CHAPTER 24 ELECTRICAL POWER



CHAPTER 24 ELECTRICAL POWER

CH-SC-SU	Schem Page	Sheet Date		CH-SC-SU	Schem	Page	Sheet	Date	
24-EFFECTIVE P	AGES			24-21-31					
	1 thru 3 4	Jun 21/2016 BLANK	R	24-21-51		101		Jun 21/2016	
24-CONTENTS			R			101		Jun 21/2016	
R	1	Jun 21/2016		24-21-52					
R	2	Jun 21/2016	R			101		Jun 21/2016	
R	3	Jun 21/2016		24-22-11		101		Juli 2 1/2010	
	4	BLANK	R	L+ LL 11		101		Jun 21/2016	
24-ALPHABETIC	AL INDEX			24-22-21		101		Juli 21/2010	
	1	Aug 15/2013	R	24-22-21		101		Jun 21/2016	
	2	BLANK	l n	24-22-31		101		Juli 21/2016	
24-00-00			ا	24-22-31		404		. 04/0040	
	101	Mar 14/2016	R	04.00.44		101		Jun 21/2016	
R	102	Jun 21/2016		24-23-11					
24-00-10			R	04.00.04		101		Jun 21/2016	
R	101	Jun 21/2016	_	24-23-21					
24-11-11			R			101		Jun 21/2016	
R	101	Jun 21/2016		24-23-31					
24-11-21			R			101		Jun 21/2016	
R	101	Jun 21/2016		24-23-51					
24-21-11			R			101		Jun 21/2016	
R	101	Jun 21/2016		24-24-11					
24-21-21	-		R			101		Jun 21/2016	
R	101	Jun 21/2016		24-24-21					
		5411 Z 11 Z 5 15	R			101		Jun 21/2016	

A = Added, R = Revised, D = Deleted, O = Overflow

24-EFFECTIVE PAGES

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Page 1 Jun 21/2016



CHAPTER 24 ELECTRICAL POWER

	CH-SC-SU	Schem Page	Sheet Date		CH-SC-SU	Schem	Page	Sheet	Date	
	24-24-31				24-33-13					
R		101	Jun 21/2016	R			101		Jun 21/2016	
	24-28-11				24-34-11					
R		101	Jun 21/2016	R			101		Jun 21/2016	
	24-28-21				24-41-11					
R		101	Jun 21/2016	R			101		Jun 21/2016	
	24-28-22				24-51-11					
R		101	Jun 21/2016				101	1	Mar 14/2016	
	24-28-31							2	Mar 14/2016	
R		101	Jun 21/2016	R			102	1	Jun 21/2016	
	24-28-41			R				2	Jun 21/2016	
		101	Mar 14/2016		24-51-21					
R		102	Jun 21/2016				101	1	Mar 14/2016	
	24-31-11							2	Mar 14/2016	
R		101	Jun 21/2016	R			102	1	Jun 21/2016	
	24-31-12			R				2	Jun 21/2016	
R		101	Jun 21/2016		24-52-11					
	24-32-11			R			101	1	Jun 21/2016	
R		101	Jun 21/2016	R				2	Jun 21/2016	
	24-33-11				24-53-11					
R		101	Jun 21/2016	R			101	1	Jun 21/2016	
	24-33-12			R				2	Jun 21/2016	
R		101	Jun 21/2016		24-54-11					
				R			101		Jun 21/2016	

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24-EFFECTIVE PAGES



CHAPTER 24 ELECTRICAL POWER

	CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
	24-61-11									
R			101	Jui	n 21/2016					
ı										
i.										

A = Added, R = Revised, D = Deleted, O = Overflow

24-EFFECTIVE PAGES



CHAPTER 24 ELECTRICAL POWER

	Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
	ELECTRICAL POWER						
	ELECTRICAL POWER SIMPLIFIED	24-00-00		101		Mar 14/2016	YT101-YT120
ı				102		Jun 21/2016	YT126-YT133
ı	ELECTRICAL POWER UNIT LOCATION	24-00-10		101		Jun 21/2016	ALL
	AC GENERATOR DRIVE SYSTEM						
ı	IDG NO. 1	24-11-11		101		Jun 21/2016	ALL
ı	IDG NO. 2	24-11-21		101		Jun 21/2016	ALL
	AC GENERATION SYSTEM						
ı	GENERATOR POWER AND REGULATION - NO. 1	24-21-11		101		Jun 21/2016	ALL
ı	GENERATOR POWER AND REGULATION - NO. 2	24-21-21		101		Jun 21/2016	ALL
ı	GENERATOR POWER AND REGULATION - APU	24-21-31		101		Jun 21/2016	ALL
ı	GENERATOR CONTROL UNITS BLOCK (G10, G12, G14)	24-21-51		101		Jun 21/2016	ALL
ı	BUS POWER CONTROL UNIT BLOCK (G15)	24-21-52		101		Jun 21/2016	ALL
	AC GENERATION CONTROL SYSTEM						
I	GENERATOR CONTROL UNIT NO.1	24-22-11		101		Jun 21/2016	ALL
ı	GENERATOR CONTROL UNIT NO.2	24-22-21		101		Jun 21/2016	ALL
ı	GENERATOR CONTROL UNIT APU	24-22-31		101		Jun 21/2016	ALL
	AC GENERATION BUS CONTROL						
ı	TRANSFER BUS CONTROL NO.1	24-23-11		101		Jun 21/2016	ALL
ı	TRANSFER BUS CONTROL NO.2	24-23-21		101		Jun 21/2016	ALL
ı	AC TIE BUS	24-23-31		101		Jun 21/2016	ALL
ı	GROUND SERVICE BUS CONTROL	24-23-51		101		Jun 21/2016	ALL

24-CONTENTS

D280A451

Page 1 Jun 21/2016





CHAPTER 24 ELECTRICAL POWER

	Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
	DIFFERENTIAL CURRENT PROTECTION						
ı	DIFFERENTIAL CURRENT PROTECTION GEN NO.1	24-24-11		101		Jun 21/2016	ALL
I	DIFFERENTIAL CURRENT PROTECTION GEN NO.2	24-24-21		101		Jun 21/2016	ALL
I	DIFFERENTIAL CURRENT PROTECTION APU GEN	24-24-31		101		Jun 21/2016	ALL
	AC GENERATION METERS						
ı	AC INDICATION P5-13	24-28-11		101		Jun 21/2016	ALL
ı	AC SYSTEM GENERATOR & APU INDICATION P5-4	24-28-21		101		Jun 21/2016	ALL
ı	SWITCHING P5-4	24-28-22		101		Jun 21/2016	ALL
I	GENERATOR DRIVE & STANDBY POWER SWITCHING INDICATIO N P5-5	24-28-31		101		Jun 21/2016	ALL
	AUTOMATIC LOAD SHED GALLEYS & MAIN BUSES	24-28-41		101		Mar 14/2016	YT101-YT120
ı				102		Jun 21/2016	YT126-YT133
	DC GENERATION SYSTEM						
I	BATTERY AND BATTERY CHARGER	24-31-11		101		Jun 21/2016	ALL
I	BATTERY BUS	24-31-12		101		Jun 21/2016	ALL
	MAIN DC BUSES						
ı	MAIN DC BUSES	24-32-11		101		Jun 21/2016	ALL
	DC GENERATION SYSTEM AND INDICATIONS						
I	DC VOLTAGE AND CURRENT INDICATIONS	24-33-11		101		Jun 21/2016	ALL
I	ELEC LIGHT AND ALPHANUMERIC DISPLAY	24-33-12		101		Jun 21/2016	ALL
I	DC BUS INDICATION DFDAU	24-33-13		101		Jun 21/2016	ALL
	STANDBY POWER SYSTEM						
I	STANDBY POWER	24-34-11		101		Jun 21/2016	ALL

24-CONTENTS



CHAPTER 24 ELECTRICAL POWER

	Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
	AC EXTERNAL POWER						
I	EXTERNAL POWER	24-41-11		101		Jun 21/2016	ALL
	MAIN 115-VOLT AC POWER DISTRIBUTION						
	115V AC TRANSFER BUS 1	24-51-11		101	1	Mar 14/2016	YT101-YT120
					2	Mar 14/2016	YT101-YT120
I				102	1	Jun 21/2016	YT126-YT133
I					2	Jun 21/2016	YT126-YT133
	115V AC TRANSFER BUS 2	24-51-21		101	1	Mar 14/2016	YT101-YT120
					2	Mar 14/2016	YT101-YT120
I				102	1	Jun 21/2016	YT126-YT133
I					2	Jun 21/2016	YT126-YT133
	GROUND SERVICE 115-VOLT AC POWER DISTRIBUTION	<u>N</u>					
I	115V AC GROUND SERVICE BUS	24-52-11		101	1	Jun 21/2016	ALL
I					2	Jun 21/2016	ALL
	28V AC BUSES						
I	28V AC BUSES	24-53-11		101	1	Jun 21/2016	ALL
I					2	Jun 21/2016	ALL
	115V AC STANDBY BUS						
I	115V AC STANDBY BUS	24-54-11		101		Jun 21/2016	ALL
	DC POWER DISTRIBUTION						
I	28V DC BUSES	24-61-11		101		Jun 21/2016	ALL

24-CONTENTS

D280A451

Page 3 Jun 21/2016



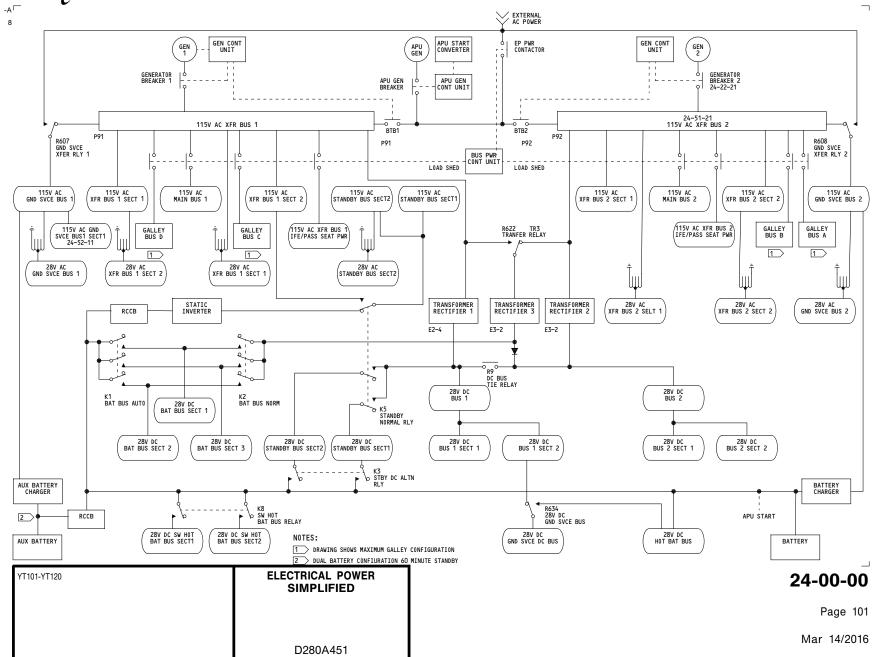
CHAPTER 24 ELECTRICAL POWER

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

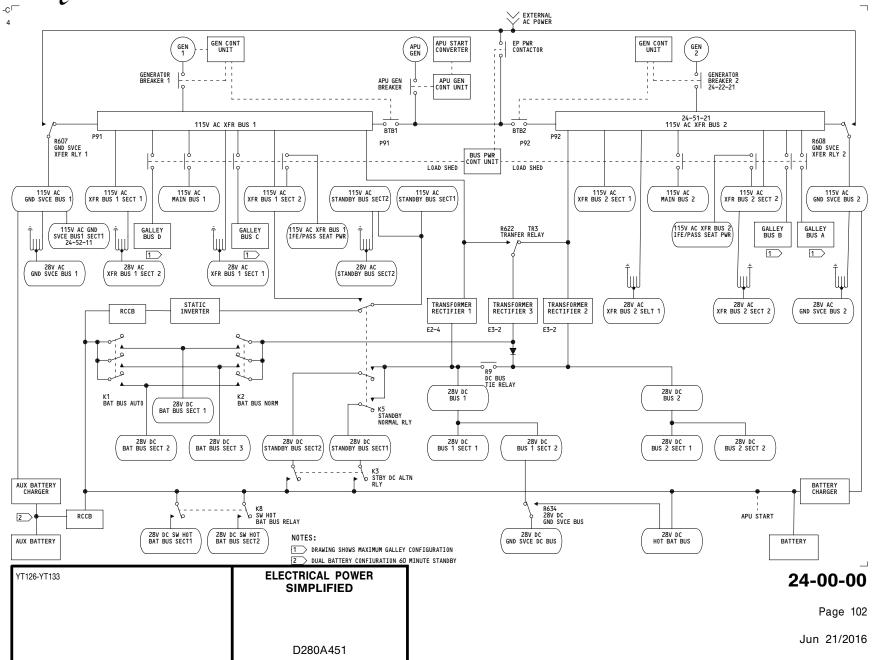
CH-SC-SU	Title
24-00-00	ELECTRICAL POWER SIMPLIFIED
24-00-10	ELECTRICAL POWER UNIT LOCATION
24-41-11	EXTERNAL POWER
24-22-31	GENERATOR CONTROL UNIT APU
24-22-11	GENERATOR CONTROL UNIT NO.1
24-22-21	GENERATOR CONTROL UNIT NO.2
24-21-51	GENERATOR CONTROL UNITS BLOCK (G10, G12, G14)
24-28-31	GENERATOR DRIVE & STANDBY POWER SWITCHING INDICATIO N 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
24-34-11	STANDBY POWER
24-28-22	SWITCHING P5-4
24-23-11	TRANSFER BUS CONTROL NO.1
24-23-21	TRANSFER BUS CONTROL NO.2

