

CHAPTER

24

ELECTRICAL POWER



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ELECTRICAL POWER

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		4		BLANK	24-21-31		101		Jul 26/2006
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A = Added, R = Revised, D = Deleted, O = Overflow

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24-31-11		101		Jul 17/2007			102	1	Jul 26/2006
		102		Apr 18/2007				2	Jul 26/2006
		103		Feb 09/2009			103	1	Apr 18/2007
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							104	1	Feb 09/2009

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			2	Feb 09/2009				2	Jan 14/2008
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		102	1	Nov 11/2008					
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		103	1	Oct 20/2006					
			2	Oct 20/2006					
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		105	1	Nov 11/2008					
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A = Added, R = Revised, D = Deleted, O = Overflow

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ELECTRICAL POWER SIMPLIFIED	24-00-00		101		Jul 17/2007	YC001-YC030
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ELECTRICAL POWER UNIT LOCATION	24-00-10		101		Jul 17/2007	YC001-YC030
			102		Feb 09/2009	YC031-YM670
<u>AC GENERATOR DRIVE SYSTEM</u>						
IDG NO. 1	24-11-11		101		Feb 09/2009	ALL
IDG NO. 2	24-11-21		101		Feb 09/2009	ALL
<u>AC GENERATION SYSTEM</u>						
GENERATOR POWER AND REGULATION - NO. 1	24-21-11		101		Feb 09/2009	ALL
GENERATOR POWER AND REGULATION - NO. 2	24-21-21		101		Feb 09/2009	ALL
GENERATOR POWER AND REGULATION - APU	24-21-31		101		Jul 26/2006	YC001-YC004
			102		Jul 17/2007	YC005-YC030
			103		Feb 09/2009	YC031-YM670
GENERATOR CONTROL UNITS BLOCK (G10, G12, G14)	24-21-51		101		Feb 09/2009	ALL
BUS POWER CONTROL UNIT BLOCK (G15)	24-21-52		101		Feb 09/2009	ALL
<u>AC GENERATION CONTROL SYSTEM</u>						
GENERATOR CONTROL UNIT NO.1	24-22-11		101		Feb 09/2009	ALL
GENERATOR CONTROL UNIT NO.2	24-22-21		101		Feb 09/2009	ALL
GENERATOR CONTROL UNIT APU	24-22-31		101		Feb 09/2009	ALL
<u>AC GENERATION BUS CONTROL</u>						
TRANSFER BUS CONTROL NO.1	24-23-11		101		Feb 09/2009	ALL
TRANSFER BUS CONTROL NO.2	24-23-21		101		Feb 09/2009	ALL

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AC TIE BUS	24-23-31		101		Feb 09/2009	ALL
GROUND SERVICE BUS CONTROL	24-23-51		101		Feb 09/2009	ALL
<u>DIFFERENTIAL CURRENT PROTECTION</u>						
DIFFERENTIAL CURRENT PROTECTION GEN NO.1	24-24-11		101		Feb 09/2009	ALL
DIFFERENTIAL CURRENT PROTECTION GEN NO.2	24-24-21		101		Feb 09/2009	ALL
DIFFERENTIAL CURRENT PROTECTION APU GEN	24-24-31		101		Feb 09/2009	ALL
<u>AC GENERATION METERS</u>						
AC INDICATION P5-13	24-28-11		101		Nov 11/2008	YC001-YC030
			102		Feb 09/2009	YK901-YM670
AC SYSTEM GENERATOR & APU INDICATION P5-4	24-28-21		101		Feb 09/2009	ALL
SWITCHING P5-4	24-28-22		101		Feb 09/2009	ALL
GENERATOR DRIVE & STANDBY POWER SWITCHING INDICATION P5-5	24-28-31		101		Feb 09/2009	ALL
AUTOMATIC LOAD SHED GALLEYS & MAIN BUSES	24-28-41		101		Jul 17/2007	YC001-YC030
			102		Feb 09/2009	YC031-YL430
			103		Jan 14/2008	YM643-YM670
<u>DC GENERATION SYSTEM</u>						
BATTERY AND BATTERY CHARGER	24-31-11		101		Jul 17/2007	YC001-YC002 YC008-YC026
			102		Apr 18/2007	YC003-YC007
			103		Feb 09/2009	YC028-YK910 YK918 YL421-YL425 YM643-YM646
			104		Feb 09/2009	YK911-YK917 YK919-YL401 YL426-YL430 YM647-YM670
BATTERY BUS	24-31-12		101		Jul 17/2007	YC001-YC050



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BATTERY BUS (cont.)	24-31-12		102		Feb 09/2009	YK901-YM670	
<u>MAIN DC BUSES</u>							
MAIN DC BUSES	24-32-11		101		Feb 09/2009	ALL	
<u>DC GENERATION SYSTEM AND INDICATIONS</u>							
DC VOLTAGE AND CURRENT INDICATIONS	24-33-11		101		Feb 09/2009	ALL	
ELEC LIGHT AND ALPHANUMERIC DISPLAY	24-33-12		101		Aug 10/2009	ALL	
DC BUS INDICATION DFDAU	24-33-13		101		Feb 09/2009	ALL	
<u>STANDBY POWER SYSTEM</u>							
STANDBY POWER	24-34-11		101		Jul 17/2007	YC001-YC030	
			102		Feb 09/2009	YC031-YM670	
<u>AC EXTERNAL POWER</u>							
EXTERNAL POWER	24-41-11		101		Feb 09/2009	ALL	
<u>MAIN 115-VOLT AC POWER DISTRIBUTION</u>							
115V AC TRANSFER BUS 1	24-51-11		101	1	Jul 17/2007	YC001-YC030	
				2	Jul 17/2007	YC001-YC030	
				102	1	Jul 26/2006	YK901-YK906
				2	Jul 26/2006	YK901-YK906	
				103	1	Apr 18/2007	YK907-YK909
				2	Apr 18/2007	YK907-YK909	
				104	1	Feb 09/2009	YK910-YM670
				2	Feb 09/2009	YK910-YM670	
115V AC TRANSFER BUS 2	24-51-21		101	1	Jul 17/2007	YC001-YC030	
				2	Jul 17/2007	YC001-YC030	



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115V AC TRANSFER BUS 2 (cont.)	24-51-21		102	1	Nov 11/2008	YC031-YC050 YK907-YK911 YL421-YL426			
				2	Nov 11/2008	YC031-YC050 YK907-YK911 YL421-YL426			
			103	1	Oct 20/2006	YK901-YK906			
				2	Oct 20/2006	YK901-YK906			
			104	1	Feb 09/2009	YK912-YL401 YL427-YL430 YM652			
				2	Feb 09/2009	YK912-YL401 YL427-YL430 YM652			
			105	1	Nov 11/2008	YM643-YM651 YM653-YM670			
				2	Nov 11/2008	YM643-YM651 YM653-YM670			
			<u>GROUND SERVICE 115-VOLT AC POWER DISTRIBUTION</u>						
			115V AC GROUND SERVICE BUS	24-52-11		101	1	Jul 17/2007	YC001-YC030 YK901-YK906
	2	Jul 17/2007				YC001-YC030 YK901-YK906			
102	1	Feb 09/2009				YC031-YC050 YK907-YM670			
	2	Feb 09/2009				YC031-YC050 YK907-YM670			
<u>28V AC BUSES</u>									
28V AC BUSES	24-53-11		101	1	Jul 17/2007	YC001-YC030 YK901-YK906			
				2	Jan 14/2008	YC001-YC030 YK901-YK906			
			102	1	Feb 09/2009	YC031-YC050 YK907-YL430			
				2	Feb 09/2009	YC031-YC050 YK907-YL430			
			103	1	Jan 14/2008	YM643-YM670			
				2	Jan 14/2008	YM643-YM670			



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<u>115V AC STANDBY BUS</u>						
115V AC STANDBY BUS	24-54-11		101		Feb 09/2009	ALL
<u>DC POWER DISTRIBUTION</u>						
28V DC BUSES	24-61-11		101		Feb 09/2009	ALL

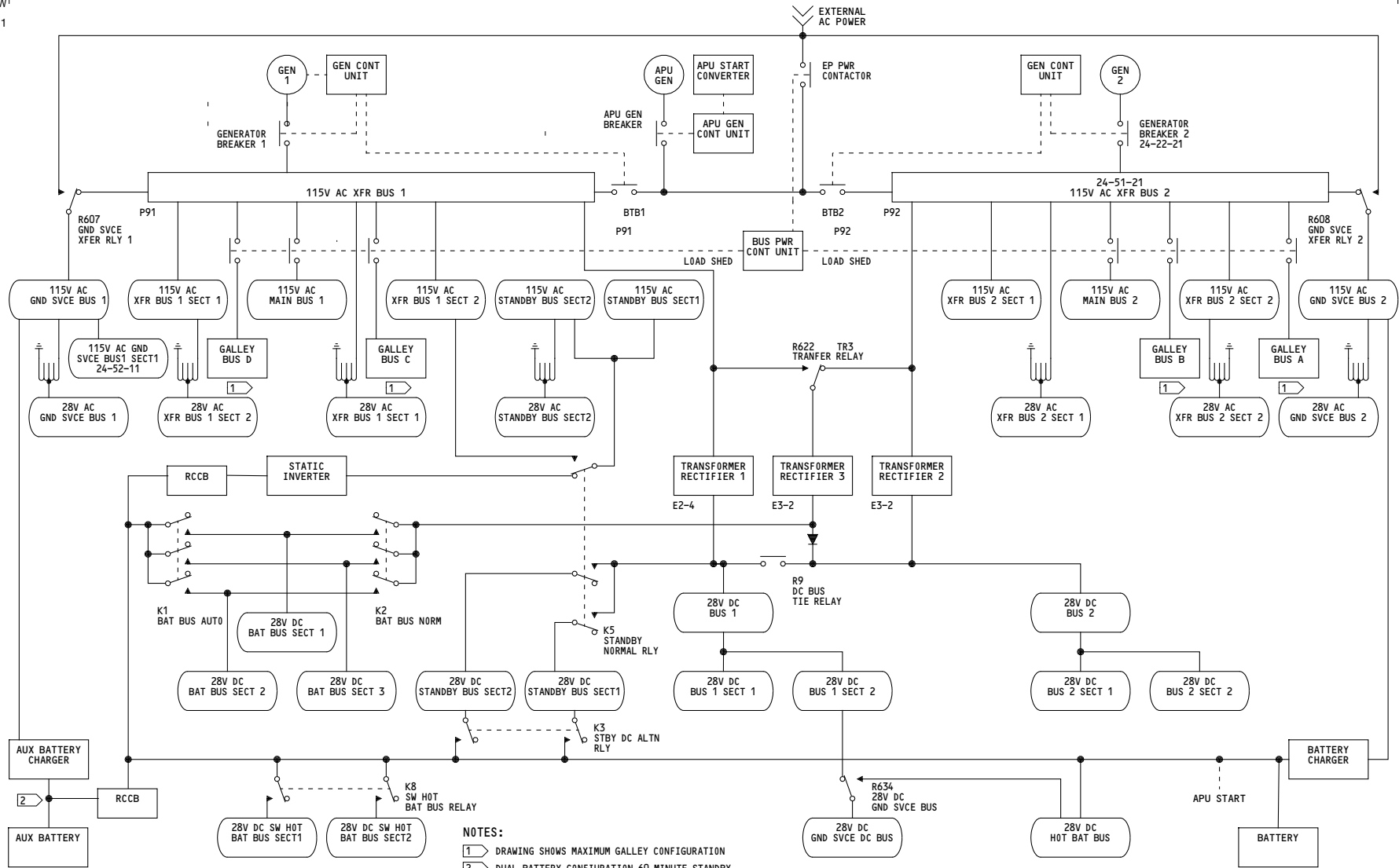
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CH-SC-SU	Title
24-52-11	115V AC GROUND SERVICE BUS
24-54-11	115V AC STANDBY BUS
24-51-11	115V AC TRANSFER BUS 1
24-51-21	115V AC TRANSFER BUS 2
24-53-11	28V AC BUSES
24-61-11	28V DC BUSES
24-28-11	AC INDICATION P5-13
24-28-21	AC SYSTEM GENERATOR & APU INDICATION P5-4
24-23-31	AC TIE BUS
24-28-41	AUTOMATIC LOAD SHED GALLEYS & MAIN BUSES
24-31-11	BATTERY AND BATTERY CHARGER
24-31-12	BATTERY BUS
24-21-52	BUS POWER CONTROL UNIT BLOCK (G15)
24-33-13	DC BUS INDICATION DFDAU
24-33-11	DC VOLTAGE AND CURRENT INDICATIONS
24-24-31	DIFFERENTIAL CURRENT PROTECTION APU GEN
24-24-11	DIFFERENTIAL CURRENT PROTECTION GEN NO.1
24-24-21	DIFFERENTIAL CURRENT PROTECTION GEN NO.2
24-33-12	ELEC LIGHT AND ALPHANUMERIC DISPLAY

CH-SC-SU	Title
24-00-00	ELECTRICAL POWER SIMPLIFIED
24-00-10	ELECTRICAL POWER UNIT LOCATION
24-41-11	EXTERNAL POWER
24-22-31	GENERATOR CONTROL UNIT APU
24-22-11	GENERATOR CONTROL UNIT NO.1
24-22-21	GENERATOR CONTROL UNIT NO.2
24-21-51	GENERATOR CONTROL UNITS BLOCK (G10, G12, G14)
24-28-31	GENERATOR DRIVE & STANDBY POWER SWITCHING INDICATION P5-5
24-21-31	GENERATOR POWER AND REGULATION - APU
24-21-11	GENERATOR POWER AND REGULATION - NO. 1
24-21-21	GENERATOR POWER AND REGULATION - NO. 2
24-23-51	GROUND SERVICE BUS CONTROL
24-11-11	IDG NO. 1
24-11-21	IDG NO. 2
24-32-11	MAIN DC BUSES
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24-28-22	SWITCHING P5-4
24-23-11	TRANSFER BUS CONTROL NO.1
24-23-21	TRANSFER BUS CONTROL NO.2

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NOTES:
 1 DRAWING SHOWS MAXIMUM GALLEY CONFIGURATION
 2 DUAL BATTERY CONFIGURATION 60 MINUTE STANDBY

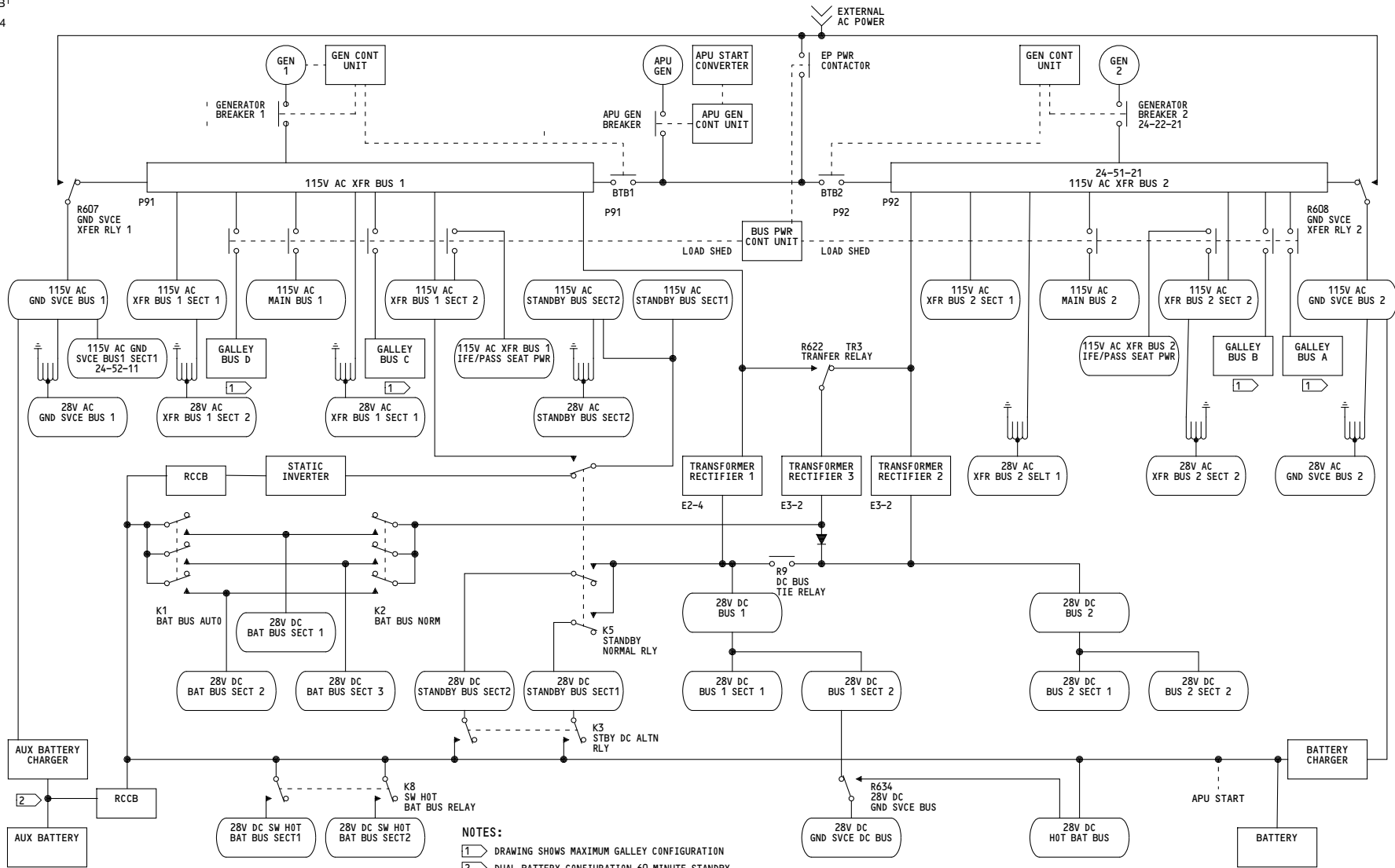
YC001-YC030	ELECTRICAL POWER SIMPLIFIED
	D280A203

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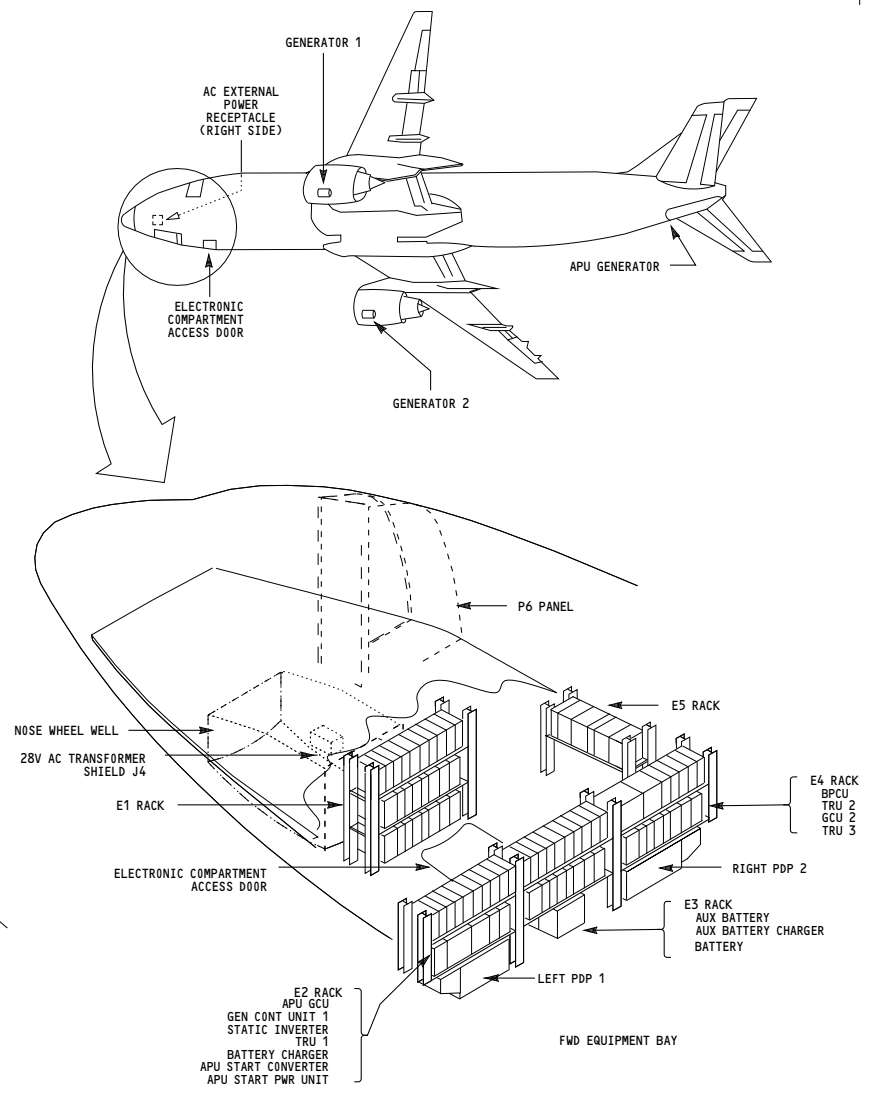
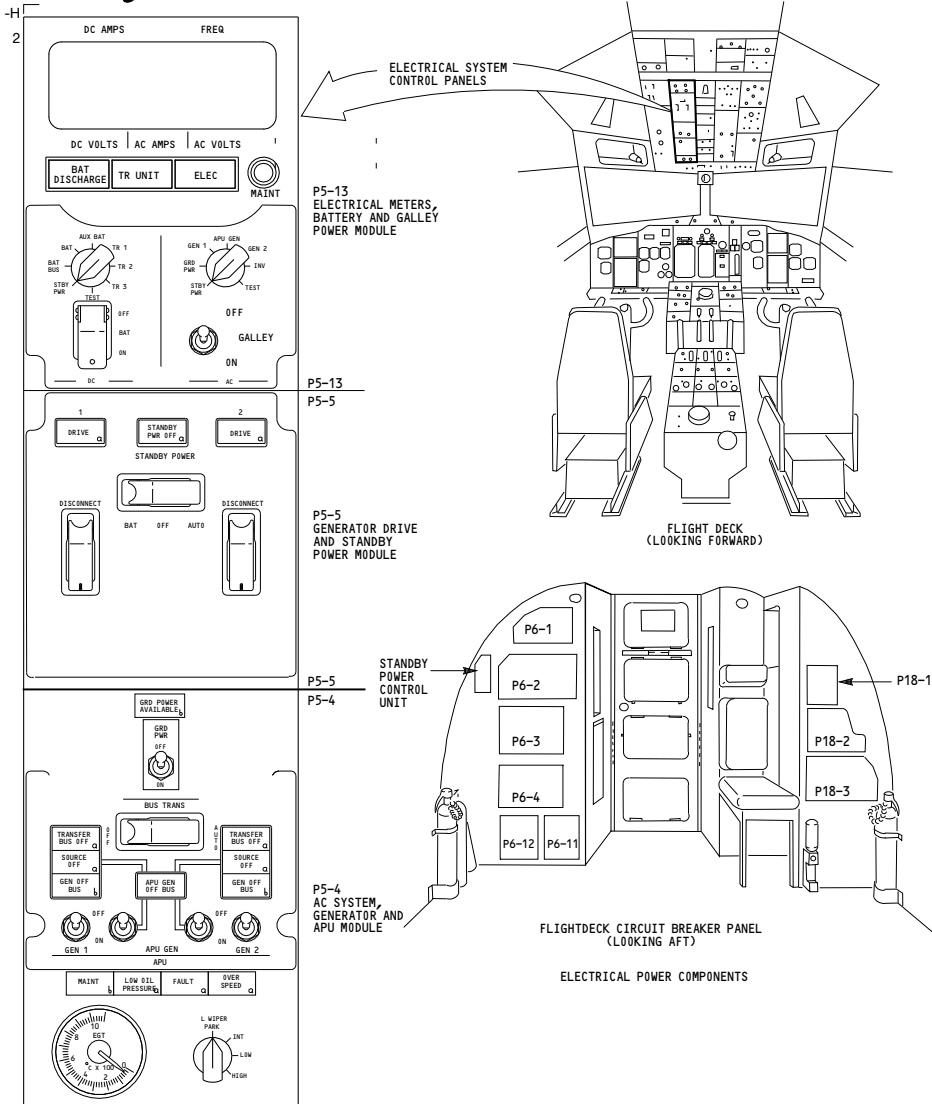
NOTES:
 1 DRAWING SHOWS MAXIMUM GALLEY CONFIGURATION
 2 DUAL BATTERY CONFIGURATION 60 MINUTE STANDBY

YC031-YM670	ELECTRICAL POWER SIMPLIFIED D280A203
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YC001-YC030

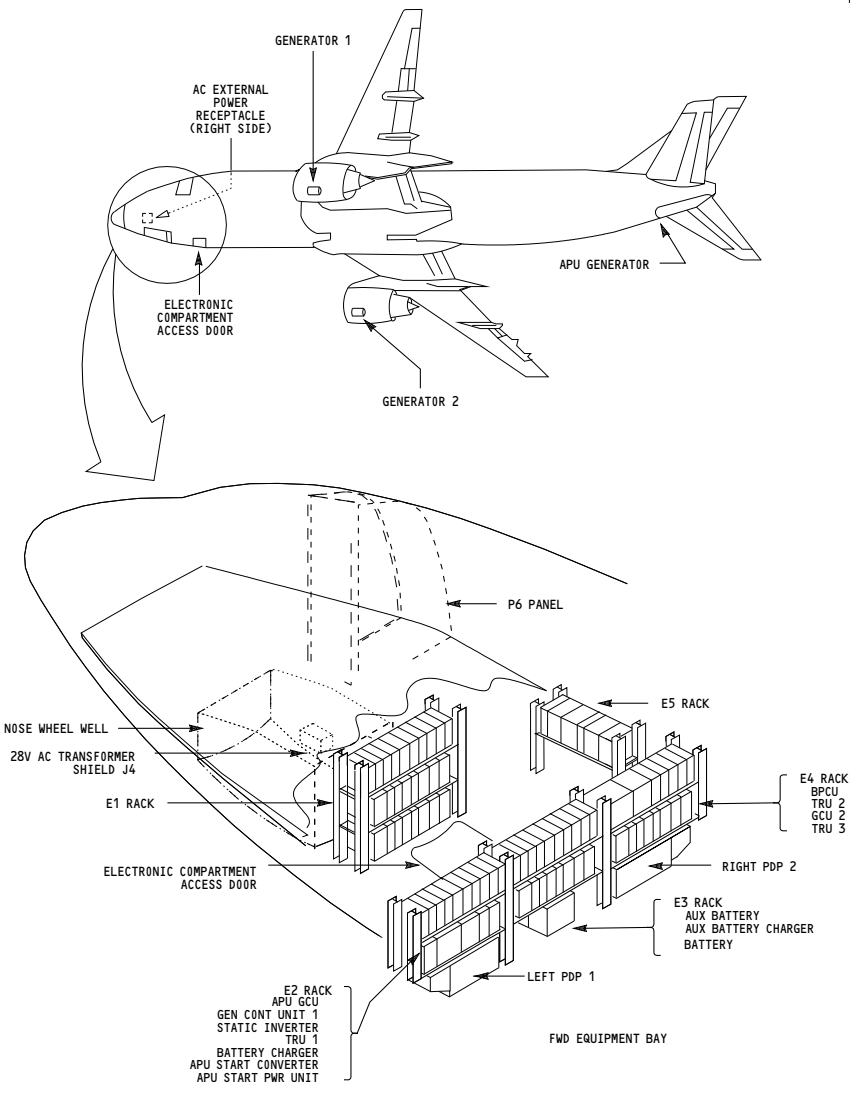
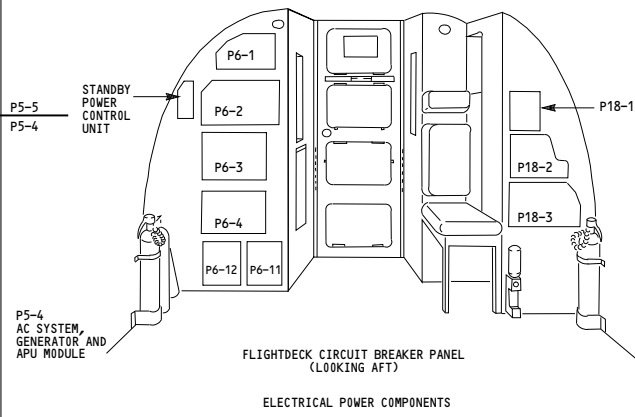
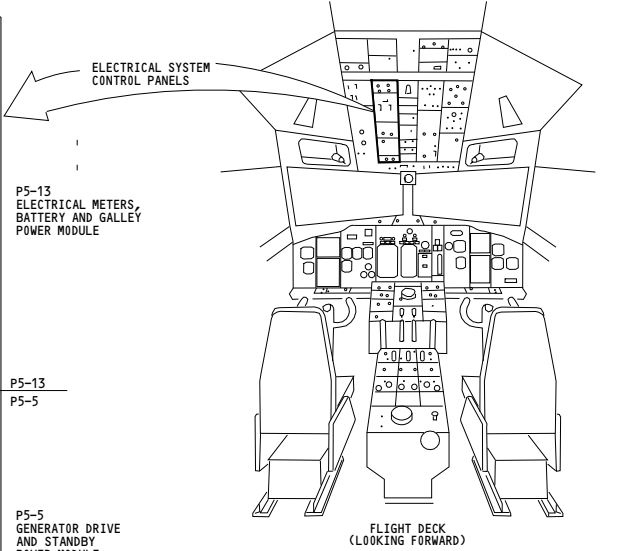
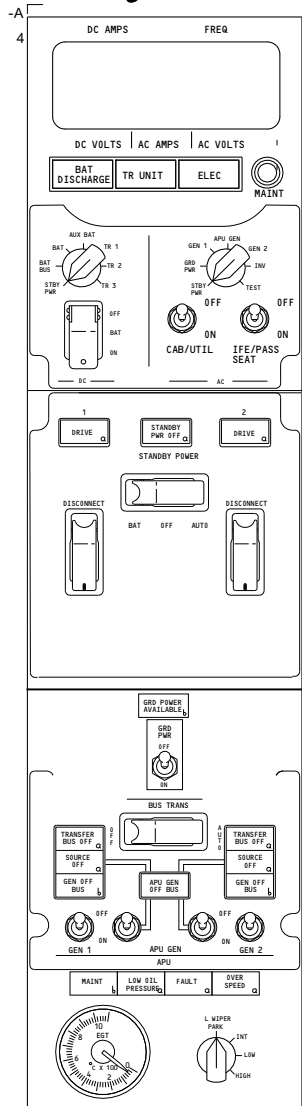
ELECTRICAL POWER UNIT LOCATION

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YC031-YM670

ELECTRICAL POWER UNIT LOCATION

D280A203

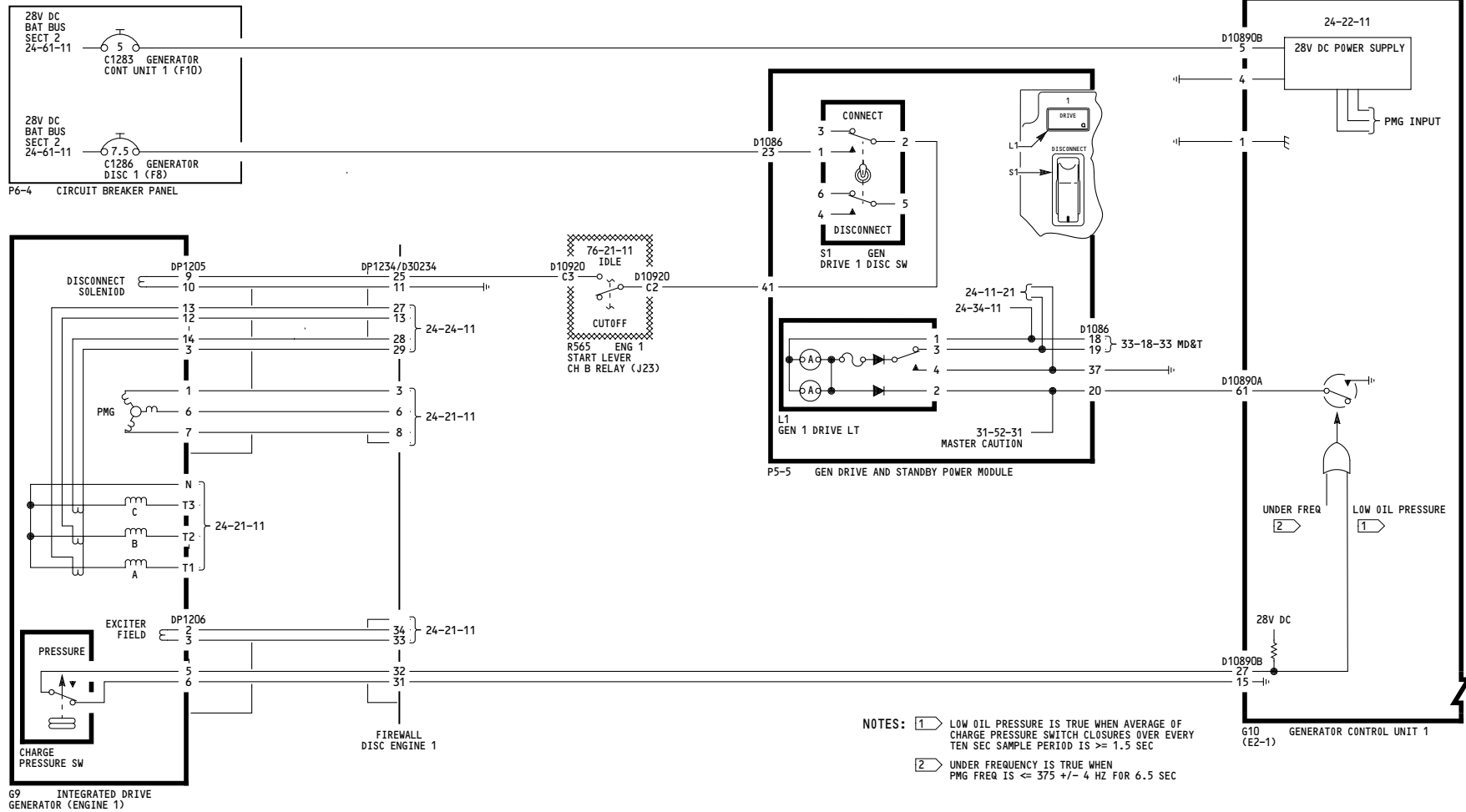
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24-11-11



