

**CHAPTER**

**21**

**AIR CONDITIONING**



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AIR CONDITIONING

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
21-EFFECTIVE PAGES					21-27-21 (cont.)				
		1 thru 5		Aug 10/2009			103	1	Oct 20/2006
		6		BLANK				2	Oct 20/2006
21-CONTENTS					21-27-31				
		1		Feb 09/2009			101	1	Jul 17/2007
		2		May 11/2009				2	Jul 17/2007
		3		Feb 09/2009			102	1	Feb 09/2009
R		4		Aug 10/2009				2	Feb 09/2009
O		5		Aug 10/2009			103	1	Oct 20/2006
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O		7		Aug 10/2009					
O		8		BLANK					
21-ALPHABETICAL INDEX					21-31-11				
		1		Oct 15/2007			101		Jul 17/2007
		2		BLANK			102		Feb 09/2009
	21-25-11								
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		102	1	Feb 09/2009			102	1	Feb 09/2009
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		103		Jan 14/2008					
	21-27-21								
		101	1	Jul 17/2007				1	Jul 17/2007
			2	Jul 17/2007				2	Jul 17/2007
								1	Mar 31/2005
		102	1	Feb 09/2009				2	Mar 31/2005
			2	Feb 09/2009				1	Feb 09/2009

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			2	Feb 09/2009				2	Jul 17/2007
21-31-24							102	1	May 13/2008
		101		Jul 17/2007				2	Oct 20/2005
		102		May 11/2009			103	1	Feb 09/2009
		103		May 11/2009				2	Feb 09/2009
21-31-25							104	1	May 13/2008
		101		Feb 09/2009				2	Oct 20/2006
21-33-11							105	1	May 13/2008
		101		Jul 17/2007				2	Oct 20/2006
		102		Aug 13/2008			106	1	Jan 14/2008
		103		Feb 09/2009				2	Jan 14/2008
		104		Feb 09/2009	21-51-12				
21-42-11							101	1	Oct 20/2006
		101		Jul 17/2007				2	Jul 26/2006
		102		Jul 26/2006				3	Mar 31/2005
		103		Feb 09/2009				4	Mar 31/2005
		104		Jan 14/2008			101.1	1	Oct 20/2006
21-43-21								2	Jul 26/2006
		101		Jul 17/2007				3	Mar 31/2005
		102		Feb 09/2009				4	Mar 31/2005
		103		Jan 14/2008			102	1	Feb 09/2009
21-51-11								2	Feb 09/2009
		101	1	Jul 17/2007				3	Feb 09/2009

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21-51-12 (cont.)		102			21-51-21 (cont.)		102		
			4	Feb 09/2009				2	Feb 09/2009
21-51-13							103		Jan 14/2008
		101		Feb 09/2009	21-51-22				
21-51-14							101	1	Jul 26/2006
R		101	1	Aug 10/2009				2	Jul 26/2006
R			2	Aug 10/2009				3	Mar 31/2005
R			3	Aug 10/2009				4	Mar 31/2005
R		102	1	Aug 10/2009			101.1	1	Jul 26/2006
R			2	Aug 10/2009				2	Jul 26/2006
D			3	Aug 10/2009				3	Mar 31/2005
D		103	1	Aug 10/2009				4	Mar 31/2005
D			2	Aug 10/2009			102	1	Feb 09/2009
D		104	1	Aug 10/2009				2	Feb 09/2009
D			2	Aug 10/2009				3	Feb 09/2009
21-51-15								4	Feb 09/2009
		101		Feb 09/2009	21-51-23				
		102		Jan 14/2008			101		Feb 09/2009
21-51-16					21-51-24				
		101		Jan 14/2008			101	1	Feb 09/2009
21-51-21								2	May 11/2009
		101	1	Jul 17/2007				3	Feb 09/2009
			2	Jul 17/2007			102	1	May 13/2008
		102	1	Feb 09/2009				2	May 11/2009

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21-51-25		101		Feb 09/2009	21-61-13 (cont.)		101.1	1	Jul 26/2006
		102		Jan 14/2008				2	Jul 26/2006
21-51-26						102		1	Feb 09/2009
		101		Jan 14/2008				2	Feb 09/2009
21-51-31					21-61-14		101	1	Jul 26/2006
		101		Feb 09/2009				2	Jul 26/2006
21-61-11						101.1		1	Jul 26/2006
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21-61-12					21-61-21		101	1	Jan 14/2008
		101	1	Mar 31/2005				2	Jan 14/2008
			2	Jul 26/2006					
		101.1	1	Mar 31/2005	21-61-22		101	1	Jan 14/2008
			2	Jul 26/2006				2	Jan 14/2008
		102	1	Feb 09/2009					
			2	Feb 09/2009	21-61-31		101		Feb 09/2009
21-61-13									
		101	1	Jul 26/2006	21-61-50		101		Feb 09/2009
			2	Jul 26/2006					

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21-61-51		101		Mar 31/2005					
		102		Feb 09/2009					
		103		Jan 14/2008					

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<b><u>RECIRCULATION SYSTEM</u></b>						
CABIN AIR RECIRCULATION SYSTEM	21-25-11		101		Jul 17/2007	YC001-YC030
			102	1	Feb 09/2009	YC031-YL430
				2	Feb 09/2009	YC031-YL430
			103		Jan 14/2008	YM643-YM670
<b><u>EQUIPMENT COOLING SYSTEM</u></b>						
EQUIPMENT COOLING - EXHAUST	21-27-21		101	1	Jul 17/2007	YC001-YC030
				2	Jul 17/2007	YC001-YC030
			102	1	Feb 09/2009	YC031-YC050 YK907-YM670
				2	Feb 09/2009	YC031-YC050 YK907-YM670
			103	1	Oct 20/2006	YK901-YK906
				2	Oct 20/2006	YK901-YK906
EQUIPMENT COOLING - SUPPLY	21-27-31		101	1	Jul 17/2007	YC001-YC030
				2	Jul 17/2007	YC001-YC030
			102	1	Feb 09/2009	YC031-YC050 YK907-YM670
				2	Feb 09/2009	YC031-YC050 YK907-YM670
			103	1	Oct 20/2006	YK901-YK906
				2	Oct 20/2006	YK901-YK906
<b><u>PRESSURIZATION CONTROL SYSTEM</u></b>						
PRESSURIZATION CONTROL MANUAL MODE	21-31-11		101		Jul 17/2007	YC001-YC030
			102		Feb 09/2009	YC031-YM670
PRESSURIZATION CONTROL AUTO 1	21-31-22		101	1	Jul 17/2007	YC001-YC026
				2	Jul 17/2007	YC001-YC026



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PRESSURIZATION CONTROL AUTO 1 (cont.)	21-31-22		102	1	Feb 09/2009	YC028-YM670	
				2	Feb 09/2009	YC028-YM670	
PRESSURIZATION CONTROL AUTO 2	21-31-23		101	1	Jul 17/2007	YC001-YC026	
				2	Jul 17/2007	YC001-YC026	
				102	1	Mar 31/2005	YC028-YC030
				2	Mar 31/2005	YC028-YC030	
				103	1	Feb 09/2009	YC031-YM670
				2	Feb 09/2009	YC031-YM670	
PRESSURIZATION CONTROL AUTO CHANNEL INTERFACES	21-31-24		101		Jul 17/2007	YC001-YC030	
				102	May 11/2009	YC031-YK912 YK918-YK919 YL401-YL429	
				103	May 11/2009	YM643-YM652	
PRESSURIZATION CONTROL LCD LIGHTING	21-31-25		101		Feb 09/2009	ALL	
<b><u>CABIN PRESSURE INDICATION AND WARNING SYSTEM</u></b>							
CABIN PRESSURE WARNING	21-33-11		101		Jul 17/2007	YC001-YK910 YL421-YL423 YM643	
				102	Aug 13/2008	YK911 YM651	
				103	Feb 09/2009	YK912-YK917 YK919-YL401 YL427-YL430 YM652-YM670	
				104	Feb 09/2009	YK918 YL424-YL426 YM645-YM649	
<b><u>SUPPLEMENTAL HEATING SYSTEMS</u></b>							
DOOR AREA HEATERS	21-42-11		101		Jul 17/2007	YC001-YC028	
				102	Jul 26/2006	YC029-YC030 YK901-YK906	





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DOOR AREA HEATERS (cont.)	21-42-11		103		Feb 09/2009	YC031-YC050 YK907-YL430
			104		Jan 14/2008	YM643-YM670
<b><u>FORWARD CARGO COMPARTMENT HEATING SYSTEM</u></b>						
OVERBOARD EXHAUST VALVE CONTROL	21-43-21		101		Jul 17/2007	YC001-YC030
			102		Feb 09/2009	YC031-YL430
			103		Jan 14/2008	YM643-YM670
<b><u>PACK FLOW CONTROL AND PACK COOLING SYSTEM</u></b>						
LEFT PACK VALVE CONTROL	21-51-11		101	1	Jul 17/2007	YC001-YC028
				2	Jul 17/2007	YC001-YC028
			102	1	May 13/2008	YC029-YC030
				2	Oct 20/2005	YC029-YC030
			103	1	Feb 09/2009	YC031-YC050 YK907-YL430
				2	Feb 09/2009	YC031-YC050 YK907-YL430
			104	1	May 13/2008	YK901-YK905
				2	Oct 20/2006	YK901-YK905
			105	1	May 13/2008	YK906
				2	Oct 20/2006	YK906
			106	1	Jan 14/2008	YM643-YM670
				2	Jan 14/2008	YM643-YM670
LEFT AIR CONDITIONING PACK CONTROL - AUTO	21-51-12		101	1	Oct 20/2006	YC001-YC022
				2	Jul 26/2006	YC001-YC022
				3	Mar 31/2005	YC001-YC022
				4	Mar 31/2005	YC001-YC022



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LEFT AIR CONDITIONING PACK CONTROL - AUTO (cont.)	21-51-12		101.1	1	Oct 20/2006	YC001-YC022			
				2	Jul 26/2006	YC001-YC022			
				3	Mar 31/2005	YC001-YC022			
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			LEFT AIR CONDITIONING PACK CONTROL STANDBY	21-51-13		101		Feb 09/2009	YC001-YL430
			LEFT RAM MODULATION CONTROL	21-51-14		101	1	Aug 10/2009	YC031-YC050 YK906-YK910 YK918 YL421-YL426
2	Aug 10/2009	YC031-YC050 YK906-YK910 YK918 YL421-YL426							
3	Aug 10/2009	YC031-YC050 YK906-YK910 YK918 YL421-YL426							
102	1	Aug 10/2009					YM643-YM649		
	2	Aug 10/2009					YM643-YM649		
LEFT PACK PROTECTION	21-51-15						101		Feb 09/2009
			102		Jan 14/2008	YM643-YM670			
LEFT WATER SEPARATOR 35 DEGREES FAHRENHEIT CONTROL	21-51-16		101		Jan 14/2008	YM643-YM670			
RIGHT PACK VALVE CONTROL	21-51-21		101	1	Jul 17/2007	YC001-YC028			
				2	Jul 17/2007	YC001-YC028			
				102	1	Feb 09/2009	YC029-YL430		



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RIGHT AIR CONDITIONING PACK CONTROL - AUTO	21-51-22		101	1	Jul 26/2006	YC001-YC022	
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RIGHT AIR CONDITIONING PACK CONTROL STANDBY	21-51-23		101		Feb 09/2009	YC001-YL430	
RIGHT RAM MODULATION CONTROL	21-51-24		101	1	Feb 09/2009	YC001-YL430	
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				102	1	May 13/2008	YM643-YM670
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RIGHT PACK PROTECTION	21-51-25		101		Feb 09/2009	YC001-YL430	
			102		Jan 14/2008	YM643-YM670	



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RIGHT WATER SEPARATOR 35 DEGREES FAHRENHEIT CONTROL	21-51-26		101		Jan 14/2008	YM643-YM670	
AIR CONDITIONING PACK CONTROL BITE	21-51-31		101		Feb 09/2009	YC001-YL430	
<b><u>ZONE TEMPERATURE CONTROL AND INDICATION</u></b>							
TEMPERATURE CONTROL - FLIGHT DECK ZONE (PRIMARY)	21-61-11		101	1	Jul 26/2006	YC001-YC022	
				2	Jul 26/2006	YC001-YC022	
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TEMPERATURE CONTROL - FLIGHT DECK ZONE (BACKUP)	21-61-12		101	1	Mar 31/2005	YC001-YC022	
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TEMPERATURE CONTROL - FWD PASSENGER ZONE	21-61-13		101	1	Jul 26/2006	YC001-YC022	
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				102	1	Feb 09/2009	YC023-YL430
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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
TEMPERATURE CONTROL - AFT PASSENGER ZONE	21-61-14		101	1	Jul 26/2006	YC001-YC022
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			102	1	Feb 09/2009	YC023-YL430
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TEMPERATURE CONTROL - TRIM PRESSURE REGULATION	21-61-15		101		Feb 09/2009	YC001-YL430
TEMPERATURE CONTROL - CONTROL CABIN	21-61-21		101	1	Jan 14/2008	YM643-YM670
				2	Jan 14/2008	YM643-YM670
TEMPERATURE CONTROL - PASSENGER CABIN	21-61-22		101	1	Jan 14/2008	YM643-YM670
				2	Jan 14/2008	YM643-YM670
AIR CONDITIONING TEMPERATURE INDICATION	21-61-31		101		Feb 09/2009	YC001-YL430
AIR CONDITIONING TEMPERATURE INDICATION SIMPLIFIED	21-61-50		101		Feb 09/2009	YC001-YL430
AIR CONDITIONING TEMPERATURE INDICATION	21-61-51		101		Mar 31/2005	YC001-YC011
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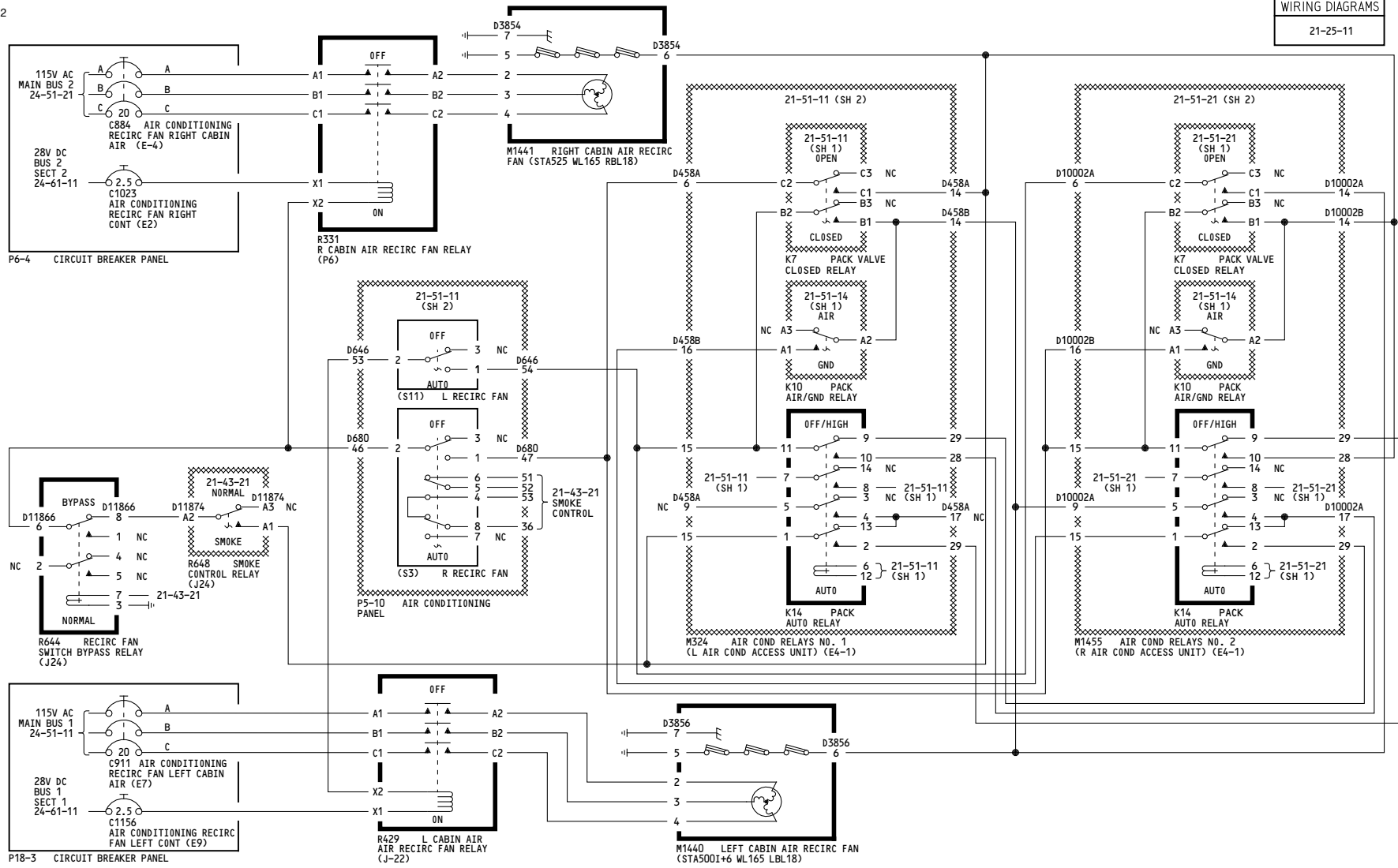
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21-61-31	AIR CONDITIONING TEMPERATURE INDICATION
21-61-51	AIR CONDITIONING TEMPERATURE INDICATION
21-61-50	AIR CONDITIONING TEMPERATURE INDICATION SIMPLIFIED
21-25-11	CABIN AIR RECIRCULATION SYSTEM
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21-42-11	DOOR AREA HEATERS
21-27-21	EQUIPMENT COOLING - EXHAUST
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21-51-12	LEFT AIR CONDITIONING PACK CONTROL - AUTO
21-51-13	LEFT AIR CONDITIONING PACK CONTROL STANDBY
21-51-15	LEFT PACK PROTECTION
21-51-11	LEFT PACK VALVE CONTROL
21-51-14	LEFT RAM MODULATION CONTROL
21-51-16	LEFT WATER SEPARATOR 35 DEGREES FAHRENHEIT CONTROL
21-43-21	OVERBOARD EXHAUST VALVE CONTROL
21-31-22	PRESSURIZATION CONTROL AUTO 1
21-31-23	PRESSURIZATION CONTROL AUTO 2

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21-31-24	PRESSURIZATION CONTROL AUTO CHANNEL INTERFACES
21-31-25	PRESSURIZATION CONTROL LCD LIGHTING
21-31-11	PRESSURIZATION CONTROL MANUAL MODE
21-51-22	RIGHT AIR CONDITIONING PACK CONTROL - AUTO
21-51-23	RIGHT AIR CONDITIONING PACK CONTROL STANDBY
21-51-25	RIGHT PACK PROTECTION
21-51-21	RIGHT PACK VALVE CONTROL
21-51-24	RIGHT RAM MODULATION CONTROL
21-51-26	RIGHT WATER SEPARATOR 35 DEGREES FAHRENHEIT CONTROL
21-61-14	TEMPERATURE CONTROL - AFT PASSENGER ZONE
21-61-21	TEMPERATURE CONTROL - CONTROL CABIN
21-61-12	TEMPERATURE CONTROL - FLIGHT DECK ZONE (BACKUP)
21-61-11	TEMPERATURE CONTROL - FLIGHT DECK ZONE (PRIMARY)
21-61-13	TEMPERATURE CONTROL - FWD PASSENGER ZONE
21-61-22	TEMPERATURE CONTROL - PASSENGER CABIN
21-61-15	TEMPERATURE CONTROL - TRIM PRESSURE REGULATION

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21-25-11



YC001-YC030

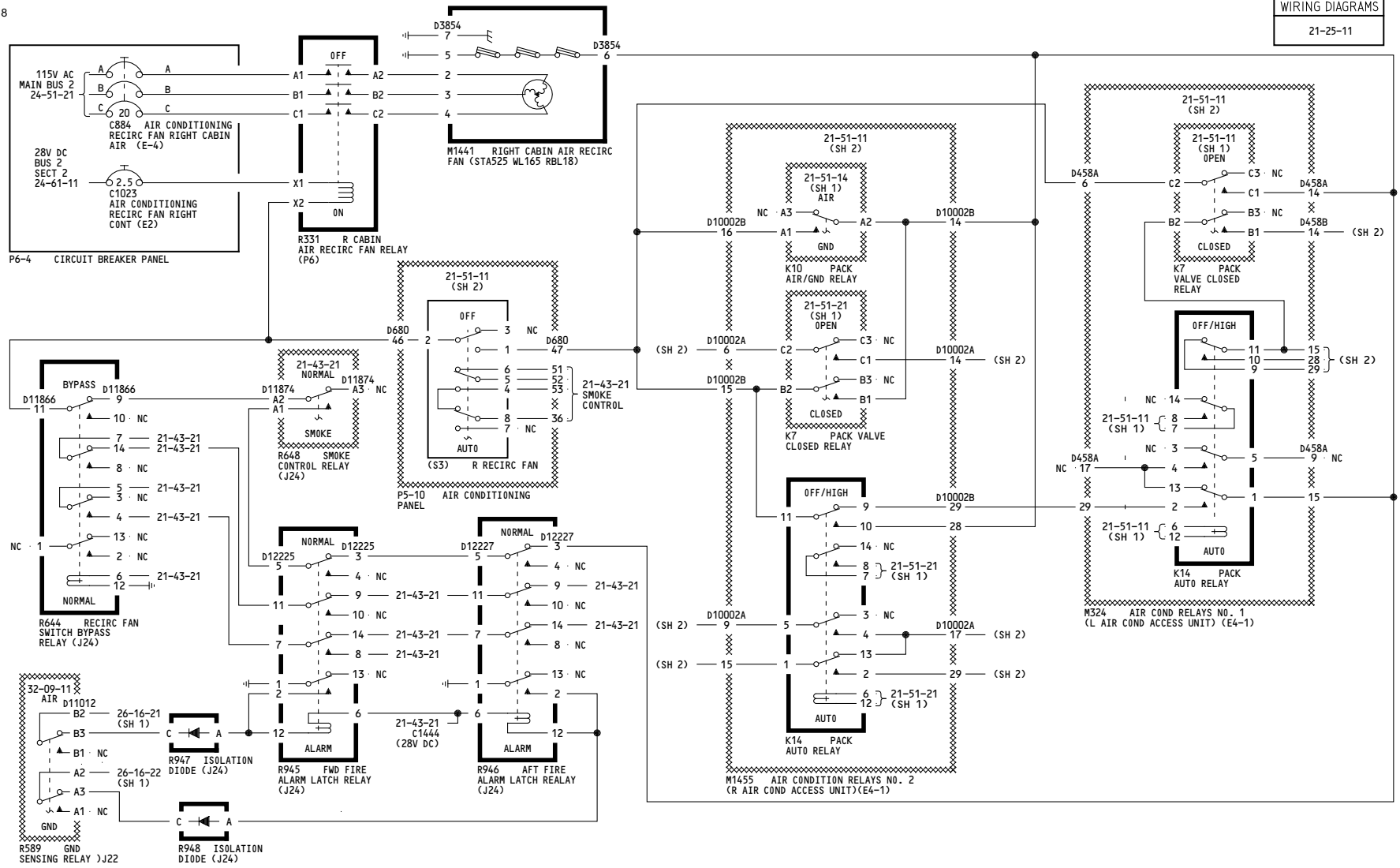
**CABIN AIR RECIRCULATION SYSTEM**

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**21-25-11**

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WIRING DIAGRAMS  
21-25-11



YC031-YL430

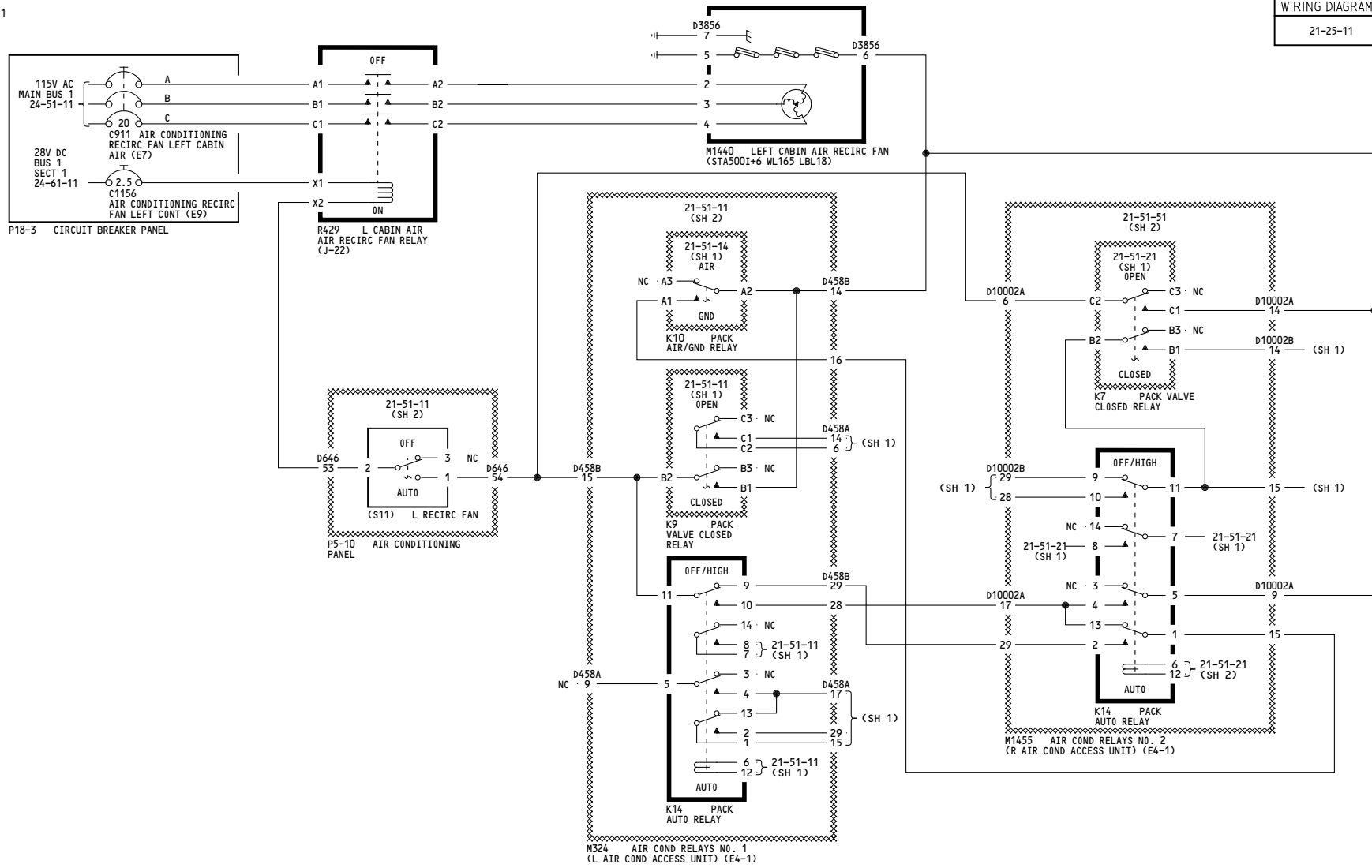
**CABIN AIR  
RECIRCULATION SYSTEM**

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**21-25-11**

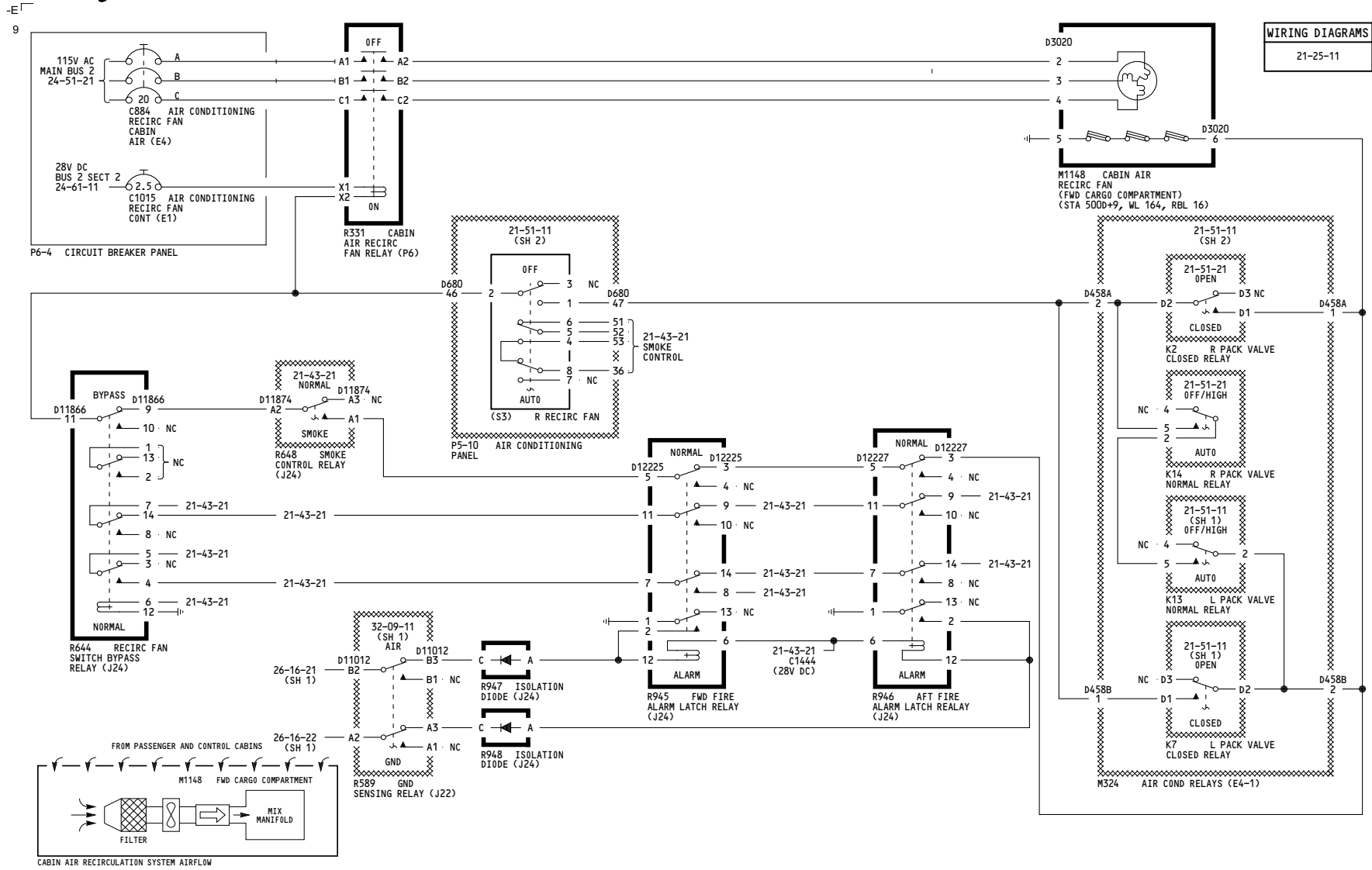


WIRING DIAGRAMS  
21-25-11



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**21-25-11**

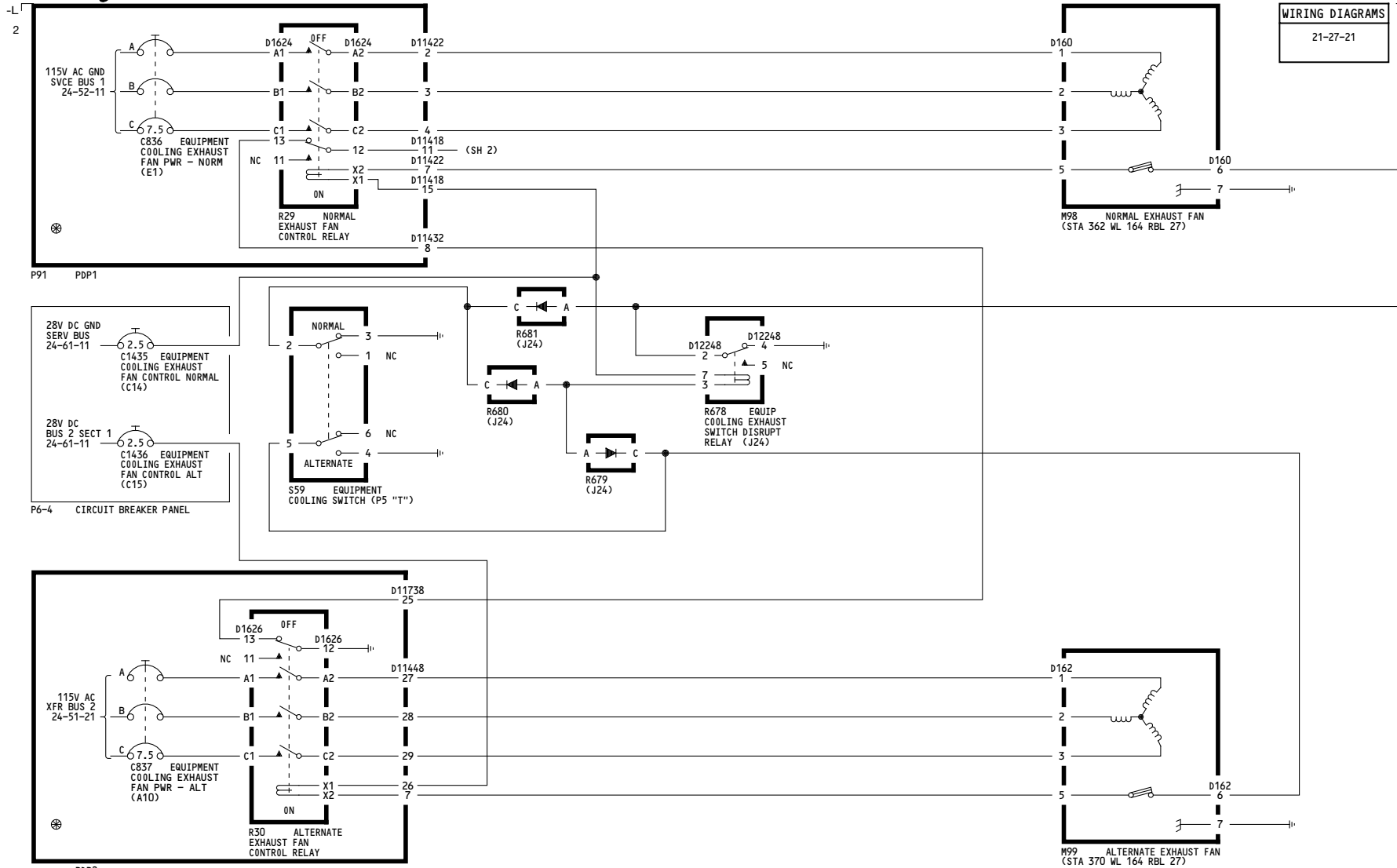


<p>YM643-YM670</p>	<p><b>CABIN AIR RECIRCULATION SYSTEM</b></p> <p>D280A203</p>
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21-25-11

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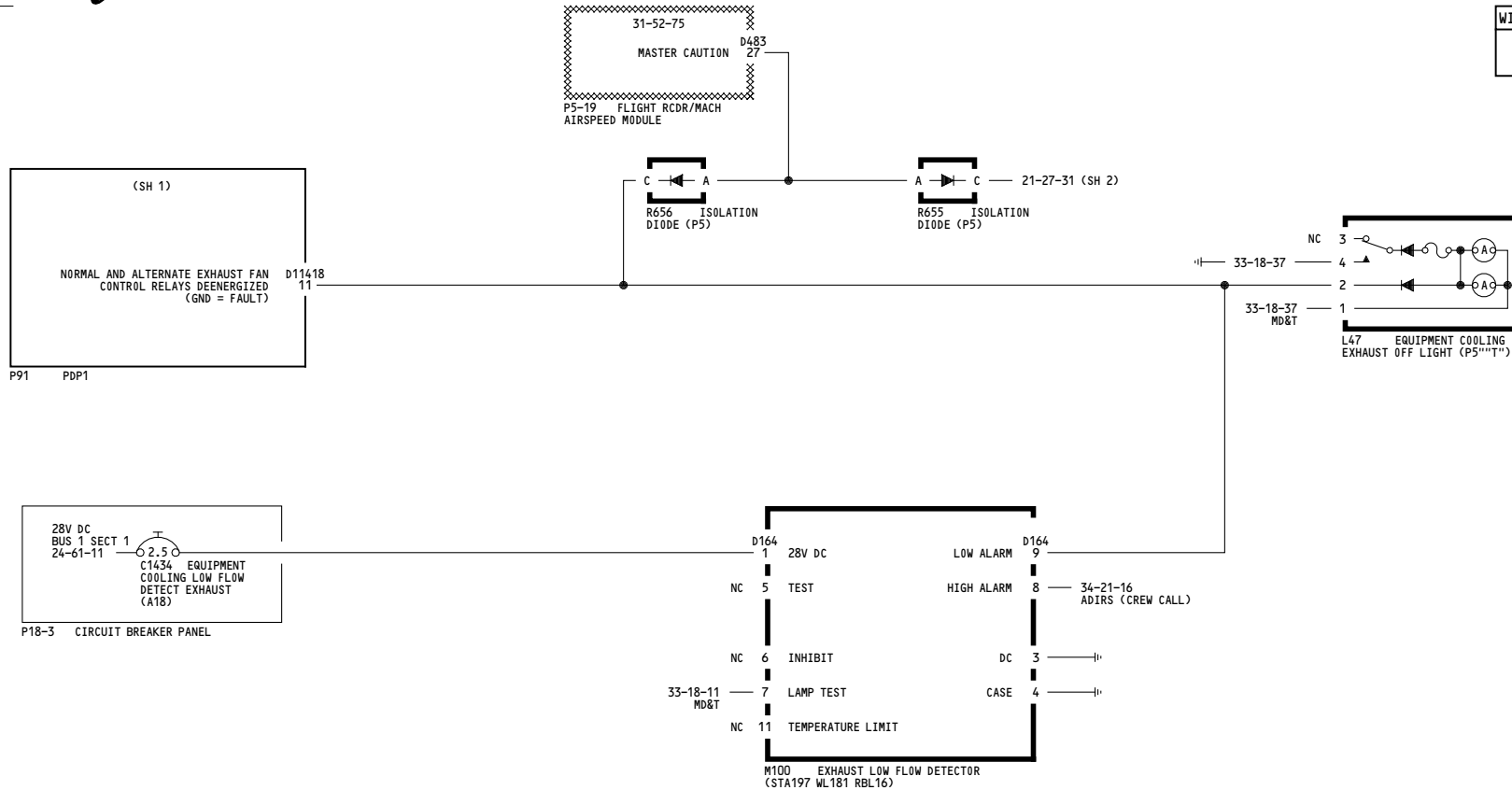
WIRING DIAGRAMS  
21-27-21



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**21-27-21**

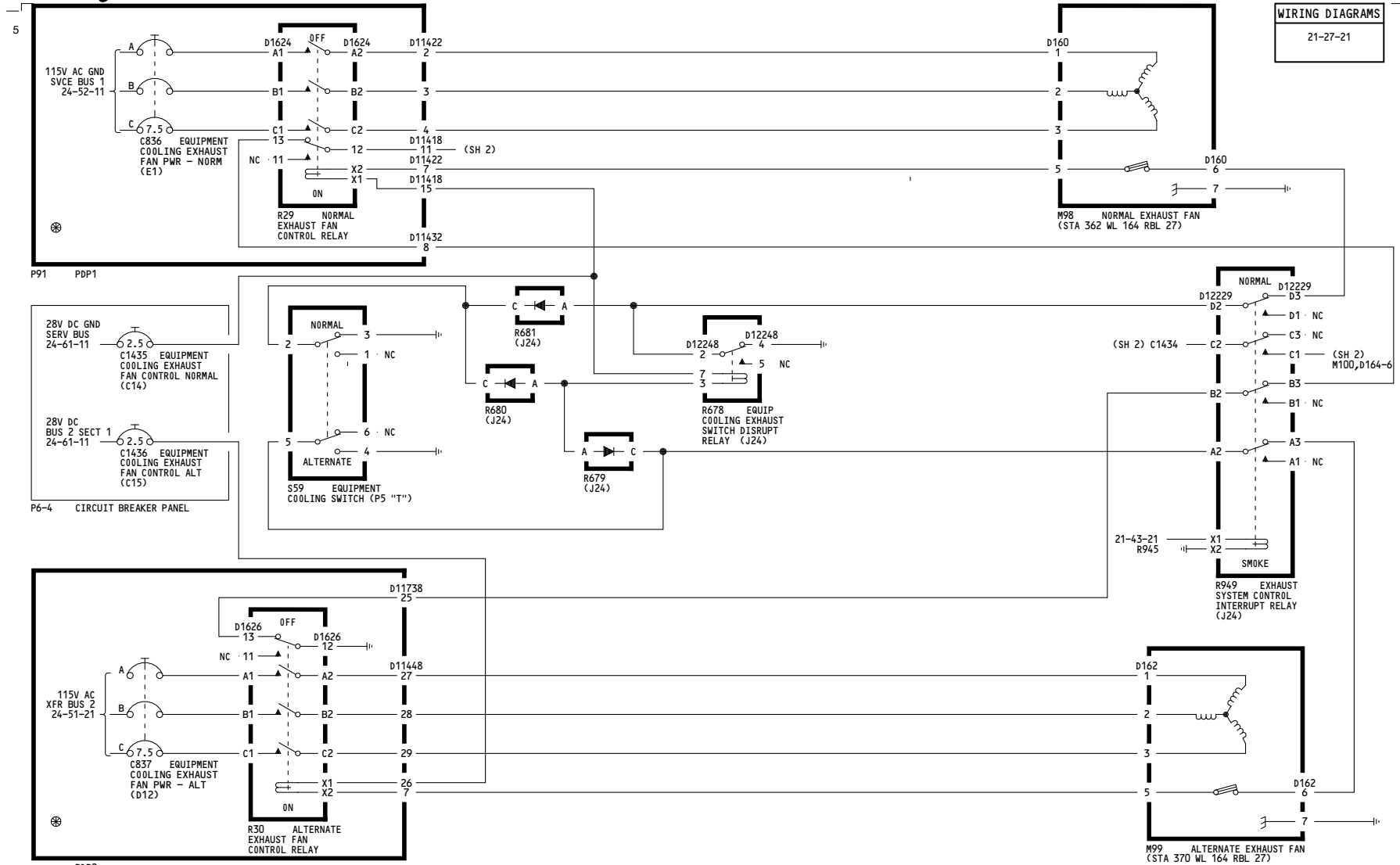
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YC001-YC030	<p align="center"><b>EQUIPMENT COOLING - EXHAUST</b></p> <p align="center">D280A203</p>
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WIRING DIAGRAMS  
21-27-21



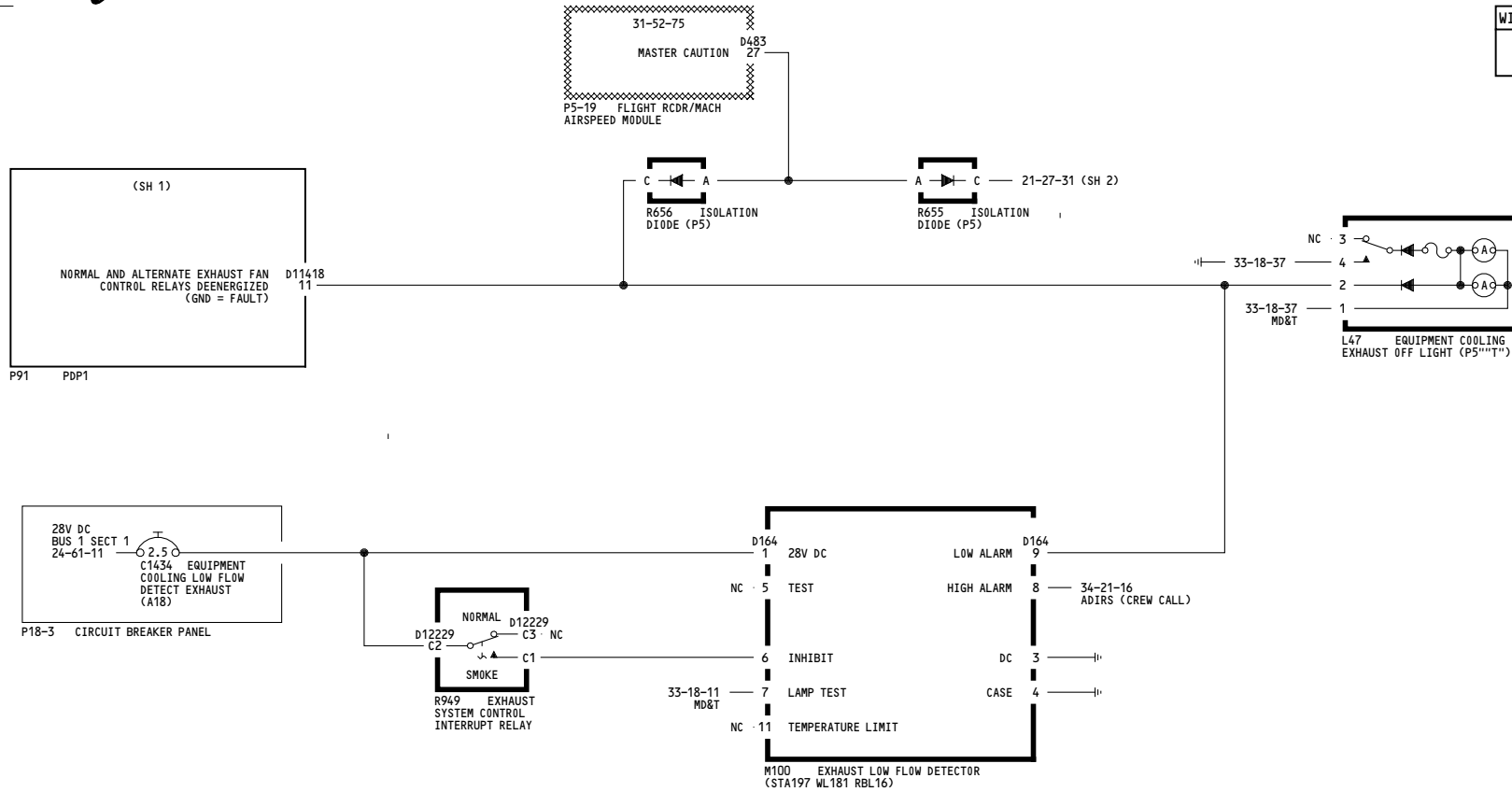
YC031-YC050, YK907-YM670

**EQUIPMENT COOLING - EXHAUST**

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**21-27-21**

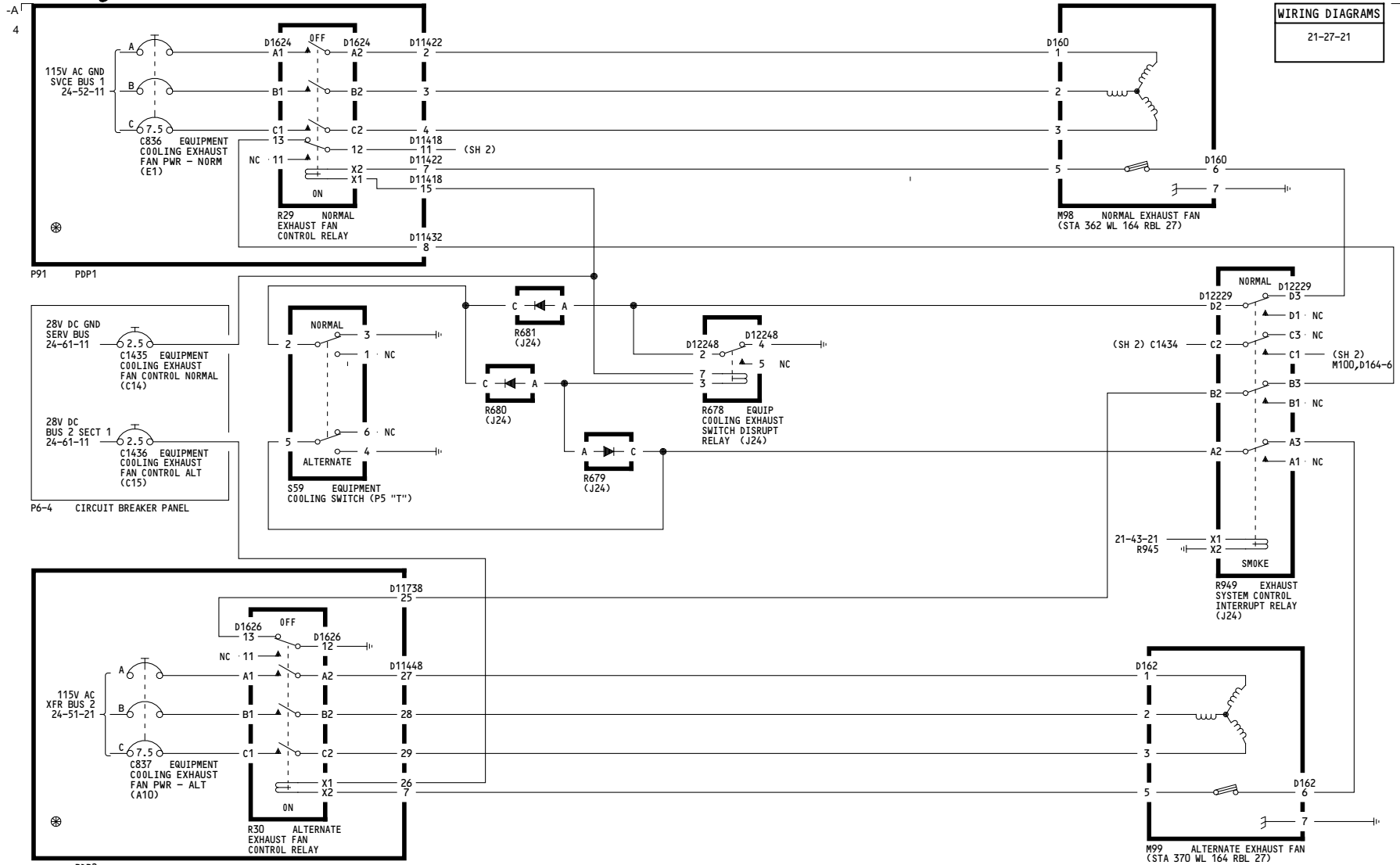
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<p>YC031-YC050, YK907-YM670</p>	<p><b>EQUIPMENT COOLING - EXHAUST</b></p> <p>D280A203</p>
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WIRING DIAGRAMS  
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YK901-YK906

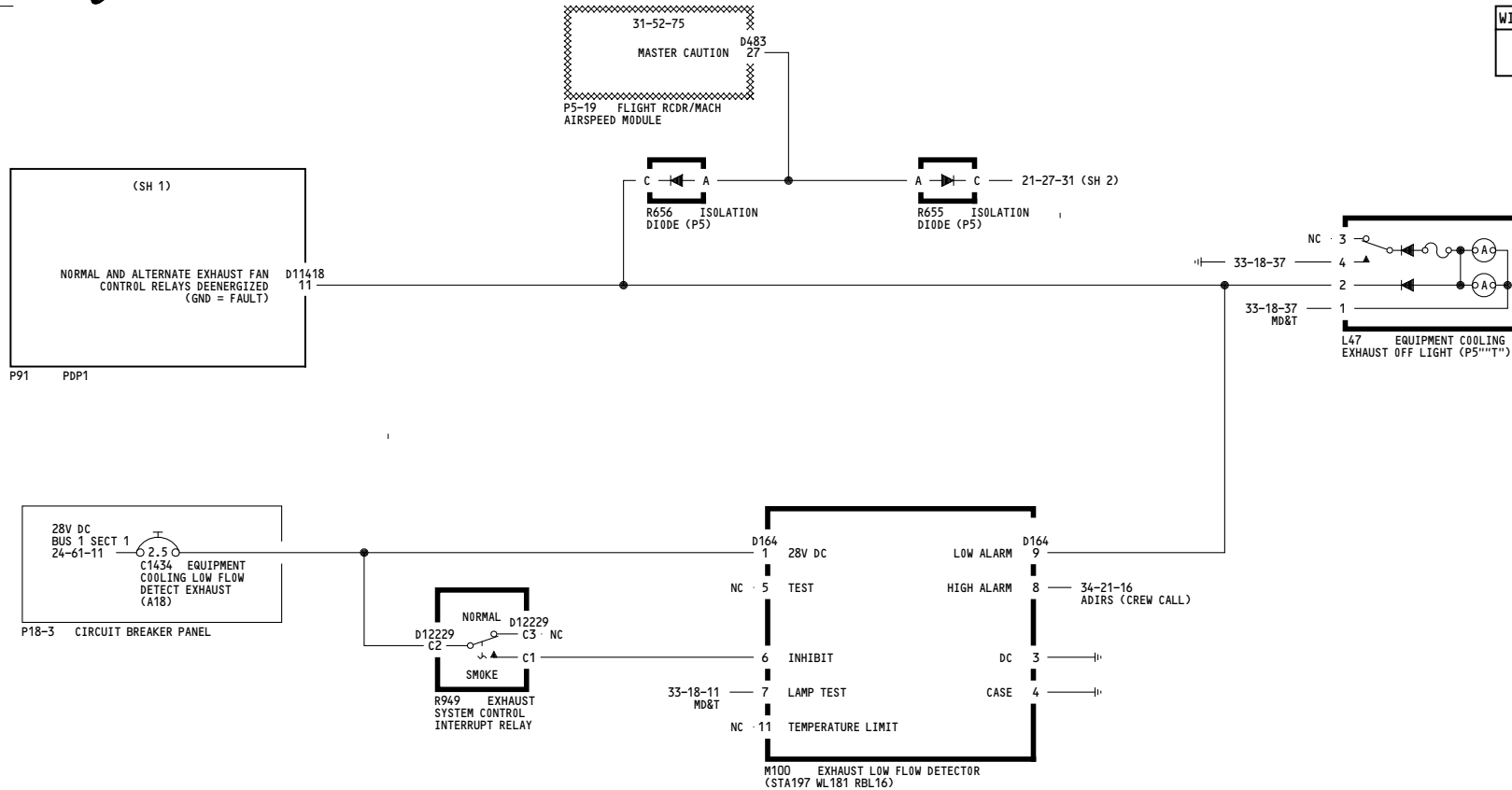
**EQUIPMENT COOLING - EXHAUST**

D280A203

21-27-21



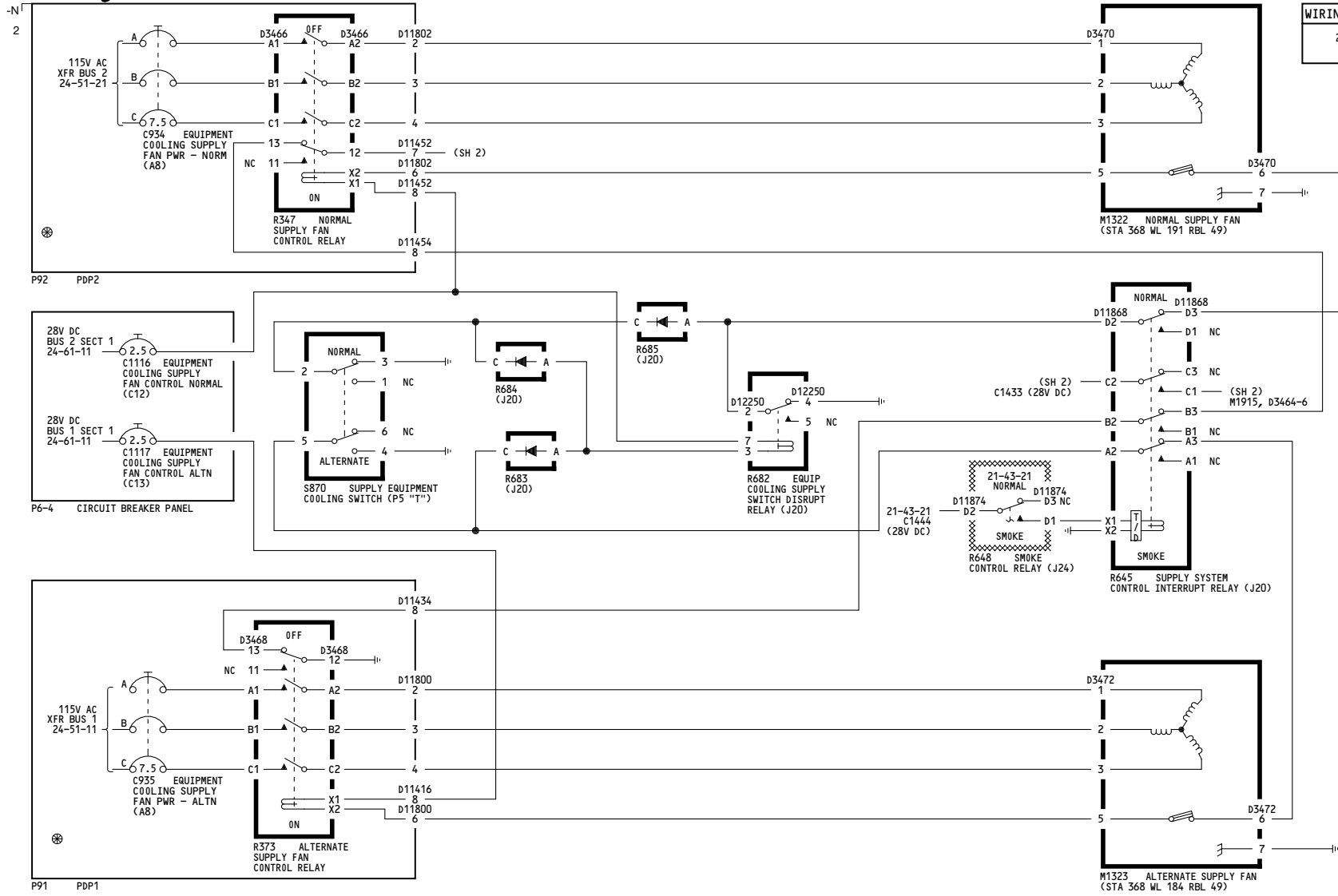
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<p>YK901-YK906</p>	<p><b>EQUIPMENT COOLING - EXHAUST</b></p> <p>D280A203</p>
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**21-27-21**

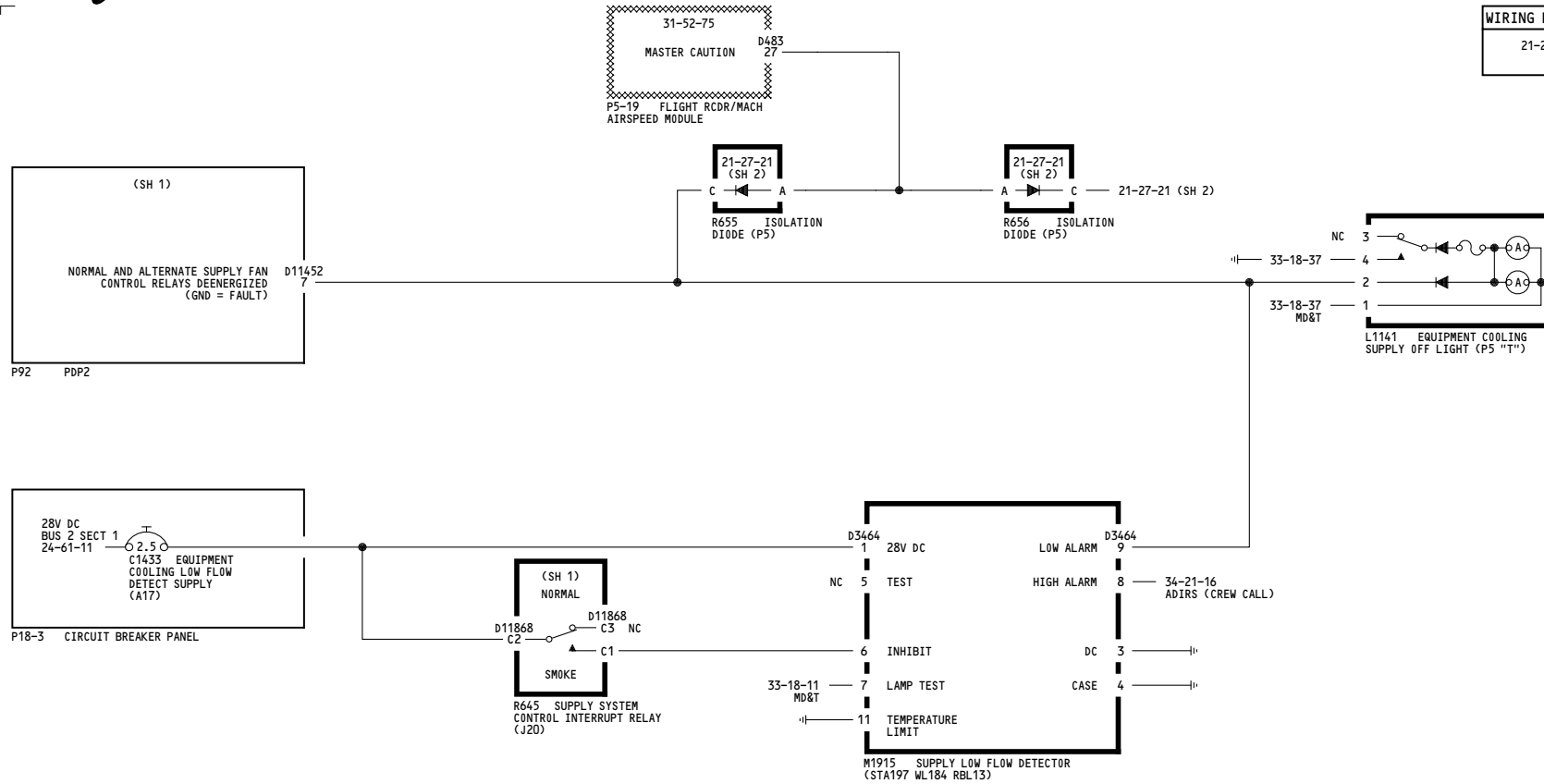
WIRING DIAGRAMS  
21-27-31



YC001-YC030	<b>EQUIPMENT COOLING - SUPPLY</b>  D280A203
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21-27-31

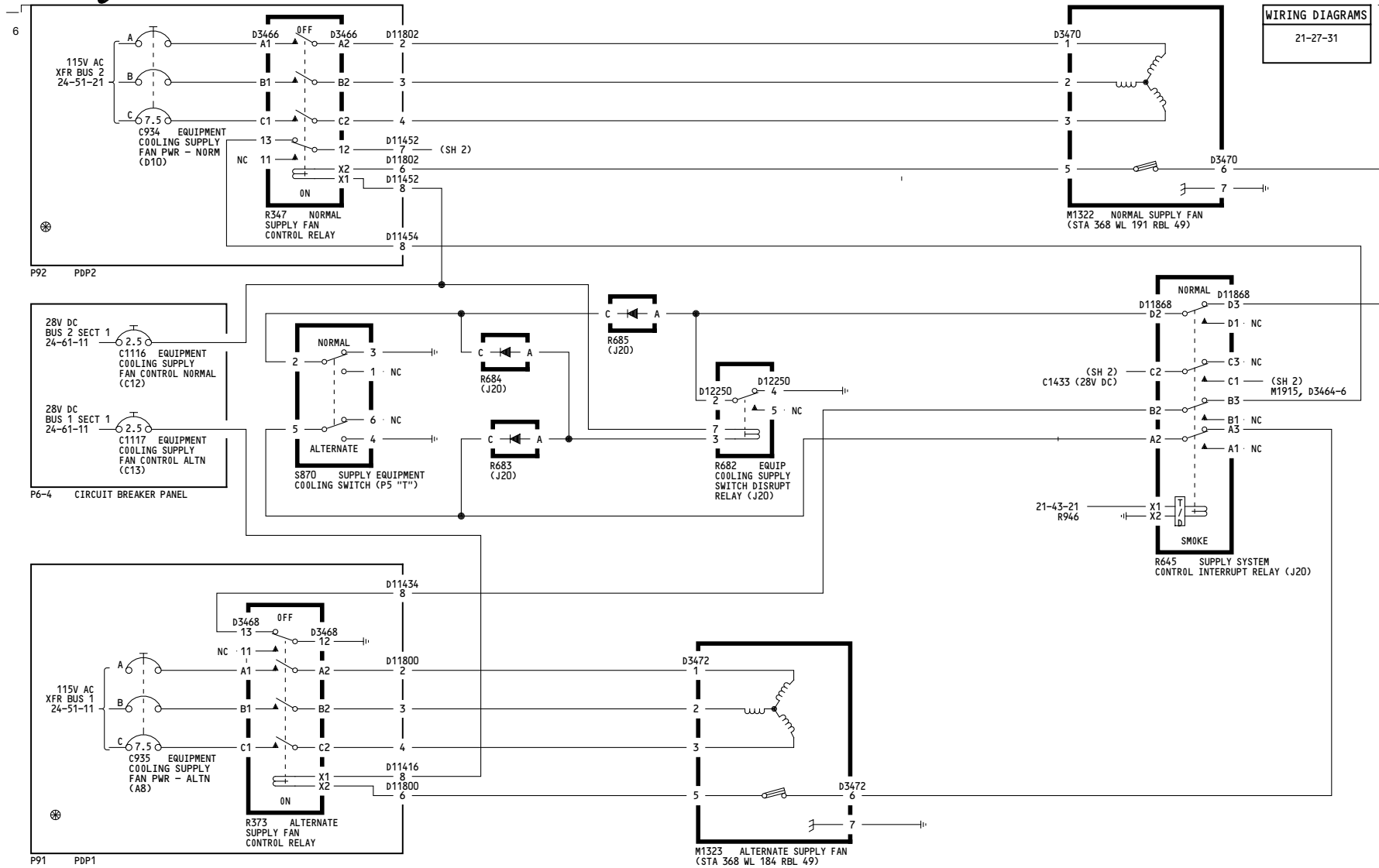
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YC001-YC030	<p align="center"><b>EQUIPMENT COOLING - SUPPLY</b></p> <p align="center">D280A203</p>
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**21-27-31**

