CHAPTER

22

AUTOFLIGHT

CHAPTER 22
AUTOFLIGHT

CH-SC-SU	Schem	Page	Sheet	Date
22–EFFECTIVE PAGES				
		1		Jun 21/2016
		2		BLANK
22–CONTENTS				
R		1		Jun 21/2016
R		2		Jun 21/2016
A		3		Jun 21/2016
A		4		BLANK
22–ALPHABETICAL INDEX				
		1		Aug 15/2013
		2		BLANK
22-11-11				
R		1	1	Jun 21/2016
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22-11-12				
R		1	1	Jun 21/2016
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R		1		Jun 21/2016
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R		1	1	Jun 21/2016
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22-11-51				
		1	1	Aug 15/2013
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			3	Aug 15/2013
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R		2	1	Jun 21/2016
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R		1		Jun 21/2016
22-11-75				
		1	1	Aug 18/2014
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			4	Aug 18/2014
A		1.1	1	Jun 21/2016
A			2	Jun 21/2016
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R			4	Jun 21/2016
22-11-81				
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22-12-41				
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		1	1	Apr 17/2014
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R		1		Jun 21/2016
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R		1		Jun 21/2016
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R		1		Jun 21/2016

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

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DIGITAL FLIGHT CONTROL SYSTEM						
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DFCS - A AND B SYSTEM INTERLOCKS	22-11-12		1	1	Jun 21/2016	ALL
				2	Jun 21/2016	ALL
DFCS - INTERSYSTEM SWITCHING	22-11-14		1		Jun 21/2016	ALL
DFCS INTERSYSTEM SWITCHING - VHF NAV ANTENNAS	22-11-18		1		Jun 21/2016	ALL
DFCS - A AND B A/P ROLL SENSORS AND ACTUATORS	22-11-31		1	1	Jun 21/2016	ALL
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DFCS - DIGITAL BUS INTERFACES - OUTPUT	22-11-51		1	1	Aug 15/2013	YT101-YT103
				2	Aug 15/2013	YT101-YT103
				3	Aug 15/2013	YT101-YT103
				4	Aug 15/2013	YT101-YT103
			2	1	Jun 21/2016	YT104-YT133
				2	Jun 21/2016	YT104-YT133
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				4	Jun 21/2016	YT104-YT133
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DFCS - DIGITAL BUS INTERFACES - DATA LOADER	22-11-53		1		Jun 21/2016	ALL
DFCS - A AND B OPTION PINS	22-11-75		1	1	Aug 18/2014	YT101-YT104
				2	Aug 18/2014	YT101-YT104
				3	Aug 18/2014	YT101-YT104
				4	Aug 18/2014	YT101-YT104
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				2	Jun 21/2016	YT105-YT119 YT126-YT129
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DFCS - RUDDER COMMAND AND CONTROL	22-11-81		1		Jun 21/2016	ALL
DFCS - A A/P PITCH SENSORS AND ACTUATORS	22-12-31		1		Jun 21/2016	ALL
DFCS - B A/P PITCH SENSORS AND ACTUATORS	22-12-41		1		Jun 21/2016	ALL
DFCS - A AND B SPEED AND STABILIZER TRIM	22-13-11		1	1	Apr 17/2014	YT101-YT105
				2	Apr 17/2014	YT101-YT105
			2	1	Jun 21/2016	YT106-YT133
				2	Jun 21/2016	YT106-YT133
DFCS - ANNUNCIATION AND WARNING	22-14-11		1	1	Jun 21/2016	ALL
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DFCS - MACH TRIM	22-18-11		1		Jun 21/2016	ALL
YAW DAMPER SYSTEM						
YAW DAMPER ENGAGE INTERLOCKS	22-23-11		1		Aug 15/2013	YT101-YT103
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YAW DAMPER RUDDER CONTROL	22-23-12		1		Jun 21/2016	ALL
AUTOTHROTTLE SYSTEM						
AUTOTHROTTLE SYSTEM - DIGITAL INPUTS FROM SMYDC'S AND RA'S	22-31-22		1		Jun 21/2016	ALL

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			2		Jun 21/2016	YT118-YT120 YT132-YT133
AUTOTHROTTLE SYSTEM - SERVO MOTOR 2	22-31-41		1		Mar 14/2016	YT101-YT117 YT126-YT131
			2		Jun 21/2016	YT118-YT120 YT132-YT133
AUTOTHROTTLE SYSTEM - ENGAGE/DISENGAGE	22-31-51		1		Jun 21/2016	ALL
AUTOTHROTTLE SYSTEM - MODE ANNUNCIATION	22-31-52		1		Jun 21/2016	ALL

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22-11-31	DFCS - A AND B A/P ROLL SENSORS AND ACTUATORS
22-11-11	DFCS - A AND B FCC POWER AND 26V AC EXCITATION
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22-11-18	DFCS INTERSYSTEM SWITCHING - VHF NAV ANTENNAS
22-23-11	YAW DAMPER ENGAGE INTERLOCKS
22-23-12	YAW DAMPER RUDDER CONTROL

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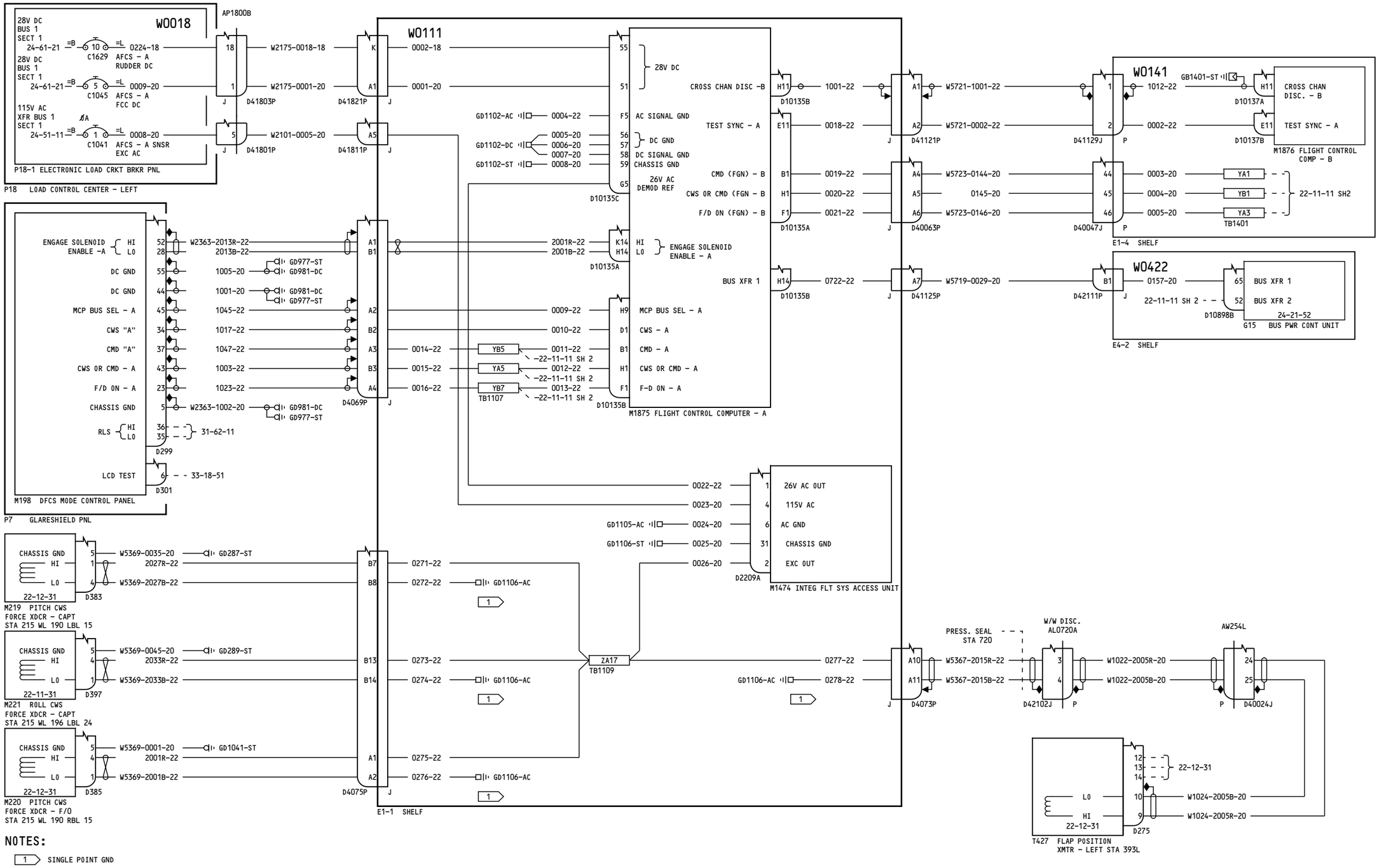

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DFCS - A AND B FCC POWER AND 26V AC EXCITATION

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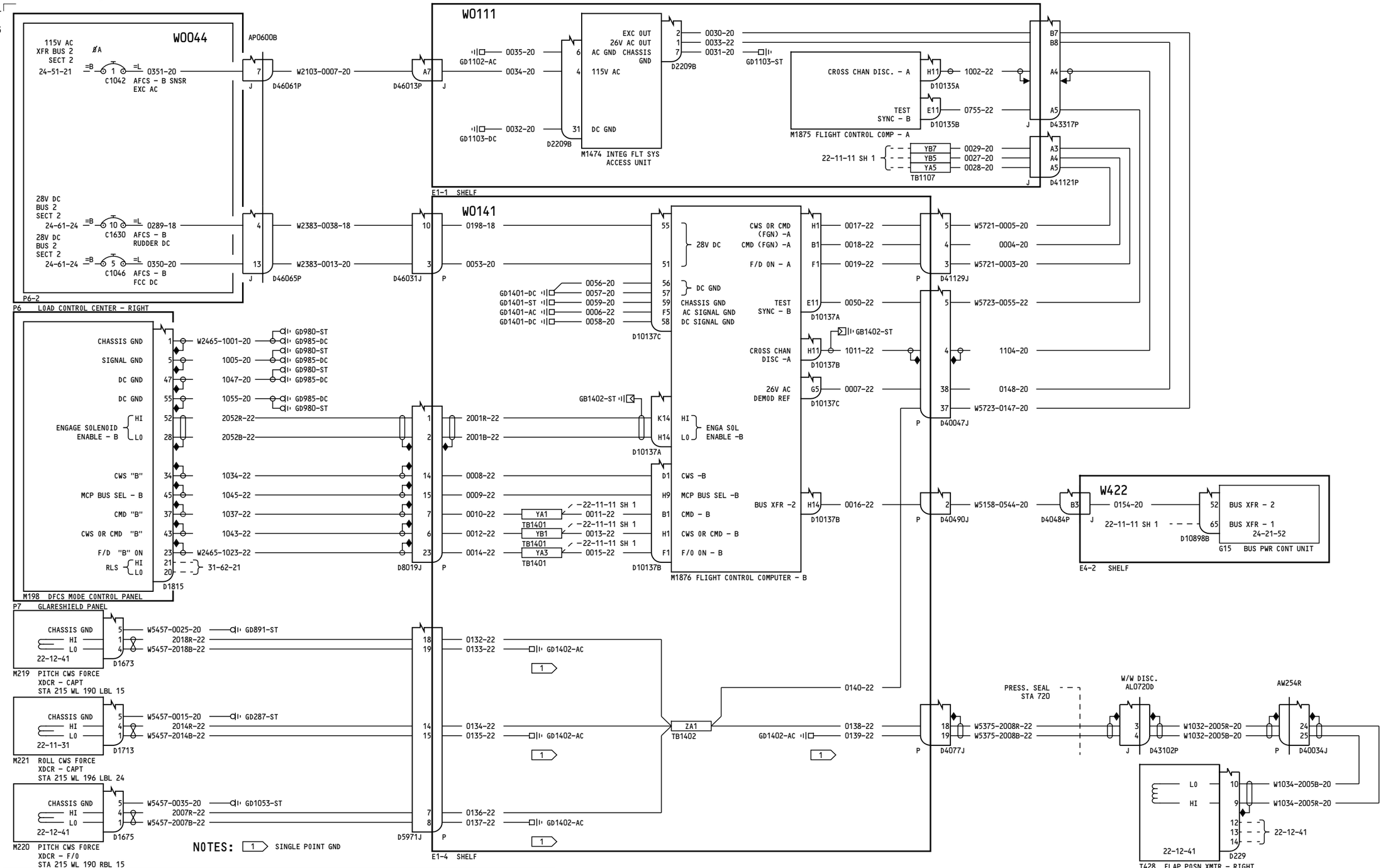

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DFCS - A AND B FCC POWER AND 26V AC EXCITATION

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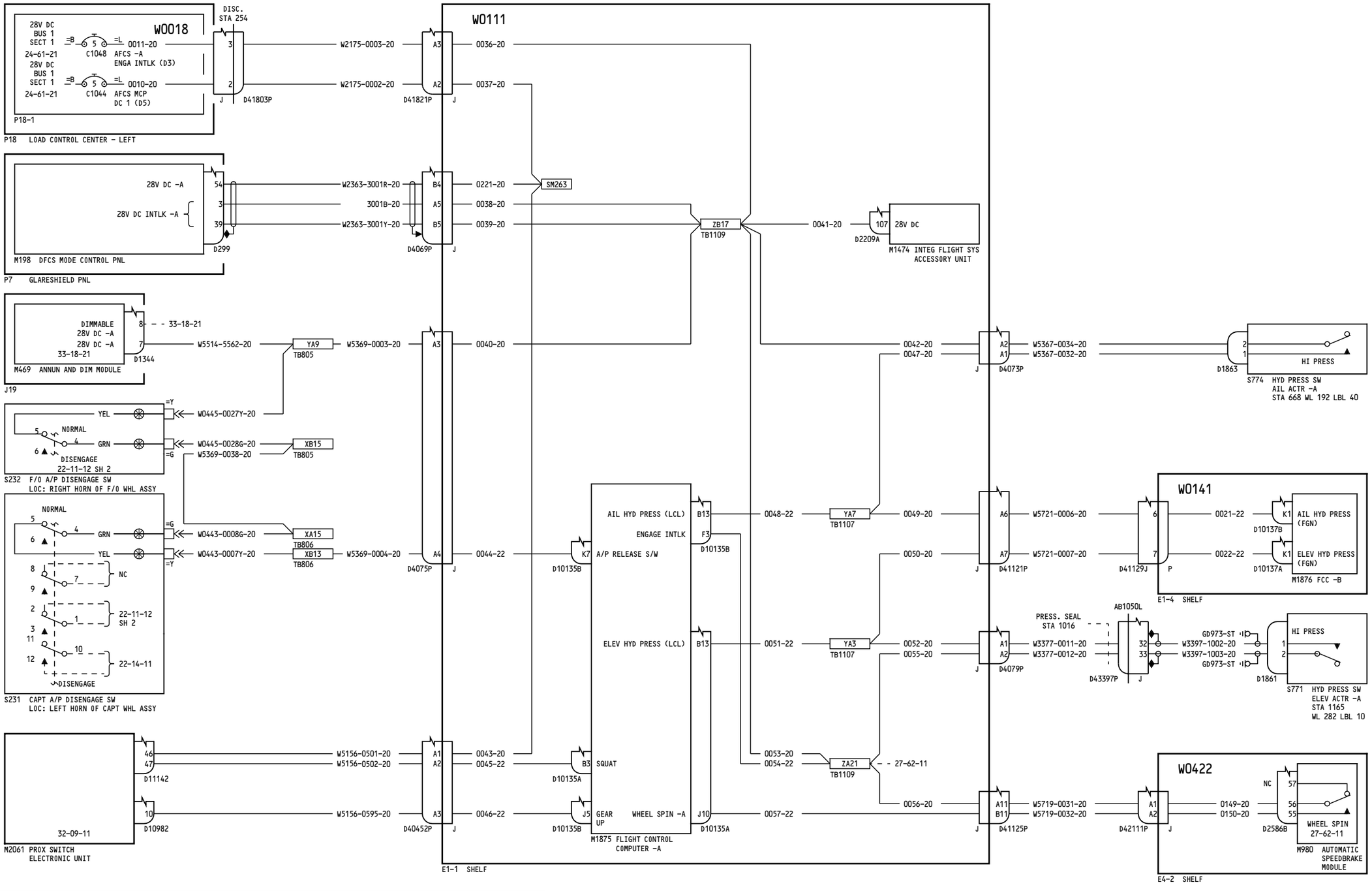

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DFCS - A AND B SYSTEM INTERLOCKS

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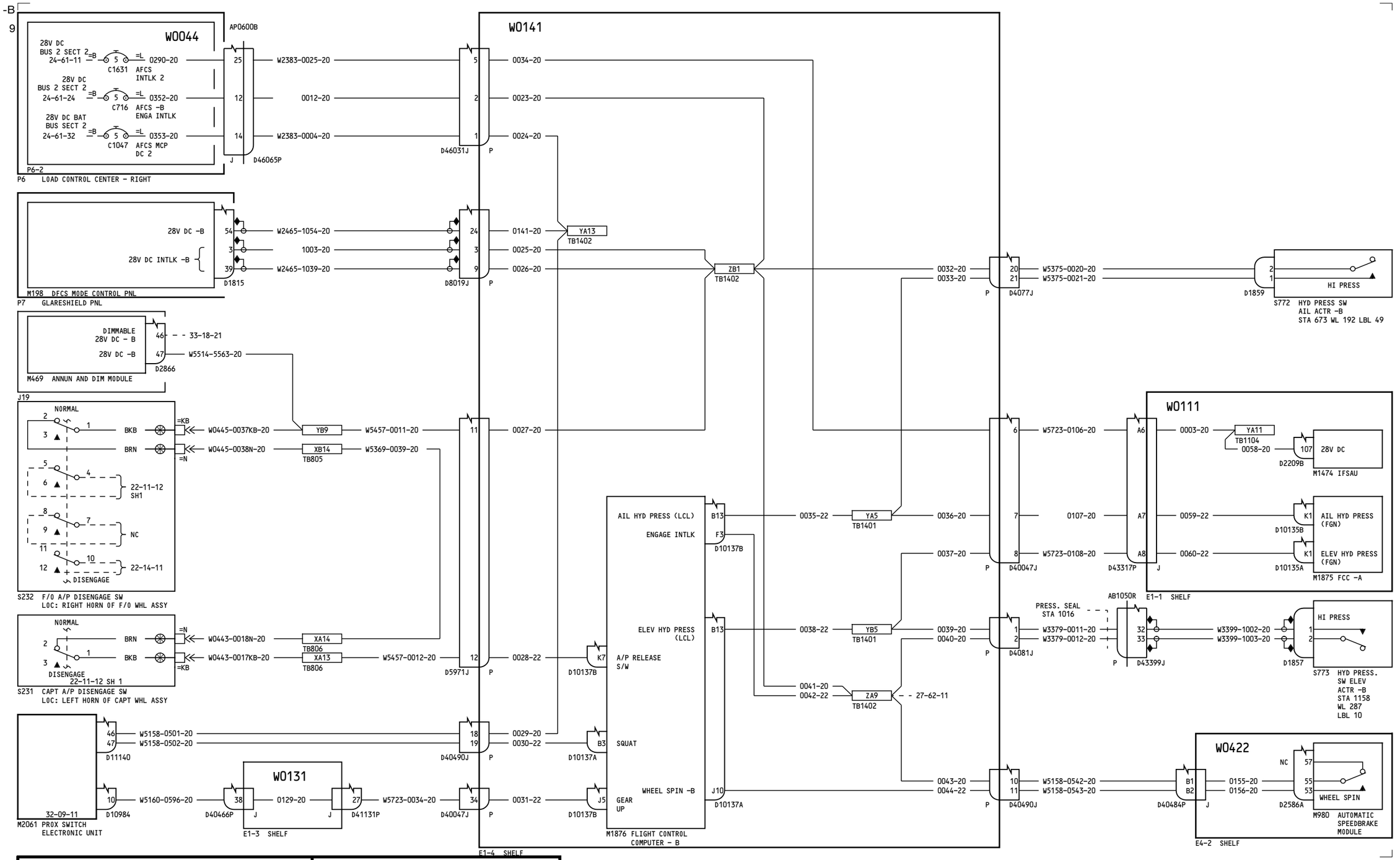

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DFCS - A AND B SYSTEM INTERLOCKS

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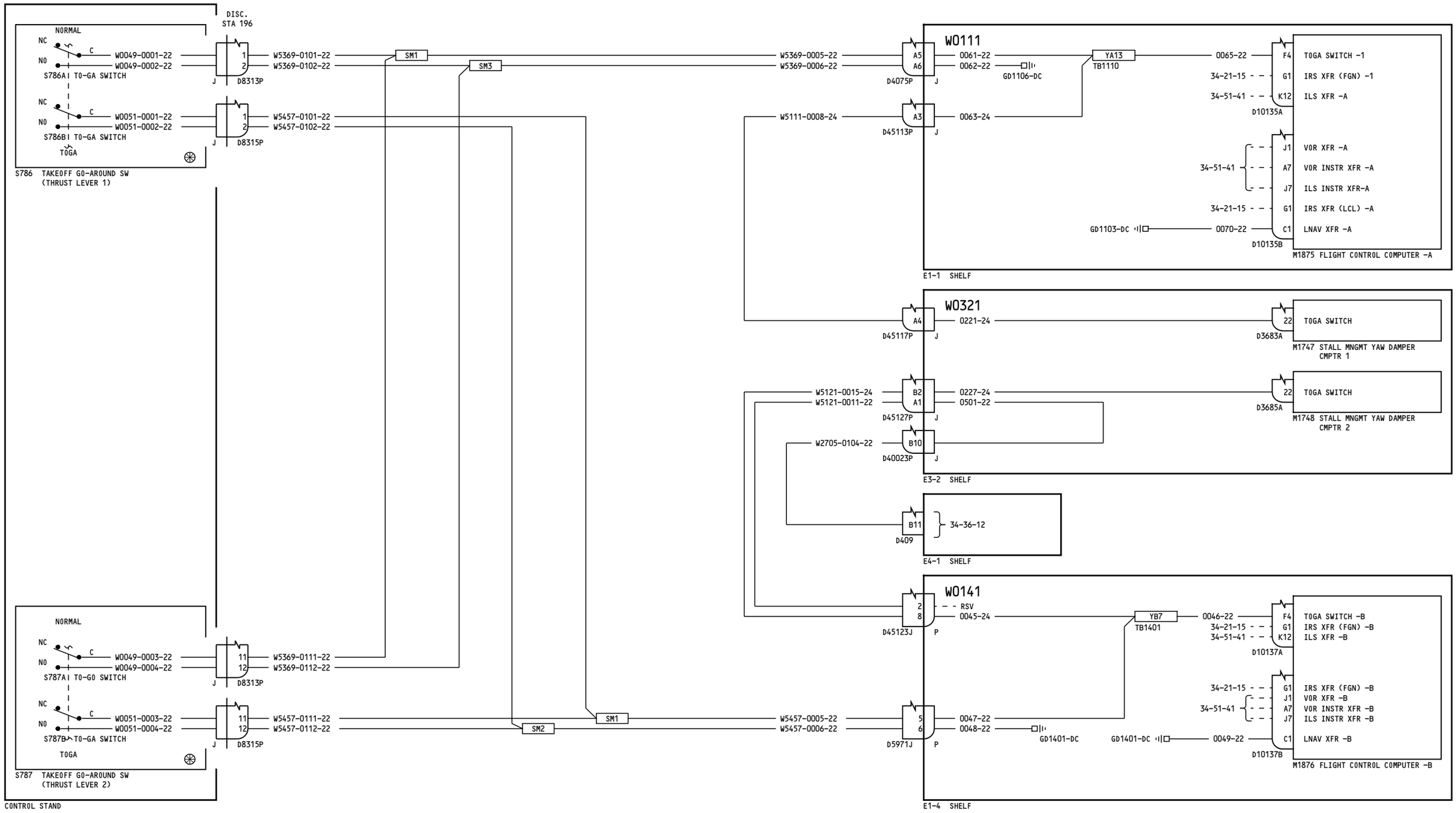

