

CHAPTER

21

AIR CONDITIONING

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AIR CONDITIONING

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		104		Jan 21/2005			104		Jan 21/2005
		105		Jan 21/2005	21-43-02				
21-28-01							101		Jan 21/2005
		101		Feb 06/2009	21-44-01				
		102.1		Mar 07/2008			101		Jan 21/2005
		103.1		Mar 07/2008			102.1		Jan 21/2005
21-30-00							103		Jan 21/2005
		101		Jan 21/2005	21-44-02				
21-31-01							101		Jan 21/2005
		101	1	Jan 21/2005			102		Jan 21/2005
			2	Jan 21/2005			103		Jan 21/2005
			3	Jan 21/2005	21-44-03				
			4	Jan 21/2005			101.1		Jan 21/2005
21-33-01							102.1		Jan 21/2005
		101		Jan 21/2005	21-45-00				
		102		Jan 21/2005			101.1		Jan 21/2005
21-40-00							102.1		Jan 21/2005
		101		Jan 21/2005			103.1		Jan 21/2005
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21-45-02							102	1	Jan 21/2005
		101.1		Jan 21/2005				2	Jan 21/2005
		102.1		Jan 21/2005	21-50-01				
		103.1		Jan 21/2005			101	1	Sep 04/2008
		104.1	1	Jan 21/2005				2	Jan 21/2005
			2	Jun 28/2006				3	Jan 21/2005
		105.1	1	Jan 21/2005				4	Mar 09/2006
			2	Jun 28/2006			101.1	1	Sep 04/2008
		106.1	1	Jan 21/2005				2	Sep 04/2008
			2	Jun 28/2006				3	Sep 04/2008
		107.1	1	Jan 21/2005				4	Sep 04/2008
			2	Jun 28/2006			102	1	Sep 04/2008
21-45-03								2	Mar 09/2006
		101		Jan 21/2005				3	Jan 21/2005
		102.1		Jan 21/2005				4	Mar 09/2006
		103		Jan 21/2005			103	1	Sep 04/2008
		103.1		Jun 06/2008				2	Jan 21/2005
21-45-05								3	Jan 21/2005
		101.1		Jan 21/2005				4	Mar 09/2006
		102		Jan 21/2005			104	1	Mar 09/2006
21-50-00								2	Jan 21/2005
		101	1	Jan 21/2005				3	Jan 21/2005

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		104.1	1	Sep 04/2008			103		Mar 09/2006
			2	Sep 04/2008			104		Mar 14/2007
			3	Sep 04/2008		4	101		Mar 09/2006
			4	Sep 04/2008			101.1		Sep 04/2008
		105	1	Mar 09/2006			102		Jan 21/2005
			2	Mar 09/2006	21-50-03				
			3	Mar 09/2006			101	1	Jan 21/2005
			4	Mar 09/2006				2	Jan 21/2005
		106	1	Mar 09/2006				3	Mar 09/2006
			2	Jan 21/2005				4	Mar 09/2006
			3	Jan 21/2005				5	Mar 09/2006
			4	Mar 09/2006				6	Mar 09/2006
21-50-02							101.1	1	Sep 04/2008
	1	101		Jan 21/2005				2	Sep 04/2008
		102		Jan 21/2005				3	Sep 04/2008
		103.1		Jan 21/2005				4	Sep 04/2008
		104		Mar 09/2006				5	Sep 04/2008
		105.1		Jan 21/2005				6	Sep 04/2008
	2	101		Jan 21/2005			102	1	Jan 21/2005
		102		Jan 21/2005				2	Jan 21/2005
		103		Mar 14/2007				3	Mar 09/2006
	3	101		Jan 21/2005				4	Mar 09/2006

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			5	Mar 09/2006				6	Mar 09/2006
			6	Mar 09/2006			105.1	1	Sep 04/2008
		103	1	Jan 21/2005				2	Sep 04/2008
			2	Jan 21/2005				3	Sep 04/2008
			3	Jan 21/2005				4	Sep 04/2008
			4	Mar 09/2006				5	Sep 04/2008
			5	Mar 09/2006				6	Sep 04/2008
			6	Mar 09/2006			106	1	Mar 09/2006
		103.1	1	Sep 04/2008				2	Jan 21/2005
			2	Sep 04/2008				3	Jan 21/2005
			3	Sep 04/2008				4	Mar 09/2006
			4	Sep 04/2008				5	Mar 09/2006
			5	Sep 04/2008				6	Mar 09/2006
			6	Sep 04/2008			107	1	Mar 09/2006
		104	1	Jan 21/2005				2	Jan 21/2005
			2	Jan 21/2005				3	Jan 21/2005
			3	Mar 09/2006				4	Mar 09/2006
			4	Mar 09/2006				5	Mar 09/2006
		105	1	Mar 09/2006				6	Mar 09/2006
			2	Jan 21/2005	21-50-04				
			3	Jan 21/2005			101	1	Mar 09/2006
			4	Mar 09/2006				2	Mar 09/2006
			5	Mar 09/2006				3	Mar 09/2006

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			4	Mar 09/2006				2	Mar 09/2006
			5	Mar 09/2006				3	Mar 09/2006
			6	Mar 09/2006				4	Jan 21/2005
		102	1	Mar 09/2006			102	1	Mar 09/2006
			2	Jan 21/2005				2	Mar 09/2006
			3	Mar 09/2006				3	Mar 09/2006
			4	Mar 09/2006				4	Jan 21/2005
			5	Mar 09/2006	21-50-06				
			6	Mar 09/2006			101	1	Mar 09/2006
		103	1	Mar 09/2006				2	Mar 09/2006
			2	Jan 21/2005				3	Mar 09/2006
			3	Jan 21/2005				4	Jan 21/2005
			4	Mar 09/2006			102	1	Mar 09/2006
			5	Mar 09/2006				2	Mar 09/2006
			6	Mar 09/2006				3	Mar 09/2006
		104	1	Mar 09/2006				4	Jan 21/2005
			2	Jan 21/2005	21-50-07				
			3	Mar 09/2006			101		Mar 09/2006
			4	Mar 09/2006	21-50-08				
			5	Mar 09/2006			101		Mar 09/2006
			6	Mar 09/2006	21-52-03				
21-50-05							101		Jan 21/2005
		101	1	Mar 09/2006					

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			2	Jan 21/2005				2	Jan 21/2005
21-58-01		101	1	Jan 21/2005	21-58-05		101		Jan 21/2005
			2	Jan 21/2005	21-58-06				
			3	Jan 21/2005		1	101		Jan 21/2005
		102	1	Jan 21/2005			102		Jan 21/2005
			2	Jan 21/2005		2	101		Jan 21/2005
21-58-02							102		Jan 21/2005
		101	1	Jan 21/2005		3	101		Jan 21/2005
			2	Mar 14/2007			102A		Jan 21/2005
			3	Jan 21/2005			103		Jan 21/2005
		102	1	Jan 21/2005			104		Jan 21/2005
			2	Mar 14/2007	21-60-00				
			3	Jan 21/2005			101	1	Jan 21/2005
		103	1	Jan 21/2005				2	Jan 21/2005
			2	Mar 14/2007			102	1	Mar 09/2006
			3	Jan 21/2005				2	Jan 21/2005
21-58-03							103	1	Jan 21/2005
		101		Jan 21/2005				2	Mar 09/2006
21-58-04					21-60-01				
		101	1	Jan 21/2005			101	1	Mar 09/2006
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		102	1	Jan 21/2005				2	Jan 21/2005
			2	Jan 21/2005	21-60-05				
			3	Mar 09/2006			101	1	Sep 04/2008
21-60-02								2	Jan 21/2005
		101	1	Jan 21/2005			102	1	Sep 04/2008
			2	Jan 21/2005				2	Mar 09/2006
		102	1	Mar 09/2006			103	1	Sep 04/2008
			2	Jan 21/2005				2	Jan 21/2005
		103	1	Jan 21/2005	21-60-06				
			2	Jan 21/2005			101	1	Jan 21/2005
21-60-03								2	Jan 21/2005
		101	1	Jan 21/2005			102.1	1	Jan 21/2005
			2	Jan 21/2005				2	Jan 21/2005
		102	1	Mar 09/2006			103	1	Jan 21/2005
			2	Jan 21/2005				2	Jan 21/2005
		103	1	Jan 21/2005			104	1	Mar 09/2006
			2	Jan 21/2005				2	Mar 09/2006
21-60-04					21-60-07				
		101	1	Jan 21/2005			101	1	Sep 04/2008
			2	Jan 21/2005				2	Jan 21/2005
		102	1	Mar 09/2006			102.1	1	Jan 21/2005
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		104	1	Sep 04/2008		102A	1	1	Jan 21/2005
			2	Mar 09/2006				2	Jan 21/2005
21-60-08		101	1	Jan 21/2005	21-74-01		101A		Jan 21/2005
			2	Mar 09/2006					
21-65-01		101		Jan 21/2005					
		102		Jan 21/2005					
		103		Jan 21/2005					
21-66-01		101	1	Jan 21/2005					
			2	Jan 21/2005					
			3	Jan 21/2005					
21-66-02		101	1	Jan 21/2005					
			2	Jan 21/2005					
21-66-03		101	1	Jan 21/2005					
			2	Jan 21/2005					
		102A	1	Jan 21/2005					
			2	Jan 21/2005					

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			104		Jan 21/2005	155-199
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			103.1		Mar 07/2008	151-154 275-276
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<u>CABIN PRESSURE CONTROL SYSTEM</u>						
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				3	Jan 21/2005	ALL
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CABIN PRESSURIZATION- INDICATING AND WARNING	21-33-01		101		Jan 21/2005	050-099
			102		Jan 21/2005	150-199 275-299
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HEATING- BULK CARGO	21-44-02		101		Jan 21/2005	050-099 150-199
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			103.1		Jan 21/2005	155-167 276-277
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			103.1		Jan 21/2005	157 167
			104.1	1	Jan 21/2005	275
				2	Jun 28/2006	275
			105.1	1	Jan 21/2005	276
				2	Jun 28/2006	276
			106.1	1	Jan 21/2005	277
				2	Jun 28/2006	277
			107.1	1	Jan 21/2005	278-280
				2	Jun 28/2006	278-280
HEATING- OVERWING ESCAPE HATCHES	21-45-03		101		Jan 21/2005	050-099
			102.1		Jan 21/2005	150-154 275
			103		Jan 21/2005	155-199 276-299
			103.1		Jun 06/2008	280
SUPPLEMENTAL HEATING- DOOR AREA AFT	21-45-05		101.1		Jan 21/2005	050-166 275-277
			102		Jan 21/2005	167-199 278-299
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			102	1	Jan 21/2005	280-299
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				4	Mar 09/2006	050-099 150-154
			101.1	1	Sep 04/2008	050 150-154
				2	Sep 04/2008	050 150-154
				3	Sep 04/2008	050 150-154
				4	Sep 04/2008	050 150-154
			102	1	Sep 04/2008	155-157 163-199
				2	Mar 09/2006	155-157 163-199
				3	Jan 21/2005	155-157 163-199
				4	Mar 09/2006	155-157 163-199
			103	1	Sep 04/2008	162
				2	Jan 21/2005	162
				3	Jan 21/2005	162
				4	Mar 09/2006	162
			104	1	Mar 09/2006	275-276
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				3	Jan 21/2005	275-276
				4	Mar 09/2006	275-276
			104.1	1	Sep 04/2008	275-276
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				4	Sep 04/2008	275-276

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				4	Mar 09/2006	277-278
			106	1	Mar 09/2006	280-299
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			105.1		Jan 21/2005	162-164
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					Mar 14/2007	280-299
		3	101		Jan 21/2005	050-099 150-199
					Jan 21/2005	275-276
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		4	101		Mar 09/2006	050-099 150-199 275-278
					Sep 04/2008	050 150-154 275-276
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				3	Mar 09/2006	050
				4	Mar 09/2006	050
				5	Mar 09/2006	050
				6	Mar 09/2006	050
			101.1	1	Sep 04/2008	050
				2	Sep 04/2008	050
				3	Sep 04/2008	050
				4	Sep 04/2008	050
				5	Sep 04/2008	050
				6	Sep 04/2008	050
			102	1	Jan 21/2005	051-099
				2	Jan 21/2005	051-099
				3	Mar 09/2006	051-099
				4	Mar 09/2006	051-099
				5	Mar 09/2006	051-099
				6	Mar 09/2006	051-099
			103	1	Jan 21/2005	150-154
				2	Jan 21/2005	150-154
				3	Jan 21/2005	150-154
				4	Mar 09/2006	150-154
				5	Mar 09/2006	150-154

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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
PACK AUTO CONTROL- LEFT (cont.)	21-50-03		103.1	6	Mar 09/2006	150-154
				1	Sep 04/2008	150-154
				2	Sep 04/2008	150-154
				3	Sep 04/2008	150-154
				4	Sep 04/2008	150-154
				5	Sep 04/2008	150-154
			104	6	Sep 04/2008	150-154
				1	Jan 21/2005	155-199
				2	Jan 21/2005	155-199
				3	Mar 09/2006	155-199
				4	Mar 09/2006	155-199
			105	1	Mar 09/2006	275-276
				2	Jan 21/2005	275-276
				3	Jan 21/2005	275-276
				4	Mar 09/2006	275-276
				5	Mar 09/2006	275-276
				6	Mar 09/2006	275-276
			105.1	1	Sep 04/2008	275-276
				2	Sep 04/2008	275-276
				3	Sep 04/2008	275-276
				4	Sep 04/2008	275-276
				5	Sep 04/2008	275-276
				6	Sep 04/2008	275-276

**CHAPTER 21
AIR CONDITIONING**

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
PACK AUTO CONTROL- LEFT (cont.)	21-50-03		106	1	Mar 09/2006	277-278
				2	Jan 21/2005	277-278
				3	Jan 21/2005	277-278
				4	Mar 09/2006	277-278
				5	Mar 09/2006	277-278
				6	Mar 09/2006	277-278
			107	1	Mar 09/2006	280-299
				2	Jan 21/2005	280-299
				3	Jan 21/2005	280-299
				4	Mar 09/2006	280-299
				5	Mar 09/2006	280-299
				6	Mar 09/2006	280-299
PACK AUTO CONTROL- RIGHT	21-50-04		101	1	Mar 09/2006	050 150-154 275-276
				2	Mar 09/2006	050 150-154 275-276
				3	Mar 09/2006	050 150-154 275-276
				4	Mar 09/2006	050 150-154 275-276
				5	Mar 09/2006	050 150-154 275-276
				6	Mar 09/2006	050 150-154 275-276
			102	1	Mar 09/2006	051-099 155-199
				2	Jan 21/2005	051-099 155-199
				3	Mar 09/2006	051-099 155-199
				4	Mar 09/2006	051-099 155-199
				5	Mar 09/2006	051-099 155-199

**CHAPTER 21
AIR CONDITIONING**

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
PACK AUTO CONTROL- RIGHT (cont.)	21-50-04		103	6	Mar 09/2006	051-099 155-199
				1	Mar 09/2006	277-278
				2	Jan 21/2005	277-278
				3	Jan 21/2005	277-278
				4	Mar 09/2006	277-278
				5	Mar 09/2006	277-278
			104	6	Mar 09/2006	277-278
				1	Mar 09/2006	280-299
				2	Jan 21/2005	280-299
				3	Mar 09/2006	280-299
				4	Mar 09/2006	280-299
				5	Mar 09/2006	280-299
				6	Mar 09/2006	280-299
PACK STANDBY CONTROL- LEFT	21-50-05		101	1	Mar 09/2006	050-099 150-199 275-278
				2	Mar 09/2006	050-099 150-199 275-278
				3	Mar 09/2006	050-099 150-199 275-278
				4	Jan 21/2005	050-099 150-199 275-278
			102	1	Mar 09/2006	280-299
				2	Mar 09/2006	280-299
				3	Mar 09/2006	280-299
				4	Jan 21/2005	280-299
PACK STANDBY CONTROL- RIGHT	21-50-06		101	1	Mar 09/2006	050-099 150-199 275-278
				2	Mar 09/2006	050-099 150-199 275-278

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AIR CONDITIONING

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
PACK STANDBY CONTROL- RIGHT (cont.)	21-50-06	102		3	Mar 09/2006	050-099 150-199 275-278
				4	Jan 21/2005	050-099 150-199 275-278
				1	Mar 09/2006	280-299
				2	Mar 09/2006	280-299
				3	Mar 09/2006	280-299
				4	Jan 21/2005	280-299
PACK TEMPERATURE INDICATION- LEFT	21-50-07	101			Mar 09/2006	ALL
PACK TEMPERATURE INDICATION- RIGHT	21-50-08	101			Mar 09/2006	ALL
<u>COOLING PACK INDICATION SYSTEM</u>						
PACK FLOW INDICATION	21-52-03	101			Jan 21/2005	ALL
<u>EQUIPMENT COOLING SYSTEM</u>						
EQUIPMENT COOLING- SIMPLIFIED	21-58-00	101		1	Jan 21/2005	ALL
				2	Jan 21/2005	ALL
EQUIPMENT COOLING- CONTROL AND INDICATION	21-58-01	101		1	Jan 21/2005	050-099
				2	Jan 21/2005	050-099
				3	Jan 21/2005	050-099
		102		1	Jan 21/2005	150-199 275-299
				2	Jan 21/2005	150-199 275-299
EQUIPMENT COOLING- OVERRIDE	21-58-02	101		1	Jan 21/2005	050-099 150-154 275-278
				2	Mar 14/2007	050-099 150-154 275-278
				3	Jan 21/2005	050-099 150-154 275-278
		102		1	Jan 21/2005	155-199
				2	Mar 14/2007	155-199

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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity	
EQUIPMENT COOLING- OVERRIDE (cont.)	21-58-02		103	3	Jan 21/2005	155-199	
				1	Jan 21/2005	280-299	
				2	Mar 14/2007	280-299	
				3	Jan 21/2005	280-299	
EQUIPMENT COOLING- GROUND VALVES	21-58-03		101		Jan 21/2005	ALL	
EQUIPMENT COOLING- SUPPLY FANS	21-58-04		101	1	Jan 21/2005	050-099 155-199 276-299	
				2	Jan 21/2005	050-099 155-199 276-299	
				102	1	Jan 21/2005	150-154 275
				2	Jan 21/2005	150-154 275	
EQUIPMENT COOLING- EXHAUST FAN	21-58-05		101		Jan 21/2005	ALL	
EQUIPMENT COOLING- INBOARD VALVES	21-58-06	1	101		Jan 21/2005	050-099 155-199 276-299	
			102		Jan 21/2005	150-154 275	
		2	101		Jan 21/2005	050-099	
			102		Jan 21/2005	150-199 275-299	
		3	101		Jan 21/2005	050-099	
			102A		Jan 21/2005	150 152-157	
			103		Jan 21/2005	151 162-199 275-276	
			104		Jan 21/2005	277-299	
<u>TEMPERATURE CONTROL</u>							
TEMPERATURE CONTROL- SIMPLIFIED	21-60-00		101	1	Jan 21/2005	050-099 150-199	
				2	Jan 21/2005	050-099 150-199	
				102	1	Mar 09/2006	275-278
				2	Jan 21/2005	275-278	

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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
TEMPERATURE CONTROL- SIMPLIFIED (cont.)	21-60-00		103	1	Jan 21/2005	280-299
				2	Mar 09/2006	280-299
TEMPERATURE CONTROL ZONE	21-60-01		101	1	Mar 09/2006	050-099
				2	Jan 21/2005	050-099
				3	Mar 09/2006	050-099
			102	1	Jan 21/2005	150-199 275-299
				2	Jan 21/2005	150-199 275-299
				3	Mar 09/2006	150-199 275-299
TEMPERATURE CONTROL AND VALVE POSITION INDICATION FLIGHT DECK ZONE	21-60-02		101	1	Jan 21/2005	050-099 150-199
				2	Jan 21/2005	050-099 150-199
			102	1	Mar 09/2006	275-278
				2	Jan 21/2005	275-278
			103	1	Jan 21/2005	280-299
				2	Jan 21/2005	280-299
TEMPERATURE CONTROL AND VALVE POSITION INDICATION FORWARD ZONE	21-60-03		101	1	Jan 21/2005	050-099 150-199
				2	Jan 21/2005	050-099 150-199
			102	1	Mar 09/2006	275-278
				2	Jan 21/2005	275-278
			103	1	Jan 21/2005	280-299
				2	Jan 21/2005	280-299
TEMPERATURE CONTROL AND VALVE POSITION INDICATION AFT ZONE	21-60-04		101	1	Jan 21/2005	050-099 150-199

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TEMPERATURE CONTROL AND VALVE POSITION INDICATION AFT ZONE (cont.)	21-60-04			2	Jan 21/2005	050-099 150-199	
				102	1	Mar 09/2006	275-278
					2	Mar 09/2006	275-278
				103	1	Jan 21/2005	280-299
					2	Jan 21/2005	280-299
TEMPERATURE CONTROL AND VALVE POSITION INDICATION MID ZONE	21-60-05		101	1	Sep 04/2008	050-099 150-199	
					2	Jan 21/2005	050-099 150-199
				102	1	Sep 04/2008	275-278
					2	Mar 09/2006	275-278
				103	1	Sep 04/2008	280-299
TEMPERATURE CONTROL AND VALVE POSITION INDICATION AUX FORWARD ZONE	21-60-06		101	1	Jan 21/2005	050-099 280-299	
					2	Jan 21/2005	050-099 280-299
				102.1	1	Jan 21/2005	150-152
					2	Jan 21/2005	150-152
				103	1	Jan 21/2005	153-199
					2	Jan 21/2005	153-199
				104	1	Mar 09/2006	275-278
					2	Mar 09/2006	275-278
TEMPERATURE CONTROL AND VALVE POSITION INDICATION AUX MID ZONE	21-60-07		101	1	Sep 04/2008	050-099 280-299	

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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
TEMPERATURE CONTROL AND VALVE POSITION INDICATION AUX MID ZONE (cont.)	21-60-07			2	Jan 21/2005	050-099 280-299
			102.1	1	Jan 21/2005	150-152
				2	Jan 21/2005	150-152
			103	1	Jan 21/2005	153-199
				2	Jan 21/2005	153-199
			104	1	Sep 04/2008	275-278
				2	Mar 09/2006	275-278
TEMPERATURE CONTROL- LOWER FORWARD CARGO	21-60-08		101	1	Jan 21/2005	ALL
				2	Mar 09/2006	ALL
<u>TEMPERATURE INDICATION SYSTEM</u>						
TEMPERATURE INDICATION ZONE	21-65-01		101		Jan 21/2005	050-099 150-199
			102		Jan 21/2005	275-278
			103		Jan 21/2005	280-299
<u>CREW REST AREA TEMPERATURE CONTROL SYSTEM</u>						
TEMPERATURE CONTROL CREW REST FLIGHT DECK	21-66-01		101	1	Jan 21/2005	050-099 162-199
				2	Jan 21/2005	050-099 162-199
				3	Jan 21/2005	050-099 162-199
TEMPERATURE CONTROL FLIGHT DECK CREW REST	21-66-02		101	1	Jan 21/2005	050-099 162-199
				2	Jan 21/2005	050-099 162-199
TEMPERATURE CONTROL CREW REST AFT LEFT CABIN	21-66-03		101	1	Jan 21/2005	050-099 162-199
				2	Jan 21/2005	050-099 162-199

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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
TEMPERATURE CONTROL CREW REST AFT LEFT CABIN (cont.)	21-66-03		102A	1	Jan 21/2005	150 152-157
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TEMPERATURE CONTROL ATTENDANT CREW REST	21-66-04		101	1	Jan 21/2005	050-099 162-199
				2	Jan 21/2005	050-099 162-199
			102A	1	Jan 21/2005	150 152-157
				2	Jan 21/2005	150 152-157
<u>ZONAL DRYING SYSTEM</u>						
ZONAL DRYERS	21-74-01		101A		Jan 21/2005	275-280

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CH-SC-SU	Title
21-00-00	AIR CONDITIONING- SIMPLIFIED
21-20-00	AIR DISTRIBUTION- SIMPLIFIED
21-31-01	CABIN PRESSURIZATION
21-33-01	CABIN PRESSURIZATION- INDICATING AND WARNING
21-30-00	CABIN PRESSURIZATION- SIMPLIFIED
21-50-00	COOLING PACKS- SIMPLIFIED
21-58-01	EQUIPMENT COOLING- CONTROL AND INDICATION
21-58-05	EQUIPMENT COOLING- EXHAUST FAN
21-58-03	EQUIPMENT COOLING- GROUND VALVES
21-58-06	EQUIPMENT COOLING- INBOARD VALVES
21-58-02	EQUIPMENT COOLING- OVERRIDE
21-58-00	EQUIPMENT COOLING- SIMPLIFIED
21-58-04	EQUIPMENT COOLING- SUPPLY FANS
21-26-04	FORWARD CARGO GROUND EXHAUST FAN
21-43-01	FORWARD CARGO HEATING
21-24-01	GASPER AIR
21-44-01	HEATING- AFT CARGO
21-44-02	HEATING- BULK CARGO
21-44-03	HEATING- FLAPPER VALVE

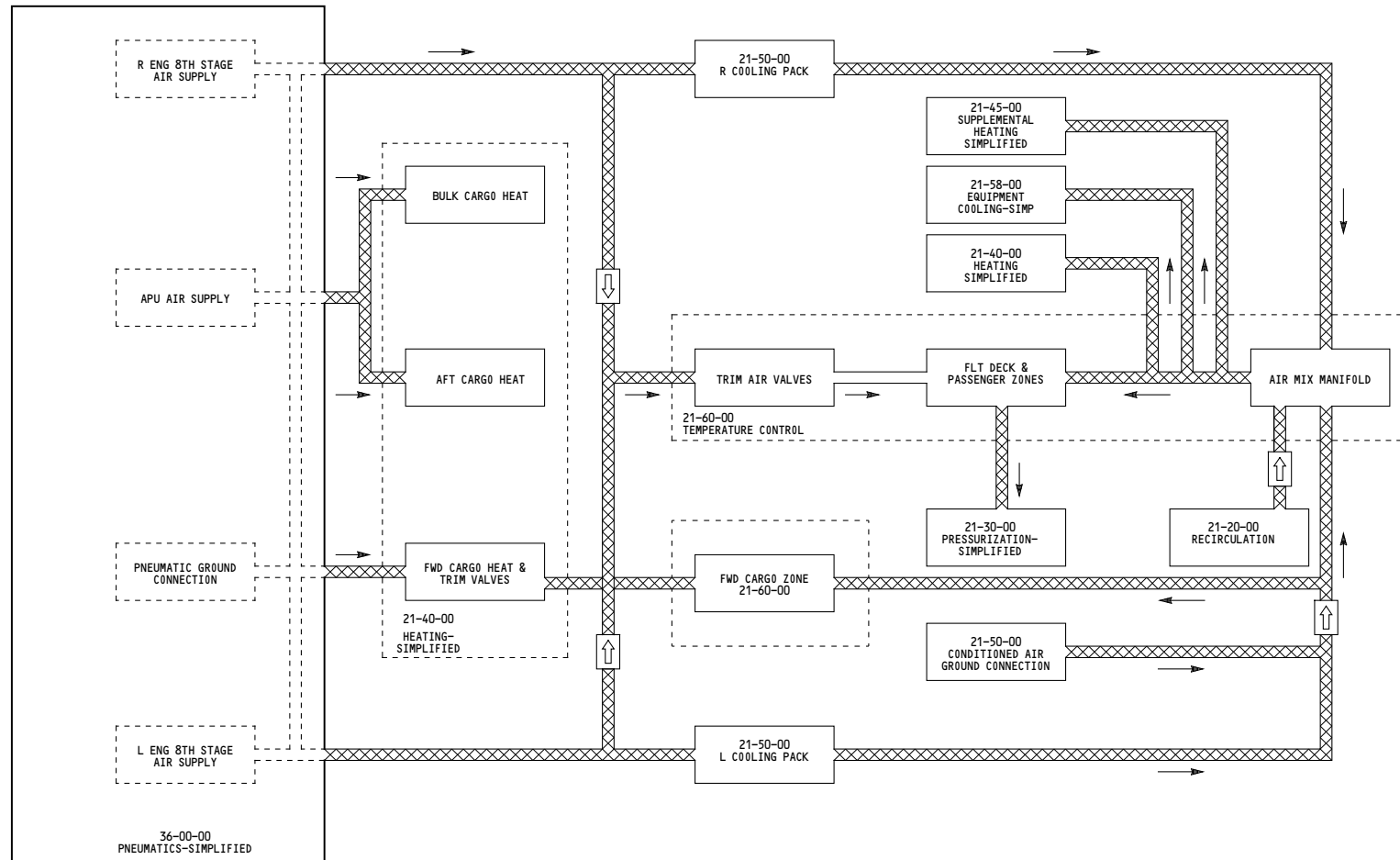
CH-SC-SU	Title
21-45-02	HEATING- FORWARD DOOR AREA
21-45-03	HEATING- OVERWING ESCAPE HATCHES
21-40-00	HEATING- SIMPLIFIED
21-45-01	HEATING- SUPPLEMENTAL
21-28-01	LOWER FORWARD CARGO AIR CONDITIONING
21-43-02	LOWER FORWARD CARGO TEMPERATURE INDICATION
21-50-03	PACK AUTO CONTROL- LEFT
21-50-04	PACK AUTO CONTROL- RIGHT
21-50-01	PACK FLOW CONTROL- LEFT
21-50-02	PACK FLOW CONTROL- RIGHT
21-52-03	PACK FLOW INDICATION
21-50-05	PACK STANDBY CONTROL- LEFT
21-50-06	PACK STANDBY CONTROL- RIGHT
21-50-07	PACK TEMPERATURE INDICATION- LEFT
21-50-08	PACK TEMPERATURE INDICATION- RIGHT
21-25-01	RECIRCULATION FAN- LEFT
21-25-02	RECIRCULATION FAN- RIGHT
21-45-05	SUPPLEMENTAL HEATING- DOOR AREA AFT
21-45-00	SUPPLEMENTAL HEATING- SIMPLIFIED

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AIR CONDITIONING**

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21-60-04	TEMPERATURE CONTROL AND VALVE POSITION INDICATION AFT ZONE	21-26-02	VENTILATION-AFT LAVATORY EQUIPMENT GALLEY NO 1 FAN
21-60-06	TEMPERATURE CONTROL AND VALVE POSITION INDICATION AUX FORWARD ZONE	21-26-03	VENTILATION-AFT LAVATORY EQUIPMENT GALLEY NO 2 FAN
21-60-07	TEMPERATURE CONTROL AND VALVE POSITION INDICATION AUX MID ZONE	21-74-01	ZONAL DRYERS
21-60-02	TEMPERATURE CONTROL AND VALVE POSITION INDICATION FLIGHT DECK ZONE		
21-60-03	TEMPERATURE CONTROL AND VALVE POSITION INDICATION FORWARD ZONE		
21-60-05	TEMPERATURE CONTROL AND VALVE POSITION INDICATION MID ZONE		
21-66-04	TEMPERATURE CONTROL ATTENDANT CREW REST		
21-66-03	TEMPERATURE CONTROL CREW REST AFT LEFT CABIN		
21-66-01	TEMPERATURE CONTROL CREW REST FLIGHT DECK		
21-66-02	TEMPERATURE CONTROL FLIGHT DECK CREW REST		
21-60-01	TEMPERATURE CONTROL ZONE		
21-60-08	TEMPERATURE CONTROL- LOWER FORWARD CARGO		
21-60-00	TEMPERATURE CONTROL- SIMPLIFIED		
21-65-01	TEMPERATURE INDICATION ZONE		
21-26-01	VENTILATION- BULK CARGO		

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XXXXX AIR CONDITIONING

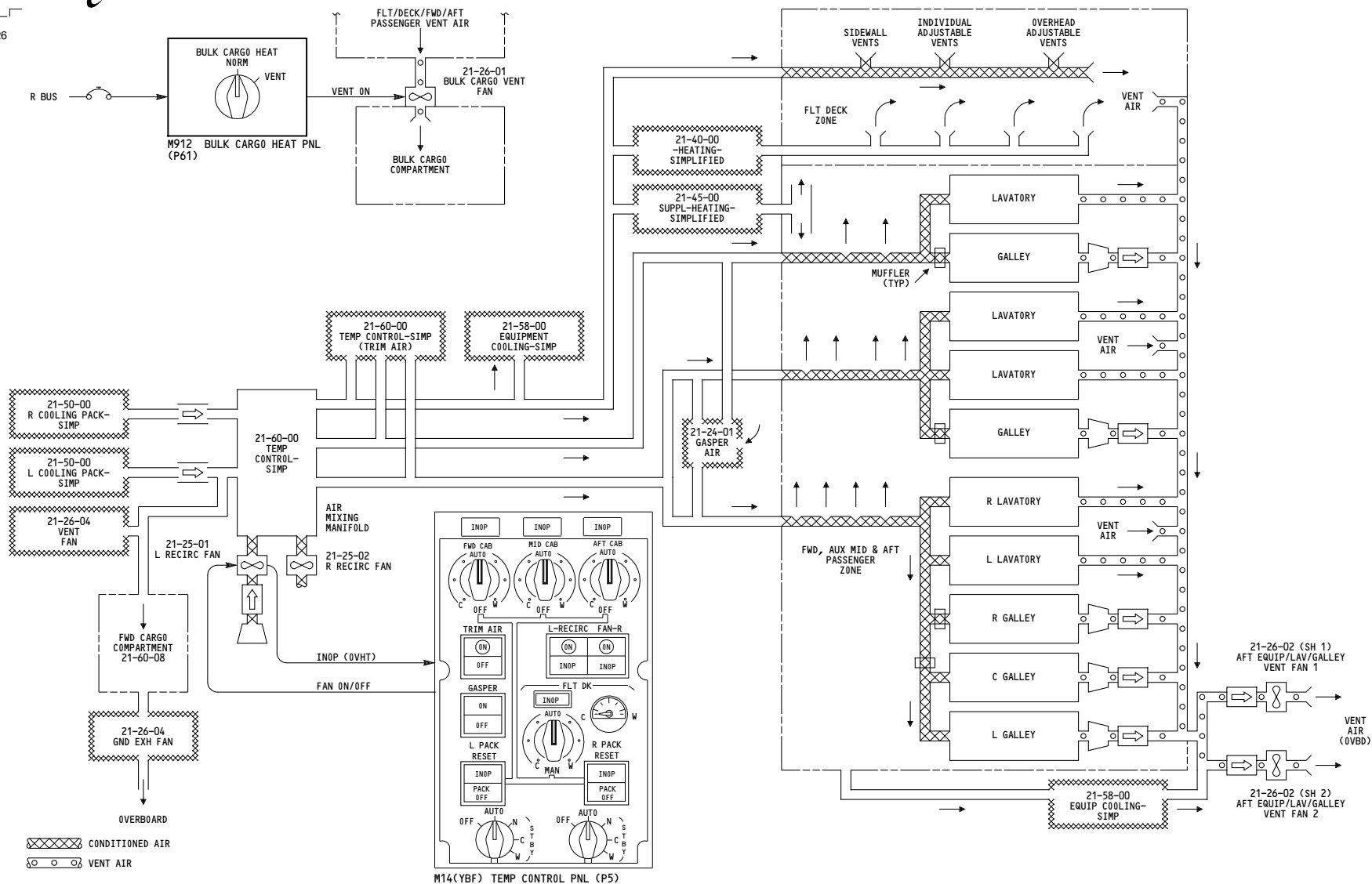
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AIR DISTRIBUTION-SIMPLIFIED

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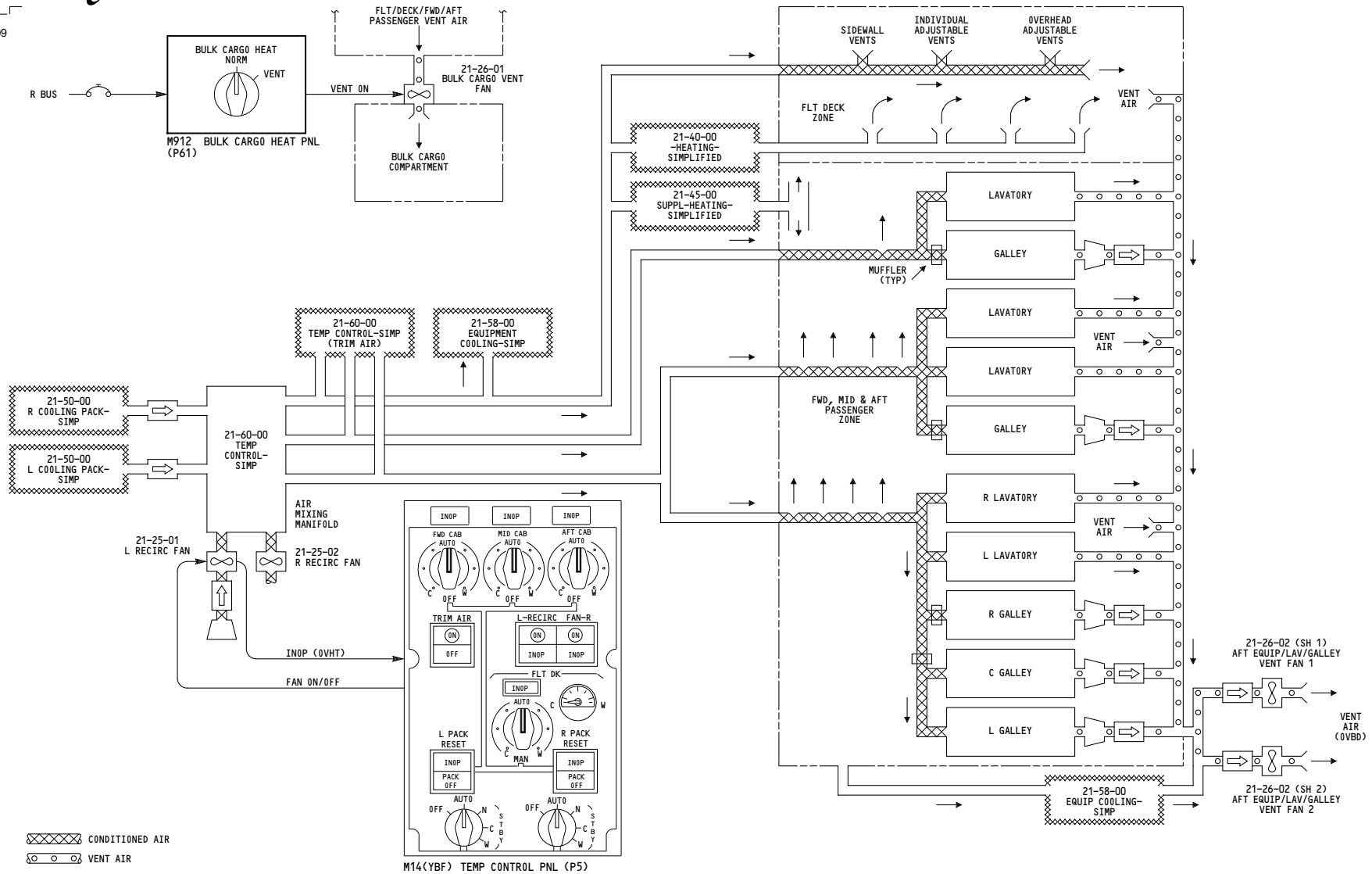
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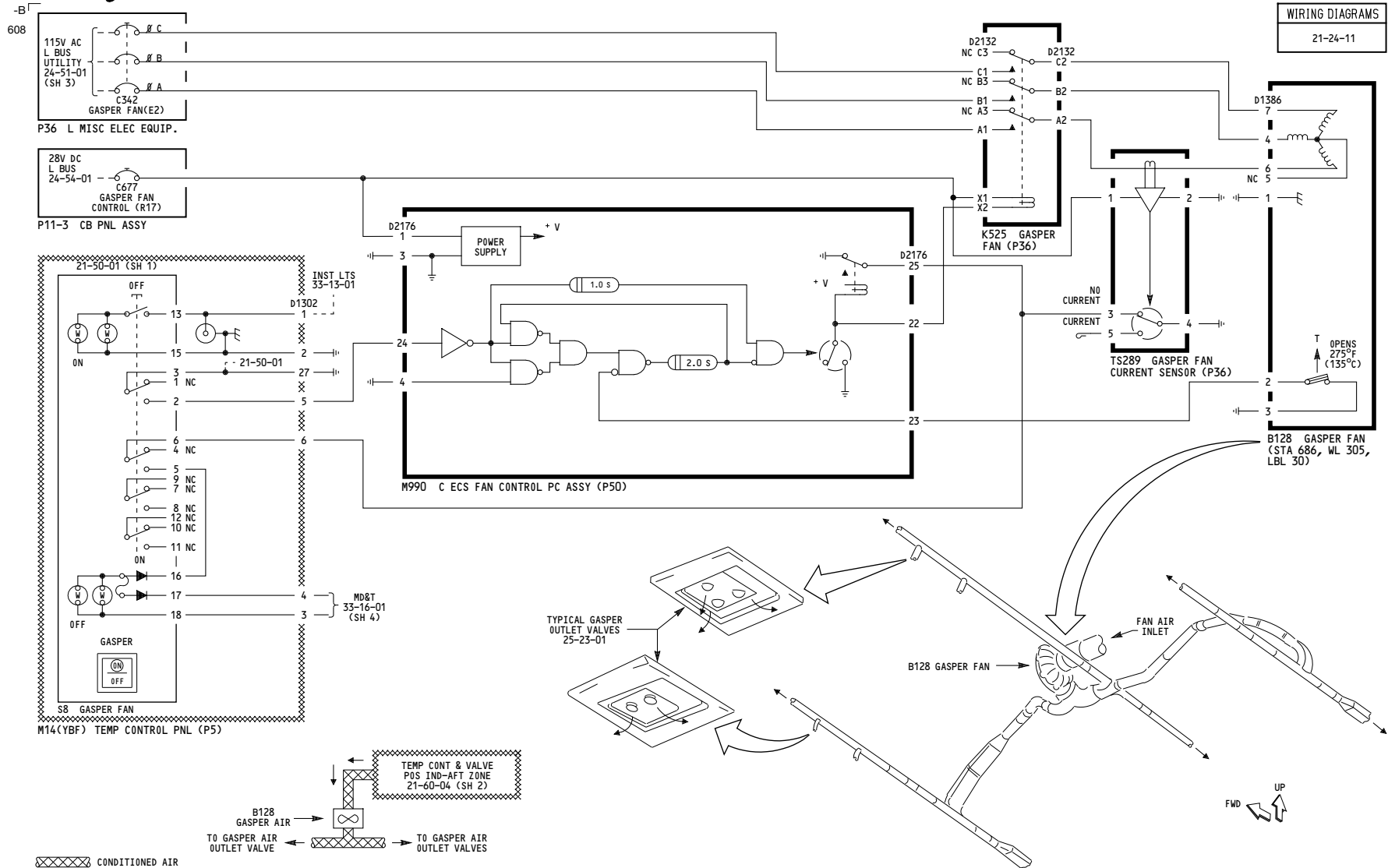
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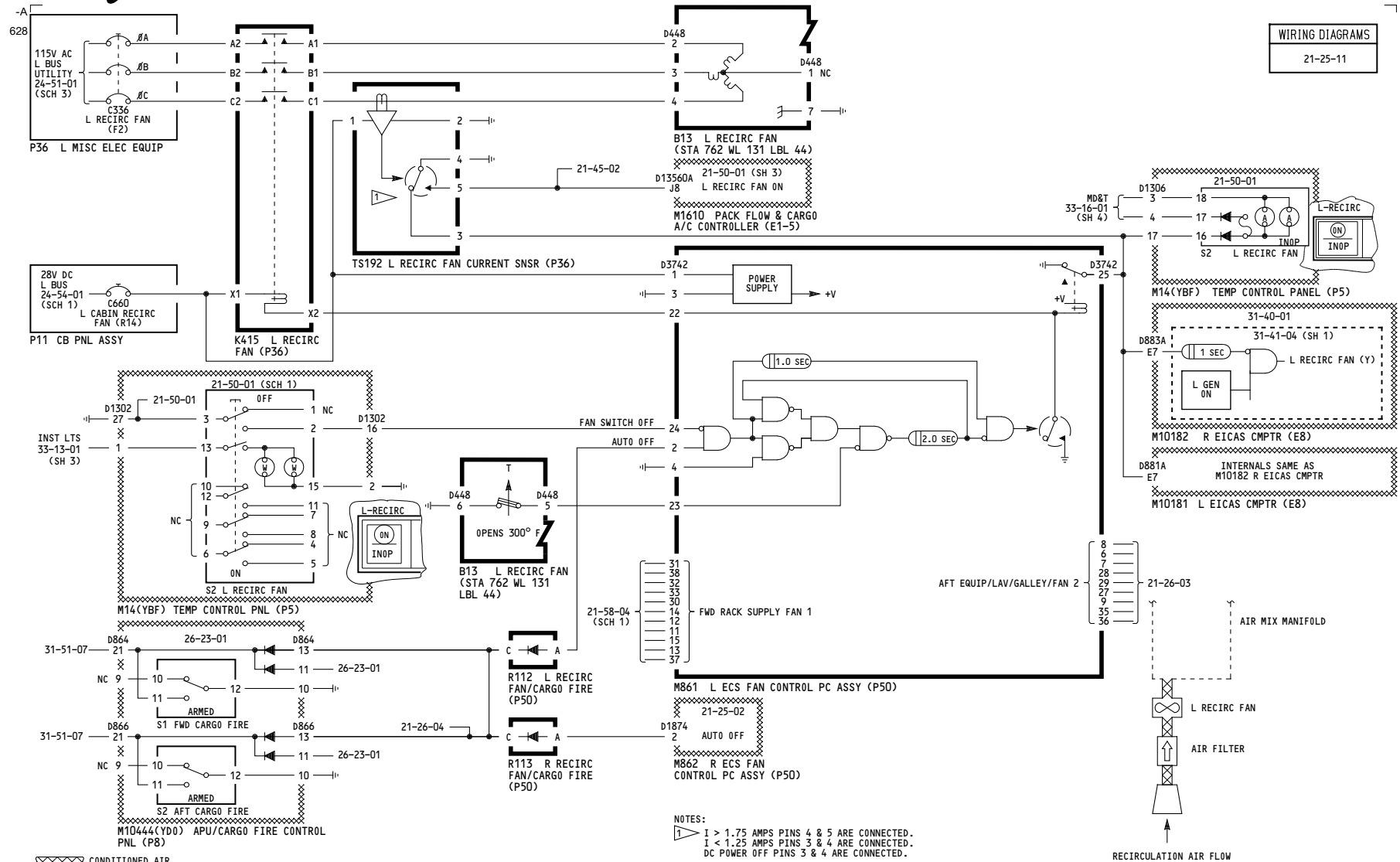
GASPER AIR

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ALL

RECIRCULATION FAN-
LEFT

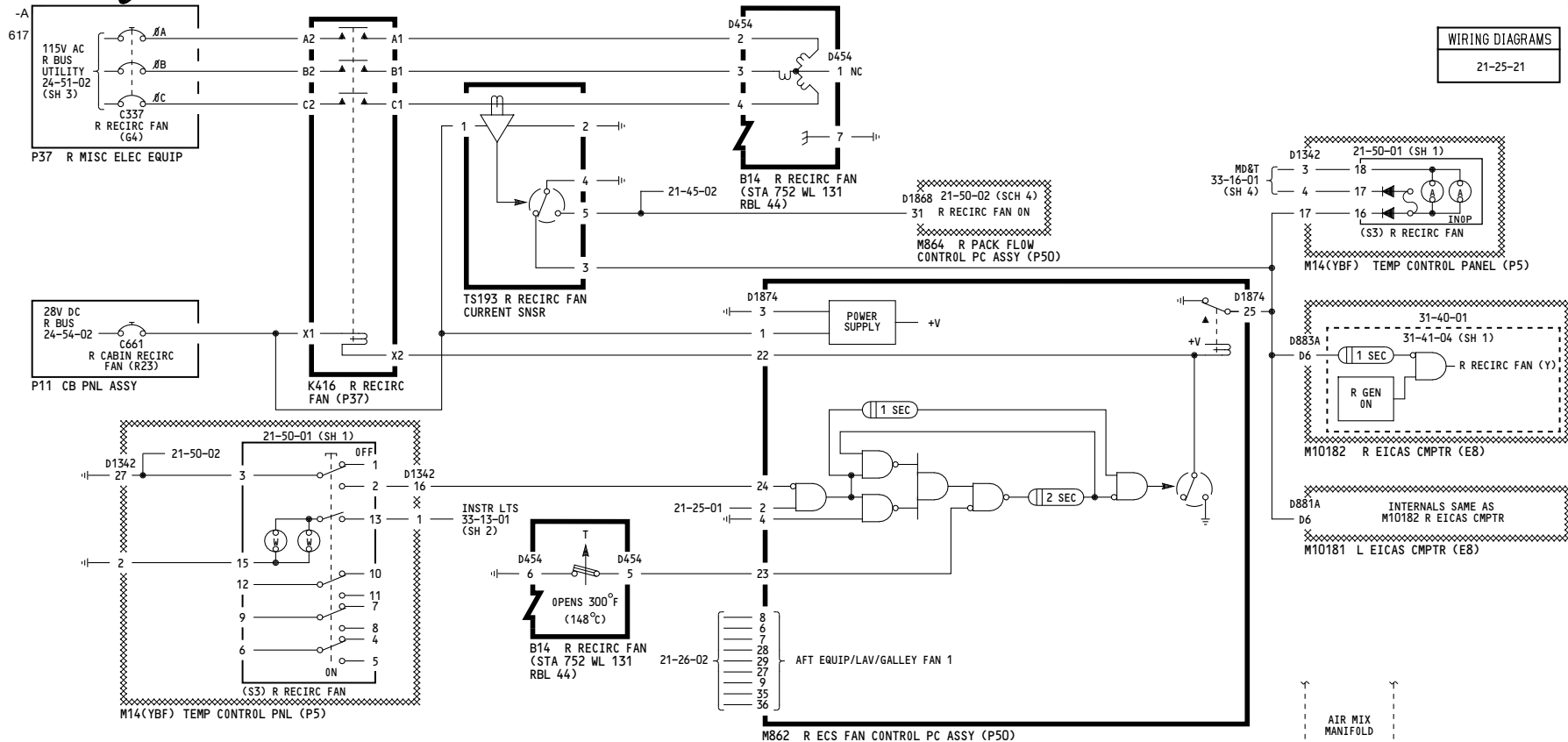
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WIRING DIAGRAMS 21-25-21

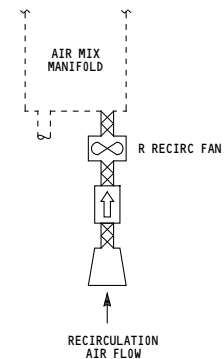


CONDITIONED AIR

ALL

**RECIRCULATION FAN-
RIGHT**

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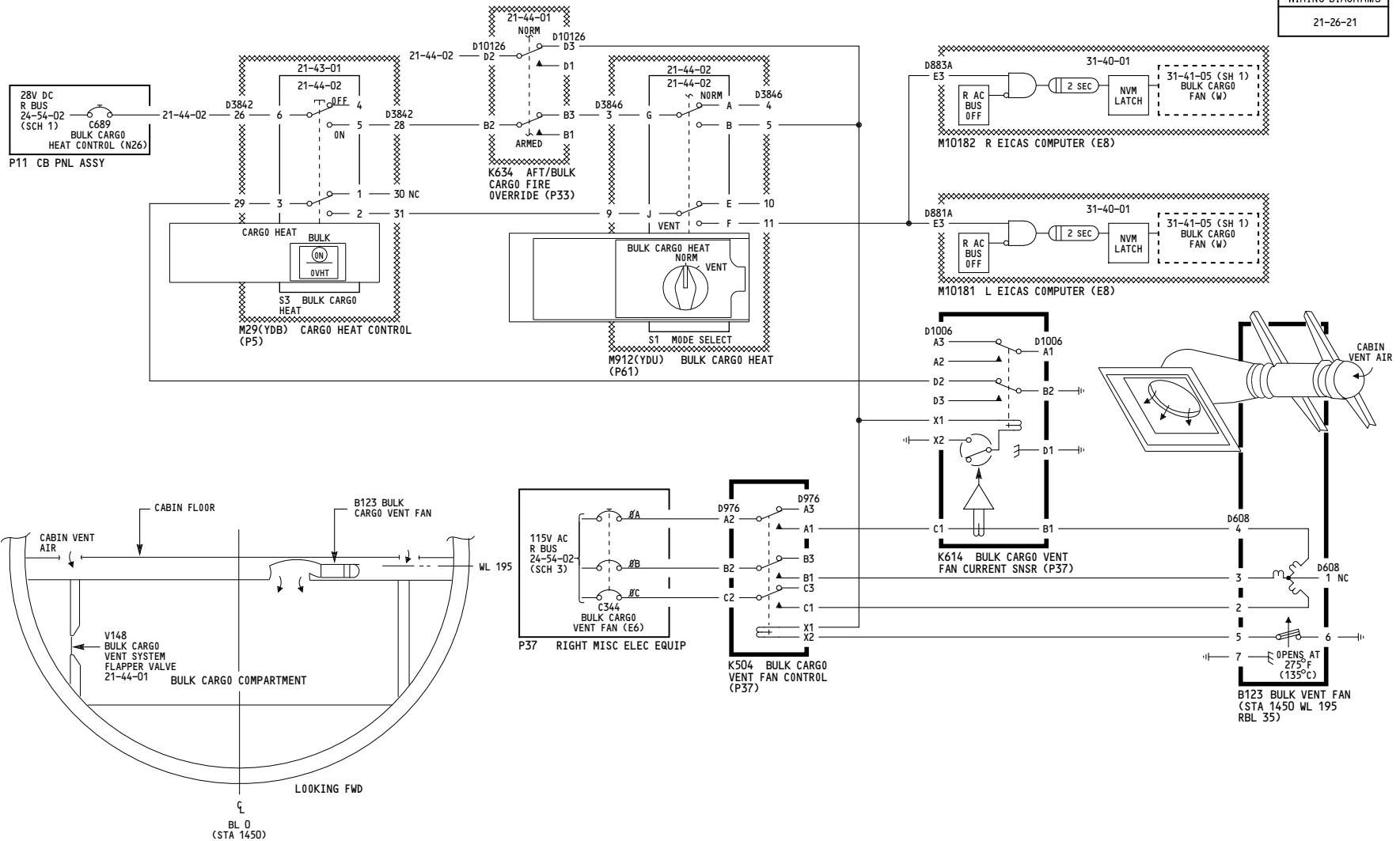
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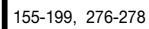
**VENTILATION-
BULK CARGO**

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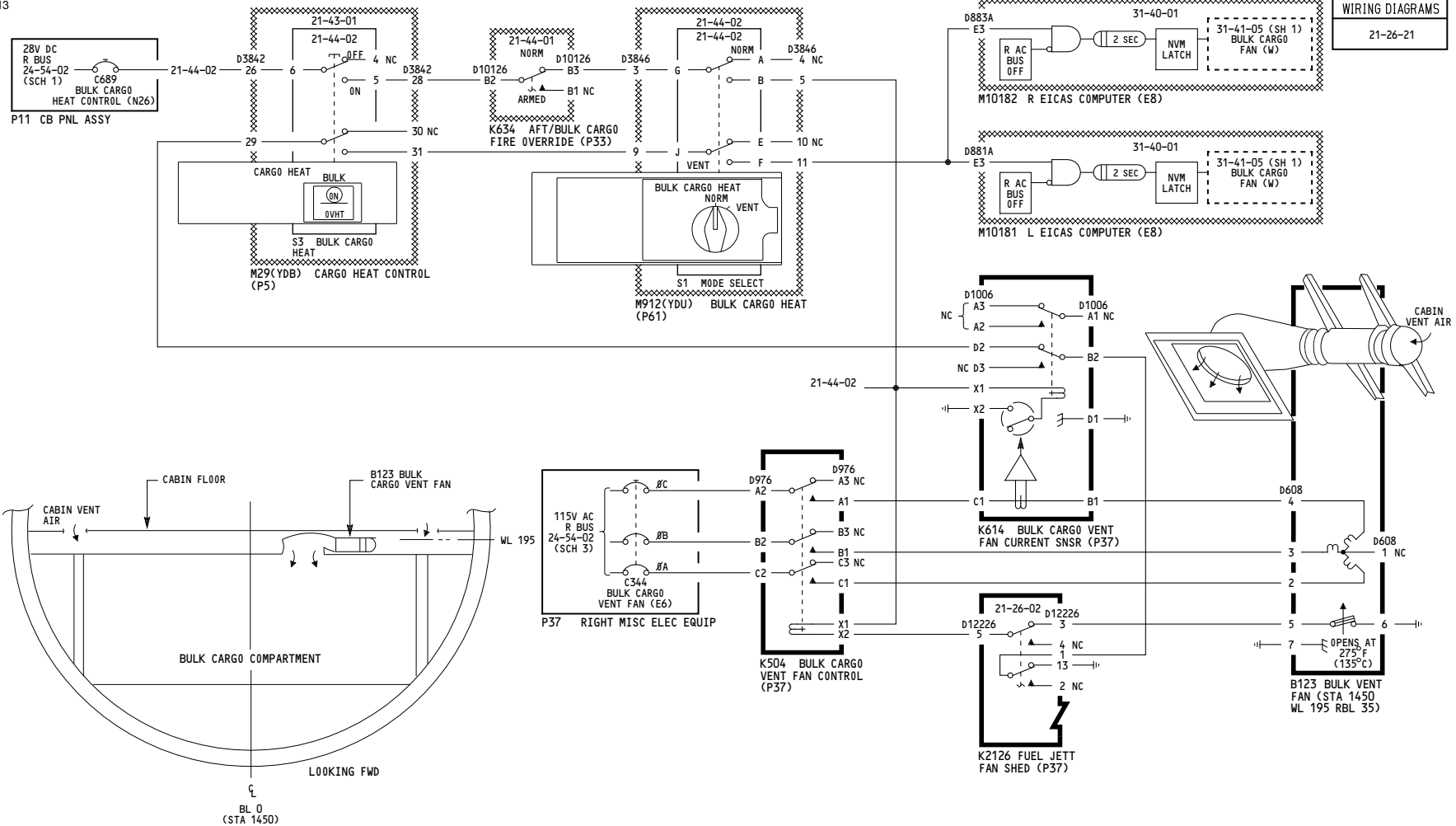
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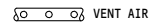
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BULK CARGO**

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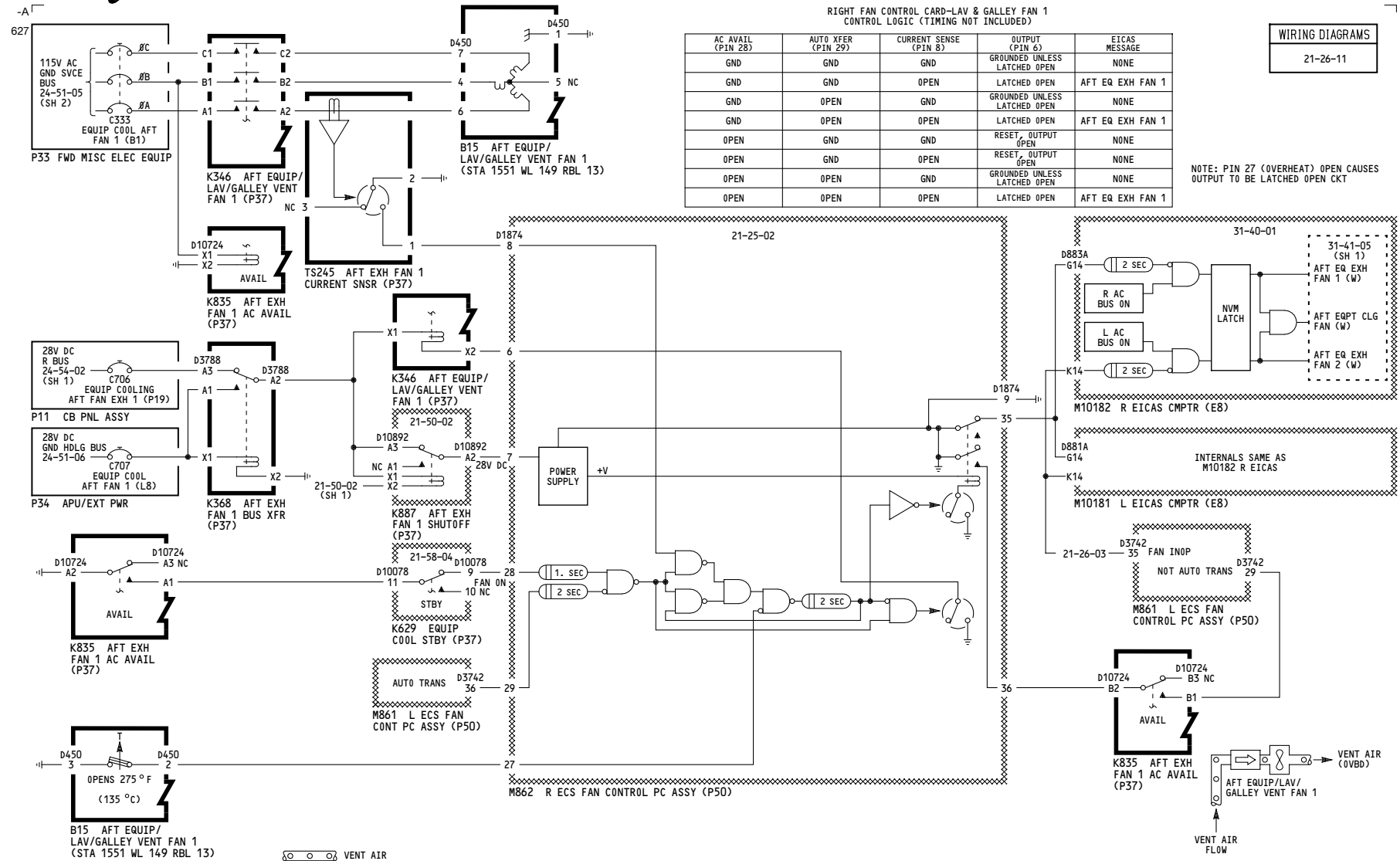
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767-200/300 SYSTEM SCHEMATIC MANUAL



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**VENTILATION-AFT LAVATORY
EQUIPMENT GALLEY
NO 1 FAN**

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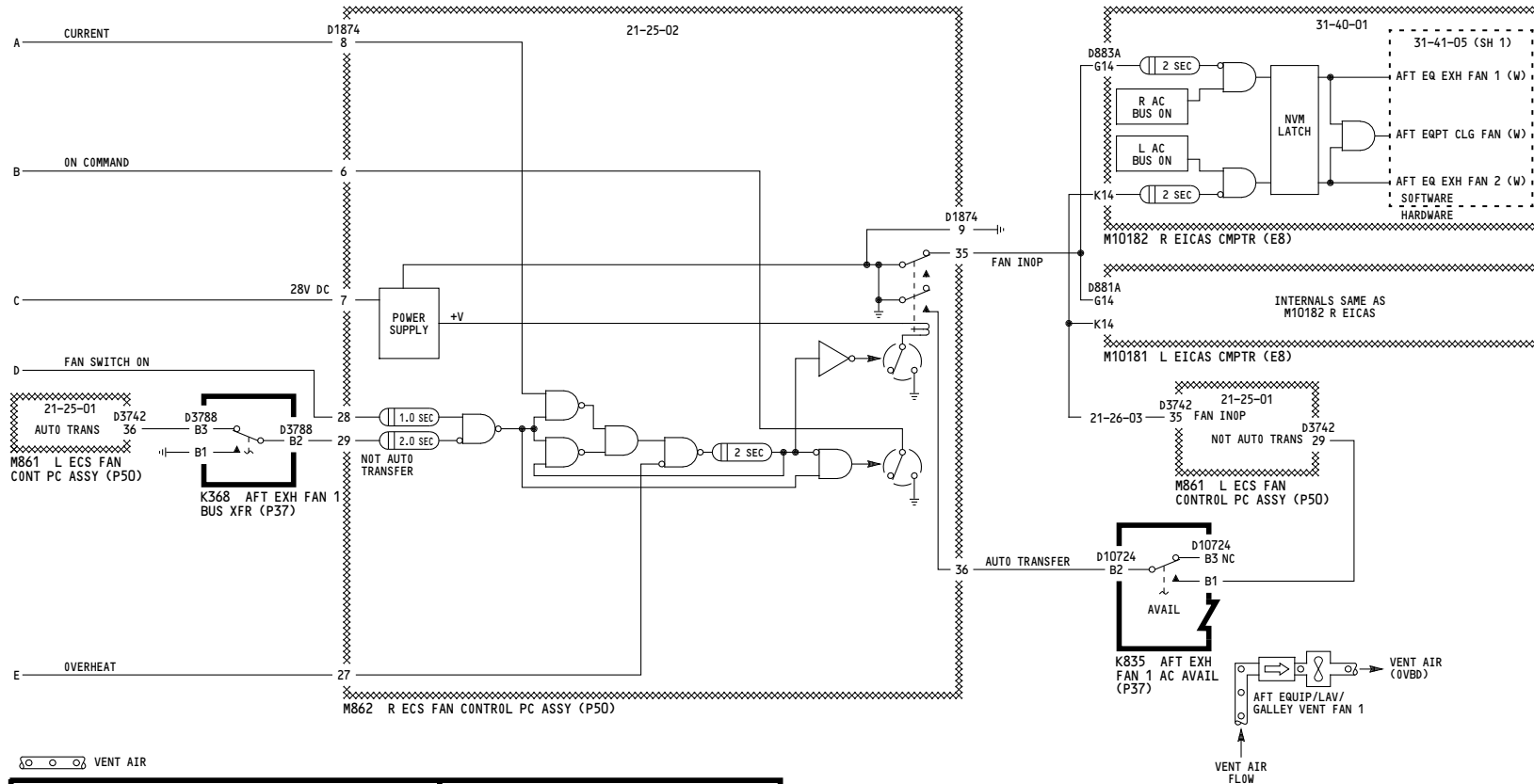
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RIGHT FAN CONTROL CARD-LAV & GALLEY FAN 1
CONTROL LOGIC (TIMING NOT INCLUDED)

WIRING DIAGRAMS
21-26-11

AC AVAIL (PIN 28)	AUTO XFER (PIN 29)	CURRENT SENSE (PIN 8)	OUTPUT (PIN 6)	EICAS MESSAGE
GND	GND	GND	GROUNDLED UNLESS LATCHED OPEN	NONE
GND	GND	OPEN	LATCHED OPEN	AFT EQ EXH FAN 1
GND	OPEN	GND	GROUNDLED UNLESS LATCHED OPEN	NONE
GND	OPEN	OPEN	LATCHED OPEN	AFT EQ EXH FAN 1
OPEN	GND	GND	RESET, OUTPUT OPEN	NONE
OPEN	GND	OPEN	RESET, OUTPUT OPEN	NONE
OPEN	OPEN	GND	GROUNDLED UNLESS LATCHED OPEN	NONE
OPEN	OPEN	OPEN	LATCHED OPEN	AFT EQ EXH FAN 1

NOTE: PIN 27 (OVERHEAT) OPEN CAUSES
OUTPUT TO BE LATCHED OPEN CKT.



VENT AIR

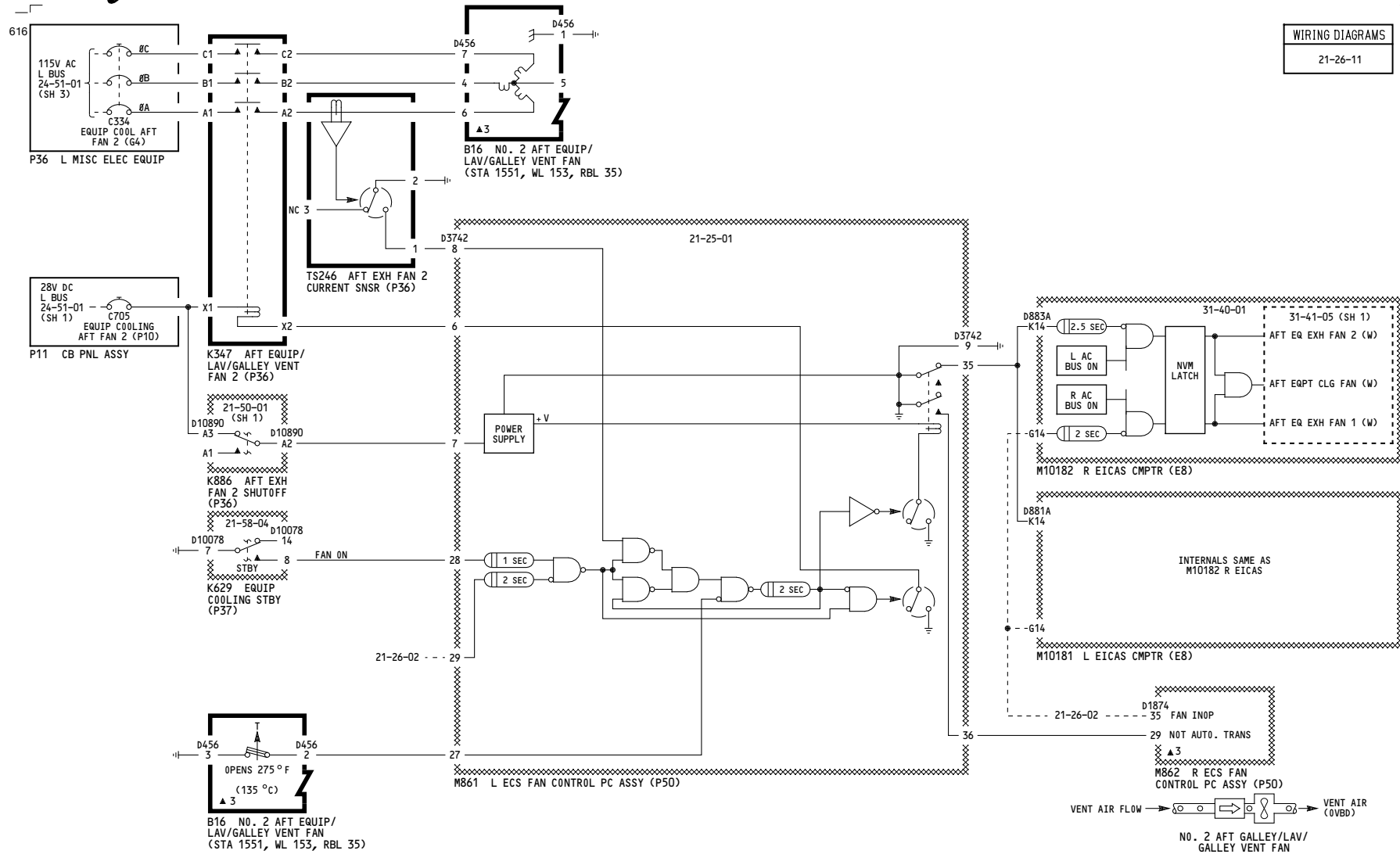
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**VENTILATION-AFT LAVATORY
EQUIPMENT GALLEY
NO 1 FAN**

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VENTILATION-AFT LAVATORY EQUIPMENT GALLEY NO 2 FAN

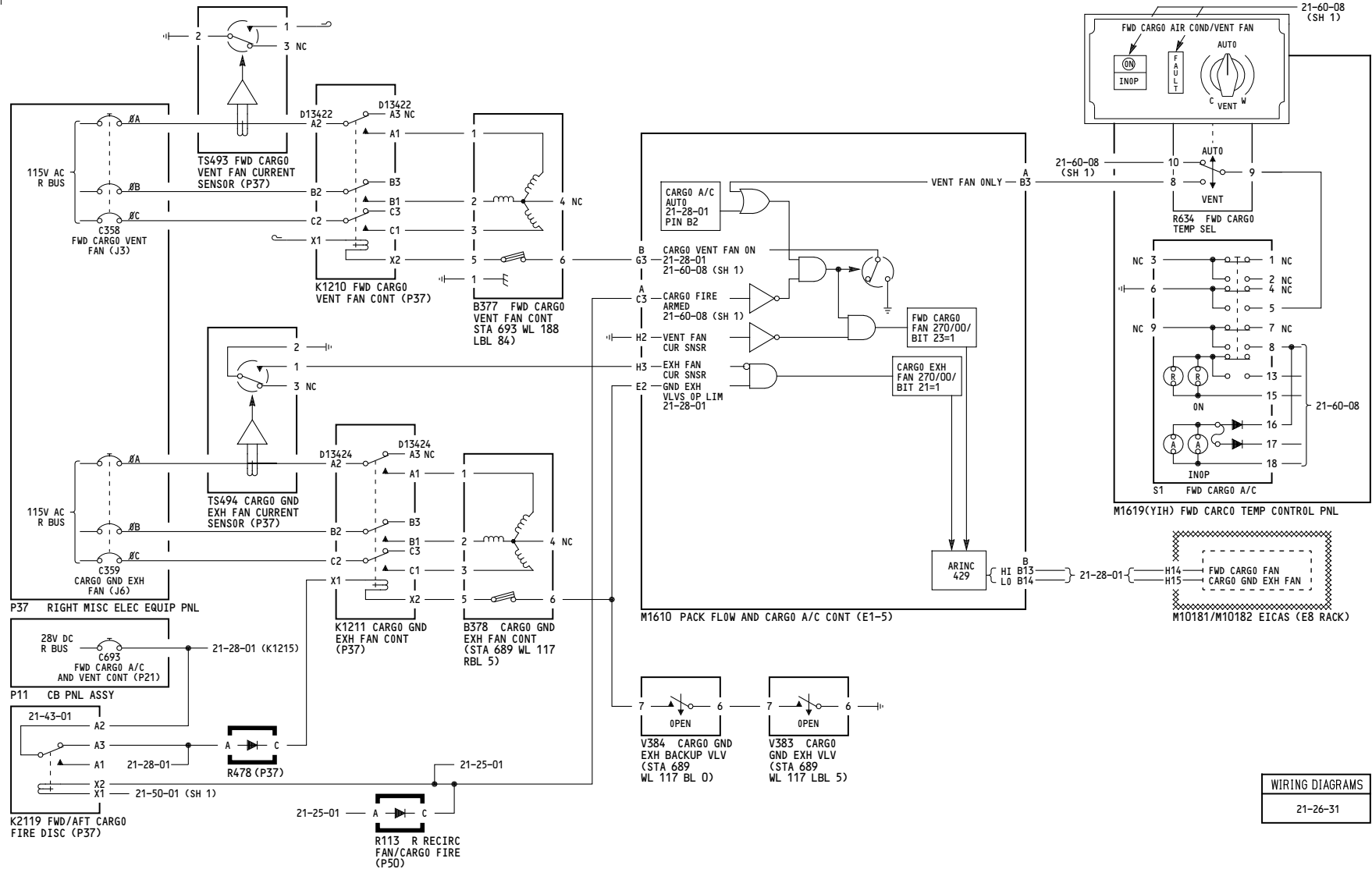
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WIRING DIAGRAMS
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FORWARD CARGO GROUND EXHAUST FAN

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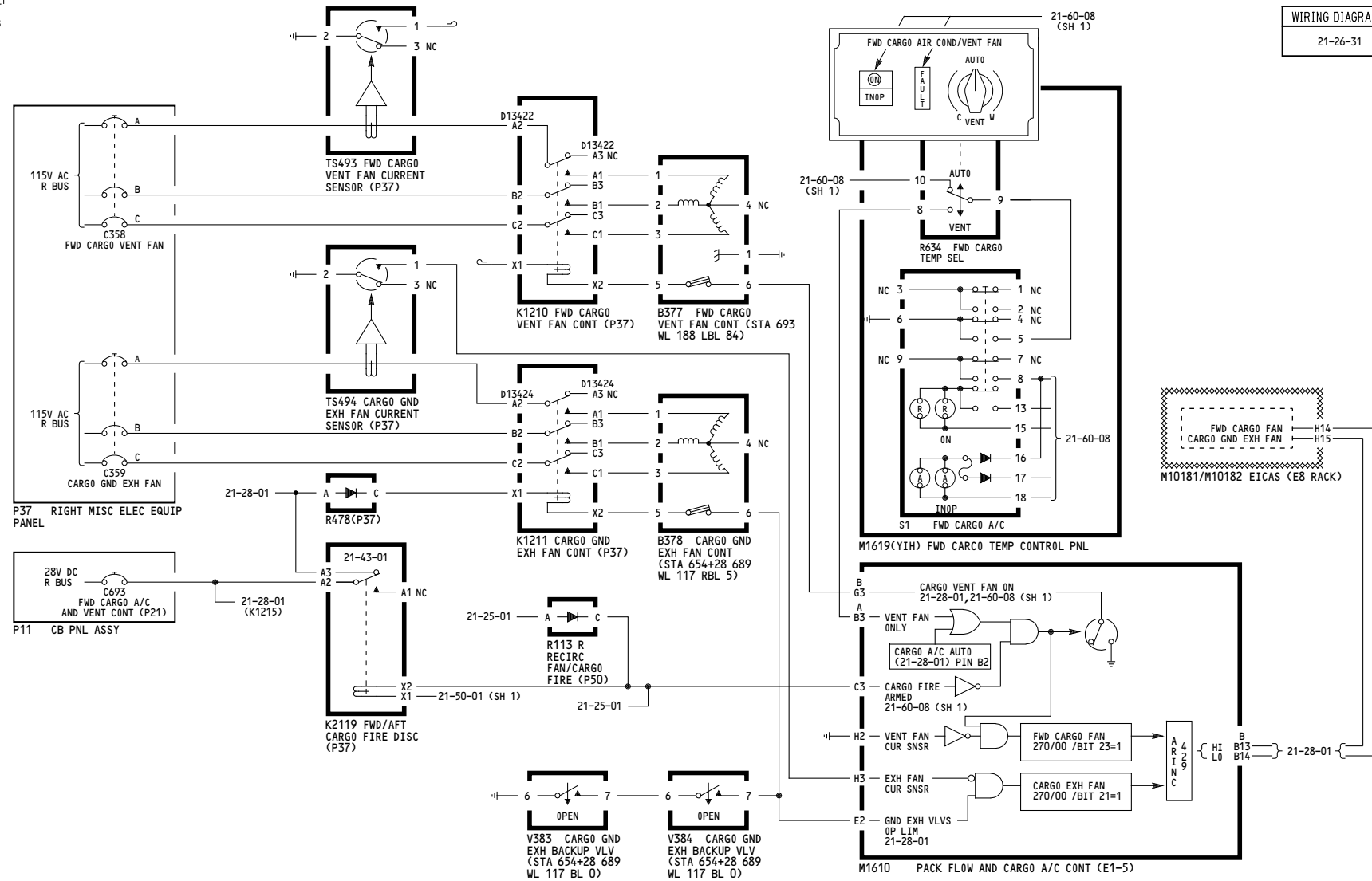
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WIRING DIAGRAMS
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**FORWARD CARGO
GROUND EXHAUST FAN**

Incorporates
21-0086

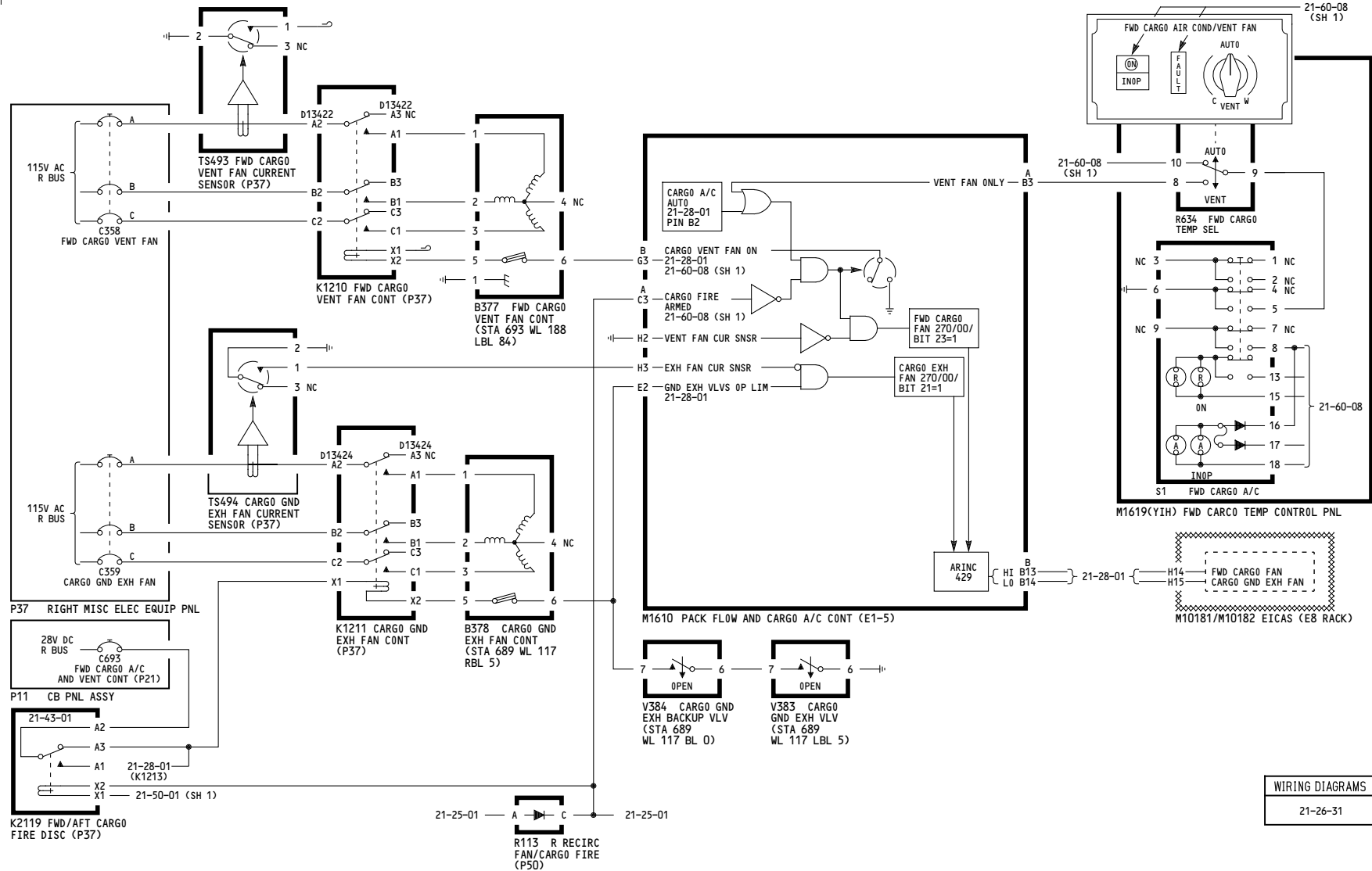
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FORWARD CARGO GROUND EXHAUST FAN

Incorporates
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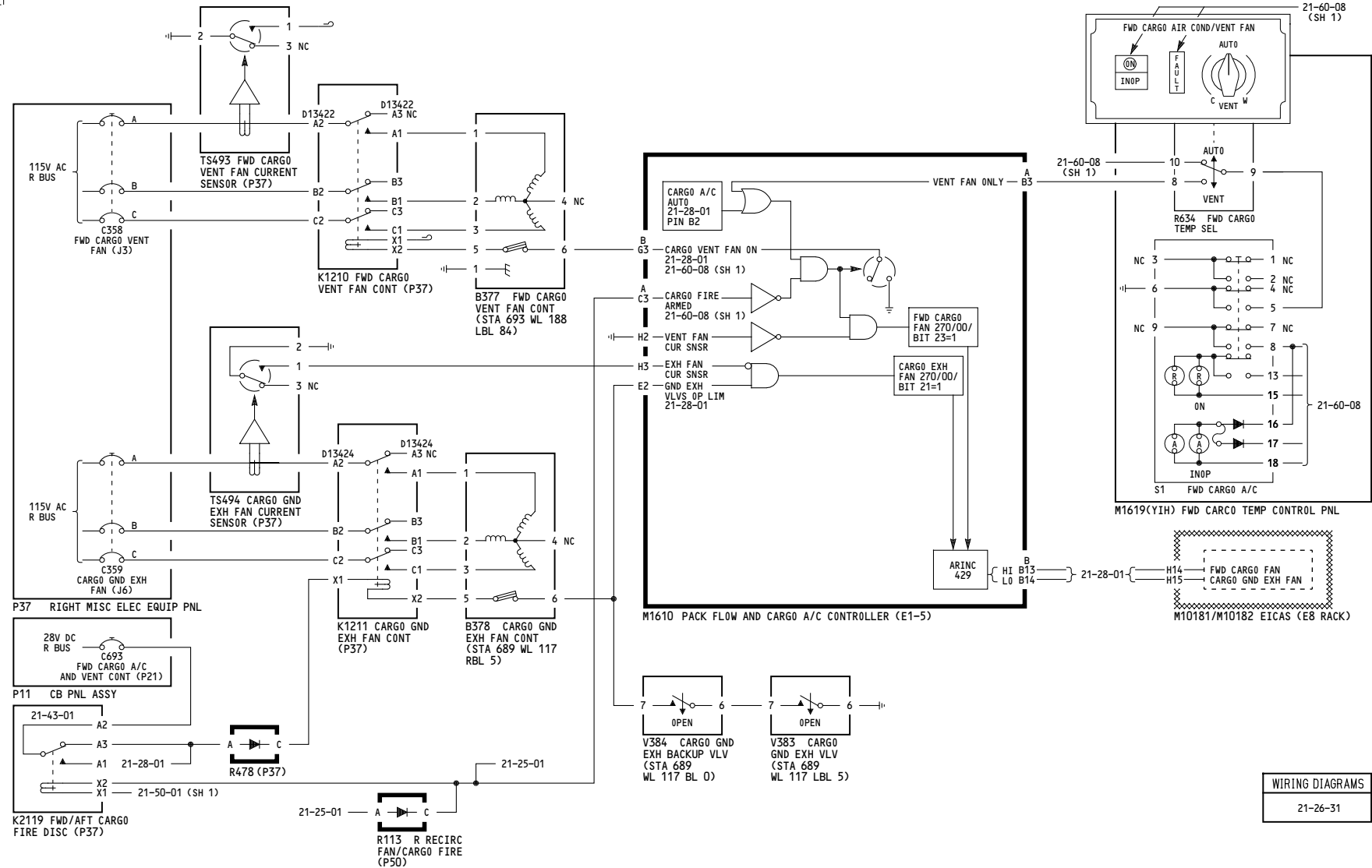
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**FORWARD CARGO
GROUND EXHAUST FAN**

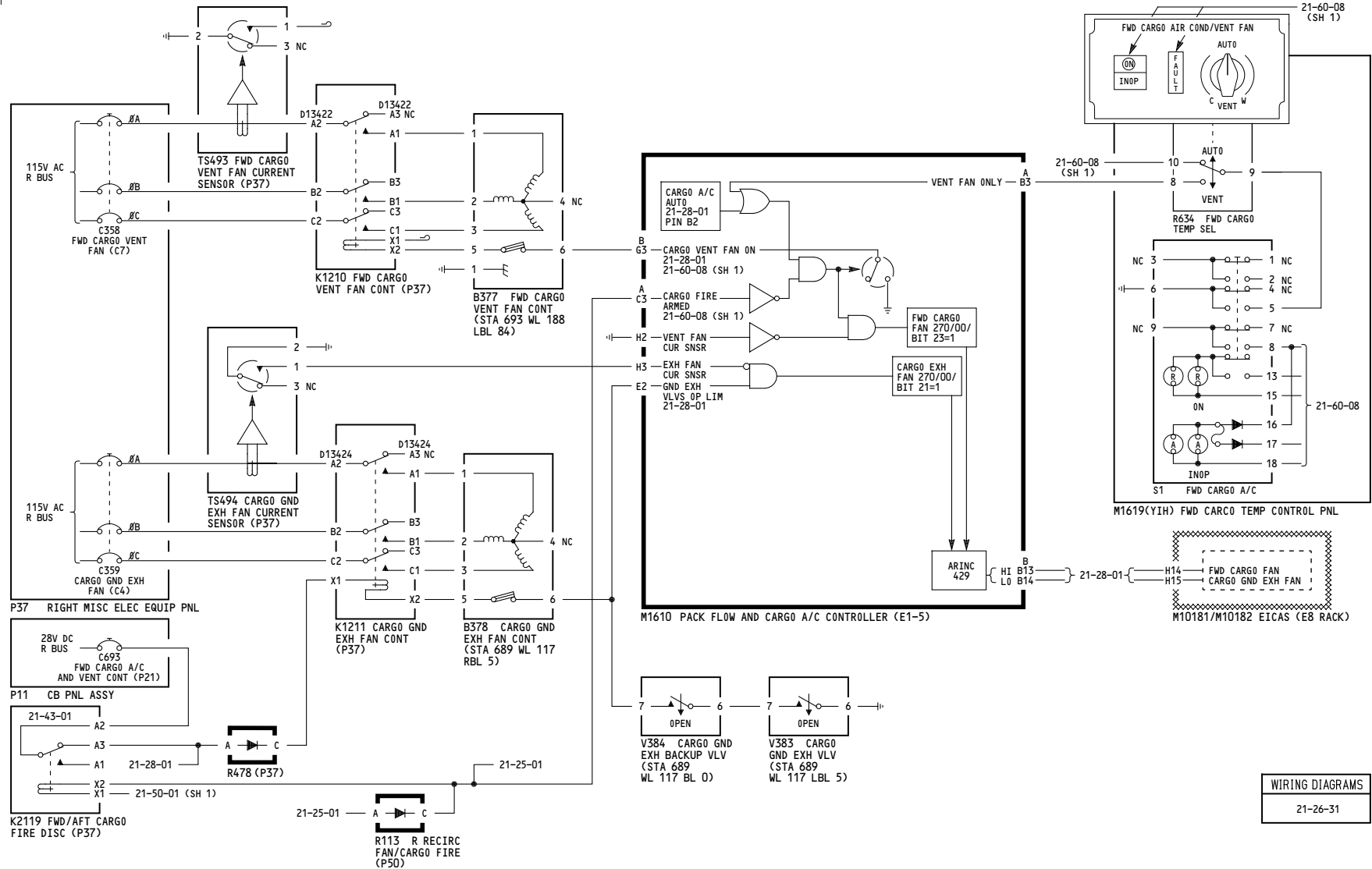
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FORWARD CARGO GROUND EXHAUST FAN

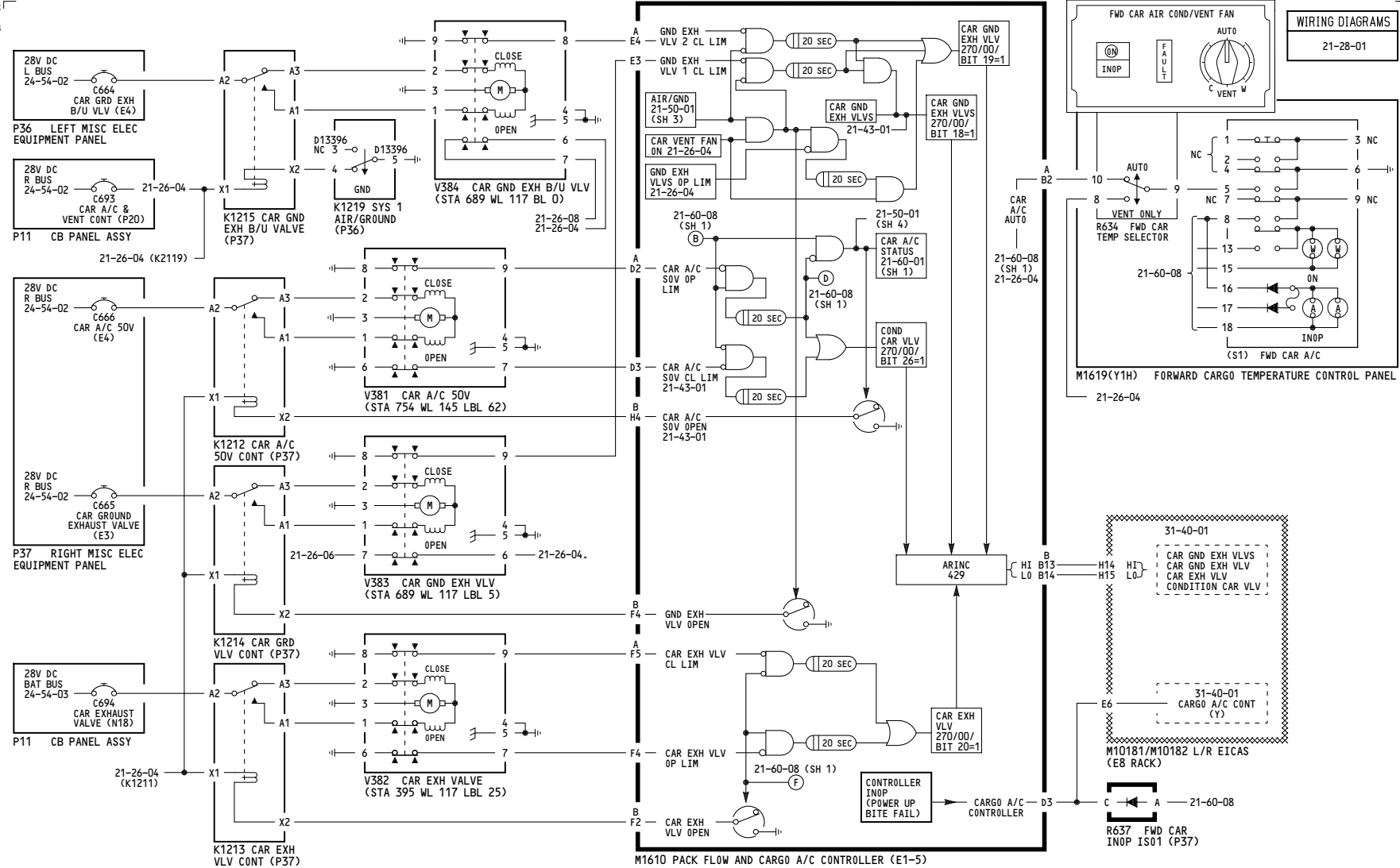
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LOWER FORWARD CARGO AIR CONDITIONING

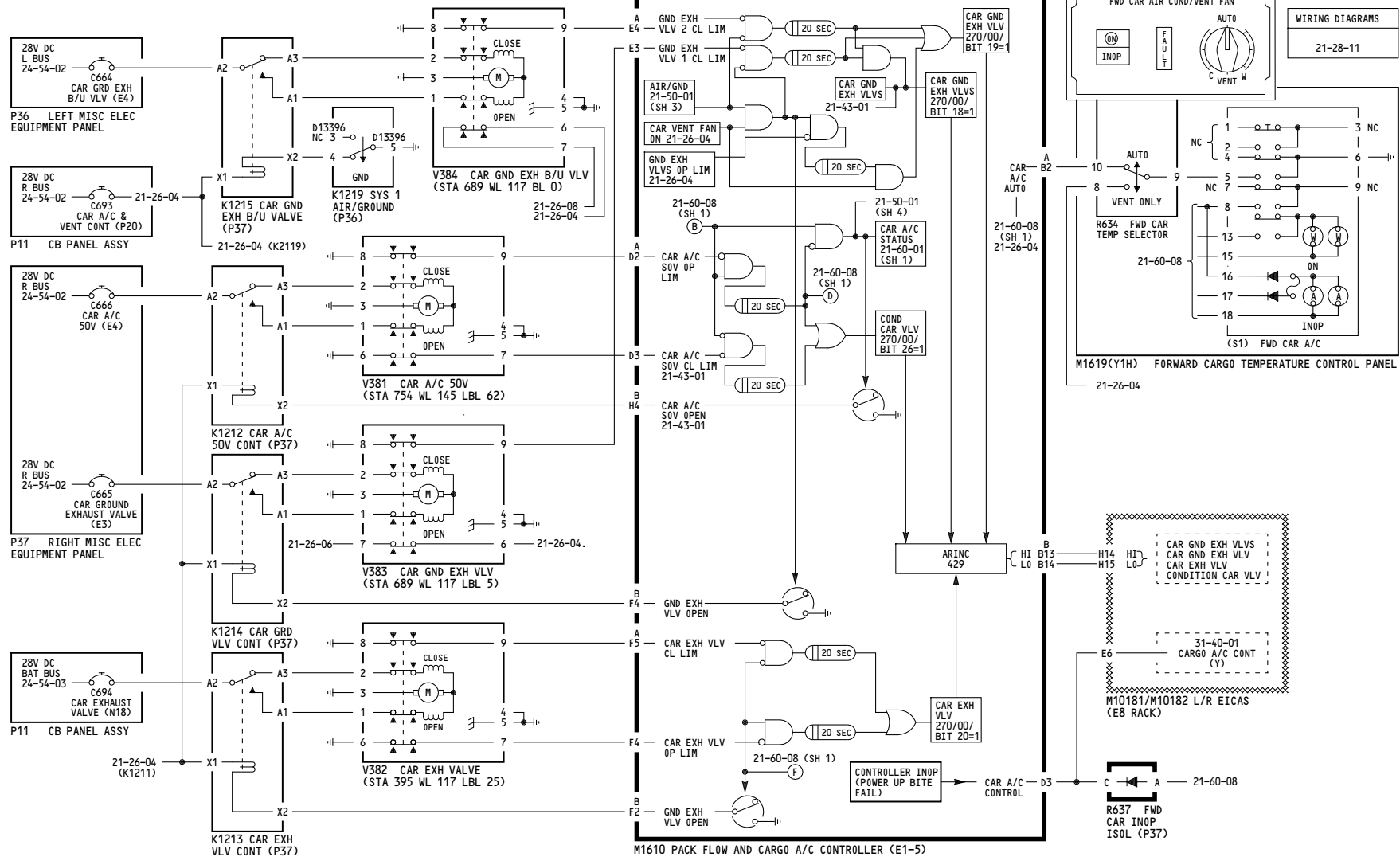
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21-28-01

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-B 616



150

**LOWER FORWARD CARGO
AIR CONDITIONING**

Incorporates
▶ 21-0078

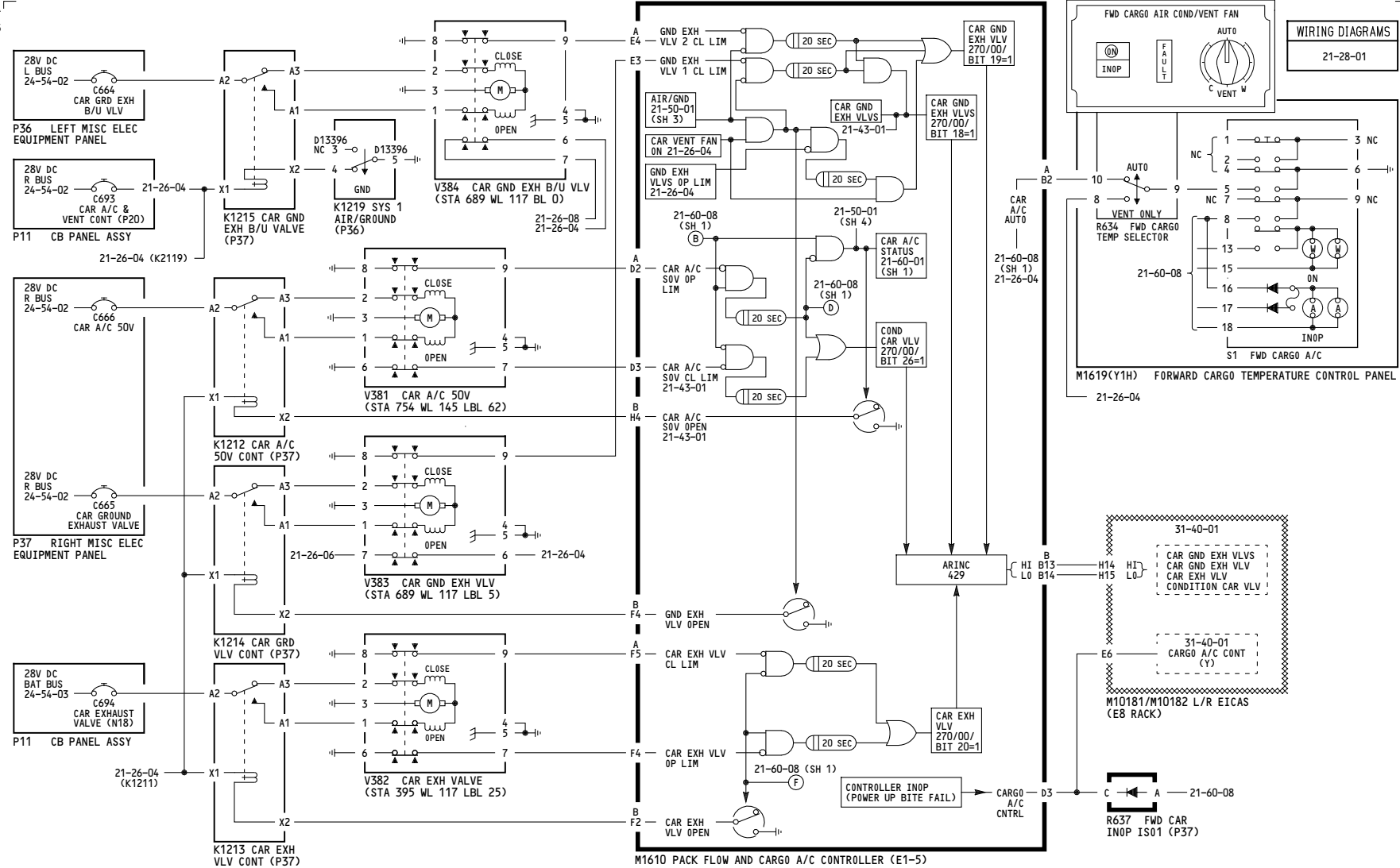
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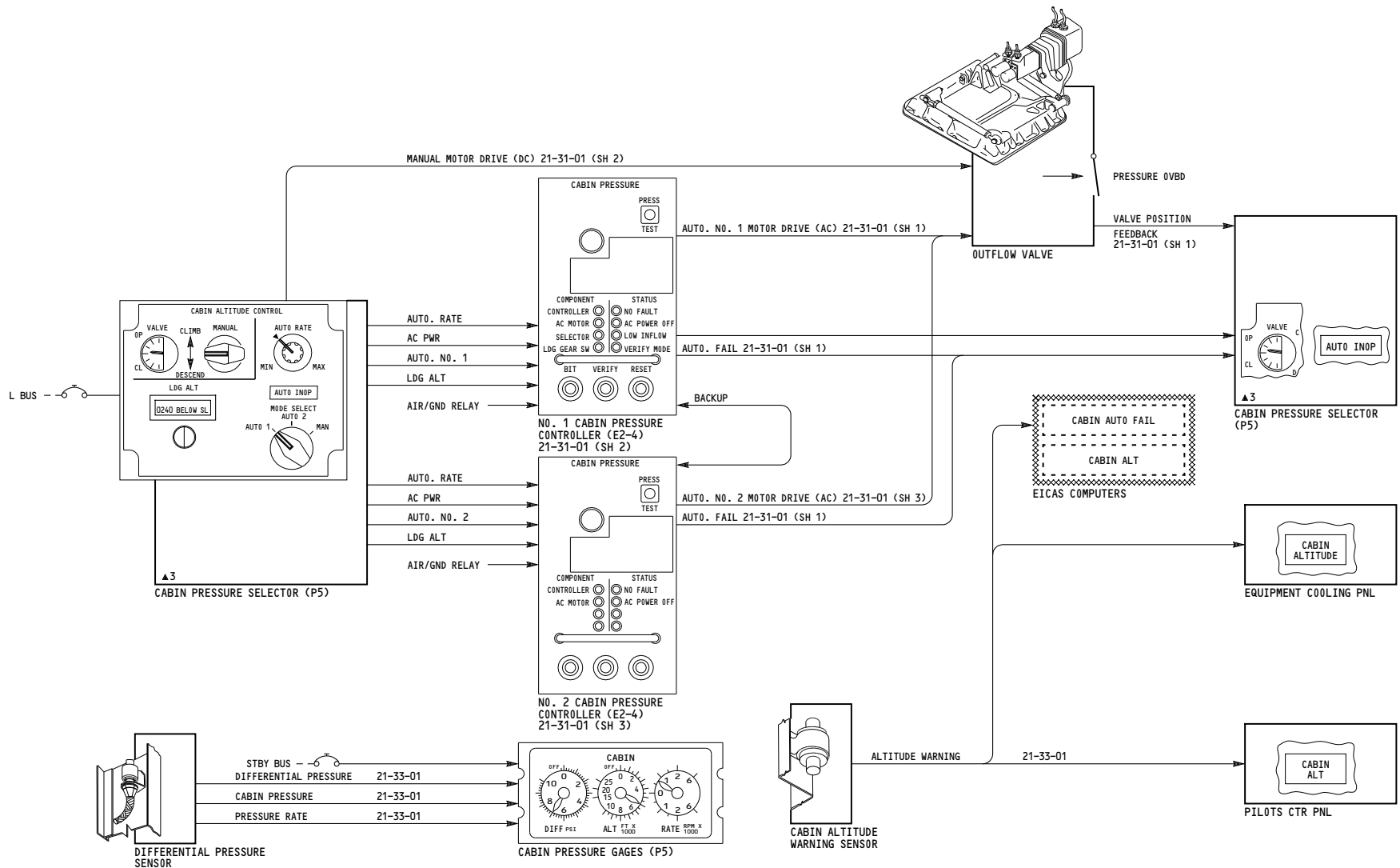
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Mar 07/2008

D280T232

615





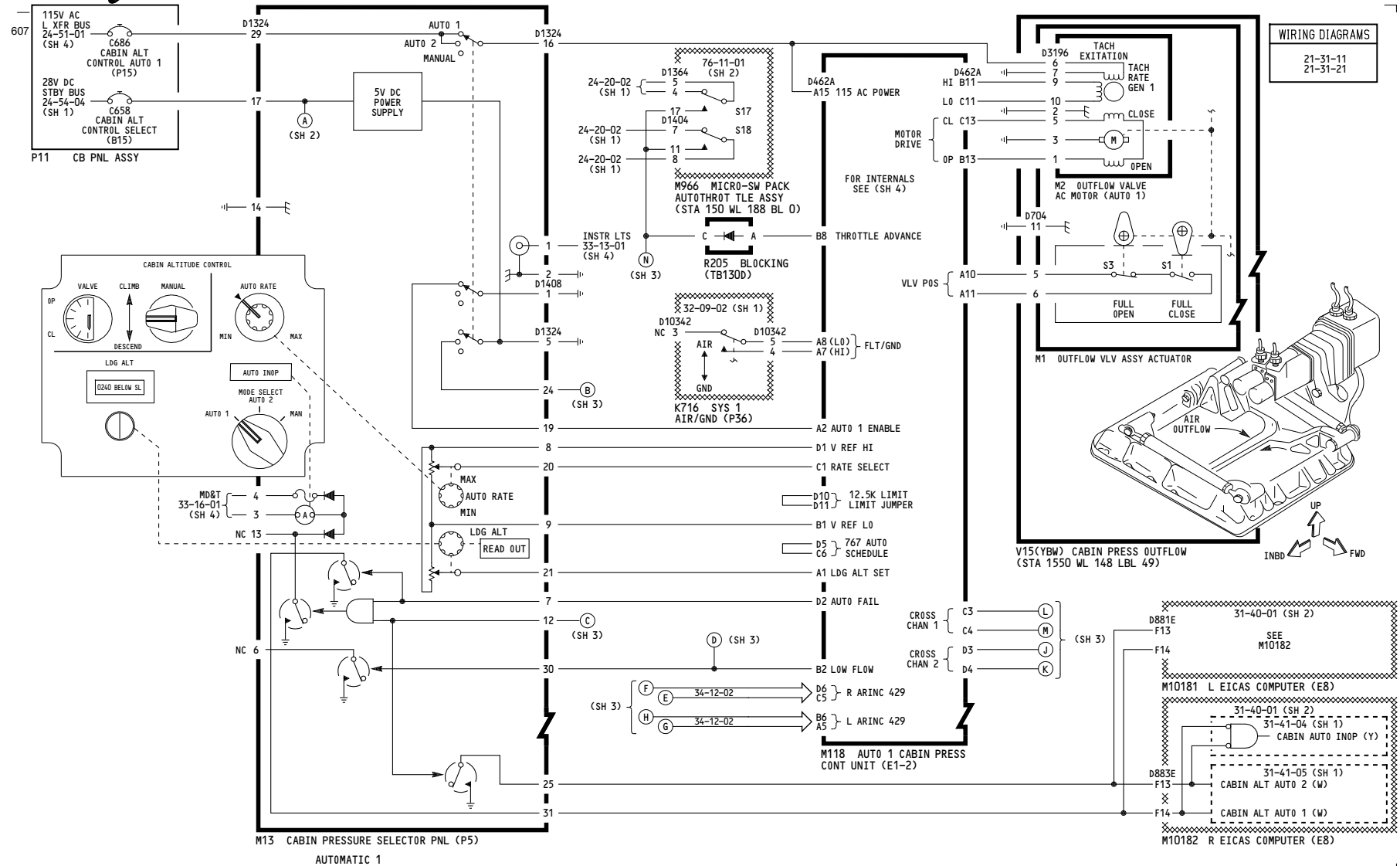
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	D280T232

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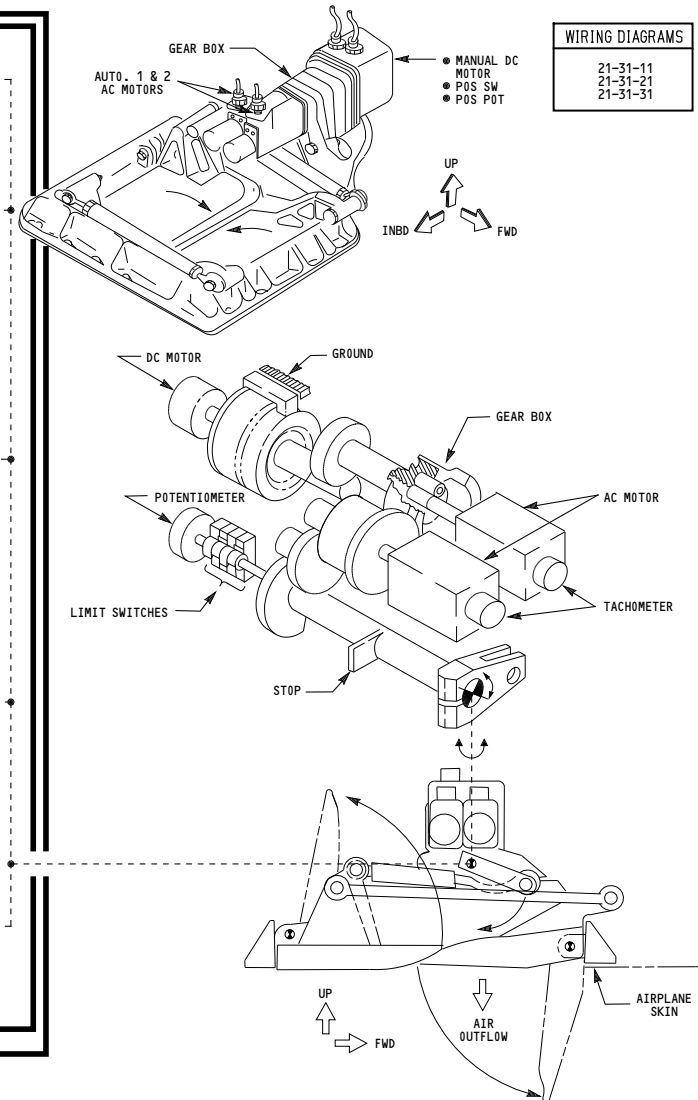
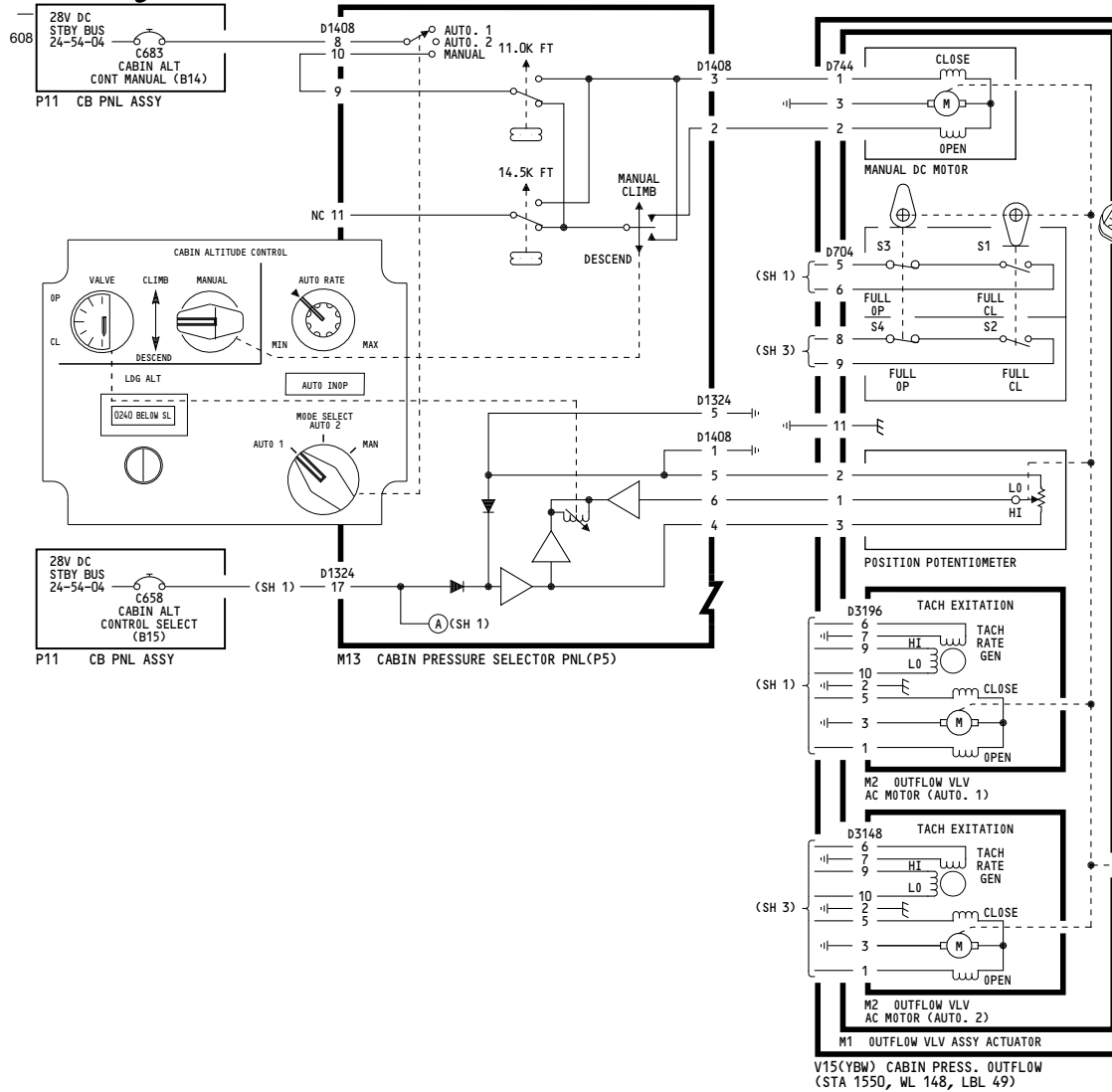
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CABIN PRESSURIZATION

D280T232

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WIRING DIAGRAMS

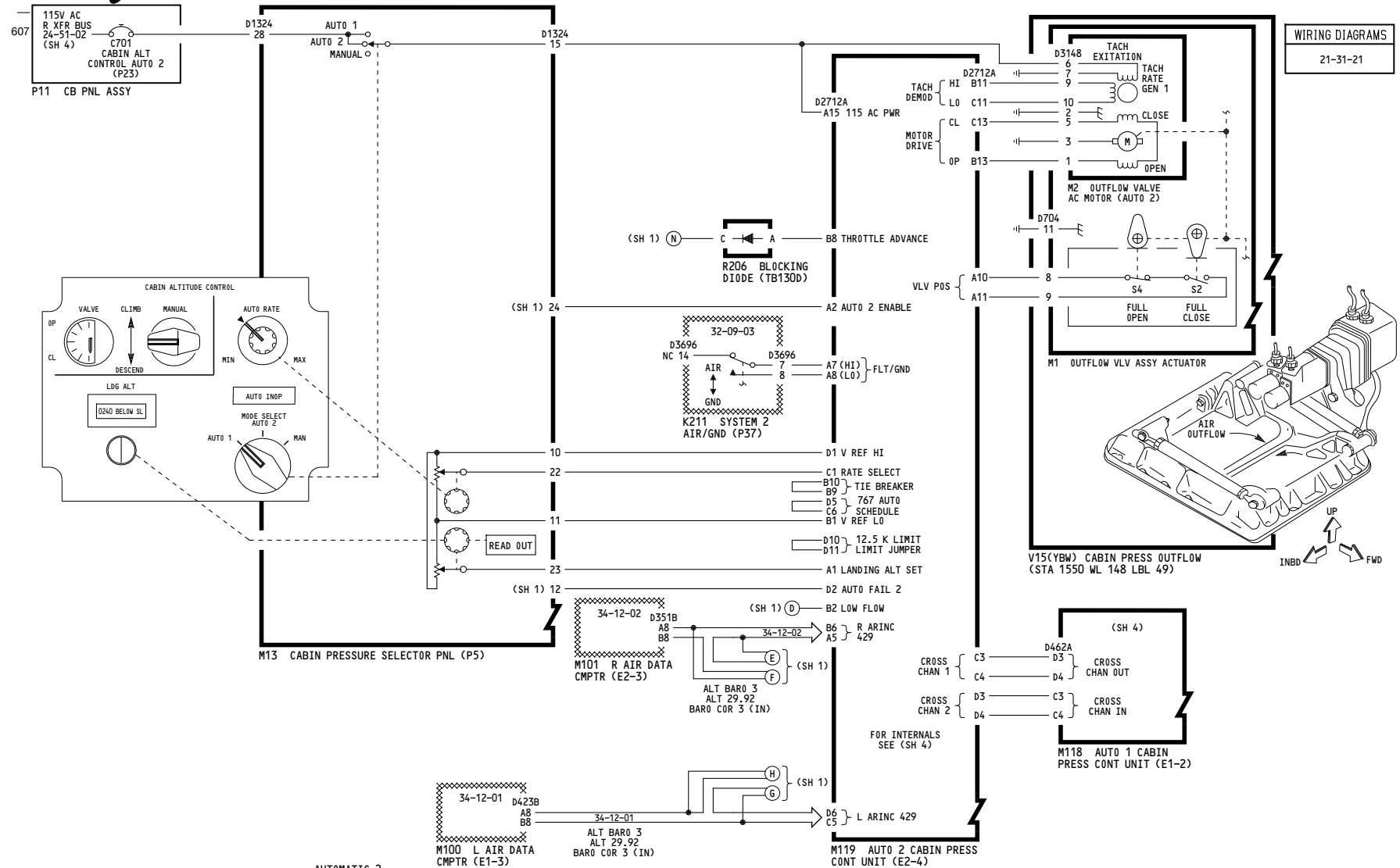
21-31-11

21-31-21

21-31-31

MANUAL	
ALL	CABIN PRESSURIZATION
	D280T232

21-31-01

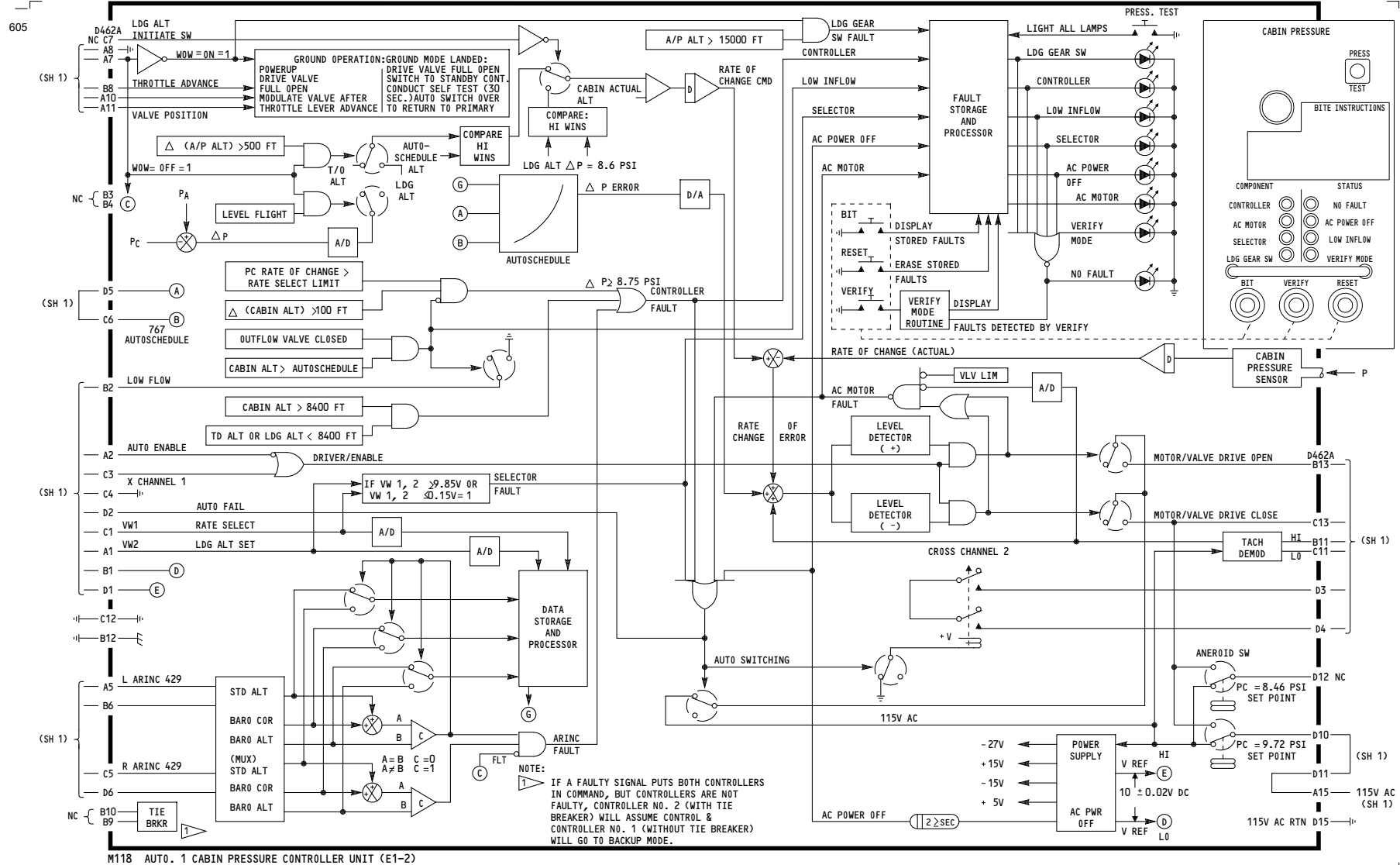


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CABIN PRESSURIZATION

D280T232

21-31-01



M118 AUTO. 1 CABIN PRESSURE CONTROLLER UNIT (E1-2)

ALL

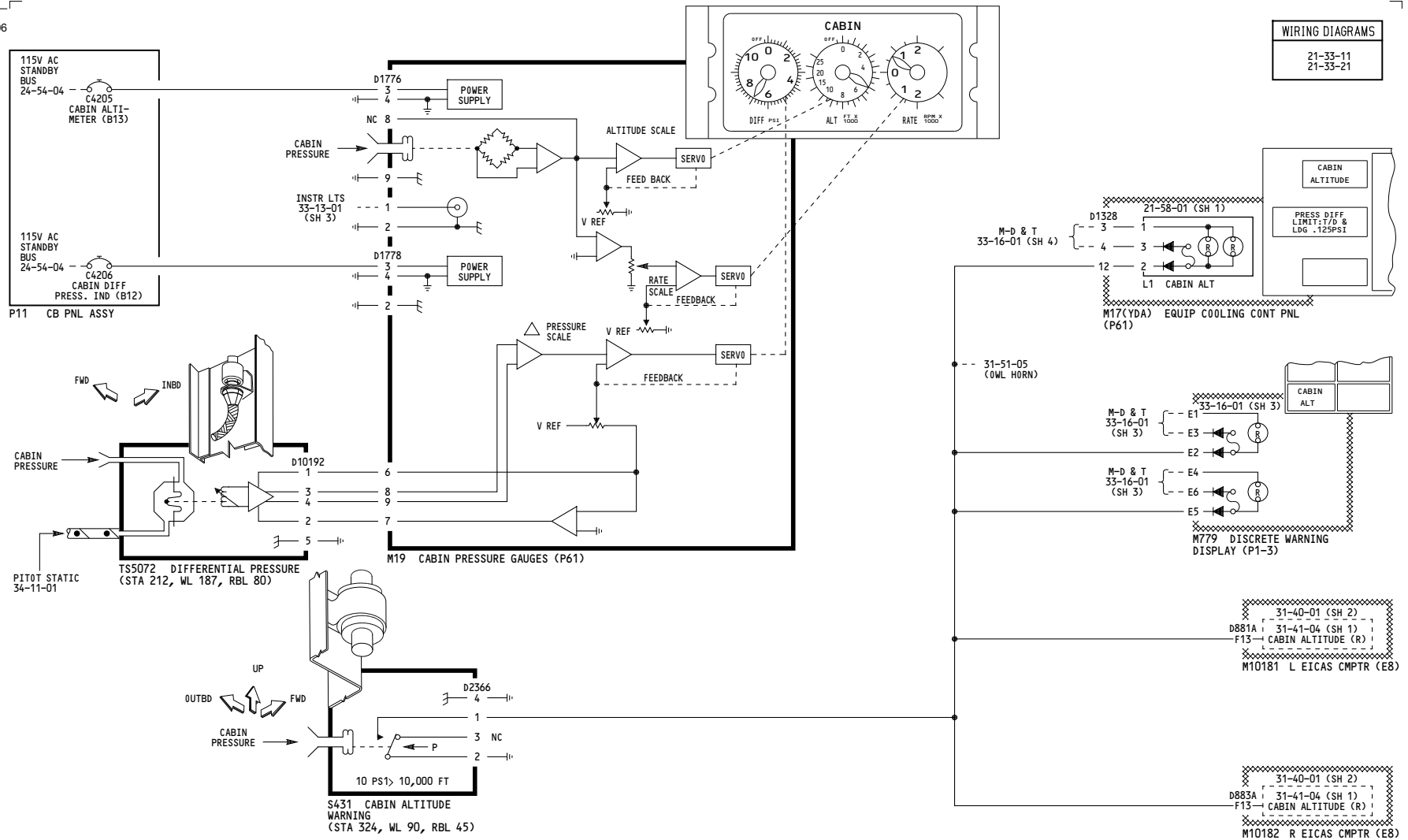
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D280T232

21-31-01

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Sheet 4
Jan 21/2005

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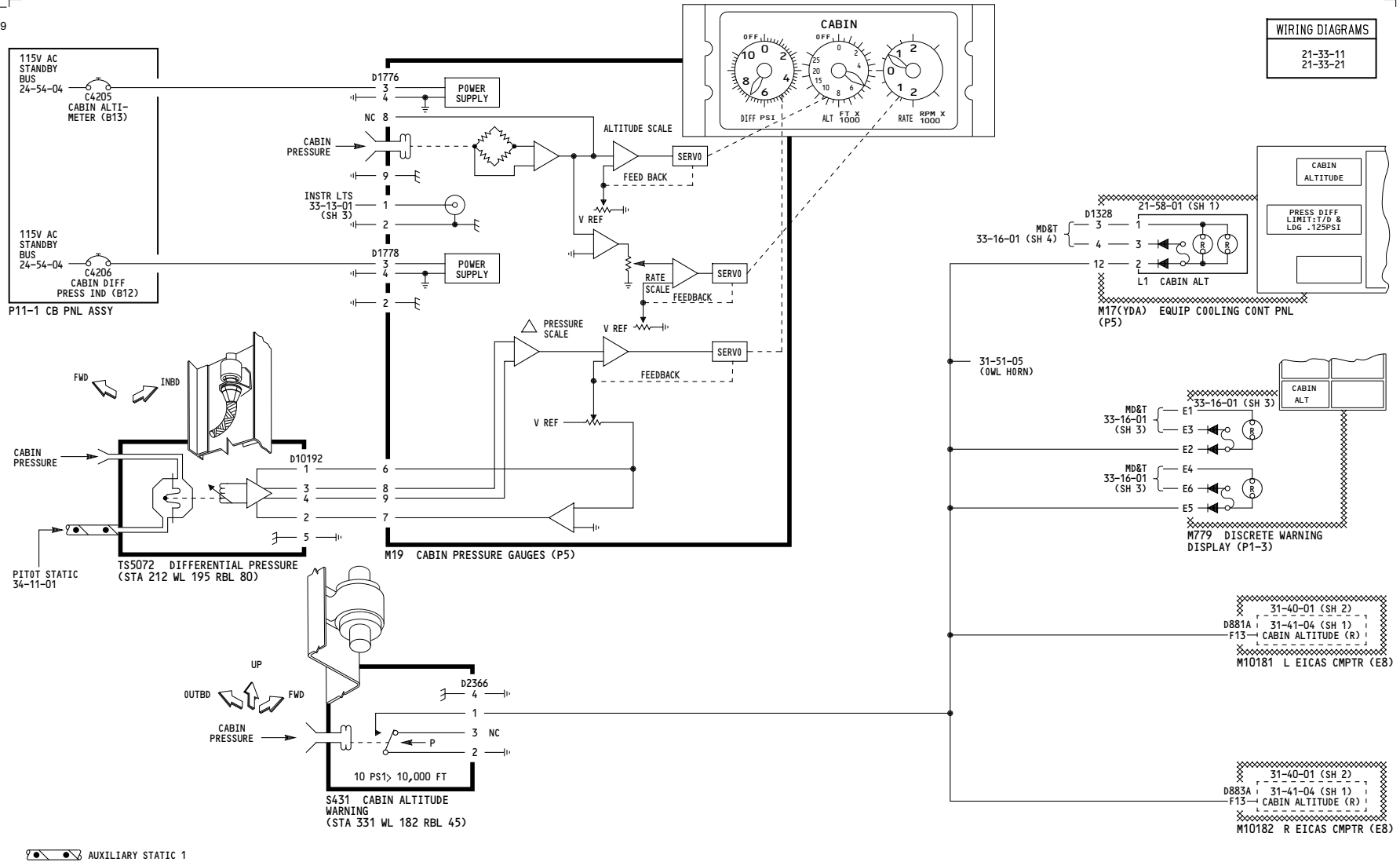
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050-099

CABIN PRESSURIZATION-INDICATING AND WARNING

D280T232

609



150-199, 275-299

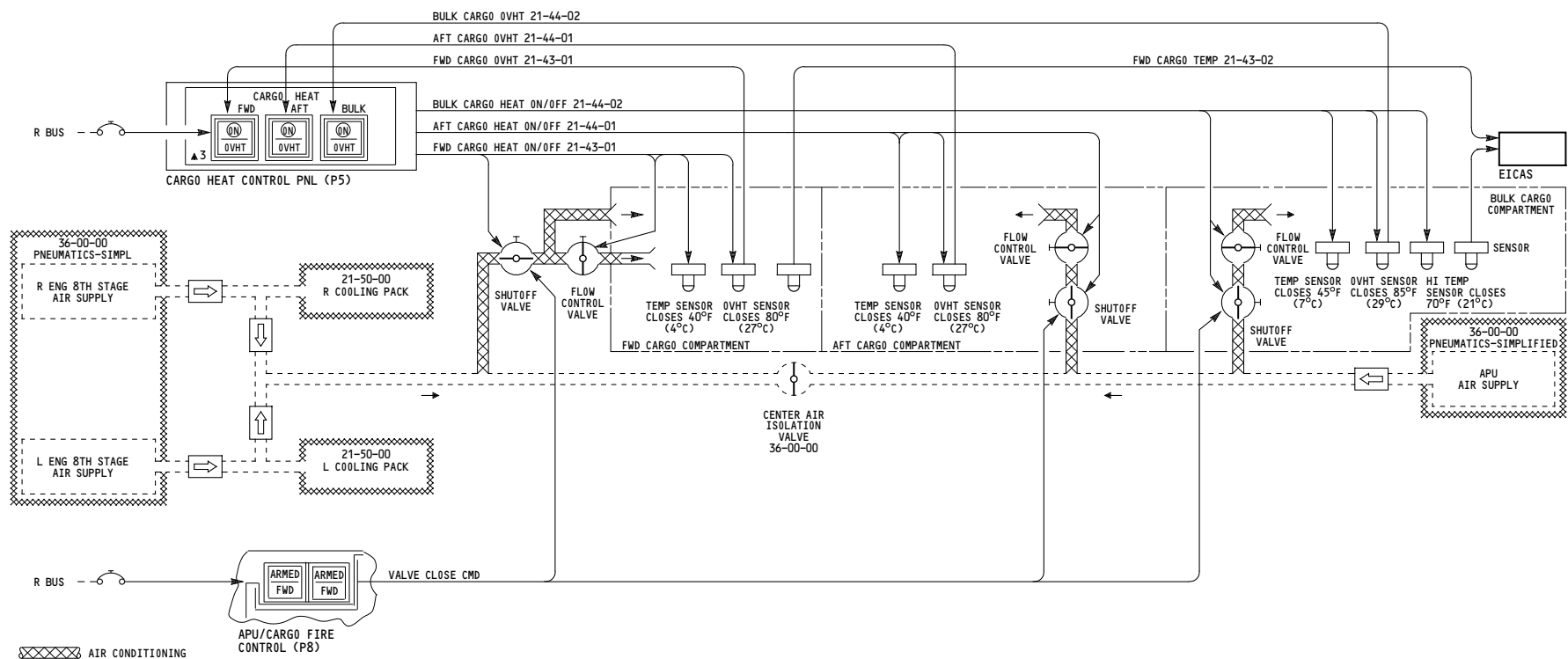
**CABIN PRESSURIZATION-
INDICATING AND WARNING**

