

CHAPTER

22

AUTOFLIGHT



737-800

WIRING DIAGRAM MANUAL

CHAPTER 22 AUTOFLIGHT

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

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DFCS - A A/P PITCH SENSORS AND ACTUATORS	22-12-31		1		Jun 21/2016	ALL
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DFCS - ANNUNCIATION AND WARNING	22-14-11		1	1	Jun 21/2016	ALL
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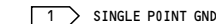
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**DFCS - A AND B FCC
POWER AND 26V AC
EXCITATION**

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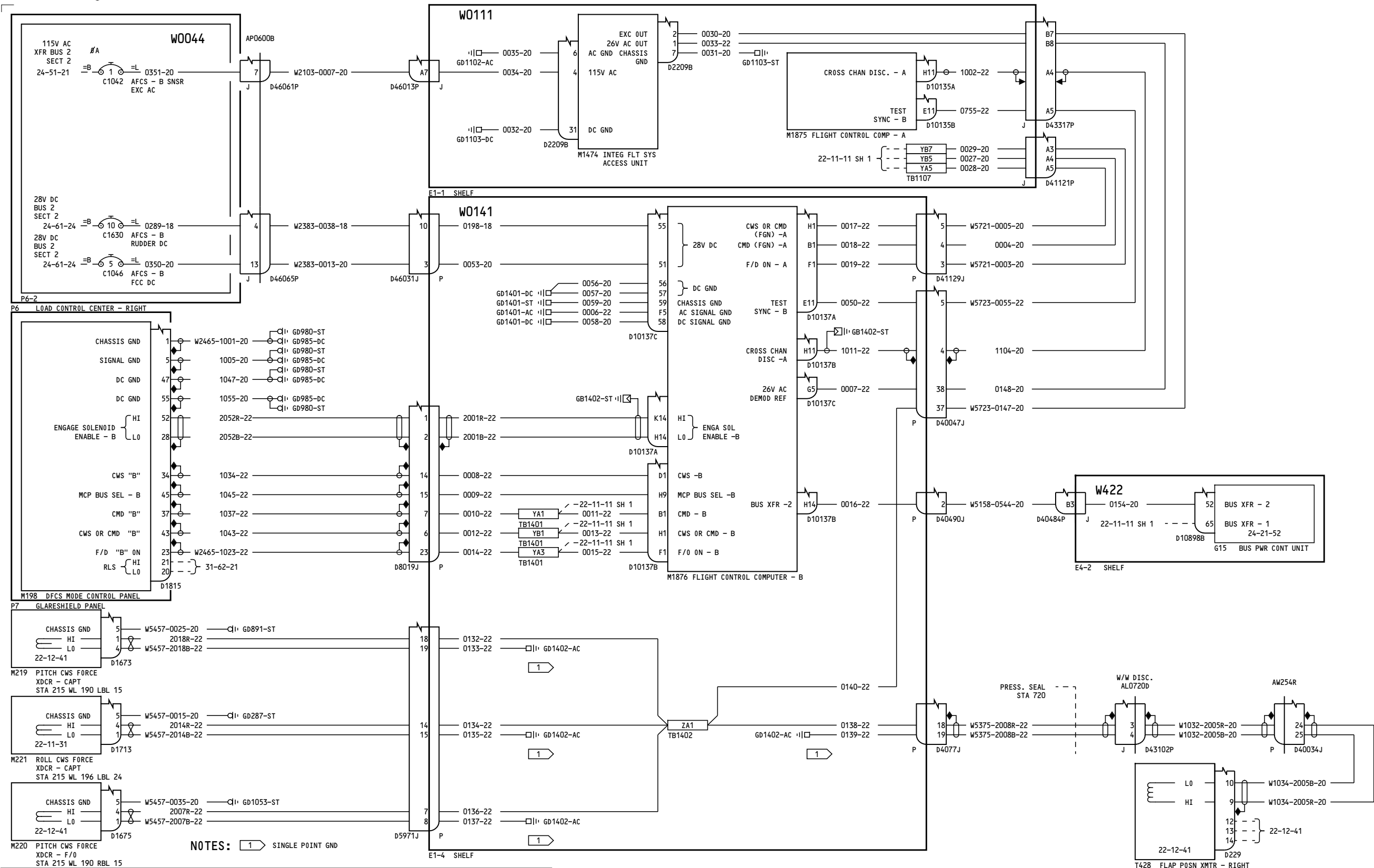
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**DFCS - A AND B FCC
POWER AND 26V AC
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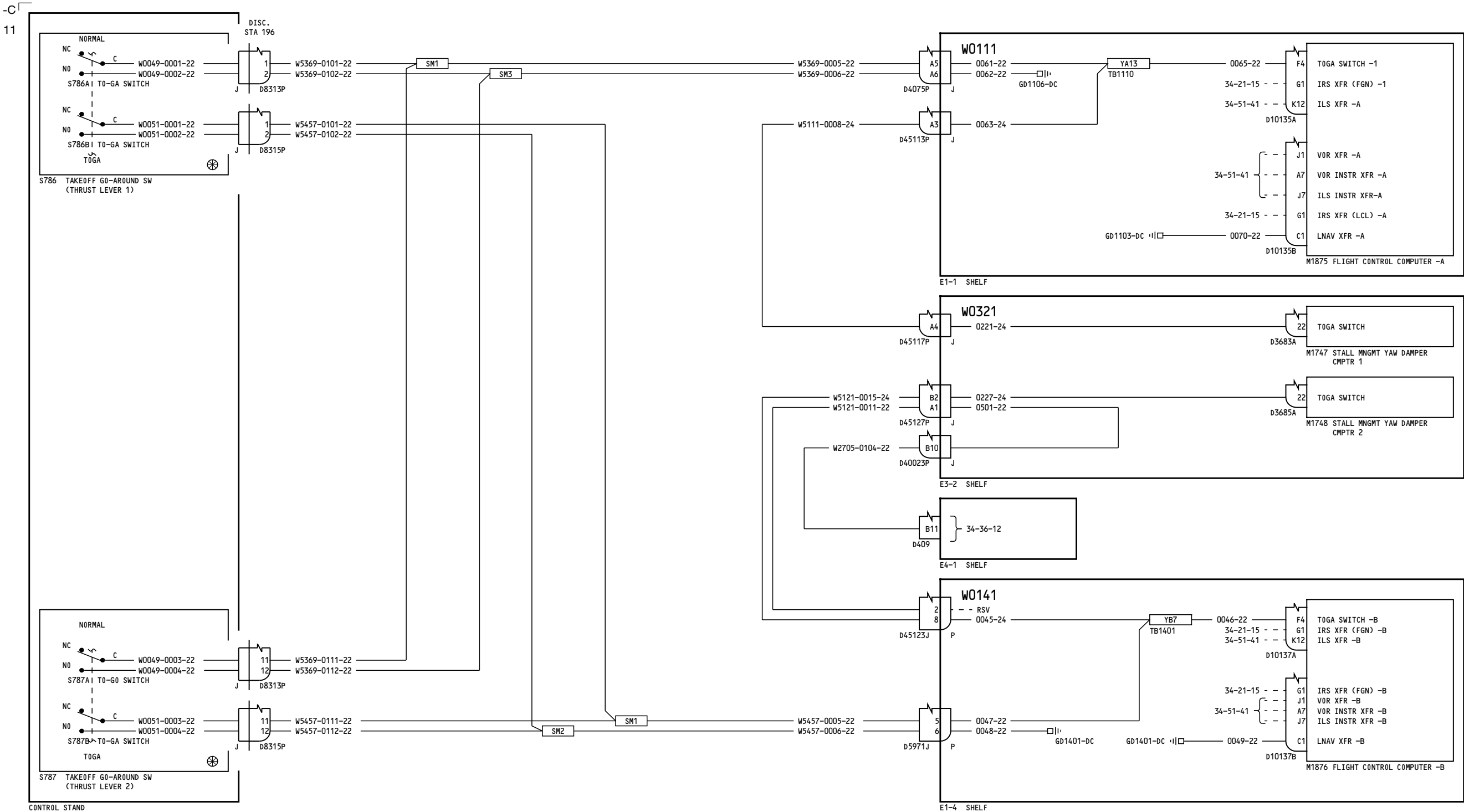
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DFCS - INTERSYSTEM SWITCHING

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The diagram illustrates the electrical connections for a radio system, organized by shelves and components.

Shelves and Components:

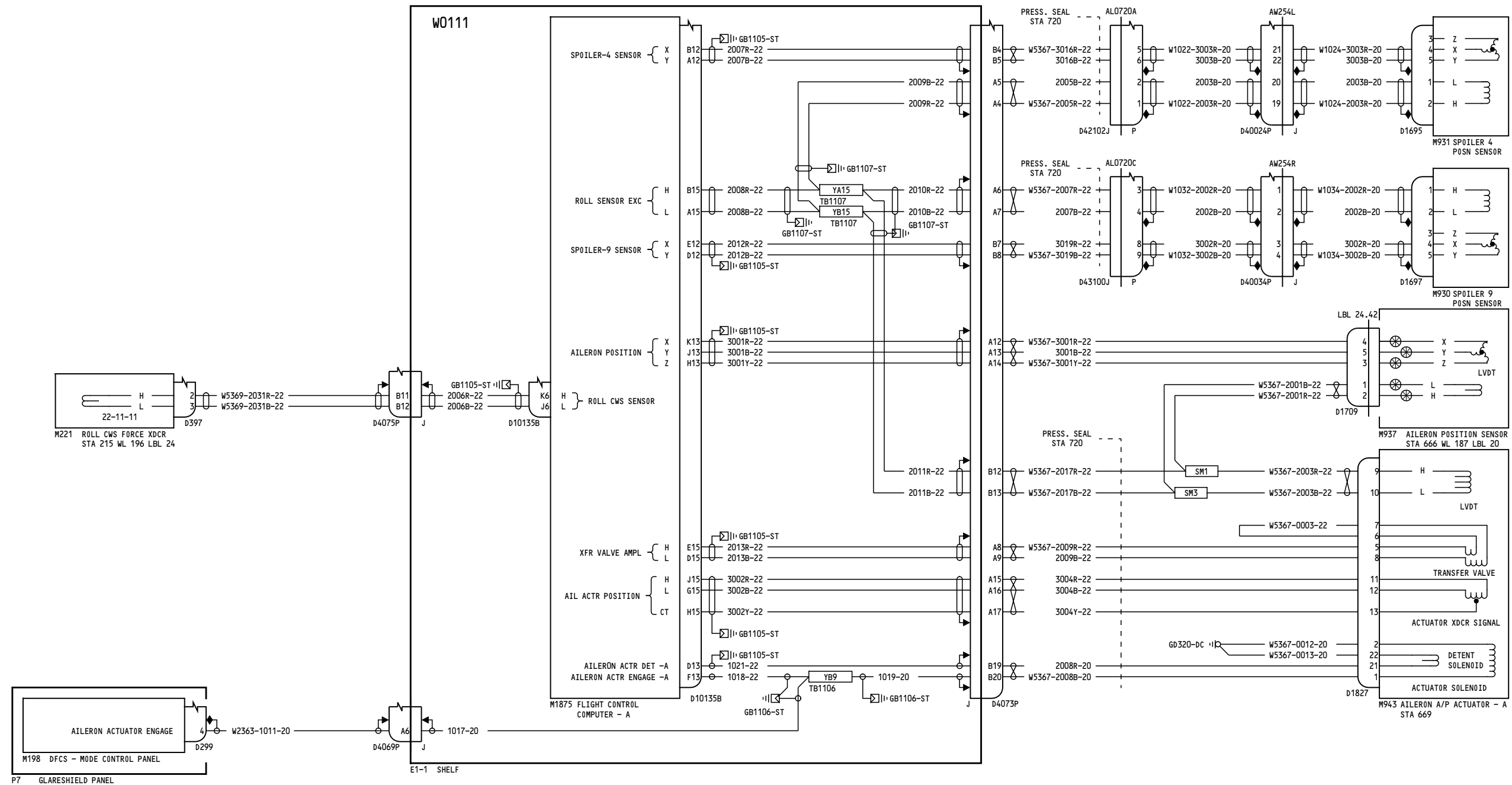
- E1-2 SHELF:** Contains W0121 (ILS RCVR TUNING INHIBIT, M2104 MMR-1) and W0311 (FREQ LOCK, M1735 RADIO ALT TRANSCIVER -1).
- E3-1 SHELF:** Contains W0321 (FREQ LOCK, M1736 RADIO ALT TRANSCIVER -2).
- E3-2 SHELF:** Contains a FREQ LOCK component (M1735 RADIO ALT TRANSCIVER -1).
- E1-1 SHELF:** Contains W0111 (DC BUS ISOLATION -A, FREQ LOCK, REAR LOC ANT SEL -A, ILS TEST INHB/ANT -A, M1875 FCC -A).
- E1-4 SHELF:** Contains W0141 (DC BUS ISOLATION -B, FREQ LOCK, REAR LOC ANT. SEL -B, ILS TEST INHB/ANT -B, M1876 FCC -B, ILS RCVR INHIBIT TUNING, M2105 MMR-2).
- E1-5 SHELF:** Contains W0151 (FREQ LOCK, M1735 RADIO ALT TRANSCIVER -1).

Connections:

- W0121:** Connected to W0111 via W5111-0001-22 (D45115J).
- W0311:** Connected to W0111 via W5111-0025-22 (D45111P).
- W0321:** Connected to W0111 via W5111-0026-22 (D45137P).
- W0111:** Connected to W0141 via W5723-0140-22 (D40047J) and W5721-0021-22 (D41129J).
- W0141:** Connected to W0151 via W5121-0018-22 (D45125J).
- W0151:** Connected to W0121 via W5111-0001-22 (D45115J).
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- W0151:** Connected to W0121 via W5111-0001-22 (D45115J).
- W0121:** Connected to W0311 via W5111-0025-22 (D45111P).
- W0311:** Connected to W0321 via W5111-0026-22 (D45137P).
- W0111:** Connected to W0141 via