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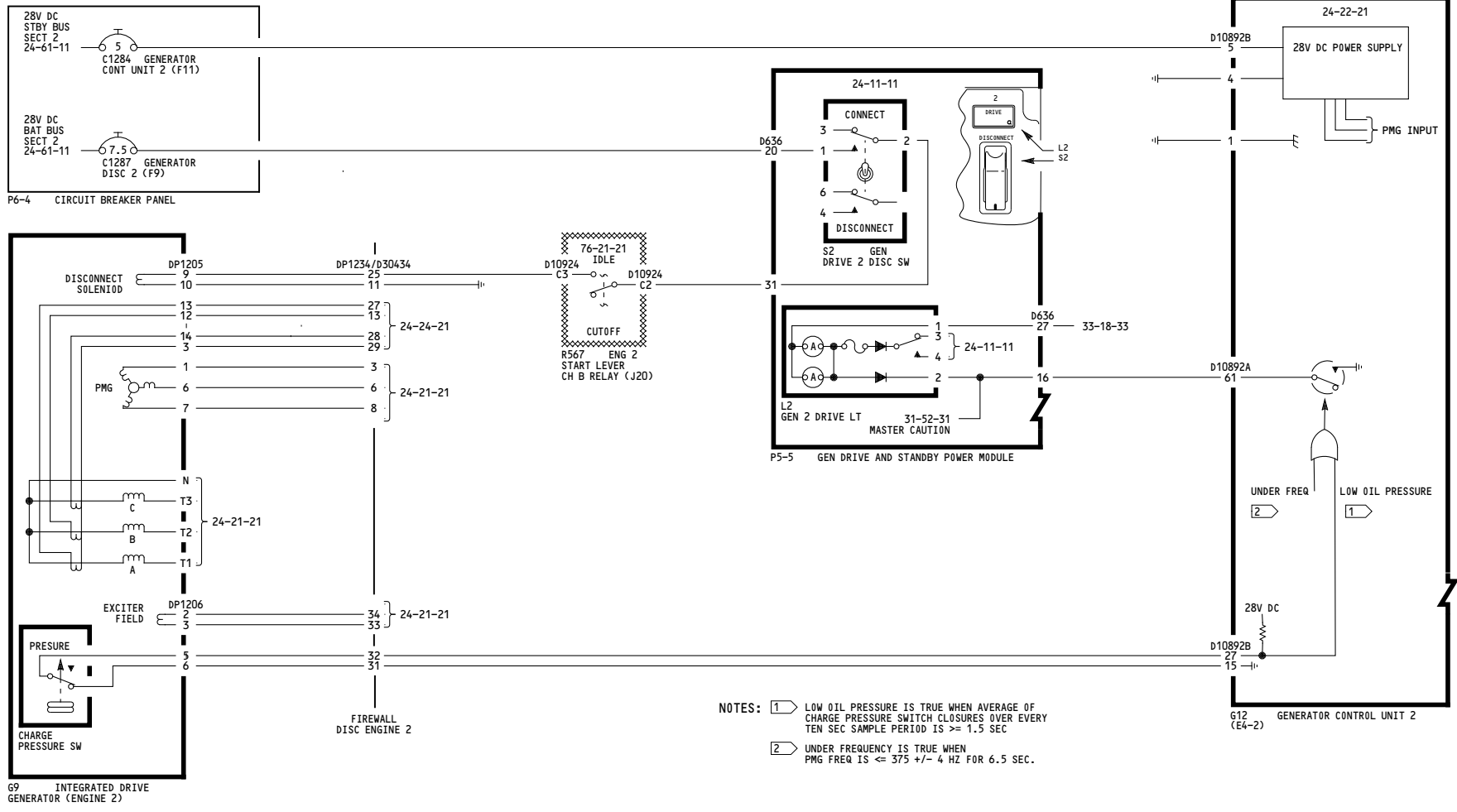
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WIRING DIAGRAMS
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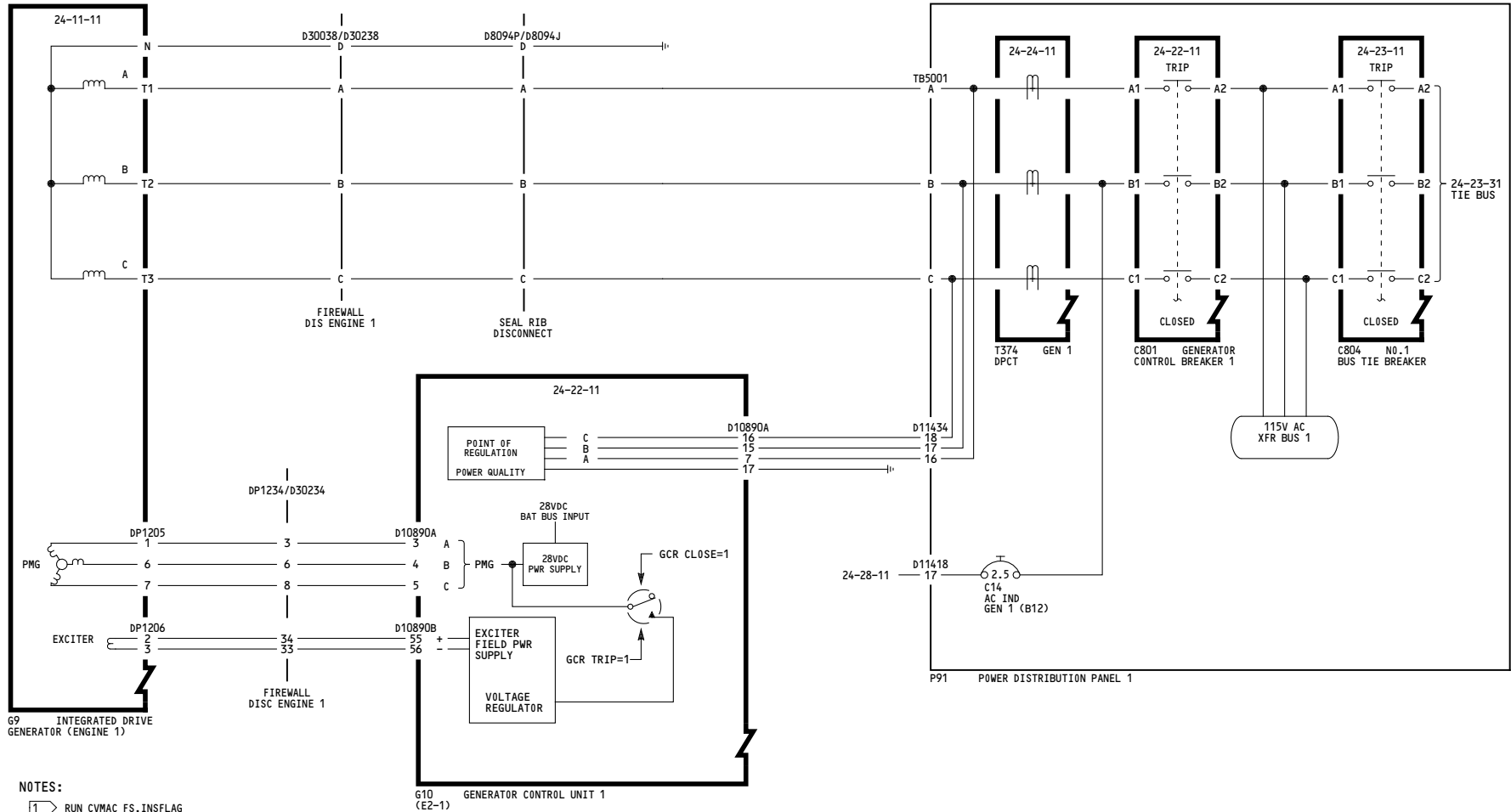


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	D280A203

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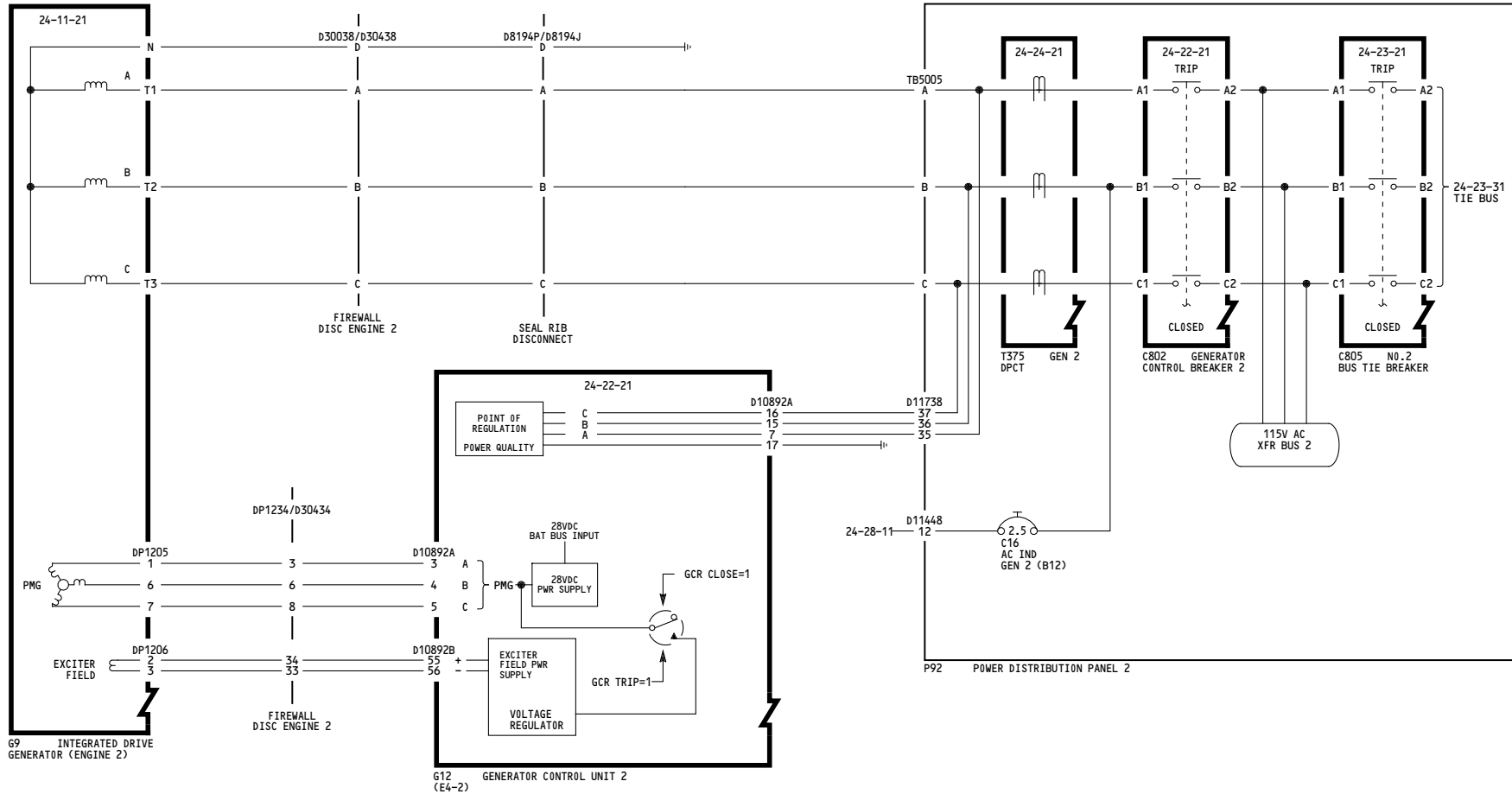


NOTES:
1 RUN CVMAC FS.INSFLAG
2

ALL	<p>GENERATOR POWER AND REGULATION - NO. 1</p> <p>D280A203</p>
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WIRING DIAGRAMS
24-21-21

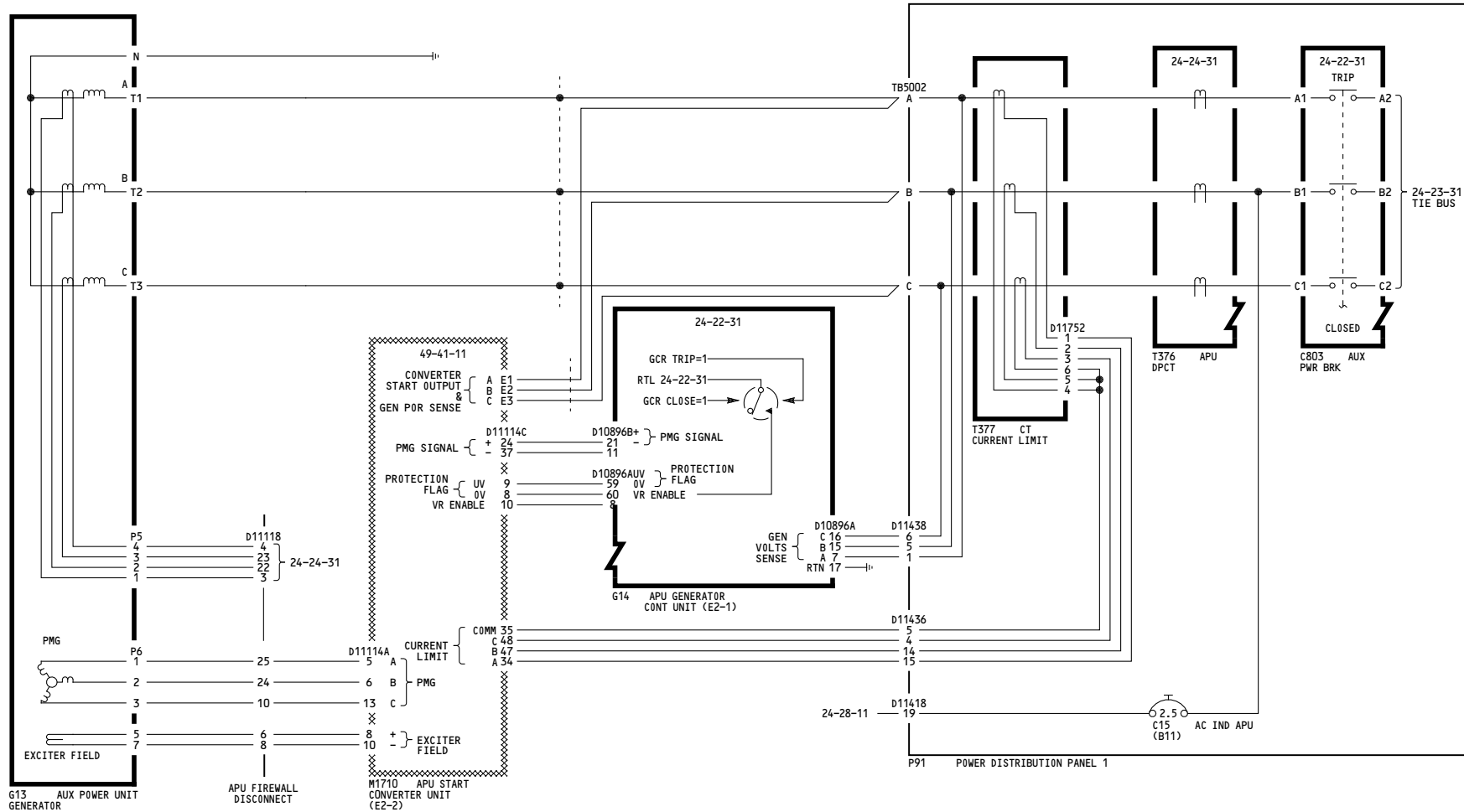


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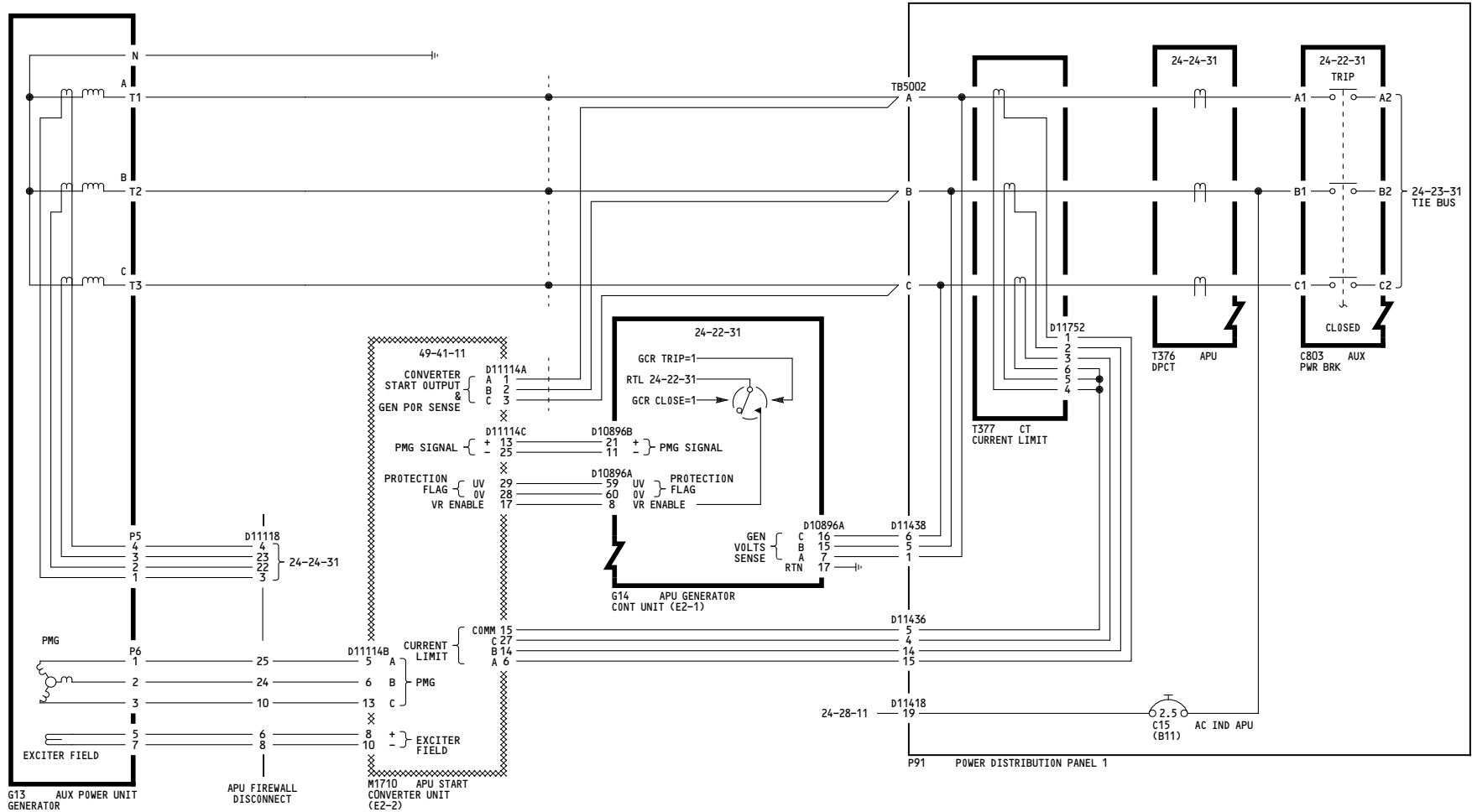
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YC001-YC004	GENERATOR POWER AND REGULATION - APU D280A203
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WIRING DIAGRAMS
24-21-31

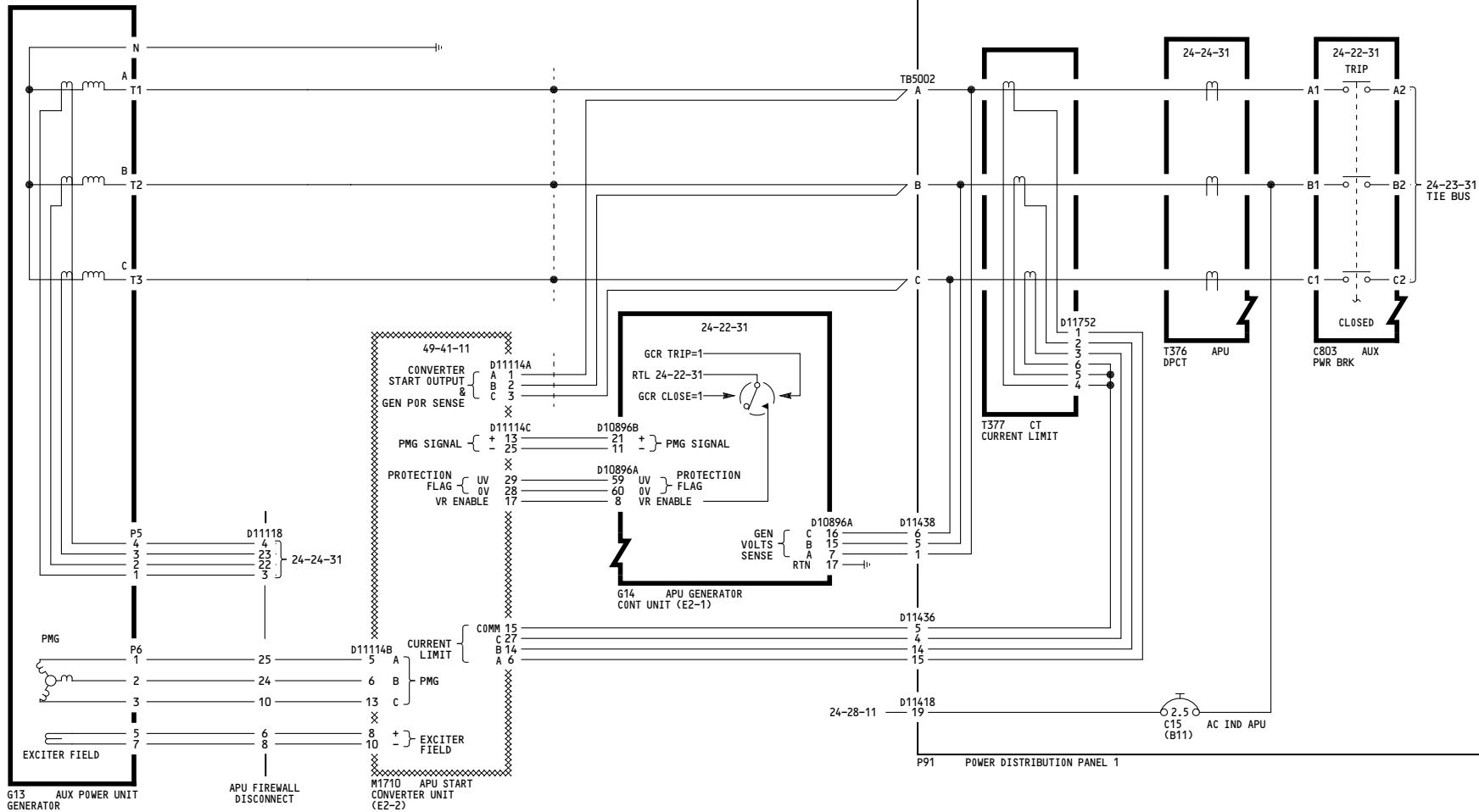


<p>YC005-YC030</p>	<p>GENERATOR POWER AND REGULATION - APU</p> <p>D280A203</p>
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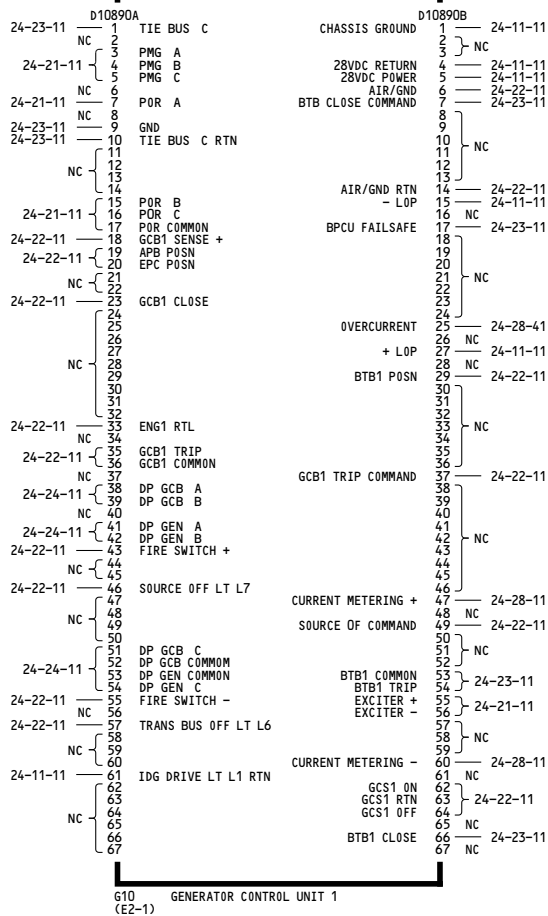
YC031-YM670

**GENERATOR POWER AND
REGULATION - APU**

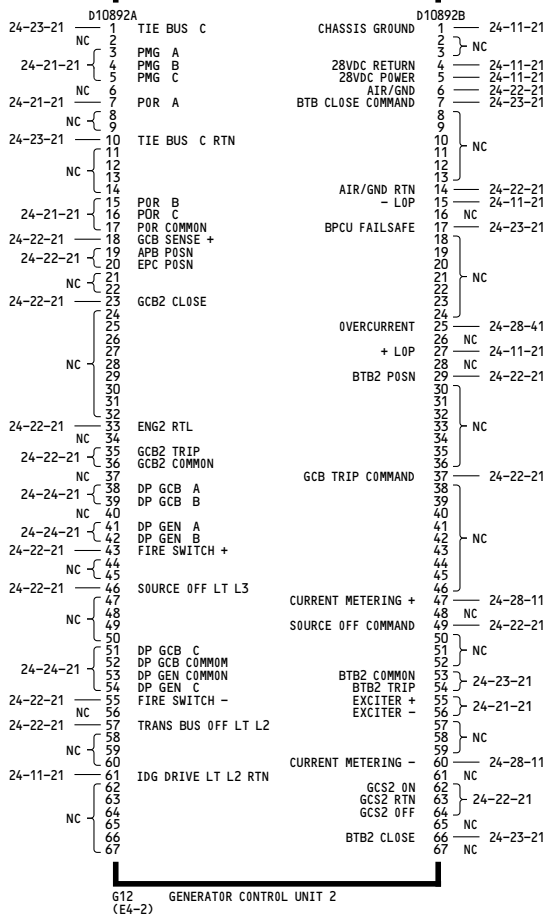
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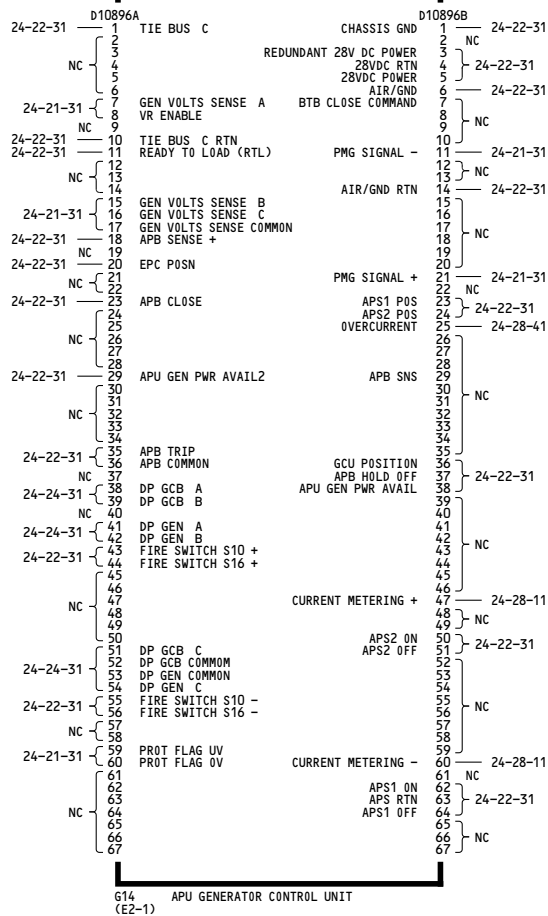
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G10 GENERATOR CONTROL UNIT 1 (E2-1)



G12 GENERATOR CONTROL UNIT 2 (E4-2)

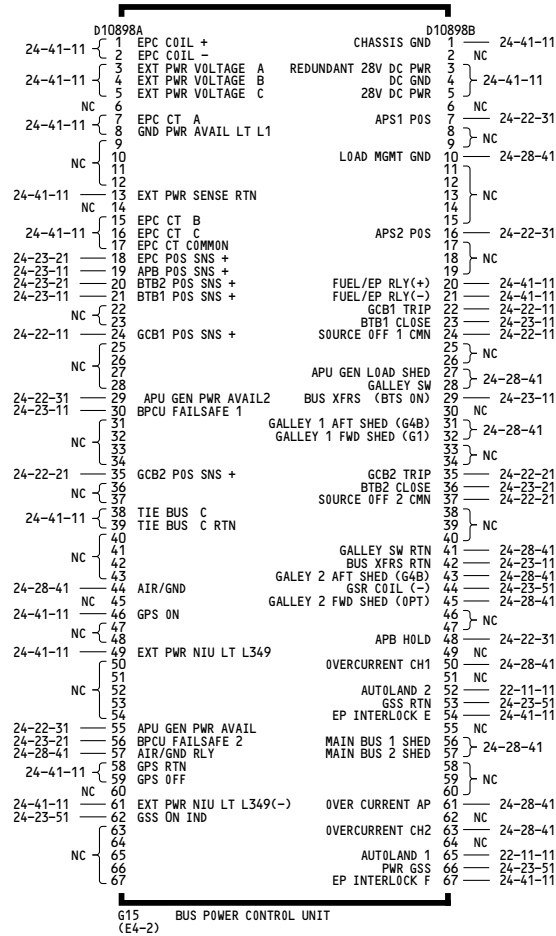


G14 APU GENERATOR CONTROL UNIT (E2-1)

ALL

GENERATOR CONTROL UNITS BLOCK (G10, G12, G14)

D280A203



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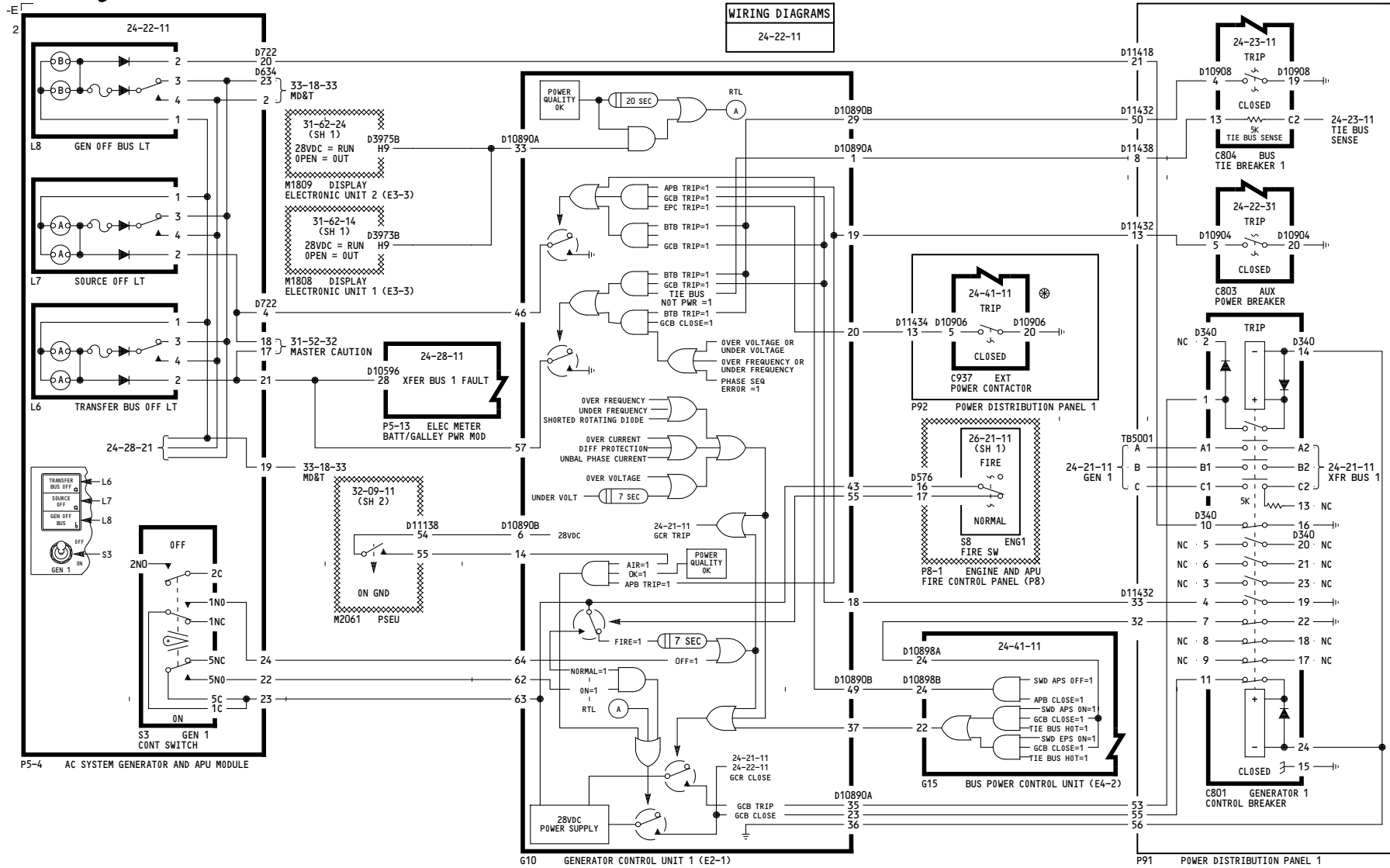
**BUS POWER CONTROL UNIT
BLOCK (G15)**