D280T232

21-33-01

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050-099, 150-199

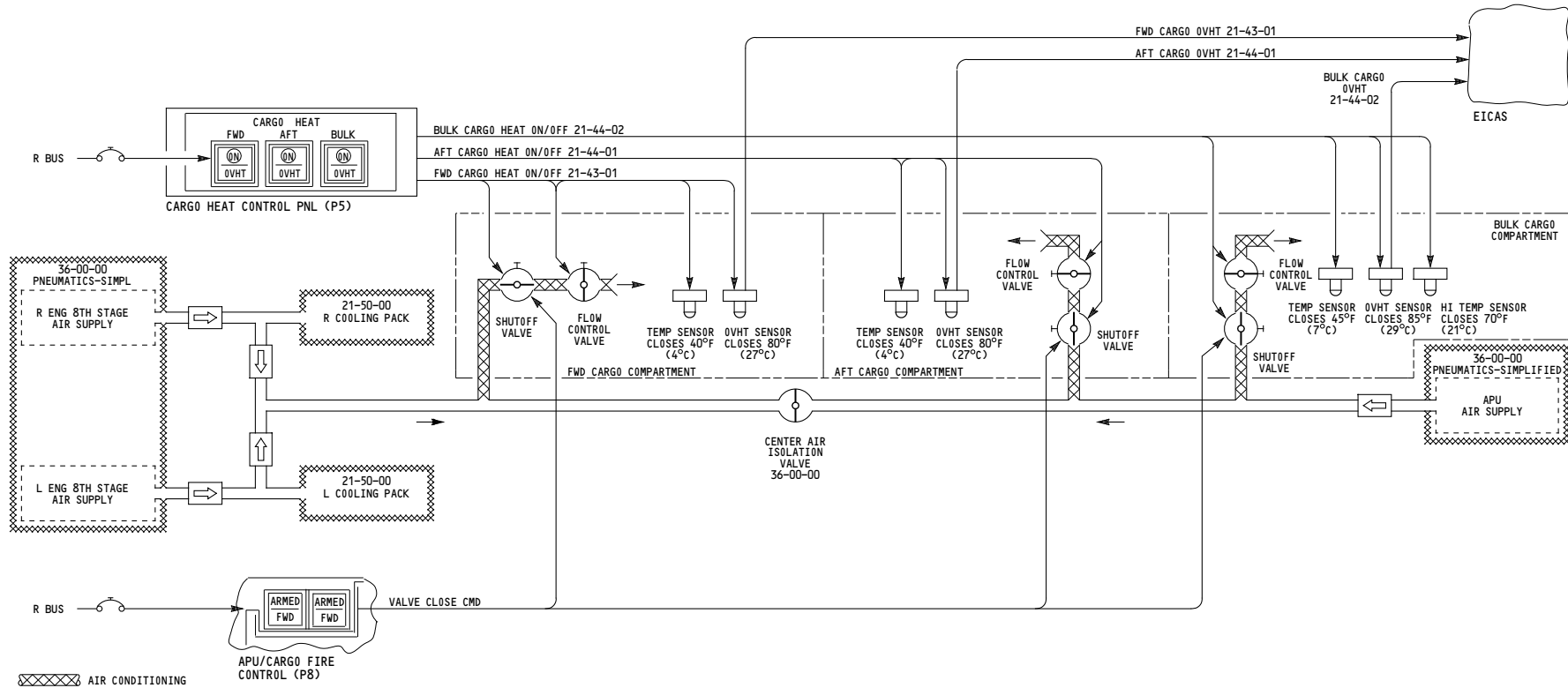
HEATING-SIMPLIFIED

D280T232

21-40-00

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275-299

**HEATING-
SIMPLIFIED**

D280T232

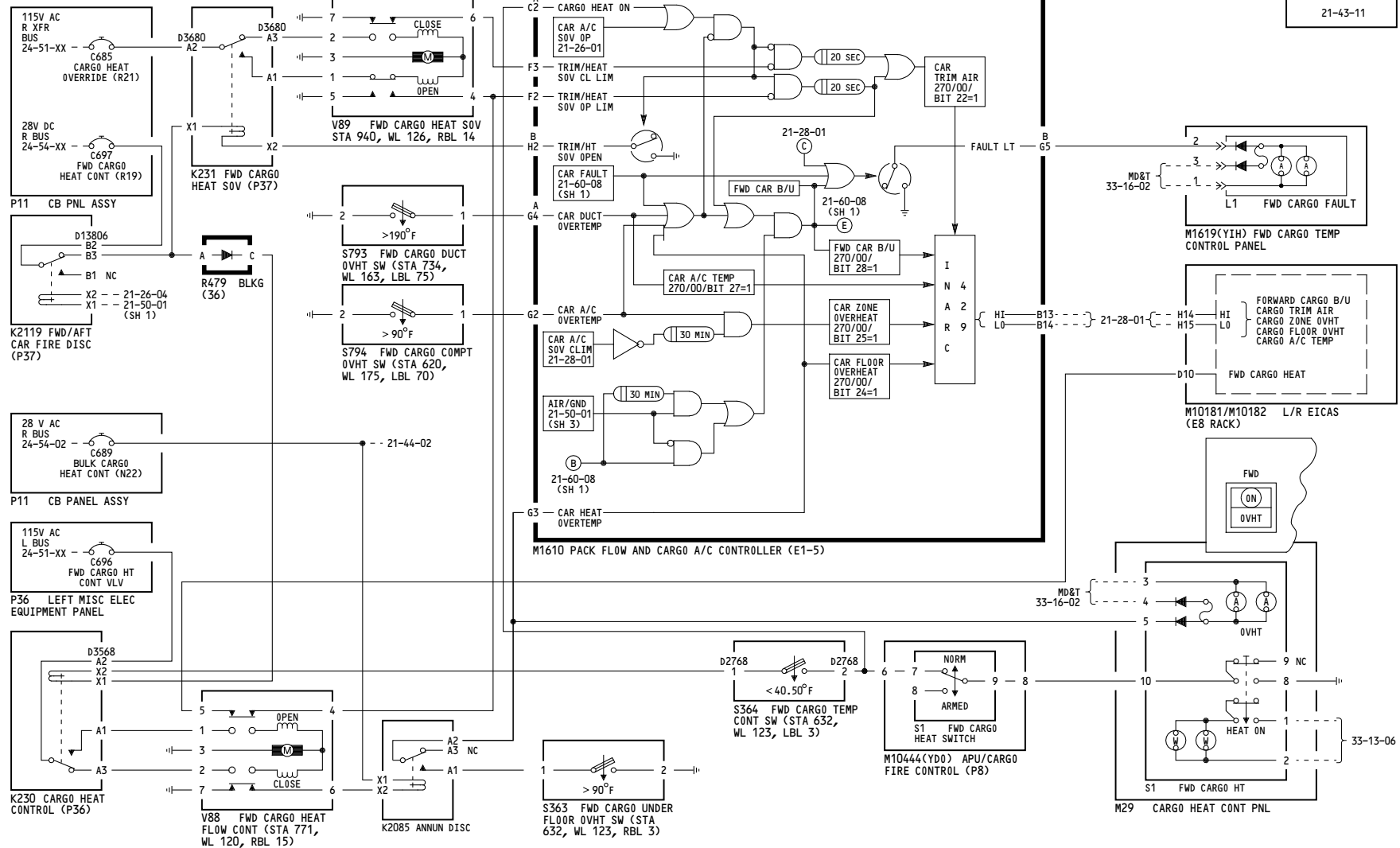
21-40-00

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615

WIRING DIAGRAMS
21-43-11



050-099, 155-199

FORWARD CARGO HEATING

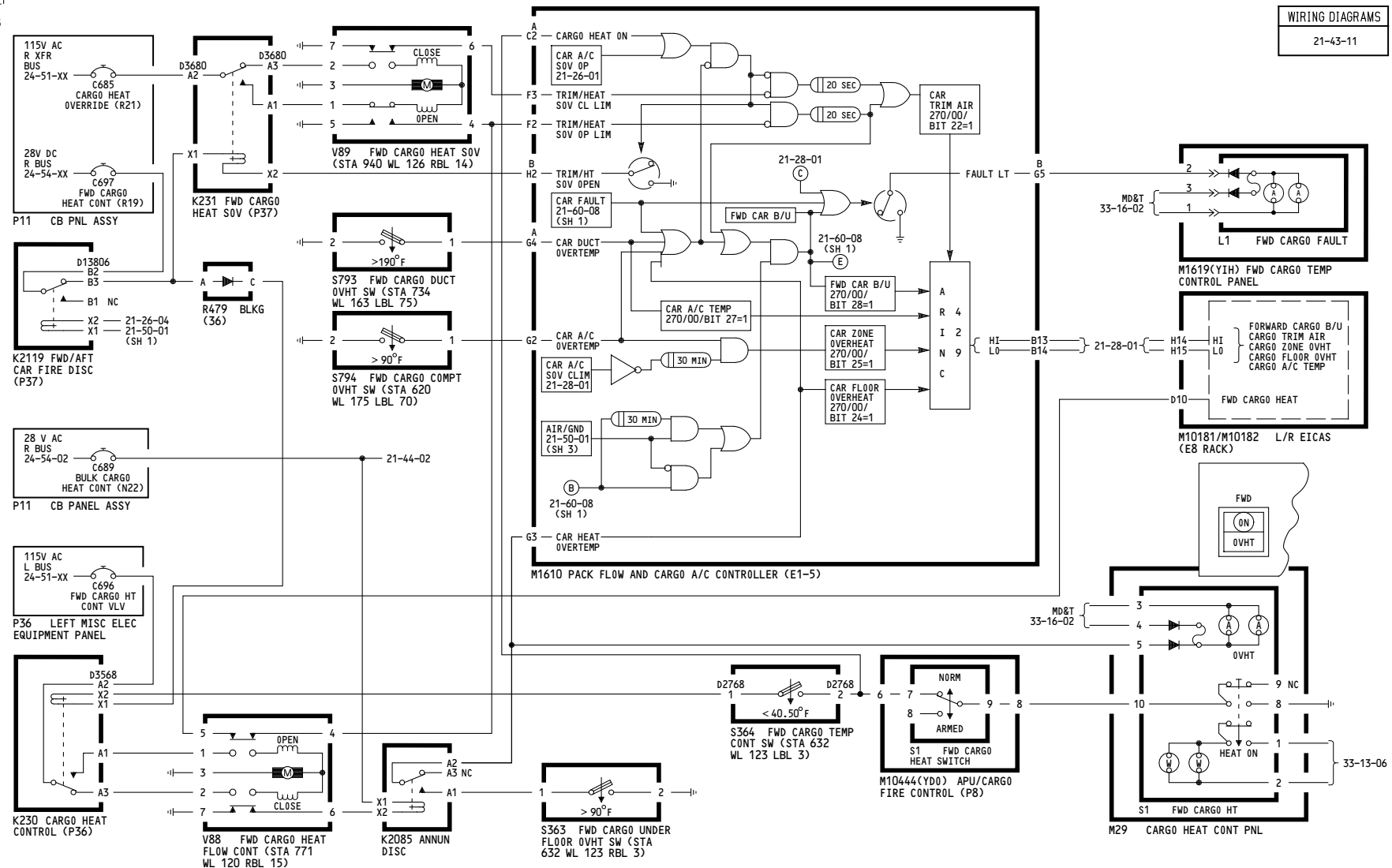
D280T232

21-43-01

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635



150-154

FORWARD CARGO HEATING

Incorporates
21-0086

D280T232

21-43-01

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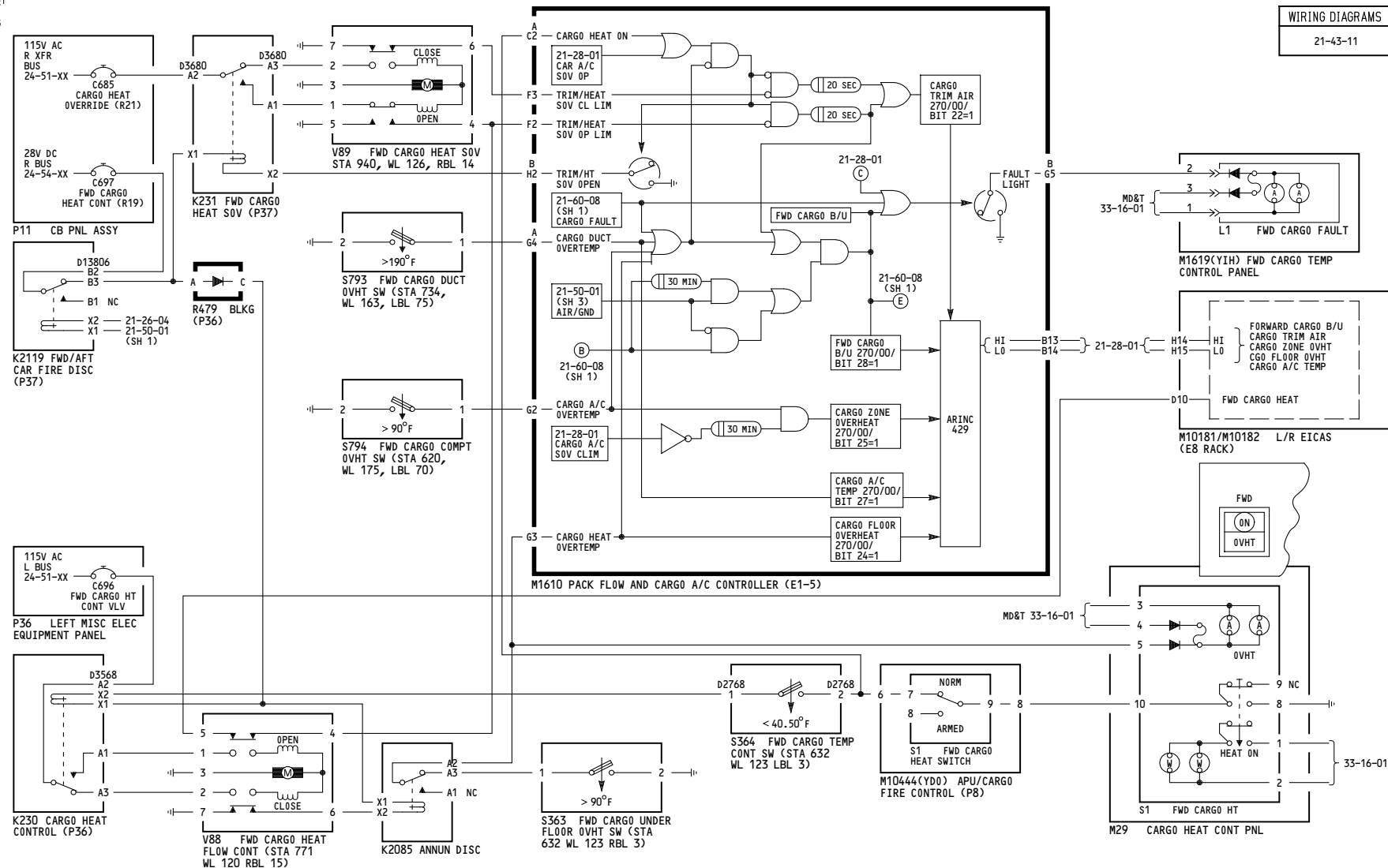


WIRING DIAGRAMS



616

WIRING DIAGRAMS
21-43-11



276-299

FORWARD CARGO HEATING

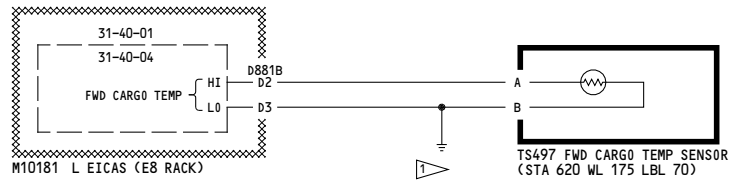
D280T232

21-43-01

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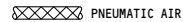
1 SPLICE IS LOCATED WITHIN ONE (1) FOOT FROM SENSOR

050-099, 150-199, 277-299	LOWER FORWARD CARGO TEMPERATURE INDICATION
	D280T232

21-43-02

Page 101

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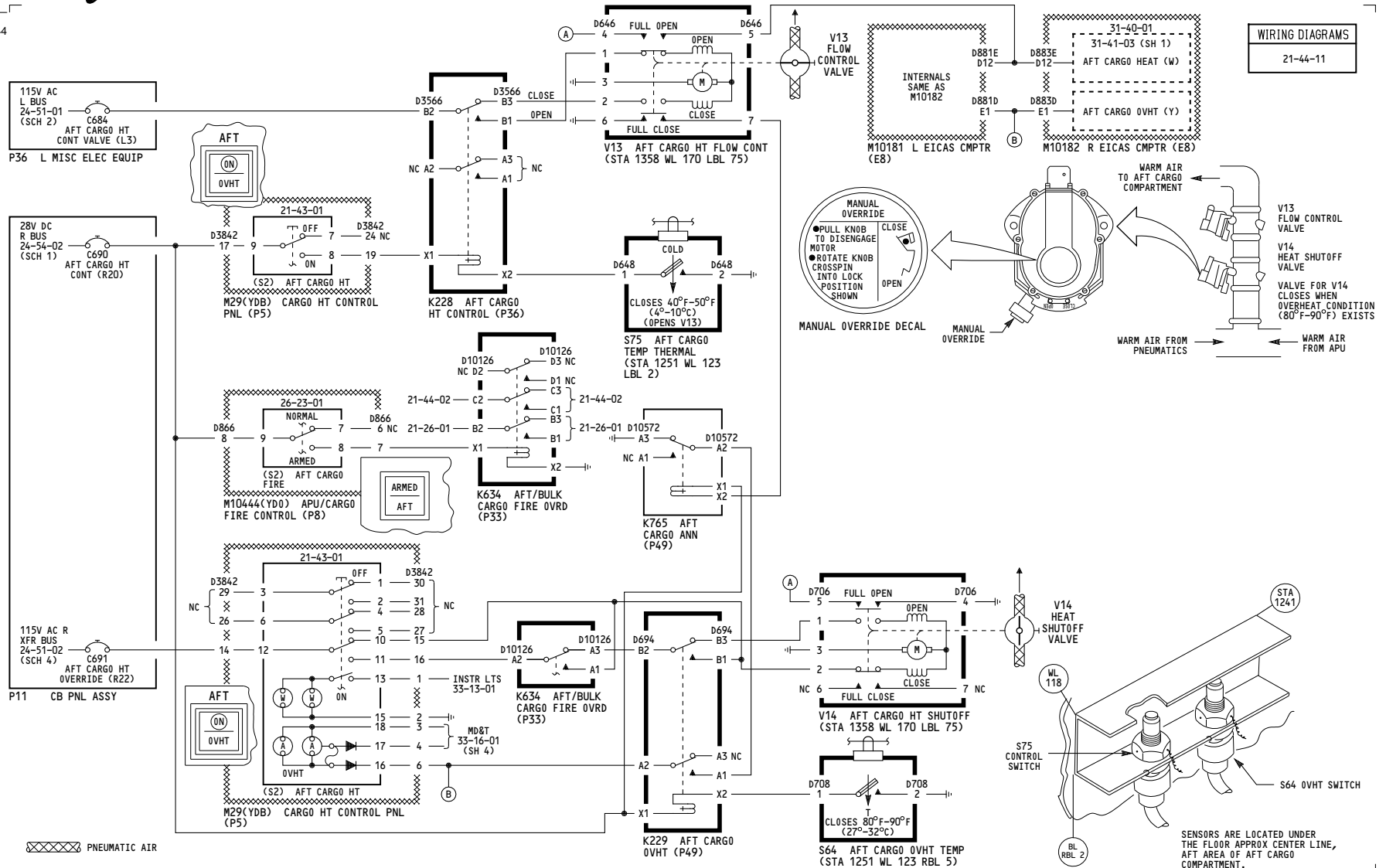


**HEATING-
AFT CARGO**

D280T232

21-44-01

644



051

HEATING-AFT CARGO

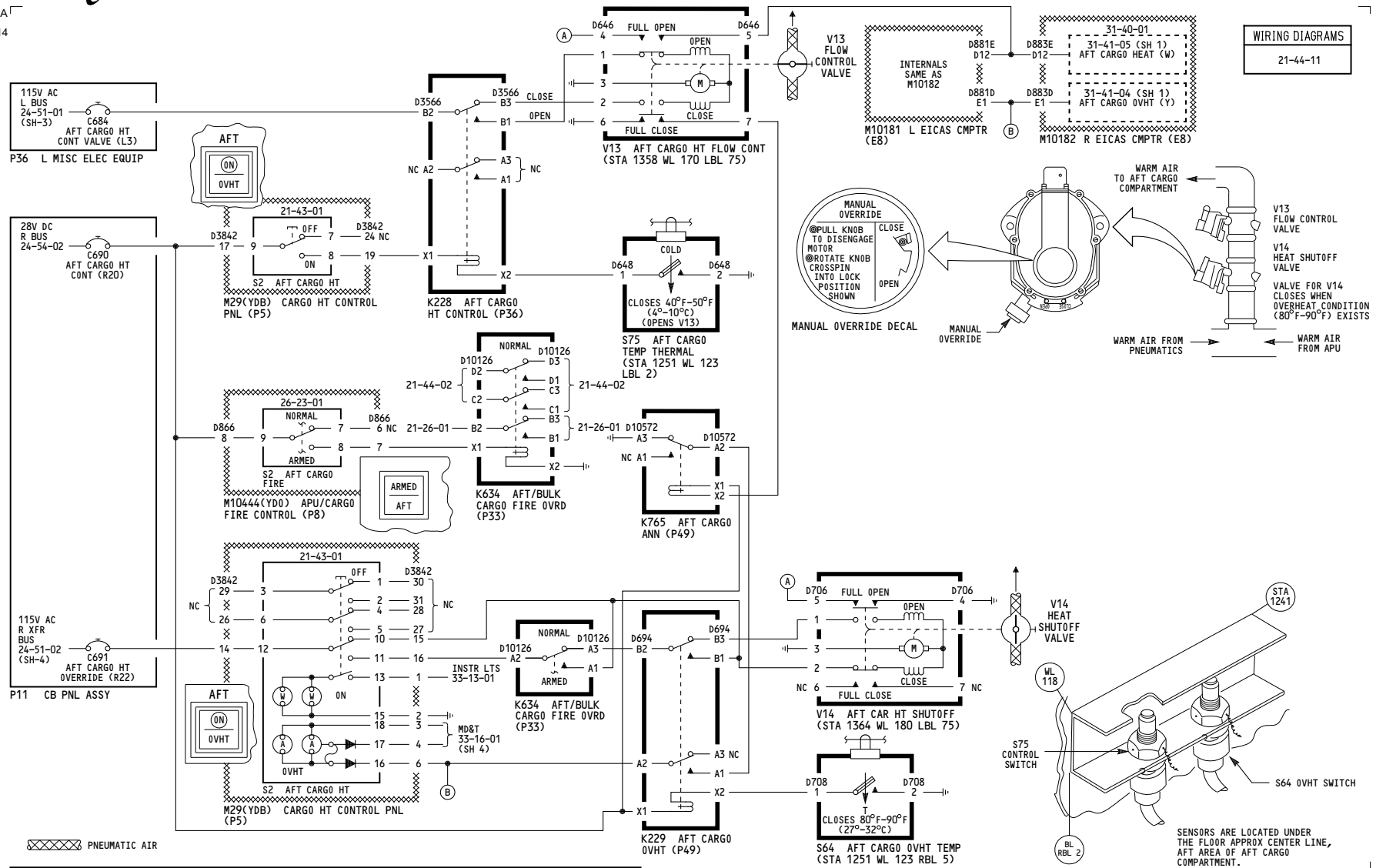
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21-44-01

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Jan 21/2005

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614



150-199, 275-299

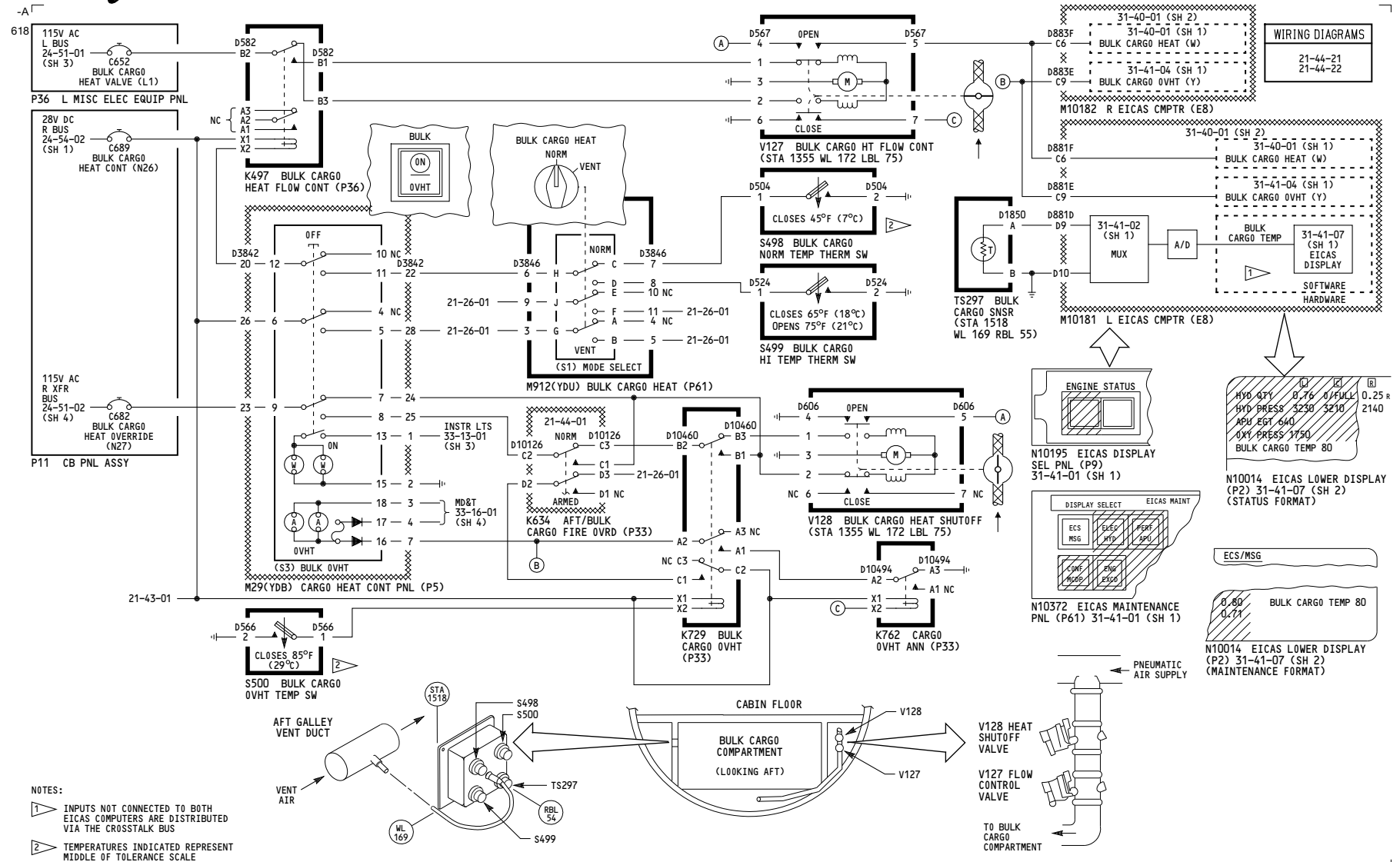
HEATING- AFT CARGO

D280T232

21-44-01

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050-099, 150-199

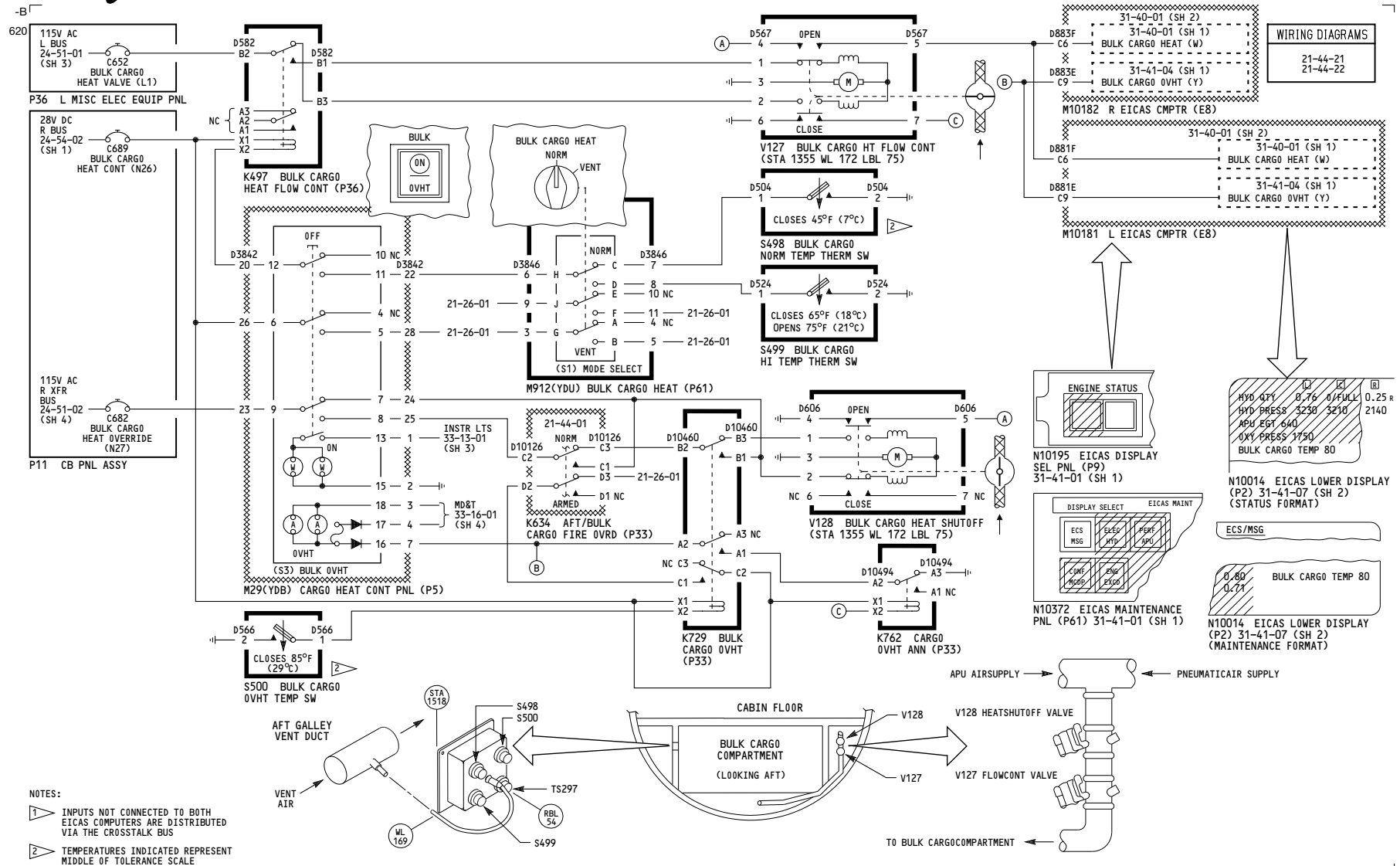
HEATING- BULK CARGO

D280T232

21-44-02

Page 101

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275-278

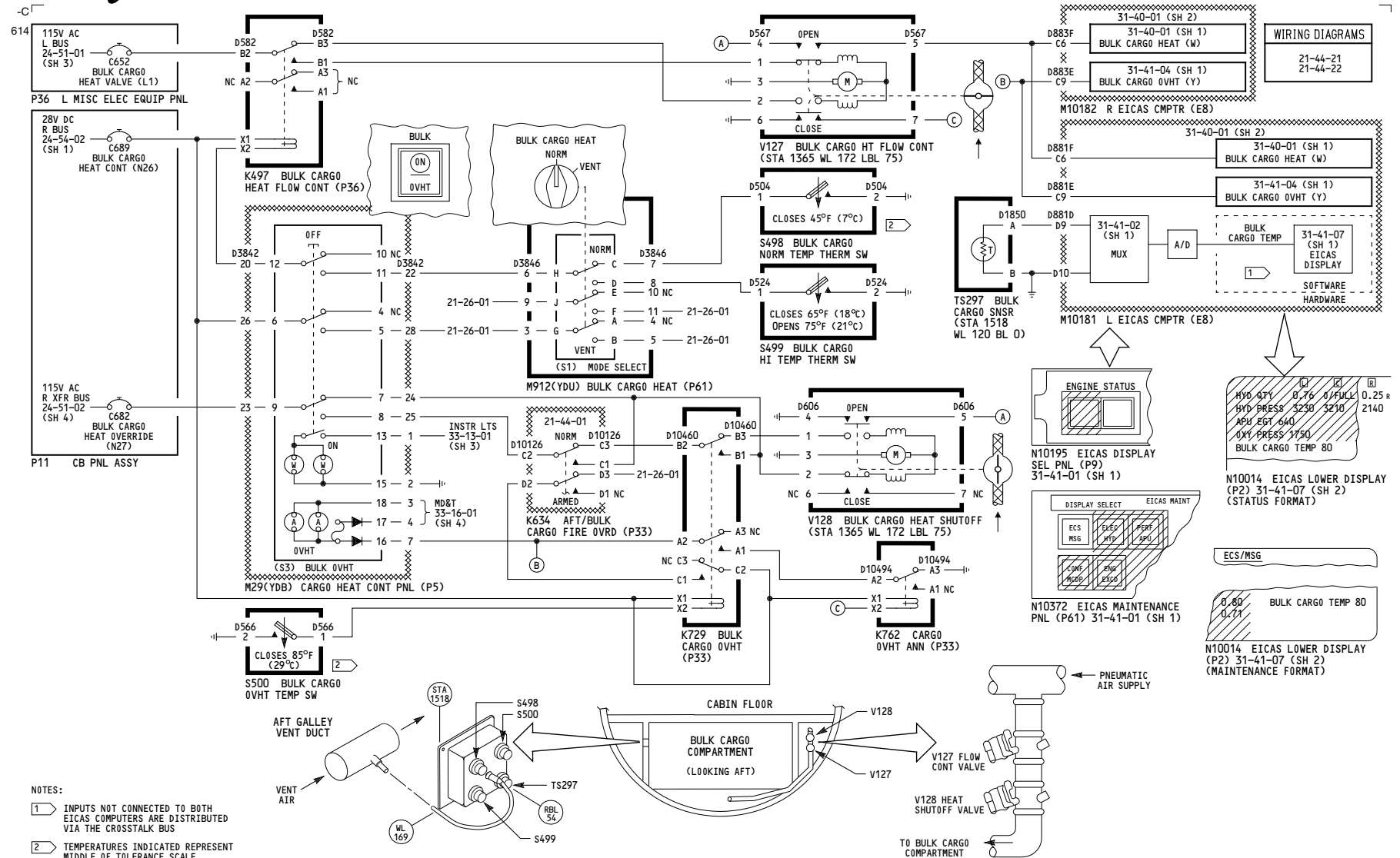
HEATING- BULK CARGO

D280T232

21-44-02

Page 102

Jan 21/2005

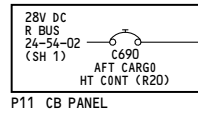


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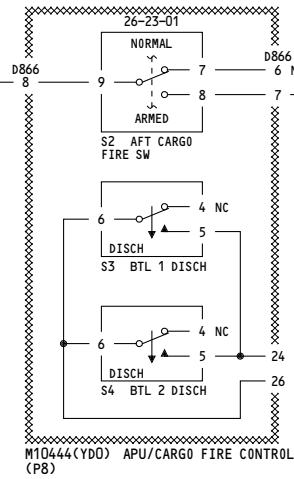
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612

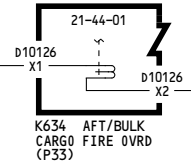


21-44-01



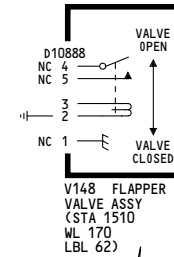
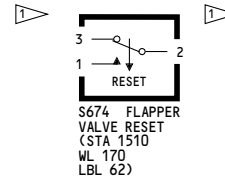
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(21-44-01)



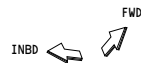
WIRING DIAGRAMS

21-44-11
21-44-21



NOTES:

1 REMOVE WIRE OR CAP AT EACH END



S674

150-154

**HEATING-
FLAPPER VALVE**

Incorporates
21A0098 R01

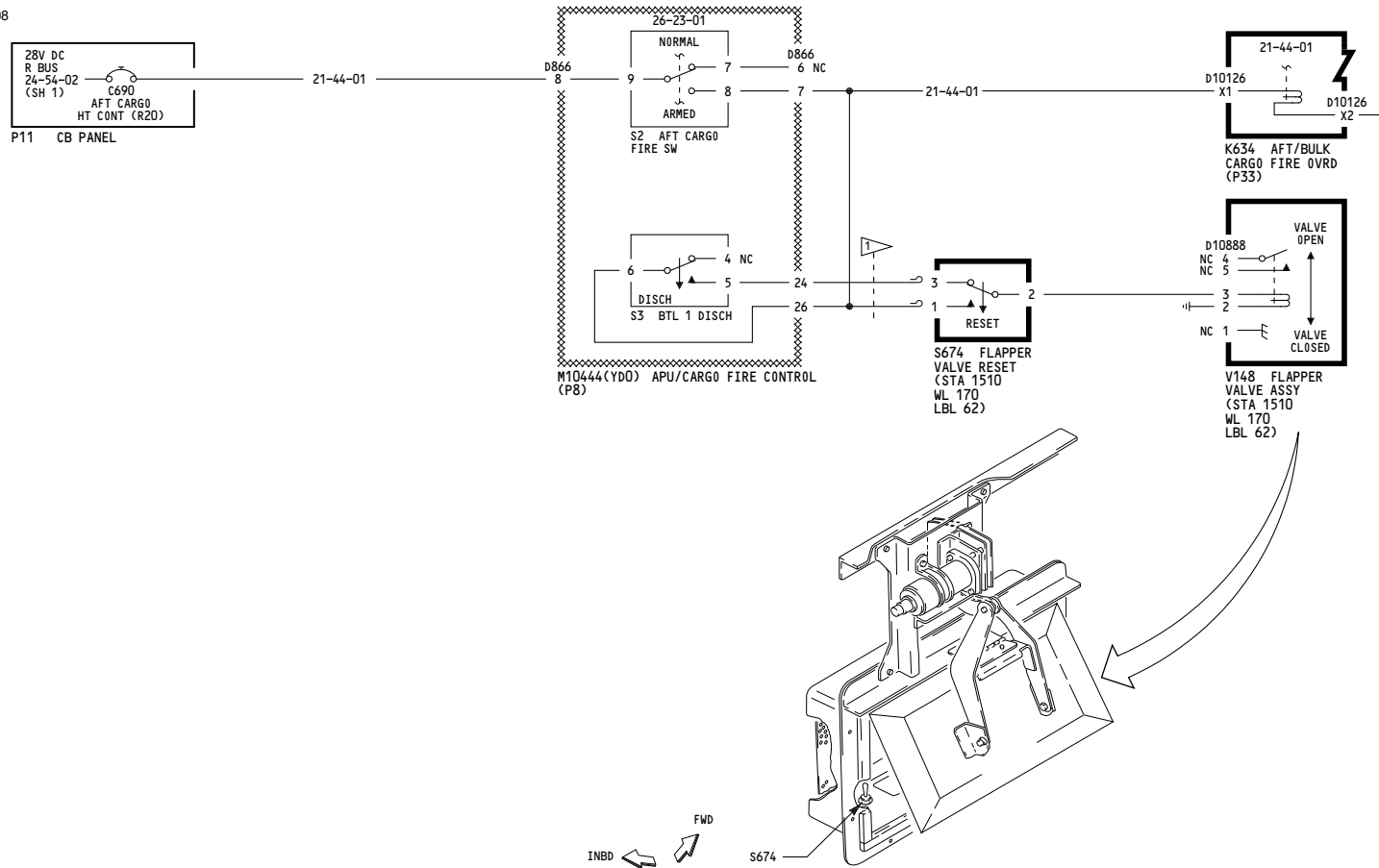
D280T232

21-44-03

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Jan 21/2005

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WIRING DIAGRAMS
21-44-11
21-44-21

NOTES:
CAP AND STOW NEAR S674

275-276	HEATING- FLAPPER VALVE
	D280T232

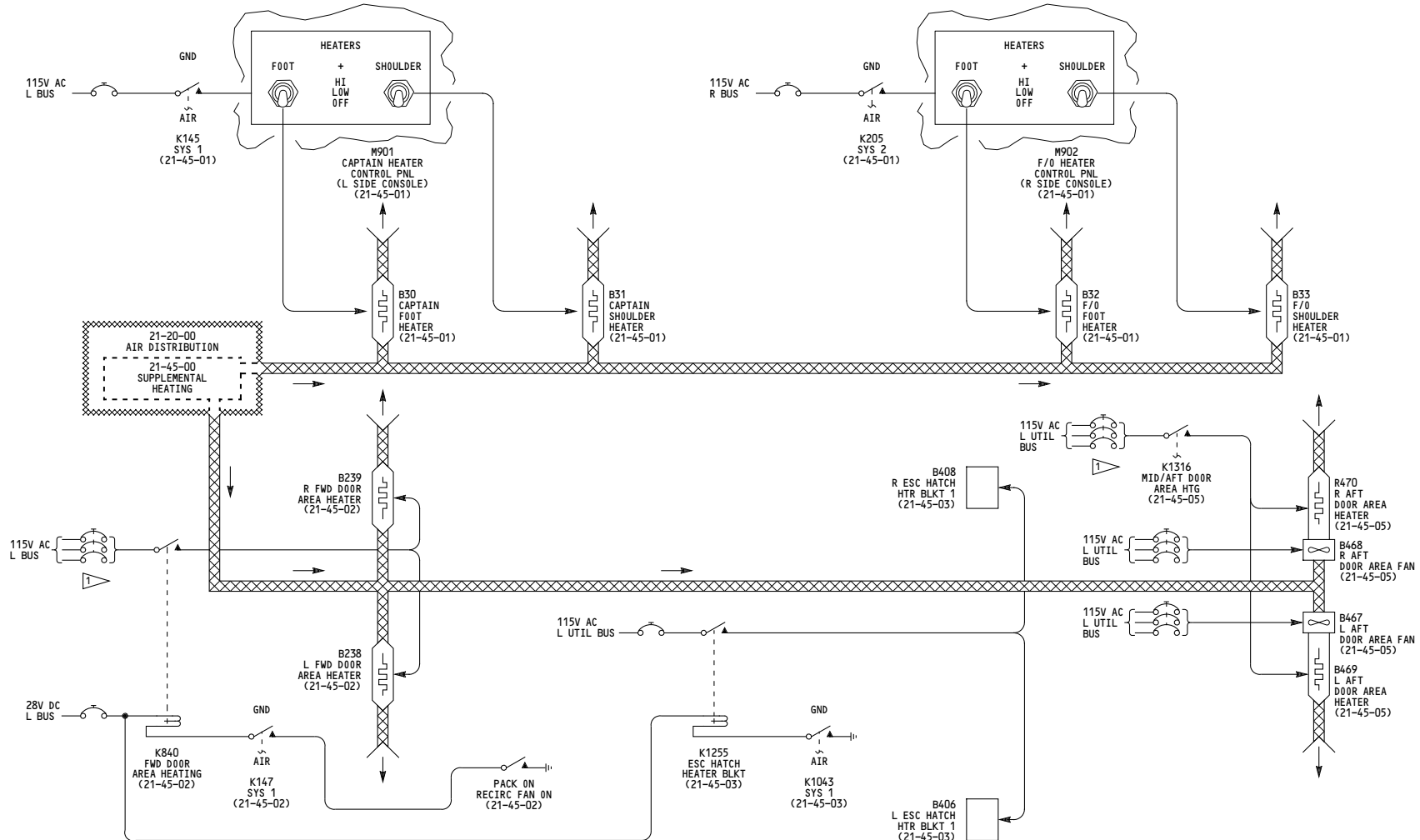
Incorporates
SL-21-26

21-44-03

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610



NOTES:
1 200V AC PHASE TO PHASE

050-051

SUPPLEMENTAL HEATING-SIMPLIFIED

Incorporates
21-0111 R01

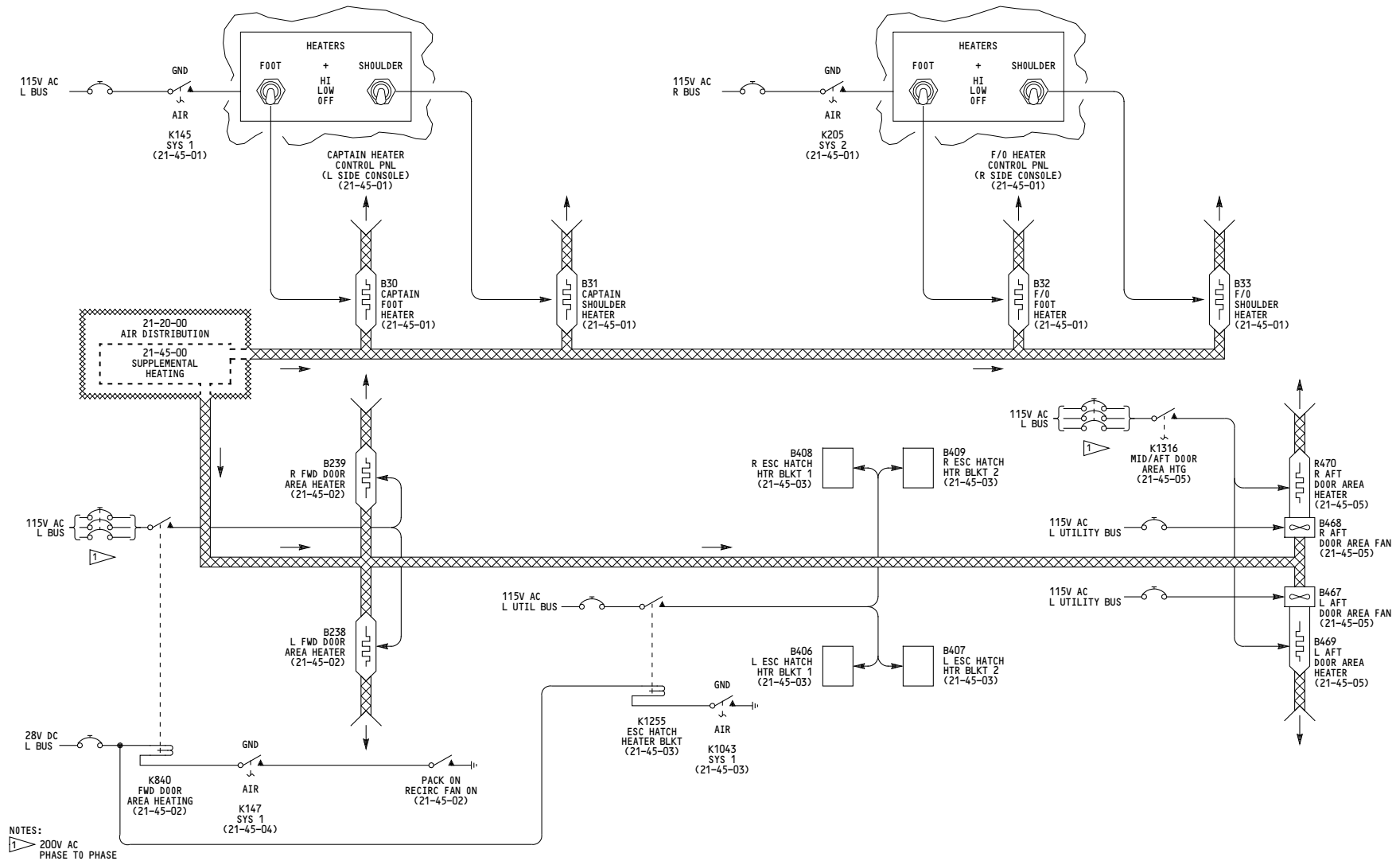
D280T232

21-45-00

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612



150-154, 275

SUPPLEMENTAL HEATING-SIMPLIFIED

D280T232

Incorporates
 21-0111 R01
 25-0113 R04

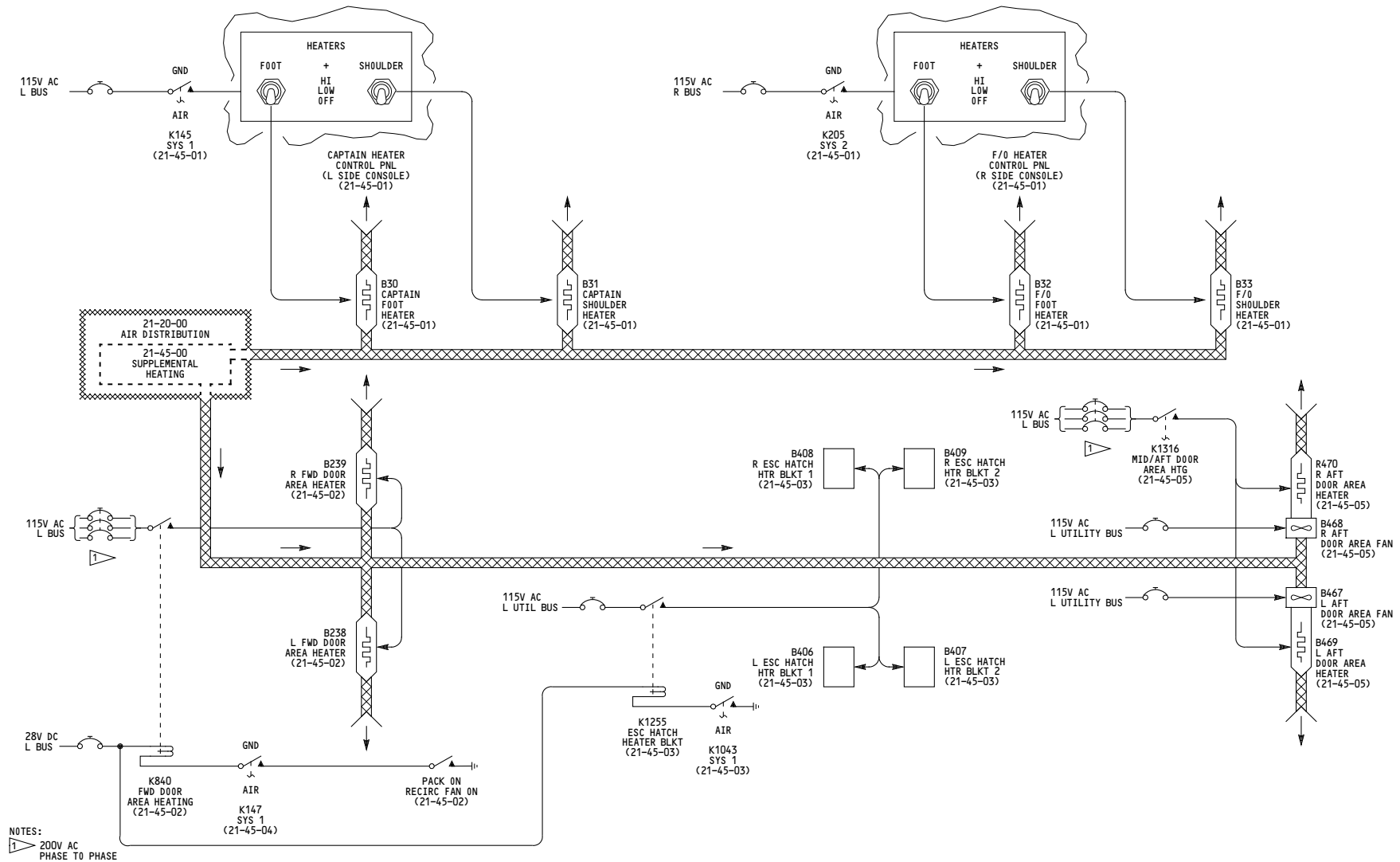
21-45-00

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278-299

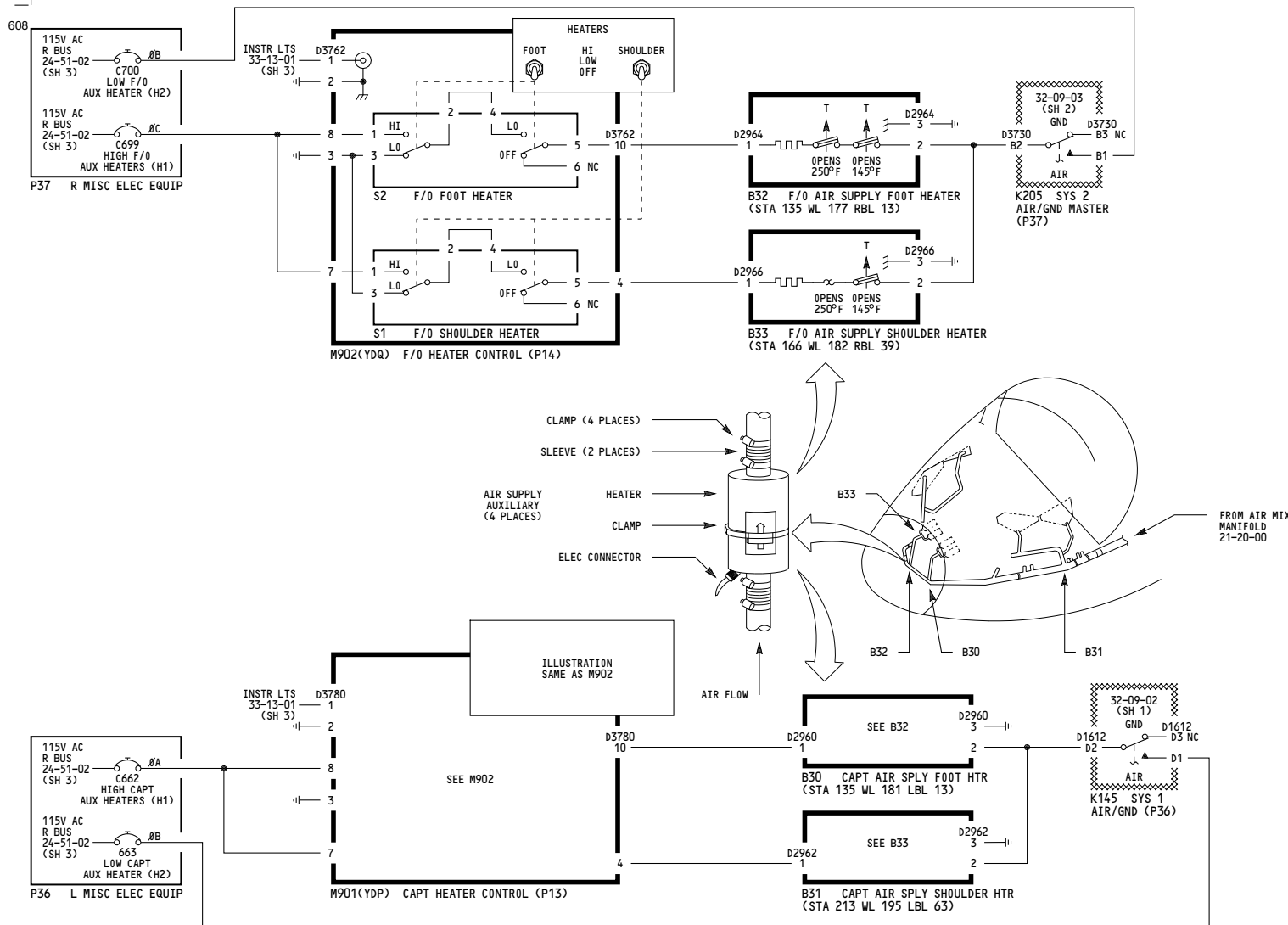
SUPPLEMENTAL HEATING-SIMPLIFIED

D280T232

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050-099

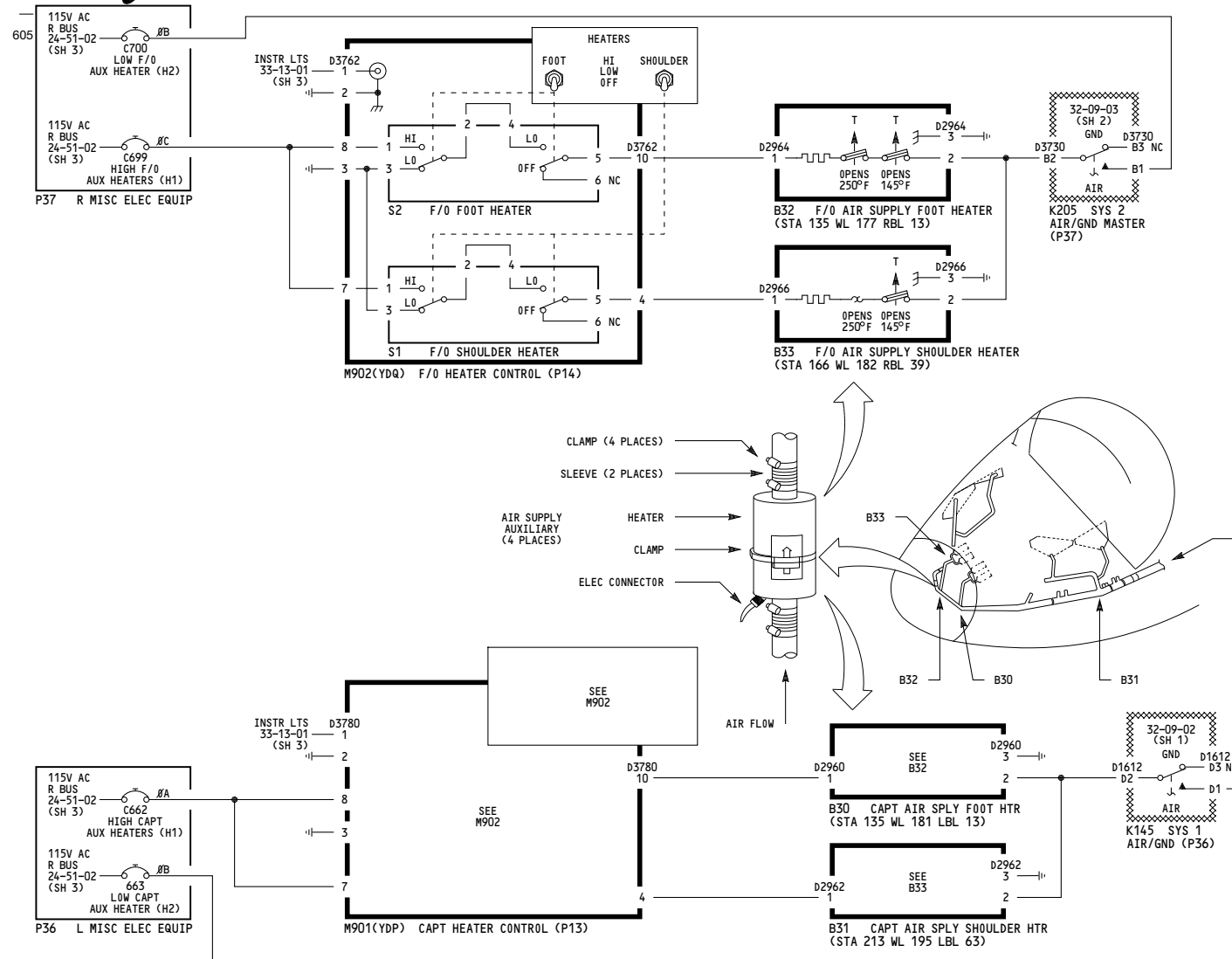
HEATING-SUPPLEMENTAL

D280T232

21-45-01

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HEATING-SUPPLEMENTAL

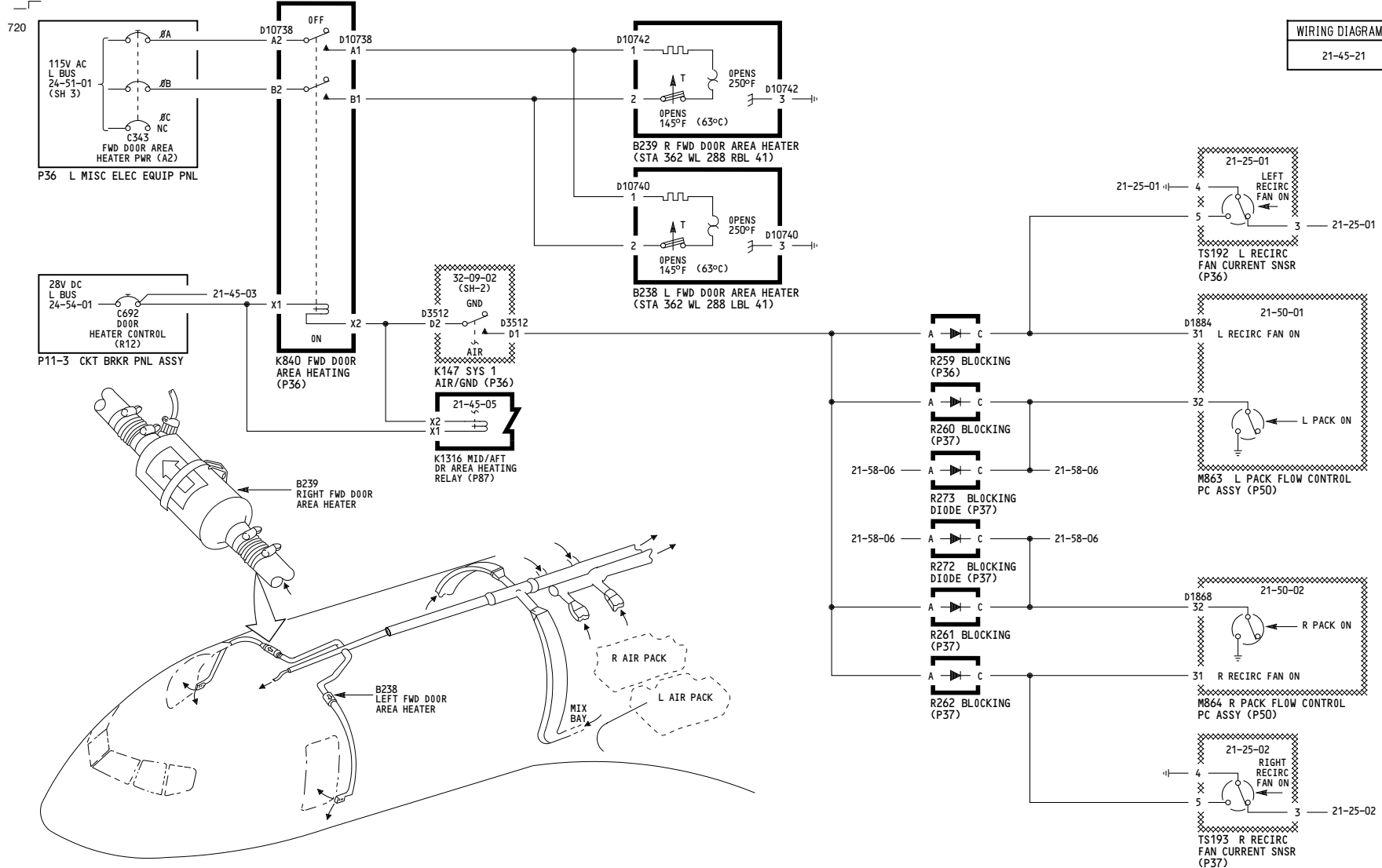
D280T232

21-45-01

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21-45-21



050-051, 155-156, 162-166

HEATING-FORWARD DOOR AREA

Incorporates
21-0111 R01

D280T232

21-45-02

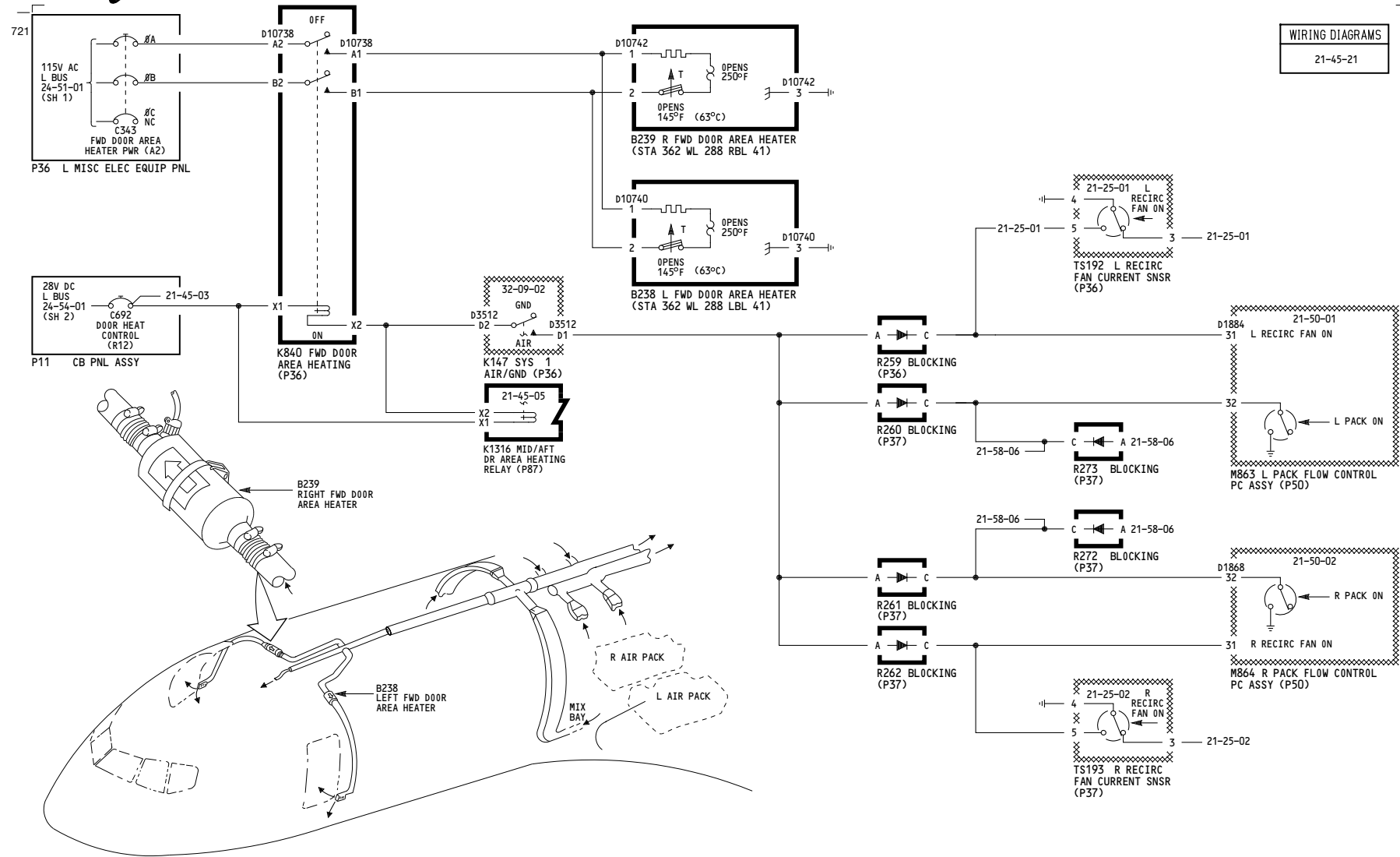
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767-200/300 SYSTEM SCHEMATIC MANUAL

WIRING DIAGRAMS
21-45-21



150-154

HEATING- FORWARD DOOR AREA

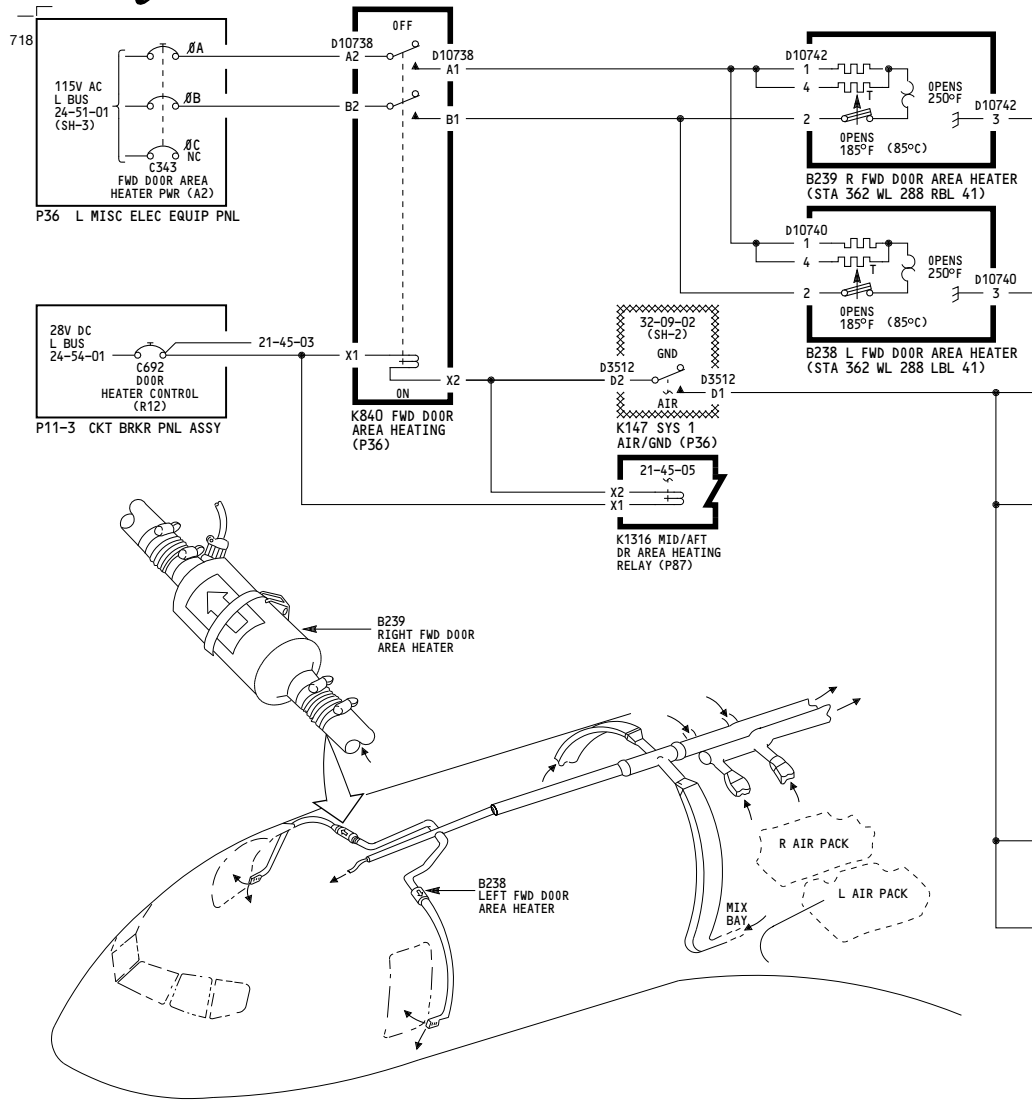
Incorporates
➤ 21-0111 R01
➤ 25-0113 R04

D280T232

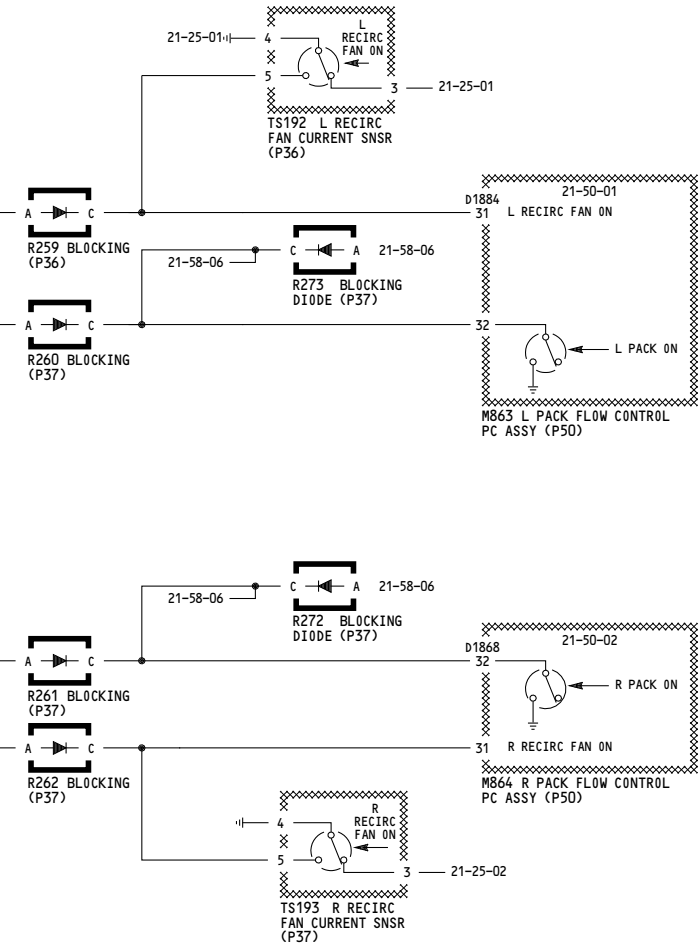
21-45-02

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WIRING DIAGRAMS
21-45-21



157, 167

**HEATING-
FORWARD DOOR AREA**

Incorporates
21-0111 R01

D280T232

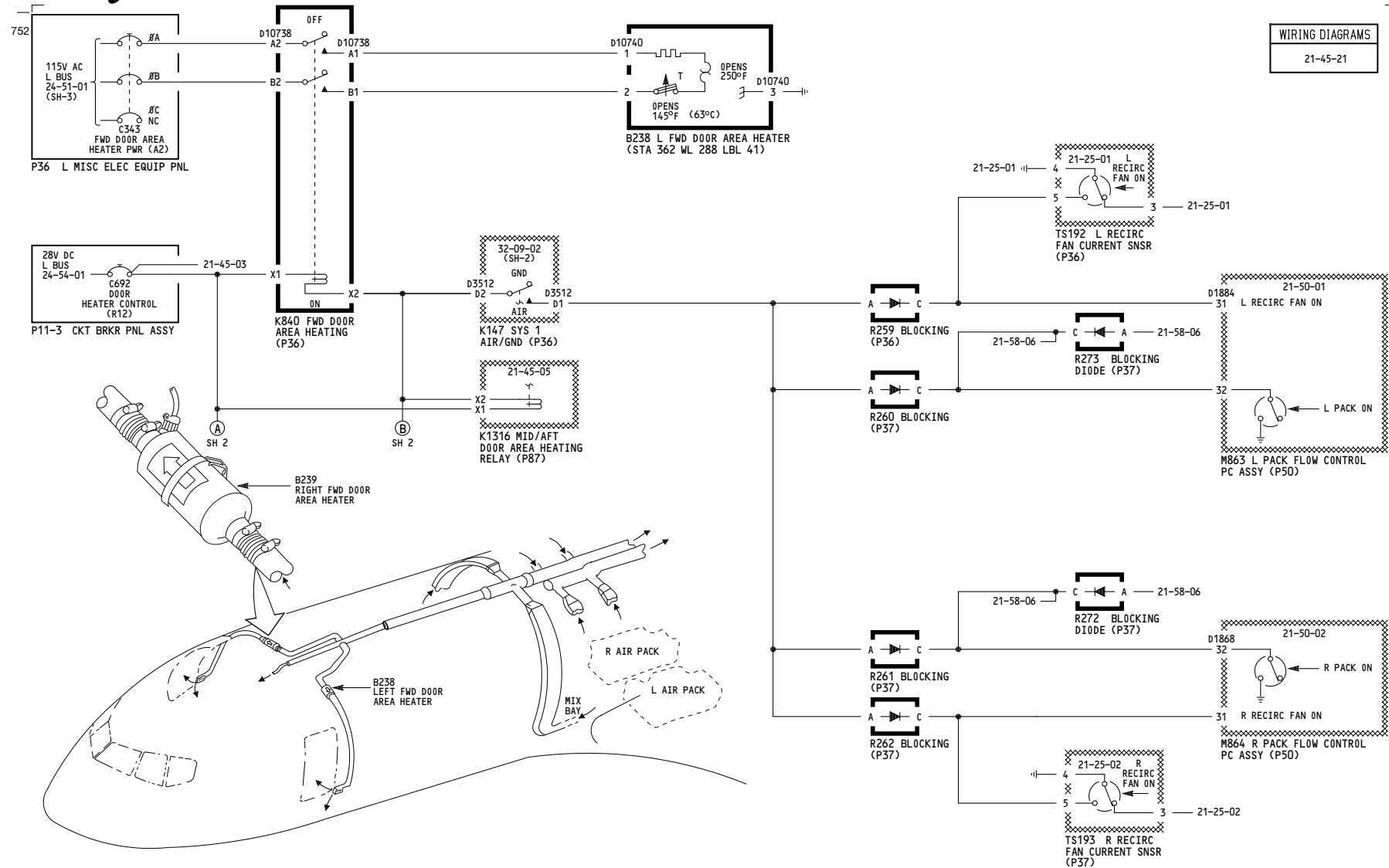
21-45-02

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767-200/300 SYSTEM SCHEMATIC MANUAL



WIRING DIAGRAMS
21-45-21

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HEATING- FORWARD DOOR AREA

D280T232

Incorporates

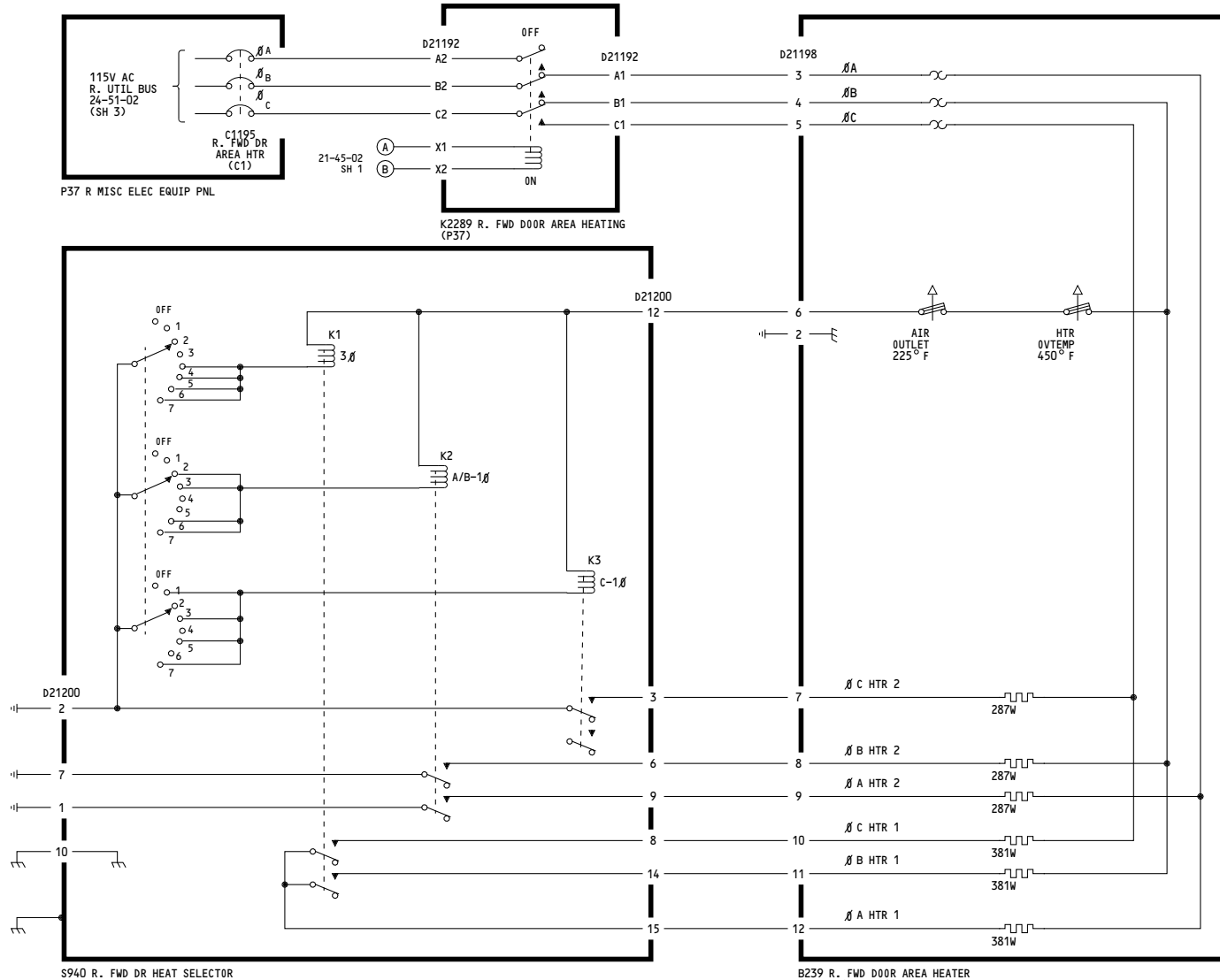
- 21-0111 R01
- 21-0139 R01
- 25-0113 R04

21-45-02

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605

WIRING DIAGRAMS
21-45-21



POSITION	POWER
OFF	0W
1	287W
2	574W
3	861W
4	1143W
5	1430W
6	1717W
7	2004W

275

**HEATING-
FORWARD DOOR AREA**

Incorporates
21-0139 R01

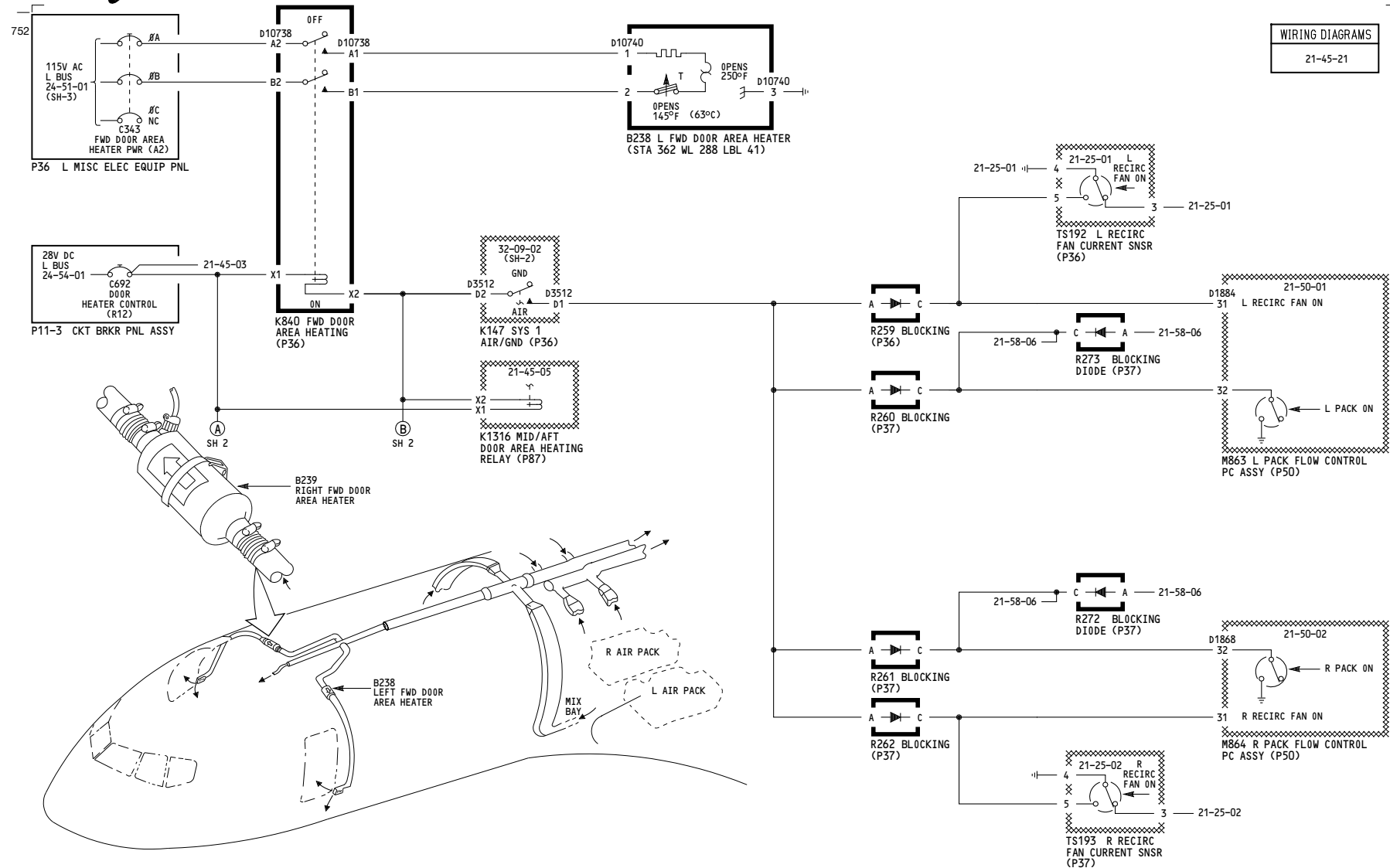
D280T232

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767-200/300 SYSTEM SCHEMATIC MANUAL



WIRING DIAGRAMS
21-45-21

276

HEATING- FORWARD DOOR AREA

D280T232

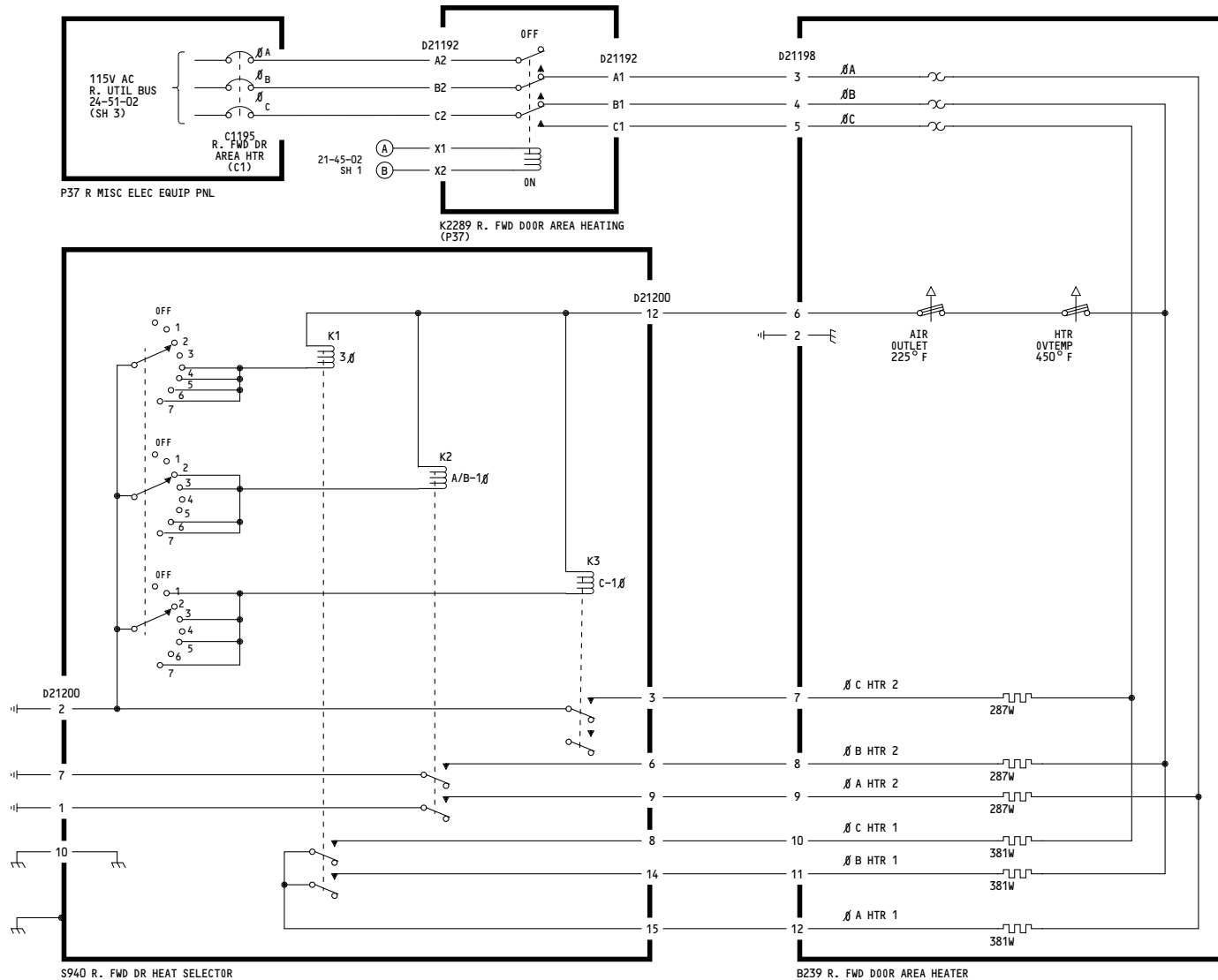
Incorporates
21-0111 R01
21-0139 R01

21-45-02

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605

WIRING DIAGRAMS
21-45-21



POSITION	POWER
OFF	0W
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2	574W
3	861W
4	1143W
5	1430W
6	1717W
7	2004W

276

**HEATING-
FORWARD DOOR AREA**

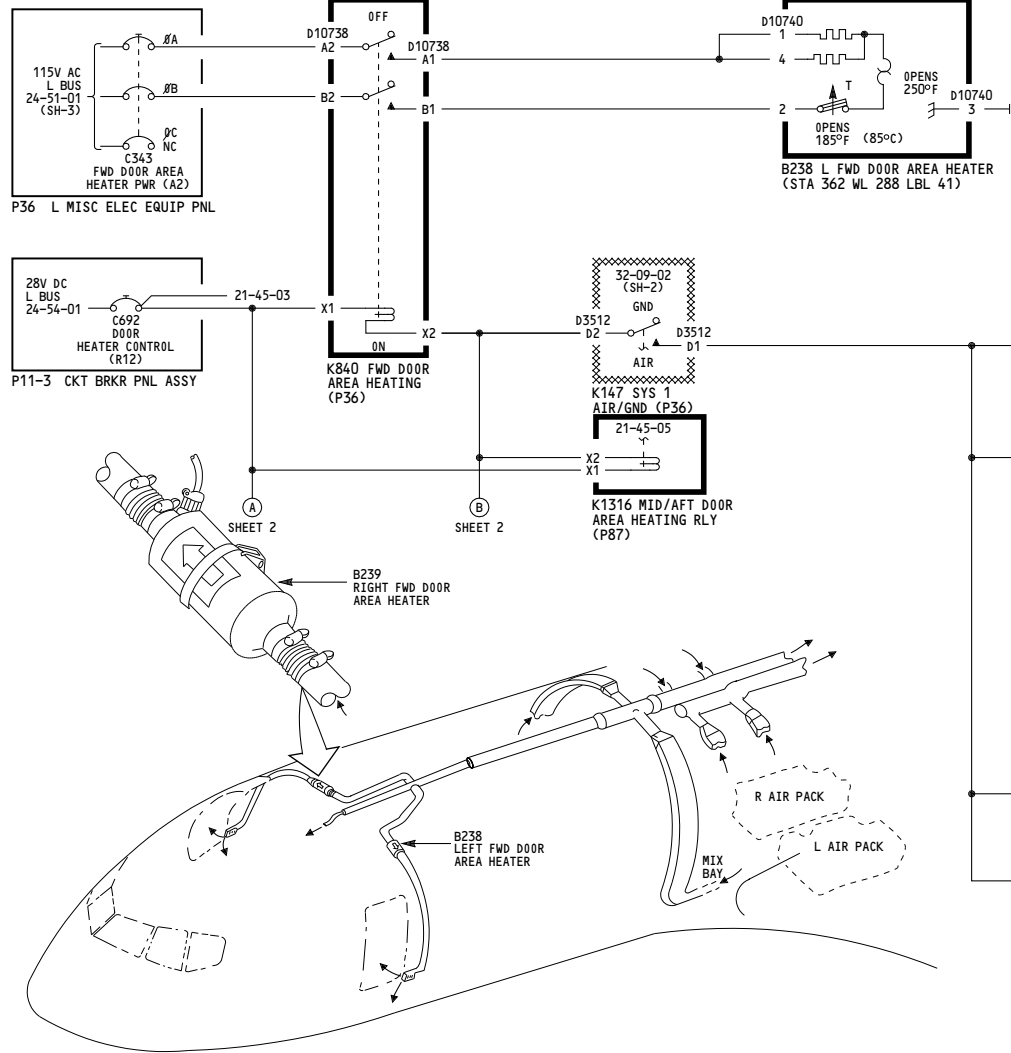
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21-0139 R01

D280T232

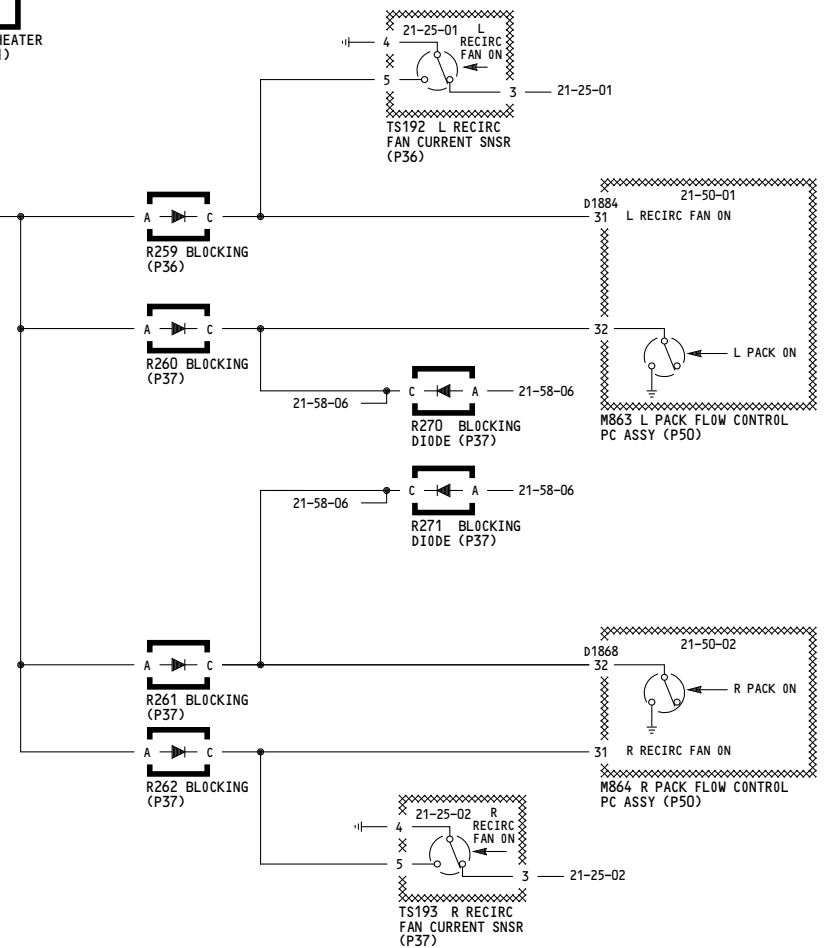
21-45-02

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WIRING DIAGRAMS
21-45-21



277

**HEATING-
FORWARD DOOR AREA**

D280T232

Incorporates

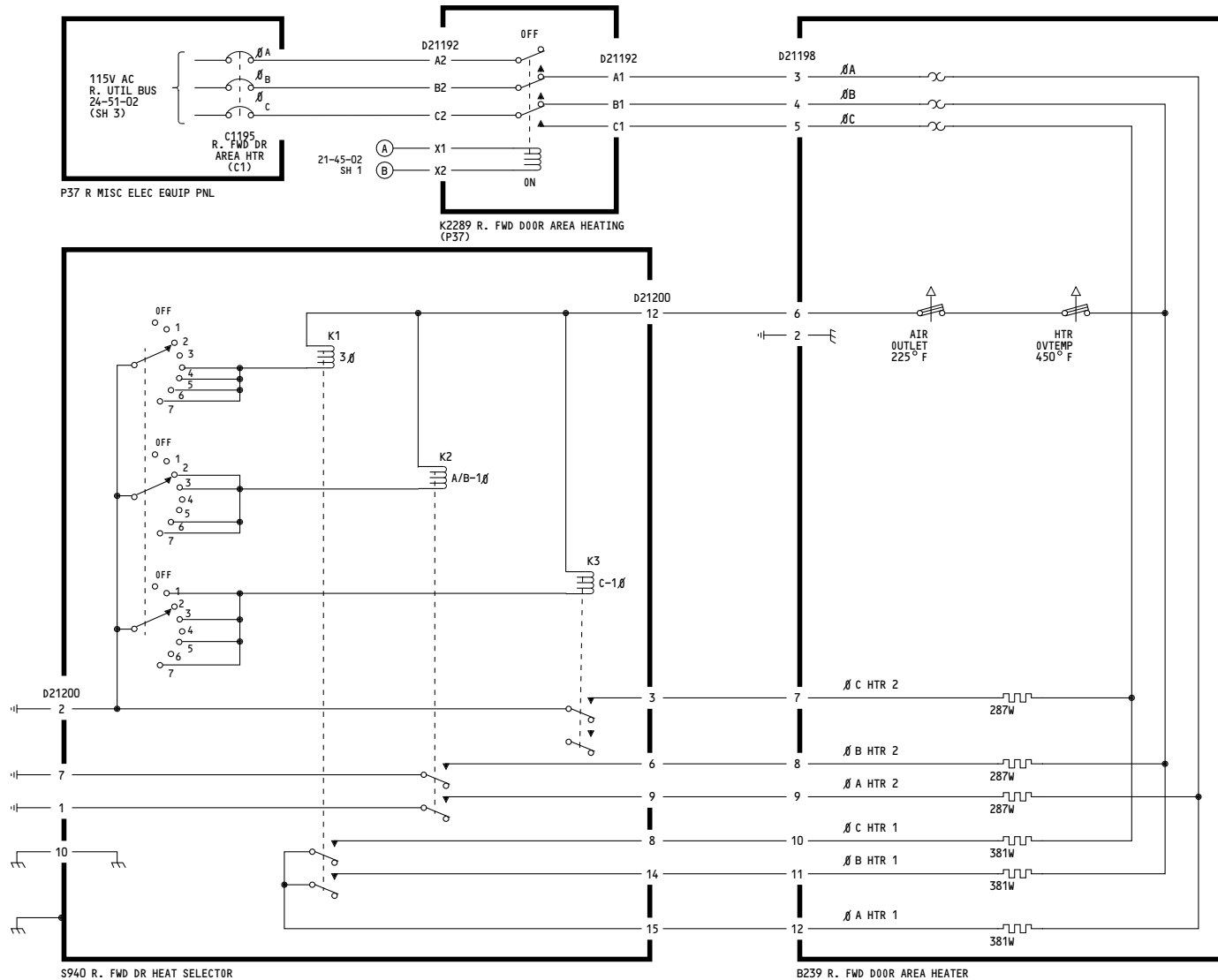
➤ 21-0111 R01

➤ 21-0139 R01

21-45-02

-D
605

WIRING DIAGRAMS
21-45-21



277

**HEATING-
FORWARD DOOR AREA**

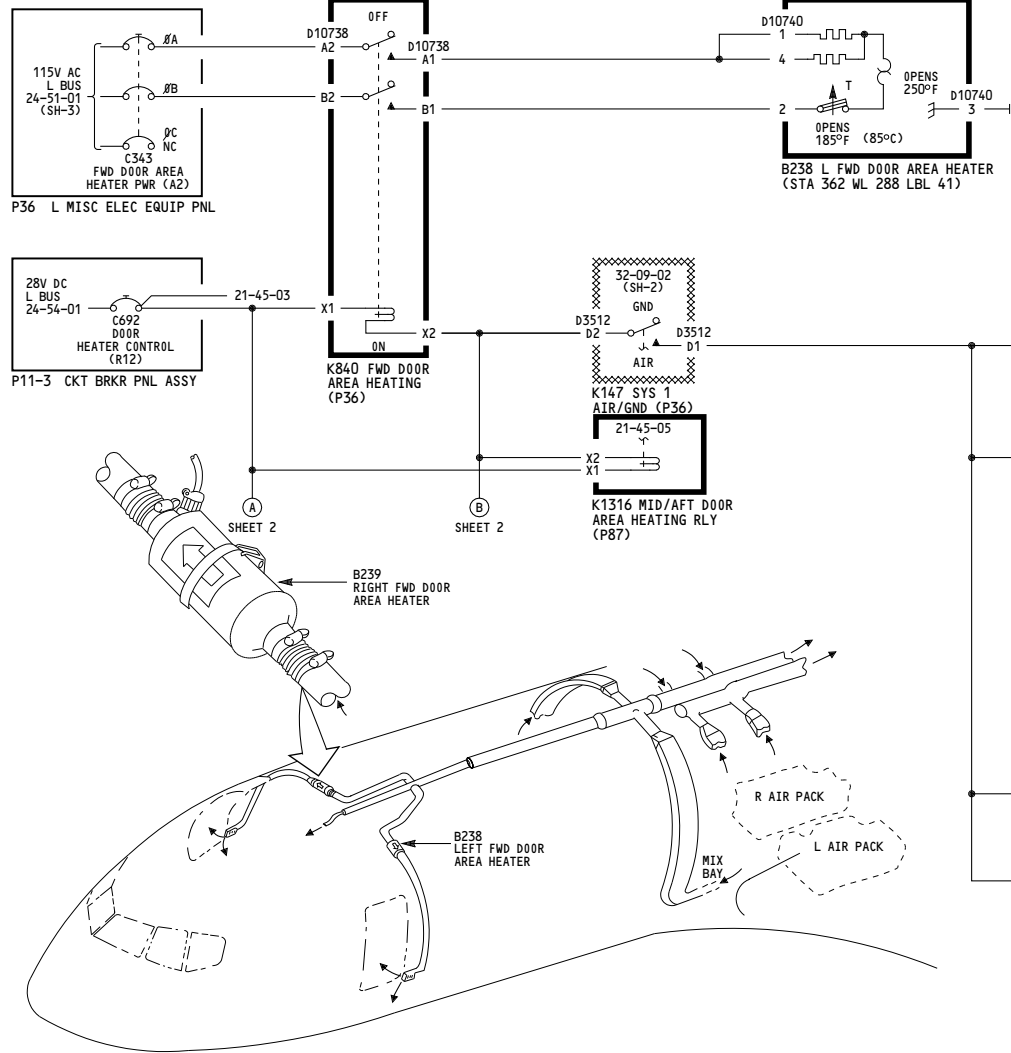
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21-0139 R01

D280T232

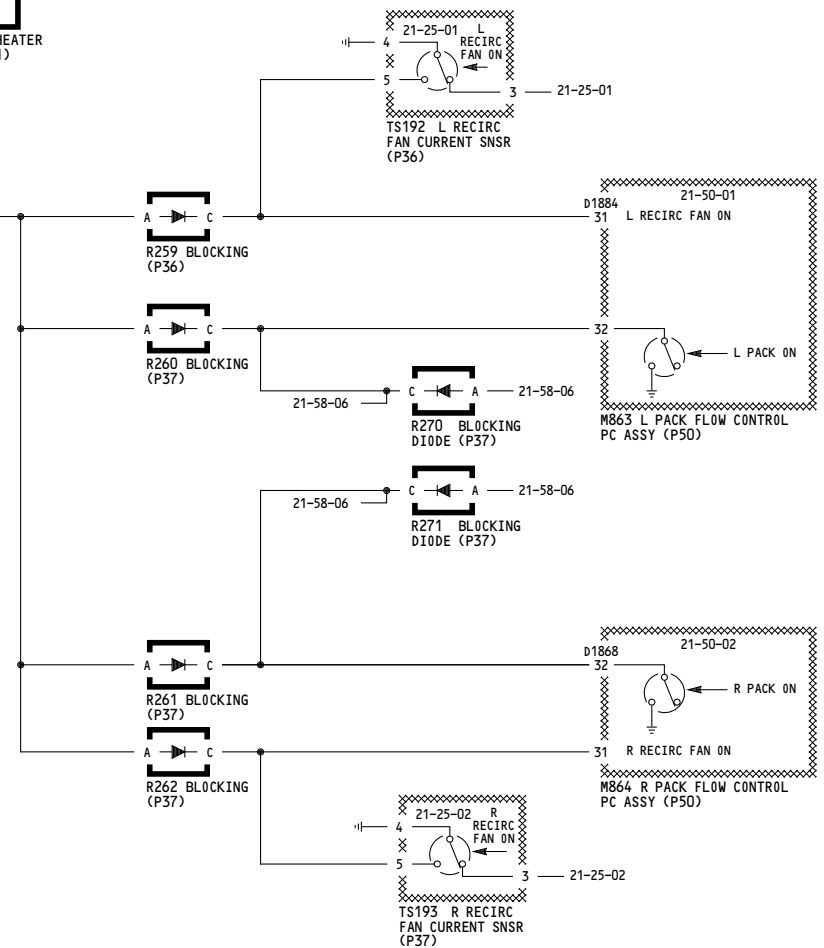
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Sheet 2
Jun 28/2006

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WIRING DIAGRAMS
21-45-21



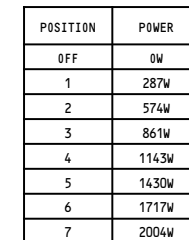
278-280	<p>HEATING- FORWARD DOOR AREA</p> <p>D280T232</p>
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Incorporates
21-0139 R01

21-45-02

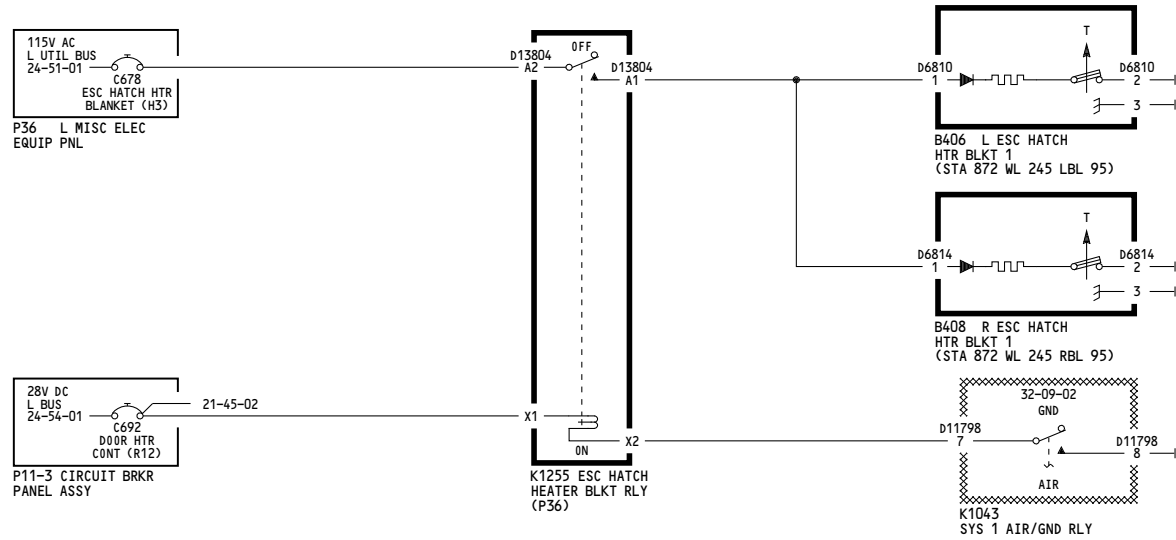


WIRING DIAGRAMS
21-45-21



21-45-02

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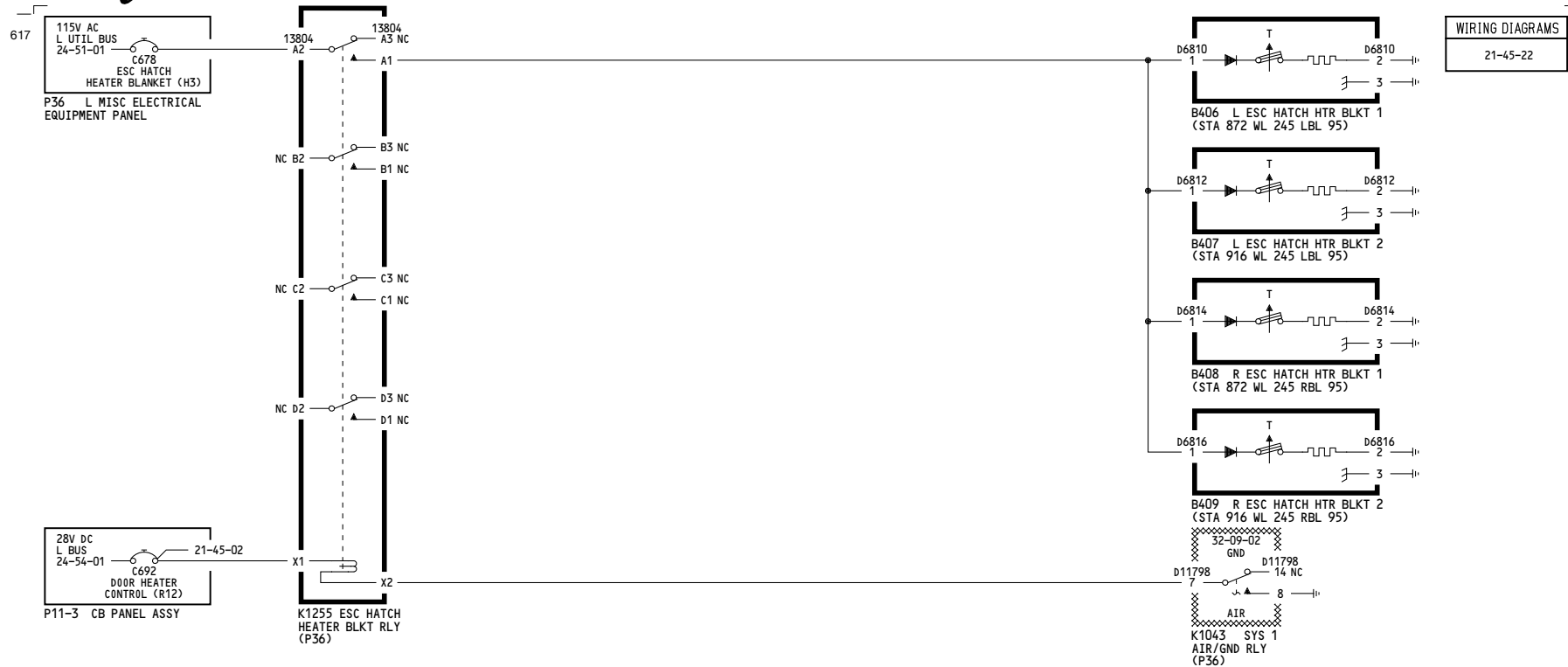
**HEATING-
OVERWING ESCAPE HATCHES**

D280T232

21-45-03

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150-154, 275

**HEATING-
OVERWING ESCAPE HATCHES**

Incorporates
25-0113 R04

D280T232

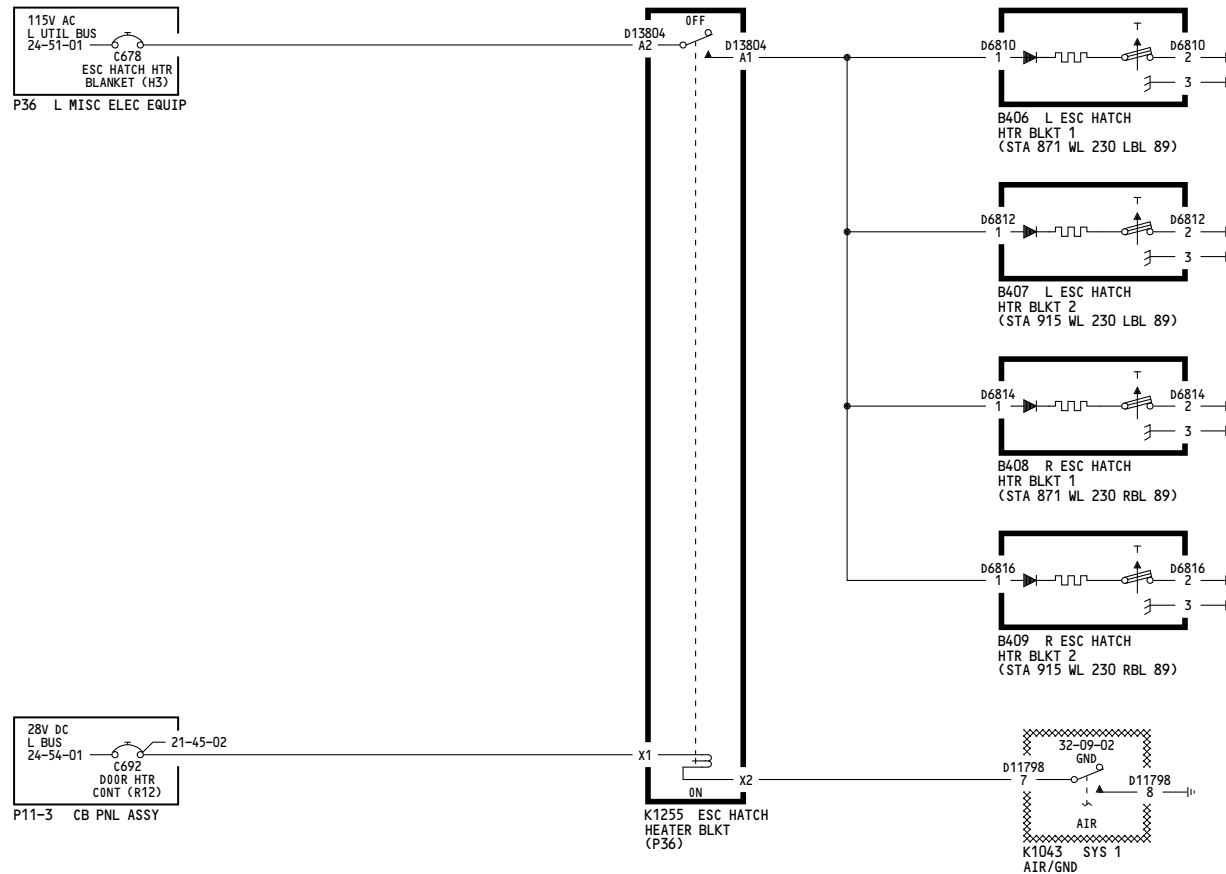
21-45-03

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WIRING DIAGRAMS
21-45-22



155-199, 276-299

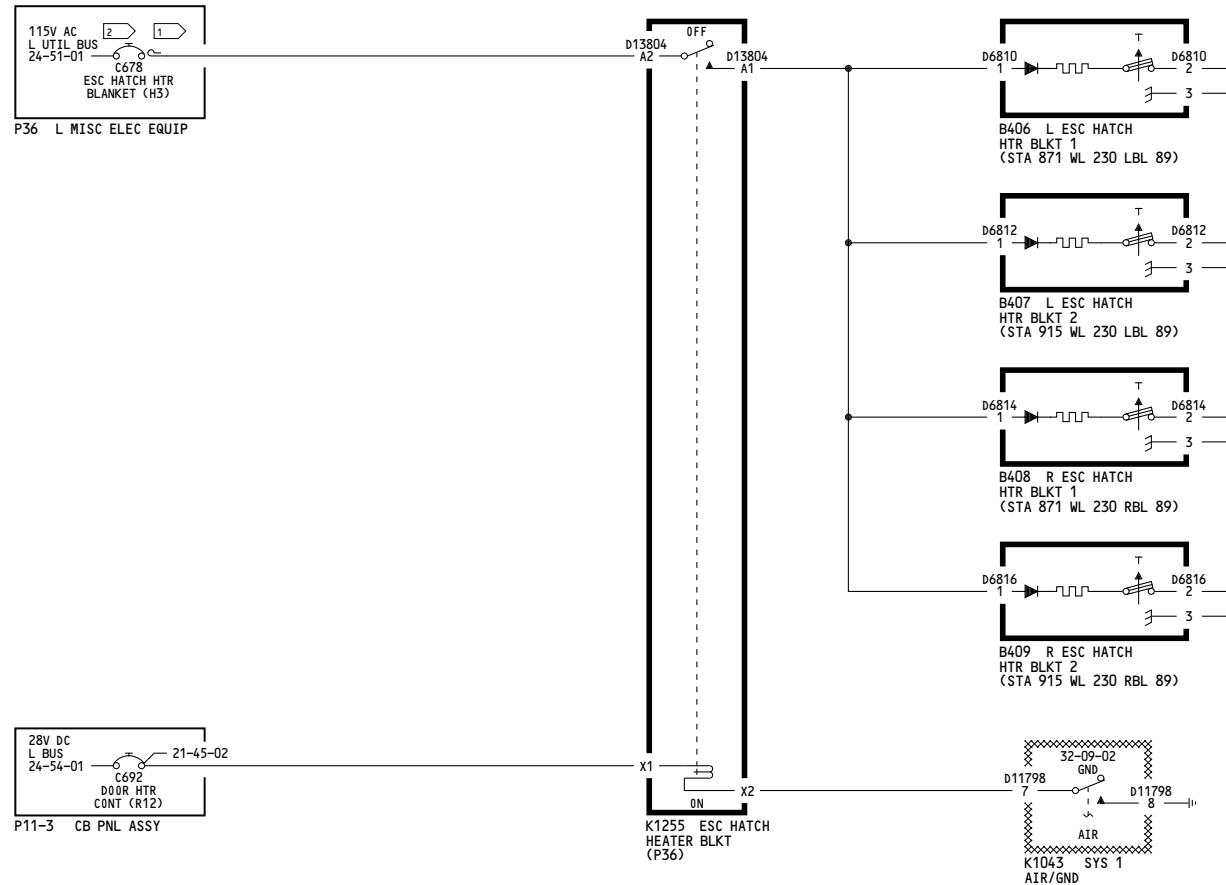
HEATING- OVERWING ESCAPE HATCHES

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NOTES:

- 1 CAP & STOW NEAR C678
- 2 COLOR AND LABEL "INOP"

280

**HEATING-
OVERWING ESCAPE HATCHES**

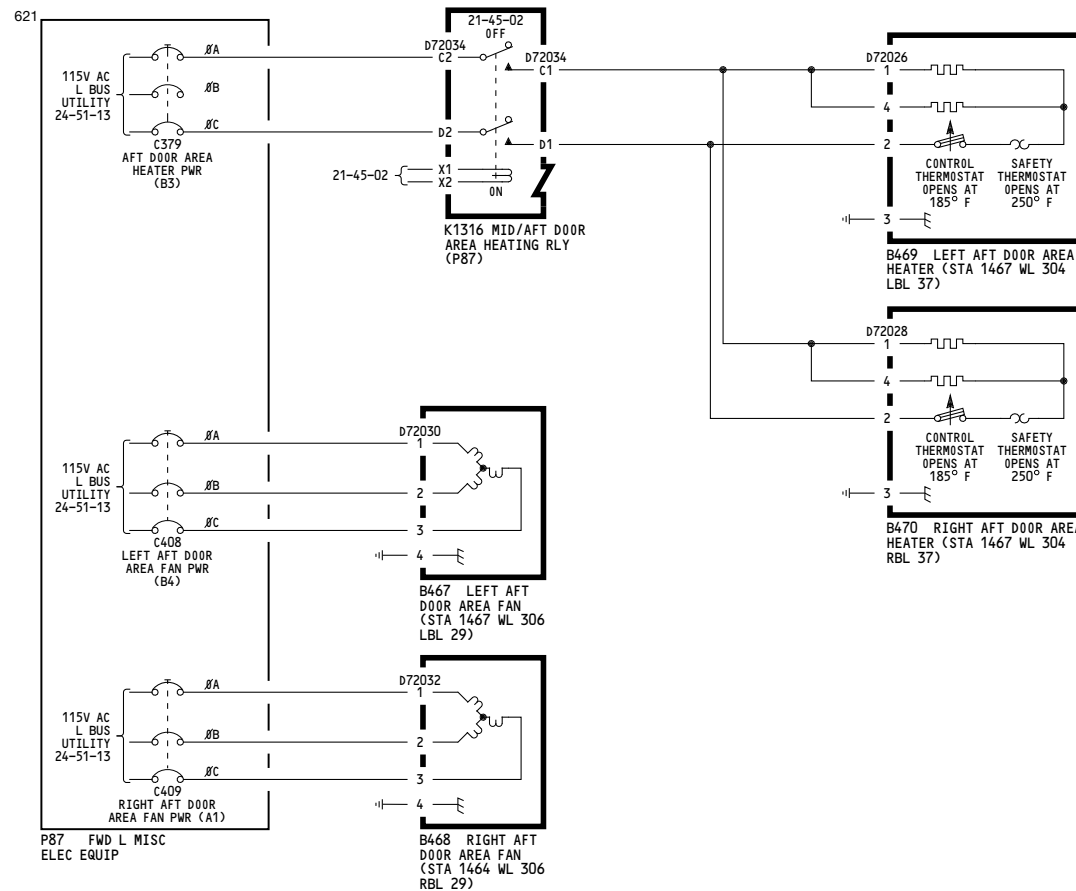
Incorporates
25A0285 R03

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050-166, 275-277

**SUPPLEMENTAL HEATING-
DOOR AREA
AFT**

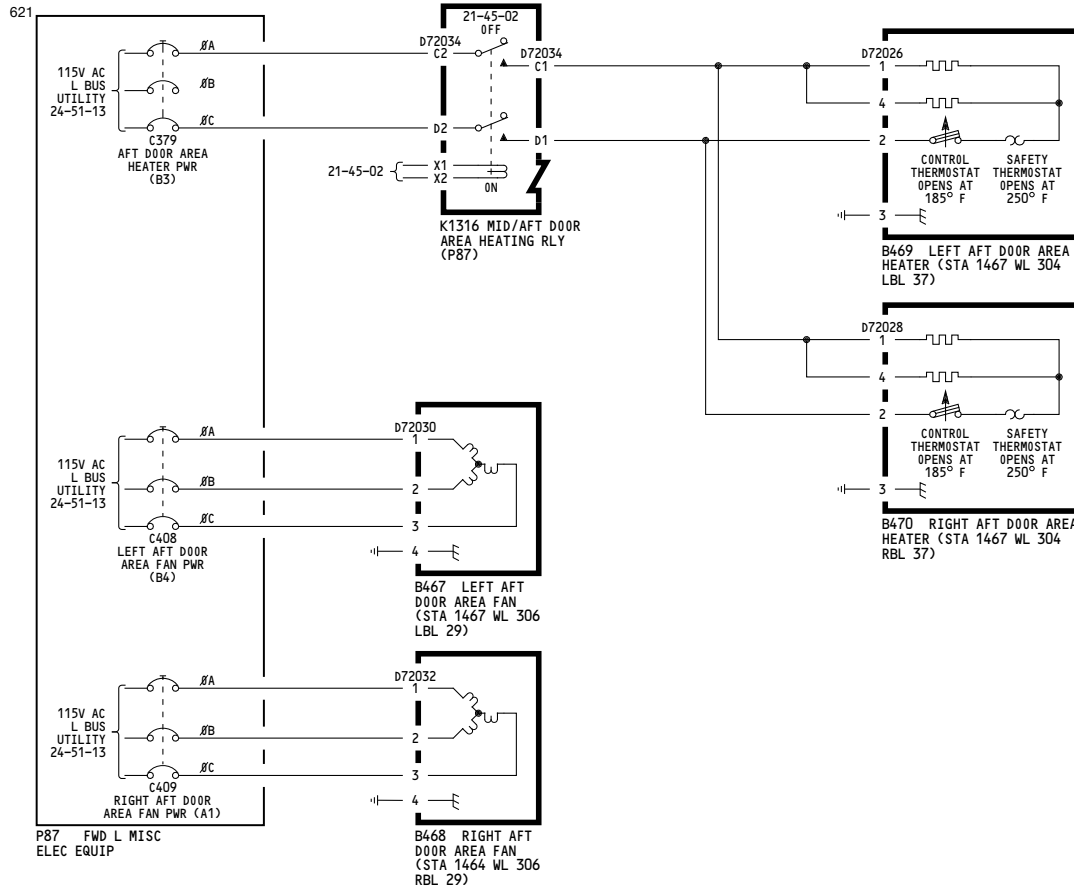
Incorporates
▶ 21-0111 R01

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167-199, 278-299

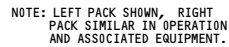
**SUPPLEMENTAL HEATING-
DOOR AREA
AFT**


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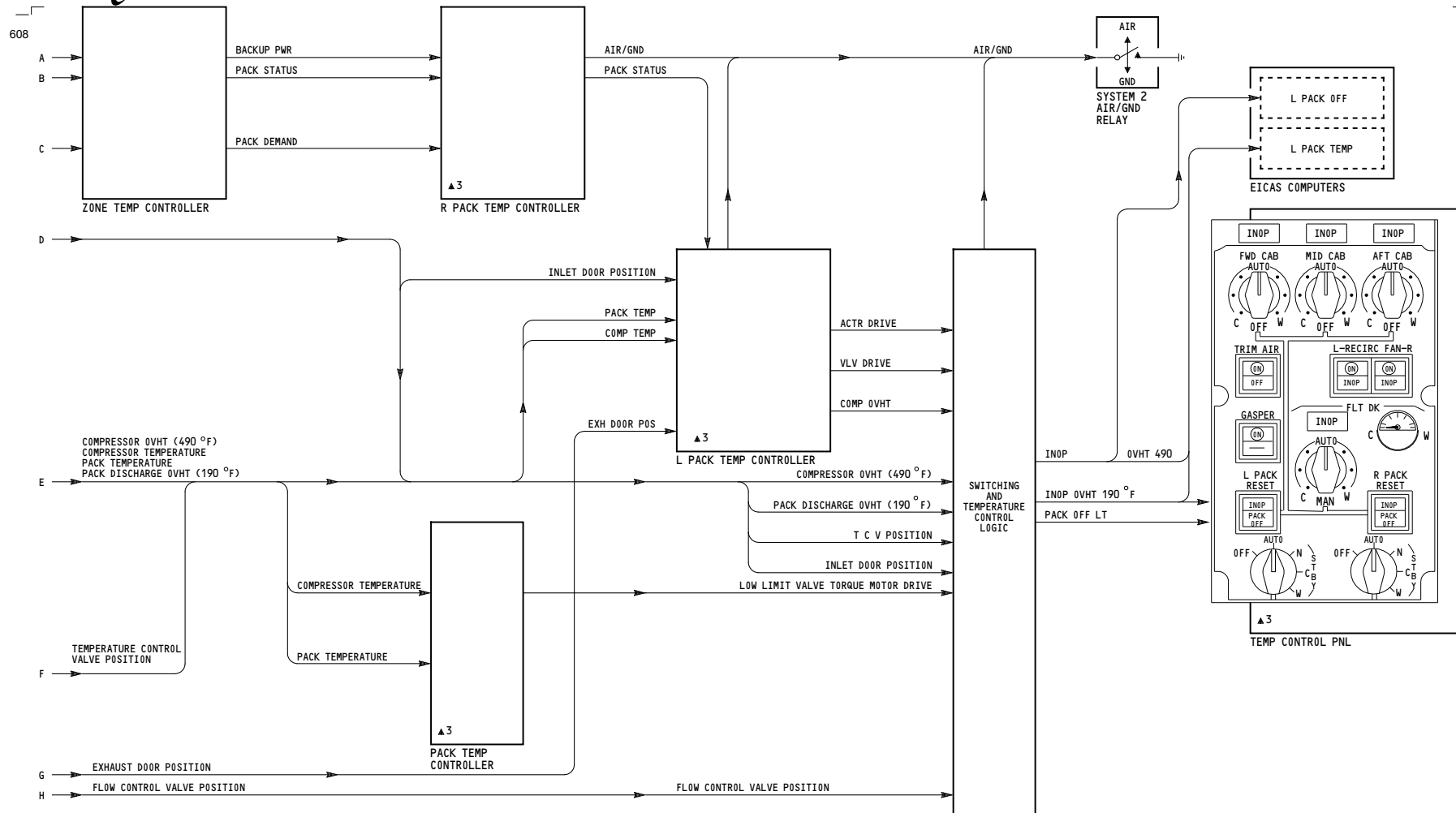
 WATER
 AIR CONDITIONING

050-099, 150-199, 275-278

COOLING PACKS- SIMPLIFIED

D280T232

21-50-00



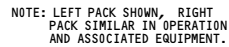
050-099, 150-199, 275-278


COOLING PACKS- SIMPLIFIED

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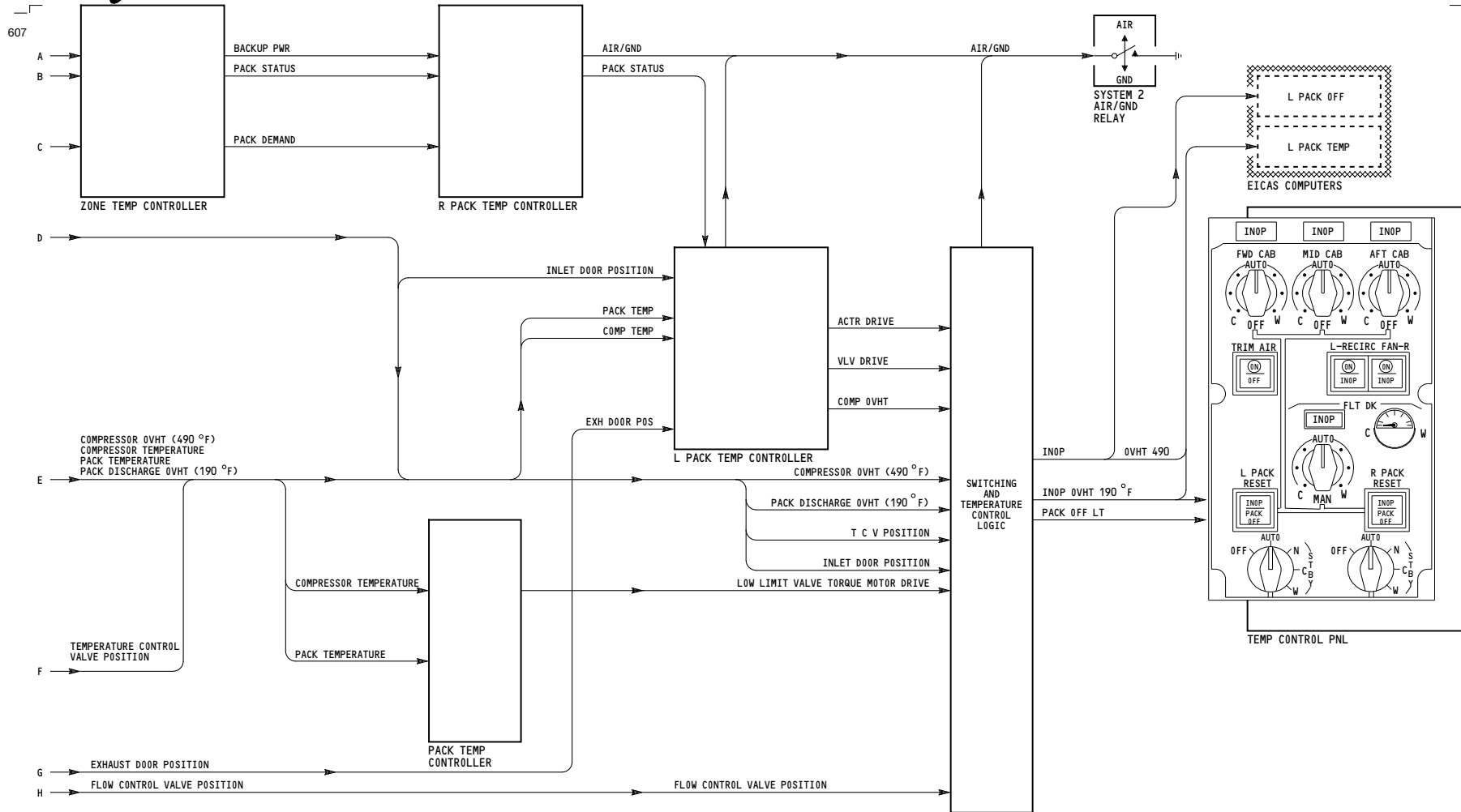


280-299

COOLING PACKS- SIMPLIFIED

D280T232

21-50-00



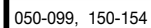
280-299

COOLING PACKS- SIMPLIFIED

D280T232

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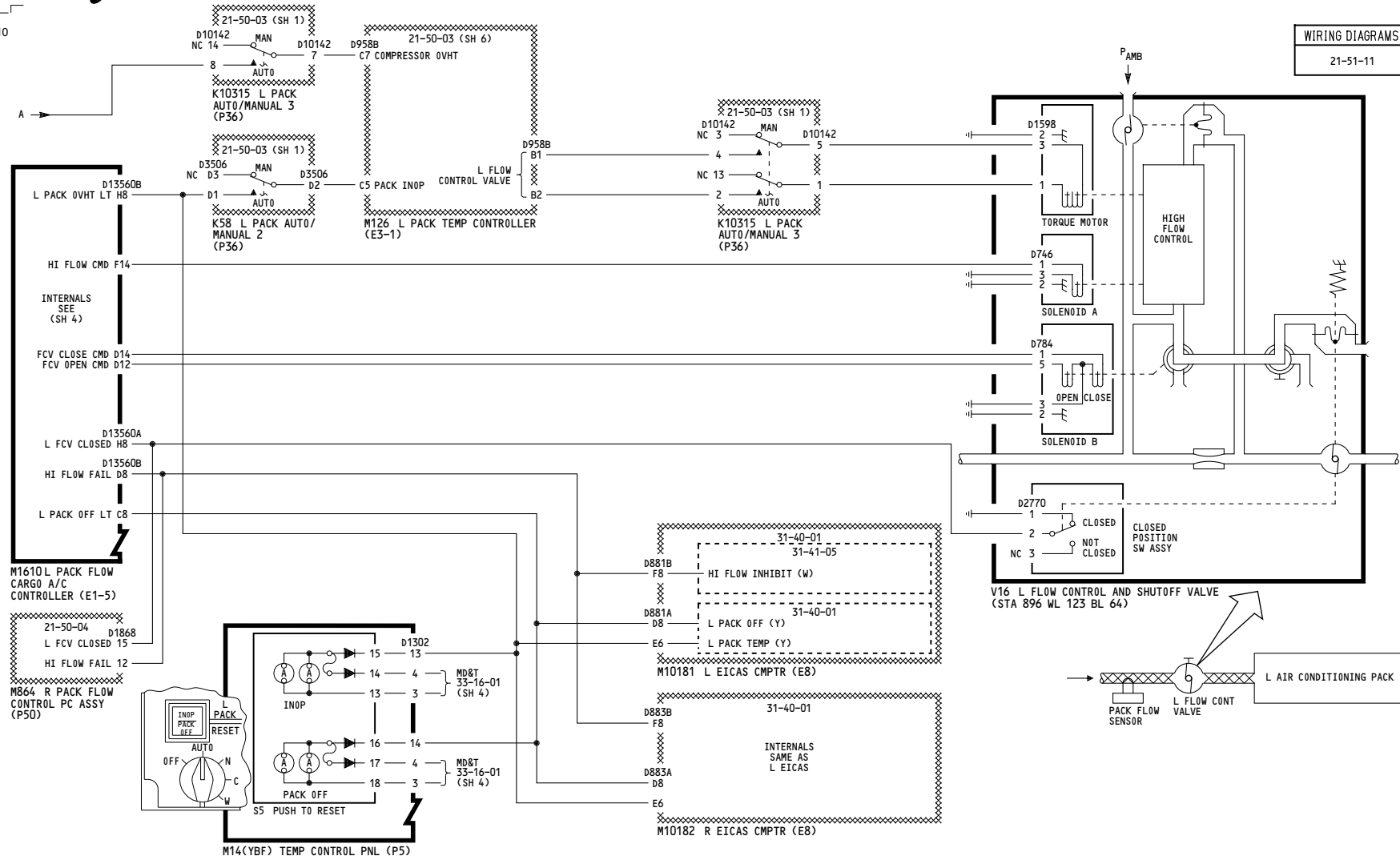


