

CHAPTER

28

FUEL



CHAPTER 28
FUEL

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R		2		May 06/2009	D		103	1	May 06/2009
R		3		May 06/2009	D			2	May 06/2009
		4		BLANK		28-21-02			
28-ALPHABETICAL INDEX					R		101		May 06/2009
		1		Dec 18/2007		28-22-01			
		2		BLANK	R		101		May 06/2009
	28-00-00						102		Jan 21/2005
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		103		Jan 21/2005		28-22-03			
	28-00-01				R		101		May 06/2009
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R			2	May 06/2009	R			2	May 06/2009
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			2	Jan 21/2005			102.1	1	Oct 09/2008
	28-13-01							2	Oct 09/2008
R		101		May 06/2009		28-22-04			
	28-21-01				R		101		May 06/2009
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A = Added, R = Revised, D = Deleted, O = Overflow

28-EFFECTIVE PAGES



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FUEL

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
		28-22-05							
		101		Jan 21/2005	D	28-41-03 (cont.)	103		May 06/2009
		28-25-01				28-41-04			
R		101		May 06/2009	R		101		May 06/2009
		102		Jan 21/2005	R		101.1		May 06/2009
		28-26-01					102		Jan 21/2005
R		101		May 06/2009		28-43-01			
		102		Jan 21/2005	R		101		May 06/2009
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R		101		May 06/2009					
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		101		Dec 18/2007					
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		28-41-02							
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O		101.1		Oct 09/2008					
O		102		Dec 18/2007					
O		102.1		Oct 09/2008					
D		103		May 06/2009					
D		103.1		May 06/2009					
		28-41-03							
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A = Added, R = Revised, D = Deleted, O = Overflow

28-EFFECTIVE PAGES

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D280N032S



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<u>FUEL</u>						
I FUEL SYSTEM	28-00-00		101		May 06/2009	001-003 005
I			101.1		May 06/2009	001
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			103		Jan 21/2005	009-099
I WING FUEL SYSTEM	28-00-01		101	1	May 06/2009	001-008
I				2	May 06/2009	001-008
			102	1	Jan 21/2005	009-099
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<u>FUEL VENT SYSTEM</u>						
I FUEL TANK VENT SYSTEM	28-13-01		101		May 06/2009	ALL
<u>PRESSURE FUELING SYSTEM</u>						
PRESSURE FUELING	28-21-01		101	1	Jan 21/2005	001-009
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I PRESSURE FUELING OVERFILL CONTROL	28-21-02		101		May 06/2009	ALL
<u>ENGINE FUEL FEED SYSTEM</u>						
I ENGINE FUEL VALVE CONTROL	28-22-01		101		May 06/2009	001
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			103		Jan 21/2005	009-099
I ENGINE FUEL FEED SYSTEM - LEFT TANK	28-22-02		101		May 06/2009	ALL
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I	ENGINE FUEL FEED SYSTEM - CENTER TANK (cont.)	28-22-03		101.1	1	May 06/2009	001-002
					2	May 06/2009	001-002
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I	ENGINE FUEL FEED SYSTEM - RIGHT TANK	28-22-04		101		May 06/2009	ALL
	FUEL CROSSFEED VALVES	28-22-05		101		Jan 21/2005	009-099
	<u>APU FUEL FEED SYSTEM</u>						
I	APU FUEL FEED SYSTEM	28-25-01		101		May 06/2009	001
				102		Jan 21/2005	002-099
	<u>DEFUELING</u>						
I	DEFUELING	28-26-01		101		May 06/2009	001
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	<u>INDICATING</u>						
I	FUEL - EICAS WARNING	28-40-01		101		May 06/2009	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
	CENTER TANK FUEL QUANTITY INDICATION	28-41-02		101		Dec 18/2007	001-007
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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
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■ FUEL QUANTITY PROCESSOR INTERFACE	28-41-04		101		May 06/2009	001-003 005 007-099
■			101.1		May 06/2009	001
			102		Jan 21/2005	004 006
<u>FUEL TEMPERATURE INDICATING SYSTEM</u>						
■ FUEL TEMPERATURE INDICATION	28-43-01		101		May 06/2009	ALL

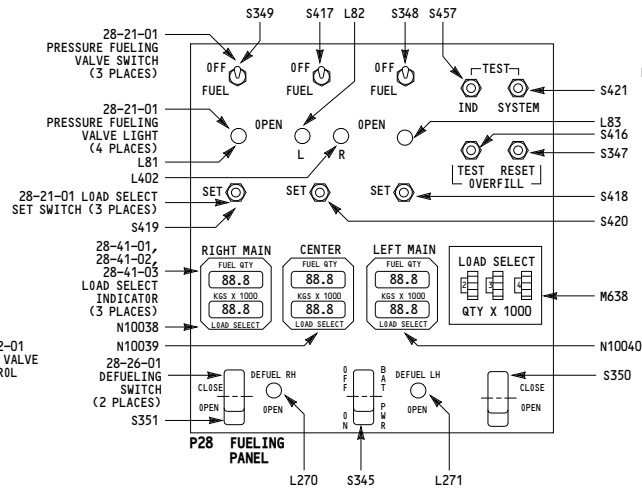
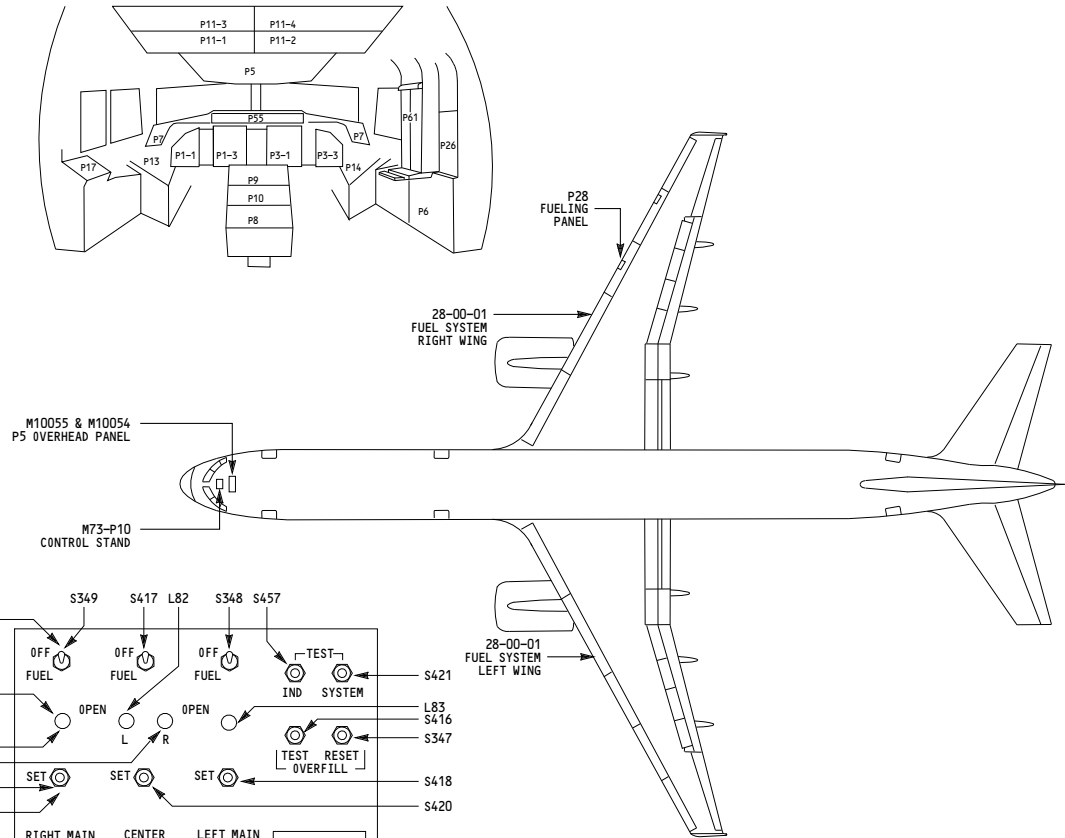
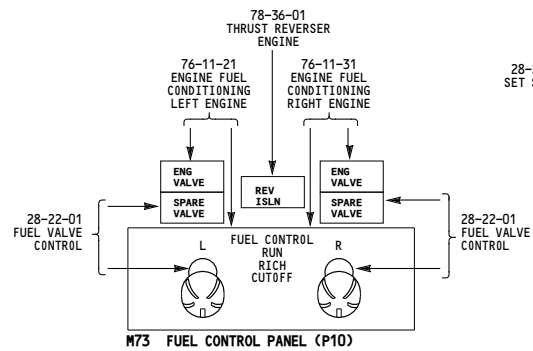
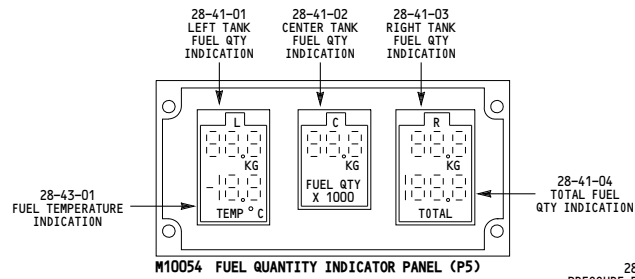
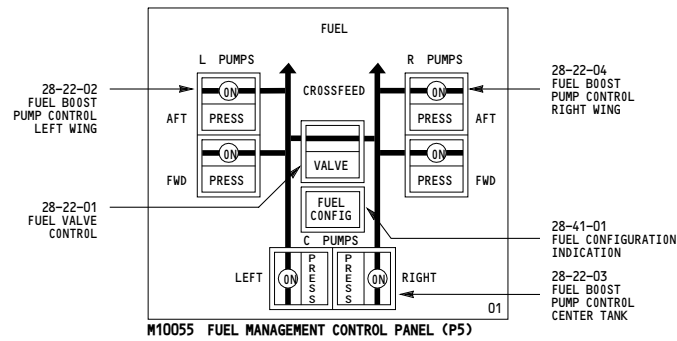
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CH-SC-SU	Title
28-25-01	APU FUEL FEED SYSTEM
28-41-02	CENTER TANK FUEL QUANTITY INDICATION
28-26-01	DEFUELING
28-22-03	ENGINE FUEL FEED SYSTEM - CENTER TANK
28-22-02	ENGINE FUEL FEED SYSTEM - LEFT TANK
28-22-04	ENGINE FUEL FEED SYSTEM - RIGHT TANK
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

FUEL SYSTEM

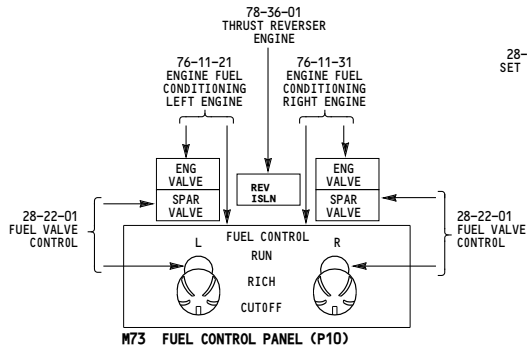
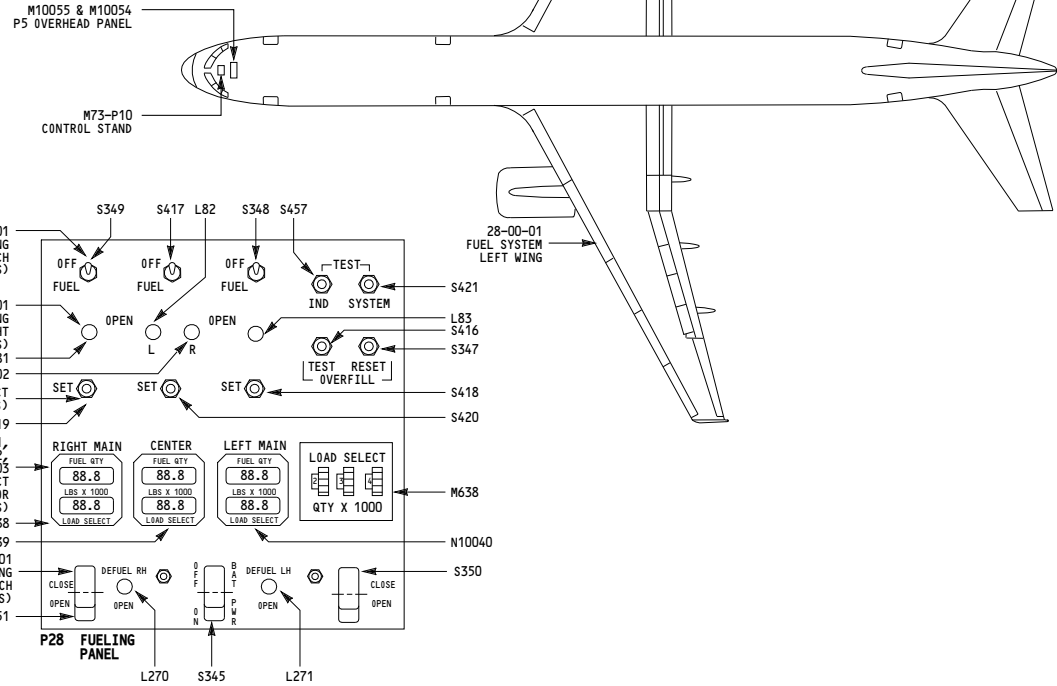
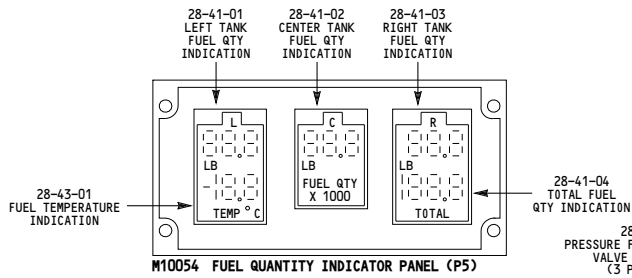
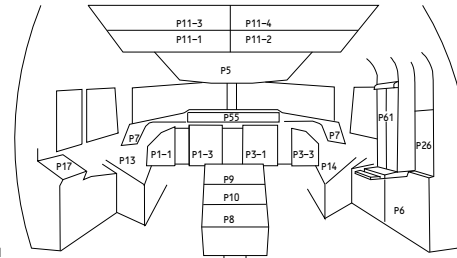
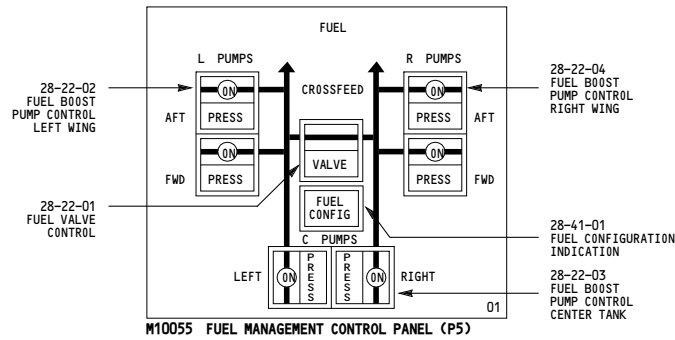
D280N032S

28-00-00

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May 06/2009

-A
5012



001	FUEL SYSTEM
	D280N032S

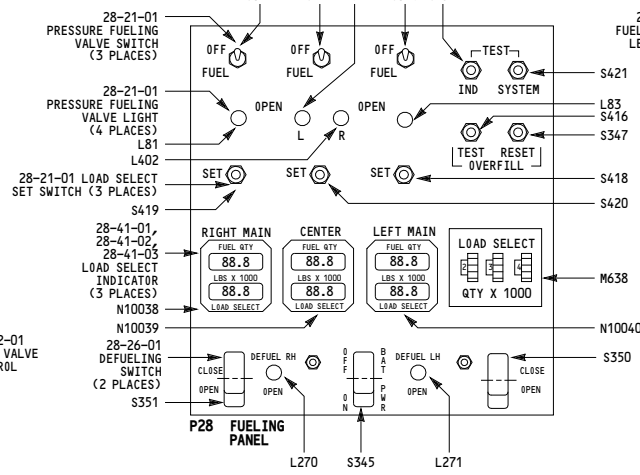
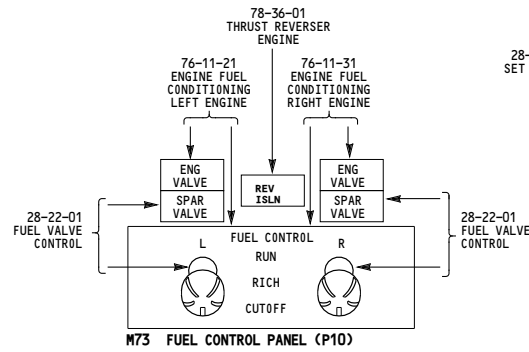
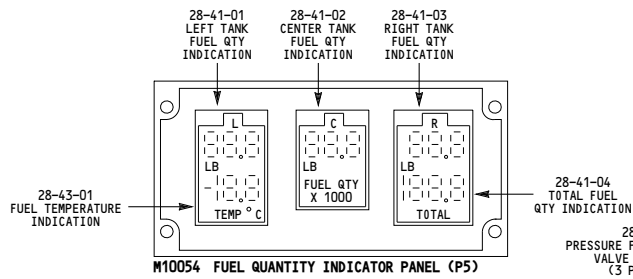
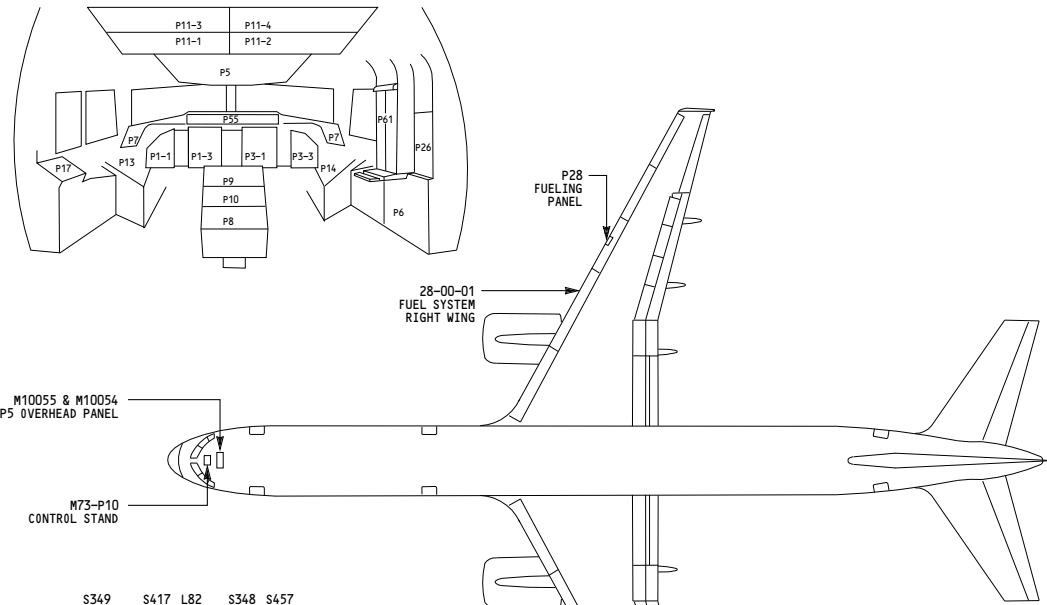
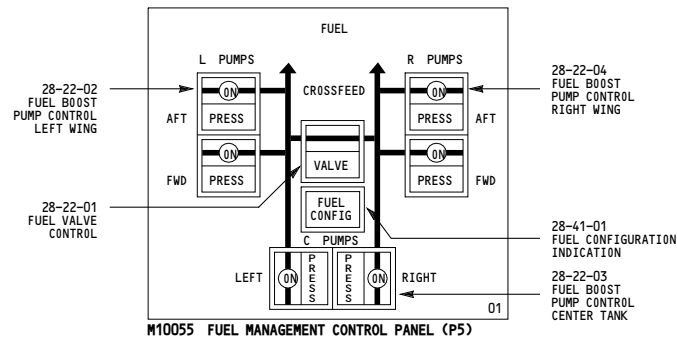
Incorporates
31-0173 R02

28-00-00

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May 06/2009

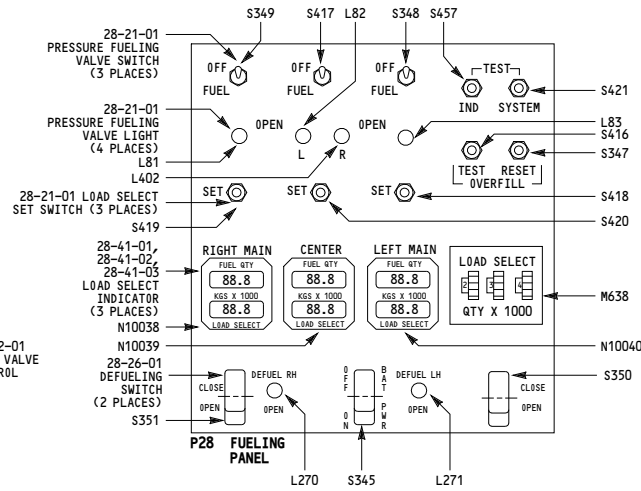
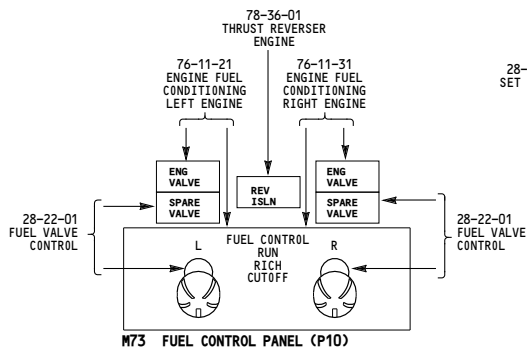
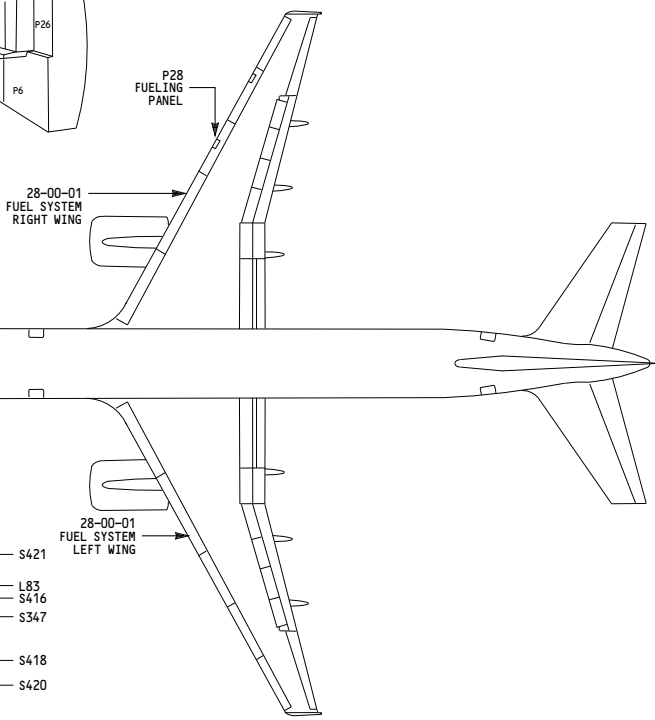
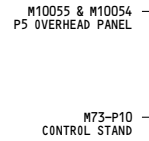
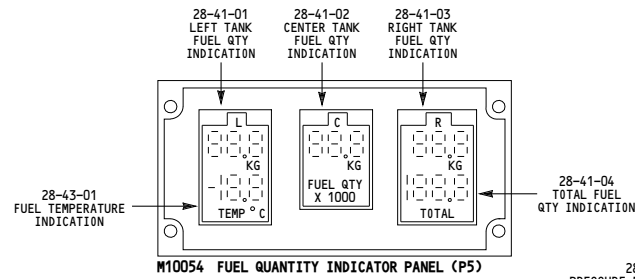
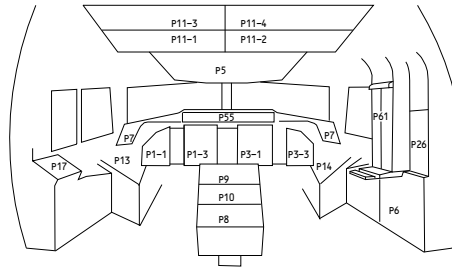
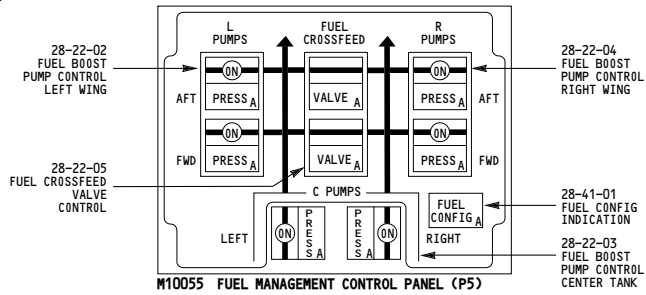
-A-
5012



