

CHAPTER

24

ELECTRICAL POWER



CHAPTER 24
ELECTRICAL POWER

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
24-EFFECTIVE PAGES					24-22-02				
		1 thru 3		May 06/2009			101		Dec 18/2007
		4		BLANK			102		Dec 18/2007
24-CONTENTS							103		May 06/2009
R		1		May 06/2009	D				
R		2		May 06/2009		24-22-03			
R		3		May 06/2009	O		101		Jan 21/2005
R		4		May 06/2009	O		102		Jan 21/2005
24-ALPHABETICAL INDEX					D		103		May 06/2009
		1		Dec 18/2007		24-22-04			
		2		Dec 18/2007			101		Dec 18/2007
	24-00-01						102		Dec 18/2007
R		101		May 06/2009	D		103		May 06/2009
	24-00-02					24-22-05			
		101		Jan 21/2005	O		101		Jan 21/2005
		102		Jan 21/2005	O		102		Jan 21/2005
D		103		May 06/2009	D		103		May 06/2009
	24-11-01					24-22-06			
R		101		May 06/2009	R		101		May 06/2009
	24-11-02					24-22-07			
R		101		May 06/2009	R		101	1	May 06/2009
	24-22-01				R			2	May 06/2009
O		101		Jan 21/2005		24-22-08			
O		102		Jan 21/2005	R		101	1	May 06/2009
D		103		May 06/2009	R			2	May 06/2009

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

24-EFFECTIVE PAGES



CHAPTER 24
ELECTRICAL POWER

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
		101		Jan 21/2005			101		Jan 21/2005
		102		Jan 21/2005			102		Jan 21/2005
D		103		May 06/2009	D		103		May 06/2009
	24-23-01					24-31-02			
R		101		May 06/2009	R		101		May 06/2009
	24-23-02					24-32-01			
R		101		May 06/2009	R		101		May 06/2009
	24-23-03					24-32-02			
R		101		May 06/2009	D		102		May 06/2009
	24-25-01					24-33-01			
R		101	1	May 06/2009	R		101		May 06/2009
R			2	May 06/2009	D		102		May 06/2009
A		101.1	1	May 06/2009		24-33-02			
A			2	May 06/2009	O		101		Jan 21/2005
		102	1	Jan 21/2005	A		101.1		May 06/2009
			2	Jan 21/2005	R		102		May 06/2009
	24-28-01					24-41-01			
R		101		May 06/2009	R		101		May 06/2009
	24-31-01				D		102		May 06/2009
		101		Jan 21/2005		24-51-01			
A		101.1		May 06/2009	R		101		May 06/2009
O		102		Jan 21/2005	D		102		May 06/2009
D		103		May 06/2009		24-51-02			
					R		101		May 06/2009

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

24-EFFECTIVE PAGES



CHAPTER 24
ELECTRICAL POWER

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
	24-51-02 (cont.)					24-51-25 (cont.)			
D		102		May 06/2009	A		101.1		May 06/2009
	24-51-03					24-51-30			
O		101		Jan 21/2005	R		101		May 06/2009
O		102		Jan 21/2005		24-51-40			
D		103		May 06/2009	R		101		May 06/2009
	24-51-04				D		102		May 06/2009
R		101		May 06/2009		24-51-50			
D		102		May 06/2009	R		101		May 06/2009
	24-51-05					24-51-61			
R		101		May 06/2009	R		101		May 06/2009
	24-51-10				D		102		May 06/2009
R		101		May 06/2009		24-51-62			
D		102		May 06/2009	R		101		May 06/2009
A		101.1		May 06/2009	D		102		May 06/2009
	24-51-15					24-53-01			
R		101		May 06/2009	R		101		May 06/2009
D		102		May 06/2009					
	24-51-20								
R		101		May 06/2009					
D		102		May 06/2009					
A		101.1		May 06/2009					
	24-51-25								
R		101		May 06/2009					

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

24-EFFECTIVE PAGES

CHAPTER 24
ELECTRICAL POWER

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
<u>ELECTRICAL POWER</u>						
■ ELECTRICAL POWER SYSTEM	24-00-01		101		May 06/2009	ALL
ELECTRICAL POWER - UNIT LOCATION	24-00-02		101		Jan 21/2005	001-003
			102		Jan 21/2005	004-099
<u>GENERATOR DRIVE SYSTEM</u>						
■ LEFT INTEGRATED DRIVE GENERATOR	24-11-01		101		May 06/2009	ALL
■ RIGHT INTEGRATED DRIVE GENERATOR	24-11-02		101		May 06/2009	ALL
<u>CONTROL</u>						
LEFT GENERATOR CONTROL - GCR	24-22-01		101		Jan 21/2005	001-003
			102		Jan 21/2005	004-099
LEFT GENERATOR CONTROL - GCB	24-22-02		101		Dec 18/2007	001-008 010-099
			102		Dec 18/2007	009
RIGHT GENERATOR CONTROL - GCR	24-22-03		101		Jan 21/2005	001-003
			102		Jan 21/2005	004-099
RIGHT GENERATOR CONTROL - GCB	24-22-04		101		Dec 18/2007	001-008 010-099
			102		Dec 18/2007	009
APU GENERATOR CONTROL - GCR	24-22-05		101		Jan 21/2005	001-003
			102		Jan 21/2005	004-099
■ APU GENERATOR CONTROL - APB	24-22-06		101		May 06/2009	ALL
■ LEFT BUS TIE BREAKER CONTROL	24-22-07		101	1	May 06/2009	ALL
				2	May 06/2009	ALL
■ RIGHT BUS TIE BREAKER CONTROL	24-22-08		101	1	May 06/2009	ALL
				2	May 06/2009	ALL

CHAPTER 24
ELECTRICAL POWER

	Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
	<u>FAULT SENSING</u>						
	DIFFERENTIAL PROTECTION SYSTEM - SIMPLIFIED	24-23-00		101		Jan 21/2005	001-002
						Jan 21/2005	003-099
I	LEFT GENERATOR DIFFERENTIAL PROTECTION	24-23-01		101		May 06/2009	ALL
I	RIGHT GENERATOR DIFFERENTIAL PROTECTION	24-23-02		101		May 06/2009	ALL
I	APU GENERATOR DIFFERENTIAL PROTECTION	24-23-03		101		May 06/2009	ALL
	<u>HYDRAULIC MOTOR DRIVEN GENERATOR SYSTEM</u>						
I	HYDRAULIC GENERATOR CONTROL	24-25-01		101	1	May 06/2009	001-002
I					2	May 06/2009	001-002
I				101.1	1	May 06/2009	001
I					2	May 06/2009	001
				102	1	Jan 21/2005	003-099
					2	Jan 21/2005	003-099
	<u>AC METERS</u>						
I	AC METERS	24-28-01		101		May 06/2009	ALL
	<u>BATTERIES</u>						
	MAIN BATTERY POWER	24-31-01		101		Jan 21/2005	001-002
I				101.1		May 06/2009	001
				102		Jan 21/2005	003-099
	DC POWER SYSTEM - APU BATTERY	24-31-02		101		Jan 21/2005	001-002
				102		Jan 21/2005	003-099
	<u>TRANSFORMER RECTIFIER</u>						
I	TRANSFORMER RECTIFIER POWER	24-32-01		101		May 06/2009	ALL

CHAPTER 24
ELECTRICAL POWER

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
TRANSFORMER RECTIFIER UNIT - APU	24-32-02		101		May 06/2009	ALL
<u>STANDBY POWER</u>						
STANDBY POWER SYSTEM	24-33-01		101		May 06/2009	ALL
EXTENDED TIME STANDBY POWER SYSTEM	24-33-02		101		Jan 21/2005	001-008 010-099
			101.1		May 06/2009	001
			102		May 06/2009	009
<u>AC EXTERNAL POWER</u>						
EXTERNAL POWER SYSTEM	24-41-01		101		May 06/2009	ALL
<u>115-VOLT AC POWER DISTRIBUTION</u>						
THREE PHASE POWER DISTRIBUTION	24-51-01		101		May 06/2009	ALL
LEFT GENERATOR LOADS - PRIMARY DISTRIBUTION	24-51-02		101		May 06/2009	ALL
RIGHT GENERATOR LOADS - PRIMARY DISTRIBUTION	24-51-03		101		Jan 21/2005	001-002
			102		Jan 21/2005	003-099
APU LOADS - PRIMARY DISTRIBUTION	24-51-04		101		May 06/2009	ALL
EXTERNAL POWER LOADS - PRIMARY DISTRIBUTION	24-51-05		101		May 06/2009	ALL
LEFT UTILITY POWER CONTROL	24-51-10		101		May 06/2009	ALL
			101.1		May 06/2009	003-011
ELECTRICAL LOAD SHEDDING	24-51-15		101		May 06/2009	ALL
RIGHT UTILITY POWER CONTROL	24-51-20		101		May 06/2009	ALL
			101.1		May 06/2009	003-011
LEFT AND RIGHT AC TRANSFER BUSES	24-51-25		101		May 06/2009	ALL
			101.1		May 06/2009	001
CENTER BUS POWER SYSTEM	24-51-30		101		May 06/2009	ALL

**CHAPTER 24
ELECTRICAL POWER**

	Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
I	GROUND SERVICE POWER CONTROL	24-51-40		101		May 06/2009	ALL
I	GROUND HANDLING POWER CONTROL	24-51-50		101		May 06/2009	ALL
I	CAPTAINS FLIGHT INSTRUMENT TRANSFER BUS	24-51-61		101		May 06/2009	ALL
I	FIRST OFFICERS FLIGHT INSTRUMENT TRANSFER BUS	24-51-62		101		May 06/2009	ALL
	<u>28-VOLT AC POWER DISTRIBUTION</u>						
I	28V AC DISTRIBUTION	24-53-01		101		May 06/2009	ALL

**CHAPTER 24
ELECTRICAL POWER**

CH-SC-SU	Title
24-53-01	28V AC DISTRIBUTION
24-28-01	AC METERS
24-22-06	APU GENERATOR CONTROL - APB
24-22-05	APU GENERATOR CONTROL - GCR
24-23-03	APU GENERATOR DIFFERENTIAL PROTECTION
24-51-04	APU LOADS - PRIMARY DISTRIBUTION
24-51-61	CAPTAINS FLIGHT INSTRUMENT TRANSFER BUS
24-51-30	CENTER BUS POWER SYSTEM
24-31-02	DC POWER SYSTEM - APU BATTERY
24-23-00	DIFFERENTIAL PROTECTION SYSTEM - SIMPLIFIED
24-51-15	ELECTRICAL LOAD SHEDDING
24-00-02	ELECTRICAL POWER - UNIT LOCATION
24-00-01	ELECTRICAL POWER SYSTEM
24-33-02	EXTENDED TIME STANDBY POWER SYSTEM
24-51-05	EXTERNAL POWER LOADS - PRIMARY DISTRIBUTION
24-41-01	EXTERNAL POWER SYSTEM
24-51-62	FIRST OFFICERS FLIGHT INSTRUMENT TRANSFER BUS
24-51-50	GROUND HANDLING POWER CONTROL
24-51-40	GROUND SERVICE POWER CONTROL

CH-SC-SU	Title
24-25-01	HYDRAULIC GENERATOR CONTROL
24-51-25	LEFT AND RIGHT AC TRANSFER BUSES
24-22-07	LEFT BUS TIE BREAKER CONTROL
24-22-02	LEFT GENERATOR CONTROL - GCB
24-22-01	LEFT GENERATOR CONTROL - GCR
24-23-01	LEFT GENERATOR DIFFERENTIAL PROTECTION
24-51-02	LEFT GENERATOR LOADS - PRIMARY DISTRIBUTION
24-11-01	LEFT INTEGRATED DRIVE GENERATOR
24-51-10	LEFT UTILITY POWER CONTROL
24-31-01	MAIN BATTERY POWER
24-22-08	RIGHT BUS TIE BREAKER CONTROL
24-22-04	RIGHT GENERATOR CONTROL - GCB
24-22-03	RIGHT GENERATOR CONTROL - GCR
24-23-02	RIGHT GENERATOR DIFFERENTIAL PROTECTION
24-51-03	RIGHT GENERATOR LOADS - PRIMARY DISTRIBUTION
24-11-02	RIGHT INTEGRATED DRIVE GENERATOR
24-51-20	RIGHT UTILITY POWER CONTROL
24-33-01	STANDBY POWER SYSTEM
24-51-01	THREE PHASE POWER DISTRIBUTION

24-ALPHABETICAL INDEX

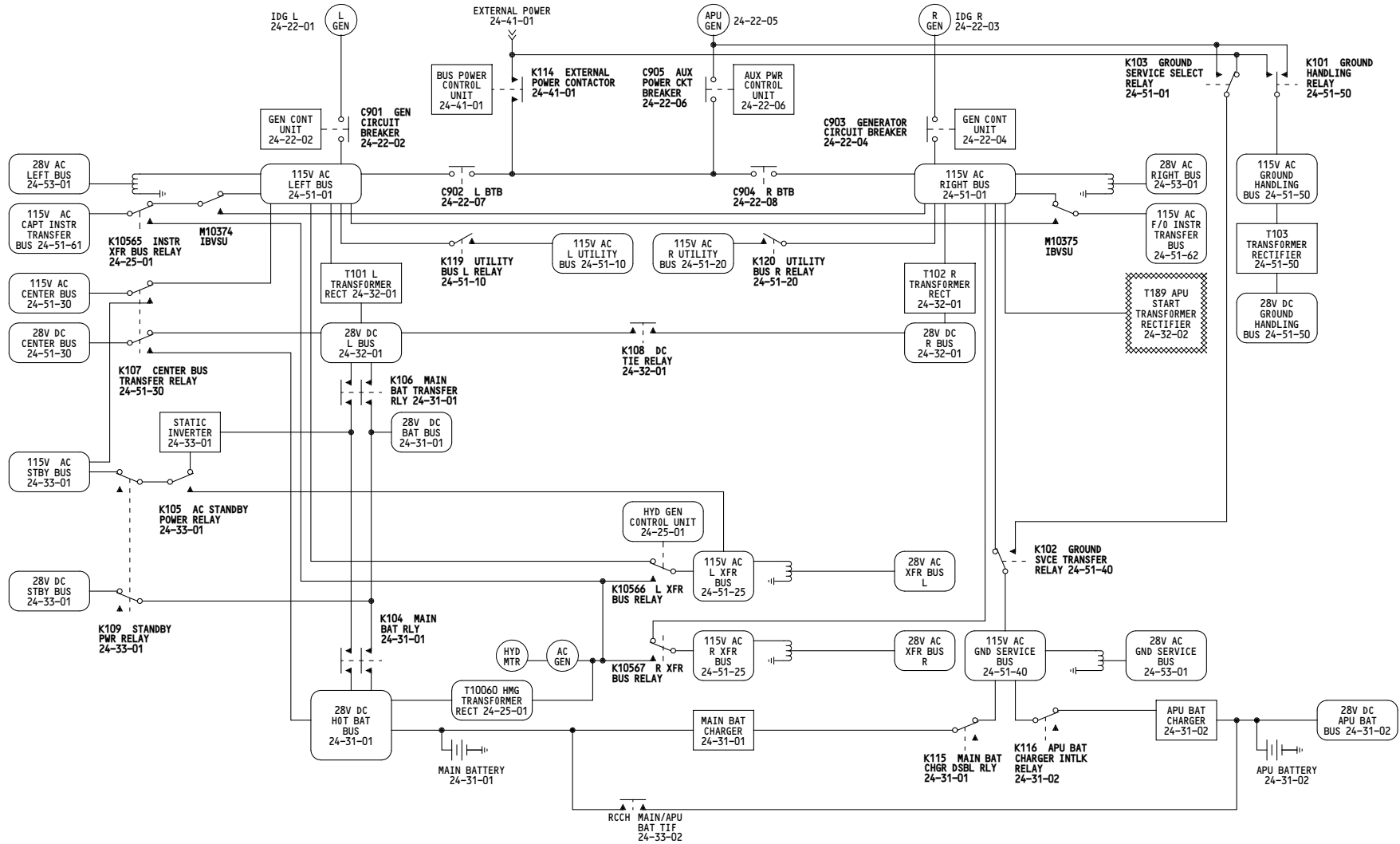
CHAPTER 24
ELECTRICAL POWER

CH-SC-SU	Title
24-32-01	TRANSFORMER RECTIFIER POWER
24-32-02	TRANSFORMER RECTIFIER UNIT - APU

CH-SC-SU	Title
----------	-------

24-ALPHABETICAL INDEX

5202



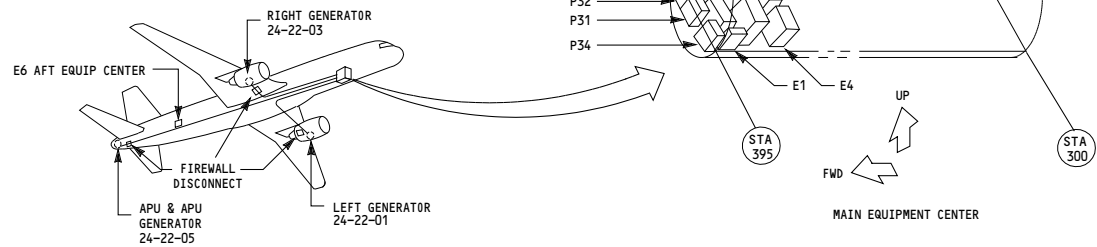
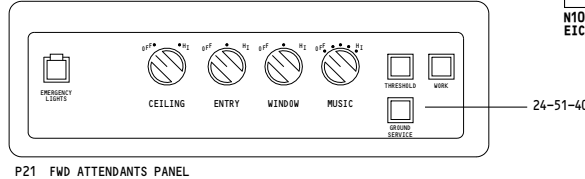
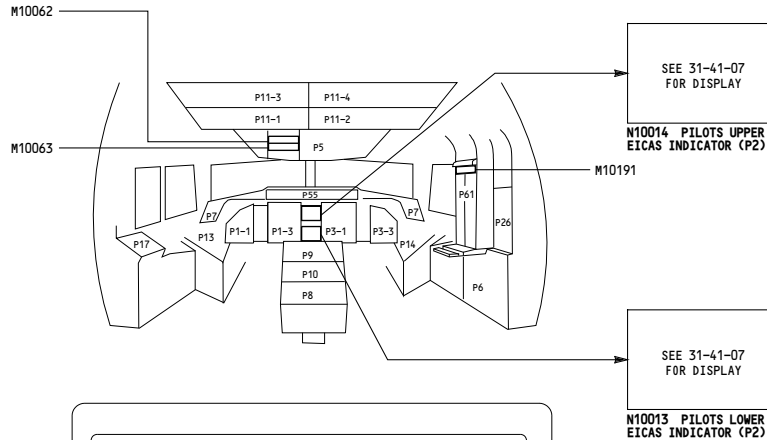
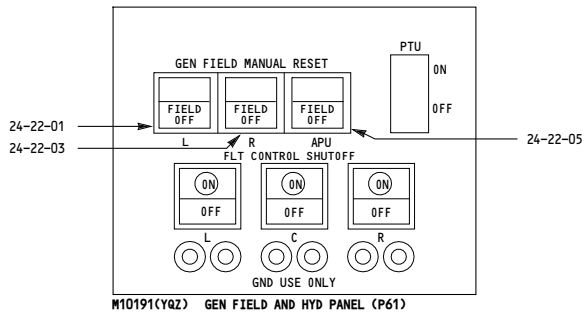
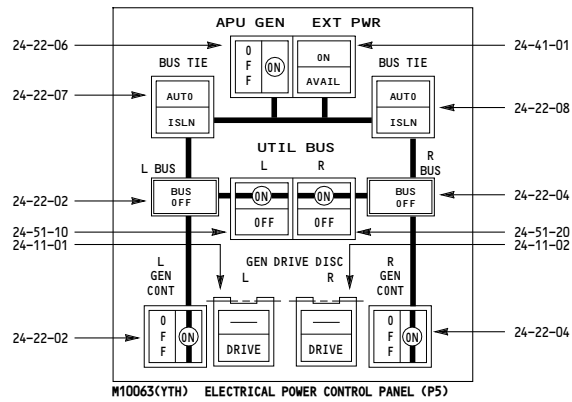
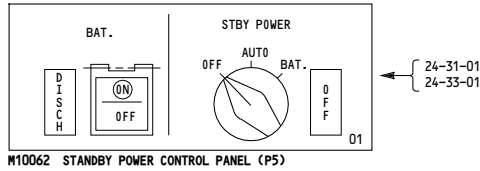
ALL	<p align="center">ELECTRICAL POWER SYSTEM</p> <p align="center">D280N032S</p>
-----	--

24-00-01

Page 101

May 06/2009

5000



PANEL No.	PANEL TITLES
P5	OVHD PANEL
P6	MAIN PWR DISTR PANEL
P8	PILOTS AFT CONTROL STAND
P11	OVHD CB PANEL
P31	LEFT GEN SHIELD PANEL
P32	RIGHT GEN SHIELD PANEL
P34	APU/EXT PWR PANEL
P36	LEFT MISC RELAY PANEL
P37	RIGHT MISC RELAY PANEL
P61	ACCESSORY PANEL

SHELF No.	SHELF TITLES
E1	E/E EQUIPMENT SHELF
E2	E/E EQUIPMENT SHELF
E3	E/E EQUIPMENT SHELF
E4	E/E EQUIPMENT SHELF
E5	E/E EQUIPMENT SHELF
E6	AFT EQUIPMENT SHELF

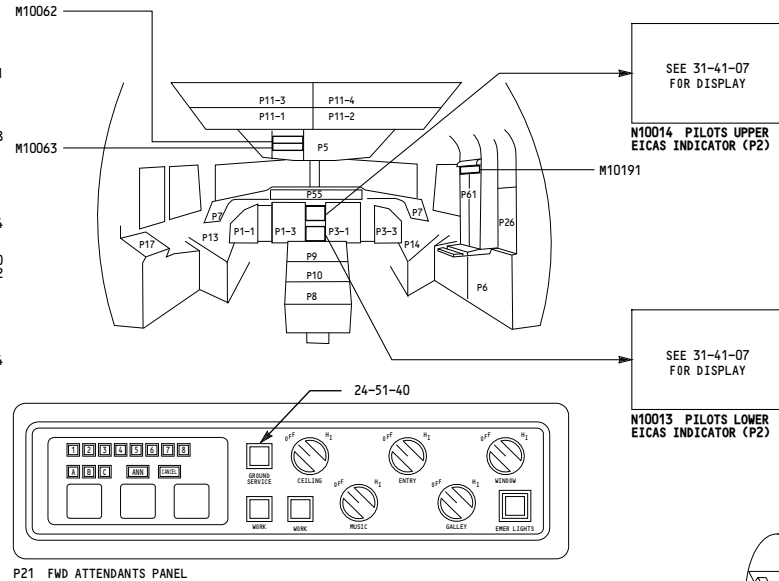
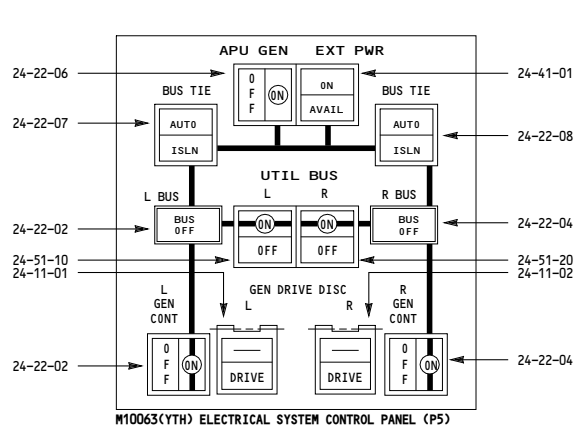
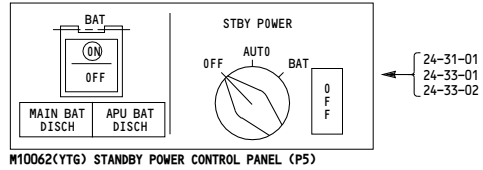
001-003	ELECTRICAL POWER - UNIT LOCATION
D280N032S	

24-00-02

Page 101

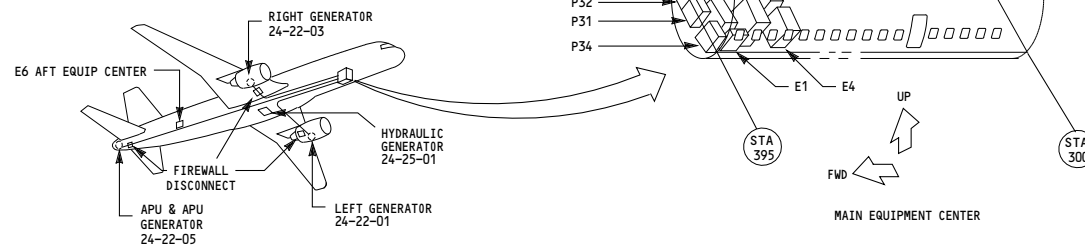
Jan 21/2005

5017



PANEL NO.	PANEL TITLES
P5	OVHD PANEL
P6	MAIN PWR DISTR PANEL
P8	PILOTS AFT CONTROL STAND
P11	OVHD CB PANEL
P31	LEFT GEN PWR PANEL
P32	RIGHT GEN PWR PANEL
P34	APU/EXT PWR PANEL
P36	MISC ELEC EQUIP PANEL
P37	R MISC ELEC EQUIP PANEL
P71	HYD GEN CONTROL PANEL

SHELF NO.	SHELF TITLES
E1	E/E EQUIPMENT SHELF
E2	E/E EQUIPMENT SHELF
E3	E/E EQUIPMENT SHELF
E4	E/E EQUIPMENT SHELF
E5	E/E EQUIPMENT SHELF
E6	AFT EQUIPMENT SHELF



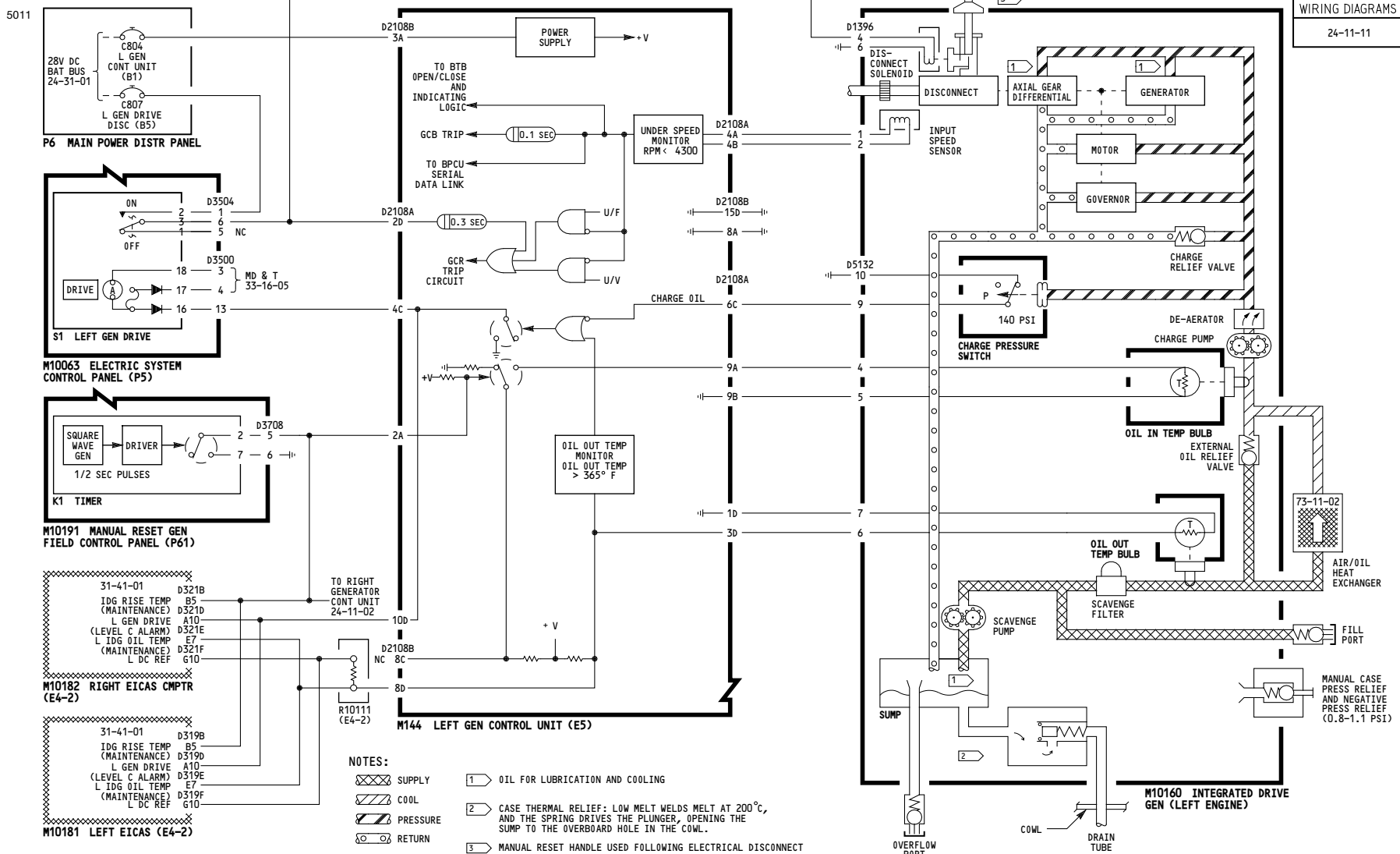
004-099	ELECTRICAL POWER - UNIT LOCATION
	D280N032S

24-00-02

Page 102

Jan 21/2005

WIRING DIAGRAMS
24-11-11



- NOTES:**
- SUPPLY
 - COOL
 - PRESSURE
 - RETURN
 - OIL FOR LUBRICATION AND COOLING
 - CASE THERMAL RELIEF: LOW MELT WELDS MELT AT 200°C, AND THE SPRING DRIVES THE PLUNGER, OPENING THE SUMP TO THE OVERBOARD HOLE IN THE COWL.
 - MANUAL RESET HANDLE USED FOLLOWING ELECTRICAL DISCONNECT