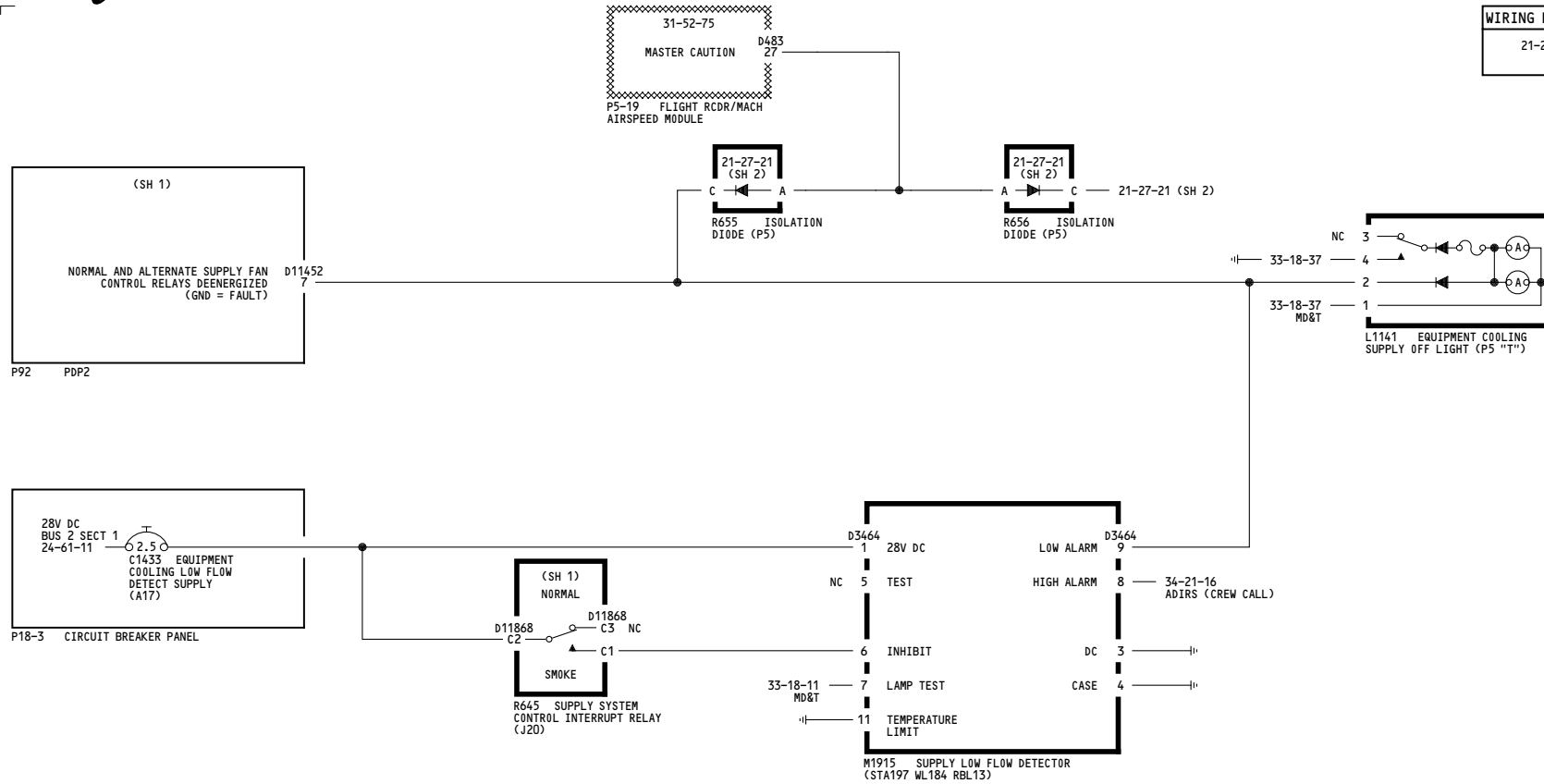
WIRING DIAGRAMS  
21-27-31



YC031-YC050, YK907-YM670	<b>EQUIPMENT COOLING - SUPPLY</b>
	D280A203

**21-27-31**

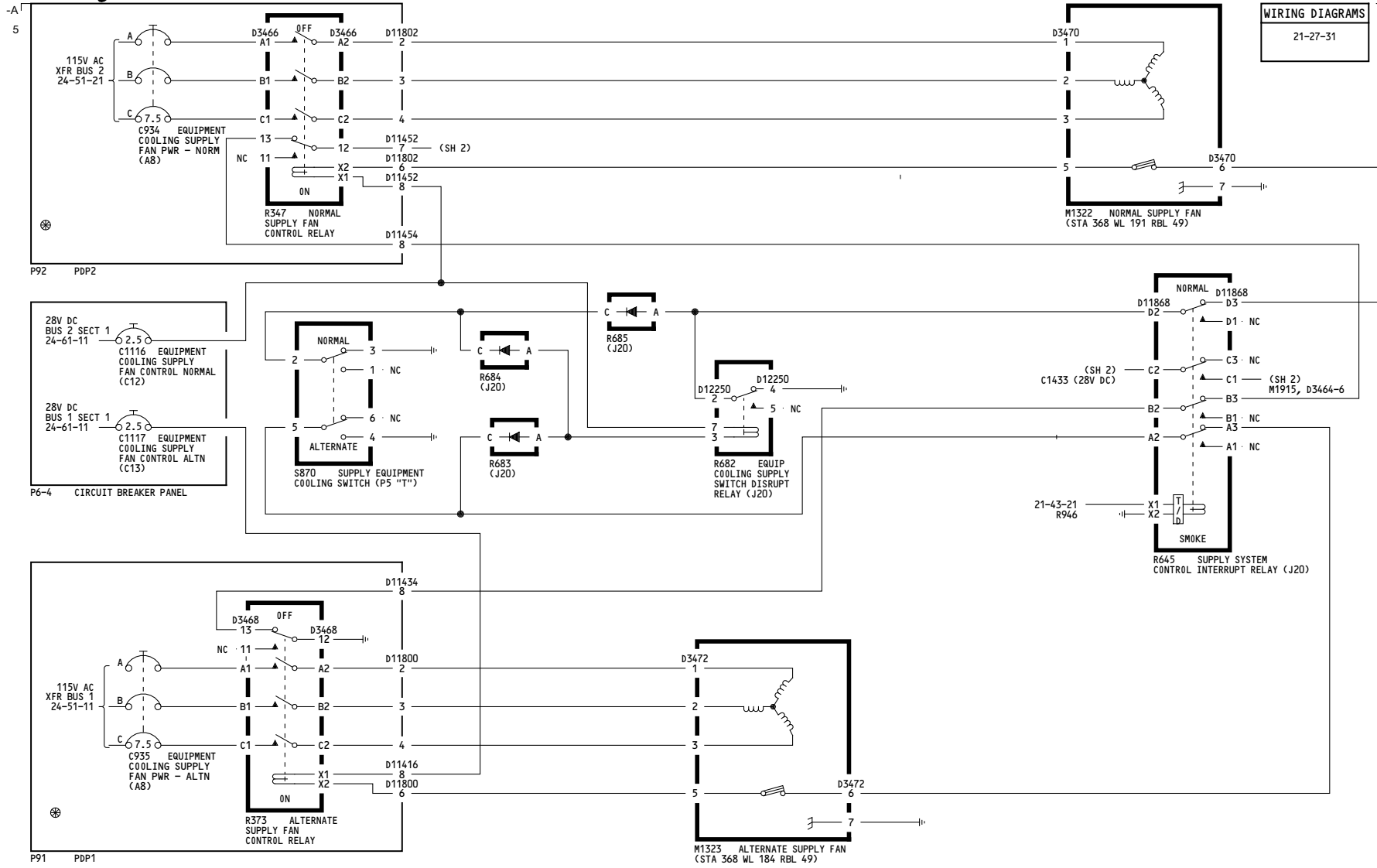
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YC031-YC050, YK907-YM670	<b>EQUIPMENT COOLING - SUPPLY</b>  D280A203
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**21-27-31**

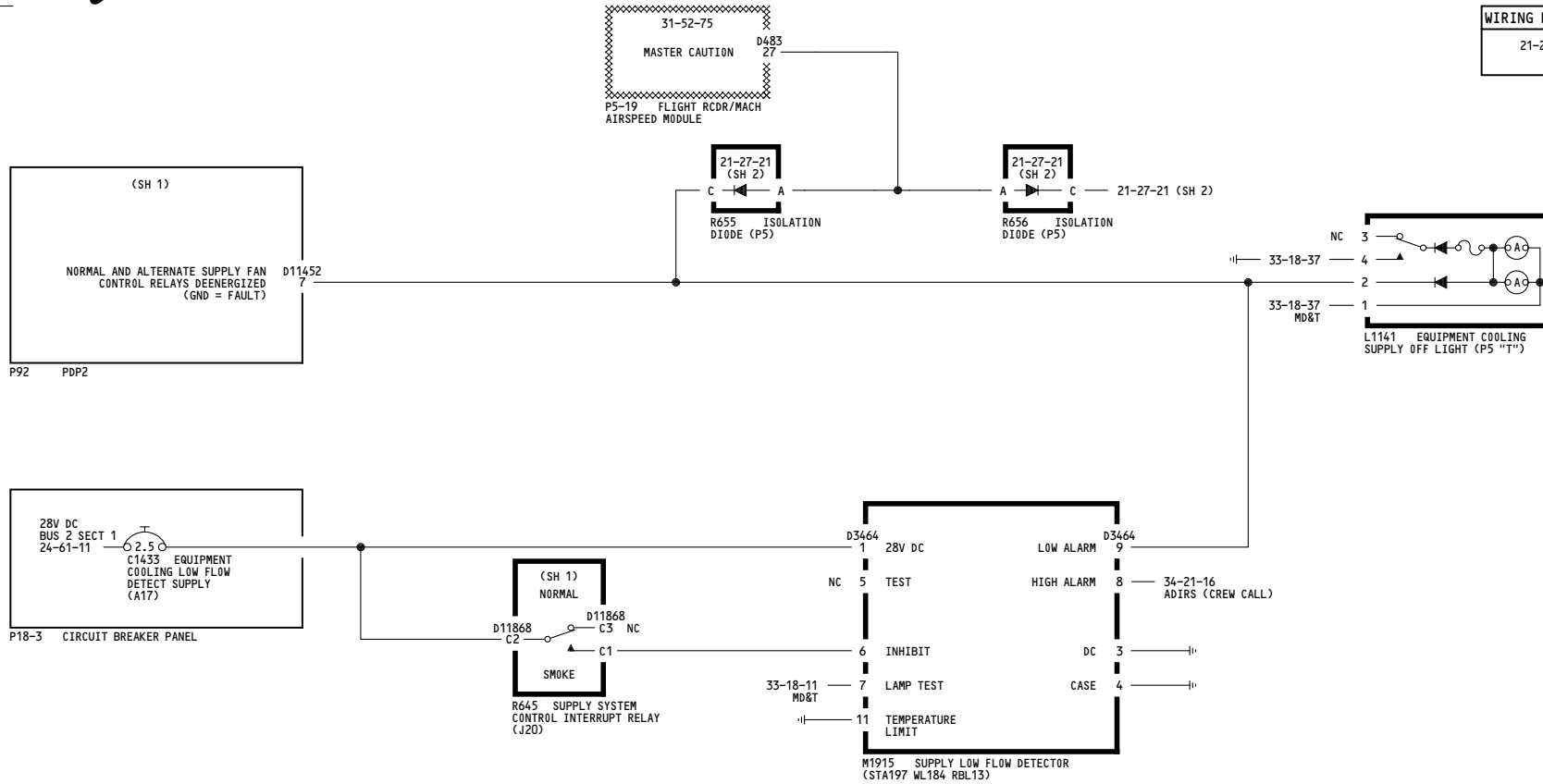
WIRING DIAGRAMS  
21-27-31



YK901-YK906	<b>EQUIPMENT COOLING - SUPPLY</b>  D280A203
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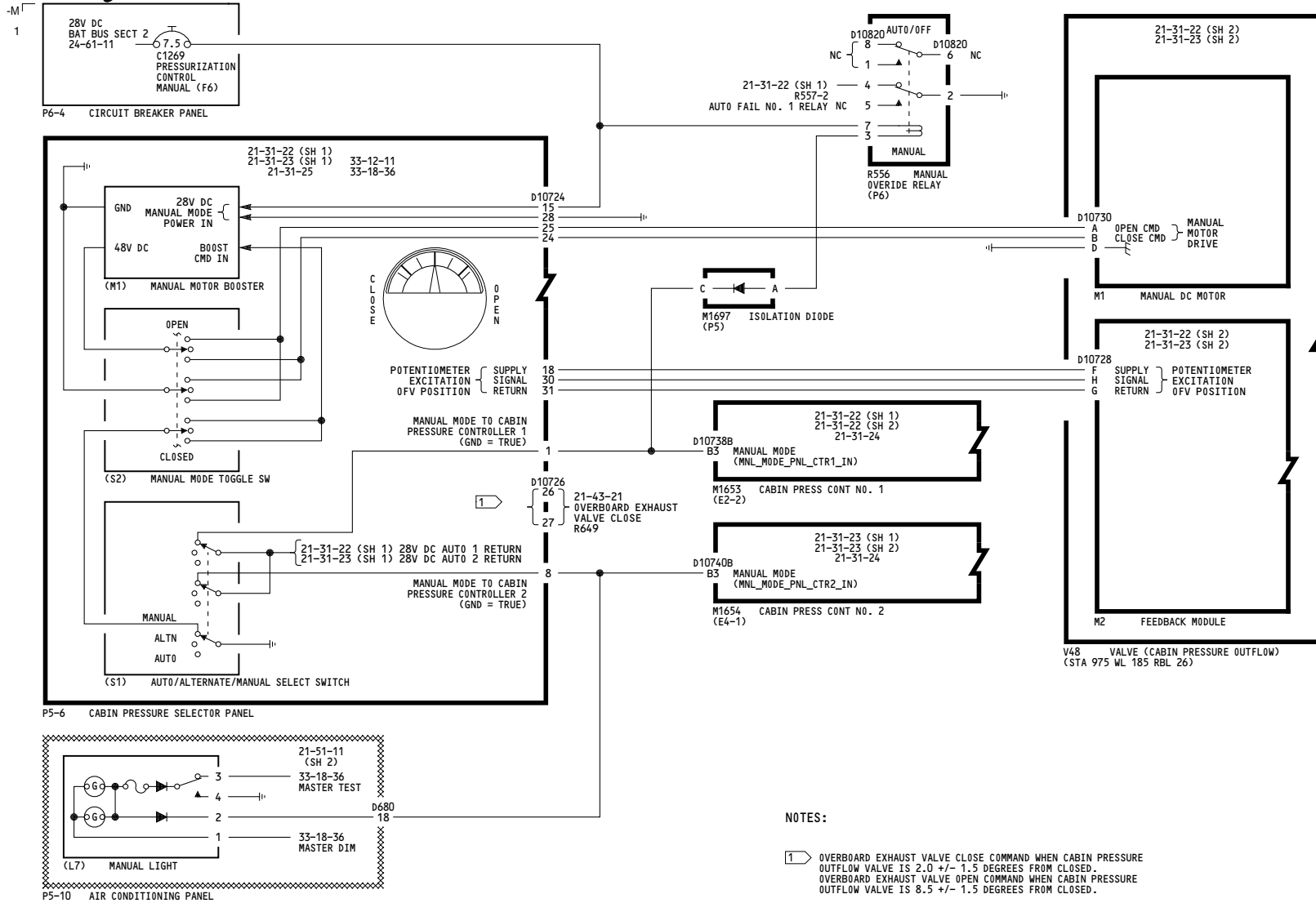
21-27-31

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YK901-YK906	<p><b>EQUIPMENT COOLING - SUPPLY</b></p> <p>D280A203</p>
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**21-27-31**



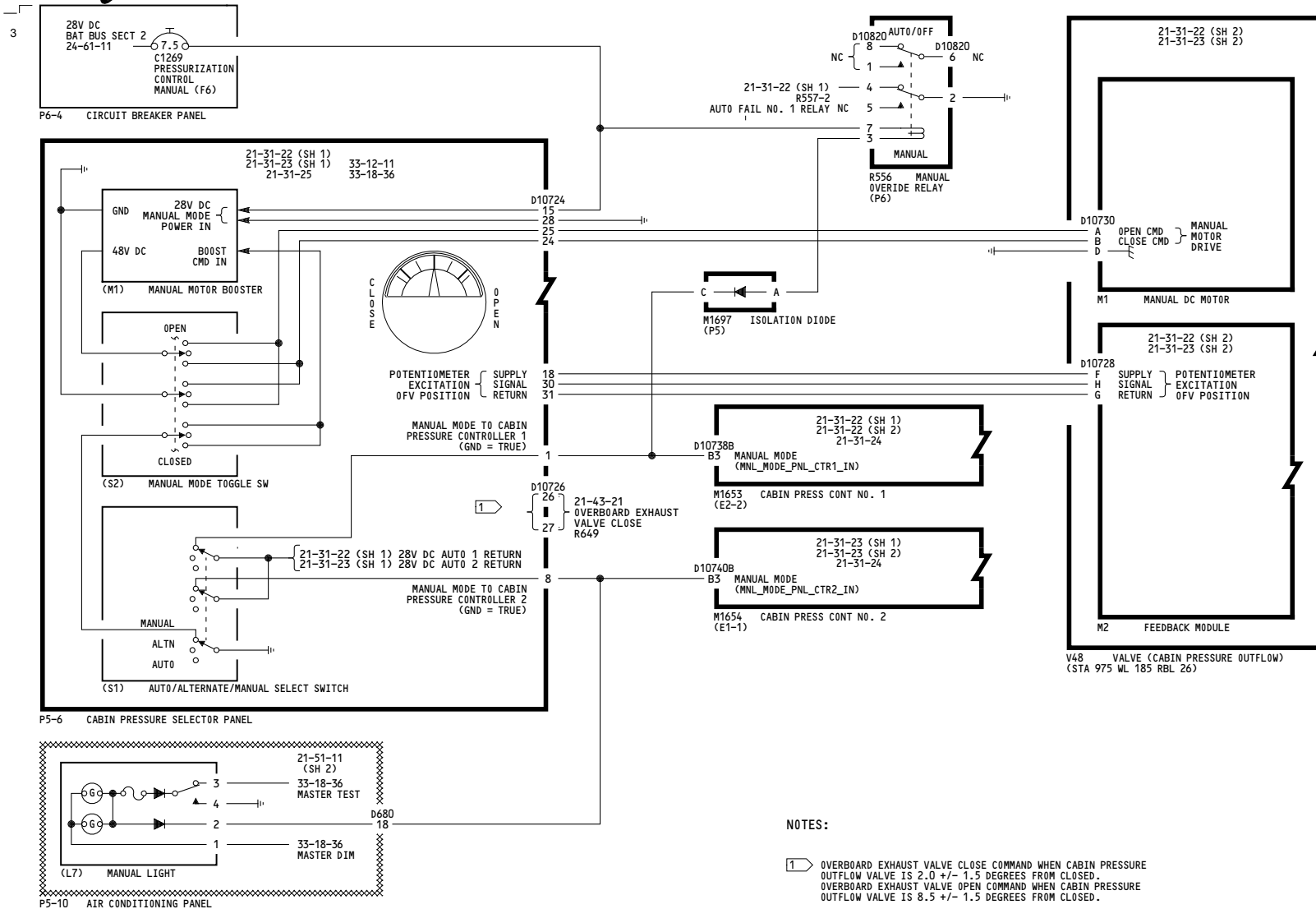
**NOTES:**

① OVERBOARD EXHAUST VALVE CLOSE COMMAND WHEN CABIN PRESSURE OUTFLOW VALVE IS 2.0 +/- 1.5 DEGREES FROM CLOSED.  
OVERBOARD EXHAUST VALVE OPEN COMMAND WHEN CABIN PRESSURE OUTFLOW VALVE IS 8.5 +/- 1.5 DEGREES FROM CLOSED.

<p>YC001-YC030</p>	<p><b>PRESSURIZATION CONTROL MANUAL MODE</b></p> <p>D280A203</p>
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WIRING DIAGRAMS  
21-31-11



YC031-YM670

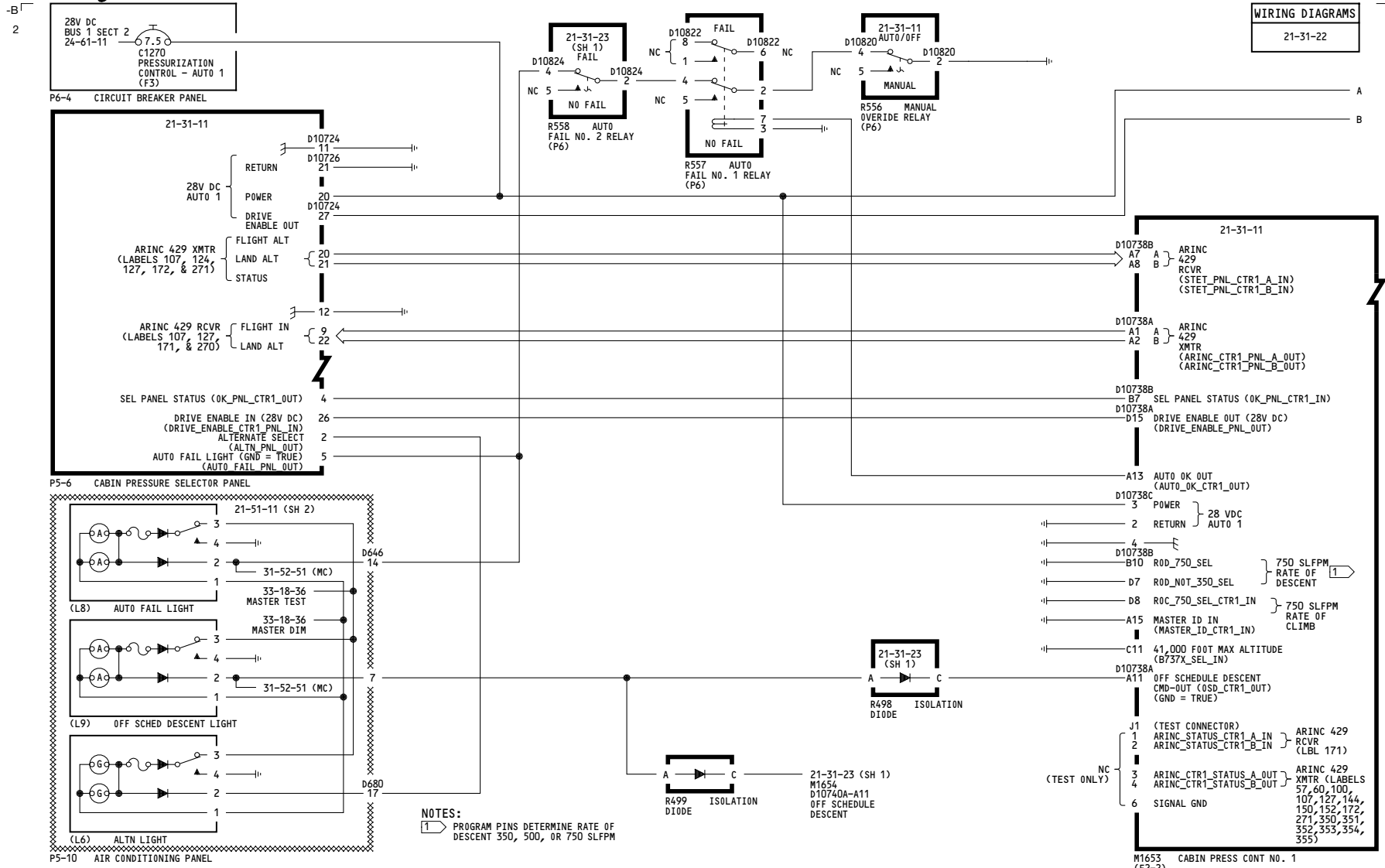
**PRESSURIZATION CONTROL  
MANUAL MODE**

D280A203

**21-31-11**

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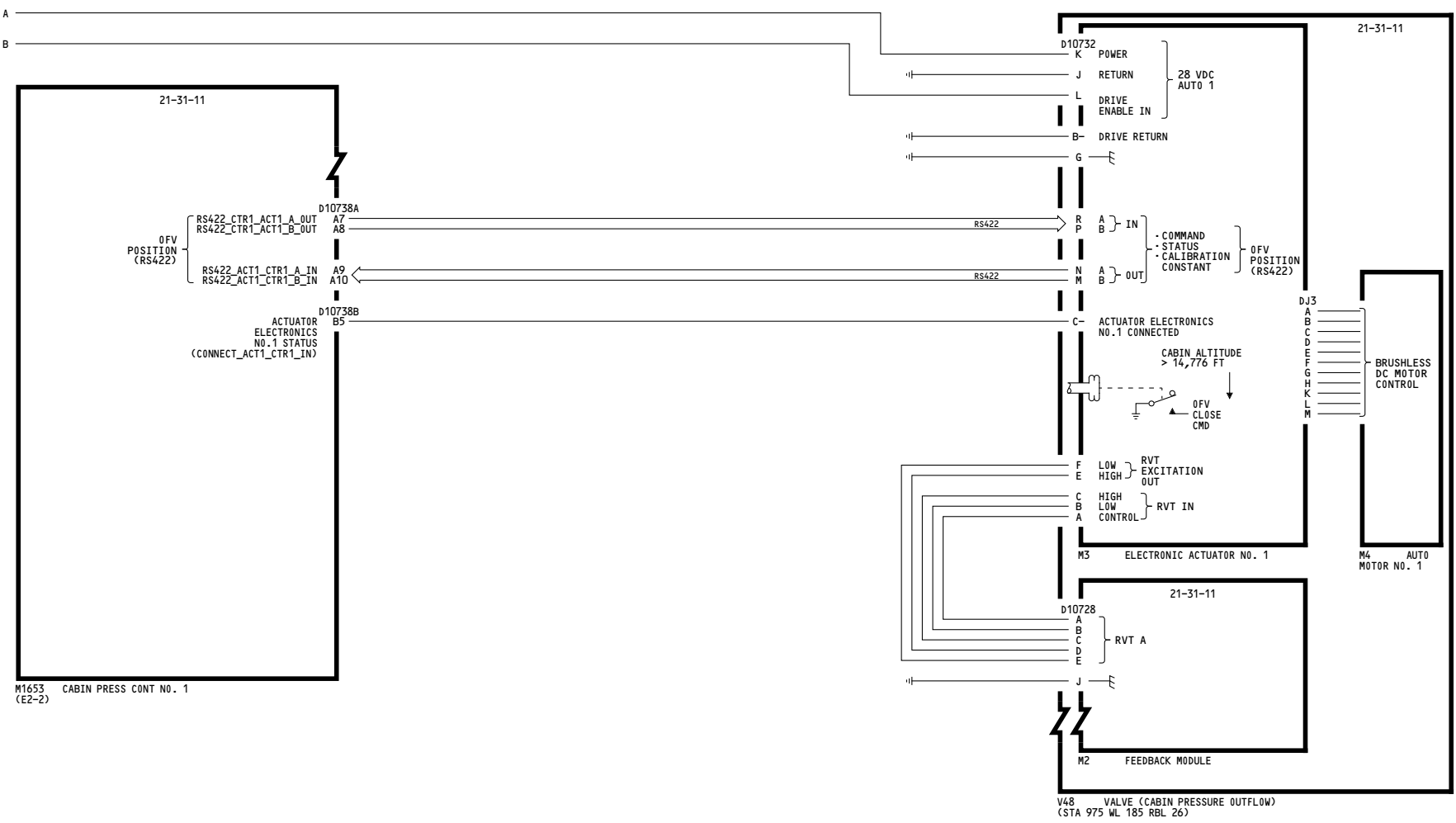
YC001-YC026

**PRESSURIZATION CONTROL AUTO 1**

D280A203

**21-31-22**

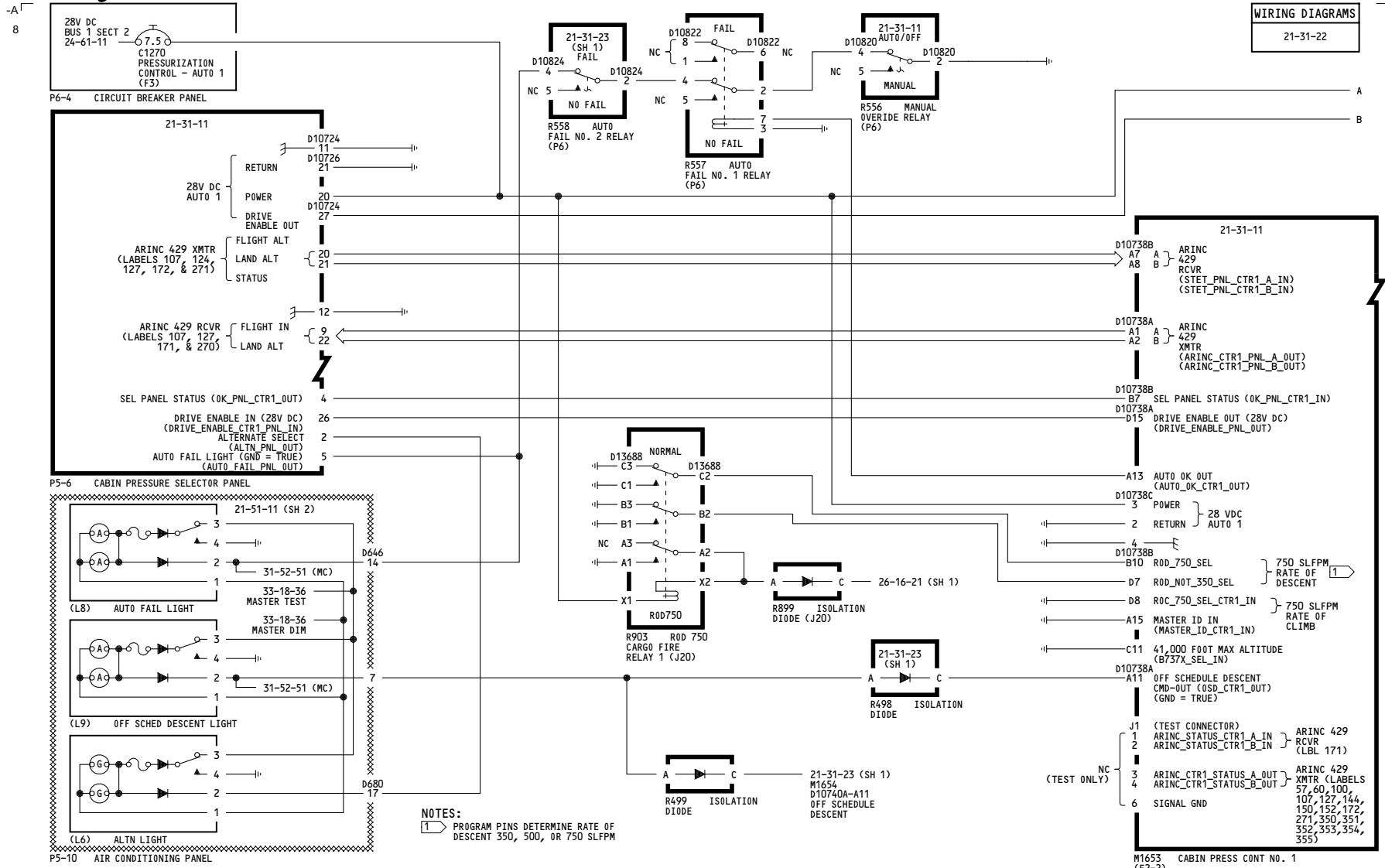
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YC001-YC026	<p align="center"><b>PRESSURIZATION CONTROL AUTO 1</b></p> <p align="center">D280A203</p>
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**21-31-22**

**WIRING DIAGRAMS**  
21-31-22



**NOTES:**  
 [1] PROGRAM PINS DETERMINE RATE OF DESCENT 350, 500, OR 750 SLFPM

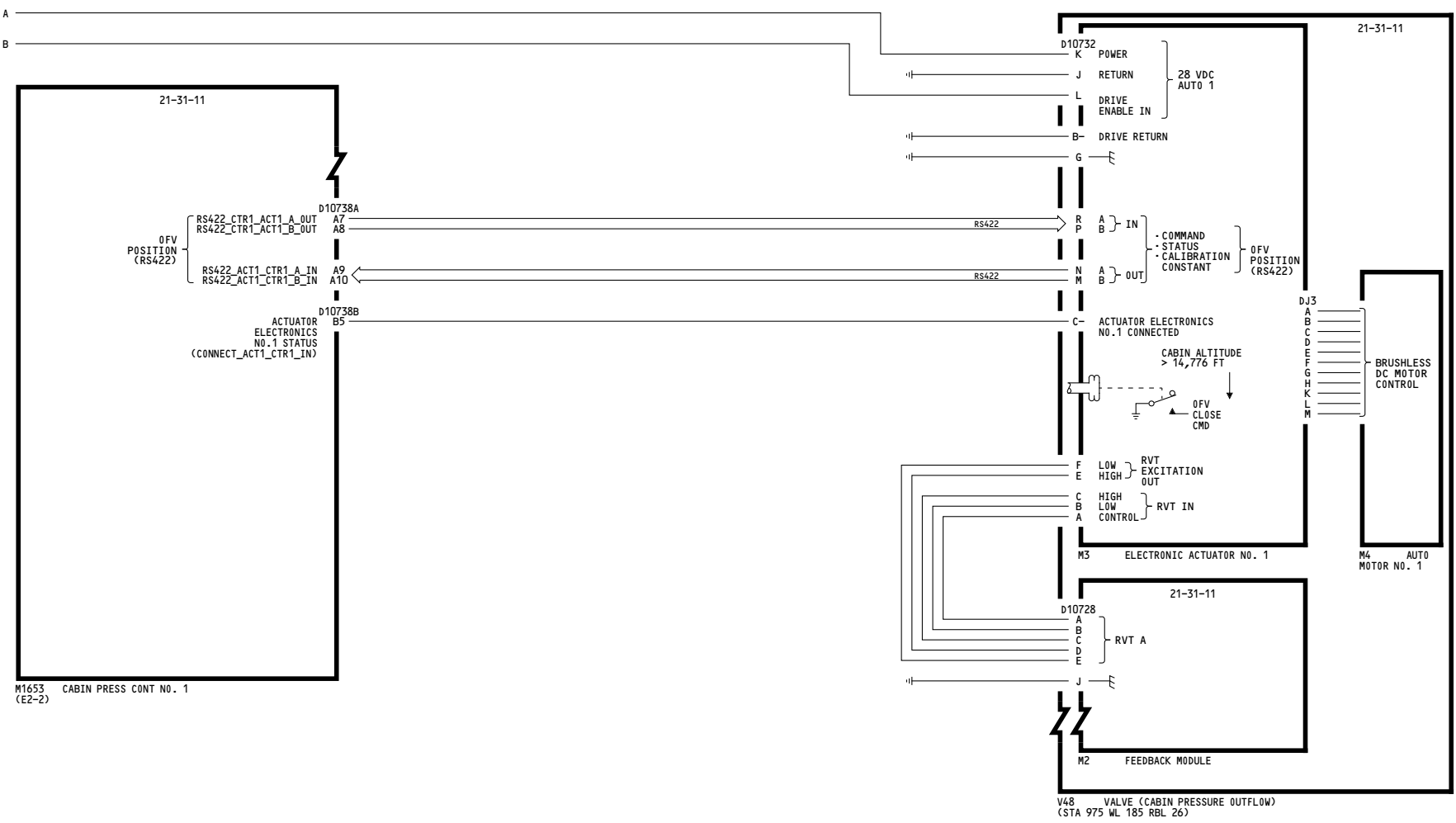
YC028-YM670

**PRESSURIZATION CONTROL  
AUTO 1**

D280A203

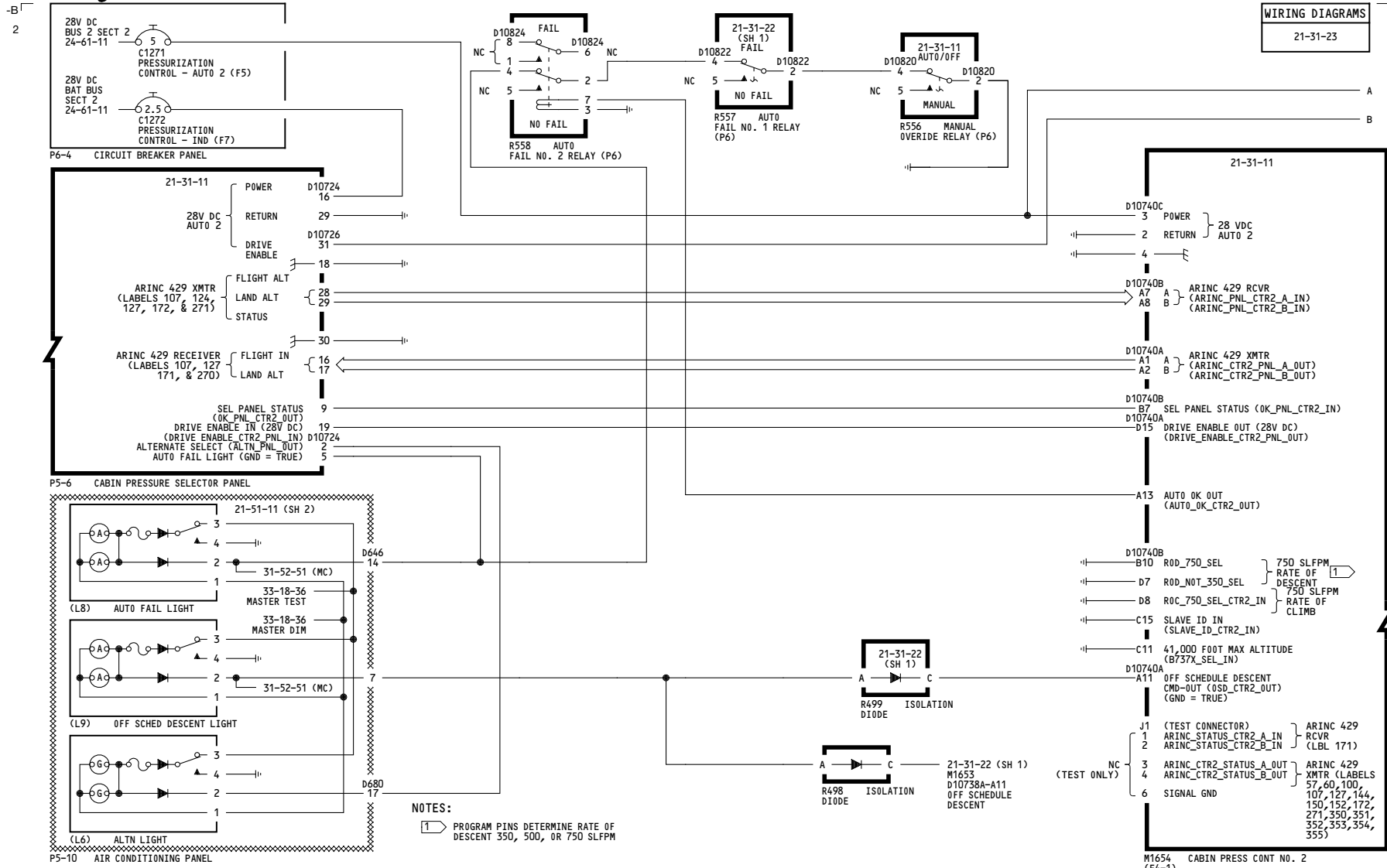
**21-31-22**

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<p>YC028-YM670</p>	<p><b>PRESSURIZATION CONTROL AUTO 1</b></p> <p>D280A203</p>
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**21-31-22**



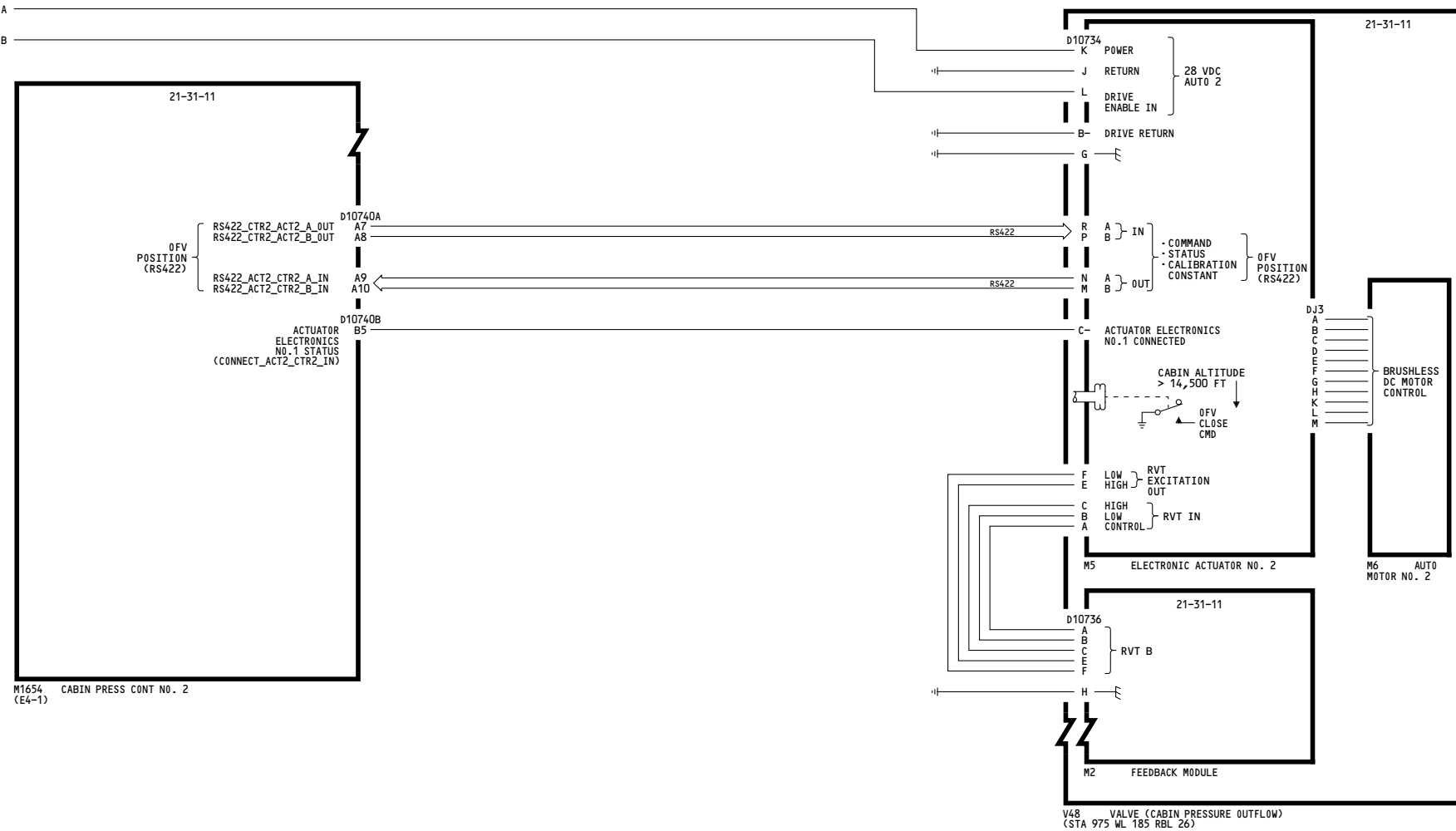
YCO01-YCO26

**PRESSURIZATION CONTROL  
AUTO 2**

D280A203

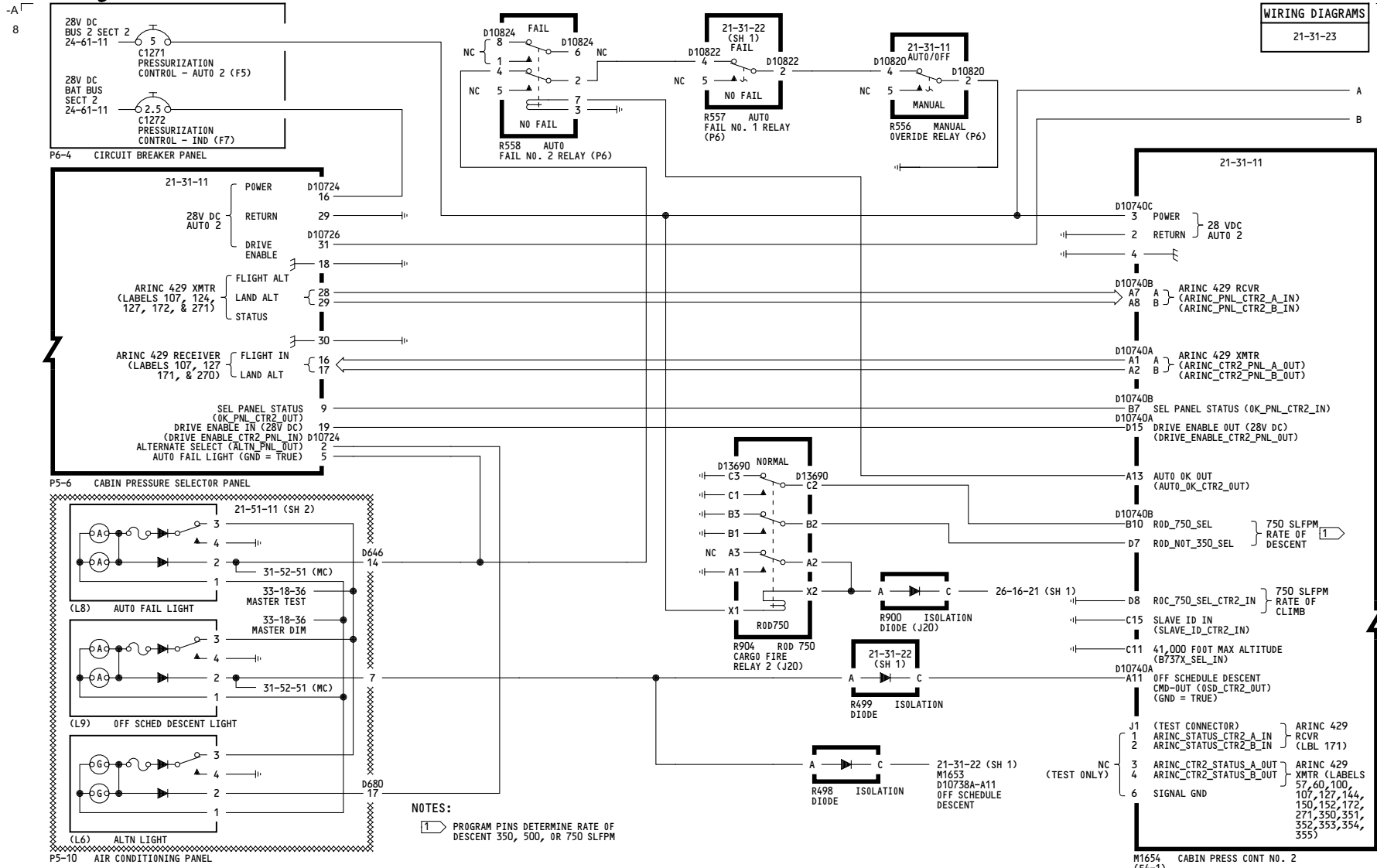
**21-31-23**

-F  
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<p>YC001-YC026</p>	<p><b>PRESSURIZATION CONTROL AUTO 2</b></p> <p>D280A203</p>
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**21-31-23**



YC028-YC030

**PRESSURIZATION CONTROL AUTO 2**

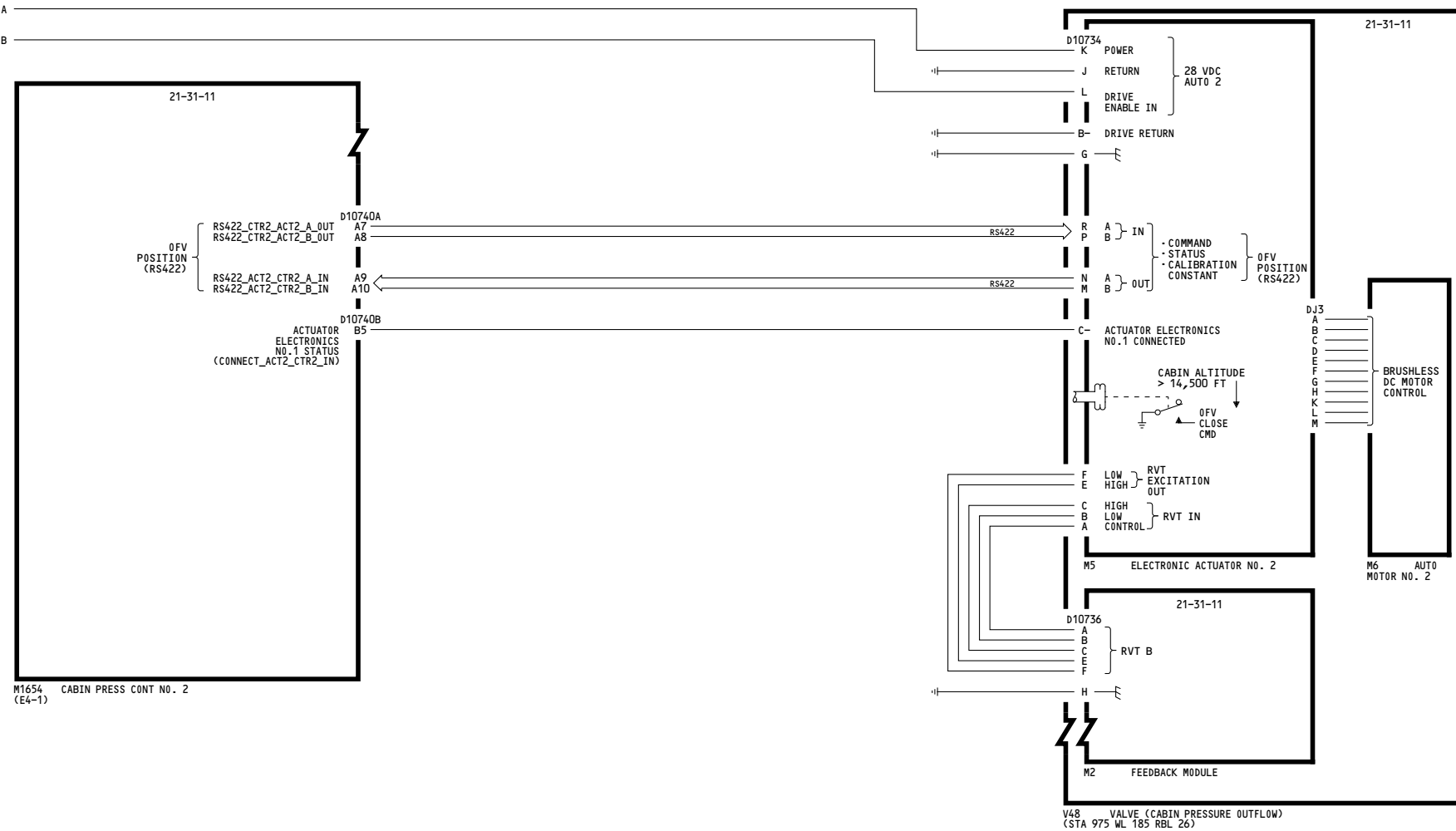
D280A203

M1654 CABIN PRESS CONT NO. 2 (E4-1)

**21-31-23**



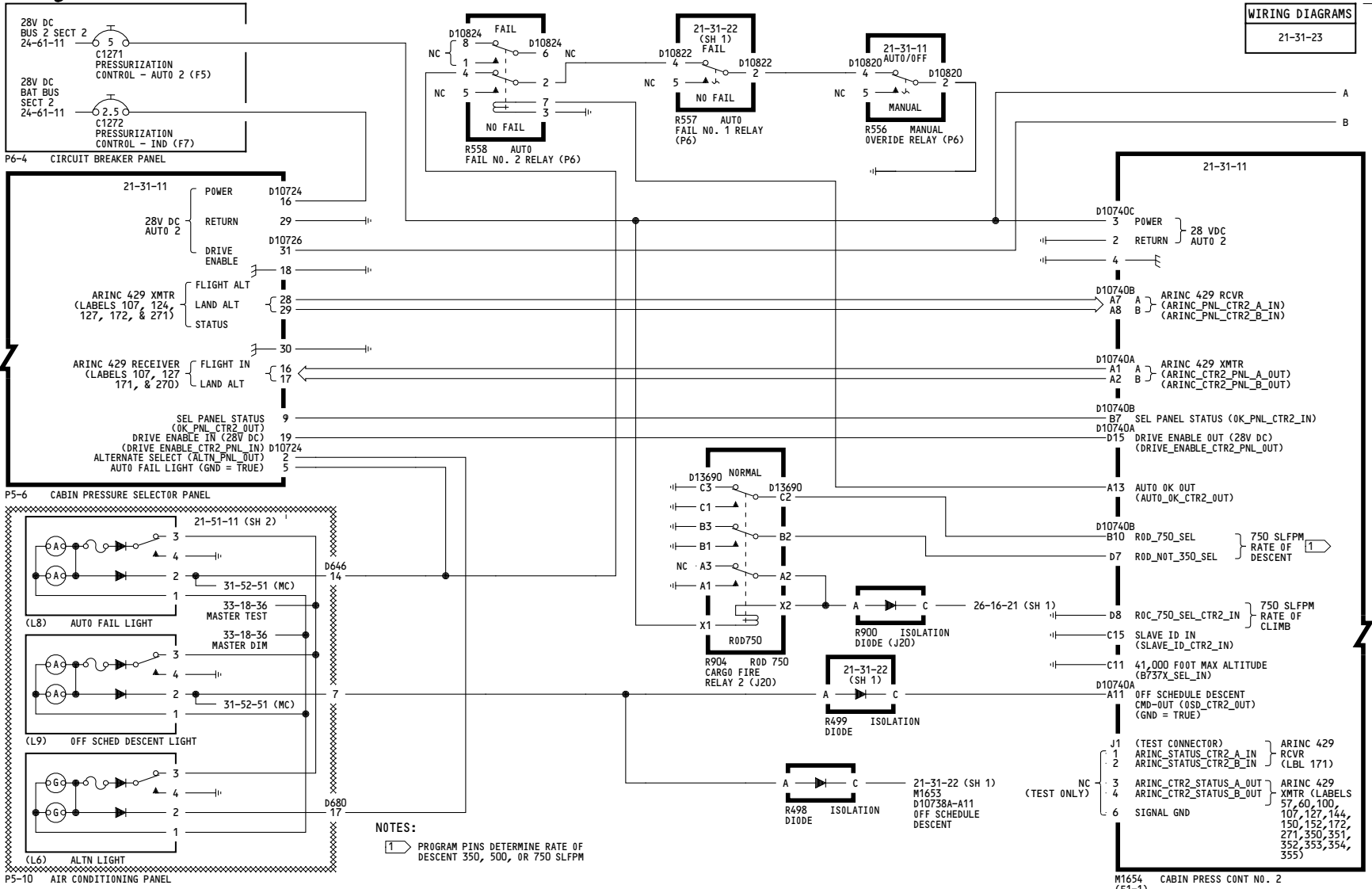
-F  
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<p>YC028-YC030</p>	<p><b>PRESSURIZATION CONTROL AUTO 2</b></p> <p>D280A203</p>
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**21-31-23**

15



**NOTES:**  
 1 PROGRAM PINS DETERMINE RATE OF DESCENT 350, 500, OR 750 SLFPM

YC031-YM670

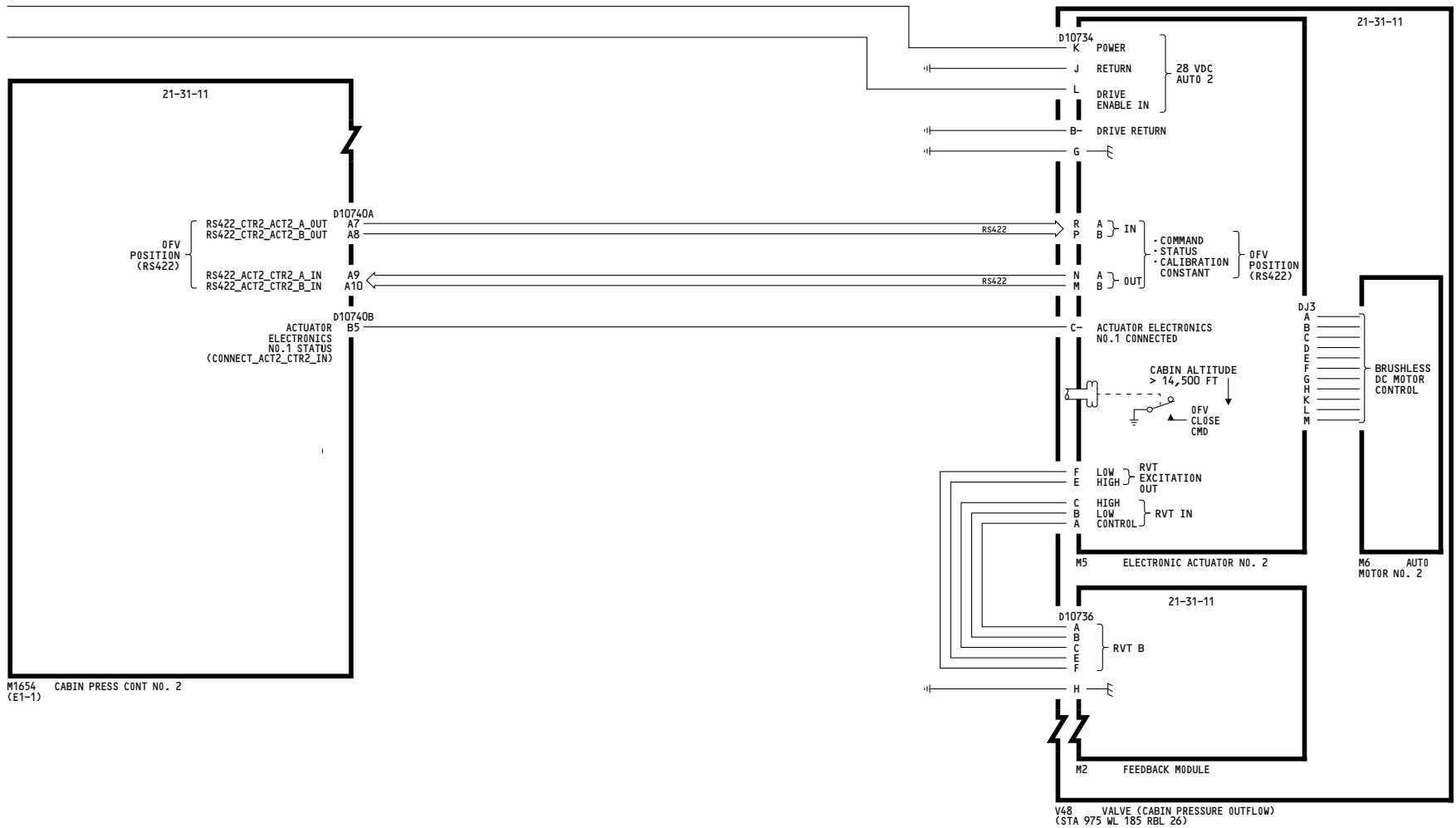
**PRESSURIZATION CONTROL AUTO 2**

D280A203

M1654 CABIN PRESS CONT NO. 2 (E1-1)

**21-31-23**

2

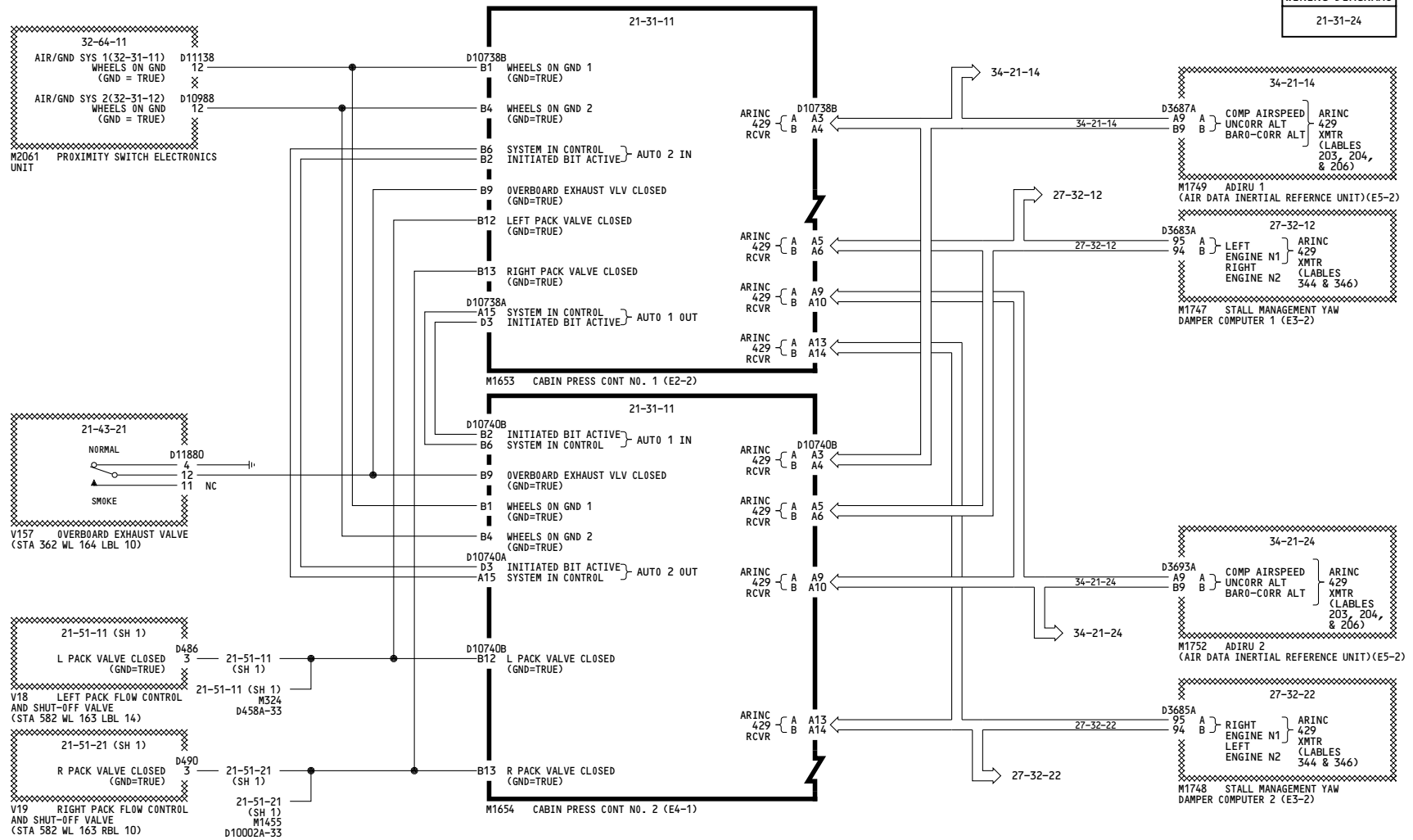


<p>YC031-YM670</p>	<p align="center"><b>PRESSURIZATION CONTROL AUTO 2</b></p> <p align="center">D280A203</p>
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**21-31-23**

