

CHAPTER
22
AUTOFLIGHT



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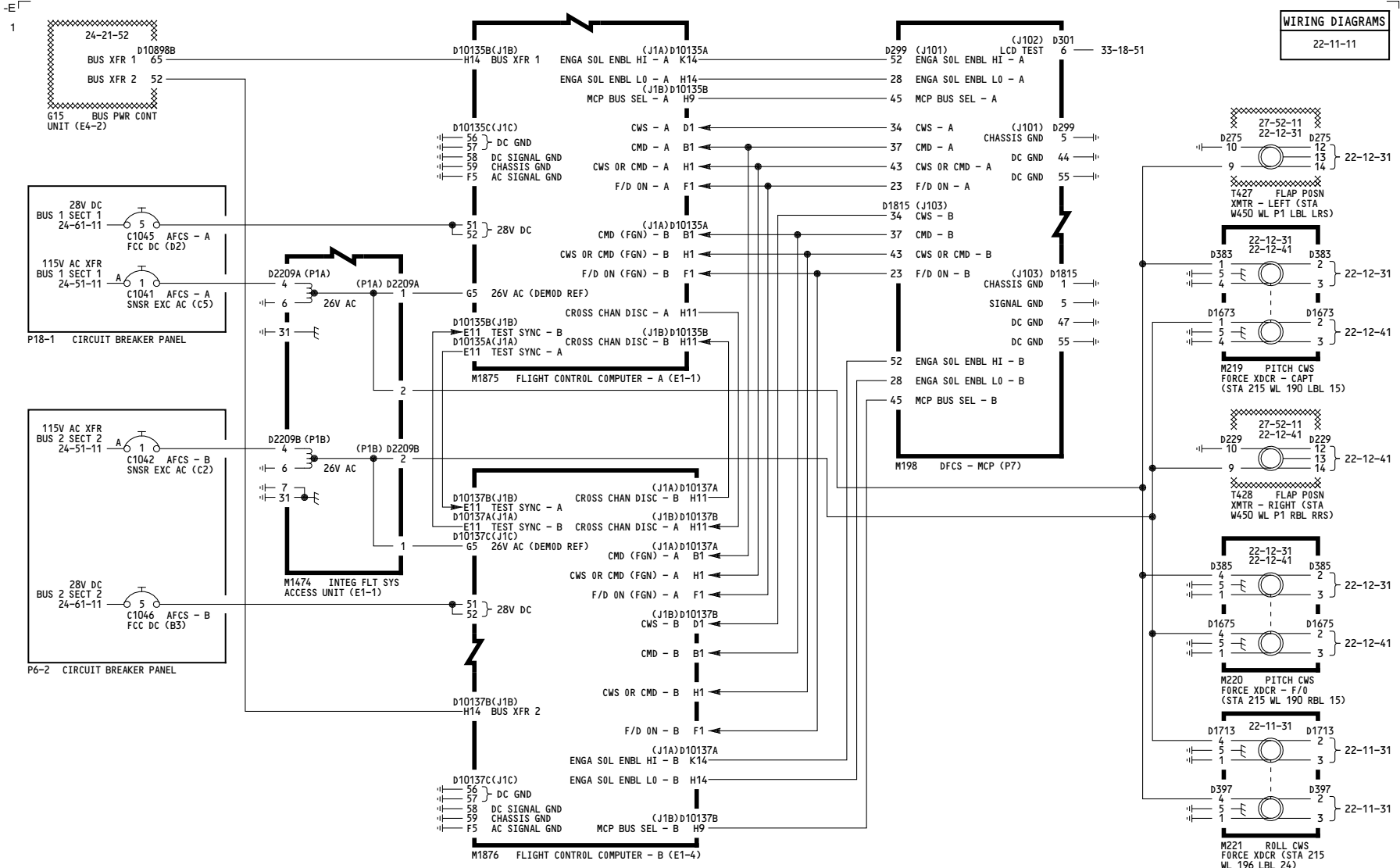
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22-11-18	DFCS INTERSYSTEM SWITCHING - VHF NAV ANTENNAS
22-23-11	YAW DAMPER ENGAGE INTERLOCKS
22-23-12	YAW DAMPER RUDDER CONTROL