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ALL

GENERATOR CONTROL UNIT NO.1

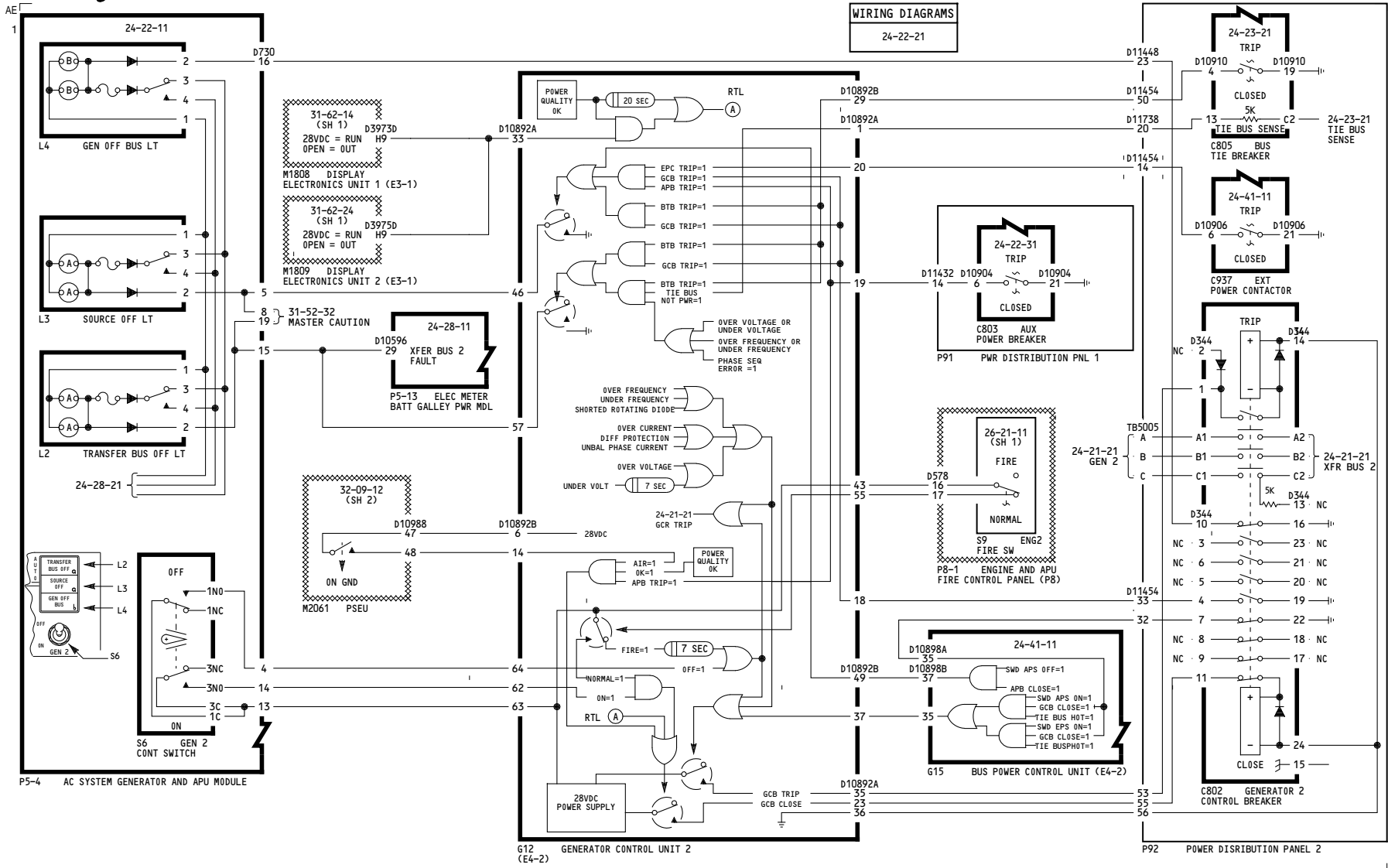
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24-22-21

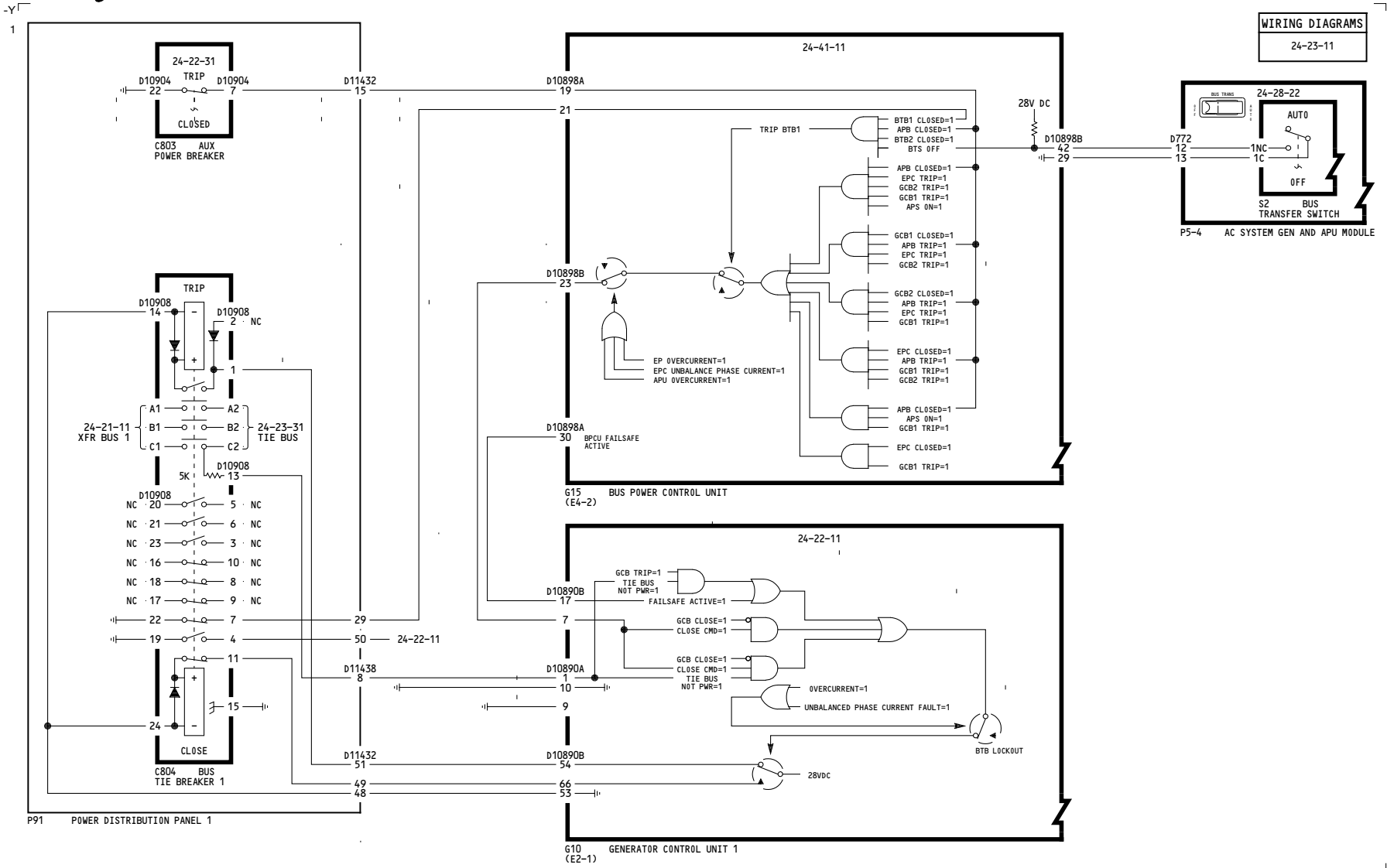


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GENERATOR CONTROL UNIT NO.2

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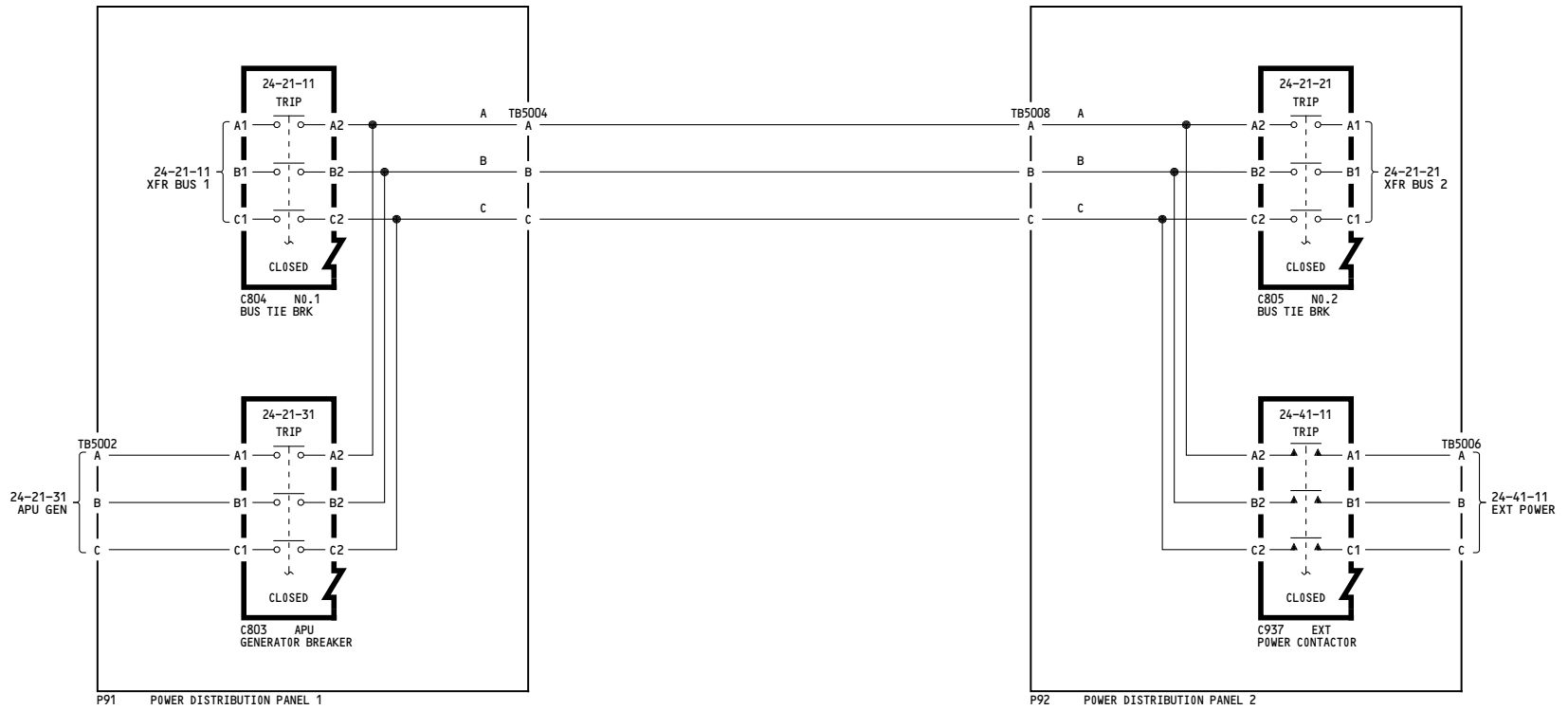
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WIRING DIAGRAMS
24-23-11

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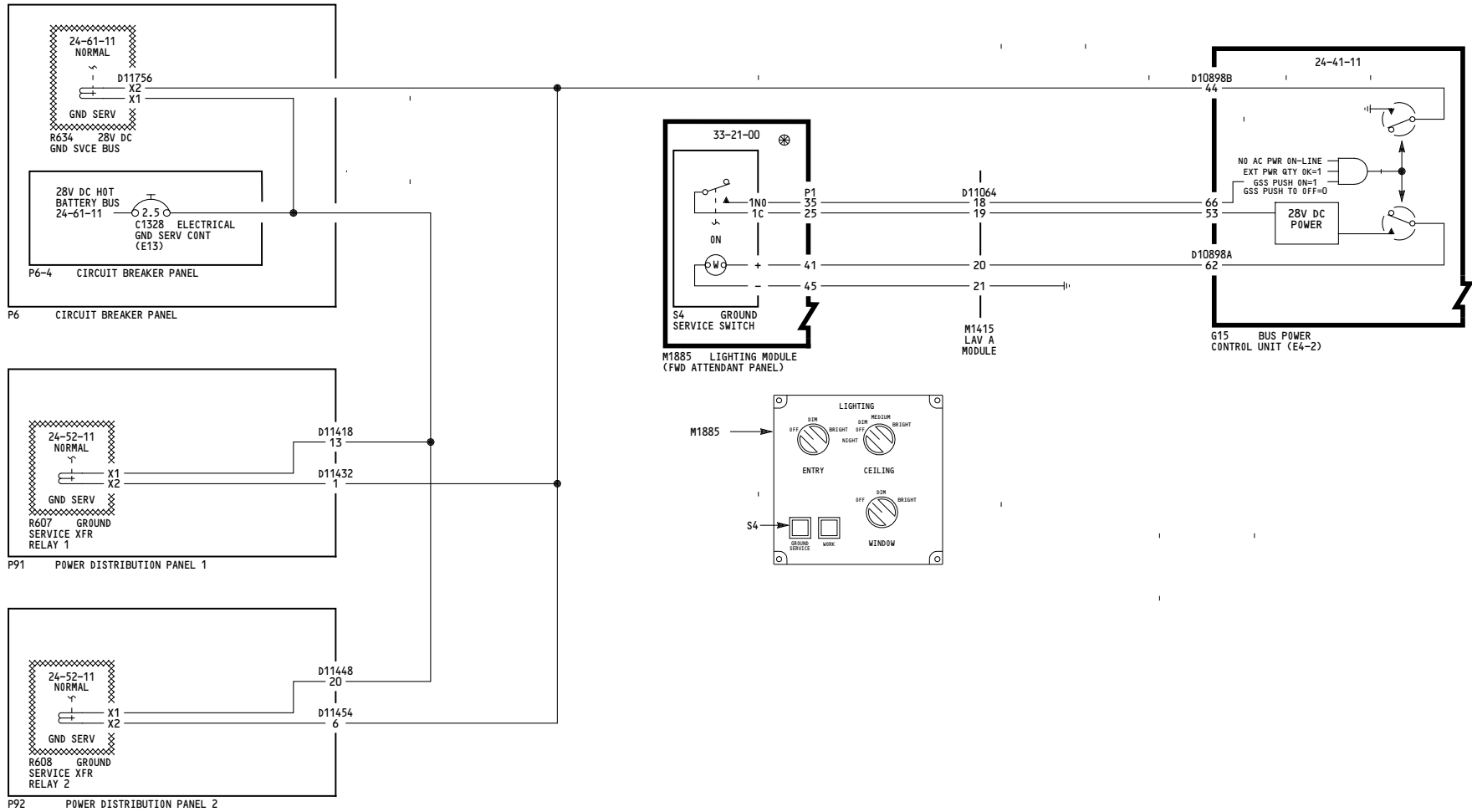
24-23-11



ALL	AC TIE BUS D280A203
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WIRING DIAGRAMS
24-23-51



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	D280A203

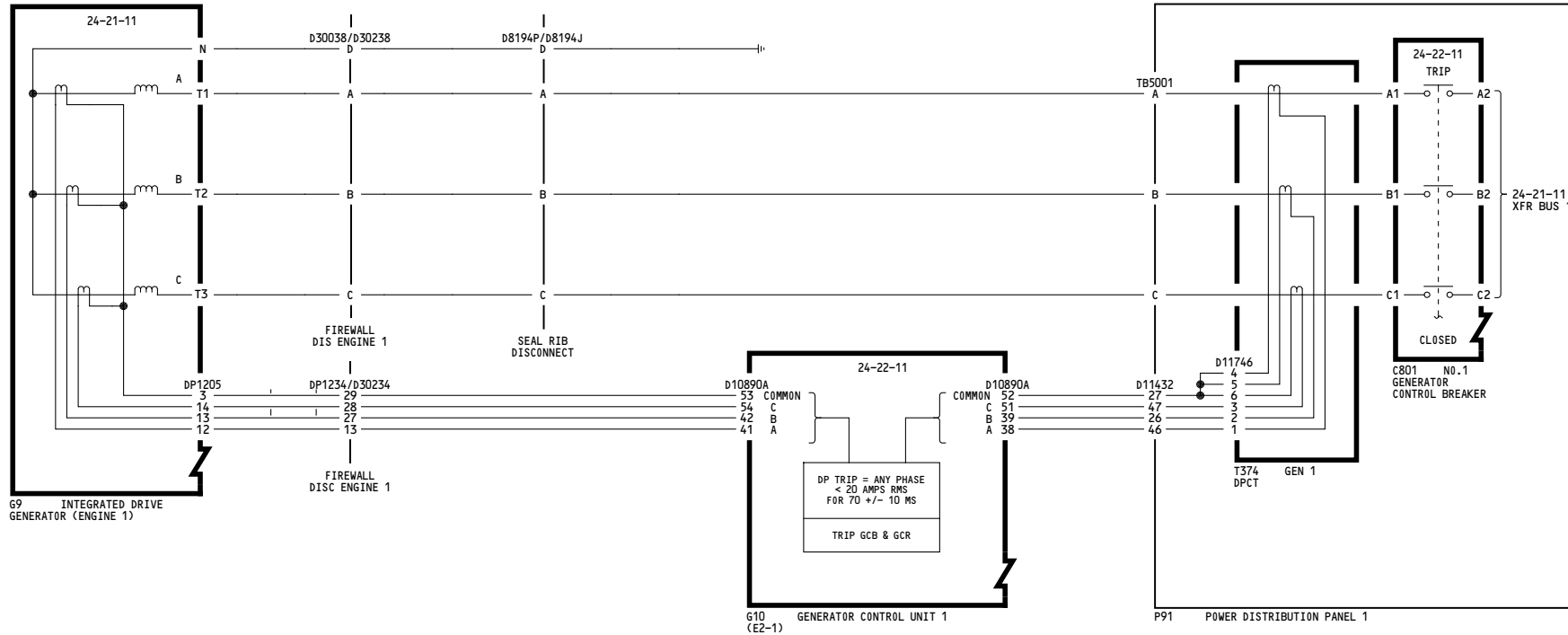
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24-24-11



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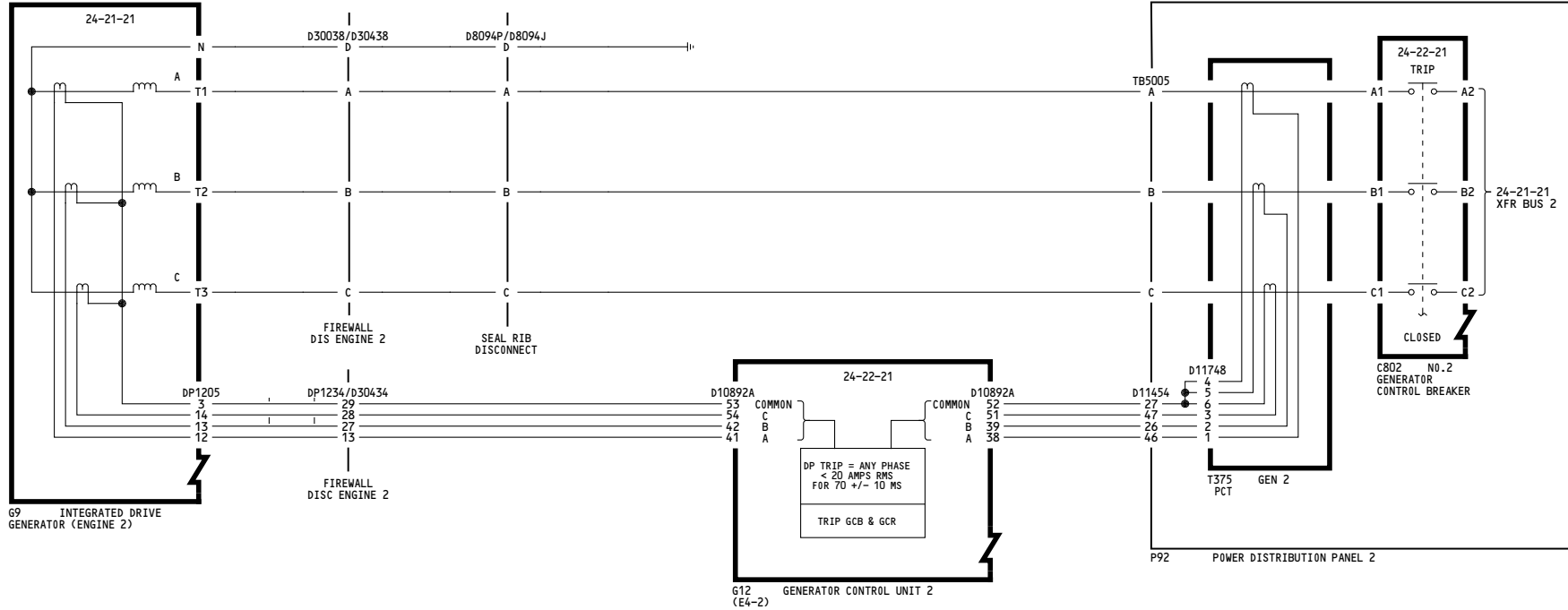
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WIRING DIAGRAMS
24-24-21



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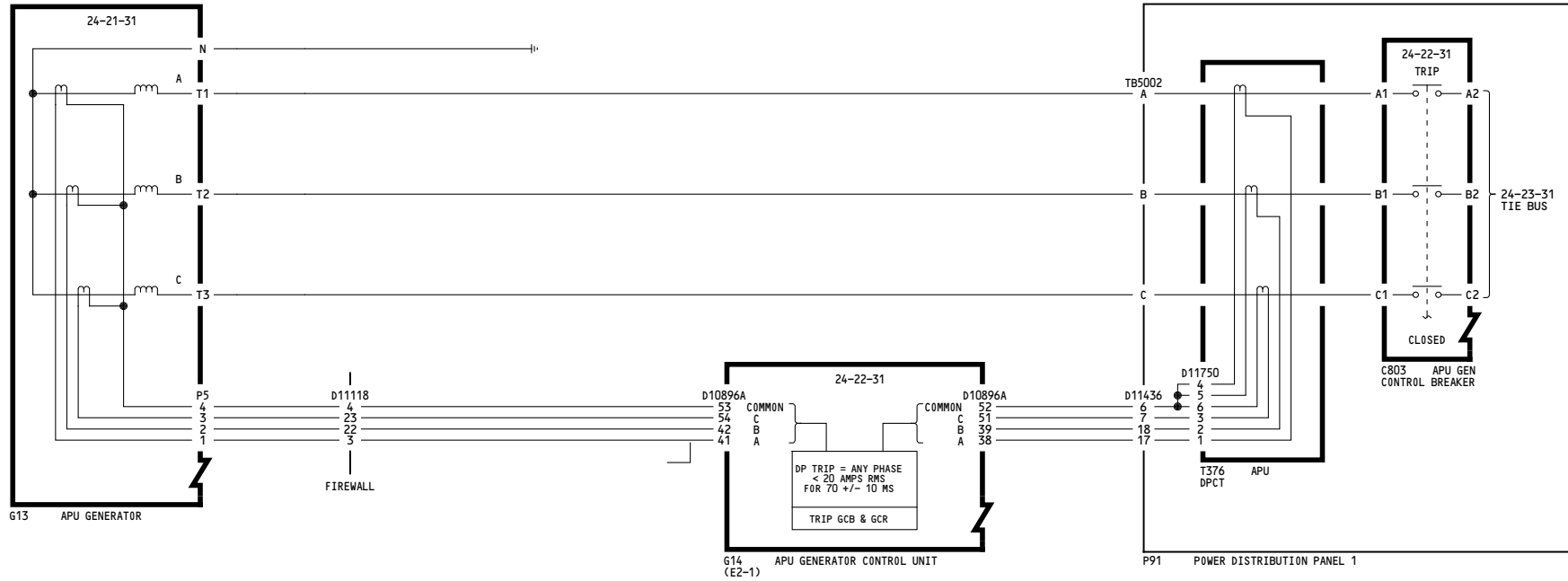
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WIRING DIAGRAMS
24-24-31

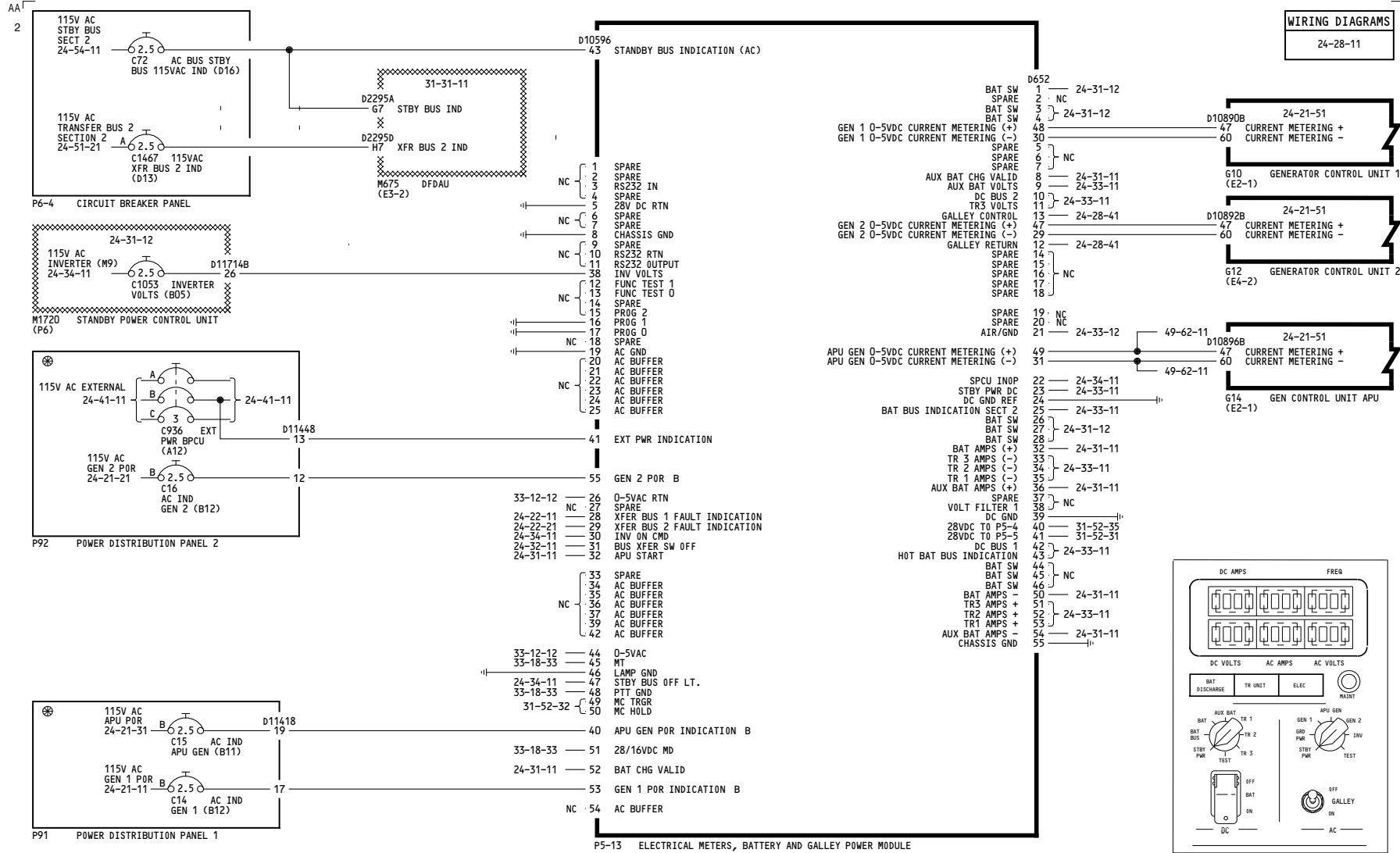


ALL	DIFFERENTIAL CURRENT PROTECTION APU GEN
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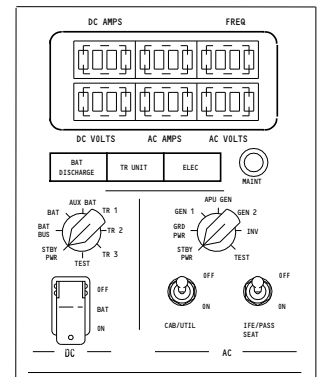
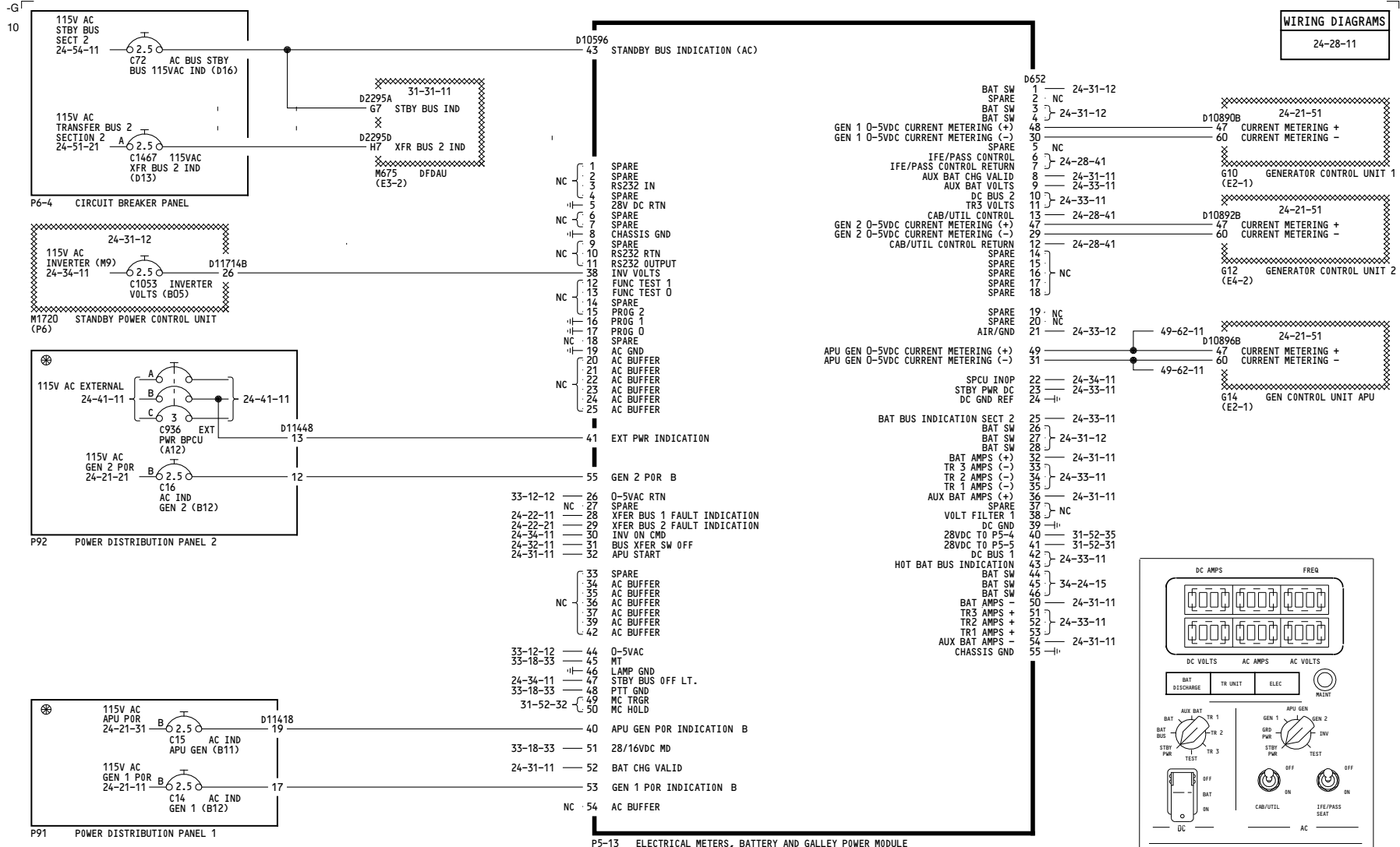
YC001-YC030