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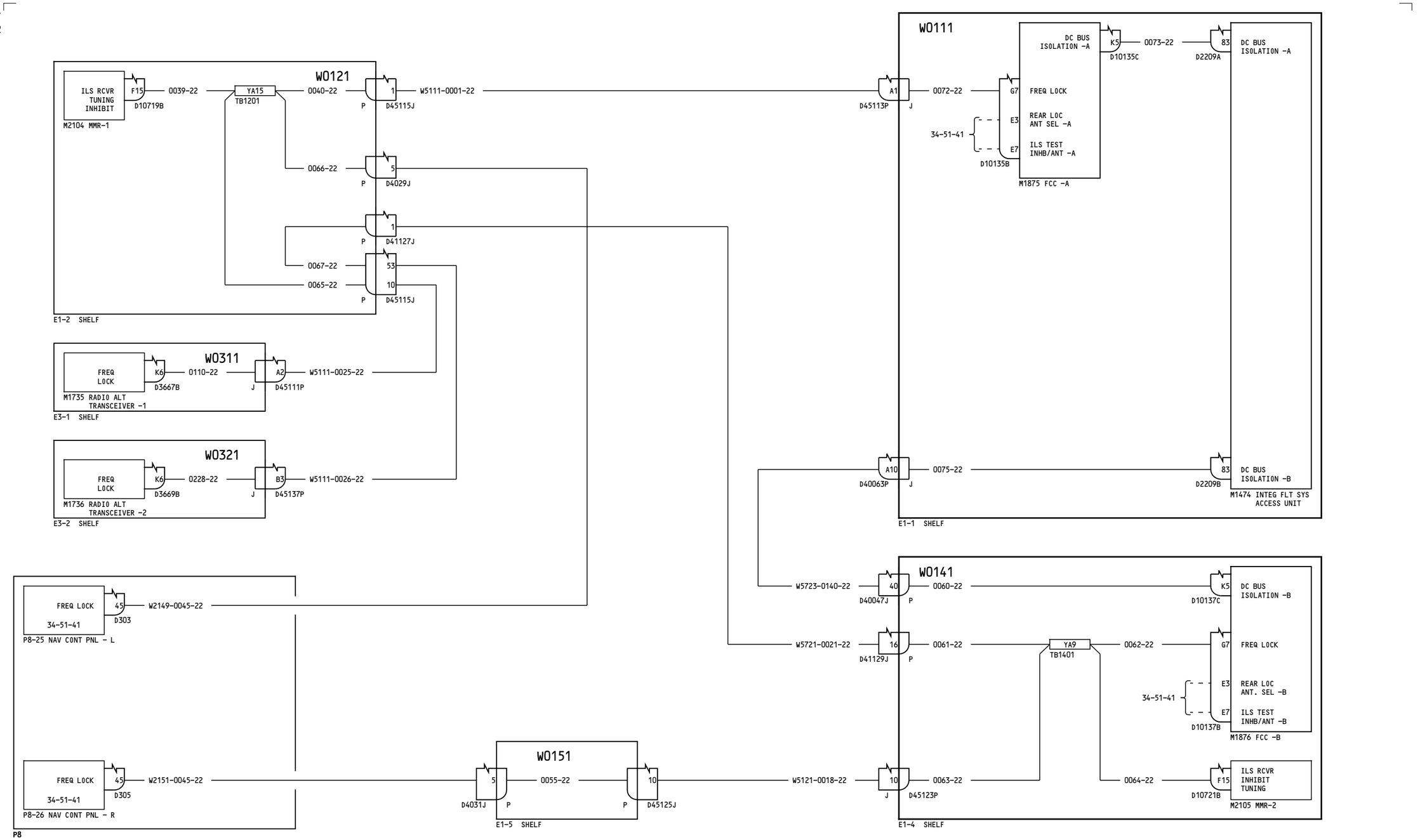

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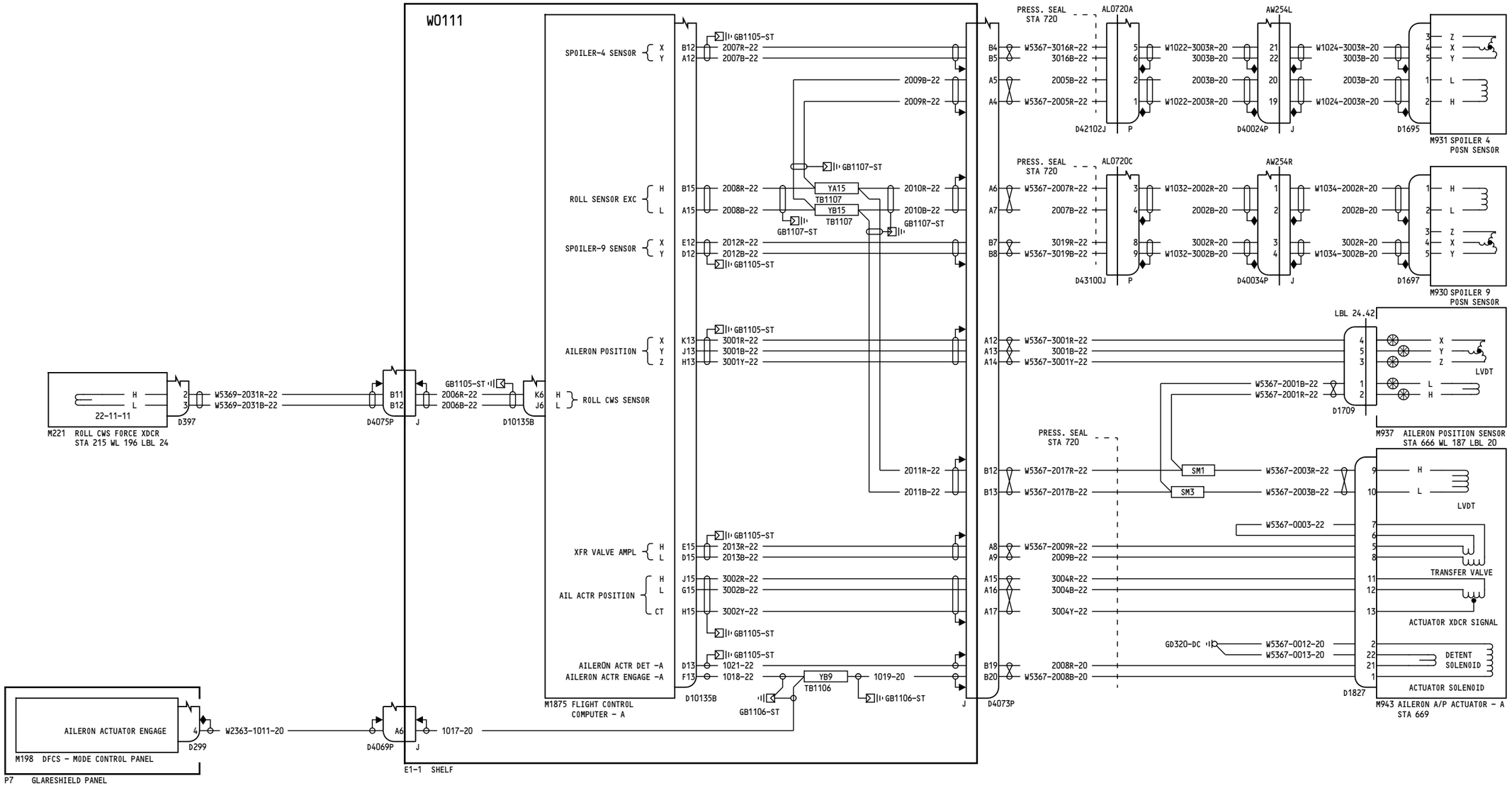

ALL	**DFCS - A AND B A/P ROLL SENSORS AND ACTUATORS**
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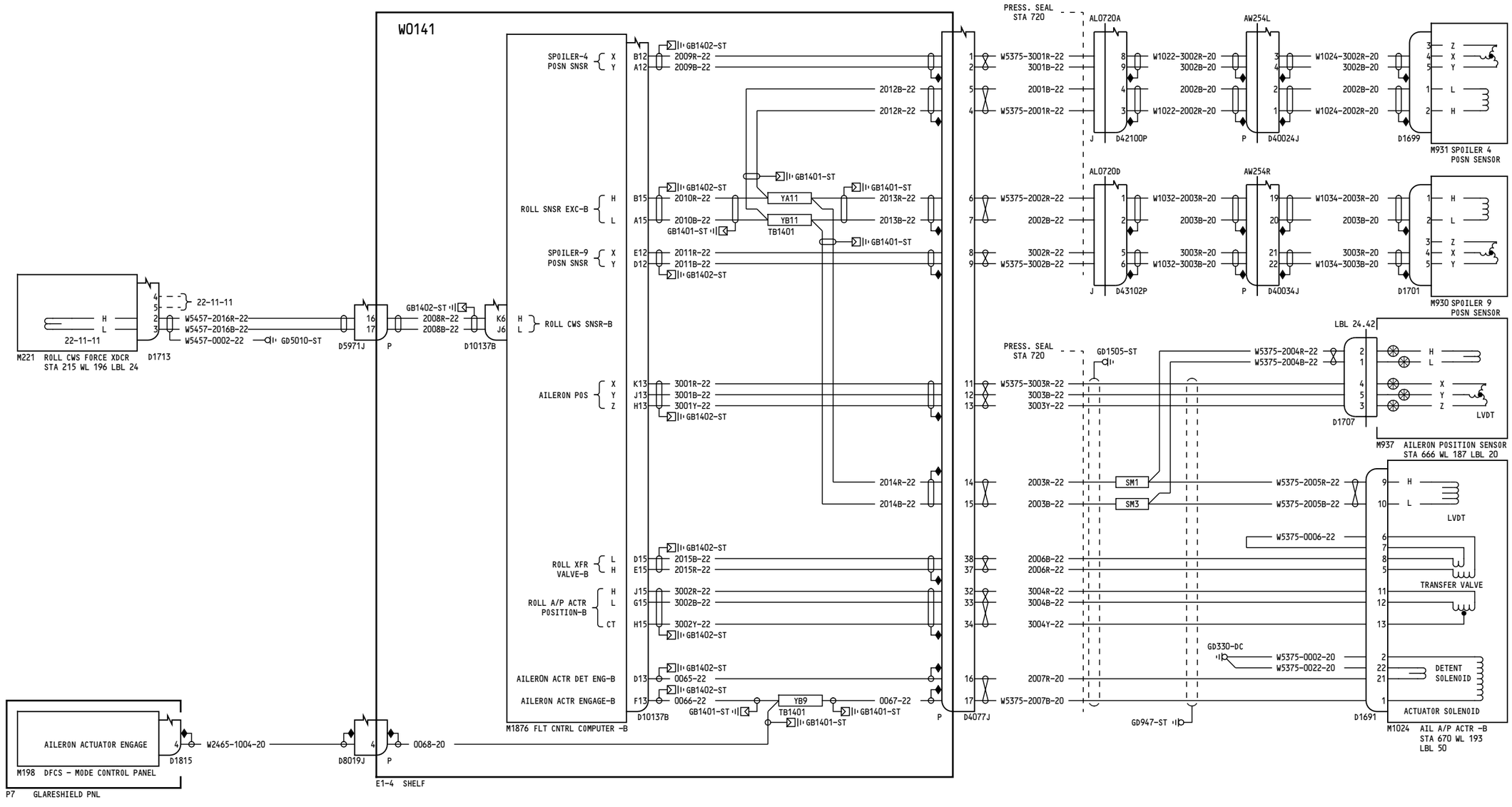

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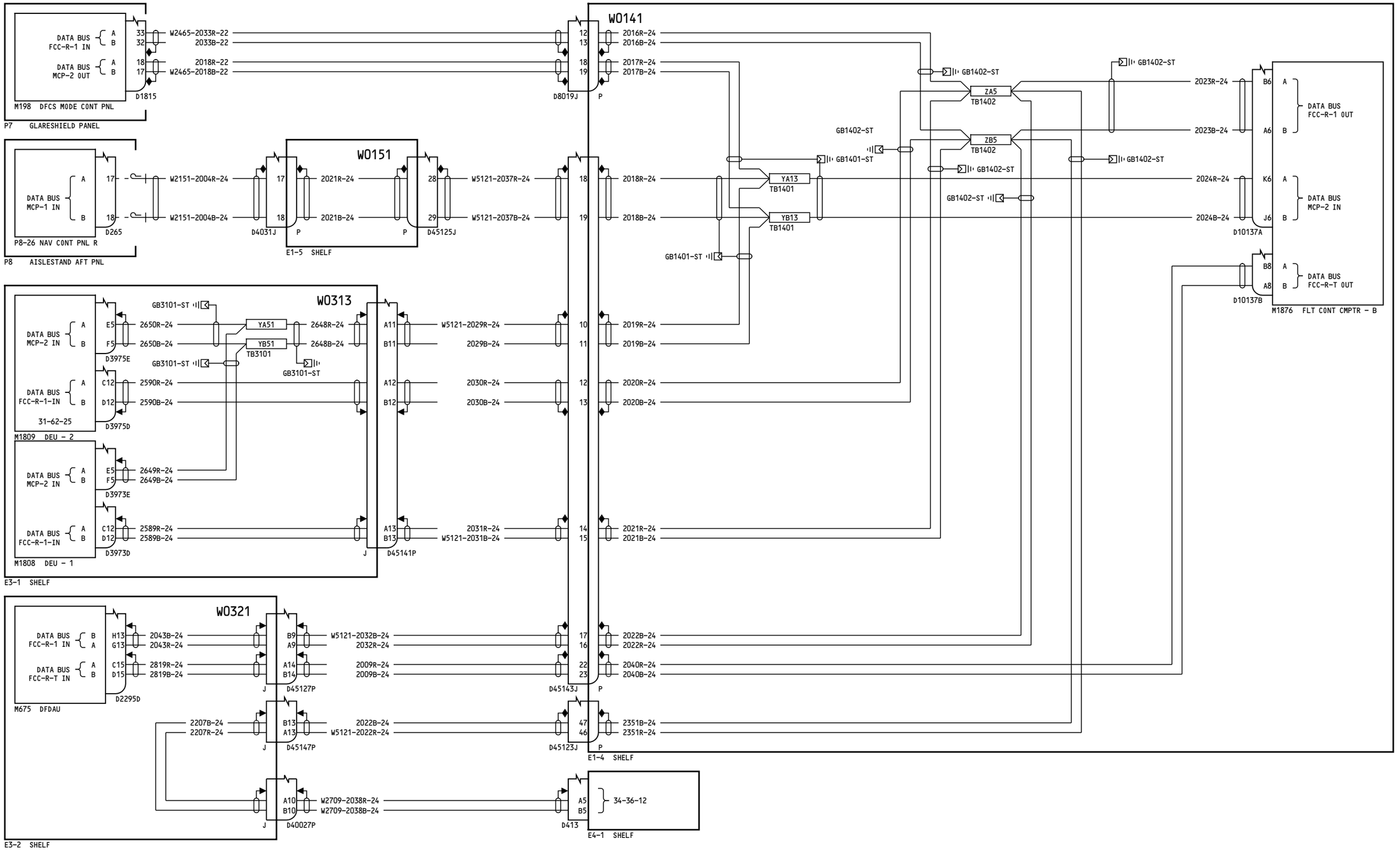

YT101-YT103

DFCS - DIGITAL BUS INTERFACES - OUTPUT

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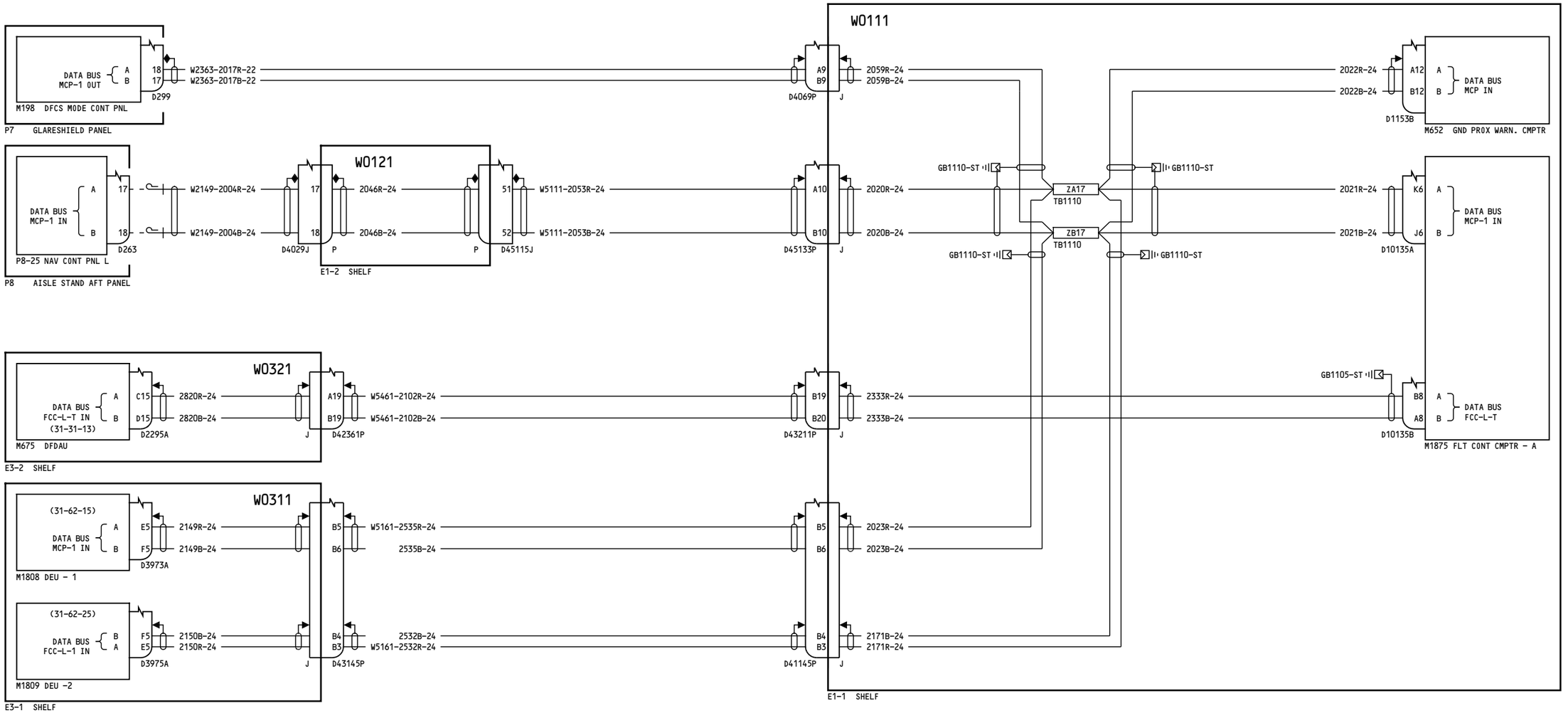

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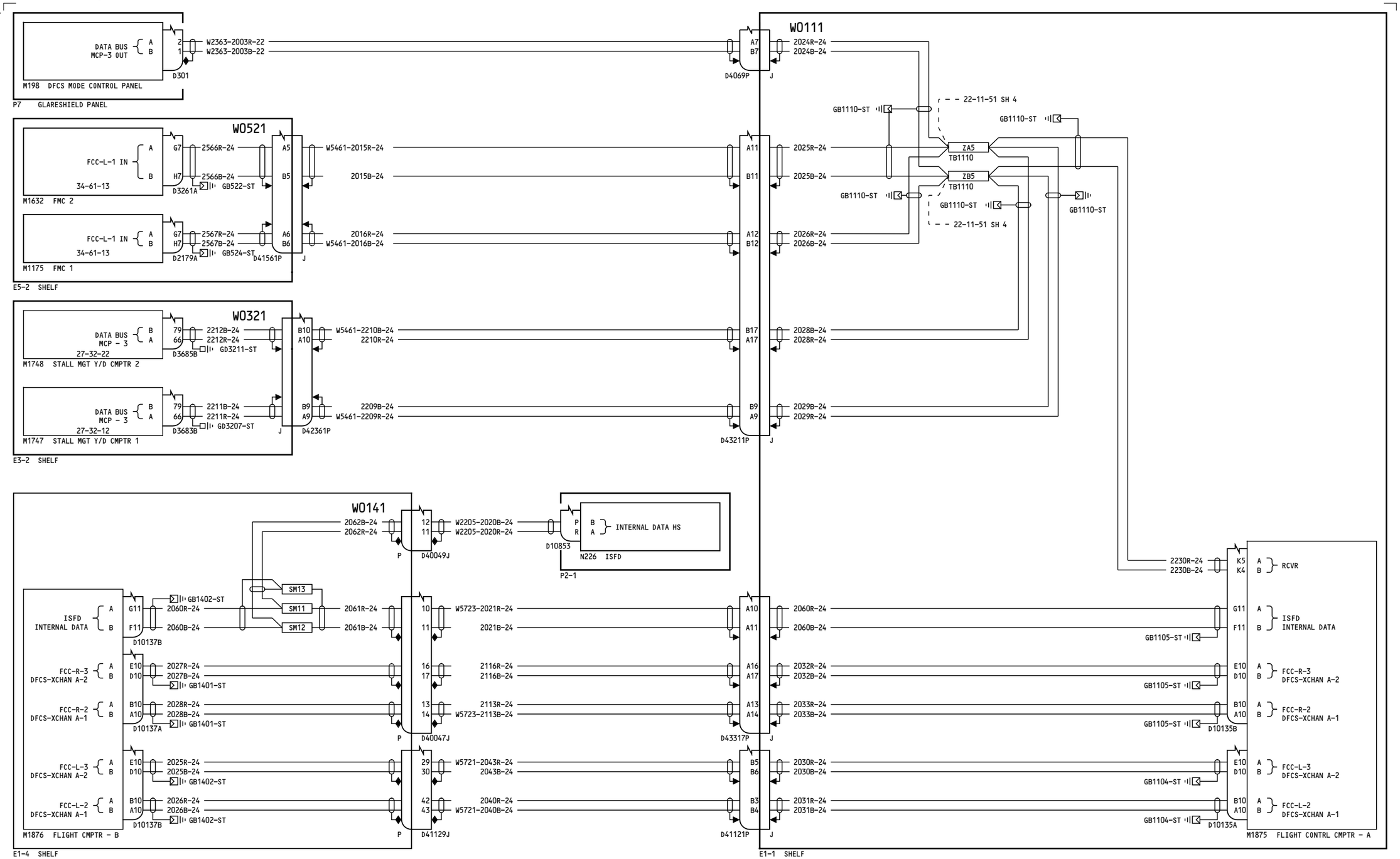

YT101-YT103

DFCS - DIGITAL BUS INTERFACES - OUTPUT

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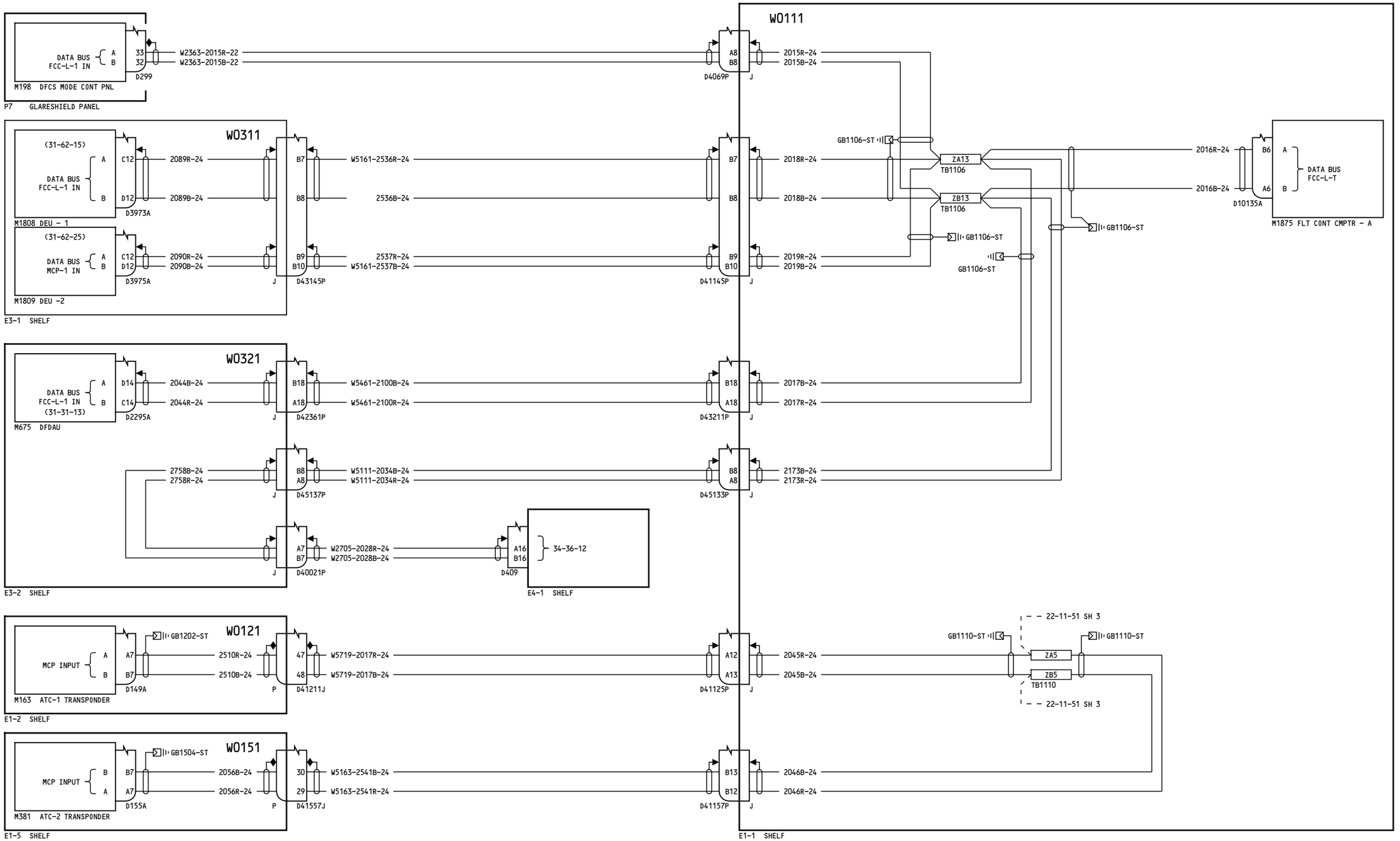