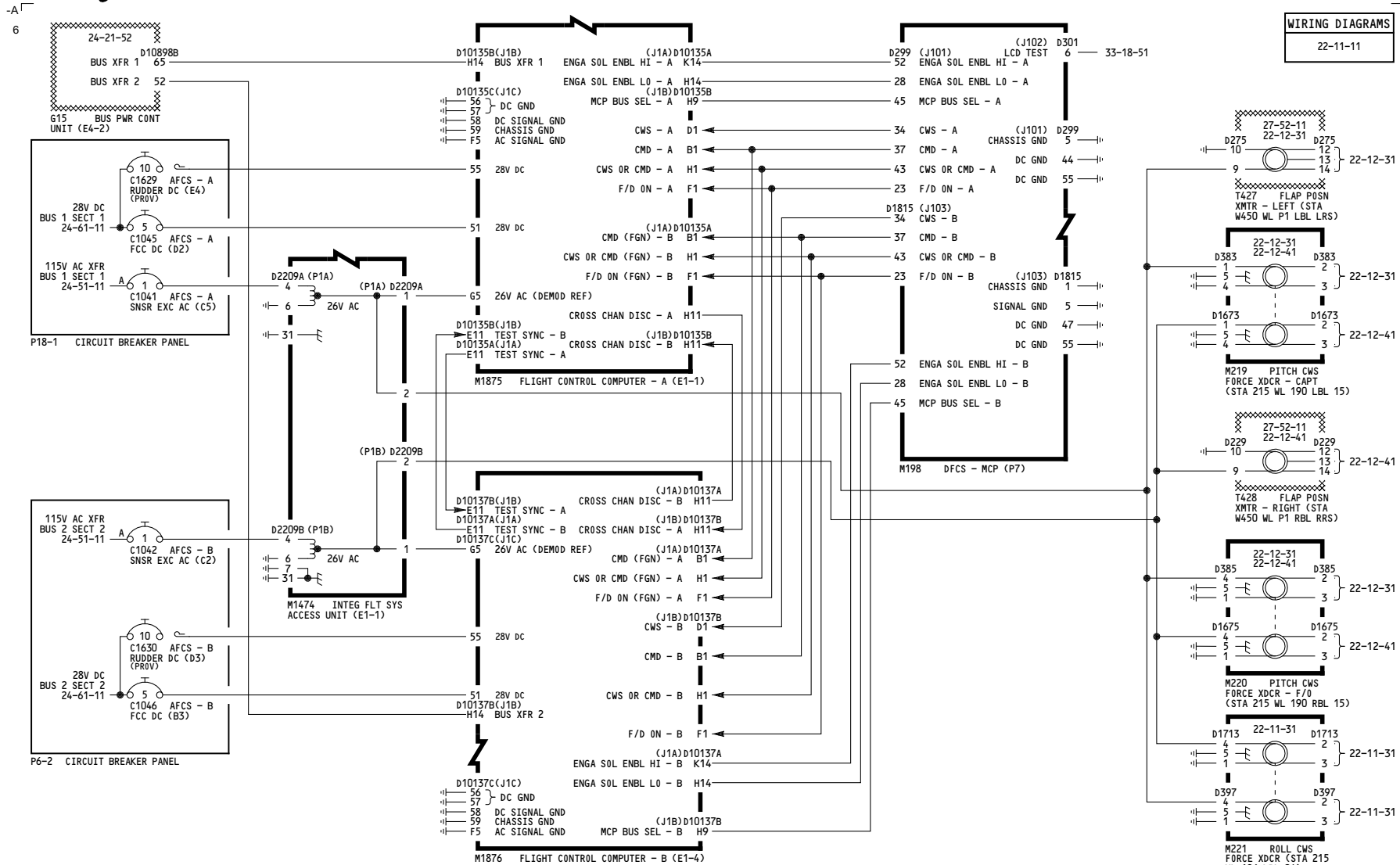
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YC001-YC030	<p>DFCS - A AND B FCC POWER AND 26V AC