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

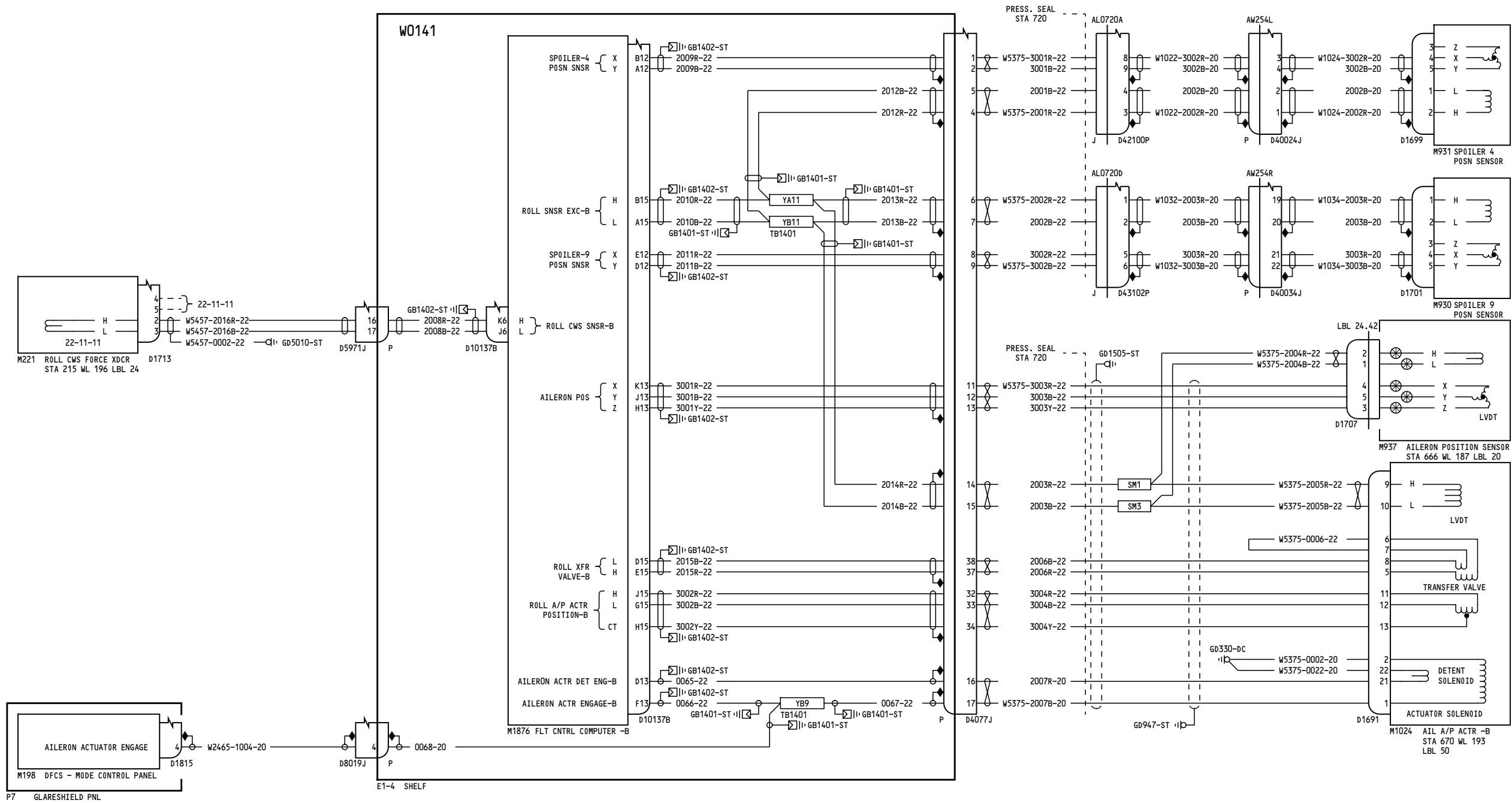
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DFCS - A AND B A/P
ROLL SENSORS AND
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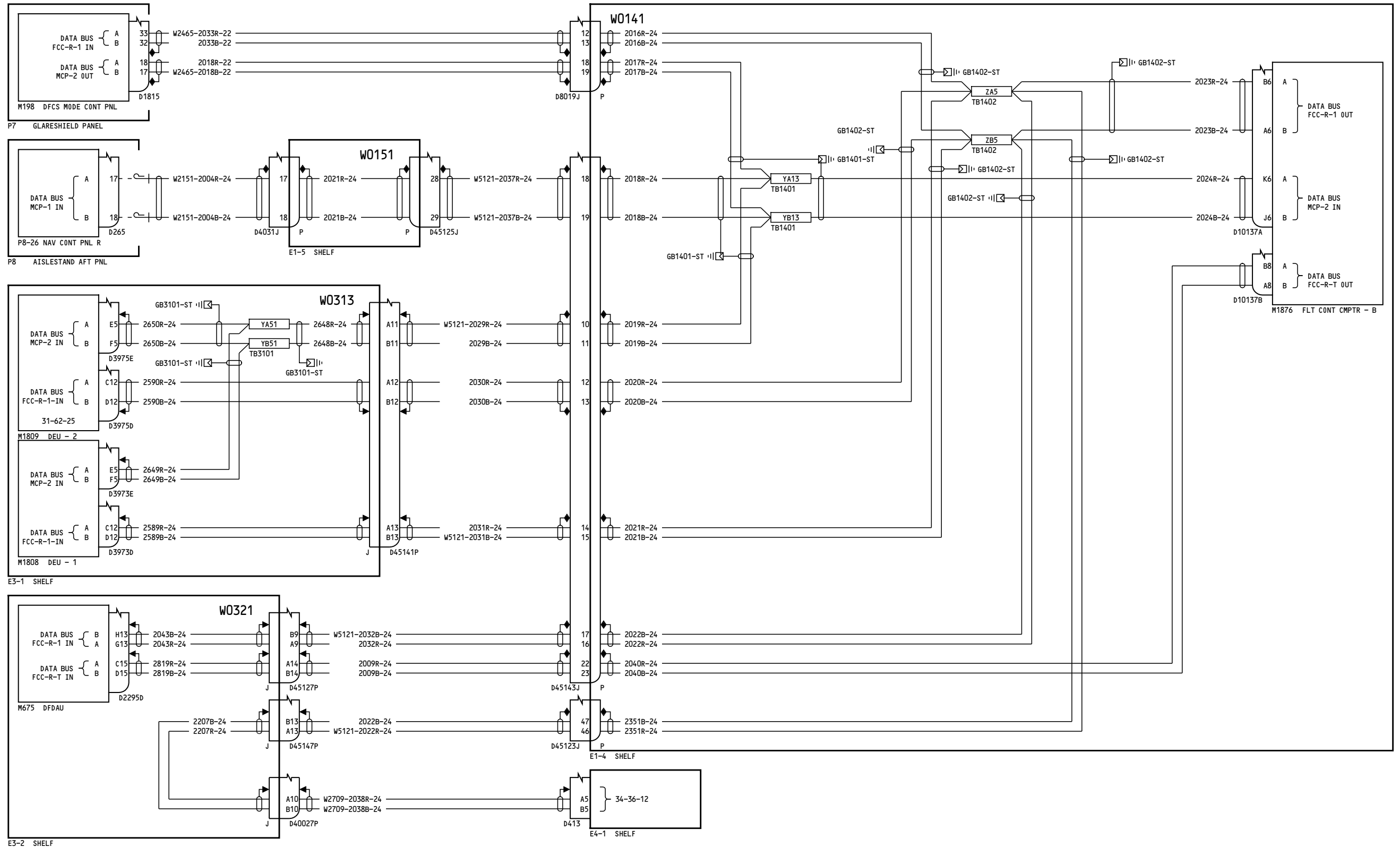
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DFCS - DIGITAL BUS
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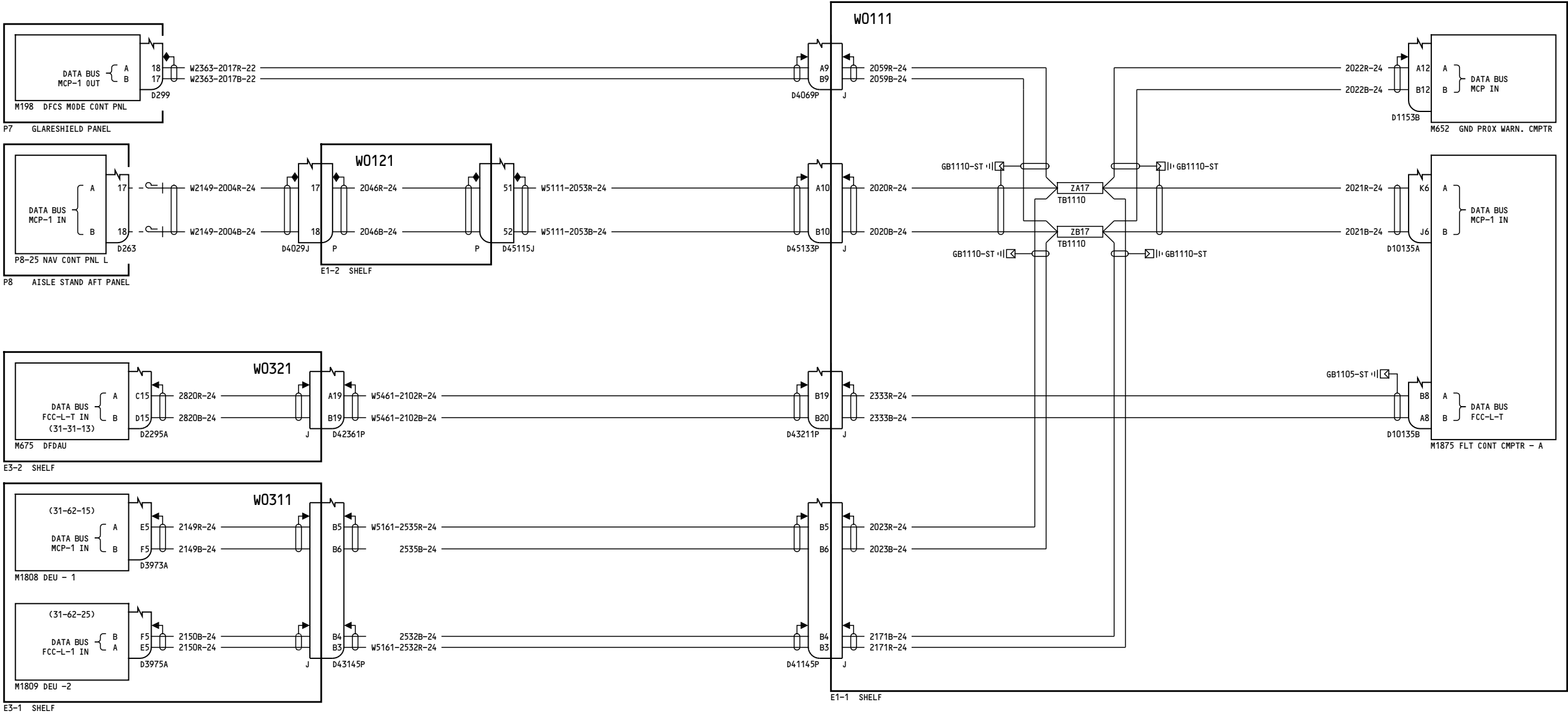
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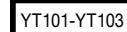
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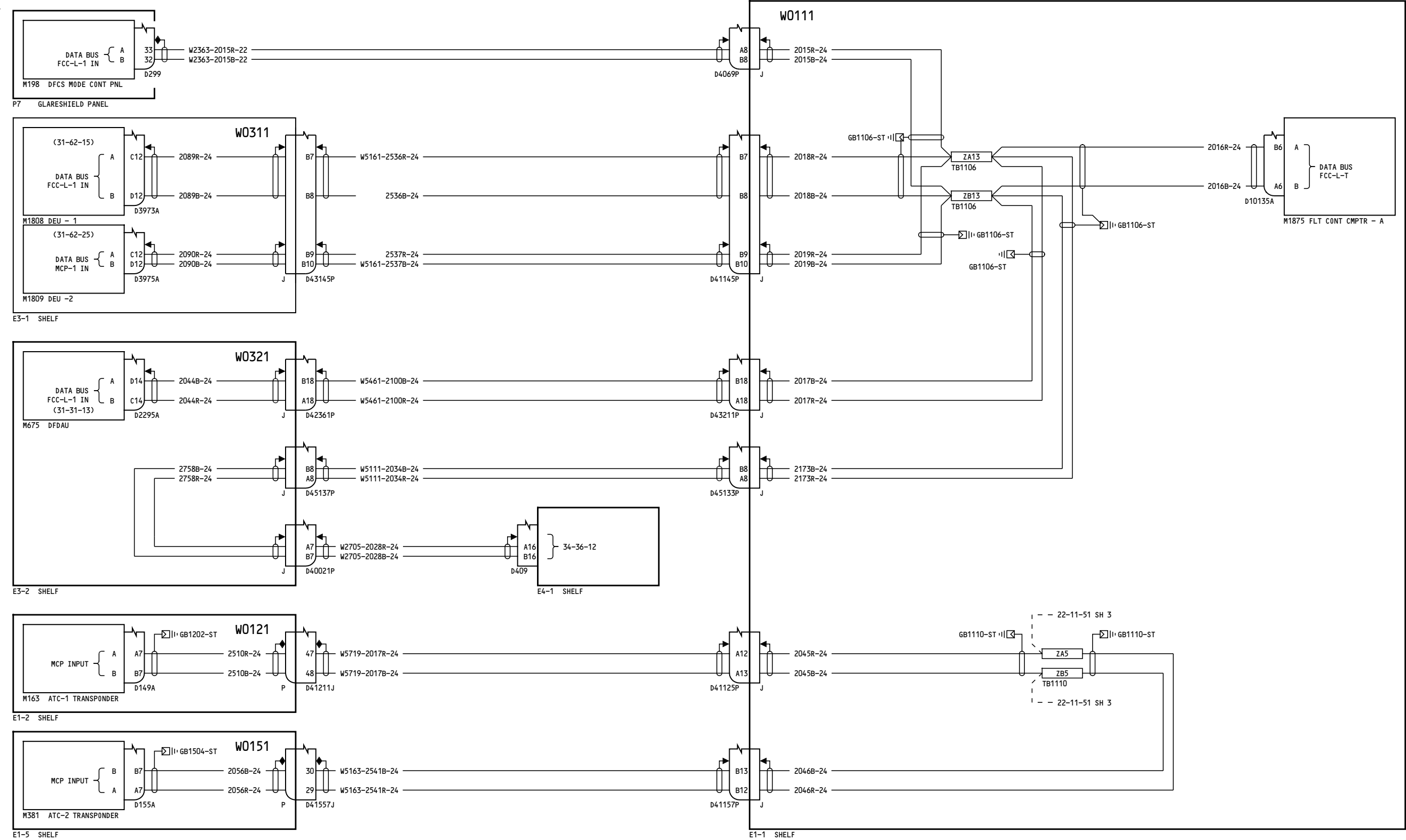
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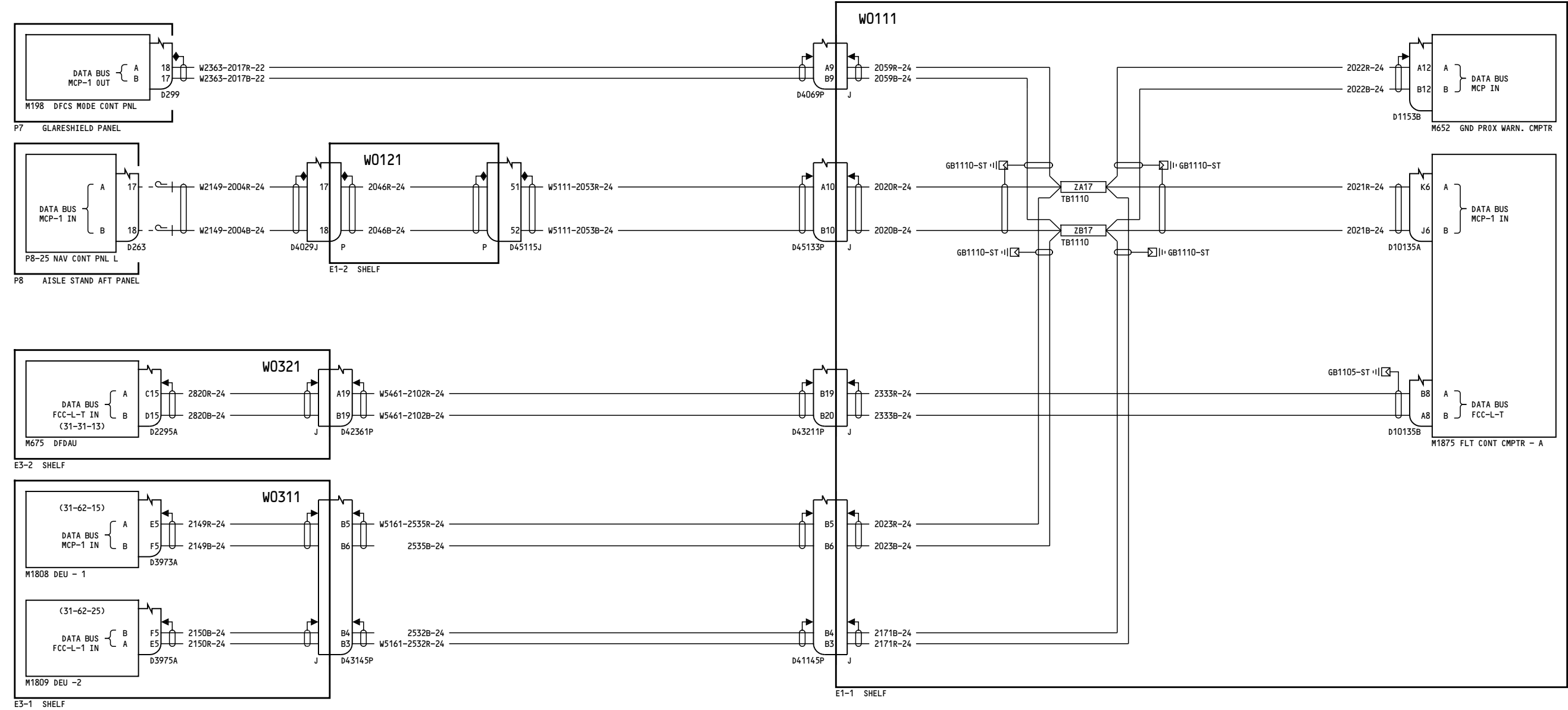
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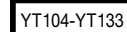
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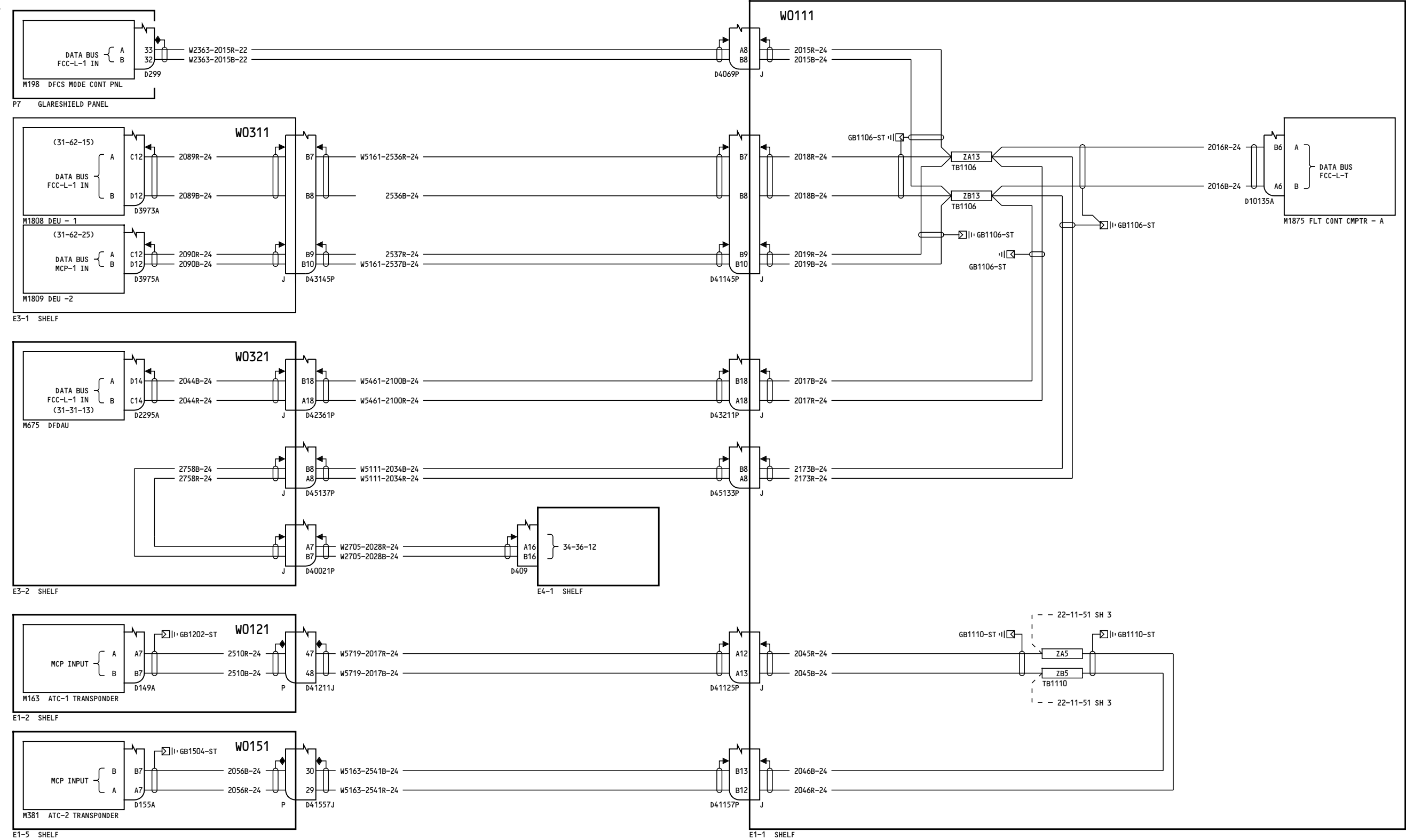
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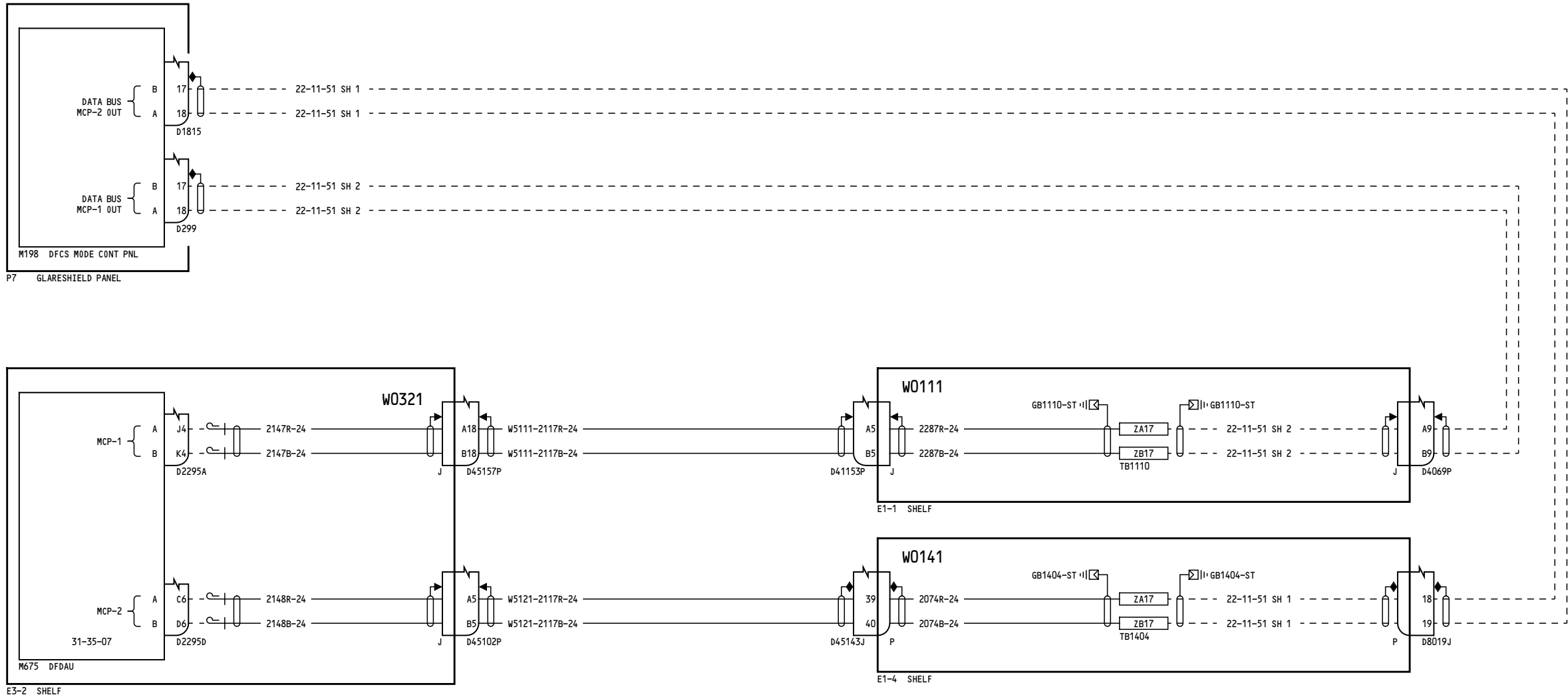
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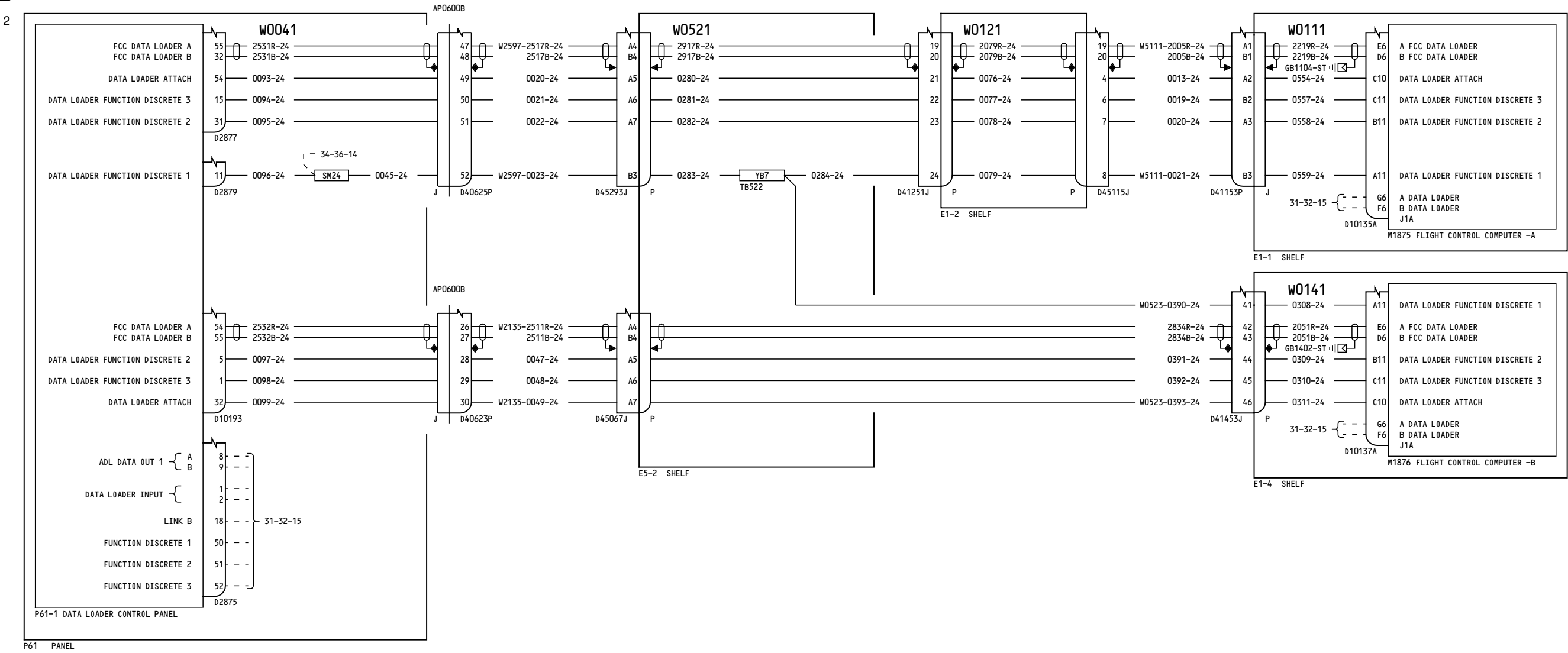
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DFCS - DIGITAL BUS
INTERFACES - DATA LOADER

