

**CHAPTER**

**21**

**AIR CONDITIONING**



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# WIRING DIAGRAM MANUAL

## CHAPTER 21 AIR CONDITIONING

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<b><u>CABIN AIR RECIRCULATION SYSTEM</u></b>						
EQUIPMENT COOLING - RECIRCULATION FANS	21-25-11		1	1	Jan 21/2005	ALL
				2	Jan 21/2005	ALL
		1.1	1	Jan 21/2005	001-002	
			2	Jan 21/2005	001-002	
		1.2	1	Jan 21/2005	003-115	
			2	Jan 21/2005	003-115	
<b><u>PRESSURIZATION CONTROL SYSTEM</u></b>						
CABIN PRESSURE SYSTEM - AUTO 1	21-31-11		1	1	Jan 21/2005	001-003 005 007-008
				2	Aug 01/2005	001-003 005 007-008
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			2	Aug 01/2005	001-002	
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CABIN PRESSURE SYSTEM - AUTO 2	21-31-21		1	1	Jan 21/2005	001-003 005 007-008
				2	Jan 21/2005	001-003 005 007-008
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			2	Jan 21/2005	001-002	
		2	1	Jan 21/2005	004 006	
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CABIN PRESSURE SYSTEM - MANUAL	21-31-31		1		Jan 21/2005	001-003 005 007-099
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CABIN PRESSURE WARNING	21-33-12		1		Jan 21/2005	ALL
<b><u>FORWARD CARGO COMPARTMENT HEATING SYSTEM</u></b>						
FORWARD CARGO HEATING	21-43-11		1		Jan 21/2005	001-099
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<b><u>AFT/BULK CARGO COMPARTMENT HEATING SYSTEM</u></b>						
AFT CARGO HEATING	21-44-11		1		Jan 21/2005	001-099
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<b><u>SUPPLEMENTAL HEATING SYSTEM</u></b>						
SUPPLEMENTARY HEATERS - CAPTAINS AND FIRST OFFICERS	21-45-11		1		Jan 21/2005	001-002 010-099
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			2		Jan 21/2005	003-009
			3		Jan 21/2005	115-199
<b><u>AIR COOLING PACK SYSTEM</u></b>						
AIR CONDITIONING PACK FLOW CONTROL - LEFT	21-51-11		1		Jan 21/2005	001-099
			1.1		Jan 21/2005	001-002
			2		Jan 21/2005	115-199
AIR CONDITIONING LEFT PACK CONTROL - AUTO	21-51-12		1	1	Jan 21/2005	001-099
			2		Dec 18/2007	001-099
			1.1	1	Jan 21/2005	001-002
			2		Dec 18/2007	001-002
			2	1	Jan 21/2005	115-199
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AIR CONDITIONING LEFT PACK TEMPERATURE CONTROL - STANDBY	21-51-13		1	1	Jan 21/2005	001-099
			2		Jan 21/2005	001-099
			1.1	1	Jan 21/2005	001-002

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AIR CONDITIONING PACK LOW LIMIT VALVE CONTROL - LEFT	21-51-14	1			Jan 21/2005	001-099
			2		Jan 21/2005	115-199
AIR CONDITIONING PACK PROTECTION - LEFT	21-51-15	1			Jan 21/2005	001-099
			2		Jan 21/2005	115-199
AIR CONDITIONING PACK FLOW CONTROL - RIGHT	21-51-21	1			Jan 21/2005	ALL
			1.1		Jan 21/2005	001-002
AIR CONDITIONING RIGHT PACK CONTROL - AUTO	21-51-22	1	1		Jan 21/2005	001-099
				2	Dec 18/2007	001-099
			1.1	1	Jan 21/2005	001-002
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AIR CONDITIONING RIGHT PACK TEMPERATURE CONTROL - STANDBY	21-51-23	1	1		Jan 21/2005	001-099
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AIR CONDITIONING PACK LOW LIMIT VALVE CONTROL - RIGHT	21-51-24	1			Jan 21/2005	001-099
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AIR CONDITIONING PACK PROTECTION - RIGHT	21-51-25	1			Jan 21/2005	001-099
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PACK DOOR AND VALVE POSITION INDICATION	21-52-21		1		Jan 21/2005	001-099
			2		Jan 21/2005	115-199
PACK FLOW INDICATION	21-52-31		1		Jan 21/2005	001-008
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<b>EQUIPMENT COOLING SYSTEM</b>						
EQUIPMENT COOLING FAILURE INDICATION	21-58-11		1		Jan 21/2005	001-099
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			2.1	1	Jan 21/2005	115
EQUIPMENT COOLING SMOKE CLEARANCE	21-58-12			2	Jan 21/2005	115
				2	Jan 21/2005	115
			1	1	Jan 21/2005	001-099
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				3	Jan 21/2005	001-099
			1.1	1	Jan 21/2005	001-002
				2	Dec 18/2007	001-002
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			2	1	Jan 21/2005	115-199
FORWARD EQUIPMENT COOLING - SUPPLY FANS	21-58-13			2	Oct 09/2008	115-199
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AFT EQUIPMENT COOLING - EXHAUST FANS	21-58-21		1	1	Jan 21/2005	001-099
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AFT EQUIPMENT COOLING - SUPPLY FANS	21-58-24		1	1	Jan 21/2005	115-199
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<b><u>PRIMARY (ZONE) TEMPERATURE CONTROL SYSTEM</u></b>						
TEMPERATURE CONTROL - FLIGHT DECK ZONE	21-61-11		1		Jan 21/2005	001-099
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TEMPERATURE CONTROL - FORWARD PASSENGER ZONE	21-61-21		1		Jan 21/2005	001-099
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TEMPERATURE CONTROL - AFT PASSENGER ZONE	21-61-31		1		Jan 21/2005	001-099
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TEMPERATURE CONTROL - TRIM PRESSURE REGULATION	21-61-51		1		Dec 18/2007	001-099
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<b><u>VALVE POSITION INDICATION SYSTEM</u></b>						
ZONE TRIM VALVE POSITION INDICATOR	21-64-11		1		Jan 21/2005	ALL
<b><u>CABIN (ZONE) TEMPERATURE INDICATION SYSTEM</u></b>						
CABIN ZONE TEMPERATURE INDICATION	21-65-11		1		Jan 21/2005	ALL
ZONE DUCT TEMPERATURE AND INDICATION	21-65-12		1		Jan 21/2005	001-099
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21-51-23	AIR CONDITIONING RIGHT PACK TEMPERATURE CONTROL - STANDBY
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21-58-15	EQUIPMENT COOLING - AUXILIARY FAN
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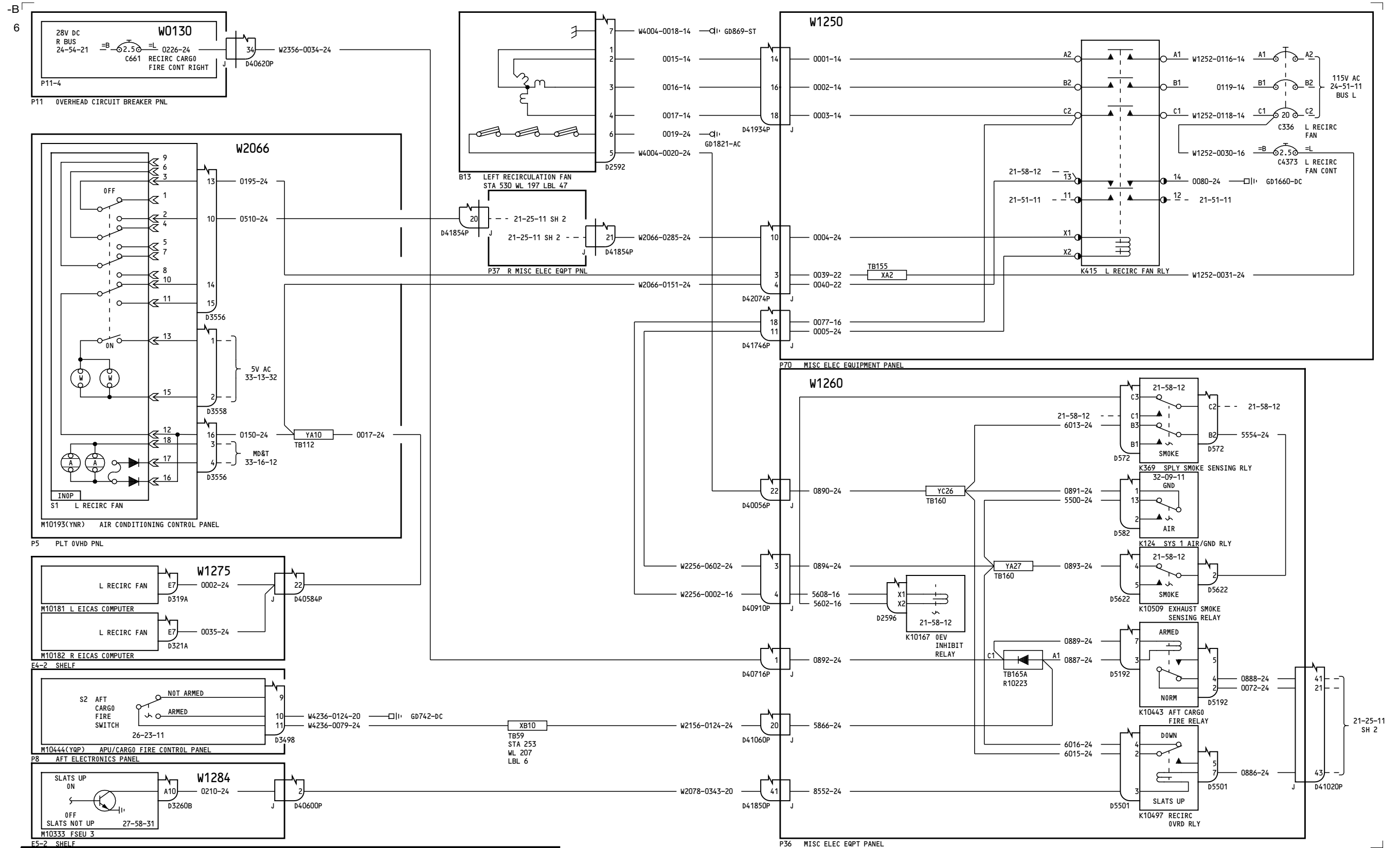
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21-45-11	SUPPLEMENTARY HEATERS - CAPTAINS AND FIRST OFFICERS
21-61-31	TEMPERATURE CONTROL - AFT PASSENGER ZONE
21-61-11	TEMPERATURE CONTROL - FLIGHT DECK ZONE
21-61-21	TEMPERATURE CONTROL - FORWARD PASSENGER ZONE
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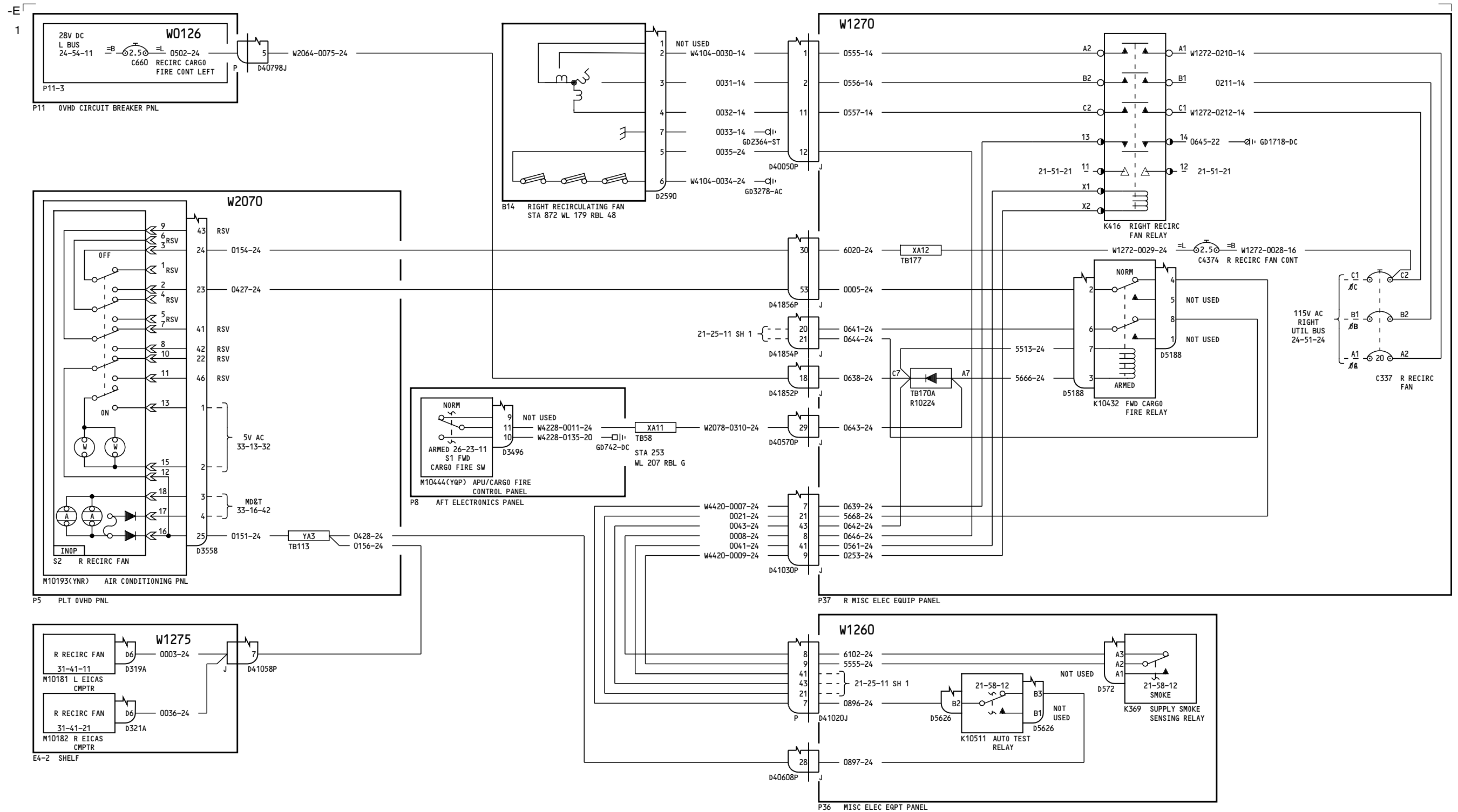
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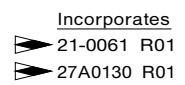
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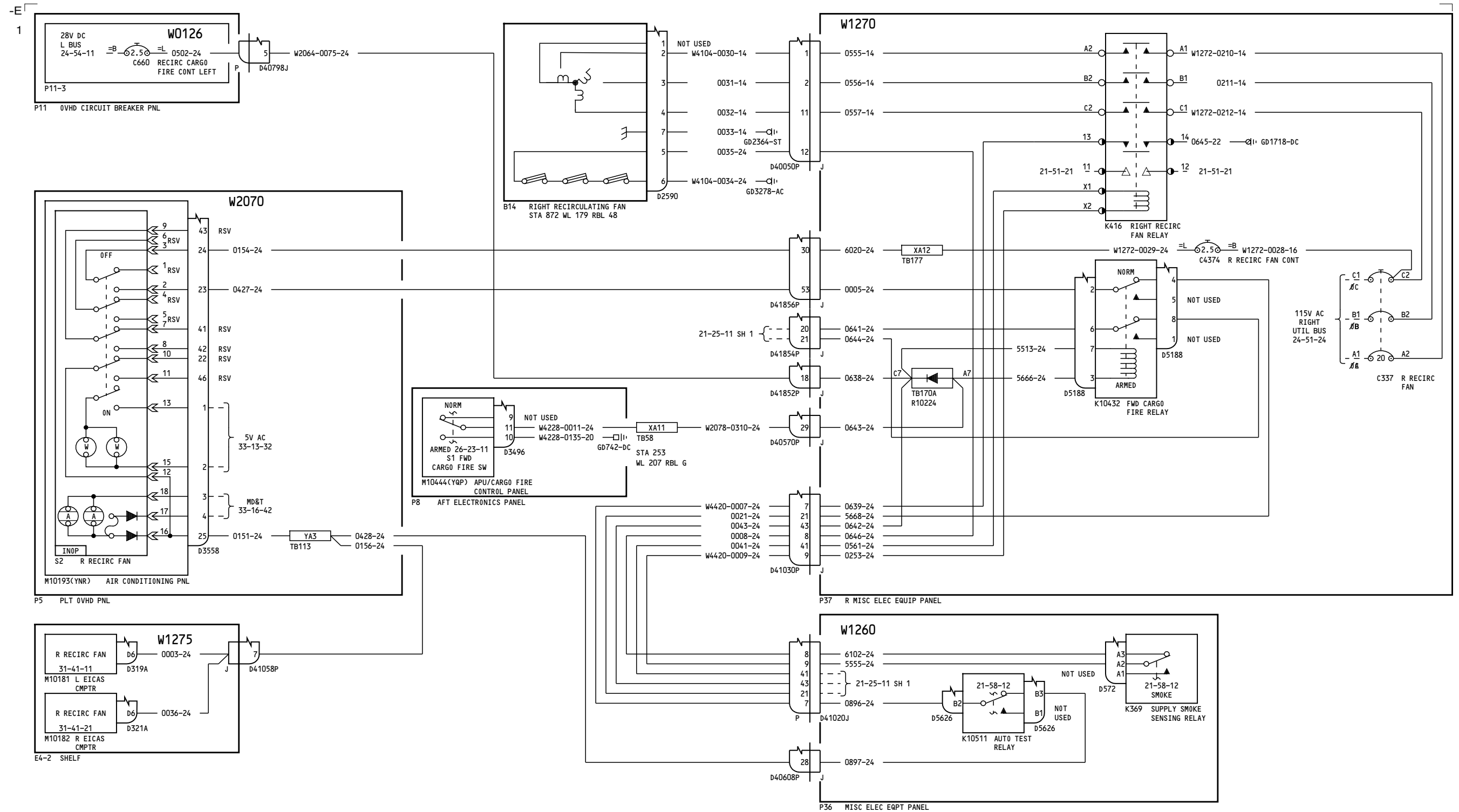
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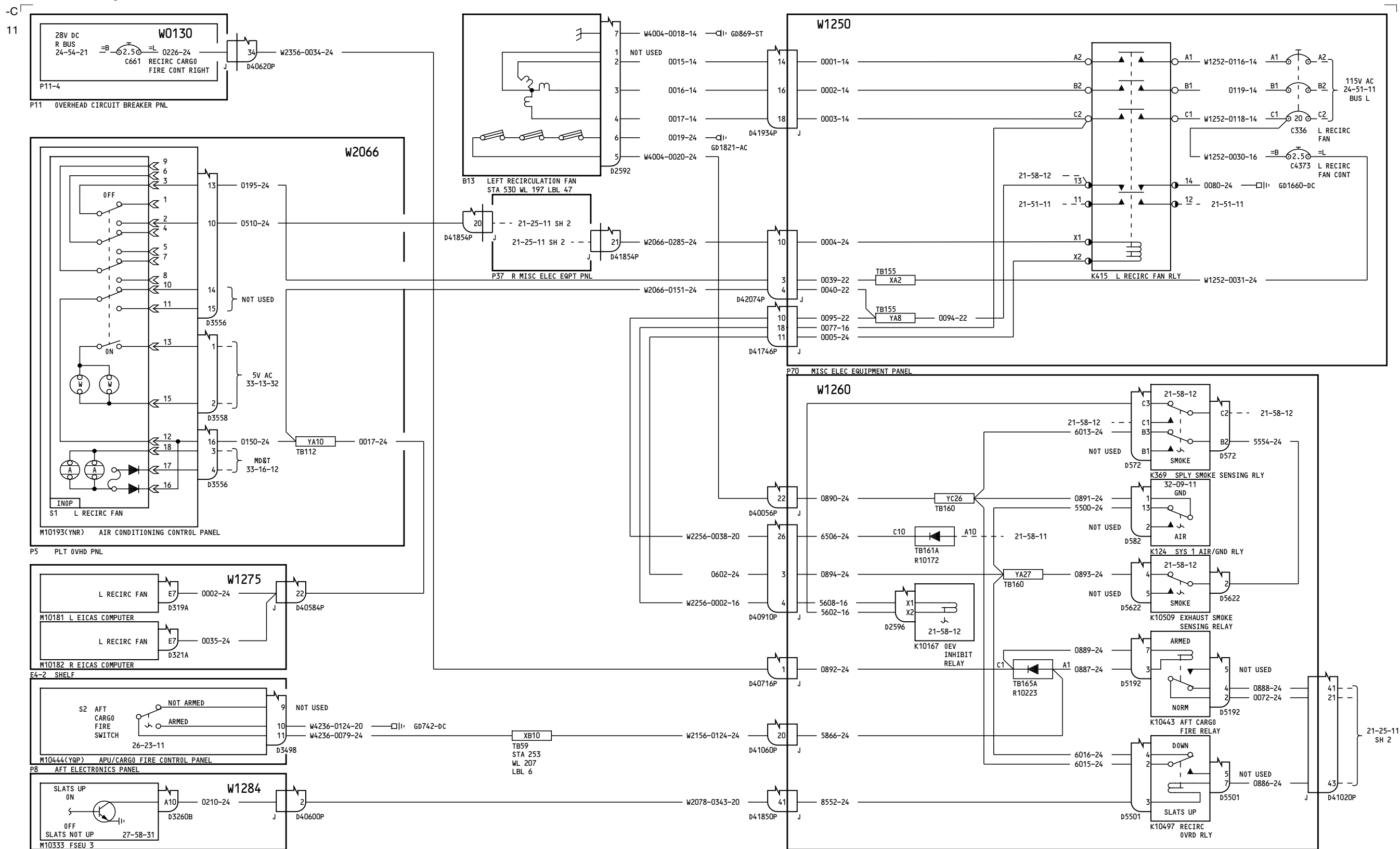
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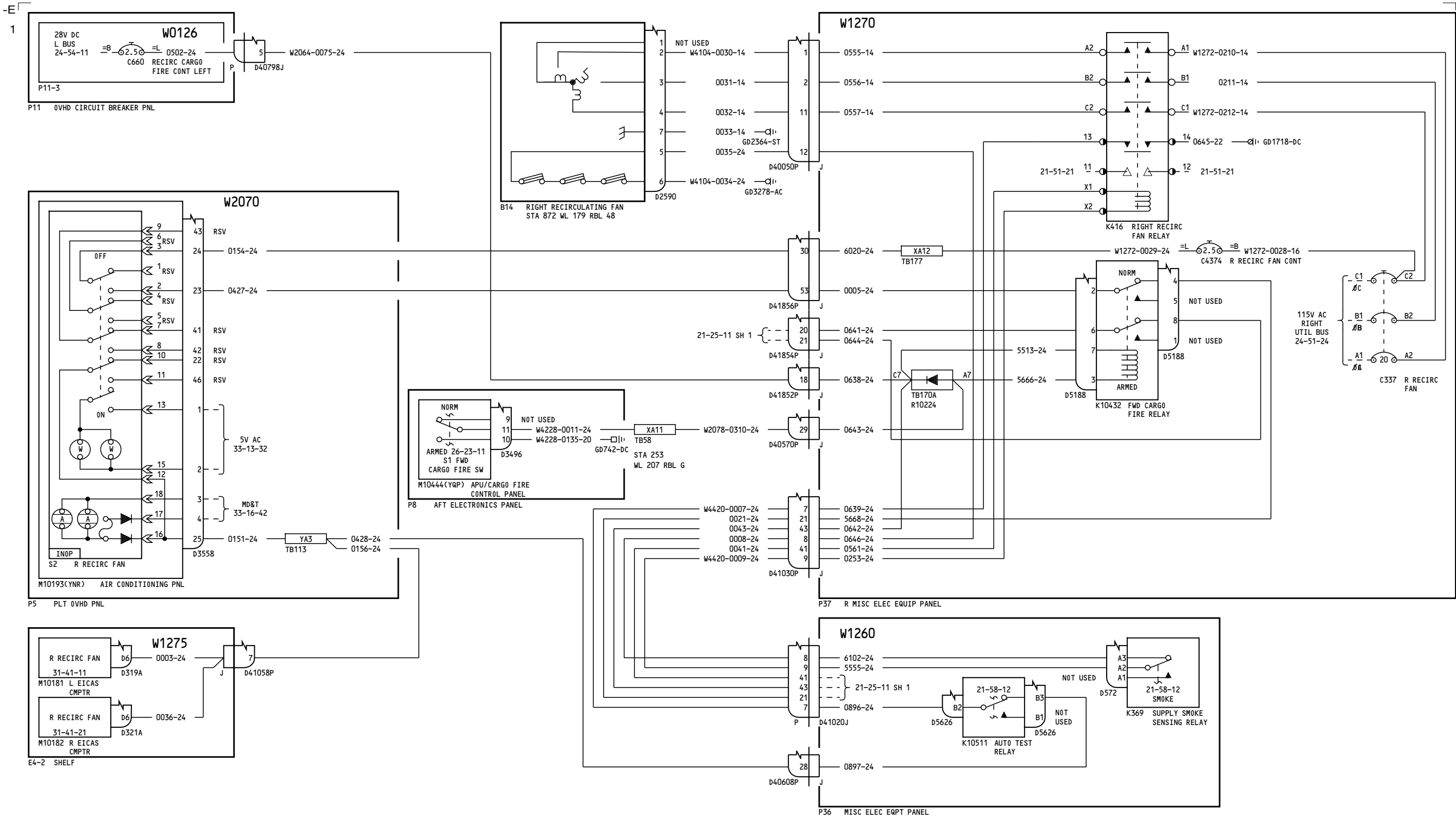


