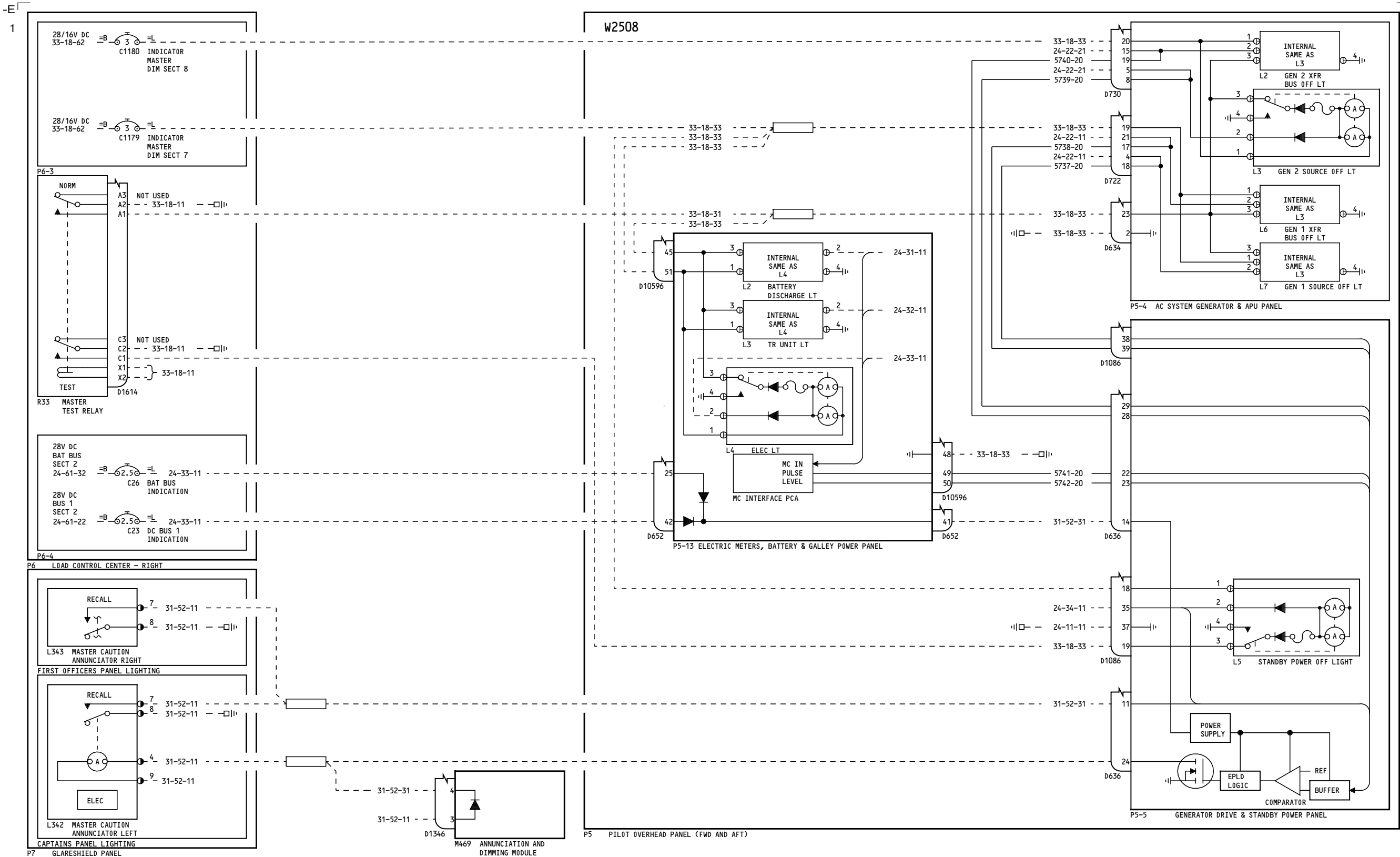
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MASTER CAUTION SYSTEM -
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POWER BUS

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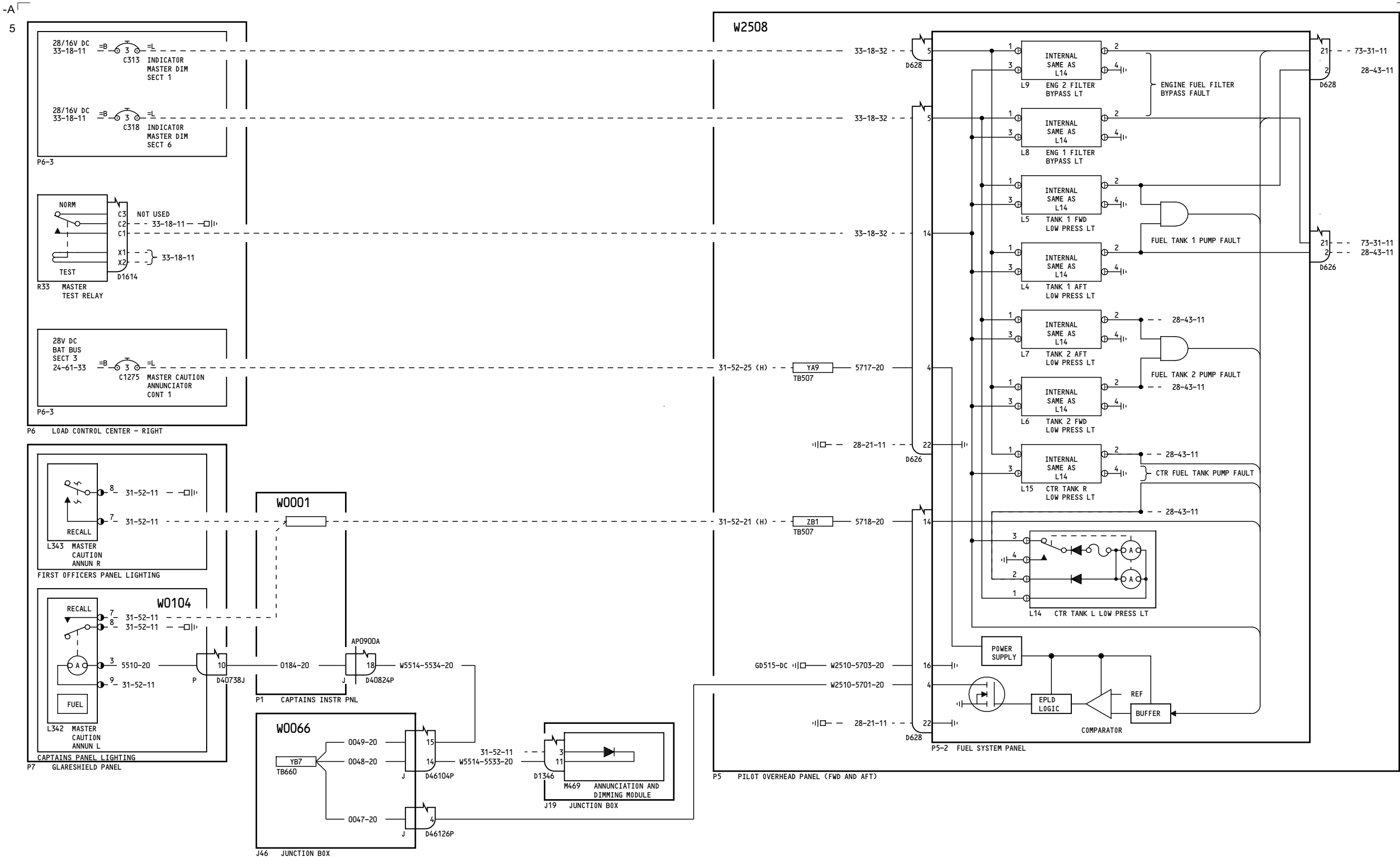
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MASTER CAUTION SYSTEM - FUEL CONTROL

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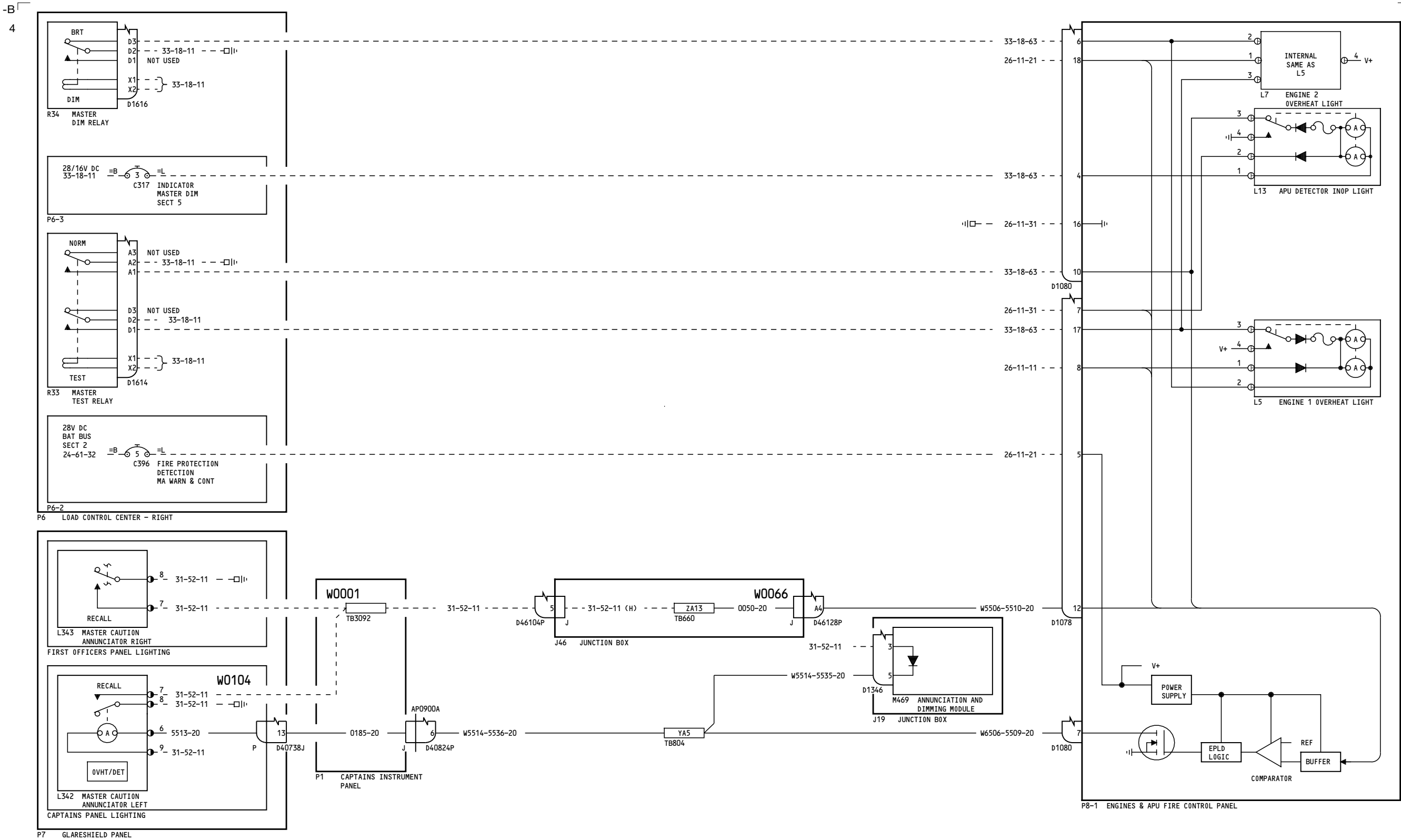
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**MASTER CAUTION SYSTEM -
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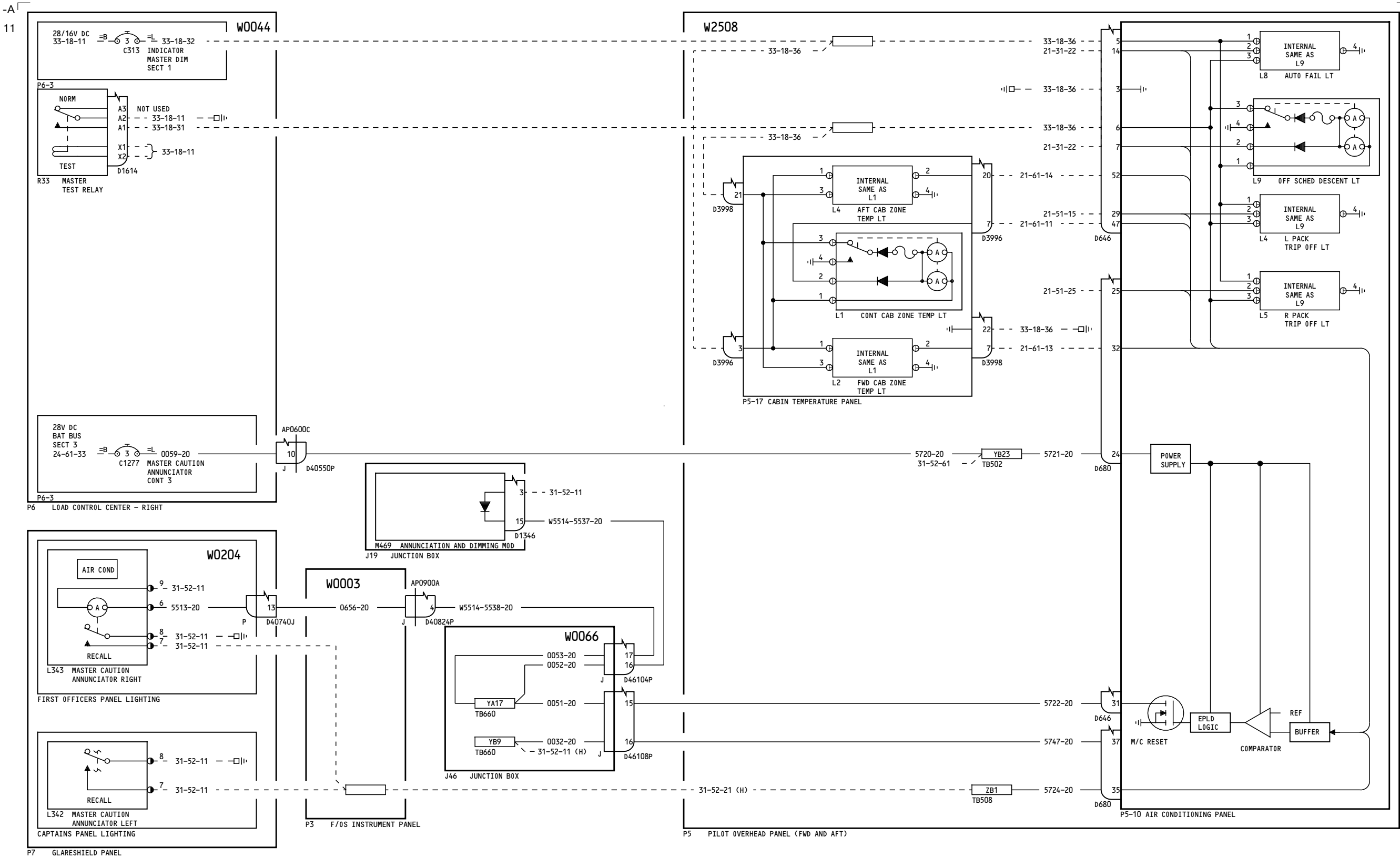
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MASTER CAUTION SYSTEM -
AIR CONDING CONTROL,
PACK & TEMP

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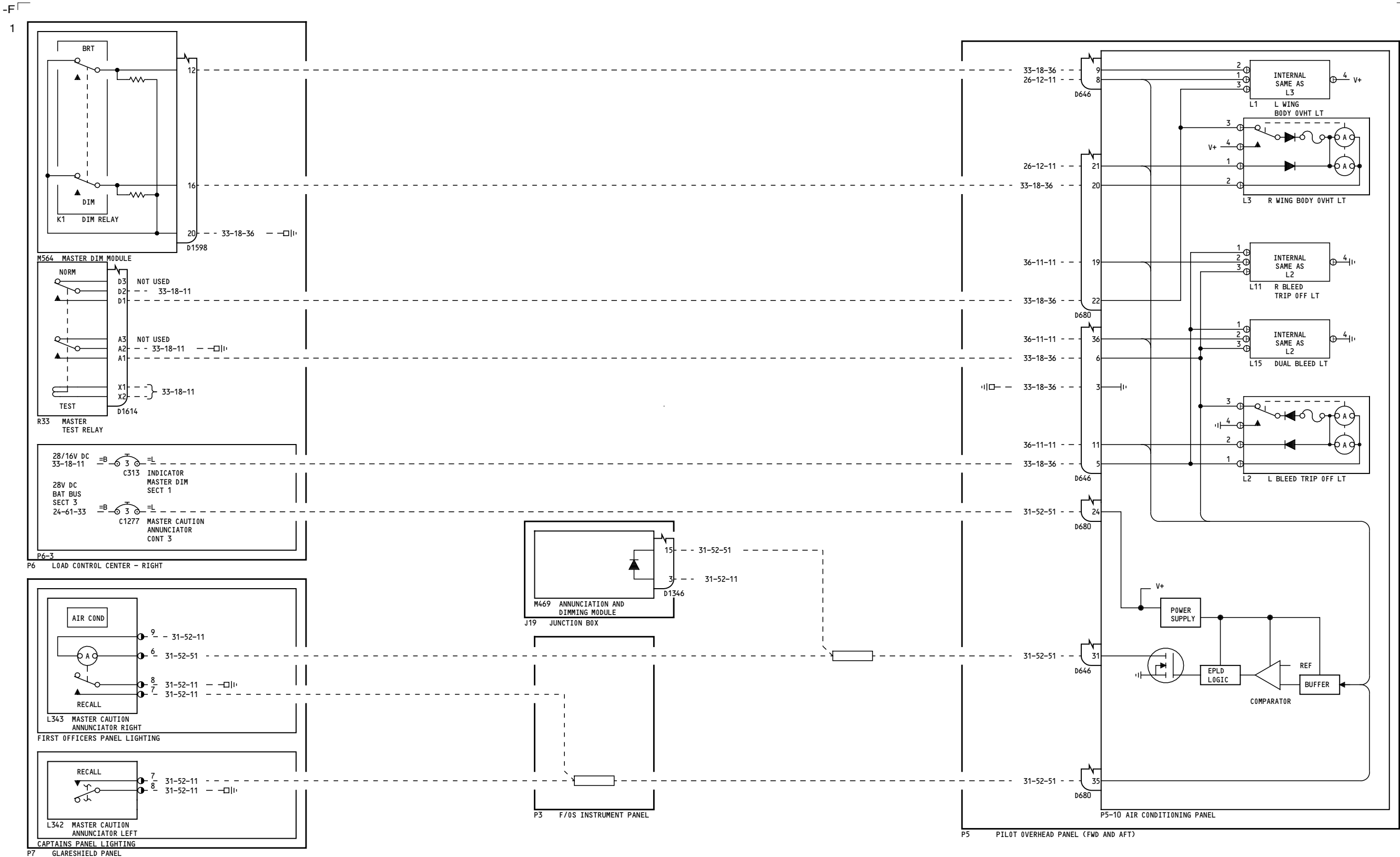
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**MASTER CAUTION SYSTEM -
AIR CONDITIONING CONTROL,
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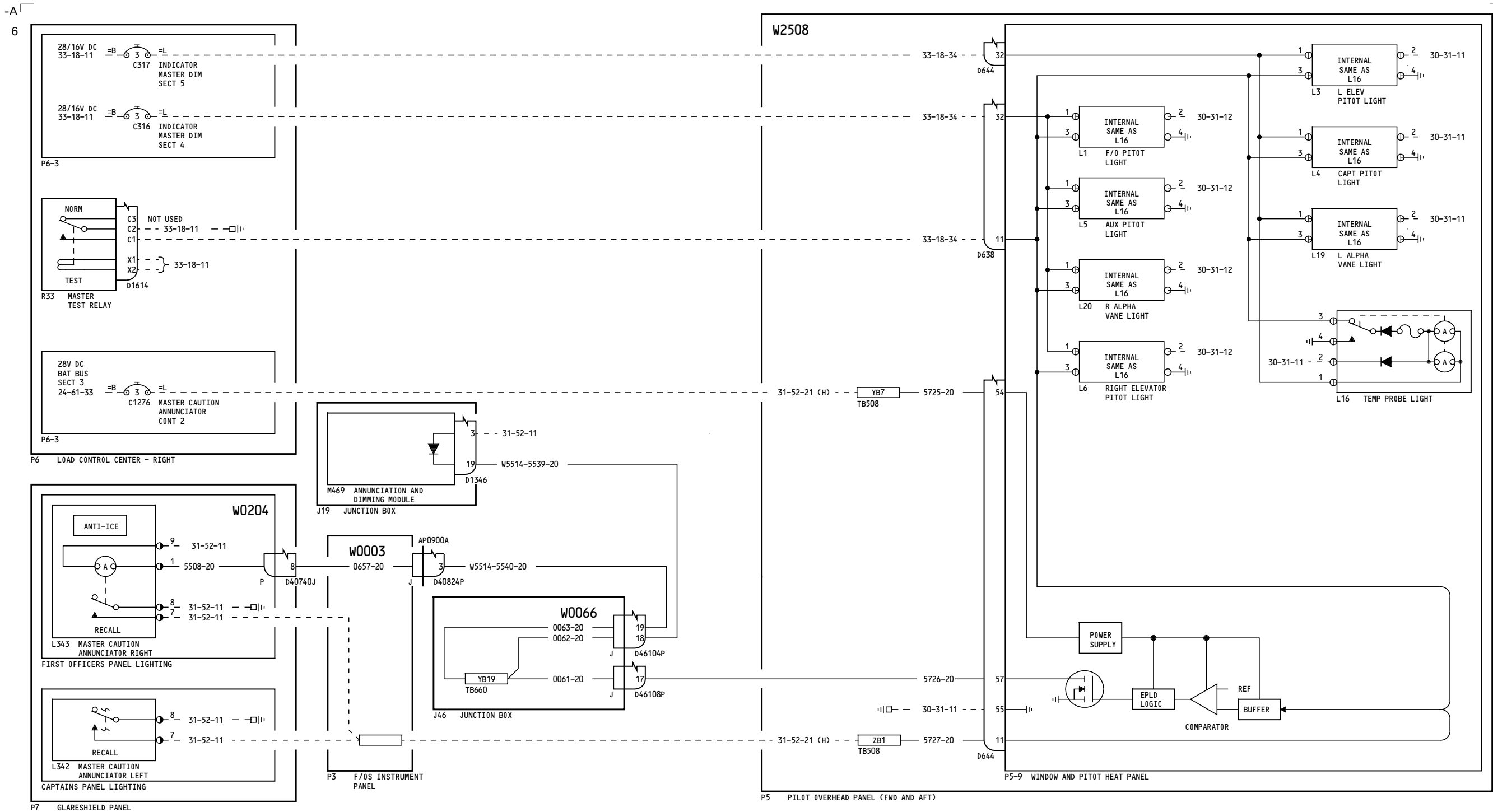
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ANTI-ICE CONTROL,
PITOT HEAT