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21-51-11



050-099, 150-154

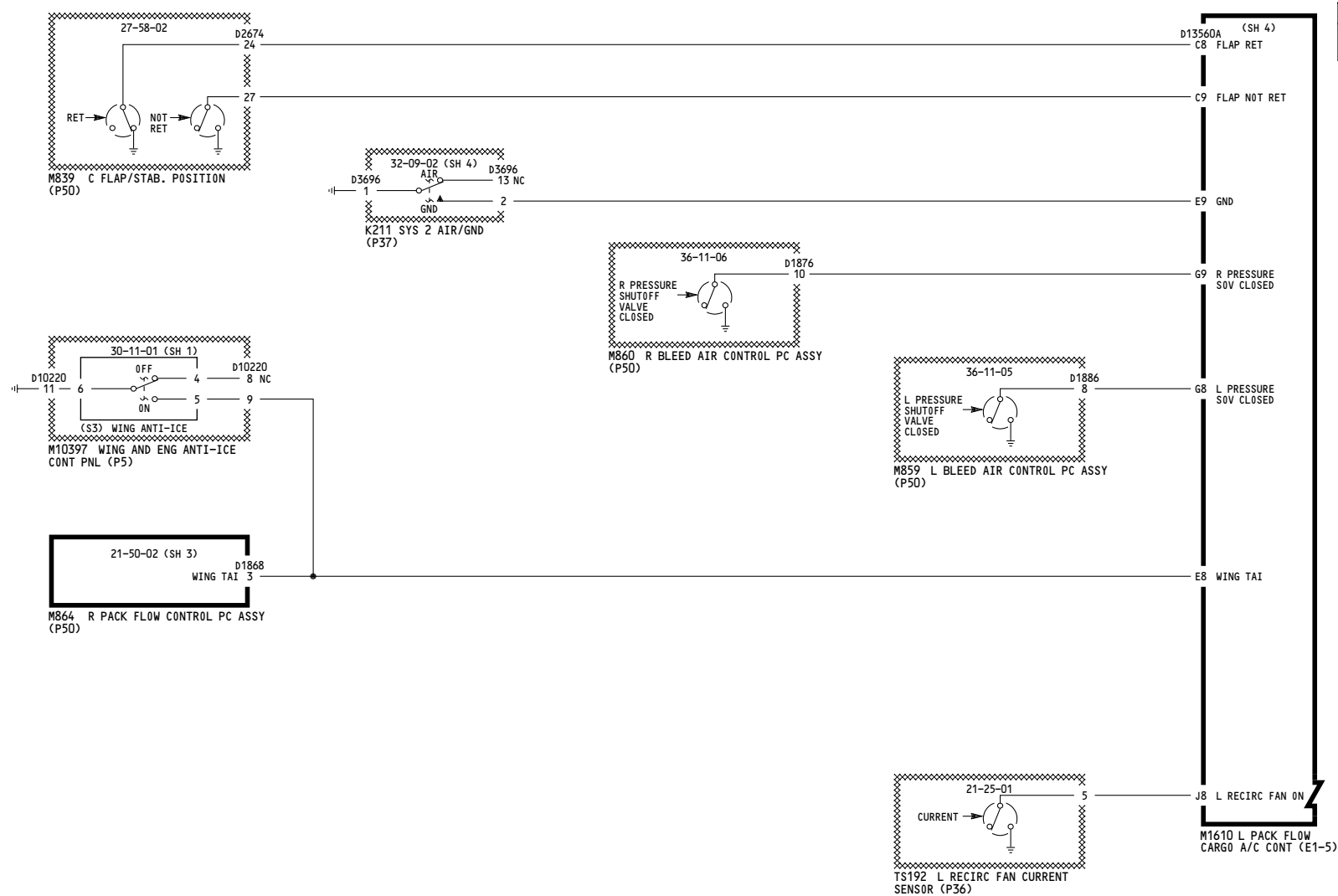
**PACK FLOW CONTROL-
LEFT**

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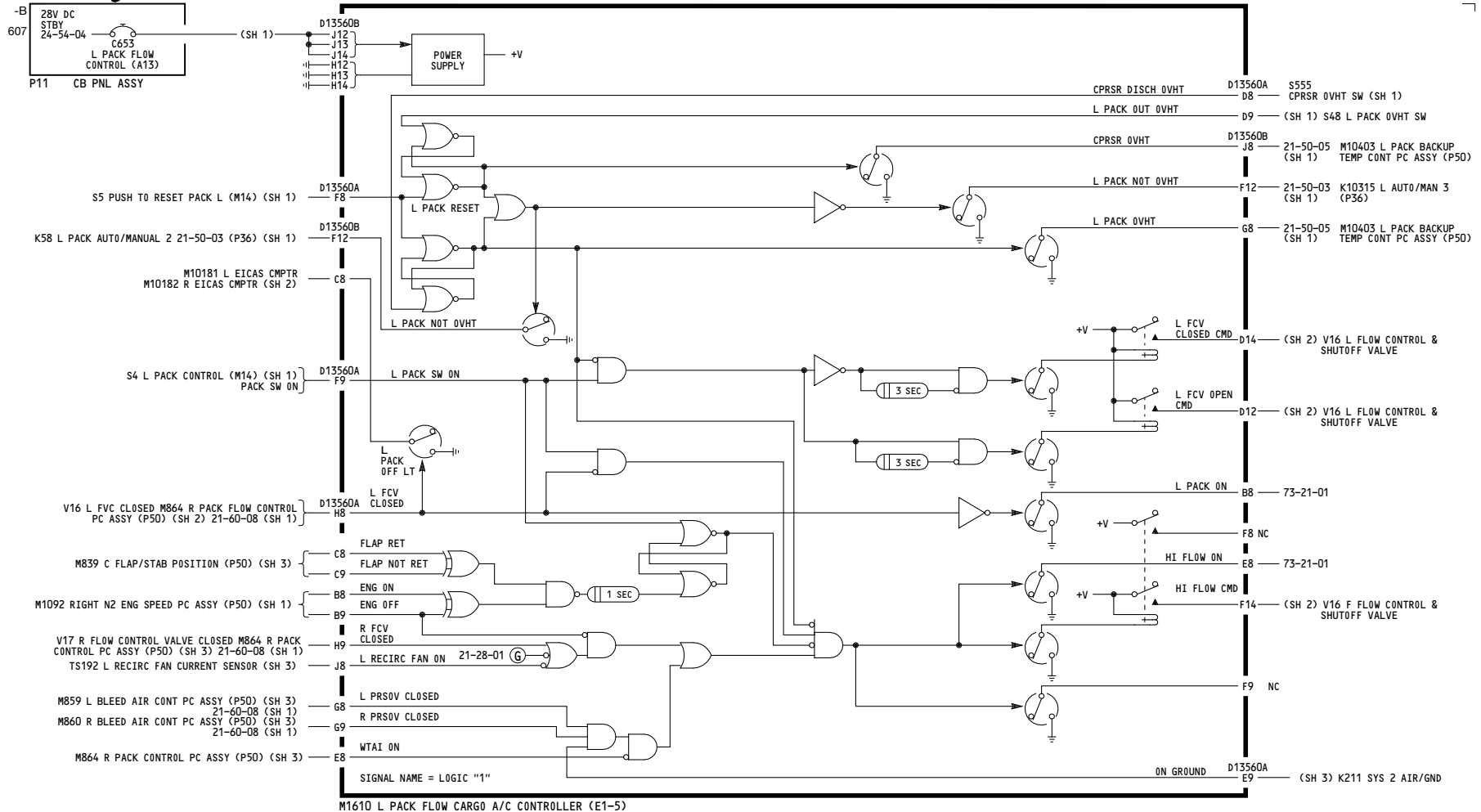
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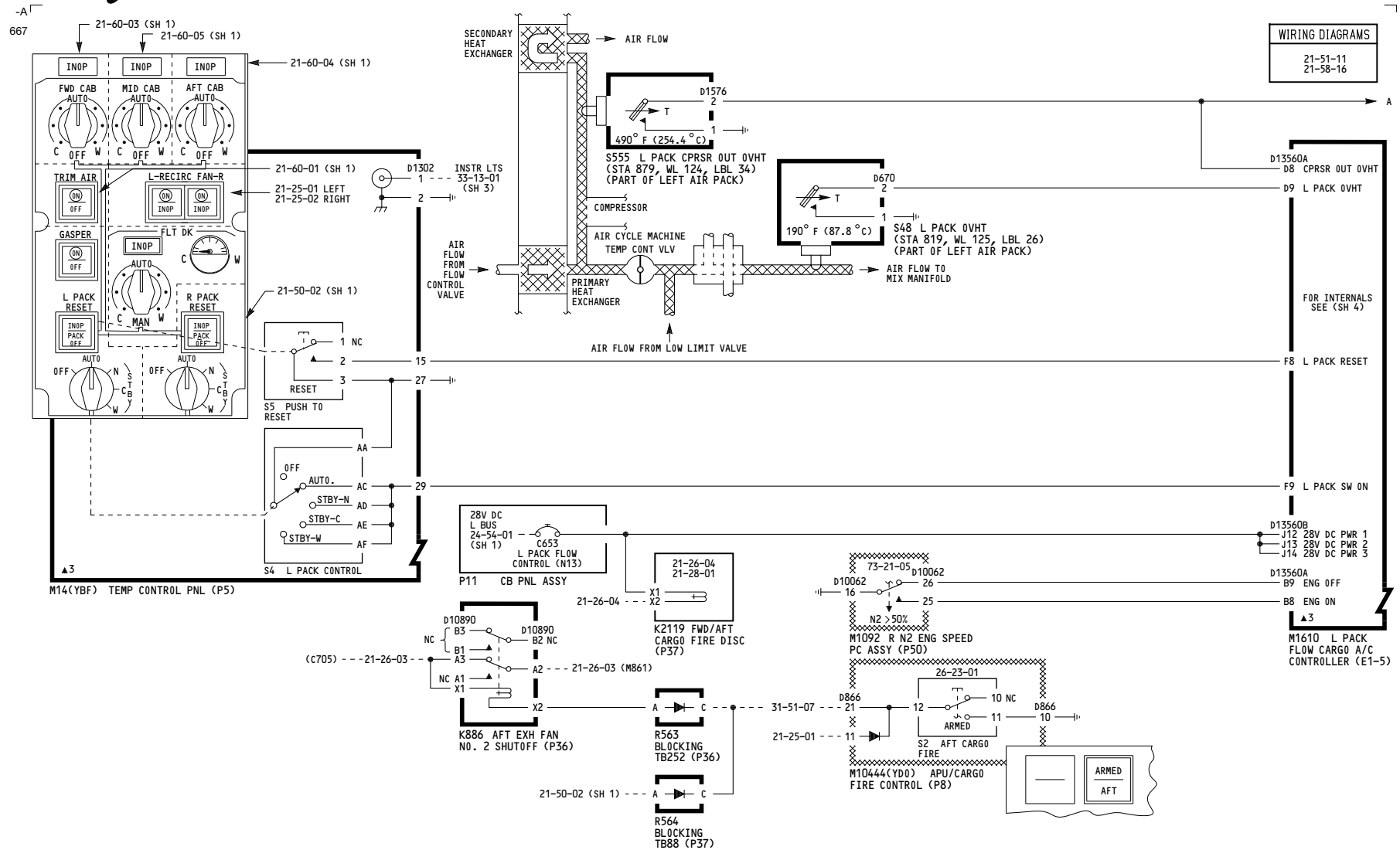
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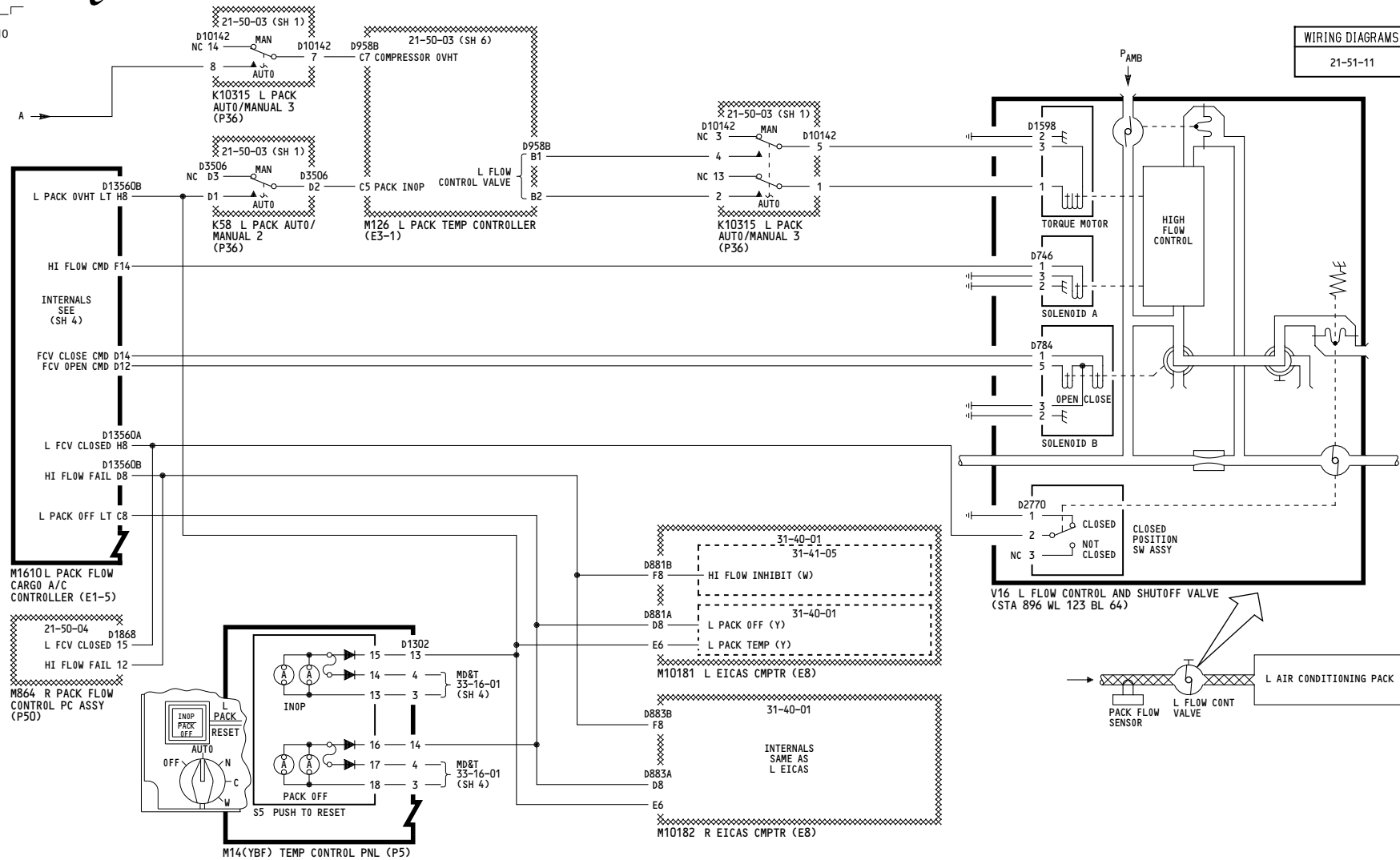


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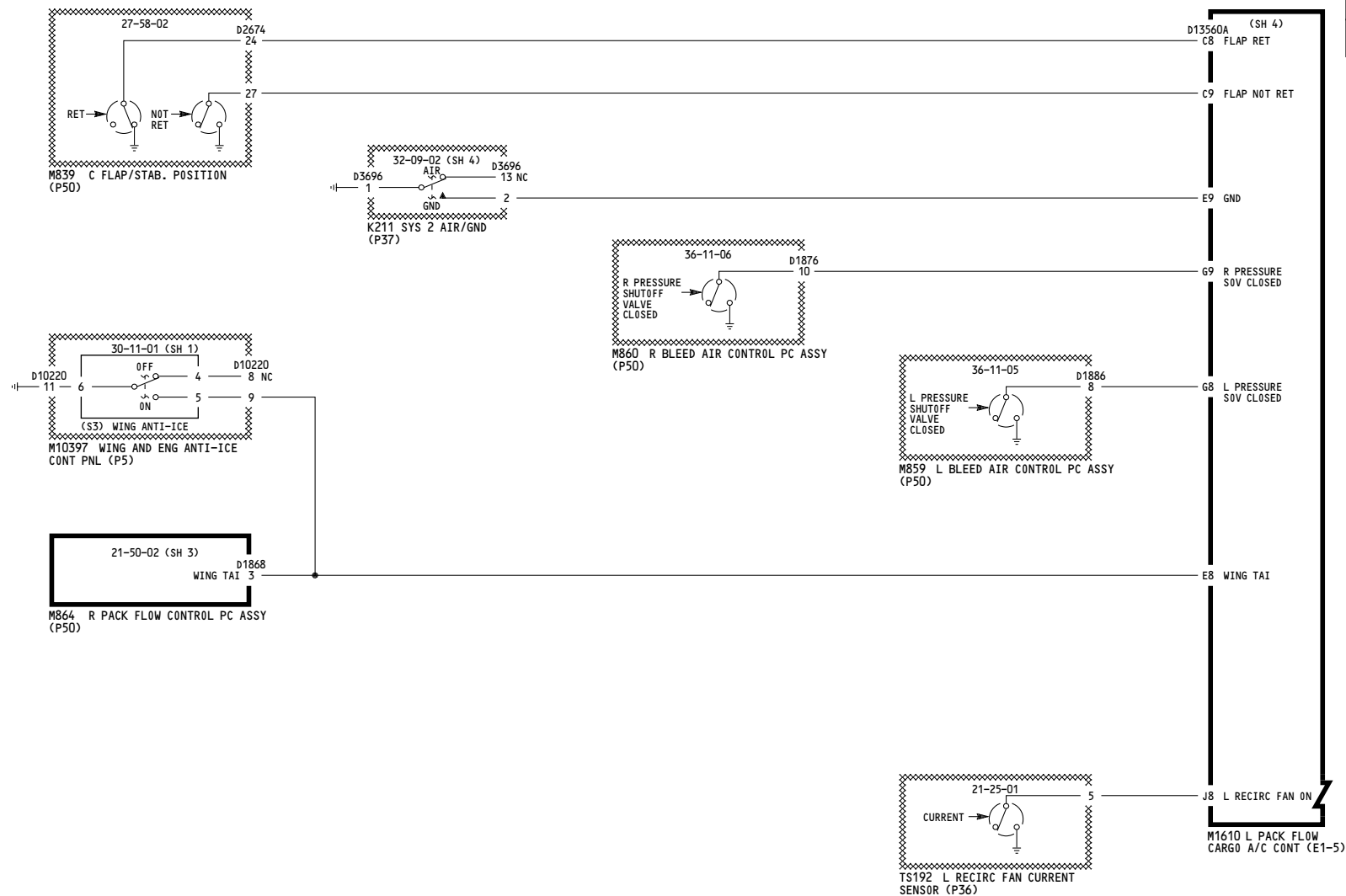
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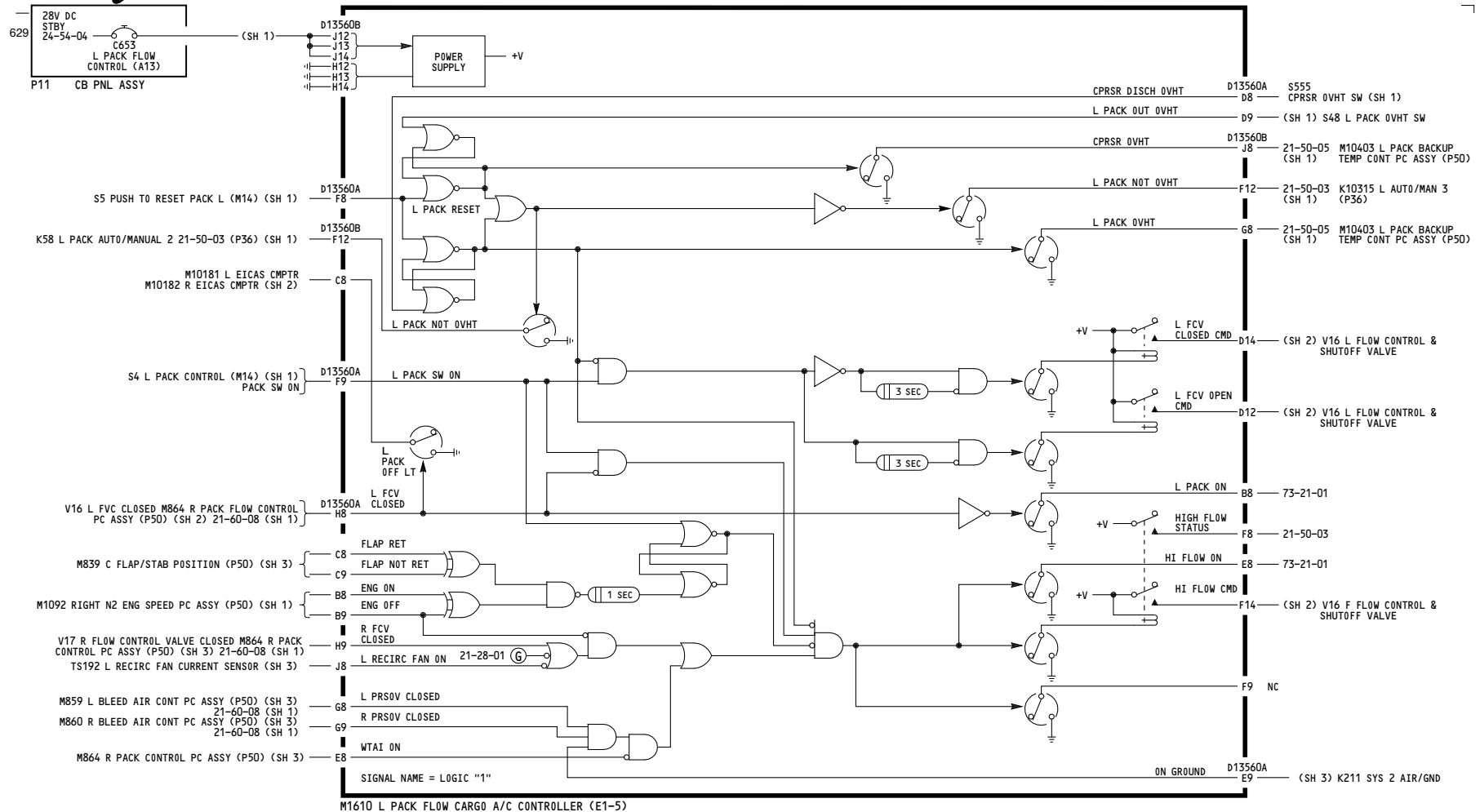
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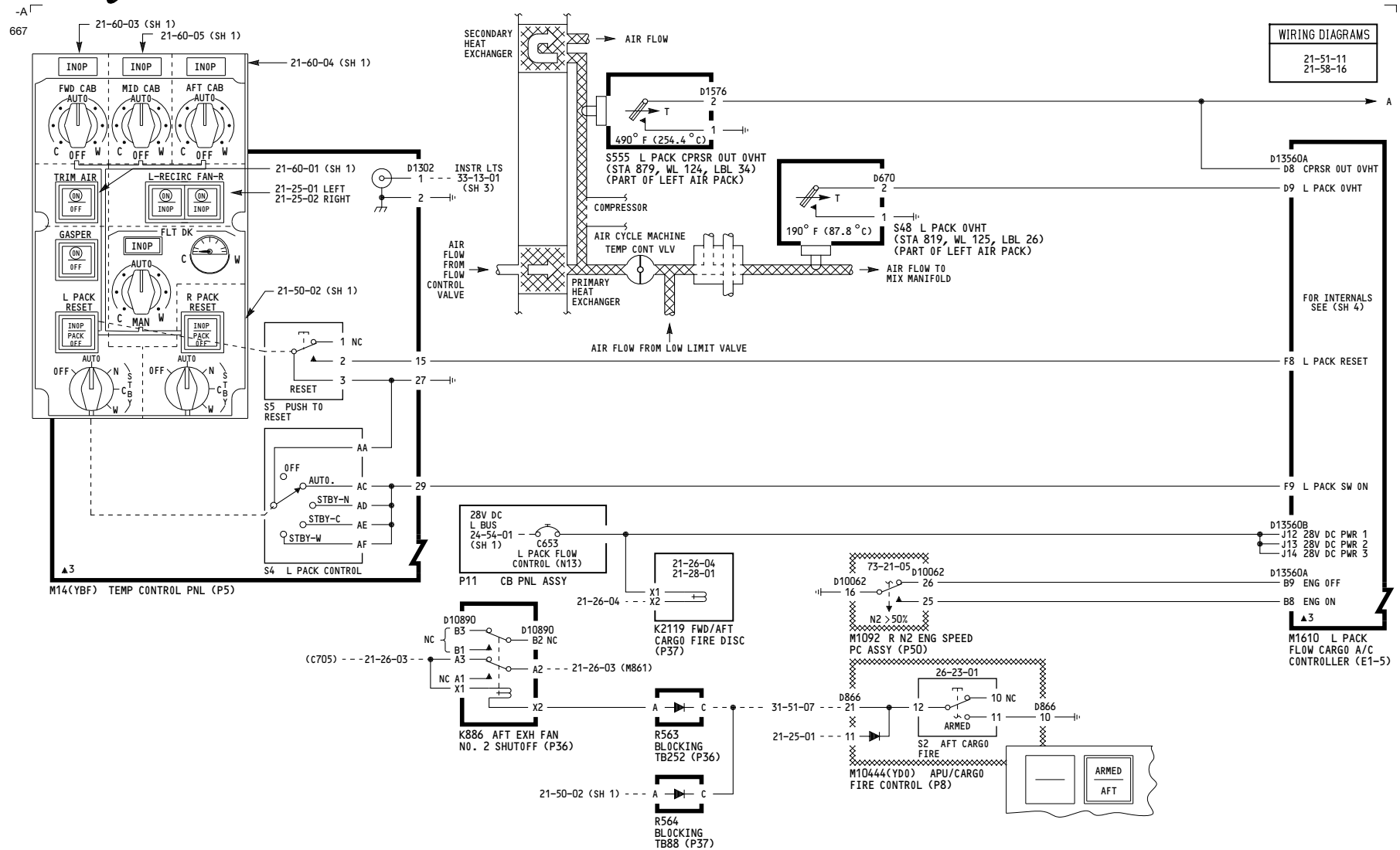
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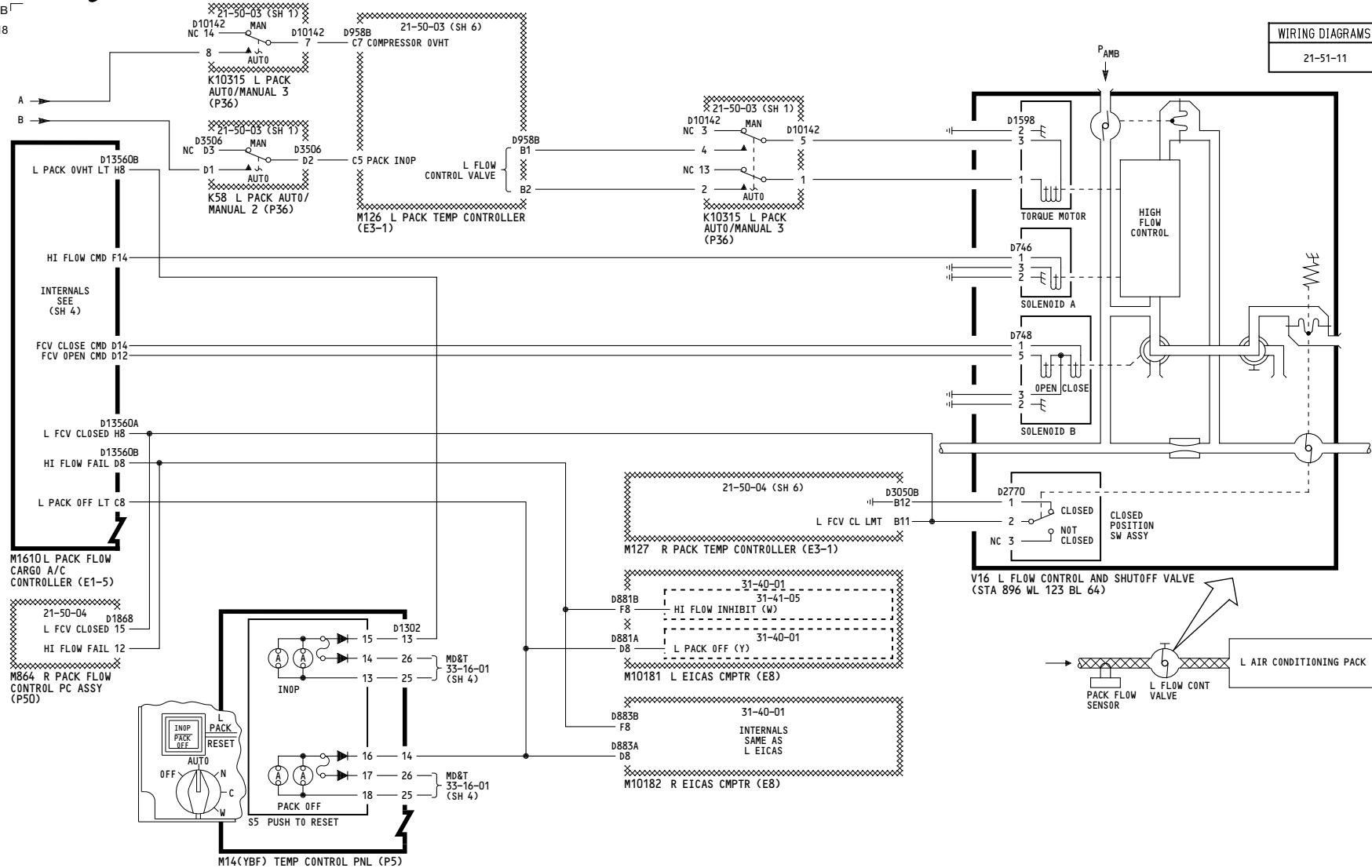


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21-51-11



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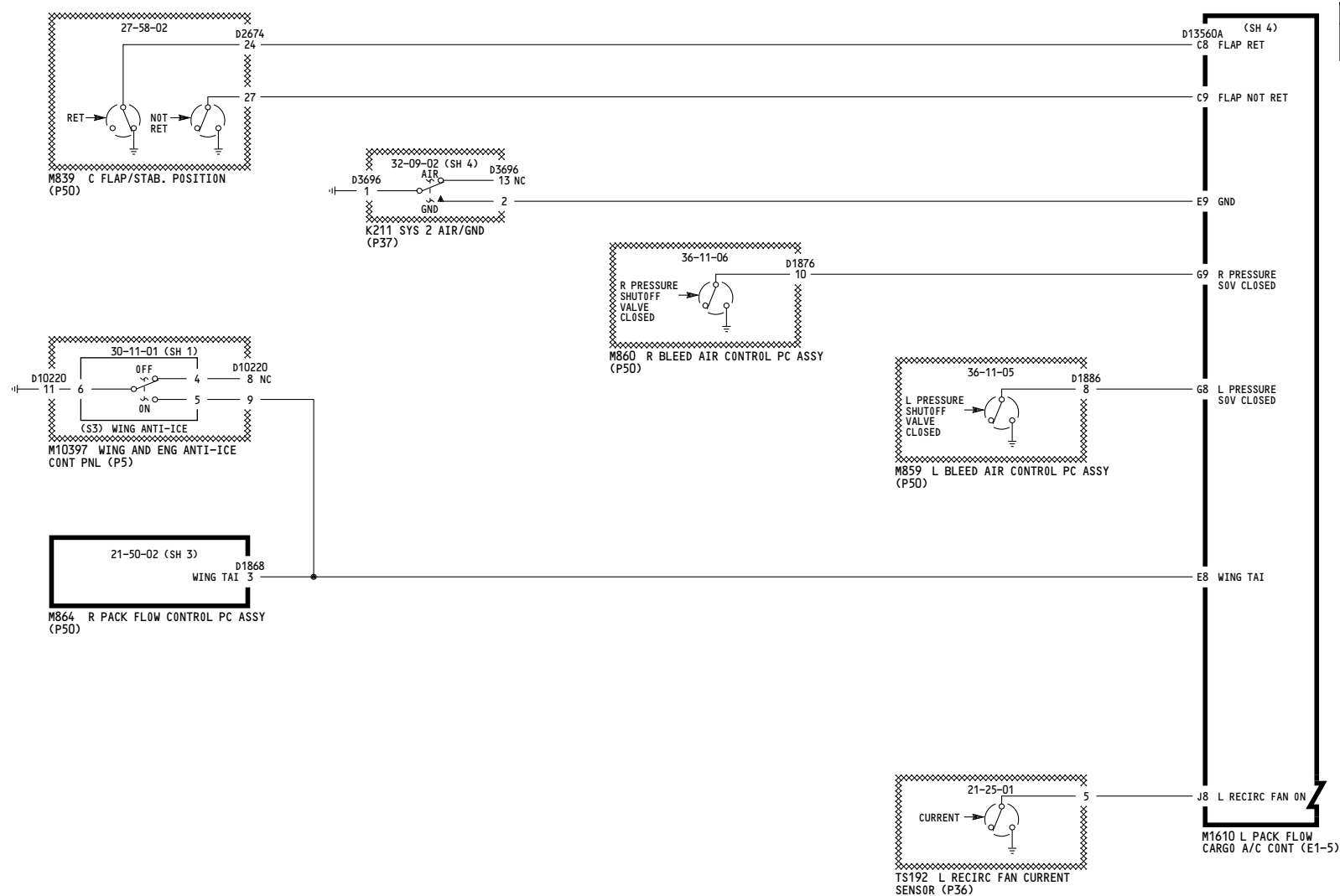
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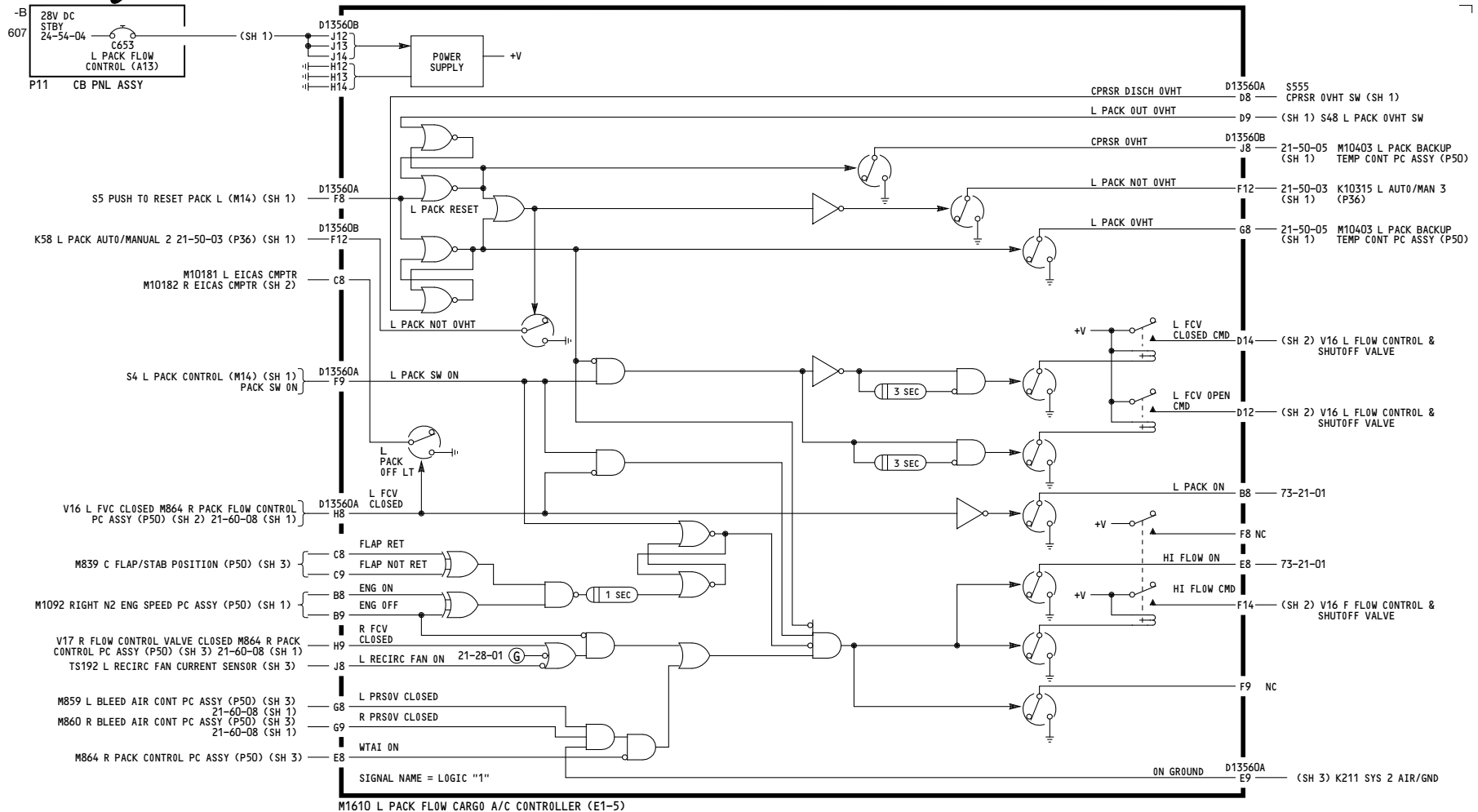
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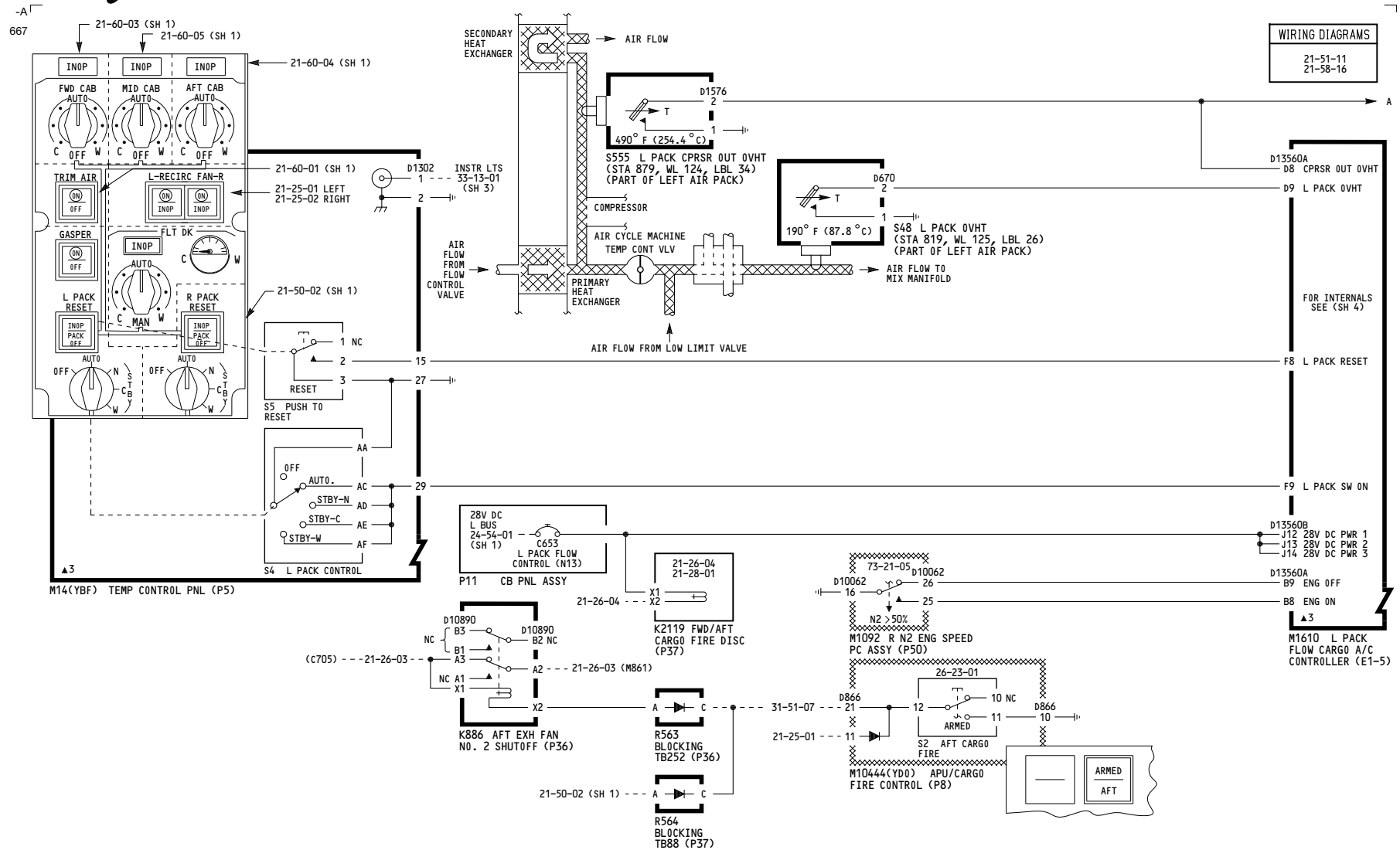
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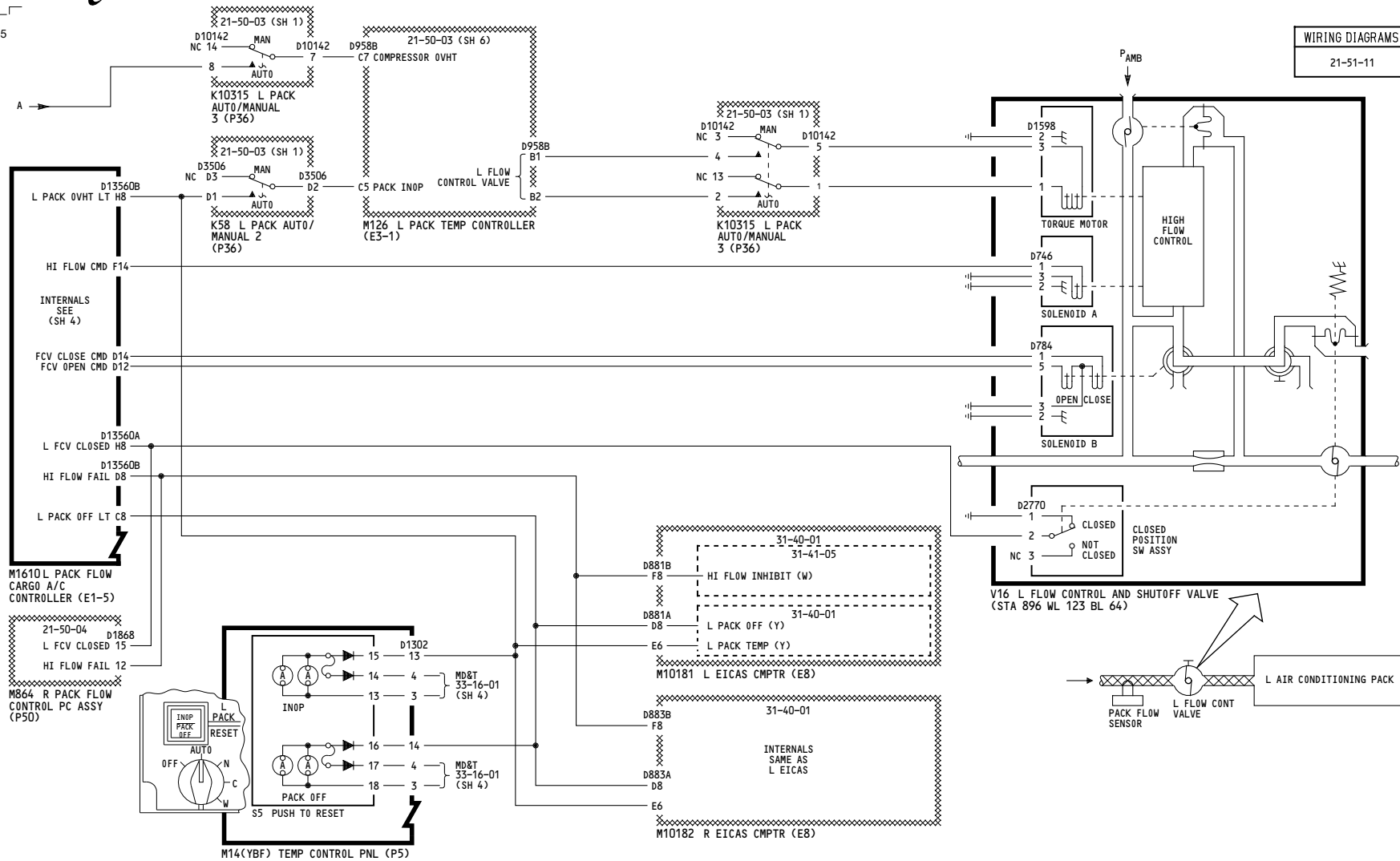


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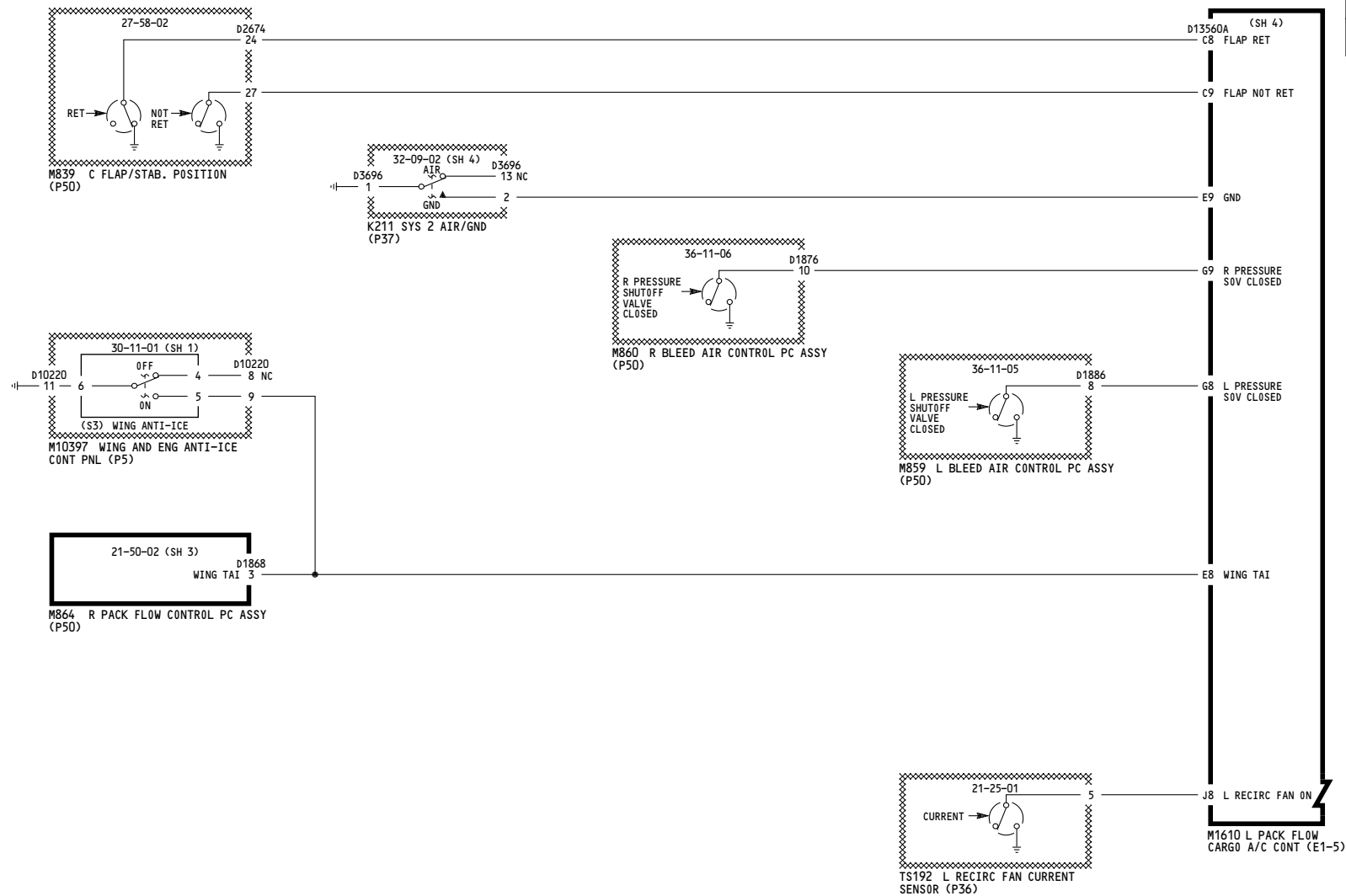
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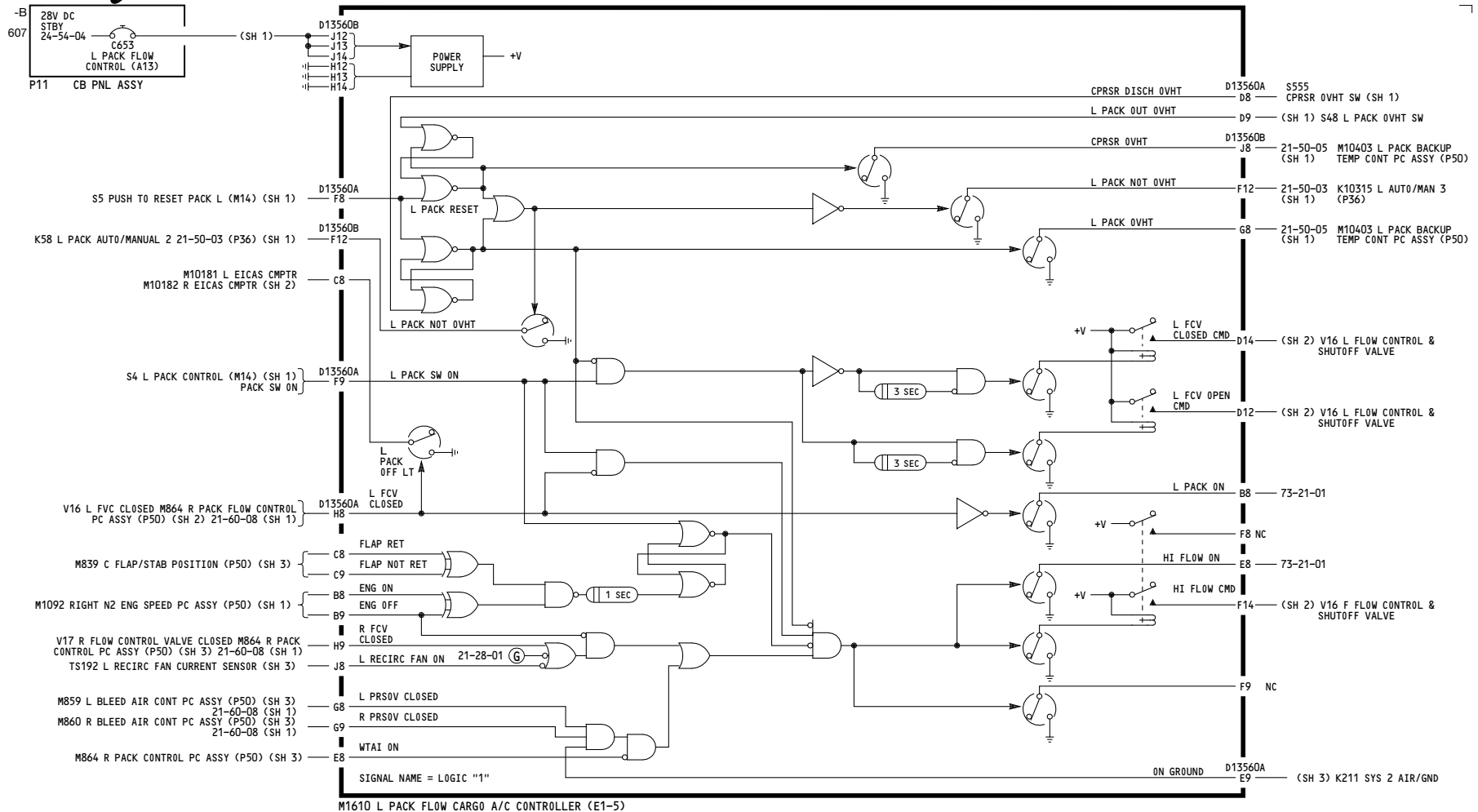
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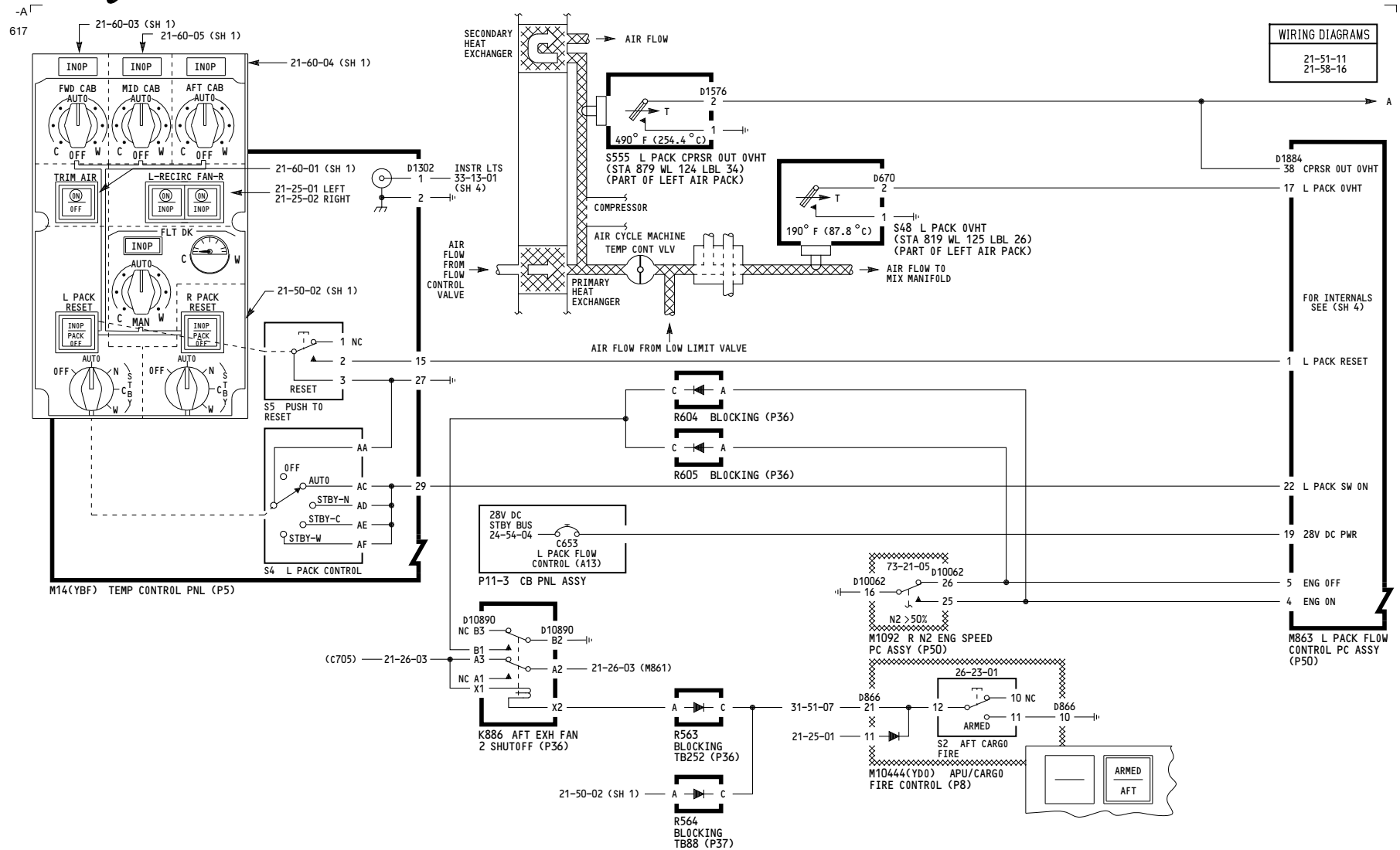
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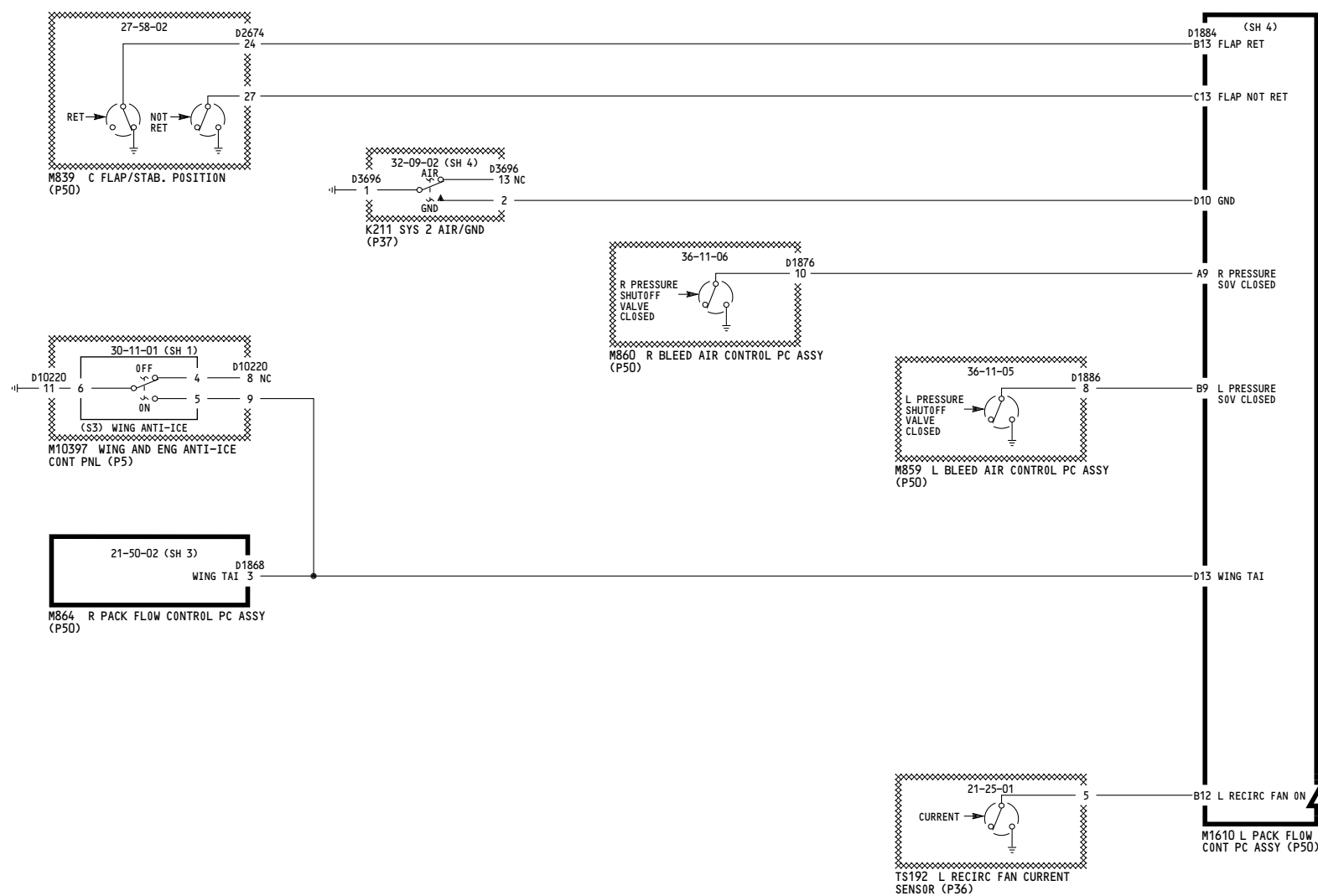
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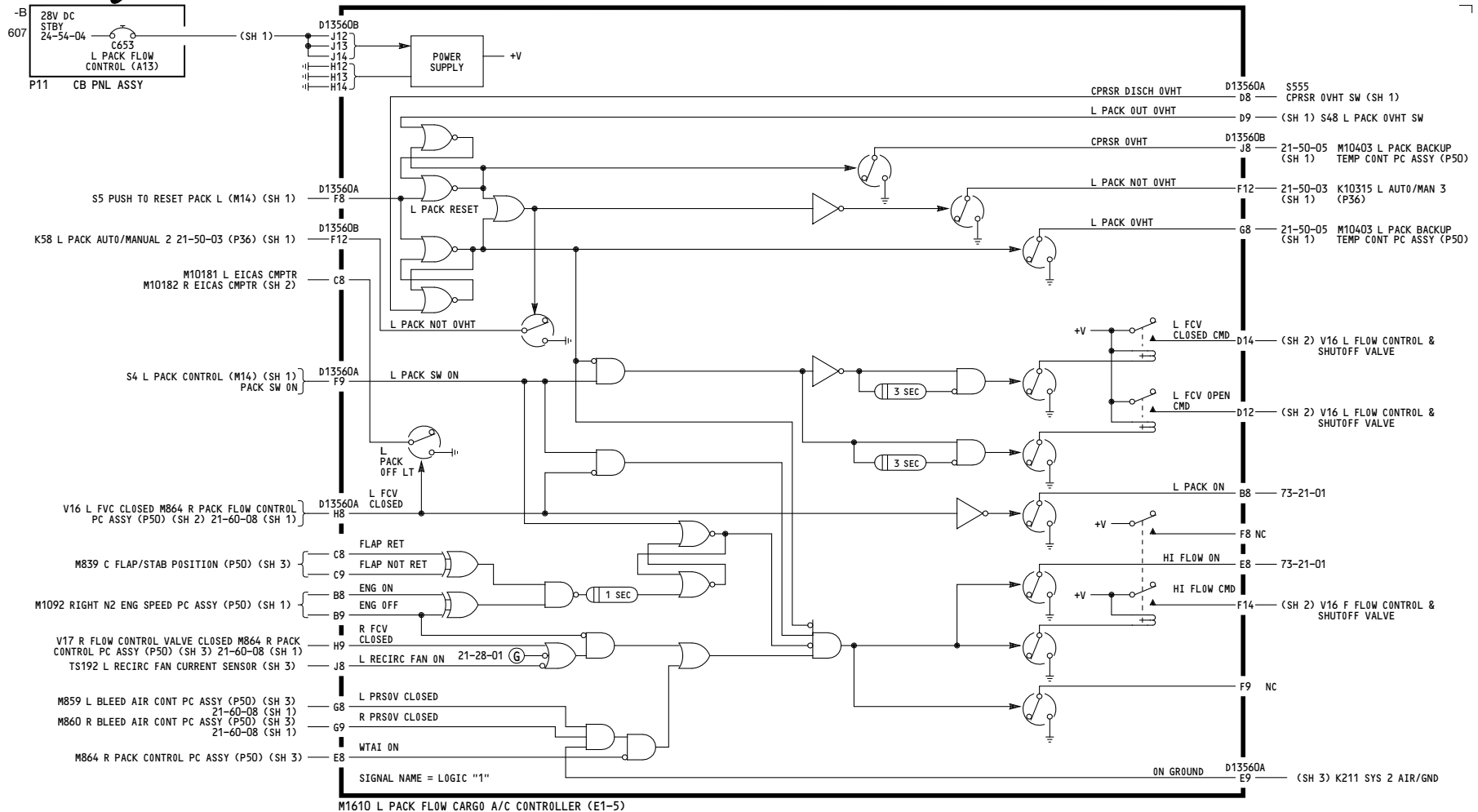
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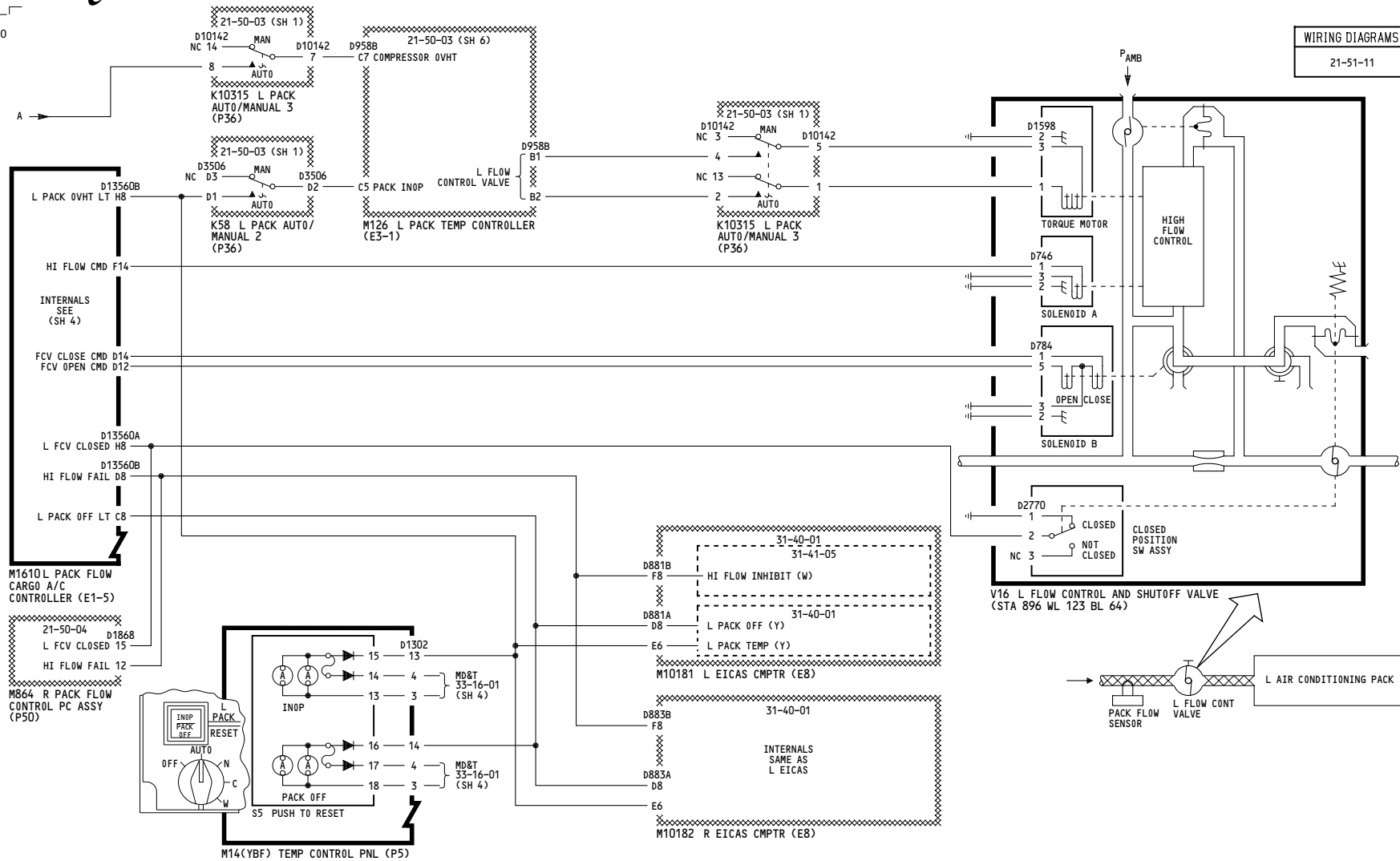


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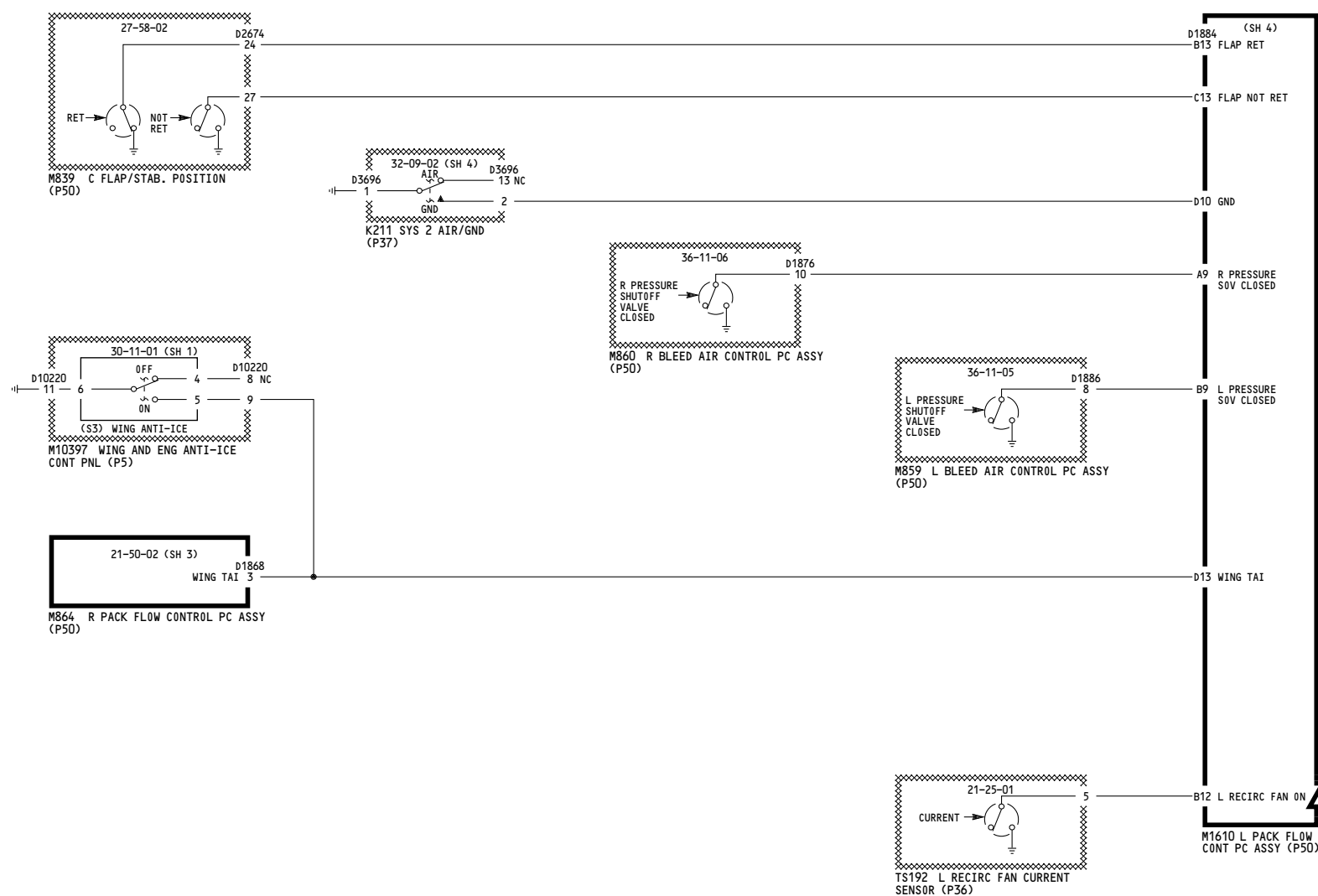
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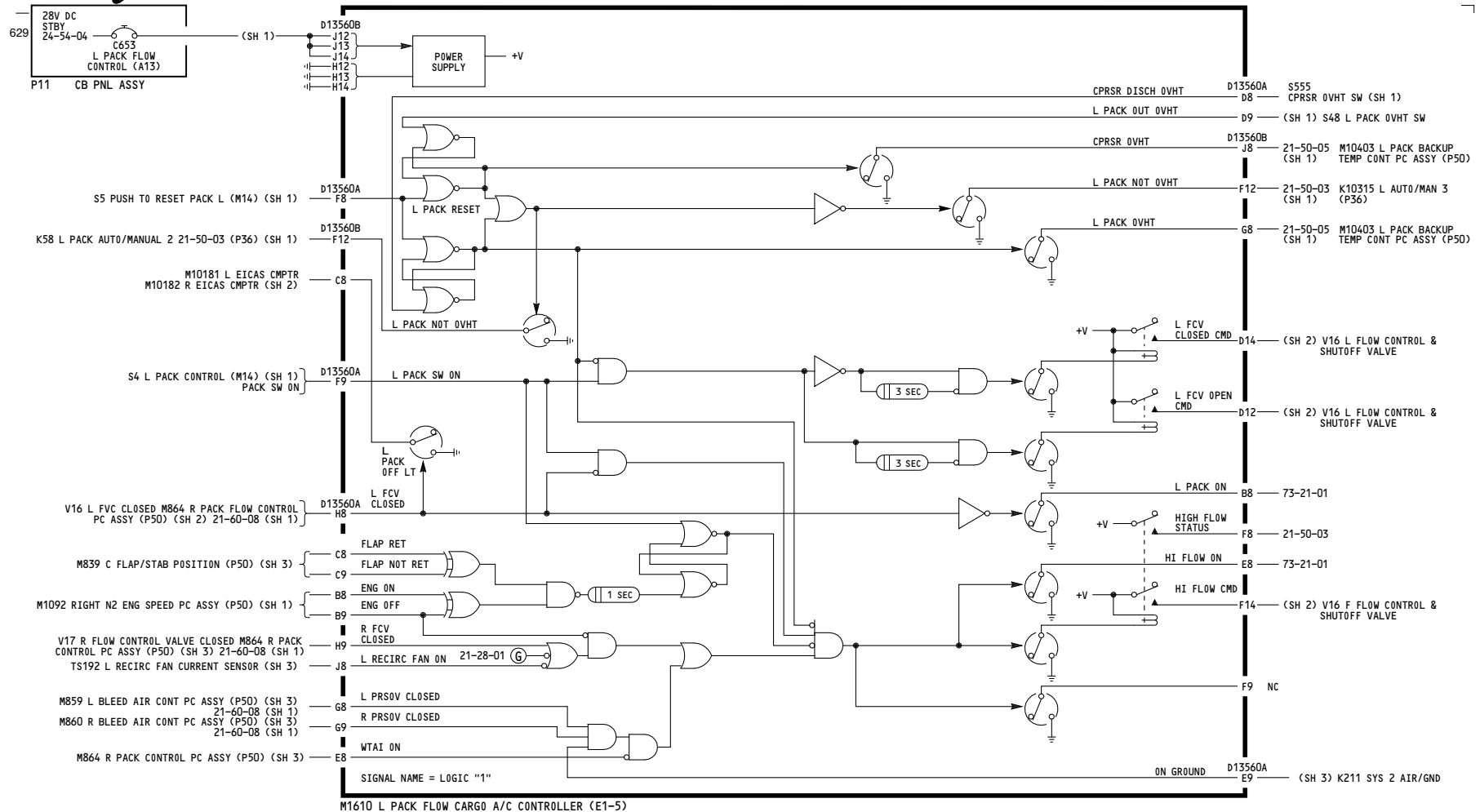
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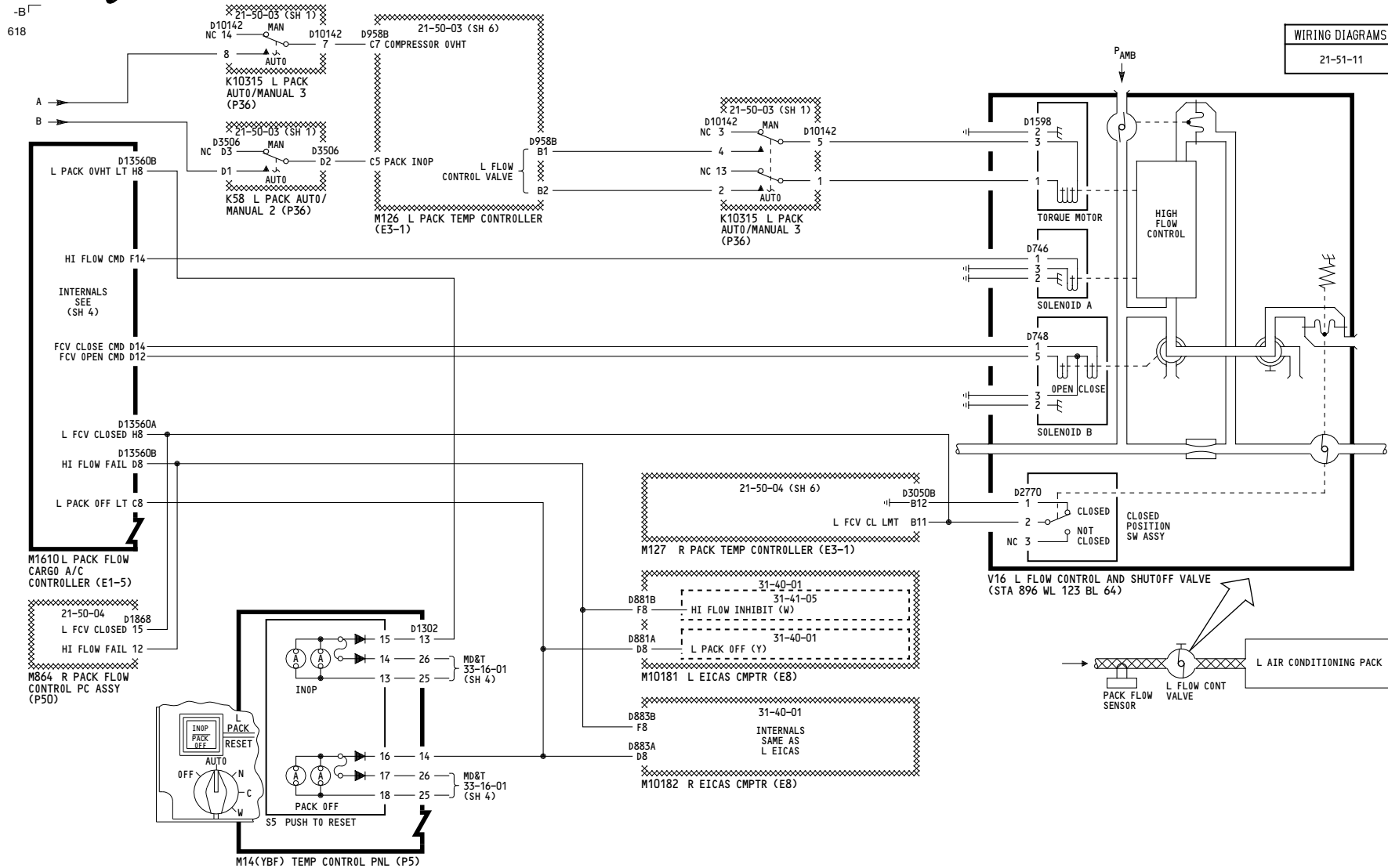
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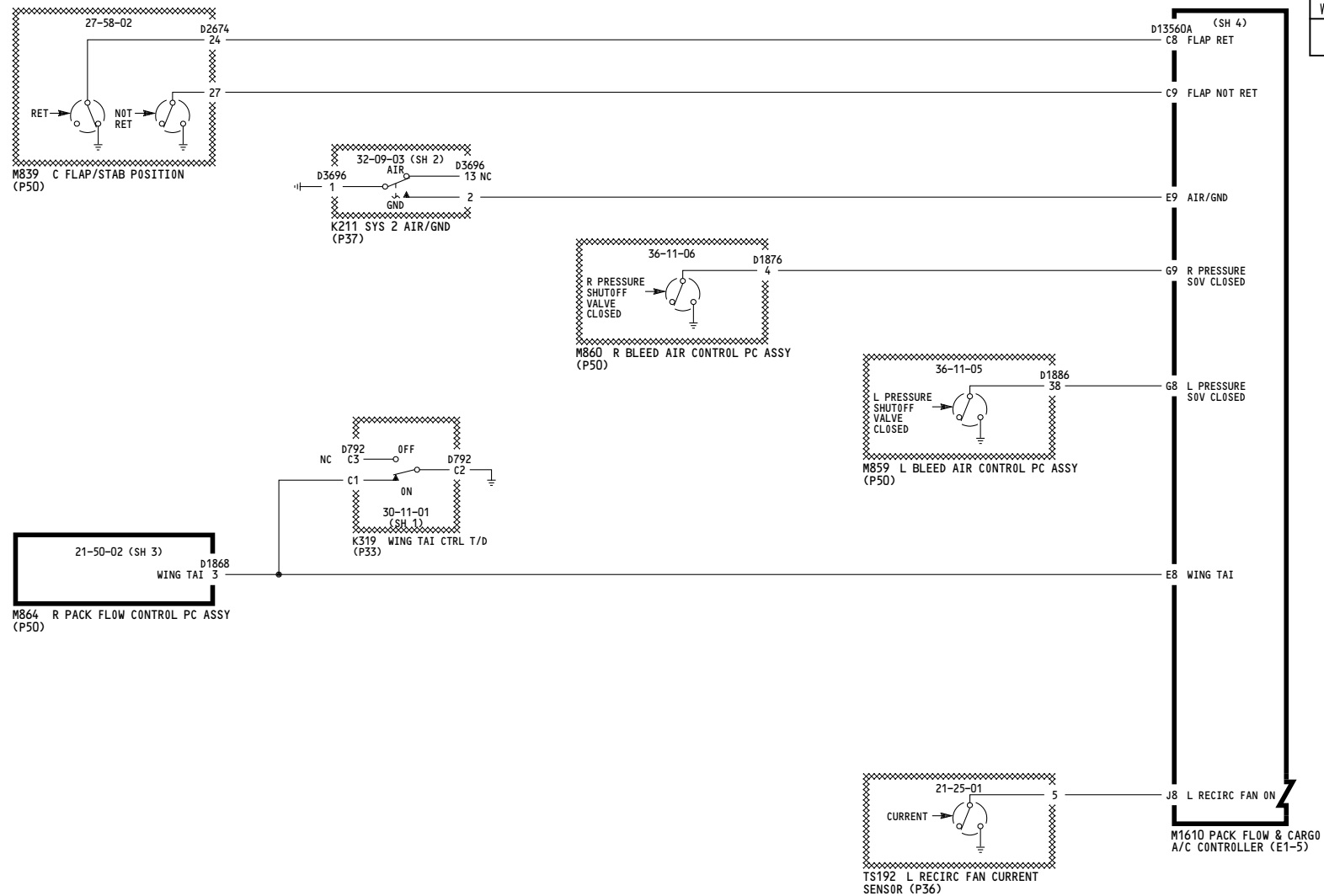
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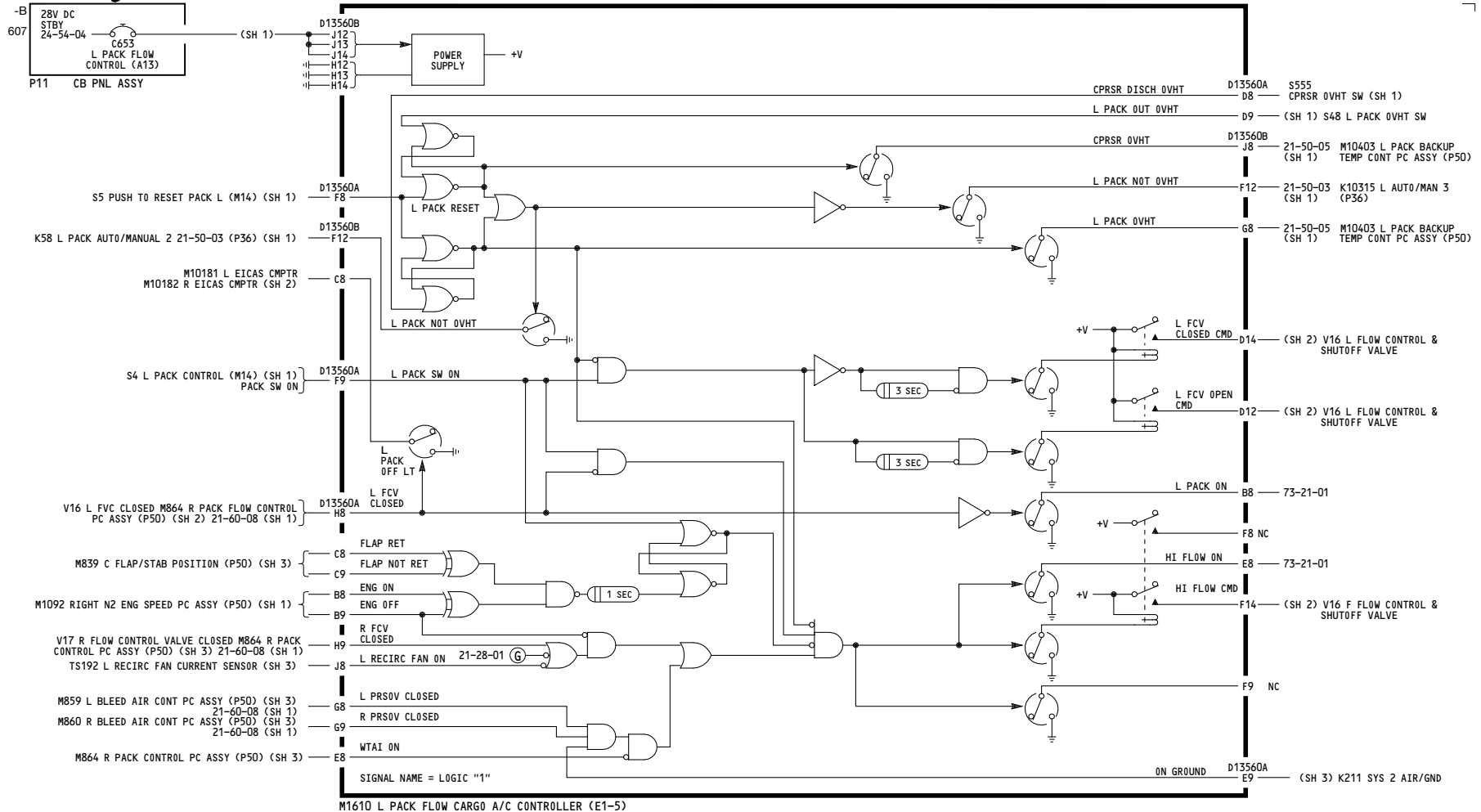
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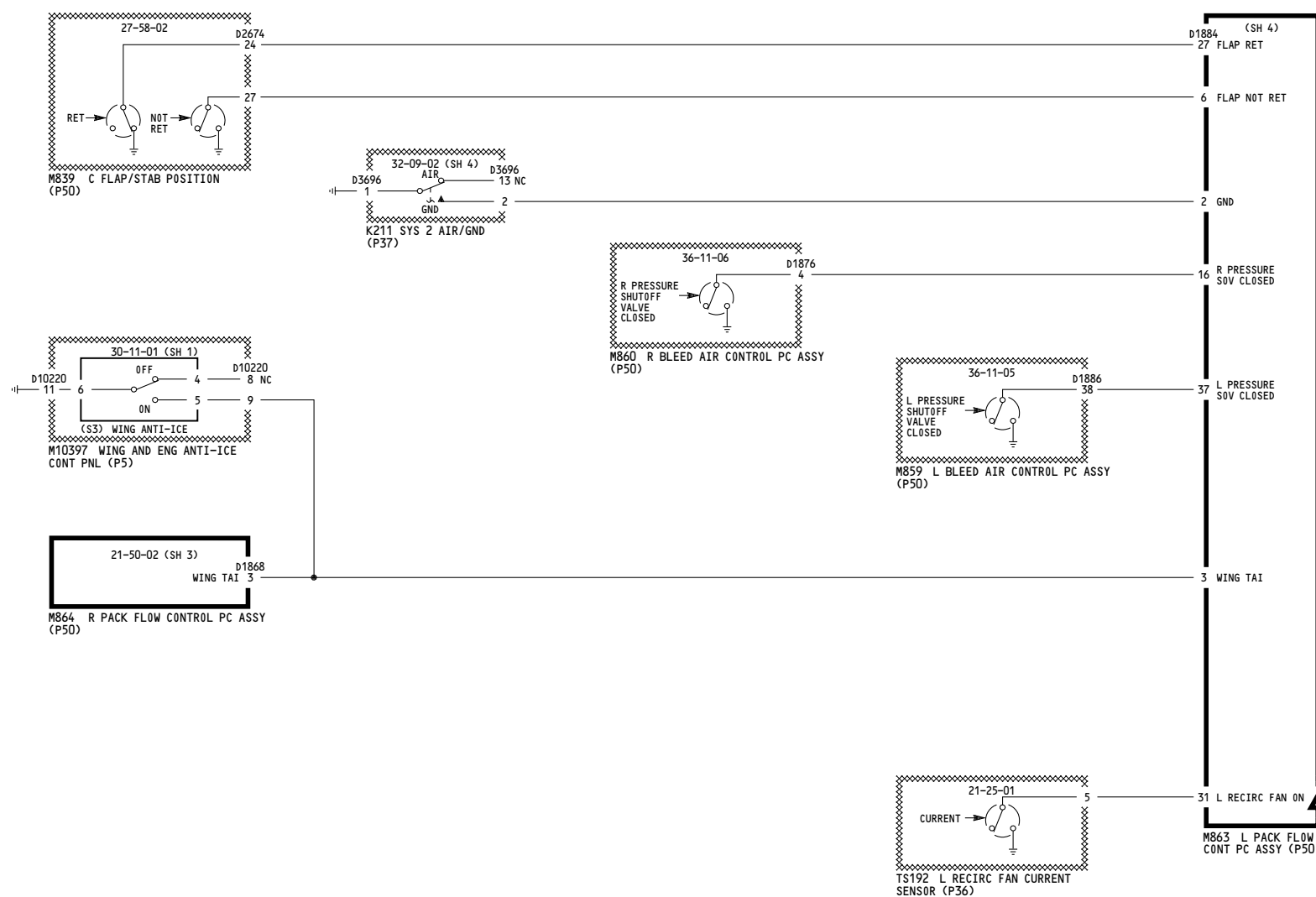
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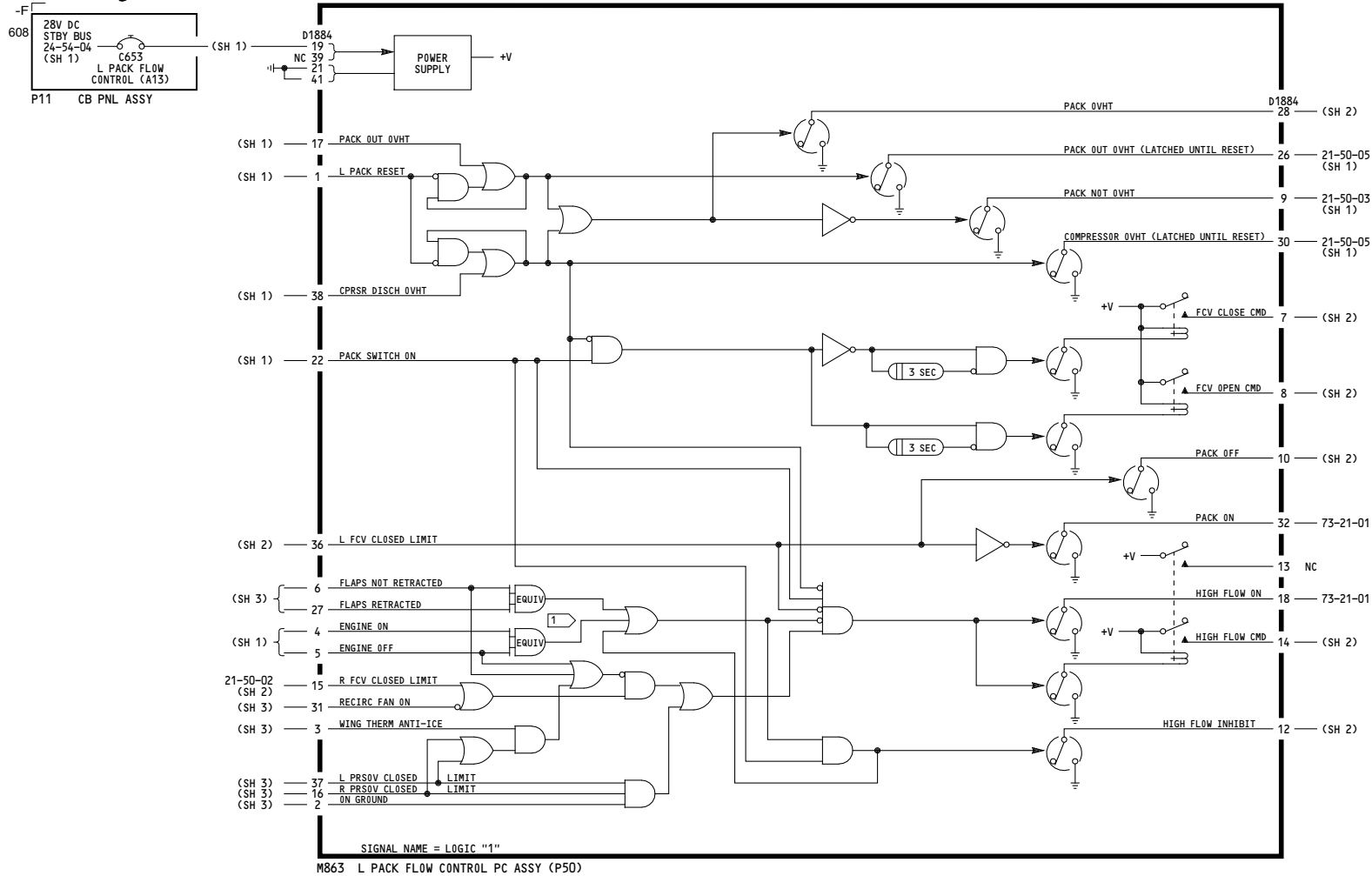
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WIRING DIAGRAMS
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21-51-21

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21-50-01



NOTES:

1 EQUIV MEANS BOTH INPUTS MUST BE THE SAME

280-299

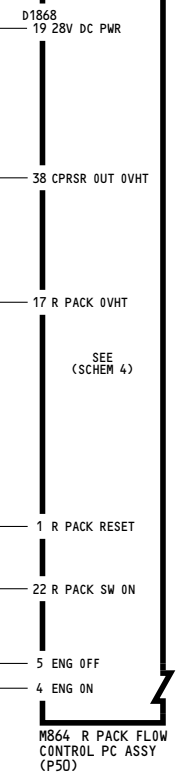
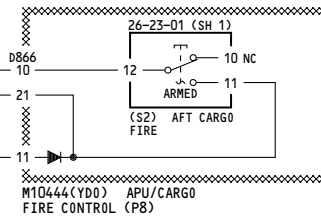
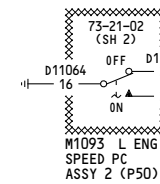
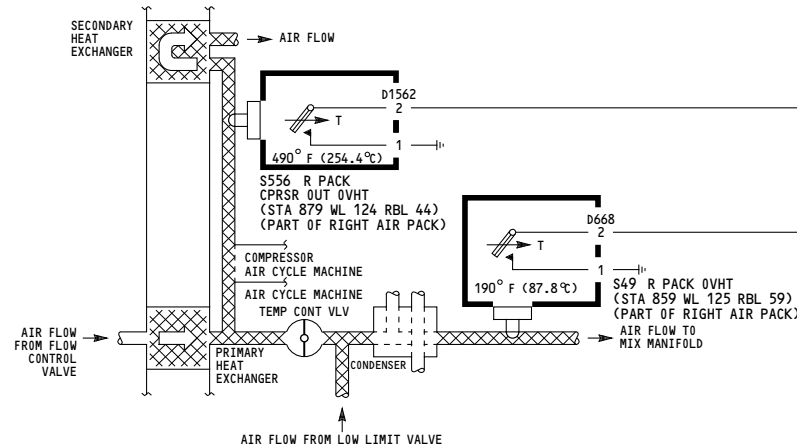
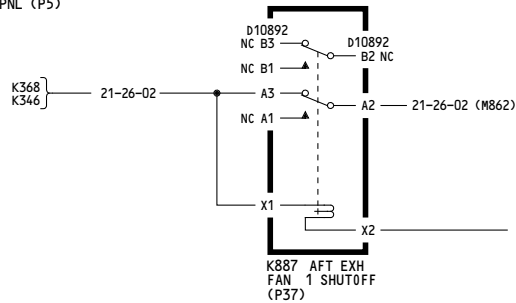
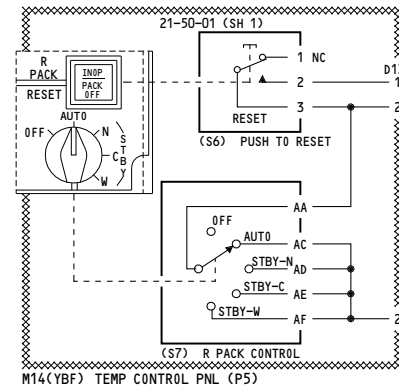
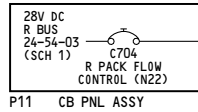
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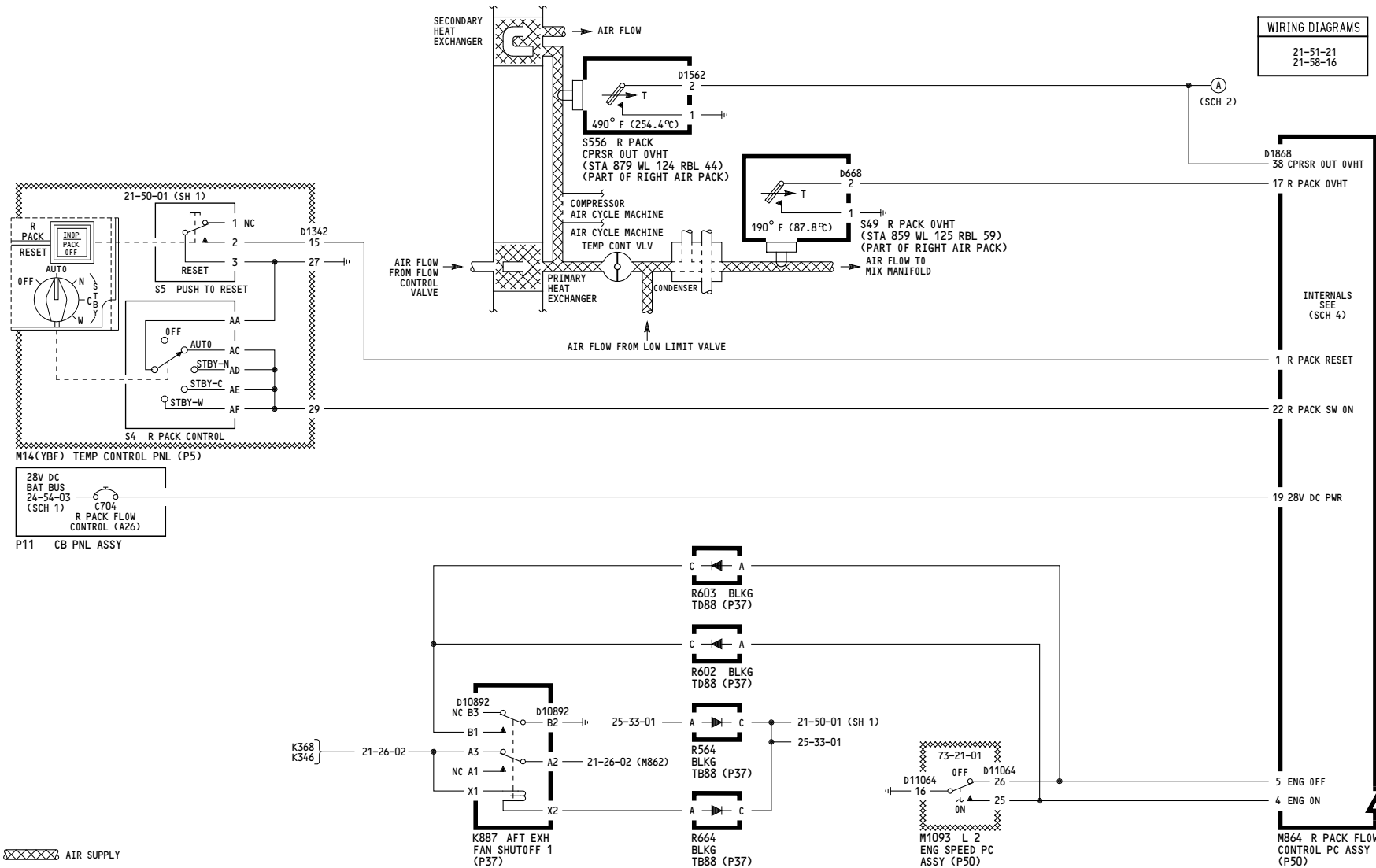
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153-154

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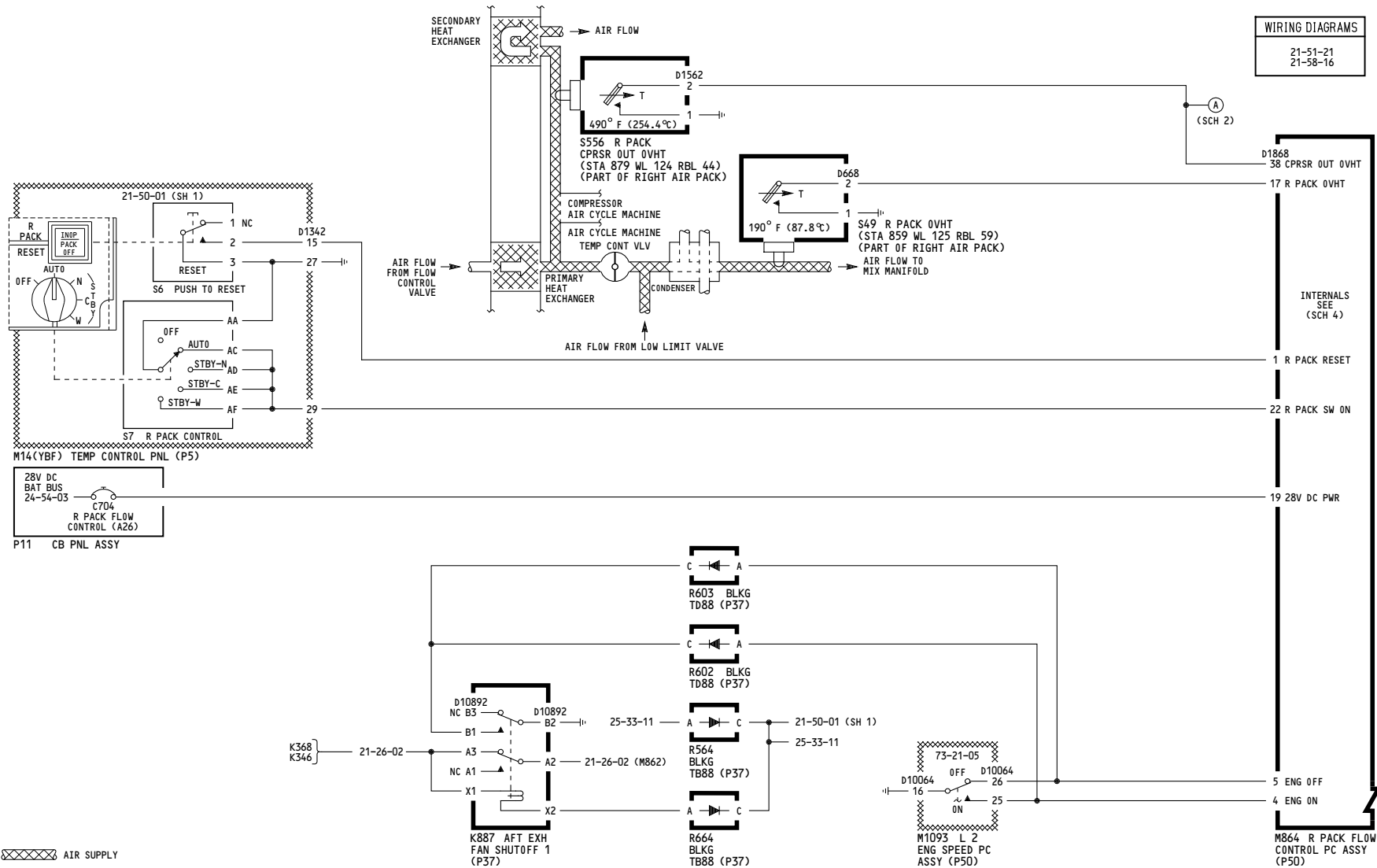
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155-157, 165-199, 277-299

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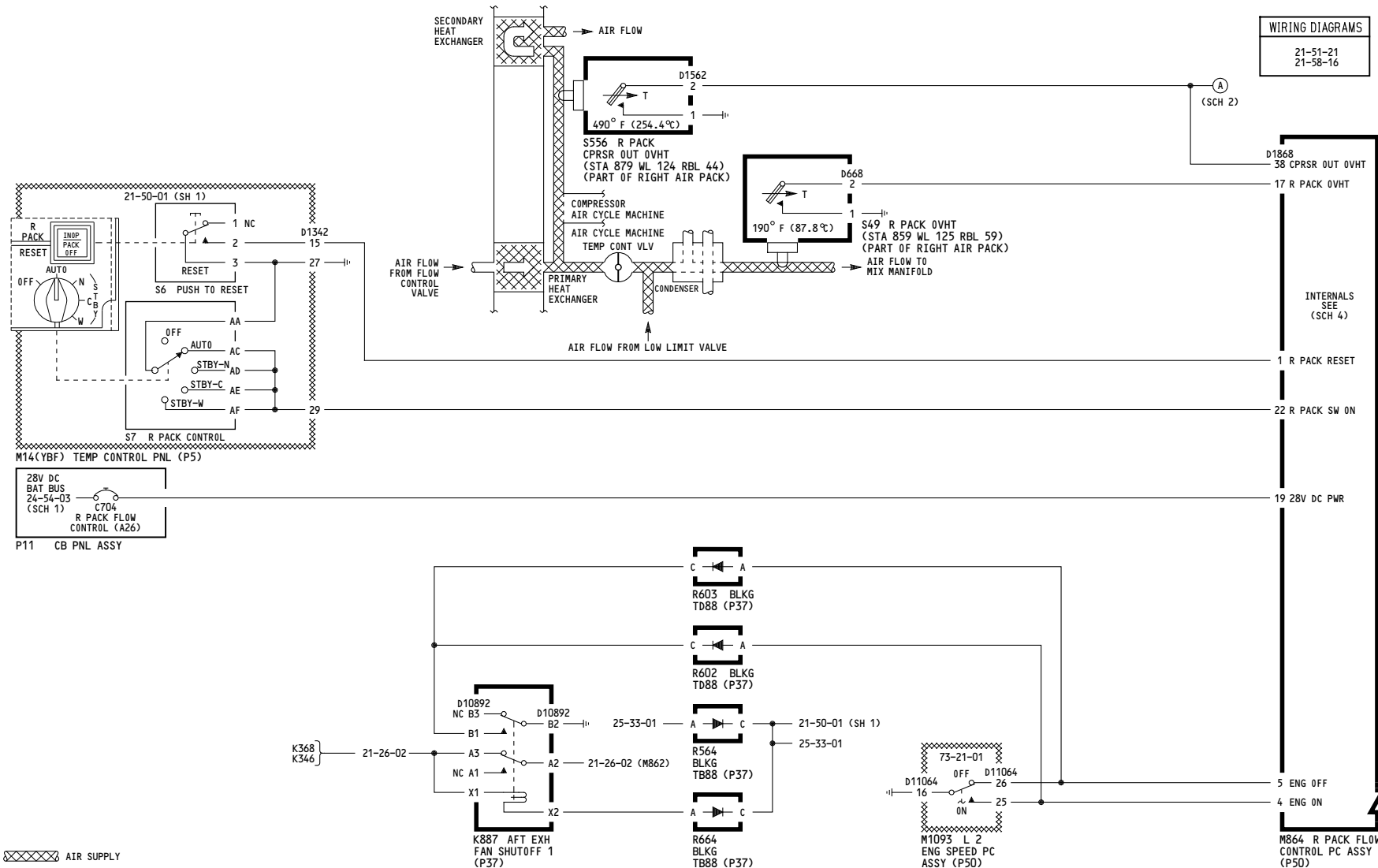
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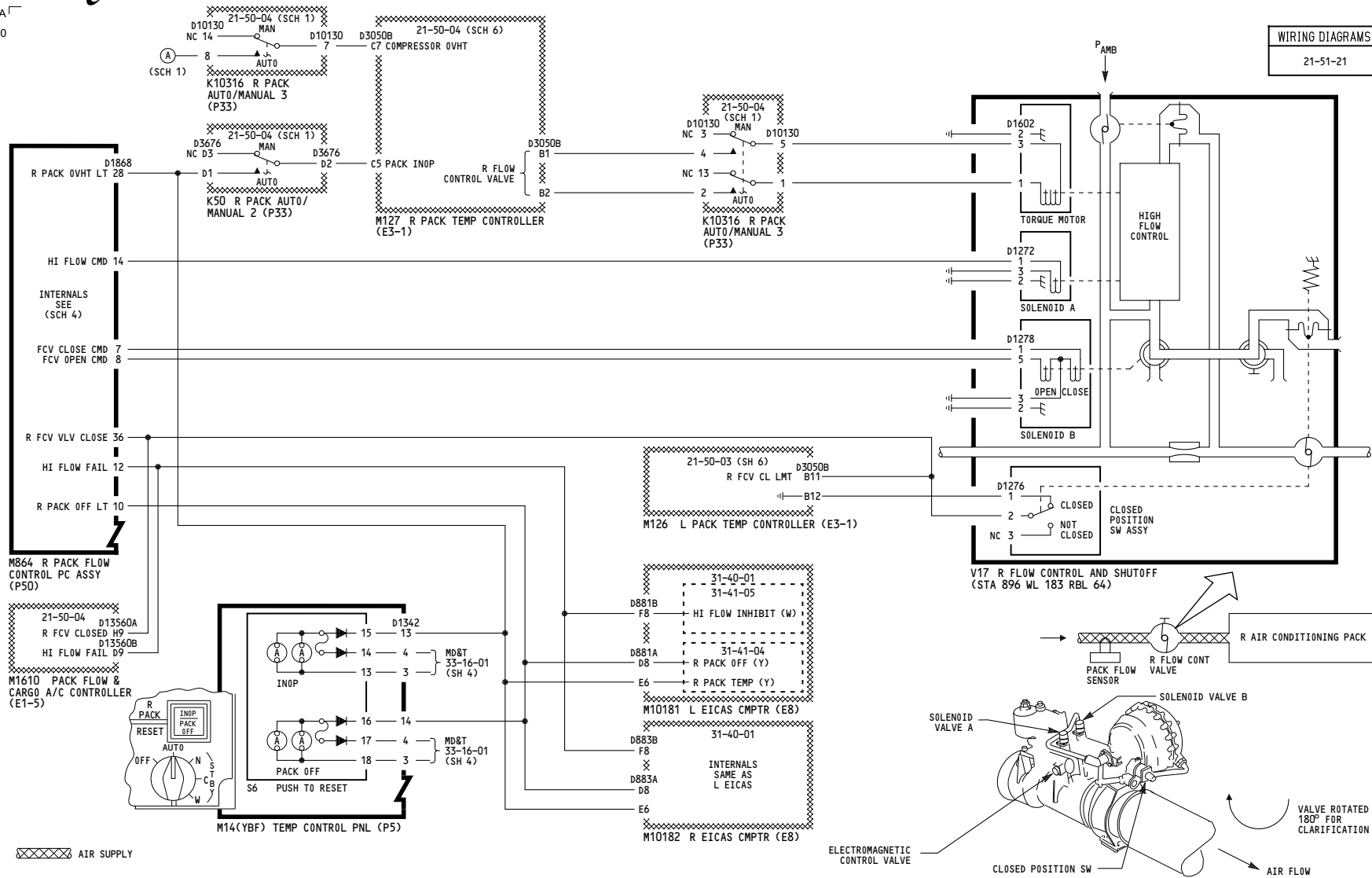
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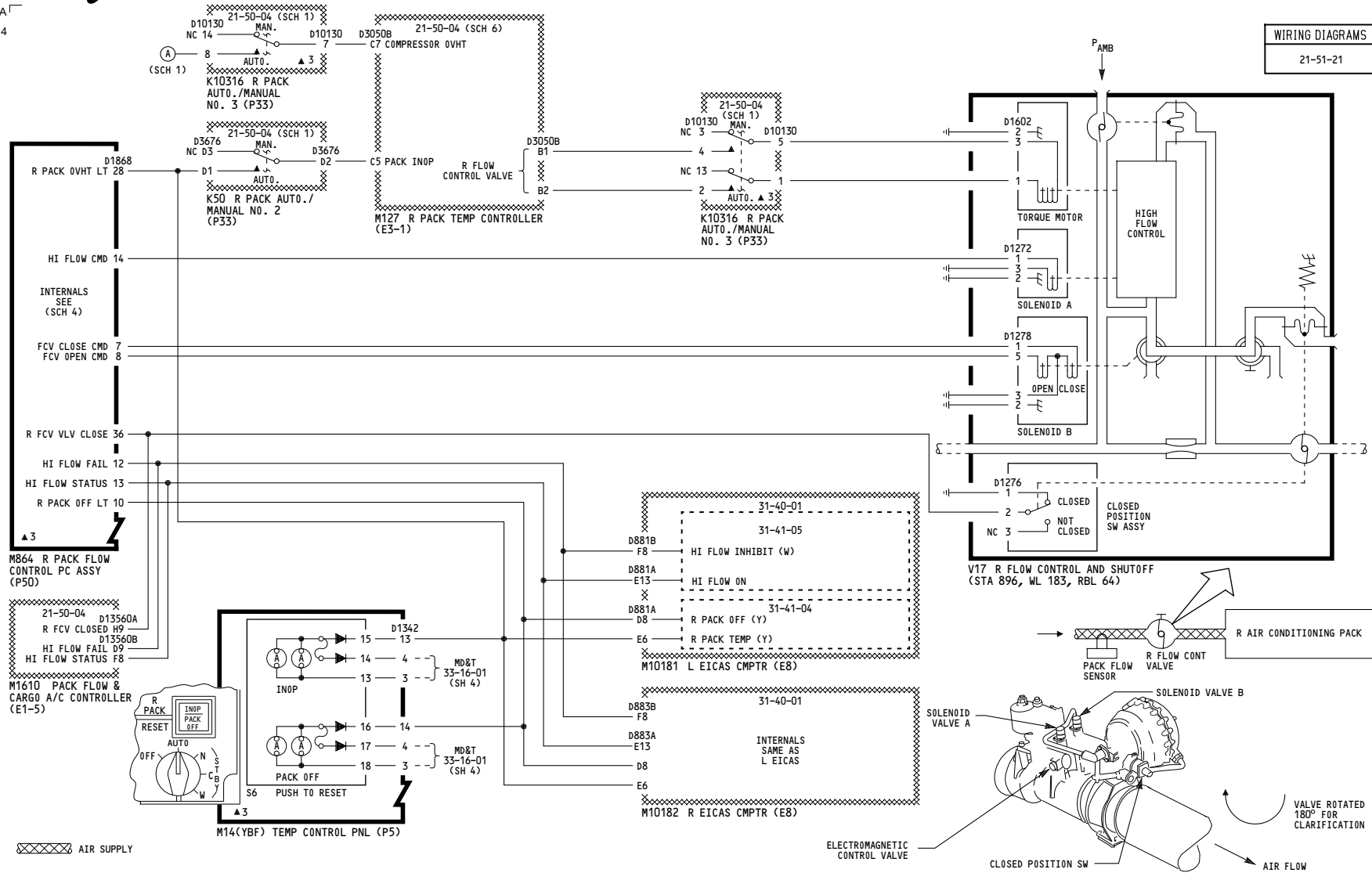
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21-51-21



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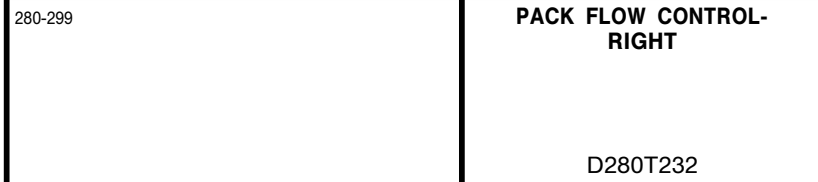
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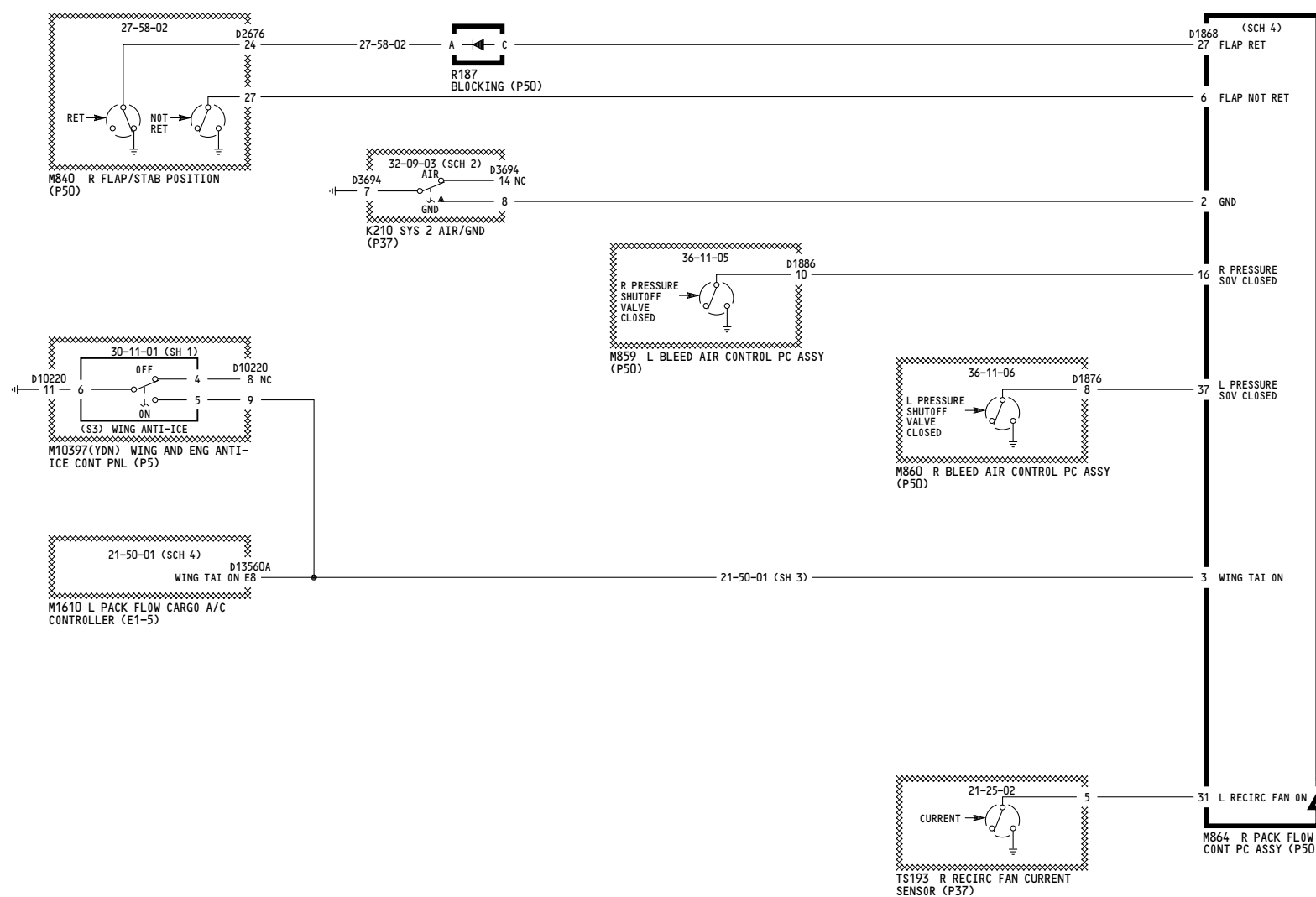


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21-51-23	

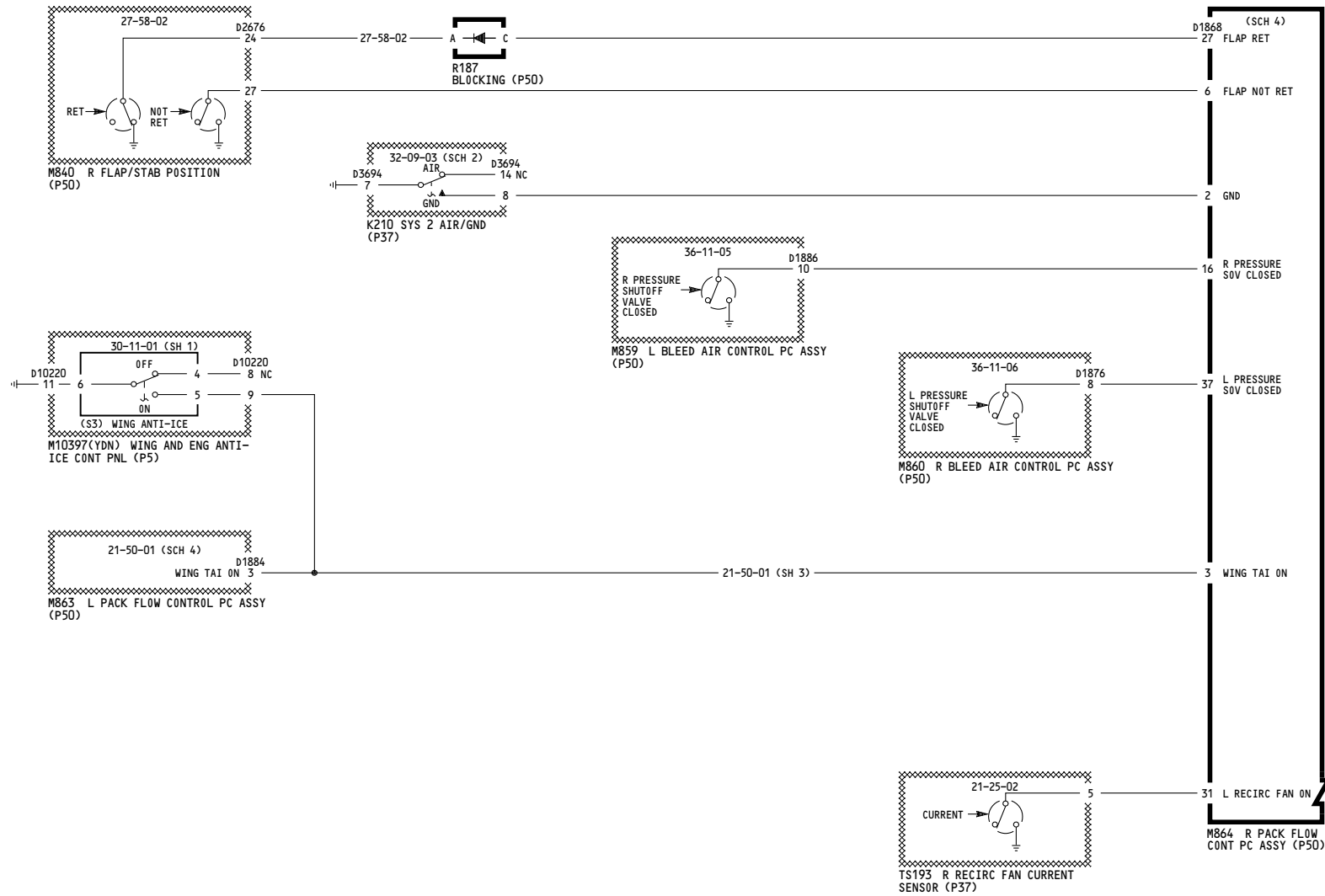
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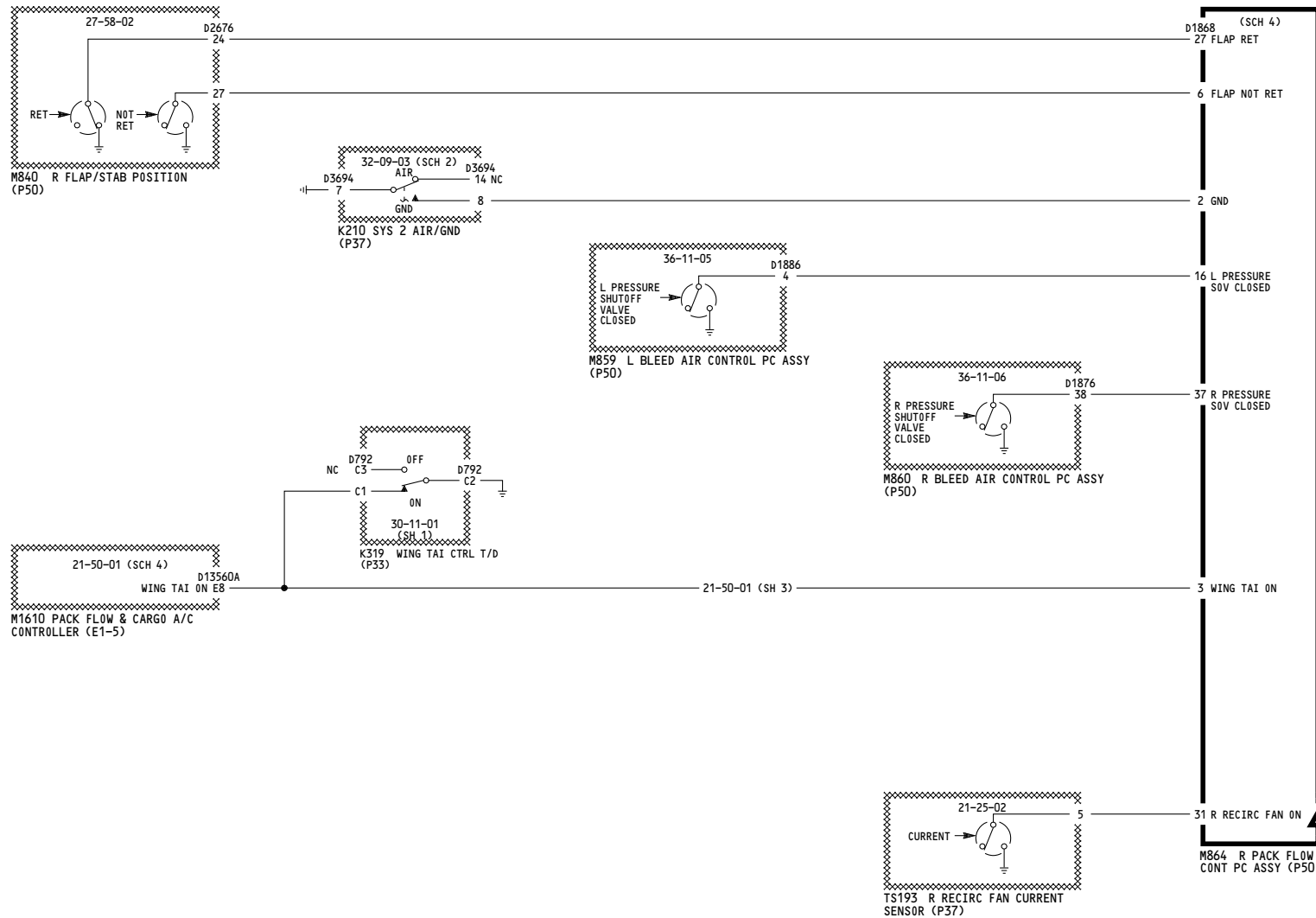
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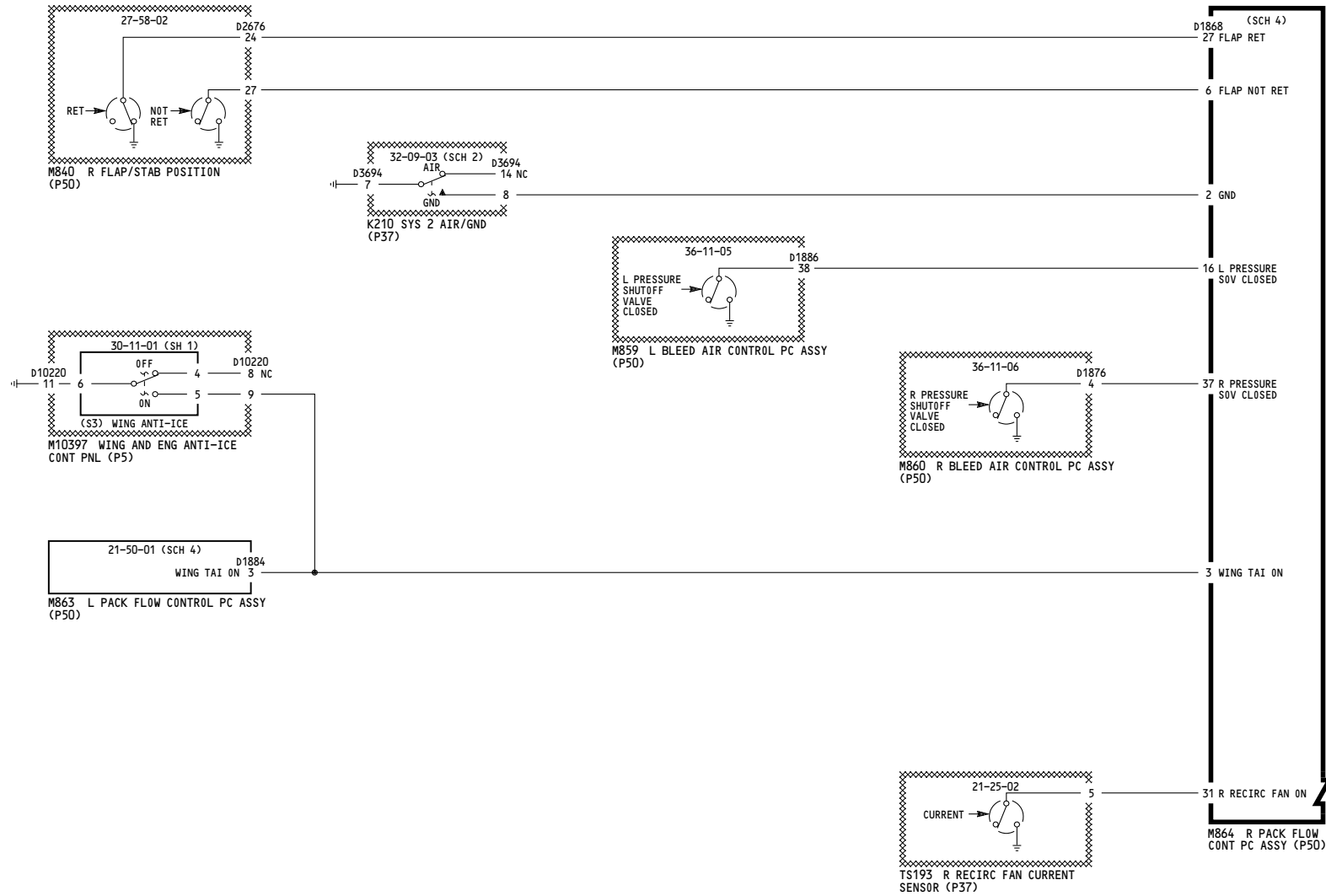
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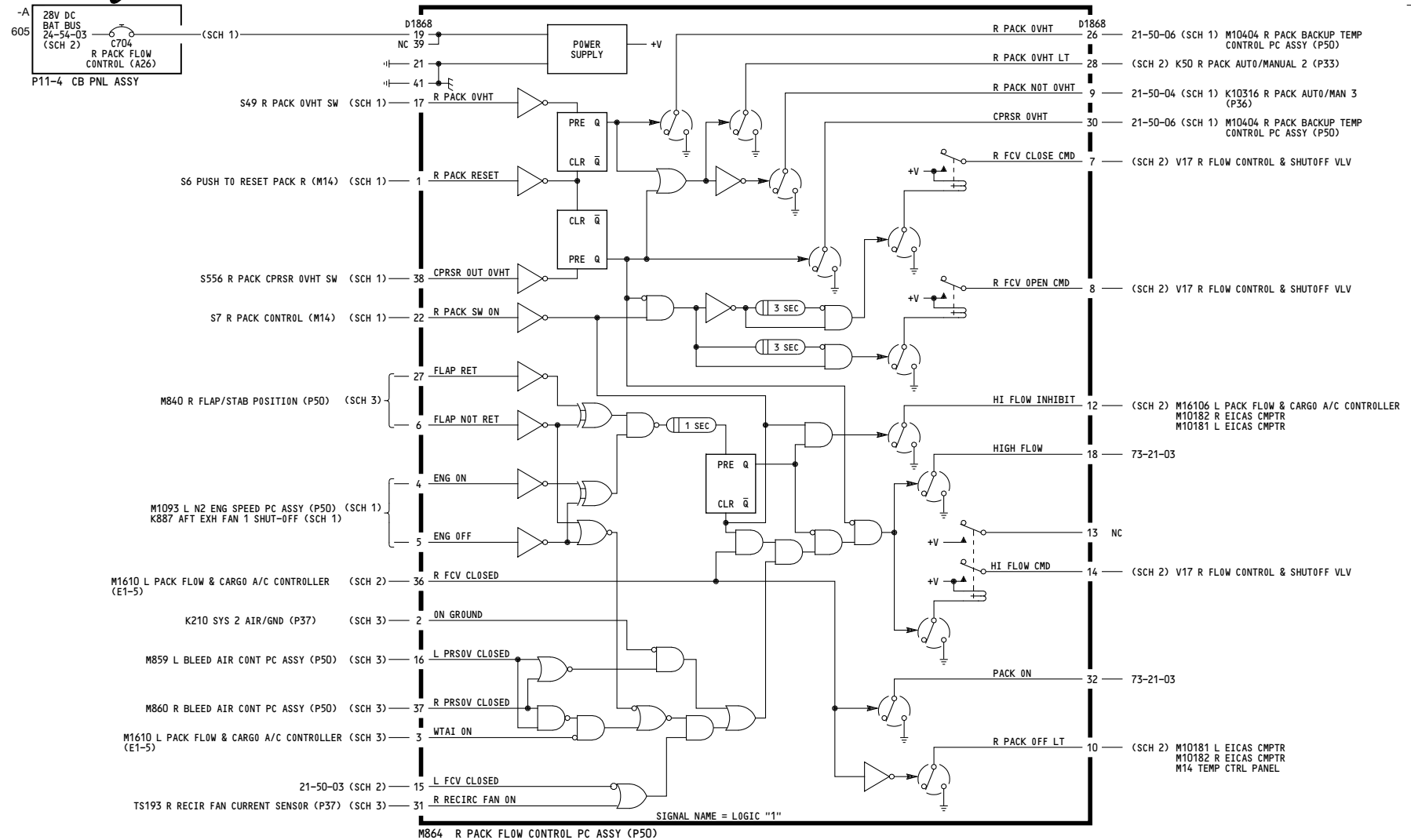
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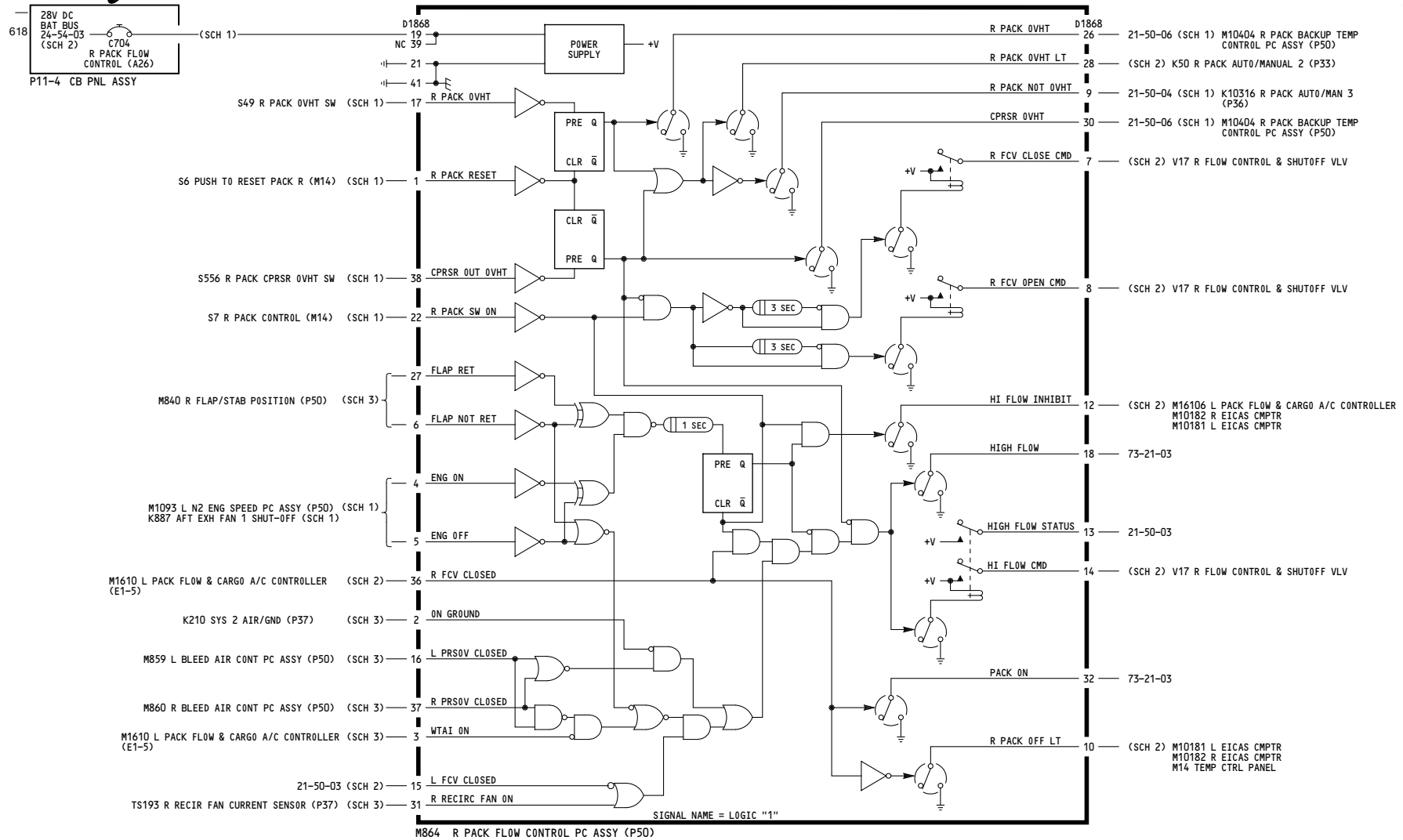
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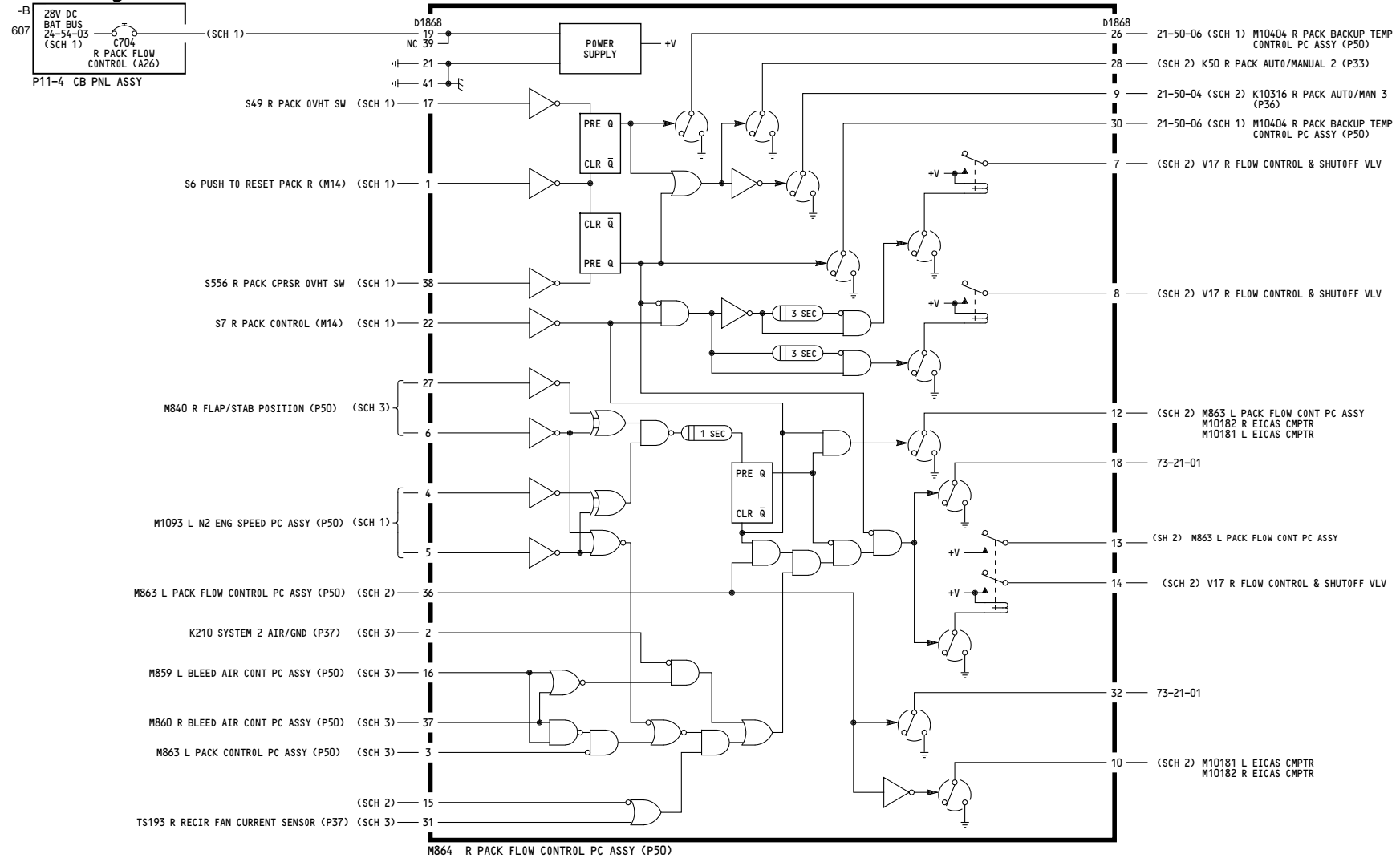
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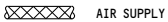
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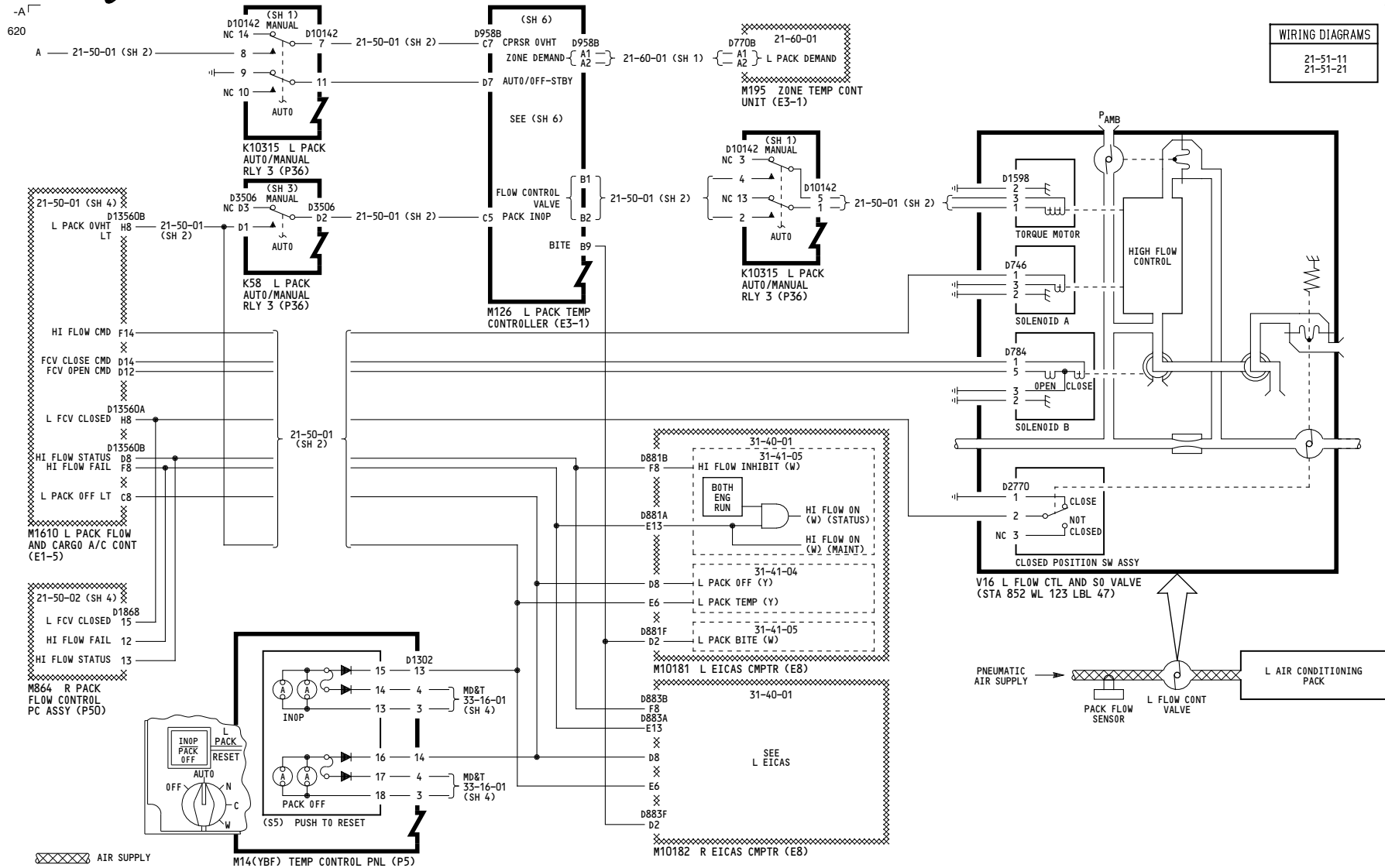
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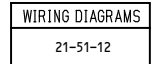
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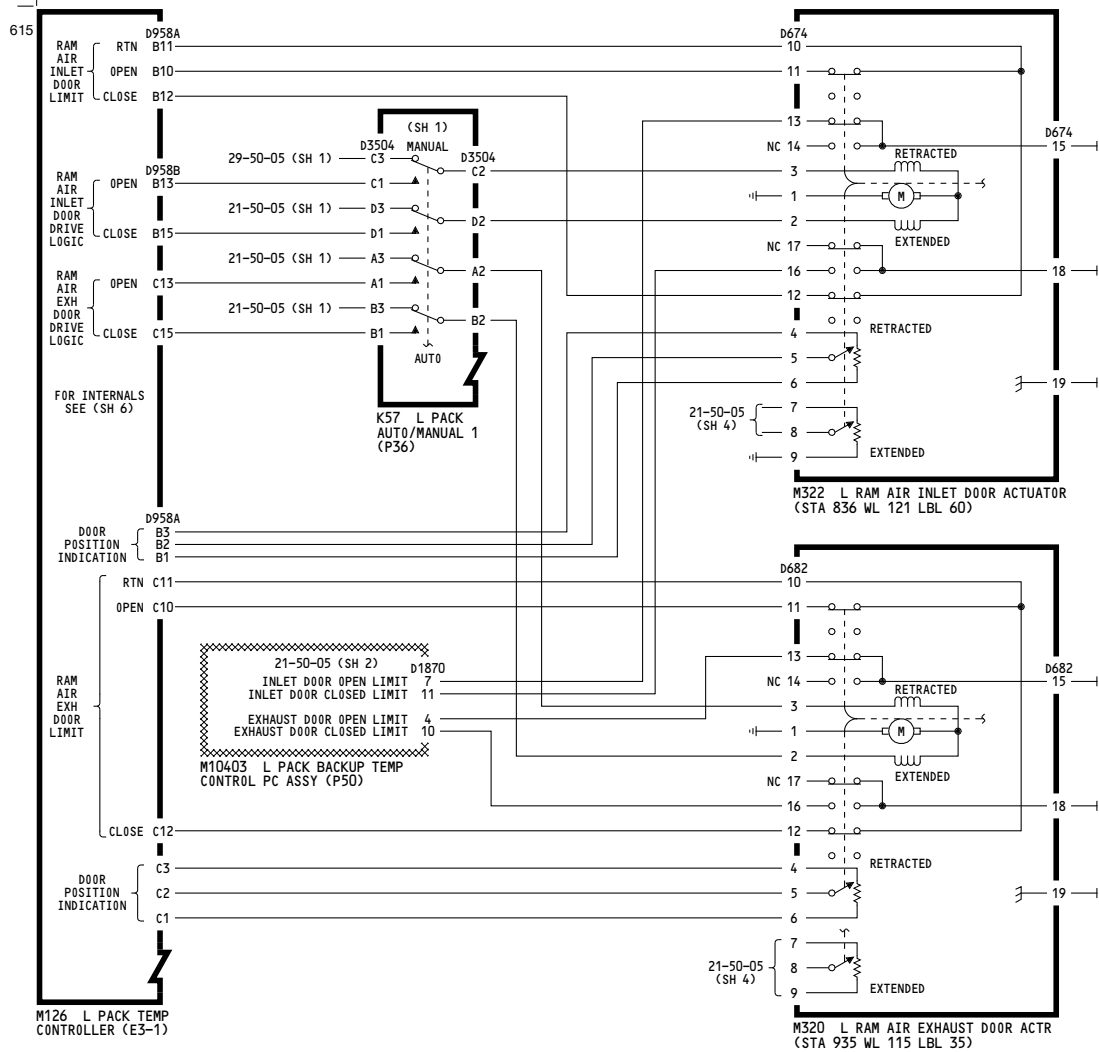
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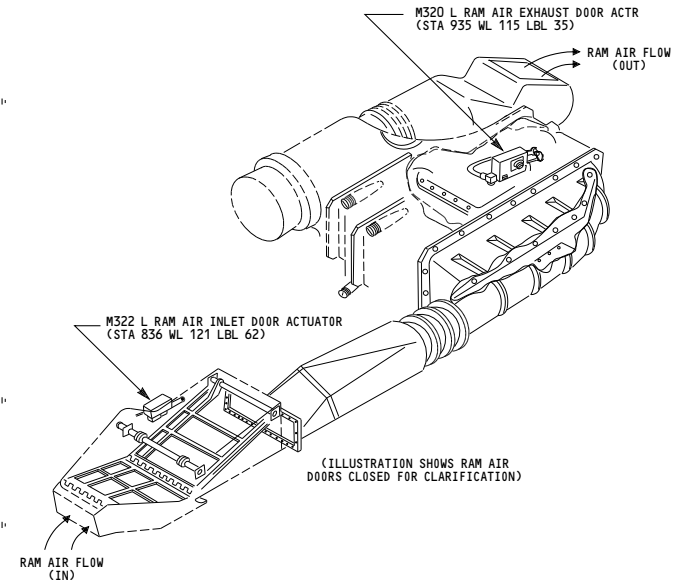
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NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.



