

**CHAPTER**

**36**

**PNEUMATIC**



CHAPTER 36  
PNEUMATIC

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
36-EFFECTIVE PAGES					36-11-03 (cont.)				
		1		Oct 09/2008			102	1	Jan 21/2005
		2		BLANK				2	Jan 21/2005
36-CONTENTS							103	1	Jan 21/2005
		1		Dec 18/2007				2	Jan 21/2005
		2		Dec 18/2007	36-11-05				
36-ALPHABETICAL INDEX							101		Jan 21/2005
		1		Dec 18/2007			102		Jan 21/2005
		2		BLANK			103		Jan 21/2005
36-00-00					36-11-06				
		101	1	Jan 21/2005			101	1	Jan 21/2005
			2	Jan 21/2005				2	Jan 21/2005
		102	1	Jan 21/2005	36-21-01				
			2	Jan 21/2005			101		Jan 21/2005
36-11-01							102		Jan 21/2005
		101		Dec 18/2007	36-22-01				
		102		Dec 18/2007			101		Jan 21/2005
		103		Dec 18/2007			102		Jan 21/2005
36-11-02					36-22-02				
		101		Jan 21/2005			101		Jan 21/2005
		102		Jan 21/2005					
		103		Jan 21/2005					
36-11-03									
		101	1	Jan 21/2005					
			2	Jan 21/2005					

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

**36-EFFECTIVE PAGES**



CHAPTER 36  
PNEUMATIC

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
<b><u>PNEUMATIC</u></b>						
PNEUMATIC SYSTEM - SIMPLIFIED	36-00-00		101	1	Jan 21/2005	001-099
				2	Jan 21/2005	001-099
			102	1	Jan 21/2005	115-199
				2	Jan 21/2005	115-199
<b><u>AIR SUPPLY DISTRIBUTION SYSTEM</u></b>						
BLEED AIR CONTROL - LEFT ENGINE	36-11-01		101		Dec 18/2007	001-009
			102		Dec 18/2007	010-099
			103		Dec 18/2007	115-199
BLEED AIR CONTROL - RIGHT ENGINE	36-11-02		101		Jan 21/2005	001-009
			102		Jan 21/2005	010-099
			103		Jan 21/2005	115-199
APU AIR SUPPLY VALVE CONTROL	36-11-03		101	1	Jan 21/2005	001-009
				2	Jan 21/2005	001-009
			102	1	Jan 21/2005	010-099
				2	Jan 21/2005	010-099
				103	1	Jan 21/2005
AIR SUPPLY ISOLATION VALVE CONTROL	36-11-05		101		Jan 21/2005	001-008
				102		Jan 21/2005
			103		Jan 21/2005	115-199
ECS BLEED CONFIGURATION CARD	36-11-06		101	1	Jan 21/2005	ALL
				2	Jan 21/2005	ALL

CHAPTER 36  
PNEUMATIC

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
<b><u>AIR SUPPLY PRESSURE INDICATING SYSTEM</u></b>						
AIR SUPPLY DUCT PRESSURE INDICATION	36-21-01		101		Jan 21/2005	001-099
			102		Jan 21/2005	115-199
<b><u>AIR SUPPLY TEMPERATURE INDICATING SYSTEM</u></b>						
AIR SUPPLY OVERHEAT INDICATION	36-22-01		101		Jan 21/2005	001-099
			102		Jan 21/2005	115-199
PRECOOLER OUT TEMPERATURE INDICATION	36-22-02		101		Jan 21/2005	ALL

**CHAPTER 36  
PNEUMATIC**

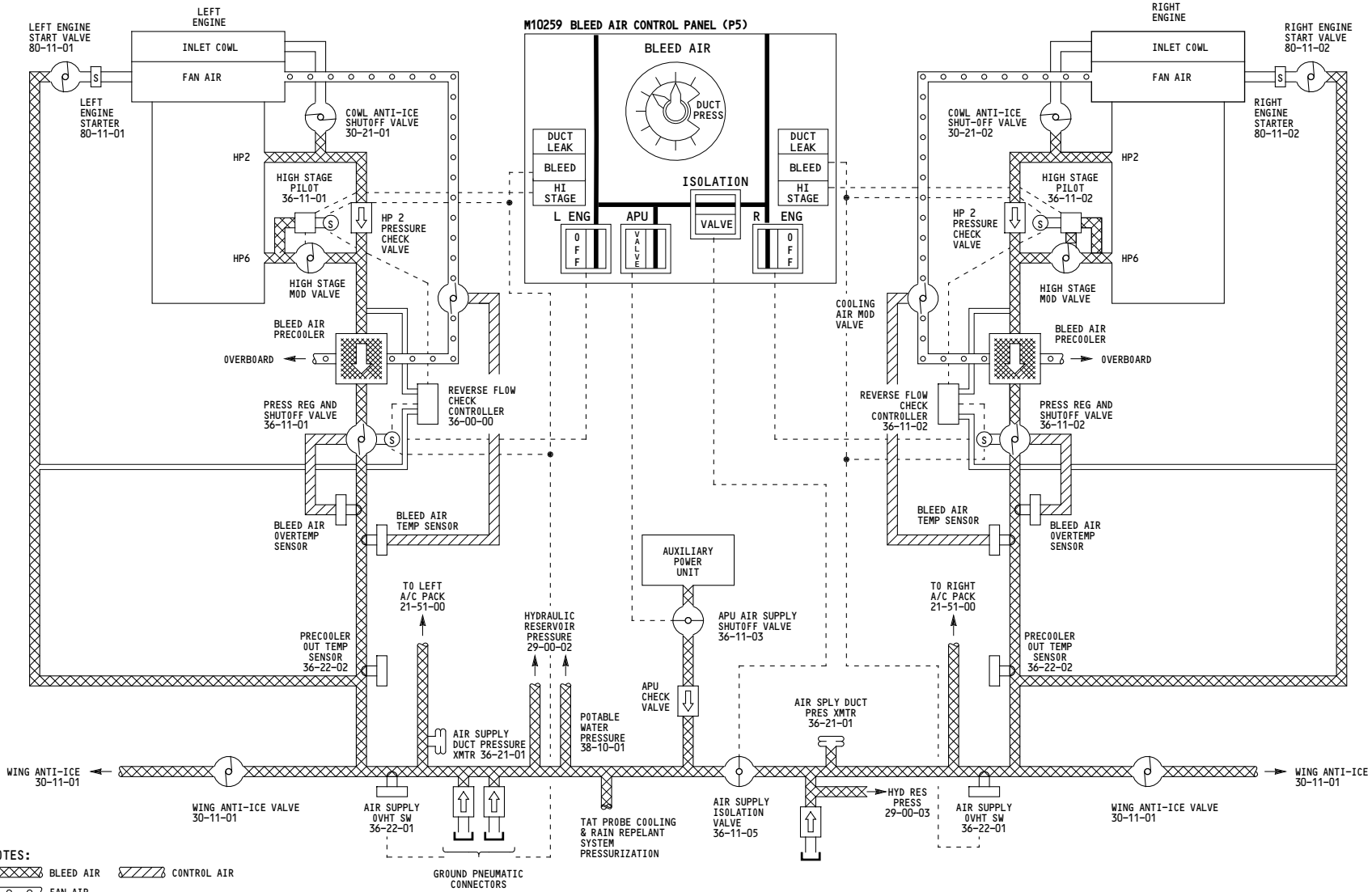
CH-SC-SU	Title
36-21-01	AIR SUPPLY DUCT PRESSURE INDICATION
36-11-05	AIR SUPPLY ISOLATION VALVE CONTROL
36-22-01	AIR SUPPLY OVERHEAT INDICATION
36-11-03	APU AIR SUPPLY VALVE CONTROL
36-11-01	BLEED AIR CONTROL - LEFT ENGINE
36-11-02	BLEED AIR CONTROL - RIGHT ENGINE
36-11-06	ECS BLEED CONFIGURATION CARD
36-00-00	PNEUMATIC SYSTEM - SIMPLIFIED
36-22-02	PRECOOLER OUT TEMPERATURE INDICATION

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

**36-ALPHABETICAL INDEX**

THIS PAGE INTENTIONALLY LEFT BLANK

5014



- NOTES:**
- BLEED AIR
  - CONTROL AIR
  - FAN AIR

001-099

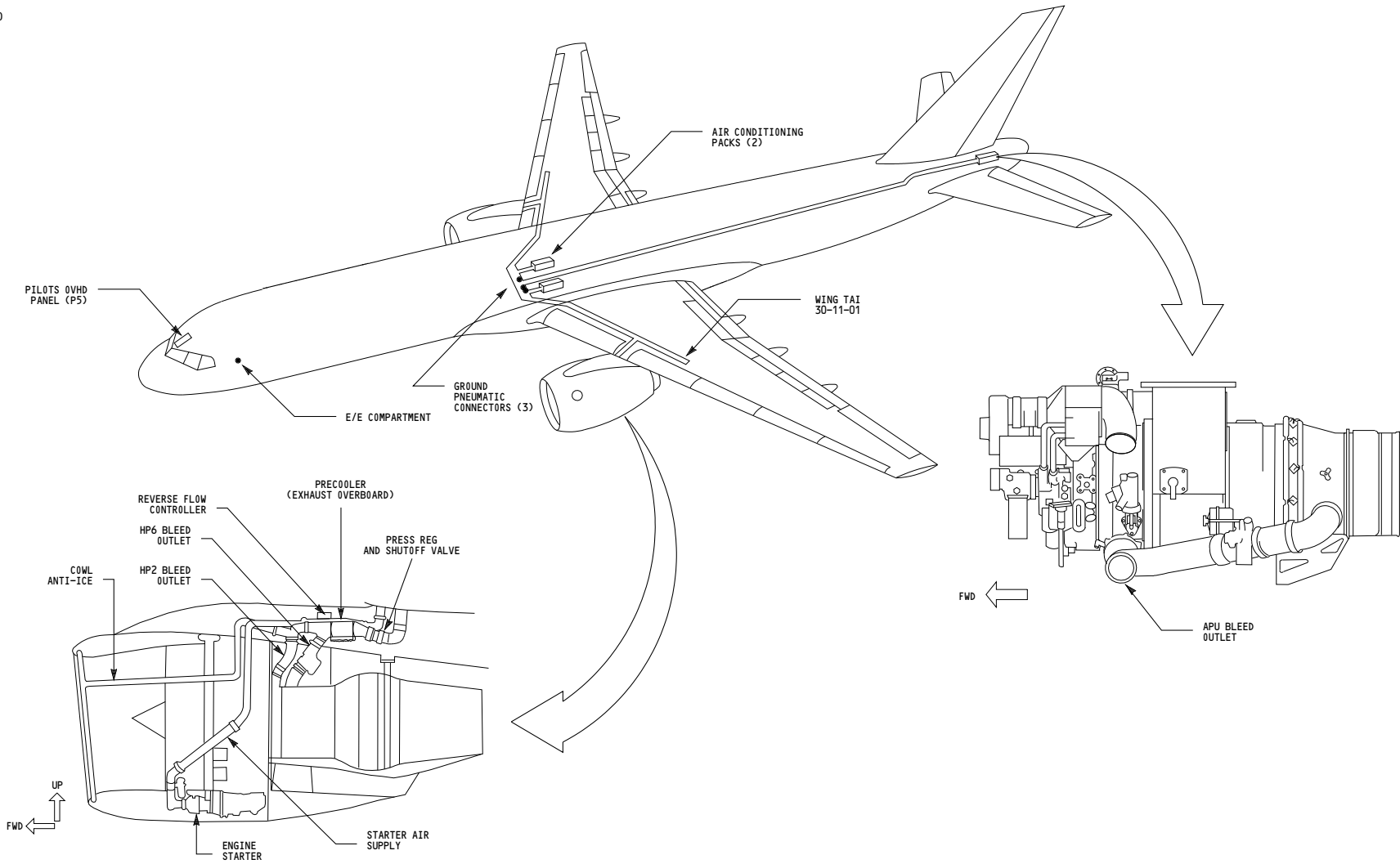
**PNEUMATIC SYSTEM - SIMPLIFIED**

D280N032S

**36-00-00**

Page 101  
Sheet 1  
Jan 21/2005

5000



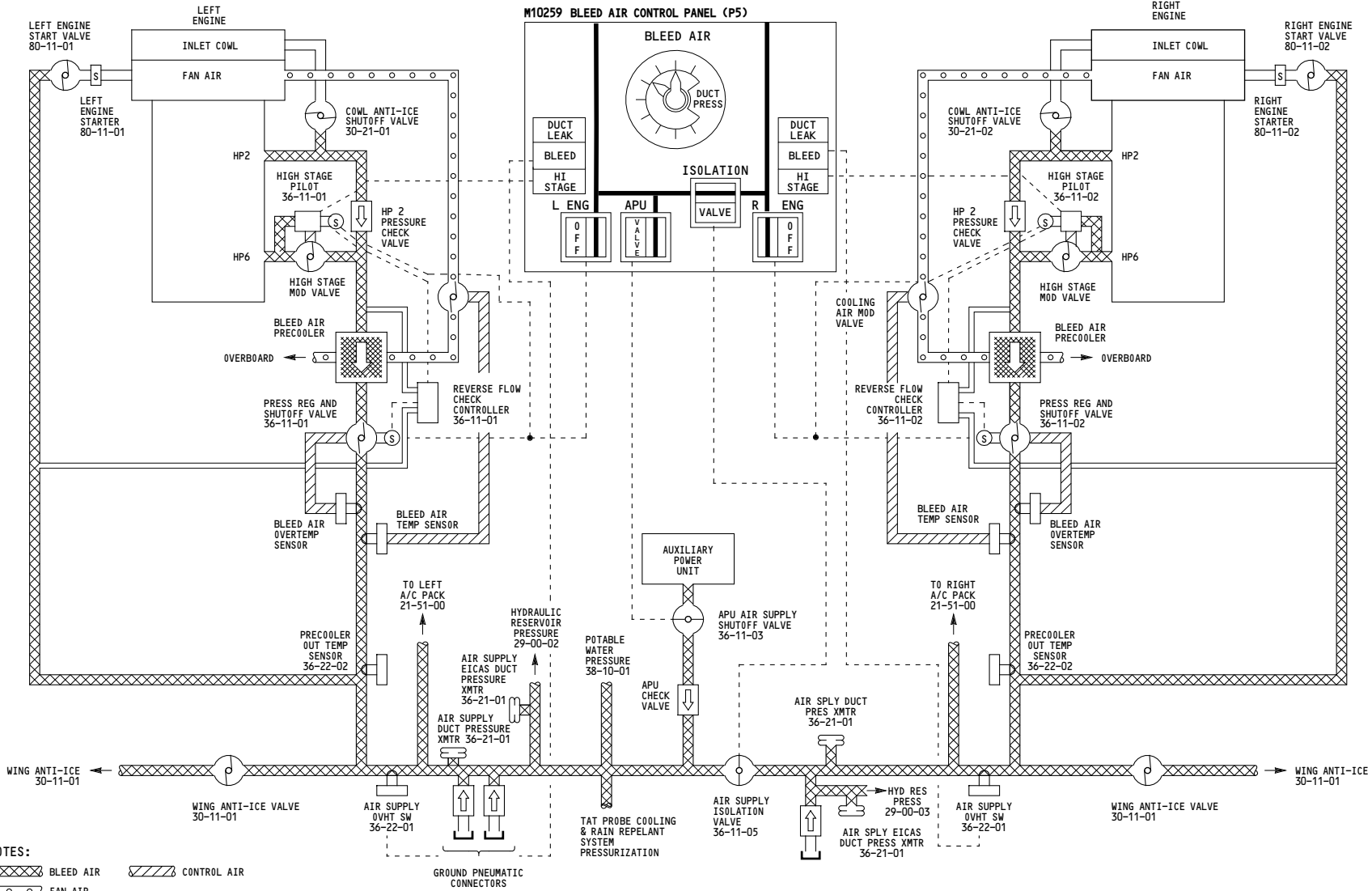
001-099	<p align="center"><b>PNEUMATIC SYSTEM - SIMPLIFIED</b></p> <p align="center">D280N032S</p>
---------	--