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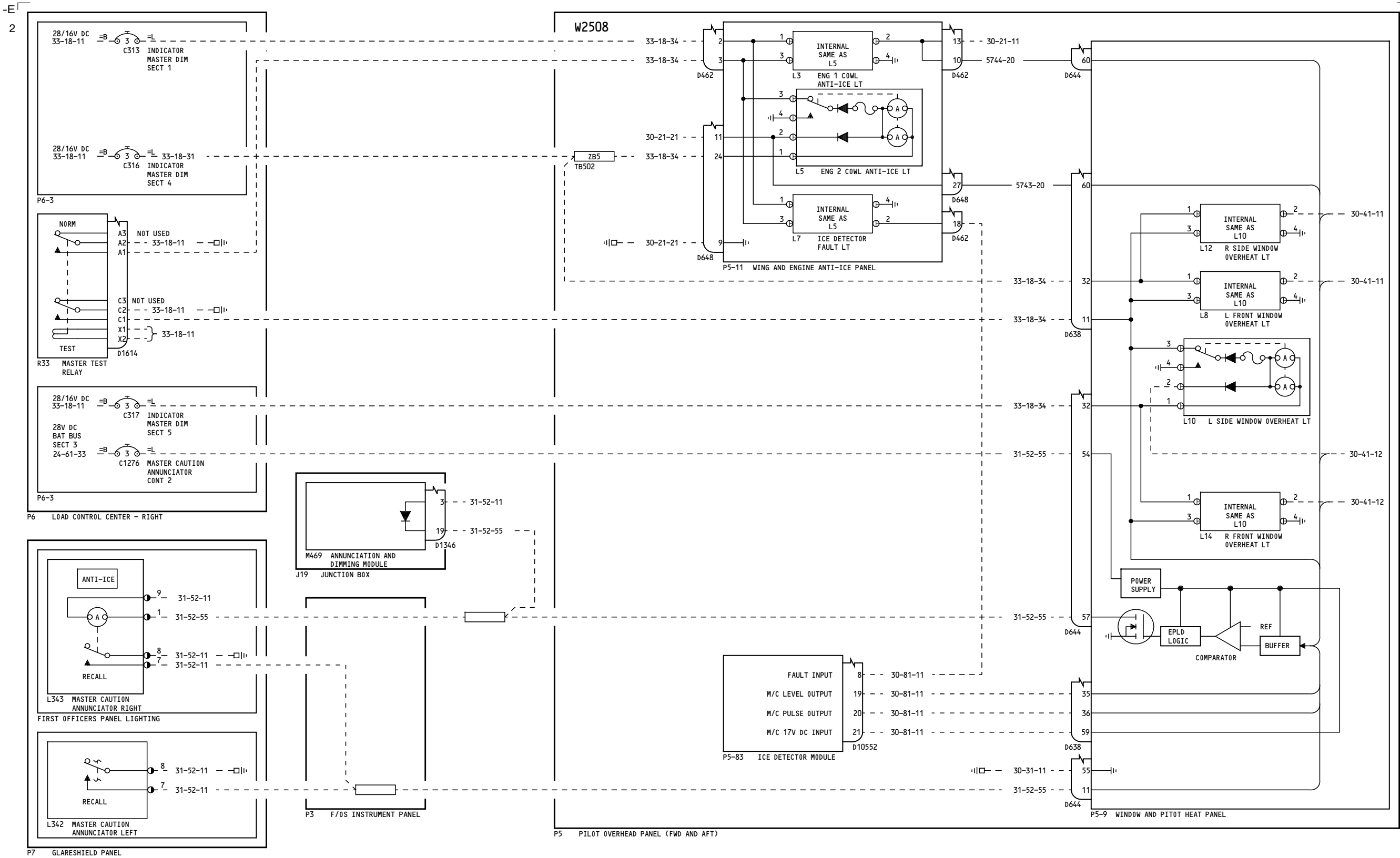
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WINDOW/COWL HEAT

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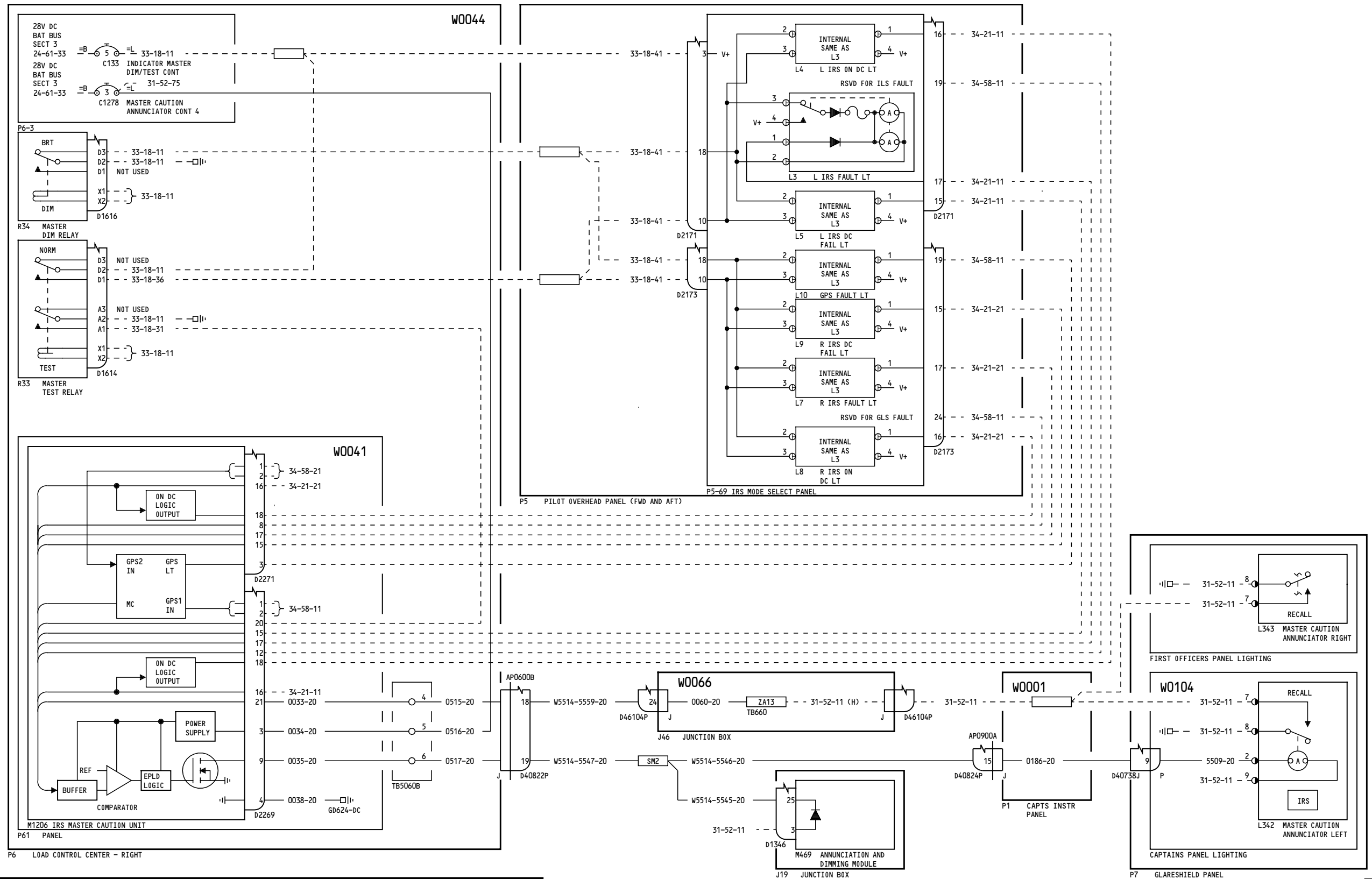
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YT101-YT119, YT126-YT129

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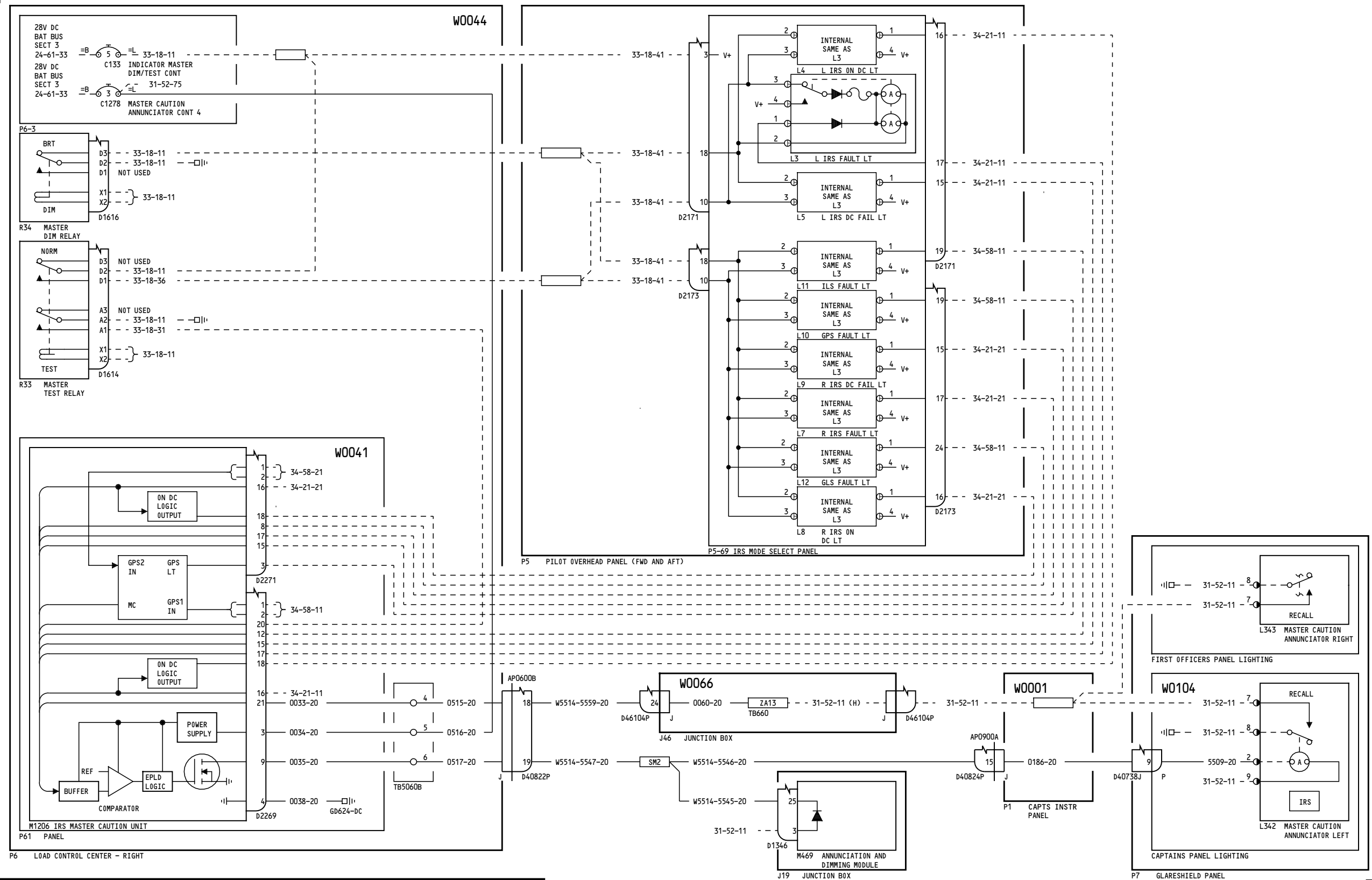
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YT120, YT130-YT133

**MASTER CAUTION SYSTEM -
IRS CONTROL**

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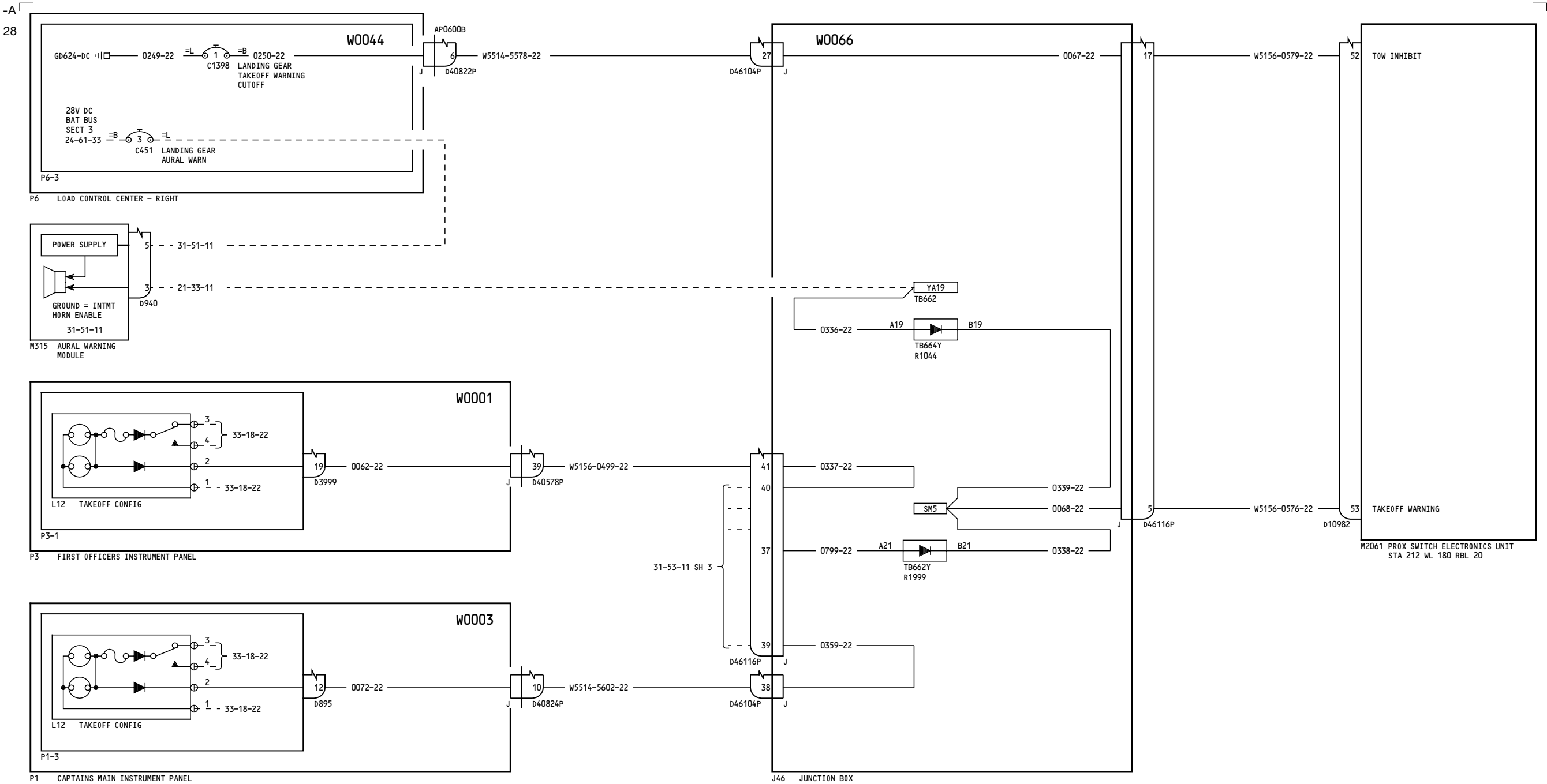
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AURAL WARNING -
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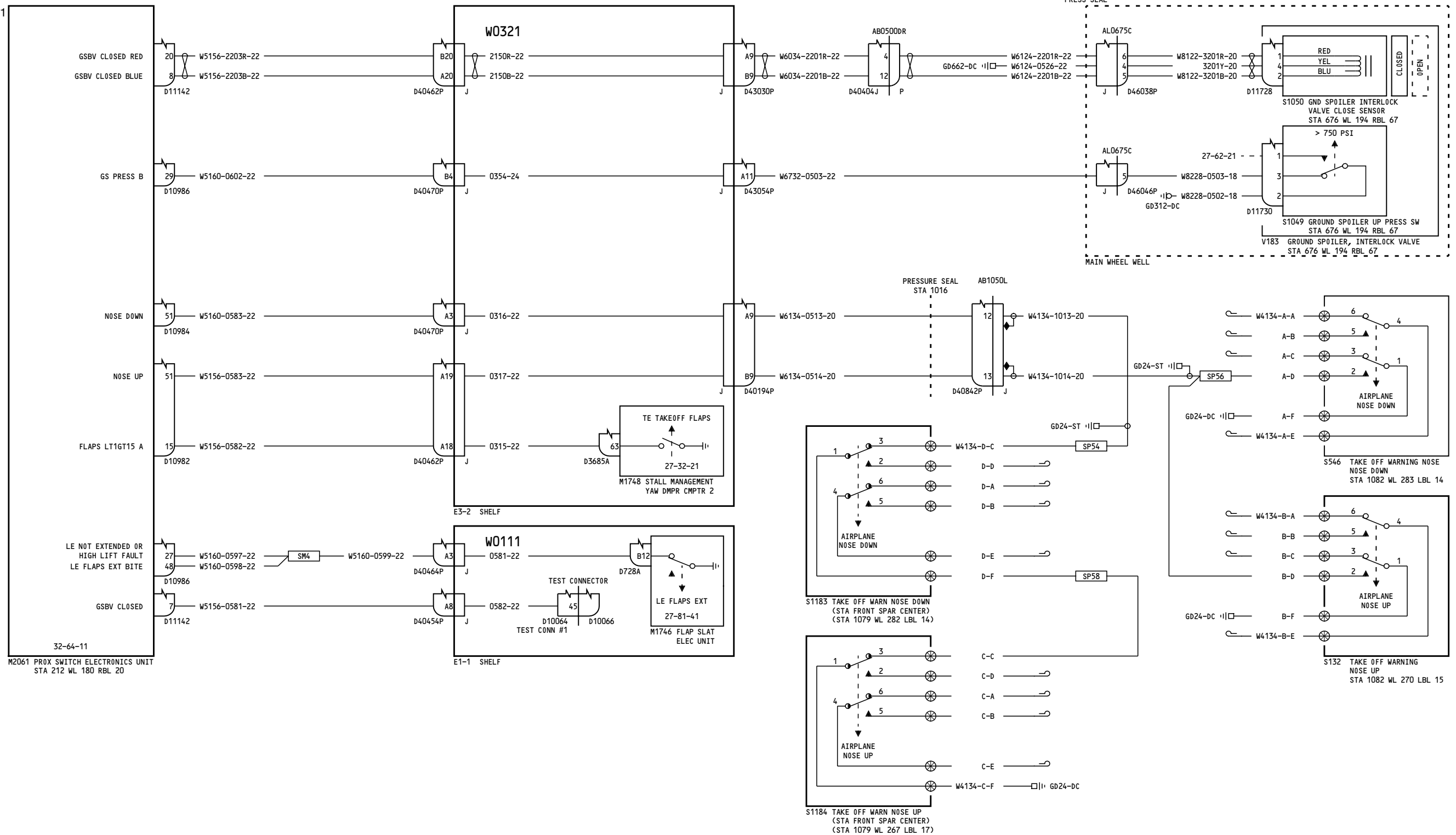
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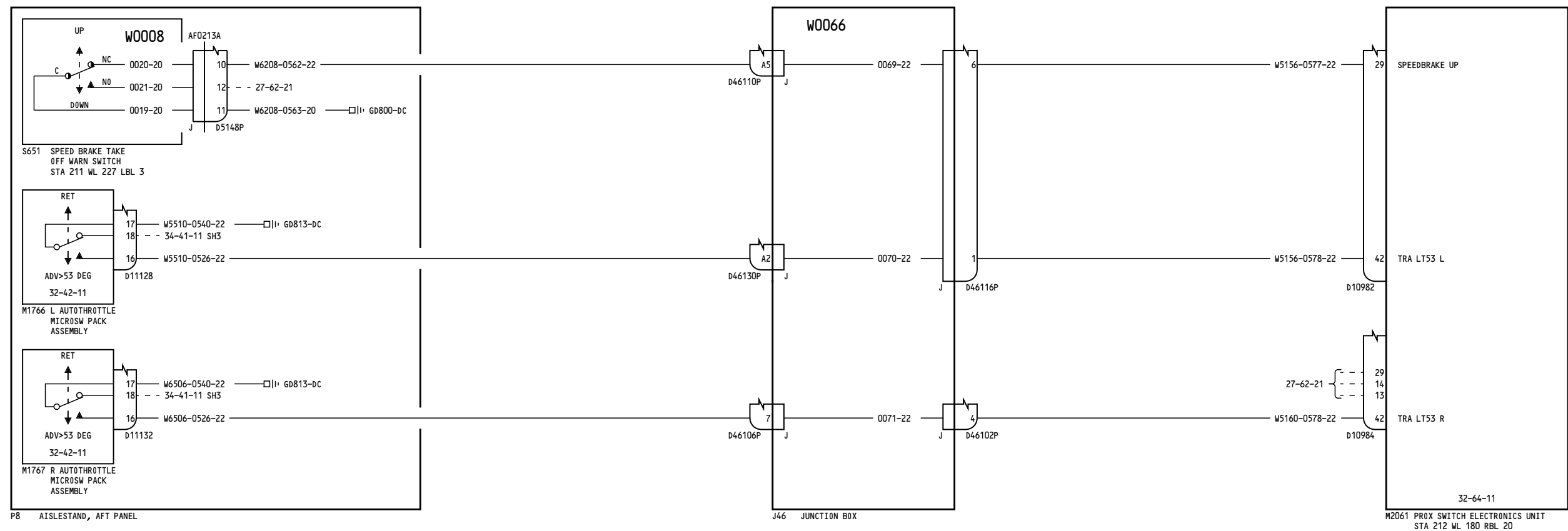
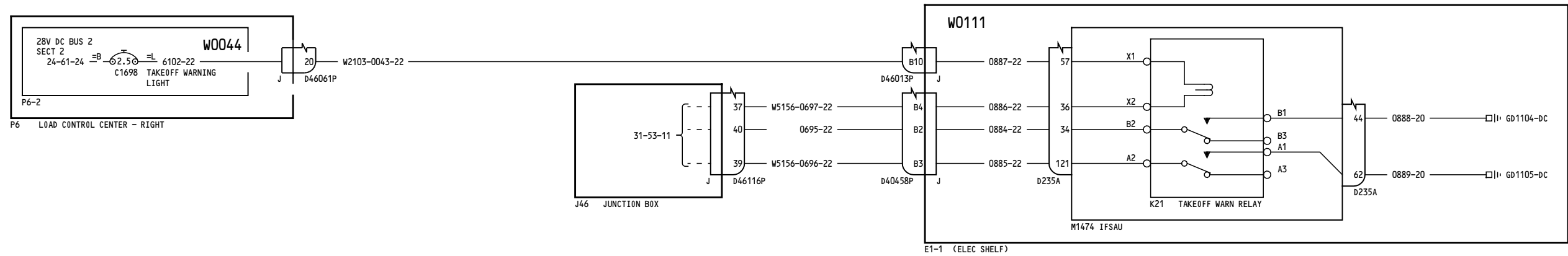
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**AURAL WARNING -
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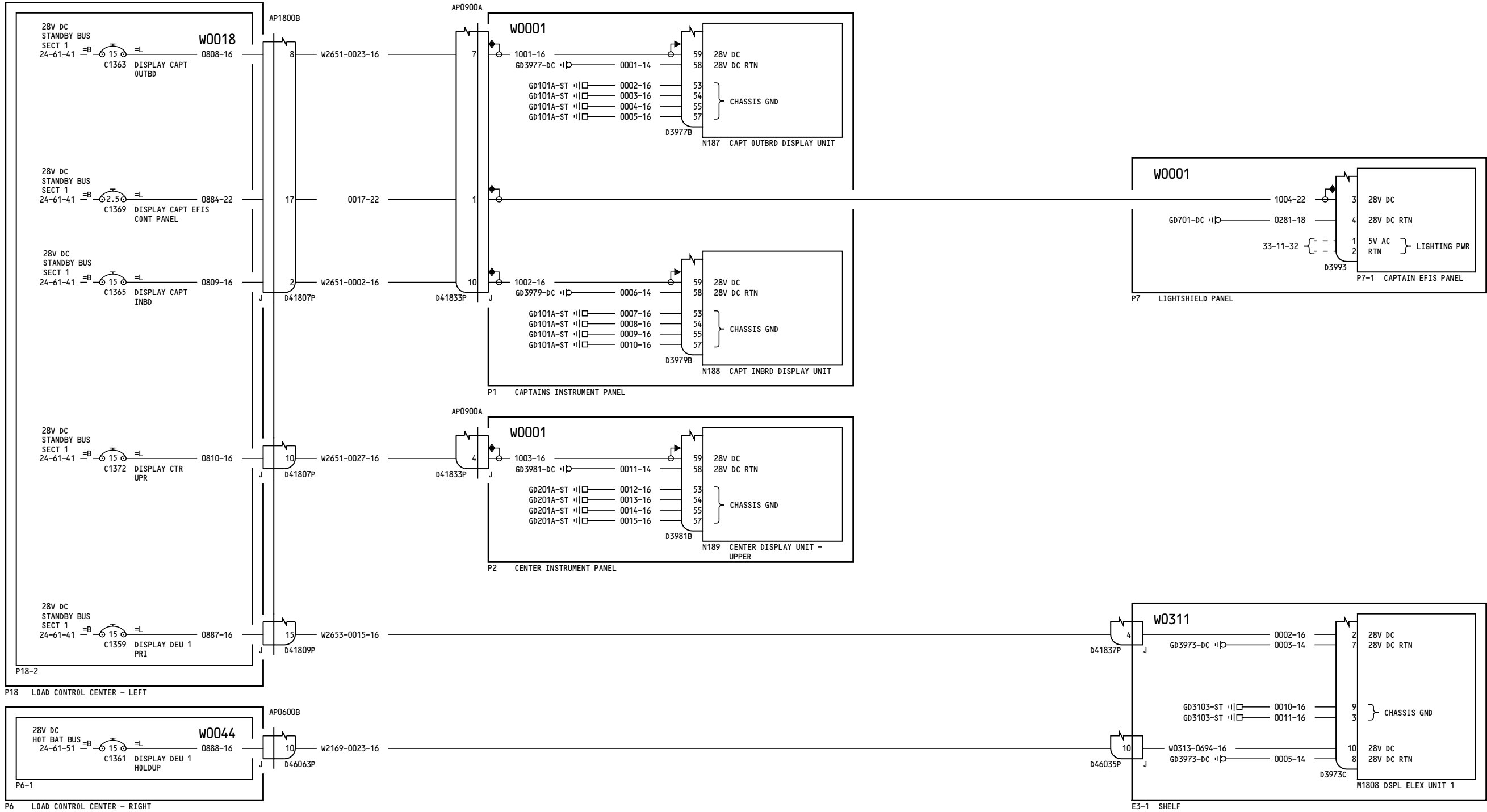
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CDS - POWER DISTRIBUTION
AND INSTRUMENT LIGHTING
CAPTAINS