004, 006-008	FUEL SYSTEM
	D280N032S

28-00-00

5016



009-099	<p align="center">FUEL SYSTEM</p> <p align="center">D280N032S</p>
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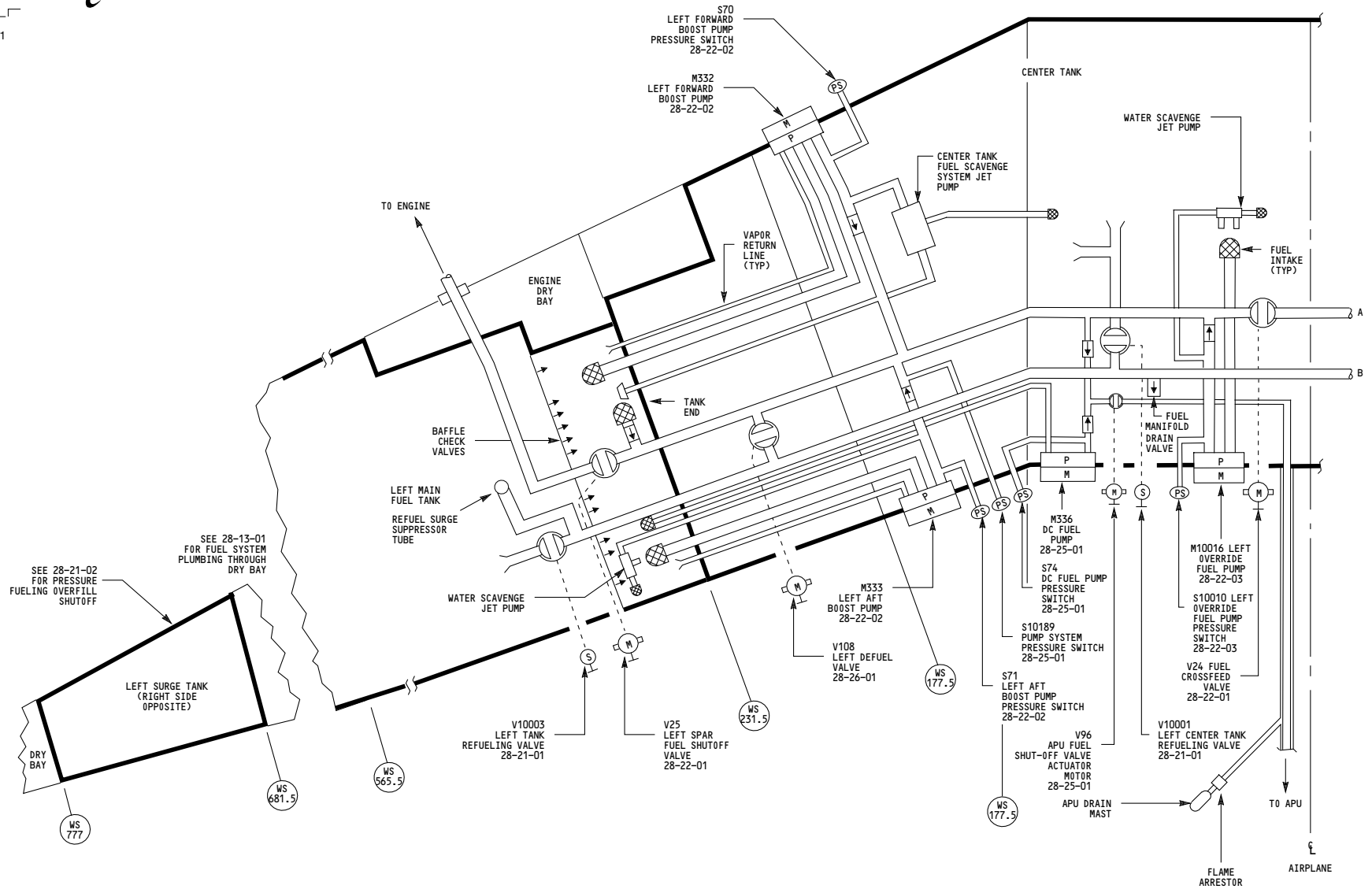
28-00-00

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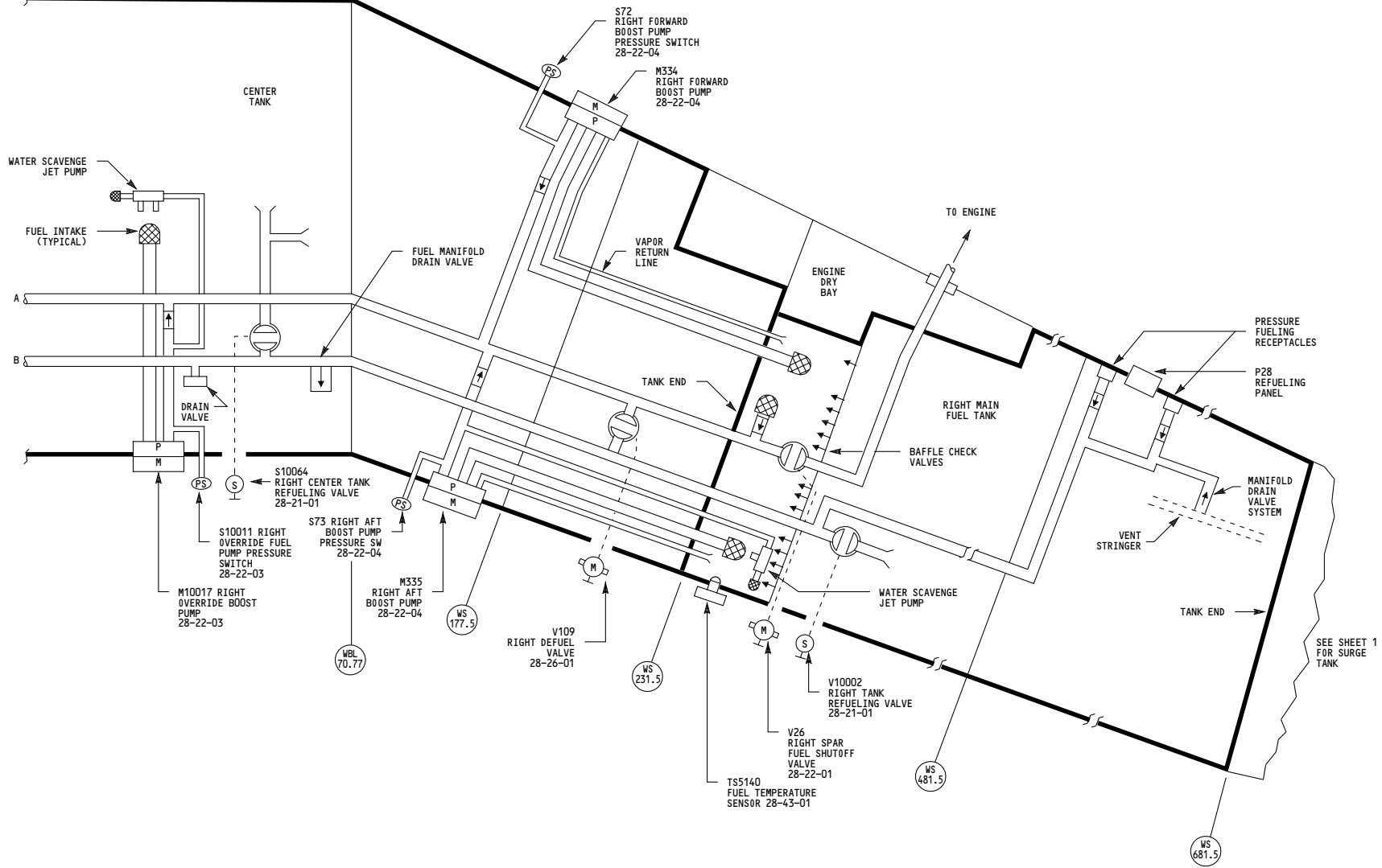
5311



001-008	WING FUEL SYSTEM
D280N032S	

28-00-01

5300

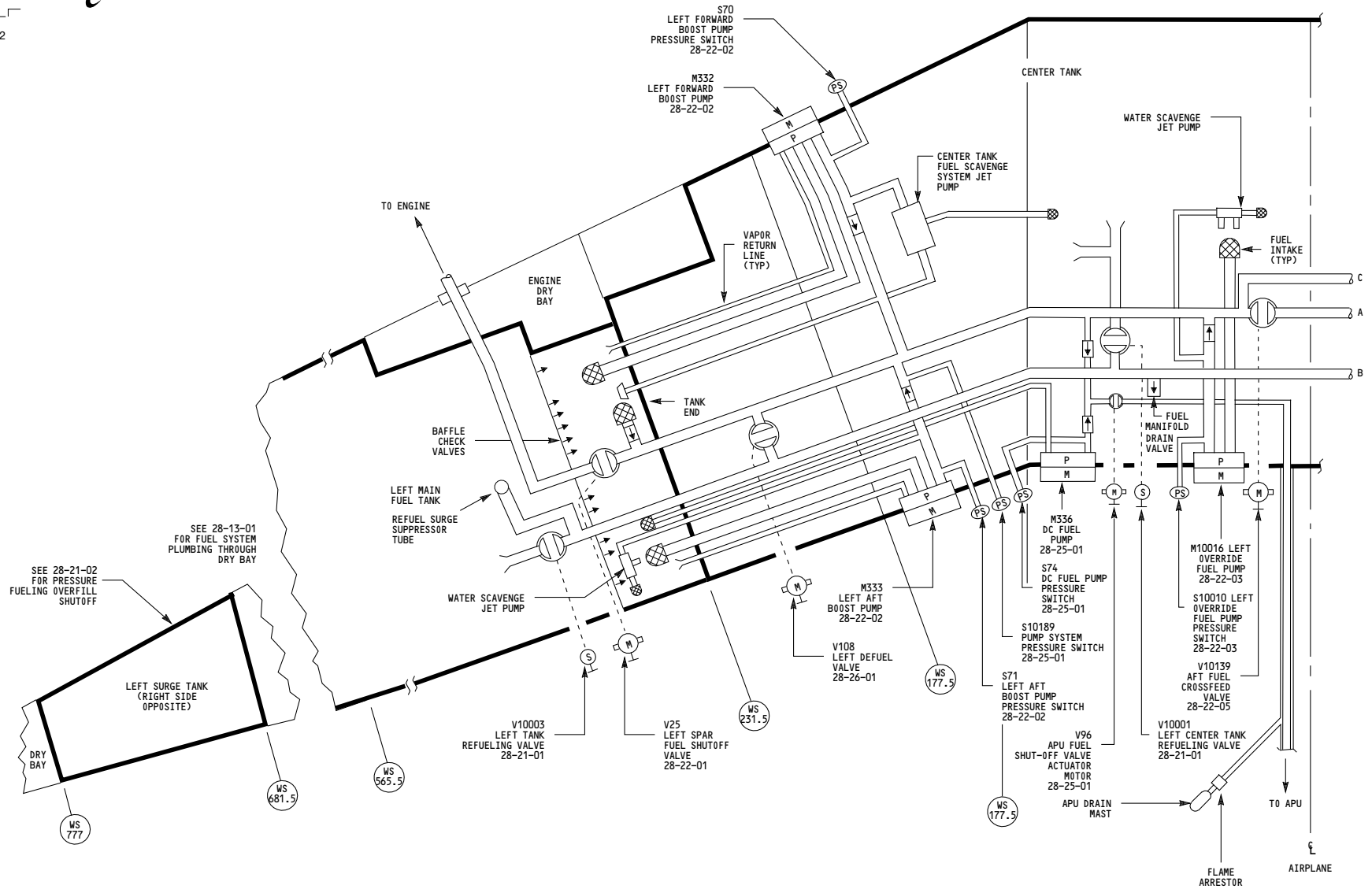


001-008	<p align="center">WING FUEL SYSTEM</p> <p align="center">D280N032S</p>
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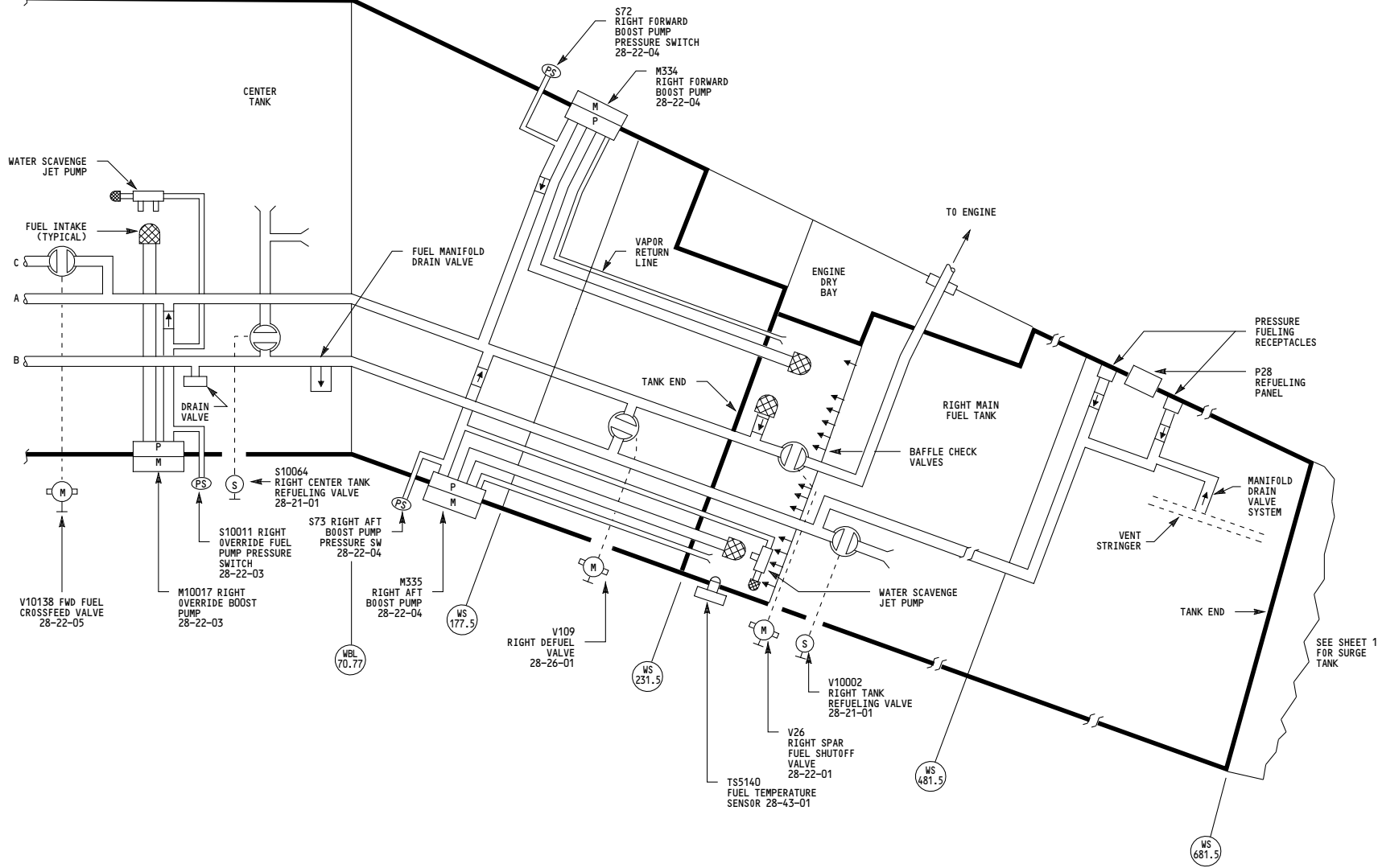


<p>009-099</p>	<p>WING FUEL SYSTEM</p> <p>D280N032S</p>
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5301



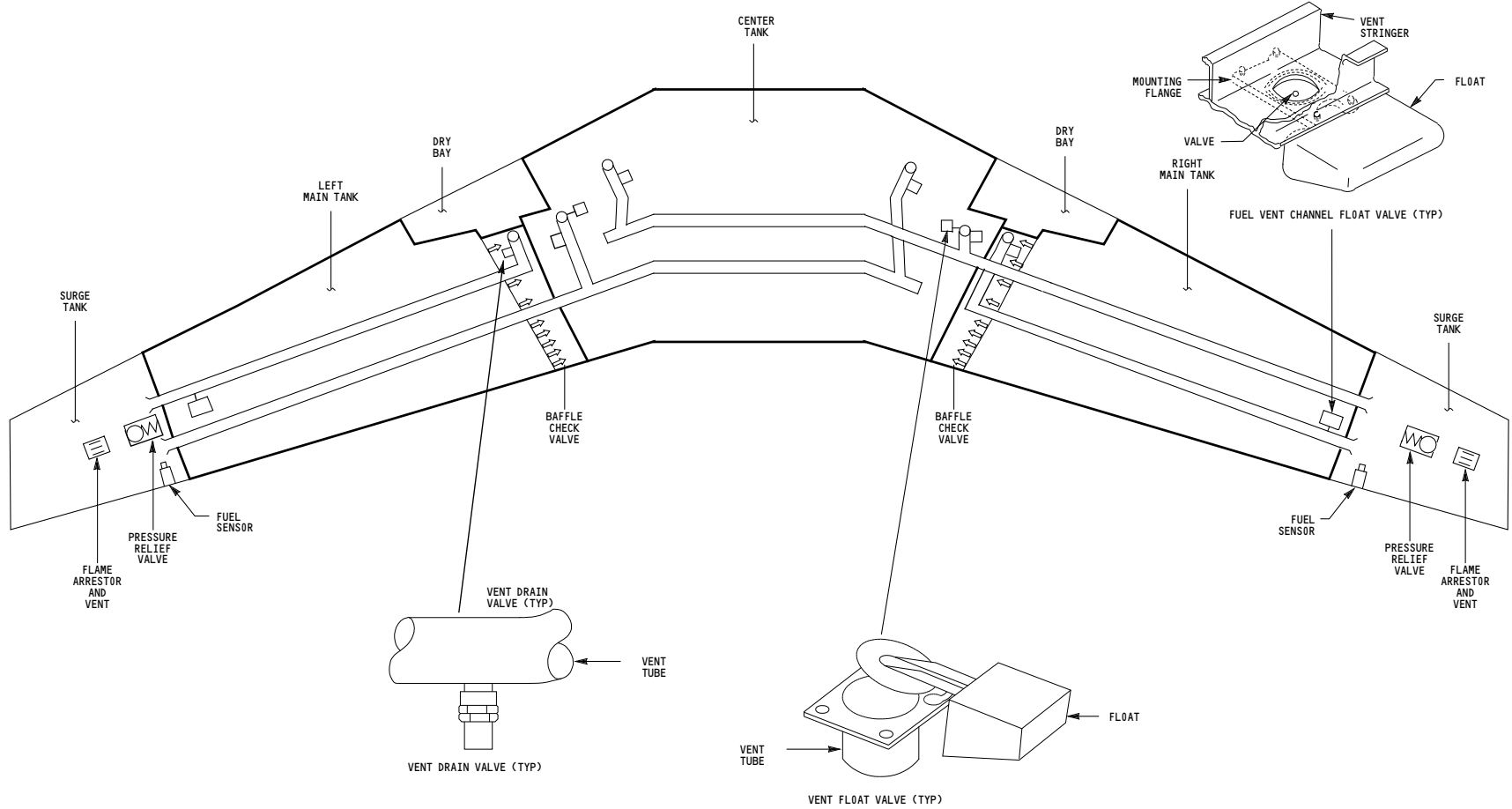
SEE SHEET 1 FOR SURGE TANK

009-099	<p align="center">WING FUEL SYSTEM</p> <p align="center">D280N032S</p>
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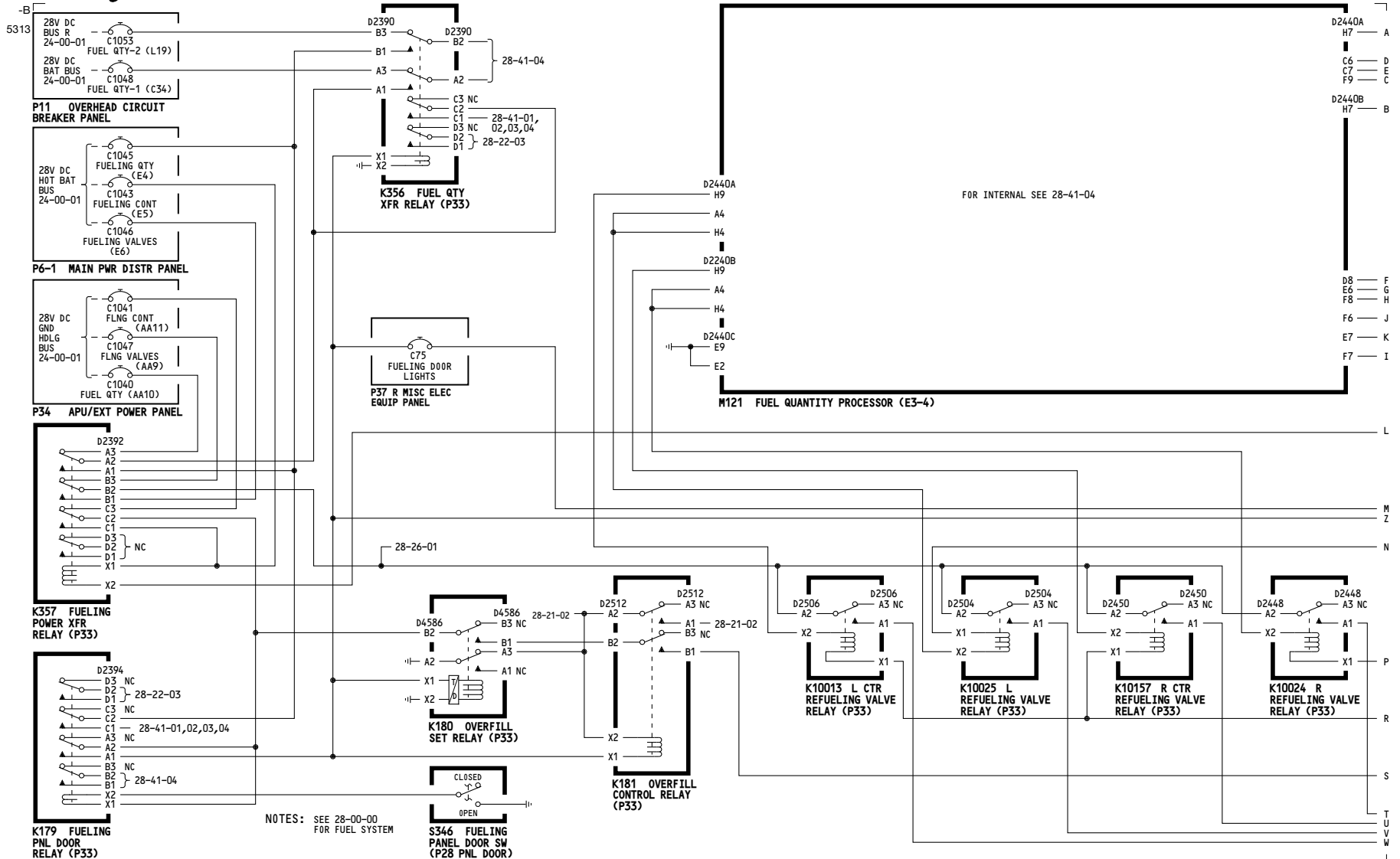
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28-13-01