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Sheet 2  
Feb 09/2009

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2

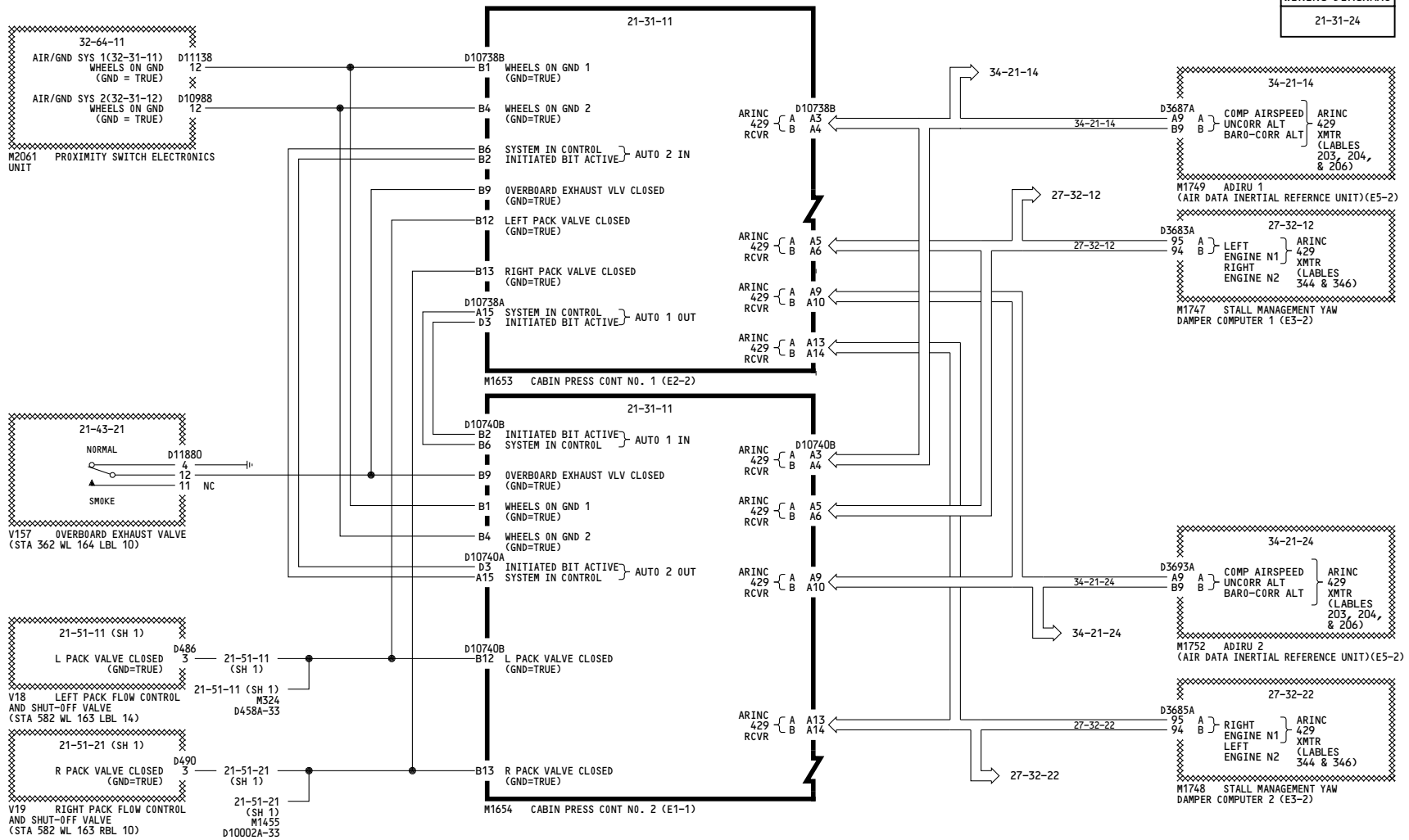


YC001-YC030

**PRESSURIZATION CONTROL  
AUTO CHANNEL INTERFACES**

D280A203

6



YC031-YK912, YK918-YK919, YL401-YL429

**PRESSURIZATION CONTROL  
AUTO CHANNEL INTERFACES**

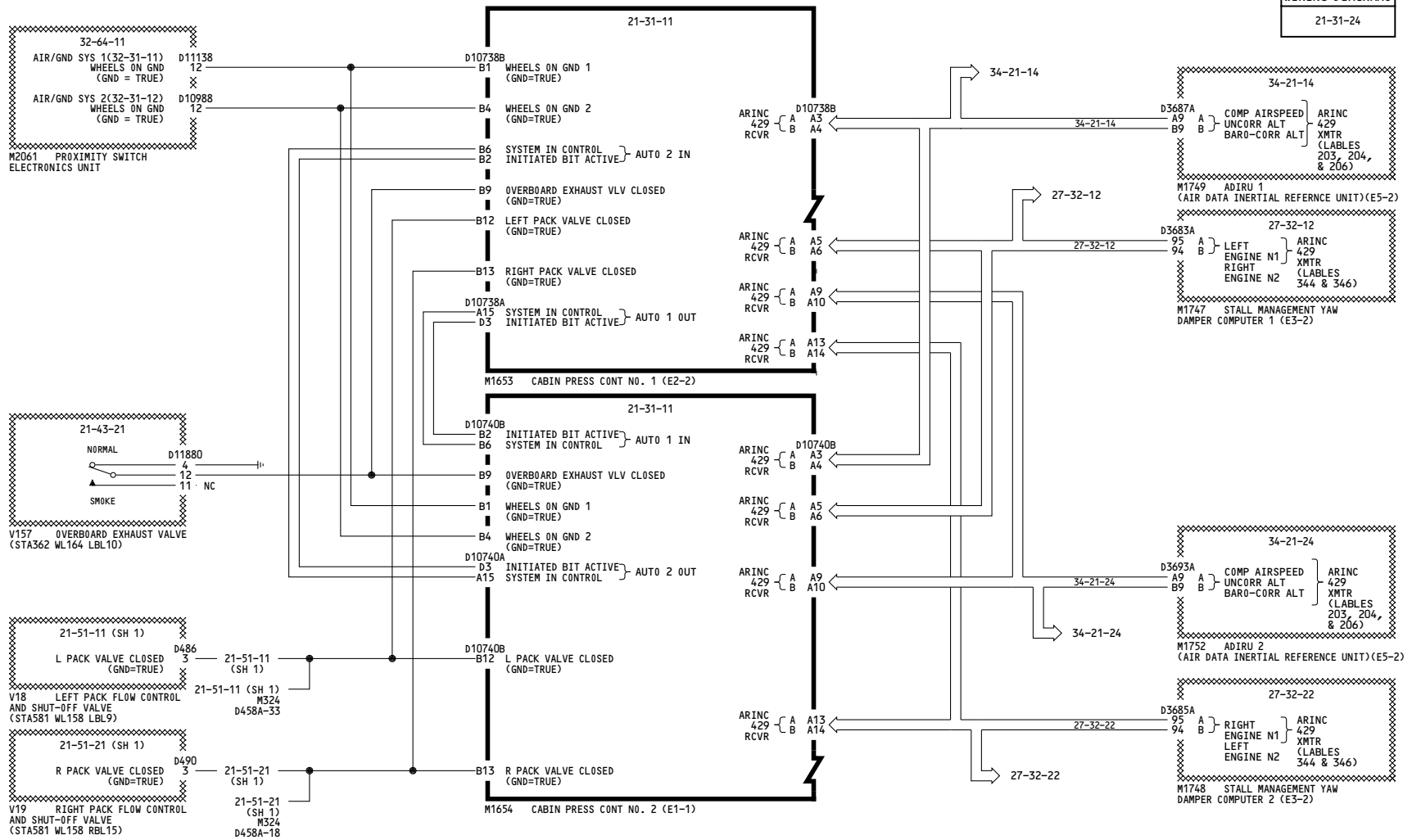
D280A203

**21-31-24**

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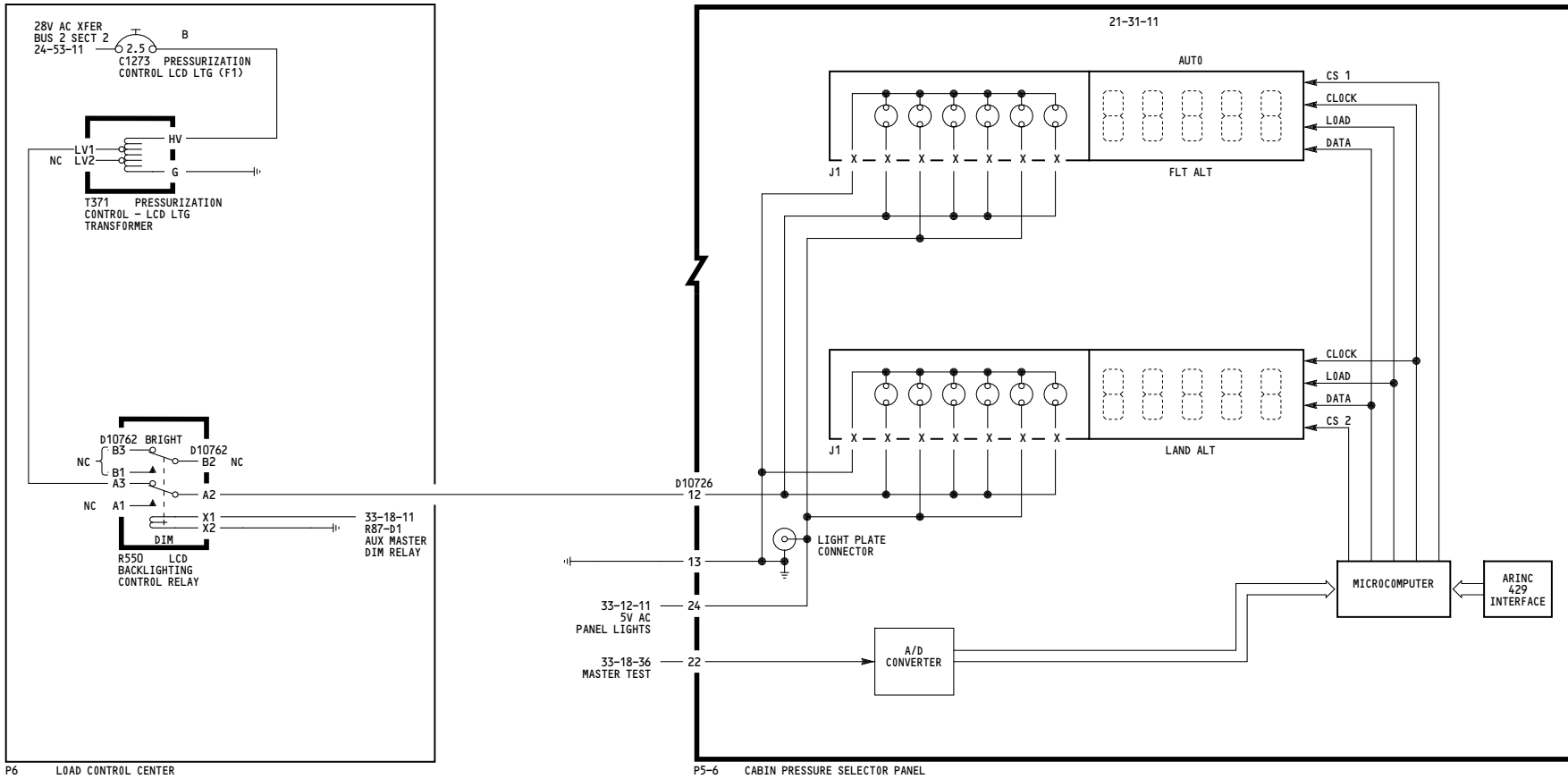
May 11/2009

5



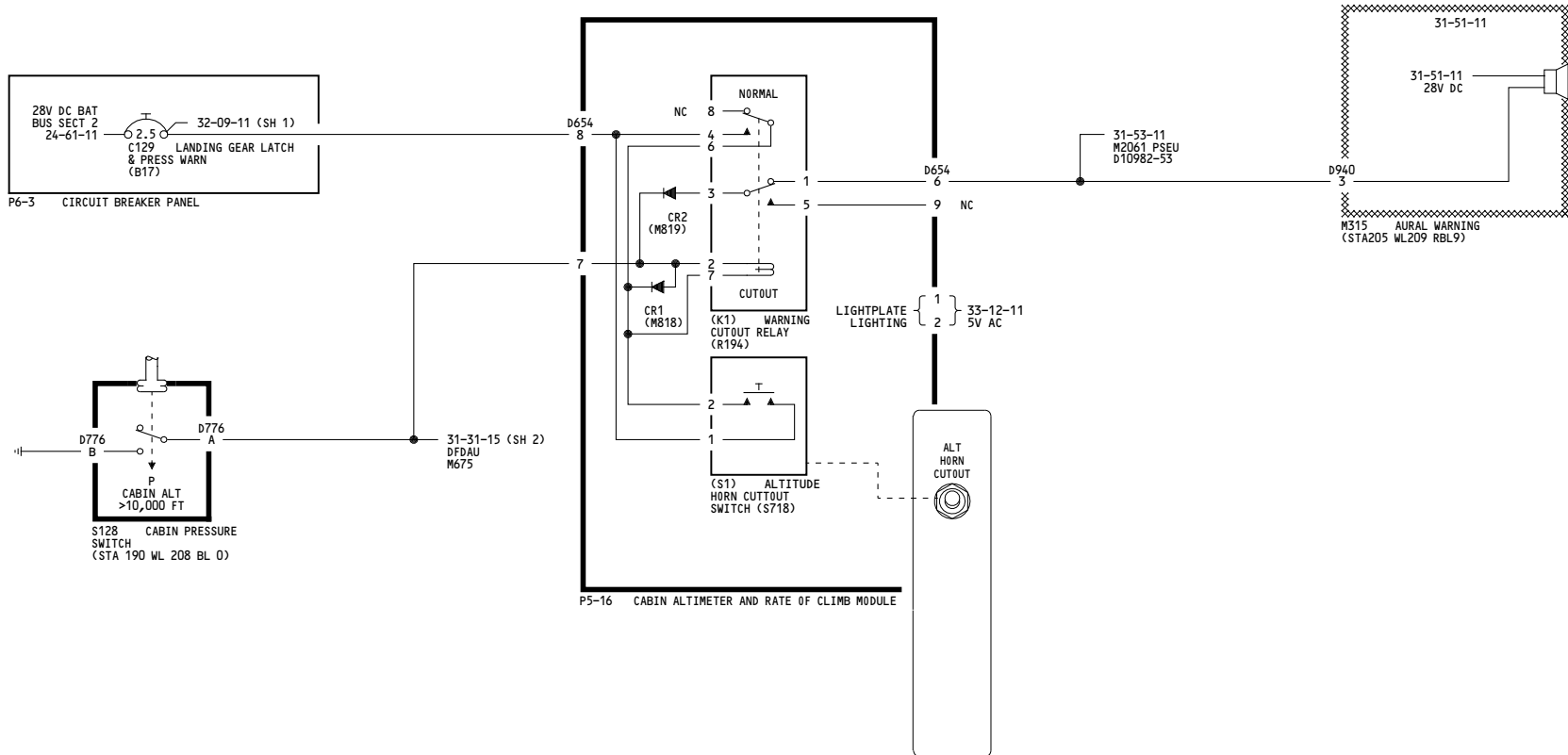
YM643-YM652	<p><b>PRESSURIZATION CONTROL AUTO CHANNEL INTERFACES</b></p> <p>D280A203</p>
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-F-  
1



ALL	<b>PRESSURIZATION CONTROL LCD LIGHTING</b>
	D280A203

1



YC001-YK910, YL421-YL423, YM643	<p align="center"><b>CABIN PRESSURE WARNING</b></p> <p align="center">D280A203</p>
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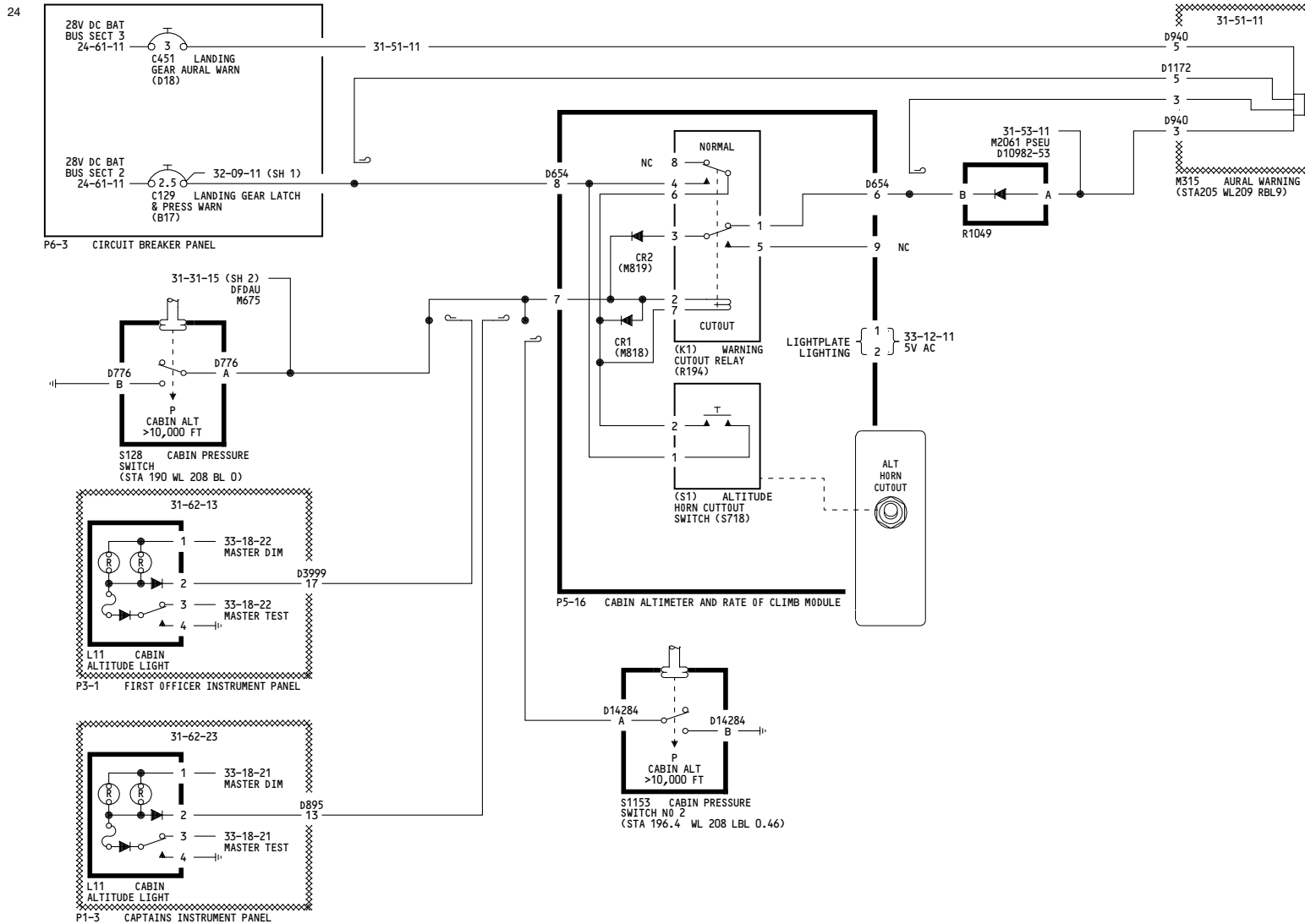
**21-33-11**

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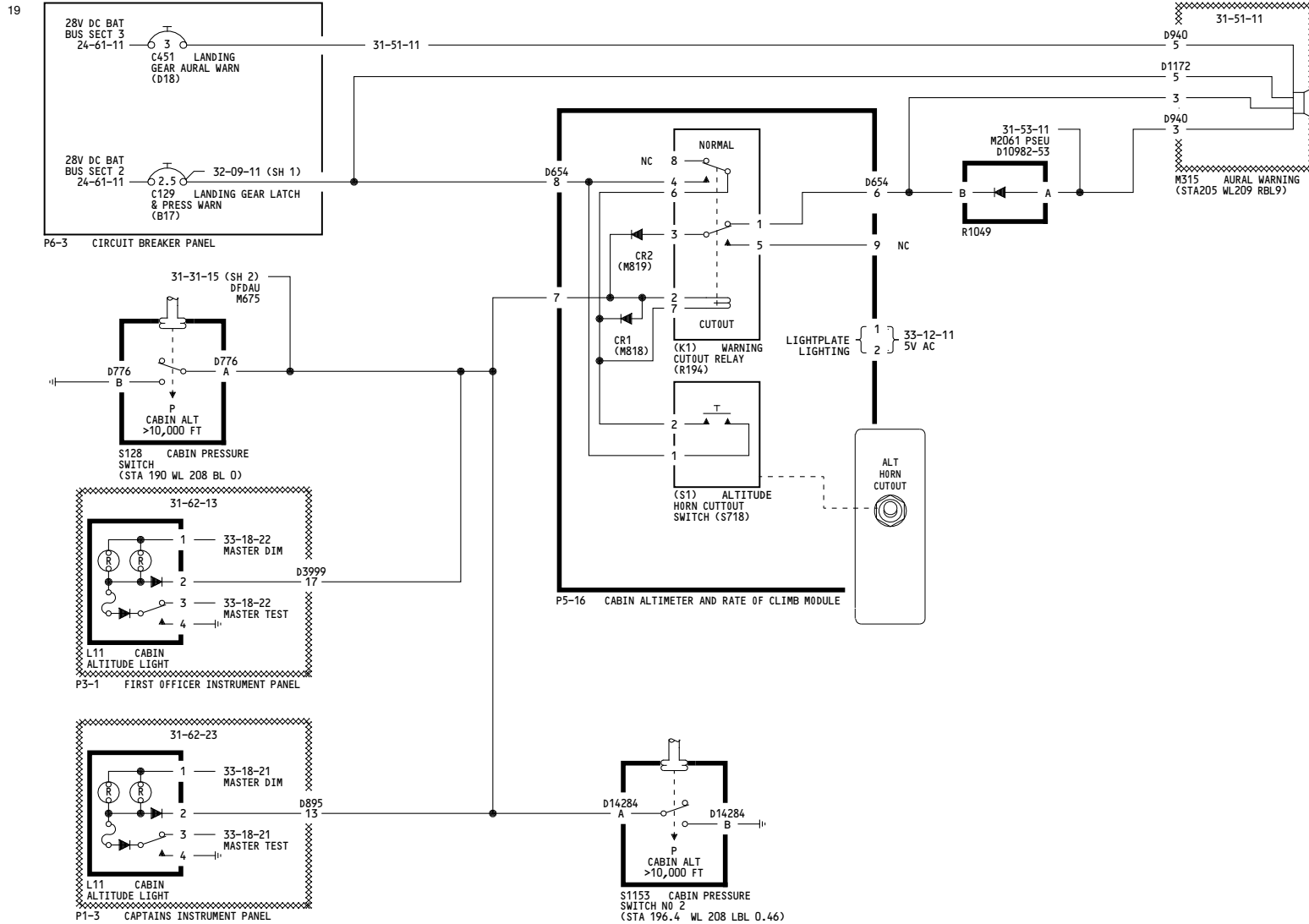
WIRING DIAGRAMS  
21-33-11



YK911, YM651	<b>CABIN PRESSURE WARNING</b>  D280A203
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**21-33-11**

**WIRING DIAGRAMS**  
21-33-11

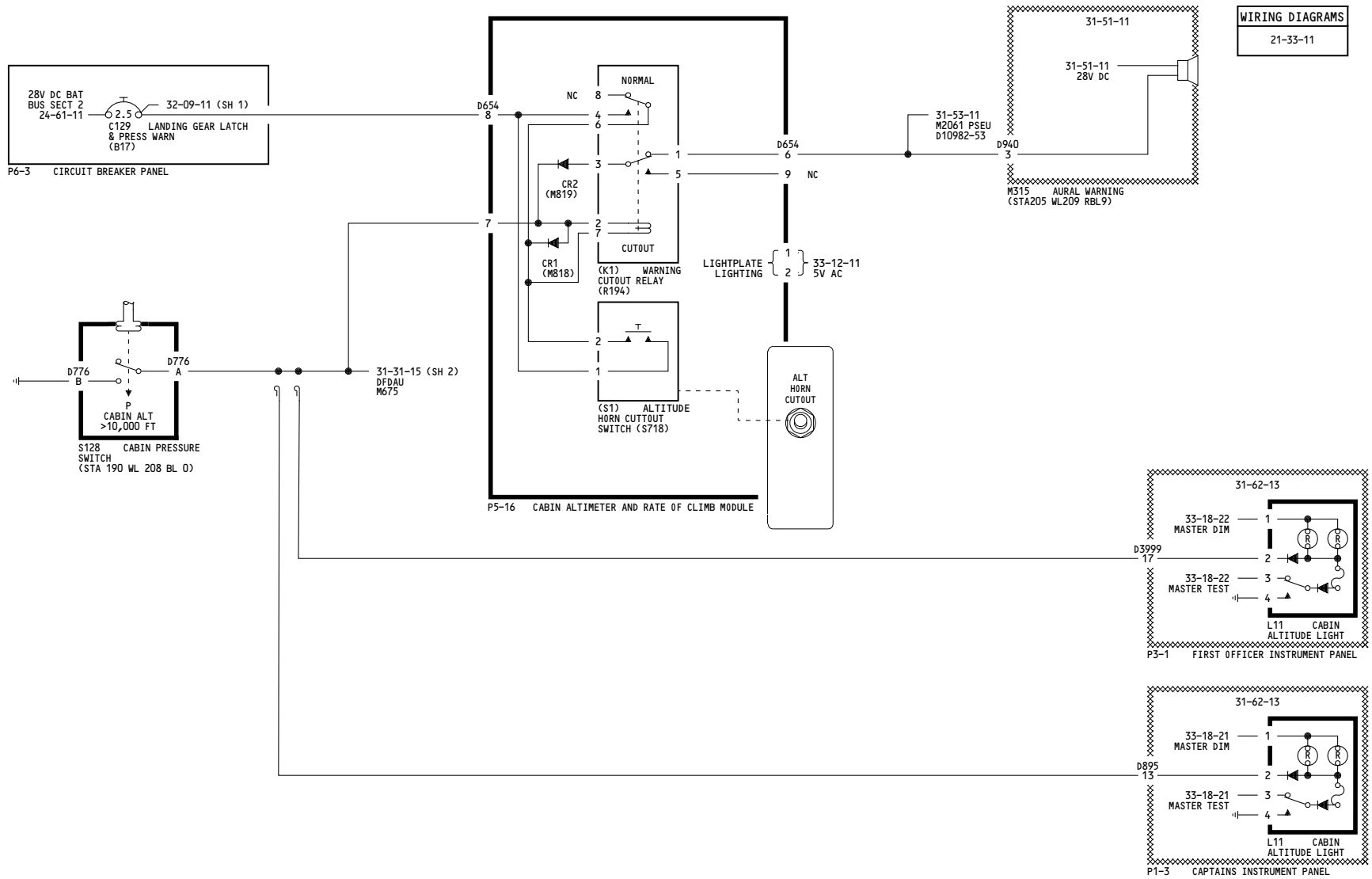


YK912-YK917, YK919-YL401, YL427-YL430, YM652-YM670

**CABIN PRESSURE WARNING**

D280A203

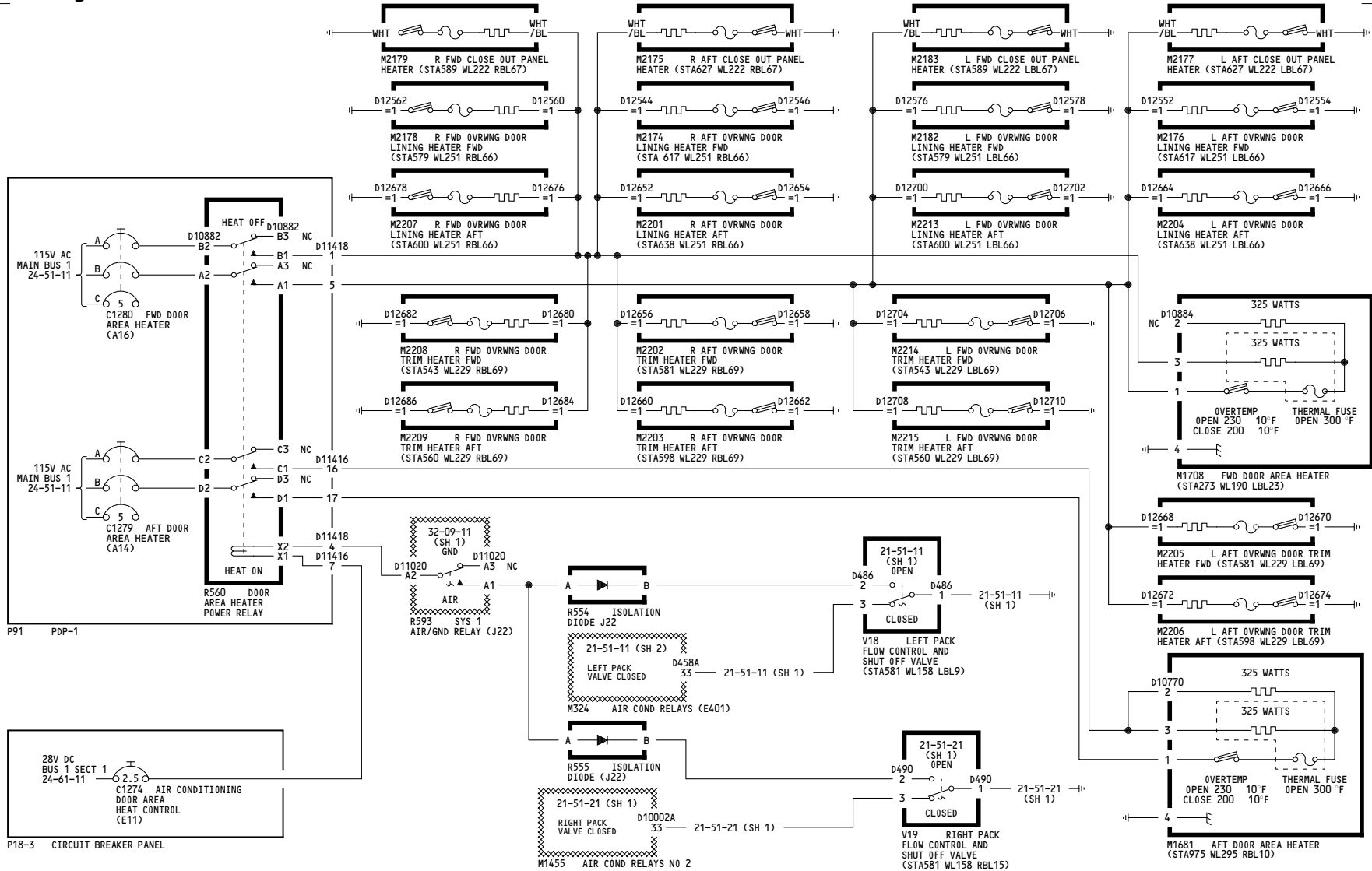
**21-33-11**



YK918, YL424-YL426, YM645-YM649	<b>CABIN PRESSURE WARNING</b>
	D280A203

**21-33-11**

-K  
2



YC001-YC028

**DOOR AREA HEATERS**

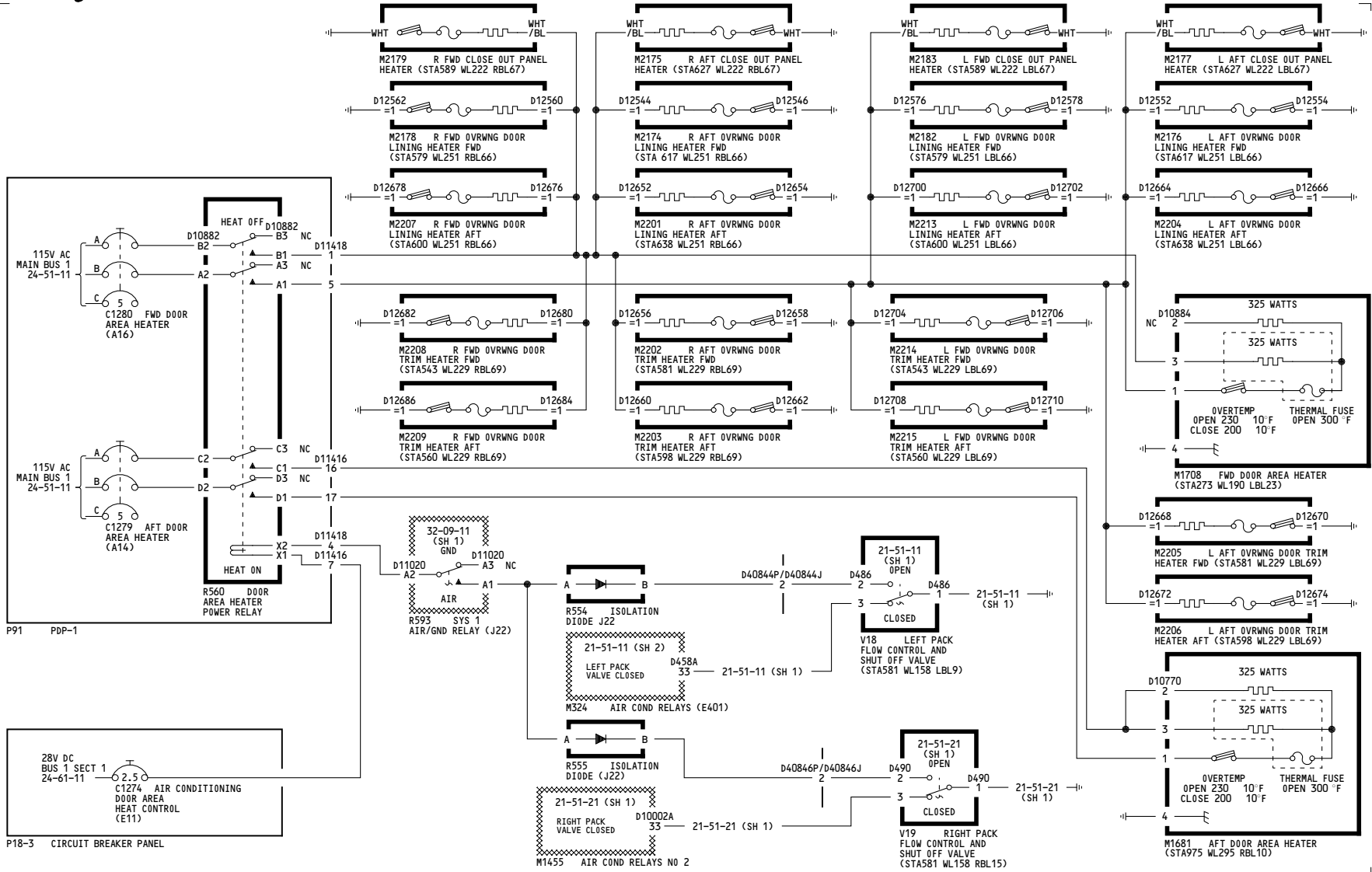
D280A203

21-42-11

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11



YC029-YC030, YK901-YK906

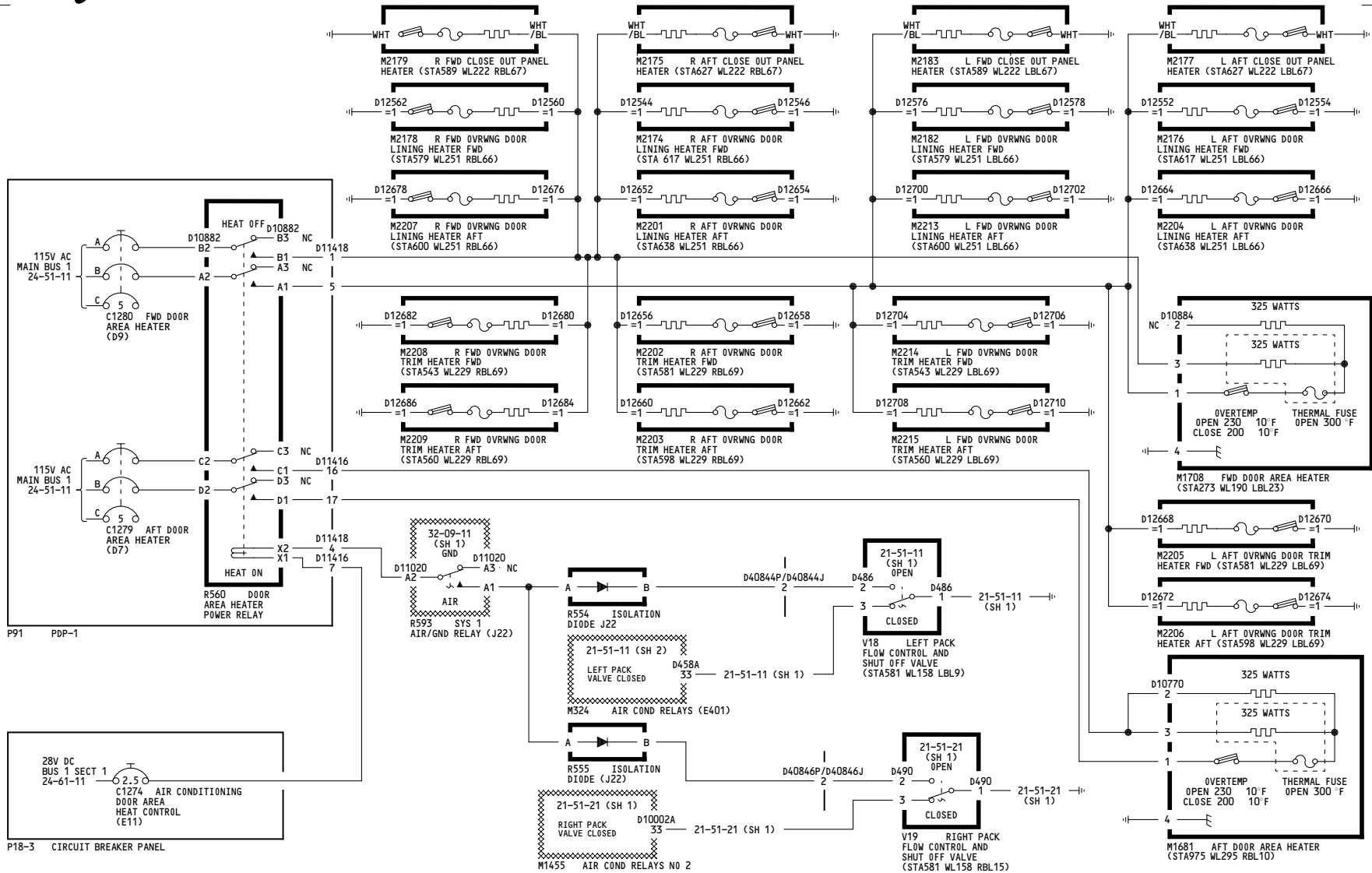
**DOOR AREA HEATERS**

D280A203

**21-42-11**

Page 102

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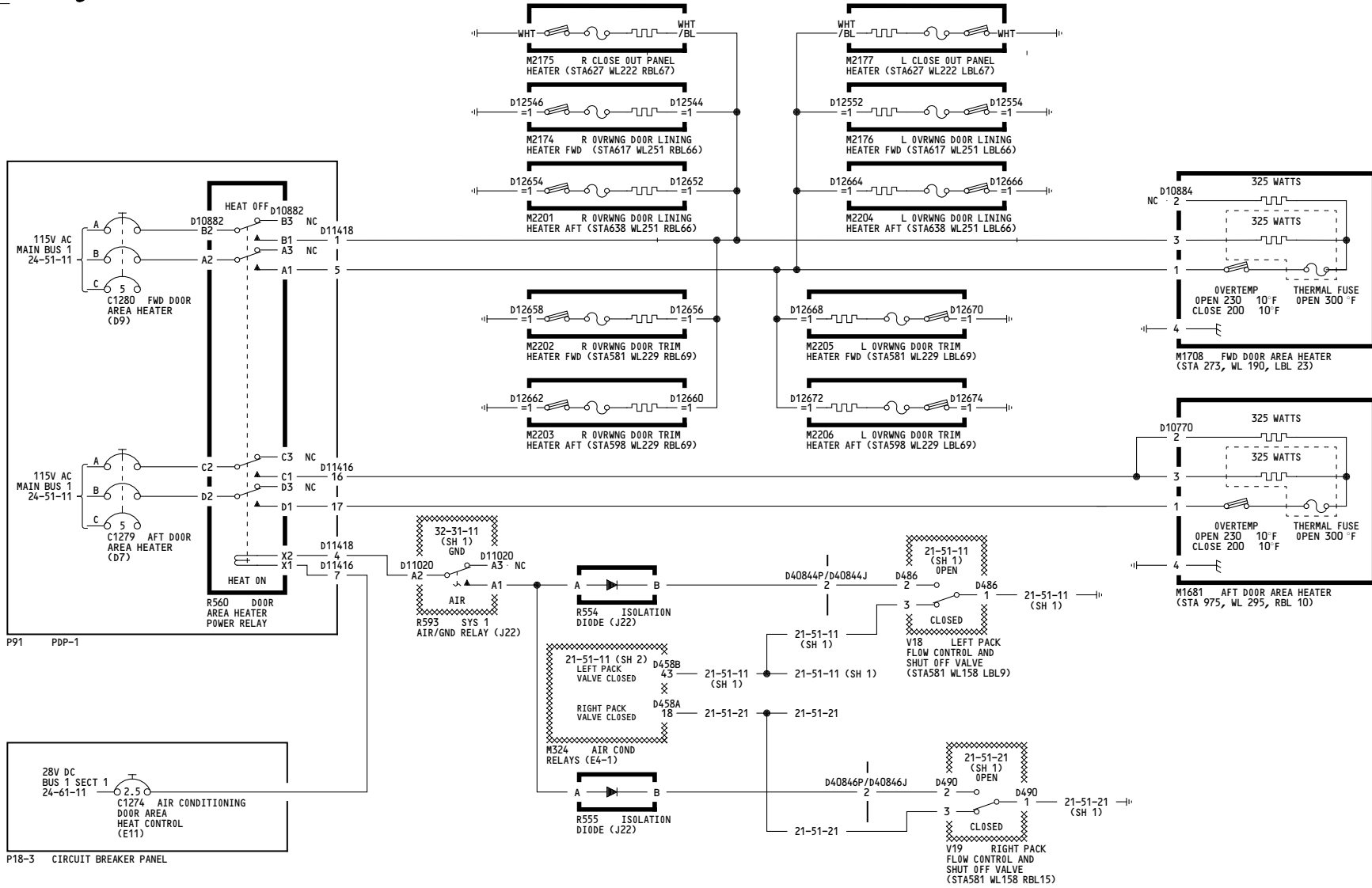


YC031-YC050, YK907-YL430

**DOOR AREA HEATERS**

D280A203

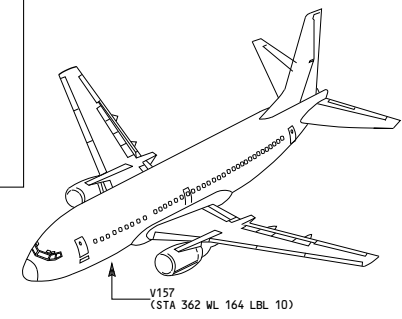
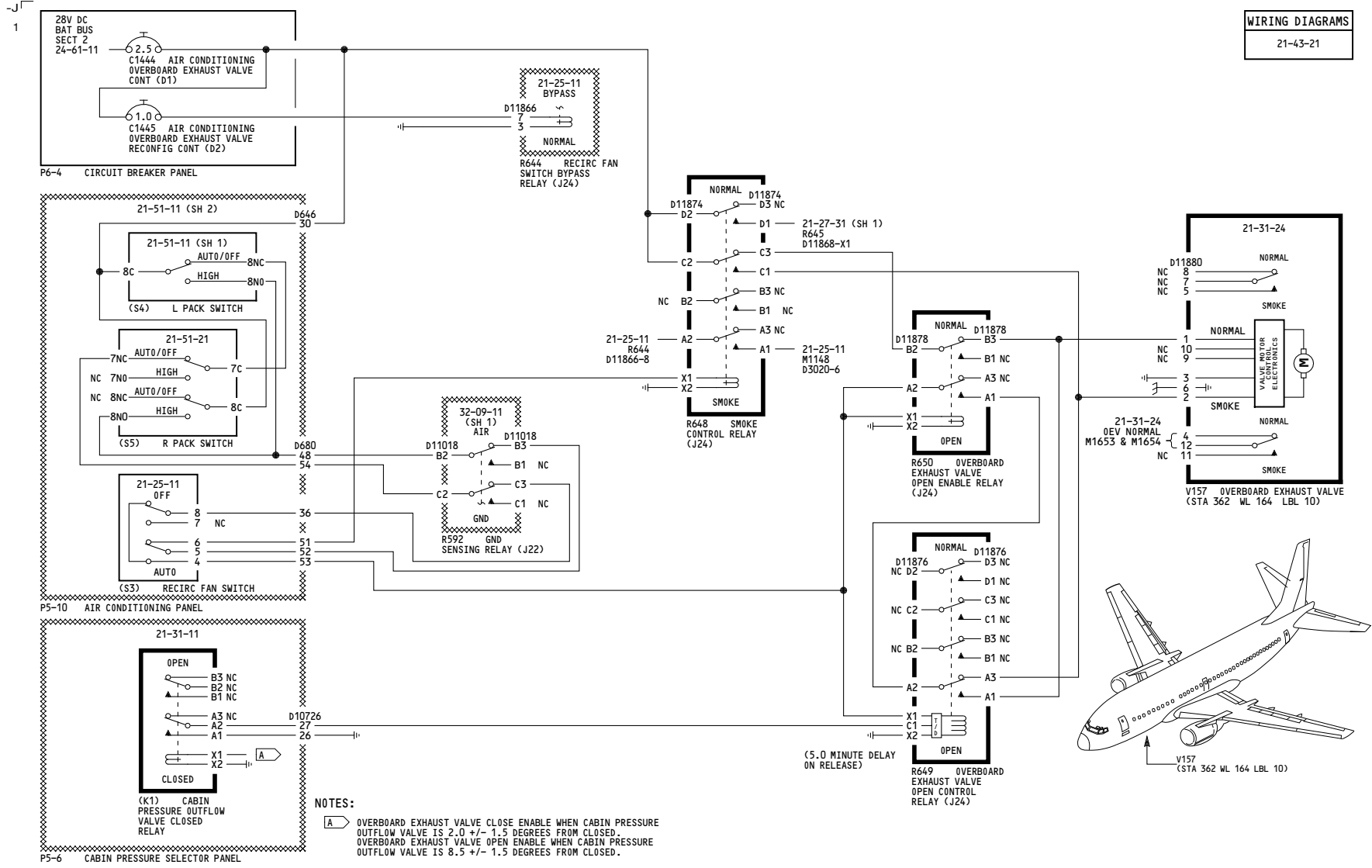
**21-42-11**



P91 PDP-1

P18-3 CIRCUIT BREAKER PANEL

<p>YM643-YM670</p>	<p><b>DOOR AREA HEATERS</b></p> <p>D280A203</p>
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YC001-YC030	<b>OVERBOARD EXHAUST VALVE CONTROL</b>
D280A203	

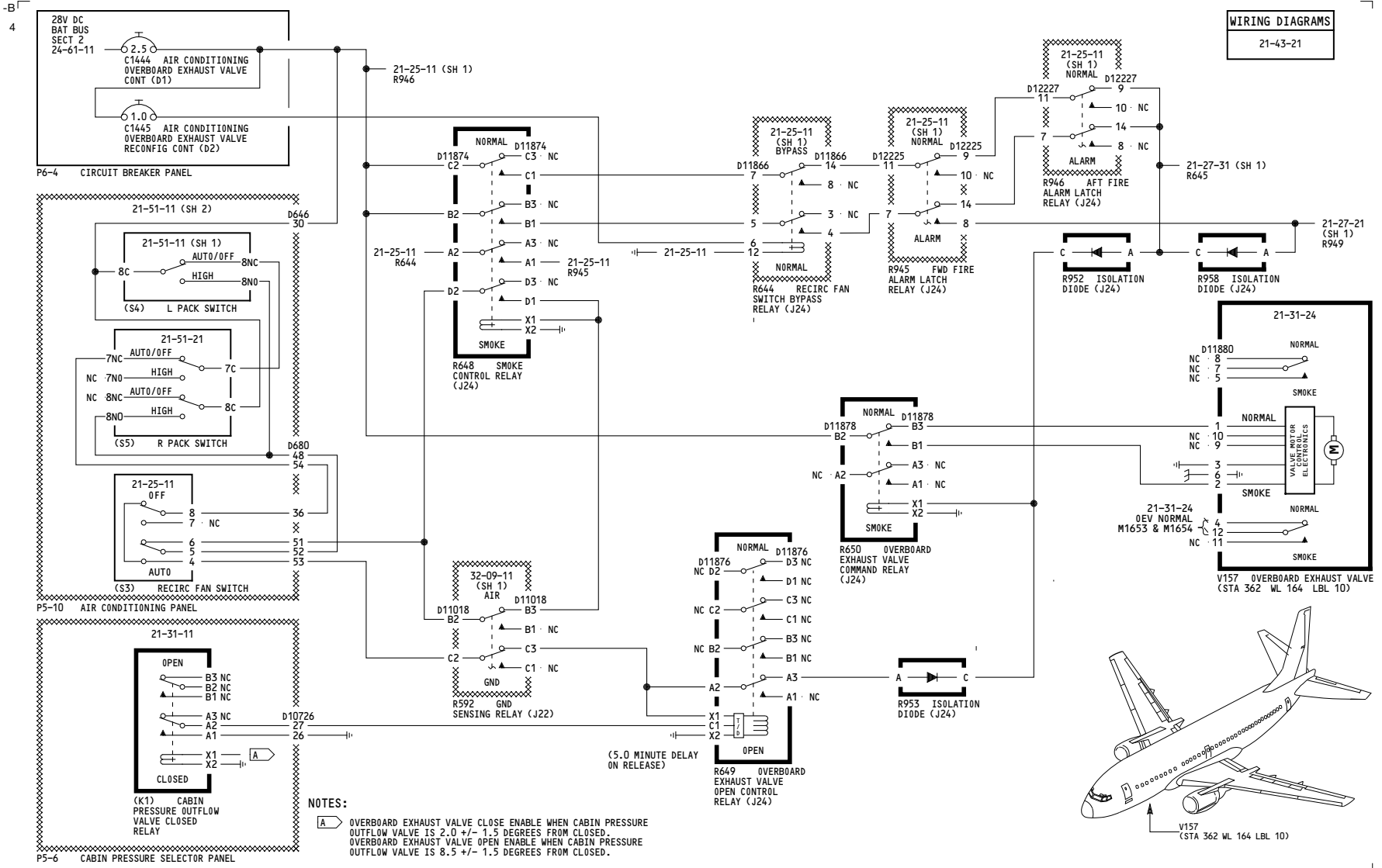
**21-43-21**

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WIRING DIAGRAMS  
21-43-21



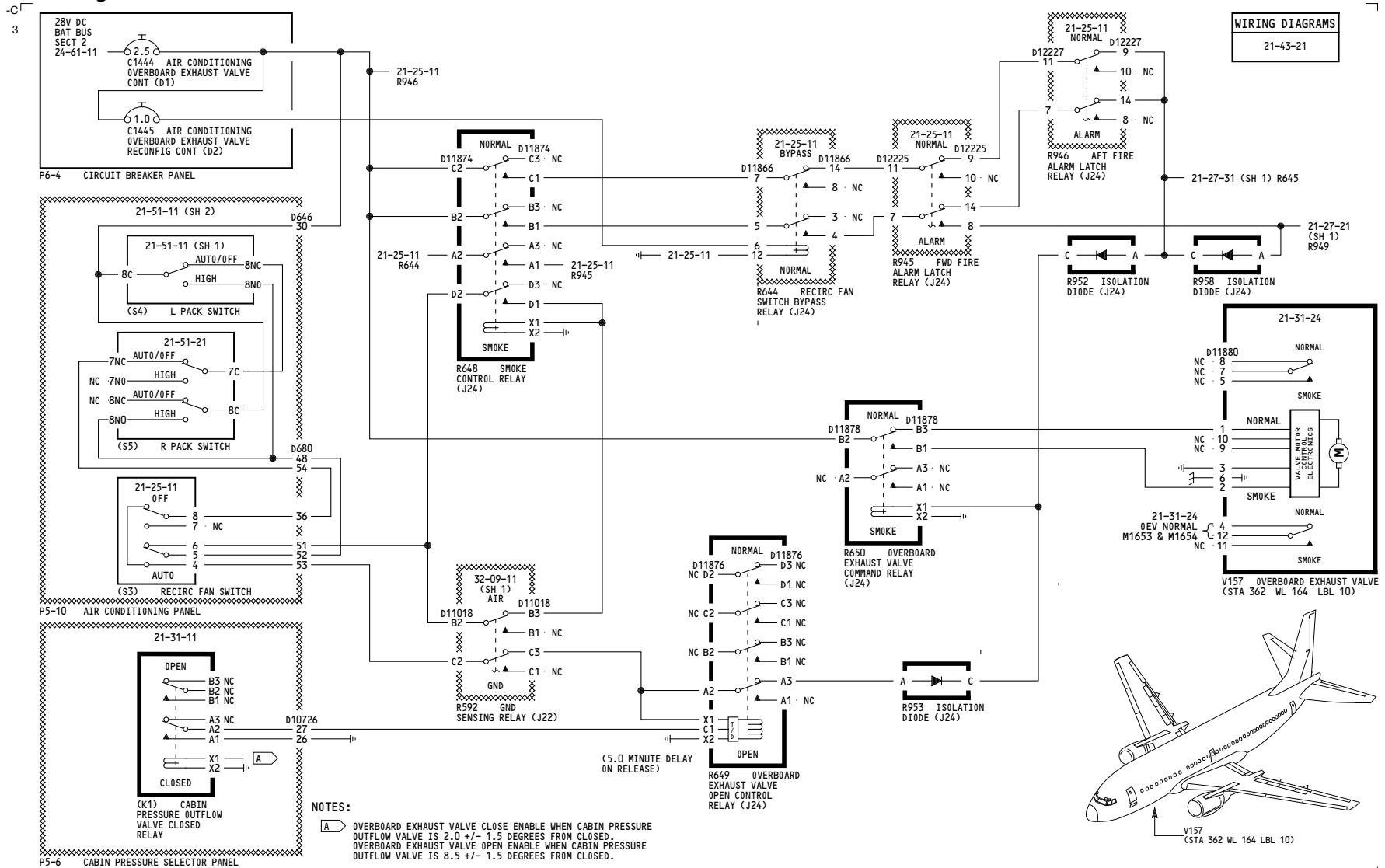
YC031-YL430

**OVERBOARD EXHAUST VALVE CONTROL**

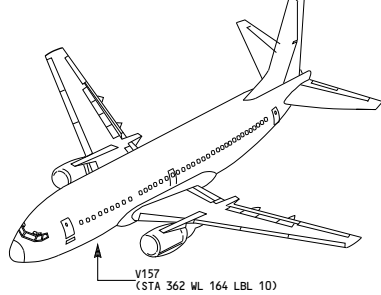
D280A203

**21-43-21**

**WIRING DIAGRAMS**  
21-43-21



**NOTES:**  
 A OVERBOARD EXHAUST VALVE CLOSE ENABLE WHEN CABIN PRESSURE OUTFLOW VALVE IS 2.0 +/- 1.5 DEGREES FROM CLOSED.  
 OVERBOARD EXHAUST VALVE OPEN ENABLE WHEN CABIN PRESSURE OUTFLOW VALVE IS 8.5 +/- 1.5 DEGREES FROM CLOSED.