EXCITATION</p> <p>D280A203</p>
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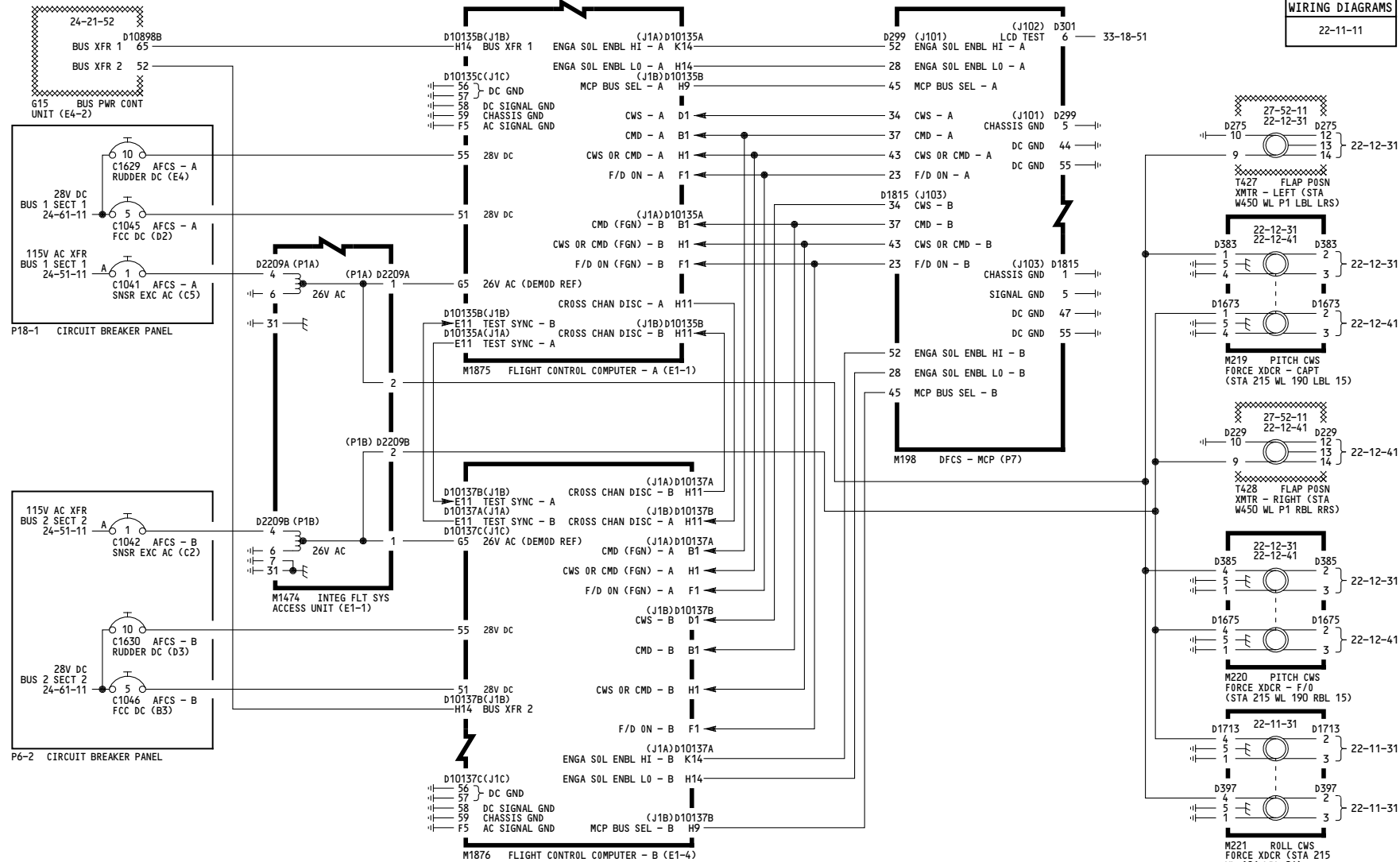
YK901-YK920, YM643-YM646