YT101-YT103

DFCS - DIGITAL BUS INTERFACES - OUTPUT

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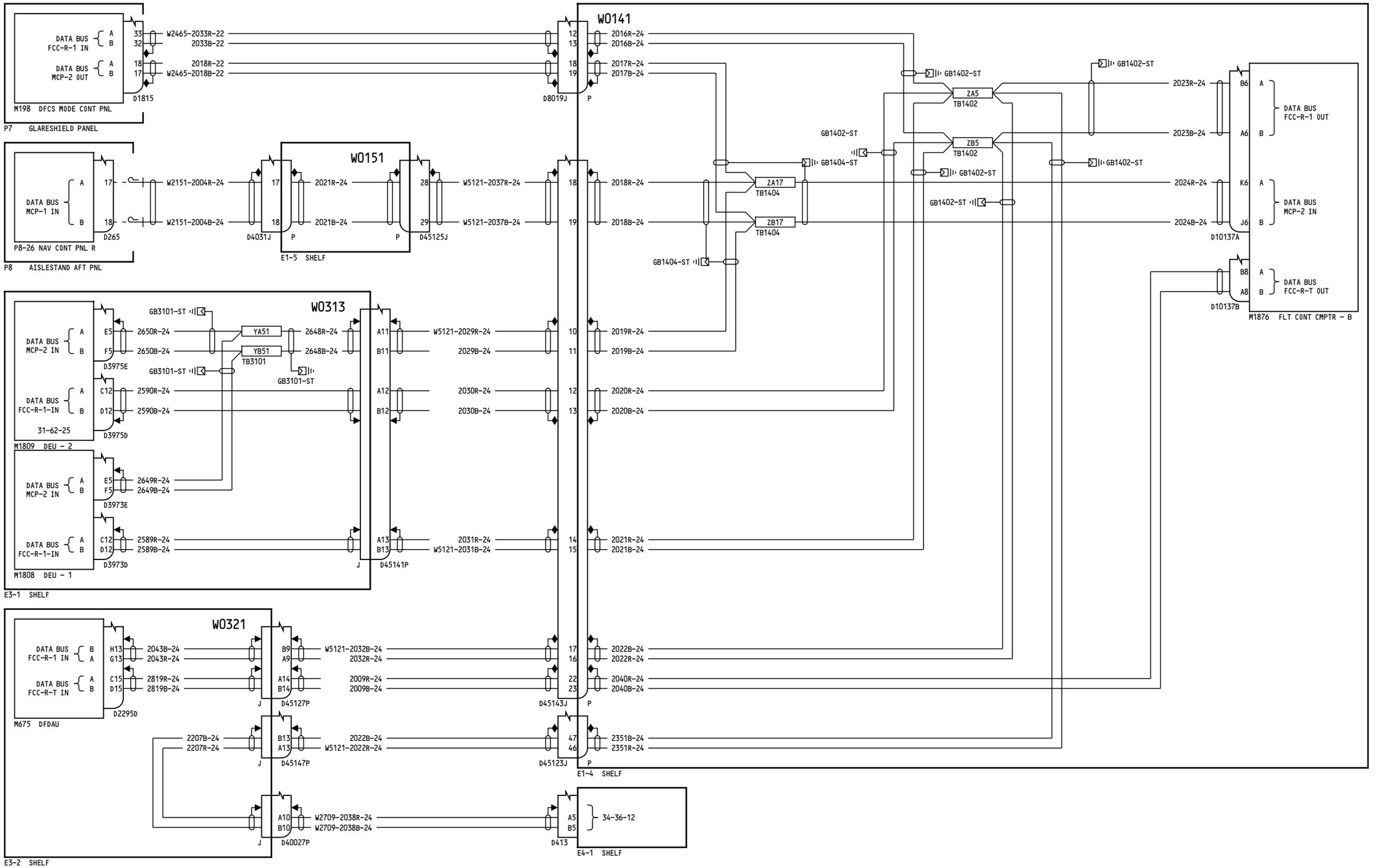

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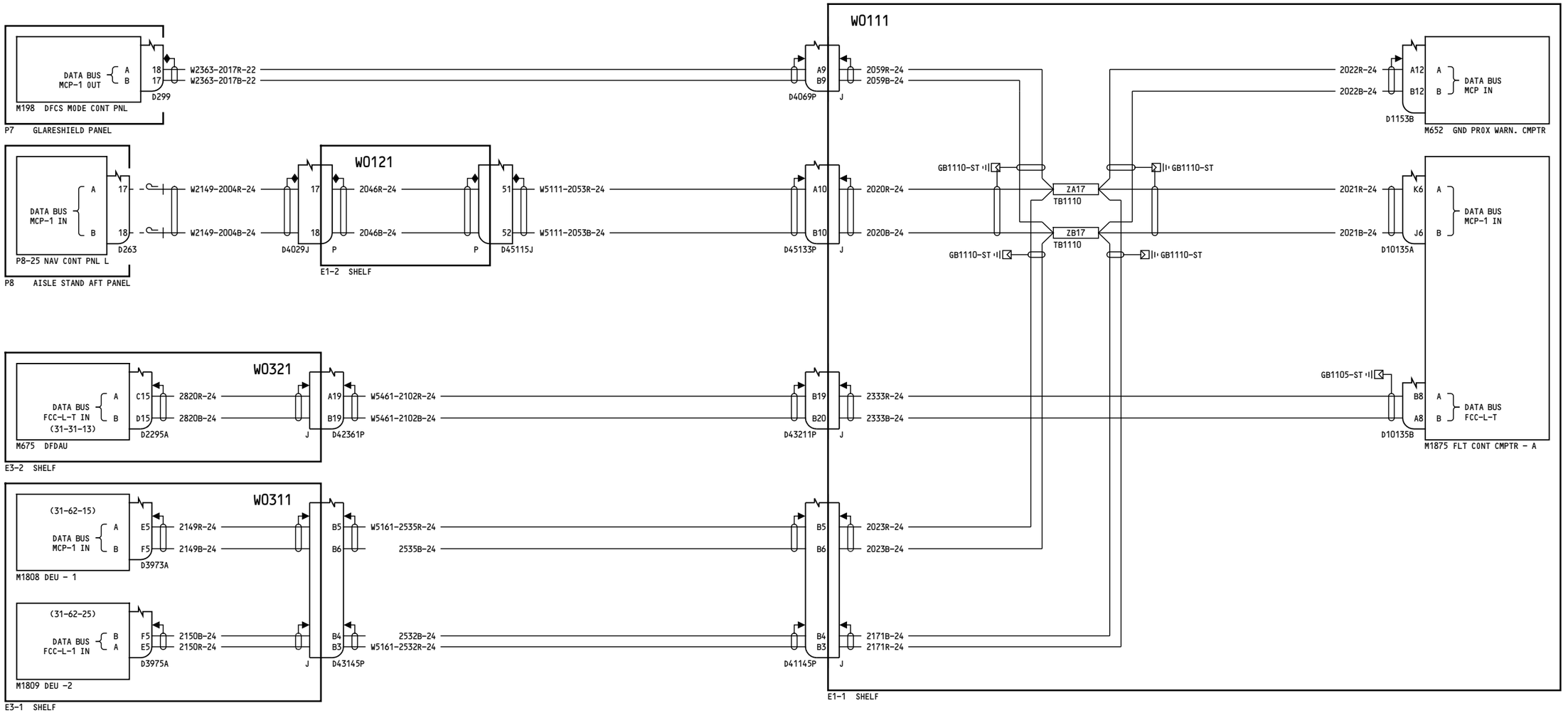

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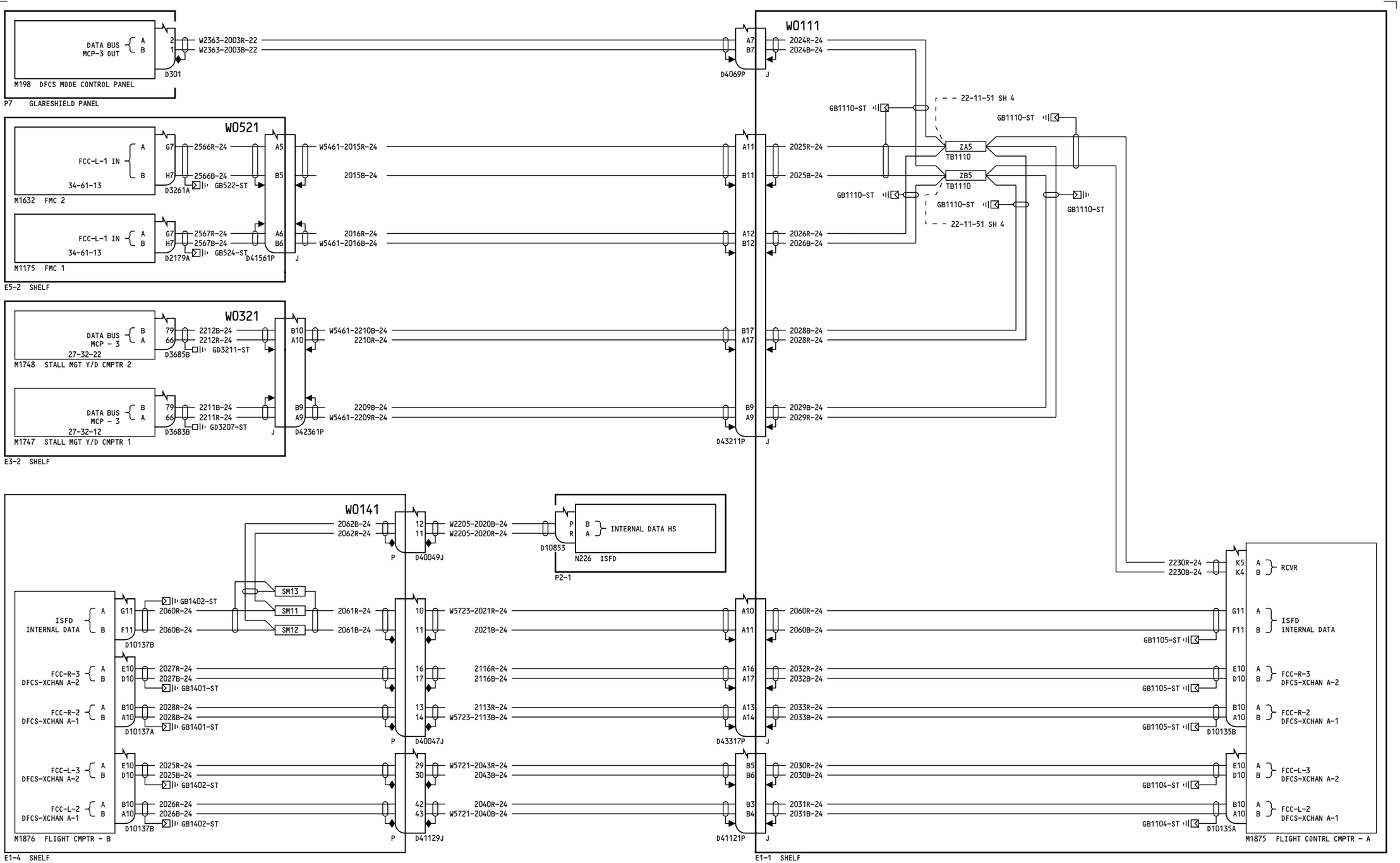

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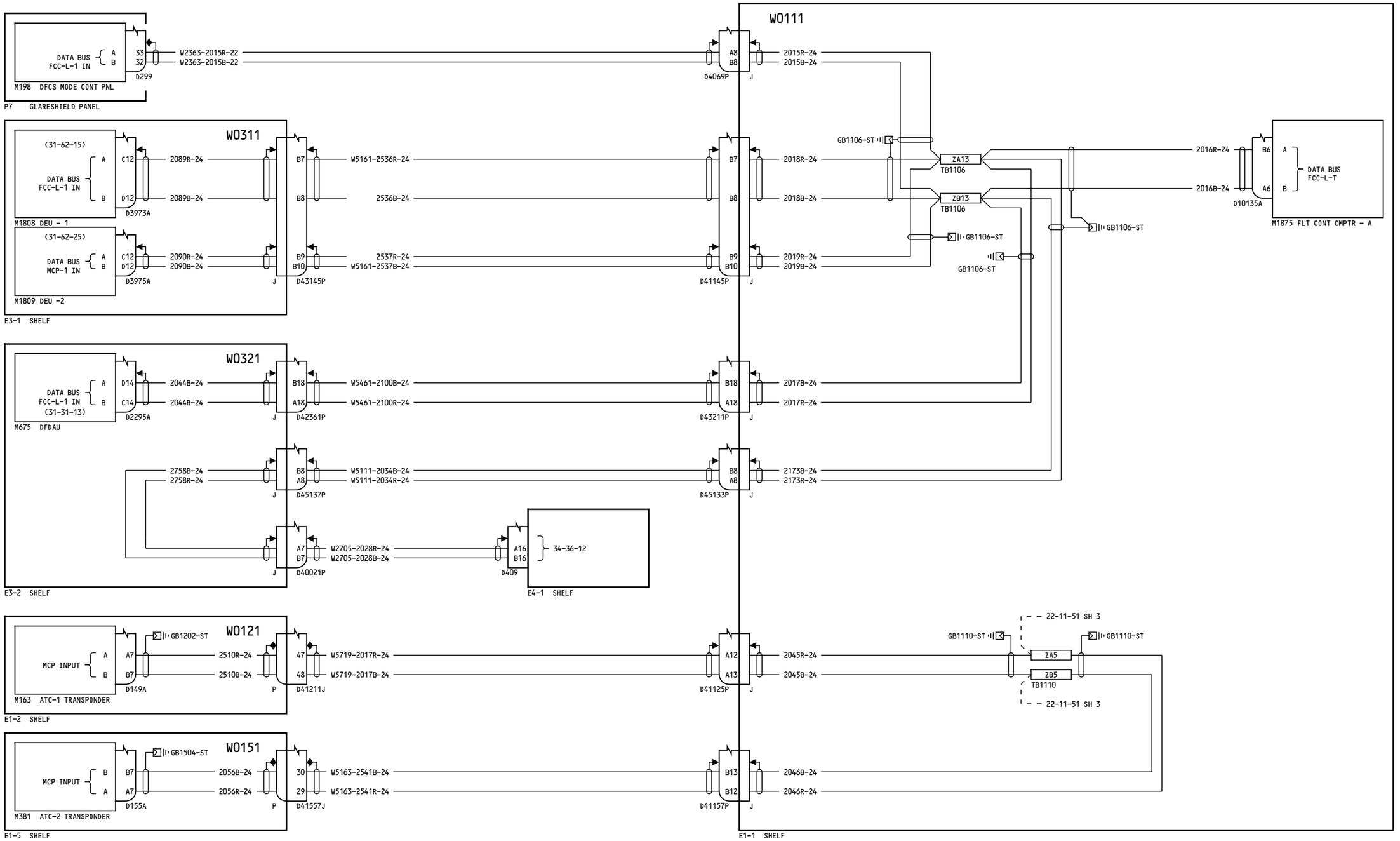

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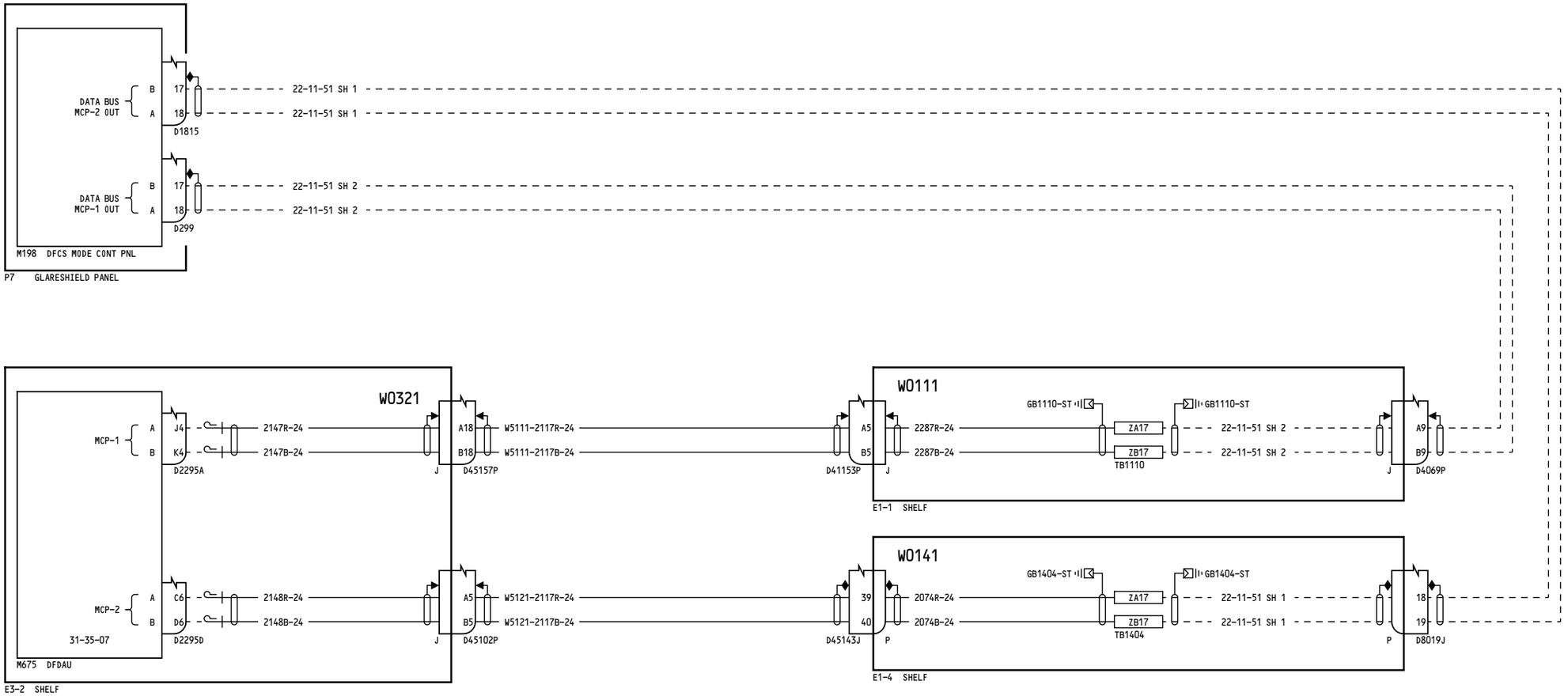

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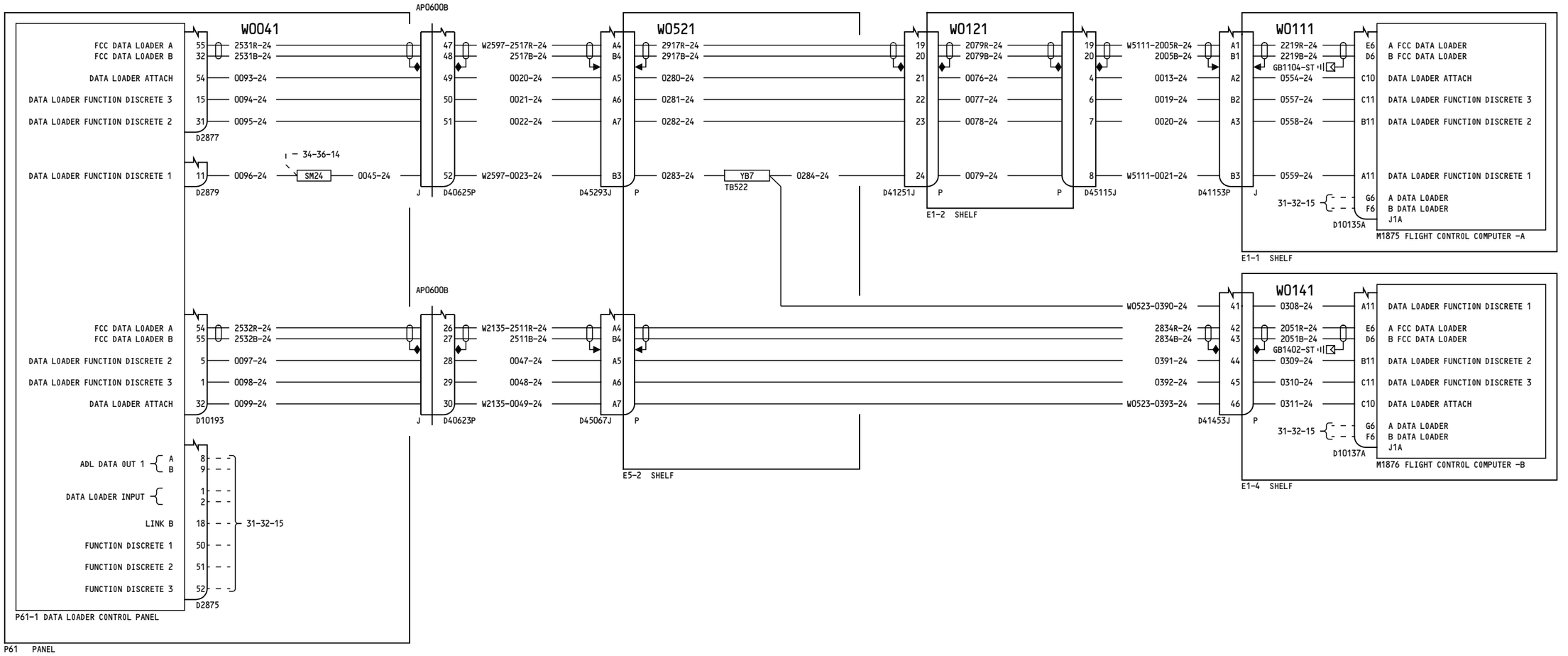

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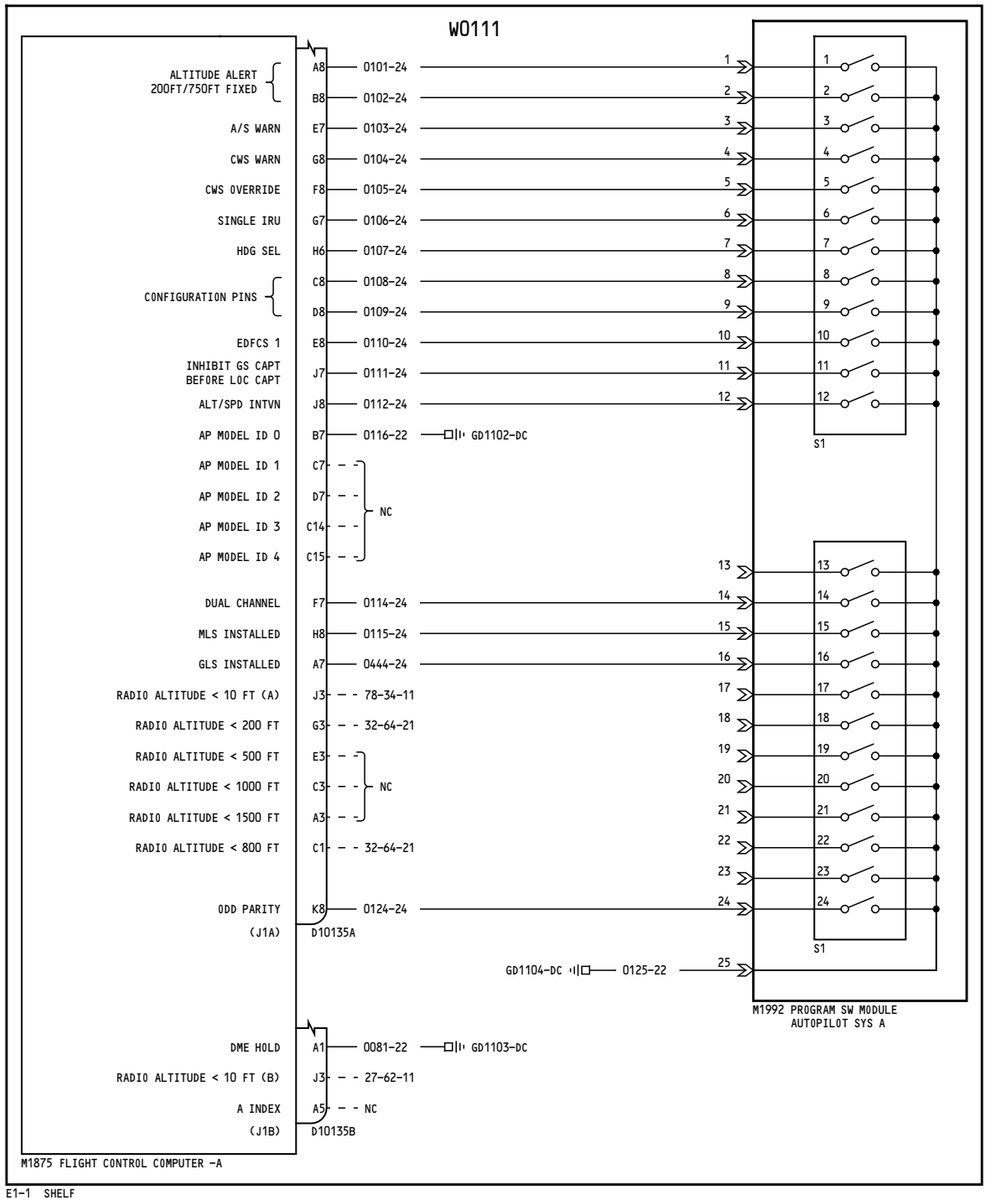

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0	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104