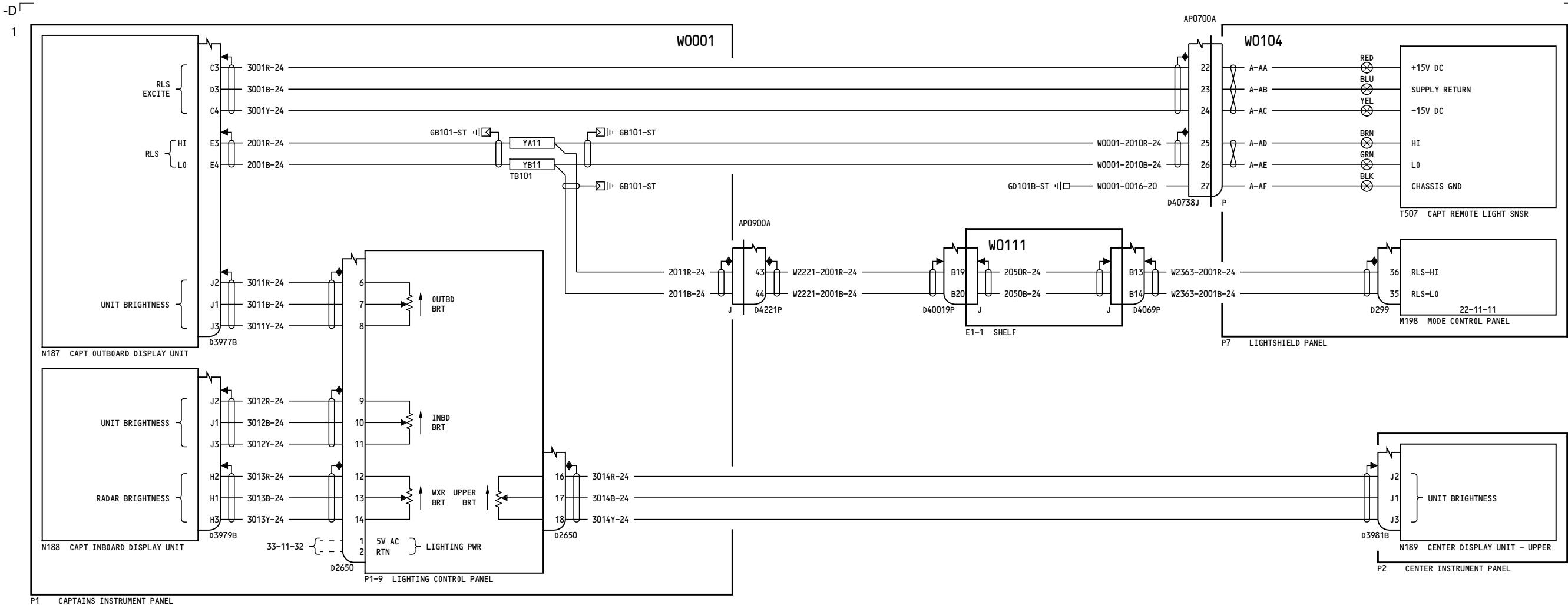
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CDS - POWER DISTRIBUTION
AND INSTRUMENT LIGHTING
CAPTAINS

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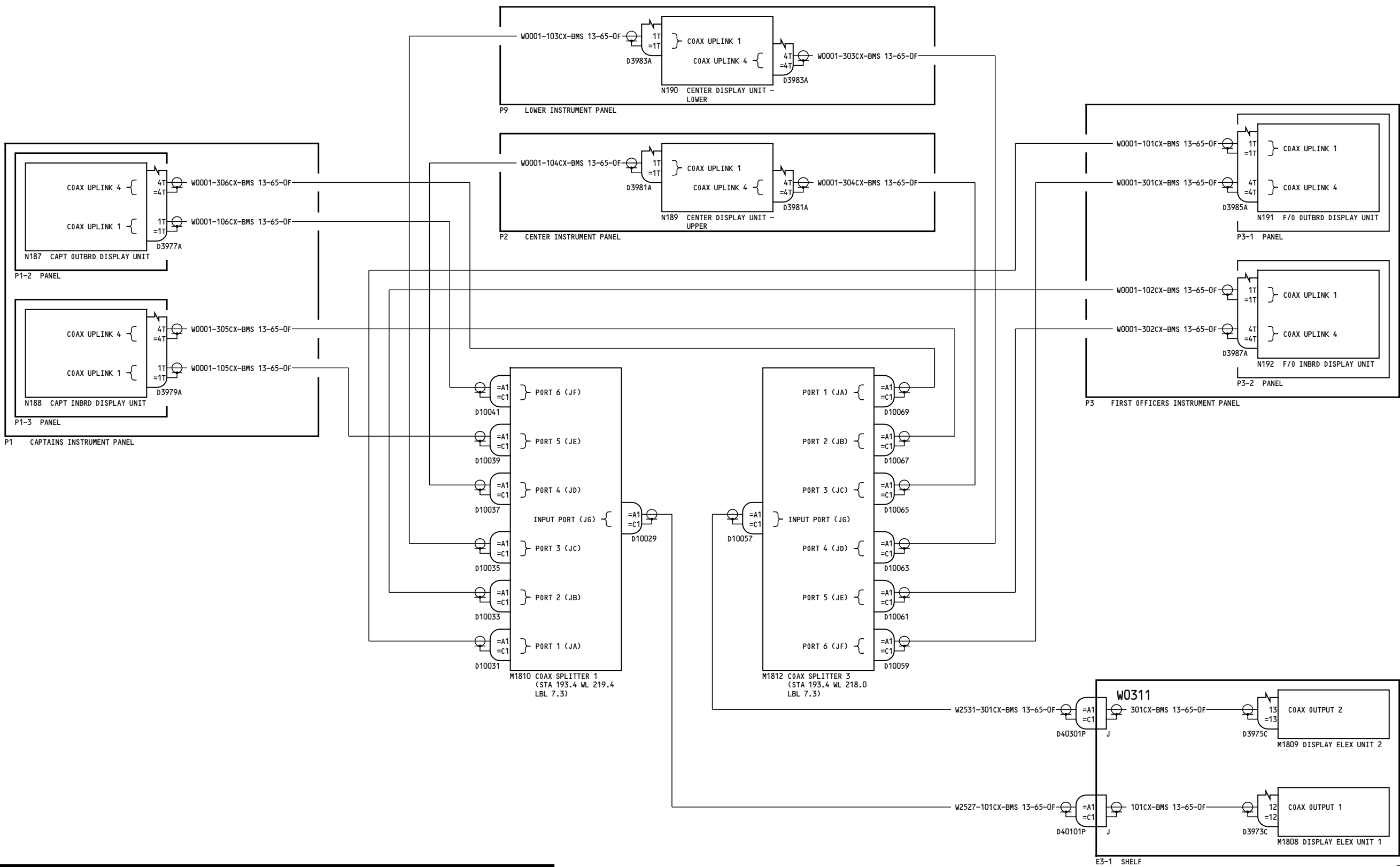
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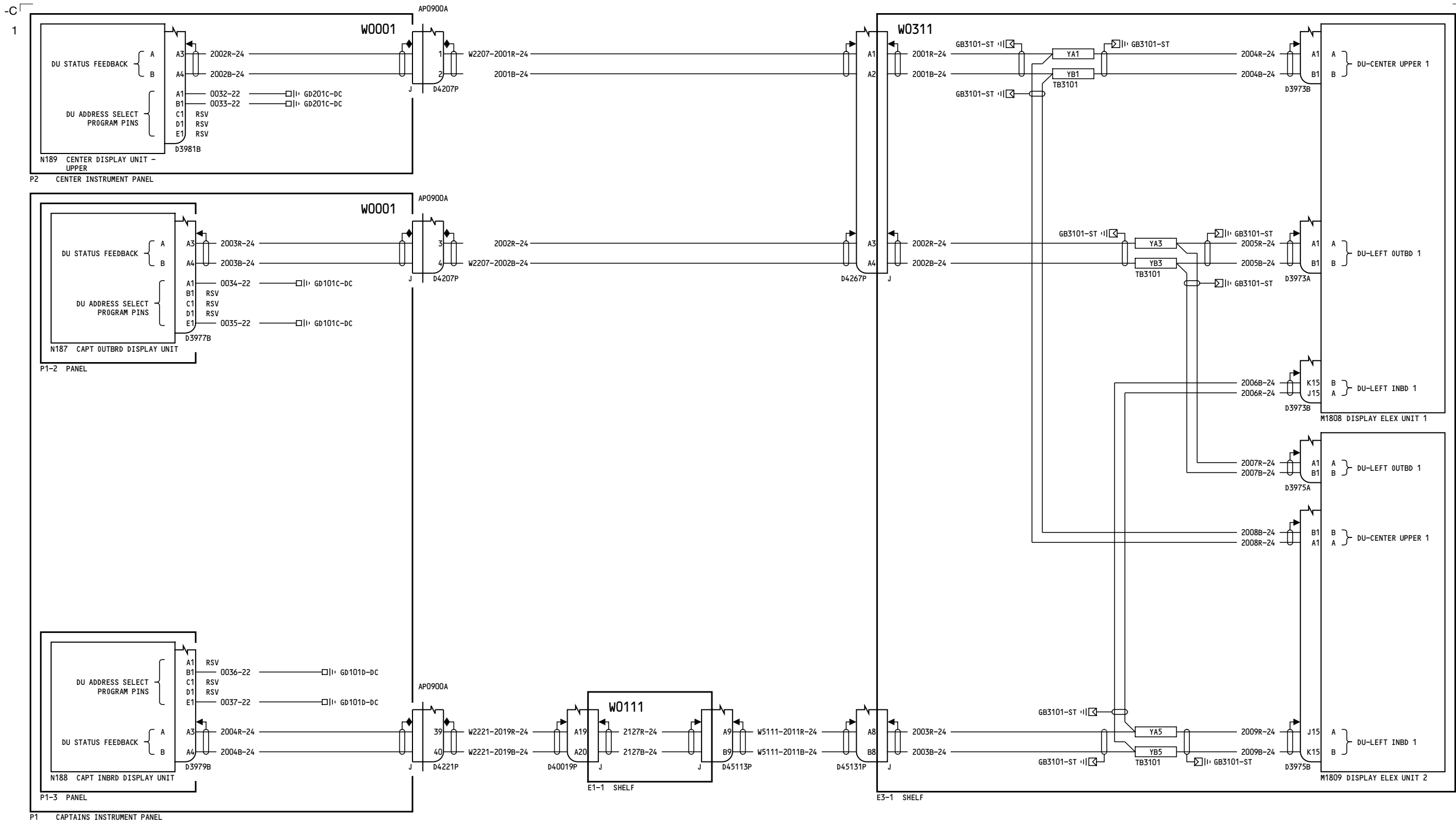
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CDS - VIDEO COAX
SPLITTERS 1 AND 3
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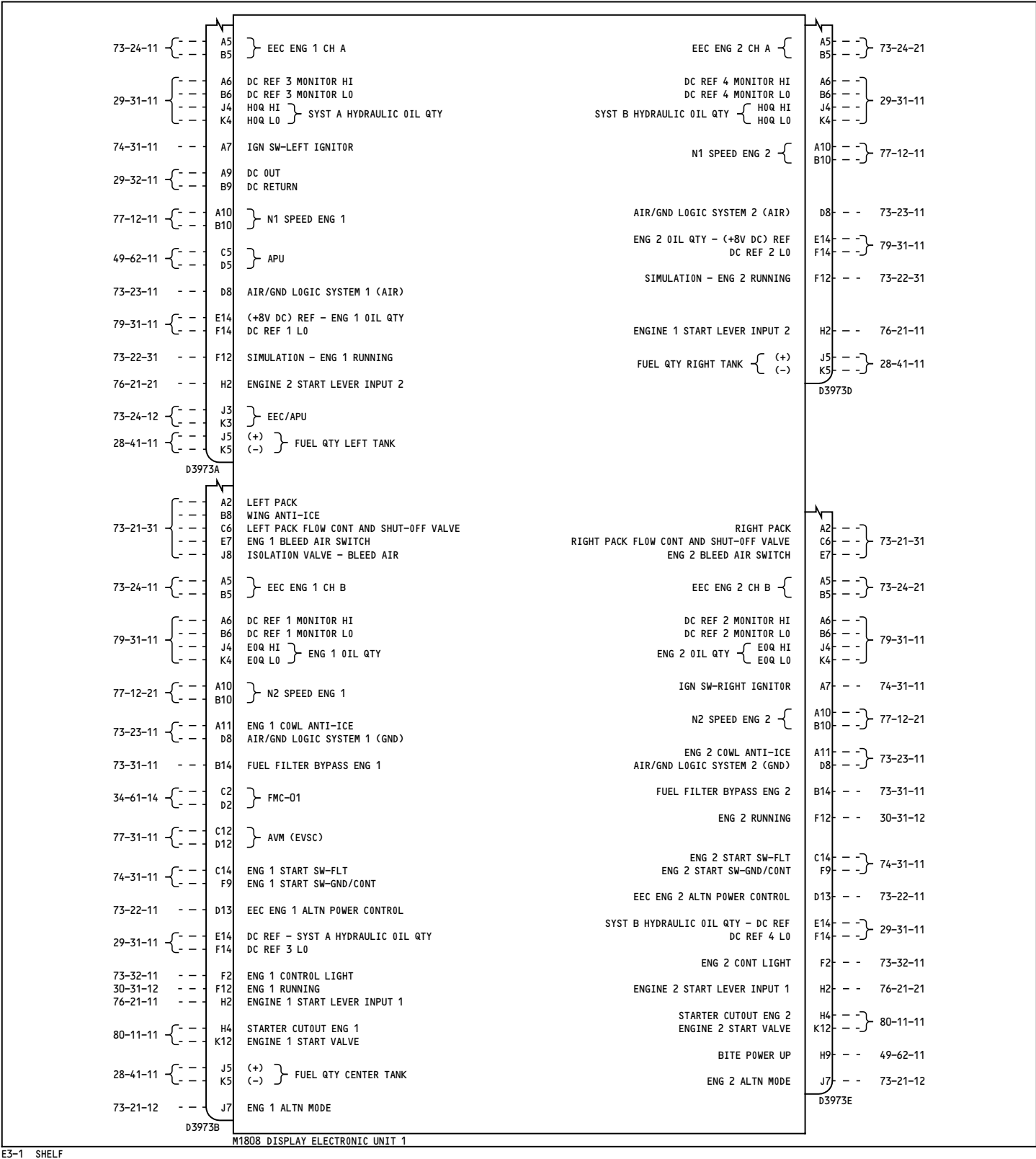
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CDS - DEU 1 ENGINE
HYDRAULIC, APU AND FUEL
INTERFACES

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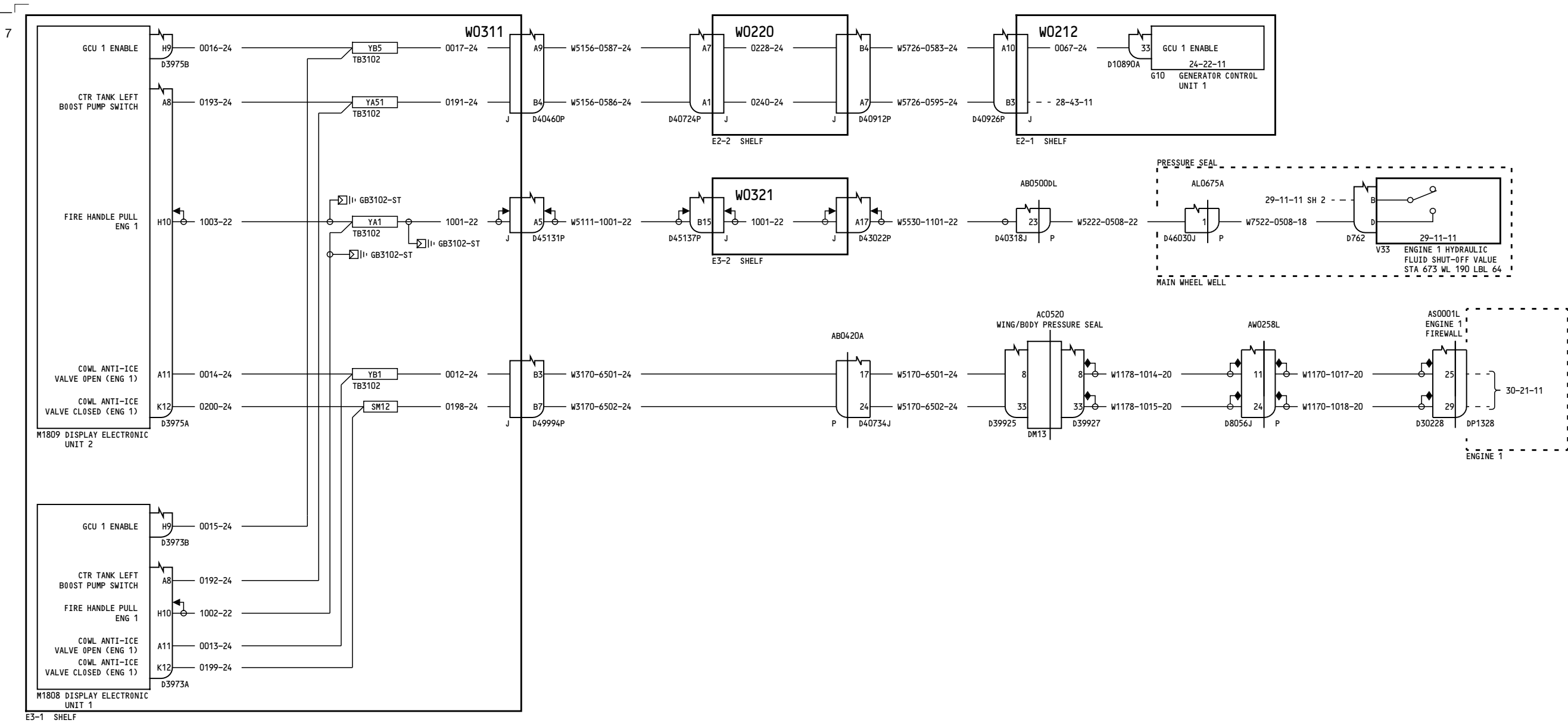
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CDS - DEU 1 ENGINE
HYDRAULIC, APU AND FUEL
INTERFACES

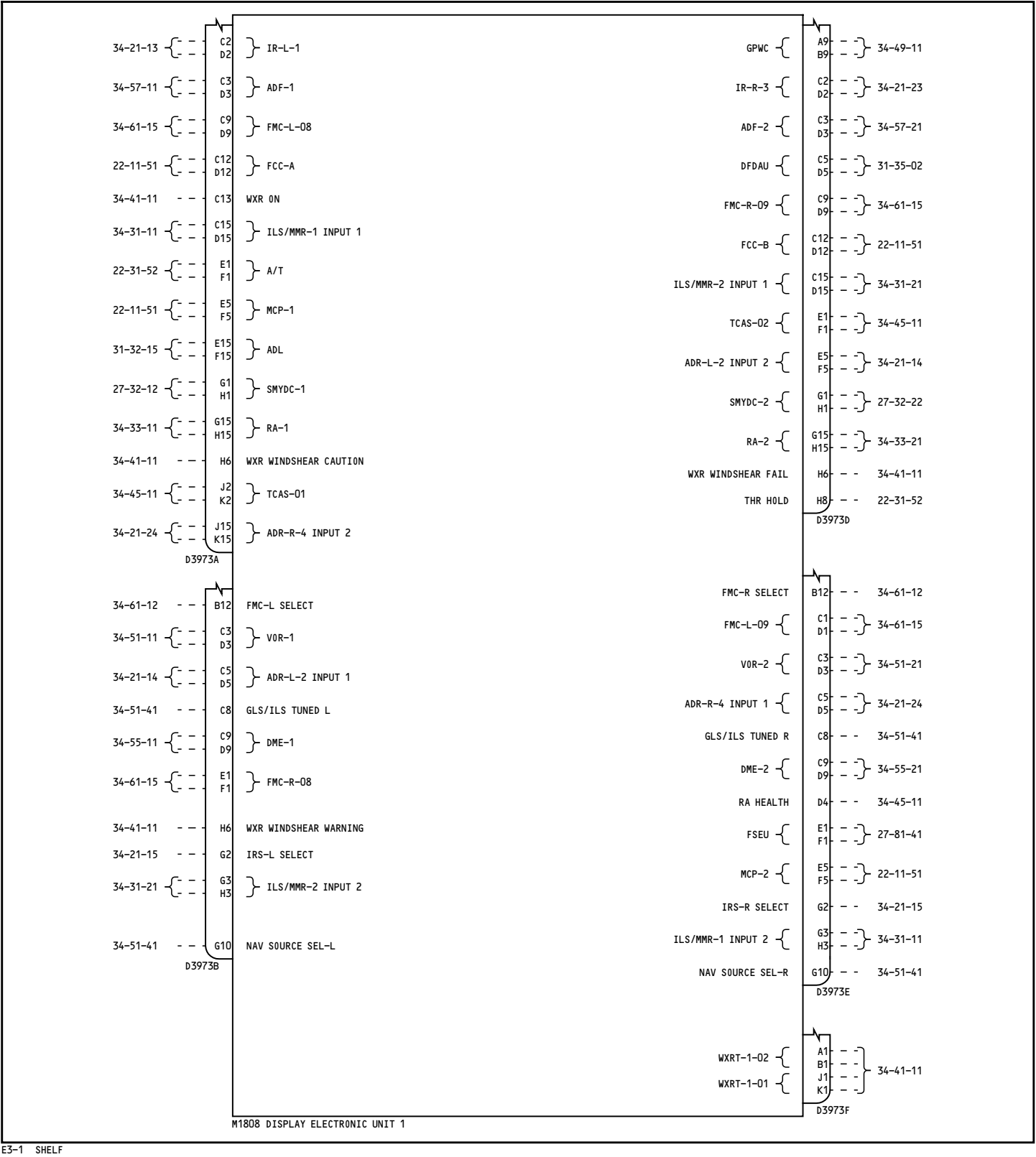
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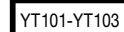
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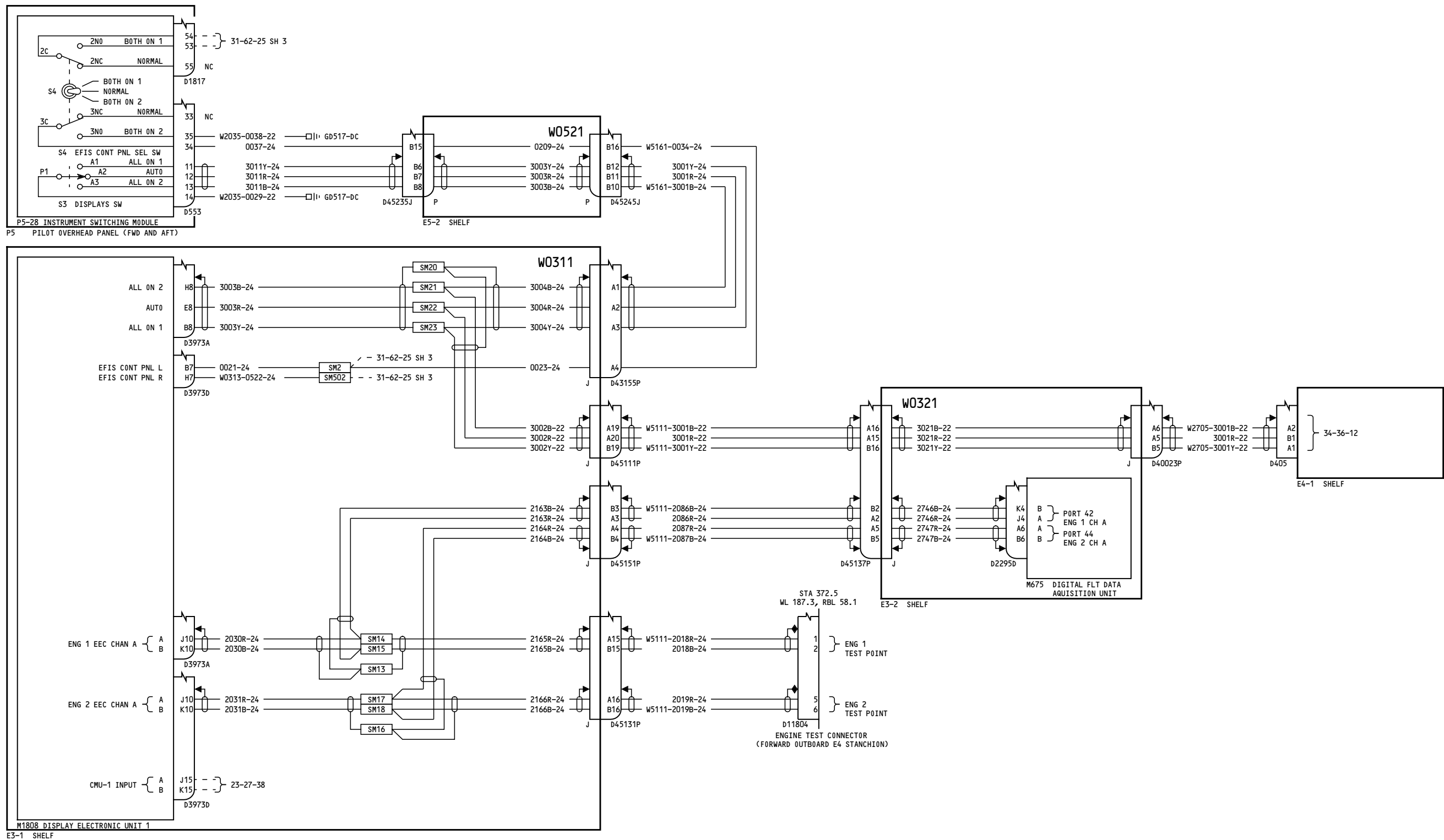
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YT101-YT103

