

CHAPTER

28

FUEL



CHAPTER 28
FUEL

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
28-EFFECTIVE PAGES		1 thru 2		Oct 09/2008	28-21-01 (cont.)		101		
28-CONTENTS								2	Jan 21/2005
		1		Dec 18/2007		102		1	Jan 21/2005
R		2		Oct 09/2008				2	Jan 21/2005
R		3		Oct 09/2008		103		1	Jan 21/2005
		4		BLANK				2	Jan 21/2005
28-ALPHABETICAL INDEX					28-21-02				
		1		Dec 18/2007					Jan 21/2005
		2		BLANK	28-22-01				
28-00-00						101			Jan 21/2005
		101		Jan 21/2005		102			Jan 21/2005
		101.1		Dec 18/2007		103			Jan 21/2005
		102		Jan 21/2005	28-22-02				
		103		Jan 21/2005		101			Dec 18/2007
28-00-01					28-22-03				
		101	1	Jan 21/2005		101			Jan 21/2005
			2	Jan 21/2005	A	101.1		1	Oct 09/2008
		102	1	Jan 21/2005	A			2	Oct 09/2008
			2	Jan 21/2005		102			Dec 18/2007
28-13-01					A	102.1		1	Oct 09/2008
		101		Jan 21/2005	A			2	Oct 09/2008
28-21-01					28-22-04				
		101	1	Jan 21/2005	O	101			Jan 21/2005

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

28-EFFECTIVE PAGES



CHAPTER 28
FUEL

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
					28-22-05				
O		101		Jan 21/2005			103		Dec 18/2007
					28-25-01				
O		101		Jan 21/2005			101		Jan 21/2005
O		102		Jan 21/2005			101.1		Dec 18/2007
					28-26-01				
O		101		Jan 21/2005			102		Jan 21/2005
O		102		Jan 21/2005					
					28-40-01				
O		101		Jan 21/2005					
					28-41-01				
O		101		Dec 18/2007					
O		102		Dec 18/2007					
O		103		Dec 18/2007					
					28-41-02				
O		101		Dec 18/2007					
A		101.1		Oct 09/2008					
		102		Dec 18/2007					
A		102.1		Oct 09/2008					
O		103		Dec 18/2007					
A		103.1		Oct 09/2008					
					28-41-03				
		101		Dec 18/2007					
		102		Dec 18/2007					

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

28-EFFECTIVE PAGES

Page 2
Oct 09/2008

D280N032S



CHAPTER 28
FUEL

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
<u>FUEL</u>						
FUEL SYSTEM	28-00-00		101		Jan 21/2005	001-003 005 115-199
			101.1		Dec 18/2007	115
			102		Jan 21/2005	004 006-008
			103		Jan 21/2005	009-099
WING FUEL SYSTEM	28-00-01		101	1	Jan 21/2005	001-008 115-199
				2	Jan 21/2005	001-008 115-199
			102	1	Jan 21/2005	009-099
				2	Jan 21/2005	009-099
<u>FUEL VENT SYSTEM</u>						
FUEL TANK VENT SYSTEM	28-13-01		101		Jan 21/2005	ALL
<u>PRESSURE FUELING SYSTEM</u>						
PRESSURE FUELING	28-21-01		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	115-199
				2	Jan 21/2005	115-199
PRESSURE FUELING OVERFILL CONTROL	28-21-02		101		Jan 21/2005	ALL
<u>ENGINE FUEL FEED SYSTEM</u>						
ENGINE FUEL VALVE CONTROL	28-22-01		101		Jan 21/2005	001 115-199
			102		Jan 21/2005	002-008
			103		Jan 21/2005	009-099

CHAPTER 28
FUEL

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
ENGINE FUEL FEED SYSTEM - LEFT TANK	28-22-02		101		Dec 18/2007	ALL
ENGINE FUEL FEED SYSTEM - CENTER TANK	28-22-03		101		Jan 21/2005	001-002 115-199
			101.1	1	Oct 09/2008	001-002 115
				2	Oct 09/2008	001-002 115
			102		Dec 18/2007	003-099
			102.1	1	Oct 09/2008	003-011
				2	Oct 09/2008	003-011
ENGINE FUEL FEED SYSTEM - RIGHT TANK	28-22-04		101		Jan 21/2005	ALL
FUEL CROSSFEED VALVES	28-22-05		101		Jan 21/2005	009-099
<u>APU FUEL FEED SYSTEM</u>						
APU FUEL FEED SYSTEM	28-25-01		101		Jan 21/2005	001 115-199
			102		Jan 21/2005	002-099
<u>DEFUELING</u>						
DEFUELING	28-26-01		101		Jan 21/2005	001 115-199
			102		Jan 21/2005	002-099
<u>INDICATING</u>						
FUEL - EICAS WARNING	28-40-01		101		Jan 21/2005	ALL
<u>FUEL QUANTITY INDICATING SYSTEM (FQIS)</u>						
LEFT TANK FUEL QUANTITY INDICATION	28-41-01		101		Dec 18/2007	001-007
			102		Dec 18/2007	008-099
			103		Dec 18/2007	115-199
CENTER TANK FUEL QUANTITY INDICATION	28-41-02		101		Dec 18/2007	001-007
			101.1		Oct 09/2008	001-007



CHAPTER 28
FUEL

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
CENTER TANK FUEL QUANTITY INDICATION (cont.)	28-41-02		102		Dec 18/2007	008-099
			102.1		Oct 09/2008	008-011
			103		Dec 18/2007	115-199
			103.1		Oct 09/2008	115
RIGHT TANK FUEL QUANTITY INDICATION	28-41-03		101		Dec 18/2007	001-007
			102		Dec 18/2007	008-099
			103		Dec 18/2007	115-199
FUEL QUANTITY PROCESSOR INTERFACE	28-41-04		101		Jan 21/2005	001-003 005 007-099 115-199
			101.1		Dec 18/2007	115
			102		Jan 21/2005	004 006
<u>FUEL TEMPERATURE INDICATING SYSTEM</u>						
FUEL TEMPERATURE INDICATION	28-43-01		101		Jan 21/2005	ALL

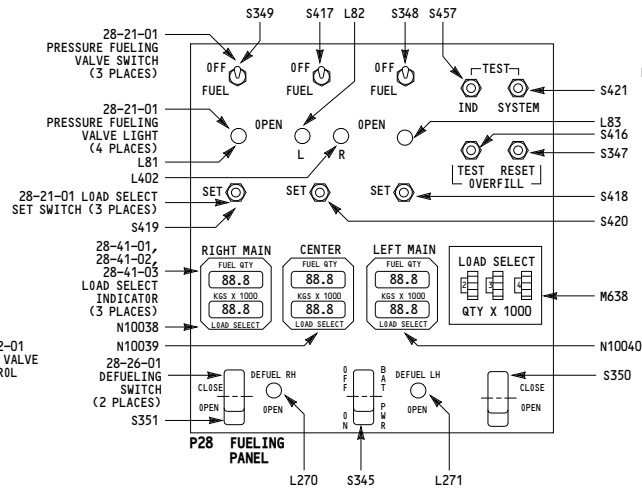
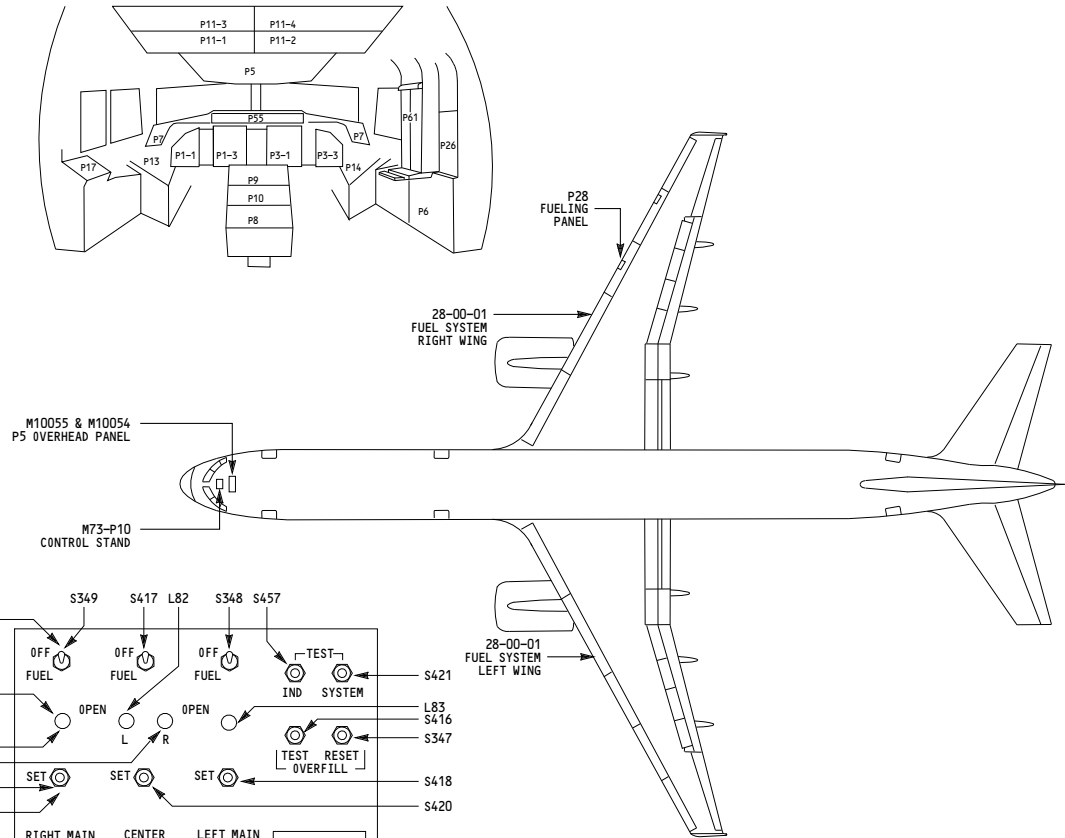
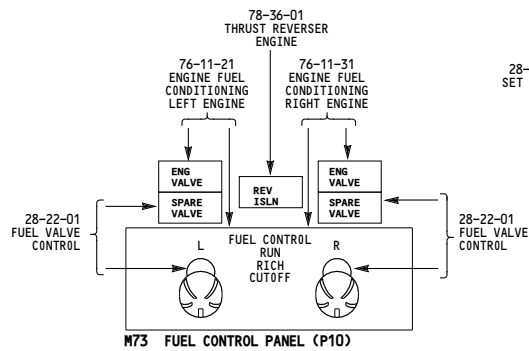
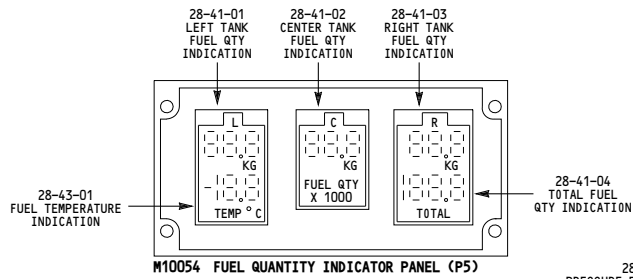
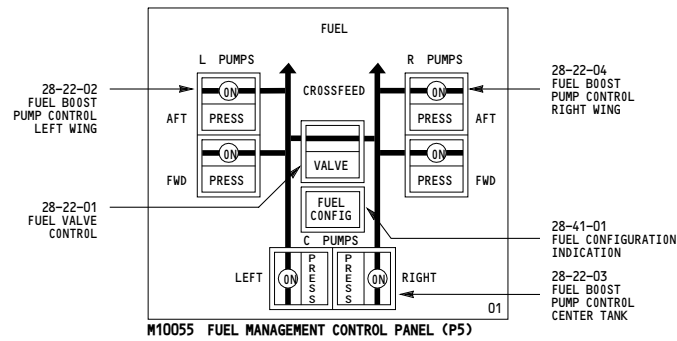
CHAPTER 28
FUEL

CH-SC-SU	Title
28-25-01	APU FUEL FEED SYSTEM
28-41-02	CENTER TANK FUEL QUANTITY INDICATION
28-26-01	DEFUELING
28-22-03	ENGINE FUEL FEED SYSTEM - CENTER TANK
28-22-02	ENGINE FUEL FEED SYSTEM - LEFT TANK
28-22-04	ENGINE FUEL FEED SYSTEM - RIGHT TANK
28-22-01	ENGINE FUEL VALVE CONTROL
28-40-01	FUEL - EICAS WARNING
28-22-05	FUEL CROSSFEED VALVES
28-41-04	FUEL QUANTITY PROCESSOR INTERFACE
28-00-00	FUEL SYSTEM
28-13-01	FUEL TANK VENT SYSTEM
28-43-01	FUEL TEMPERATURE INDICATION
28-41-01	LEFT TANK FUEL QUANTITY INDICATION
28-21-01	PRESSURE FUELING
28-21-02	PRESSURE FUELING OVERFILL CONTROL
28-41-03	RIGHT TANK FUEL QUANTITY INDICATION
28-00-01	WING FUEL SYSTEM

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

28-ALPHABETICAL INDEX

-A
5013



001-003, 005, 115-199

FUEL SYSTEM

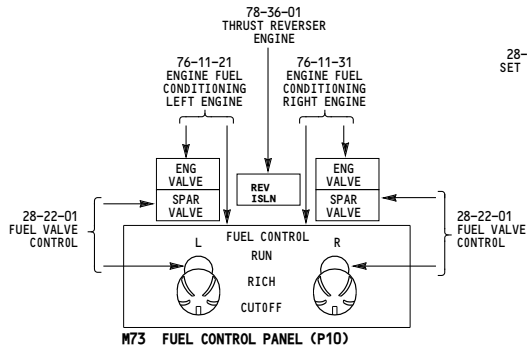
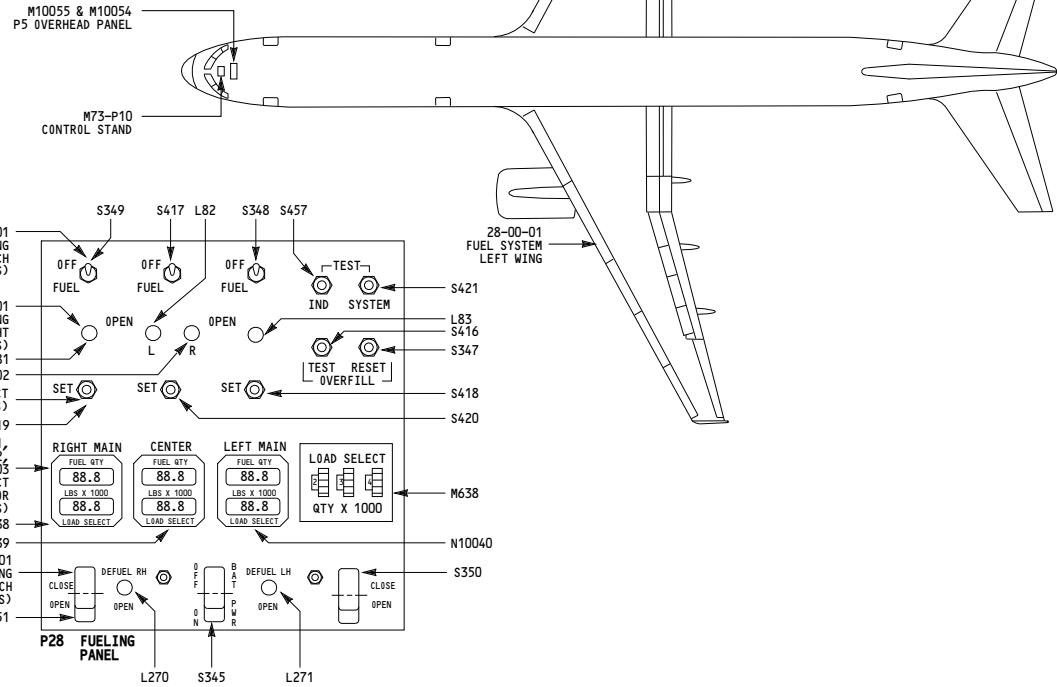
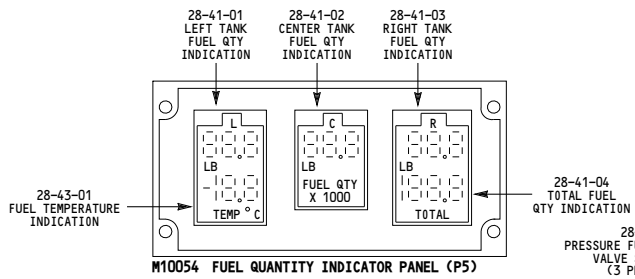
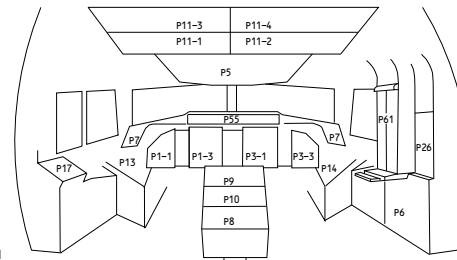
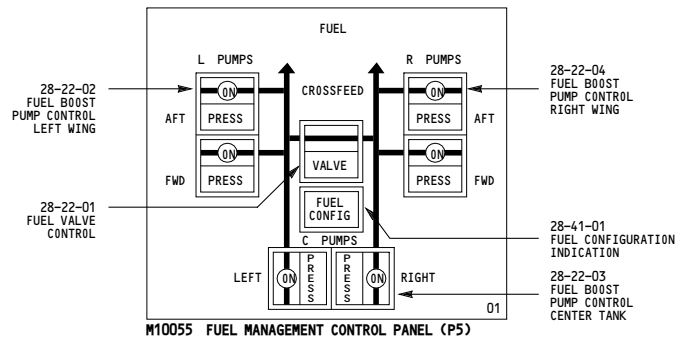
D280N032S

28-00-00

Page 101

Jan 21/2005

-A
5012



115	FUEL SYSTEM
	D280N032S

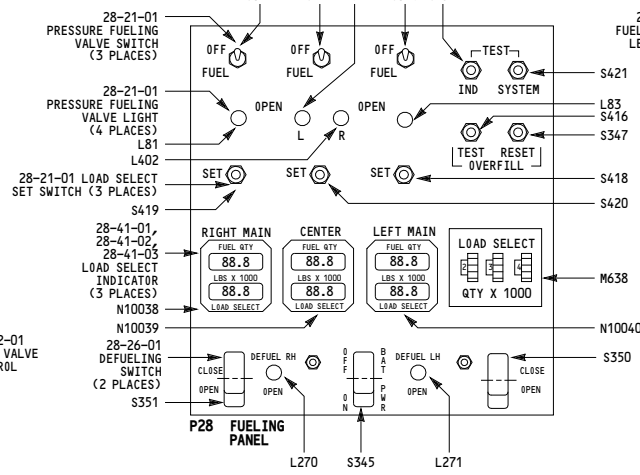
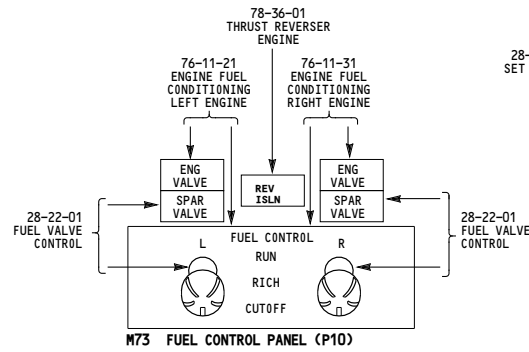
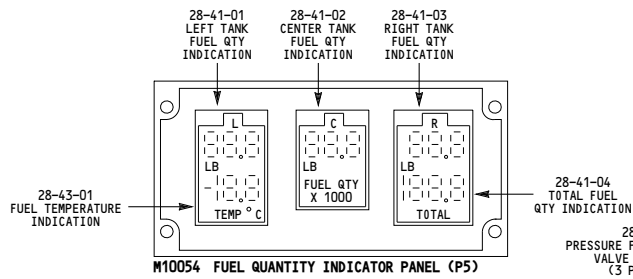
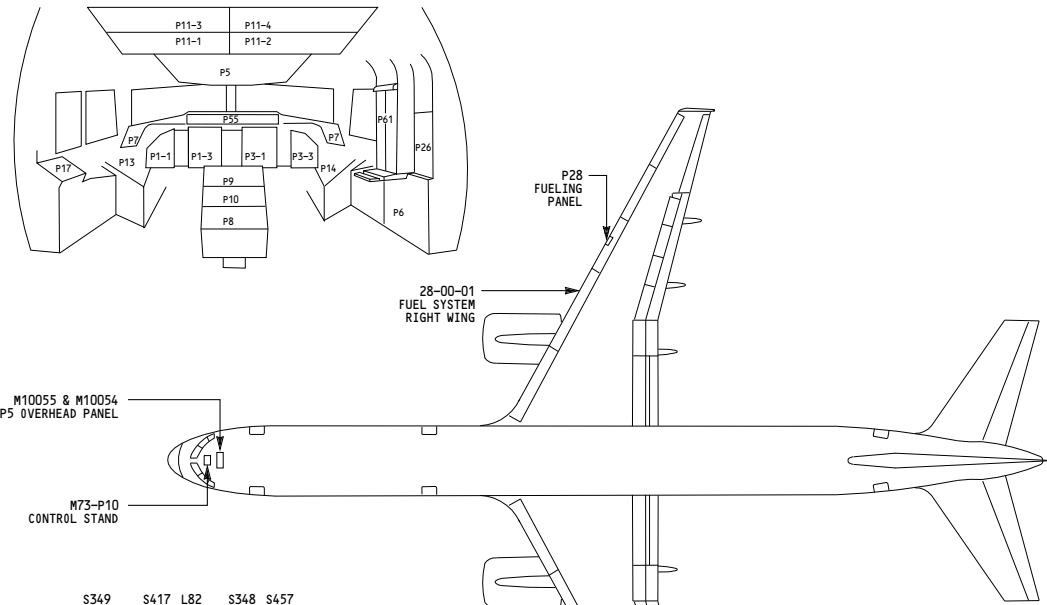
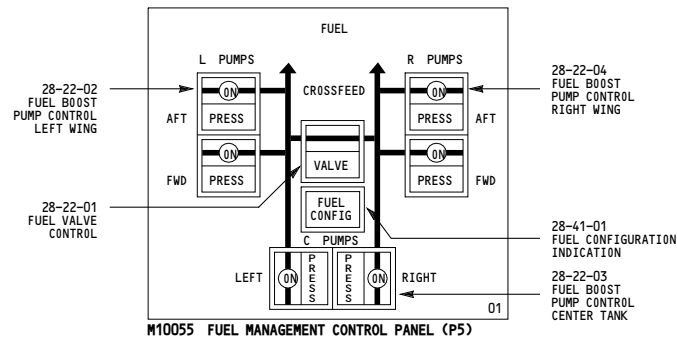
Incorporates
31-0173

28-00-00

Page 101.1

Dec 18/2007

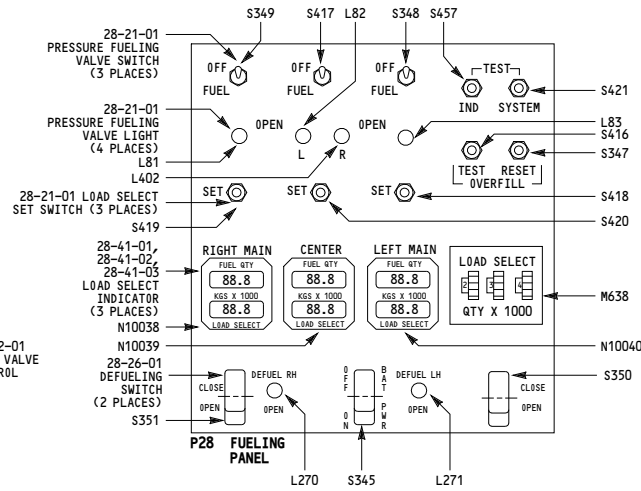
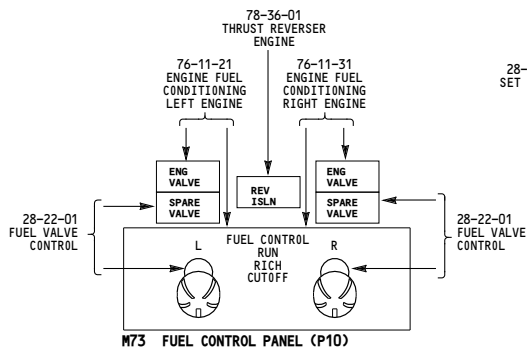
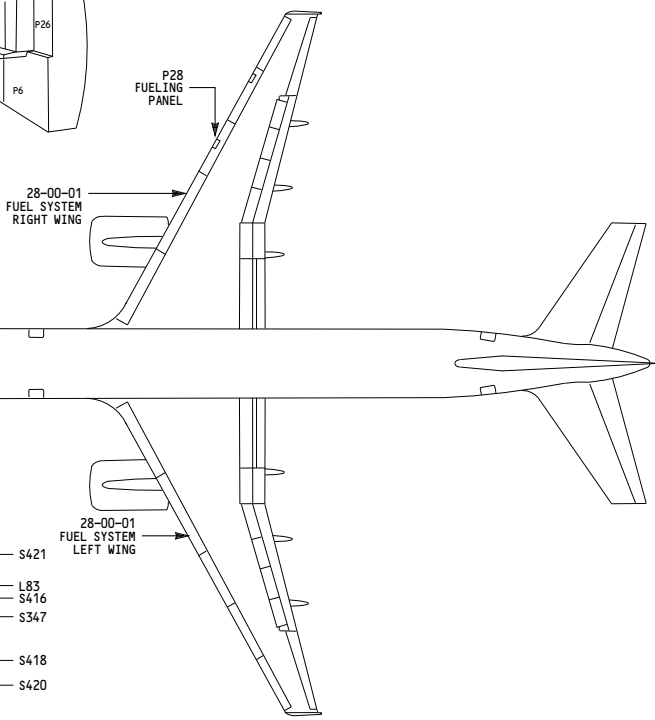
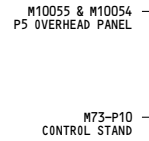
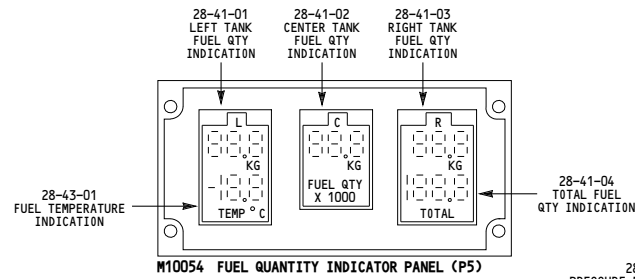
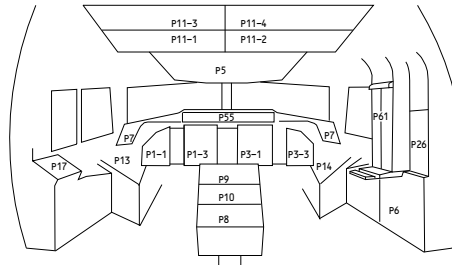
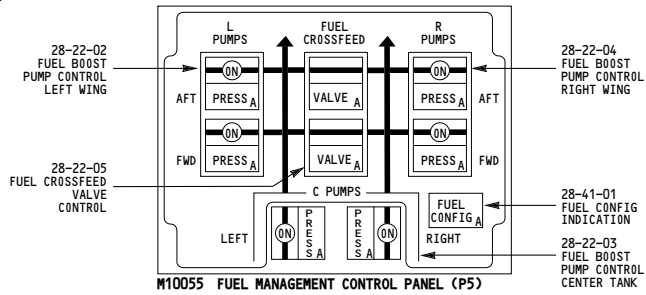
-A-
5012