DFCS - A AND B OPTION PINS

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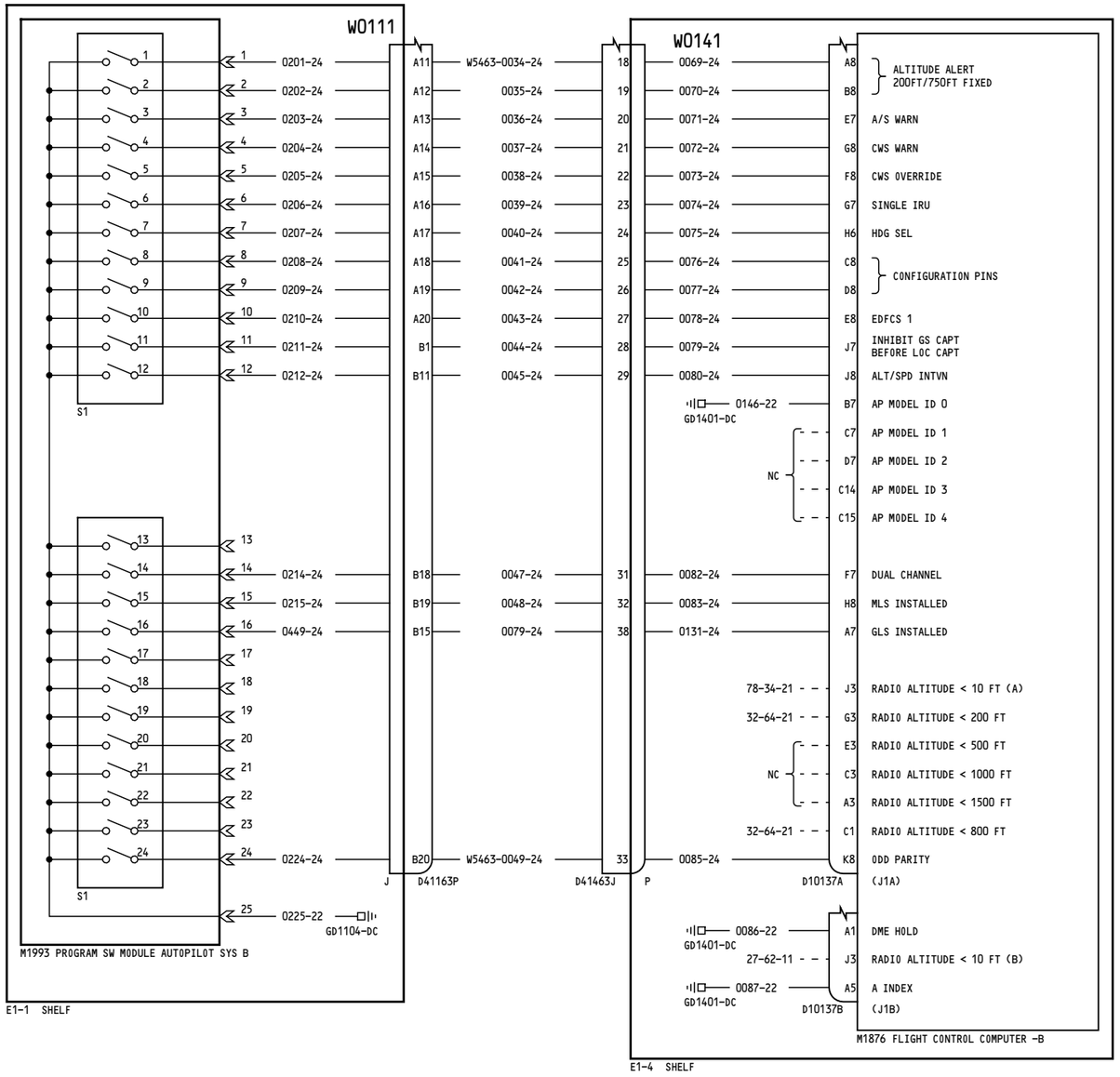

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M1993																							(W0119)
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0	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104	**DFCS - A AND B OPTION PINS**
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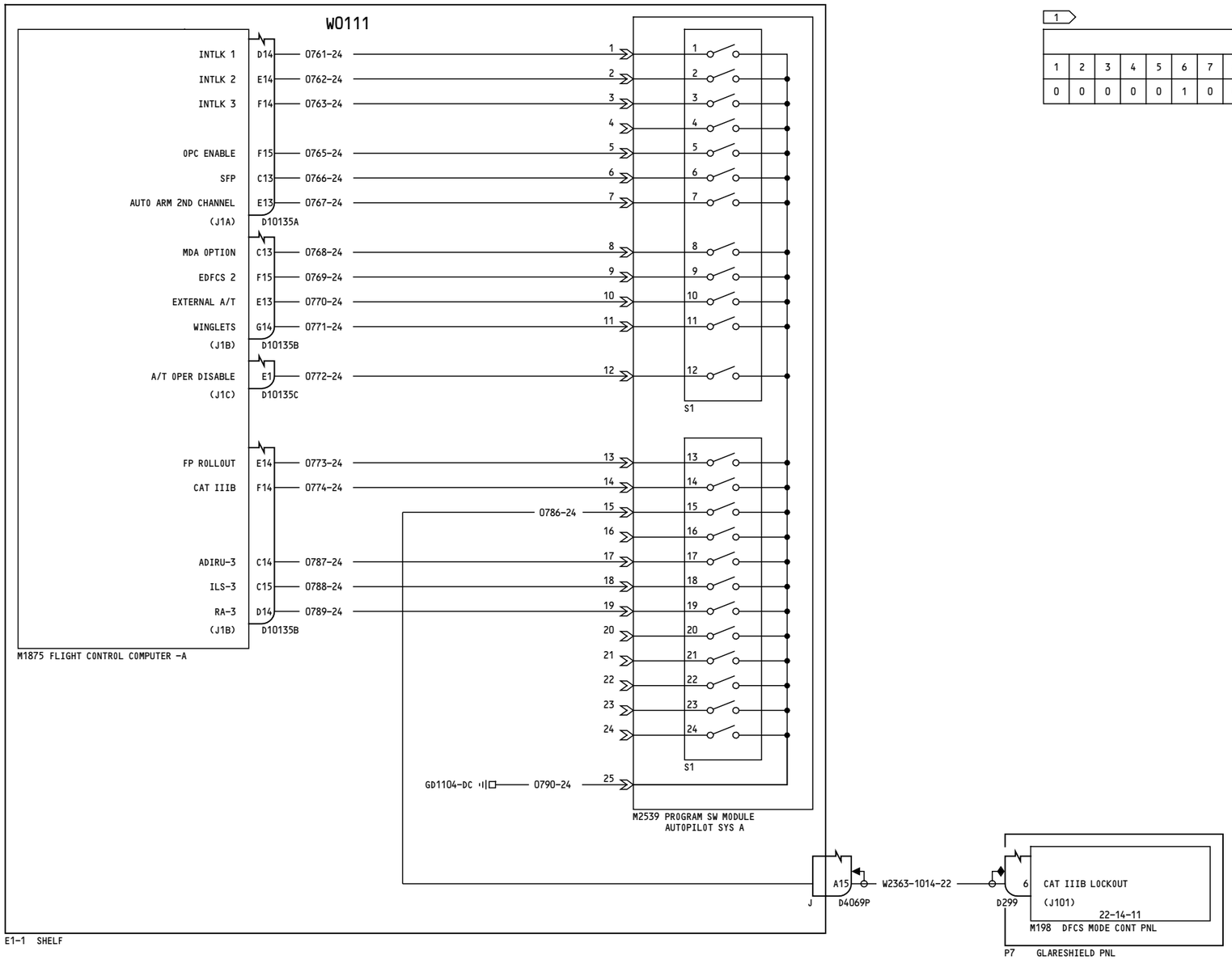

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M2539																							(W0119)
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0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104	DFCS - A AND B OPTION PINS
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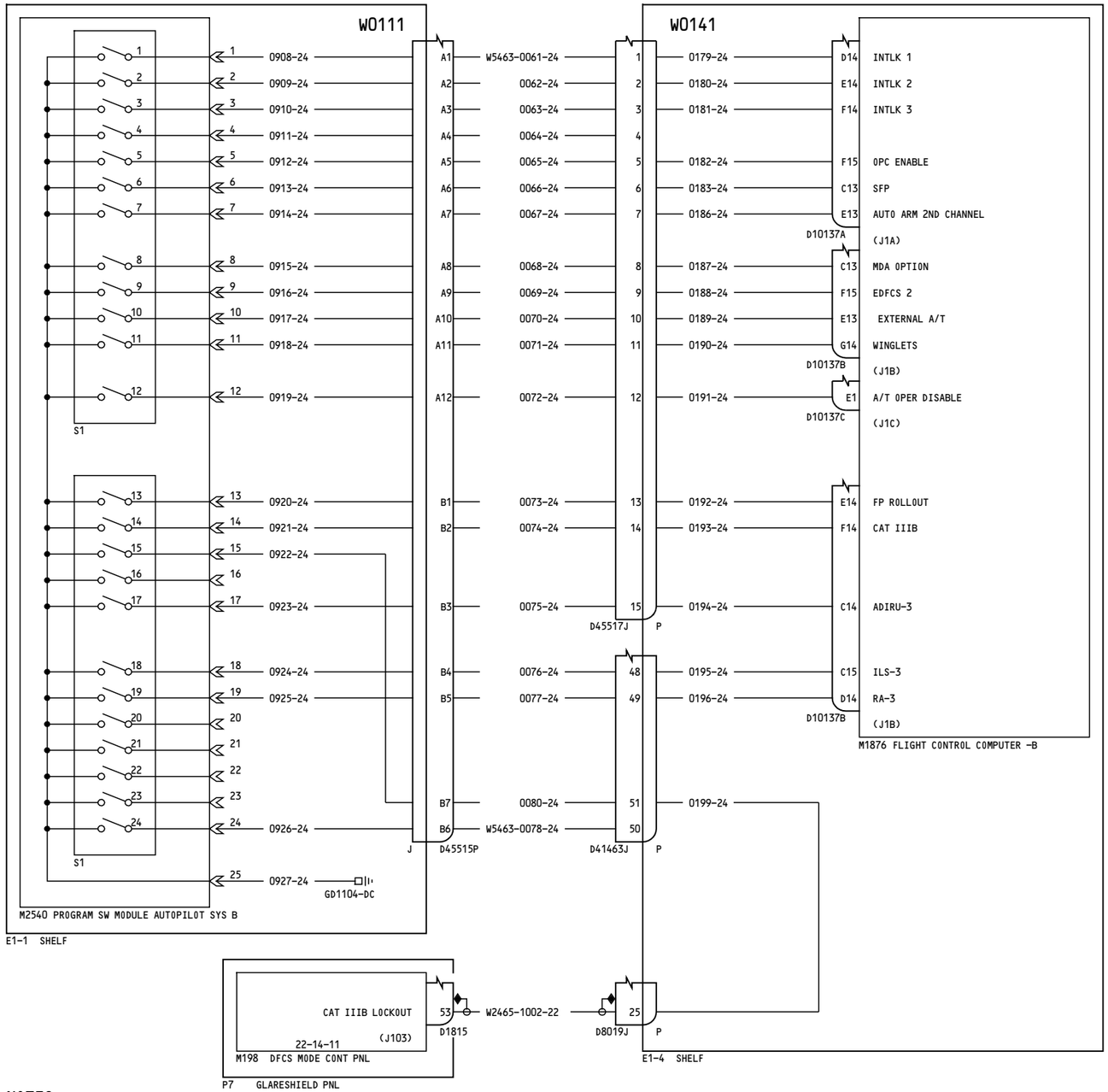

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0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

1. SEE CHART FOR SWITCH POSITION
   LOGIC "1" SWITCH IS ON (CLOSED)
   LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104

DFCS - A AND B OPTION PINS

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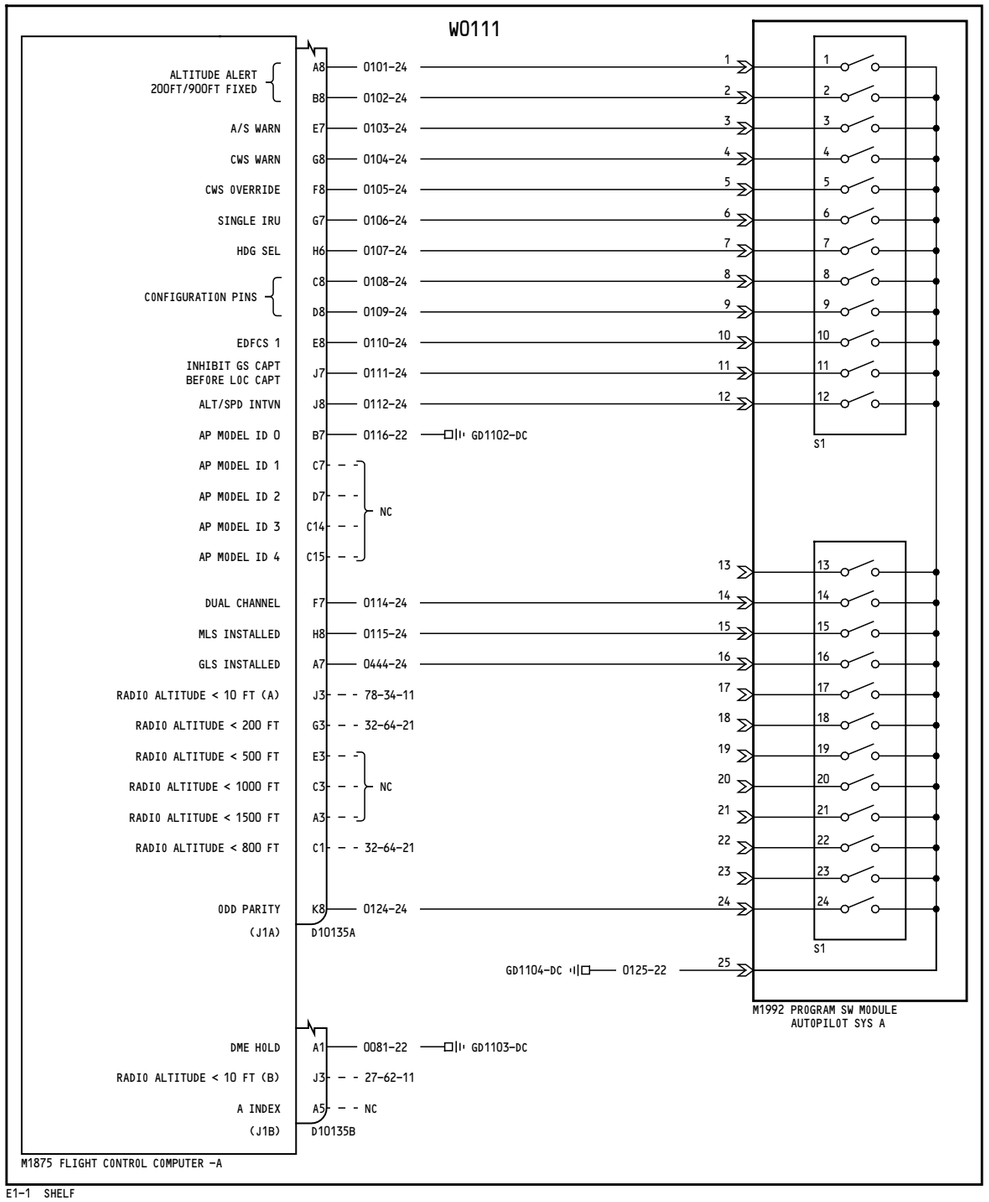

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M1992																							(W0119)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104	DFCS - A AND B OPTION PINS
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Incorporates
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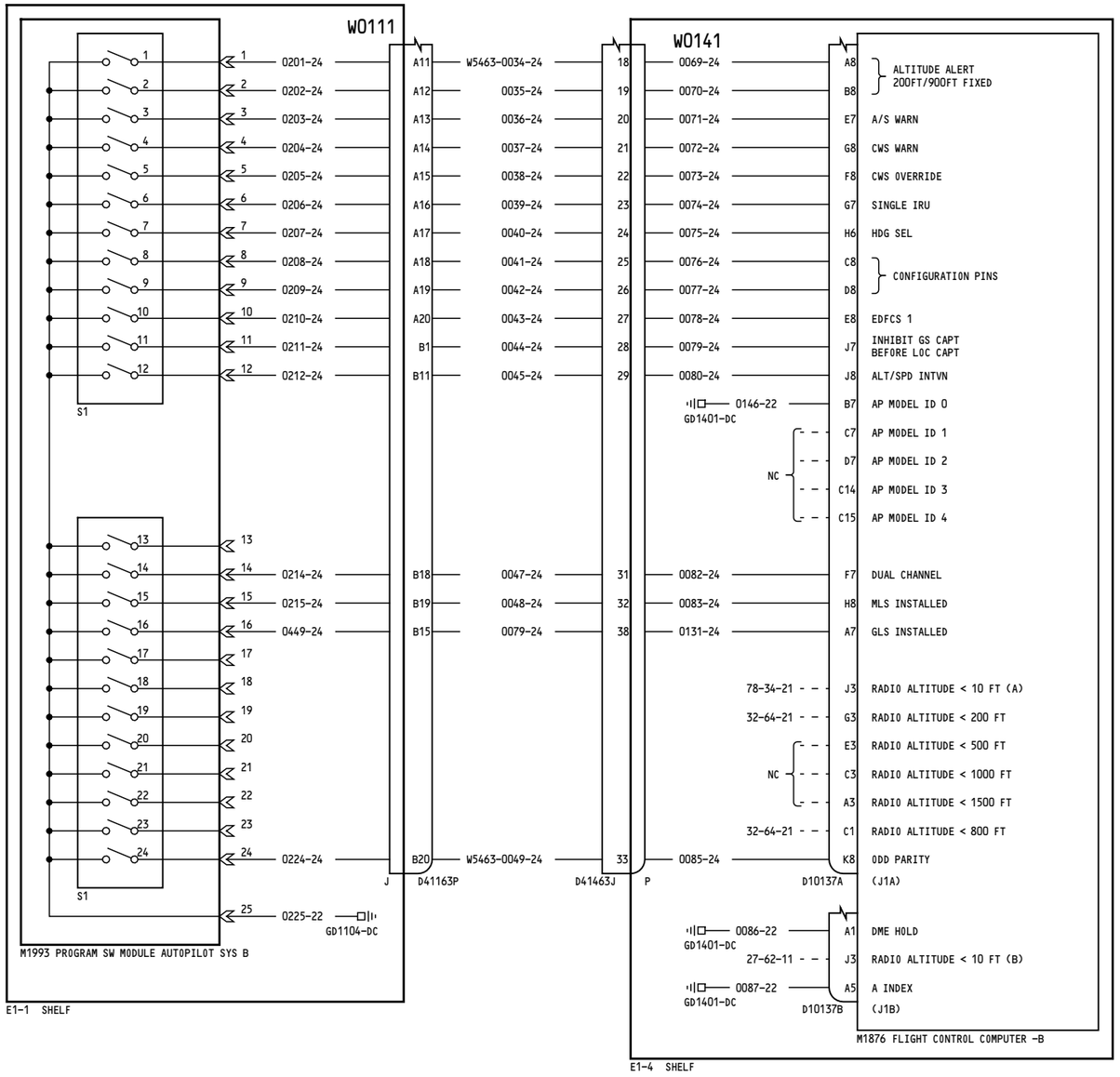
965



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M1993																							(W0119)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104

DFCS - A AND B OPTION PINS

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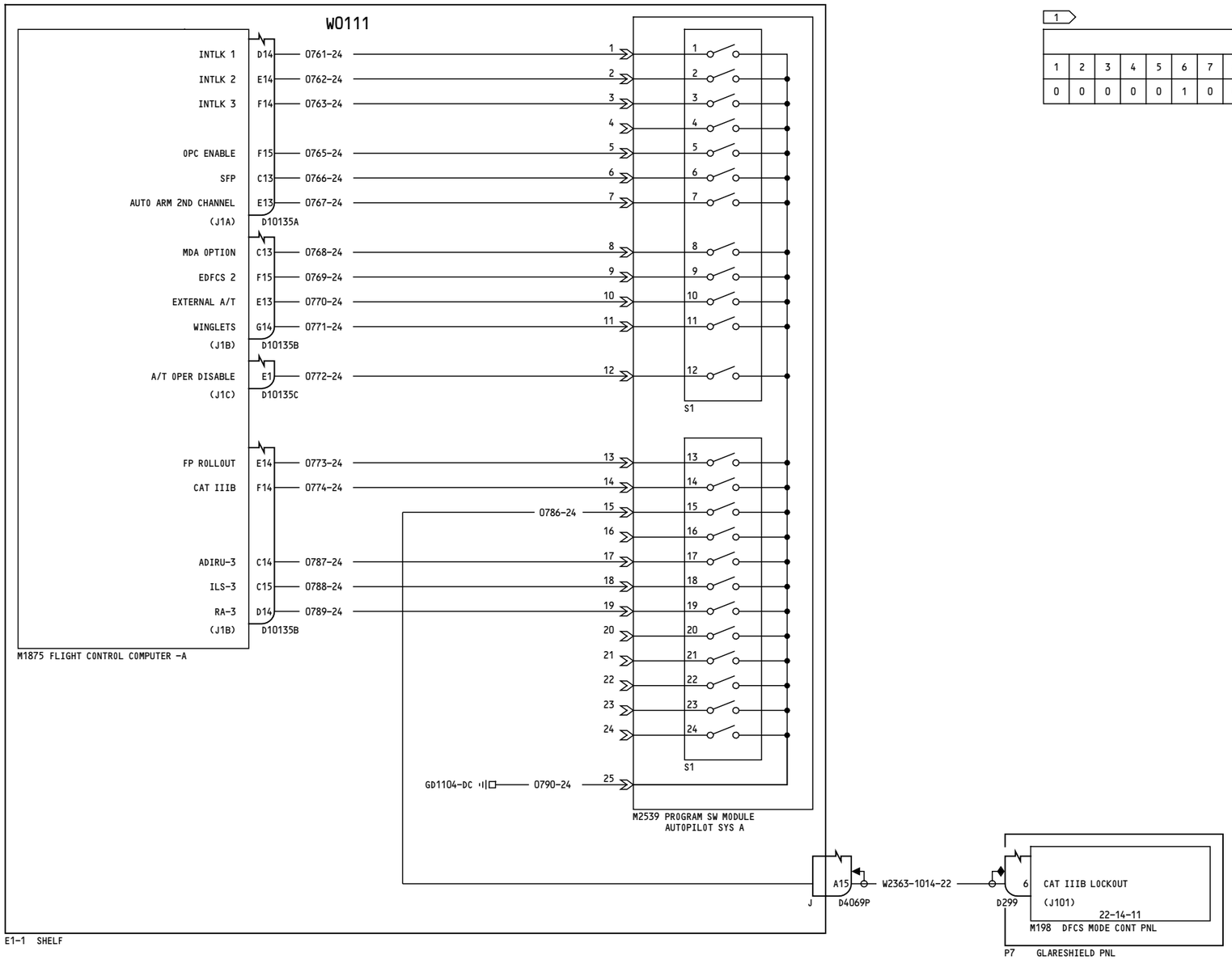

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M2539																							(W0119)
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0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104	DFCS - A AND B OPTION PINS
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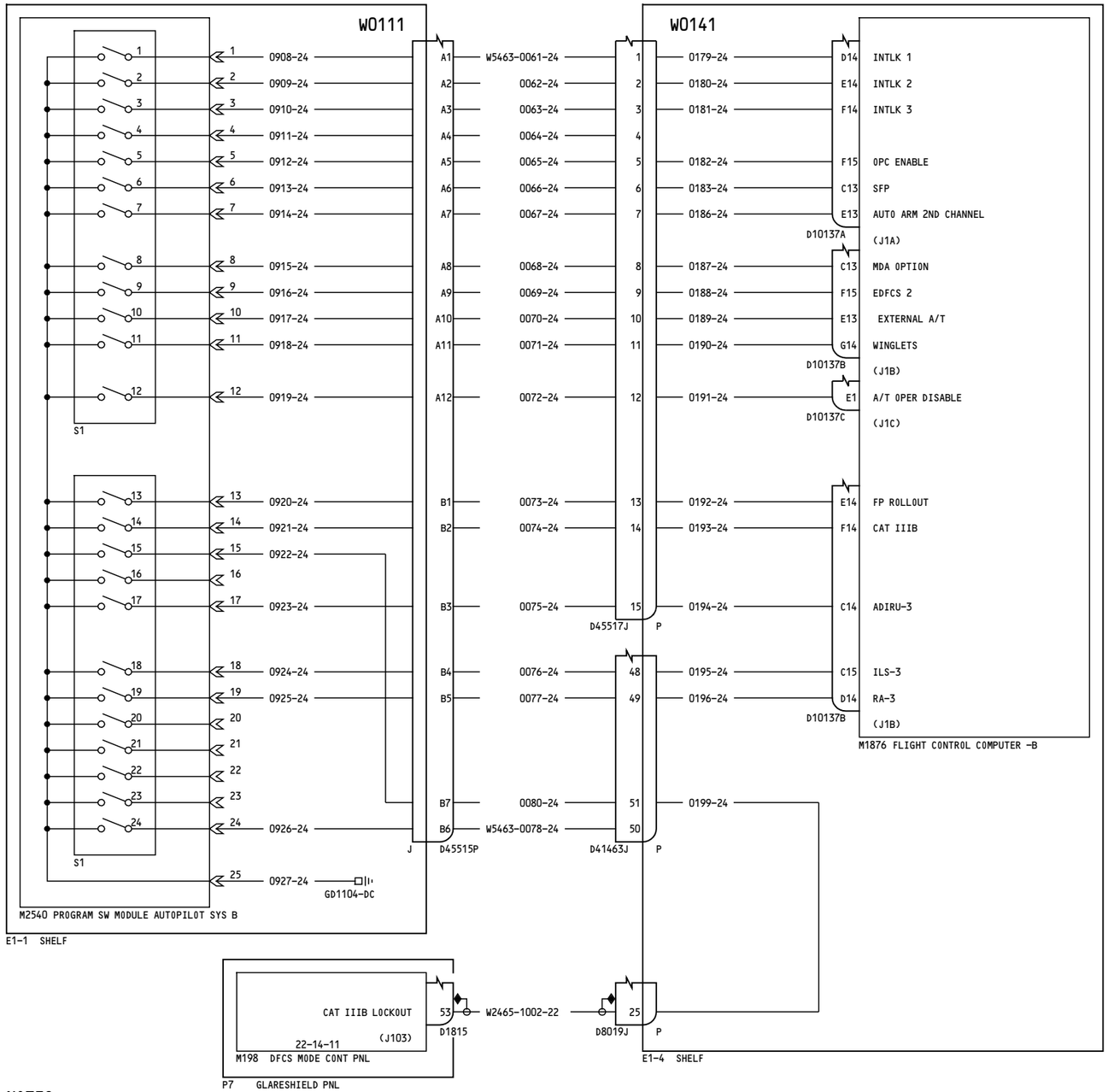

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	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