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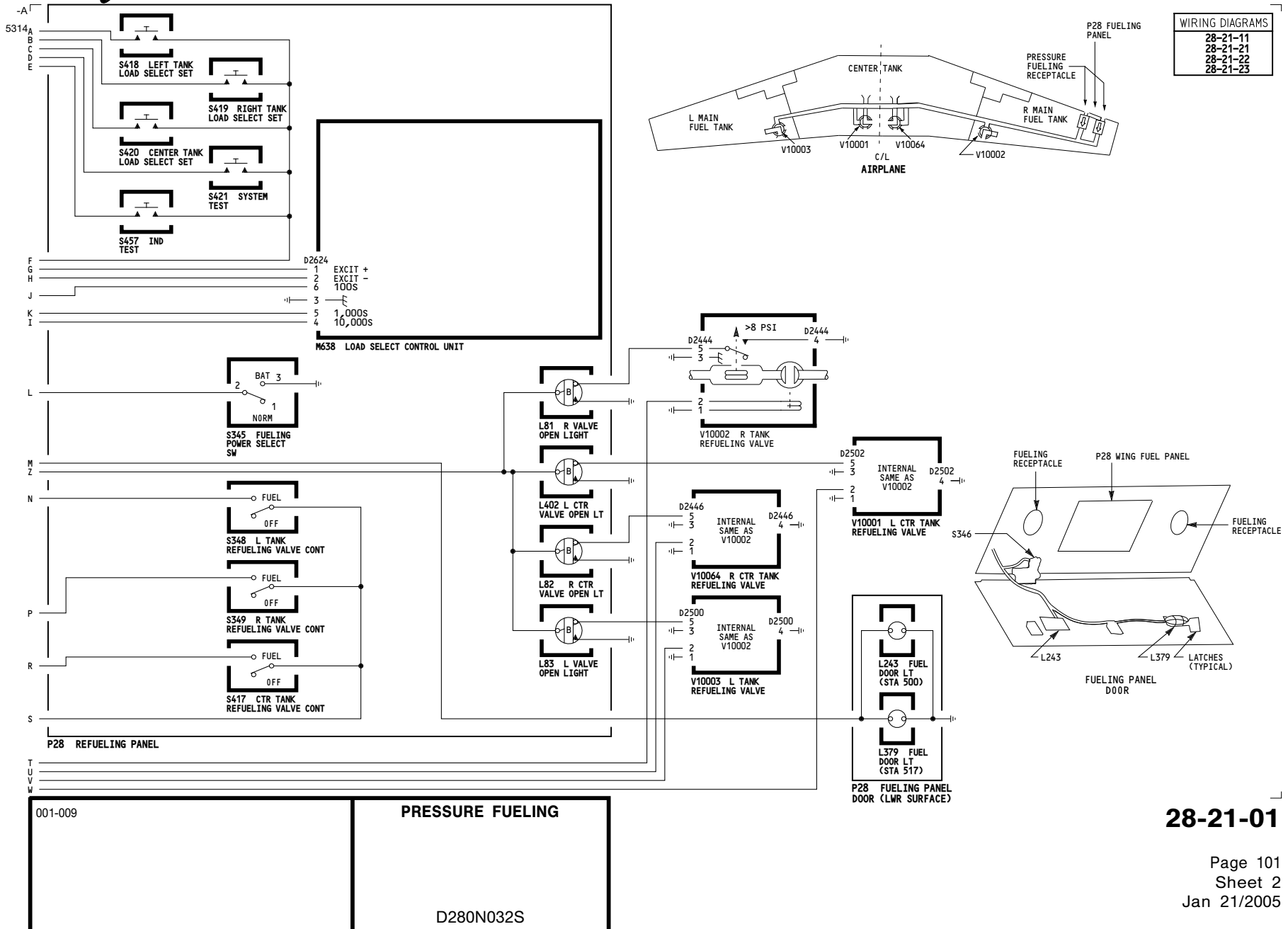


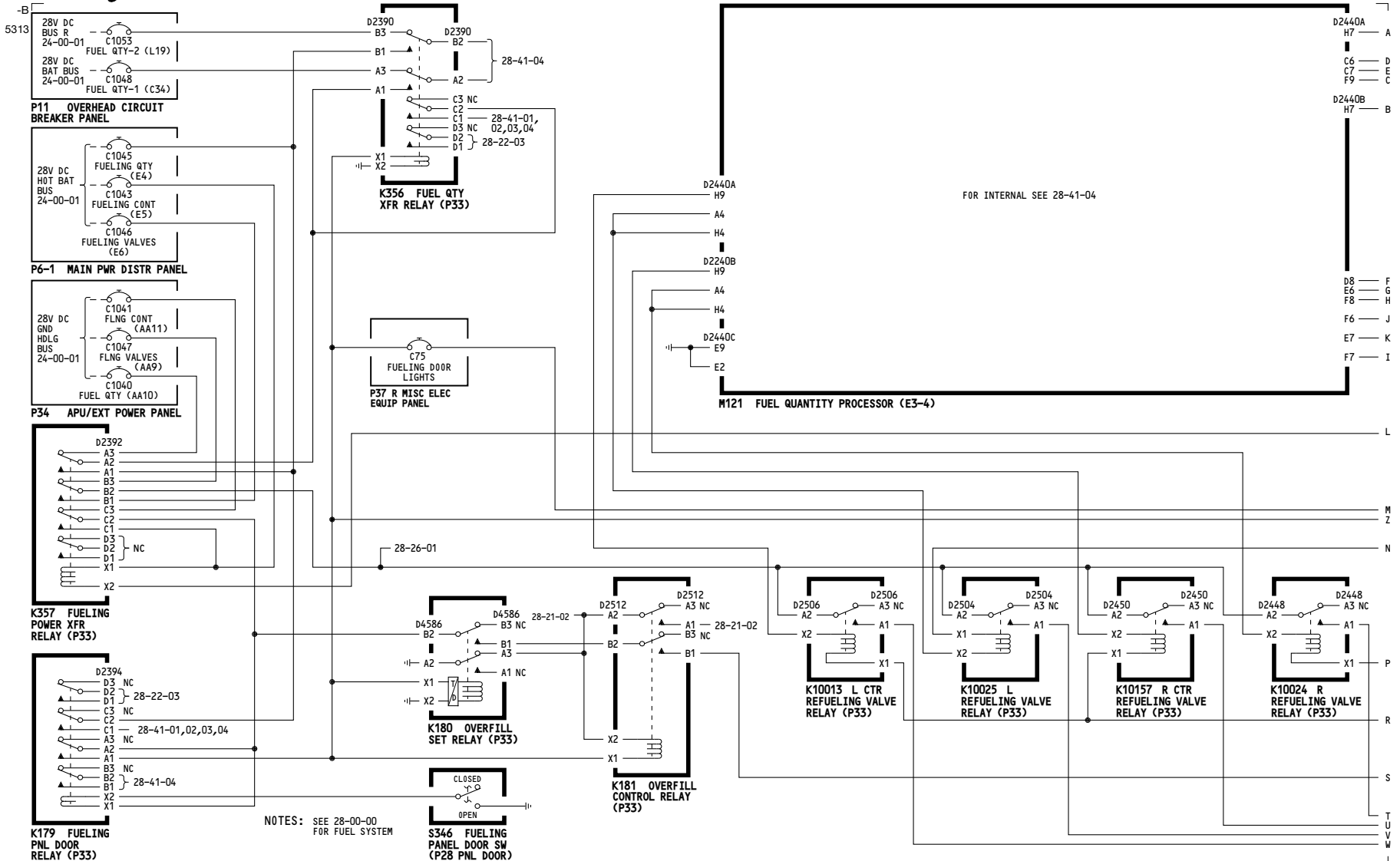
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PRESSURE FUELING