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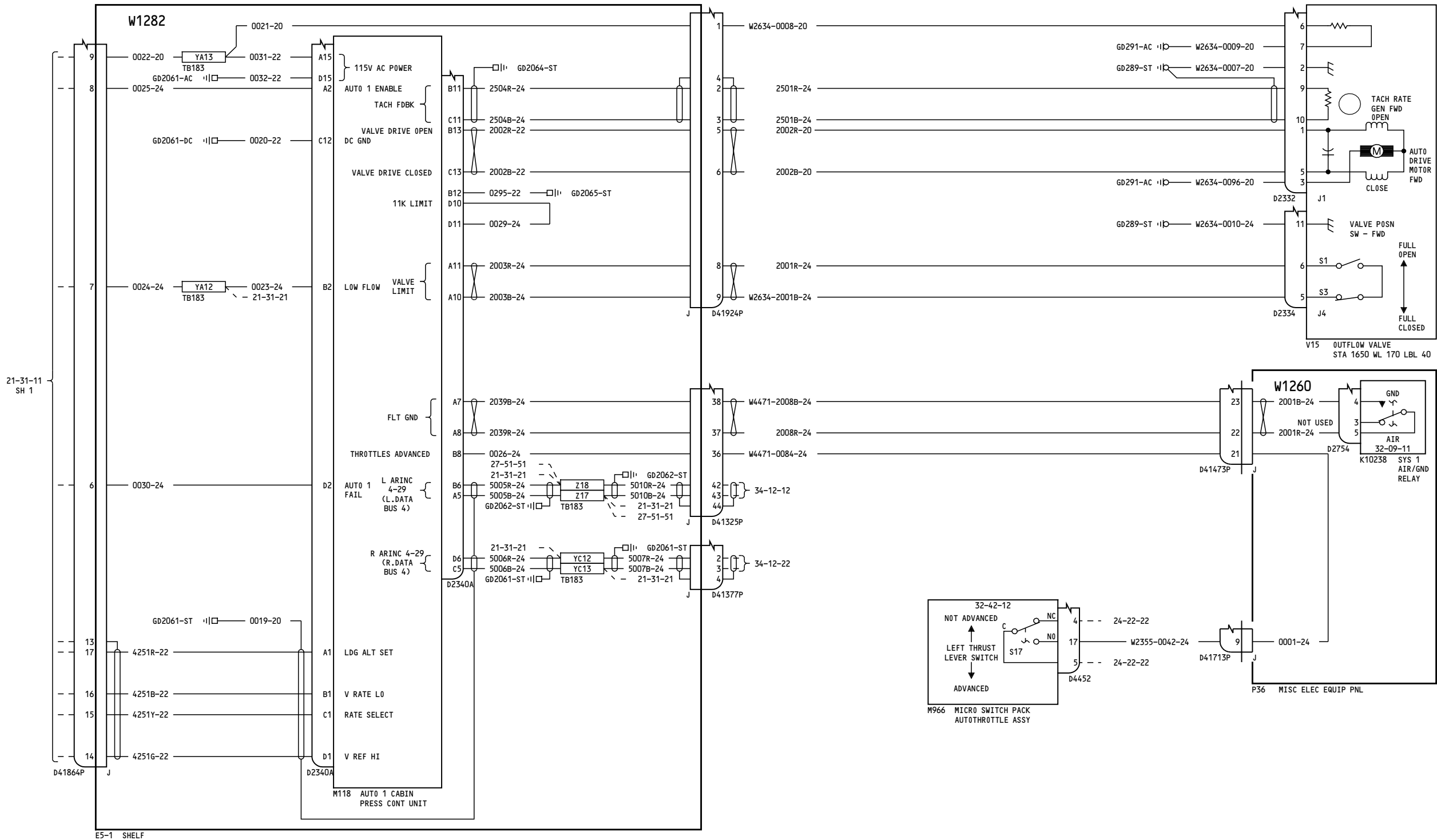
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CABIN PRESSURE SYSTEM -  
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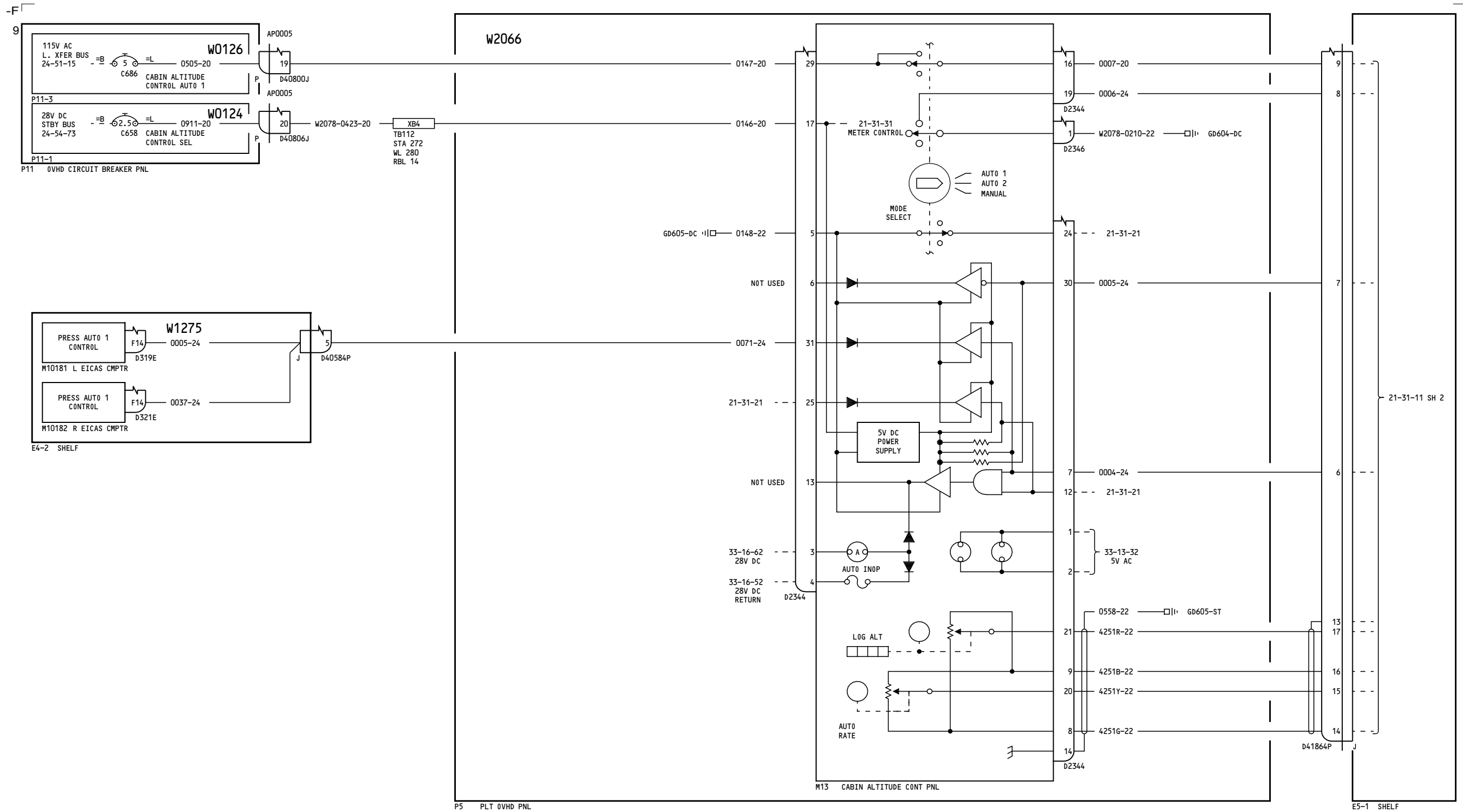
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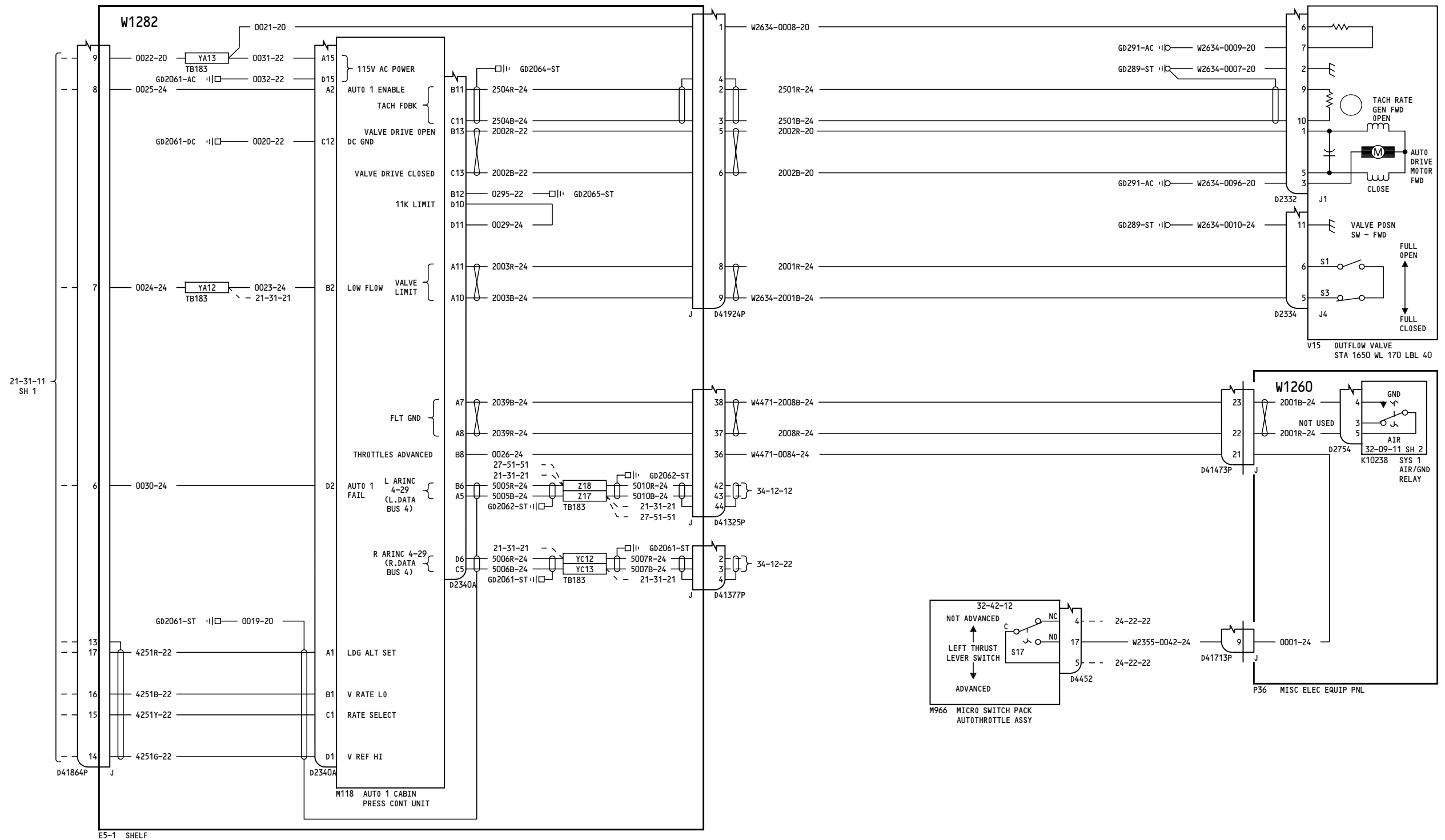
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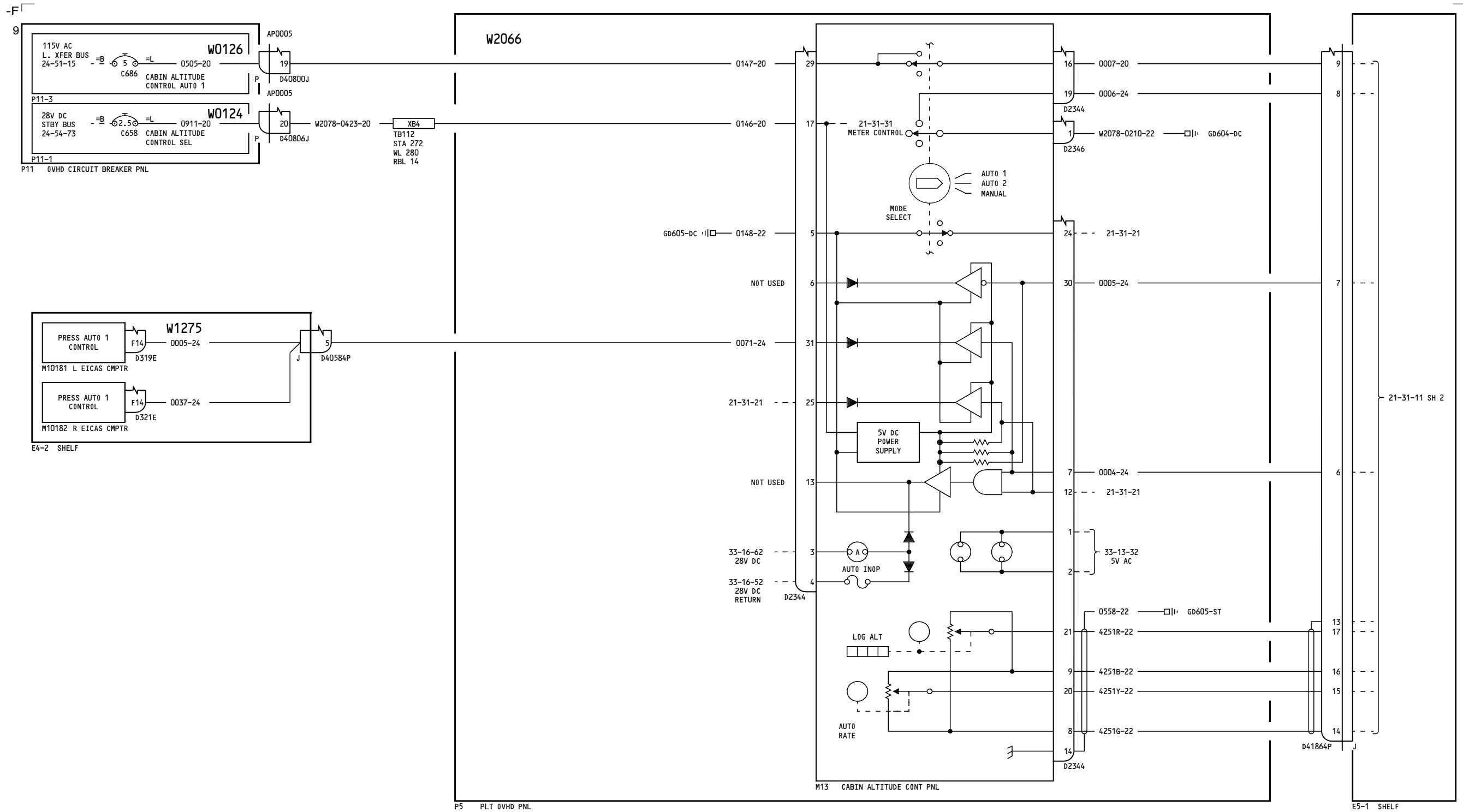
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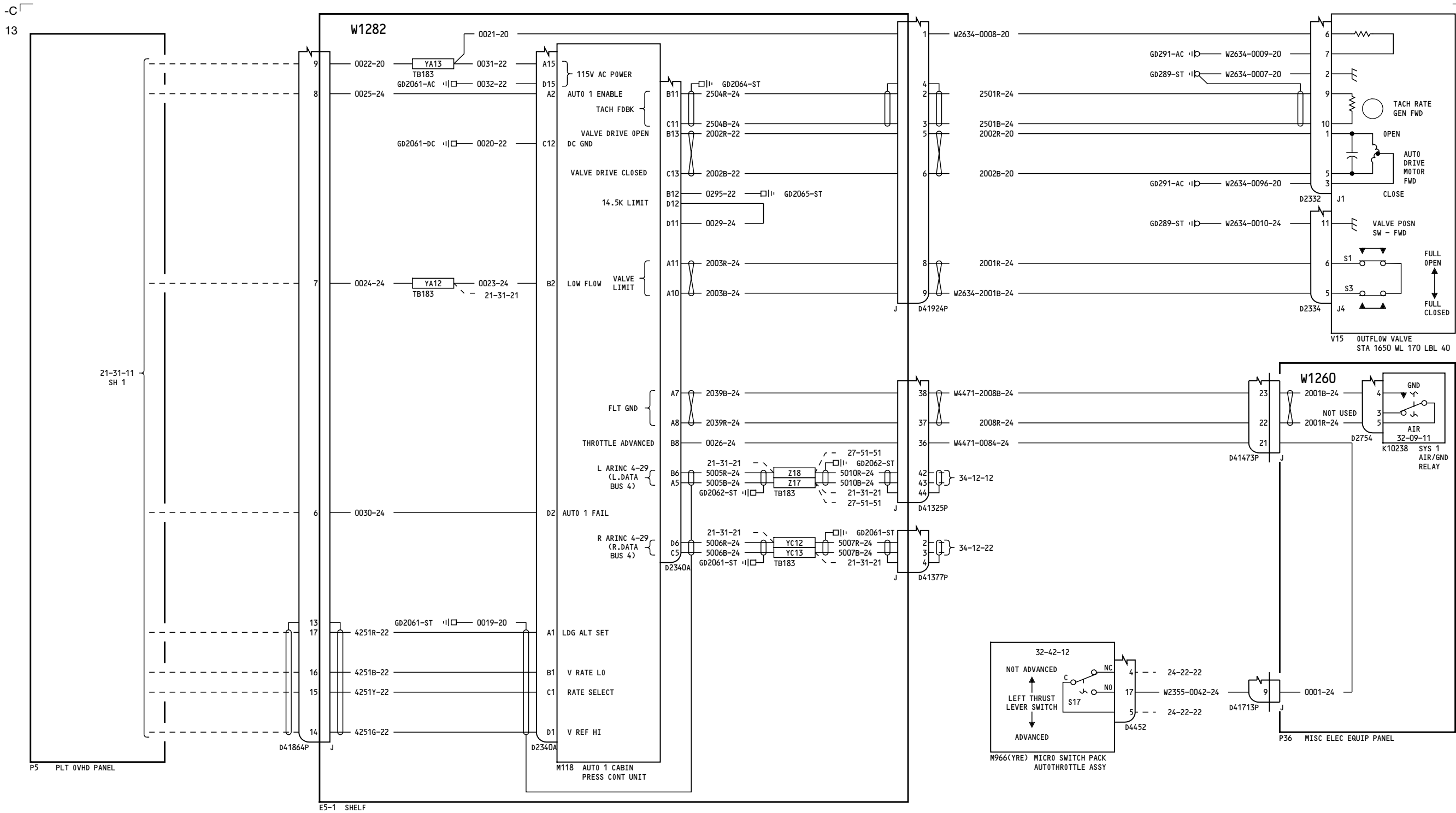
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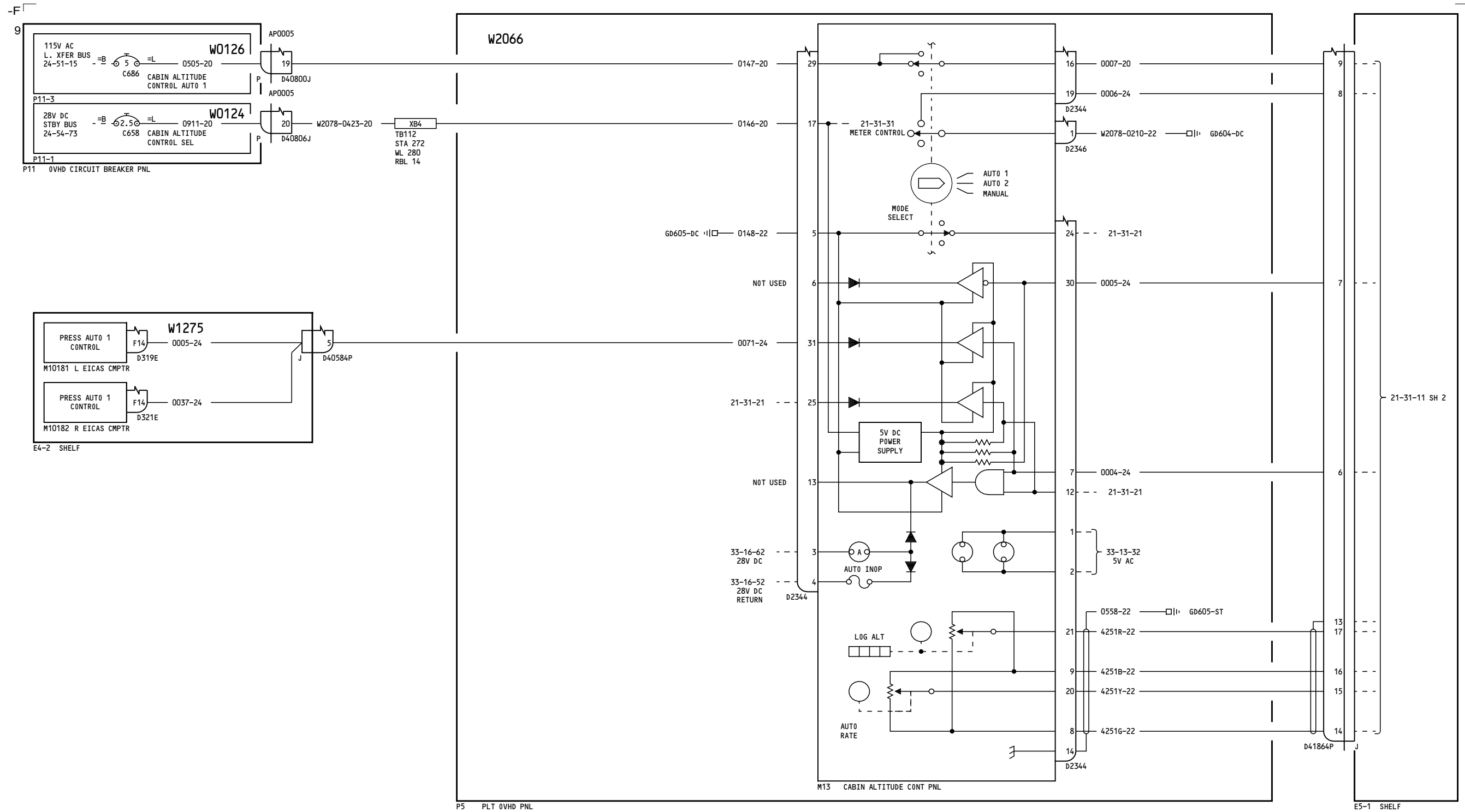
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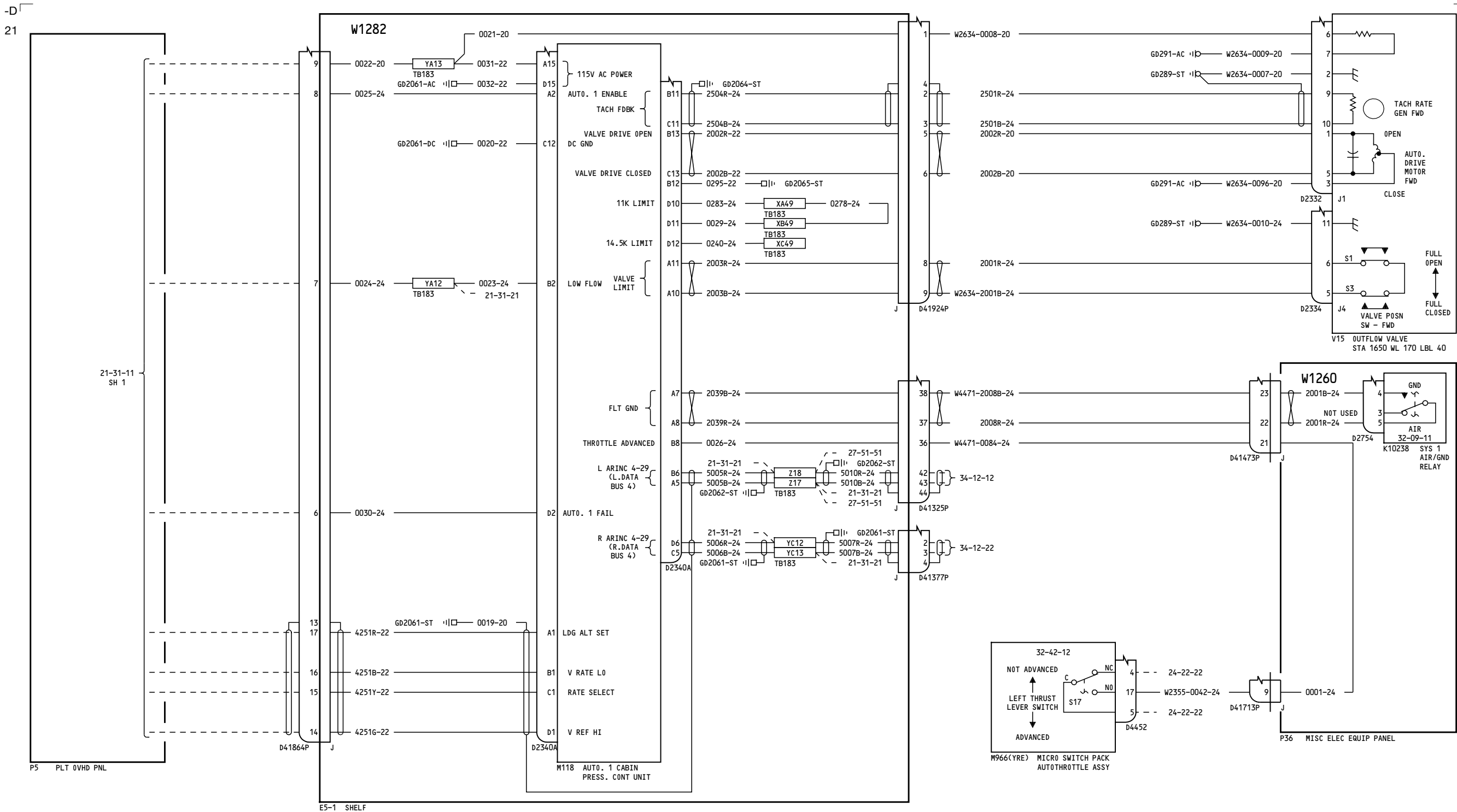
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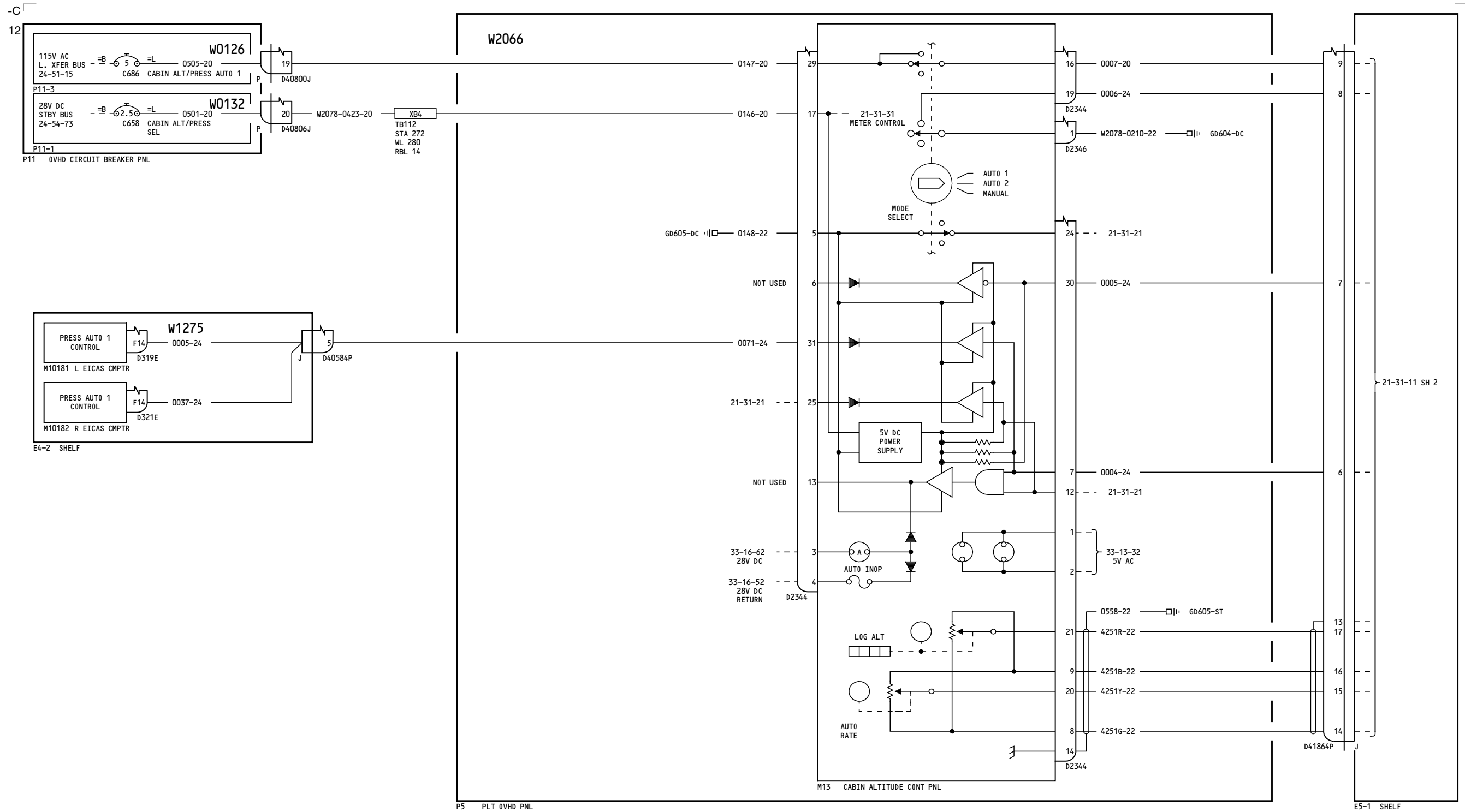
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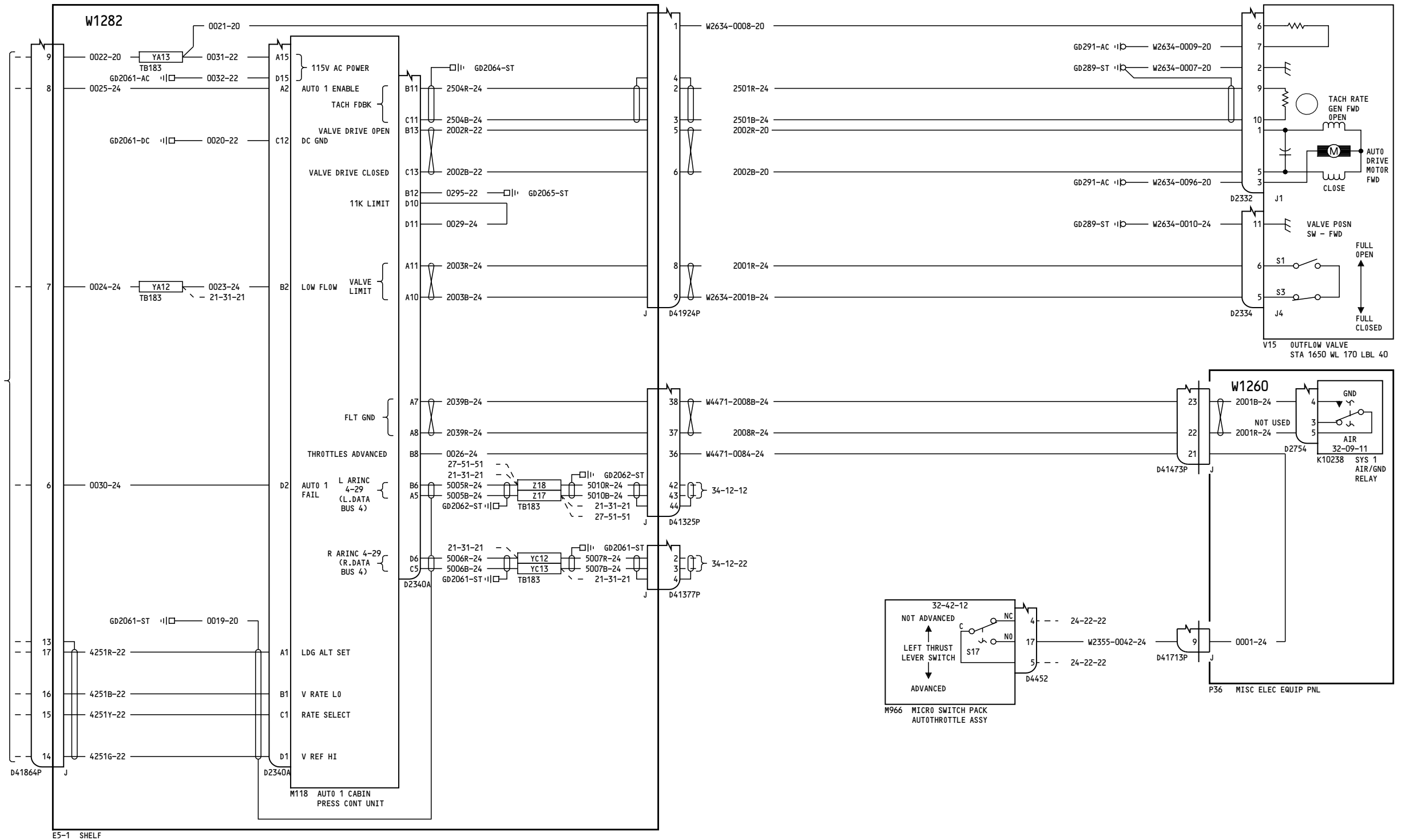






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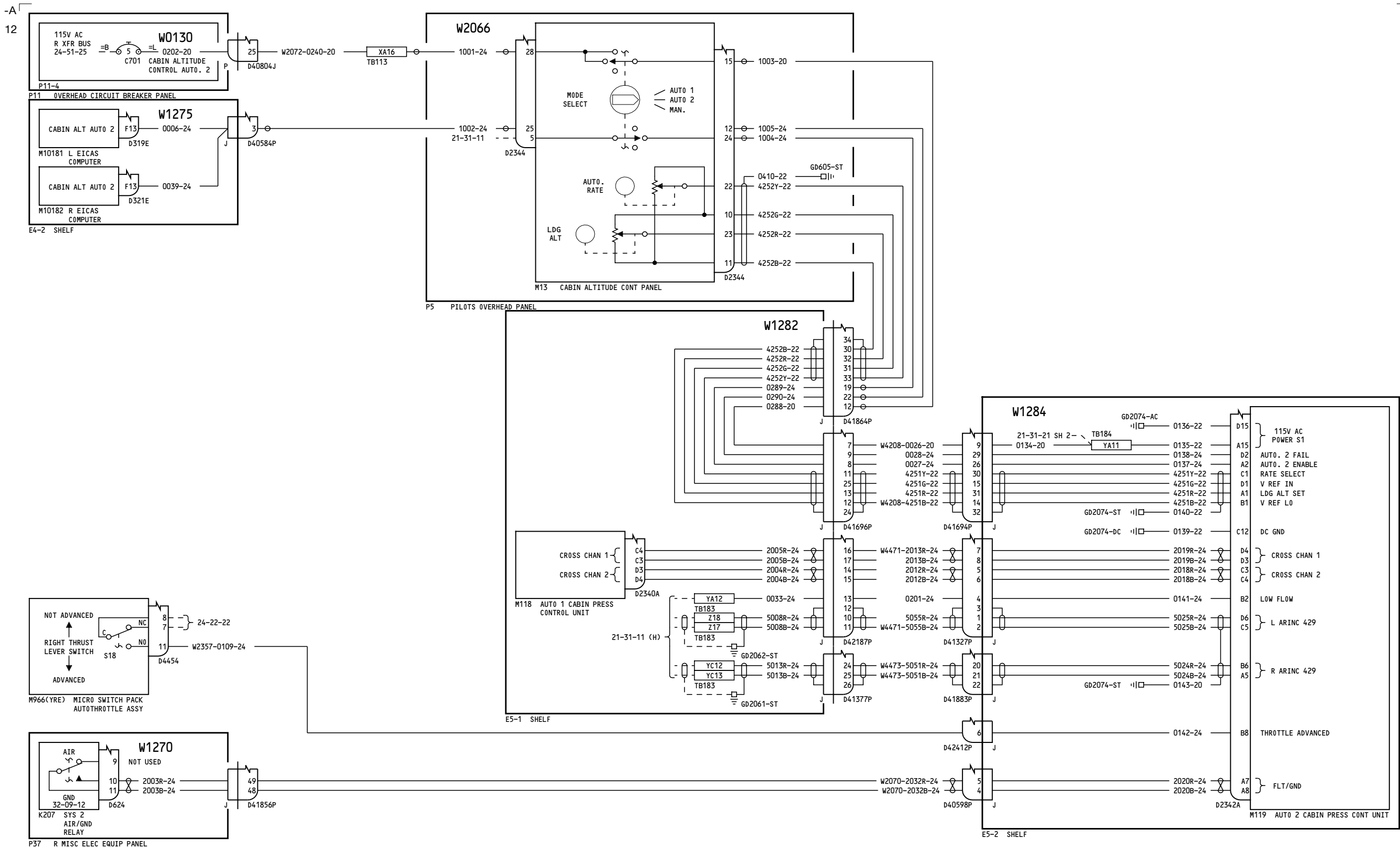
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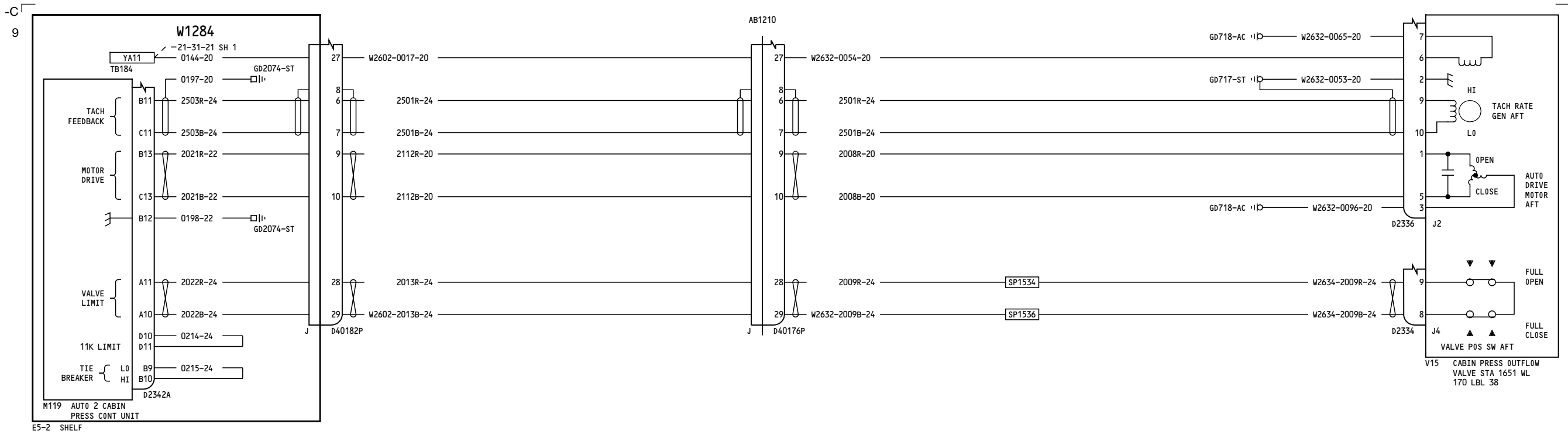
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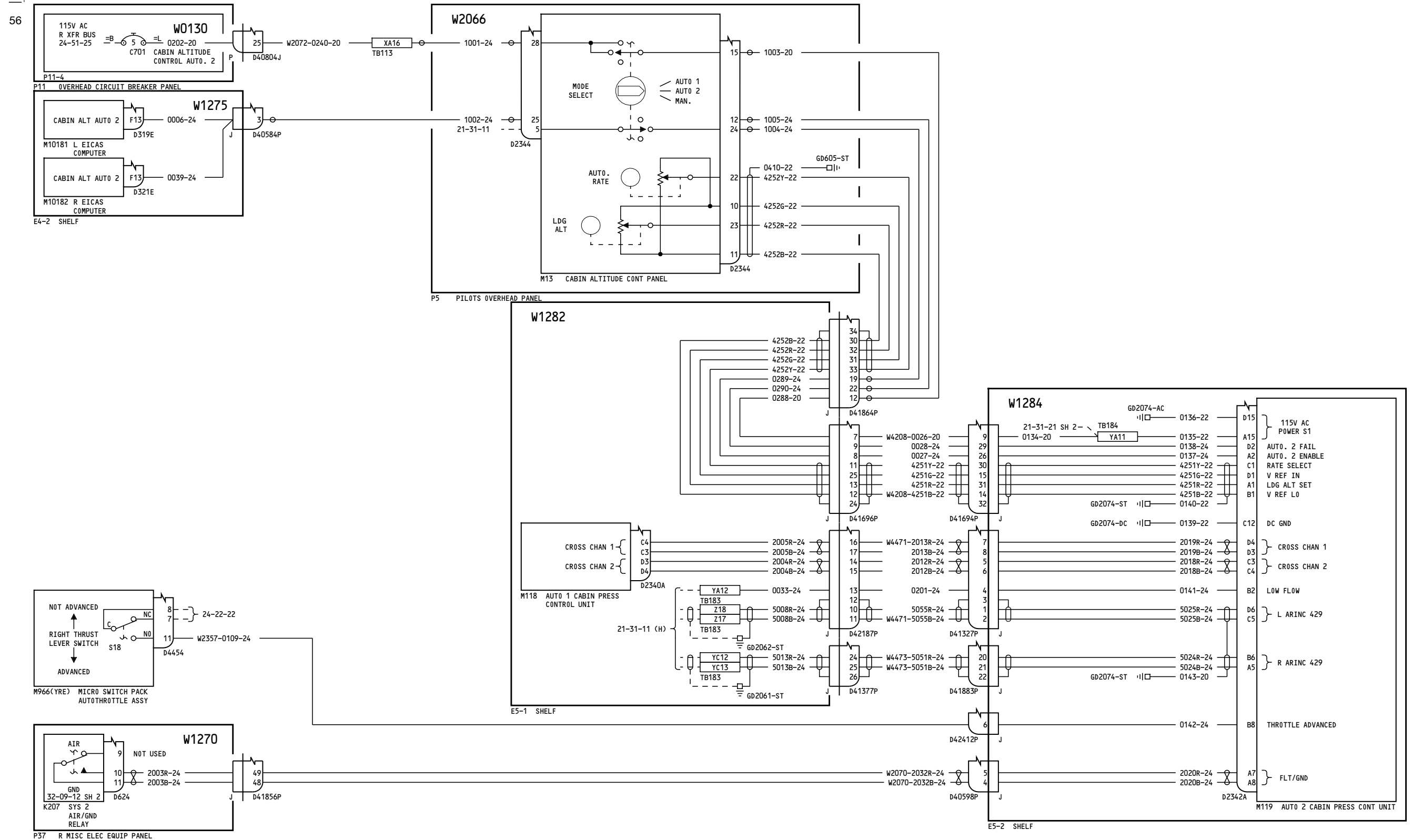
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## CABIN PRESSURE SYSTEM - AUTO 2

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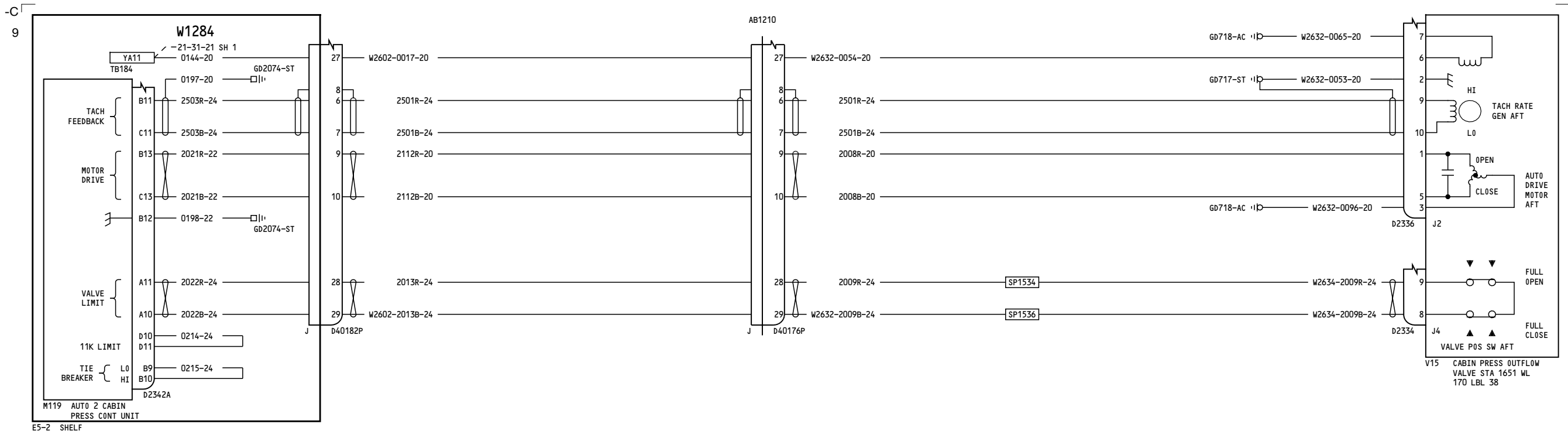
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**CABIN PRESSURE SYSTEM -  
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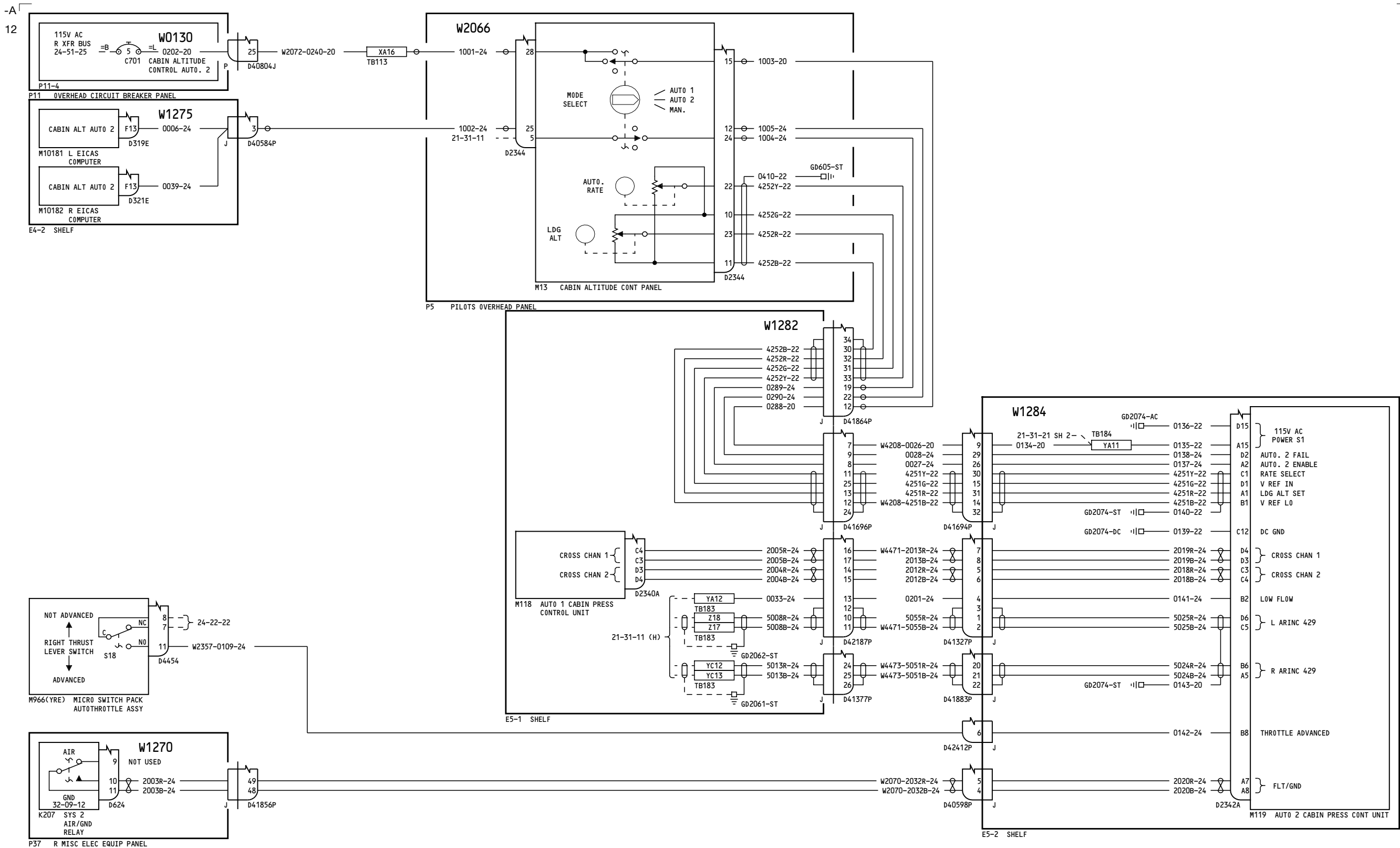
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CABIN PRESSURE SYSTEM -  
AUTO 2

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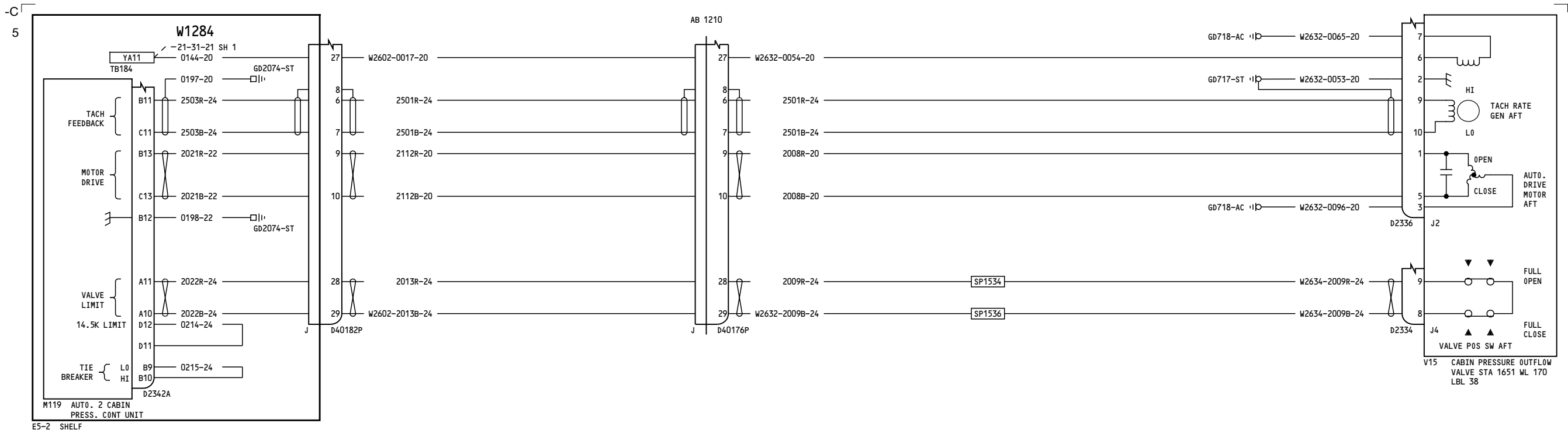
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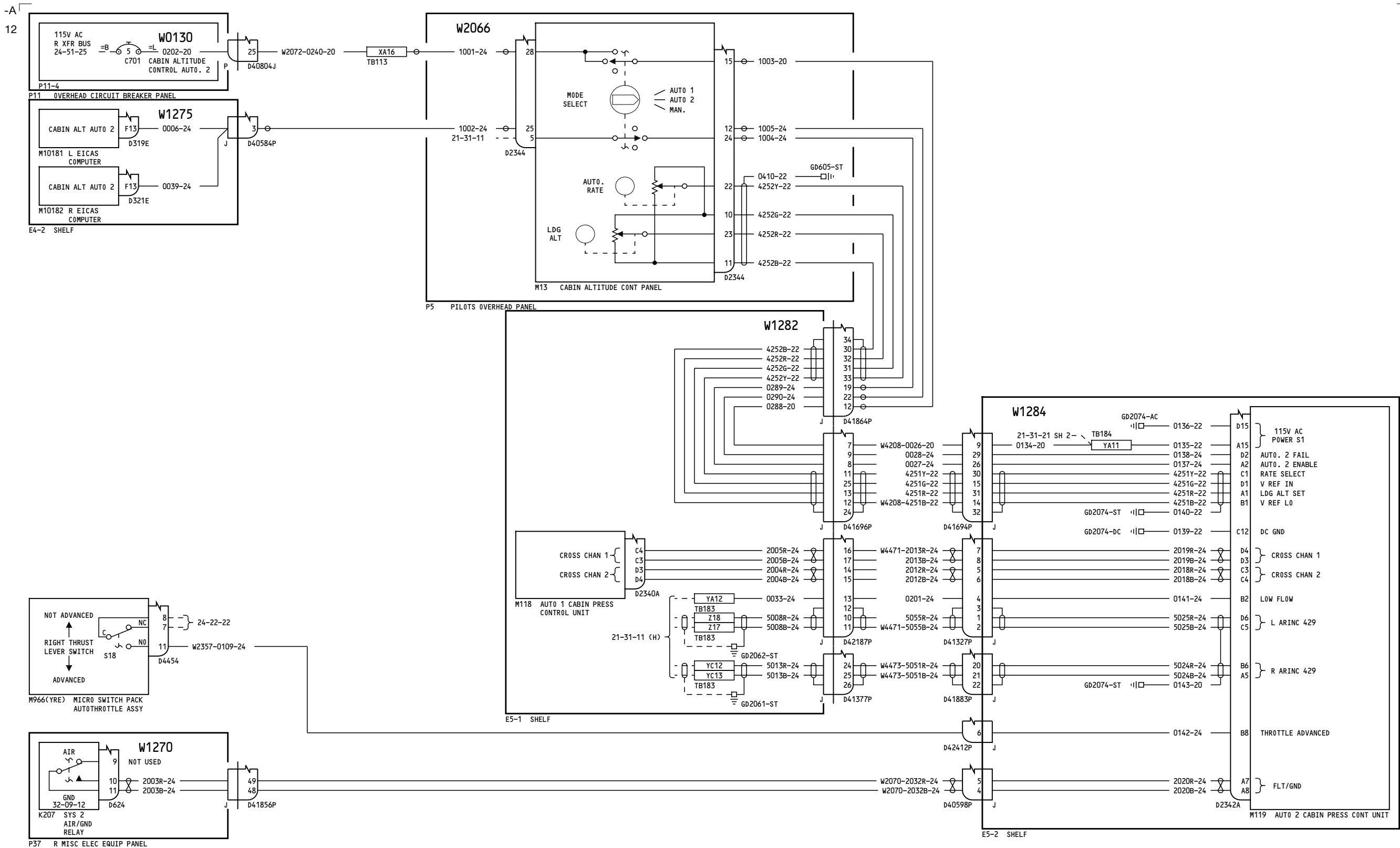
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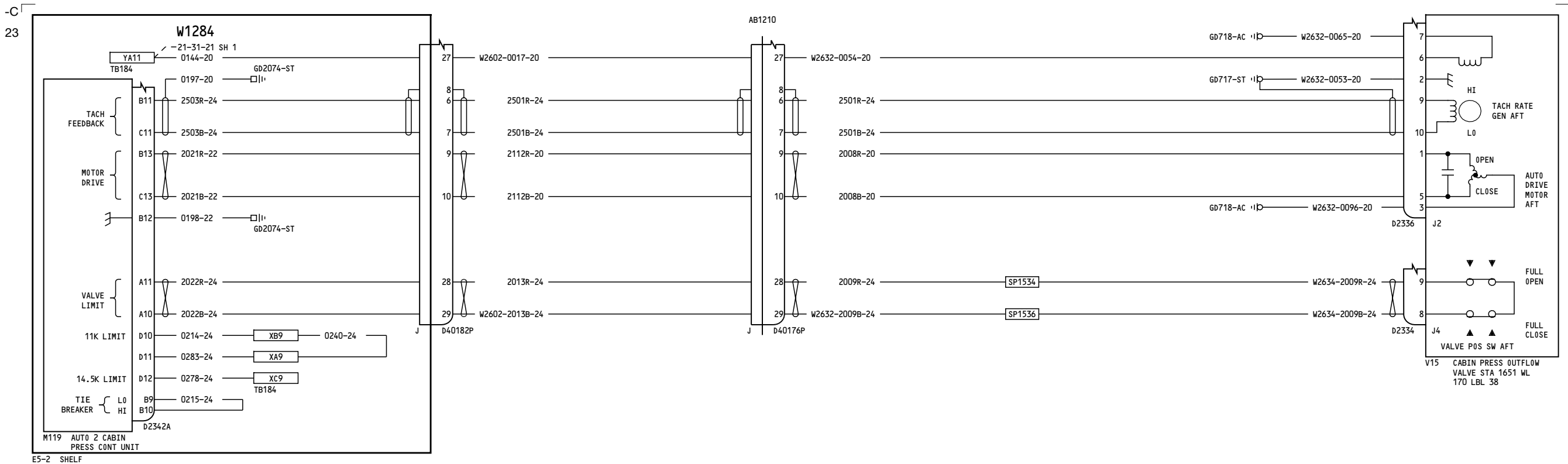