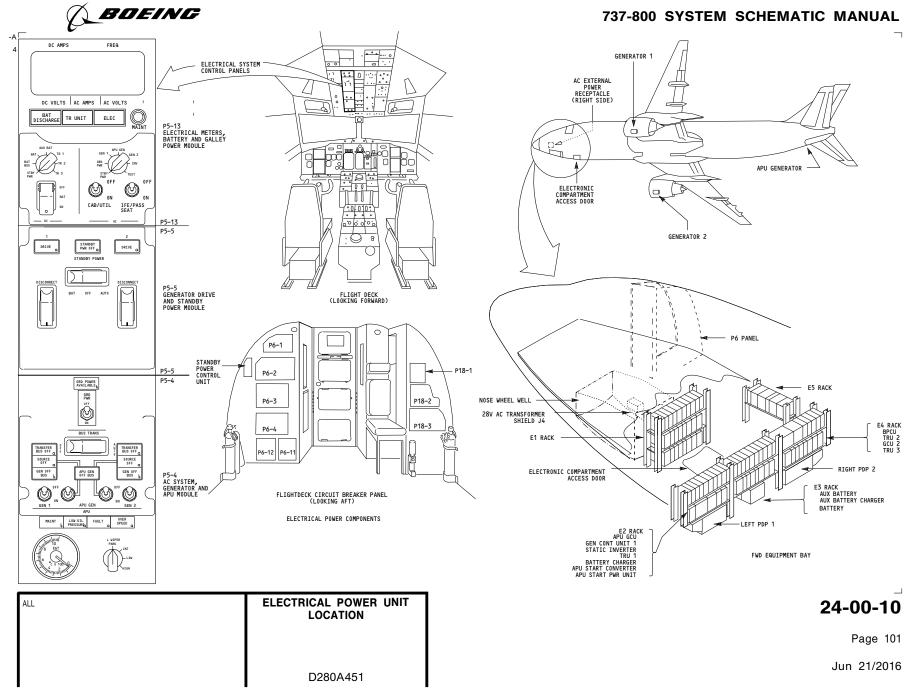
24-ALPHABETICAL INDEX









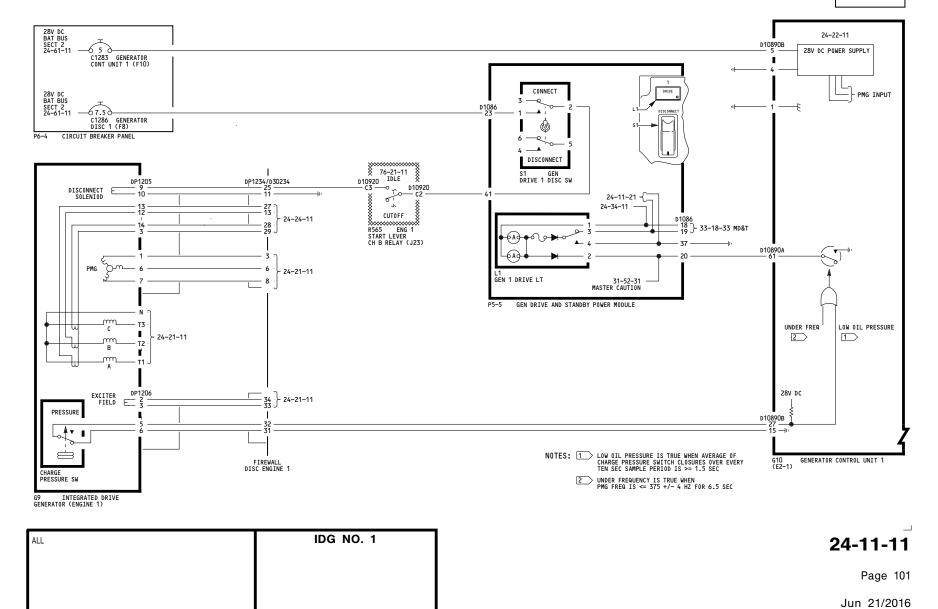




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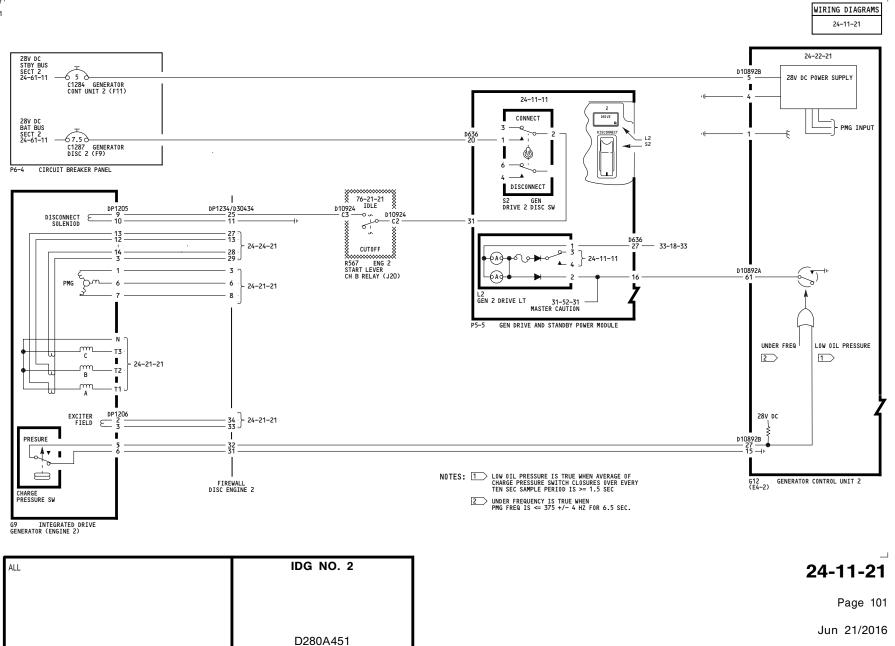
737-800 SYSTEM SCHEMATIC MANUAL

WIRING DIAGRAMS 24-11-11



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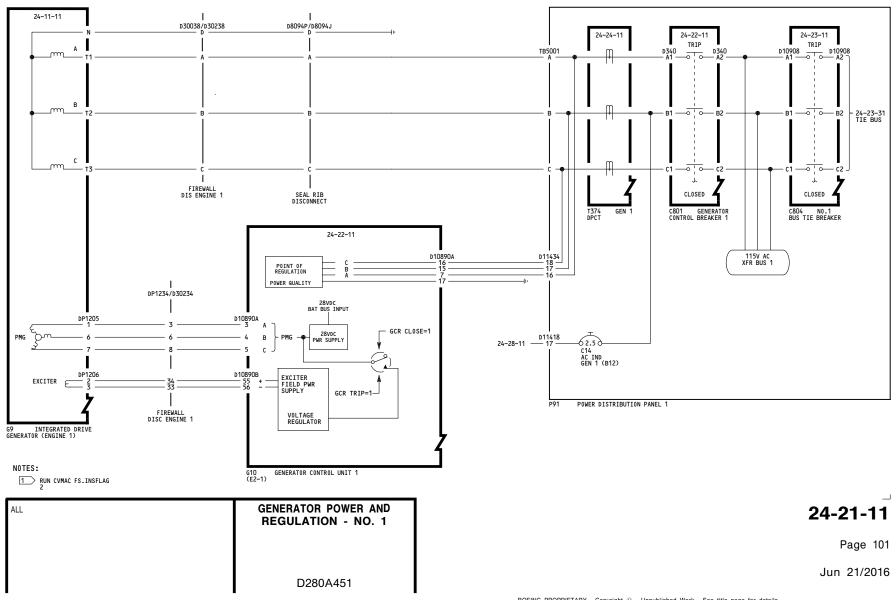




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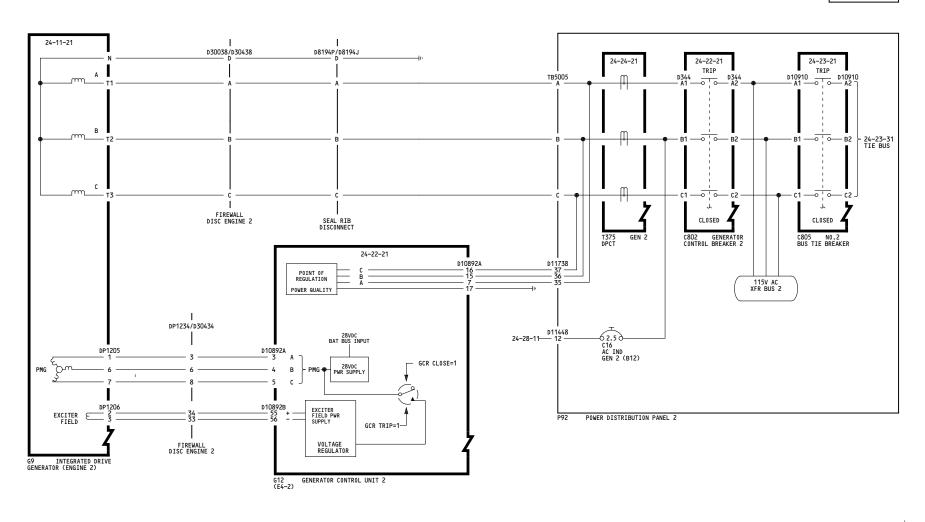




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737-800 SYSTEM SCHEMATIC MANUAL

WIRING DIAGRAMS 24-21-21



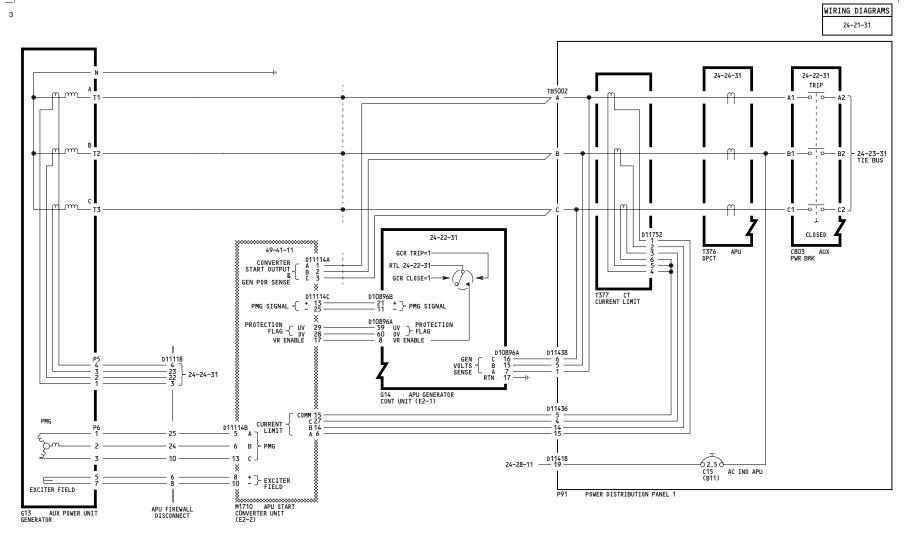
GENERATOR POWER AND REGULATION - NO. 2

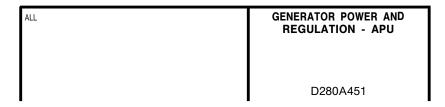
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24-21-21