CDS - DEU 1 AVIONICS INTERFACES

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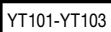
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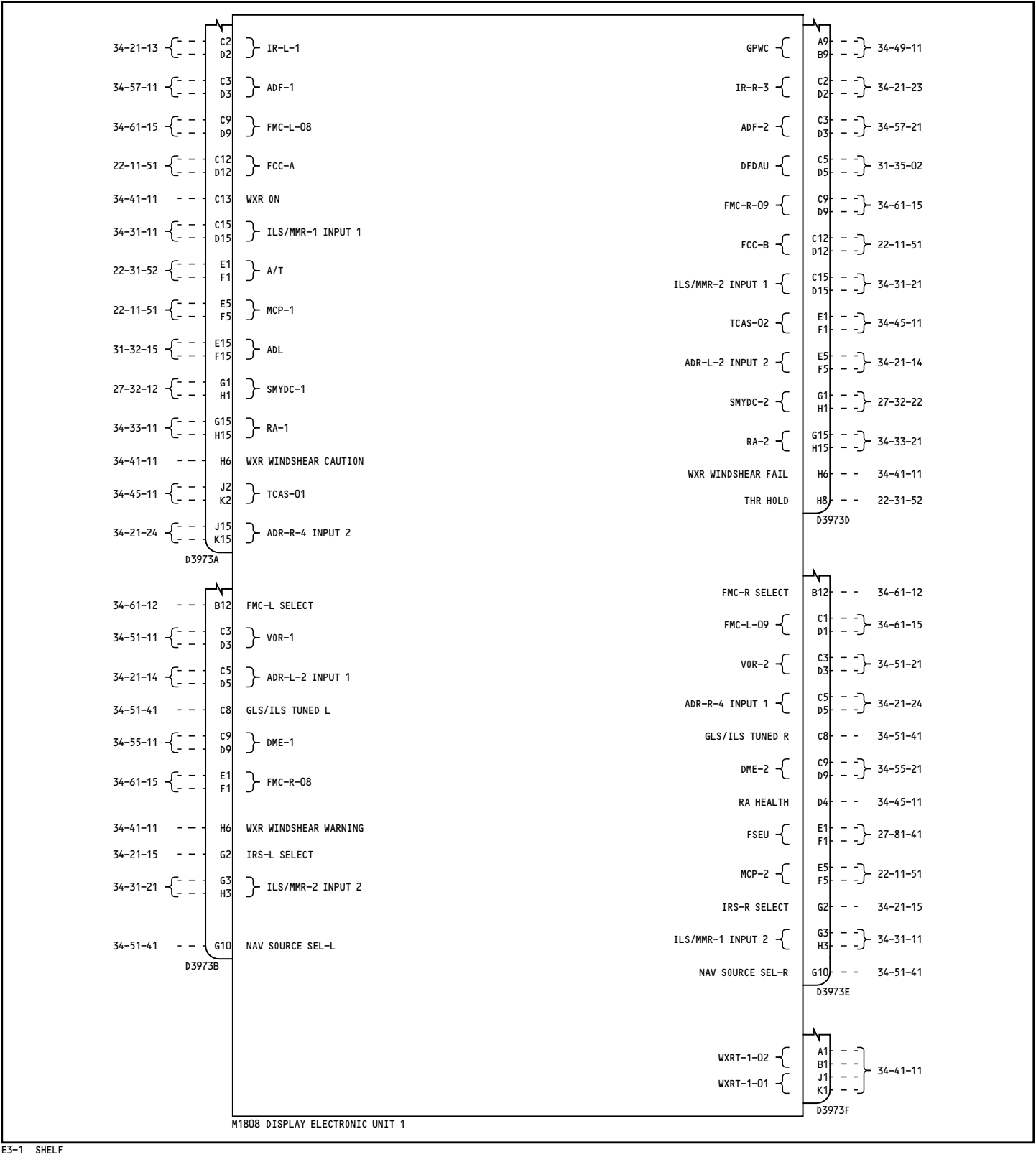
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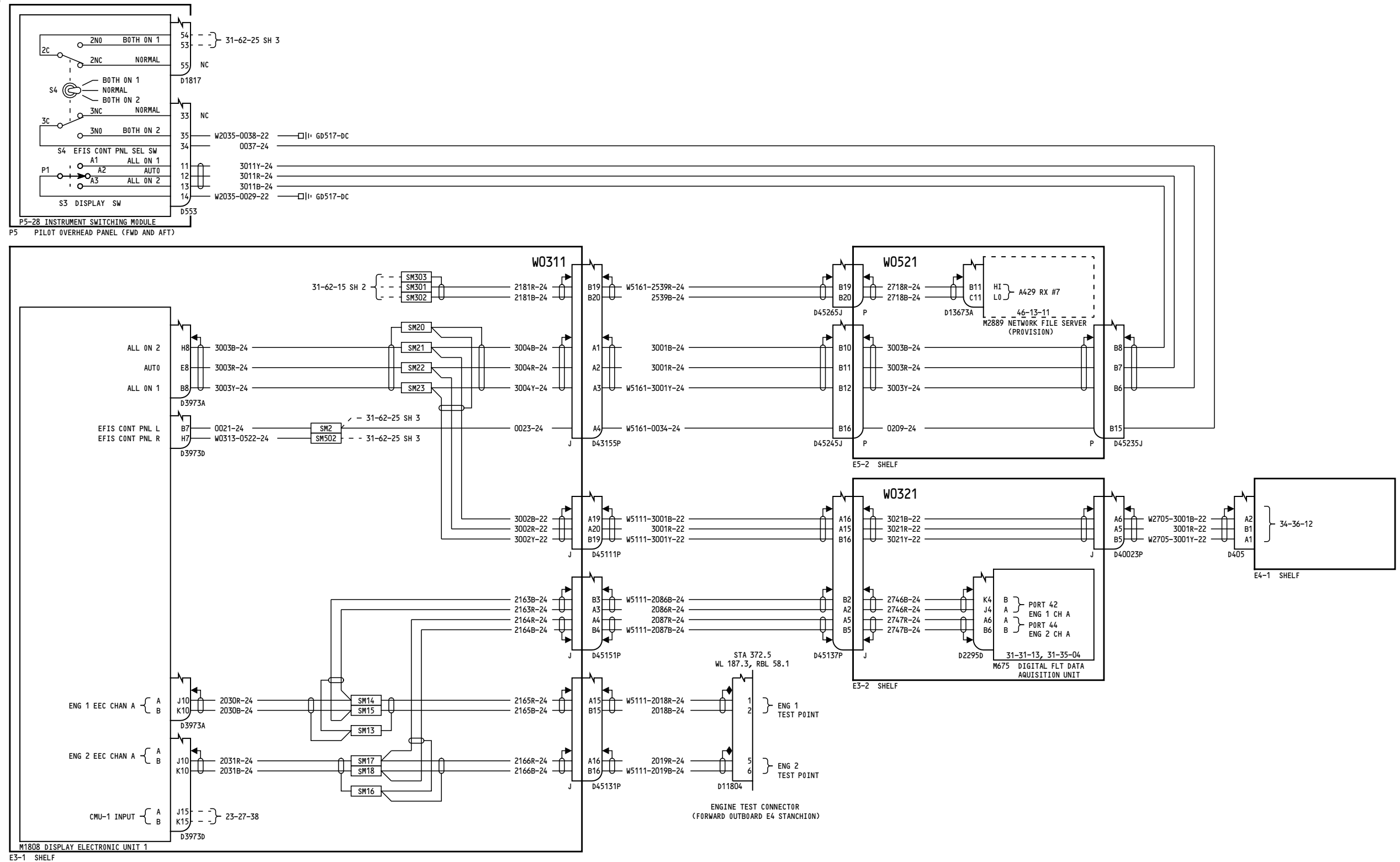


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YT104-YT105

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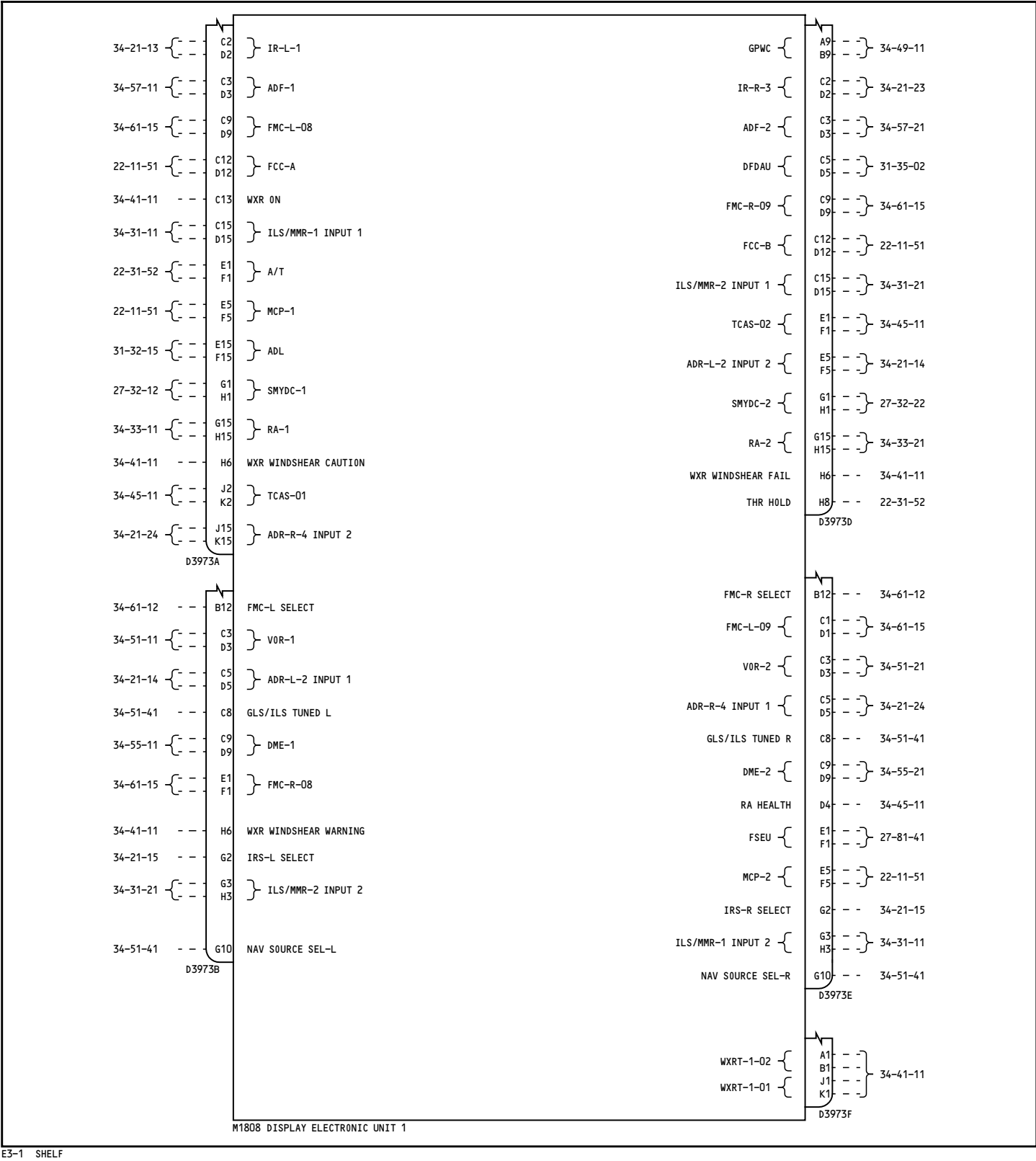
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YT106-YT120

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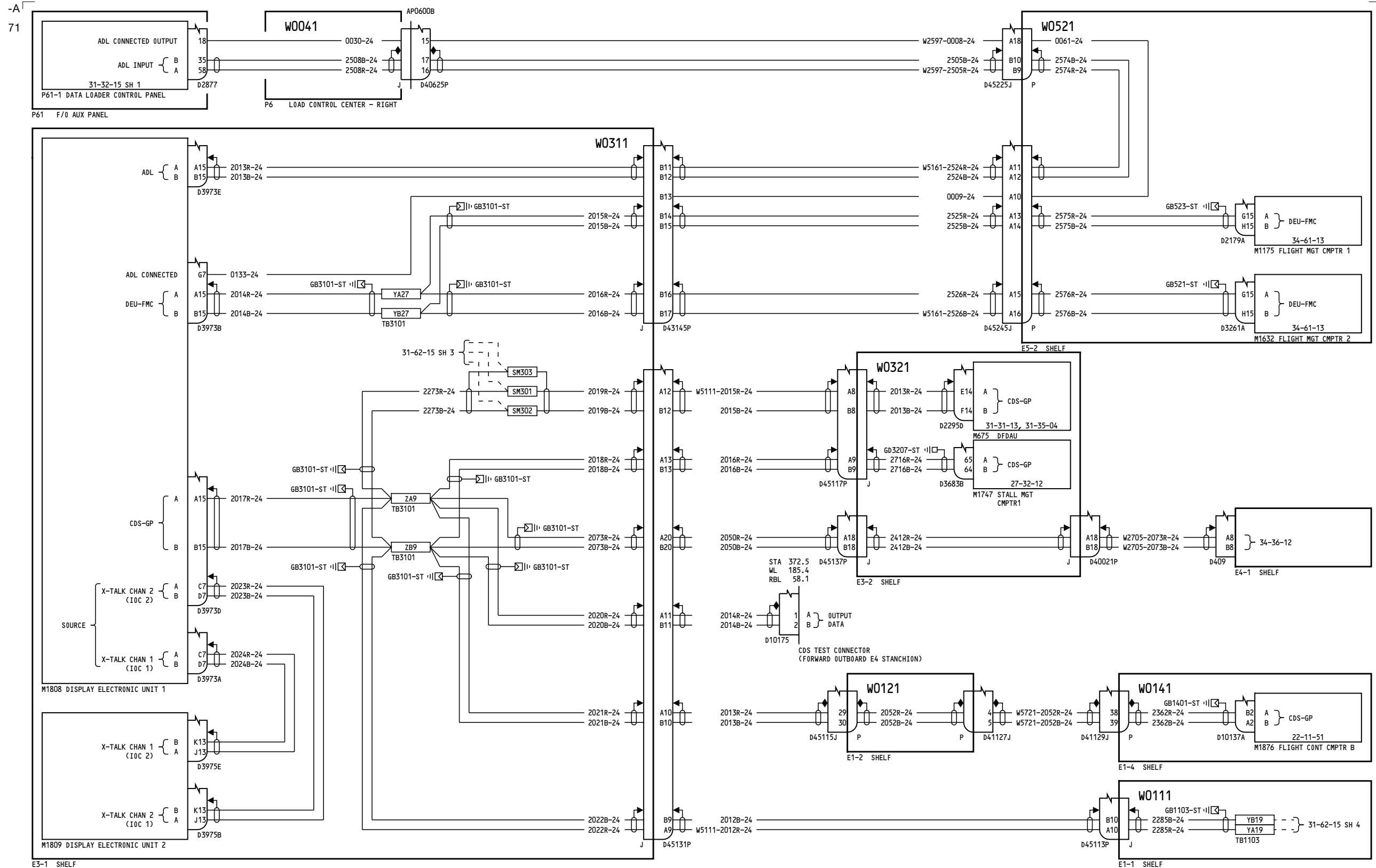
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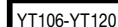
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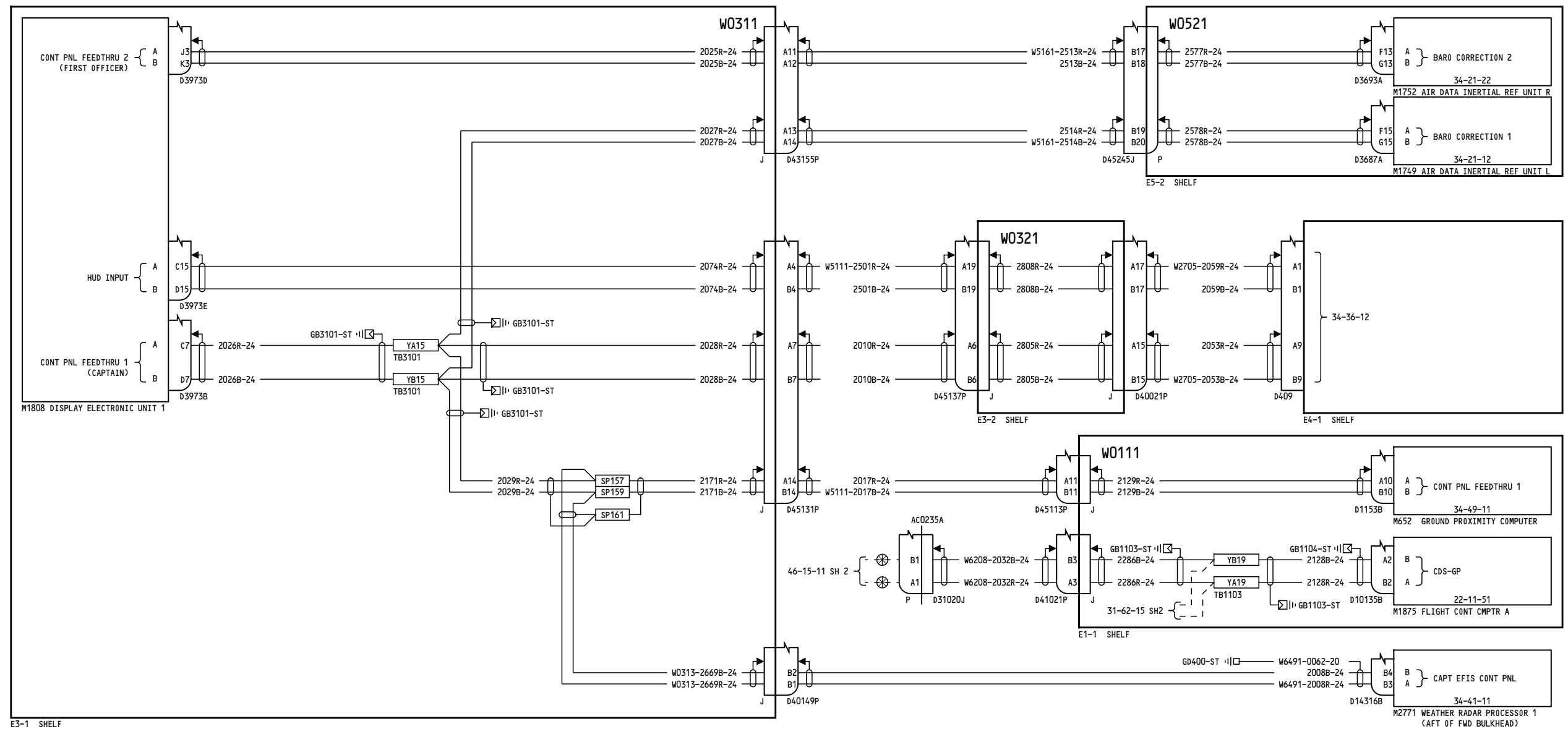
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YT106-YT120