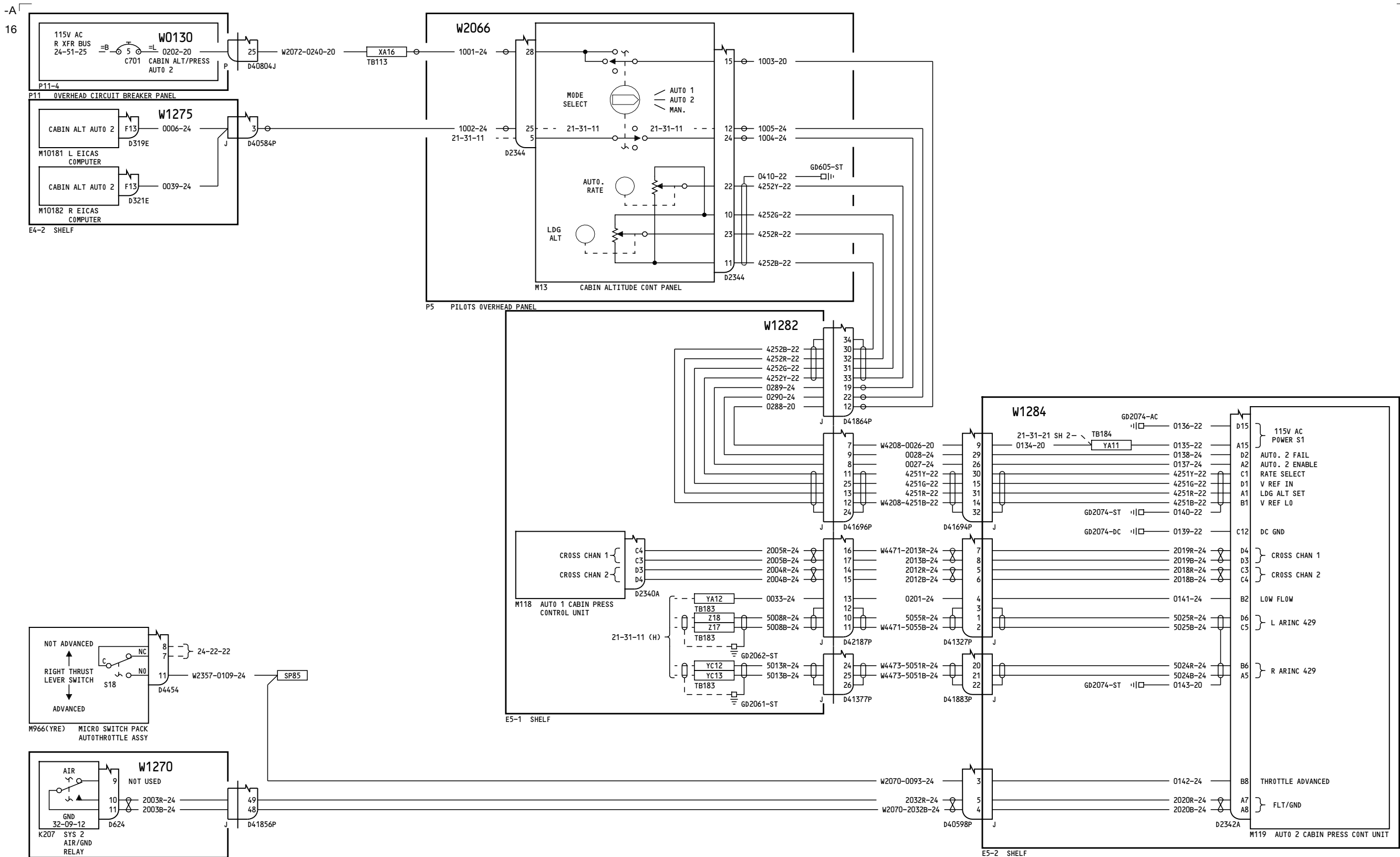
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CABIN PRESSURE SYSTEM -  
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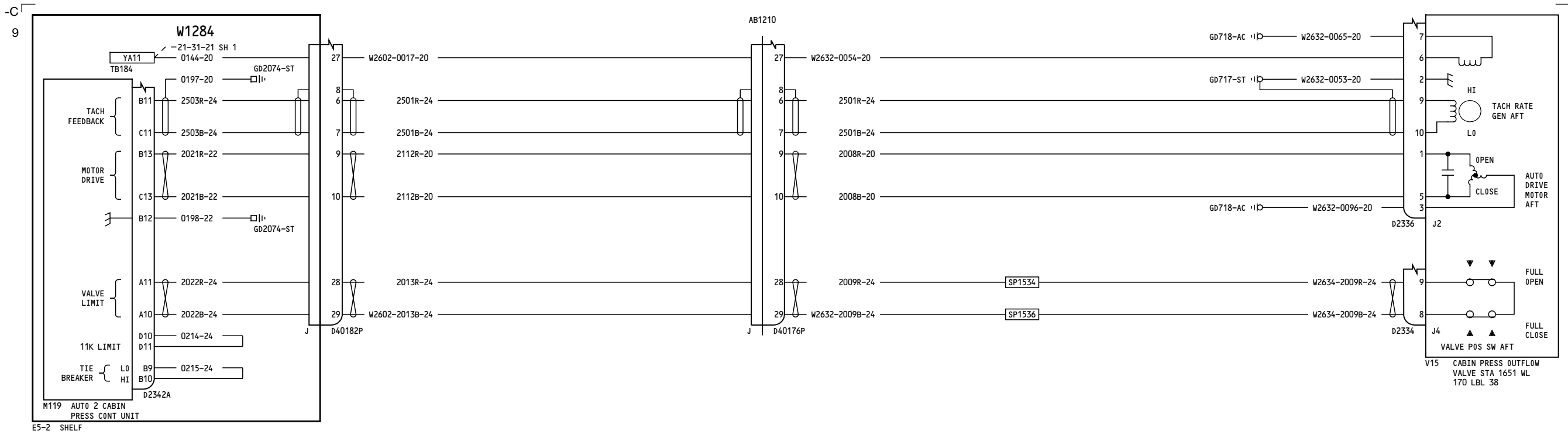
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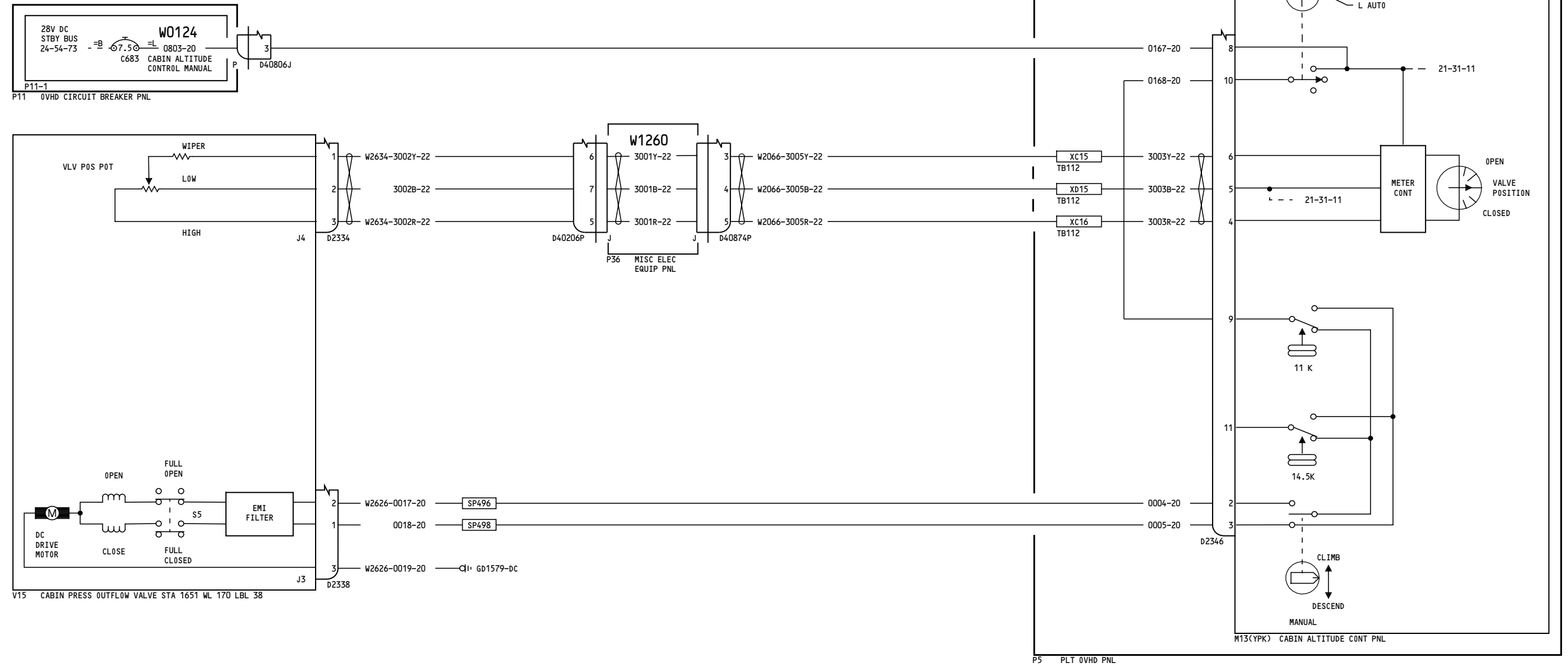
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$$\frac{-B \pm \sqrt{B^2 - 4AC}}{2A}$$


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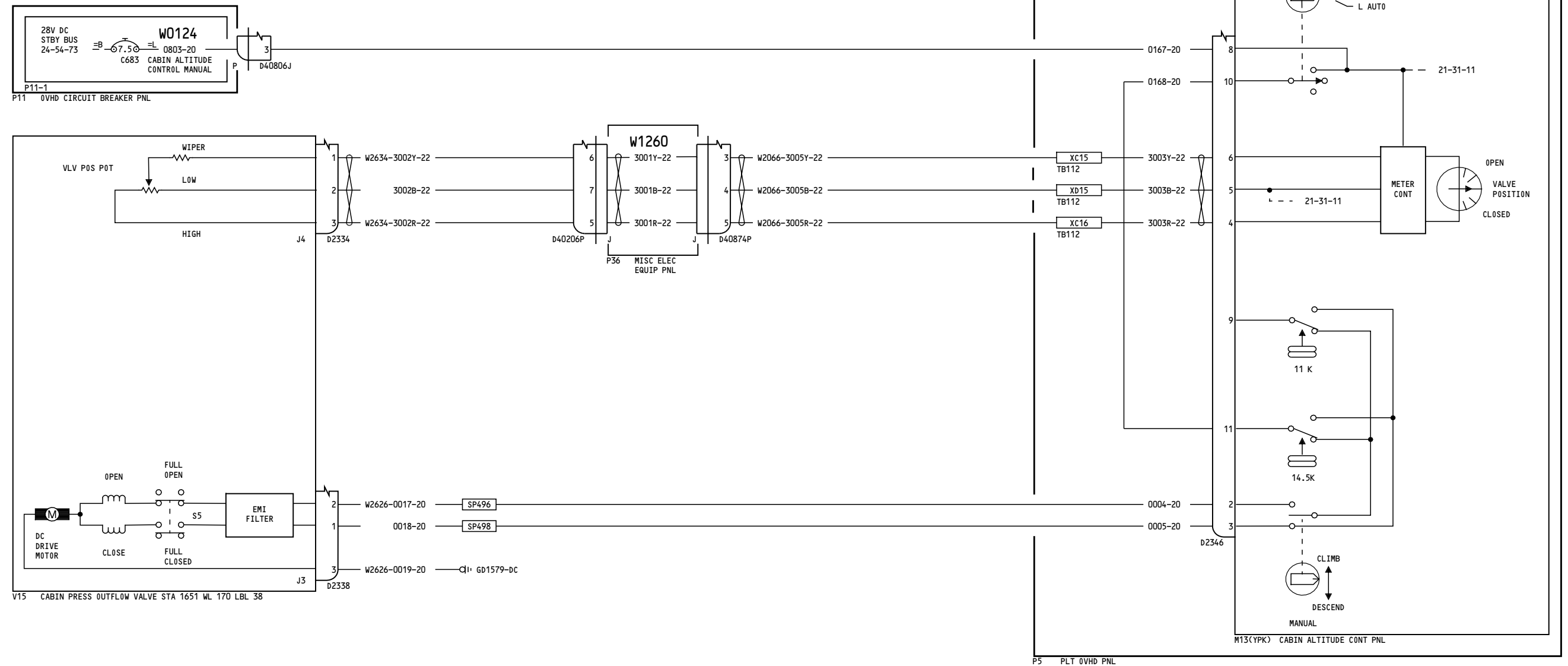
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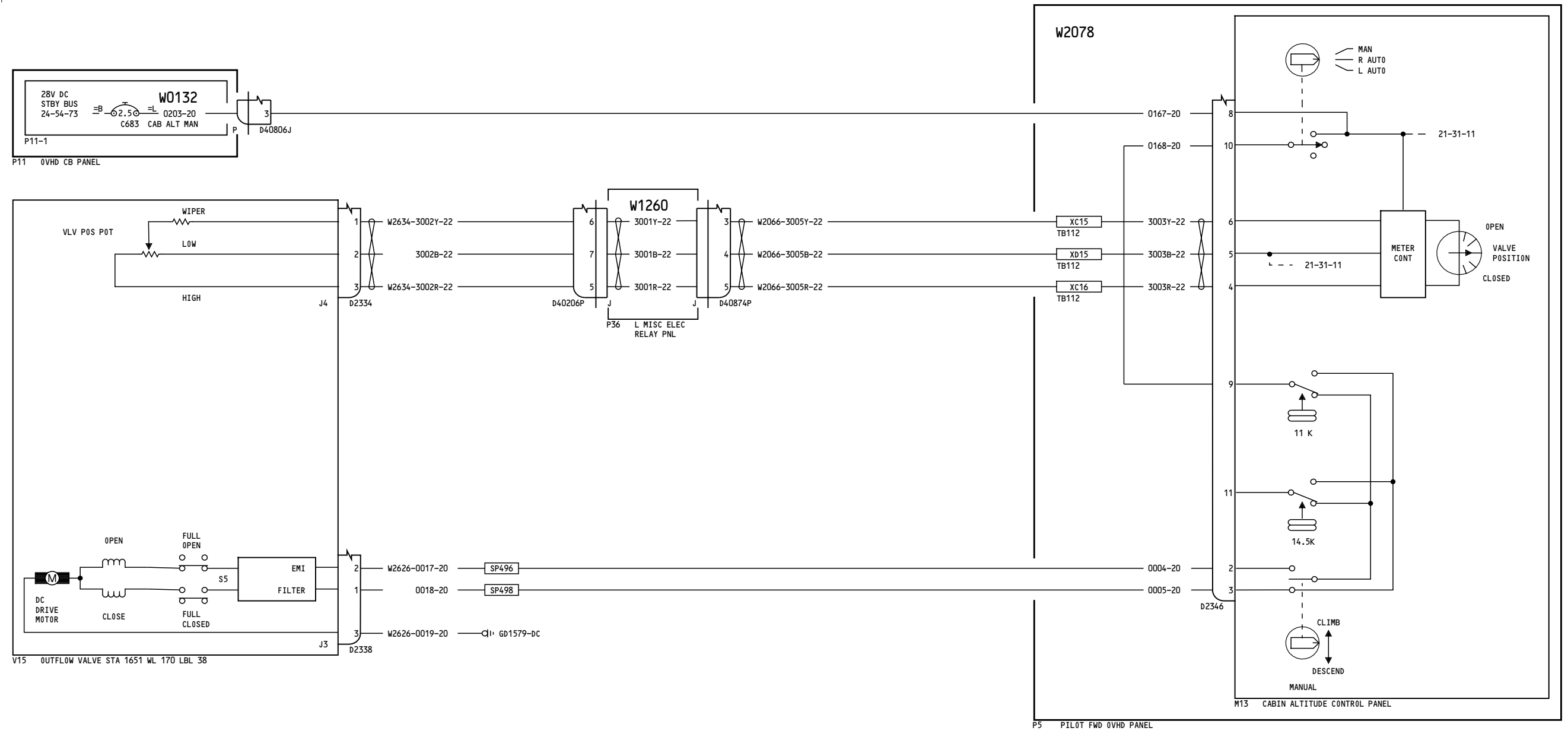
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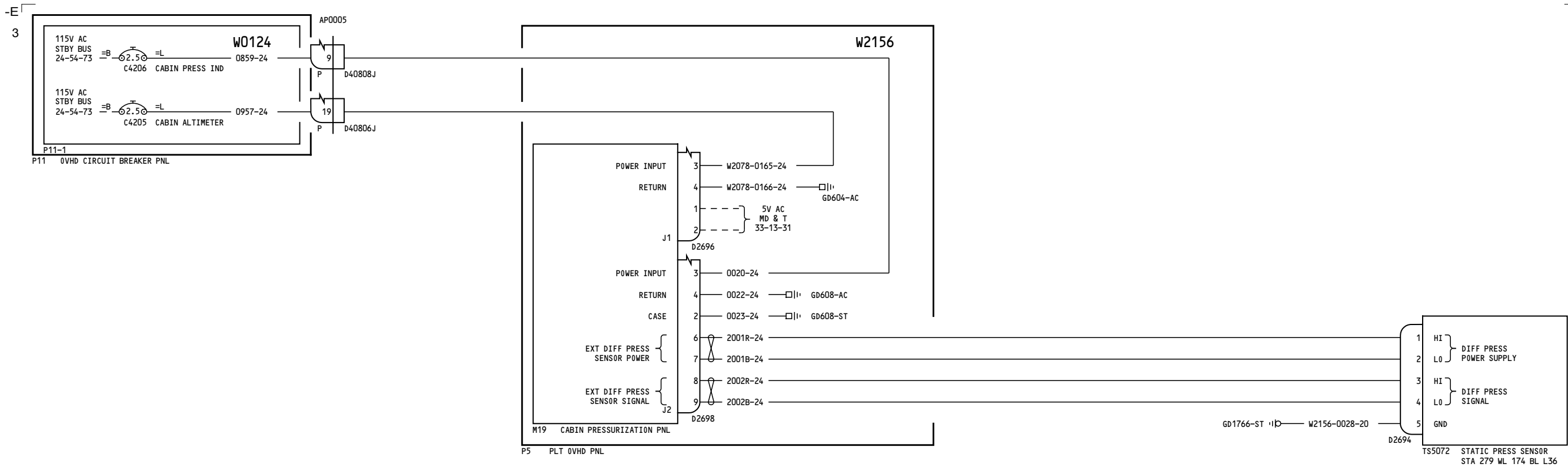
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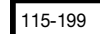
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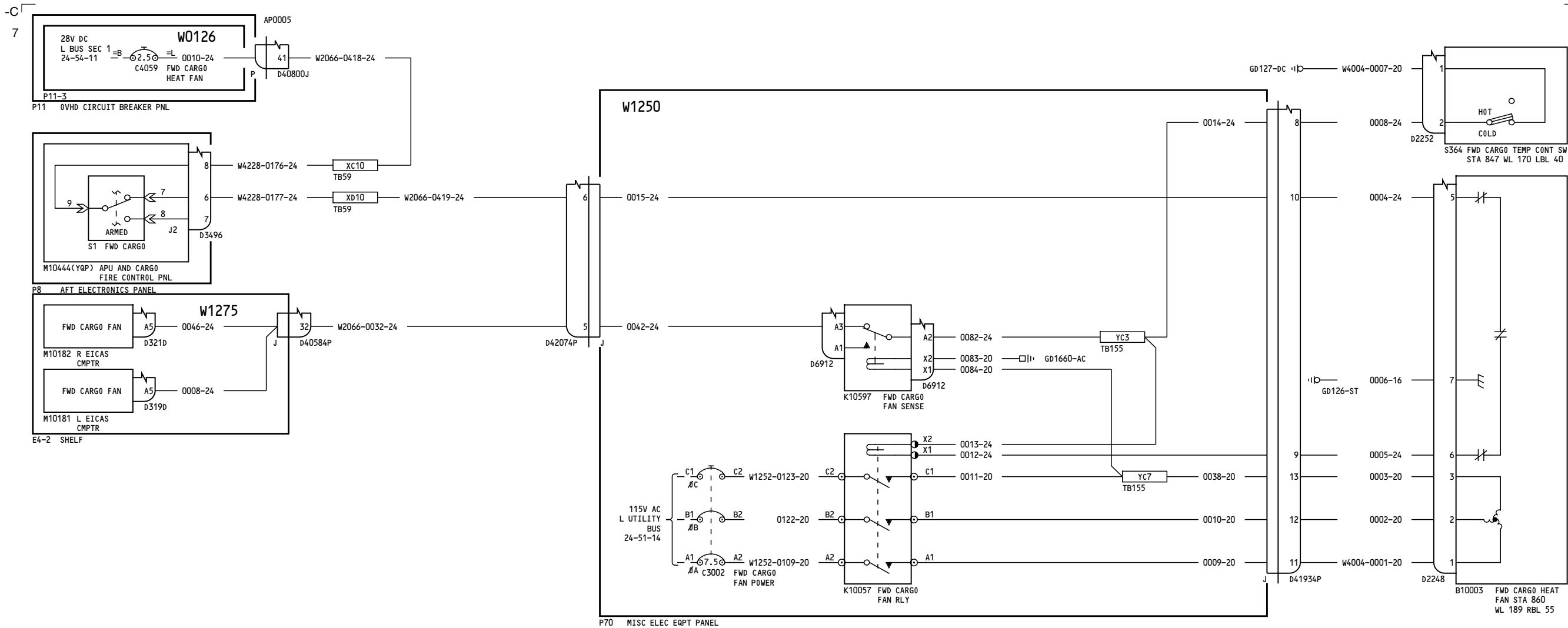
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FORWARD CARGO HEATING

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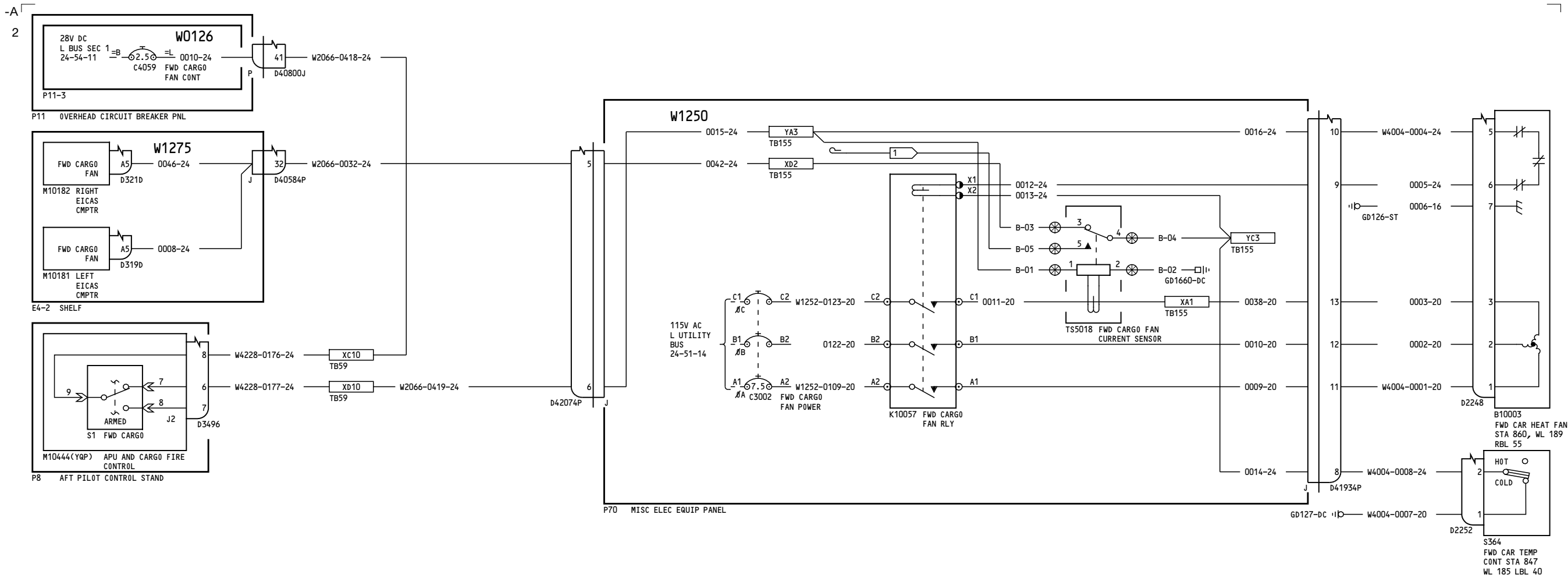
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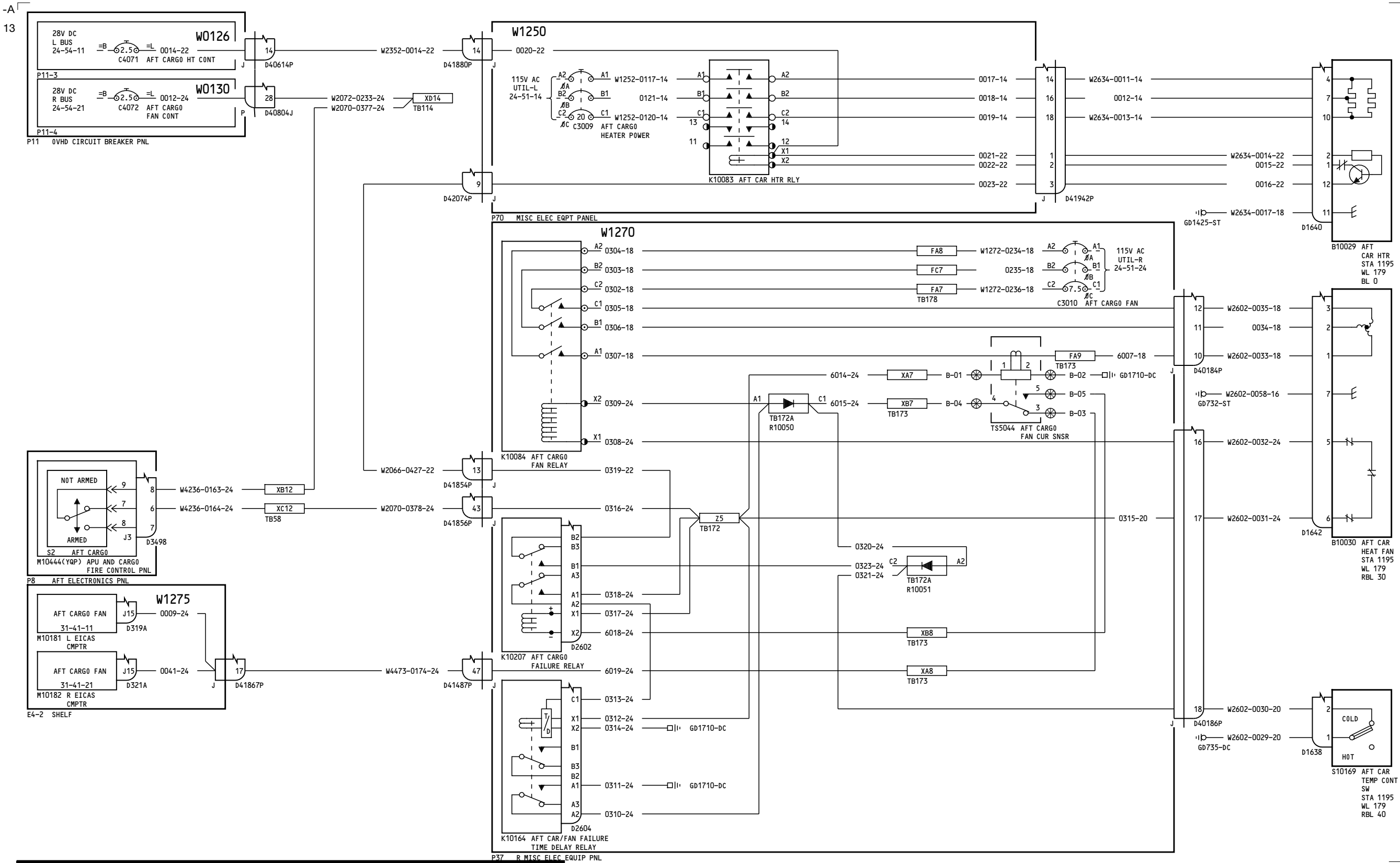
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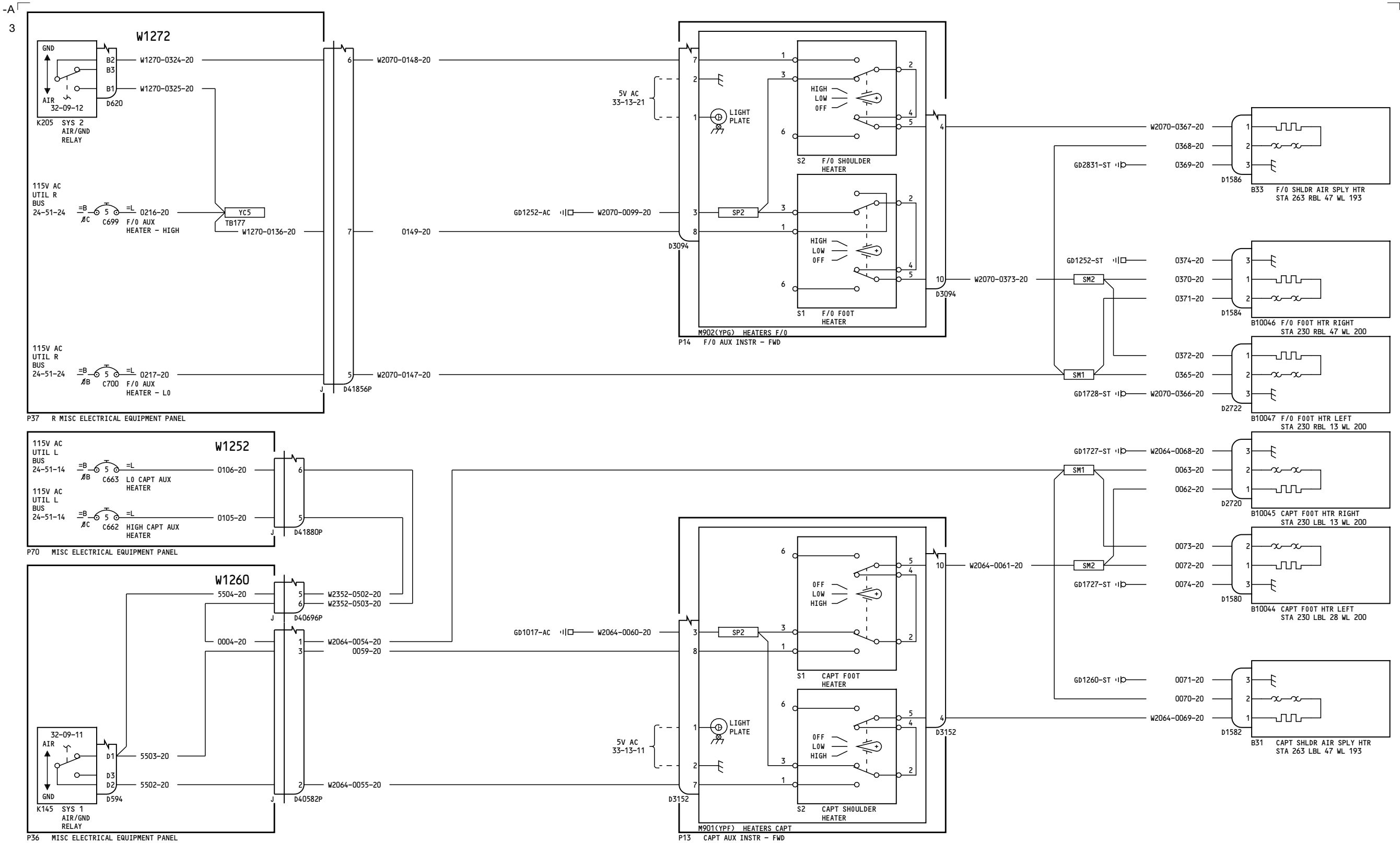
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CAPTAINS AND FIRST  
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OFFICERS**

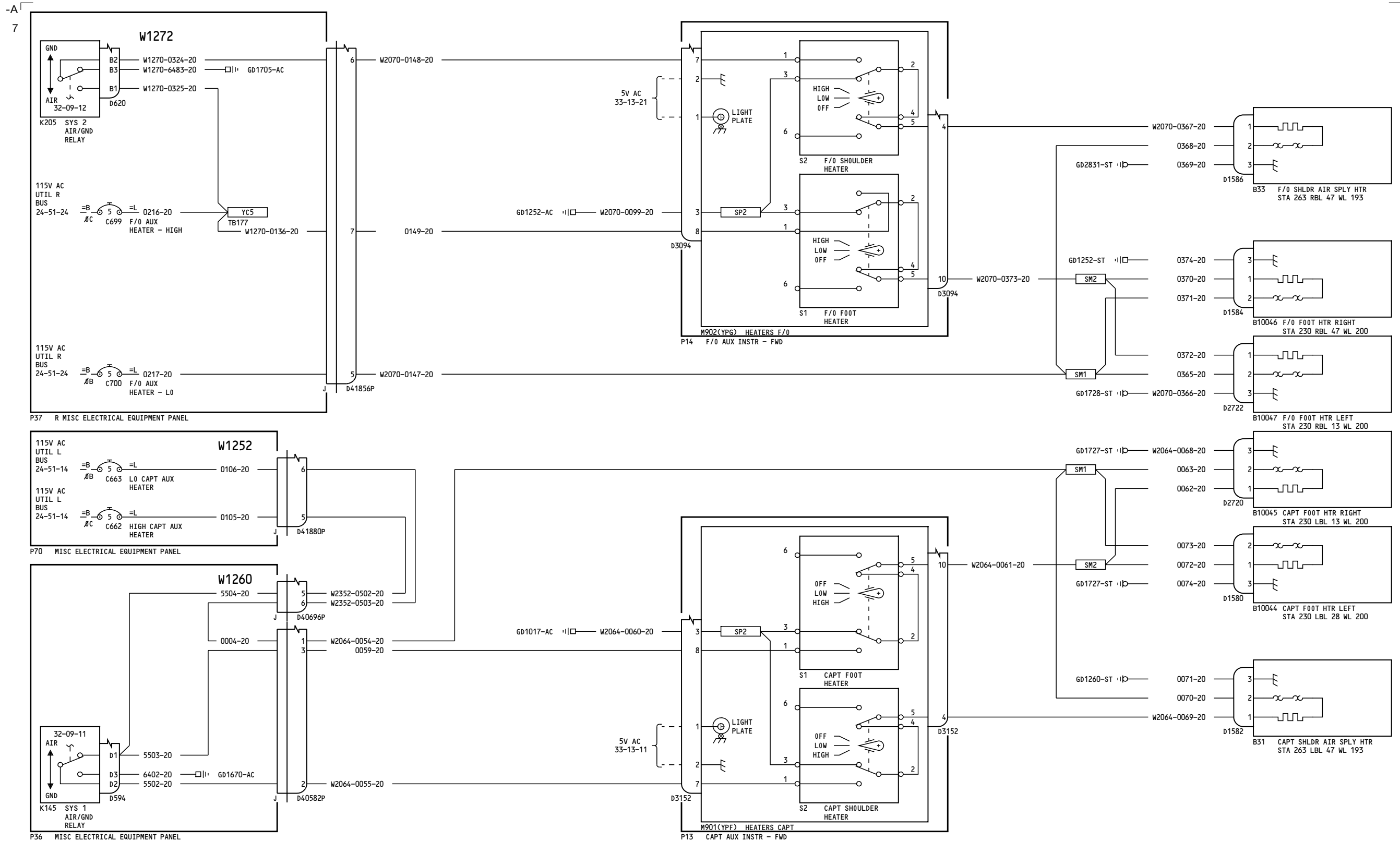
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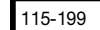
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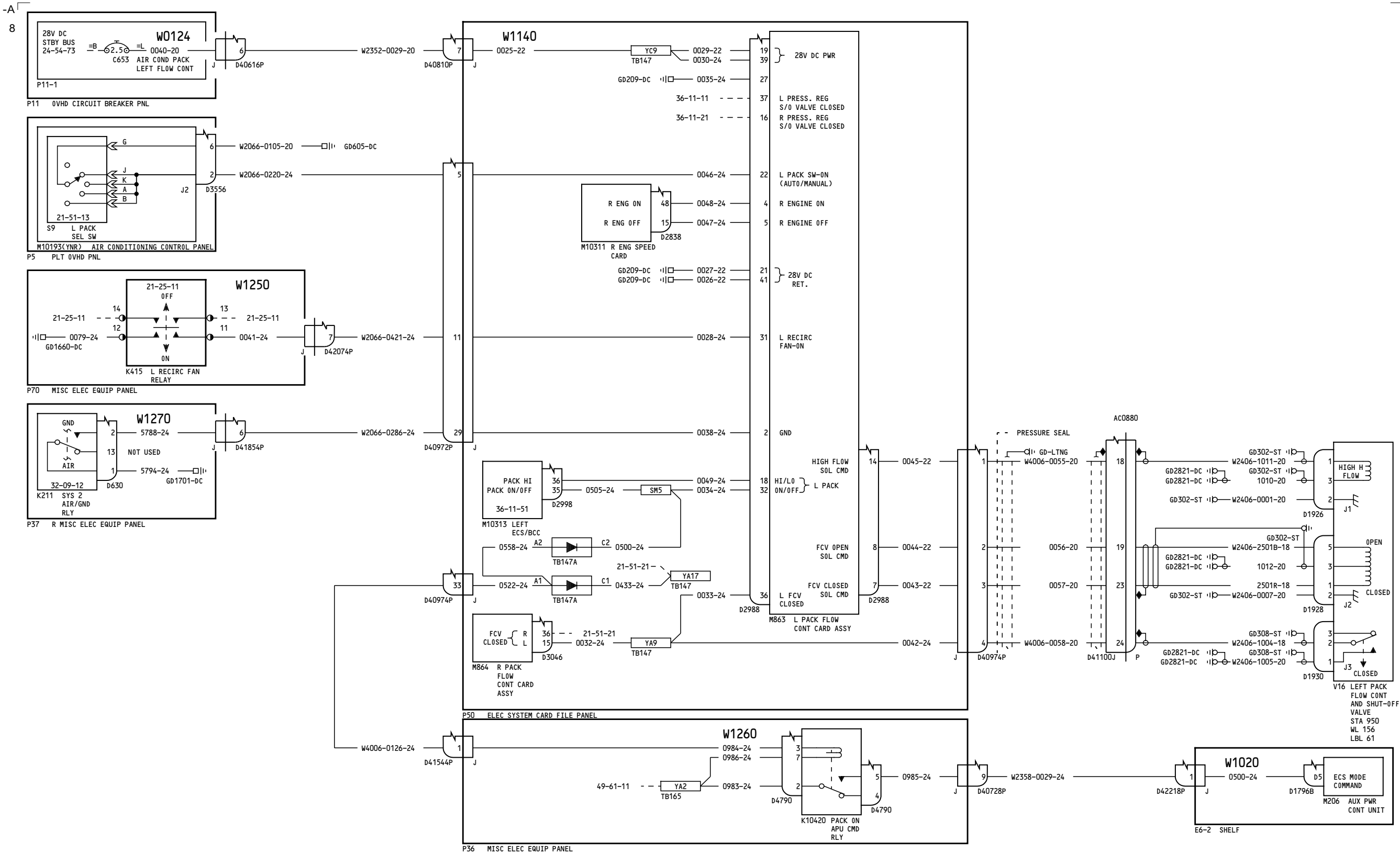


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FLOW CONTROL - LEFT**

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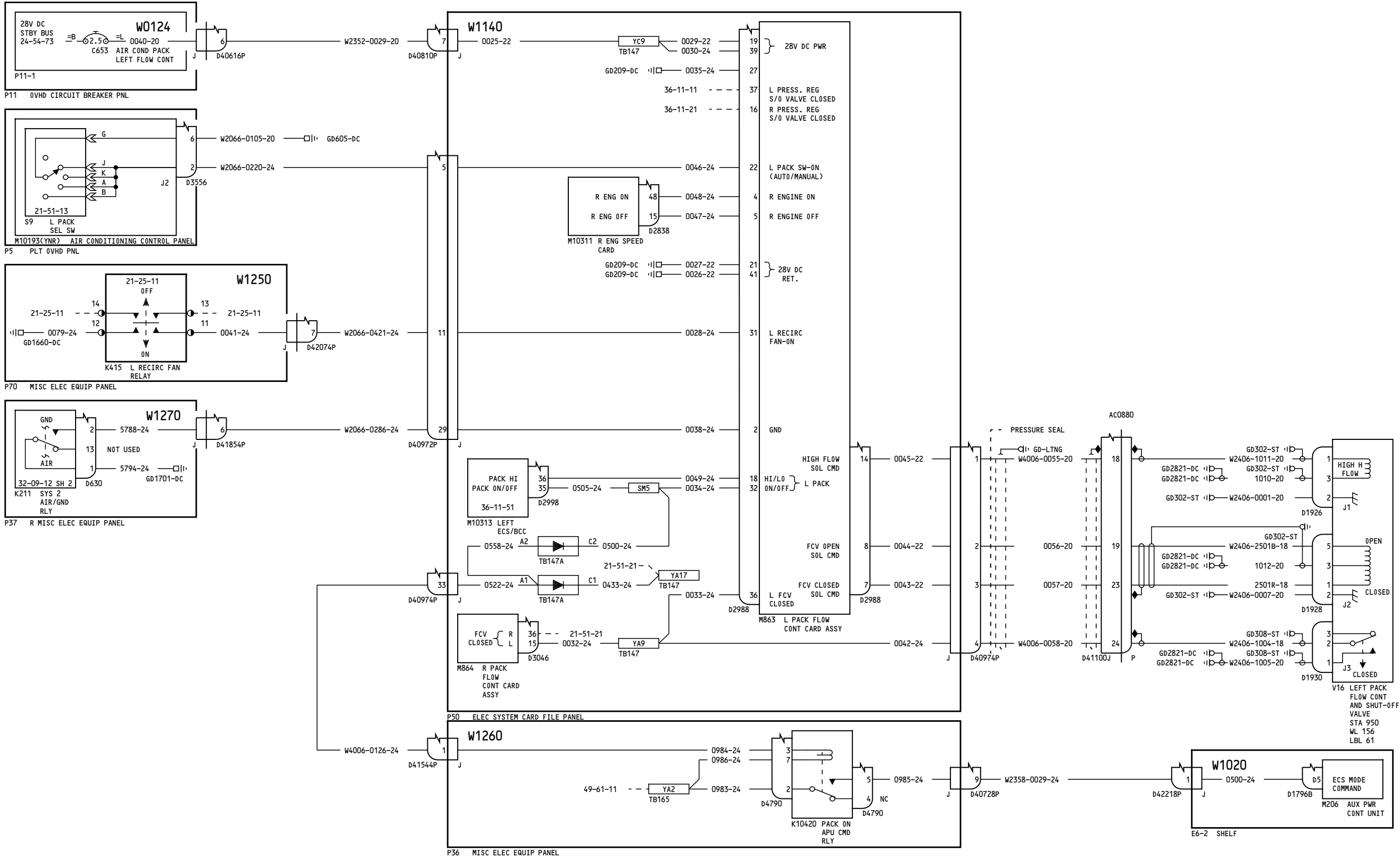
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FLOW CONTROL - LEFT**