Page 101







24-21-31

Page 101



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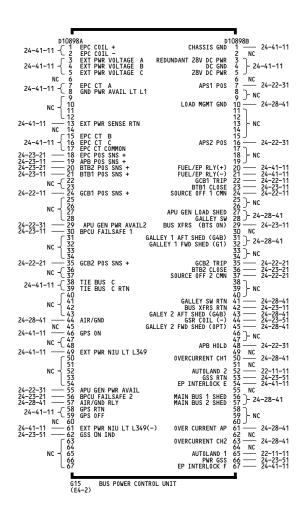
D10890A 24-23-21 NC D10892A D10892B D10896A 24-11-11 24-11-21 24-23-11 TIE BUS C CHASSIS GROUND TIE BUS C CHASSIS GROUND 24-22-31 TIE BUS C CHASSIS GND 24-22-31 NC }- NC } NC REDUNDANT 28V DC POWER 28VDC RTN 28VDC POWER PMG A 28VDC RETURN 28VDC POWER 28VDC RETURN 28VDC POWER 24-22-31 24-21-11 -24-21-21 -NC PMG PMG AIR/GND BTB CLOSE COMMAND AIR/GND BTB CLOSE COMMAND AIR/GND BTB CLOSE COMMAND - 24-22-31 GEN VOLTS SENSE A VR ENABLE 24-21-11 24-21-21 POR A 24-21-31 -{ NC NC -{ NC 24-23-11 24-23-11 NC 24-23-21 -24-22-31 24-22-31 TIE BUS C RTN READY TO LOAD (RTL) TIE BUS C RTN TIE BUS C RTN NC PMG SIGNAL -**— 24-21-31** NC · NC NC. NC 24-22-11 24-11-11 ____ 24-22-21 ____ 24-11-21 AIR/GND RTN AIR/GND RTN - 24-22-31 14 15 16 17 18 19 20 21 22 23 { 15 16 17 — 18 15 16 17 — 18 15 16 17 — 18 POR B POR B POR C GEN VOLTS SENSE B GEN VOLTS SENSE C NC 24-23-21 NC 24-21-11 -24-21-21 24-21-31 POR C POR COMMON GCB SENSE + APB POSN EPC POSN POR COMMON GCB1 SENSE + GEN VOLTS SENSE COMMON APB SENSE + BPCU FAILSAFE 24-23-11 BPCU FAILSAFE 24-22-11 -24-22-21 -24-22-31 -24-22-31 NC 24-22-11 -{ 19 20 APB POSN EPC POSN 24-22-21 -{ 19 20 19 - 20 EPC POSN PMG SIGNAL + 24-21-31 NC -{ 21 1 --- 23 NC -{ NC -{ NC APS1 POS APS2 POS OVERCURRENT 24-22-21 — 24-22-31 -24-22-11 — GCB1 CLOSE GCB2 CLOSE APB CLOSE }- 24-22-31 ____ 24-28-41 OVERCURRENT OVERCURRENT - 24-28-41 **— 24-28-41** NC 26 27 28 29 26 27 28 29 30 31 26 27 28 30 31 33 33 34 35 36 37 38 40 41 42 43 NC 24-11-11 24-11-21 + LOP + LOP NC NC 28 29 31 32 33 35 37 38 39 40 BTB1 POSN 24-22-11 BTB2 POSN _ 24-22-21 24-22-31 APU GEN PWR AVAIL2 APB SNS 30 31 32 33 34 35 36 37 38 39 NC 24-22-21 — 33 NC 34 24-22-21 - 36 NC 37 24-24-21 - 38 NC 40 NC 24-22-21 NC - NC - NC ENG2 RTL 24-22-31 -{ 35 NC 37 24-24-31 -{ 38 NC 40 APB TRIP APB COMMON GCU POSITION APB HOLD OFF APU GEN PWR AVAIL GCB1 TRIP COMMAND — 24-22-11 GCB TRIP COMMAND — 24-22-21 24-22-31 DP GCB A DP GCB B DP GCB A DP GCB B 41 42 43 44 45 46 47 41 42 43 24-24-21 -{ 41 24-22-21 --- 43 DP GEN A DP GEN B FIRE SWITCH + DP GEN A DP GEN B FIRE SWITCH S10 + 41 42 43 24-24-31 NC NC. 24-22-21 -24-22-31 FIRE SWITCH S16 + NC -{ 44 45 NC -{ 44 45 24-22-11 -SOURCE OFF LT L7 24-22-21 -SOURCE OFF LT L3 CURRENT METERING + CURRENT METERING + - 24-28-11 - 24-28-11 CURRENT METERING + - 24-28-11 NC NC 48 } NC 48 49 50 51 52 53 NC -SOURCE OF COMMAND 24-22-11 SOURCE OFF COMMAND 24-22-21 50 51 52 53 54 50 50 }- 24-22-31 DP GCB C
DP GCB COMMOM
DP GEN COMMON
DP GEN C DP GCB C
DP GCB COMMOM
DP GEN COMMON
DP GEN C DP GCB C
DP GCB COMMOM
DP GEN COMMON
DP GEN C NC - NC 24-24-11 52 - 24-23-11 55 - 24-21-11 57 - NC 59 - NC 59 - 24-28-1 24-24-21 -52 J 53 }- 24-23-21 55 }- 24-21-21 24-24-31 BTB2 COMMON BTB2 TRIP BTB1 COMMON BTB1 TRIP 24-22-21 <u>NC</u> 24-22-11 -FIRE SWITCH -FIRE SWITCH -55 24-22-31 NC. 24-22-11 TRANS BUS OFF LT L6 24-22-21 TRANS BUS OFF LT L2 NC NC NC -NC -PROT FLAG UV PROT FLAG OV 59 60 ____ 24-28-11 24-21-31 24-28-11 NC CURRENT METERING -CURRENT METERING -CURRENT METERING -- 24-28-11 61 NC 62 63 - 24-22-11 65 NC 66 NC 67 NC 24-23-1 61 NC 62 63 24 65 NC 66 NC 61 62 63 64 65 66 NC 24-11-11 -IDG DRIVE LT L1 RTN 24-11-21 -IDG DRIVE LT L2 RTN 61 63 64 65 66 GCS1 ON GCS1 RTN GCS1 OFF GCS2 ON GCS2 RTN GCS2 OFF APS1 ON APS RTN APS1 OFF 62 63 64 65 66 67 24-22-21 24-22-31 NC NC NC · NC 24-23-11 BTB1 CLOSE BTB2 CLOSE 24-23-21 G10 (E2-1) GENERATOR CONTROL UNIT 1 GENERATOR CONTROL UNIT 2 G14 (E2-1) APU GENERATOR CONTROL UNIT (E4-2)

GENERATOR CONTROL UNITS BLOCK (G10, G12, G14)

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24-21-51

Page 101

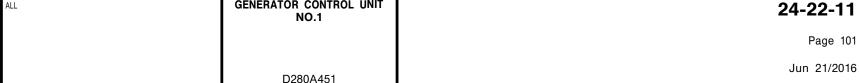


ALL	BUS POWER CONTROL UNIT BLOCK (G15)
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24-21-52

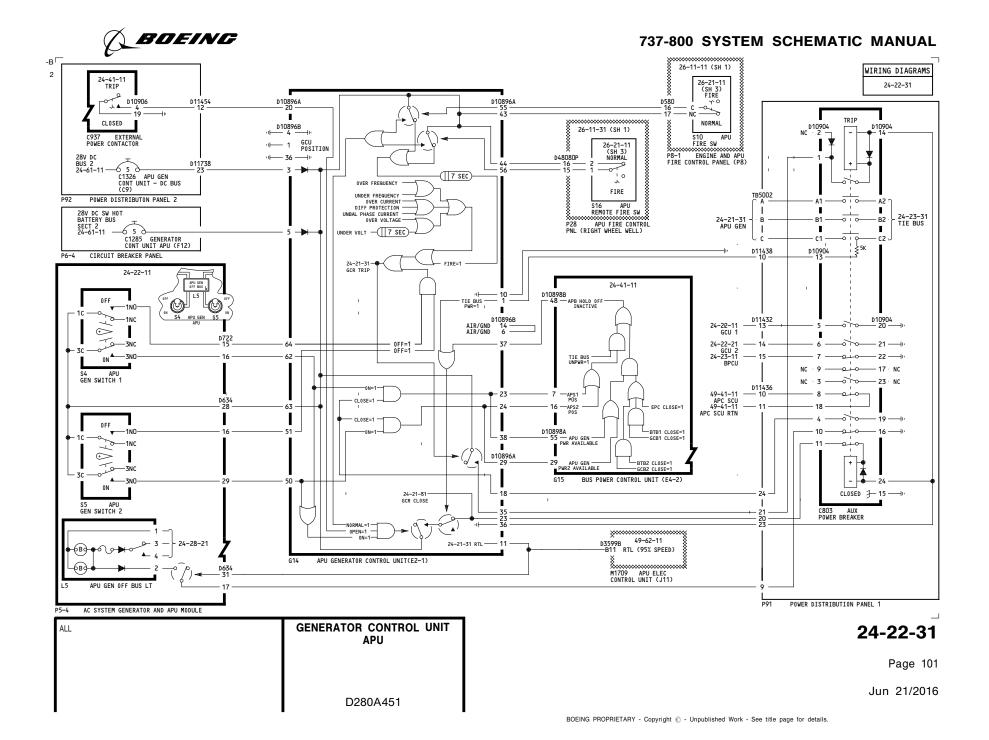
Page 101

BOEING 737-800 SYSTEM SCHEMATIC MANUAL WIRING DIAGRAMS 24-22-11 24-22-11 24-23-11 -B) D11418 TRIP D10908 D10908 33-18-33 (B) €0 20 SEC CLOSED D10890B D11432 24-23-11 TIE BUS SENSE ------31-62-24 (SH 1) TIE BUS SENSE D10890A GEN OFF BUS LT 28VDC = RUN D10890A D11438 C804 BUS TIE BREAKER 1 OPEN = OUT M1809 DISPLAY ELECTRONIC UNIT 2 (E3-3) APB TRIP=1 GCB TRIP=1 EPC TRIP=1 24-22-31 TRIP -(A) +00 ► 0 D11432 D10904 D10904 GCB TRIP=1 OPEN = OUT CLOSED BTB CLOSE=1 SOURCE OFF LT M1808 DISPLAY ELECTRONIC UNIT 1 (E3-3) GCB TRIP=1 TIE BUS NOT PWR =1 C803 AUX POWER BREAKER ₩ 24-41-11 D722 TRIP BTB TRIP=1 D11434 D10906 n10906 GCB CLOSE=1 TRIP D340 2 -- 18 }_ 31-52-32 - 17 } MASTER CAUTION OVER VOLTAGE OR UNDER VOLTAGE - (A) • (O) ► 24-28-11 CLOSED OVER FREQUENCY OF UNDER FREQUENCY D10596 — 28 XFER BUS 1 FAULT C937 EXT POWER CONTACTOR PHASE SEQ ERROR =1 OVER FREQUENCY TRANSFER BUS OFF LT POWER DISTRIBUTION PANEL 1 L6 P92 UNDER FREQUENCY -SHORTED ROTATING DIODE P5-13 ELEC METER BATT/GALLEY PWR MOD 26-21-11 (SH 1) OVER CURRENT TB5001 24-28-21 DIFF PROTECTION-UNBAL PHASE CURRENT FIRE — 33-18-33 MD&T ≫≪ 24-21-11 GEN 1 — B2 - 24-21-11 XFR BUS 1 D576 — 16 -OVER VOLTAGE **√** 0 ____ 32-09-11 (SH 2) UNDER VOLT - 7 SEC 5K ¦ NORMAL D11138 D10890B --- 6 --- 28VDC S8 FIRE SW ENG1 0FF - 20 NC AIR=1 QUALITY OK P8-1 ENGINE AND APU FIRE CONTROL PANEL (P8) APB TRIP=1 D11432 ON GND &..... PSEU FIRE=1 — 7 SEC 24-41-11 D10898A _______17 NC -5NC D10890B D10898B SWD APS OFF= APB CLOSE=1 SWD APS ON=1 SWD APS ON=1 GCB CLOSE=1 TIE BUS HOT=1 SWD EPS ON=1 GCB CLOSE=1 TIE BUS HOT=1 GEN 1 S3 GEN CONT SWITCH 24-21-11 24-22-11 CLOSED 15-15 AC SYSTEM GENERATOR AND APU MODULE GCR CLOSE BUS POWER CONTROL UNIT (E4-2) C801 GENERATOR 1 CONTROL BREAKER D10890A GCB CLOSE 28VDC POWER SUPPLY GENERATOR CONTROL UNIT 1 (E2-1) POWER DISTRIBUTION PANEL 1 **GENERATOR CONTROL UNIT** ALL