**36-00-00**

Page 101  
Sheet 2  
Jan 21/2005



5000



115-199

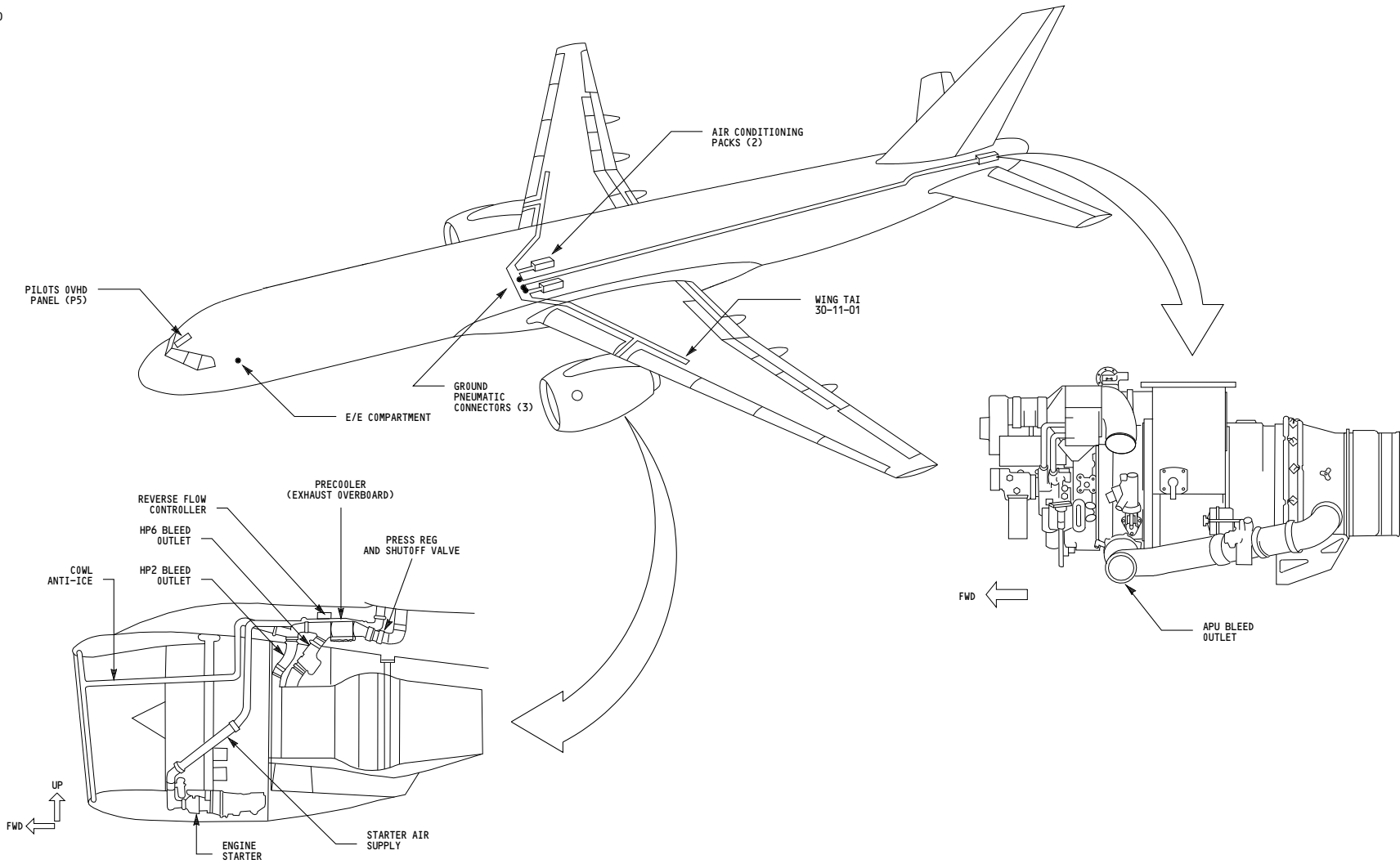
**PNEUMATIC SYSTEM - SIMPLIFIED**

D280N032S

**36-00-00**

Page 102  
Sheet 1  
Jan 21/2005

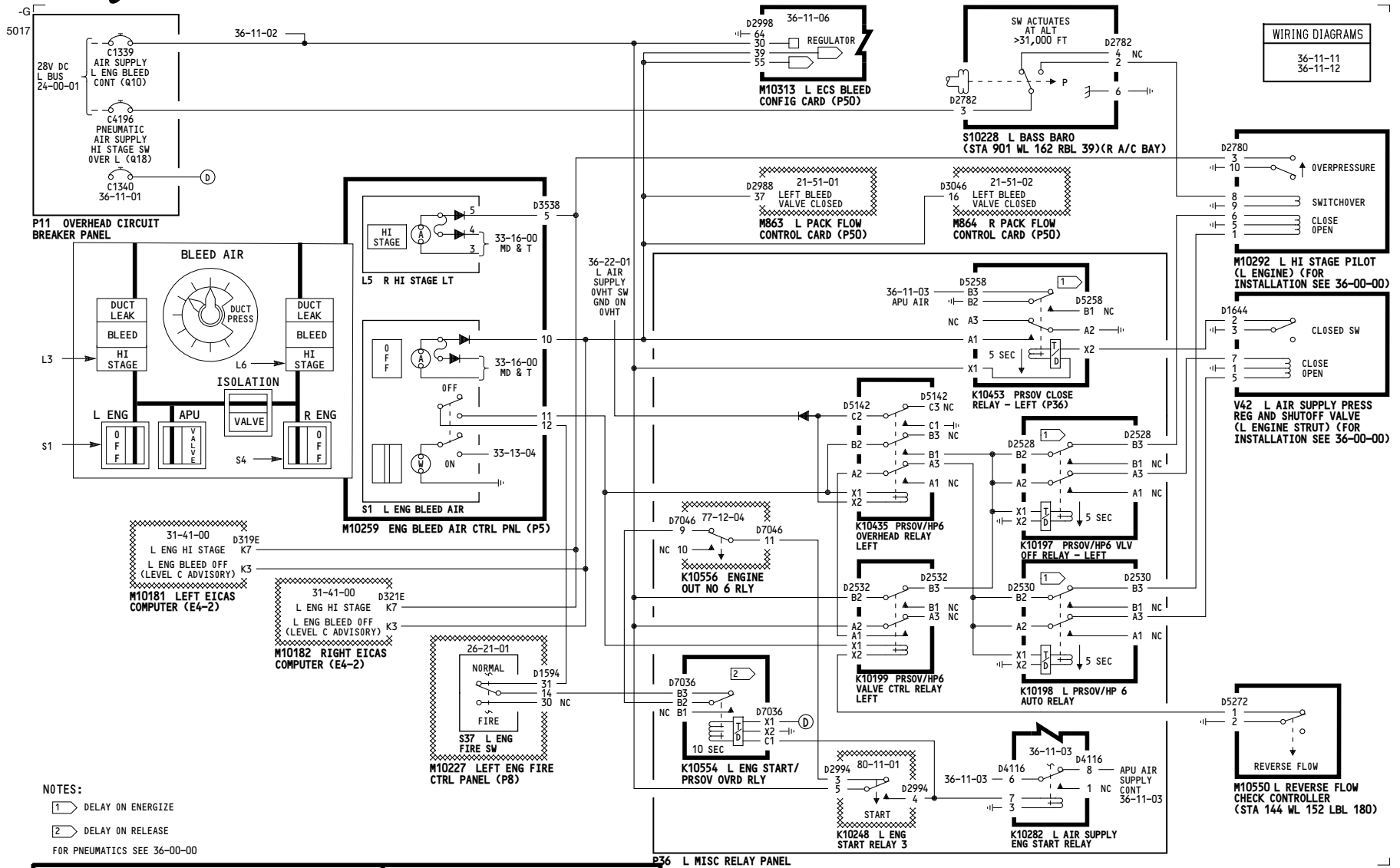
5000



<p>115-199</p>	<p><b>PNEUMATIC SYSTEM - SIMPLIFIED</b></p> <p>D280N032S</p>
----------------	--

**36-00-00**

Page 102  
Sheet 2  
Jan 21/2005



WIRING DIAGRAMS  
36-11-11  
36-11-12

D2780  
3 10  
8 9  
6 5  
1  
OVERPRESSURE  
SWITCHOVER  
CLOSE  
OPEN

M10292 L HI STAGE PILOT (L ENGINE) (FOR INSTALLATION SEE 36-00-00)

D1644  
3  
7  
1  
5  
CLOSED SW  
CLOSE  
OPEN

V42 L AIR SUPPLY PRESS REG AND SHUTOFF VALVE (L ENGINE STRUT) (FOR INSTALLATION SEE 36-00-00)

D5272  
1 2  
REVERSE FLOW  
M10550 L REVERSE FLOW CHECK CONTROLLER (STA 144 WL 152 LBL 180)