YM643-YM670

**OVERBOARD EXHAUST VALVE CONTROL**

D280A203

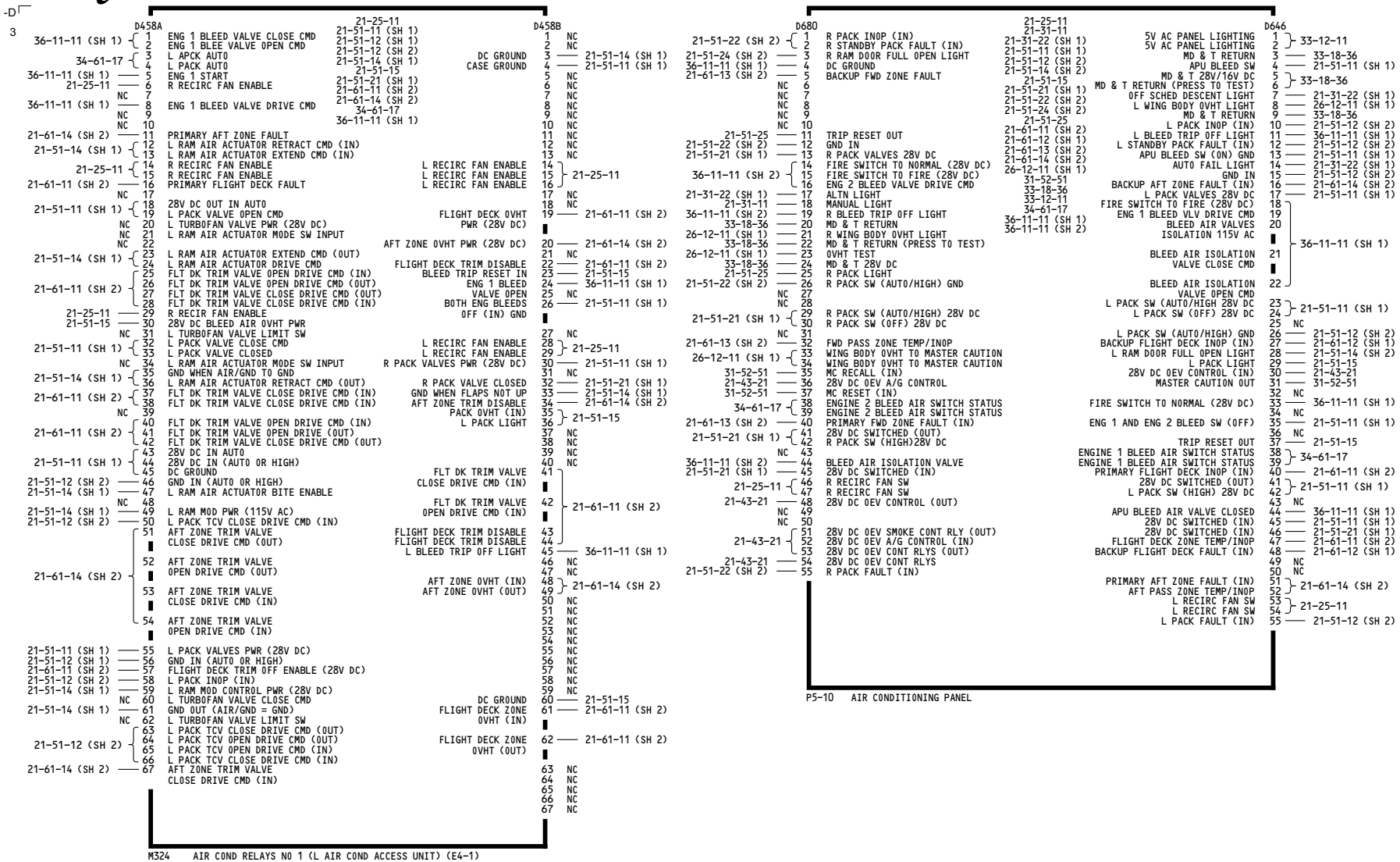
**21-43-21**

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YC029-YC030

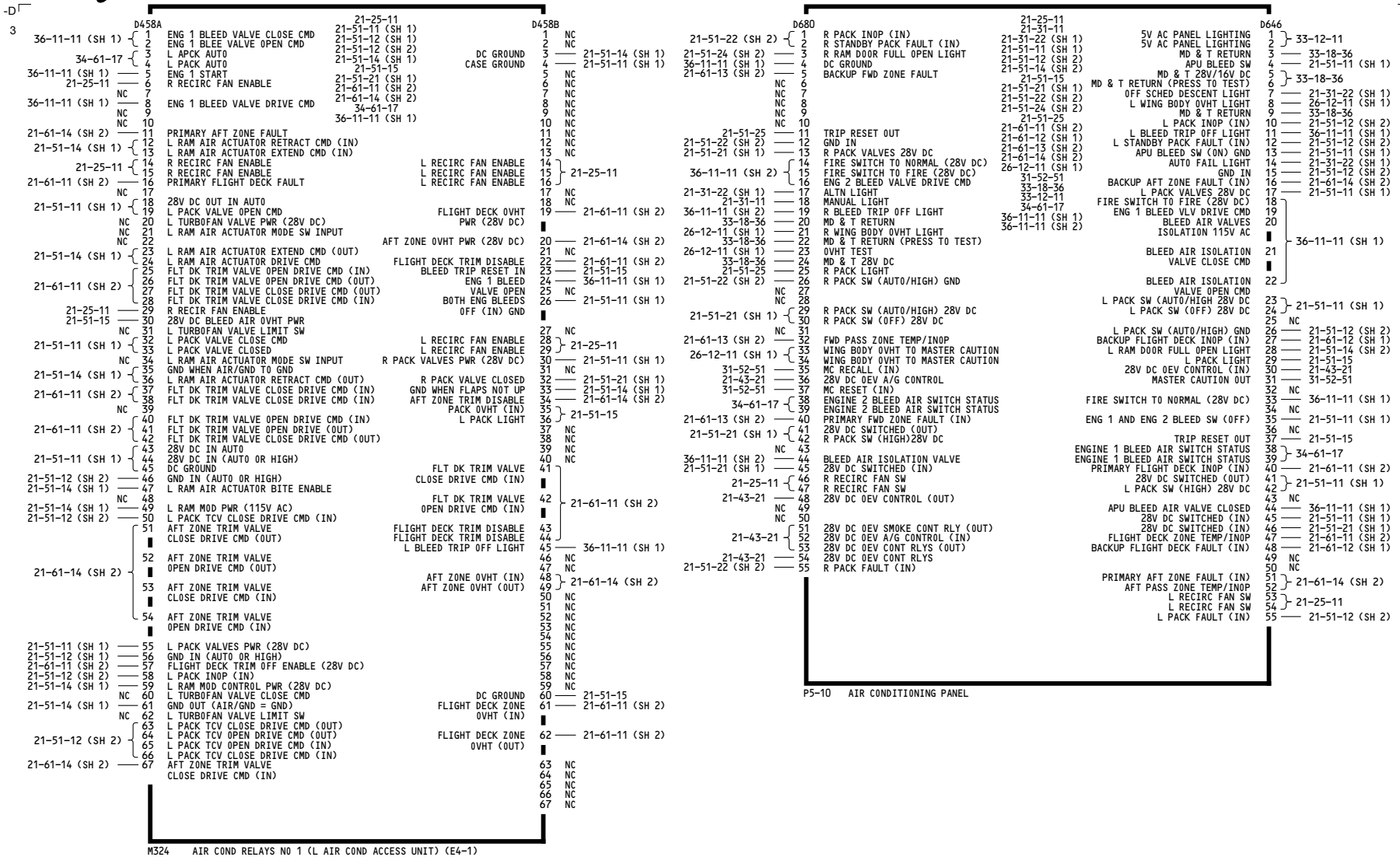
## LEFT PACK VALVE CONTROL

D280A203

# 21-51-11





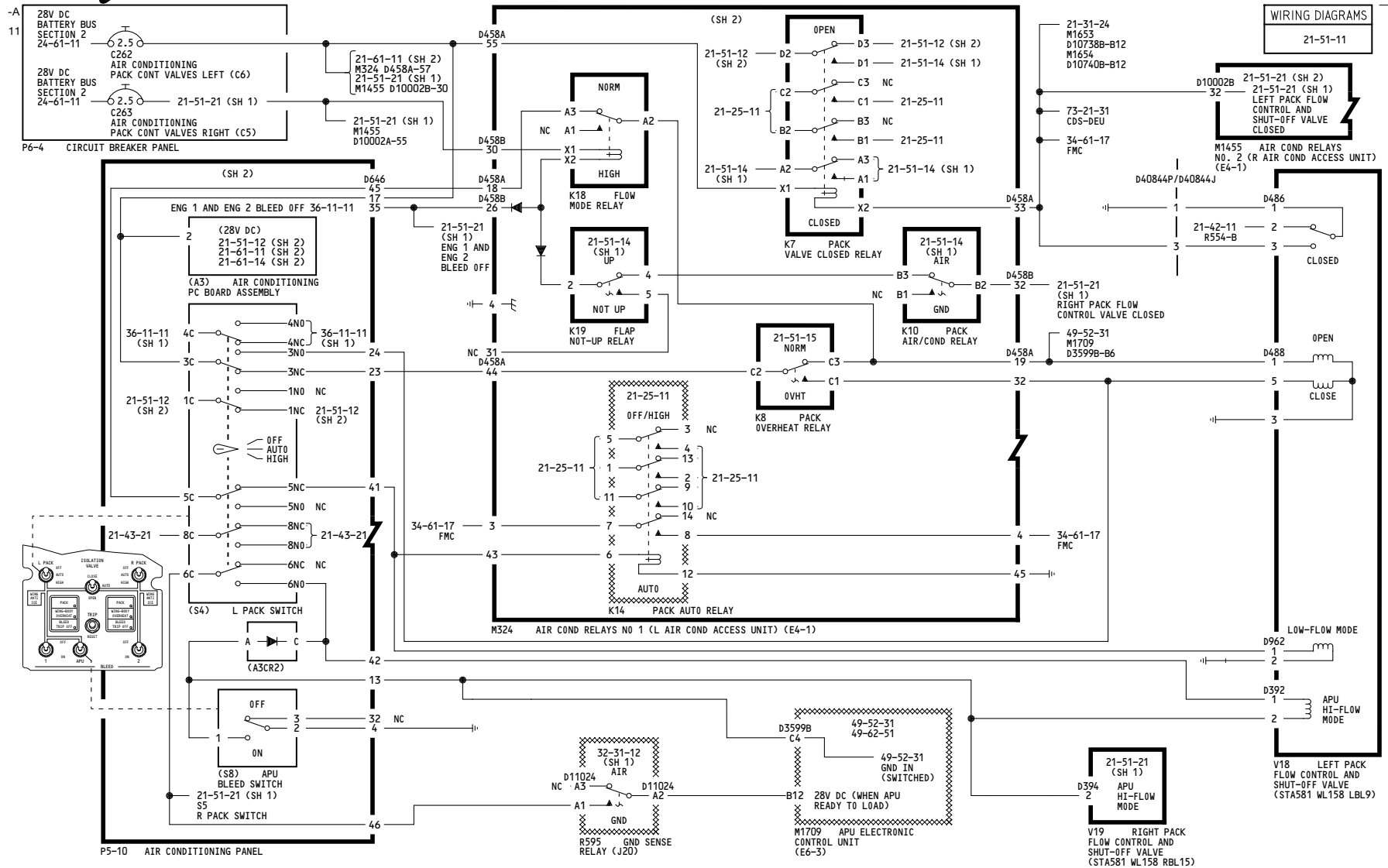


YC031-YC050, YK907-YL430

## LEFT PACK VALVE CONTROL

D280A203

# 21-51-11

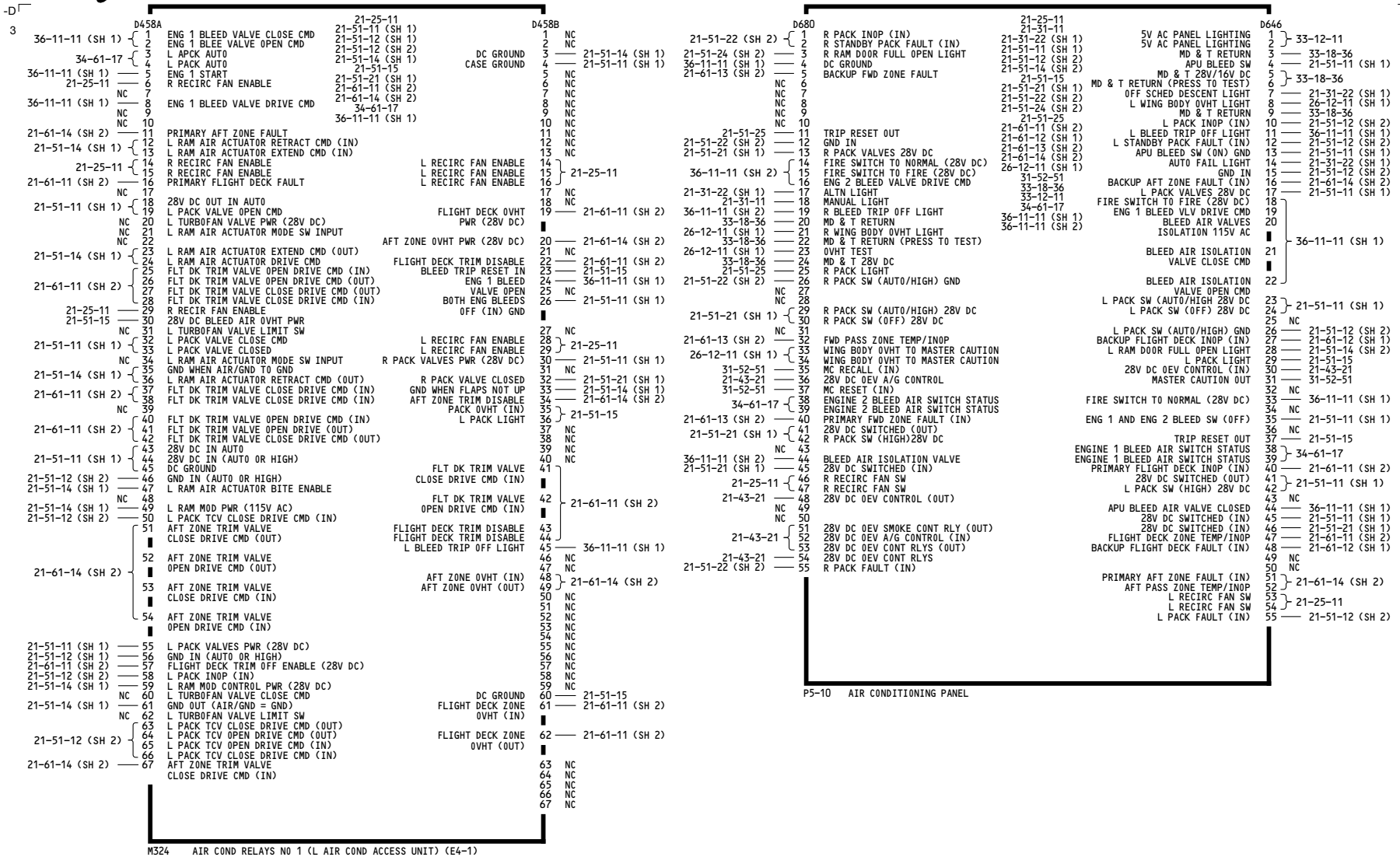


YK901-YK905

**LEFT PACK VALVE CONTROL**

D280A203

**21-51-11**

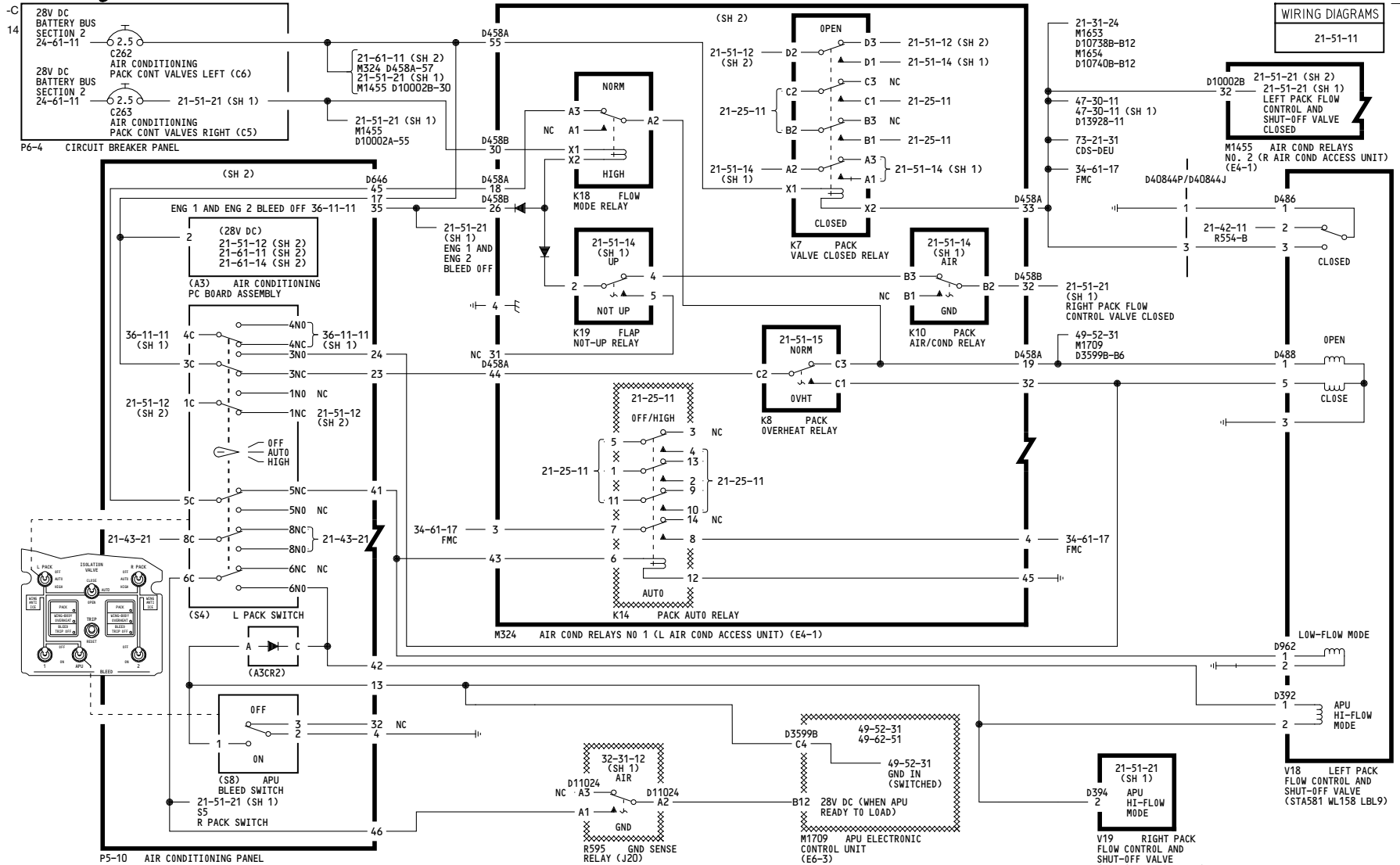


YK901-YK905

## LEFT PACK VALVE CONTROL

D280A203

# 21-51-11



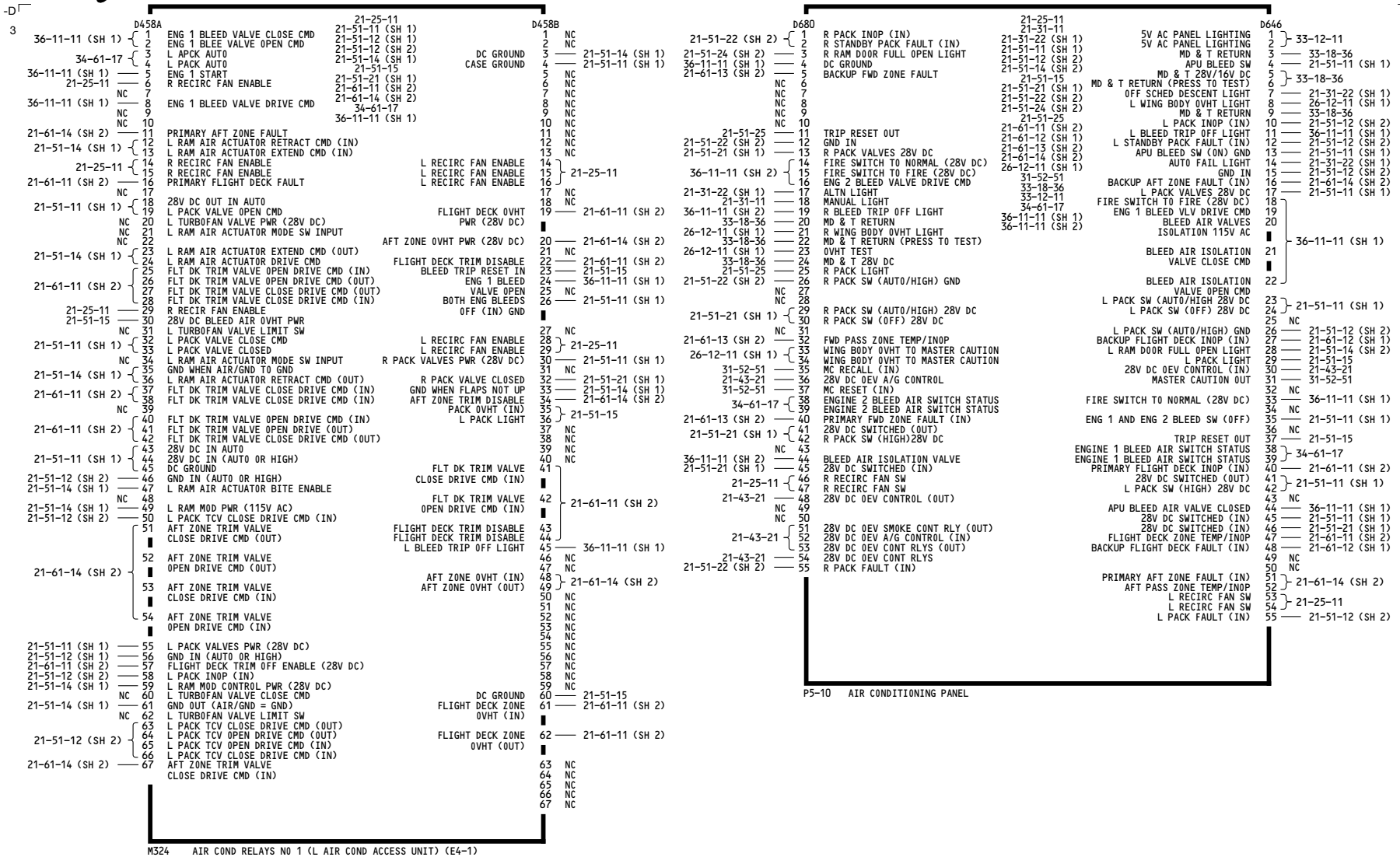
WIRING DIAGRAMS  
21-51-11

YK906

**LEFT PACK VALVE CONTROL**

D280A203

**21-51-11**

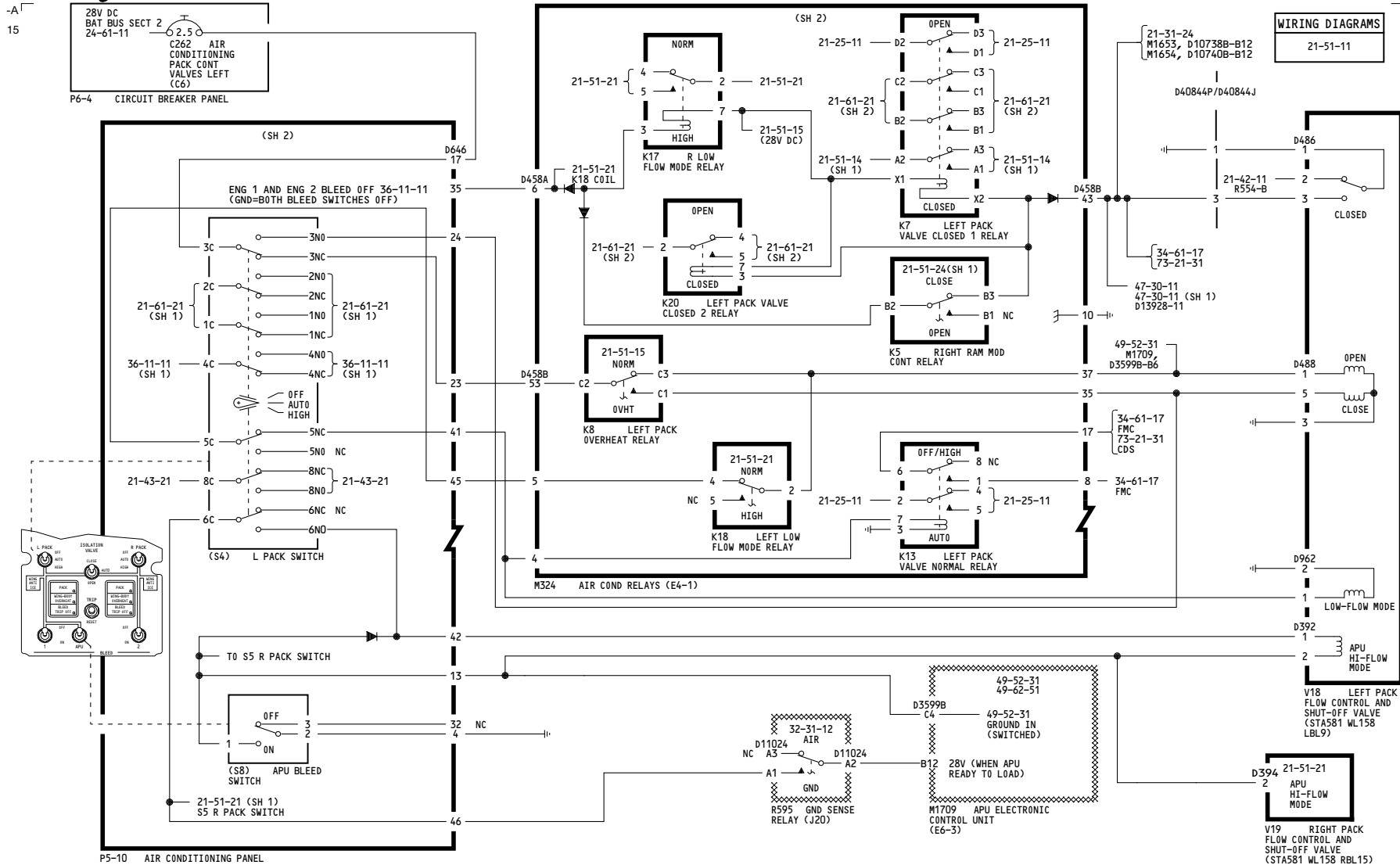


YK906

## LEFT PACK VALVE CONTROL

# 21-51-11

D280A203



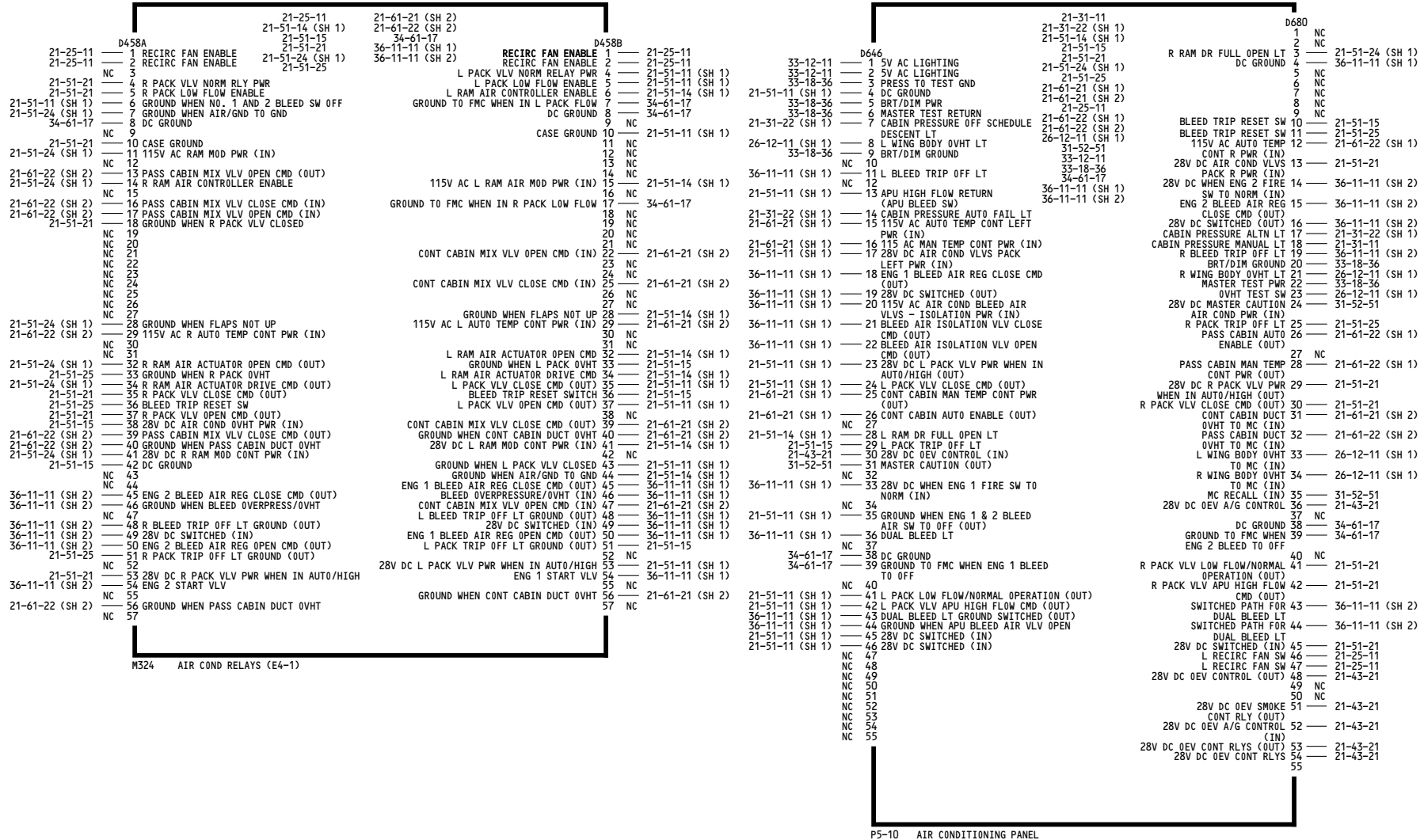
YM643-YM670

**LEFT PACK VALVE CONTROL**

D280A203

**21-51-11**

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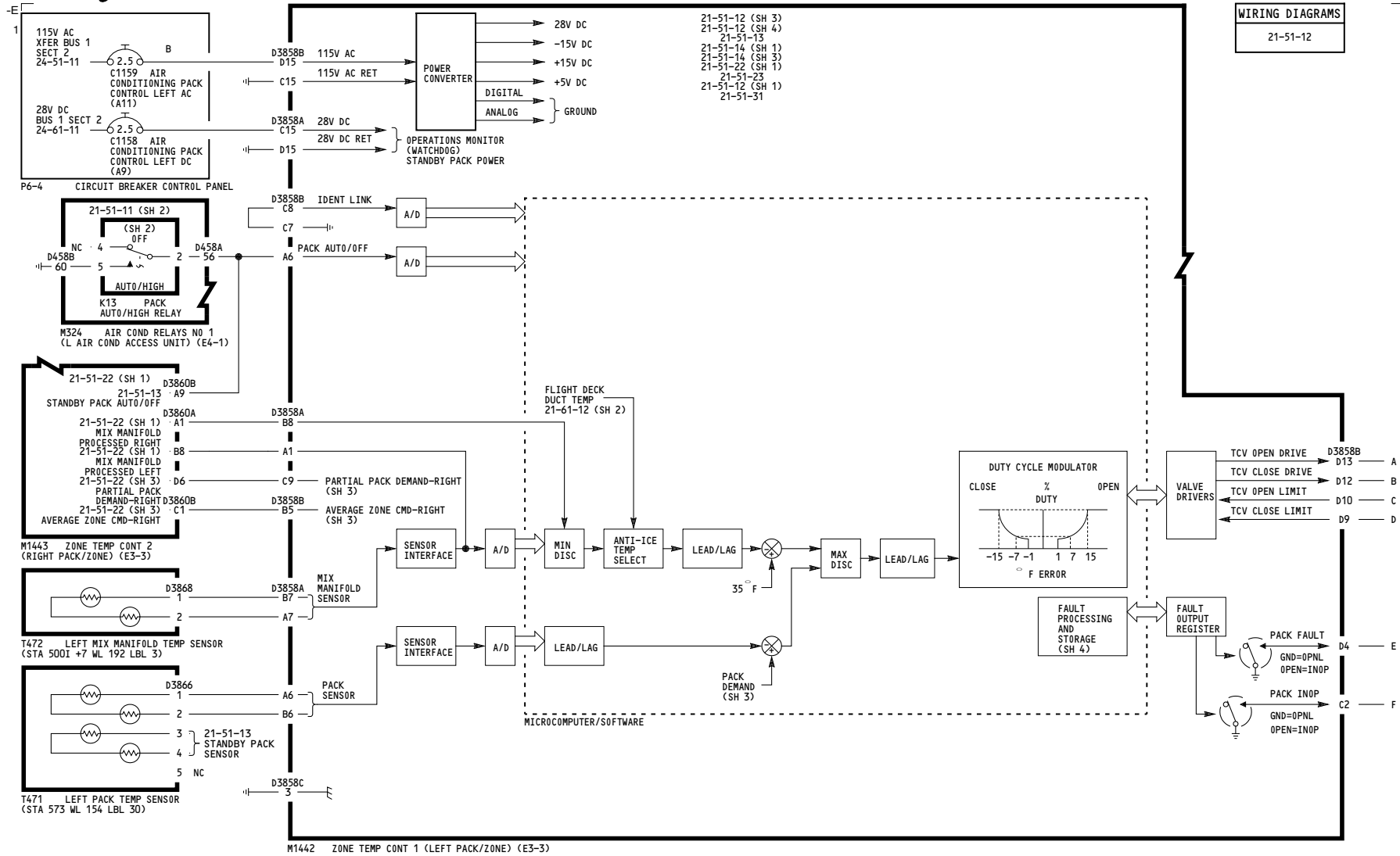
YM643-YM670

LEFT PACK VALVE CONTROL

D280A203

21-51-11

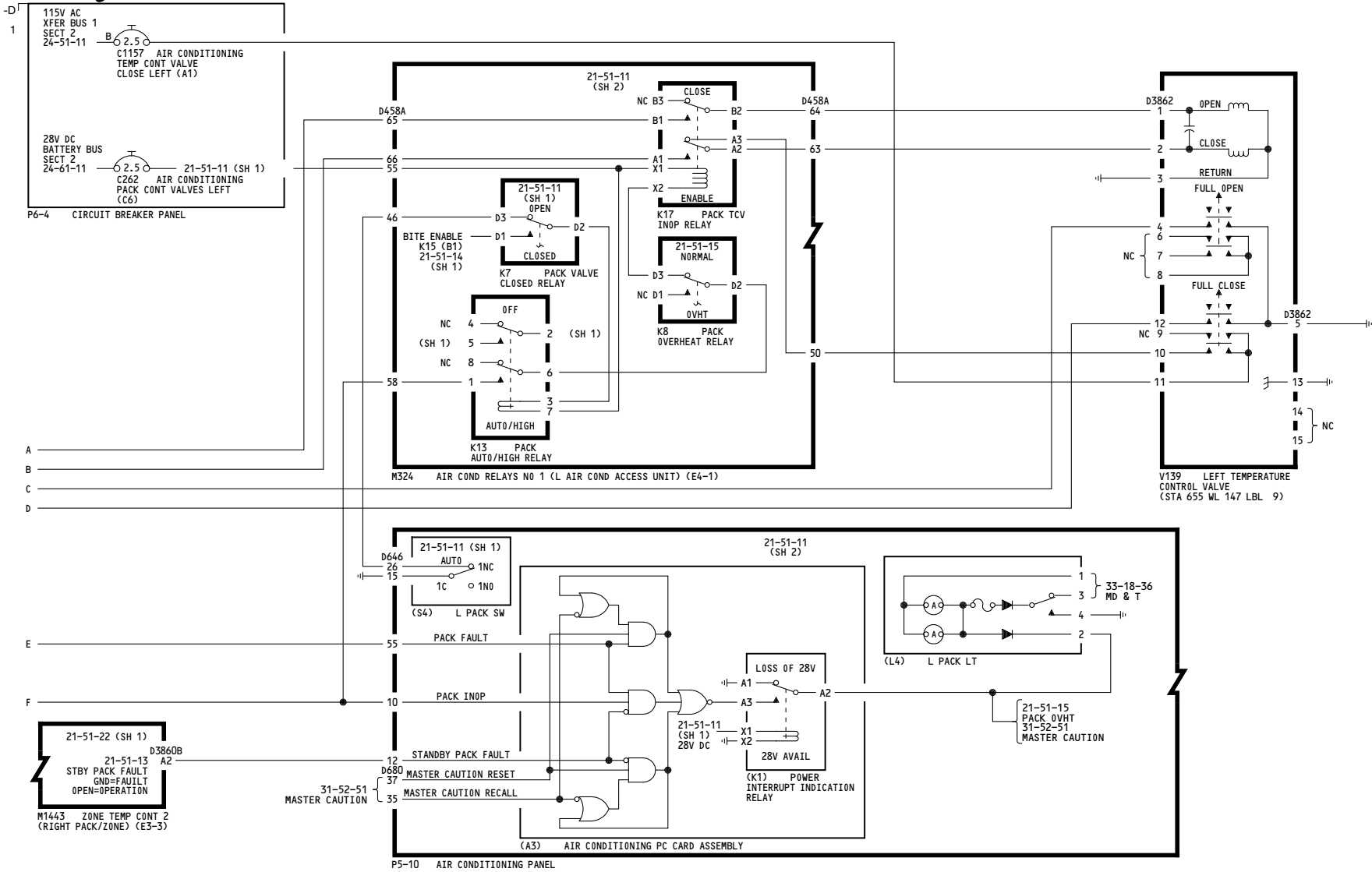
WIRING DIAGRAMS  
21-51-12



YC001-YC022	<b>LEFT AIR CONDITIONING PACK CONTROL - AUTO</b>  D280A203
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**21-51-12**





YC001-YC022

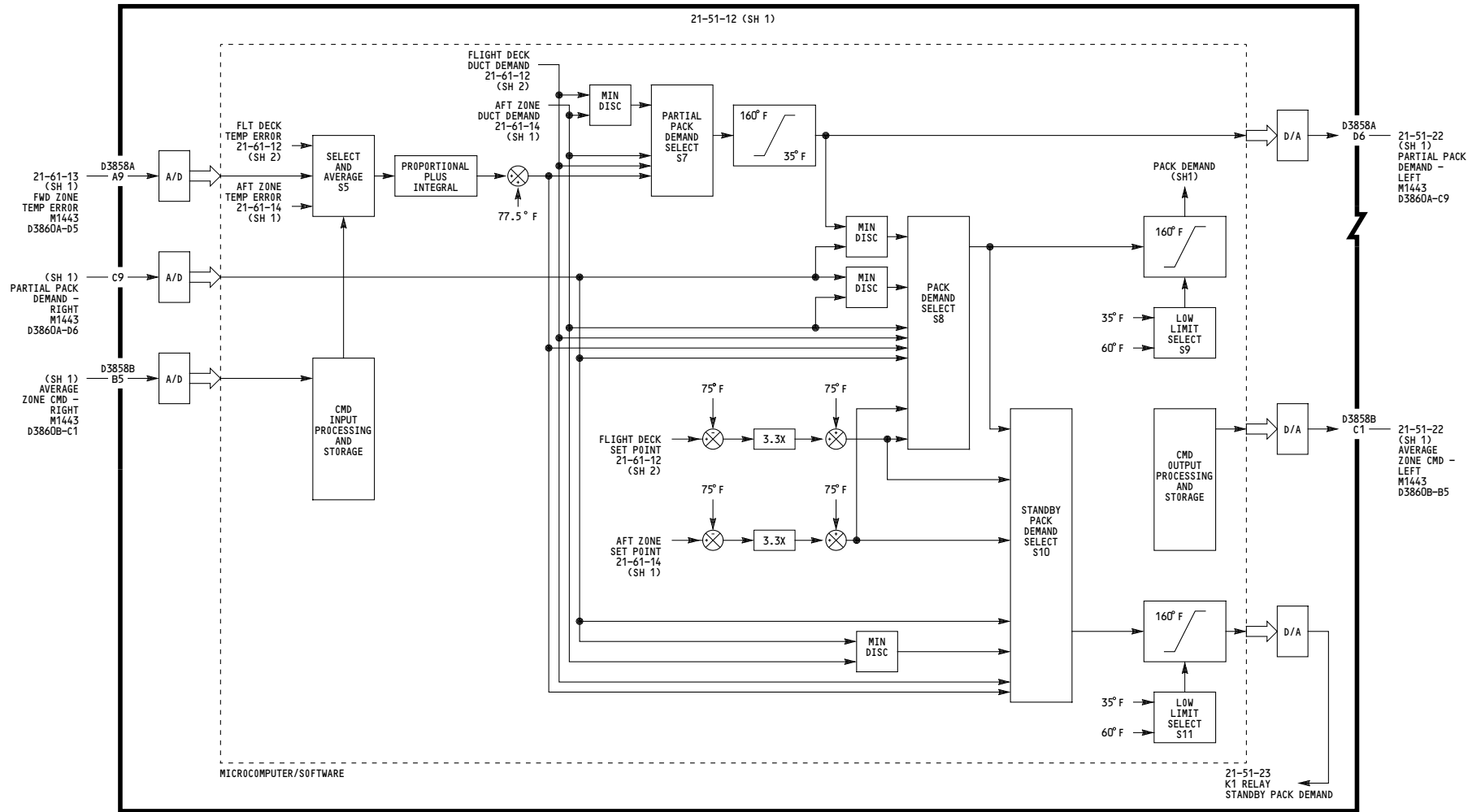
**LEFT AIR CONDITIONING  
PACK CONTROL - AUTO**

D280A203

**21-51-12**

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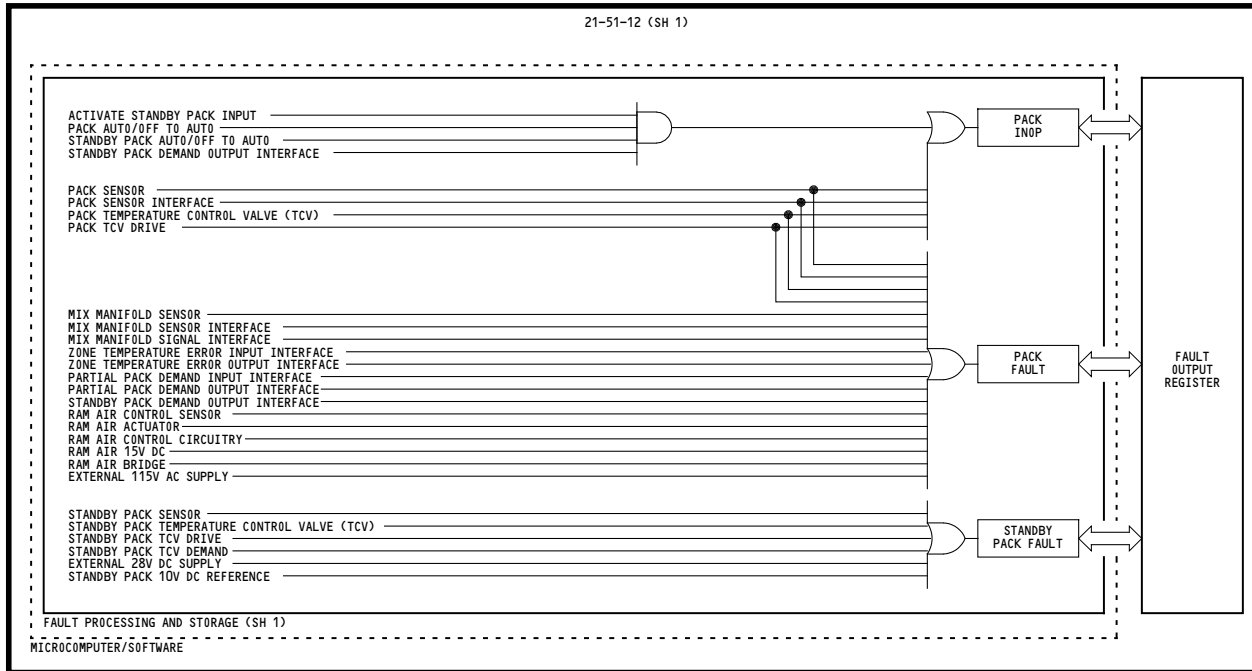
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M1442 ZONE TEMP CONT 1 (LEFT PACK/ZONE (E3-3))

<p>YC001-YC022</p>	<p><b>LEFT AIR CONDITIONING PACK CONTROL - AUTO</b></p> <p>D280A203</p>
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**21-51-12**



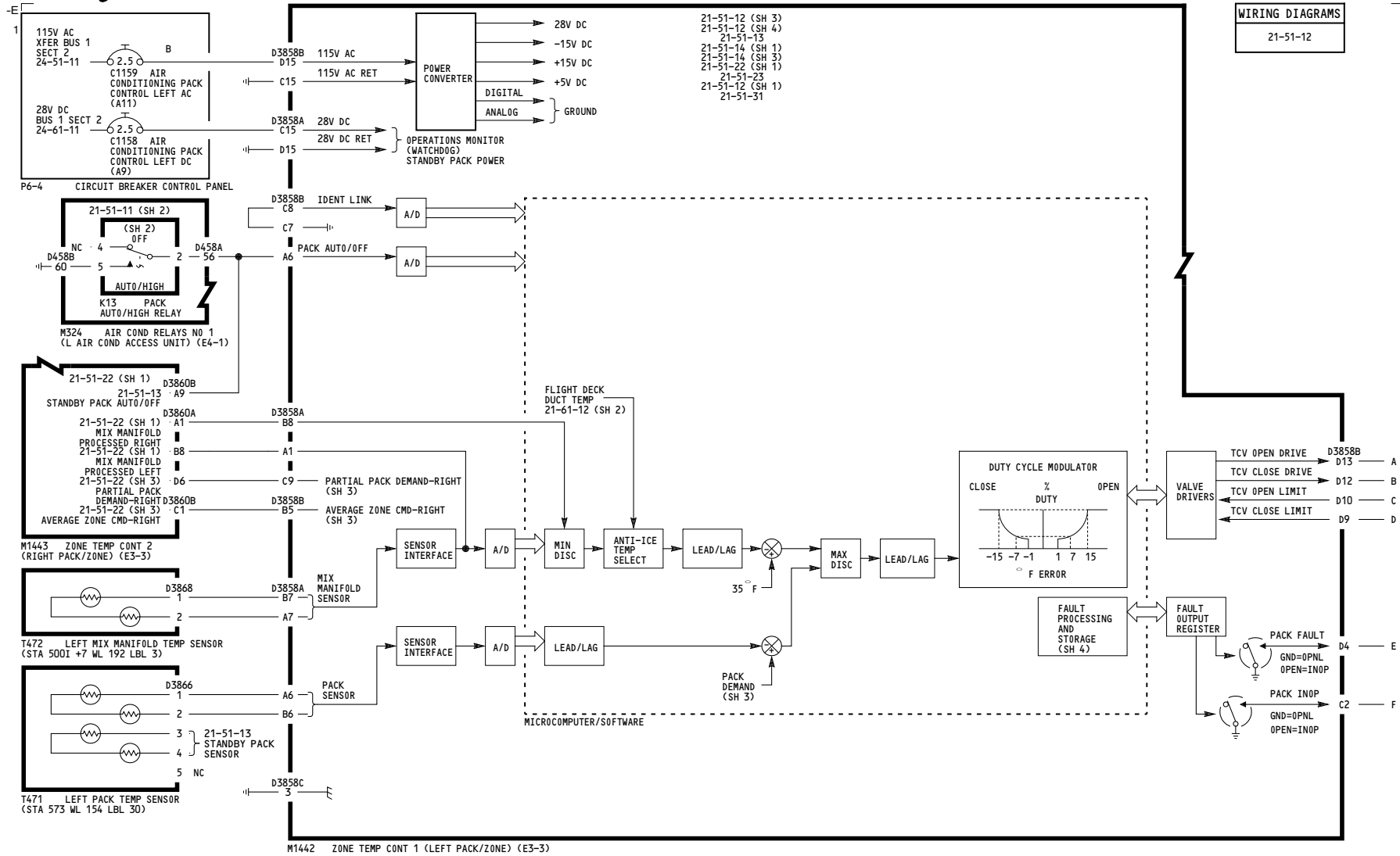
M1442 ZONE TEMP CONT 1 (LEFT PACK/ZONE) (E3-3)

YC001-YC022	<p style="text-align: center;"><b>LEFT AIR CONDITIONING PACK CONTROL - AUTO</b></p> <p style="text-align: center;">D280A203</p>
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**21-51-12**

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Sheet 4  
Mar 31/2005

WIRING DIAGRAMS  
21-51-12



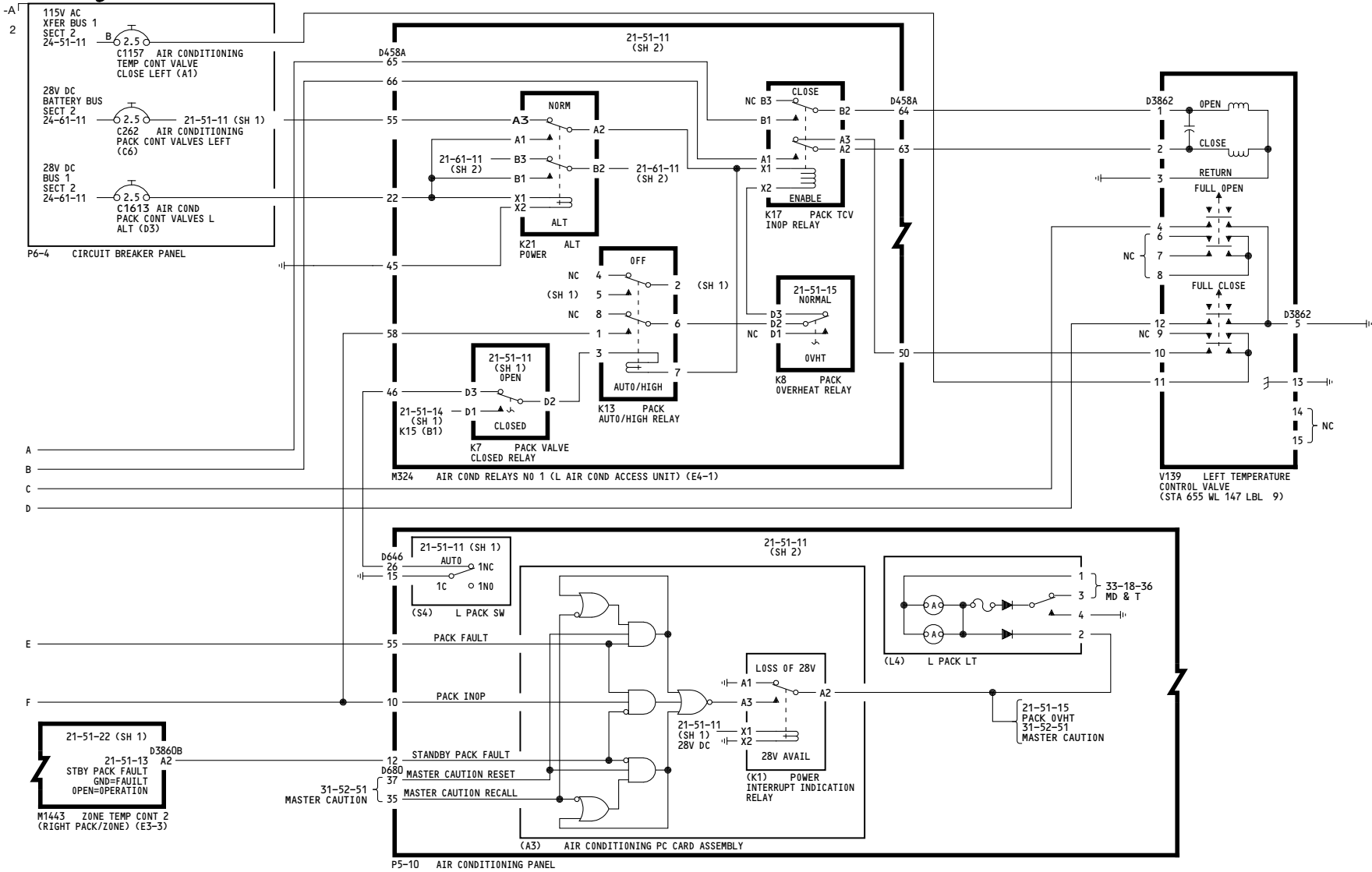
YC001-YC022

**LEFT AIR CONDITIONING PACK CONTROL - AUTO**

D280A203

**21-51-12**

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Sheet 1  
Oct 20/2006



YC001-YC022

**LEFT AIR CONDITIONING PACK CONTROL - AUTO**

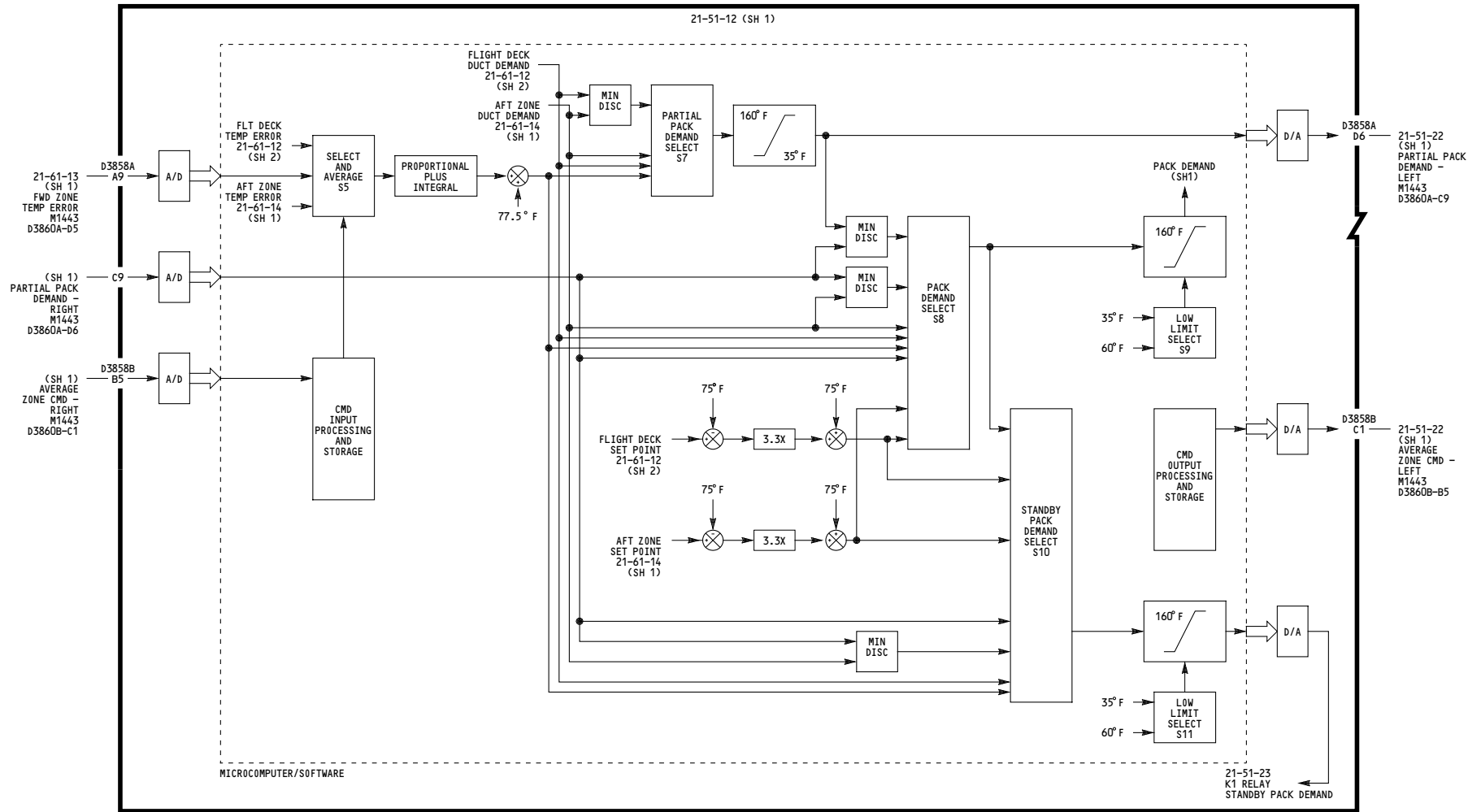
Incorporates  
 21-1133

D280A203

**21-51-12**

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 Sheet 2  
 Jul 26/2006

1

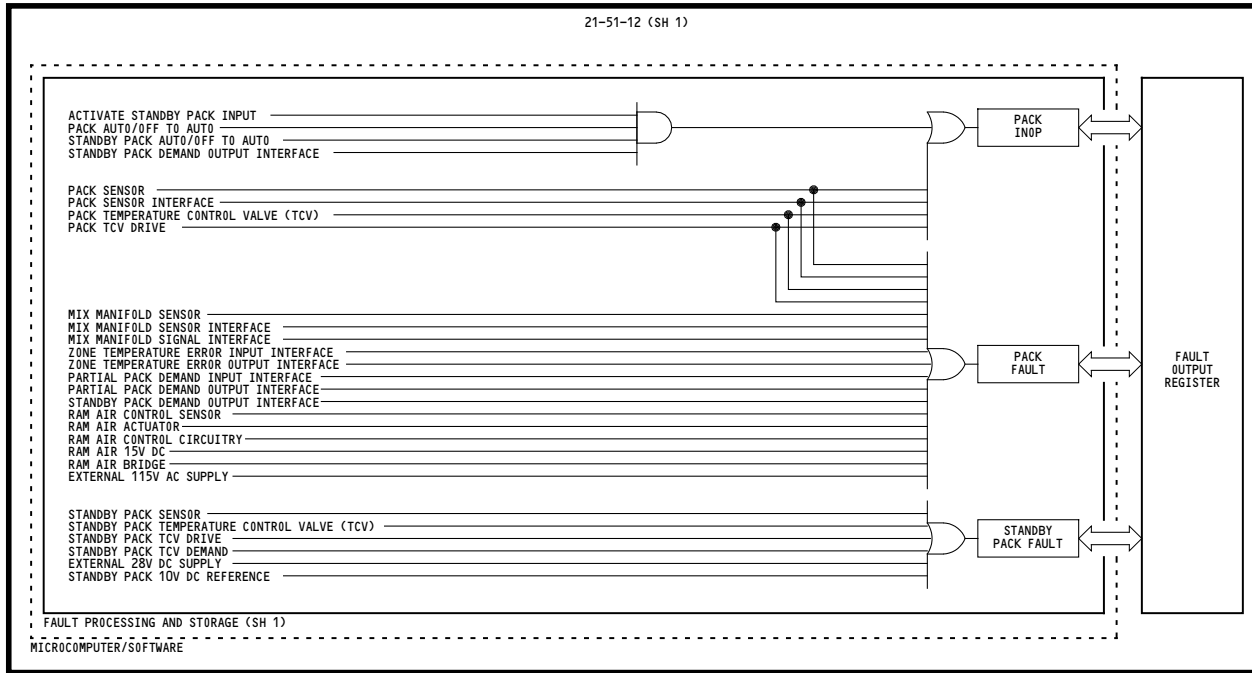


M1442 ZONE TEMP CONT 1 (LEFT PACK/ZONE (E3-3))

<p>YC001-YC022</p>	<p><b>LEFT AIR CONDITIONING PACK CONTROL - AUTO</b></p> <p>D280A203</p>
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**21-51-12**

Page 101.1  
Sheet 3  
Mar 31/2005



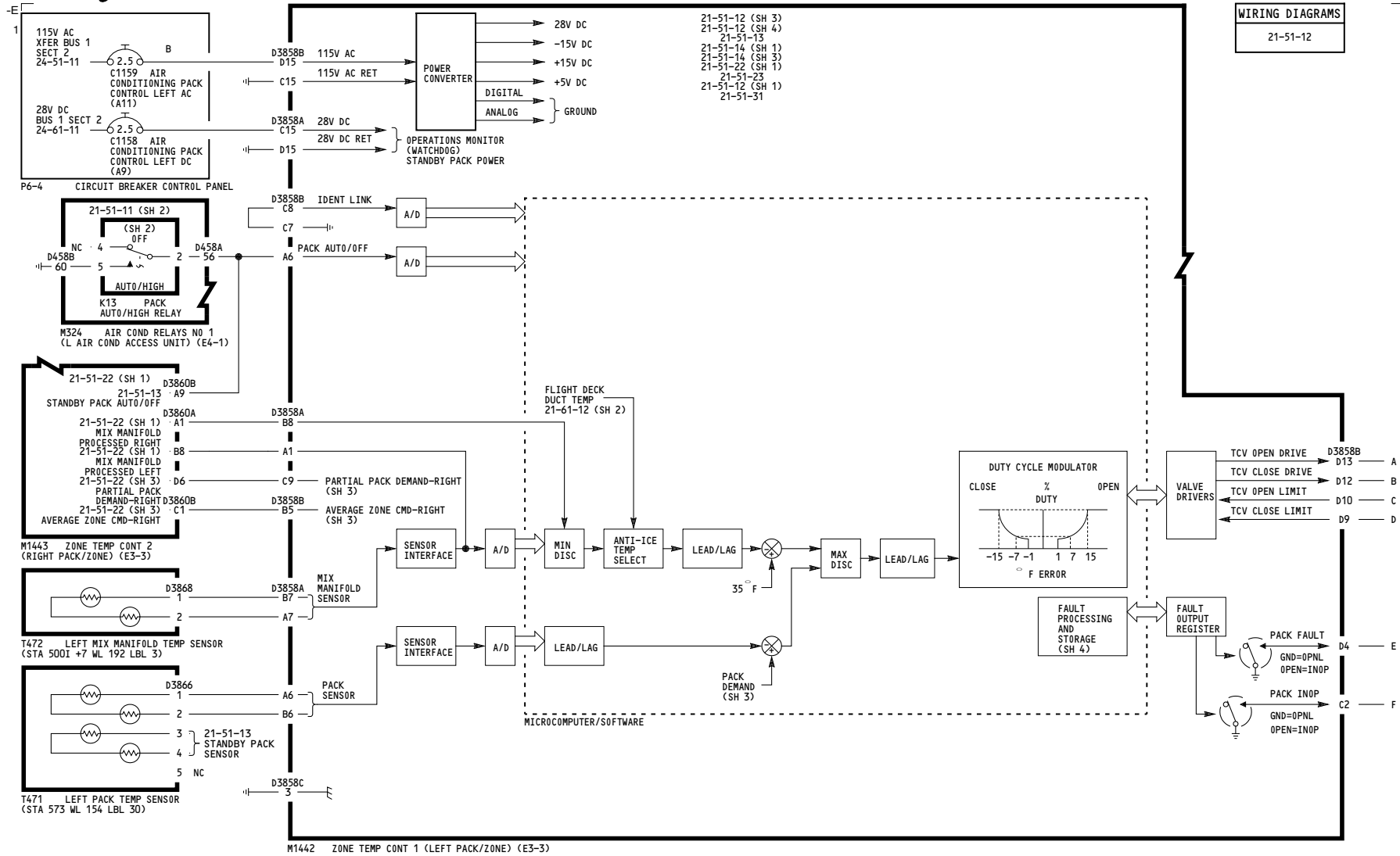
M1442 ZONE TEMP CONT 1 (LEFT PACK/ZONE) (E3-3)

YC001-YC022	<b>LEFT AIR CONDITIONING PACK CONTROL - AUTO</b>
D280A203	

**21-51-12**

Page 101.1  
Sheet 4  
Mar 31/2005

WIRING DIAGRAMS  
21-51-12



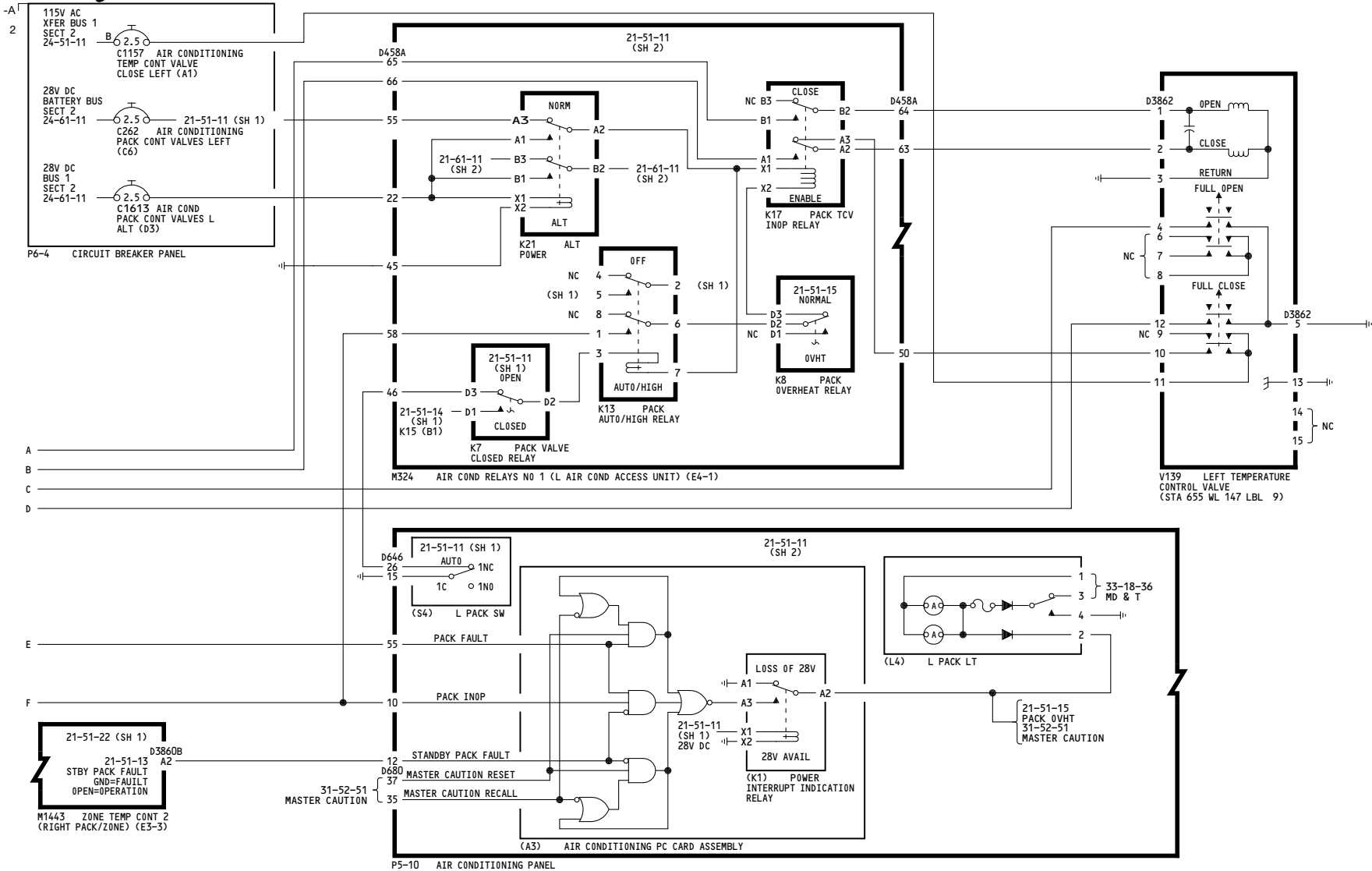
YC023-YL430

**LEFT AIR CONDITIONING  
PACK CONTROL - AUTO**

D280A203

**21-51-12**





YC023-YL430

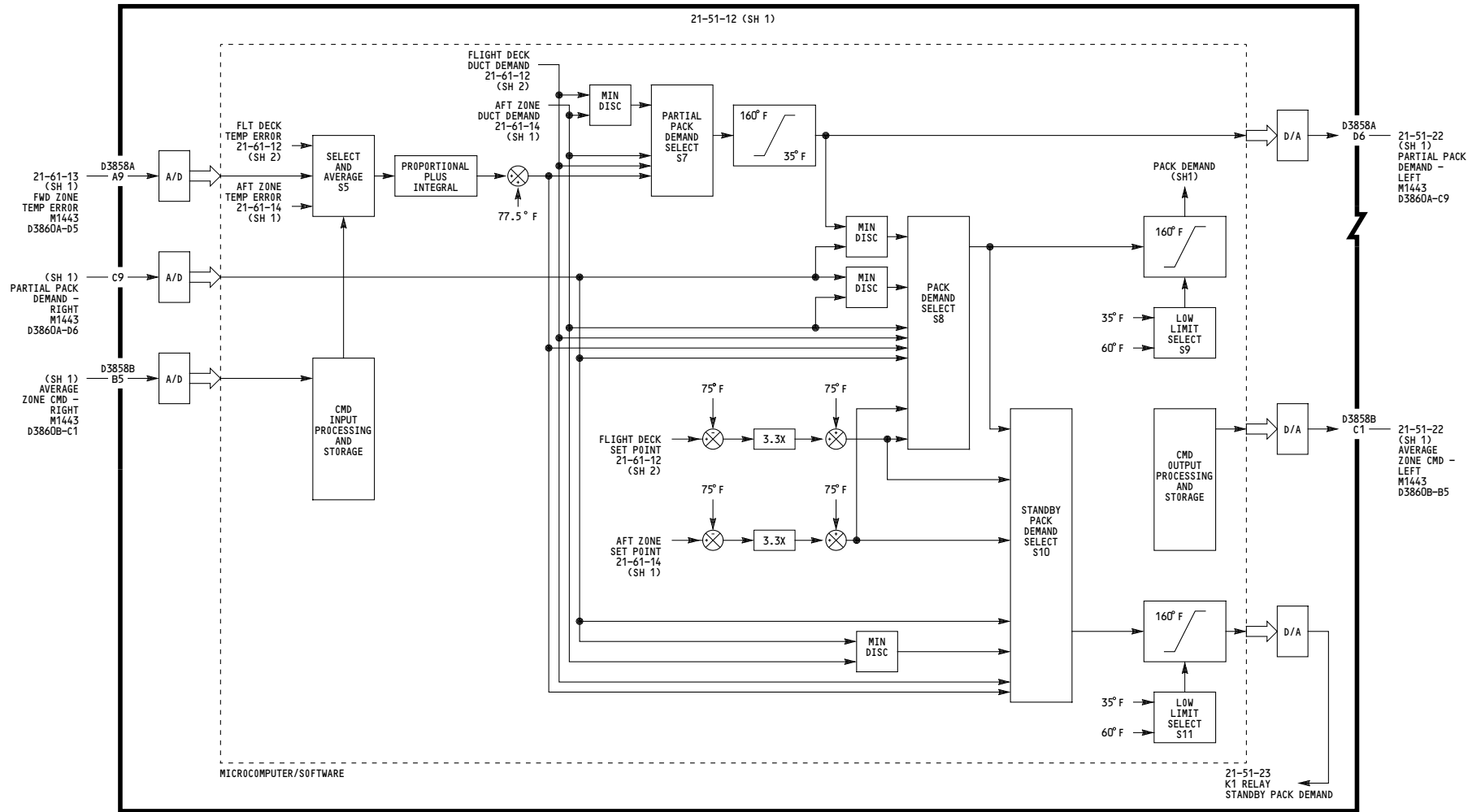
**LEFT AIR CONDITIONING  
PACK CONTROL - AUTO**

D280A203

**21-51-12**

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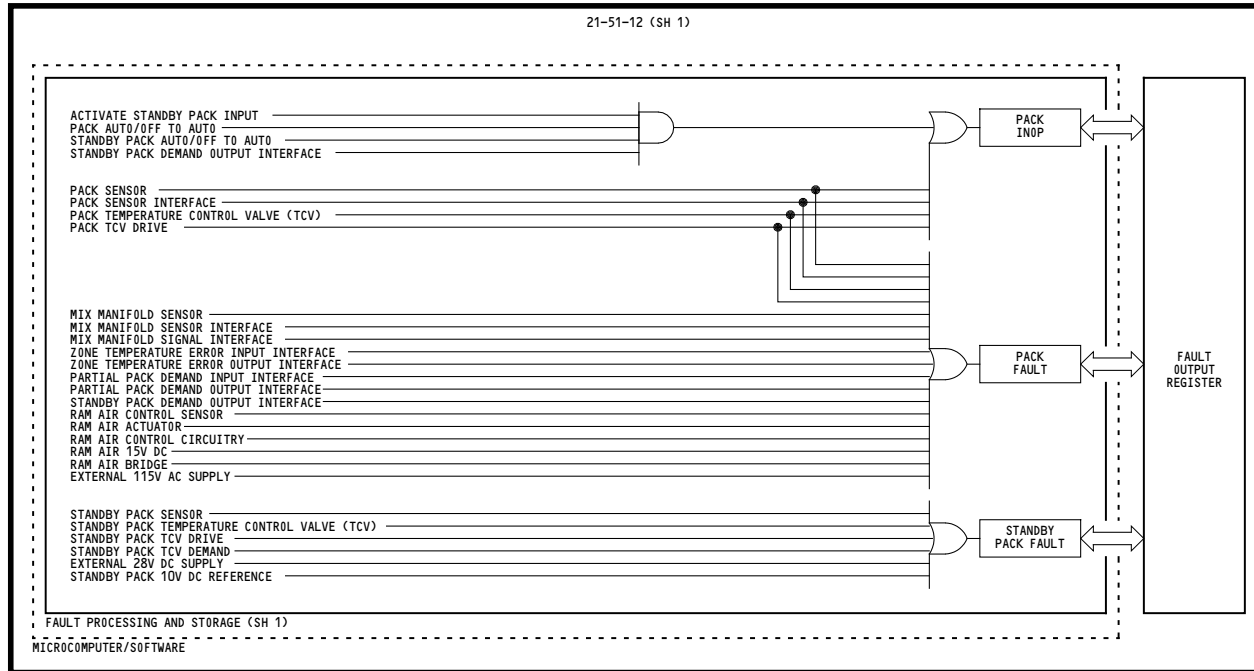
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M1442 ZONE TEMP CONT 1 (LEFT PACK/ZONE (E3-3))

<p>YC023-YL430</p>	<p><b>LEFT AIR CONDITIONING PACK CONTROL - AUTO</b></p> <p>D280A203</p>
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**21-51-12**



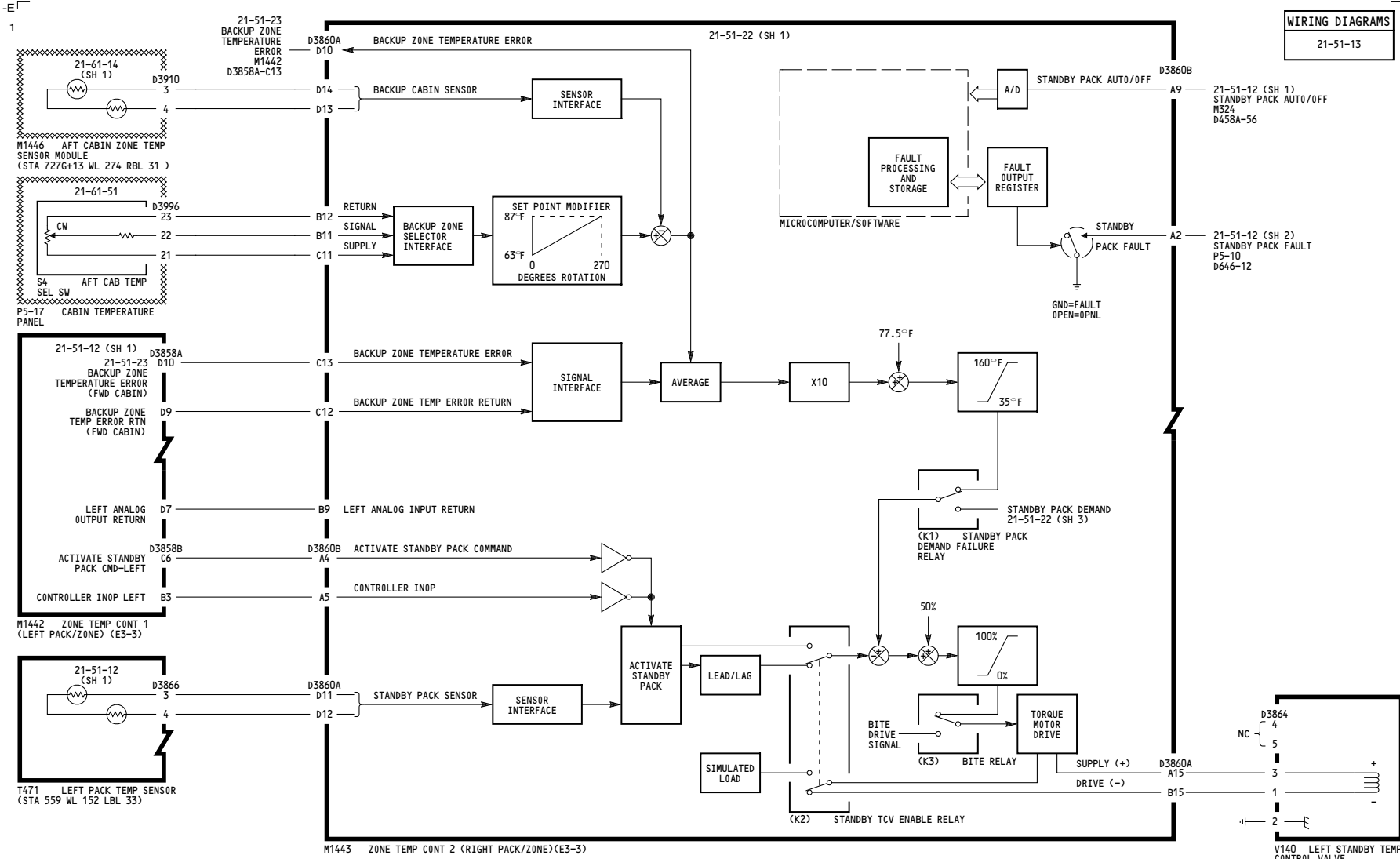
M1442 ZONE TEMP CONT 1 (LEFT PACK/ZONE) (E3-3)