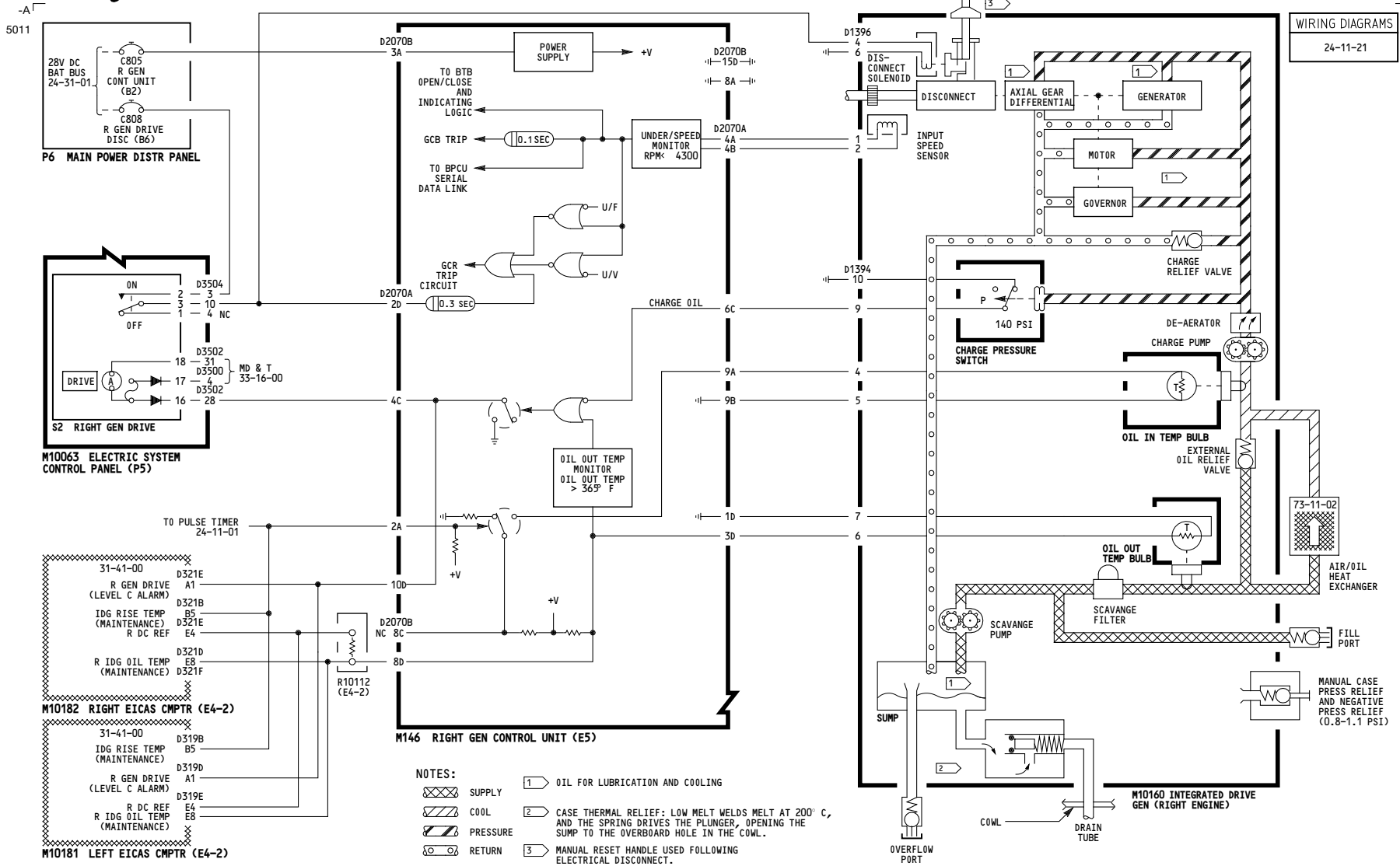
ALL	LEFT INTEGRATED DRIVE GENERATOR
	D280N032S