D280N032S

28-21-01





NOTES: SEE 28-00-00 FOR FUEL SYSTEM

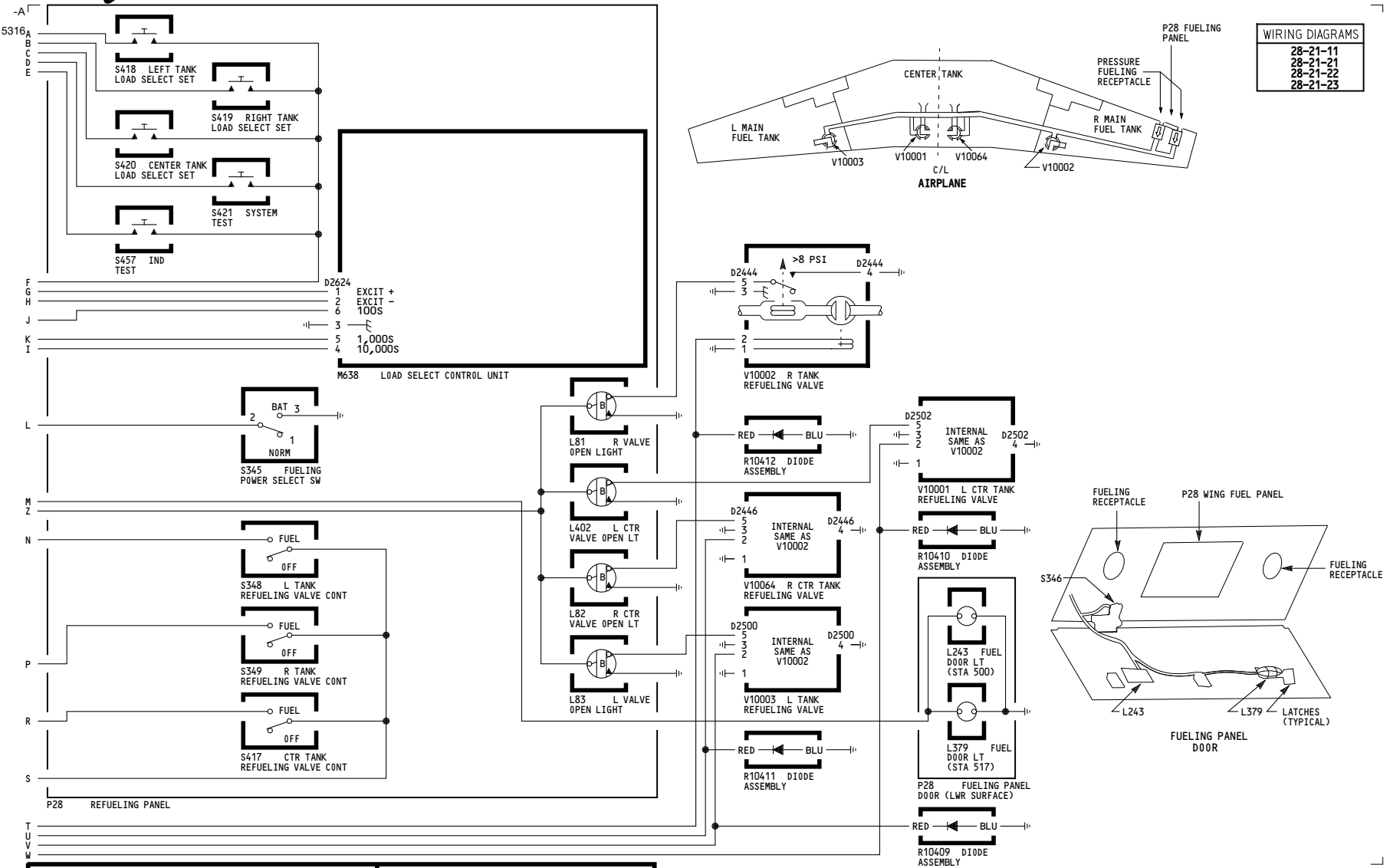
010-099

PRESSURE FUELING

D280N032S

28-21-01

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



010-099

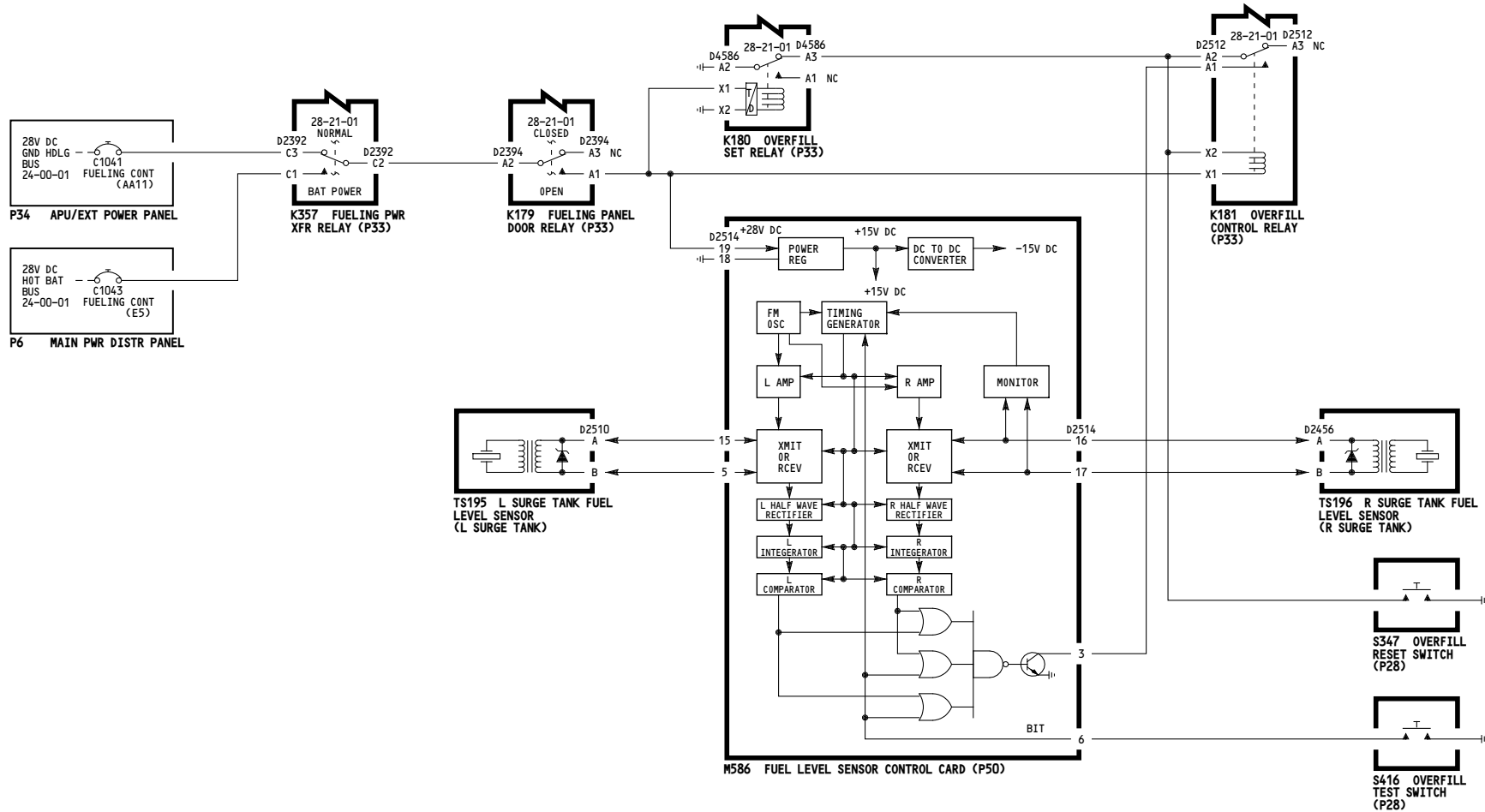
PRESSURE FUELING

D280N032S

28-21-01

5300

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

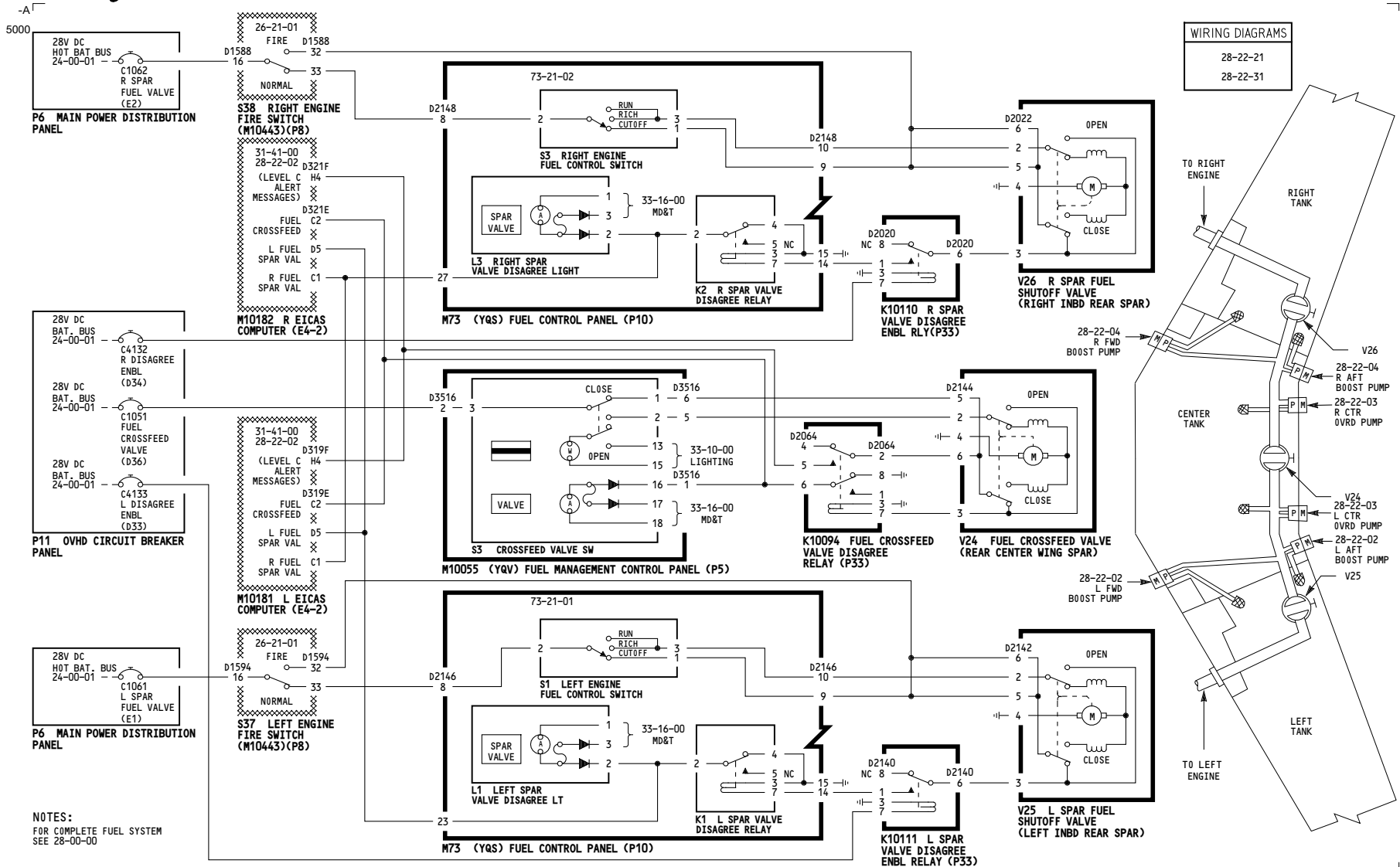


ALL	PRESSURE FUELING OVERFILL CONTROL
	D280N032S

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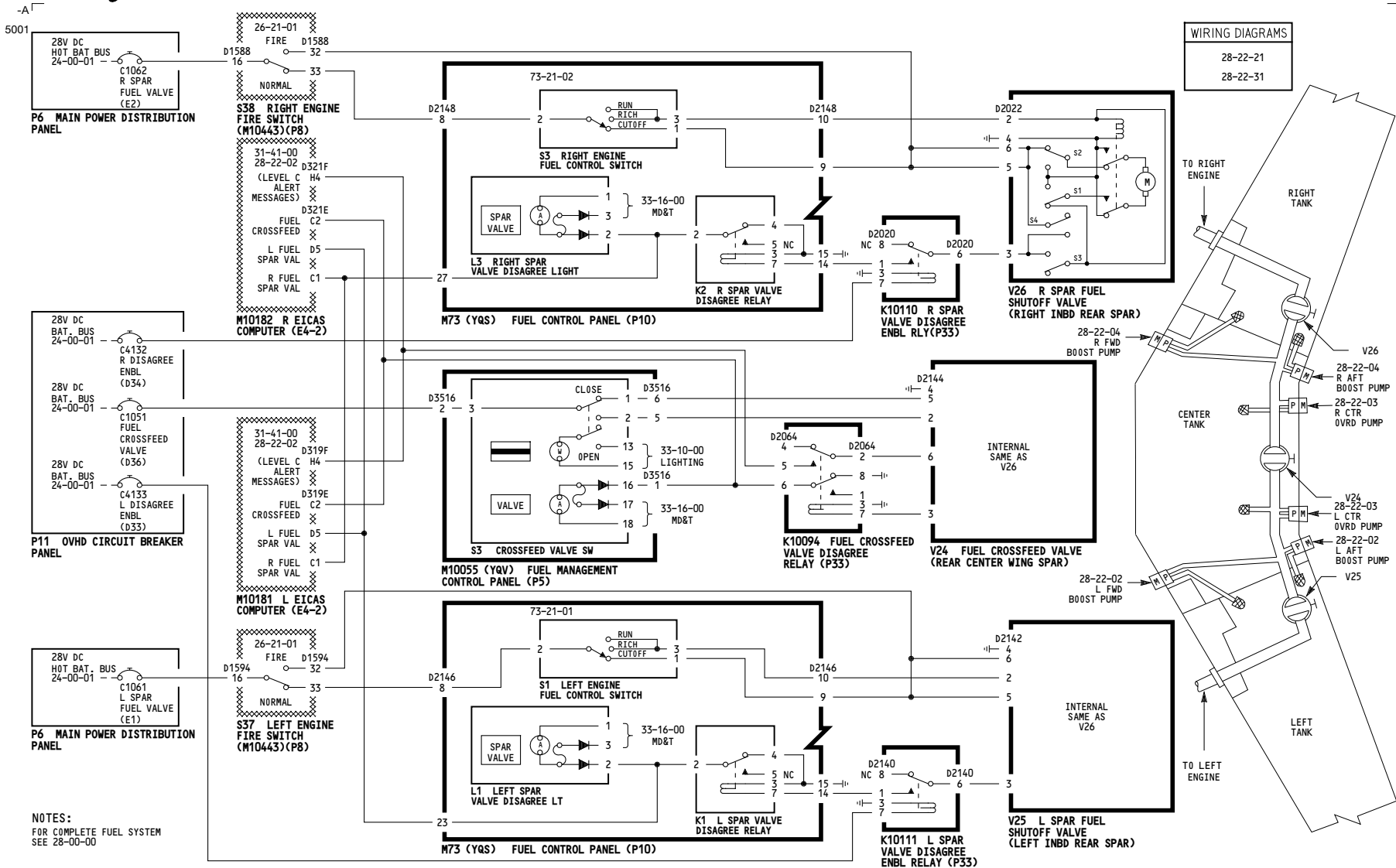


WIRING DIAGRAMS
28-22-21
28-22-31

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

001	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

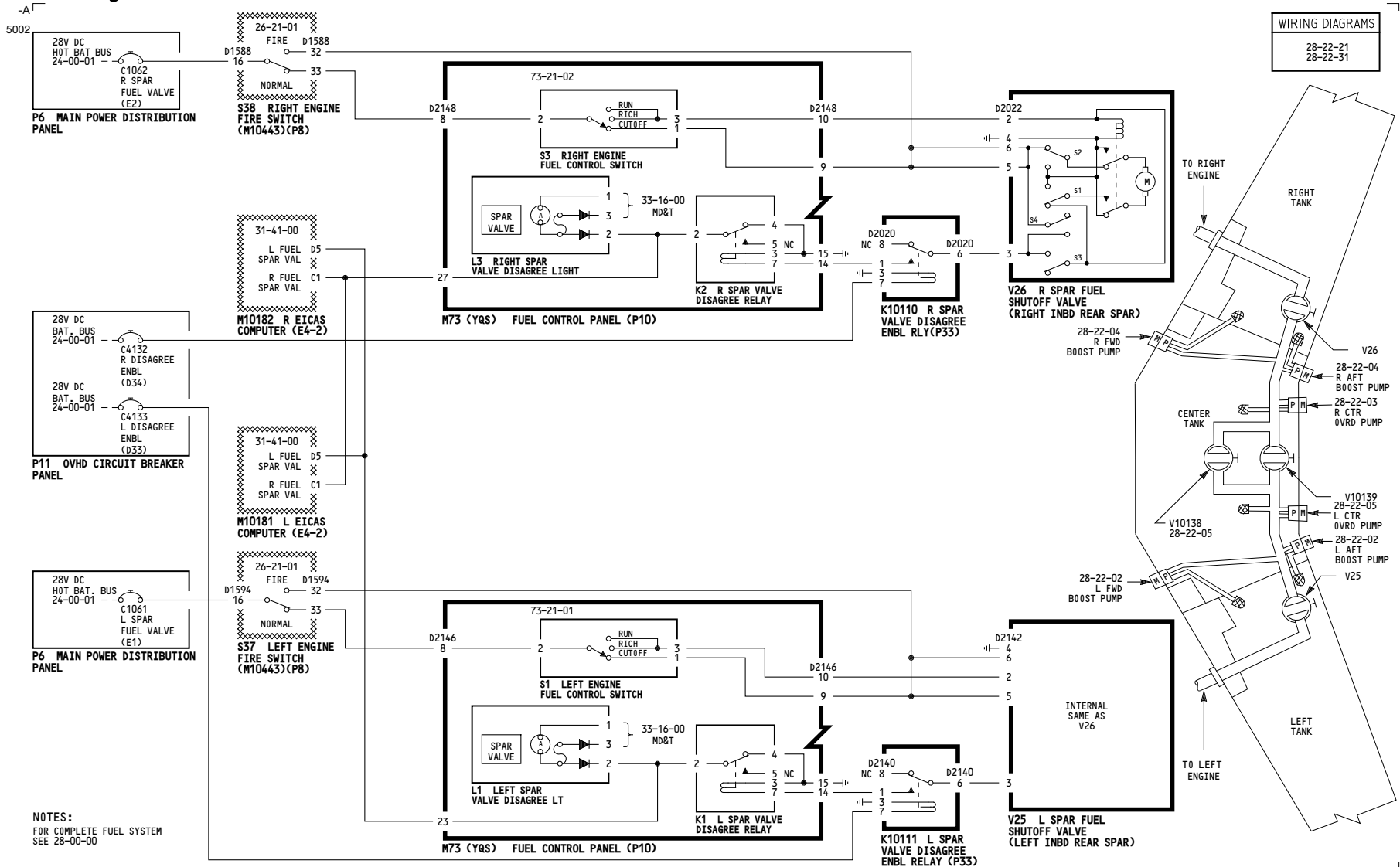
ENGINE FUEL VALVE CONTROL

D280N032S

28-22-01

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

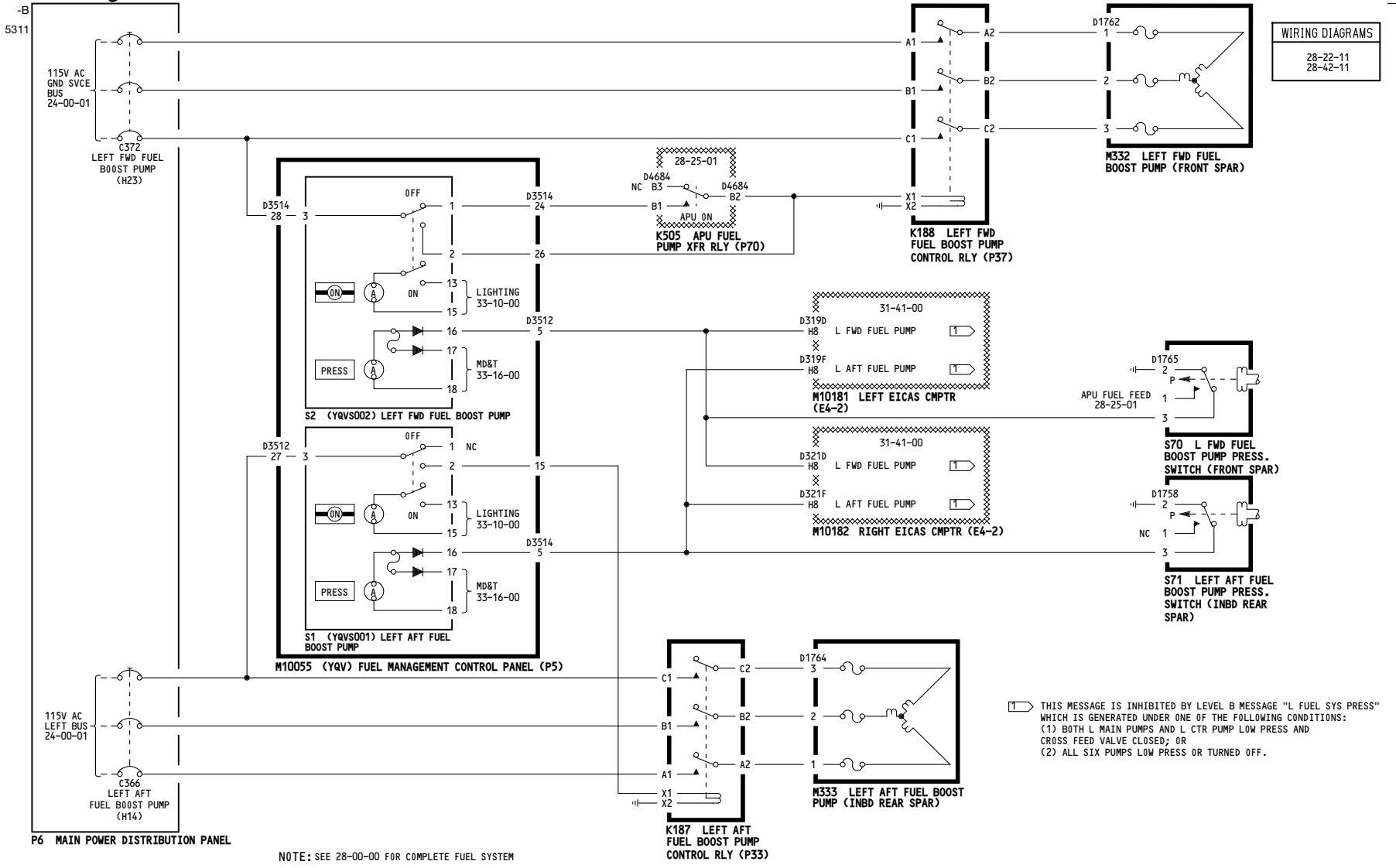
NOTES:
FOR COMPLETE FUEL SYSTEM
SEE 28-00-00

009-099

ENGINE FUEL VALVE CONTROL

D280N032S

28-22-01



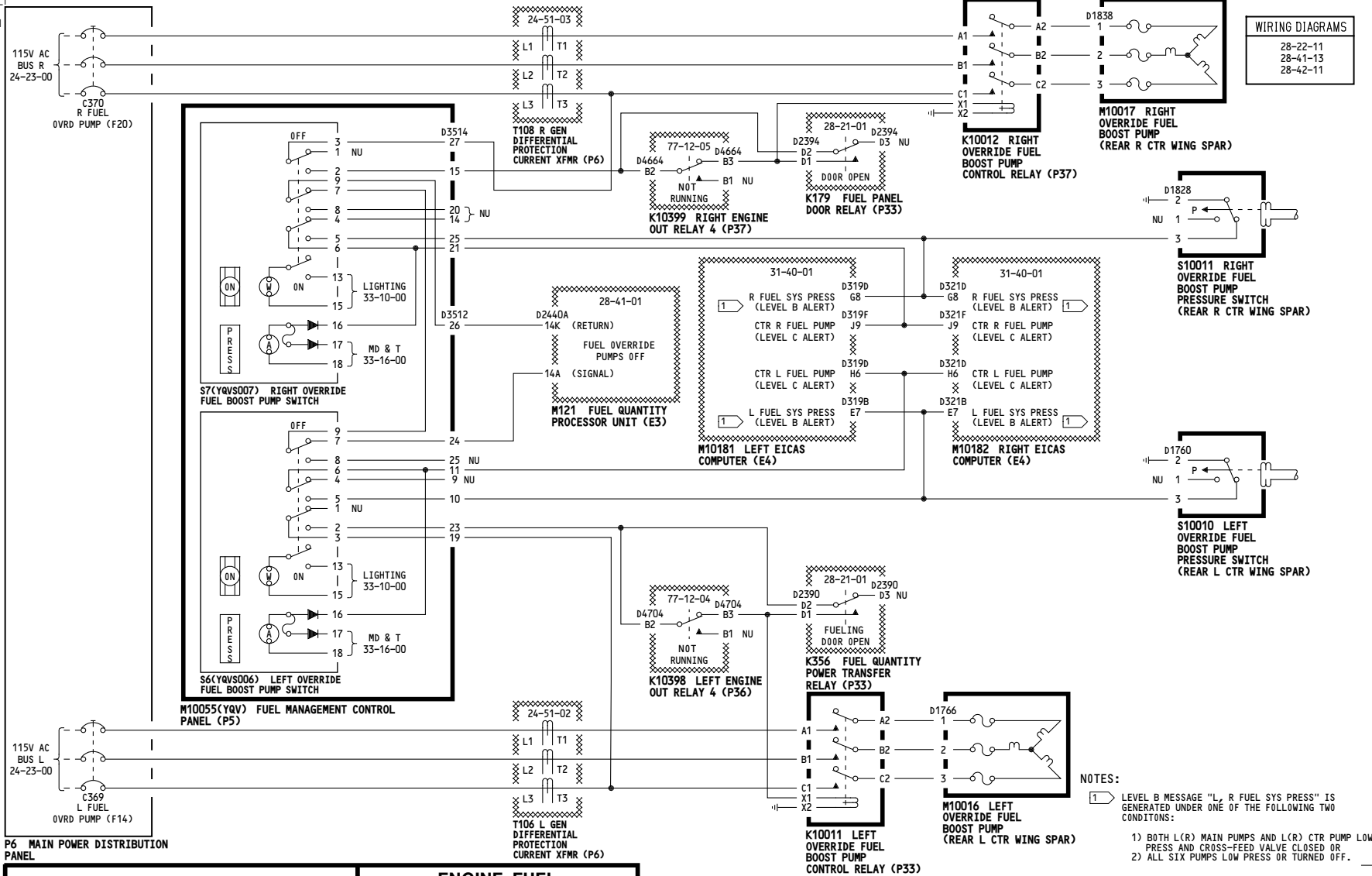
ALL	ENGINE FUEL FEED SYSTEM - LEFT TANK D280N032S
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28-22-02

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

001-002

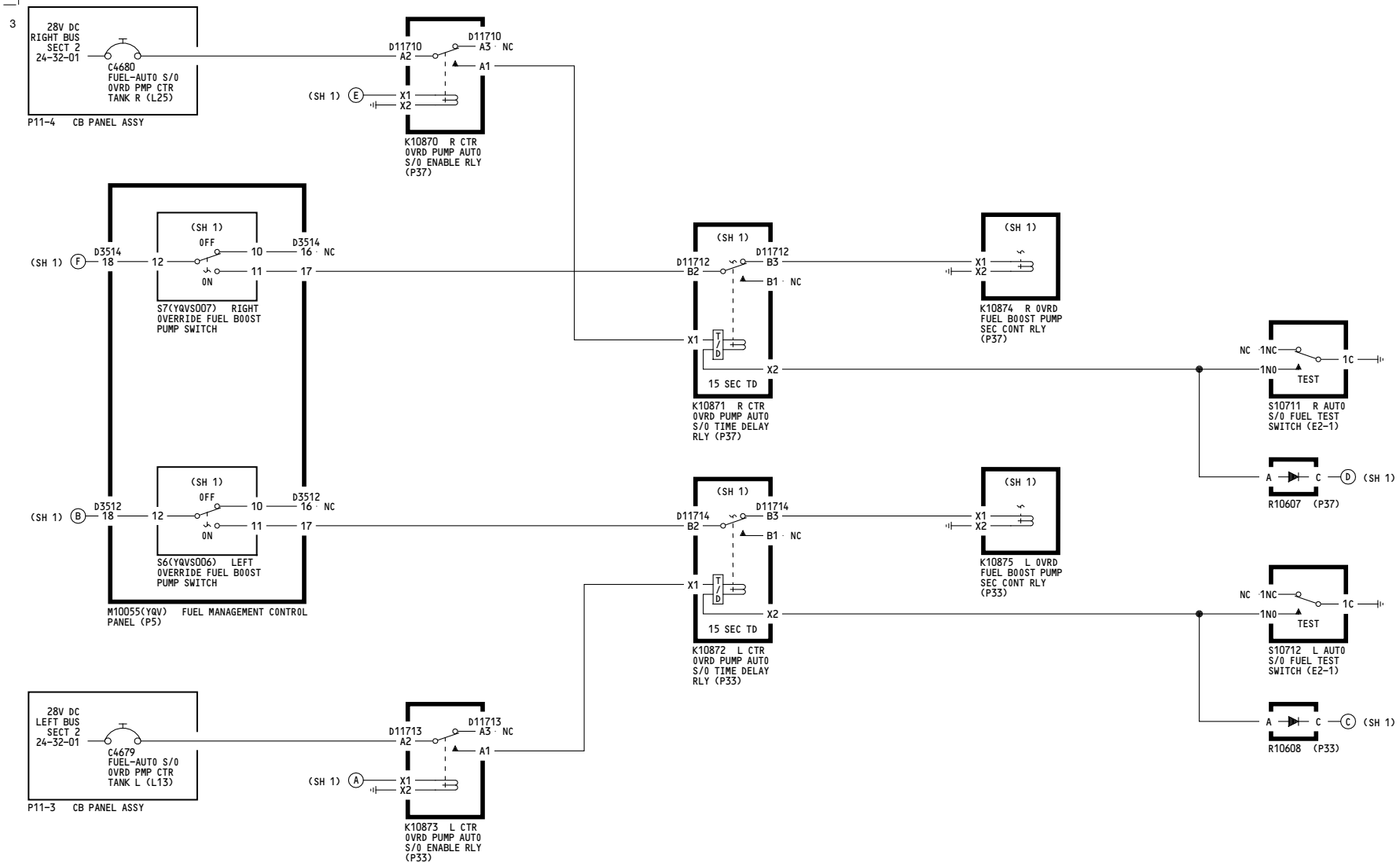
ENGINE FUEL FEED SYSTEM - CENTER TANK

D280N032S

28-22-03

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001-002

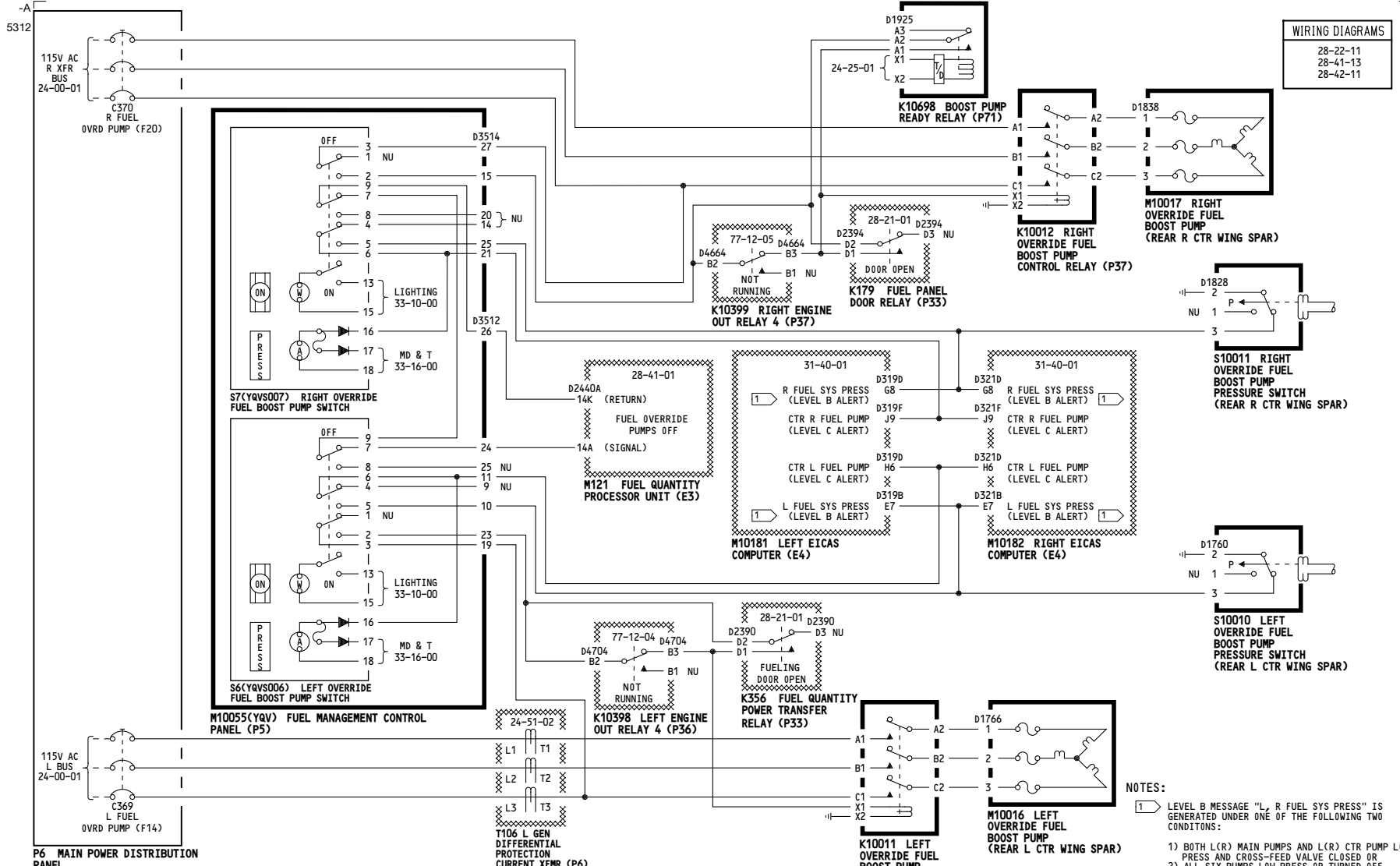
**ENGINE FUEL
FEED SYSTEM - CENTER TANK**

- Incorporates
- ▶ 28A0081
 - ▶ 28A0105 R01

D280N032S

28-22-03

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May 06/2009



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.