AC INDICATION P5-13

D280A203

24-28-11

WIRING DIAGRAMS
24-28-11



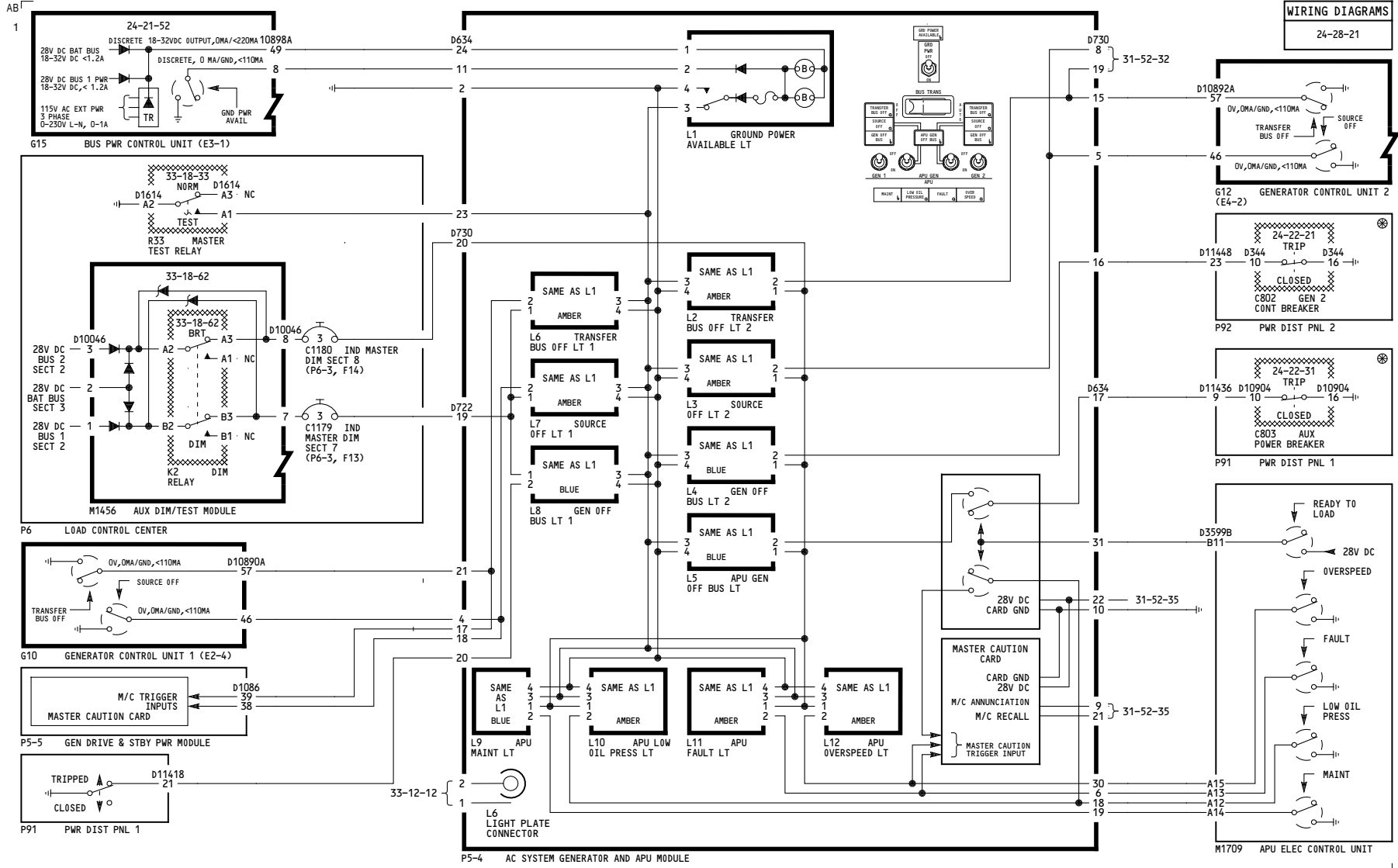
YK901-YM670

AC INDICATION P5-13

D280A203

24-28-11

WIRING DIAGRAMS
24-28-21



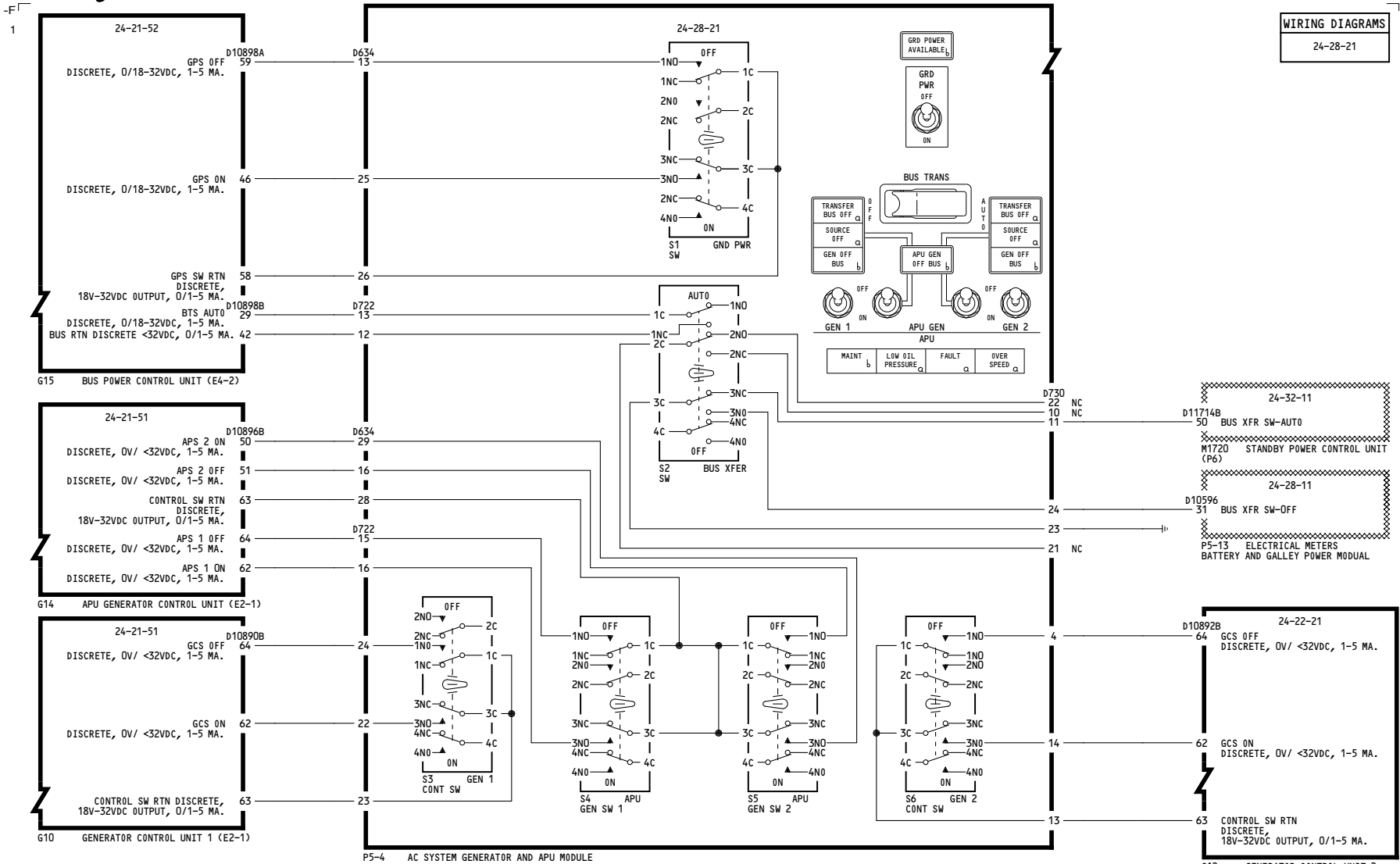
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AC SYSTEM GENERATOR & APU INDICATION P5-4

D280A203

24-28-21

WIRING DIAGRAMS
24-28-21



ALL

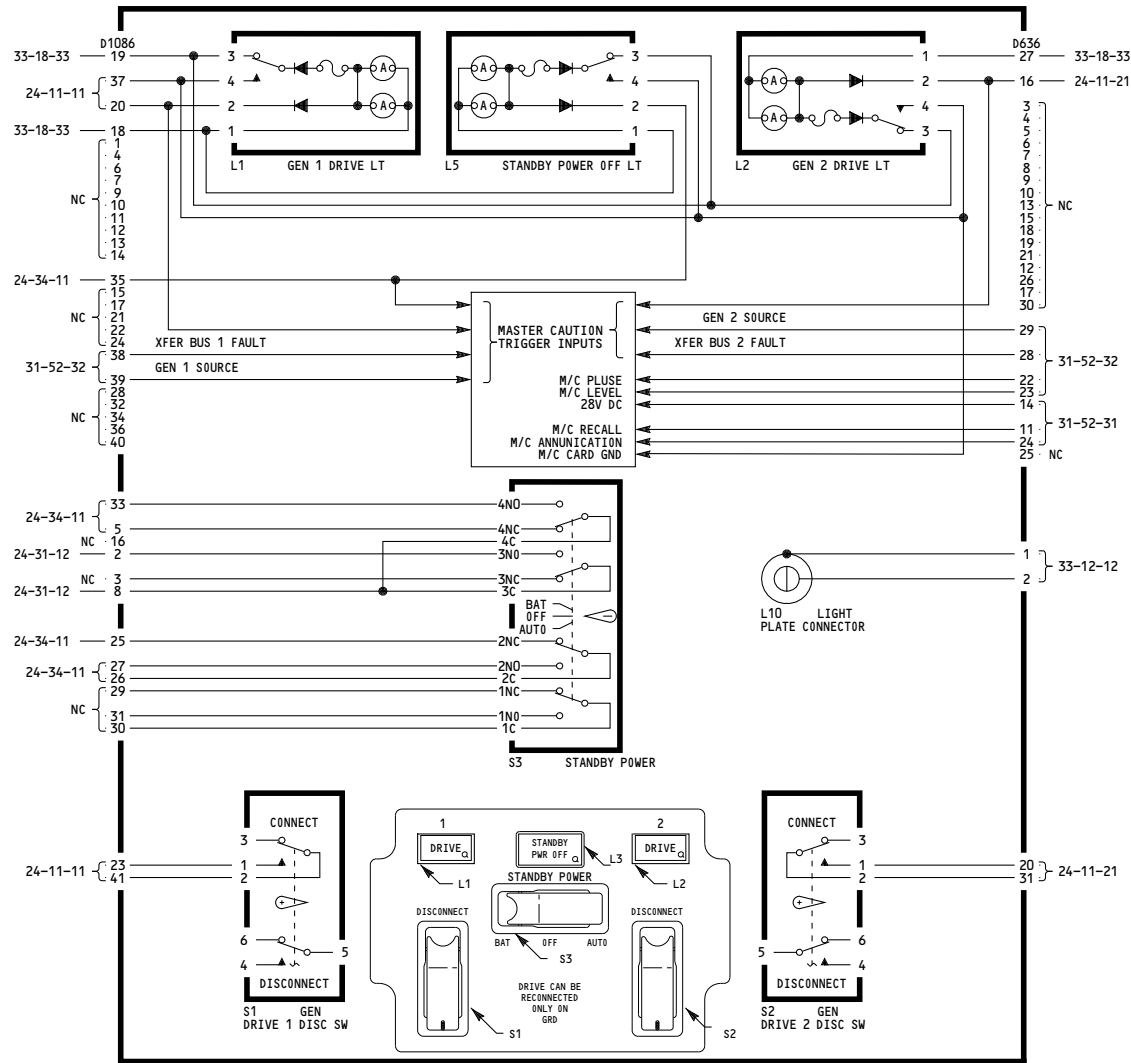
SWITCHING P5-4

D280A203

24-28-22

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WIRING DIAGRAMS
24-28-31



P5-5 GENERATOR DRIVE AND STANDBY POWER PANEL

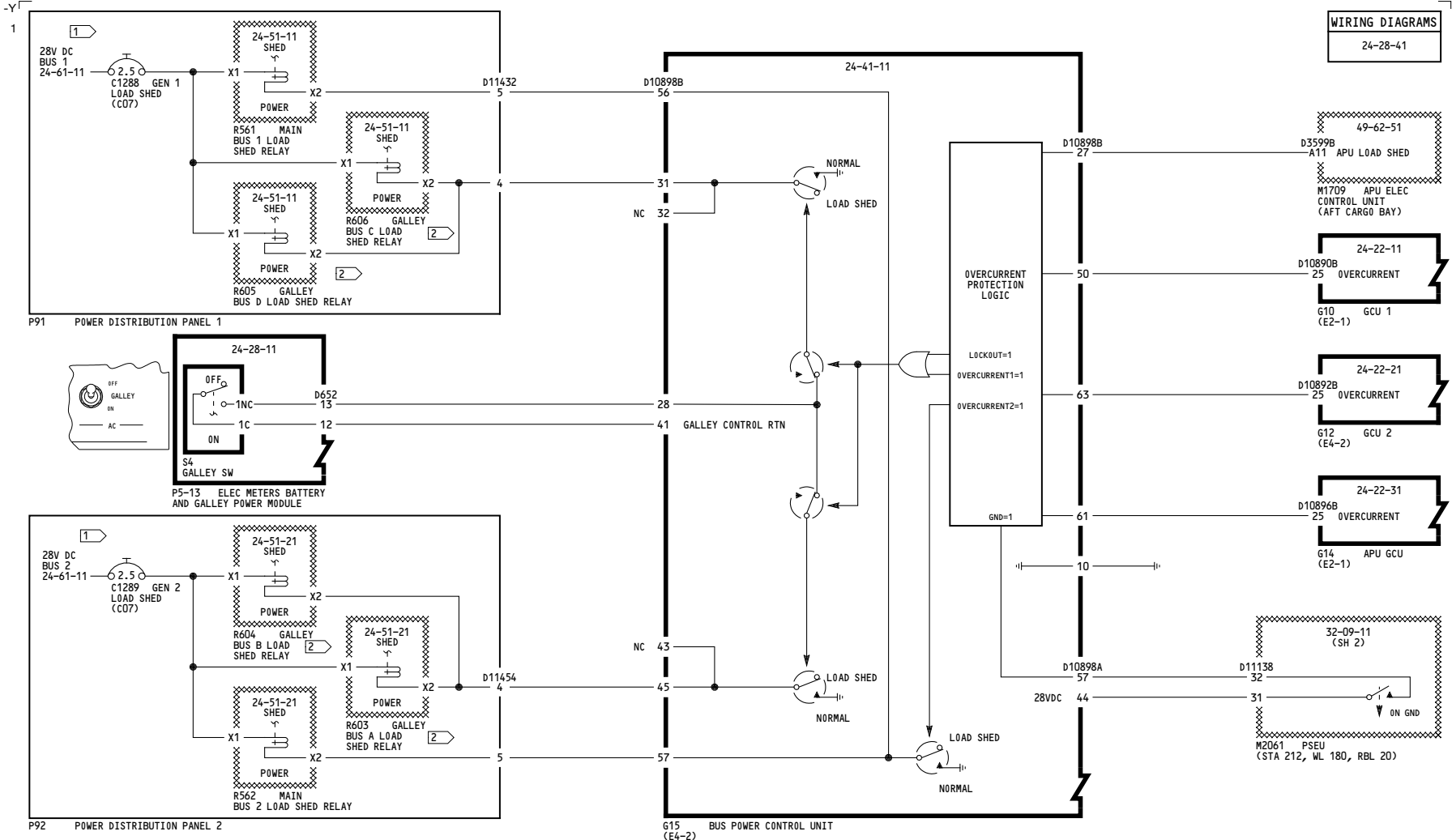
ALL	<p>GENERATOR DRIVE & STANDBY POWER SWITCHING INDICATIO N P5-5</p> <p>D280A203</p>
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24-28-31

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WIRING DIAGRAMS
24-28-41

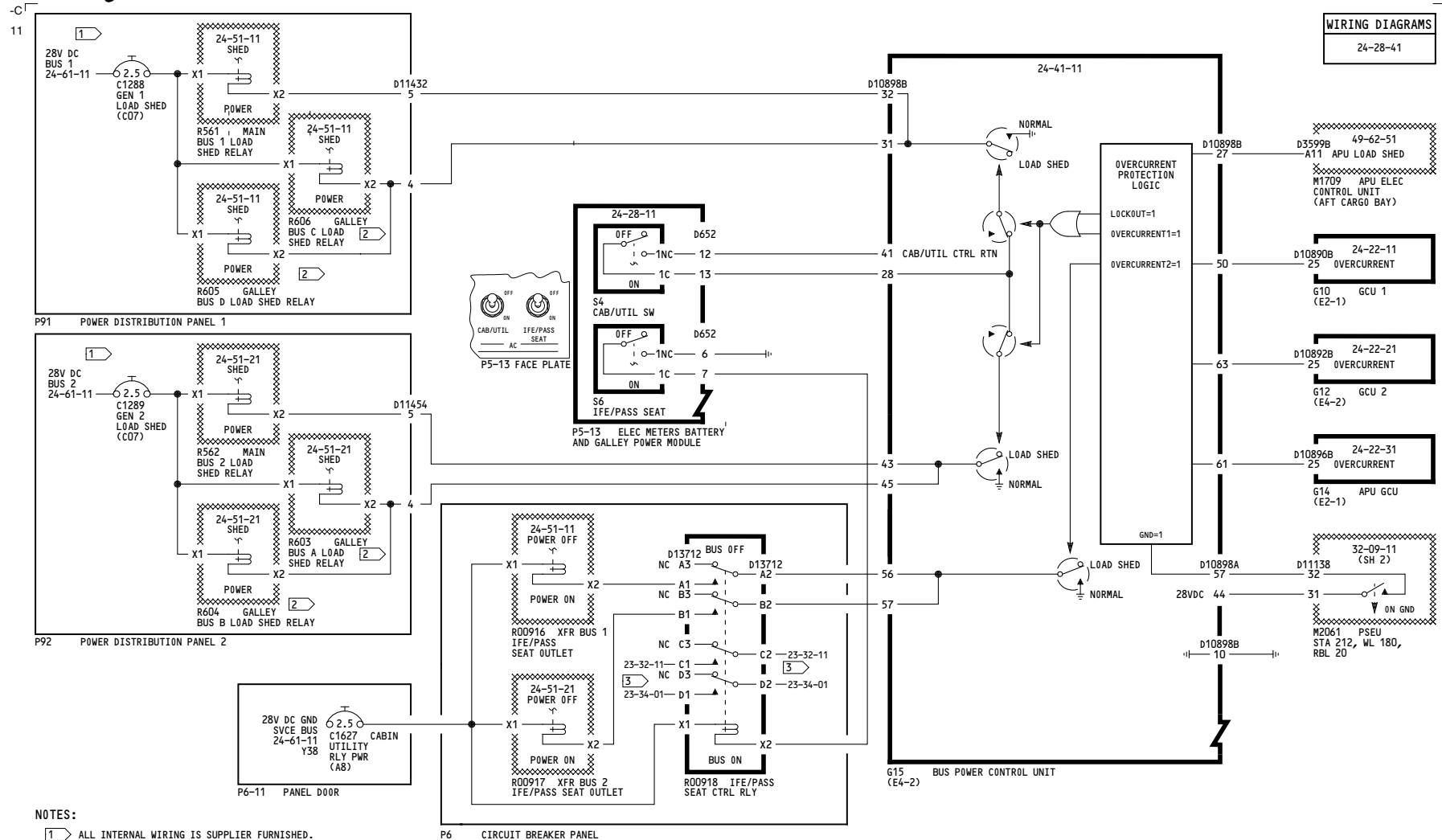


NOTES:
 1 ALL INTERNAL WIRING IS SUPPLIER FURNISHED.
 2 IF INSTALLED.

<p>YC001-YC030</p>	<p>AUTOMATIC LOAD SHED GALLEYS & MAIN BUSES</p> <p>D280A203</p>
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24-28-41

WIRING DIAGRAMS
24-28-41



- NOTES:
- 1 ALL INTERNAL WIRING IS SUPPLIER FURNISHED.
 - 2 IF INSTALLED
 - 3 AUDIO OR VIDEO DC CIRCUIT BREAKER IF INSTALLED

YC031-YL430

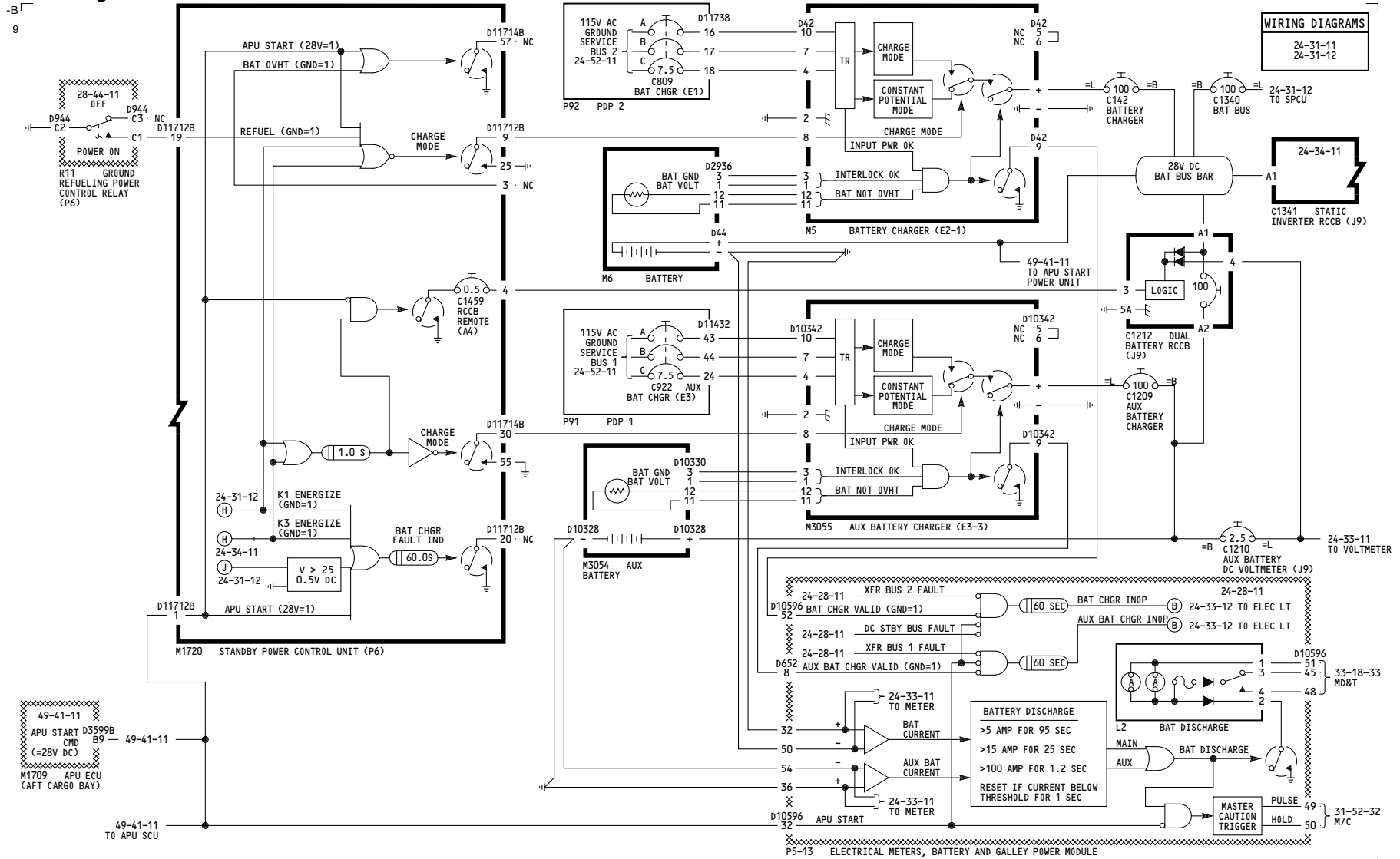
AUTOMATIC LOAD SHED GALLEYS & MAIN BUSES

D280A203

24-28-41

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WIRING DIAGRAMS
24-31-11
24-31-12

24-34-11
C1341 STATIC INVERTER RCCB (J9)

D10596
33-18-33 MD&T

D10596
31-52-32 M/C

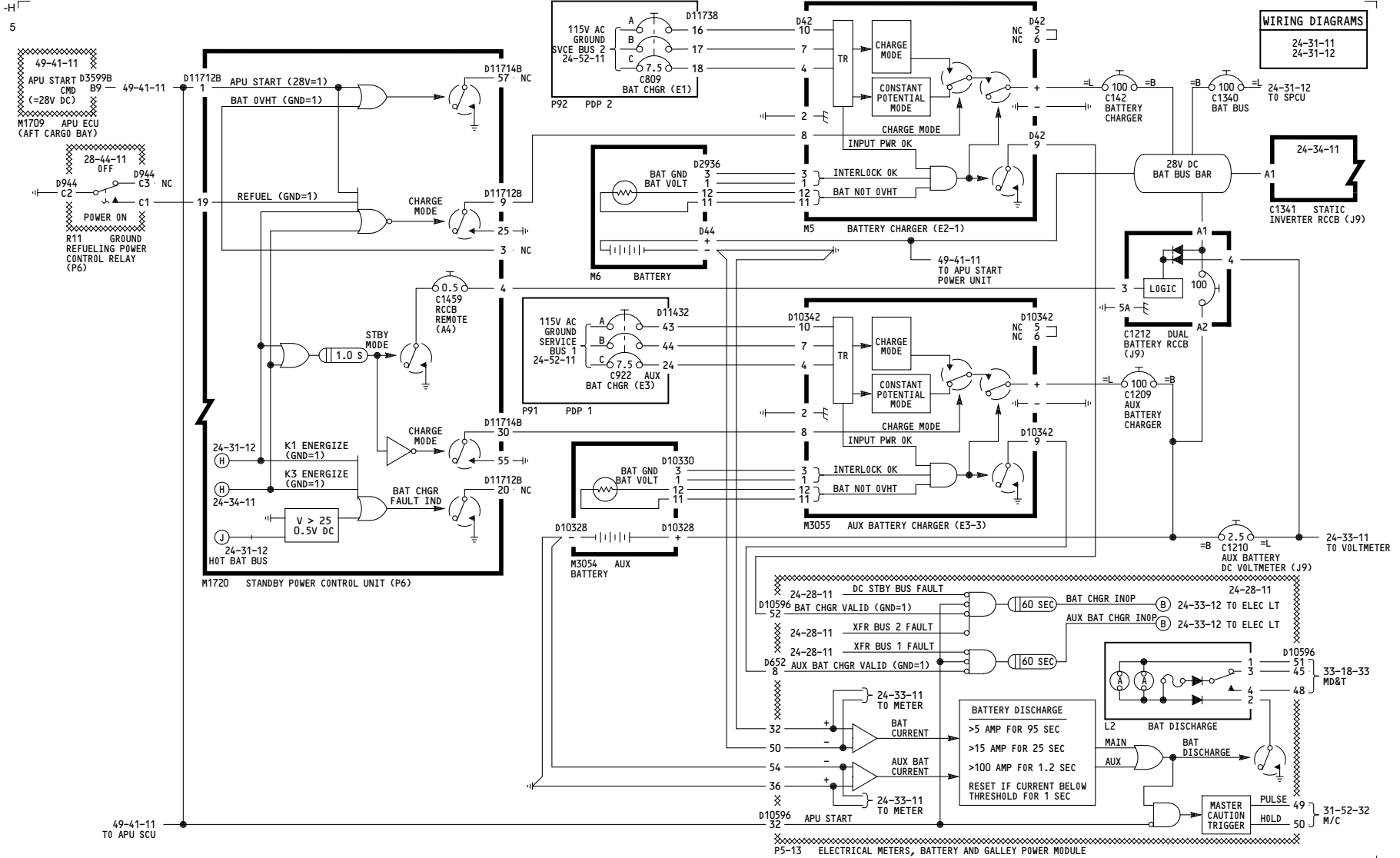
P5-13 ELECTRICAL METERS, BATTERY AND GALLEY POWER MODULE

YC001-YC002, YC008-YC026

BATTERY AND BATTERY CHARGER

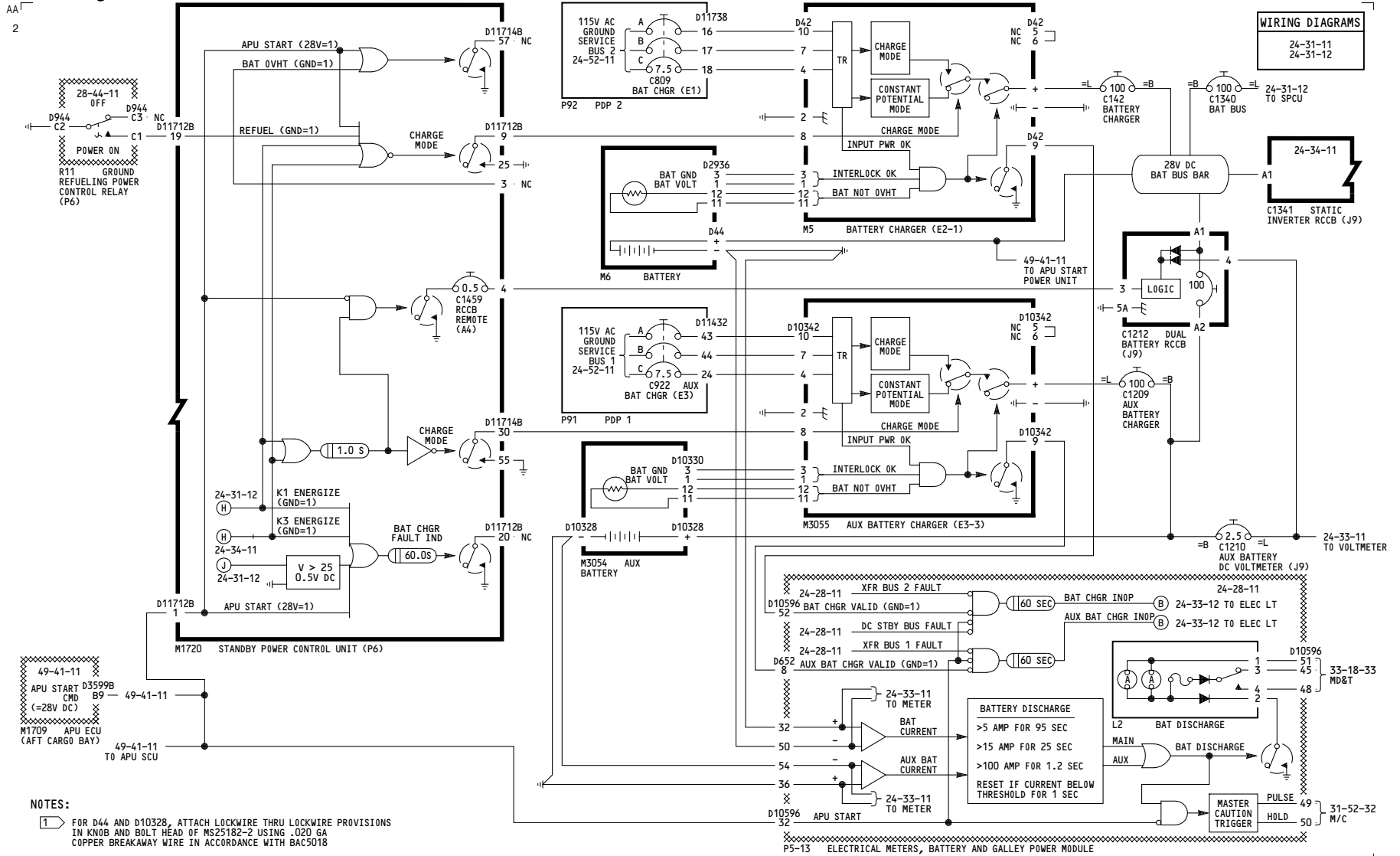
D280A203

24-31-11



YC003-YC007	BATTERY AND BATTERY CHARGER D280A203
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24-31-11



WIRING DIAGRAMS
24-31-11
24-31-12

24-34-11
C1341 STATIC INVERTER RCCB (J9)

D10596
33-18-33
MD&T

31-52-32
M/C

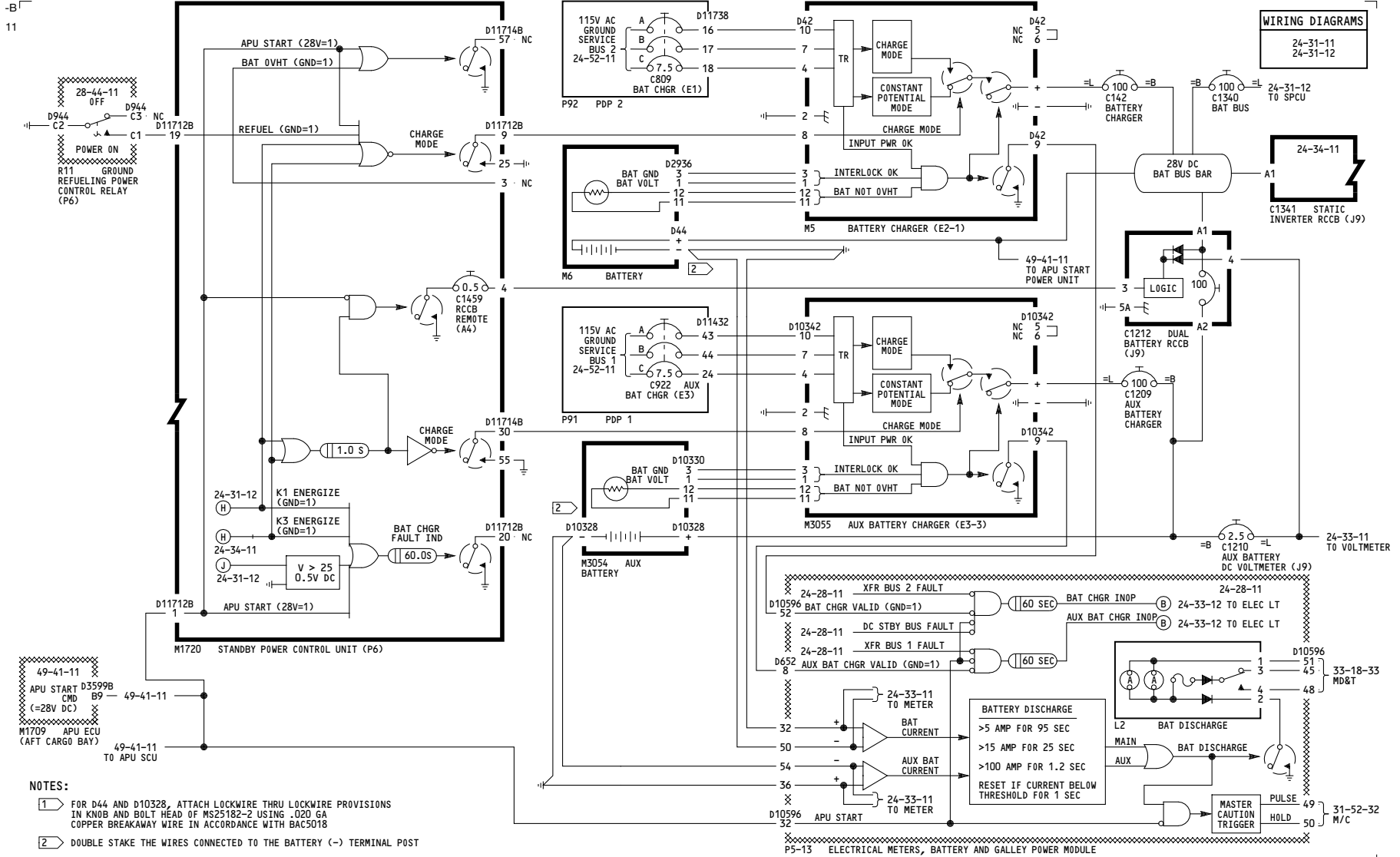
NOTES:
1 FOR D44 AND D10328, ATTACH LOCKWIRE THRU LOCKWIRE PROVISIONS IN KNOB AND BOLT HEAD OF MS25182-2 USING .020 GA COPPER BREAKAWAY WIRE IN ACCORDANCE WITH BAC5018

YC028-YK910, YK918, YL421-YL425, YM643-YM646	BATTERY AND BATTERY CHARGER
	D280A203

24-31-11

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YK911-YK917, YK919-YL401, YL426-YL430, YM647-YM670