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W0111

M1875 FLIGHT CONTROL COMPUTER -A

**M1992 PROGRAM SW MODULE
AUTOPILOT SYS A**

Connections:

- ALTITUDE ALERT 200FT/750FT FIXED { A8 0101-24 1
- B8 0102-24 2
- A/S WARN E7 0103-24 3
- CWS WARN G8 0104-24 4
- CWS OVERRIDE F8 0105-24 5
- SINGLE IRU G7 0106-24 6
- HDG SEL H6 0107-24 7
- CONFIGURATION PINS { C8 0108-24 8
- D8 0109-24 9
- EDFCS 1 E8 0110-24 10
- INHIBIT GS CAPT BEFORE LOC CAPT J7 0111-24 11
- ALT/SPD INTVN J8 0112-24 12
- AP MODEL ID 0 B7 0116-22 □|| GD1102-DC
- AP MODEL ID 1 C7 - - } NC
- AP MODEL ID 2 D7 - - }
- AP MODEL ID 3 C14 - - }
- AP MODEL ID 4 C15 - - }
- DUAL CHANNEL F7 0114-24 14
- MLS INSTALLED H8 0115-24 15
- GLS INSTALLED A7 0444-24 16
- RADIO ALTITUDE < 10 FT (A) J3 - - 78-34-11 17
- RADIO ALTITUDE < 200 FT G3 - - 32-64-21 18
- RADIO ALTITUDE < 500 FT E3 - - } NC
- RADIO ALTITUDE < 1000 FT C3 - - }
- RADIO ALTITUDE < 1500 FT A3 - - }
- RADIO ALTITUDE < 800 FT C1 - - 32-64-21 22
- ODD PARITY (J1A) K8 0124-24 24
- D10135A
- GD1104-DC ||□ 0125-22 25
- DME HOLD A1 0081-22 □|| GD1103-DC
- RADIO ALTITUDE < 10 FT (B) J3 - - 27-62-11
- A INDEX A5 - - NC
- (J1B) D10135B

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

DFCS - A AND B OPTION PINS

22-11-75

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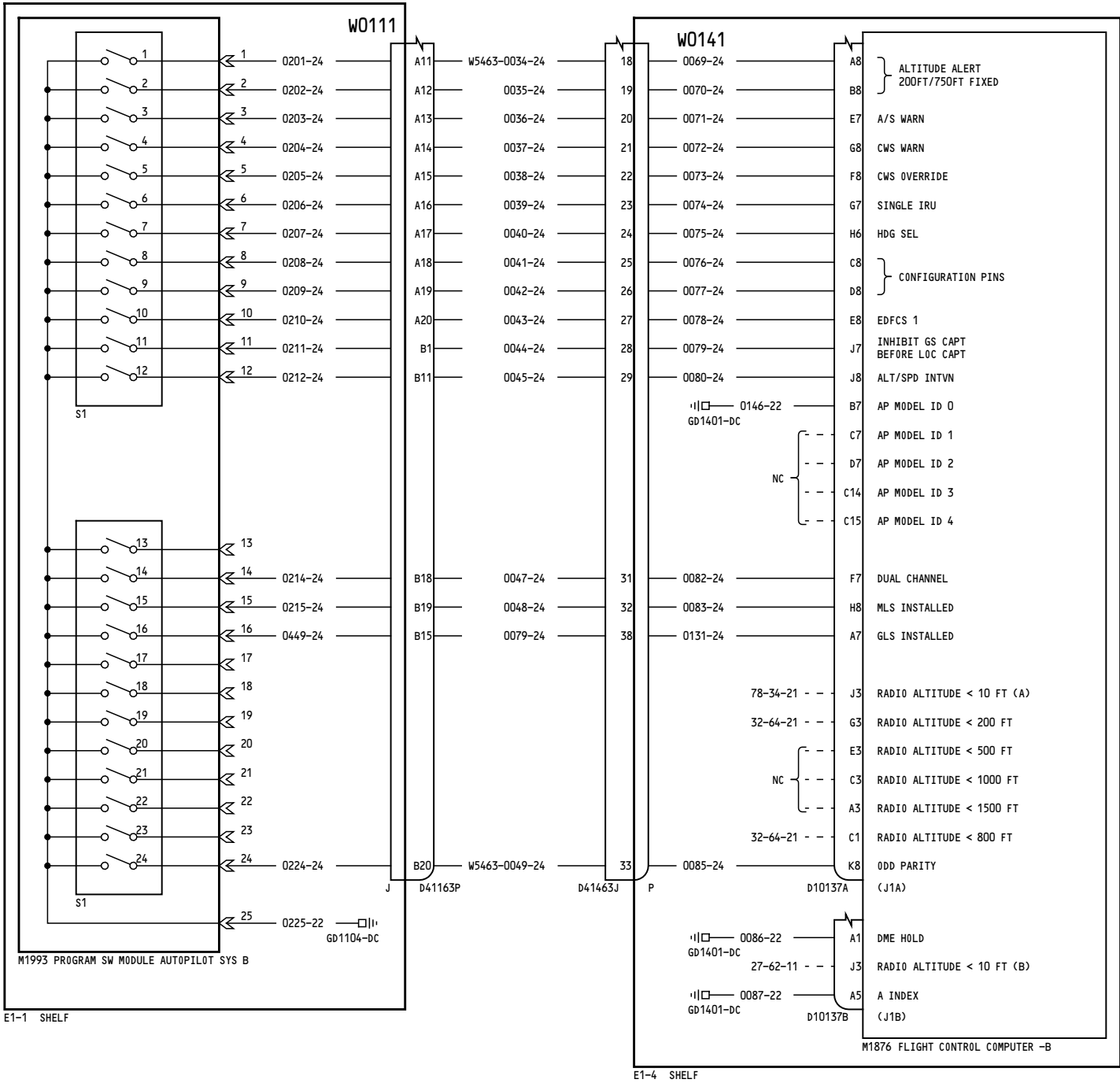
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M1993												(W0119)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0

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

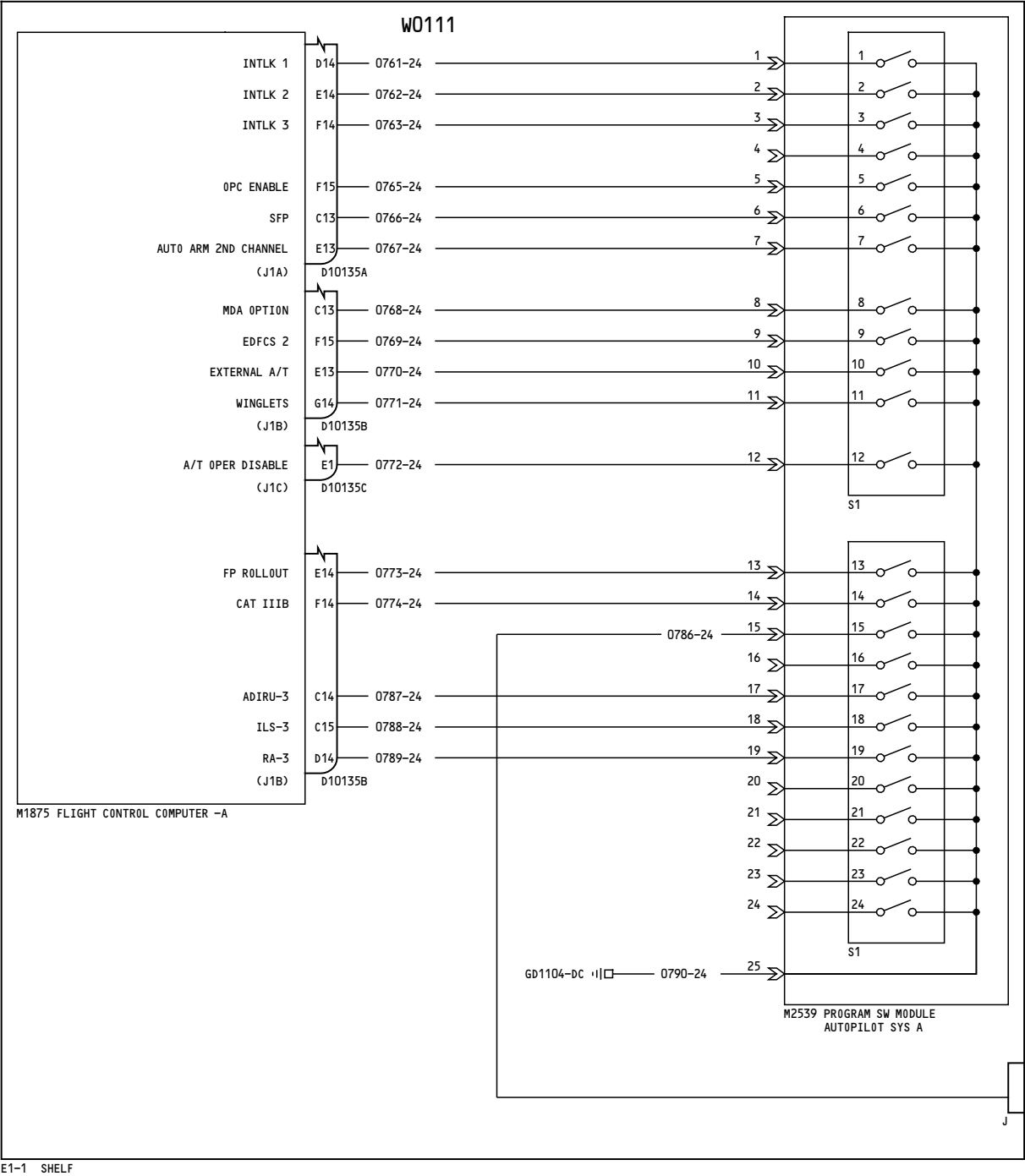
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M2539 (W0119)																							
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0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