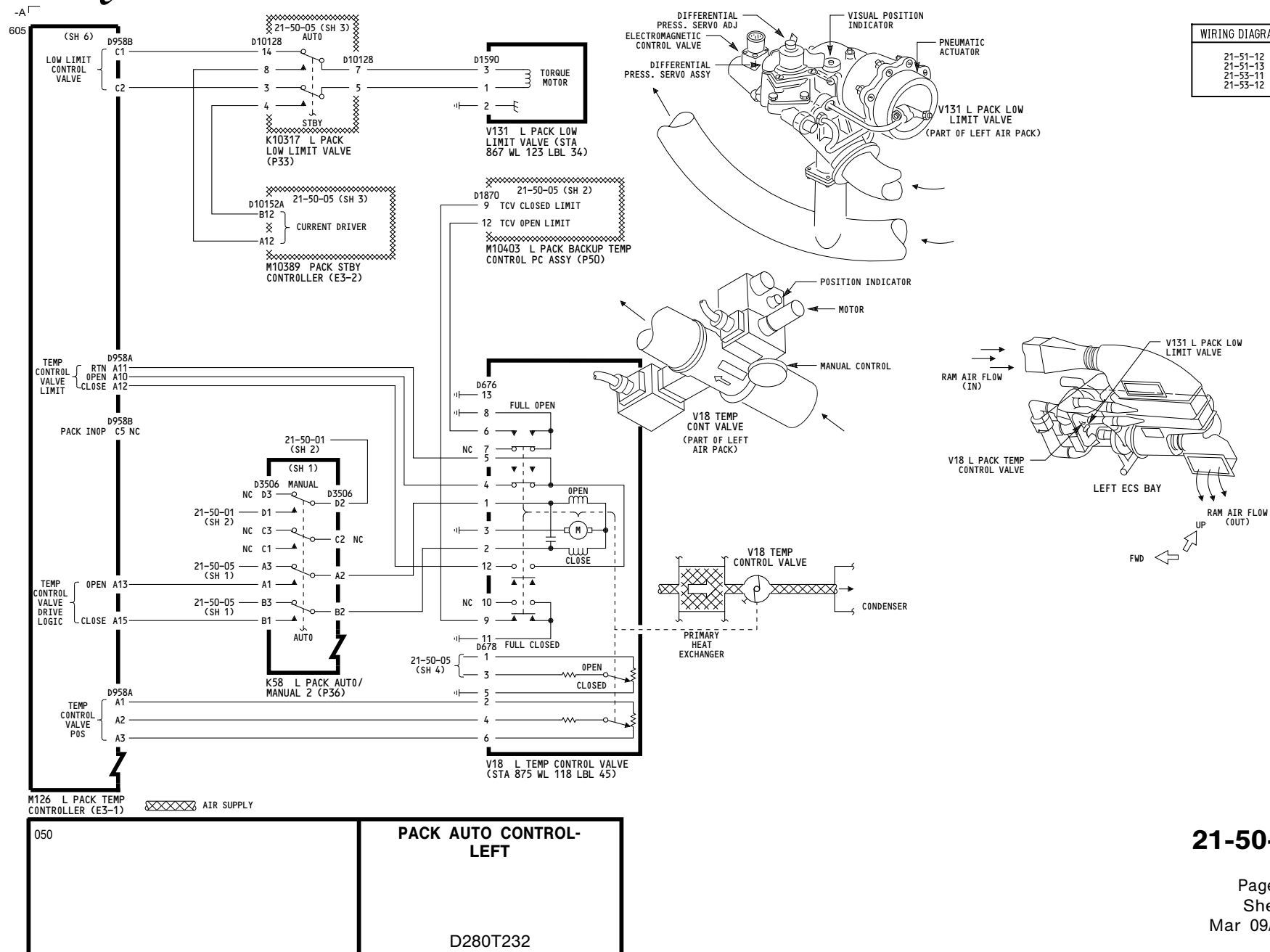
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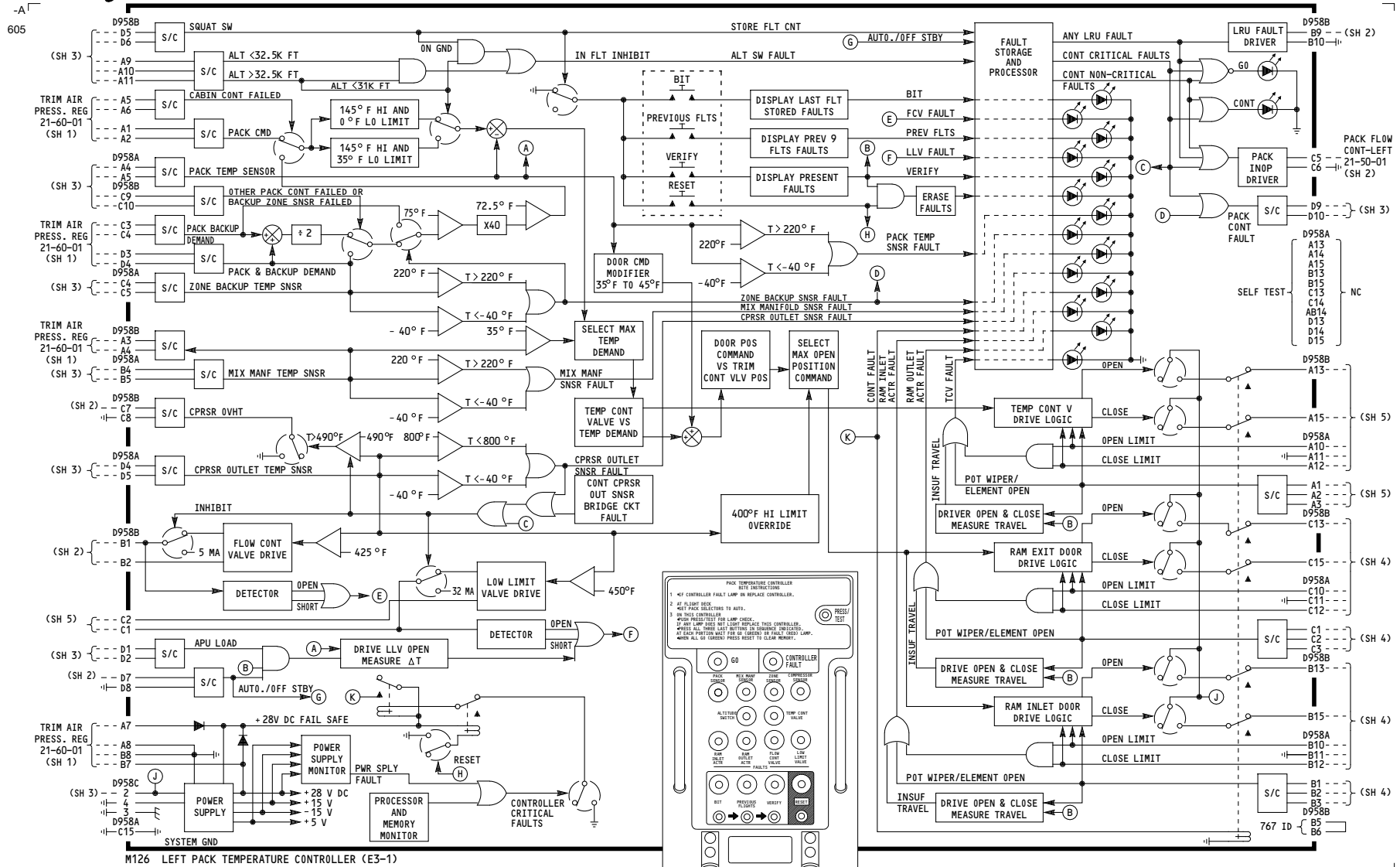
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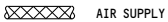
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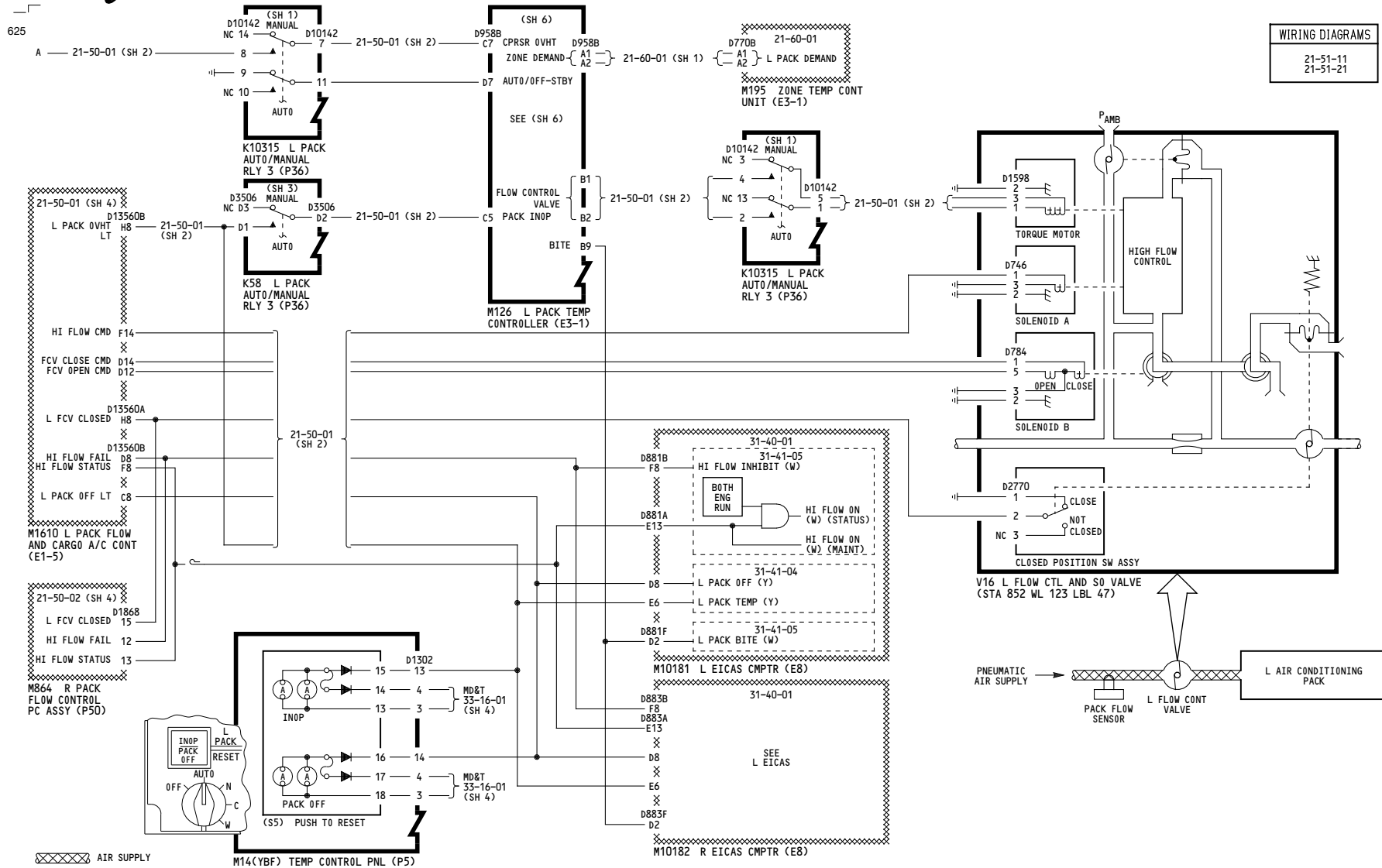
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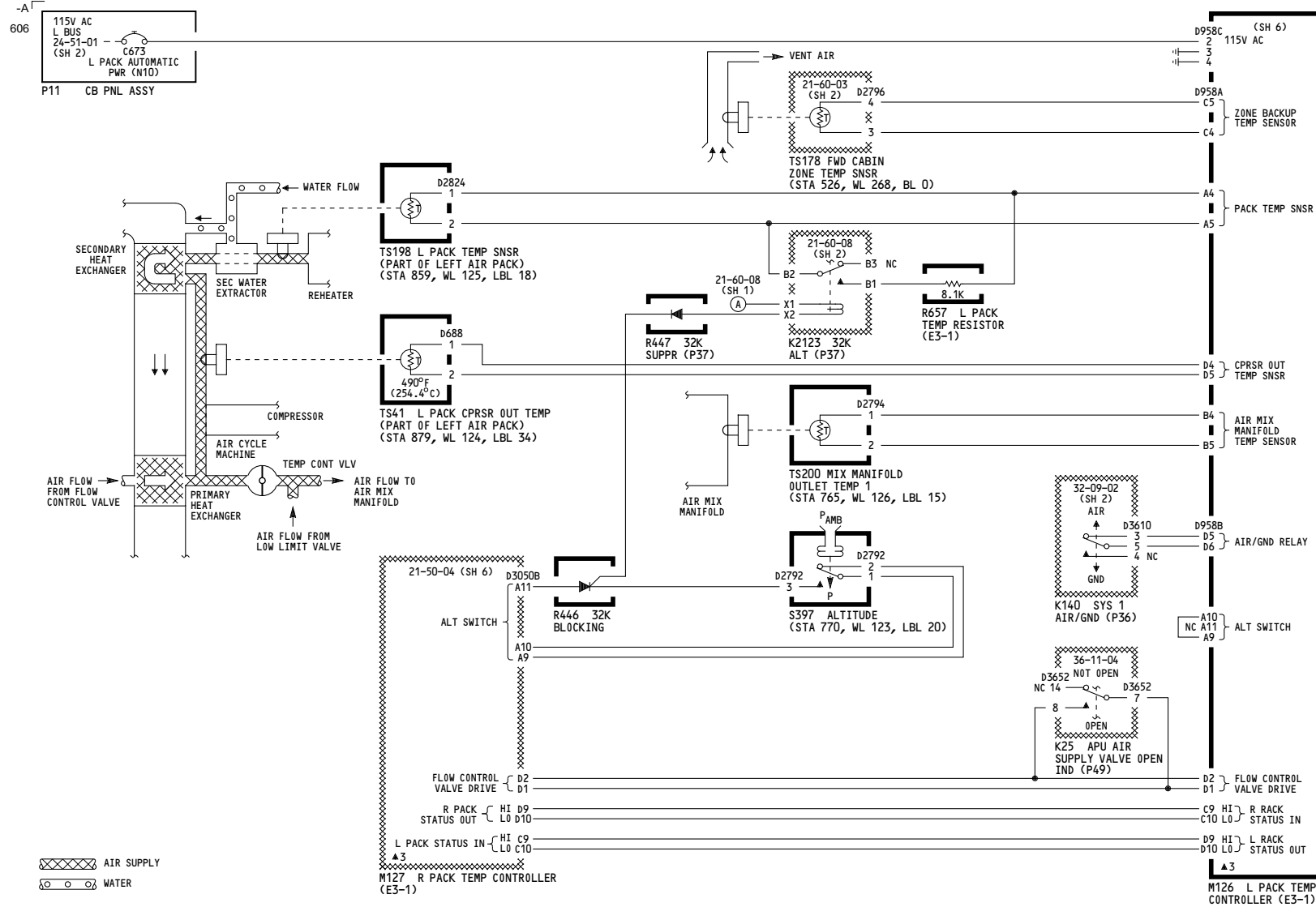
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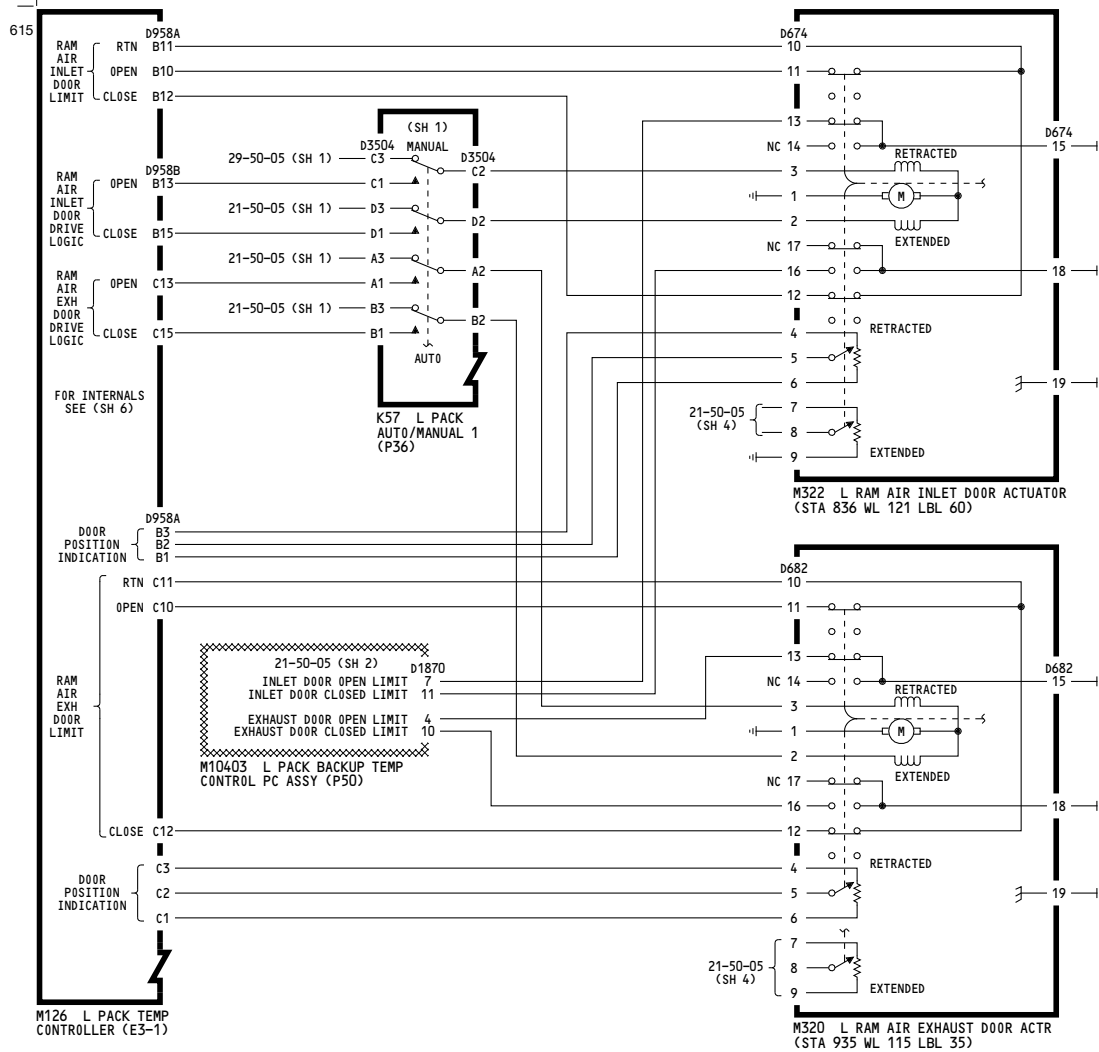
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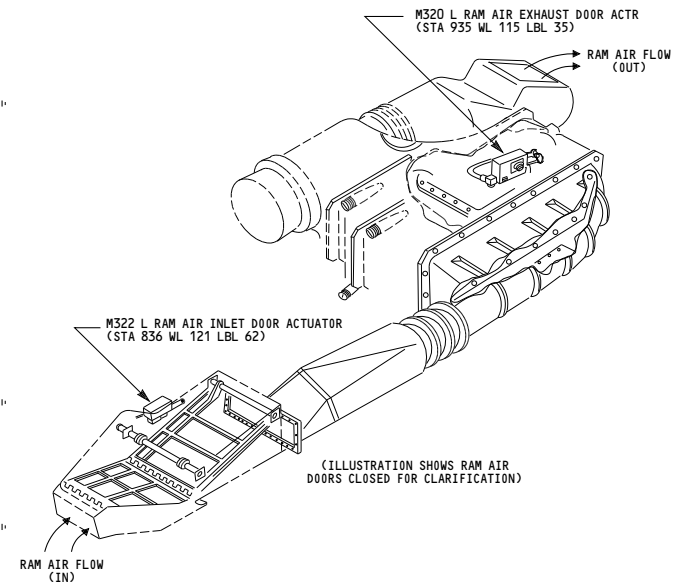
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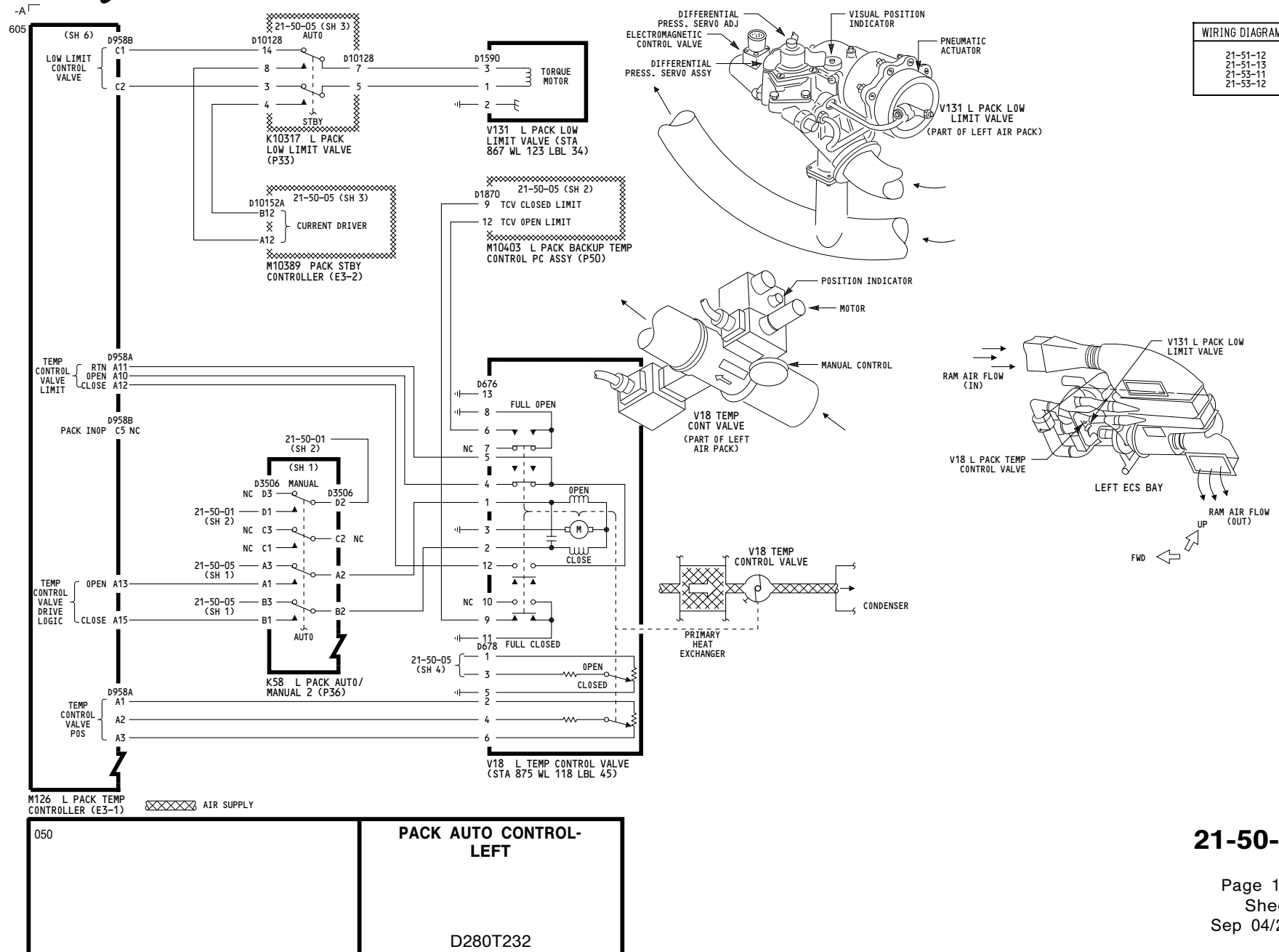
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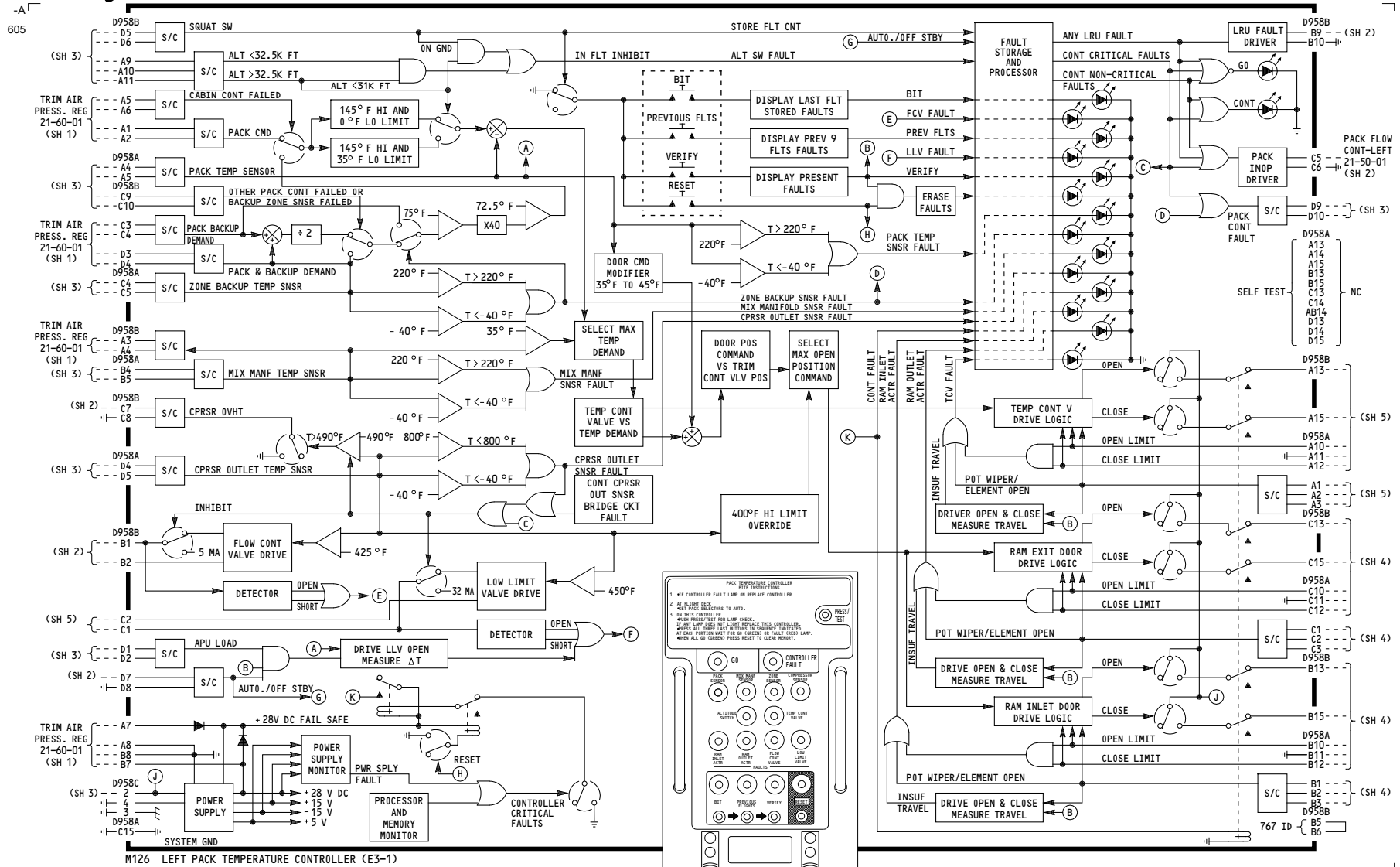
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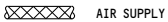
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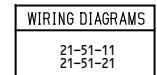
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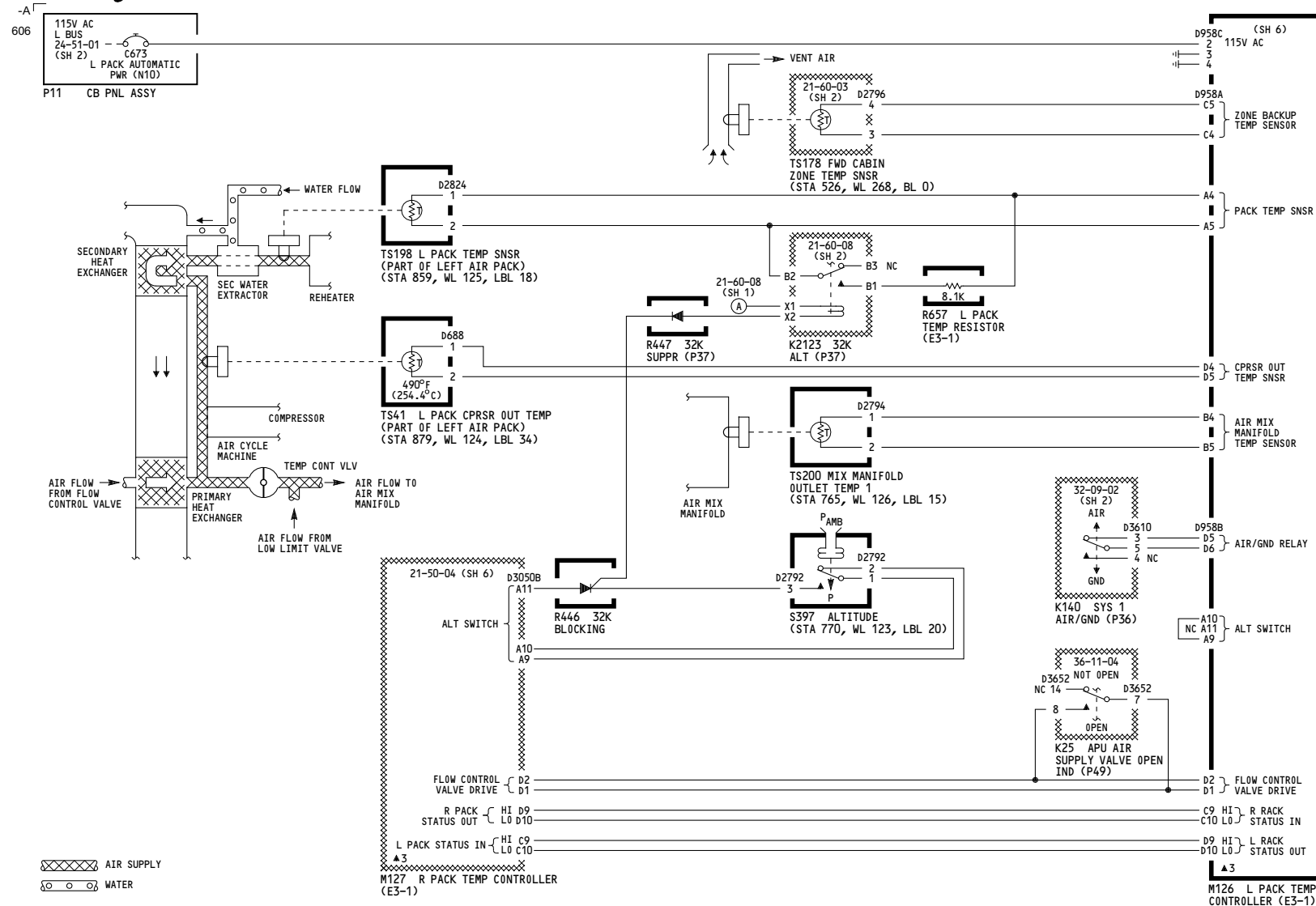
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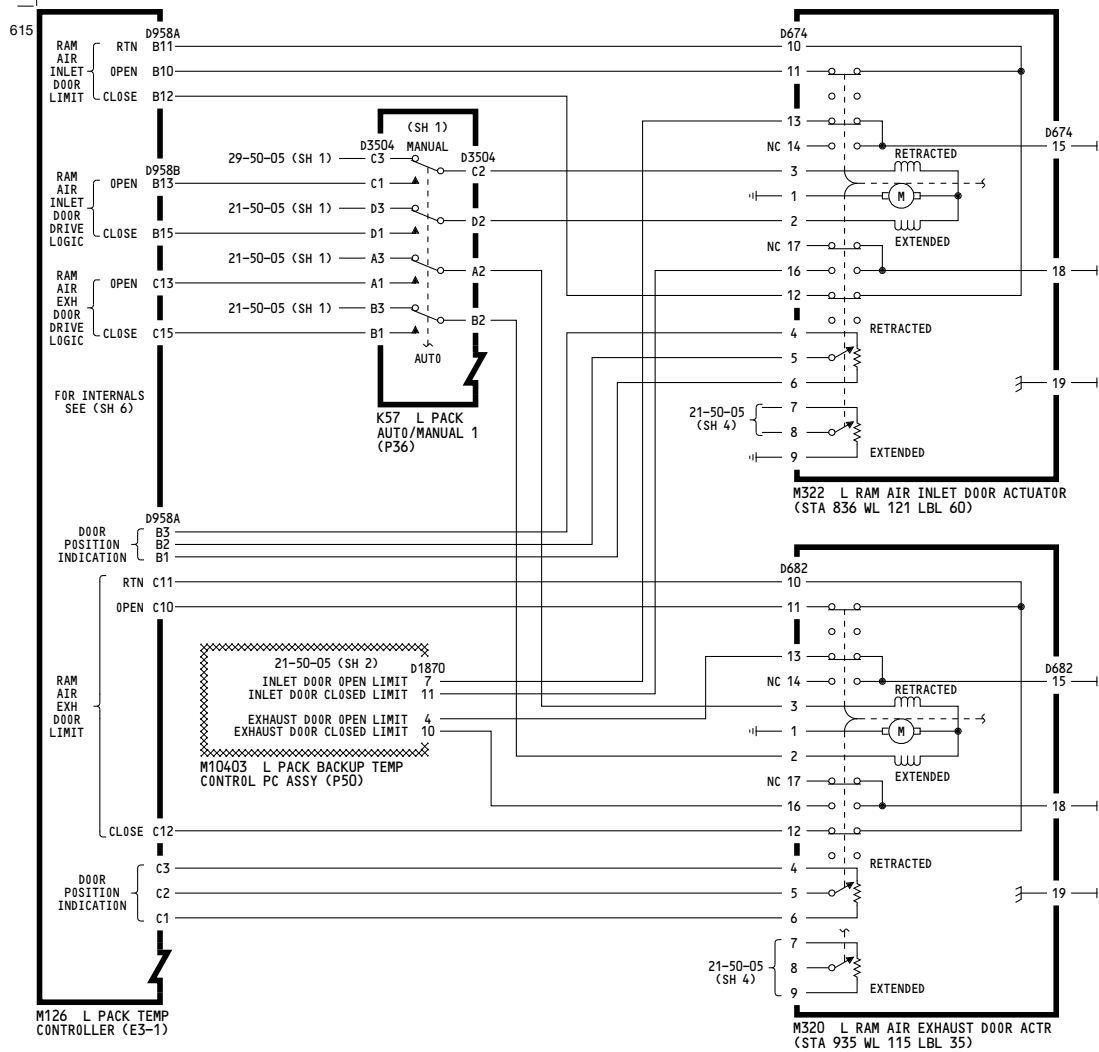
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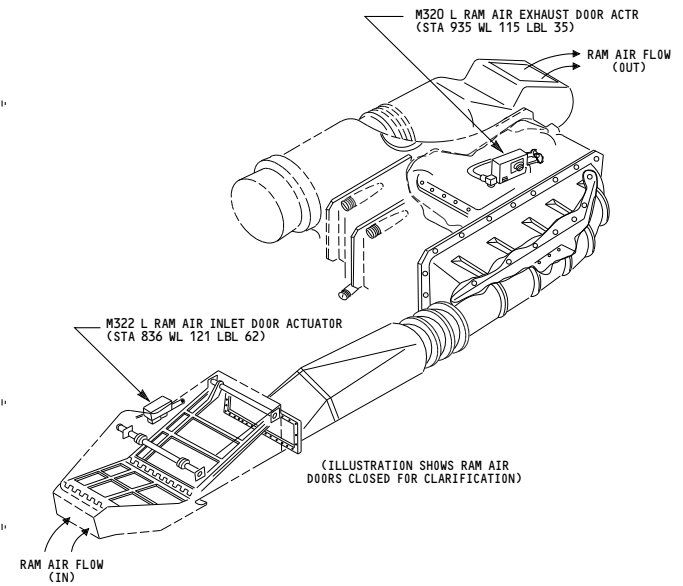
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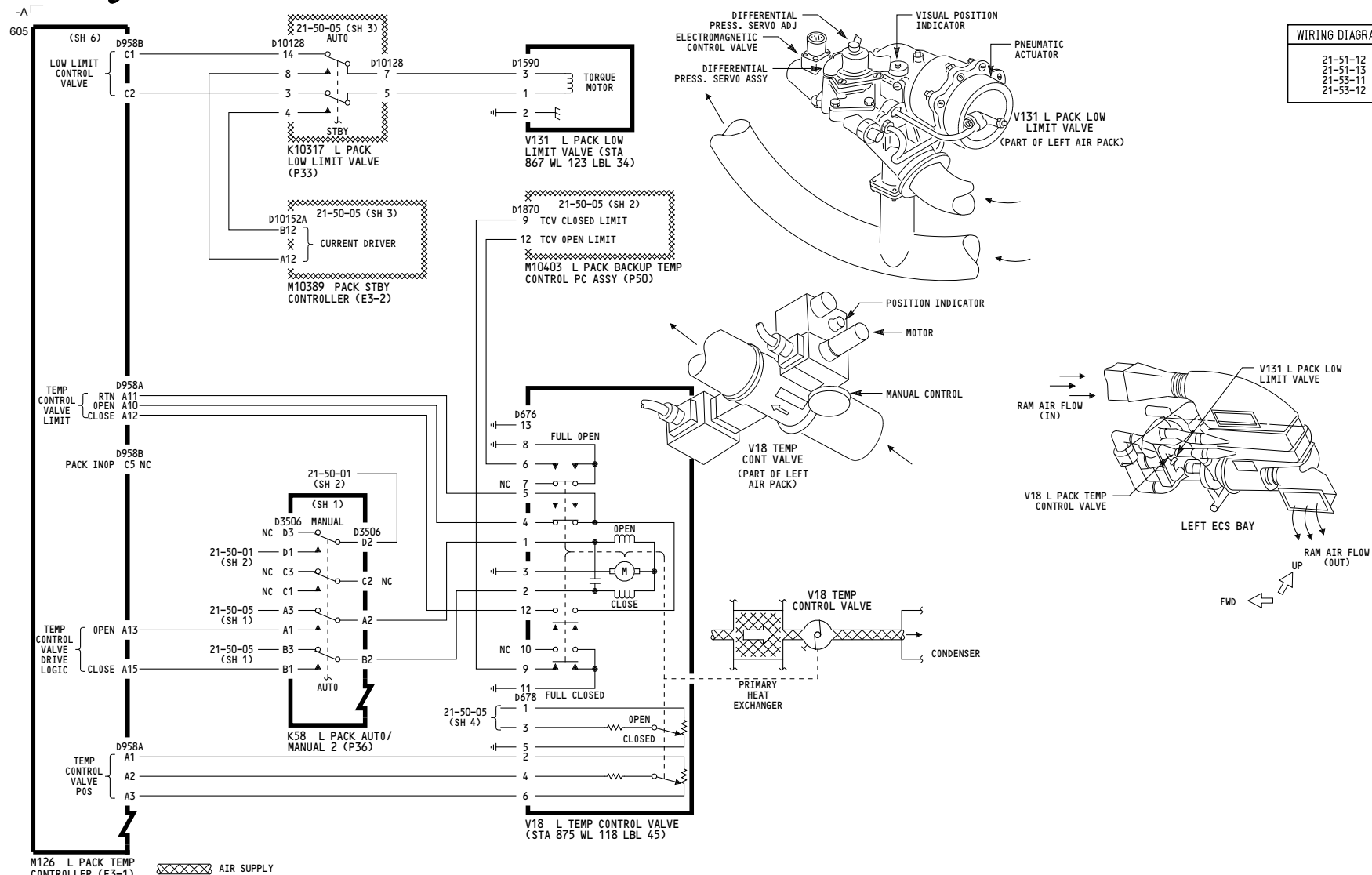
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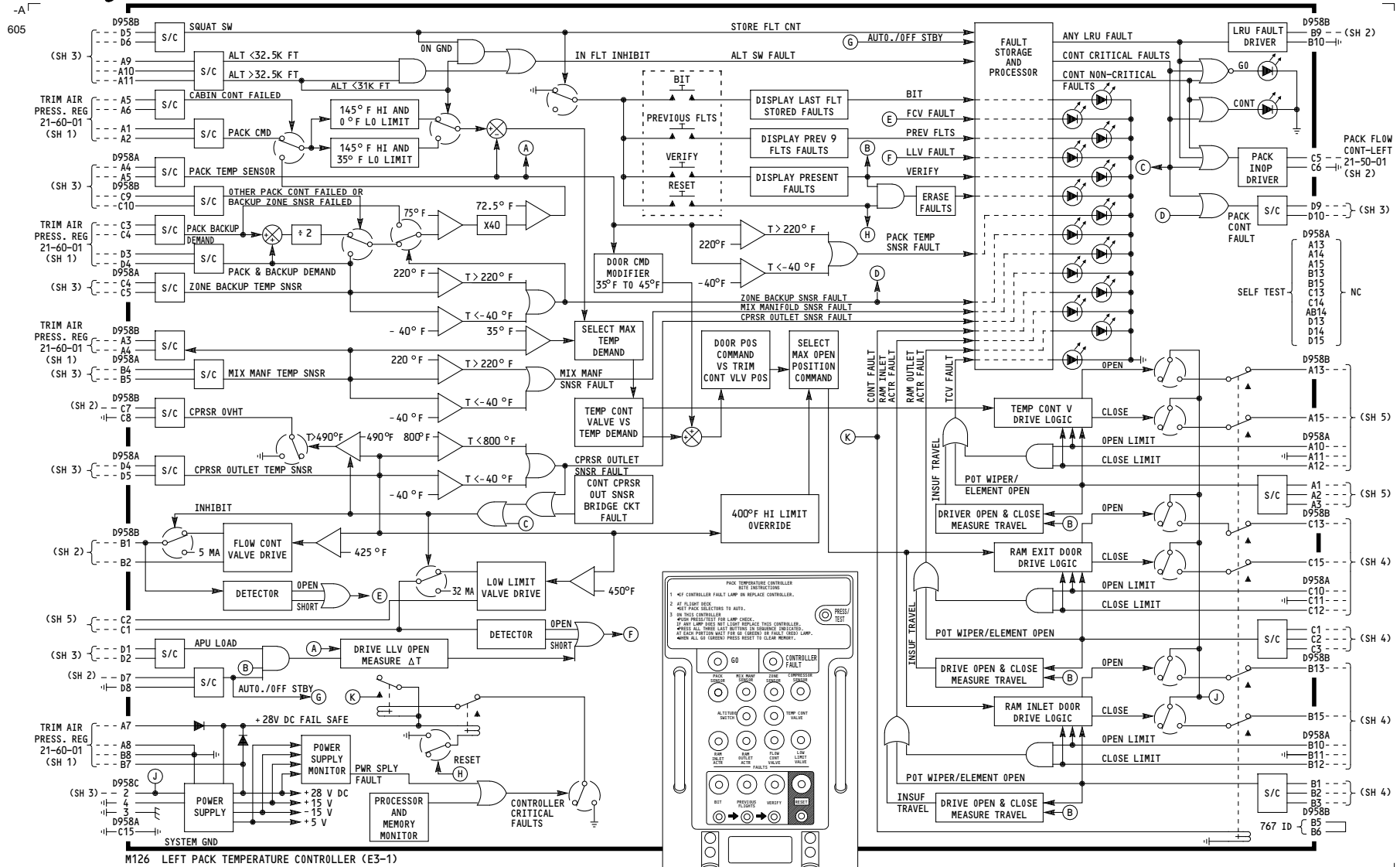
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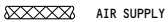
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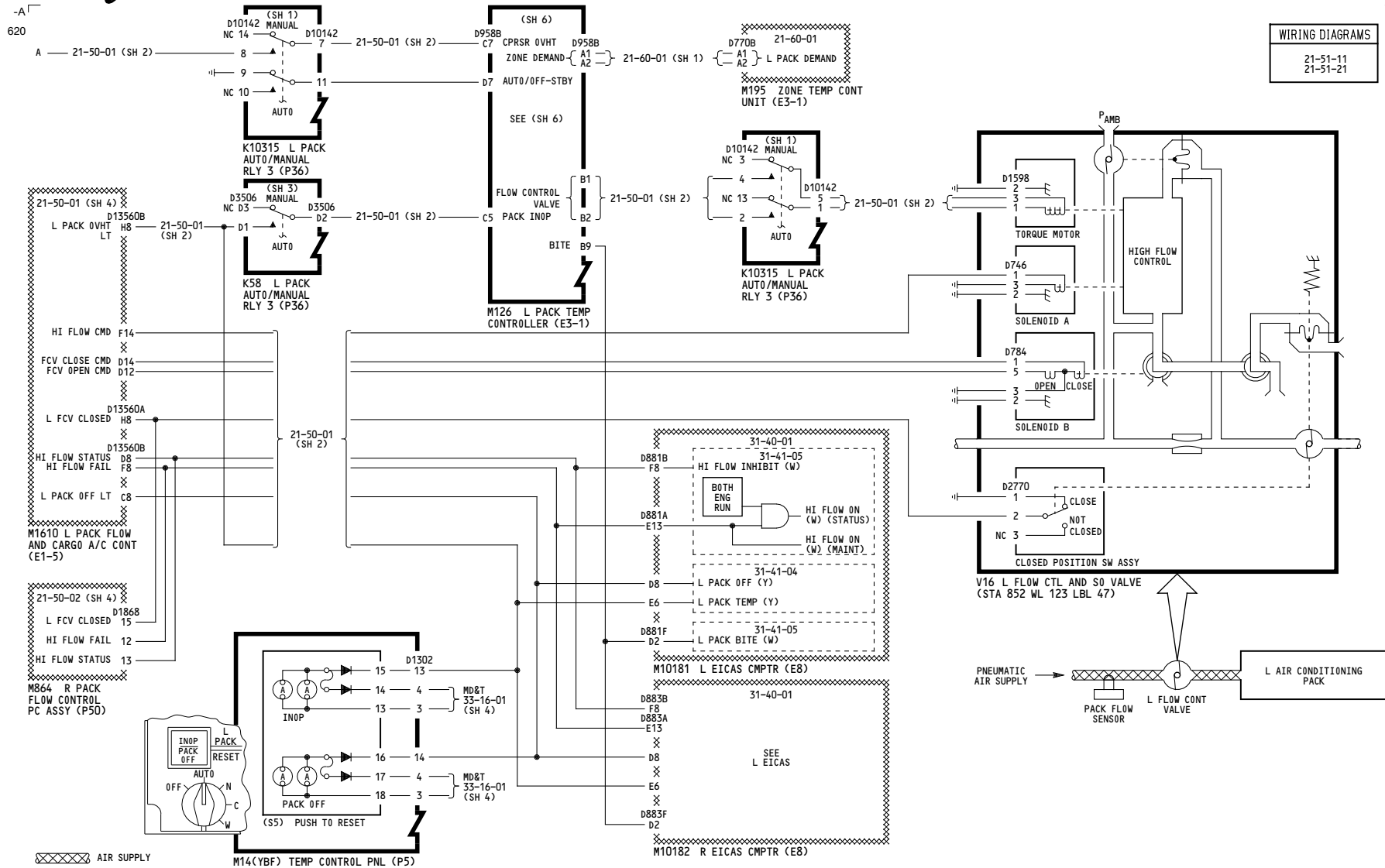
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150-154

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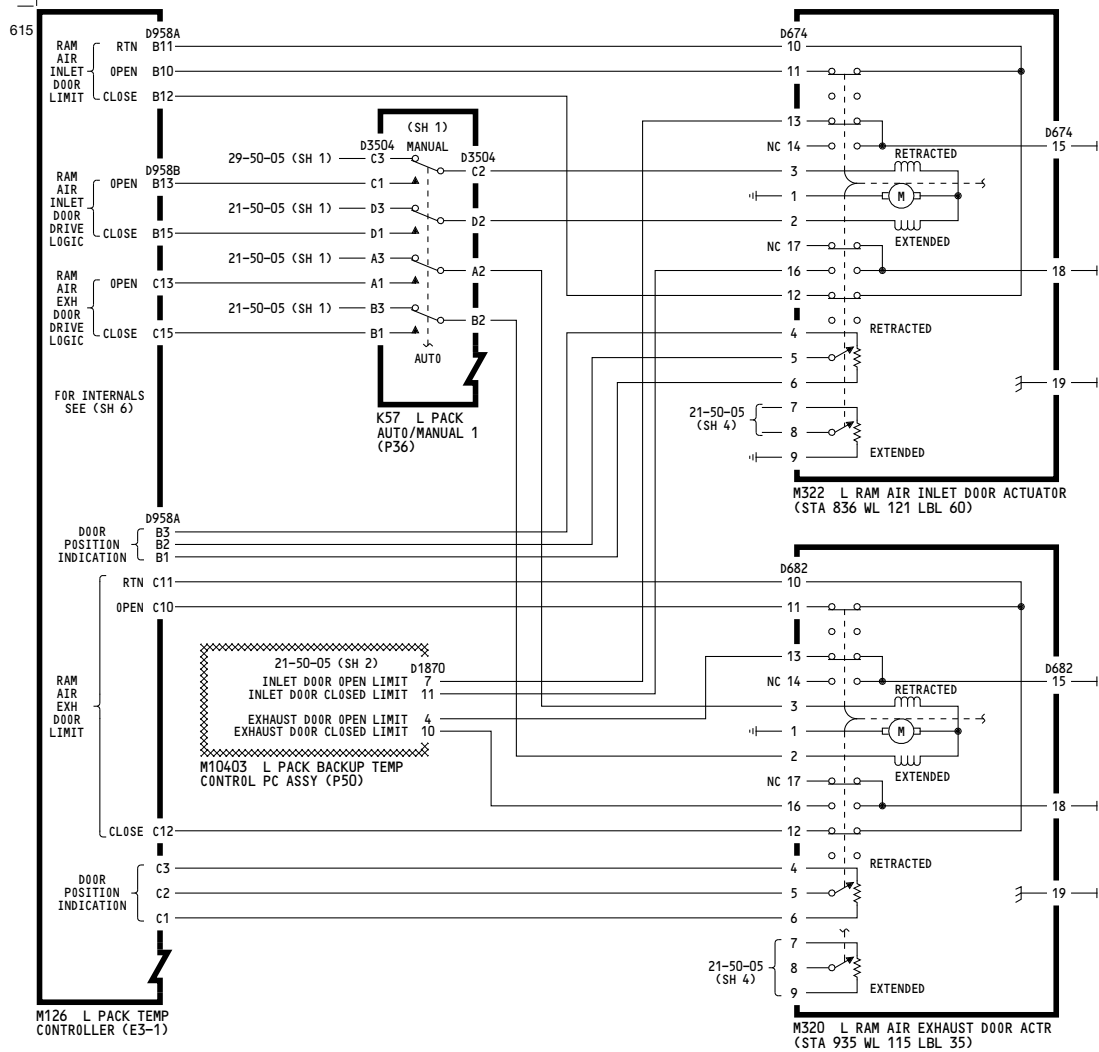
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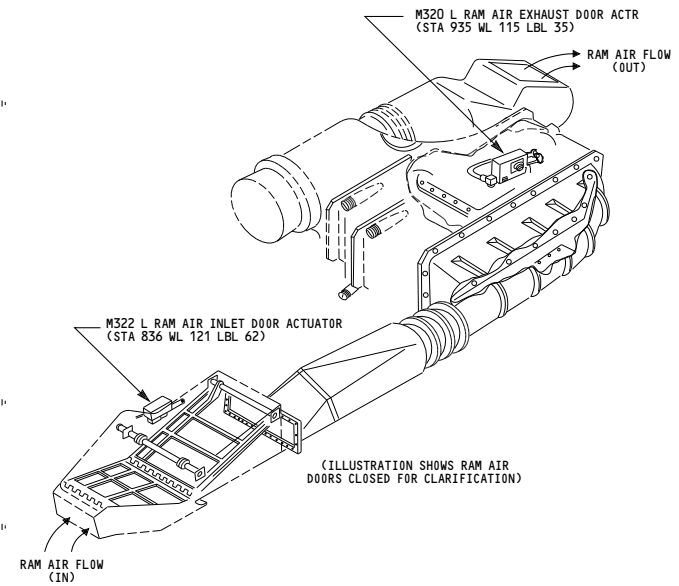
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WIRING DIAGRAMS
21-51-12
21-53-11



NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.



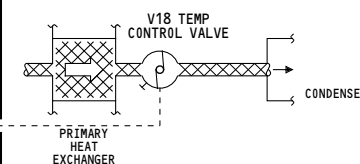
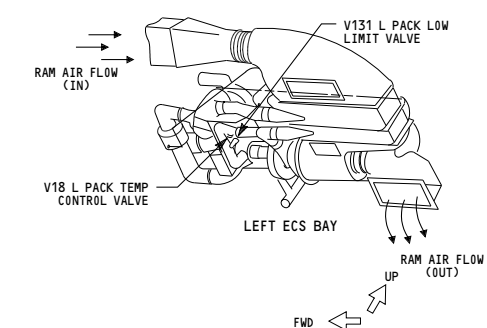
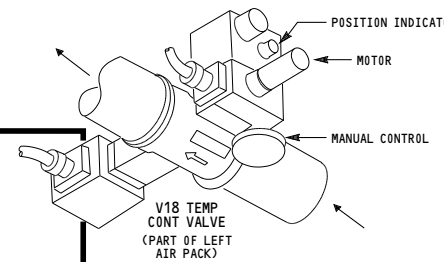
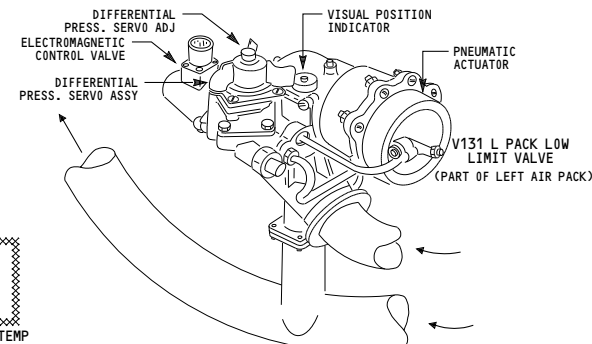
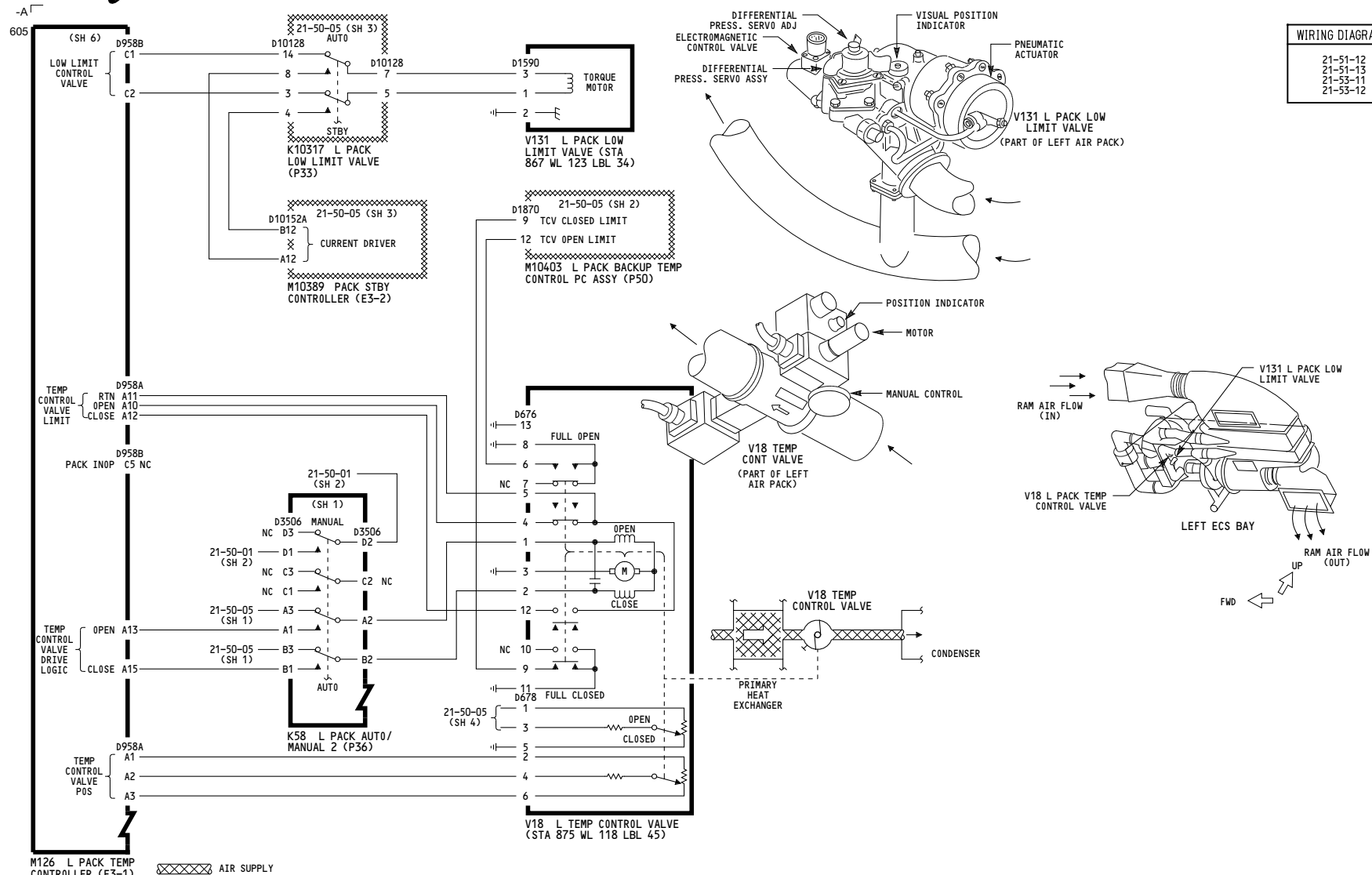
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PACK AUTO CONTROL-LEFT

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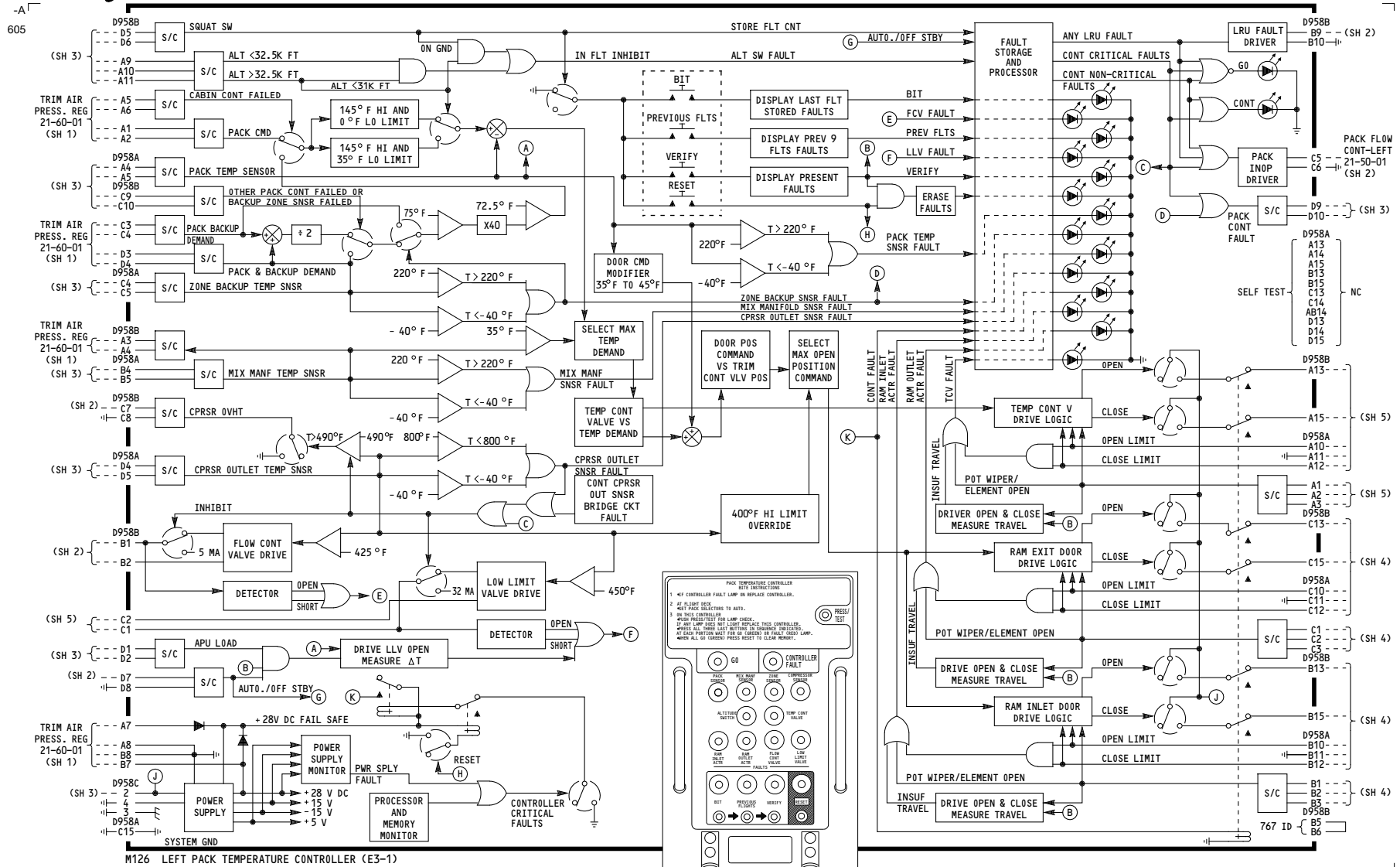
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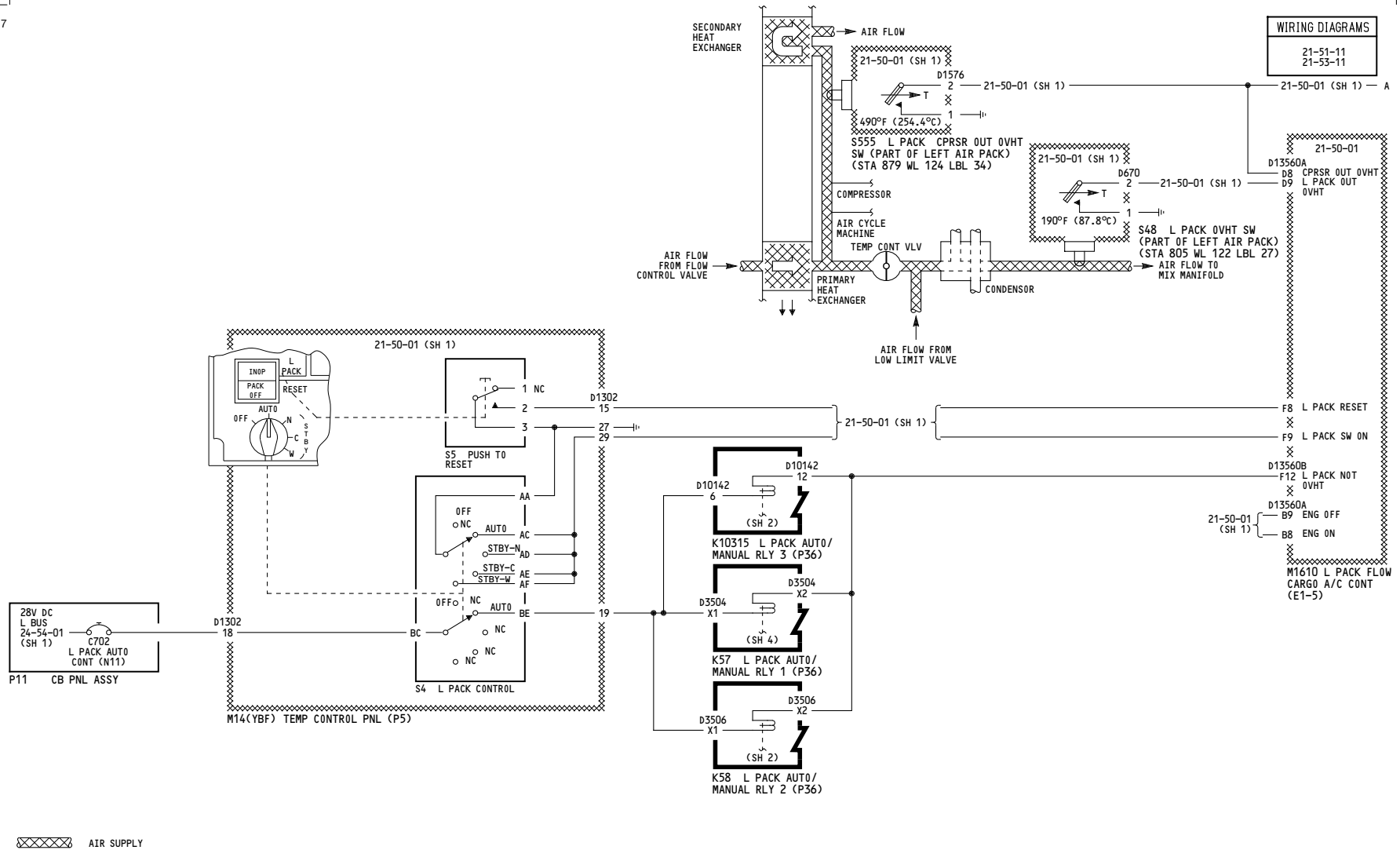
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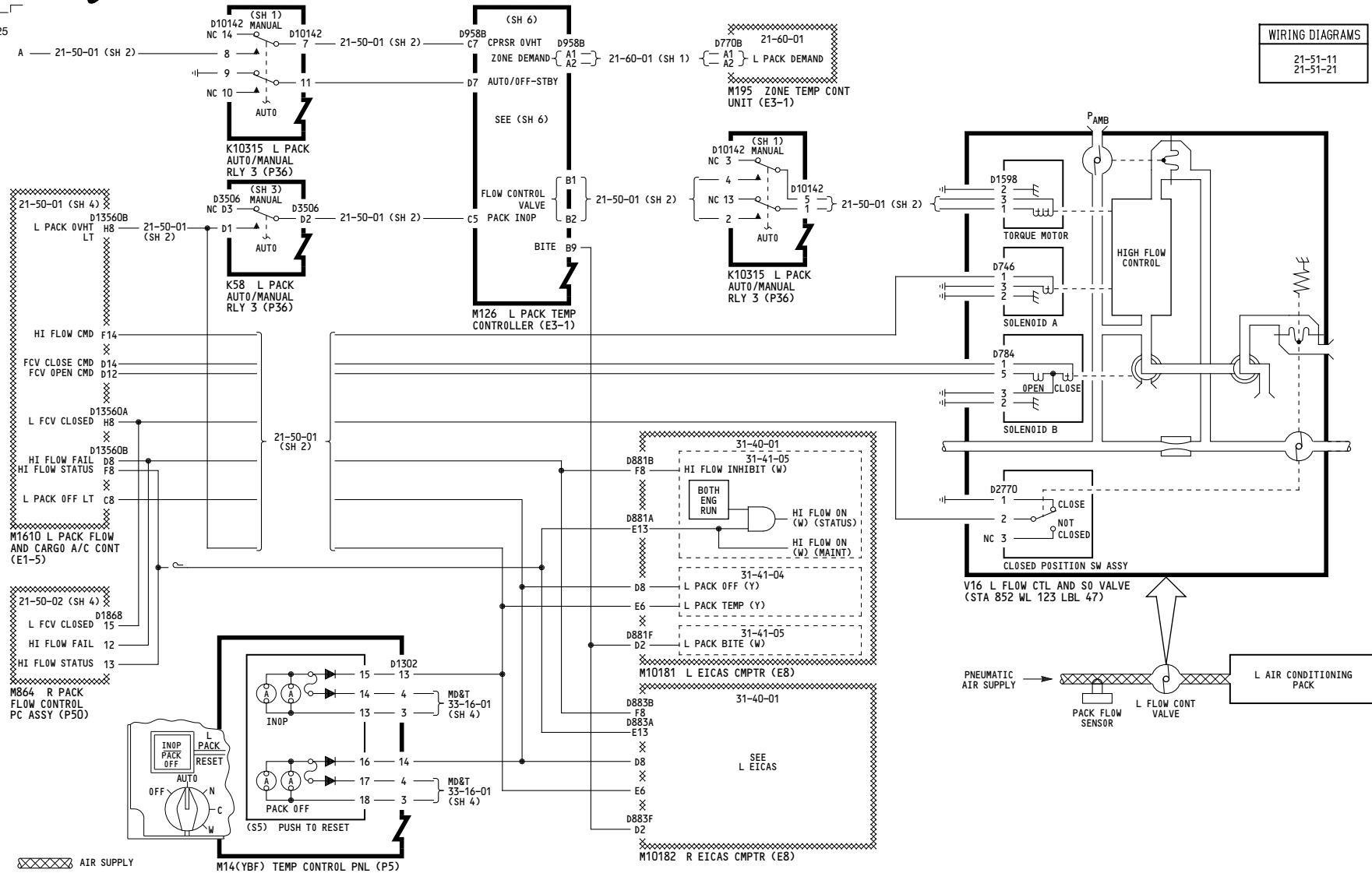
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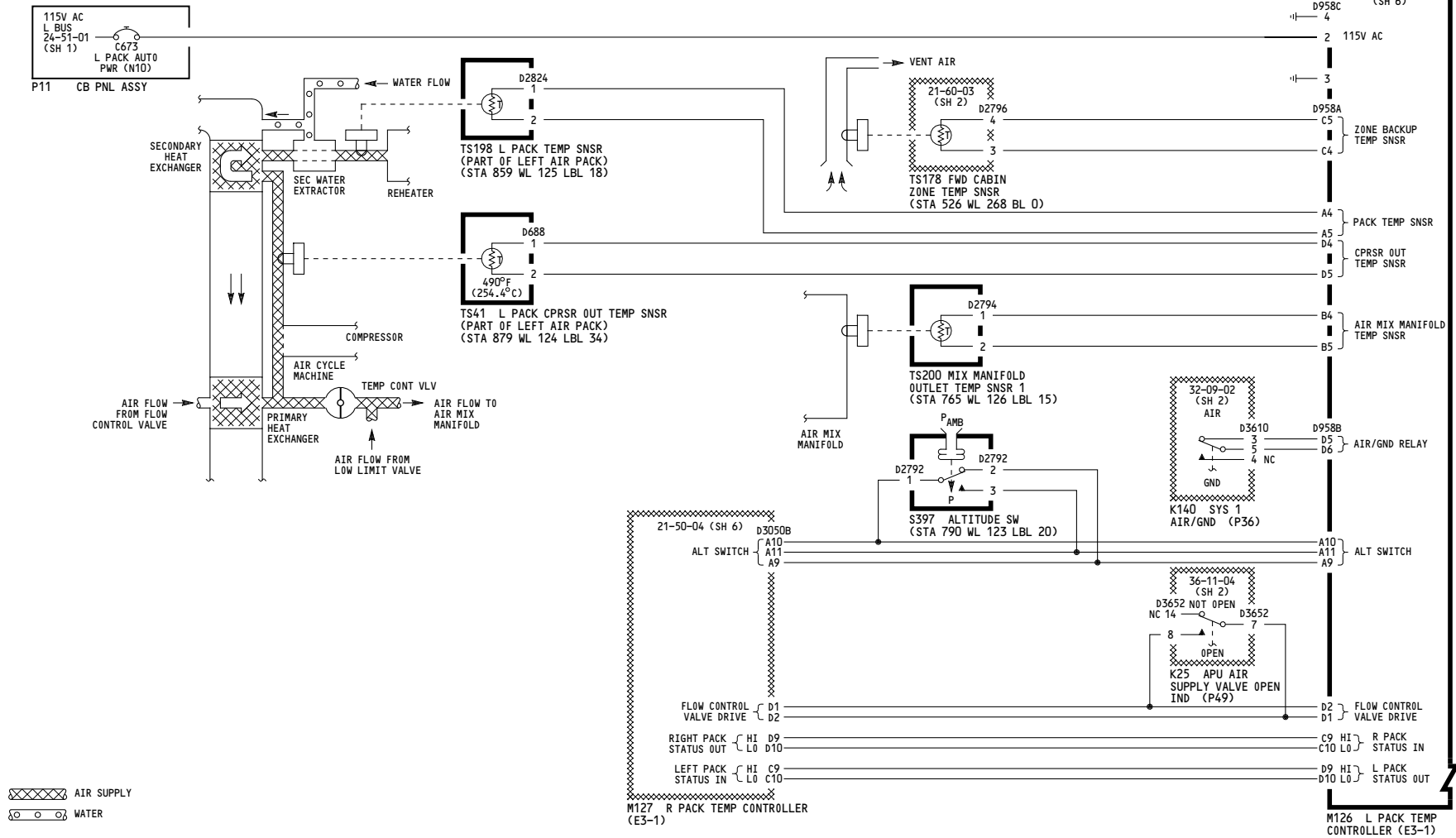
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21-51-12



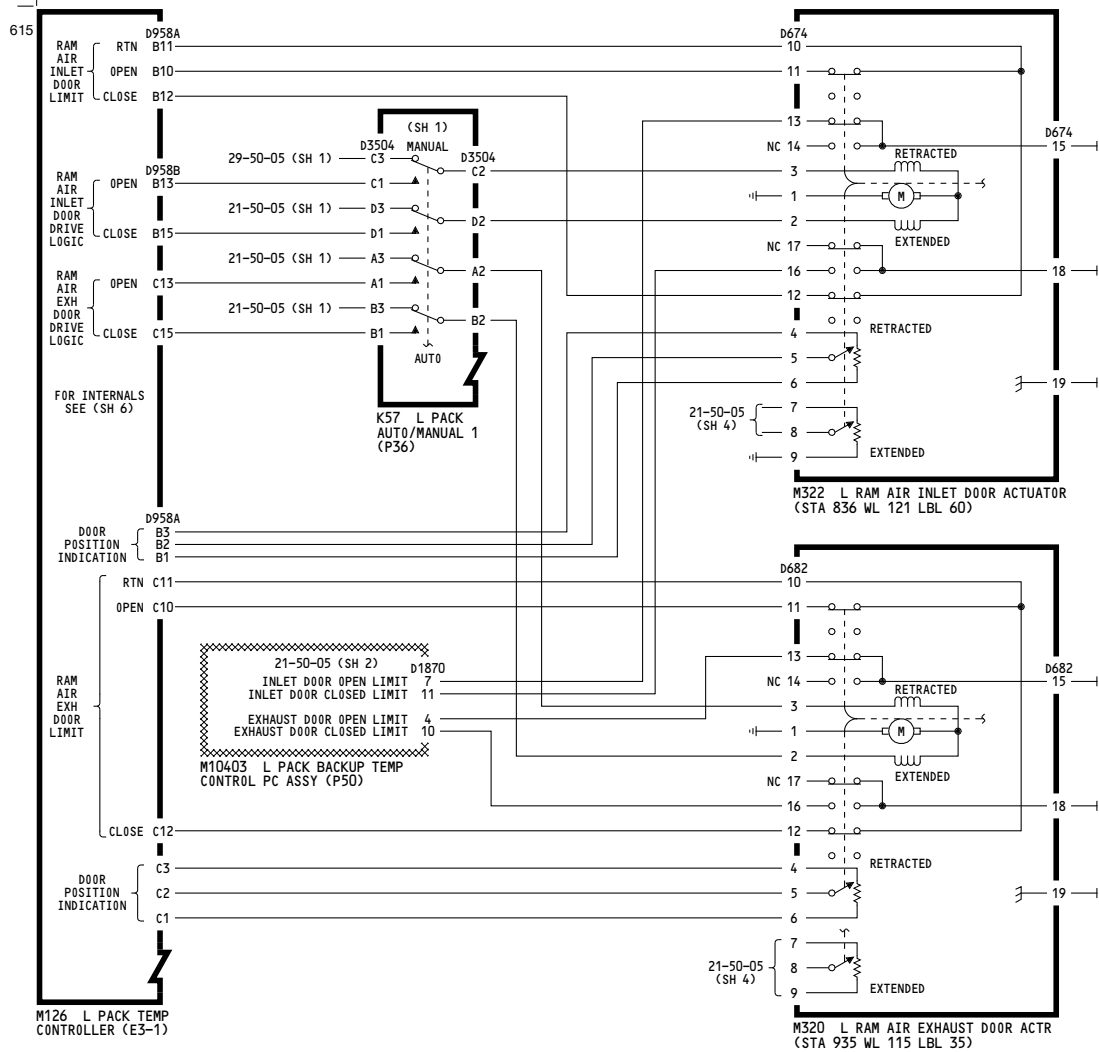
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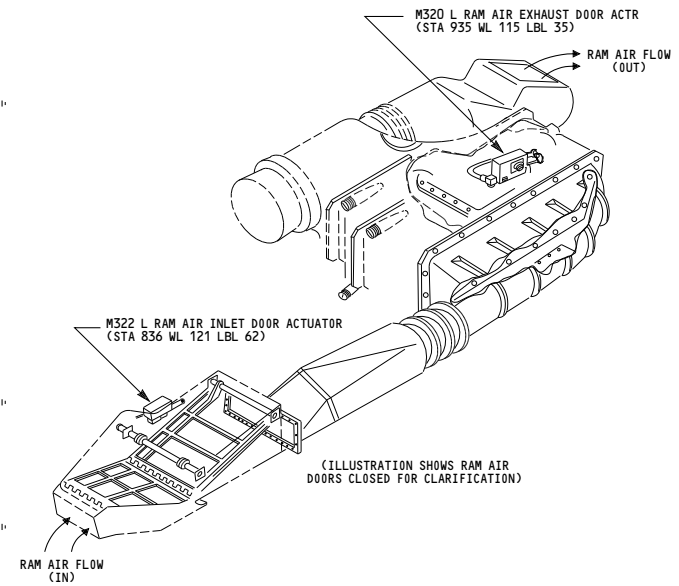
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NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.



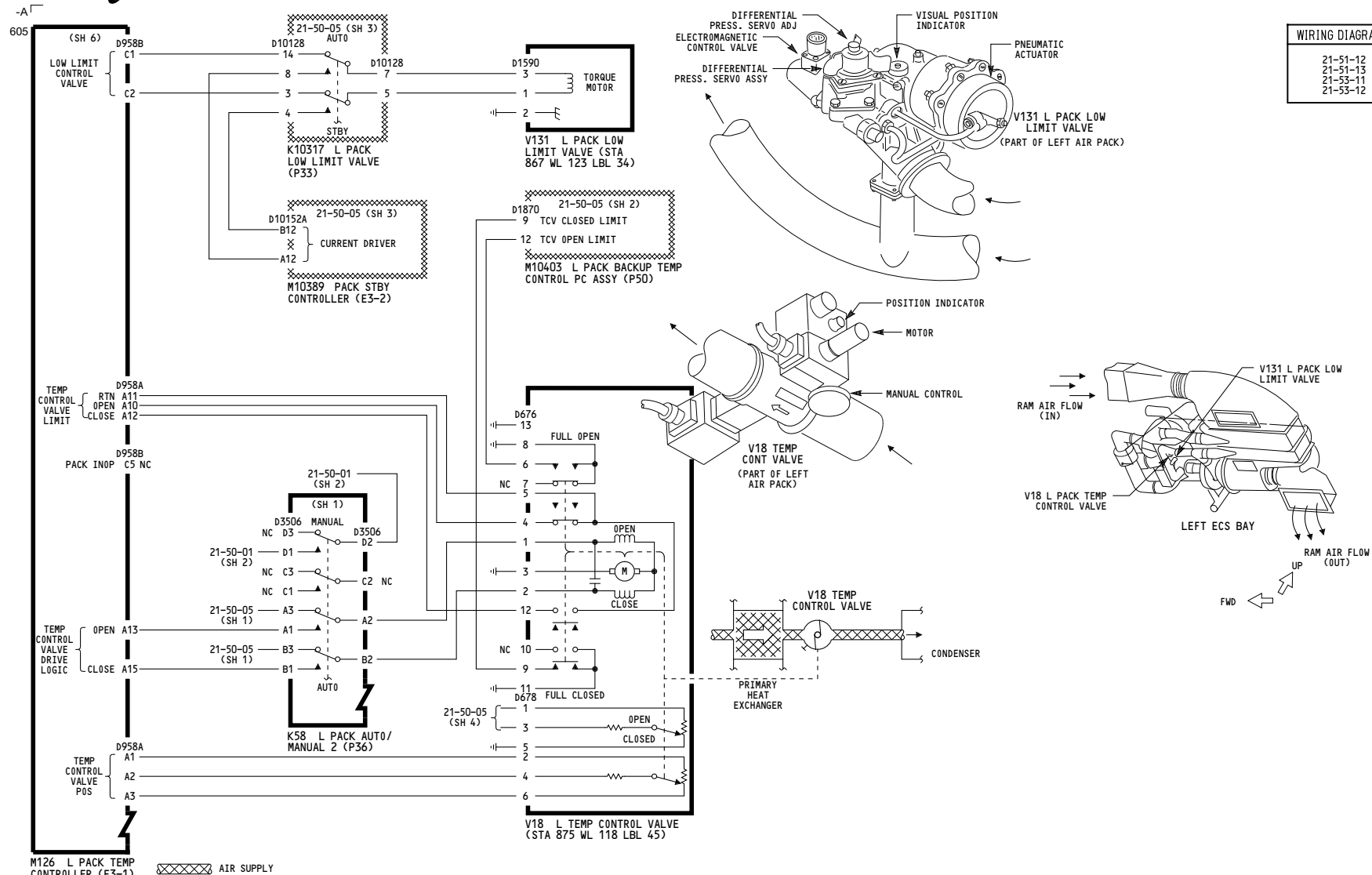
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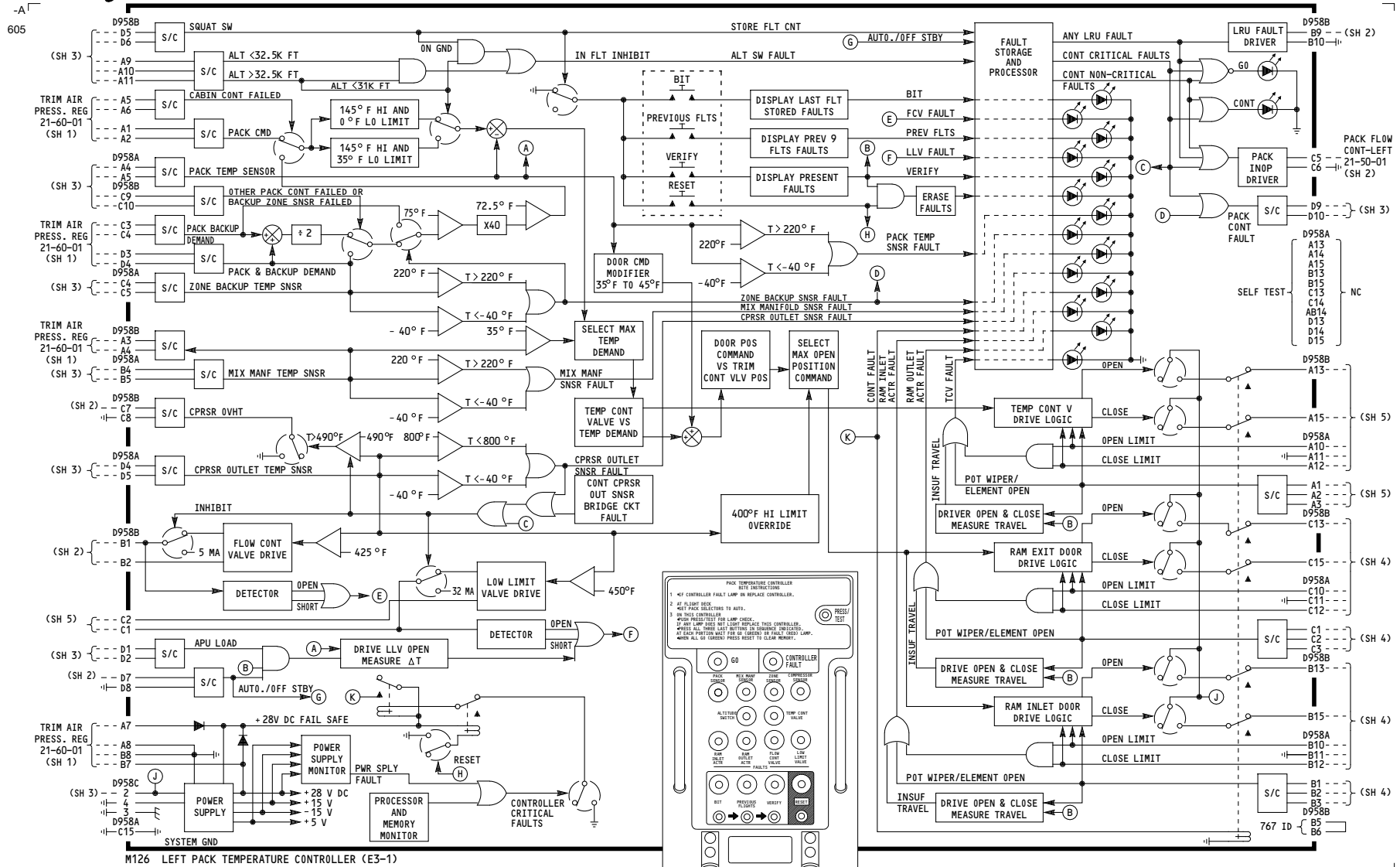
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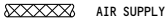
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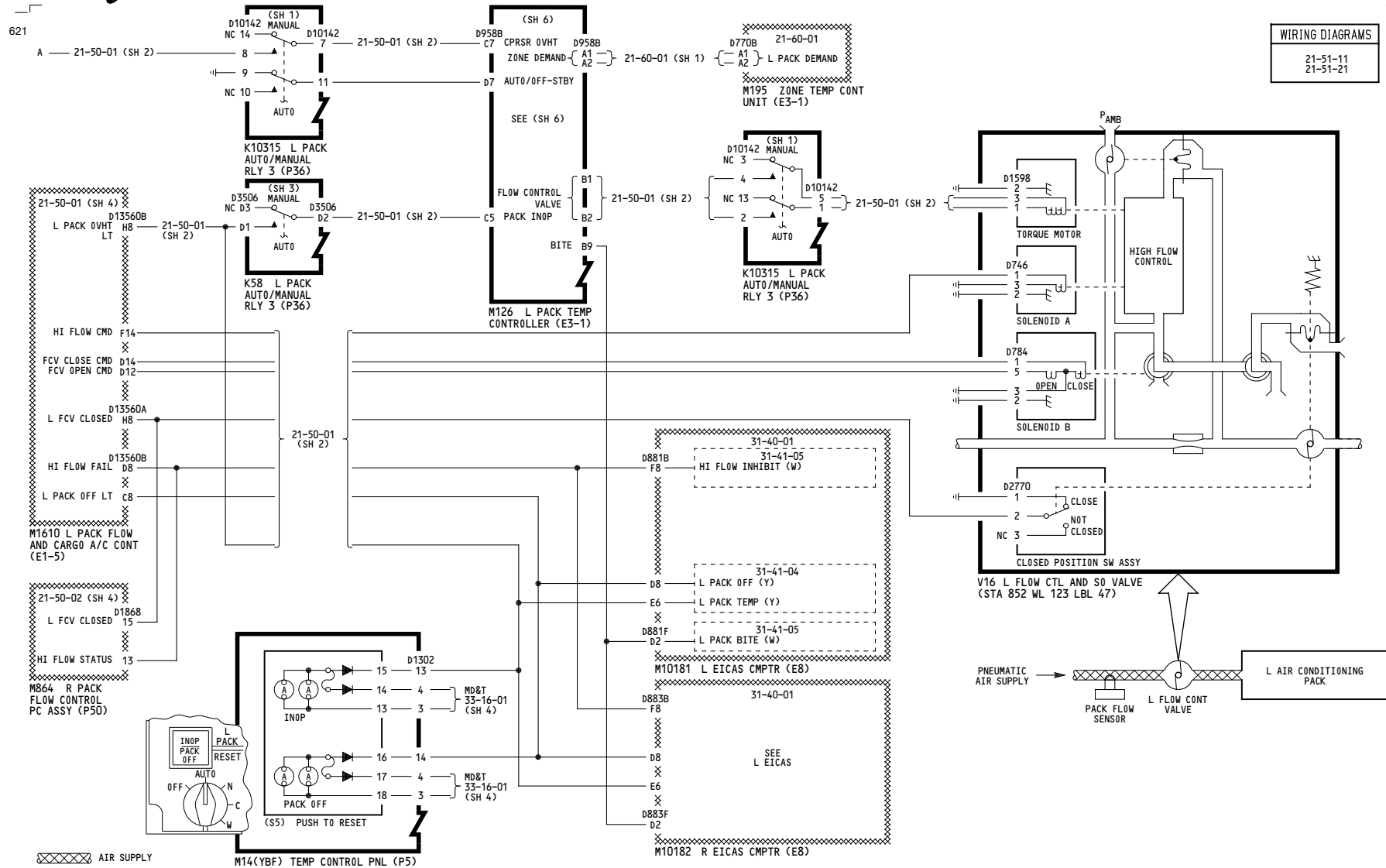
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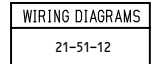
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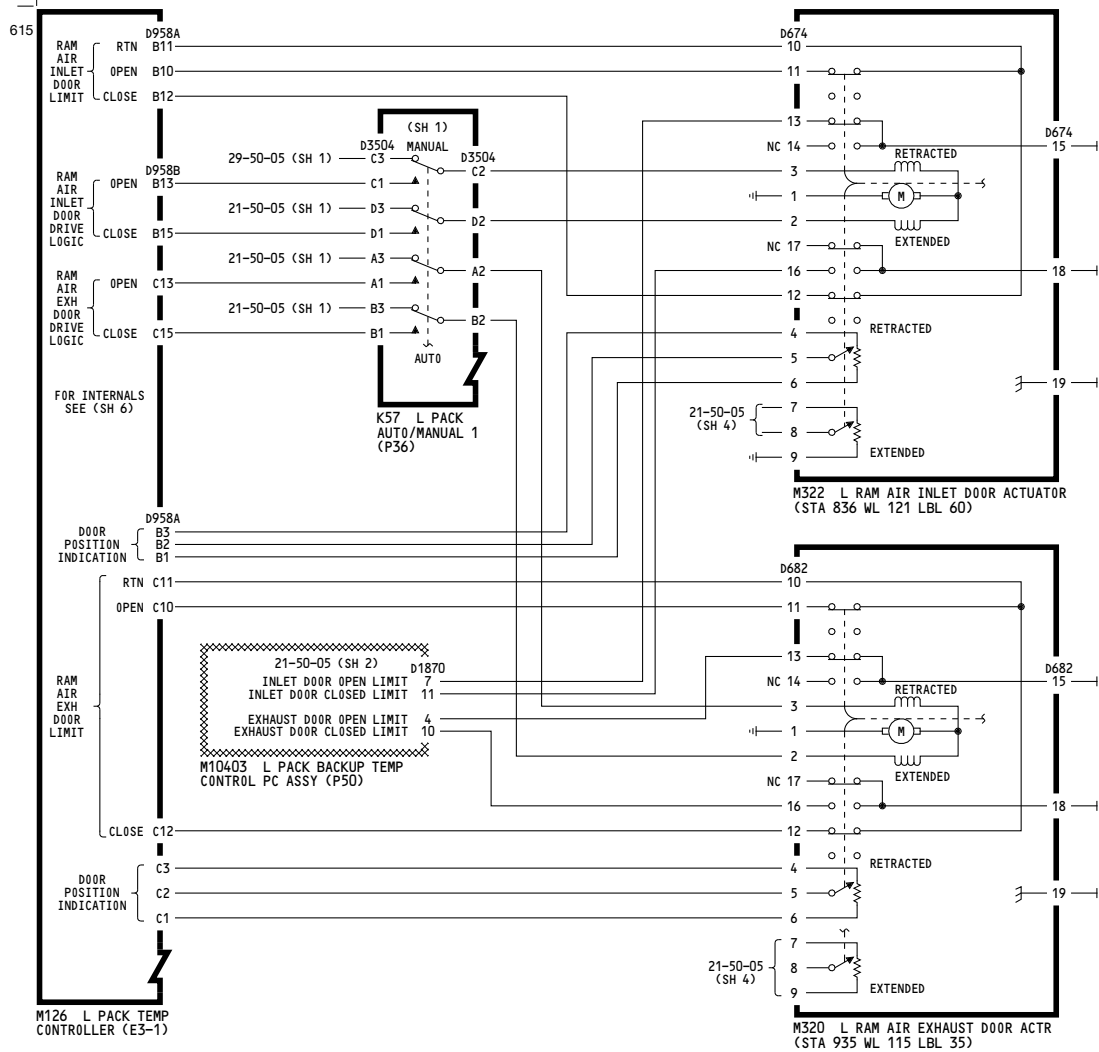
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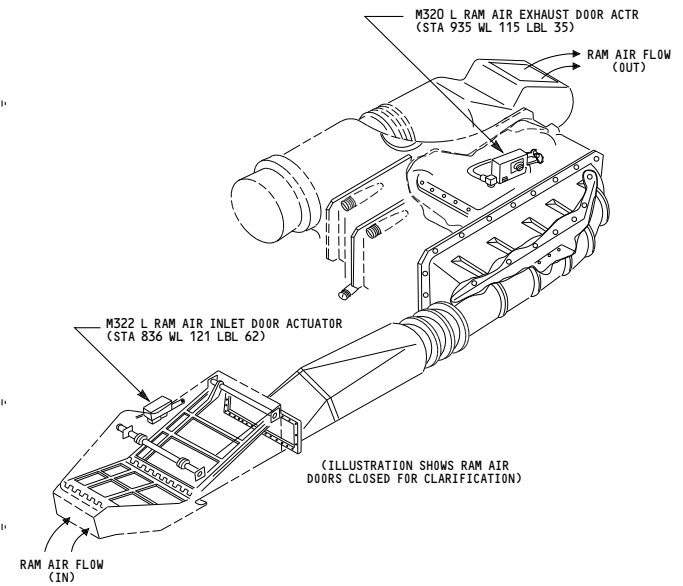


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21-51-12
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NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.



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WIRING DIAGRAMS

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SCHEMATIC OF AIR CYCLE MACHINE:

- SECONDARY HEAT EXCHANGER:** Located at the top left, with **AIR FLOW** indicated.
- COMPRESSOR:** Part of the air cycle machine, with a temperature of **490°F (254.4°C)**.
- AIR CYCLE MACHINE:** The central component, with a temperature of **190°F (87.8°C)**.
- TEMP CONT VLV:** Temperature control valve.
- PRIMARY HEAT EXCHANGER:** Located at the bottom left, with **AIR FLOW FROM FLOW CONTROL VALVE** and **AIR FLOW TO MIX MANIFOLD** indicated.
- CONDENSOR:** Part of the air cycle machine, with **AIR FLOW FROM LOW LIMIT VALVE** indicated.
- S555 L PACK CPRSR OUT OVHT (PART OF LEFT AIR PACK) (STA 879 WL 124 LBL 34):** Overheat sensor for the compressor outlet.
- S48 L PACK OVHT (PART OF LEFT AIR PACK) (STA 819 WL 125 LBL 26):** Overheat sensor for the air pack.

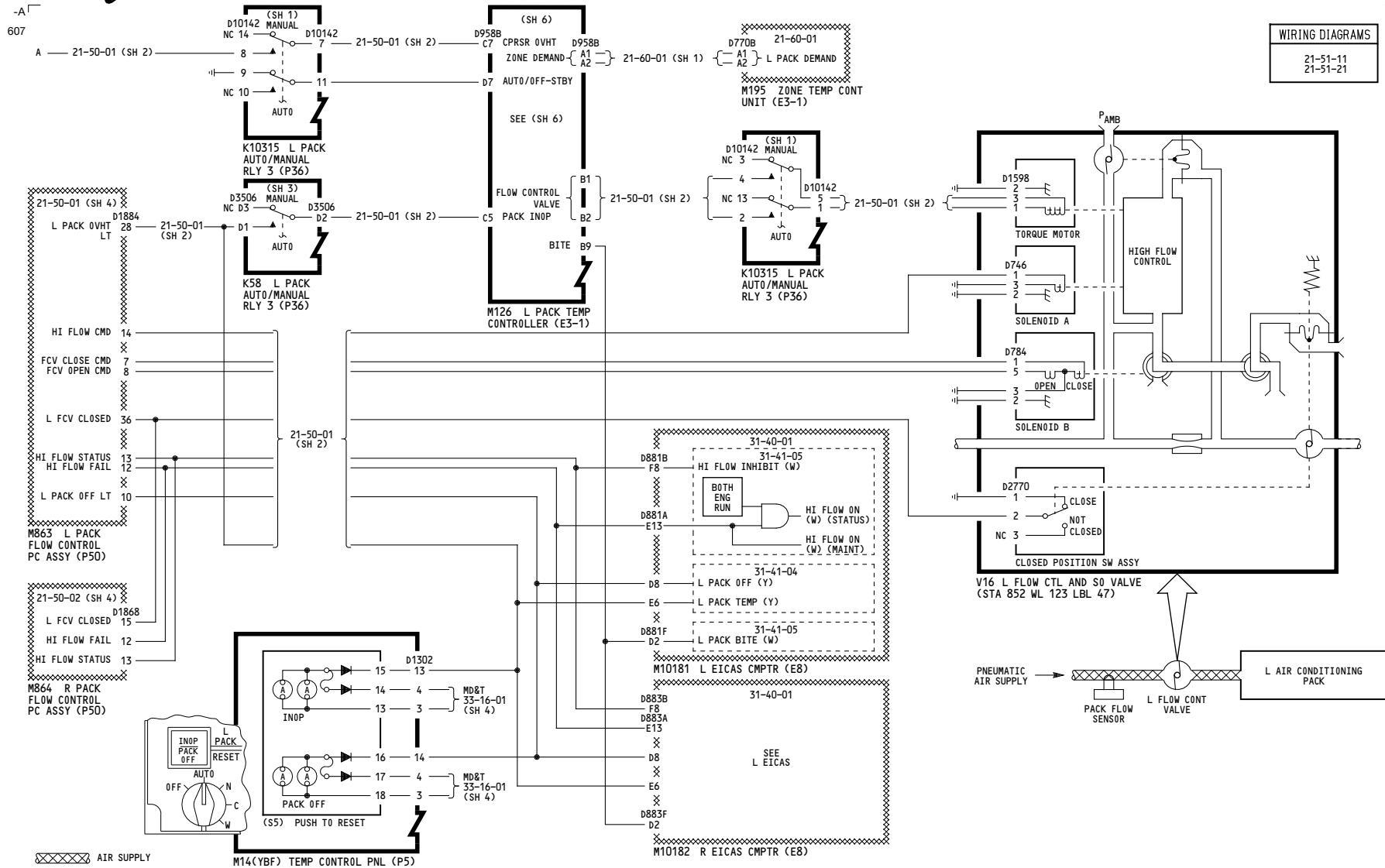
WIRING DIAGRAM:

The wiring diagram shows the electrical connections for the air conditioning system. It includes the following components and connections:

- 21-50-01 (SH 1):** Main power line for the system.
- 21-50-01 (SH 1) — A:** Connection to the compressor.
- 21-50-01 (SH 1) — B:** Connection to the air pack.
- 21-50-01 (SH 4):** Connection to the air pack.
- D1576:** Temperature sensor for the compressor outlet.
- D670:** Temperature sensor for the air pack.
- D13560A:** Overheat sensor for the compressor outlet.
- D8 CPRSR OUT OVHT L PACK OUT:** Overheat sensor for the compressor outlet.
- F8 L PACK RESET:** Reset button for the air pack.
- F9 L PACK SW ON:** Switch for the air pack.
- D13560B:** Overheat sensor for the air pack.
- F12 L PACK NOT OVHT:** Not overheat sensor for the air pack.
- D13560A:** Overheat sensor for the air pack.
- B8 ENG ON:** Engine on signal.
- B9 ENG OFF:** Engine off signal.
- M1610 PACK FLOW & CARGO A/C CONTROLLER (E1-5):** Main controller for the air conditioning system.

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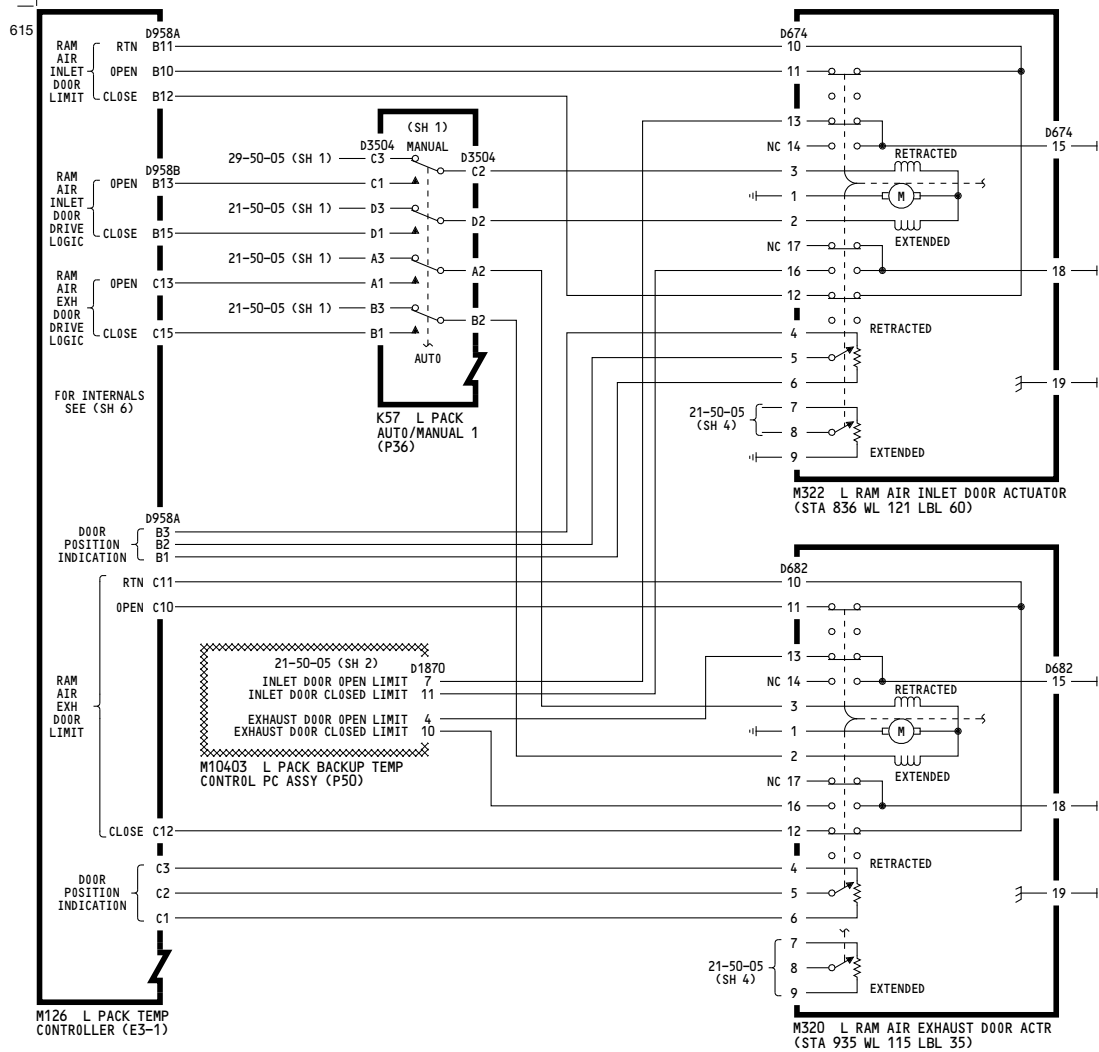
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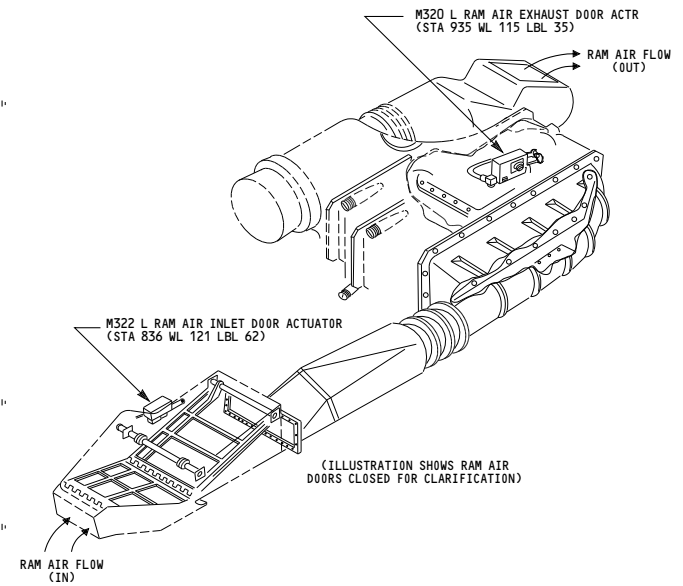
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NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.