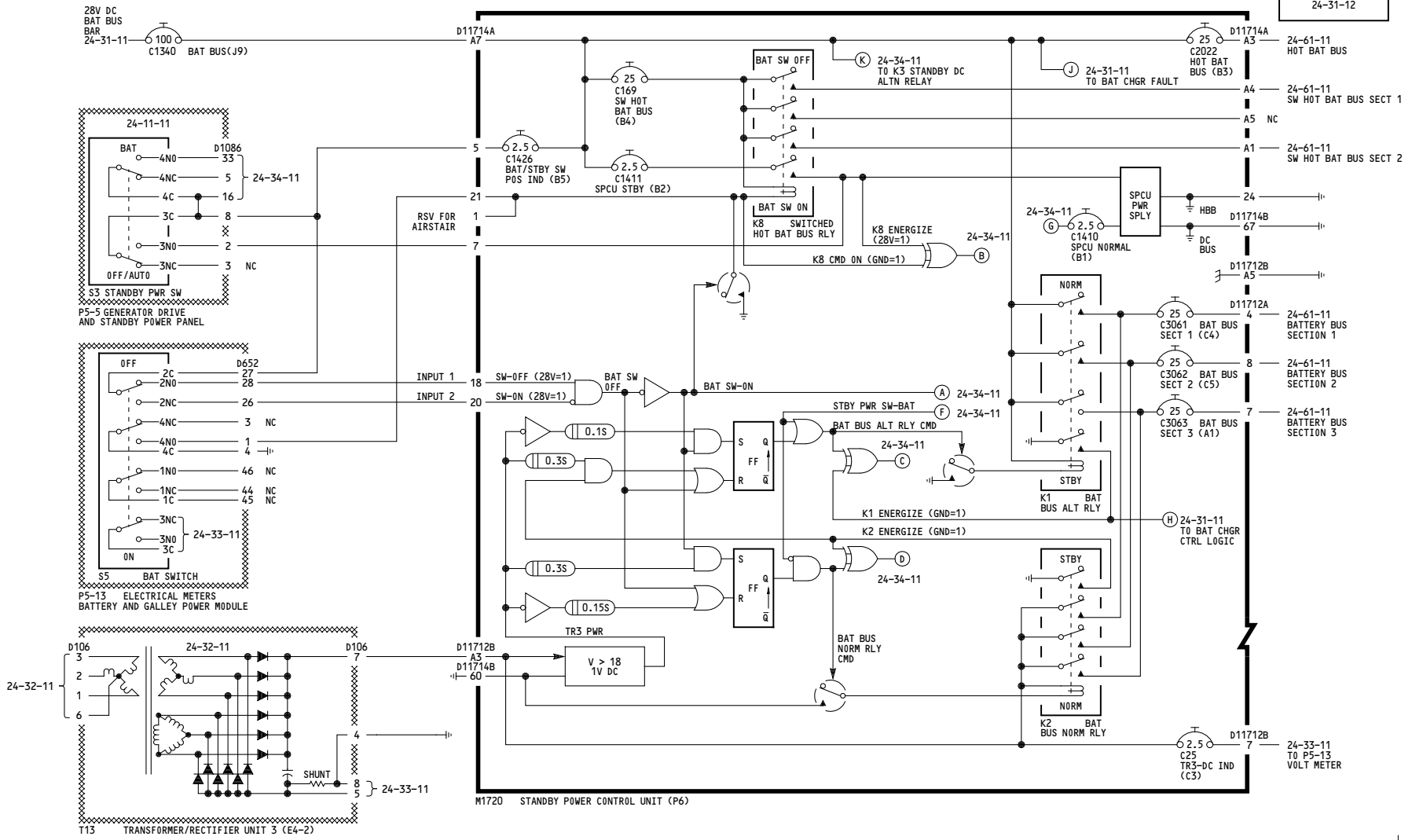
BATTERY AND BATTERY CHARGER

D280A203

24-31-11

AM
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WIRING DIAGRAMS
24-31-12

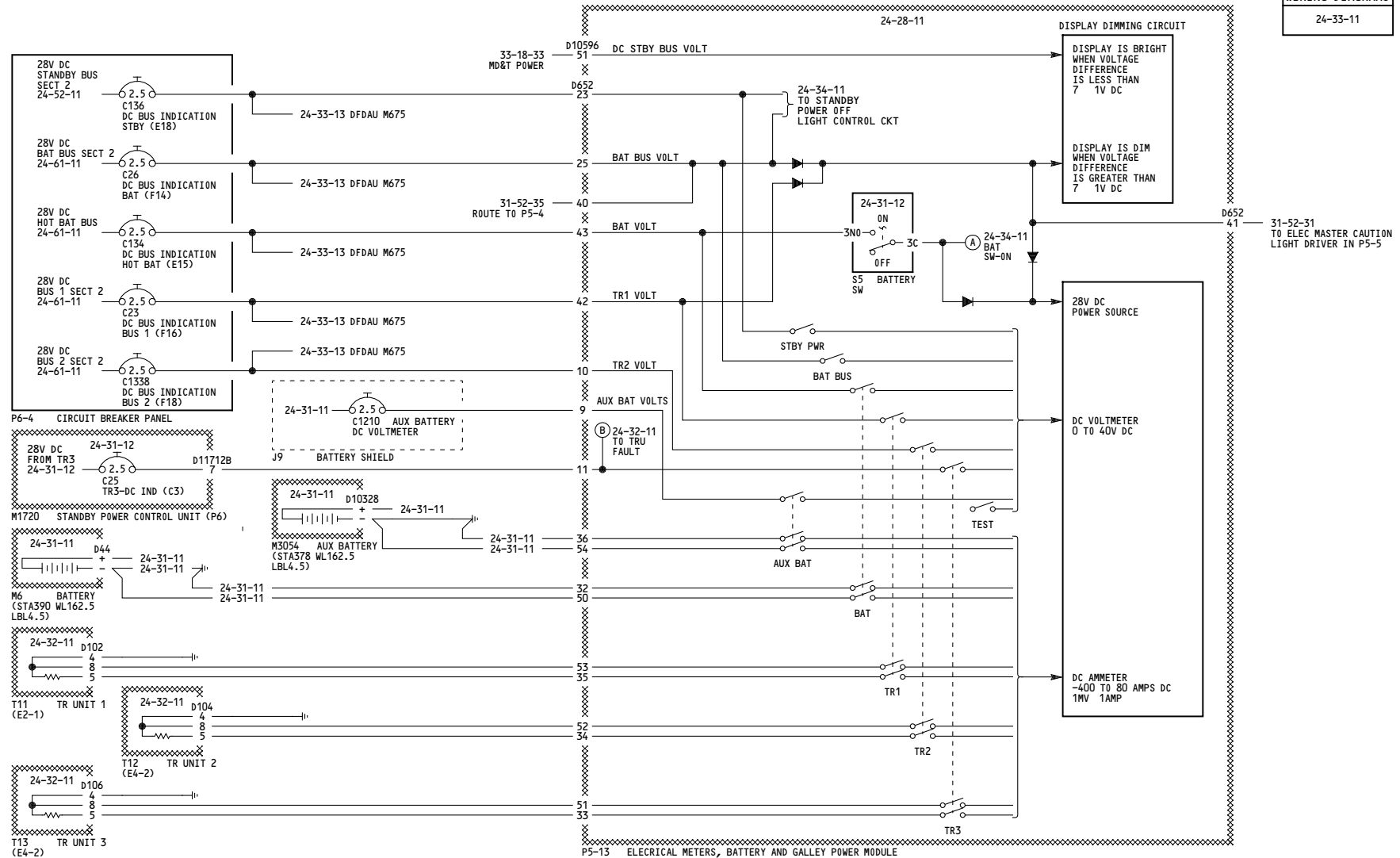


YC001-YC050	BATTERY BUS
	D280A203

24-31-12

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2

WIRING DIAGRAMS
24-33-11



ALL

DC VOLTAGE AND CURRENT INDICATIONS

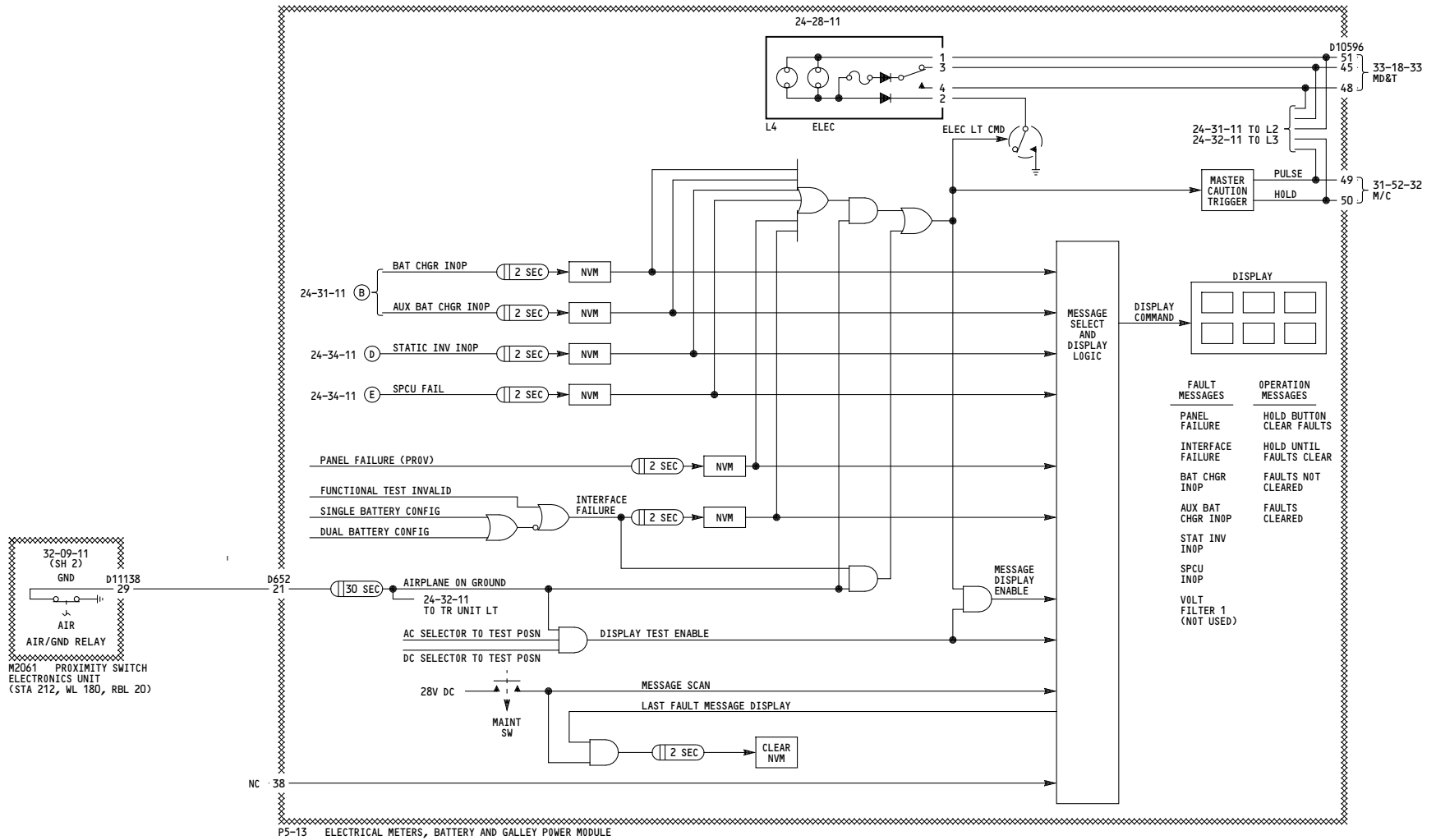
D280A203

24-33-11

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-T-
1



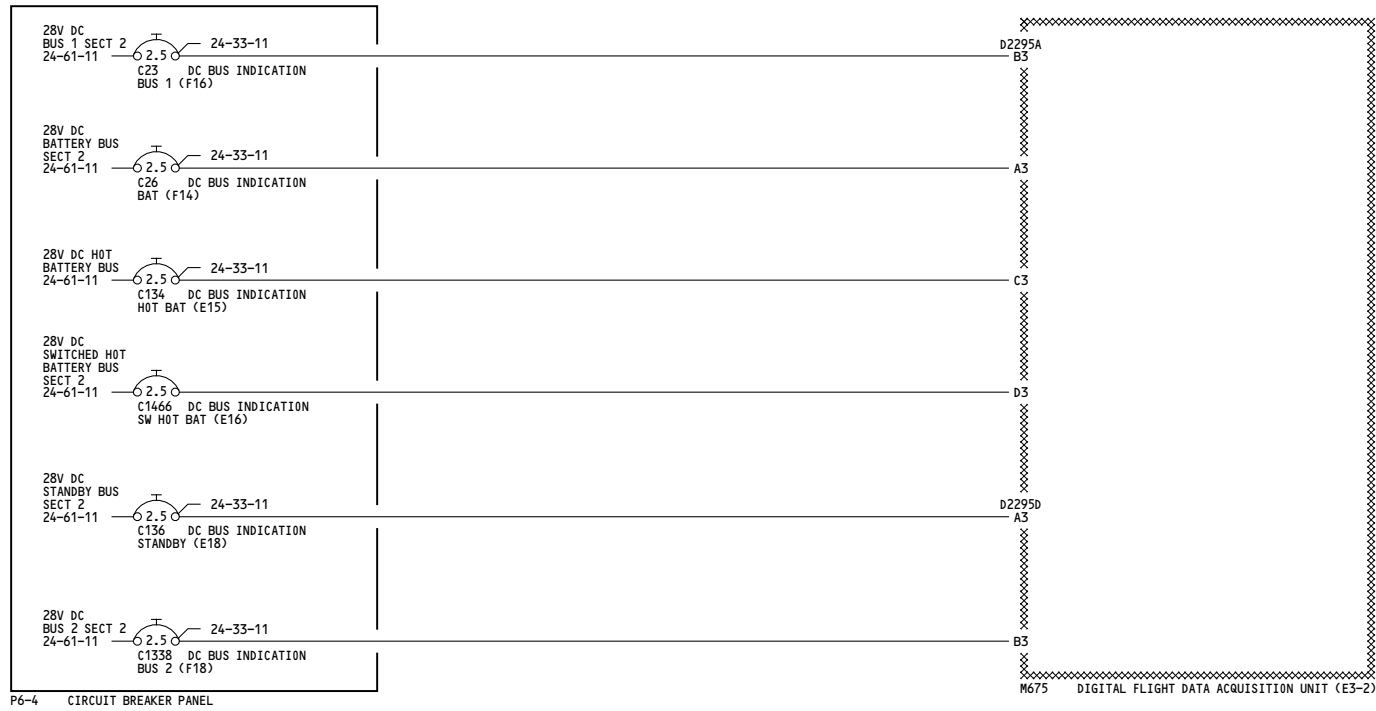
ALL	<p>ELEC LIGHT AND ALPHANUMERIC DISPLAY</p> <p>D280A203</p>
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24-33-12

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Aug 10/2009

-E
1



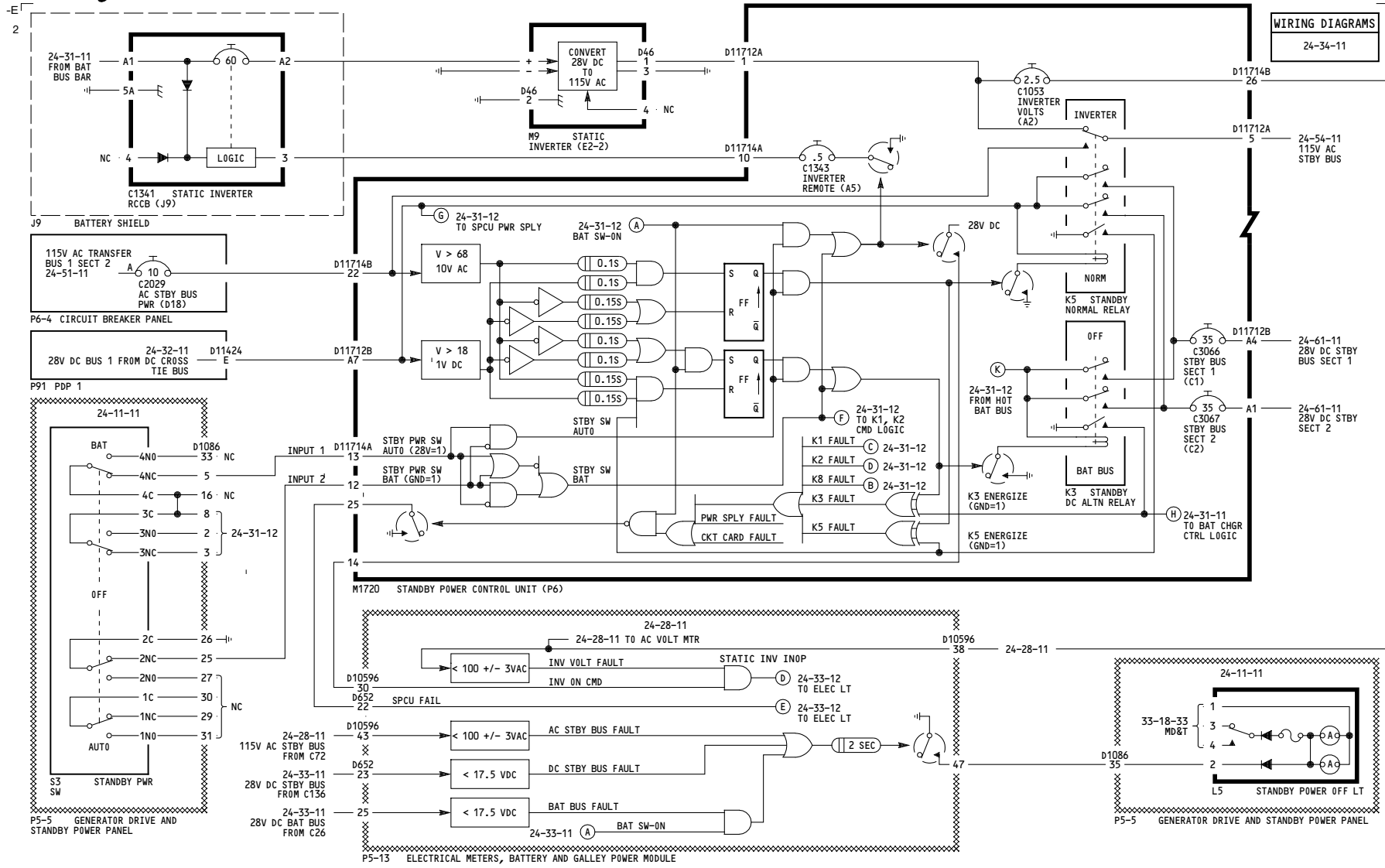
ALL	DC BUS INDICATION DFDAU
	D280A203

24-33-13

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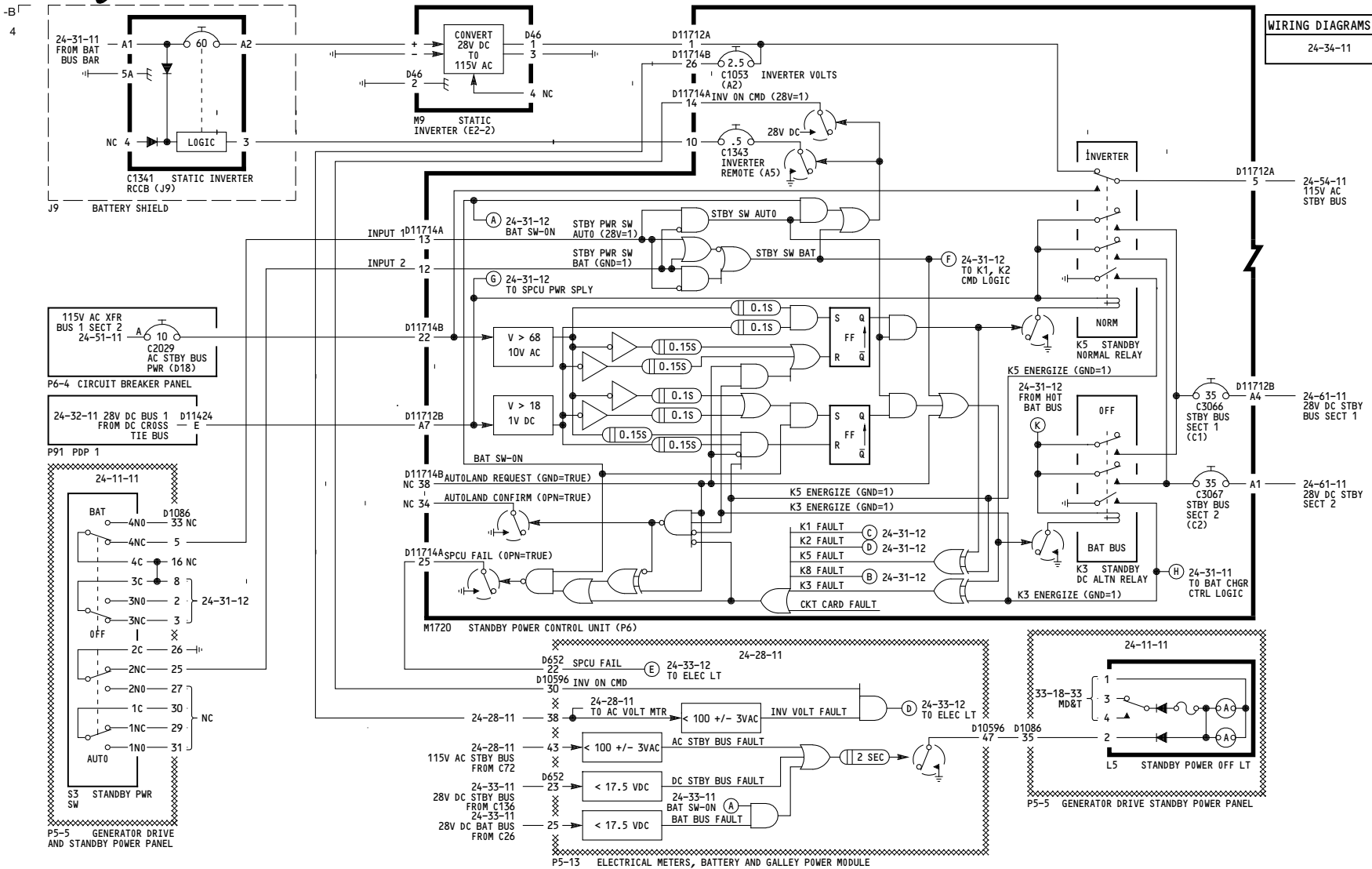
WIRING DIAGRAMS
24-34-11



YC001-YC030	STANDBY POWER
	D280A203

24-34-11

WIRING DIAGRAMS
24-34-11

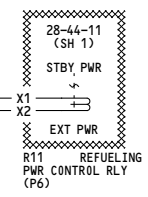
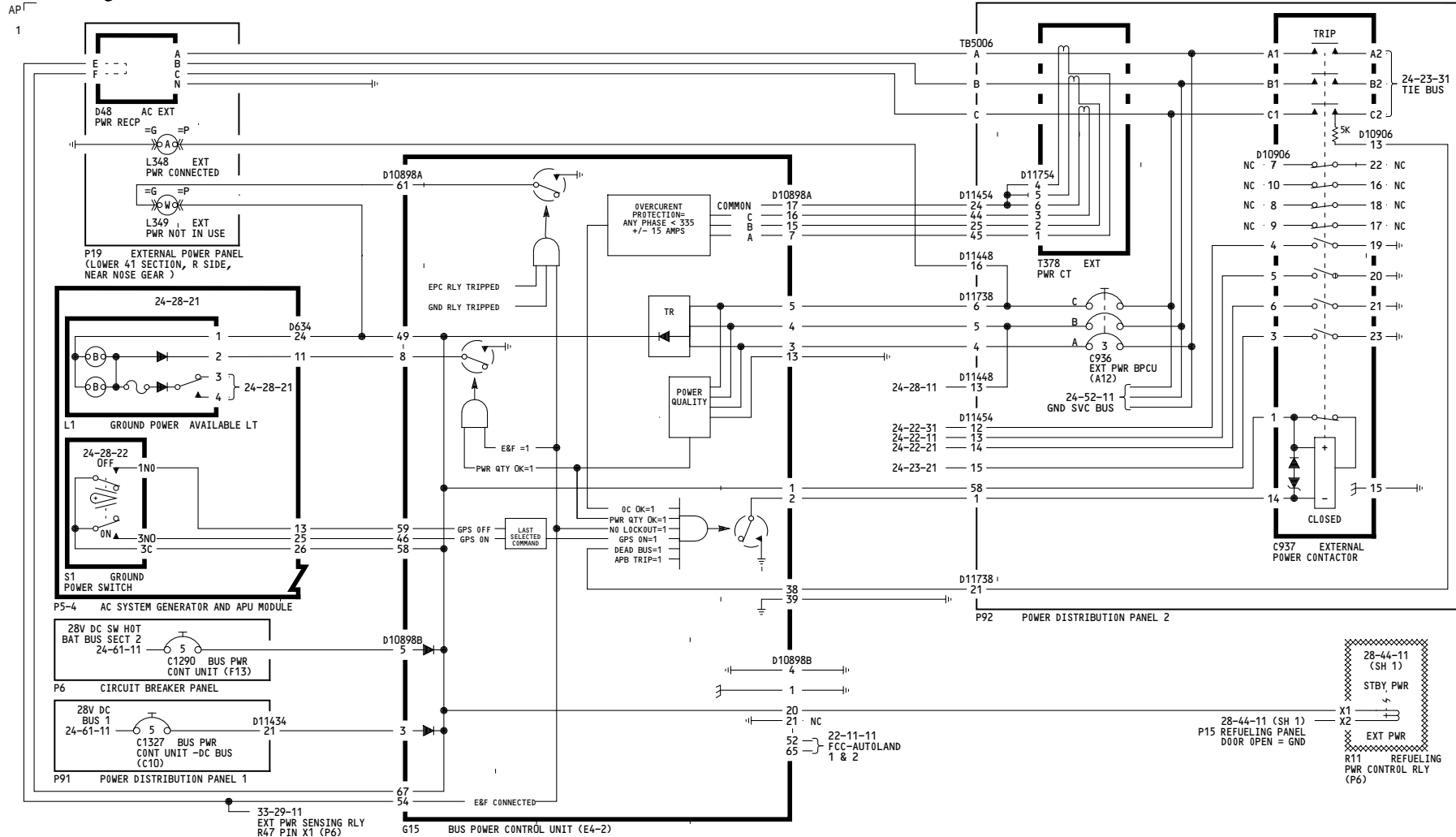


YC031-YM670

STANDBY POWER

D280A203

24-34-11

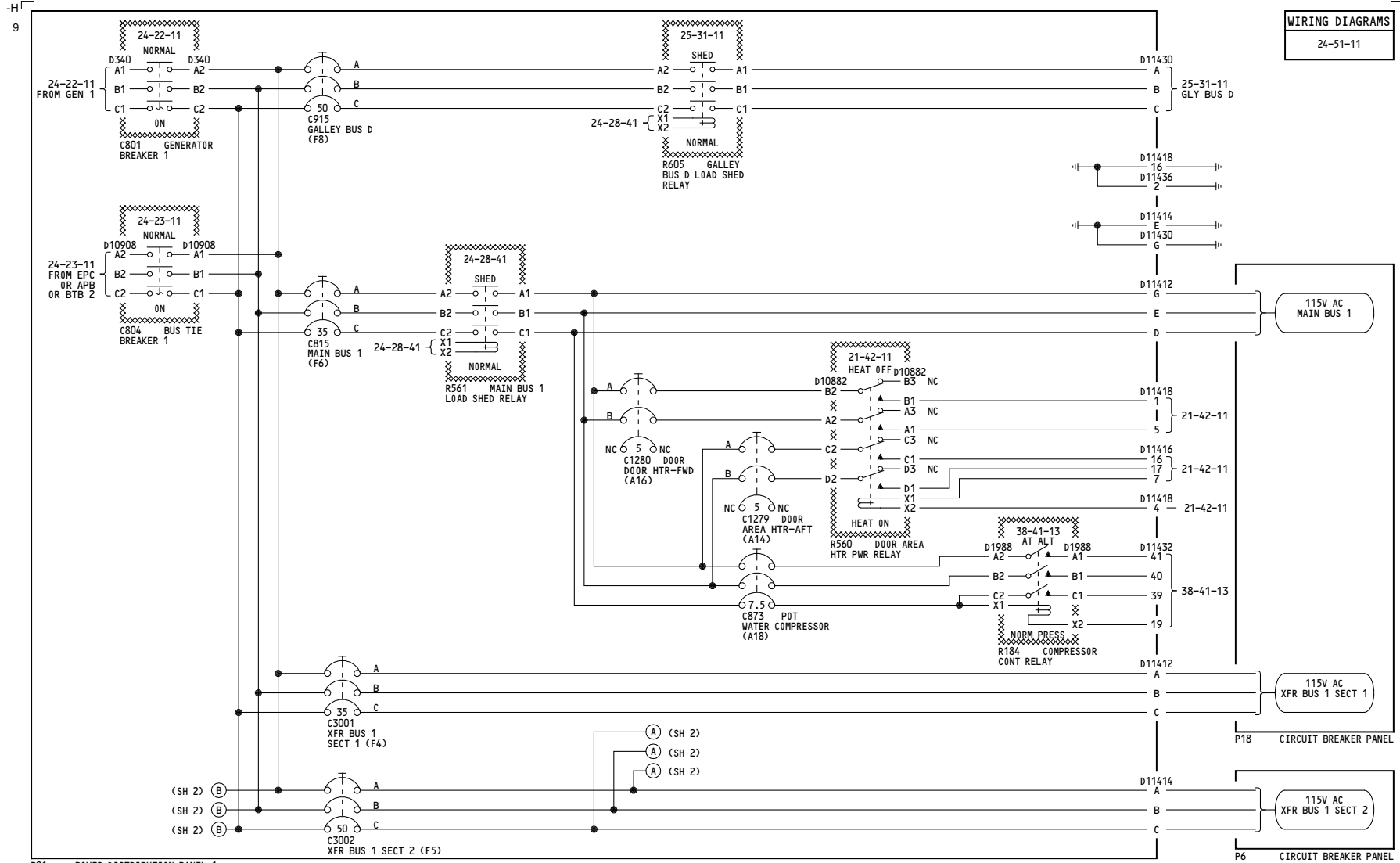


WIRING DIAGRAMS
24-41-11

ALL	EXTERNAL POWER
	D280A203

24-41-11

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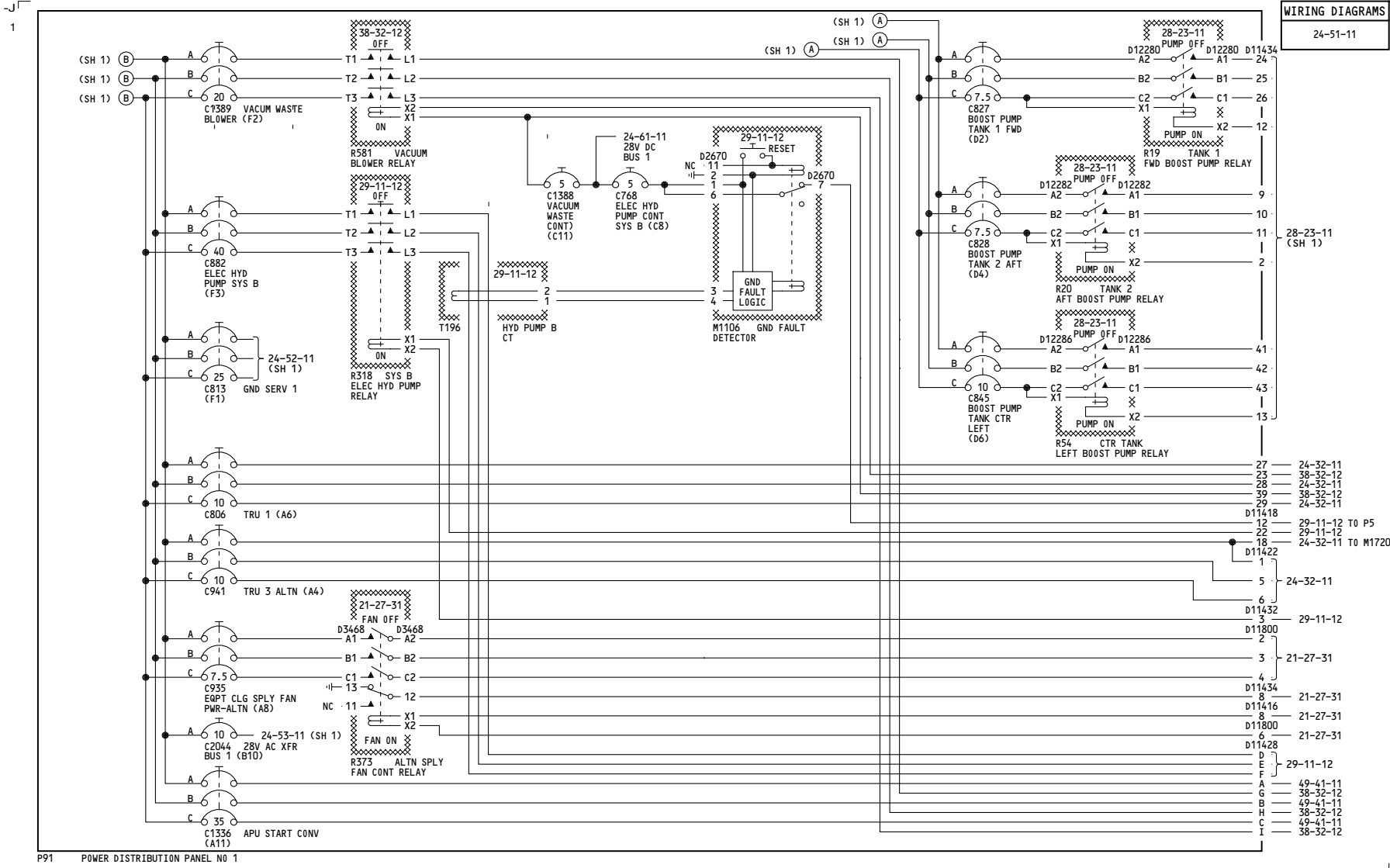