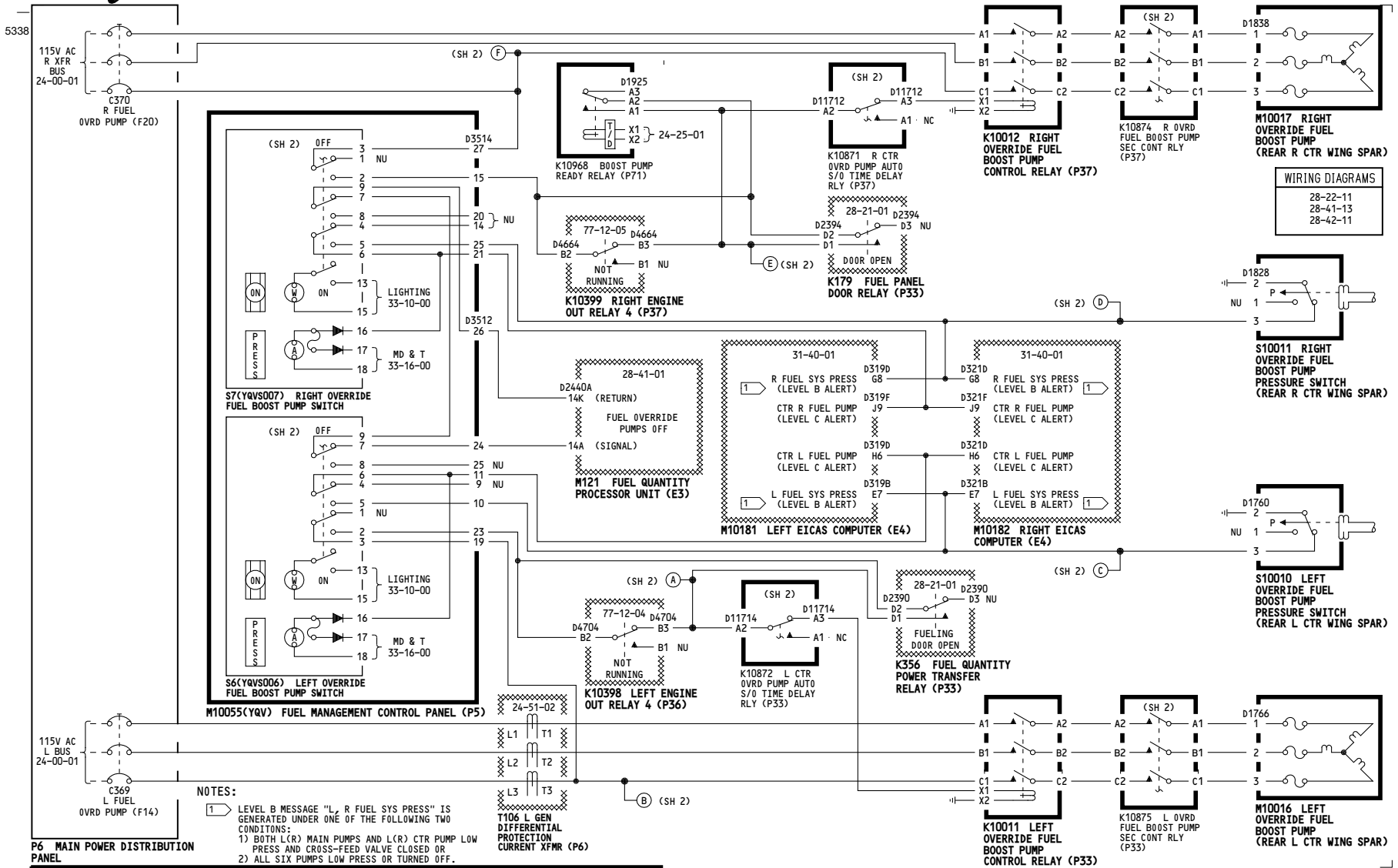
003-099

ENGINE FUEL FEED SYSTEM - CENTER TANK

D280N032S

28-22-03

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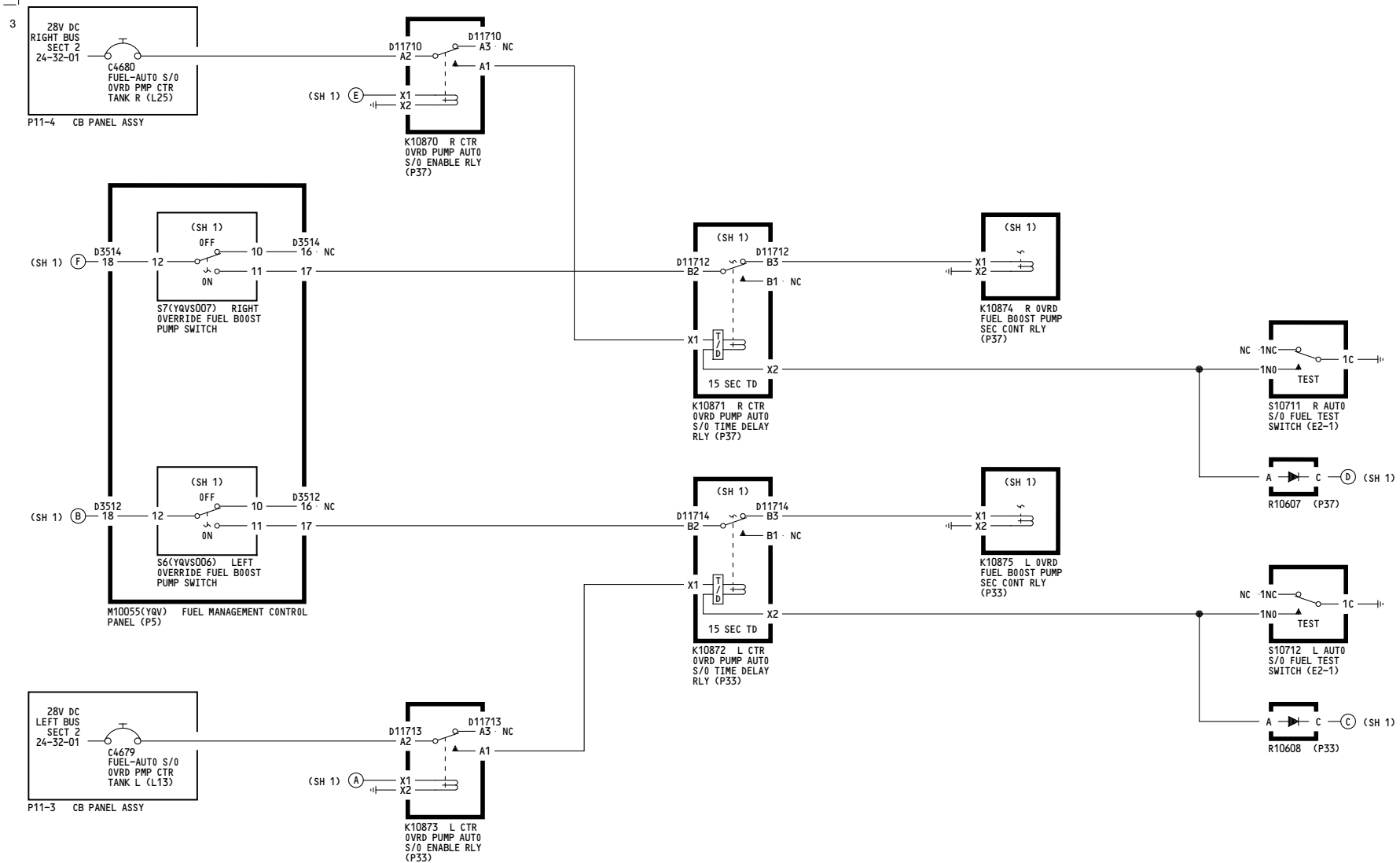
ENGINE FUEL FEED SYSTEM - CENTER TANK

Incorporates
 28A0081
 28A0105 R01

D280N032S

28-22-03

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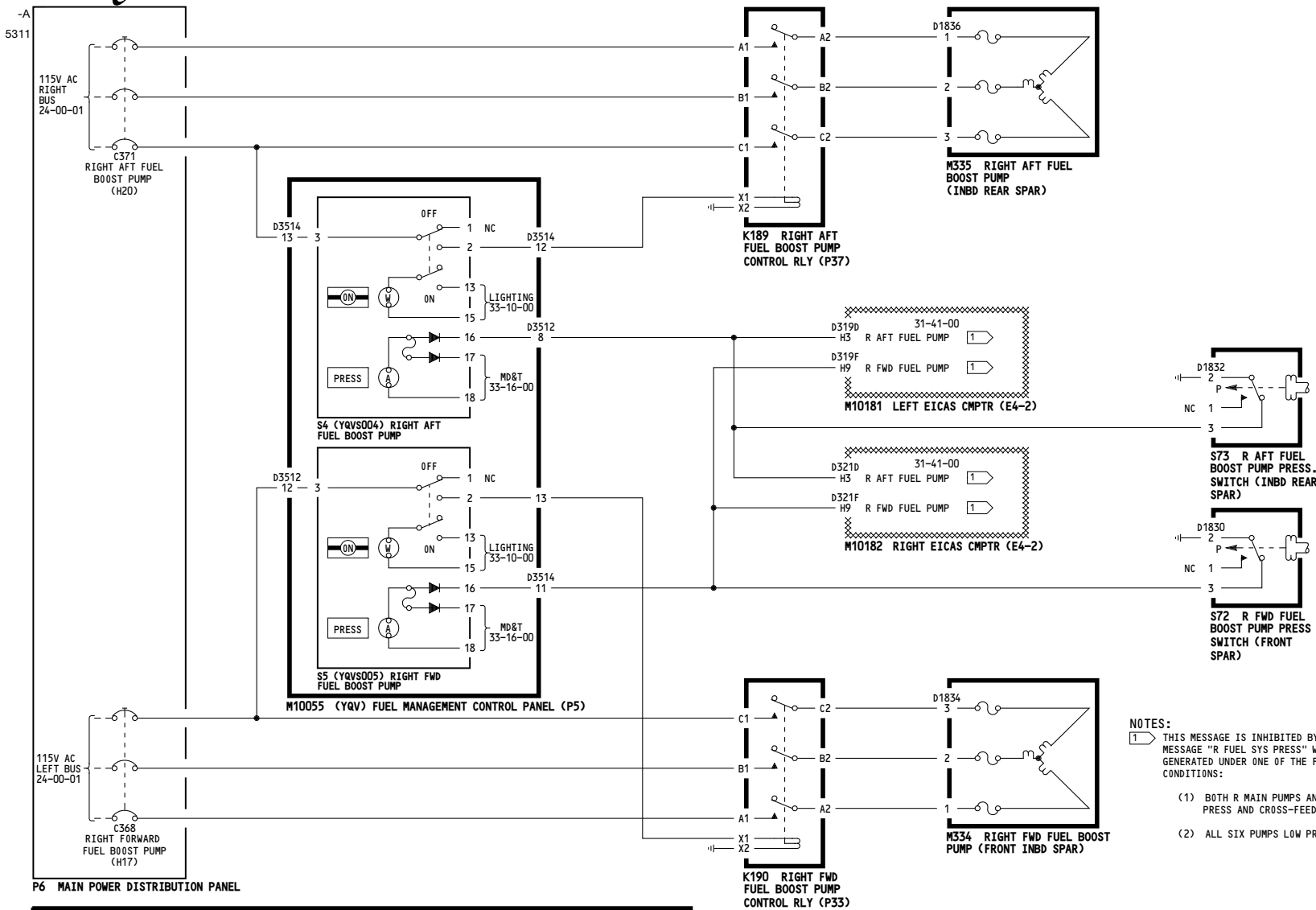
<p>003-011</p>	<p>ENGINE FUEL FEED SYSTEM - CENTER TANK</p> <p>D280N032S</p>
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- Incorporates
- ▶ 28A0081
 - ▶ 28A0105 R01

28-22-03

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Oct 09/2008

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



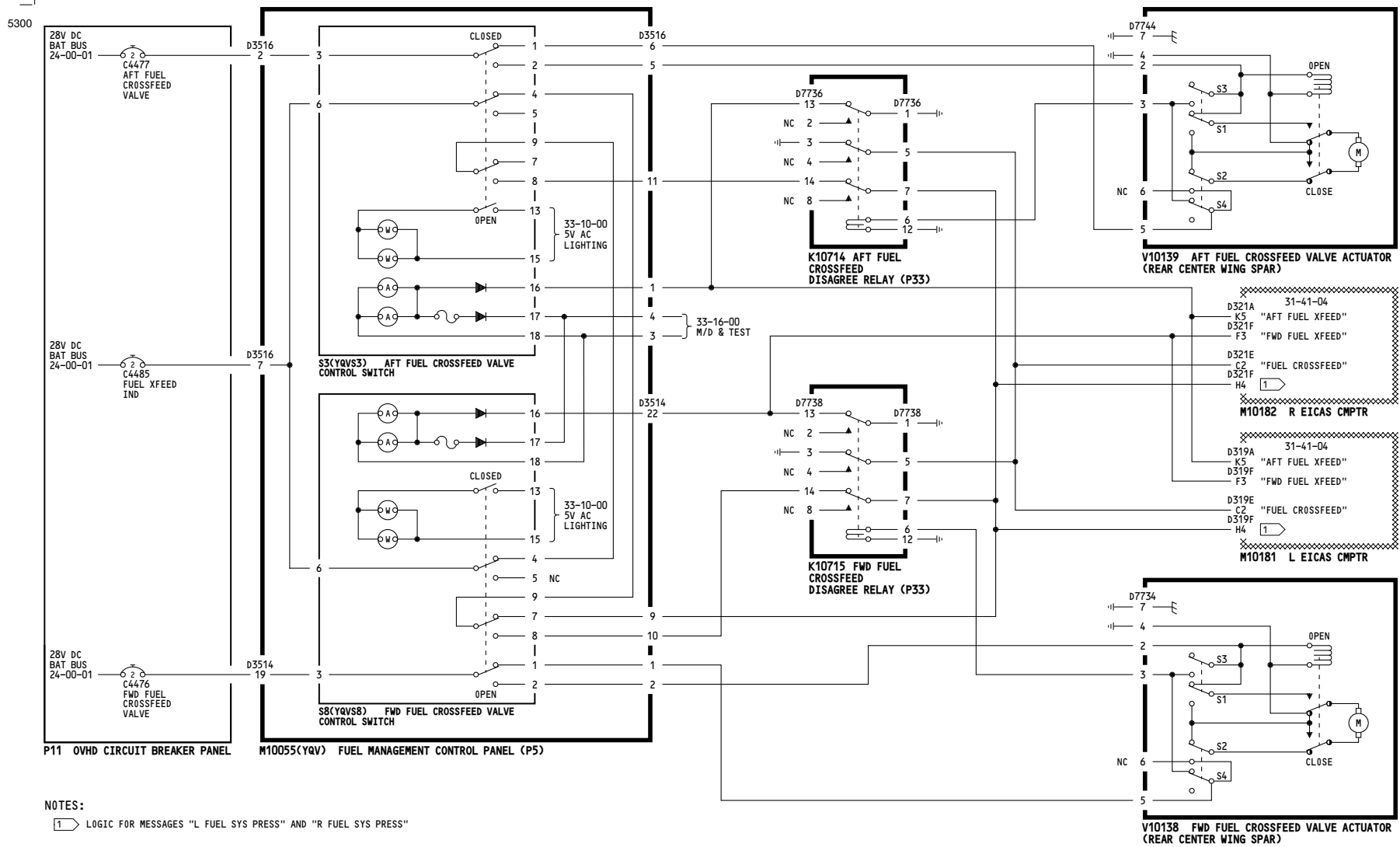
- NOTES:**
- 1 THIS MESSAGE IS INHIBITED BY LEVEL B MESSAGE "R FUEL SYS PRESS" WHICH IS GENERATED UNDER ONE OF THE FOLLOWING CONDITIONS:
 - (1) BOTH R MAIN PUMPS AND R CTR PUMP LOW PRESS AND CROSS-FEED VALVE CLOSED; OR
 - (2) ALL SIX PUMPS LOW PRESS OR TURNED OFF.

ALL

ENGINE FUEL FEED SYSTEM - RIGHT TANK

D280N032S

28-22-04



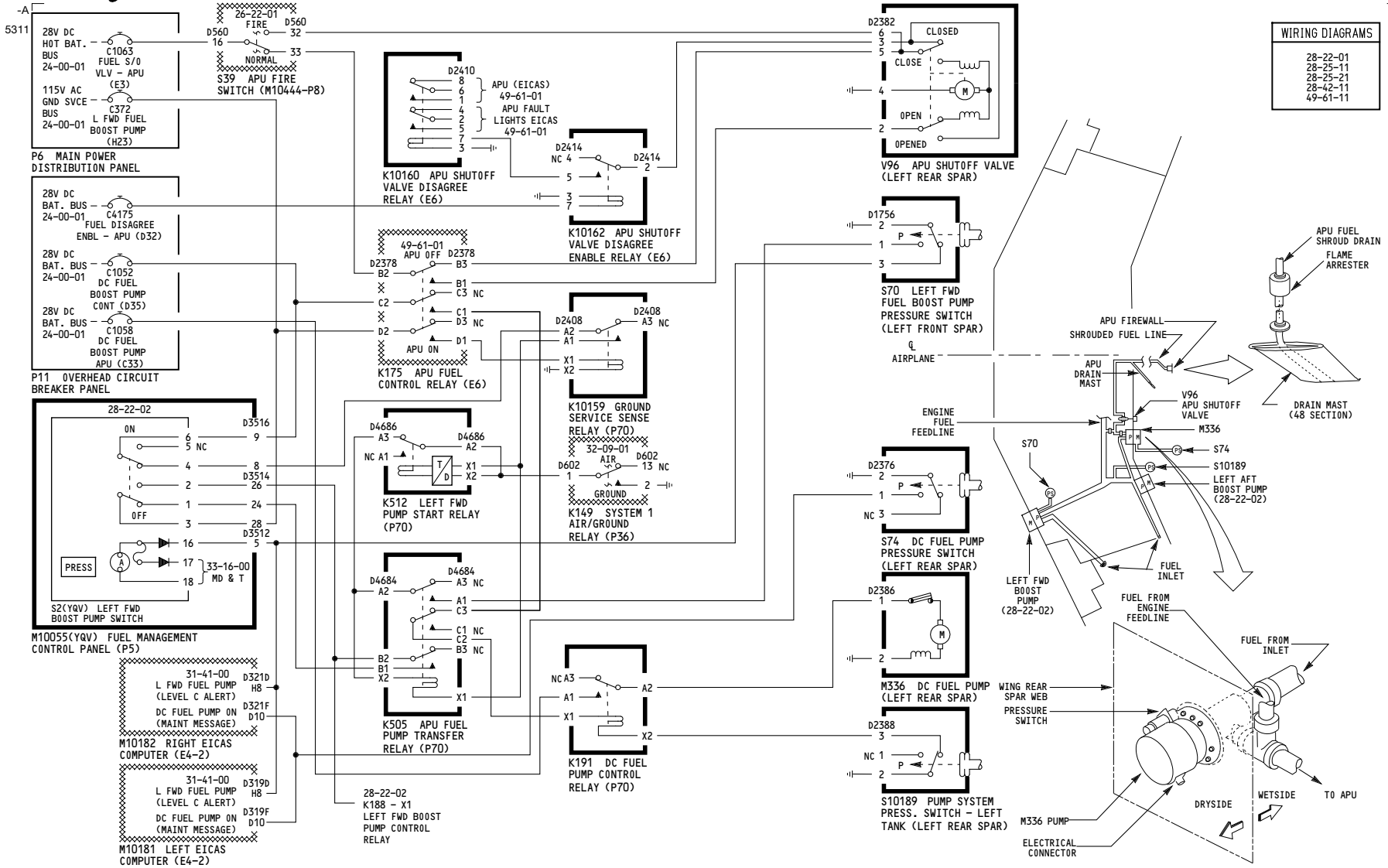
NOTES:
 1 LOGIC FOR MESSAGES "L FUEL SYS PRESS" AND "R FUEL SYS PRESS"