CDS - DEU 1 AVIONICS
INTERFACES

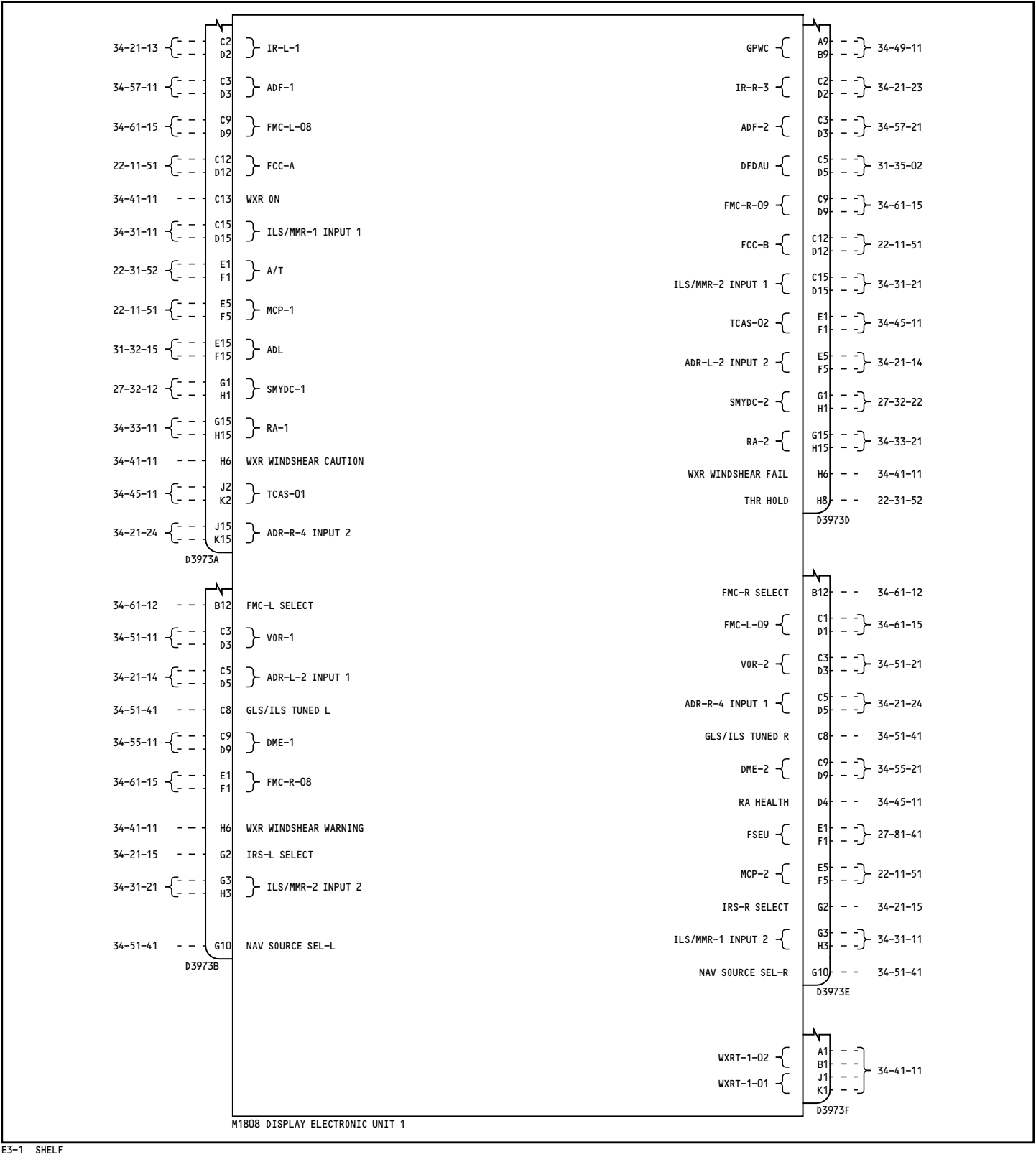
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YT126-YT133

**CDS - DEU 1 AVIONICS
INTERFACES**

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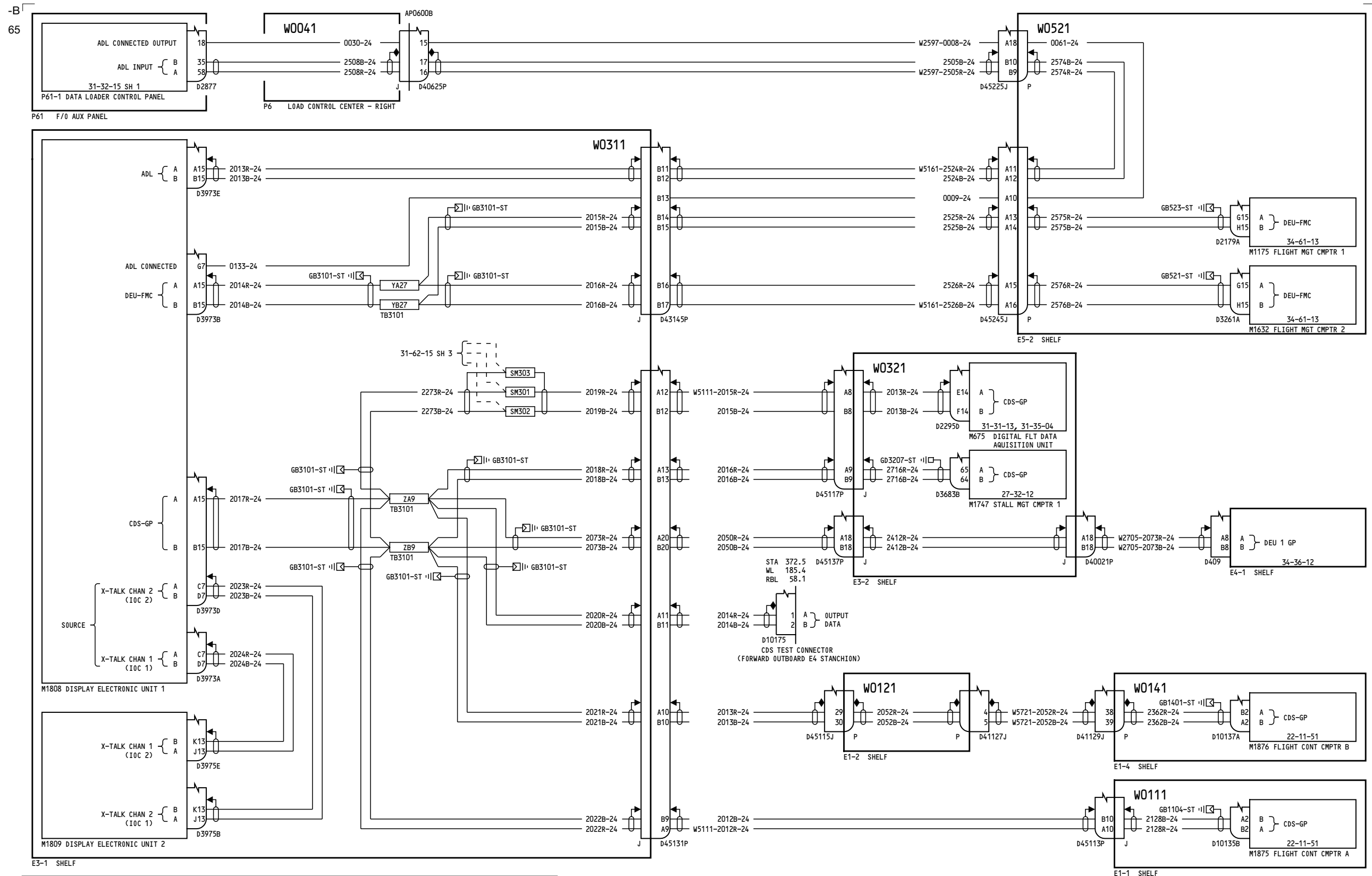
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YT126-YT133

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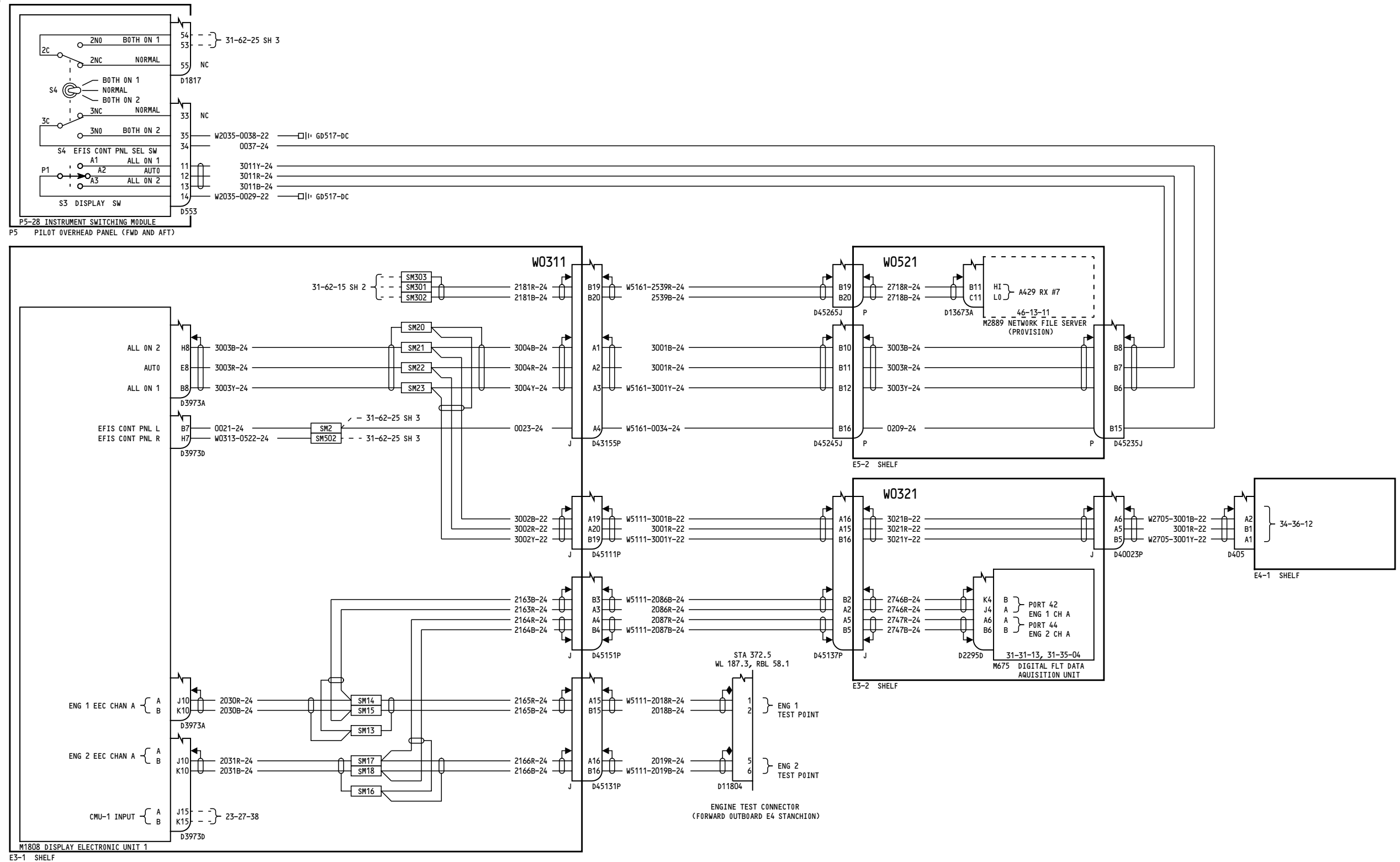
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YT126-YT133

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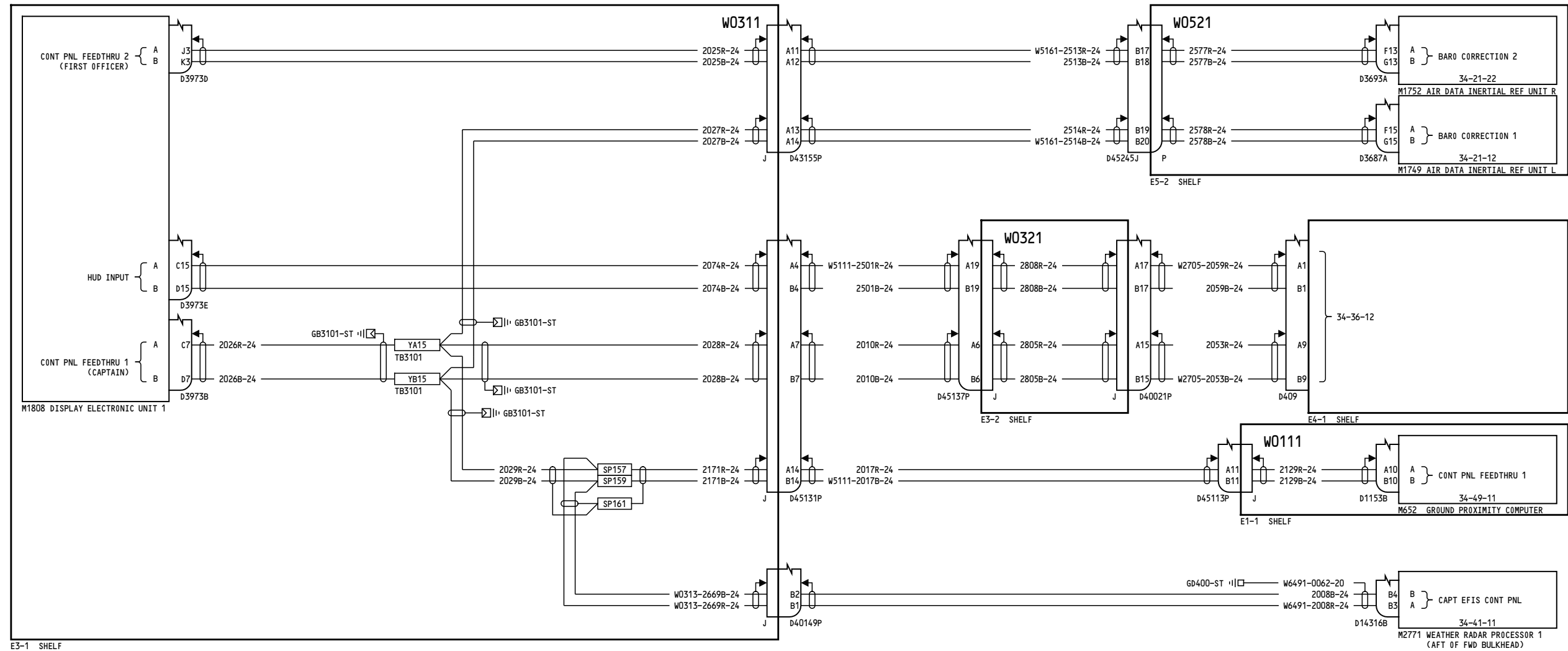
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CDS - DEU 1 AVIONICS
INTERFACES

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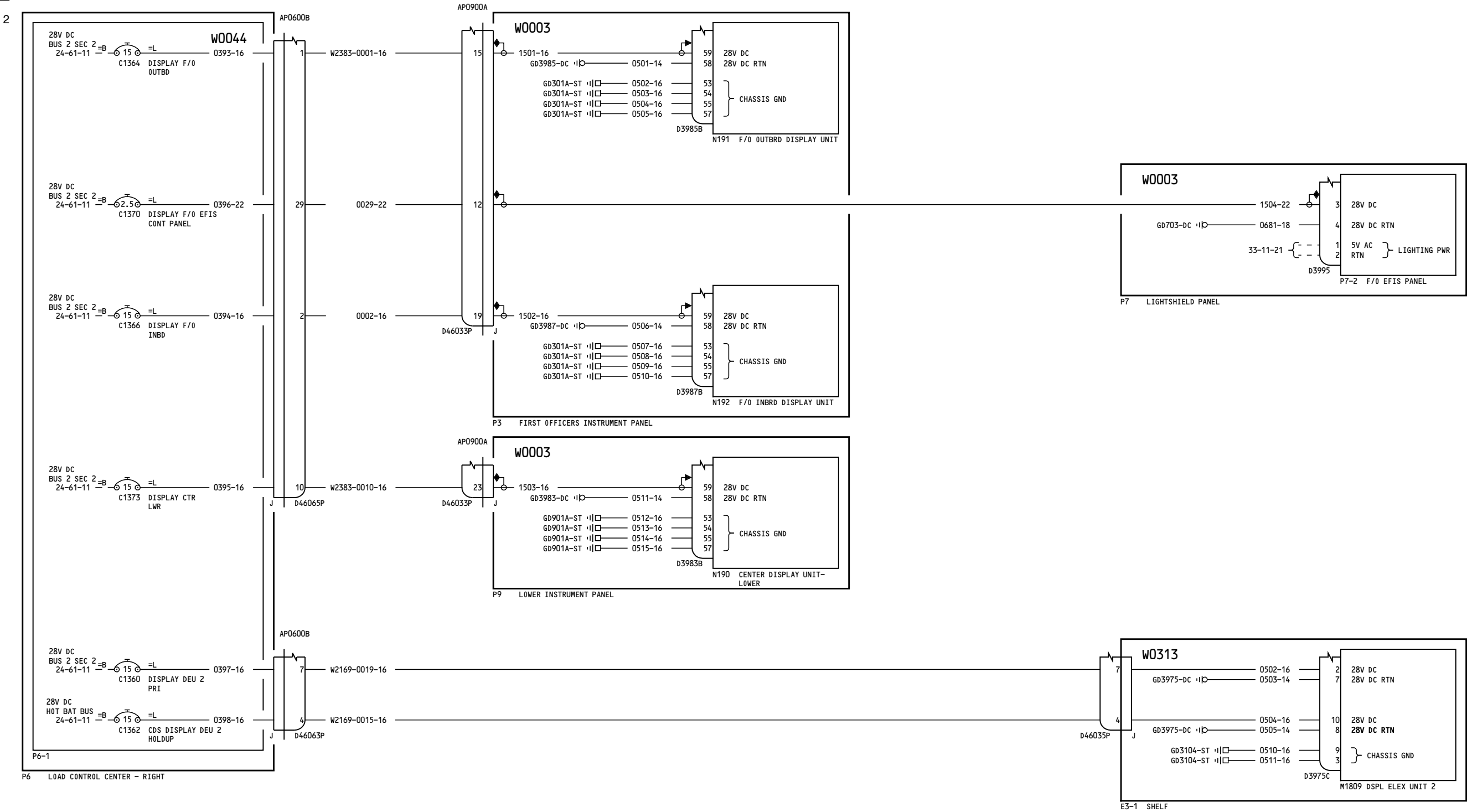
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CDS - POWER DISTRIBUTION
AND INSTRUMENT LIGHTING
FIRST OFFICER

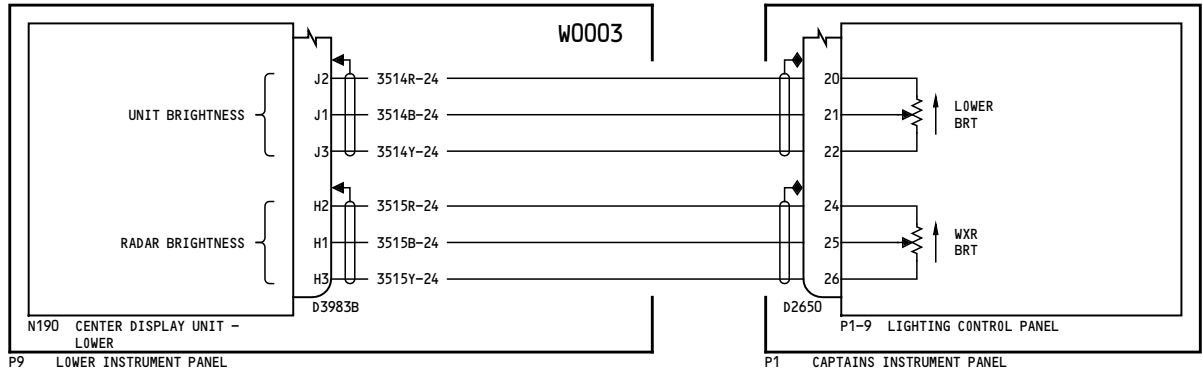
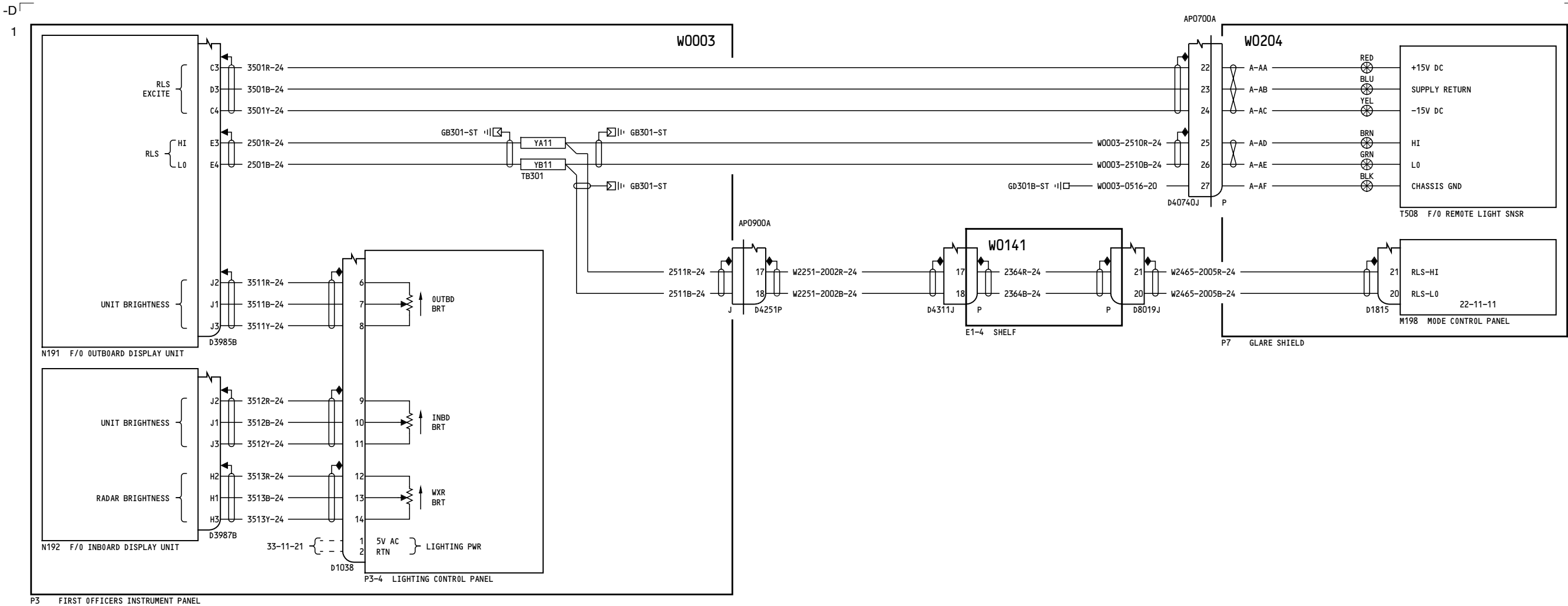
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CDS - POWER DISTRIBUTION
AND INSTRUMENT LIGHTING
FIRST OFFICER

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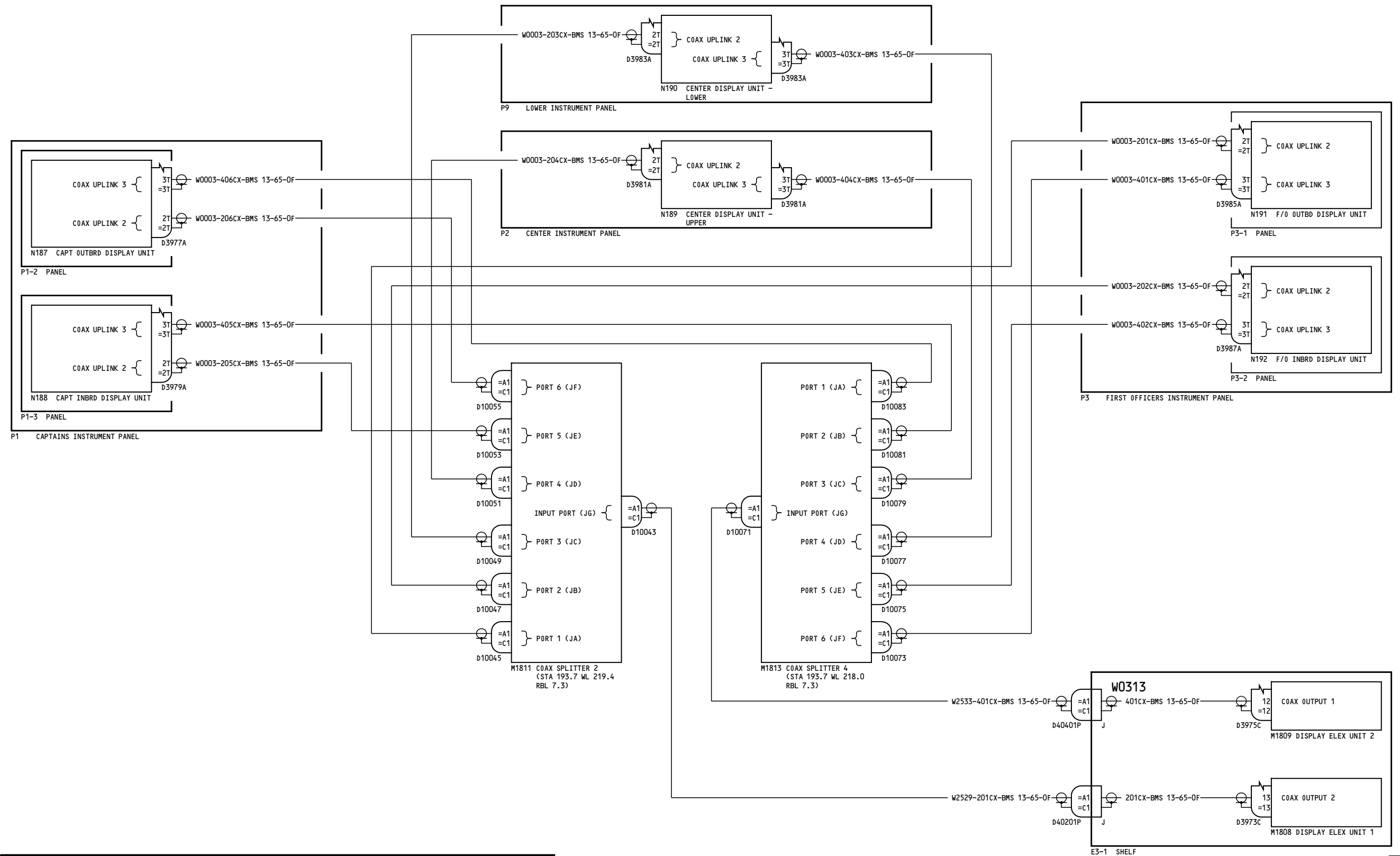
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**CDS - VIDEO COAX
SPLITTERS 2 AND 4
DU STATUS**