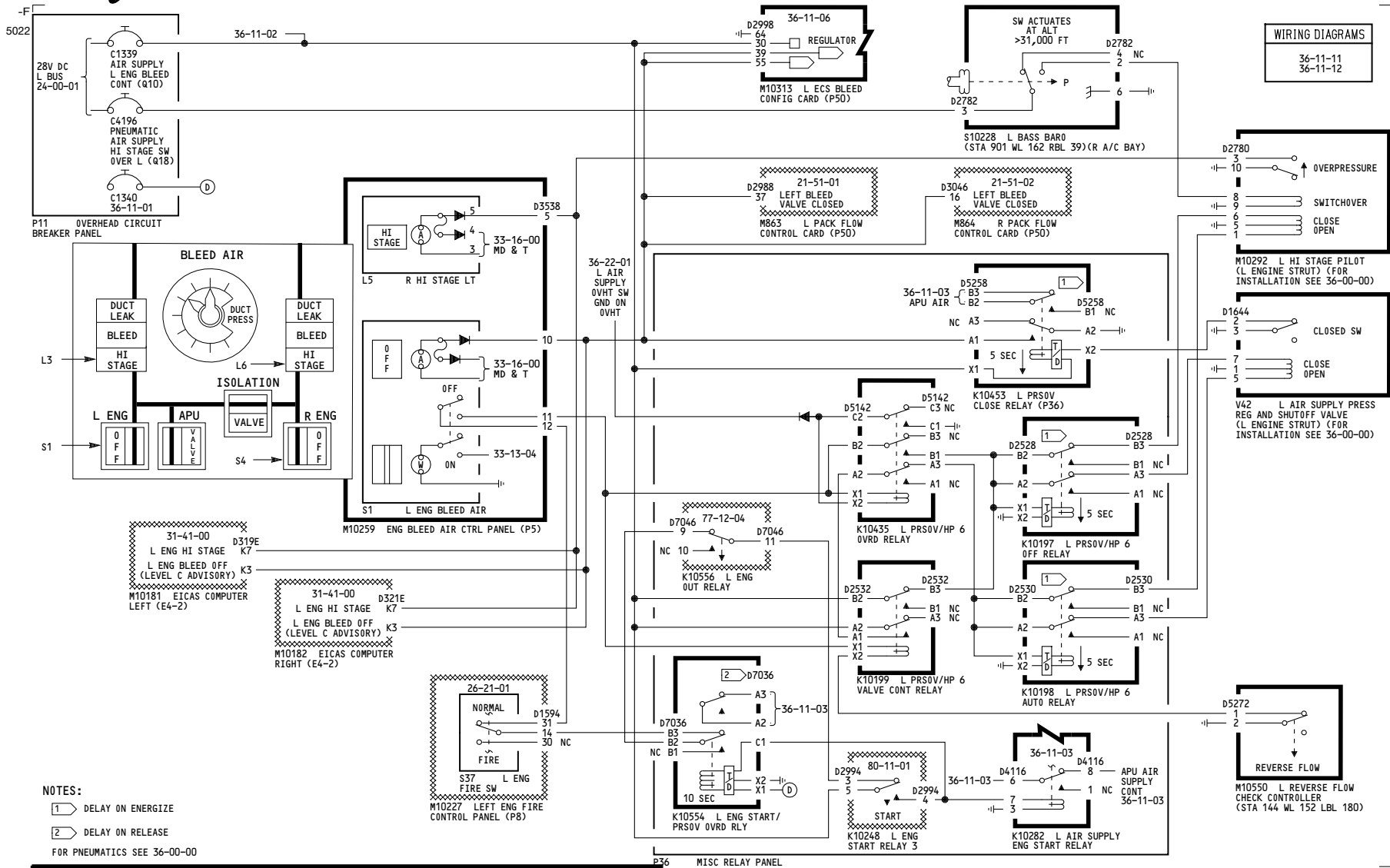
NOTES:  
1 DELAY ON ENERGIZE  
2 DELAY ON RELEASE  
FOR PNEUMATICS SEE 36-00-00

001-009

**BLEED AIR CONTROL - LEFT ENGINE**

D280N032S

**36-11-01**



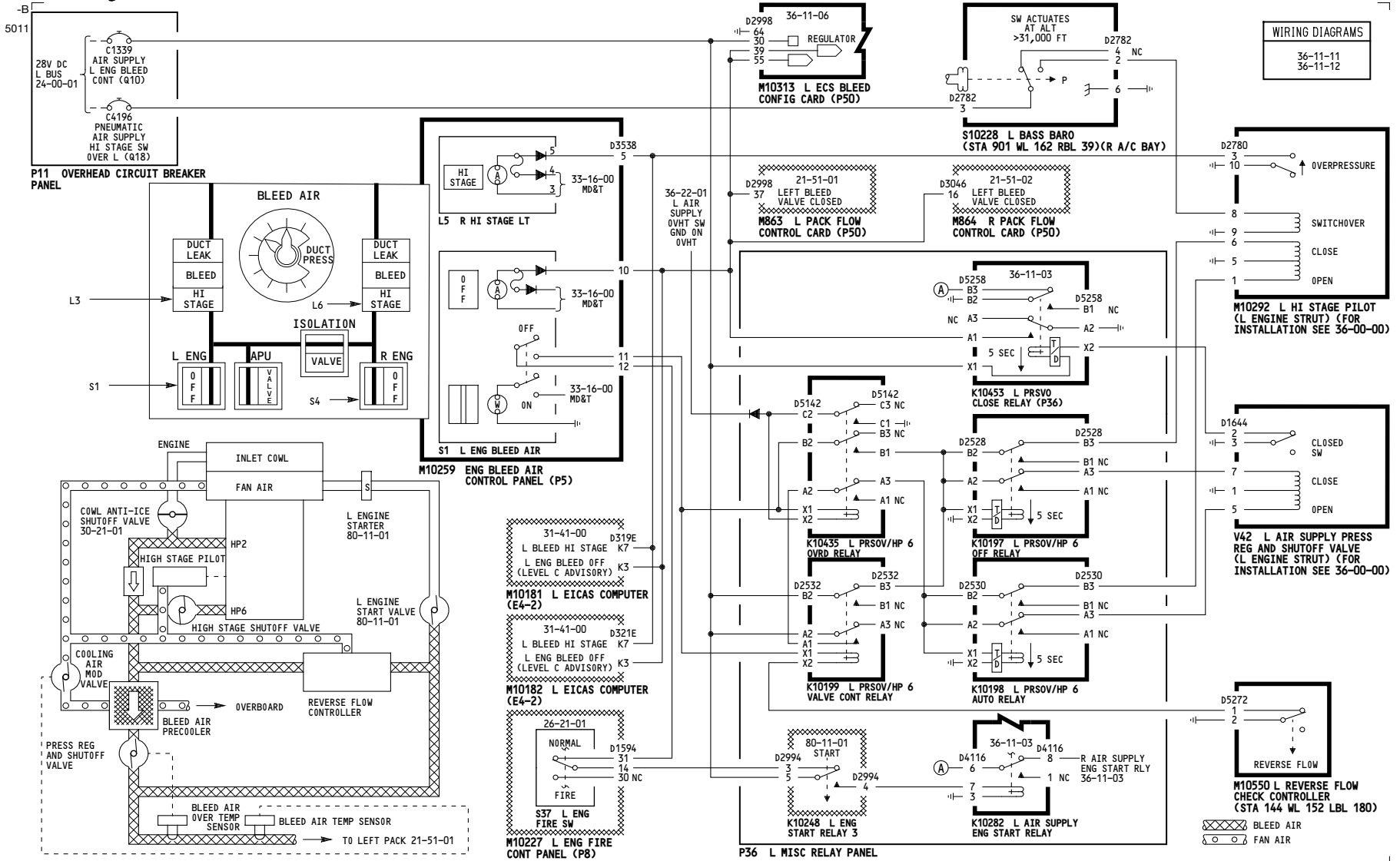
**NOTES:**  
 1 DELAY ON ENERGIZE  
 2 DELAY ON RELEASE  
 FOR PNEUMATICS SEE 36-00-00

010-099

**BLEED AIR CONTROL - LEFT ENGINE**

D280N032S

**36-11-01**

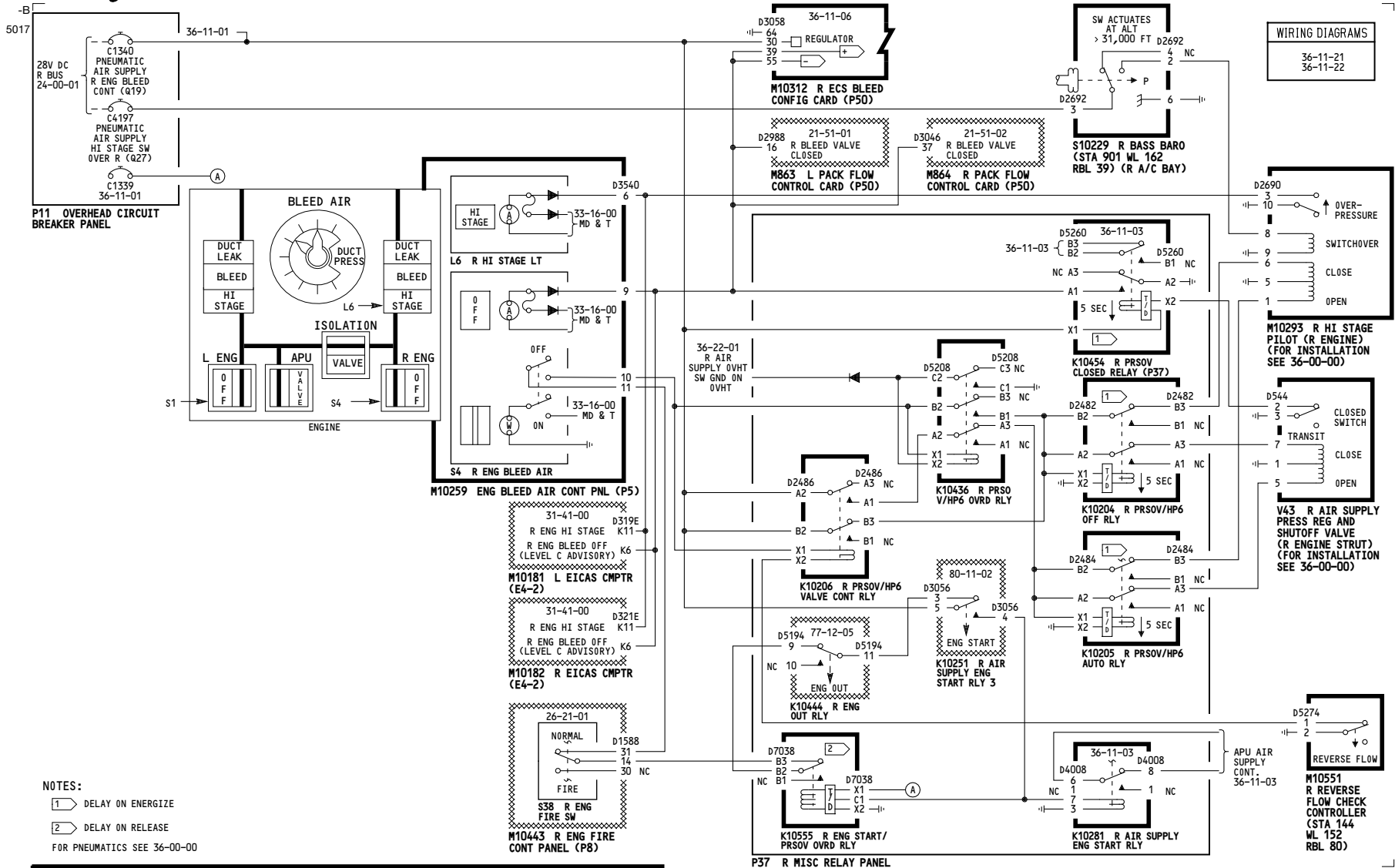


115-199

**BLEED AIR CONTROL - LEFT ENGINE**

D280N032S

**36-11-01**



WIRING DIAGRAMS  
36-11-21  
36-11-22

D2690  
3 10  
8  
6  
9  
5  
1  
OVER-PRESSURE  
SWITCHOVER  
CLOSE  
OPEN  
M10293 R HI STAGE PILOT (R ENGINE) (FOR INSTALLATION SEE 36-00-00)

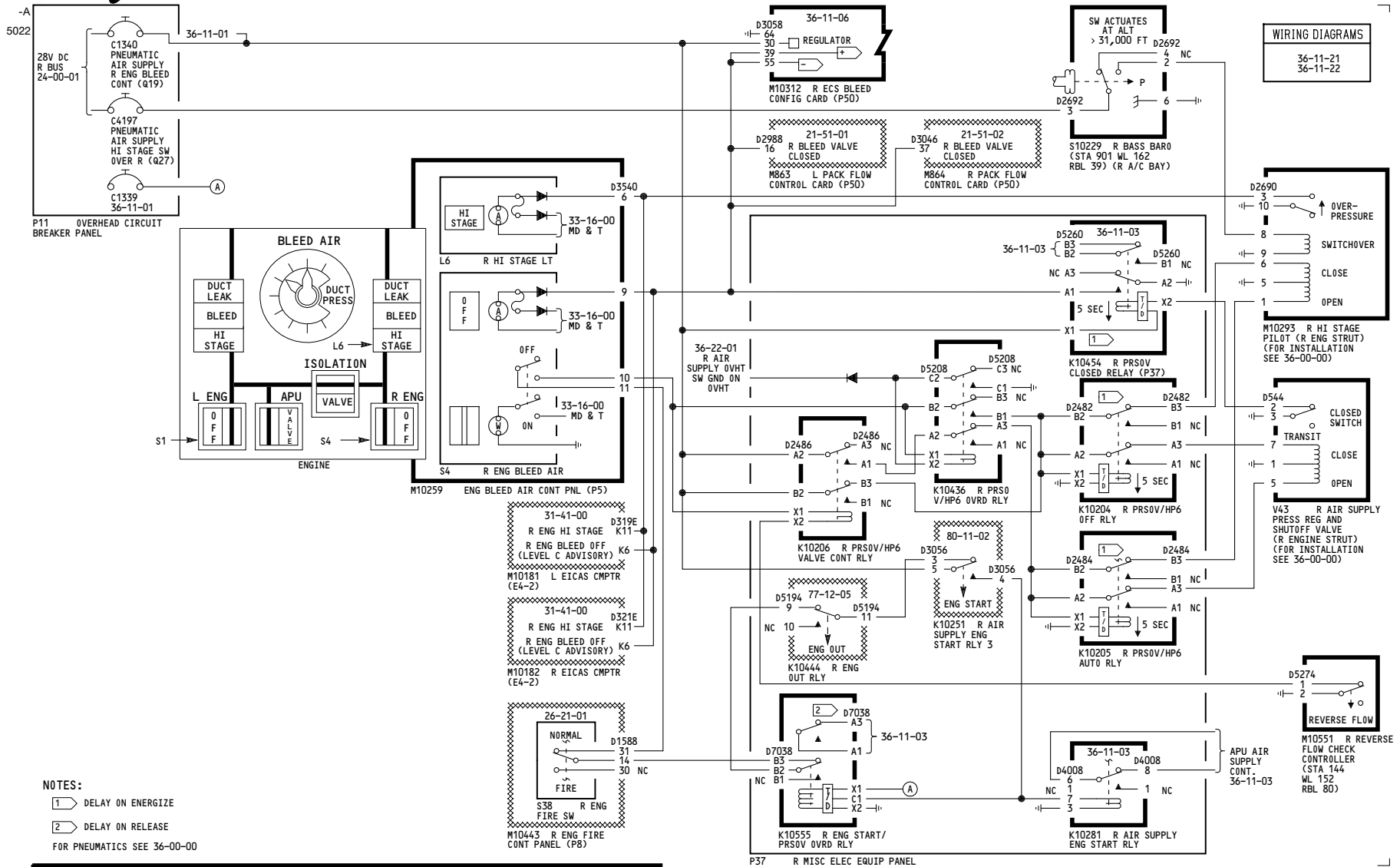
D544  
3  
7  
1  
5  
CLOSED SWITCH  
TRANSIT  
CLOSE  
OPEN  
V43 R AIR SUPPLY PRESS REG AND SHUTOFF VALVE (R ENGINE STRUT) (FOR INSTALLATION SEE 36-00-00)

D5274  
1  
2  
REVERSE FLOW  
M10551 R REVERSE FLOW CHECK CONTROLLER (STA 144 WL 152 RBL 80)