1. SEE CHART FOR SWITCH POSITION
   LOGIC "1" SWITCH IS ON (CLOSED)
   LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104	DFCS - A AND B OPTION PINS
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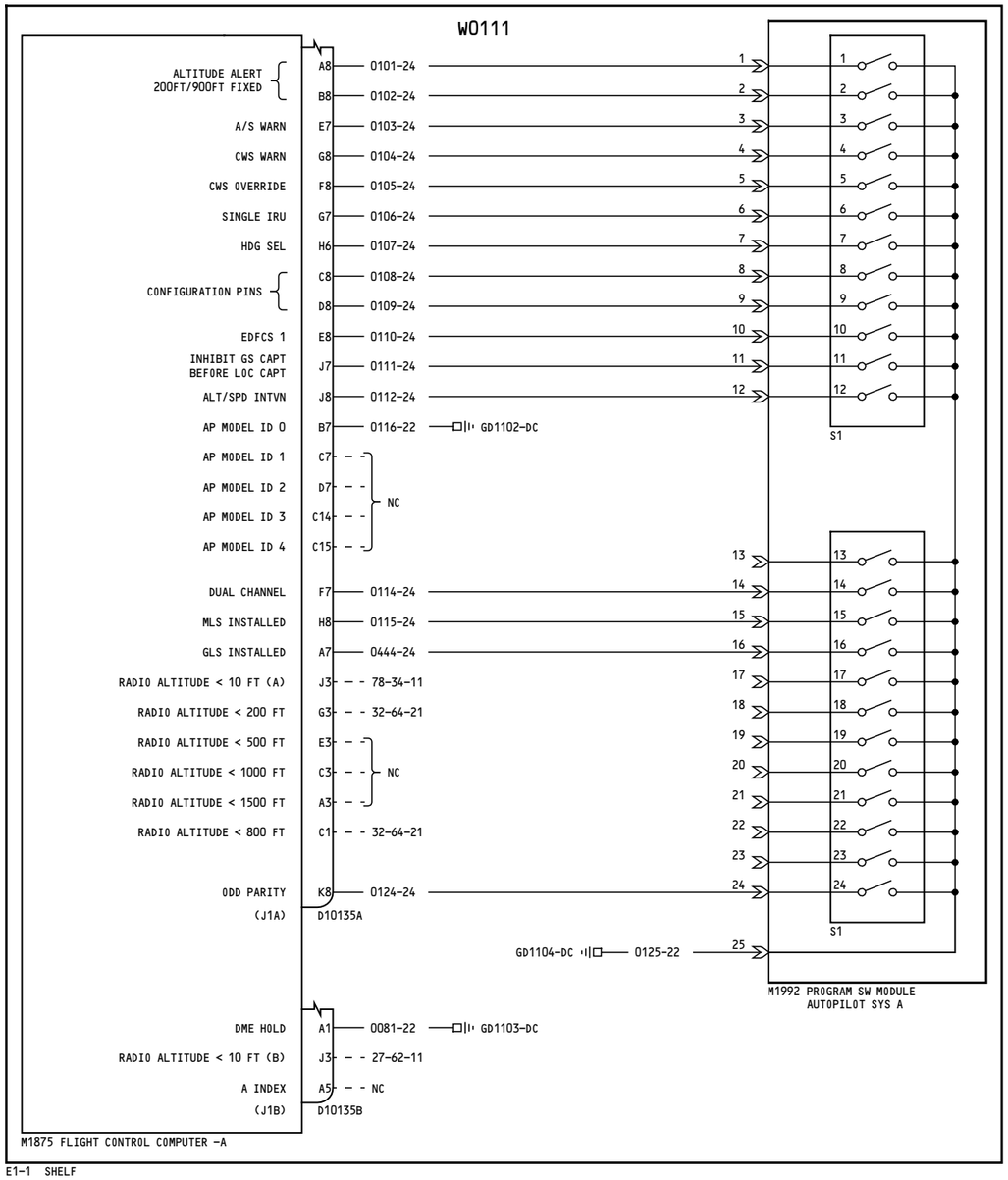

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M1992																							(W0119)
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1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT105-YT119, YT126-YT129

DFCS - A AND B OPTION PINS

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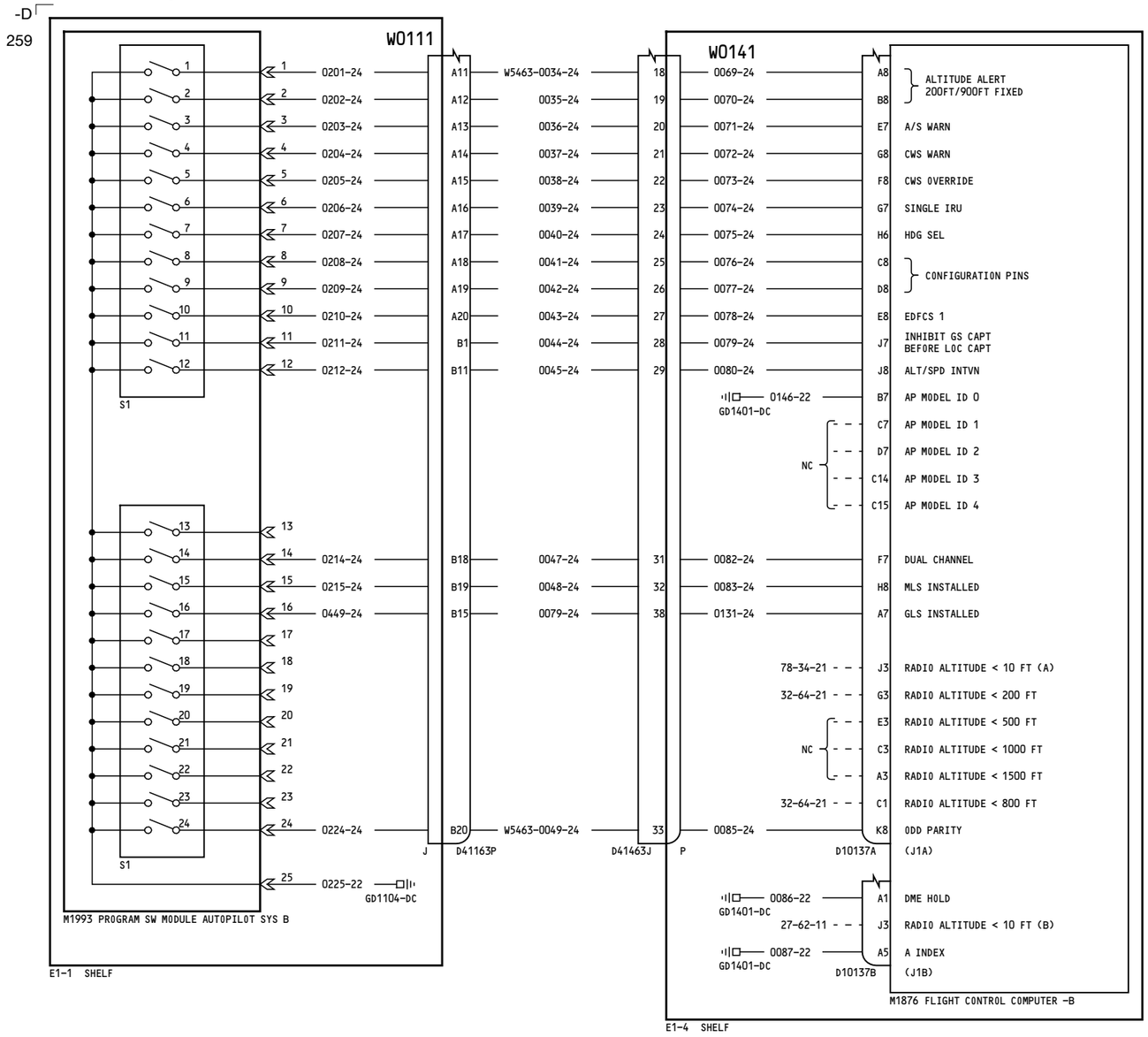

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M1993																							(W0119)
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1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT105-YT119, YT126-YT129

DFCS - A AND B OPTION PINS

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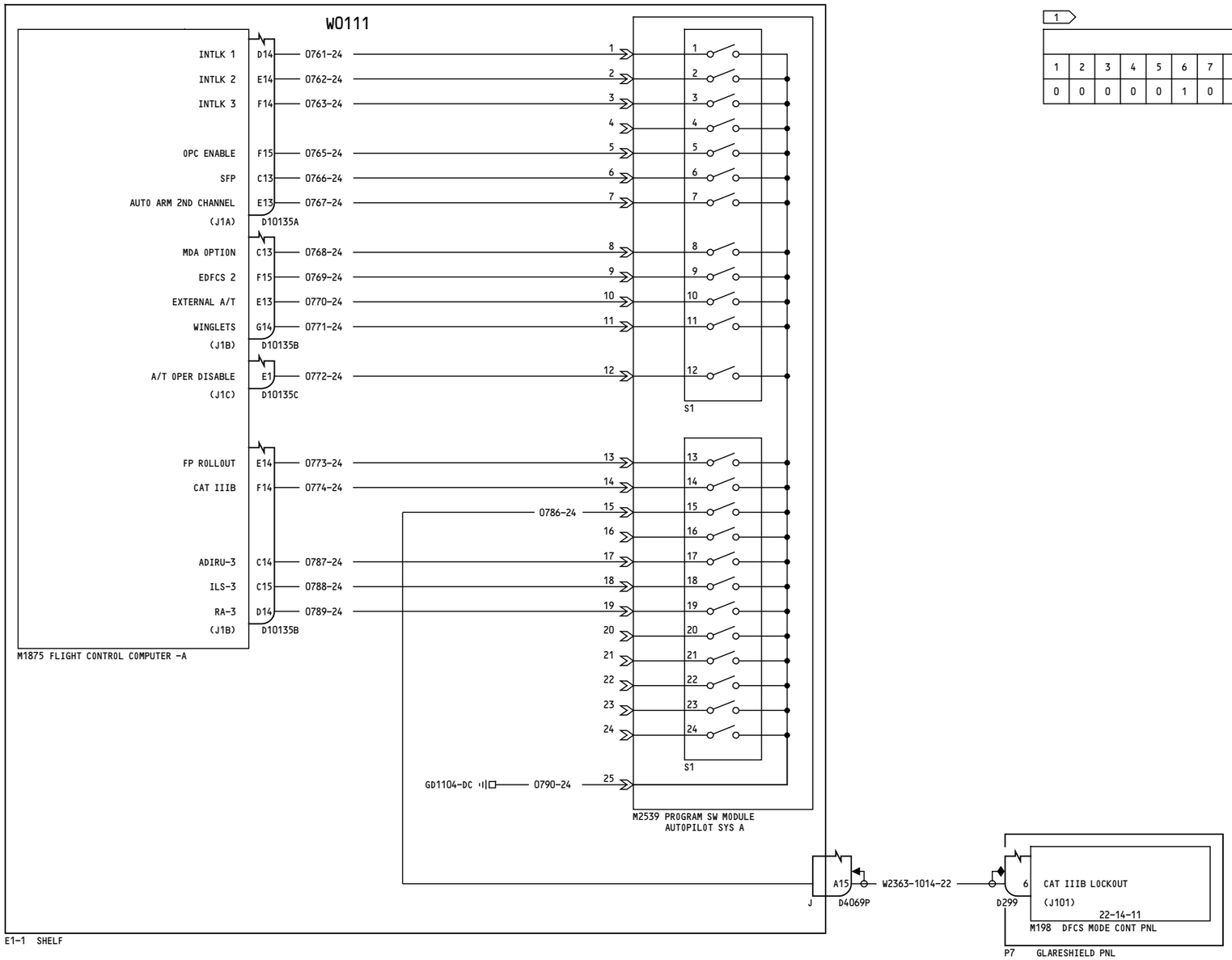

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M2539																							(W0119)
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0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT105-YT119, YT126-YT129	**DFCS - A AND B OPTION PINS**
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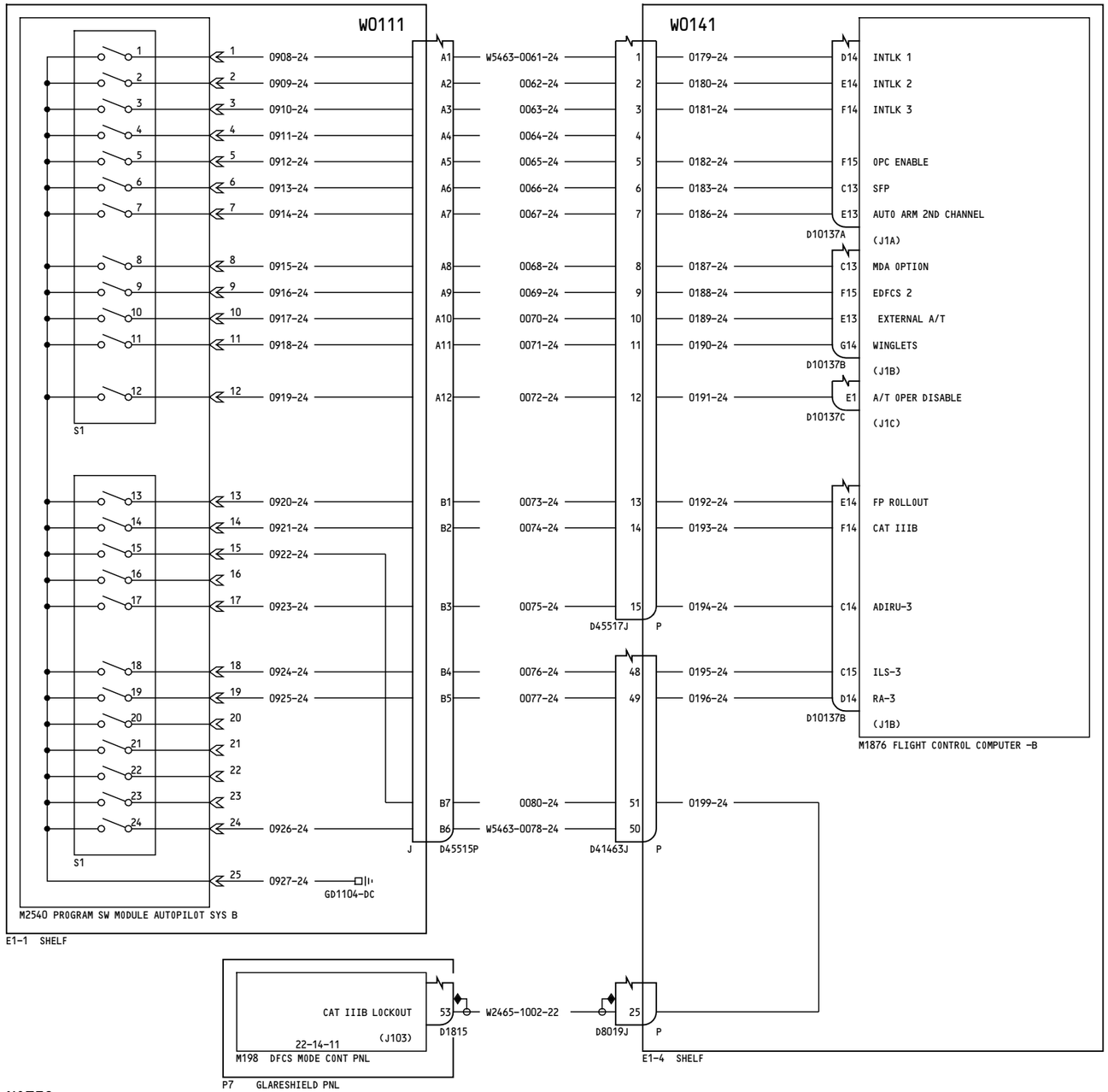

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	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

1. SEE CHART FOR SWITCH POSITION
   LOGIC "1" SWITCH IS ON (CLOSED)
   LOGIC "0" SWITCH IS OFF (OPEN)

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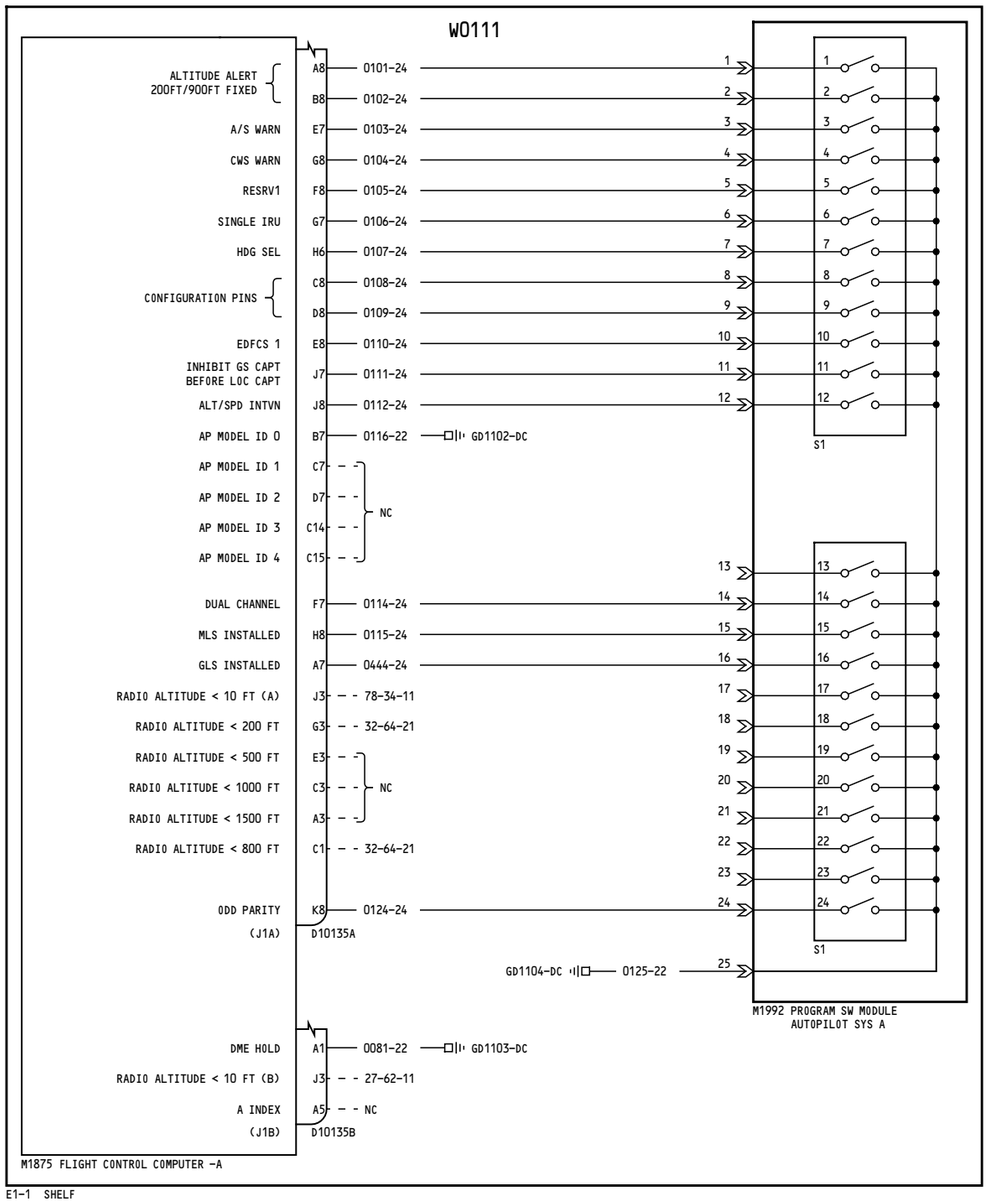

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M1992																							(W0119)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT120, YT130-YT133	**DFCS - A AND B OPTION PINS**
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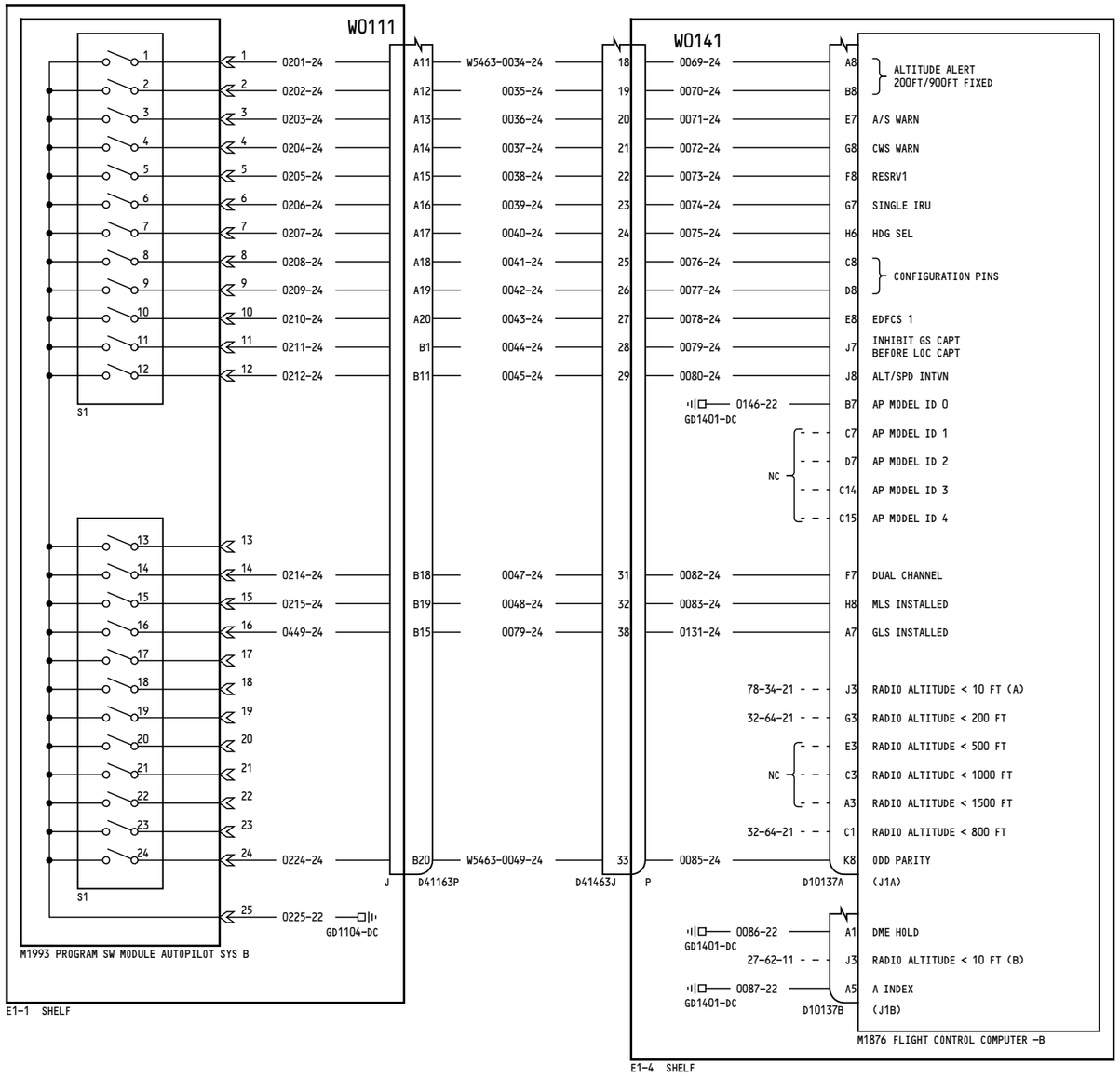

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M1993																							(W0119)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT120, YT130-YT133	**DFCS - A AND B OPTION PINS**
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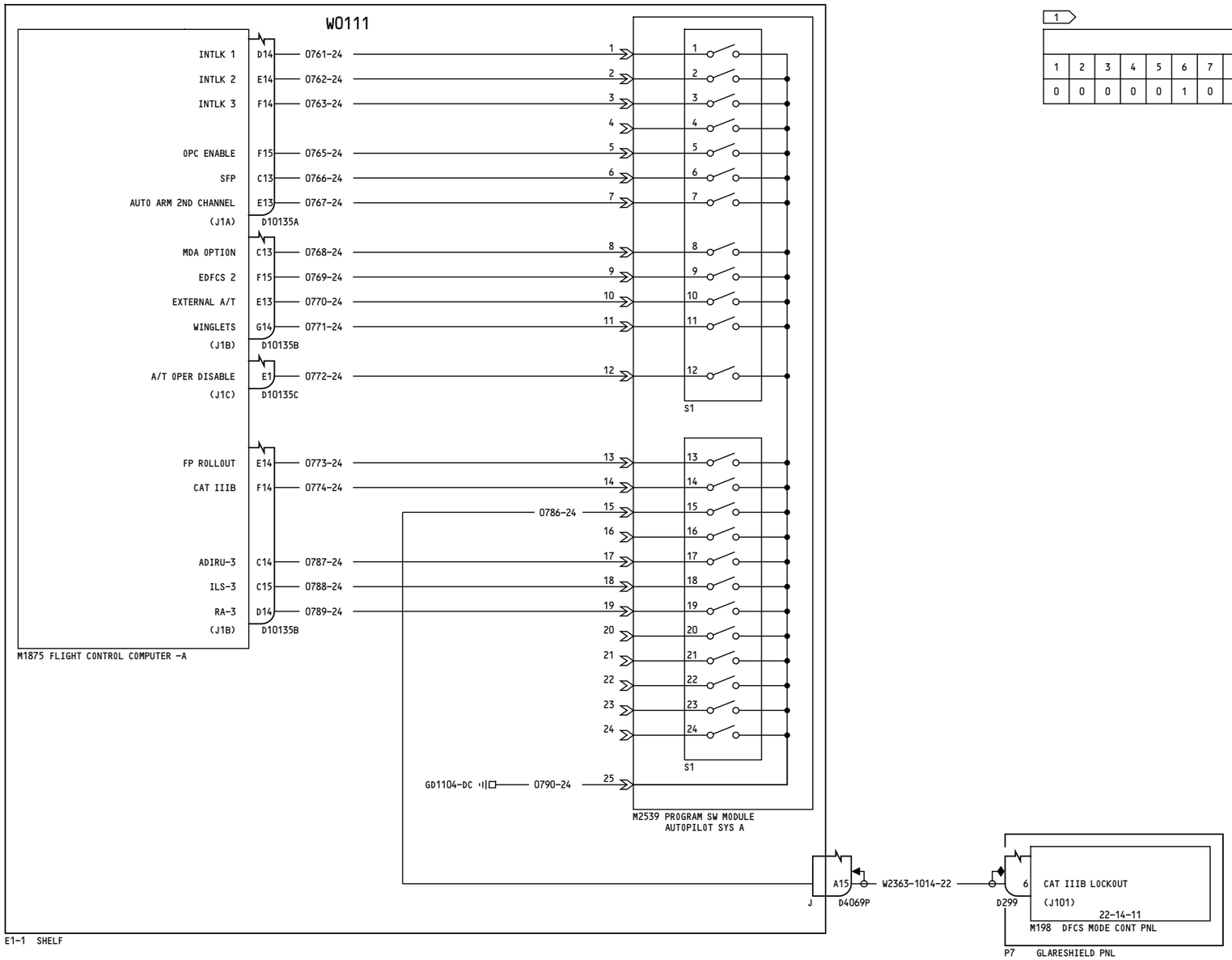