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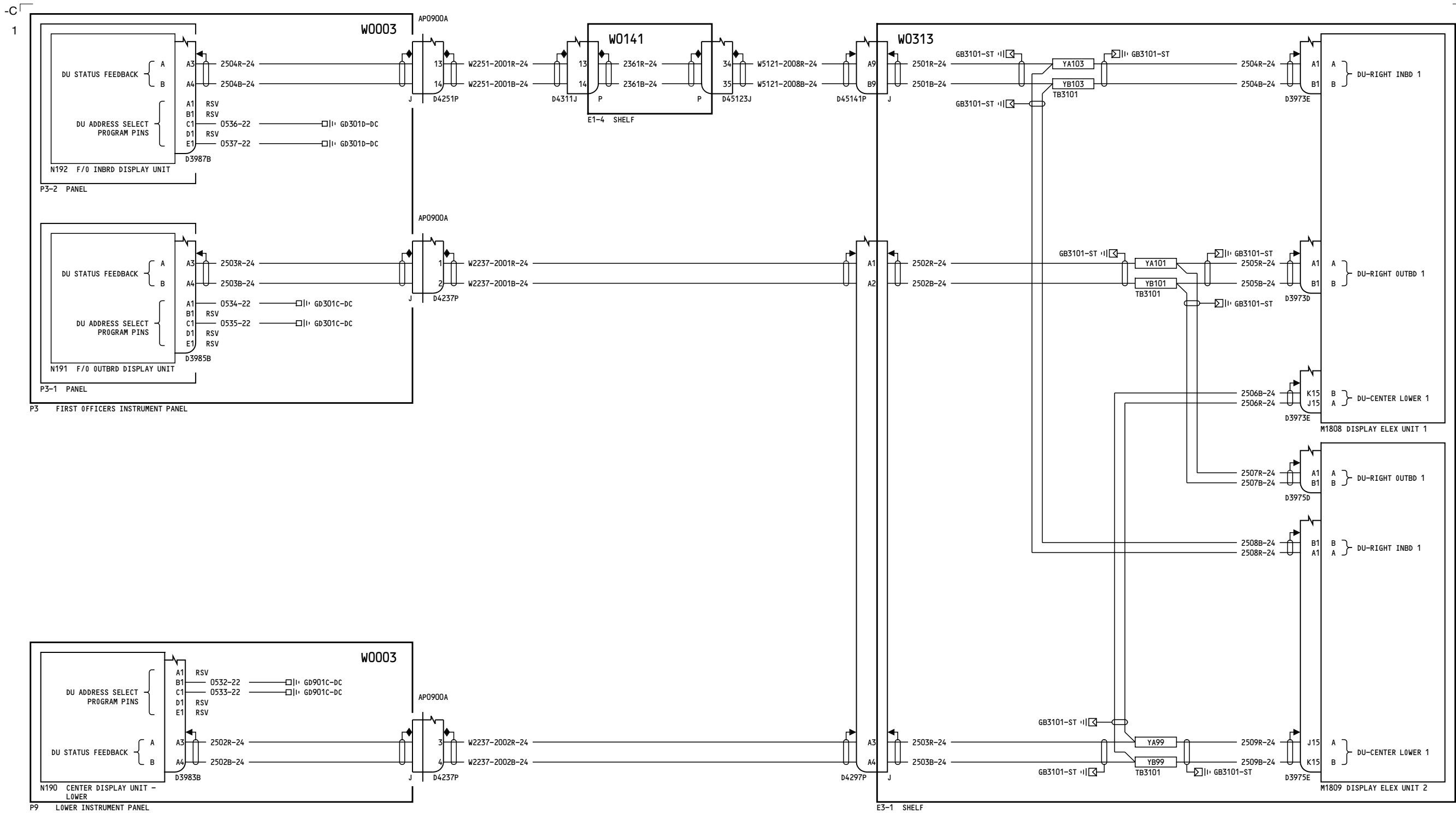
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CDS - VIDEO COAX
SPLITTERS 2 AND 4
DU STATUS

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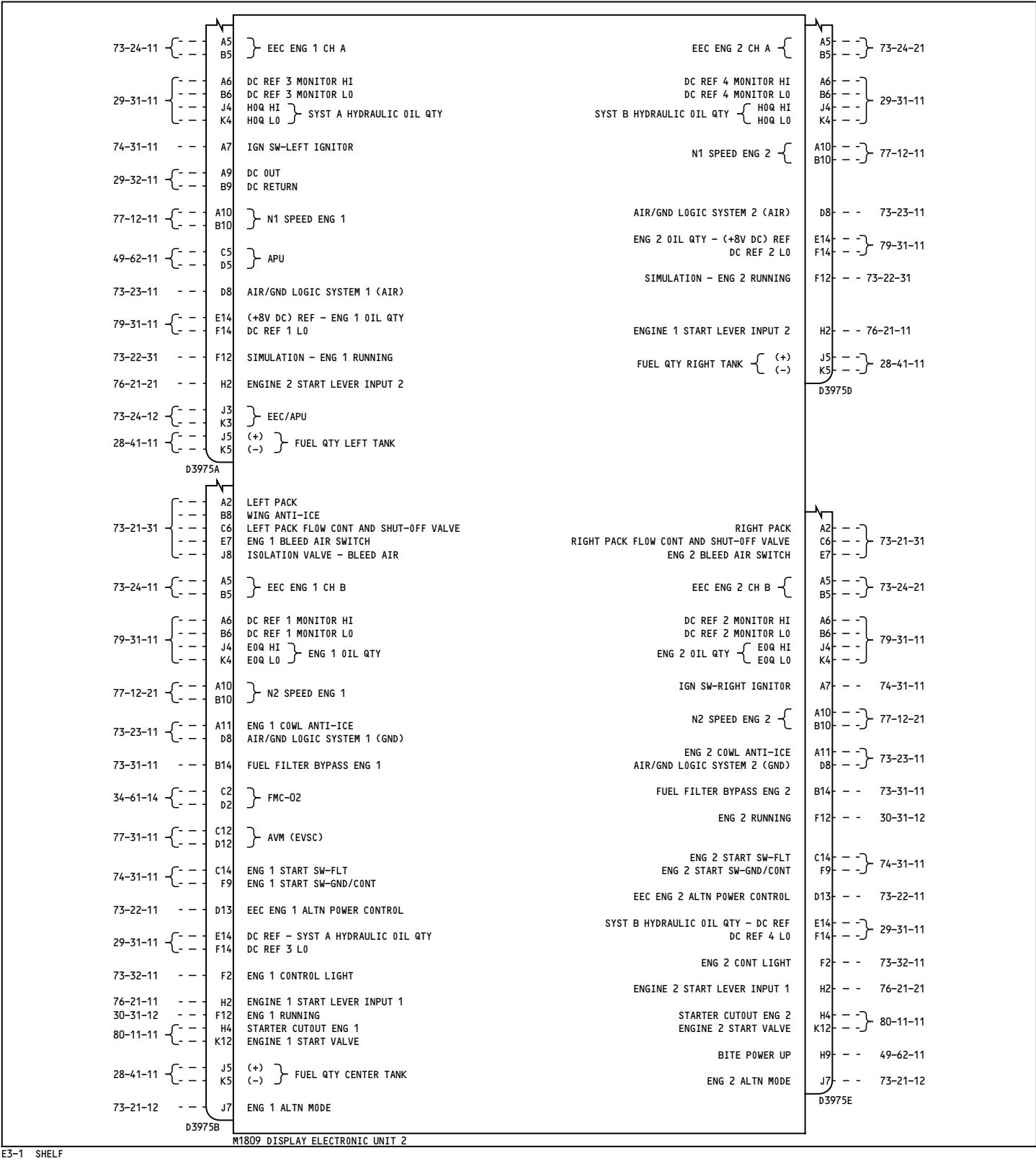
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CDS - DEU 2 ENGINE
HYDRAULIC, APU AND FUEL
INTERFACES

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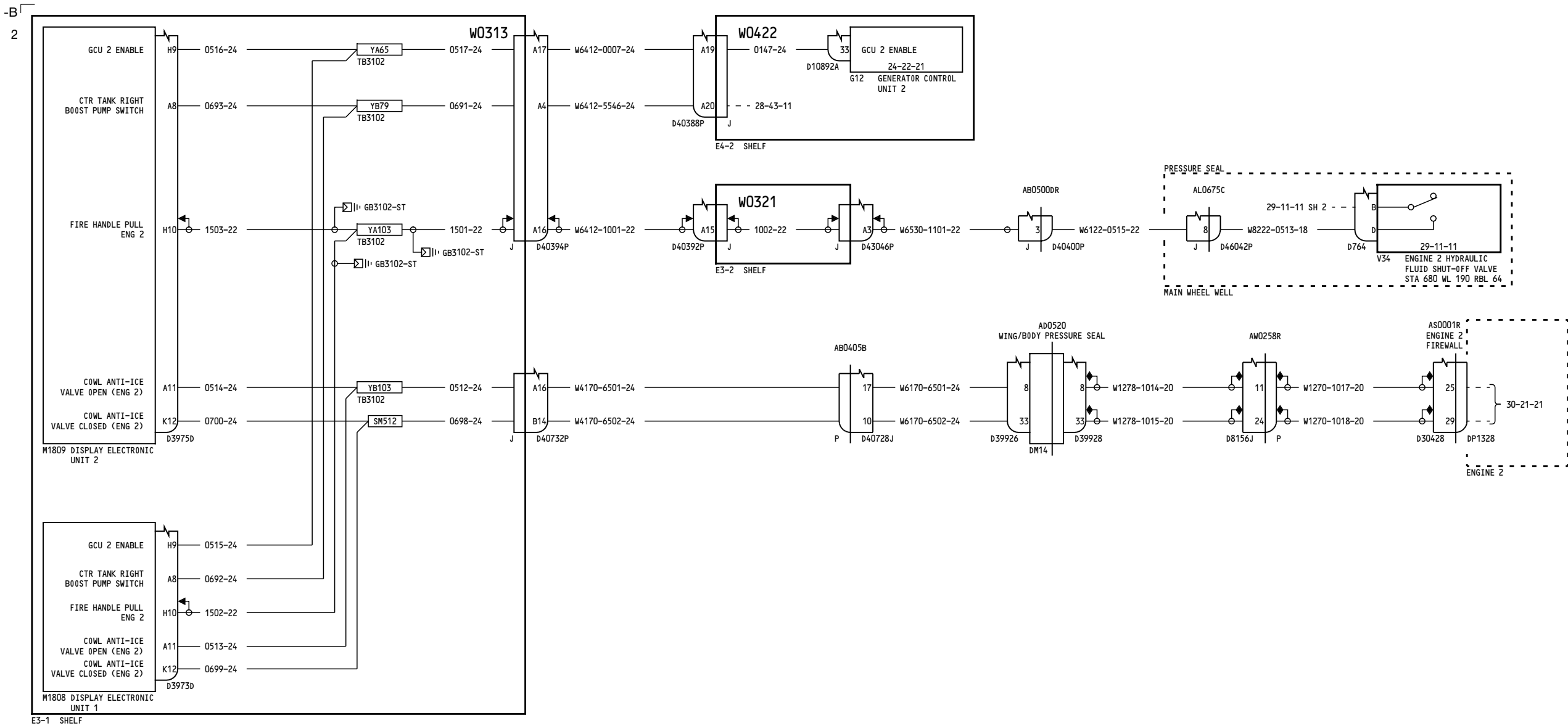
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HYDRAULIC, APU AND FUEL
INTERFACES

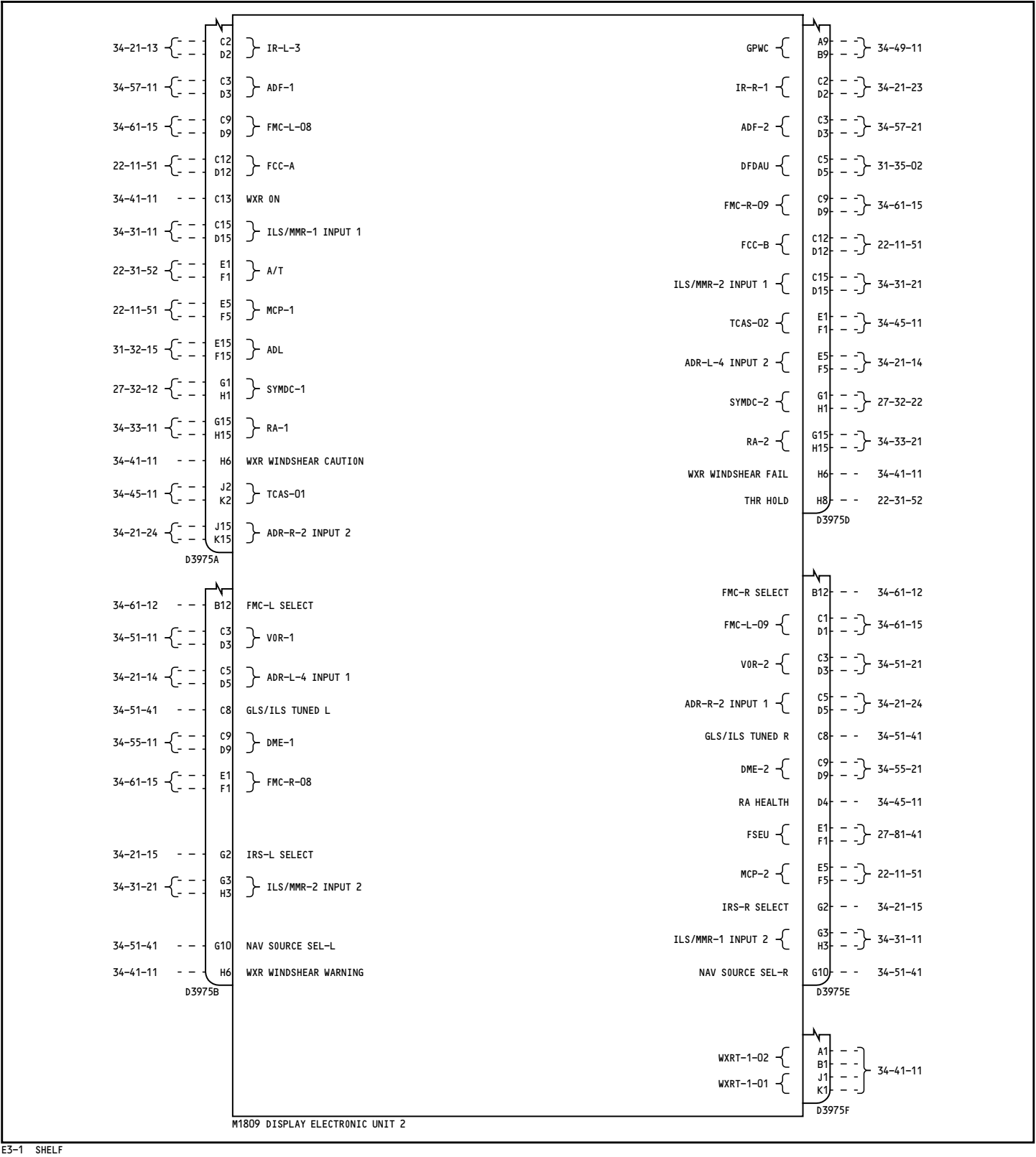
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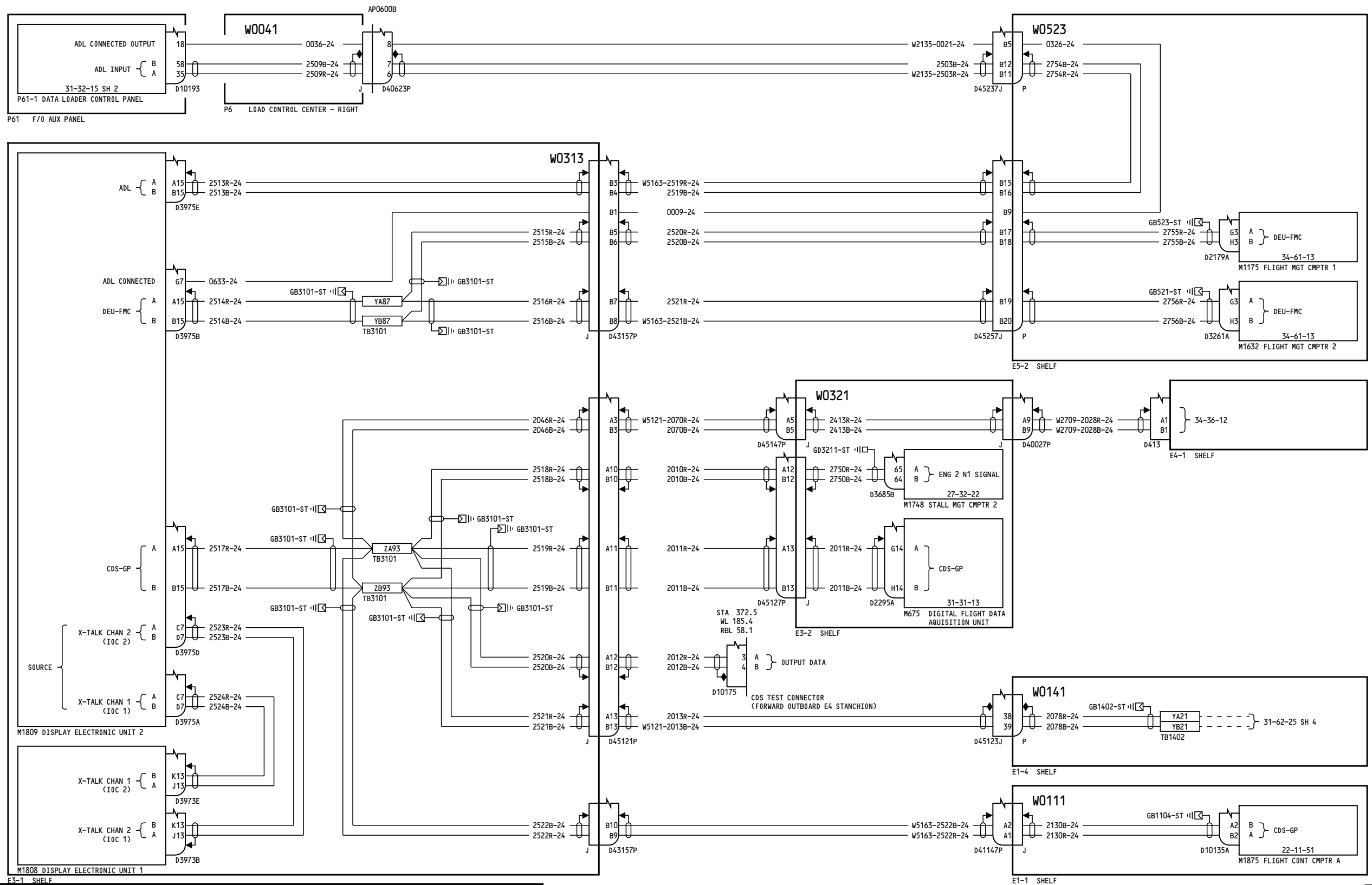
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YT101-YT102

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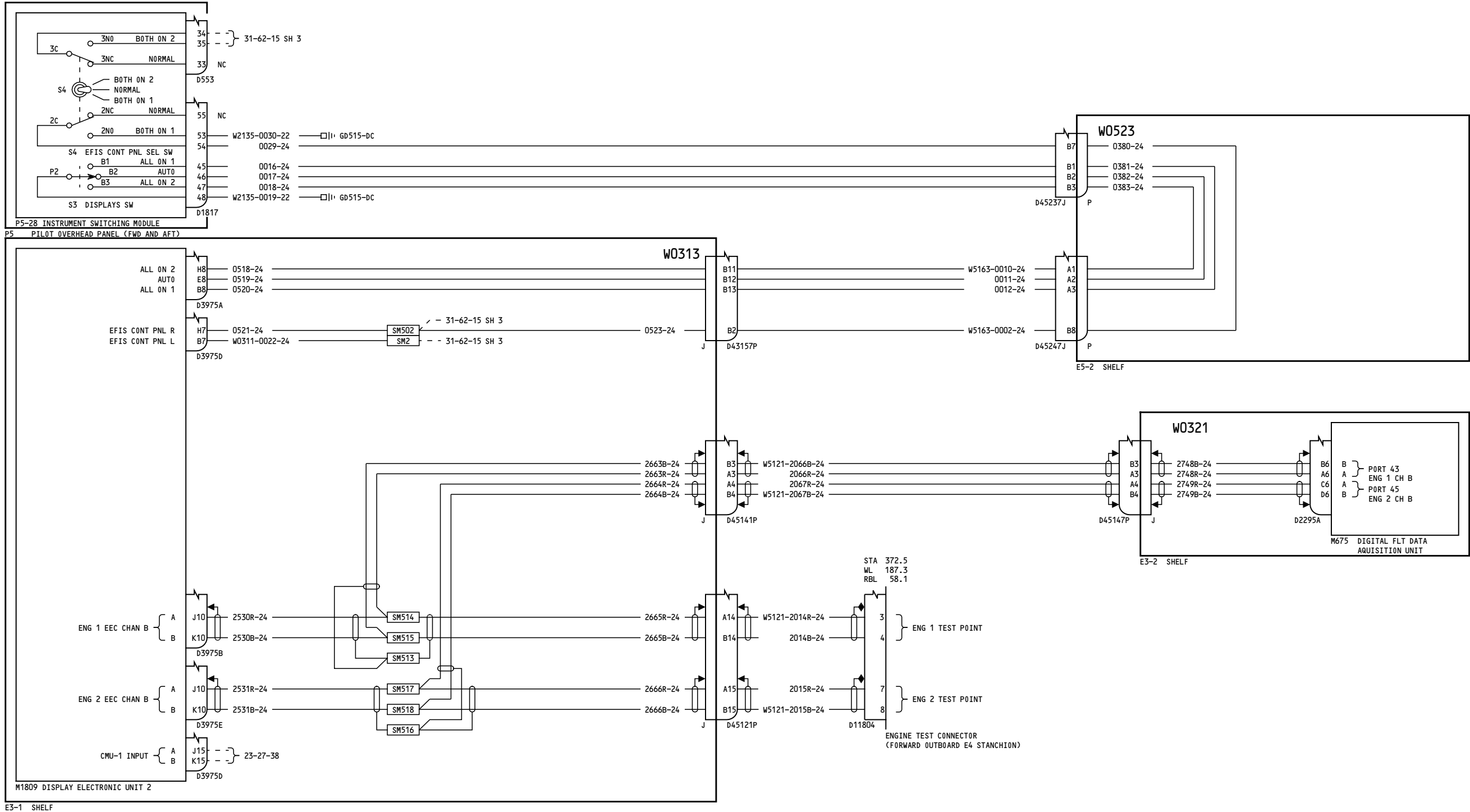
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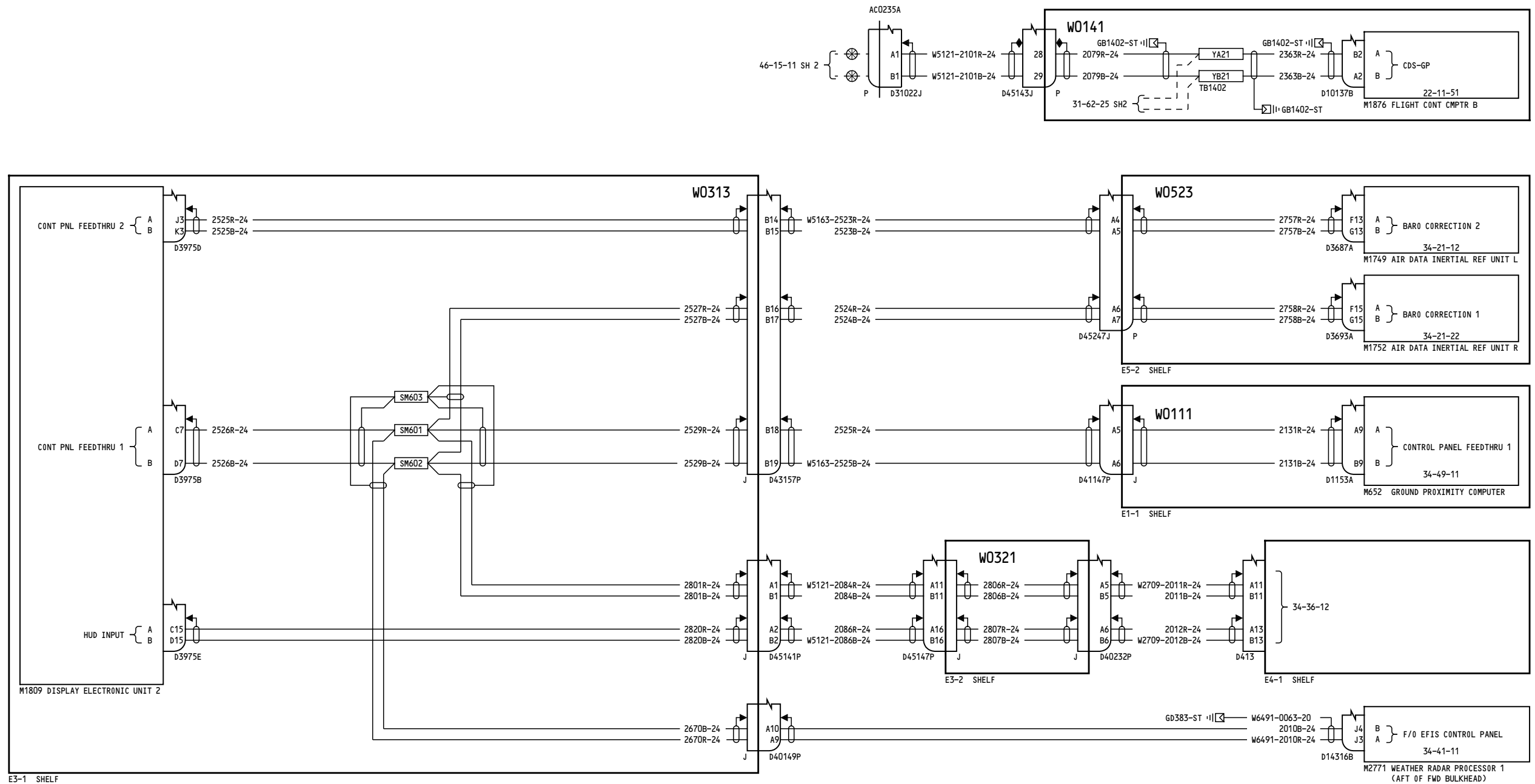
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YT101-YT102