NOTES:  
1 DELAY ON ENERGIZE  
2 DELAY ON RELEASE  
FOR PNEUMATICS SEE 36-00-00

001-009	<p><b>BLEED AIR CONTROL - RIGHT ENGINE</b></p> <p>D280N032S</p>
---------	---

**36-11-02**

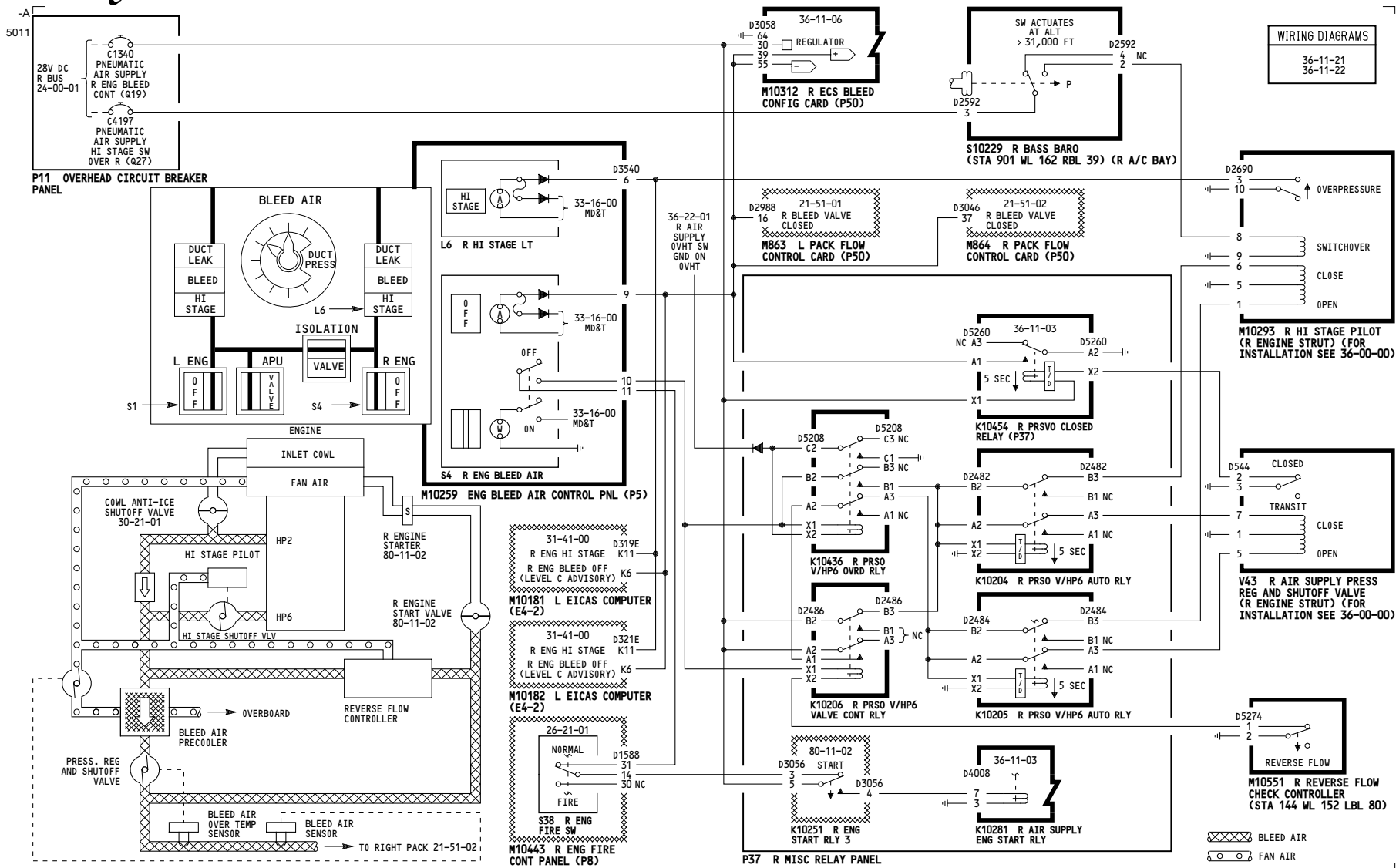


010-099	<b>BLEED AIR CONTROL - RIGHT ENGINE</b>  D280N032S
---------	--

**36-11-02**

Page 102

Jan 21/2005



**WIRING DIAGRAMS**  
36-11-21  
36-11-22

**M10293 R HI STAGE PILOT (R ENGINE STRUT) (FOR INSTALLATION SEE 36-00-00)**

- 3 10 OVERPRESSURE
- 8 SWITCHOVER
- 9 CLOSE
- 5 OPEN

**V43 R AIR SUPPLY PRESS REG AND SHUTOFF VALVE (R ENGINE STRUT) (FOR INSTALLATION SEE 36-00-00)**

- 5 444 CLOSED
- 2 3 TRANSIT
- 7 1 CLOSE
- 5 5 OPEN

115-199

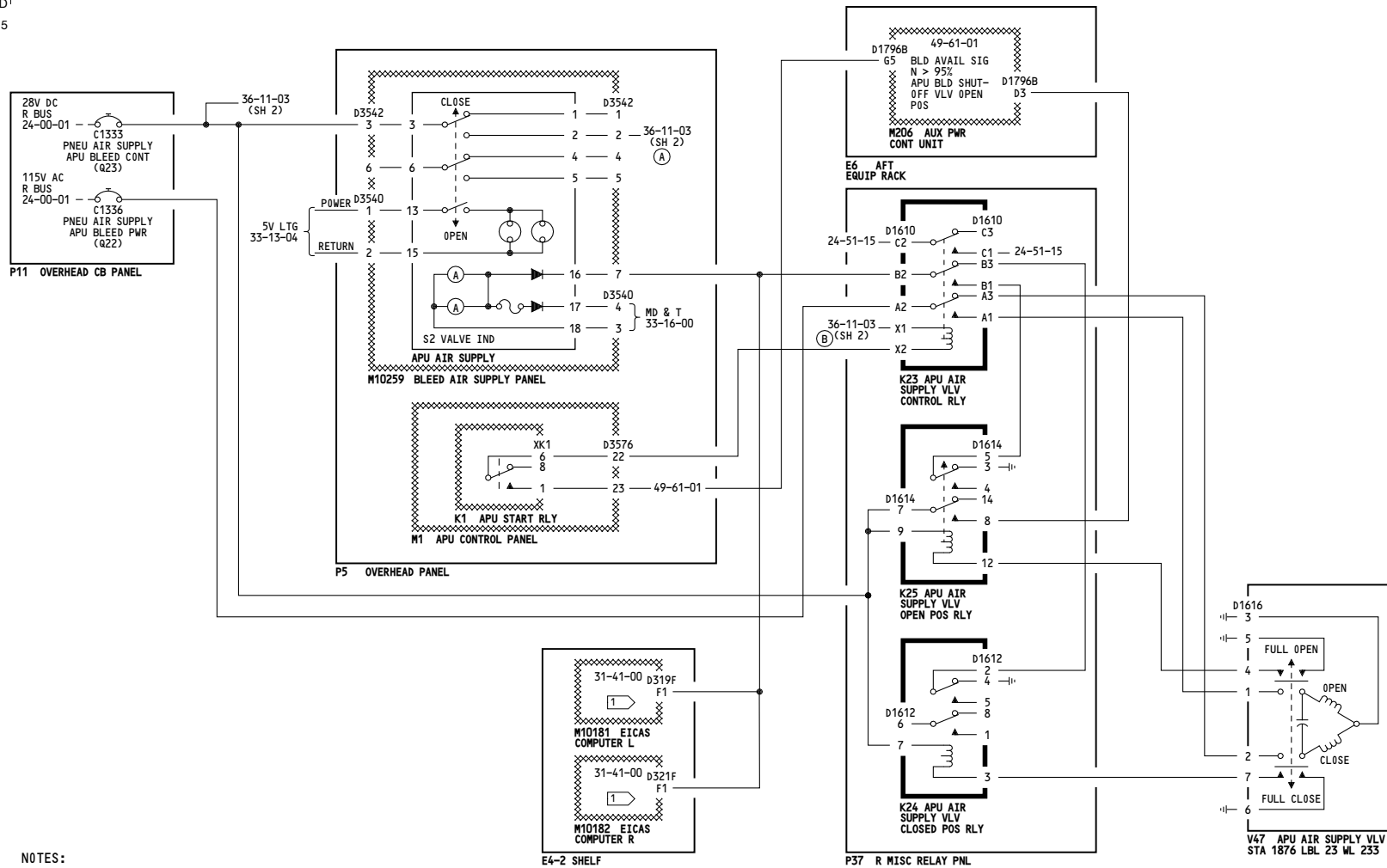
**BLEED AIR CONTROL - RIGHT ENGINE**

D280N032S

**36-11-02**



-D  
5015



**NOTES:**

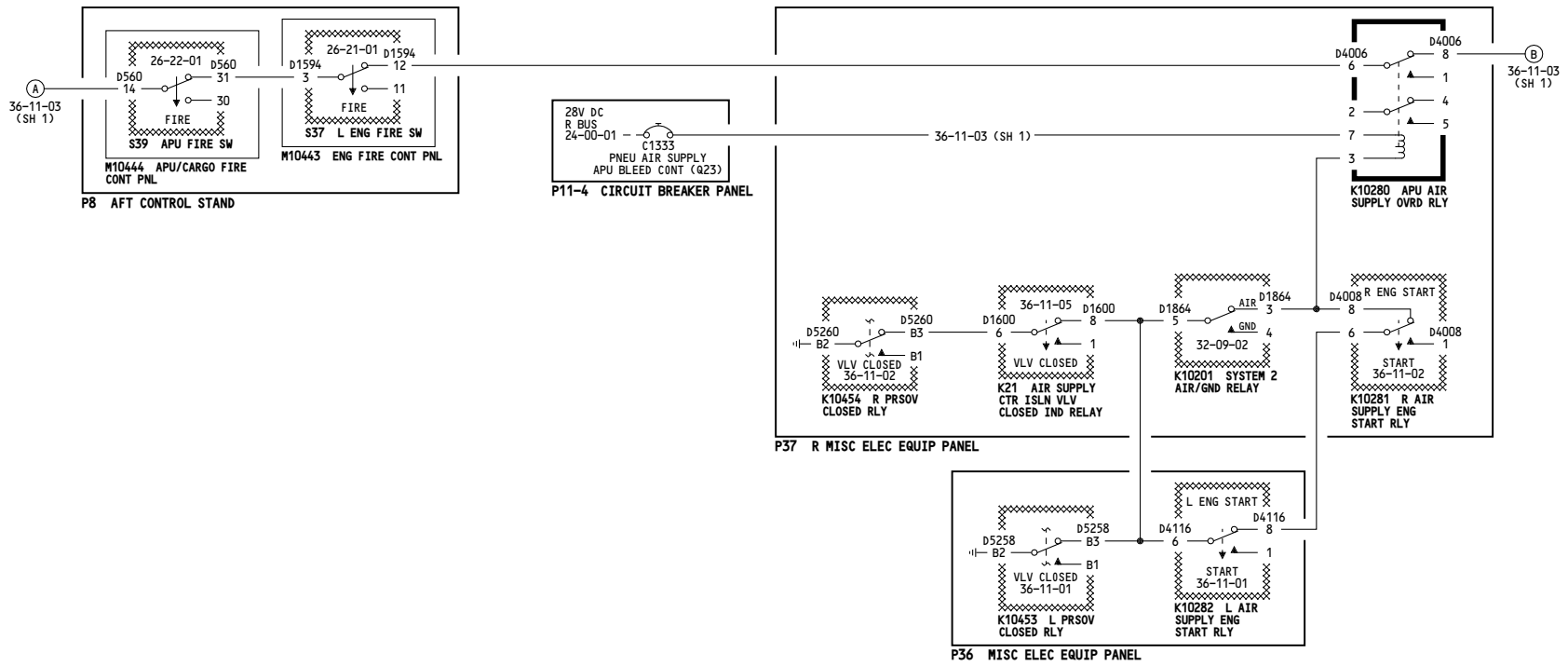
1. WIRE GAGE NO.24 AWG
2. WIRE SEPARATION N2

1 EICAS CAUTION ADVISORY MESSAGE "APU BLEED VAL"  
EICAS WILL PROVIDE A 6 SEC TIME DELAY BEFORE  
REGISTERING A FAULT CONDITION.

001-009	<p><b>APU AIR SUPPLY VALVE CONTROL</b></p> <p>D280N032S</p>
---------	---

**36-11-03**

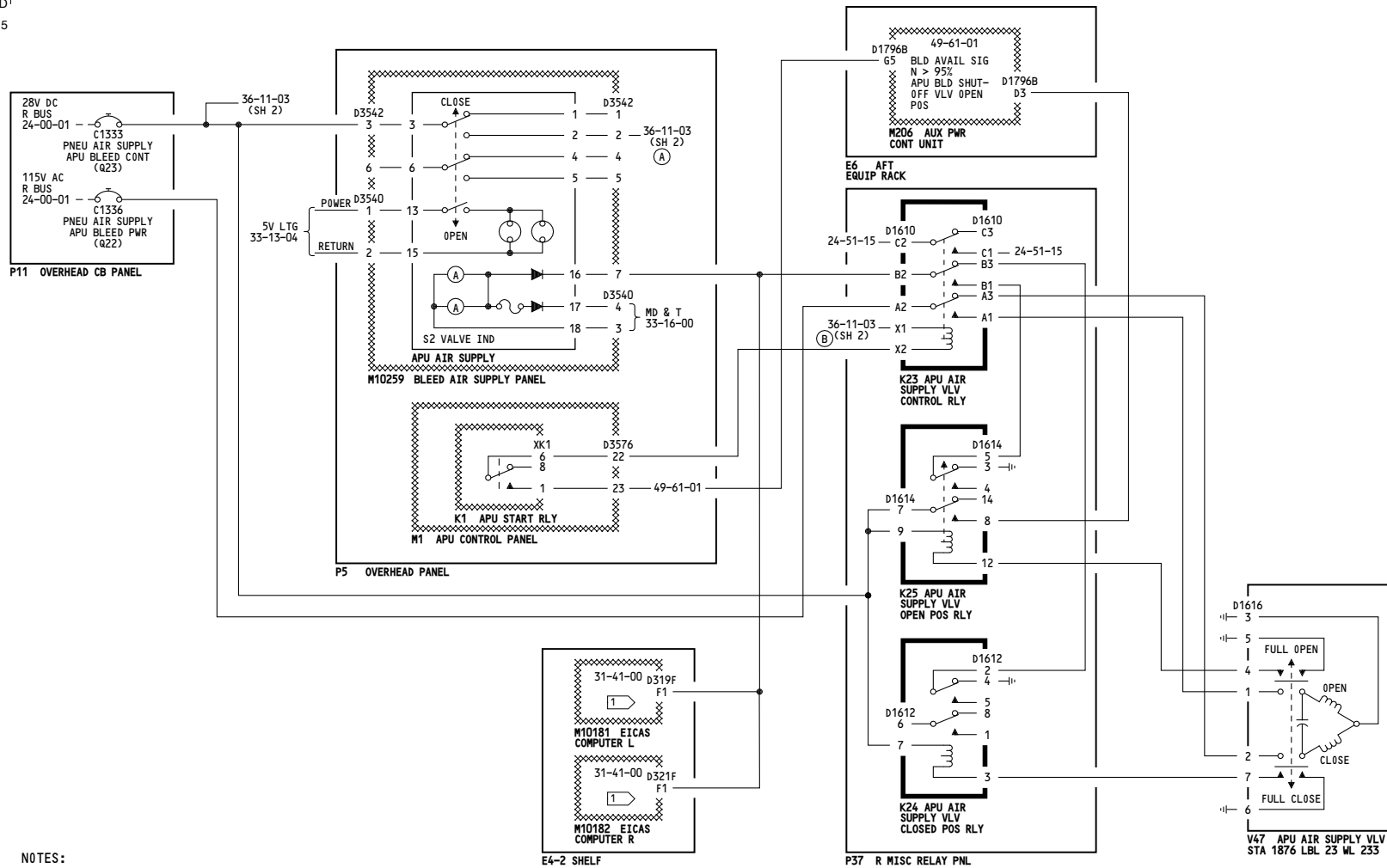
-A  
5012



001-009	<p align="center"><b>APU AIR SUPPLY VALVE CONTROL</b></p> <p align="center">D280N032S</p>
---------	---