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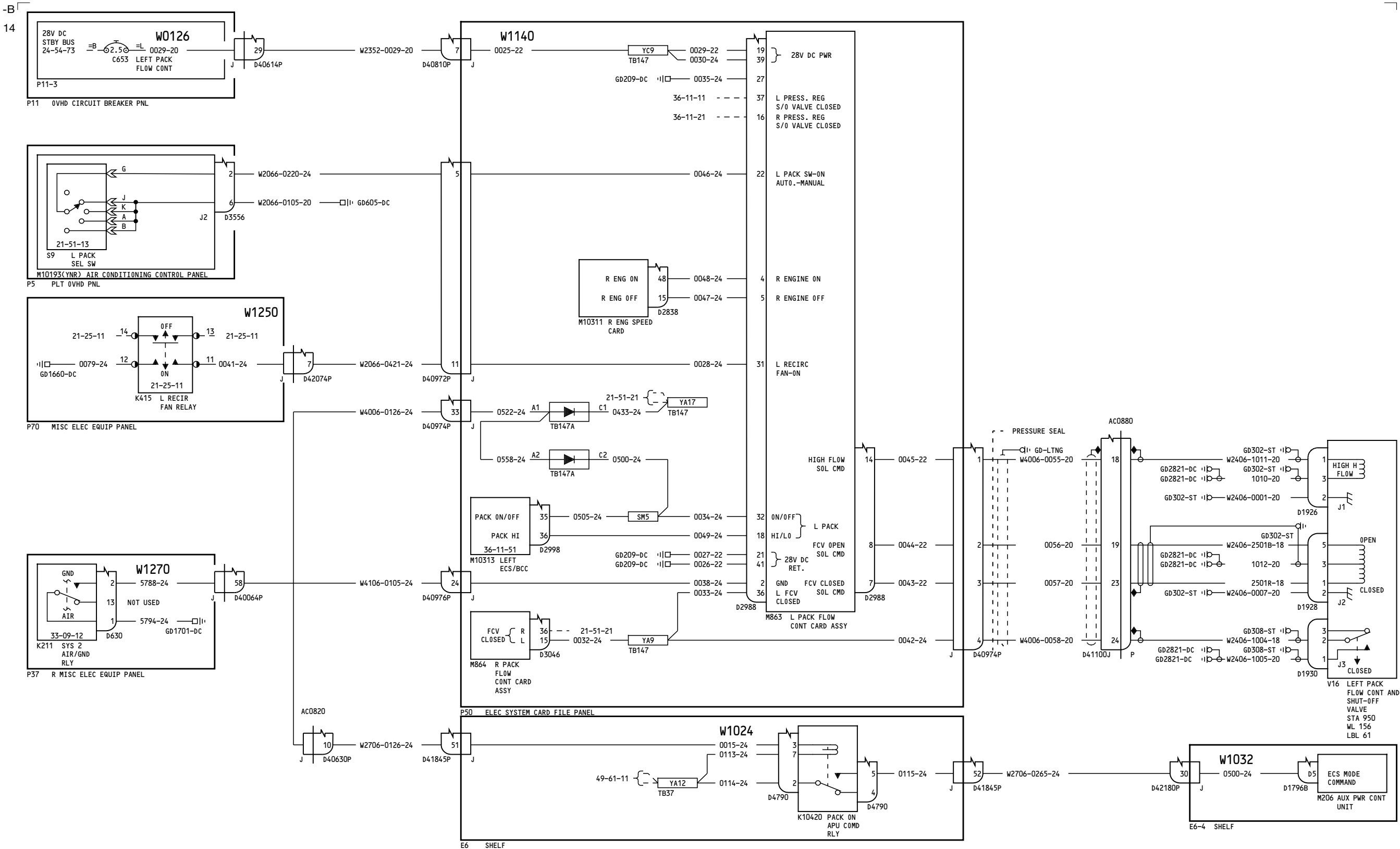
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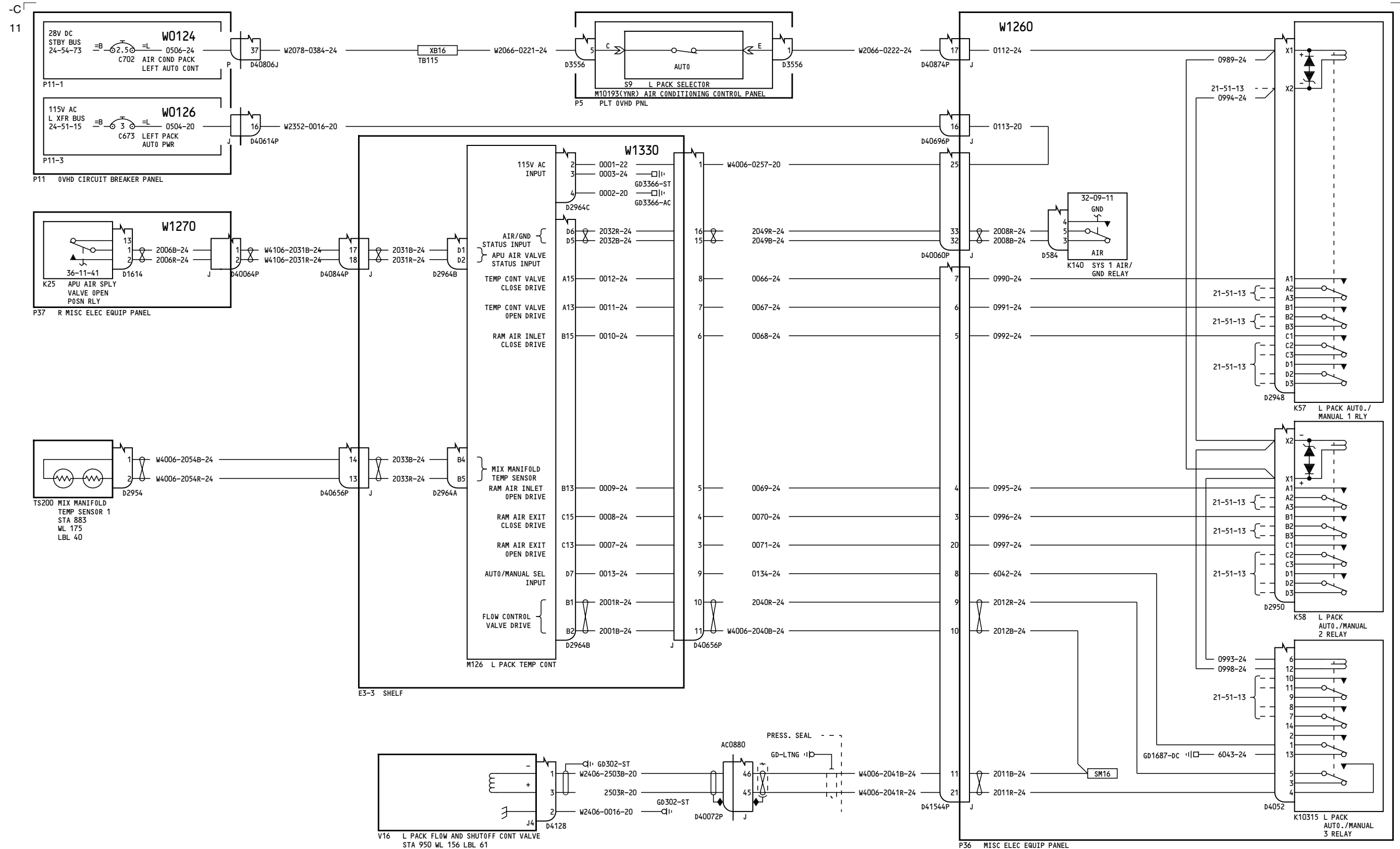
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**AIR CONDITIONING LEFT  
PACK CONTROL - AUTO**

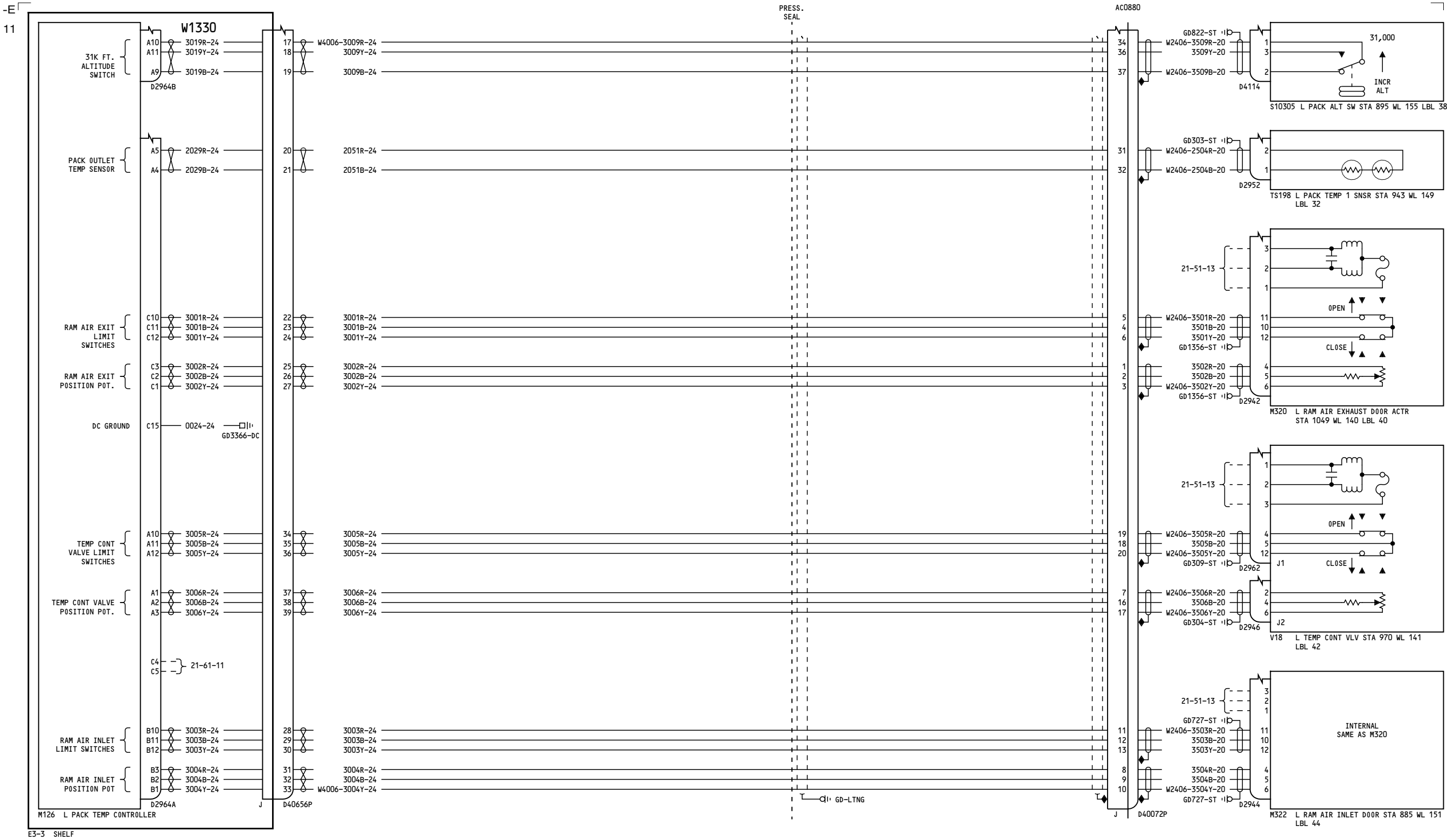
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PACK CONTROL - AUTO**

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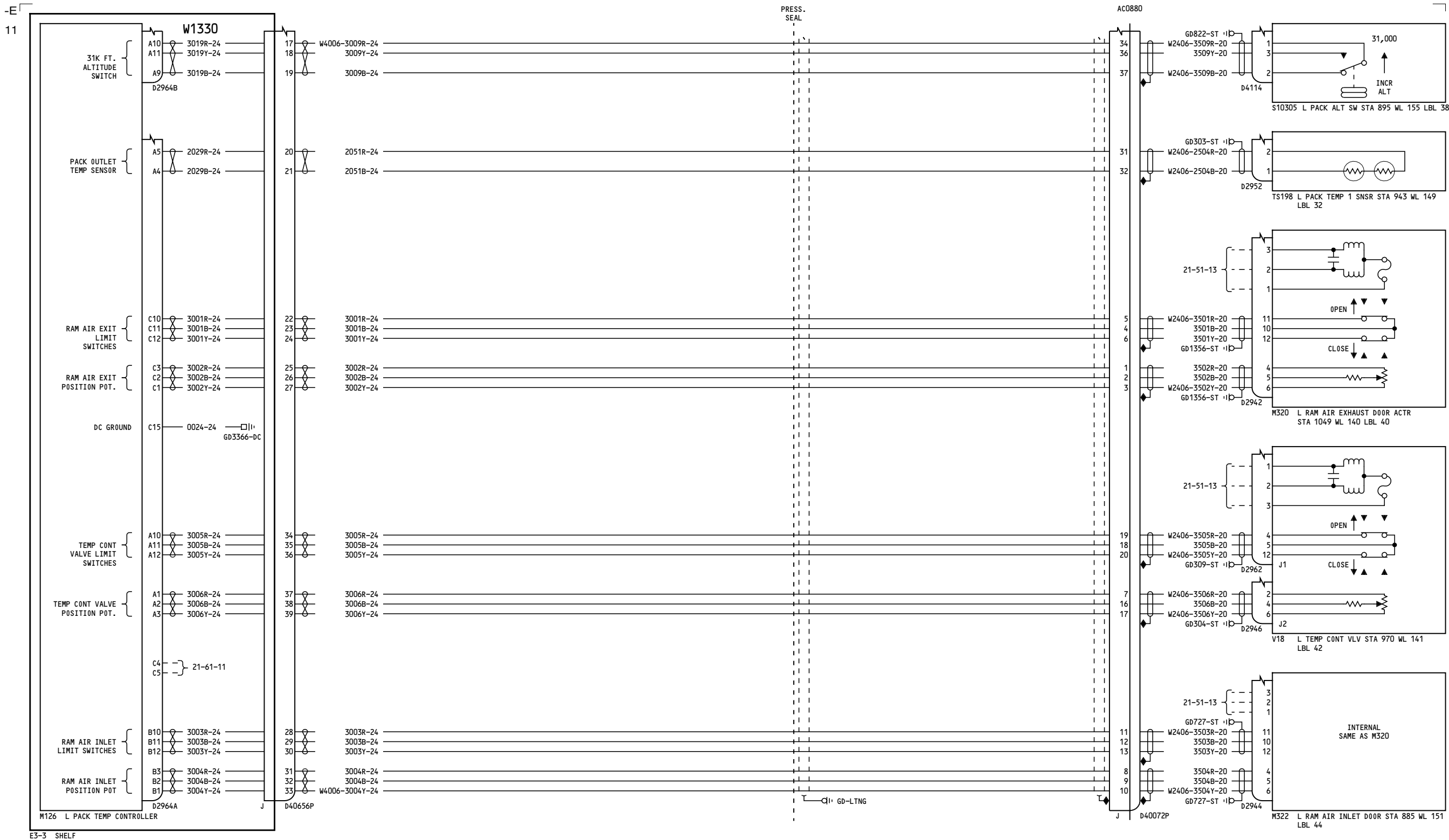
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AIR CONDITIONING LEFT  
PACK CONTROL - AUTO

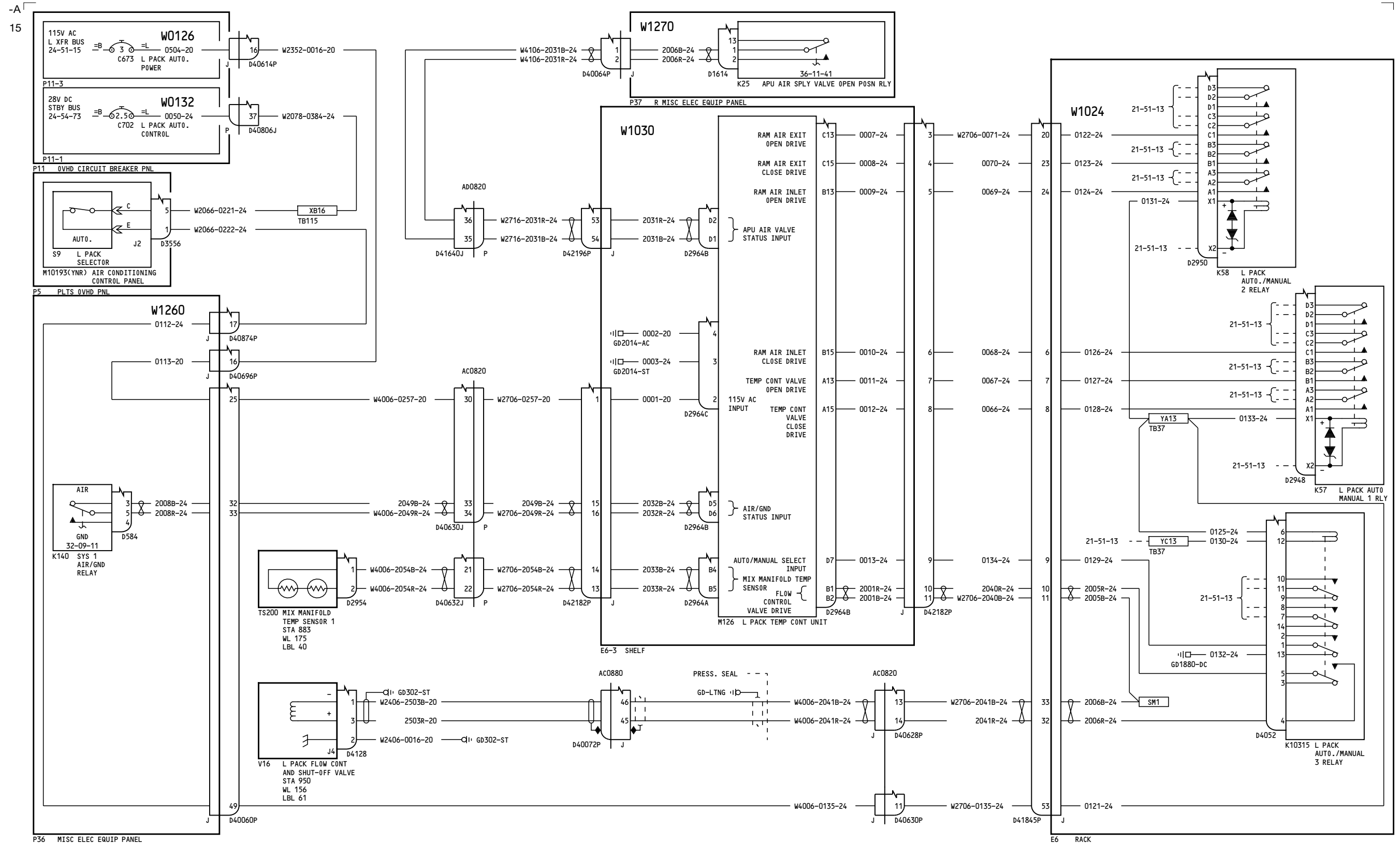
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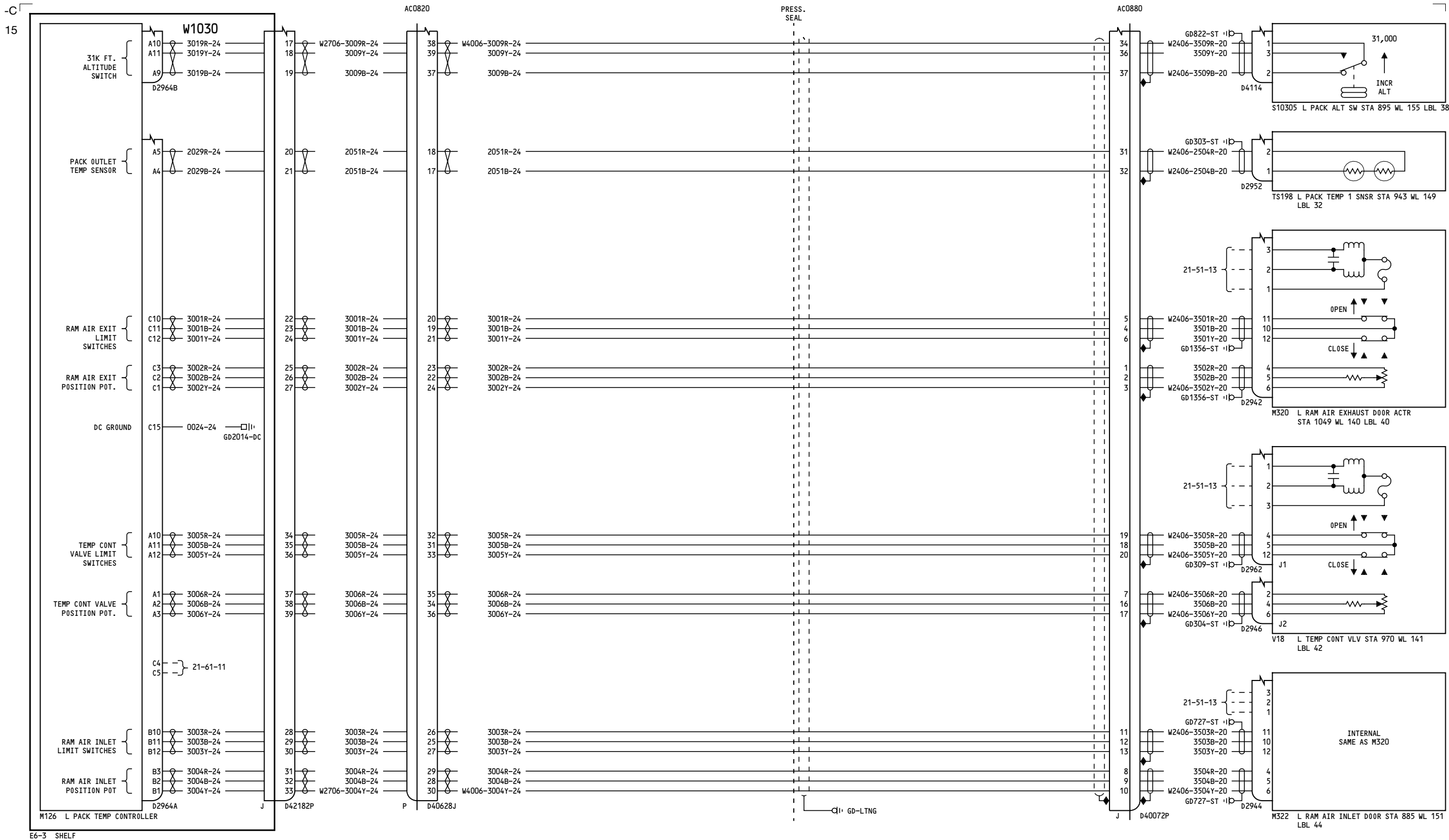
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AIR CONDITIONING LEFT  
PACK CONTROL - AUTO

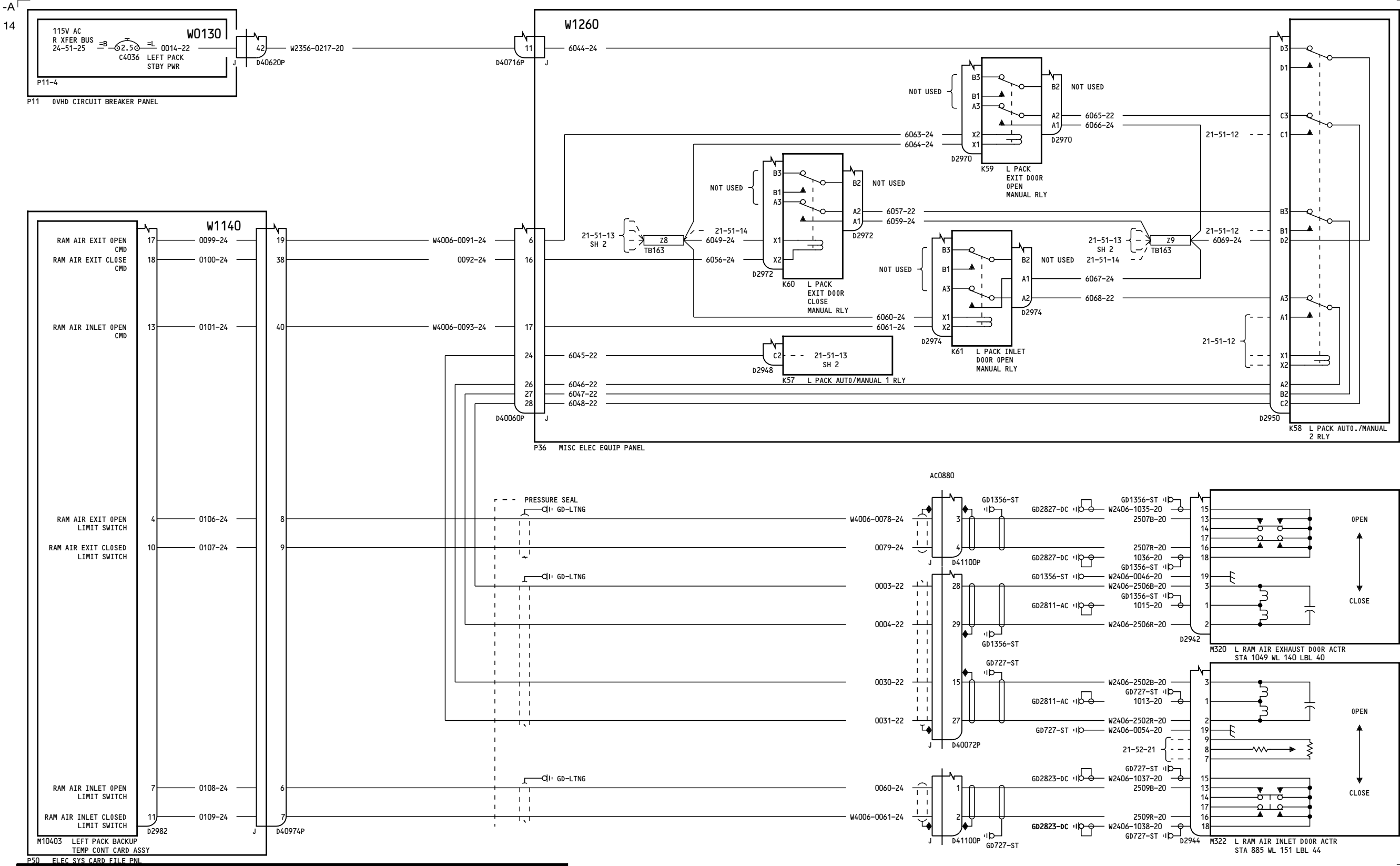
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AIR CONDITIONING LEFT  
PACK TEMPERATURE  
CONTROL - STANDBY

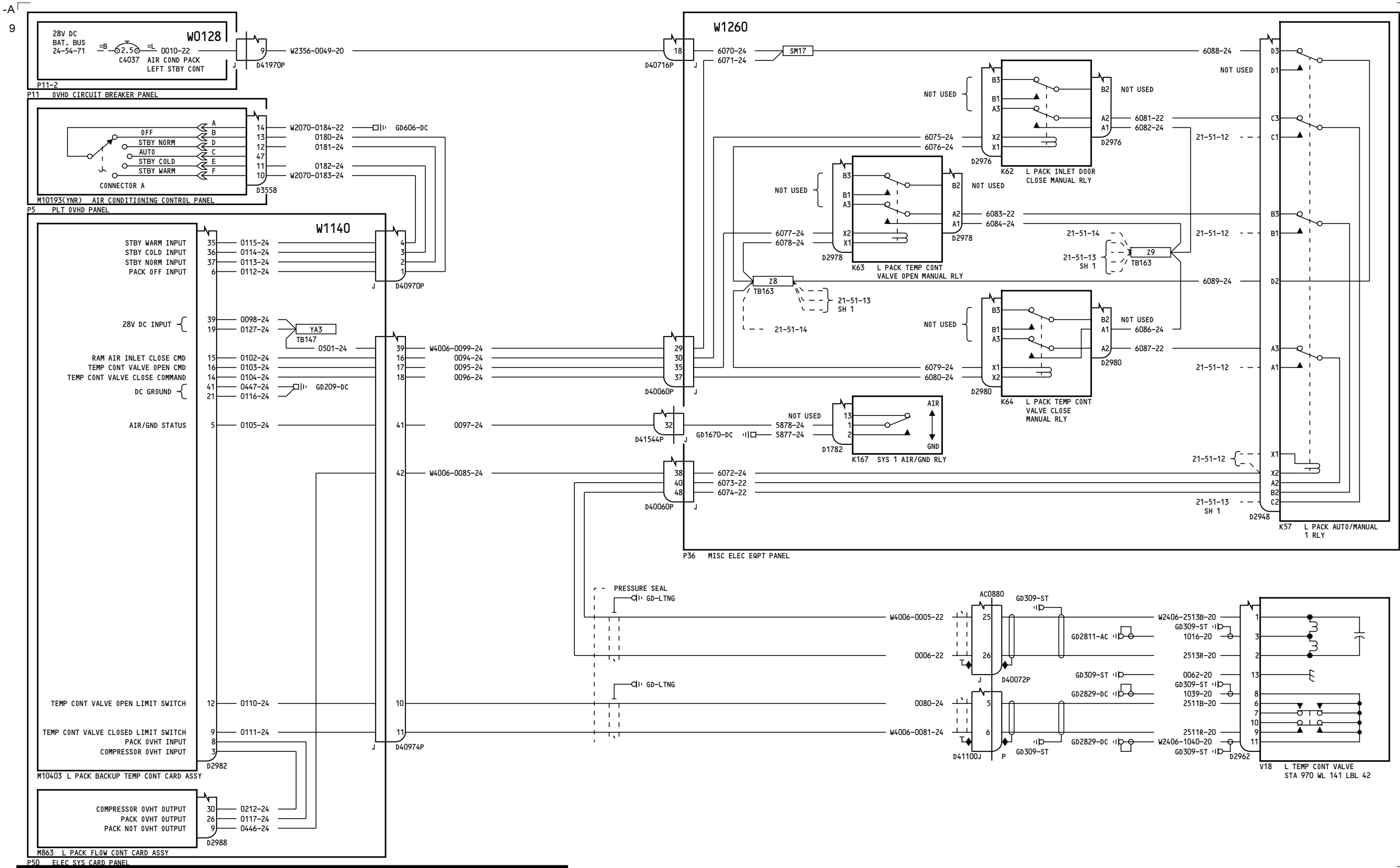
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**AIR CONDITIONING LEFT  
PACK TEMPERATURE  
CONTROL - STANDBY**

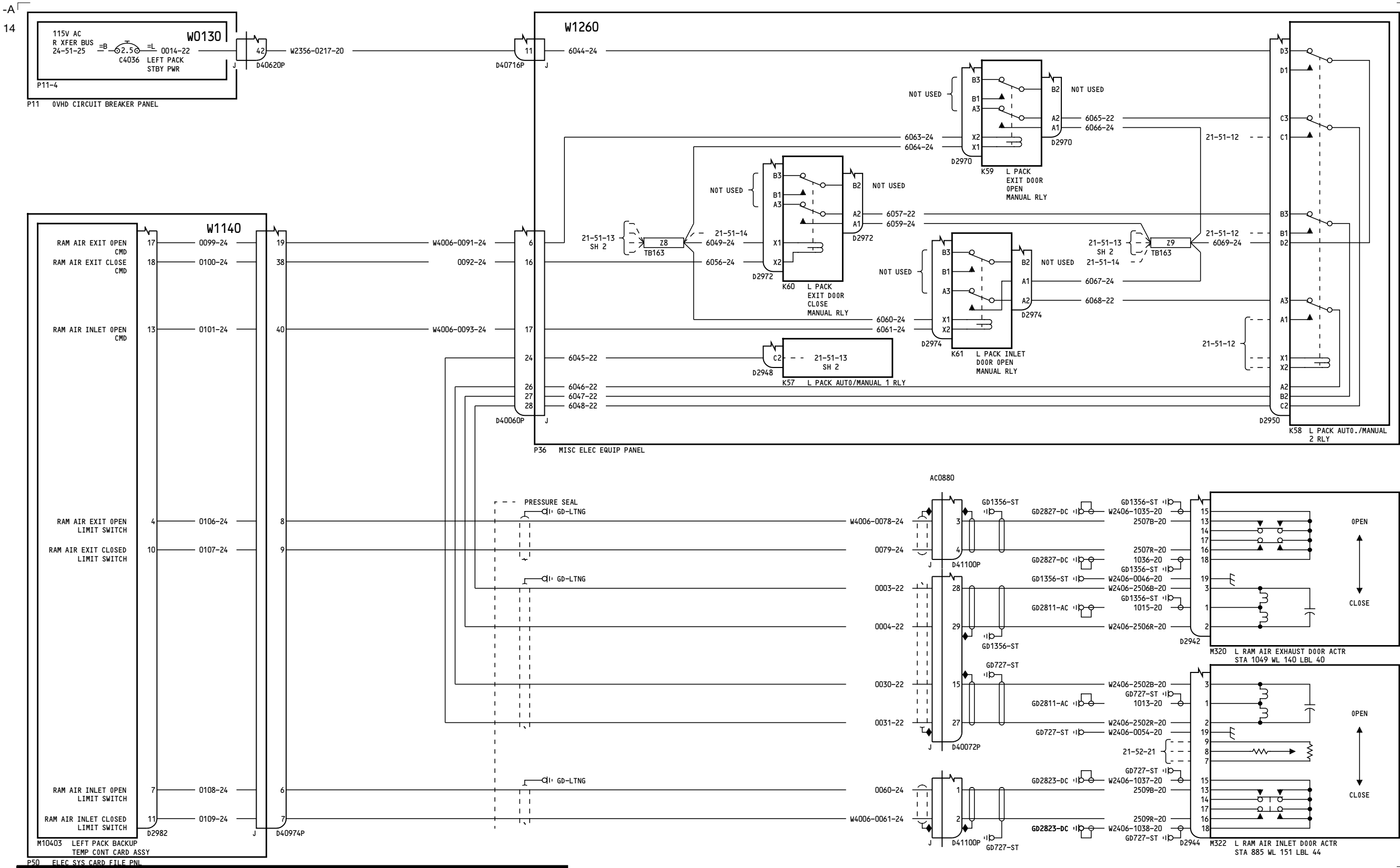
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**AIR CONDITIONING LEFT  
PACK TEMPERATURE  
CONTROL - STANDBY**

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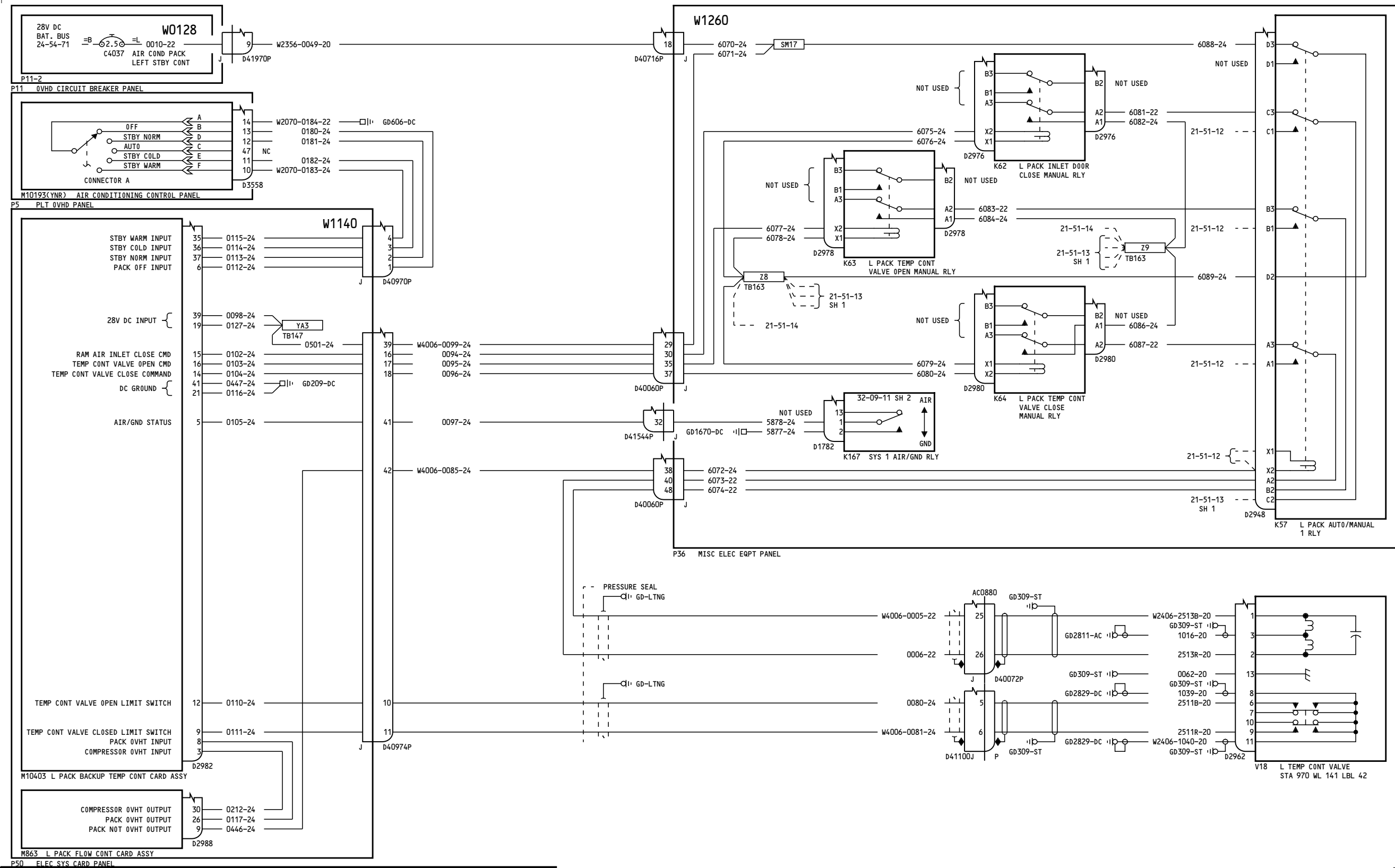
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**AIR CONDITIONING LEFT  
PACK TEMPERATURE  
CONTROL - STANDBY**

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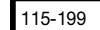
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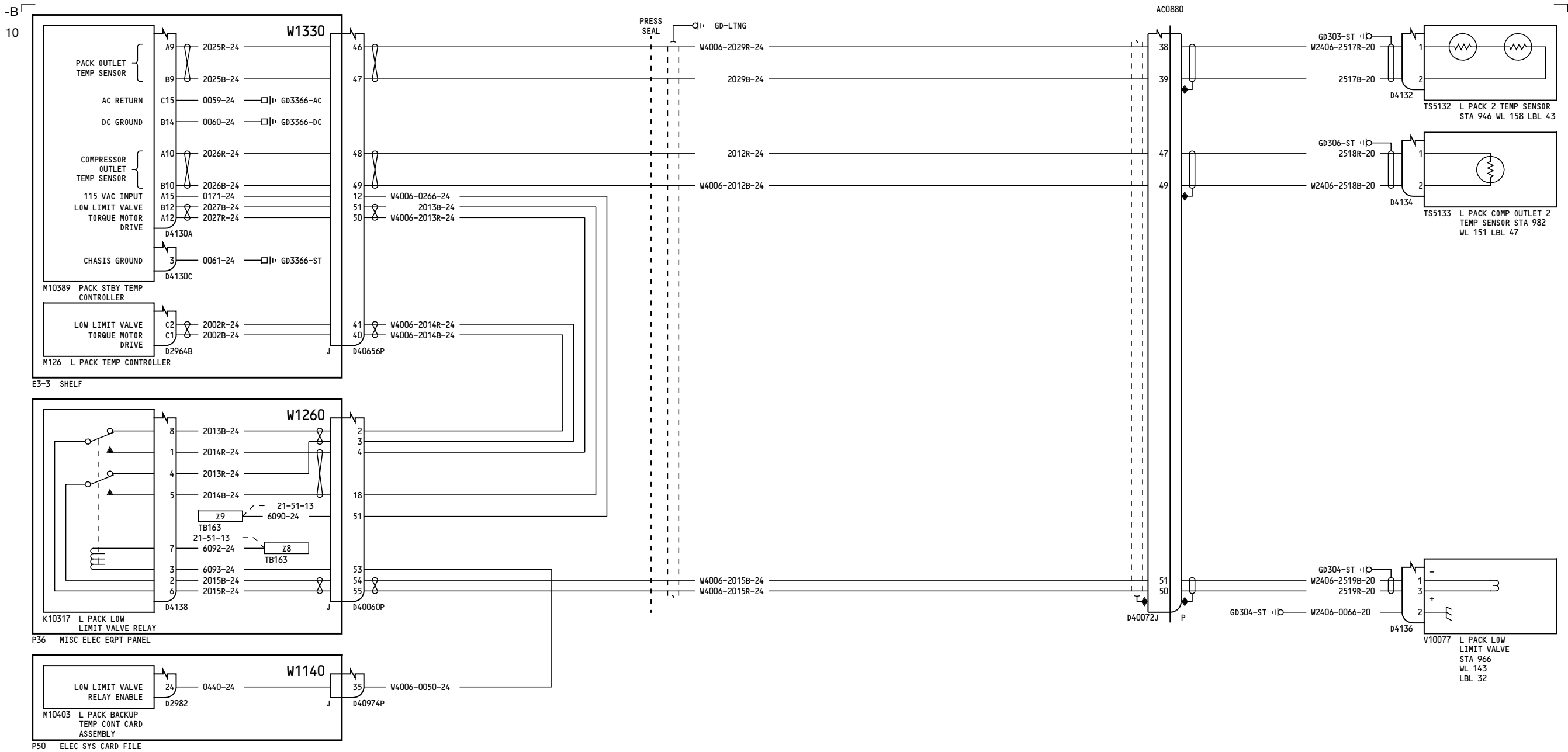