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M2539																							(W0119)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT120, YT130-YT133	**DFCS - A AND B OPTION PINS**
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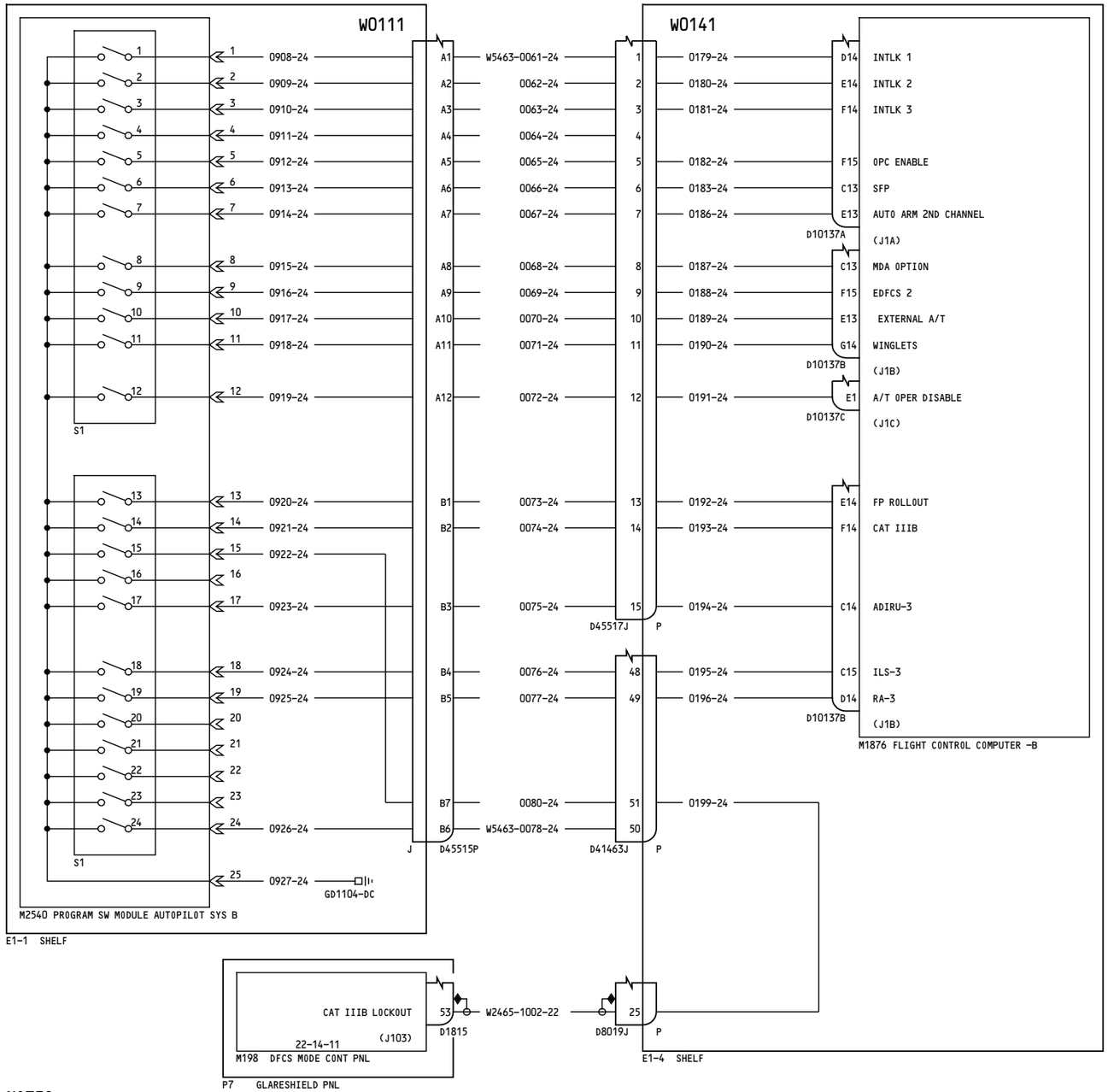

M2540																							(W0119)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

1. SEE CHART FOR SWITCH POSITION
   LOGIC "1" SWITCH IS ON (CLOSED)
   LOGIC "0" SWITCH IS OFF (OPEN)

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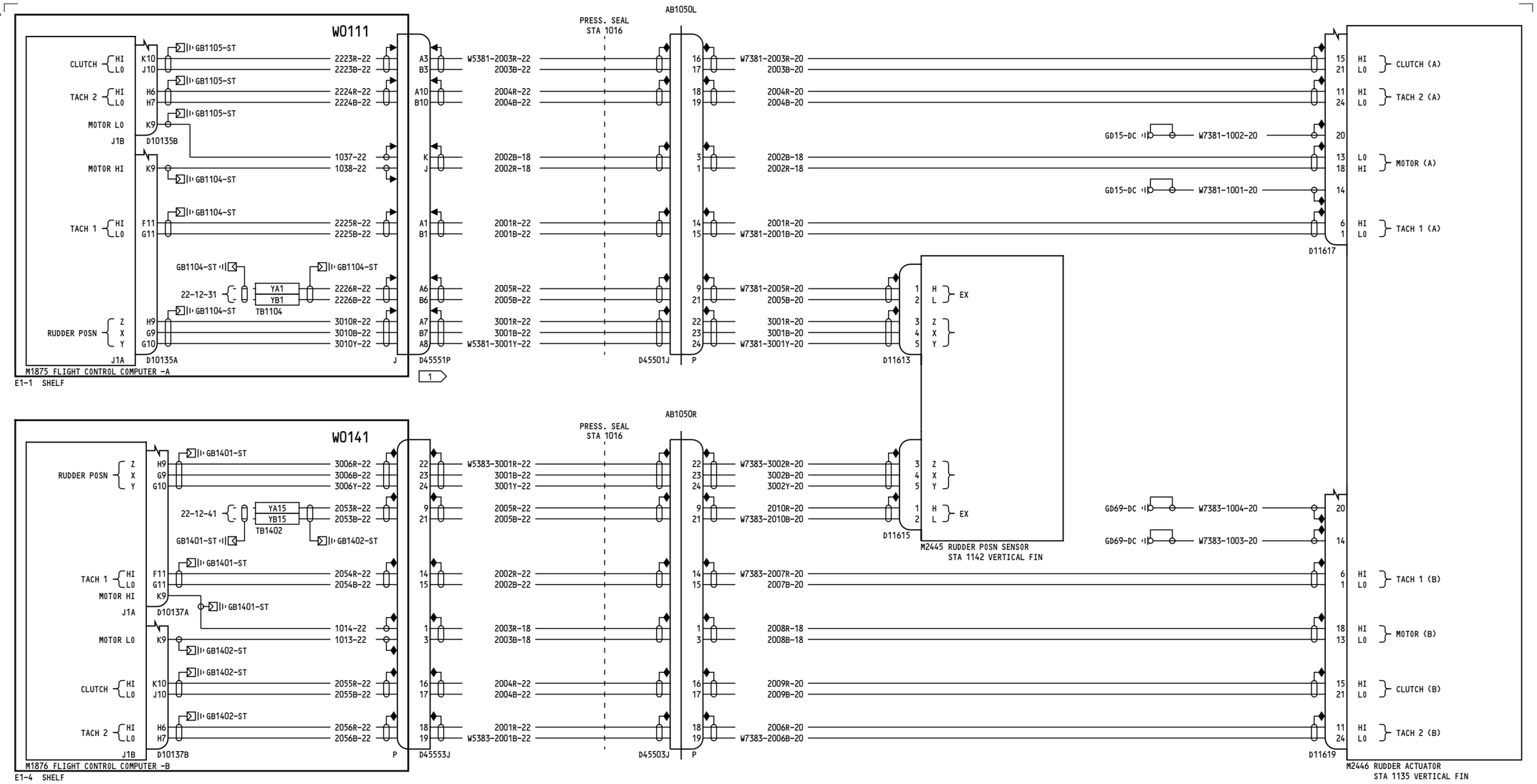

NOTES:

1 COIL AND STOW CONNECTOR PER BAC 5162 WHEN MATING EQUIPMENT NOT INSTALLED.

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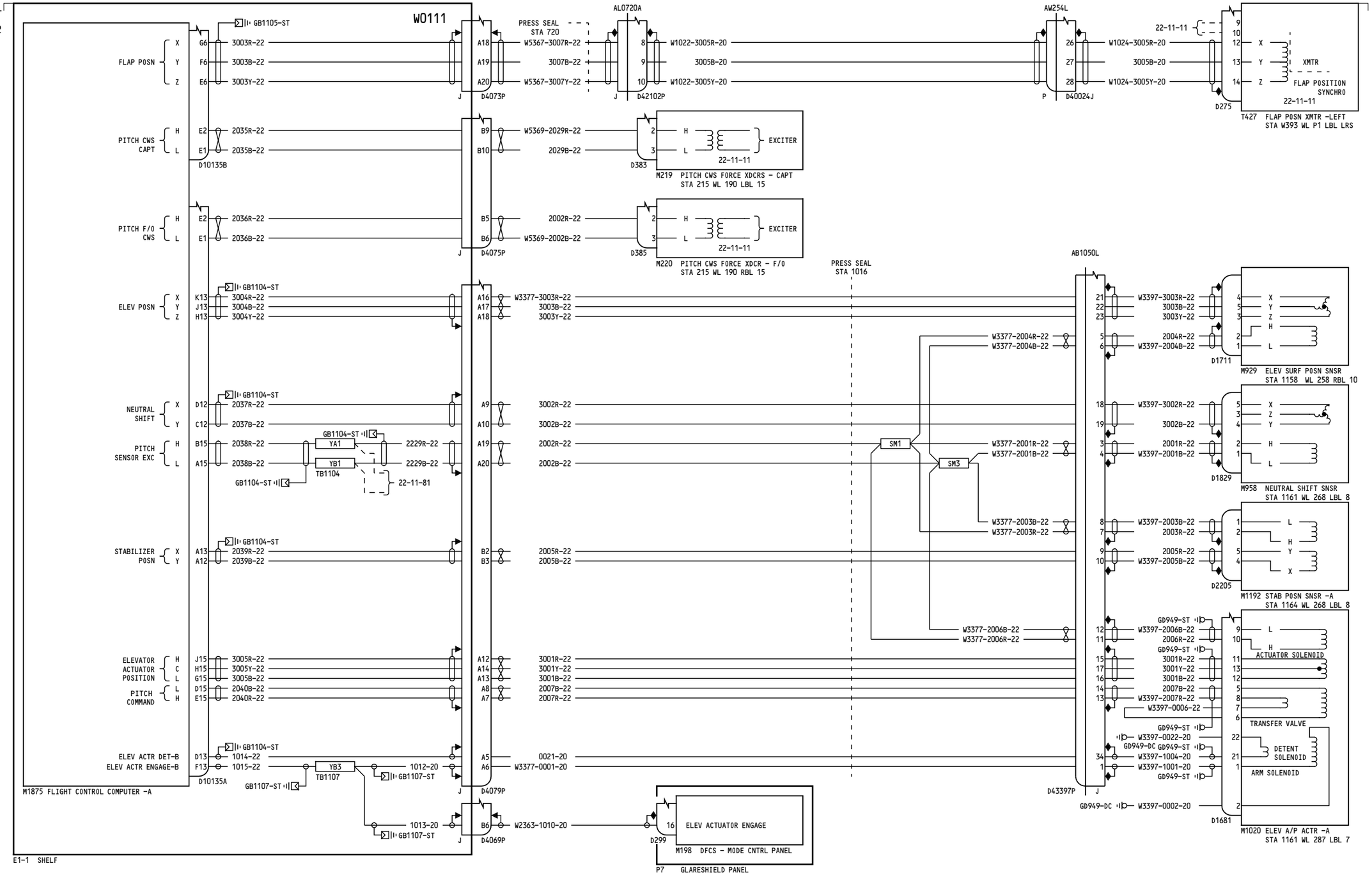

ALL	**DFCS - A A/P PITCH SENSORS AND ACTUATORS**	**22-12-31**
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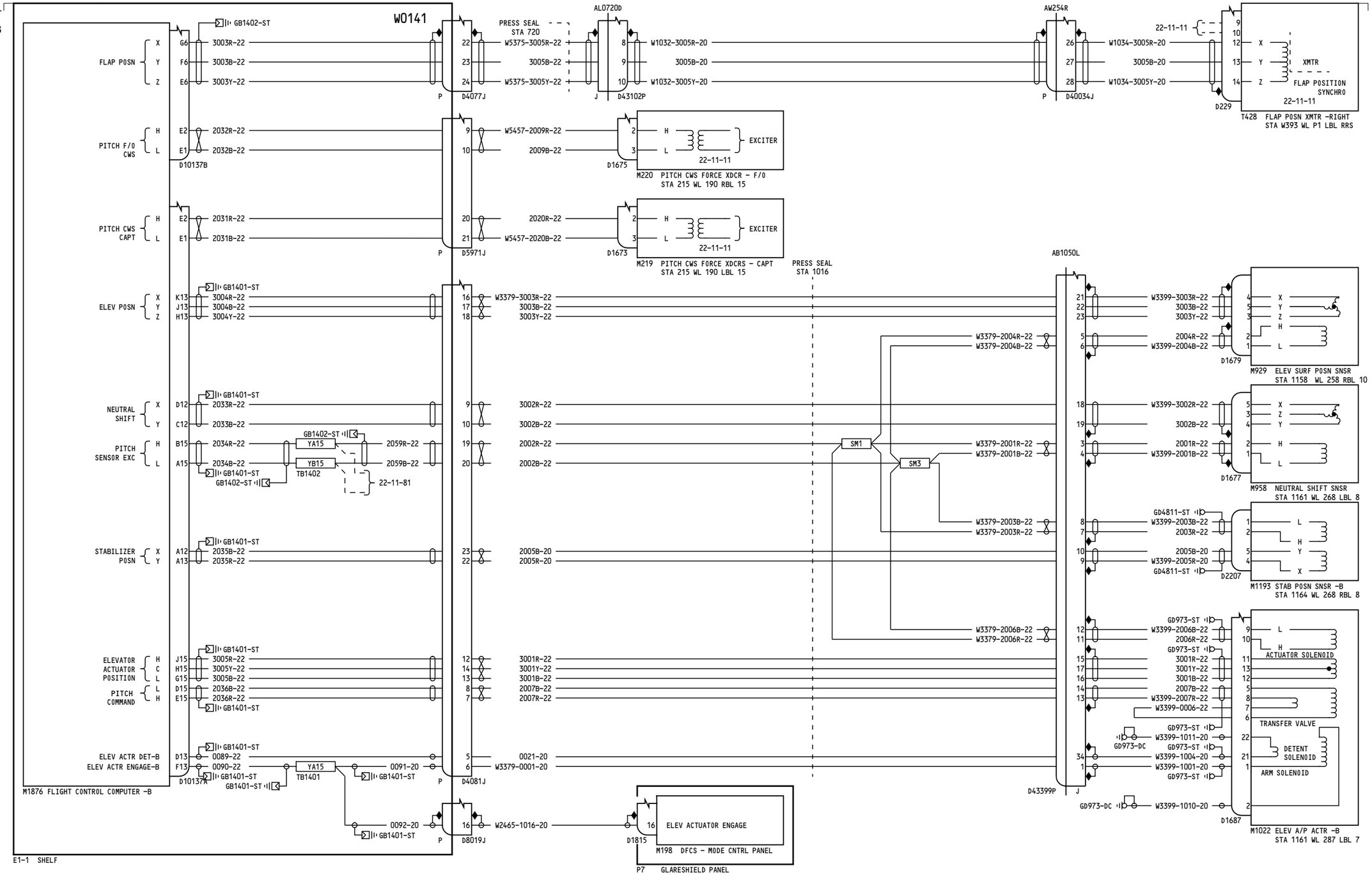

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DFCS - B A/P PITCH SENSORS AND ACTUATORS

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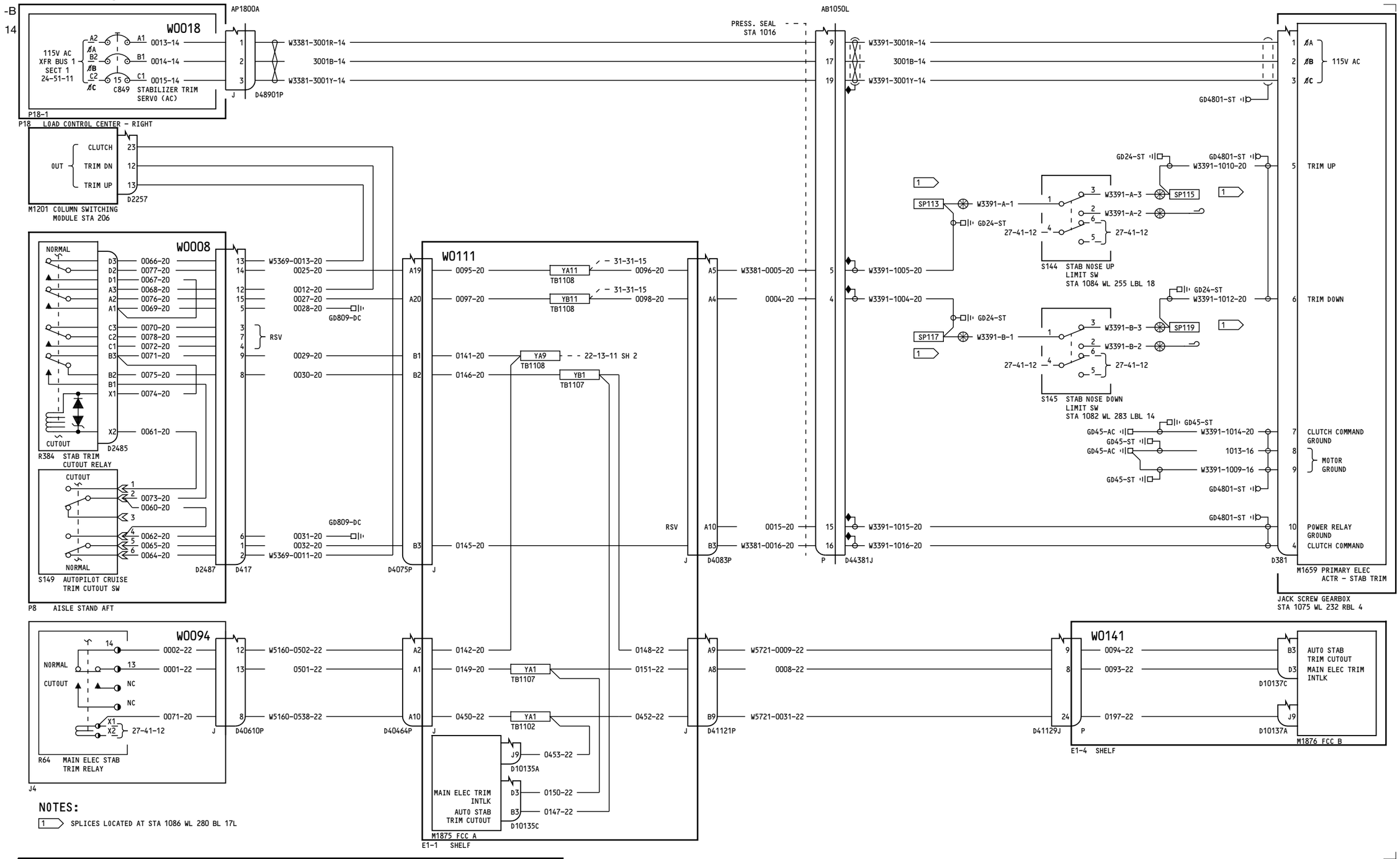

YT101-YT105

DFCS - A AND B SPEED AND STABILIZER TRIM

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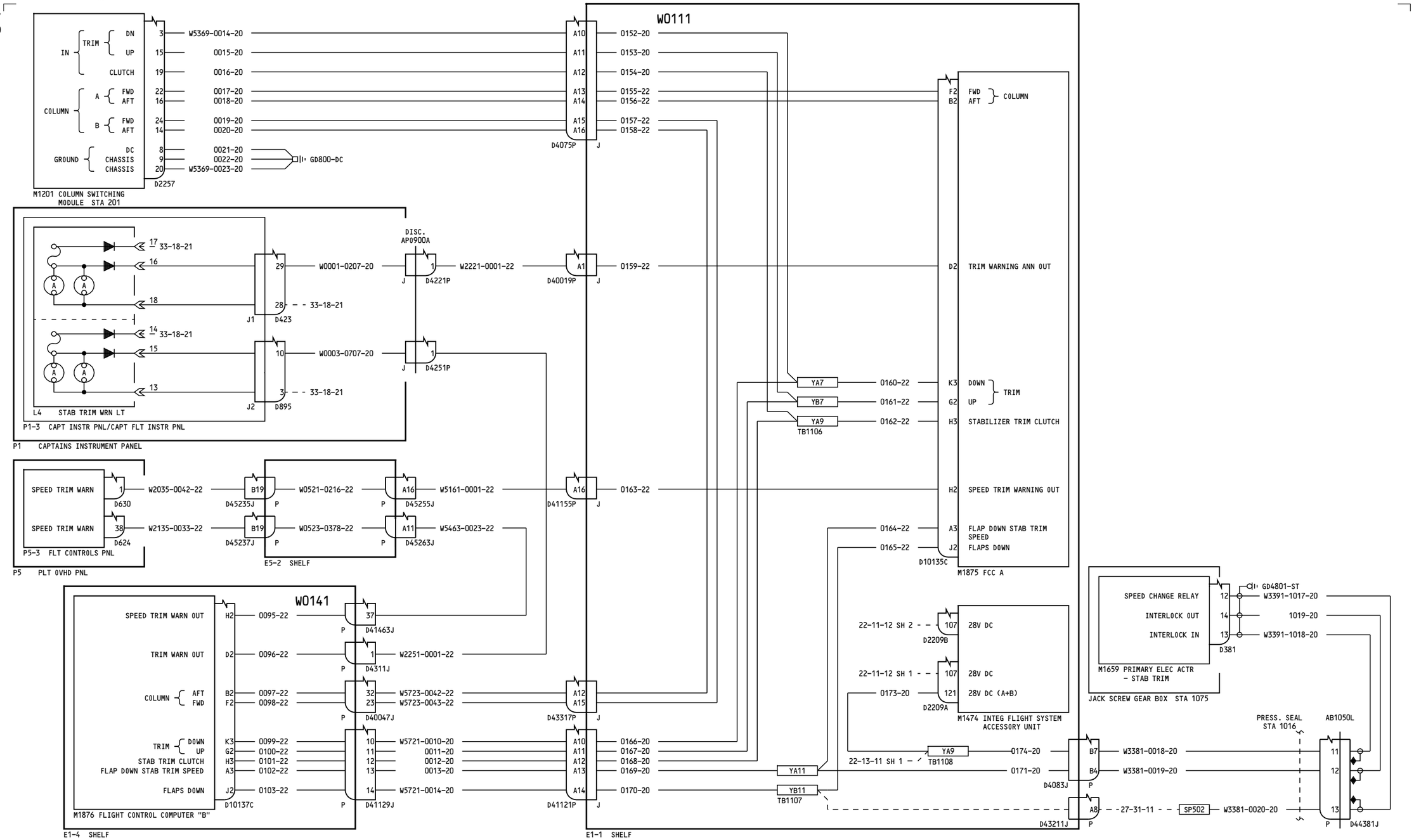