**36-11-03**

-D  
5015



**NOTES:**

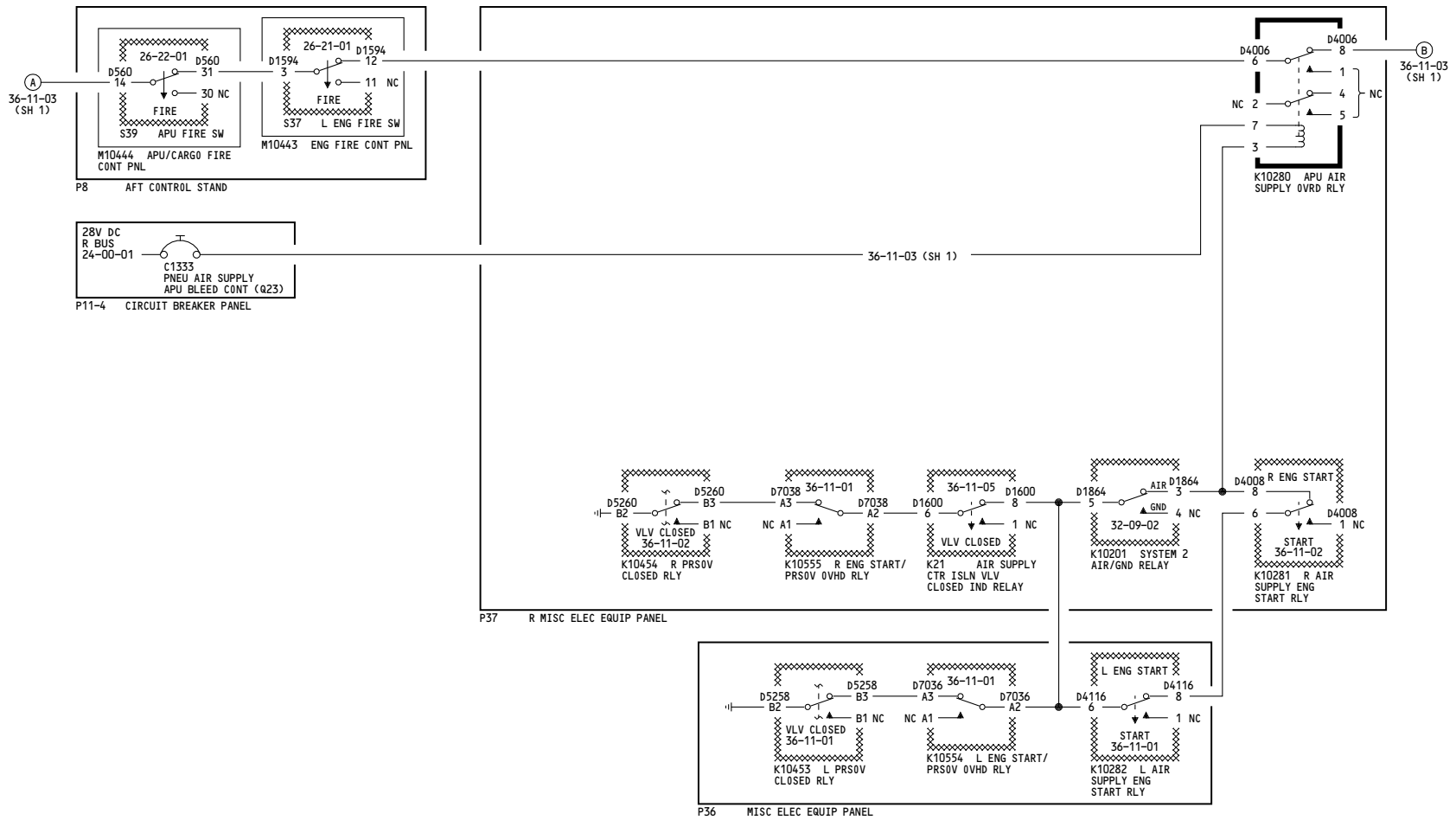
1. WIRE GAGE NO.24 AWG
2. WIRE SEPARATION N2

1 EICAS CAUTION ADVISORY MESSAGE "APU BLEED VAL"  
EICAS WILL PROVIDE A 6 SEC TIME DELAY BEFORE  
REGISTERING A FAULT CONDITION.

010-099	<b>APU AIR SUPPLY VALVE CONTROL</b>
D280N032S	

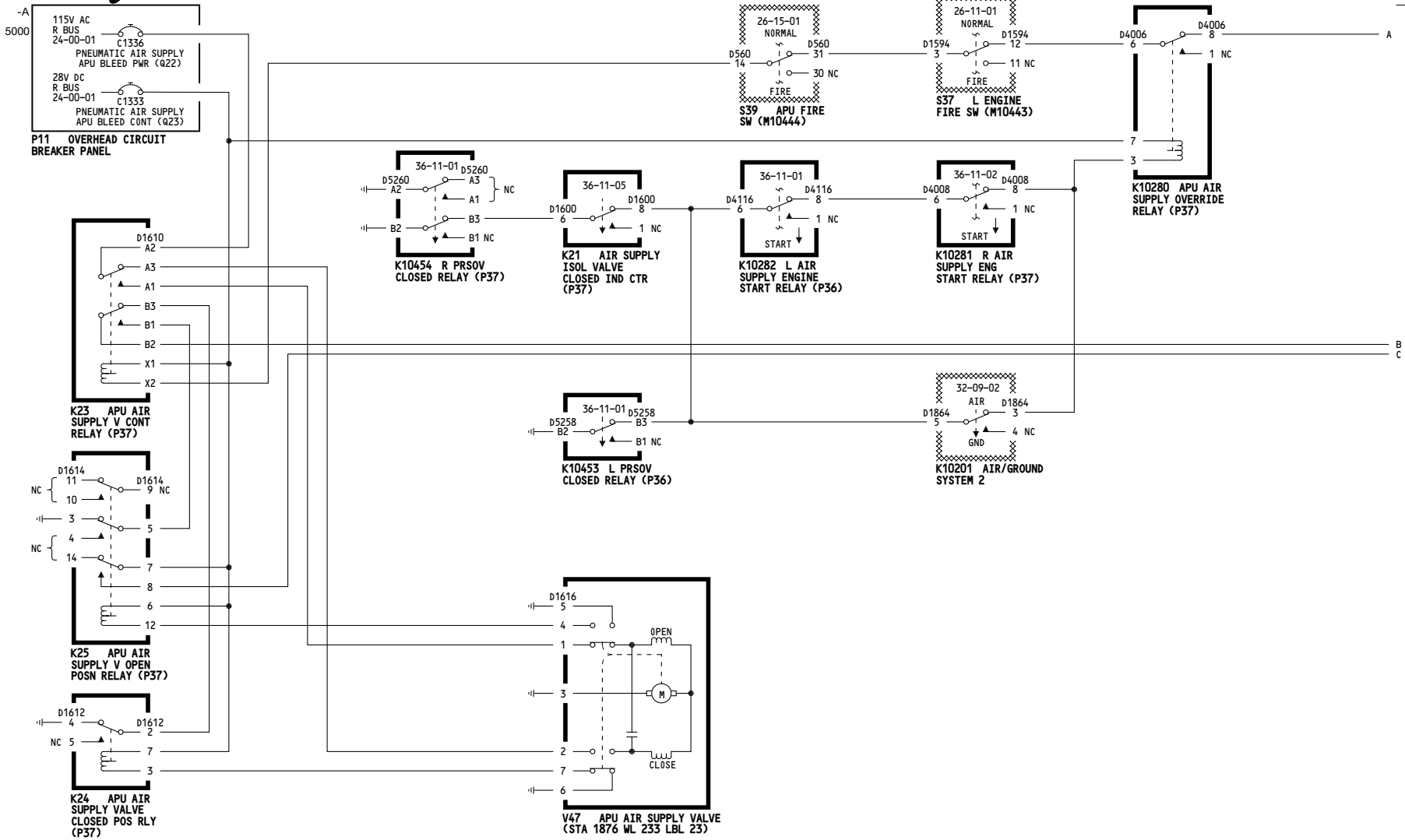
**36-11-03**

5015



010-099	<p align="center"><b>APU AIR SUPPLY VALVE CONTROL</b></p> <p align="center">D280N032S</p>
---------	---

**36-11-03**



115-199

**APU AIR SUPPLY VALVE CONTROL**

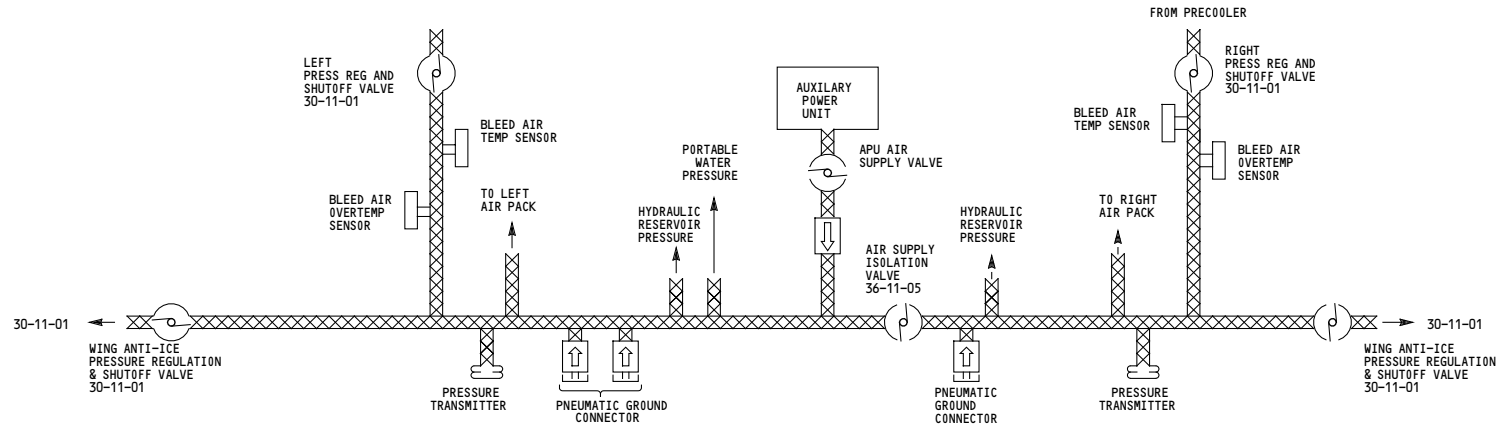
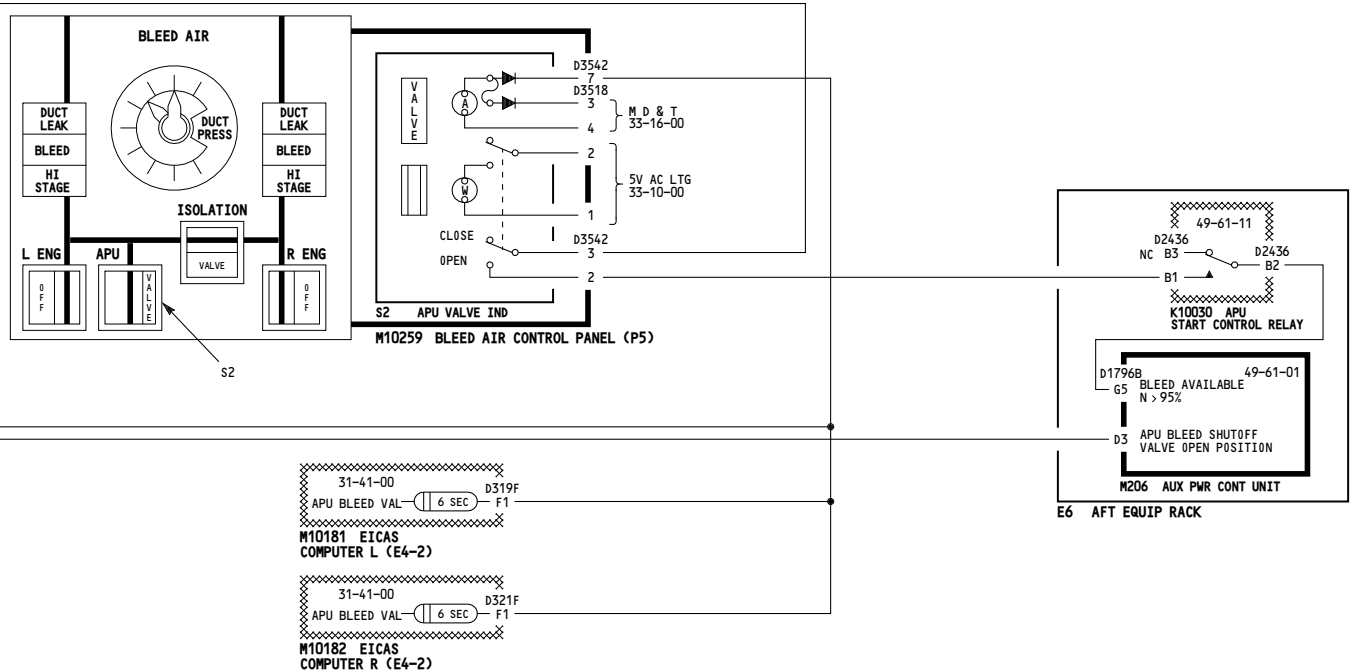
D280N032S