275-276

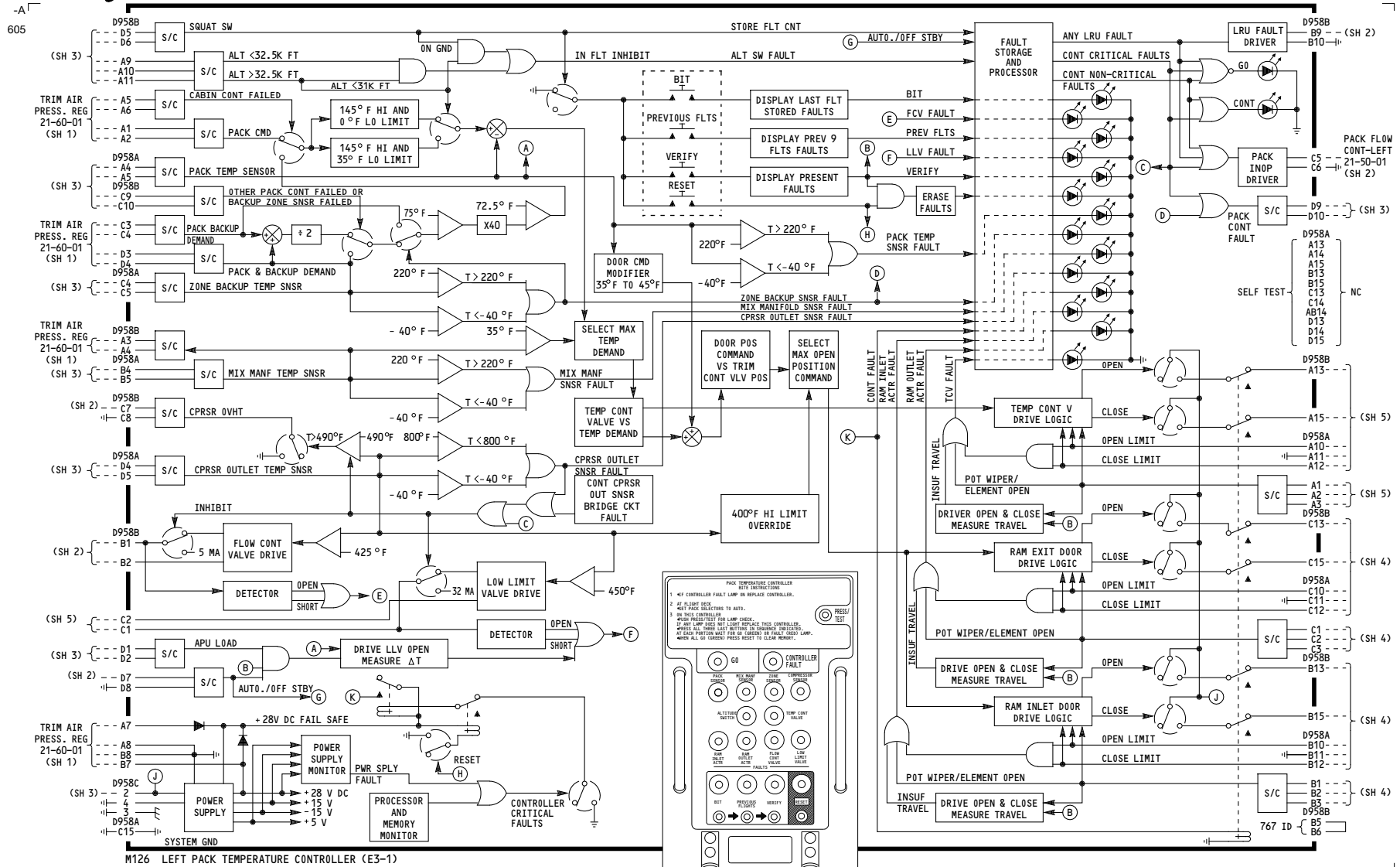
PACK AUTO CONTROL-LEFT

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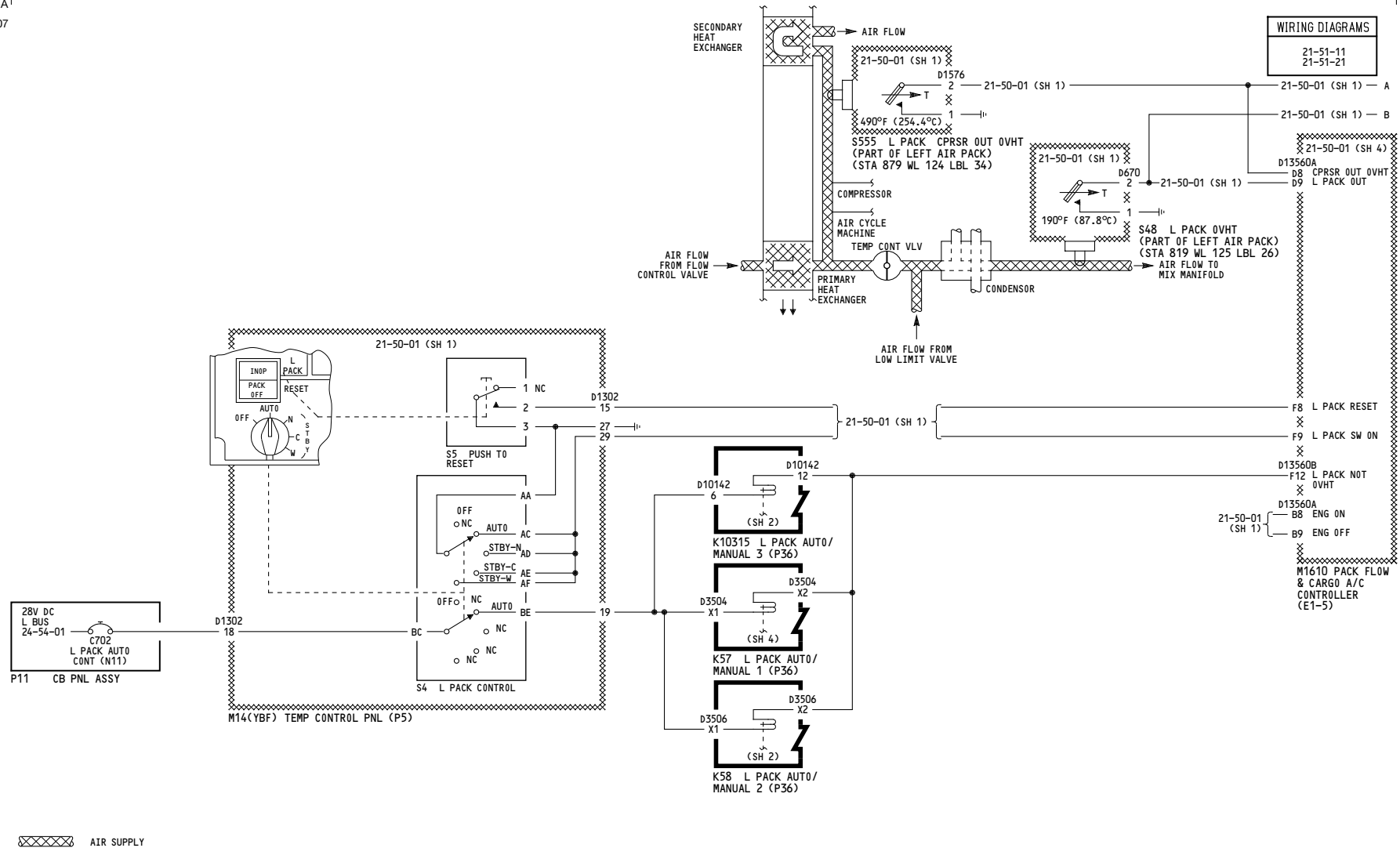
**PACK AUTO CONTROL-
LEFT**

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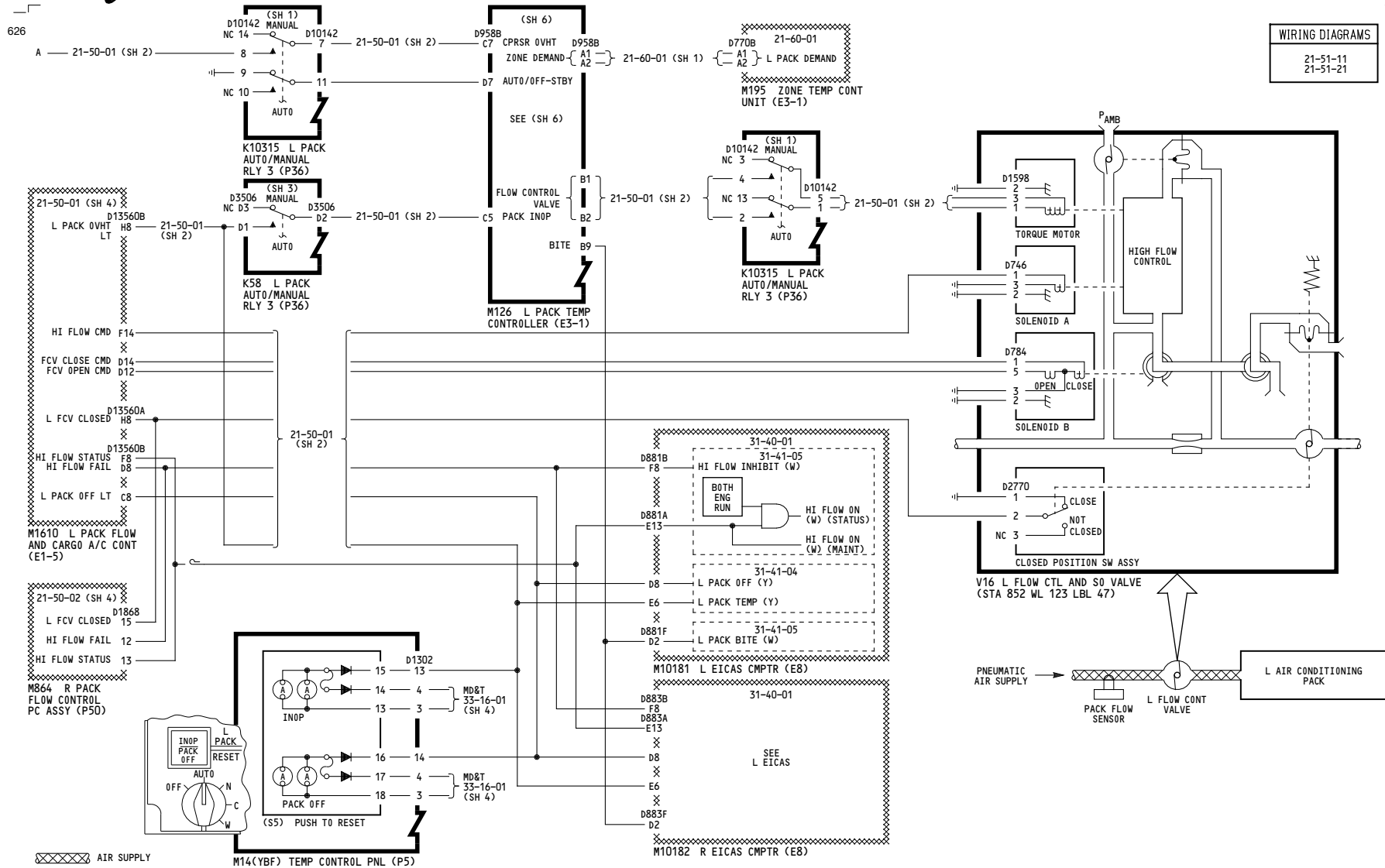
PACK AUTO CONTROL-
LEFT

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WIRING DIAGRAMS
21-51-11
21-51-21



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PACK AUTO CONTROL-LEFT

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21-0076 R01

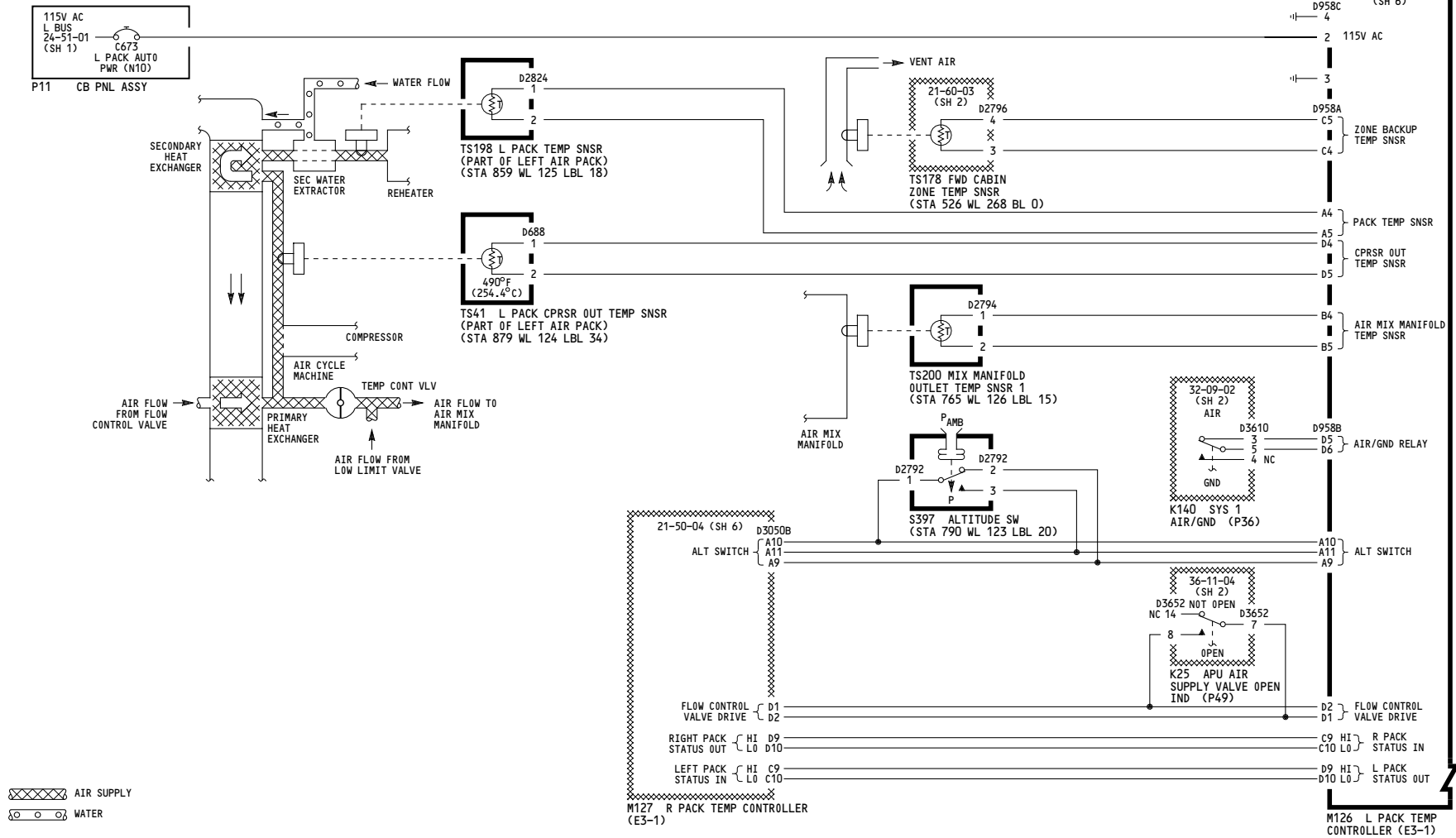
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WIRING DIAGRAMS
21-51-12



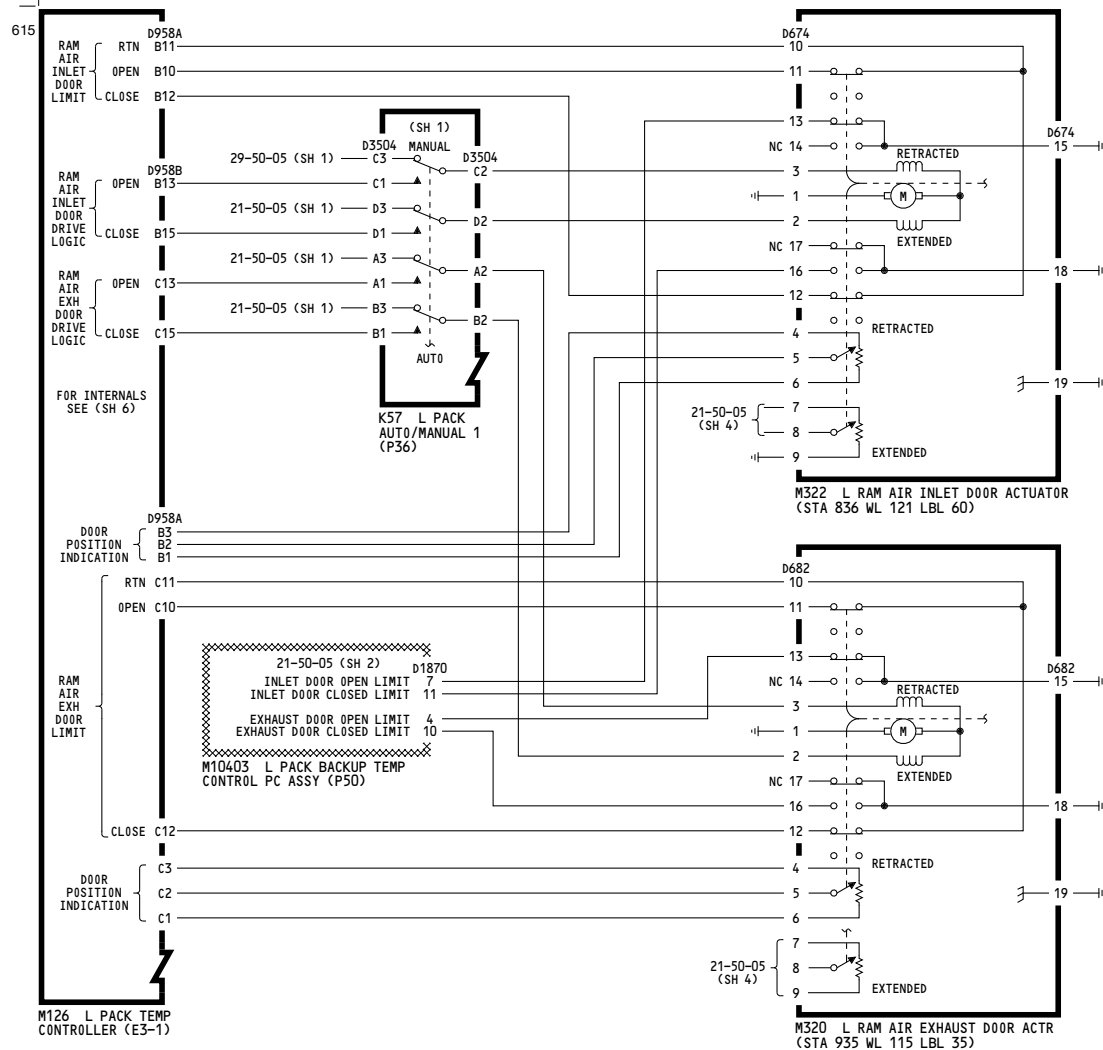
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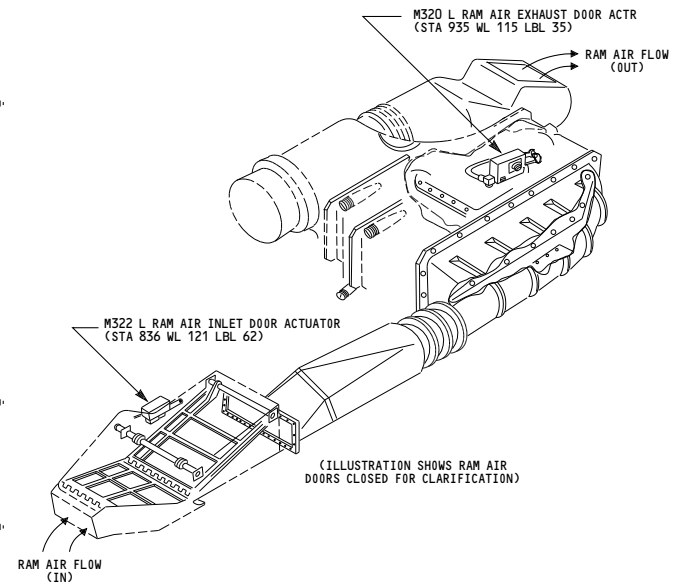
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WIRING DIAGRAMS
21-51-12 21-53-11



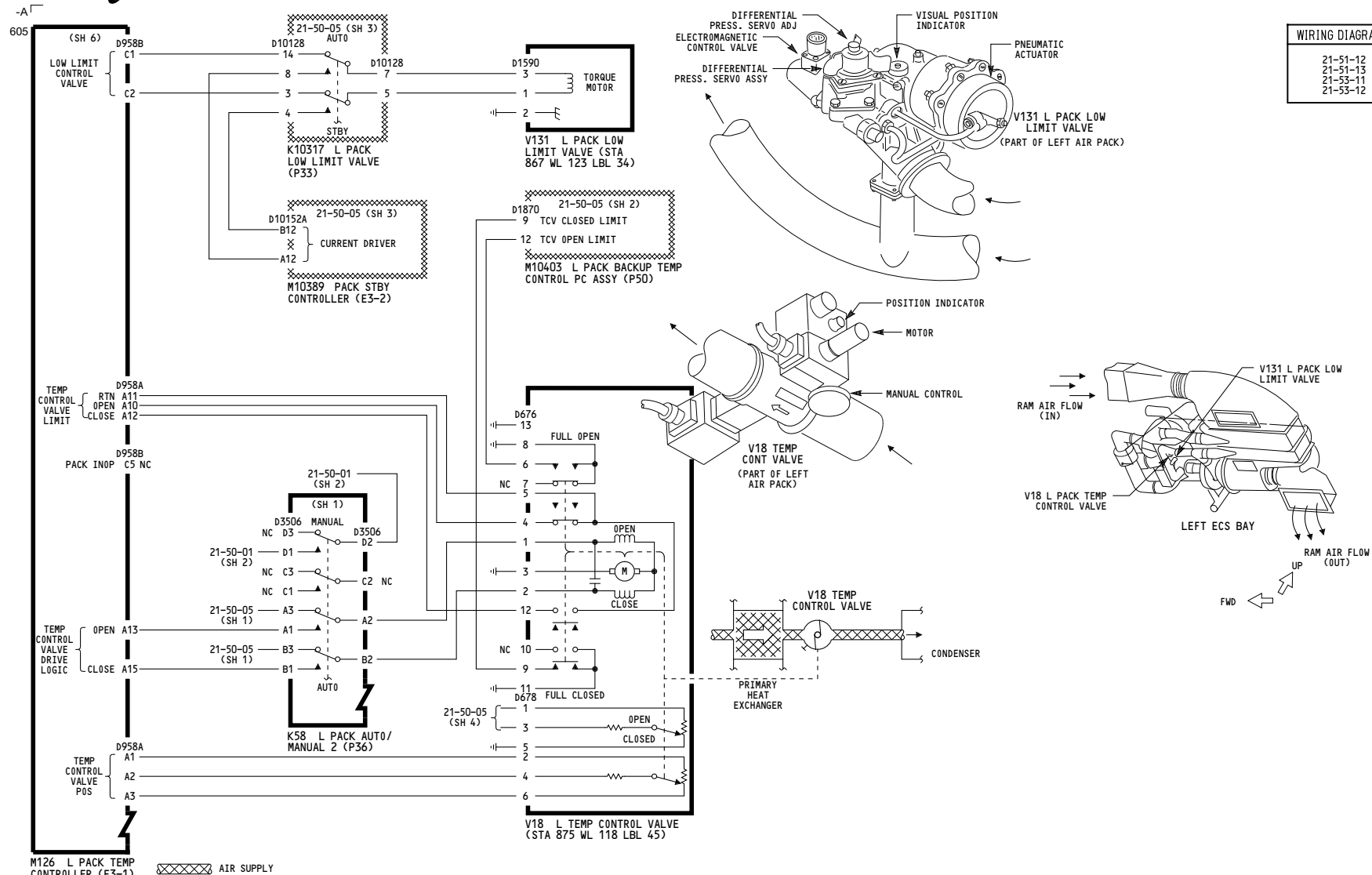
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**PACK AUTO CONTROL-
LEFT**

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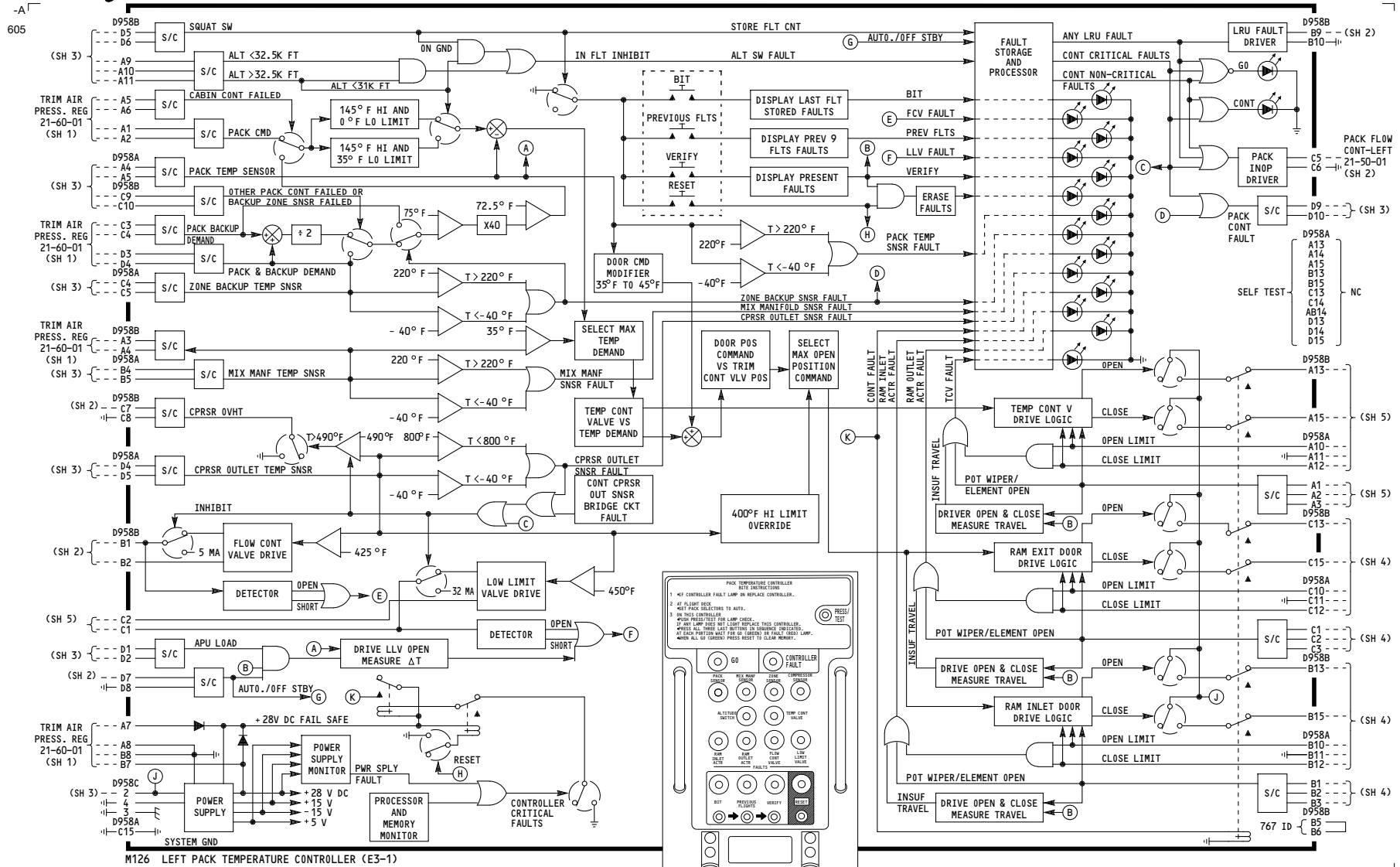
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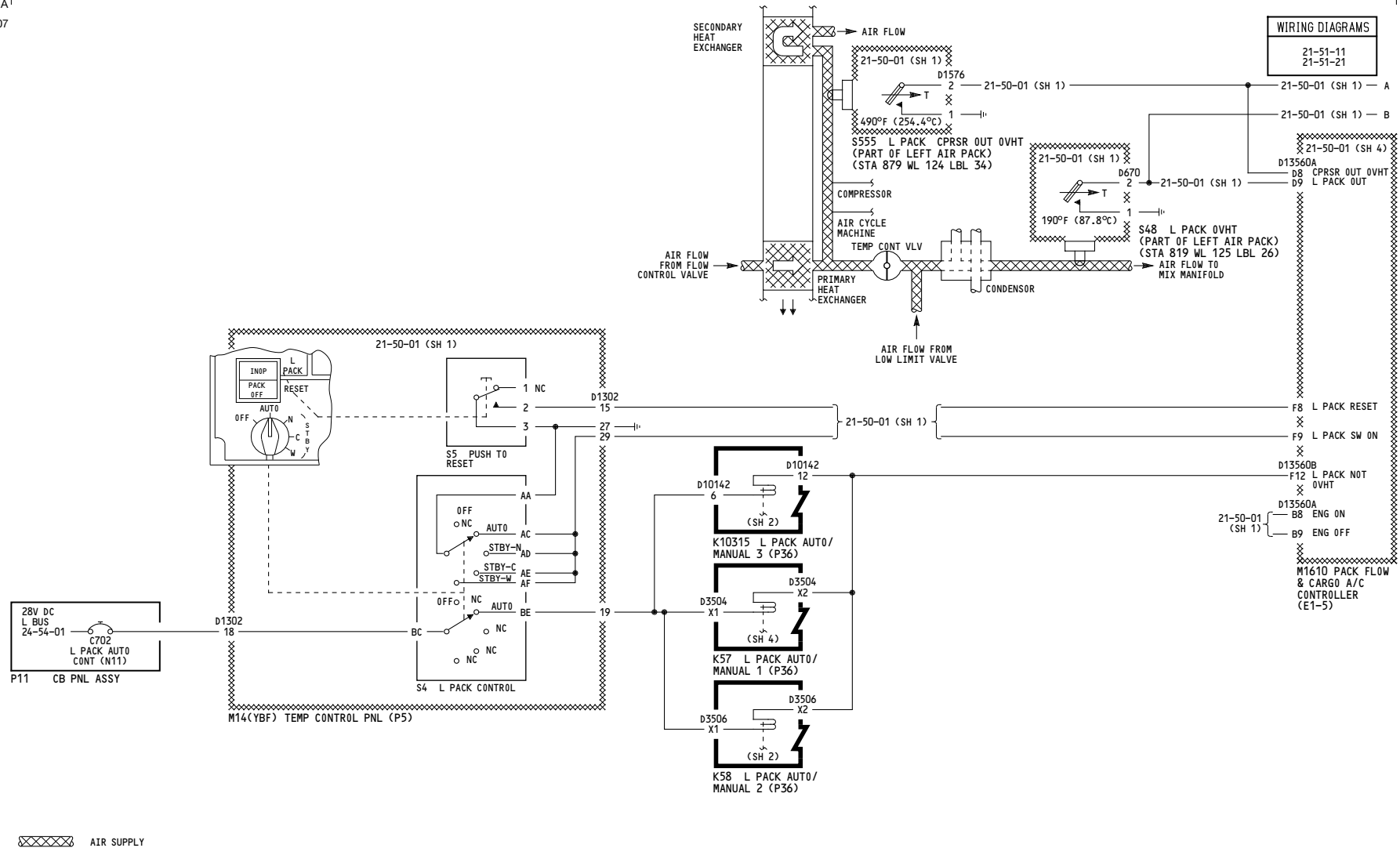
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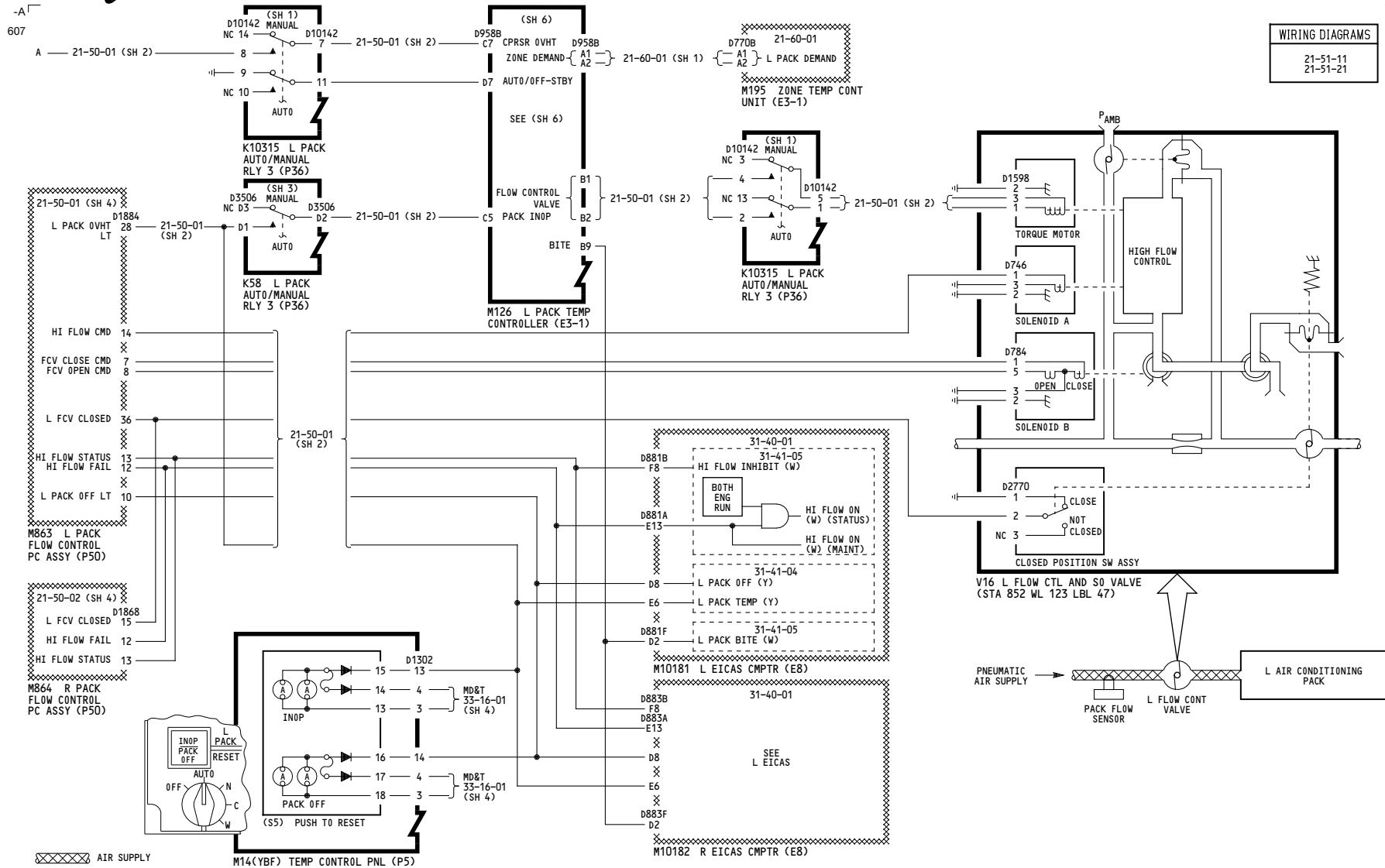
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**PACK AUTO CONTROL-
LEFT**

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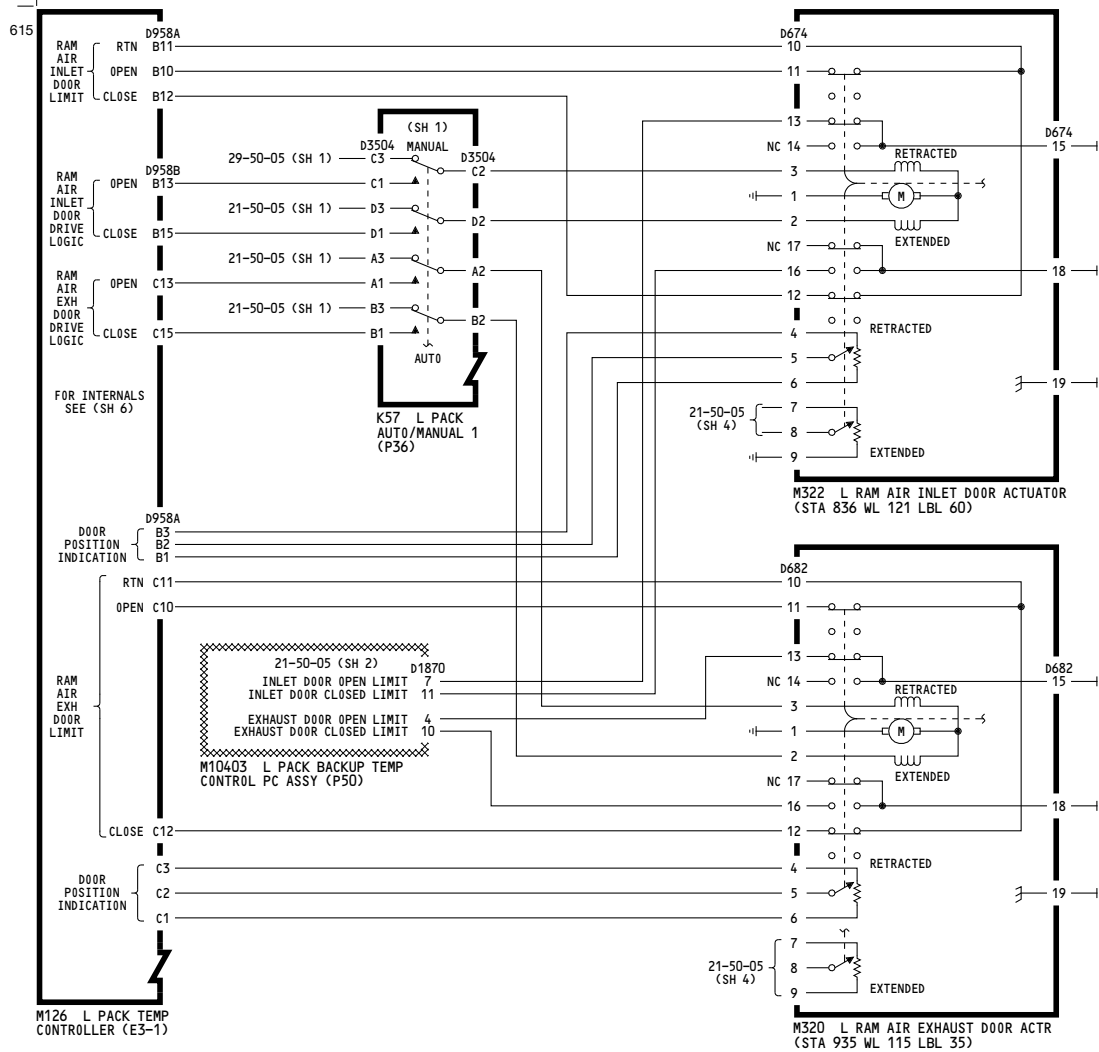
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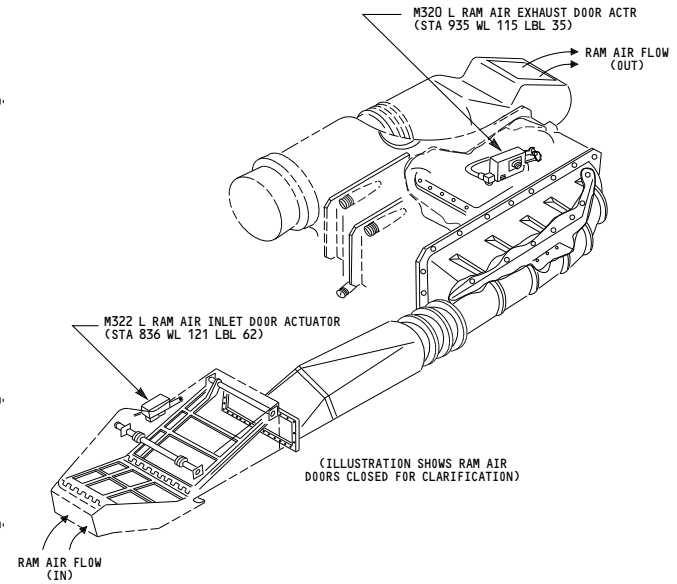
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NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.



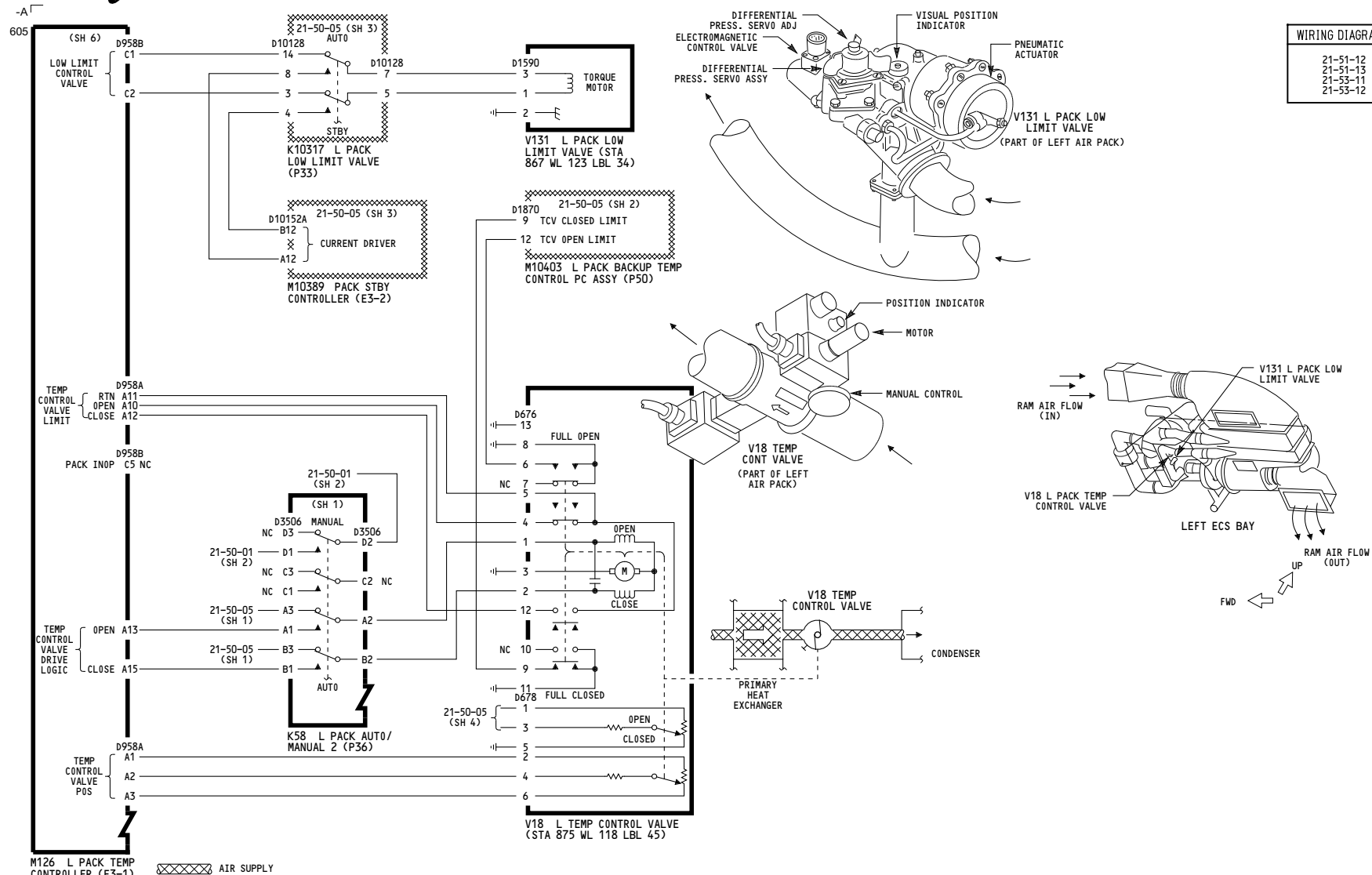
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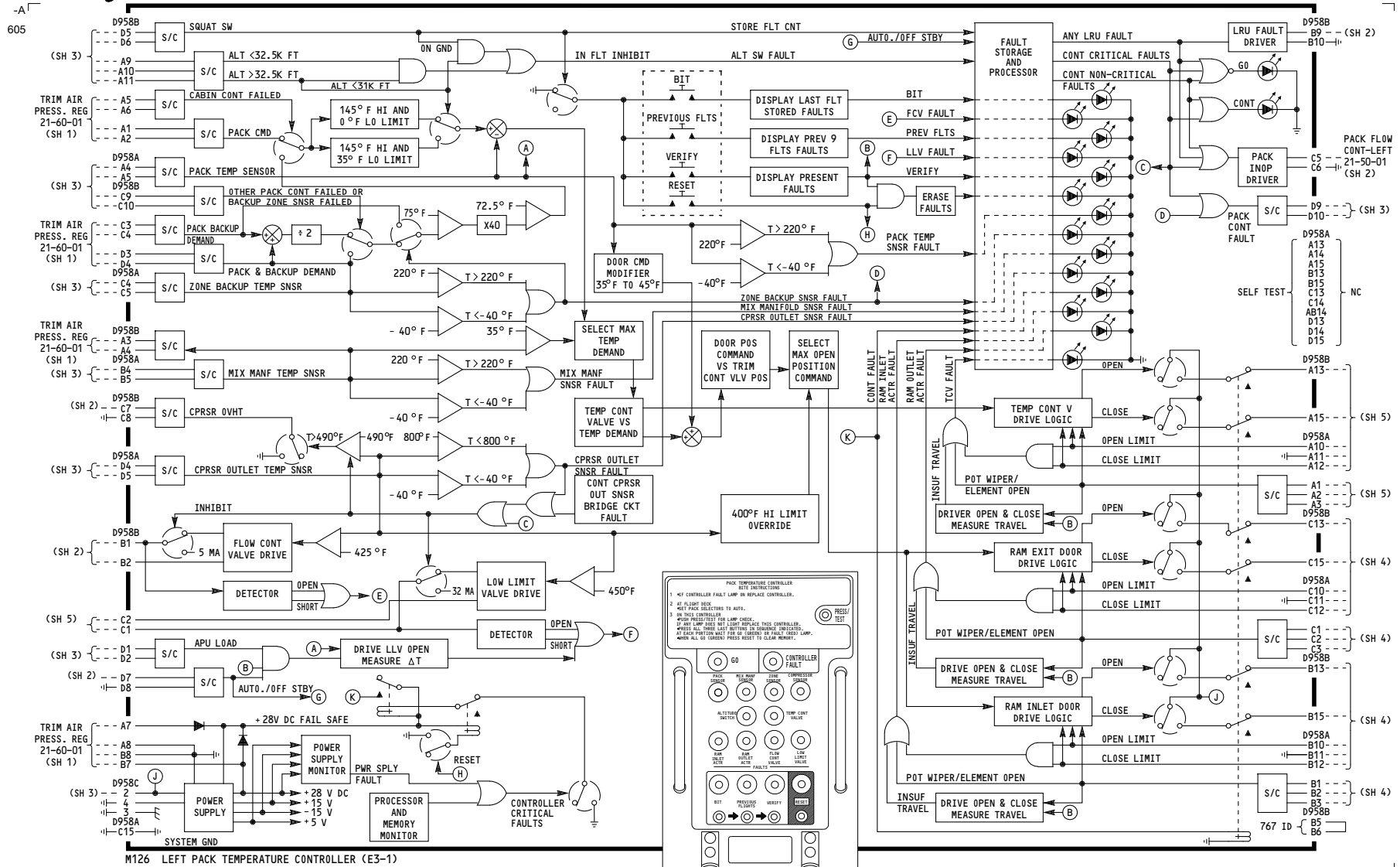
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**PACK AUTO CONTROL-
LEFT**

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WIRING DIAGRAMS

21-51-11
21-53-11



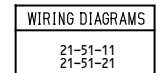
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 AIR SUPPLY

280-299

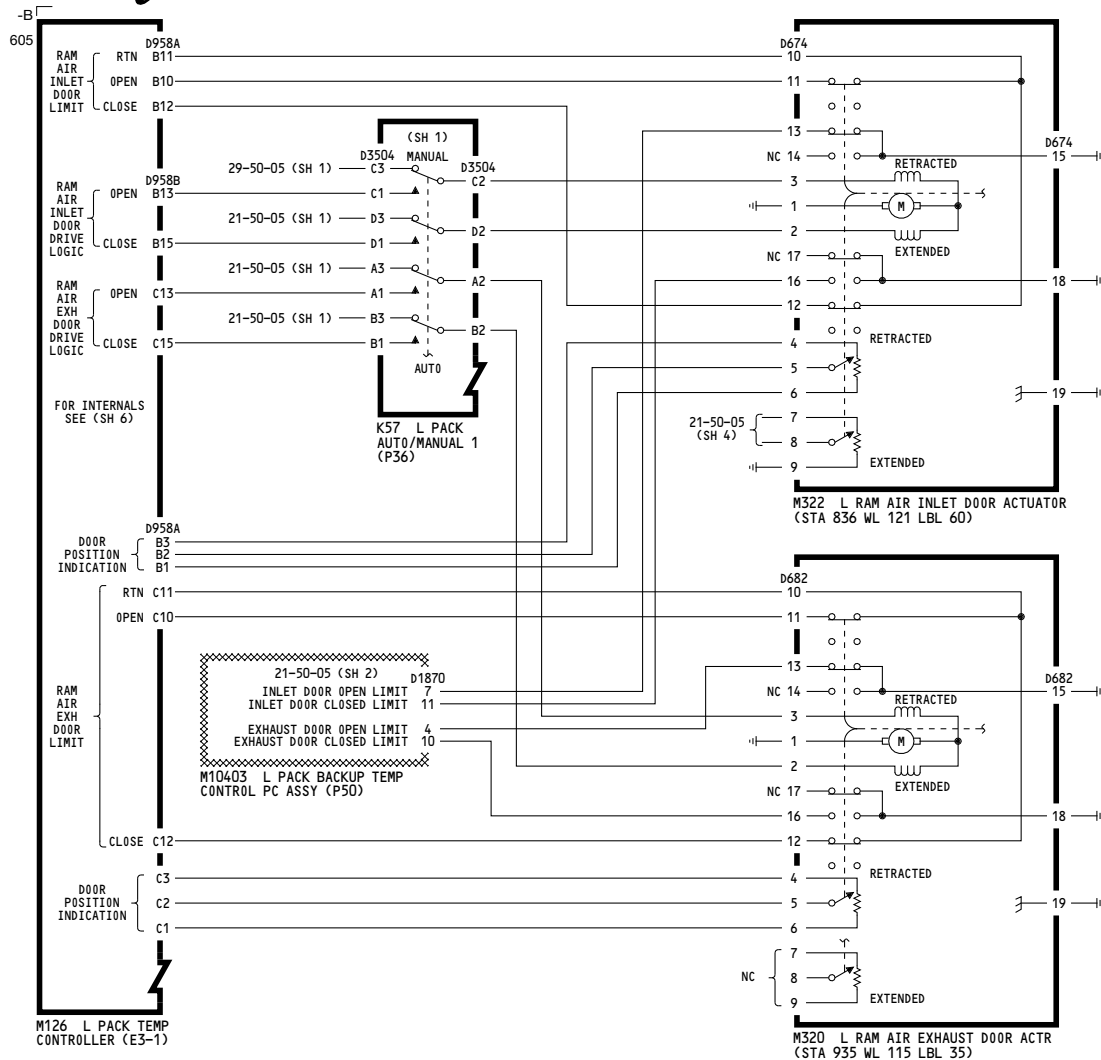
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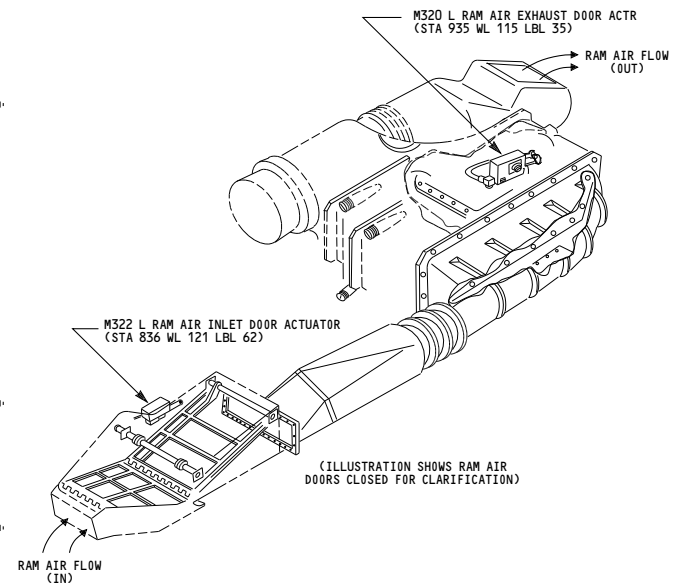


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NOTE: WHEN RAM AIR ACTUATORS ARE IN
EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.



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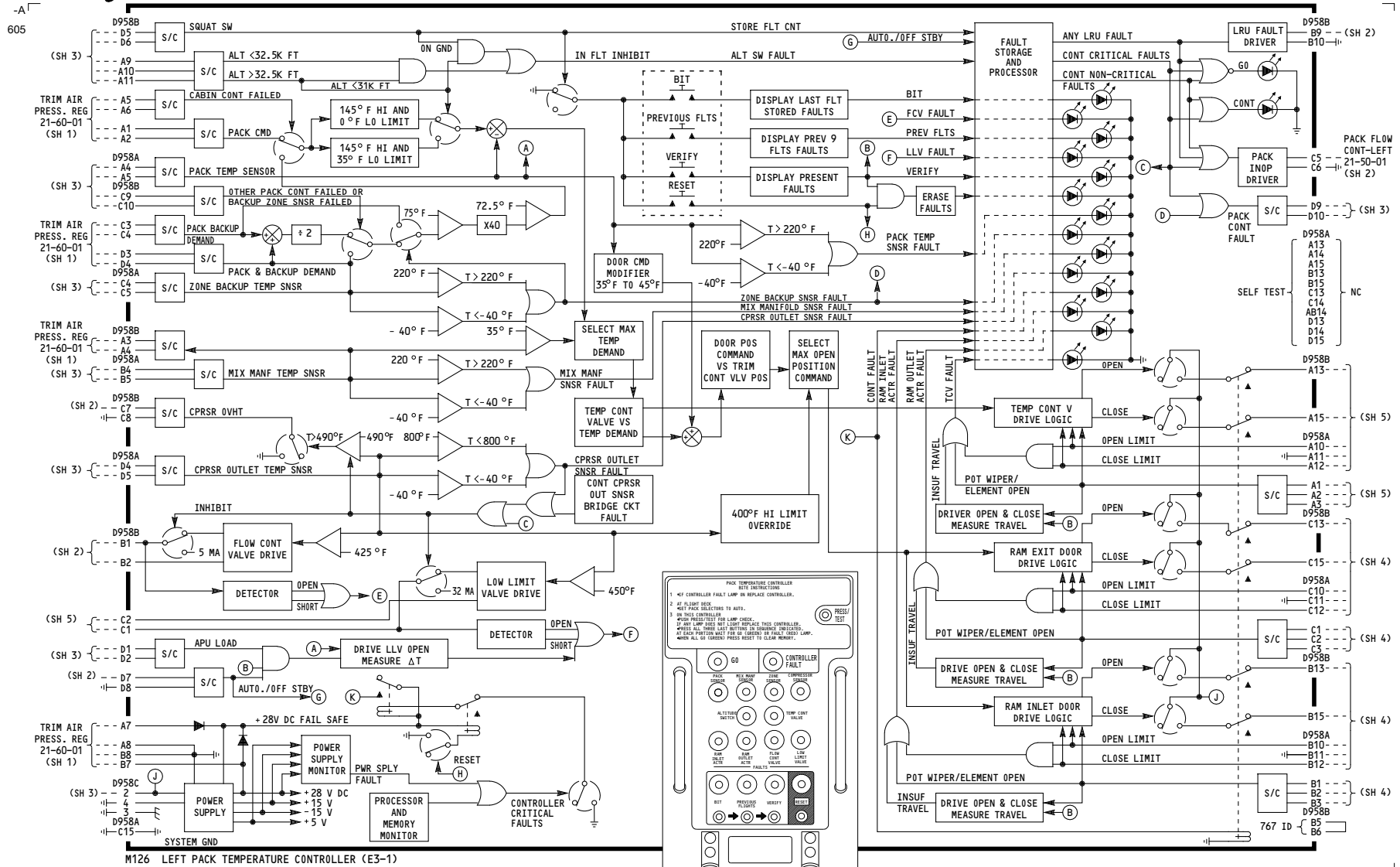
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**PACK AUTO CONTROL-
LEFT**

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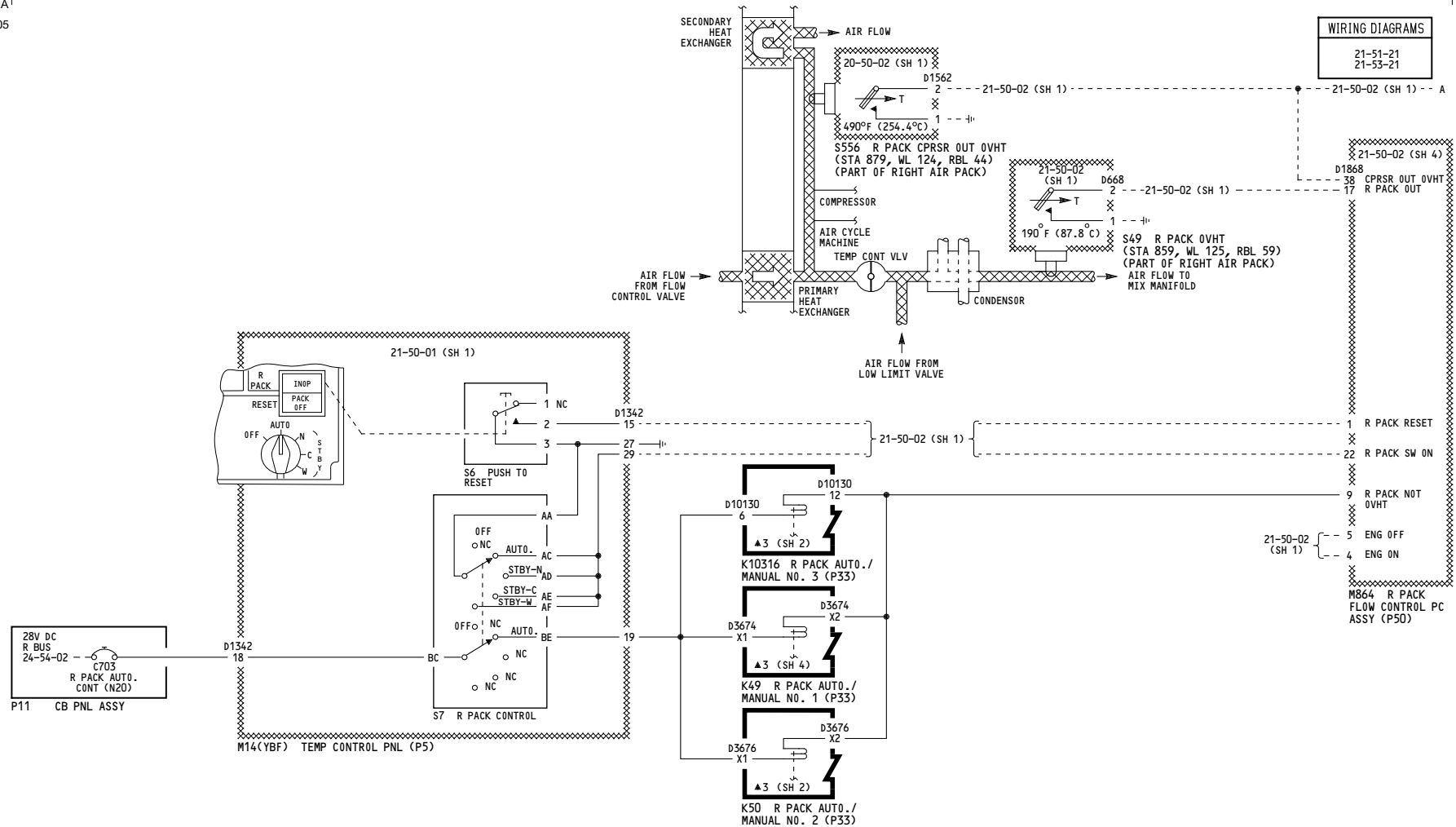
PACK AUTO CONTROL-LEFT

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XXXXX AIR SUPPLY

050, 150-154, 275-276

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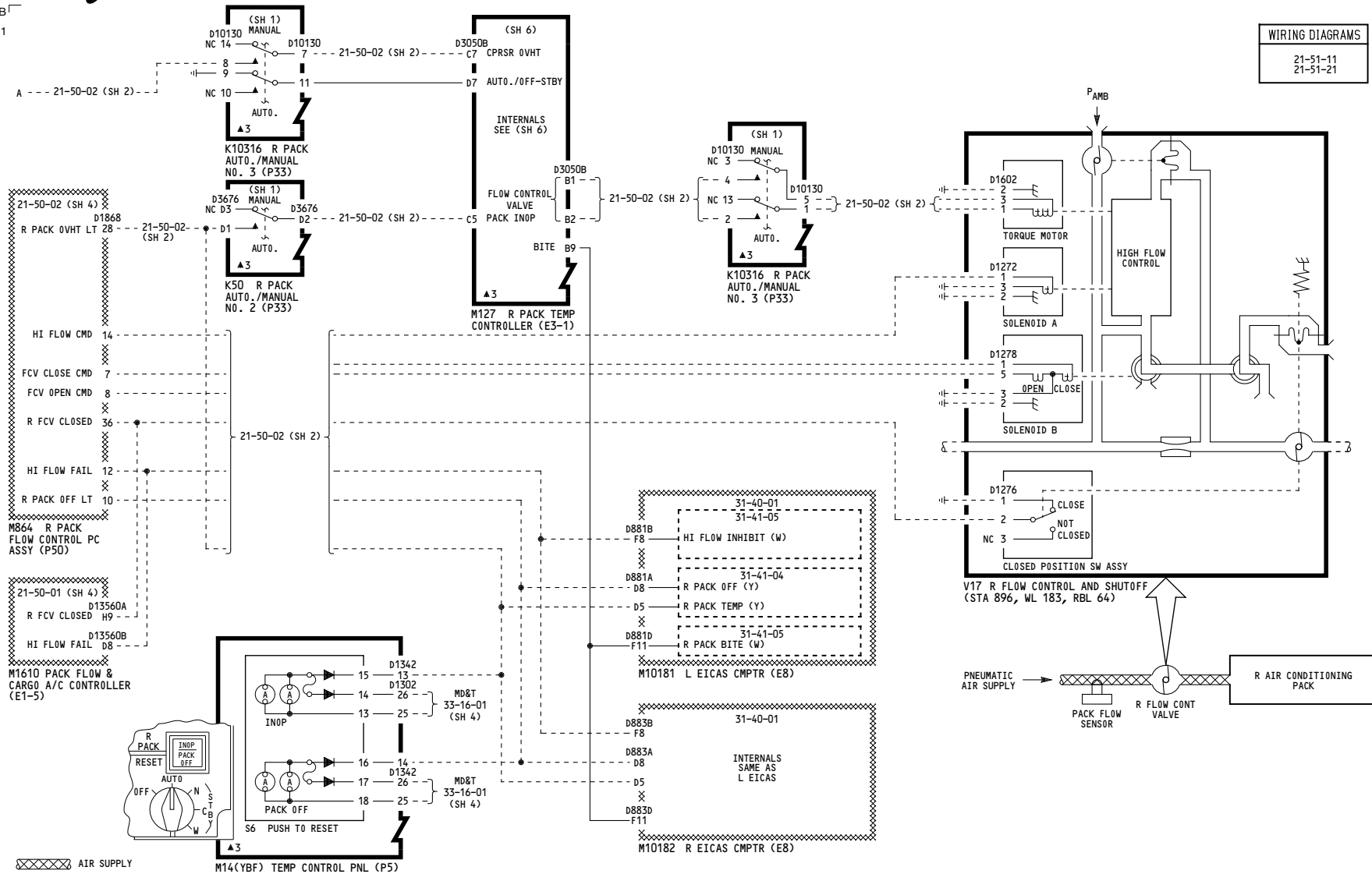
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WIRING DIAGRAMS
21-51-11
21-51-21



XXXXX AIR SUPPLY

M14(YBF) TEMP CONTROL PNL (P5)

050, 150-154, 275-276

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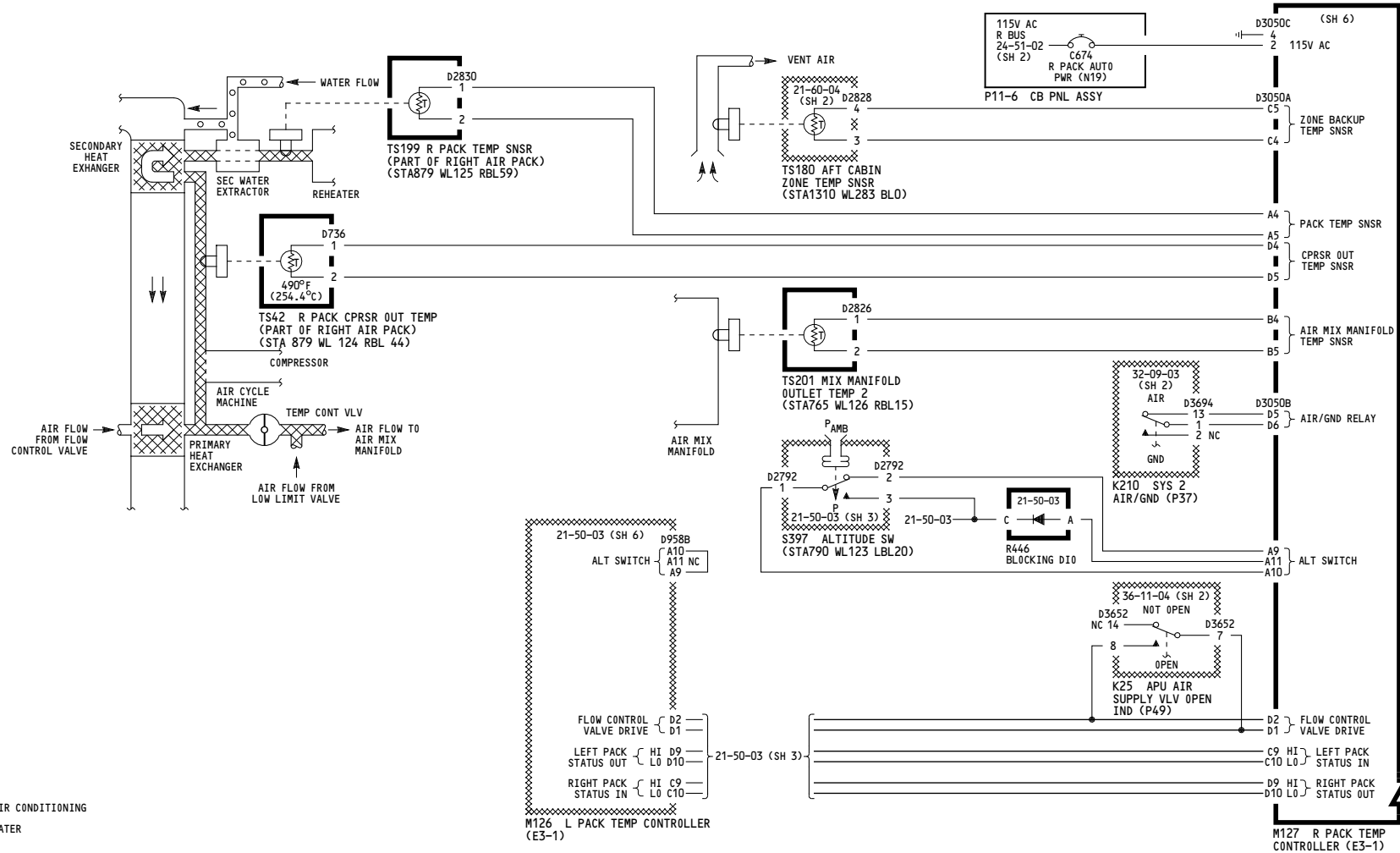
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WIRING DIAGRAMS
21-51-22



050, 150-154, 275-276

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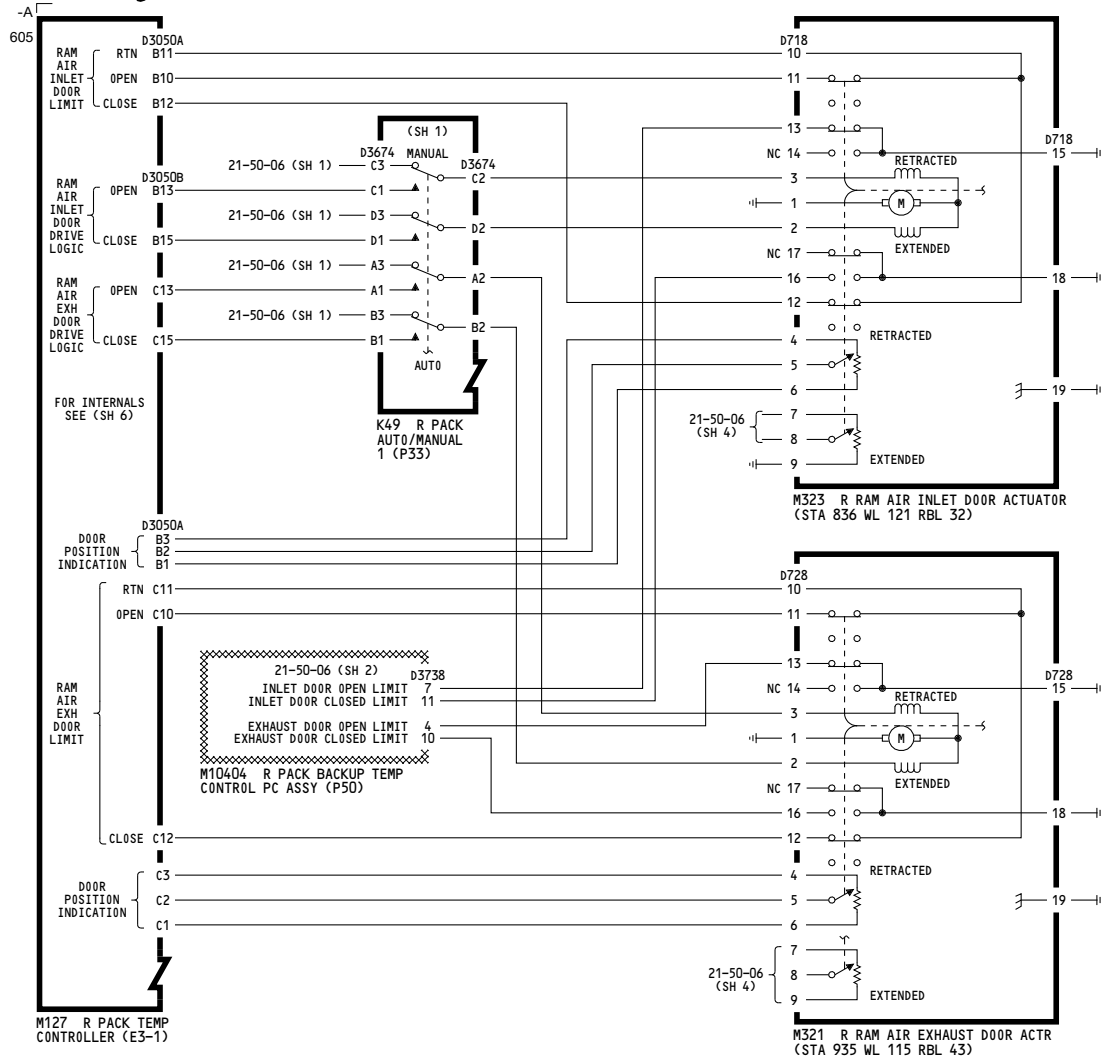
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WIRING DIAGRAMS

21-53-21

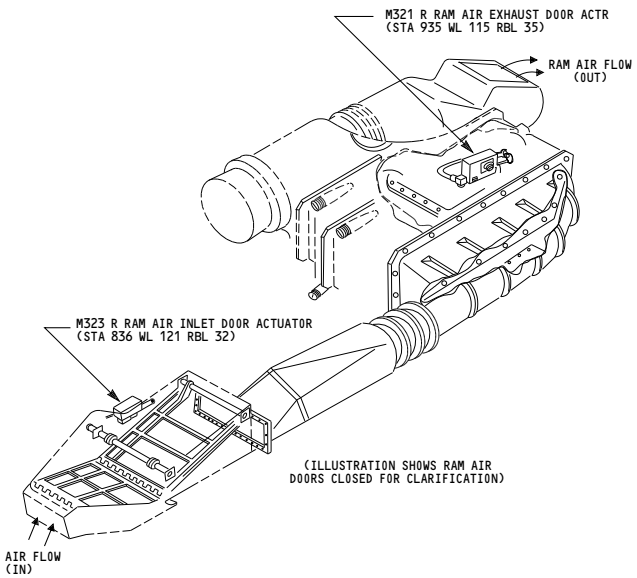


NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.

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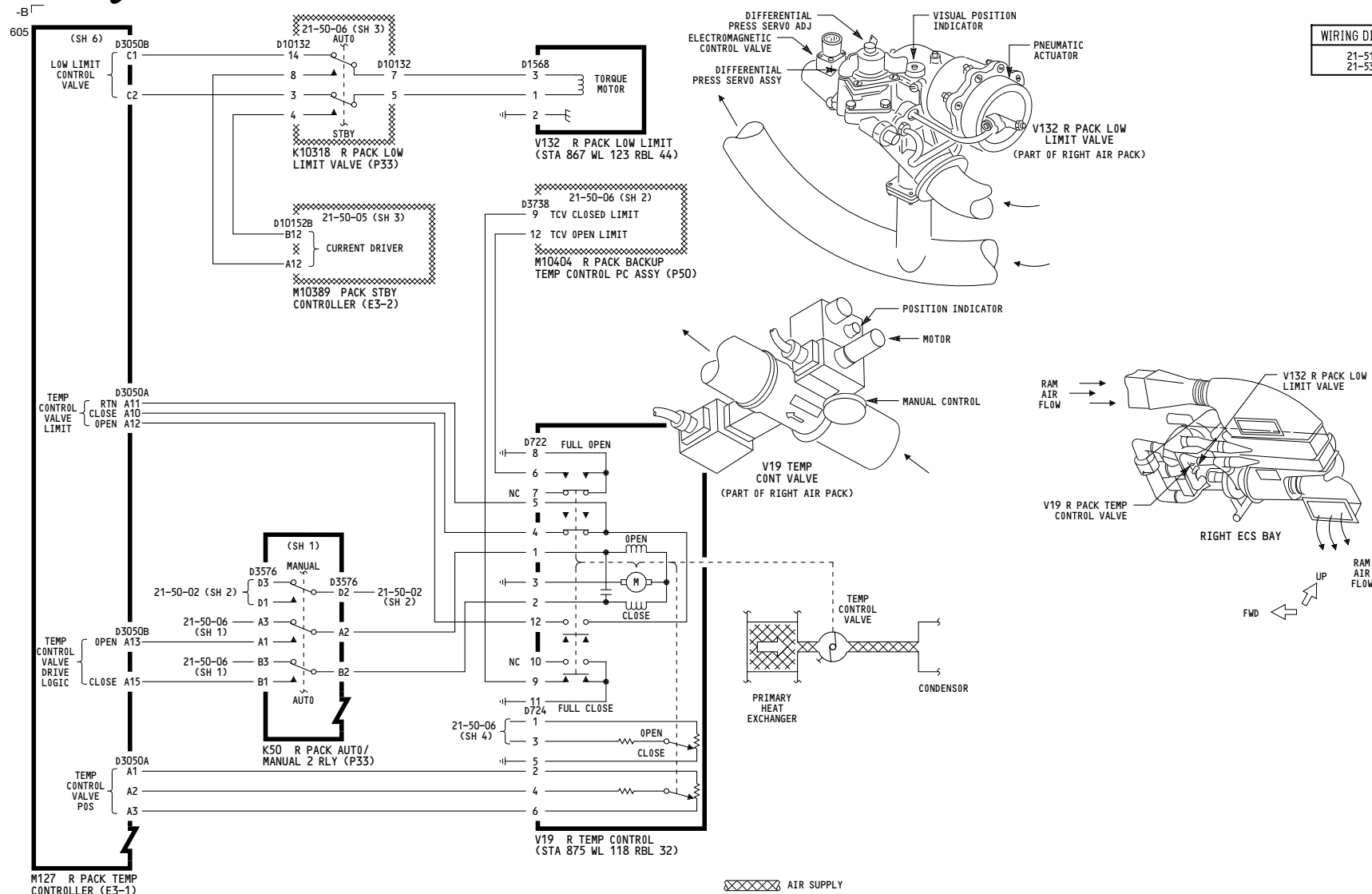
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(ILLUSTRATION SHOWS RAM AIR
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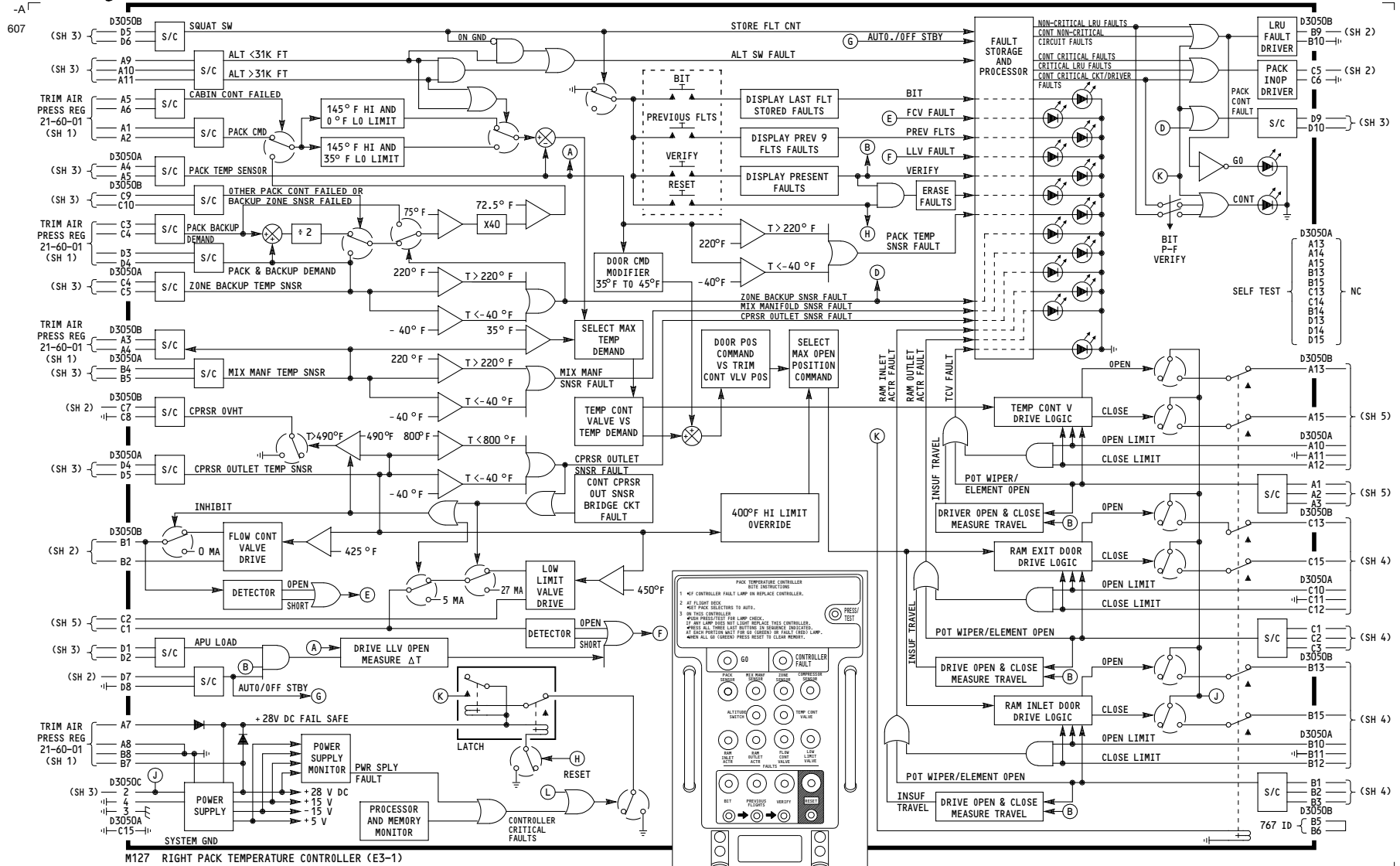
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PACK AUTO CONTROL-RIGHT

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**PACK AUTO CONTROL-
RIGHT**

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WIRING DIAGRAMS

21-51-21
21-53-21

The diagram illustrates the electrical control circuit for the right air pack system. It includes components such as the Secondary Heat Exchanger, Air Flow Control Valve, Compressor, Air Cycle Machine, Temp Cont VLV, Primary Heat Exchanger, Condensor, and various sensors and switches.

Key Components and Connections:

- AIR FLOW FROM LOW LIMIT VALVE:** Connected to the bottom of the primary heat exchanger.
- TEMP CONT VLV:** Temperature control valve connected to the compressor and air cycle machine.
- COMPRESSOR:** Part of the right air pack system.
- AIR CYCLE MACHINE:** Part of the right air pack system.
- PRIMARY HEAT EXCHANGER:** Connected to the air flow from the low limit valve and the condenser.
- CONDENSOR:** Connected to the primary heat exchanger and the air flow to the mix manifold.
- Sensors and Switches:**
 - D1562 (T) at 490°F (254.4°C)
 - D668 (T) at 190°F (87.8°C)
 - K10316 R PACK AUTO./MANUAL NO. 3 (P33)
 - K49 R PACK AUTO./MANUAL NO. 1 (P33)
 - K50 R PACK AUTO./MANUAL NO. 2 (P33)

Wiring Details:

- 21-50-02 (SH 1):** Multiple connections throughout the system, including to the compressor, air cycle machine, and various sensors.
- 21-50-02 (SH 4):** Connection to the S556 R PACK CPRSR OUT OVHT (STA 879, WL 124, RBL 44).
- 21-50-02 (SH 1):** Connection to the S49 R PACK OVHT (STA 859, WL 125, RBL 59).
- 21-50-02 (SH 1):** Connection to the R PACK RESET, R PACK SW ON, R PACK NOT OVHT, ENG OFF, and ENG ON signals.
- 21-50-02 (SH 1):** Connection to the MB64 R PACK FLOW CONTROL PC ASSY (P50).

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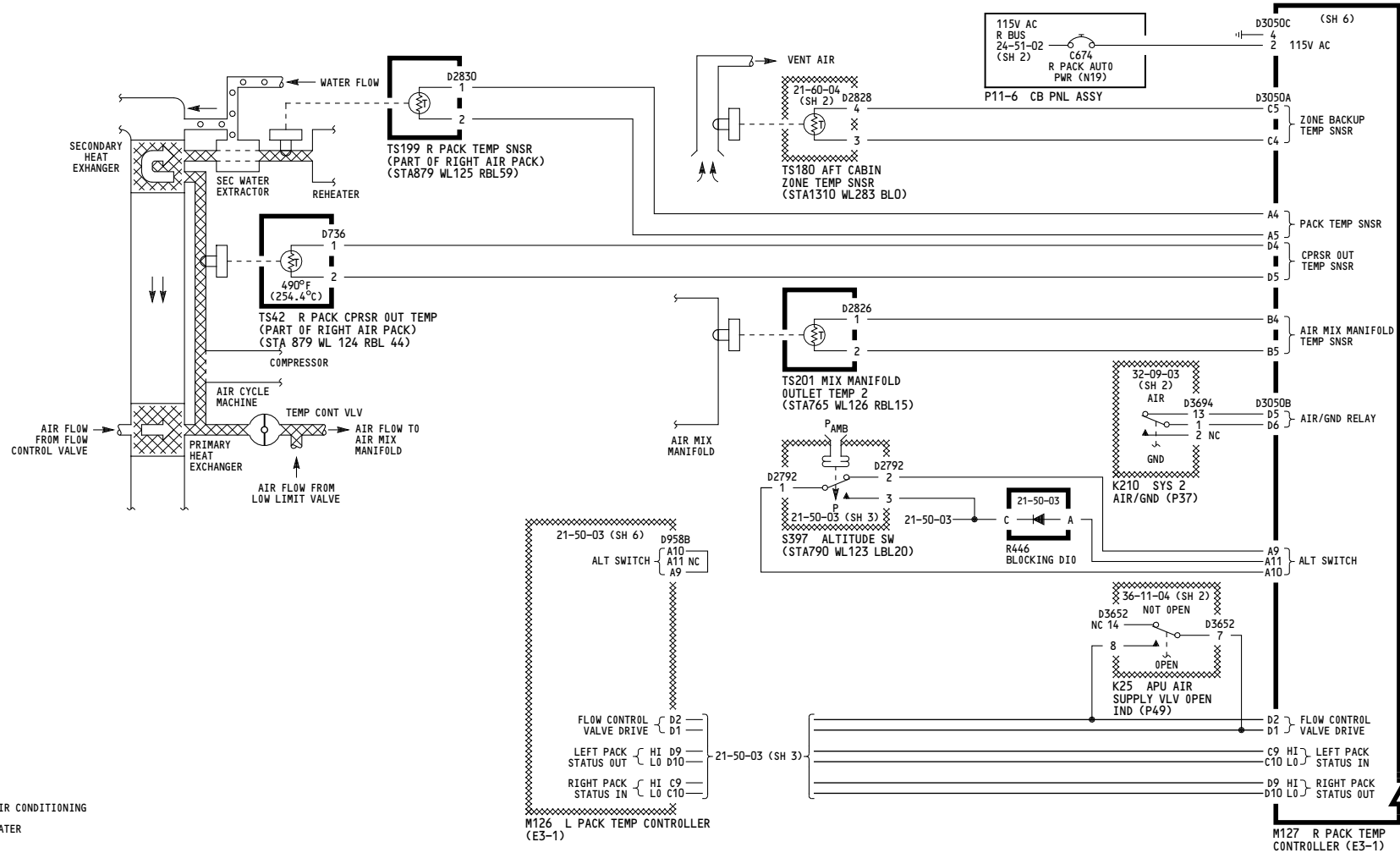
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21-51-22



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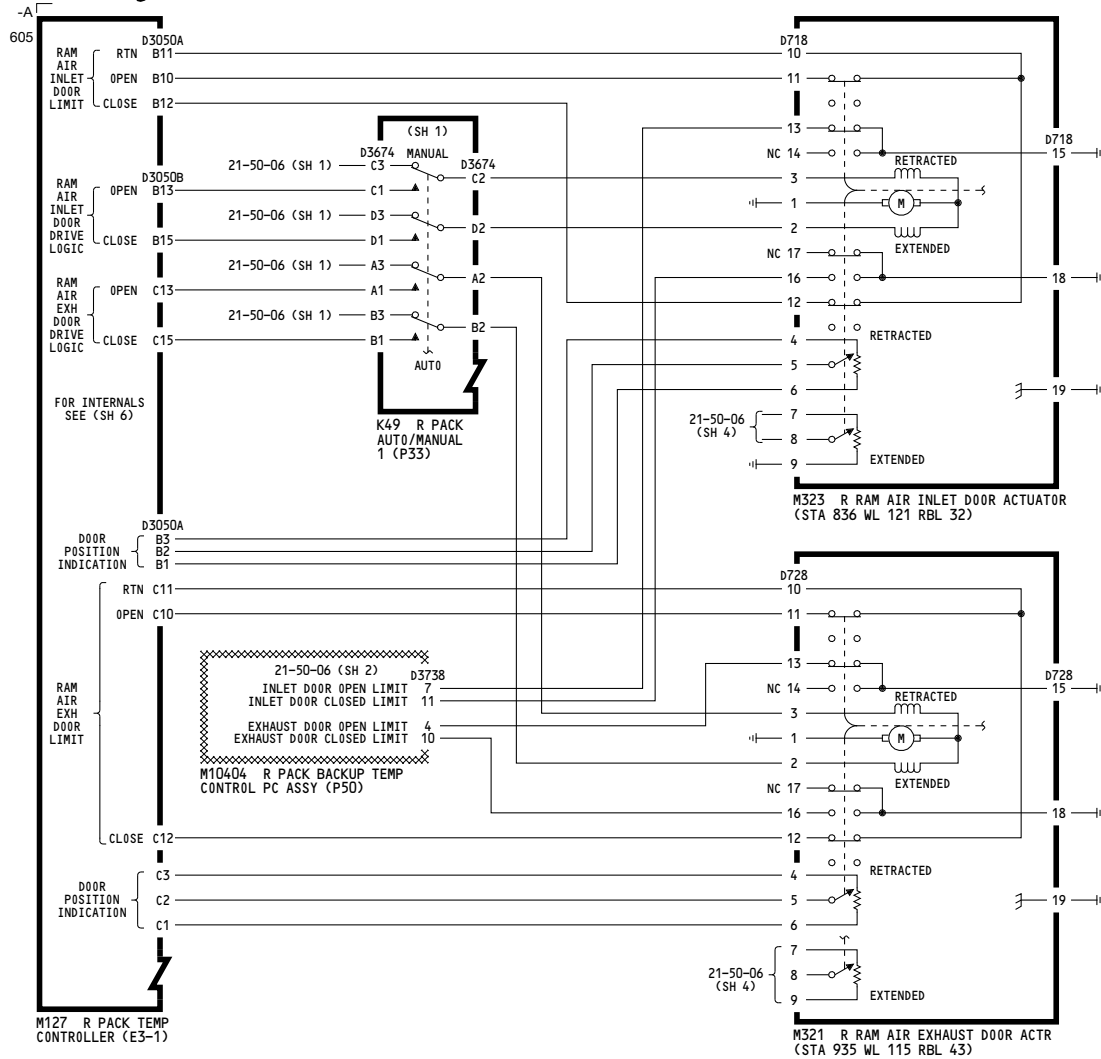
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WIRING DIAGRAMS

21-53-21

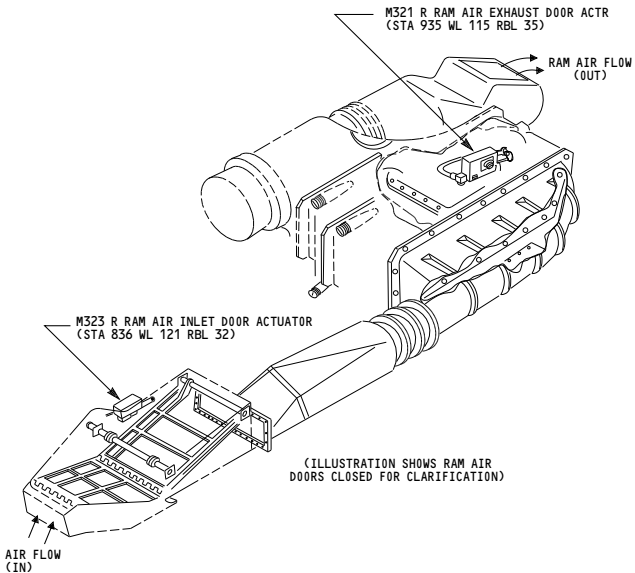


NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.

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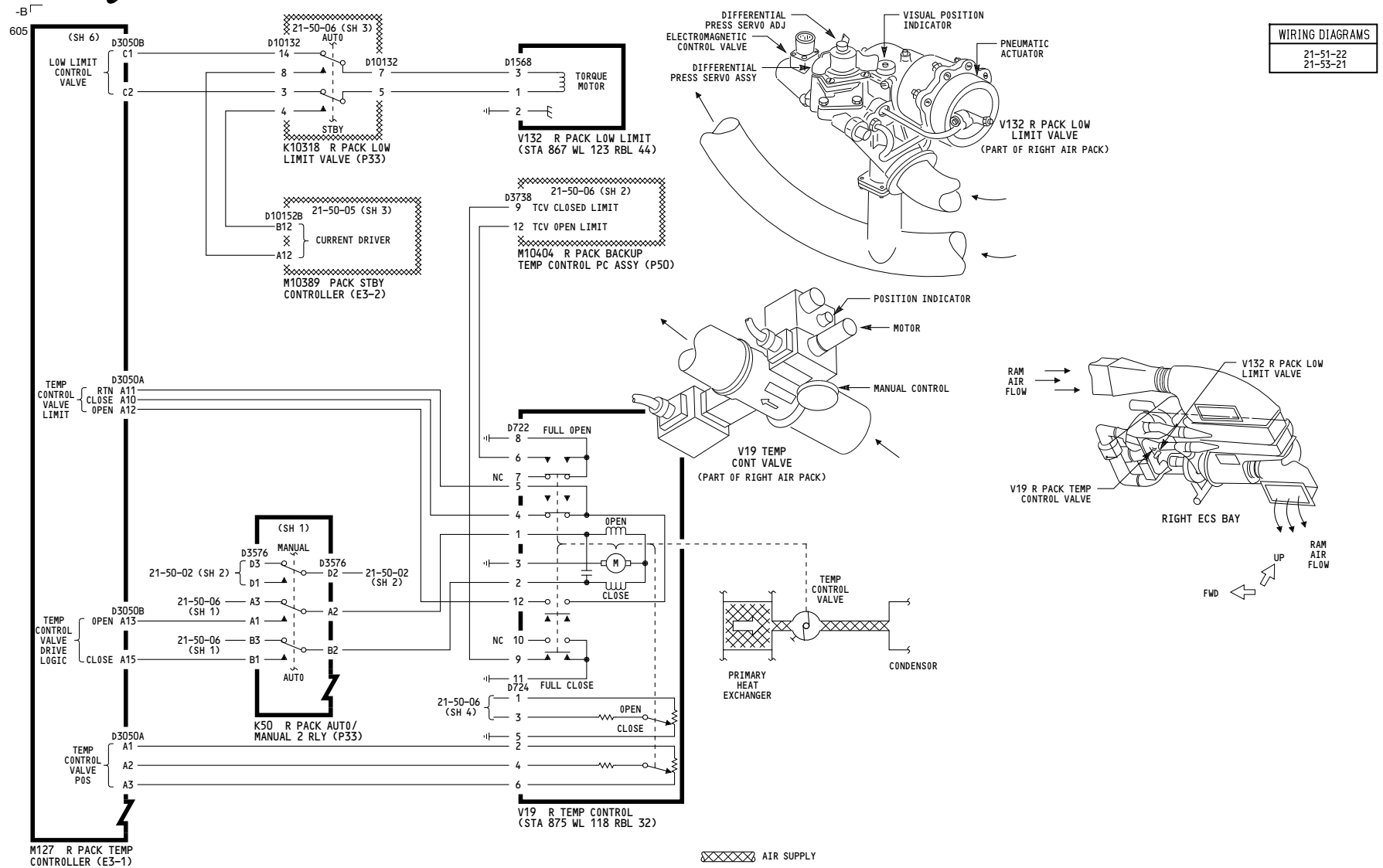
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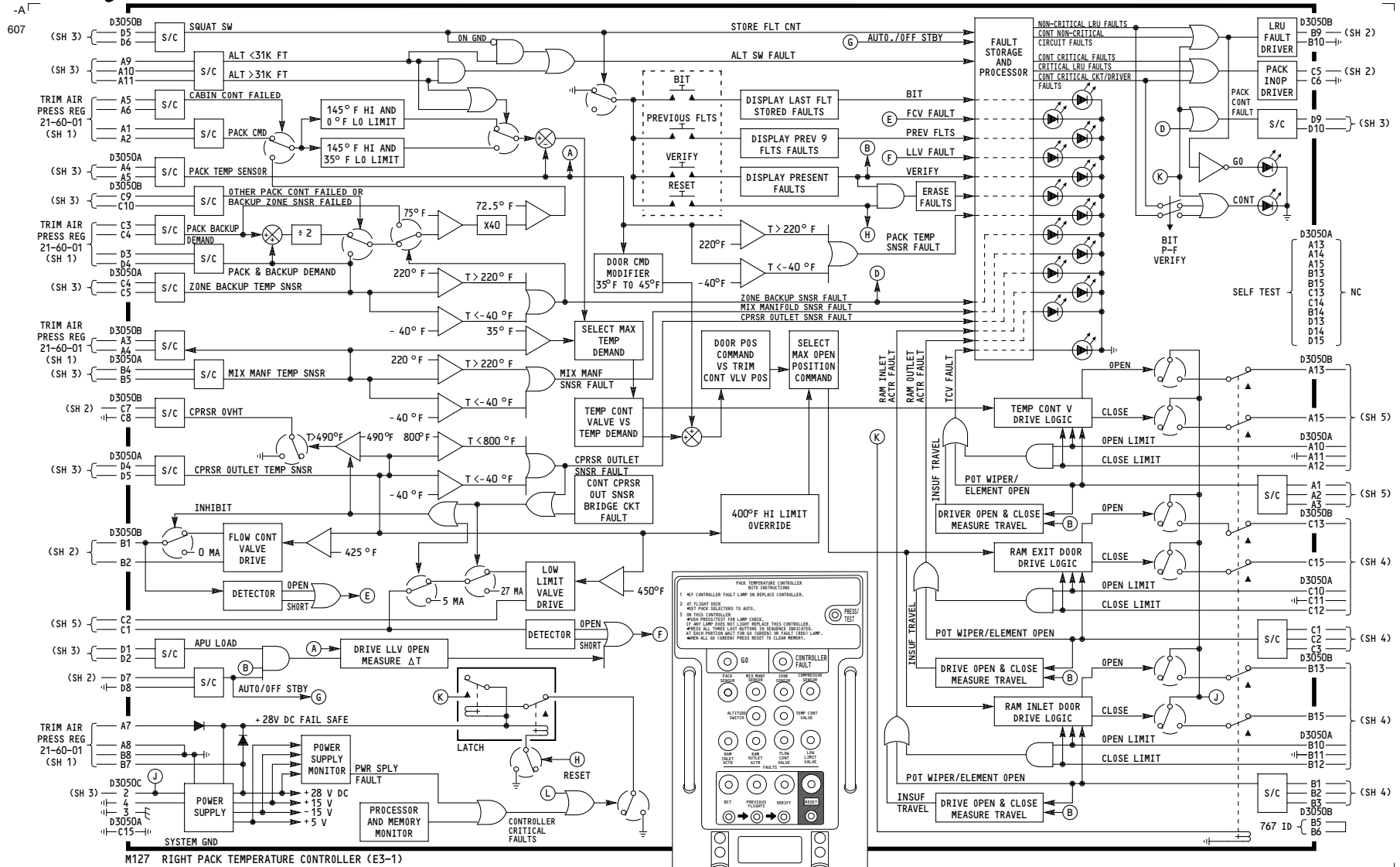
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RIGHT**

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**PACK AUTO CONTROL-
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WIRING DIAGRAMS

21-51-21
21-53-21

SECONDARY HEAT EXCHANGER

AIR FLOW

20-50-02 (SH 1)

D1562

2 21-50-02 (SH 1)

1 4"

490°F (254.4°C)

S556 R PACK CPRSR OUT OVHT (STA 879, WL 124, RBL 44) (PART OF RIGHT AIR PACK)

COMPRESSOR

AIR CYCLE MACHINE

TEMP CONT VLV

PRIMARY HEAT EXCHANGER

CONDENSOR

21-50-02 (SH 1)

D668

2 21-50-02 (SH 1)

1 4"

190°F (87.8°C)

S49 R PACK OVHT (STA 859, WL 125, RBL 59) (PART OF RIGHT AIR PACK)

AIR FLOW TO MIX MANIFOLD

AIR FLOW FROM LOW LIMIT VALVE

21-50-02 (SH 1)

1 R PACK RESET

22 R PACK SW ON

9 R PACK NOT OVHT

5 ENG OFF

4 ENG ON

M864 R PACK FLOW CONTROL PC ASSY (P50)

D1342

15

27

29

21-50-02 (SH 1)

D10130

12

D10130

6

▲3 (SH 2)

K10316 R PACK AUTO./MANUAL NO. 3 (P33)

D3674

X1

D3674

X2

▲3 (SH 4)

K49 R PACK AUTO./MANUAL NO. 1 (P33)

D3676

X1

D3676

X2

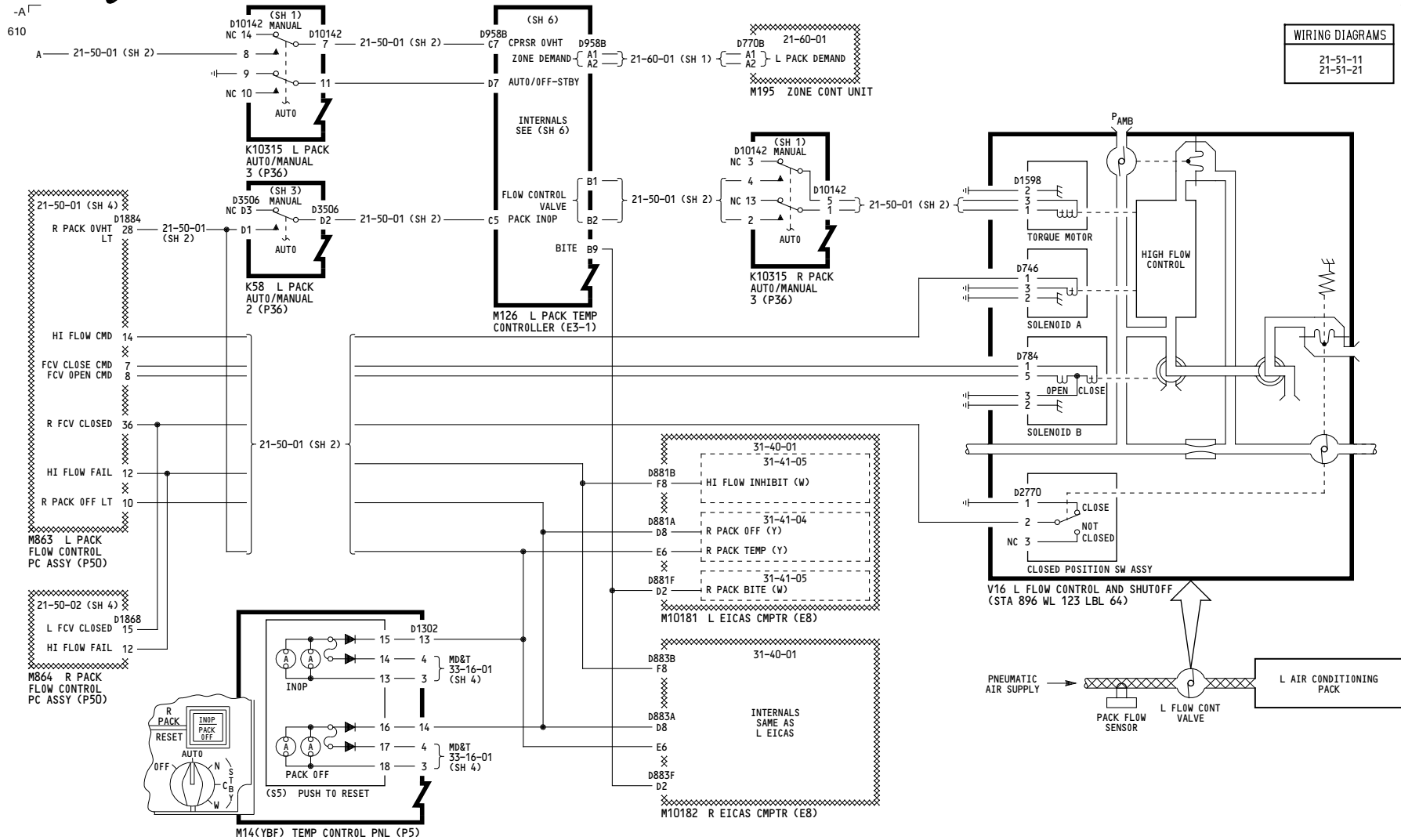
▲3 (SH 2)

K50 R PACK AUTO./MANUAL NO. 2 (P33)

277-278

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 AIR SUPPLY

277-278

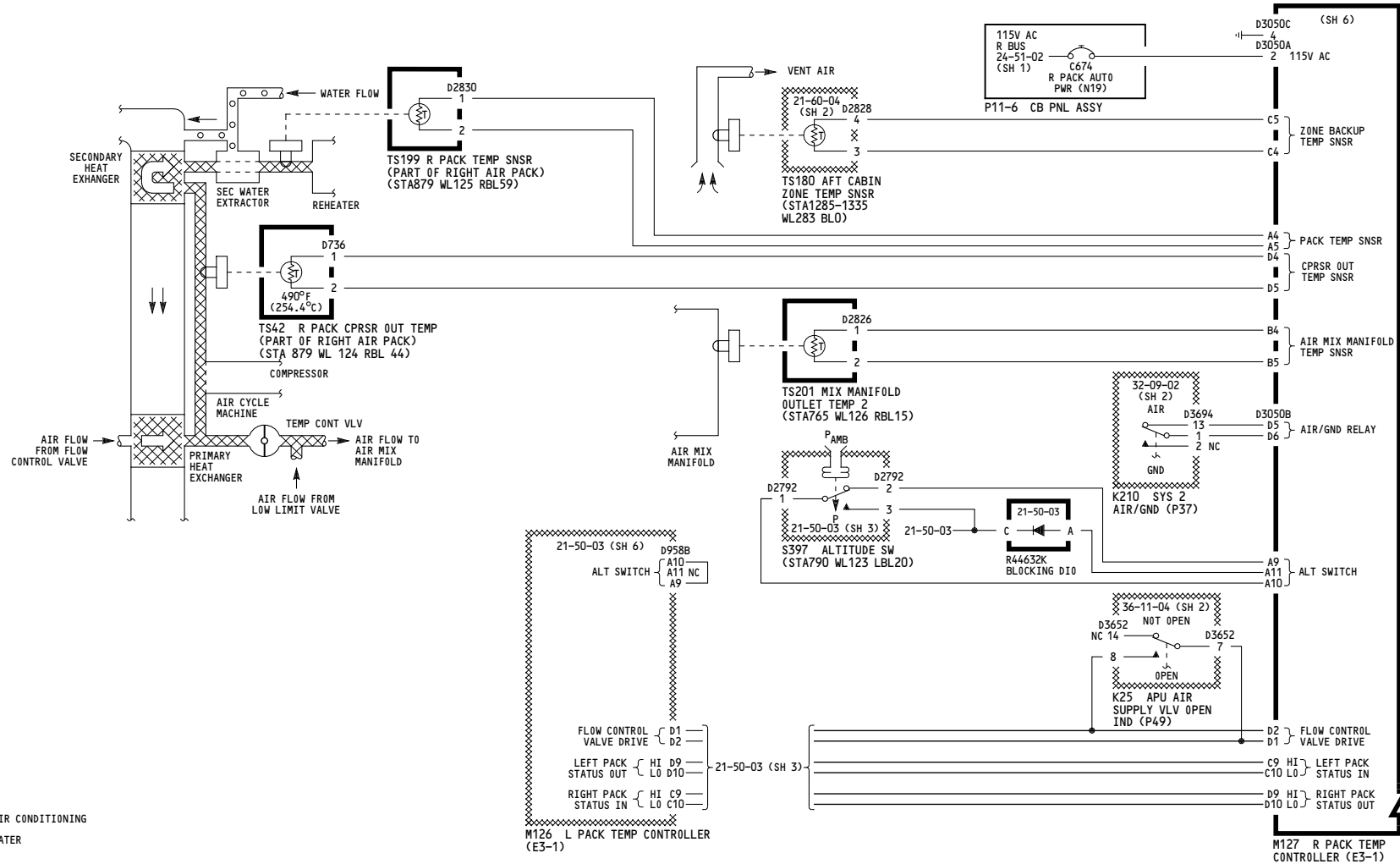
**PACK AUTO CONTROL-
RIGHT**

D280T232

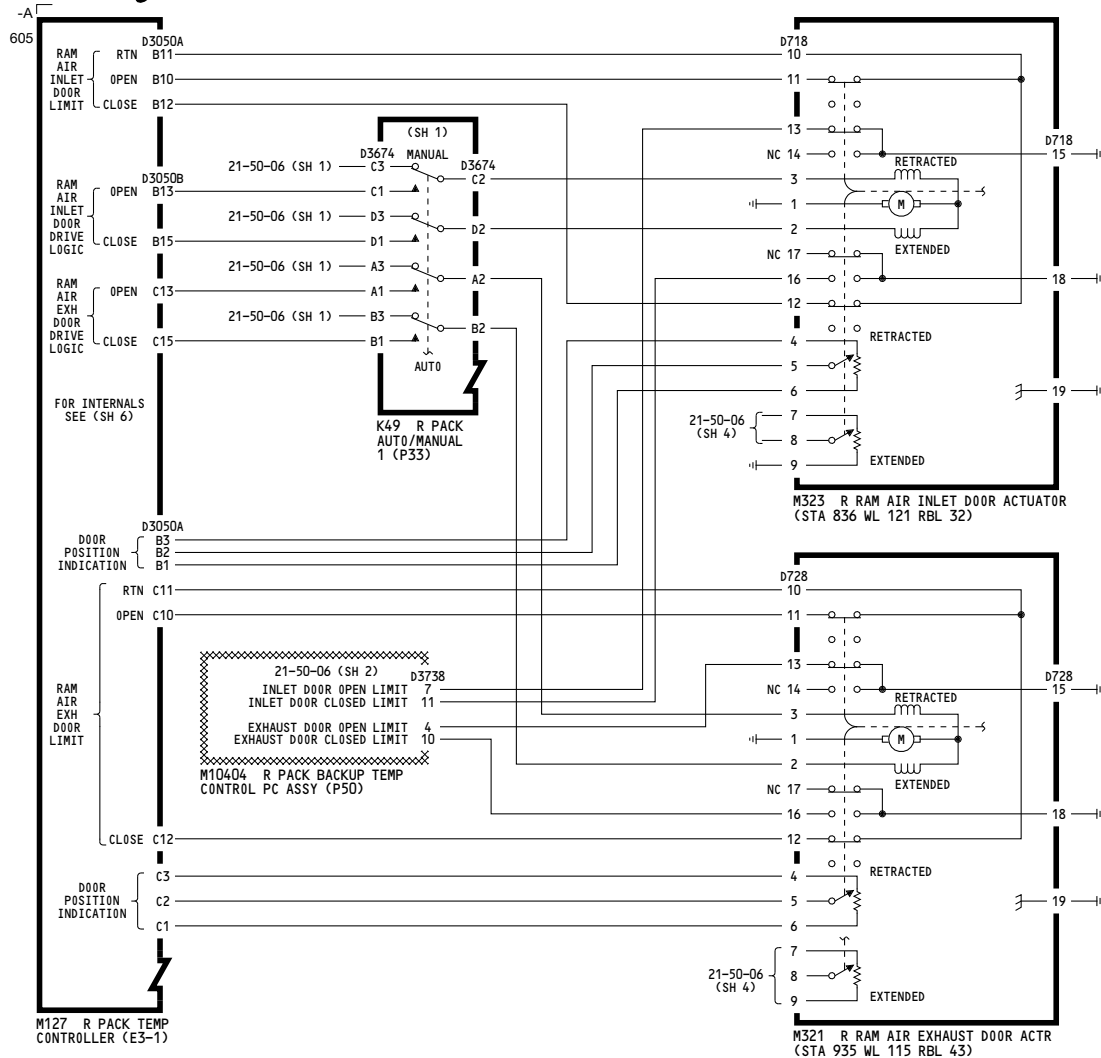
21-50-04

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WIRING DIAGRAMS
21-51-22



21-50-04



NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.

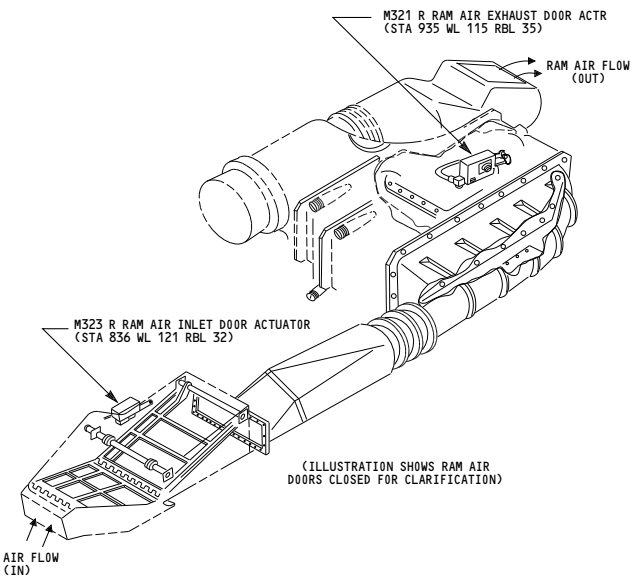
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**PACK AUTO CONTROL-
RIGHT**

D280T232

WIRING DIAGRAMS

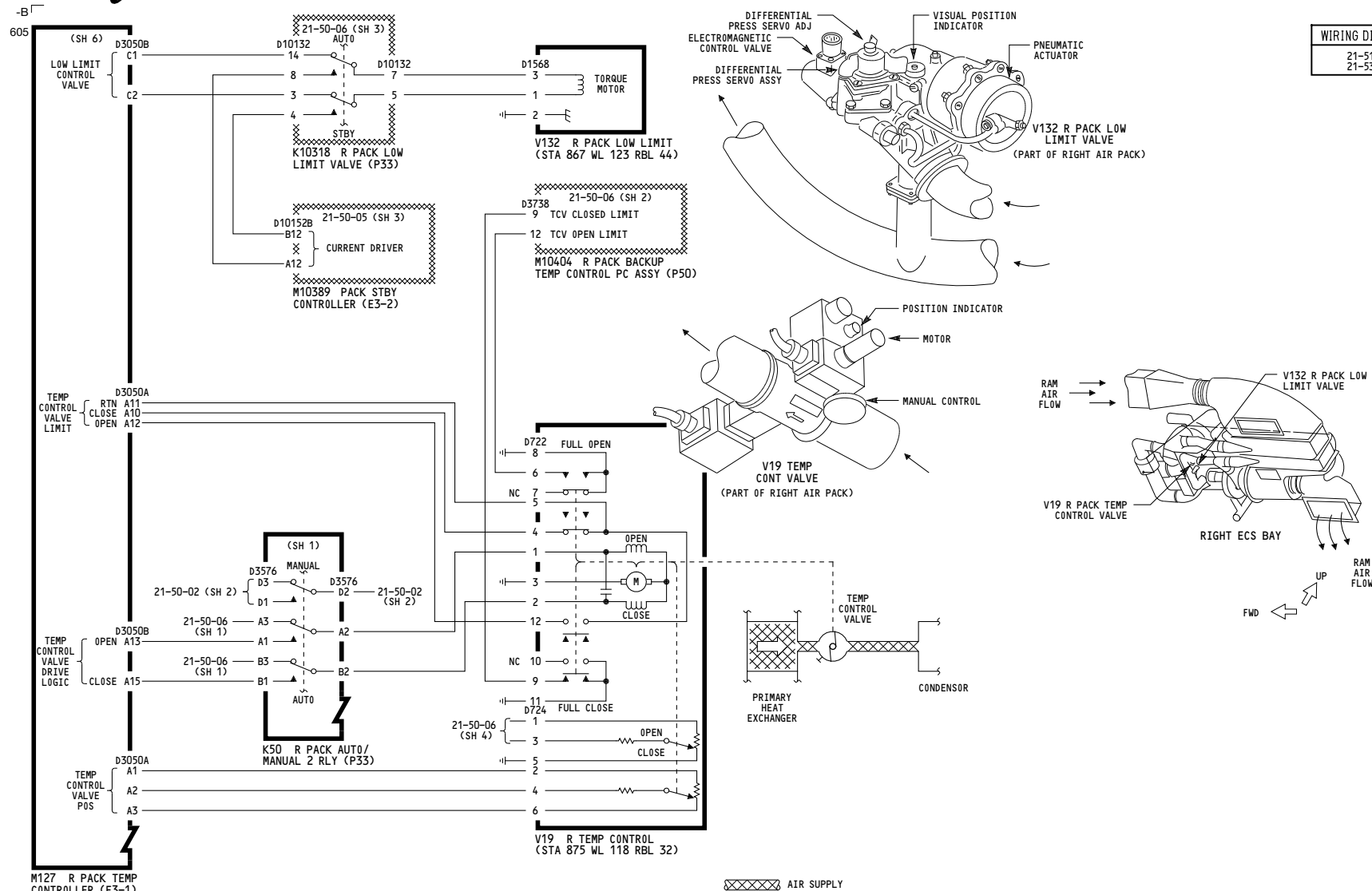
21-53-21



(ILLUSTRATION SHOWS RAM AIR DOORS CLOSED FOR CLARIFICATION)

21-50-04

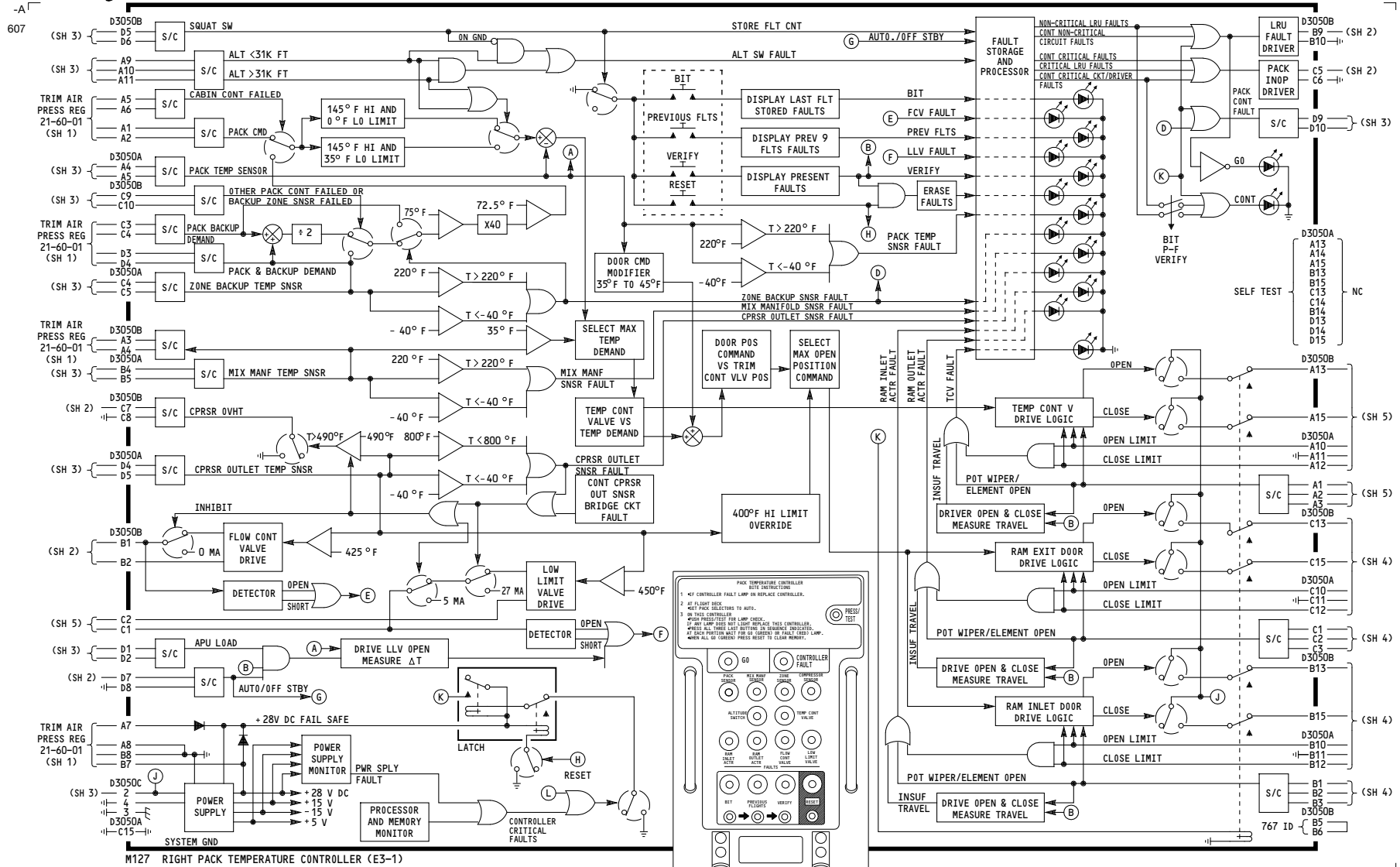
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WIRING DIAGRAMS
21-51-22
21-53-21

21-50-04

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**PACK AUTO CONTROL-
RIGHT**

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21-50-04

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WIRING DIAGRAMS

21-51-21
21-53-21

SECONDARY HEAT EXCHANGER

AIR FLOW

20-50-02 (SH 1)

D1562

2 21-50-02 (SH 1)

1 4"

490°F (254.4°C)

S556 R PACK CPRSR OUT OVHT (STA 879, WL 124, RBL 44) (PART OF RIGHT AIR PACK)

COMPRESSOR

AIR CYCLE MACHINE

TEMP CONT VLV

PRIMARY HEAT EXCHANGER

CONDENSOR

21-50-02 (SH 1)

D668

2 21-50-02 (SH 1)

1 4"

190°F (87.8°C)

S49 R PACK OVHT (STA 859, WL 125, RBL 59) (PART OF RIGHT AIR PACK)

AIR FLOW TO MIX MANIFOLD

AIR FLOW FROM LOW LIMIT VALVE

21-50-02 (SH 1)

1 R PACK RESET

22 R PACK SW ON

9 R PACK NOT OVHT

5 ENG OFF

4 ENG ON

M864 R PACK FLOW CONTROL PC ASSY (P50)

D1342

15

27

29

21-50-02 (SH 1)

D10130

12

D10130

6

▲3 (SH 2)

K10316 R PACK AUTO./MANUAL NO. 3 (P33)

D3674

X1

D3674

X2

▲3 (SH 4)

K49 R PACK AUTO./MANUAL NO. 1 (P33)

D3676

X1

D3676

X2

▲3 (SH 2)

K50 R PACK AUTO./MANUAL NO. 2 (P33)

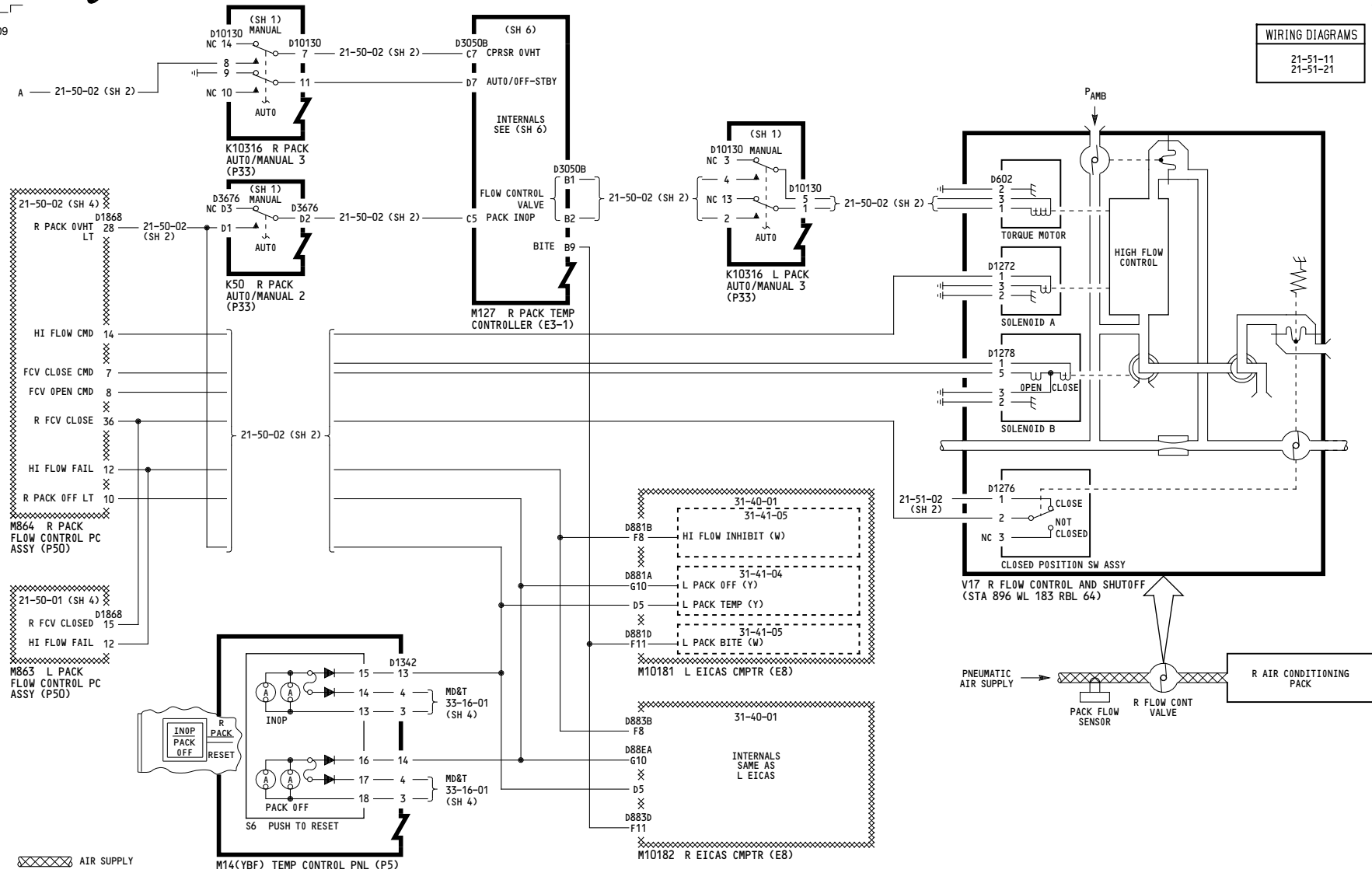
280-299

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WIRING DIAGRAMS
21-51-11
21-51-21

609



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PACK AUTO CONTROL-
RIGHT

D280T232

21-50-04

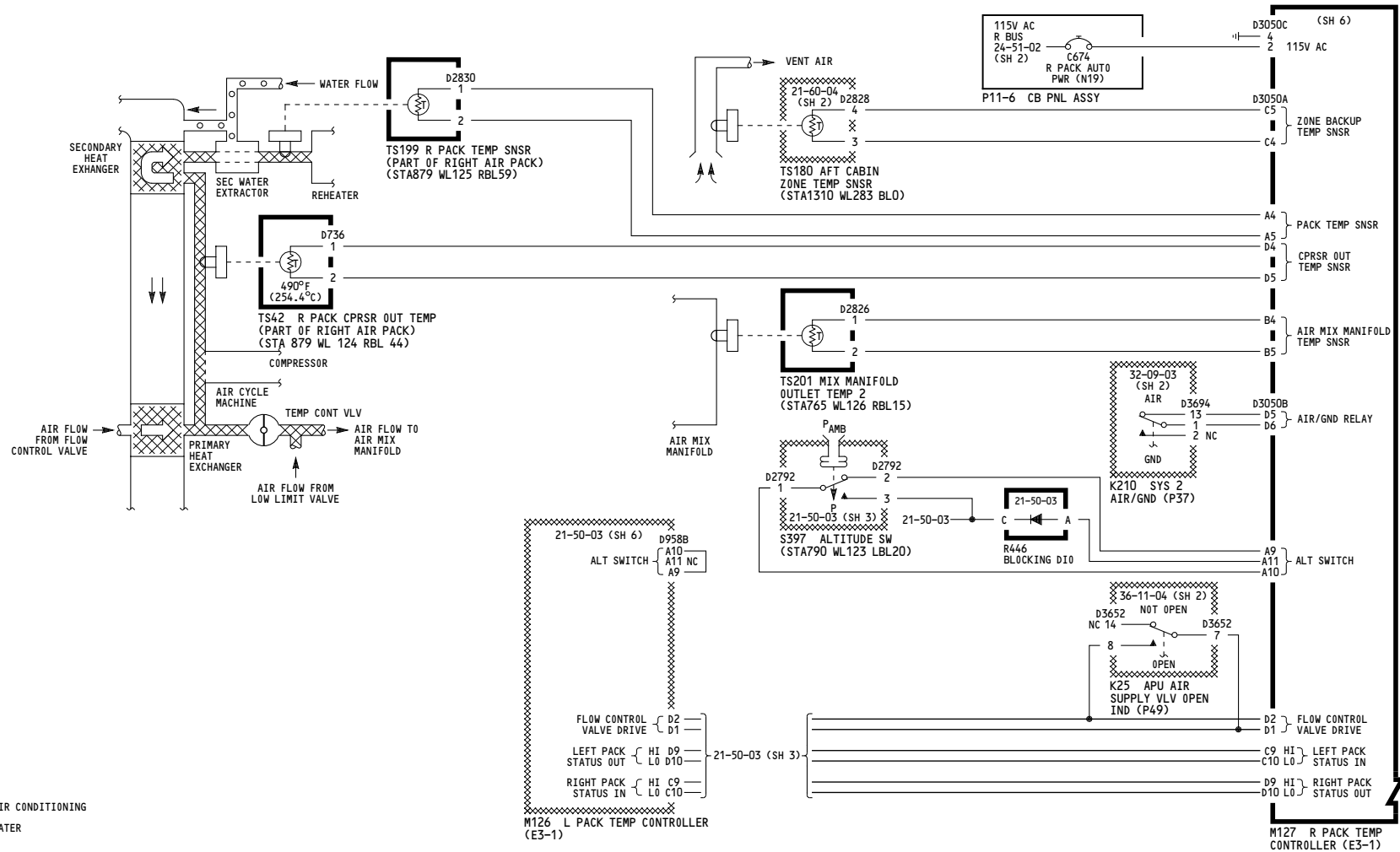
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-A

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WIRING DIAGRAMS

21-51-22

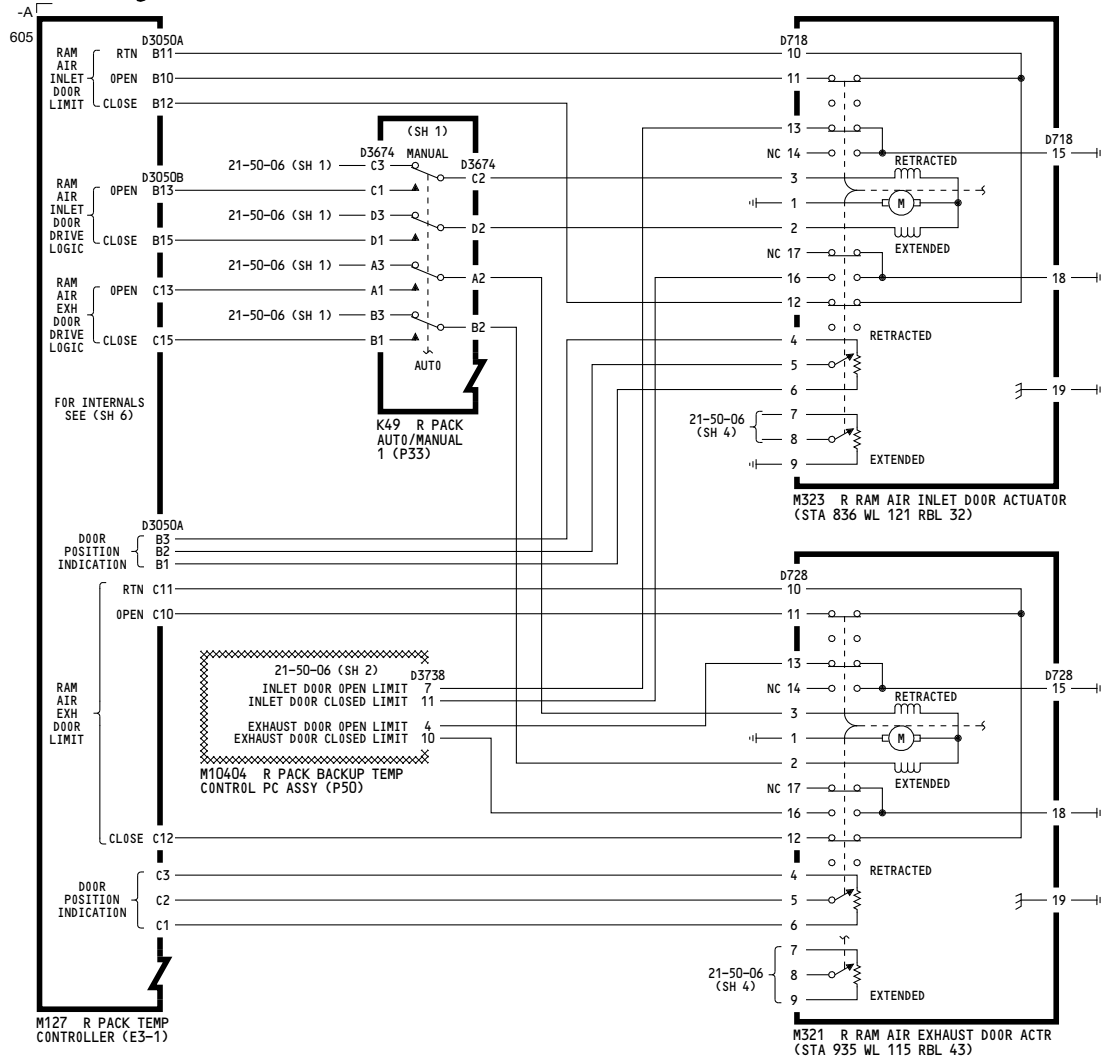


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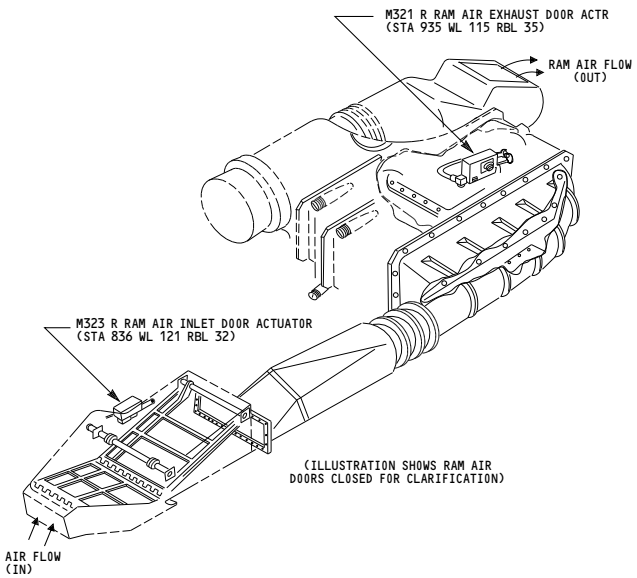
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WIRING DIAGRAMS

21-53-21



NOTE: WHEN RAM AIR ACTUATORS ARE IN EXTENDED POSITION - RAM AIR DOORS ARE CLOSED.



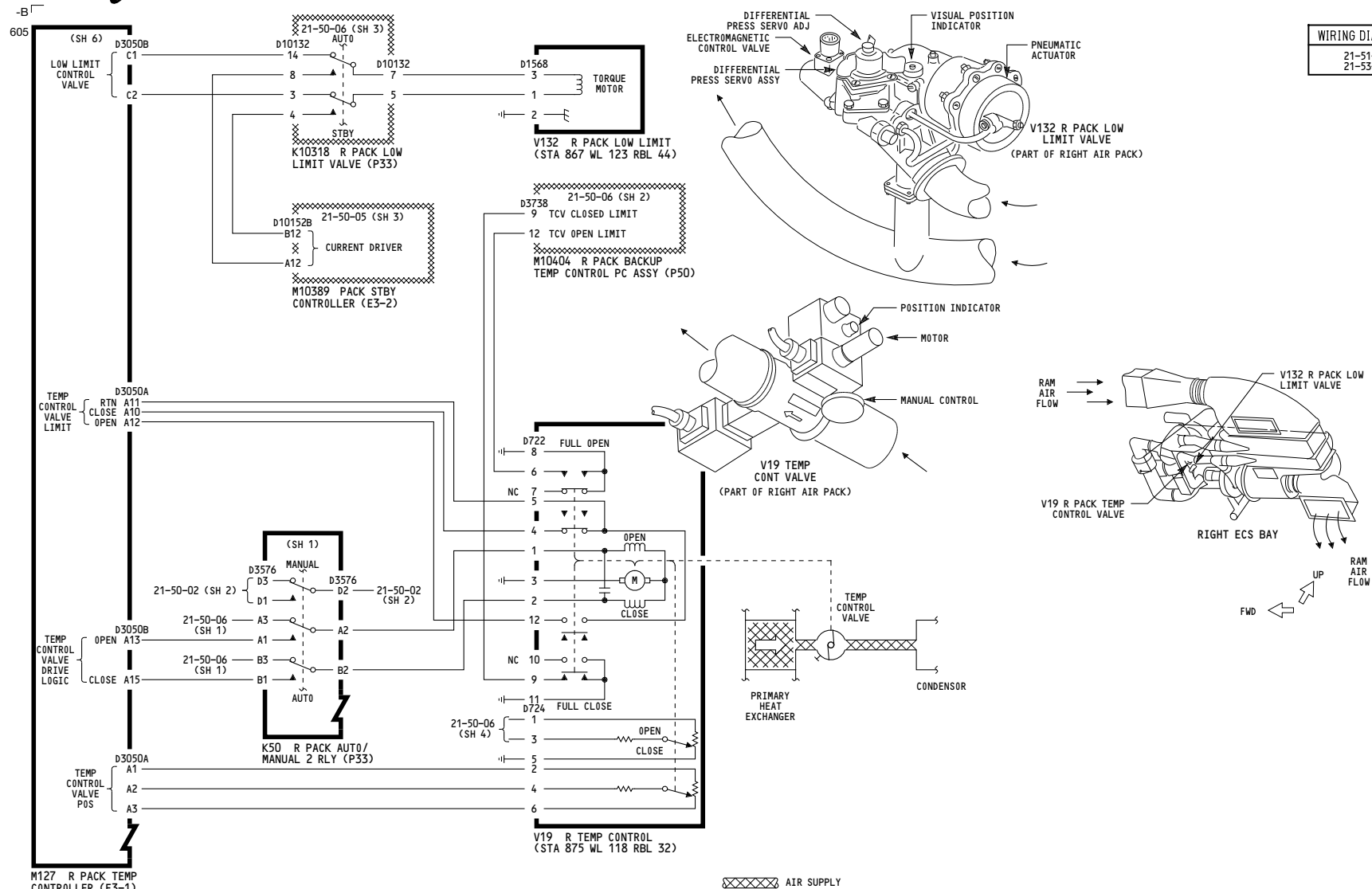
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**PACK AUTO CONTROL-
RIGHT**

D280T232

21-50-04

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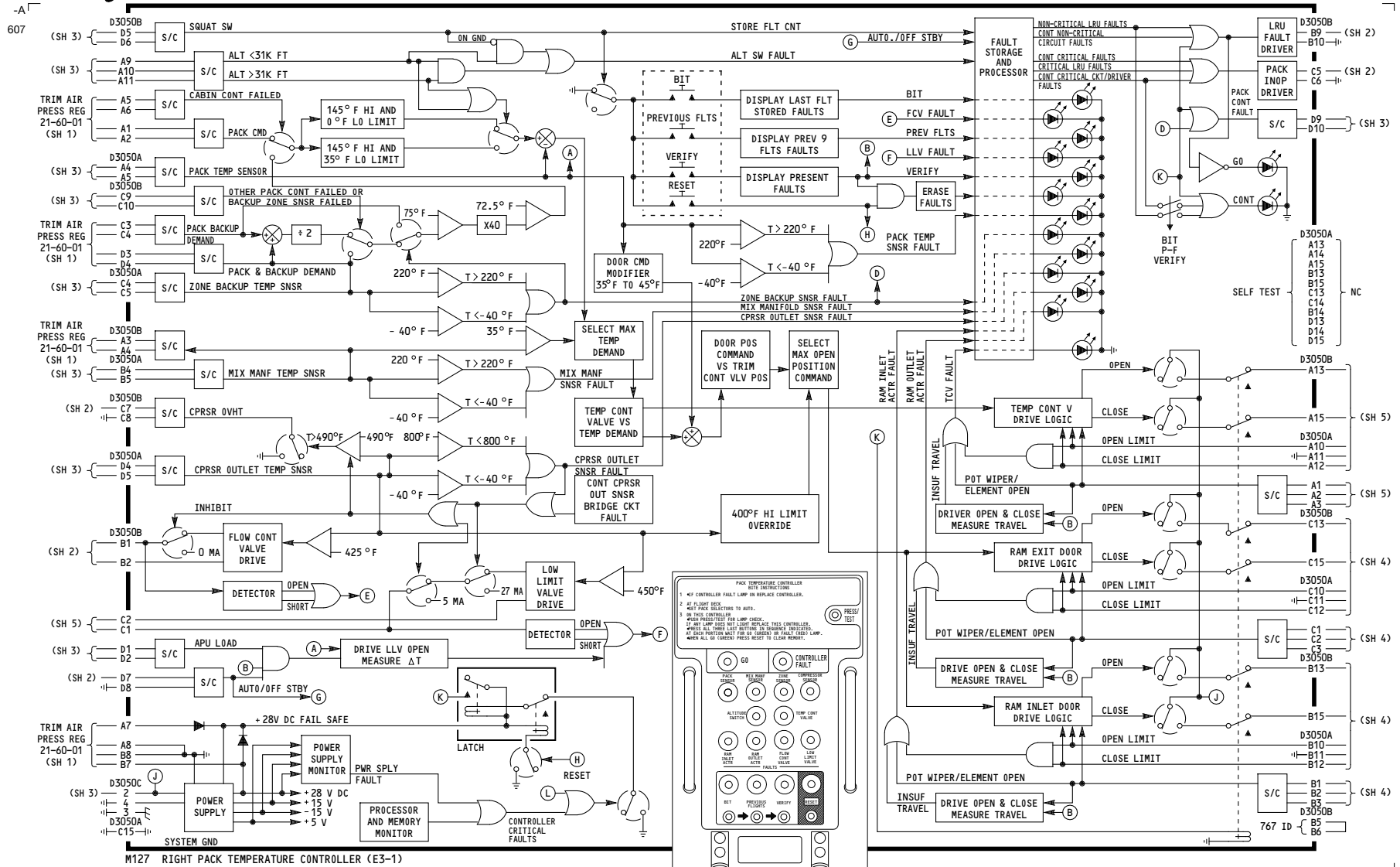
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**PACK AUTO CONTROL-
RIGHT**

D280T232

21-50-04

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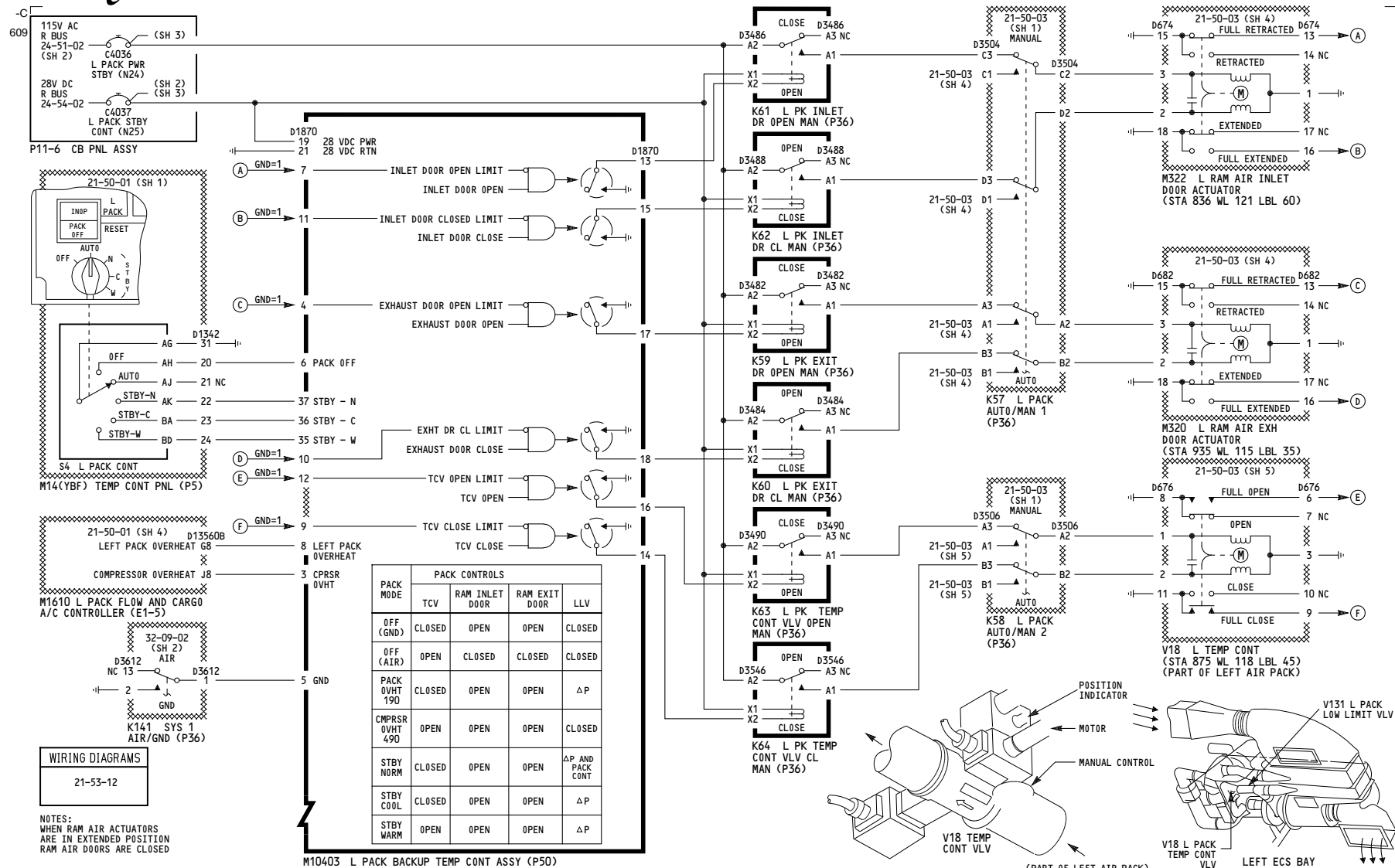
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**PACK AUTO CONTROL-
RIGHT**

D280T232

21-50-04

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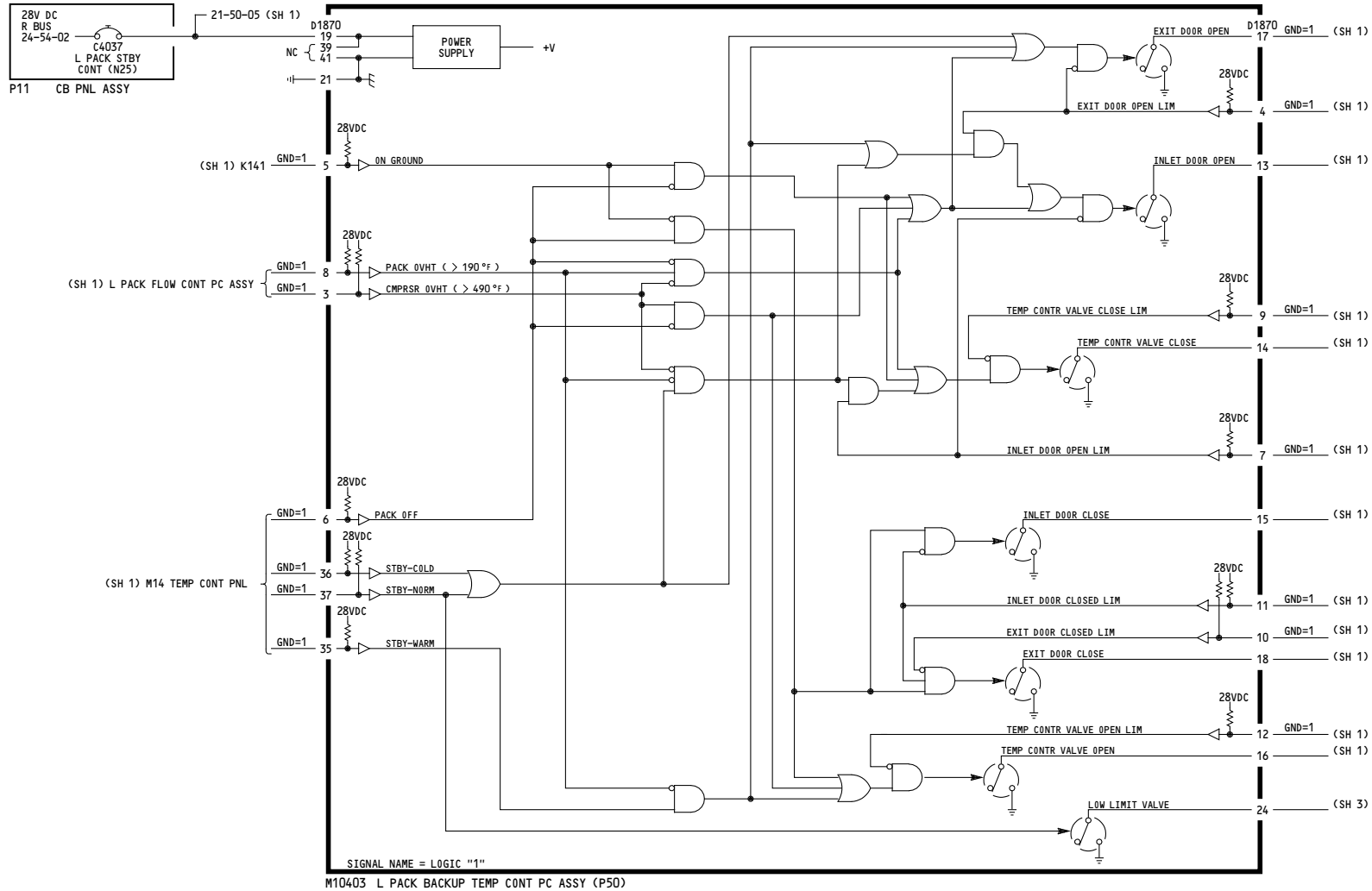
050-099, 150-199, 275-278

PACK STANDBY CONTROL-LEFT

D280T232

21-50-05

-D
605



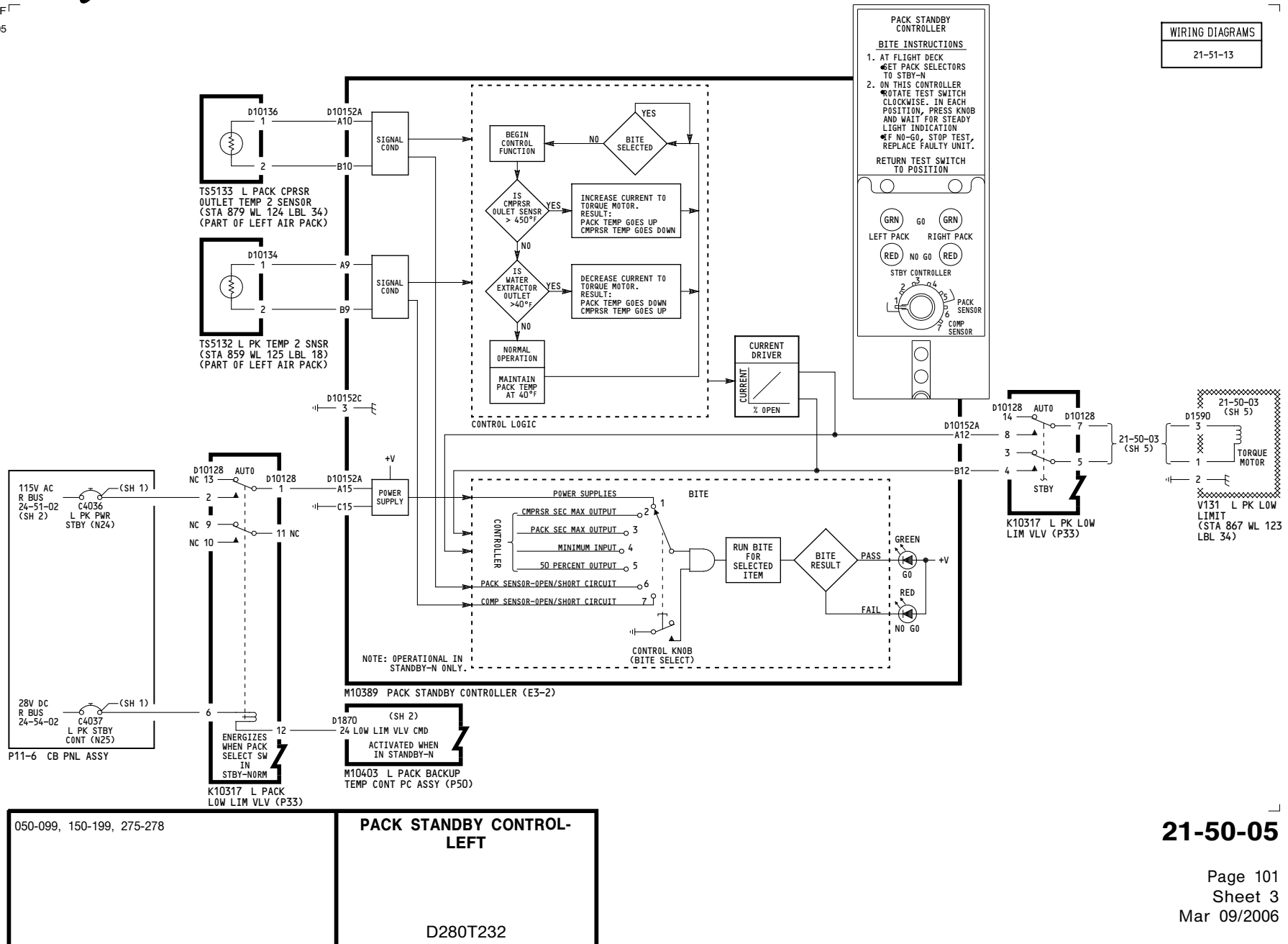
050-099, 150-199, 275-278

**PACK STANDBY CONTROL-
LEFT**

D280T232

21-50-05


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NOTES:
WHEN RAM AIR ACTUATORS ARE IN
EXTENDED POSITION RAM AIR DOORS ARE CLOSED.