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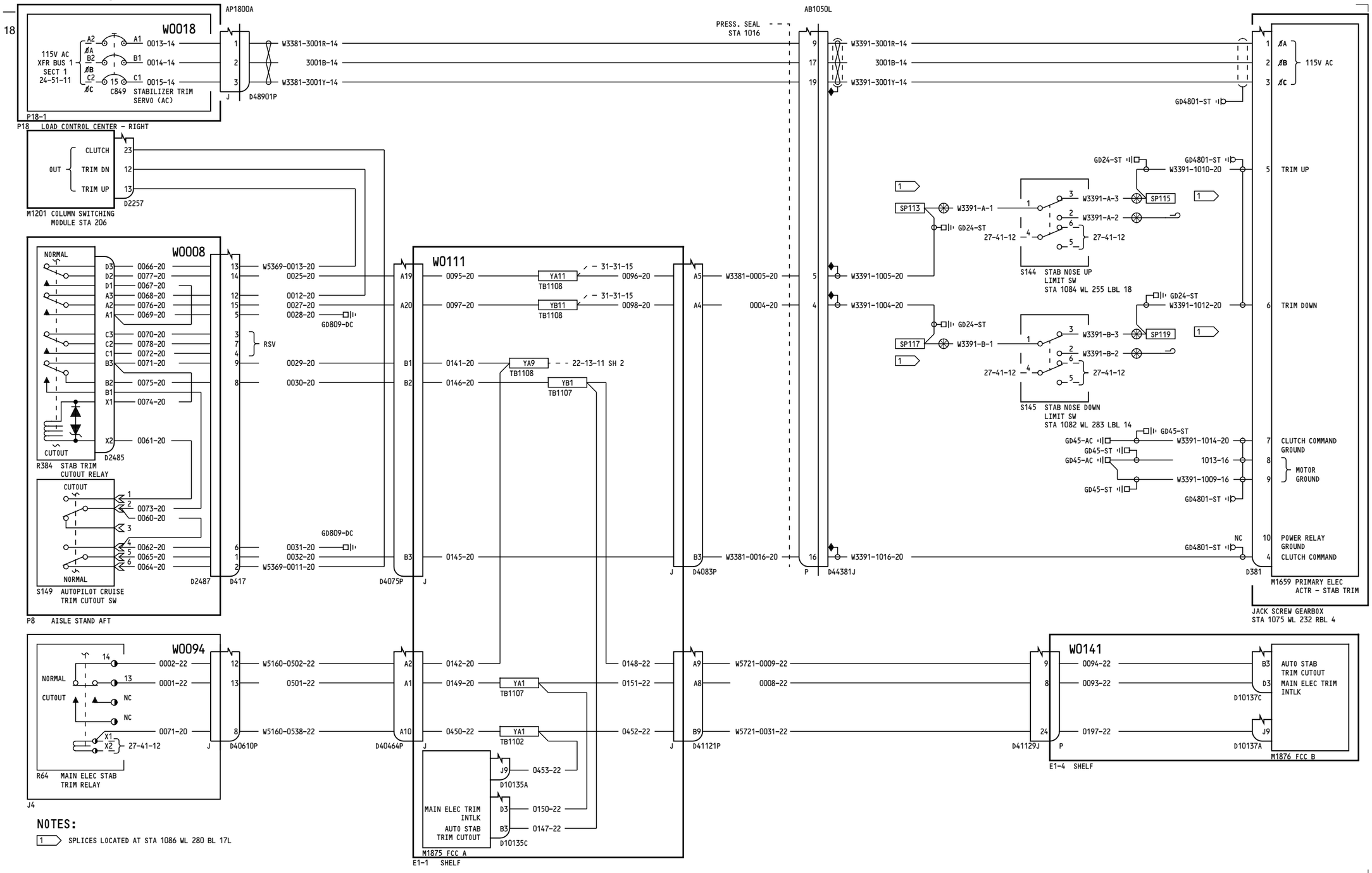

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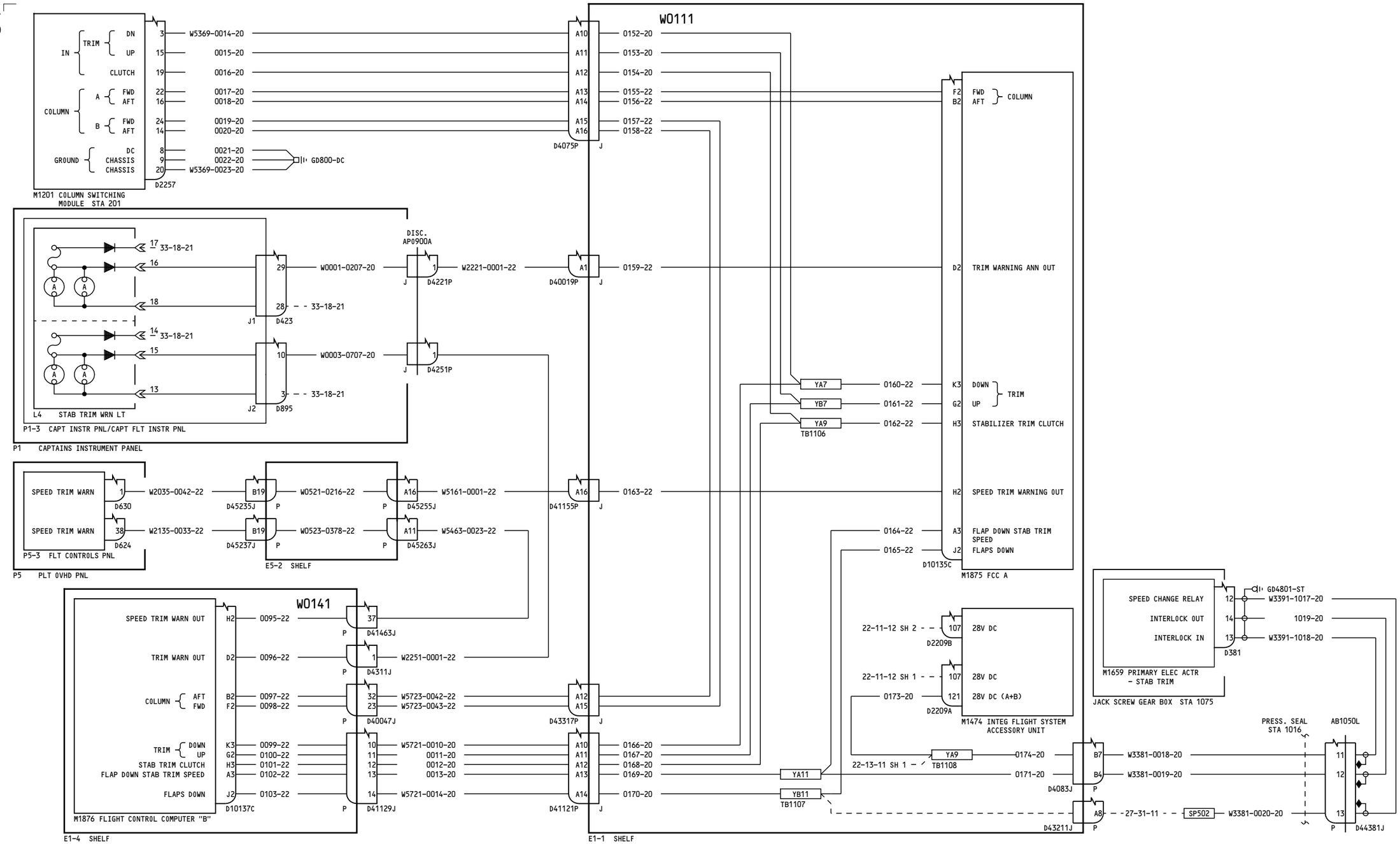

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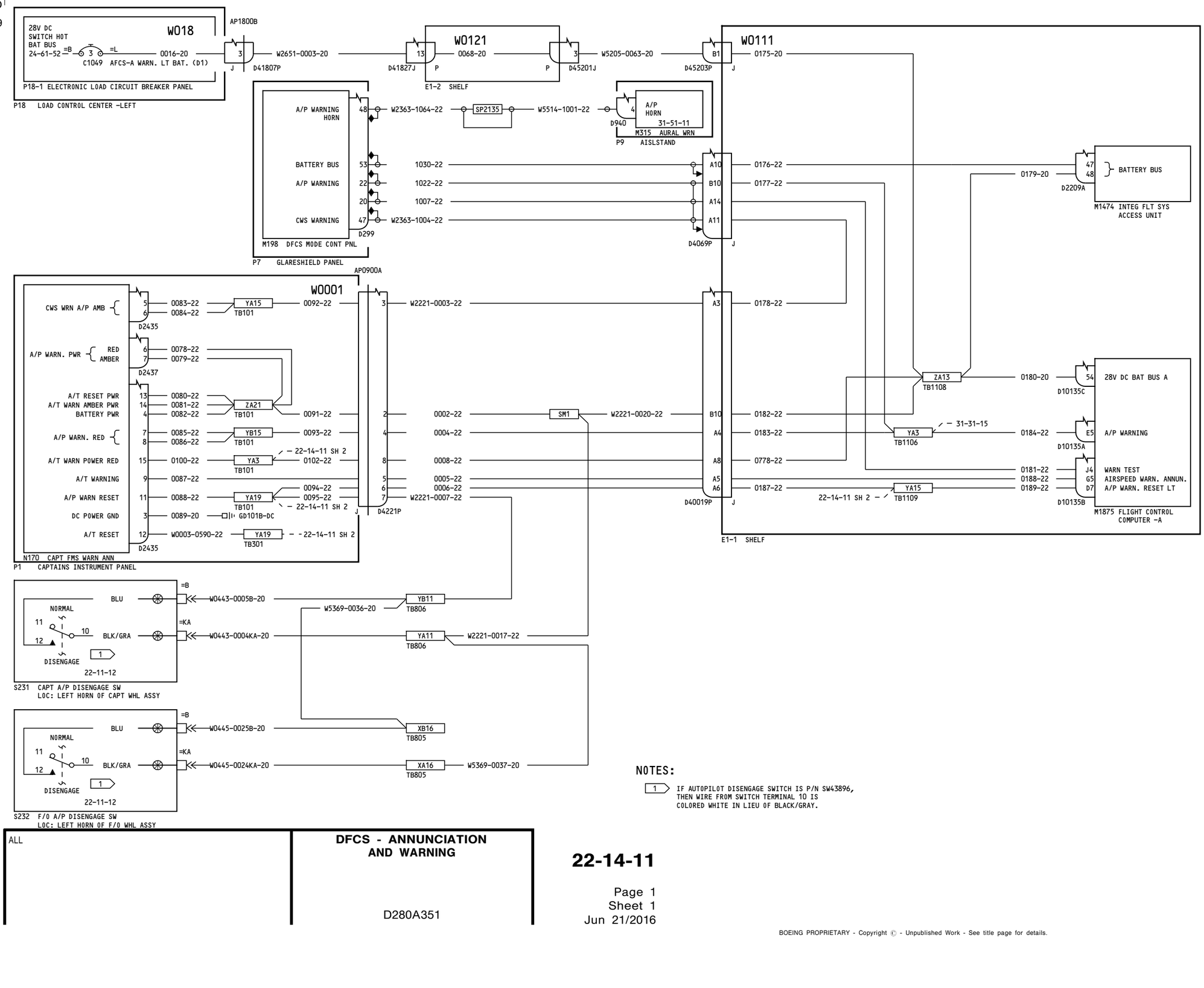

NOTES:

1 IF AUTOPILOT DISENGAGE SWITCH IS P/N SW43896, THEN WIRE FROM SWITCH TERMINAL 10 IS COLORED WHITE IN LIEU OF BLACK/GRAY.

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DFCS - ANNUNCIATION AND WARNING

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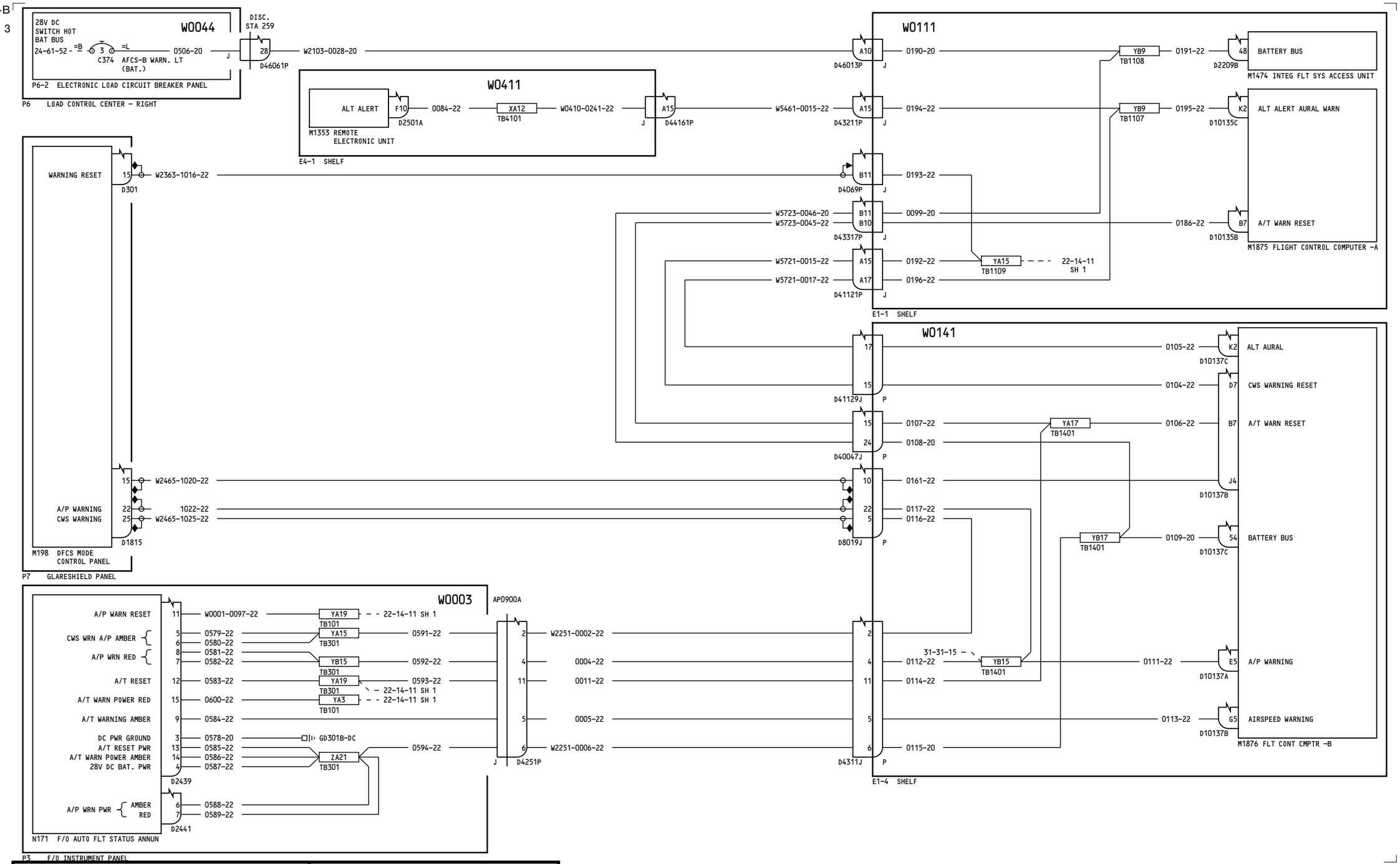

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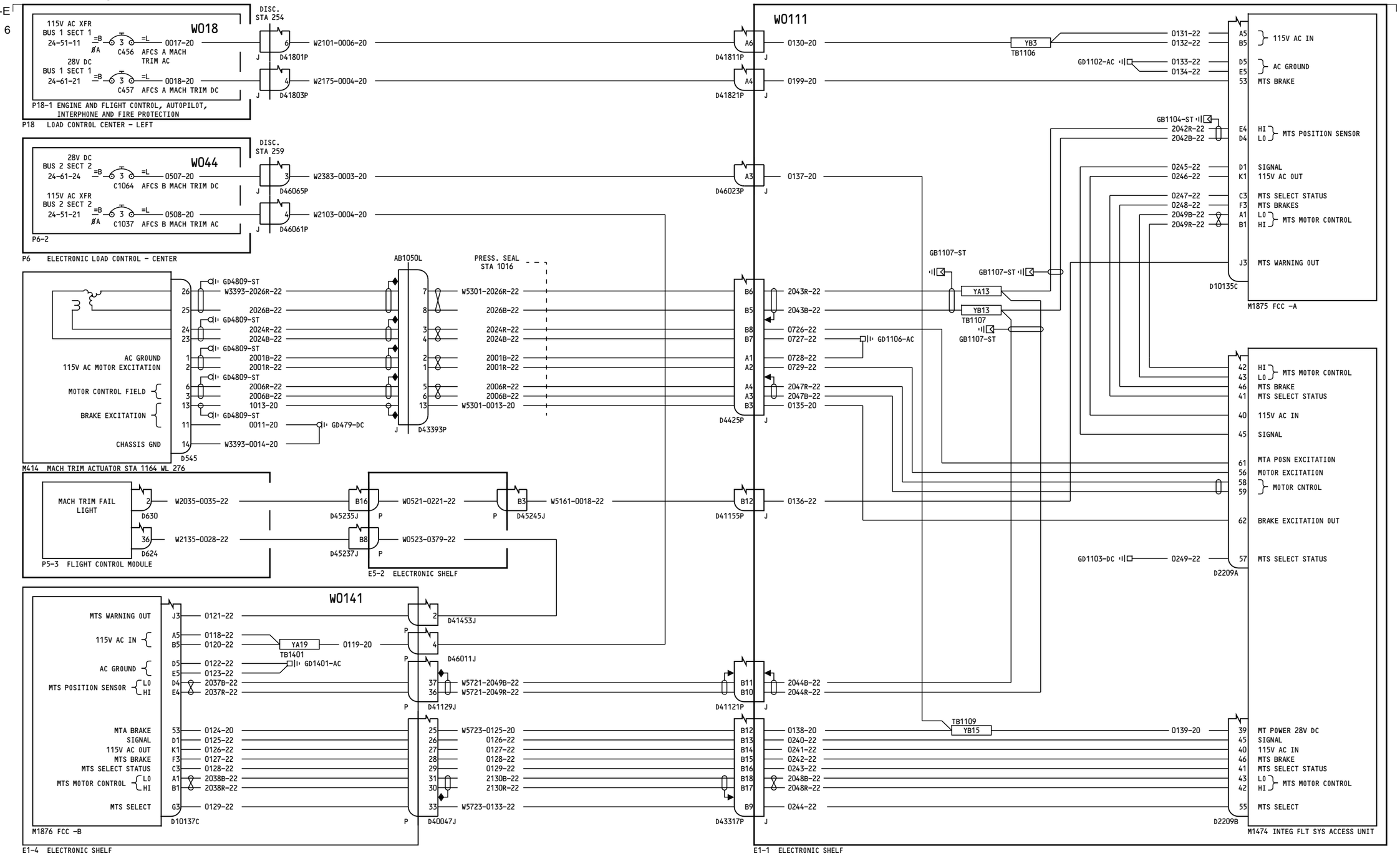

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DFCS - MACH TRIM

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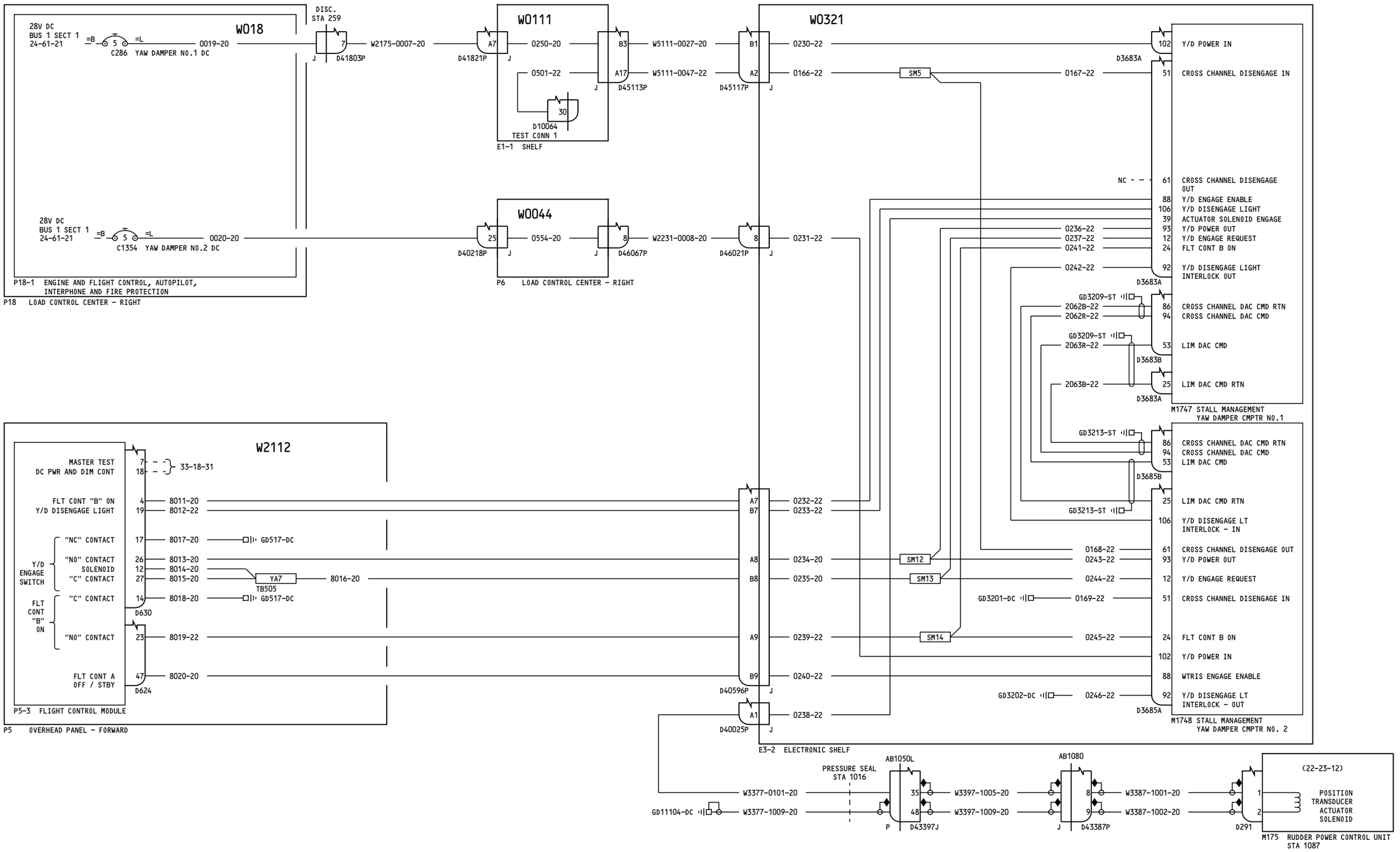

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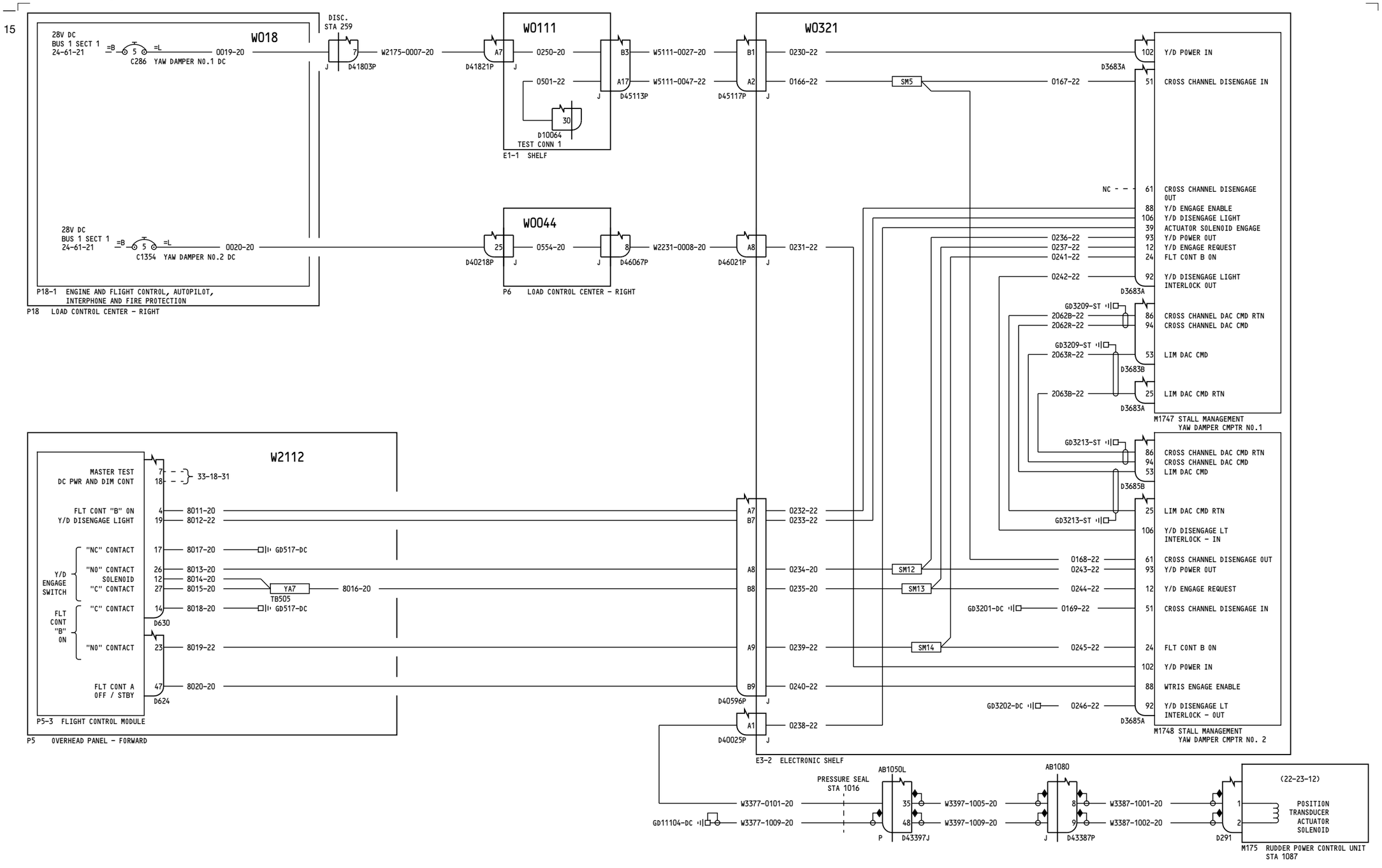