004, 006-008	FUEL SYSTEM
	D280N032S

28-00-00

5016



009-099	FUEL SYSTEM
	D280N032S

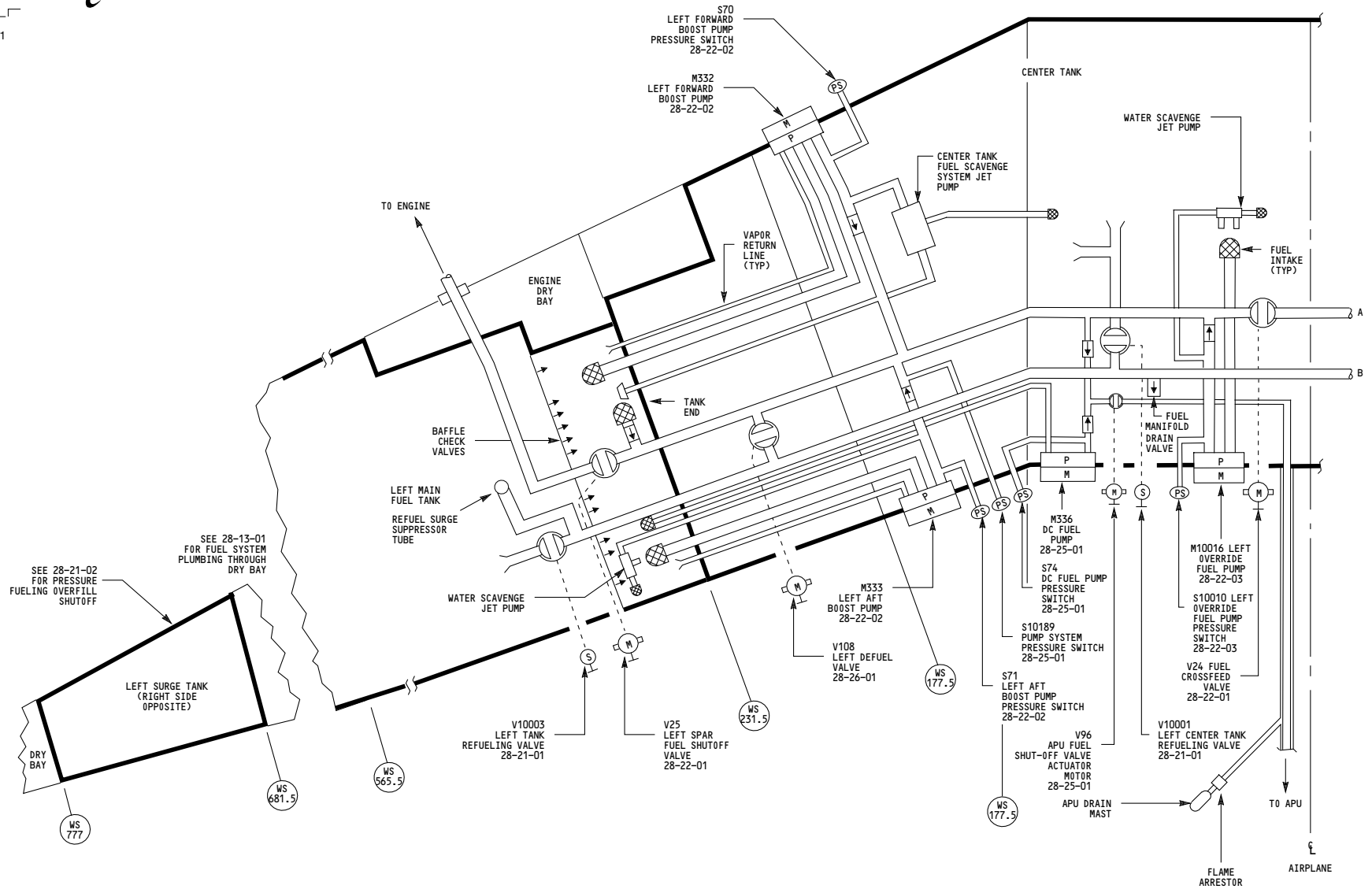
28-00-00

Page 103

Jan 21/2005

THIS PAGE INTENTIONALLY LEFT BLANK

5311

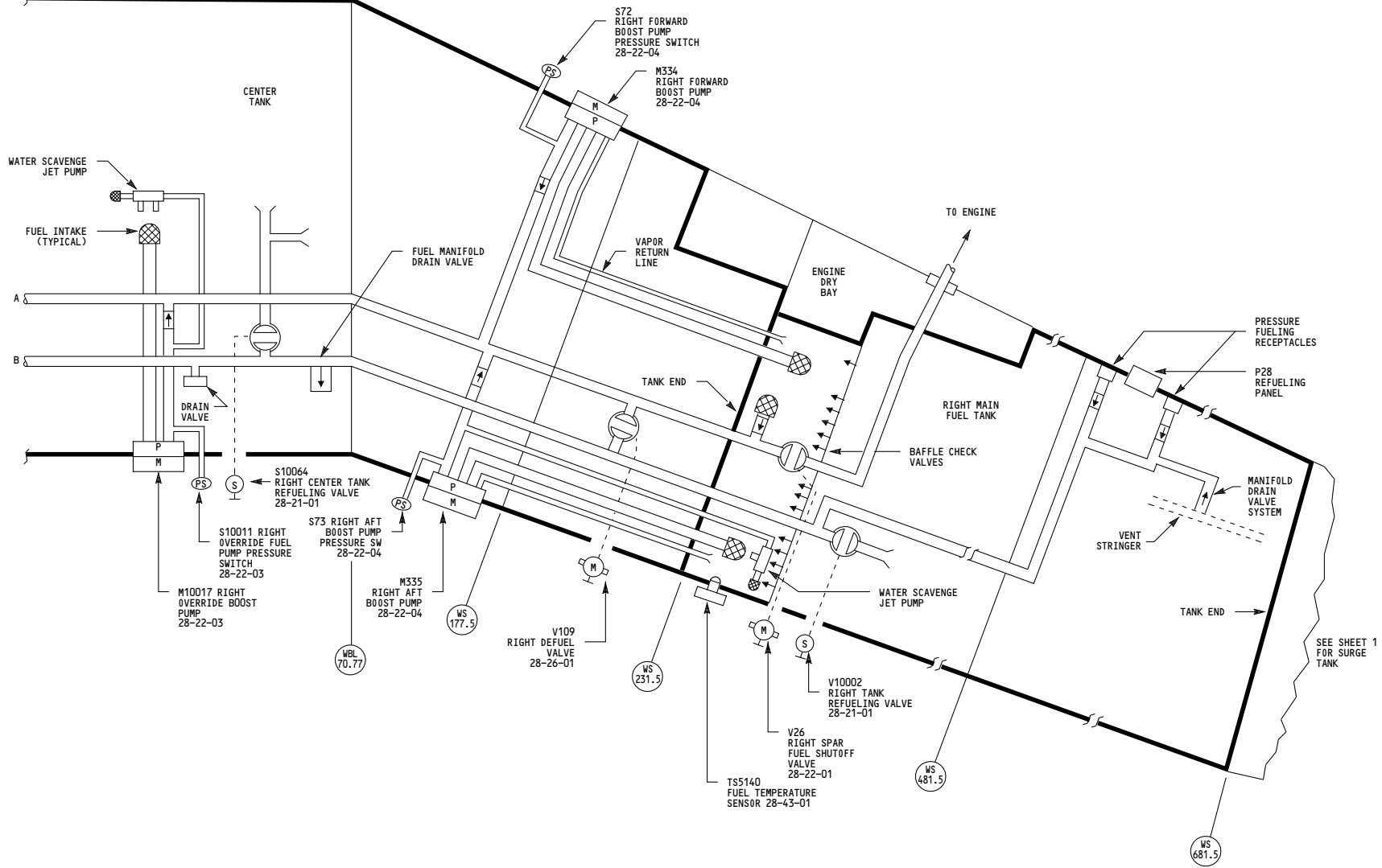


001-008, 115-199	<p align="center">WING FUEL SYSTEM</p> <p align="center">D280N032S</p>
------------------	---

28-00-01

Page 101
Sheet 1
Jan 21/2005

5300

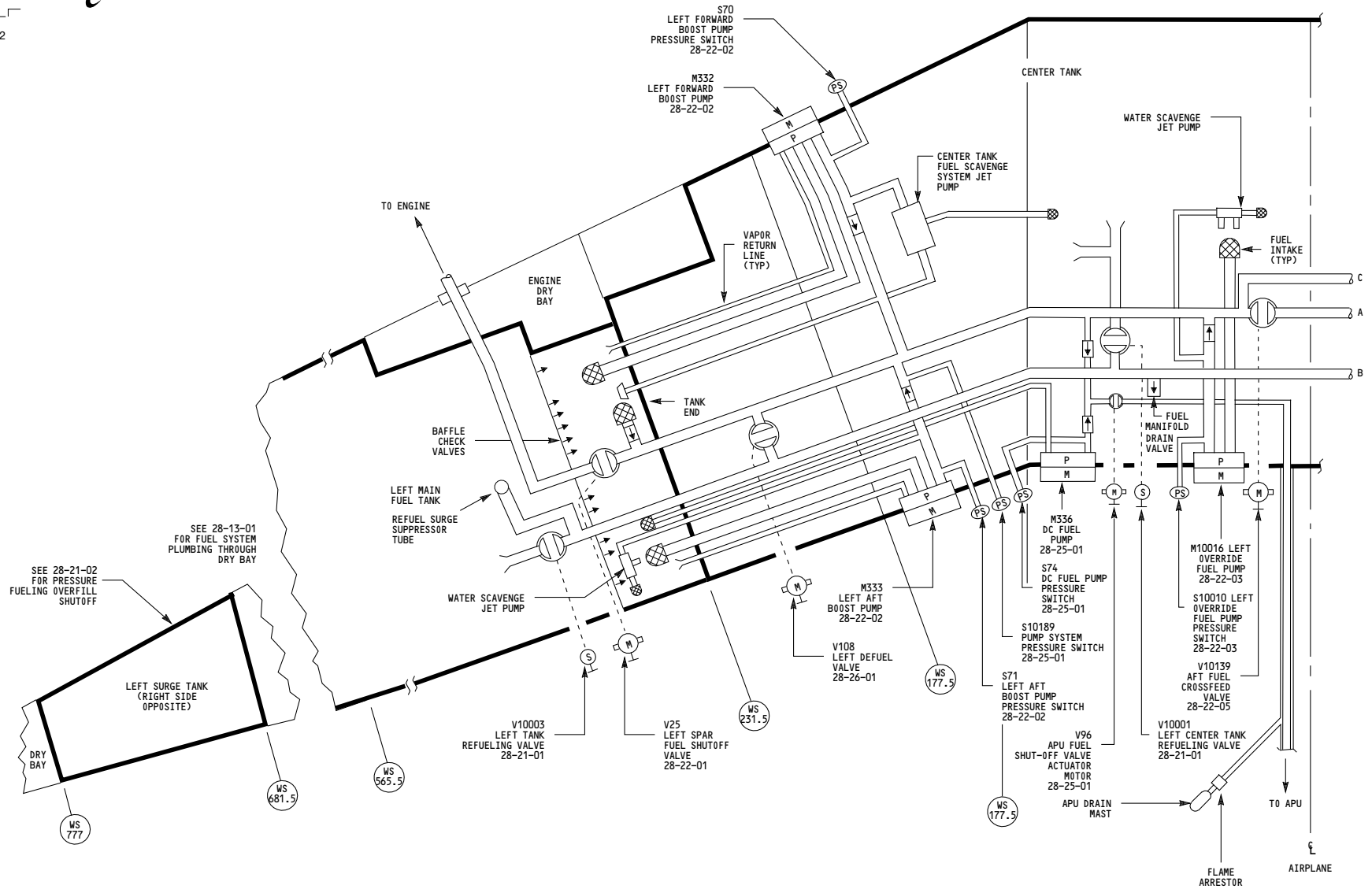


001-008, 115-199	<p align="center">WING FUEL SYSTEM</p> <p align="center">D280N032S</p>
------------------	---

28-00-01

Page 101
Sheet 2
Jan 21/2005

5312

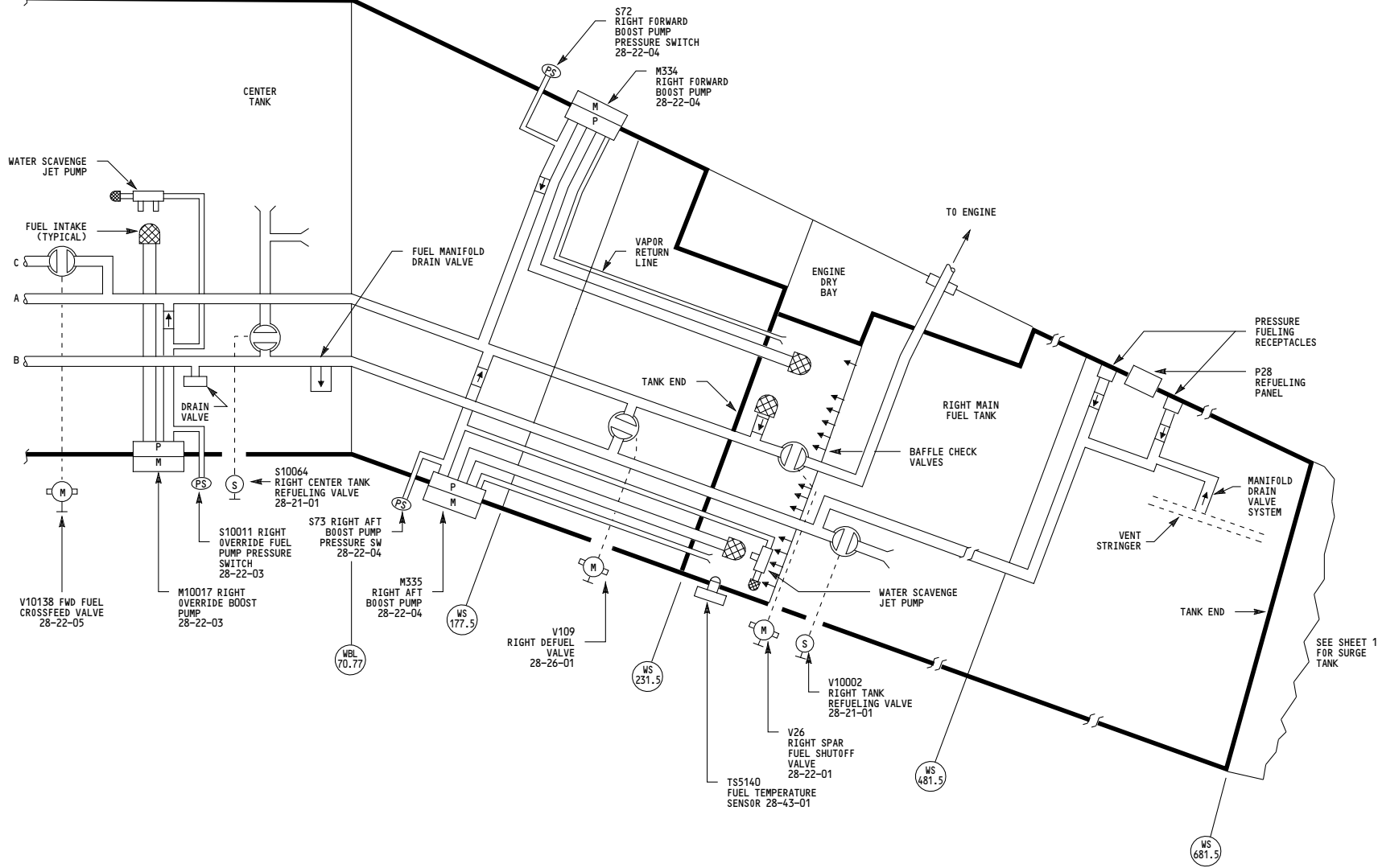


009-099	<p align="center">WING FUEL SYSTEM</p> <p align="center">D280N032S</p>
---------	---

28-00-01

Page 102
Sheet 1
Jan 21/2005

5301



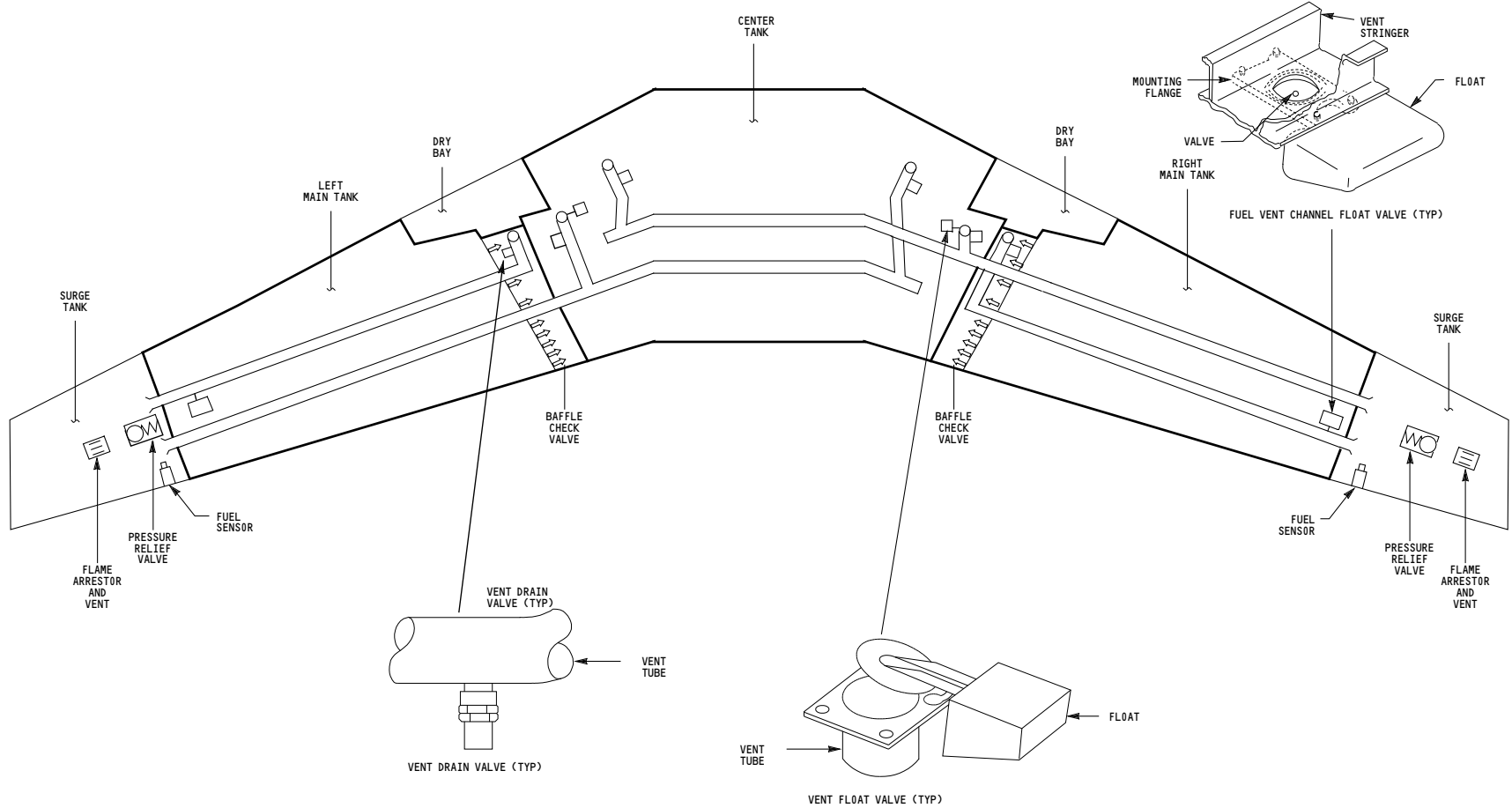
SEE SHEET 1 FOR SURGE TANK

009-099	<p align="center">WING FUEL SYSTEM</p> <p align="center">D280N032S</p>
---------	---

28-00-01

Page 102
Sheet 2
Jan 21/2005

5300



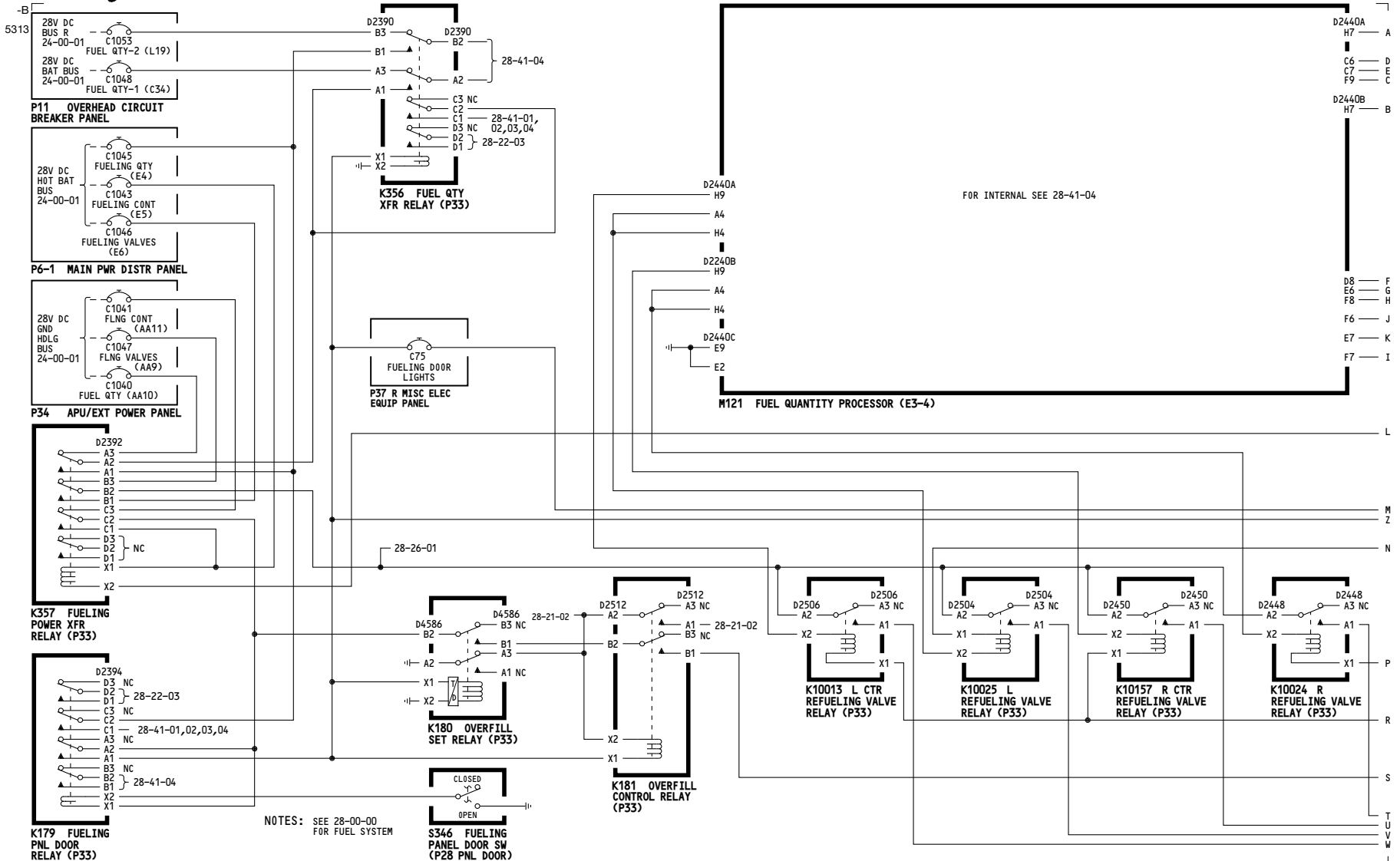
ALL	<p>FUEL TANK VENT SYSTEM</p> <p>D280N032S</p>
-----	--