009-099	FUEL CROSSFEED VALVES
D280N032S	

28-22-05

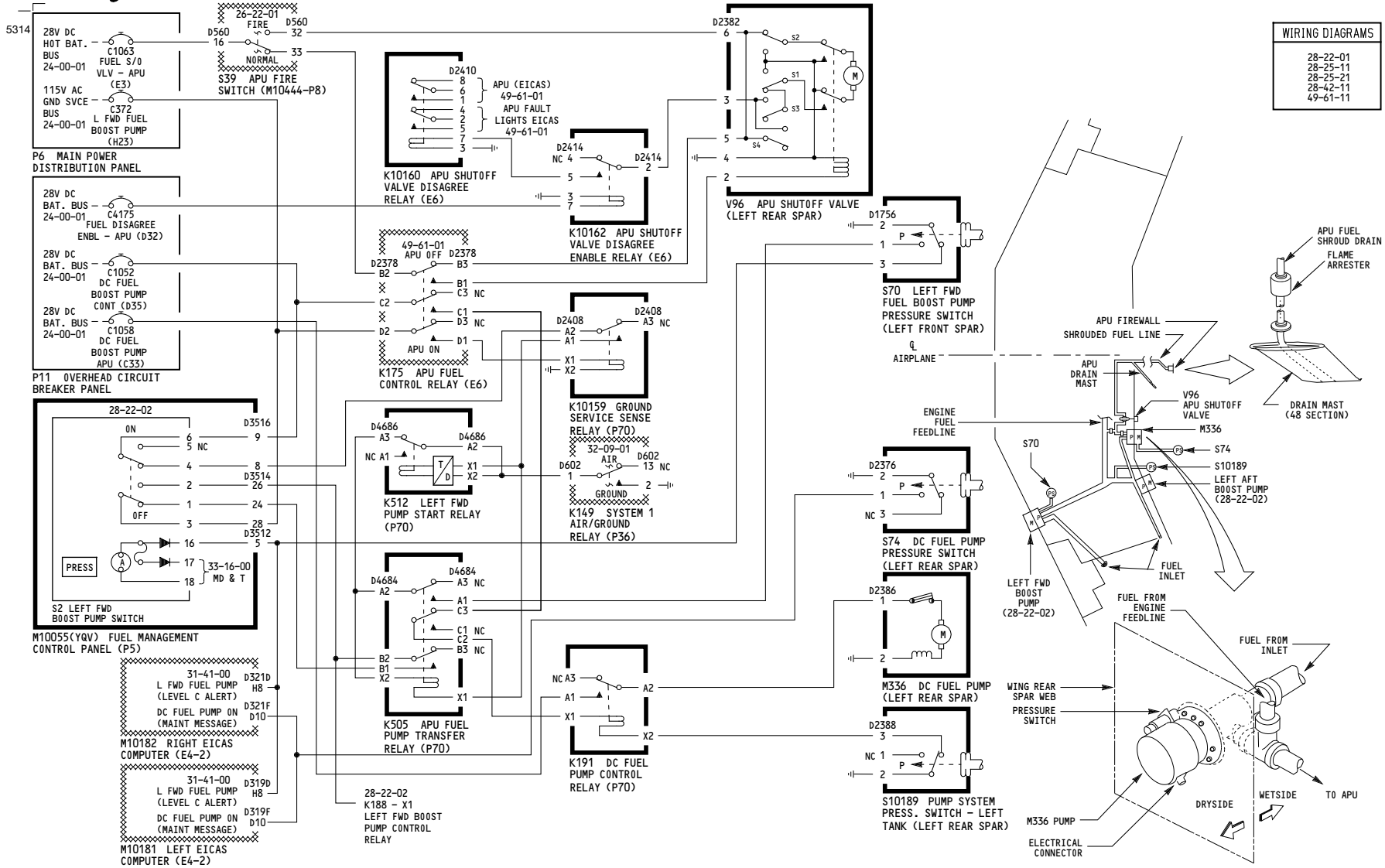
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001	<p>APU FUEL FEED SYSTEM</p> <p style="font-size: 2em; font-weight: bold;">D280N032S</p>
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28-25-01



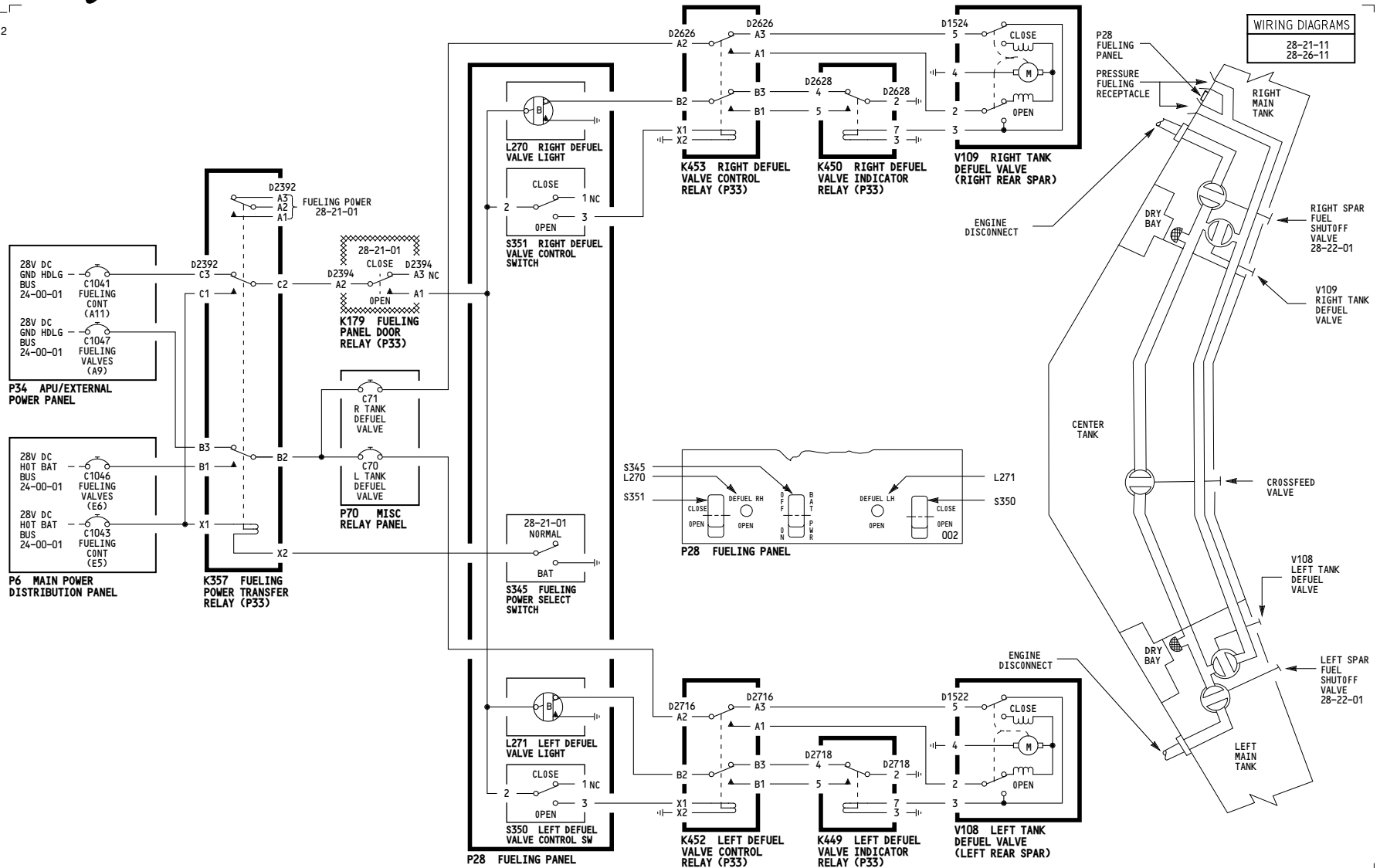
WIRING DIAGRAMS

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>
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28-25-01

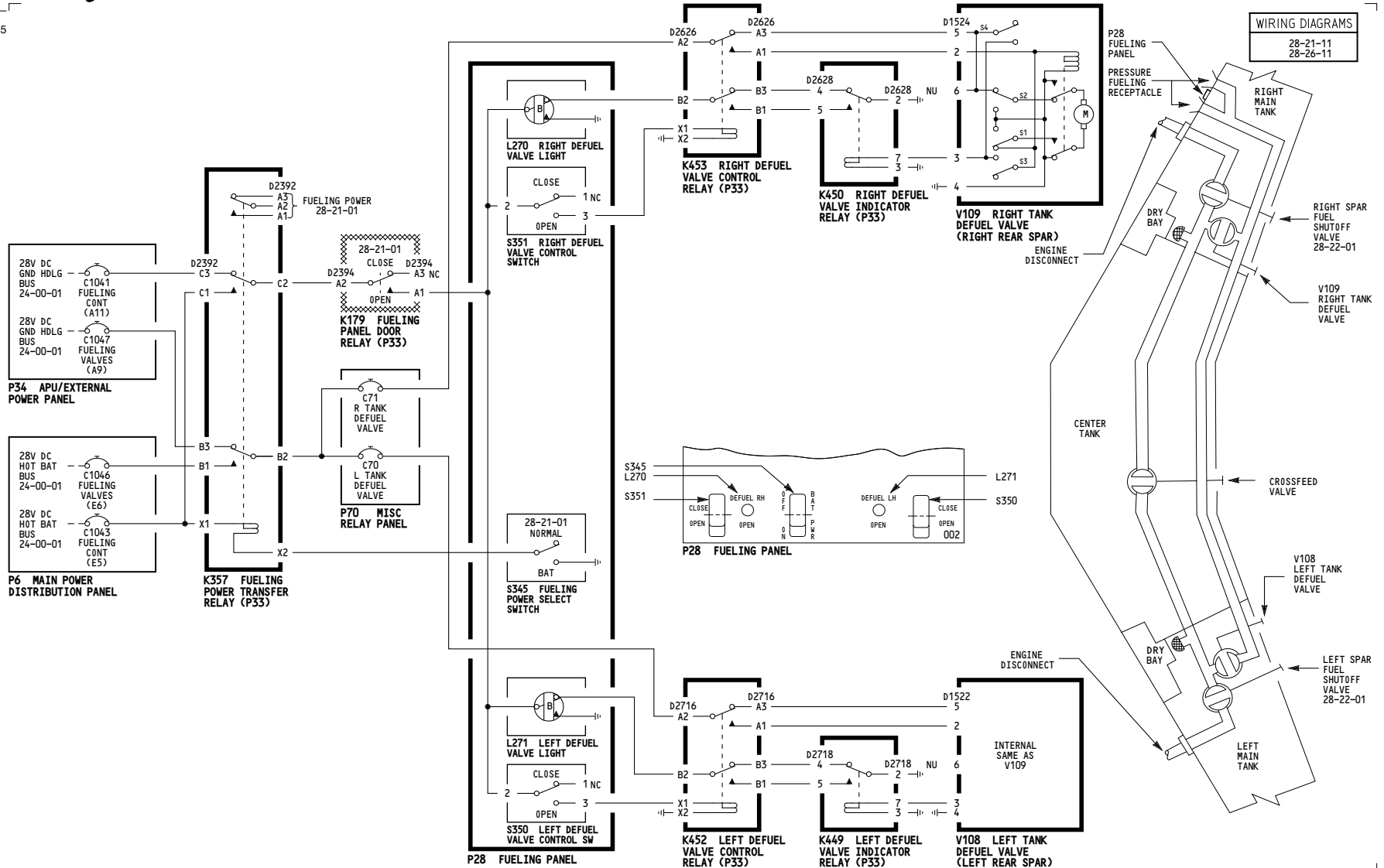
5312



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

001	DEFUELING
D280N032S	

28-26-01



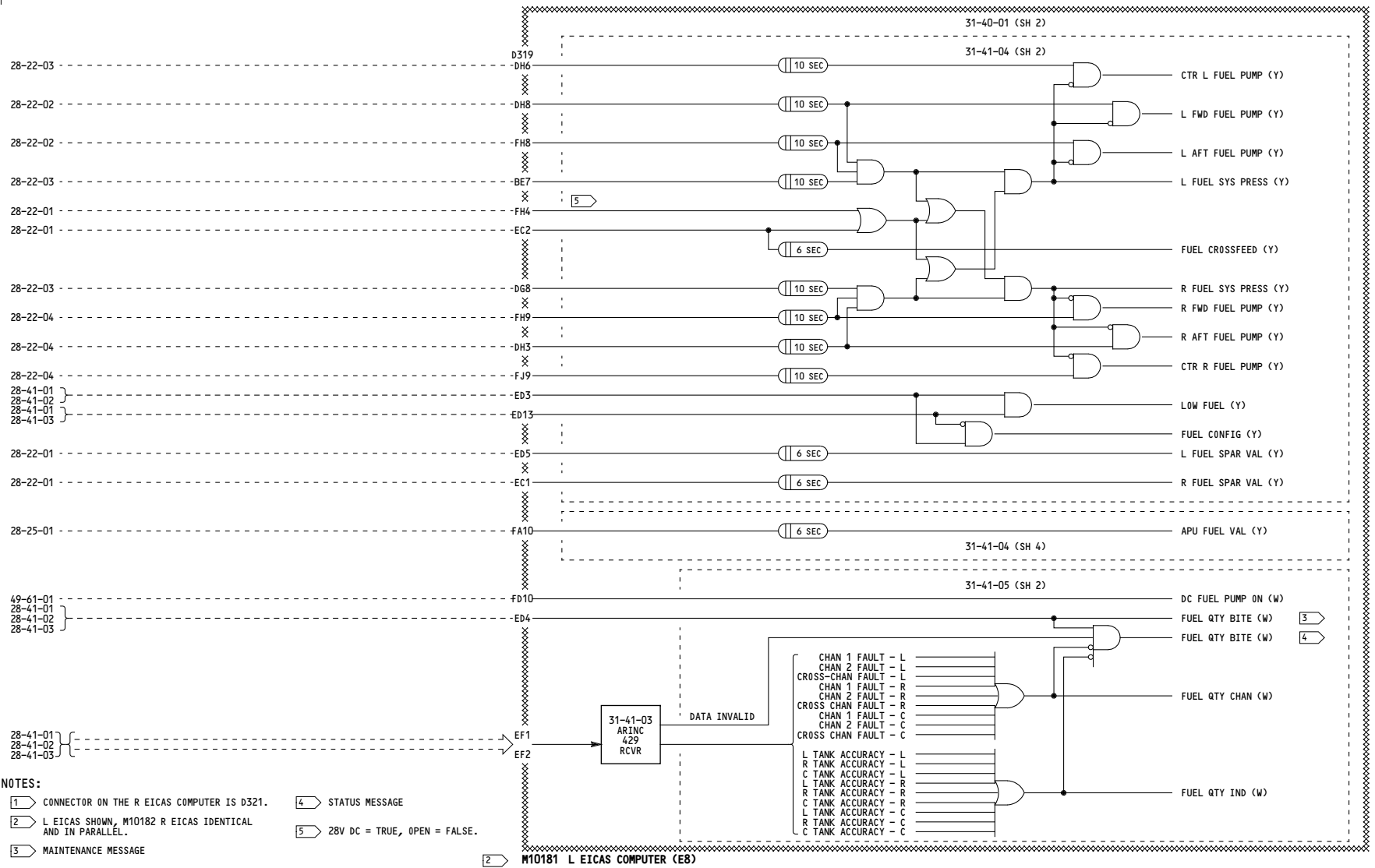
002-099

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.

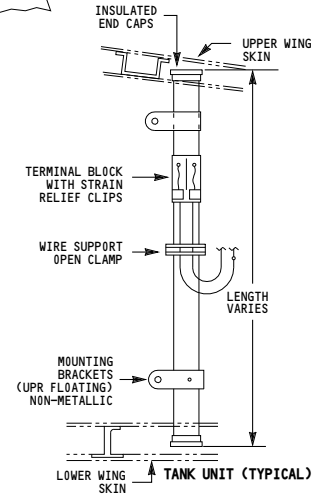
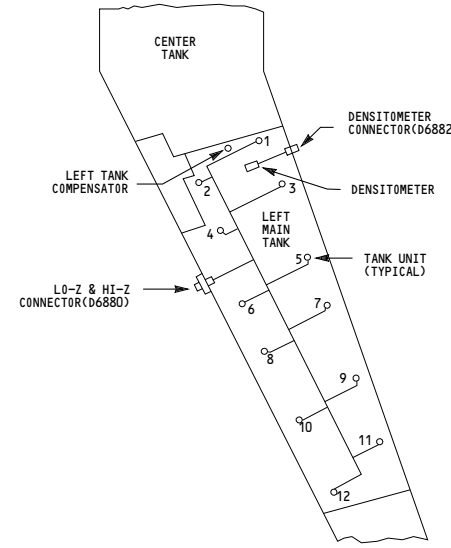
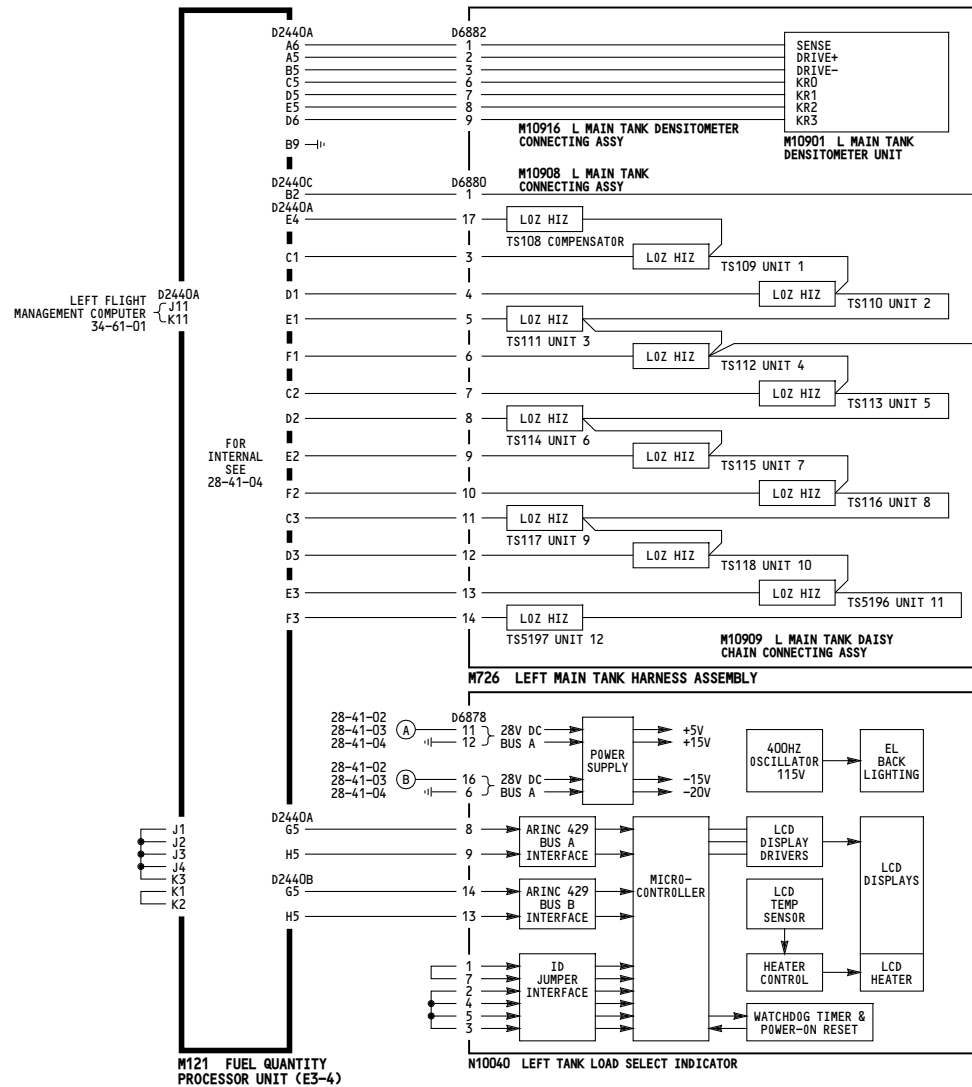
ALL	FUEL - EICAS WARNING
D280N032S	

28-40-01

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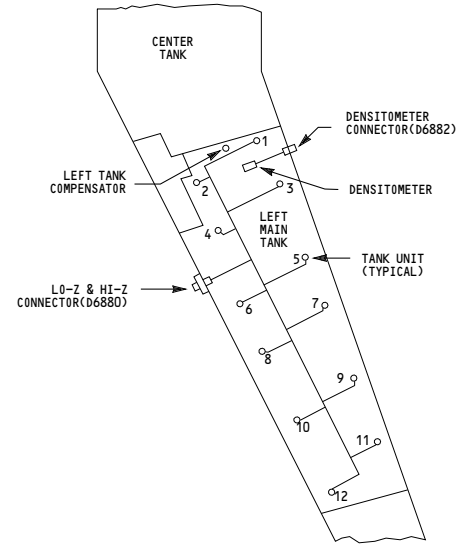
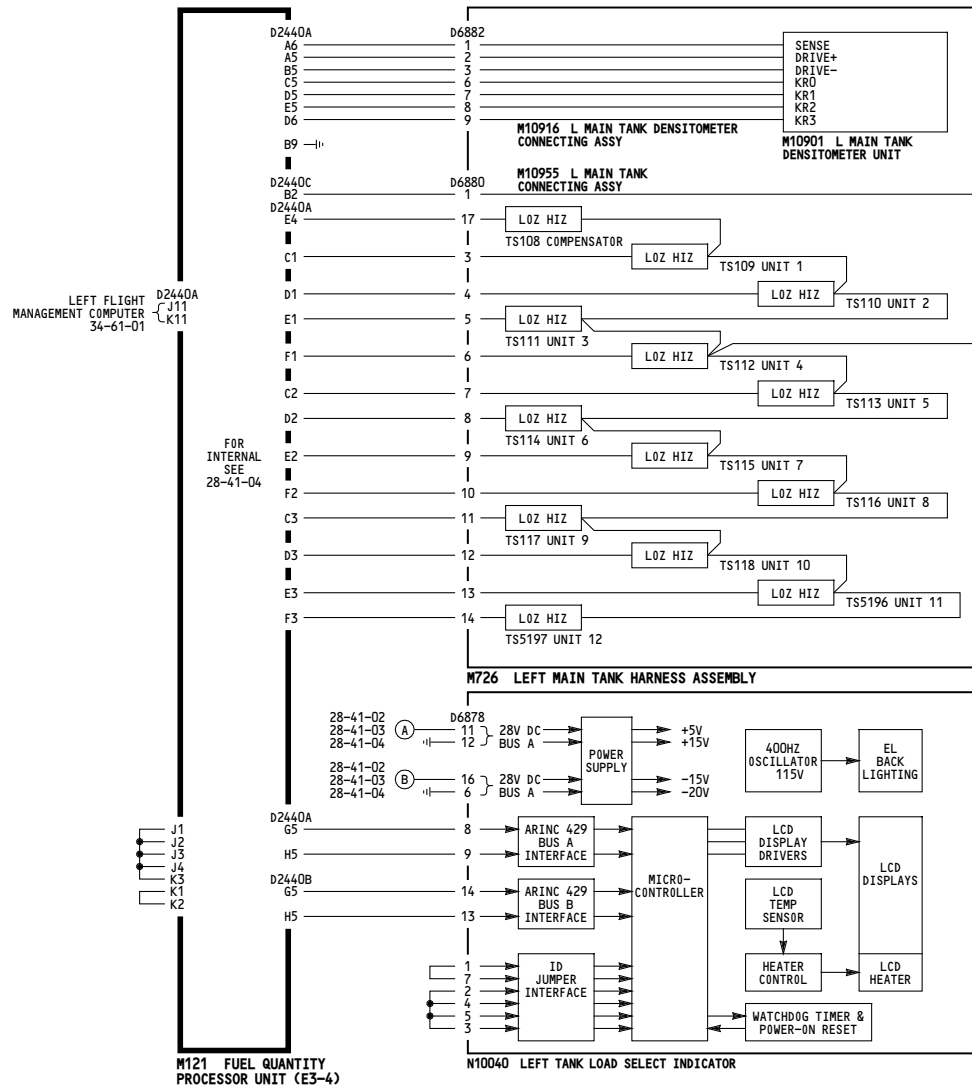
May 06/2009