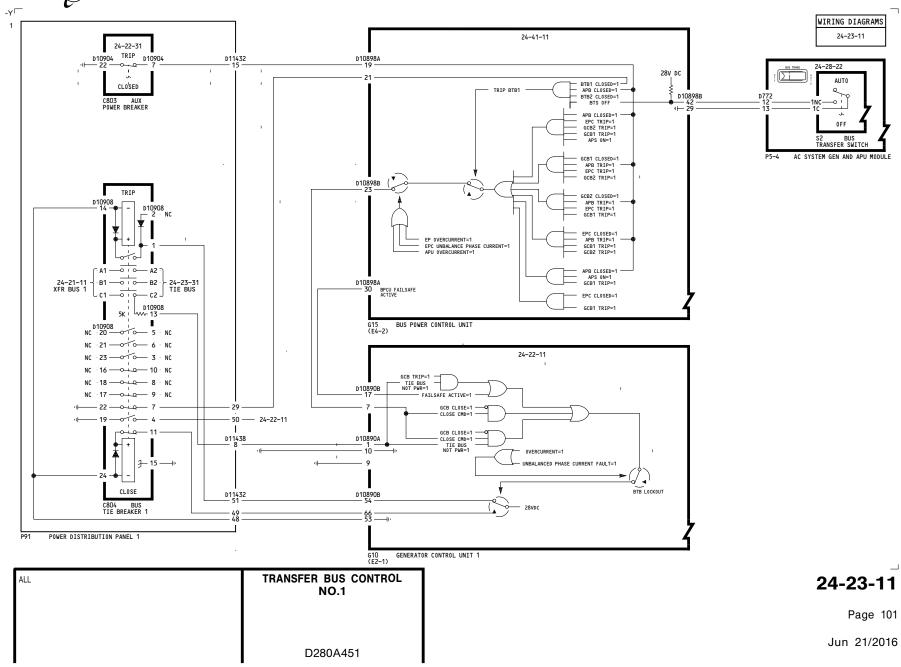


BOEING 737-800 SYSTEM SCHEMATIC MANUAL WIRING DIAGRAMS 24-22-11 24-23-21 24-22-21 TRIP D730 D11448 -(B)-• D10910 D10910 +6B) | 600-POWER QUALITY RTL D10892B D11454 CLOSED 20 SEC 5K 31-62-14 D10892A D11738 — 20 — 24-23-21 TIE BUS SENSE (SH 1) D3973D D10892A TIE BUS SENSE 28VDC = RUN GEN OFF BUS LT C805 BUS OPEN = OUT D11454 M1808 DISPLAY ELECTRONICS UNIT 1 (E3-1) GCB TRIP=1 APB TRIP=1 BTB TRIP=1 TRIP 31-62-24 (SH 1) D3975D 28VDC = RUN H9 — D10906 D10906 OPEN = OUT BTB CLOSE=1 24-22-31 TIE BUS NOT PWR=1 -TRIP CLOSED (A) ♥6 (O **>** (GCB TRIP=1 M1809 DISPLAY D11432 D10904 ~~~ C937 EXT POWER CONTACTOR ELECTRONICS UNIT 2 (E3-1) RTR TRIP=1 CLOSED 8 31-52-32 19 MASTER CAUTION SOURCE OFF LT OVER VOLTAGE OR UNDER VOLTAGE OVER FREQUENCY OR UNDER FREQUENCY TRIP 24-28-11 C803 POWER BREAKER D344 29 XFER BUS 2 PWR DISTRIBUTION PNL 1 OVER FREQUENCY UNDER FREQUENCY SHORTED ROTATING DIODE P5-13 ELEC METER (A) **♦**60 **>**10 BATT GALLEY PWR MDL OVER CURRENT -DIFF PROTECTION -UNBAL PHASE CURRENT -TB5005 26-21-11 (SH 1) 24-21-21 GEN 2 TRANSFER BUS OFF LT - 24-21-21 XFR BUS 2 FIRE OVER VOLTAGE D578 -- 16 --24-28-21 UNDER VOLT - 7 SEC 32-09-12 (SH 2) D344 — 13 ➣ 24-21-21 D344 NORMAL D10988 D10892B GCR TRIP <u>59</u> ENG2 - 23 NC FIRE SW AIR=1 POWER QUALITY OK TRANSFER BUS OFF Q ENGINE AND APU SOURCE ON GND NC APB TRIP=1 D11454 GEN OFF M2061 PSEU \otimes 24-41-11 - FIRE=1 - 7 SEC D10898A ______17 NC D10892B D10898B SWD APS OFF=1 -NORMAL=1-SWD APS ON=1 GCB CLOSE=1 TIE BUS HOT=1 RTL A — SWD EPS ON=1 — GCB CLOSE=1 S6 GEN 2 CONT SWITCH TIF BUSPHOT=1 CLOSE 1 15 -BUS POWER CONTROL UNIT (E4-2) P5-4 AC SYSTEM GENERATOR AND APU MODULE D10892A C802 GENERATOR 2 CONTROL BREAKER GCB TRIP GCB CLOSE 28VDC POWER SUPPLY G12 (E4-2) GENERATOR CONTROL UNIT 2 POWER DISRIBUTION PANEL 2 **GENERATOR CONTROL UNIT** ALL 24-22-21 NO.2 Page 101 Jun 21/2016

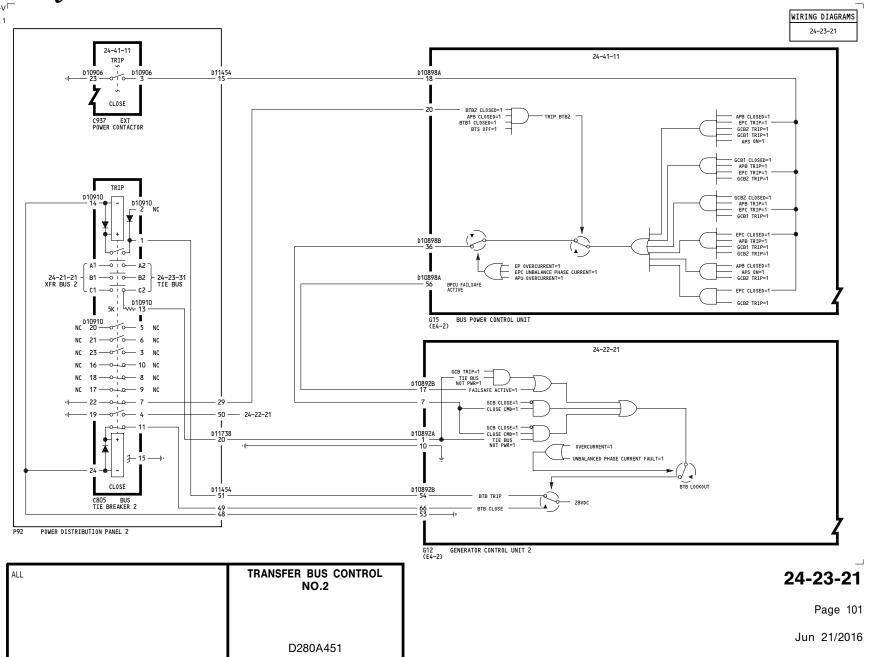
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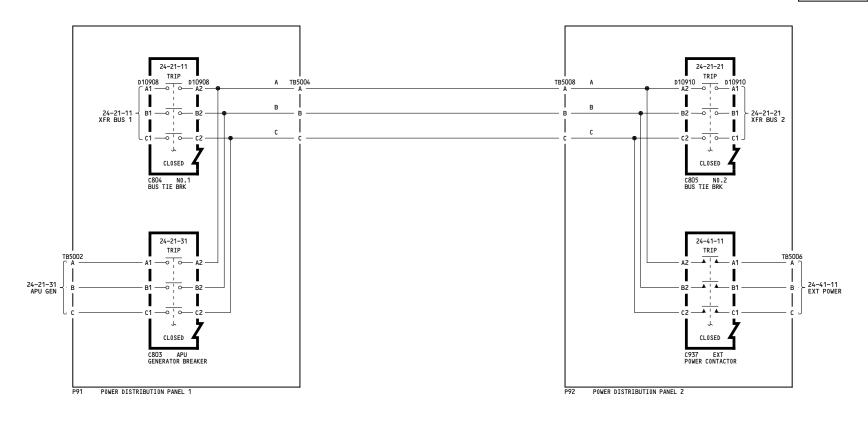








WIRING DIAGRAMS 24-23-31



ALL	AC TIE BUS
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24-23-31

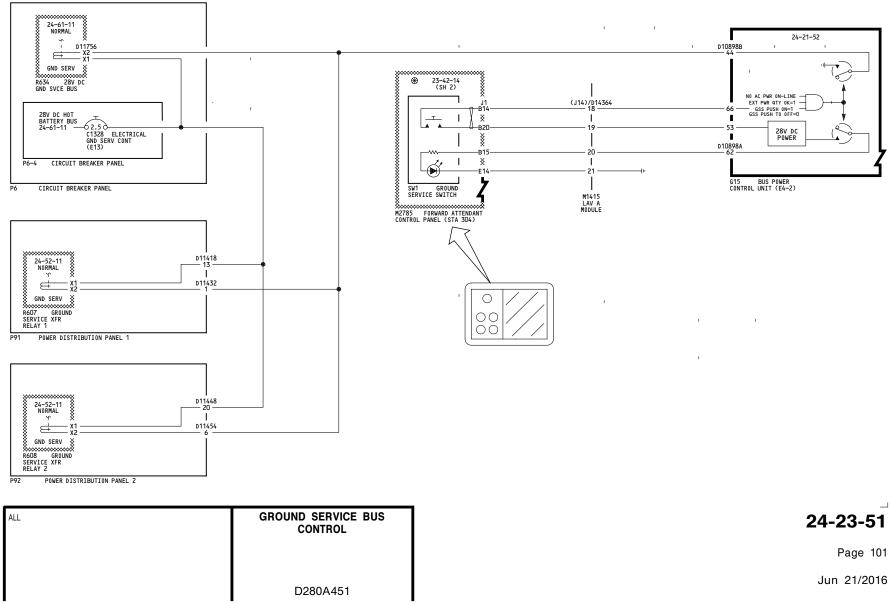
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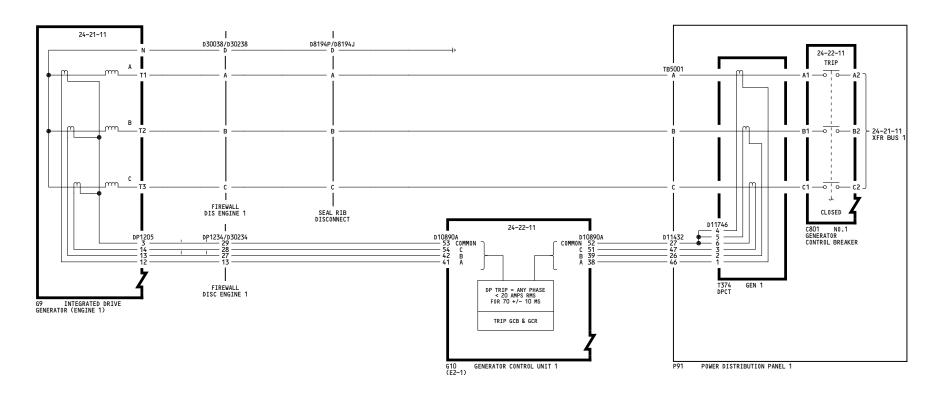
737-800 SYSTEM SCHEMATIC MANUAL

WIRING DIAGRAMS 24-23-51





WIRING DIAGRAMS
24-24-11



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24-24-11

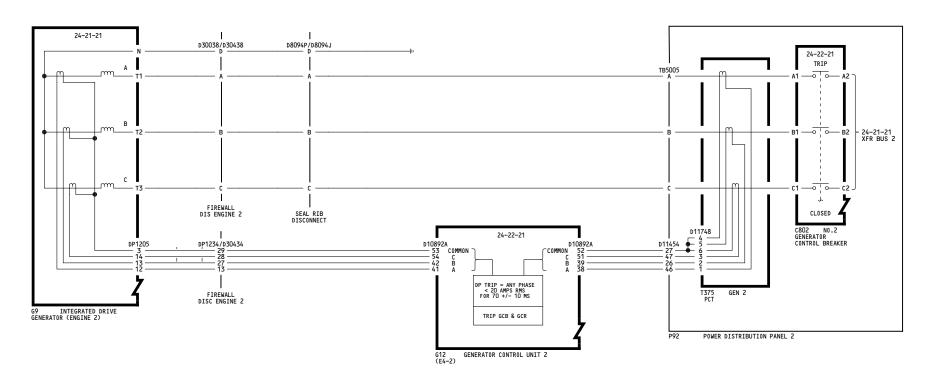
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737-800 SYSTEM SCHEMATIC MANUAL