28-13-01

Page 101

Jan 21/2005

THIS PAGE INTENTIONALLY LEFT BLANK

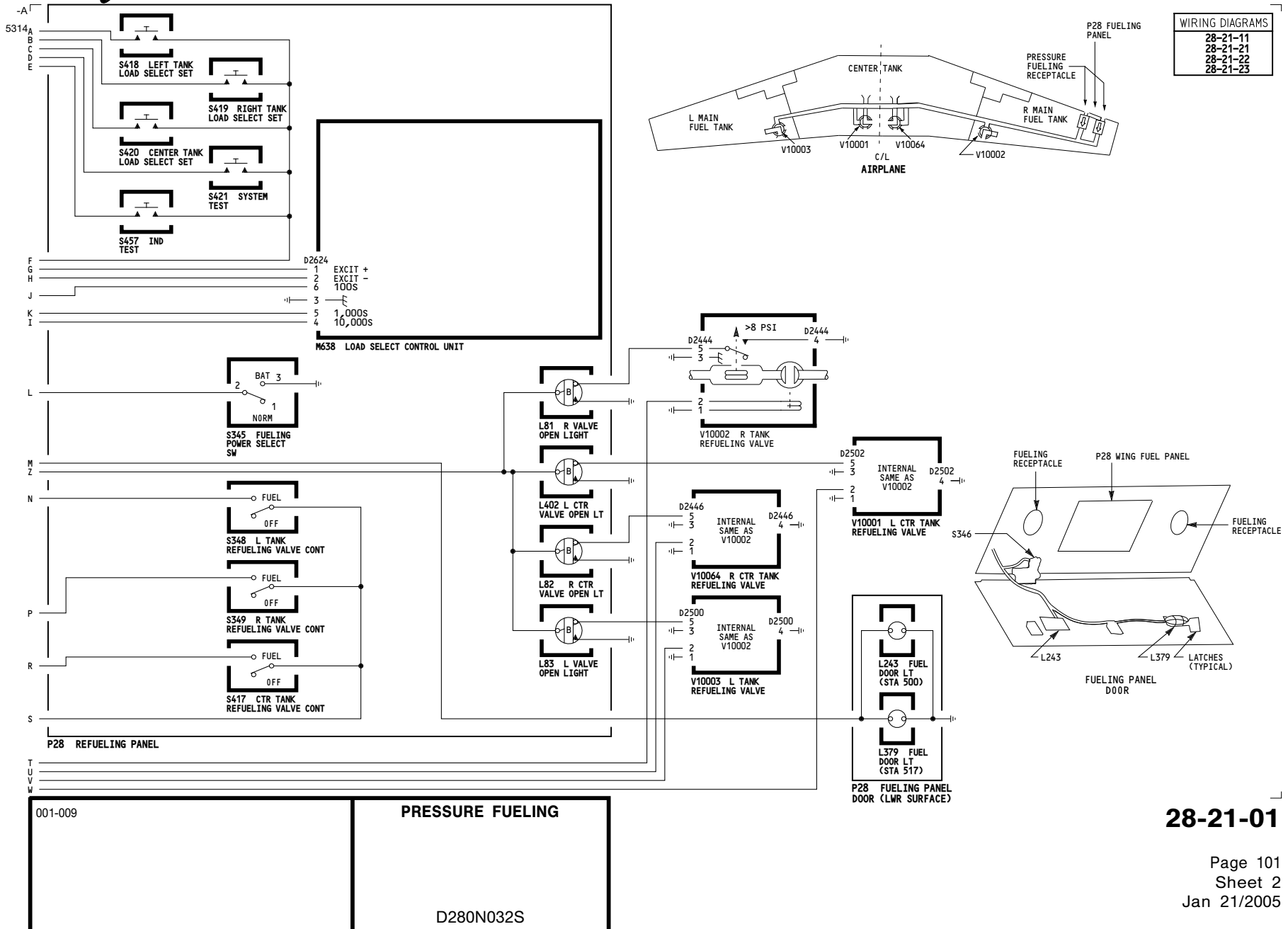


001-009

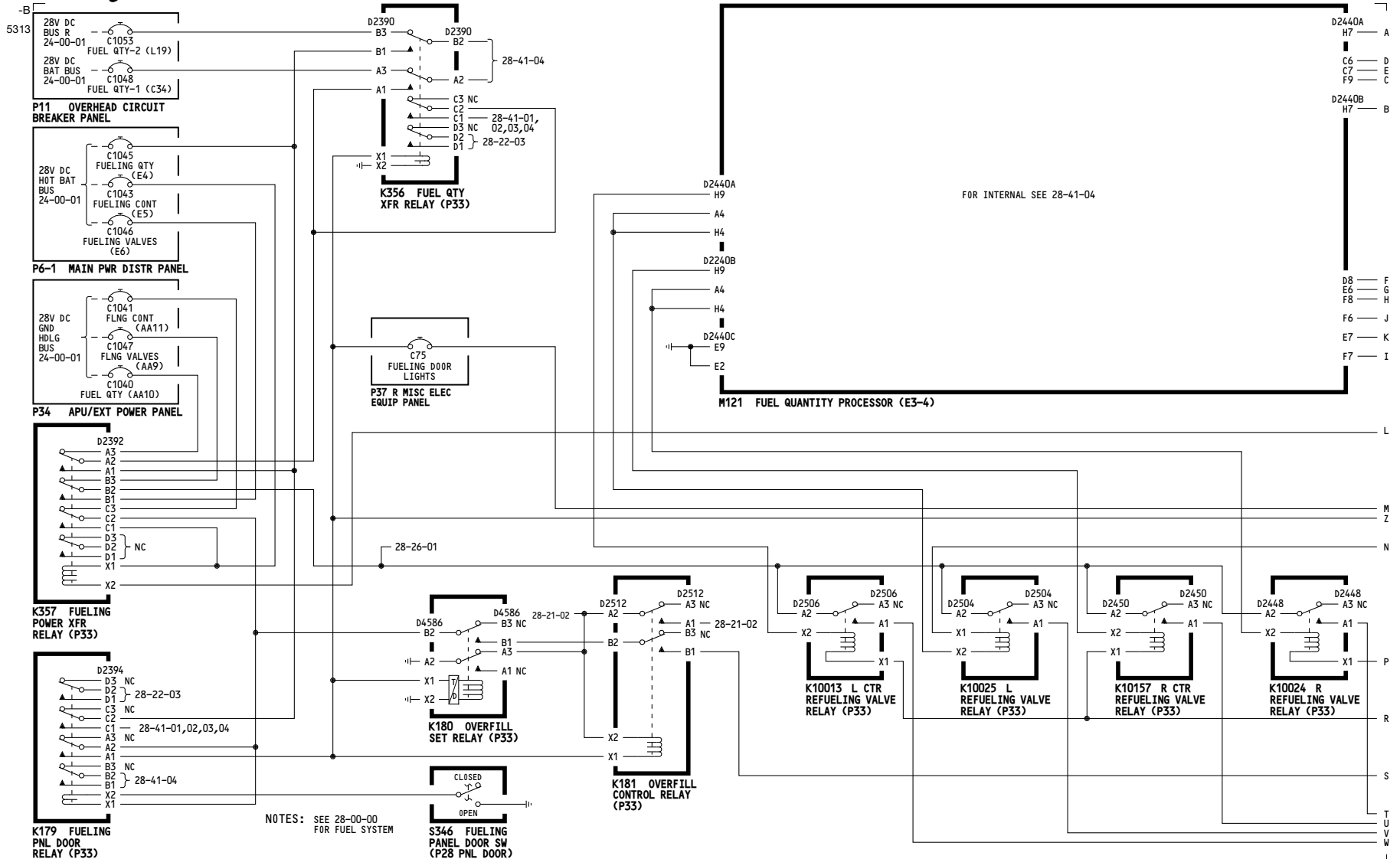
PRESSURE FUELING

D280N032S

28-21-01



28-21-01



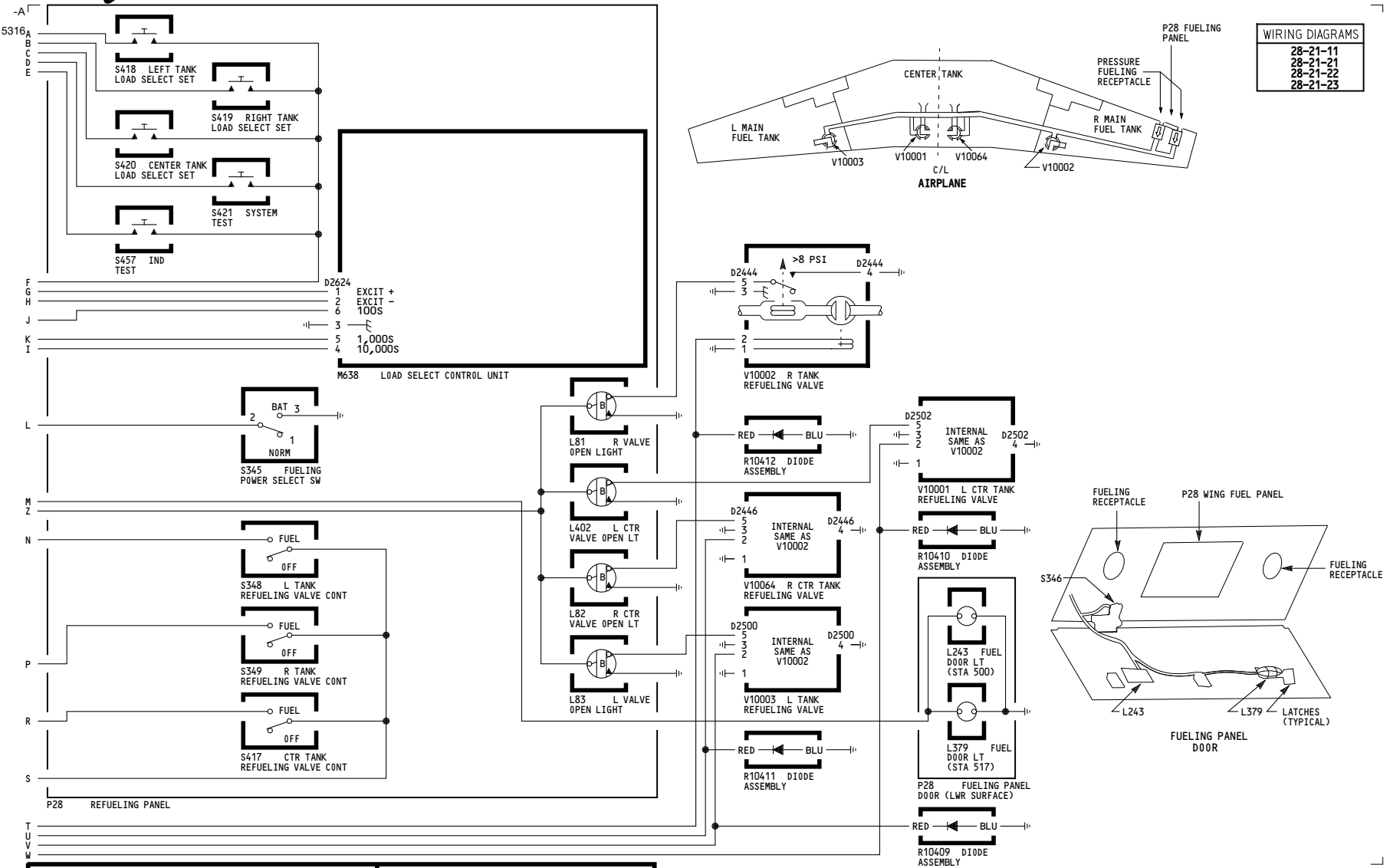
010-099

PRESSURE FUELING

D280N032S

28-21-01

WIRING DIAGRAMS	
28-21-11	
28-21-21	
28-21-22	
28-21-23	

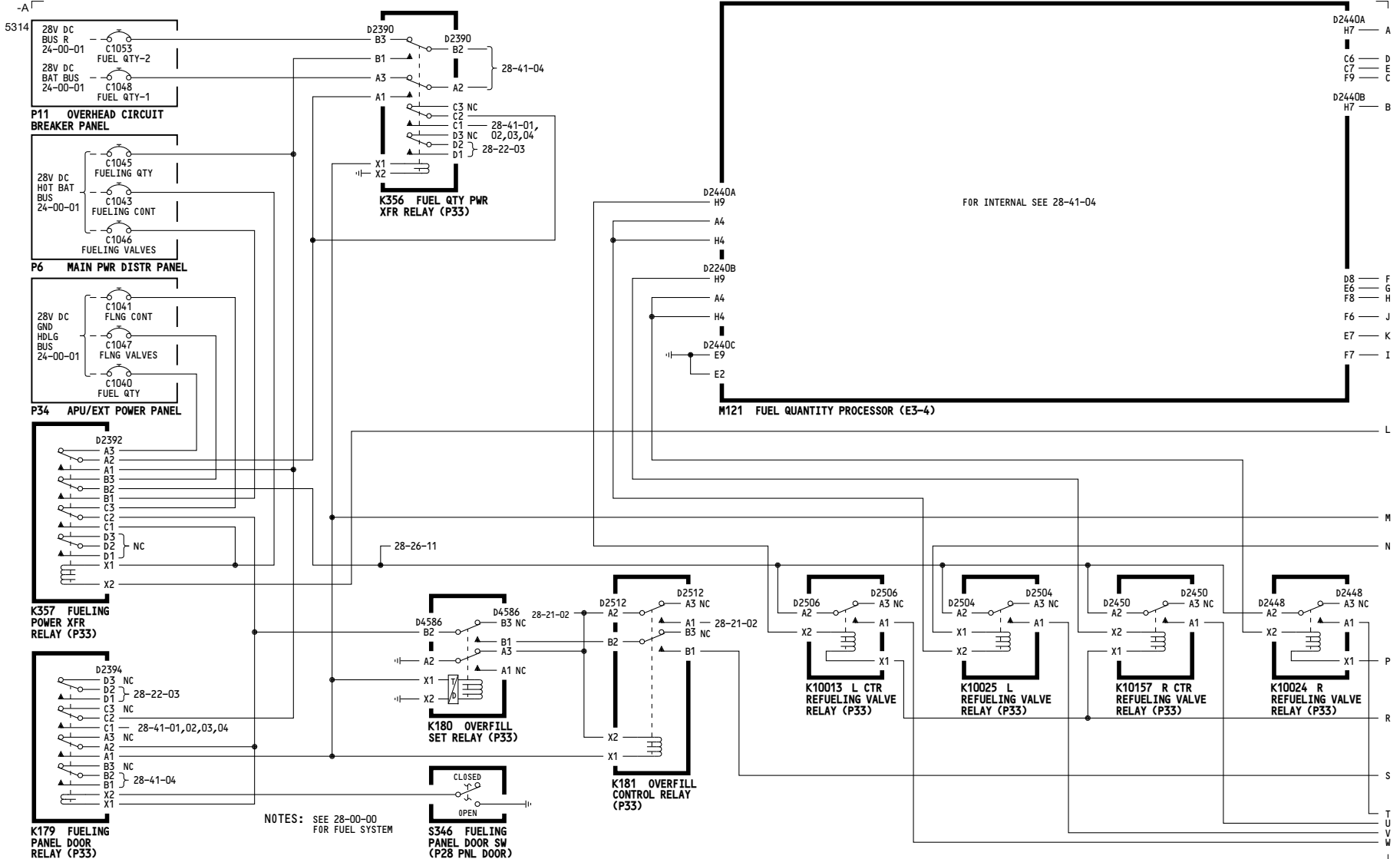


010-099

PRESSURE FUELING

D280N032S

28-21-01



NOTES: SEE 28-00-00 FOR FUEL SYSTEM

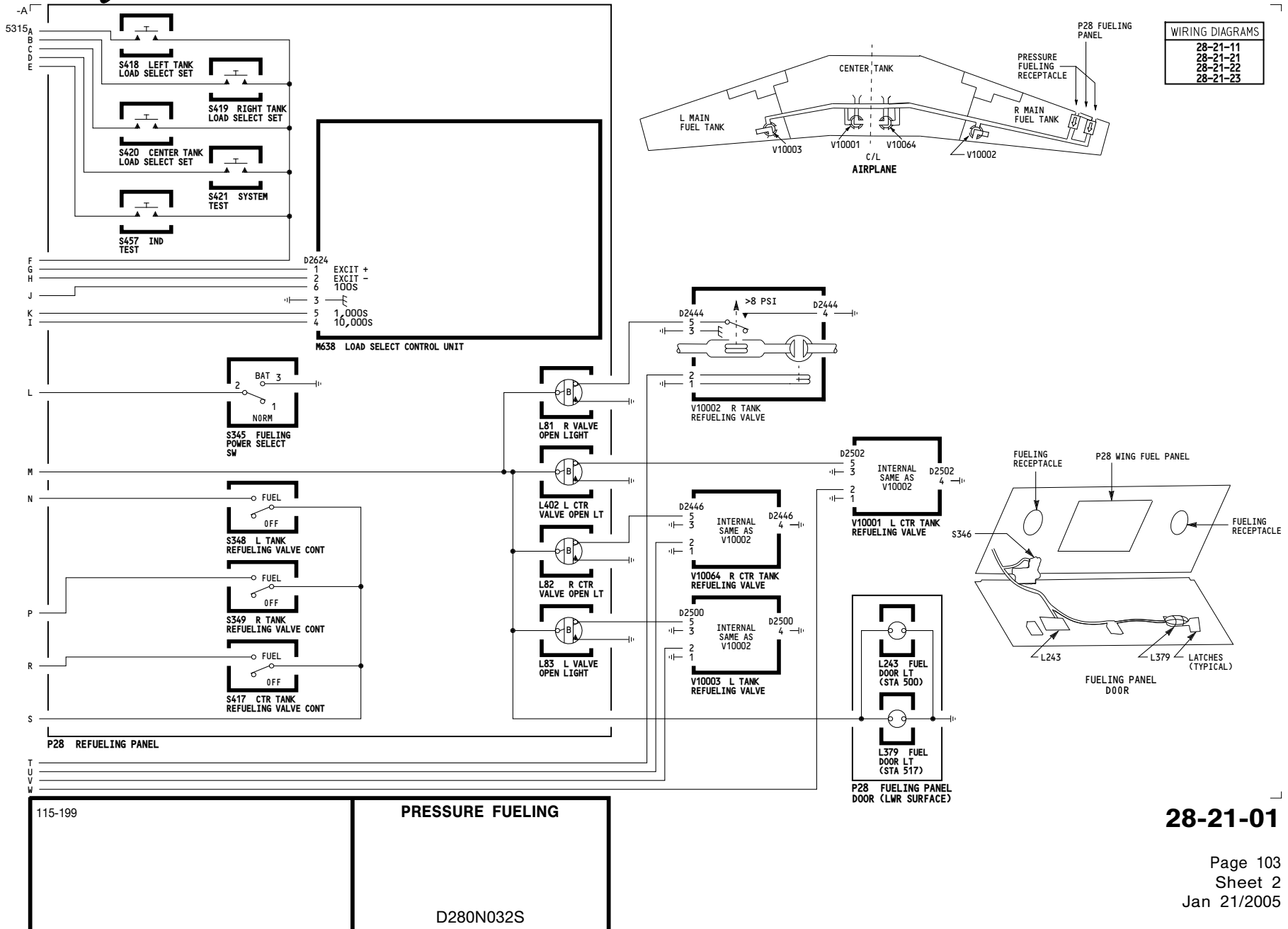
S346 FUELING PANEL DOOR SW (P28 PNL DOOR)

115-199

PRESSURE FUELING

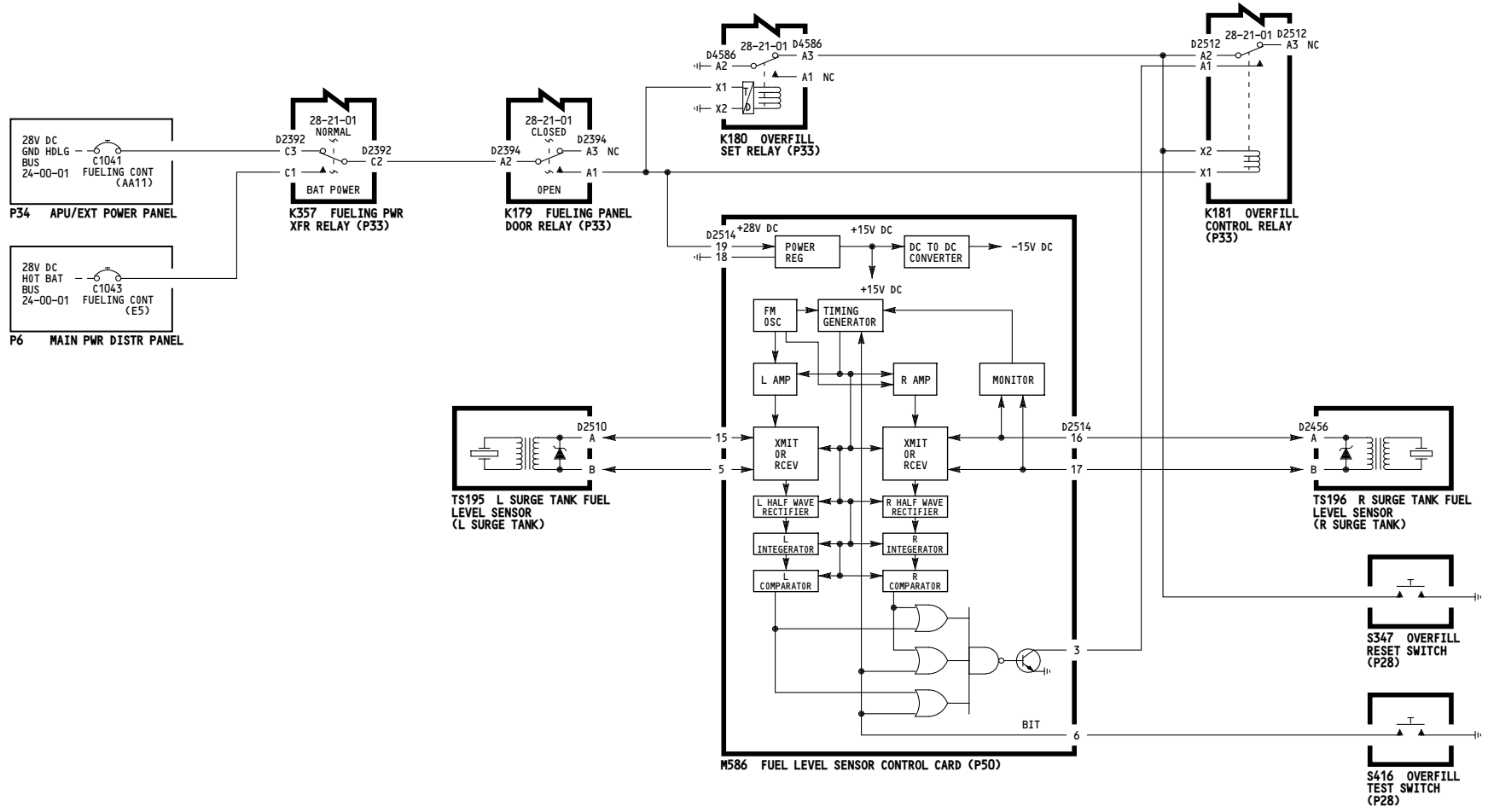
D280N032S

28-21-01



5300

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

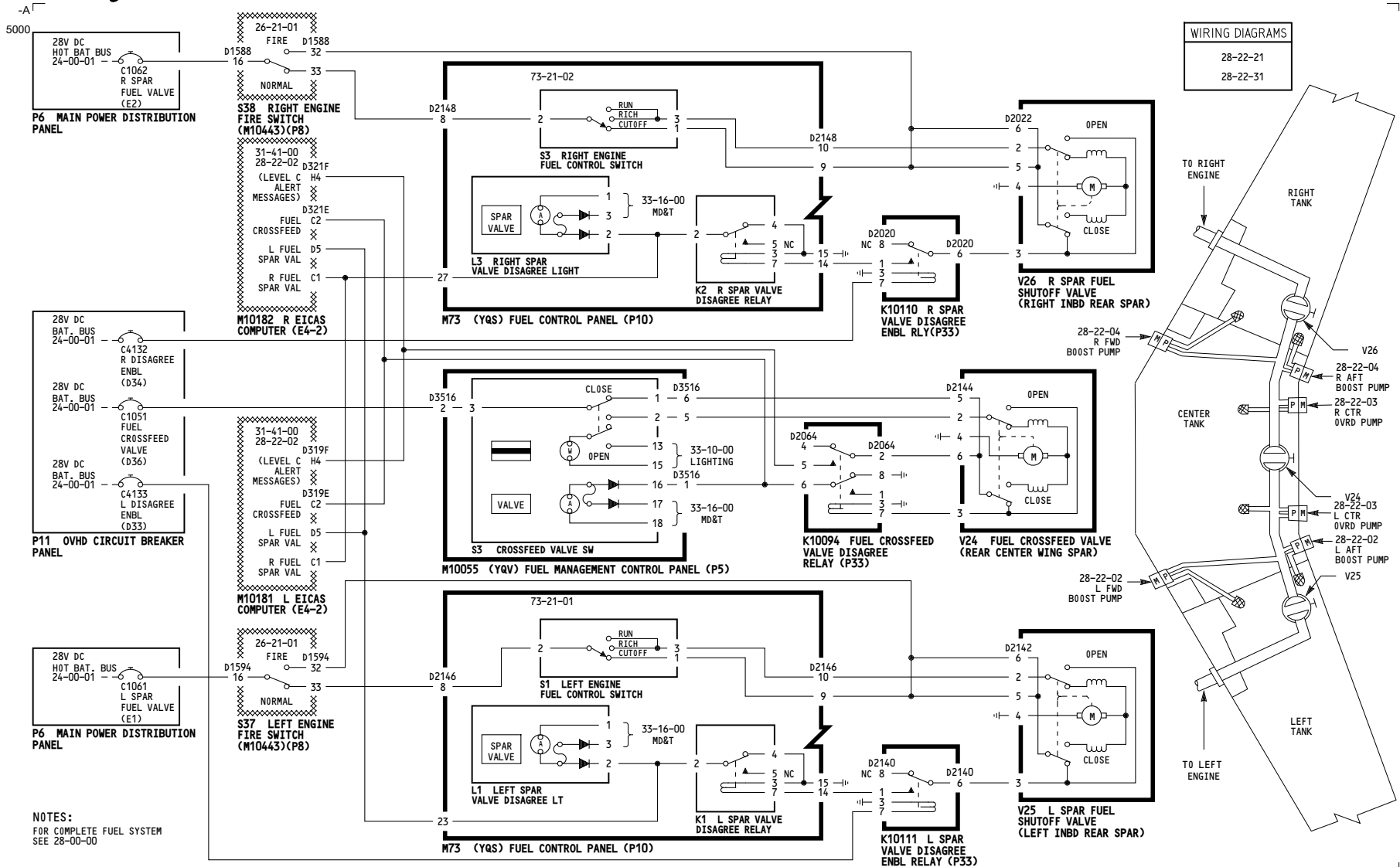


ALL	<p>PRESSURE FUELING OVERFILL CONTROL</p> <p>D280N032S</p>
-----	--

28-21-02

Page 101

Jan 21/2005



WIRING DIAGRAMS
28-22-21
28-22-31

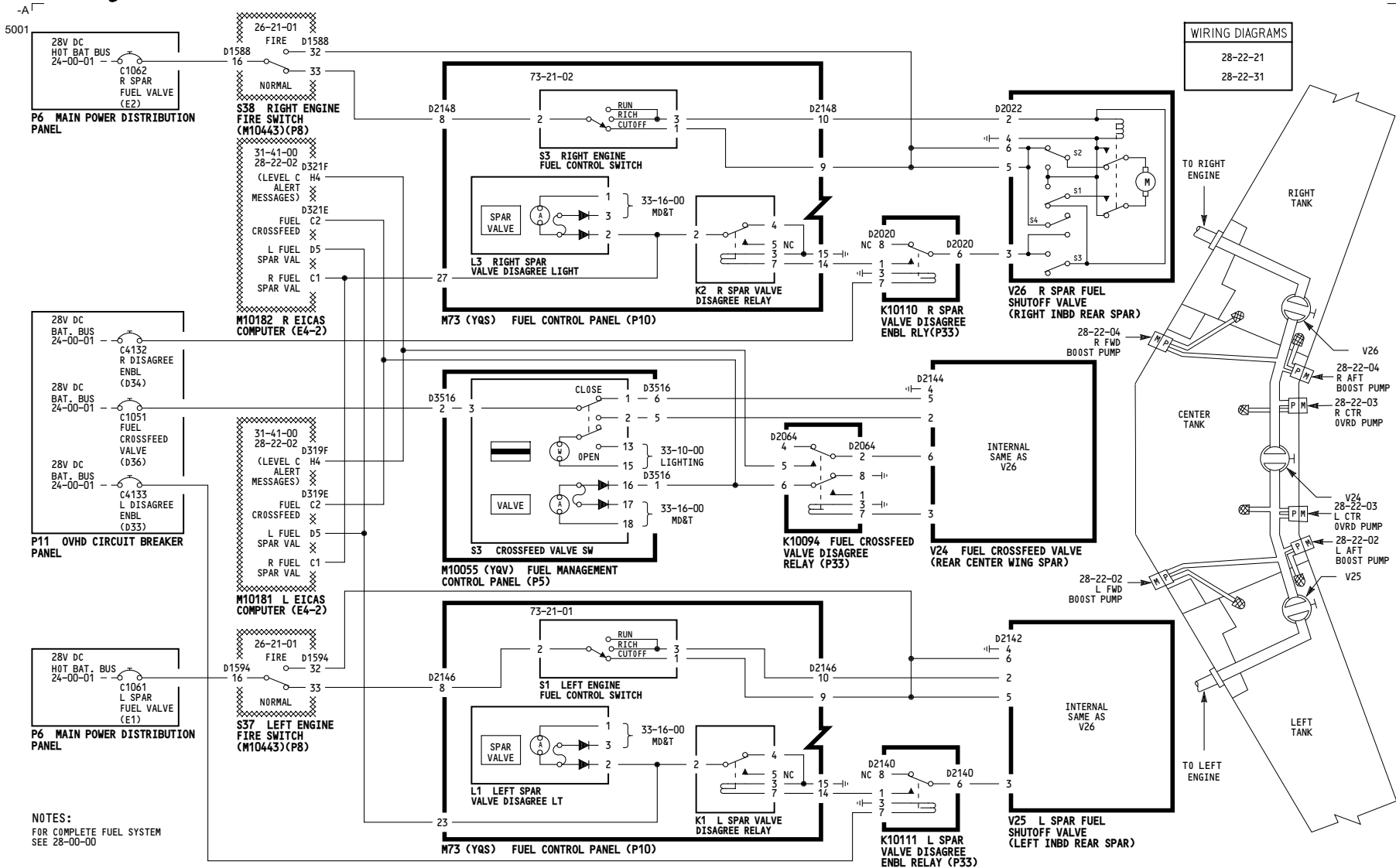
NOTES:
FOR COMPLETE FUEL SYSTEM
SEE 28-00-00