24-11-01

Page 101

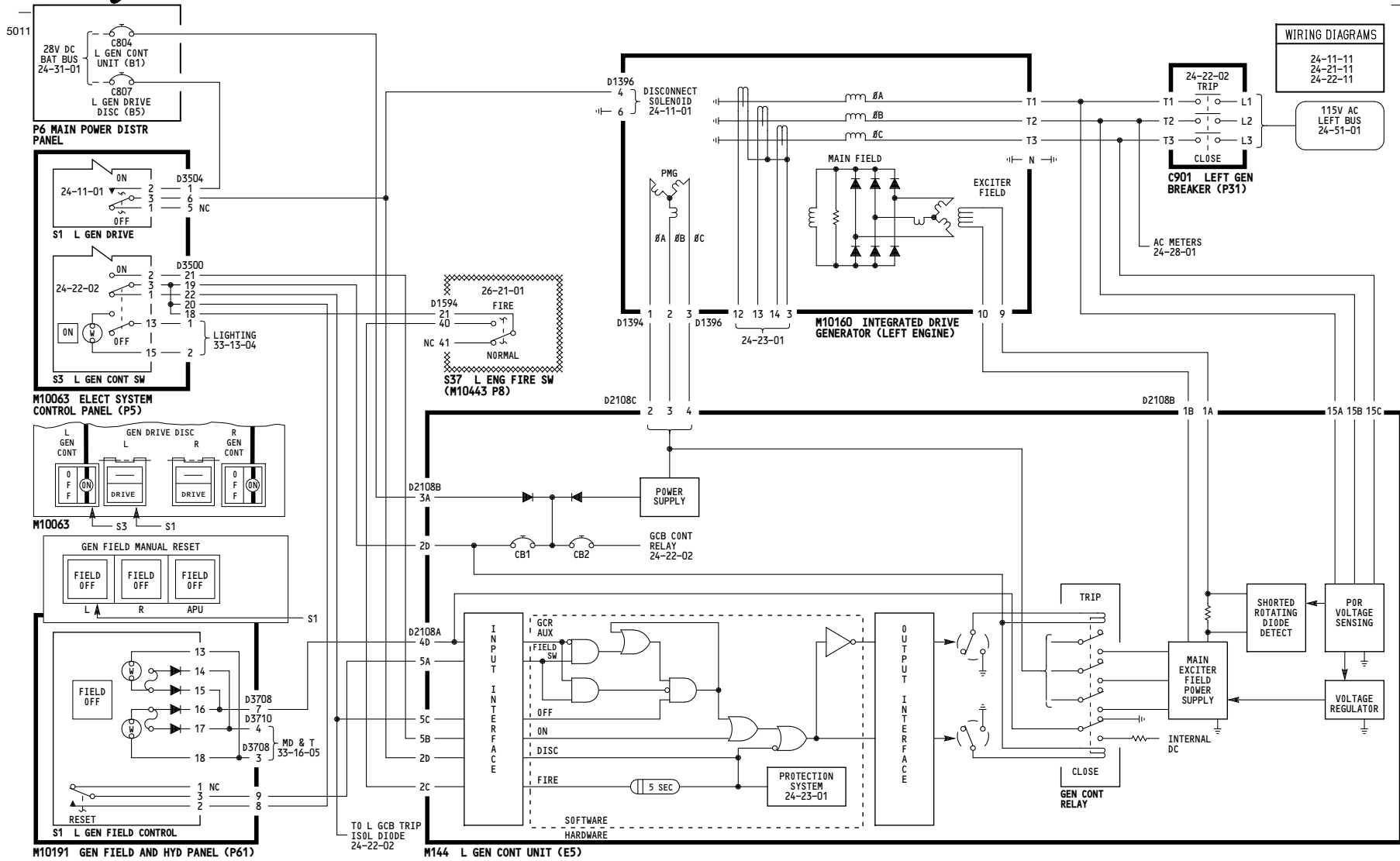
May 06/2009

WIRING DIAGRAMS
24-11-21



ALL	RIGHT INTEGRATED DRIVE GENERATOR D280N032S
-----	--

24-11-02



001-003

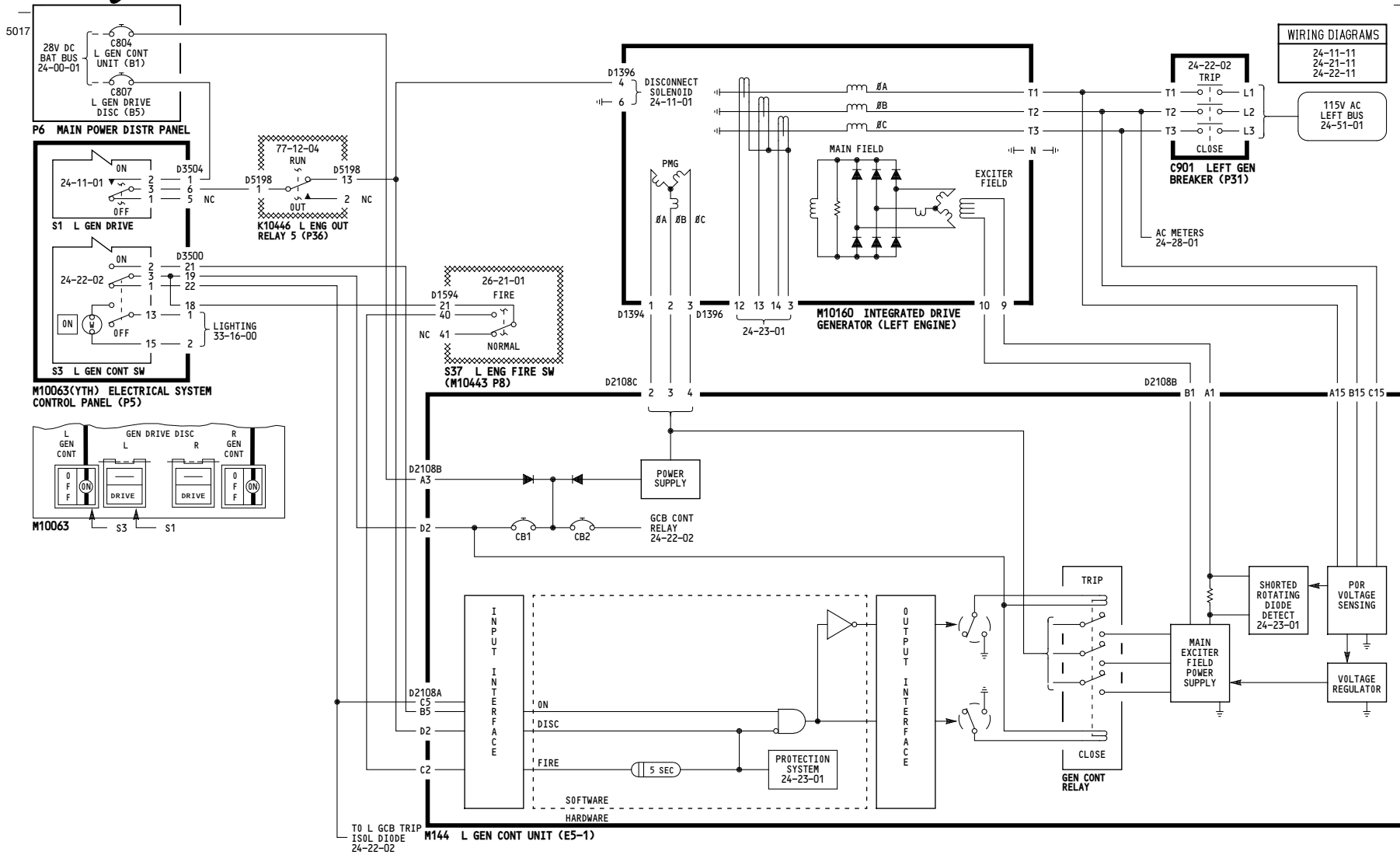
LEFT GENERATOR CONTROL - GCR

D280N032S

24-22-01

Page 101

Jan 21/2005

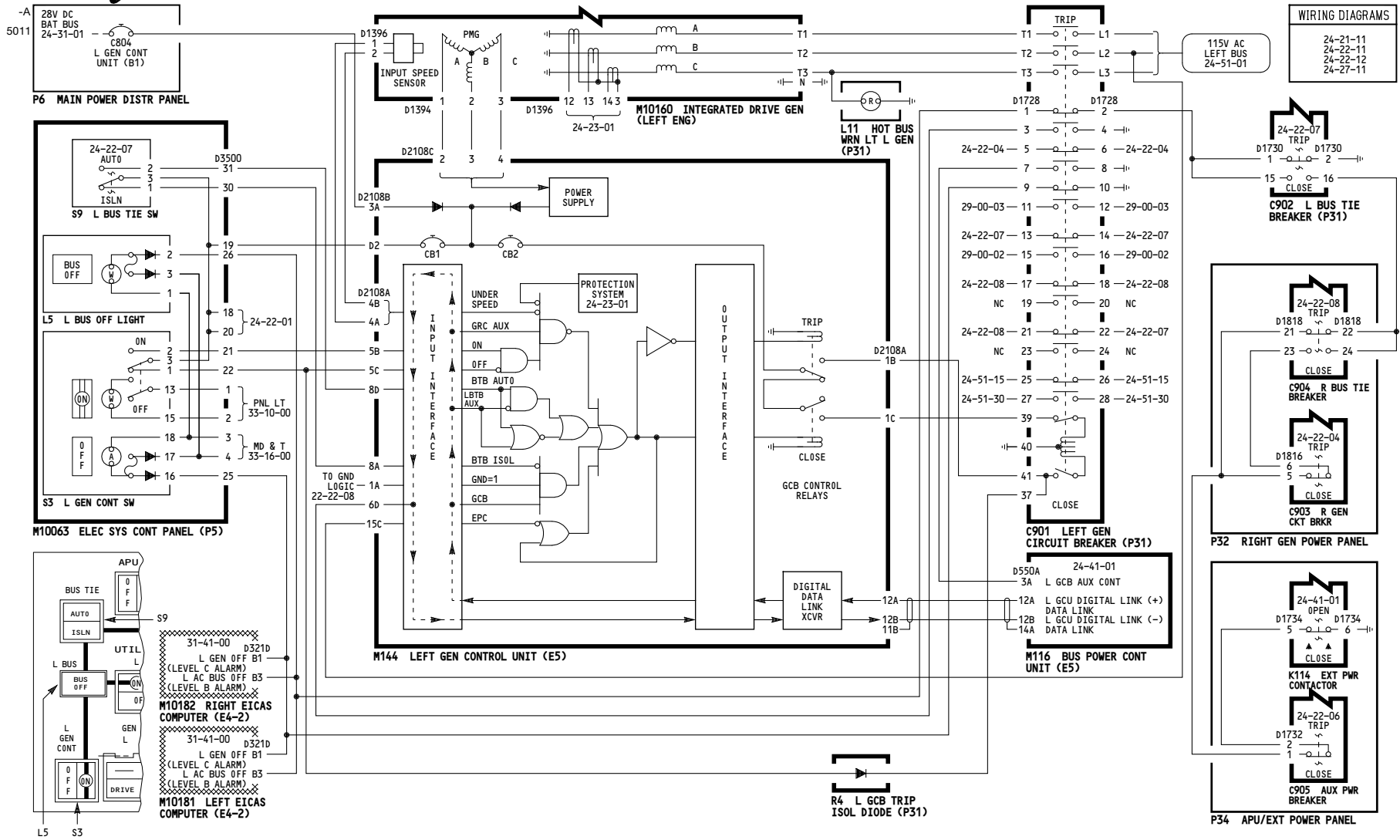


004-099

LEFT GENERATOR CONTROL - GCR

D280N032S

24-22-01



001-008, 010-099

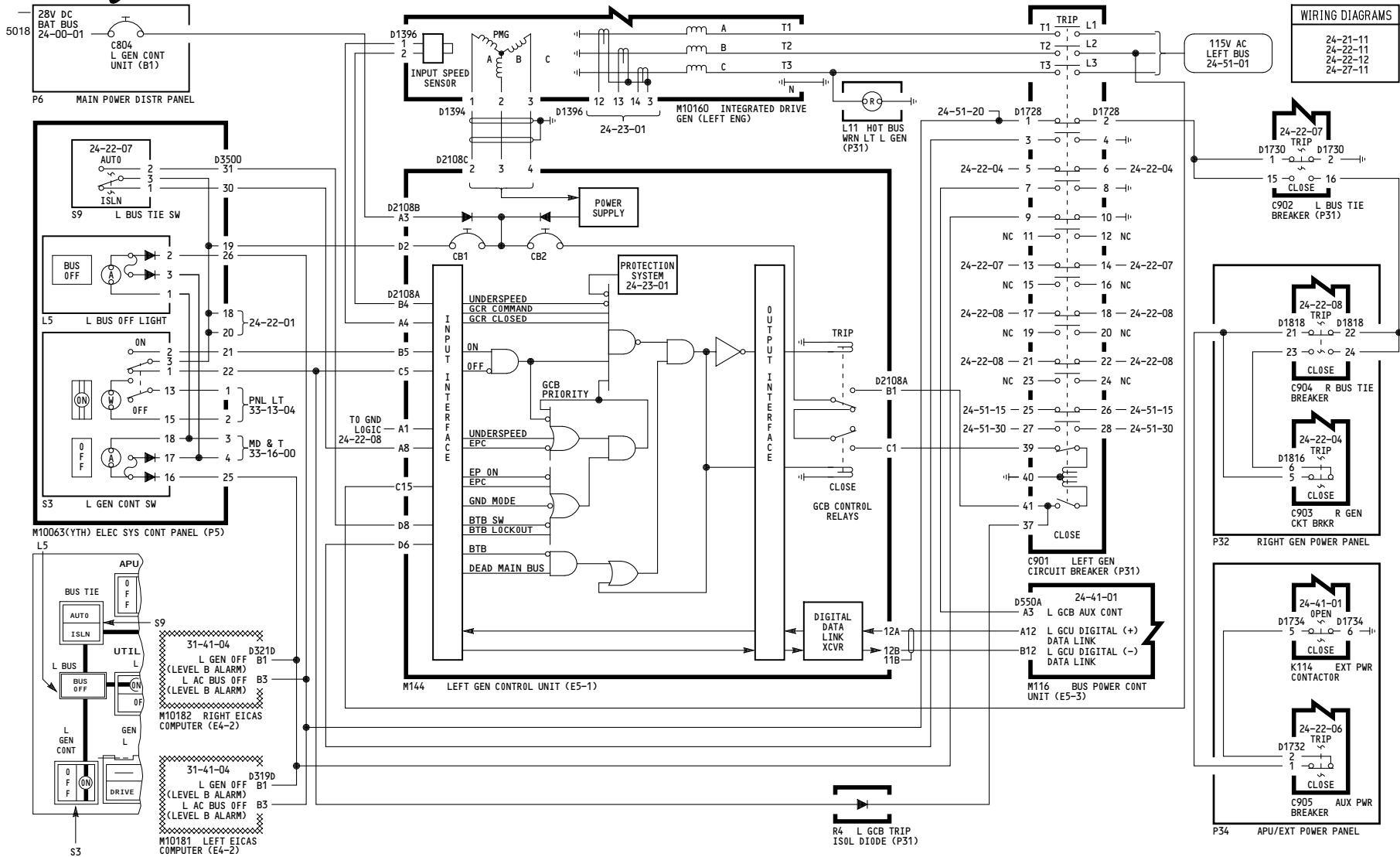
LEFT GENERATOR CONTROL - GCB

D280N032S

24-22-02

Page 101

Dec 18/2007

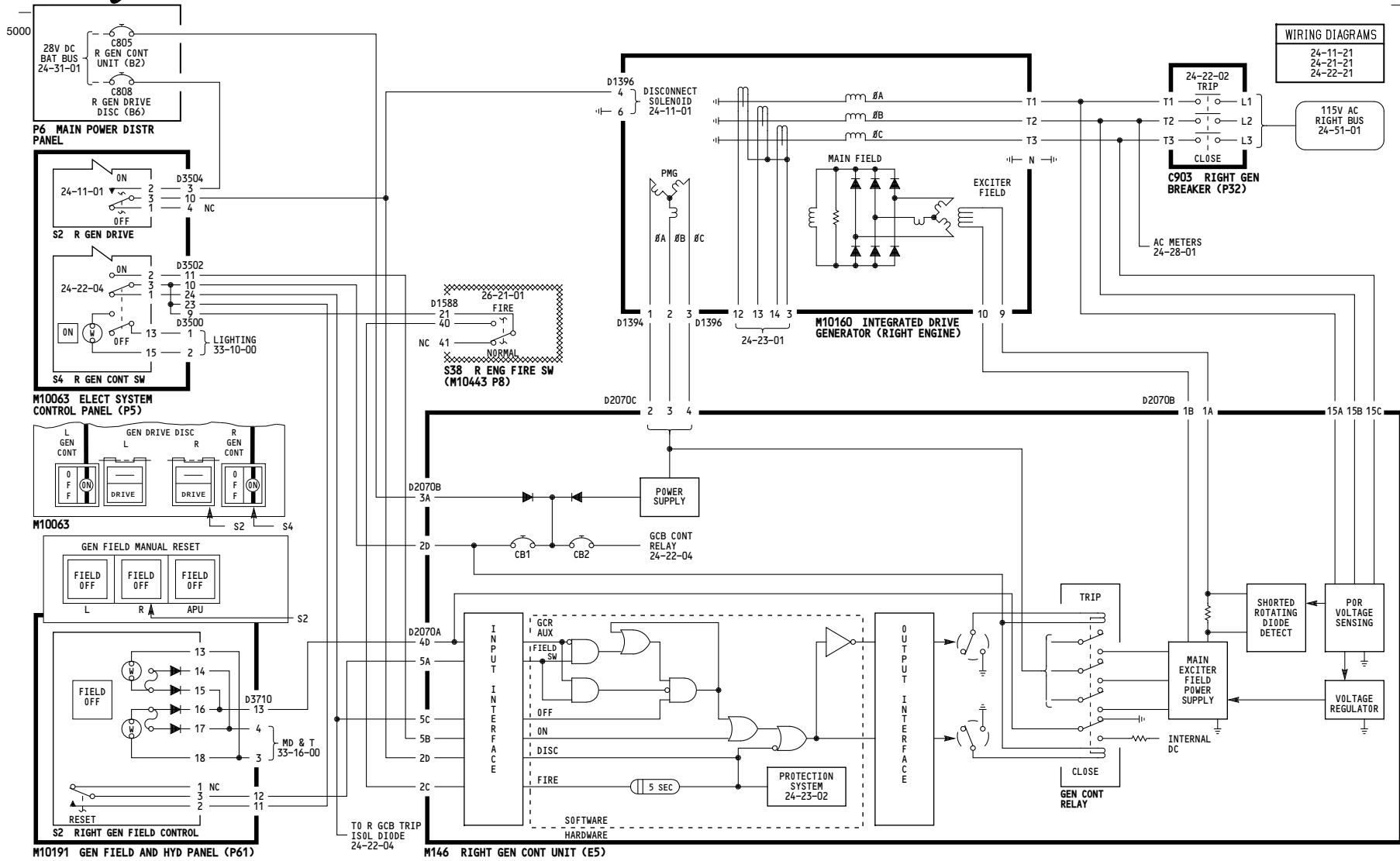


009

LEFT GENERATOR CONTROL - GCB

D280N032S

24-22-02



WIRING DIAGRAMS
 24-11-21
 24-21-21
 24-22-21

115V AC RIGHT BUS
 24-51-01

AC METERS
 24-28-01

001-003

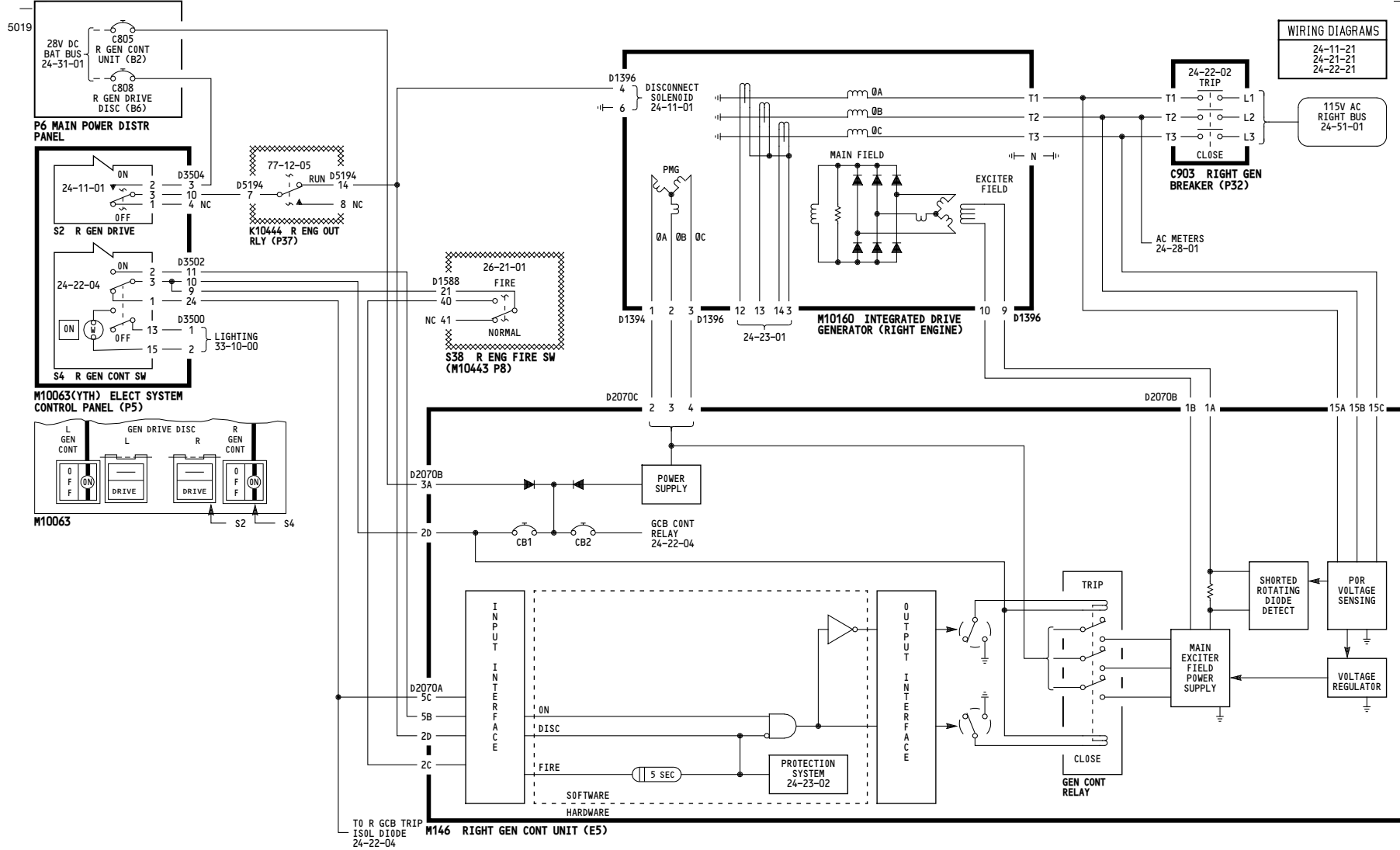
RIGHT GENERATOR CONTROL - GCR

D280N032S

24-22-03

Page 101

Jan 21/2005



004-099

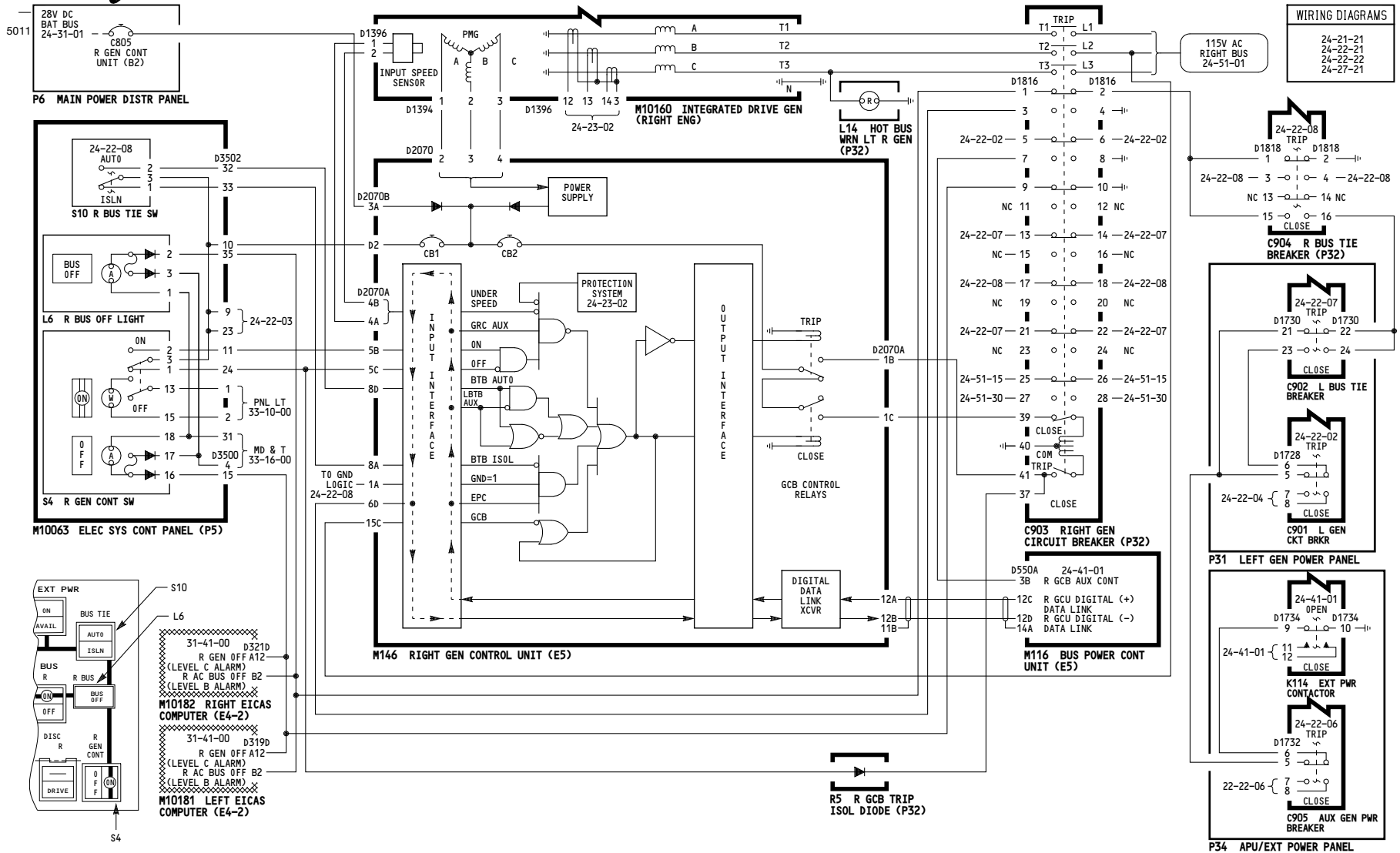
RIGHT GENERATOR CONTROL - GCR

D280N032S

24-22-03

Page 102

Jan 21/2005

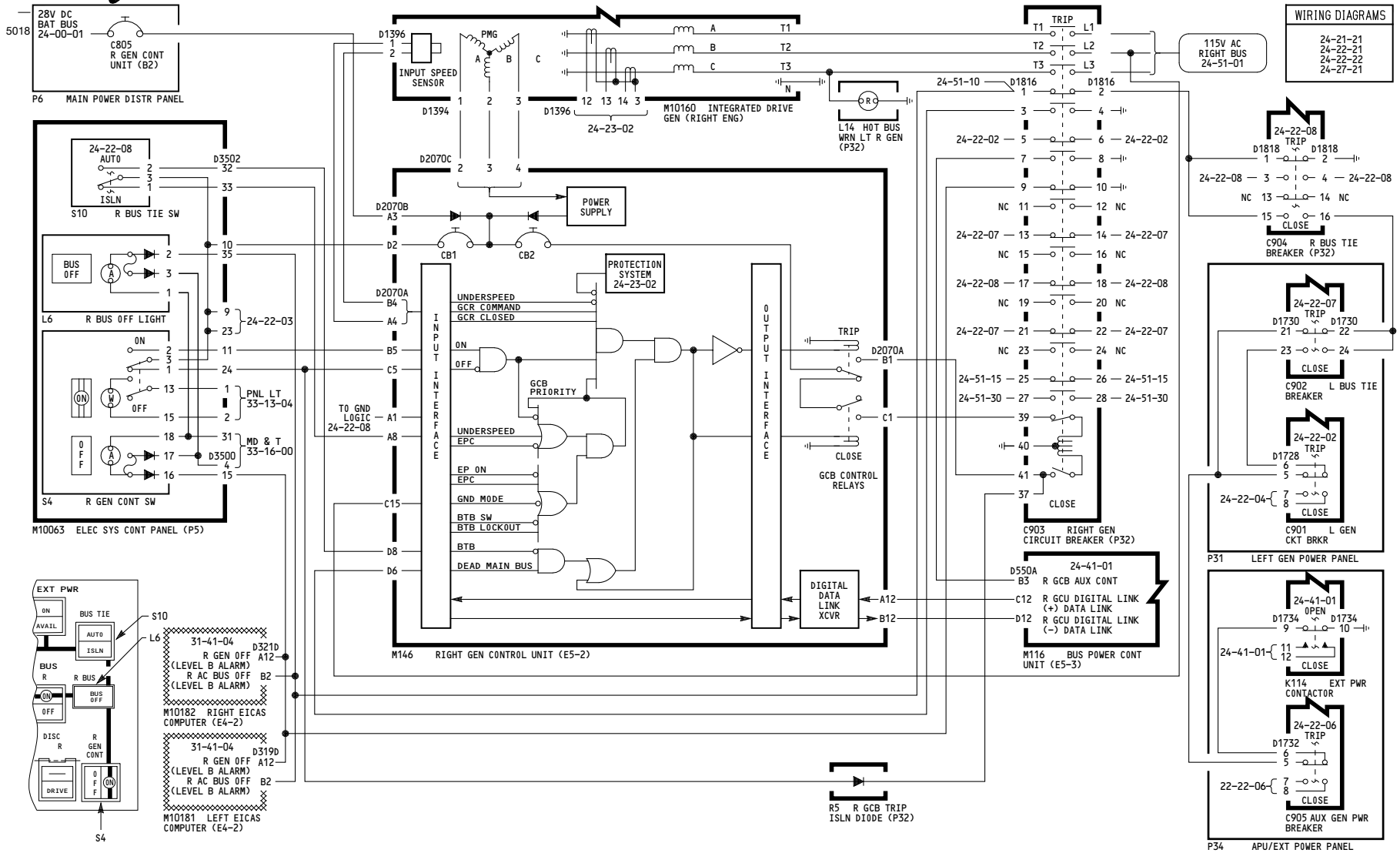


001-008, 010-099

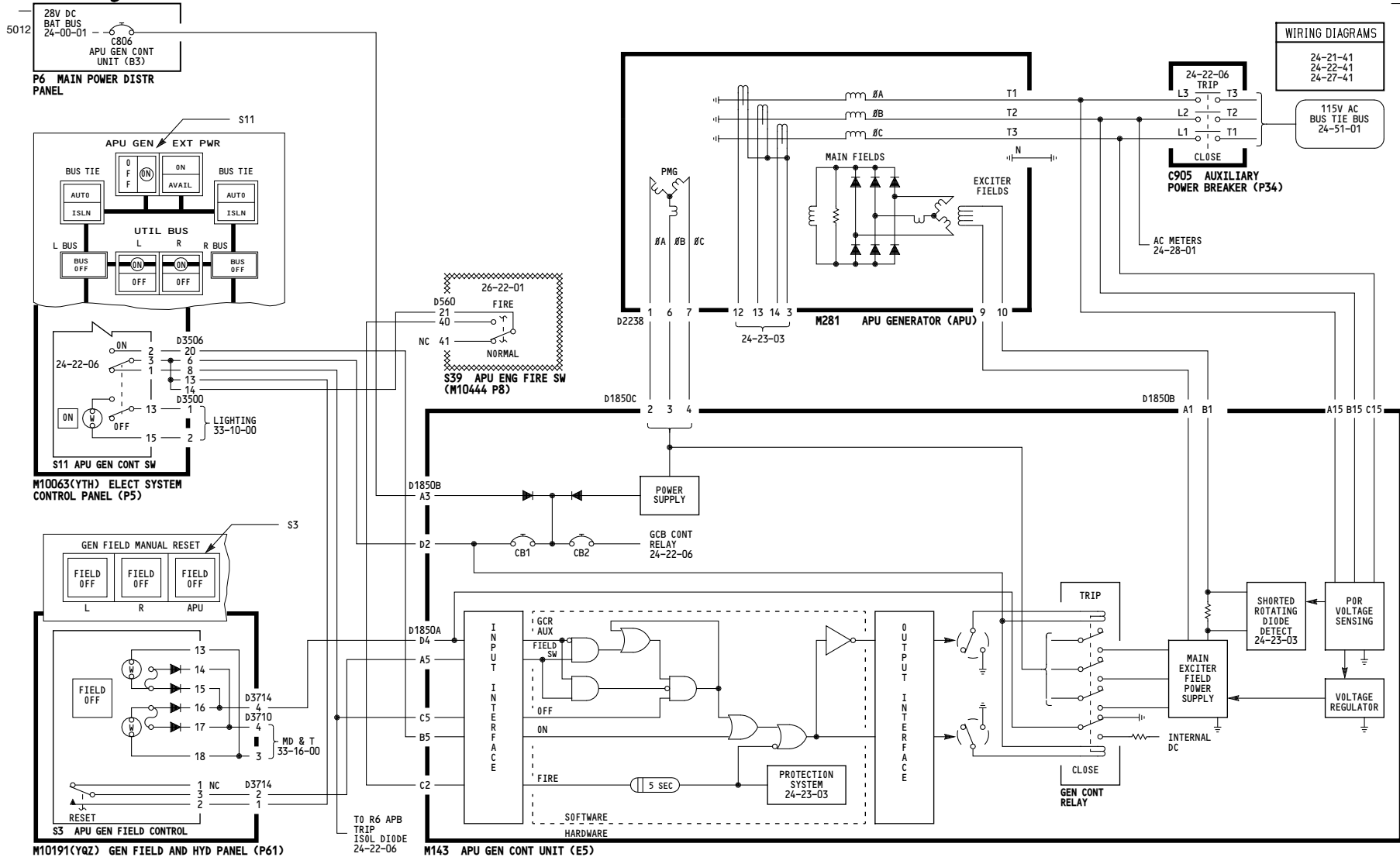
RIGHT GENERATOR CONTROL - GCB

D280N032S

24-22-04



24-22-04

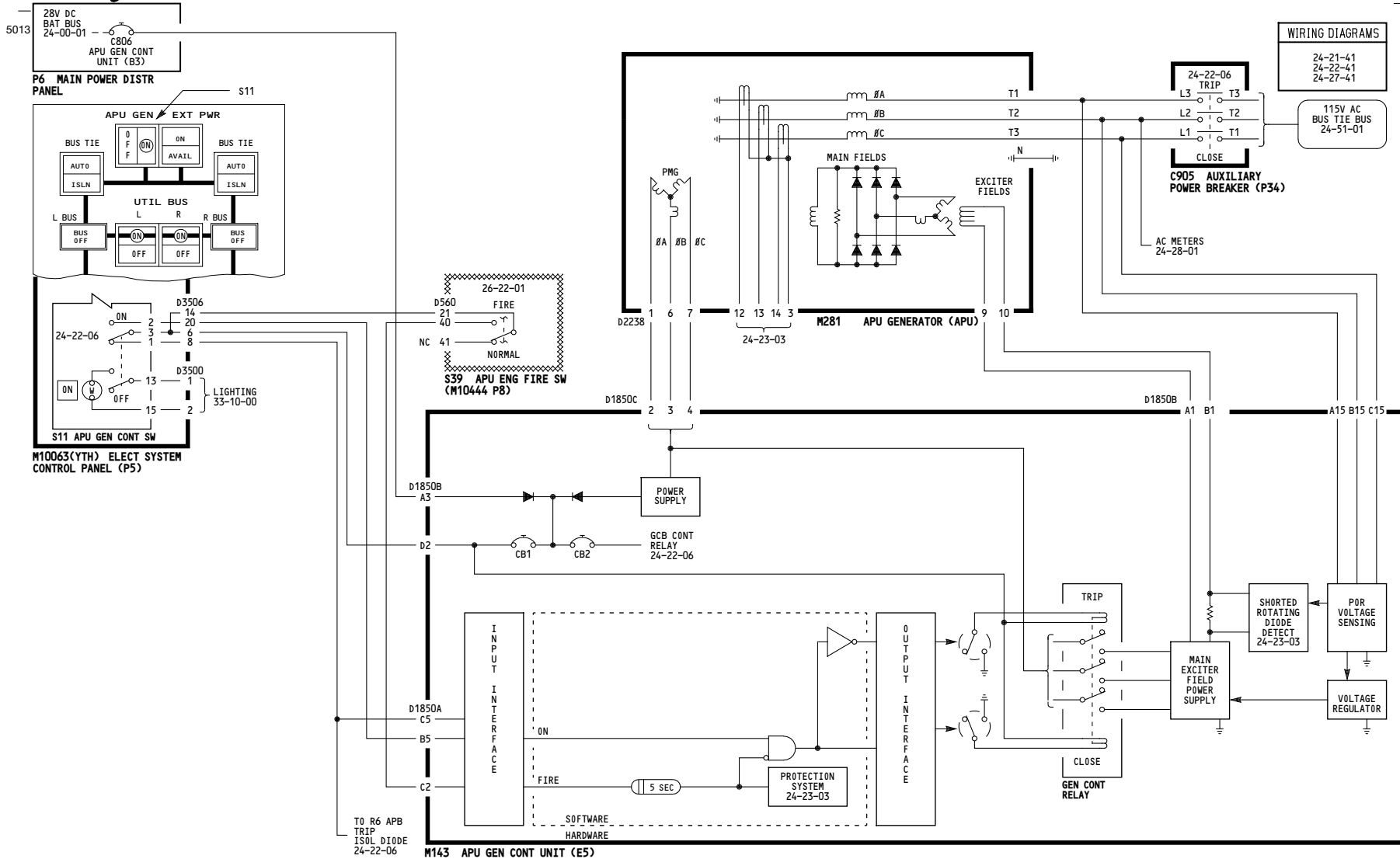


001-003

APU GENERATOR CONTROL - GCR

D280N032S

24-22-05

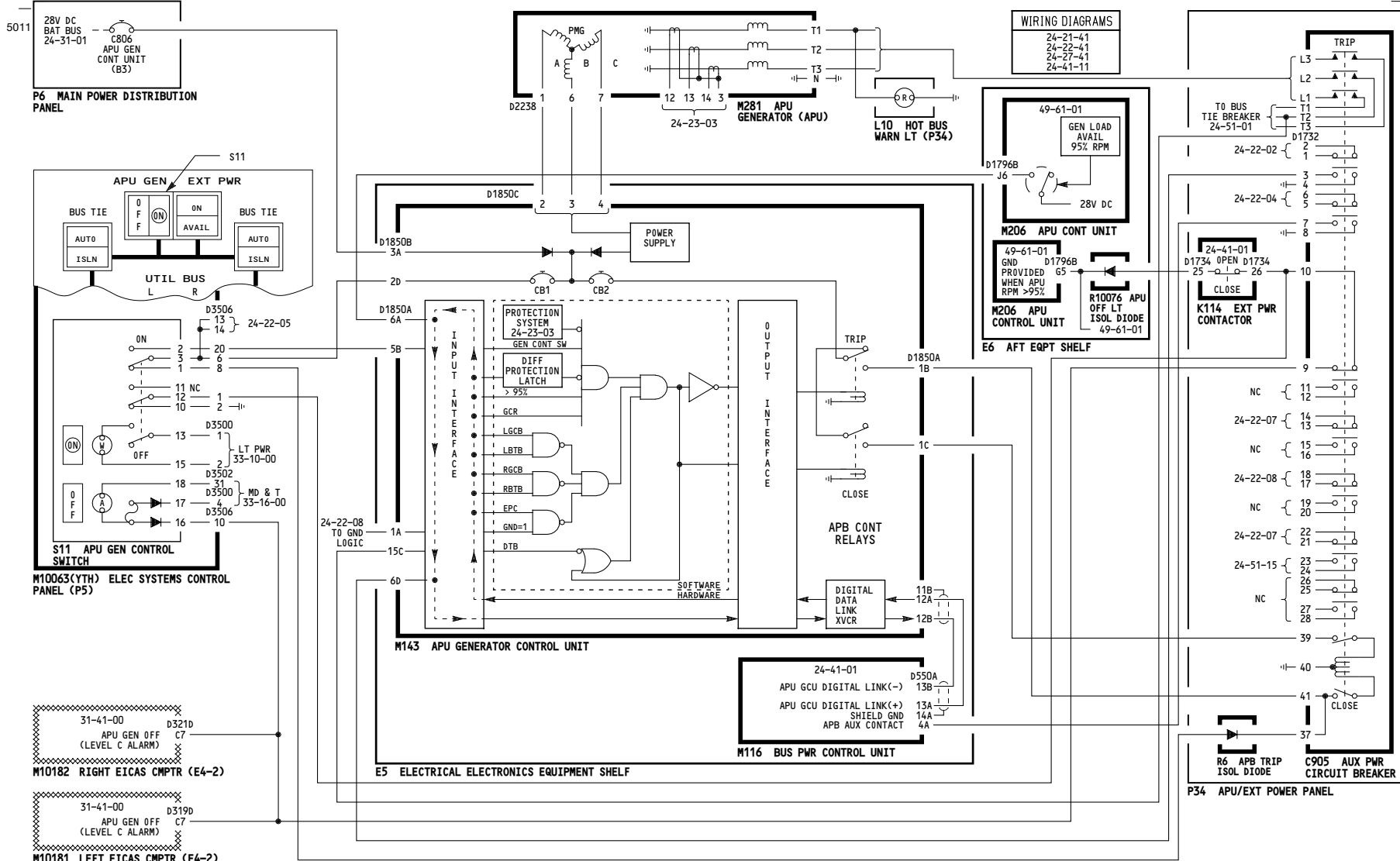


004-099

APU GENERATOR CONTROL - GCR

D280N032S

24-22-05



ALL

APU GENERATOR CONTROL - APB

D280N032S

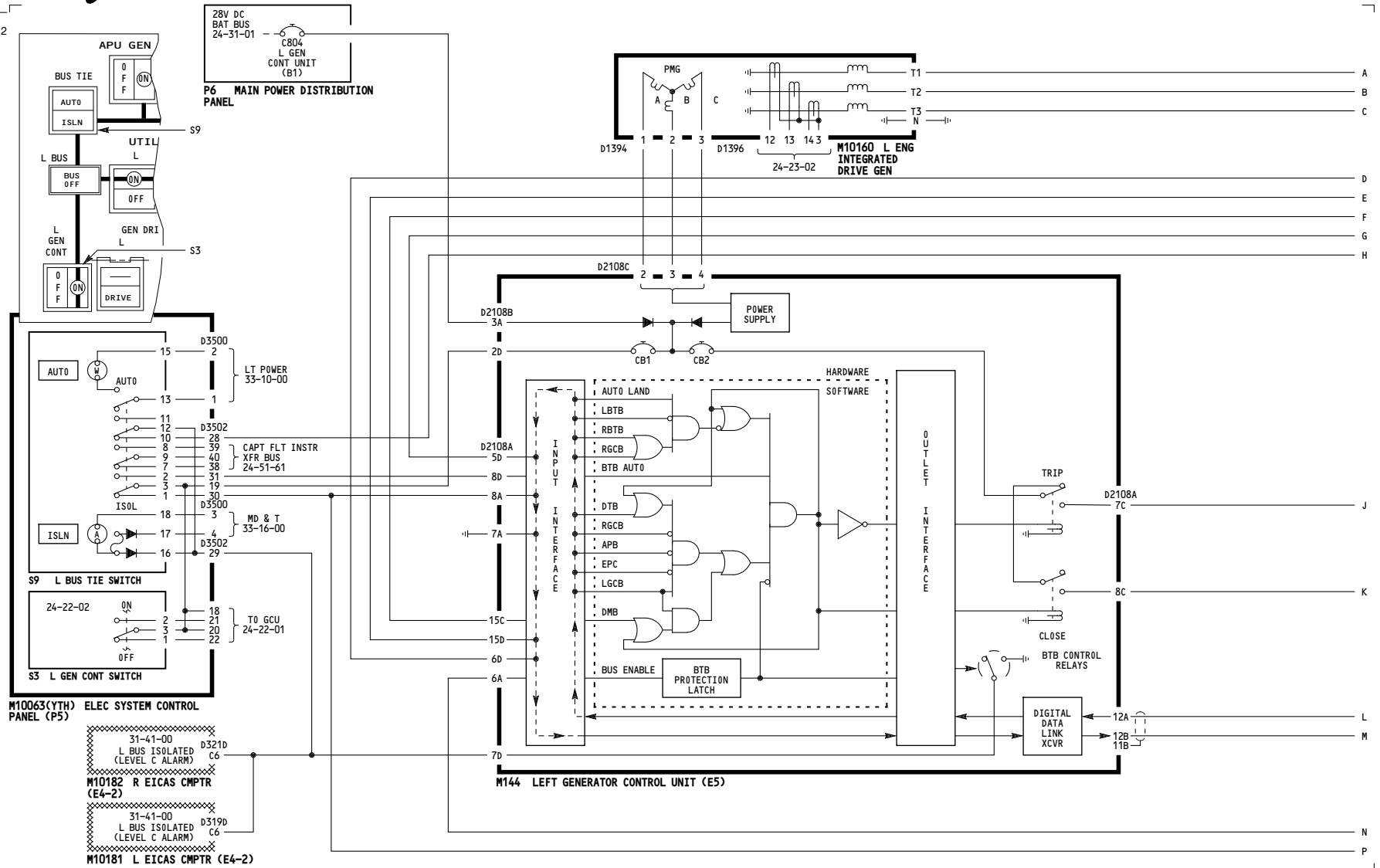
24-22-06

Page 101

May 06/2009

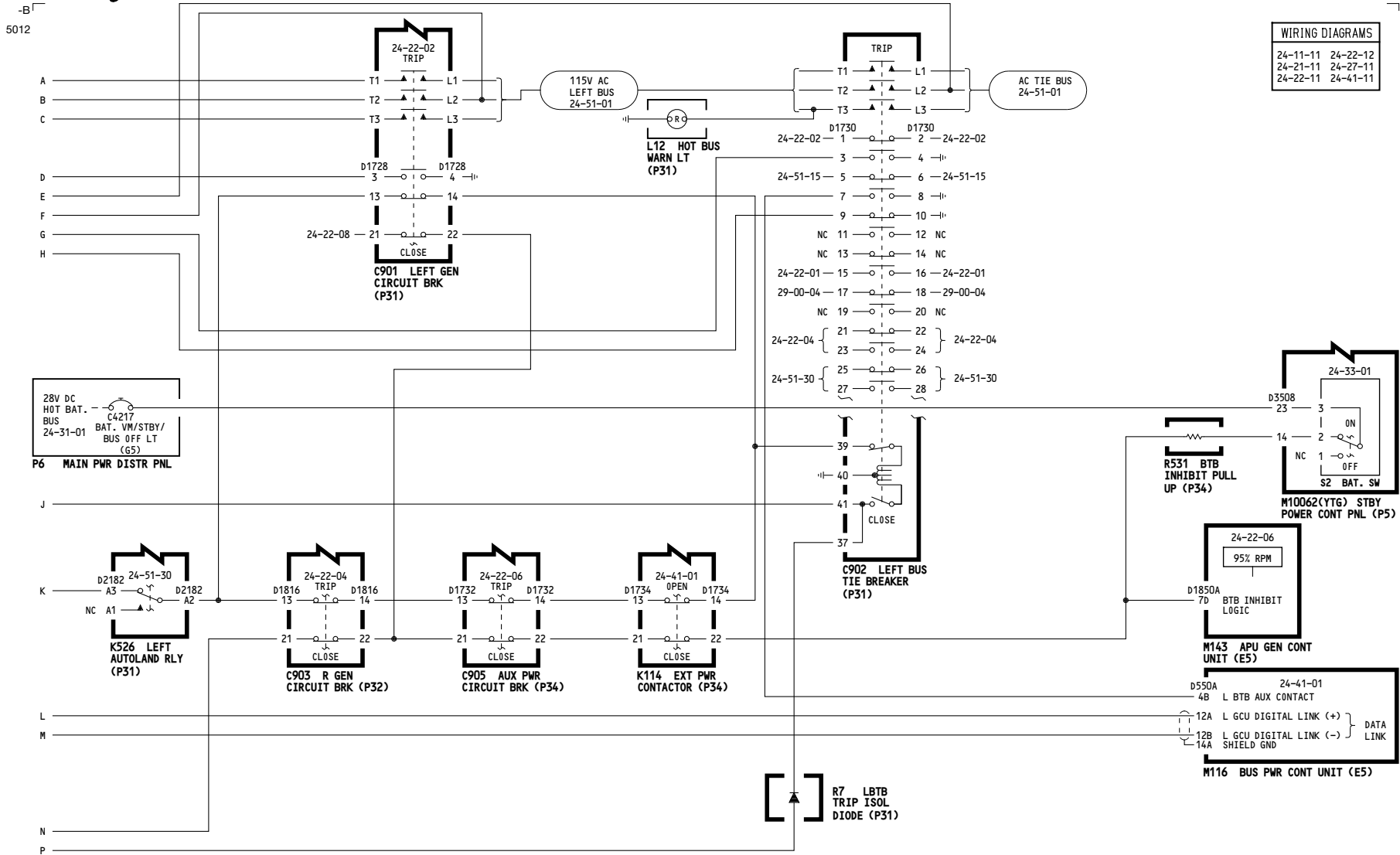
THIS PAGE INTENTIONALLY LEFT BLANK

5012



ALL	<p>LEFT BUS TIE BREAKER CONTROL</p> <p>D280N032S</p>
-----	---

24-22-07

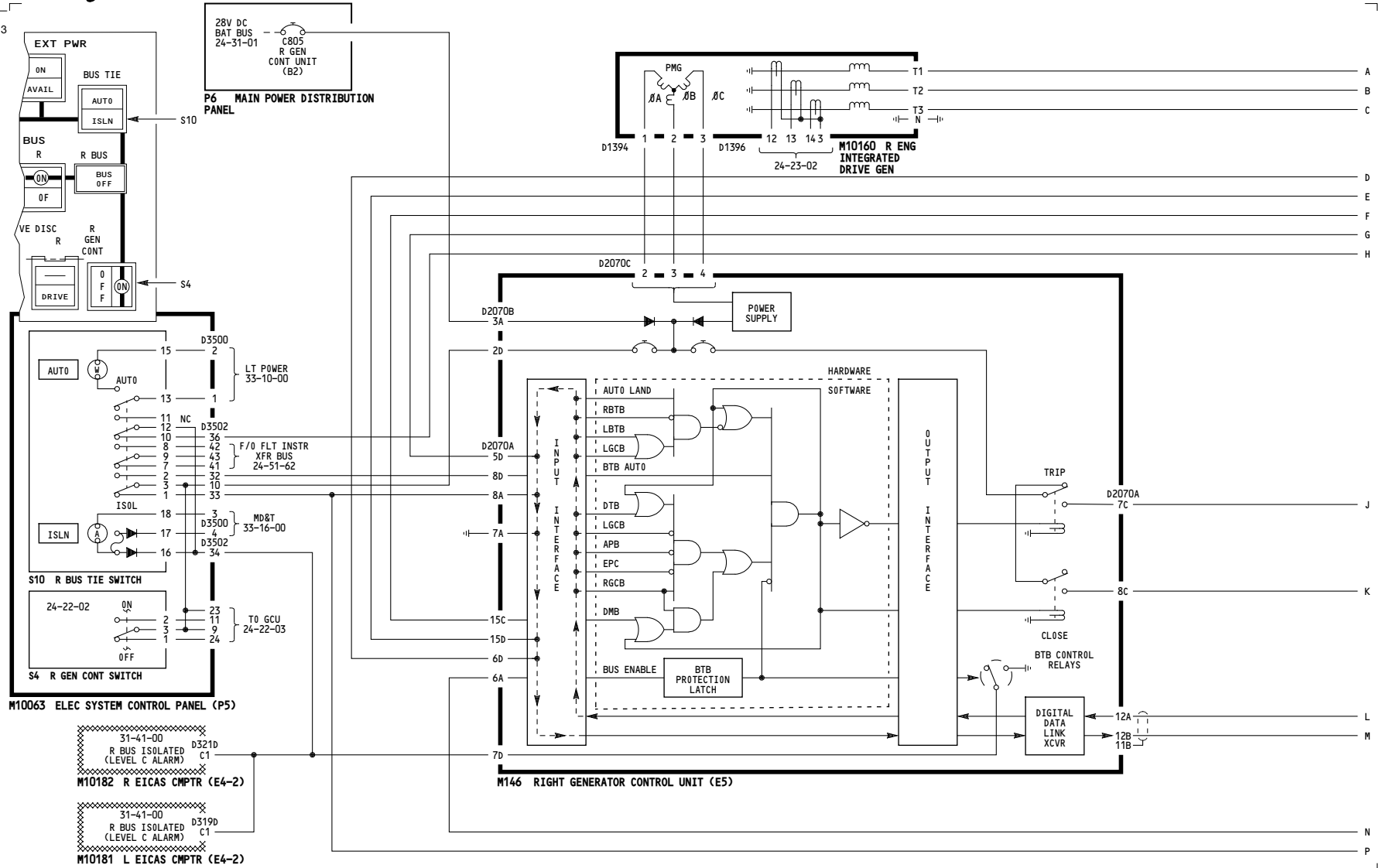


WIRING DIAGRAMS	
24-11-11	24-22-12
24-21-11	24-27-11
24-22-11	24-41-11

ALL	<p>LEFT BUS TIE BREAKER CONTROL</p> <p>D280N032S</p>
-----	---

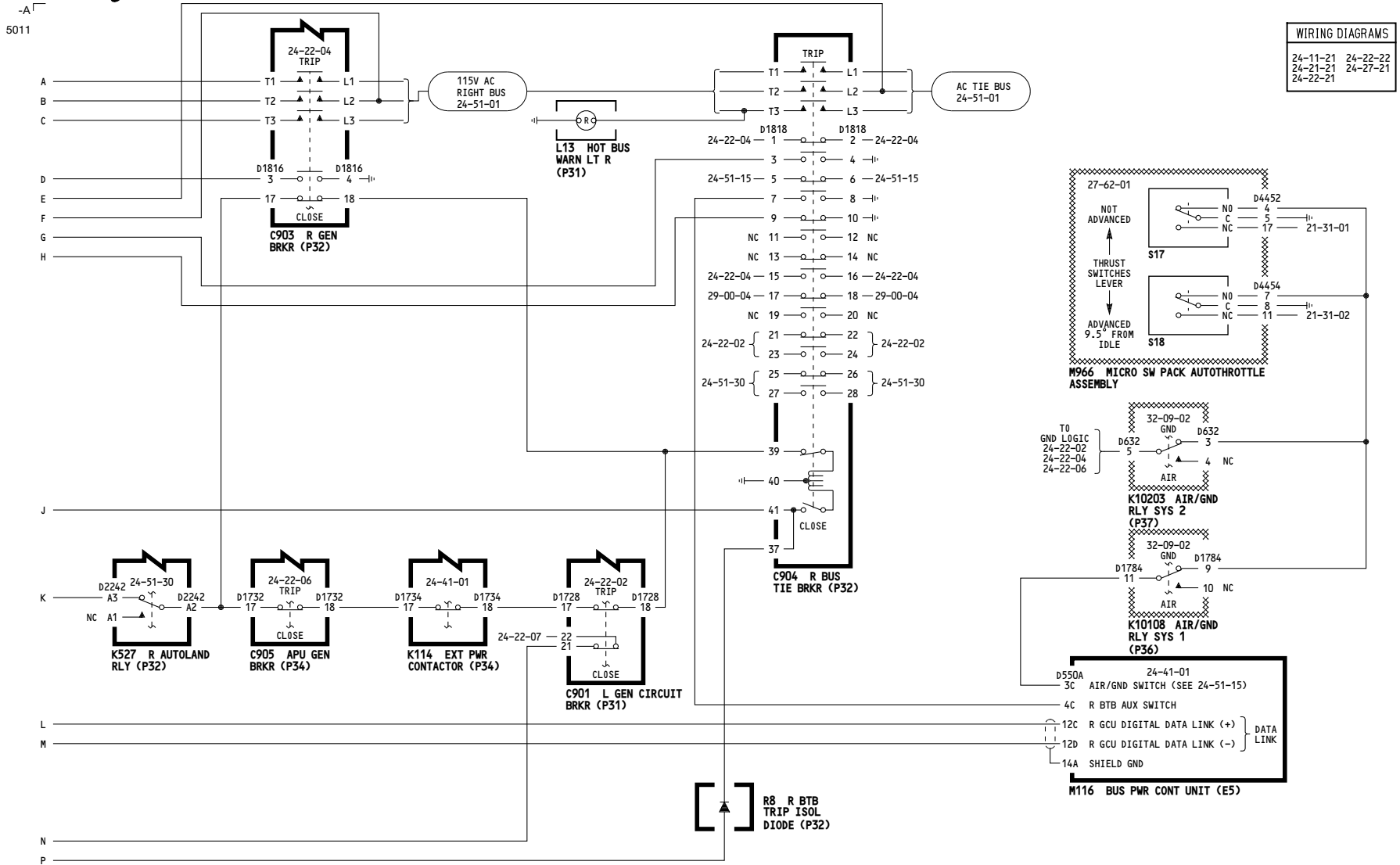
24-22-07

5013

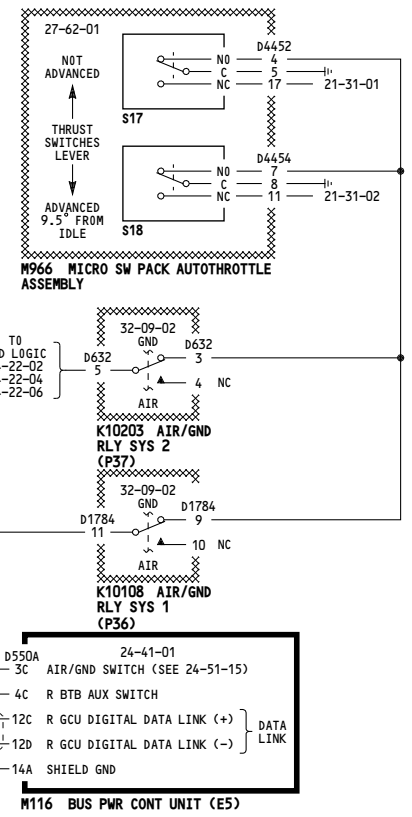


ALL	<p>RIGHT BUS TIE BREAKER CONTROL</p> <p>D280N032S</p>
-----	--

24-22-08



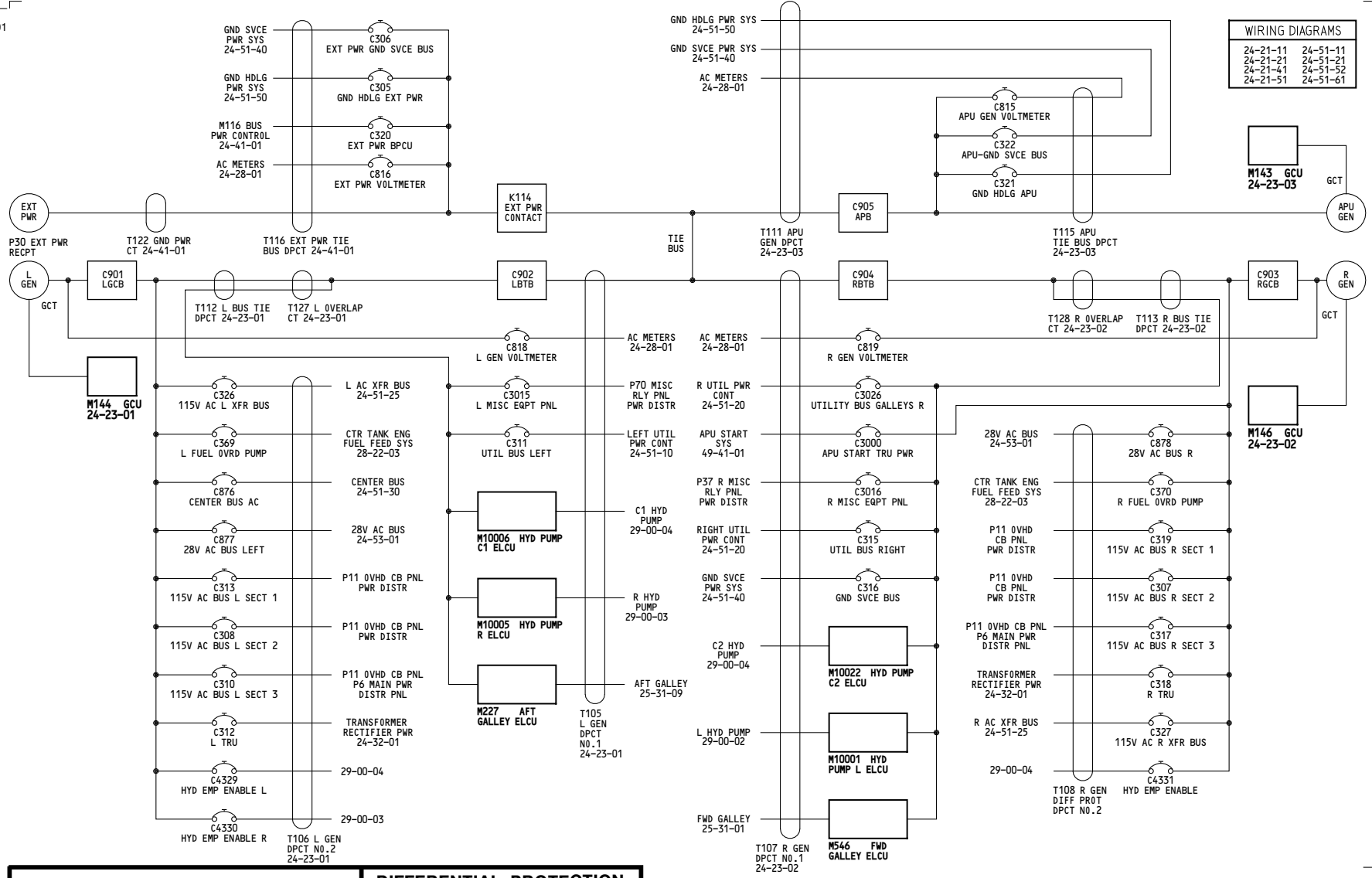
WIRING DIAGRAMS	
24-11-21	24-22-22
24-21-21	24-27-21
24-22-21	