**36-11-03**

Page 103  
Sheet 1  
Jan 21/2005

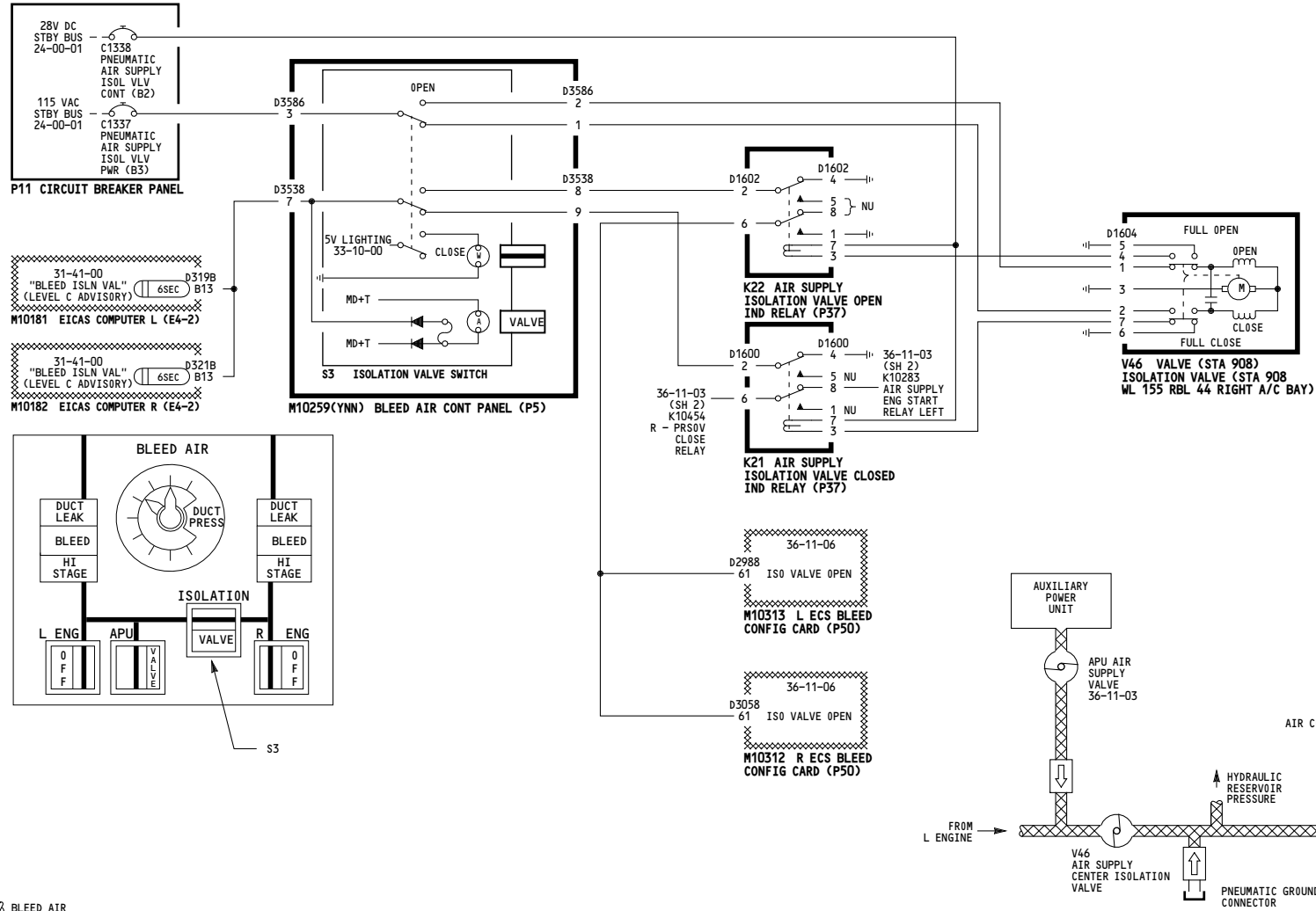
-A  
5000 A

WIRING DIAGRAMS  
36-11-41



115-199	<p><b>APU AIR SUPPLY VALVE CONTROL</b></p> <p><b>D280N032S</b></p>
---------	--