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
	D280A351



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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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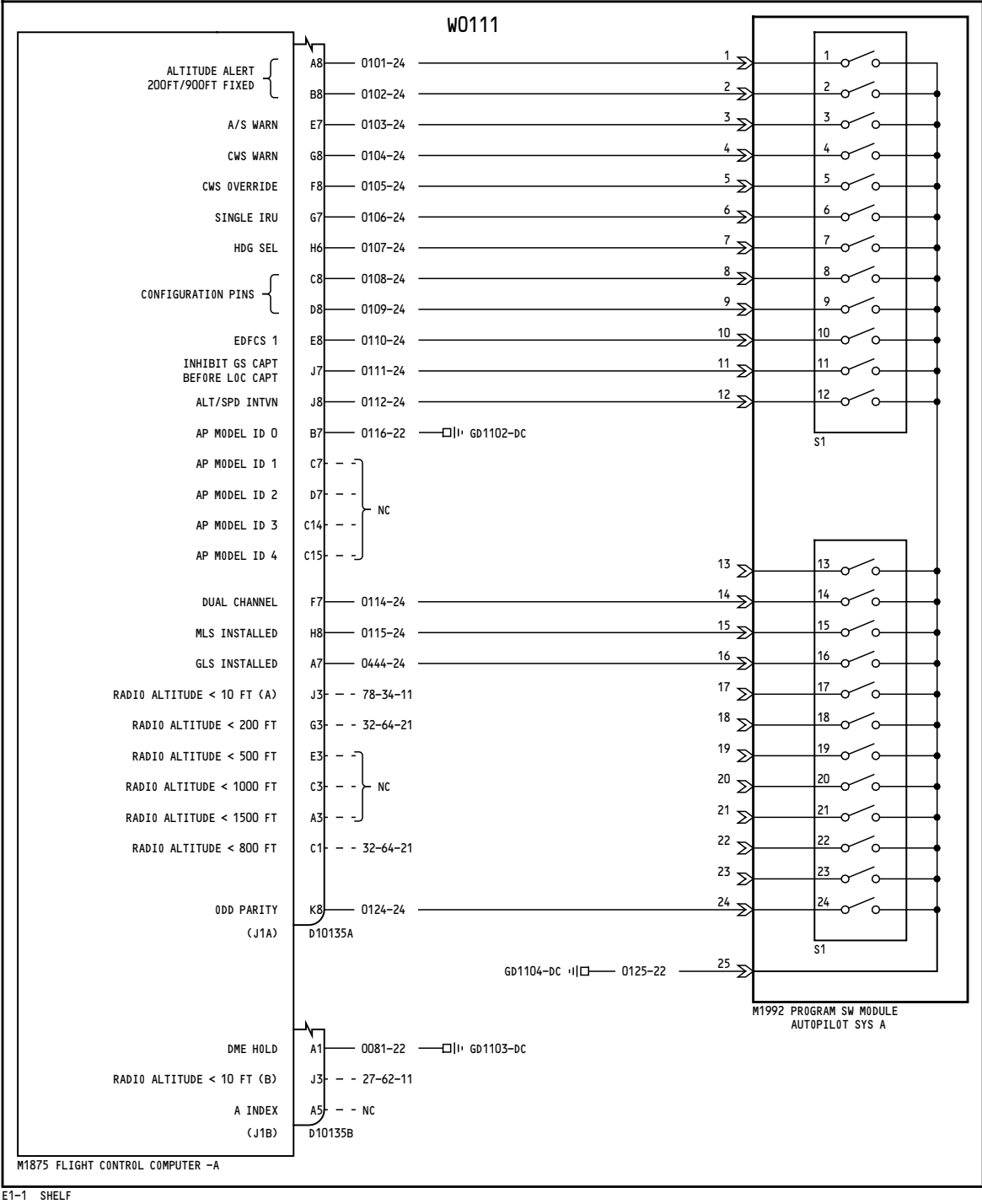
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NOTES:

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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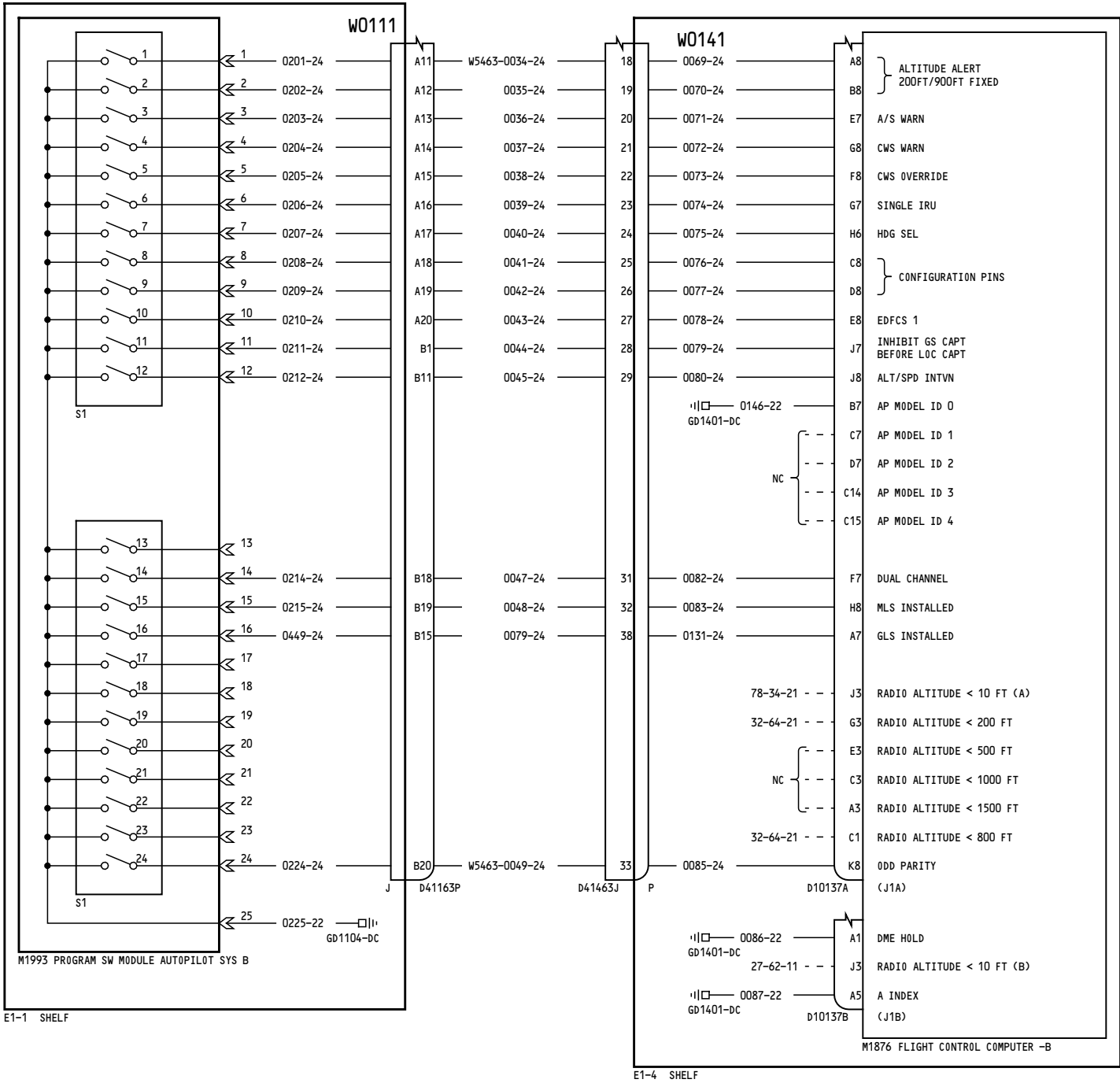
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Incorporates
22-1295

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1

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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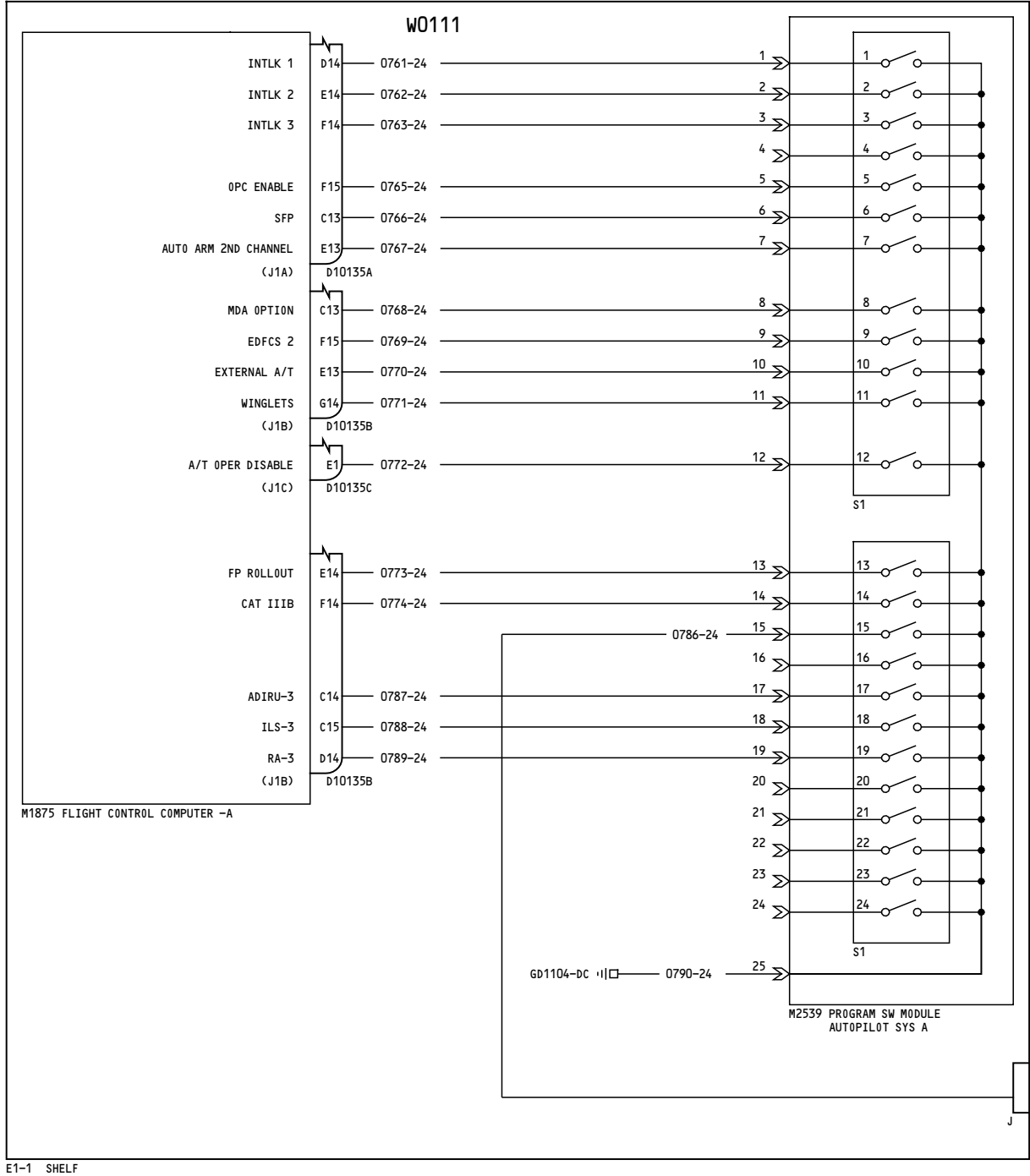
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Incorporates
22-1295

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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
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NOTES:

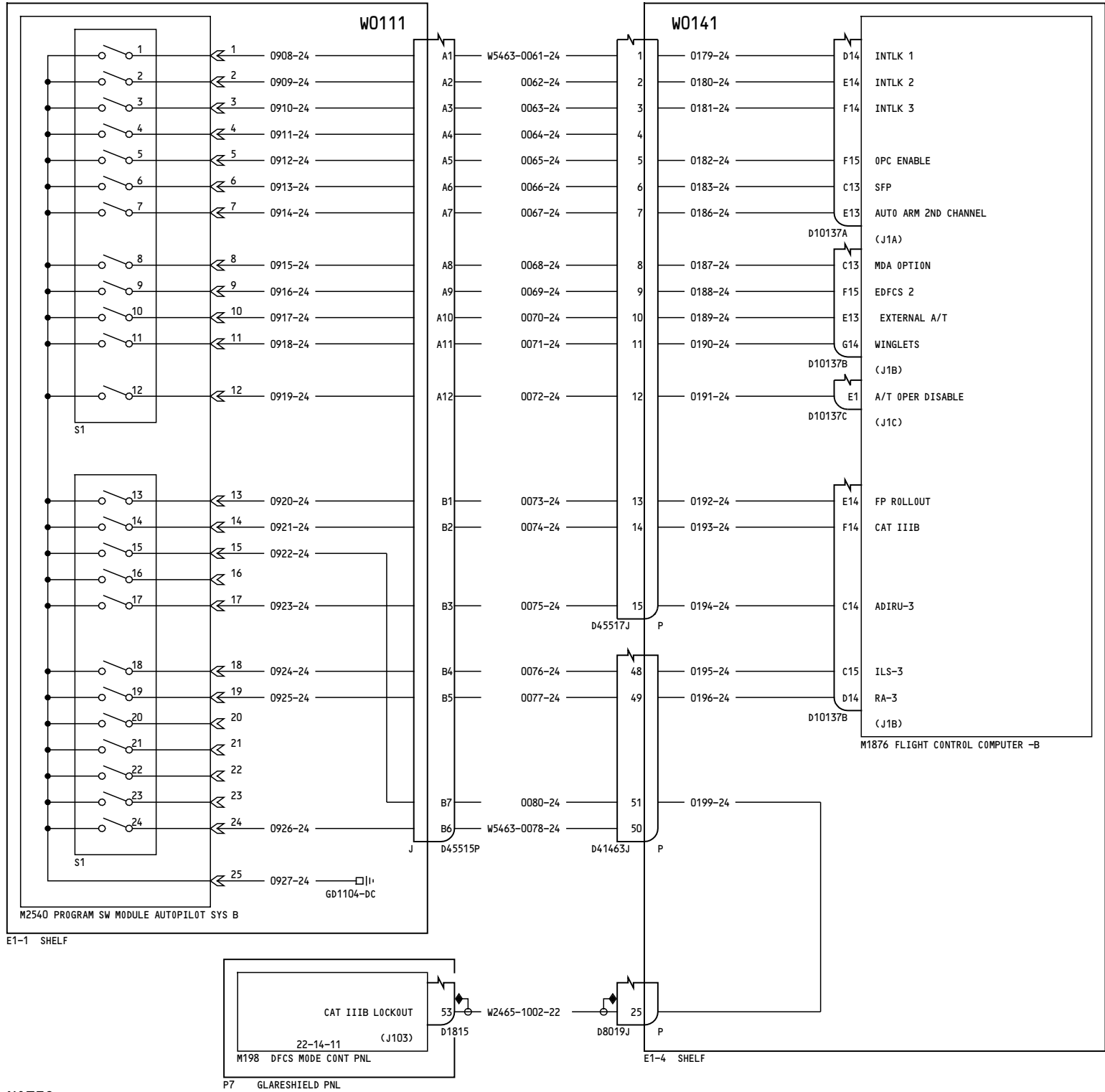
1 SEE CHART FOR SWITCH POSITION
LOGIC "1" SWITCH IS ON (CLOSED)
LOGIC "0" SWITCH IS OFF (OPEN)

YT101-YT104	DFCS - A AND B OPTION PINS
	D280A351



737-800 WIRING DIAGRAM MANUAL

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1

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

YT101-YT104

DFCS - A AND B
OPTION PINS

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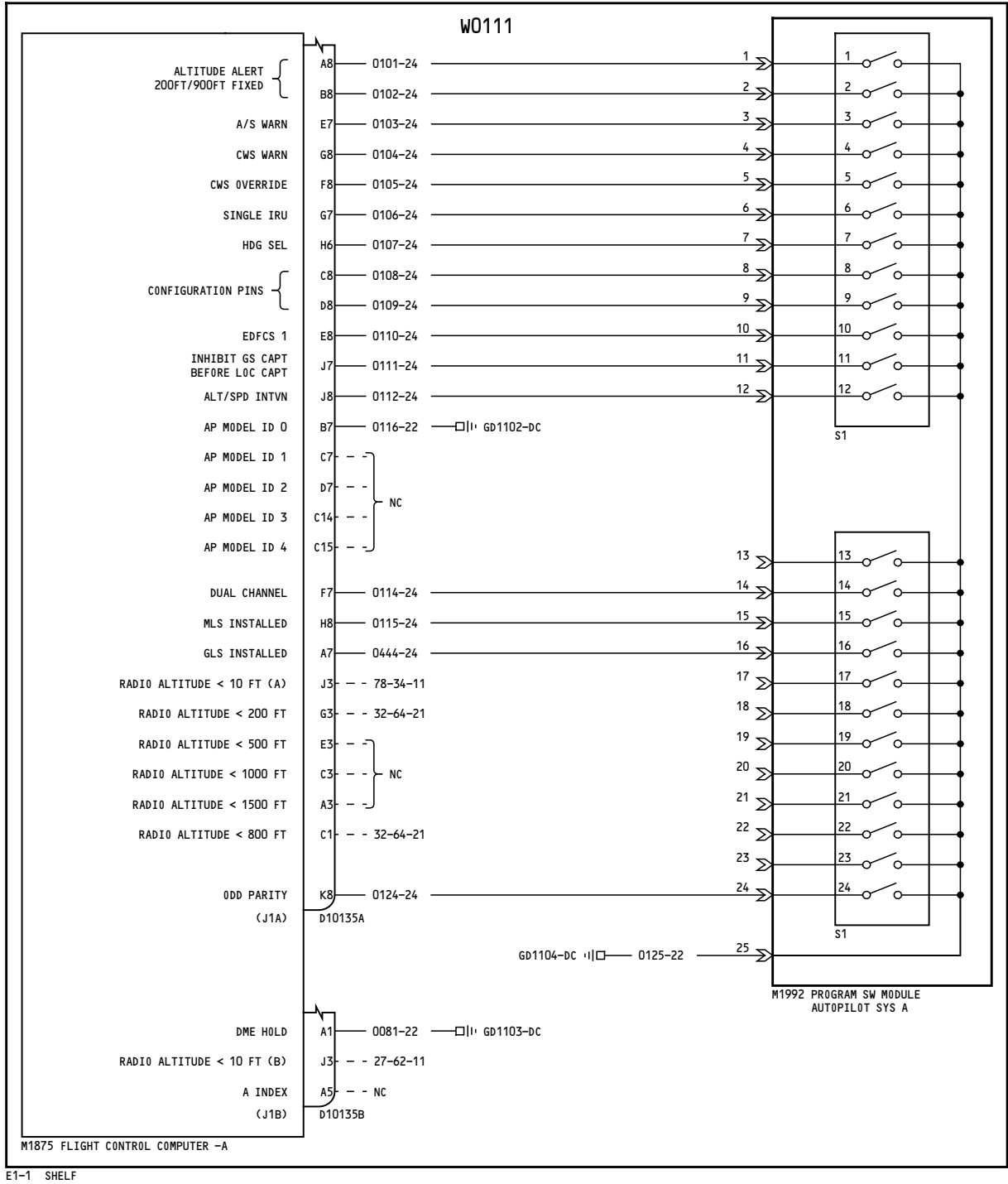
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M1992 (W0119)																							
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1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1