001, 115-199

ENGINE FUEL VALVE CONTROL

D280N032S

28-22-01



WIRING DIAGRAMS
28-22-21
28-22-31

NOTES:
FOR COMPLETE FUEL SYSTEM
SEE 28-00-00

002-008

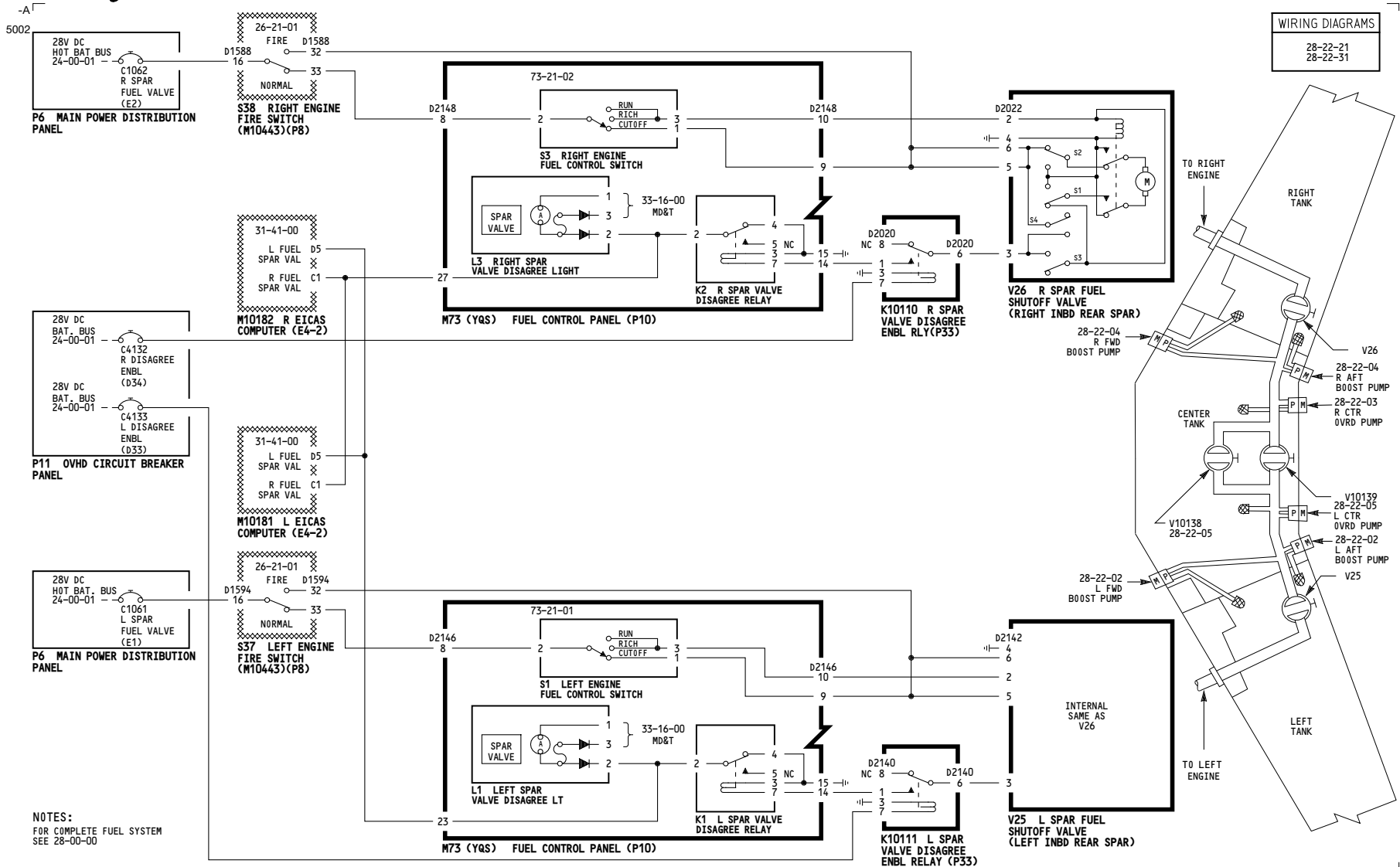
ENGINE FUEL VALVE CONTROL

D280N032S

28-22-01

Page 102

Jan 21/2005



WIRING DIAGRAMS
28-22-21
28-22-31

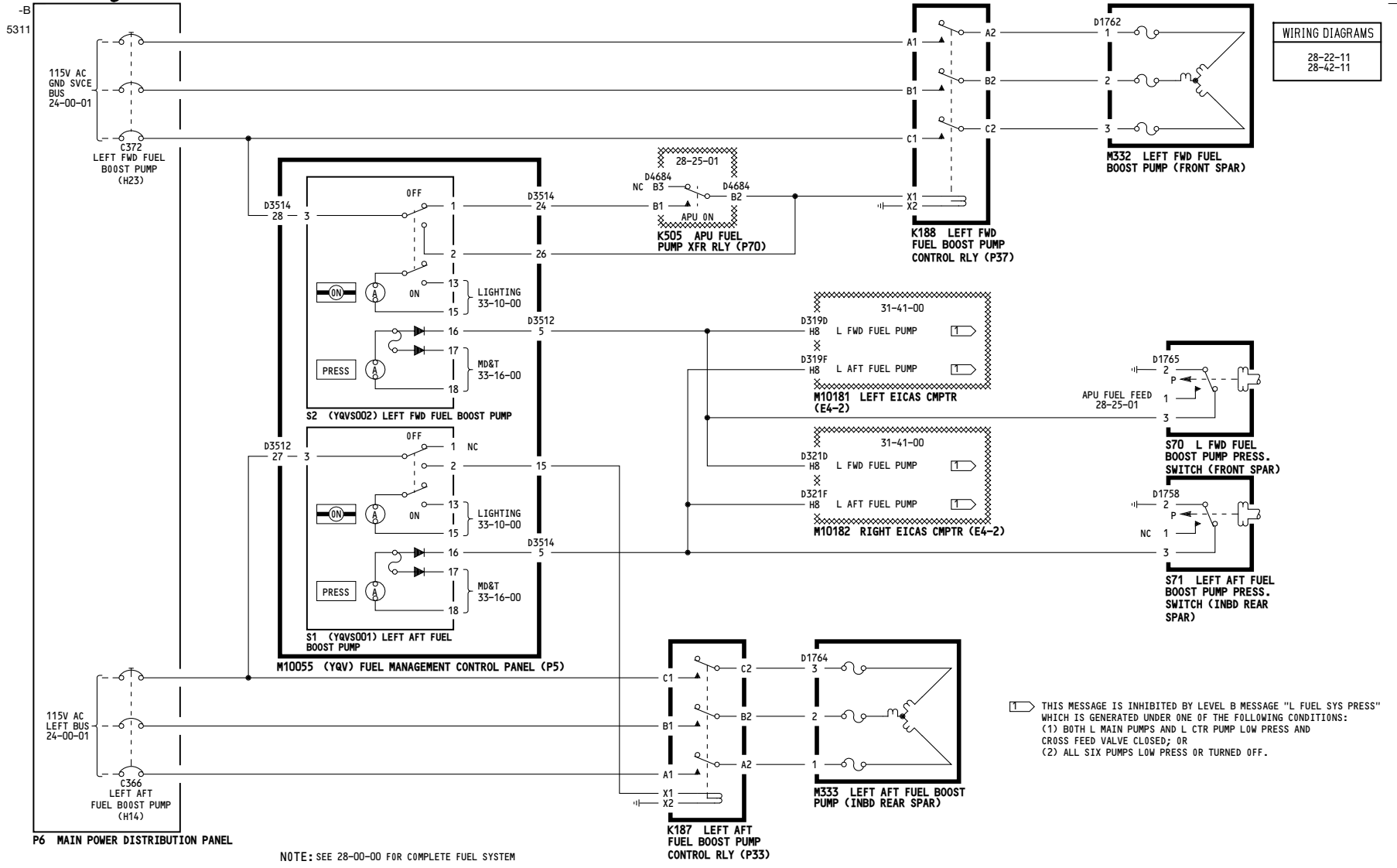
NOTES:
FOR COMPLETE FUEL SYSTEM
SEE 28-00-00

009-099

ENGINE FUEL VALVE CONTROL

D280N032S

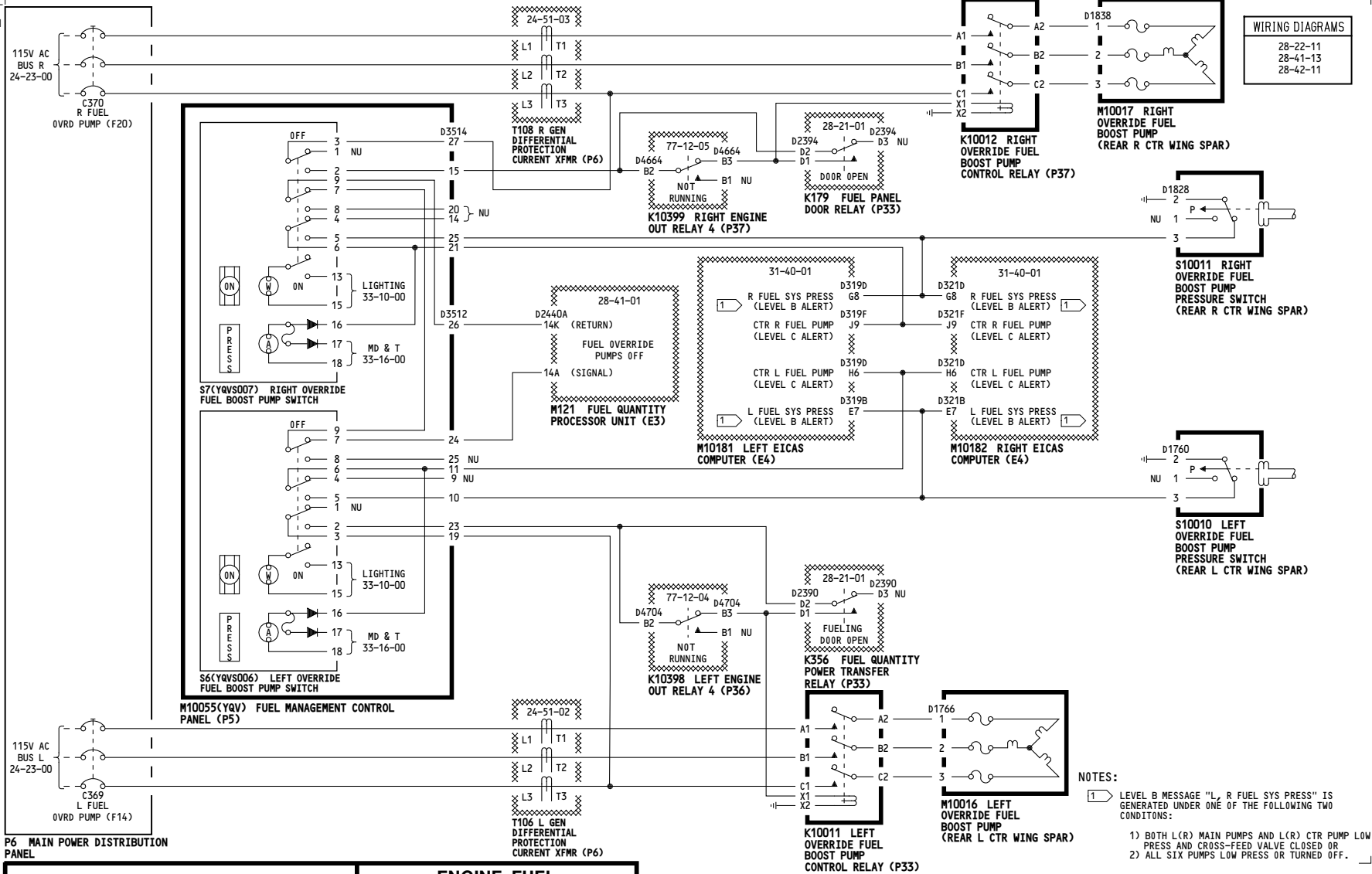
28-22-01



ALL	ENGINE FUEL FEED SYSTEM - LEFT TANK
	D280N032S

28-22-02

5311



WIRING DIAGRAMS
28-22-11
28-41-13
28-42-11

P6 MAIN POWER DISTRIBUTION PANEL

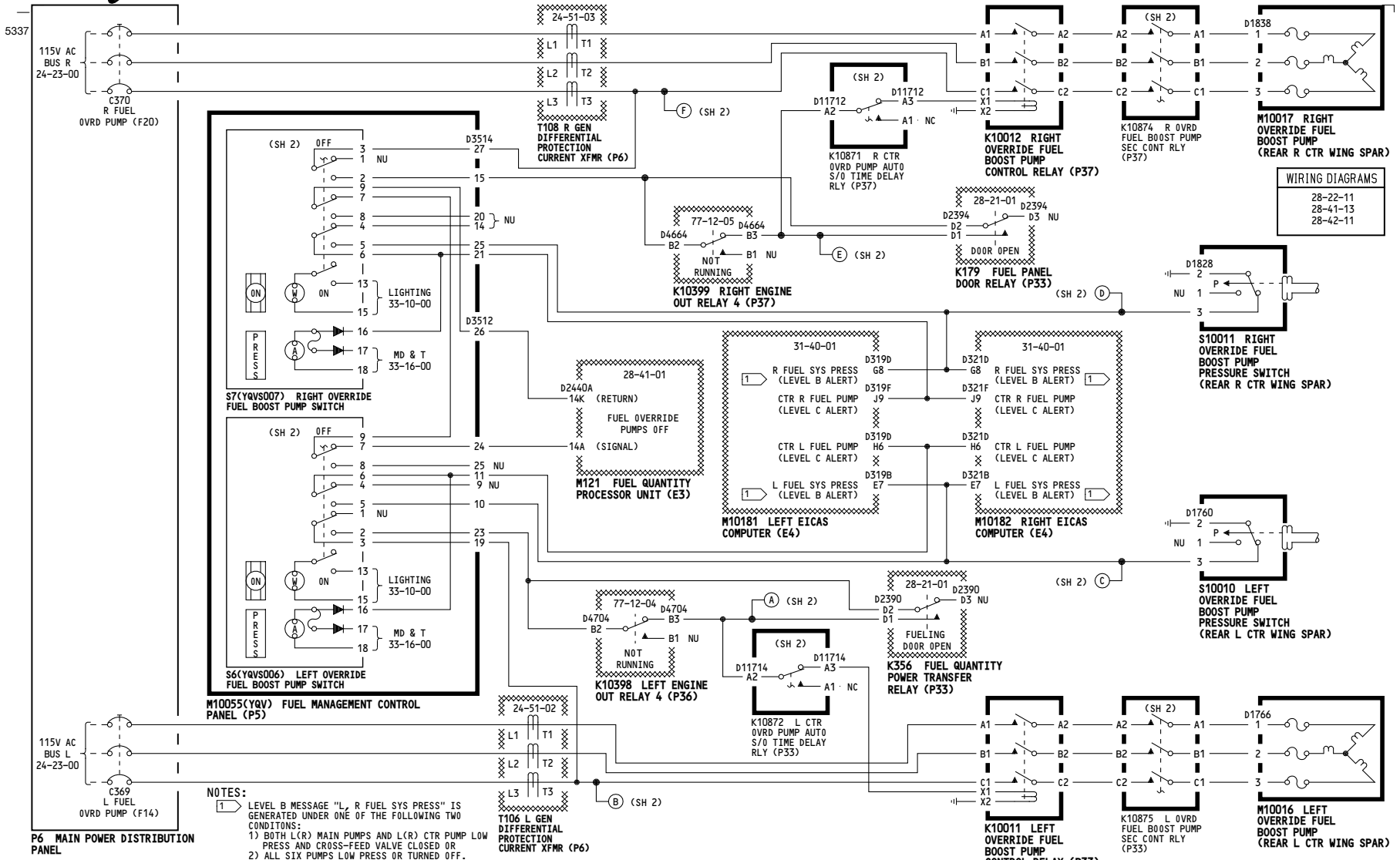
001-002, 115-199

ENGINE FUEL FEED SYSTEM - CENTER TANK

D280N032S

NOTES:
1) LEVEL B MESSAGE "L, R FUEL SYS PRESS" IS GENERATED UNDER ONE OF THE FOLLOWING TWO CONDITIONS:
1) BOTH L(R) MAIN PUMPS AND L(R) CTR PUMP LOW PRESS AND CROSS-FEED VALVE CLOSED OR
2) ALL SIX PUMPS LOW PRESS OR TURNED OFF.

28-22-03



NOTES:
 1) LEVEL B MESSAGE "L, R FUEL SYS PRESS" IS GENERATED UNDER ONE OF THE FOLLOWING TWO CONDITIONS:
 1) BOTH L(R) MAIN PUMPS AND L(R) CTR PUMP LOW PRESS AND CROSS-FEED VALVE CLOSED OR
 2) ALL SIX PUMPS LOW PRESS OR TURNED OFF.

P6 MAIN POWER DISTRIBUTION PANEL

001-002, 115

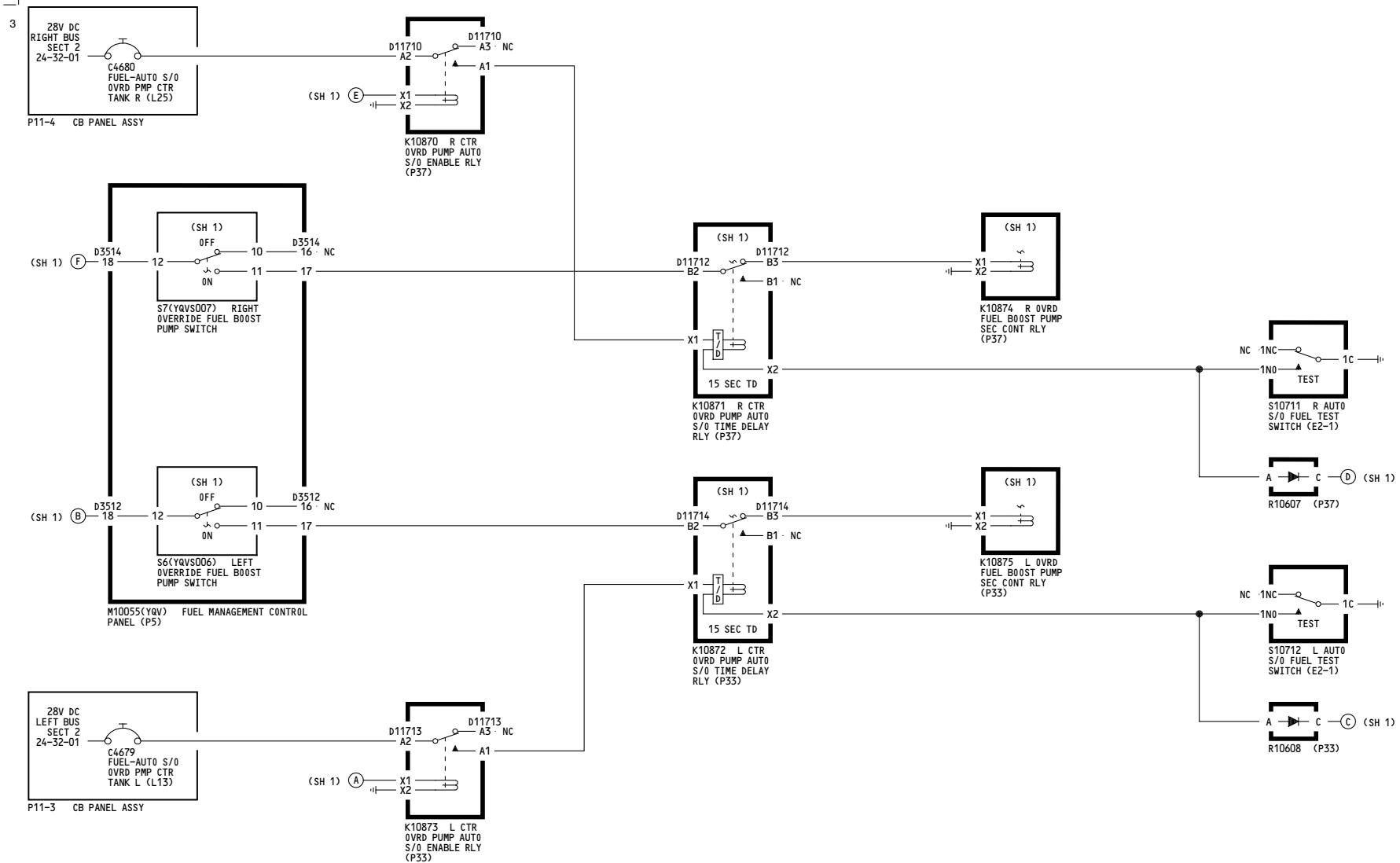
ENGINE FUEL FEED SYSTEM - CENTER TANK

D280N032S

- Incorporates
- 28A0081
 - 28A0105 R01

28-22-03

Page 101.1
 Sheet 1
 Oct 09/2008

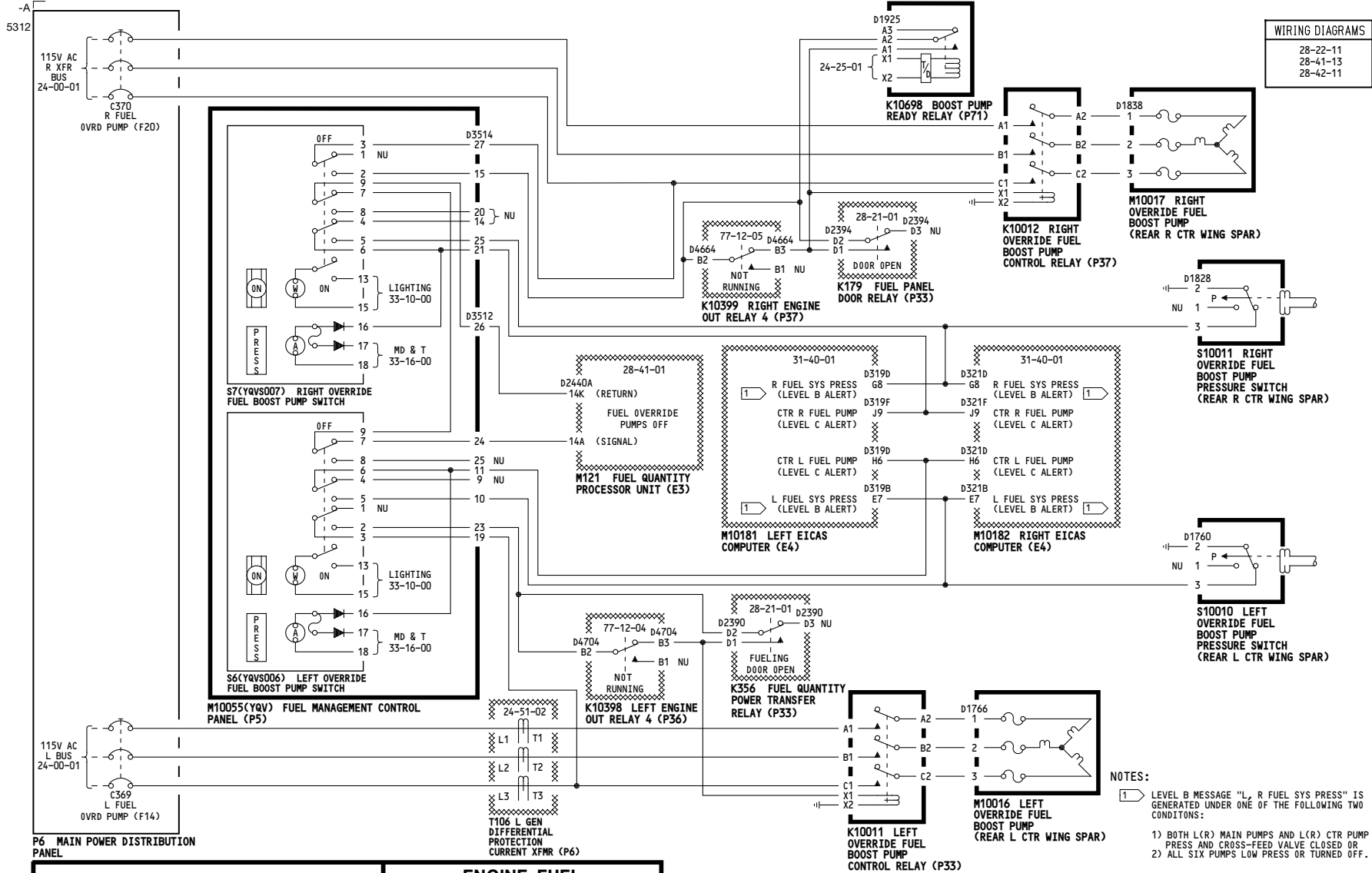


<p>001-002, 115</p>	<p>ENGINE FUEL FEED SYSTEM - CENTER TANK</p> <p>D280N032S</p>
---------------------	--

- Incorporates
- ▶ 28A0081
 - ▶ 28A0105 R01

28-22-03

Page 101.1
Sheet 2
Oct 09/2008



WIRING DIAGRAMS
 28-22-11
 28-41-13
 28-42-11

NOTES:

1) LEVEL B MESSAGE "L, R FUEL SYS PRESS" IS GENERATED UNDER ONE OF THE FOLLOWING TWO CONDITIONS:

2) BOTH L(R) MAIN PUMPS AND L(R) CTR PUMP LOW PRESS AND CROSS-FEED VALVE CLOSED OR

3) ALL SIX PUMPS LOW PRESS OR TURNED OFF.