ALL	<p>RIGHT BUS TIE BREAKER CONTROL</p> <p>D280N032S</p>
-----	--

24-22-08

5201



WIRING DIAGRAMS	
24-21-11	24-51-11
24-21-21	24-51-21
24-51-41	24-51-52
24-21-51	24-51-61

001-002

DIFFERENTIAL PROTECTION SYSTEM - SIMPLIFIED

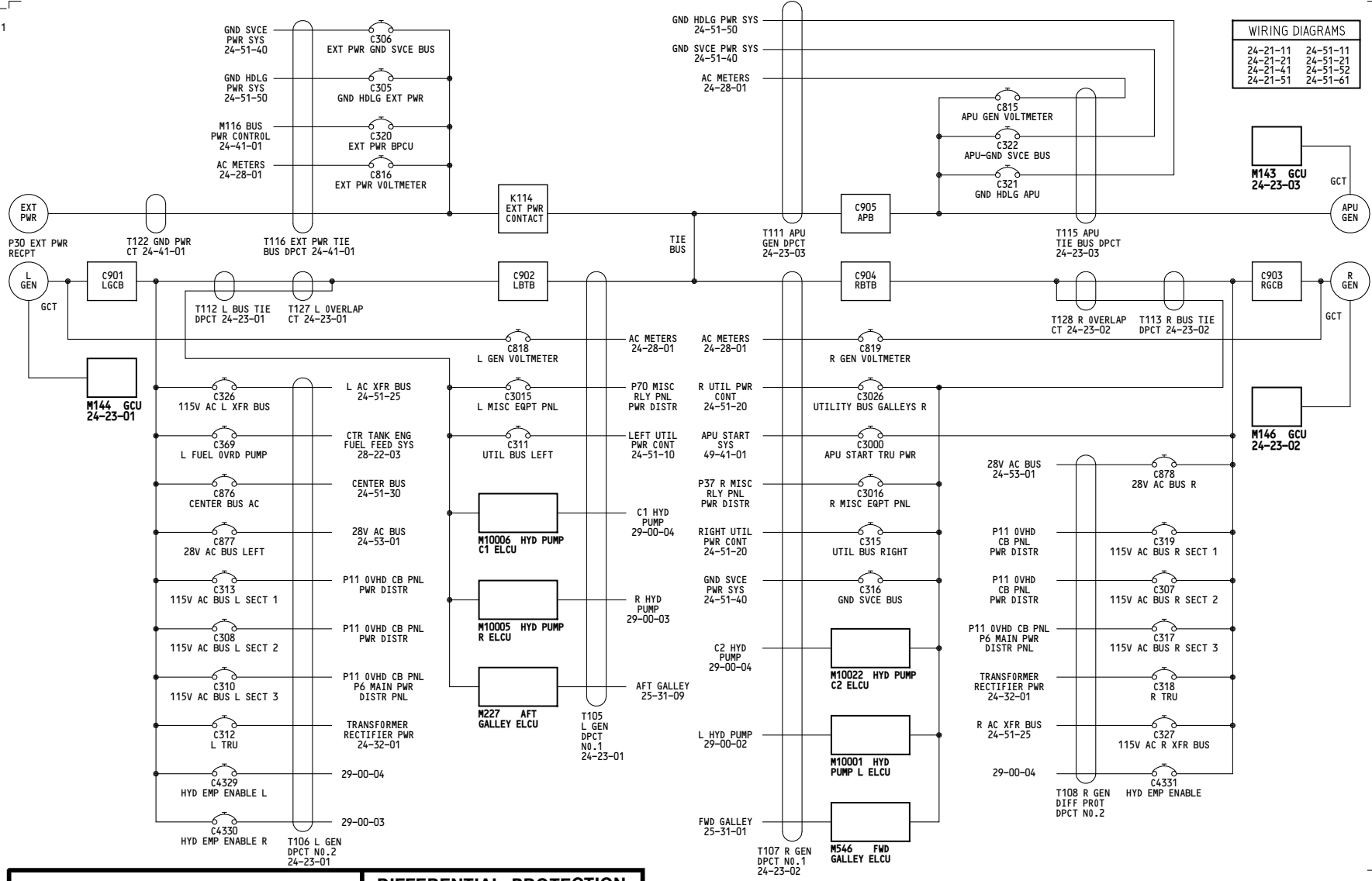
D280N032S

24-23-00

Page 101

Jan 21/2005

5211

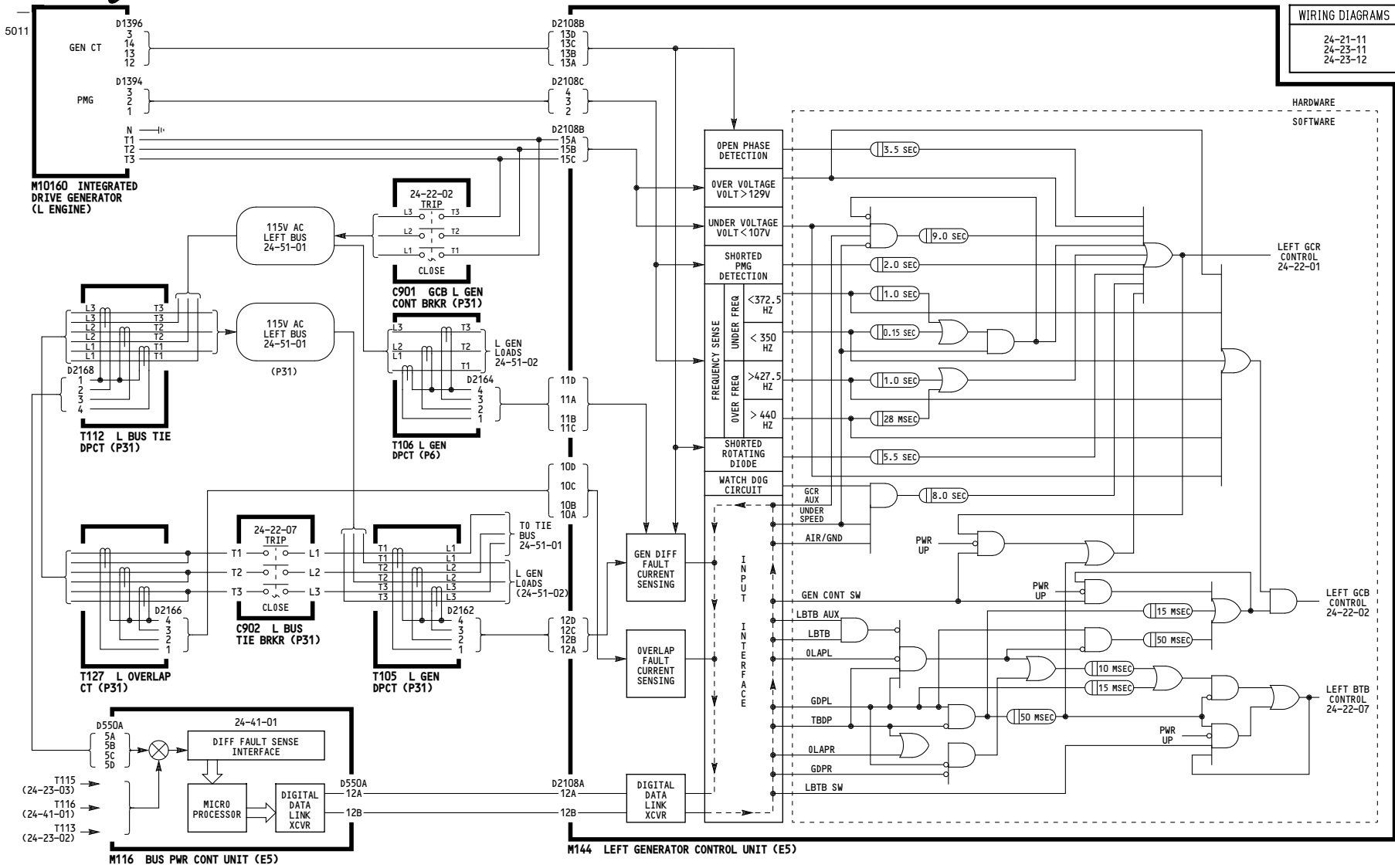


003-099

DIFFERENTIAL PROTECTION SYSTEM - SIMPLIFIED

D280N032S

24-23-00



WIRING DIAGRAMS
24-21-11
24-23-11
24-23-12

HARDWARE
SOFTWARE

LEFT GCR CONTROL
24-22-01

LEFT GCB CONTROL
24-22-02

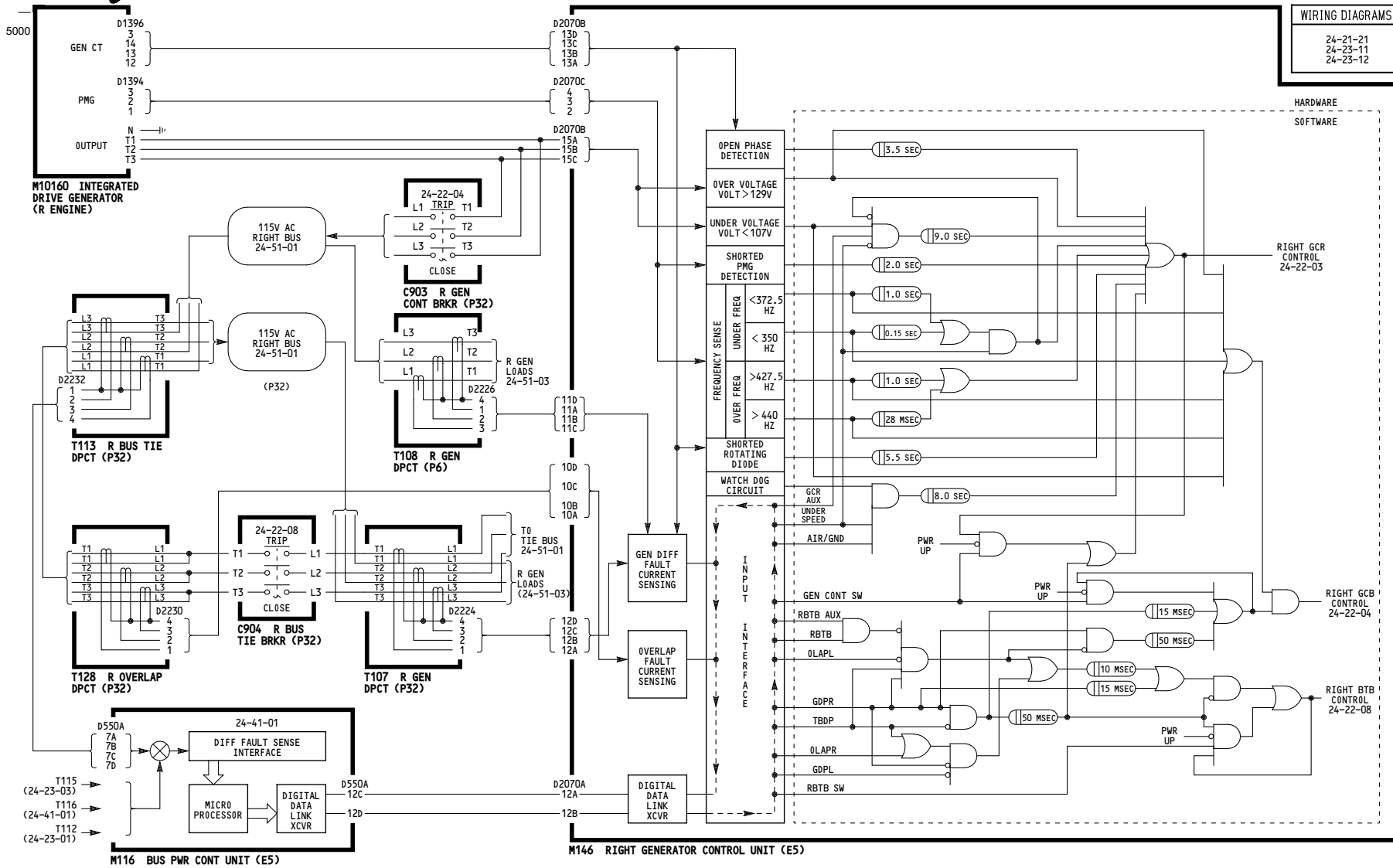
LEFT BTB CONTROL
24-22-07

ALL

LEFT GENERATOR DIFFERENTIAL PROTECTION

D280N032S

24-23-01



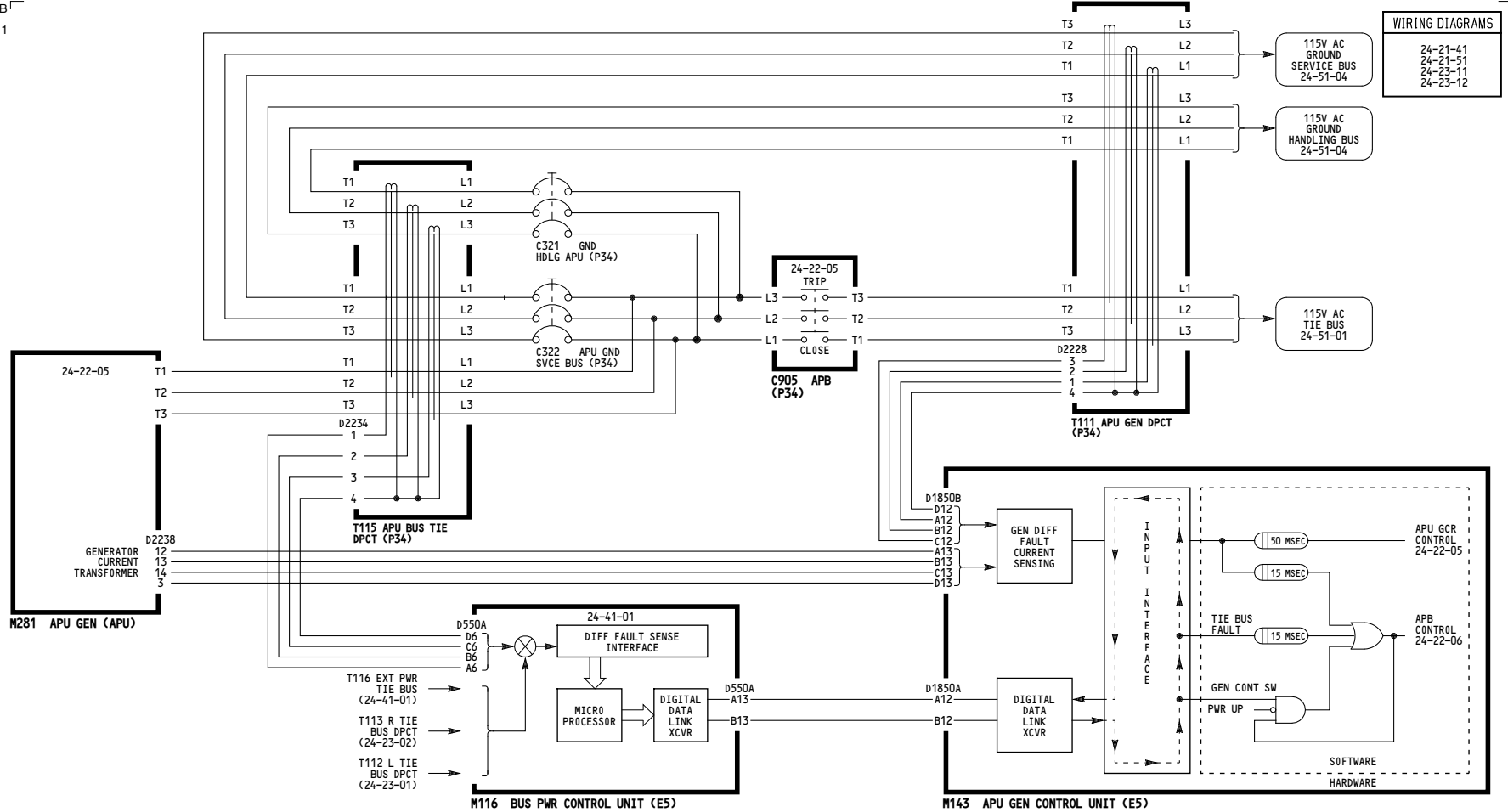
ALL

RIGHT GENERATOR DIFFERENTIAL PROTECTION

D280N032S

24-23-02

-B
5011



ALL	<p align="center">APU GENERATOR DIFFERENTIAL PROTECTION</p> <p align="center">D280N032S</p>
-----	--

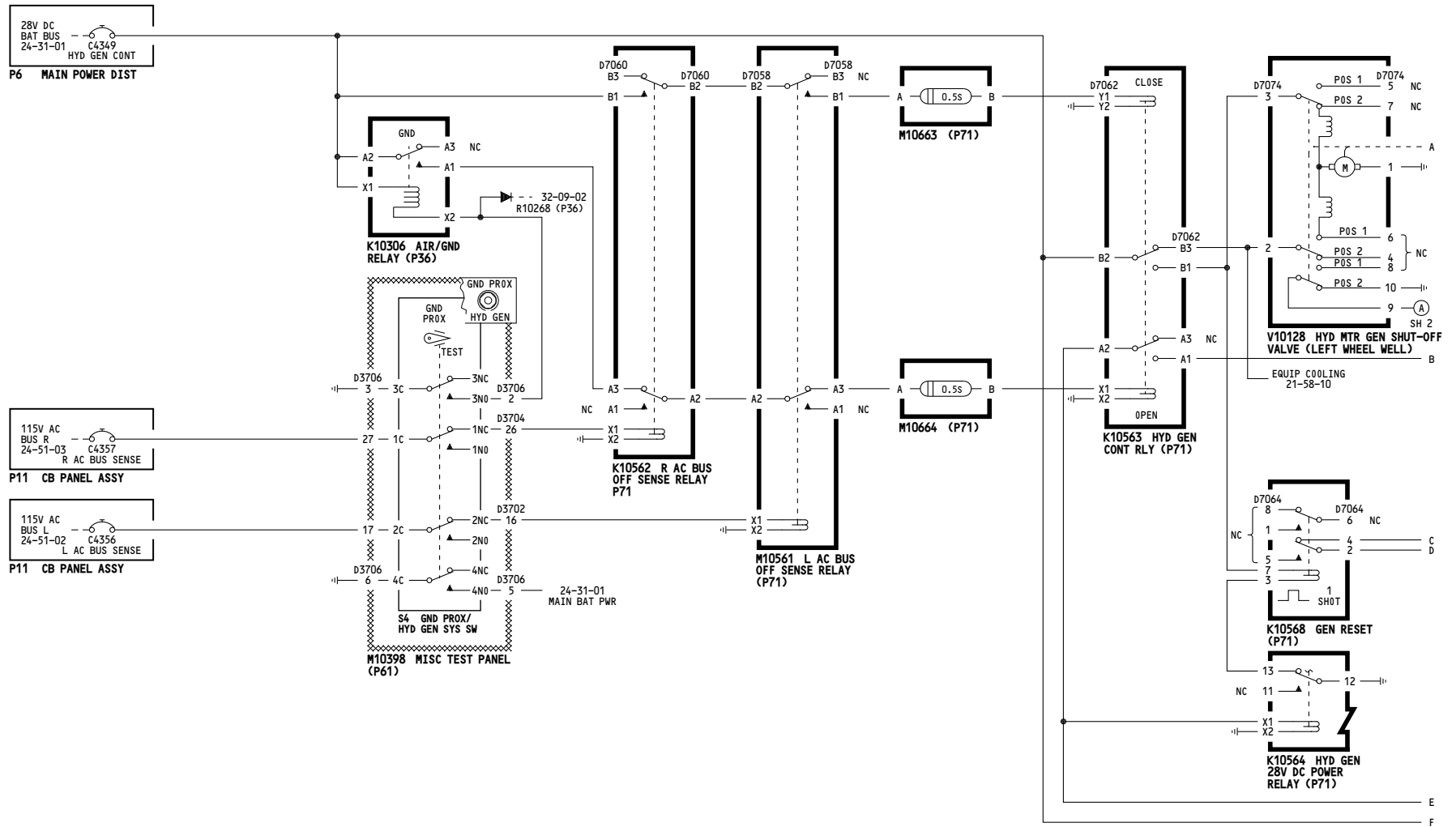
24-23-03

Page 101

May 06/2009

THIS PAGE INTENTIONALLY LEFT BLANK

5000

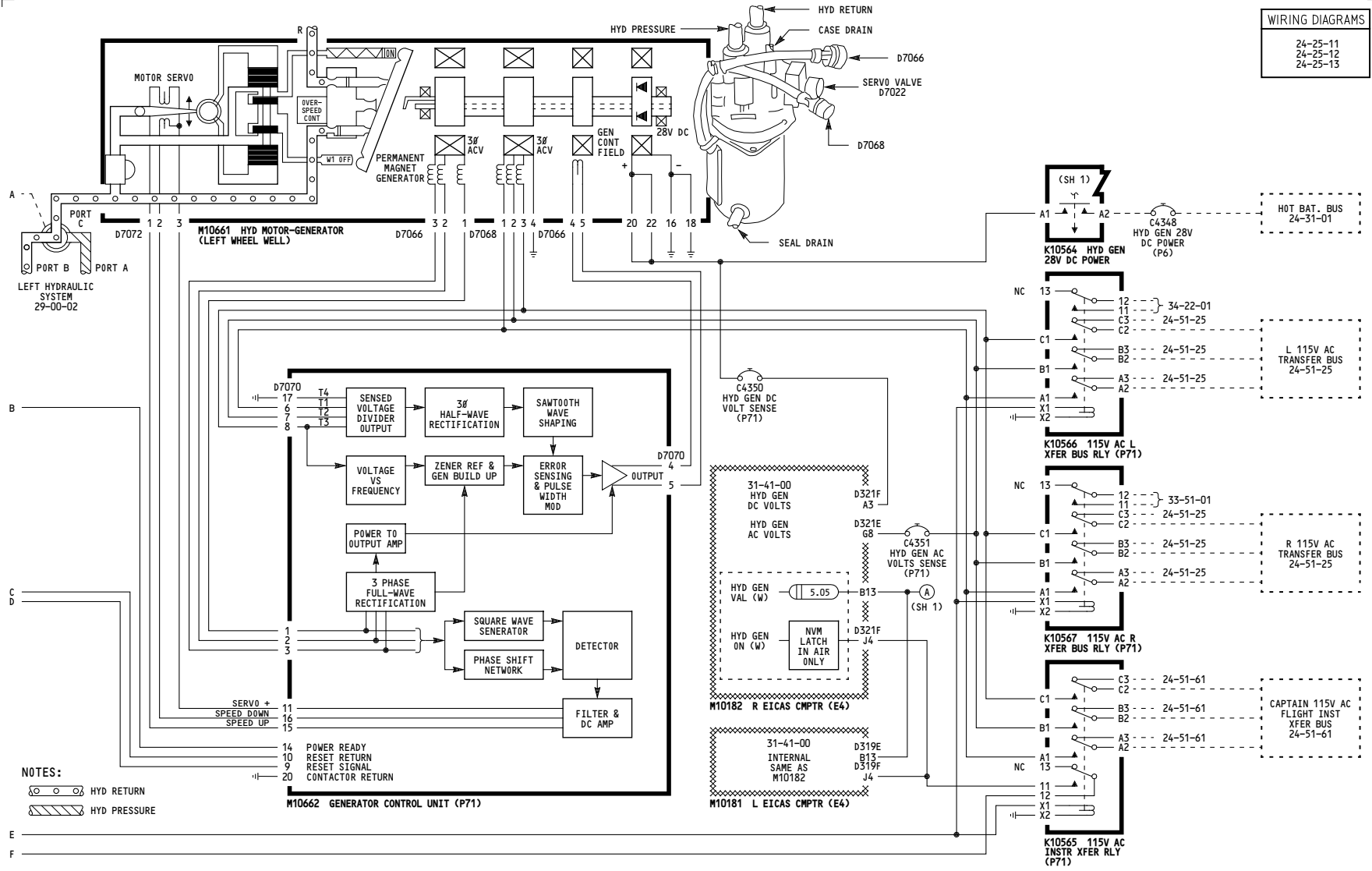


001-002	<p align="center">HYDRAULIC GENERATOR CONTROL</p> <p align="center">D280N032S</p>
---------	--

24-25-01

5000

WIRING DIAGRAMS
24-25-11
24-25-12
24-25-13



NOTES:

- HYD RETURN
- HYD PRESSURE

001-002

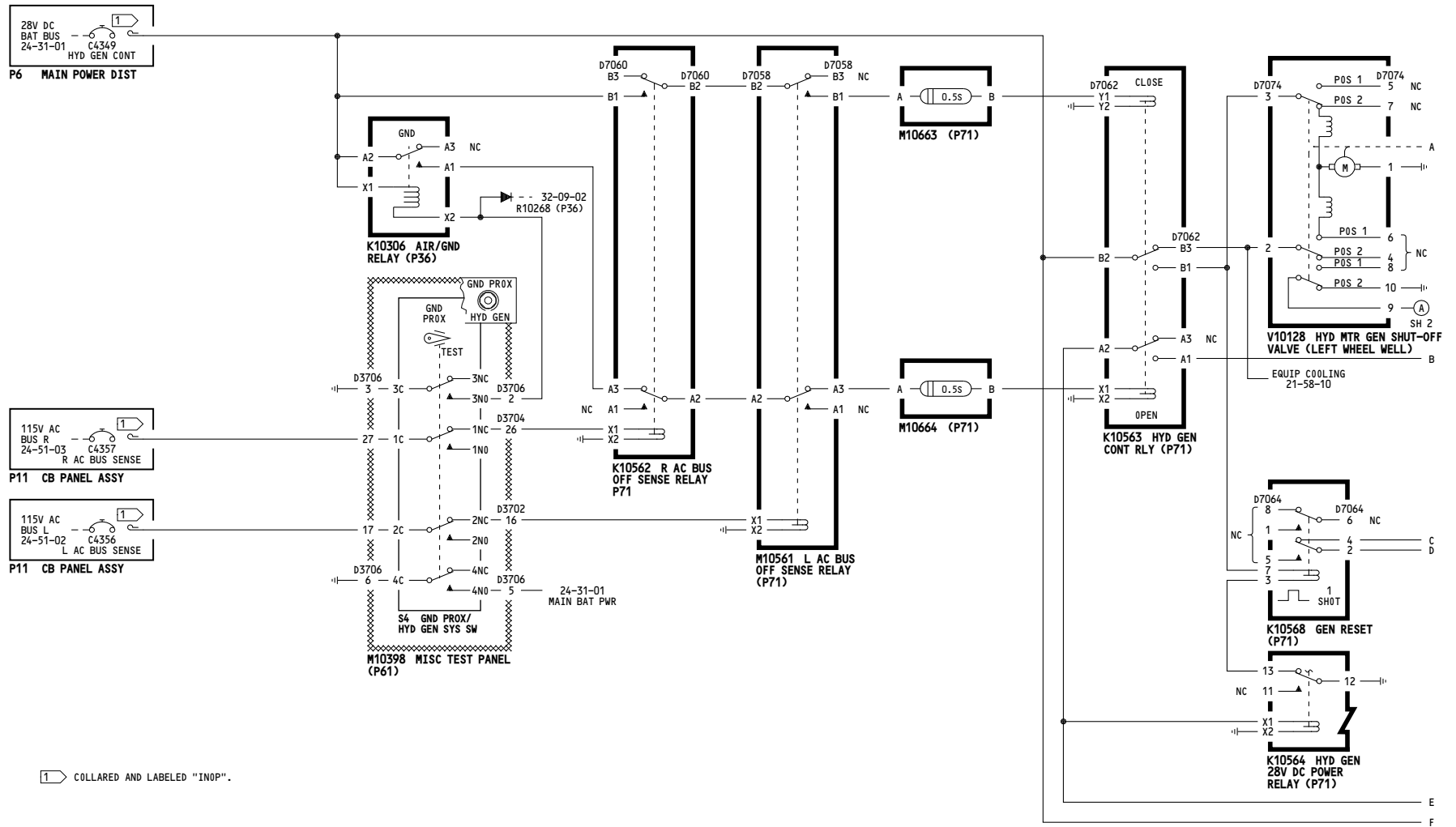
HYDRAULIC GENERATOR CONTROL

D280N032S

24-25-01

Page 101
Sheet 2
May 06/2009

5219



1 COLLARED AND LABELED "INOP".

001	<p>HYDRAULIC GENERATOR CONTROL</p> <p>D280N032S</p>
-----	--

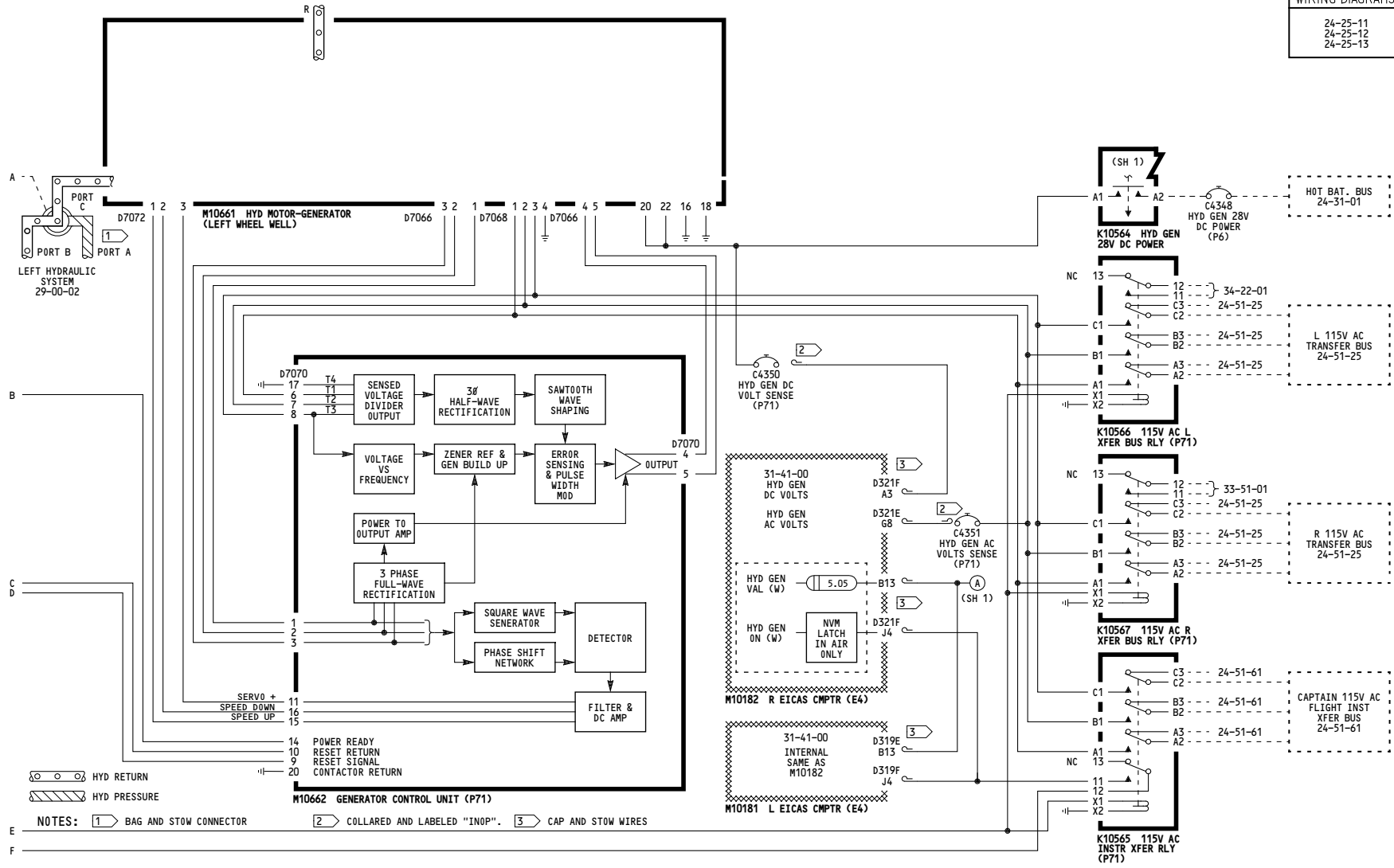
Incorporates 24-0131

24-25-01

Page 101.1
Sheet 1
May 06/2009

5223

WIRING DIAGRAMS
24-25-11
24-25-12
24-25-13

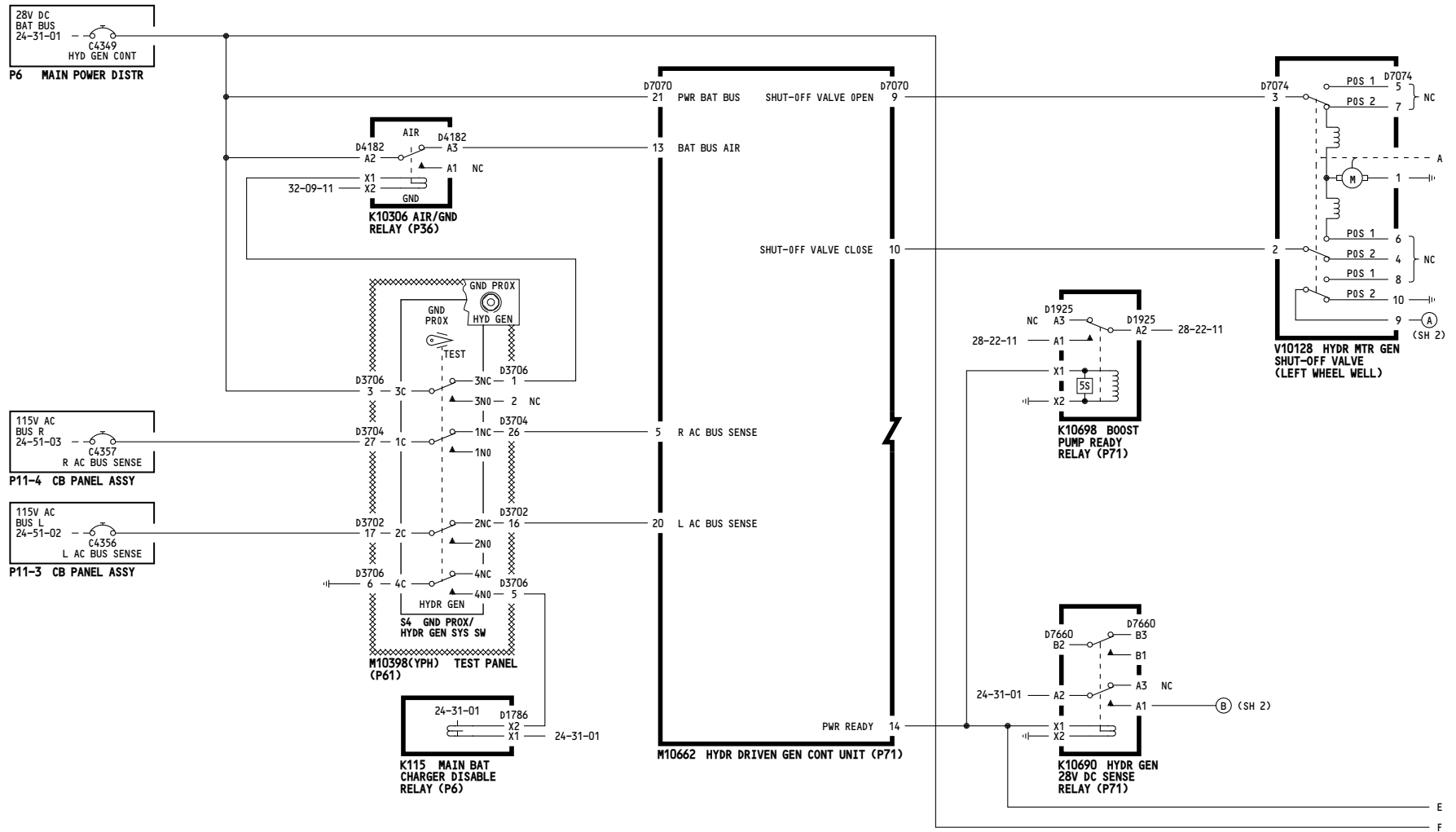


001	<p>HYDRAULIC GENERATOR CONTROL</p> <p>D280N032S</p>	<p>Incorporates 24-0131</p>
-----	--	---------------------------------

24-25-01

Page 101.1
Sheet 2
May 06/2009

5200

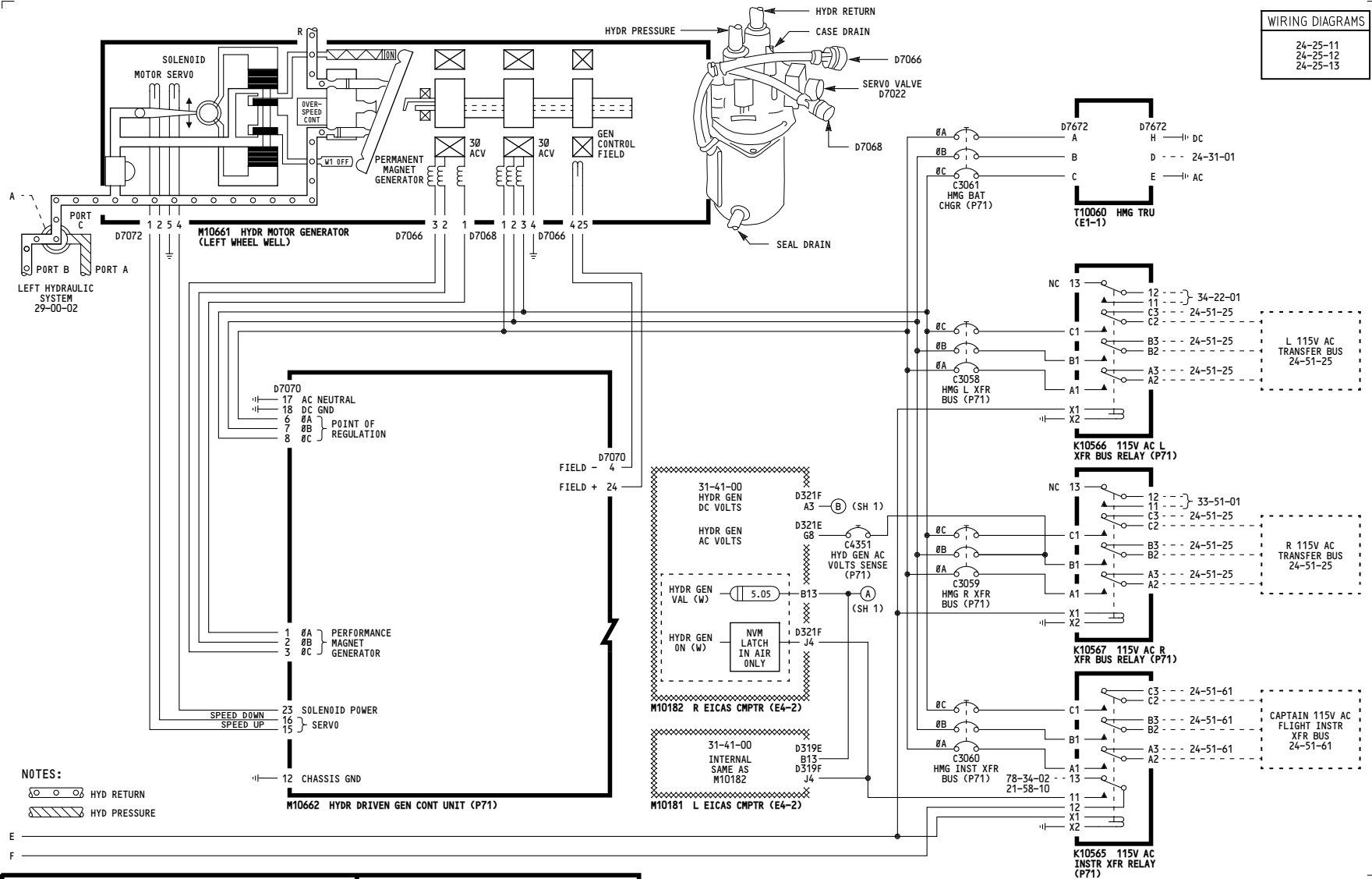


003-099	<p align="center">HYDRAULIC GENERATOR CONTROL</p> <p align="center">D280N032S</p>
---------	--

24-25-01

5200

WIRING DIAGRAMS
24-25-11
24-25-12
24-25-13



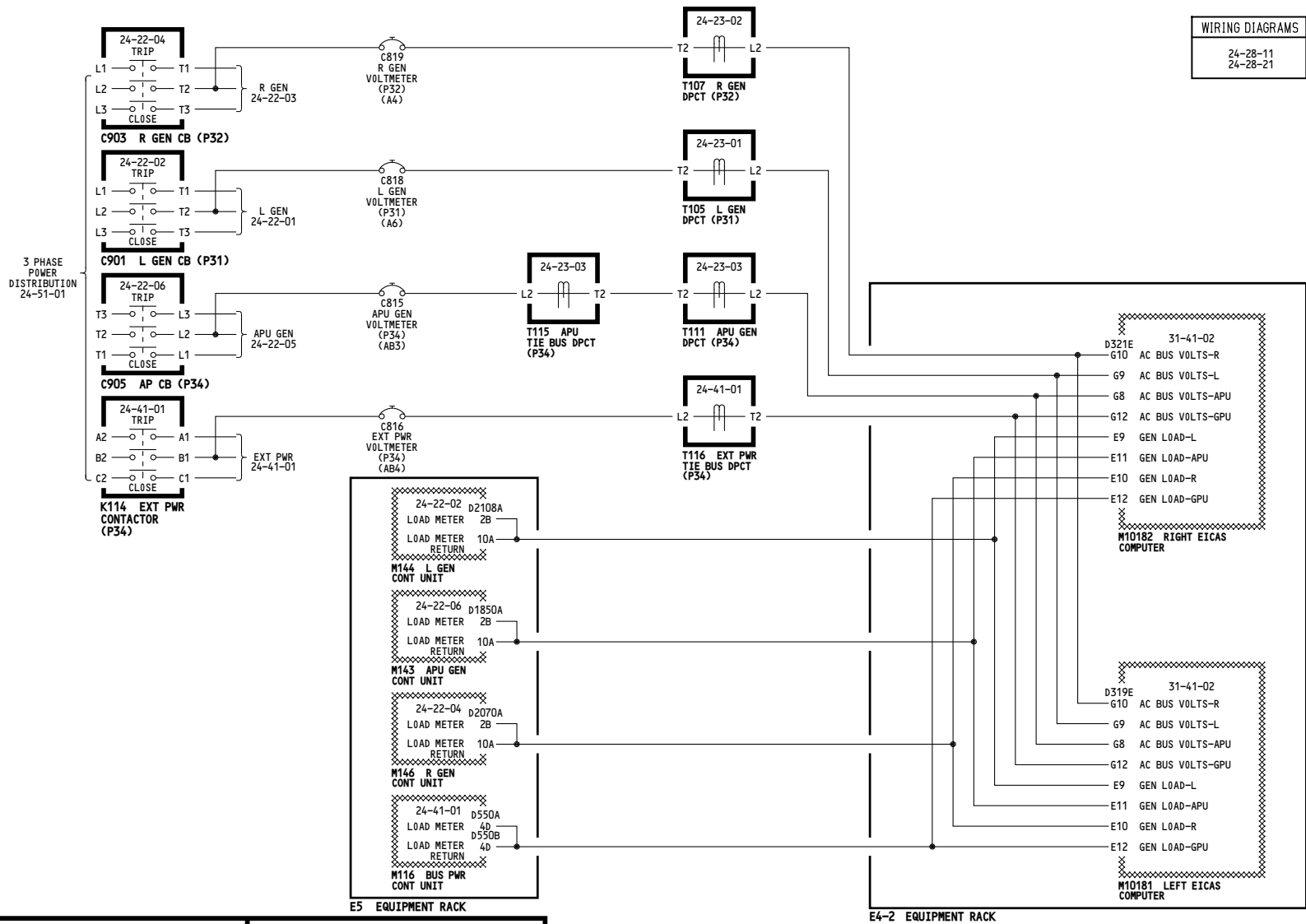
NOTES:
 HYD RETURN
 HYD PRESSURE

003-099	<p align="center">HYDRAULIC GENERATOR CONTROL</p> <p align="center">D280N032S</p>
---------	--

24-25-01

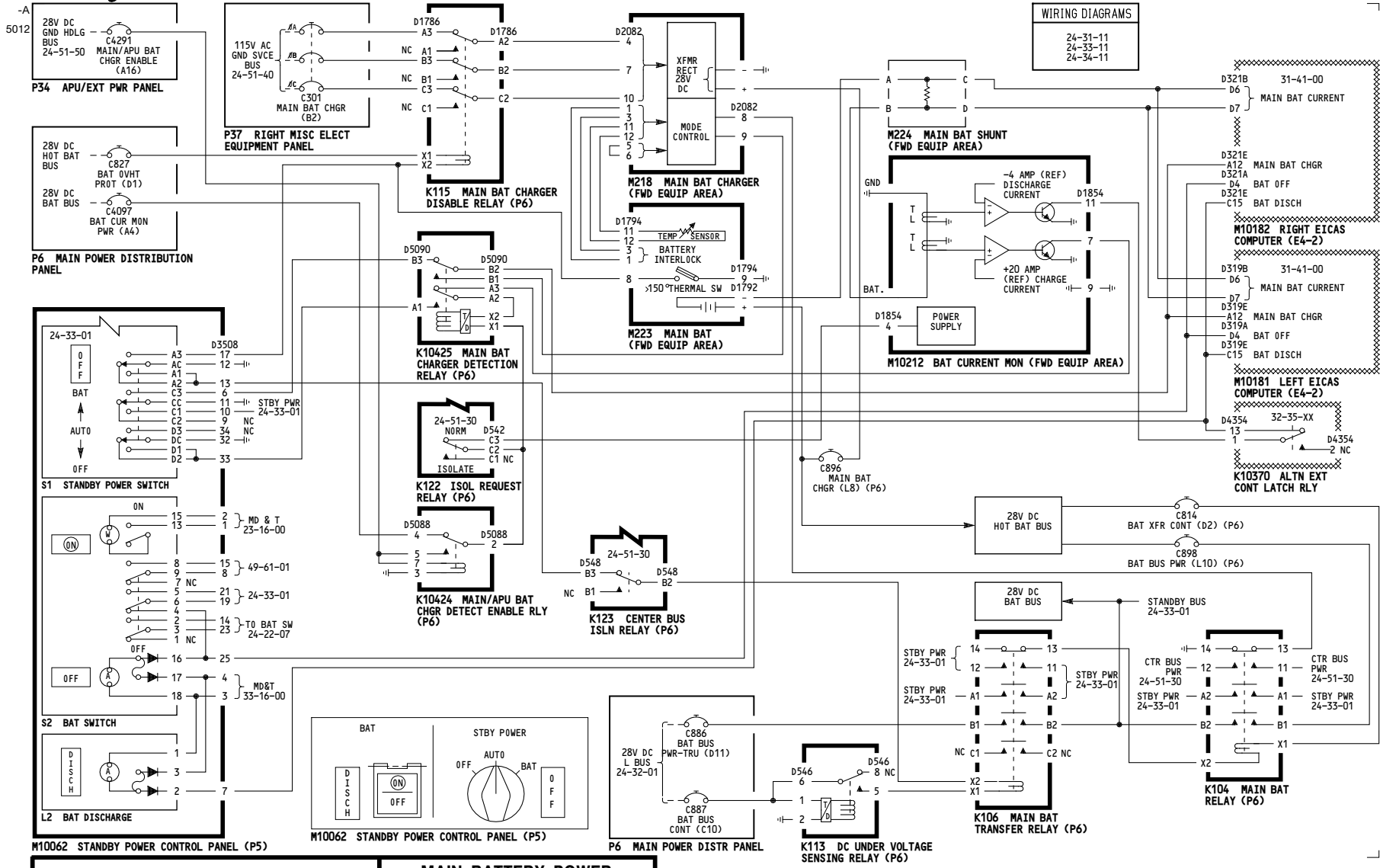
5011

WIRING DIAGRAMS
24-28-11
24-28-21



ALL	AC METERS
	D280N032S

24-28-01



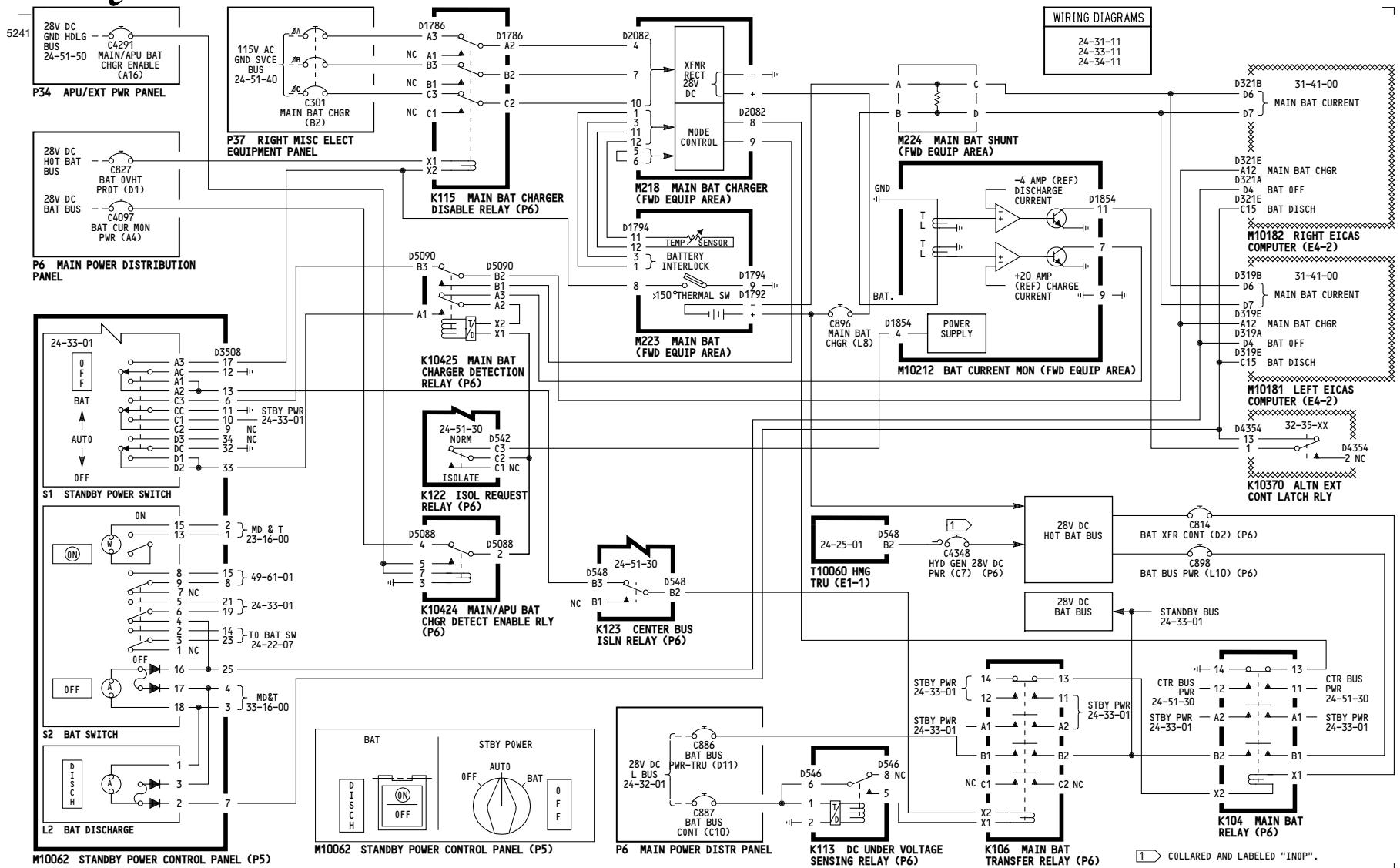
001-002

MAIN BATTERY POWER

D280N032S

24-31-01

WIRING DIAGRAMS
24-31-11
24-33-11
24-34-11



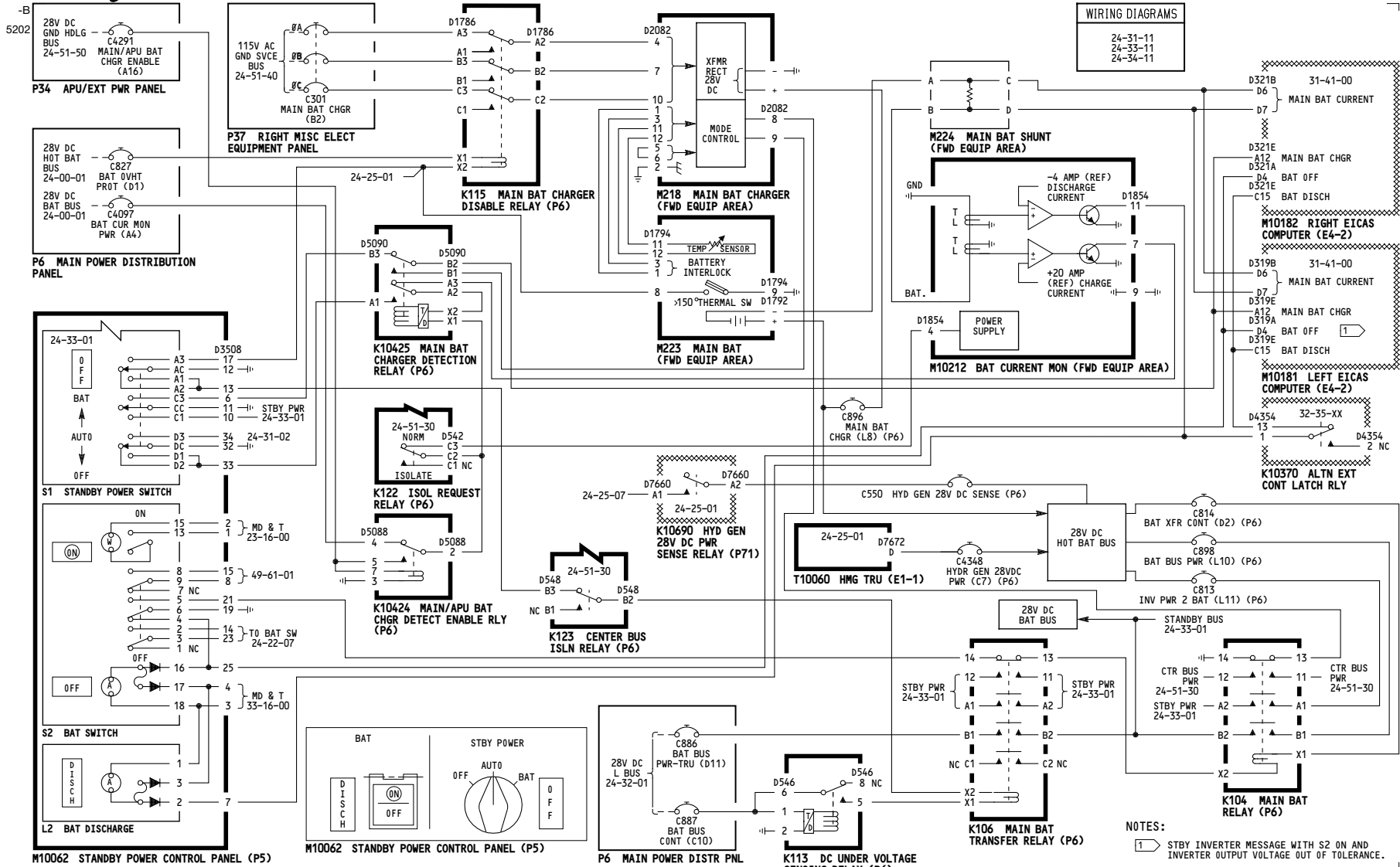
001

MAIN BATTERY POWER

Incorporates
24-0131

D280N032S

24-31-01



003-099

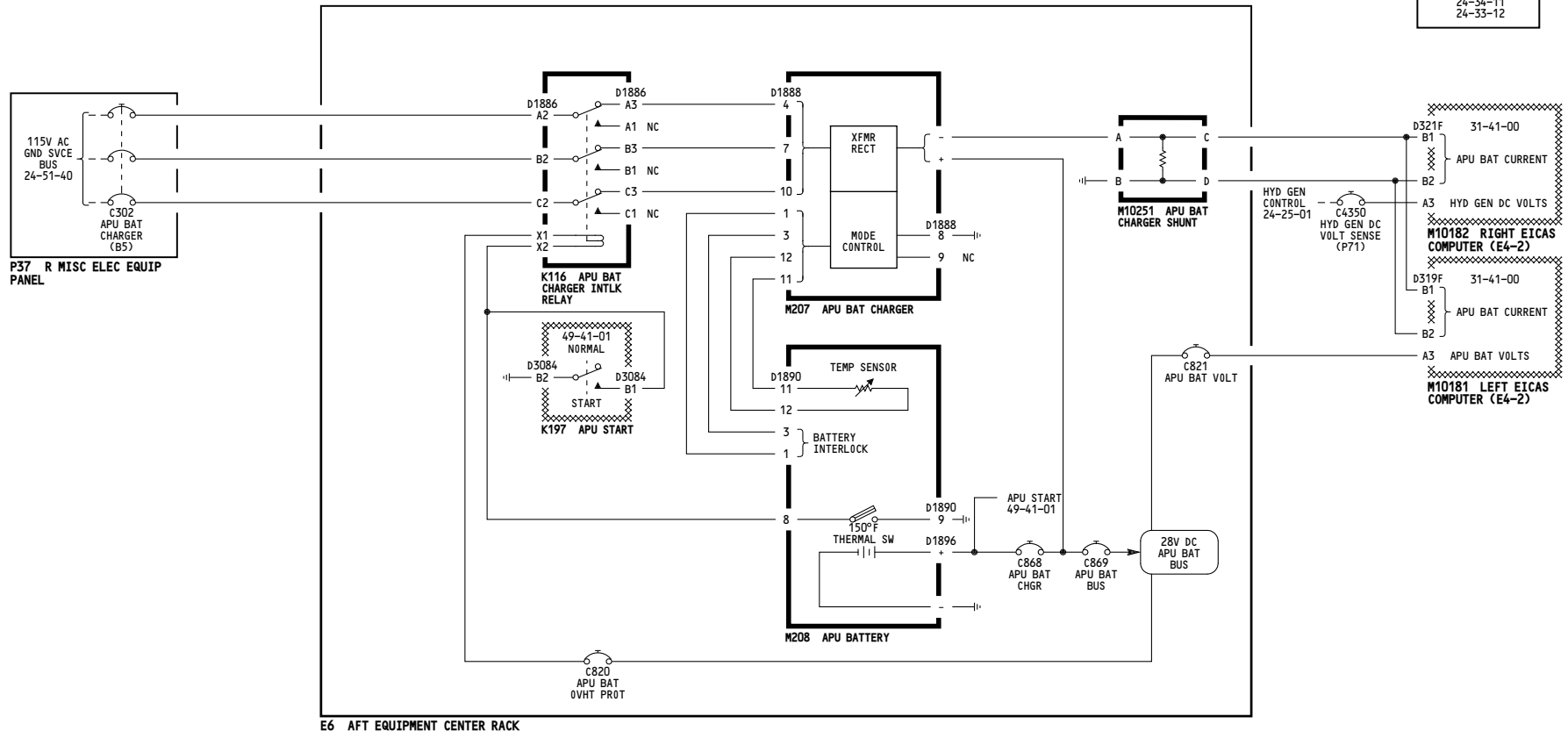
MAIN BATTERY POWER

D280N032S

24-31-01

5214

WIRING DIAGRAMS
24-31-41
24-34-11
24-33-12



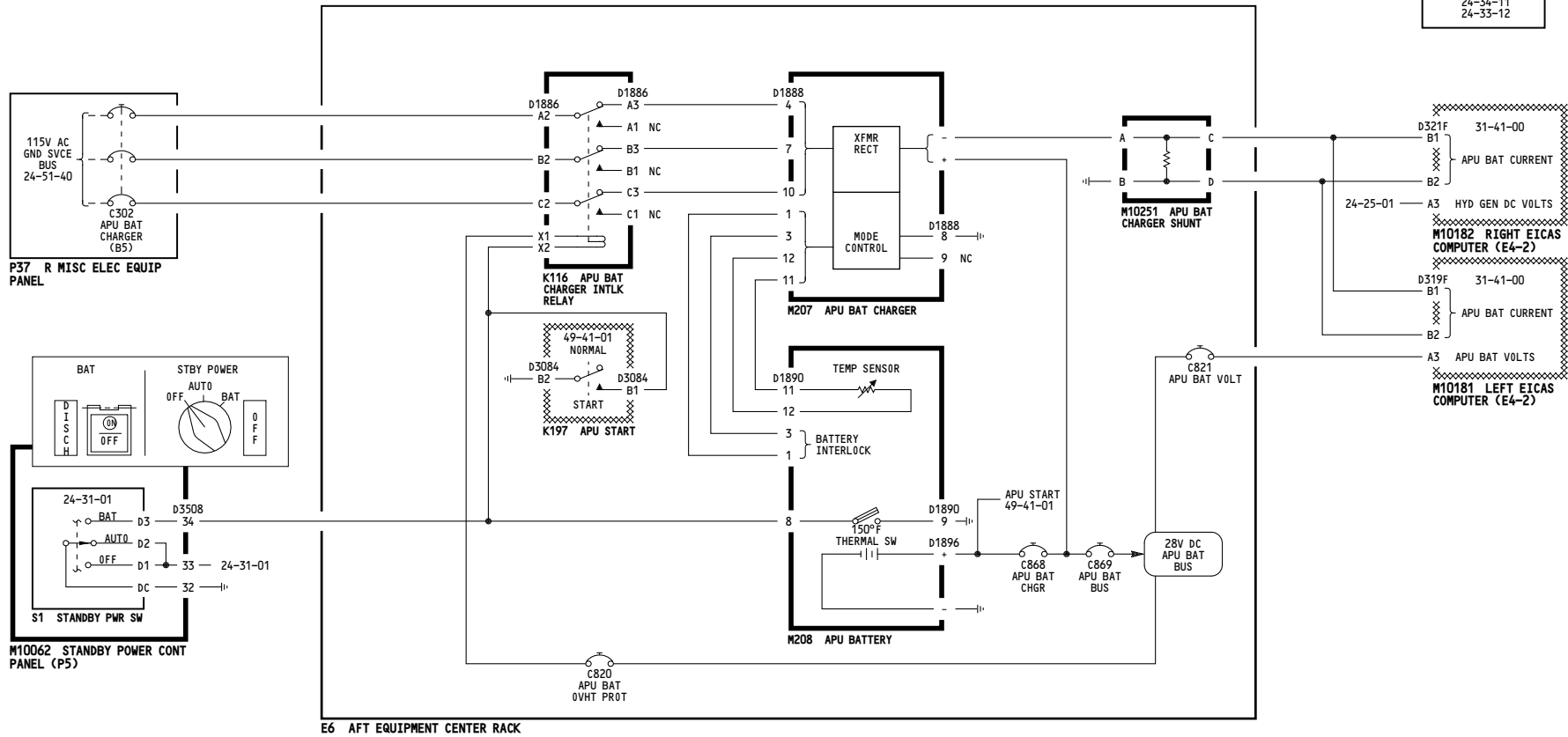
001-002	<p align="center">DC POWER SYSTEM - APU BATTERY</p> <p align="center">D280N032S</p>
---------	--