YC023-YL430	<b>LEFT AIR CONDITIONING PACK CONTROL - AUTO</b>
D280A203	

**21-51-12**

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WIRING DIAGRAMS  
21-51-13



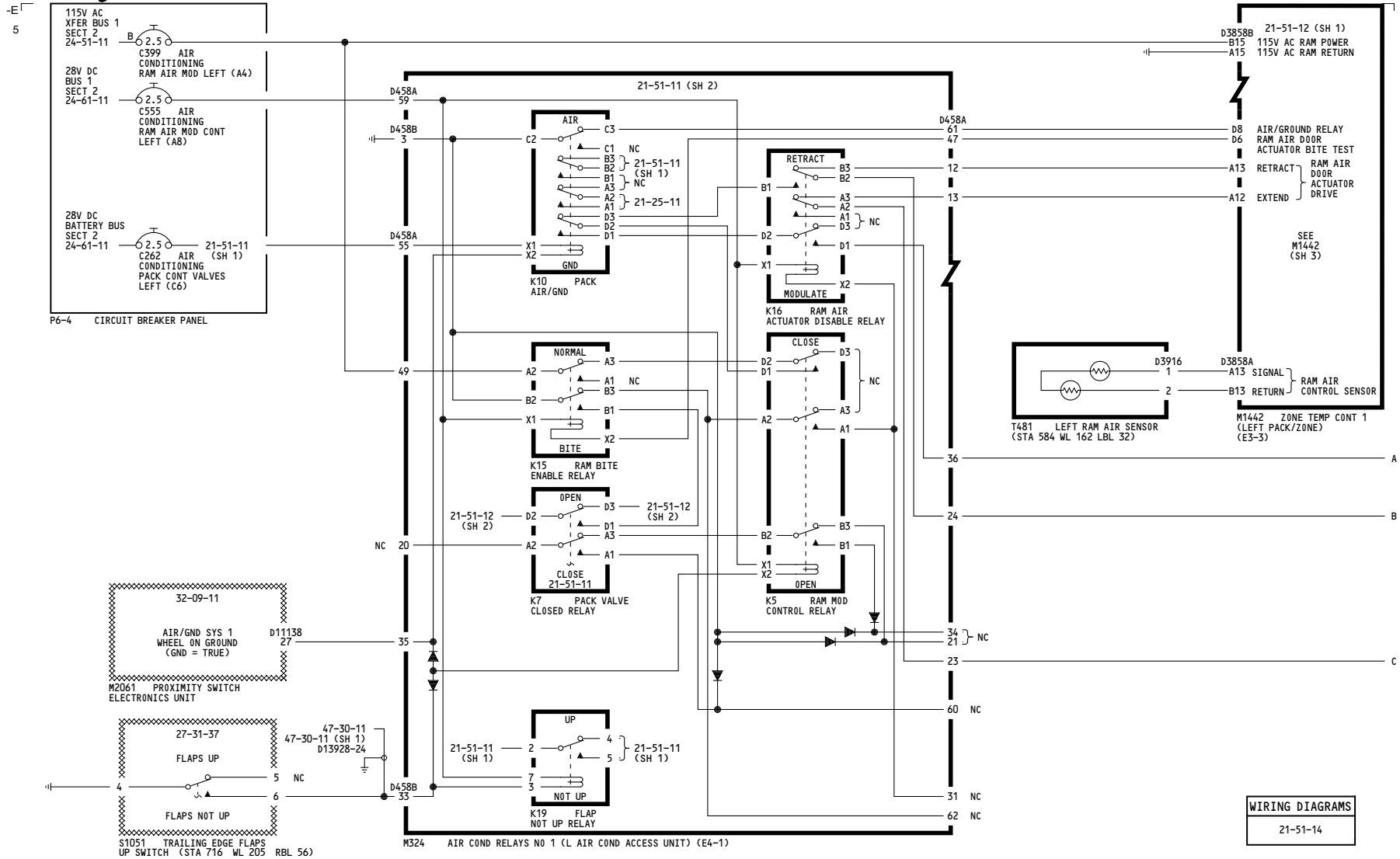
YC001-YL430

**LEFT AIR CONDITIONING  
PACK CONTROL STANDBY**

D280A203

**21-51-13**

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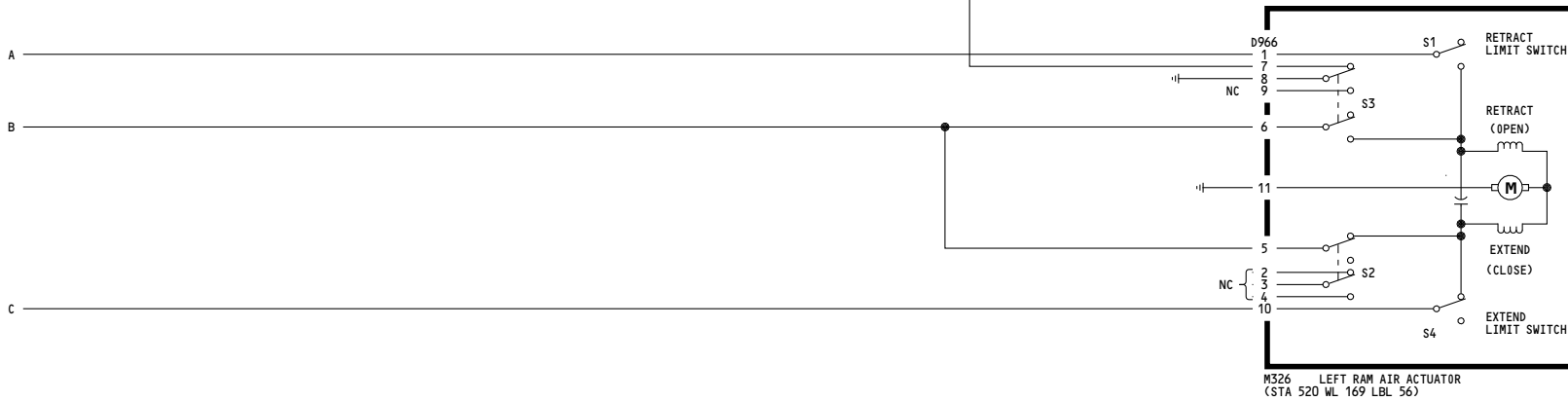
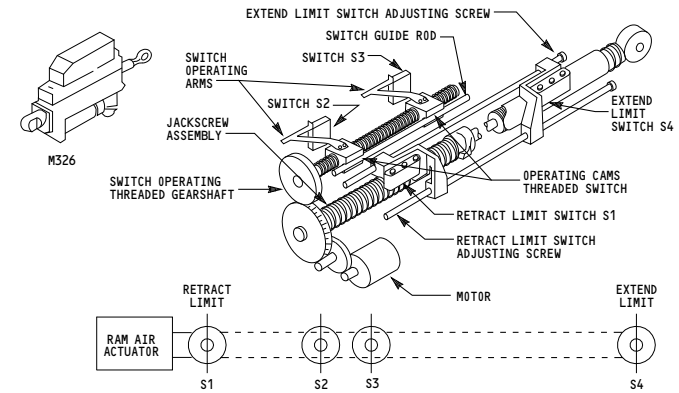
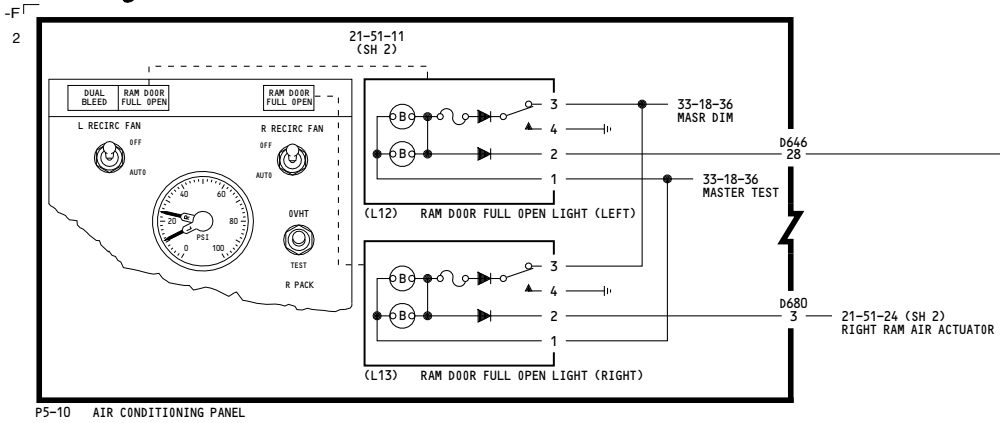


YC031-YC050, YK906-YK910, YK918, YL421-YL426

**LEFT RAM MODULATION CONTROL**

D280A203

**21-51-14**



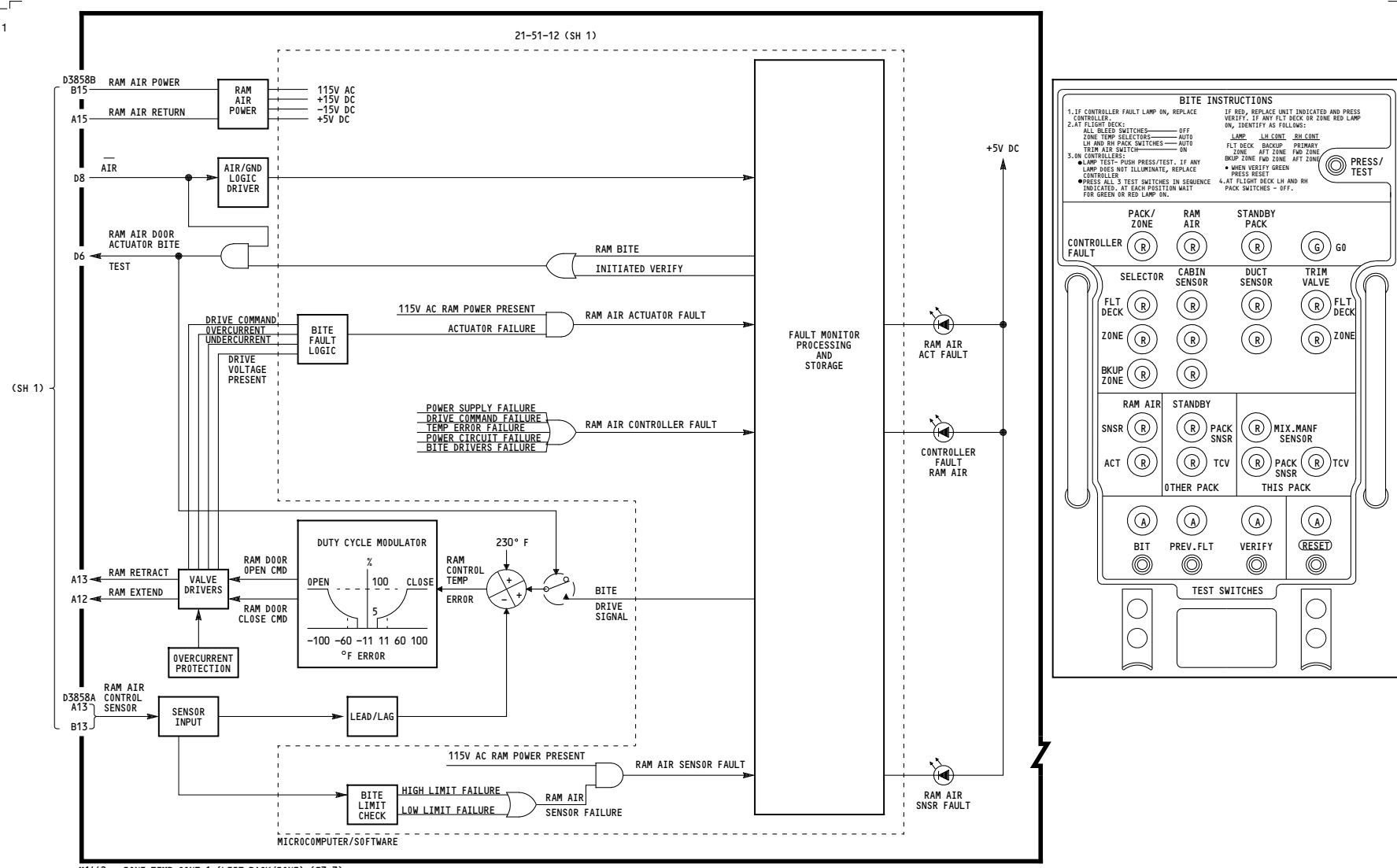
YC031-YC050, YK906-YK910, YK918, YL421-YL426

**LEFT RAM MODULATION CONTROL**

D280A203

**21-51-14**

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**BITE INSTRUCTIONS**

- IF CONTROLLER FAULT LAMP ON, REPLACE CONTROLLER.
- AT FLIGHT DECK:
  - ALL BLEED SWITCHES — OFF
  - ZONE TEMP SELECTORS — AUTO
  - LH AND RH PACK SWITCHES — AUTO
  - TRIM AIR SWITCHES — ON
- ON CONTROLLERS:
  - LAMP TEST — HIGH PRESS/TEST. IF ANY LAMP DOES NOT ILLUMINATE, REPLACE CONTROLLER.
  - PRESS ALL 3 TEST SWITCHES IN SEQUENCE INDICATED. AT EACH POSITION WAIT FOR GREEN OR RED LAMP ON.
- IF RED, REPLACE UNIT INDICATED AND PRESS VERIFY. IF ANY FLT DECK OR ZONE RED LAMP ON, IDENTIFY AS FOLLOWS:
  - LAMP — AIR CONT — RH CONT
  - FLT DECK — BACKUP — PRIMARY
  - ZONE — AFT ZONE FWD ZONE
  - BKUP ZONE FWD ZONE AFT ZONE
  - WHEN VERIFY GREEN PRESS RESET
  - AT FLIGHT DECK LH AND RH PACK SWITCHES — OFF.

**TEST SWITCHES**

CONTROLLER FAULT (R)	RAM AIR (R)	STANDBY PACK (R)	(G) GO
SELECTOR (R)	CABIN SENSOR (R)	DUCT SENSOR (R)	TRIM VALVE (R)
FLT DECK (R)	ZONE (R)	BKUP ZONE (R)	FLT DECK (R)
RAM AIR (R)	STANDBY (R)	PACK SNSR (R)	MIX MANF (R)
ACT (R)	OTHER PACK (R)	THIS PACK (R)	TCV (R)
BIT (A)	PREV. FLT (A)	VERIFY (A)	RESET (A)

M1442 ZONE TEMP CONT 1 (LEFT PACK/ZONE) (E3-3)

YC031-YC050, YK906-YK910, YK918, YL421-YL426

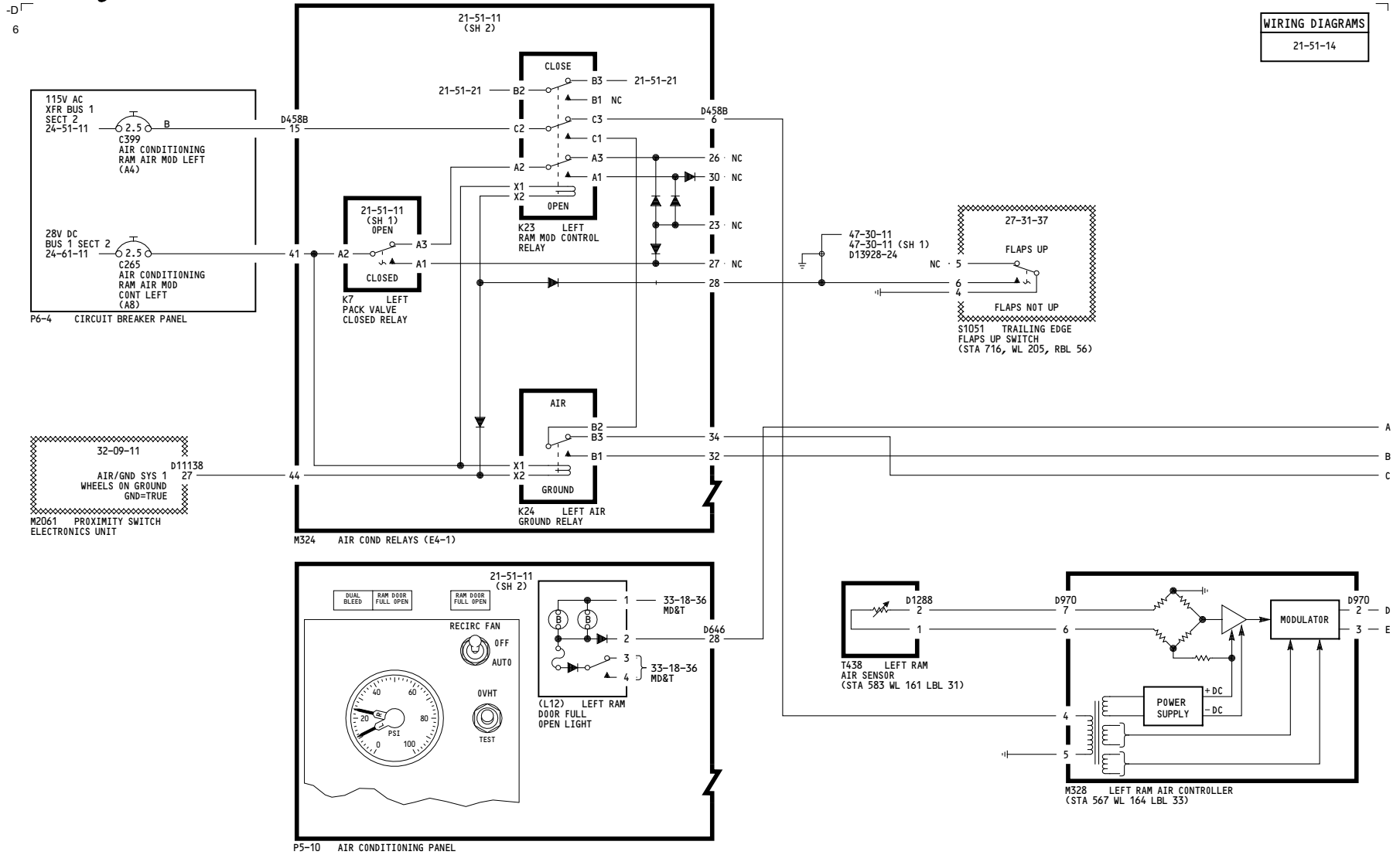
**LEFT RAM MODULATION CONTROL**

D280A203

**21-51-14**



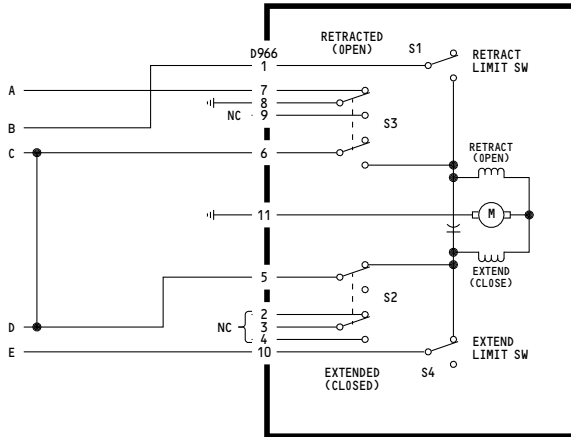
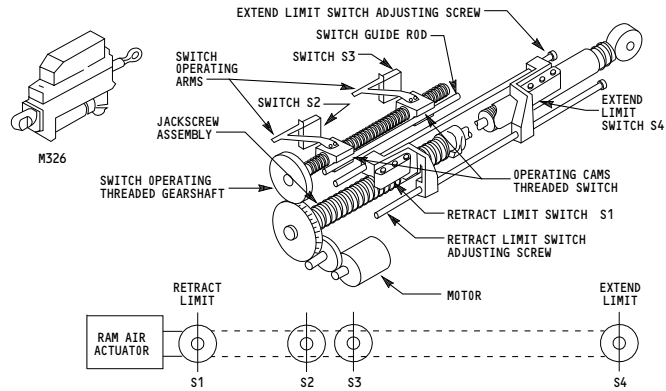
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YM643-YM649	<b>LEFT RAM MODULATION CONTROL</b>  D280A203
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**21-51-14**

-K  
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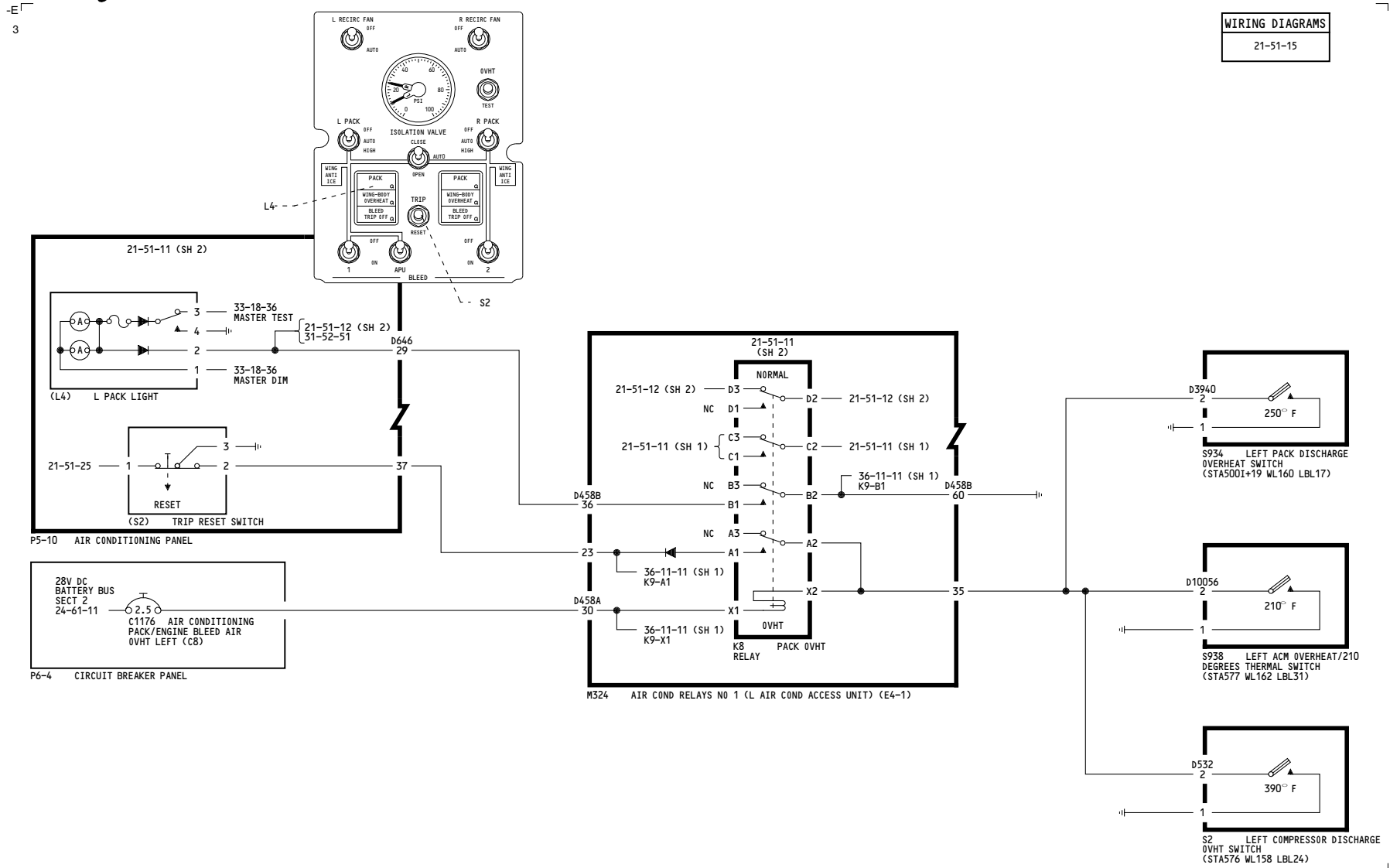


M326 LEFT RAM AIR ACTUATOR  
(STA 520 WL 169 LBL 56)

YM643-YM649	<p align="center"><b>LEFT RAM MODULATION CONTROL</b></p> <p align="center">D280A203</p>
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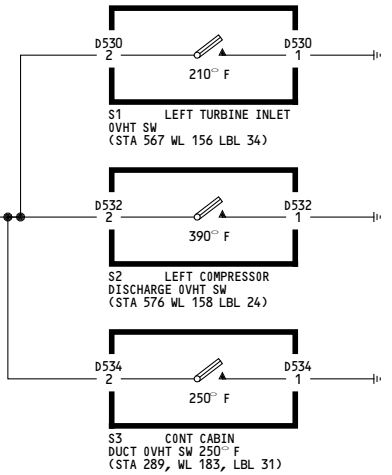
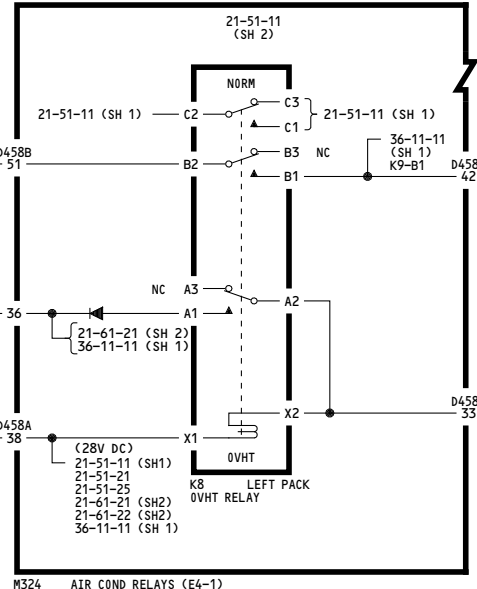
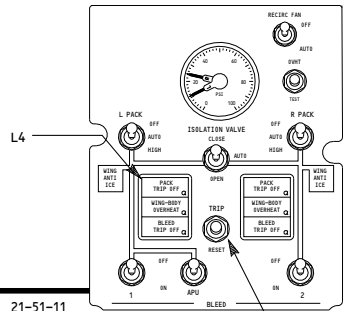
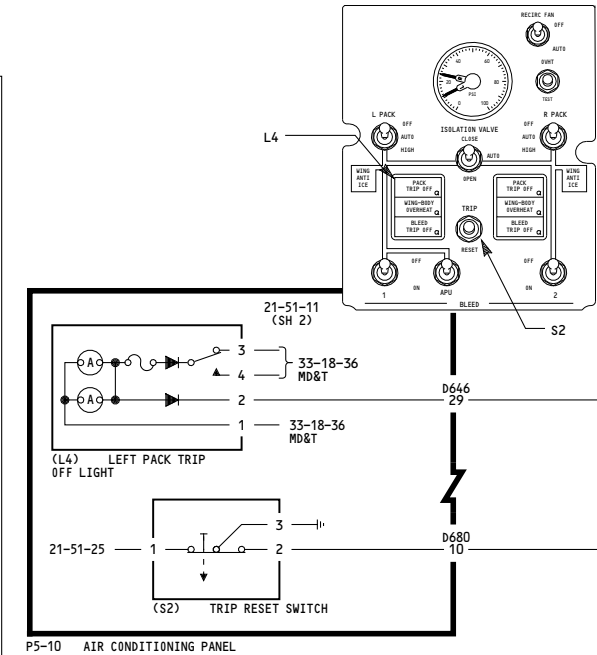
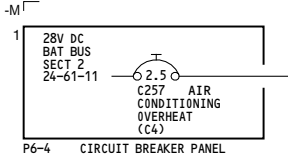
**21-51-14**

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YC001-YL430	<b>LEFT PACK PROTECTION</b>
	D280A203

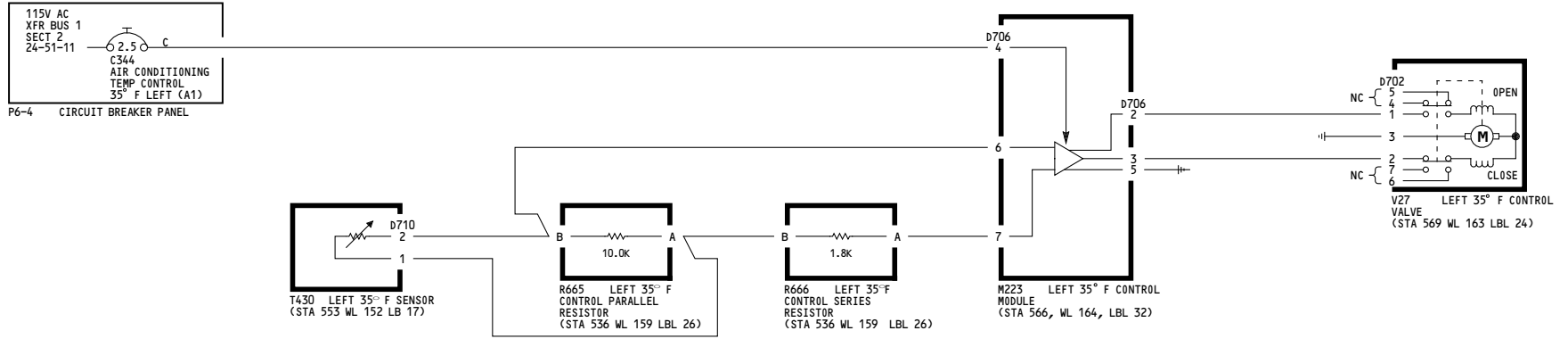
**21-51-15**



YM643-YM670	<p align="center"><b>LEFT PACK PROTECTION</b></p> <p align="center">D280A203</p>
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**21-51-15**

1



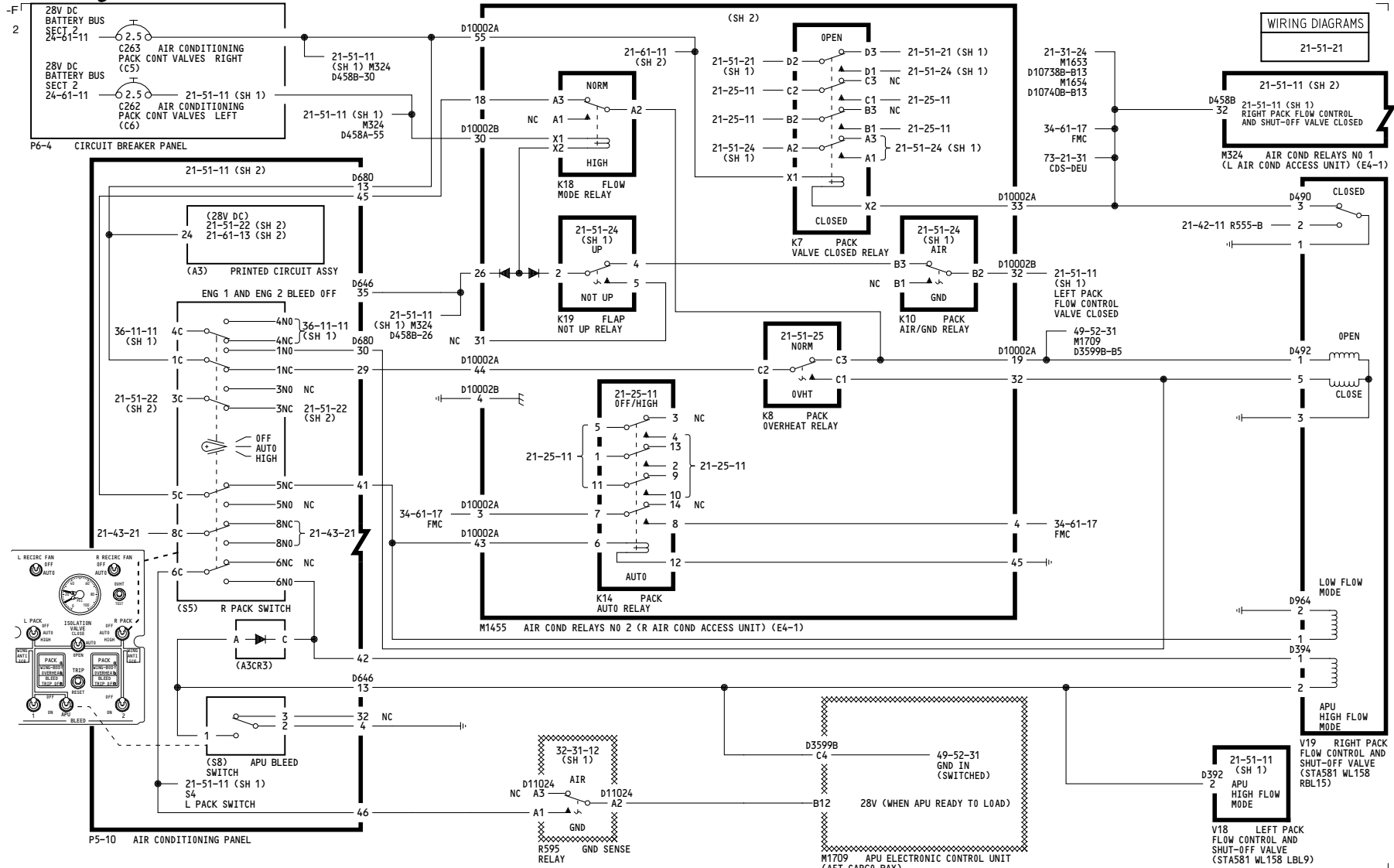
YM643-YM670	<p><b>LEFT WATER SEPARATOR 35 DEGREES FAHRENHEIT CONTROL</b></p> <p>D280A203</p>
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**21-51-16**

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Jan 14/2008

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WIRING DIAGRAMS  
21-51-21

21-51-11 (SH 2)  
21-51-11 (SH 1) M324  
D458B-30  
D458A-55  
M324 AIR COND RELAYS NO 1  
(L AIR COND ACCESS UNIT) (E4-1)

D458B 32  
21-51-11 (SH 1)  
RIGHT PACK FLOW CONTROL  
AND SHUT-OFF VALVE CLOSED

D490 3  
CLOSED  
21-42-11 R555-B 2  
1

D492 1  
OPEN  
5  
3  
CLOSE

D964 2  
LOW FLOW  
MODE  
1  
D394 1  
2

D392 2  
21-51-11 (SH 1)  
APU HIGH FLOW  
MODE  
V19 RIGHT PACK  
FLOW CONTROL AND  
SHUT-OFF VALVE  
(STA581 WL158  
RBL15)

V18 LEFT PACK  
FLOW CONTROL AND  
SHUT-OFF VALVE  
(STA581 WL158  
LBL9)

YC001-YC028

**RIGHT PACK VALVE CONTROL**

D280A203

**21-51-21**



-B  
1

D10002A		21-25-11		D10002B	
36-11-11 (SH 2)	1	ENG 2 BLEED VALVE CLOSE CMD	21-51-11 (SH 1)	1	NC
	2	ENG 2 BLEED VALVE OPEN CMD	21-51-21 (SH 1)	2	NC
34-61-17	3	R PACK AUTO	21-51-22 (SH 1)	3	DC GROUND
36-11-11 (SH 2)	4	R PACK AUTO	21-51-22 (SH 2)	4	CASE GROUND
21-25-11	5	ENG 2 START	21-51-24 (SH 1)	5	NC
	6	L RECIRC FAN ENABLE	21-61-11 (SH 2)	6	NC
36-11-11 (SH 2)	7	ENG 2 BLEED VALVE DRIVE CMD	21-61-12 (SH 1)	7	NC
21-25-11	8	L RECIRC FAN ENABLE	21-61-13 (SH 2)	8	NC
	9		36-11-11 (SH 2)	9	NC
	10		34-61-17	10	NC
21-61-13 (SH 2)	11	PRIMARY FWD ZONE FAULT		11	NC
21-51-24 (SH 1)	12	R RAM AIR ACTUATOR RETRACT CMD (IN)		12	NC
	13	R RAM AIR ACTUATOR EXTEND CMD (IN)		13	NC
21-25-11	14	L RECIRC FAN ENABLE		14	R RECIRC FAN ENABLE
21-61-12 (SH 1)	15	L RECIRC FAN ENABLE		15	R RECIRC FAN ENABLE
21-25-11	16	BACKUP FLIGHT DECK FAULT		16	R RECIRC FAN ENABLE
21-51-21 (SH 1)	17	L RECIRC FAN ENABLE		17	NC
	18	28V DC OUT IN AUTO		18	NC
	19	R PACK VALVE OPEN CMD		19	NC
	20	R TURBOFAN VALVE PWR (28V DC)		20	FWD ZONE OVHT PWR (28V DC)
	21	R RAM AIR ACTUATOR MODE SW INPUT		21	NC
	22			22	NC
21-51-24 (SH 1)	23	R RAM AIR ACTUATOR EXTEND CMD (OUT)		23	BLEEN TRIP RESET IN
21-61-12 (SH 1)	24	R RAM AIR ACTUATOR DRIVE CMD		24	ENG 2 BLEED VALVE OPEN
21-61-11 (SH 2)	25	FLT DK TRIM VALVE OPEN DRIVE CMD (IN)		25	NC
	26	FLT DK TRIM VALVE OPEN DRIVE CMD (OUT)		26	BOTH ENG BLEEDS OFF (IN) GND
	27	FLT DK TRIM VALVE CLOSE DRIVE CMD (OUT)		27	NC
	28			28	R RECIRC FAN ENABLE
21-25-11	29	L RECIRC FAN ENABLE		29	R RECIRC FAN ENABLE
21-51-25	30	28V DC BLEED AIR OVHT PWR		30	L PACK VALVES PWR (28V DC)
	31	R TURBO FAN VALVE LIMIT SW		31	NC
21-51-21 (SH 1)	32	R PACK VALVE CLOSE CMD		32	L PACK VALVE CLOSED
	33	R PACK VALVE CLOSED		33	GND WHEN FLAPS NOT UP
	34	R RAM AIR ACTUATOR MODE SW INPUT		34	FWD ZONE TRIM DISABLE
21-51-24 (SH 1)	35	GND WHEN AIR/GND TO GND		35	R PACK OVHT (IN)
21-61-12 (SH 1)	36	R RAM AIR ACTUATOR RETRACT CMD (OUT)		36	R PACK LIGHT
	37	FLT DK TRIM VALVE CLOSE DRIVE CMD (IN)		37	NC
	38			38	NC
	39			39	NC
	40			40	NC
	41			41	FLT DK TRIM VALVE CLOSE DRIVE CMD (IN)
	42			42	NC
21-51-21 (SH 1)	43	28V DC IN AUTO		43	NC
	44	28V DC IN (AUTO OR HIGH)		44	NC
	45	DC GROUND		45	R BLEED TRIP OFF LIGHT
21-51-22 (SH 2)	46	GND IN (AUTO OR HIGH)		46	NC
21-51-24 (SH 1)	47	R RAM AIR ACTUATOR BITE ENABLE		47	NC
	48			48	FWD ZONE OVHT (IN)
21-51-24 (SH 1)	49	R RAM MOD PWR (115V AC)		49	FWD ZONE OVHT (OUT)
21-51-22 (SH 2)	50	R PACK TCV CLOSE DRIVE CMD (IN)		50	NC
	51	FWD ZONE TRIM VALVE CLOSE DRIVE CMD (OUT)		51	NC
	52	FWD ZONE TRIM VALVE OPEN DRIVE CMD (OUT)		52	NC
21-61-13 (SH 2)	53	FWD ZONE TRIM VALVE CLOSE DRIVE CMD (IN)		53	NC
	54	FWD ZONE TRIM VALVE OPEN DRIVE CMD (IN)		54	NC
21-51-21 (SH 1)	55	R PACK VALVES PWR (28V DC)		55	NC
21-51-22 (SH 1)	56	GND IN (AUTO OR HIGH)		56	NC
	57			57	NC
21-51-22 (SH 2)	58	R PACK INOP (IN)		58	NC
21-51-24 (SH 1)	59	R RAM MOD CONTROL PWR (28V DC)		59	NC
	60	R TURBOFAN VALVE CLOSE CMD		60	DC GROUND
21-51-24 (SH 1)	61	GND OUT (AIR/GND = GND)		61	NC
	62	R TURBOFAN VALVE LIMIT SW		62	NC
	63	R PACK TCV CLOSE DRIVE CMD (OUT)		63	NC
21-51-22 (SH 2)	64	R PACK TCV OPEN DRIVE CMD (OUT)		64	NC
	65	R PACK TCV OPEN DRIVE CMD (IN)		65	NC
	66	R PACK TCV CLOSE DRIVE CMD (IN)		66	NC
21-61-13 (SH 2)	67	FWD ZONE TRIM VALVE CLOSE DRIVE CMD (IN)		67	NC

M1455 AIR COND RELAYS NO. 2 (R AIR COND ACCESS UNIT) (E4-1)

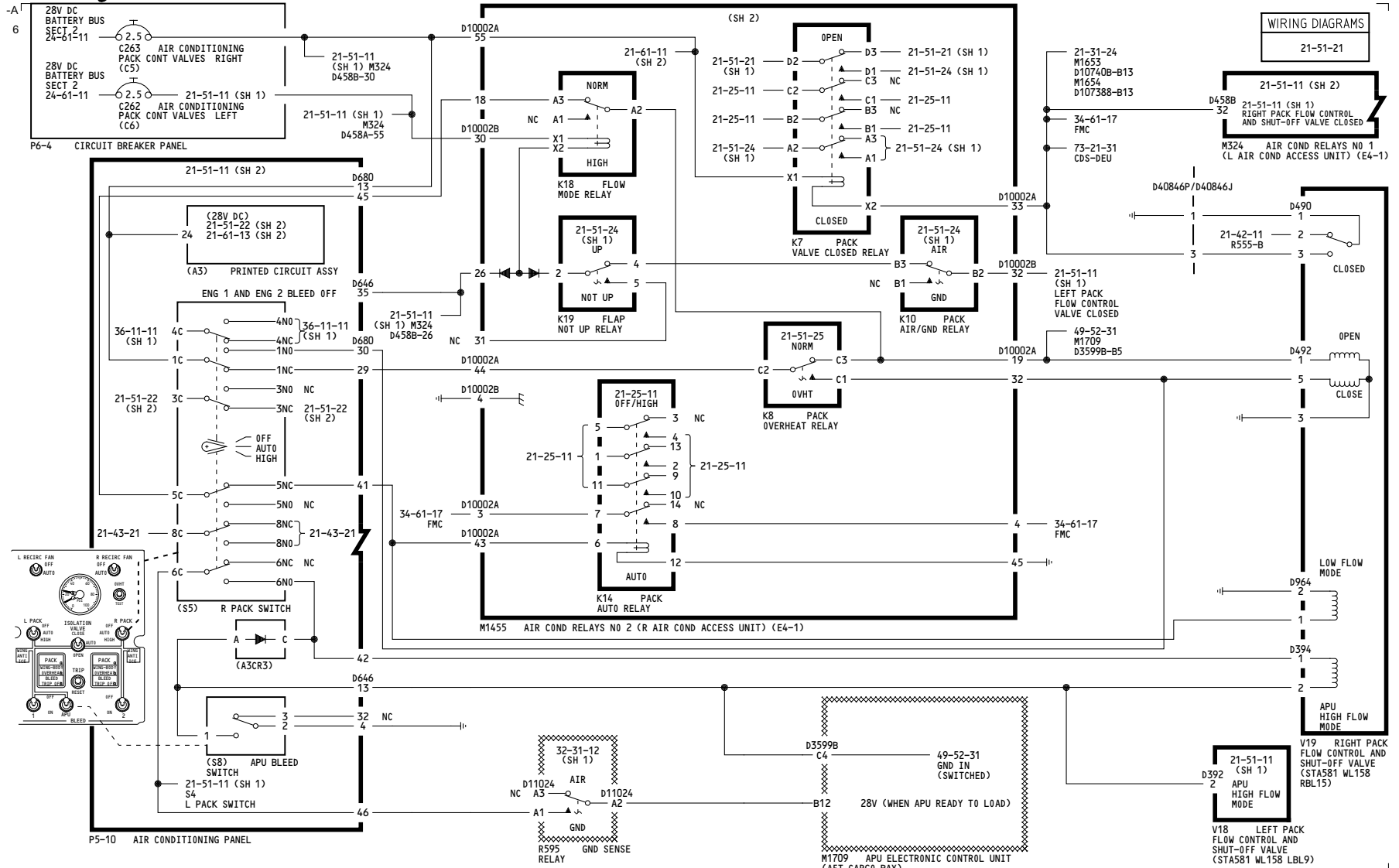
YC001-YC028

RIGHT PACK VALVE CONTROL

D280A203

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WIRING DIAGRAMS  
21-51-21

YC029-YL430

RIGHT PACK VALVE CONTROL

D280A203

**21-51-21**

-B  
1

D10002A		21-25-11	D10002B	
36-11-11 (SH 2)	1	ENG 2 BLEED VALVE CLOSE CMD	1	NC
	2	ENG 2 BLEED VALVE OPEN CMD	2	NC
34-61-17	3	R PACK AUTO	3	21-51-24 (SH 1)
36-11-11 (SH 2)	4	R PACK AUTO	4	21-51-21 (SH 1)
21-25-11	5	ENG 2 START	5	NC
	6	L RECIRC FAN ENABLE	6	NC
36-11-11 (SH 2)	7	ENG 2 BLEED VALVE DRIVE CMD	7	NC
21-25-11	8	L RECIRC FAN ENABLE	8	NC
	9		9	NC
	10		10	NC
21-61-13 (SH 2)	11	PRIMARY FWD ZONE FAULT	11	NC
21-51-24 (SH 1)	12	R RAM AIR ACTUATOR RETRACT CMD (IN)	12	NC
	13	R RAM AIR ACTUATOR EXTEND CMD (IN)	13	NC
	14	L RECIRC FAN ENABLE	14	R RECIRC FAN ENABLE
21-25-11	15	L RECIRC FAN ENABLE	15	21-25-11
21-61-12 (SH 1)	16	BACKUP FLIGHT DECK FAULT	16	R RECIRC FAN ENABLE
21-25-11	17	L RECIRC FAN ENABLE	17	NC
21-51-21 (SH 1)	18	28V DC OUT IN AUTO	18	NC
	19	R PACK VALVE OPEN CMD	19	NC
	20	R TURBOFAN VALVE PWR (28V DC)	20	FWD ZONE OVHT PWR (28V DC)
	21	R RAM AIR ACTUATOR MODE SW INPUT	21	21-61-13 (SH 2)
	22		22	NC
21-51-24 (SH 1)	23	R RAM AIR ACTUATOR EXTEND CMD (OUT)	23	NC
21-61-12 (SH 1)	24	R RAM AIR ACTUATOR DRIVE CMD	24	BLEEN TRIP RESET IN
21-61-11 (SH 2)	25	FLT DK TRIM VALVE OPEN DRIVE CMD (IN)	25	ENG 2 BLEED VALVE OPEN
	26	FLT DK TRIM VALVE OPEN DRIVE CMD (OUT)	26	NC
	27	FLT DK TRIM VALVE CLOSE DRIVE CMD (OUT)	27	BOTH ENG BLEEDS OFF (IN) GND
	28		28	NC
21-25-11	29	L RECIRC FAN ENABLE	29	R RECIRC FAN ENABLE
21-51-25	30	28V DC BLEED AIR OVHT PWR	30	R RECIRC FAN ENABLE
	31	R TURBO FAN VALVE LIMIT SW	31	21-25-11
21-51-21 (SH 1)	32	R PACK VALVE CLOSE CMD	32	L PACK VALVES PWR (28V DC)
	33	R PACK VALVE CLOSED	33	NC
	34	R RAM AIR ACTUATOR MODE SW INPUT	34	L PACK VALVE CLOSED
21-51-24 (SH 1)	35	GND WHEN AIR/GND TO GND	35	GND WHEN FLAPS NOT UP
21-61-12 (SH 1)	36	R RAM AIR ACTUATOR RETRACT CMD (OUT)	36	FWD ZONE TRIM DISABLE
	37	FLT DK TRIM VALVE CLOSE DRIVE CMD (IN)	37	R PACK OVHT (IN)
	38		38	R PACK LIGHT
	39		39	NC
	40		40	NC
	41		41	NC
	42		42	21-61-11 (SH 2)
21-51-21 (SH 1)	43	28V DC IN AUTO	43	NC
	44	28V DC IN (AUTO OR HIGH)	44	NC
	45	DC GROUND	45	R BLEED TRIP OFF LIGHT
21-51-22 (SH 2)	46	GND IN (AUTO OR HIGH)	46	NC
21-51-24 (SH 1)	47	R RAM AIR ACTUATOR BITE ENABLE	47	NC
	48		48	21-61-13 (SH 2)
21-51-24 (SH 1)	49	R RAM MOD PWR (115V AC)	49	FWD ZONE OVHT (IN)
21-51-22 (SH 2)	50	R PACK TCV CLOSE DRIVE CMD (IN)	50	FWD ZONE OVHT (OUT)
	51	FWD ZONE TRIM VALVE CLOSE DRIVE CMD (OUT)	51	NC
21-61-13 (SH 2)	52	FWD ZONE TRIM VALVE OPEN DRIVE CMD (OUT)	52	NC
	53	FWD ZONE TRIM VALVE CLOSE DRIVE CMD (IN)	53	NC
	54	FWD ZONE TRIM VALVE OPEN DRIVE CMD (IN)	54	NC
21-51-21 (SH 1)	55	R PACK VALVES PWR (28V DC)	55	NC
21-51-22 (SH 1)	56	GND IN (AUTO OR HIGH)	56	NC
	57		57	NC
21-51-22 (SH 2)	58	R PACK INOP (IN)	58	NC
21-51-24 (SH 1)	59	R RAM MOD CONTROL PWR (28V DC)	59	NC
	60	R TURBOFAN VALVE CLOSE CMD	60	DC GROUND
21-51-24 (SH 1)	61	GND OUT (AIR/GND = GND)	61	21-51-25
	62	R TURBOFAN VALVE LIMIT SW	62	NC
	63	R PACK TCV CLOSE DRIVE CMD (OUT)	63	NC
21-51-22 (SH 2)	64	R PACK TCV OPEN DRIVE CMD (OUT)	64	NC
	65	R PACK TCV OPEN DRIVE CMD (IN)	65	NC
	66	R PACK TCV CLOSE DRIVE CMD (IN)	66	NC
21-61-13 (SH 2)	67	FWD ZONE TRIM VALVE CLOSE DRIVE CMD (IN)	67	NC

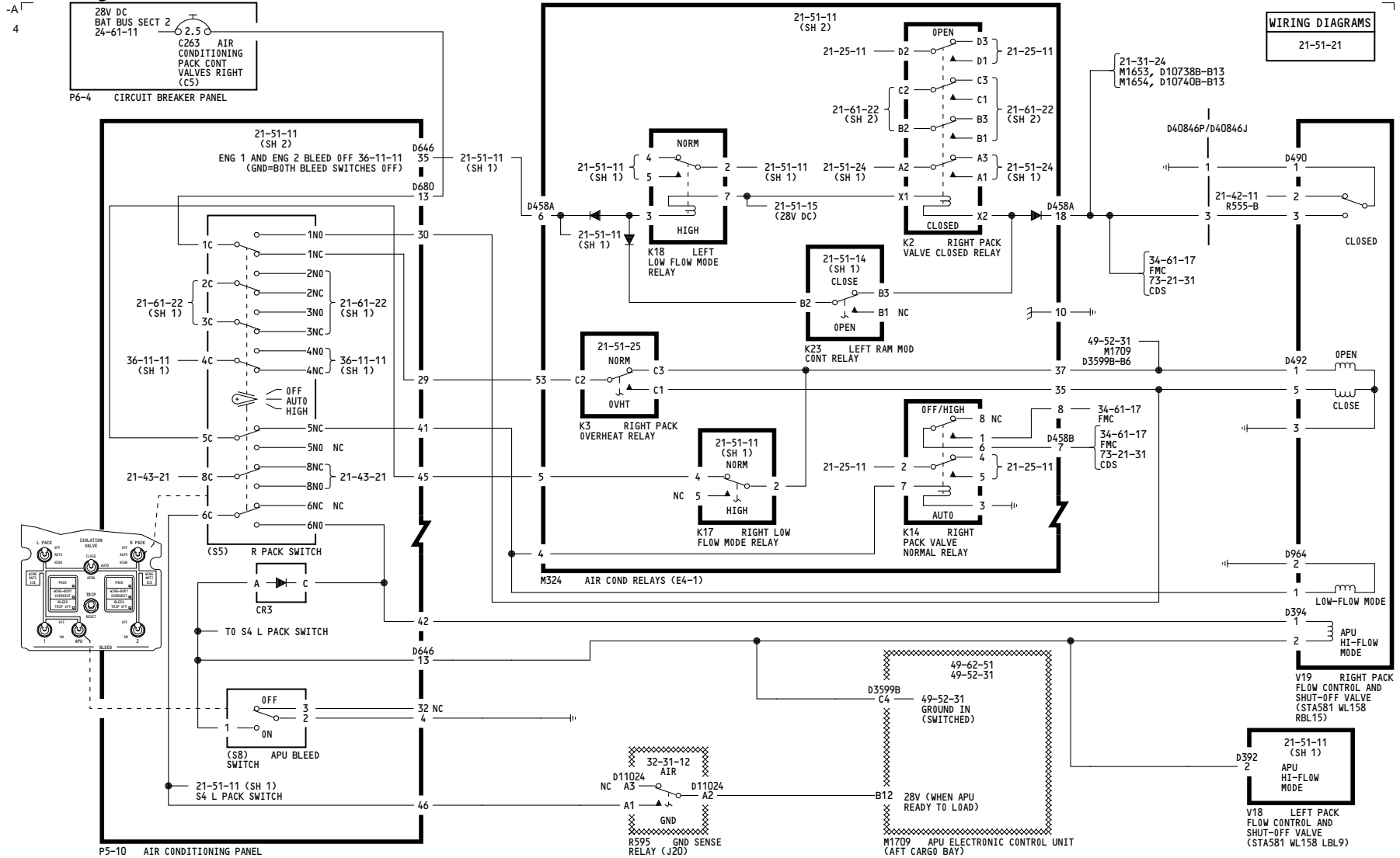
M1455 AIR COND RELAYS NO. 2 (R AIR COND ACCESS UNIT) (E4-1)

YC029-YL430

RIGHT PACK VALVE CONTROL

D280A203

21-51-21



YM643-YM670

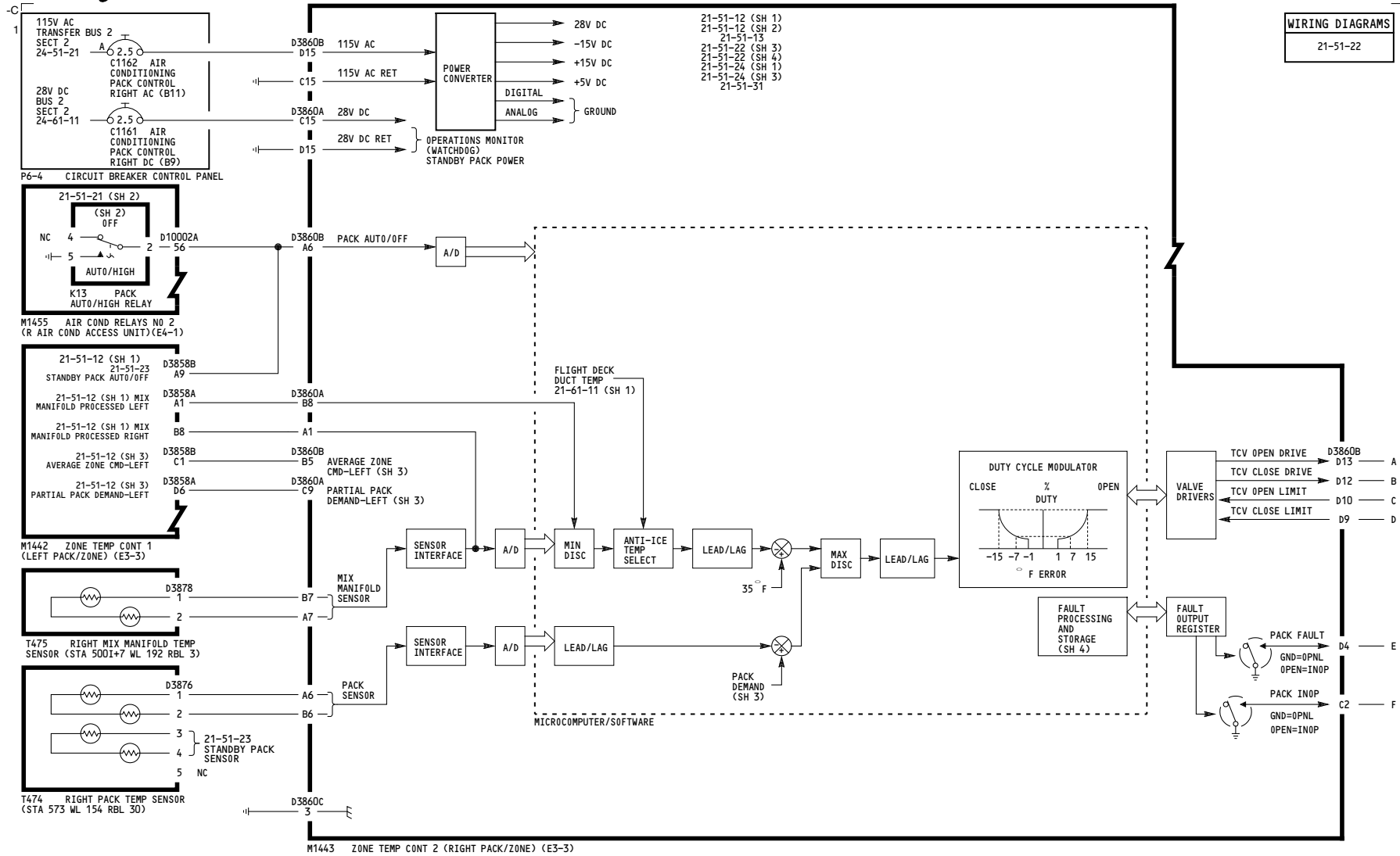
RIGHT PACK VALVE CONTROL

D280A203

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WIRING DIAGRAMS  
21-51-22

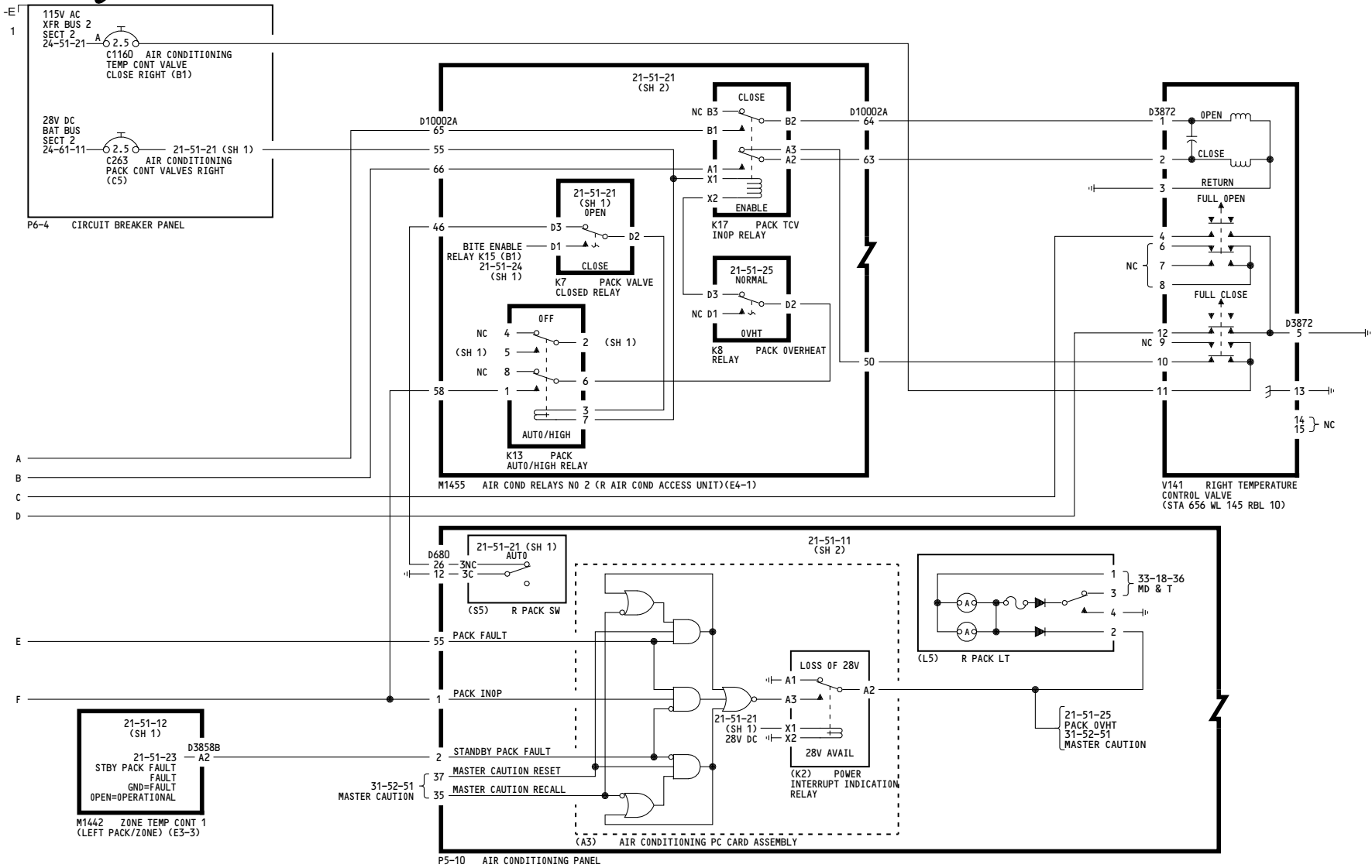


YC001-YC022

**RIGHT AIR CONDITIONING PACK CONTROL - AUTO**

D280A203

**21-51-22**



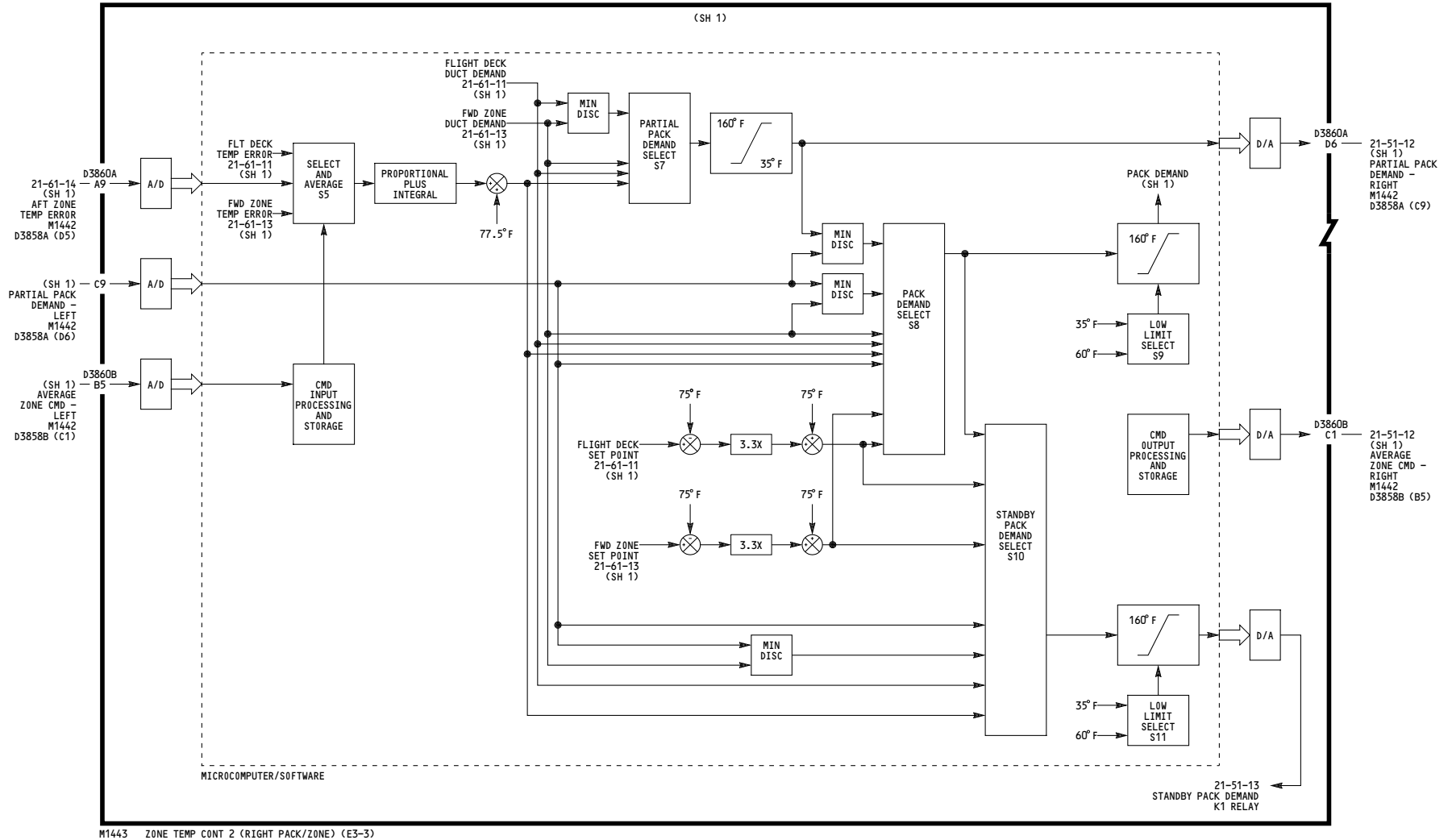
YC001-YC022

**RIGHT AIR CONDITIONING PACK CONTROL - AUTO**

D280A203

**21-51-22**

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YC001-YC022

**RIGHT AIR CONDITIONING  
PACK CONTROL - AUTO**

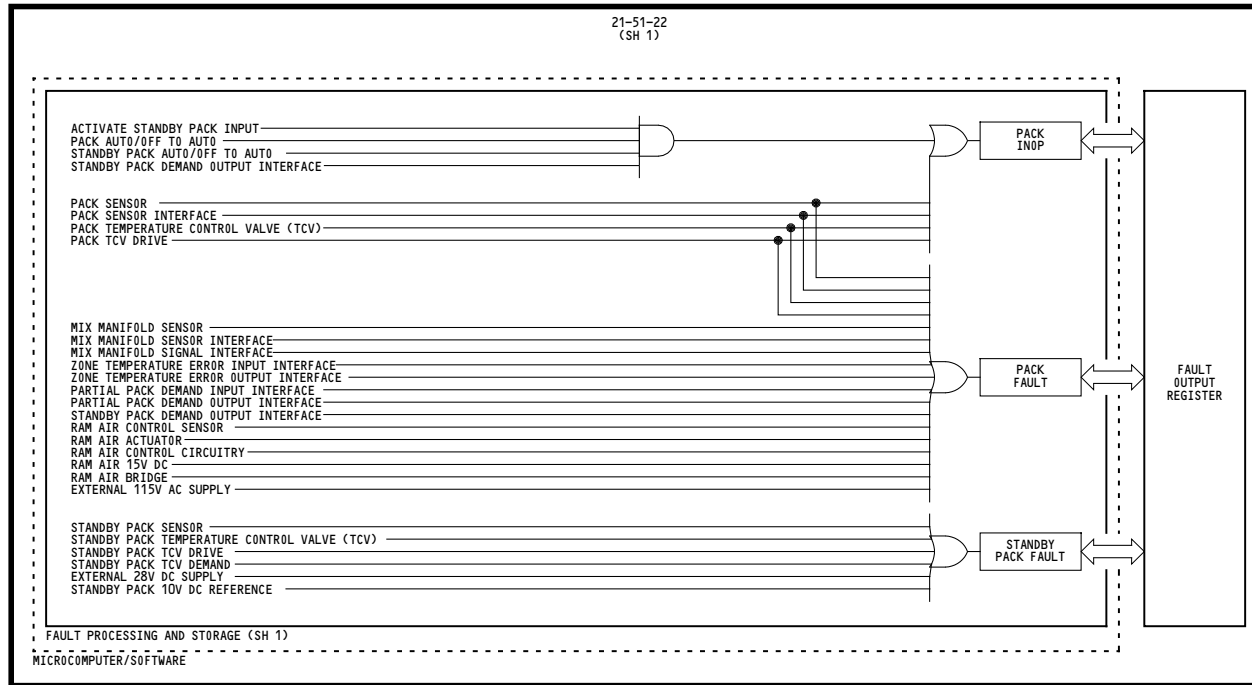
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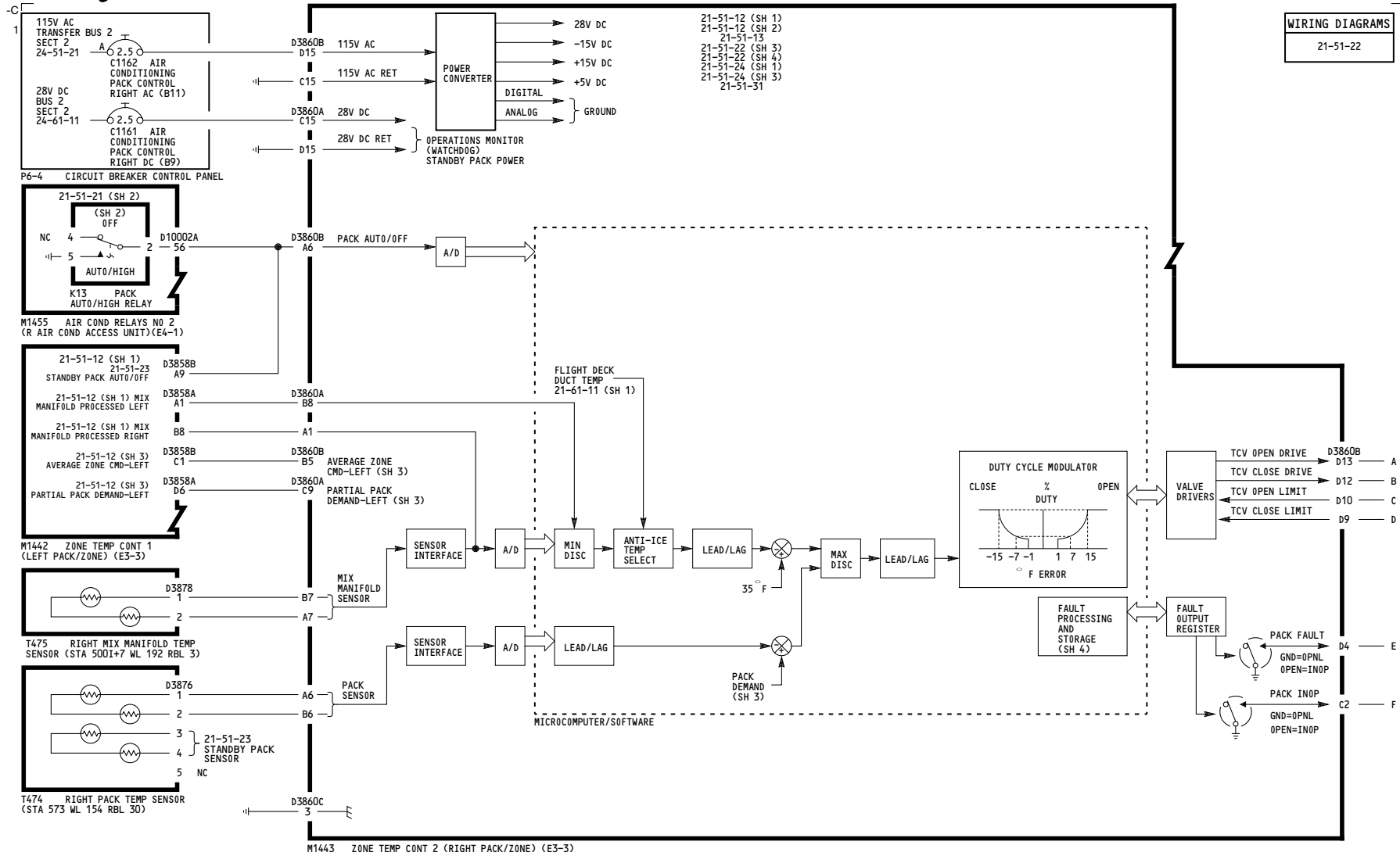
M1443 ZONE TEMPERATURE CONTROL 2 (RIGHT PACK/ZONE) (E3-3)