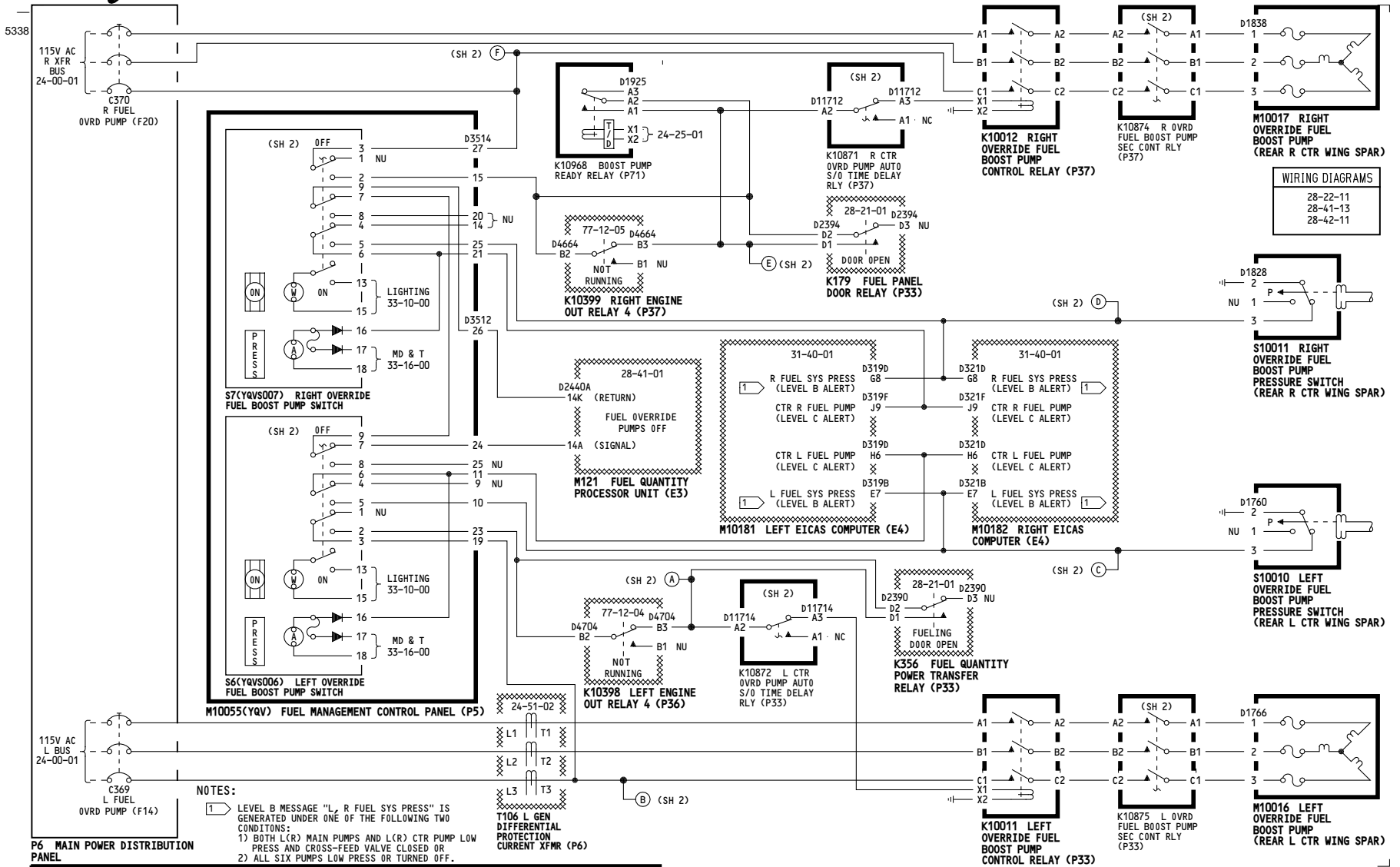
003-099

ENGINE FUEL FEED SYSTEM - CENTER TANK

D280N032S

28-22-03

THIS PAGE INTENTIONALLY LEFT BLANK



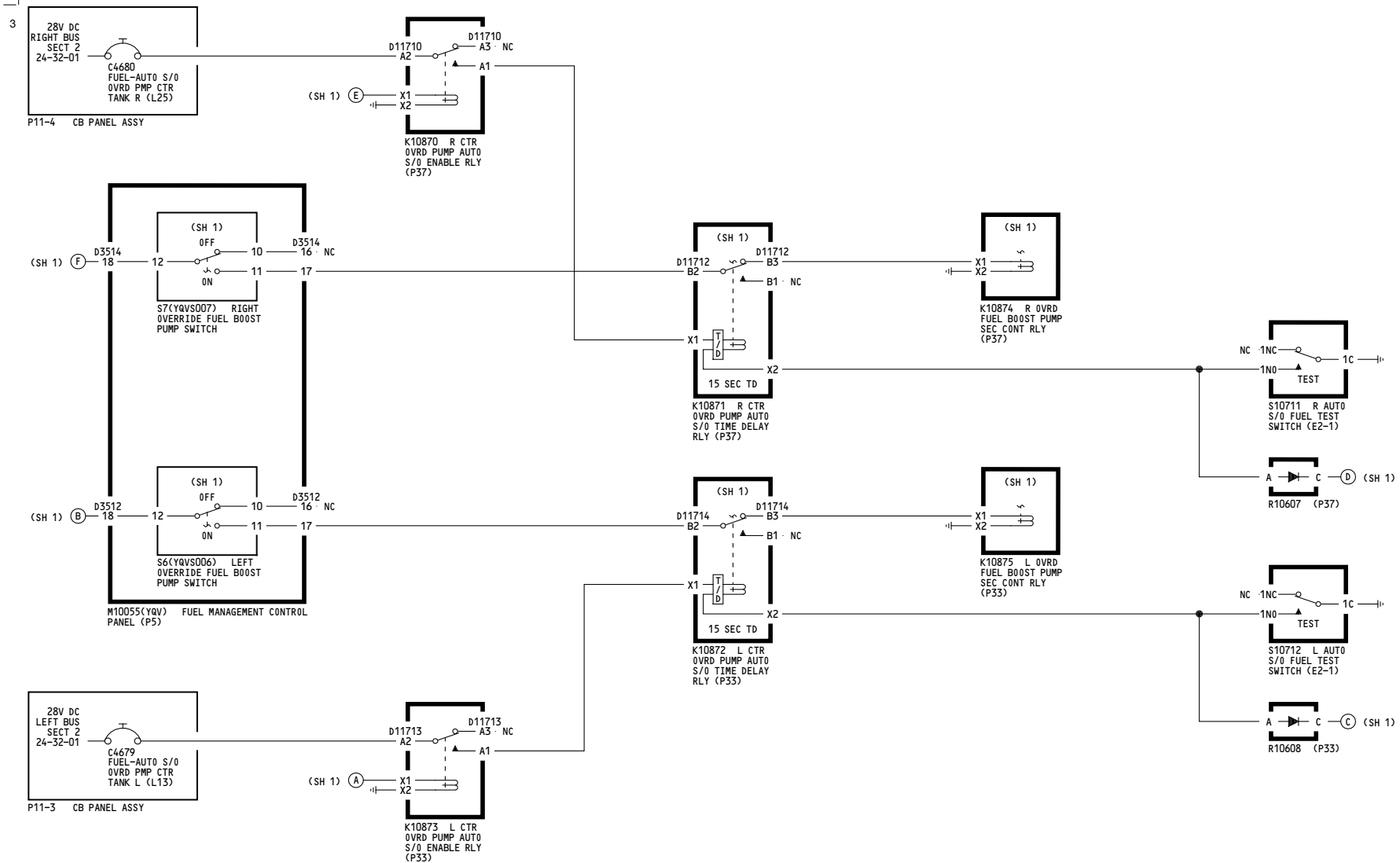
003-011

ENGINE FUEL FEED SYSTEM - CENTER TANK

D280N032S

- Incorporates
- 28A0081
 - 28A0105 R01

28-22-03



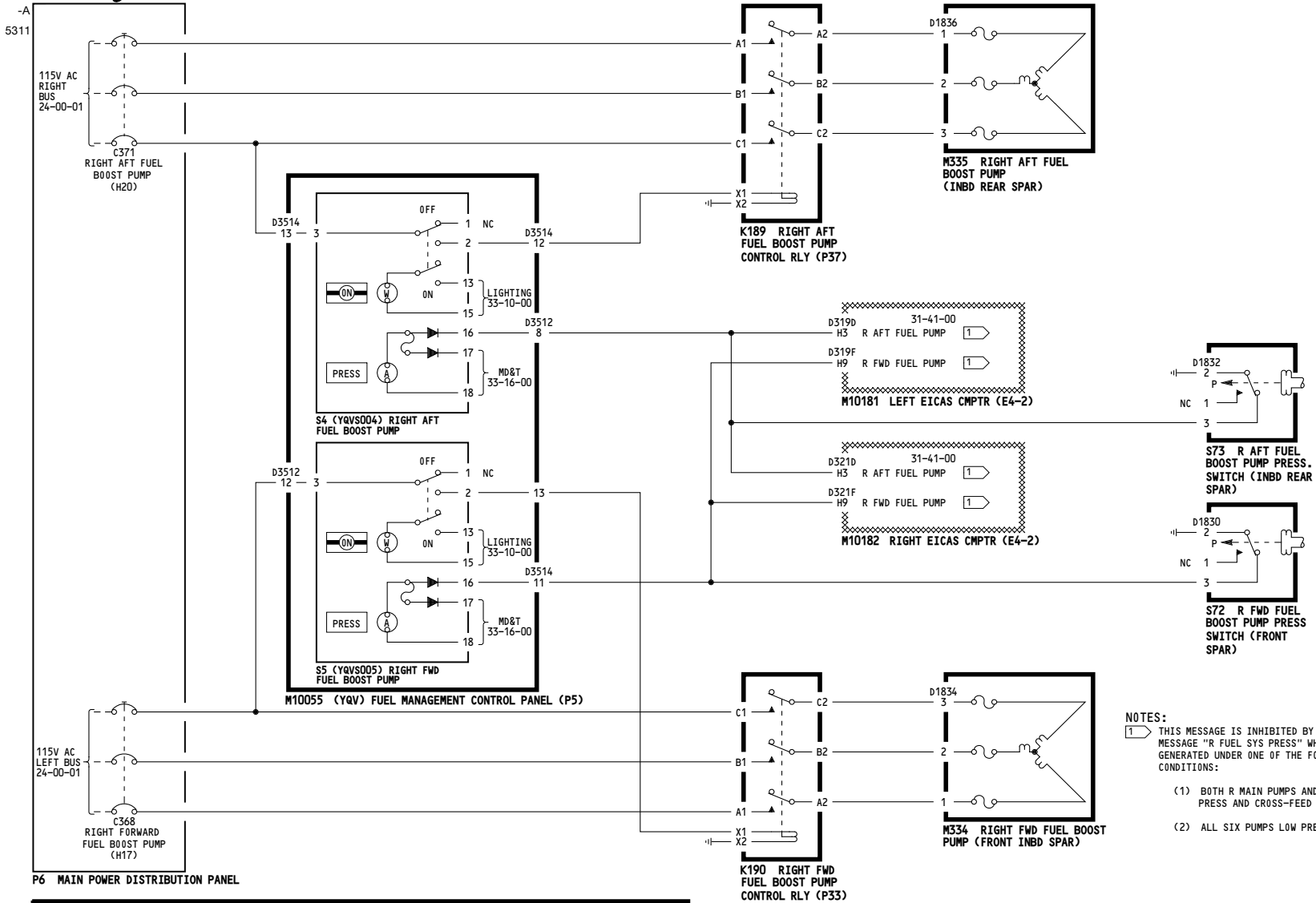
<p>003-011</p>	<p>ENGINE FUEL FEED SYSTEM - CENTER TANK</p> <p>D280N032S</p>
----------------	--

- Incorporates
- ▶ 28A0081
 - ▶ 28A0105 R01

28-22-03

Page 102.1
Sheet 2
Oct 09/2008

WIRING DIAGRAMS
28-22-11
28-42-11



- NOTES:**
- 1 THIS MESSAGE IS INHIBITED BY LEVEL B MESSAGE "R FUEL SYS PRESS" WHICH IS GENERATED UNDER ONE OF THE FOLLOWING CONDITIONS:
 - (1) BOTH R MAIN PUMPS AND R CTR PUMP LOW PRESS AND CROSS-FEED VALVE CLOSED; OR
 - (2) ALL SIX PUMPS LOW PRESS OR TURNED OFF.

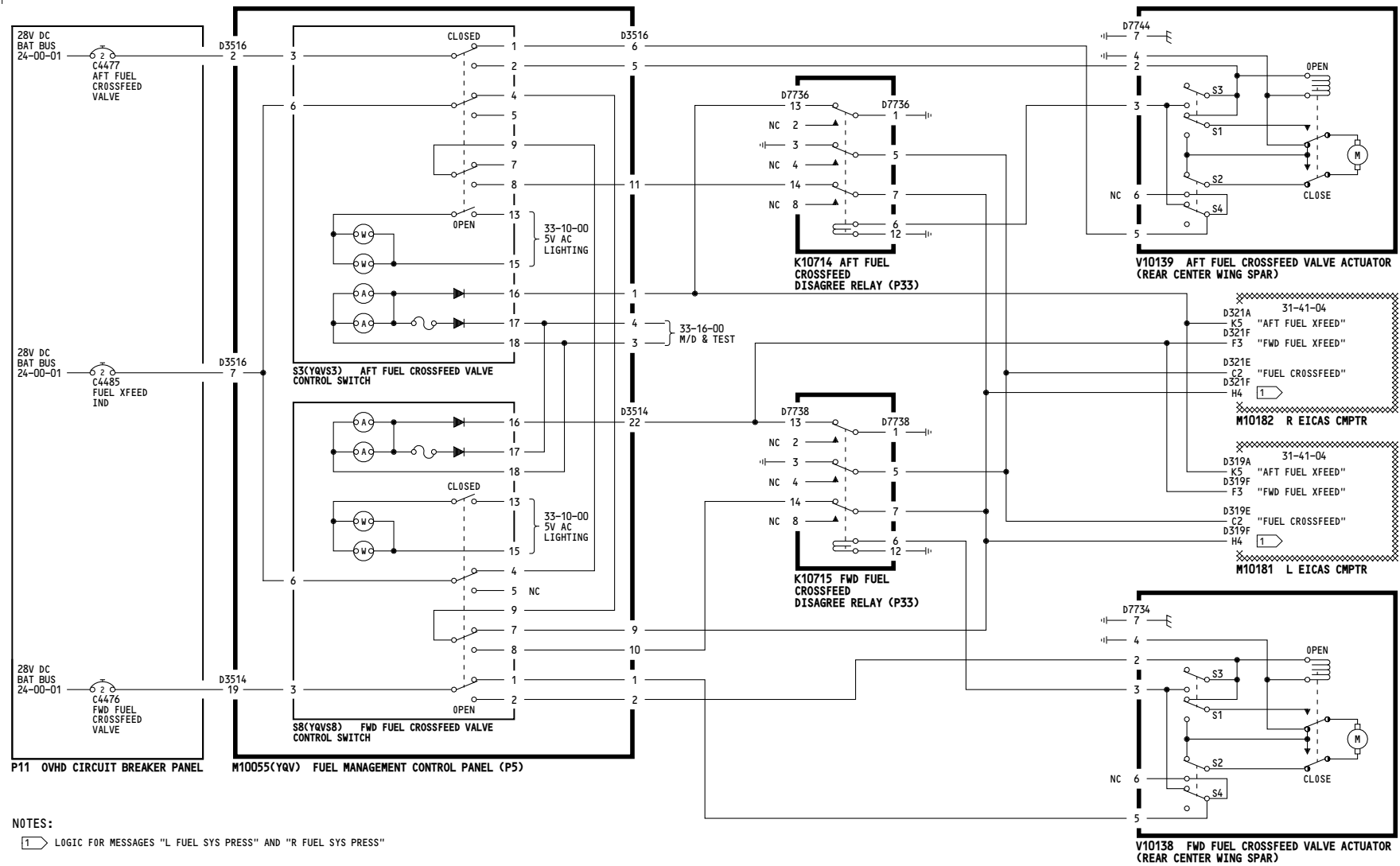
ALL

ENGINE FUEL FEED SYSTEM - RIGHT TANK

D280N032S

28-22-04

5300



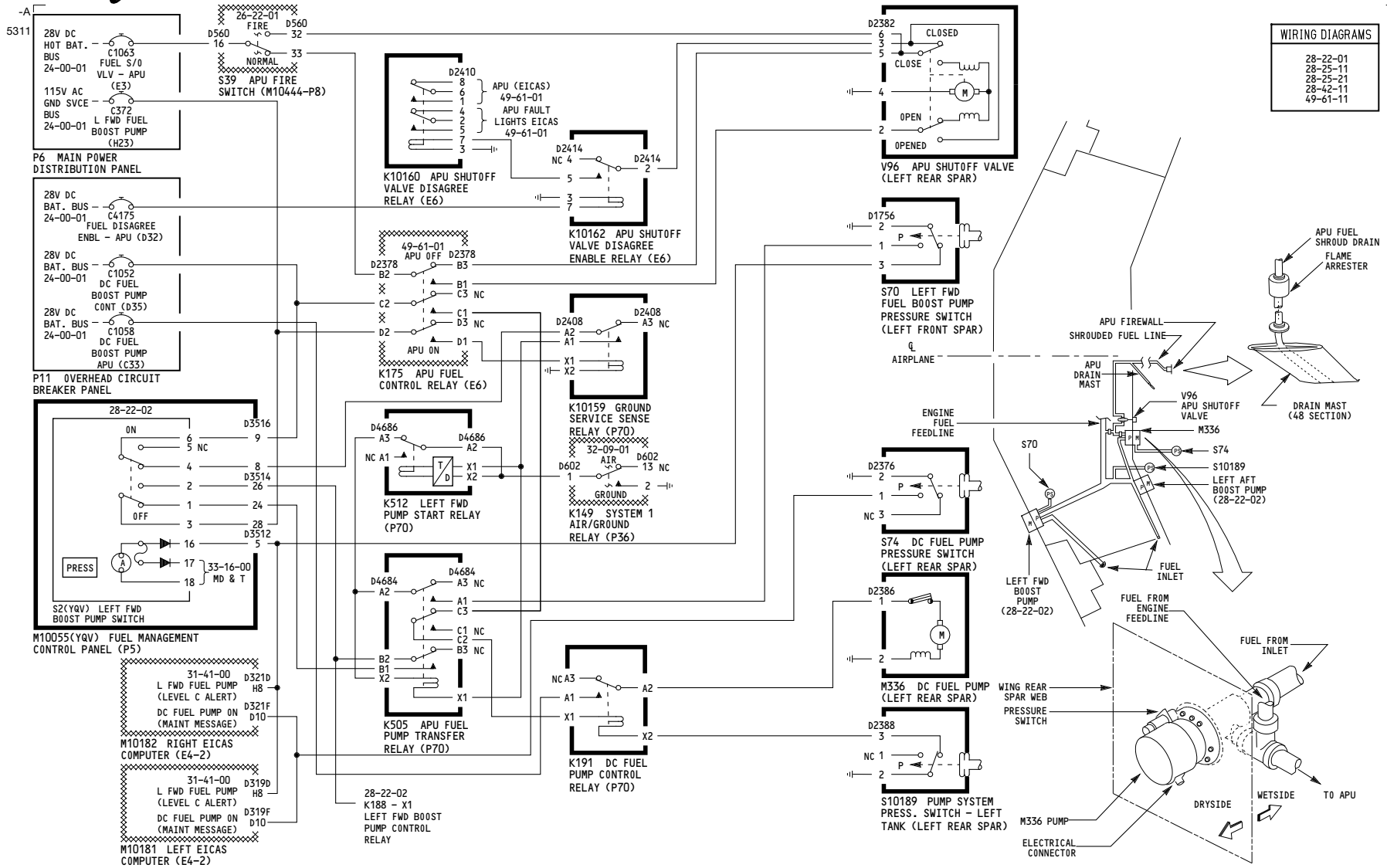
NOTES:
 1 LOGIC FOR MESSAGES "L FUEL SYS PRESS" AND "R FUEL SYS PRESS"

009-099	FUEL CROSSFEED VALVES
D280N032S	

28-22-05

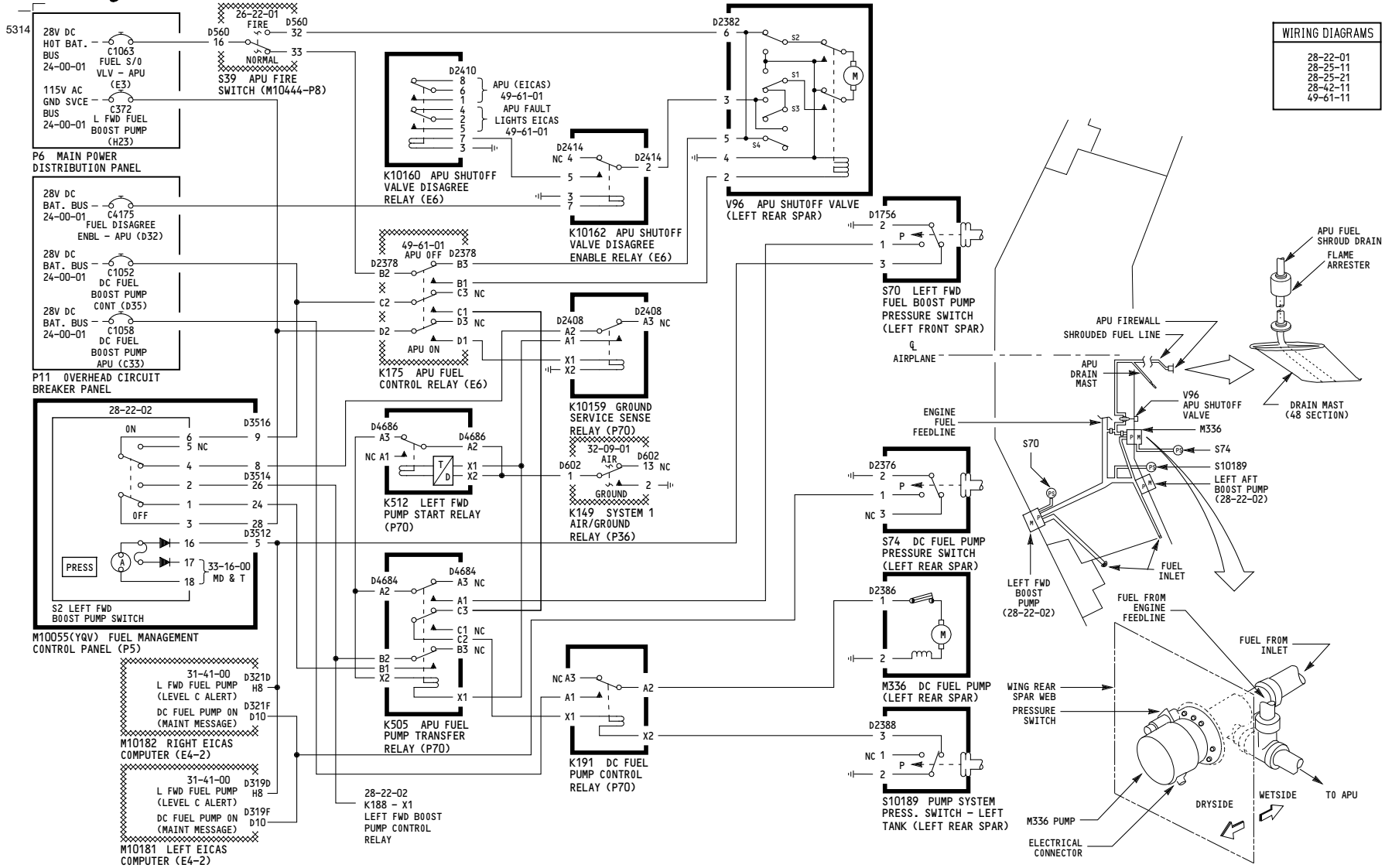
Page 101

Jan 21/2005



001, 115-199	APU FUEL FEED SYSTEM
D280N032S	

28-25-01



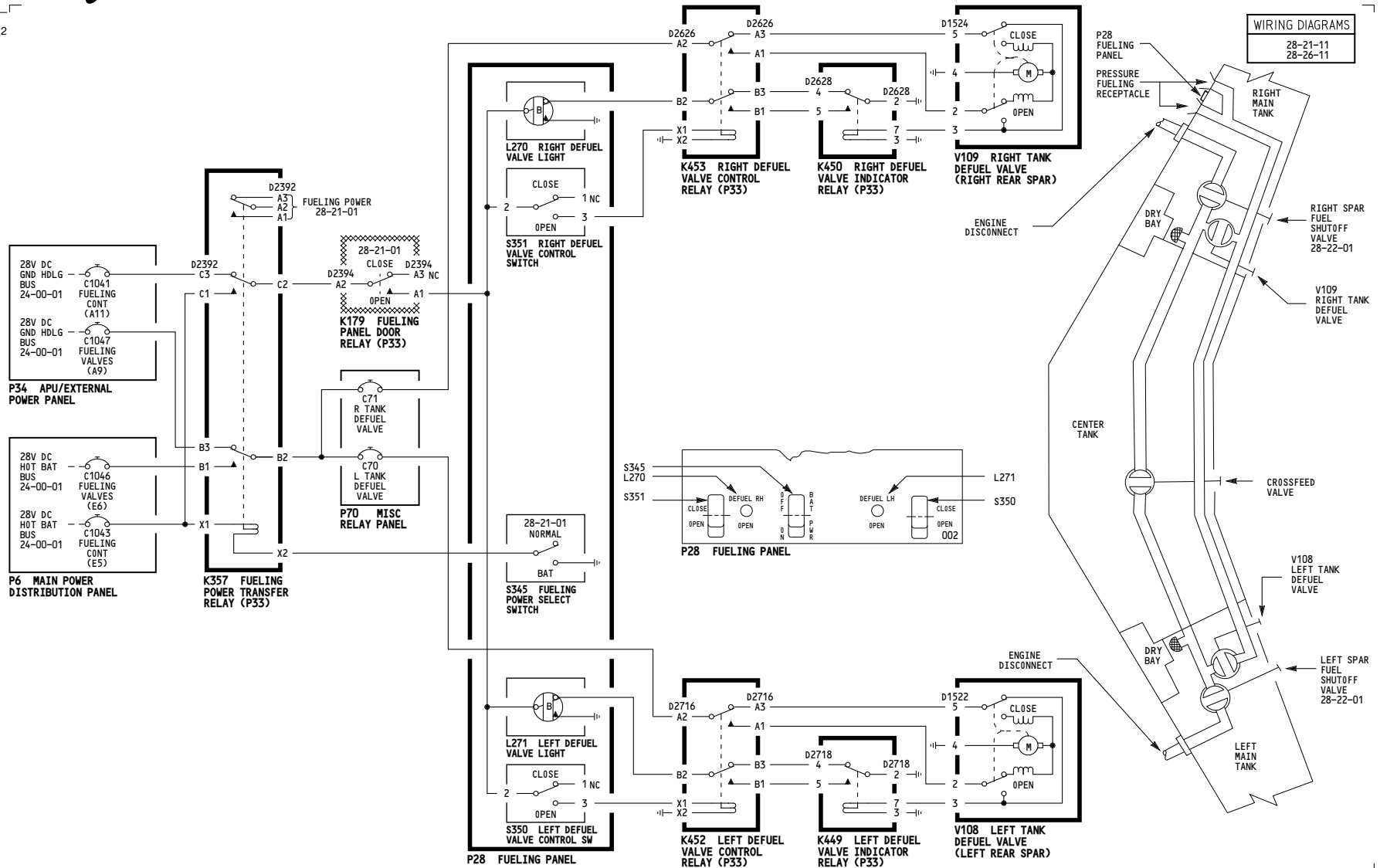
WIRING DIAGRAMS

28-22-01
28-25-11
28-25-21
28-42-11
49-61-11

002-099	<p align="center">APU FUEL FEED SYSTEM</p> <p align="center">D280N032S</p>
---------	---