24-31-02

Page 101

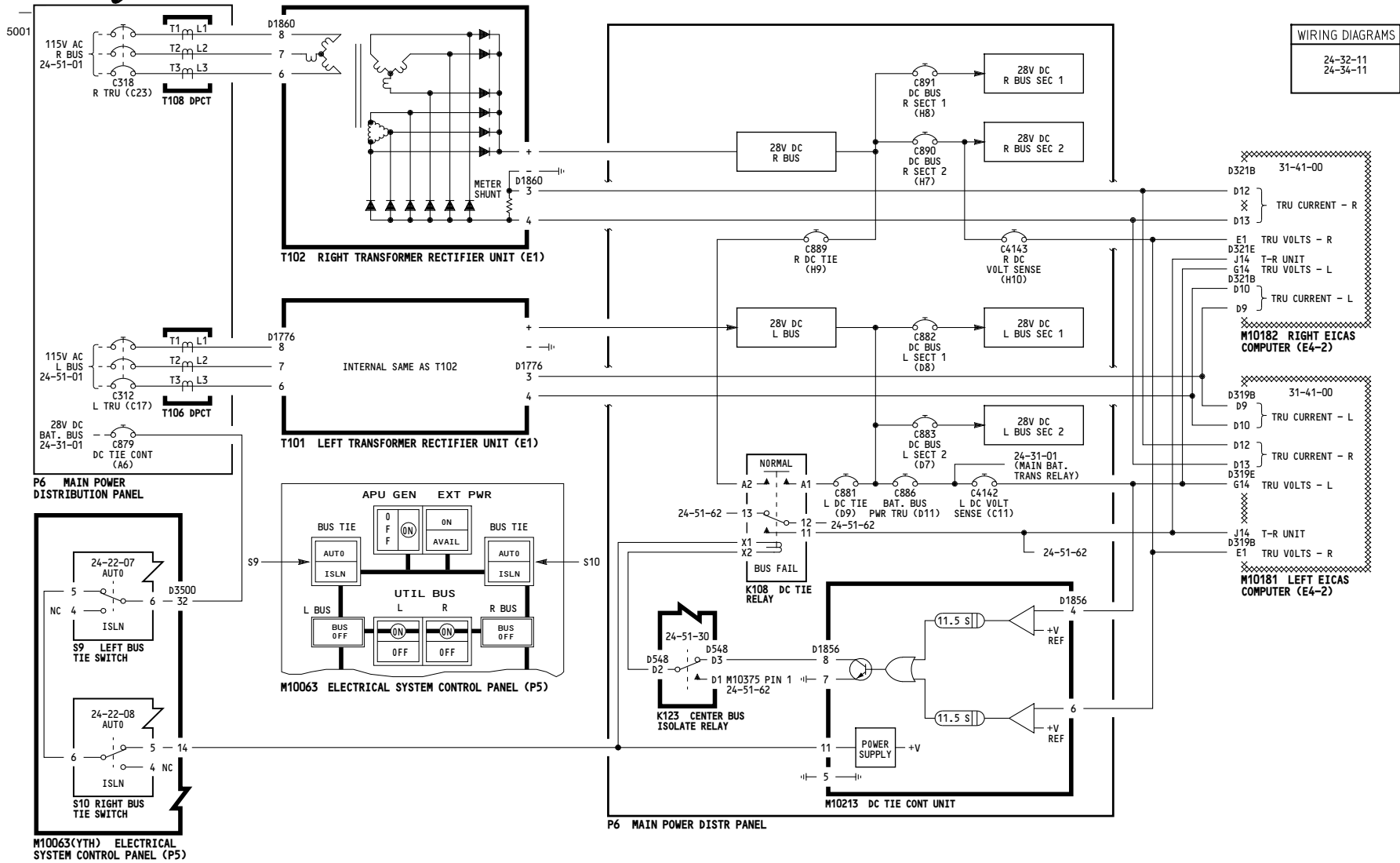
Jan 21/2005

WIRING DIAGRAMS
24-31-41
24-34-11
24-33-12



003-099	<p>DC POWER SYSTEM - APU BATTERY</p> <p>D280N032S</p>
---------	--

24-31-02

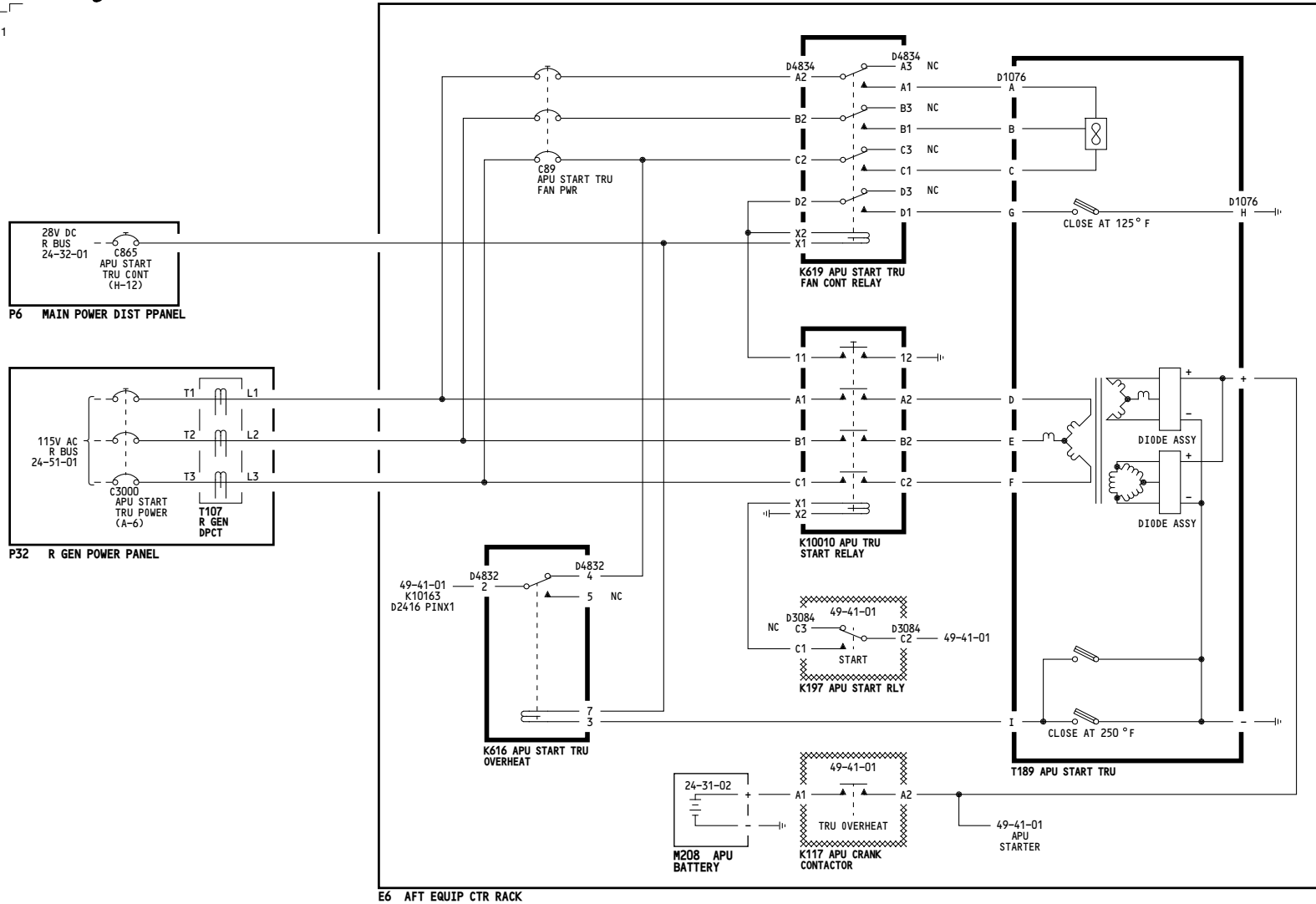


ALL	TRANSFORMER RECTIFIER POWER
	D280N032S

24-32-01

5011

WIRING DIAGRAMS
24-32-41
49-41-11



ALL

TRANSFORMER RECTIFIER UNIT - APU

D280N032S

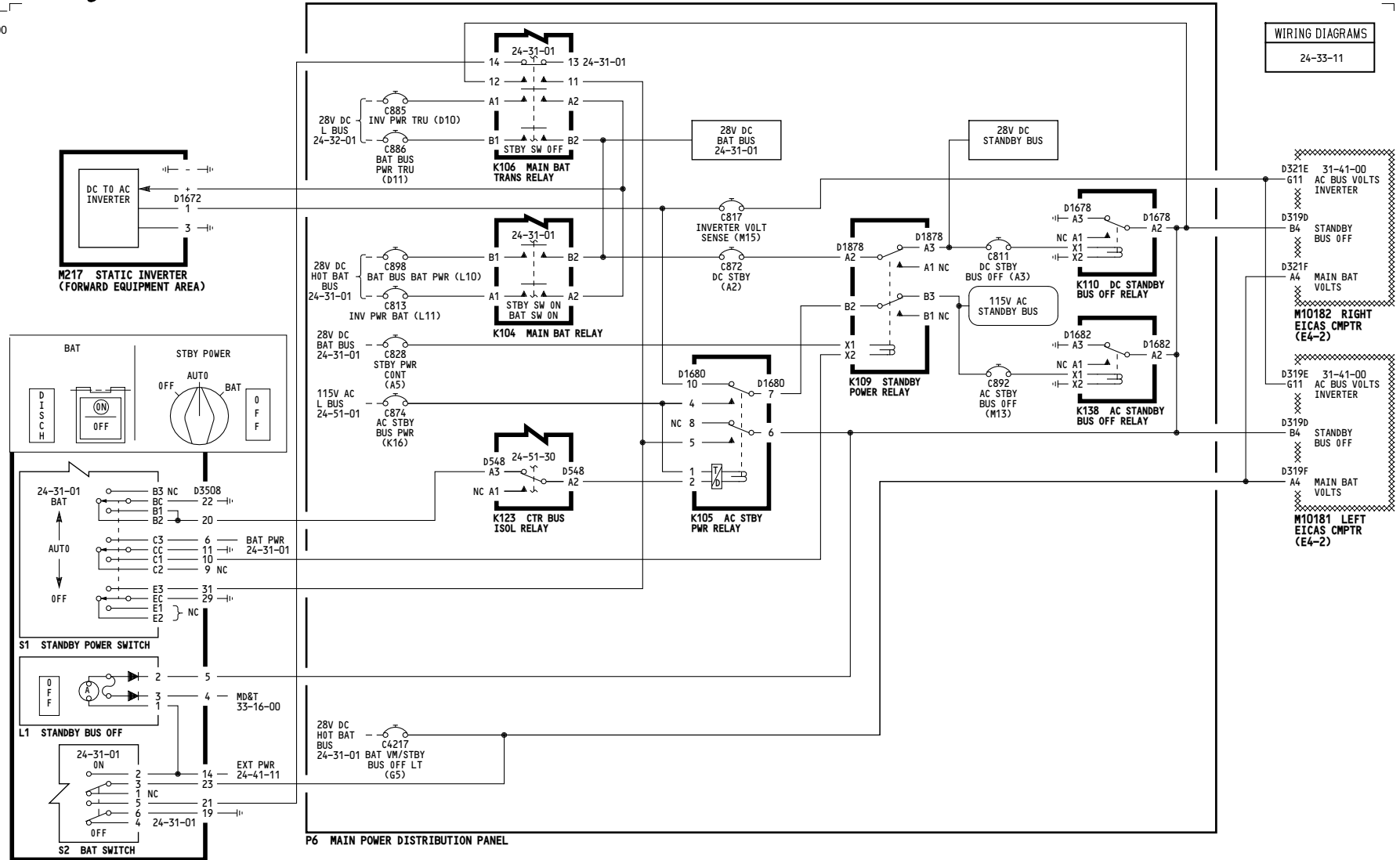
24-32-02

Page 101

May 06/2009

5000

WIRING DIAGRAMS
24-33-11



M10062 STBY PWR CONT PNL (P5)

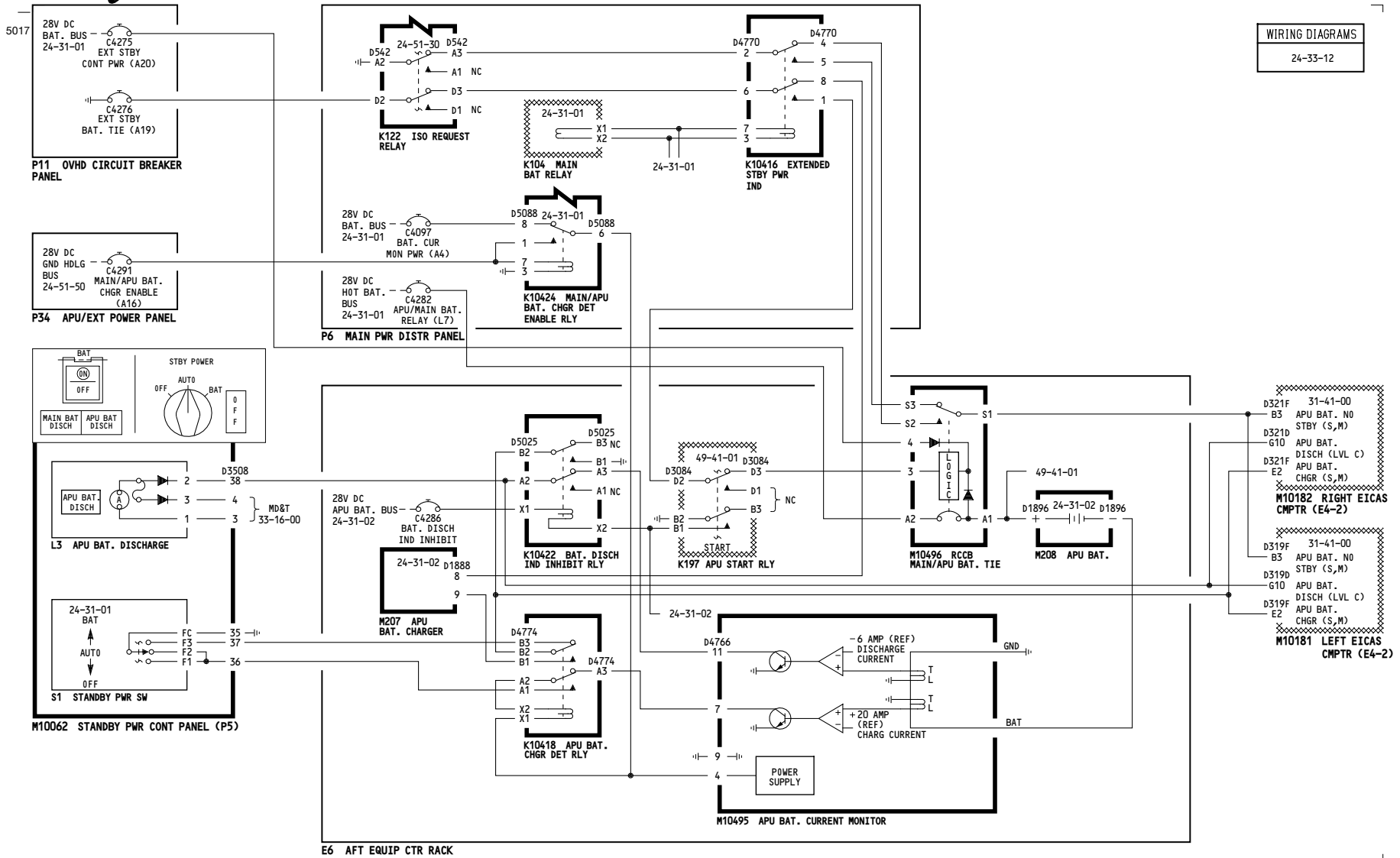
ALL	STANDBY POWER SYSTEM
	D280N032S

24-33-01

Page 101

May 06/2009

WIRING DIAGRAMS
24-33-12



001-008, 010-099

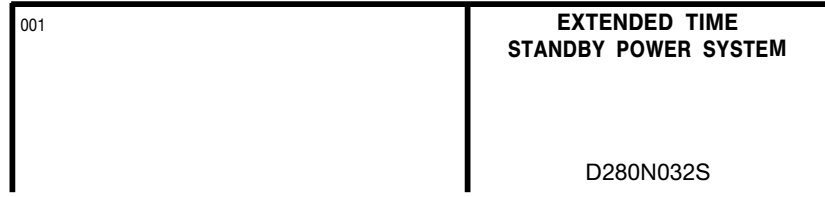
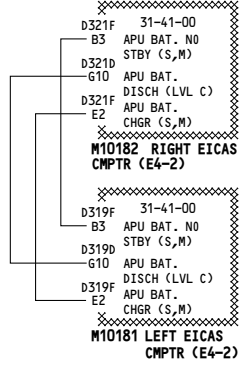
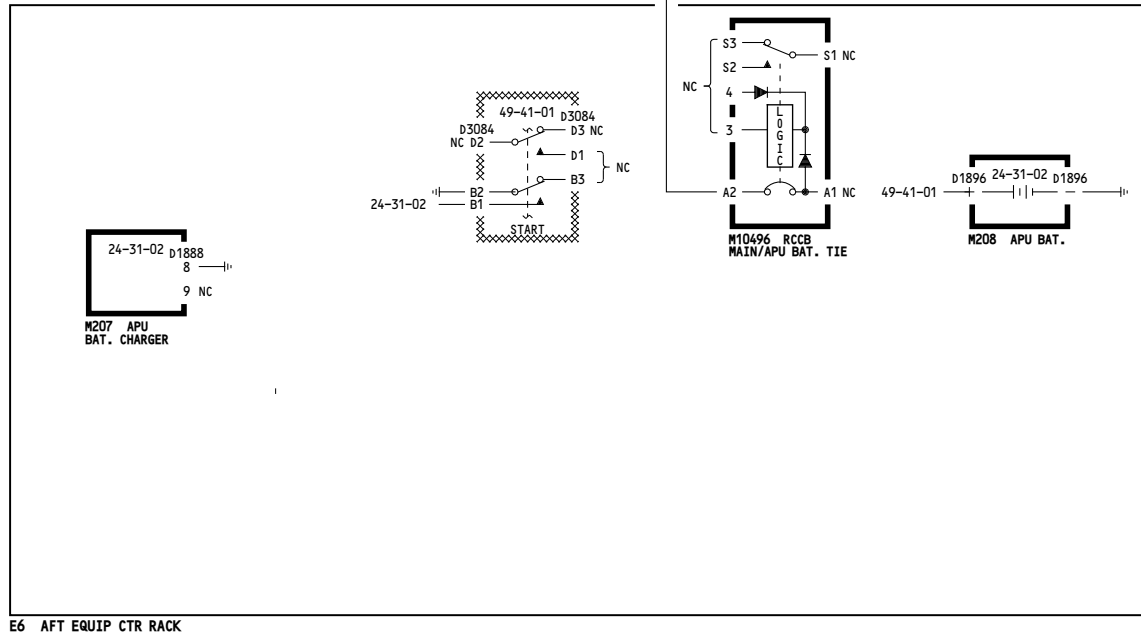
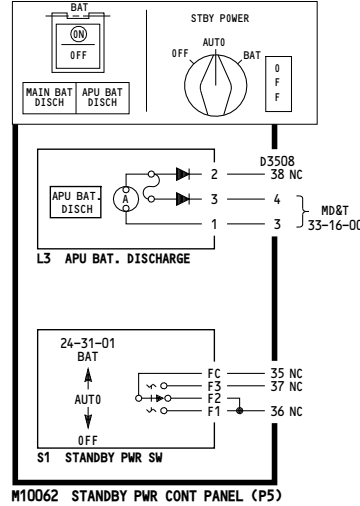
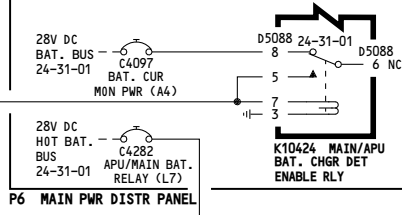
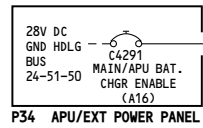
**EXTENDED TIME
STANDBY POWER SYSTEM**

D280N032S

24-33-02

5019

WIRING DIAGRAMS
24-33-12



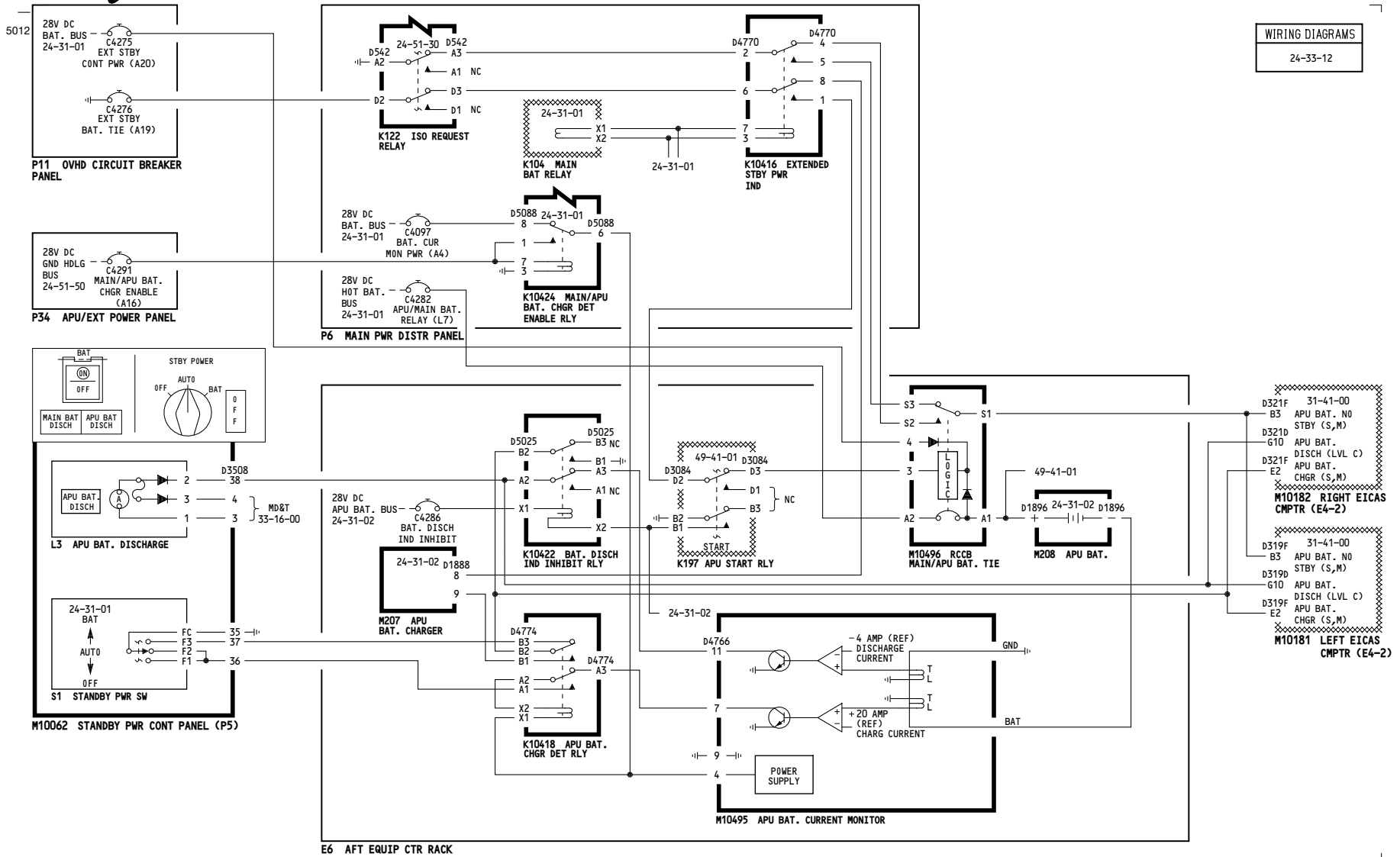
Incorporates
24-0130

24-33-02

Page 101.1

May 06/2009

WIRING DIAGRAMS
24-33-12

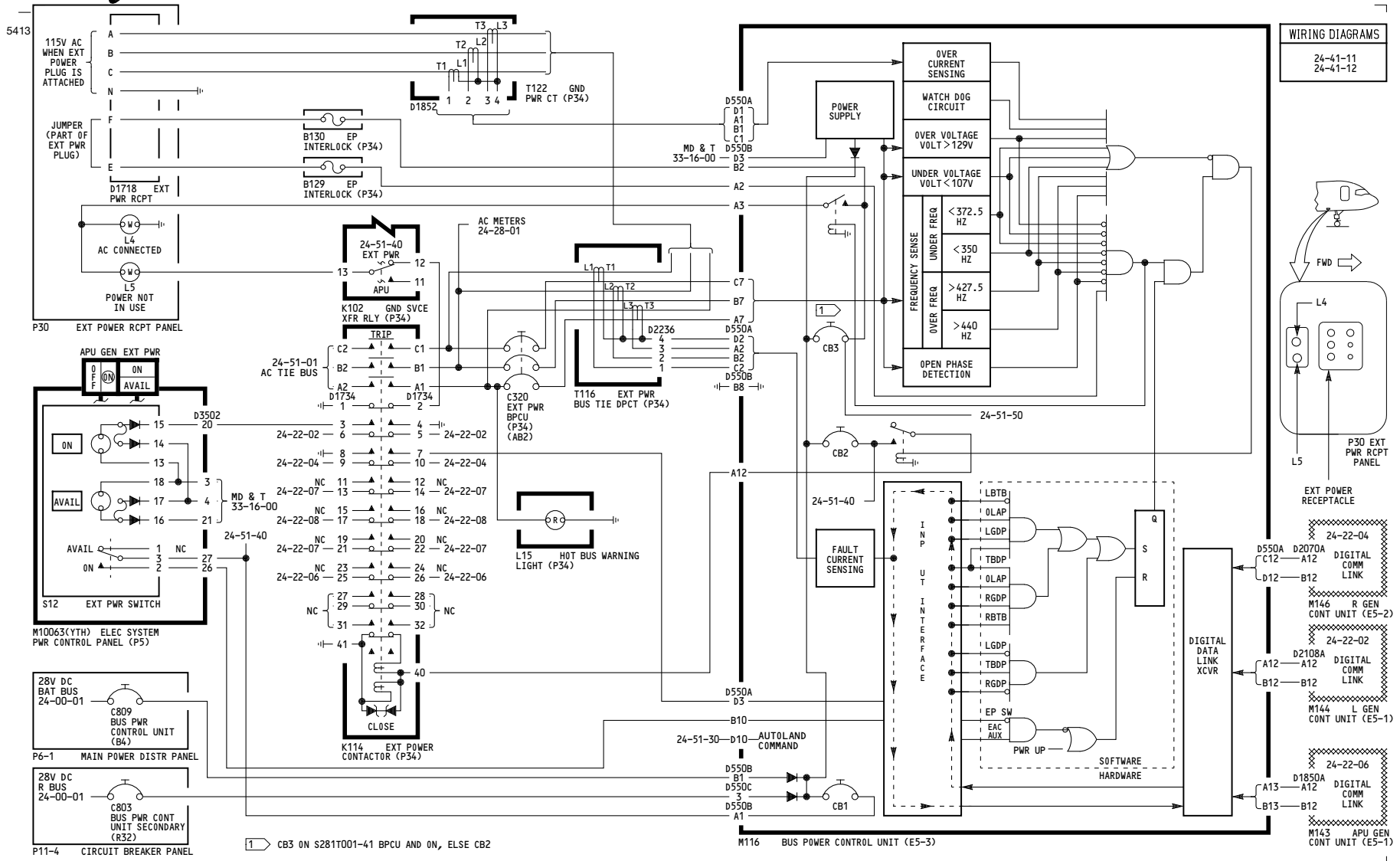


009

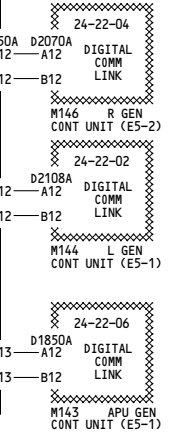
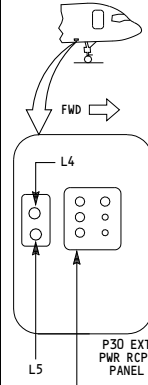
**EXTENDED TIME
STANDBY POWER SYSTEM**