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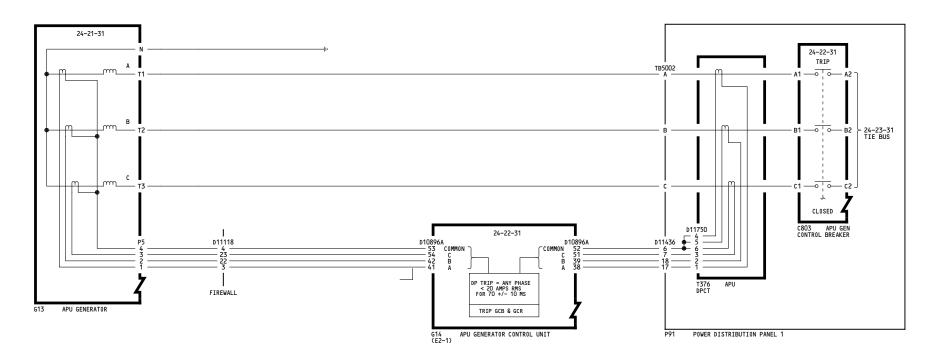
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24-24-21

Page 101



WIRING DIAGRAMS
24-24-31



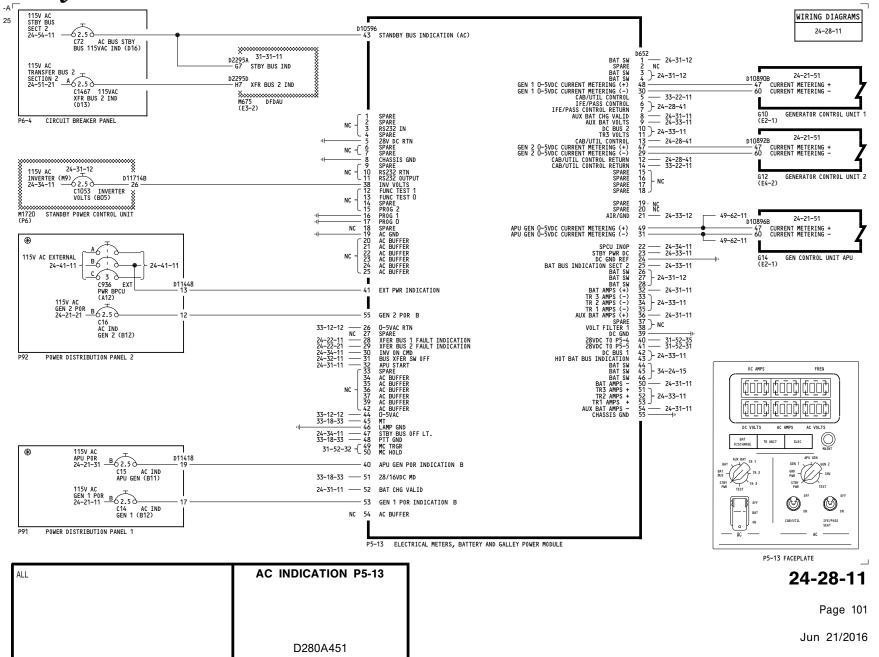
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24-24-31

Page 101

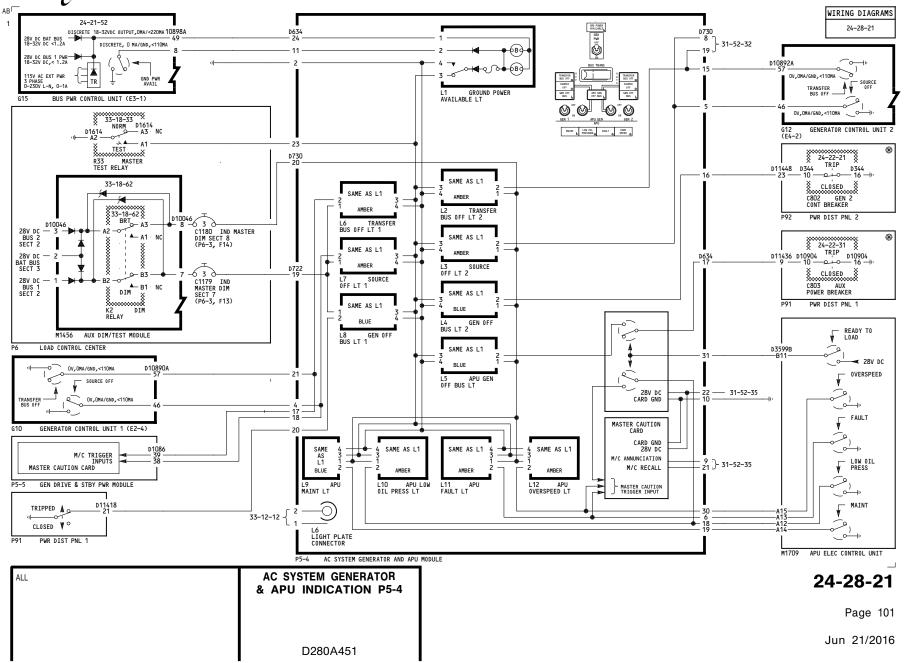
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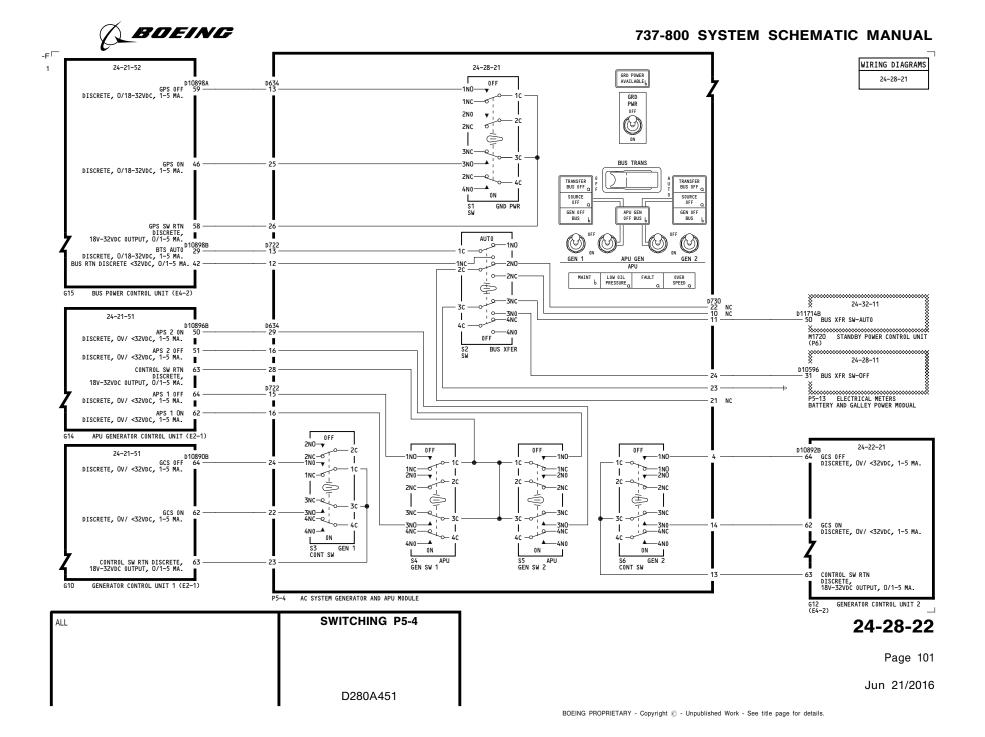
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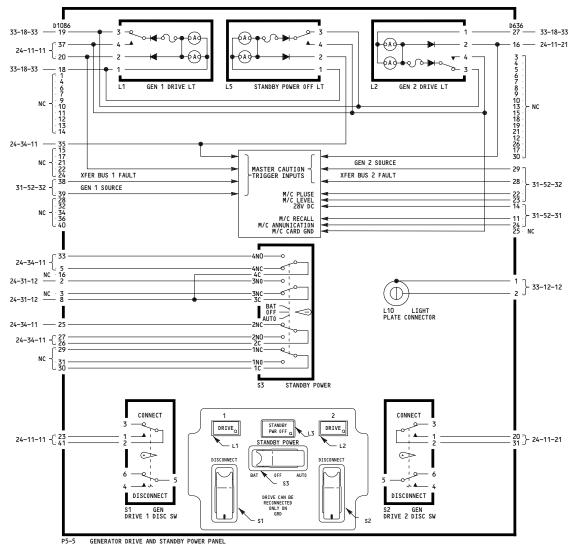
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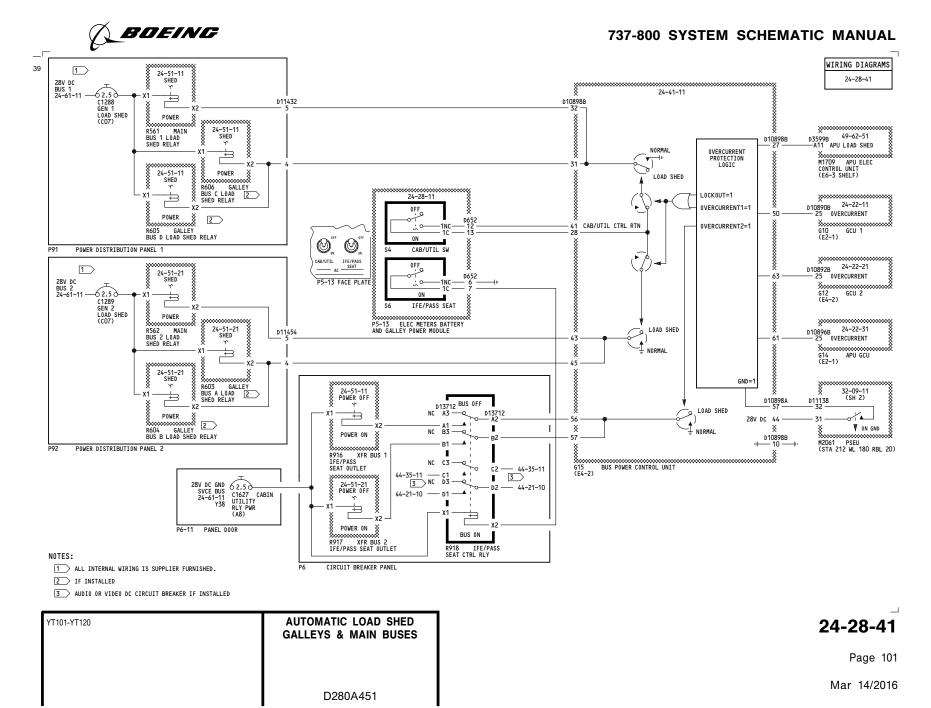


GENERATOR DRIVE & STANDBY
POWER SWITCHING INDICATIO
N P5-5

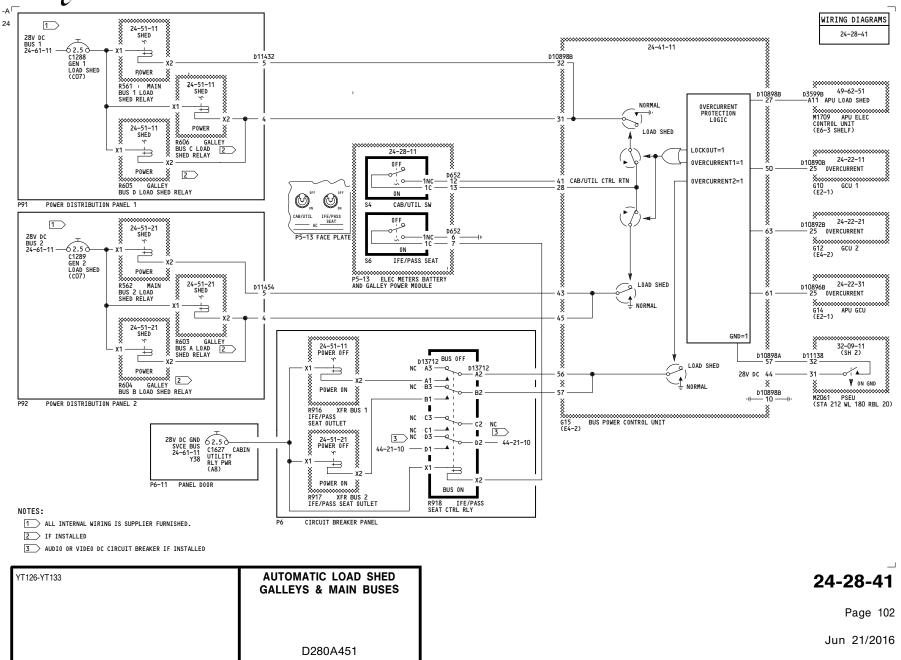
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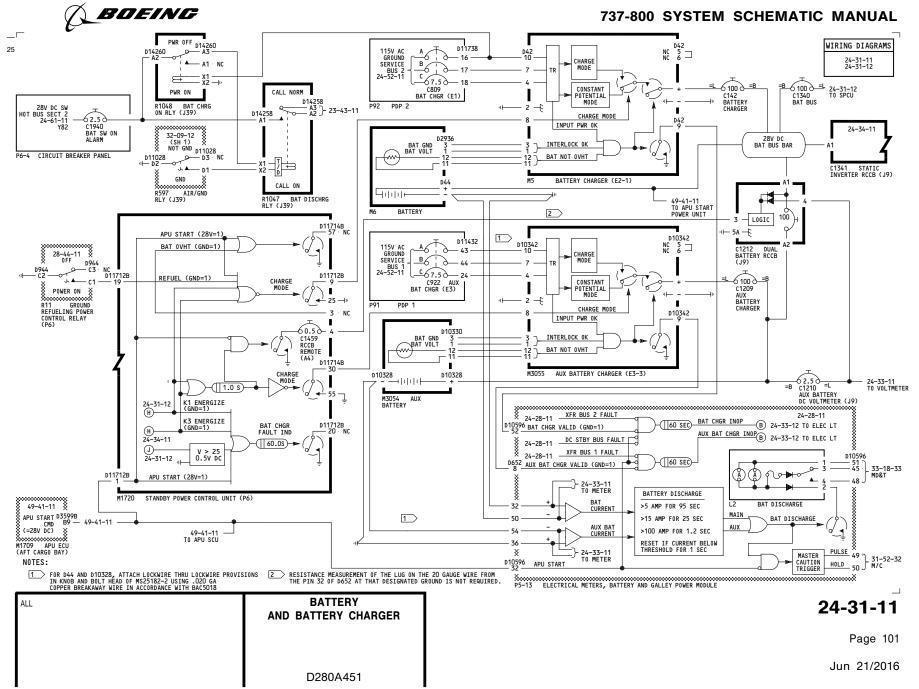
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Page 101