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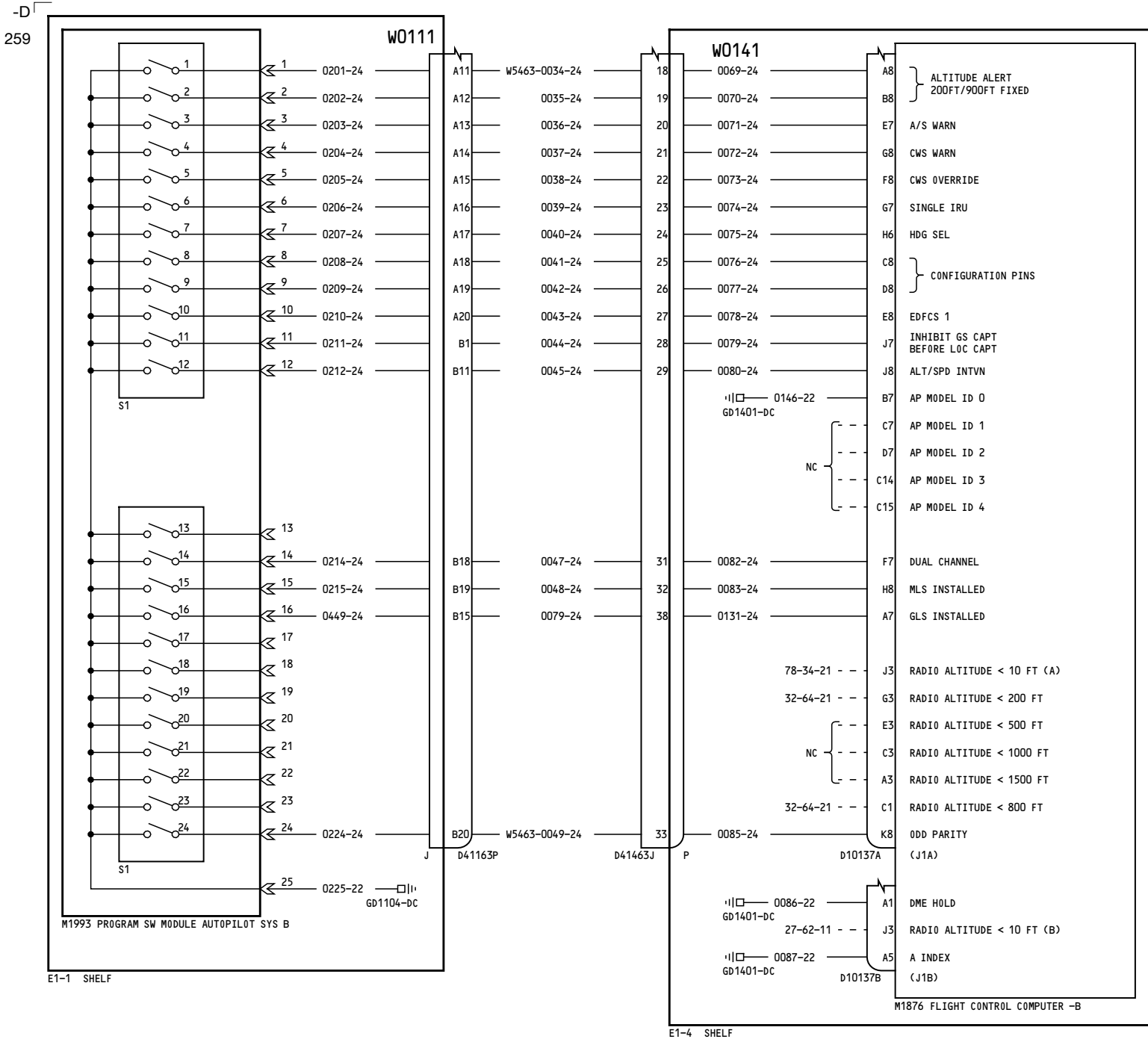
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M1993 (W0119)																							
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1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1

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

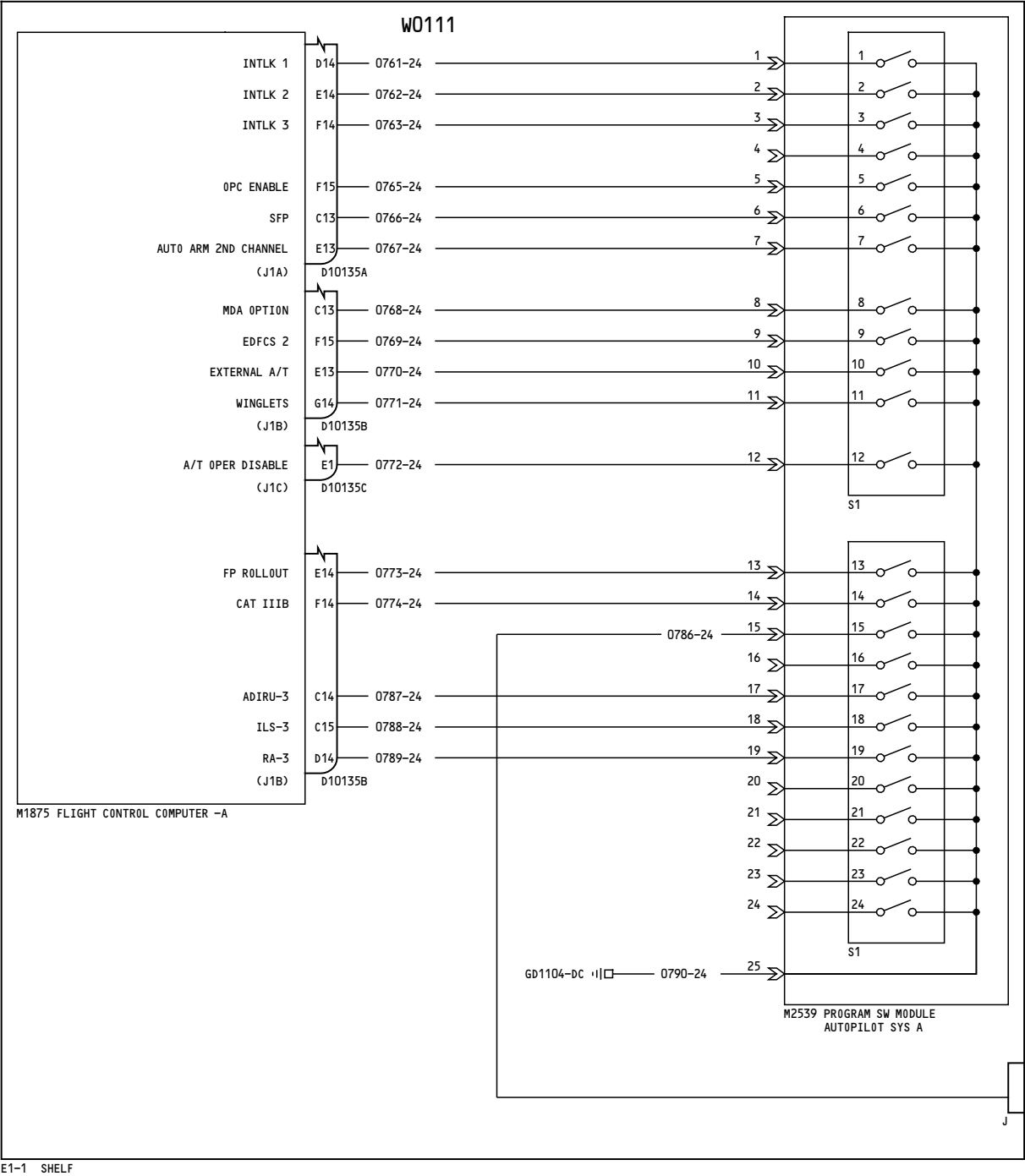
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M2539 (W0119)																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0

NOTES:

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

YT105-YT119, YT126-YT129

DFCS - A AND B
OPTION PINS

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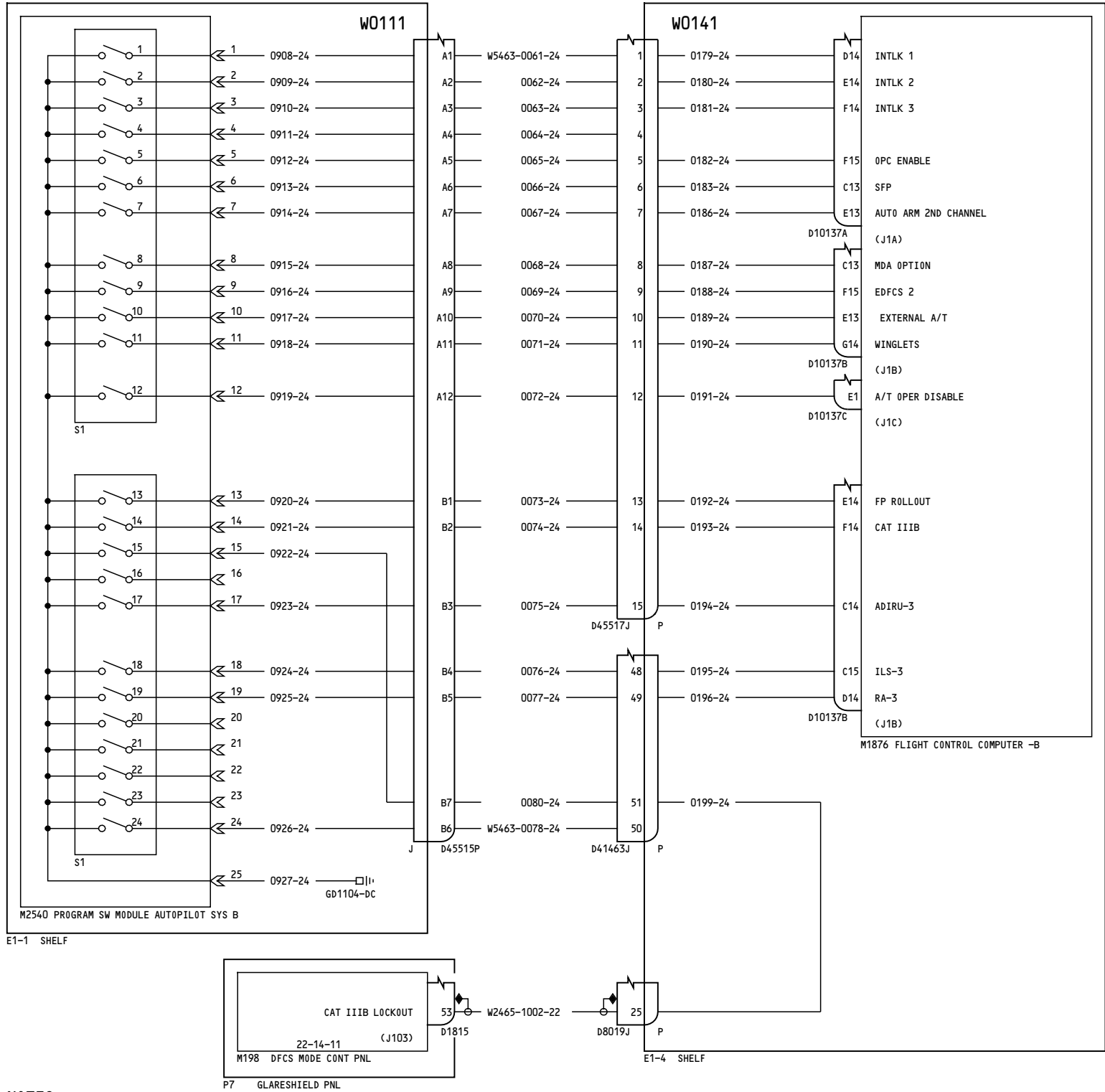
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1

M2540												(W0119)											
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YT105-YT119, YT126-YT129

DFCS - A AND B
OPTION PINS

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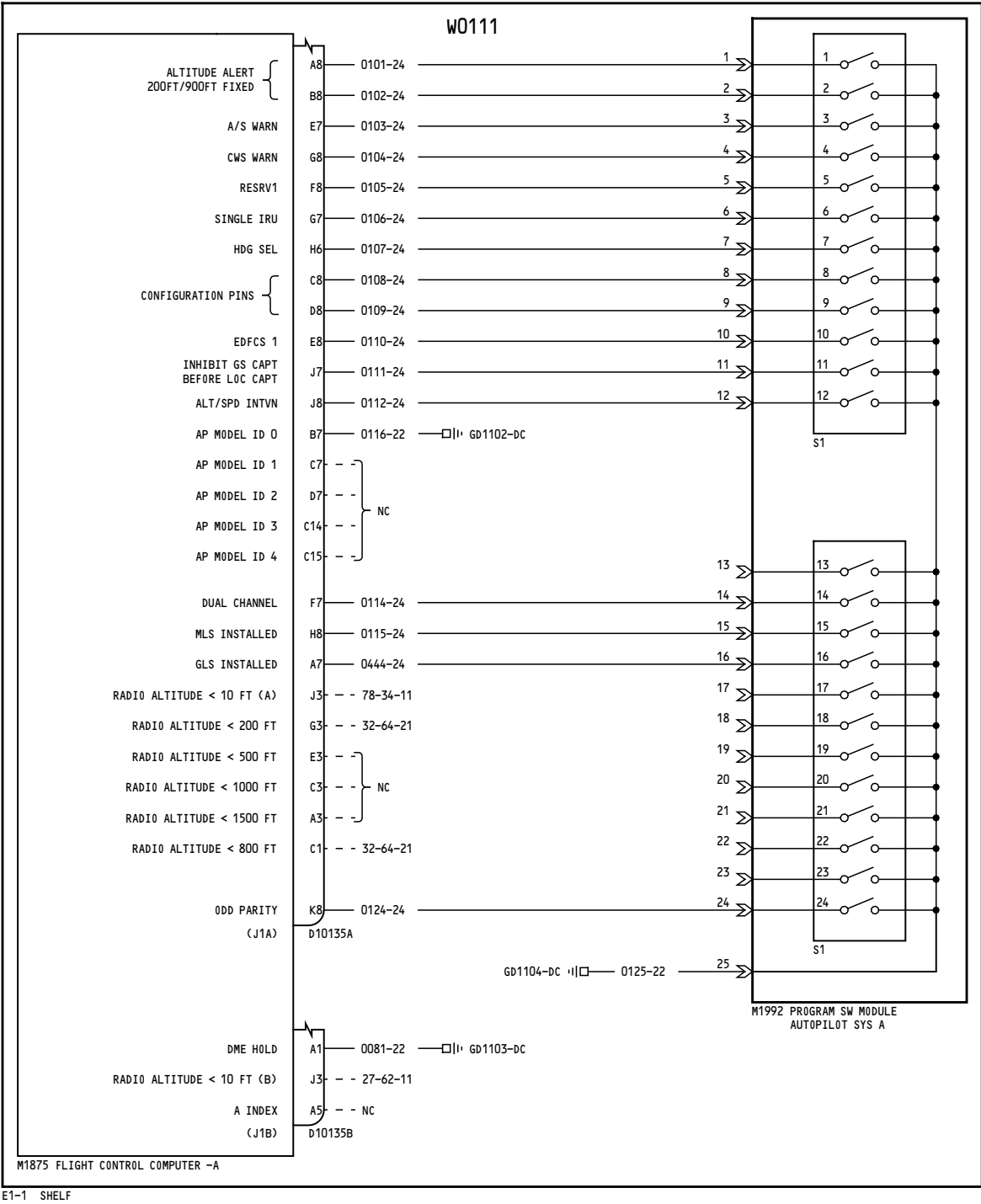
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1

M1992												(W0119)											
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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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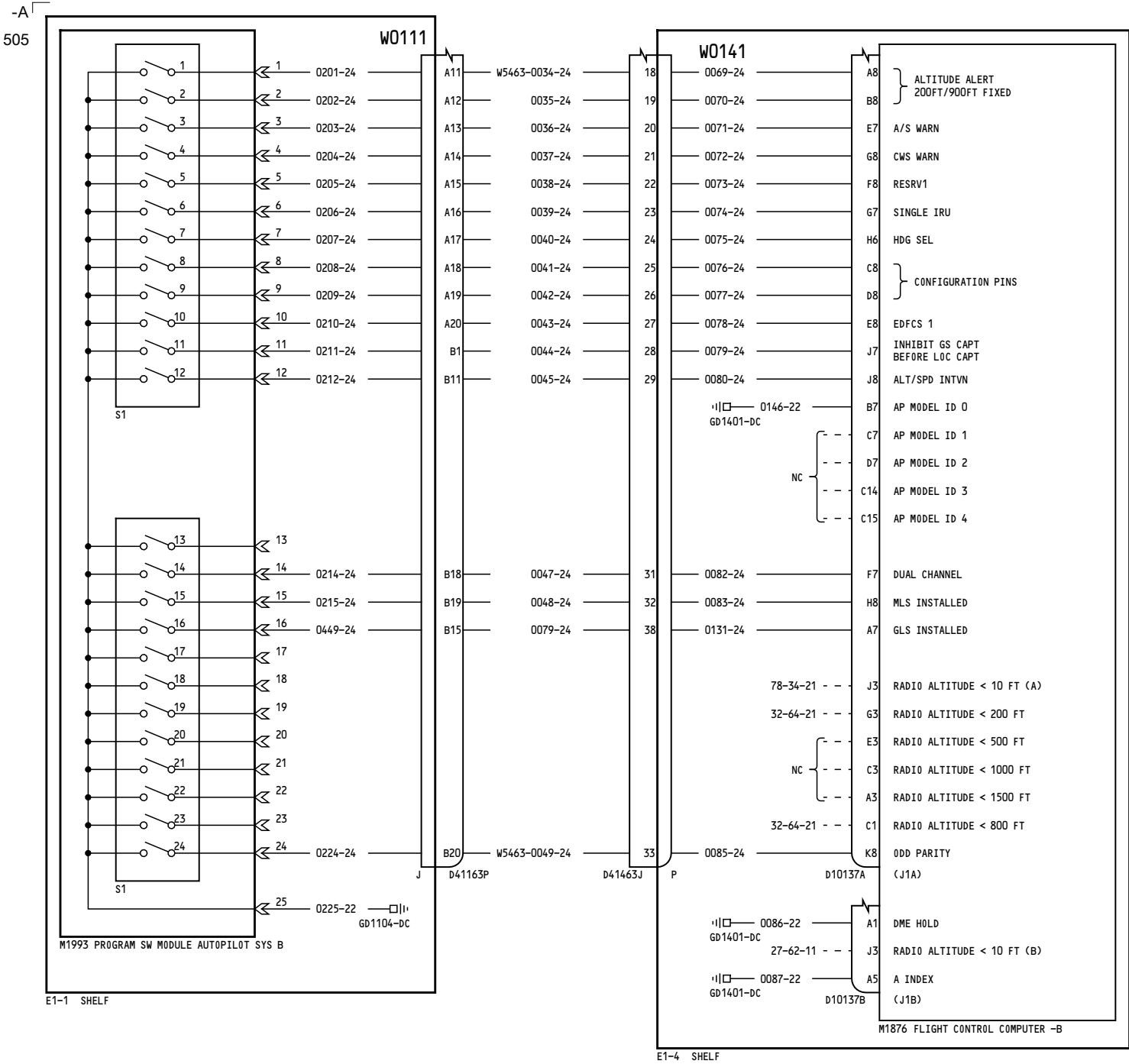
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M1993 (W0119)																							
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1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0