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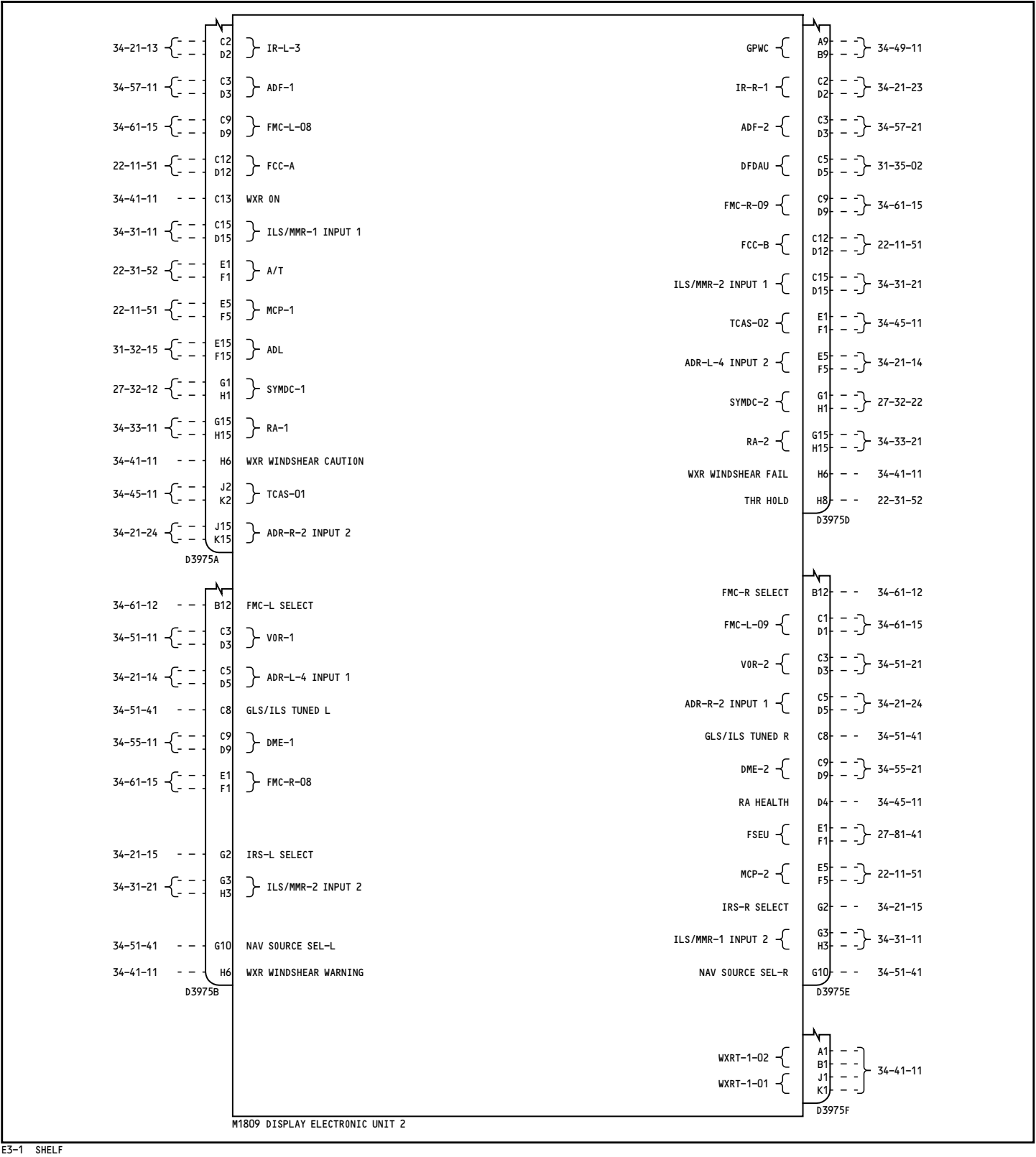
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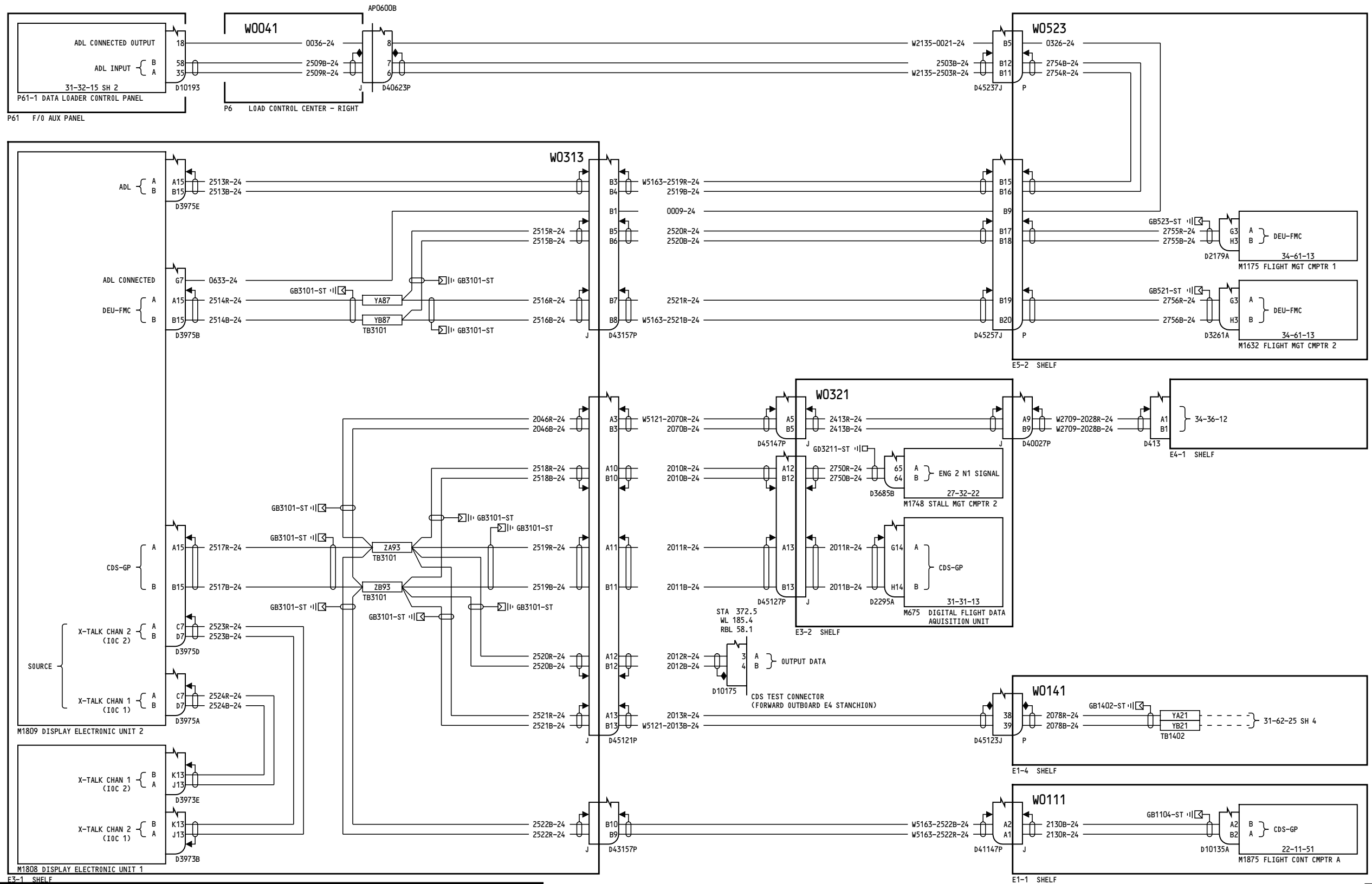
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YT103

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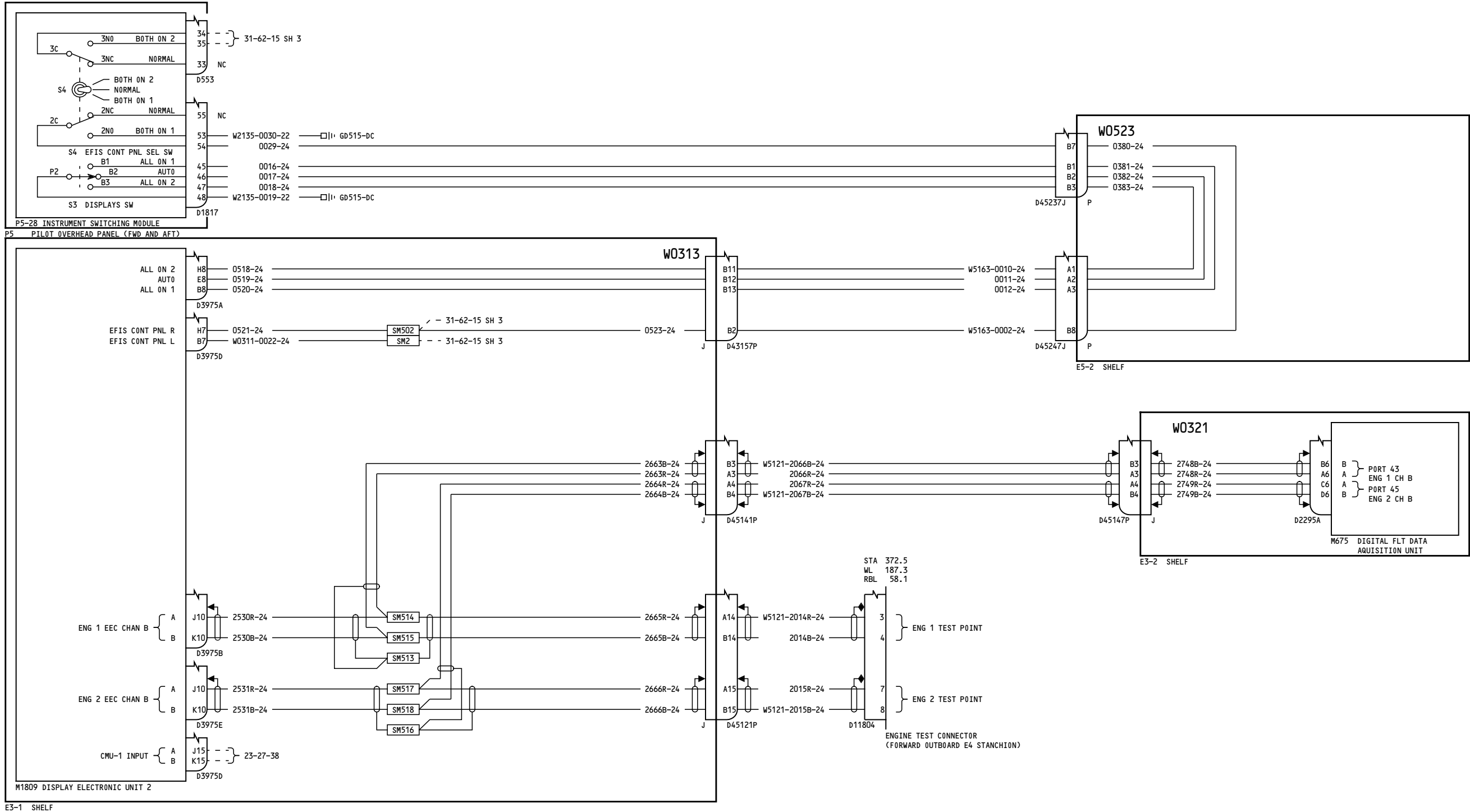
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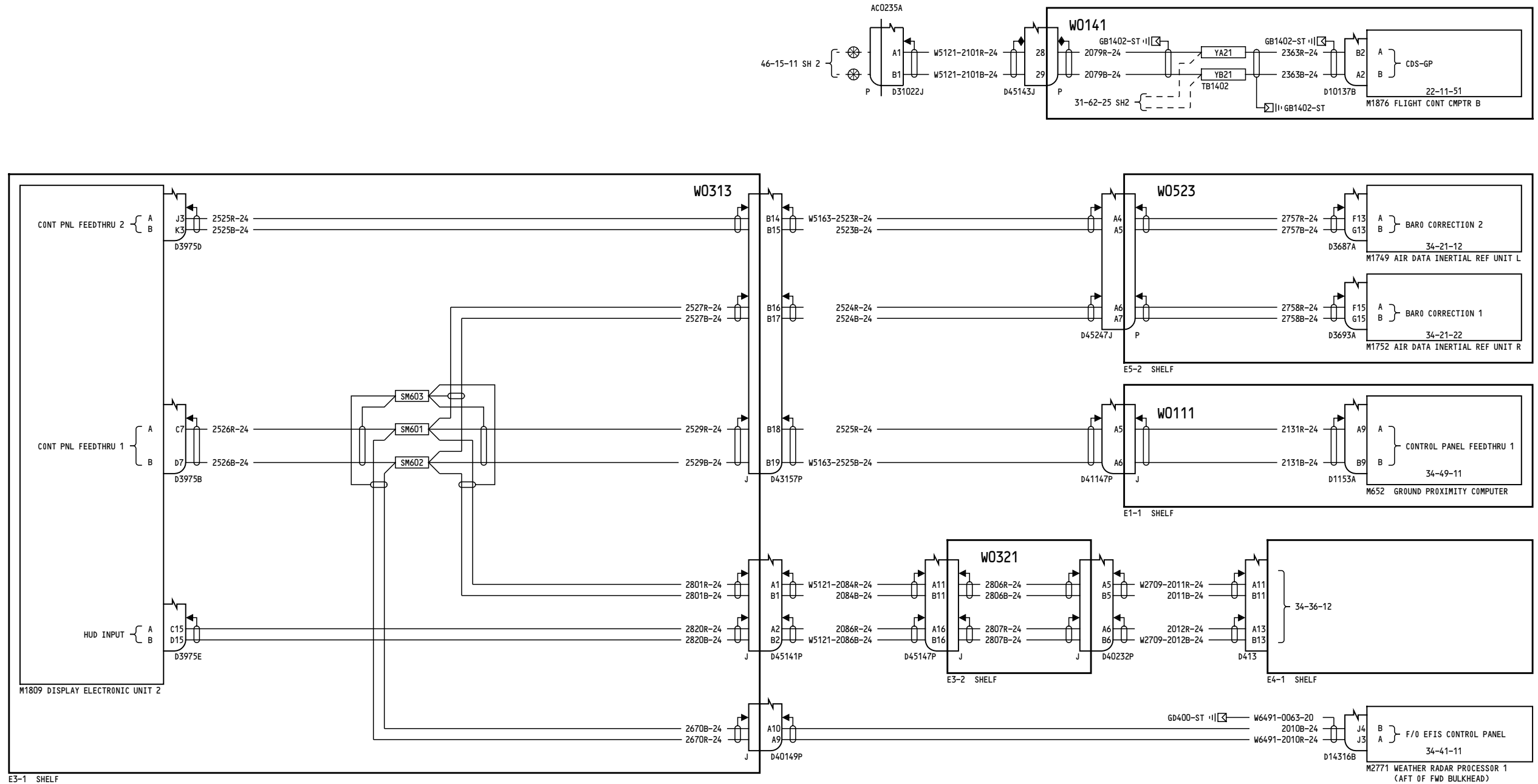
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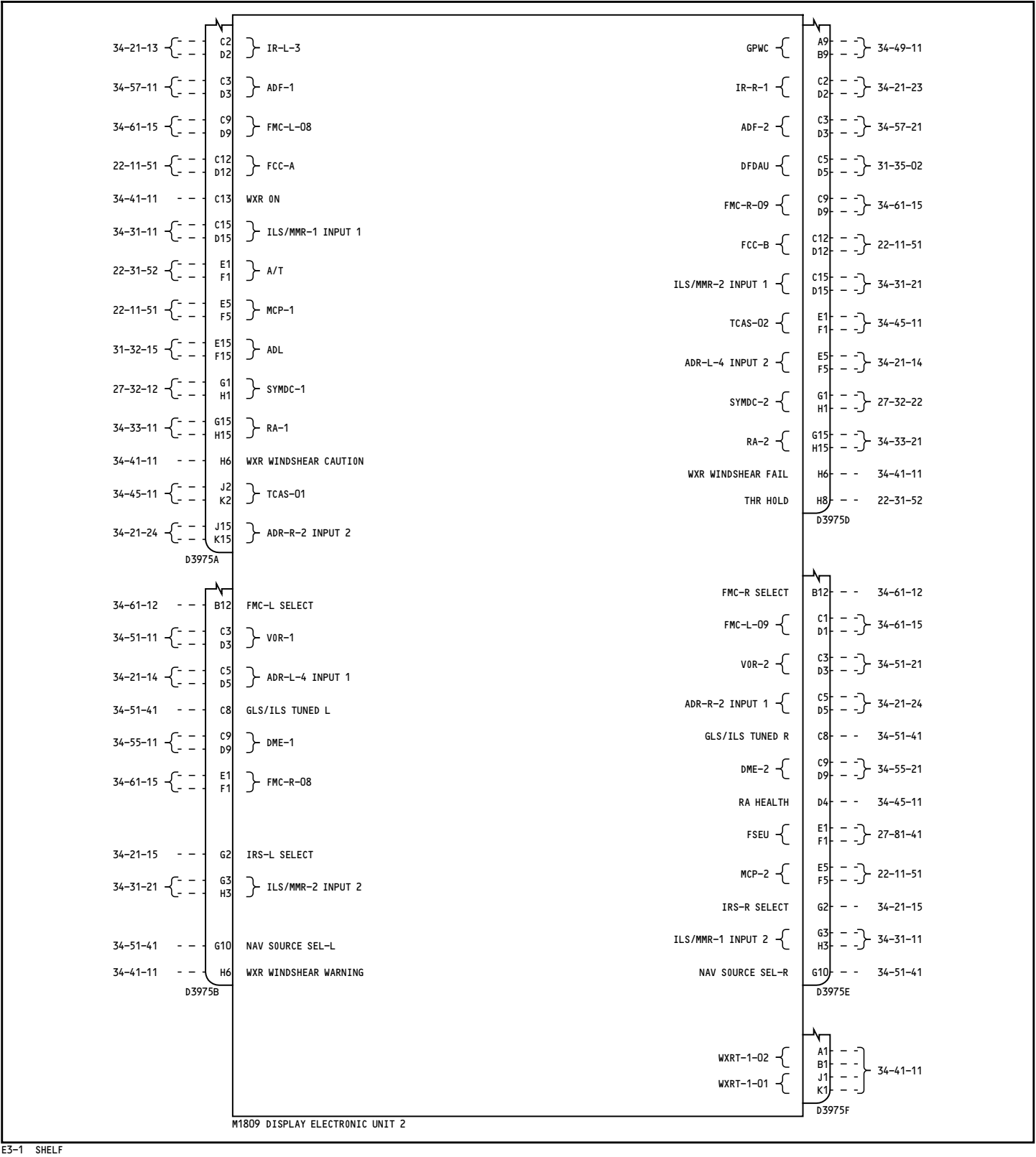
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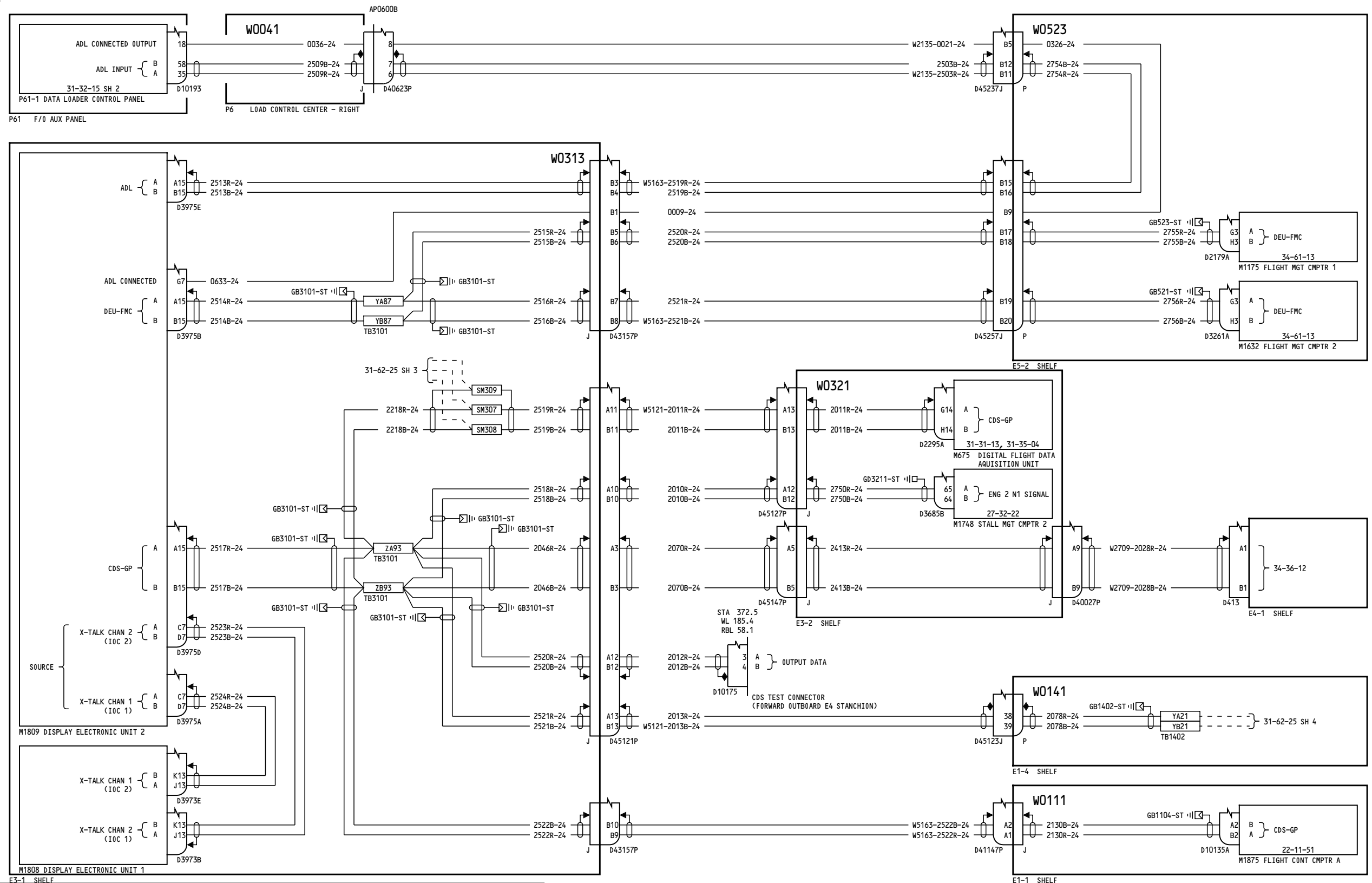
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YT104-YT105