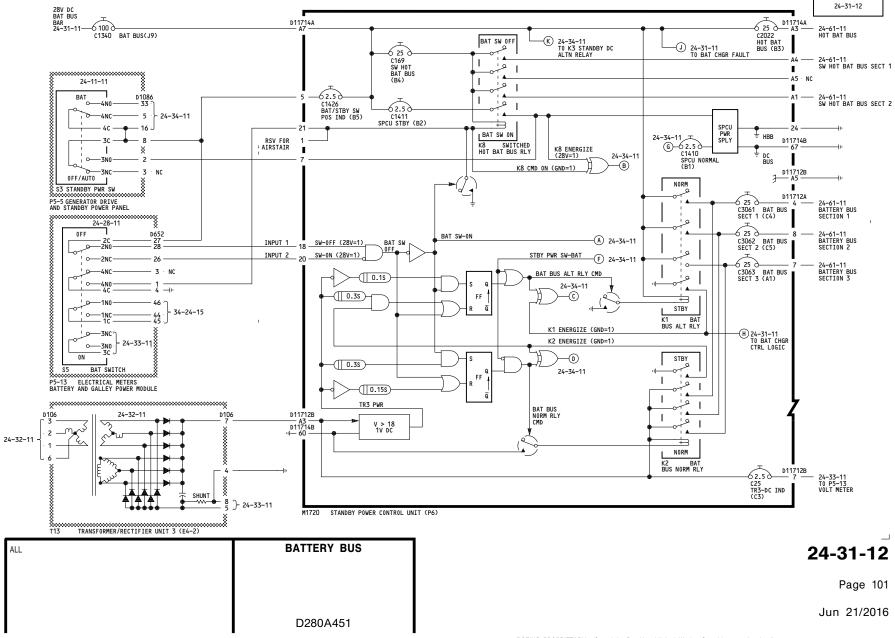


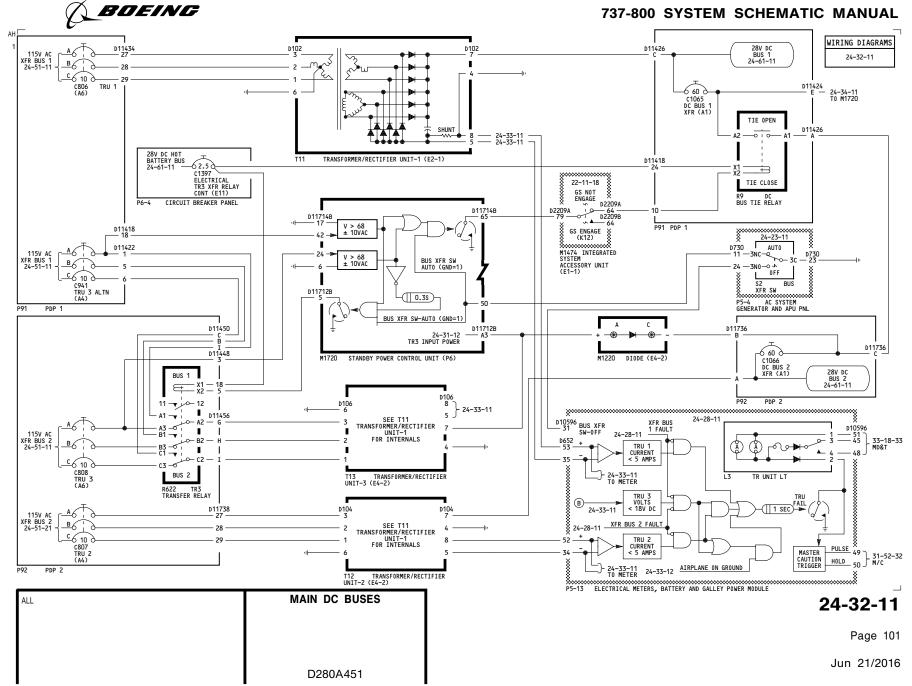


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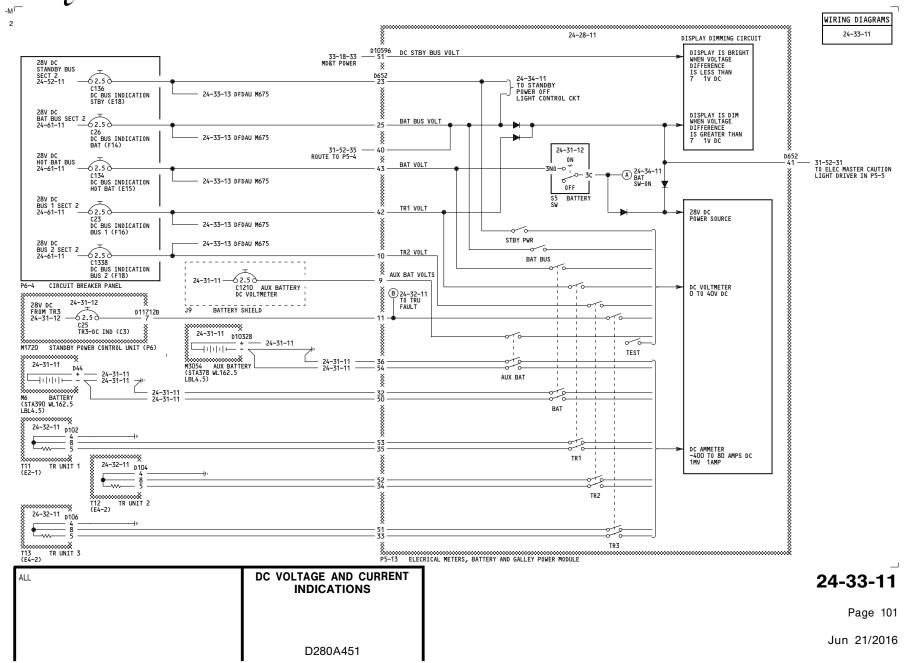
737-800 SYSTEM SCHEMATIC MANUAL

WIRING DIAGRAMS

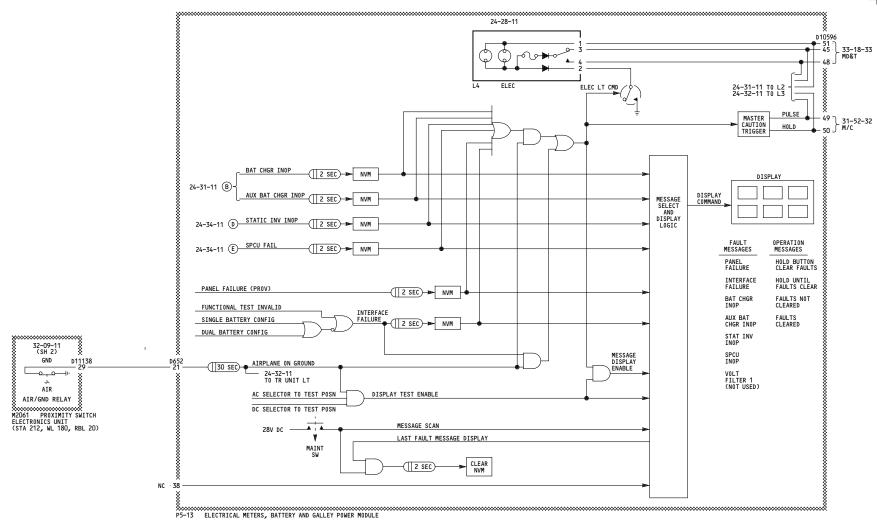












ALL ELEC LIGHT AND ALPHANUMERIC DISPLAY

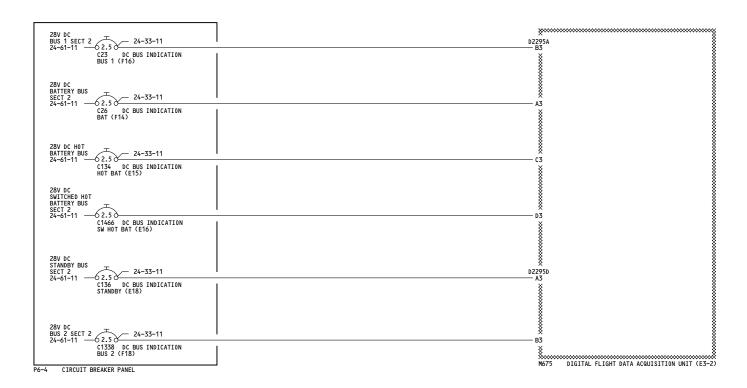
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Page 101

Jun 21/2016

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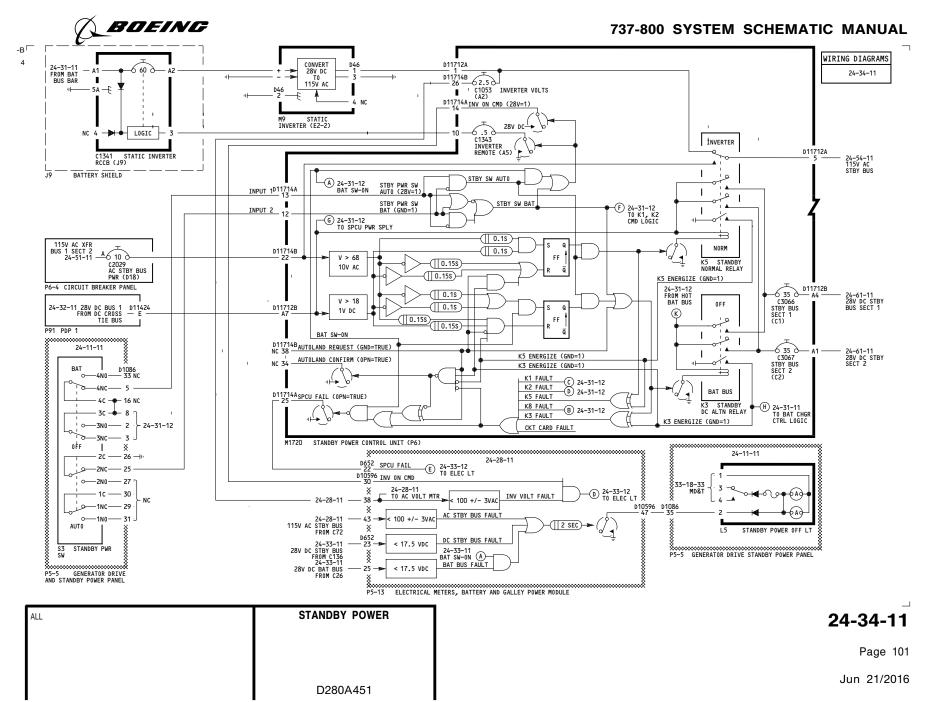