D280N032S

24-33-02



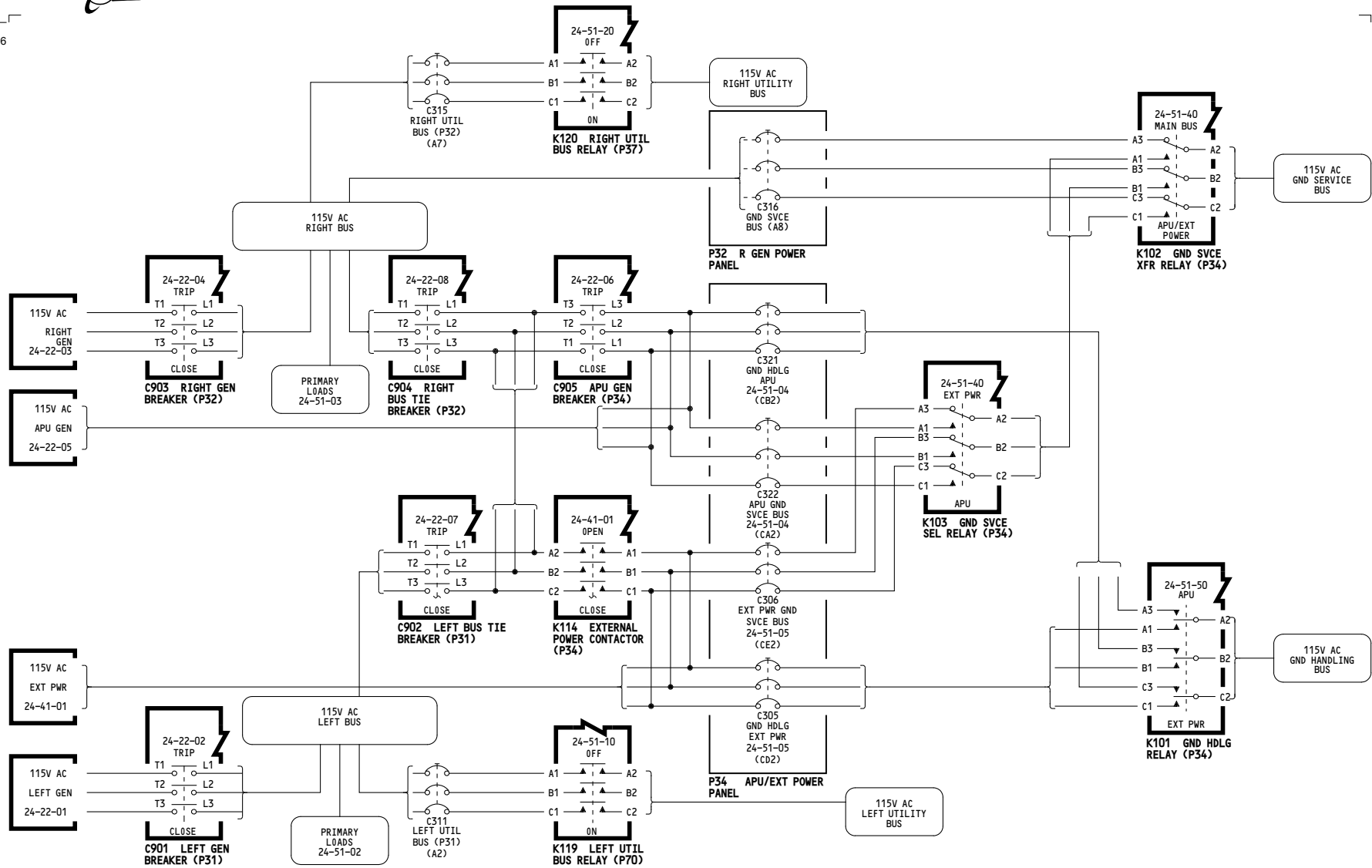
WIRING DIAGRAMS
24-41-11
24-41-12



24-41-01

ALL	EXTERNAL POWER SYSTEM
	D280N032S

5026



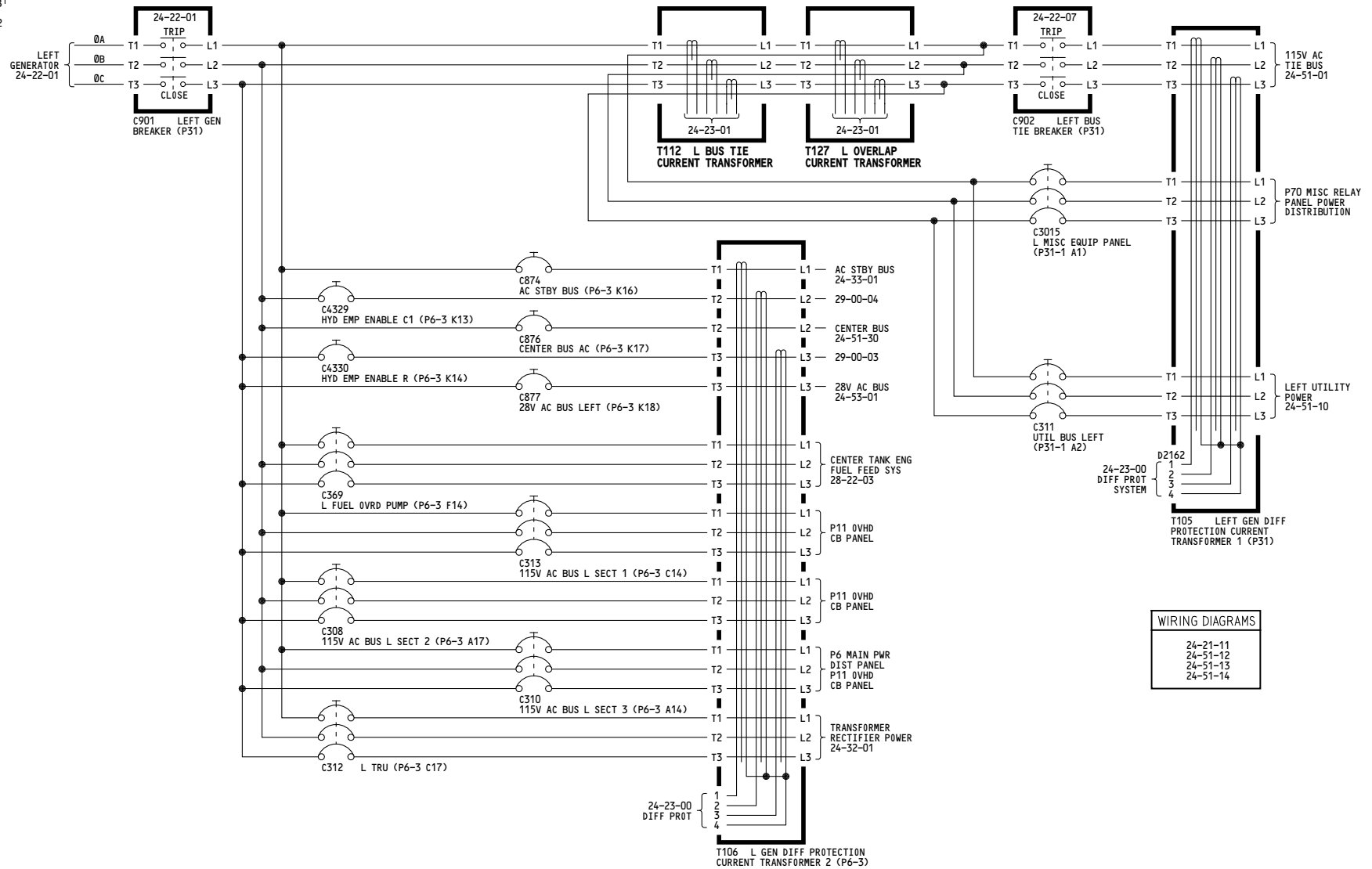
ALL	<p>THREE PHASE POWER DISTRIBUTION</p> <p>D280N032S</p>
-----	---

24-51-01

Page 101

May 06/2009

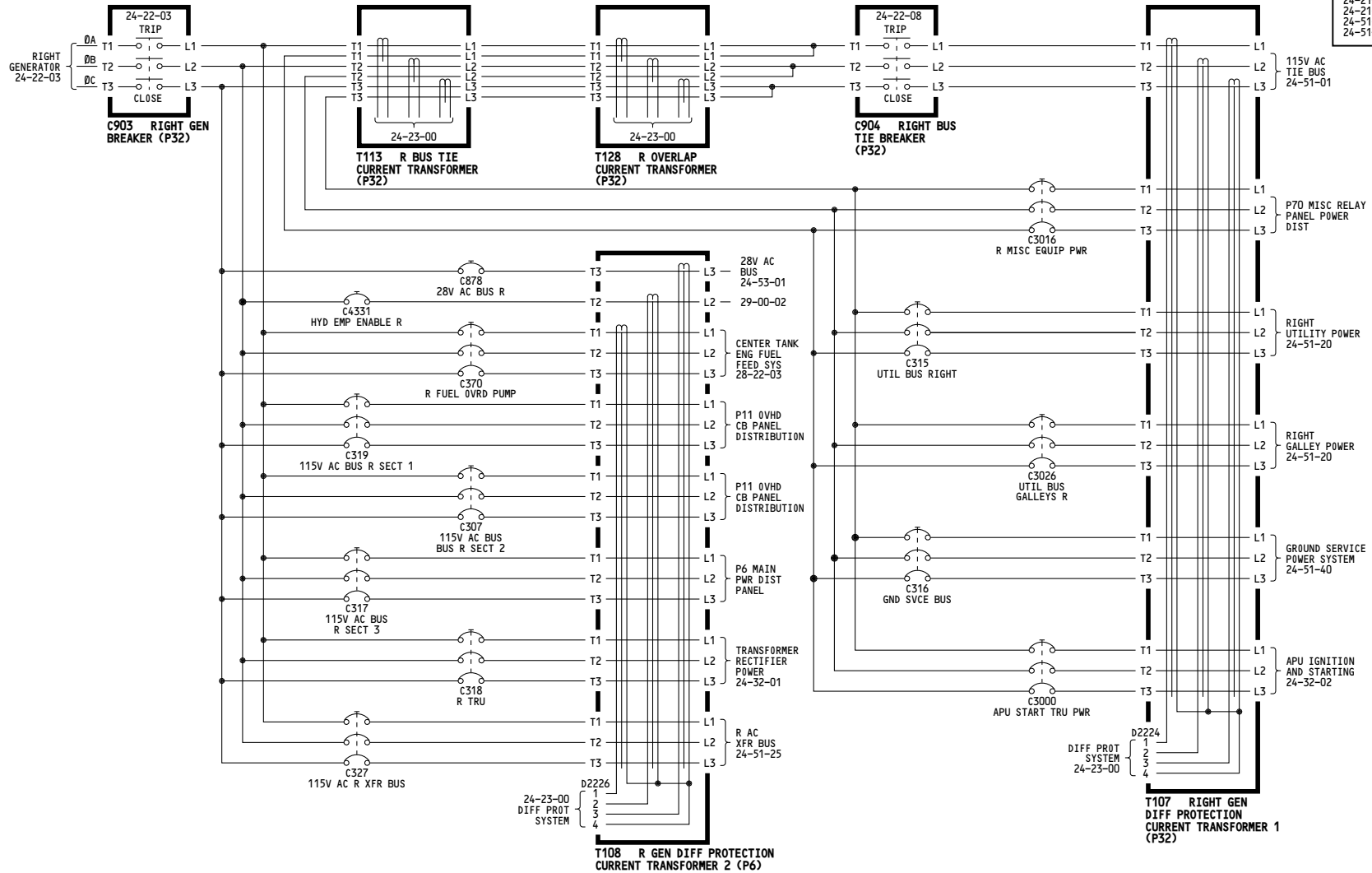
-B
5012



ALL	<p>LEFT GENERATOR LOADS - PRIMARY DISTRIBUTION</p> <p>D280N032S</p>
-----	--

-A
5024

WIRING DIAGRAMS
24-21-21 24-51-23
24-21-51 24-51-24
24-51-21 24-51-52
24-51-22



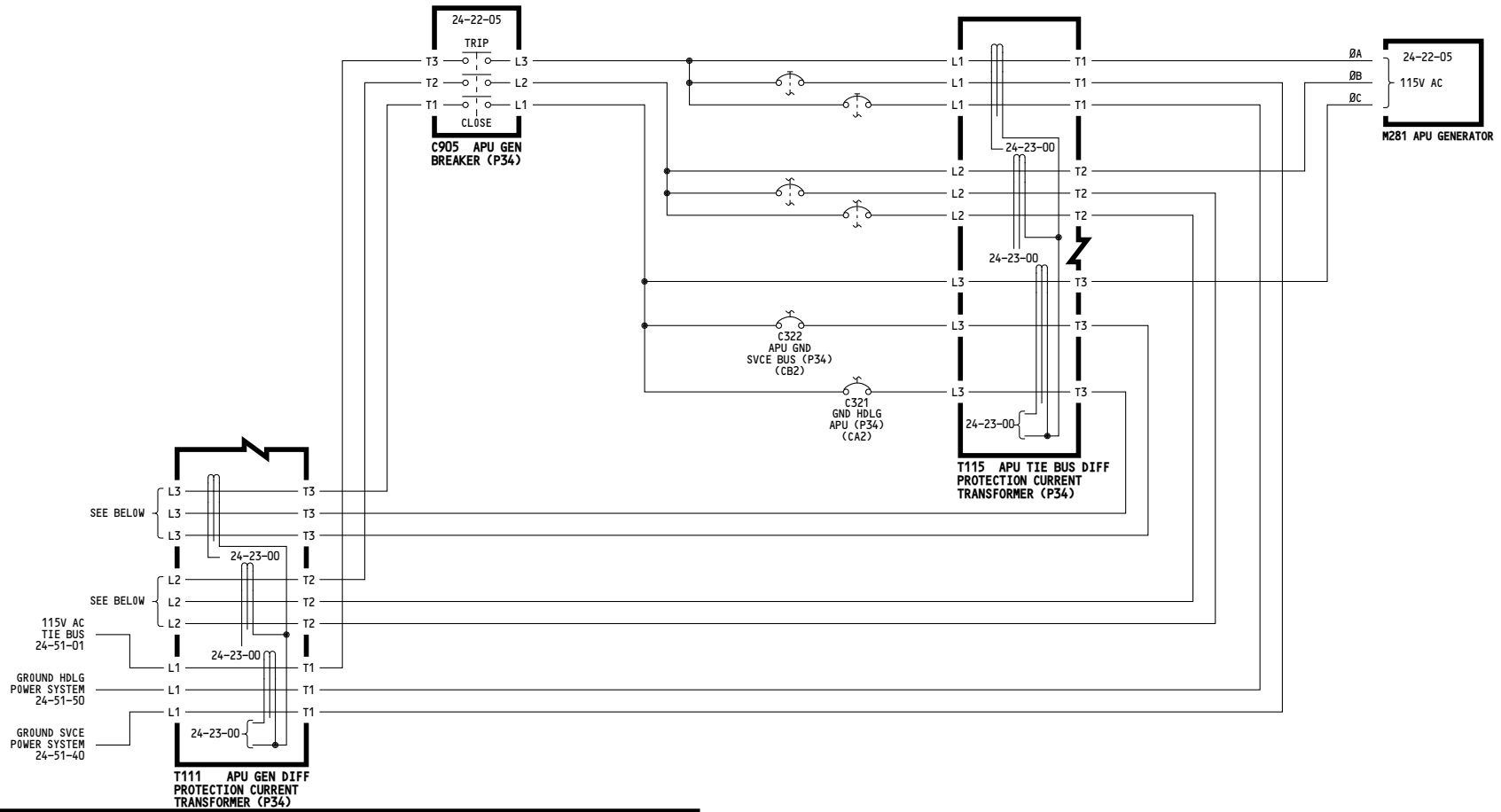
001-002	<p align="center">RIGHT GENERATOR LOADS - PRIMARY DISTRIBUTION</p> <p align="center">D280N032S</p>
---------	---

24-51-03

Page 101

Jan 21/2005

WIRING DIAGRAMS	
24-21-51	
24-21-41	
24-51-52	
24-51-61	



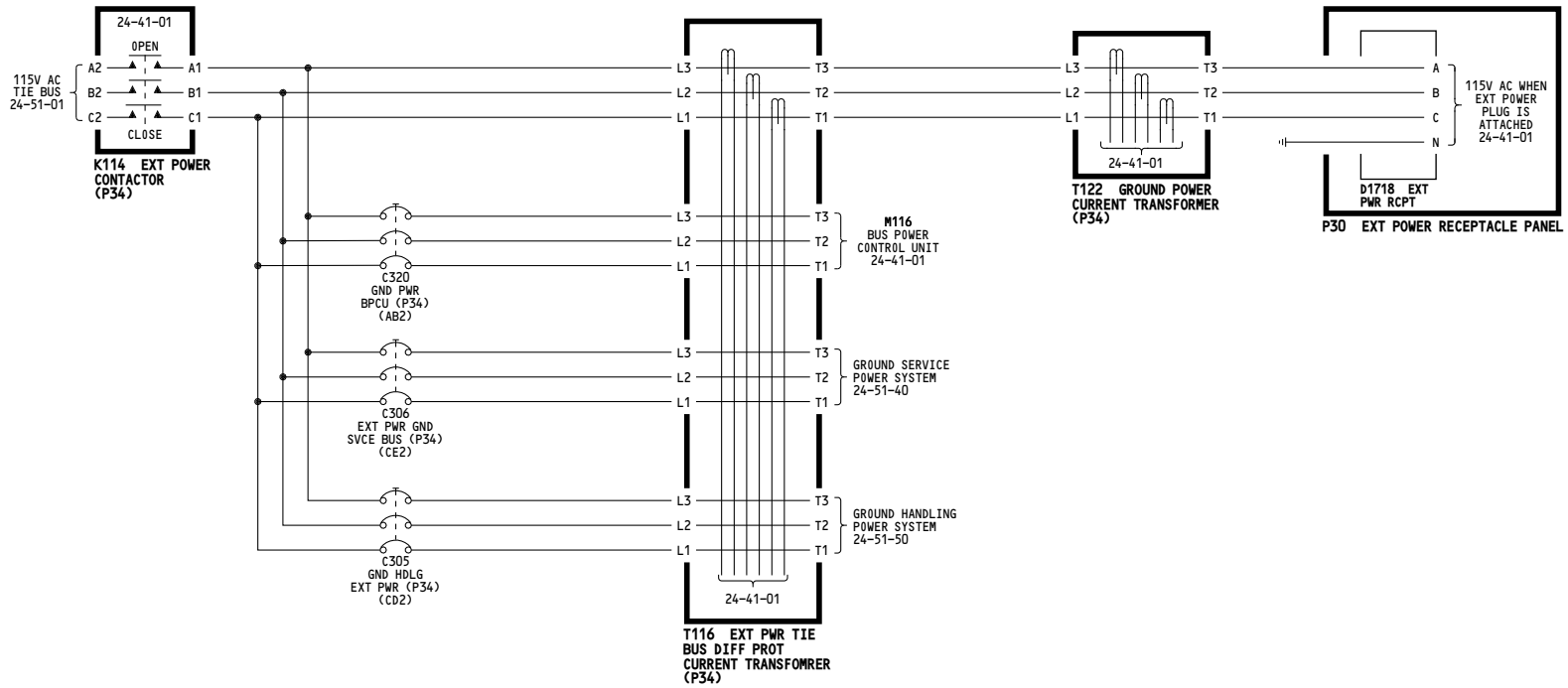
ALL	<p>APU LOADS - PRIMARY DISTRIBUTION</p> <p>D280N032S</p>
-----	---

24-51-04

Page 101

May 06/2009

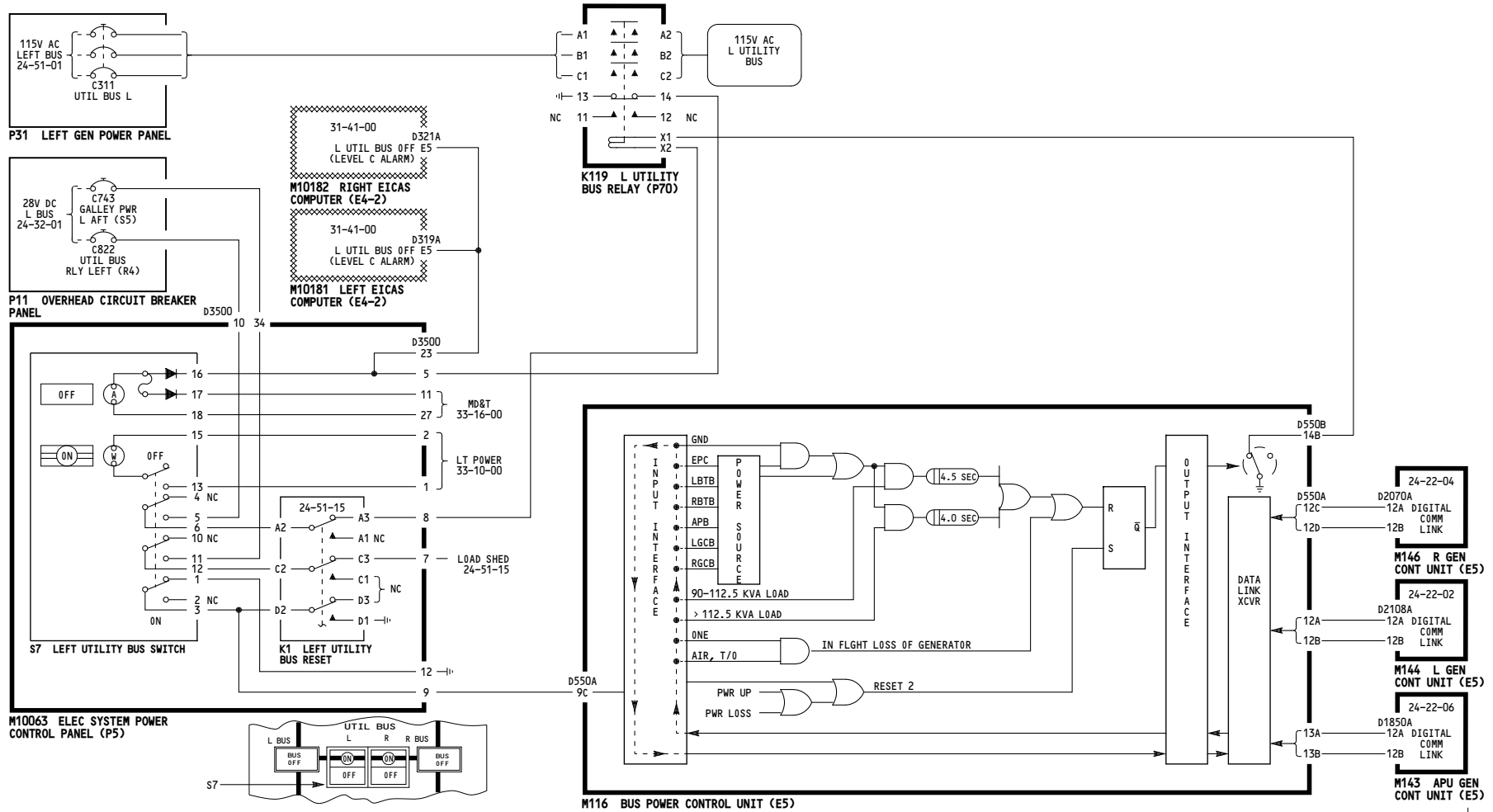
WIRING DIAGRAMS
 24-41-11
 24-51-52
 24-51-61



ALL	<p>EXTERNAL POWER LOADS - PRIMARY DISTRIBUTION</p> <p>D280N032S</p>
-----	--

-B
5011

WIRING DIAGRAMS
24-51-14
24-51-71

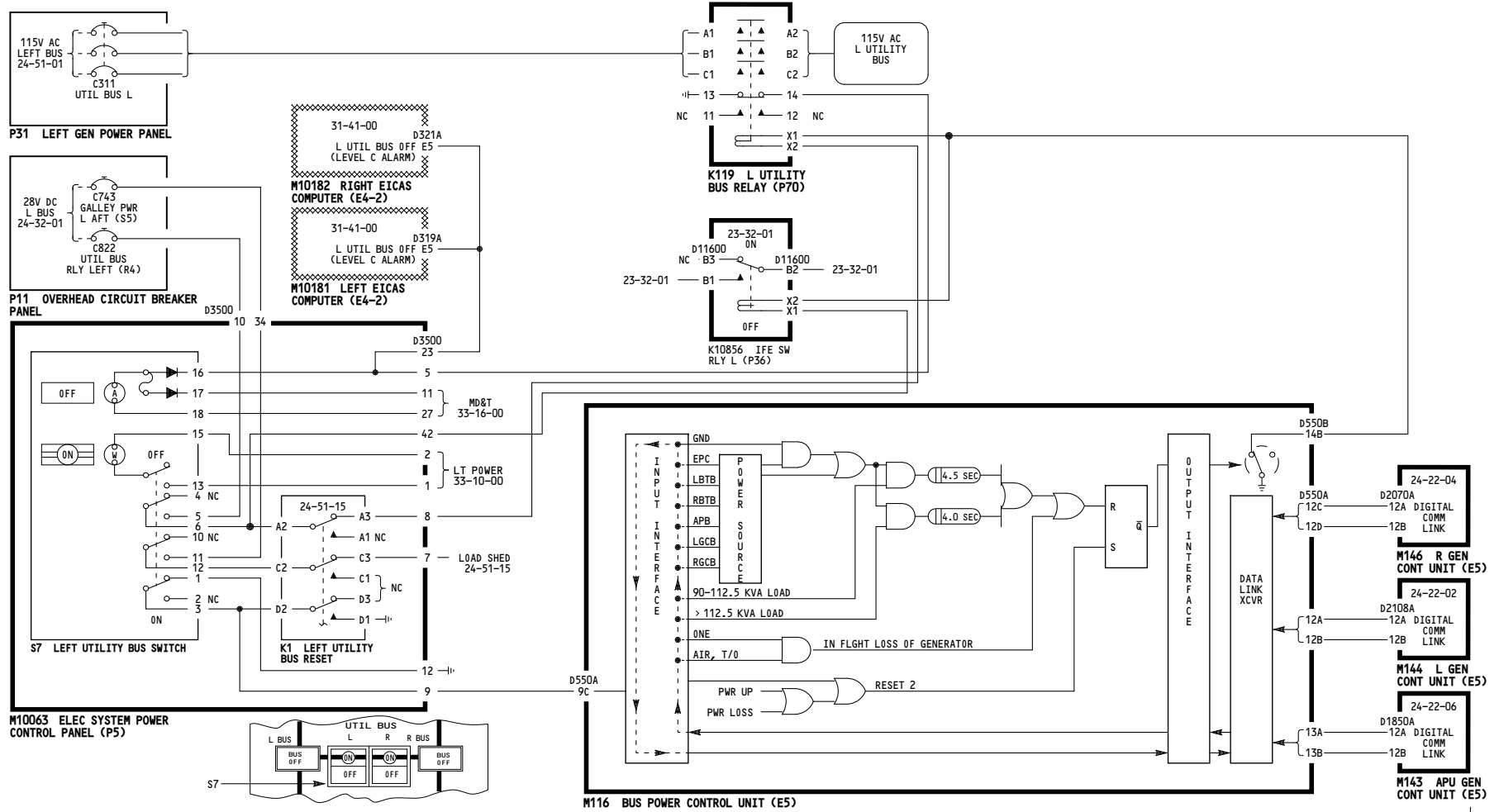


ALL	<p>LEFT UTILITY POWER CONTROL</p> <p>D280N032S</p>
-----	---

24-51-10

5053

WIRING DIAGRAMS
23-32-01
24-51-14
24-51-71



003-011

LEFT UTILITY POWER CONTROL

D280N032S

Incorporates
24-0093

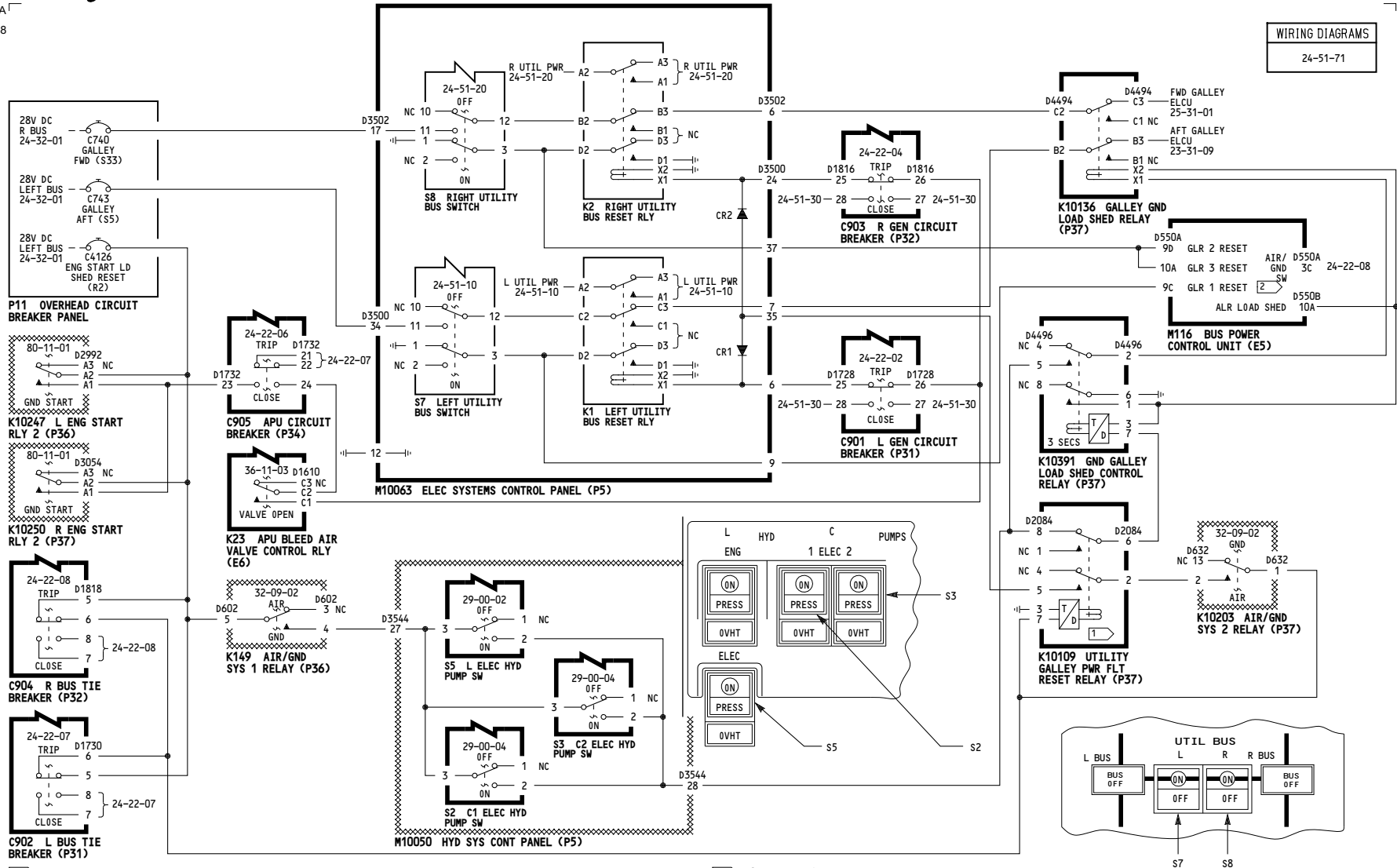
24-51-10

Page 101.1

May 06/2009

5018

WIRING DIAGRAMS
24-51-71



1 WHEN POWER IS APPLIED, RELAY STAYS ENERGIZED FOR ONLY 1.5 SECONDS.

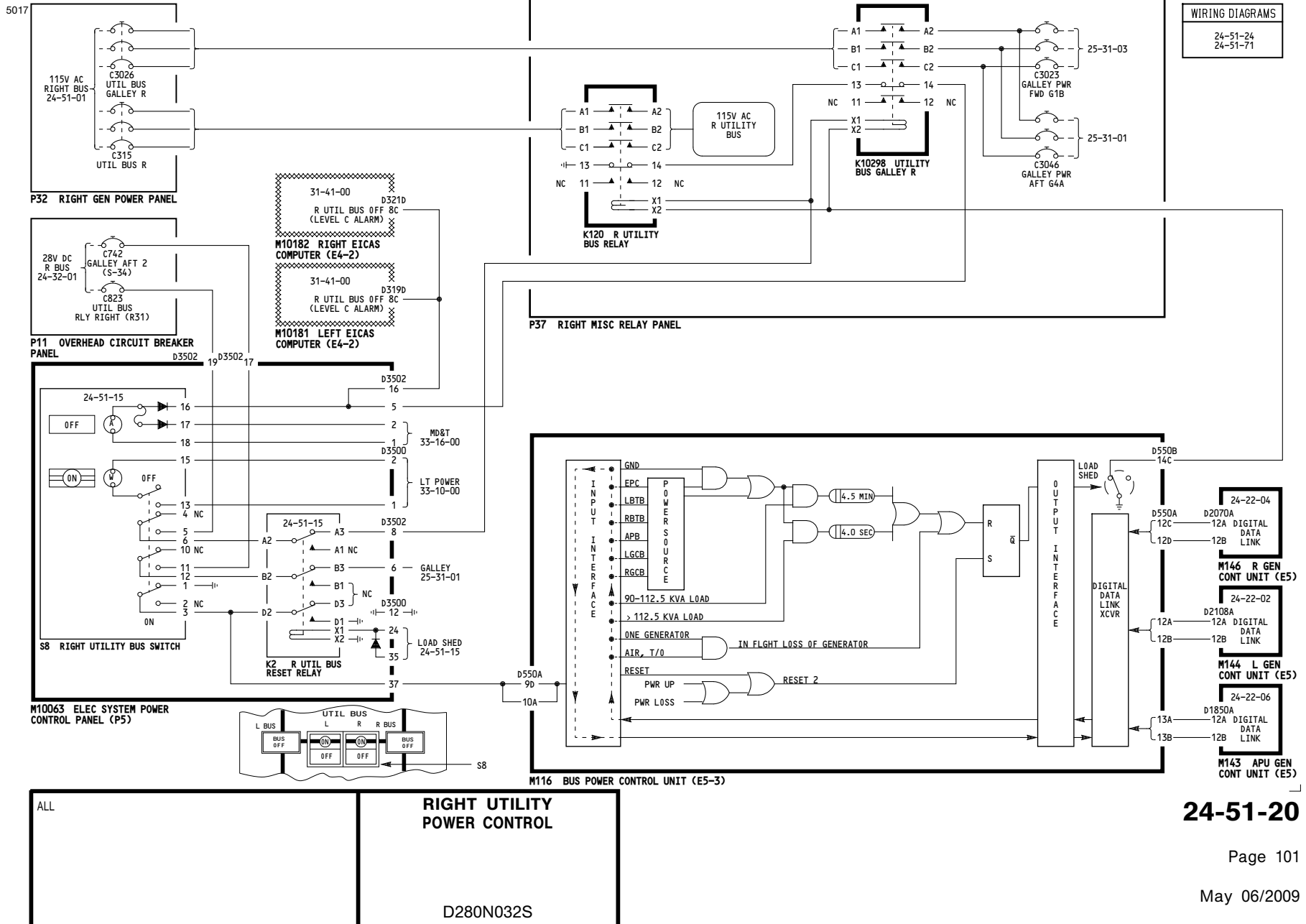
2 10 SECONDS T/D BEFORE GRD SIGNAL IS RECOGNIZED AND RESETS ARE ENABLED FOLLOWING SINGLE-SOURCE LOAD SHED ON GROUND.