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

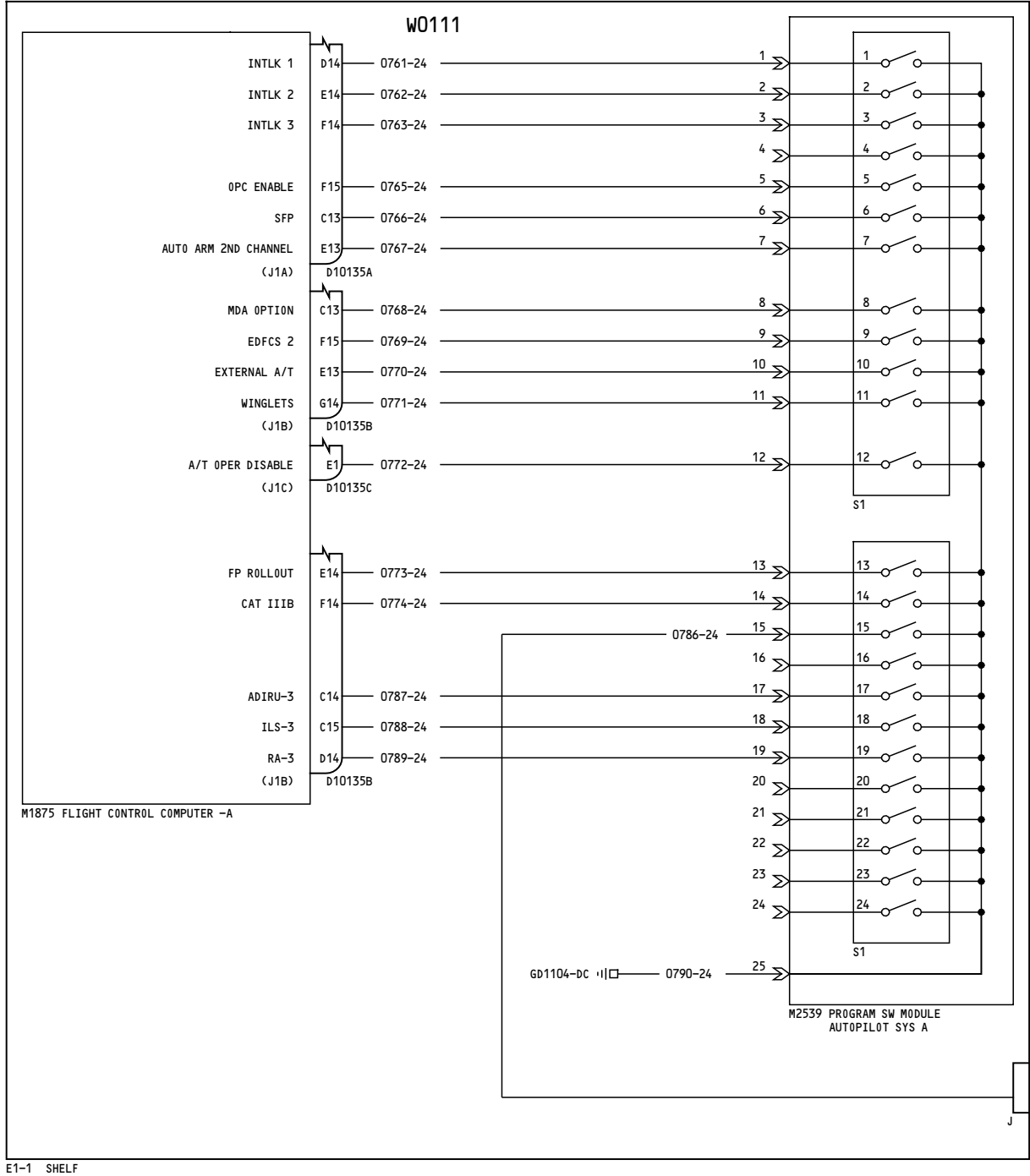
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M2539 (W0119)																							
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NOTES:

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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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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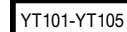
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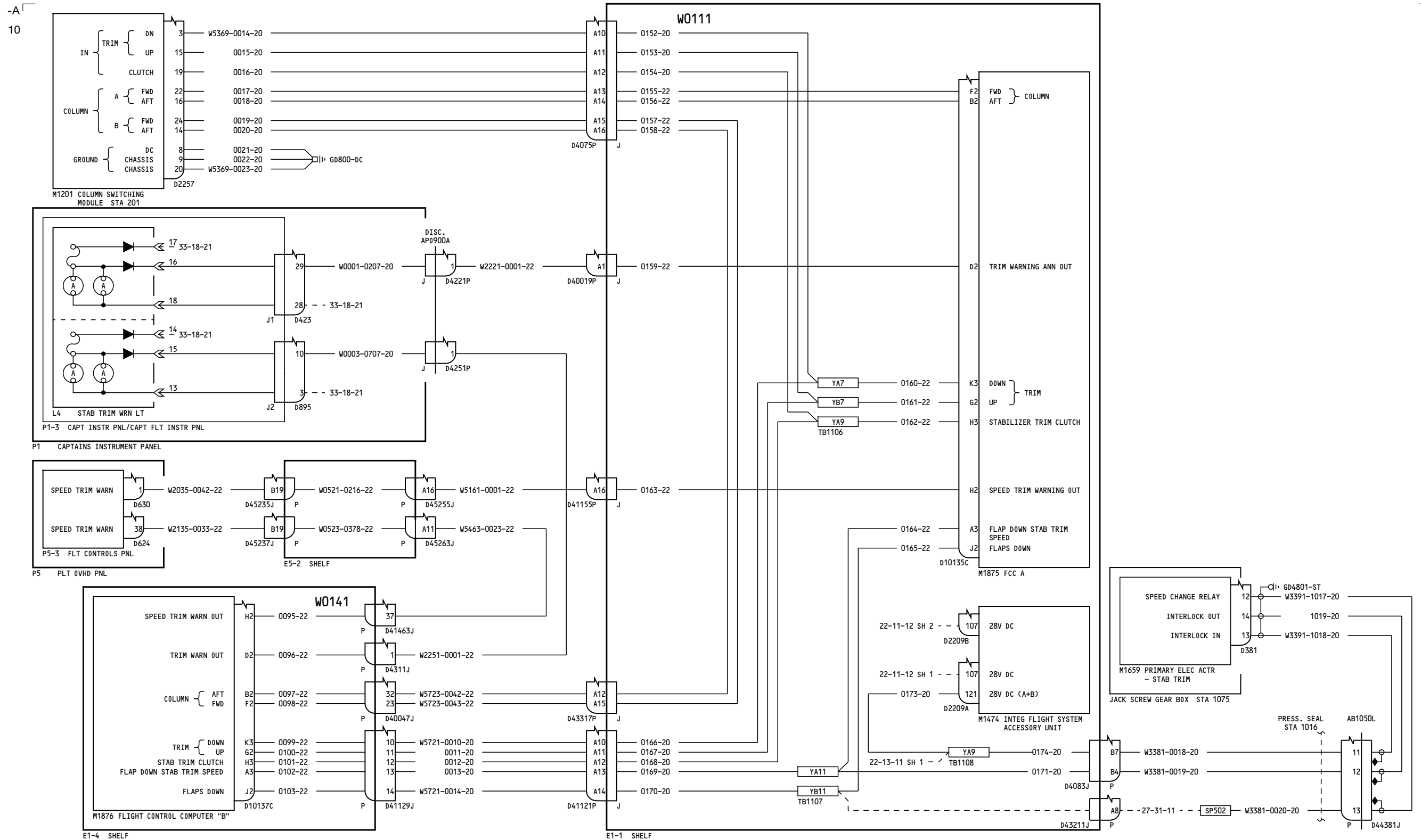
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YT101-YT105

**DFCS - A AND B SPEED
AND STABILIZER TRIM**

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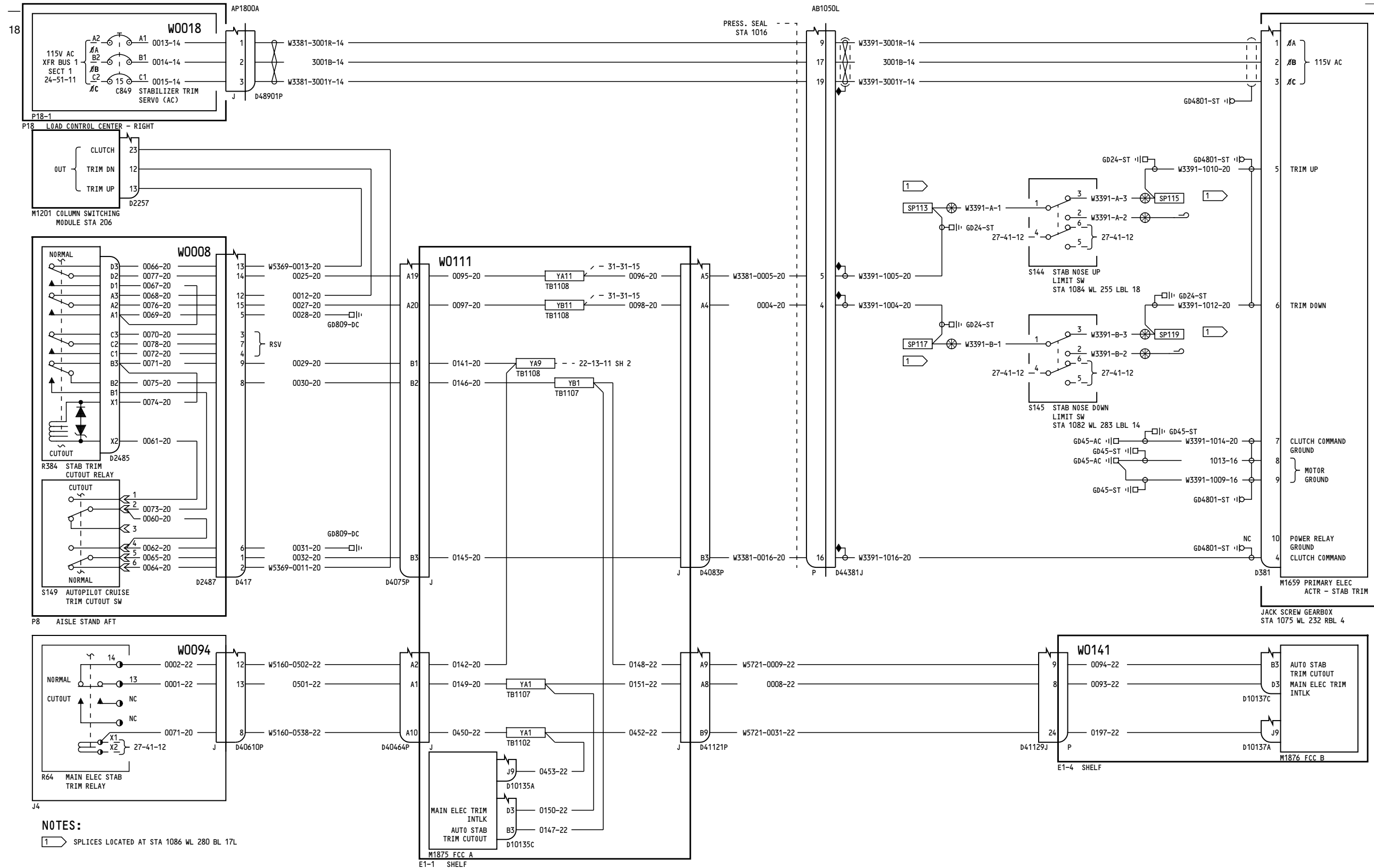
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YT106-YT133

DFCS - A AND B SPEED
AND STABILIZER TRIM

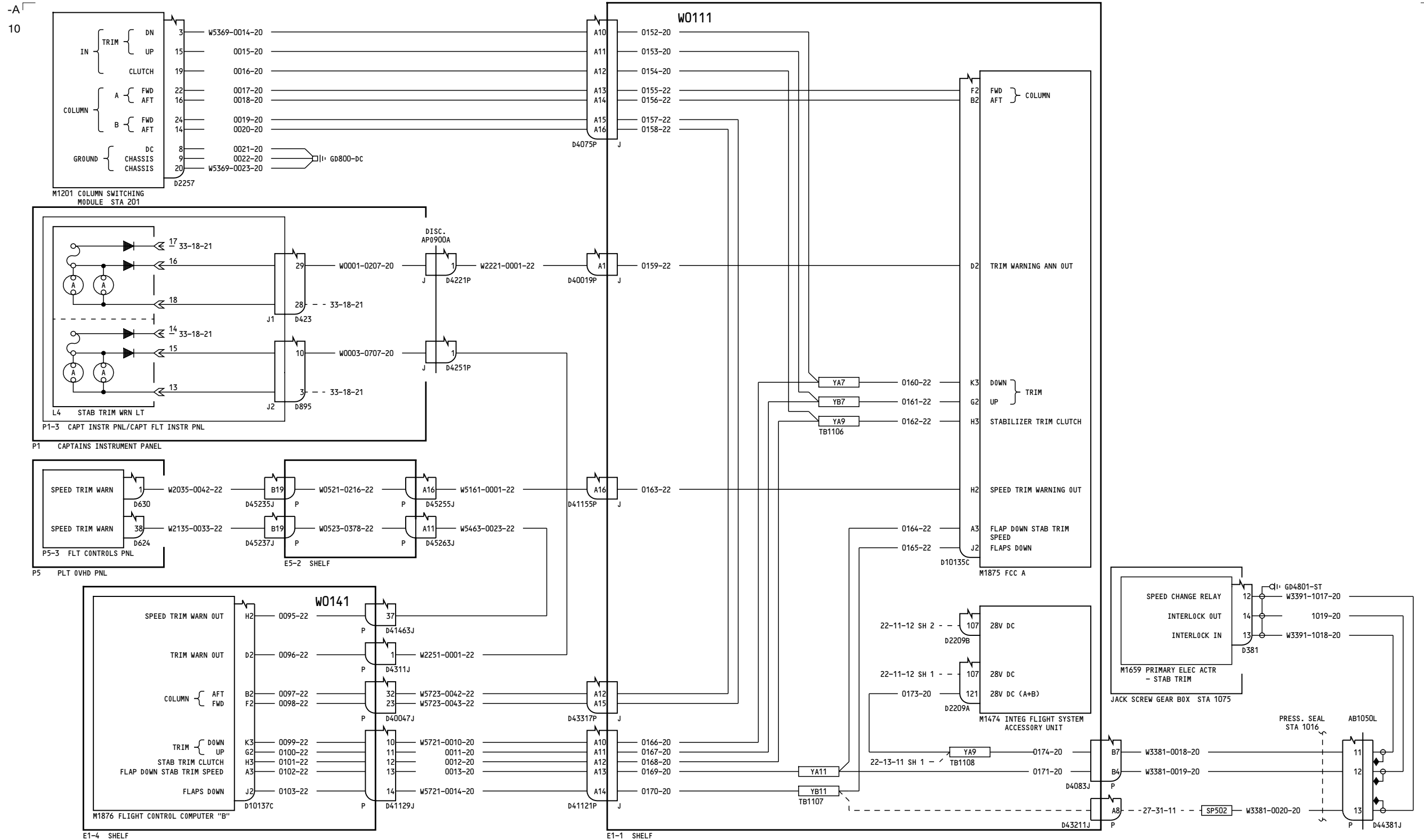
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YT106-YT133