WIRING DIAGRAMS
24-51-11

YC001-YC030	115V AC TRANSFER BUS 1
D280A203	

24-51-11

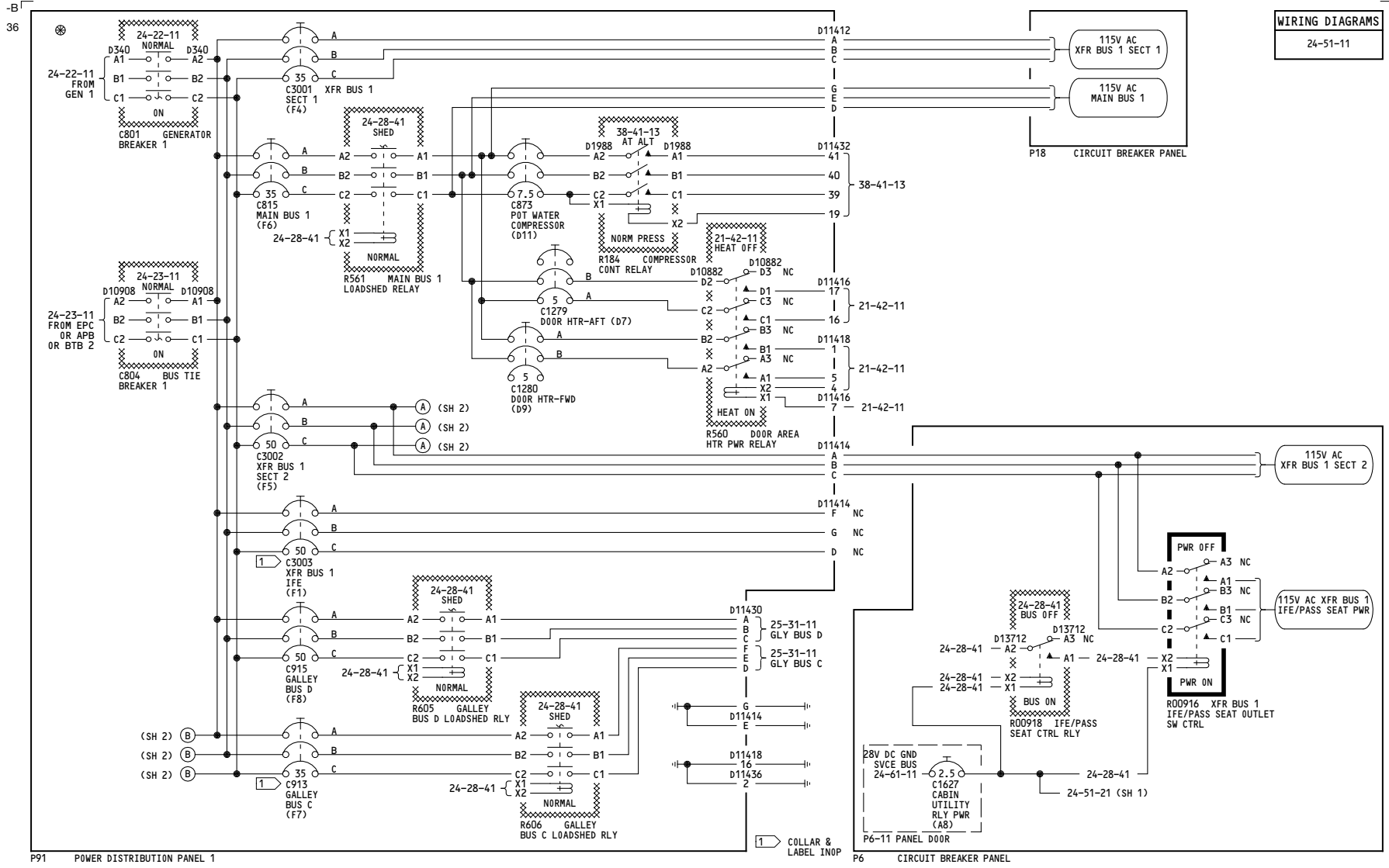
WIRING DIAGRAMS
24-51-11



P91 POWER DISTRIBUTION PANEL NO 1
YC001-YC030

115V AC TRANSFER BUS 1
D280A203

24-51-11



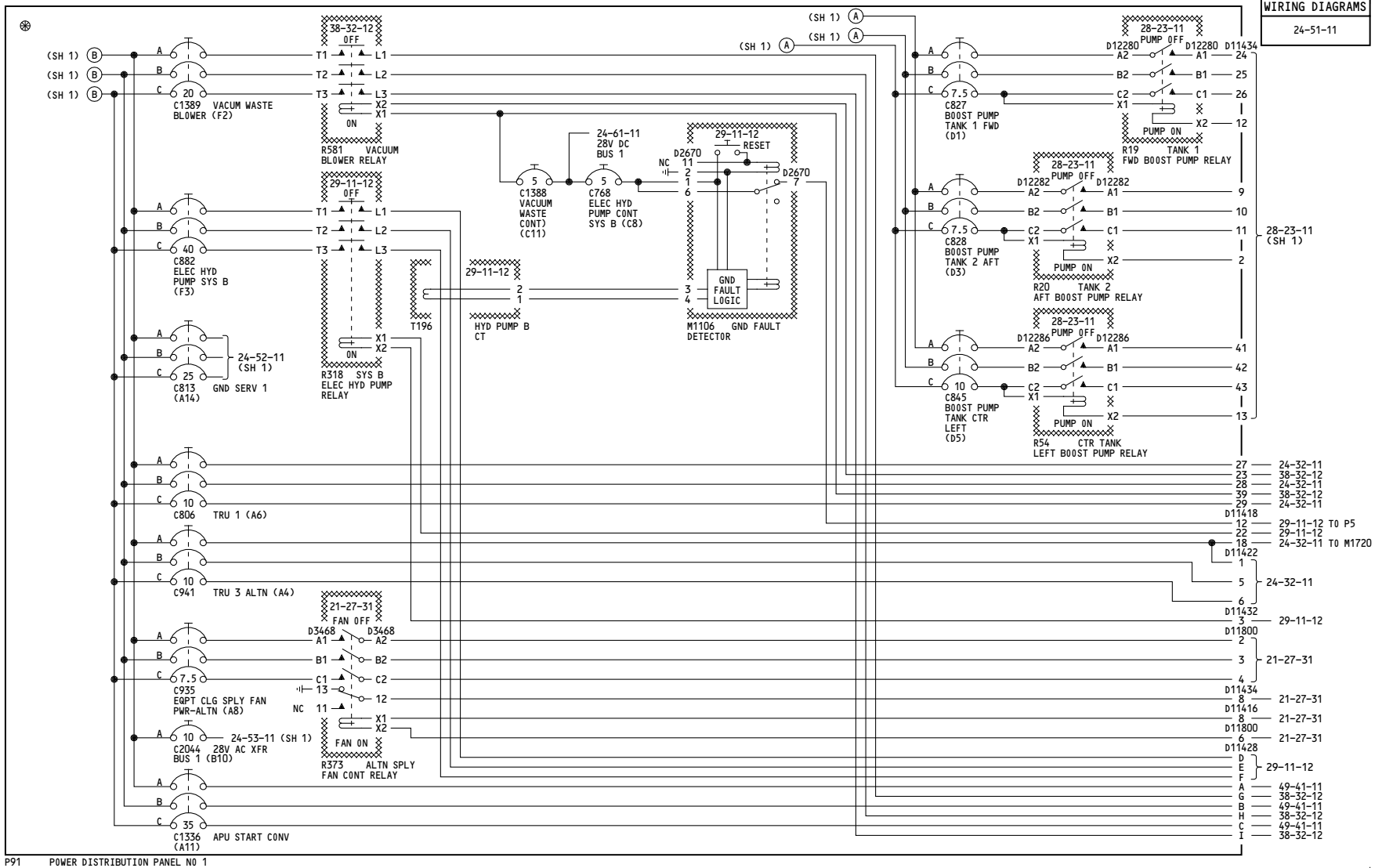
WIRING DIAGRAMS
24-51-11

YK907-YK909	115V AC TRANSFER BUS 1
D280A203	

24-51-11

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2

WIRING DIAGRAMS
24-51-11



YK907-YK909

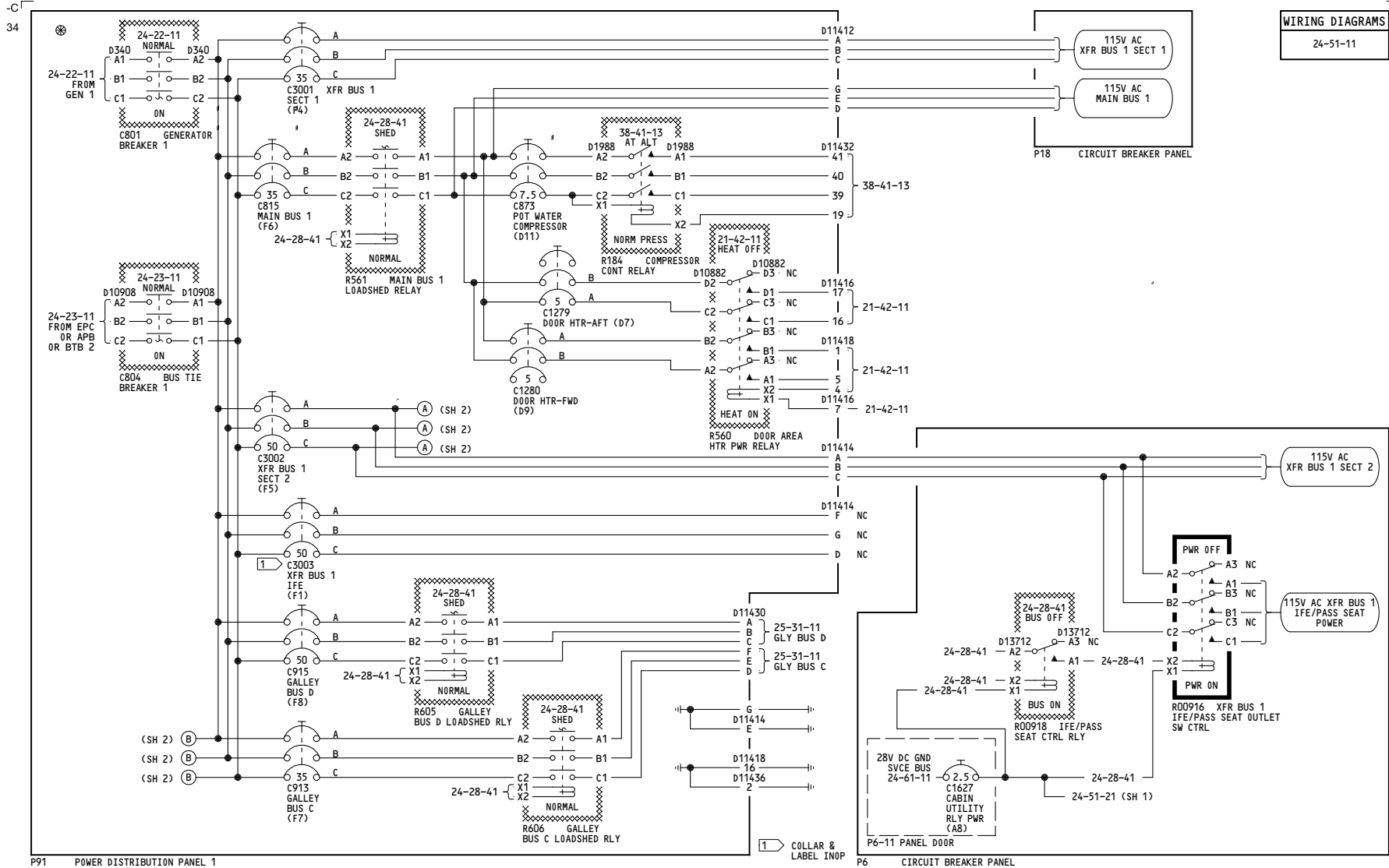
115V AC TRANSFER BUS 1

D280A203

24-51-11

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Apr 18/2007

WIRING DIAGRAMS
24-51-11



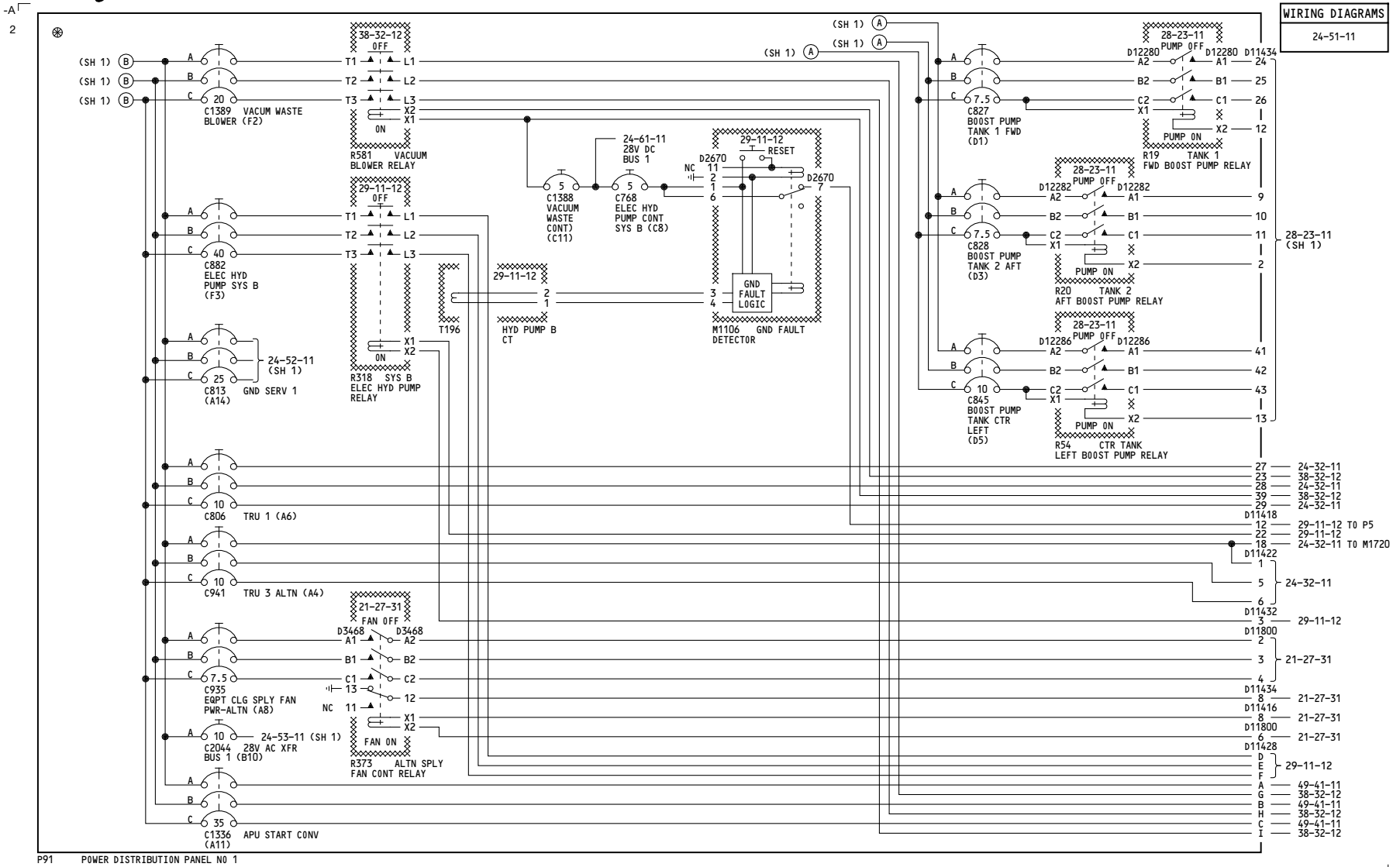
YK910-YM670

115V AC TRANSFER BUS 1

24-51-11

D280A203

WIRING DIAGRAMS
24-51-11



YK910-YM670

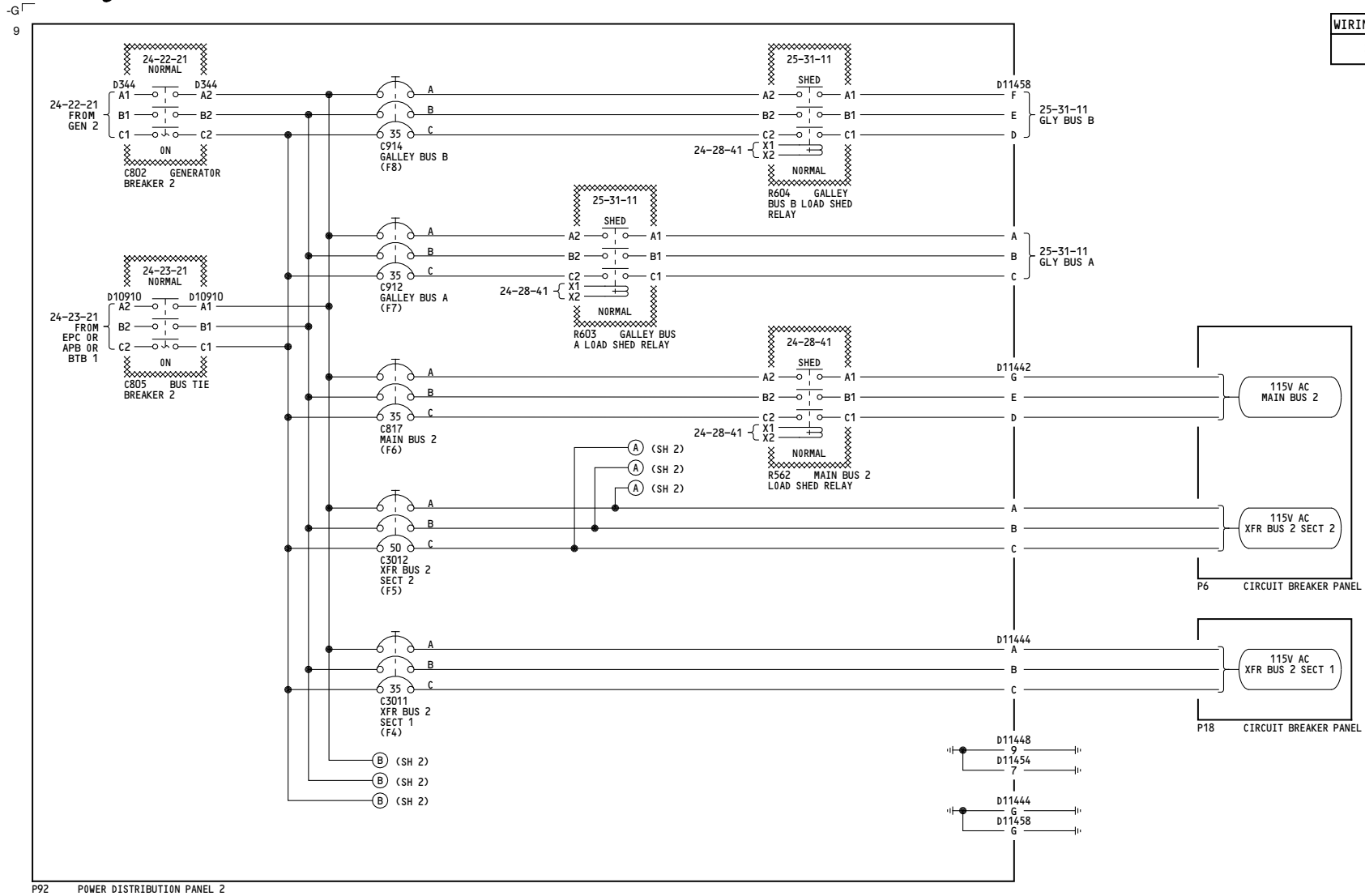
115V AC TRANSFER BUS 1

D280A203

24-51-11

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Sheet 2
Feb 09/2009

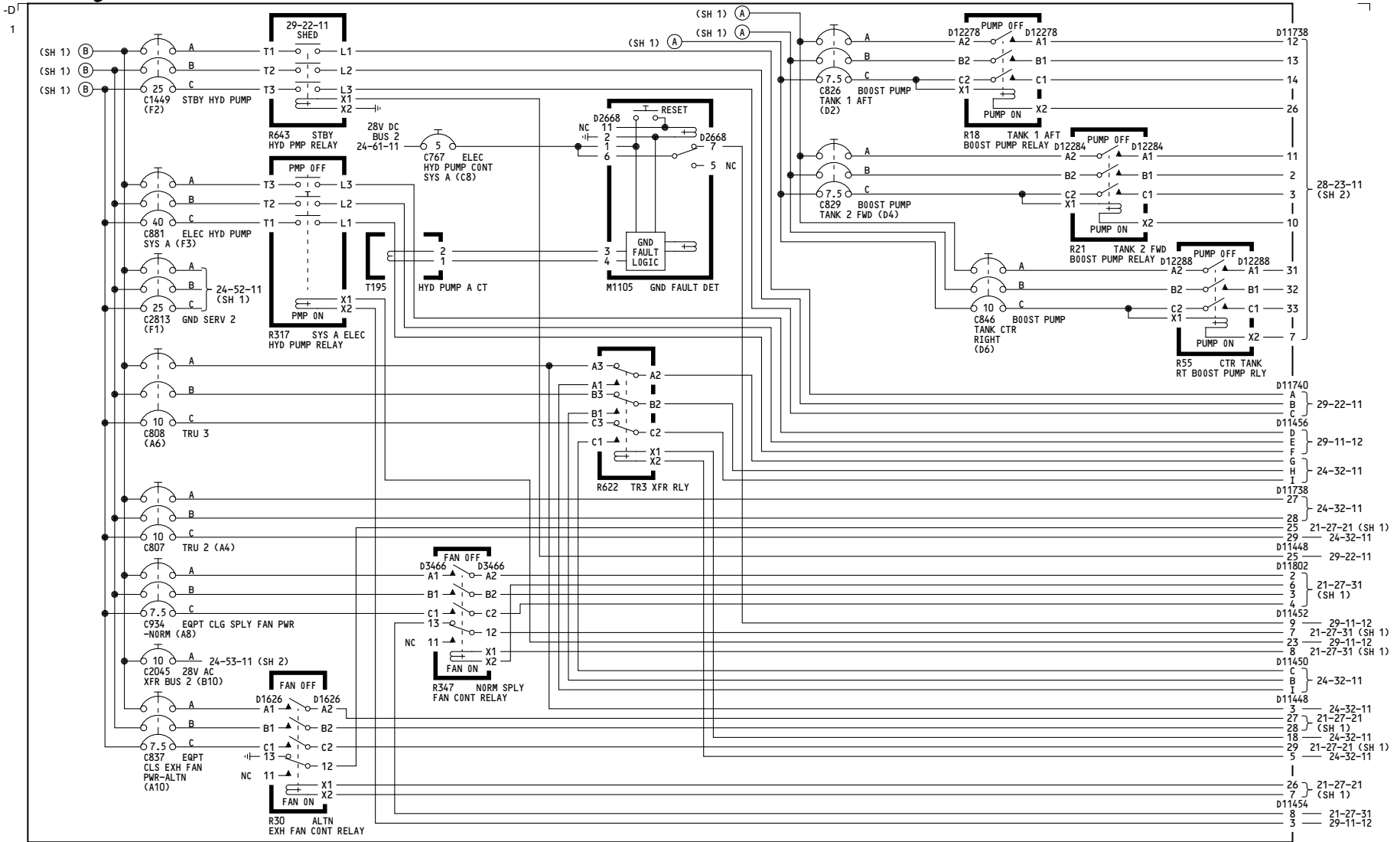
WIRING DIAGRAMS
24-51-21



P92 POWER DISTRIBUTION PANEL 2

YC001-YC030	115V AC TRANSFER BUS 2
D280A203	

24-51-21



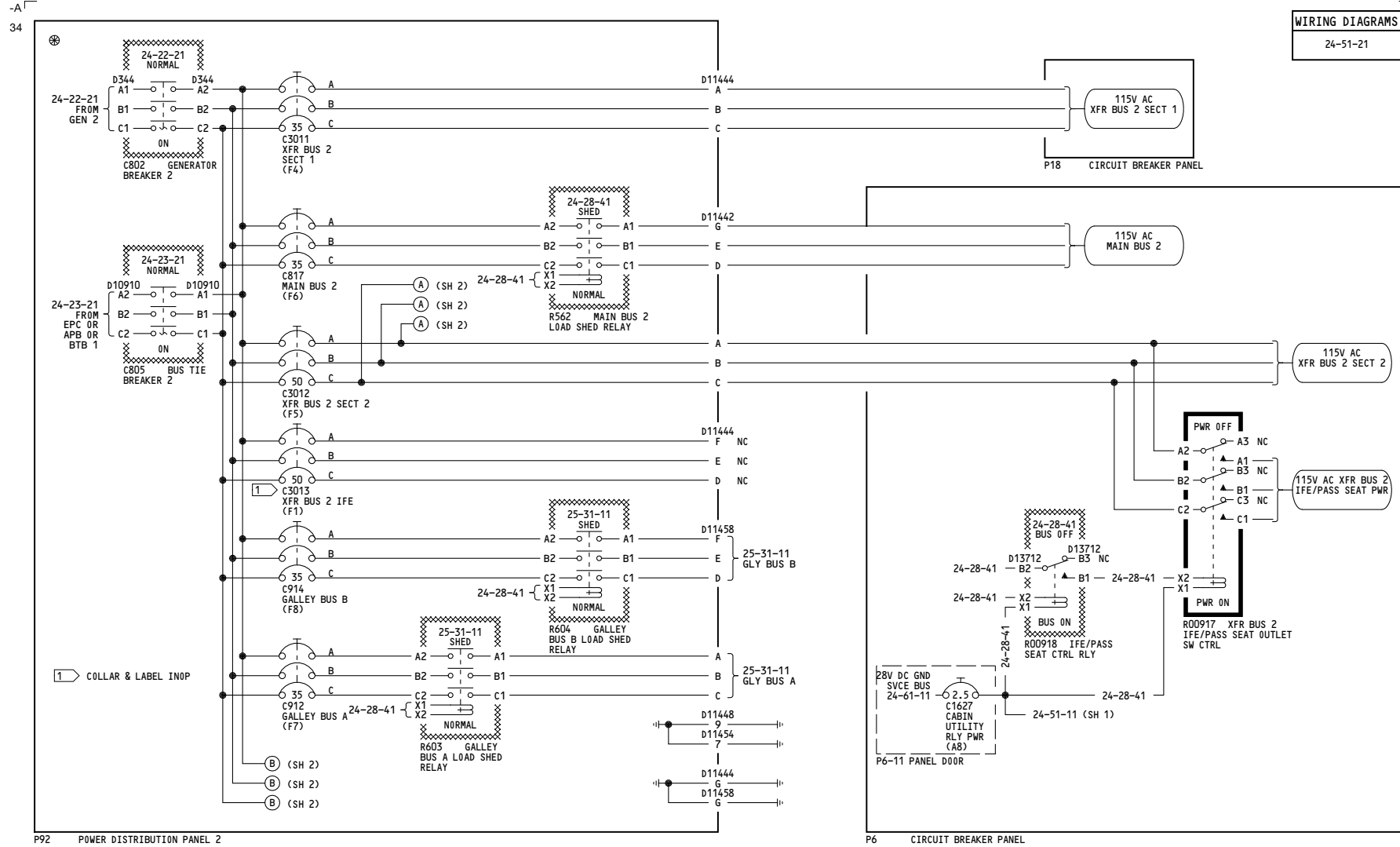
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YC001-YC030

115V AC TRANSFER BUS 2

24-51-21

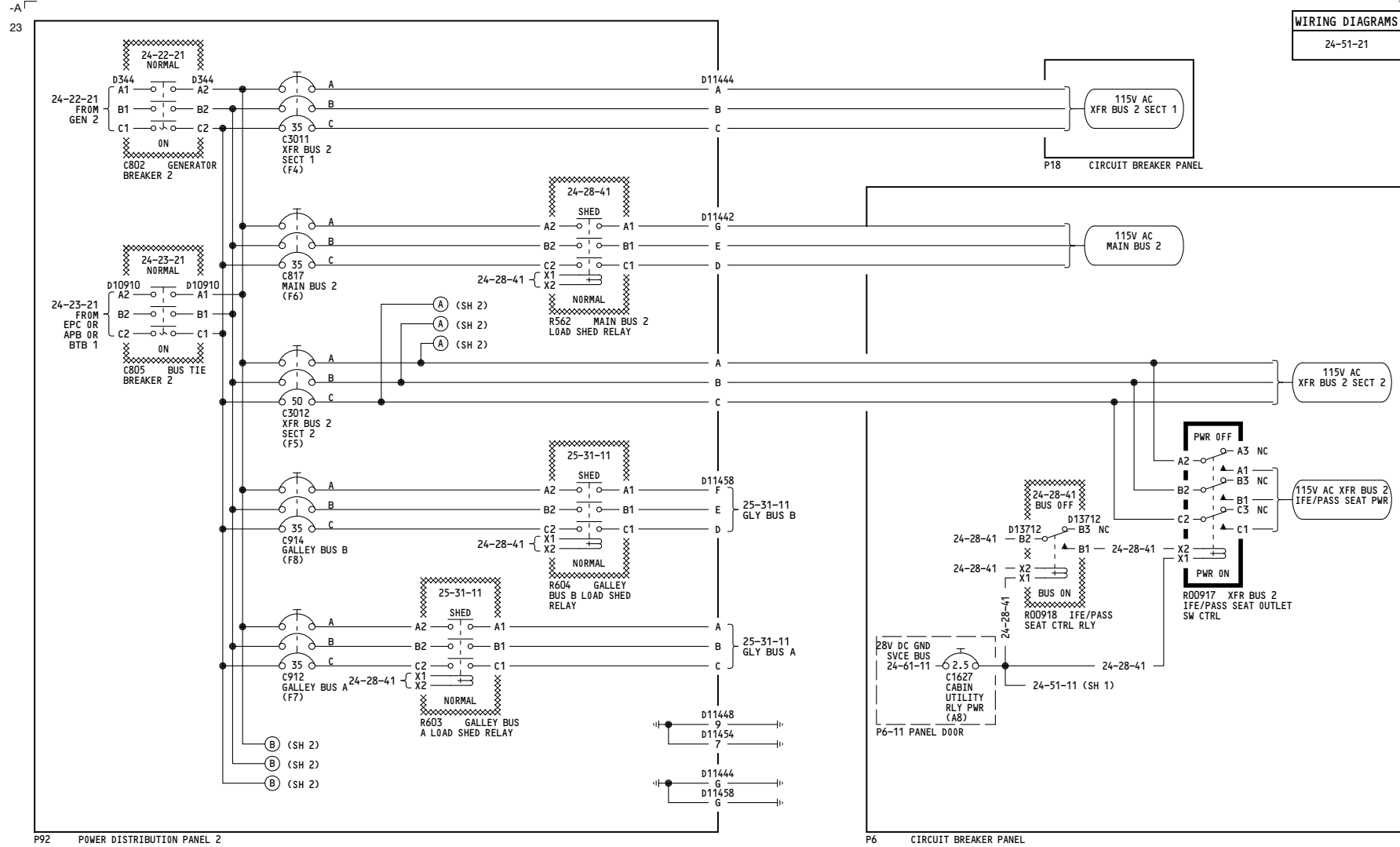
D280A203



YC031-YC050, YK907-YK911, YL421-YL426	115V AC TRANSFER BUS 2
	D280A203

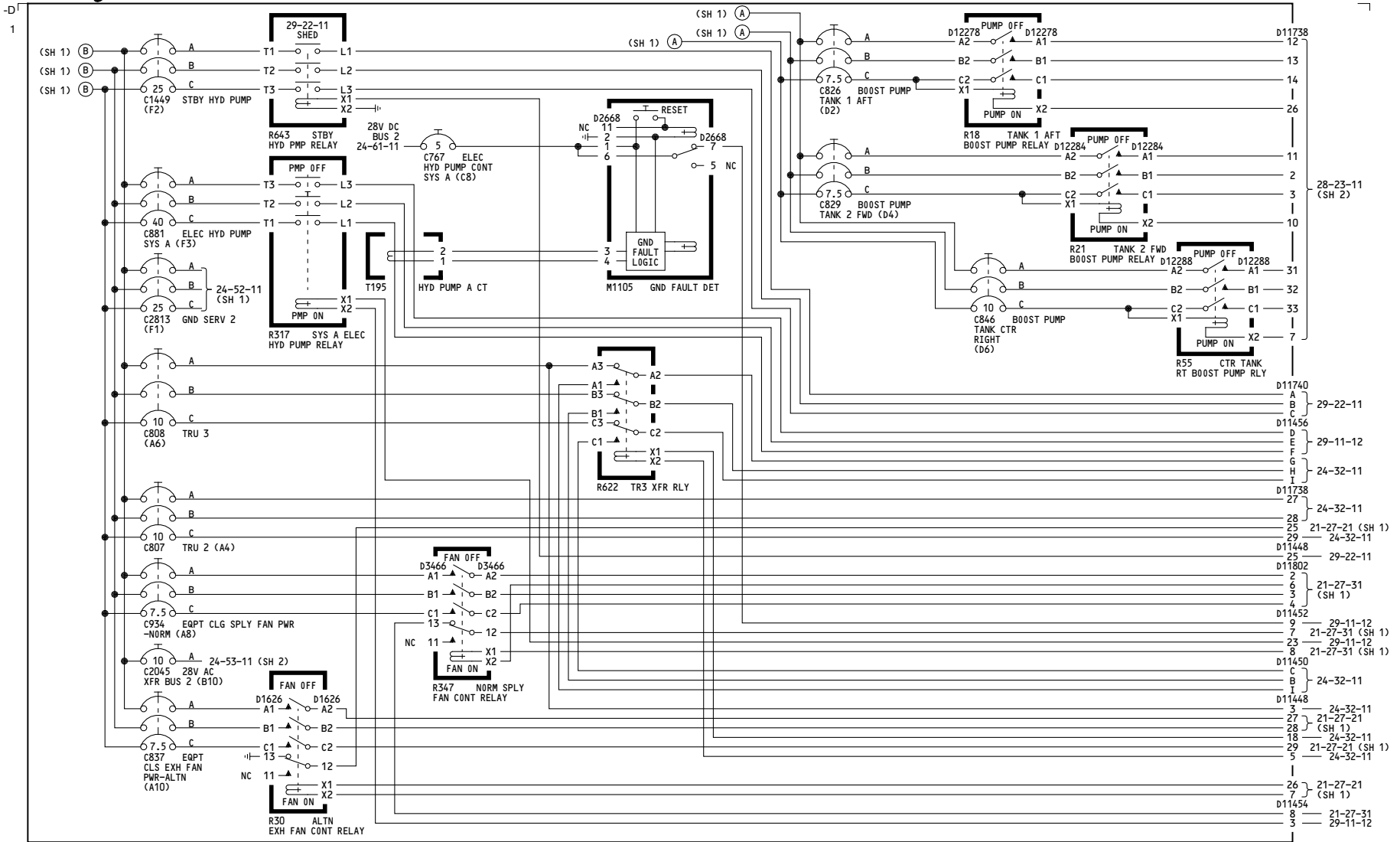
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WIRING DIAGRAMS
24-51-21