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

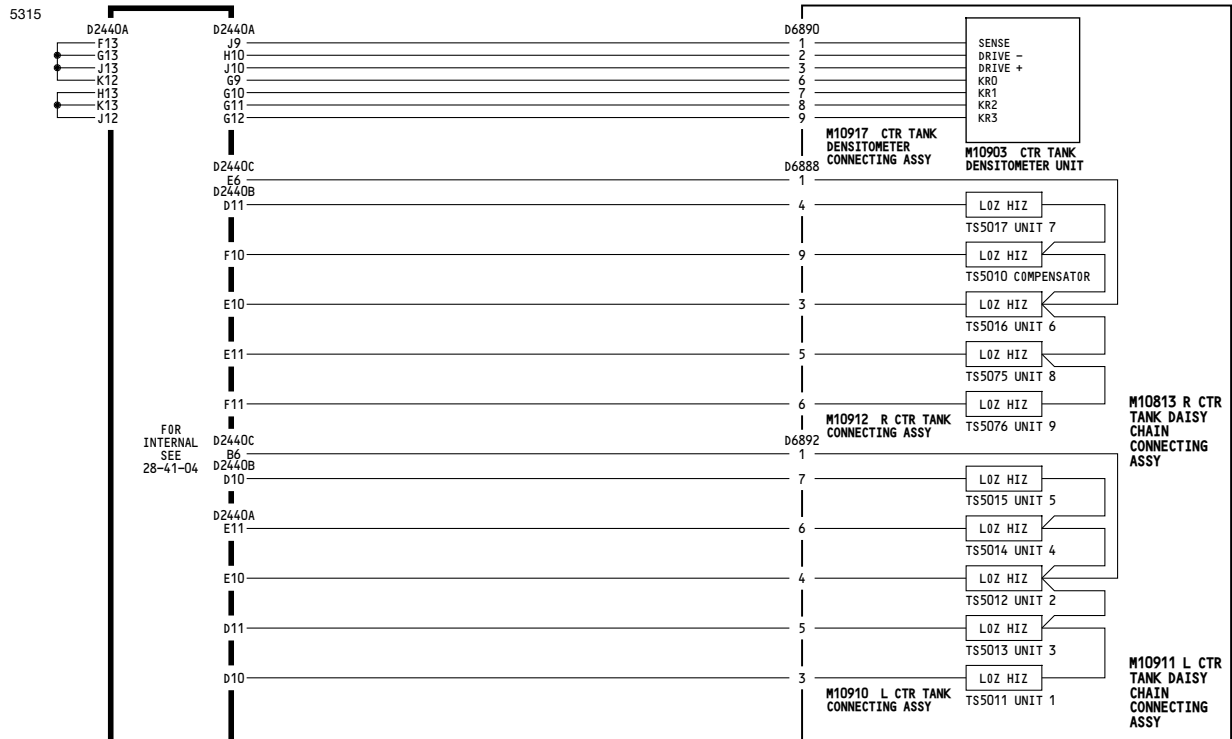


001-007	LEFT TANK FUEL QUANTITY INDICATION
D280N032S	

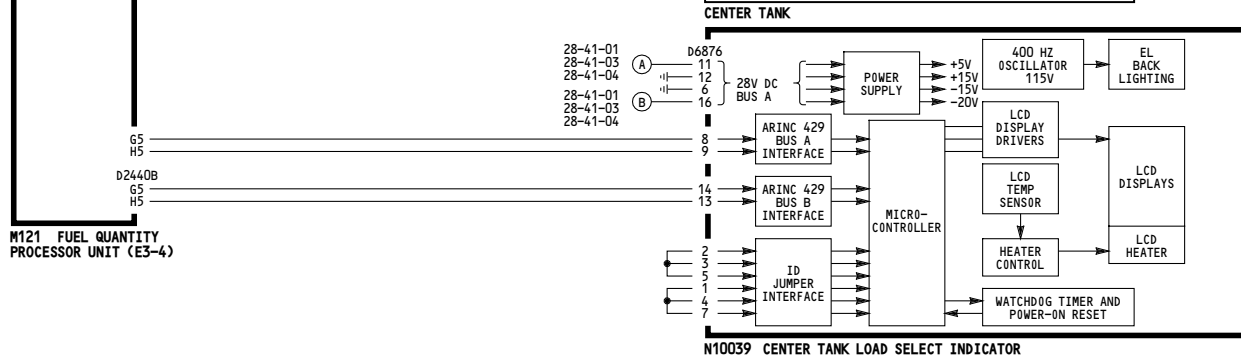
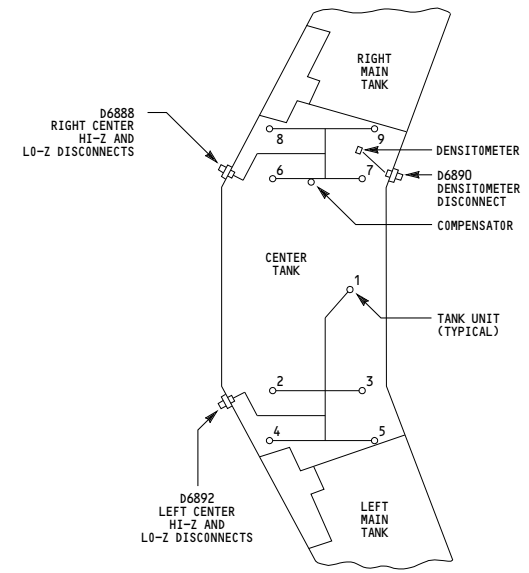
WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-21	



008-099	LEFT TANK FUEL QUANTITY INDICATION
D280N032S	



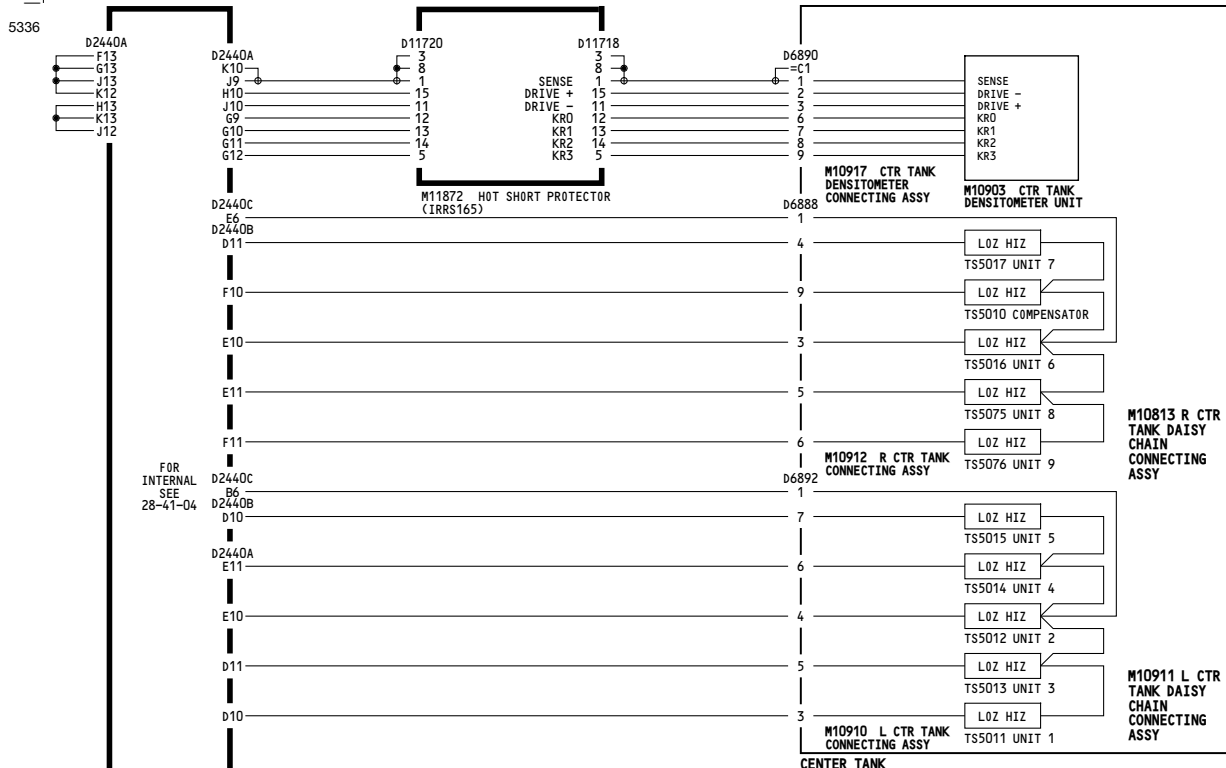
WIRING DIAGRAMS	
28-21-11	
28-41-11	
28-41-13	
28-41-21	
28-41-41	



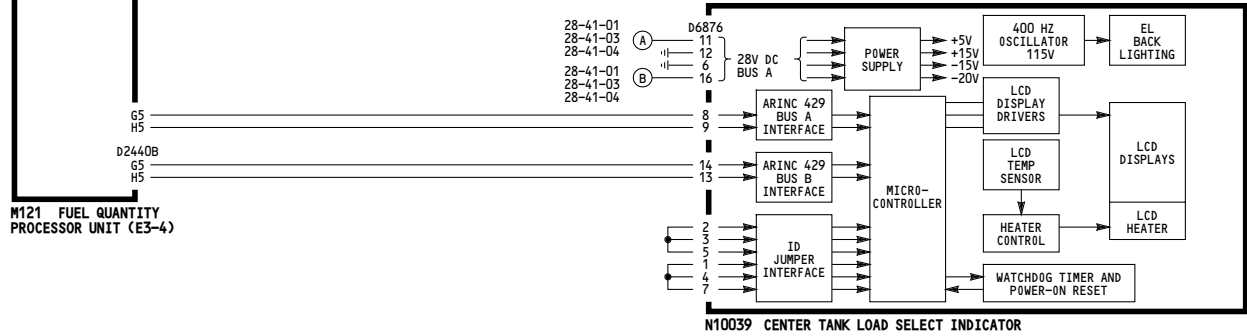
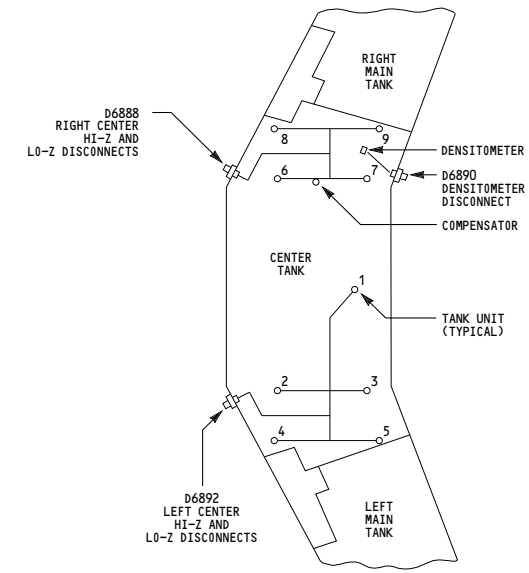
N10039 CENTER TANK LOAD SELECT INDICATOR

001-007	CENTER TANK FUEL QUANTITY INDICATION
	D280N032S

28-41-02



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



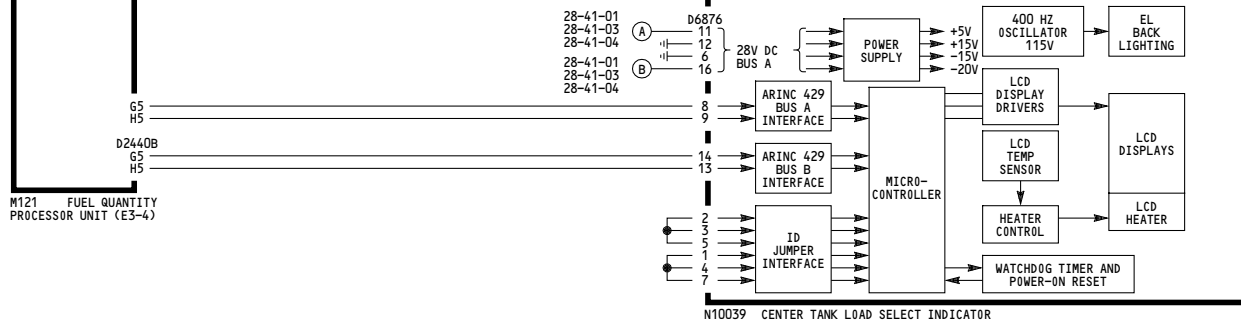
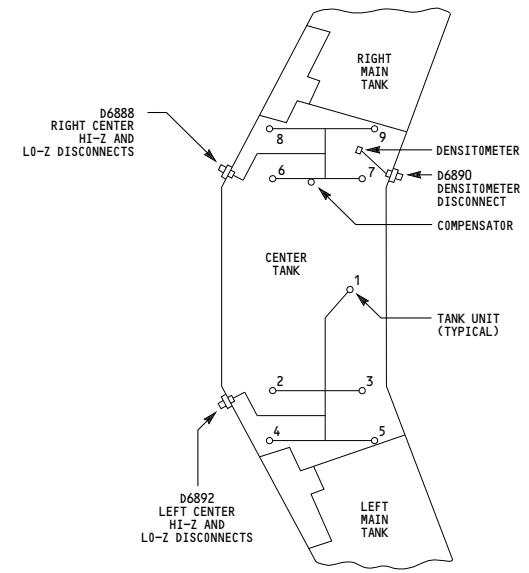
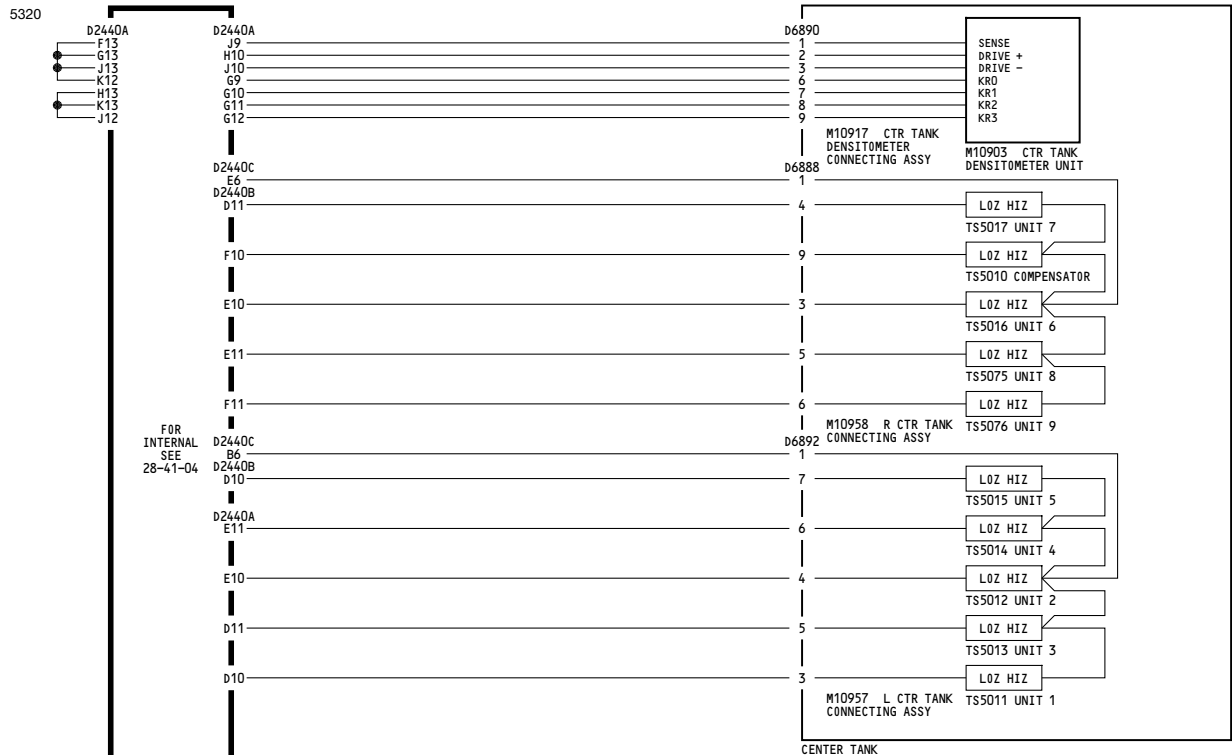
001-007	<p>CENTER TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
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Incorporates
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28-41-02

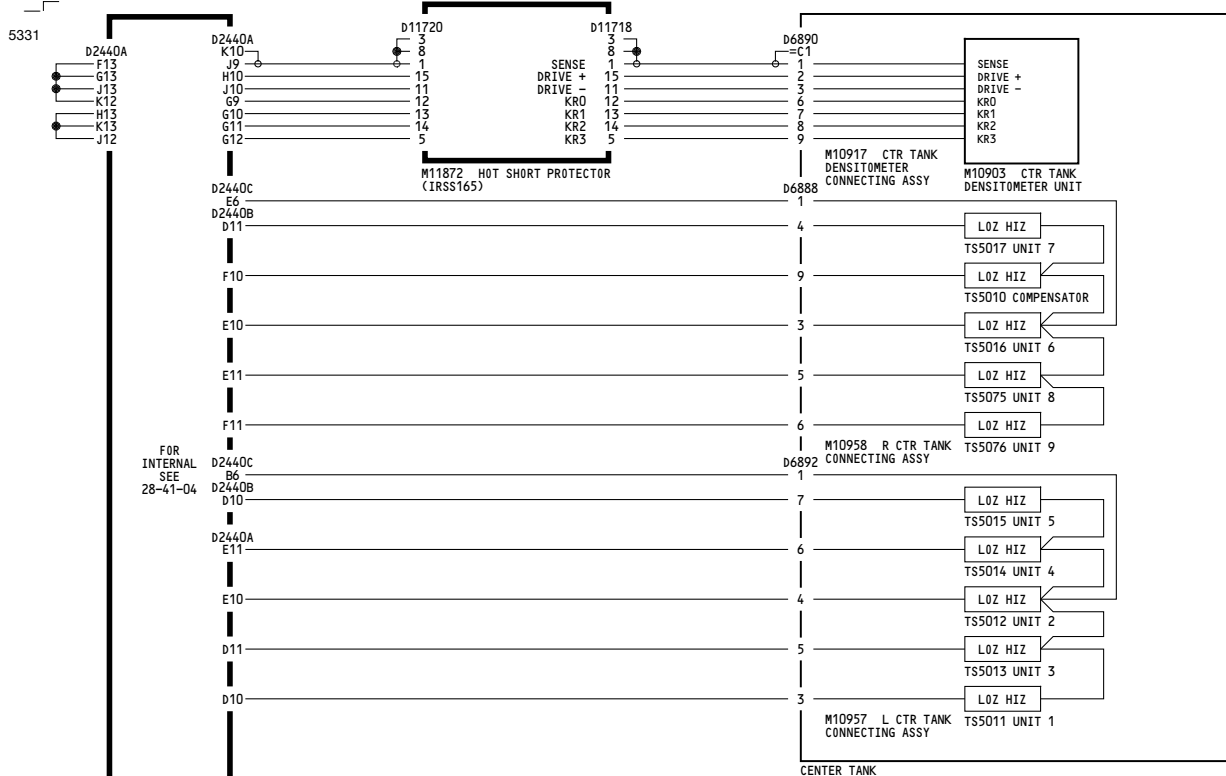
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Oct 09/2008

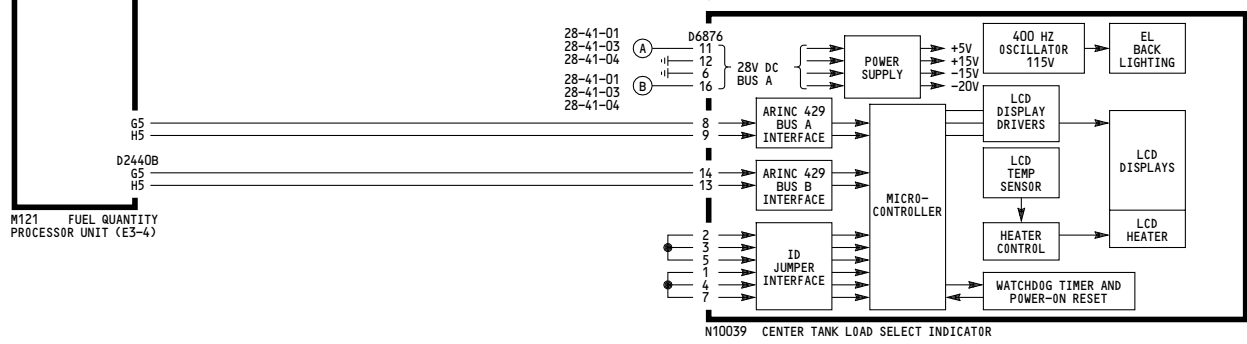
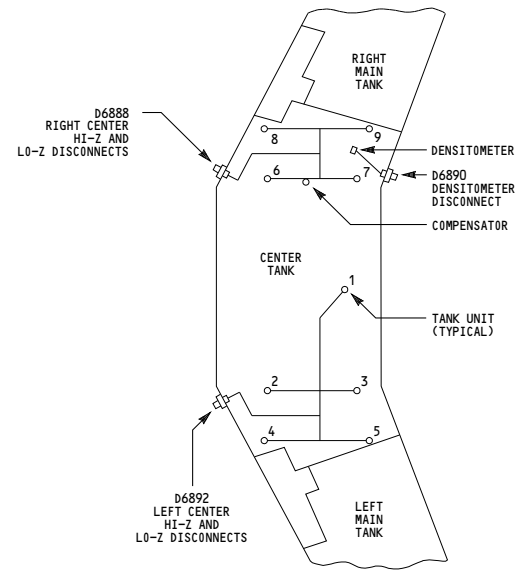


008-099	<p>CENTER TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
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28-41-02