28-25-01

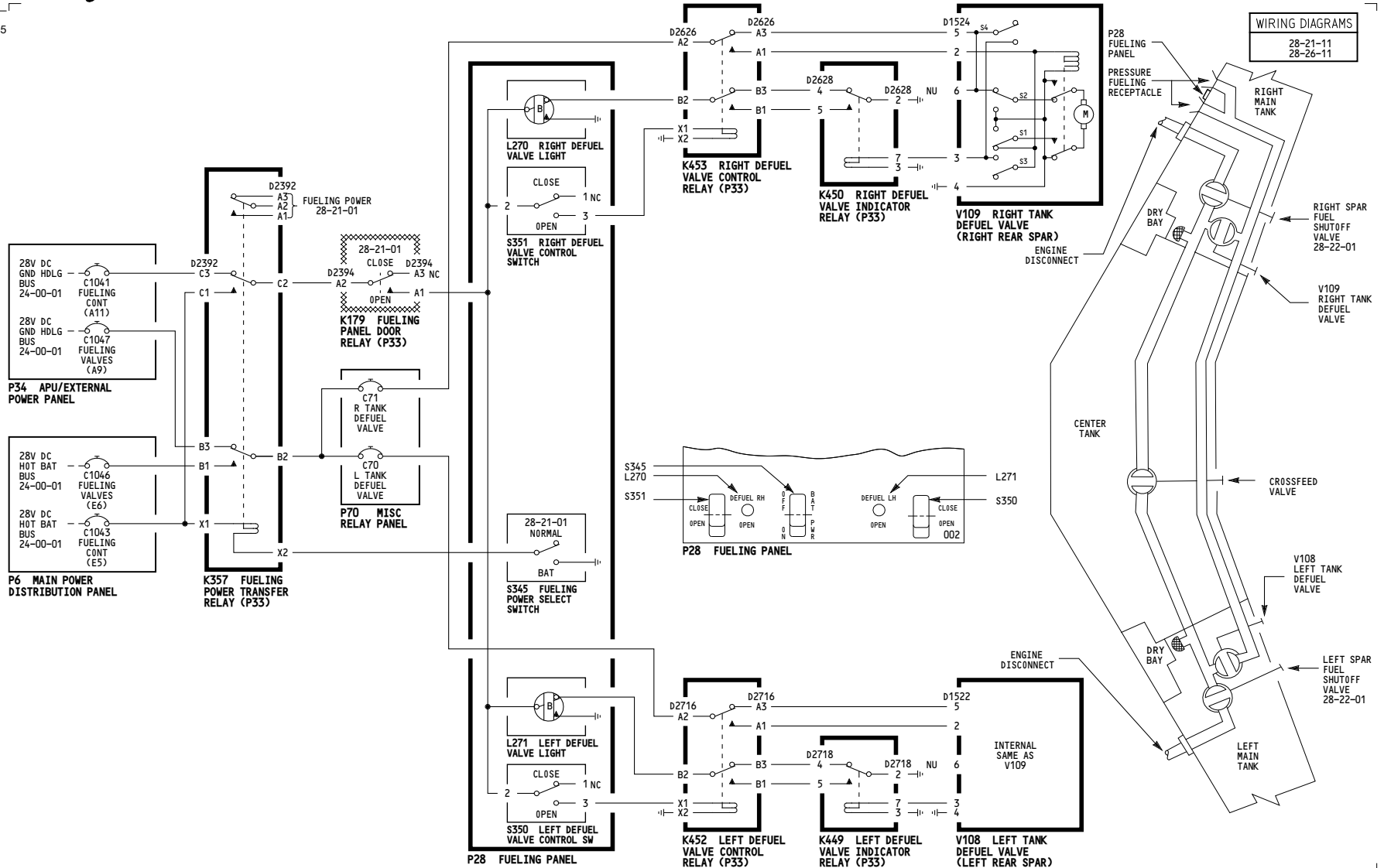
5312



WIRING DIAGRAMS
28-21-11
28-26-11

001, 115-199	DEFUELING
D280N032S	

28-26-01

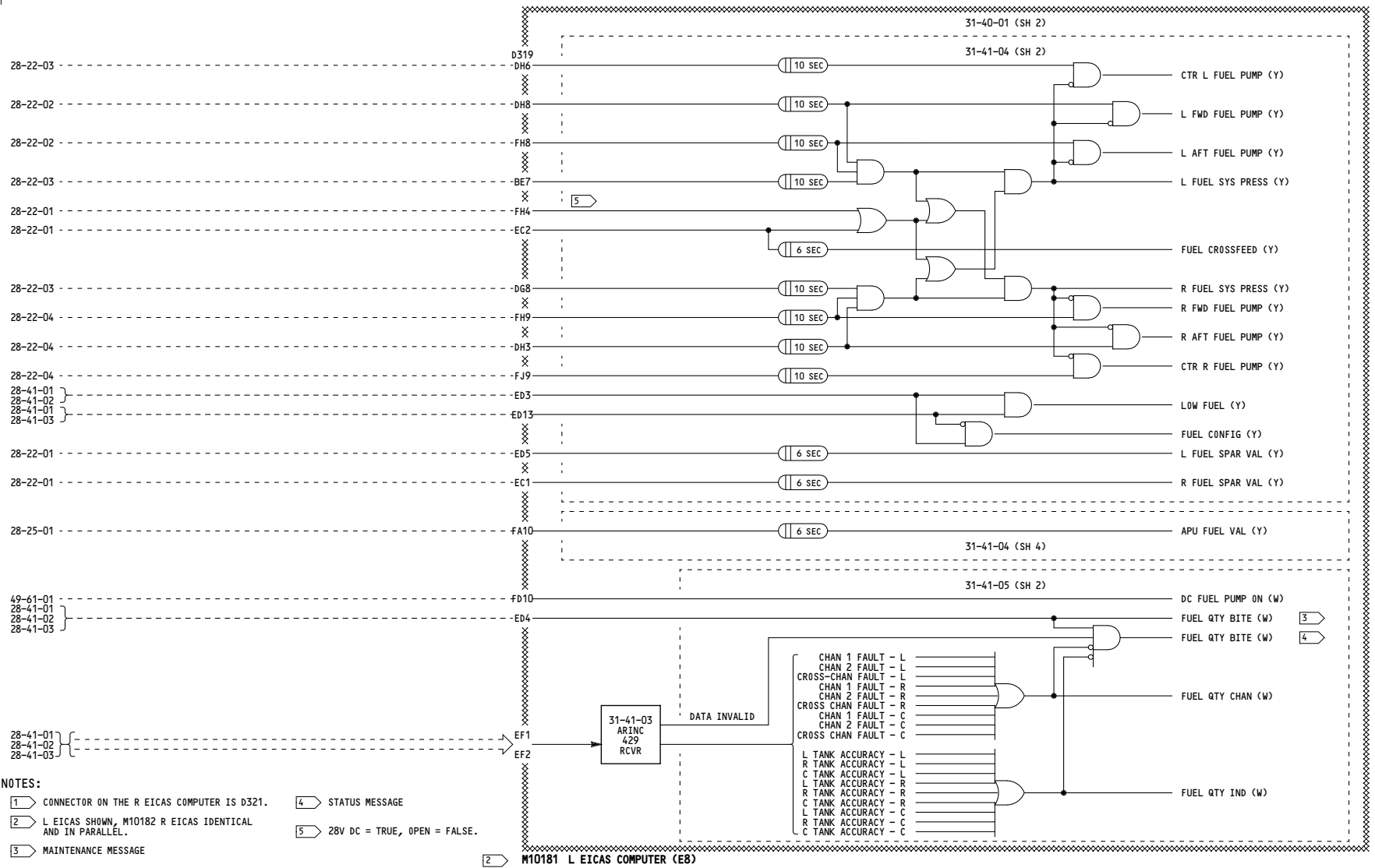


WIRING DIAGRAMS
28-21-11
28-26-11

002-099	DEFUELING
D280N032S	

28-26-01

5300



NOTES:

- 1 CONNECTOR ON THE R EICAS COMPUTER IS D321.
- 2 L EICAS SHOWN, M10182 R EICAS IDENTICAL AND IN PARALLEL.
- 3 MAINTENANCE MESSAGE
- 4 STATUS MESSAGE
- 5 28V DC = TRUE, 0PEN = FALSE.

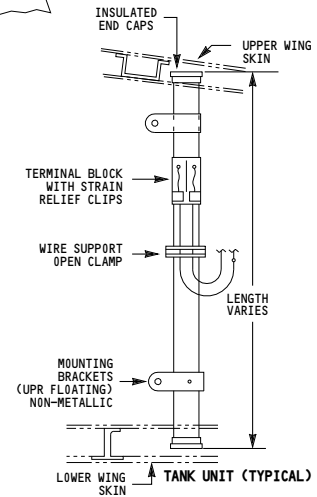
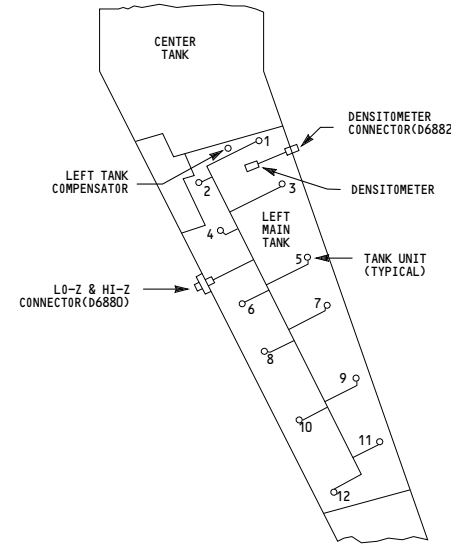
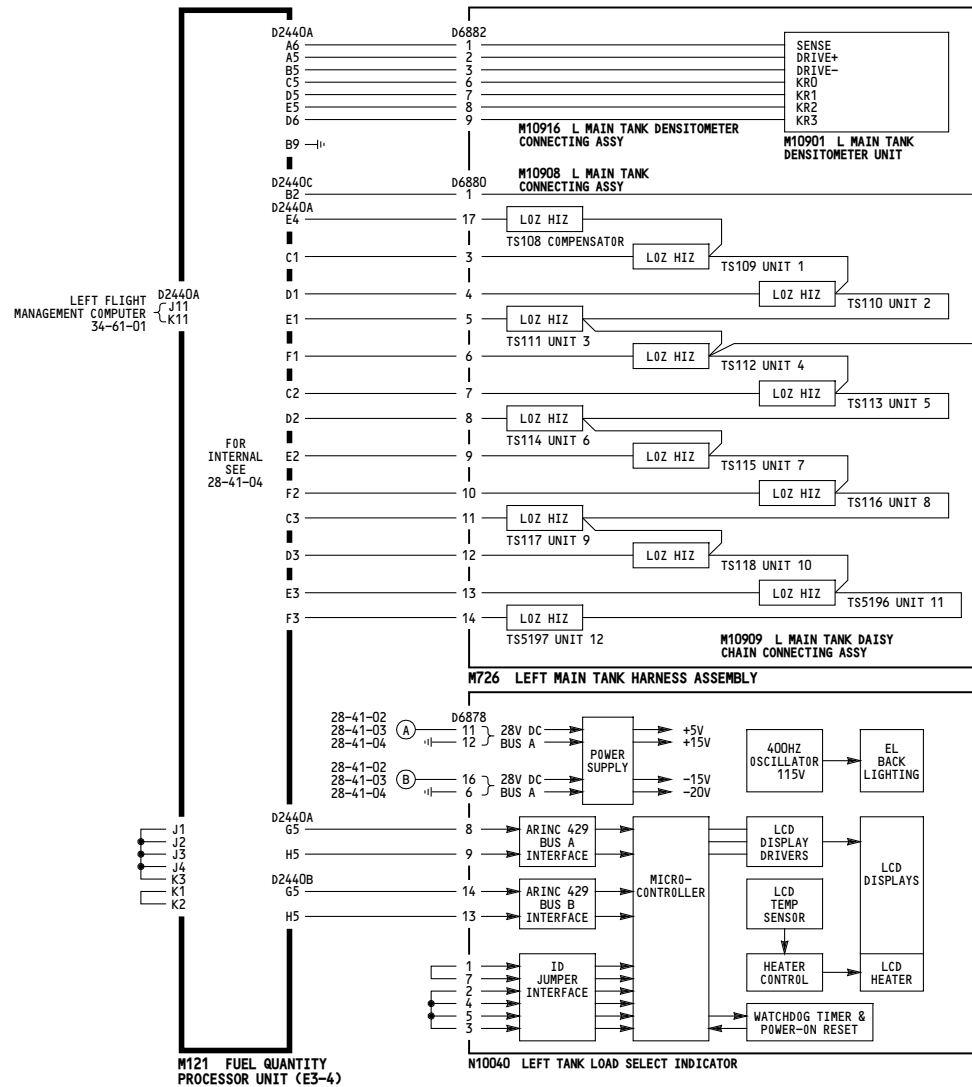
ALL	FUEL - EICAS WARNING
	D280N032S

28-40-01

Page 101

Jan 21/2005

WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-21	

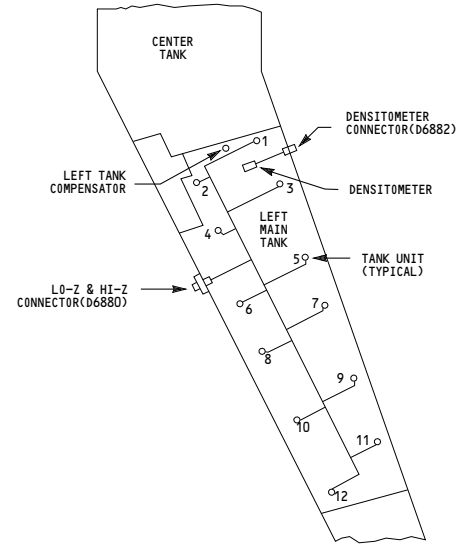
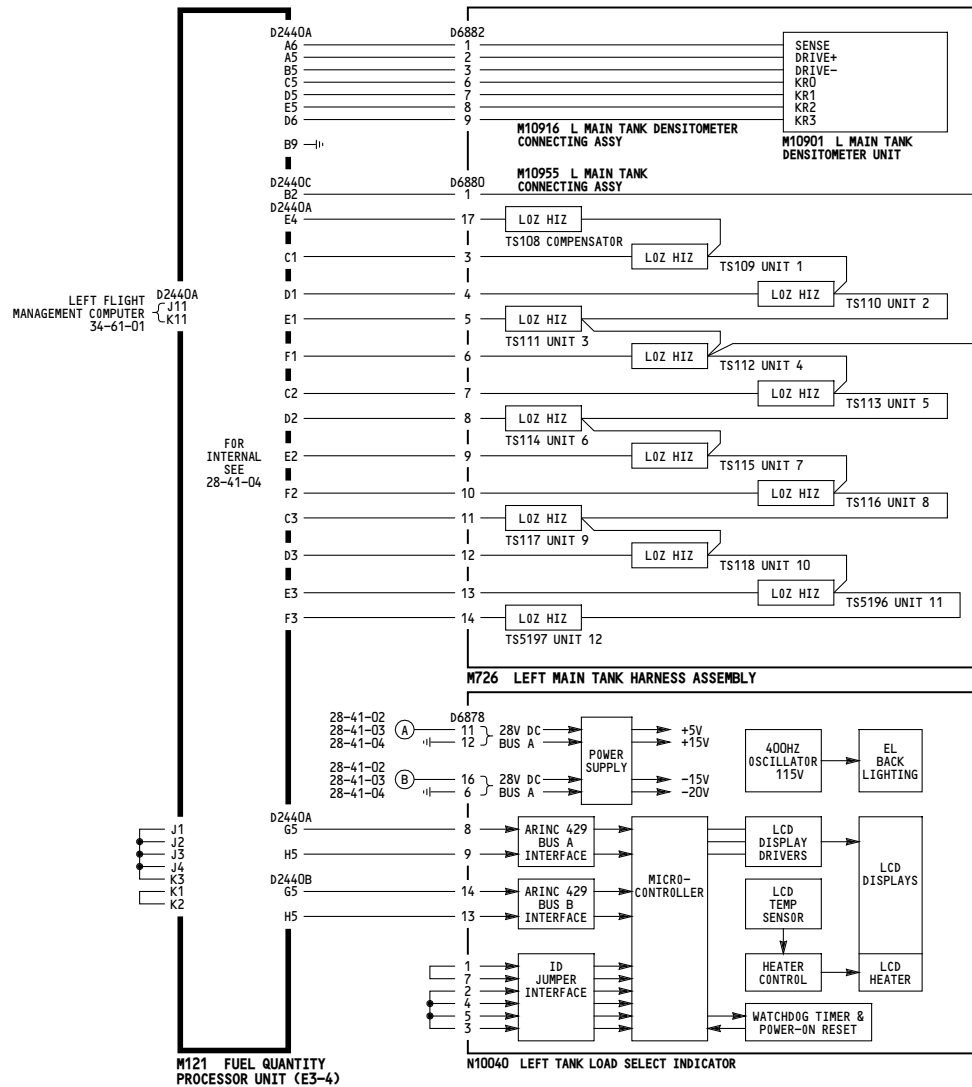


001-007

LEFT TANK FUEL QUANTITY INDICATION

D280N032S

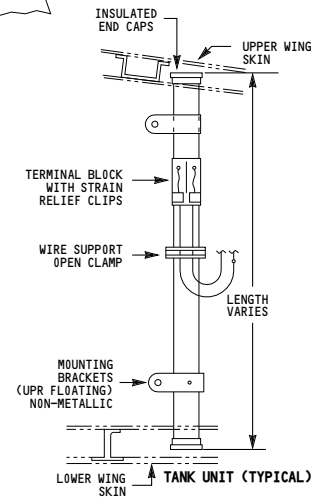
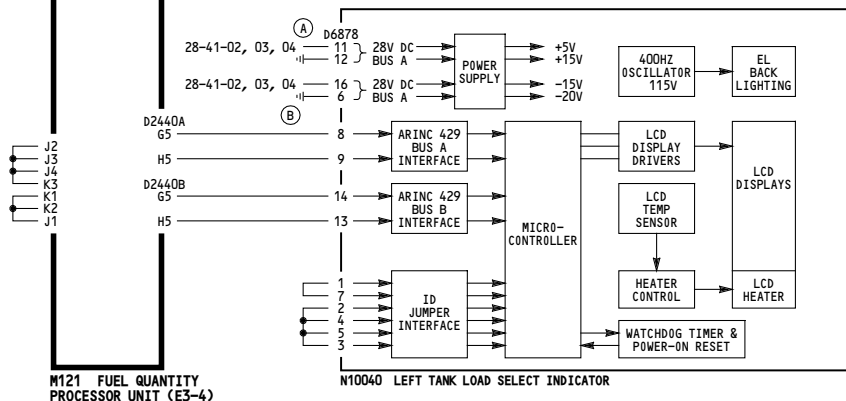
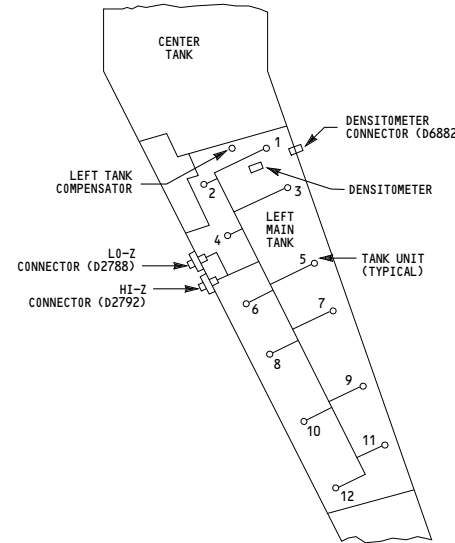
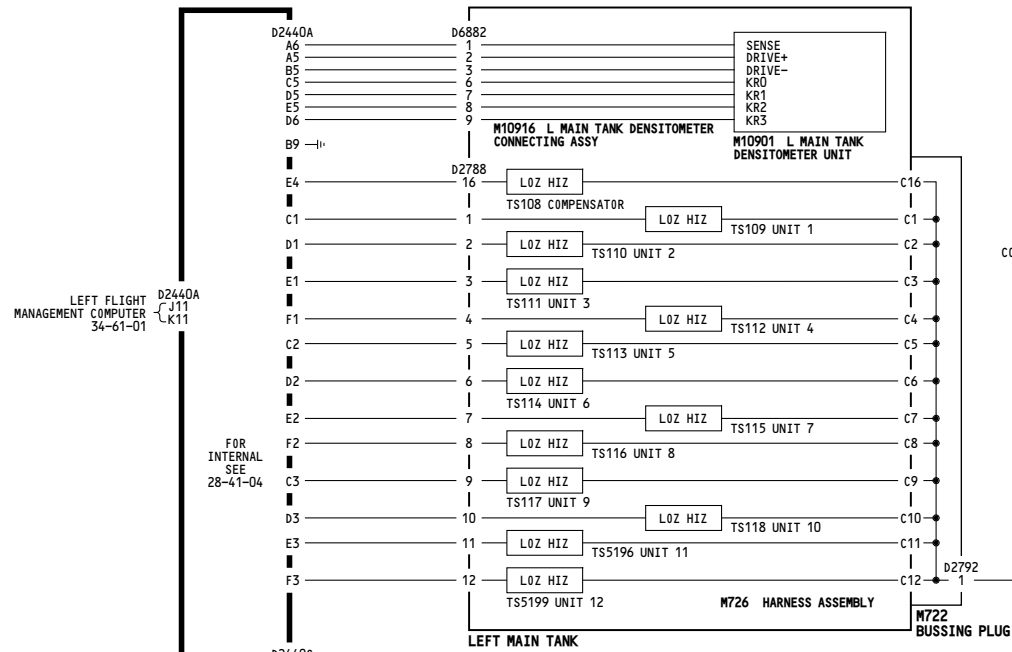
WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-21	



008-099	<p>LEFT TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
---------	---

5316

WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-21	

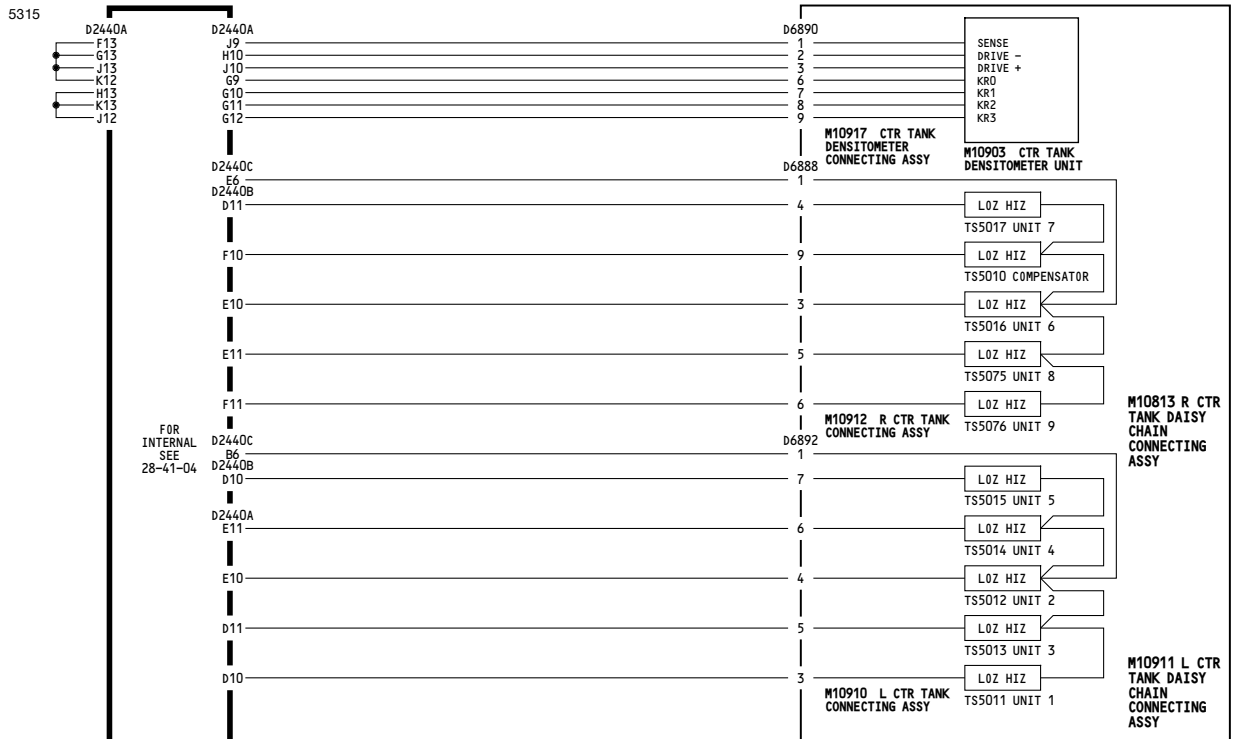


115-199	<p>LEFT TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
---------	---