YK901-YK906	115V AC TRANSFER BUS 2 D280A203
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24-51-21



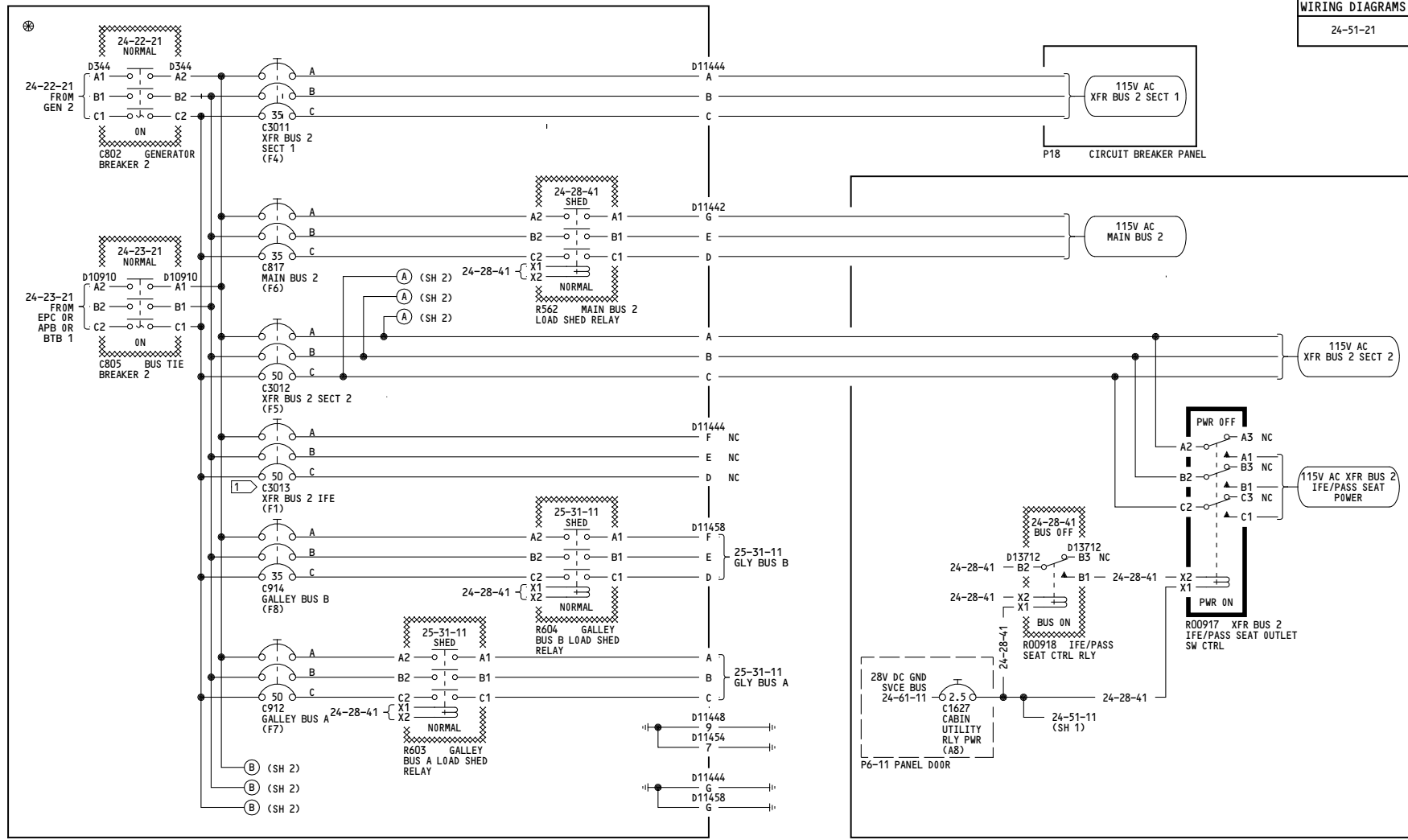
P92 POWER DISTRIBUTION PANEL NO 2

YK901-YK906	115V AC TRANSFER BUS 2
D280A203	

24-51-21

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WIRING DIAGRAMS
24-51-21



P92 POWER DISTRIBUTION PANEL 2

P6 CIRCUIT BREAKER PANEL

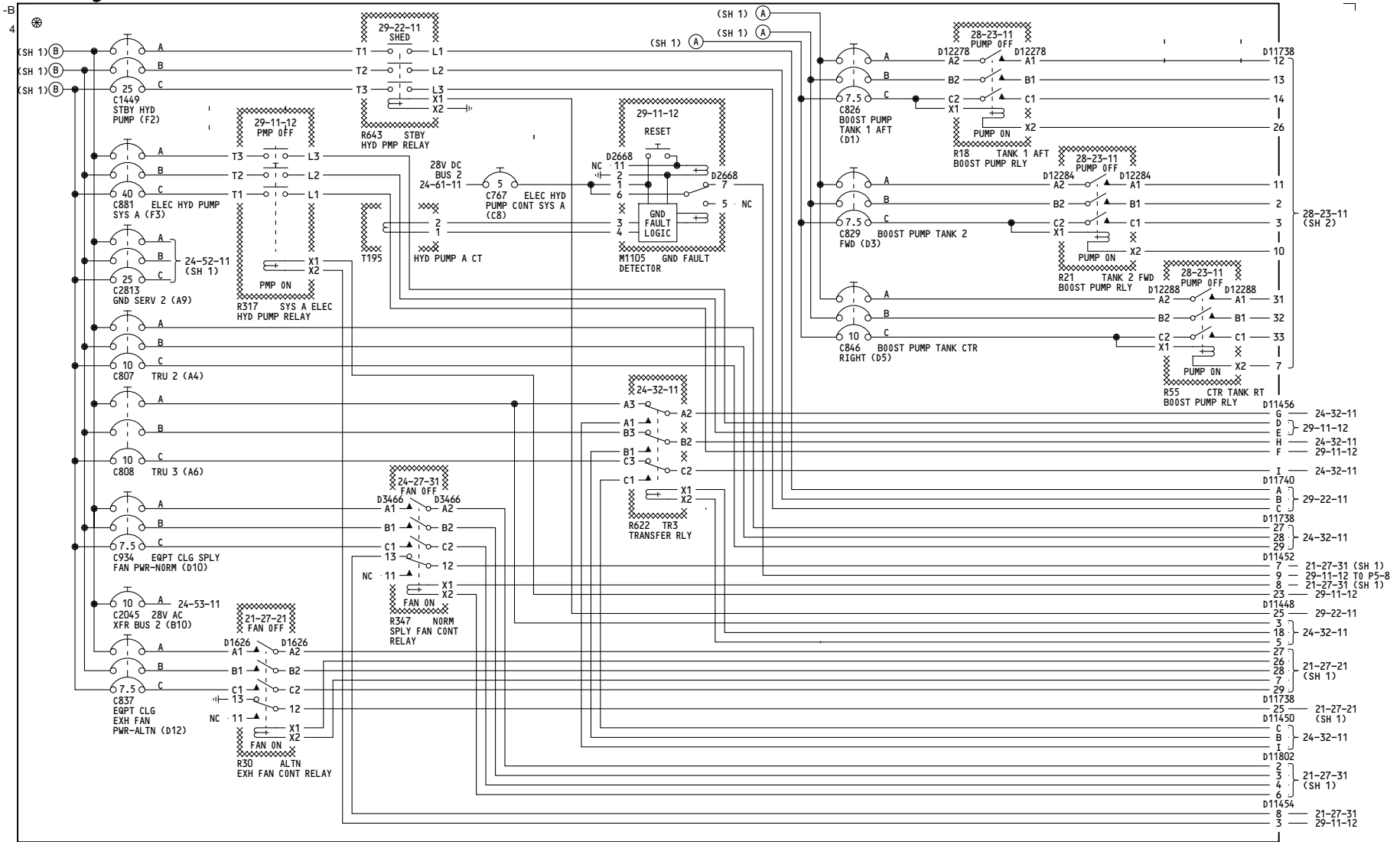
NOTES:
1 COLLAR & LABEL INOP

YK912-YL401, YL427-YL430, YM652

115V AC TRANSFER BUS 2

D280A203

24-51-21



P92 POWER DISTRIBUTION PANEL NO 2

YK912-YL401, YL427-YL430, YM652

115V AC TRANSFER BUS 2

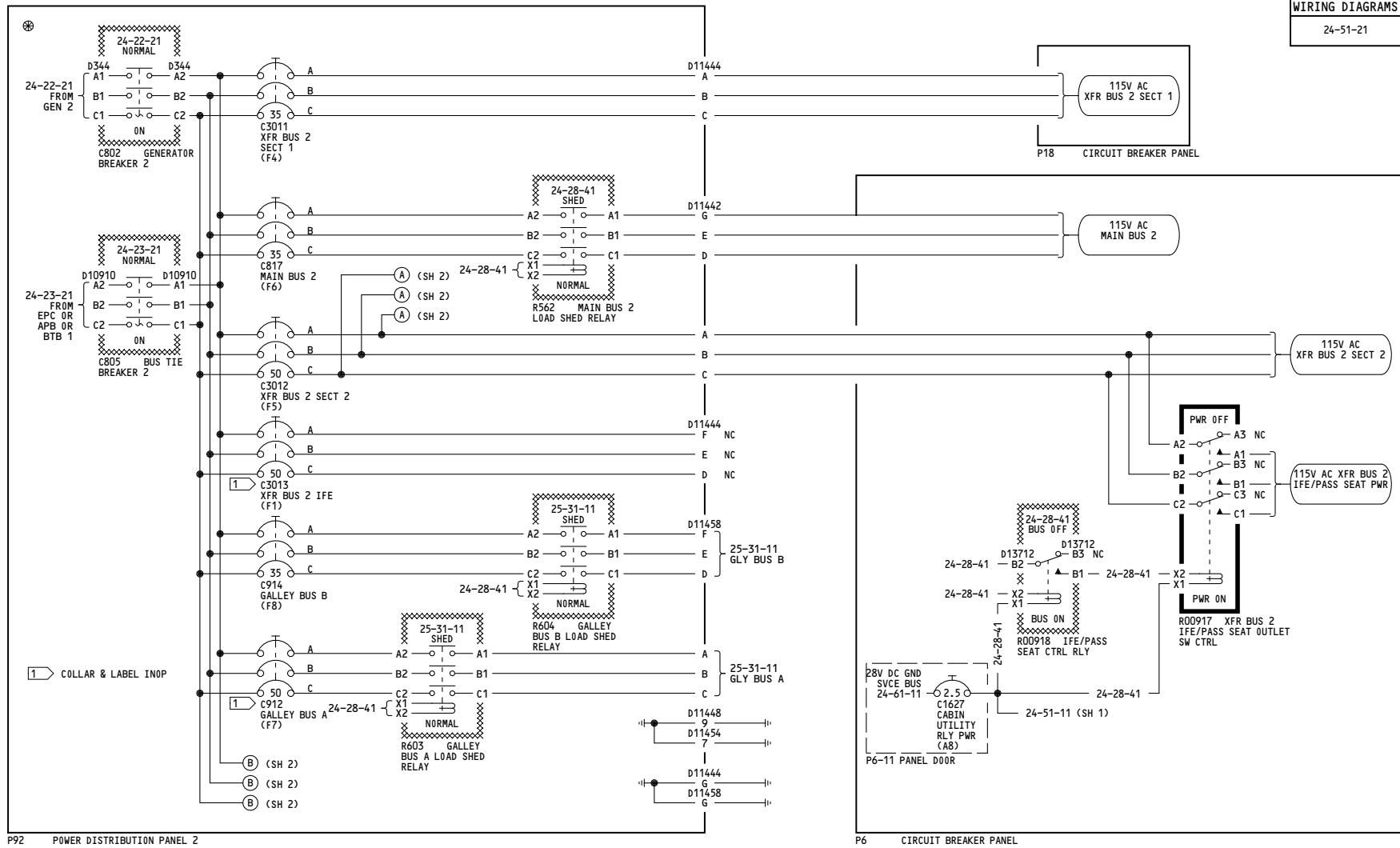
D280A203

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Sheet 2
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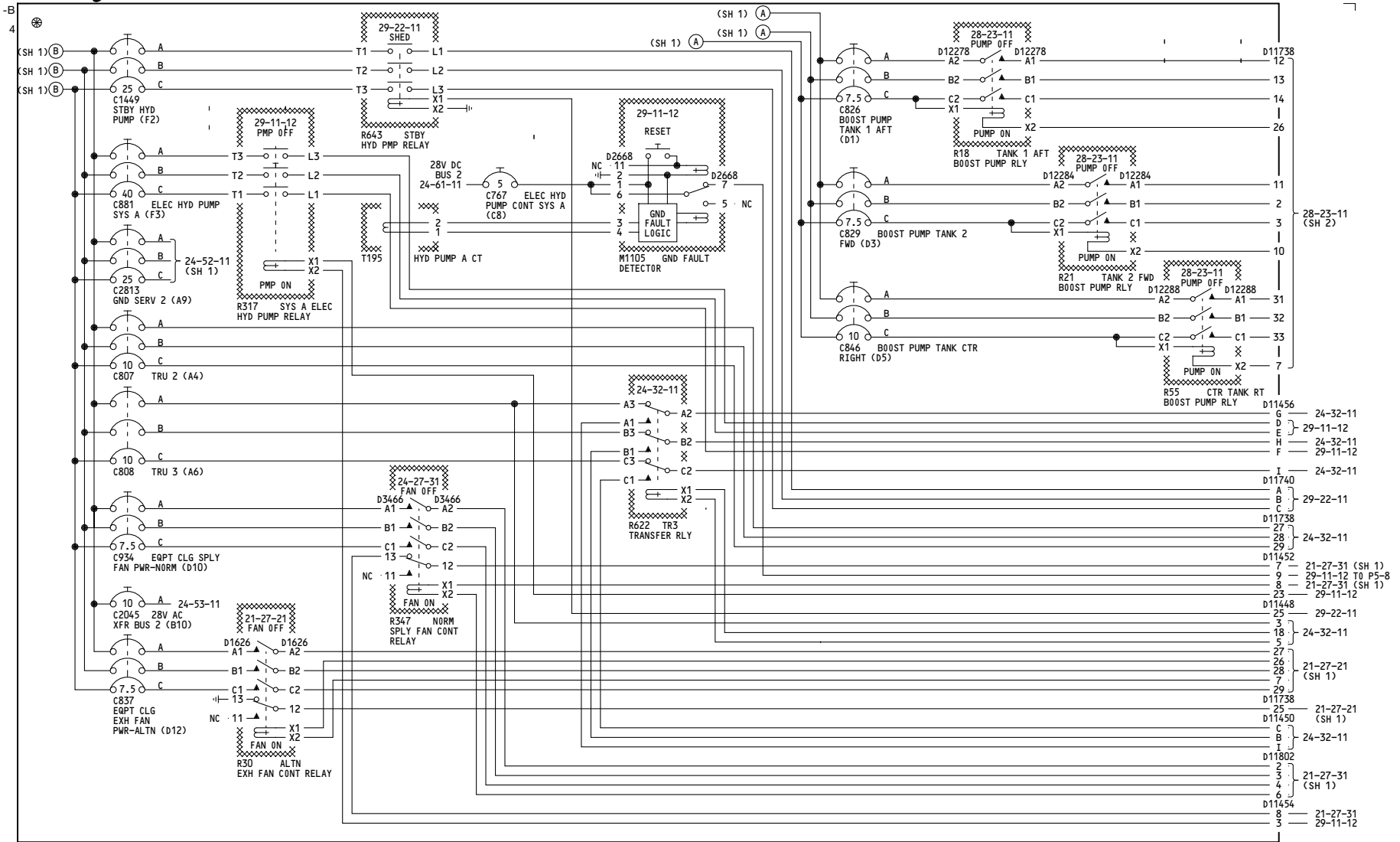
-A
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WIRING DIAGRAMS
24-51-21



YM643-YM651, YM653-YM670	115V AC TRANSFER BUS 2 D280A203
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24-51-21



P92 POWER DISTRIBUTION PANEL NO 2

YM643-YM651, YM653-YM670

115V AC TRANSFER BUS 2

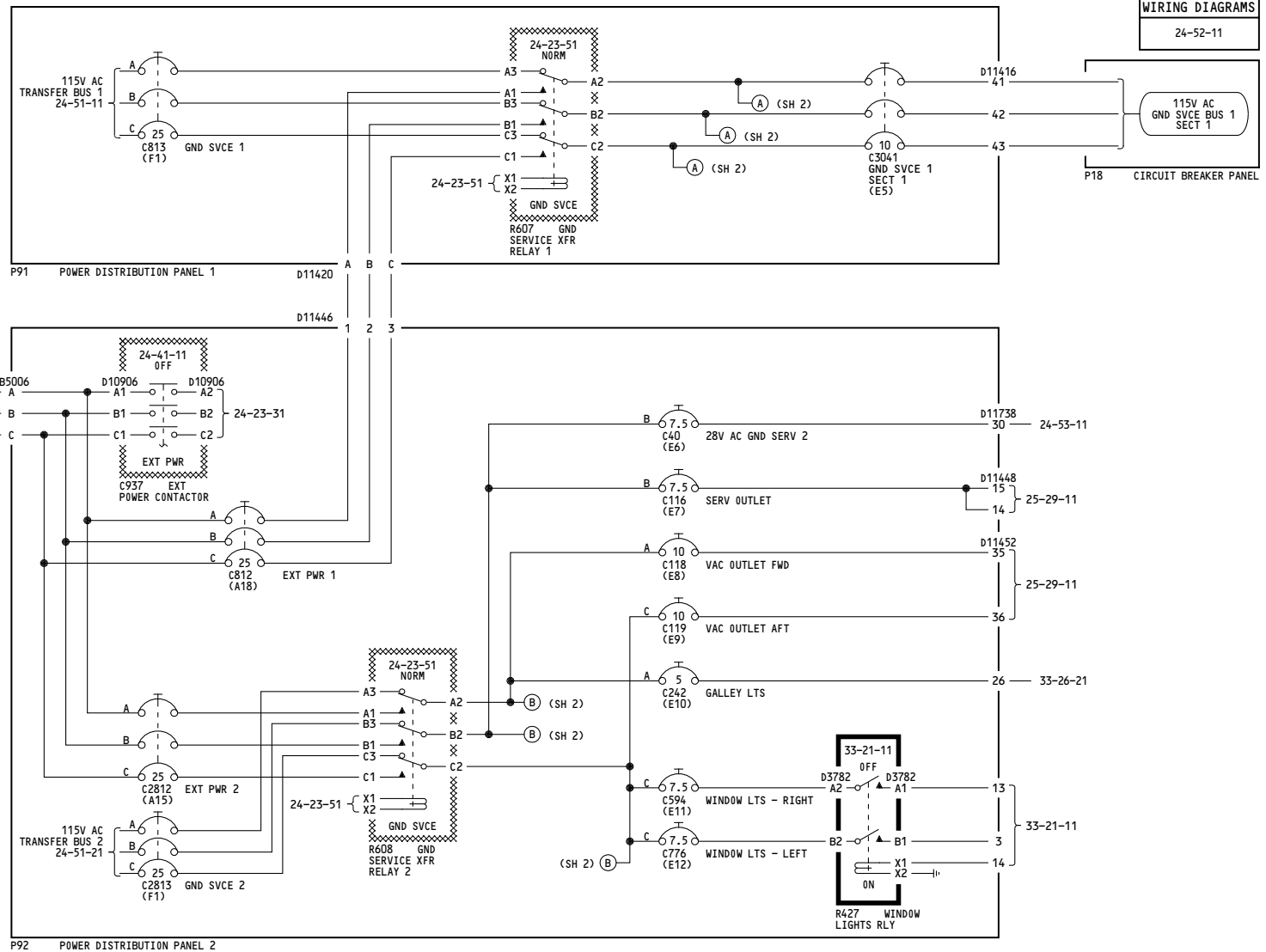
D280A203

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Nov 11/2008

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WIRING DIAGRAMS
24-52-11

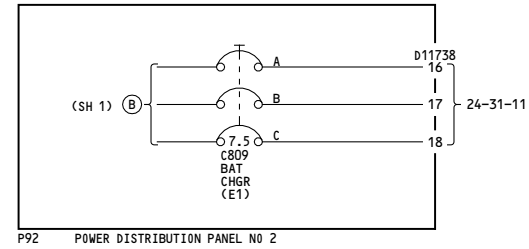
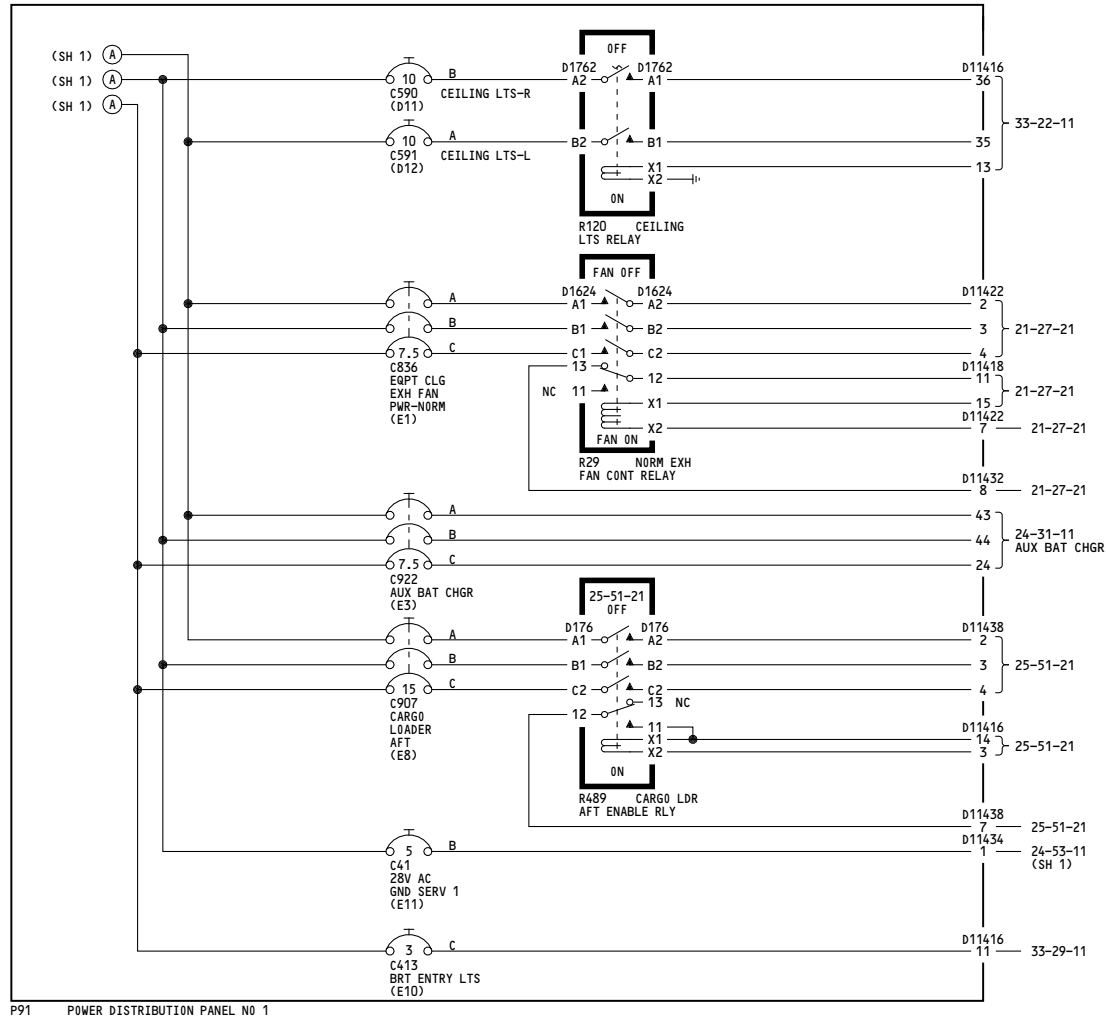


YC001-YC030, YK901-YK906	<p>115V AC GROUND SERVICE BUS</p> <p>D280A203</p>

24-52-11

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Jul 17/2007

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2



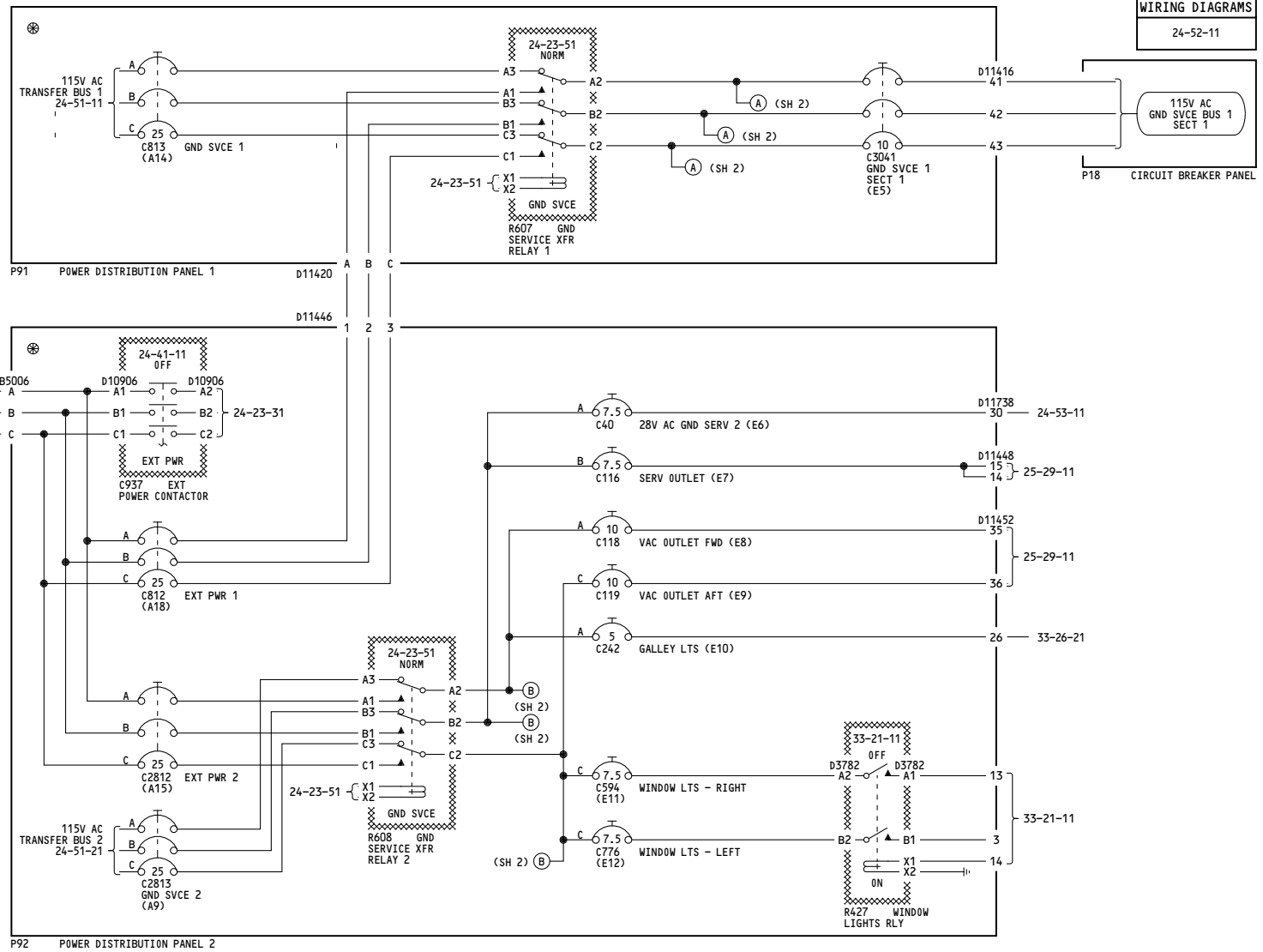
YC001-YC030, YK901-YK906	115V AC GROUND SERVICE BUS D280A203
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24-52-11

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Sheet 2
Jul 17/2007

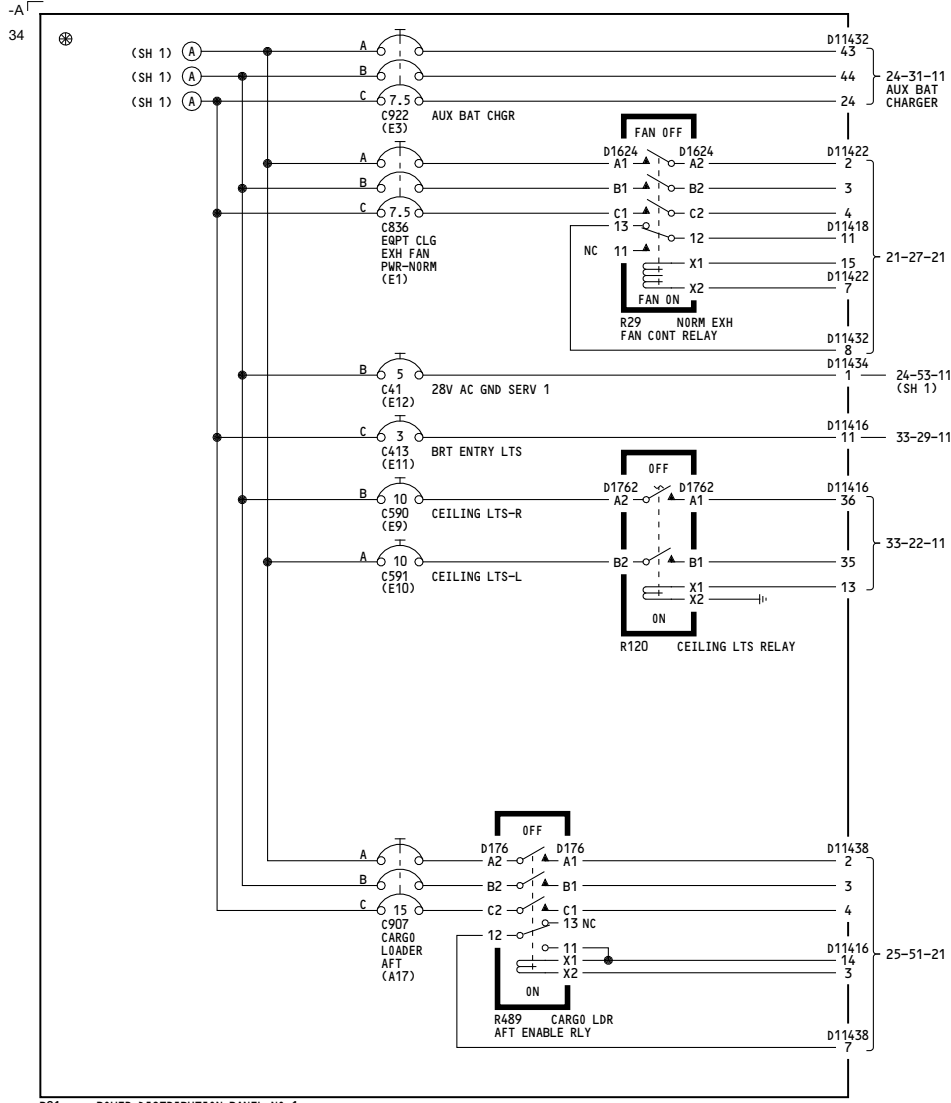
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WIRING DIAGRAMS
24-52-11

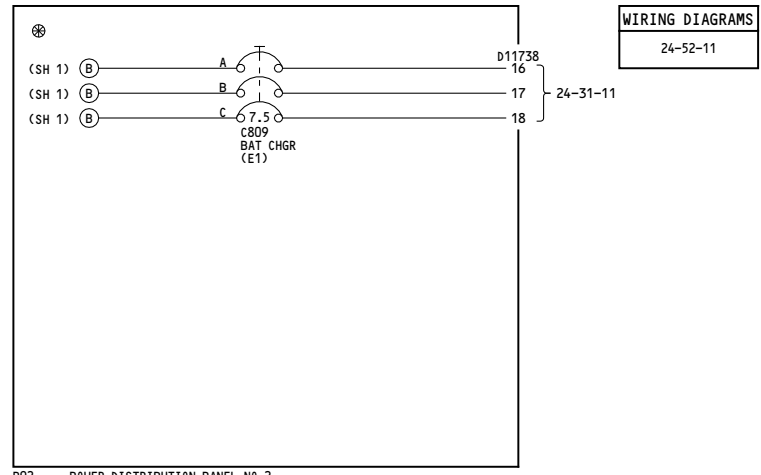


YC031-YC050, YK907-YM670	115V AC GROUND SERVICE BUS D280A203
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24-52-11