**36-11-03**



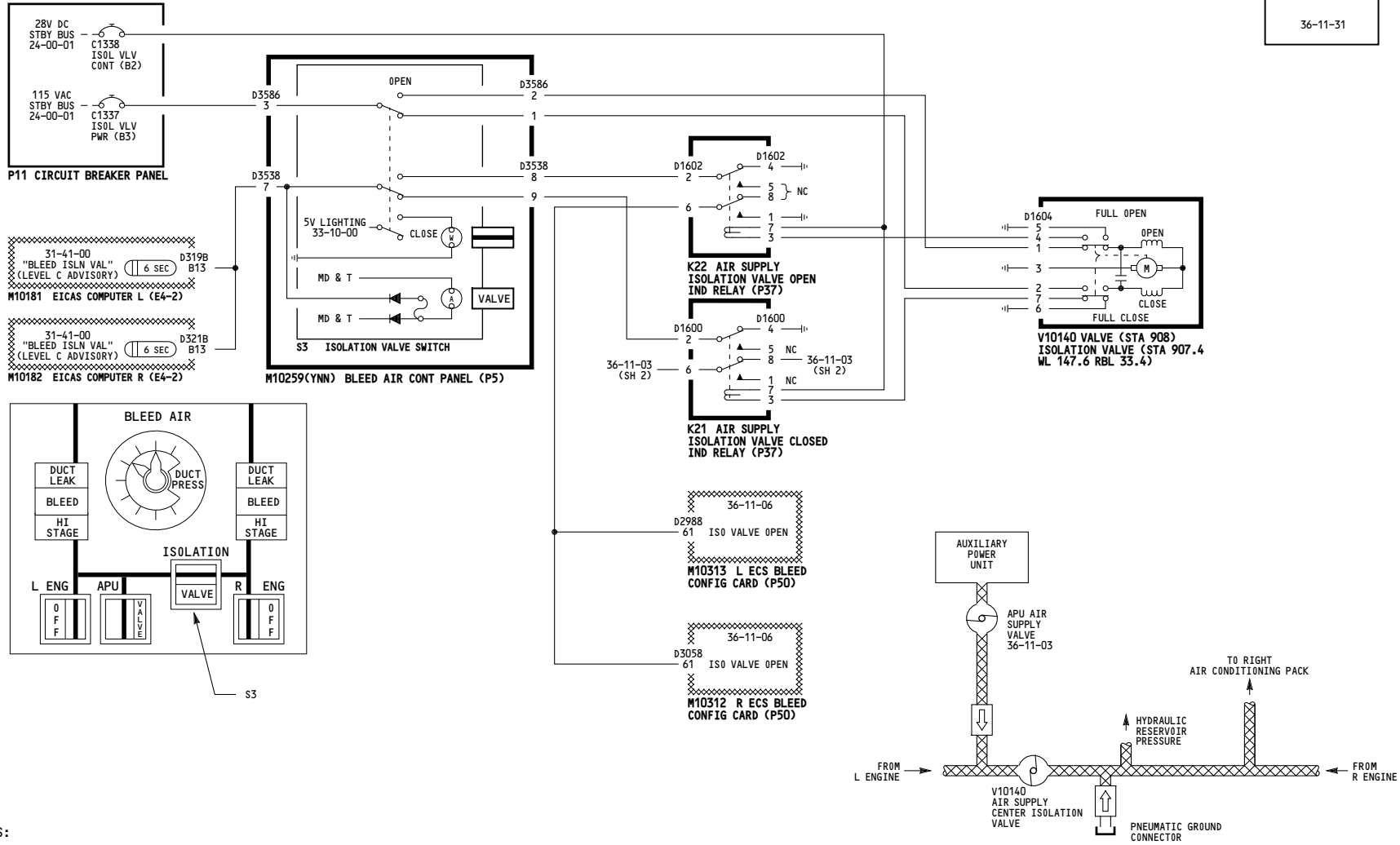
XXXX BLEED AIR

001-008	<b>AIR SUPPLY ISOLATION VALVE CONTROL</b>  D280N032S
---------	--

**36-11-05**

-A  
5013

WIRING DIAGRAMS  
36-11-31



NOTES:  
 BLEED AIR

009-099	<p><b>AIR SUPPLY ISOLATION VALVE CONTROL</b></p> <p>D280N032S</p>
---------	---

**36-11-05**

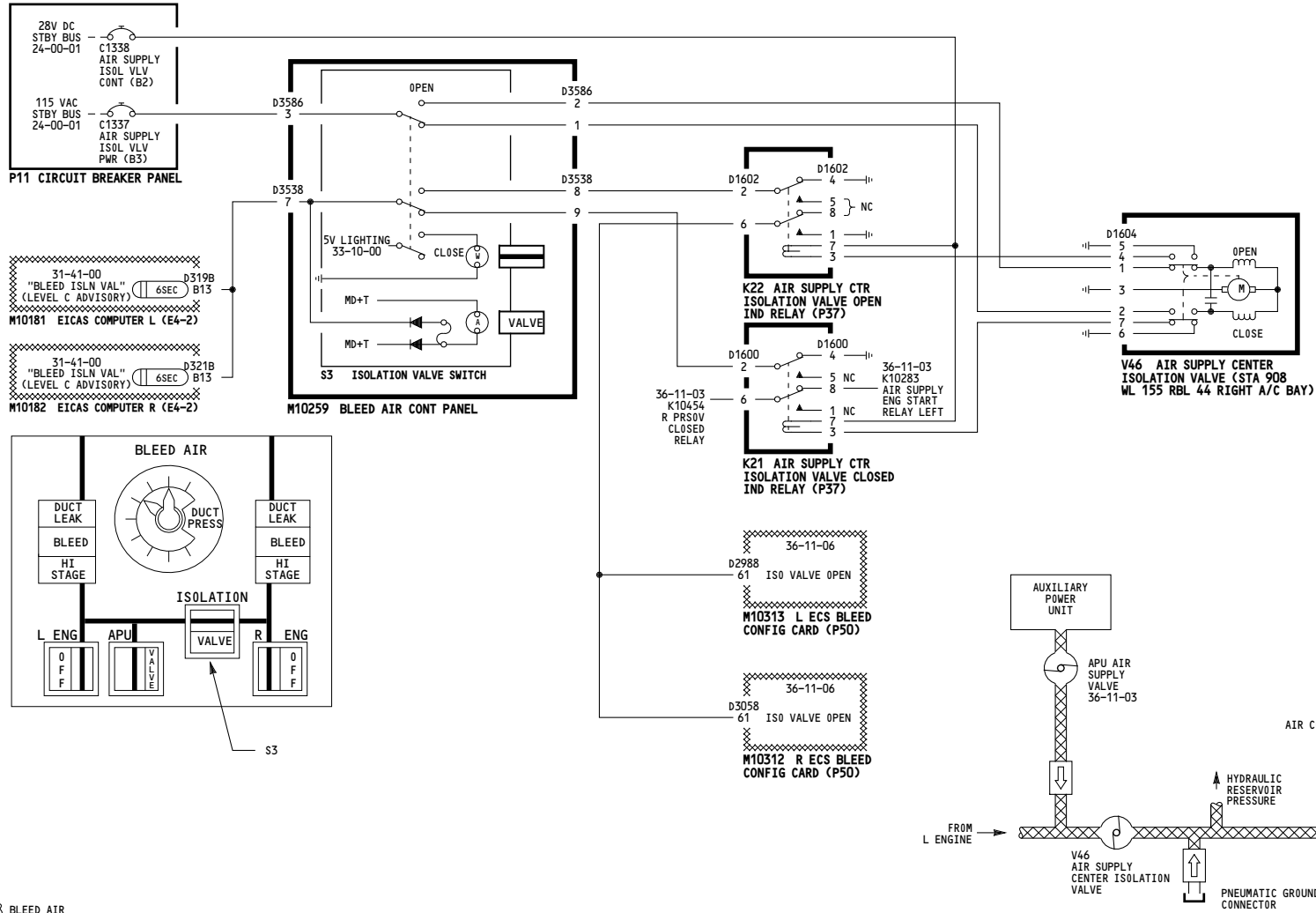
Page 102

Jan 21/2005



5011

WIRING DIAGRAMS  
36-11-31



XXXX BLEED AIR

115-199

**AIR SUPPLY ISOLATION VALVE CONTROL**

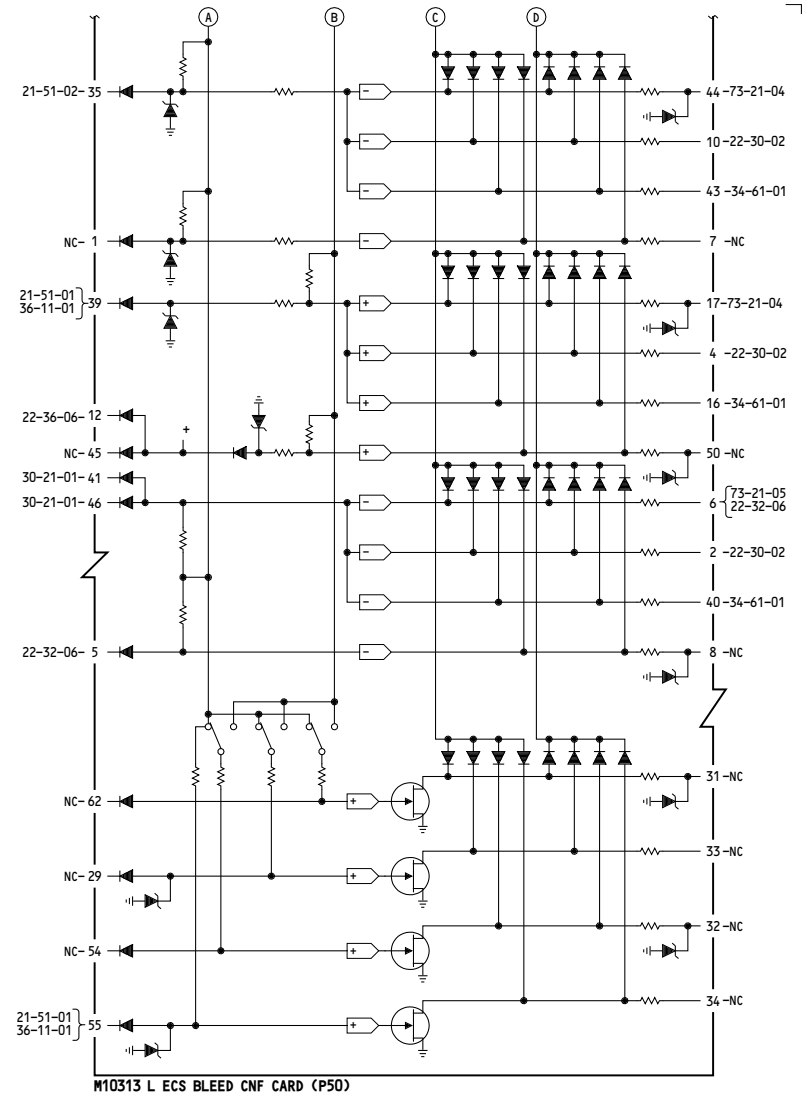
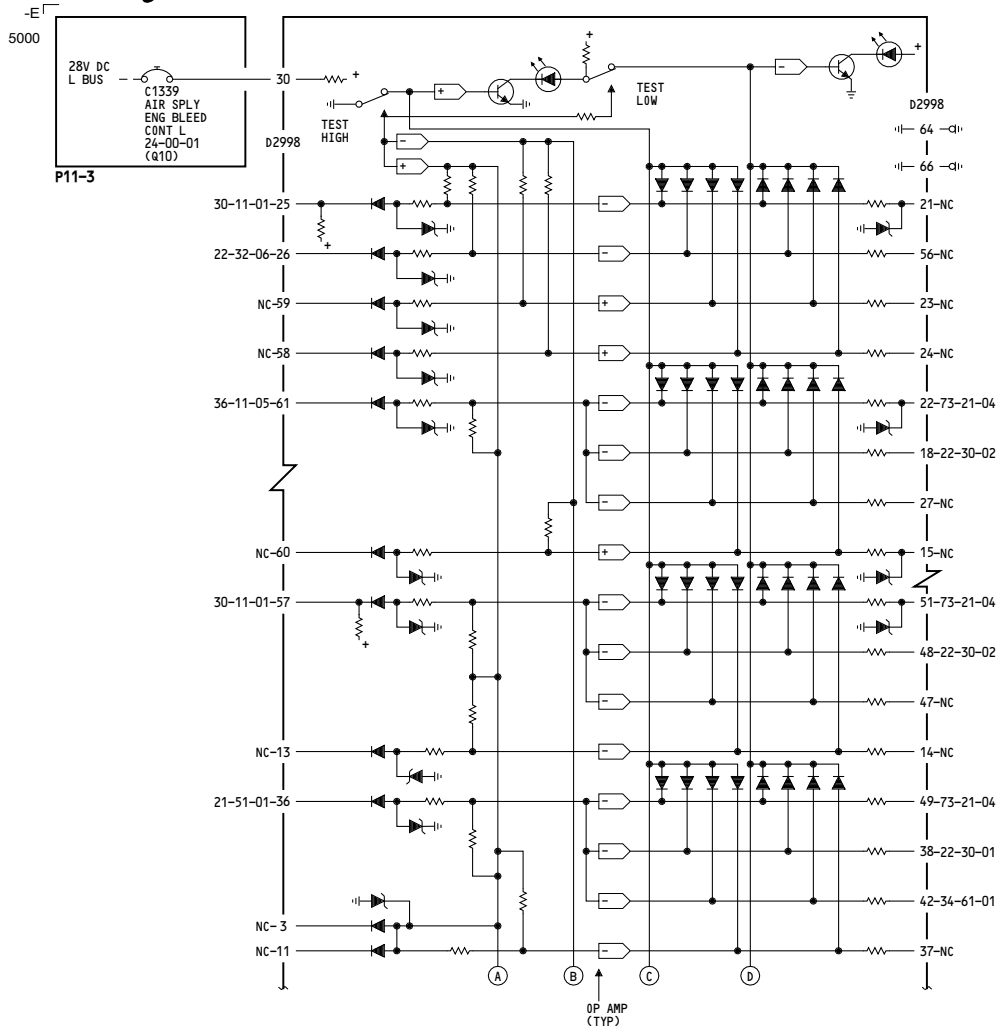
D280N032S

**36-11-05**

Page 103

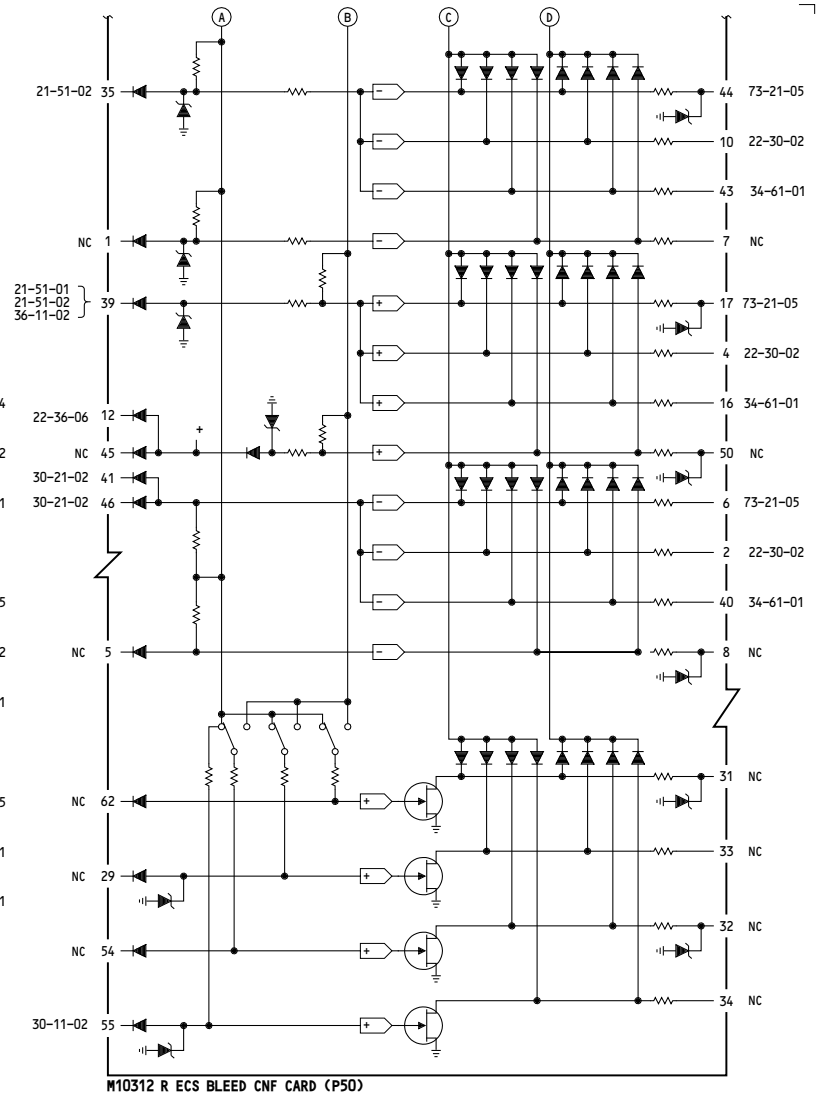
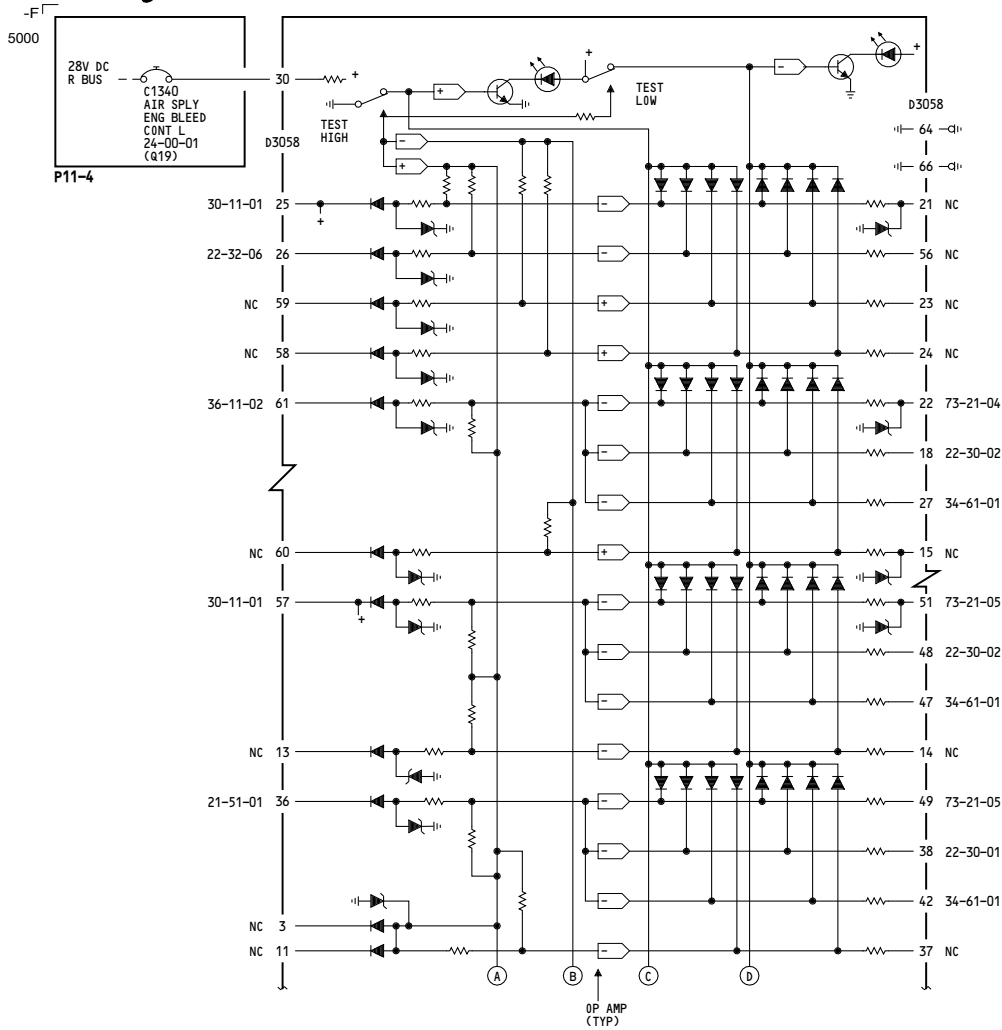
Jan 21/2005

THIS PAGE INTENTIONALLY LEFT BLANK



ALL	<b>ECS BLEED CONFIGURATION CARD</b>
D280N032S	

**36-11-06**

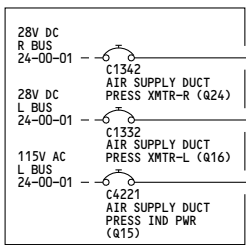


ALL	<b>ECS BLEED CONFIGURATION CARD</b>
D280N032S	

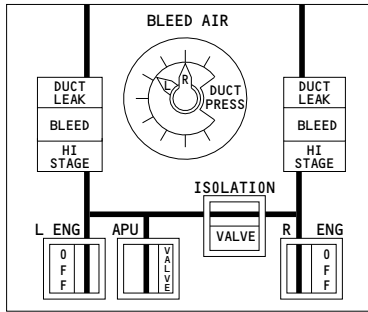
**36-11-06**

Page 101  
Sheet 2  
Jan 21/2005

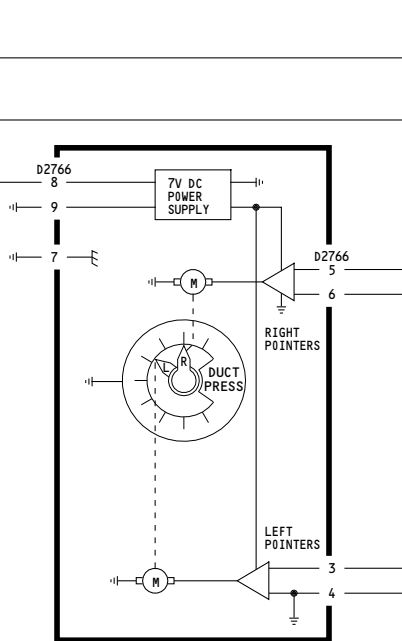
5014



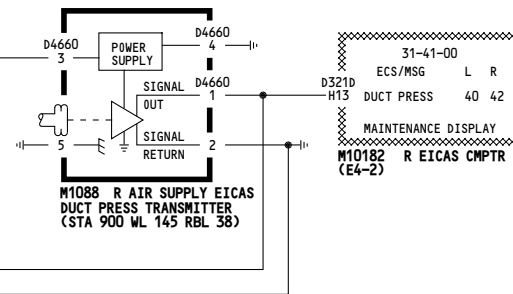
**P11 OVERHEAD CIRCUIT BREAKER PANEL**



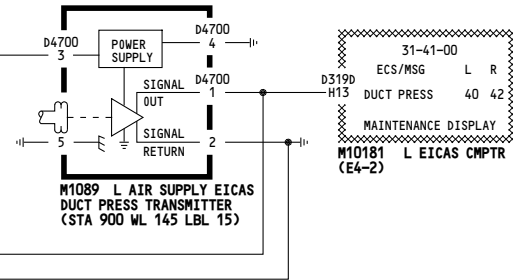
**M10259 BLEED AIR CONTROL PANEL (P5)**



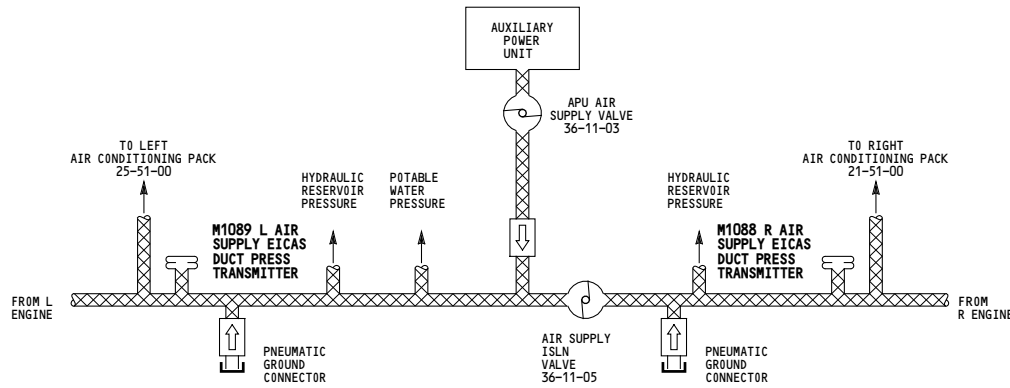
**M10259 M1 DUAL AIR SUPPLY DUCT PRESSURE INDICATOR**