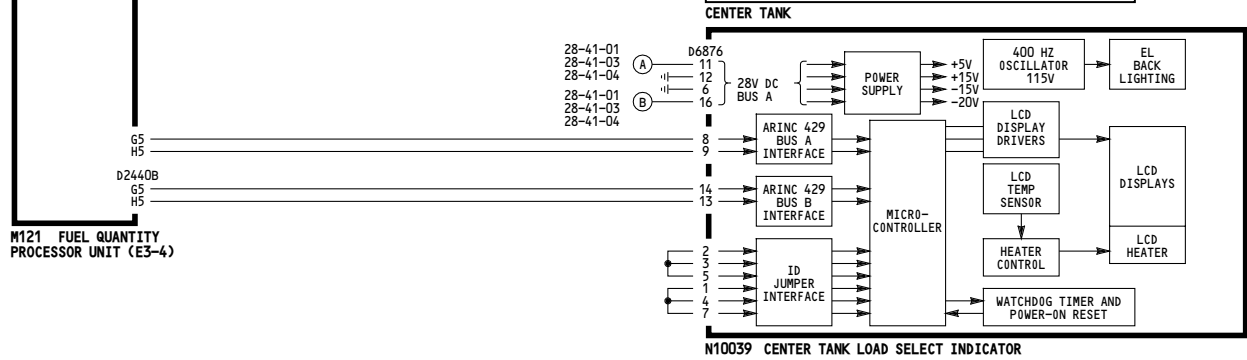
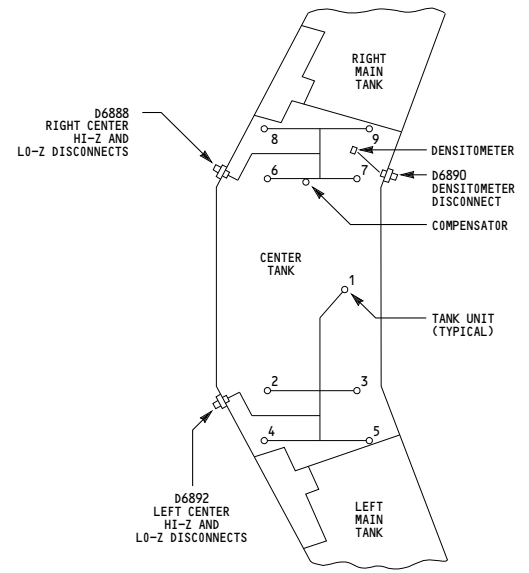
28-41-01

Page 103

Dec 18/2007



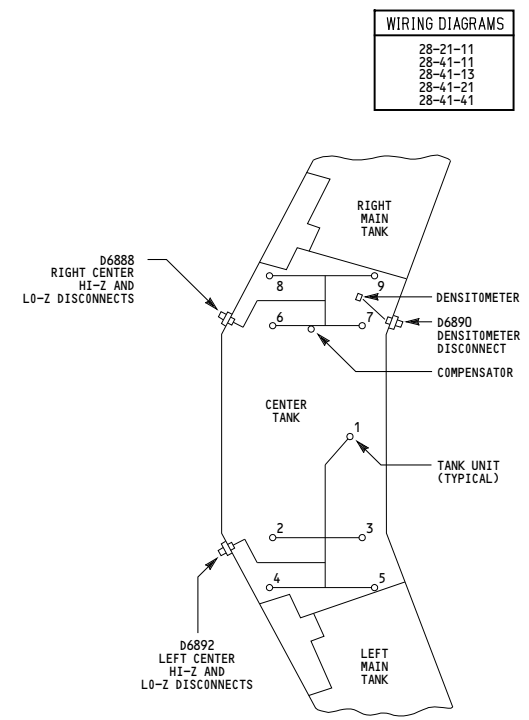
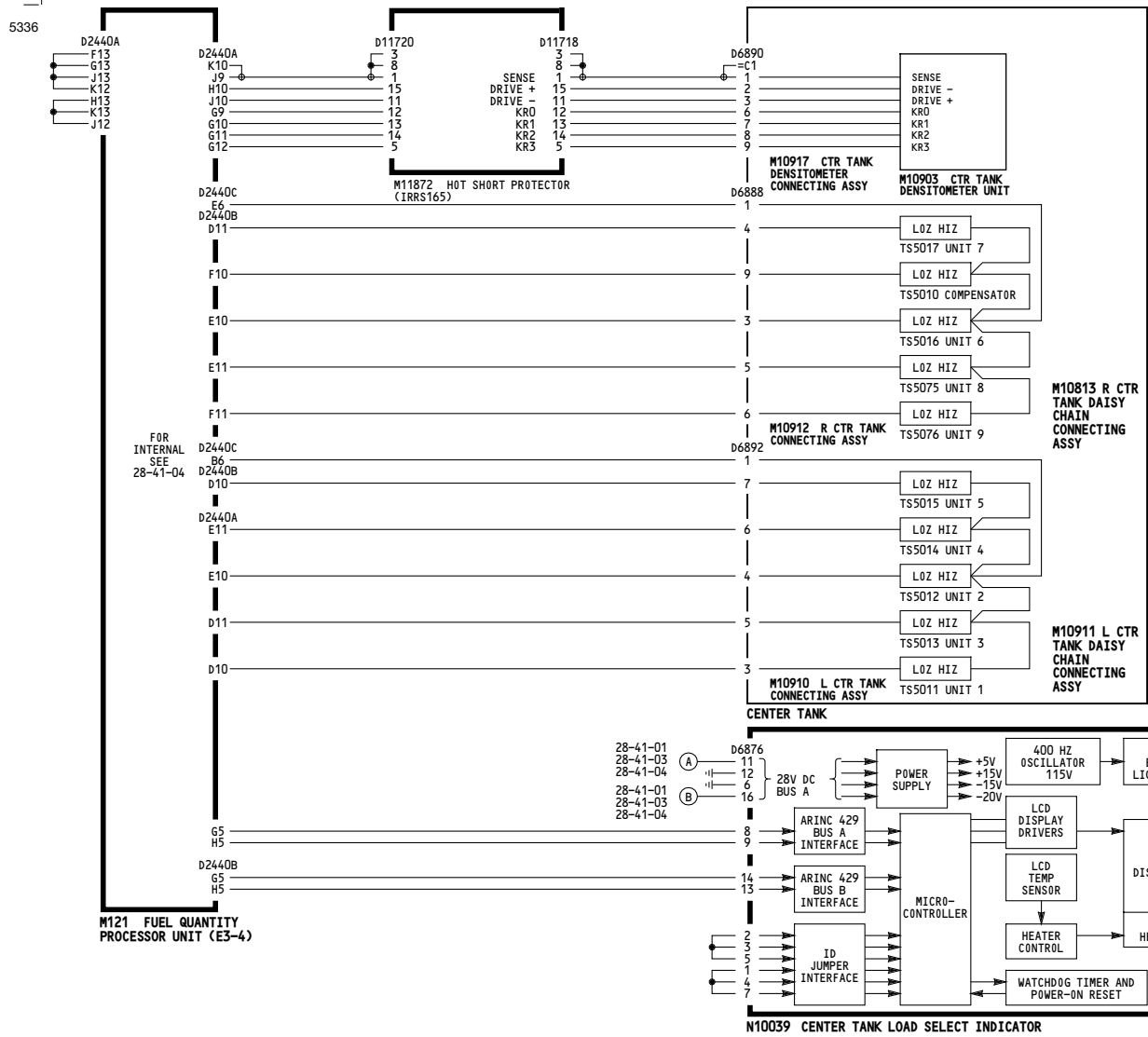
WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-21	
28-41-41	



N10039 CENTER TANK LOAD SELECT INDICATOR

001-007	<p>CENTER TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
---------	---

28-41-02



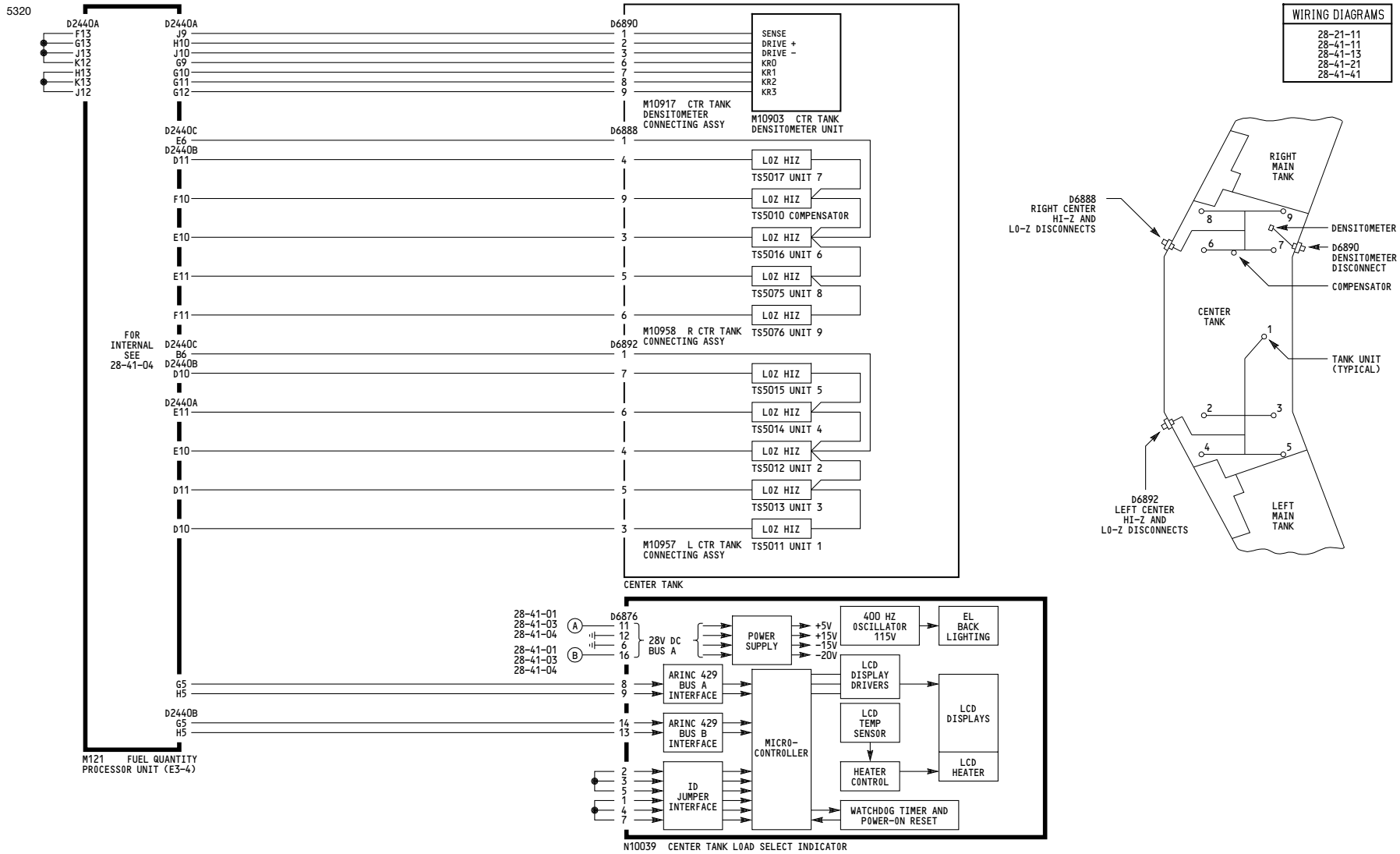
<p>001-007</p>	<p>CENTER TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
----------------	---

Incorporates
 SB 28A0085 R01

28-41-02

Page 101.1

Oct 09/2008

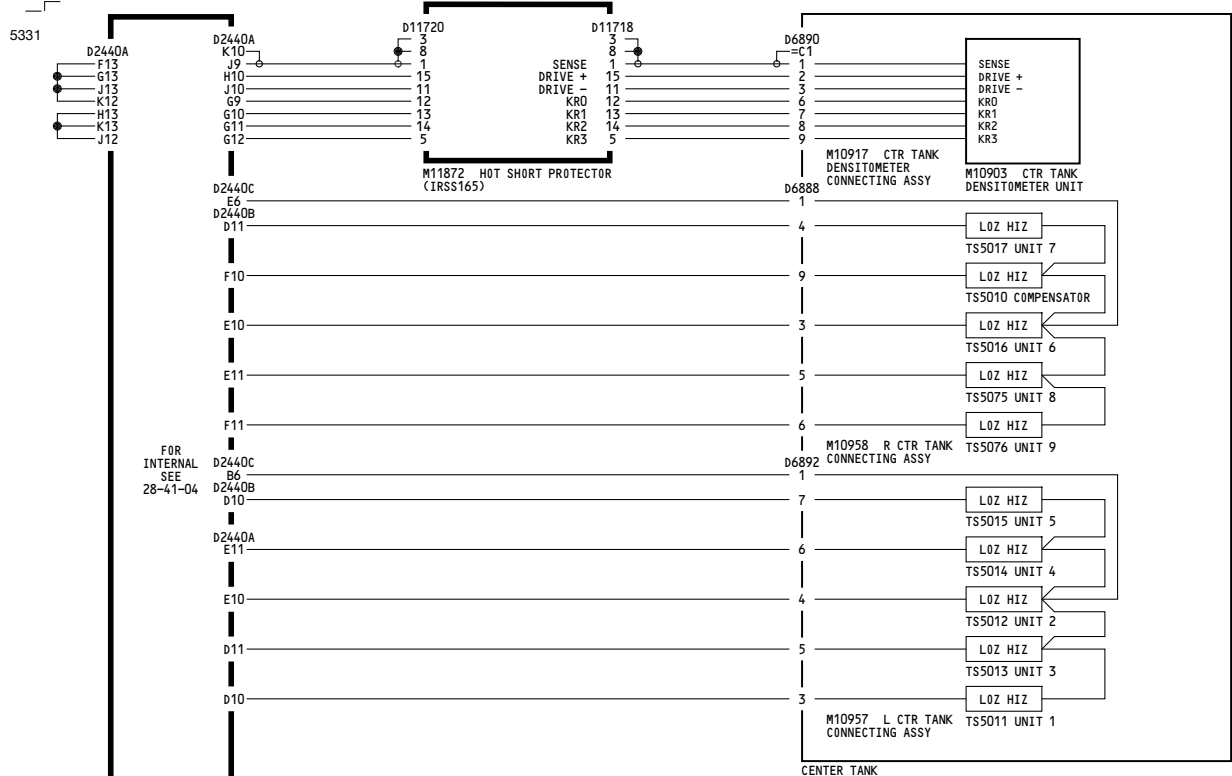


008-099	<p>CENTER TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
---------	---

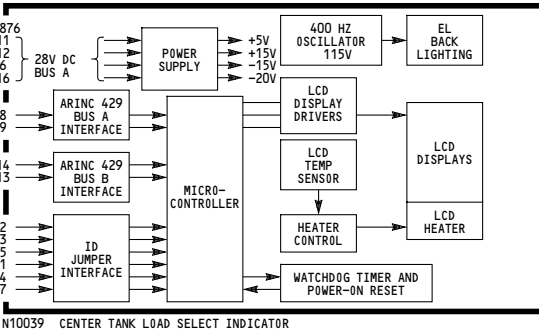
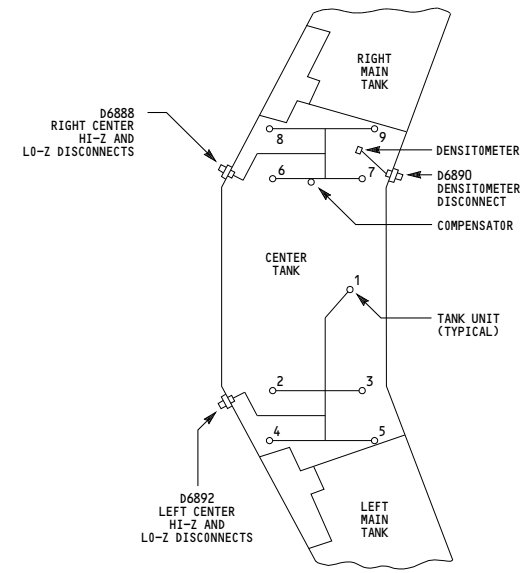
28-41-02

Page 102

Dec 18/2007



WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-21	
28-41-41	

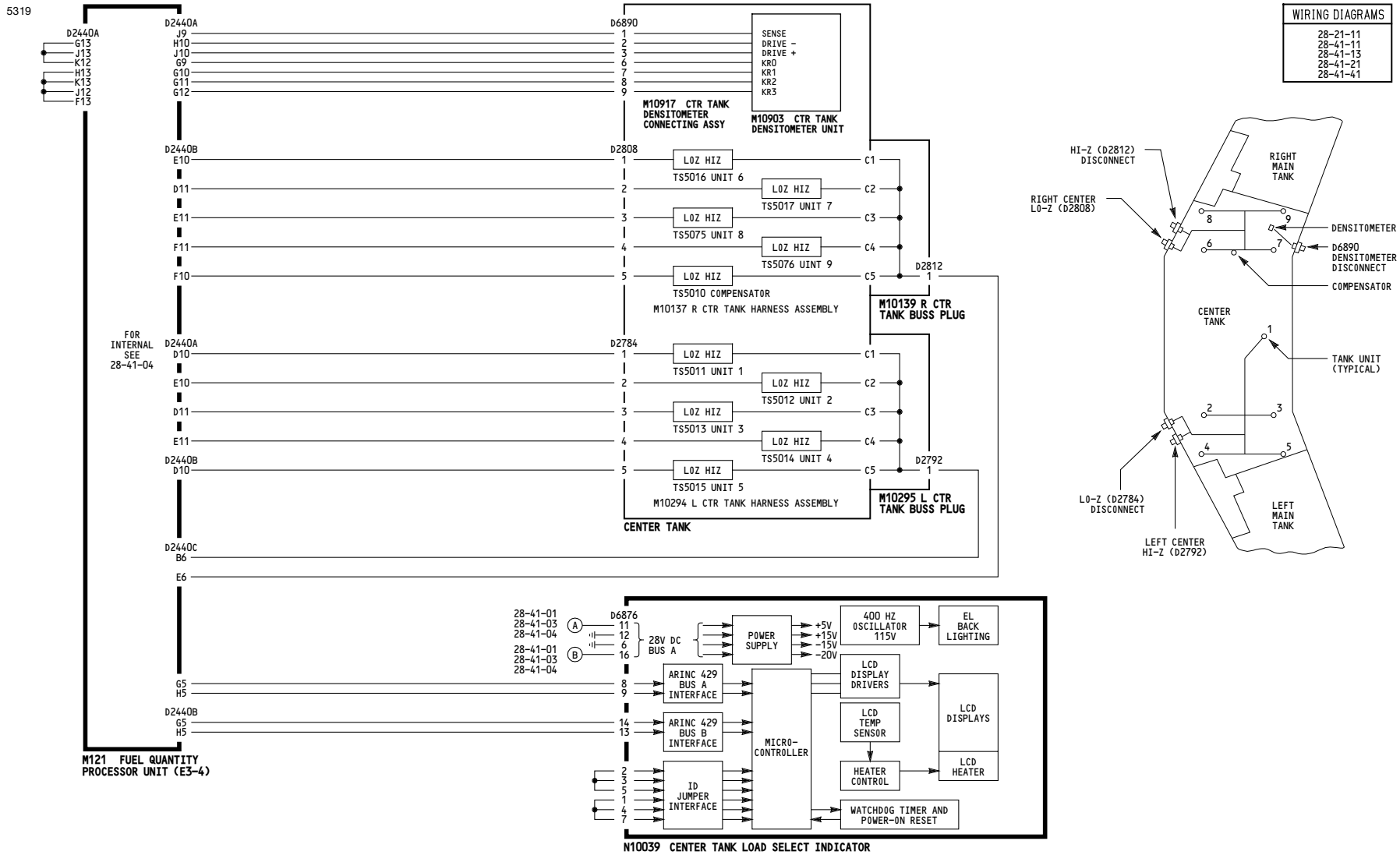


008-011	CENTER TANK FUEL QUANTITY INDICATION	Incorporates SB 28A0085 R01
D280N032S		

28-41-02

Page 102.1

Oct 09/2008



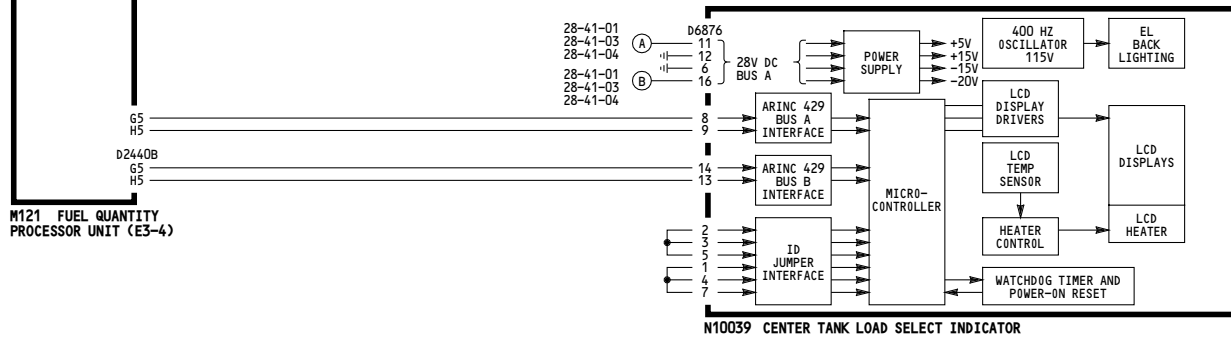
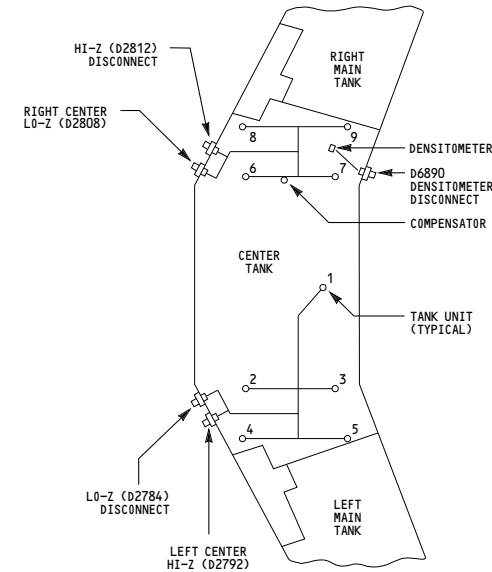
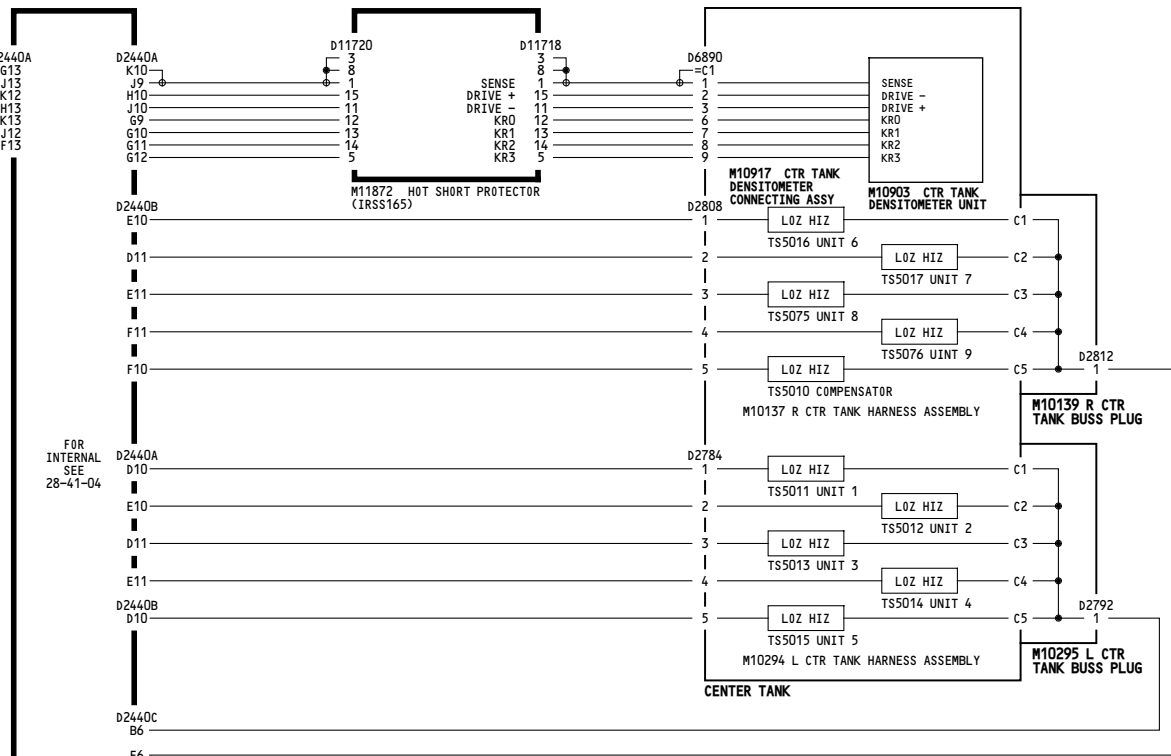
115-199

CENTER TANK FUEL QUANTITY INDICATION

D280N032S

5337

WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-21	
28-41-41	



M10039 CENTER TANK LOAD SELECT INDICATOR

Incorporates
 SB 28A0085 R01

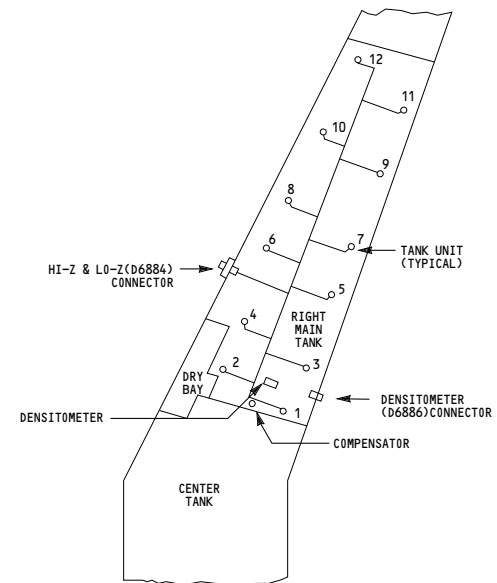
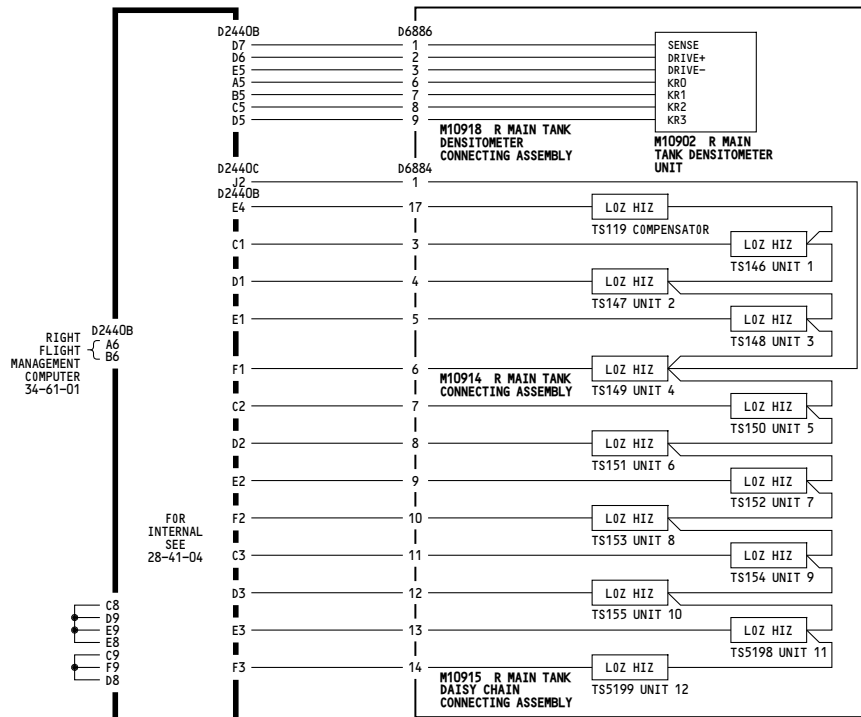
115	<p>CENTER TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
-----	---