YC001-YC022	<b>RIGHT AIR CONDITIONING PACK CONTROL - AUTO</b>
D280A203	

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WIRING DIAGRAMS  
21-51-22



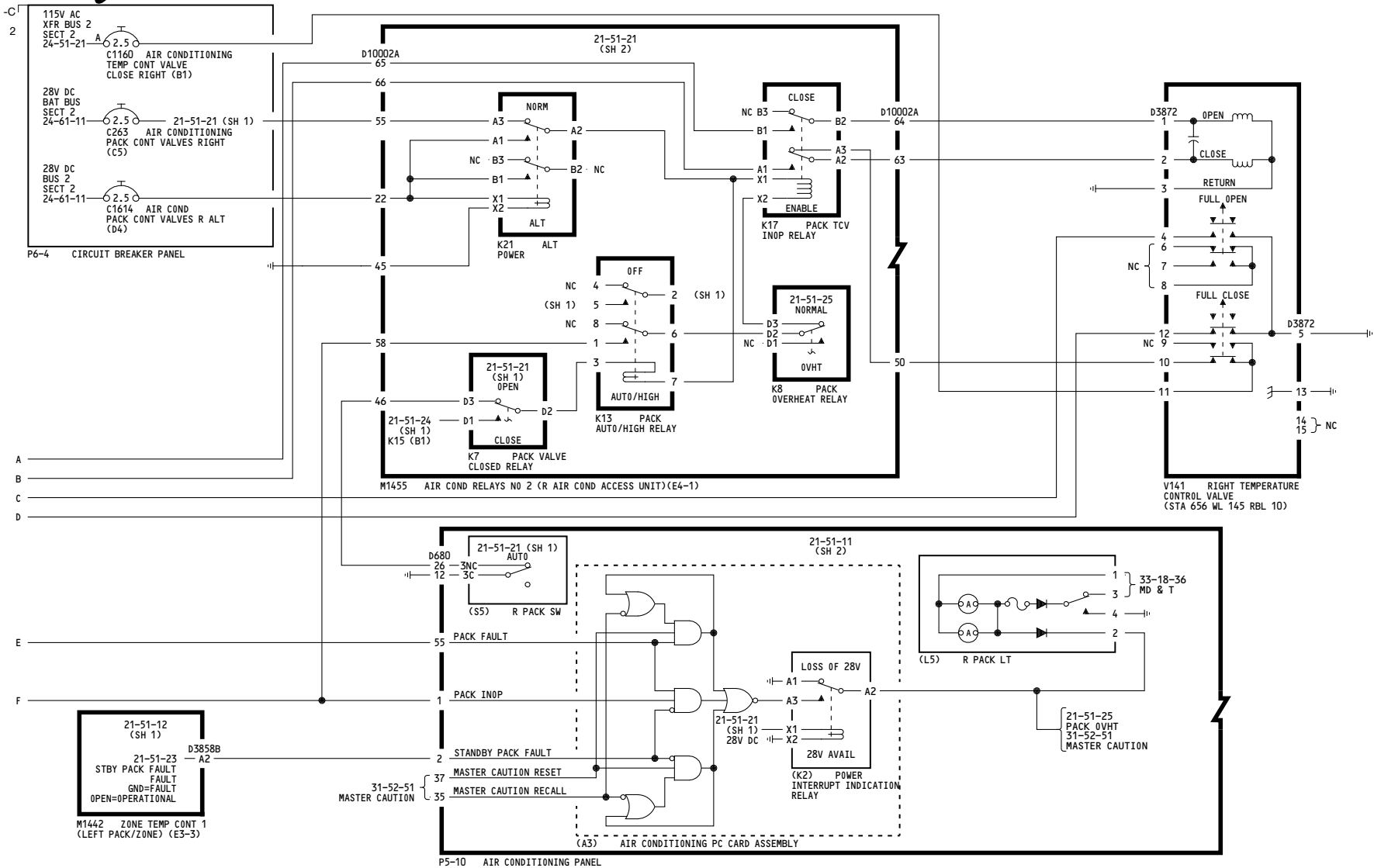
YC001-YC022

**RIGHT AIR CONDITIONING PACK CONTROL - AUTO**

D280A203

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YC001-YC022

**RIGHT AIR CONDITIONING  
PACK CONTROL - AUTO**

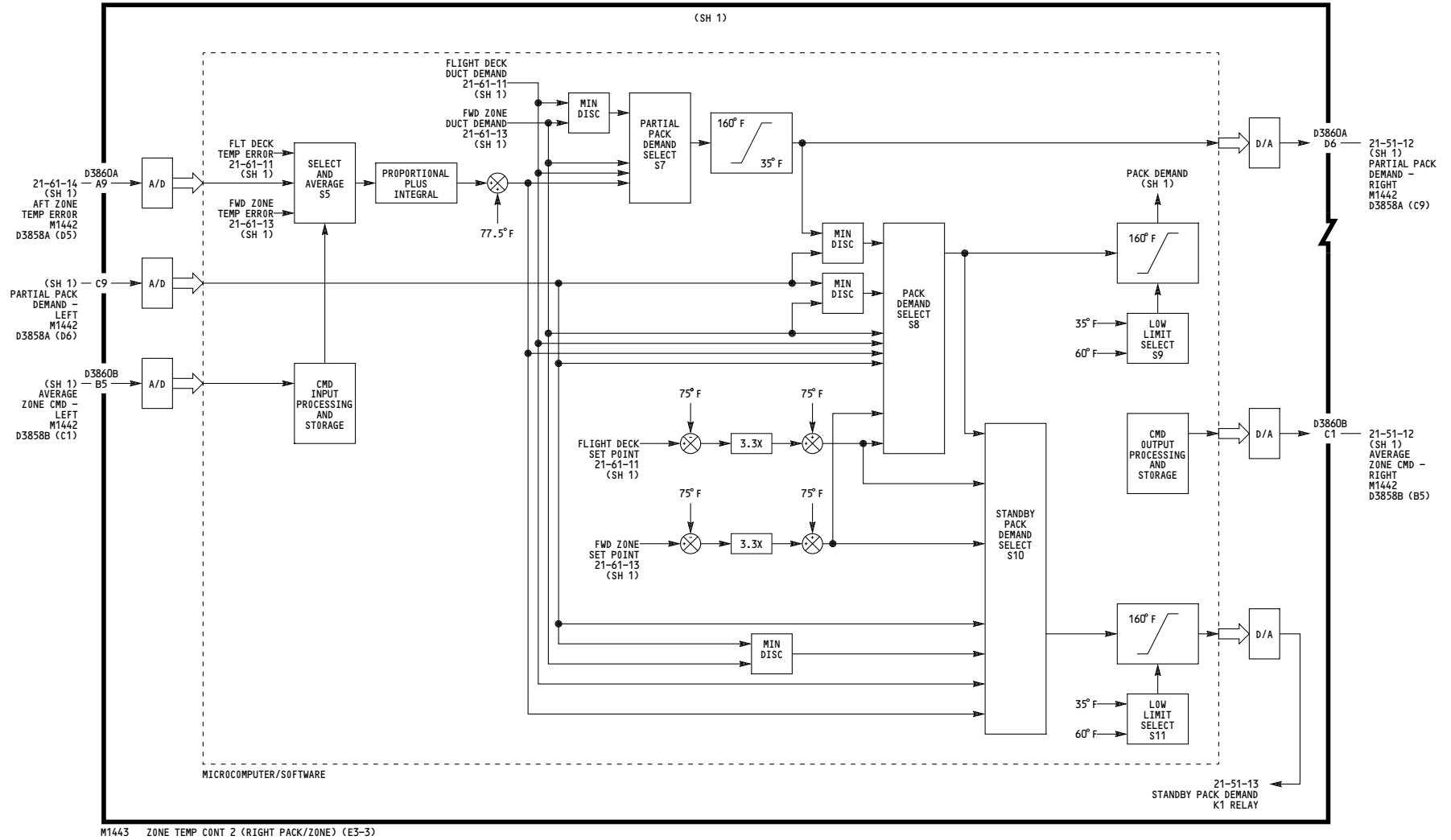
Incorporates  
21-1133

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1

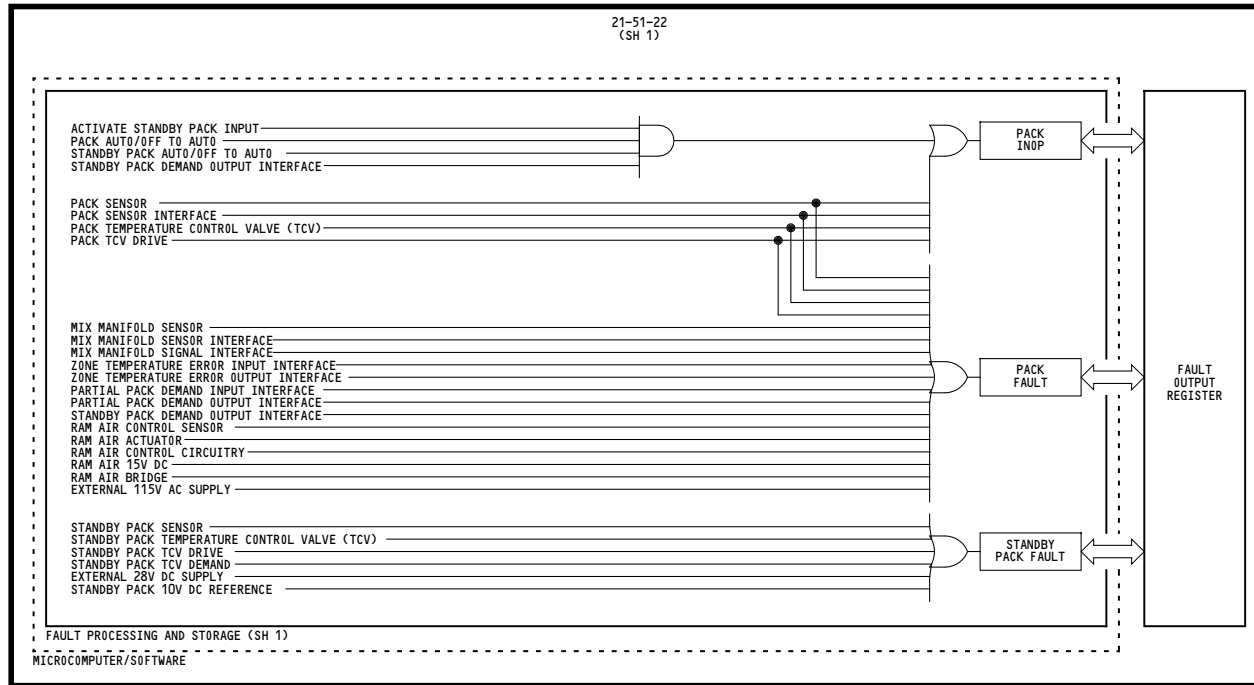


M1443 ZONE TEMP CONT 2 (RIGHT PACK/ZONE) (E3-3)

<p>YC001-YC022</p>	<p><b>RIGHT AIR CONDITIONING PACK CONTROL - AUTO</b></p> <p>D280A203</p>
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**21-51-22**

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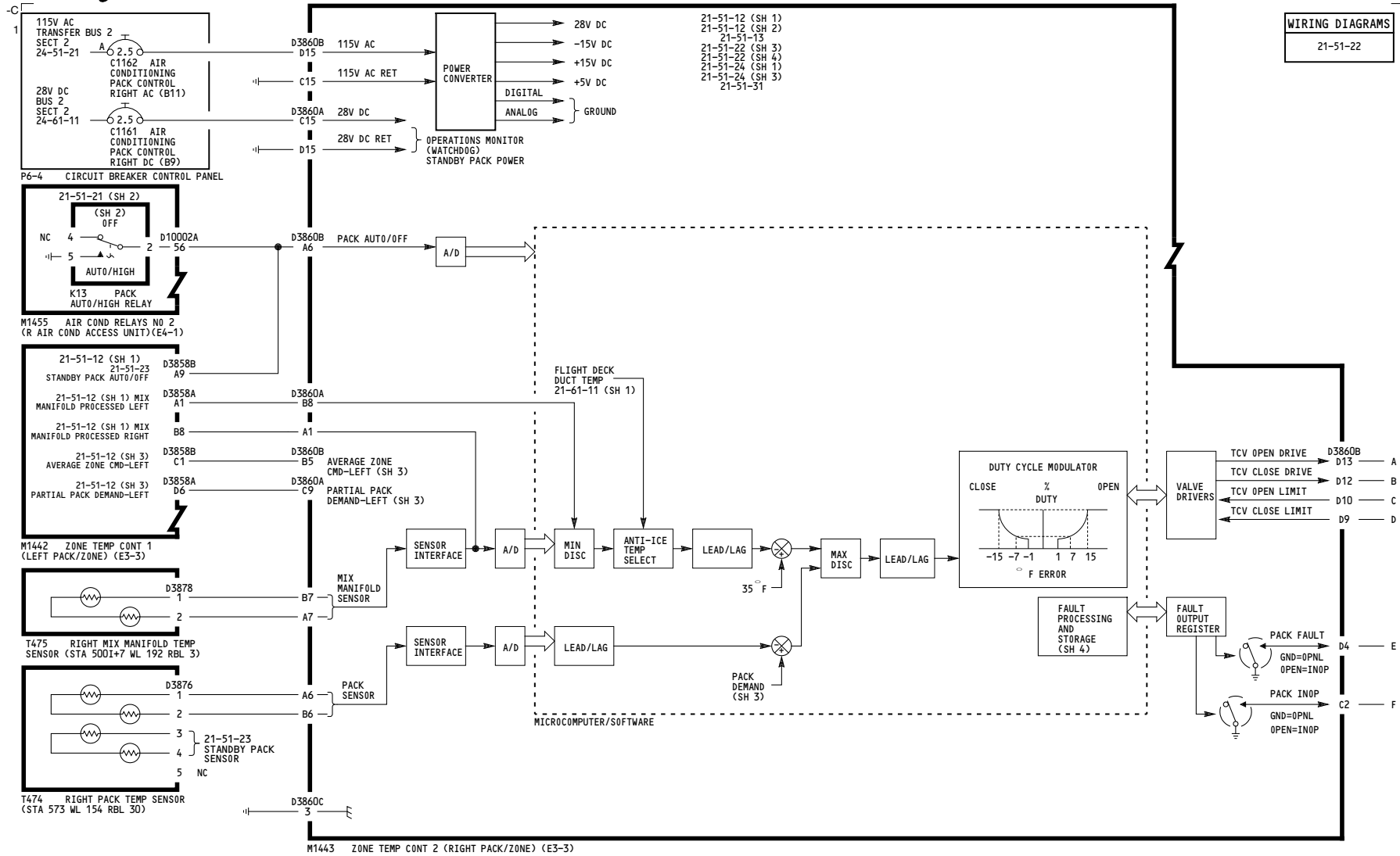
M1443 ZONE TEMPERATURE CONTROL 2 (RIGHT PACK/ZONE) (E3-3)

YC001-YC022	<p style="text-align: center;"><b>RIGHT AIR CONDITIONING PACK CONTROL - AUTO</b></p> <p style="text-align: center;">D280A203</p>
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WIRING DIAGRAMS  
21-51-22

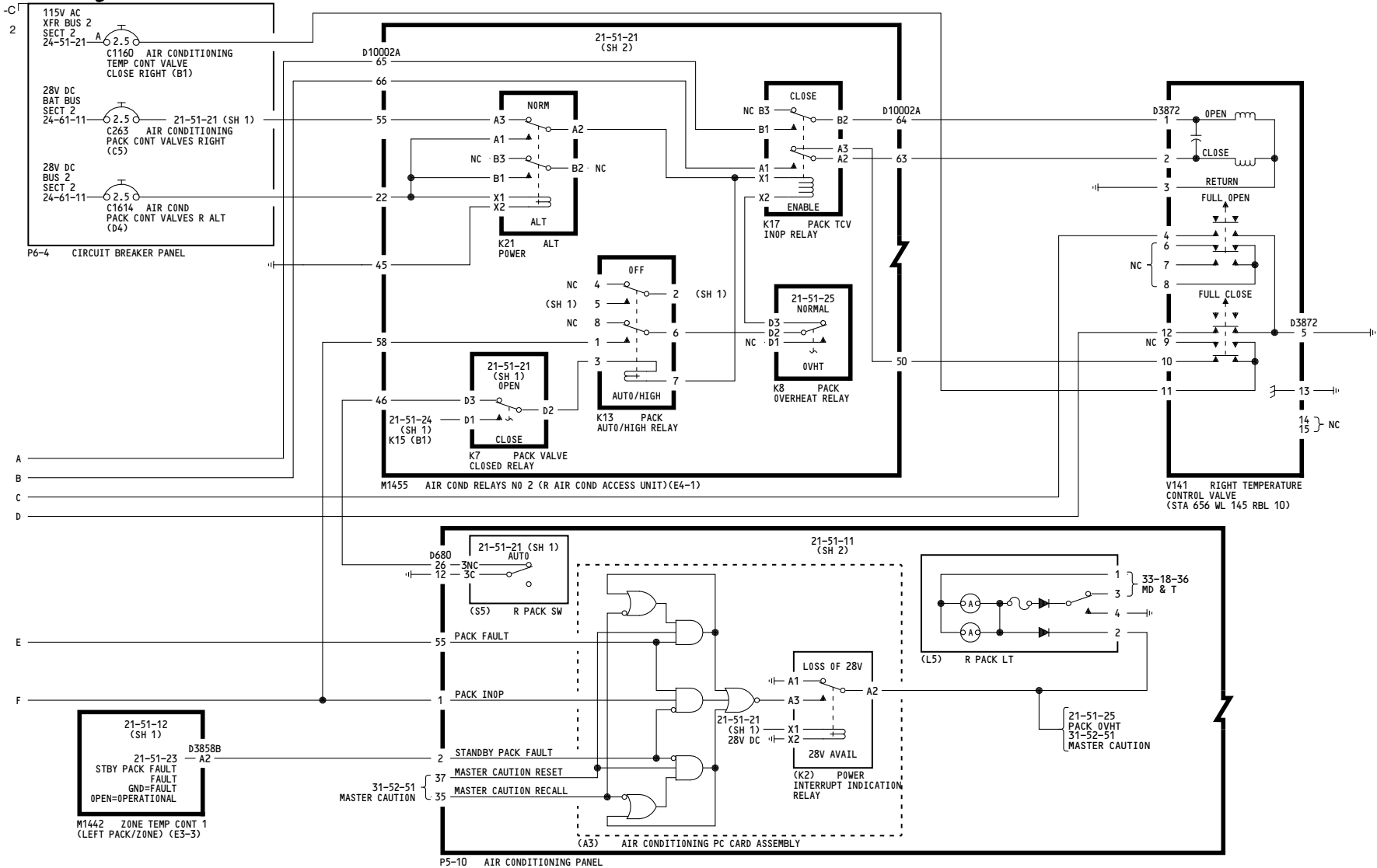


YC023-YL430

**RIGHT AIR CONDITIONING PACK CONTROL - AUTO**

D280A203

**21-51-22**



YC023-YL430

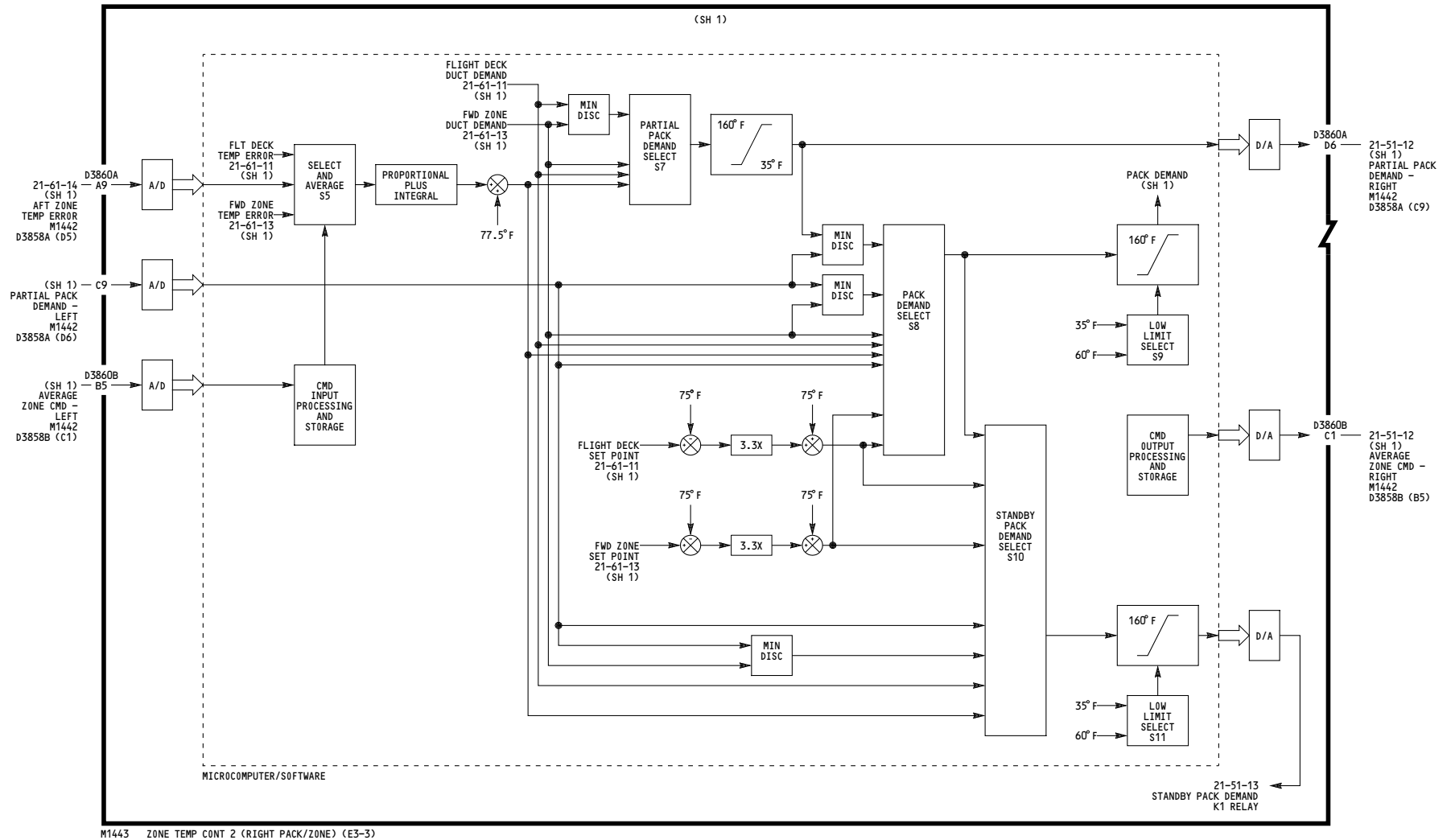
RIGHT AIR CONDITIONING PACK CONTROL - AUTO

D280A203

21-51-22

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Feb 09/2009

-A-  
1



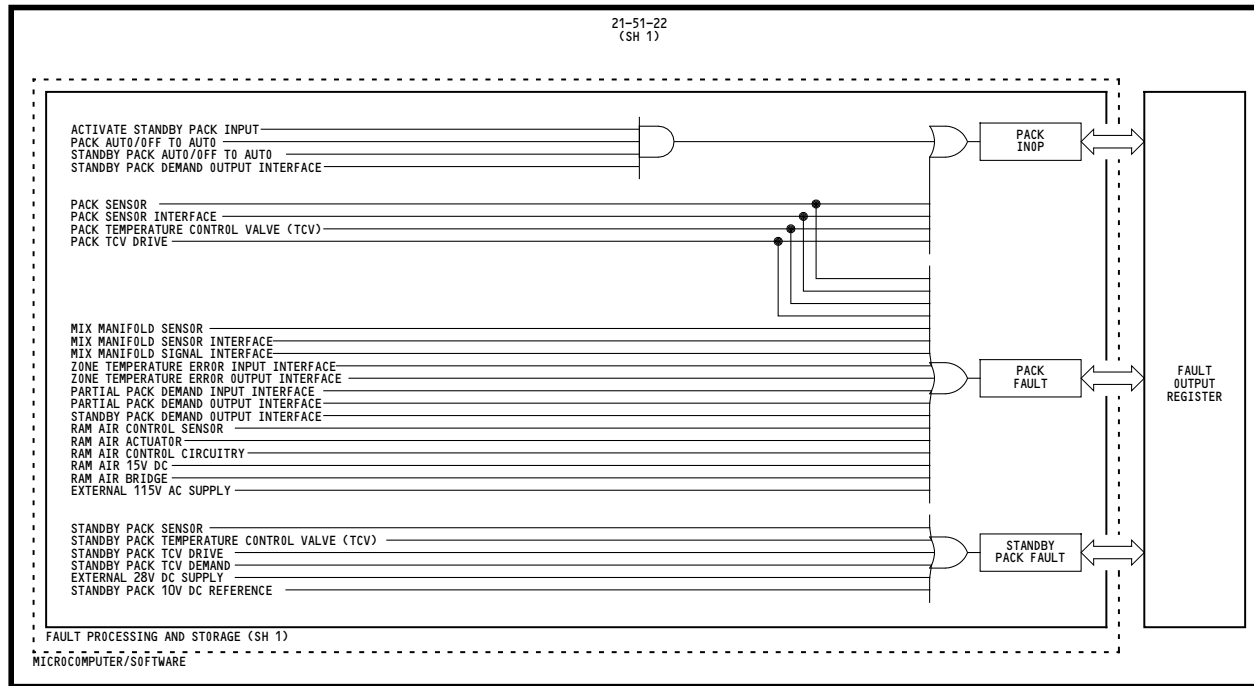
M1443 ZONE TEMP CONT 2 (RIGHT PACK/ZONE) (E3-3)

YC023-YL430	<b>RIGHT AIR CONDITIONING PACK CONTROL - AUTO</b>
D280A203	

**21-51-22**



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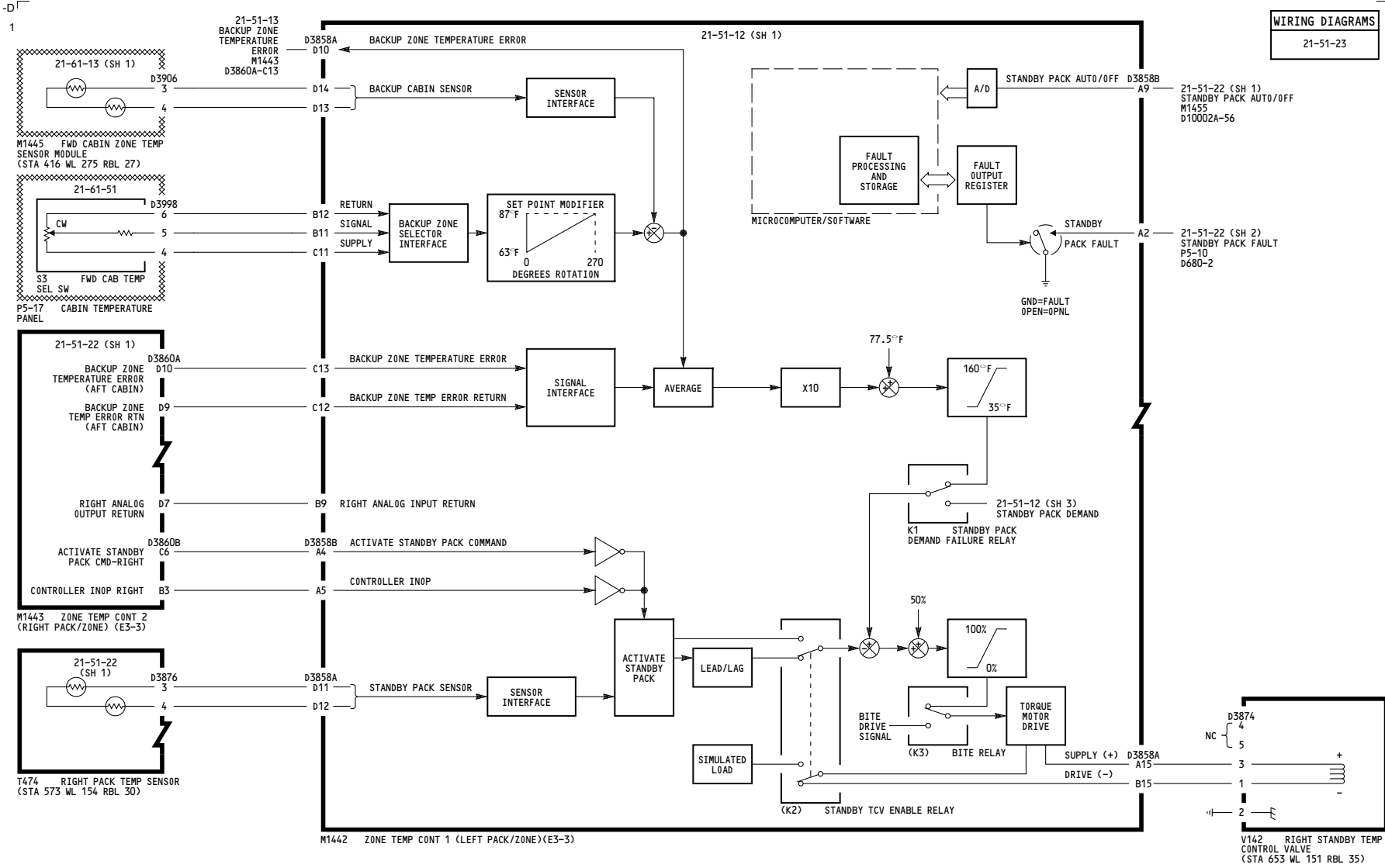
M1443 ZONE TEMPERATURE CONTROL 2 (RIGHT PACK/ZONE) (E3-3)

YC023-YL430	<b>RIGHT AIR CONDITIONING PACK CONTROL - AUTO</b>
	D280A203

**21-51-22**

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WIRING DIAGRAMS  
21-51-23



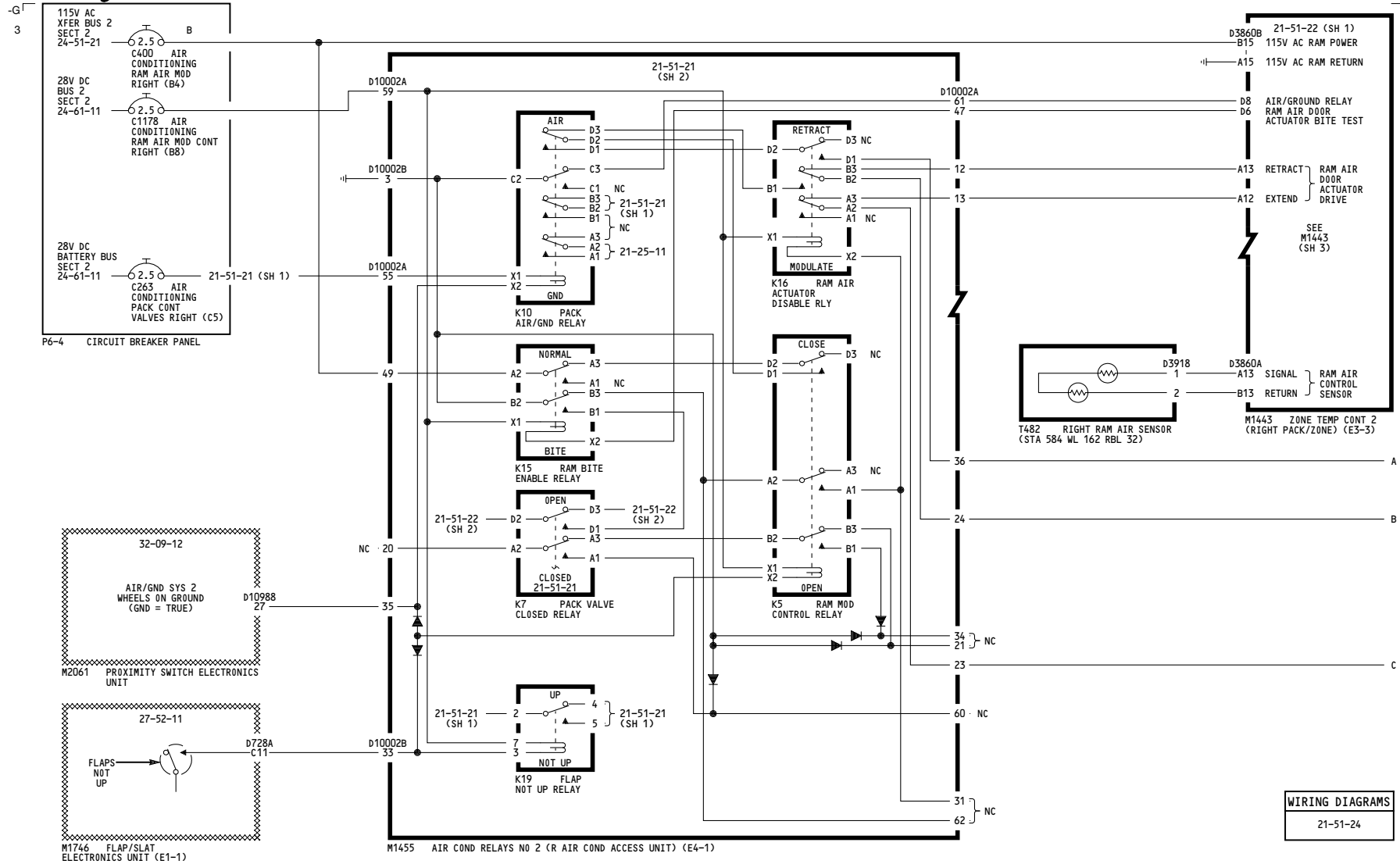
YC001-YL430

**RIGHT AIR CONDITIONING  
PACK CONTROL STANDBY**

D280A203

**21-51-23**

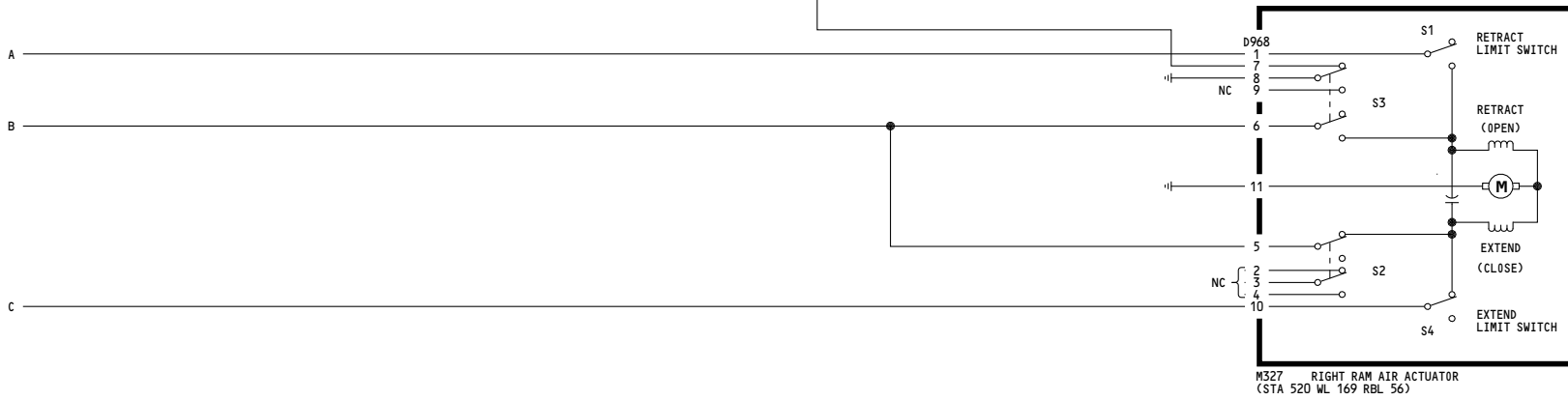
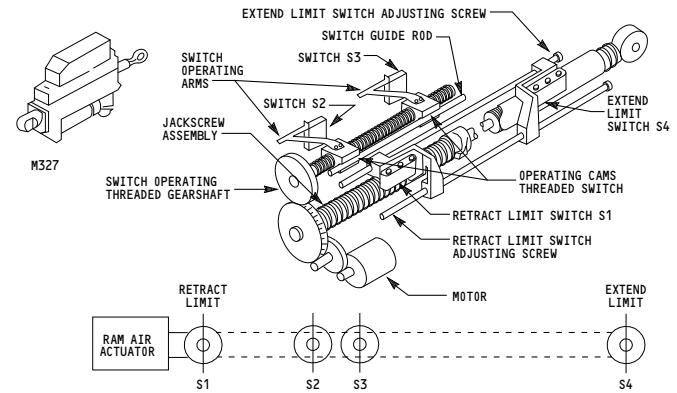
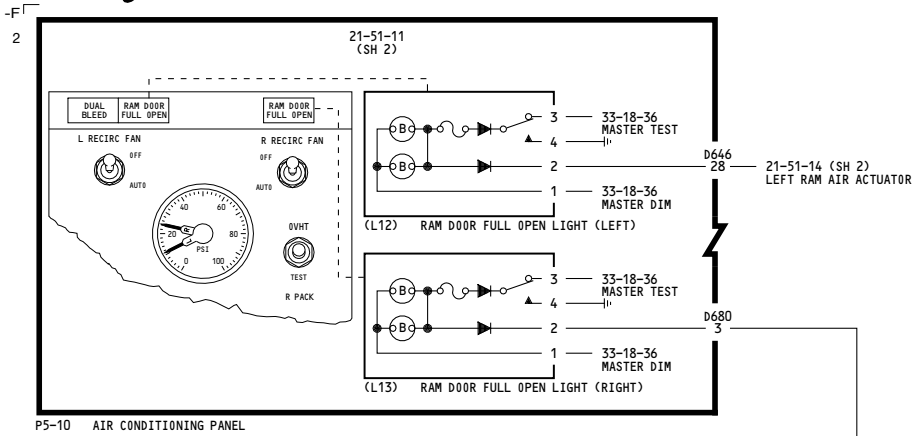
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YC001-YL430	<b>RIGHT RAM MODULATION CONTROL</b>  D280A203
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**WIRING DIAGRAMS**  
21-51-24

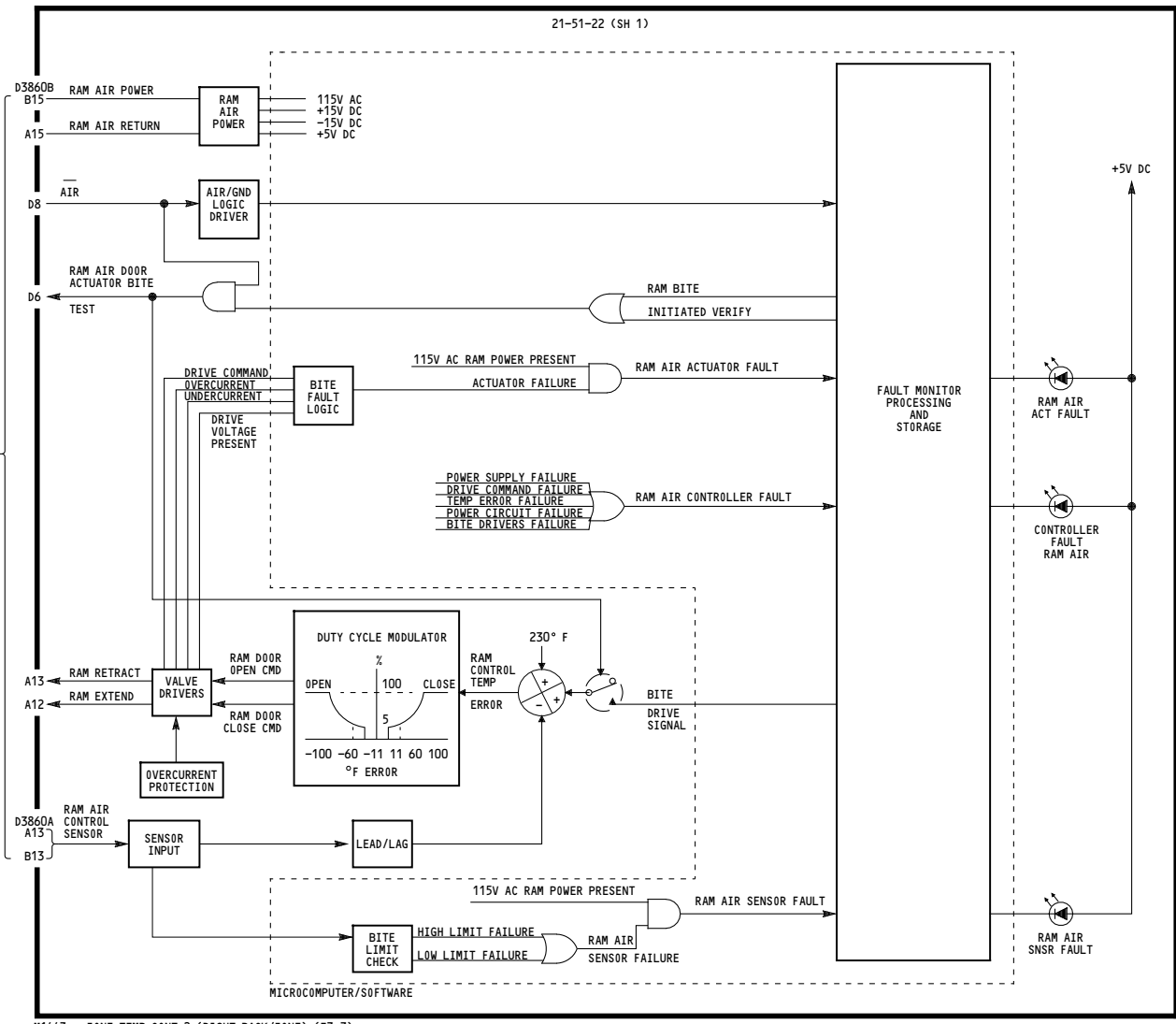
**21-51-24**



YC001-YL430	<p align="center"><b>RIGHT RAM MODULATION CONTROL</b></p> <p align="center">D280A203</p>
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(SH 1)



M1443 ZONE TEMP CONT 2 (RIGHT PACK/ZONE) (E3-3)

**BITE INSTRUCTIONS**

- IF CONTROLLER FAULT LAMP ON, REPLACE CONTROLLER.
- AT FLIGHT DECK:
  - ALL BLEED SWITCHES — OFF
  - ZONE TEMP SELECTORS — AUTO
  - LH AND RH PACK SWITCHES — AUTO
  - TRIM AIR SWITCHES — ON
- ON CONTROLLERS:
  - LAMP TEST — HIGH PRESS/TEST. IF ANY LAMP DOES NOT ILLUMINATE, REPLACE CONTROLLER.
  - PRESS ALL 3 TEST SWITCHES IN SEQUENCE INDICATED. AT EACH POSITION WAIT FOR GREEN OR RED LAMP ON.
- IF RED, REPLACE UNIT INDICATED AND PRESS VERIFY. IF ANY FLT DECK OR ZONE RED LAMP ON, IDENTIFY AS FOLLOWS:
  - LAMP — AIR CONT — RH CONT
  - FLT DECK — BACKUP — PRIMARY
  - ZONE — AFT ZONE FWD ZONE
  - BKUP ZONE FWD ZONE AFT ZONE
  - WHEN VERIFY GREEN PRESS RESET
  - AT FLIGHT DECK LH AND RH PACK SWITCHES — OFF.

**PRESS/TEST**

CONTROLLER FAULT (R)	RAM AIR (R)	STANDBY PACK (R)	(G) GO
SELECTOR (R)	CABIN SENSOR (R)	DUCT SENSOR (R)	TRIM VALVE (R)
FLT DECK (R)	ZONE (R)	ZONE (R)	FLT DECK (R)
BKUP ZONE (R)	ZONE (R)	ZONE (R)	ZONE (R)
RAM AIR (R)	STANDBY (R)	(R) MIX MANF	(R) TCV
ACT (R)	PACK SNSR (R)	(R) PACK SNSR	(R) TCV
(A)	(A)	(A)	(A)
BIT (C)	PREV. FLT (C)	VERIFY (C)	RESET (C)

**TEST SWITCHES**

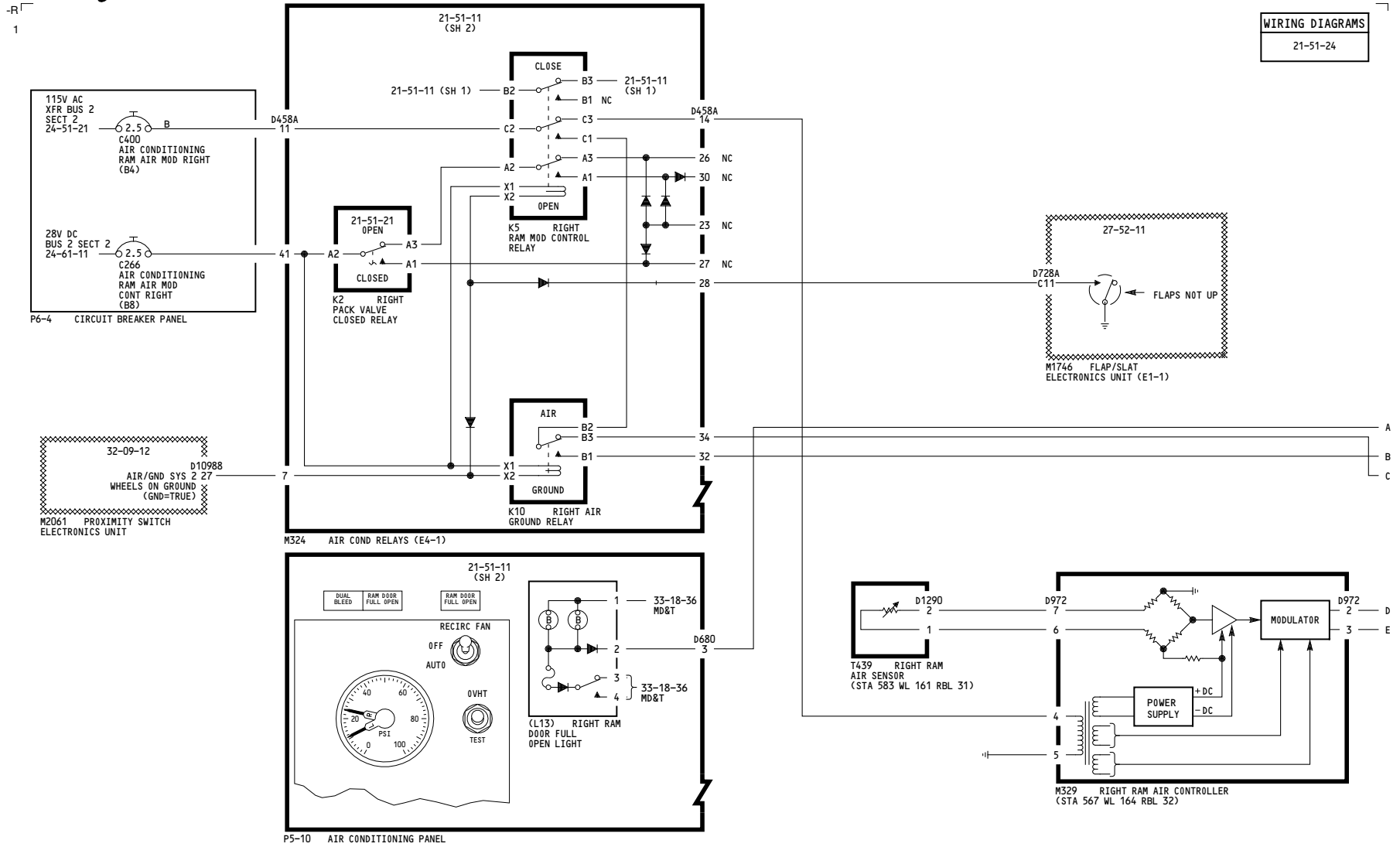
YC001-YL430

**RIGHT RAM MODULATION CONTROL**

D280A203

**21-51-24**

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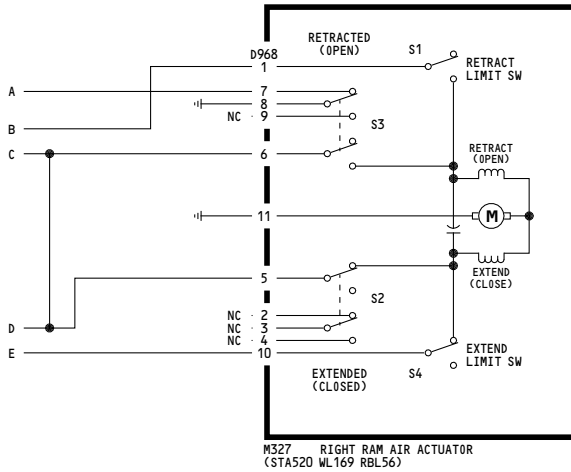
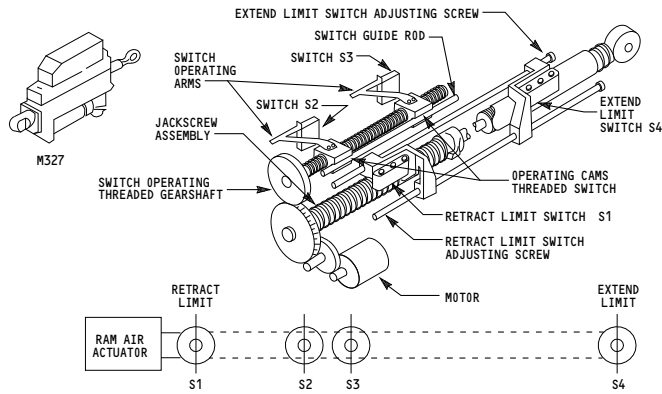


YM643-YM670	<b>RIGHT RAM MODULATION CONTROL</b>  D280A203
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**21-51-24**



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YM643-YM670

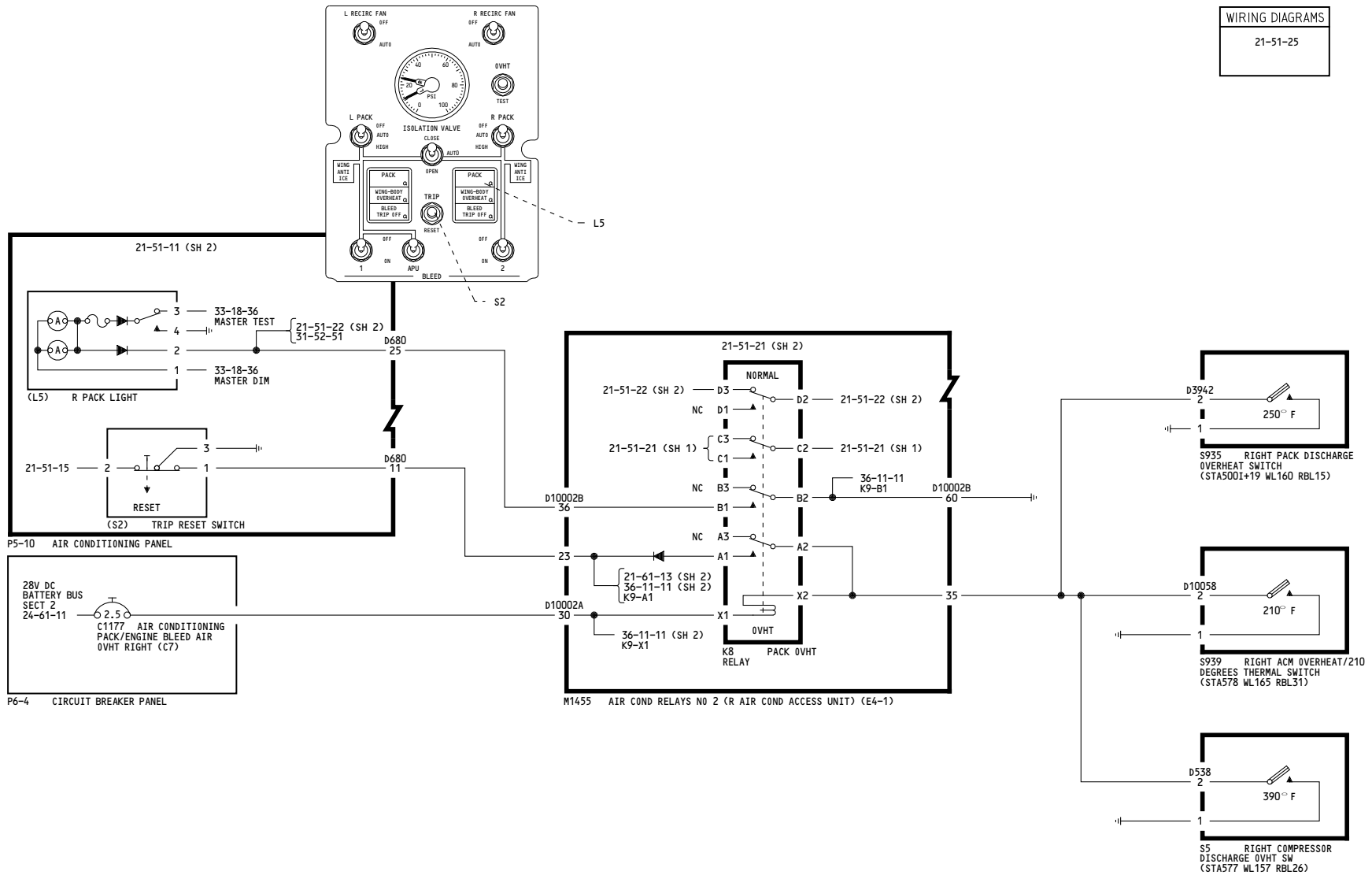
**RIGHT RAM MODULATION CONTROL**

D280A203

**21-51-24**

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Sheet 2  
May 11/2009

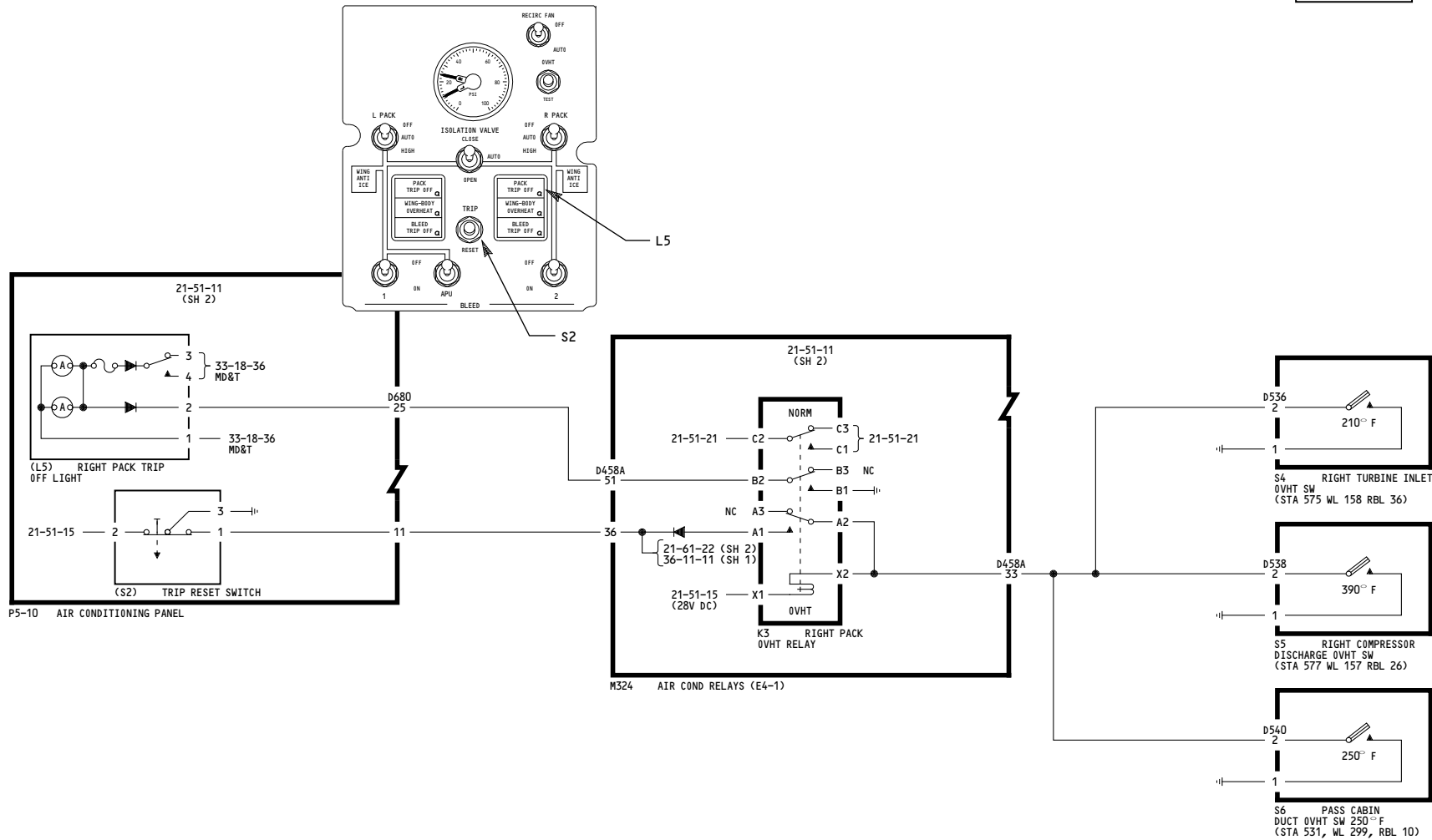
WIRING DIAGRAMS  
21-51-25



YC001-YL430	<p align="center"><b>RIGHT PACK PROTECTION</b></p> <p align="center">D280A203</p>
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**21-51-25**

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1

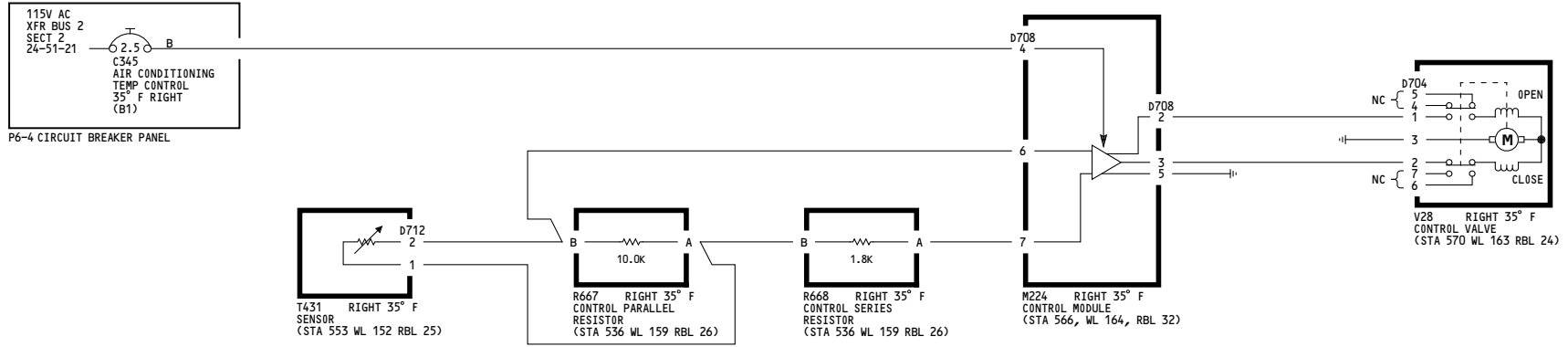


YM643-YM670	<p align="center"><b>RIGHT PACK PROTECTION</b></p> <p align="center">D280A203</p>
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**21-51-25**