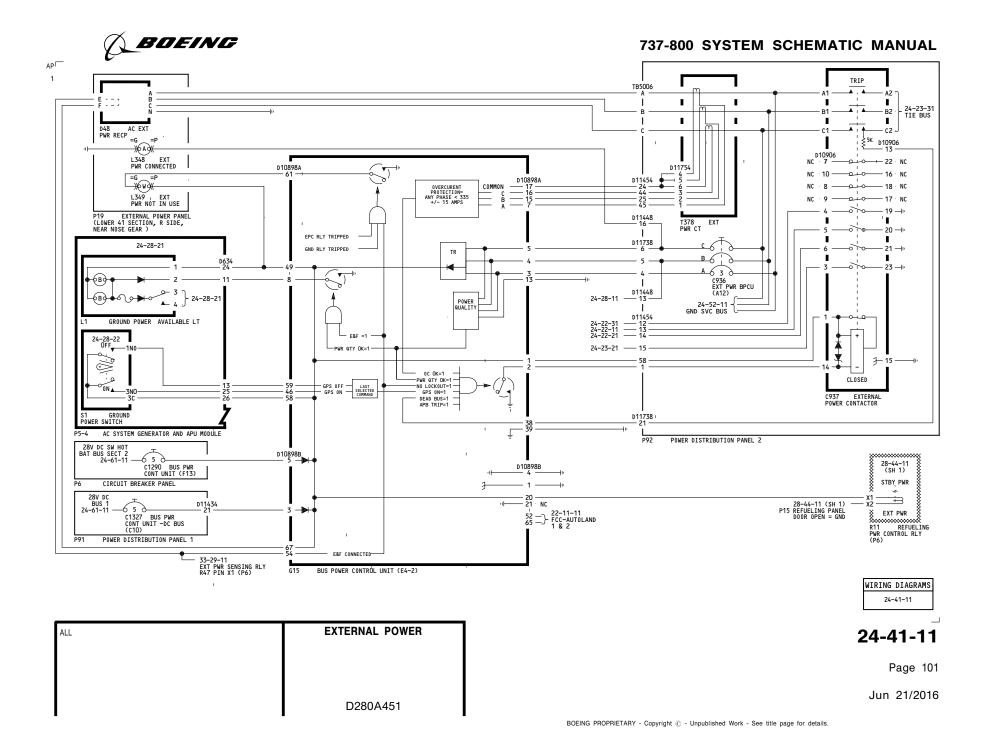
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Page 101

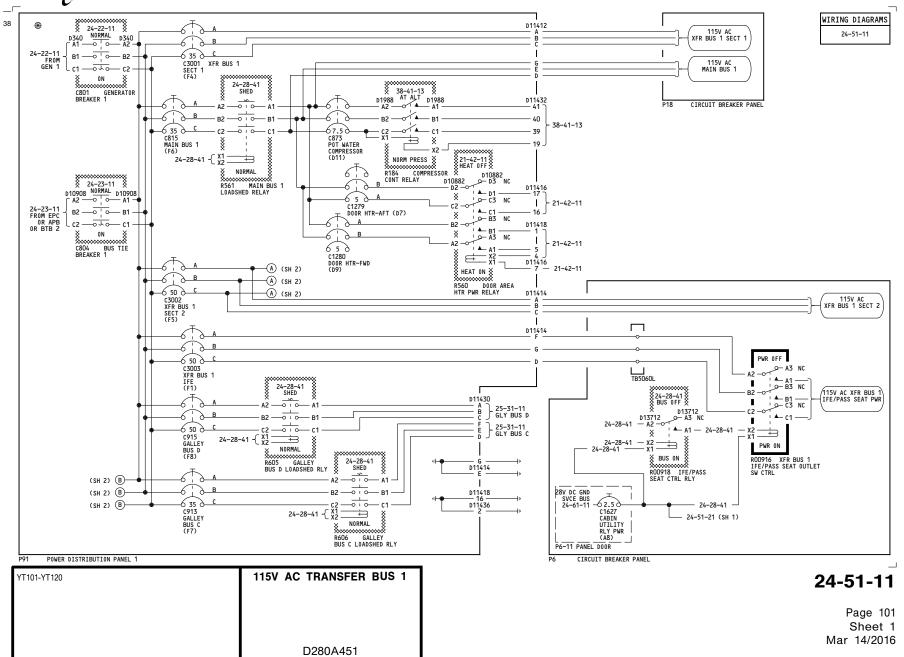
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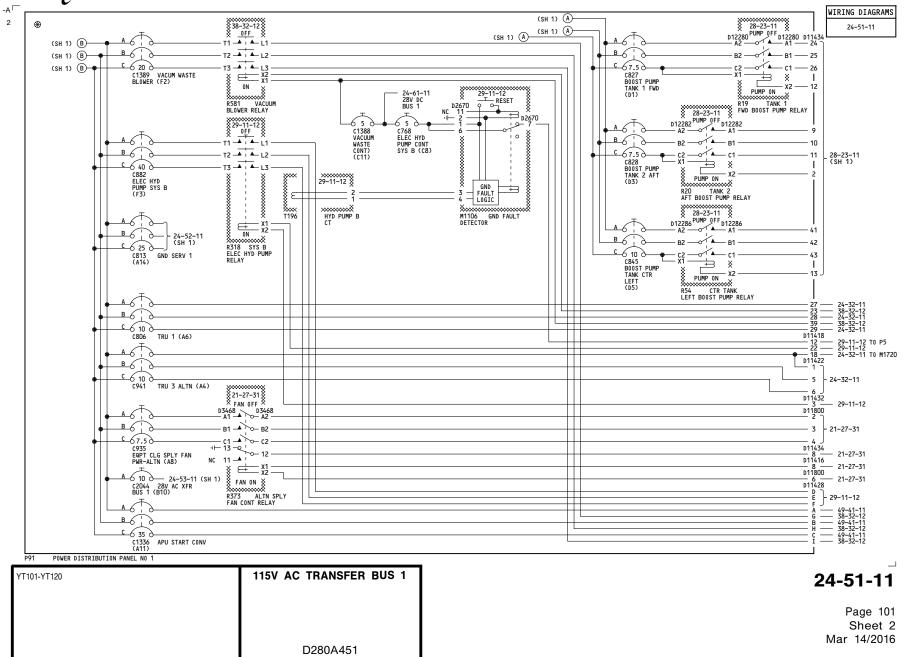