1 L SIDE PARAMETERS PASSED TO
R EICAS CMPTR VIA CROSSTALK BUS

 AIR SUPPLY

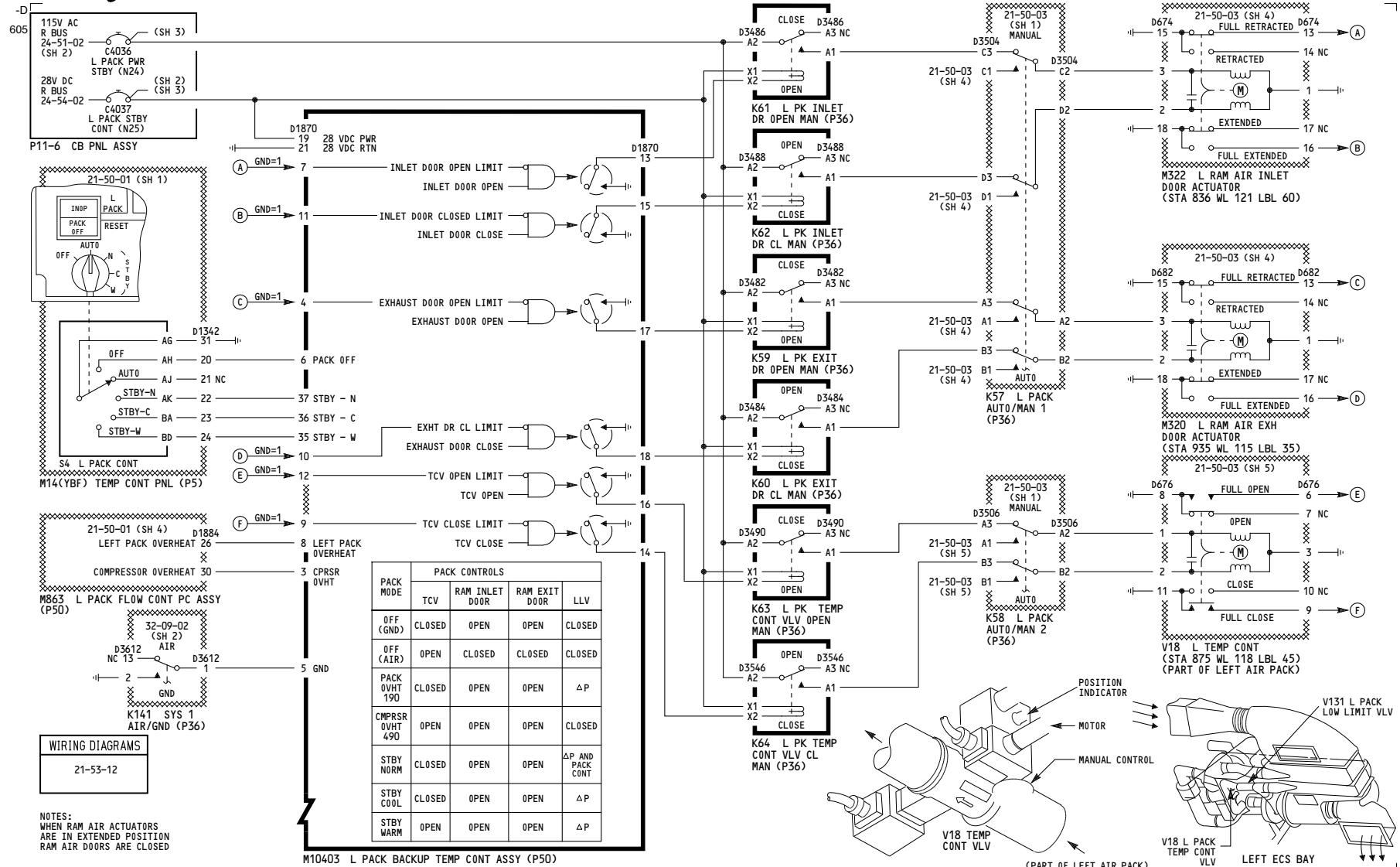
TEMP CONT VALVE & RAM AIR DOOR(S) POSITION INDICATION

050-099, 150-199, 275-278

**PACK STANDBY CONTROL-
LEFT**

D280T232

21-50-05



280-299

PACK STANDBY CONTROL-LEFT

D280T232

21-50-05

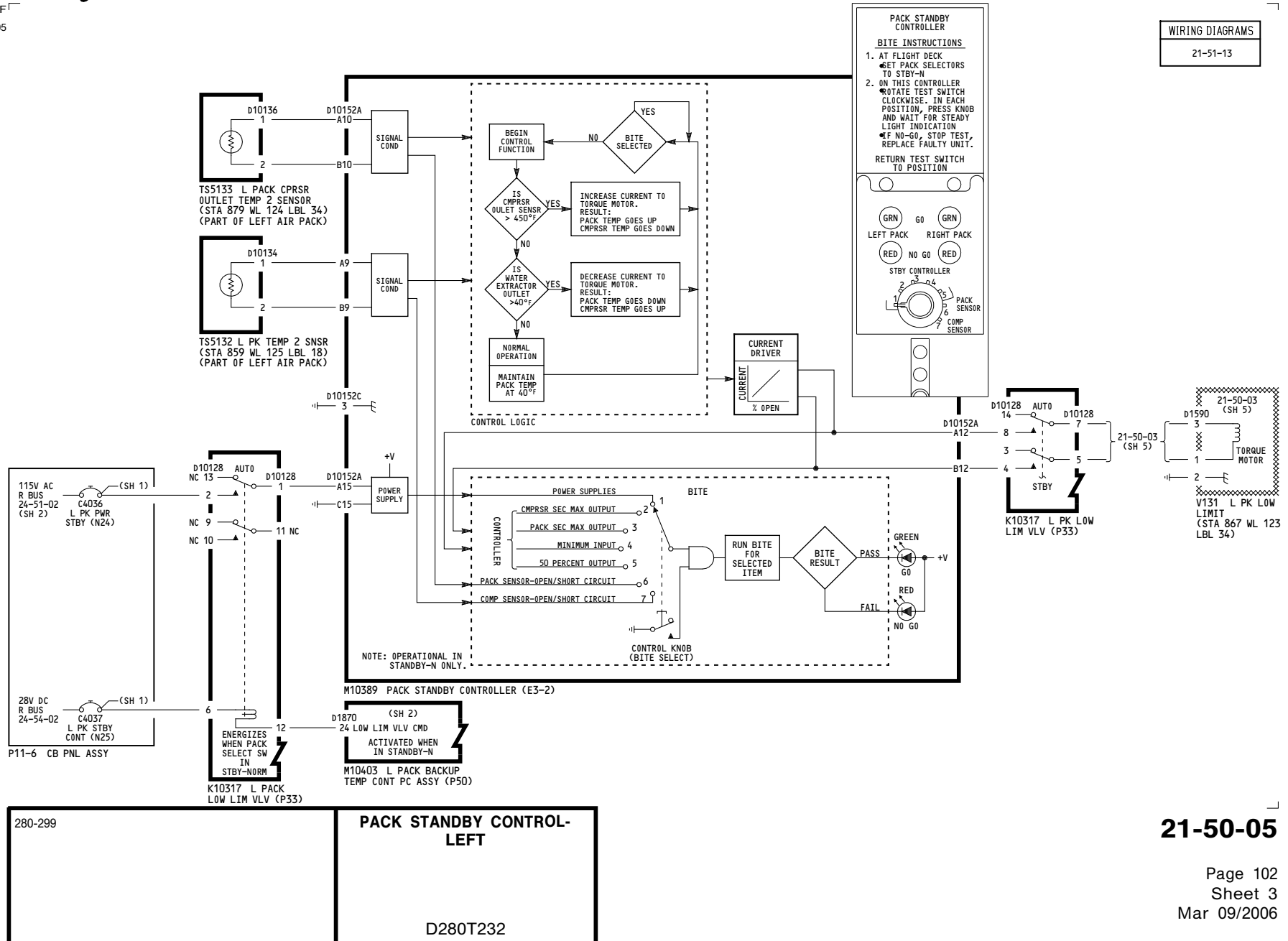
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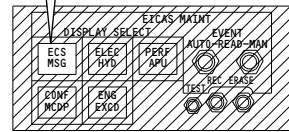
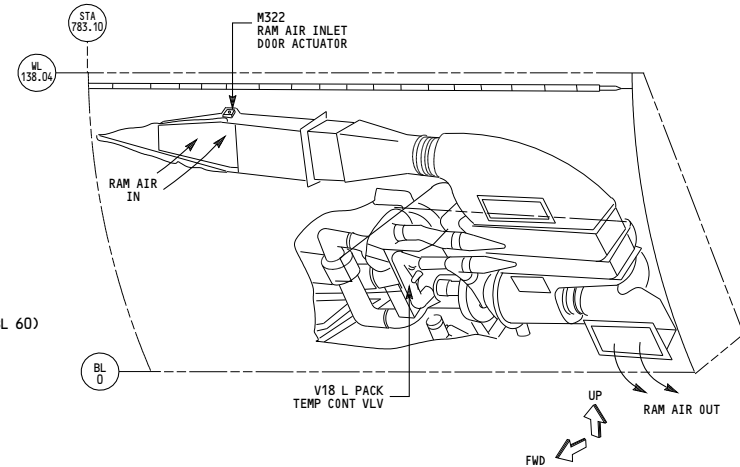


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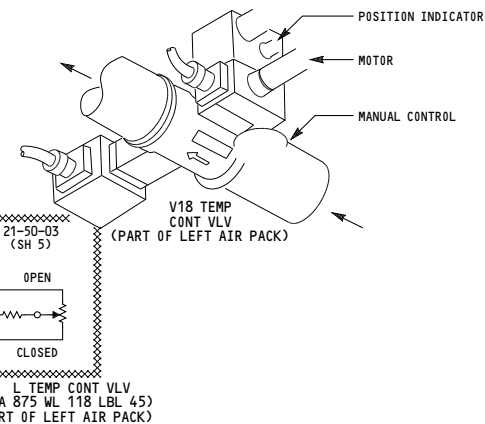
-F-
605

WIRING DIAGRAMS
21-51-13





M10372 EICAS MAINTENANCE PANEL (P61)
31-41-07 (SH 2)



NOTES:
WHEN RAM AIR ACTUATORS ARE IN
EXTENDED POSITION RAM AIR DOORS ARE CLOSED

1 OTHER PARAMETERS DERIVED FROM
EICAS CROSSTALK BUS

TEMP CONT VALVE & RAM AIR DOOR(S) POSITION INDICATION

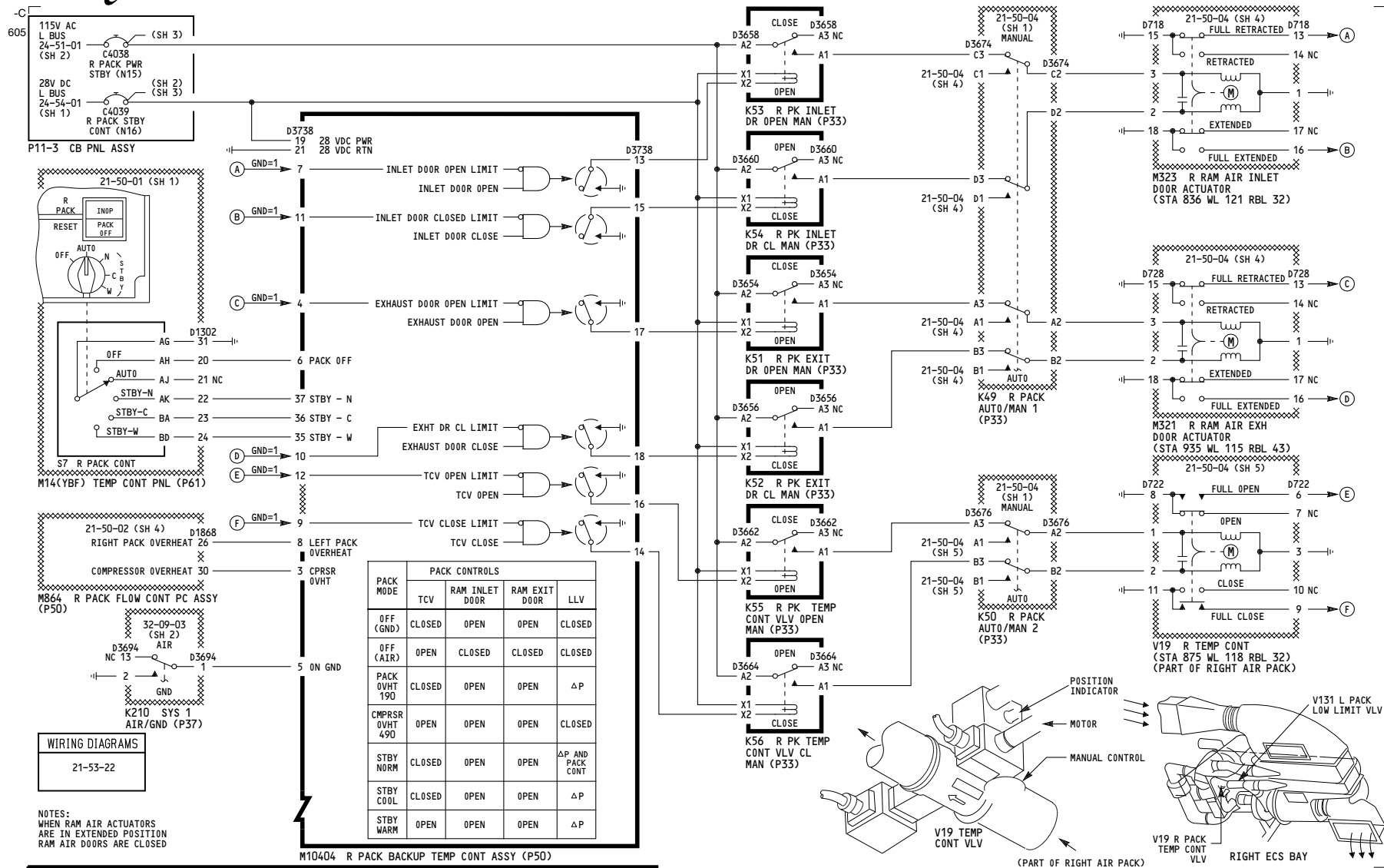
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PACK STANDBY CONTROL- LEFT

D280T232

21-50-05

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050-099, 150-199, 275-278

PACK STANDBY CONTROL-RIGHT

D280T232

21-50-06

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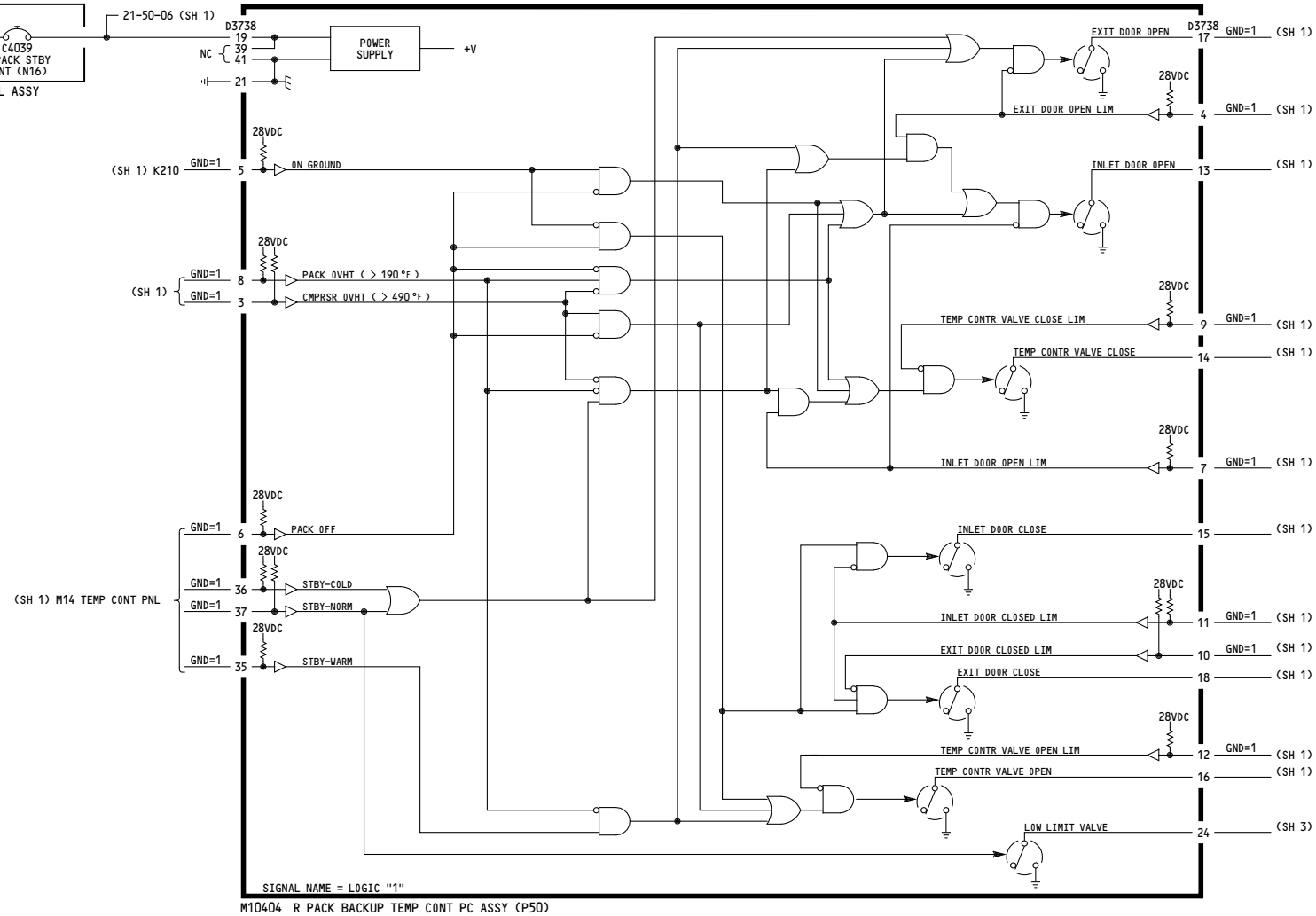


28V DC
L BUS
24-54-01

C4039

R PACK STBY
CONT (N16)

P11 CB PNL ASSY



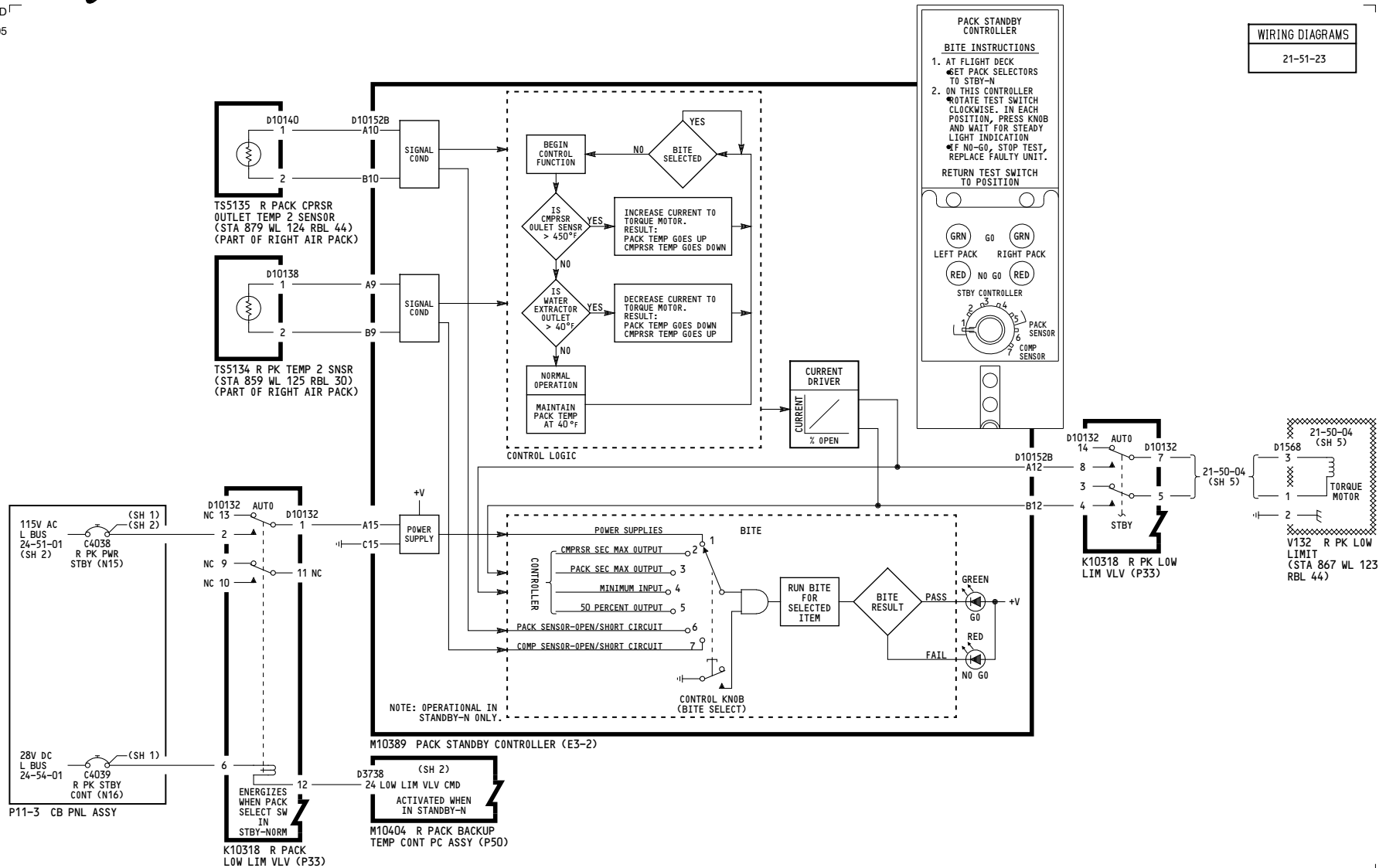
**PACK STANDBY CONTROL-
RIGHT**

21-50-06

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WIRING DIAGRAMS
21-51-23



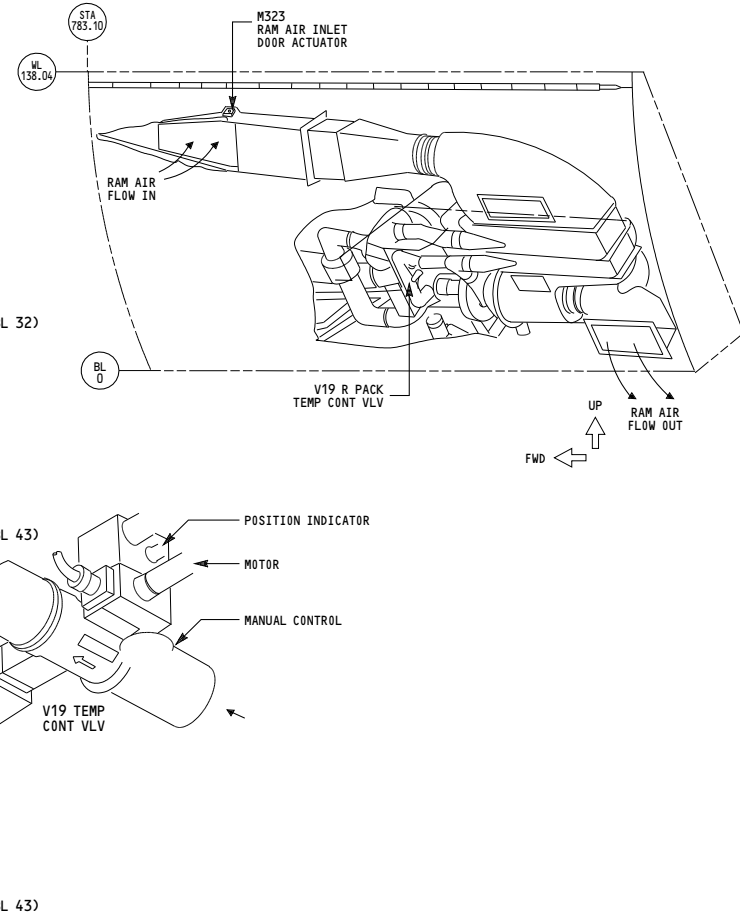
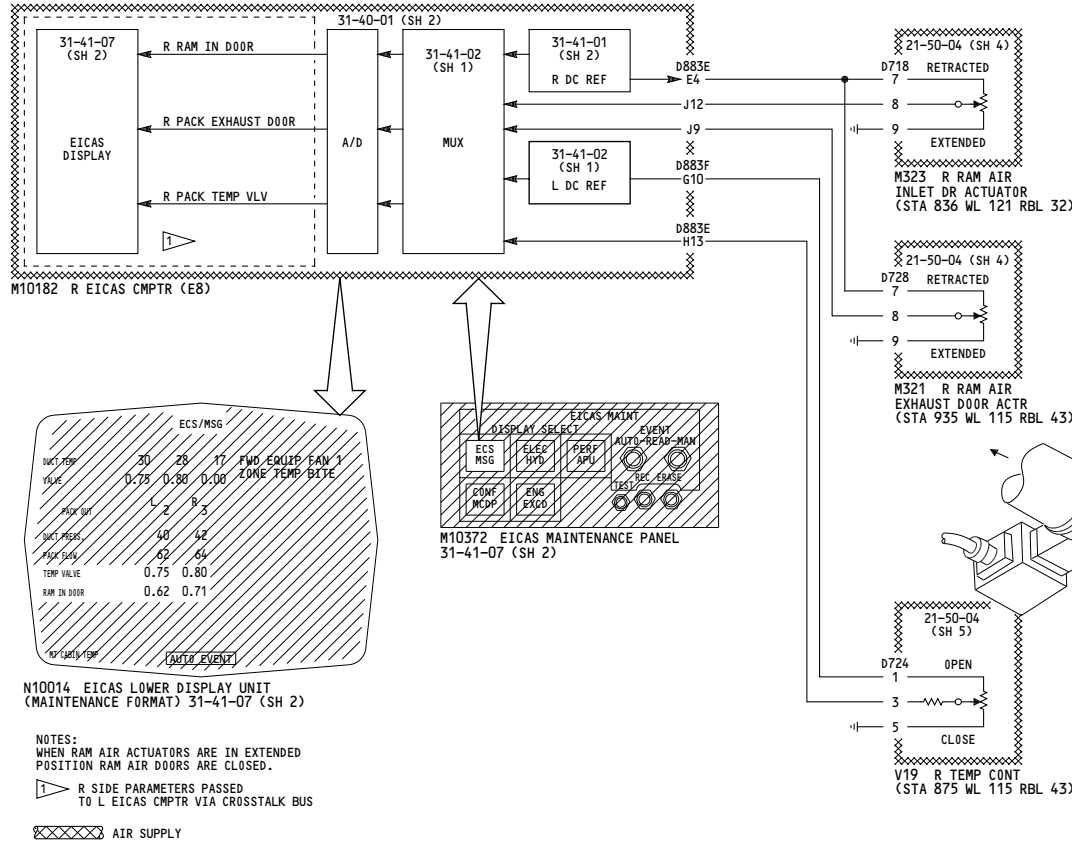
050-099, 150-199, 275-278

**PACK STANDBY CONTROL-
RIGHT**

D280T232

21-50-06

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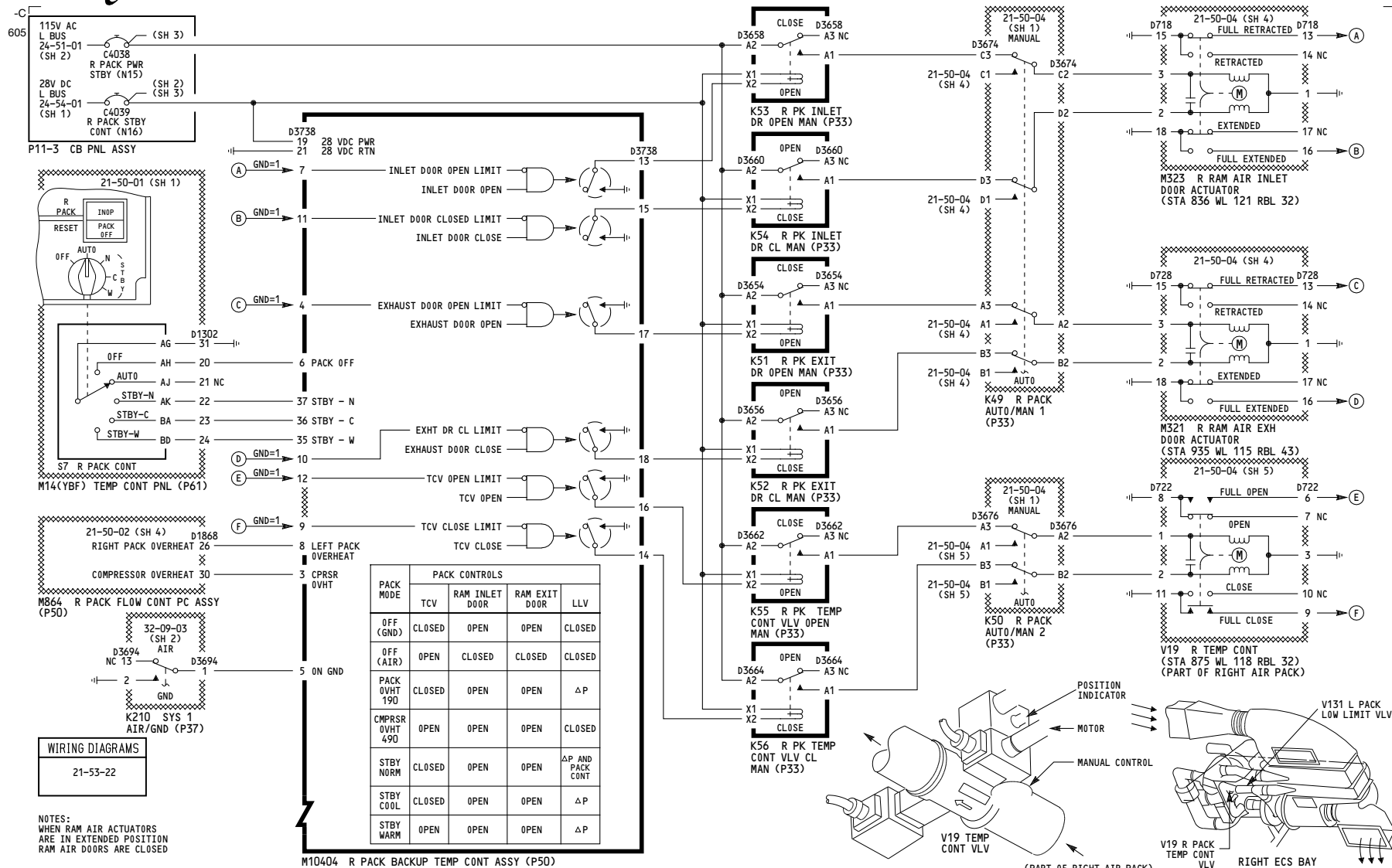
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**PACK STANDBY CONTROL-
RIGHT**

D280T232

21-50-06

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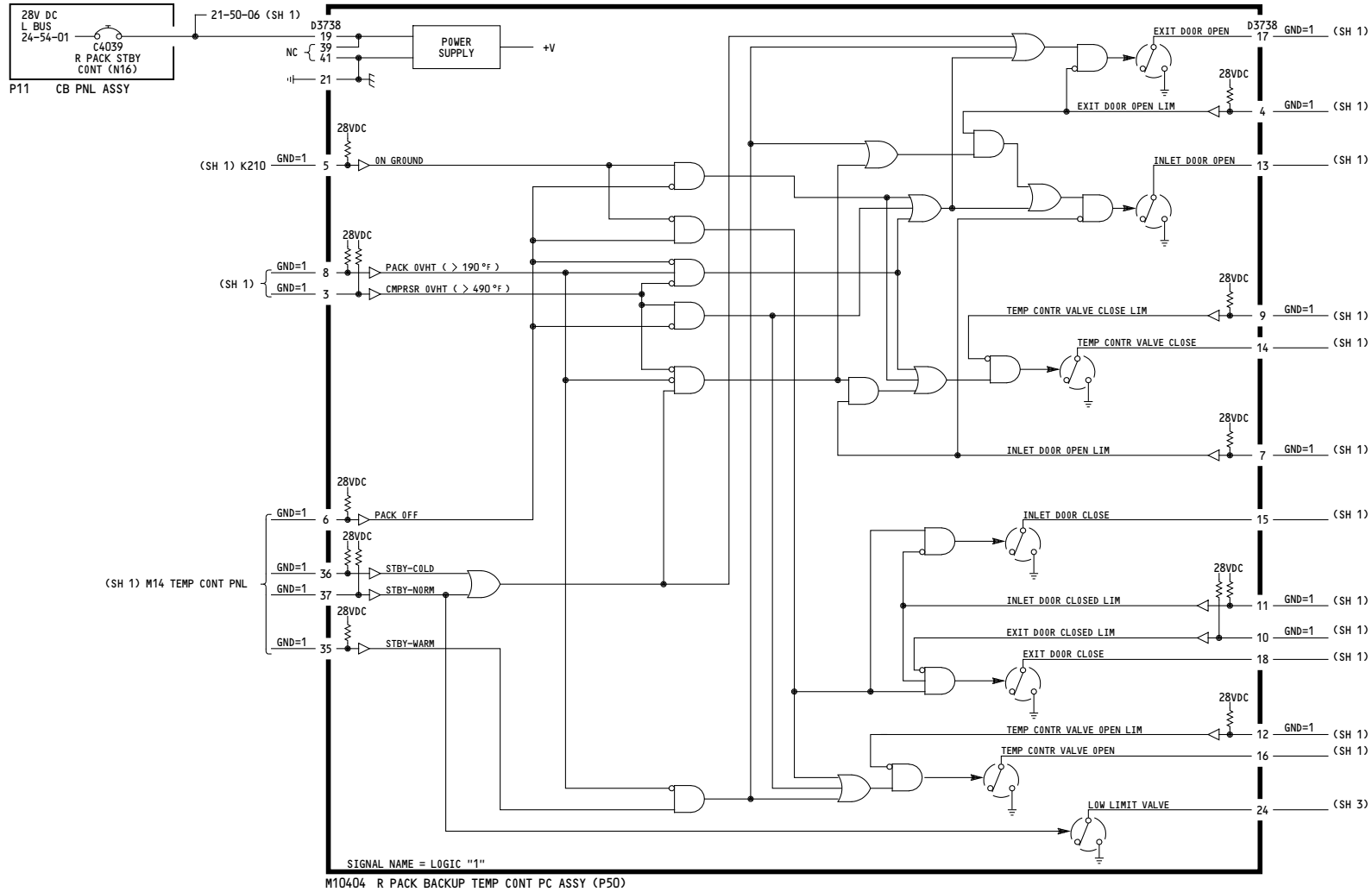
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PACK STANDBY CONTROL- RIGHT

D280T232

21-50-06

-B
605



280-299

**PACK STANDBY CONTROL-
RIGHT**

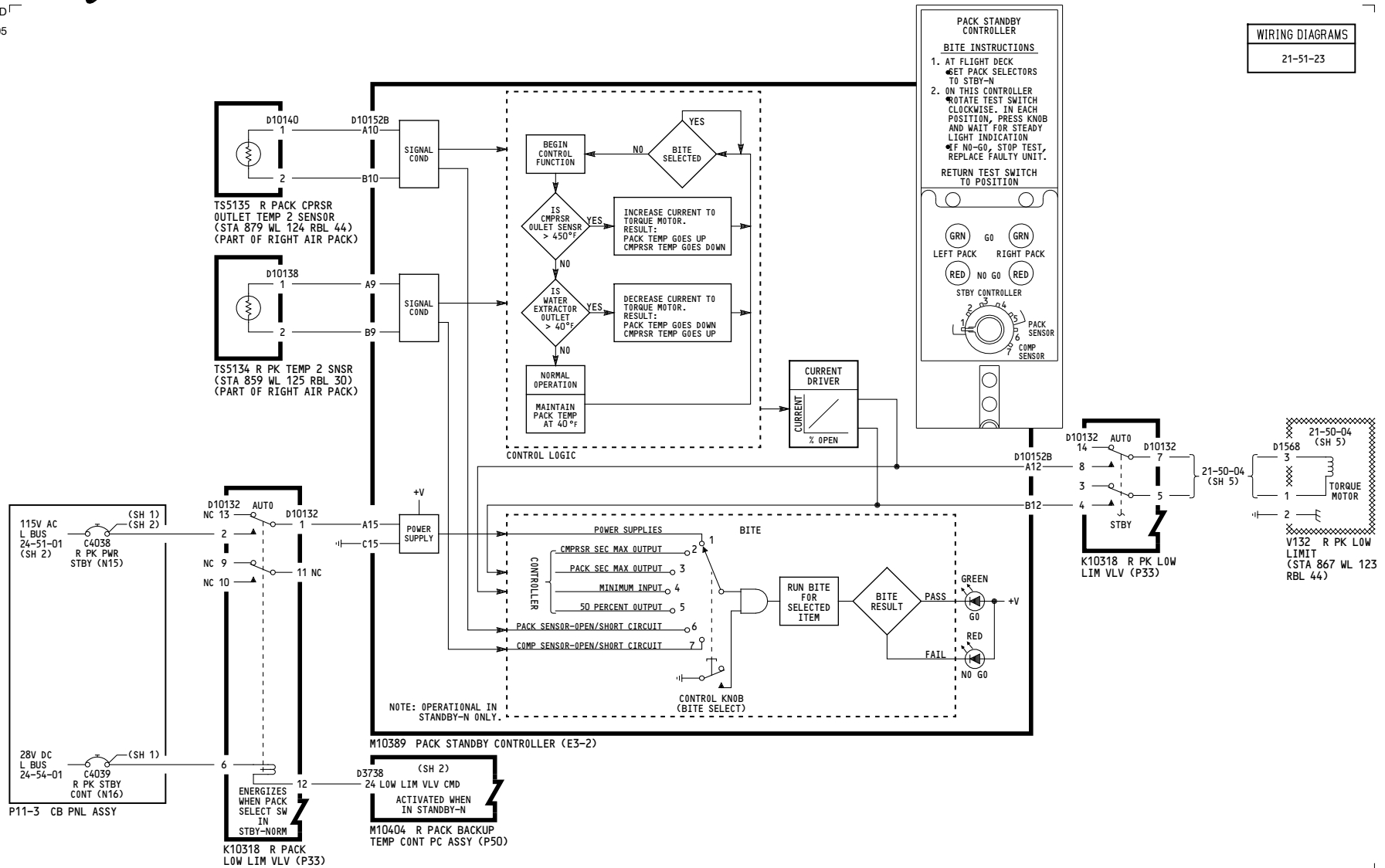
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21-50-06

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WIRING DIAGRAMS
21-51-23

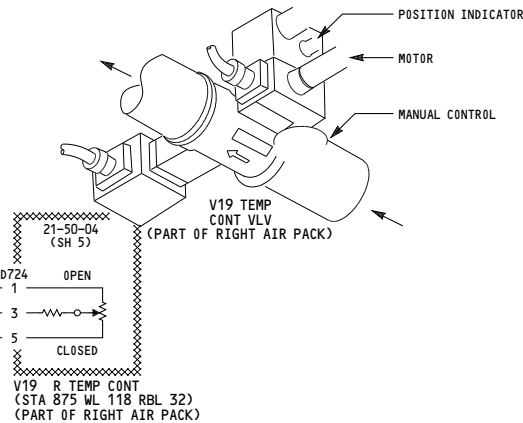
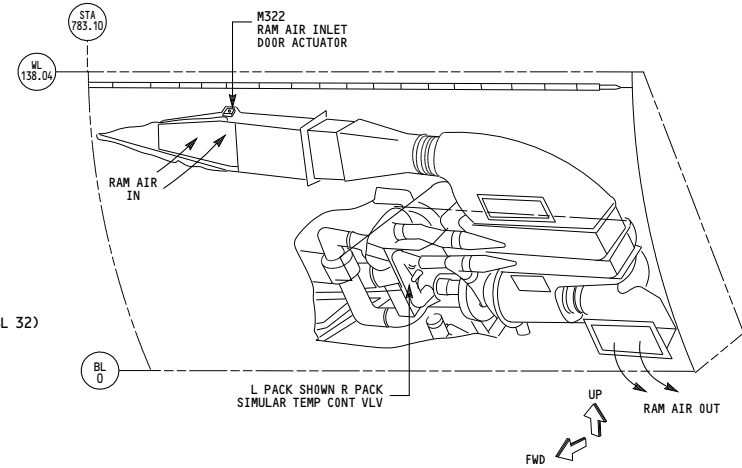
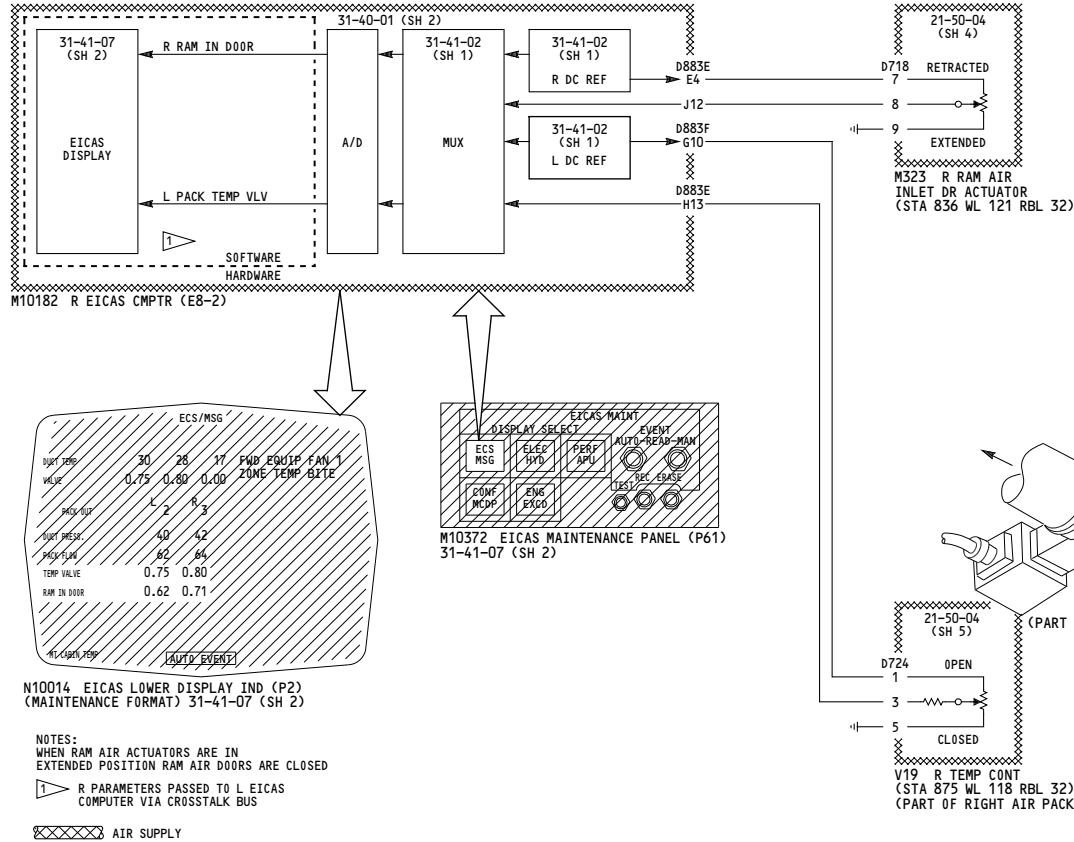


**PACK STANDBY CONTROL-
RIGHT**

D280T232

21-50-06

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TEMP CONT VALVE & RAM AIR DOOR(S) POSITION INDICATION

280-299

**PACK STANDBY CONTROL-
RIGHT**

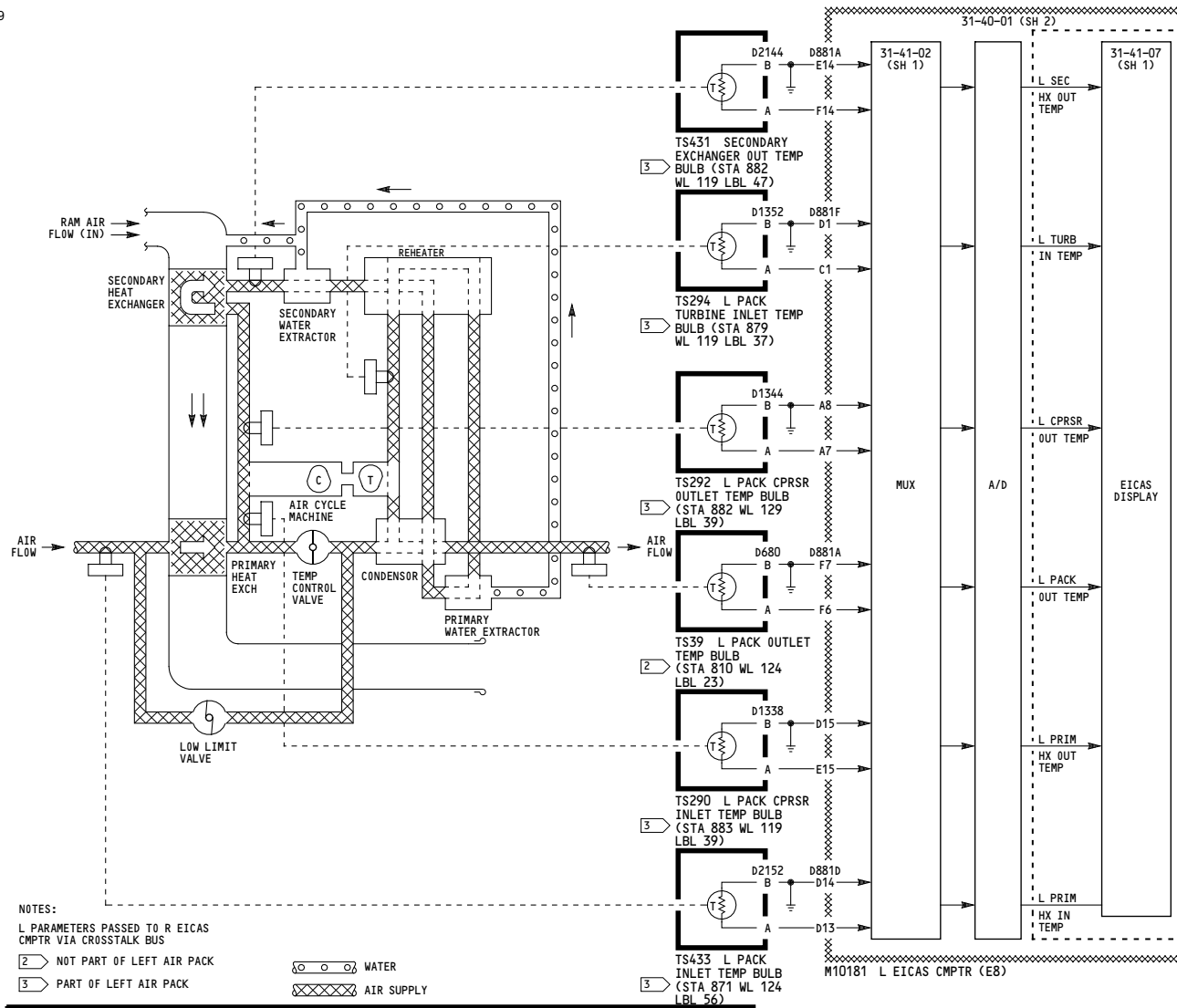
D280T232

21-50-06

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609

WIRING DIAGRAMS
21-52-31



STATUS

	L	R
PACK OUT	2	3
TURB IN	9	10
SEC HX OUT	1	3
COMPR OUT	96	98
PRIM HX OUT	44	46
PRIM HX IN	171	173

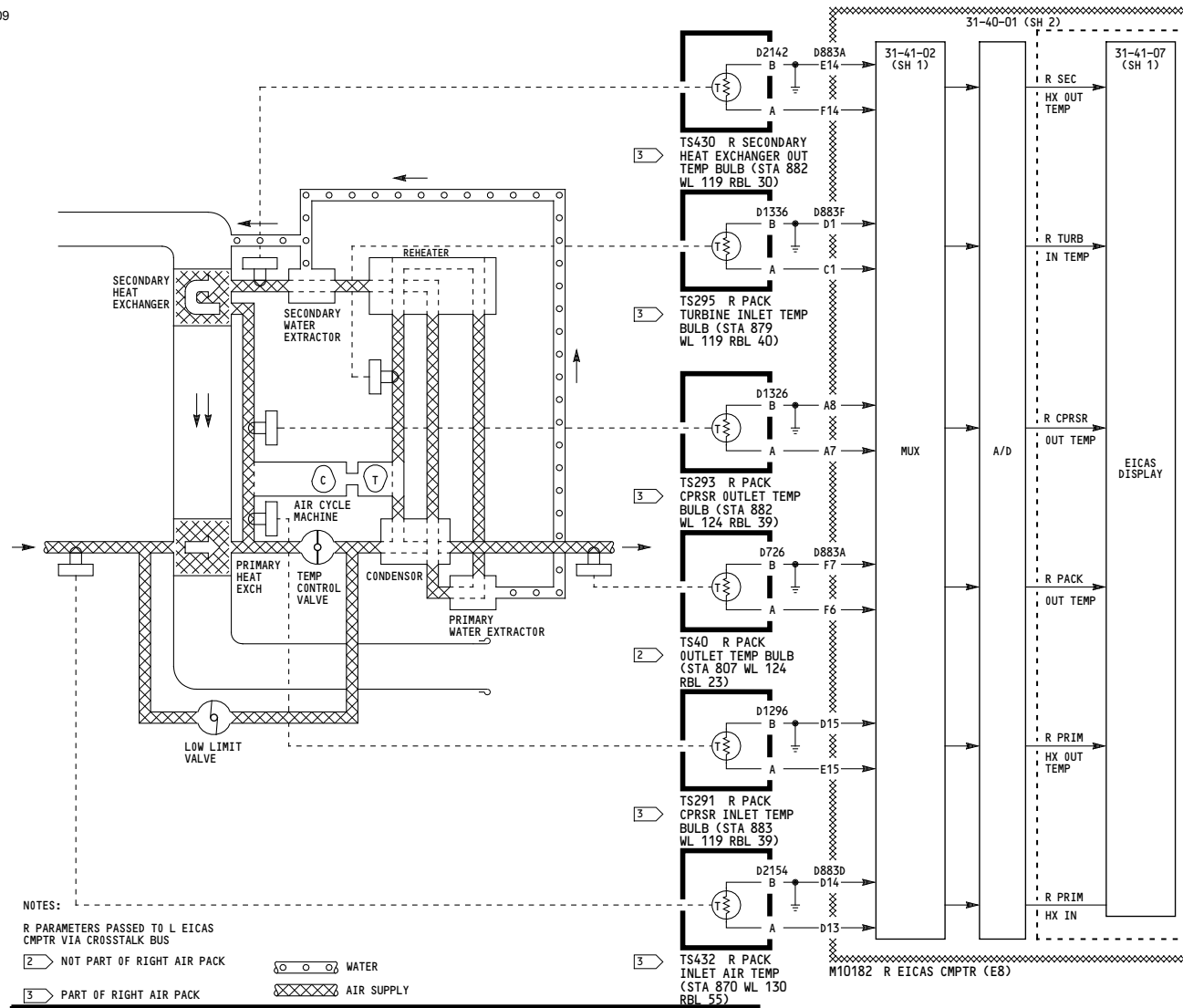
N10014 EICAS LOWER DISPLAY (P2)
(MAINTENANCE FORMAT)
31-41-07 (SH 2)

ALL	PACK TEMPERATURE INDICATION-LEFT
	D280T232

21-50-07

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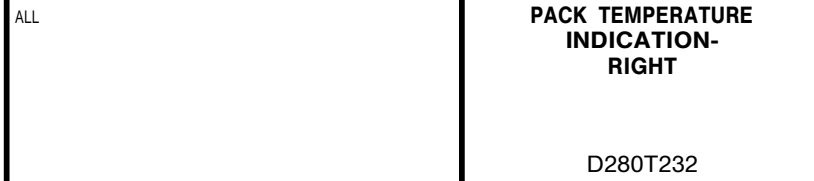


STATUS

ECS/MSG

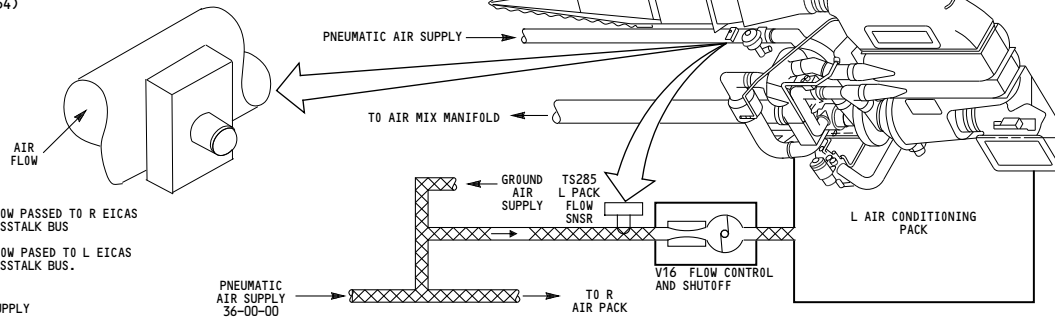
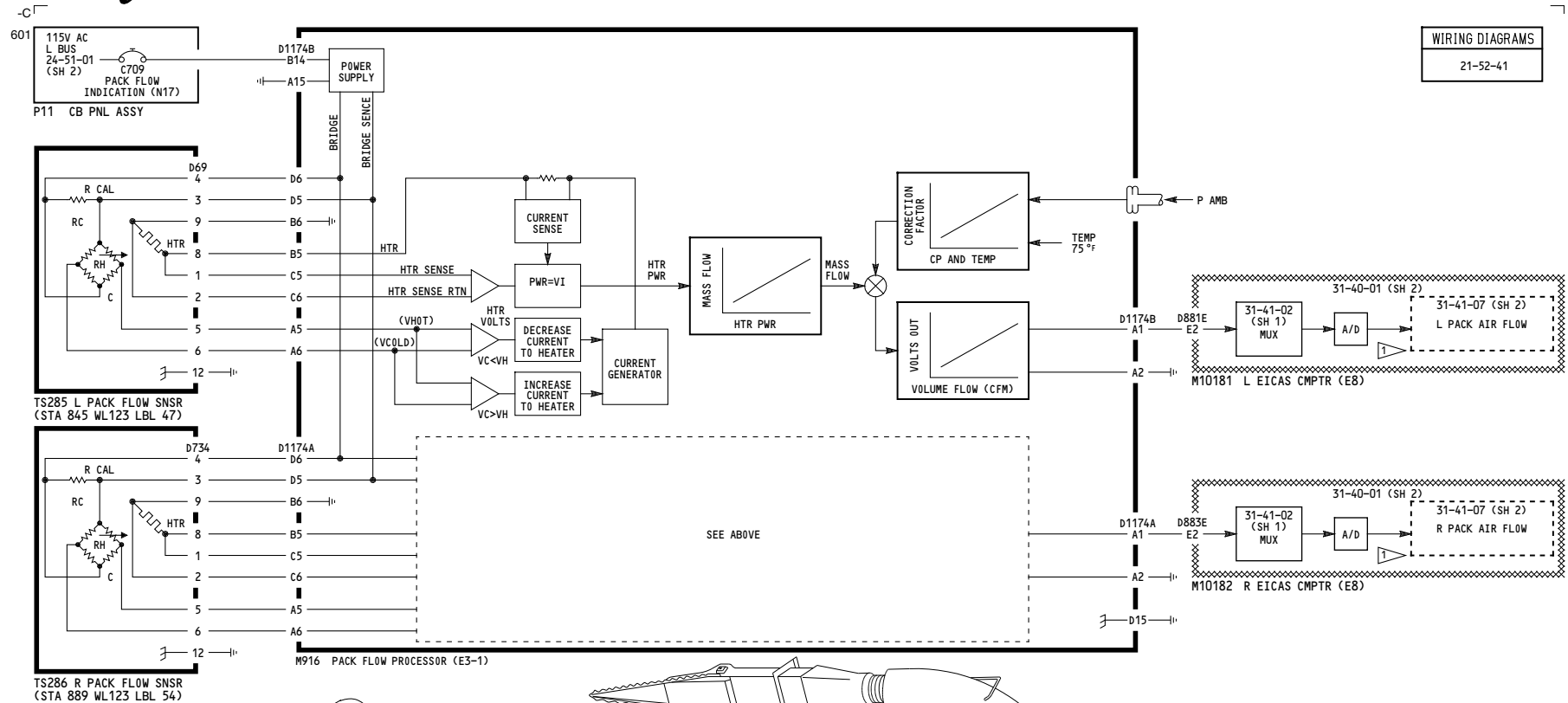
PACK OUT	2	R 3
TURB IN	9	10
SEC HX OUT	1	3
COMPR OUT	96	98
PRIM HX OUT	44	46
PRIM HX IN	171	173

N10014 EICAS LOWER DISPLAY (P2)
(MAINTENANCE FORMAT)
31-41-07 (SH 2)



21-50-08

WIRING DIAGRAMS
21-52-41



ECS MSG
M10372 EICAS MAINTENANCE PNL 31-41-07 (SH 2)

PACK FLOW 62
N10014 EICAS LOWER DISPLAY UNIT (MAINTENANCE FORMAT) 31-41-07 (SH 2)

ALL

PACK FLOW INDICATION

D280T232

21-52-03

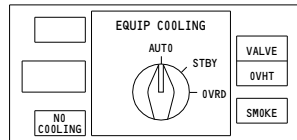
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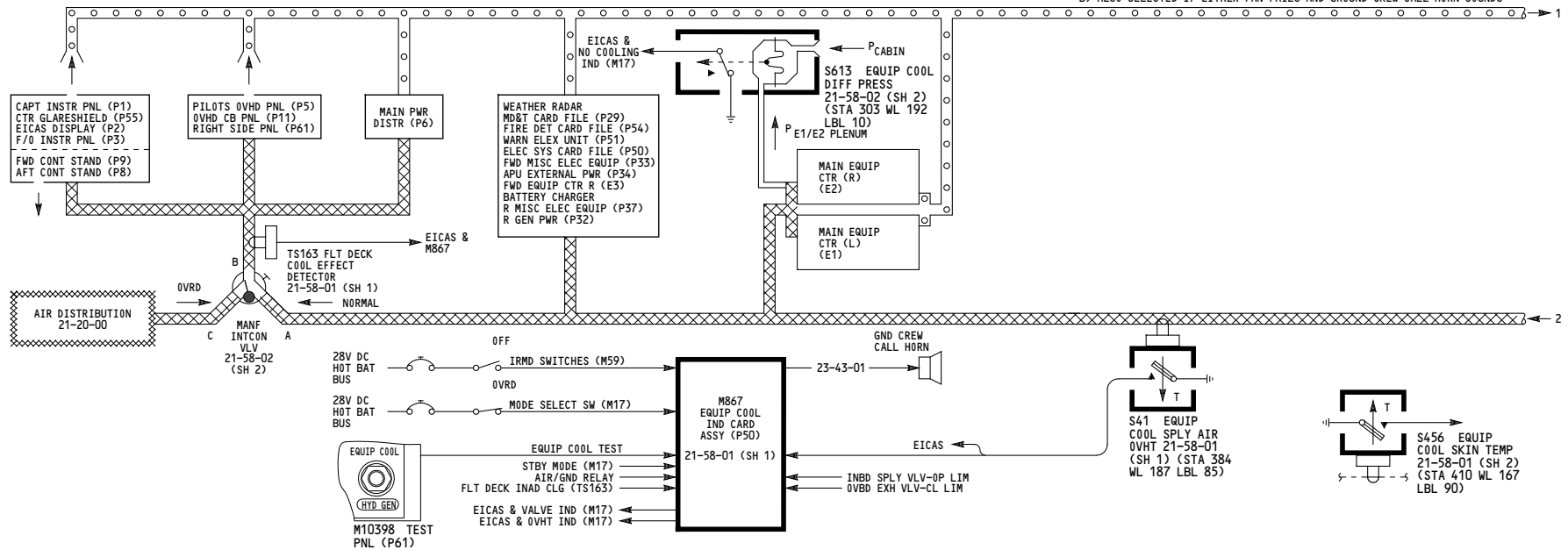
-C
617

		COMPONENT CONDITION / SCHEMATIC USAGE						
MODE		SUP FAN	EXH FAN	INBD SPLY VLV	GRD EXH VLV	HX/BY-PASS SOV	SMOKE/OVRD VLV	MANIF INTCON VLV
A U T O	GRD QAT < 45° F	ON	ON	OP	CL	OP	CL	A-B
	GRD QAT > 45° F	ON	ON	OP	OP	CL	CL	A-B
	GRD 2 ENGINES	ON	ON	CL	CL	OP	CL	A-B
	FLT *	OFF (ON)	ON (OFF)	CL	CL	OP	CL	A-B
S T B Y	GRD +	ON	ON	CL	CL	OP	CL	A-B
	FLT *	ON (OFF)	OFF (ON)	CL	CL	OP	CL	A-B
	OVRD	OFF	OFF	CL	CL	CL	OP	C-B



* AUTOMATIC SWITCHOVER OF FANS IN FLIGHT

+ A) SELECTED BY CREW IF GRD EXH VLV, INBD SPLY VLV AND/OR HX/BYPASS VLV FAIL
(1) TO CLOSE IN AUTO WITH BOTH ENGINES RUNNING.
B) ALSO SELECTED IF EITHER FAN FAILS AND GROUND CREW CALL HORN SOUNDS



XXXXX SUPPLY AIR
O O EXHAUST AIR

ALL

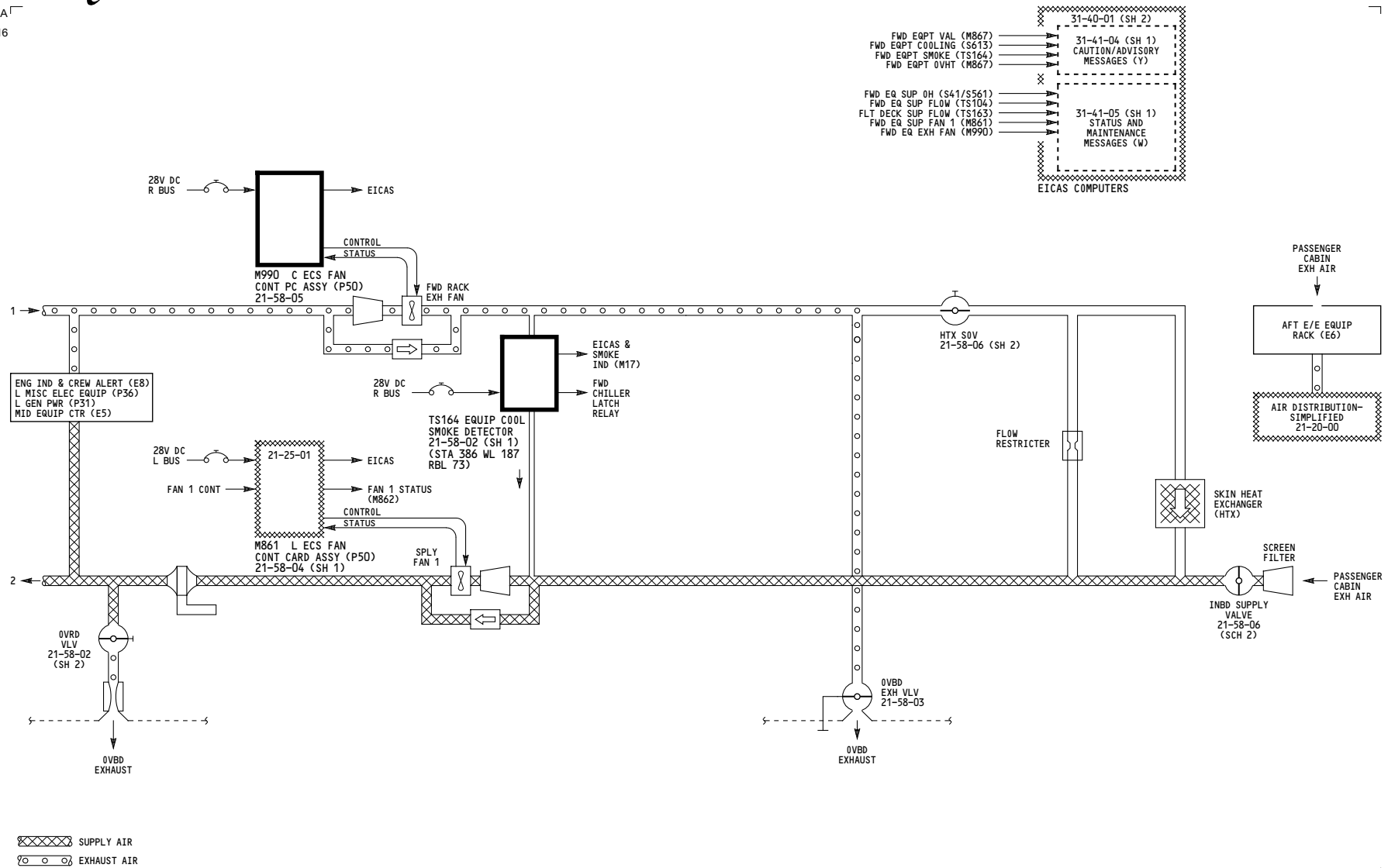
EQUIPMENT COOLING-SIMPLIFIED

D280T232

21-58-00

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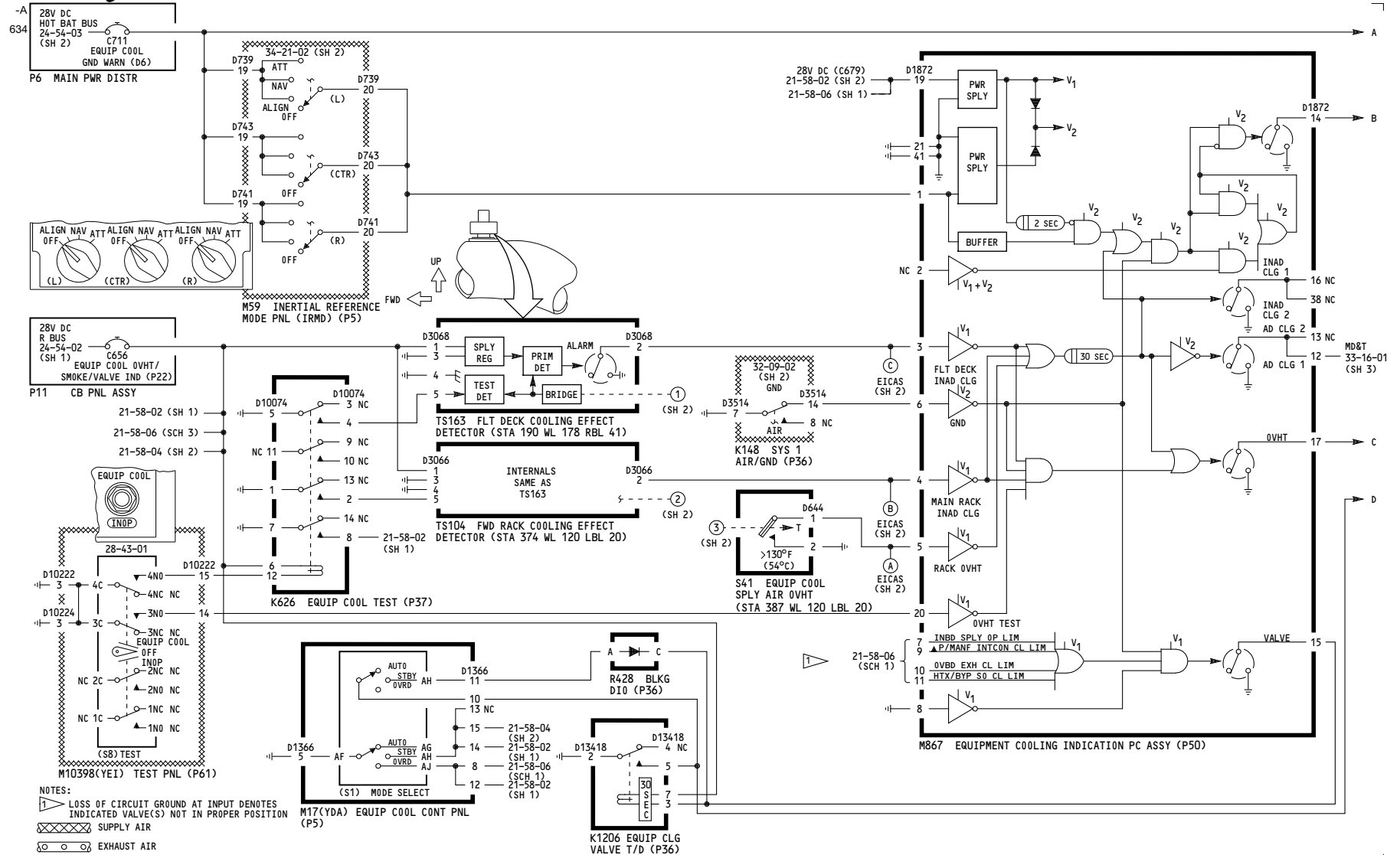
-A
616



ALL	EQUIPMENT COOLING- SIMPLIFIED
	D280T232

21-58-00

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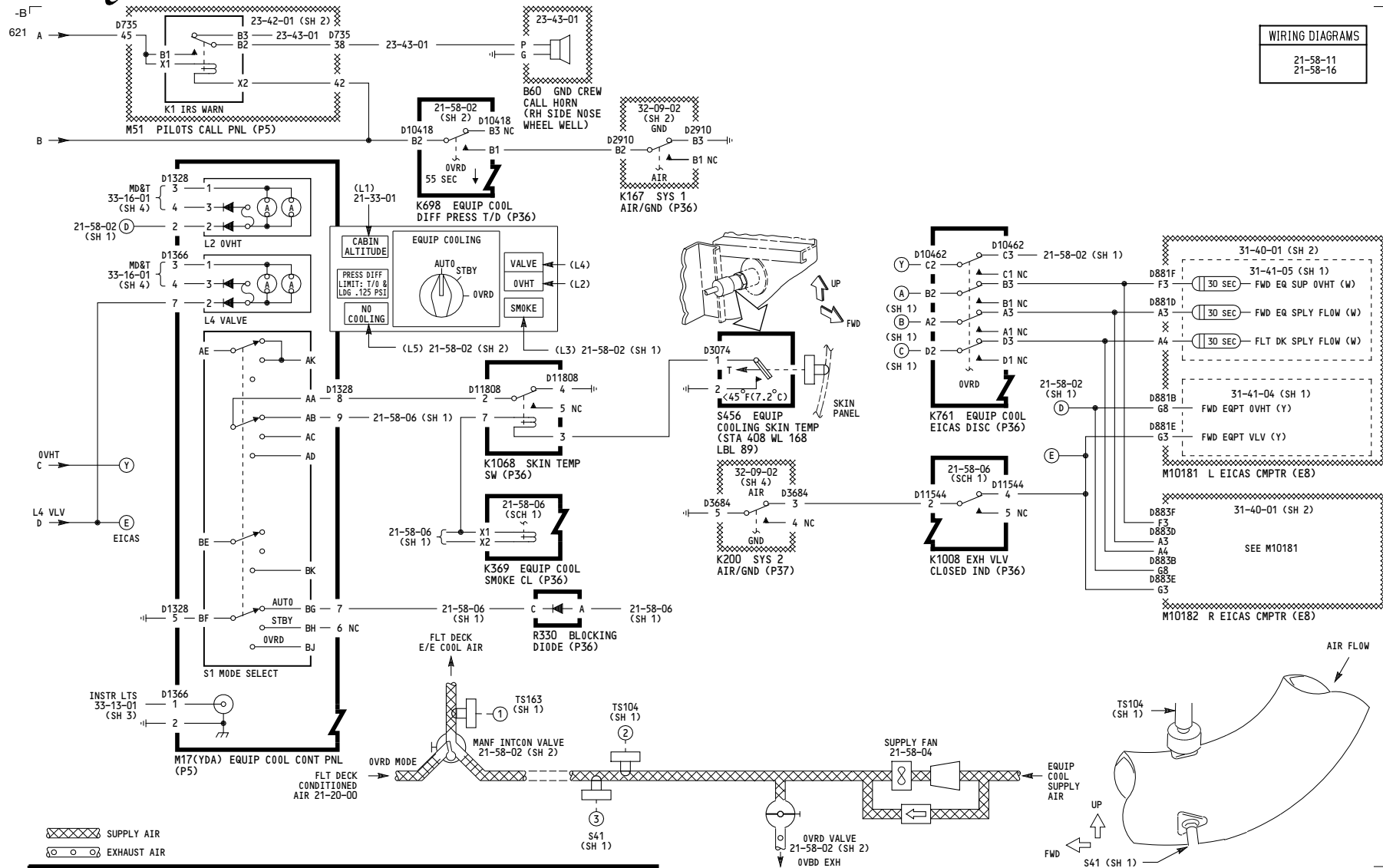
050-099

EQUIPMENT COOLING-CONTROL AND INDICATION

D280T232

21-58-01

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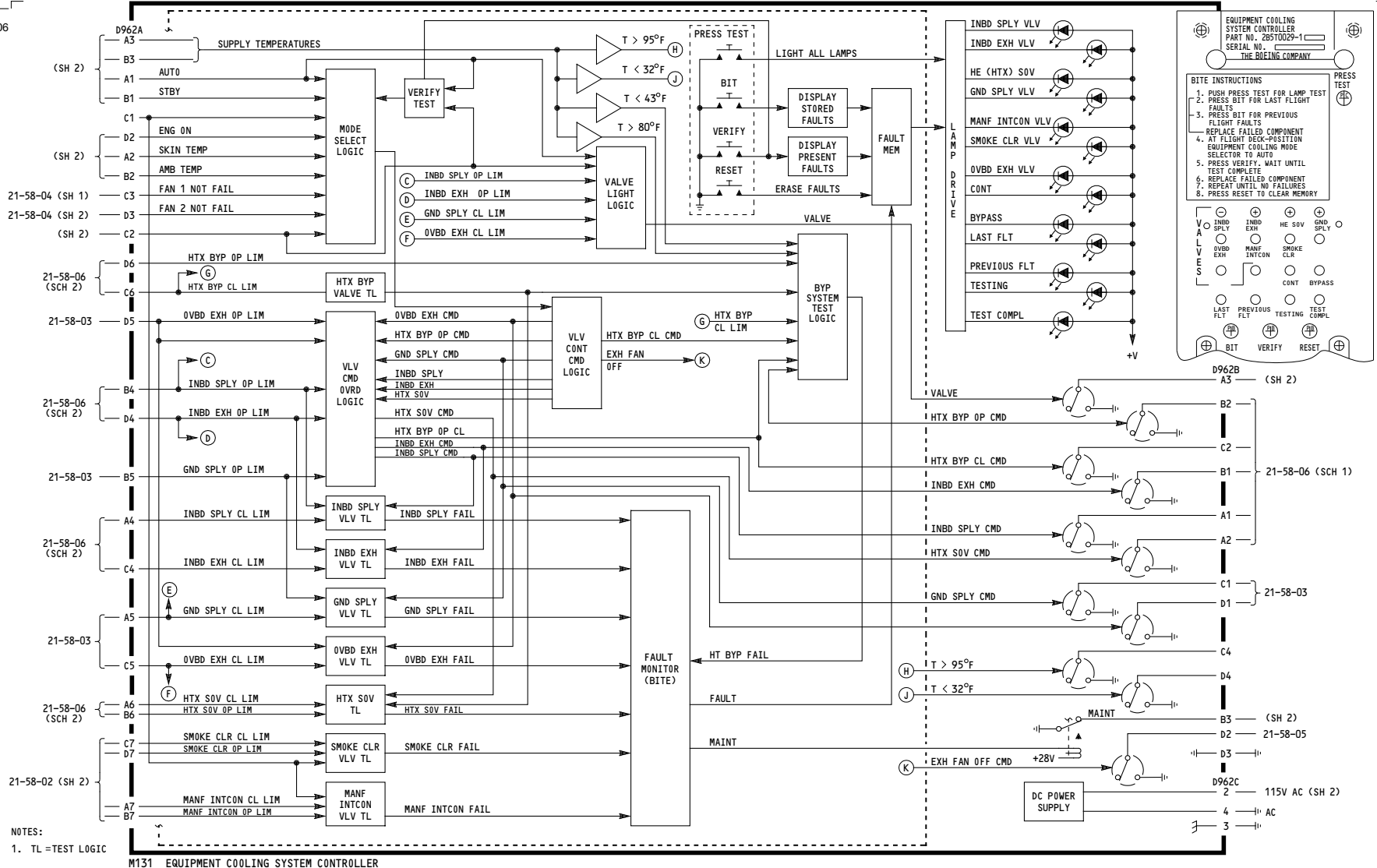
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EQUIPMENT COOLING-CONTROL AND INDICATION

D280T232

21-58-01

606



050-099

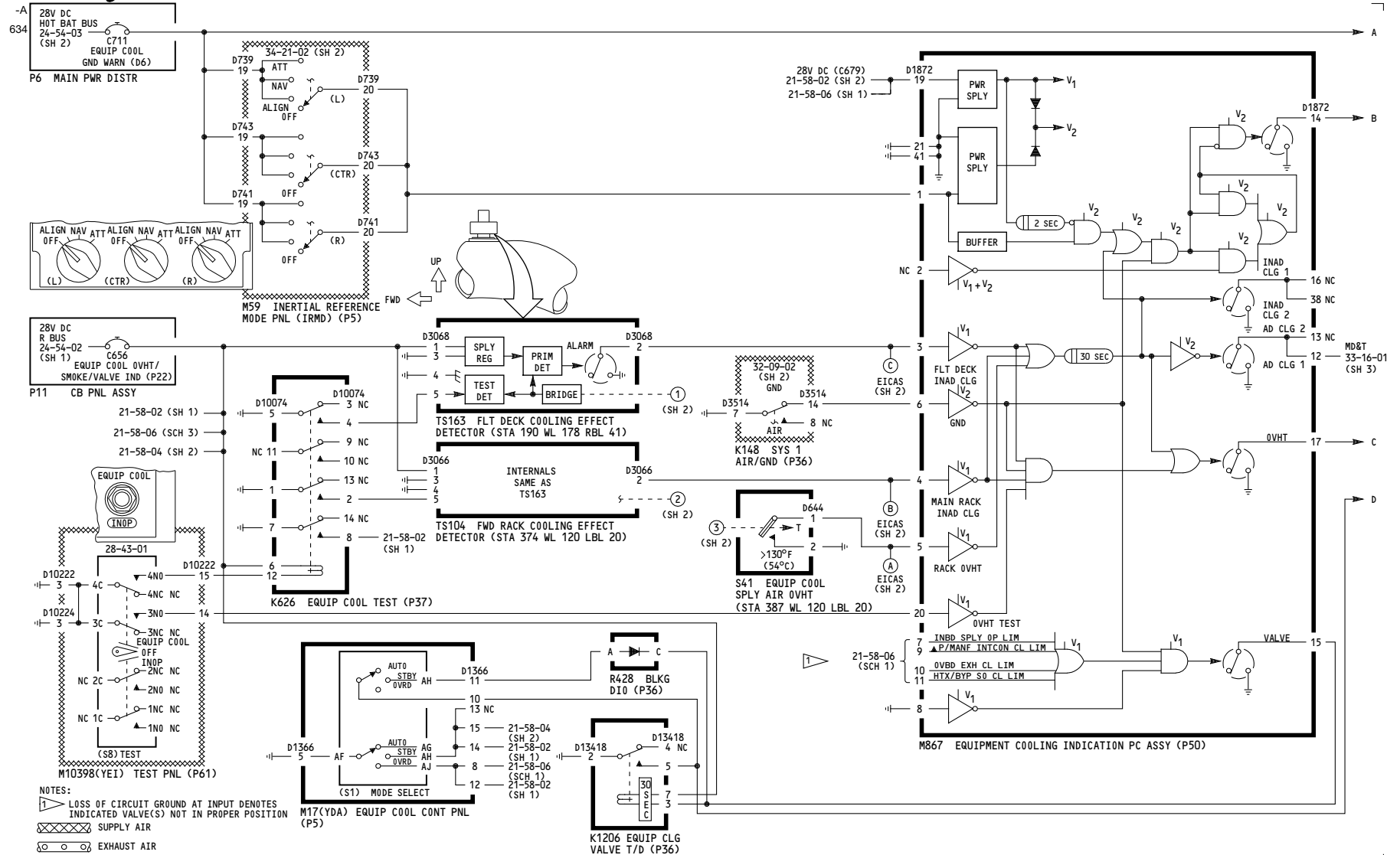
EQUIPMENT COOLING-CONTROL AND INDICATION

D280T232

21-58-01

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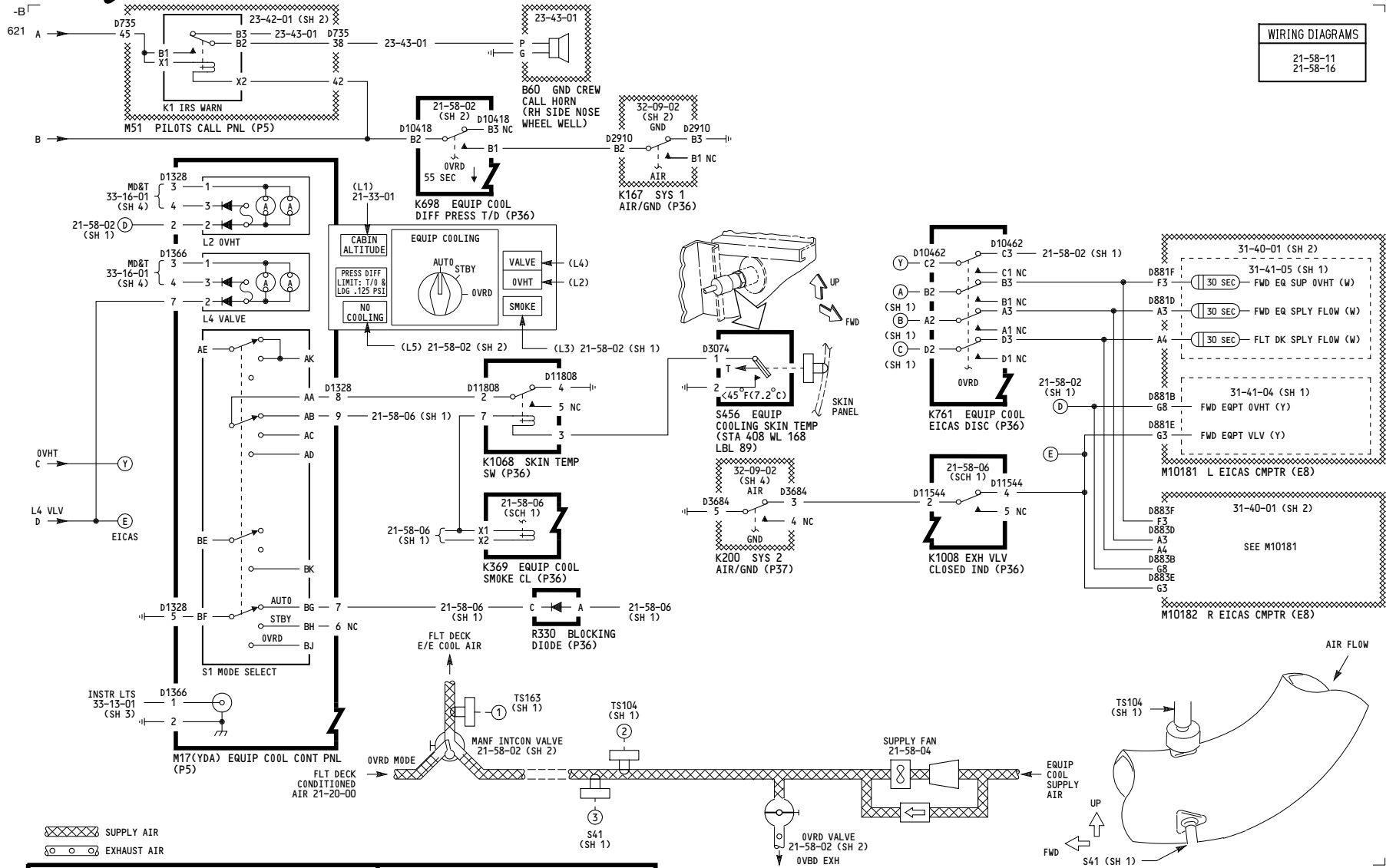
150-199, 275-299

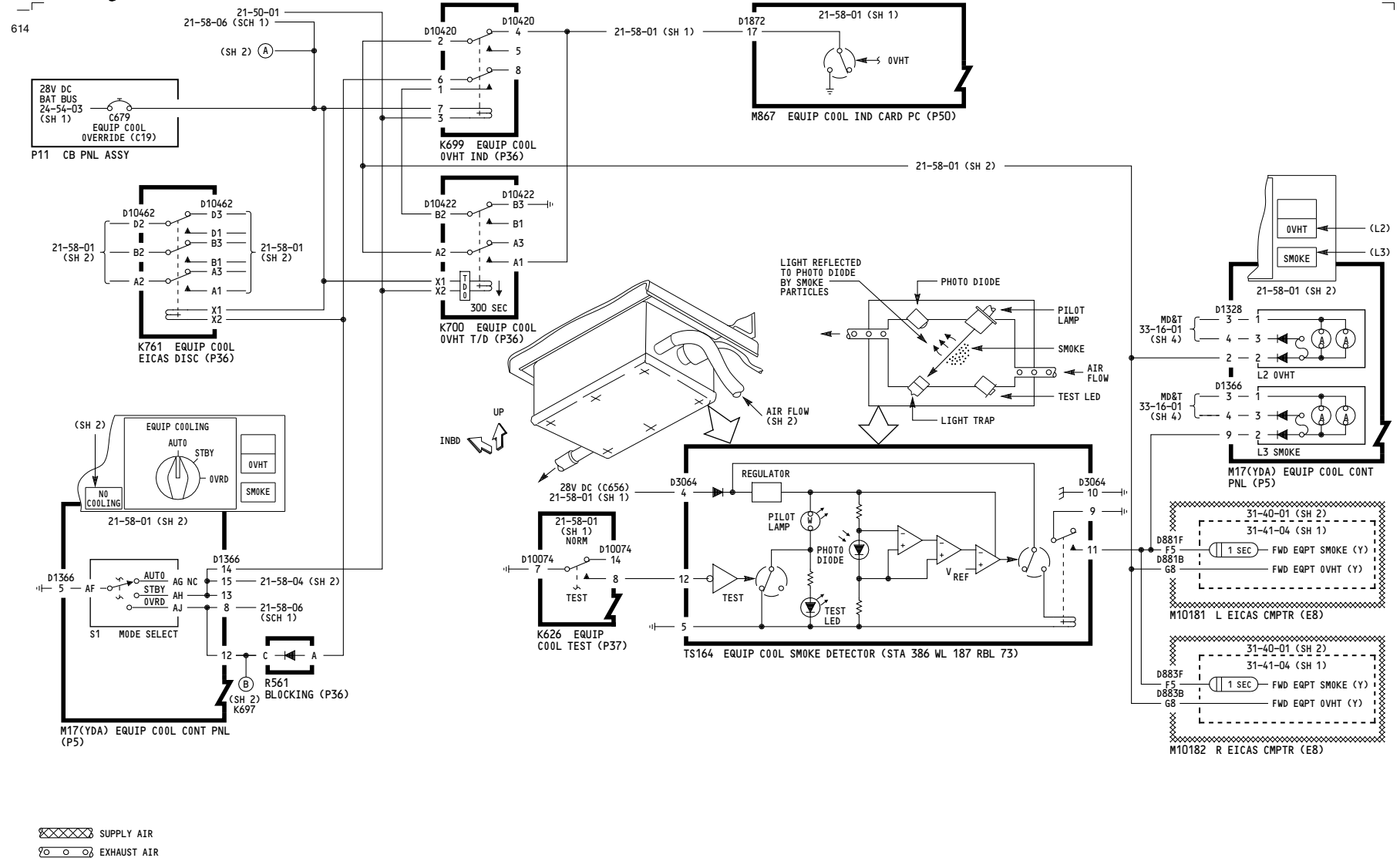
EQUIPMENT COOLING-CONTROL AND INDICATION

D280T232

21-58-01

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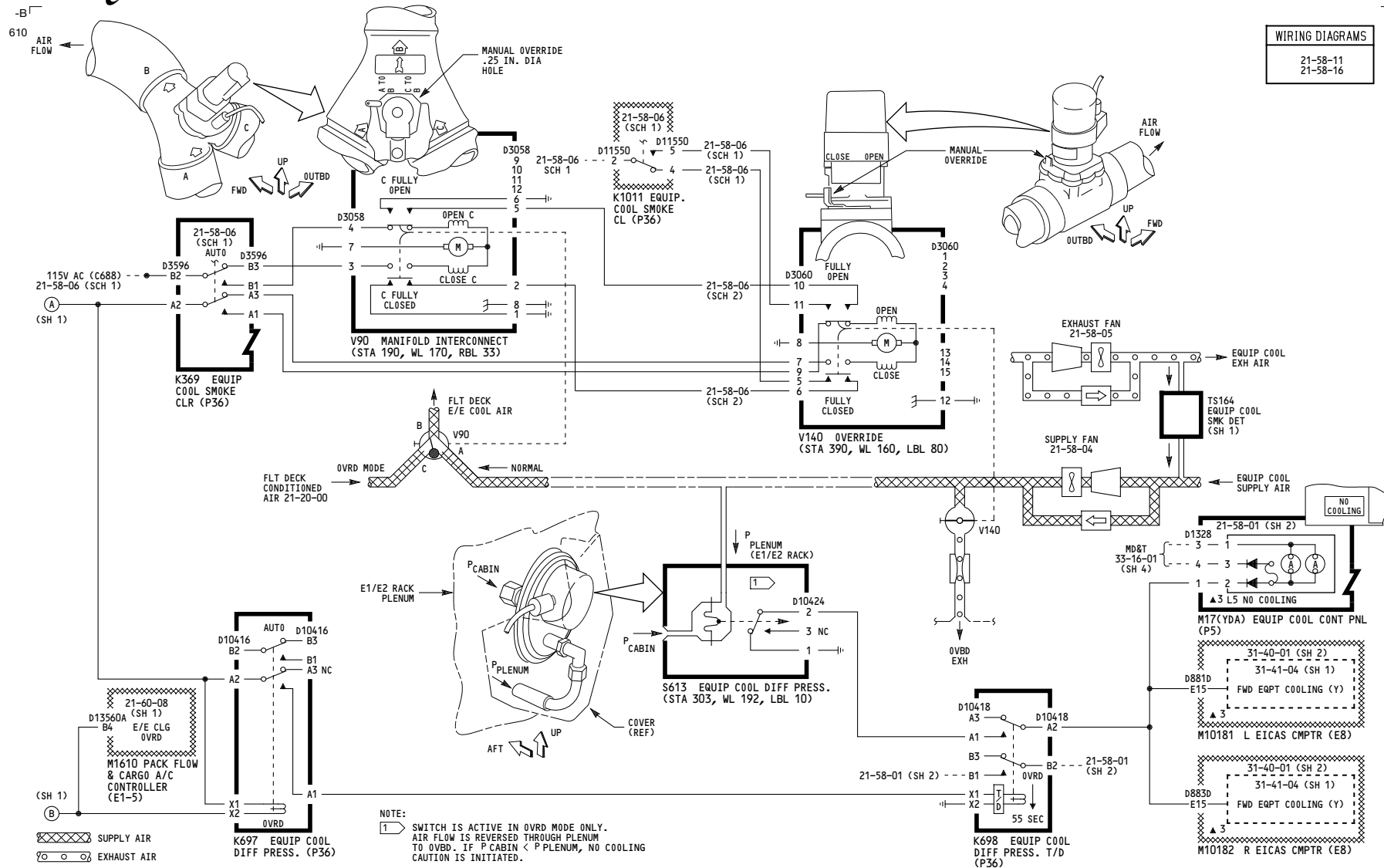
050-099, 150-154, 275-278

EQUIPMENT COOLING-OVERRIDE

D280T232

21-58-02

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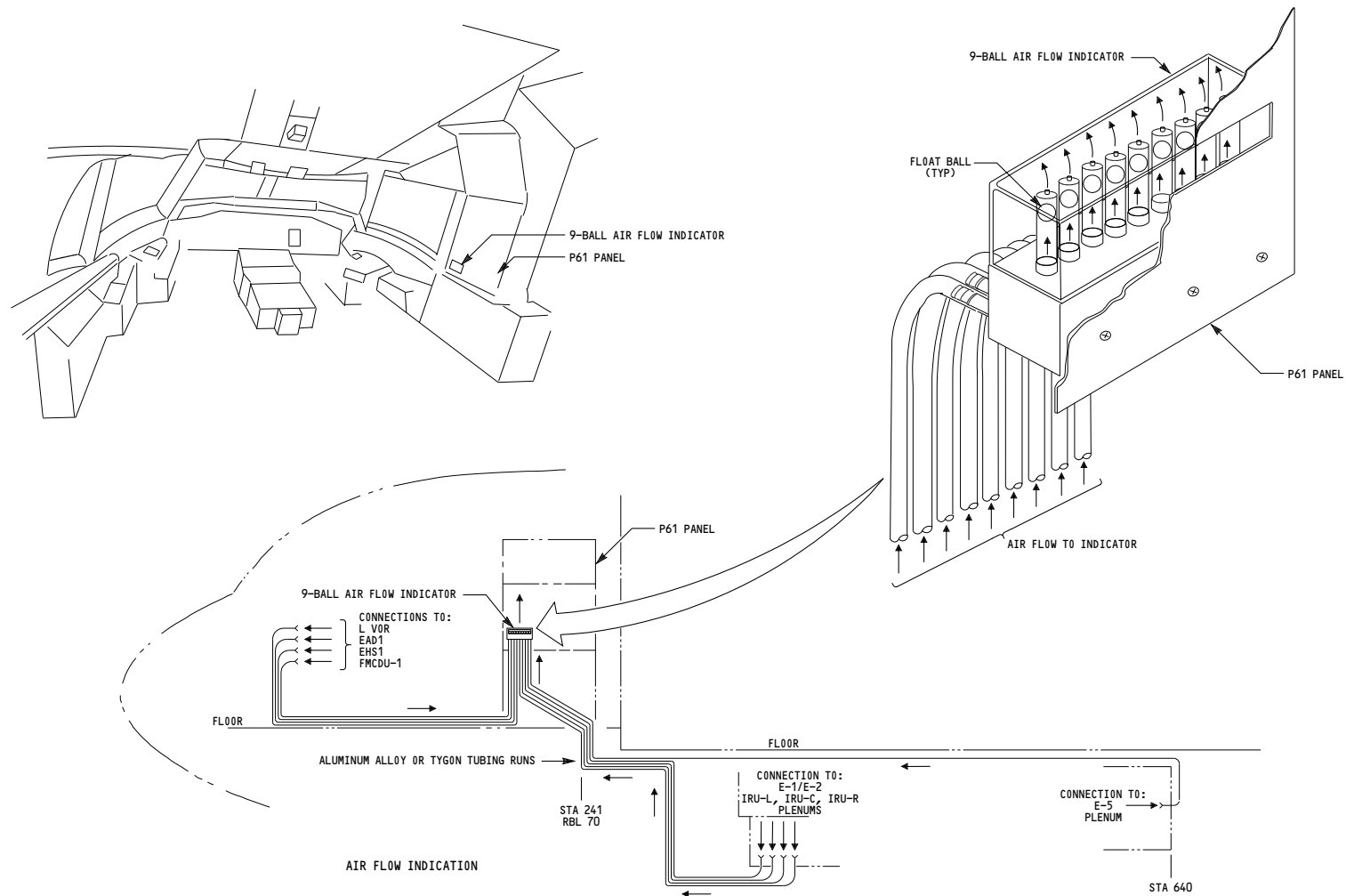


050-099, 150-154, 275-278

EQUIPMENT COOLING-OVERRIDE

D280T232

21-58-02



050-099, 150-154, 275-278

EQUIPMENT COOLING-OVERRIDE

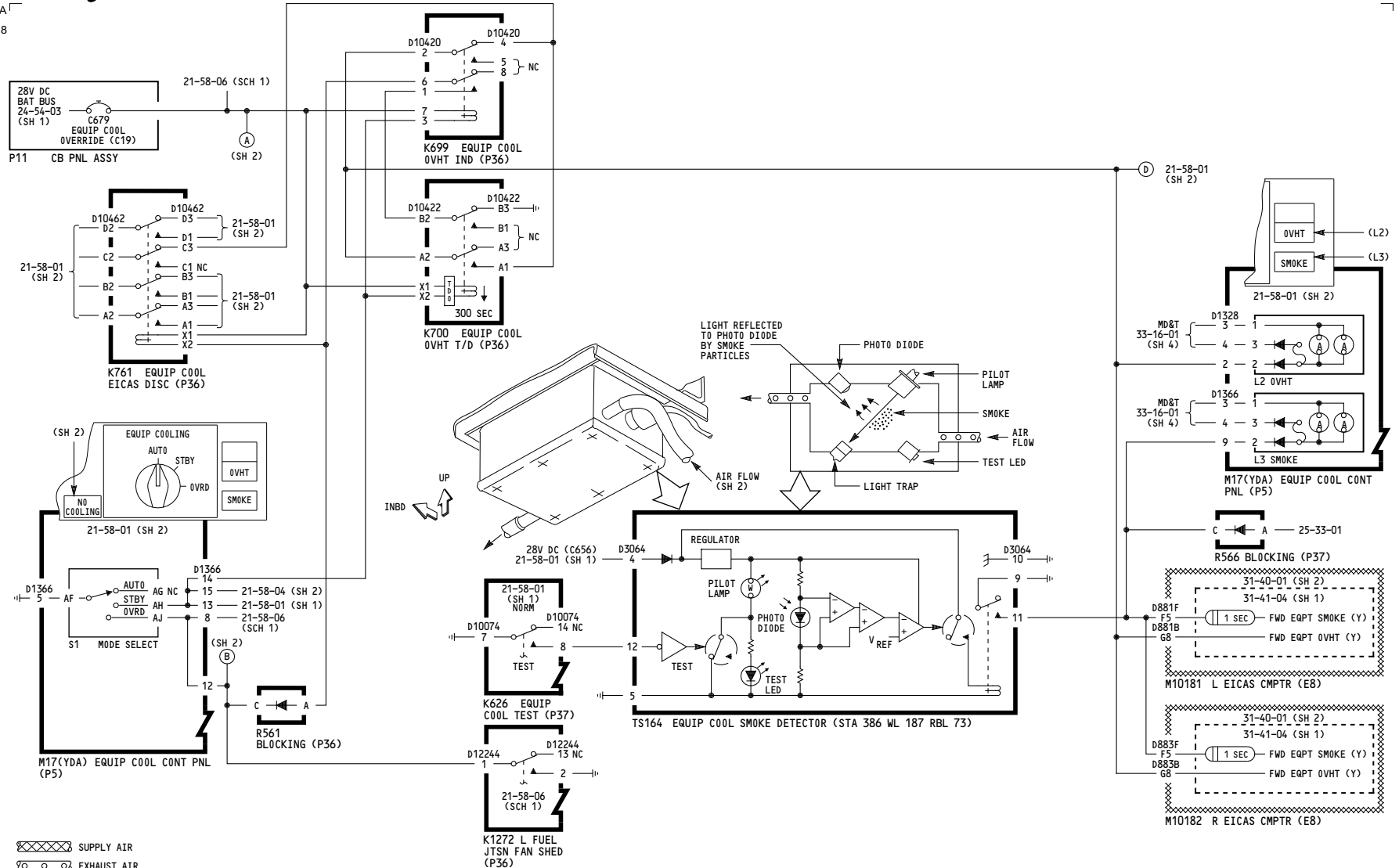
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155-199

EQUIPMENT COOLING-OVERRIDE

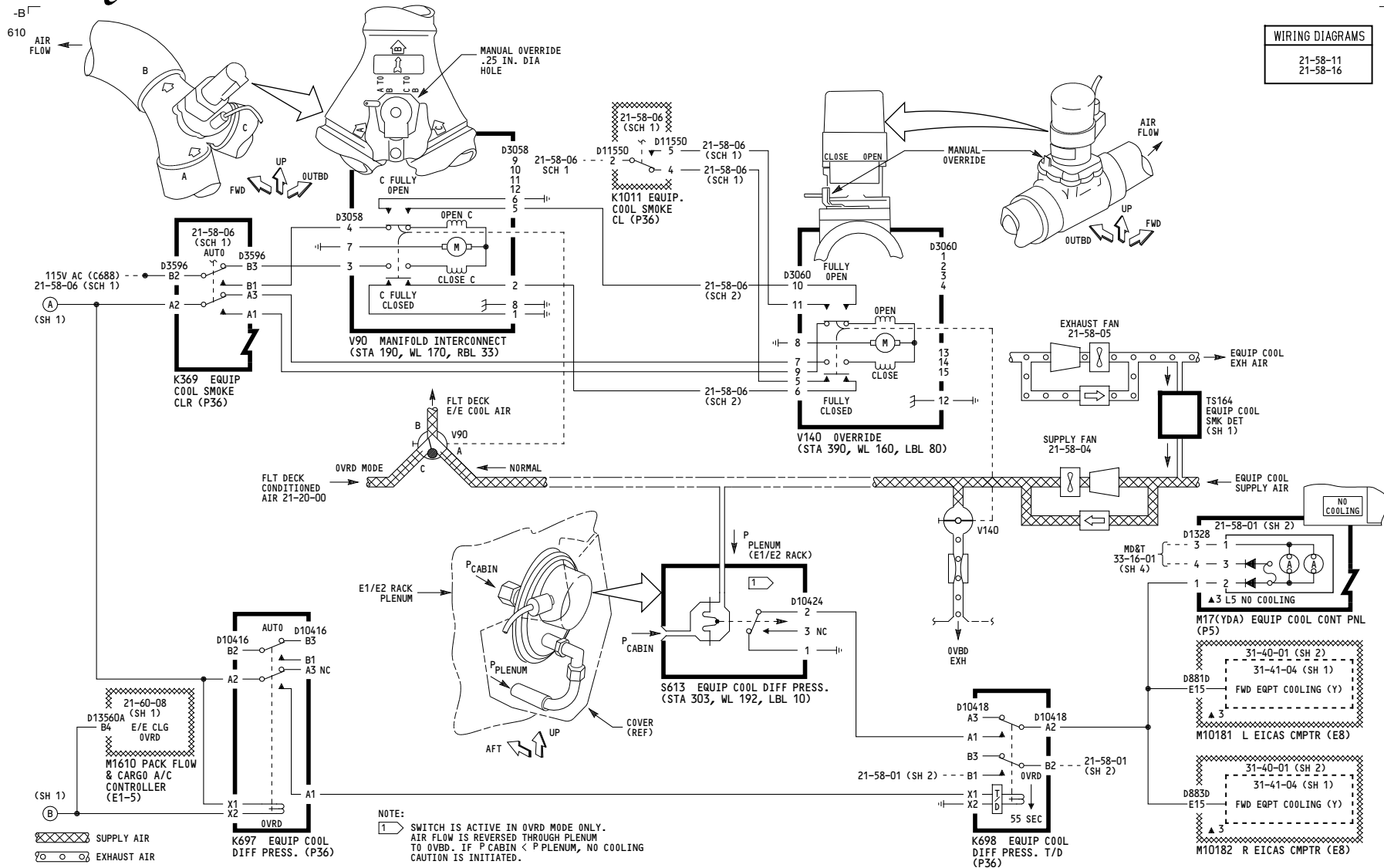
D280T232

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WIRING DIAGRAMS

21-58-11
21-58-16

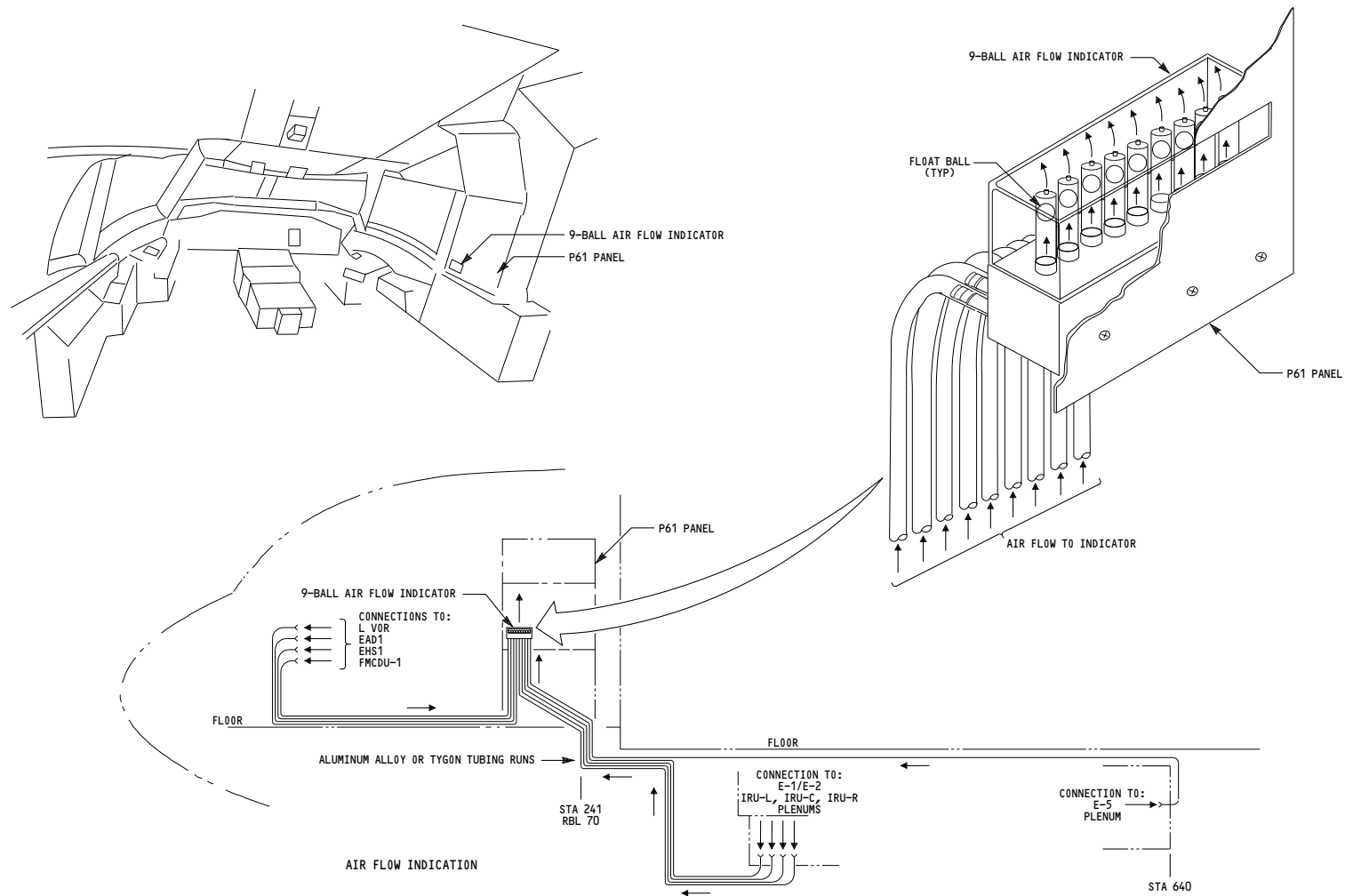


155-199

EQUIPMENT COOLING-OVERRIDE

D280T232

21-58-02



155-199

EQUIPMENT COOLING-OVERRIDE

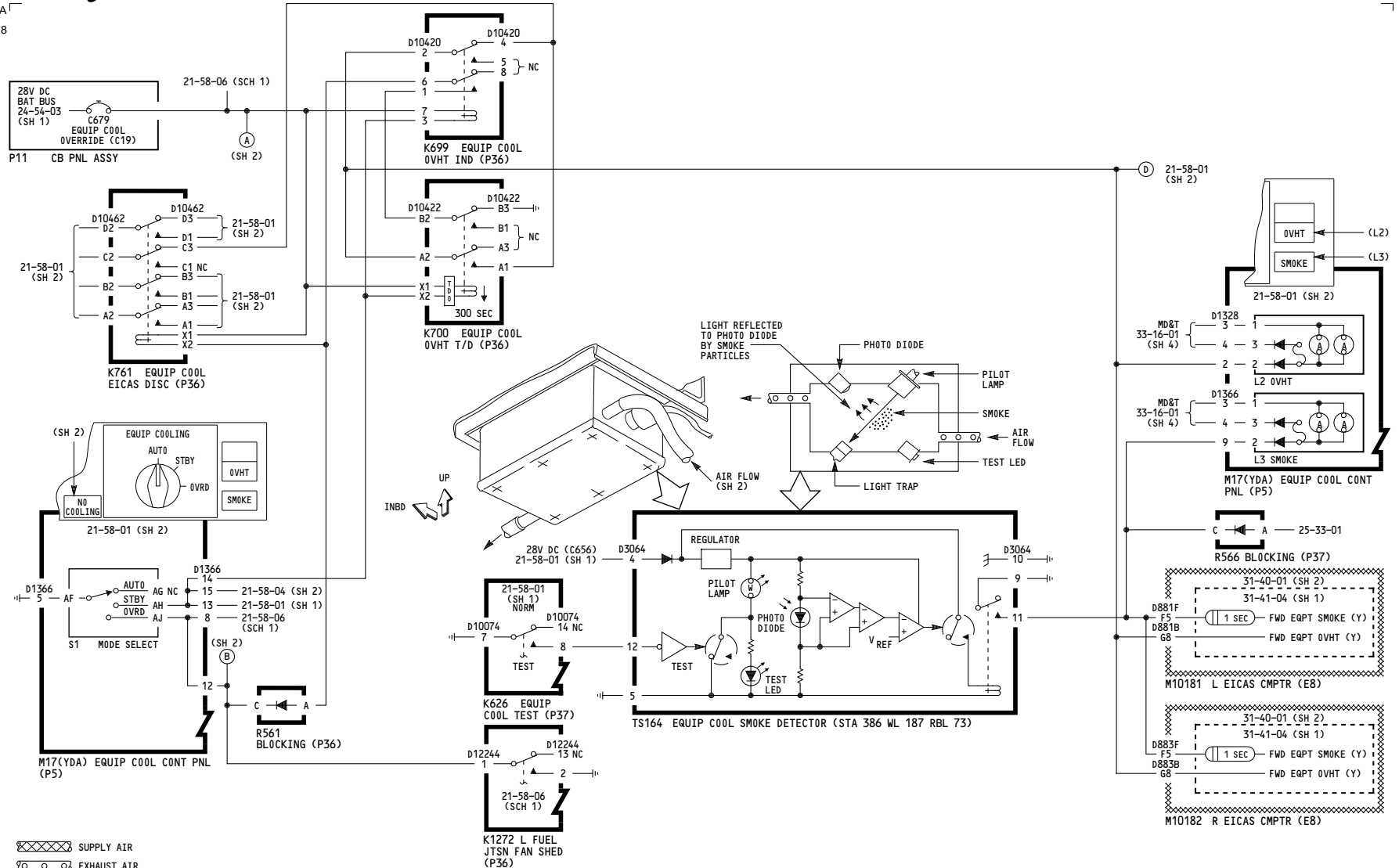
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618



280-299

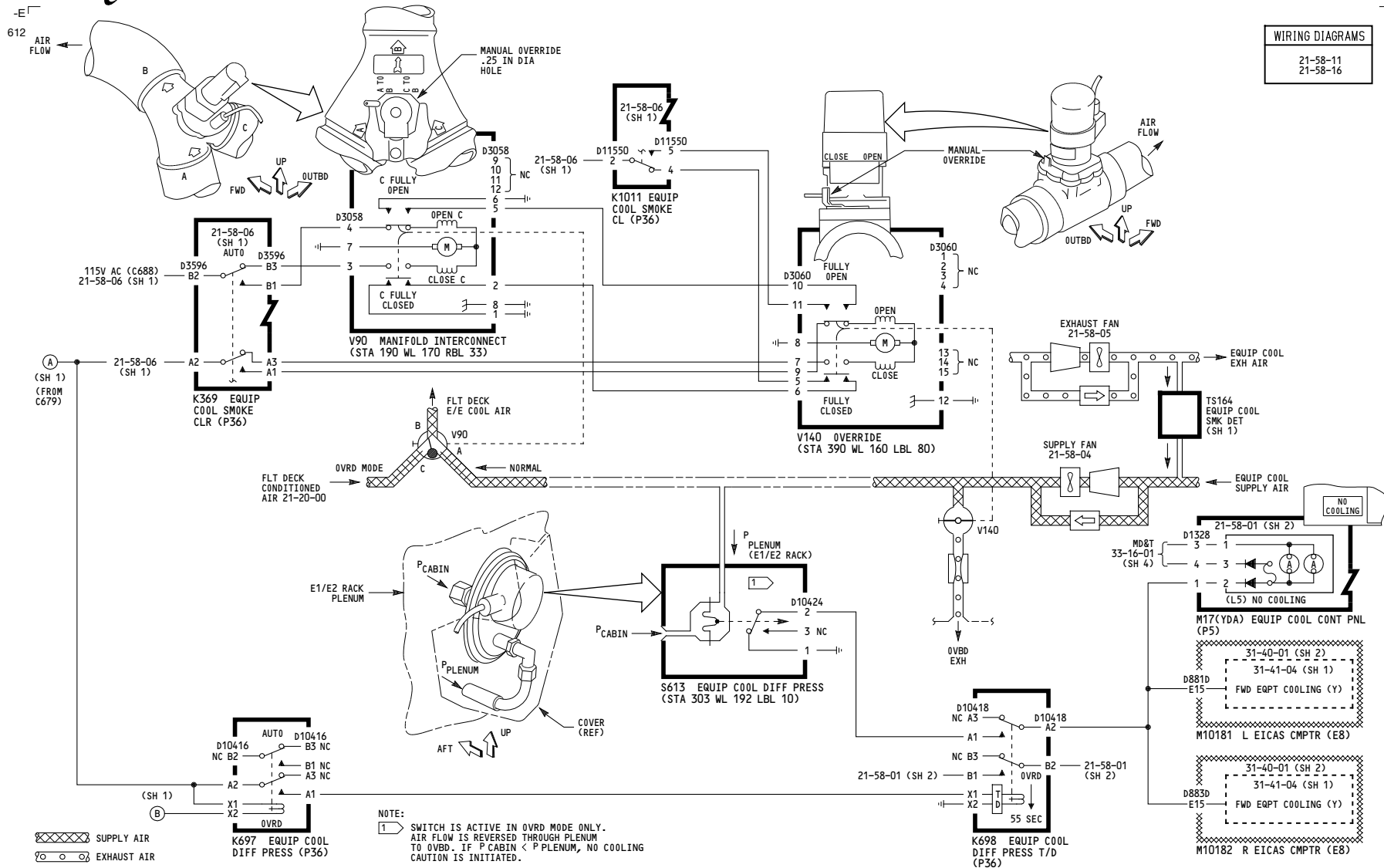
EQUIPMENT COOLING-OVERRIDE

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WIRING DIAGRAMS
21-58-11
21-58-16



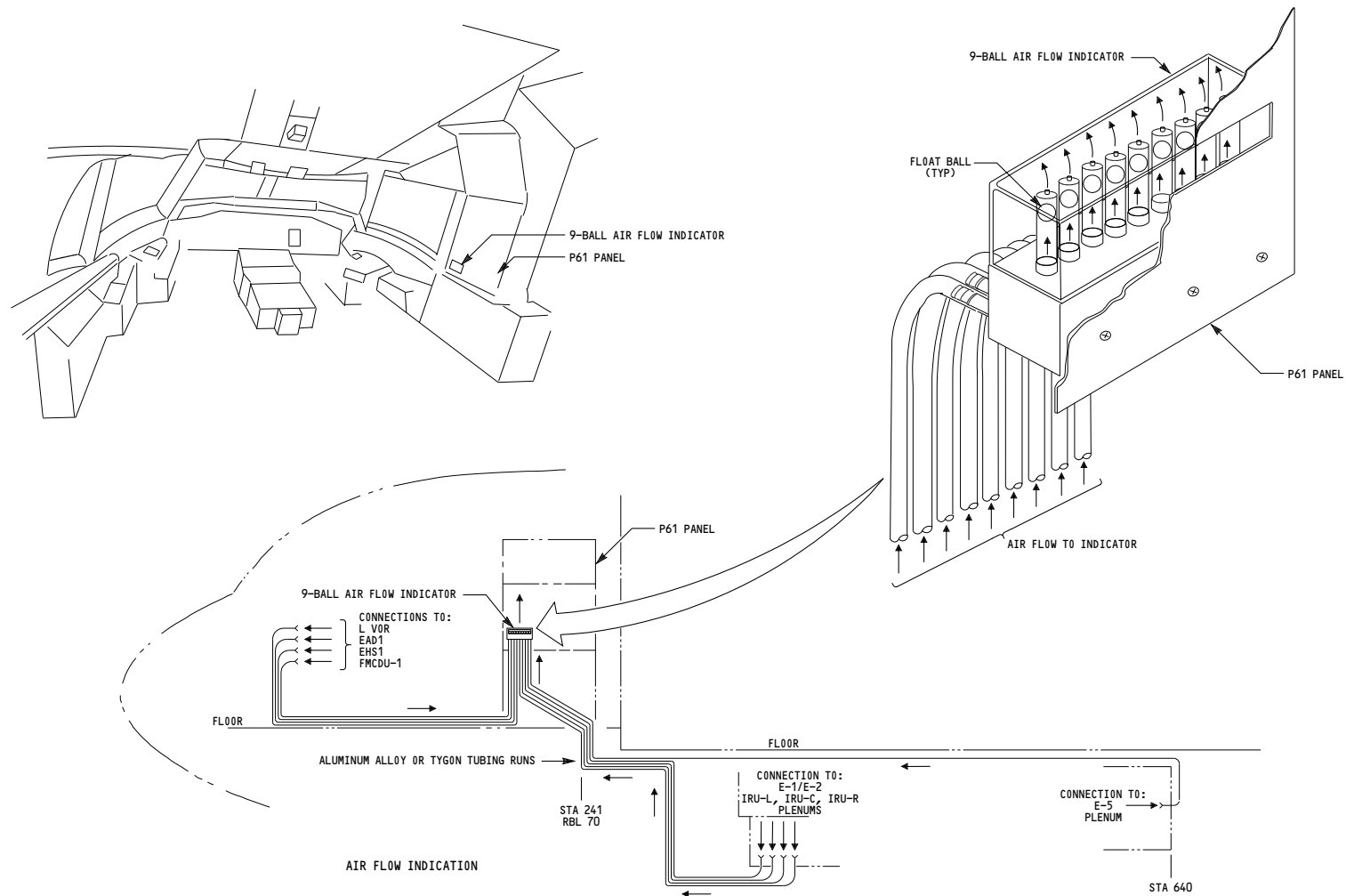
280-299

EQUIPMENT COOLING-OVERRIDE

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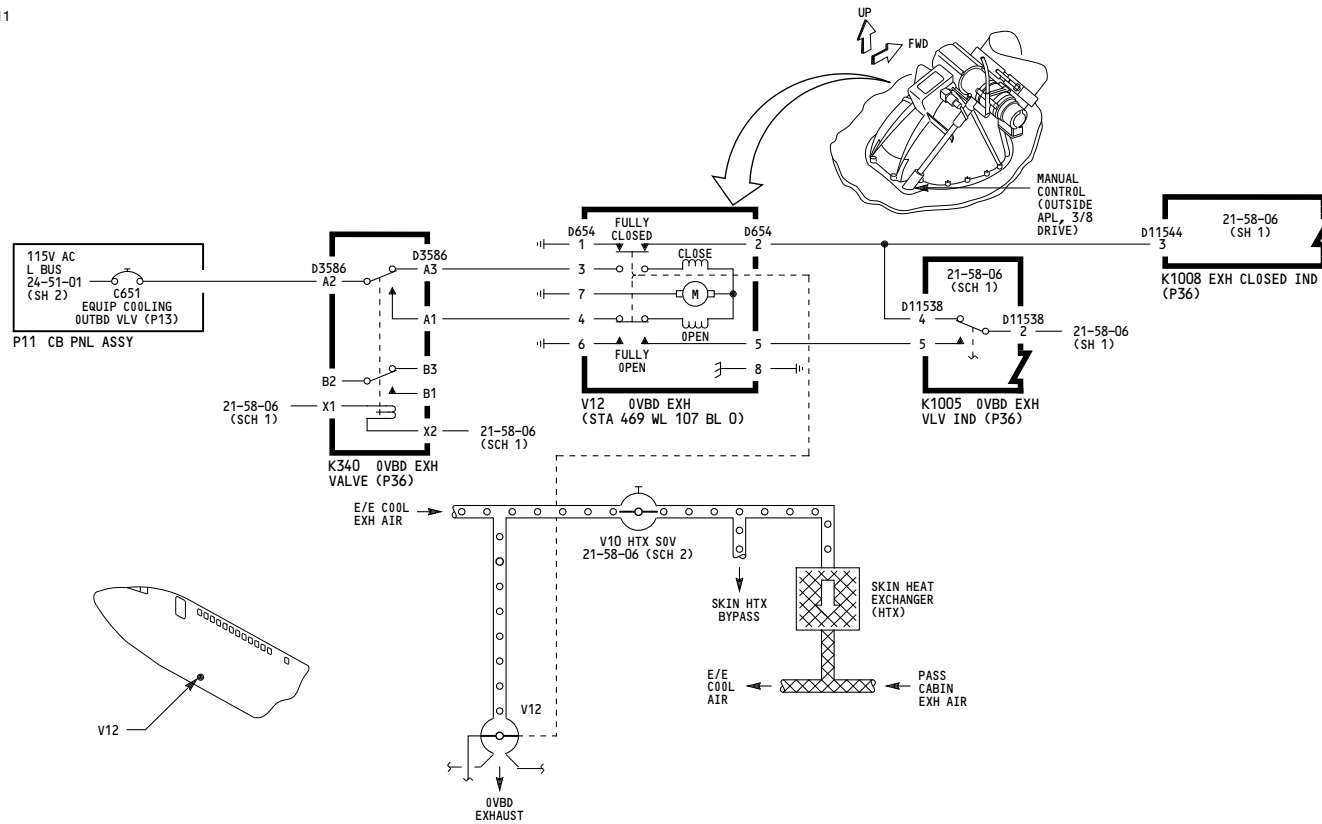
EQUIPMENT COOLING-OVERRIDE

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XXXXXX SUPPLY AIR

XXXXXX EXHAUST AIR

ALL

**EQUIPMENT COOLING-
GROUND VALVES**

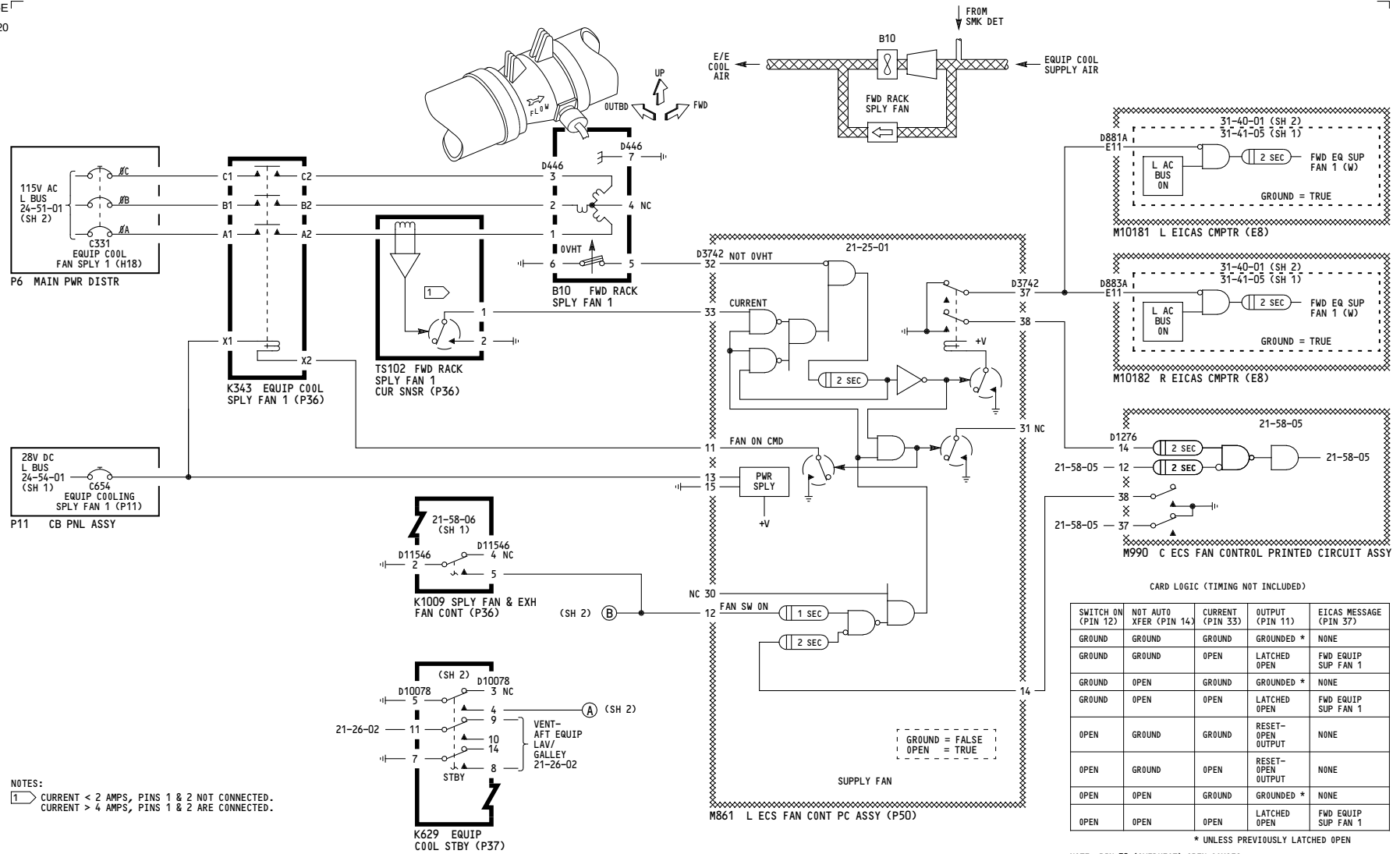
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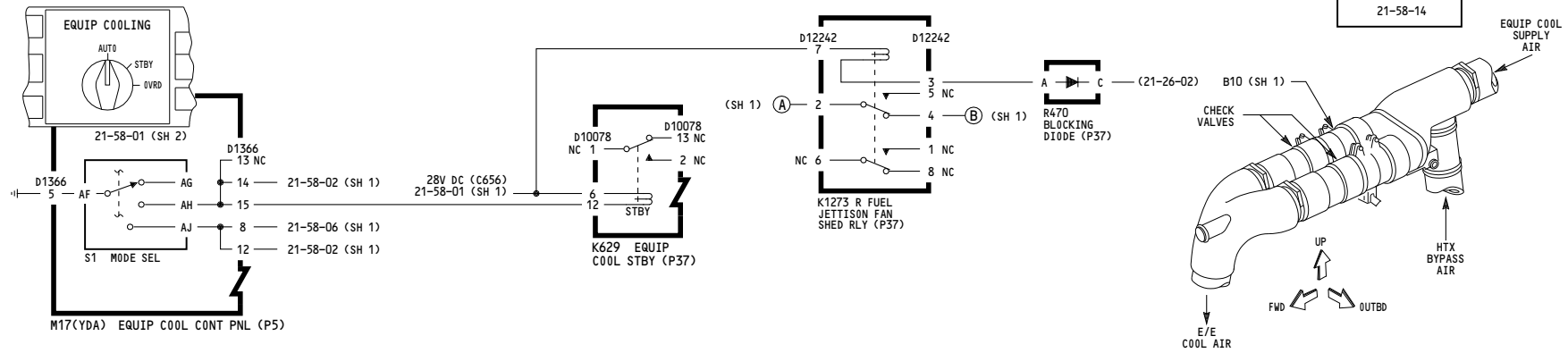
Jan 21/2005

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21-58-04

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617



050-099, 155-199, 276-299

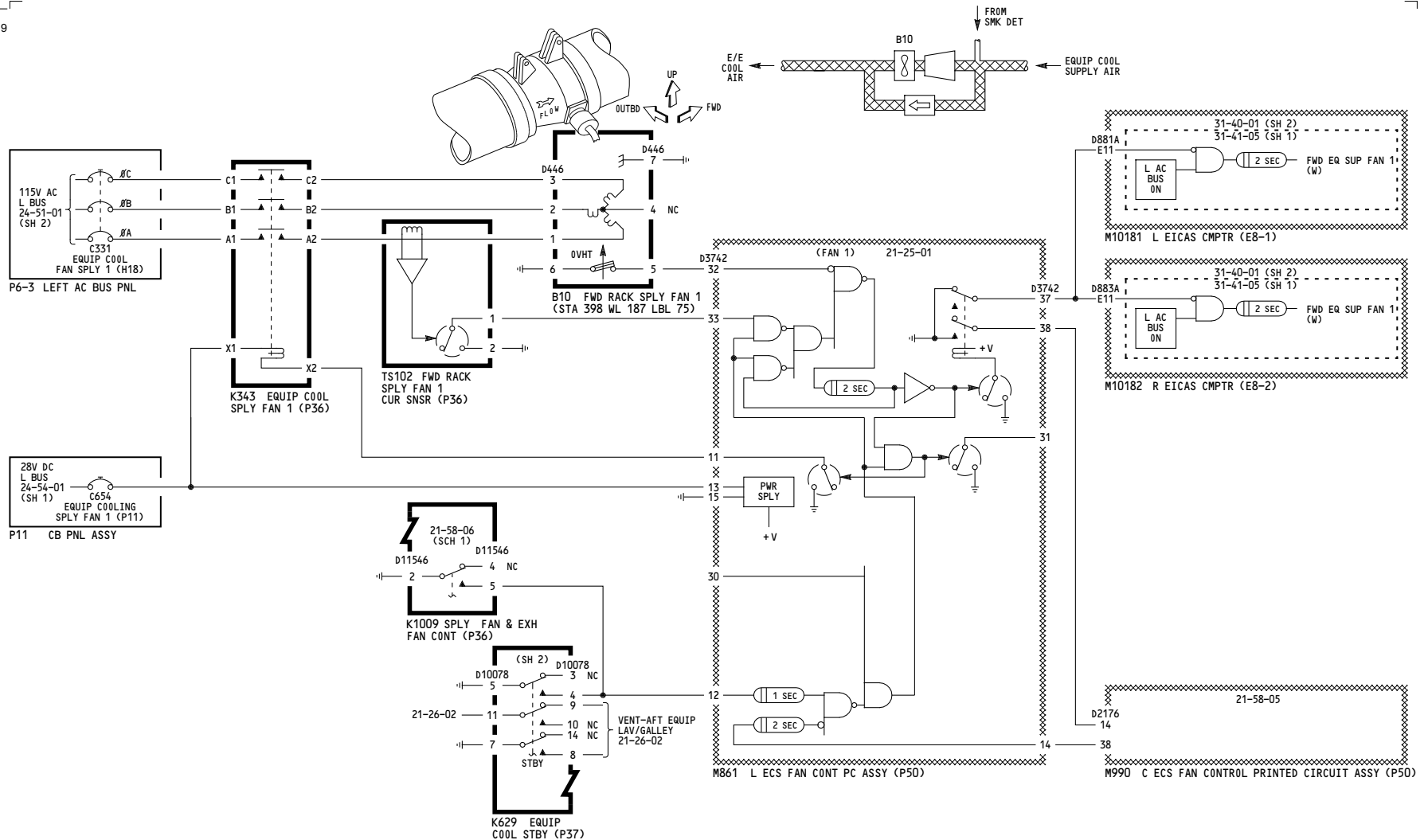
**EQUIPMENT COOLING-
SUPPLY FANS**

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XXXXX SUPPLY AIR

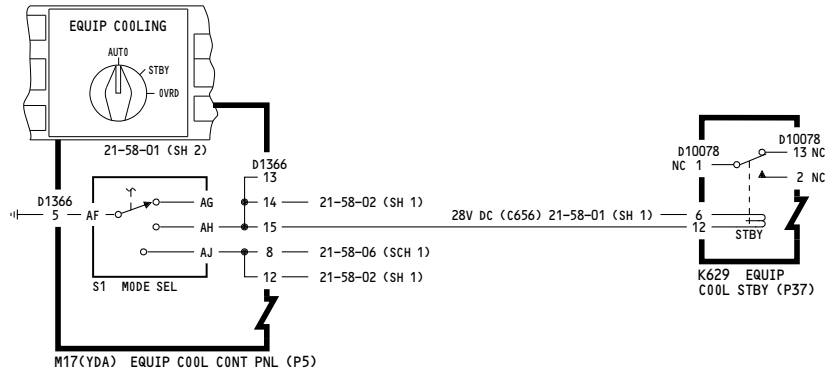
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EQUIPMENT COOLING-SUPPLY FANS

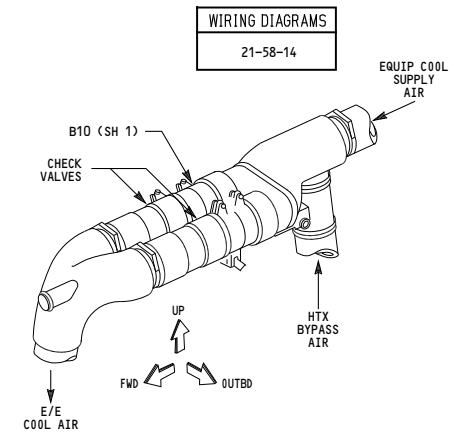
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767-200/300 SYSTEM SCHEMATIC MANUAL