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AIR CONDITIONING PACK  
LOW LIMIT VALVE  
CONTROL - LEFT

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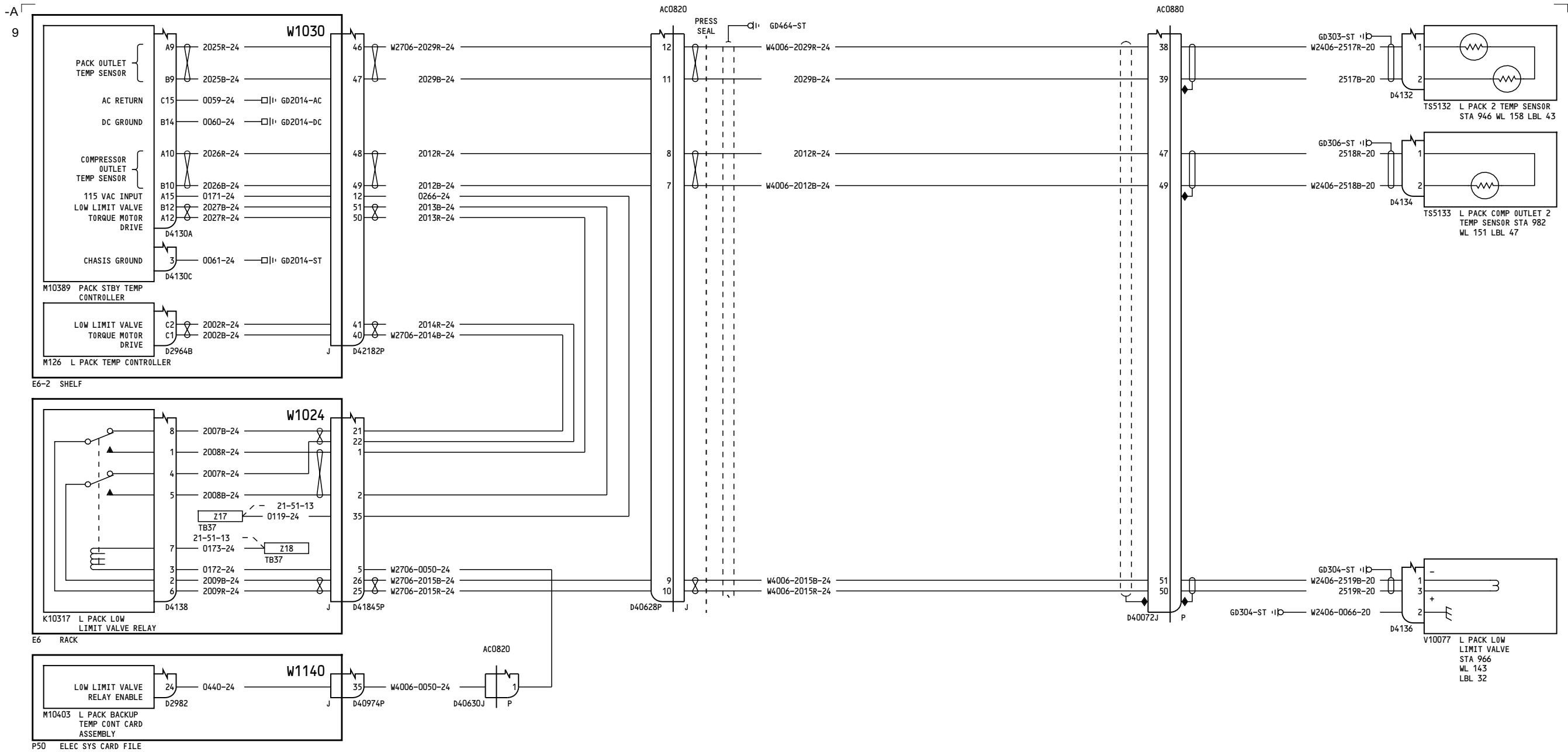
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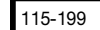
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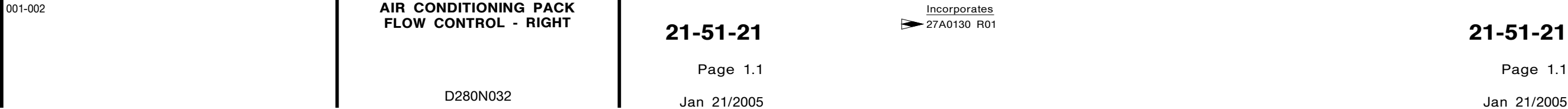
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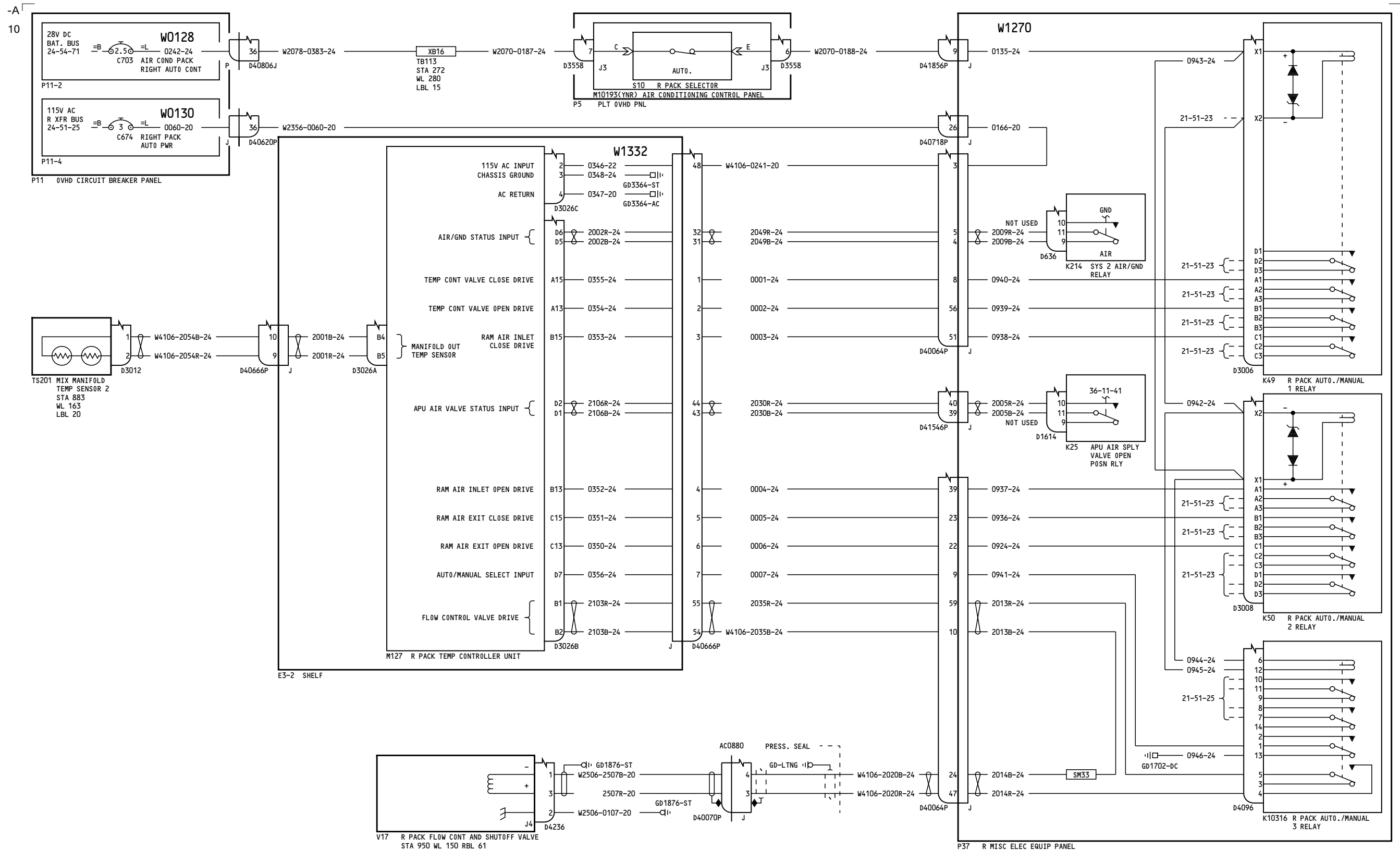
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PACK CONTROL - AUTO**

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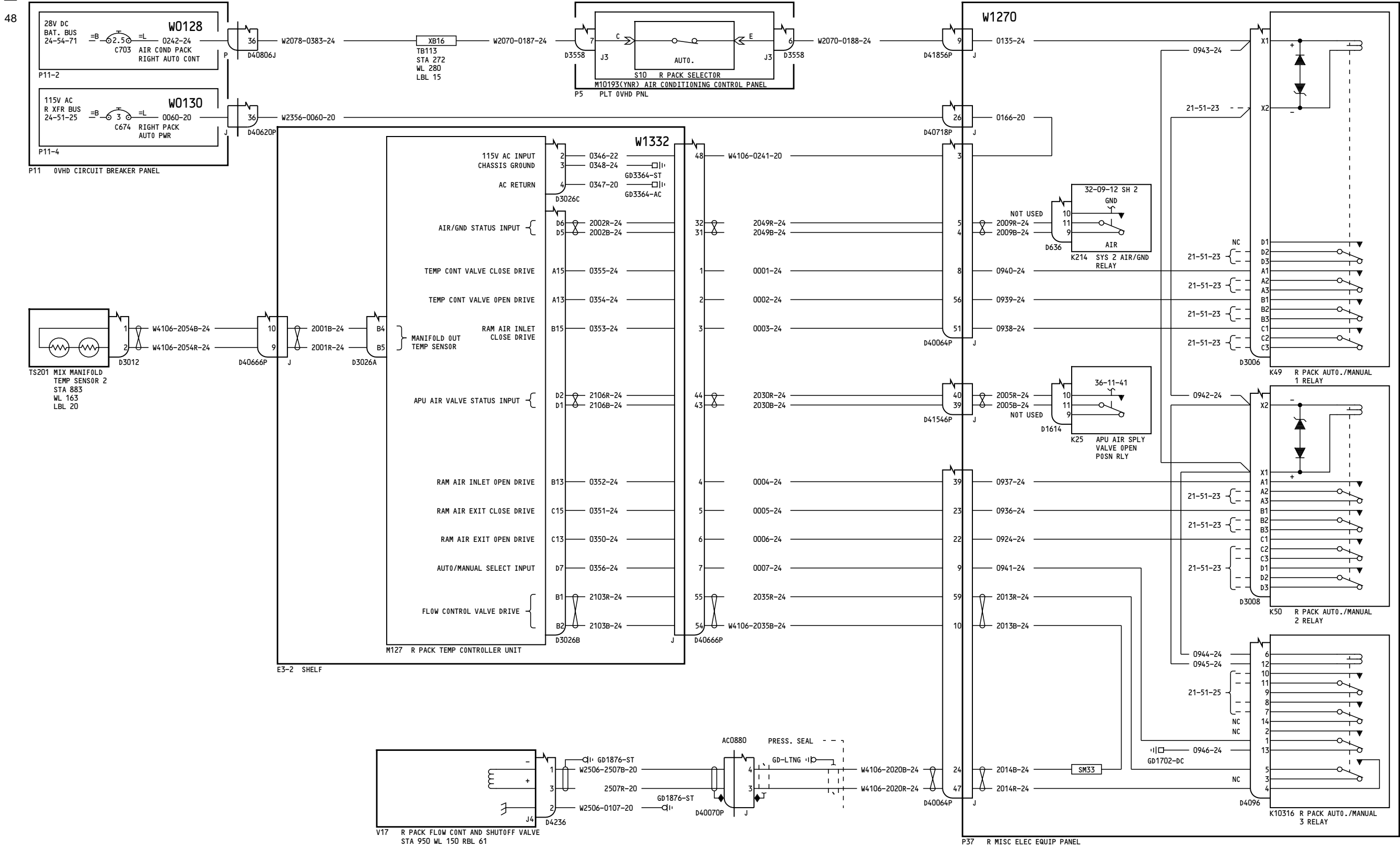


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PACK CONTROL - AUTO**

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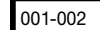
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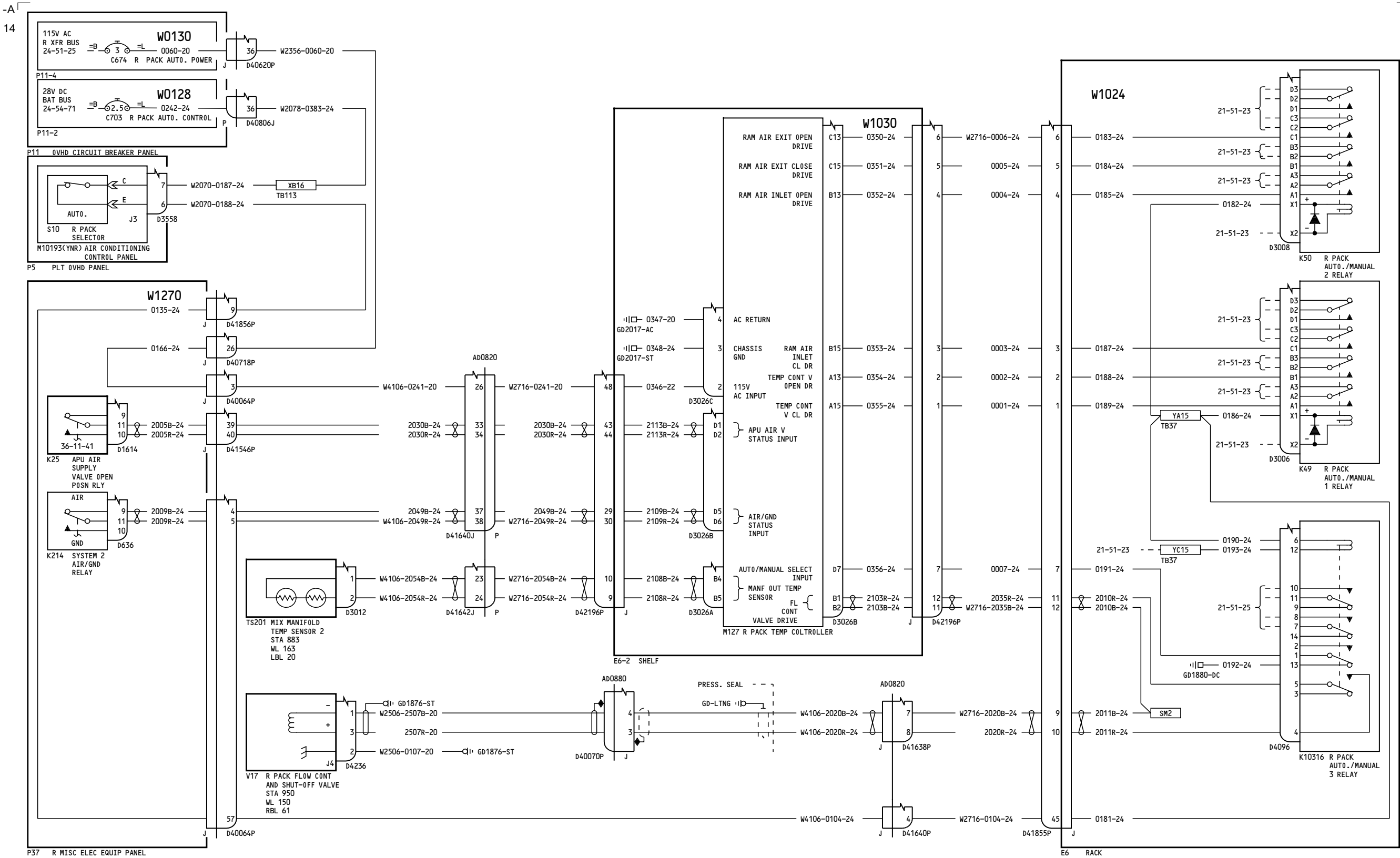


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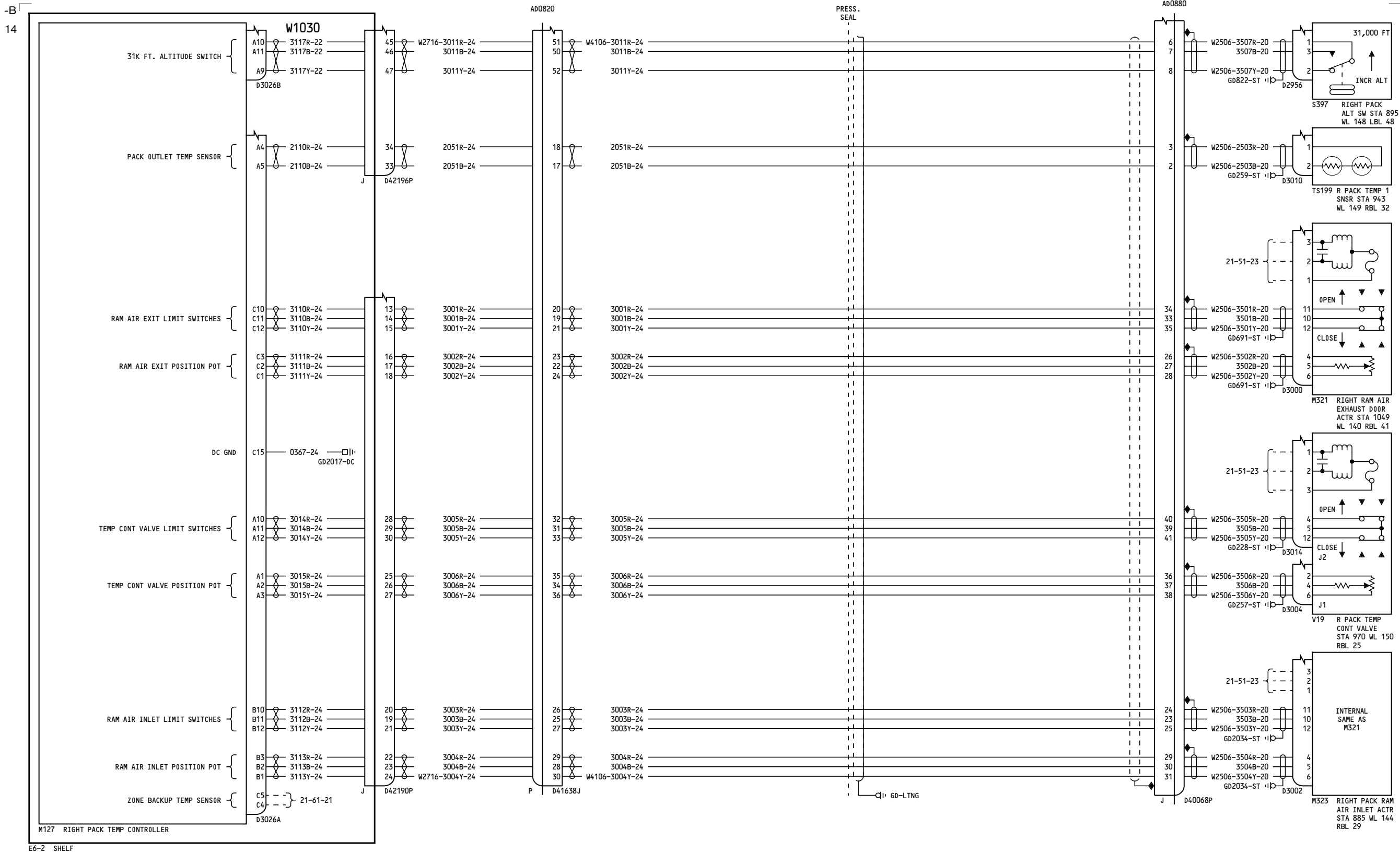
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PACK CONTROL - AUTO

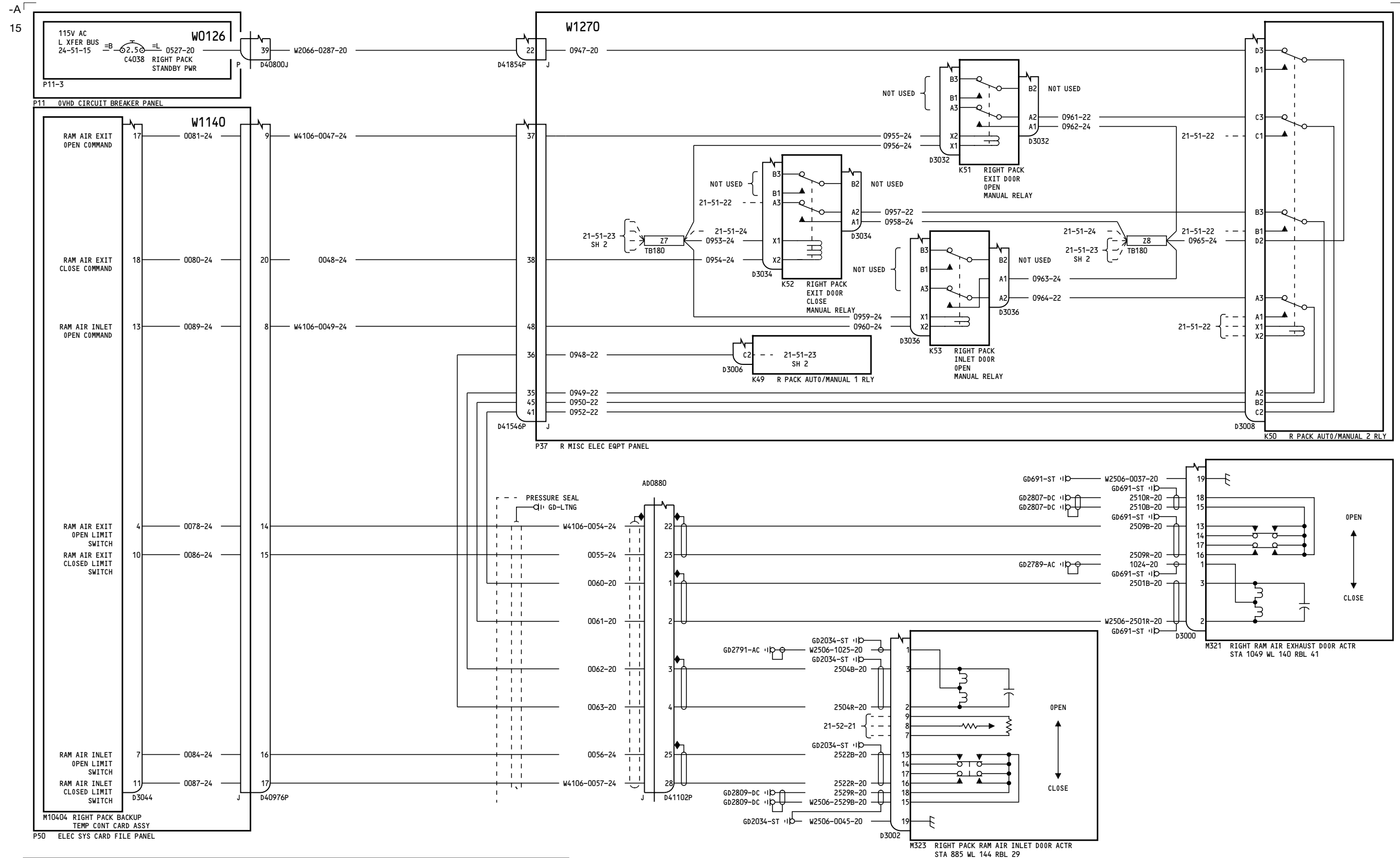
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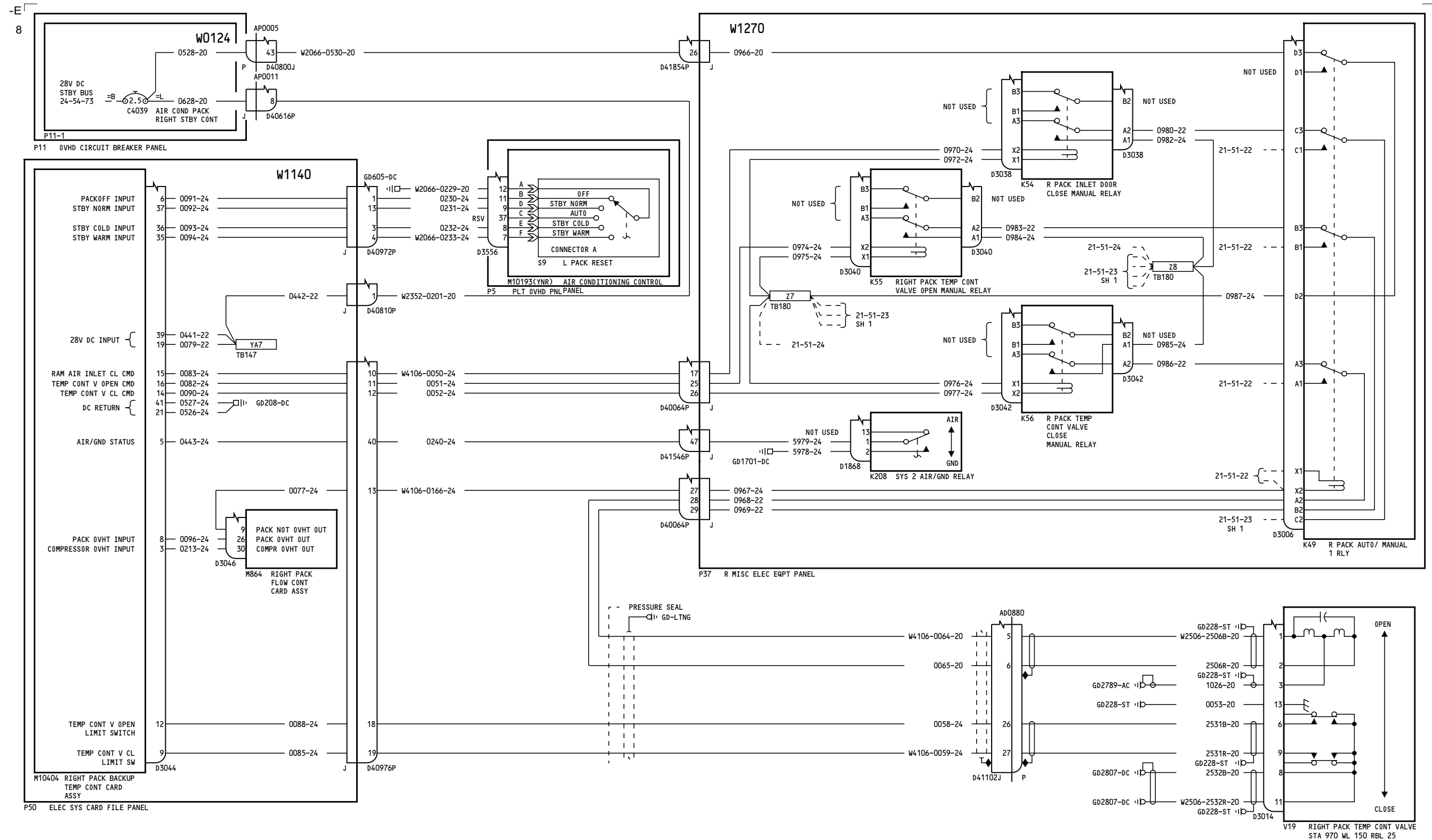
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PACK TEMPERATURE  
CONTROL - STANDBY**

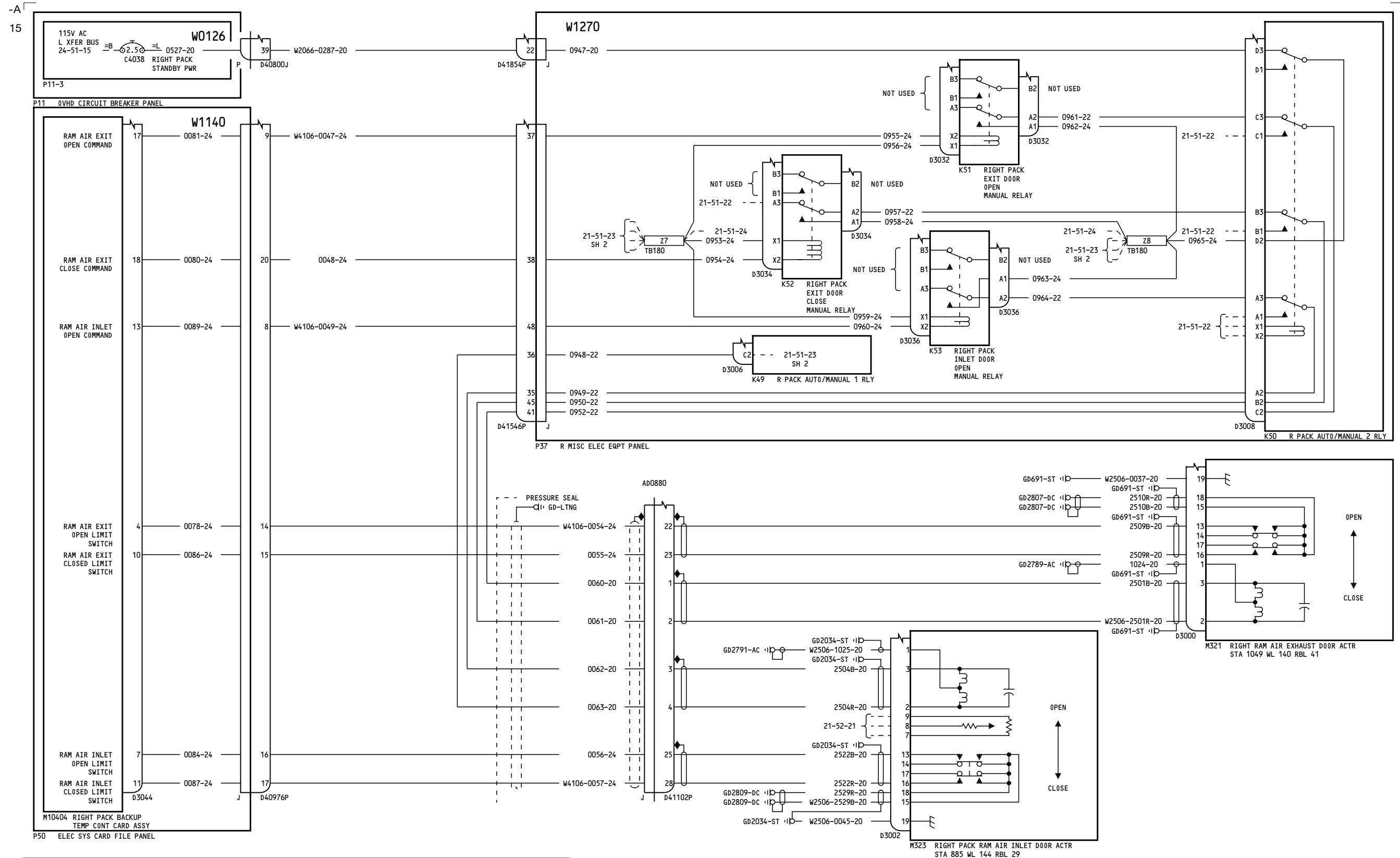
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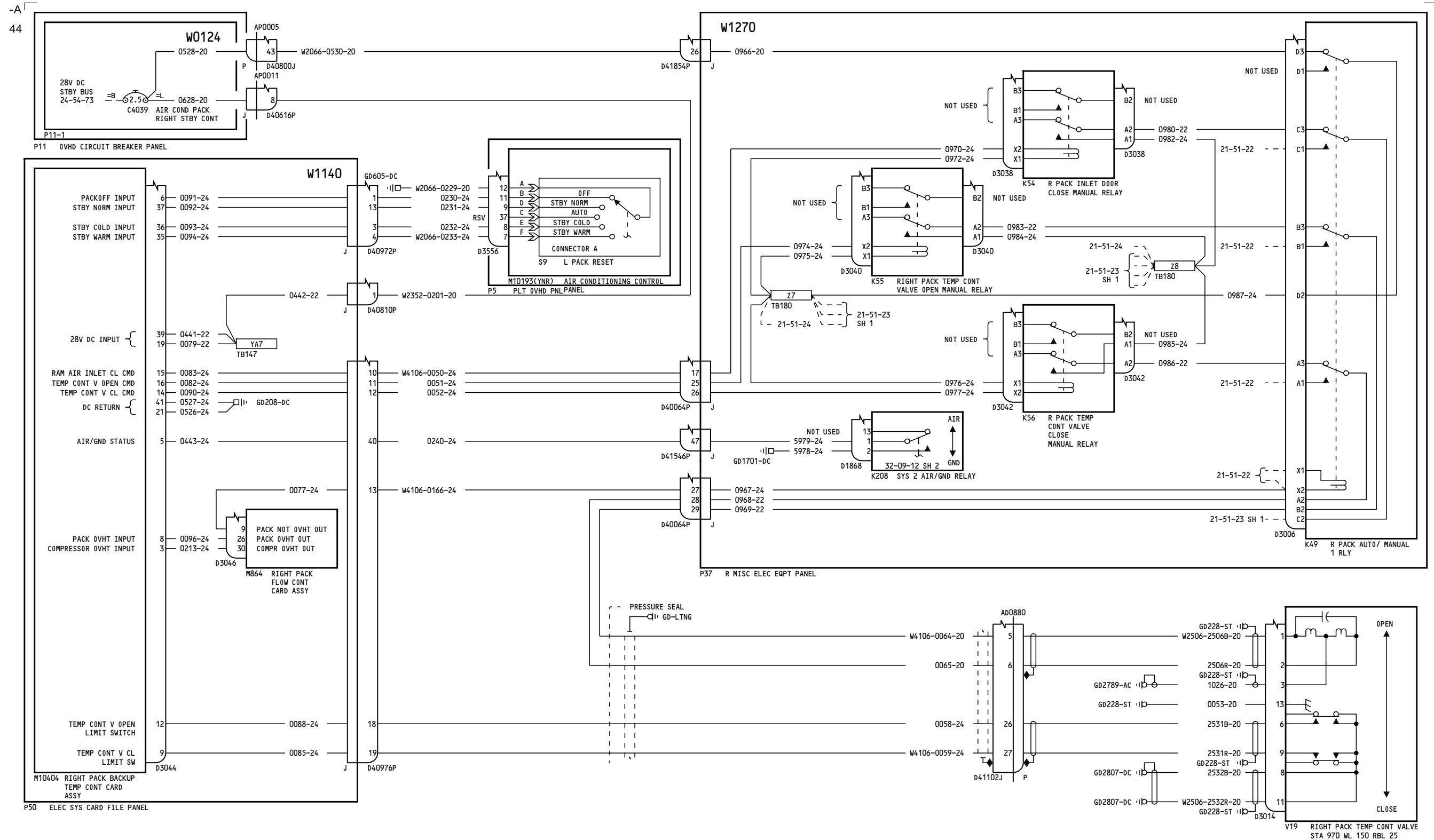
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PACK TEMPERATURE  
CONTROL - STANDBY**

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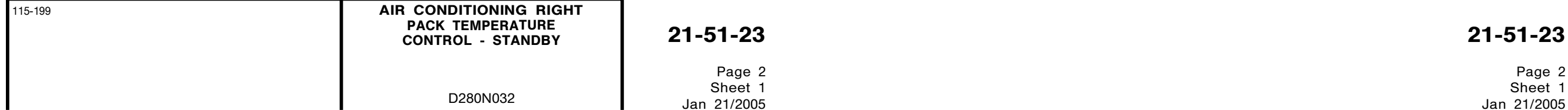
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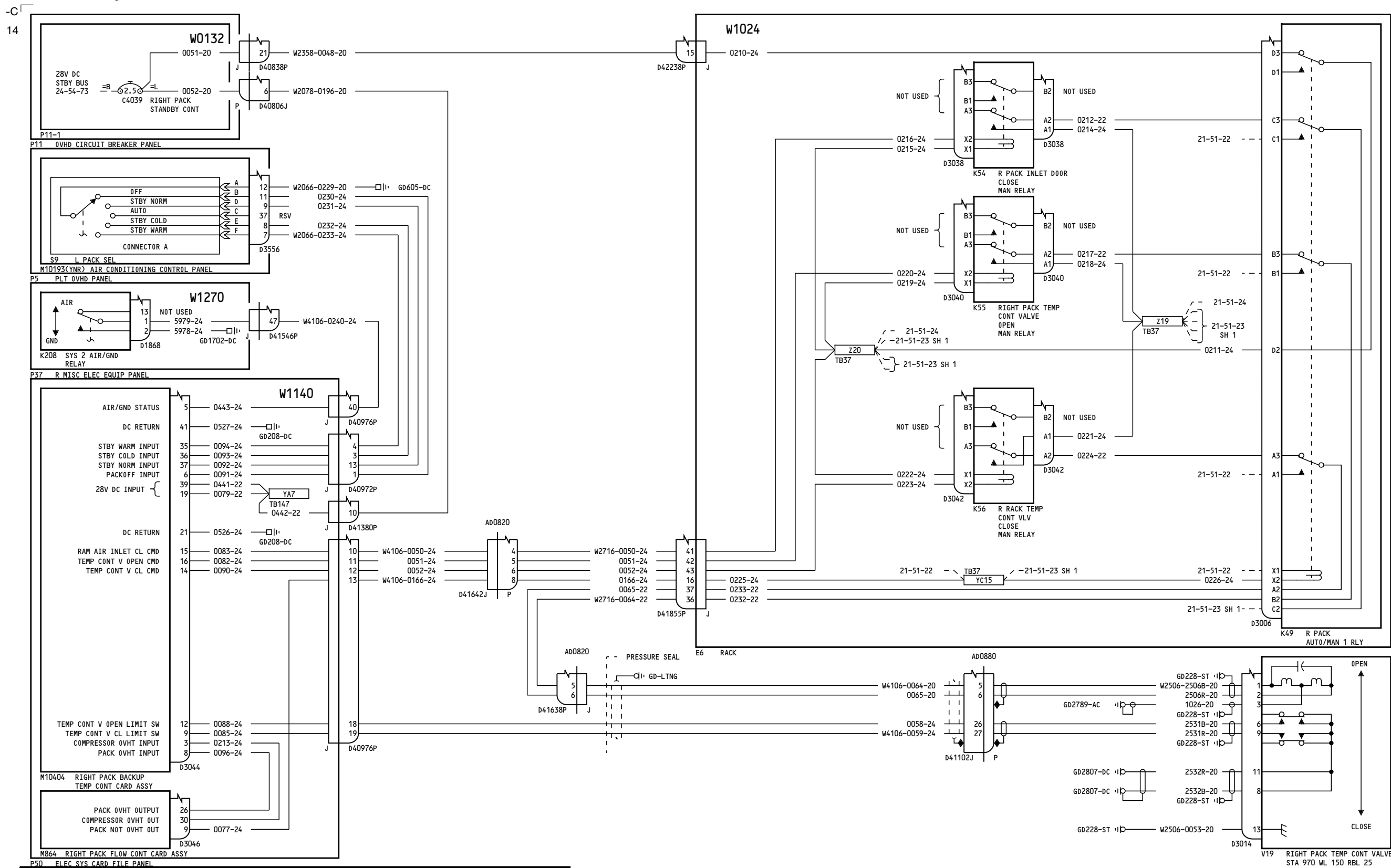
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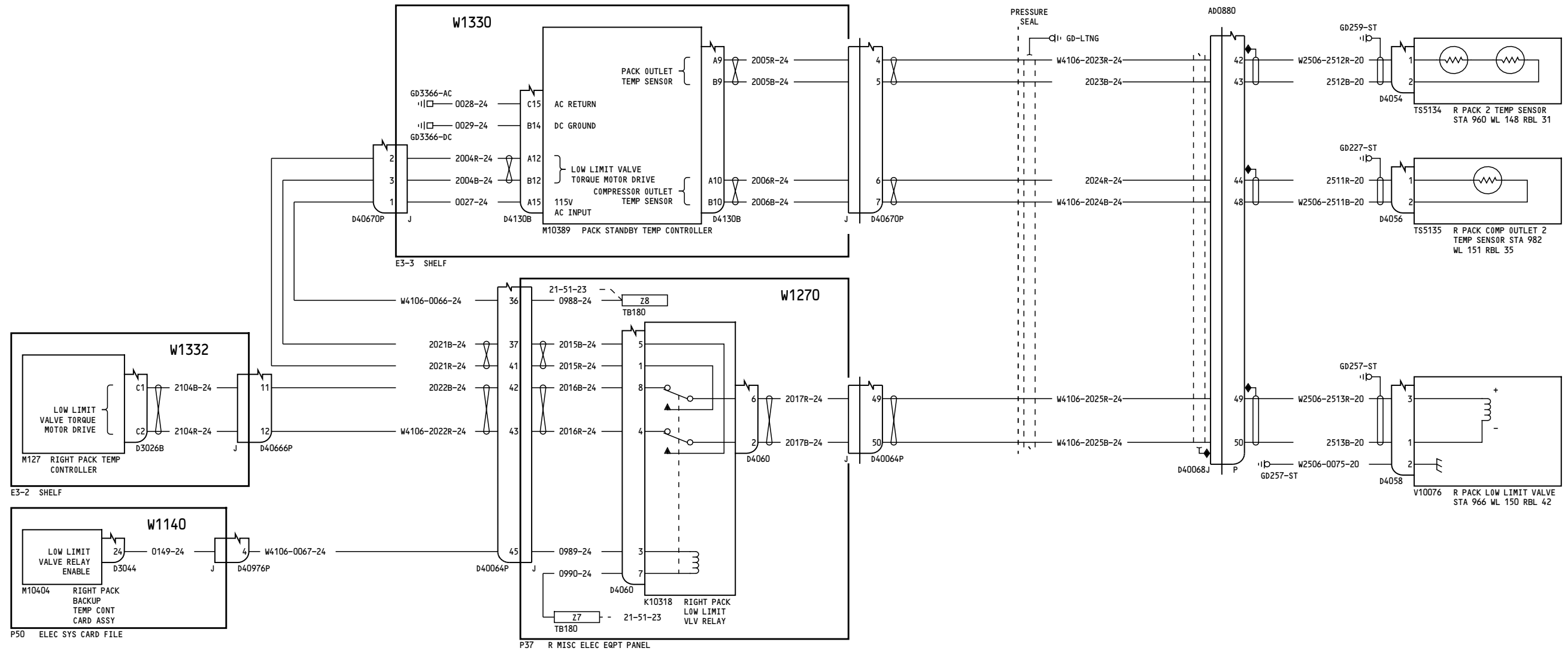
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LOW LIMIT VALVE  
CONTROL - RIGHT**