28-41-02

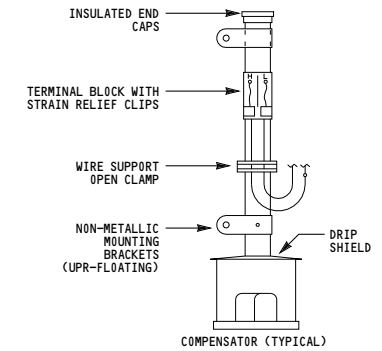
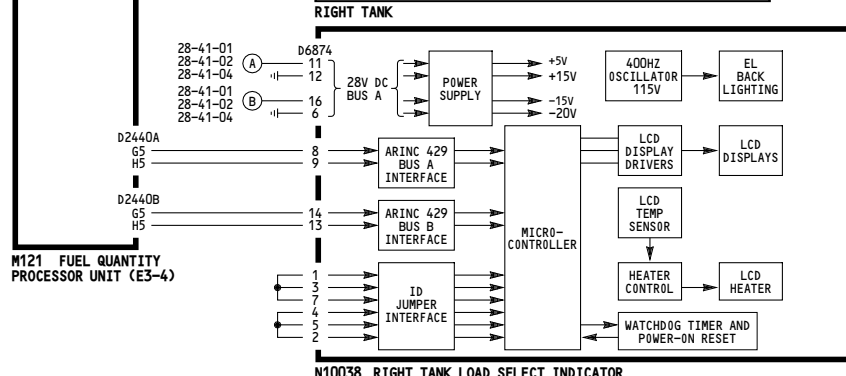
Page 103.1

Oct 09/2008

5319



WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-31	



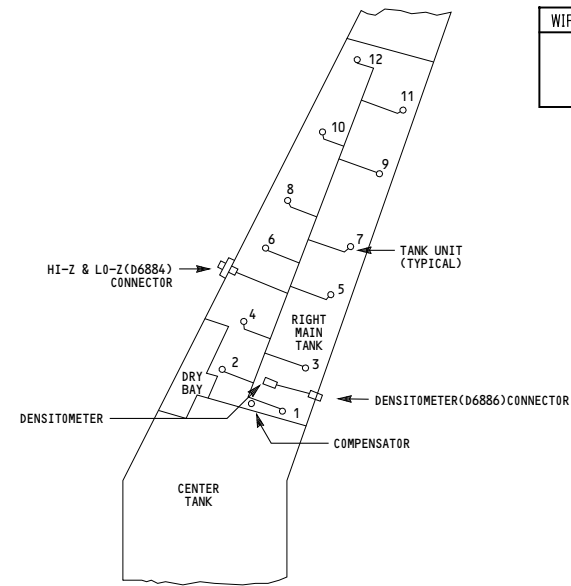
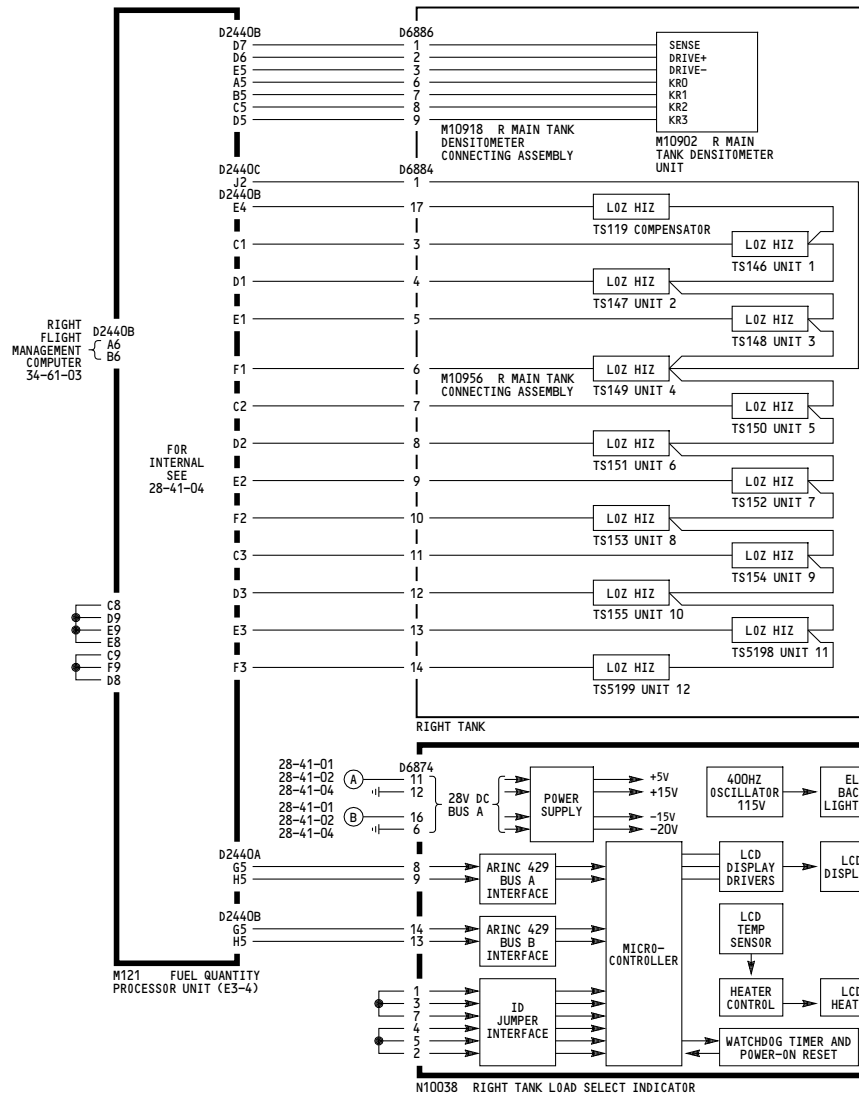
001-007

RIGHT TANK FUEL QUANTITY INDICATION

D280N032S

28-41-03

5321



WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-31	

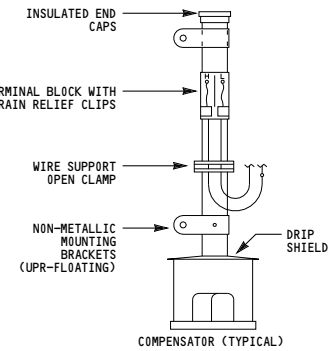
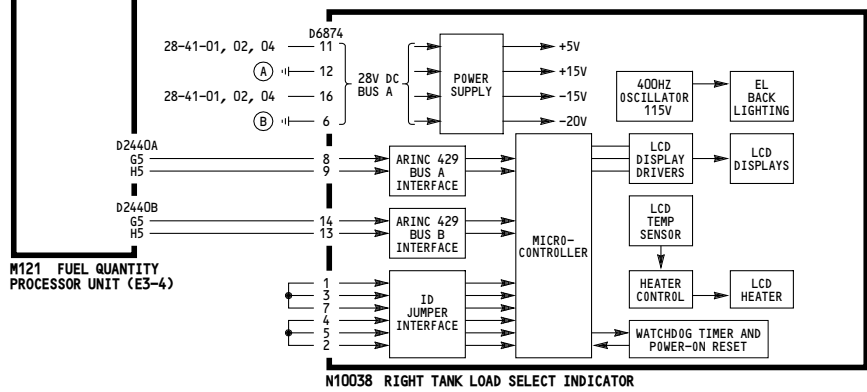
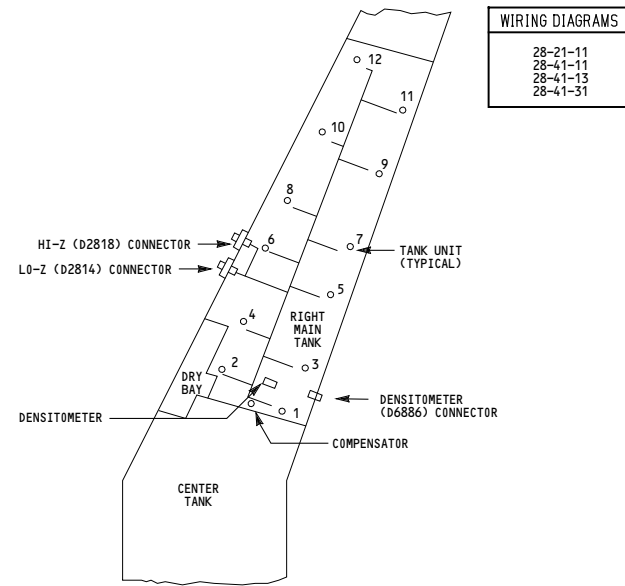
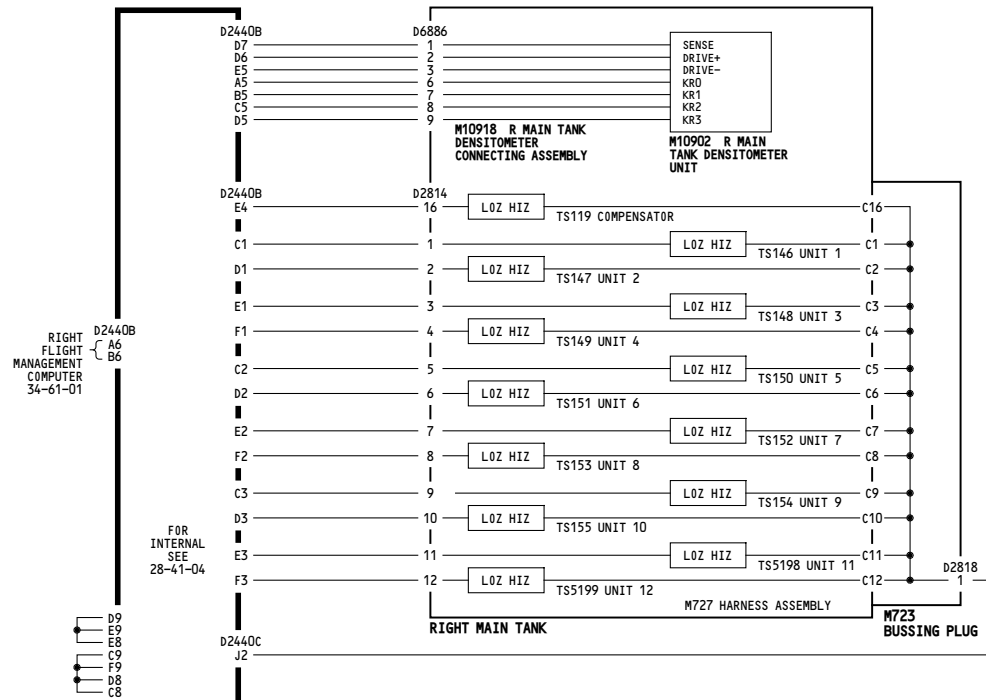
008-099	<p>RIGHT TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
---------	--

28-41-03

Page 102

Dec 18/2007

5320

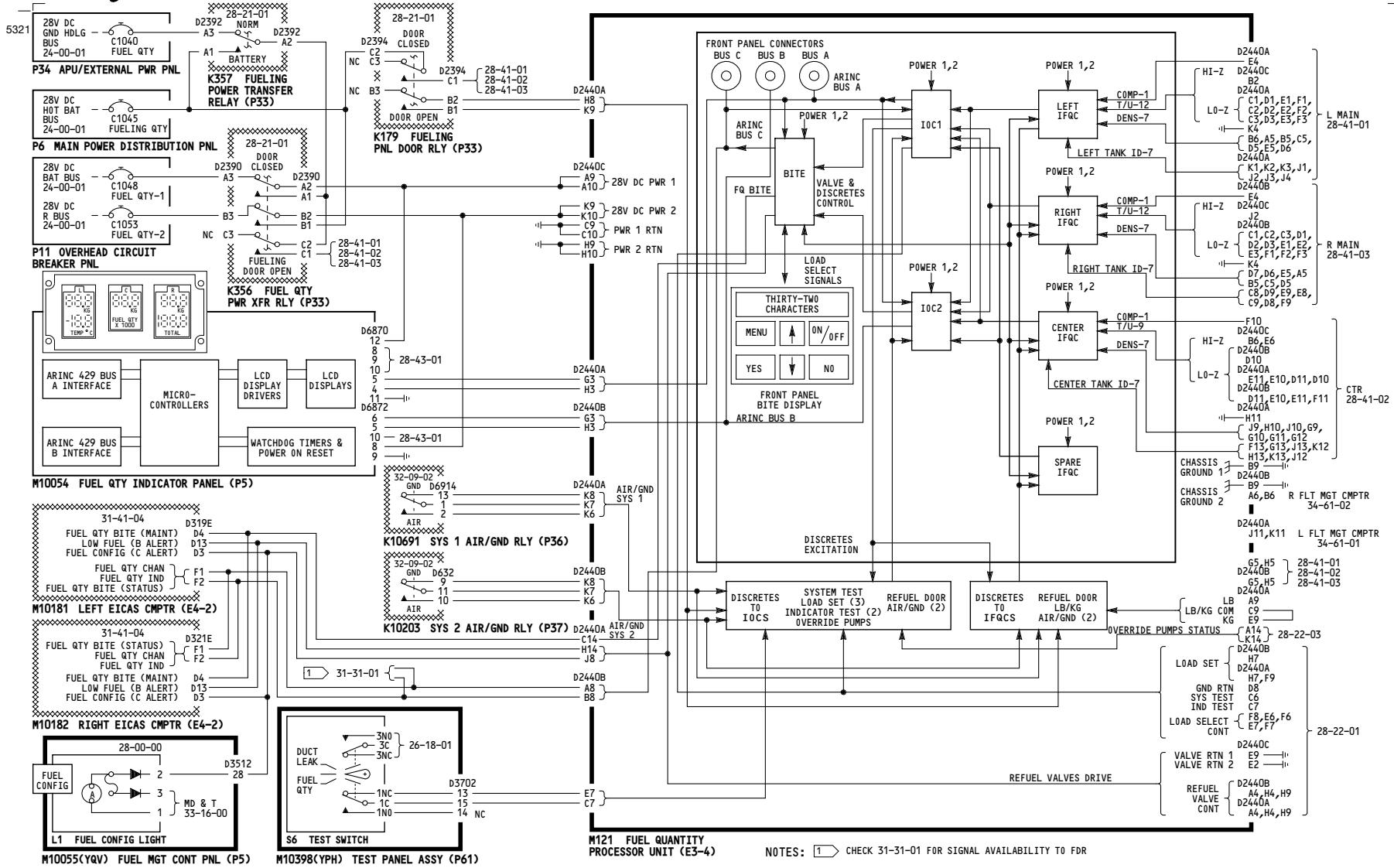


115-199

RIGHT TANK FUEL QUANTITY INDICATION

D280N032S

28-41-03



001-003, 005, 007-099, 115-199

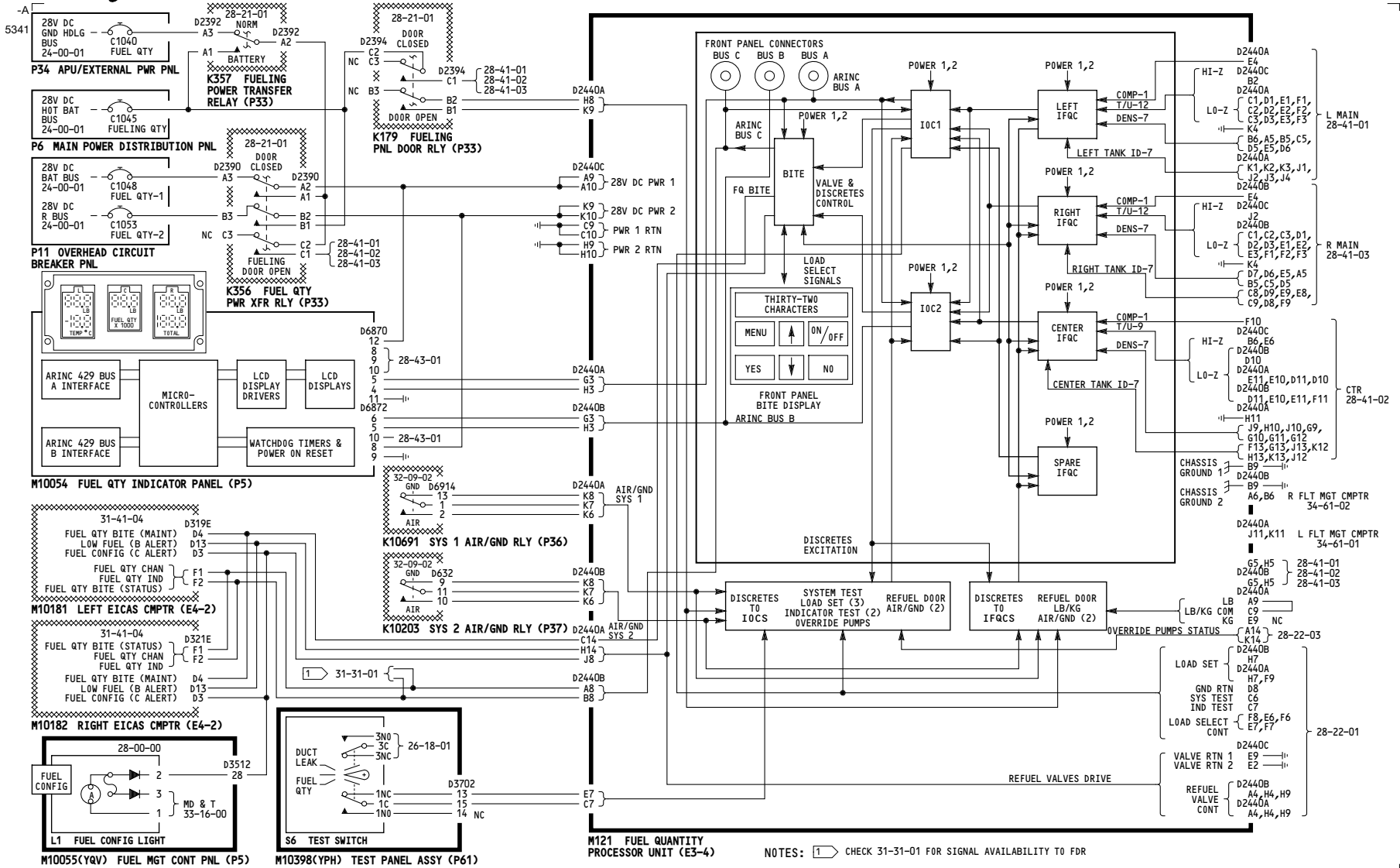
FUEL QUANTITY PROCESSOR INTERFACE

D280N032S

28-41-04

Page 101

Jan 21/2005



115

FUEL QUANTITY PROCESSOR INTERFACE

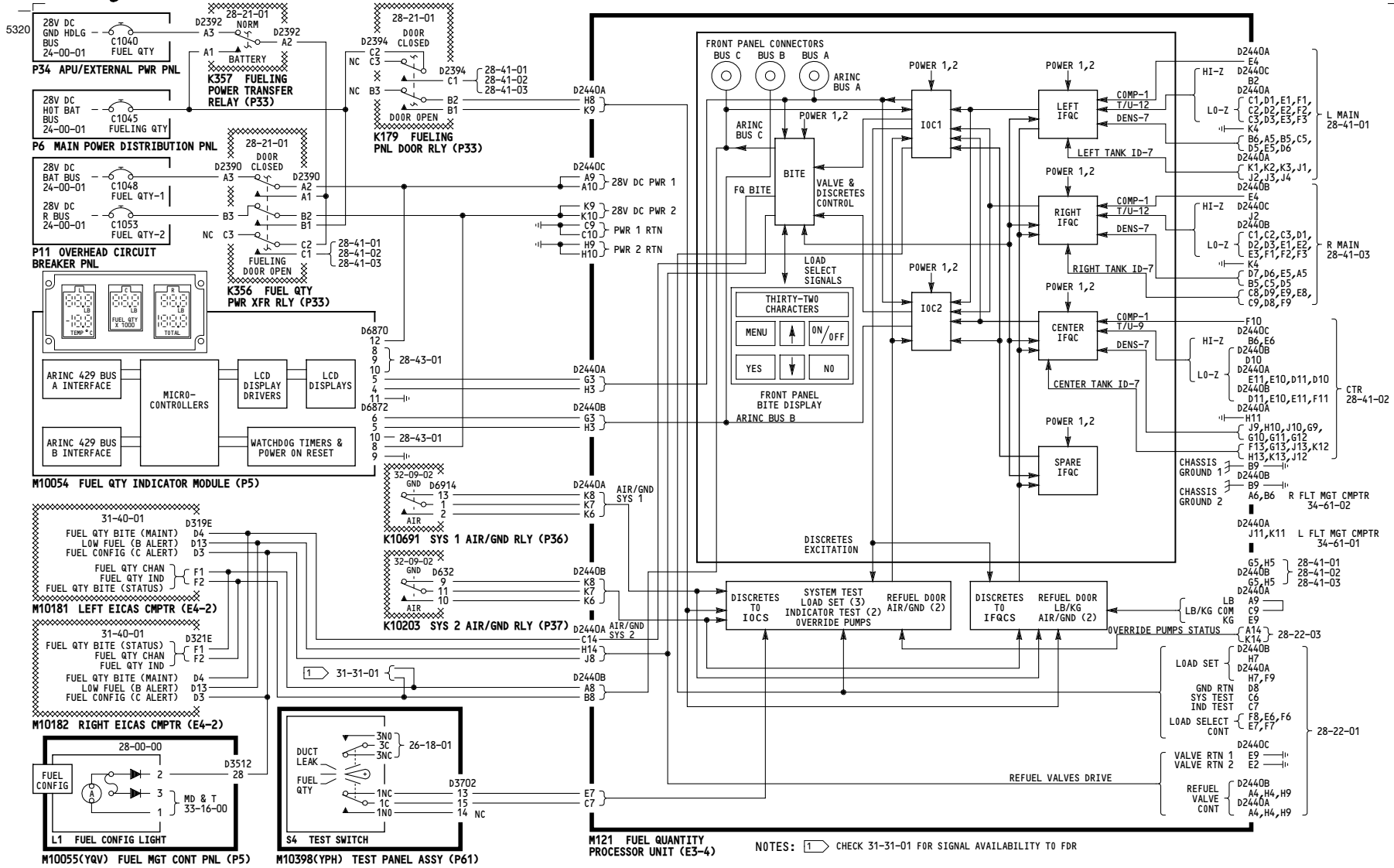
Incorporates
31-0173

D280N032S

28-41-04

Page 101.1

Dec 18/2007



004, 006

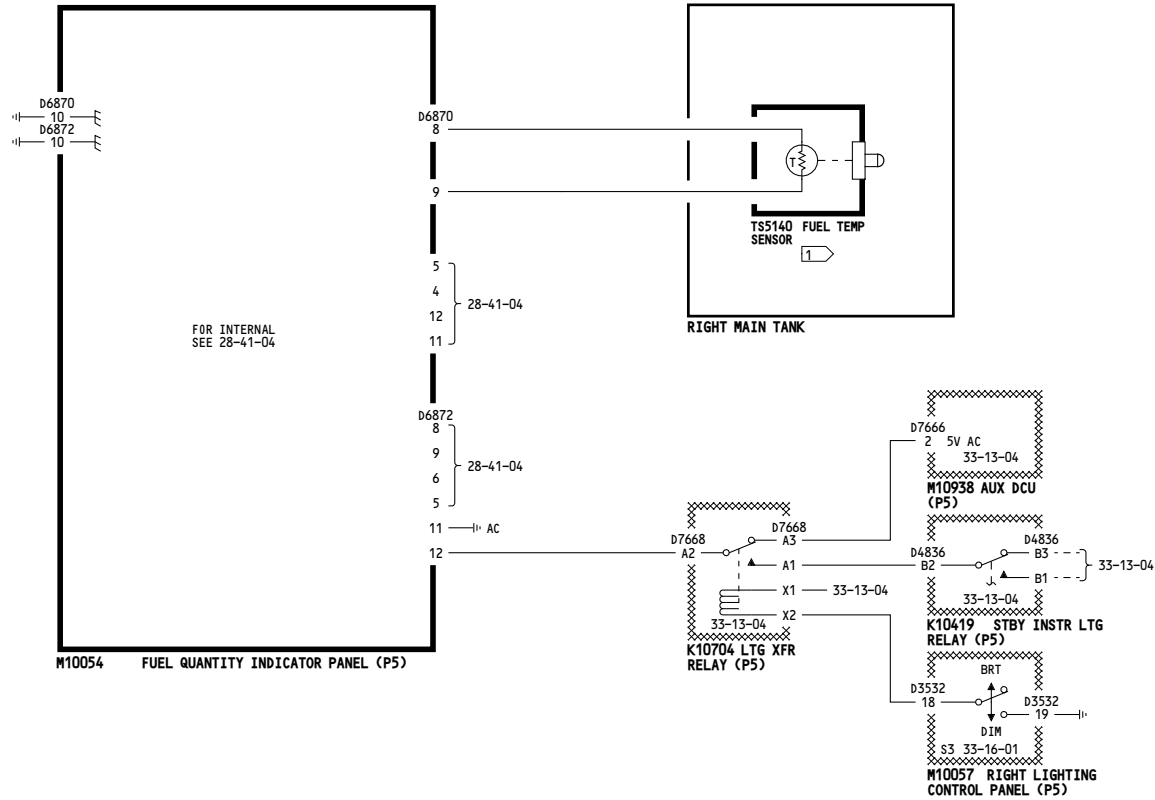
FUEL QUANTITY PROCESSOR INTERFACE

D280N032S

28-41-04

Page 102

Jan 21/2005



NOTES:

1 → FOR COMPONENT LOCATION SEE 28-00-01, SH 2

ALL	<p align="center">FUEL TEMPERATURE INDICATION</p> <p align="center">D280N032S</p>
-----	--