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WIRING DIAGRAMS  
21-51-26

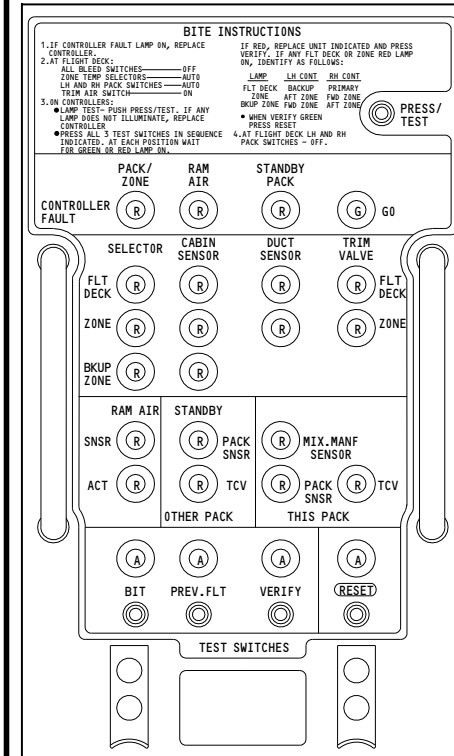
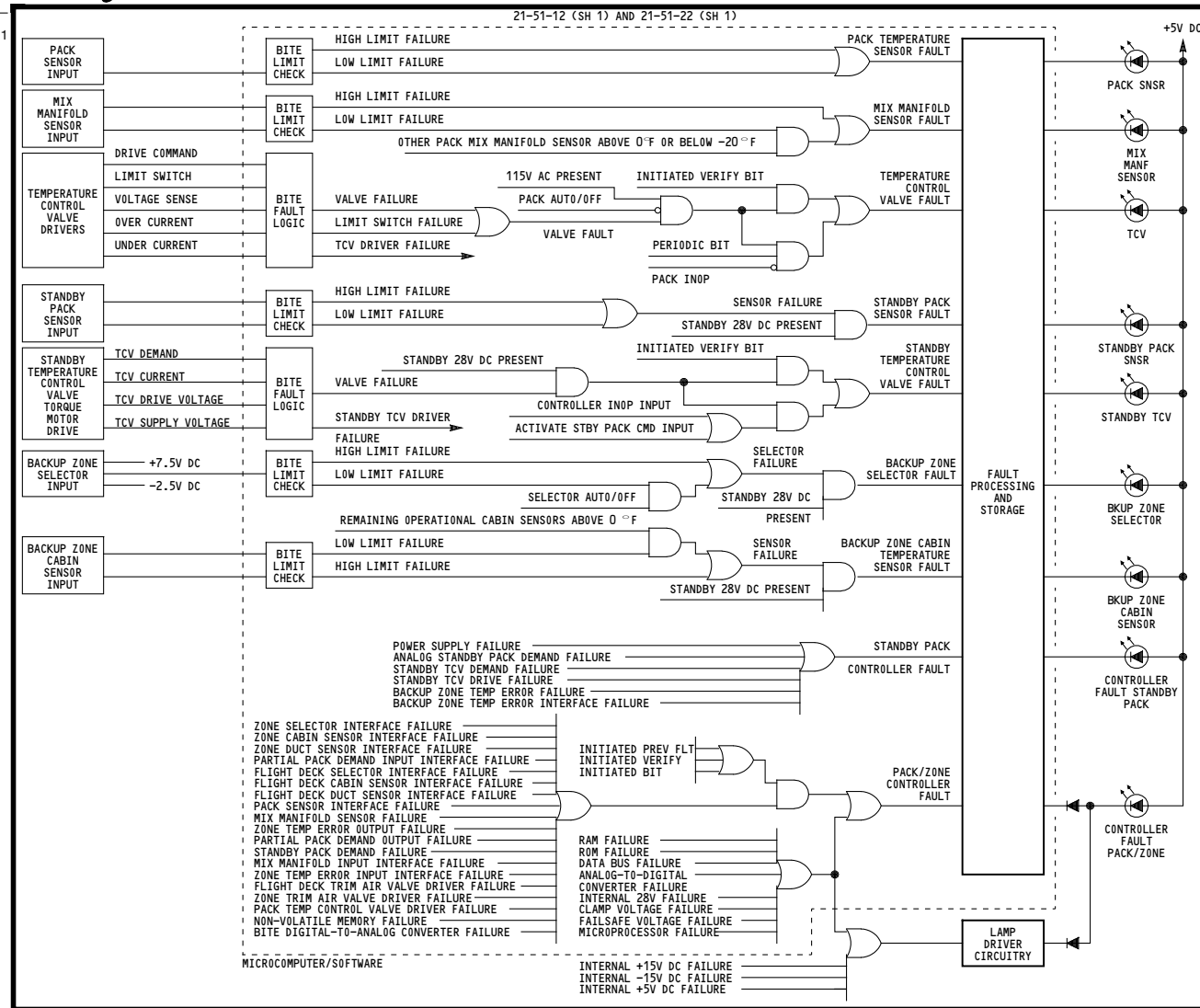


YM643-YM670	<p><b>RIGHT WATER SEPARATOR 35 DEGREES FAHRENHEIT CONTROL</b></p> <p>D280A203</p>
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**21-51-26**

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M1442 AND M1443 ZONE TEMP CONT 1 & 2 (TYPICAL) (E3-3)

YC001-YL430

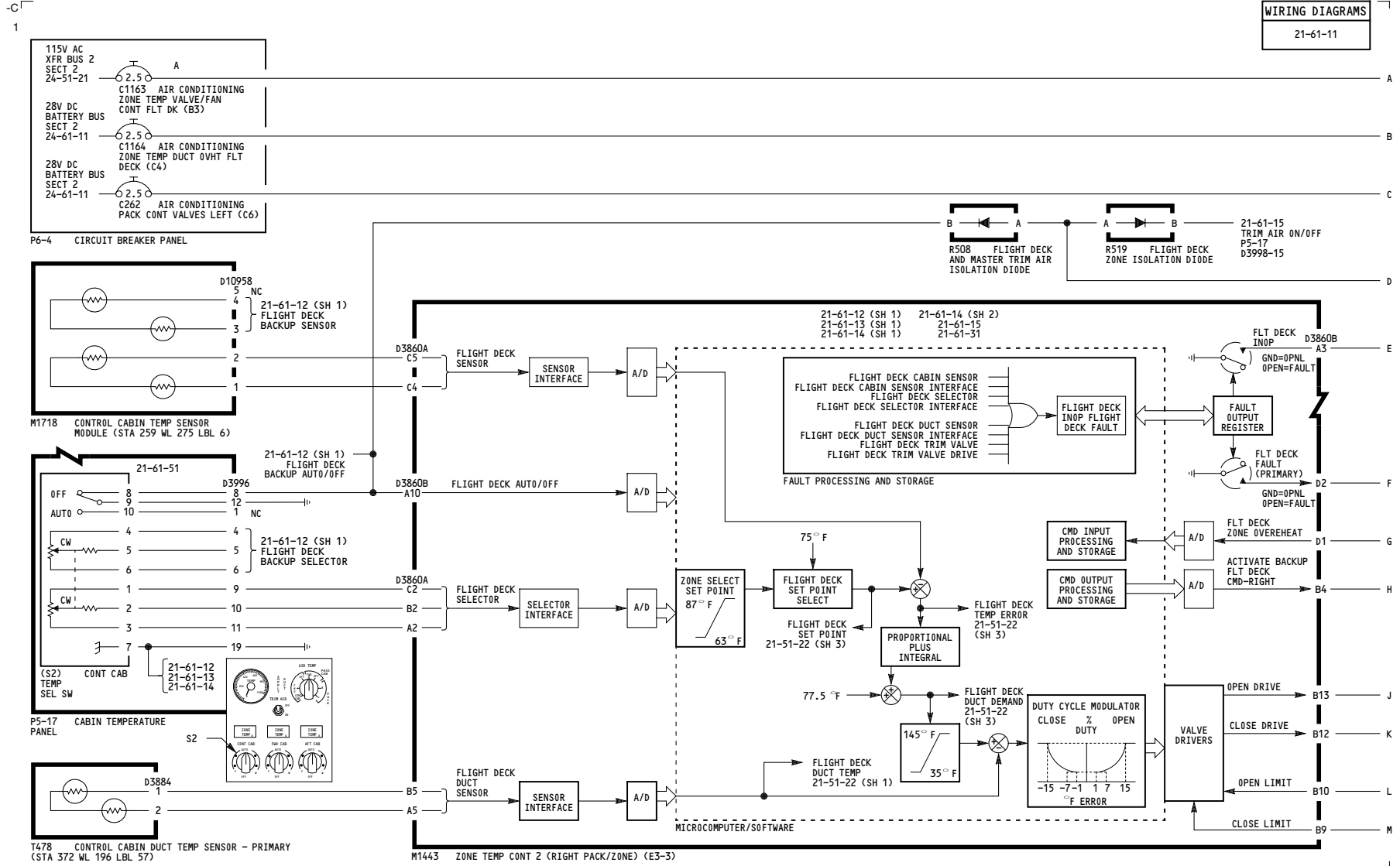
**AIR CONDITIONING  
PACK CONTROL BITE**

D280A203

**21-51-31**

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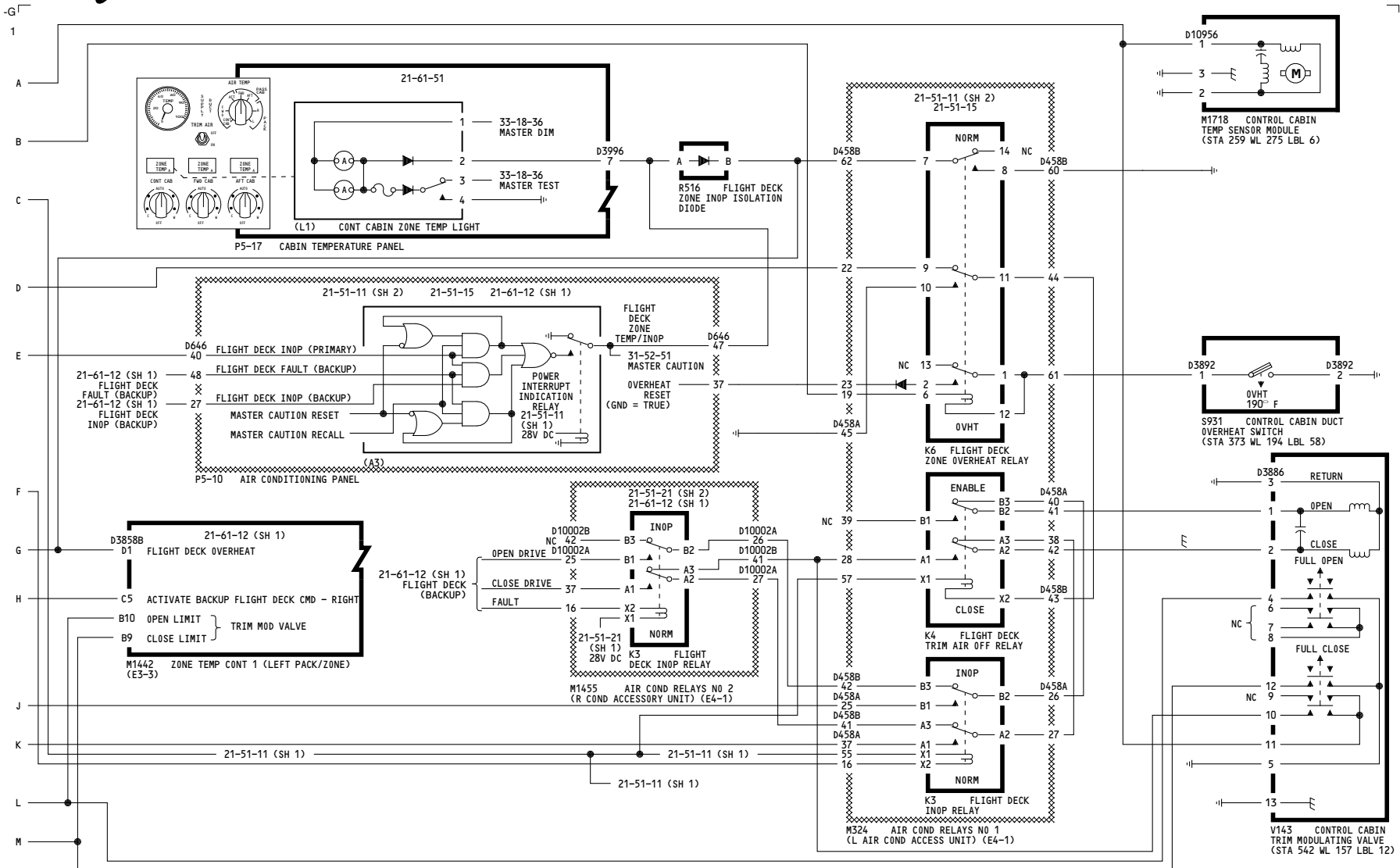


YC001-YC022

**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(PRIMARY)**

D280A203

**21-61-11**



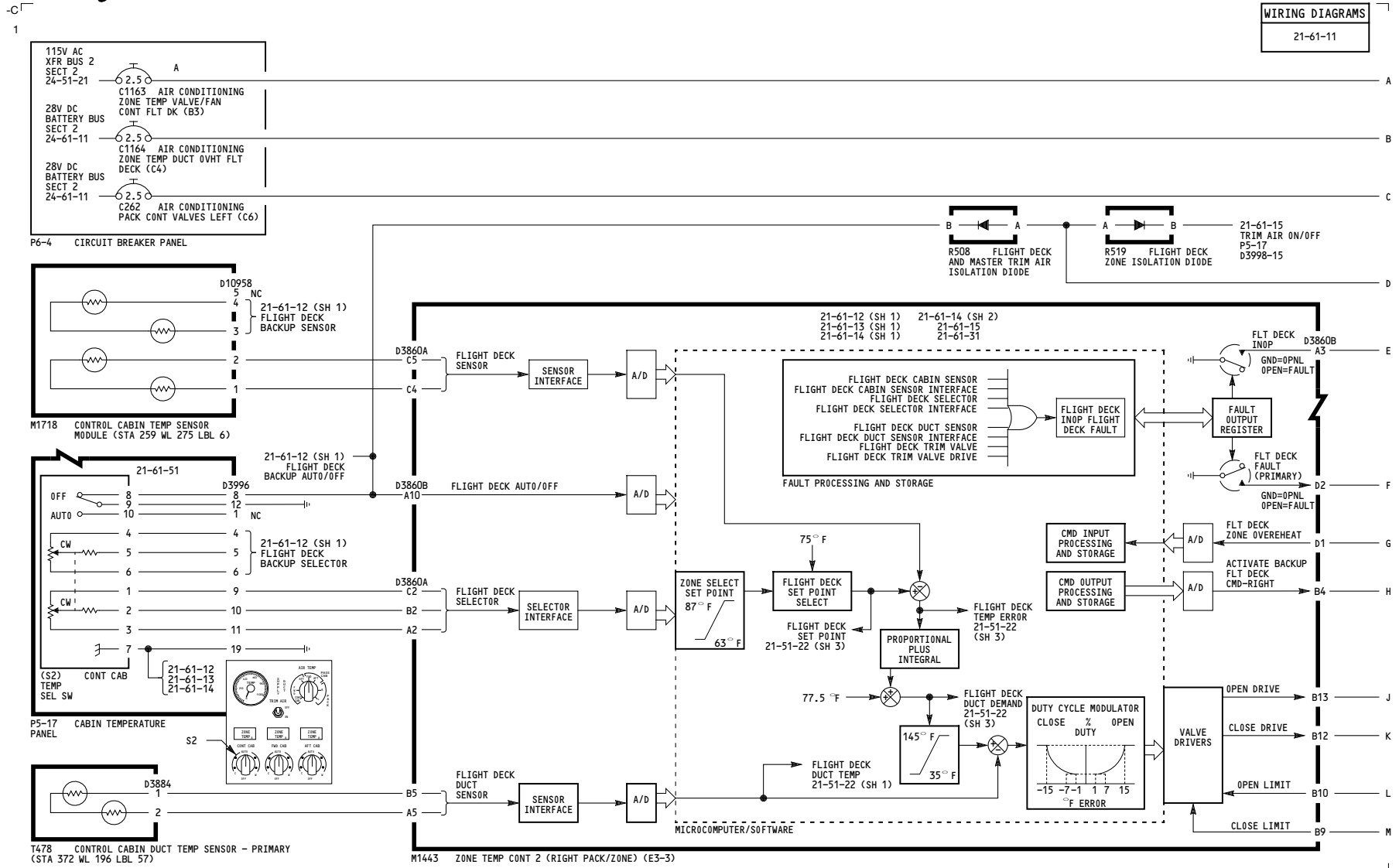
YC001-YC022

**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(PRIMARY)**

D280A203

**21-61-11**

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Sheet 2  
Jul 26/2006



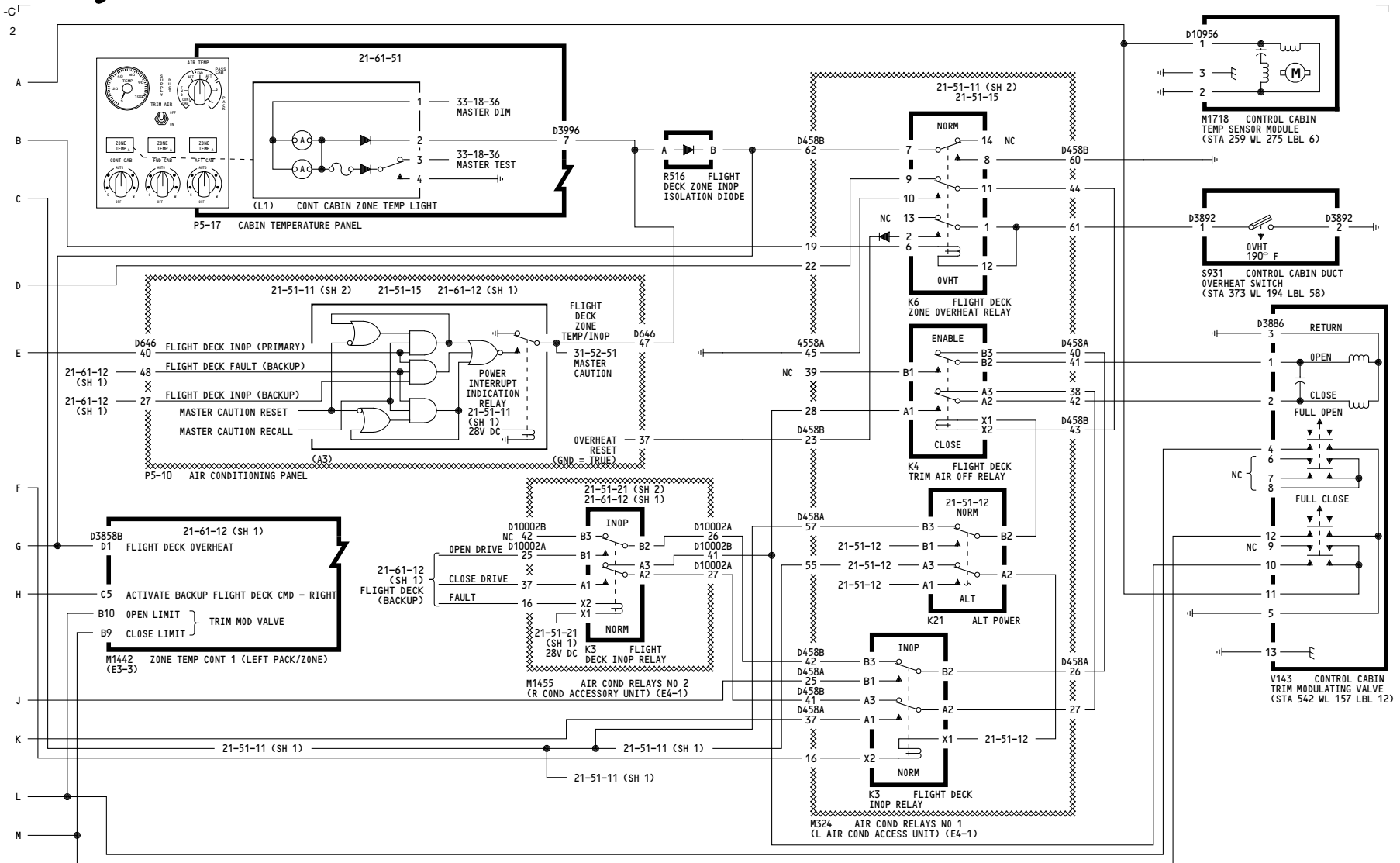
Y0001-Y0022

**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(PRIMARY)**

D280A203

**21-61-11**





YC001-YC022

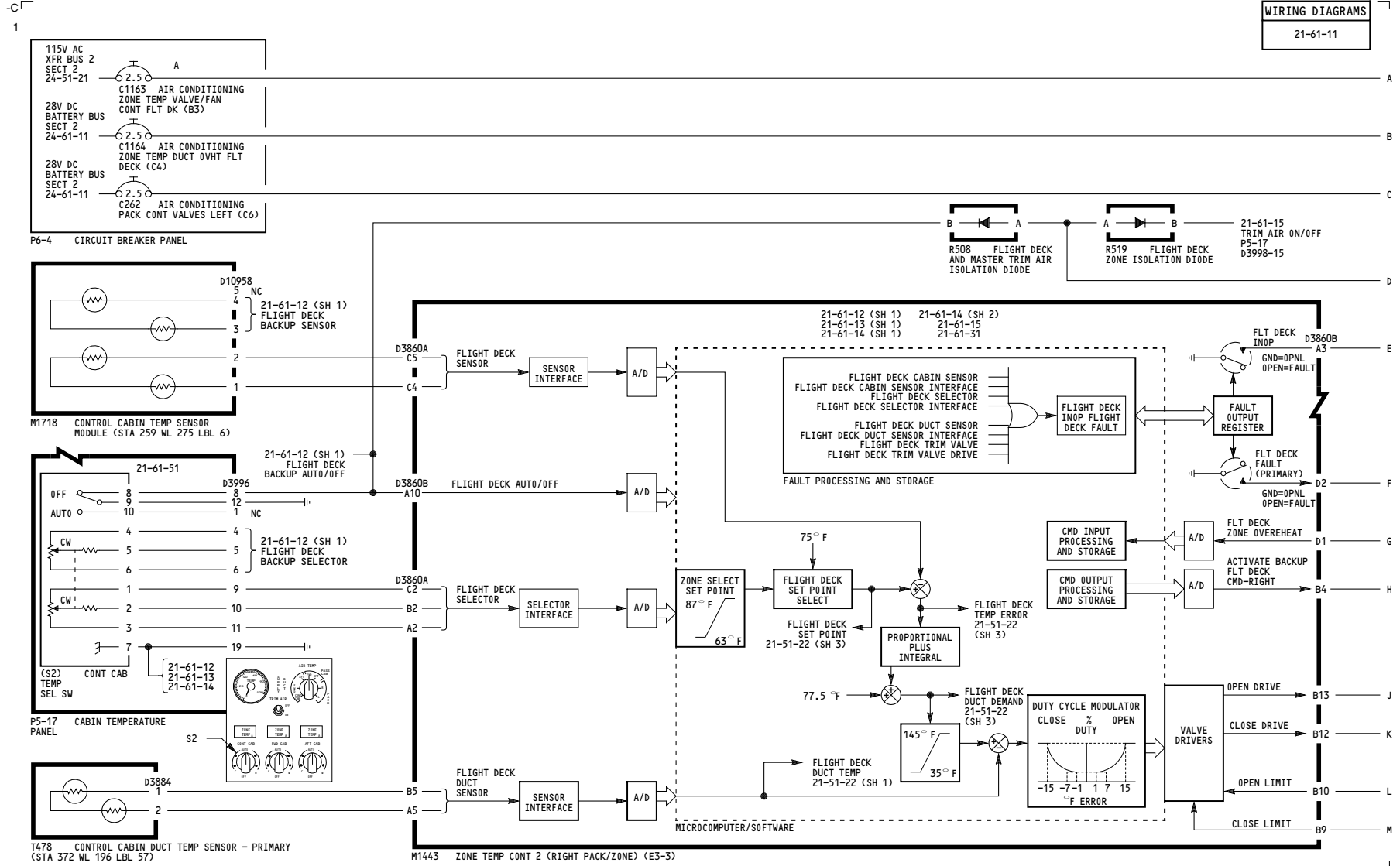
**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(PRIMARY)**

D280A203

Incorporates  
▶ 21-1133

**21-61-11**

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Sheet 2  
Jul 26/2006

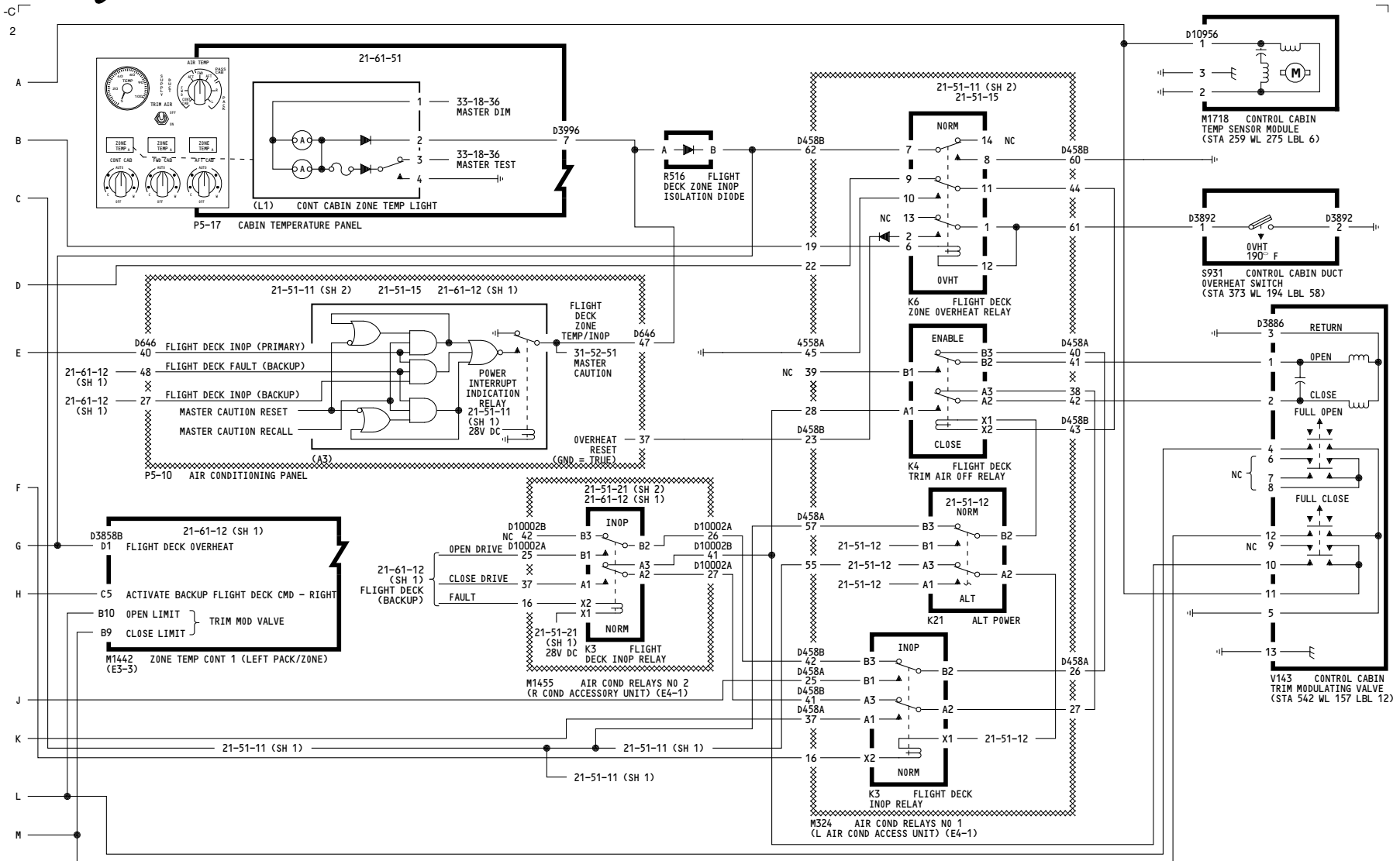


YCO23-YL430

**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(PRIMARY)**

D280A203

**21-61-11**



YC023-YL430

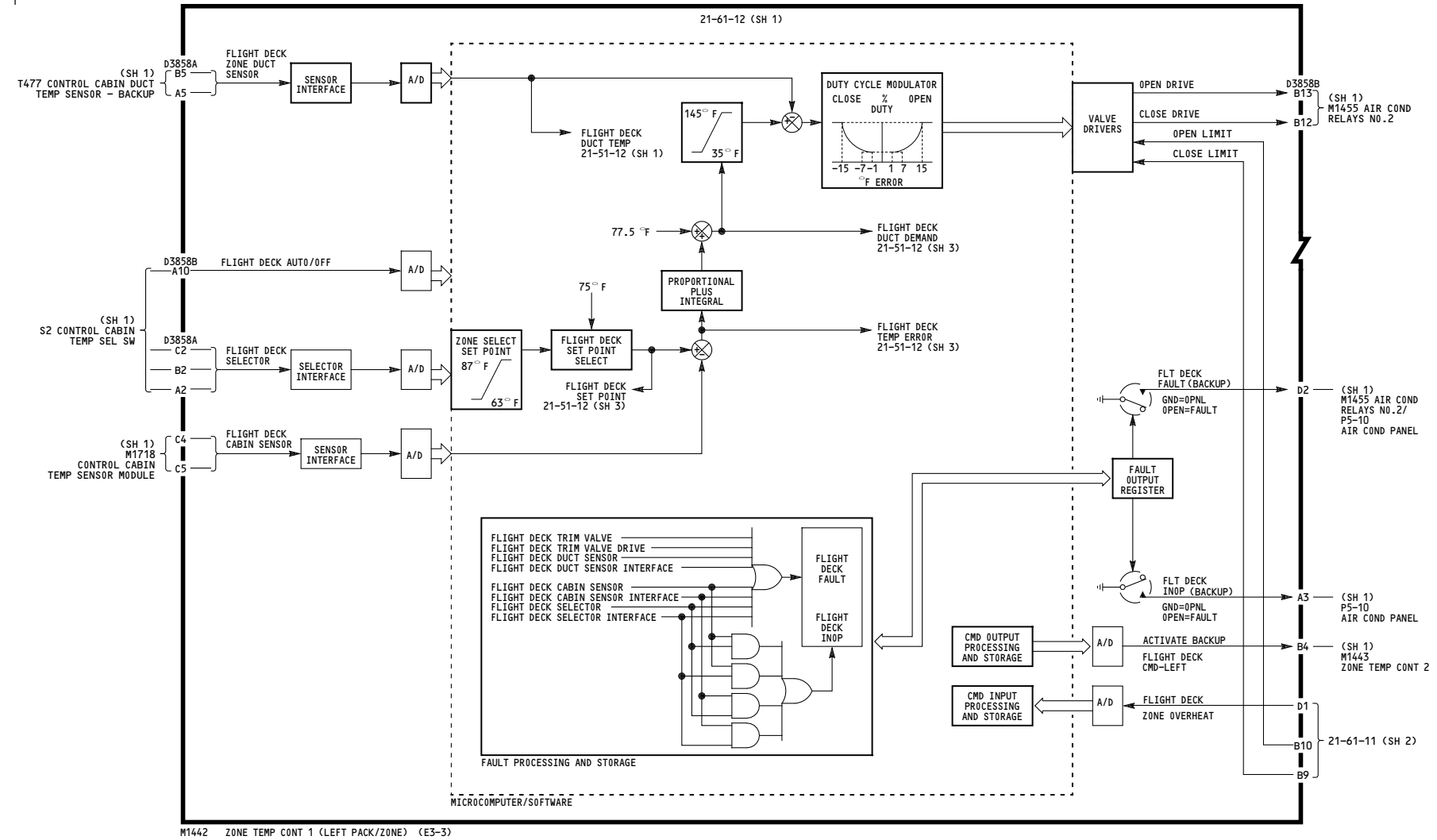
**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(PRIMARY)**

D280A203

**21-61-11**

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YC001-YC022

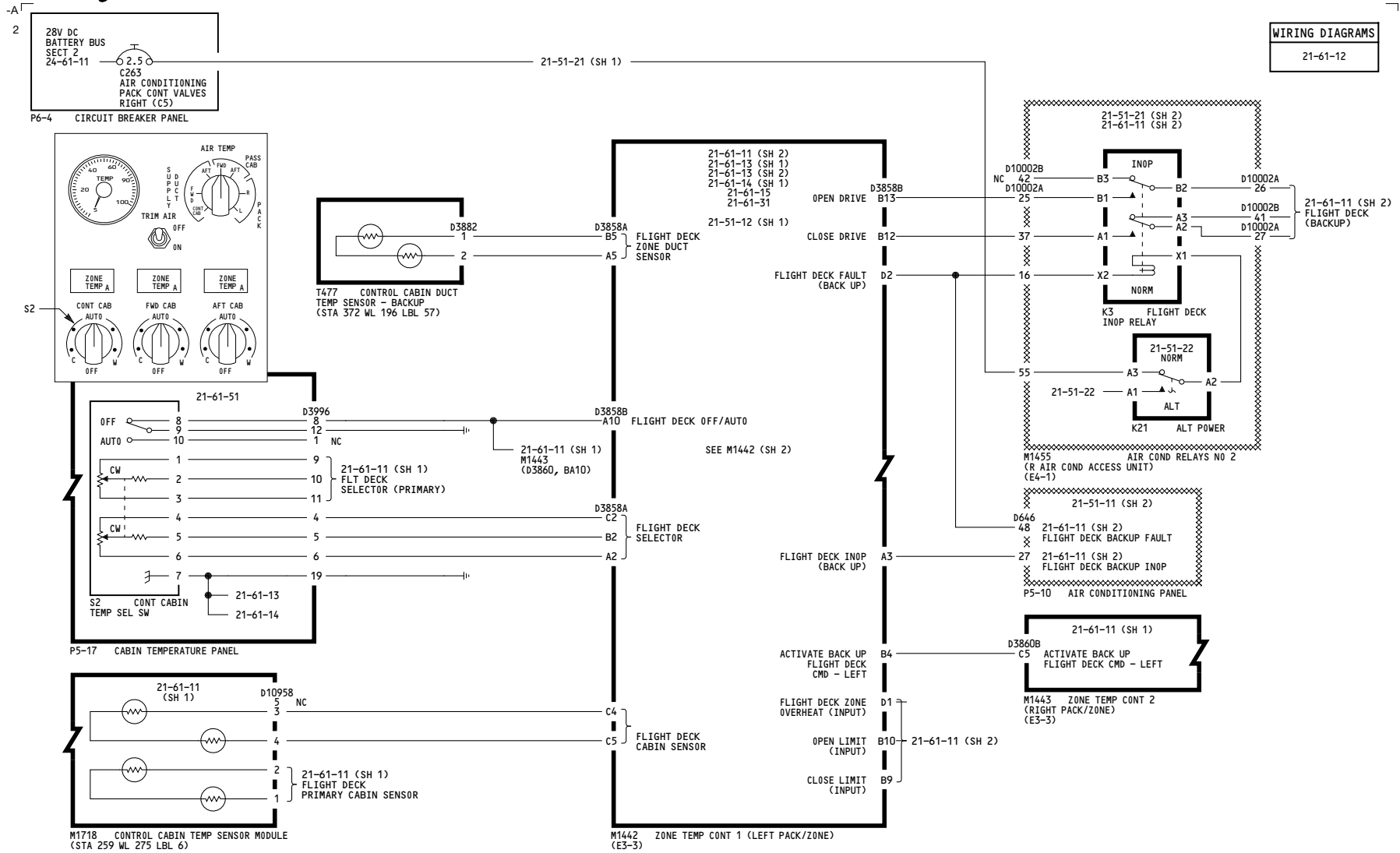
**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(BACKUP)**

D280A203

**21-61-12**

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Sheet 2  
Jul 26/2006

WIRING DIAGRAMS  
21-61-12



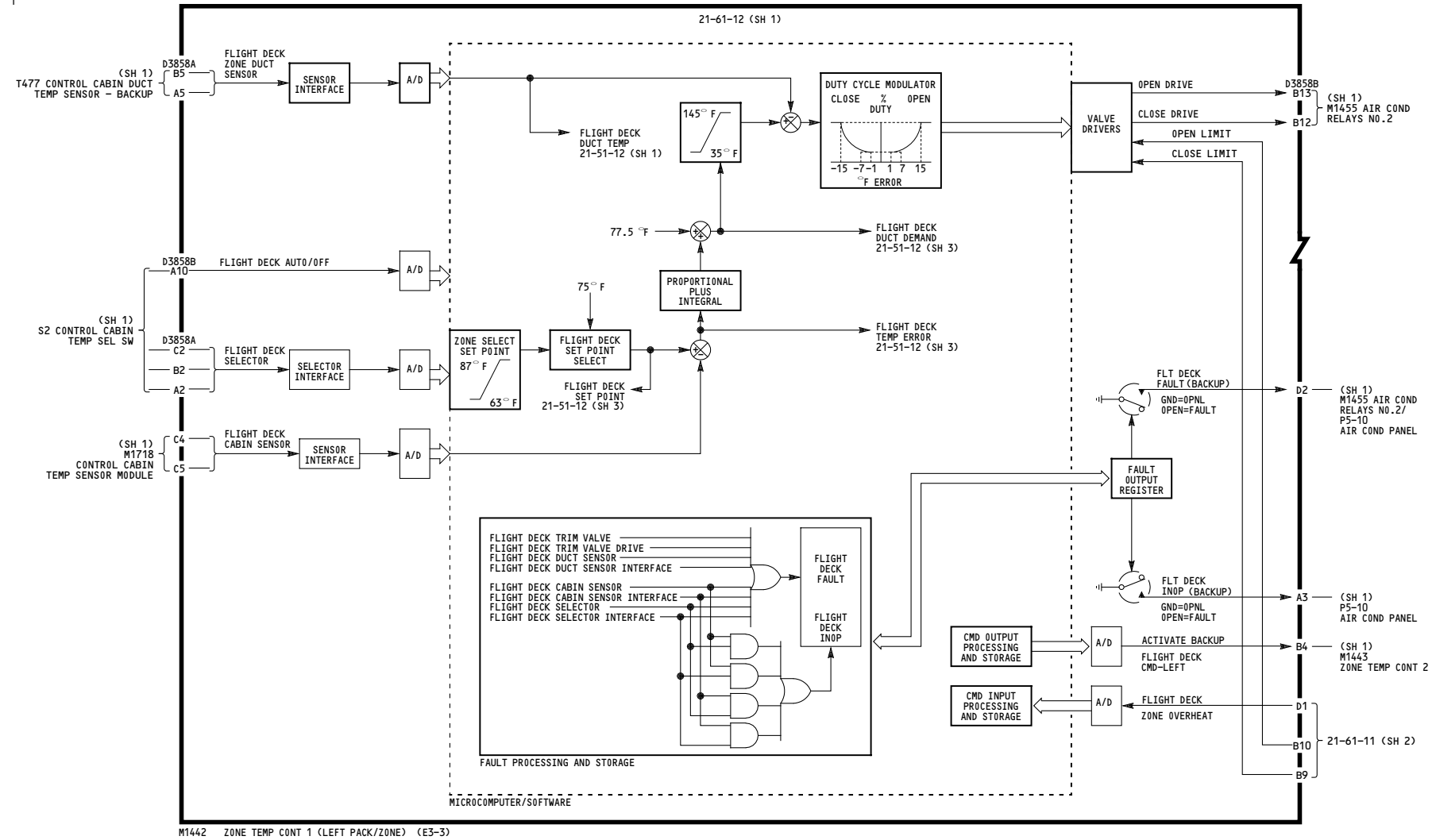
YC001-YC022

**TEMPERATURE CONTROL - FLIGHT DECK ZONE (BACKUP)**

Incorporates  
21-1133

D280A203

**21-61-12**



YC001-YC022

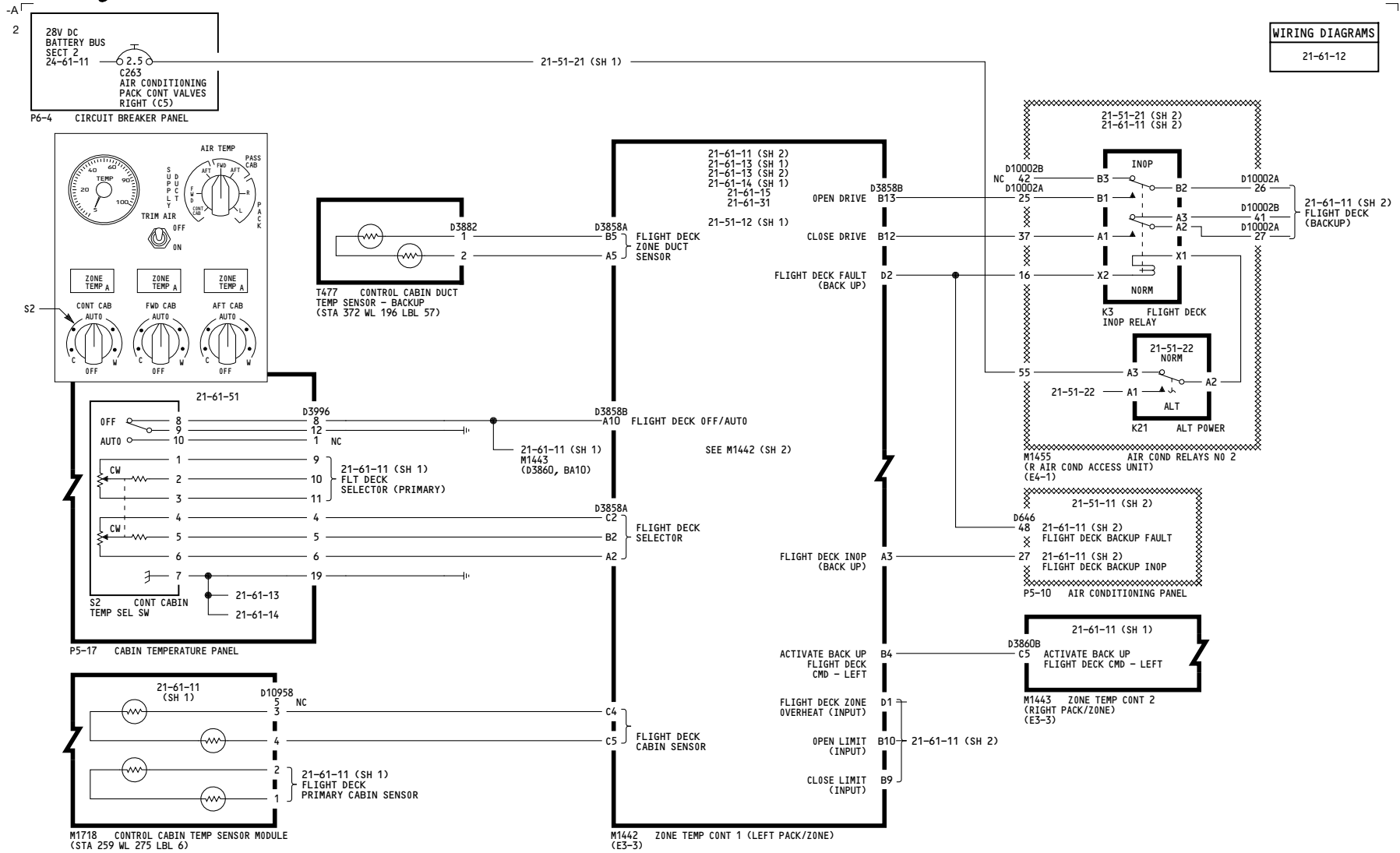
**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(BACKUP)**

D280A203

**21-61-12**

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Sheet 2  
Jul 26/2006

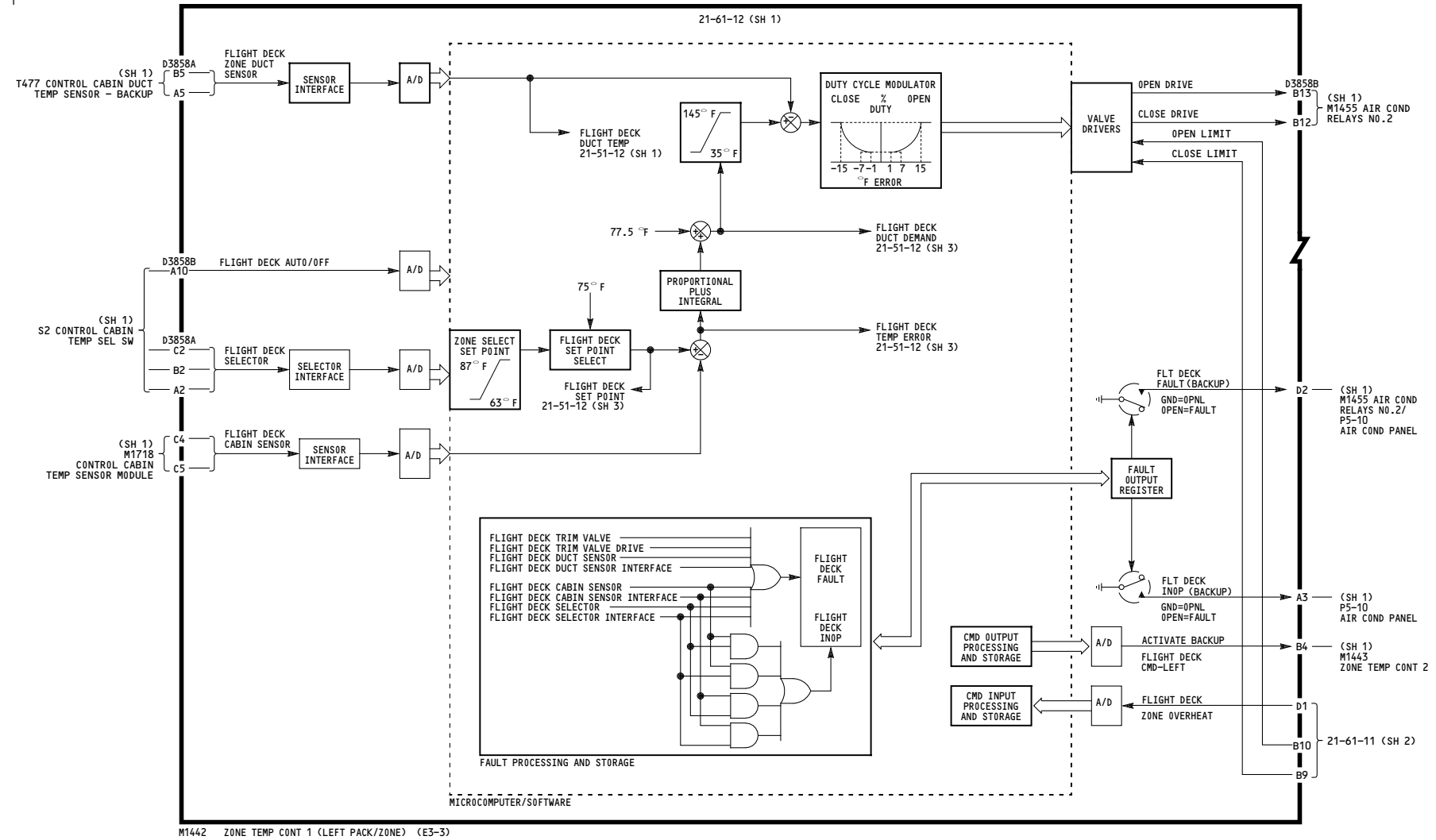
WIRING DIAGRAMS  
21-61-12



<p>YC023-YL430</p>	<p><b>TEMPERATURE CONTROL - FLIGHT DECK ZONE (BACKUP)</b></p> <p>D280A203</p>
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**21-61-12**





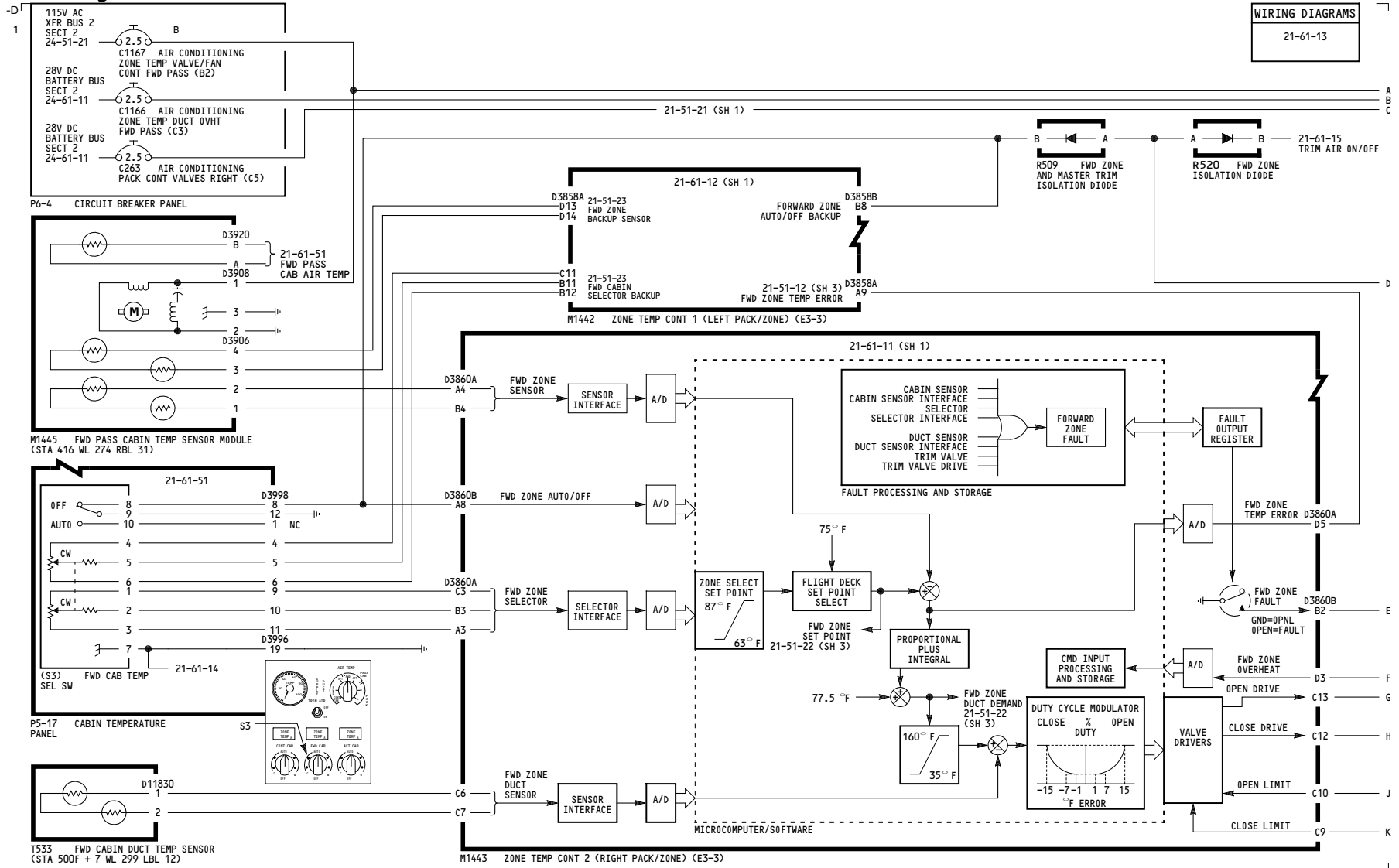
YC023-YL430

**TEMPERATURE CONTROL -  
FLIGHT DECK ZONE  
(BACKUP)**

D280A203

**21-61-12**

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Sheet 2  
Feb 09/2009

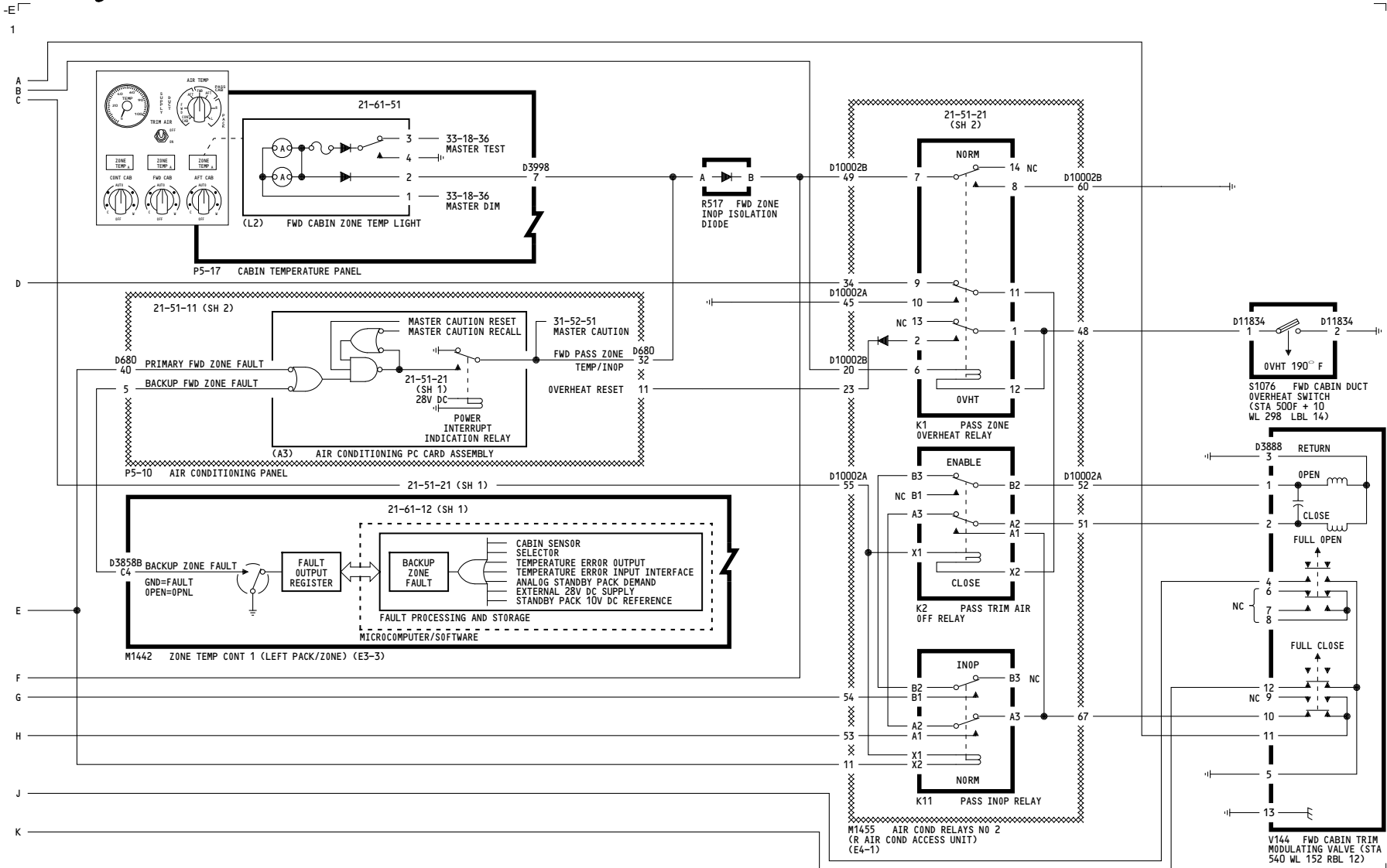


Y0001-Y0022

**TEMPERATURE CONTROL - FWD PASSENGER ZONE**

D280A203

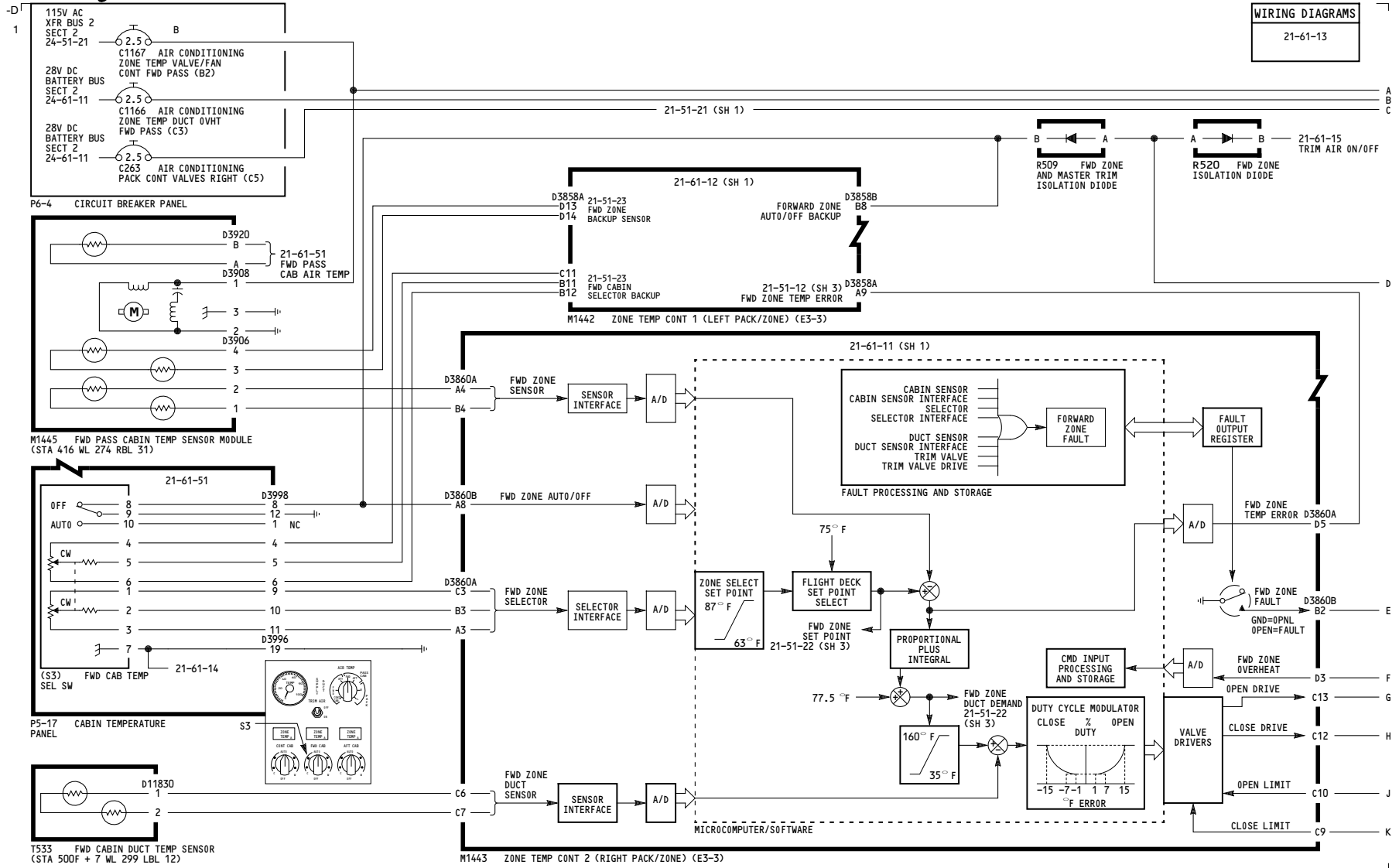
**21-61-13**



<p>YC001-YC022</p>	<p><b>TEMPERATURE CONTROL - FWD PASSENGER ZONE</b></p> <p>D280A203</p>
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**21-61-13**

**WIRING DIAGRAMS**  
21-61-13



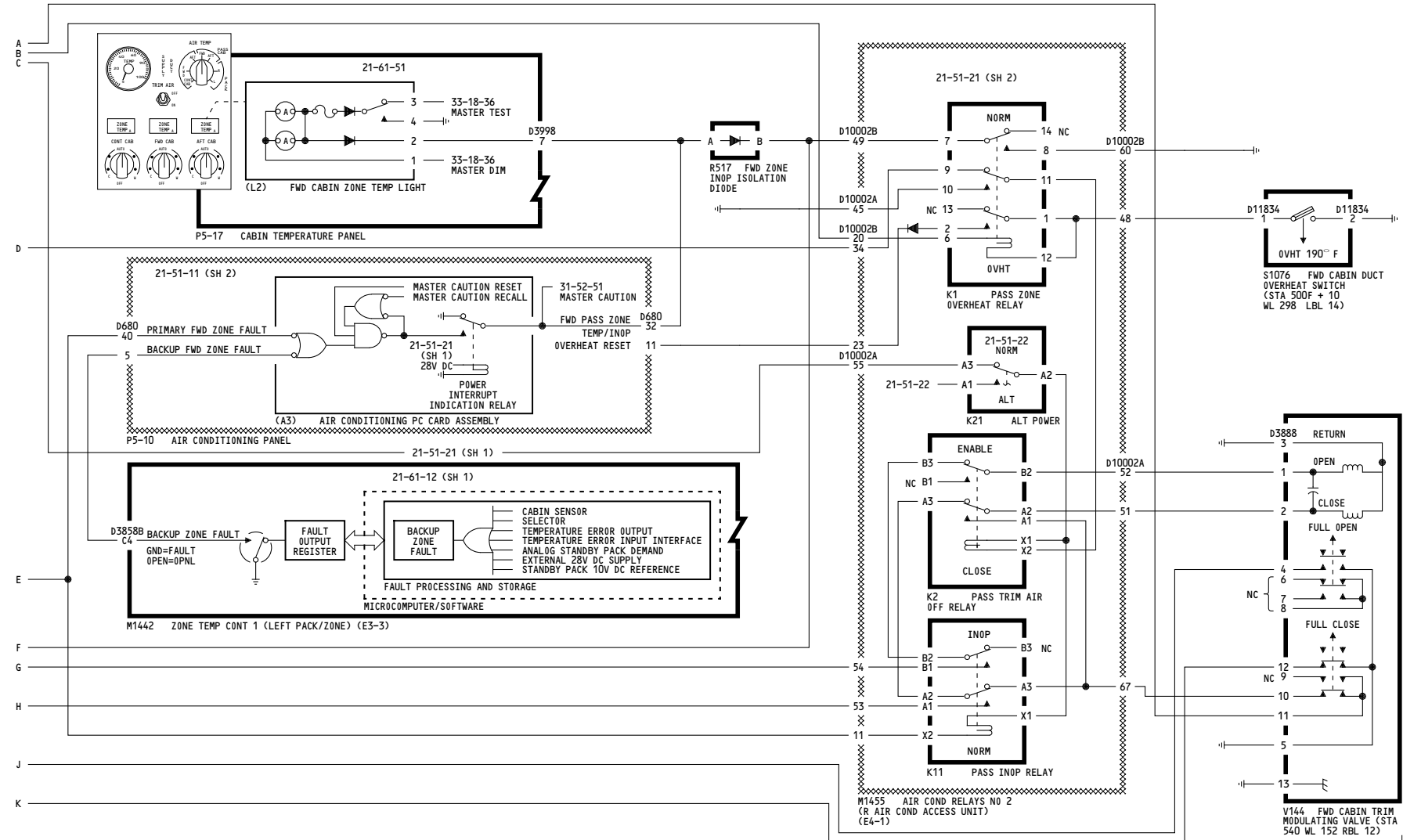
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**TEMPERATURE CONTROL - FWD PASSENGER ZONE**

D280A203

**21-61-13**

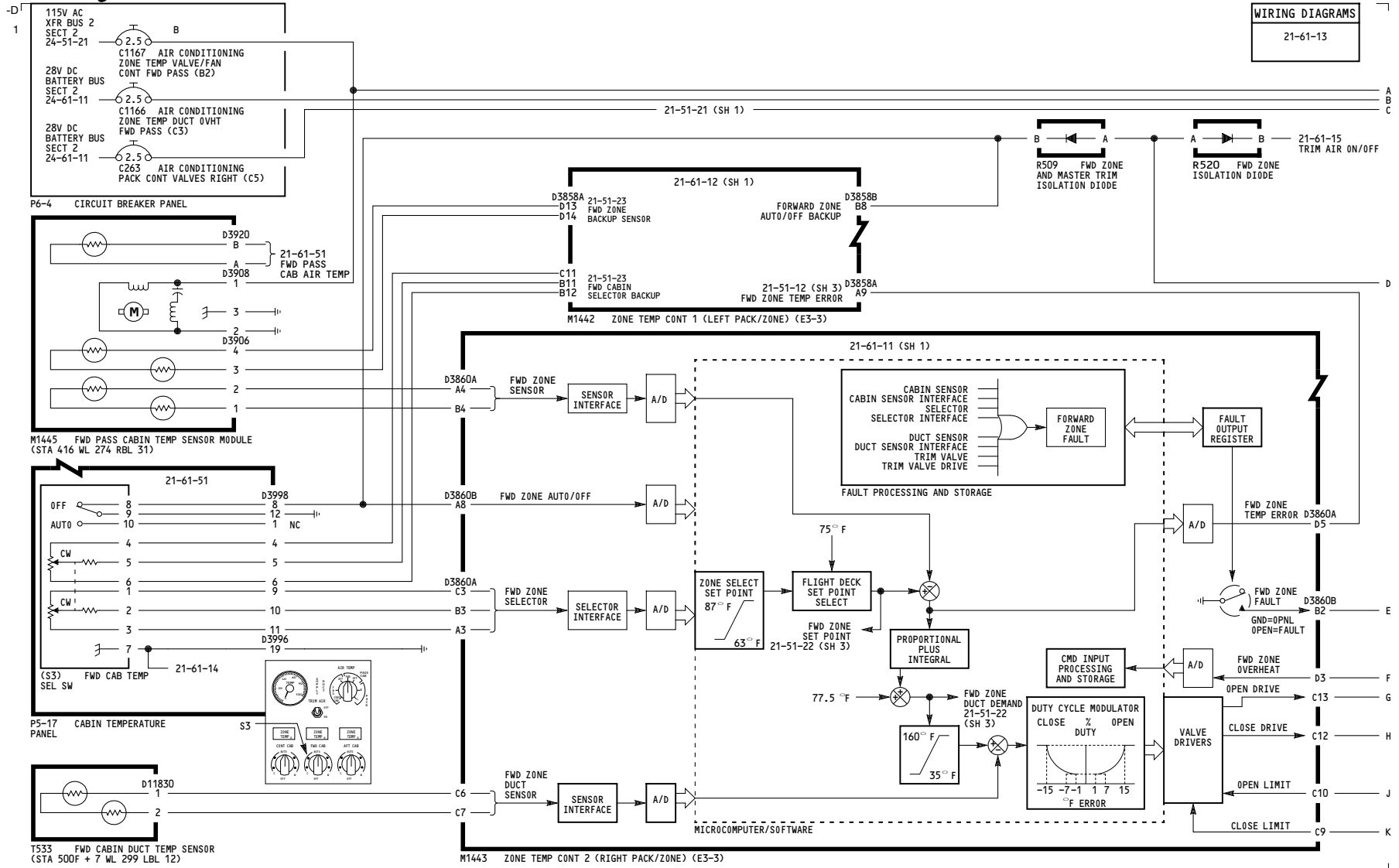
-A  
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<p>YC001-YC022</p>	<p><b>TEMPERATURE CONTROL - FWD PASSENGER ZONE</b></p> <p style="text-align: right;">D280A203</p>
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Incorporates 21-1133