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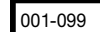
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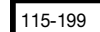
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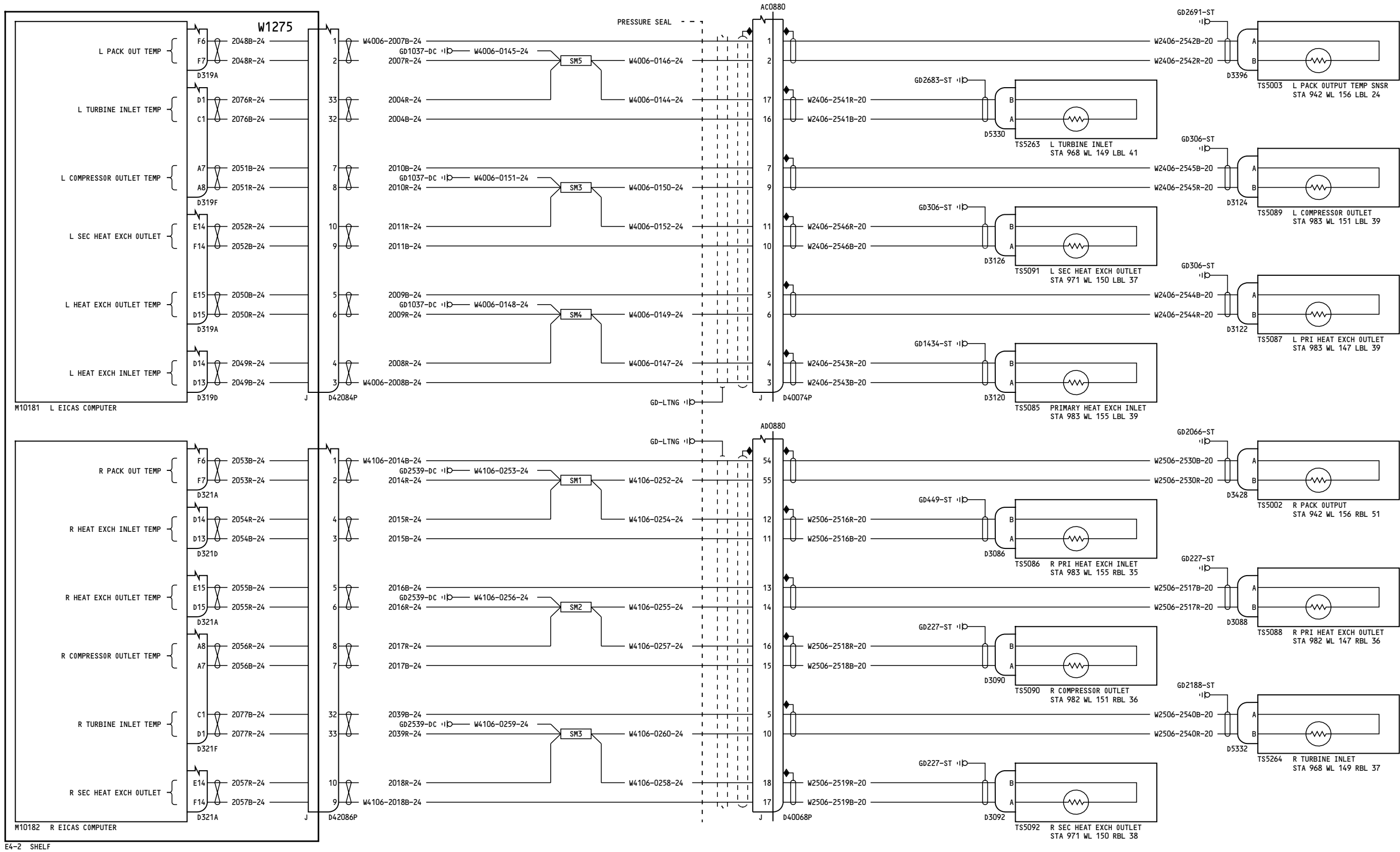
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**AIR CONDITIONING PACK  
TEMPERATURE INDICATION**

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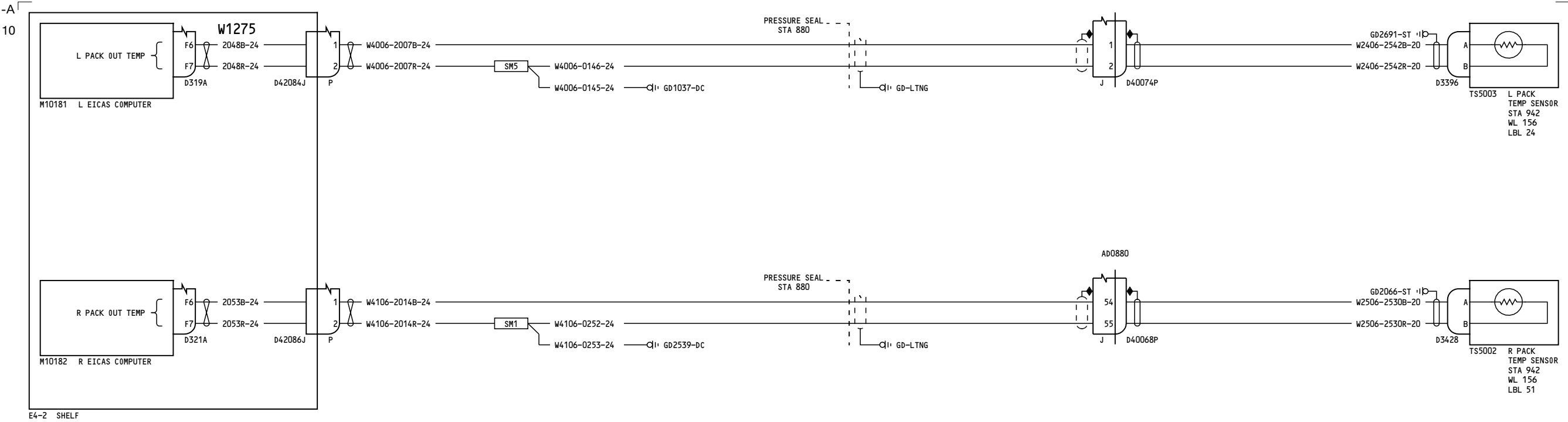
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The diagram illustrates the electrical system for the E4-2 SHELF, specifically focusing on the excitation and signal paths from the EICAS computers to various control valves.

- EICAS Computers:** Two units are shown at the bottom: M10181 L EICAS COMPUTER and M10182 R EICAS COMPUTER. Both have terminals for EXCITATION, SIGNAL, and GND.
- Excitation Paths:**
  - M10181 connects to terminal J12, which leads to wire 6406-24 and then to terminal 15 of relay W4006-3021B-24.
  - M10182 connects to terminal G10, which leads to wire 79-31-11 and then to terminal 11 of relay W4106-3020R-24.
- Signal Paths:**
  - M10181 connects to terminal H13, which leads to wire 6226-24 and then to terminal 12 of relay W4006-3020B-24.
  - M10182 connects to terminal E4, which leads to wire 79-31-11 and then to terminal 13 of relay W4106-3020Y-24.
- Control Valves:**
  - V19 R PACK TEMP CONT VALVE:** Receives signals from W4106-3020R-24 (terminal 11) and W4106-3020B-24 (terminal 12). Its internal circuit includes a solenoid (3510B-20) and a control valve (V19).
  - V18 L TEMP CONT VALVE:** Receives signals from W4106-3020Y-24 (terminal 13) and W4106-3020B-24 (terminal 12). Its internal circuit includes a solenoid (3510B-20) and a control valve (V18).
  - V17 LEFT RAM AIR INLET DOOR ACTR:** Receives signals from W4106-3021B-24 (terminal 15) and W4106-3021Y-24 (terminal 14). Its internal circuit includes a solenoid (3507B-20) and a control valve (V17).

## PACK DOOR AND VALVE POSITION INDICATION

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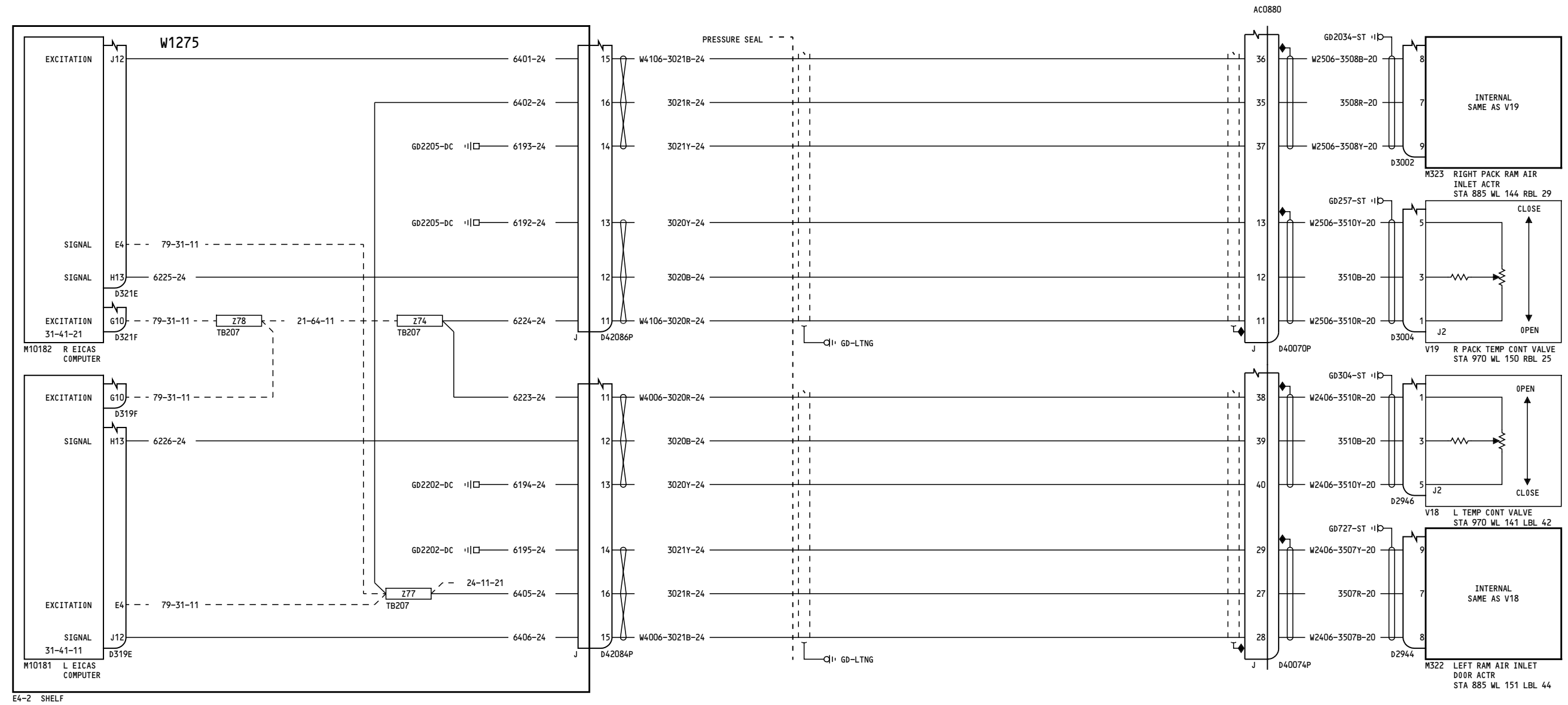
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## PACK FLOW INDICATION

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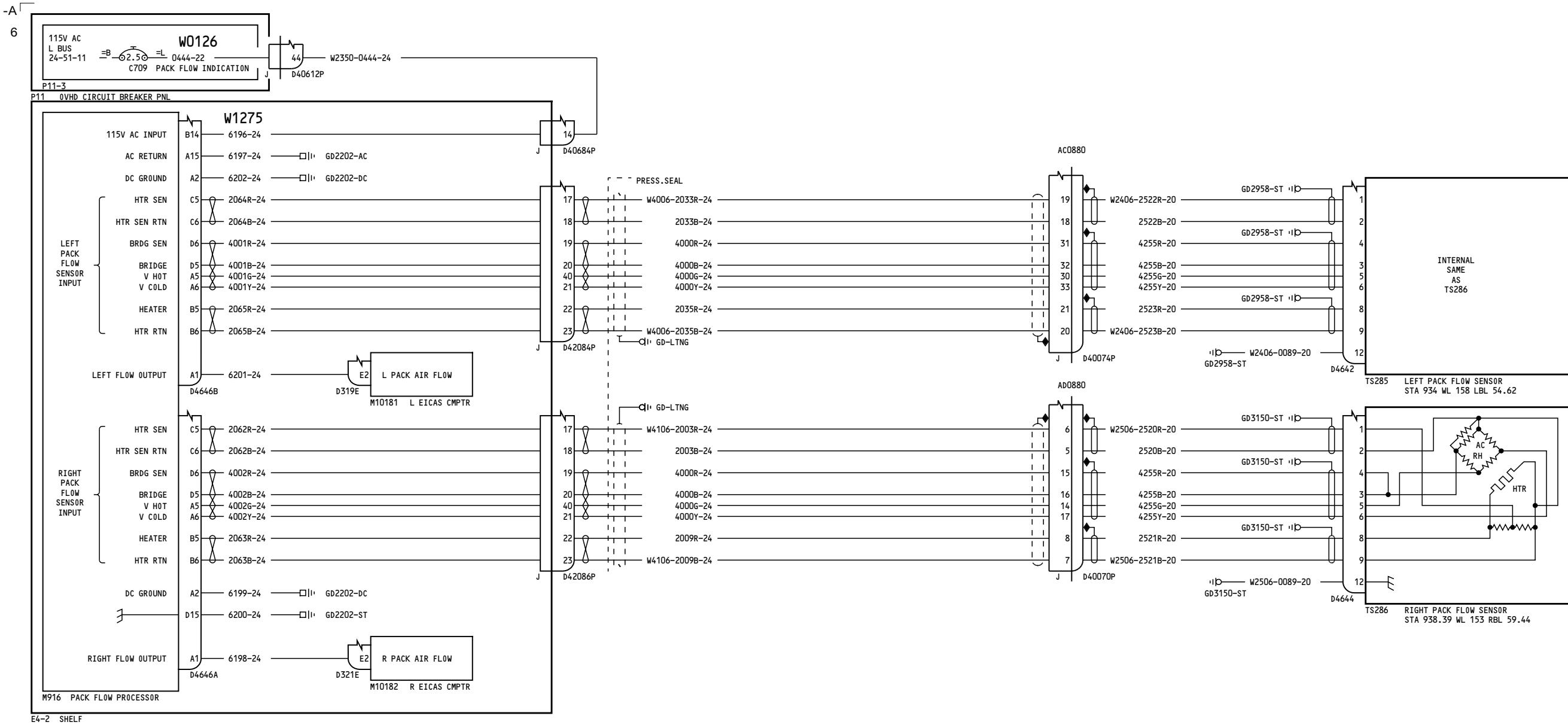
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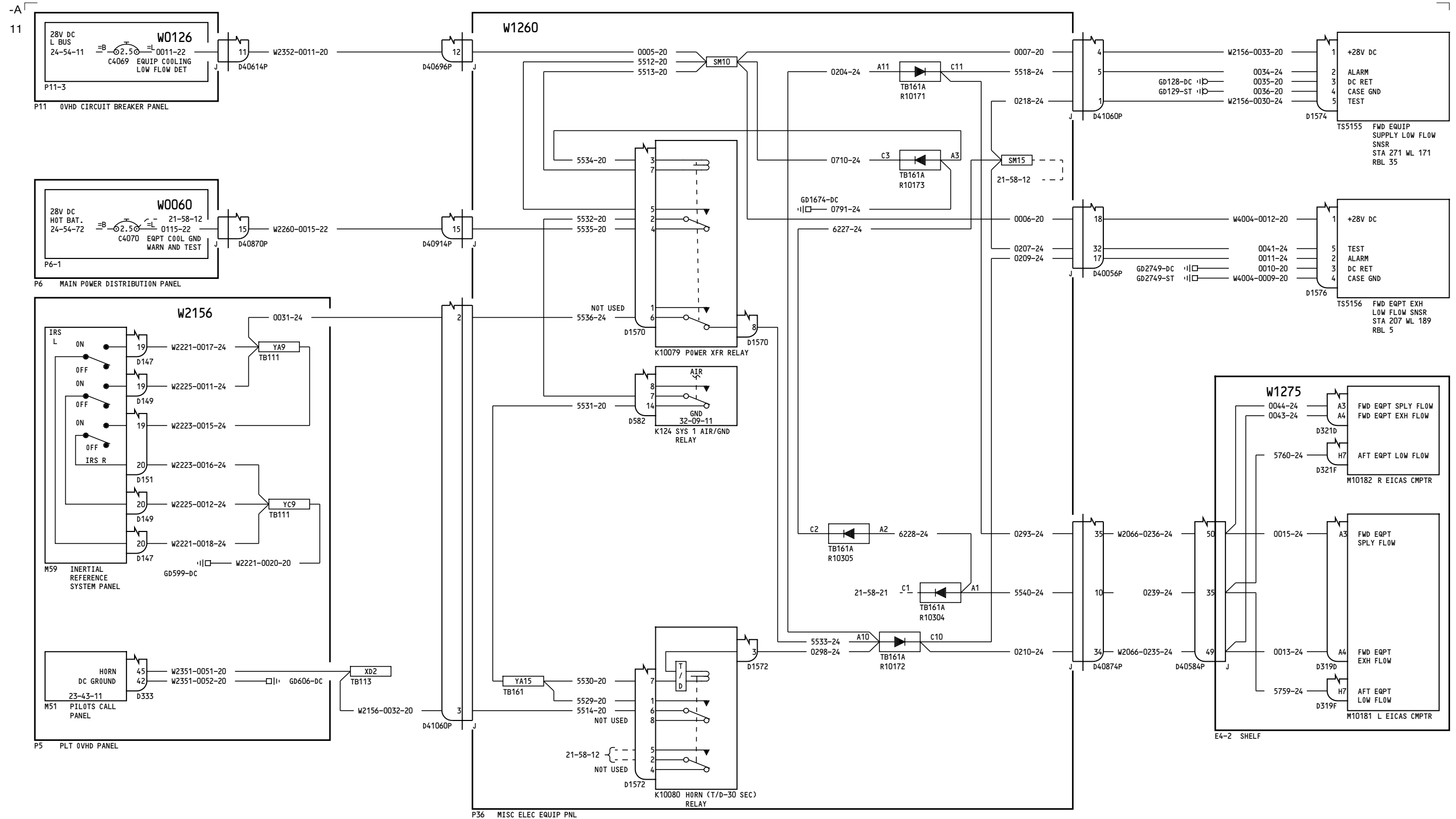
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## EQUIPMENT COOLING FAILURE INDICATION

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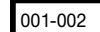
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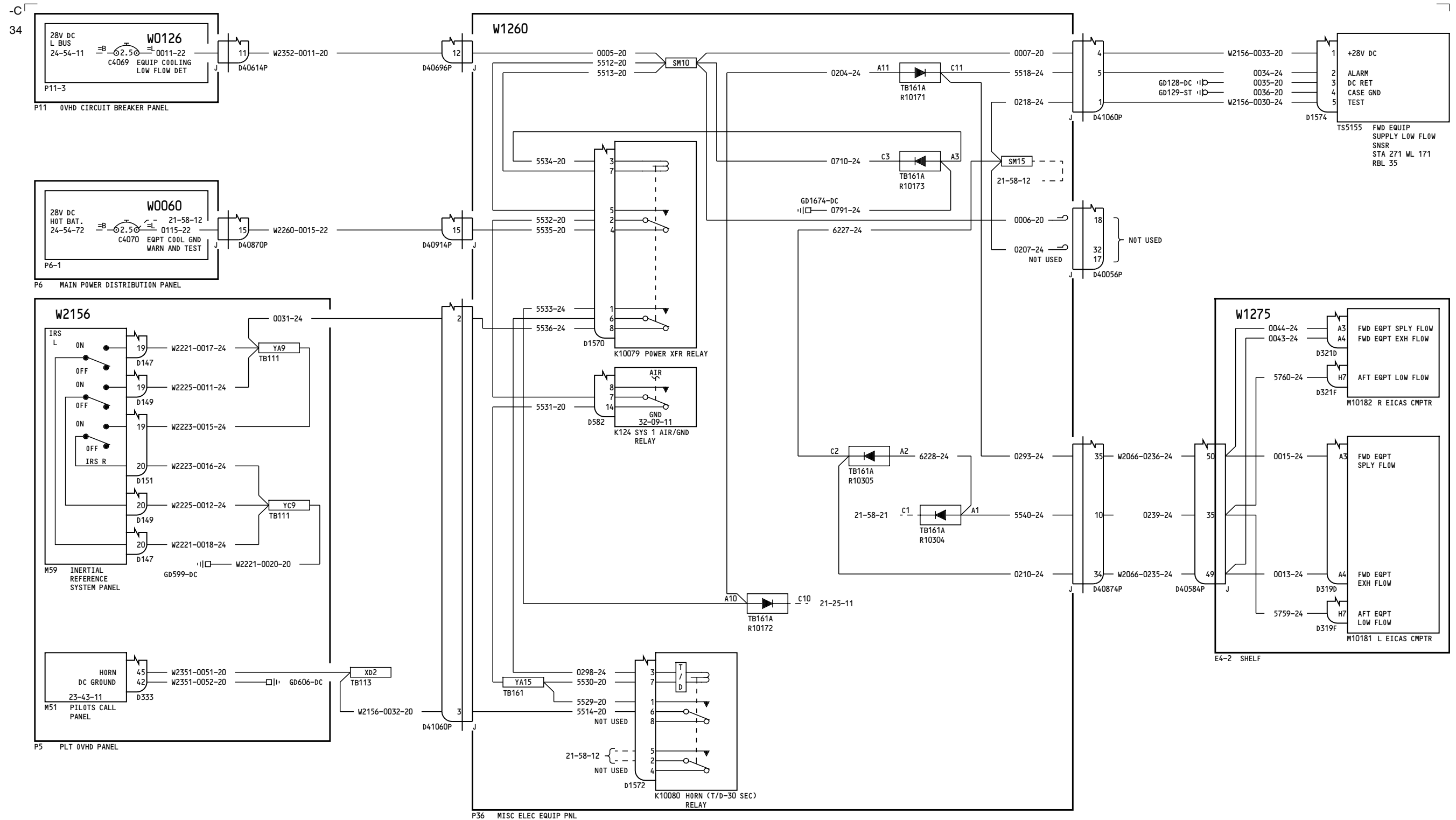
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## EQUIPMENT COOLING FAILURE INDICATION

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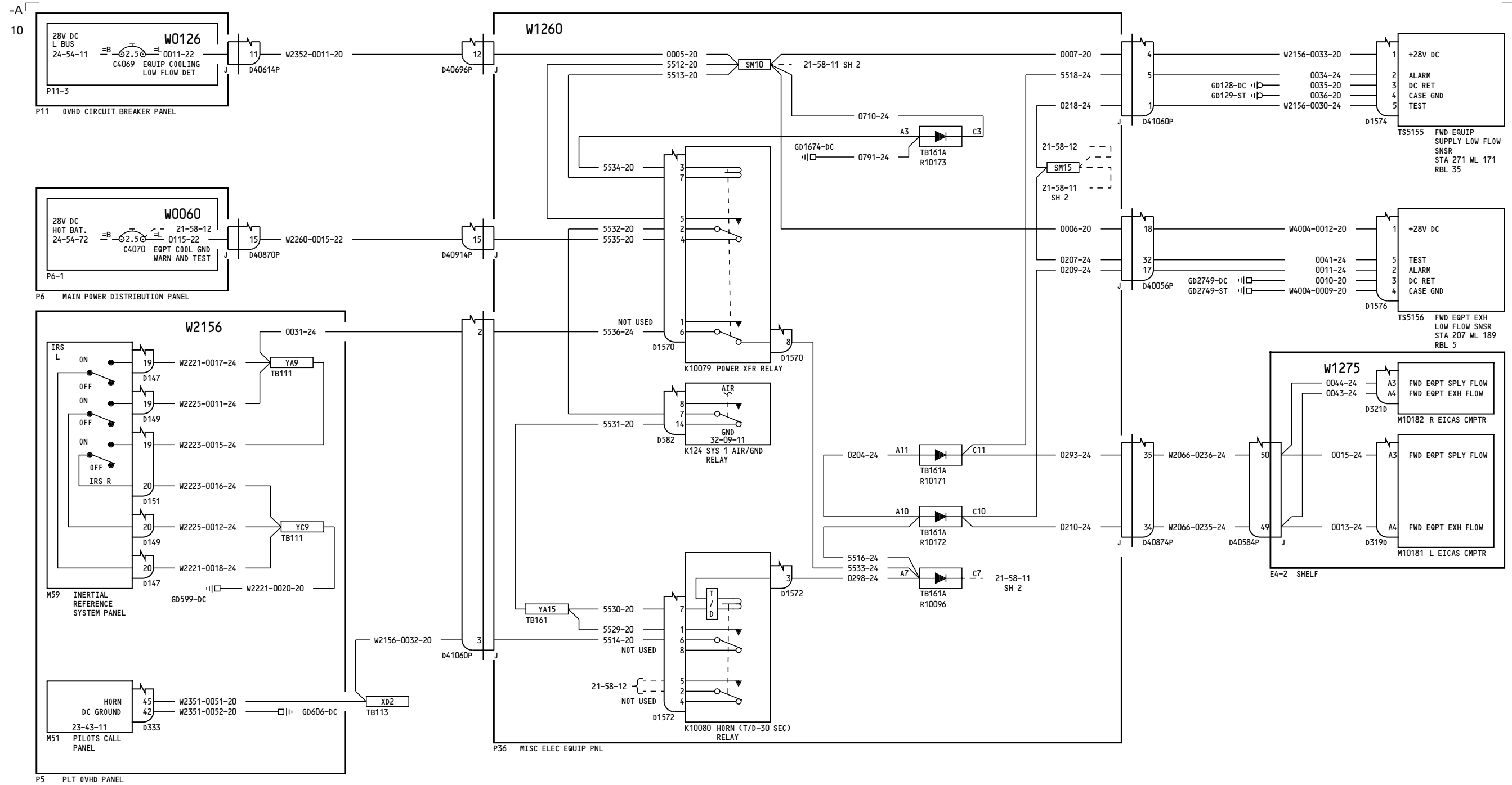
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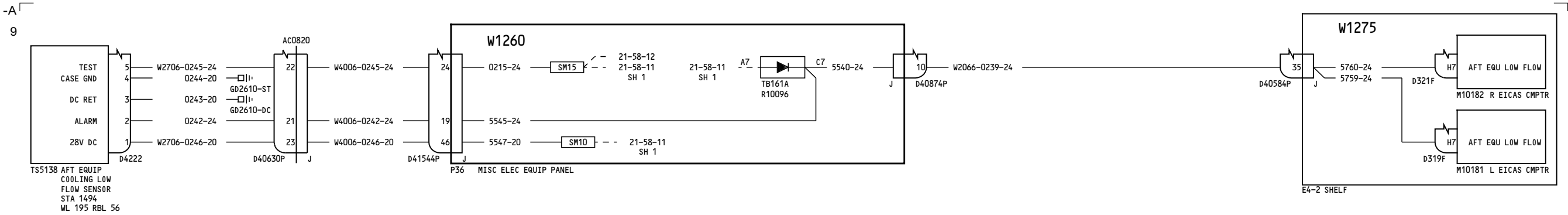
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EQUIPMENT COOLING  
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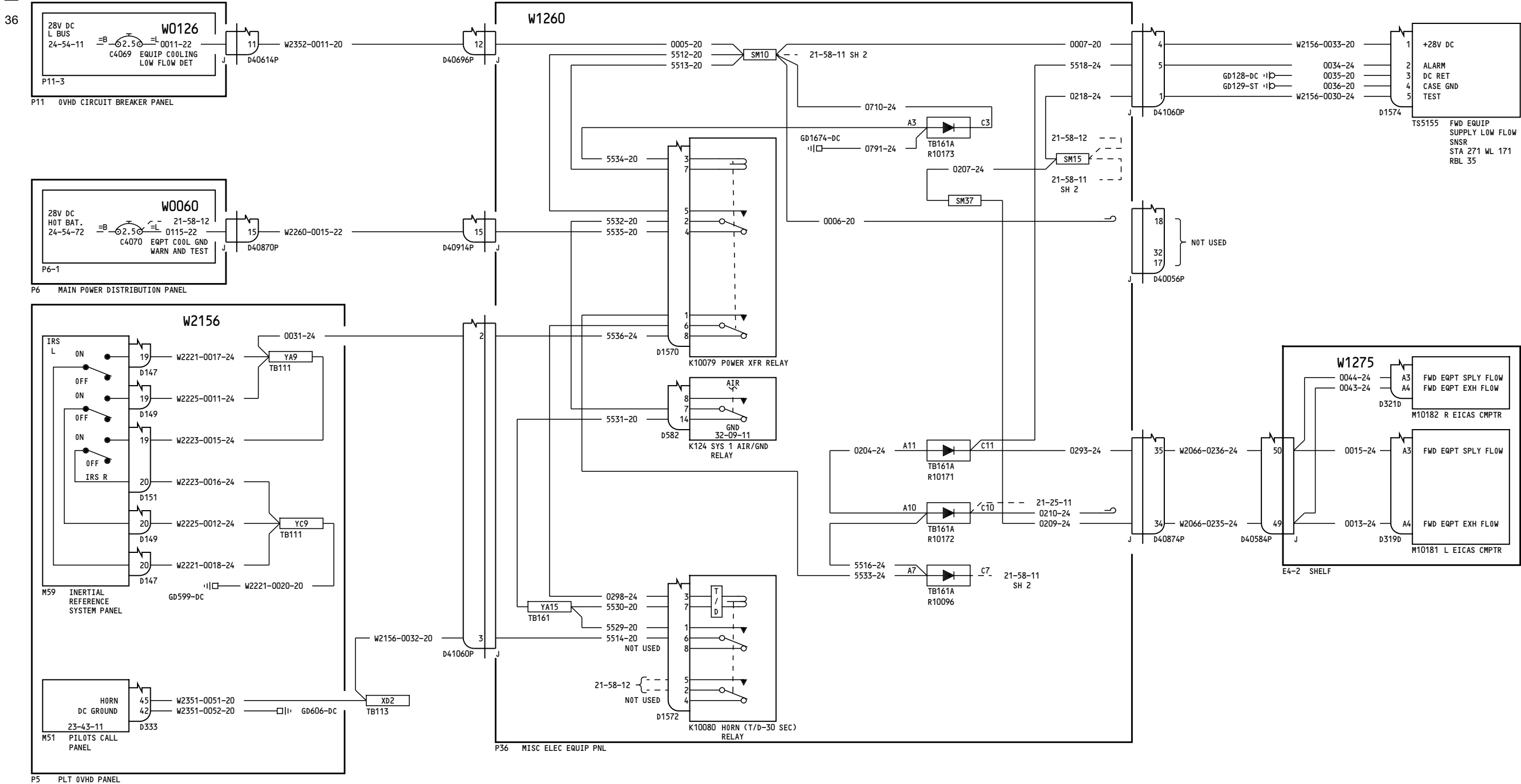
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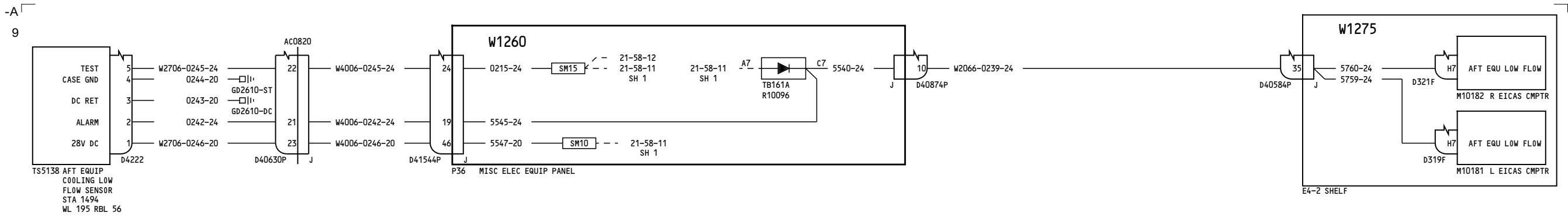
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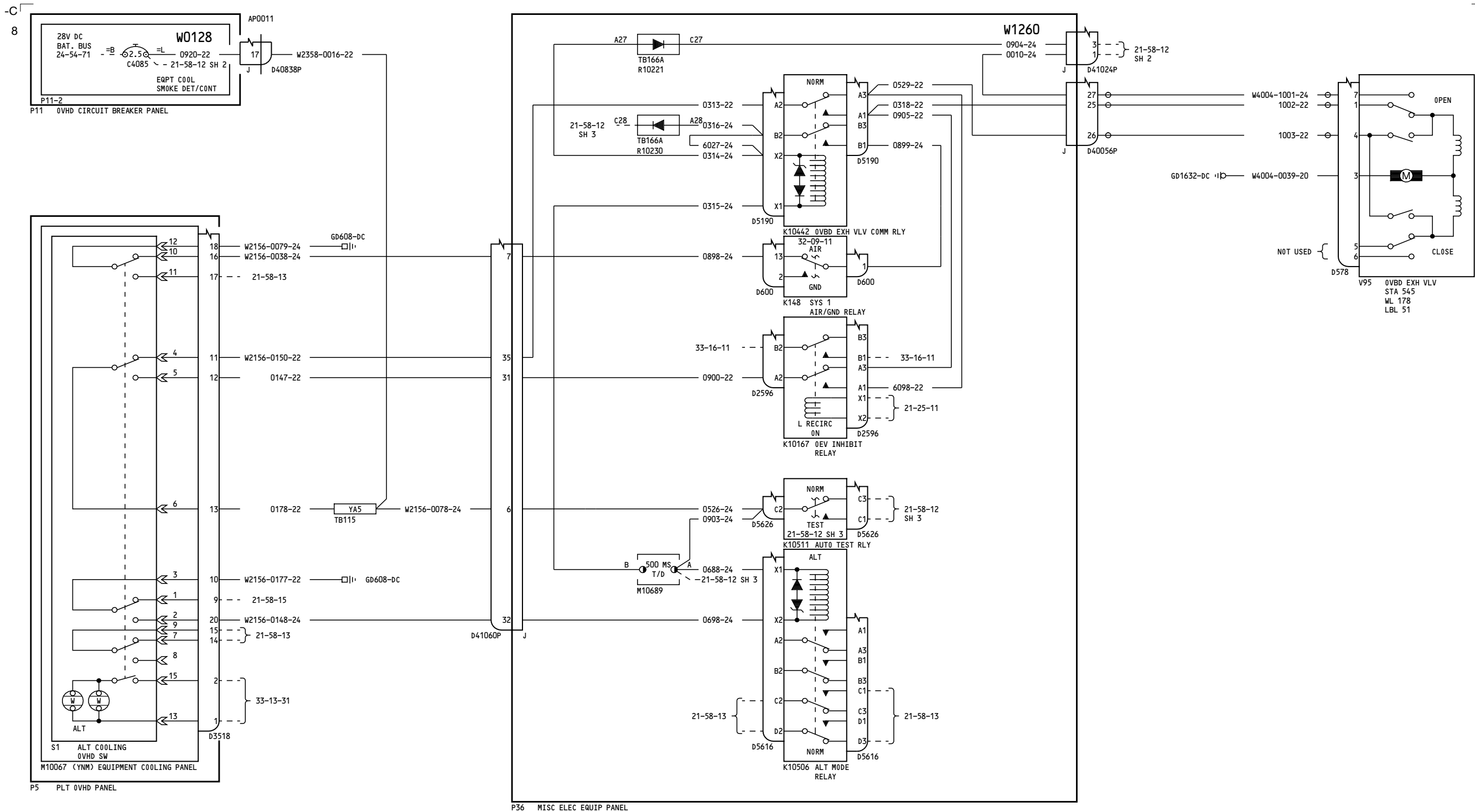
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SMOKE CLEARANCE

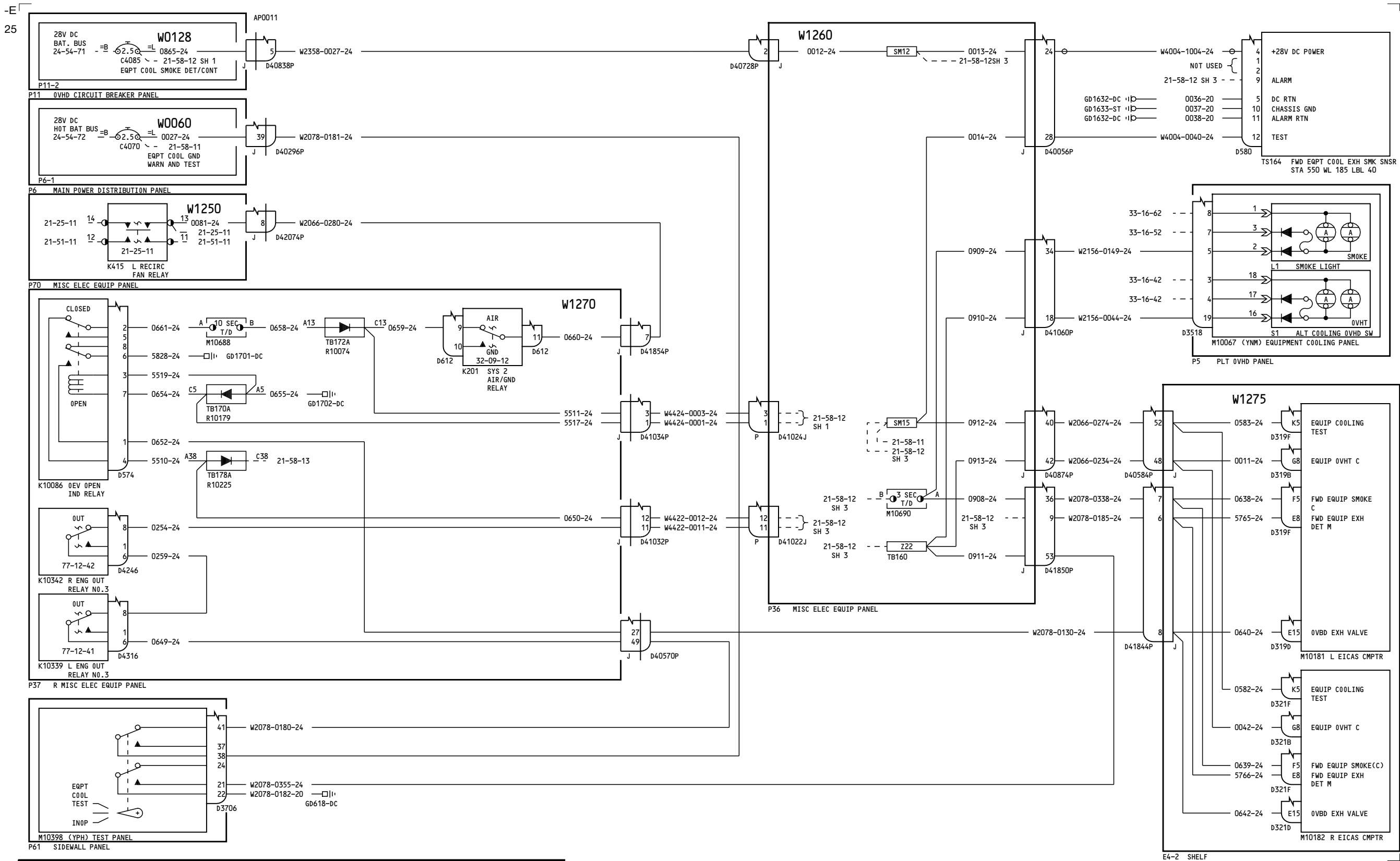
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SMOKE CLEARANCE