150-154, 275

EQUIPMENT COOLING-SUPPLY FANS

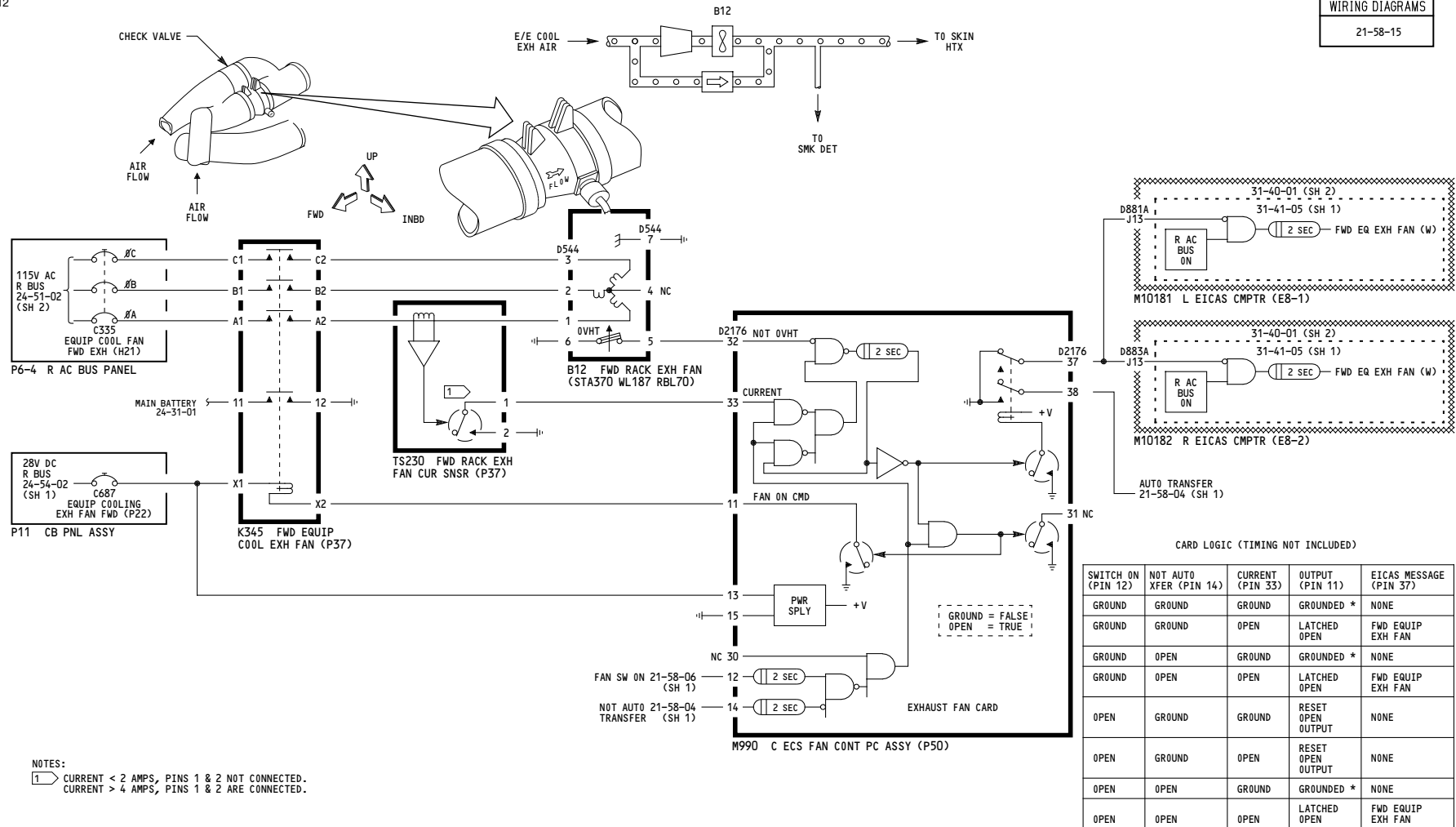
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WIRING DIAGRAMS
21-58-15



ALL	EQUIPMENT COOLING-EXHAUST FAN
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21-58-05

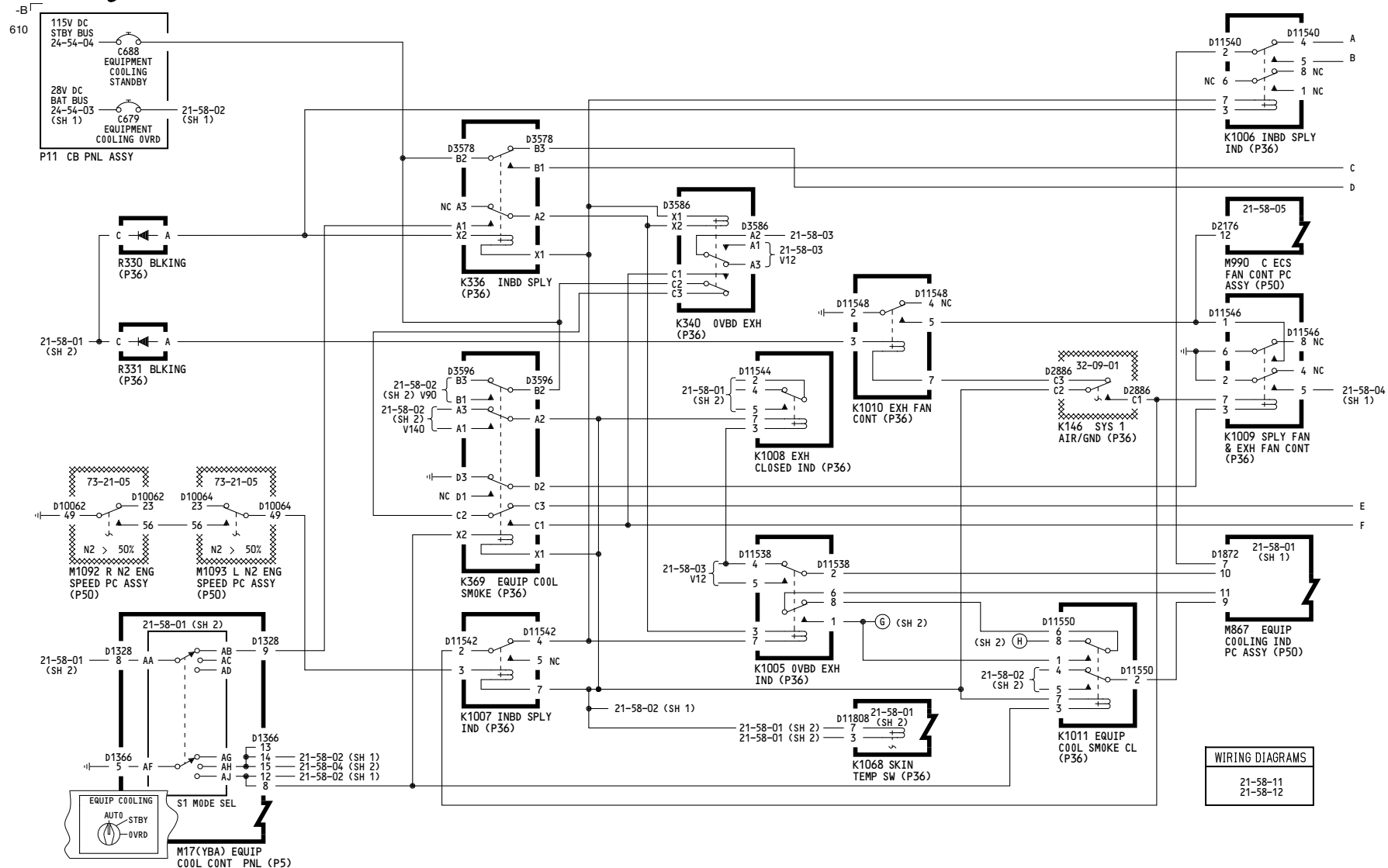
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1 LOSS OF CIRCUIT GROUND
DENOTES INDICATED VALVE (S)
NOT IN PROPPER POSITION

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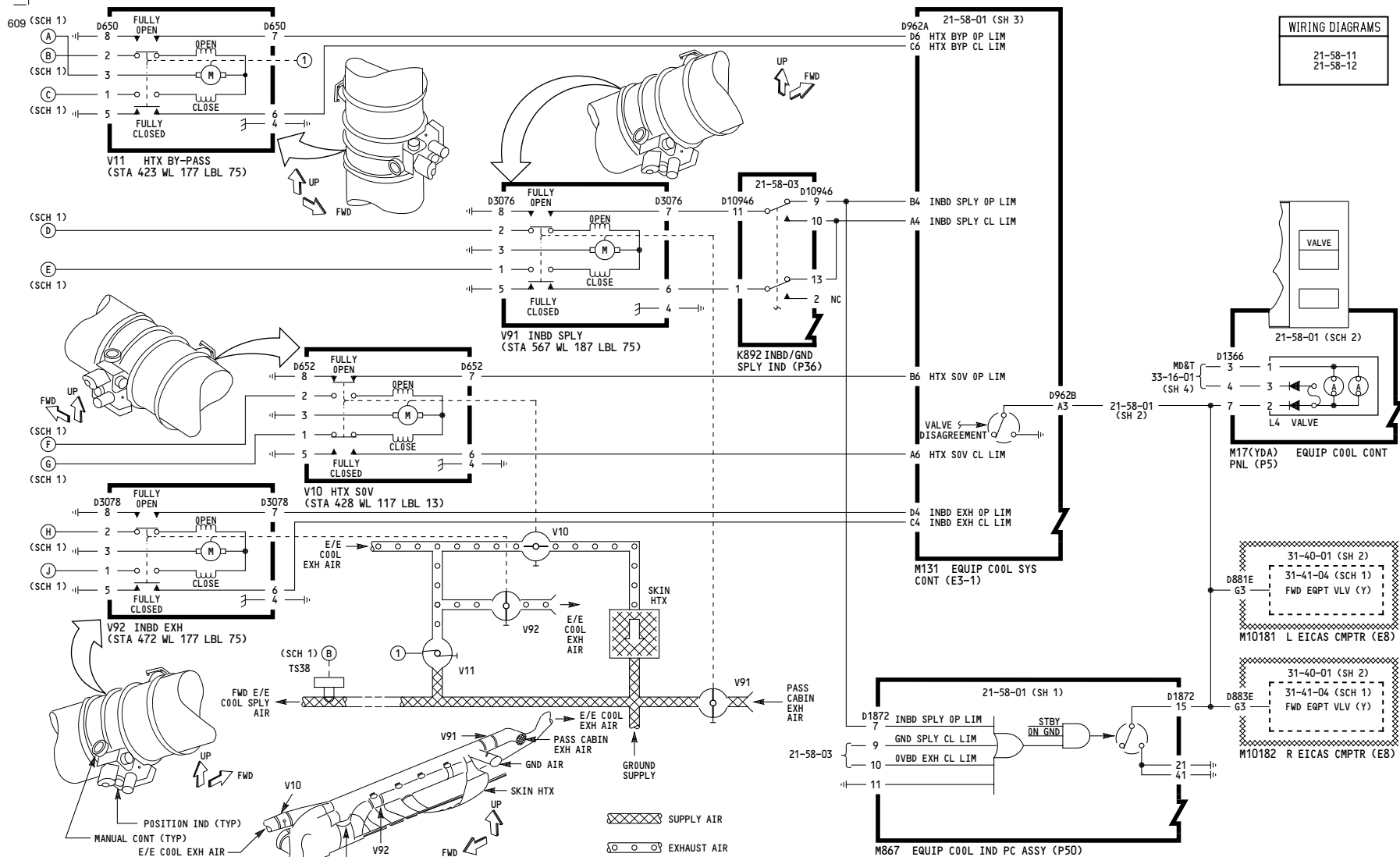
EQUIPMENT COOLING- INBOARD VALVES

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EQUIPMENT COOLING- INBOARD VALVES

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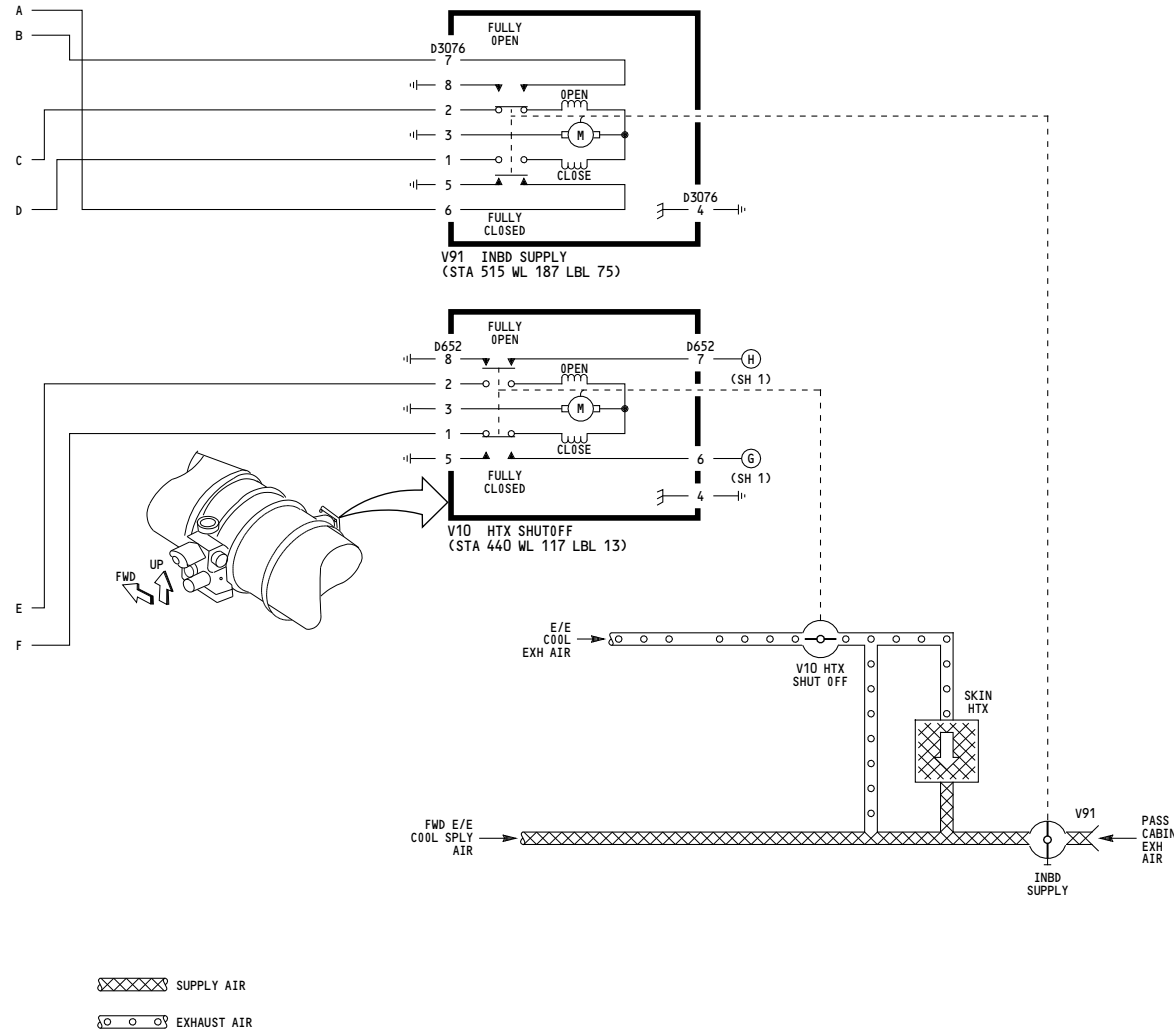
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WIRING DIAGRAMS
21-58-11 21-58-12

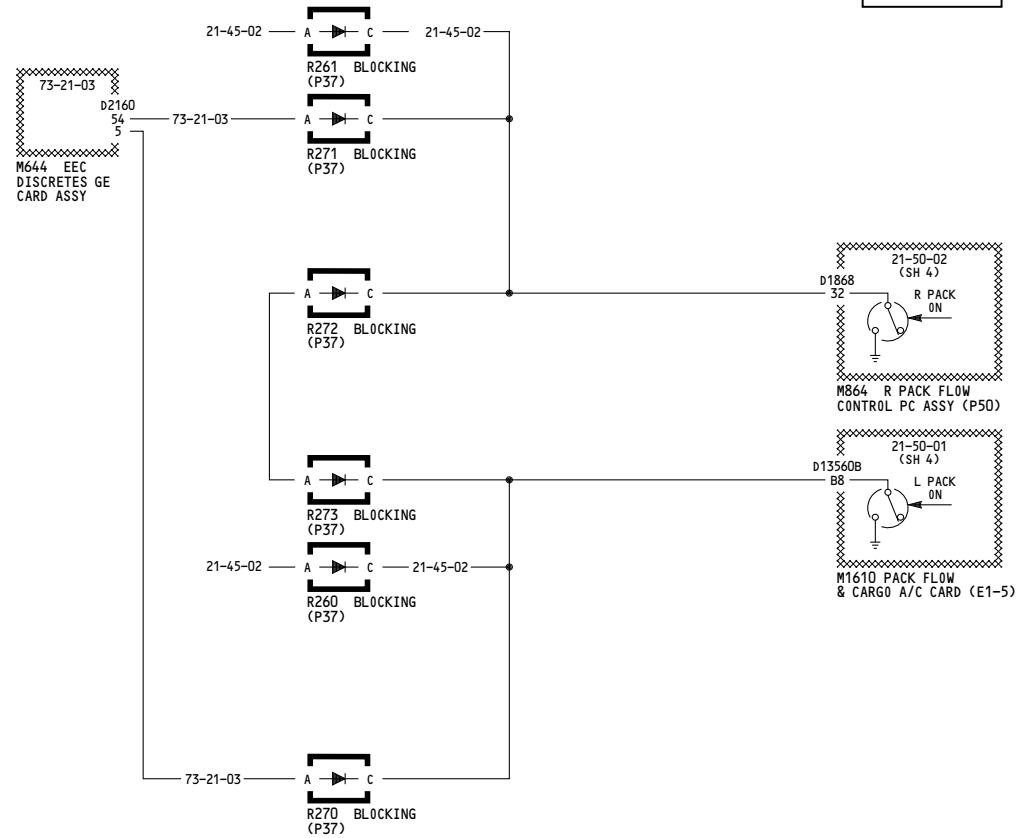


150-199, 275-299	EQUIPMENT COOLING- INBOARD VALVES
	D280T232

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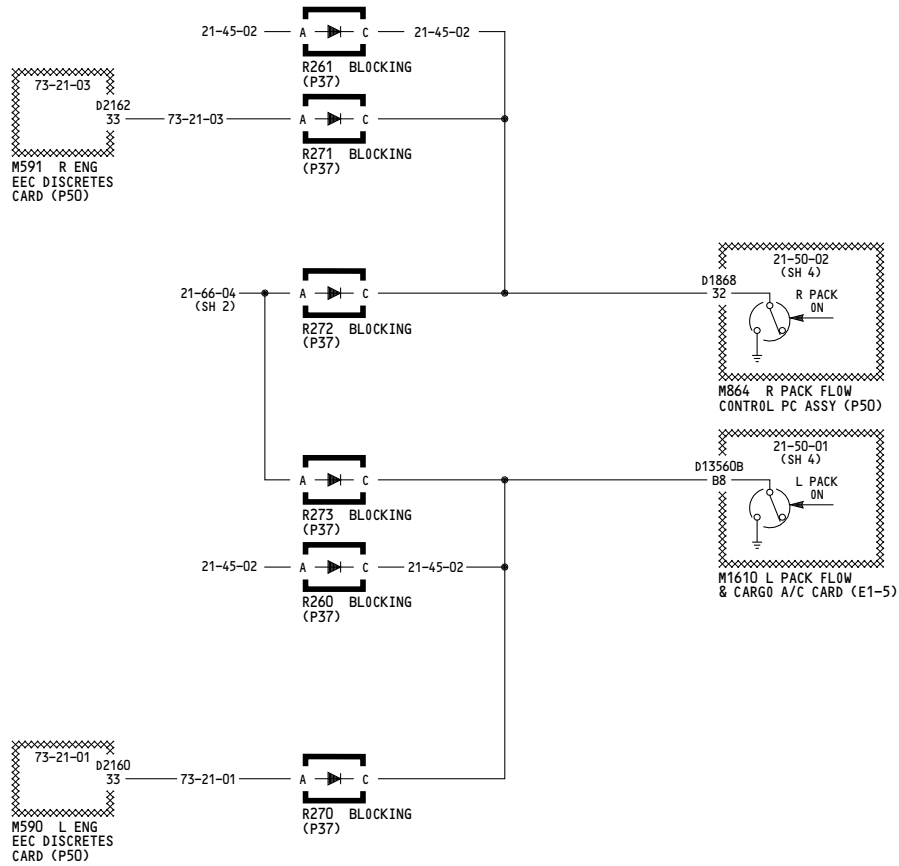
**EQUIPMENT COOLING-
INBOARD VALVES**

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150, 152-157	EQUIPMENT COOLING- INBOARD VALVES
	D280T232

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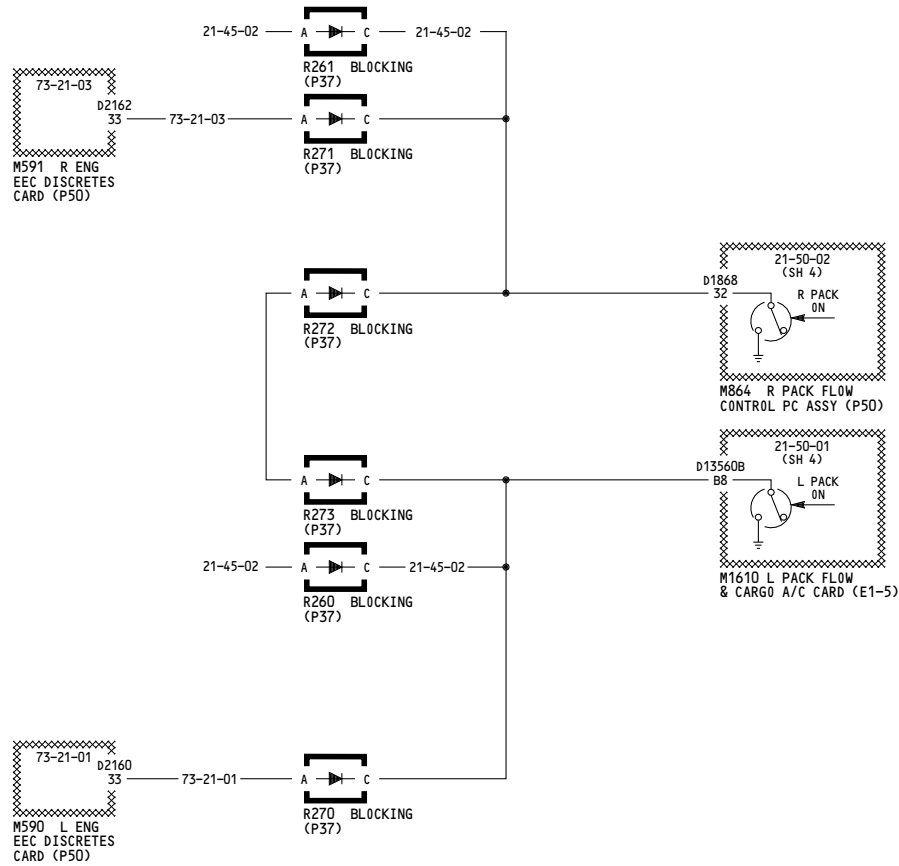
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21-58-12



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**EQUIPMENT COOLING-
INBOARD VALVES**

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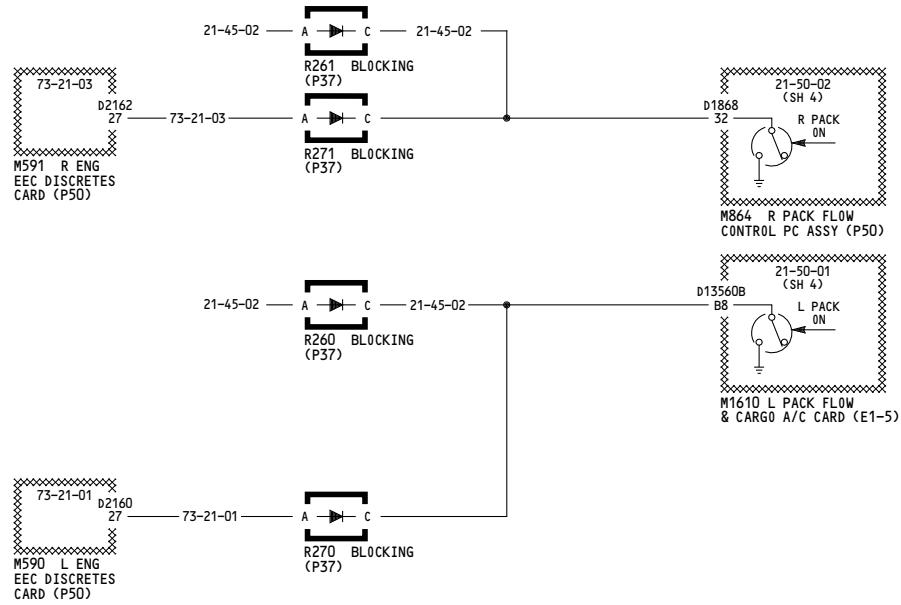
Schem 3
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WIRING DIAGRAMS
21-58-12



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EQUIPMENT COOLING-
INBOARD VALVES

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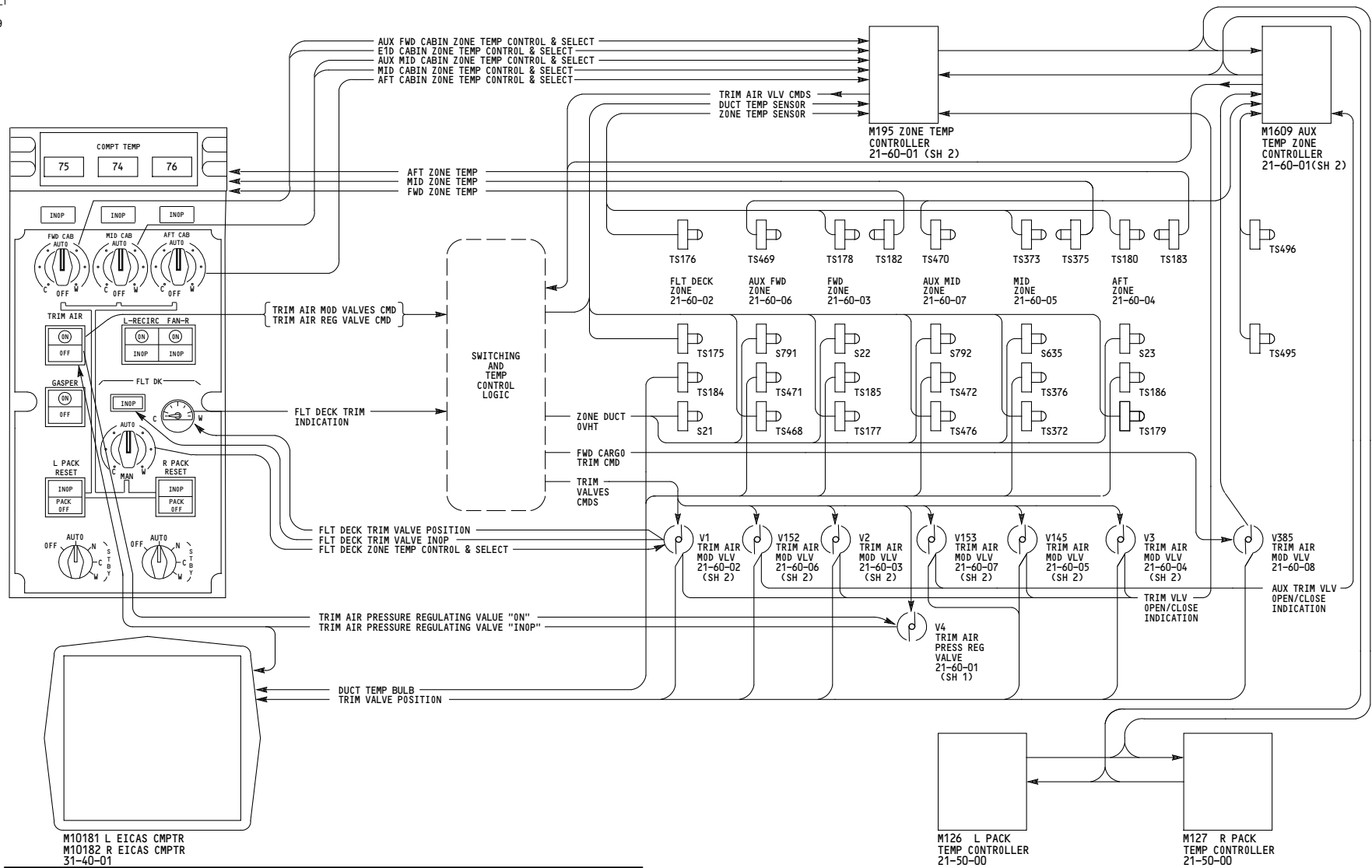
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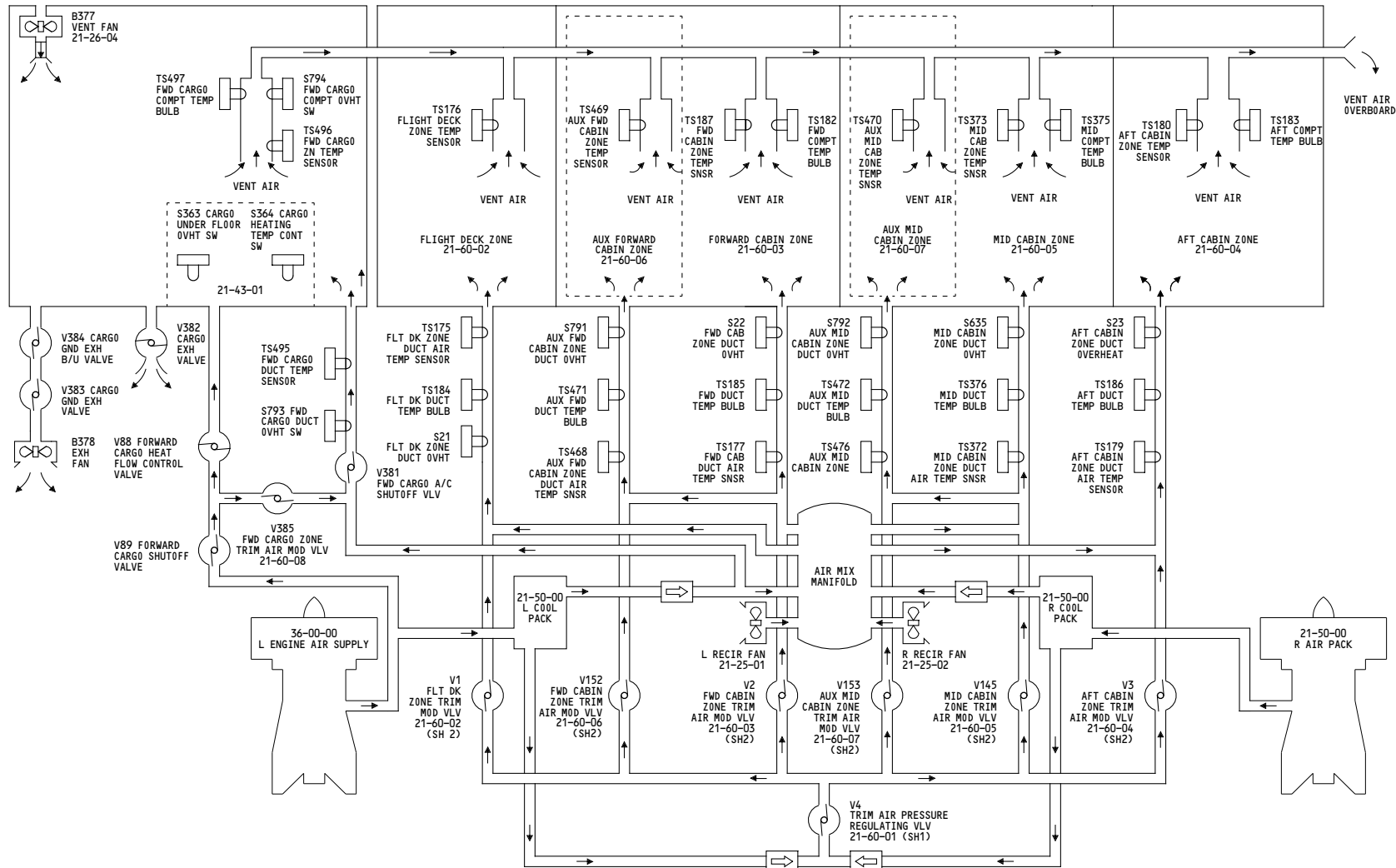
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SIMPLIFIED**

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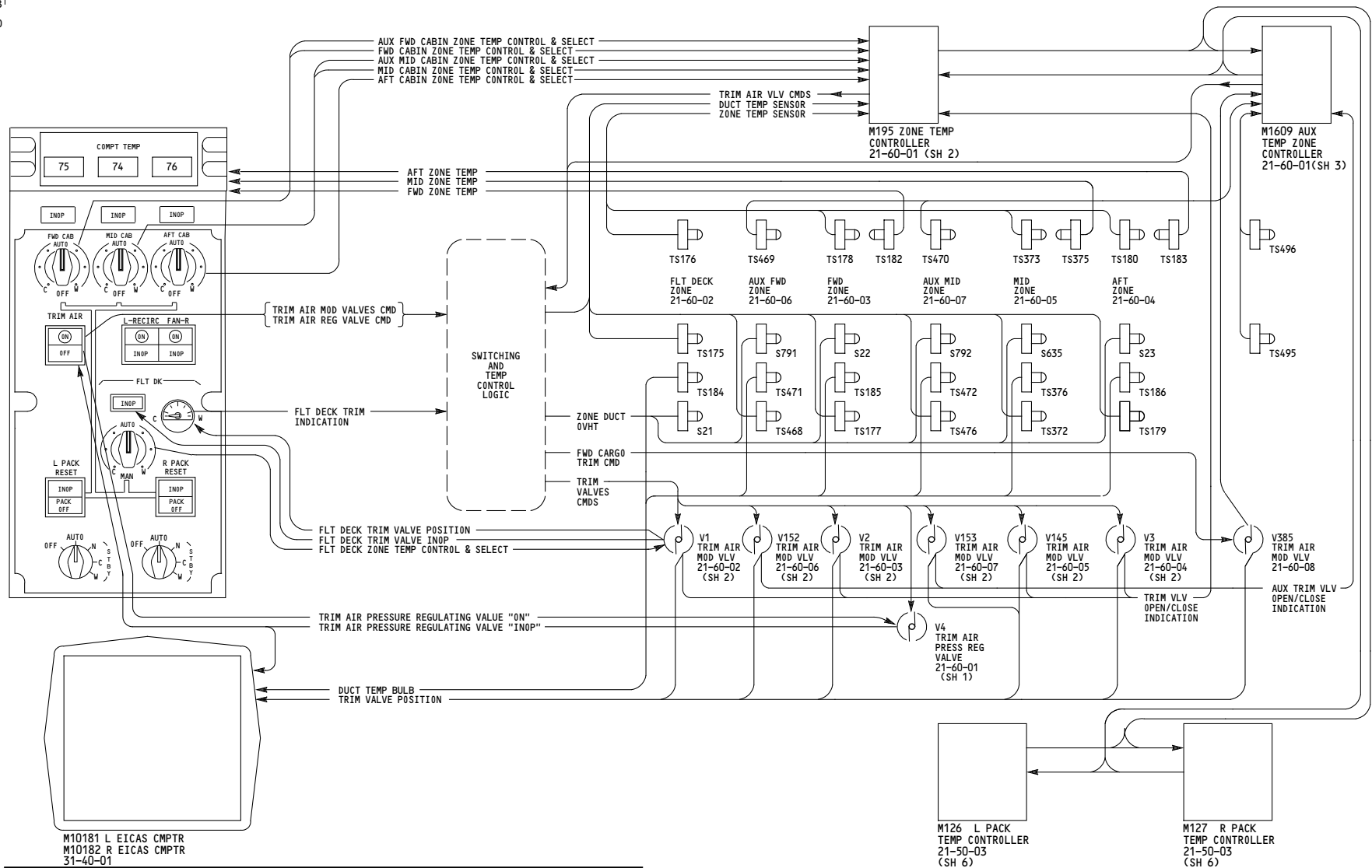
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SIMPLIFIED**

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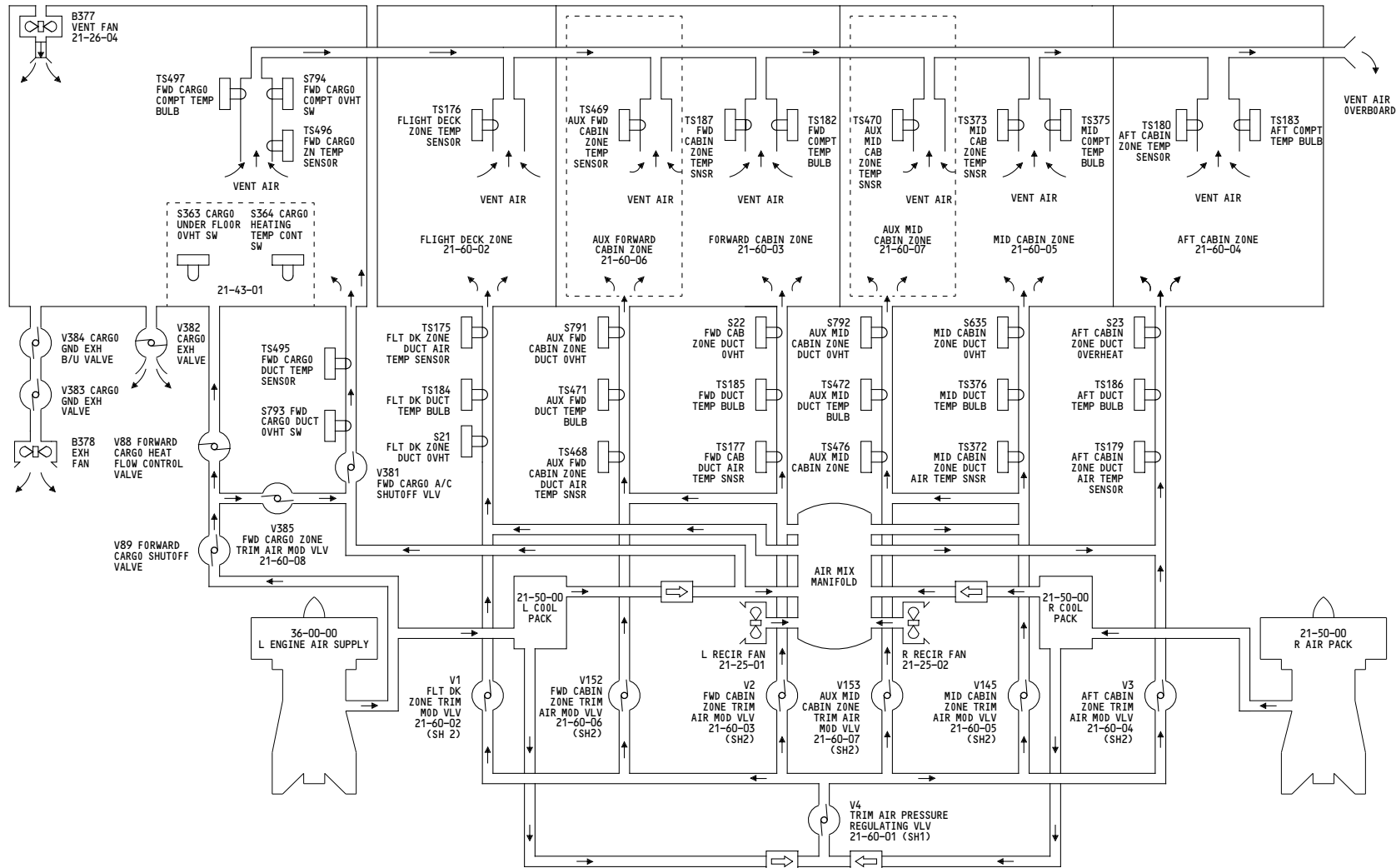
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SIMPLIFIED**

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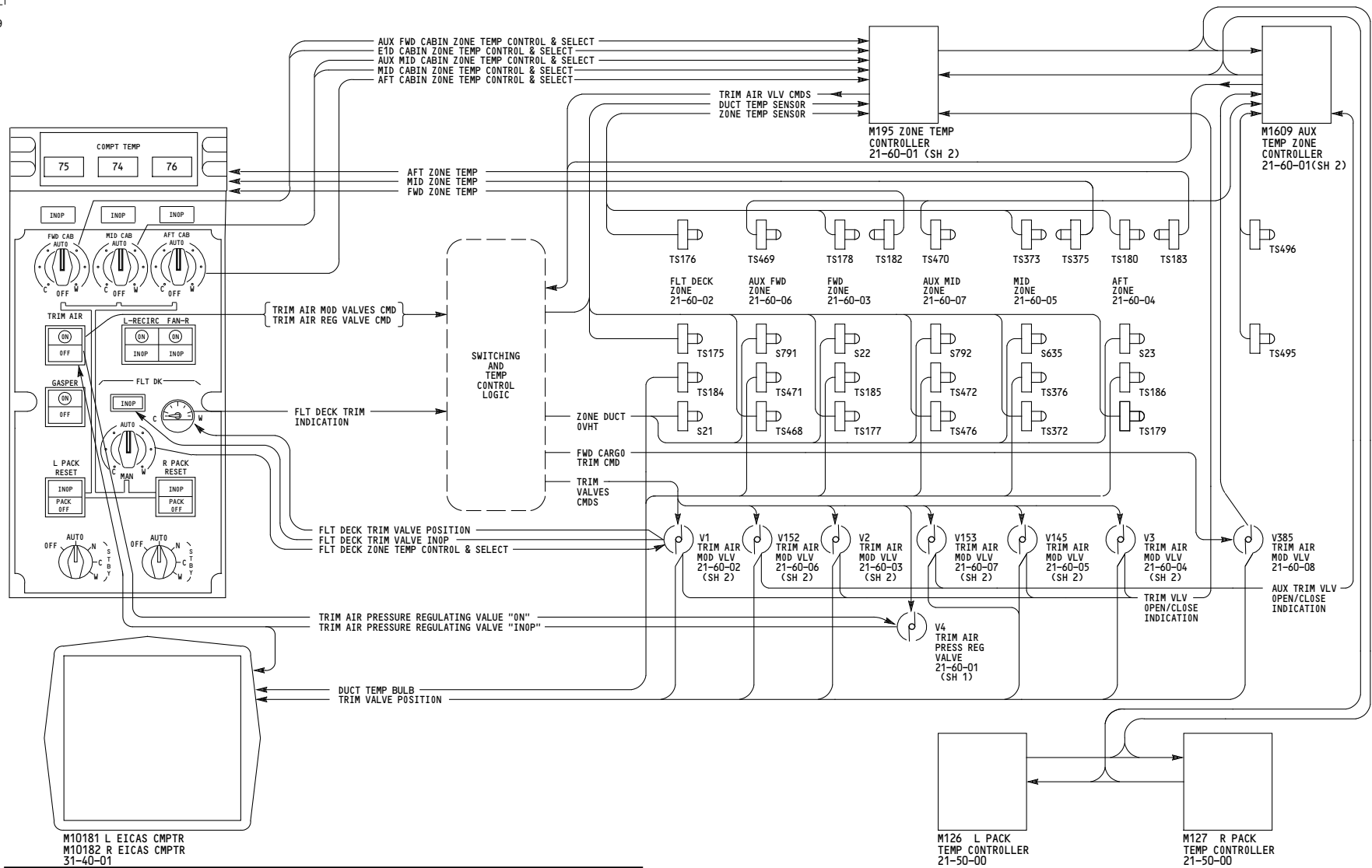
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SIMPLIFIED**

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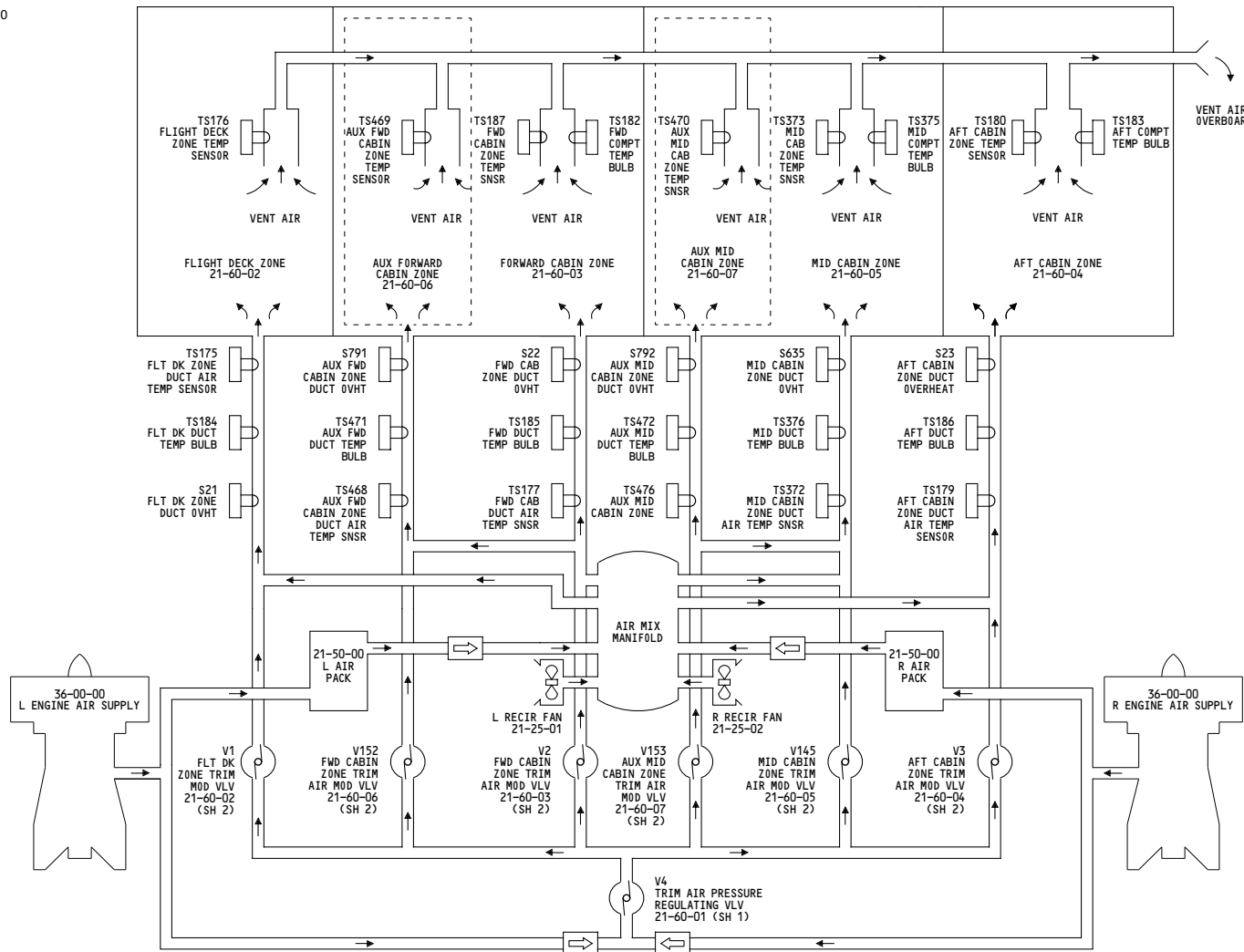
**TEMPERATURE CONTROL-
SIMPLIFIED**

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**TEMPERATURE CONTROL-
SIMPLIFIED**

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28V DC
BAT BUS
24-54-03
(SH 2)

28V DC
R BUS
24-54-02

115V AC
L BUS
24-51-01
(SH 2)

115V AC
L BUS
24-51-01
(SH 2)

P11 CB PNL ASSY

CARGO
A/C
STATUS
21-60-08
(SH 1)
21-28-01

M1610 L PACK FLOW
CARGO A/C CONT

WIRING DIAGRAMS
21-61-51

21-50-01 (SH 1)
OFF
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21-60-02 (SH 2)
FLT DECK ZONE

21-60-06 (SH 2)
AUX FWD CABIN ZONE

21-60-03 (SH 2)
FWD CABIN ZONE

21-60-07 (SH 2)
AUX MID CABIN ZONE

21-60-05 (SH 2)
MID CABIN ZONE

21-60-04 (SH 2)
AFT CABIN ZONE

21-60-02 (SH 1)
(S21)

21-60-07 (SH 1)
(K2064)

21-60-06 (SH 1)
(K2060)

21-60-03 (SH 1)
(K10312)

21-60-04 (SH 1)
(K10313)

21-60-05 (SH 1)
(K832)

INSTR LTS
33-13-01
(SH 4)

INSTR LTS
33-13-01

MD&T
33-16-01
(SH 4)

21-60-08
(SH 1)

21-51-04 (SH 6)

21-50-03 (SH 6)

21-50-04 (SH 6)

21-50-05 (SH 6)

21-50-06 (SH 6)

21-50-07 (SH 6)

21-50-08 (SH 6)

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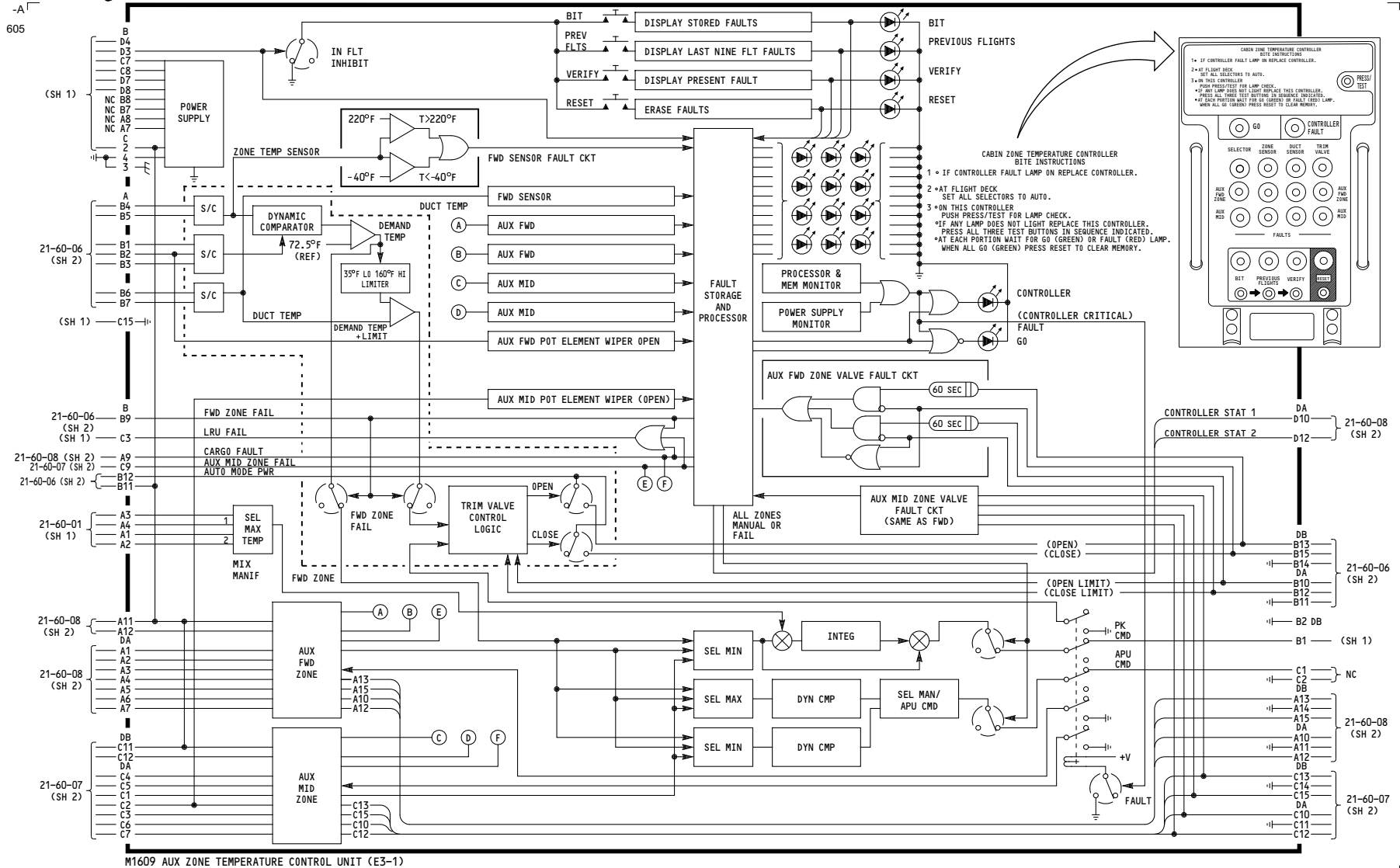
21-50-157 (SH 6)

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**TEMPERATURE CONTROL
ZONE**

21-60-01



M1609 AUX ZONE TEMPERATURE CONTROL UNIT (E3-1)

050-099

TEMPERATURE CONTROL ZONE

D280T232

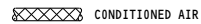
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WIRING DIAGRAMS
21-61-51



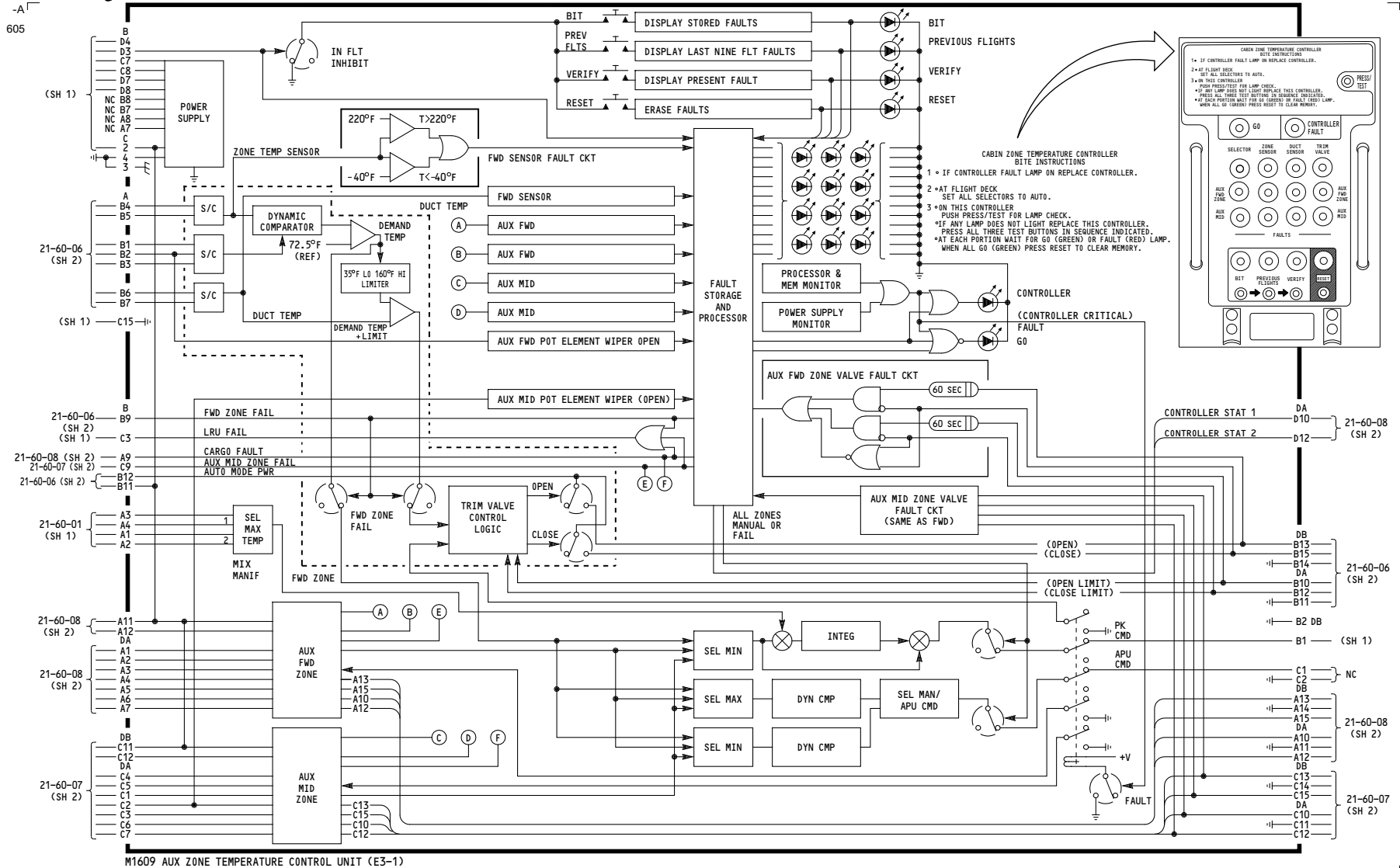
**TEMPERATURE CONTROL
ZONE**

21-60-01



**TEMPERATURE CONTROL
ZONE**

21-60-01



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TEMPERATURE CONTROL ZONE

D280T232

21-60-01

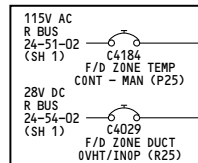
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611 NOTES:

- 1 INPUTS NOT CONNECTED TO BOTH EICAS COMPUTERS ARE DISTRIBUTED VIA THE CROSSTALK BUS.
- 2 PLACING THE ZONE TEMPERATURE SELECTOR TO AUTO PROVIDES COMPLETE AUTOMATIC TEMPERATURE CONTROL THROUGH M195. SETTING FLT/DK THE ZONE TEMPERATURE SELECTORS TO MANUAL ALLOWS MANUAL CONTROL OF THAT INDIVIDUAL ZONE. THE MANUAL MODE BYPASSES M195 FOR THAT ZONE. HOLDING THE SELECTOR TOWARDS THE WARM (W) OR COOL (C) MODE CHANGES THE POSITION OF THE TRIM AIR MODULATING VALVE, TRIMMING THE HOT AIR SUPPLY TO THE RESPECTIVE ZONE. RELEASING THE SELECTOR REMOVES POWER FROM THE TRIM AIR MODULATING VALVE, AND MAINTAINS THE VALVE IN ITS LAST POSITION. WITH ALL TEMPERATURE SELECTORS IN MANUAL OR OFF, THE SYSTEM AUTOMATICALLY OPERATES IN THE 75°F BACKUP MODE.

CONDITIONED AIR



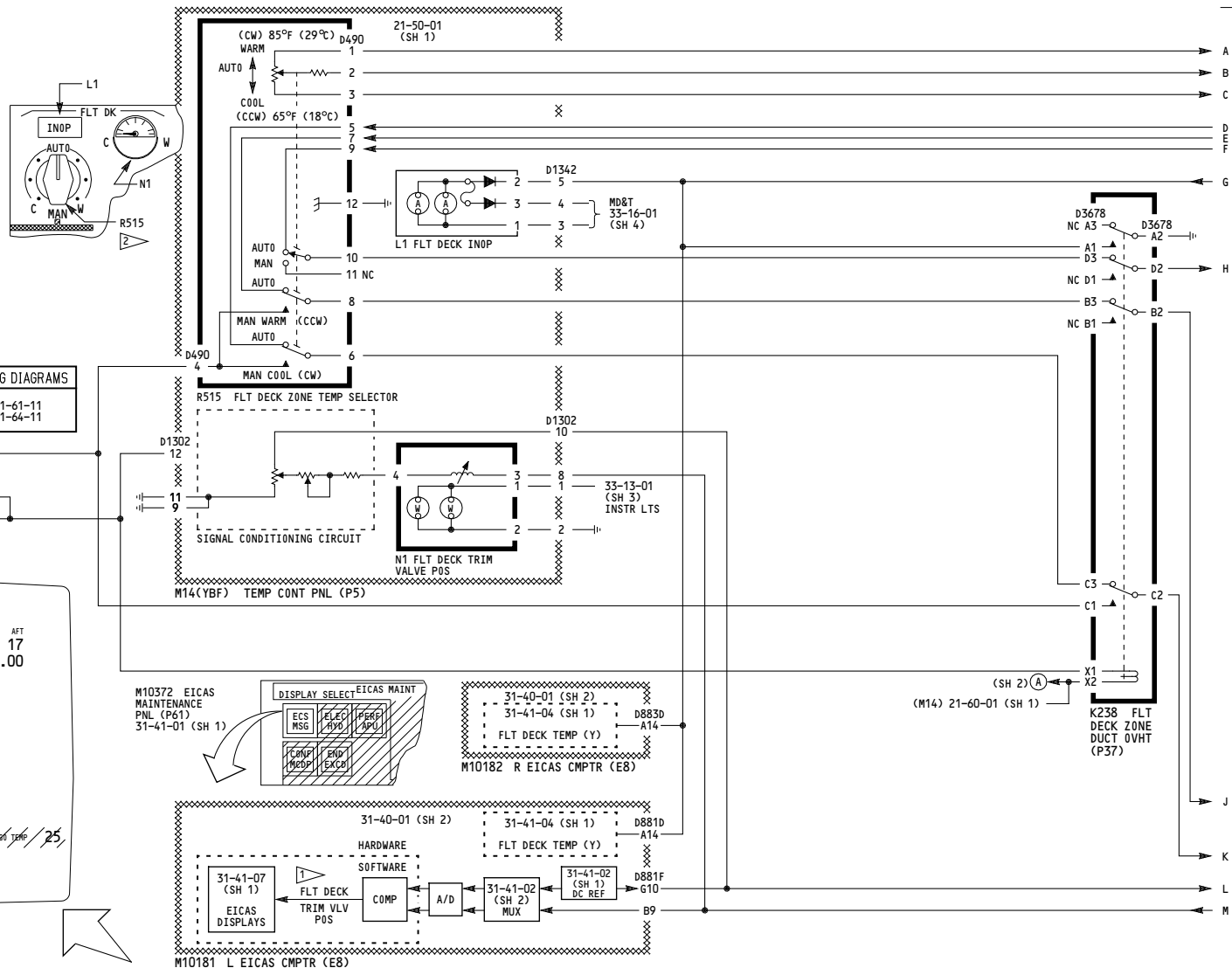
P11 CB PNL ASSY

STATUS		ECS/MSG			
		FLT DK	FWD	MID	AFT
DUCT TEMP	30	28	17	17	
TRIM VALVE	0.75	0.80	0.00	0.00	
PACK OUT					
TURB IN	9	10			
SEC EX OUT	1	3			
COMP OUT	96	98			
PRIM EX OUT	44	46			
PRIM EX IN	171	173			
PRECOOL OUT	193	196			
DUCT PRESS.	40	42			
PACK FLOW	62	64			
TEMP VALVE	0.75	0.80			
RAM IN DOOR	0.62	0.71			
RAM OUT DOOR	0.73	0.72			

MAN EVENT

N10014 EICAS LOWER
DISPLAY (P2)
MAINTENANCE FORMAT
31-41-07 (SH 2)

WIRING DIAGRAMS
21-61-11
21-64-11



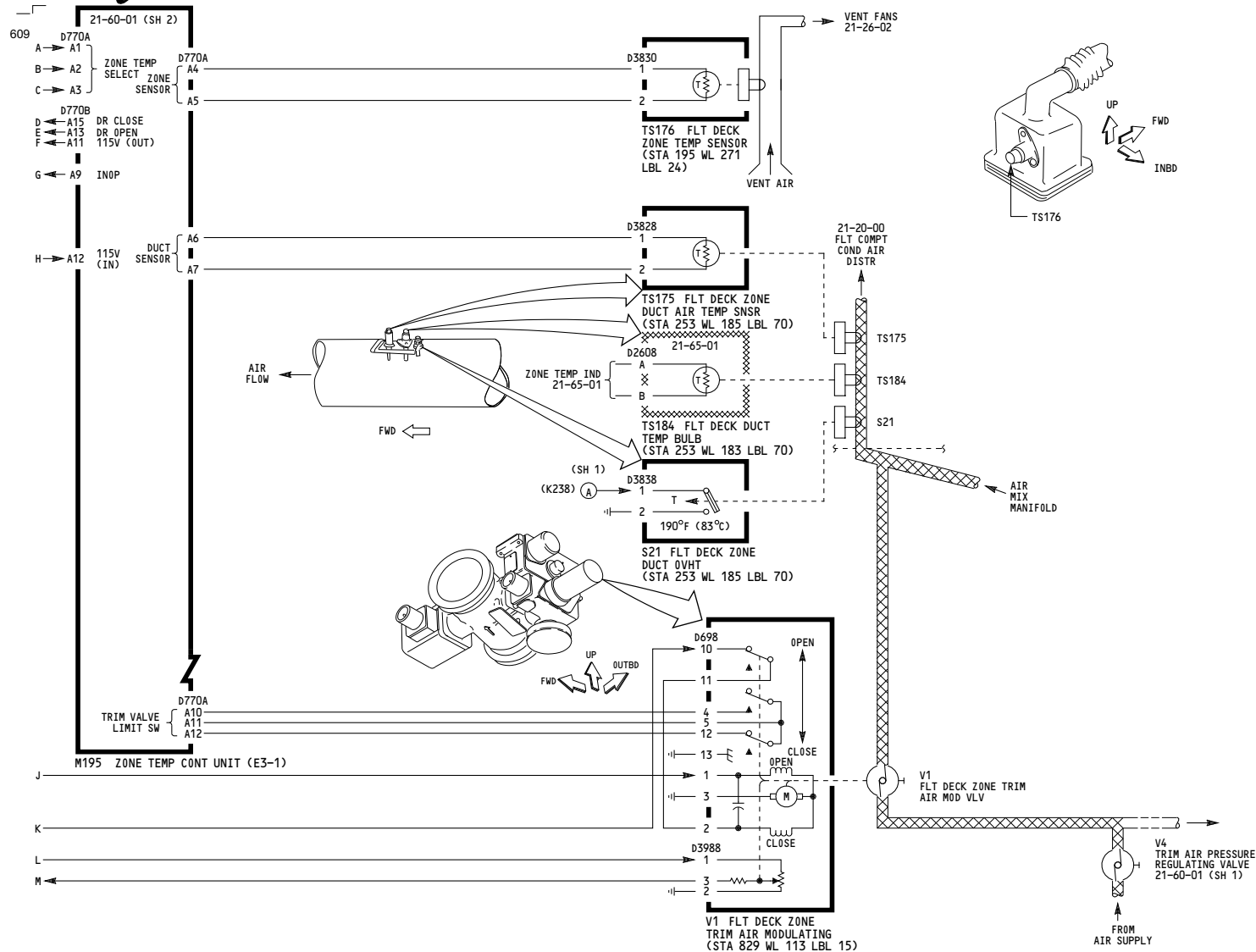
050-099, 150-199

**TEMPERATURE CONTROL AND
VALVE POSITION INDICATION
FLIGHT DECK ZONE**

D280T232

21-60-02

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TEMPERATURE CONTROL AND VALVE POSITION INDICATION FLIGHT DECK ZONE

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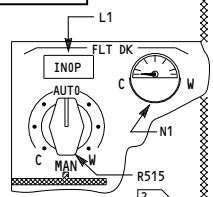
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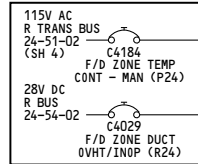
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617 NOTES:

- 1 INPUTS NOT CONNECTED TO BOTH EICAS COMPUTERS ARE DISTRIBUTED VIA THE CROSSTALK BUS.
- 2 PLACING THE ZONE TEMPERATURE SELECTOR TO AUTO PROVIDES COMPLETE AUTOMATIC TEMPERATURE CONTROL THROUGH M195. SETTING FLT/OK THE ZONE TEMPERATURE SELECTORS TO MANUAL ALLOWS MANUAL CONTROL OF THAT INDIVIDUAL ZONE. THE MANUAL MODE BYPASSES M195 FOR THAT ZONE. HOLDING THE SELECTOR TOWARDS THE WARM (W) OR COOL (C) MODE CHANGES THE POSITION OF THE TRIM AIR MODULATING VALVE, TRIMMING THE HOT AIR SUPPLY TO THE RESPECTIVE ZONE. RELEASING THE SELECTOR REMOVES POWER FROM THE TRIM AIR MODULATING VALVE, AND MAINTAINS THE VALVE IN ITS LAST POSITION. WITH ALL TEMPERATURE SELECTORS IN MANUAL OR OFF, THE SYSTEM AUTOMATICALLY OPERATES IN THE 75°F BACKUP MODE.

WIRING DIAGRAMS
21-61-11
21-64-11



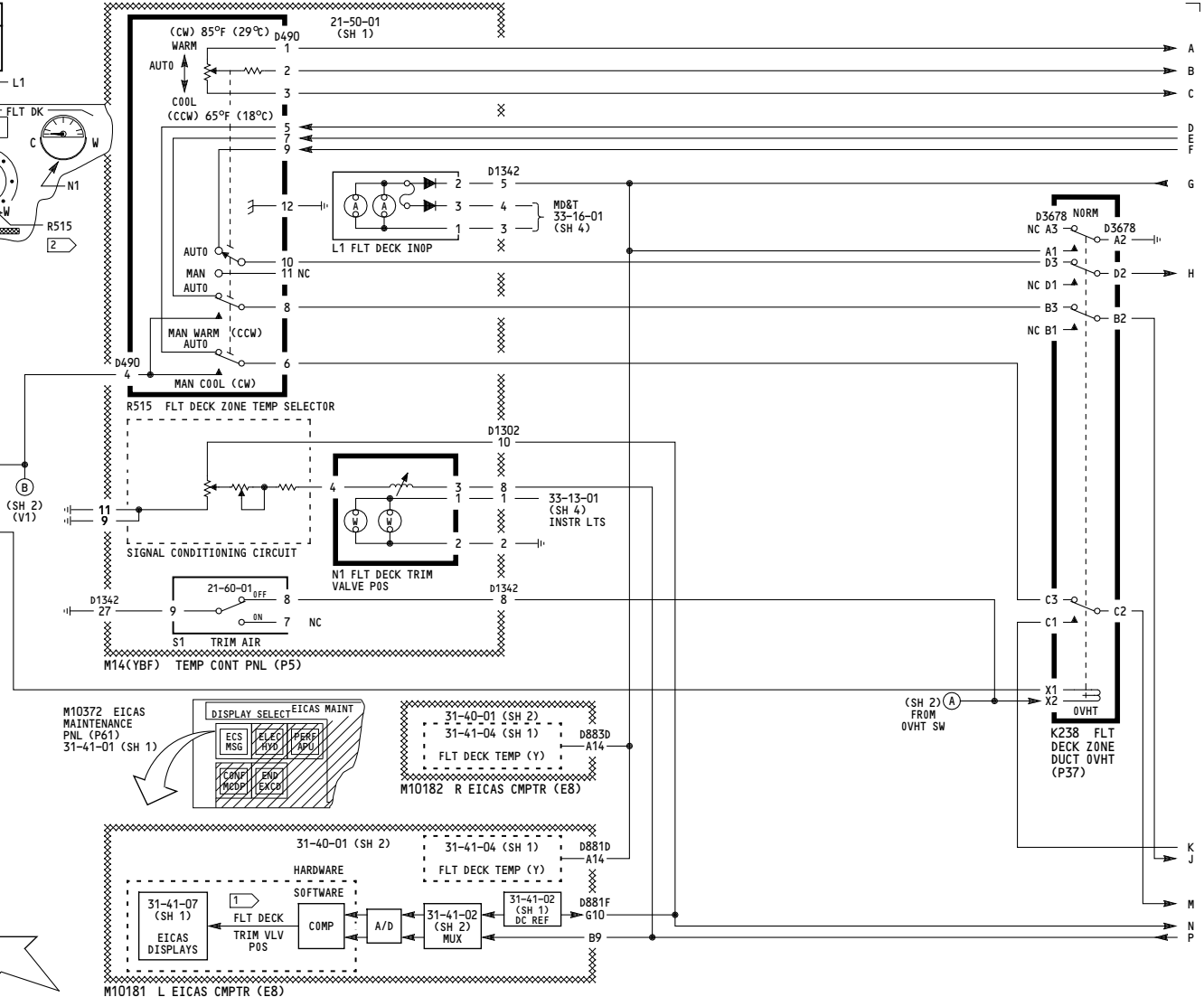
CONDITIONED AIR



P11 CB PNL ASSY

STATUS		ECS/MSG	
DUCT TEMP	FLT DK	FWD	AFT
30	28	17	17
TRIM VALVE	0.75	0.80	0.00
0.75	0.80	0.00	0.00
PACK OUT	L	R	
9	10		
SEC. AIR OUT	1	3	
COMP. OUT	96	98	
PRIM. HS. OUT	44	46	
PRIM. HS. IN	171	173	
PRECOOL. OUT	193	196	
DUCT PRESS.	40	42	
PACK FLOW			
TEMP VALVE	0.75	0.80	
RAM IN DOOR	0.62	0.71	
RAM OUT DOOR	0.73	0.72	
MAN EVENT			

N10014 EICAS LOWER DISPLAY (P2) MAINTENANCE FORMAT 31-41-07 (SH 2)



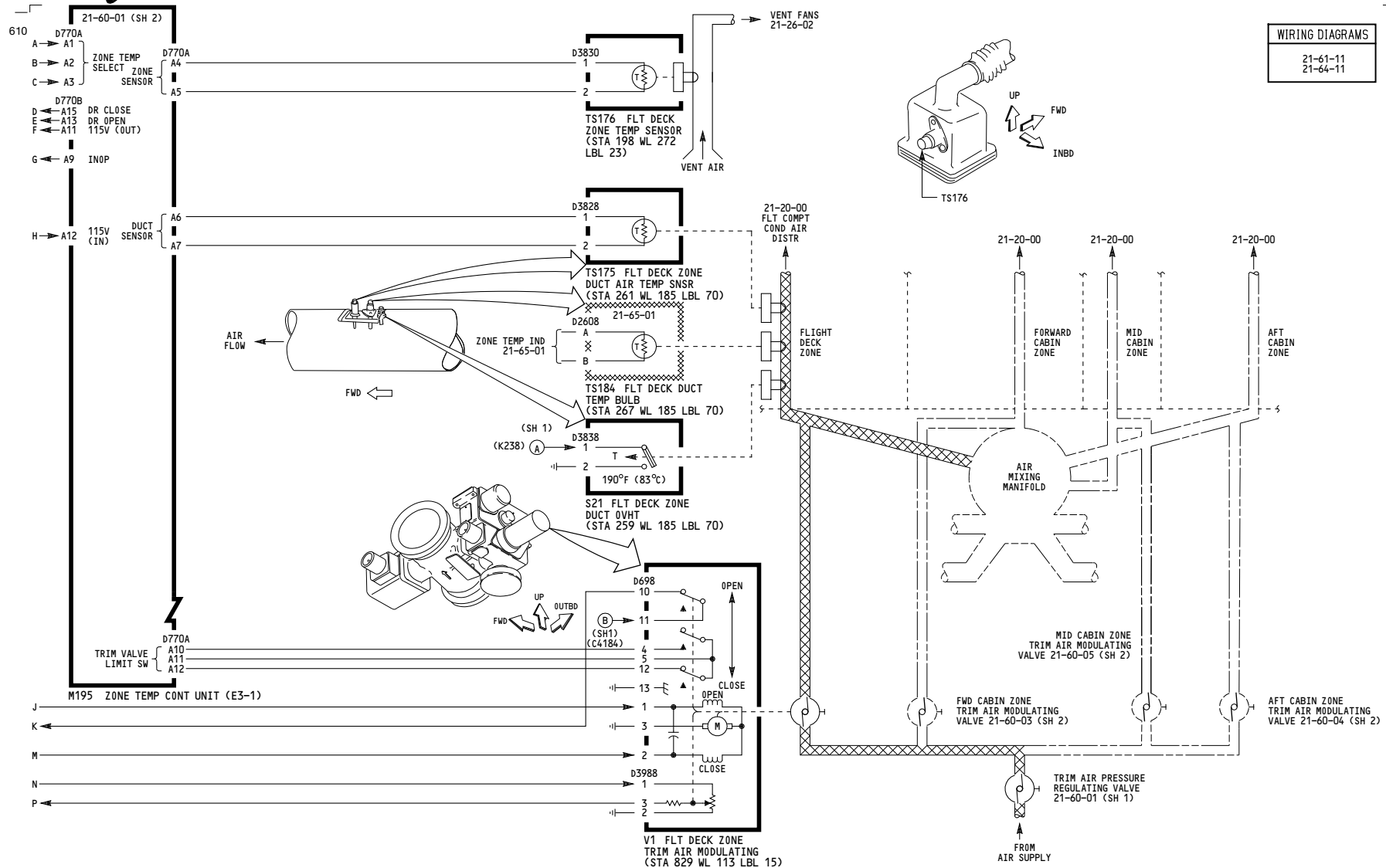
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TEMPERATURE CONTROL AND VALVE POSITION INDICATION FLIGHT DECK ZONE

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TEMPERATURE CONTROL AND VALVE POSITION INDICATION FLIGHT DECK ZONE

D280T232

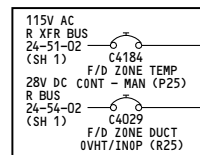
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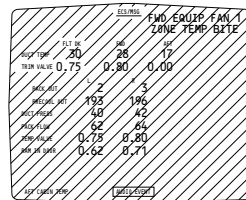
610 NOTES:

- 1 INPUTS NOT CONNECTED TO BOTH EICAS COMPUTERS ARE DISTRIBUTED VIA THE CROSSTALK BUS
- 2 PLACING THE ZONE TEMPERATURE SELECTOR TO AUTO PROVIDES COMPLETE AUTOMATIC TEMPERATURE CONTROL THROUGH M195. SETTING FLTR/OFF OF THE ZONE TEMPERATURE SELECTORS TO MANUAL ALLOWS MANUAL CONTROL OF THAT INDIVIDUAL ZONE. THE MANUAL MODE BYPASSES M195 FOR THAT ZONE, HOLDING THE SELECTOR IN EITHER THE WARM (W) OR COOL (C) MODE CHANGES THE POSITION OF THE TRIM AIR MODULATING VALVE, TRIMMING THE HOT AIR SUPPLY TO THE RESPECTIVE ZONE. RELEASING THE SELECTOR REMOVES POWER FROM THE TRIM AIR MODULATING VALVE, AND MAINTAINS THE VALVE IN ITS LAST POSITION. WITH THE ZONE TEMPERATURE SELECTORS IN MANUAL OR OFF, THE SYSTEM AUTOMATICALLY OPERATES IN THE 75° BACKUP MODE.

CONDITIONED AIR



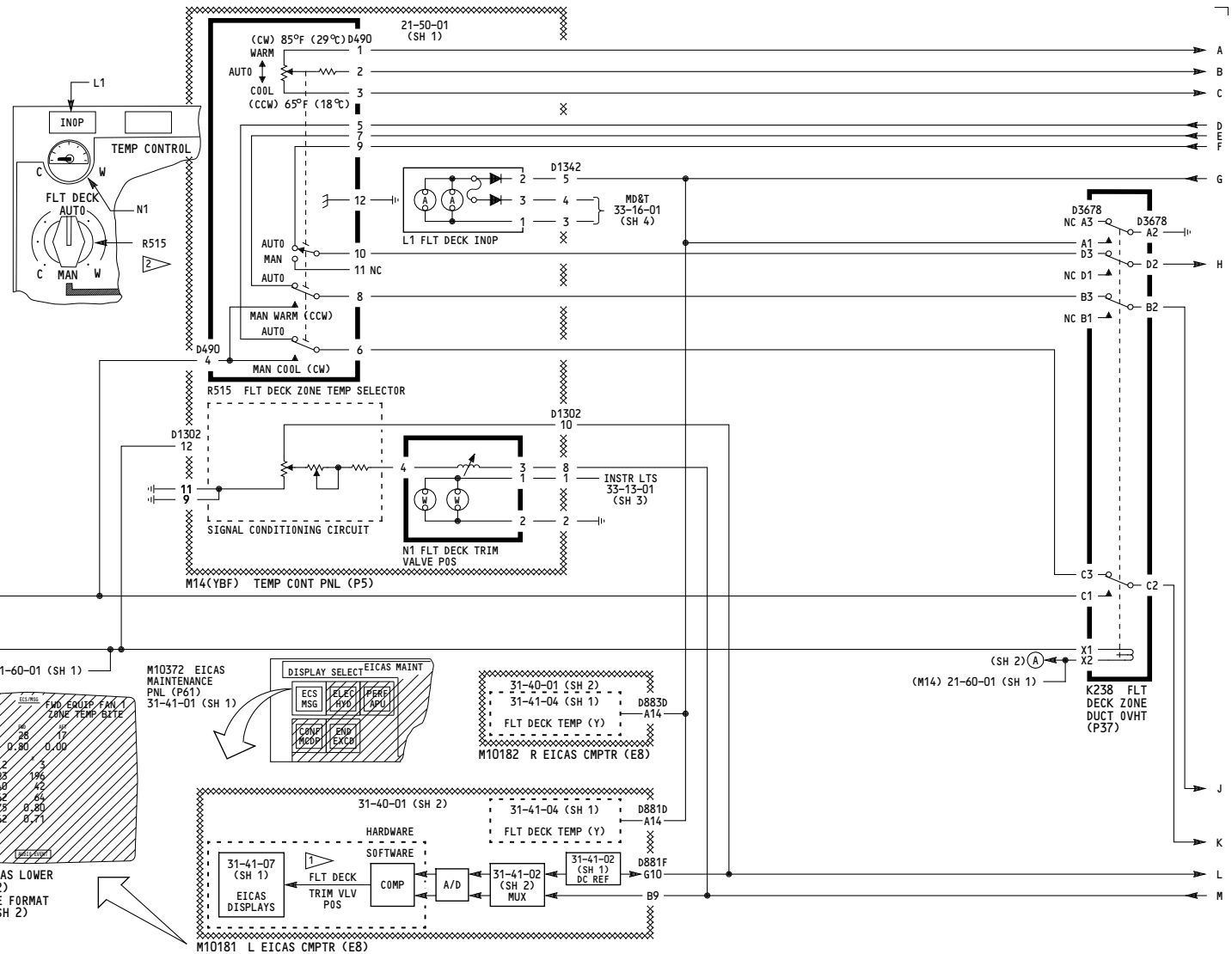
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N10014 EICAS LOWER
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MAINTENANCE FORMAT
31-41-07 (SH 2)

WIRING DIAGRAMS

21-61-11
21-64-11



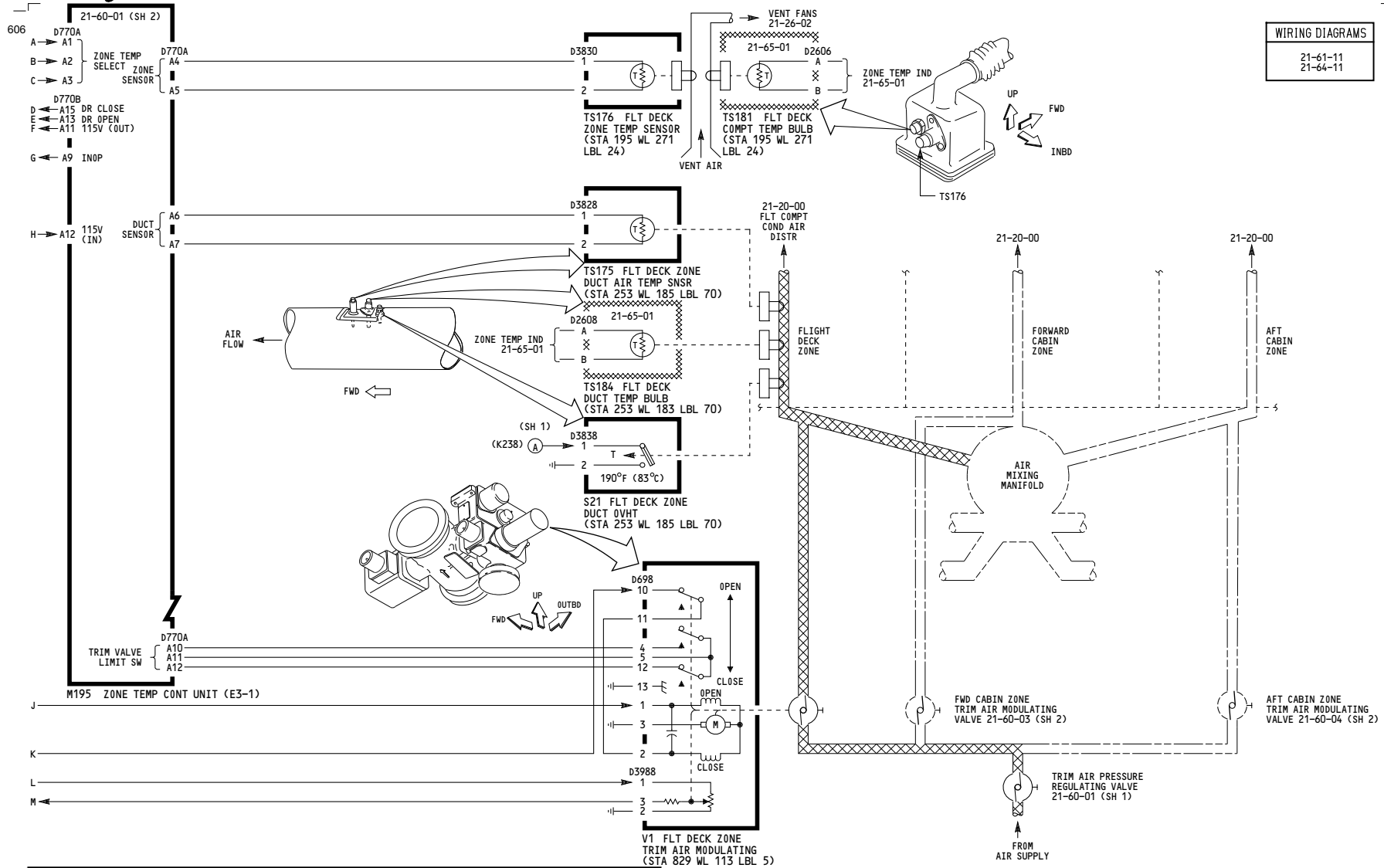
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**TEMPERATURE CONTROL AND
VALVE POSITION INDICATION
FLIGHT DECK ZONE**

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**TEMPERATURE CONTROL AND
VALVE POSITION INDICATION
FLIGHT DECK ZONE**

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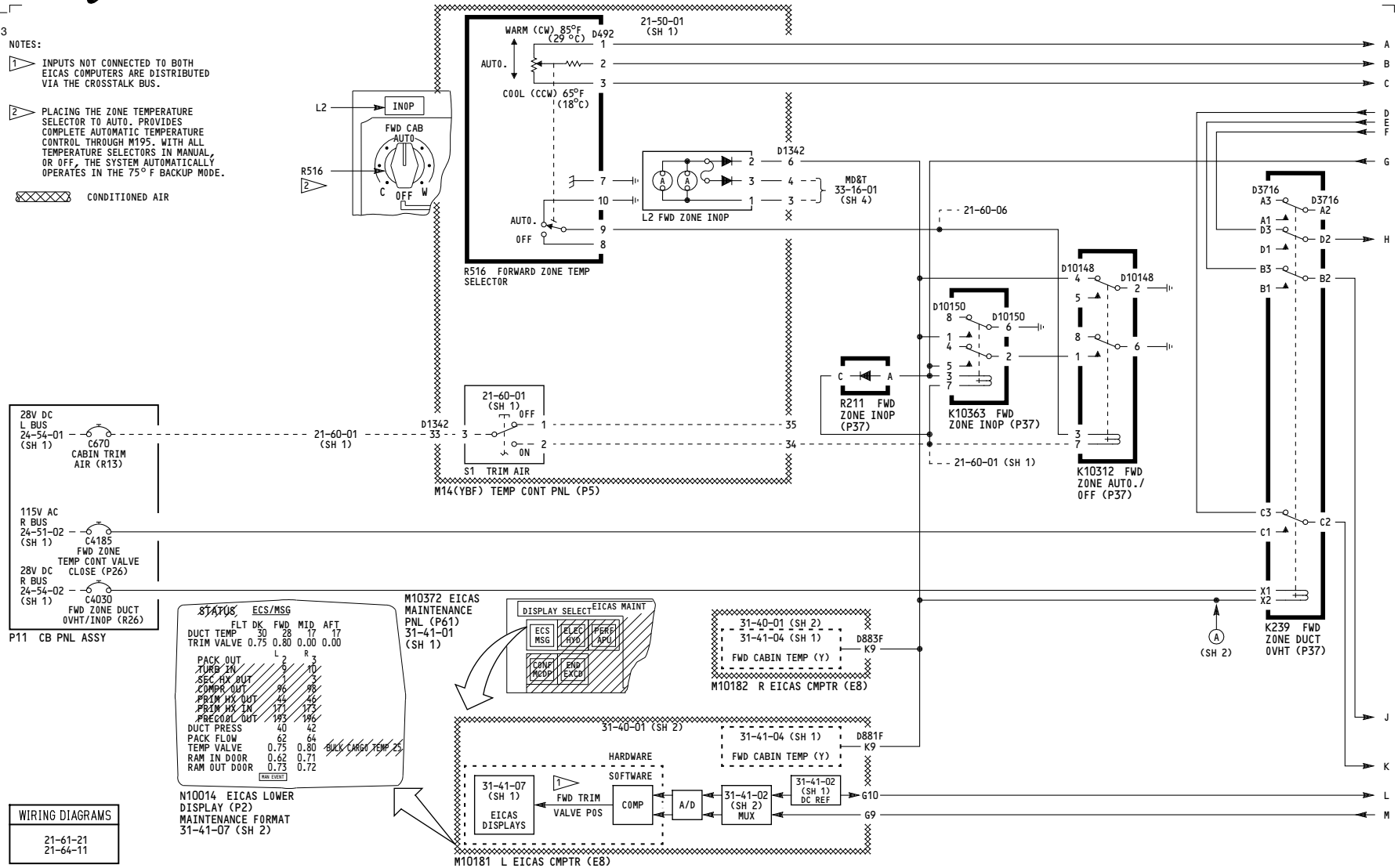
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NOTES:

- 1 INPUTS NOT CONNECTED TO BOTH EICAS COMPUTERS ARE DISTRIBUTED VIA THE CROSSTALK BUS.
- 2 PLACING THE ZONE TEMPERATURE SELECTOR TO AUTO. PROVIDES COMPLETE AUTOMATIC TEMPERATURE CONTROL THROUGH M195. WITH ALL TEMPERATURE SELECTORS IN MANUAL, OR OFF, THE SYSTEM AUTOMATICALLY OPERATES IN THE 75°F BACKUP MODE.

CONDITIONED AIR

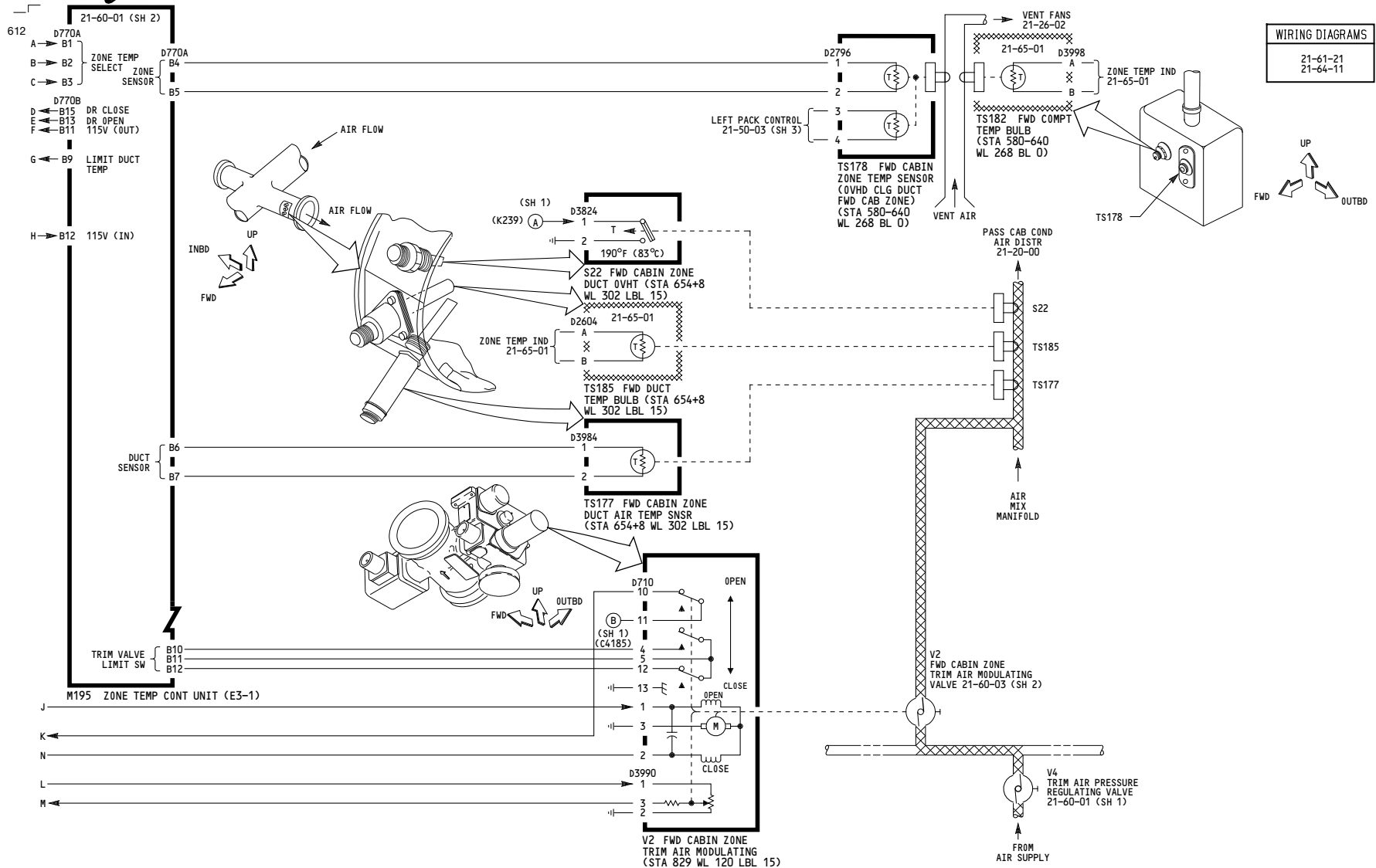


TEMPERATURE CONTROL AND VALVE POSITION INDICATION FORWARD ZONE

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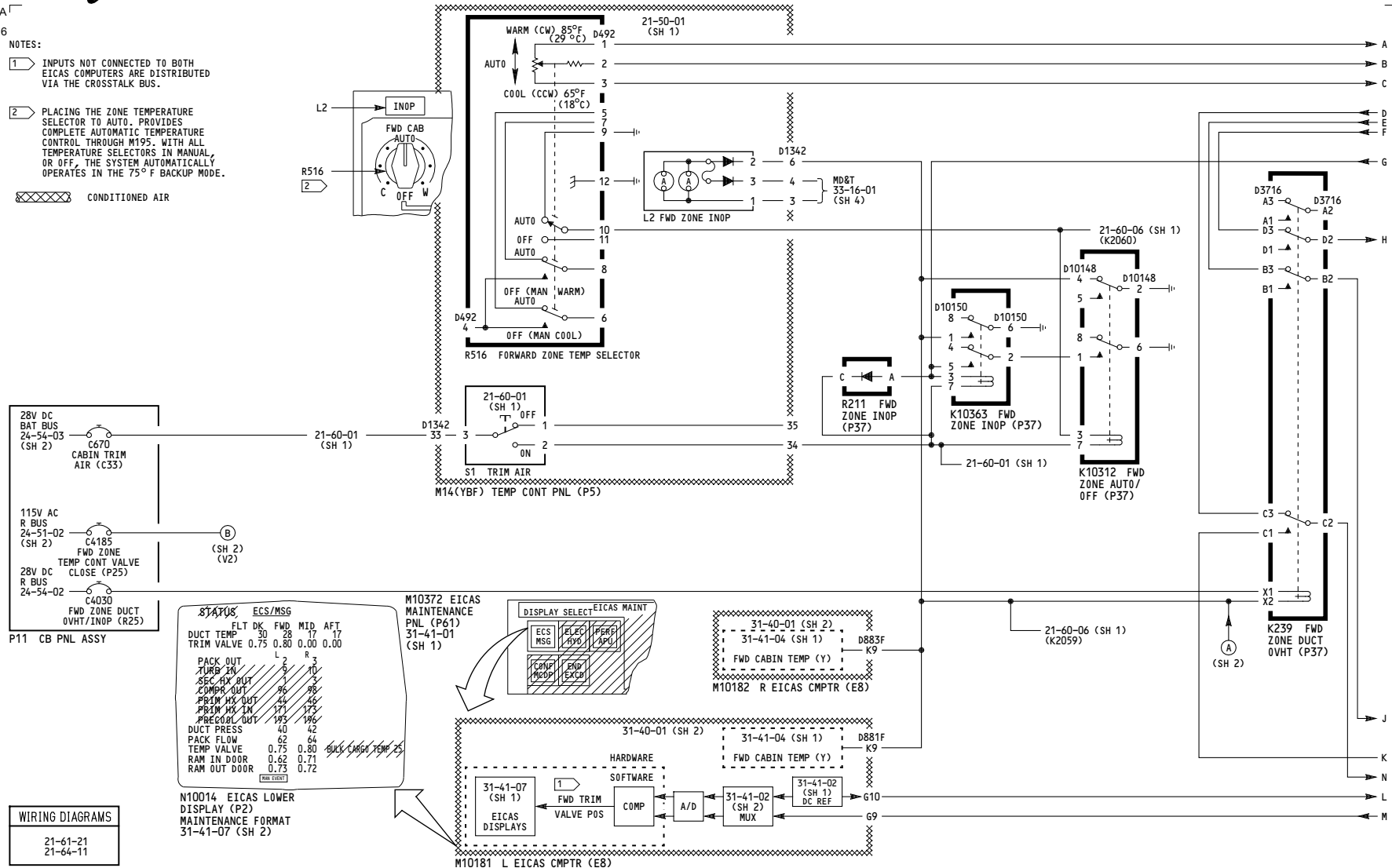
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- 2 PLACING THE ZONE TEMPERATURE SELECTOR TO AUTO. PROVIDES COMPLETE AUTOMATIC TEMPERATURE CONTROL THROUGH M195. WITH ALL TEMPERATURE SELECTORS IN MANUAL, OR OFF, THE SYSTEM AUTOMATICALLY OPERATES IN THE 75°F BACKUP MODE.

CONDITIONED AIR

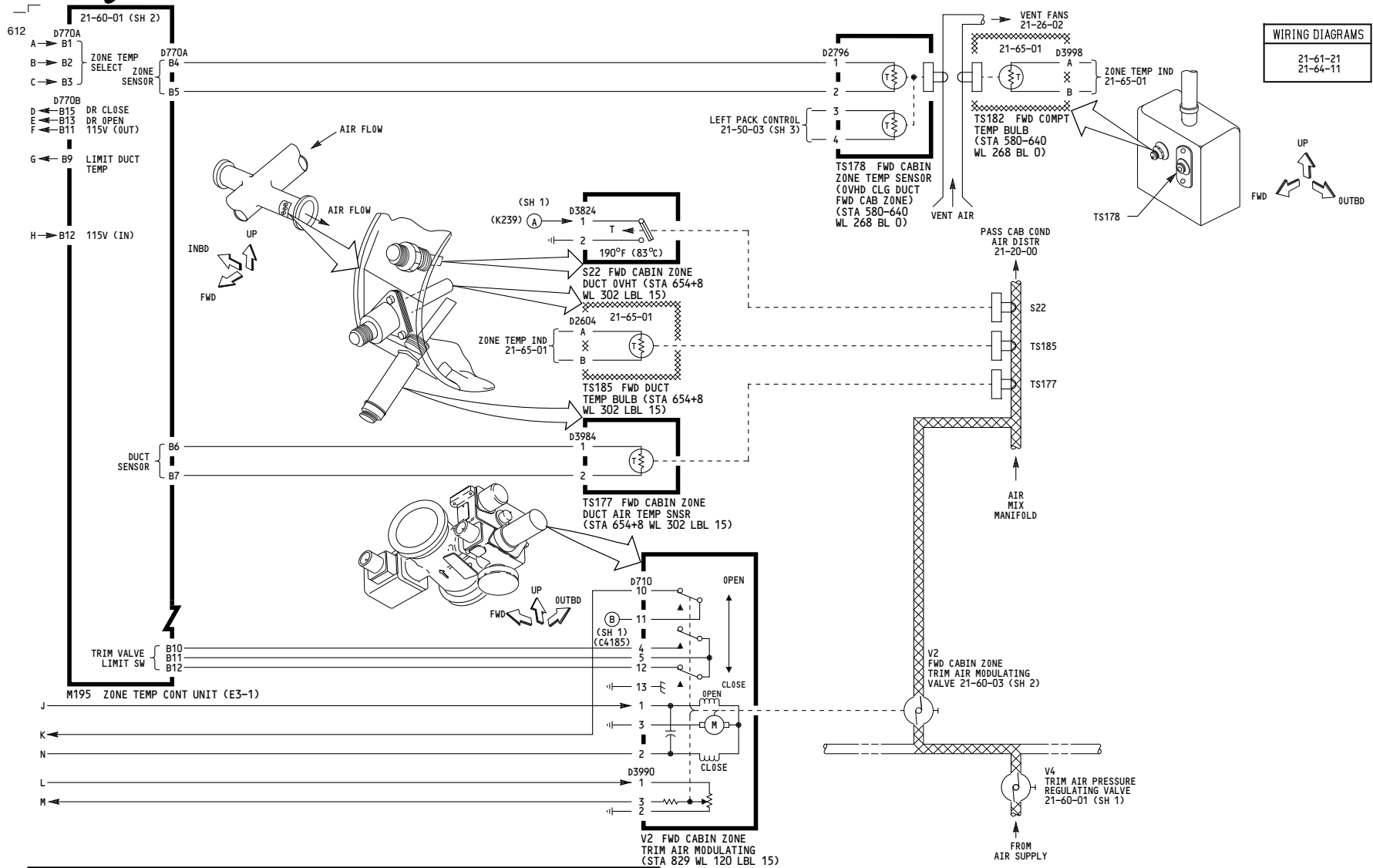



TEMPERATURE CONTROL AND VALVE POSITION INDICATION FORWARD ZONE

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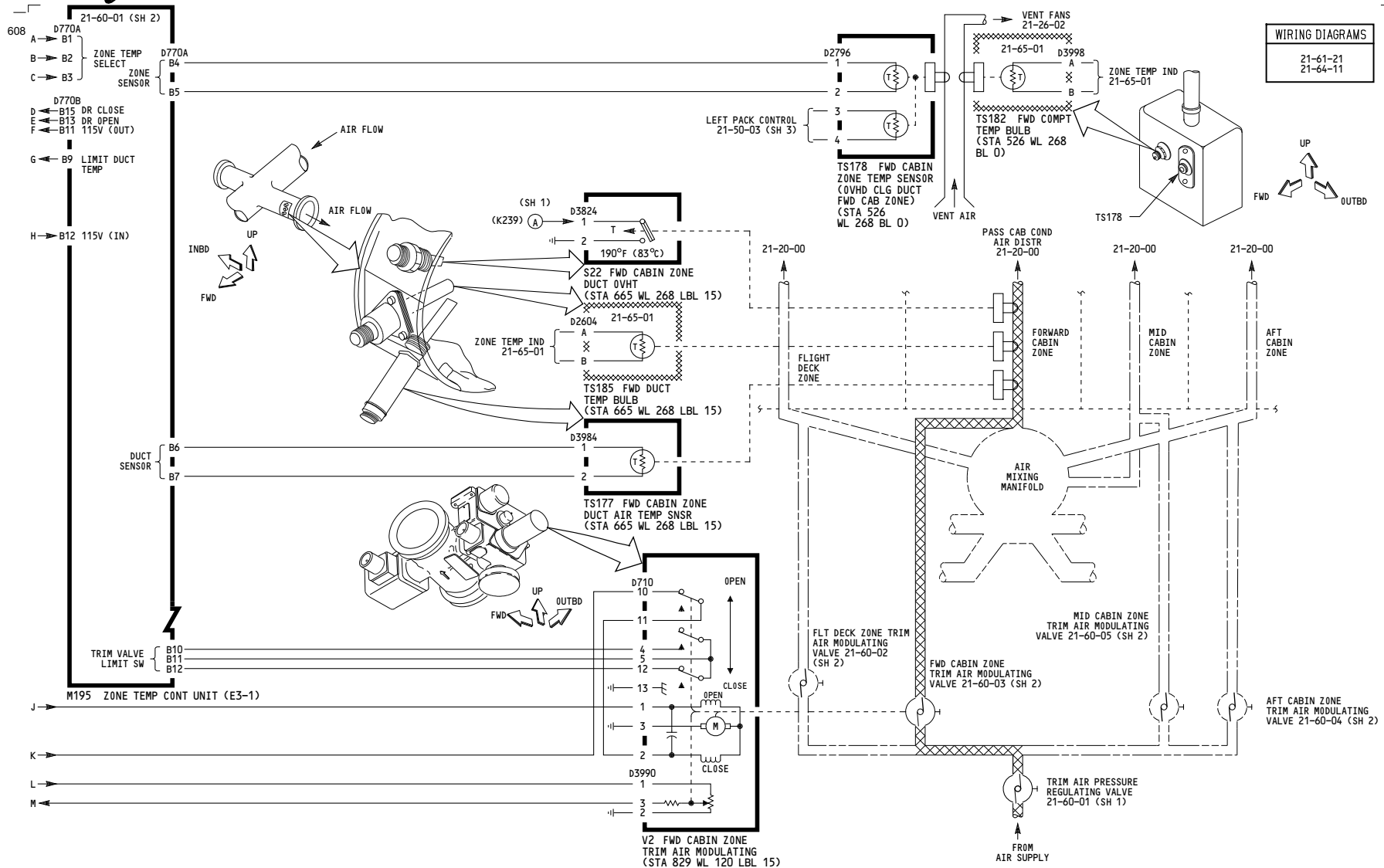




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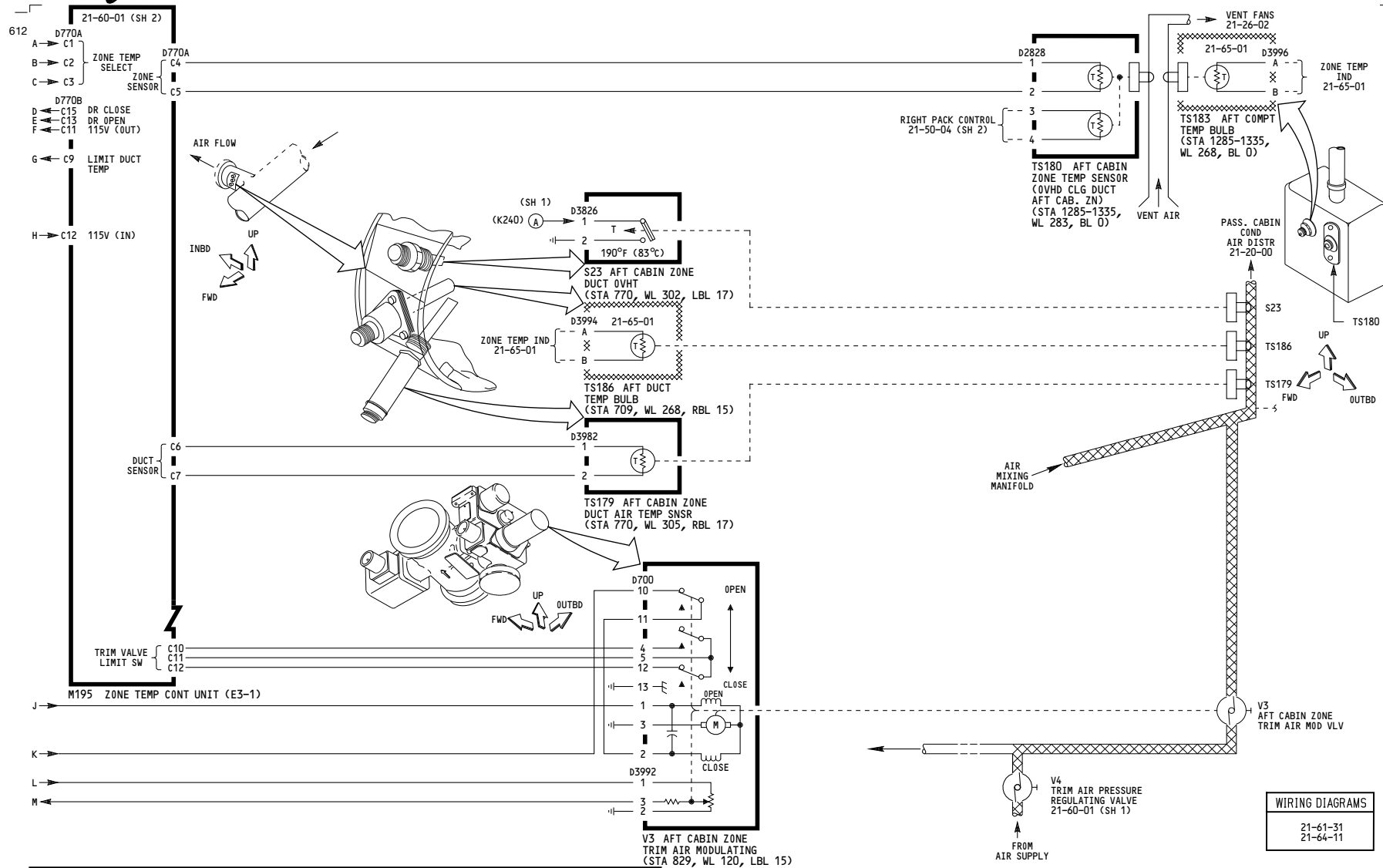
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**TEMPERATURE CONTROL AND
VALVE POSITION INDICATION
AFT ZONE**

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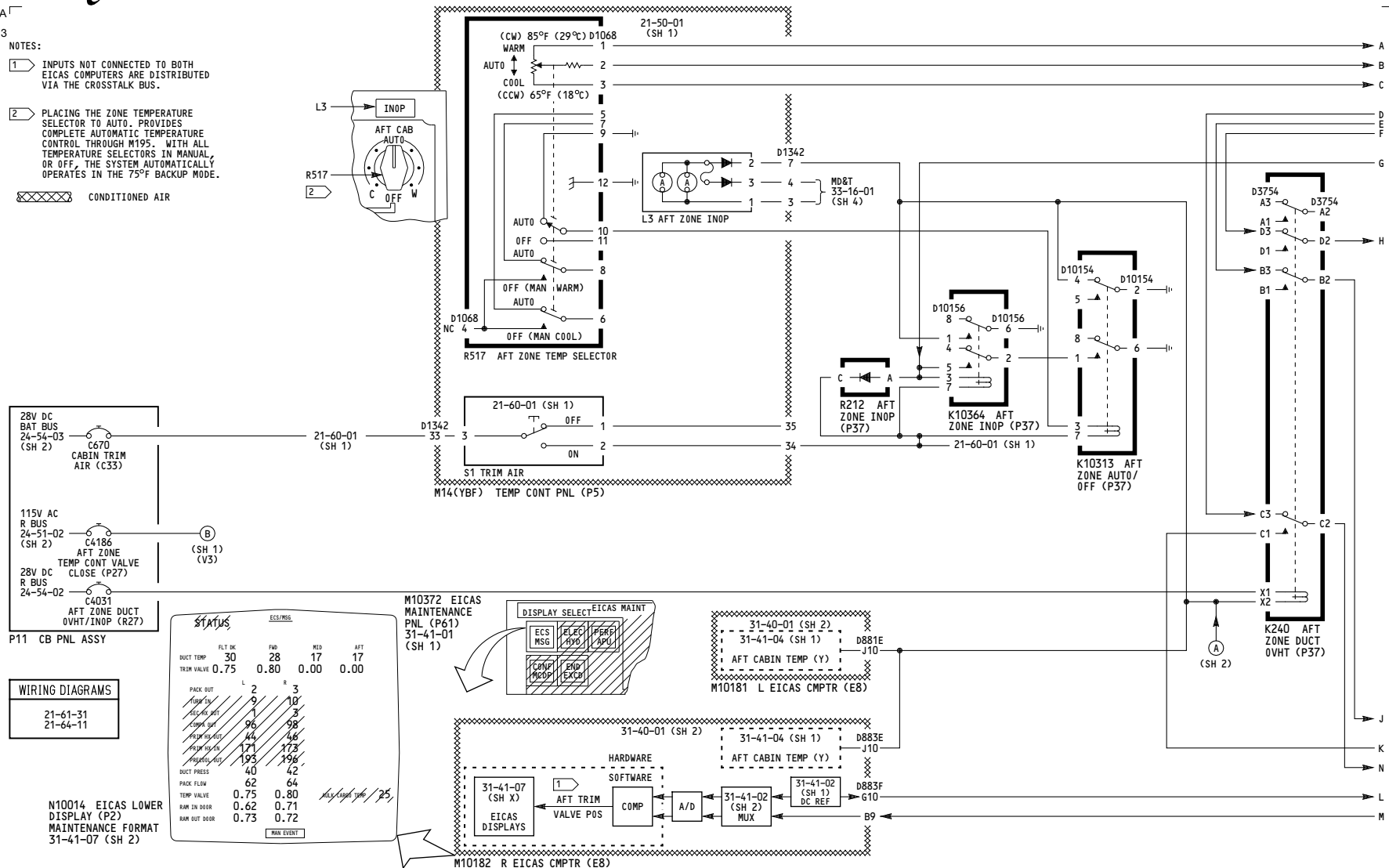
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CONDITIONED AIR



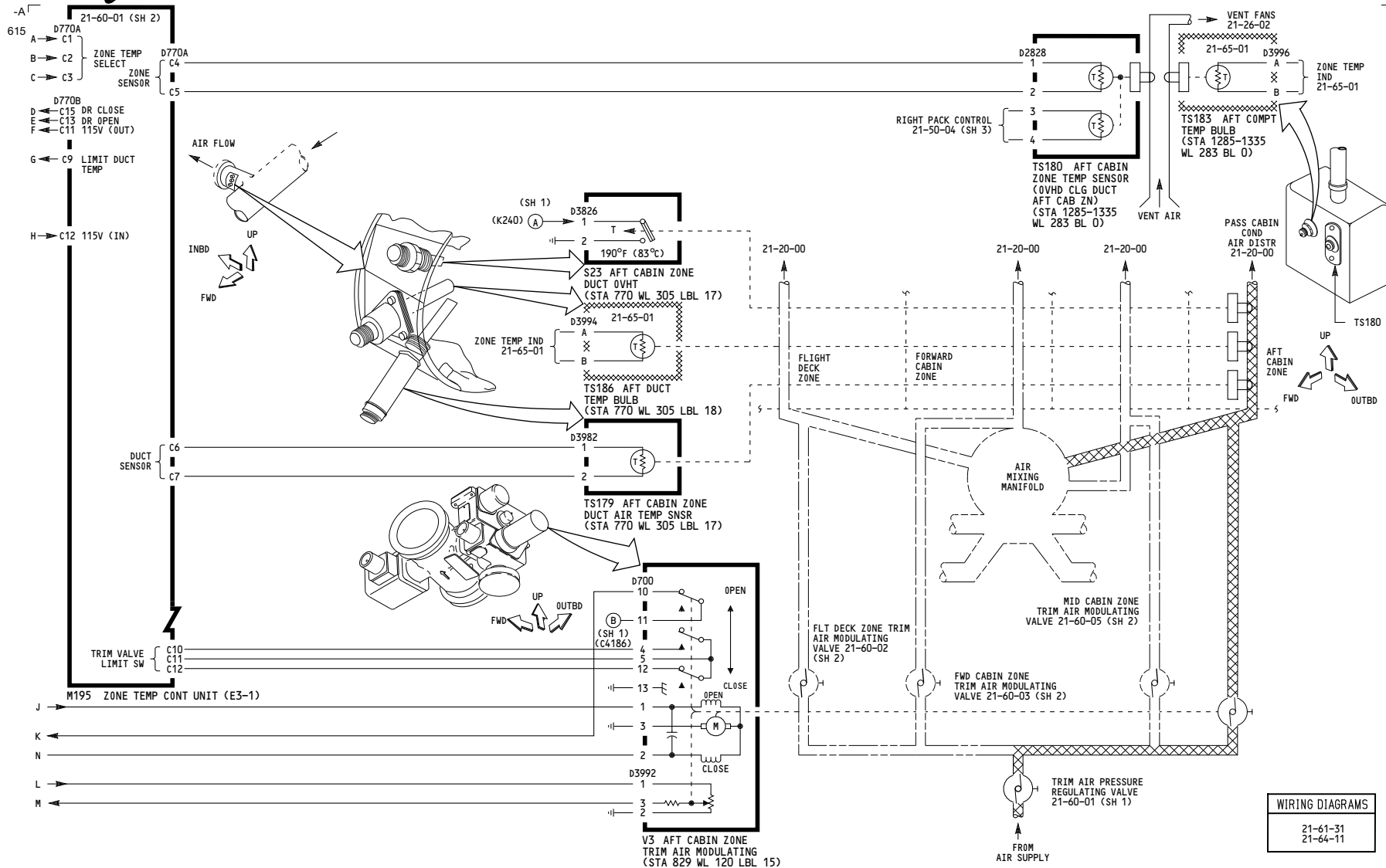
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**TEMPERATURE CONTROL AND
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AFT ZONE**

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TEMPERATURE CONTROL AND VALVE POSITION INDICATION AFT ZONE

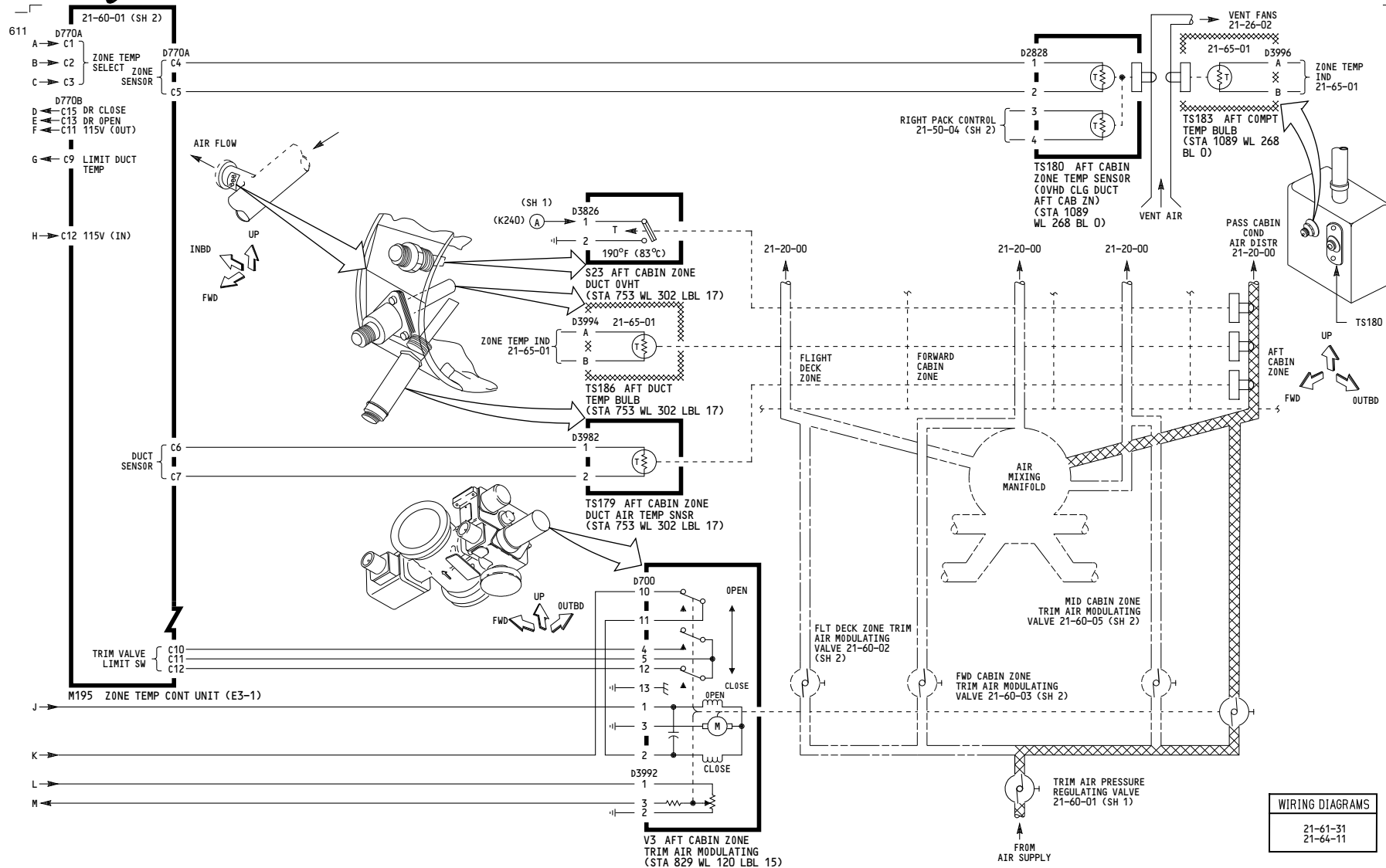
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**TEMPERATURE CONTROL AND
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AFT ZONE**

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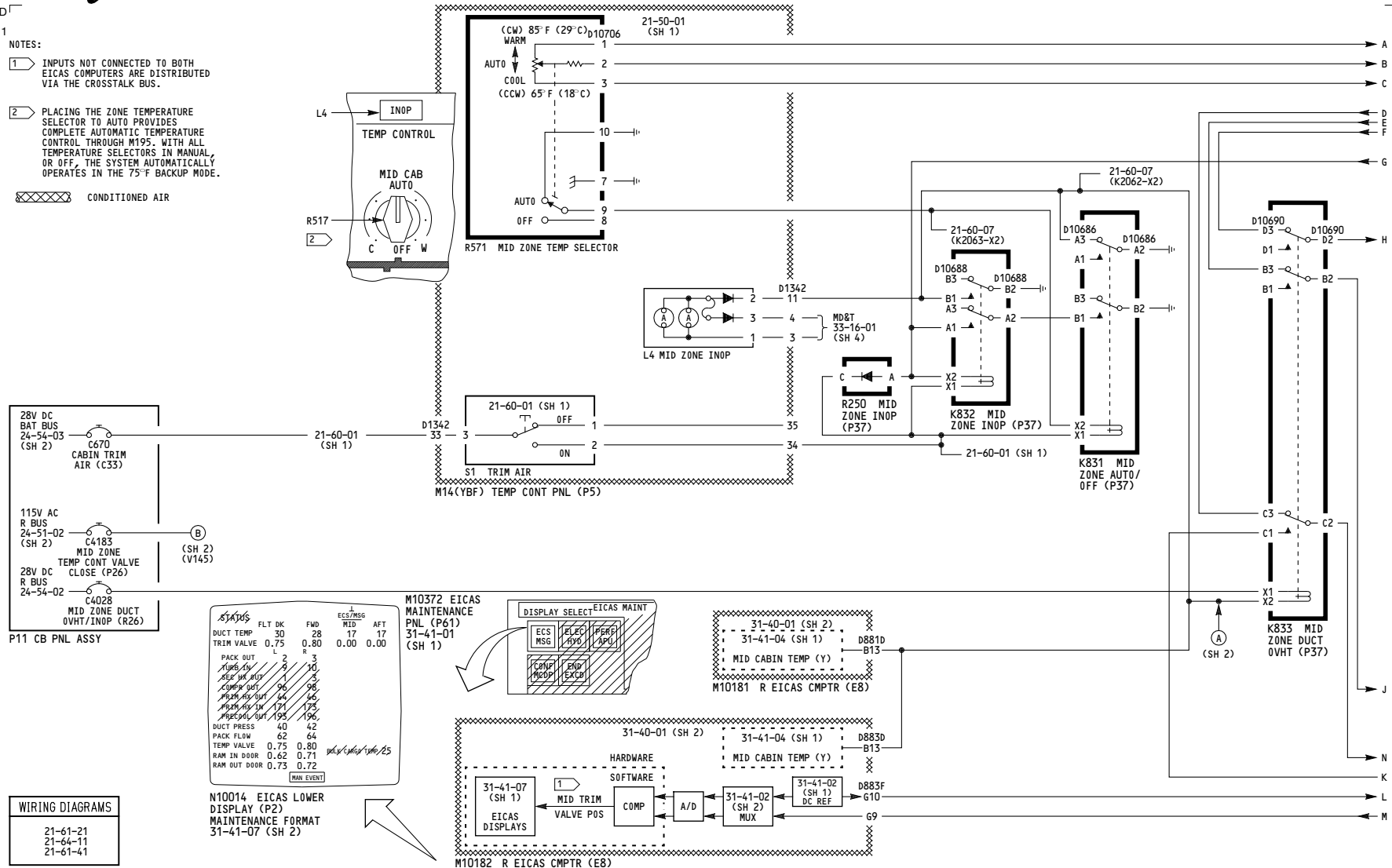
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CONDITIONED AIR



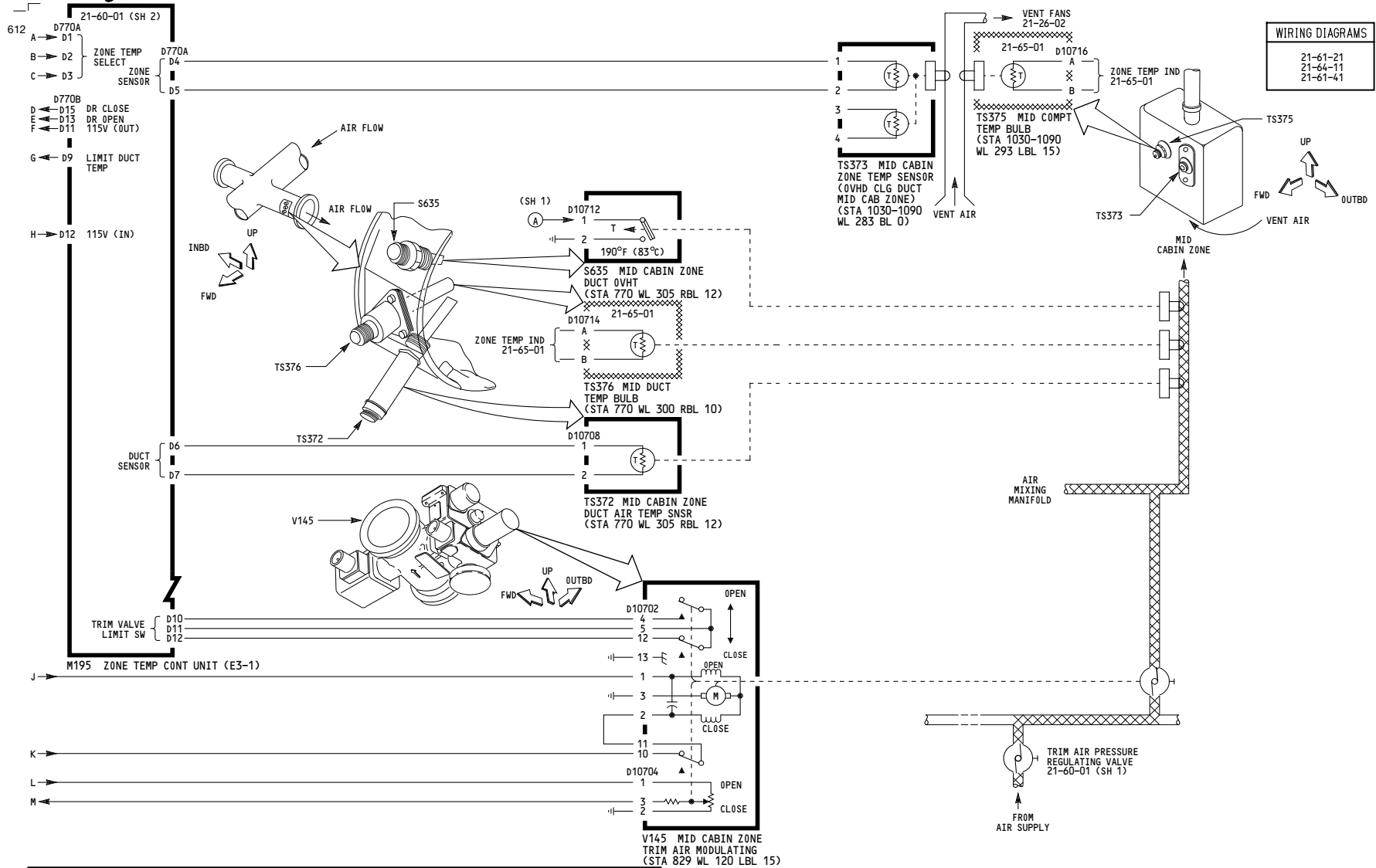
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TEMPERATURE CONTROL AND VALVE POSITION INDICATION MID ZONE

D280T232

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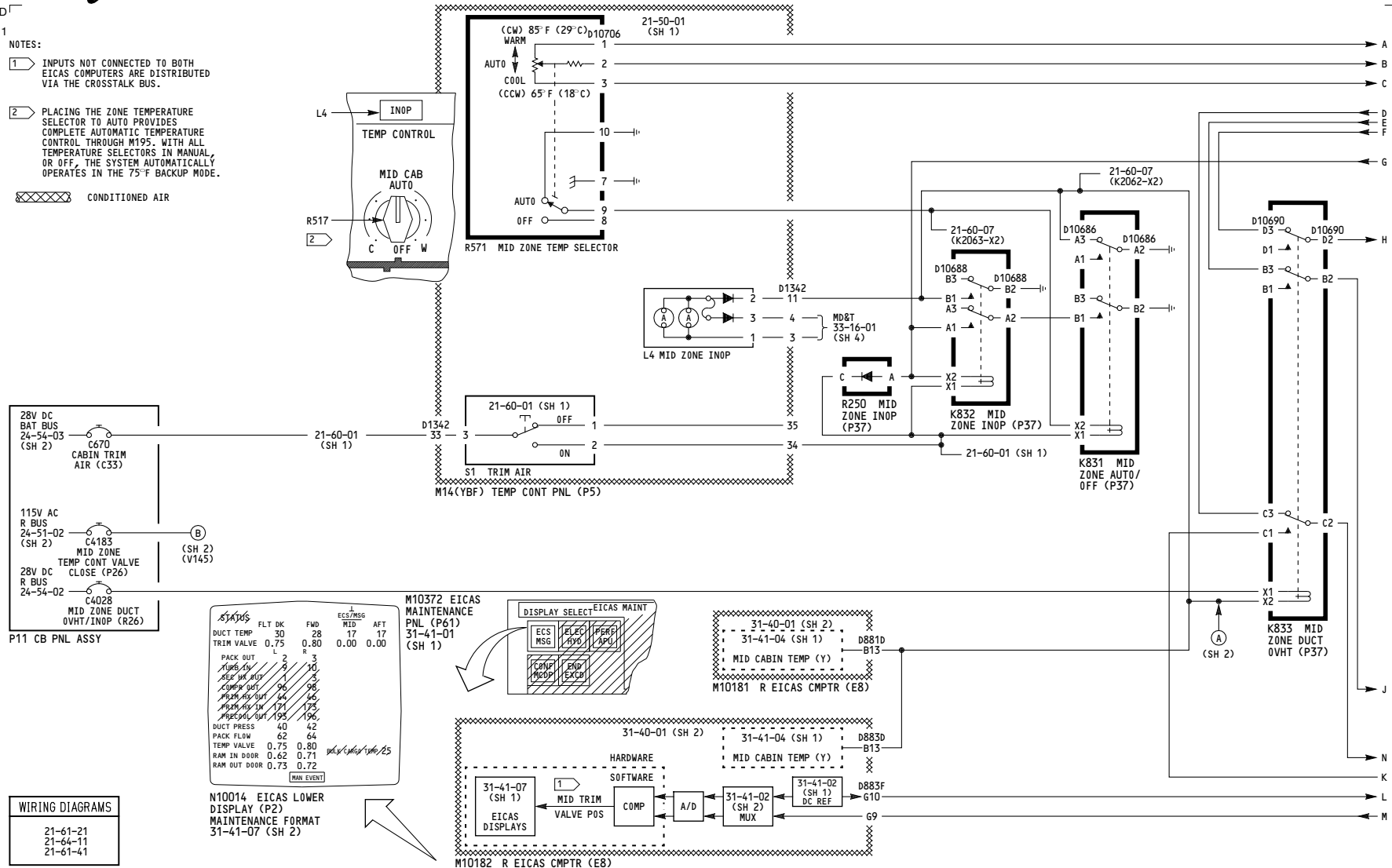
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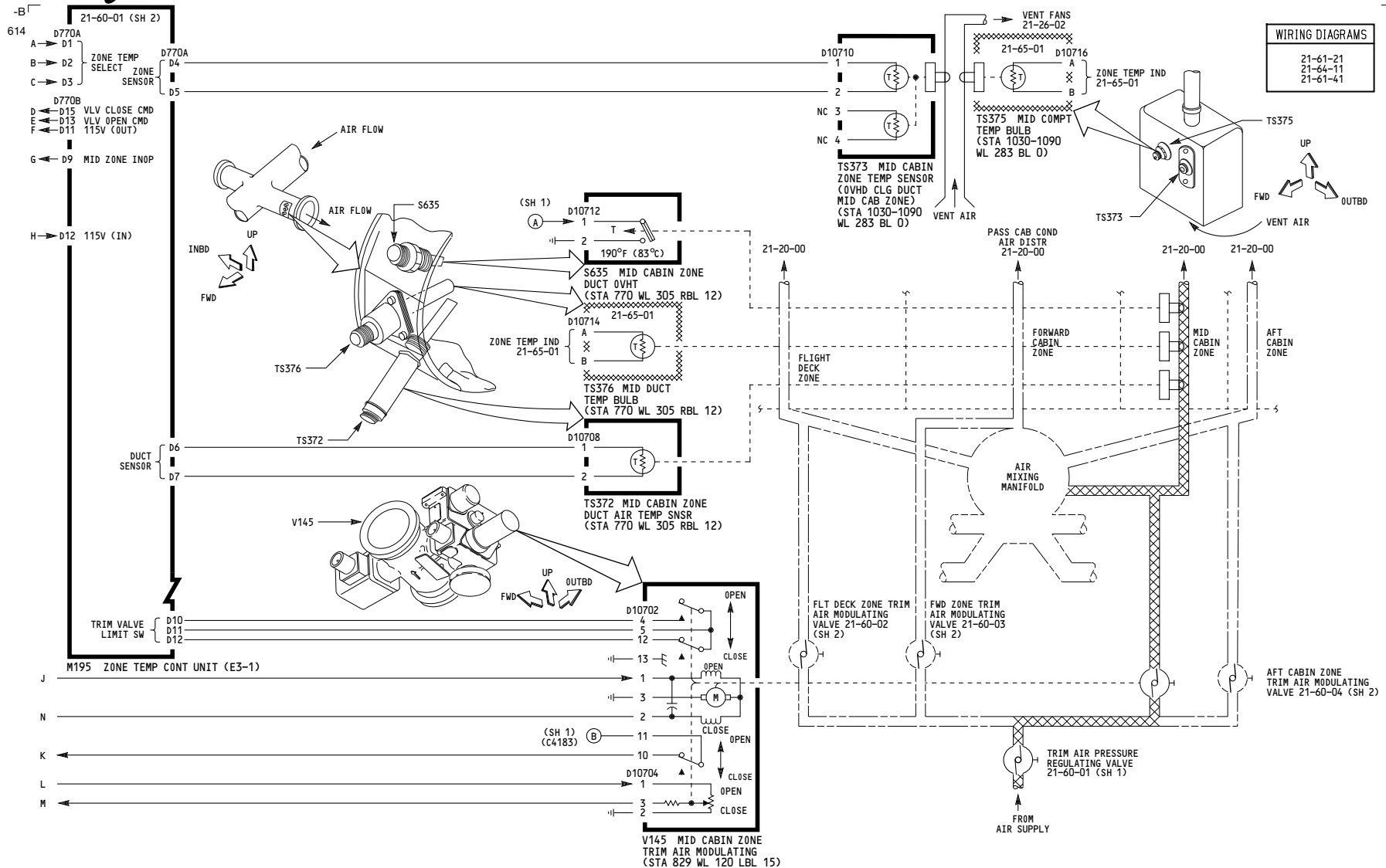
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CONDITIONED AIR