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

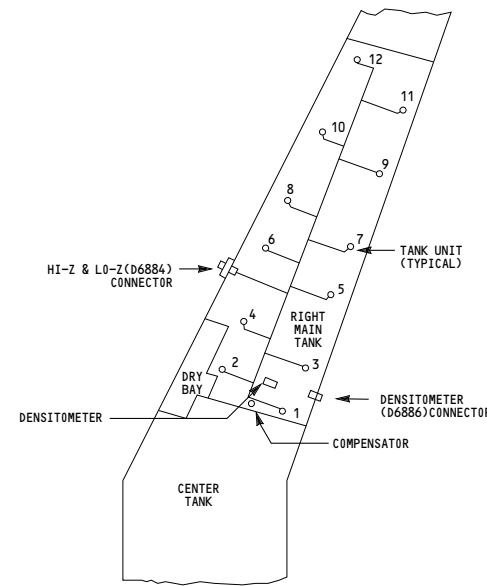
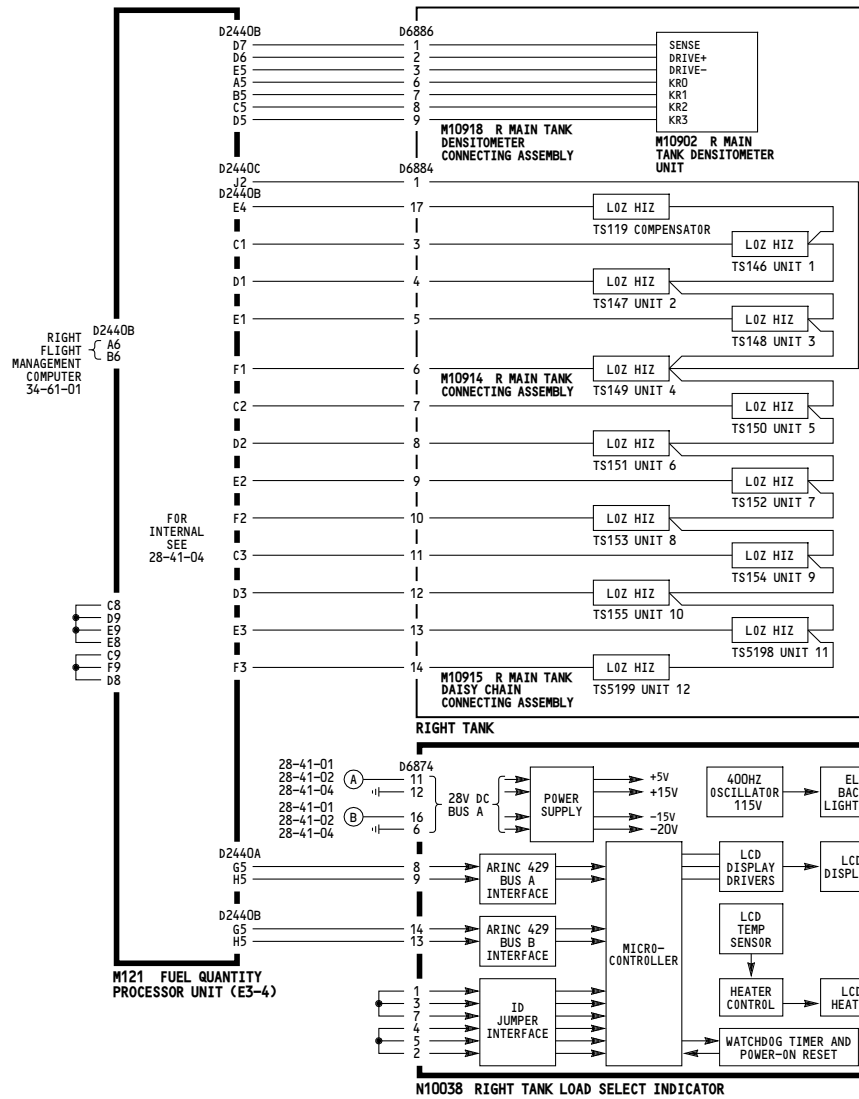


008-011	<p>CENTER TANK FUEL QUANTITY INDICATION</p> <p>D280N032S</p>
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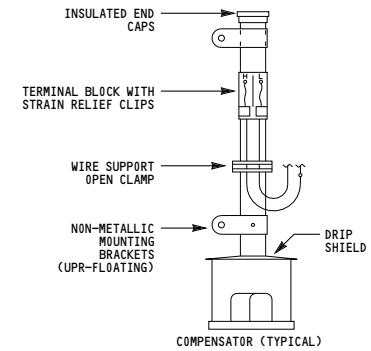
Incorporates
 SB 28A0085 R01

28-41-02

5319



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



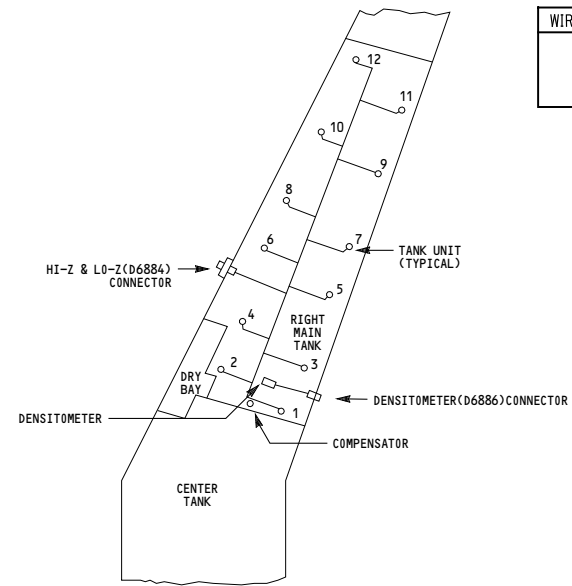
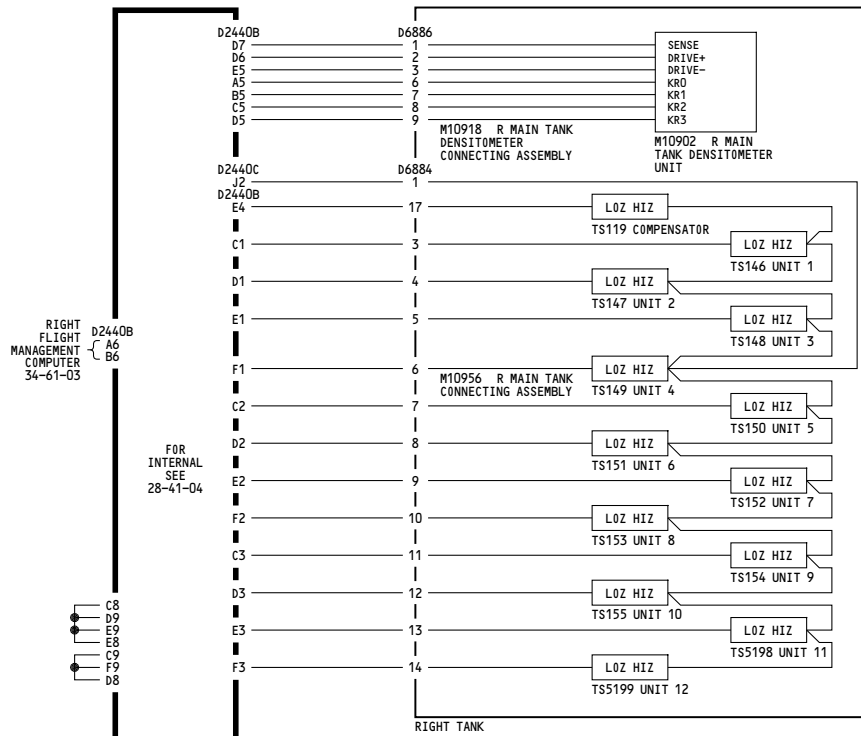
001-007	RIGHT TANK FUEL QUANTITY INDICATION
D280N032S	

28-41-03

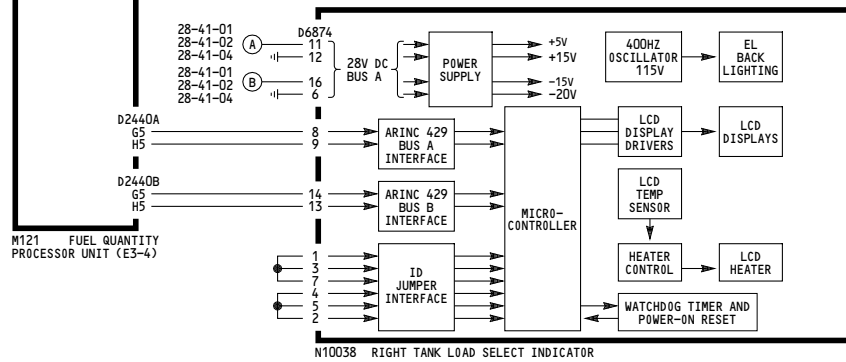
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Dec 18/2007

5321



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



008-099

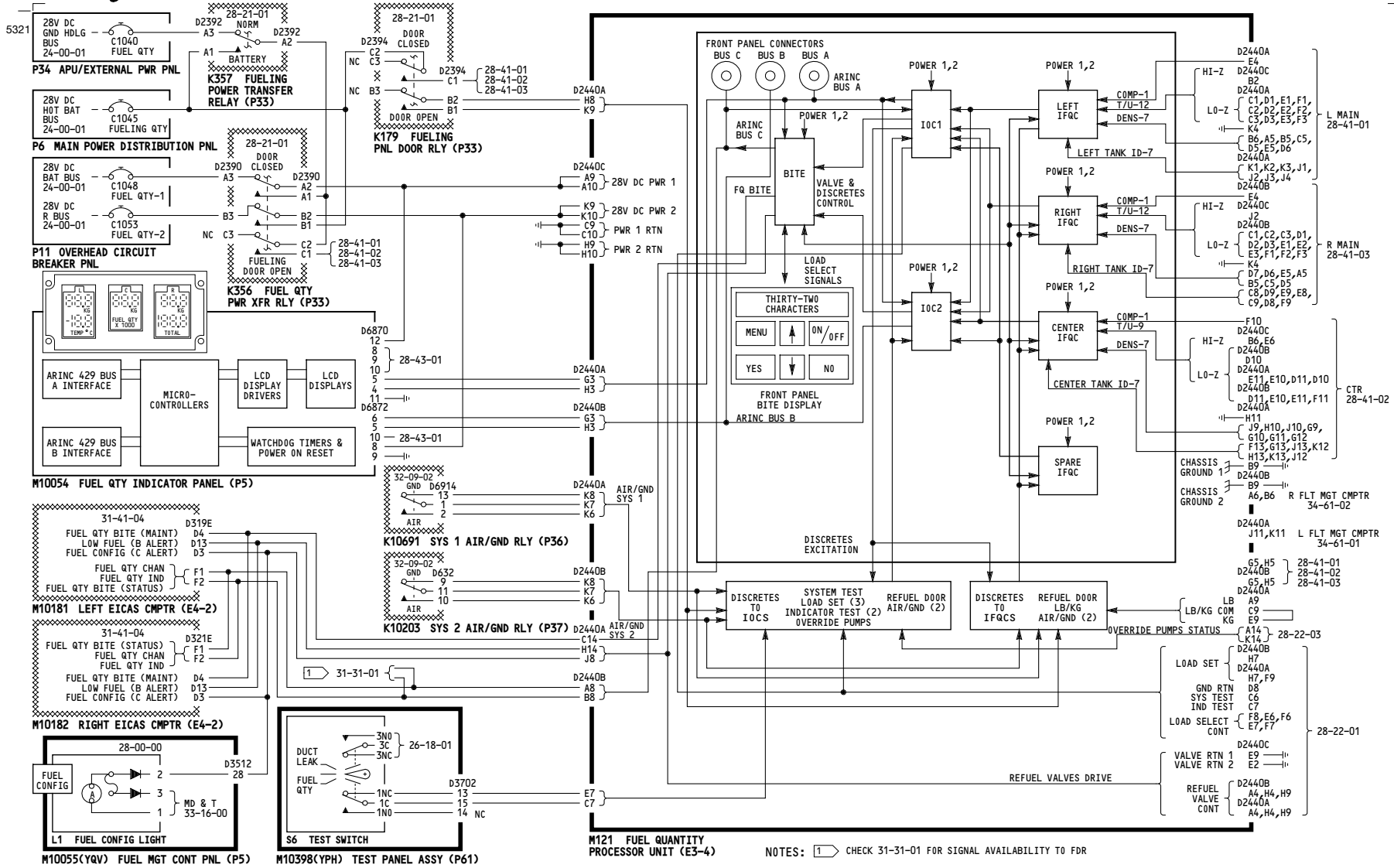
RIGHT TANK FUEL QUANTITY INDICATION

D280N032S

28-41-03

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001-003, 005, 007-099

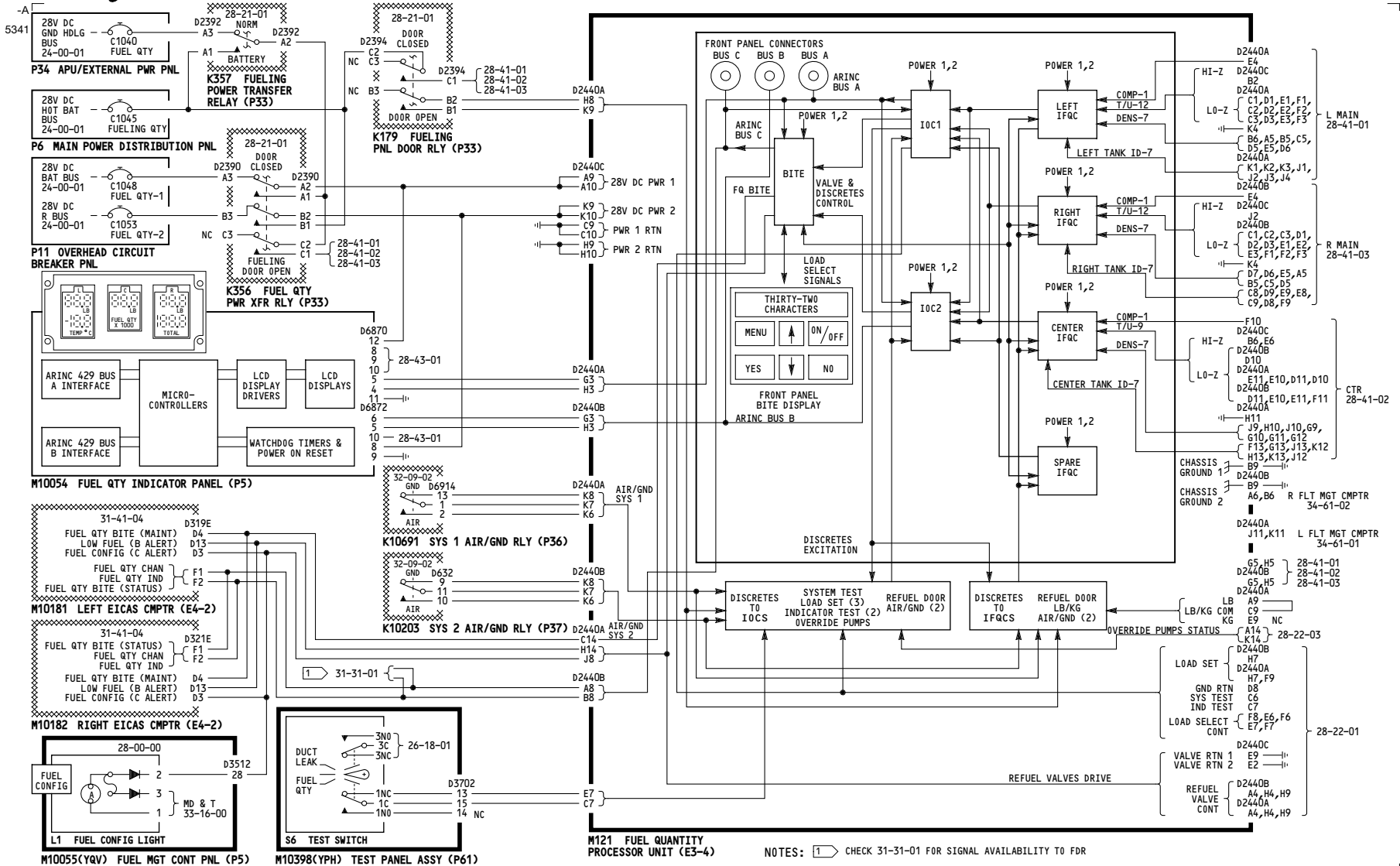
FUEL QUANTITY PROCESSOR INTERFACE

D280N032S

28-41-04

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NOTES: 1 CHECK 31-31-01 FOR SIGNAL AVAILABILITY TO FDR

001

FUEL QUANTITY PROCESSOR INTERFACE

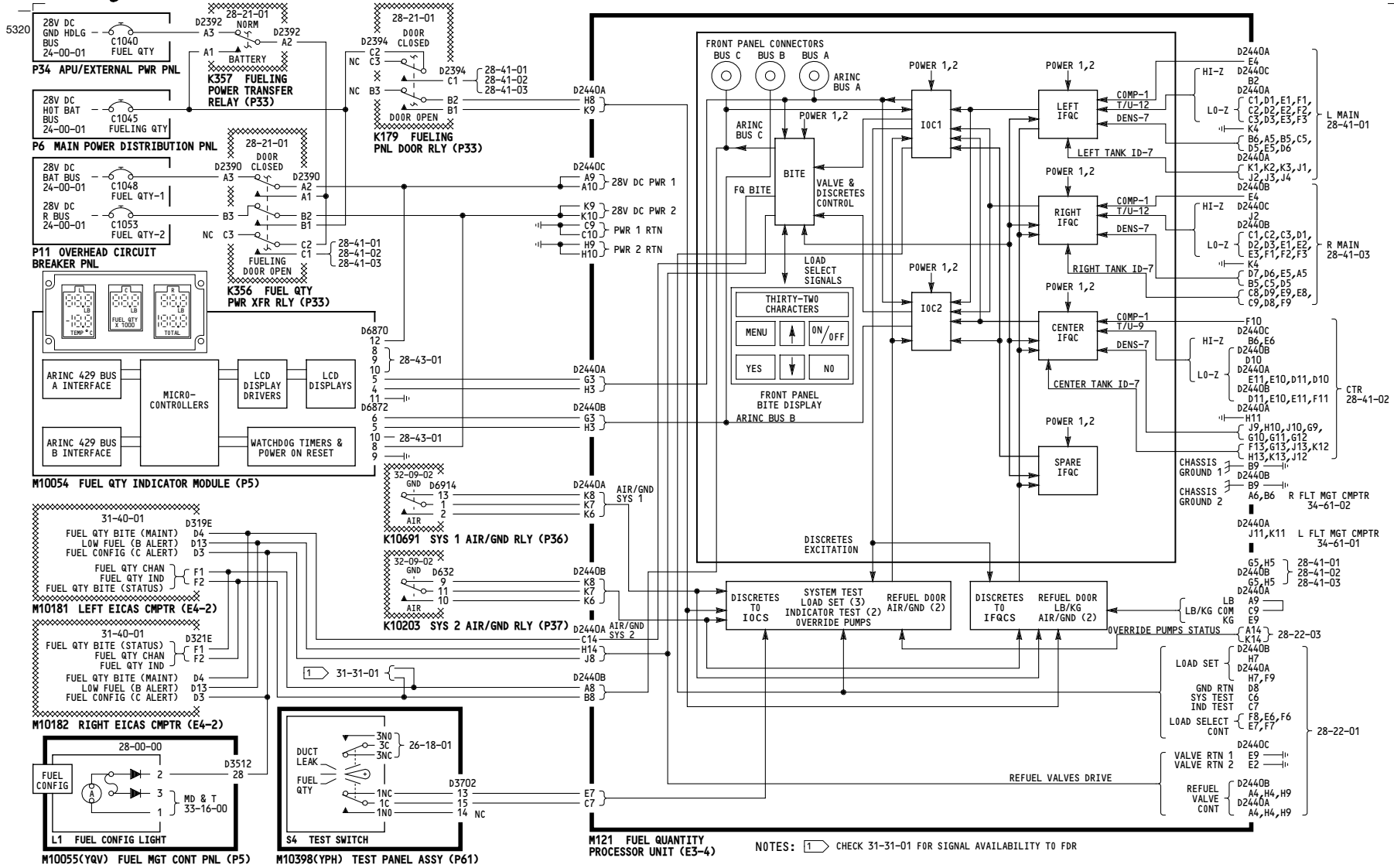
D280N032S

Incorporates
31-0173 R02

28-41-04

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004, 006

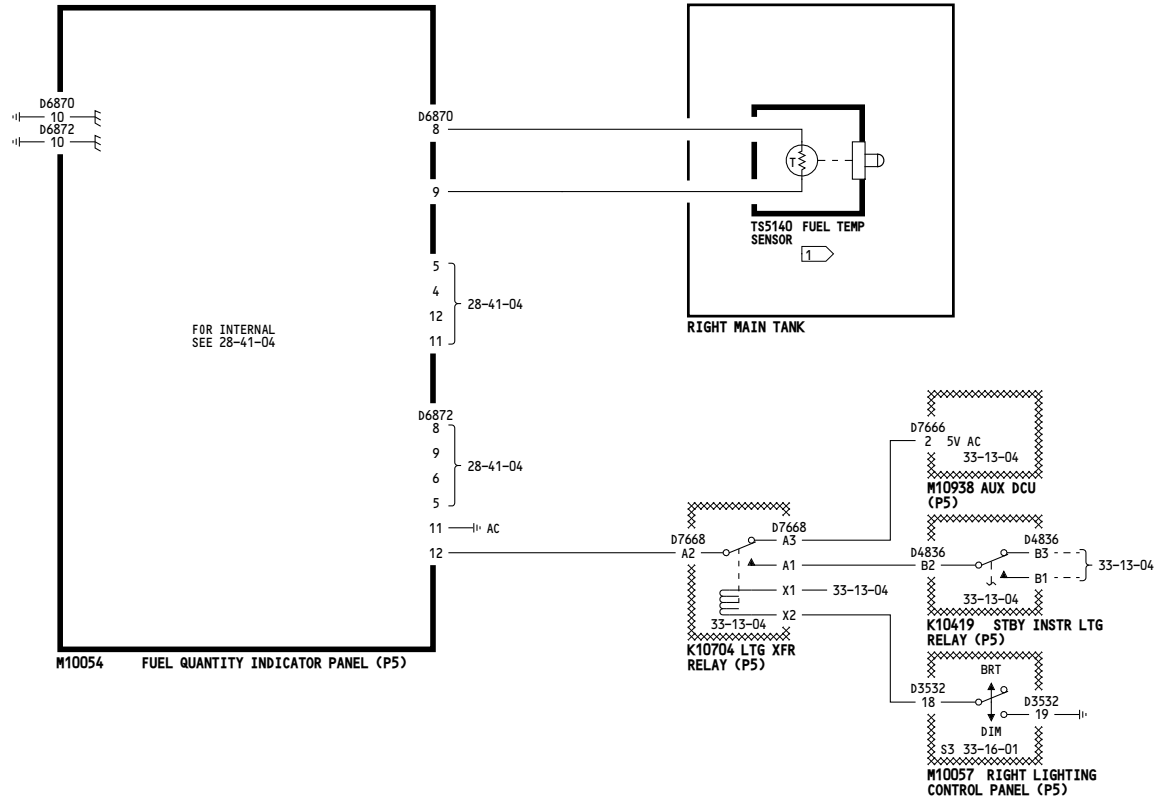
FUEL QUANTITY PROCESSOR INTERFACE

D280N032S

28-41-04

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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>
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