CDS - DEU 2 AVIONICS INTERFACES

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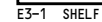
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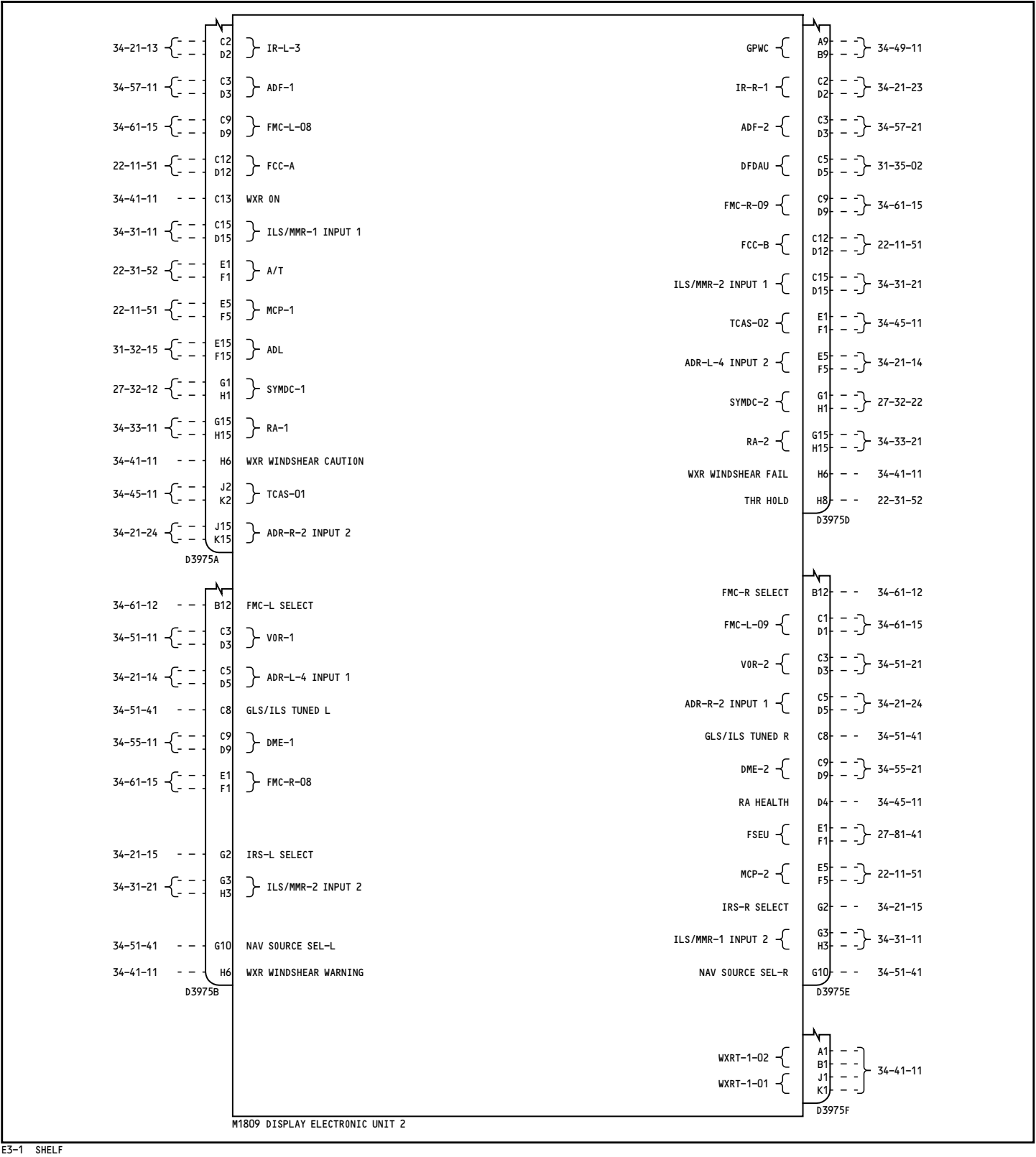
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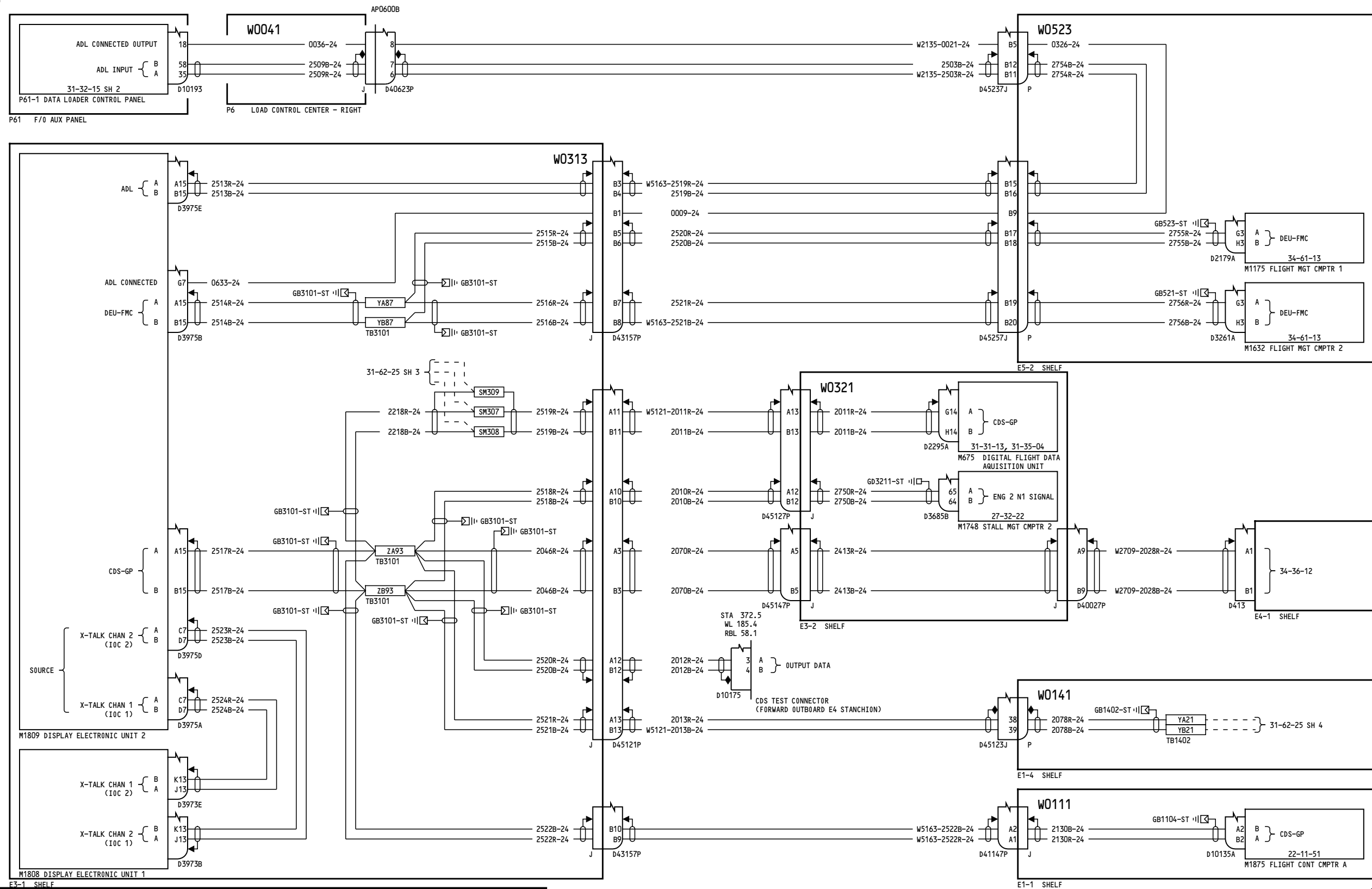


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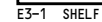


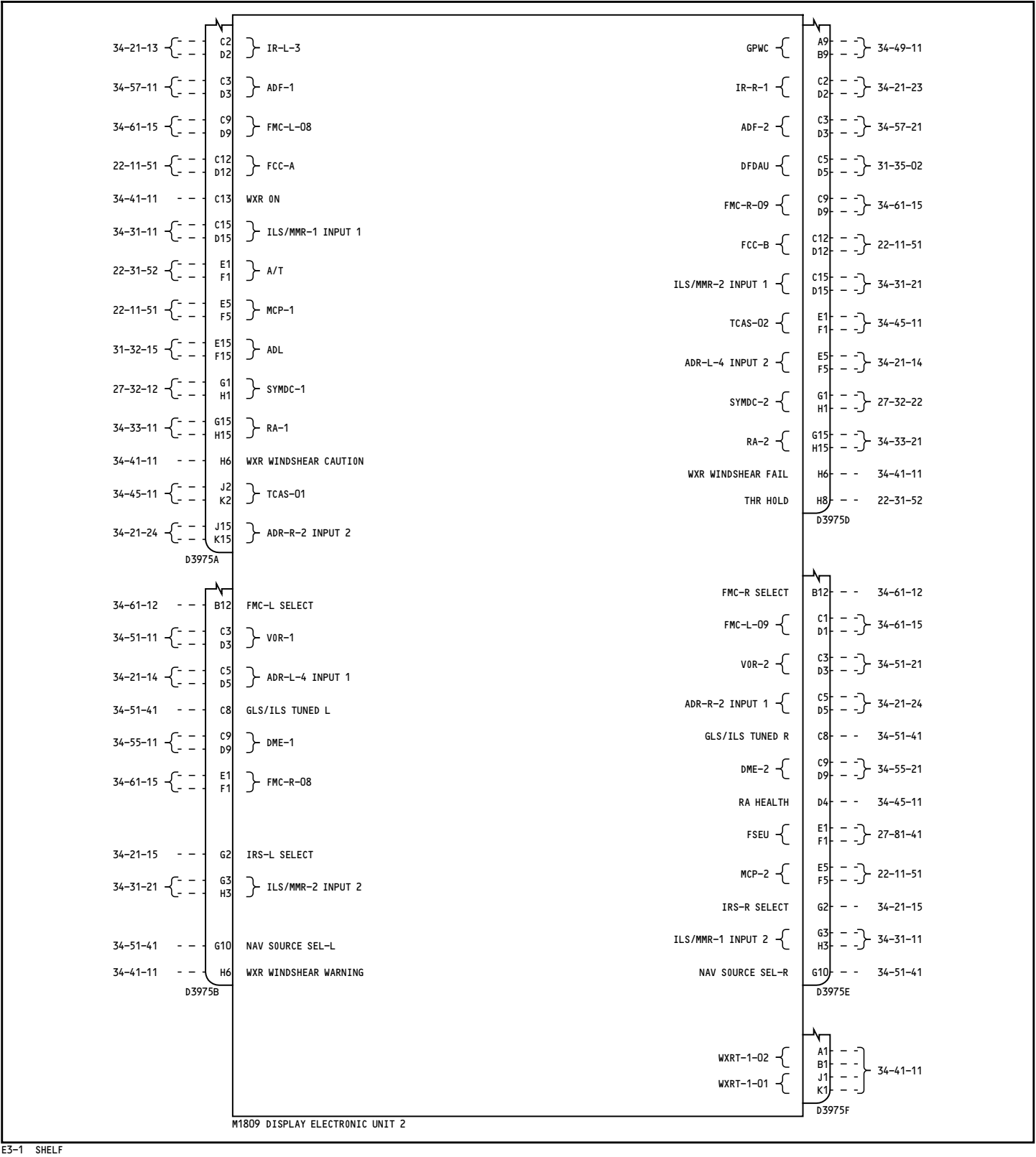
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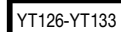
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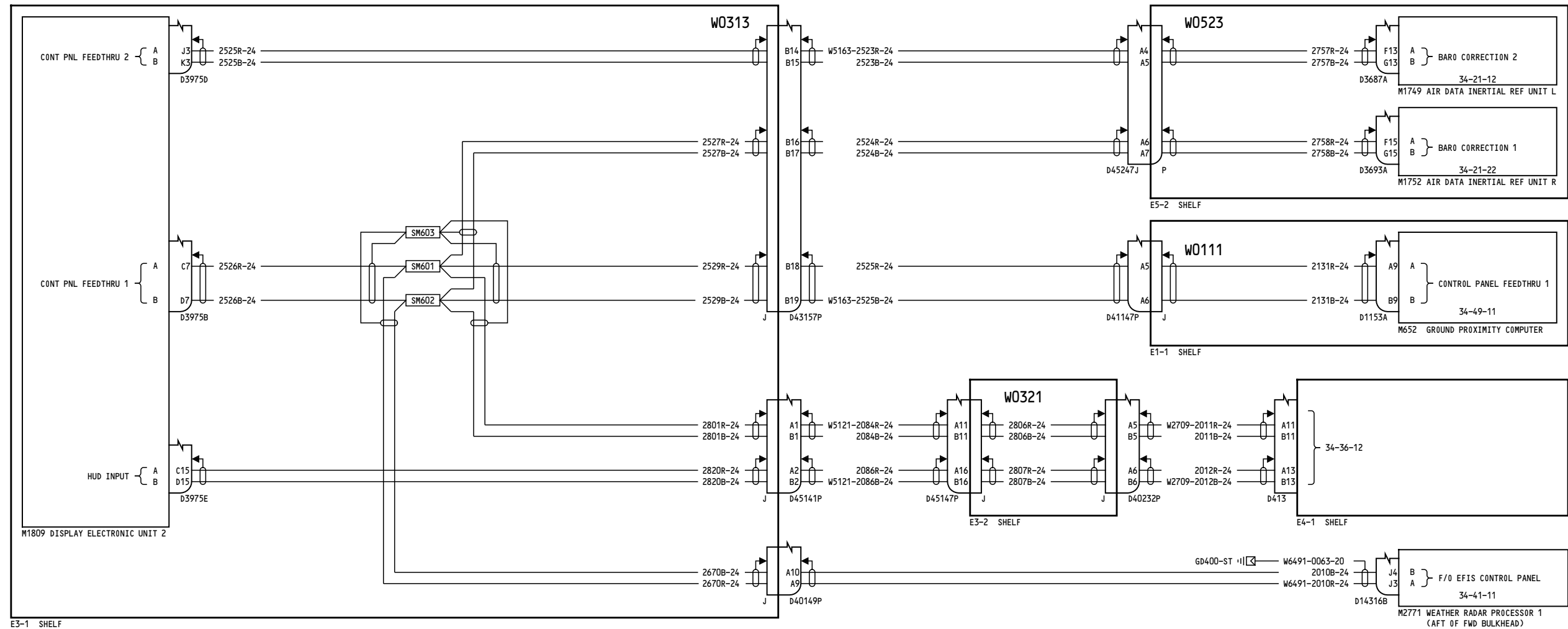
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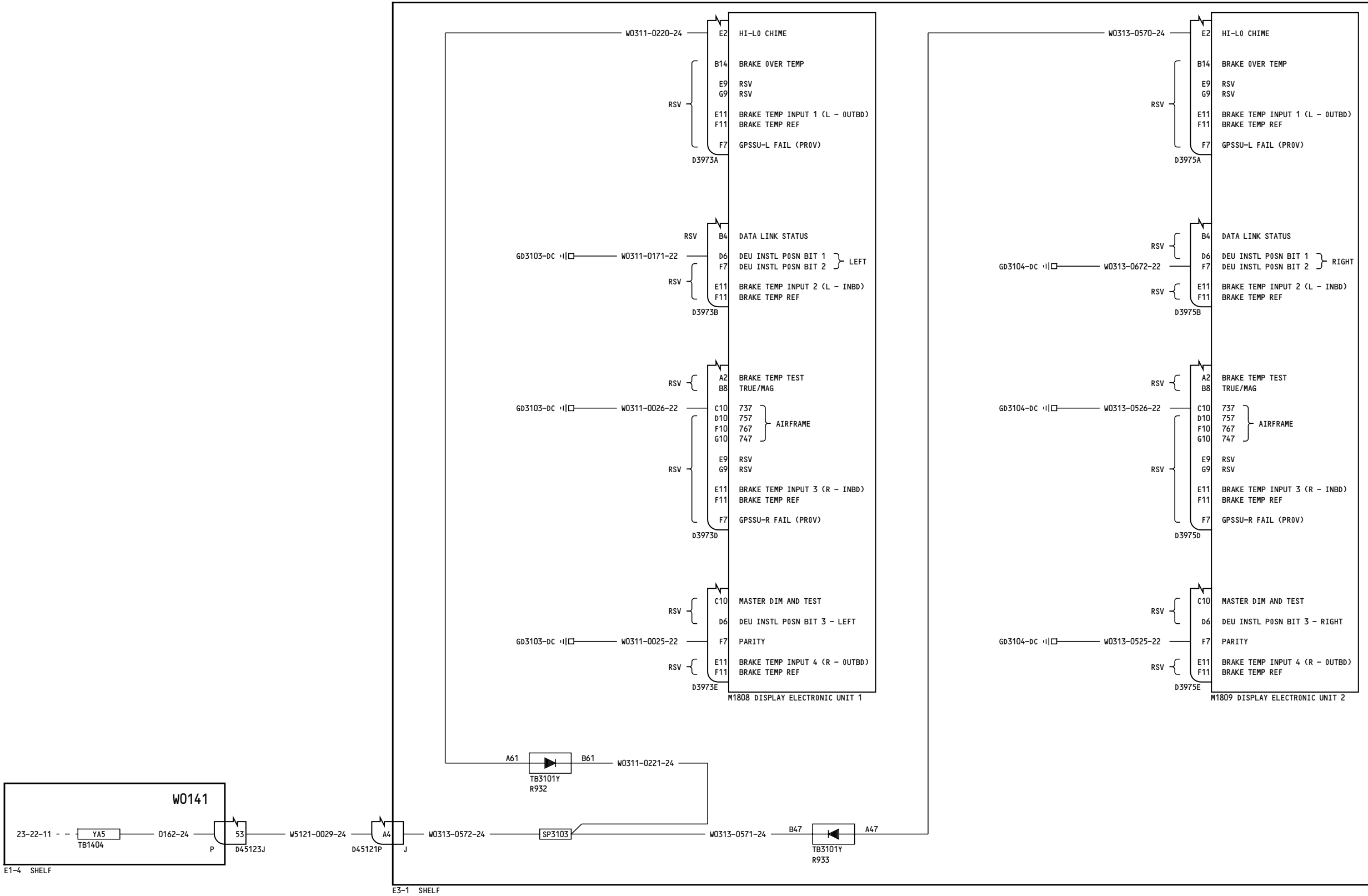
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CDS - DEU SELECT AND
PROGRAM PINS

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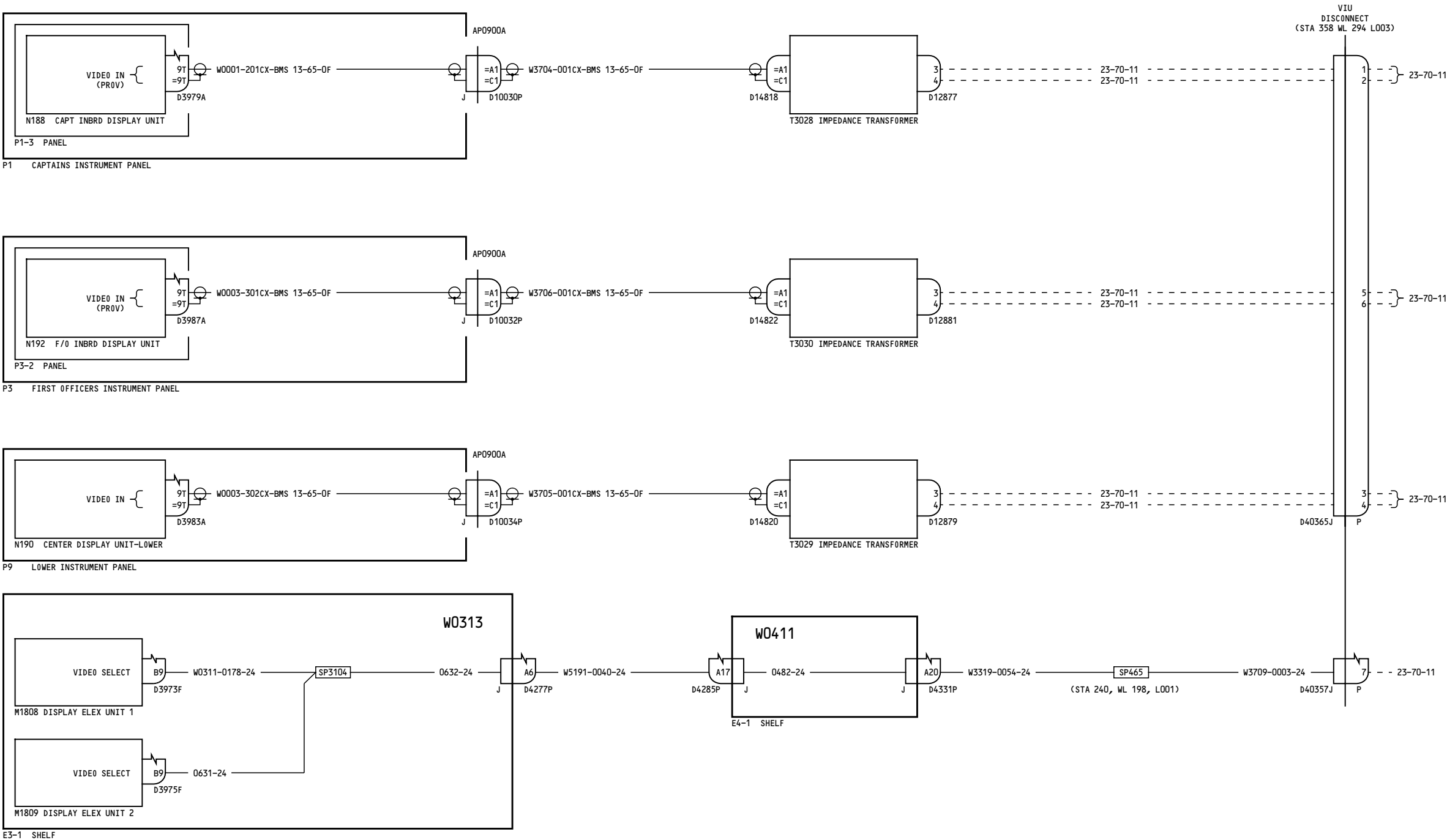
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CDS - VIDEO MONITORING

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