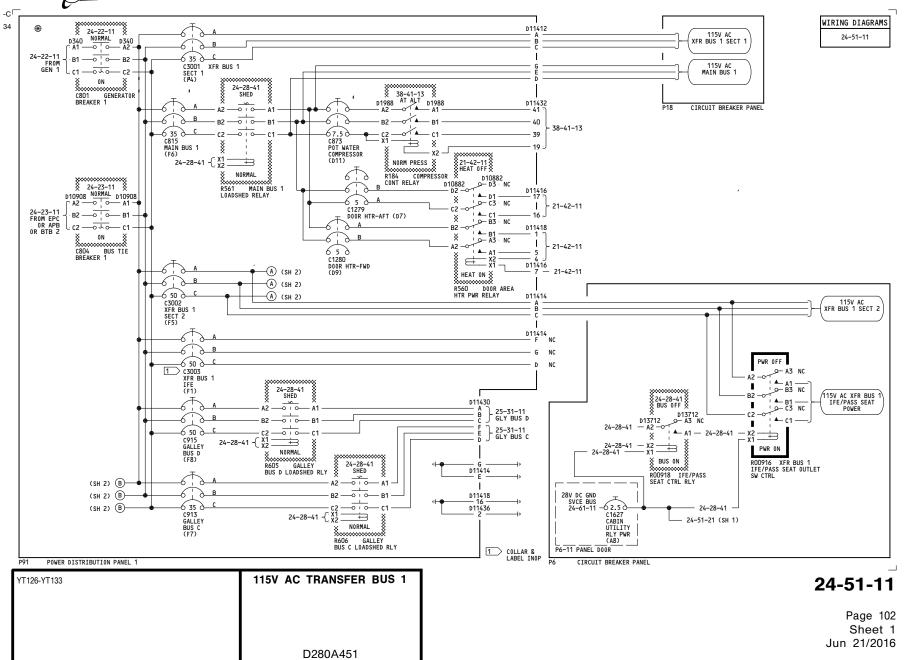




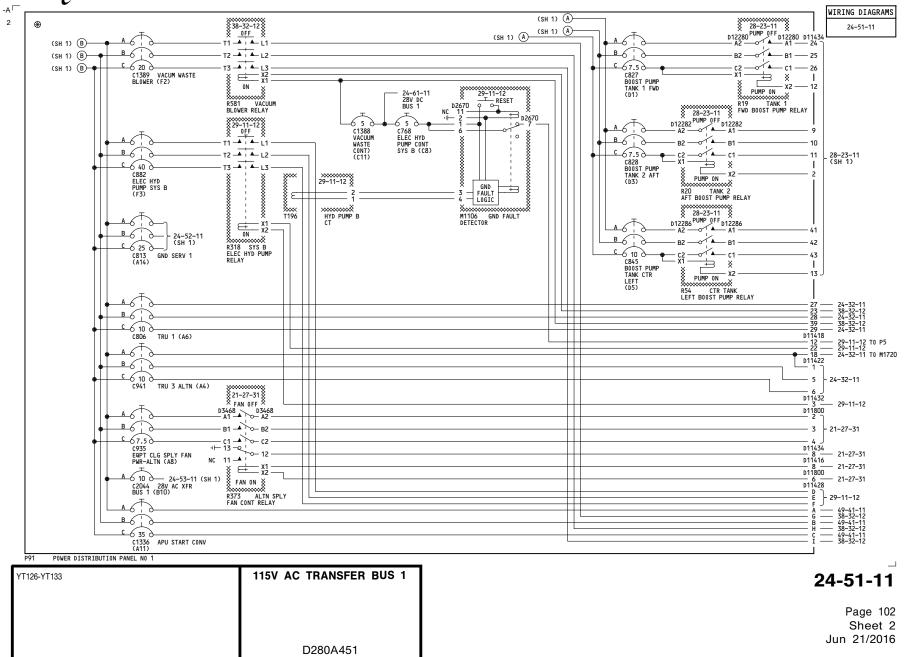




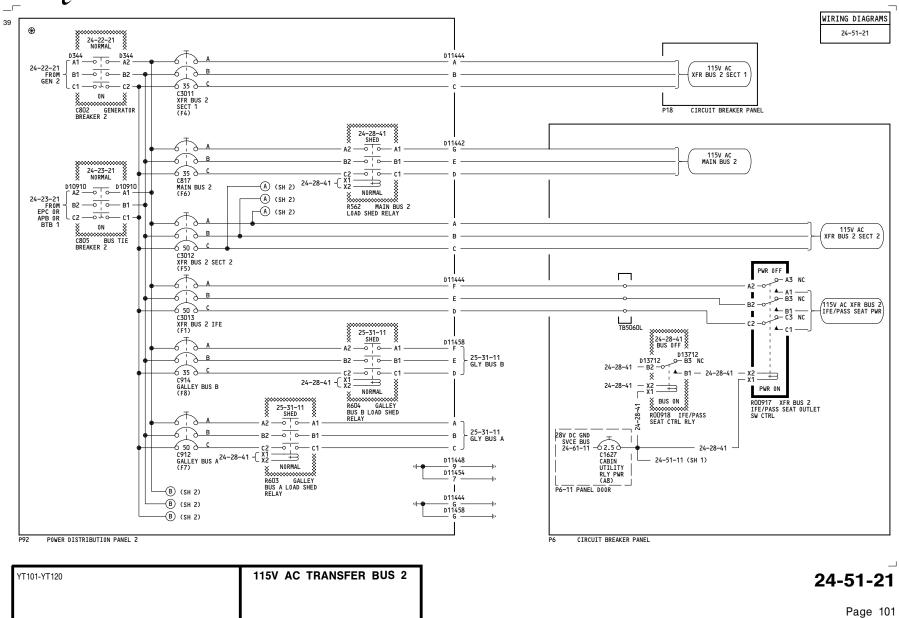










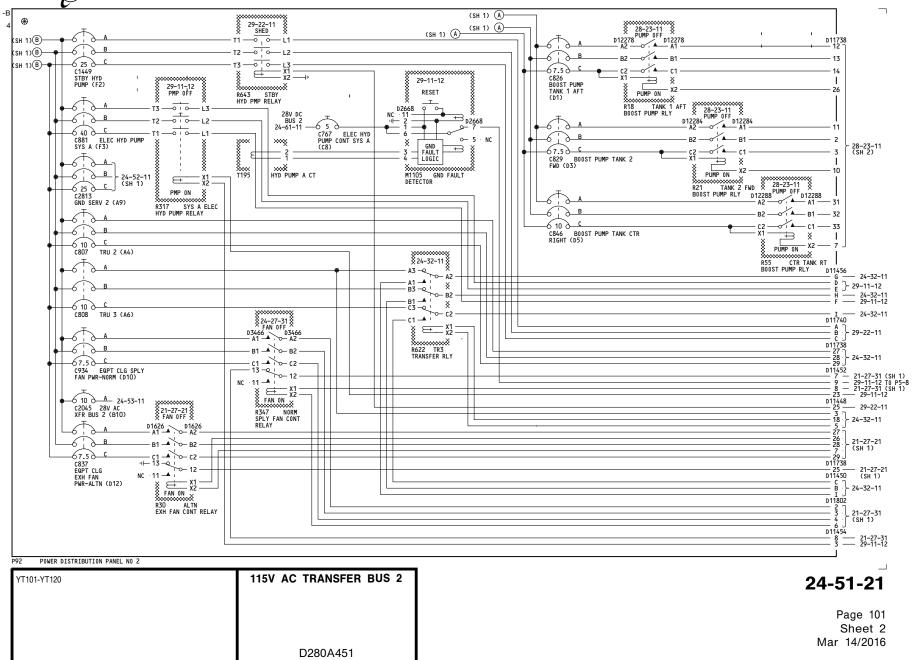


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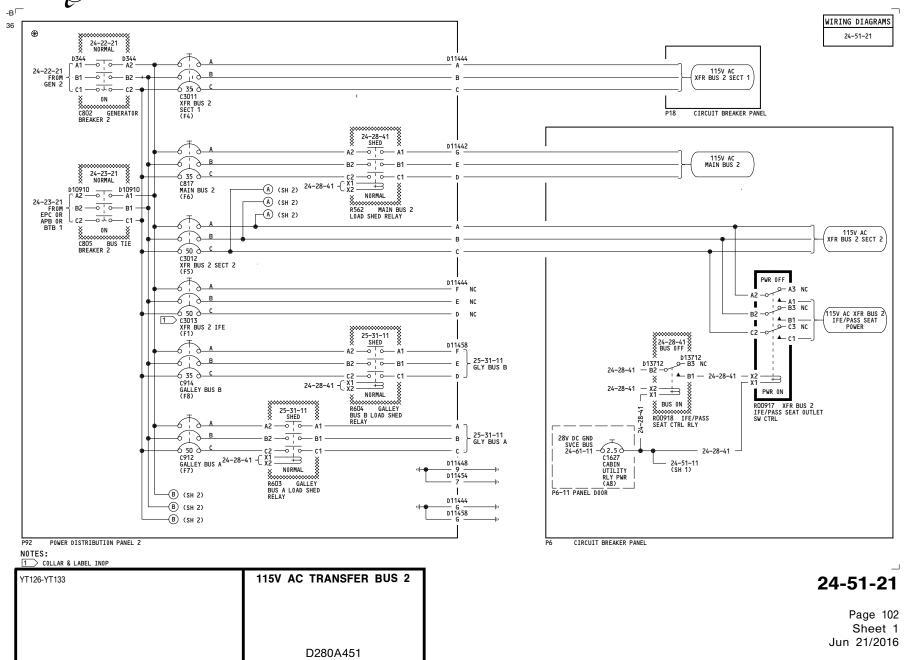
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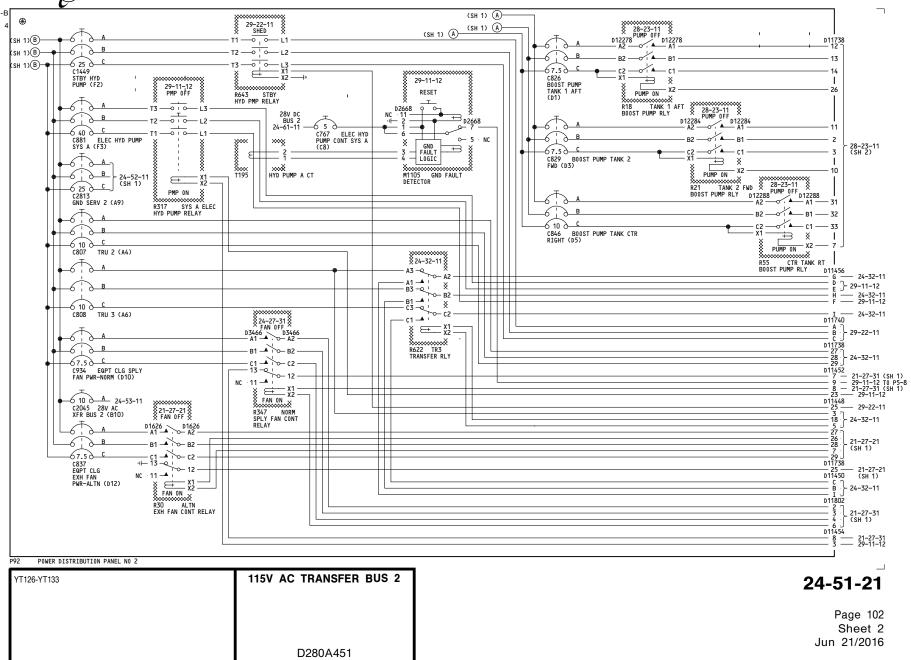




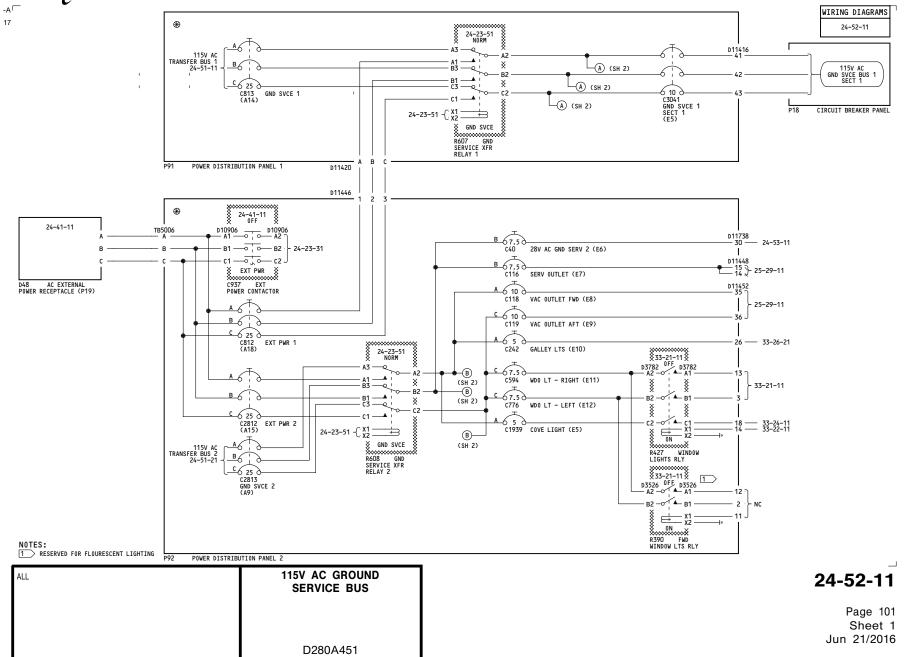










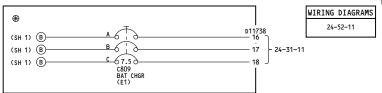


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-A * 44 D11432 (SH 1) (A)-(SH 1) (A)-24-31-11 AUX BAT CHARGER (SH 1) (A) (67.50 C922 (E3) AUX BAT CHGR FAN OFF D11422 — 2 ¬ - 3 C836 EQPT CLG EXH FAN PWR-NORM (E1) D11418 - 21-27-21 X1 -— 15 D11422 FAN ON R29 NORM EXH FAN CONT RELAY D11432 C41 28V AC GND SERV 1 24-53-11 (SH 1) D11416 — 11 — 33-29-11 C 3 C413 BRT ENTRY LTS 0FF D1762 D1762 D11416 C590 CEILING LT-R B2 -0 1 - B1 0 10 CEILING LT-L (E10) C1937 CEILING LT AFT-L (E7) ₩ X1 0N X2 R120 CEILING LTS RELAY - 33-22-11 OFF D3534 D3534 2 NC B2 OF BE C1938 CEILING LT AFT-R (E8) ON R394 AFT CEILING LTS RELAY 24-53-11 SH. 2 P91 POWER DISTRIBUTION PANEL NO 1

NOTES: 1 COLLAR AND LABEL INOP 2 RESERVED FOR FLOURESCENT LIGHTING 115V AC GROUND ALL **SERVICE BUS** D280A451

737-800 SYSTEM SCHEMATIC MANUAL



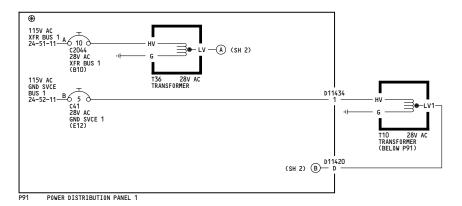
POWER DISTRIBUTION PANEL NO 2

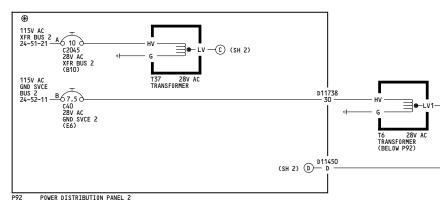
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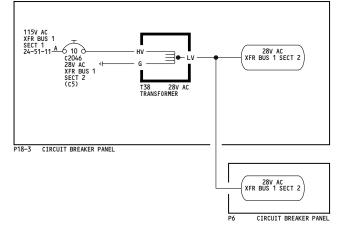
Page 101 Sheet 2 Jun 21/2016

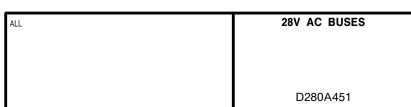


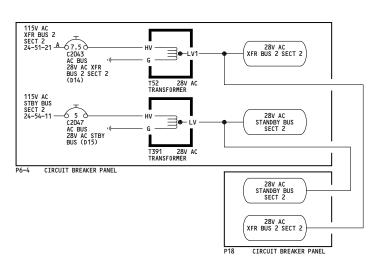
WIRING DIAGRAMS 24-53-11







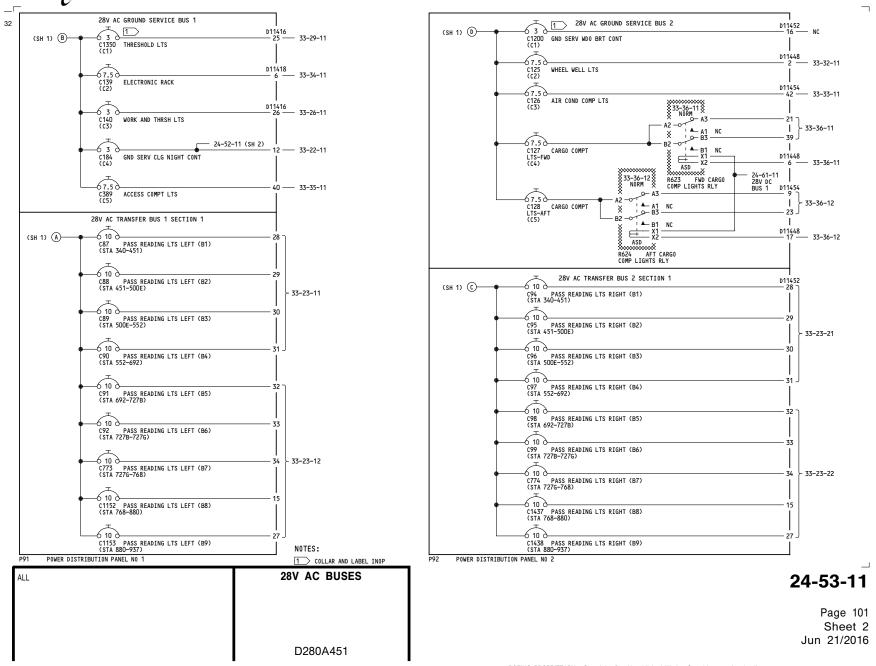




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Page 101 Sheet 1 Jun 21/2016

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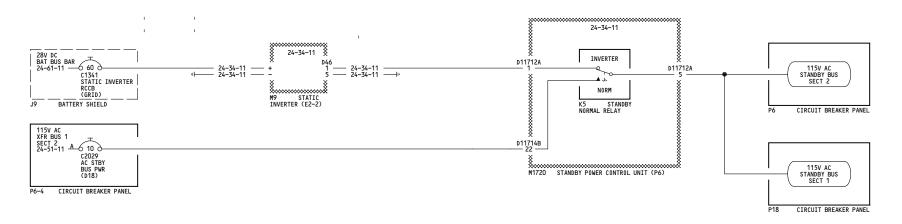




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737-800 SYSTEM SCHEMATIC MANUAL

WIRING DIAGRAMS 24-54-11



ALL	115V AC STANDBY BUS
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24-54-11

Page 101

Jun 21/2016