**DFCS - A AND B SPEED
AND STABILIZER TRIM**

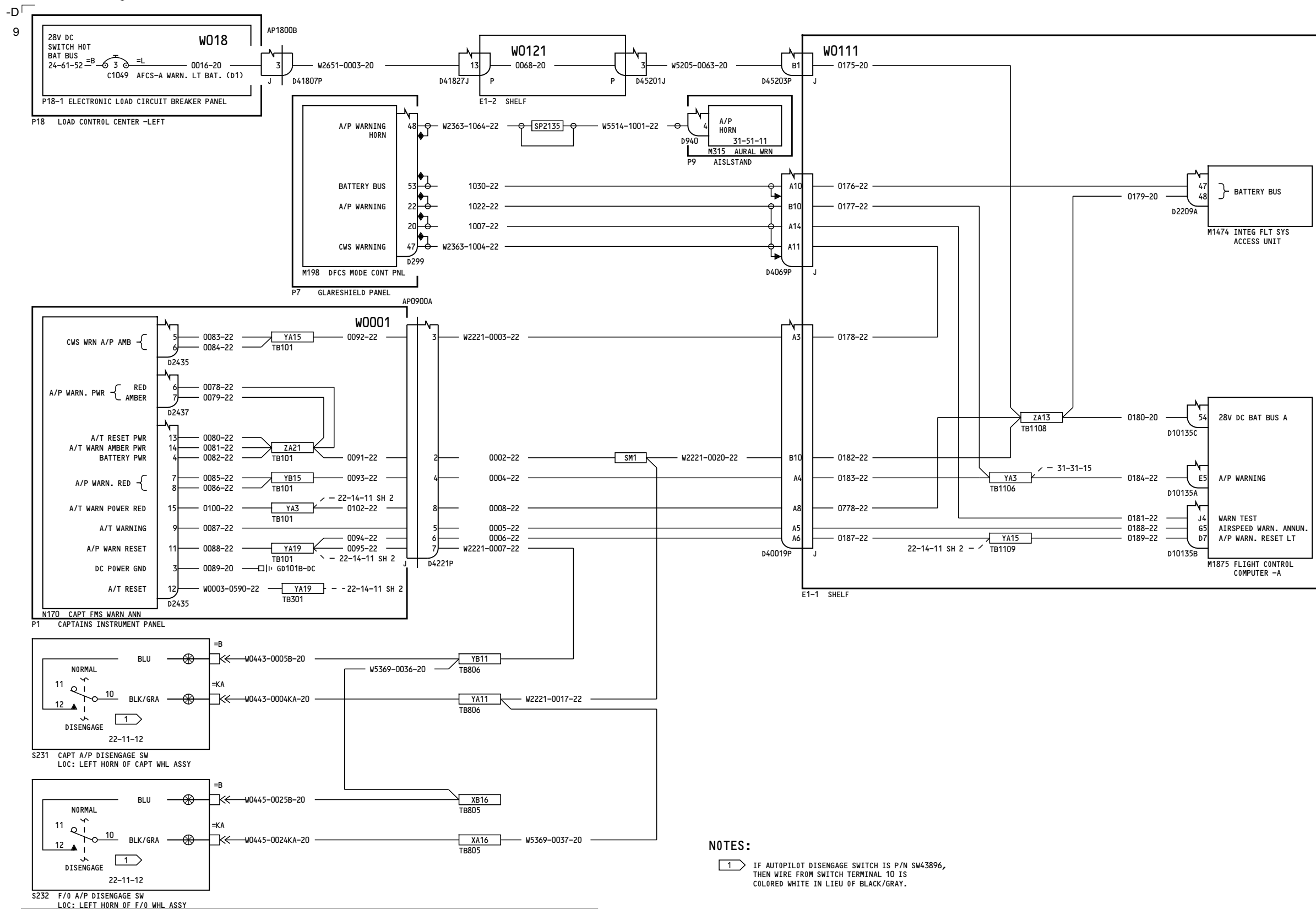
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DFCS - ANNUNCIATION AND WARNING

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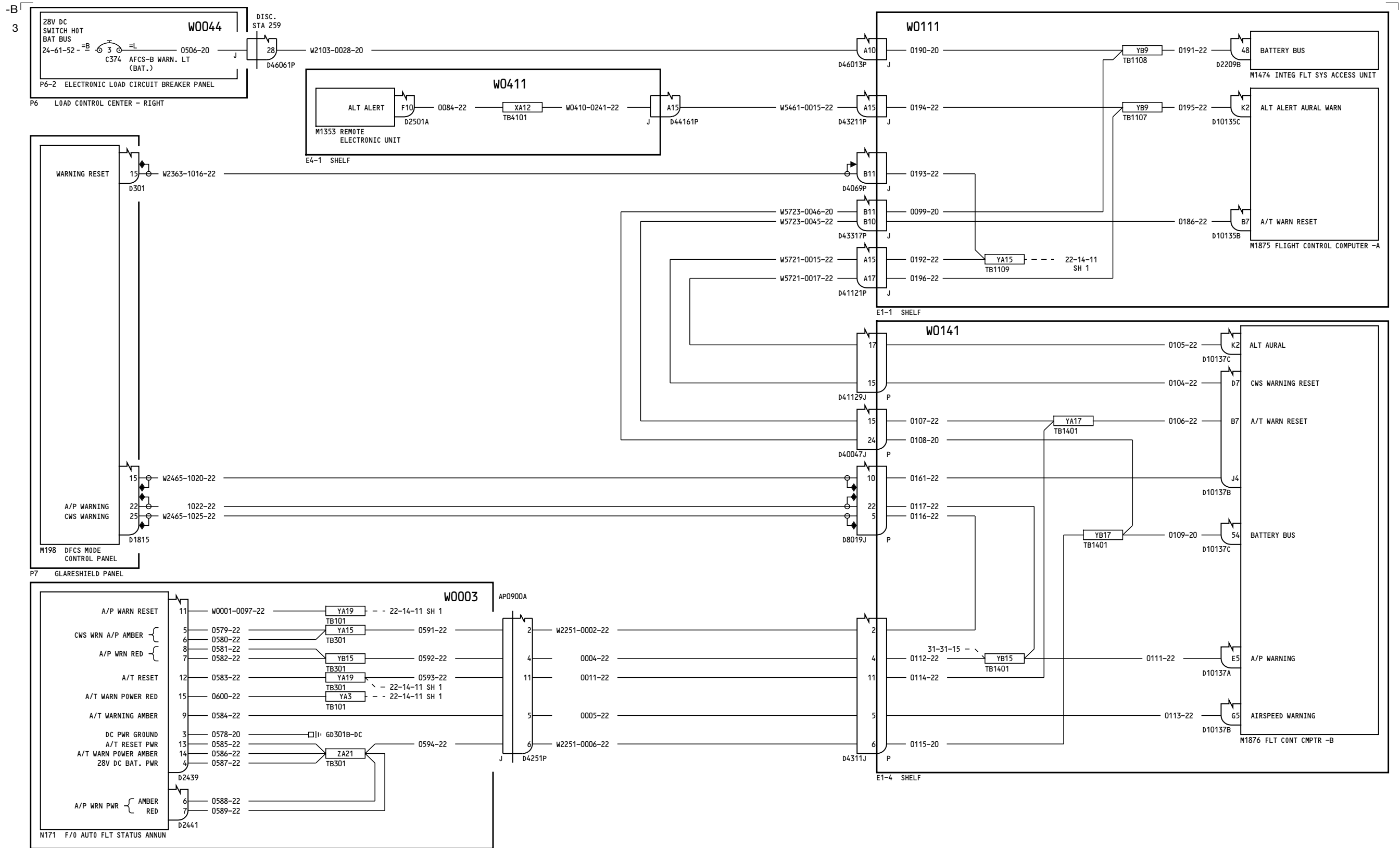
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DFCS - ANNUNCIATION AND WARNING

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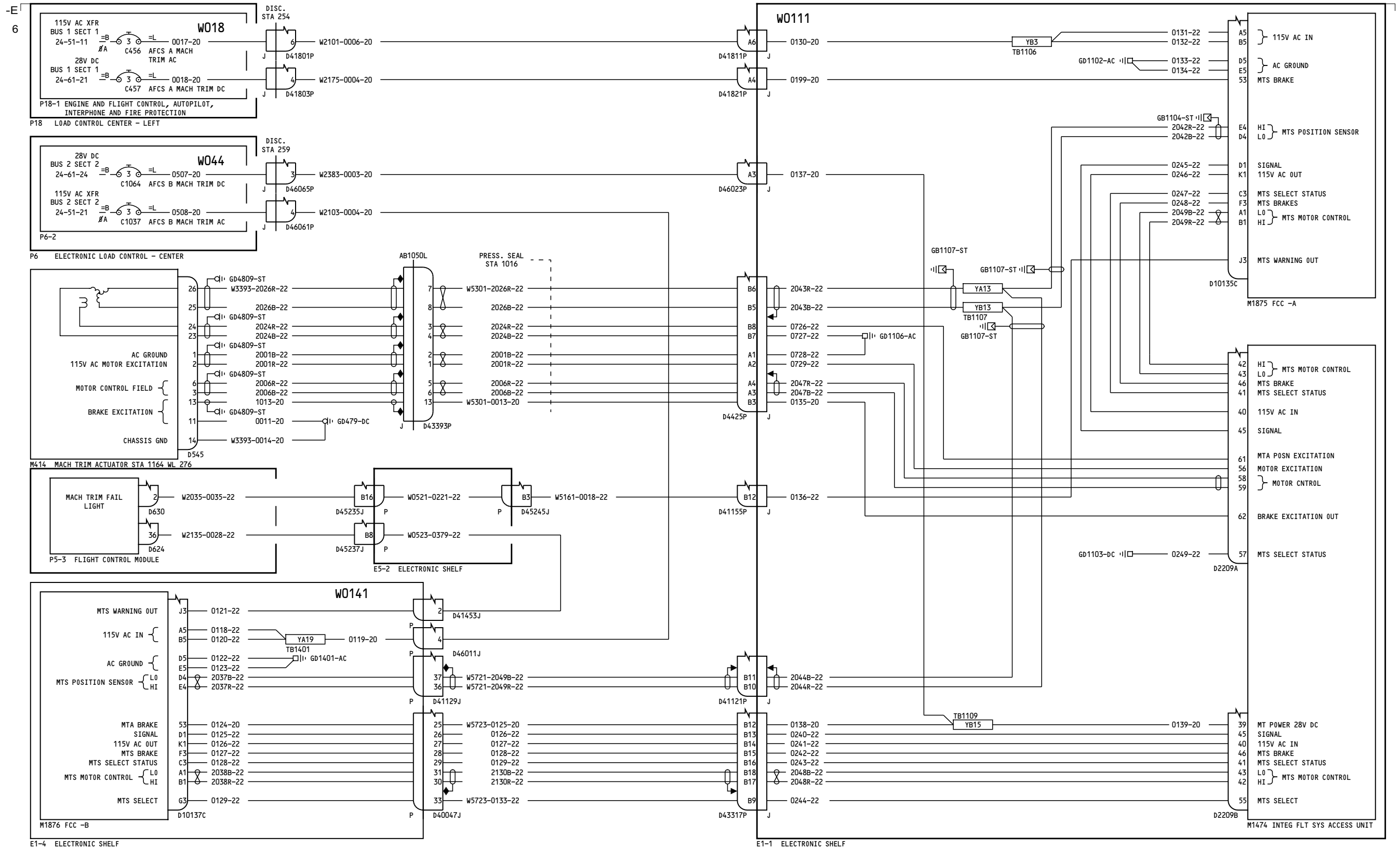
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DFCS - MACH TRIM

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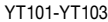
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YAW DAMPER ENGAGE INTERLOCKS

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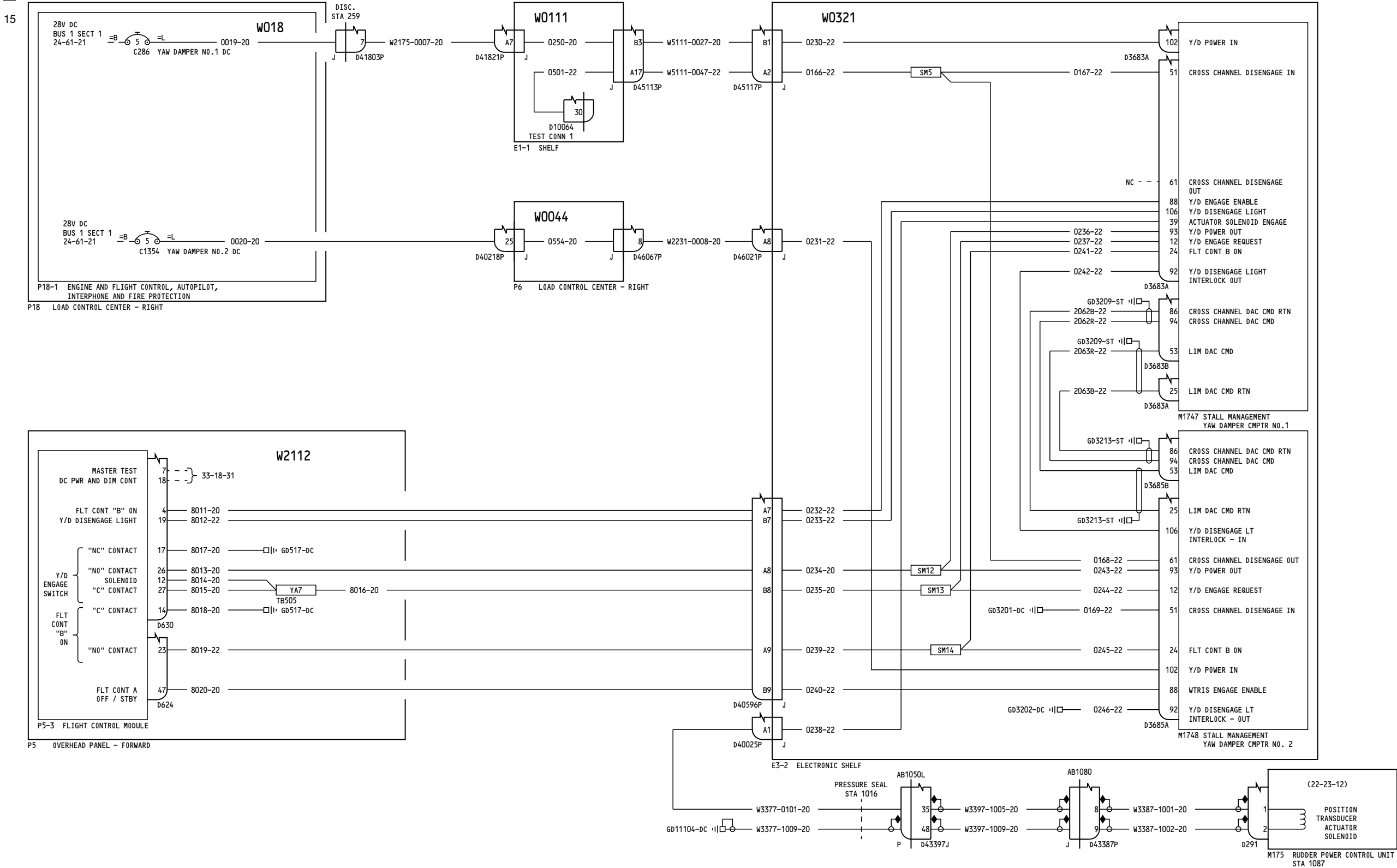
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YT104-YT133

YAW DAMPER ENGAGE INTERLOCKS

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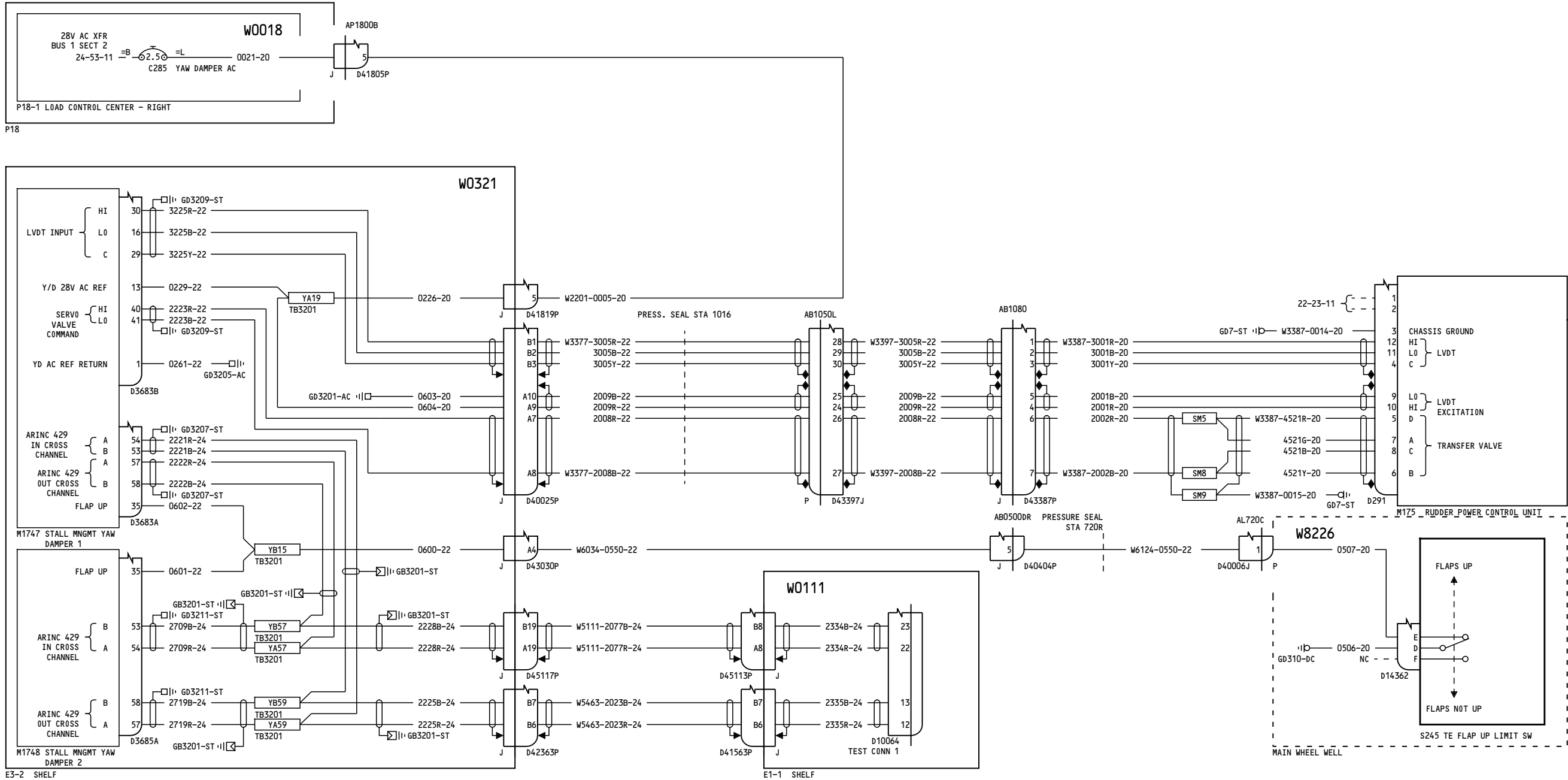
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YAW DAMPER RUDDER CONTROL

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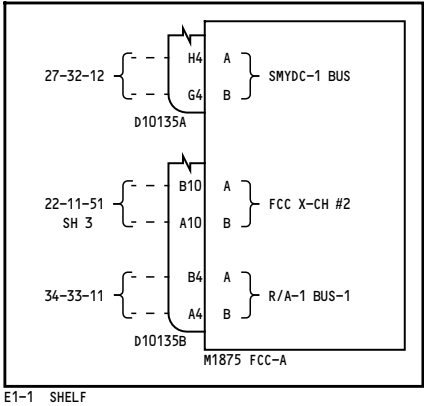
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**AUTOTHROTTLE SYSTEM -
DIGITAL INPUTS FROM
SMYDC'S AND RA'S**