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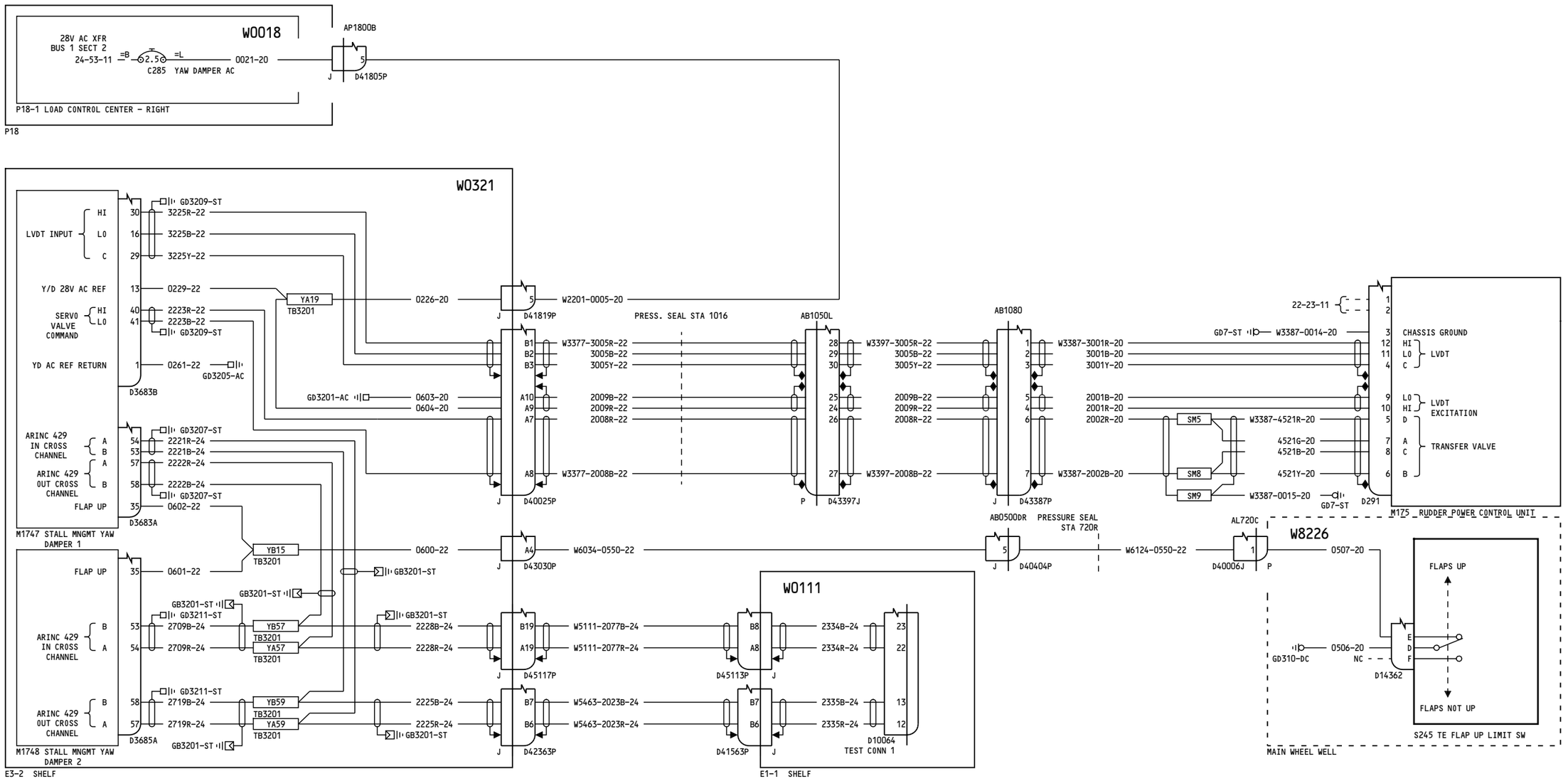

ALL	YAW DAMPER RUDDER CONTROL
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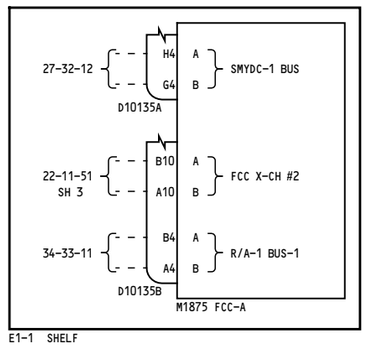

ALL

AUTOTHROTTLE SYSTEM - DIGITAL INPUTS FROM SMYDC'S AND RA'S

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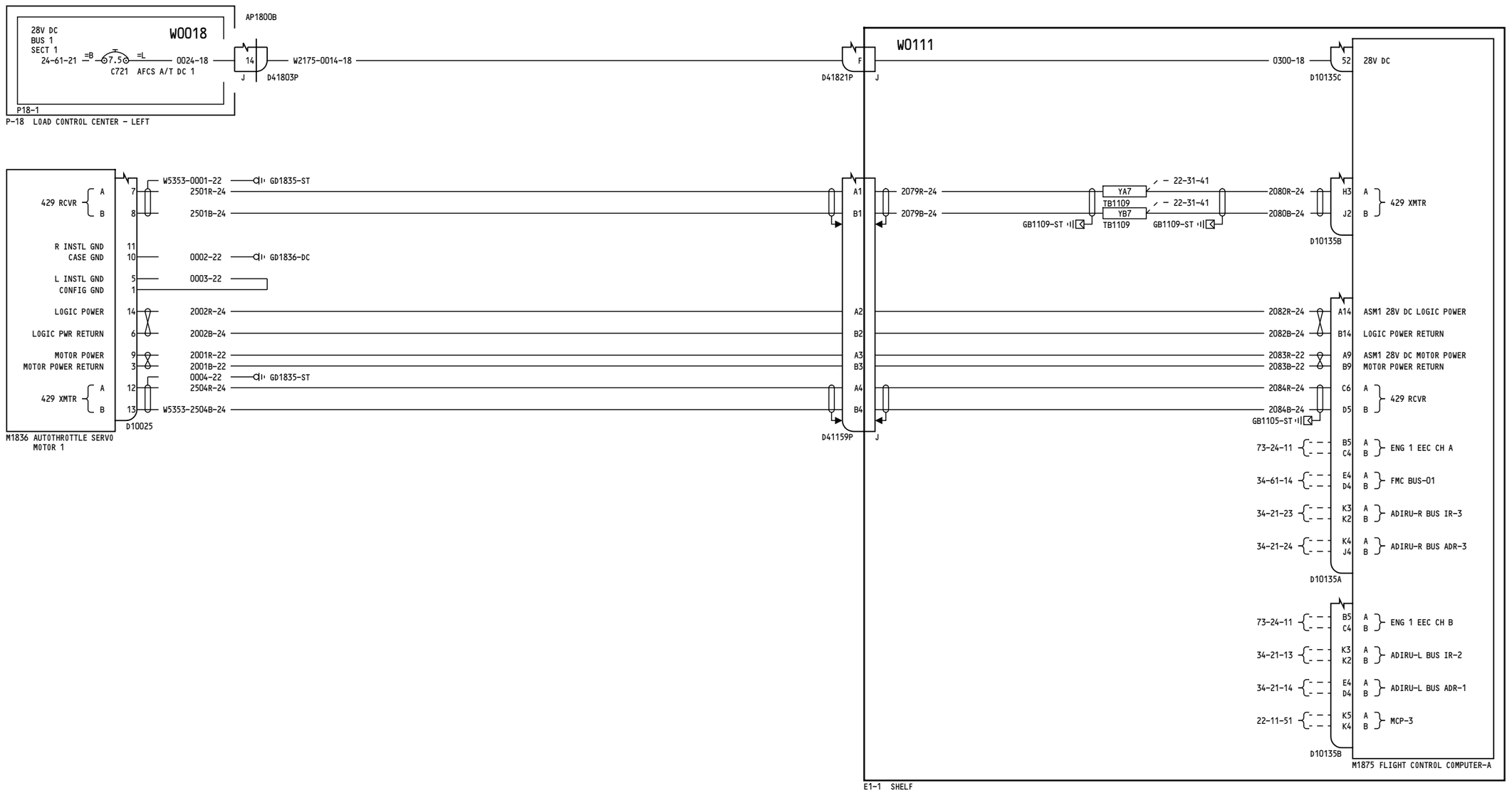

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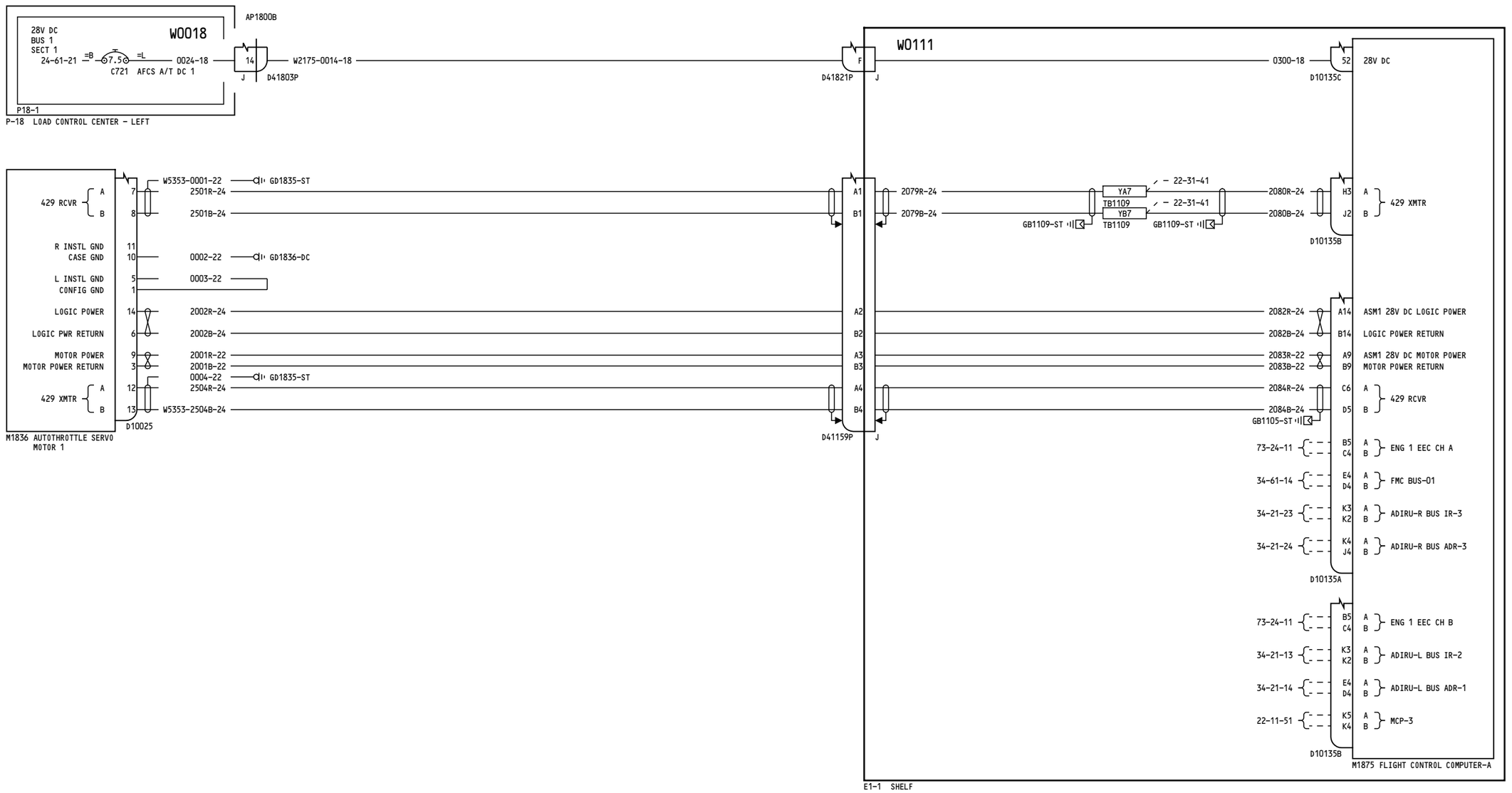

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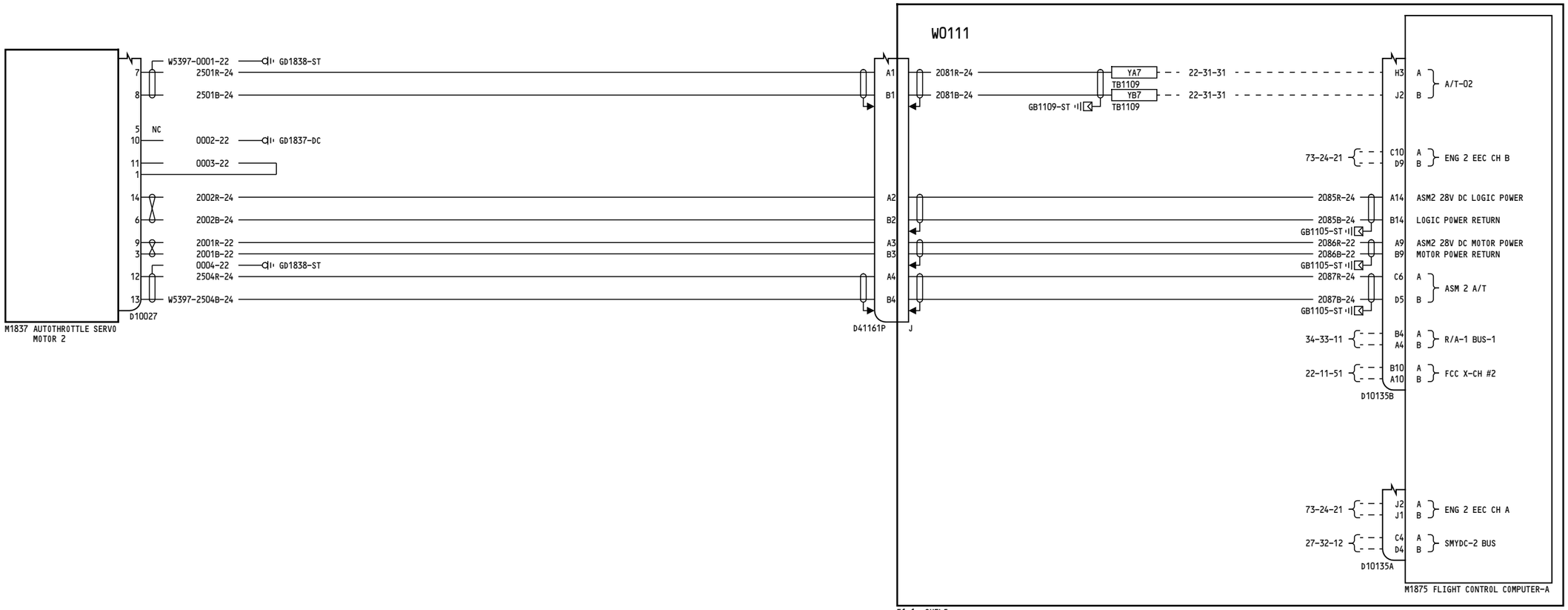

YT101-YT117, YT126-YT131	**AUTOTHROTTLE SYSTEM - SERVO MOTOR 2**
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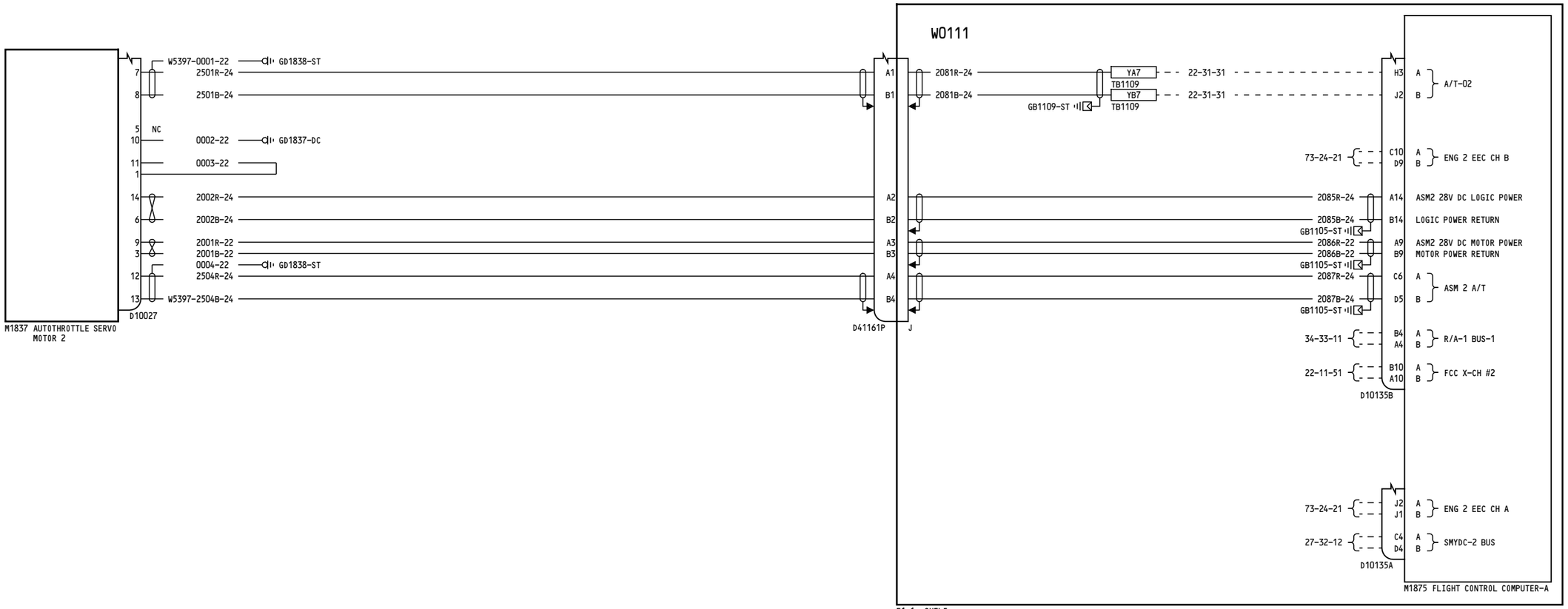

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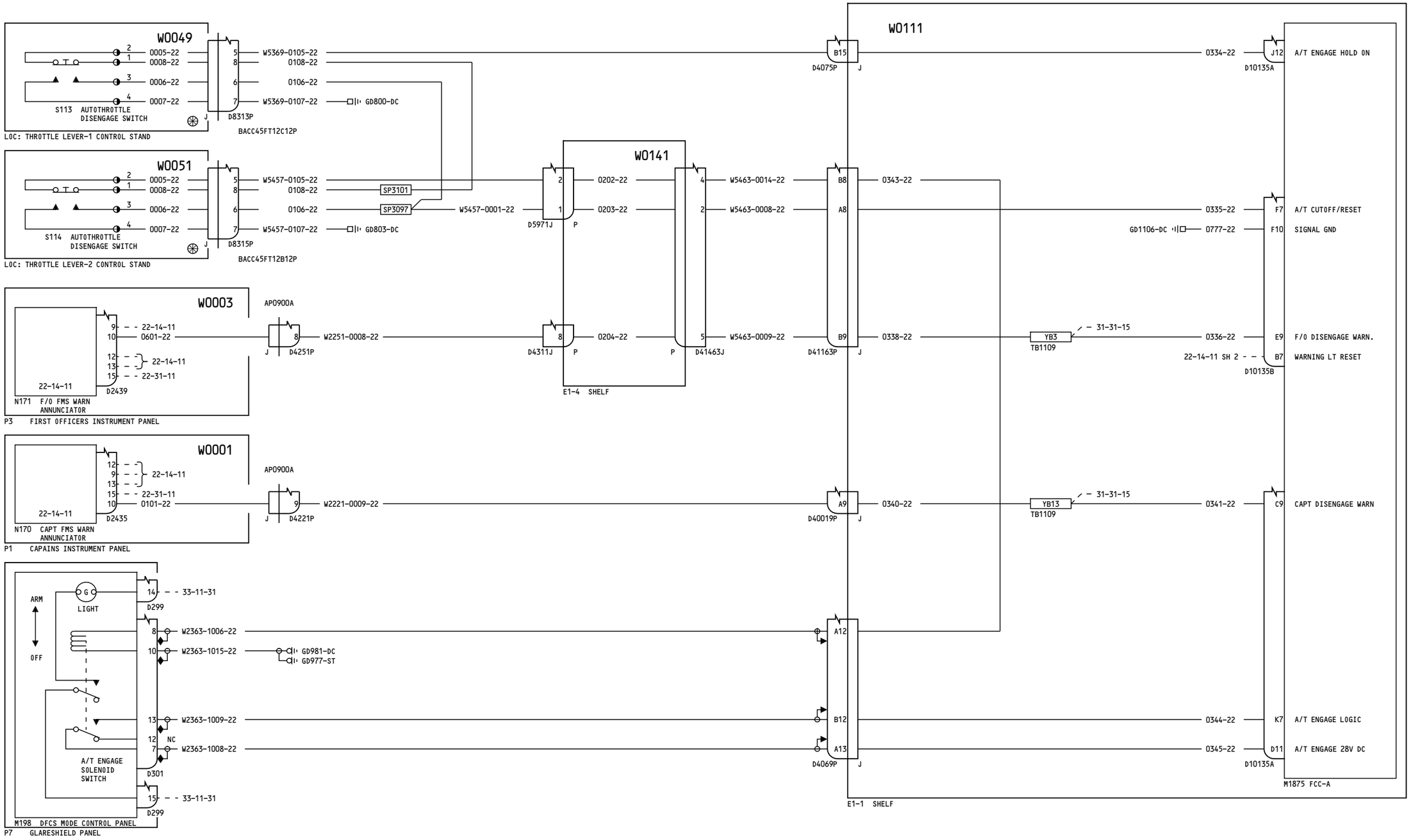

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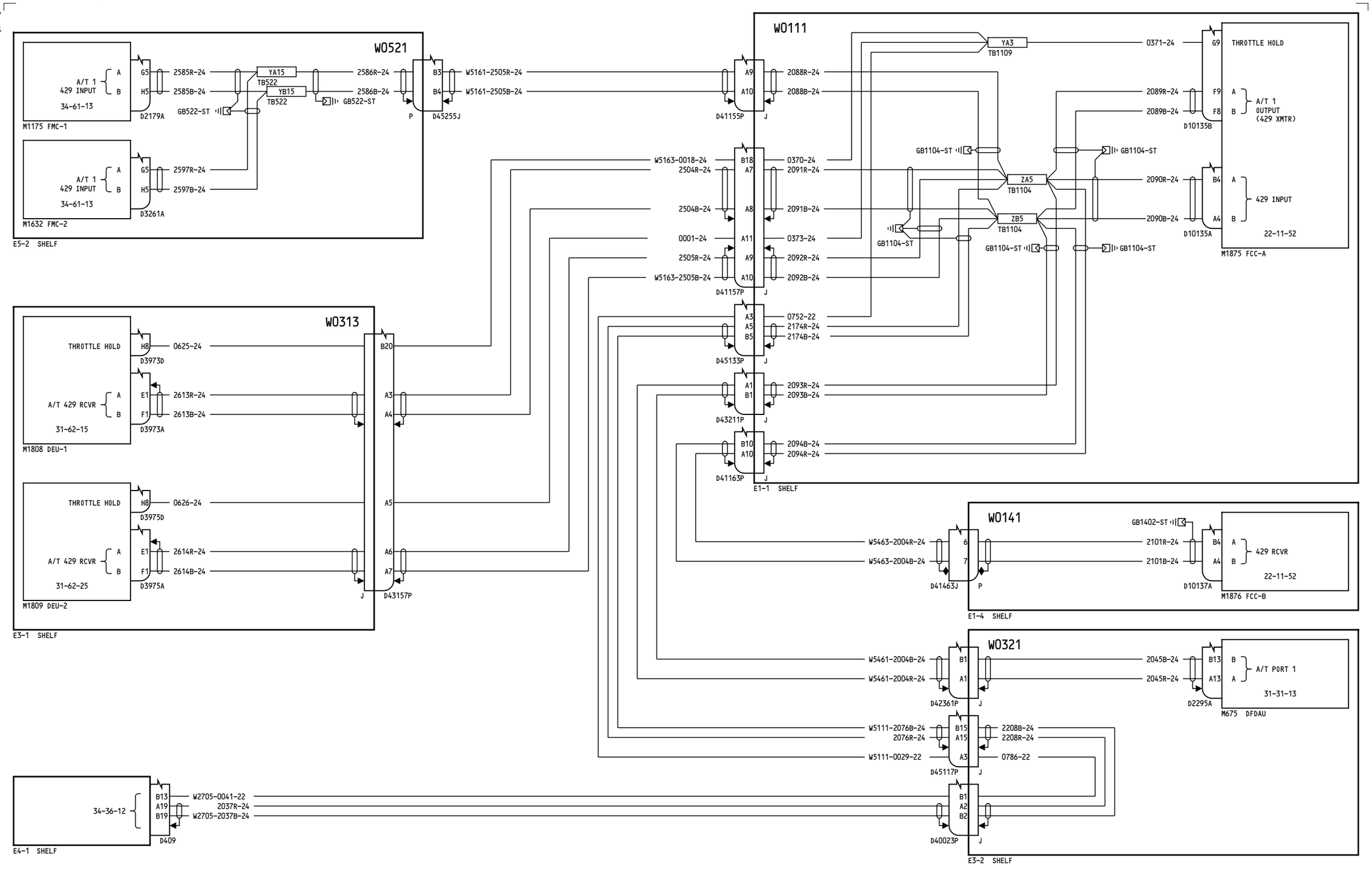

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