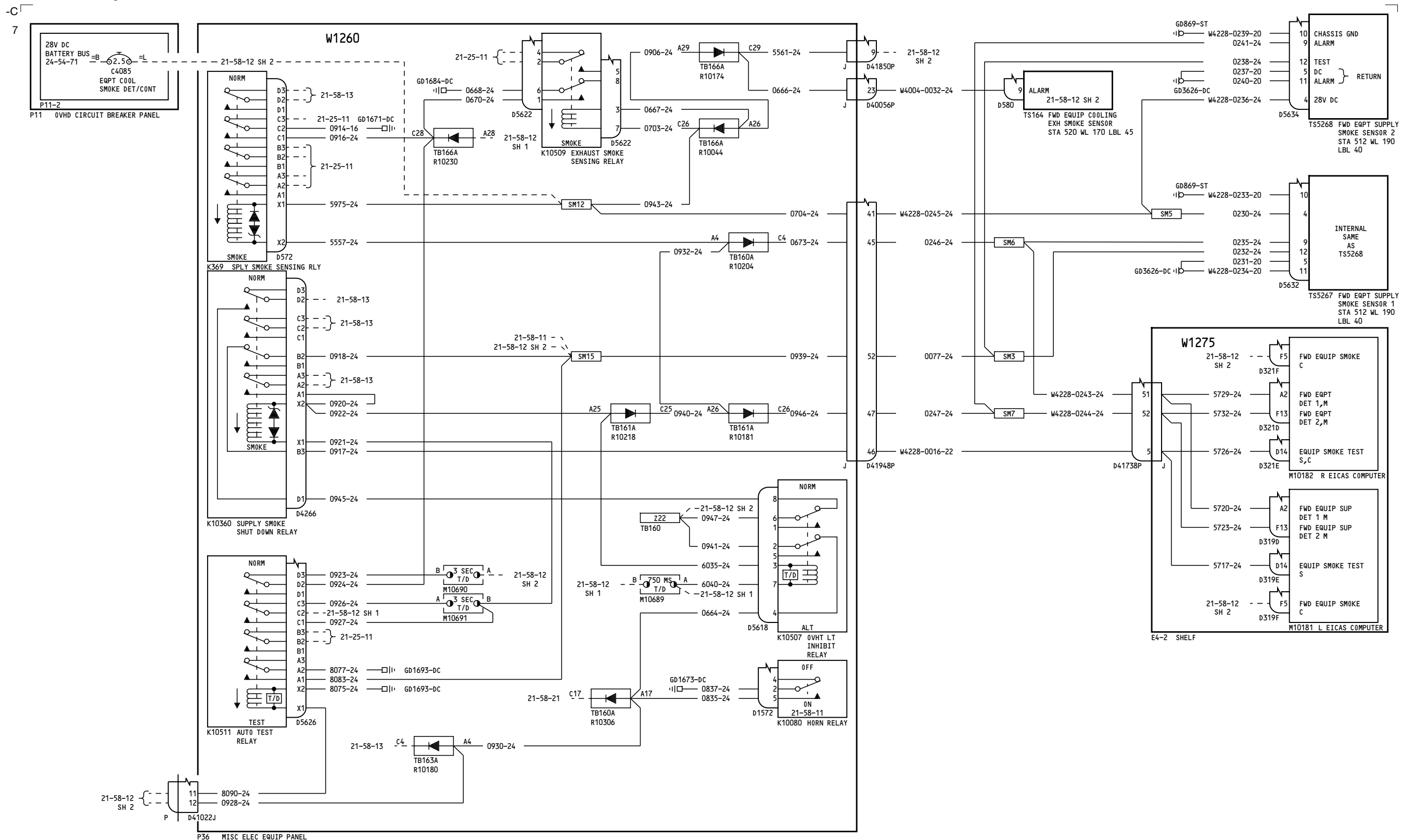
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SMOKE CLEARANCE**

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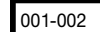
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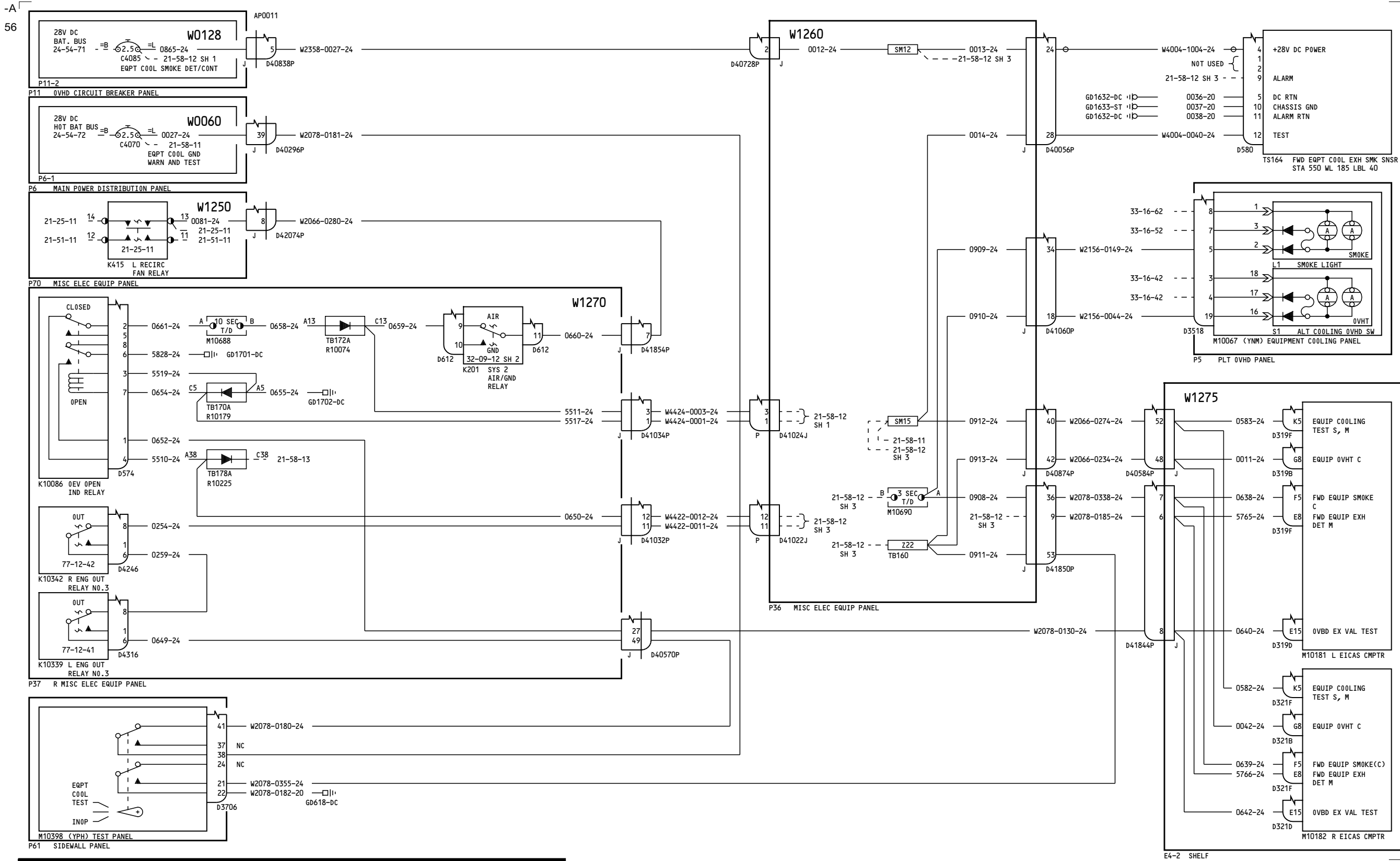


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SMOKE CLEARANCE

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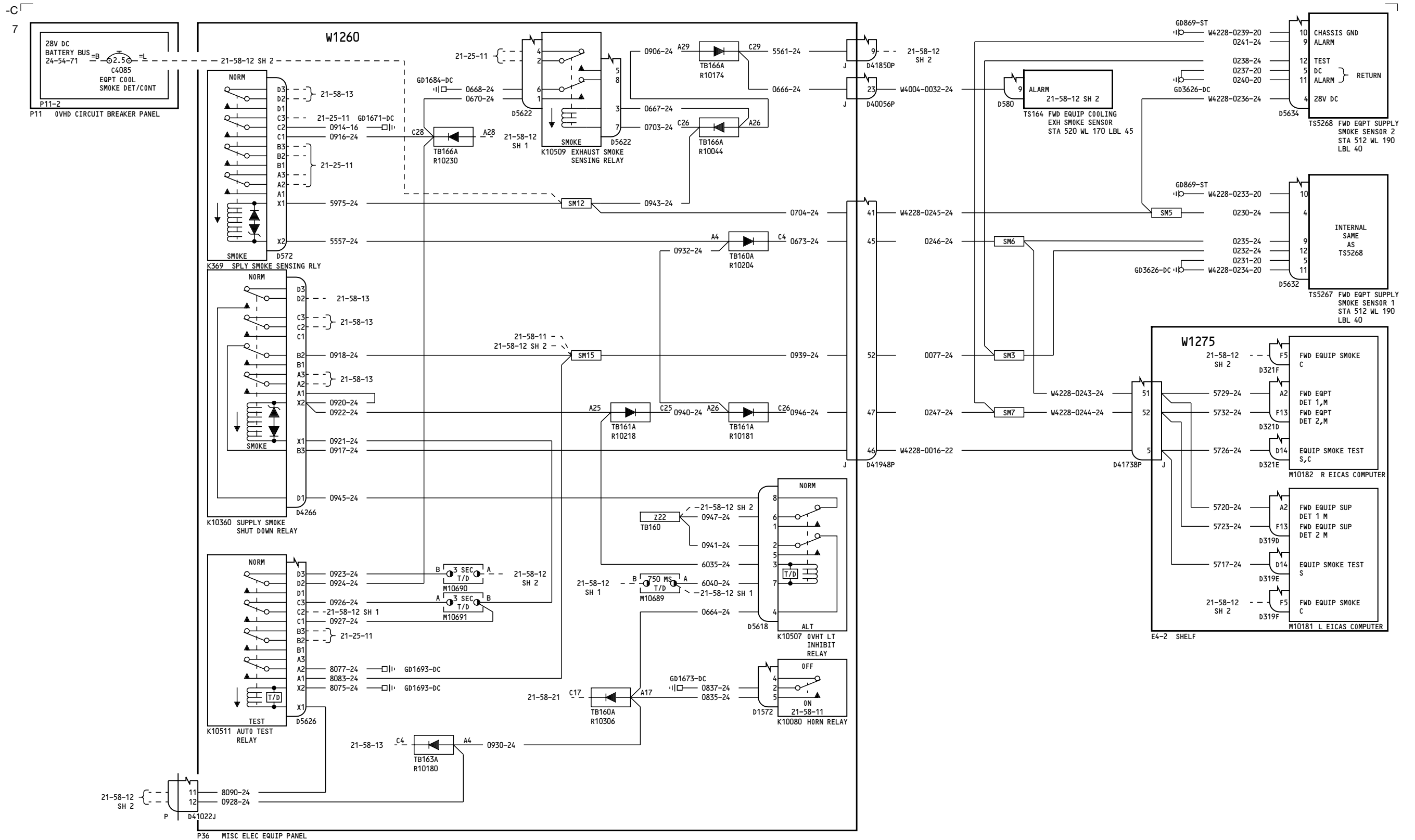
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SMOKE CLEARANCE

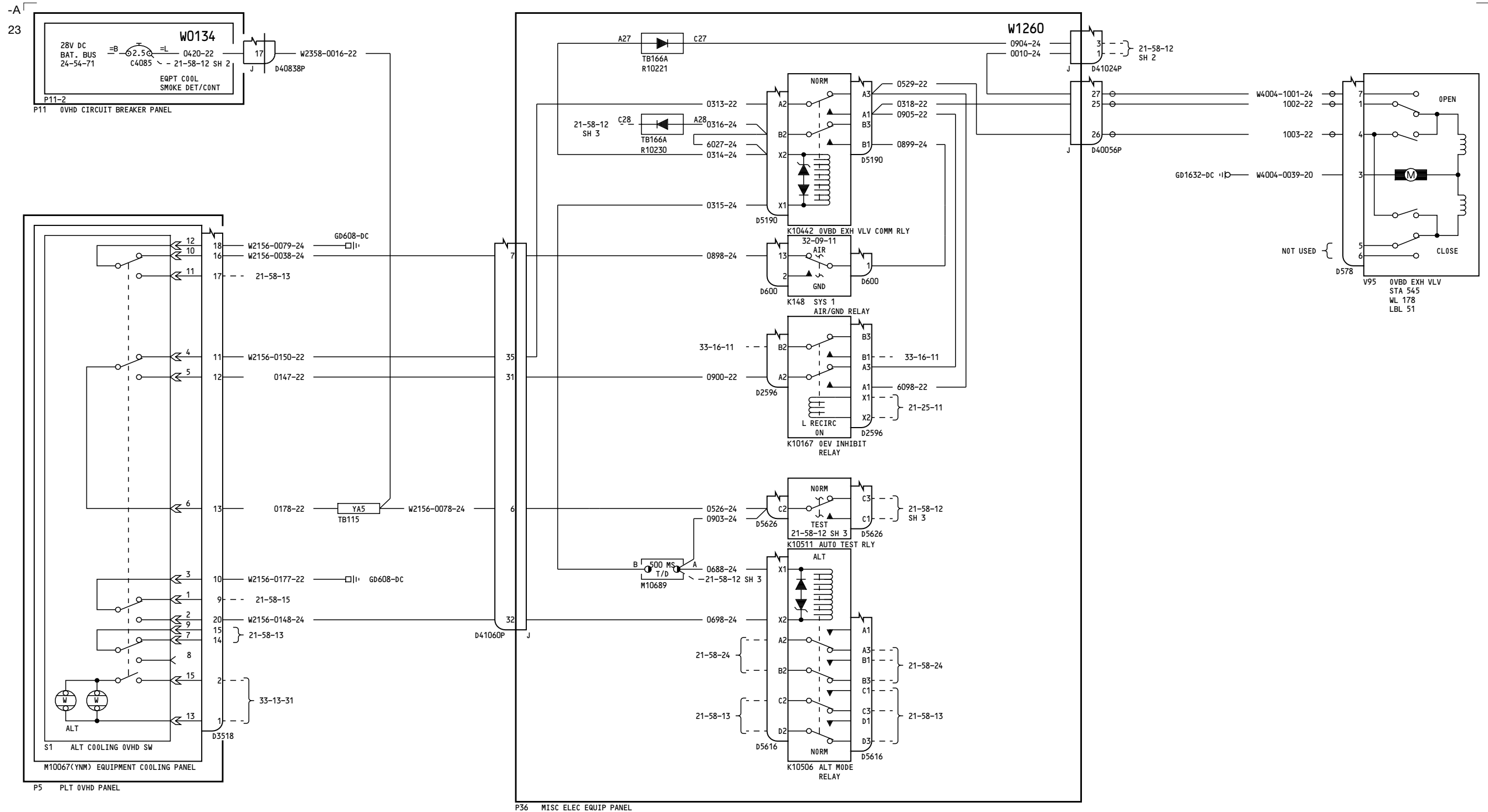
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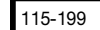
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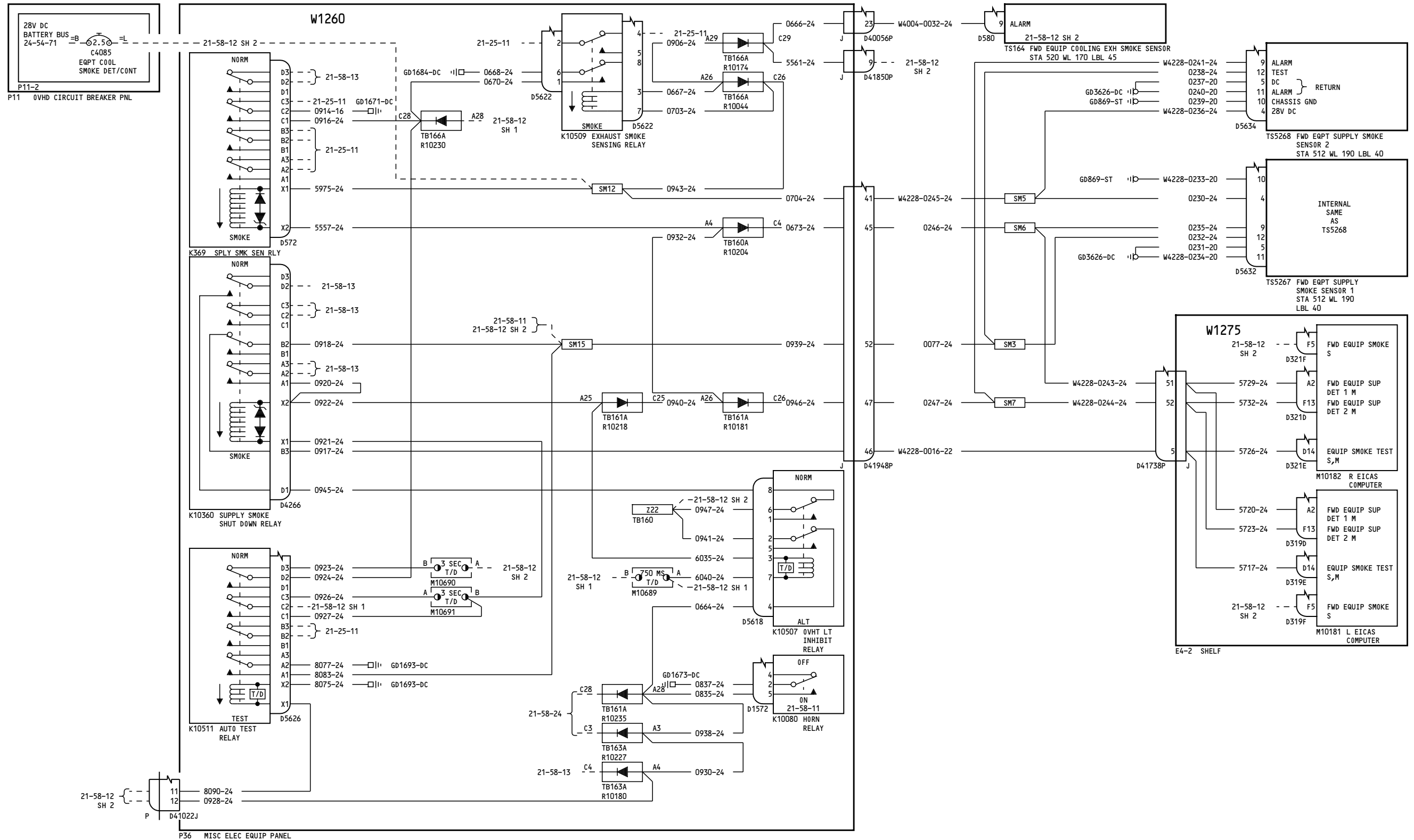
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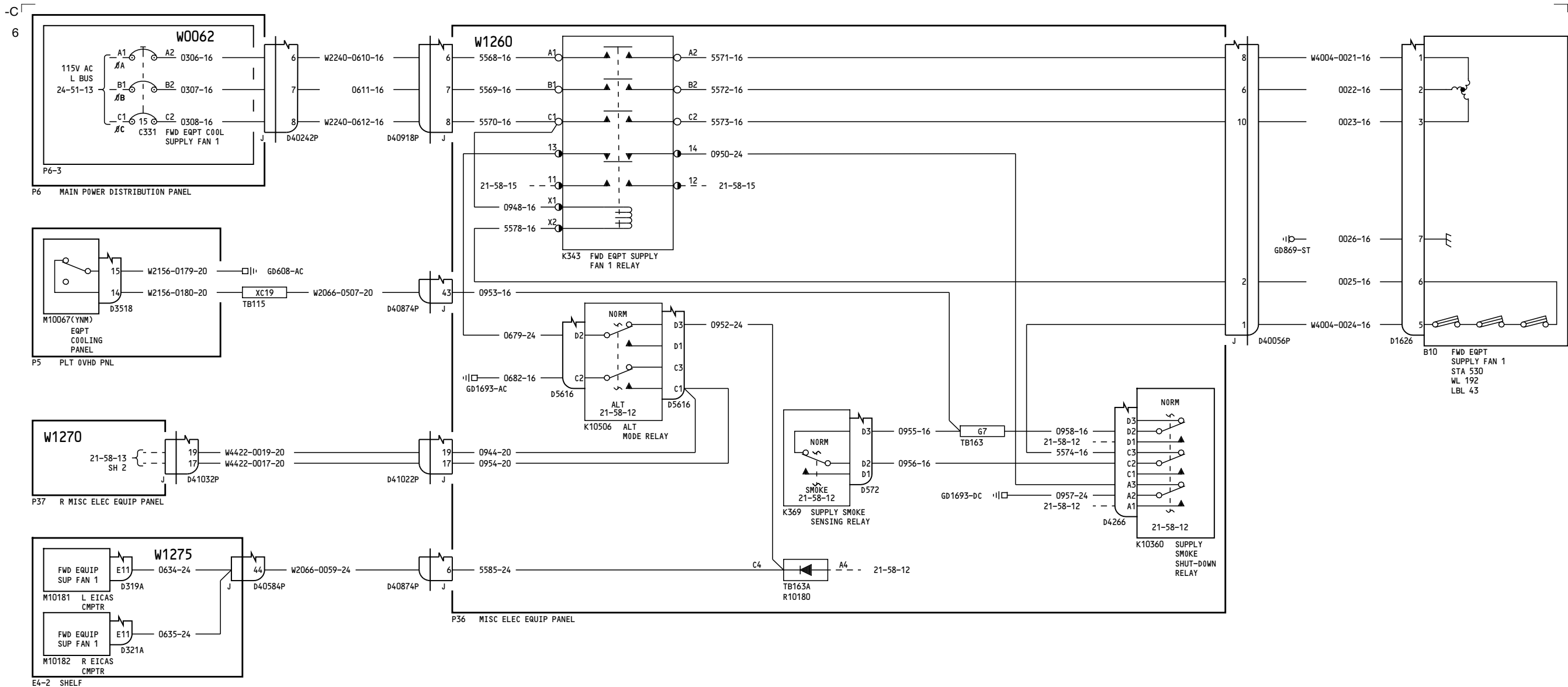
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FORWARD EQUIPMENT  
COOLING - SUPPLY FANS

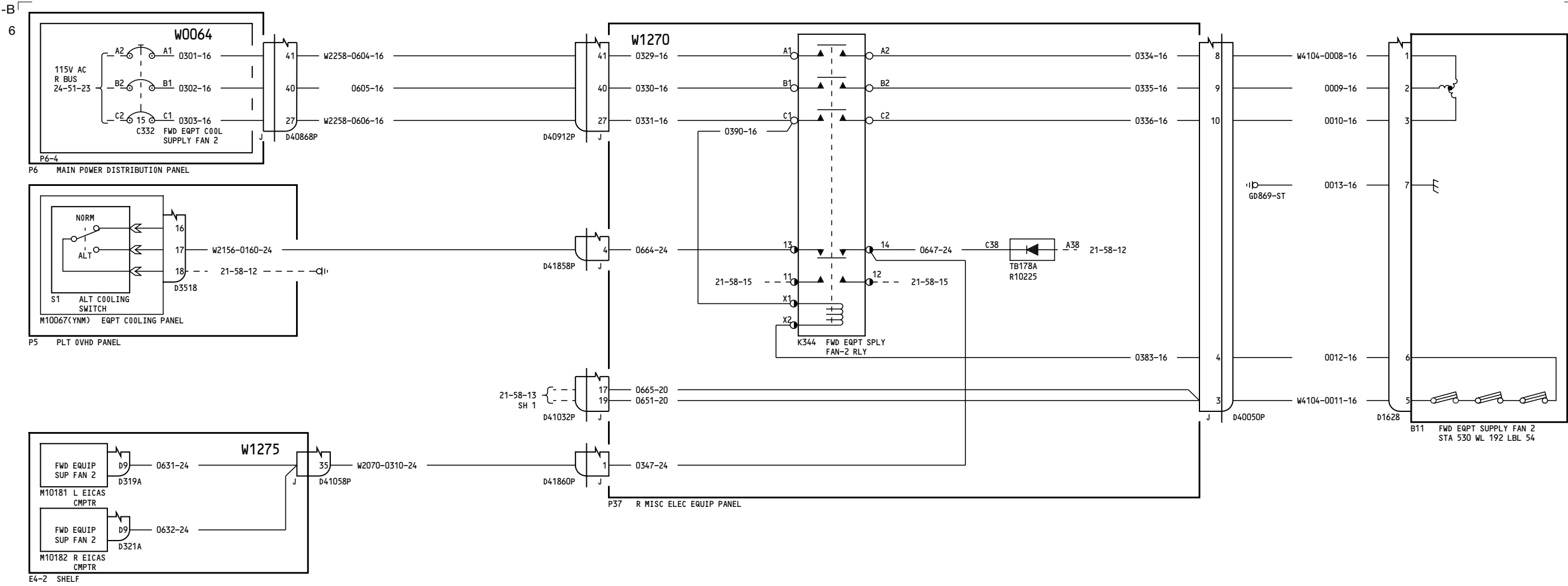
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FORWARD EQUIPMENT  
COOLING - SUPPLY FANS

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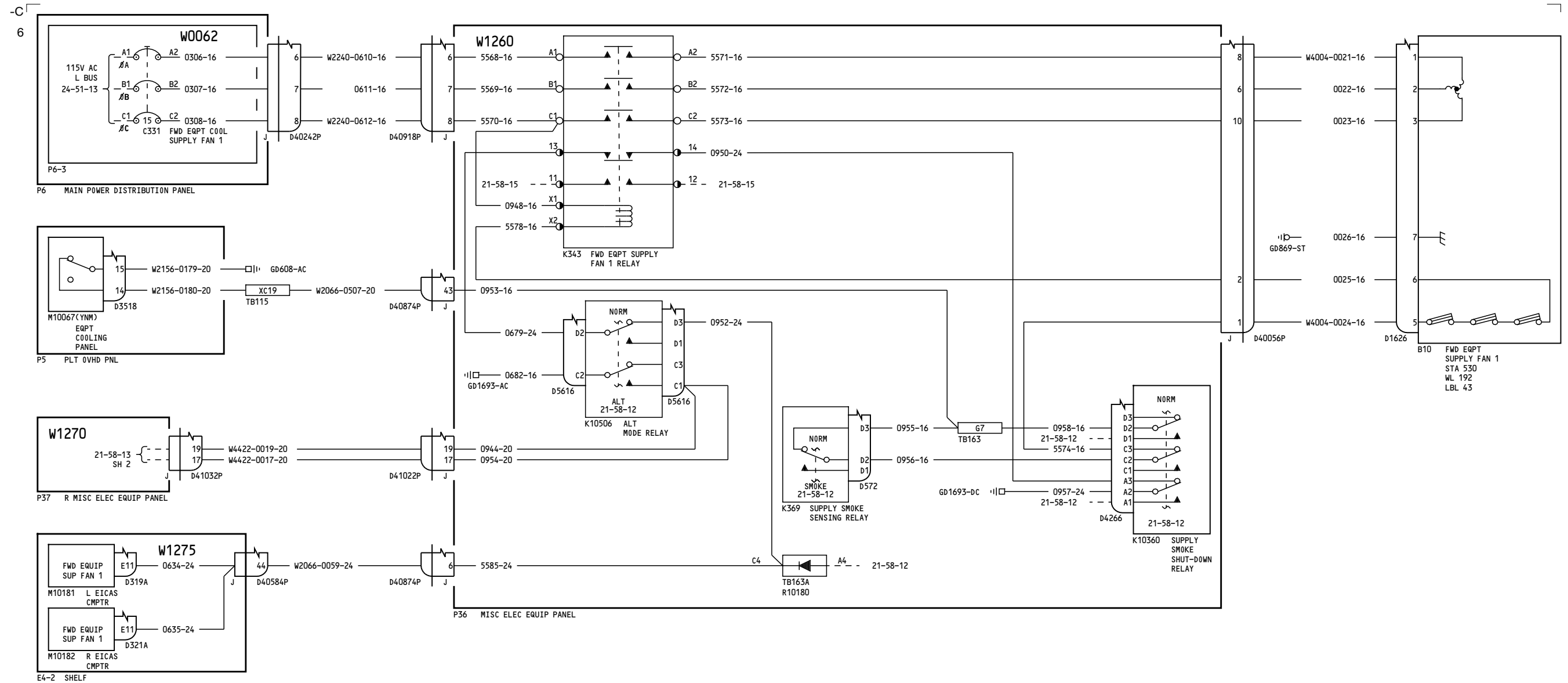
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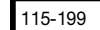
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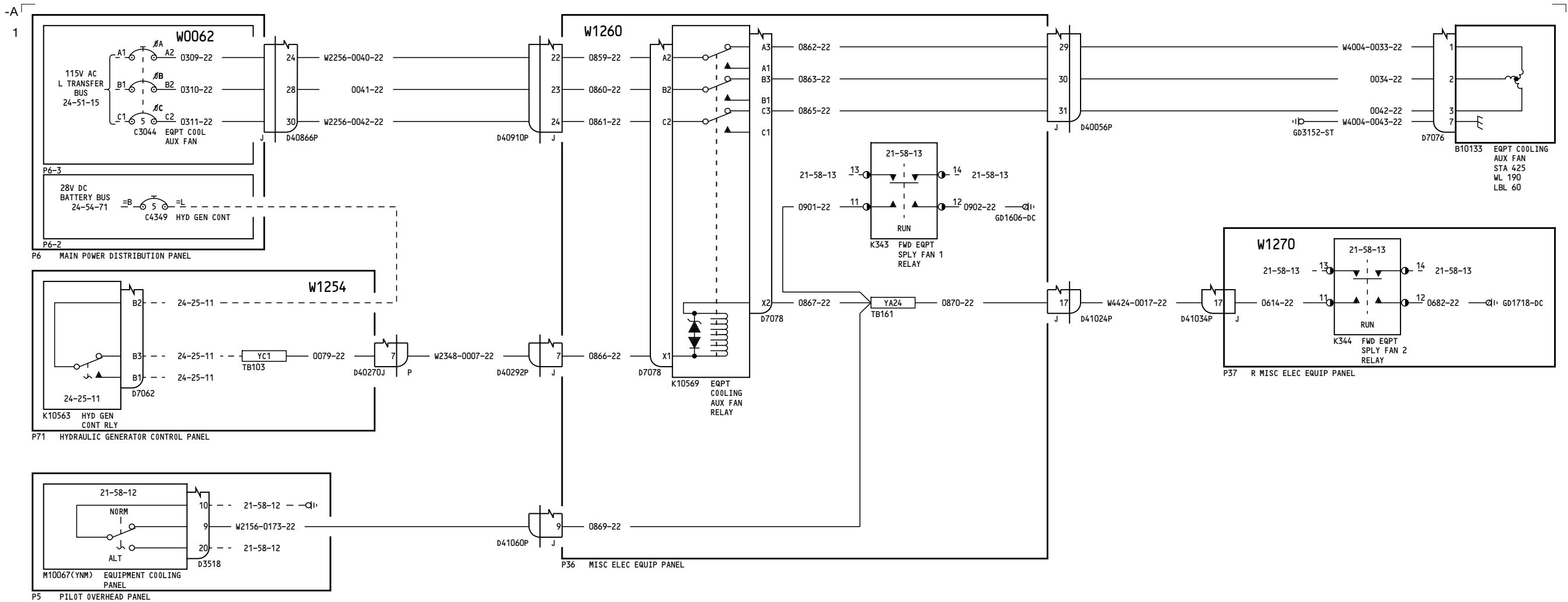
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EQUIPMENT COOLING -  
AUXILIARY FAN

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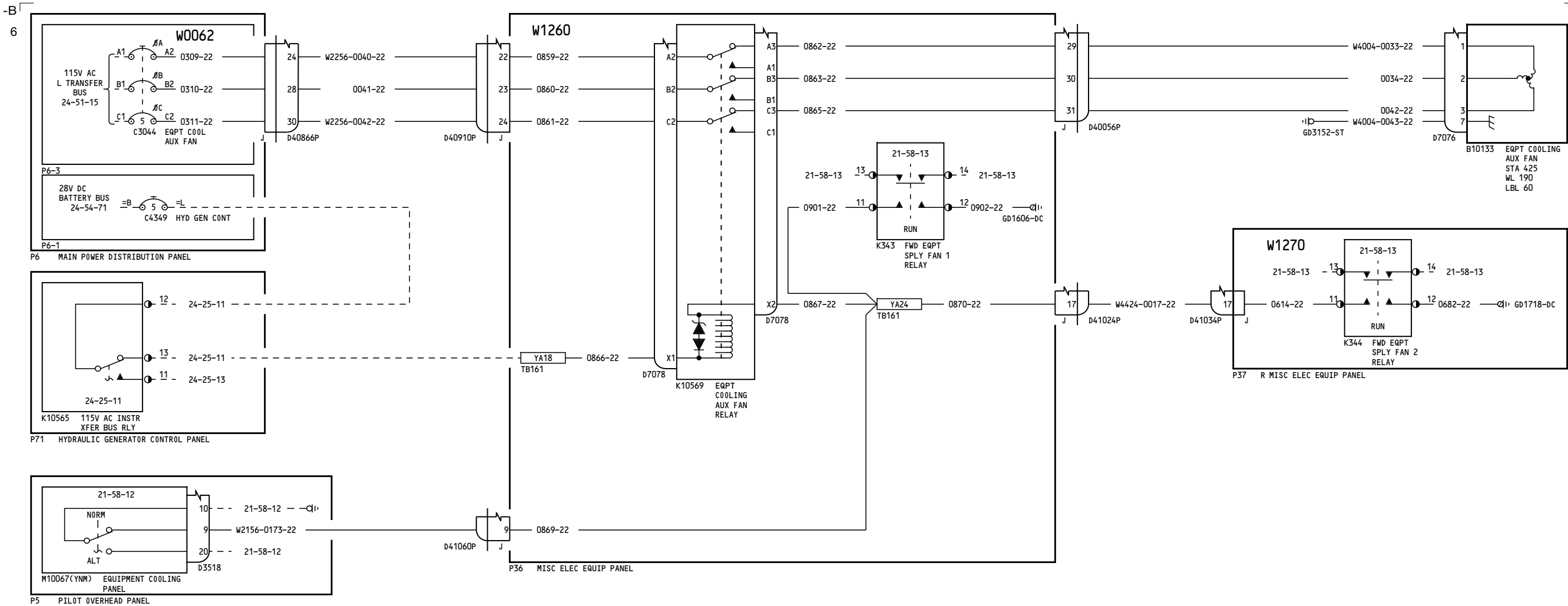
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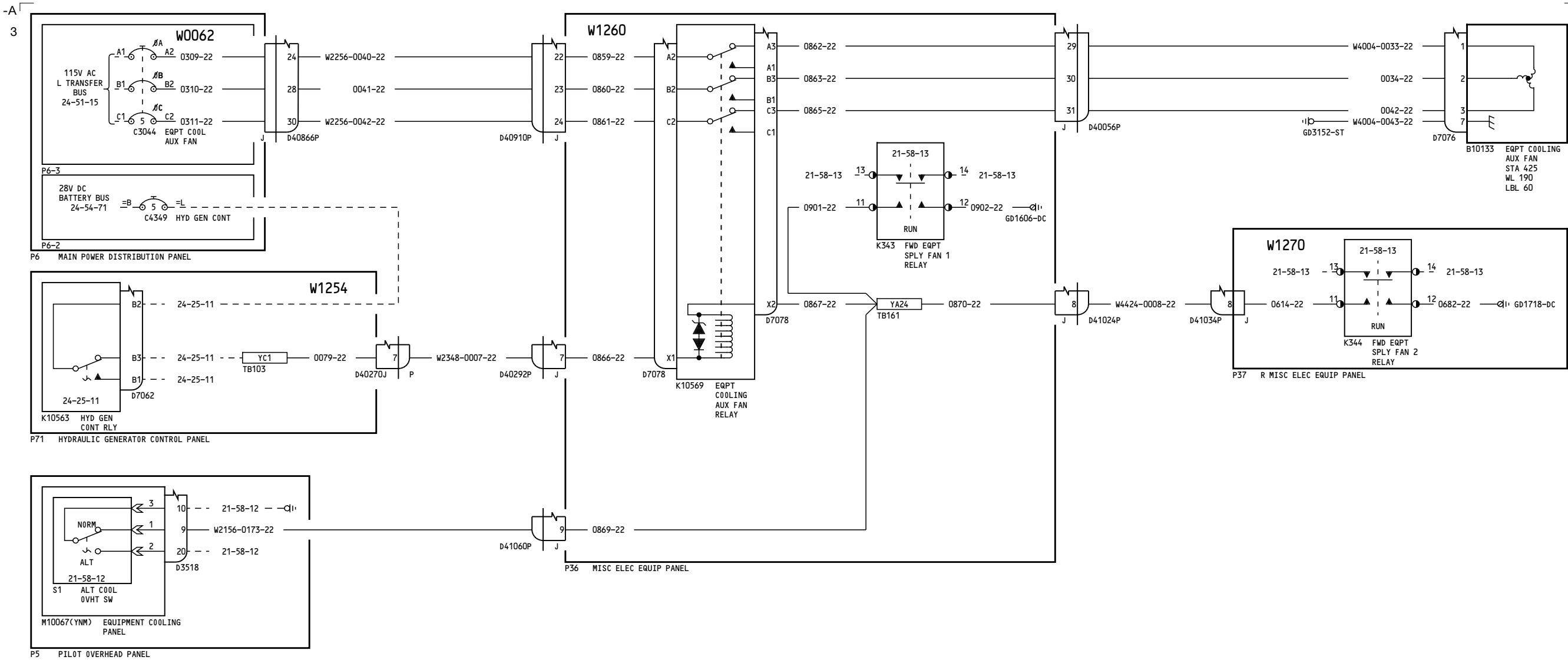
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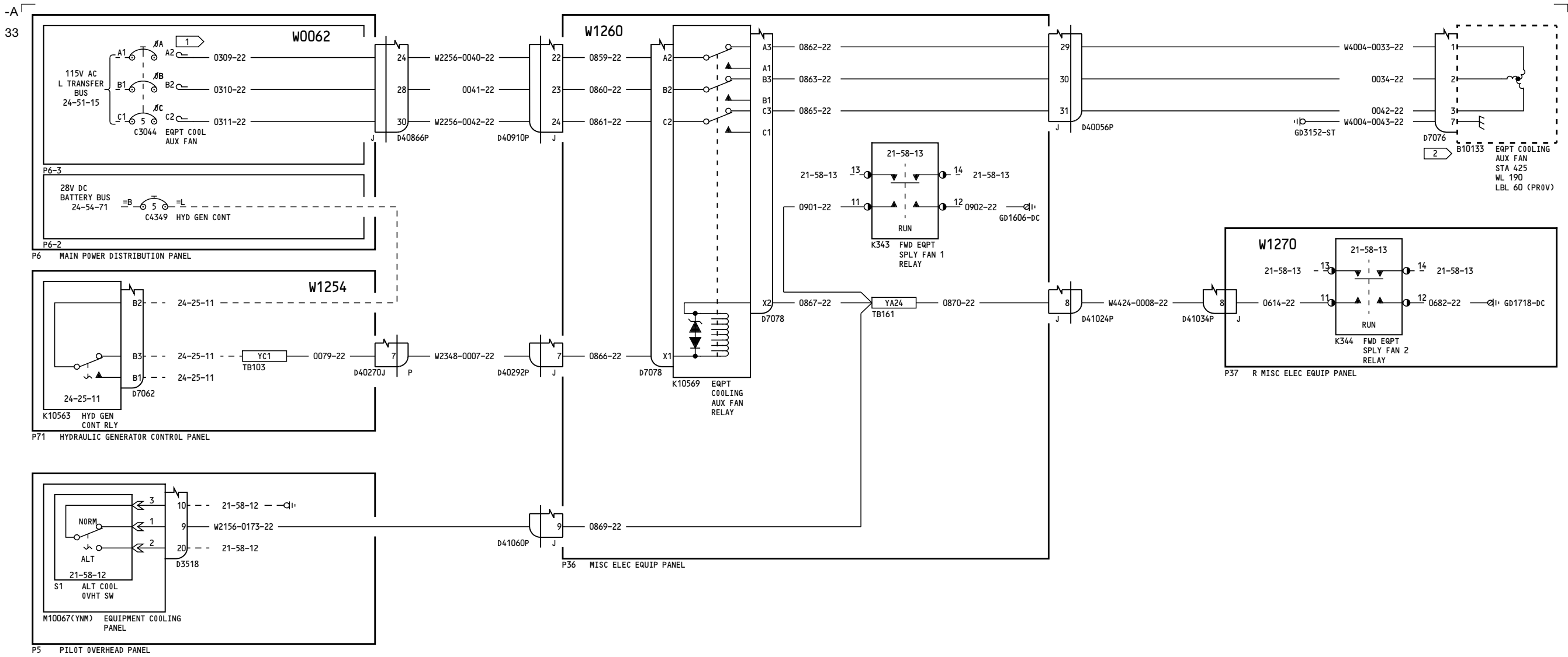
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NOTES:

- 1 COLLARED AND LABELED "INOP". CAP AND STOW NEAR C3044
- 2 CAP AND STOW CONNECTOR D7076.