M10063 ELEC SYSTEMS CONTROL PANEL (P5)

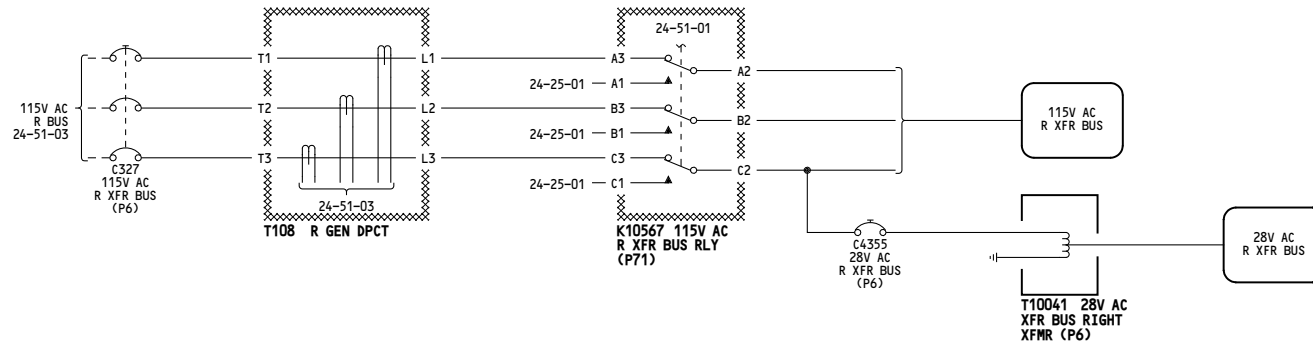
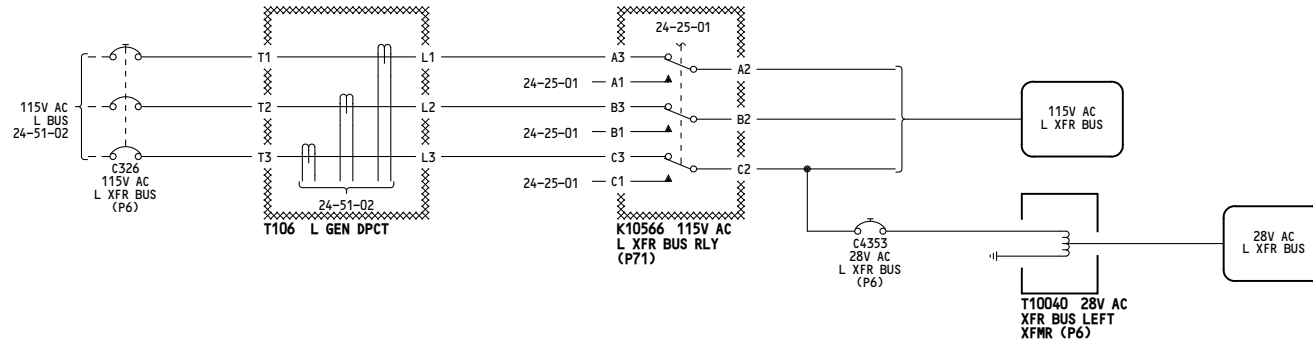
24-51-15

ALL	ELECTRICAL LOAD SHEDDING

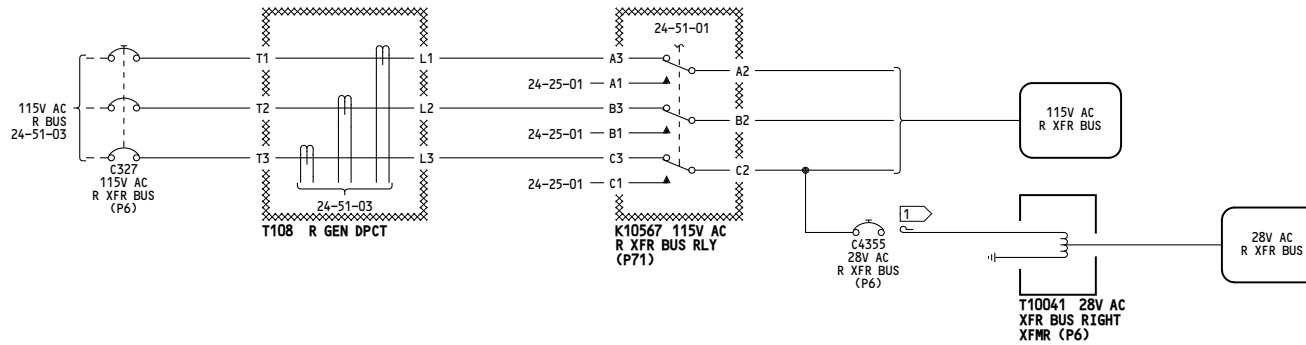
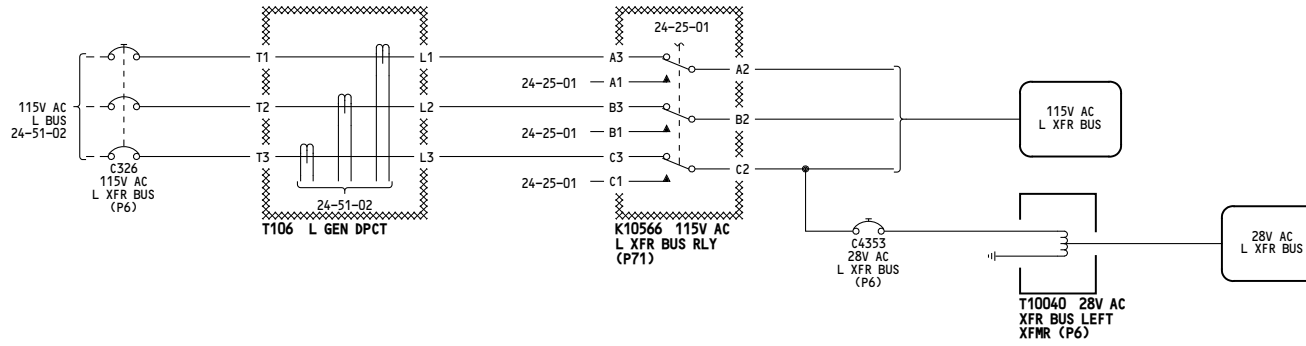
D280N032S



24-51-20



ALL	<p>LEFT AND RIGHT AC TRANSFER BUSES</p> <p>D280N032S</p>
-----	---

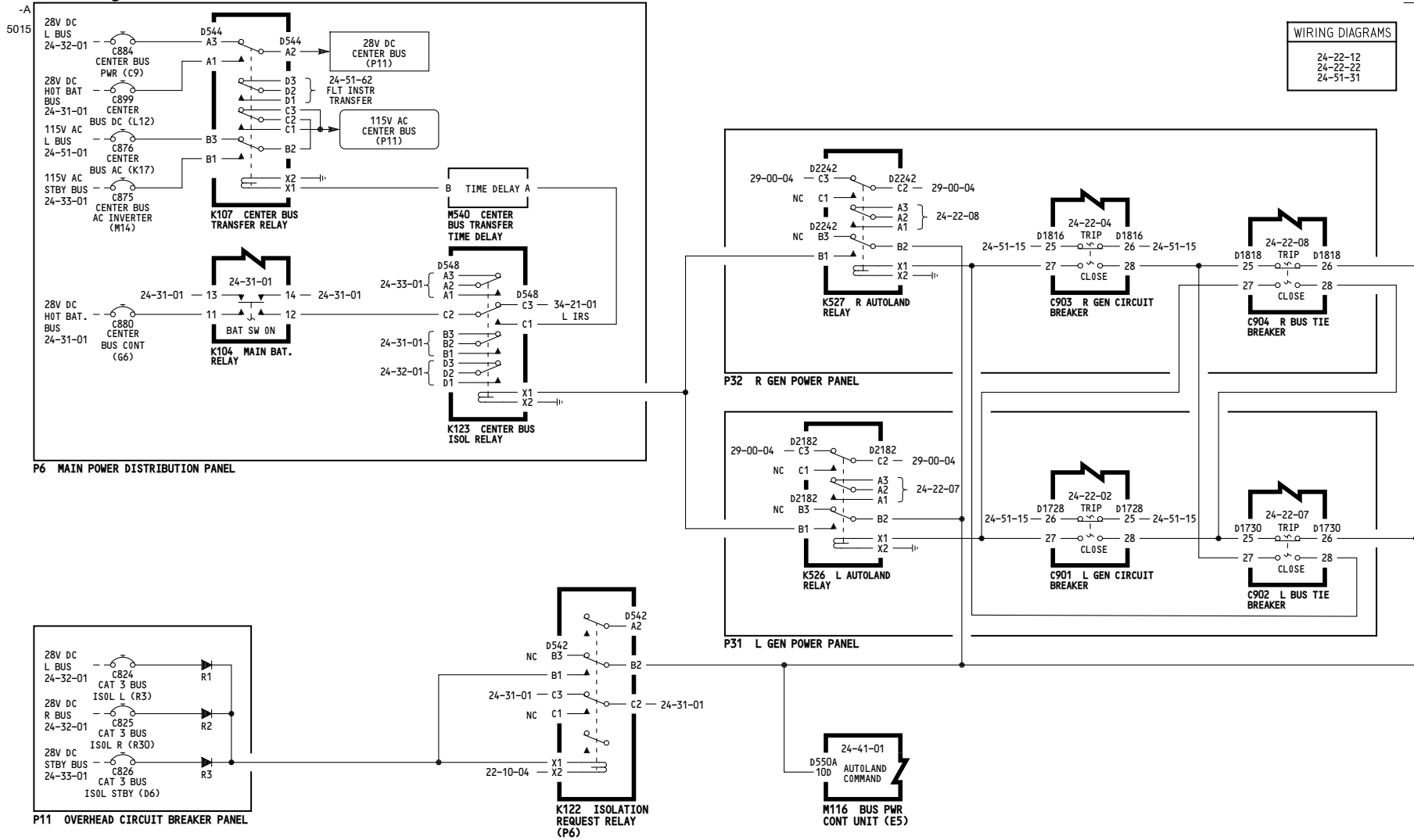


1 COLLARED AND LABELED "1N0P".

001	<p>LEFT AND RIGHT AC TRANSFER BUSES</p> <p>D280N032S</p>
-----	---

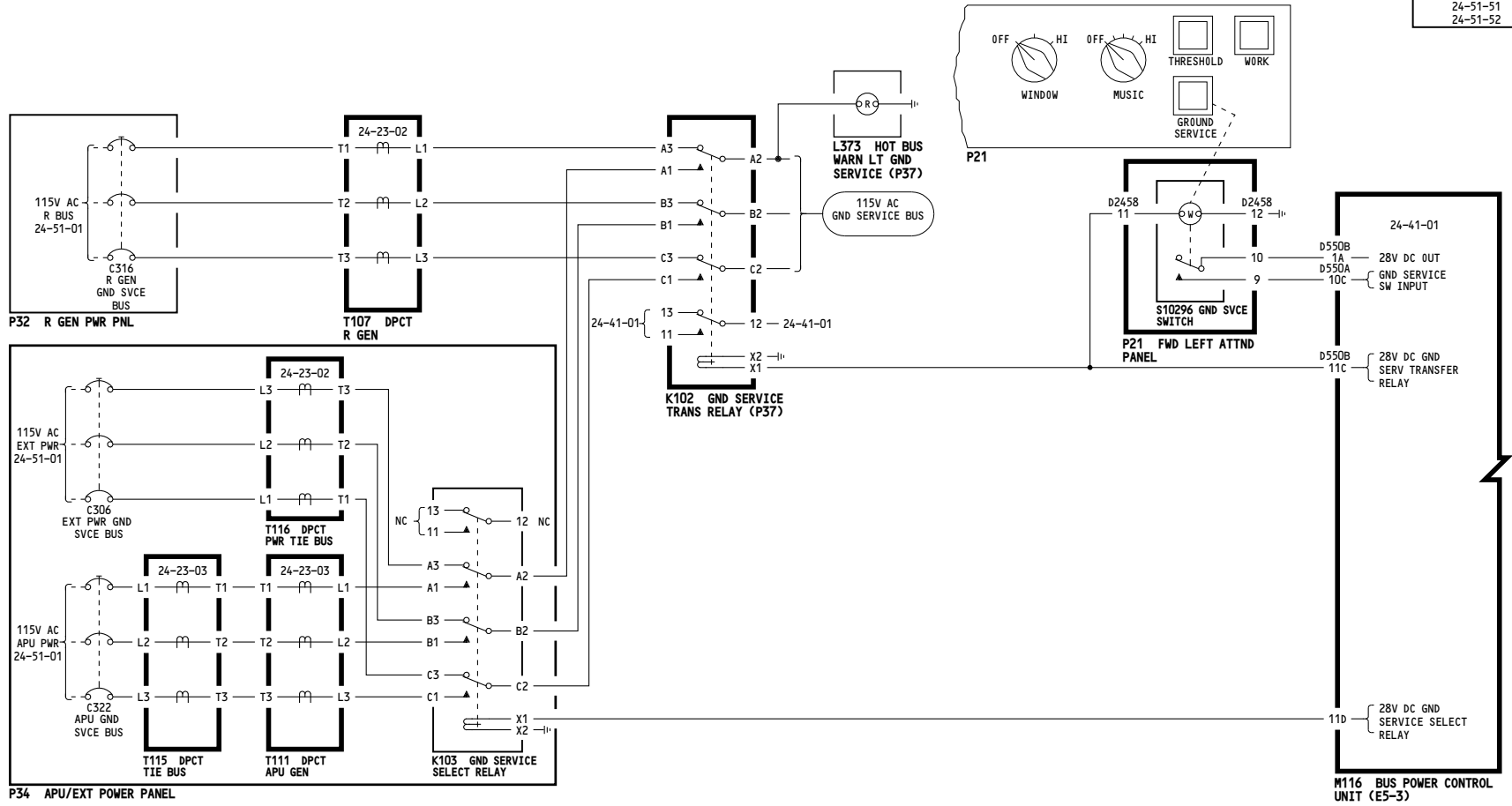
Incorporates
24-0131

24-51-25



ALL	CENTER BUS POWER SYSTEM
	D280N032S

WIRING DIAGRAMS
24-51-51
24-51-52

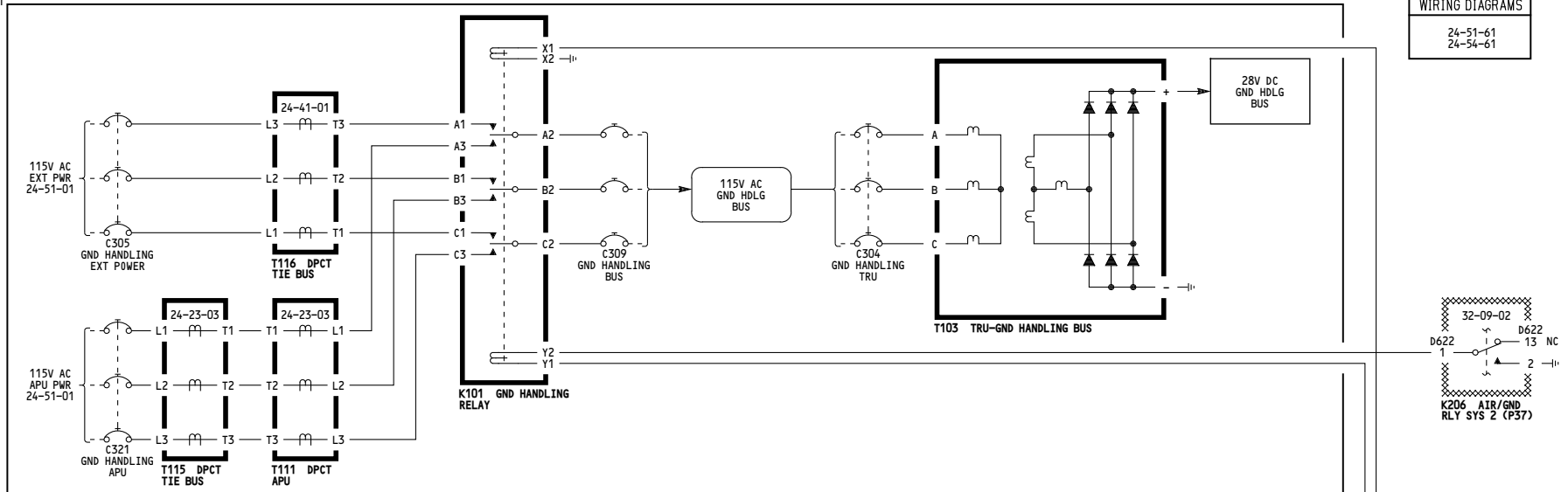


ALL	<p>GROUND SERVICE POWER CONTROL</p> <p>D280N032S</p>
-----	---

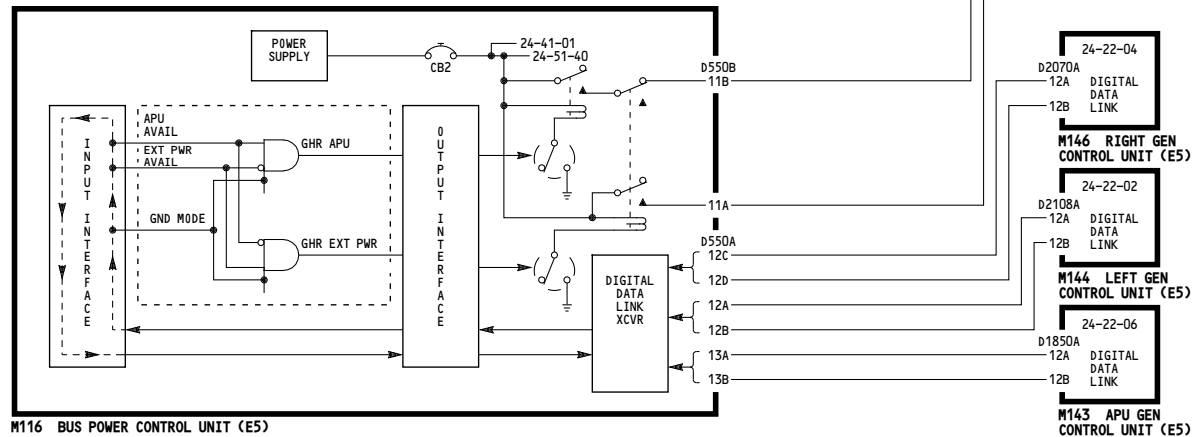
24-51-40

-A
5011

WIRING DIAGRAMS
24-51-61
24-54-61



P34 APU/EXT POWER PANEL



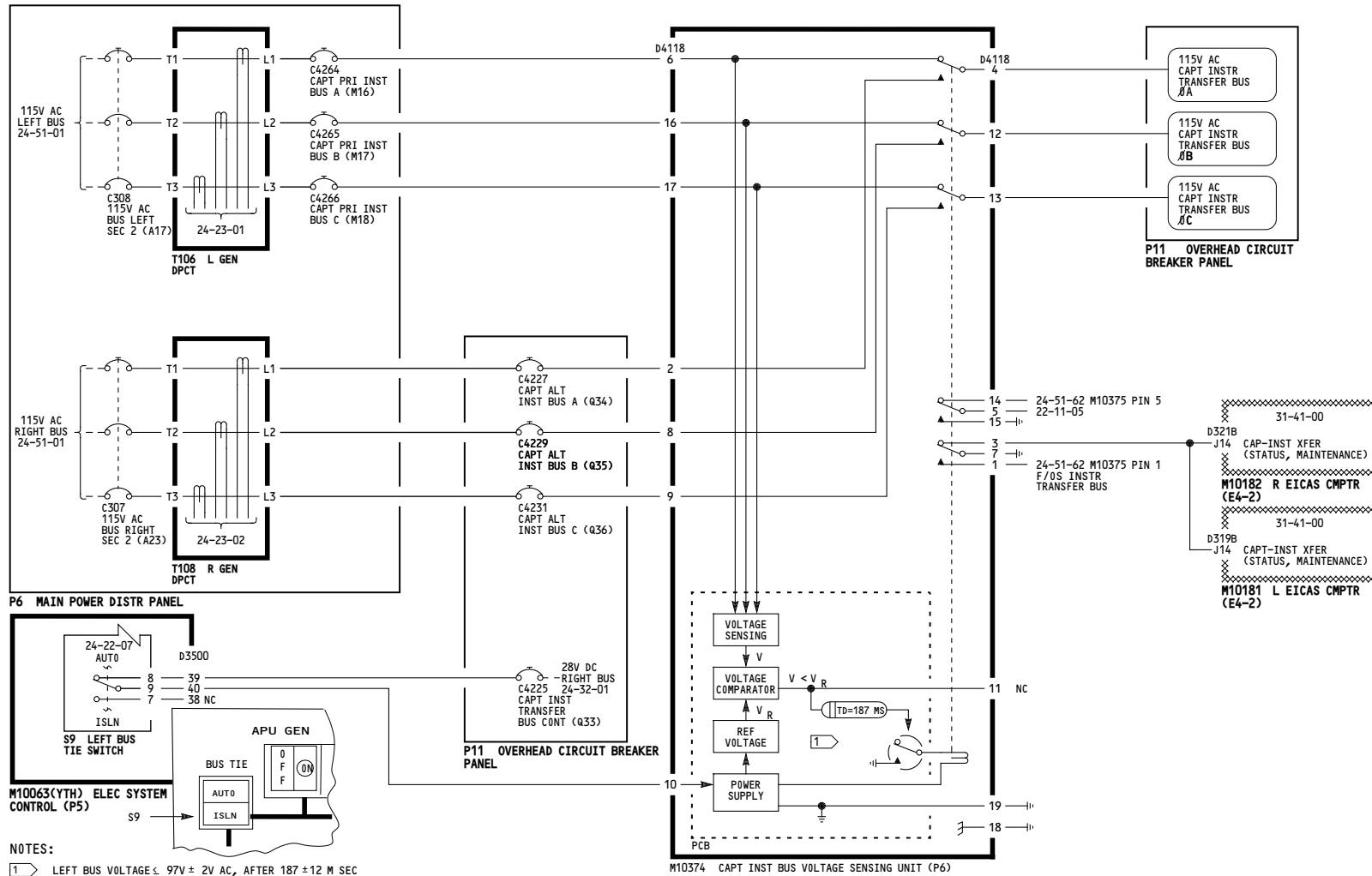
H116 BUS POWER CONTROL UNIT (E5)

ALL	GROUND HANDLING POWER CONTROL
	D280N032S

24-51-50

-B
5011

WIRING DIAGRAMS
24-51-12
24-51-22
24-51-72



NOTES:
1 LEFT BUS VOLTAGE $< 97V \pm 2V$ AC, AFTER 187 ± 12 M SEC SYSTEM SWITCHES TO RIGHT BUS.
WHEN LEFT BUS VOLTAGE $\geq 106 \pm 2V$ AC, AFTER 1.2 ± 0.2 SEC SYSTEM SWITCHES BACK TO LEFT BUS.

ALL	CAPTAINS FLIGHT INSTRUMENT TRANSFER BUS
	D280N032S

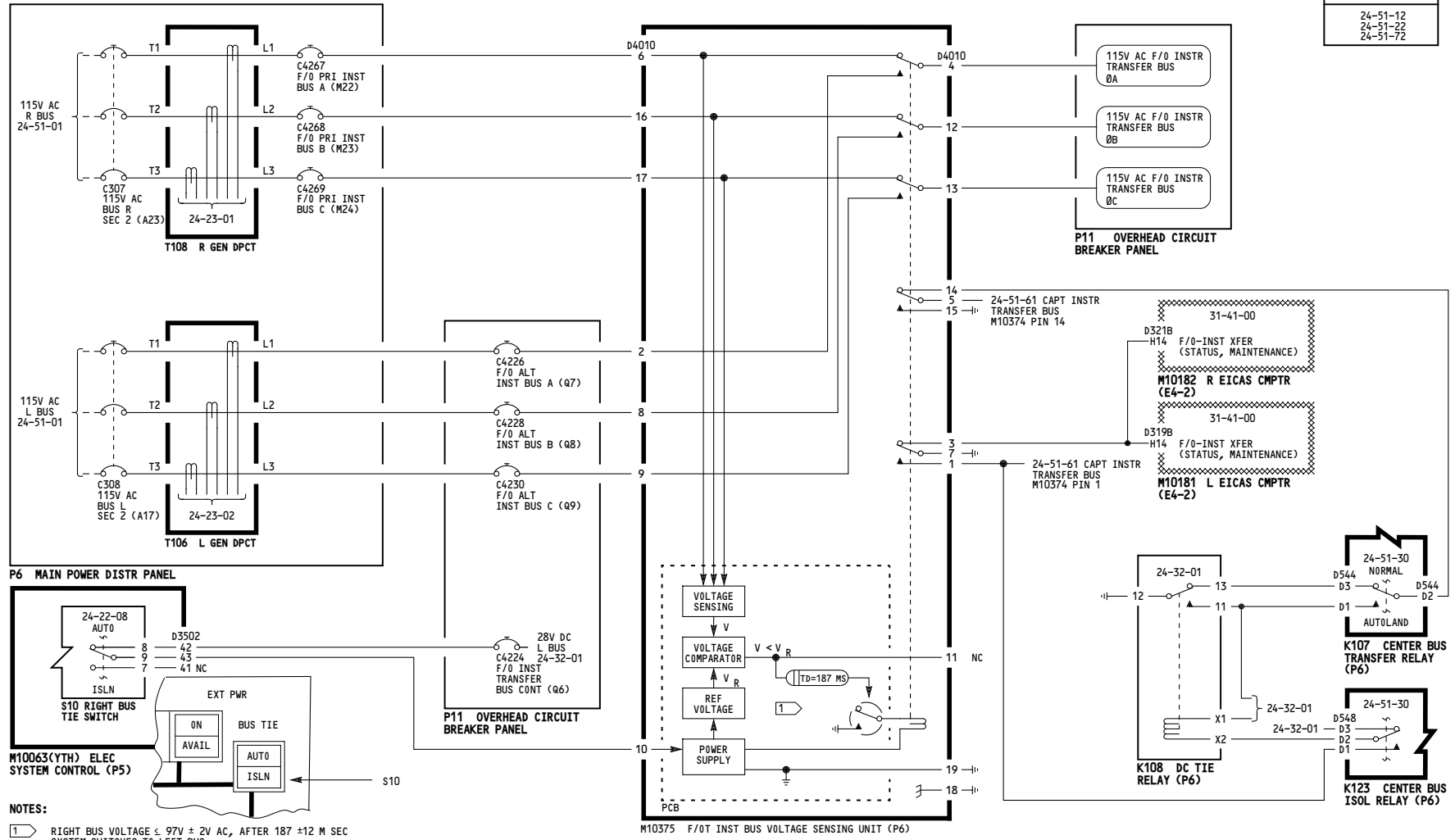
24-51-61

Page 101

May 06/2009

5011

WIRING DIAGRAMS
24-51-12
24-51-22
24-51-52



ALL

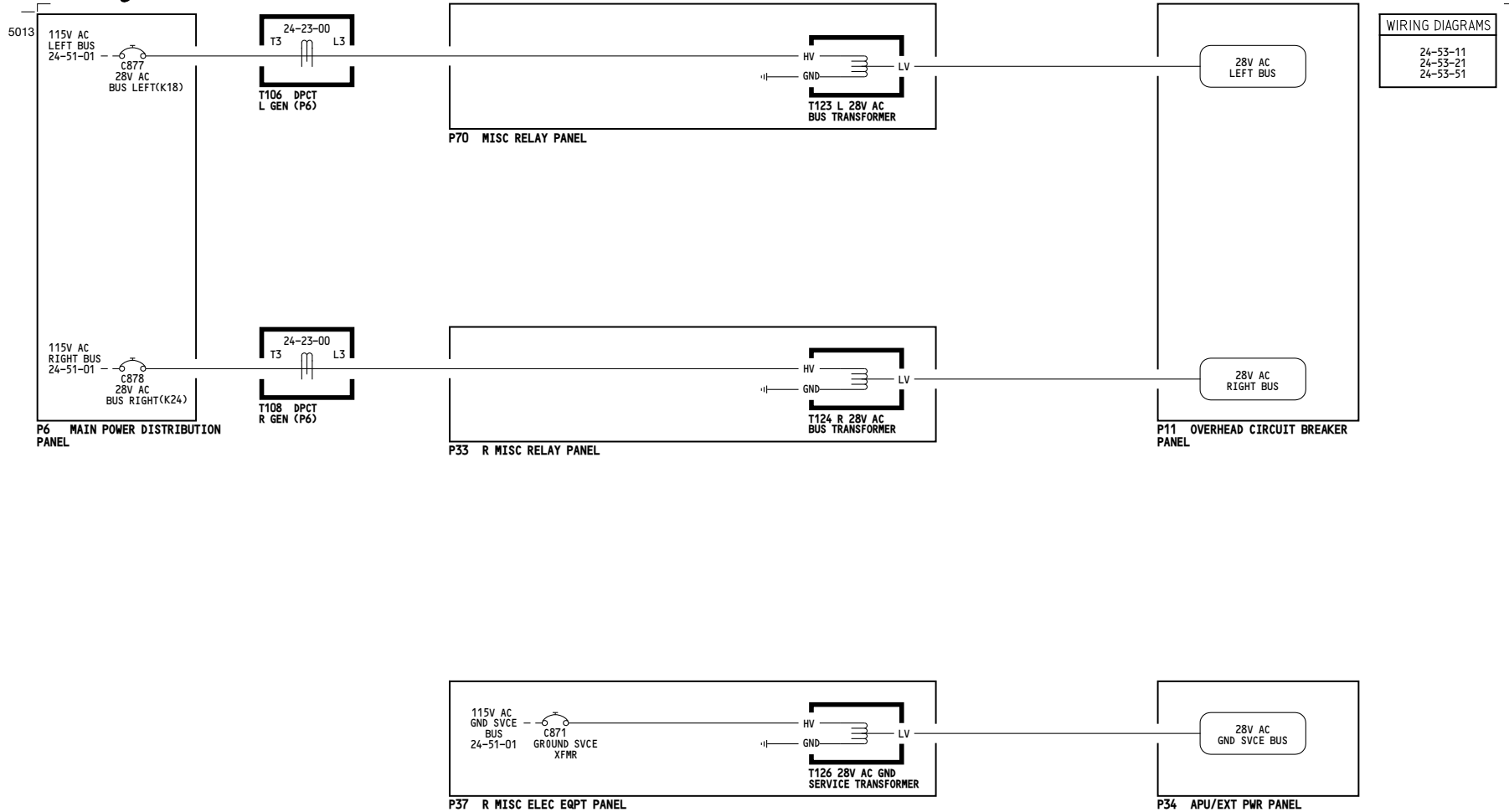
FIRST OFFICERS FLIGHT INSTRUMENT TRANSFER BUS

D280N032S

24-51-62

Page 101

May 06/2009



WIRING DIAGRAMS
24-53-11
24-53-21
24-53-51

ALL	28V AC DISTRIBUTION
	D280N032S

24-53-01

Page 101

May 06/2009