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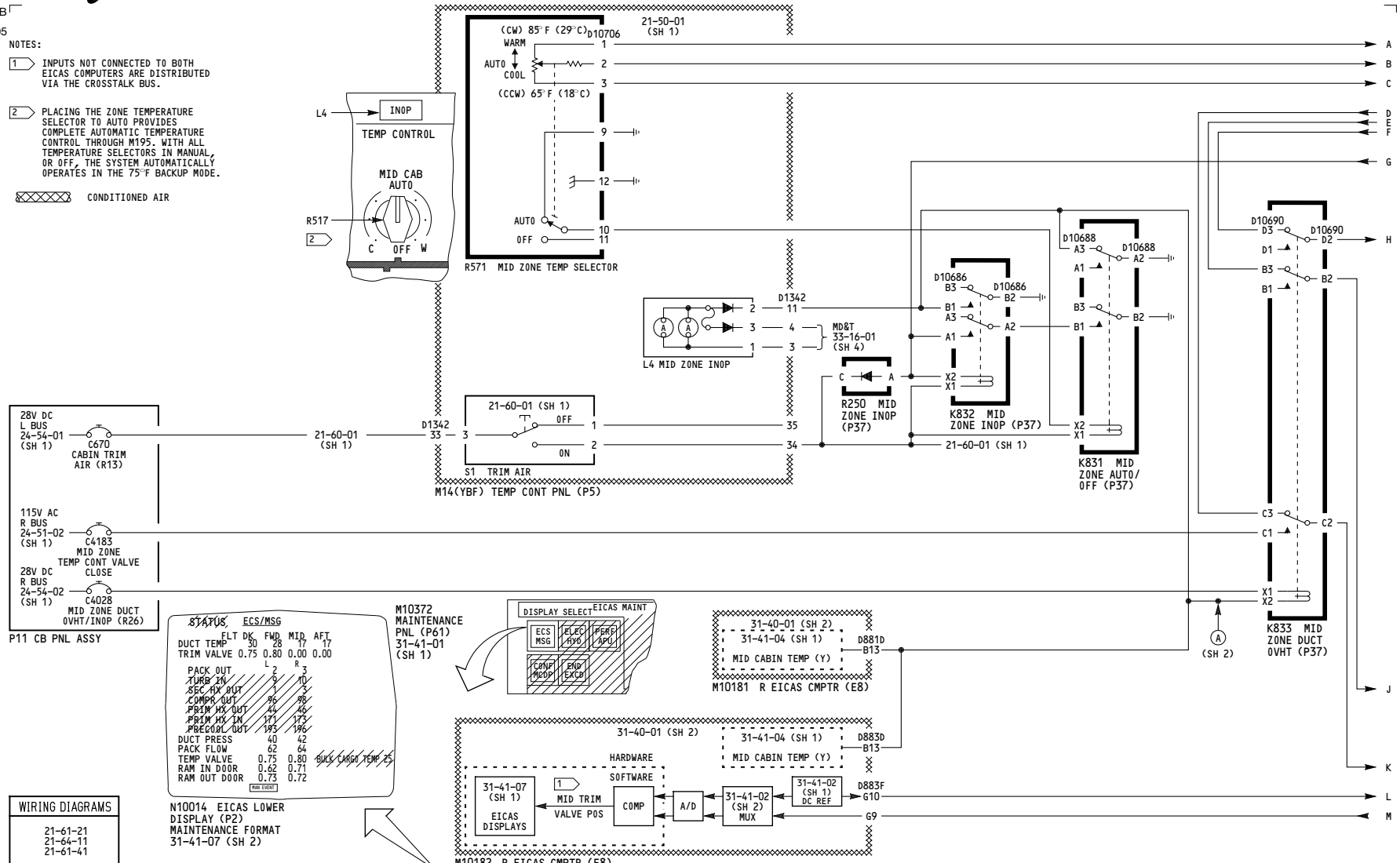
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NOTES:

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CONDITIONED AIR

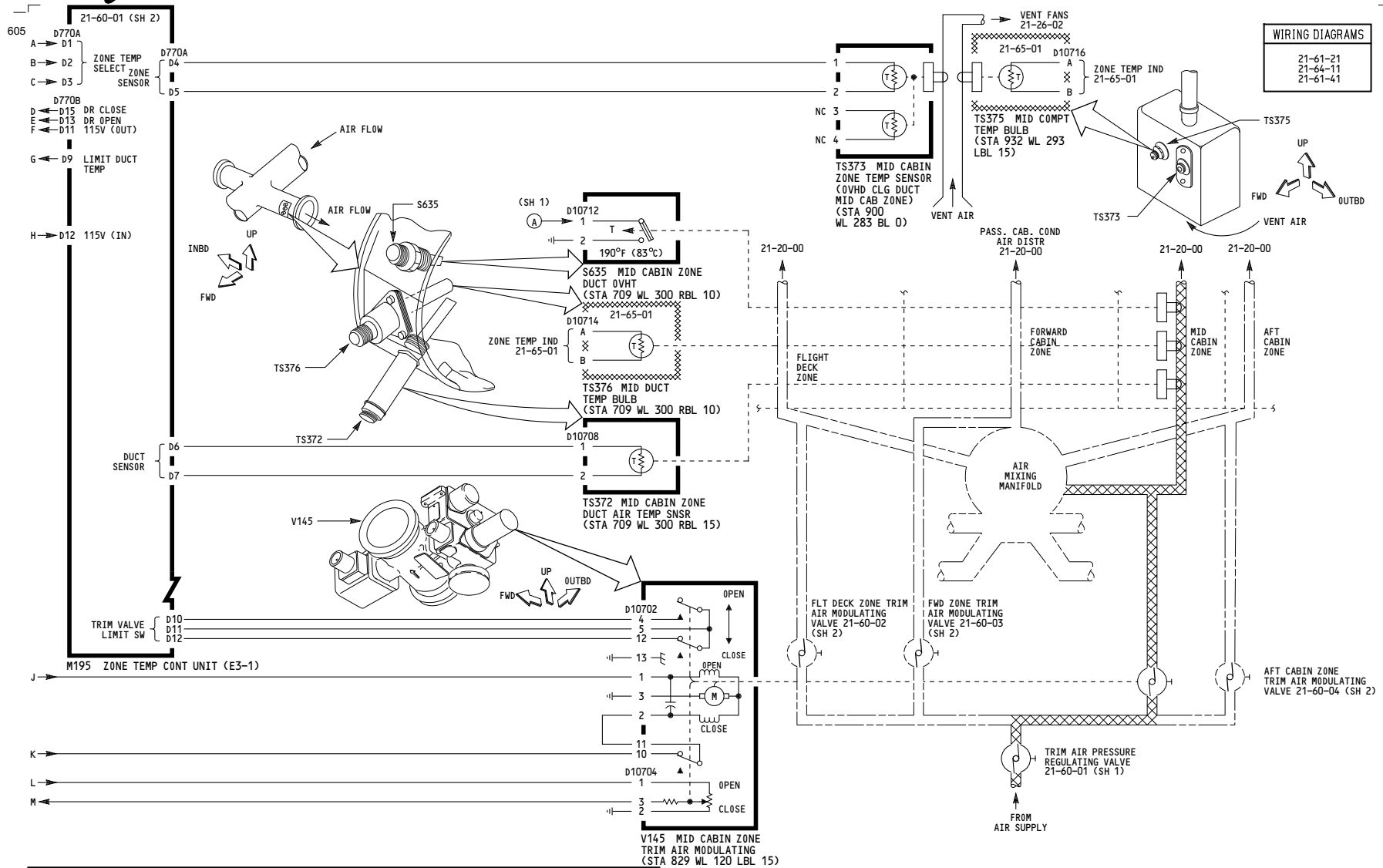


TEMPERATURE CONTROL AND VALVE POSITION INDICATION MID ZONE

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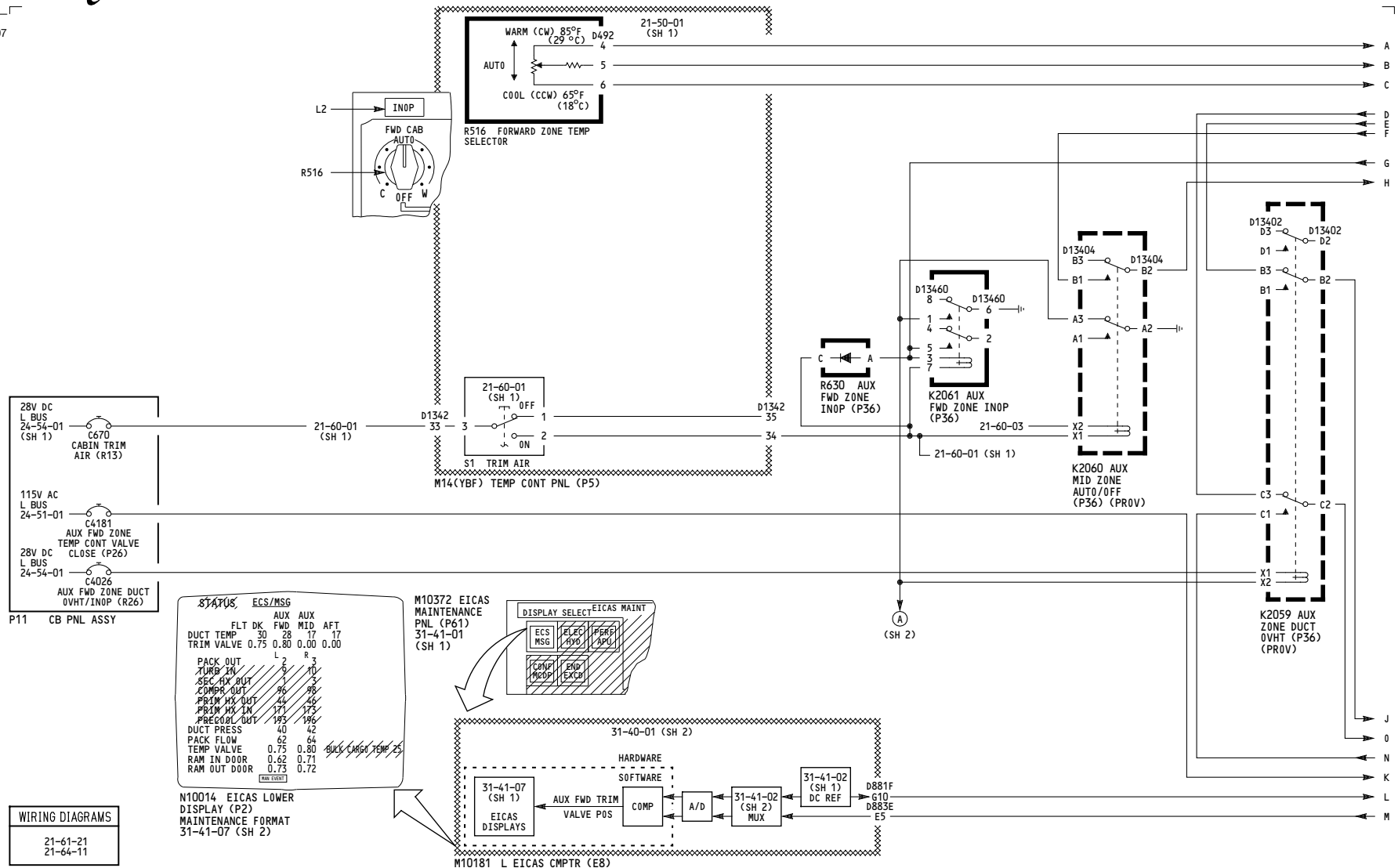
TEMPERATURE CONTROL AND VALVE POSITION INDICATION MID ZONE

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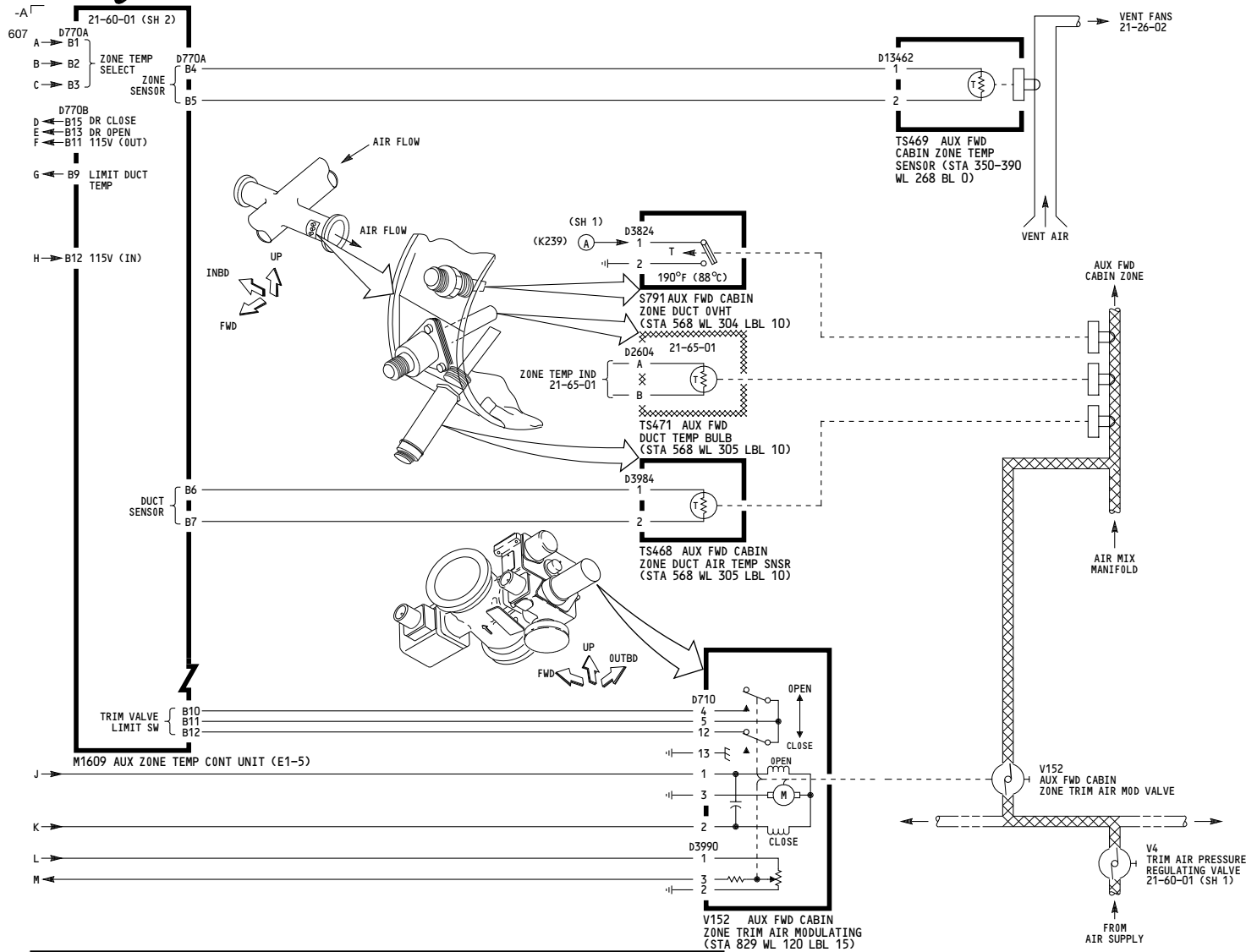
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AUX FORWARD ZONE

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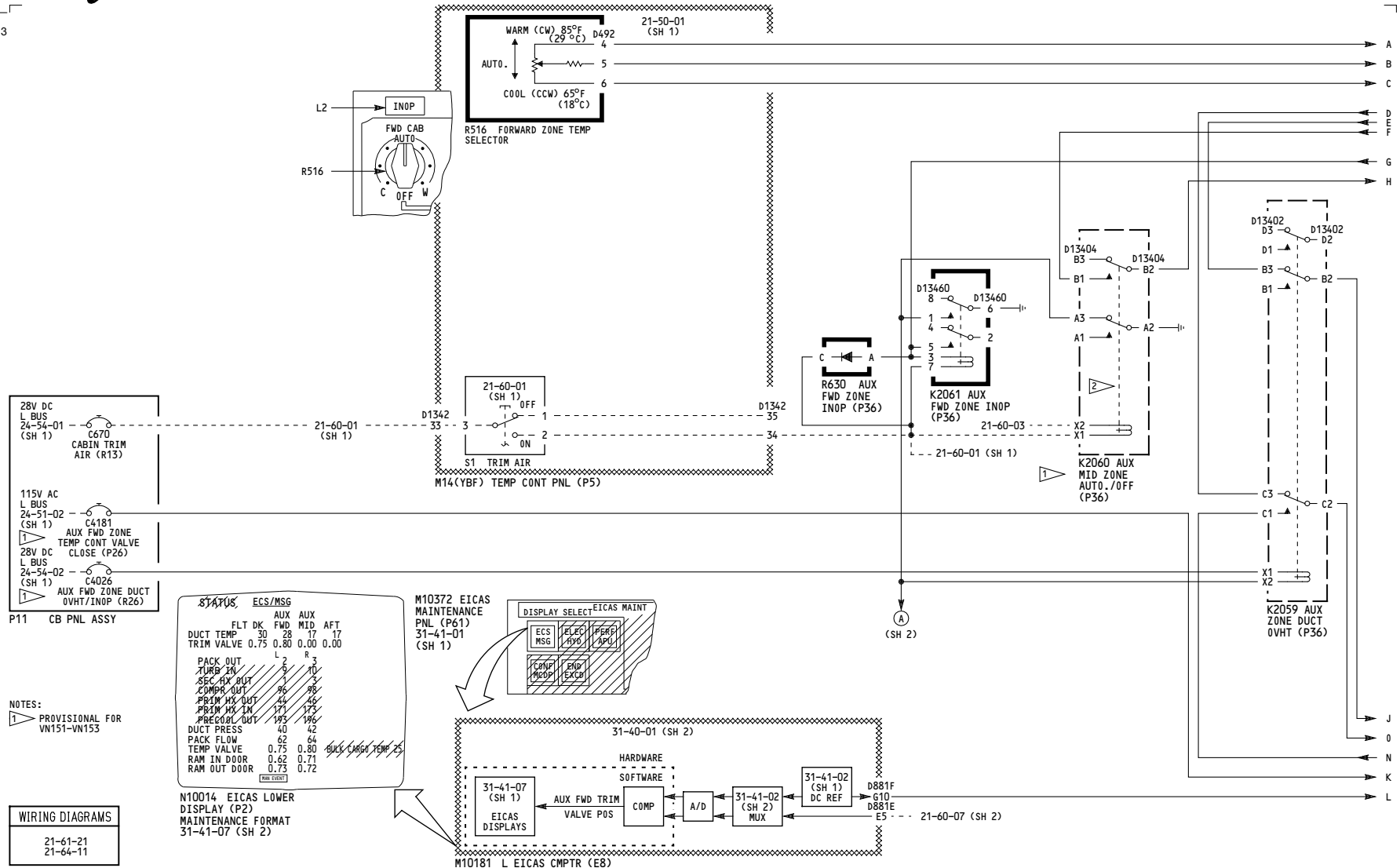
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VALVE POSITION INDICATION
AUX FORWARD ZONE**

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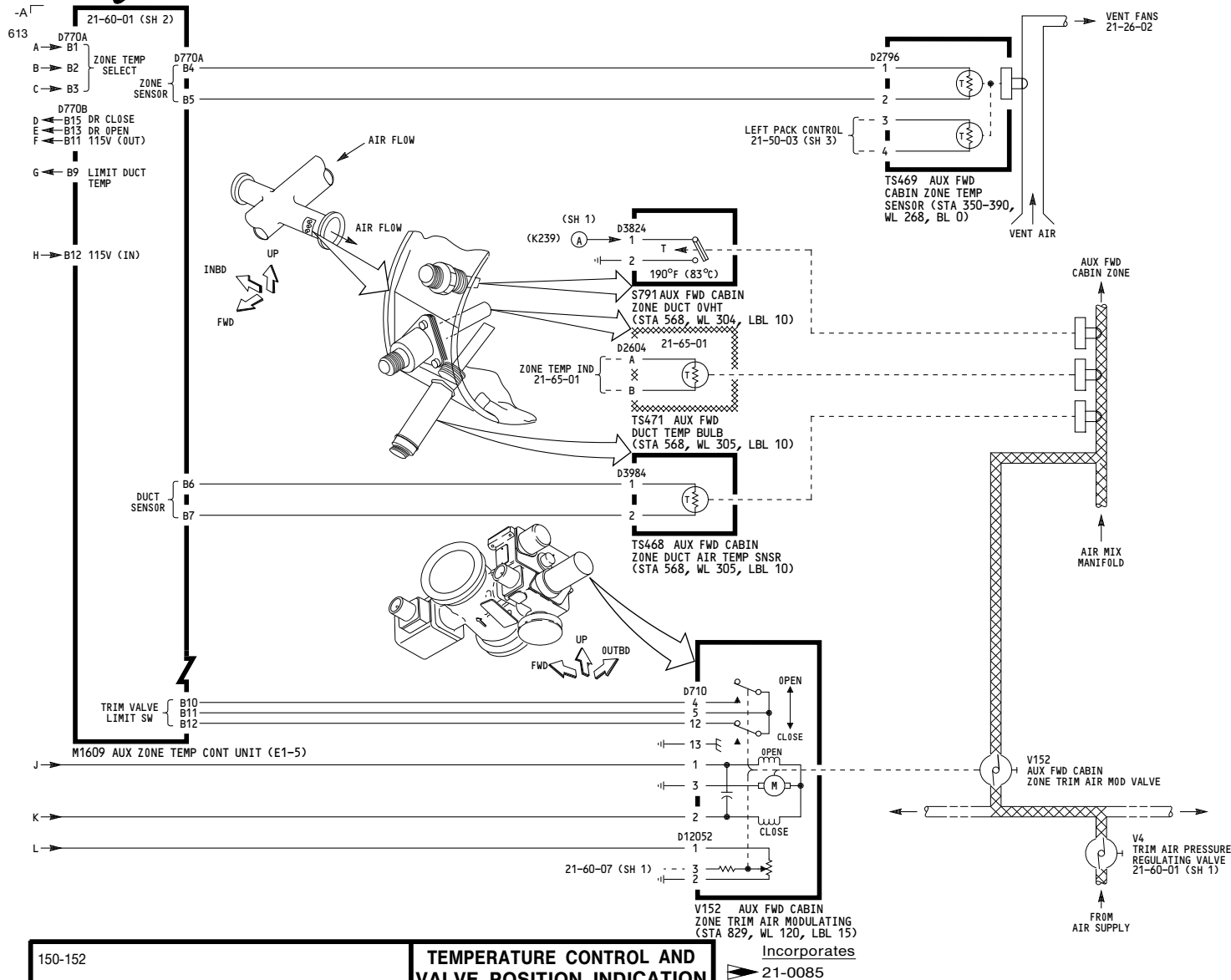
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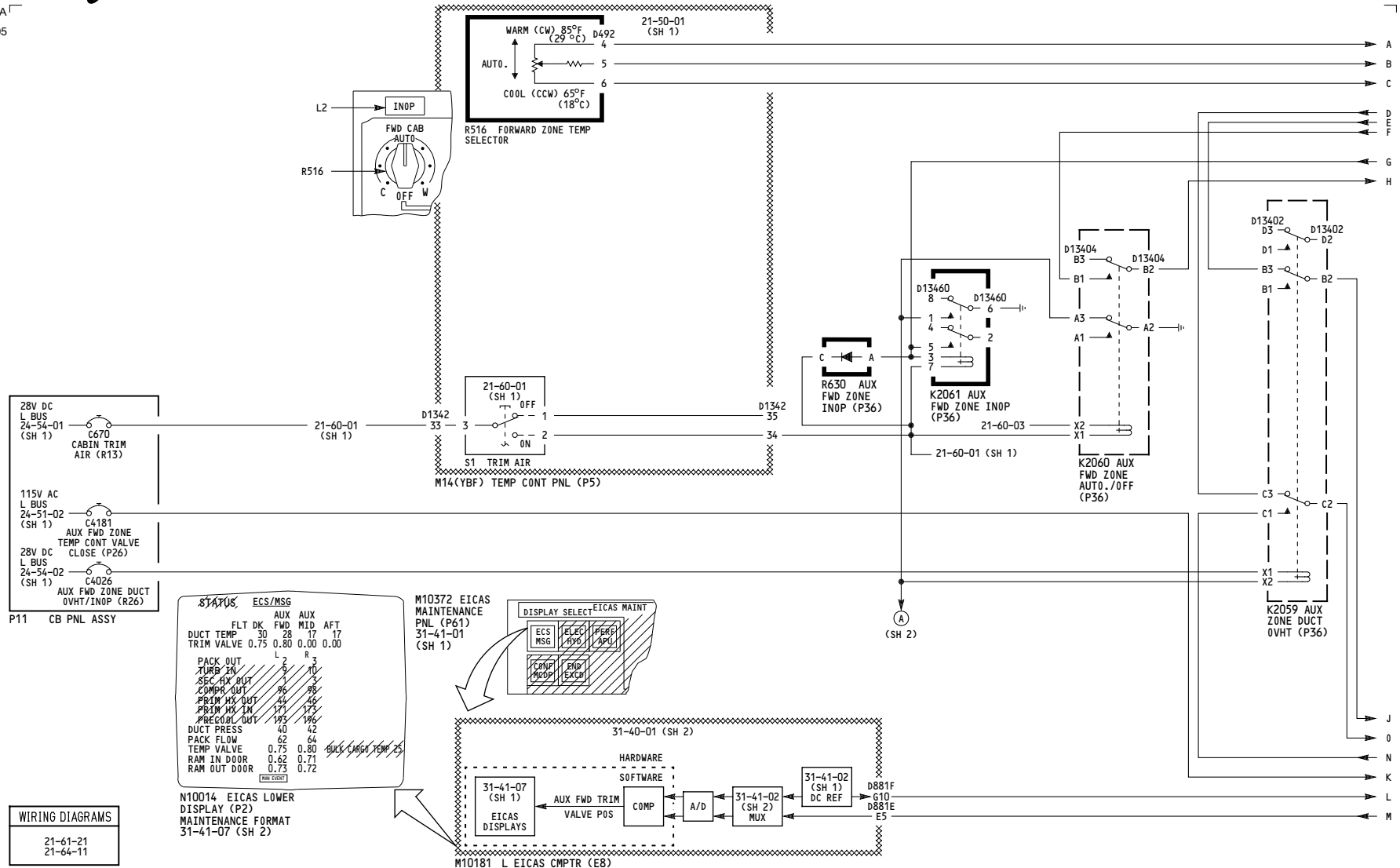
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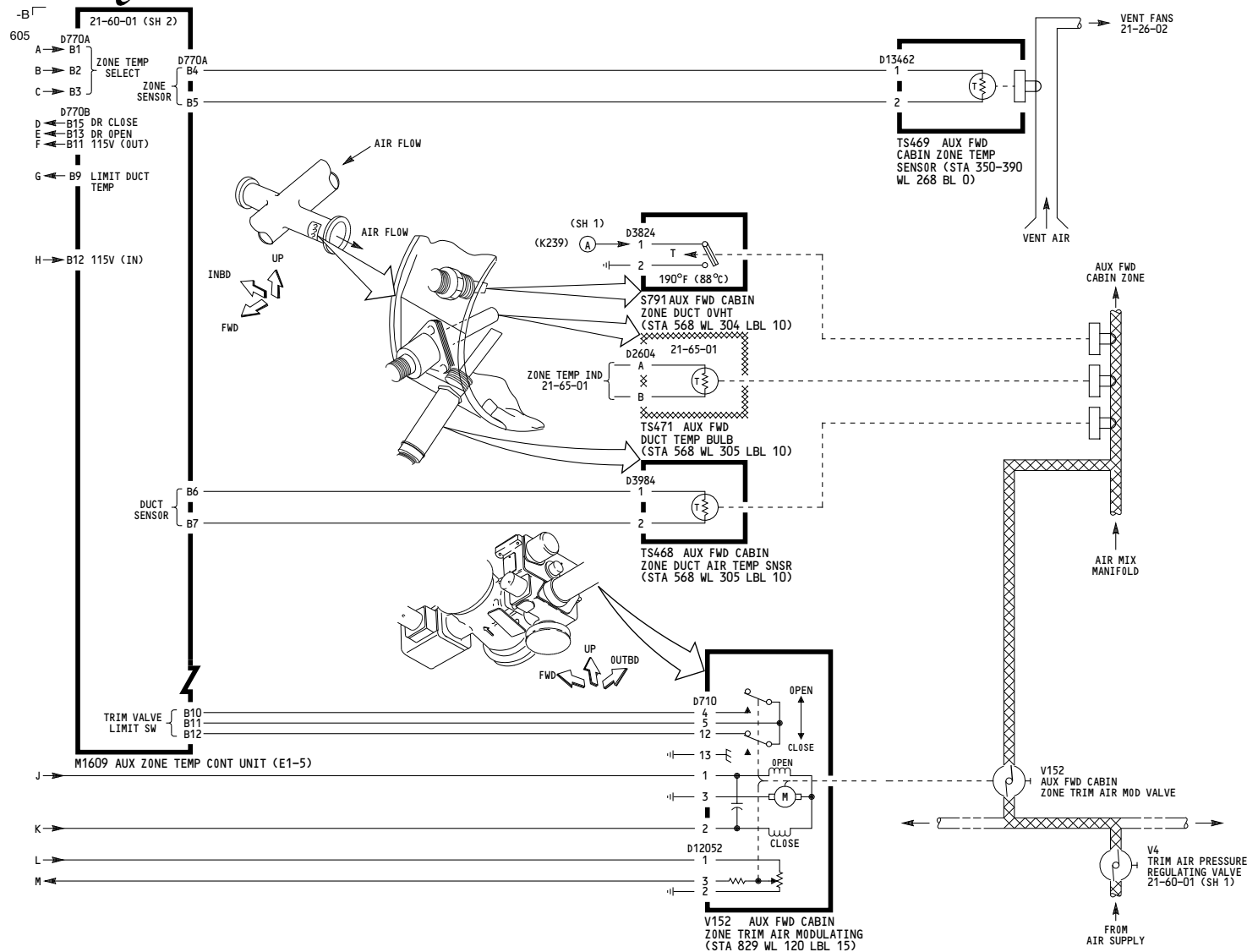
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TEMPERATURE CONTROL AND
VALVE POSITION INDICATION
AUX FORWARD ZONE

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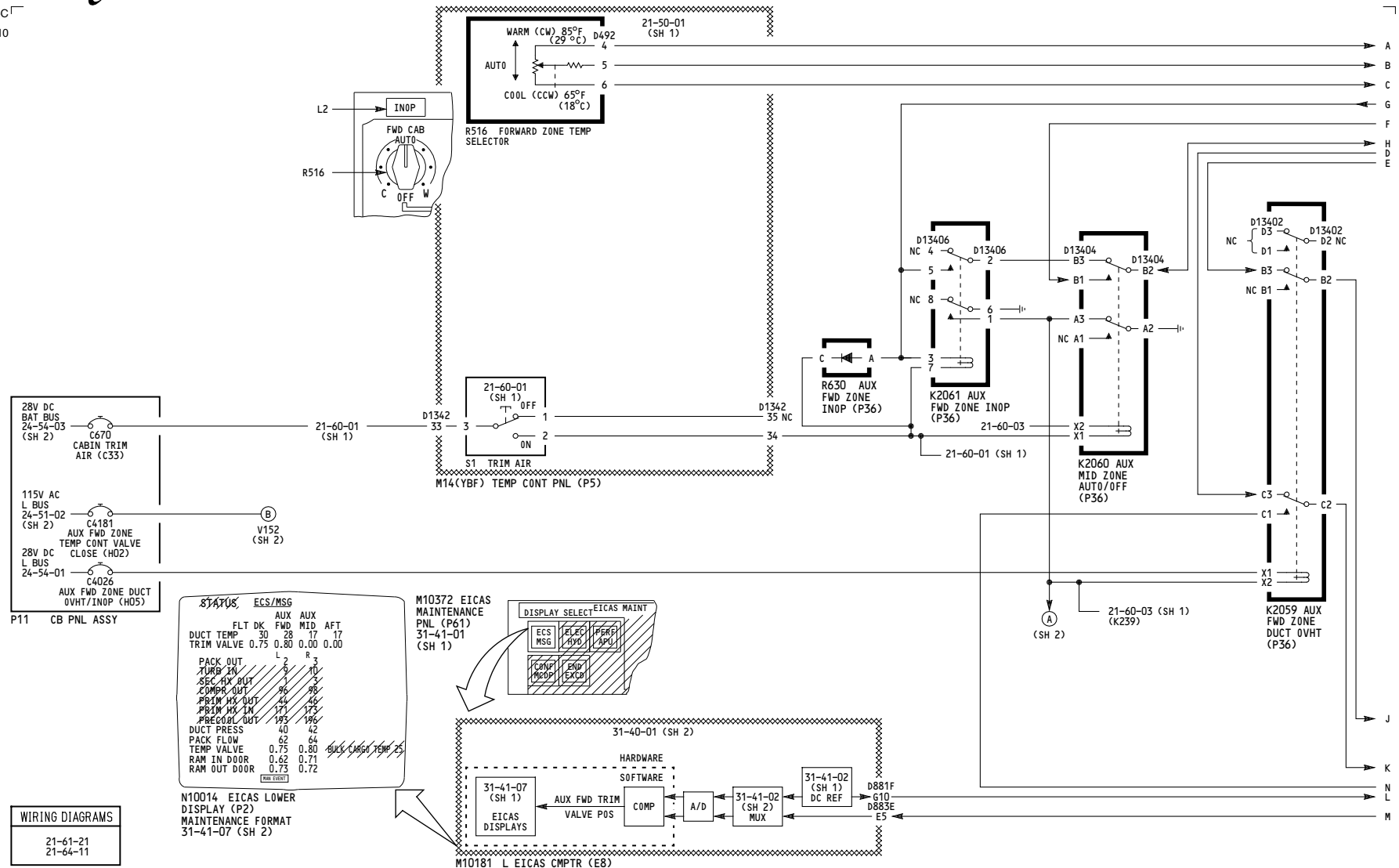
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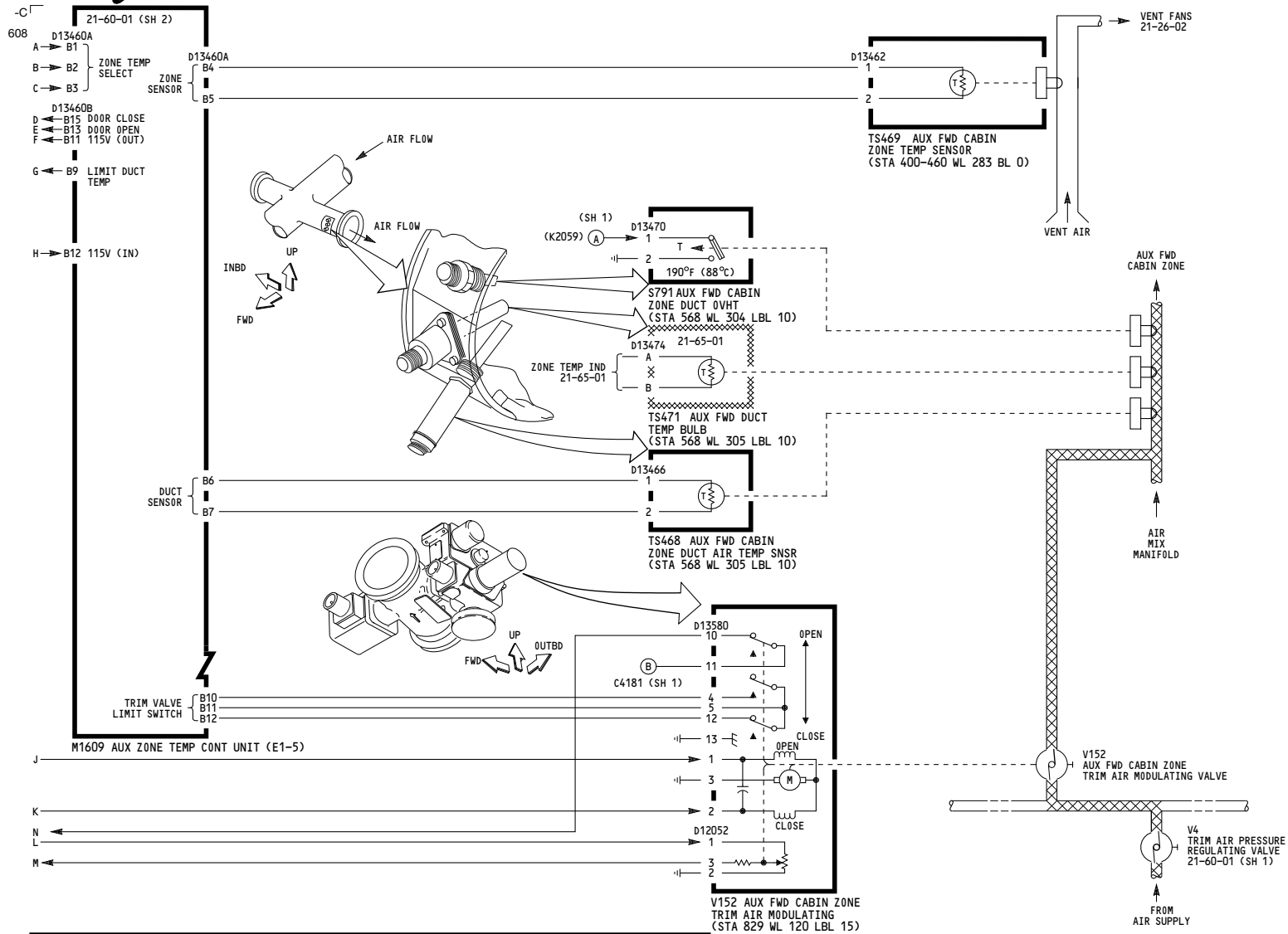
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VALVE POSITION INDICATION
AUX FORWARD ZONE

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**TEMPERATURE CONTROL AND
VALVE POSITION INDICATION
AUX FORWARD ZONE**

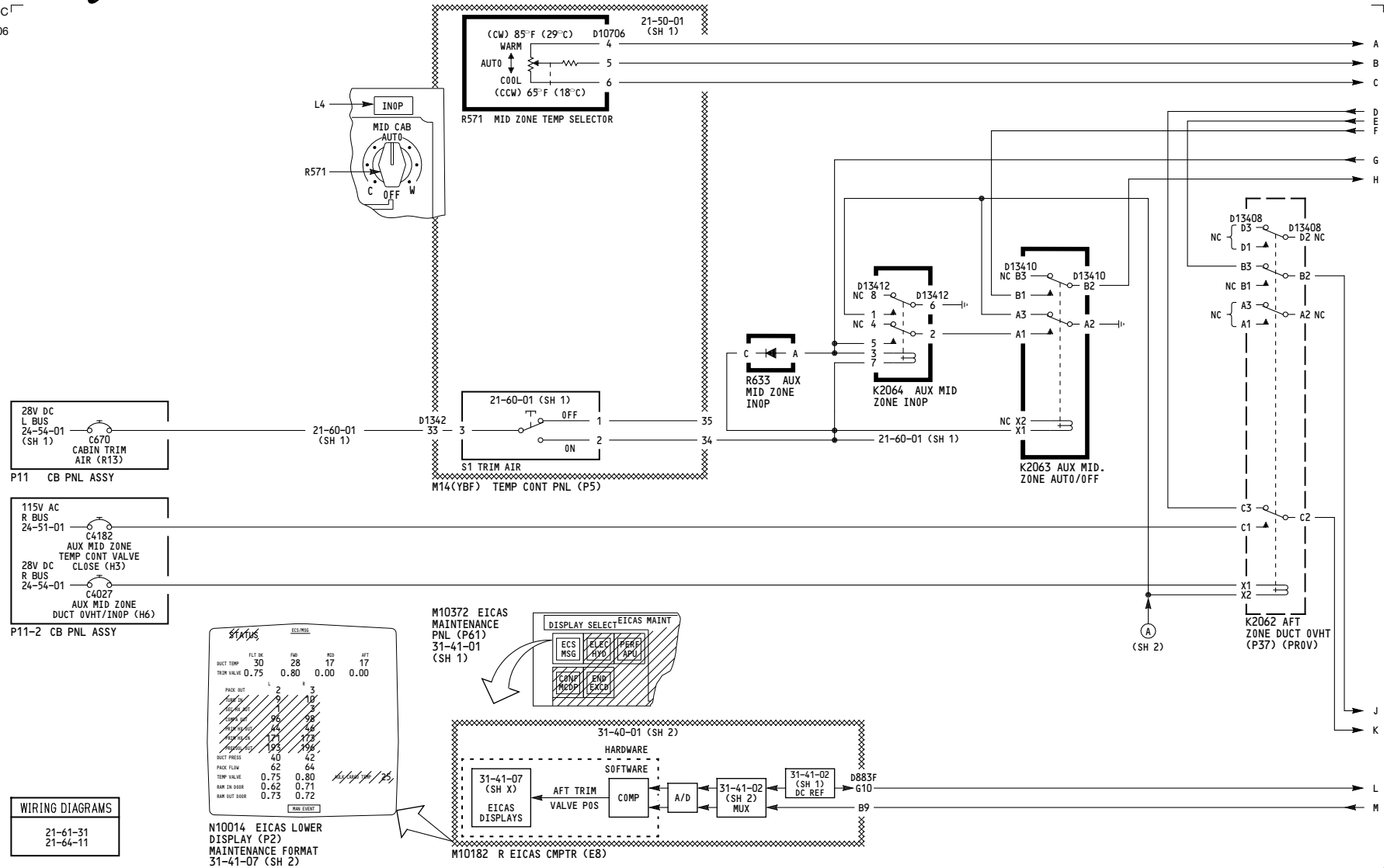
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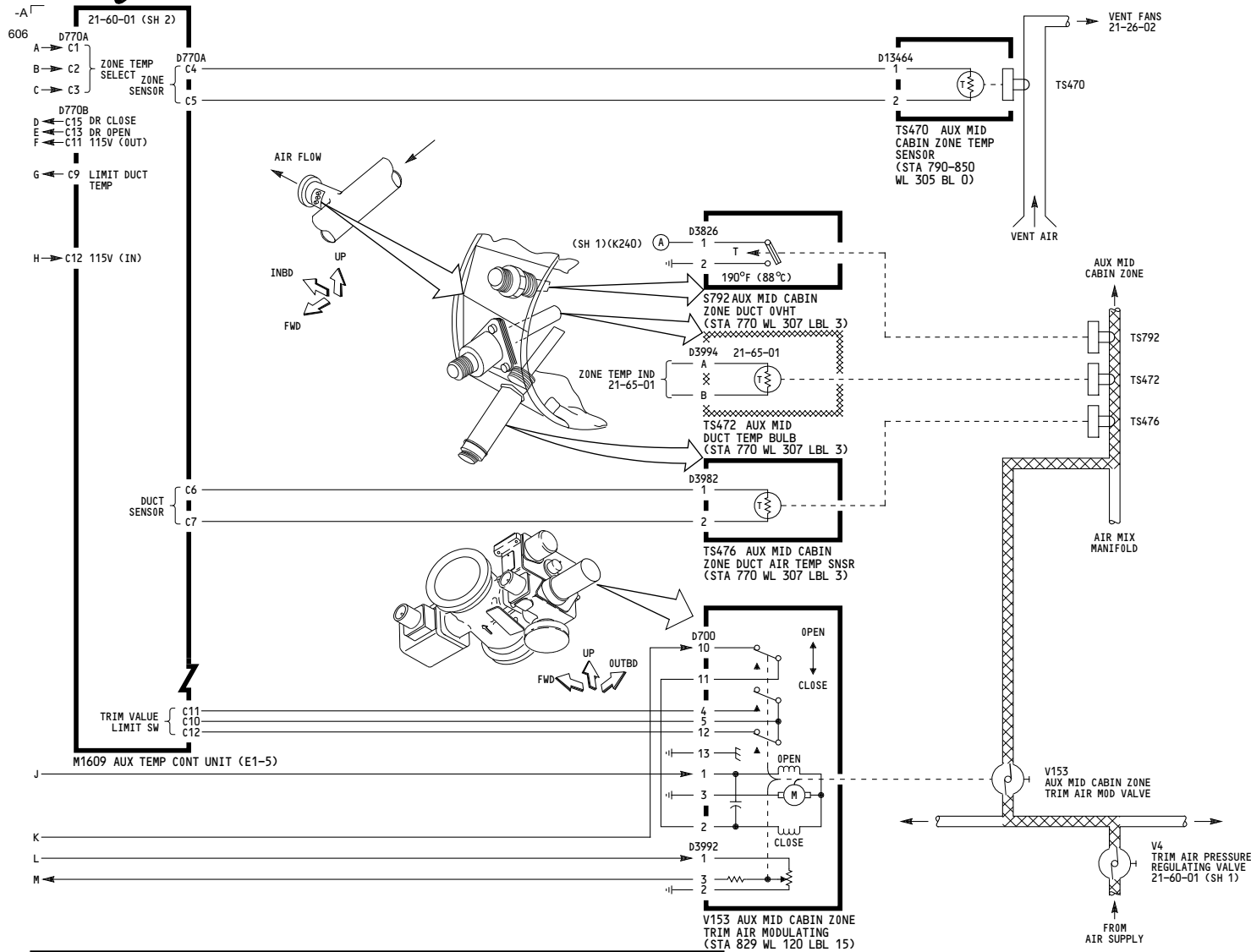
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AUX MID ZONE**

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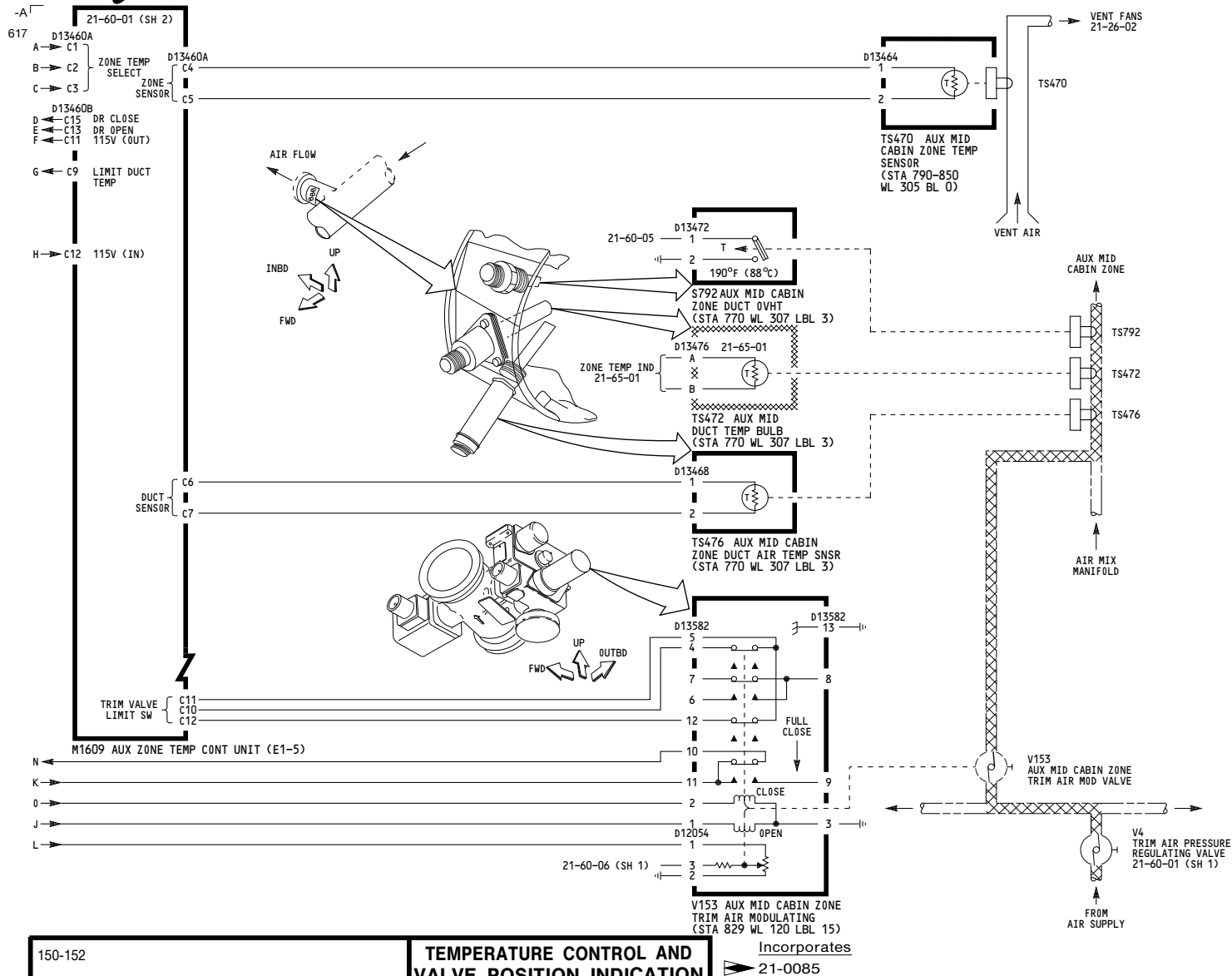
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**TEMPERATURE CONTROL AND
VALVE POSITION INDICATION
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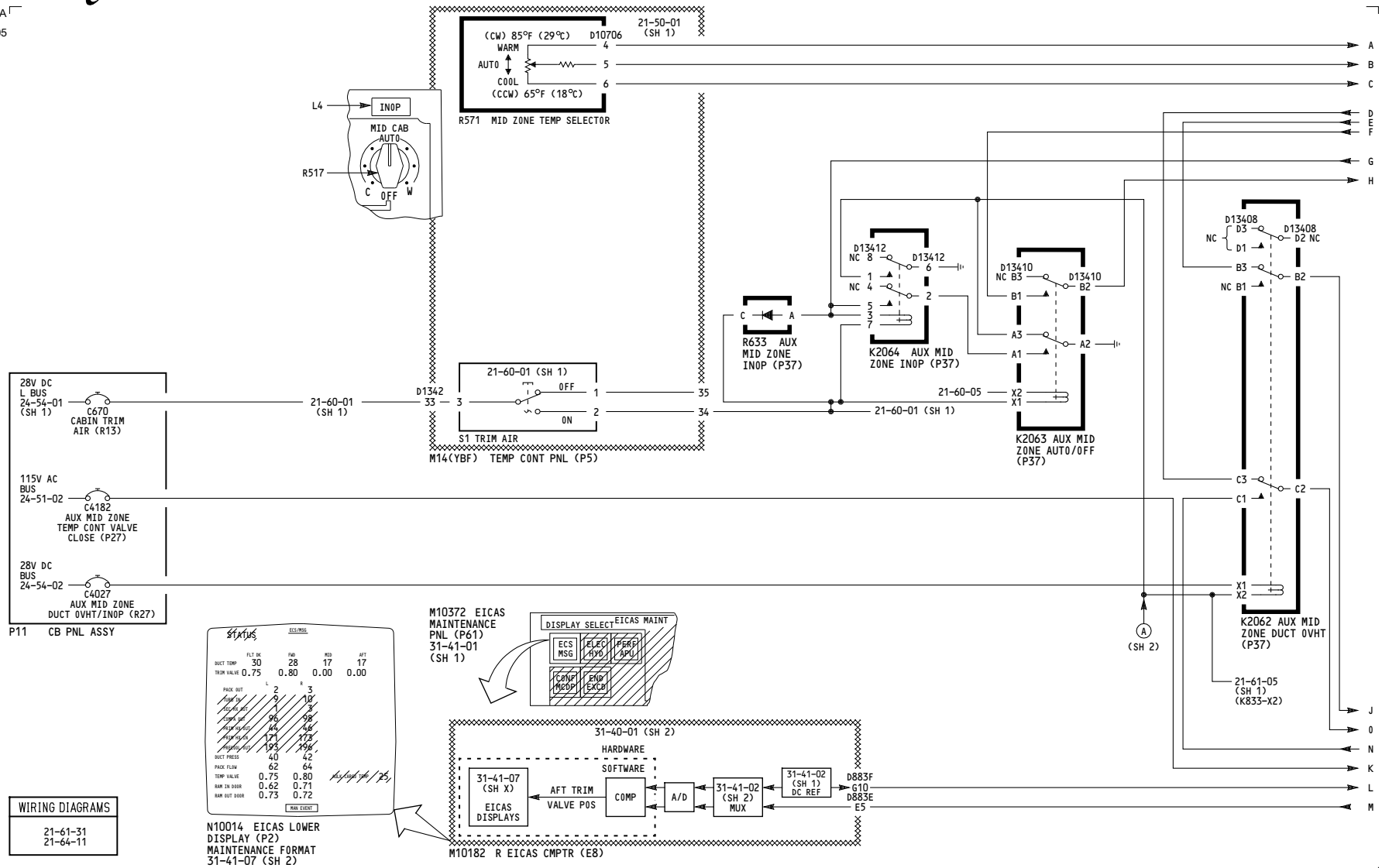
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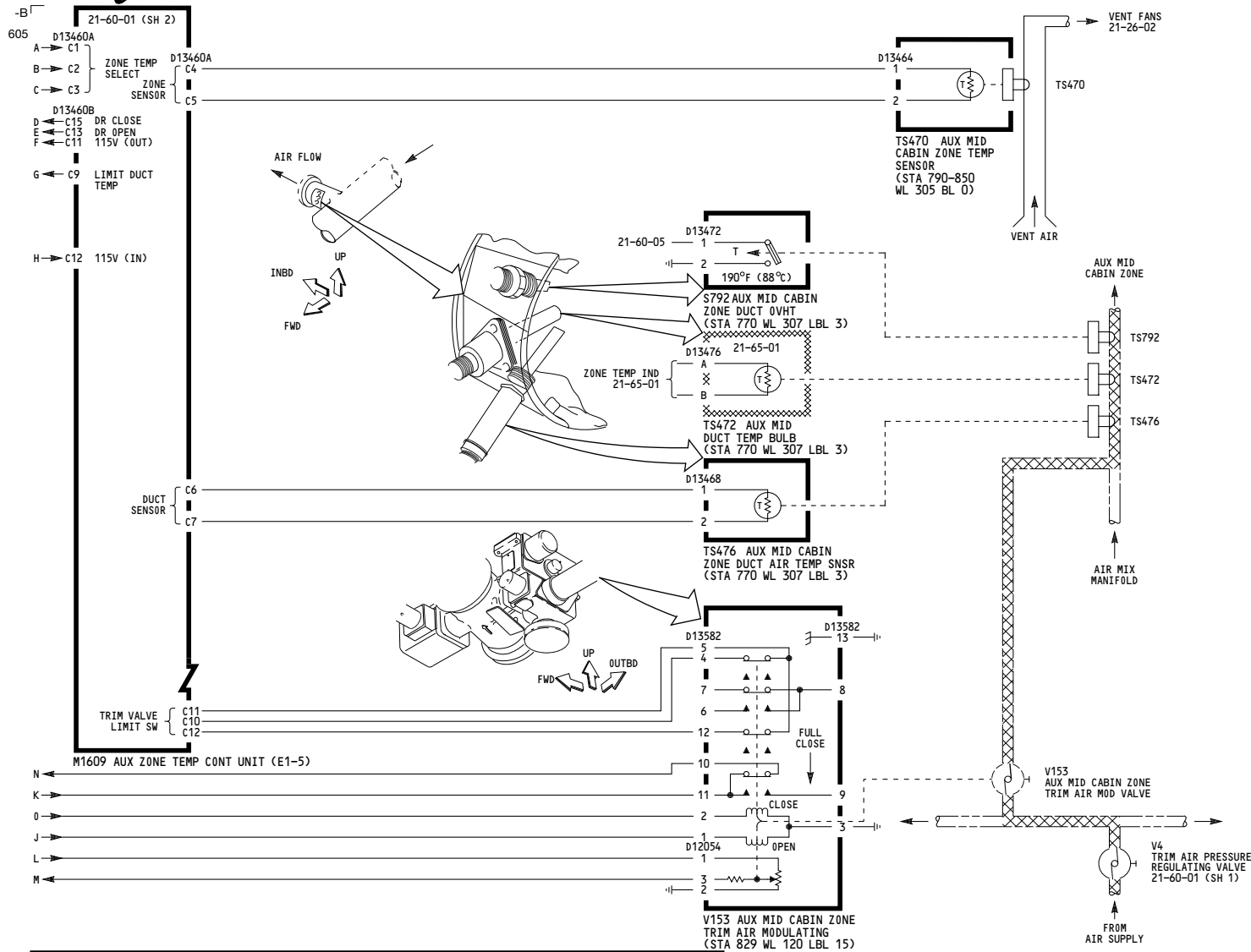


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VALVE POSITION INDICATION
AUX MID ZONE**

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TEMPERATURE CONTROL AND
VALVE POSITION INDICATION
AUX MID ZONE

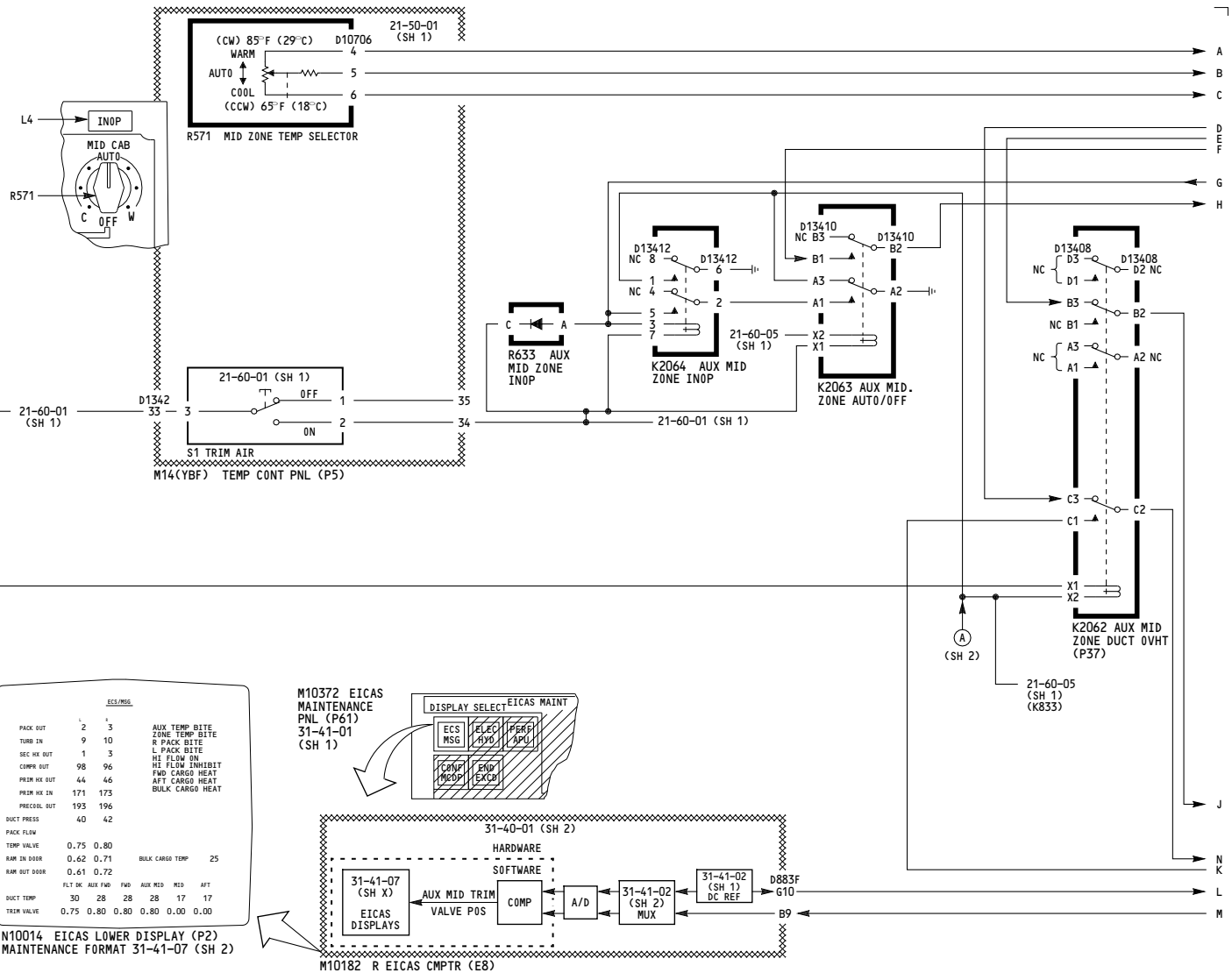
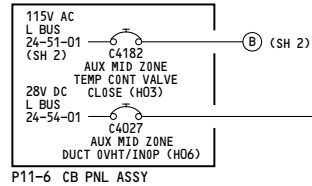
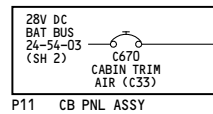
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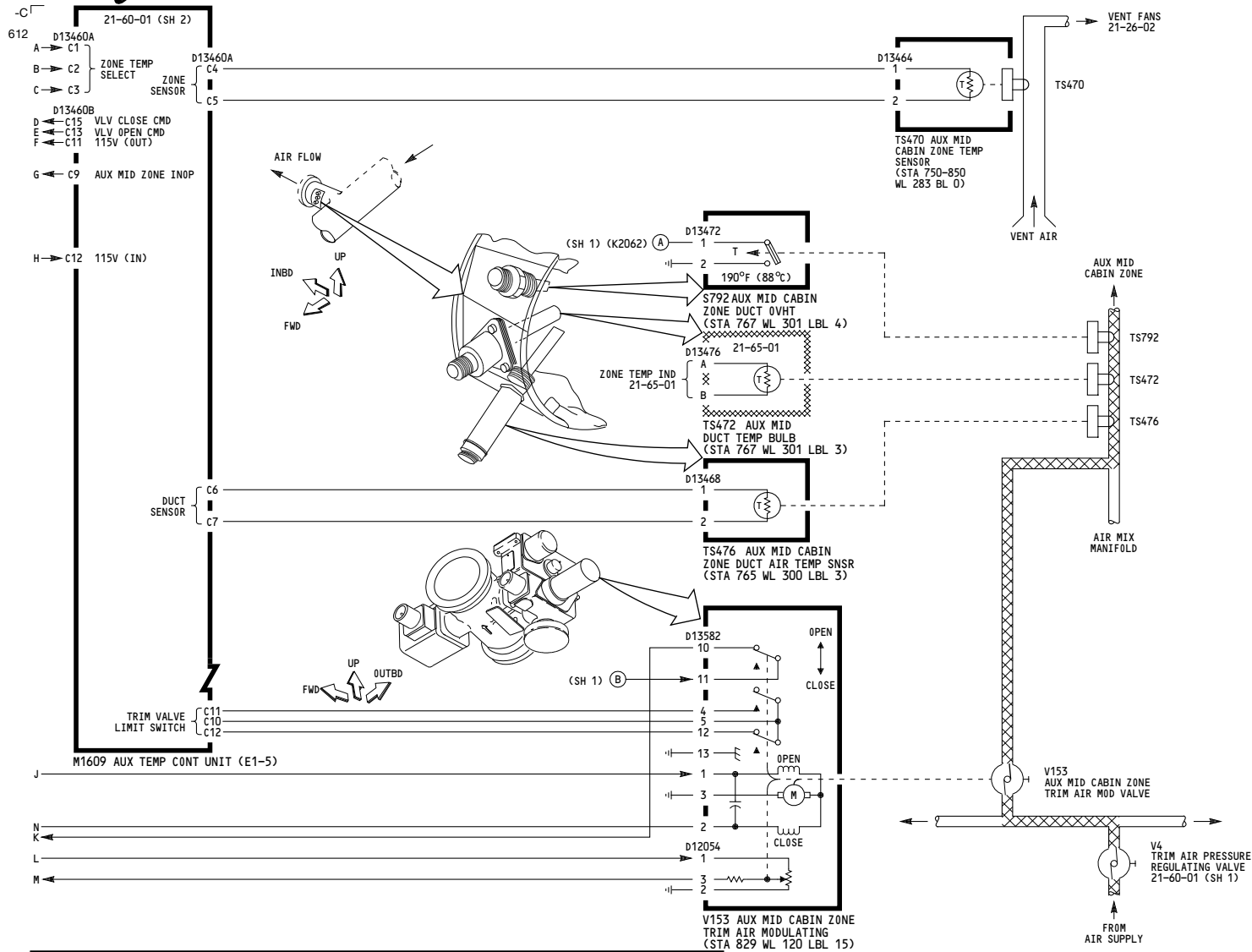
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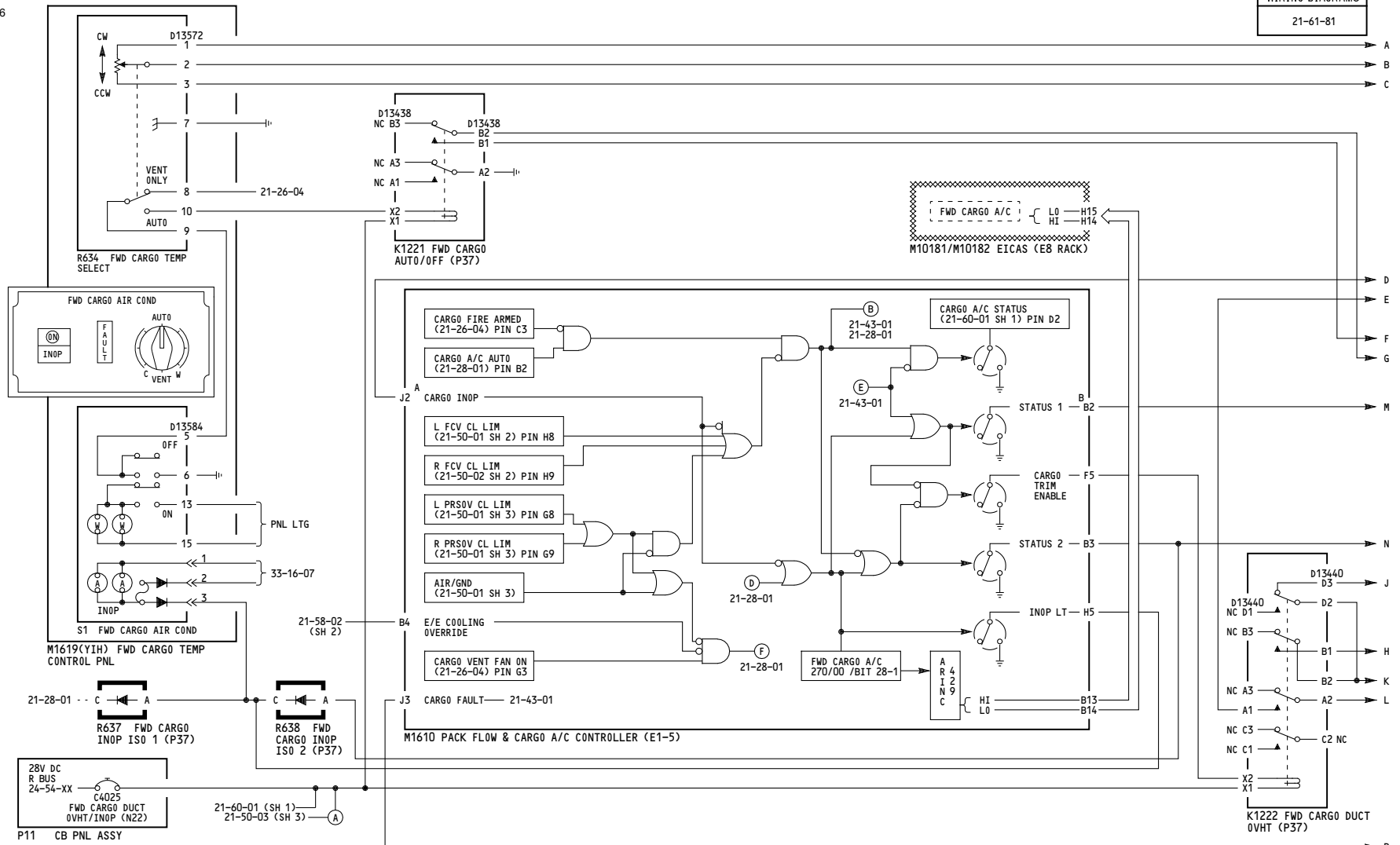
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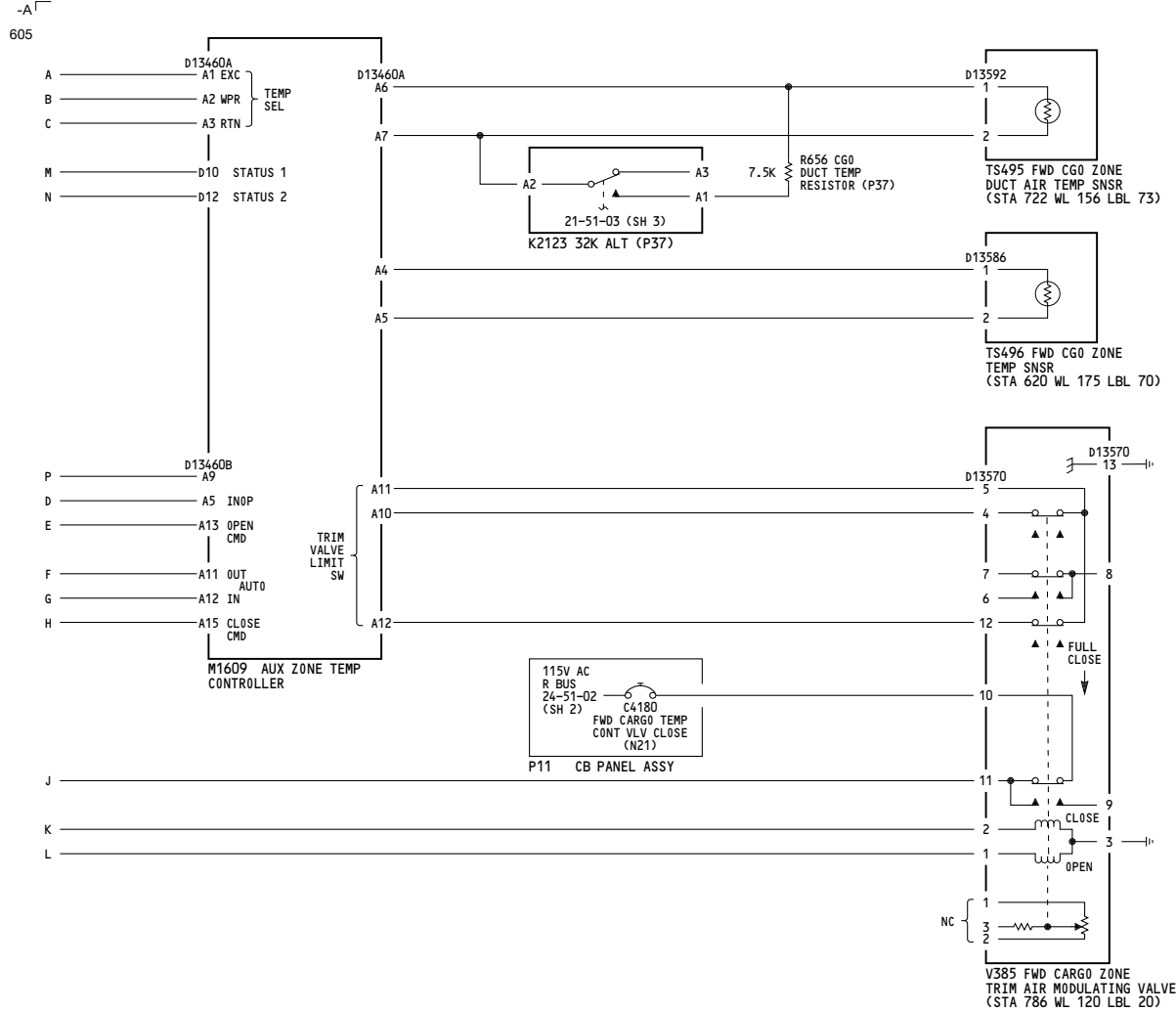
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**TEMPERATURE CONTROL-
LOWER FORWARD CARGO**

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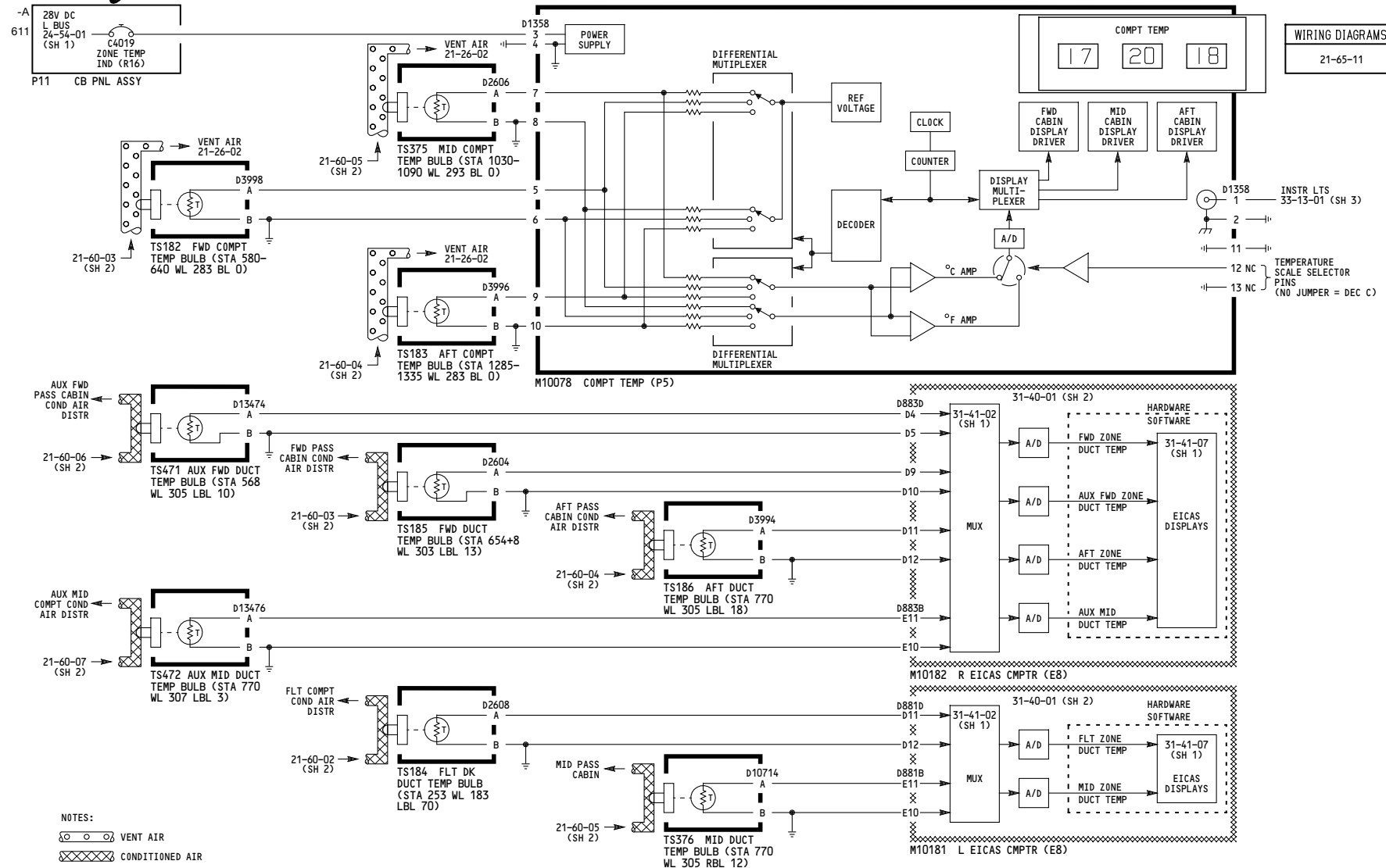
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TEMPERATURE CONTROL-
LOWER FORWARD CARGO

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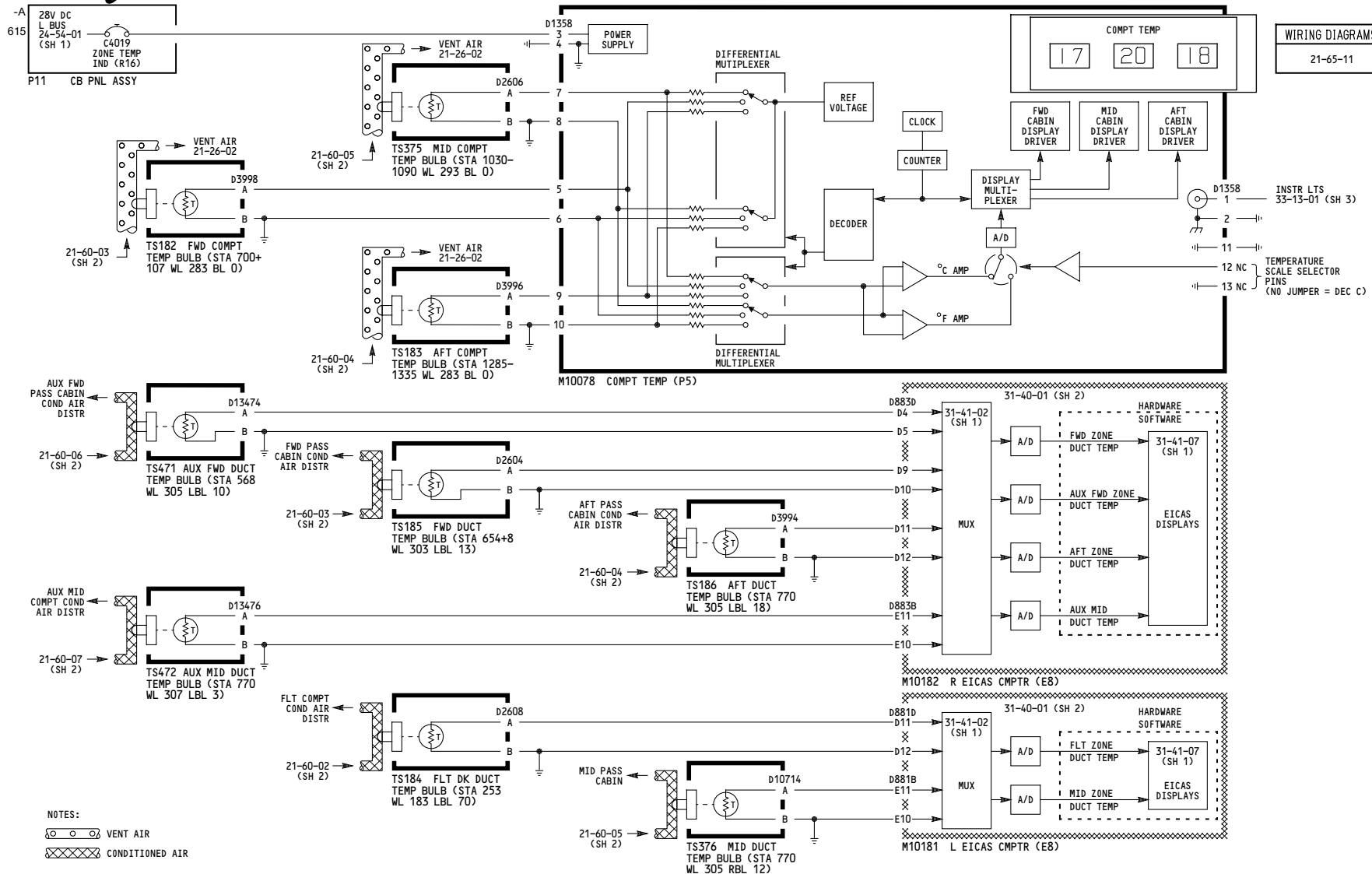
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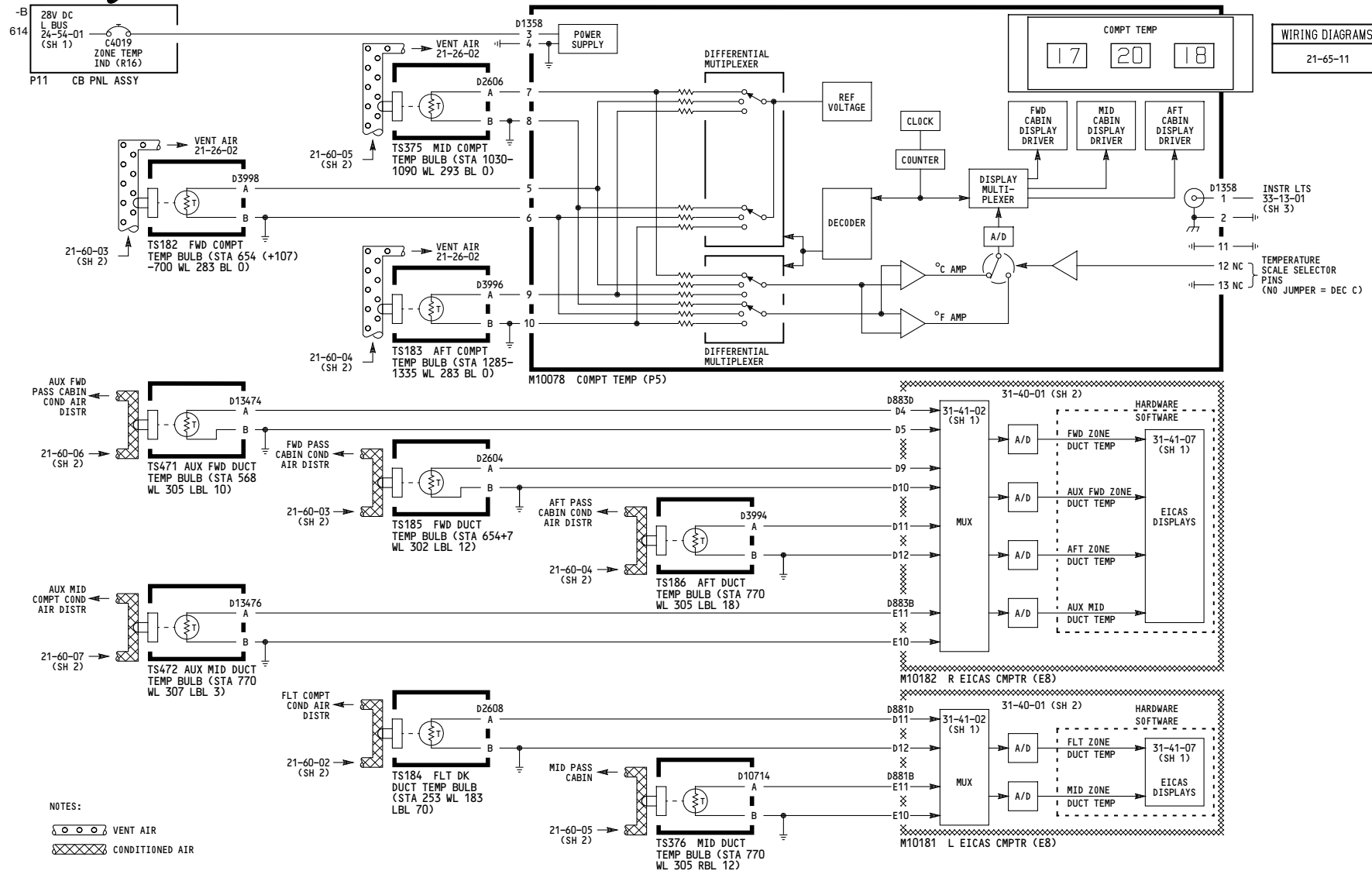
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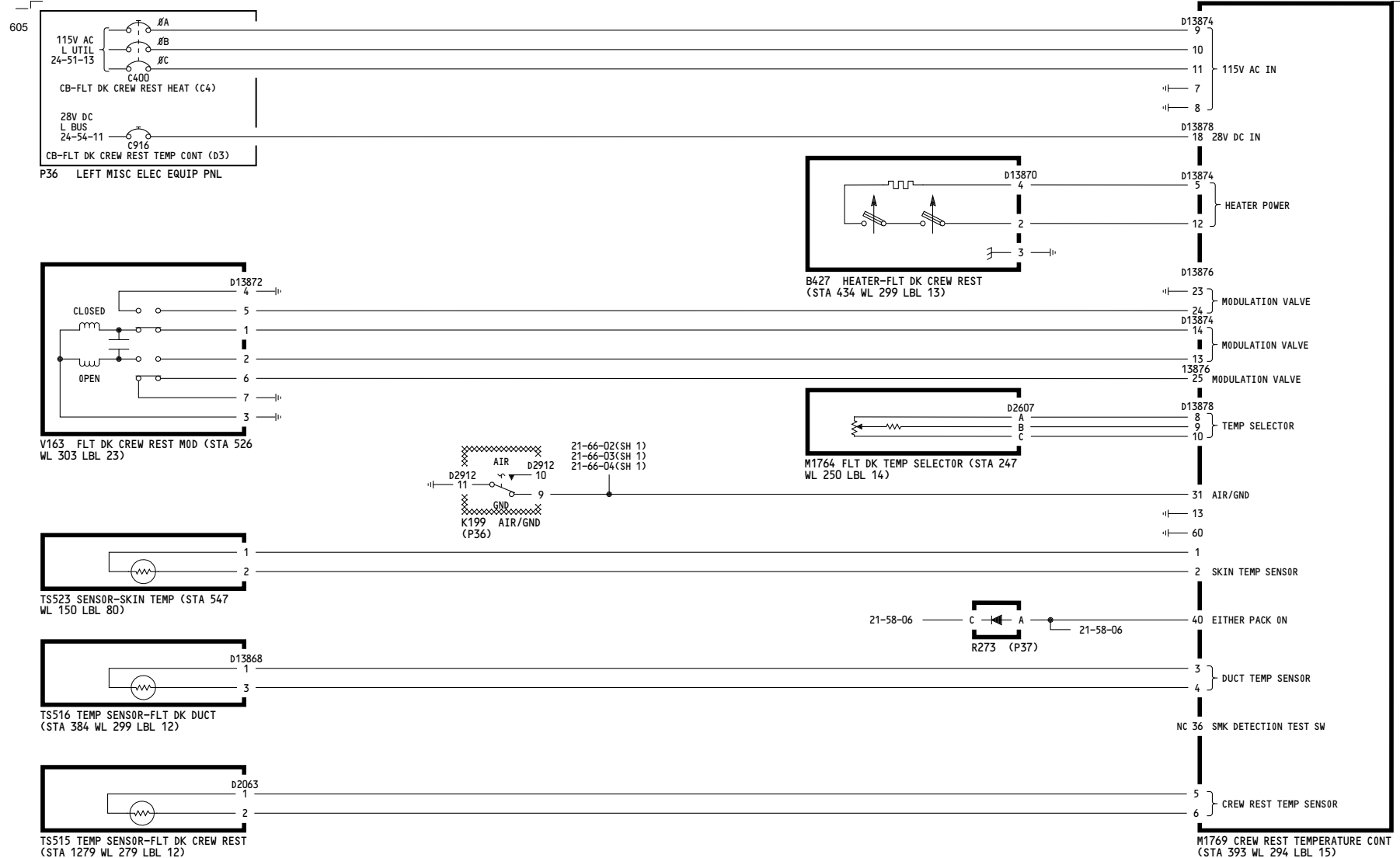
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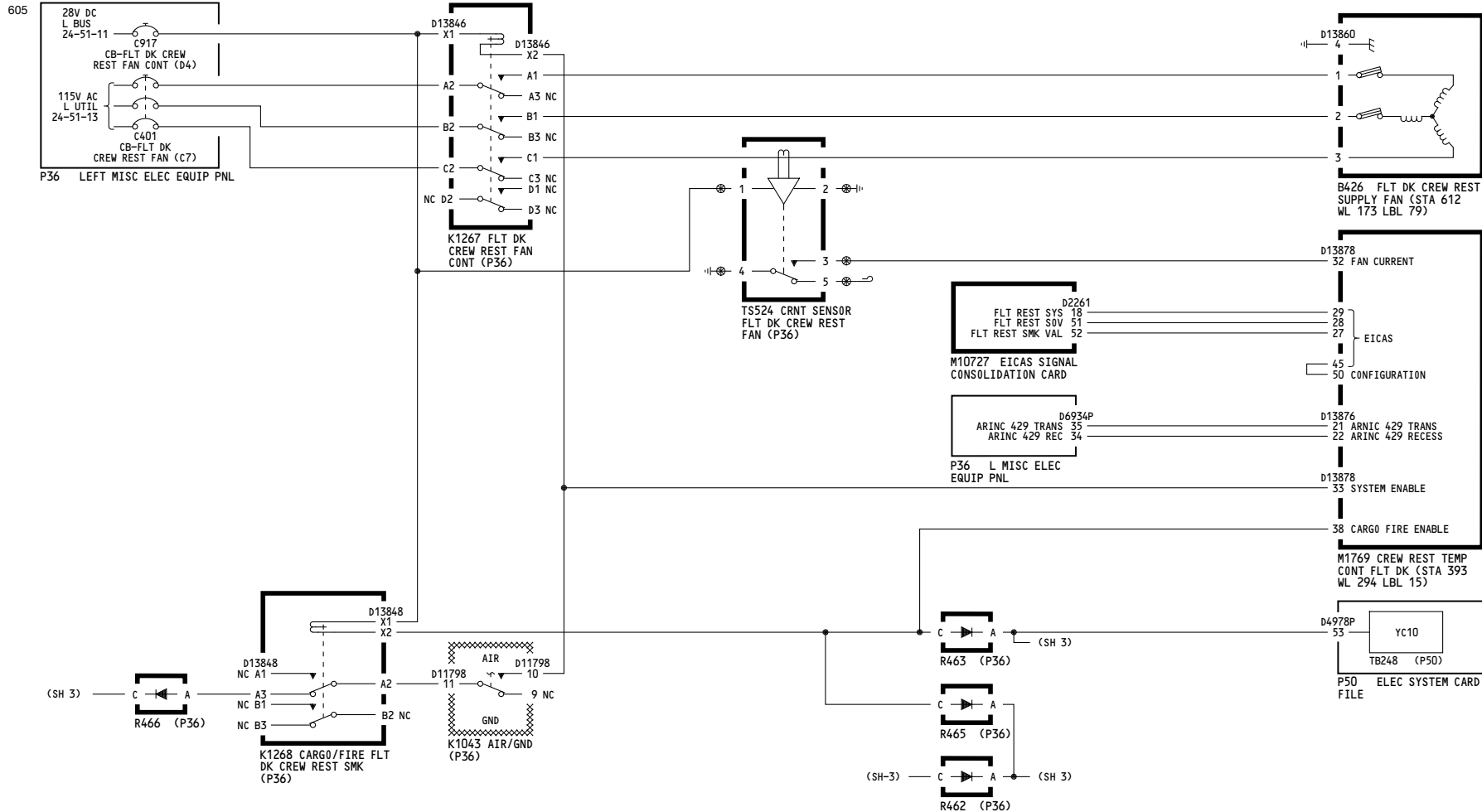
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TEMPERATURE CONTROL CREW REST FLIGHT DECK

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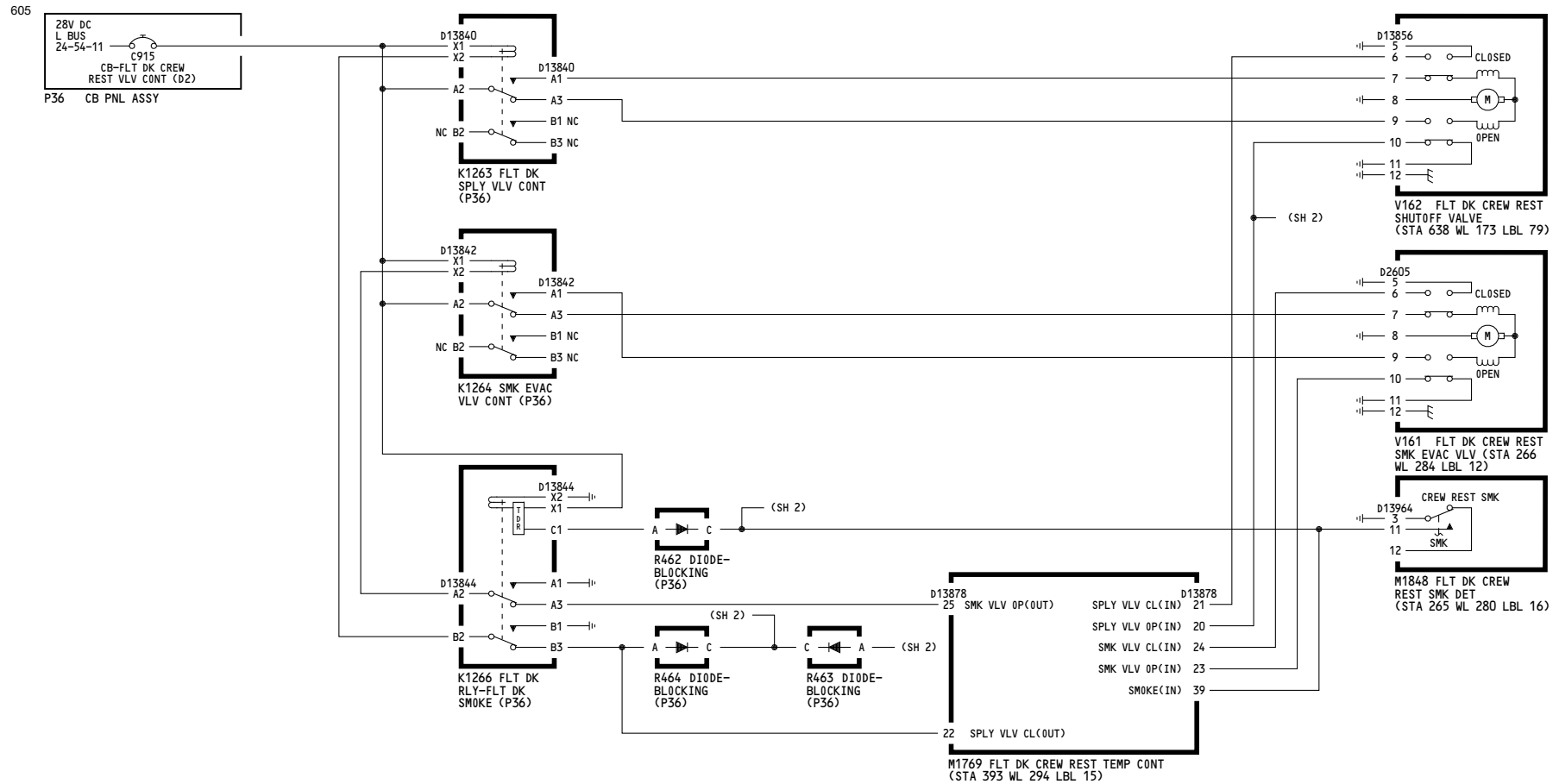
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TEMPERATURE CONTROL
CREW REST
FLIGHT DECK

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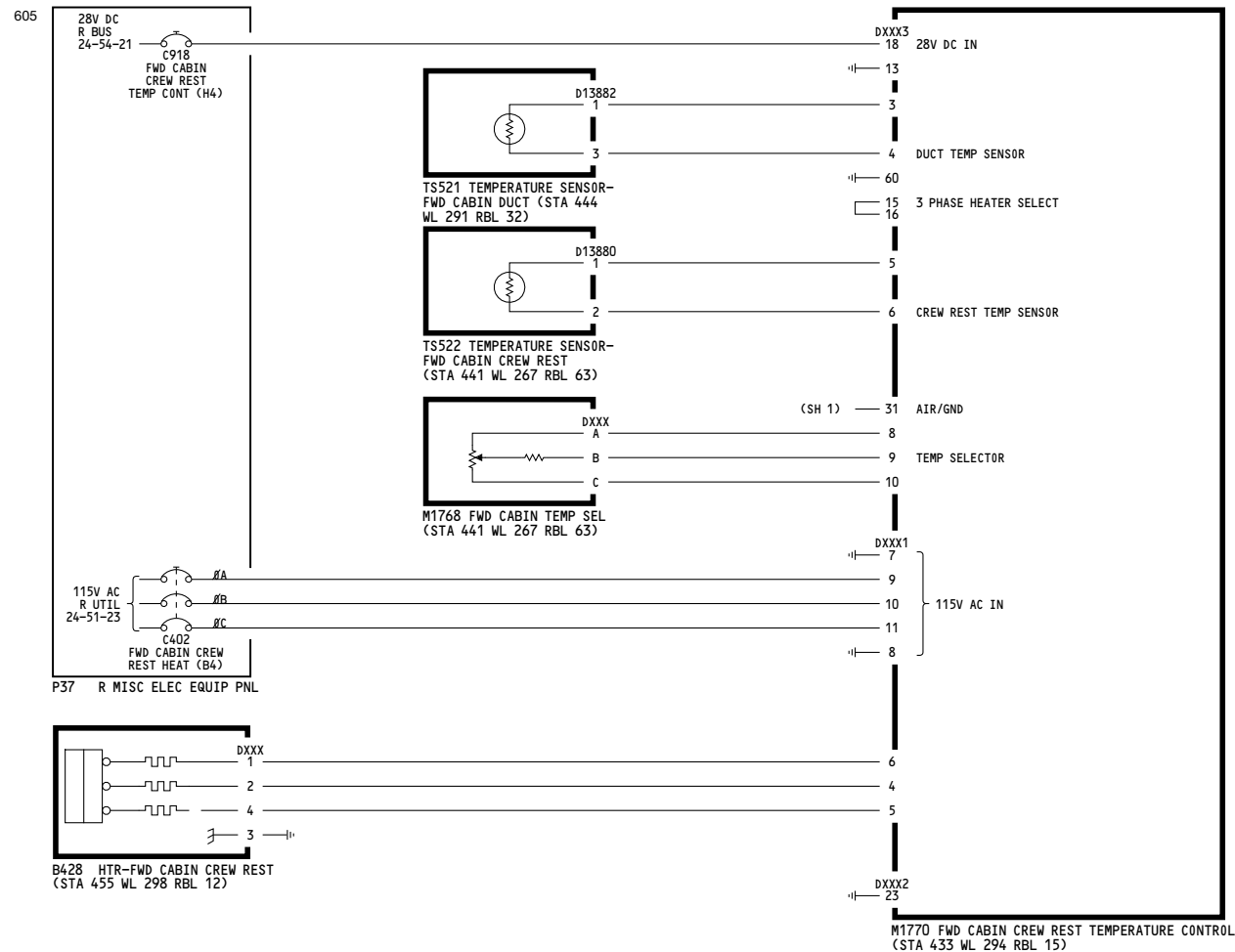
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CREW REST
FLIGHT DECK

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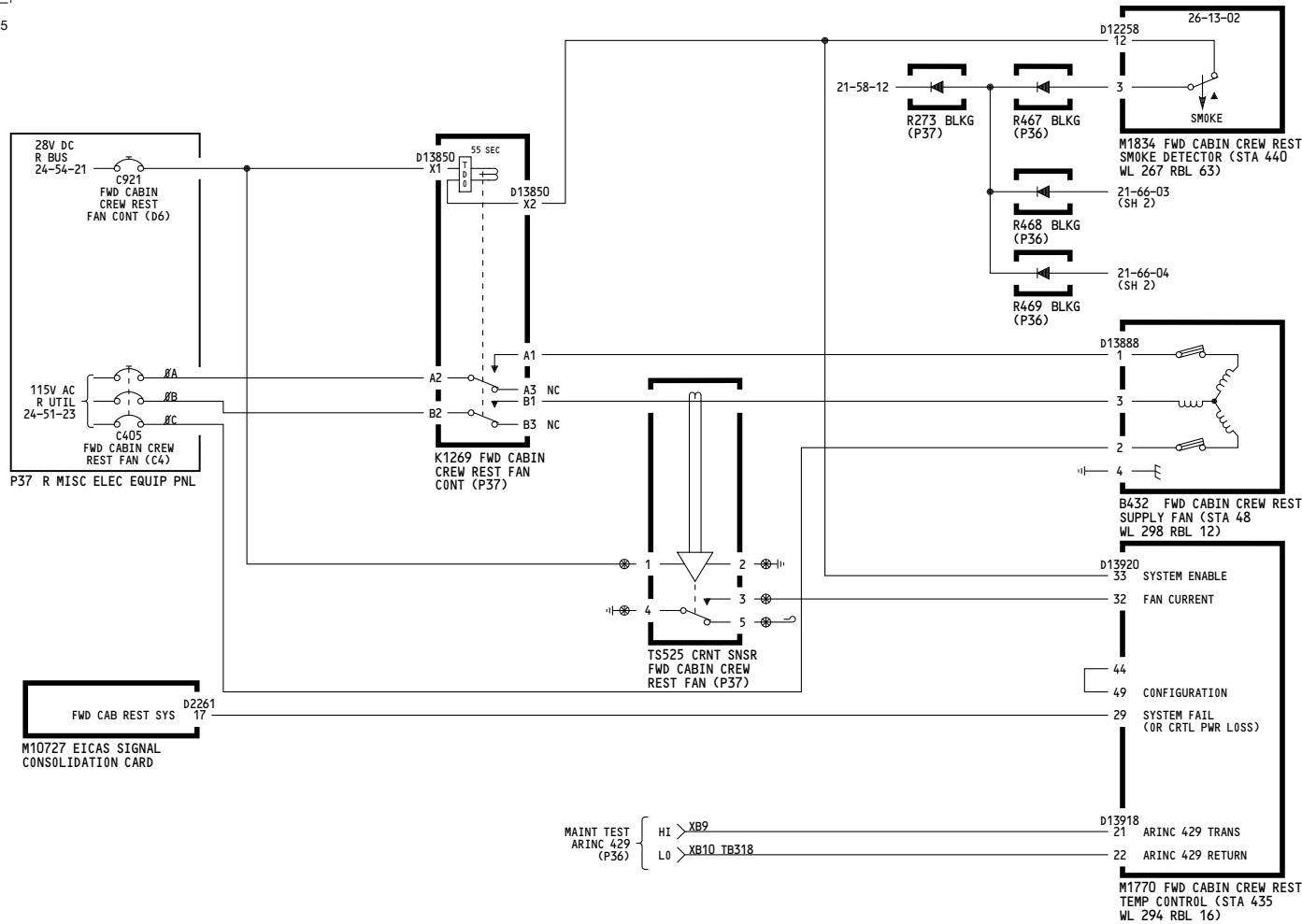
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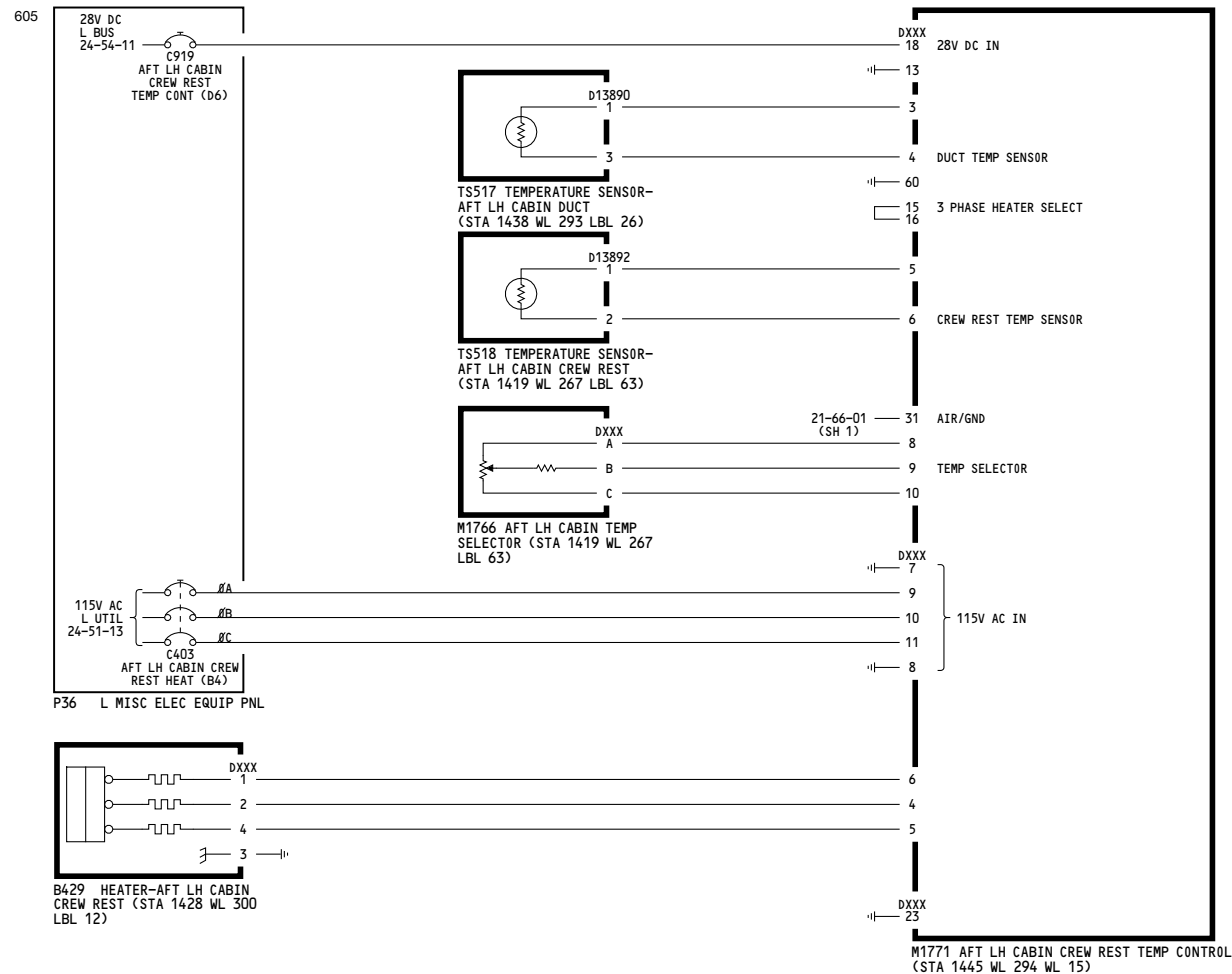
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**TEMPERATURE CONTROL
FLIGHT DECK CREW REST**

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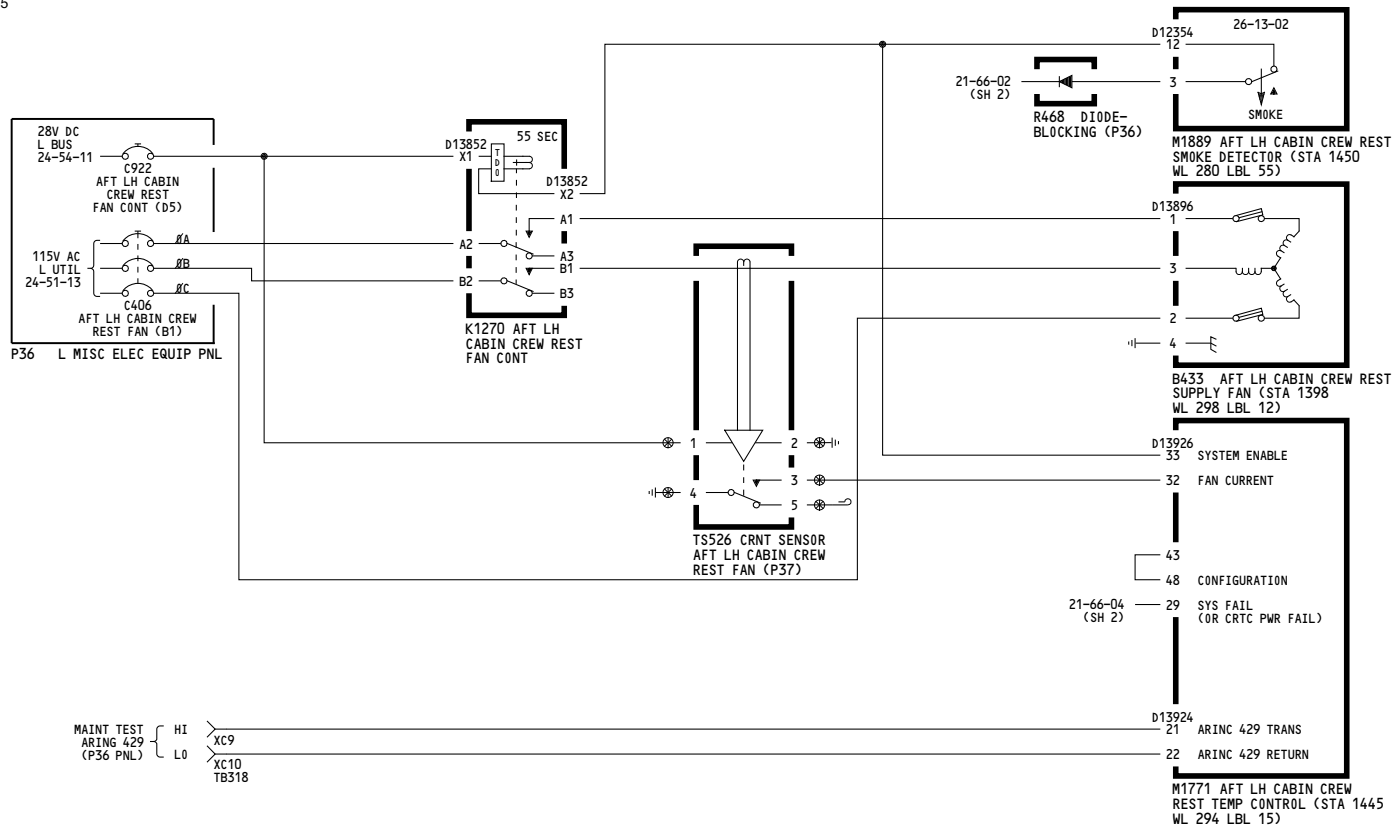
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CREW REST
AFT LEFT CABIN**

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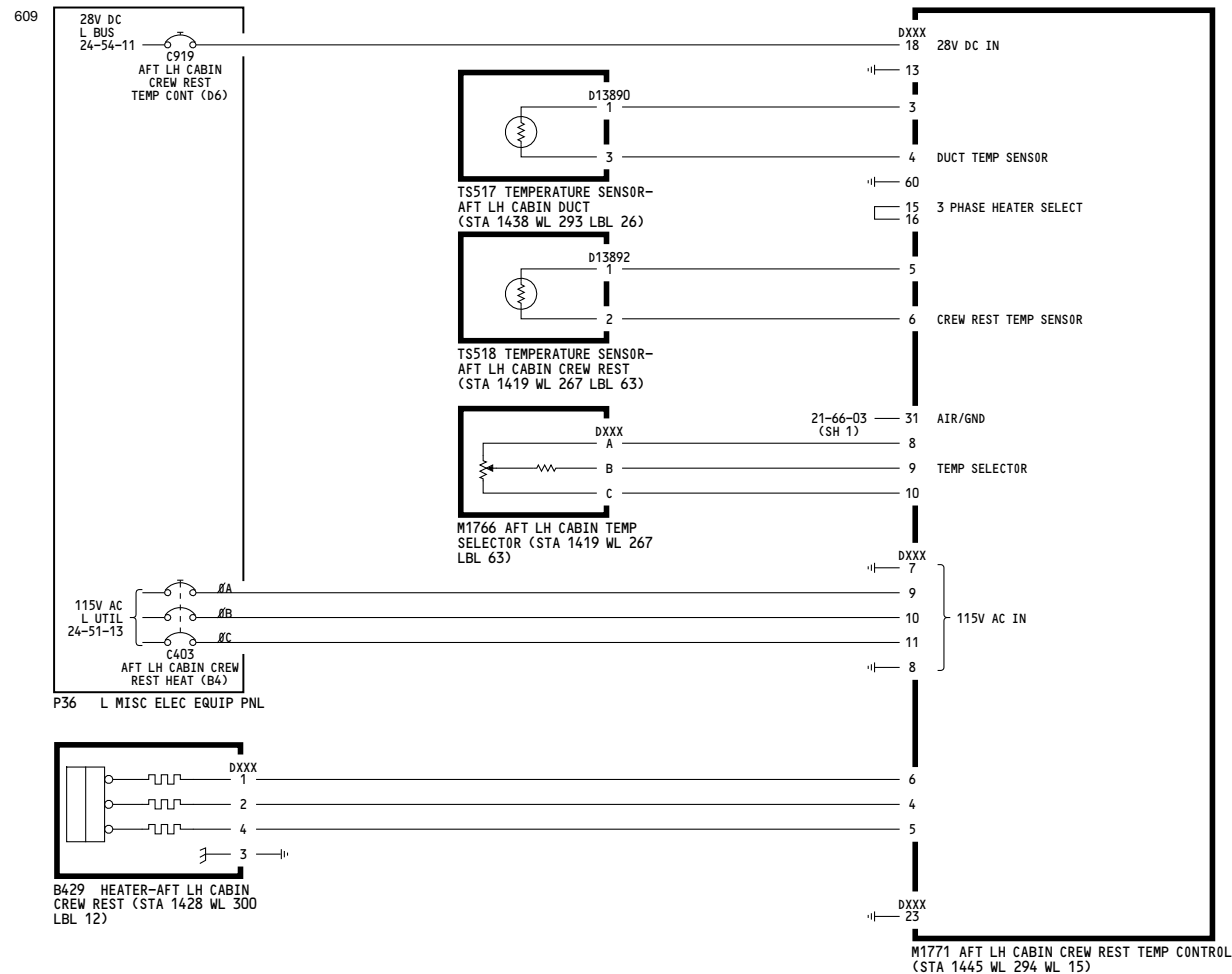
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**TEMPERATURE CONTROL
 CREW REST
 AFT LEFT CABIN**

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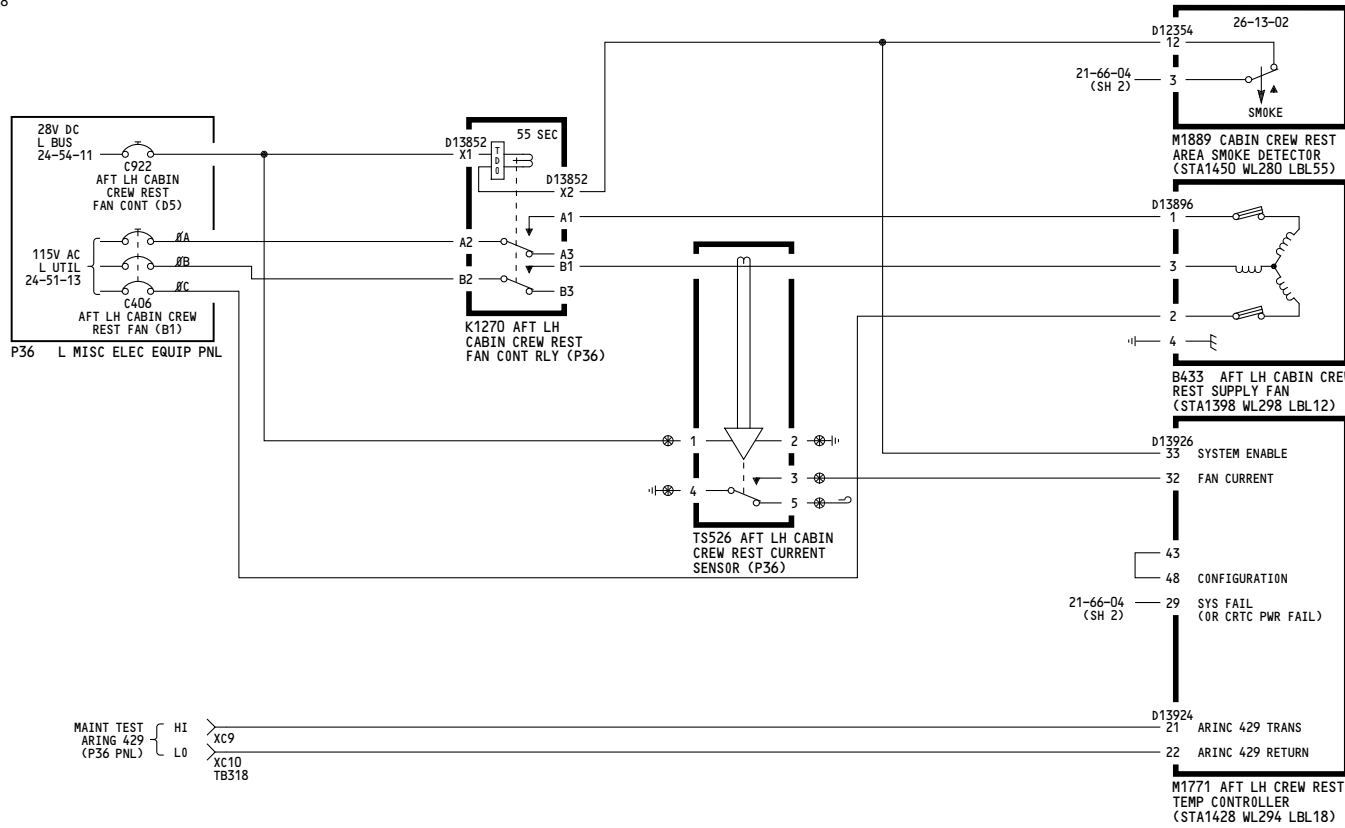
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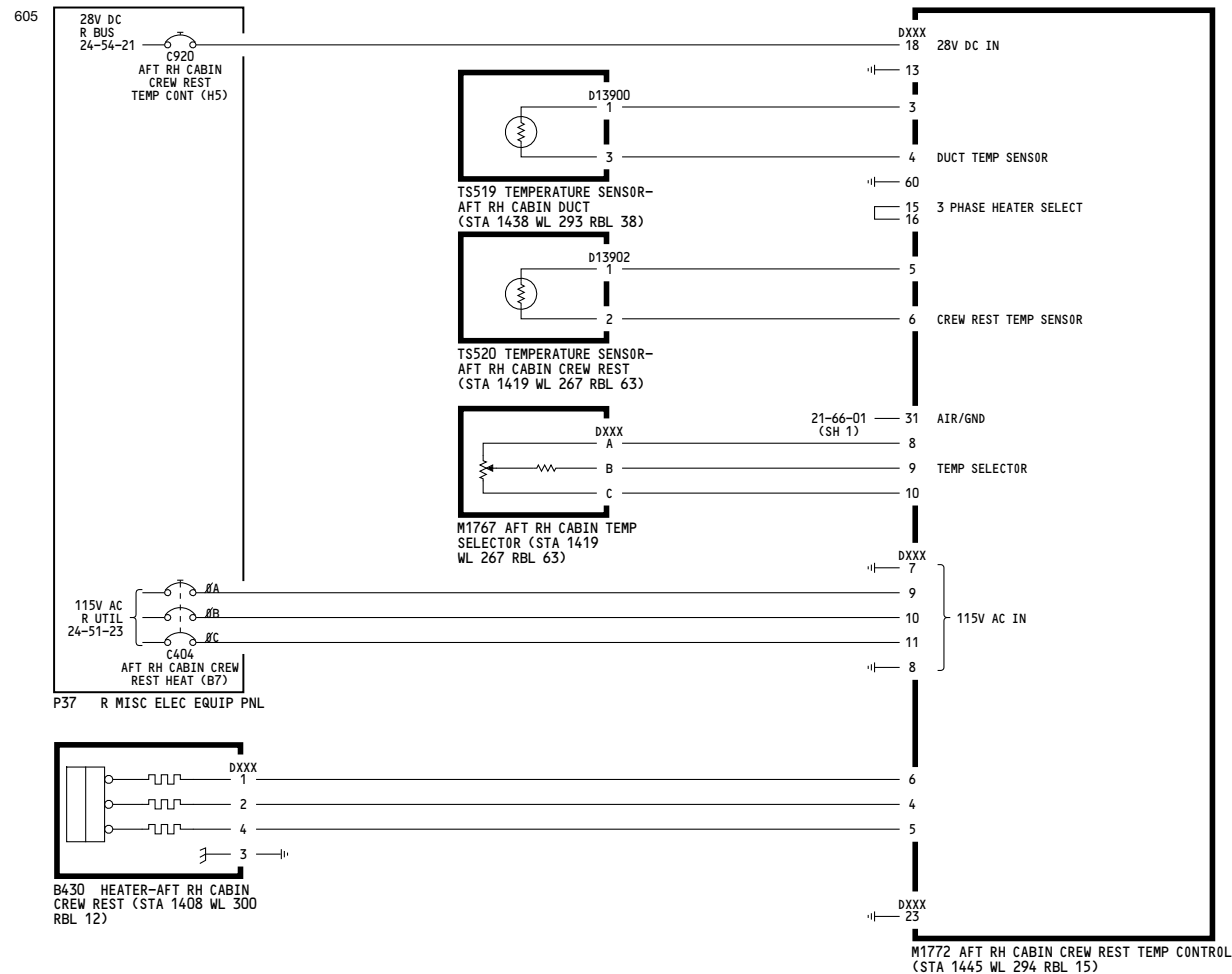
**TEMPERATURE CONTROL
CREW REST
AFT LEFT CABIN**

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NOTES: ALL WIRES 22 GA EXCEPT AS NOTED

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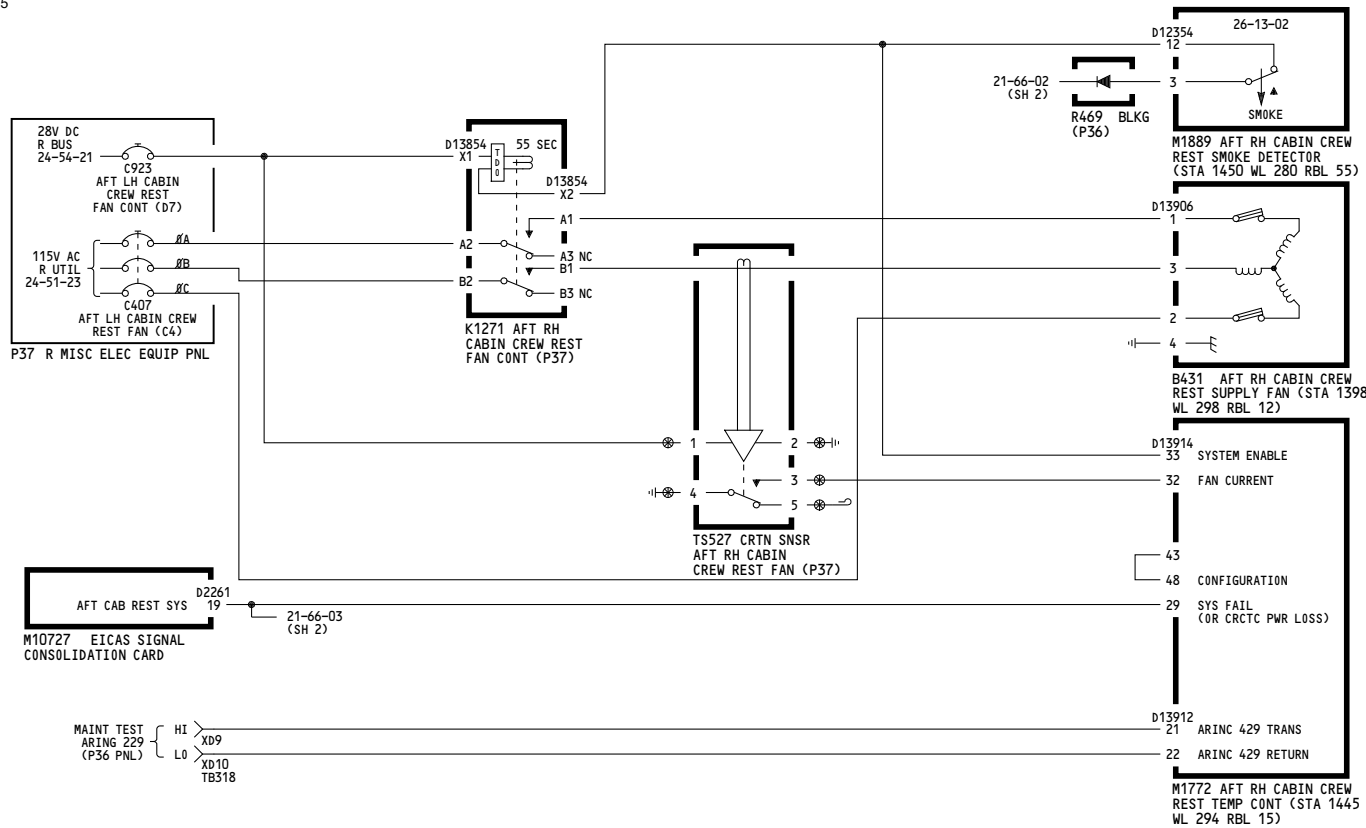
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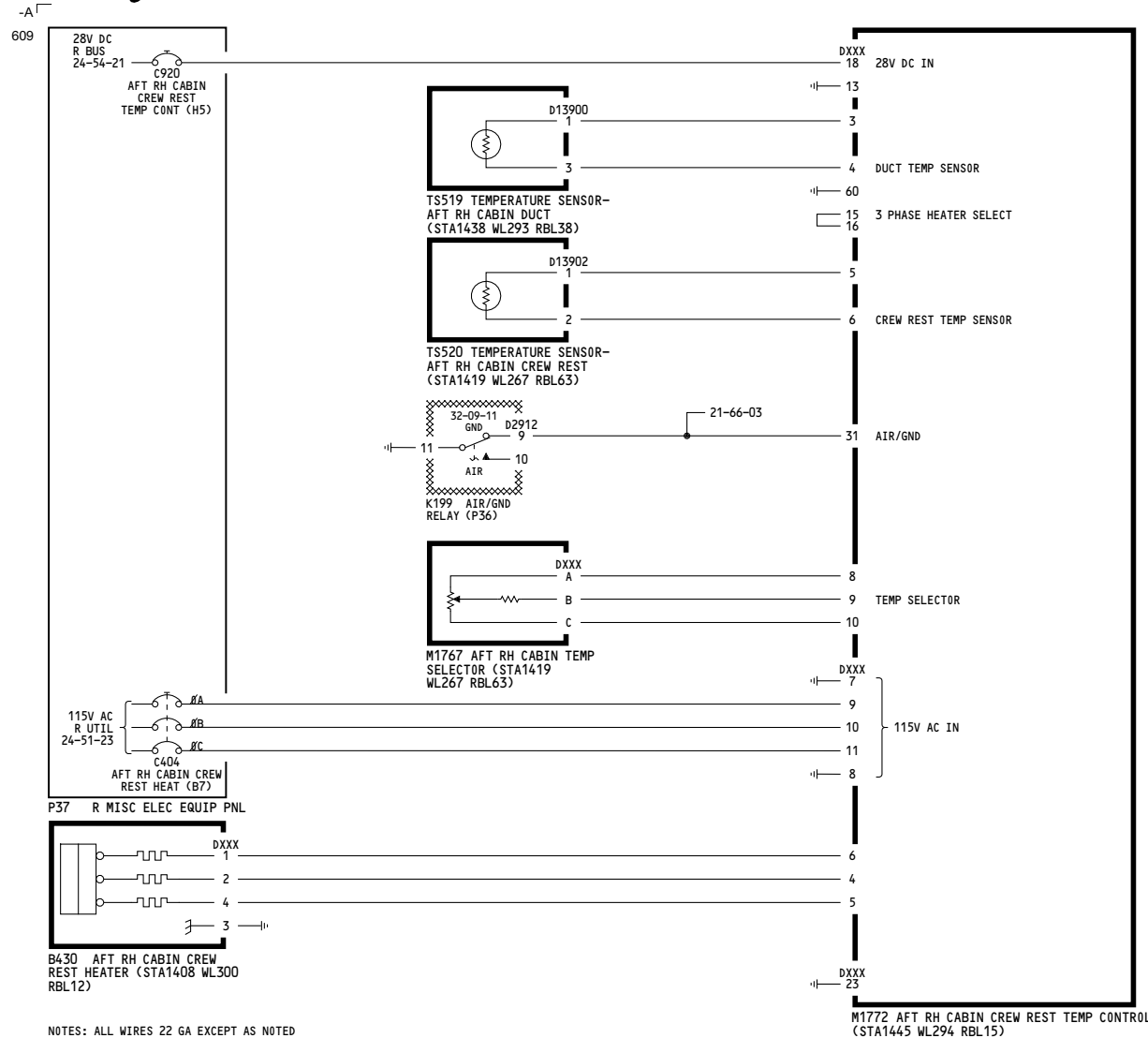
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**TEMPERATURE CONTROL
ATTENDANT CREW REST**

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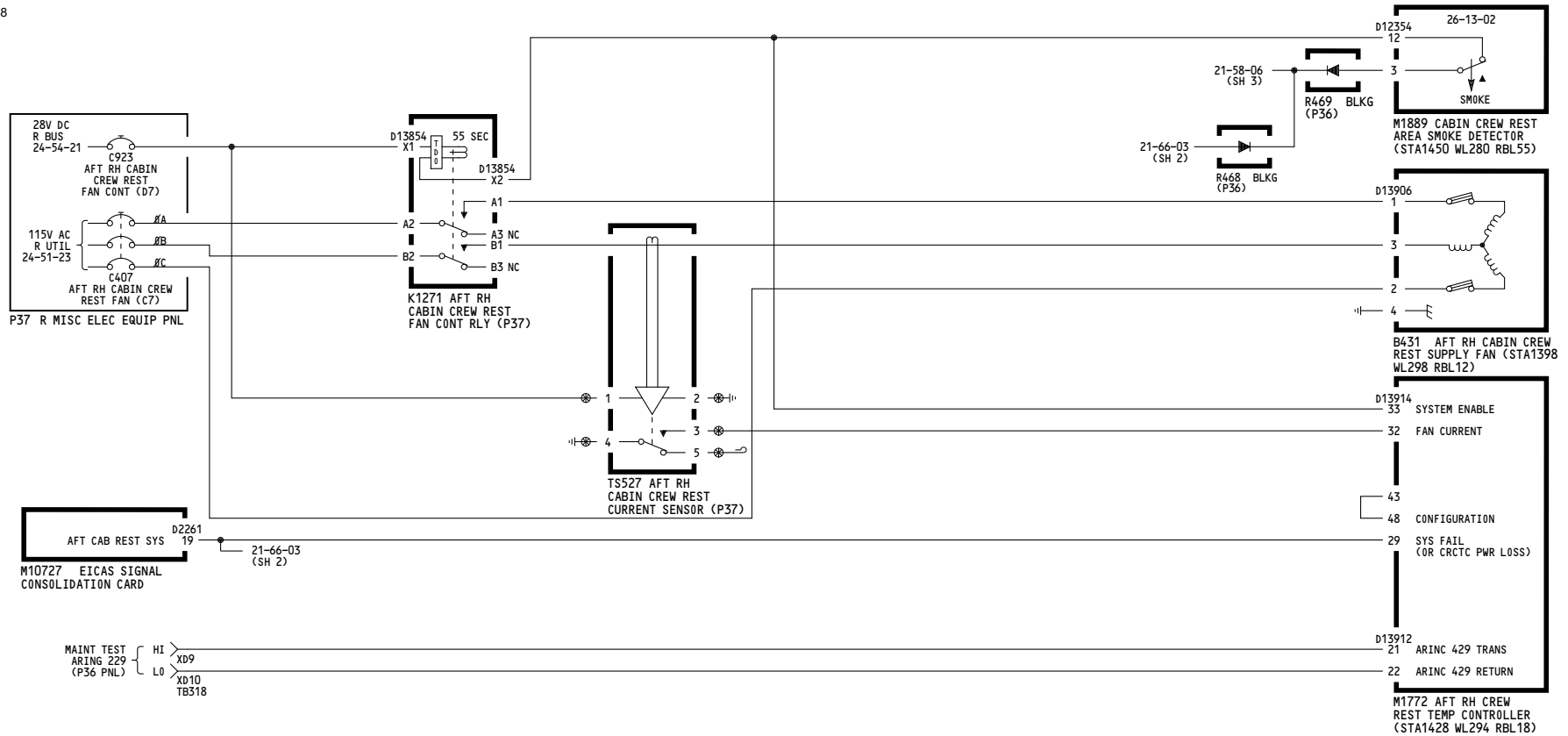


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**TEMPERATURE CONTROL
ATTENDANT CREW REST**

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MTO 210353

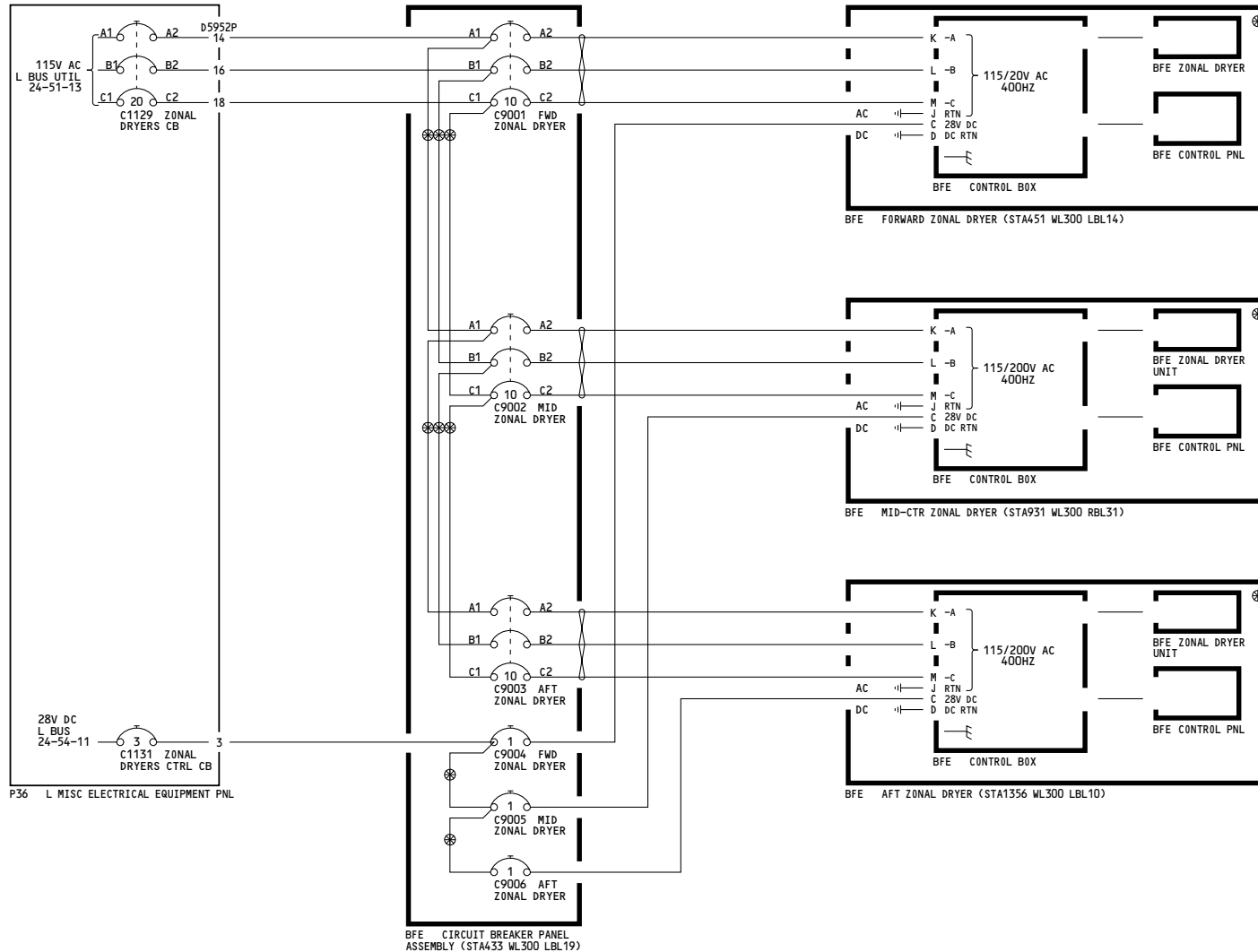
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