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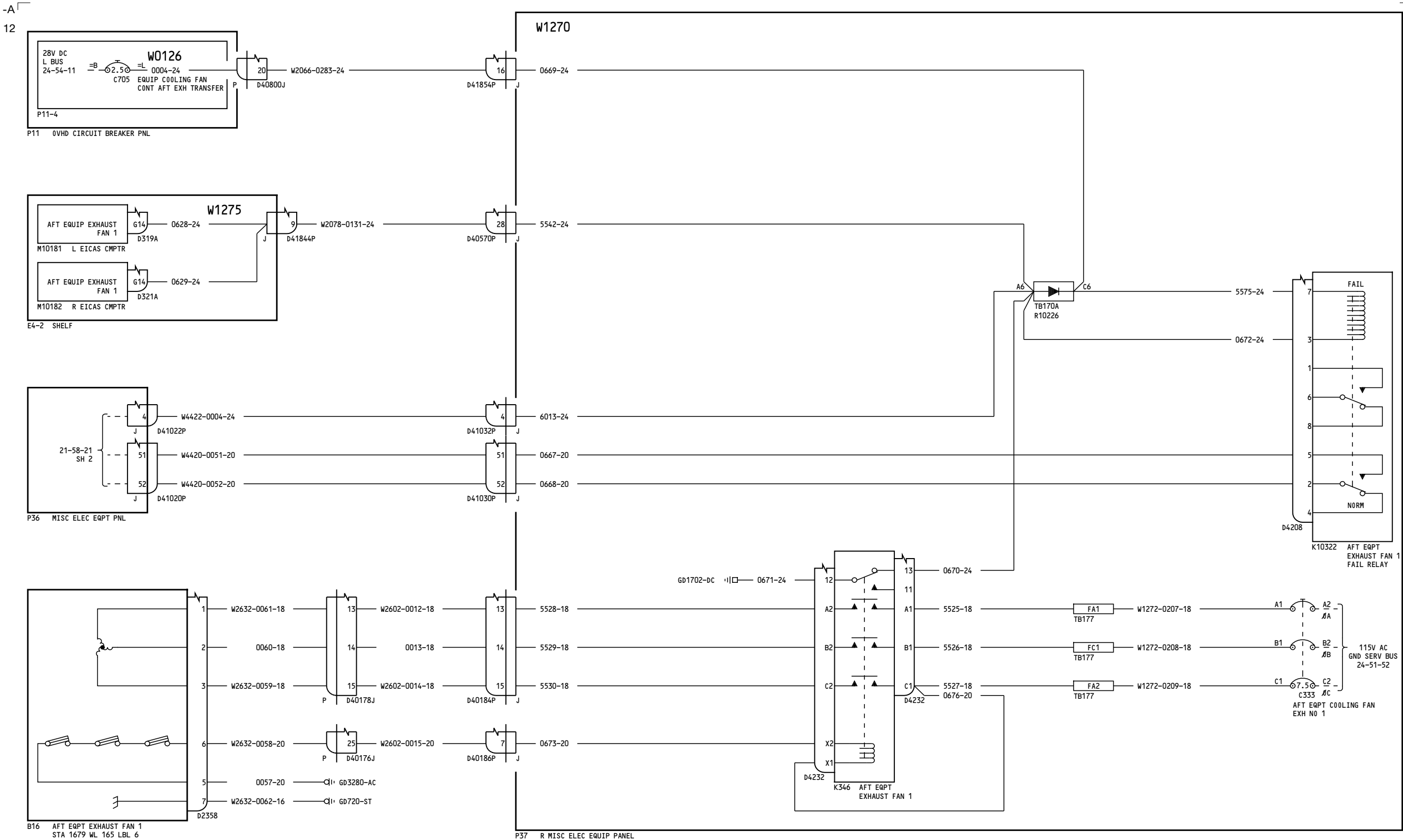
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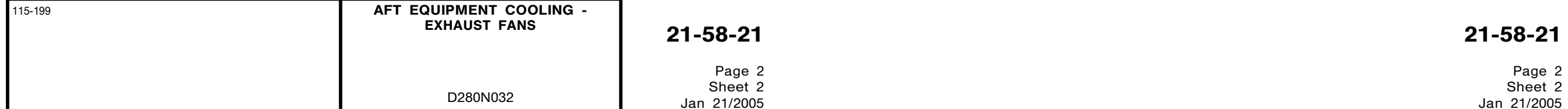
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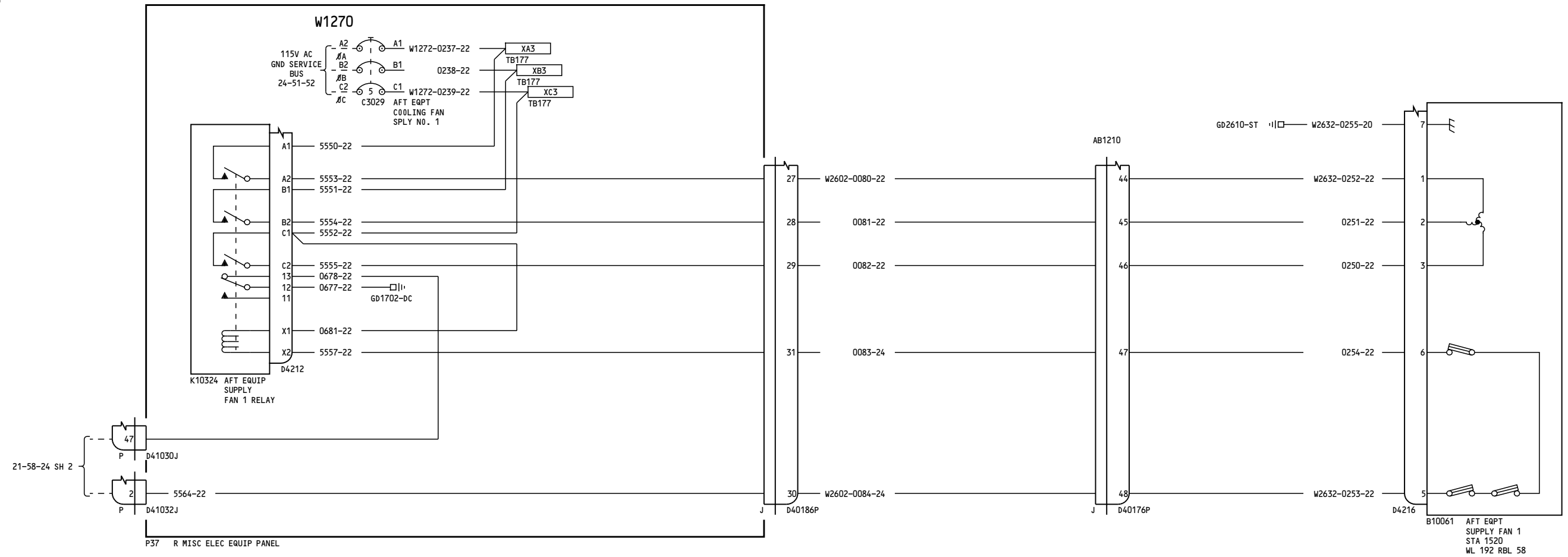
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**AFT EQUIPMENT COOLING -  
SUPPLY FANS**

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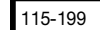
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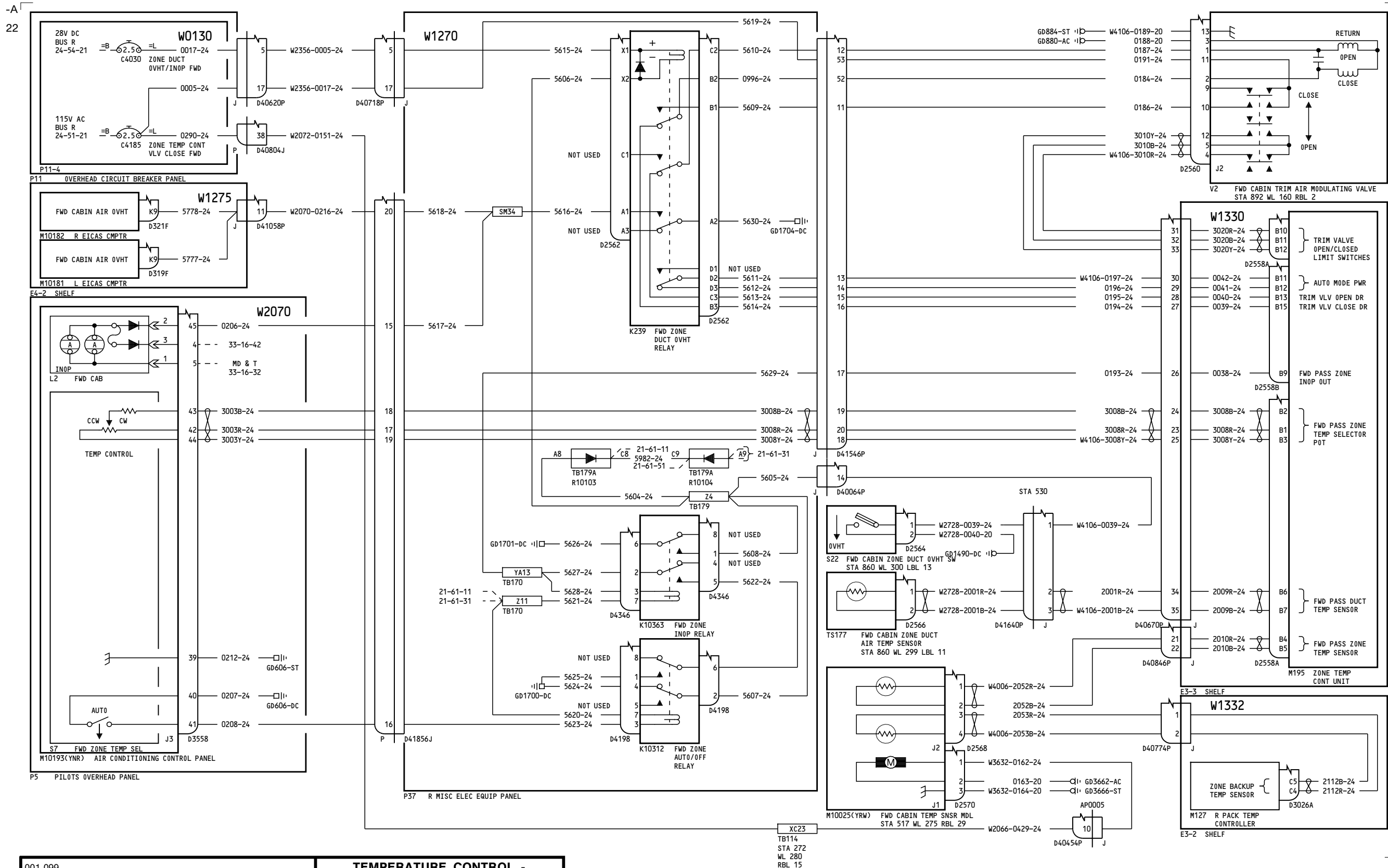
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## TEMPERATURE CONTROL - FORWARD PASSENGER ZONE

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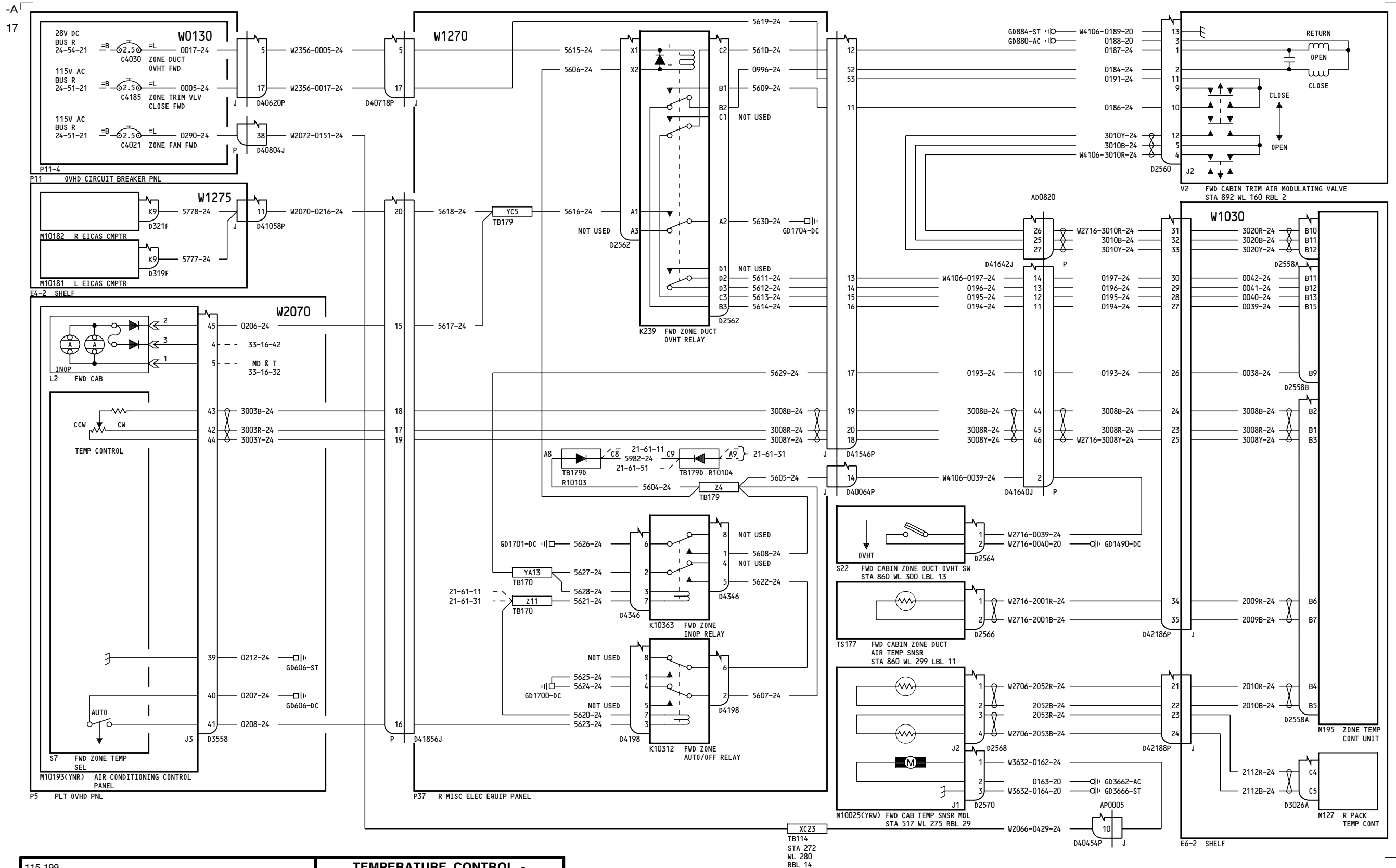
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## TEMPERATURE CONTROL - FORWARD PASSENGER ZONE

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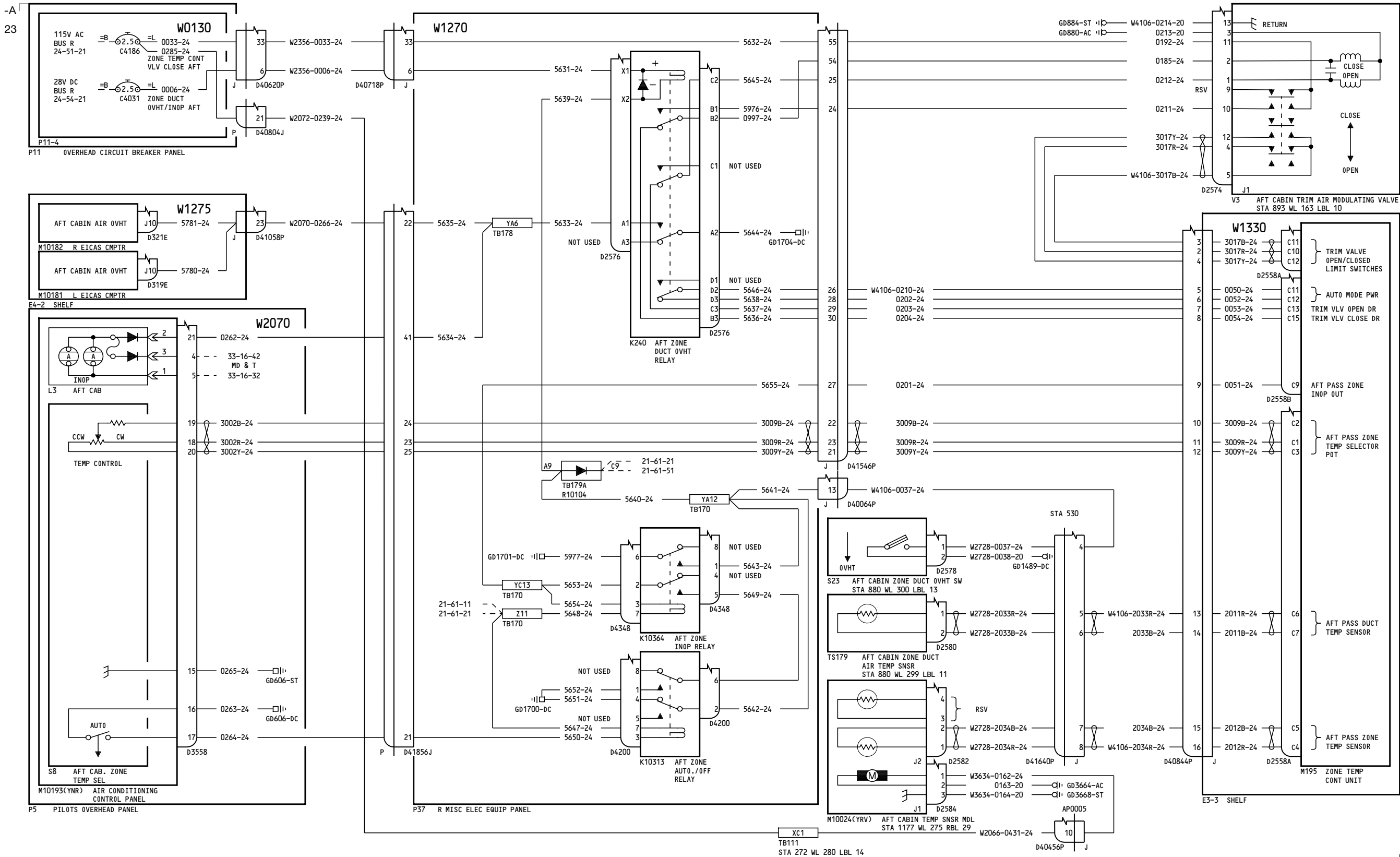
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AFT PASSENGER ZONE

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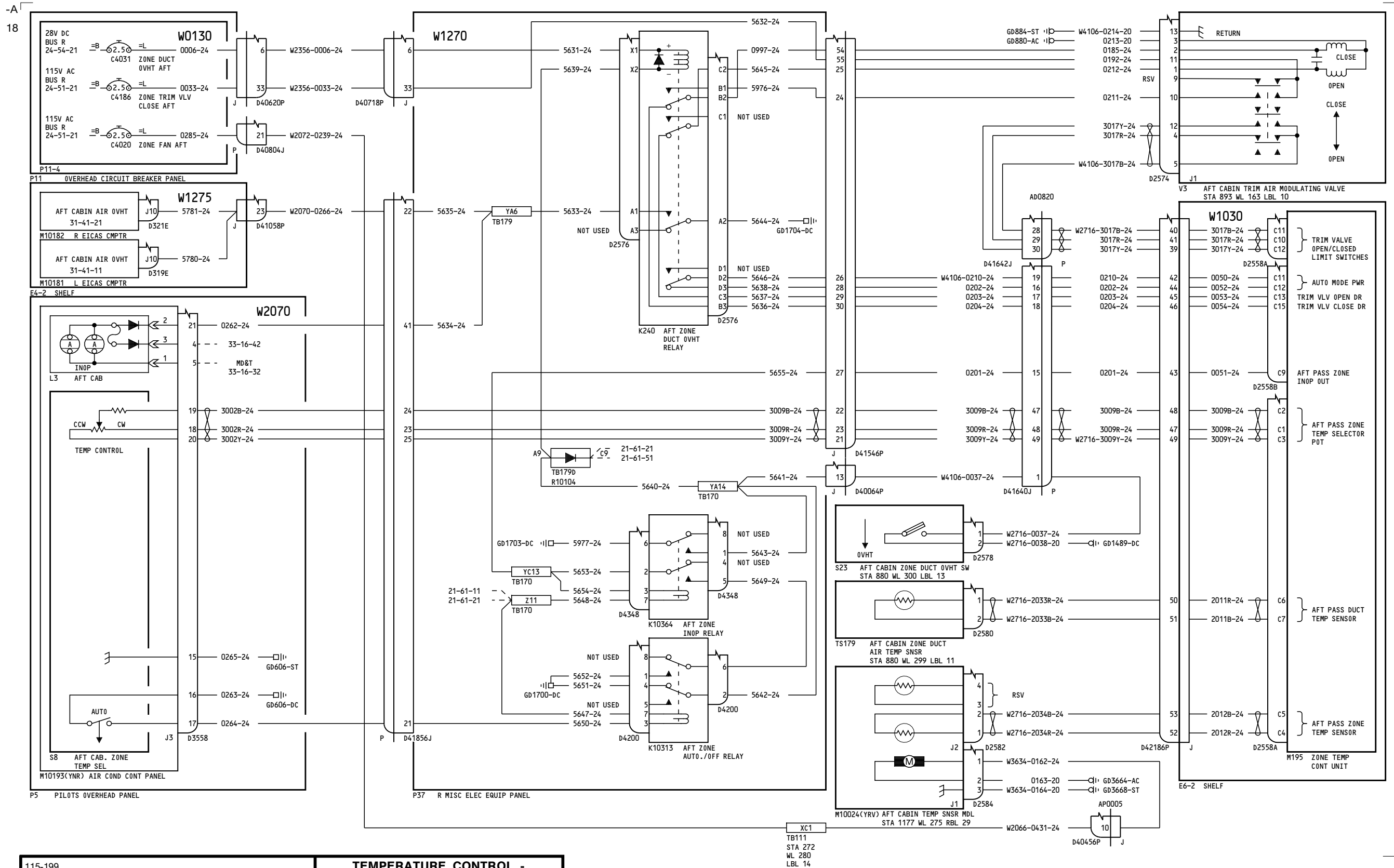
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AFT PASSENGER ZONE

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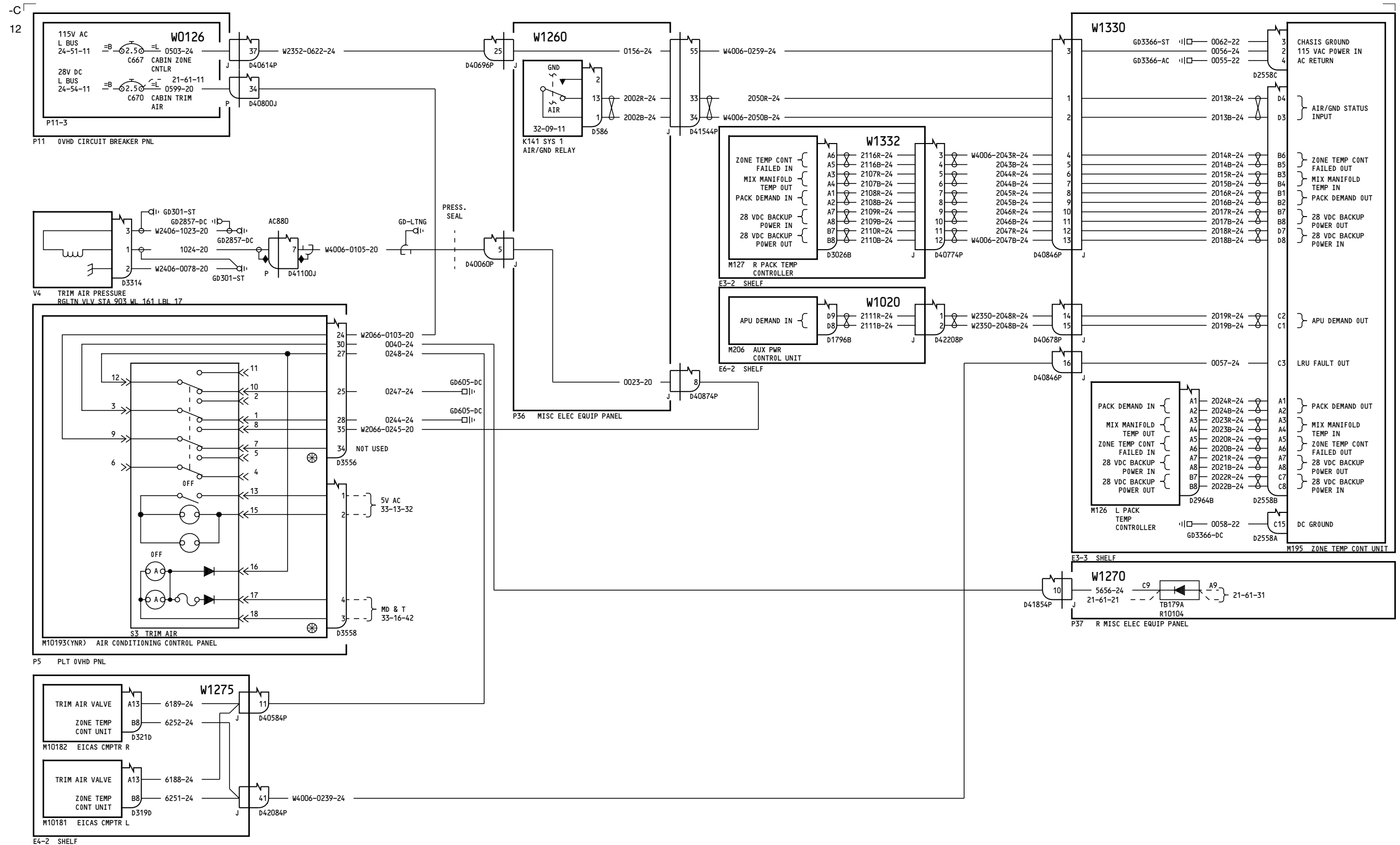
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### TEMPERATURE CONTROL - TRIM PRESSURE REGULATION

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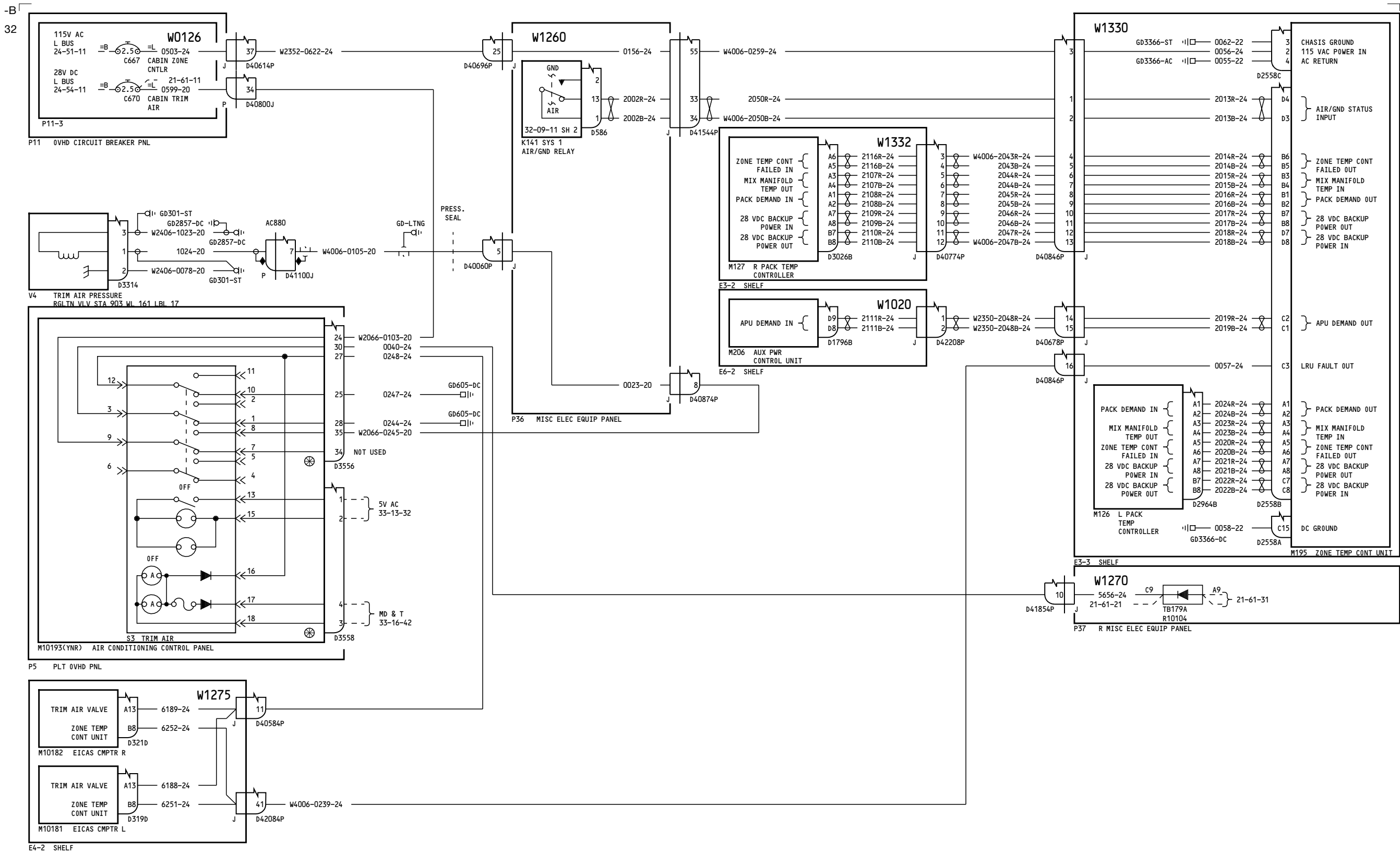
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TRIM PRESSURE REGULATION

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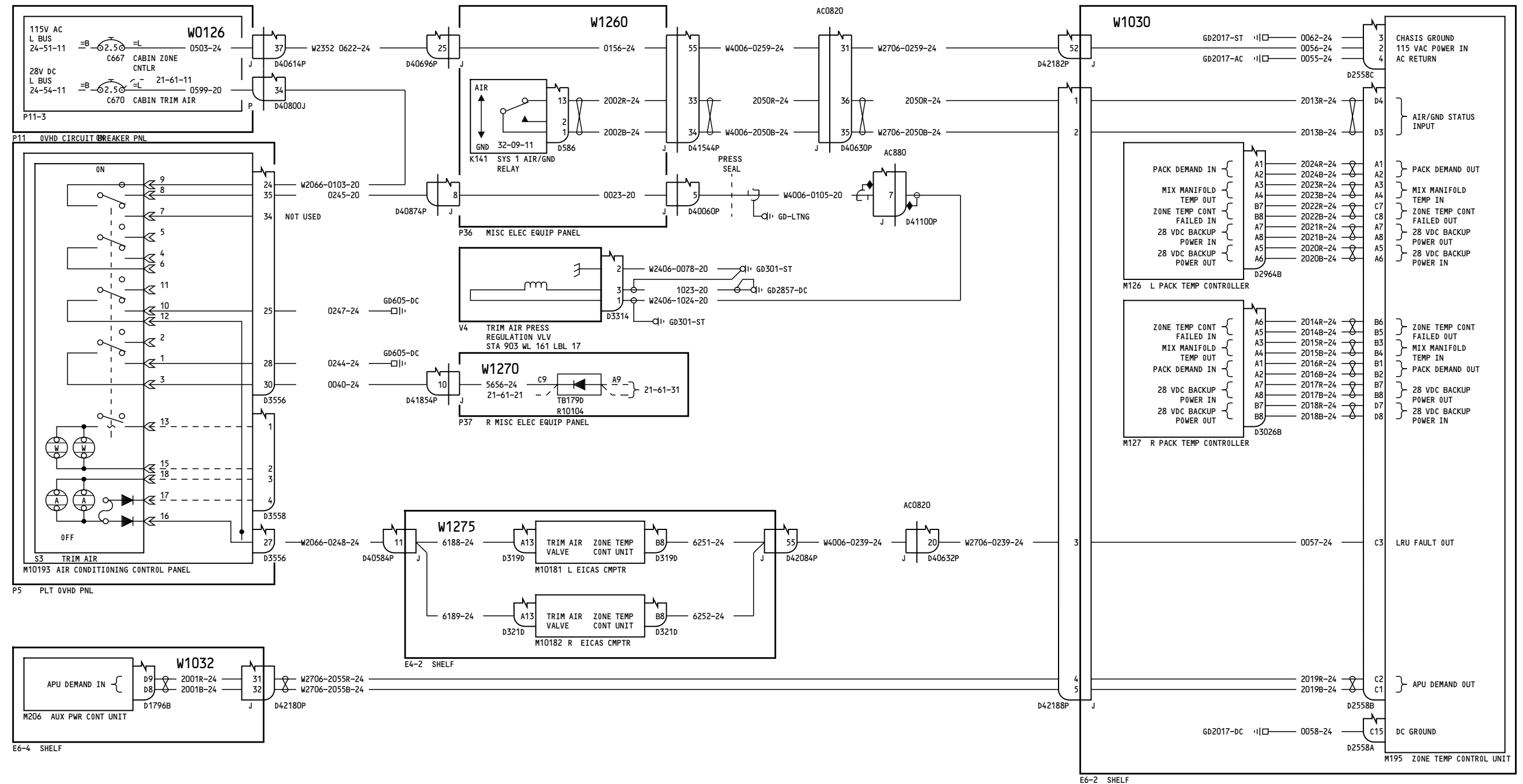
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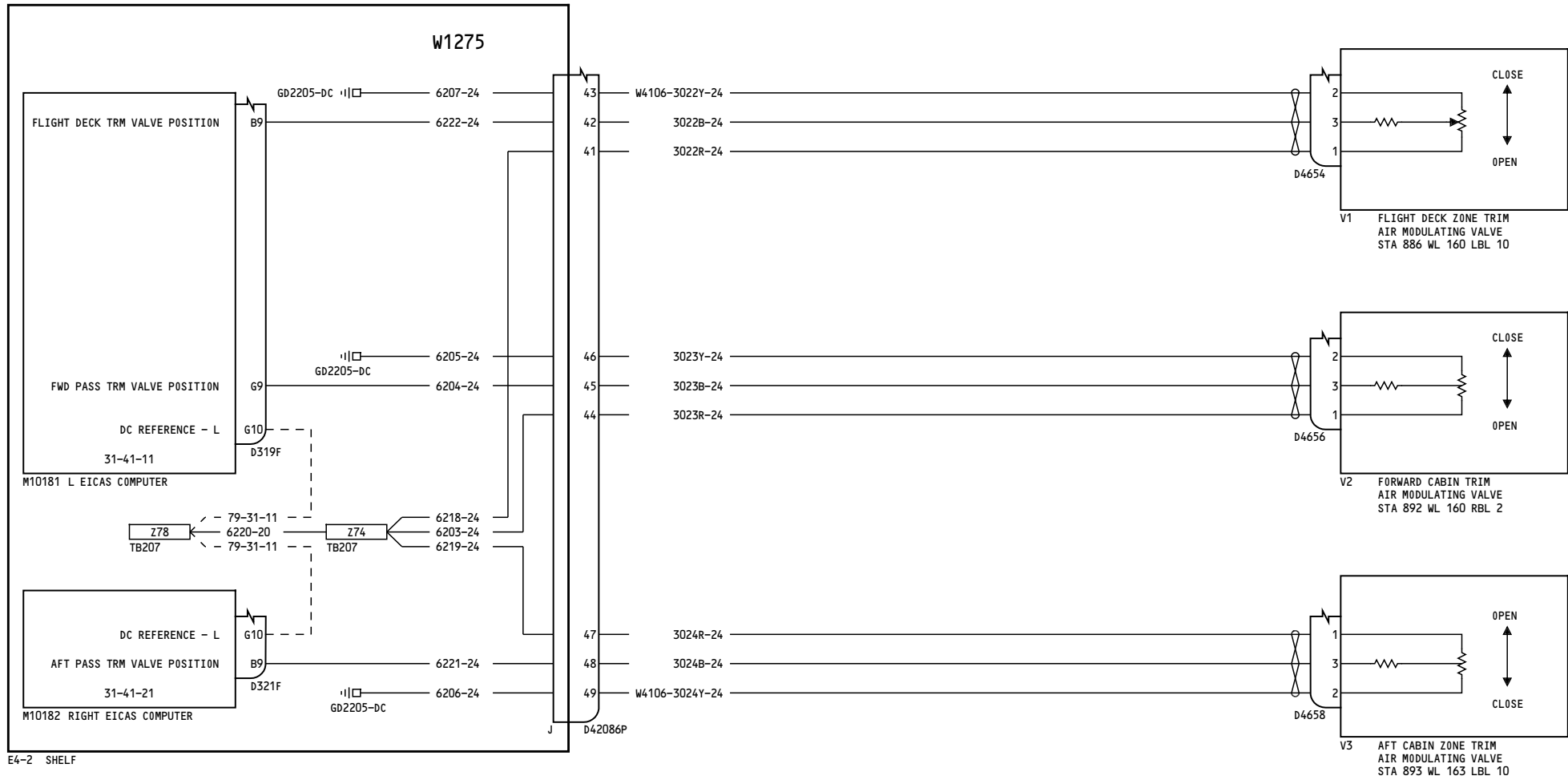
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ALL

**ZONE TRIM VALVE POSITION  
INDICATOR**

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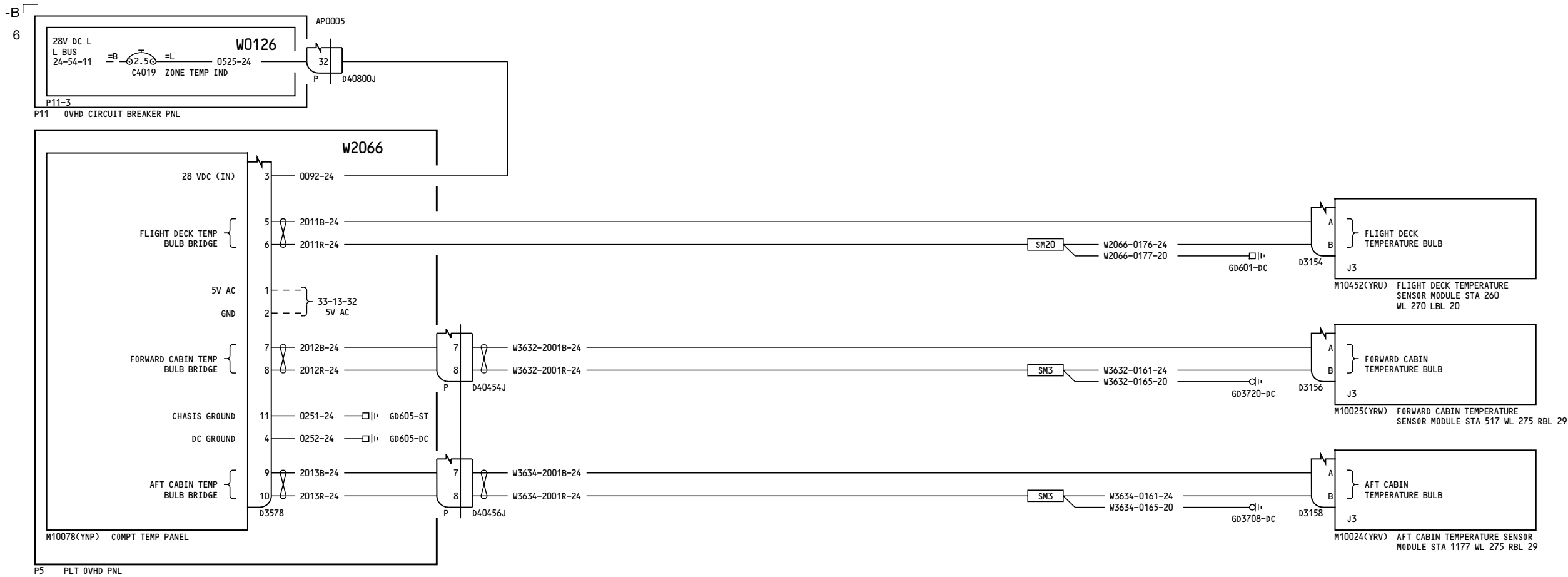
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ALL

CABIN ZONE TEMPERATURE INDICATION

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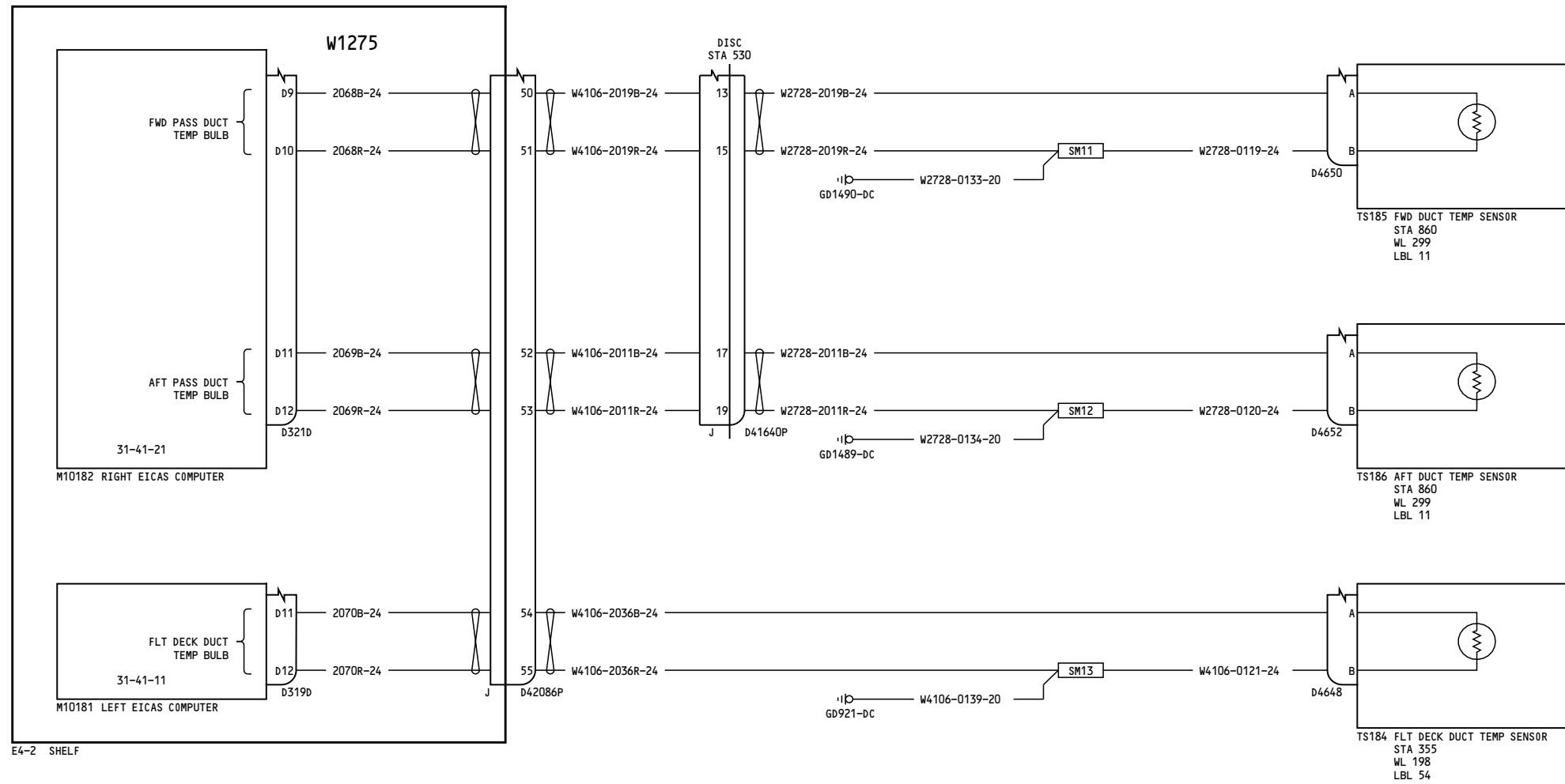
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**ZONE DUCT TEMPERATURE AND INDICATION**

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