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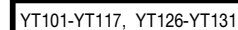
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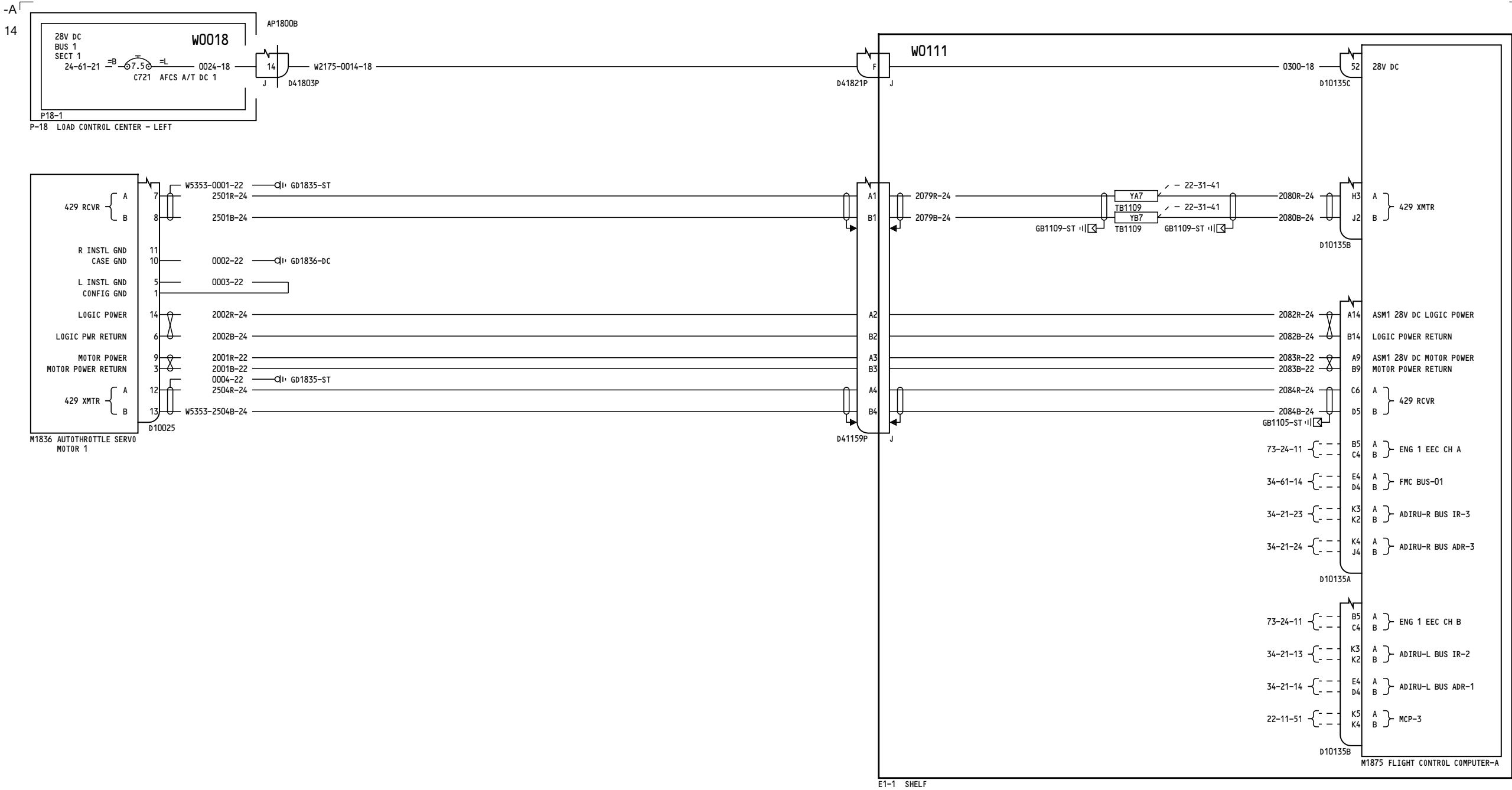
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YT118-YT120, YT132-YT133

AUTOTHROTTLE SYSTEM -
SERVO MOTOR 1

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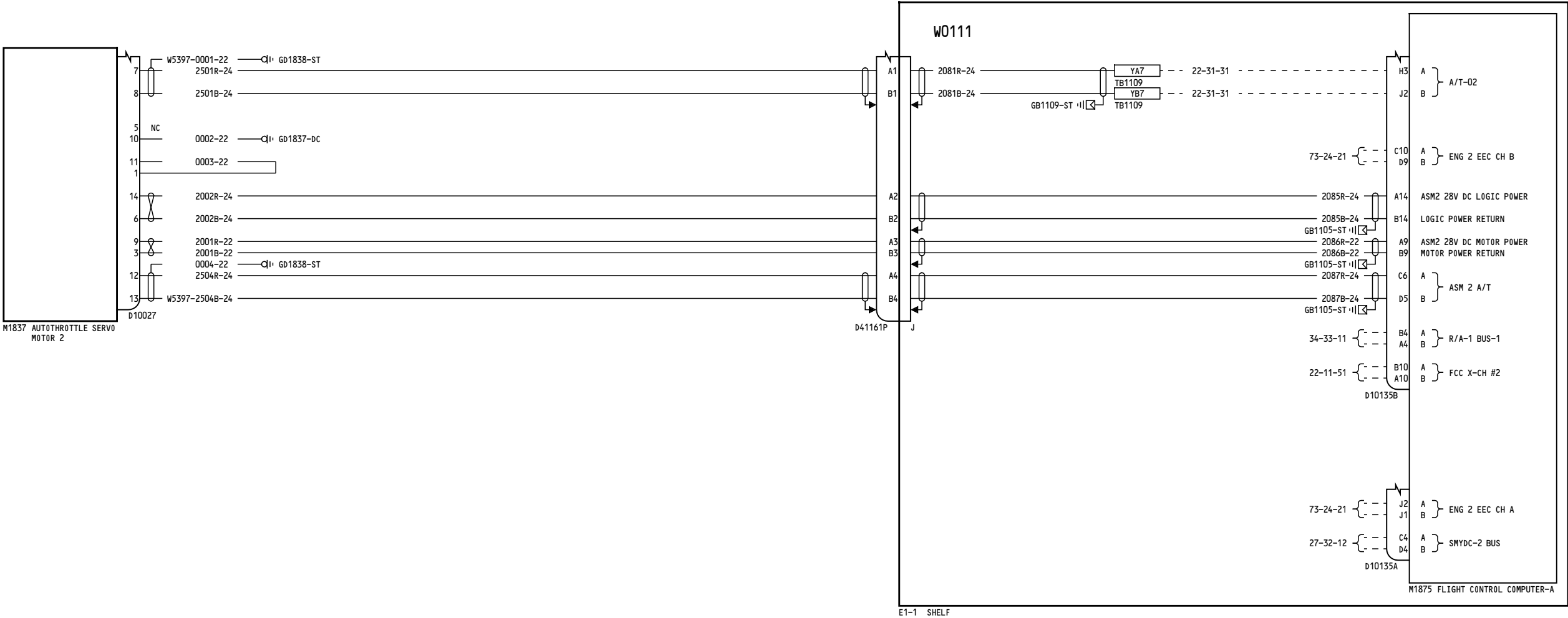
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YT101-YT117, YT126-YT131

**AUTOTHROTTLE SYSTEM -
SERVO MOTOR 2**

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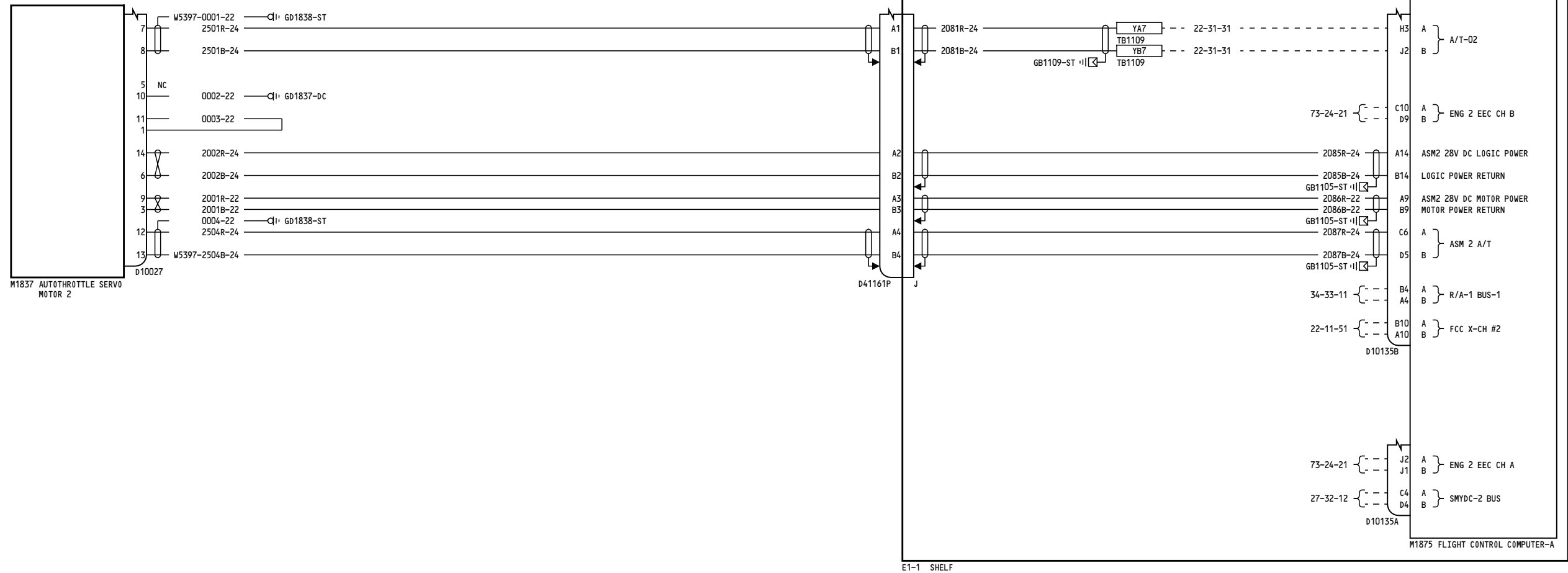
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YT118-YT120, YT132-YT133

**AUTOTHROTTLE SYSTEM -
SERVO MOTOR 2**

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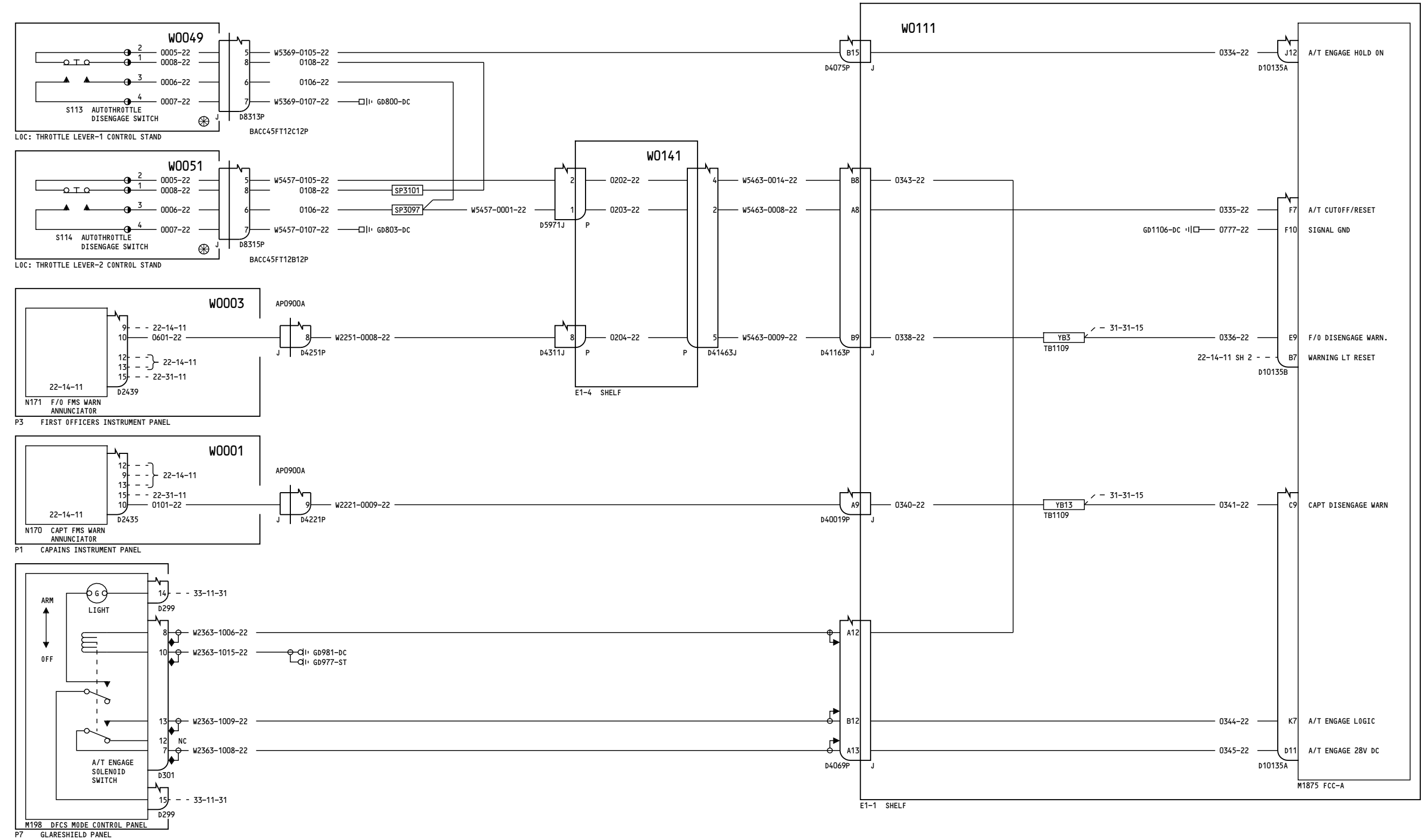
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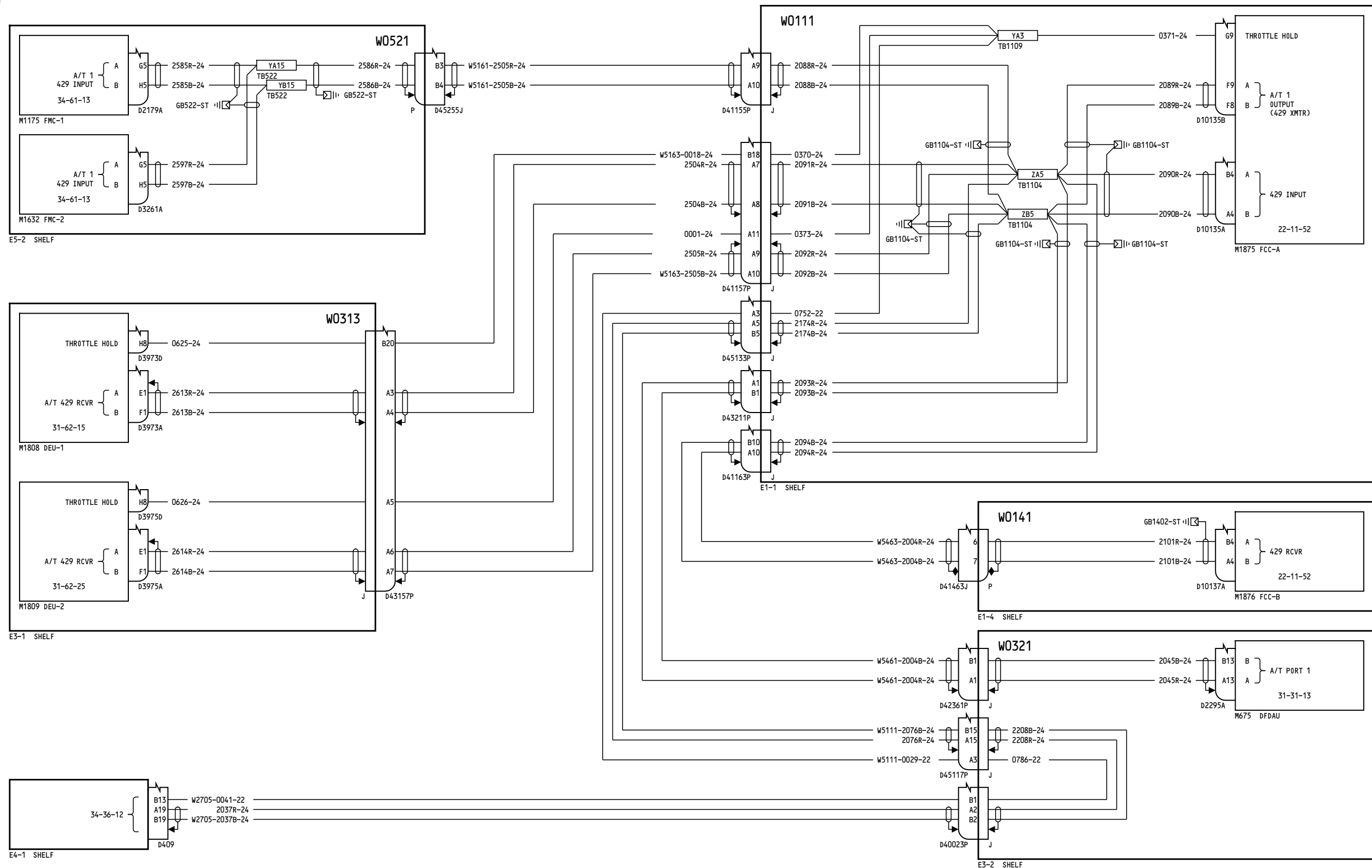
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**AUTOTHROTTLE SYSTEM -
MODE ANNUNCIATION**

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