**21-61-13**



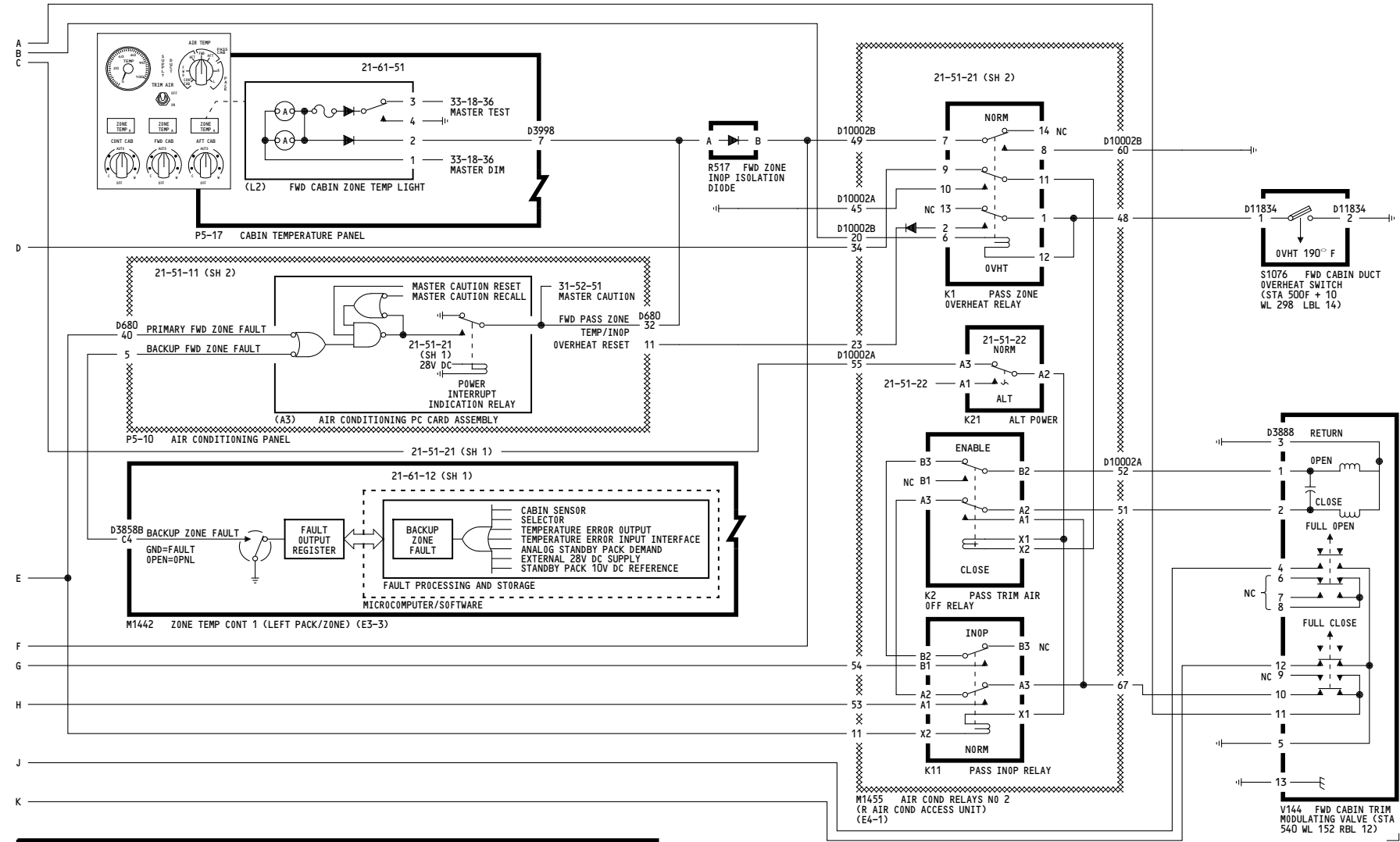
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**TEMPERATURE CONTROL - FWD PASSENGER ZONE**

D280A203

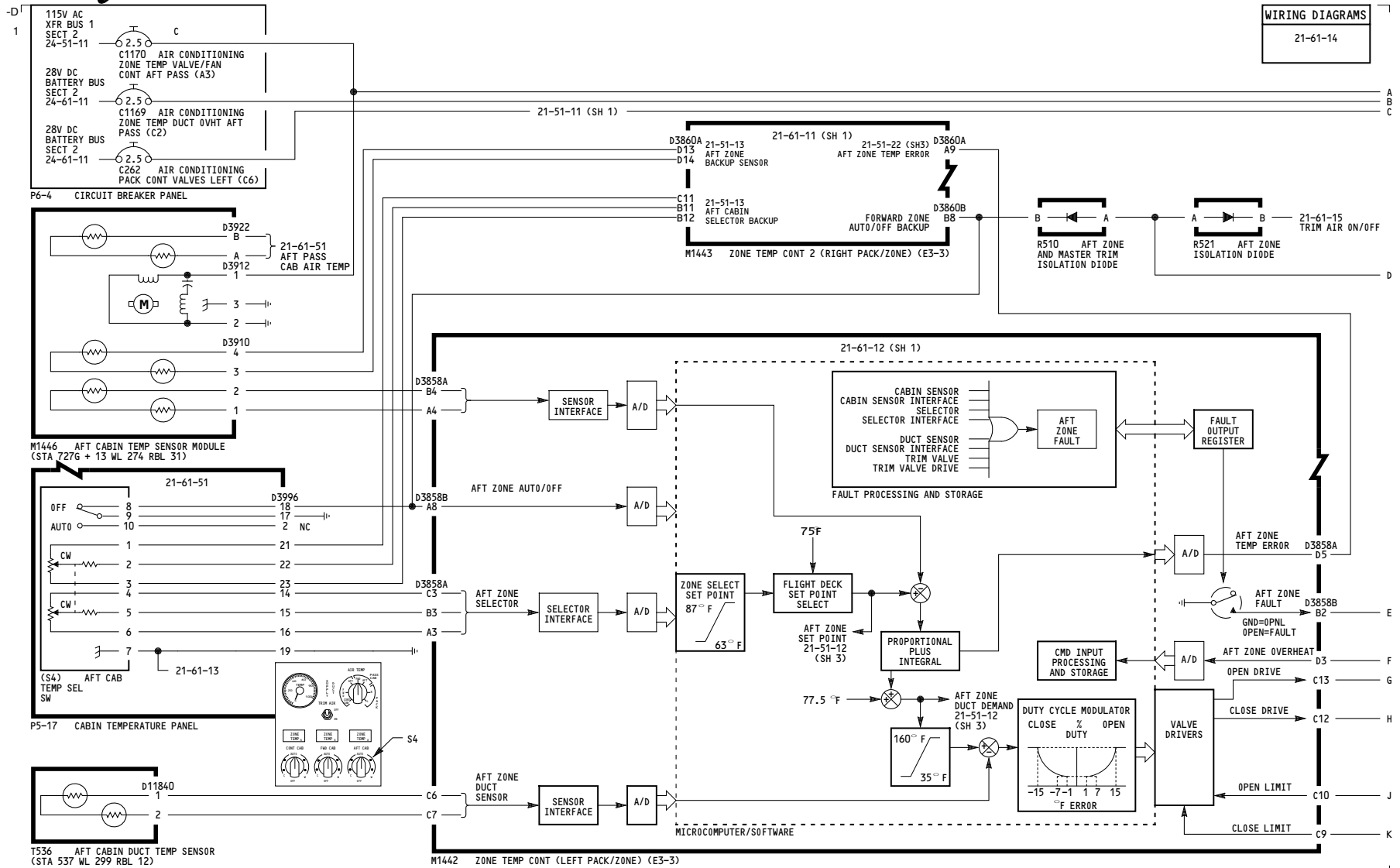
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A  
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<p>YC023-YL430</p>	<p><b>TEMPERATURE CONTROL - FWD PASSENGER ZONE</b></p> <p>D280A203</p>
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**21-61-13**



YC001-YC022

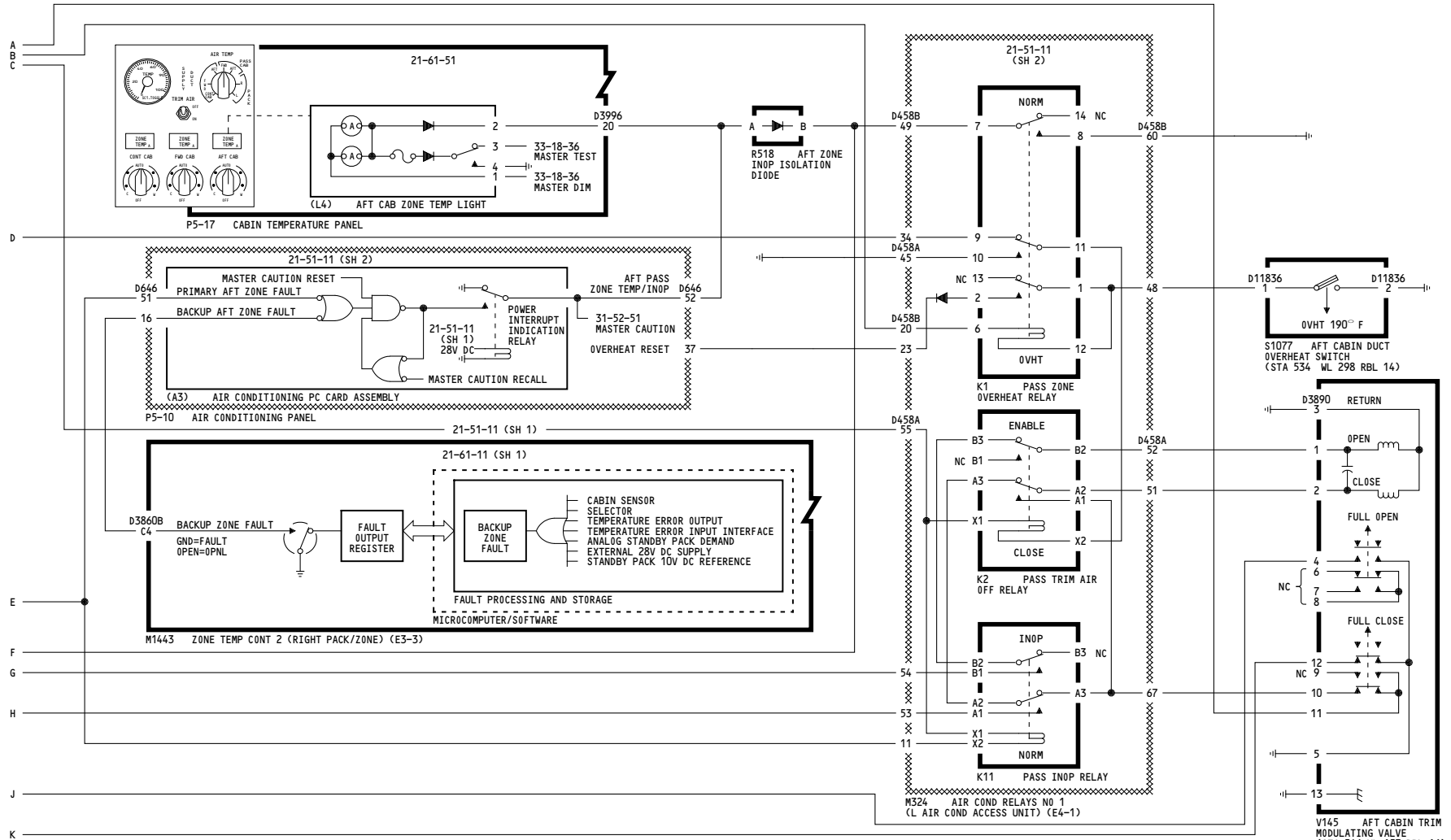
**TEMPERATURE CONTROL - AFT PASSENGER ZONE**

D280A203

**21-61-14**

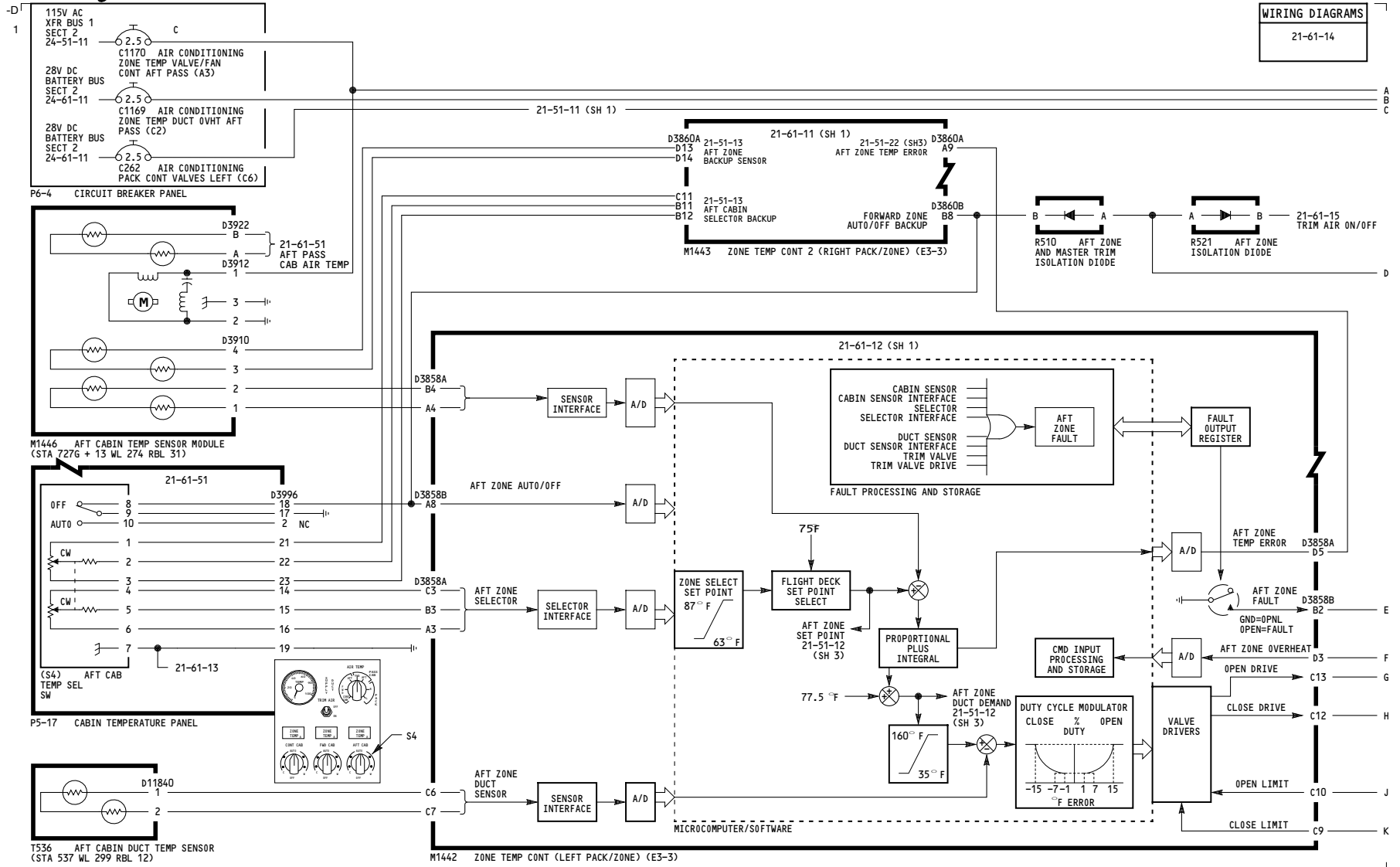


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YC001-YC022	<b>TEMPERATURE CONTROL - AFT PASSENGER ZONE</b>  D280A203
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**21-61-14**



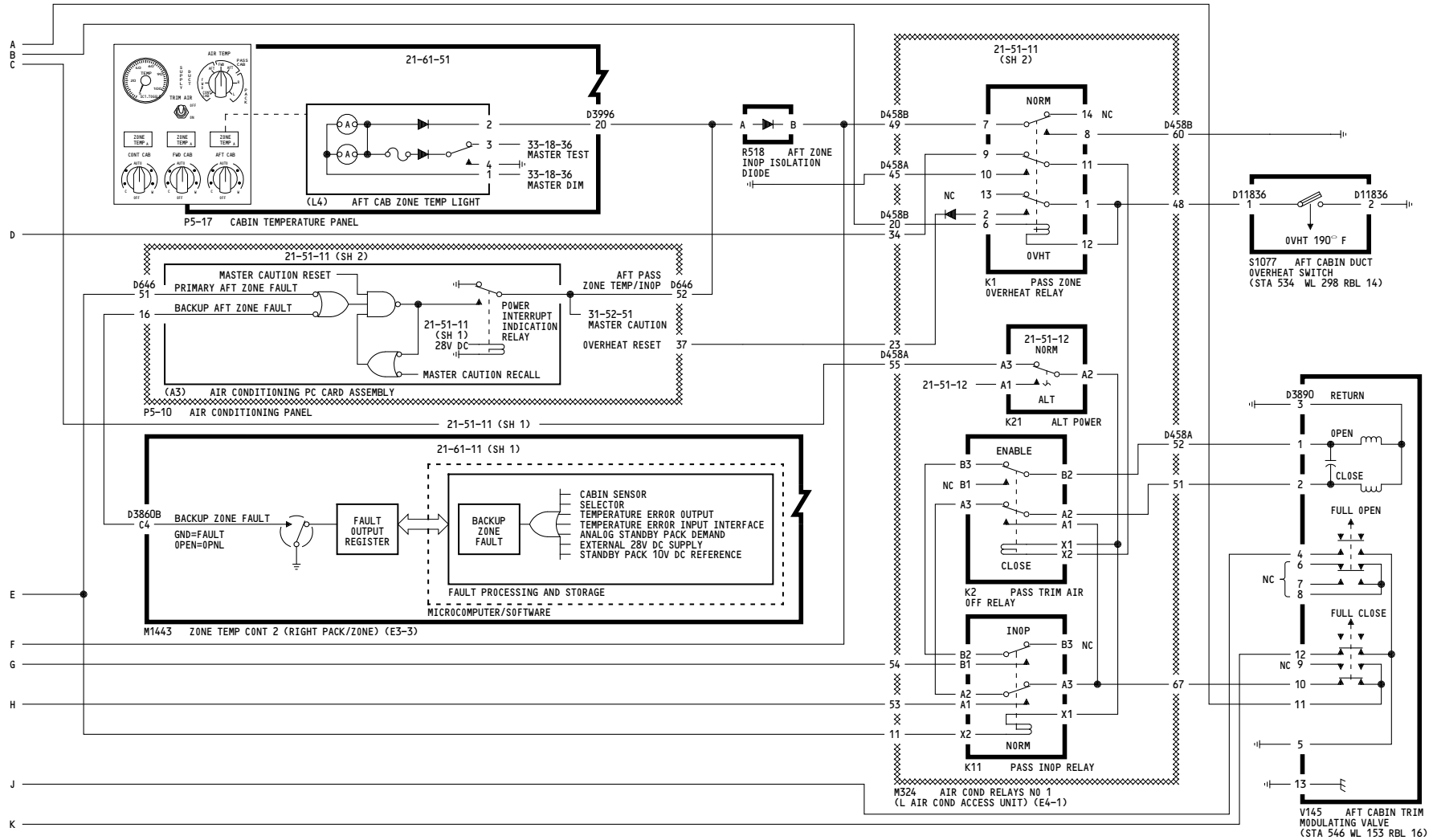
YC001-YC022

**TEMPERATURE CONTROL -  
AFT PASSENGER ZONE**

D280A203

**21-61-14**

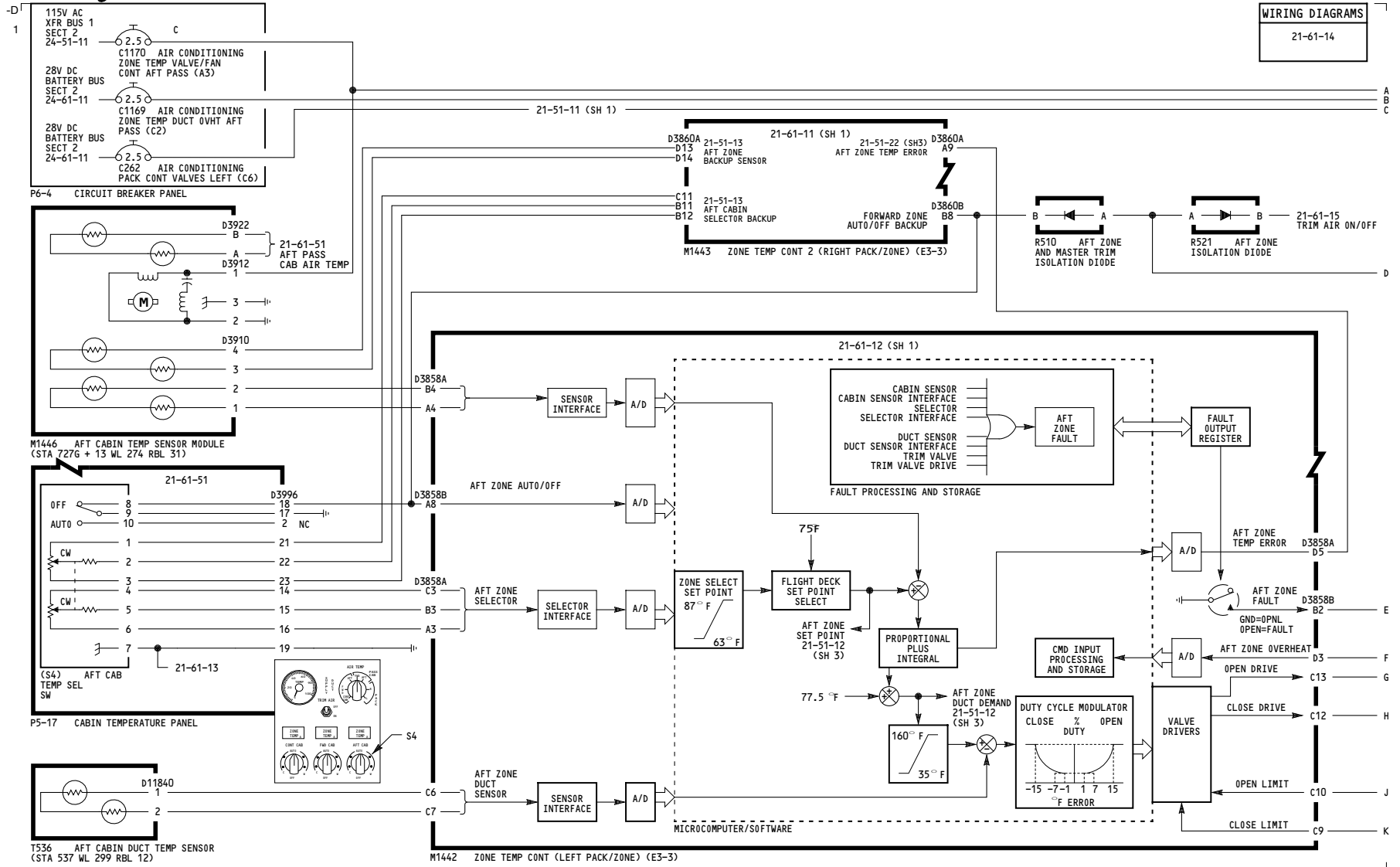
-B  
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YC001-YC022	<b>TEMPERATURE CONTROL - AFT PASSENGER ZONE</b>  D280A203
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Incorporates  
21-1133

**21-61-14**



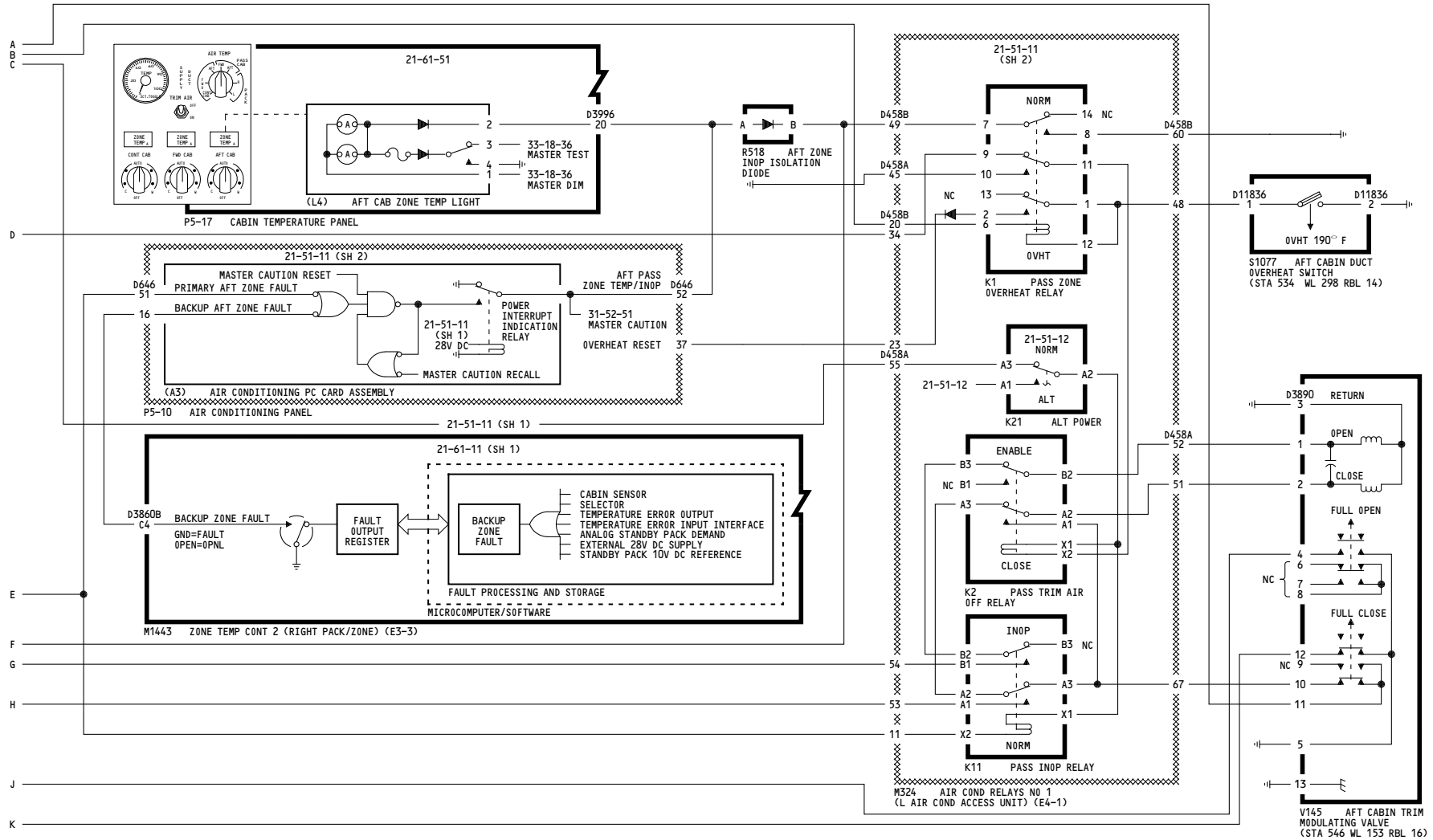
Y0023-YL430

**TEMPERATURE CONTROL -  
AFT PASSENGER ZONE**

D280A203

**21-61-14**

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2

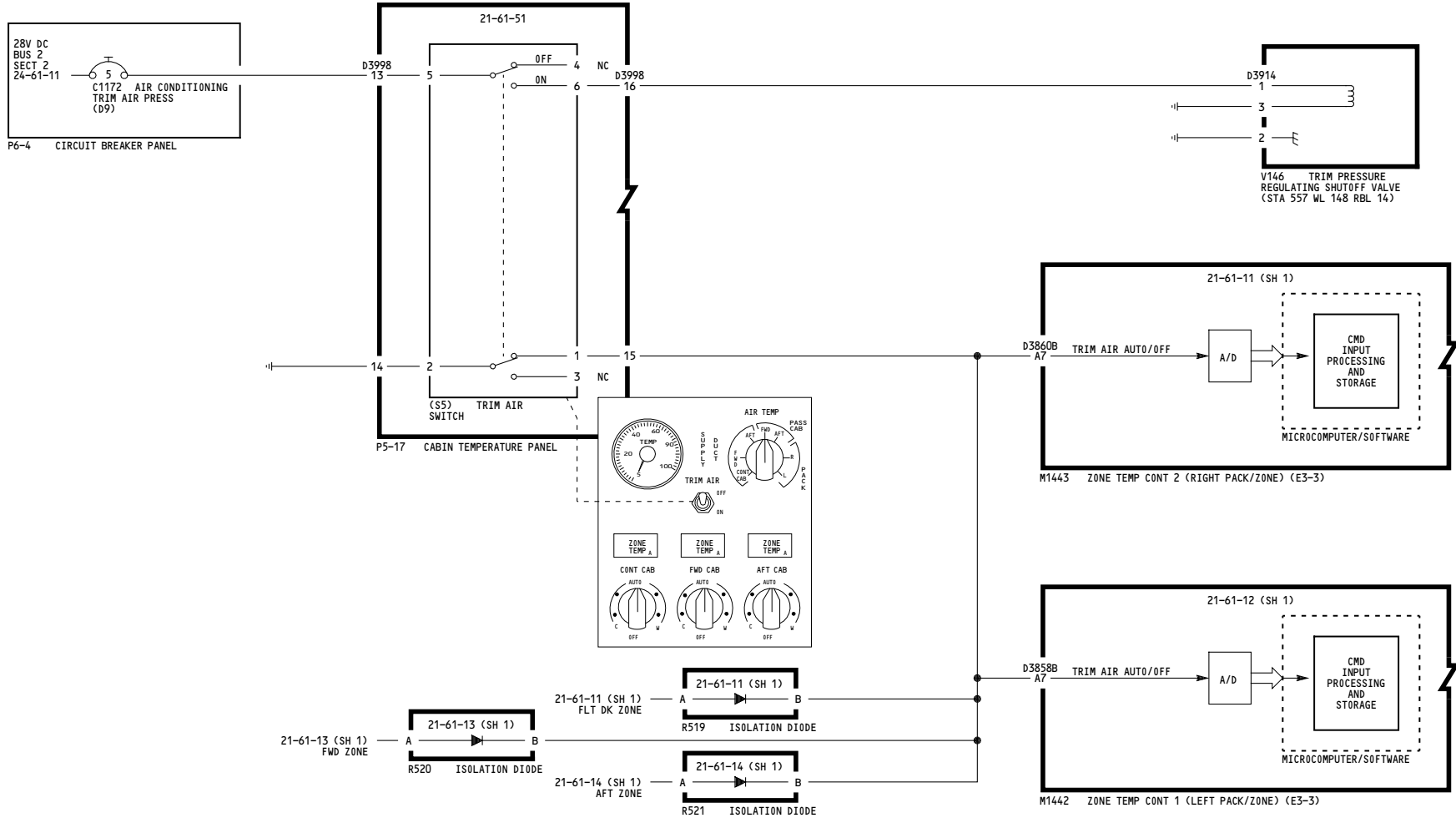


<p>YC023-YL430</p>	<p><b>TEMPERATURE CONTROL - AFT PASSENGER ZONE</b></p> <p>D280A203</p>
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**21-61-14**

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1

WIRING DIAGRAMS  
21-61-15



YC001-YL430	<b>TEMPERATURE CONTROL - TRIM PRESSURE REGULATION</b>
	D280A203

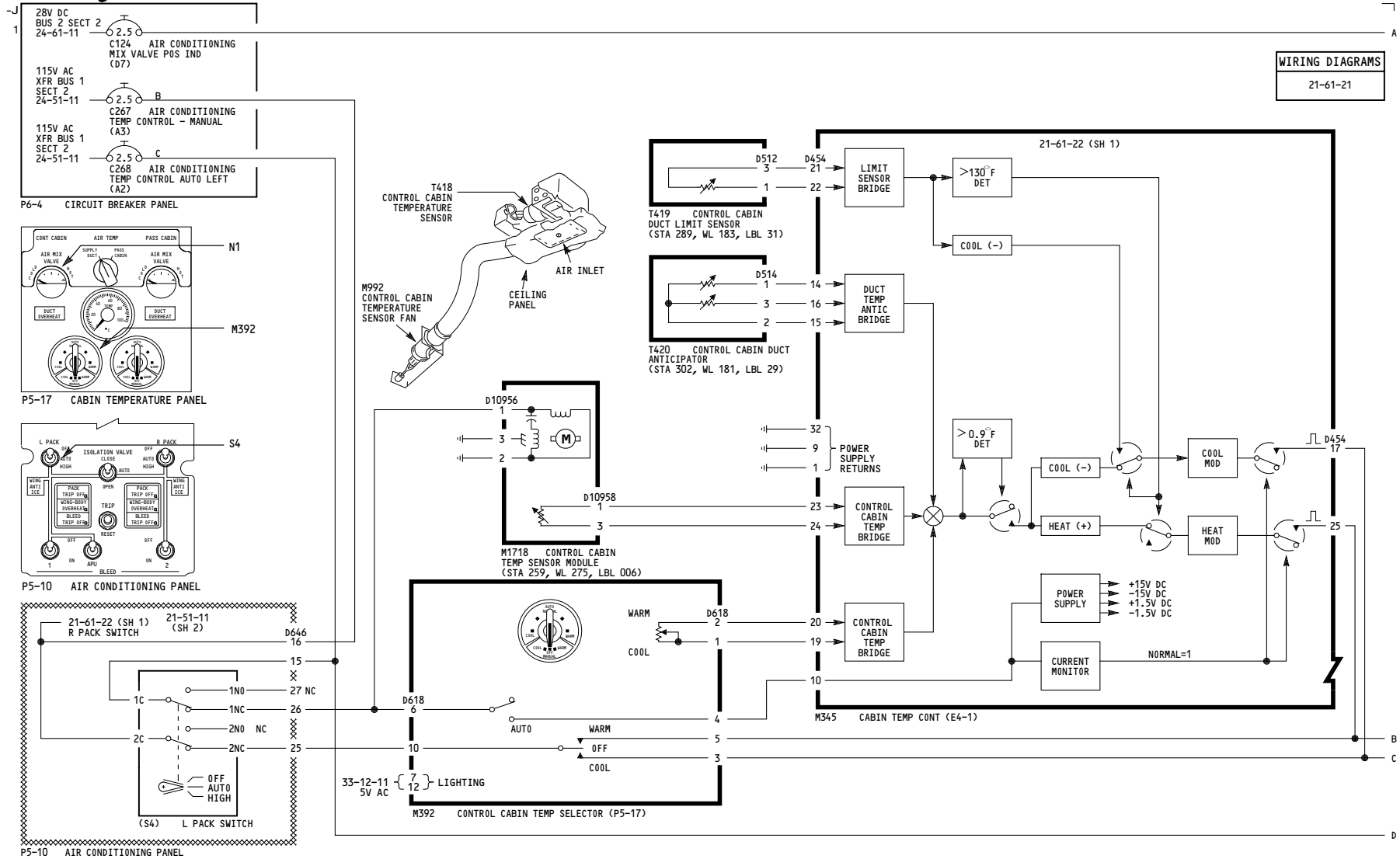
**21-61-15**

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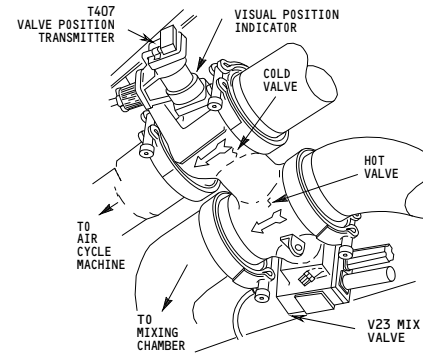
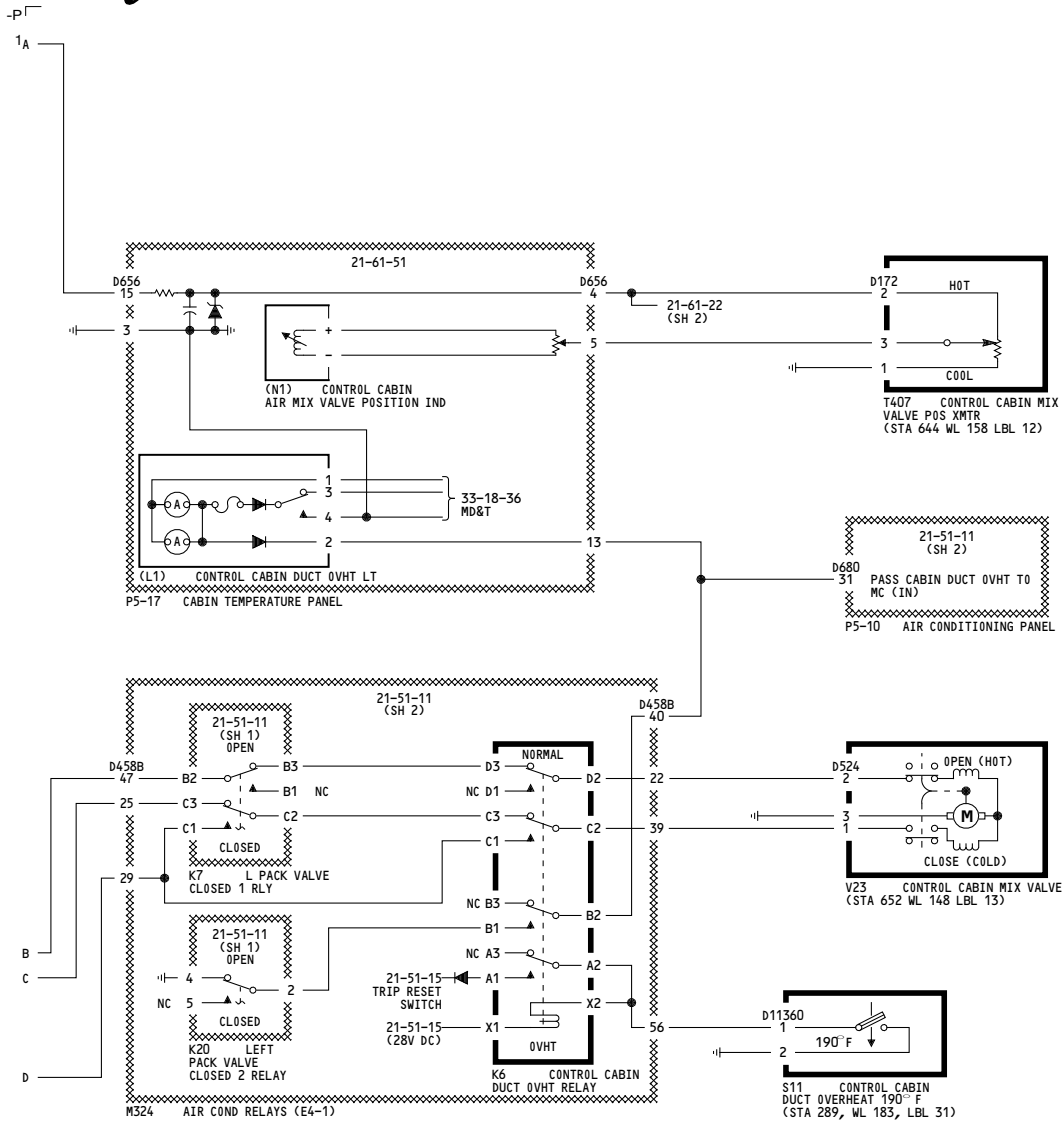
**WIRING DIAGRAMS**  
21-61-21



<p>YM643-YM670</p>	<p><b>TEMPERATURE CONTROL - CONTROL CABIN</b></p> <p>D280A203</p>
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**21-61-21**





YM643-YM670

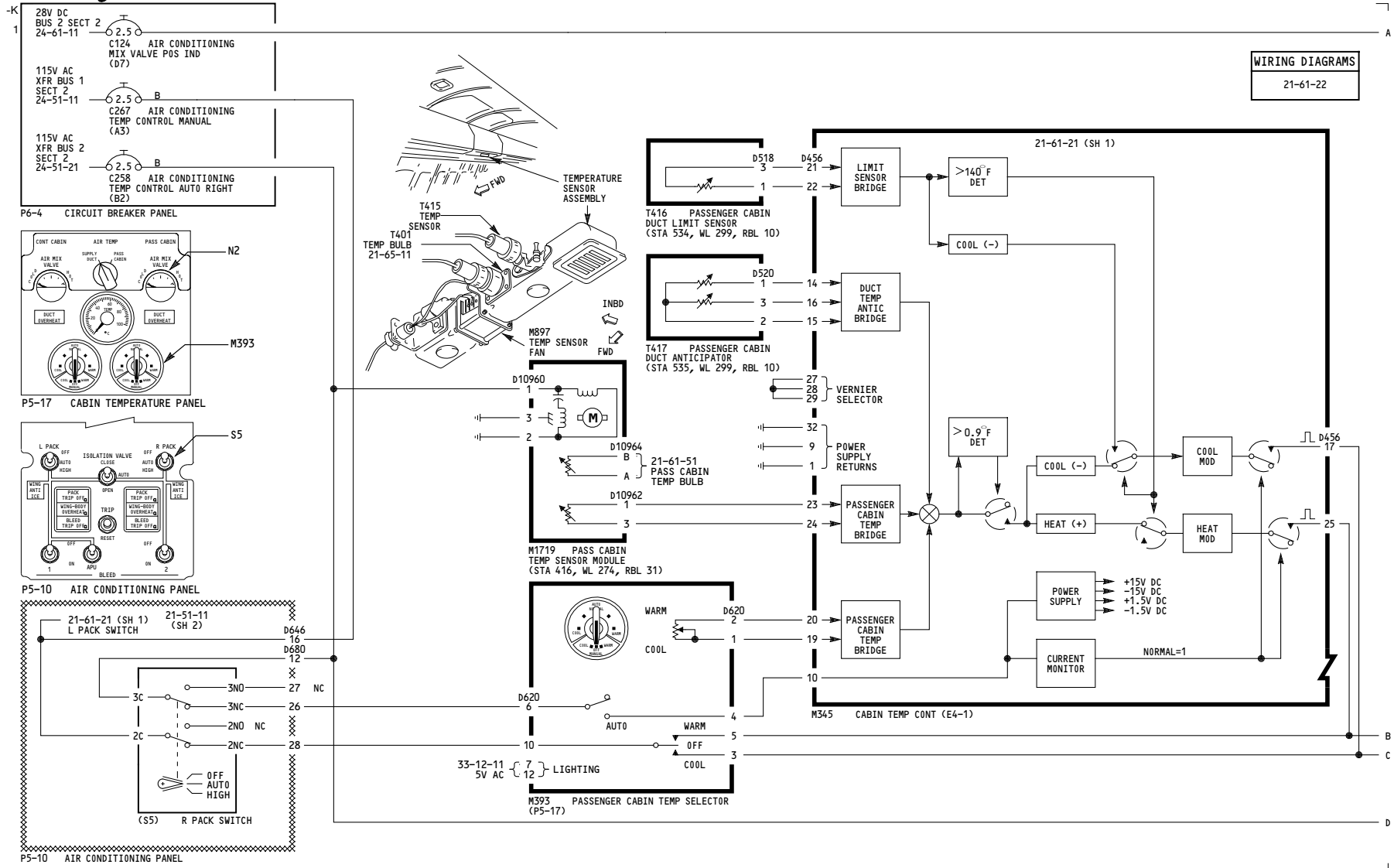
**TEMPERATURE CONTROL - CONTROL CABIN**

D280A203

**21-61-21**

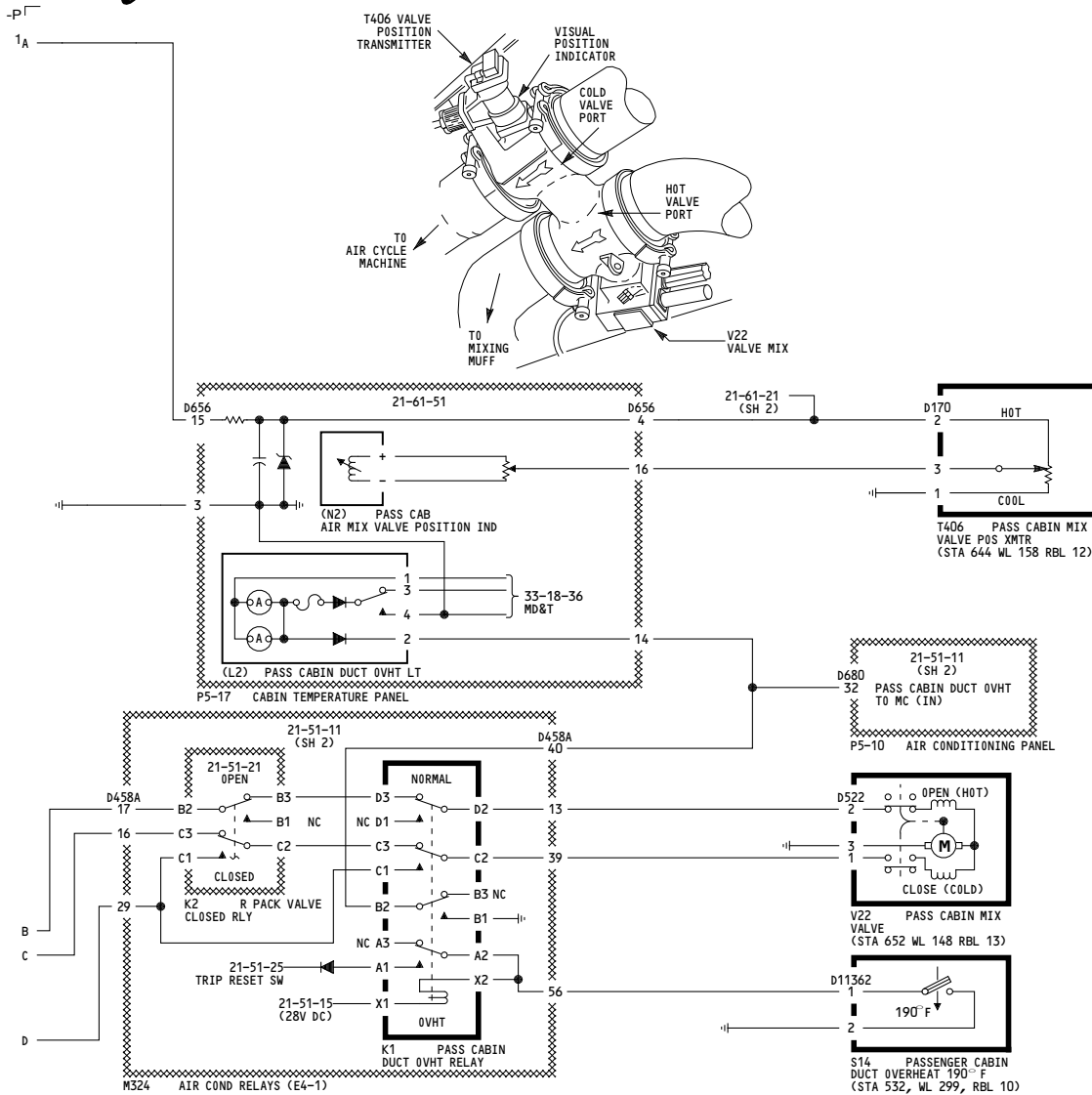
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**WIRING DIAGRAMS**  
21-61-22



<p>YM643-YM670</p>	<p><b>TEMPERATURE CONTROL - PASSENGER CABIN</b></p> <p>D280A203</p>
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**21-61-22**

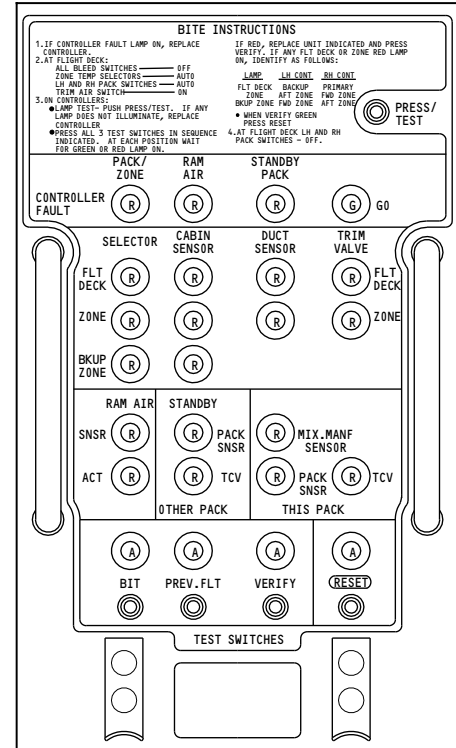
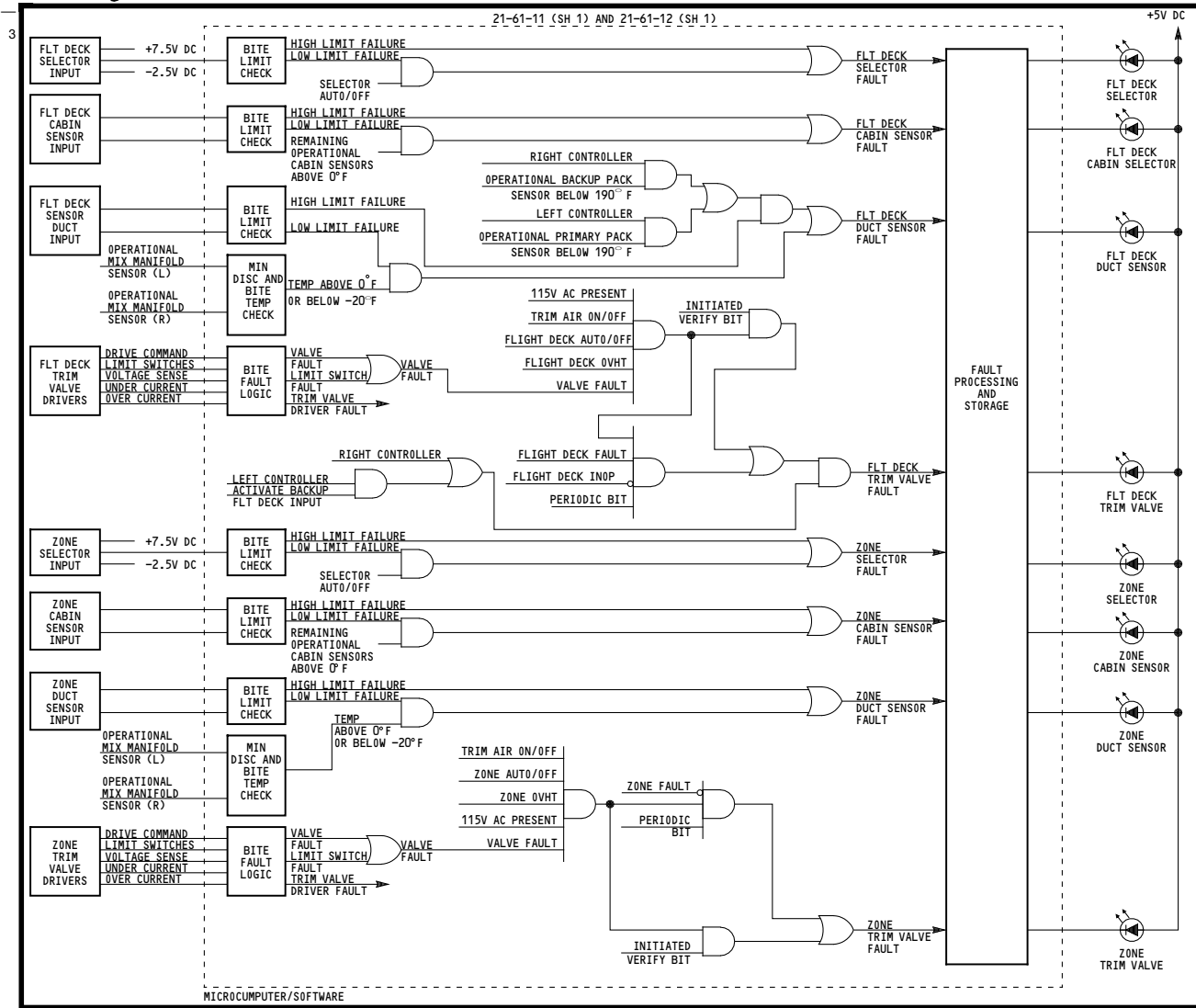


YM643-YM670

**TEMPERATURE CONTROL - PASSENGER CABIN**

D280A203

**21-61-22**



M1442 AND M1443 ZONE TEMP CONT 1 & 2 (TYPICAL) (E3-3)

YC001-YL430

**AIR CONDITIONING  
TEMPERATURE INDICATION**

D280A203

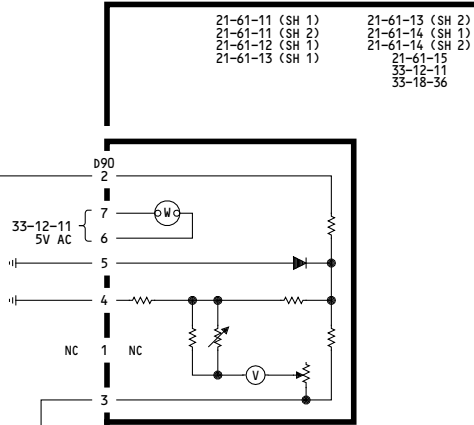
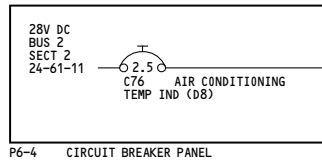
**21-61-31**

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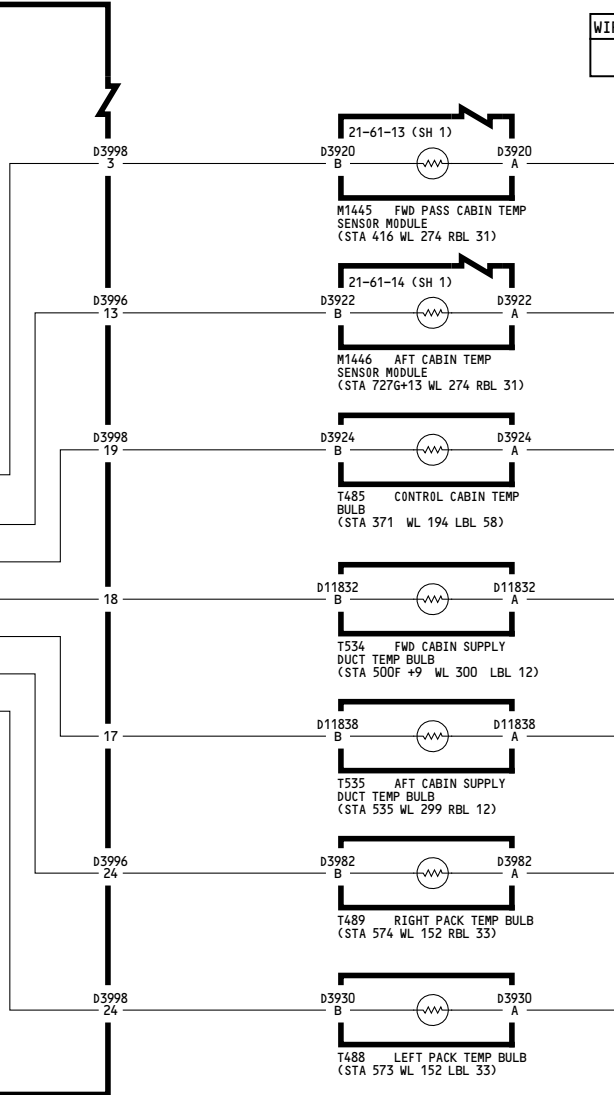
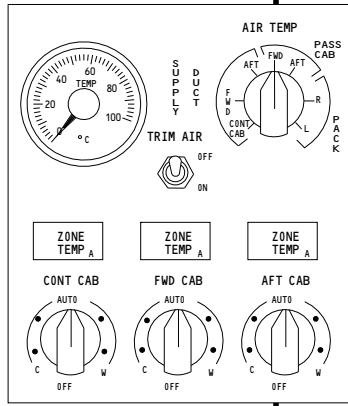
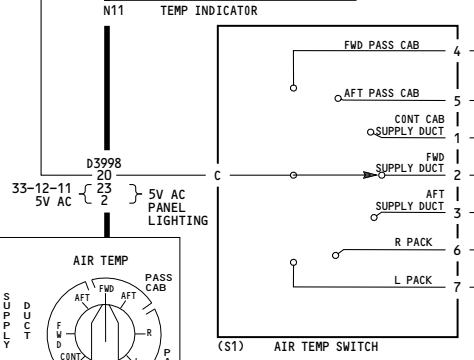
Feb 09/2009



-F-  
3



- 21-61-11 (SH 1)
- 21-61-11 (SH 2)
- 21-61-12 (SH 1)
- 21-61-13 (SH 1)
- 21-61-13 (SH 2)
- 21-61-14 (SH 1)
- 21-61-14 (SH 2)
- 21-61-15
- 33-12-11
- 33-18-36



YC001-YC011

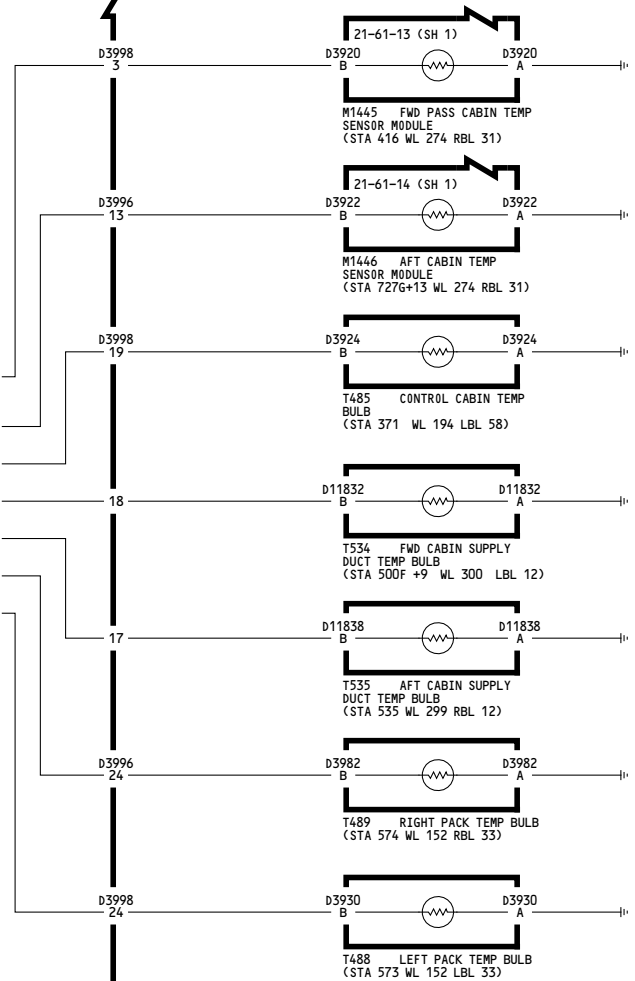
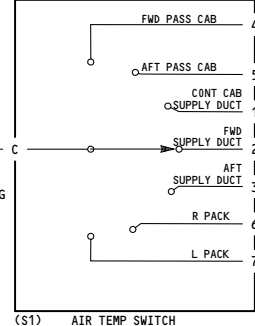
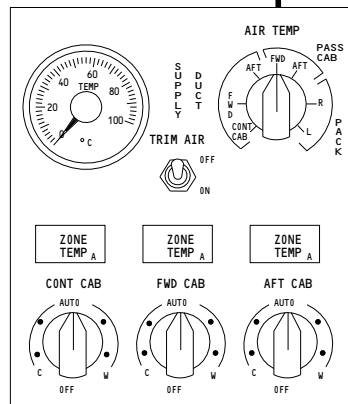
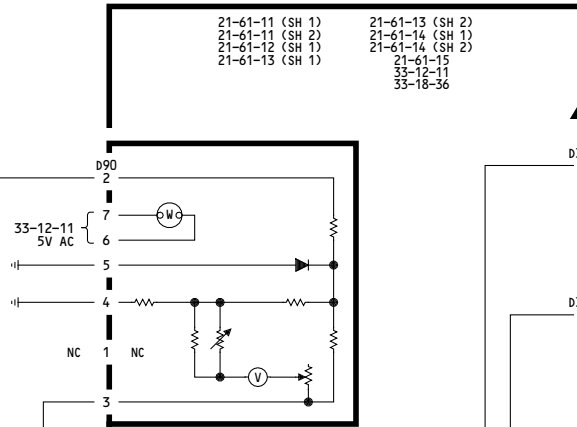
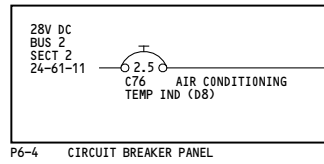
**AIR CONDITIONING TEMPERATURE INDICATION**

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WIRING DIAGRAMS  
21-61-51

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**AIR CONDITIONING TEMPERATURE INDICATION**

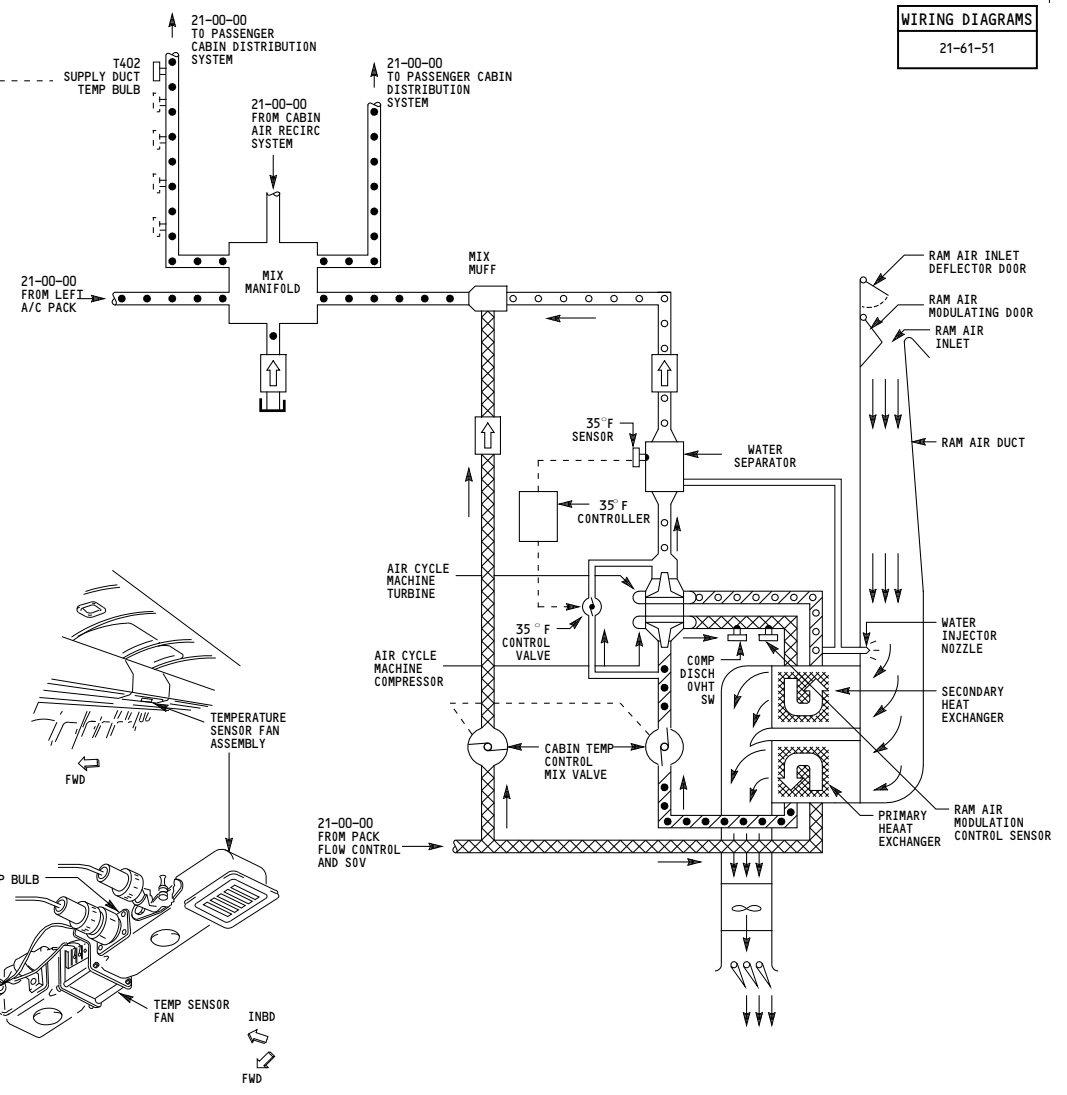
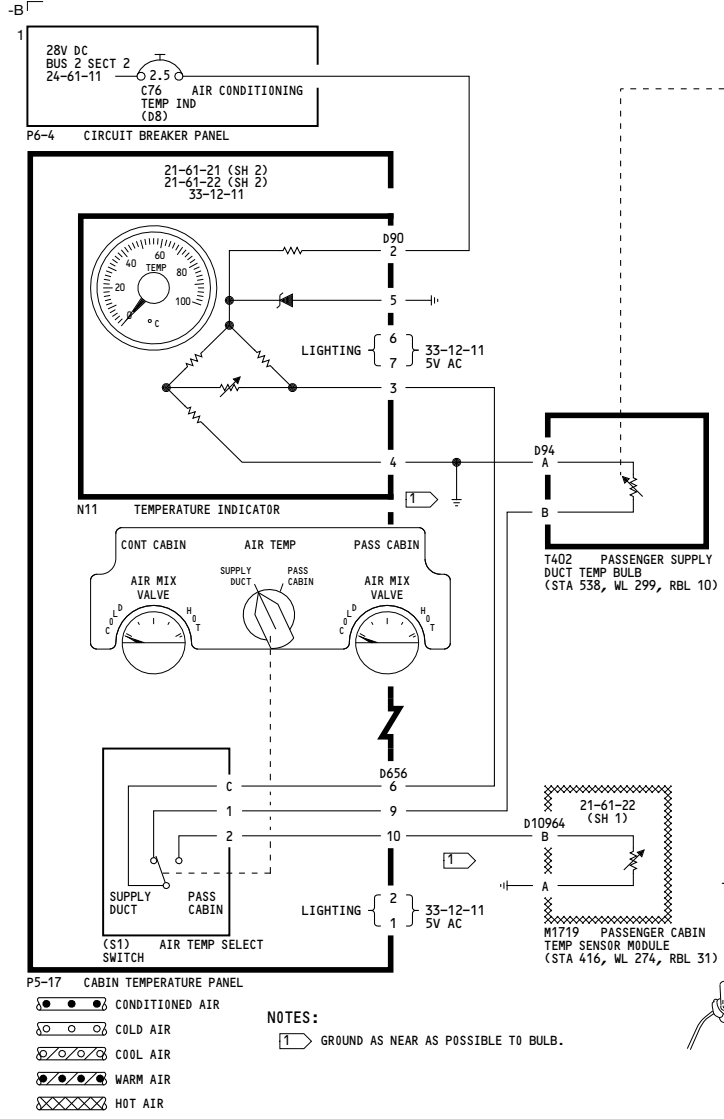
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**WIRING DIAGRAMS**  
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<p>YM643-YM670</p>	<p><b>AIR CONDITIONING TEMPERATURE INDICATION</b></p> <p>D280A203</p>
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