**M1088 R AIR SUPPLY EICAS DUCT PRESS TRANSMITTER (STA 900 WL 145 RBL 38)**



**M1089 L AIR SUPPLY EICAS DUCT PRESS TRANSMITTER (STA 900 WL 145 LBL 15)**



WIRING DIAGRAMS  
36-21-11

001-099

**AIR SUPPLY DUCT PRESSURE INDICATION**

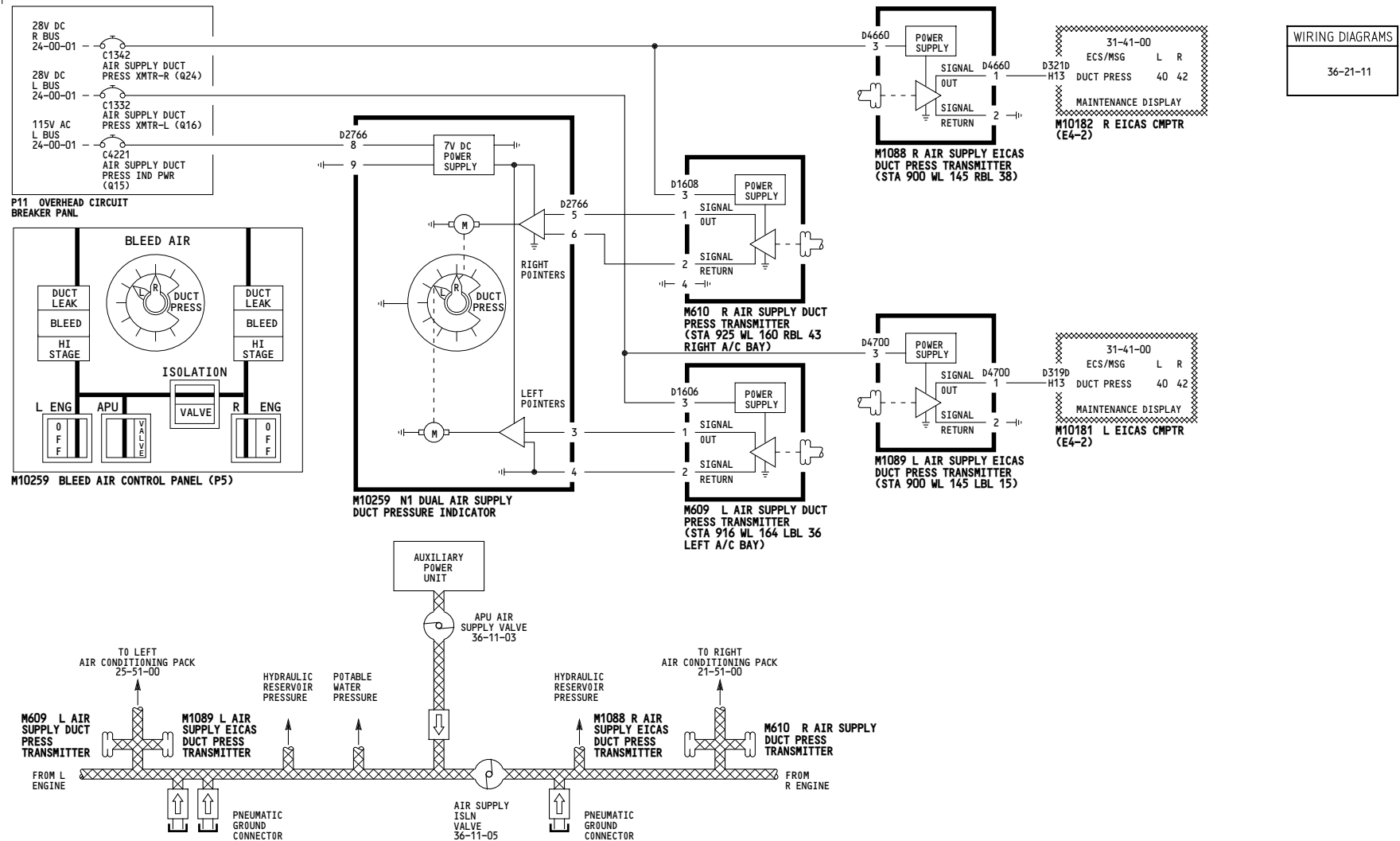
D280N032S

**36-21-01**

Page 101

Jan 21/2005

5011



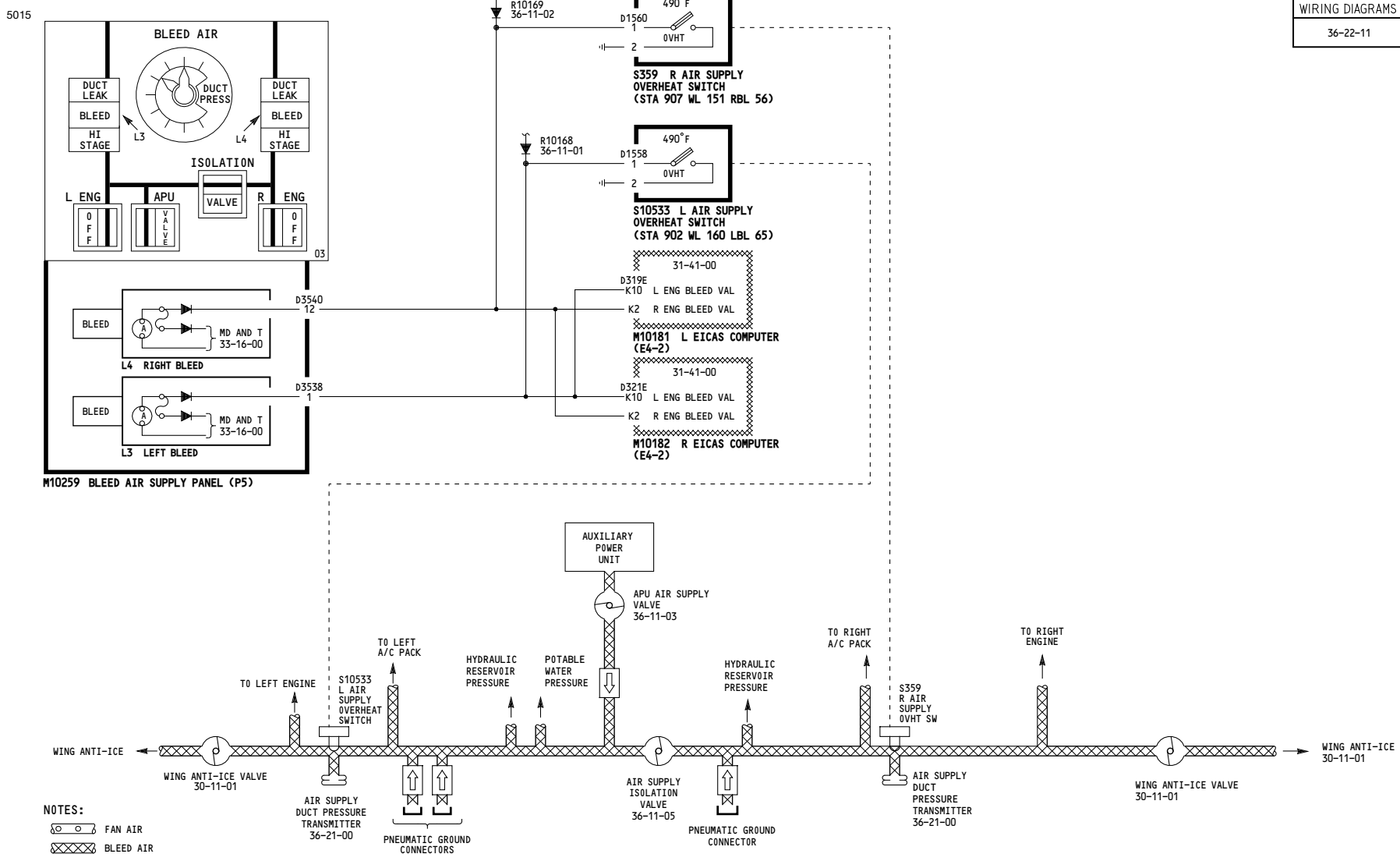
115-199	<p><b>AIR SUPPLY DUCT PRESSURE INDICATION</b></p> <p>D280N032S</p>
---------	--

**36-21-01**

Page 102

Jan 21/2005

WIRING DIAGRAMS  
36-22-11



NOTES:  
 FAN AIR  
 BLEED AIR

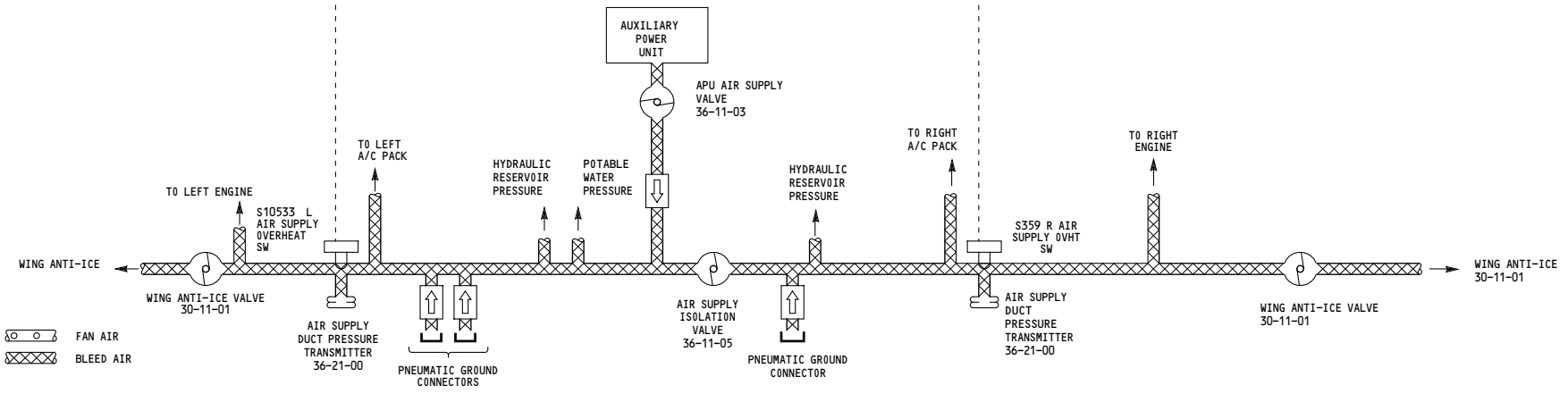
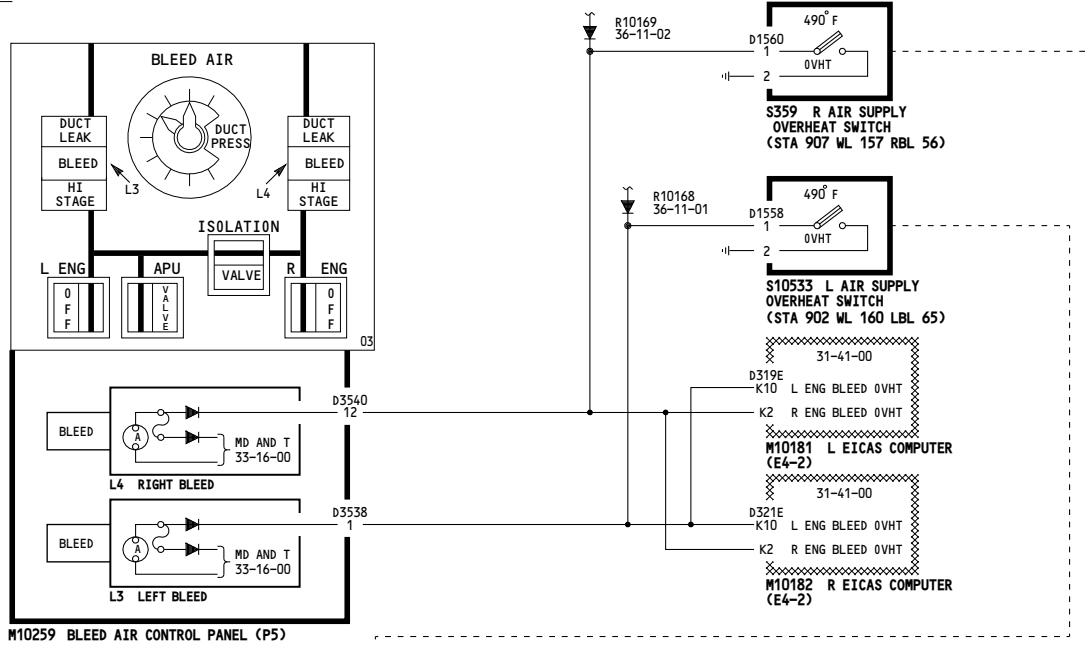
001-099	<p><b>AIR SUPPLY OVERHEAT INDICATION</b></p> <p>D280N032S</p>
---------	---

**36-22-01**

Page 101

Jan 21/2005

5014



115-199	<p><b>AIR SUPPLY OVERHEAT INDICATION</b></p> <p>D280N032S</p>
---------	---

**36-22-01**

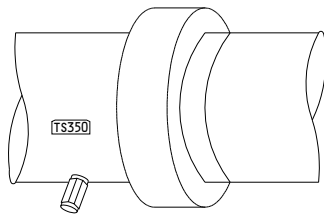
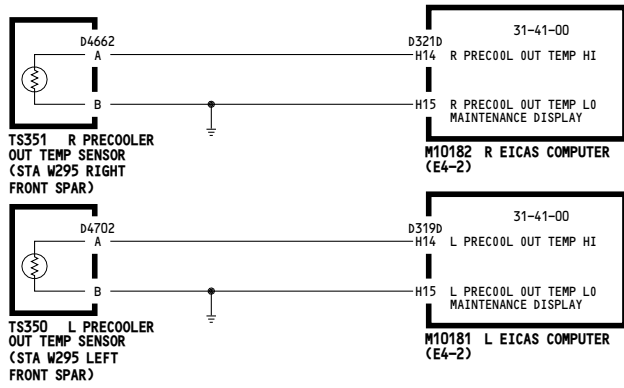
Page 102

Jan 21/2005



5011

WIRING DIAGRAMS  
36-22-21



NOTES:  
FOR PNEUMATICS SEE 36-00-00

ALL	<p><b>PRECOOLER OUT TEMPERATURE INDICATION</b></p> <p>D280N032S</p>
-----	---

**36-22-02**

Page 101

Jan 21/2005