P91 POWER DISTRIBUTION PANEL NO 1



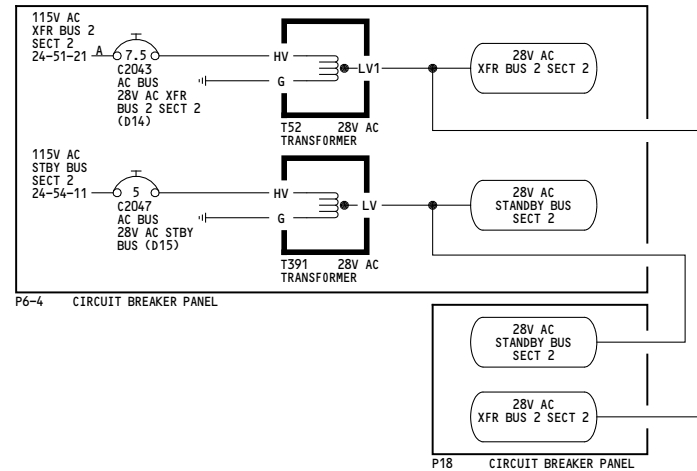
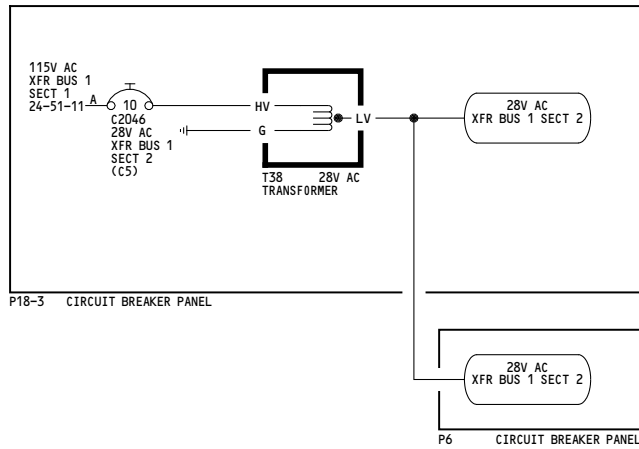
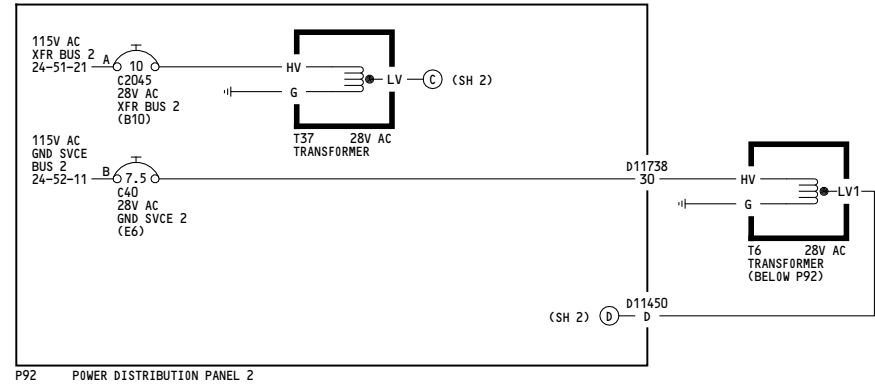
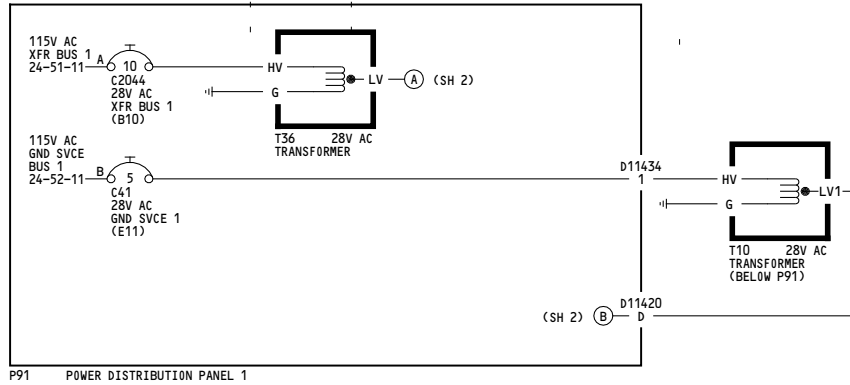
P92 POWER DISTRIBUTION PANEL NO 2

WIRING DIAGRAMS
24-52-11

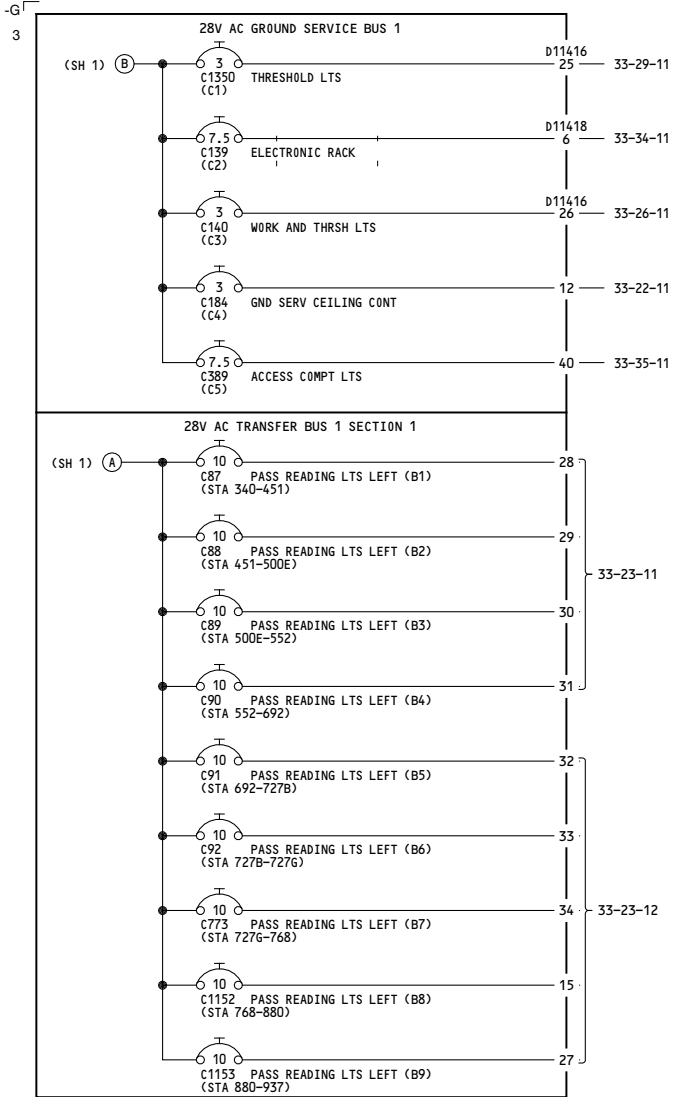
YC031-YC050, YK907-YM670	115V AC GROUND SERVICE BUS
D280A203	

24-52-11

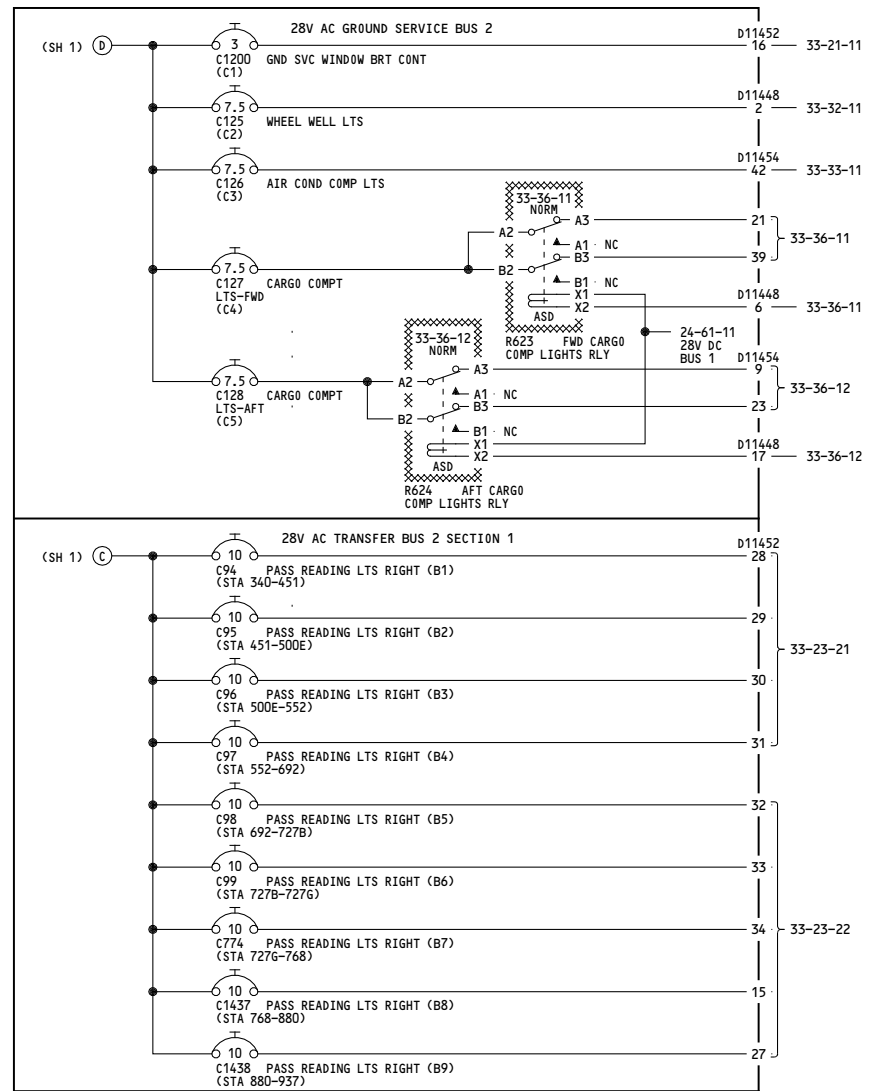
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YC001-YC030, YK901-YK906	28V AC BUSES
	D280A203



P91 POWER DISTRIBUTION PANEL NO 1



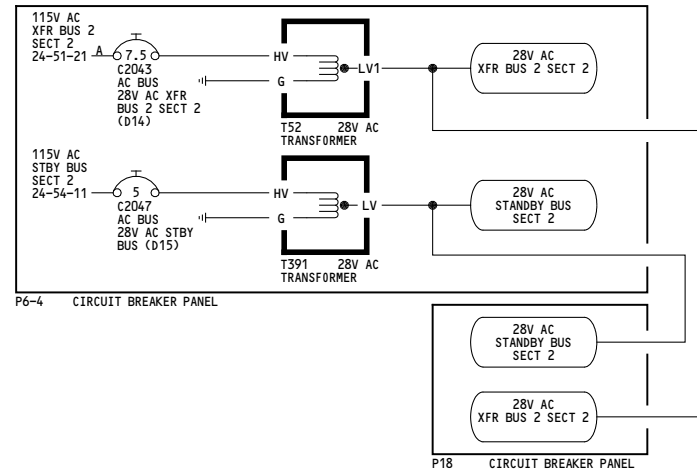
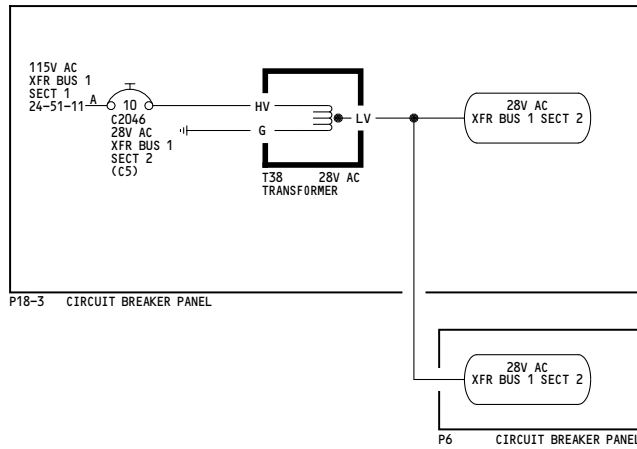
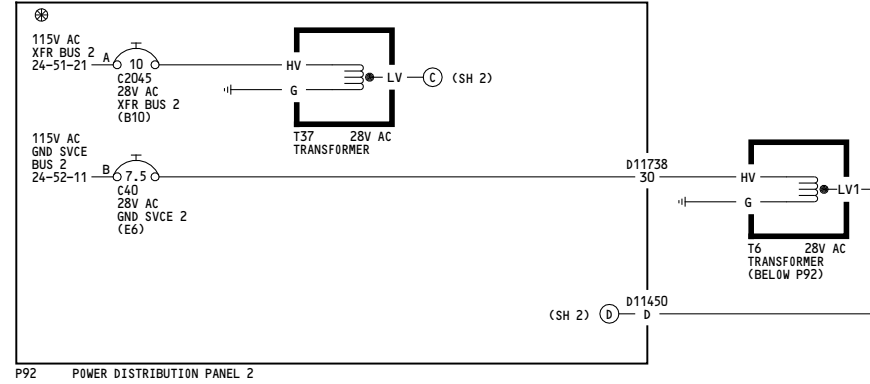
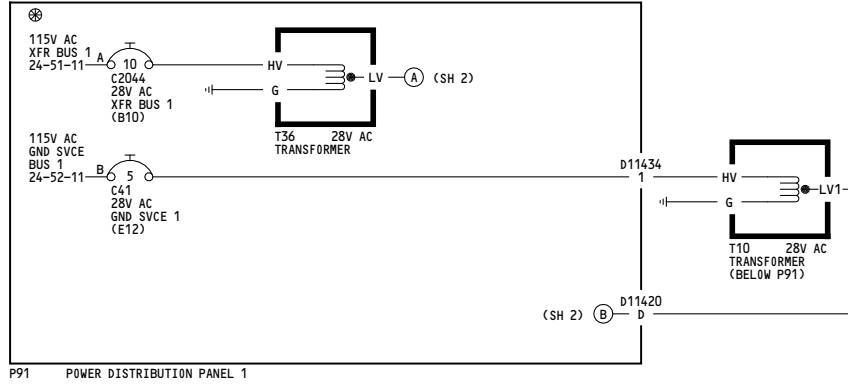
P92 POWER DISTRIBUTION PANEL NO 2

YC001-YC030, YK901-YK906

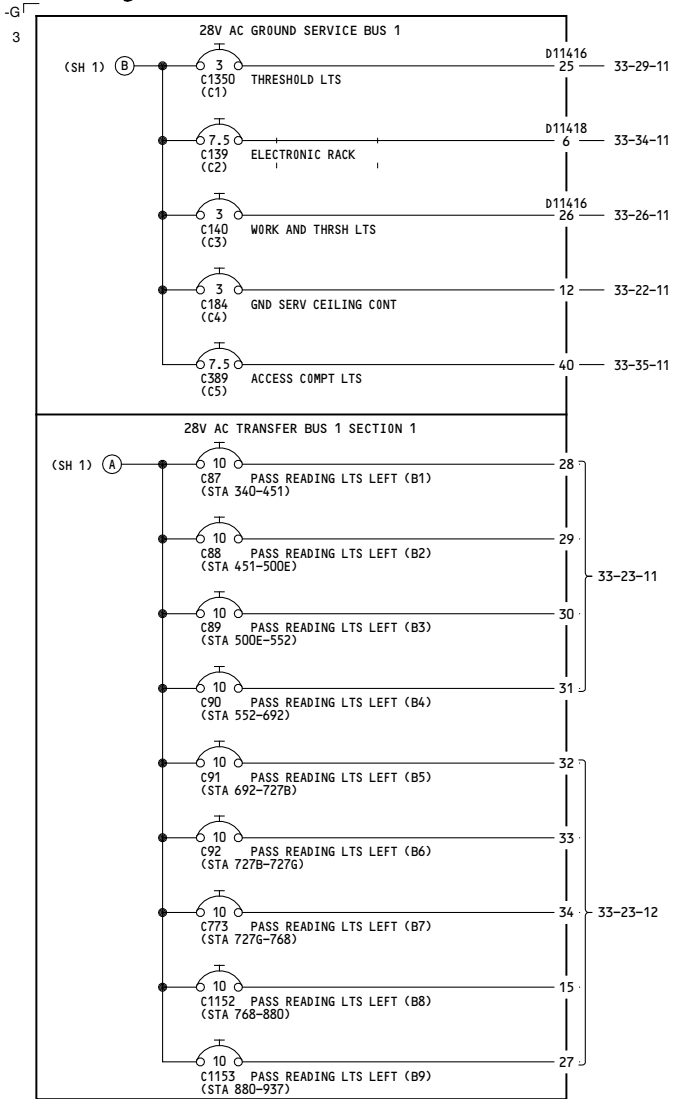
28V AC BUSES

D280A203

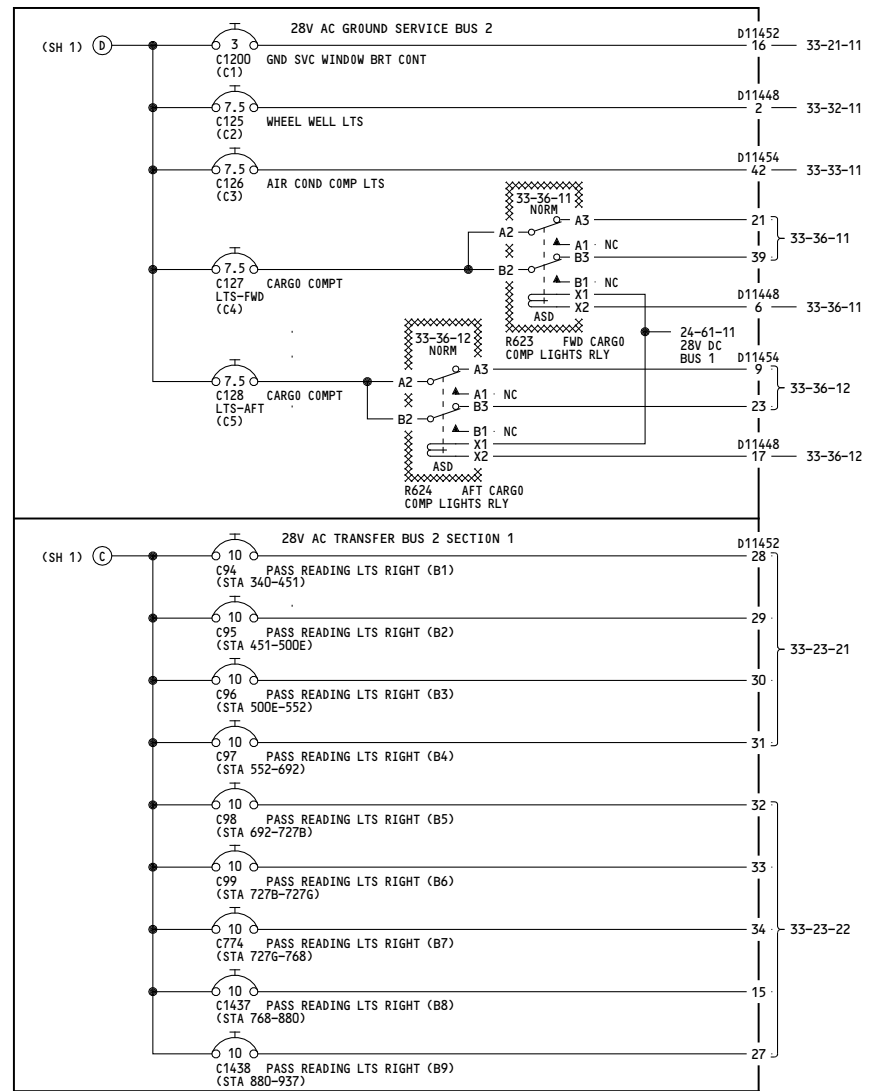
24-53-11



YC031-YC050, YK907-YL430	28V AC BUSES
	D280A203



P91 POWER DISTRIBUTION PANEL NO 1



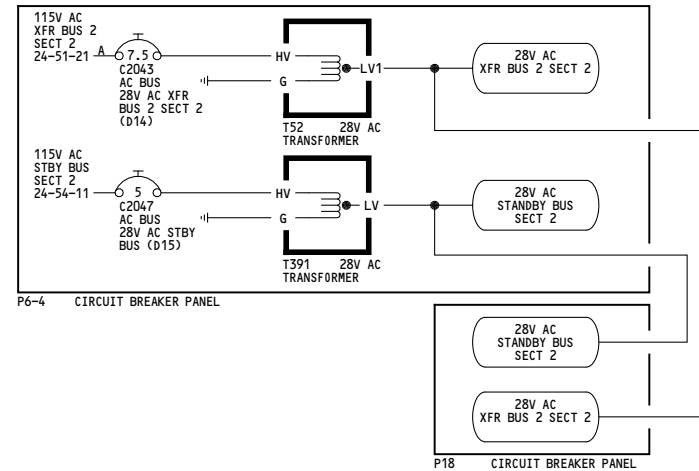
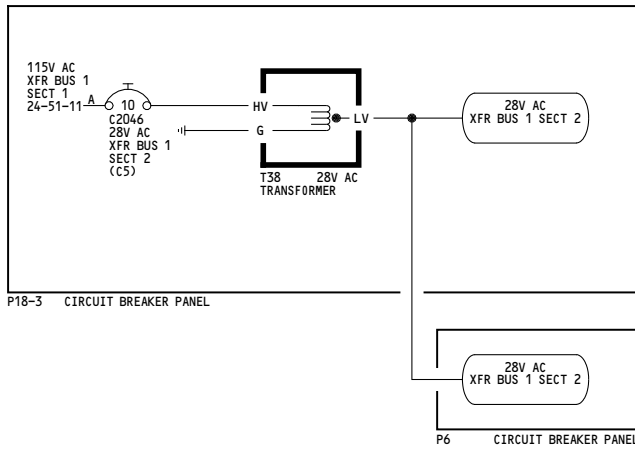
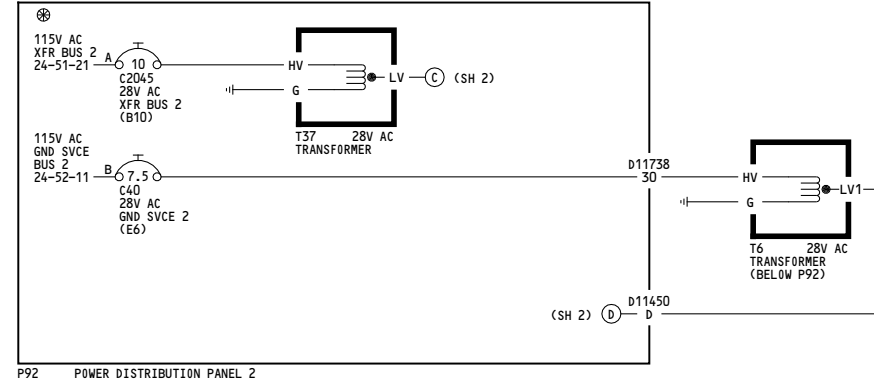
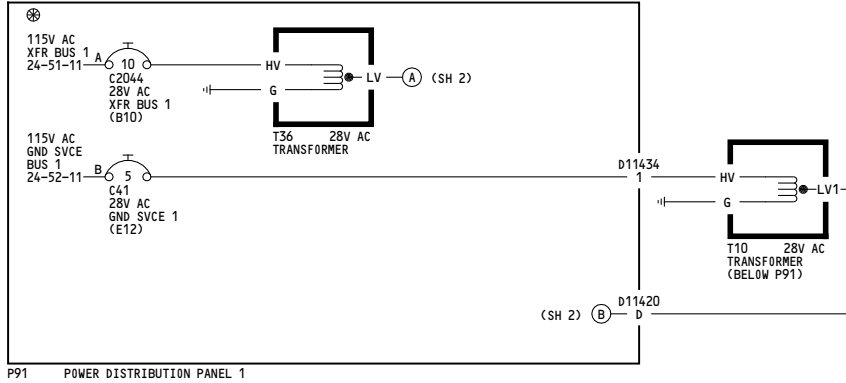
P92 POWER DISTRIBUTION PANEL NO 2

YC031-YC050, YK907-YL430

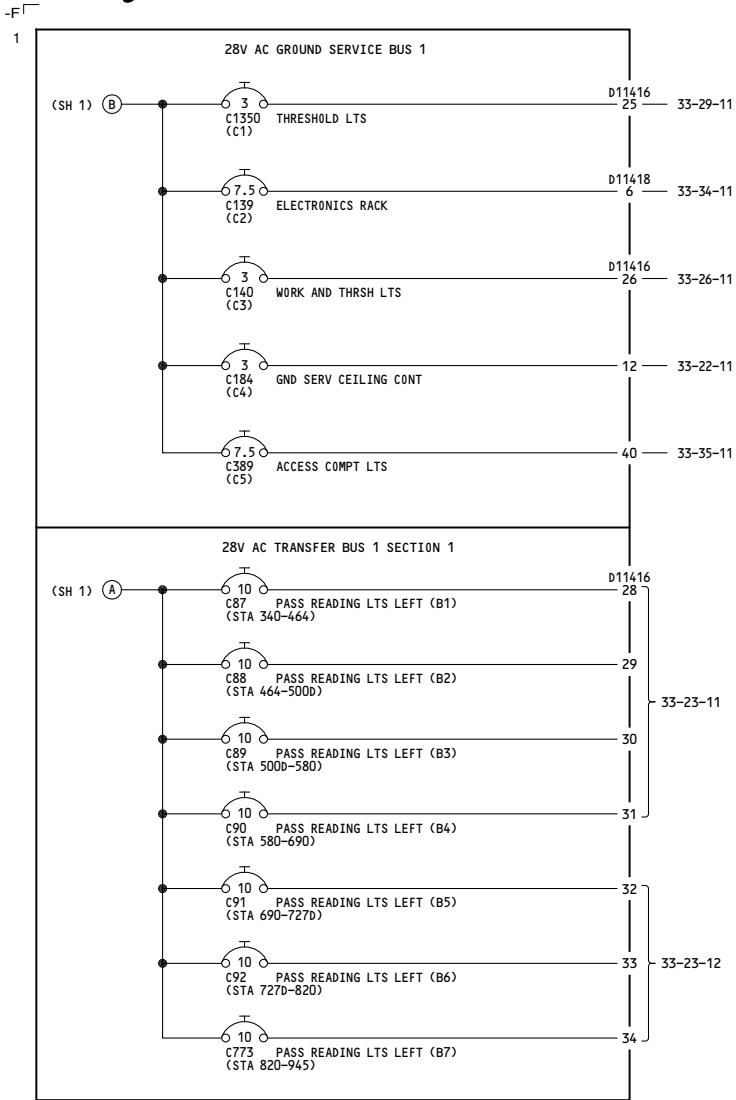
28V AC BUSES

D280A203

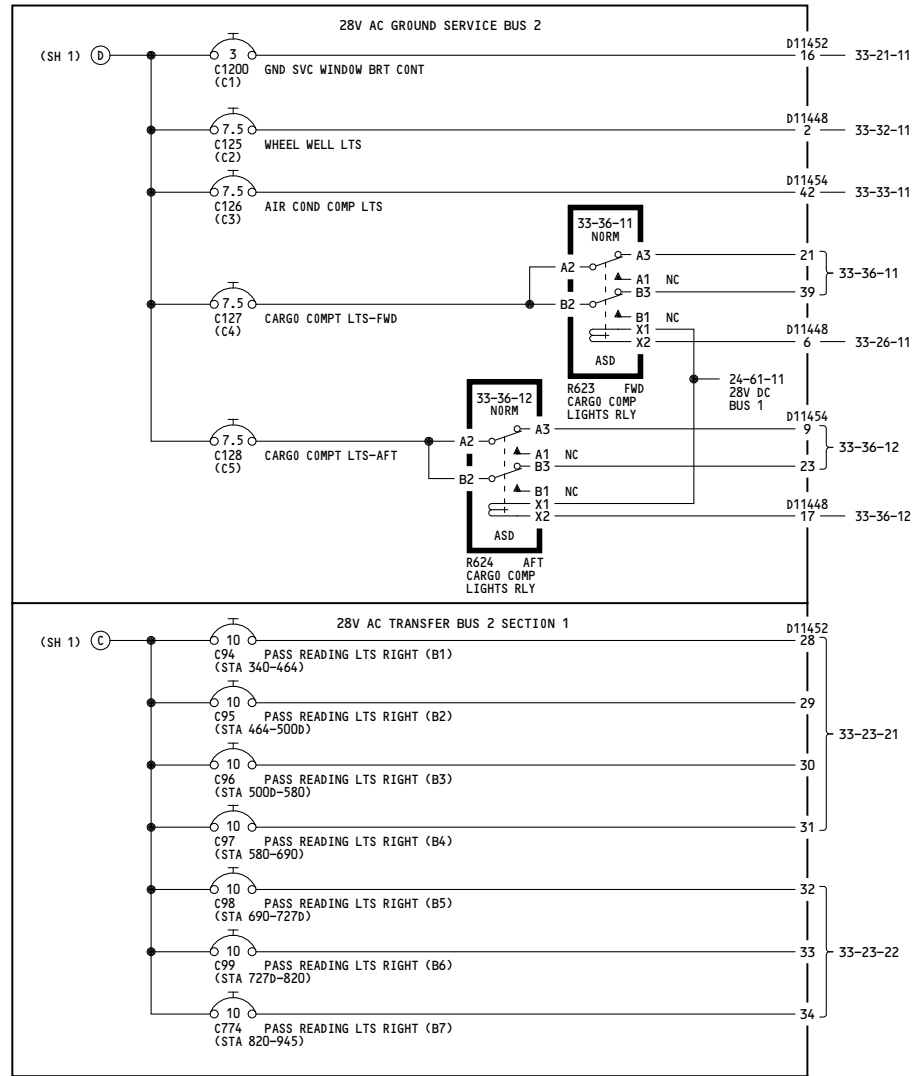
24-53-11



YM643-YM670	28V AC BUSES
	D280A203



P91 POWER DISTRIBUTION PANEL NO 1



P92 POWER DISTRIBUTION PANEL NO 2

YM643-YM670

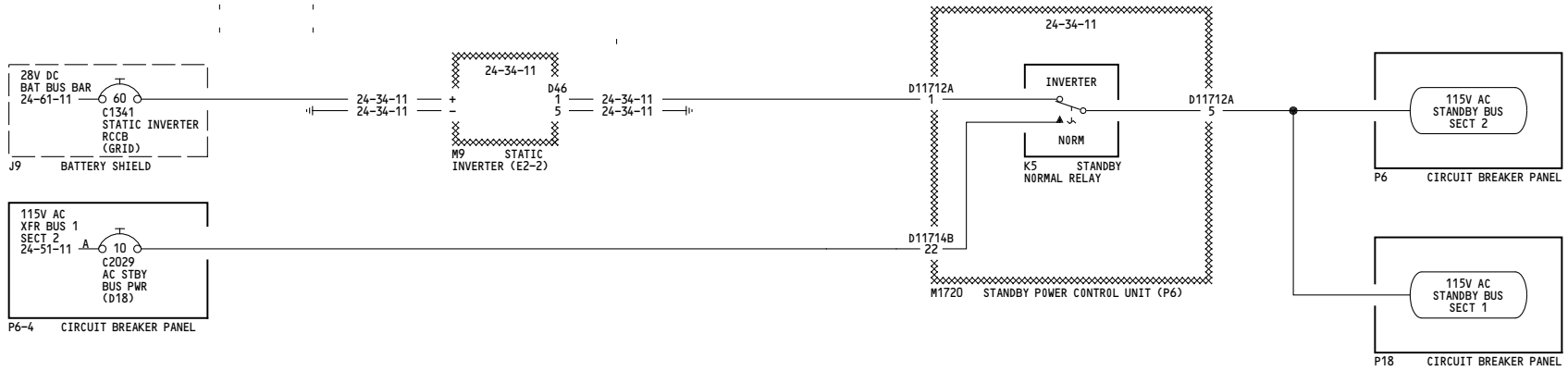
28V AC BUSES

D280A203

24-53-11

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WIRING DIAGRAMS
24-54-11

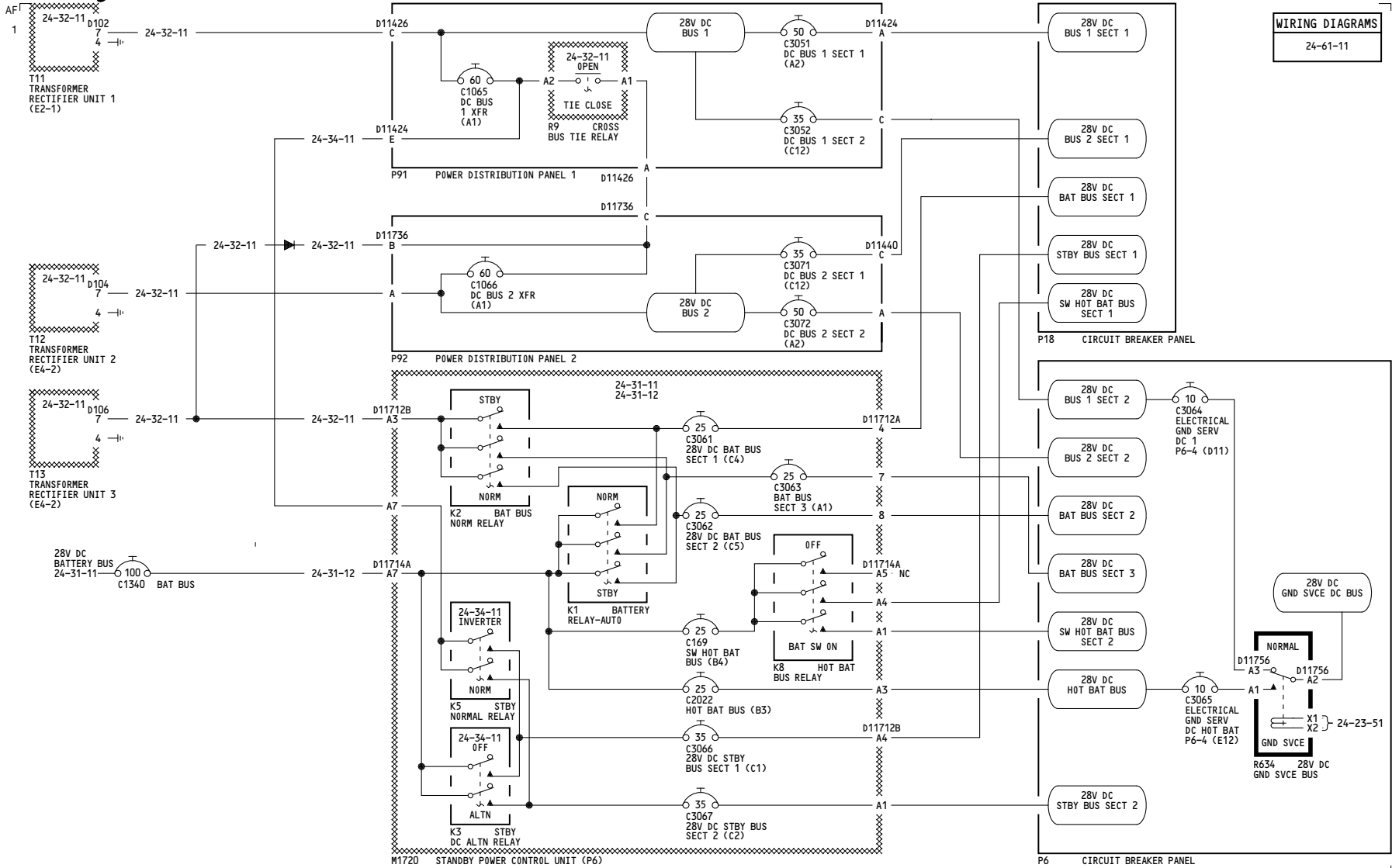


ALL	<p>115V AC STANDBY BUS</p> <p>D280A203</p>
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WIRING DIAGRAMS
24-61-11

ALL	28V DC BUSES
	D280A203

24-61-11