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

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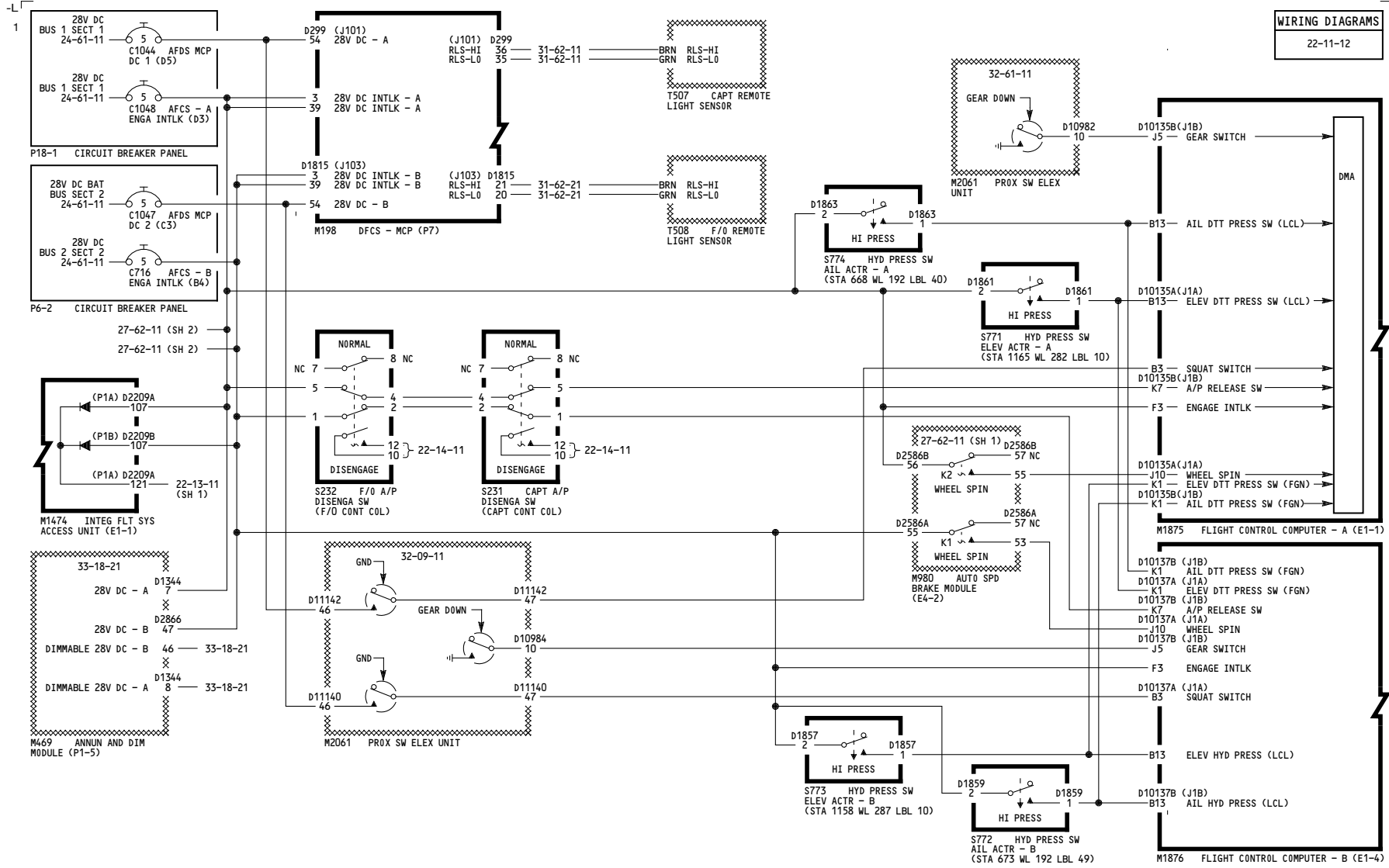


YL401-YL430, YM647-YM670

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

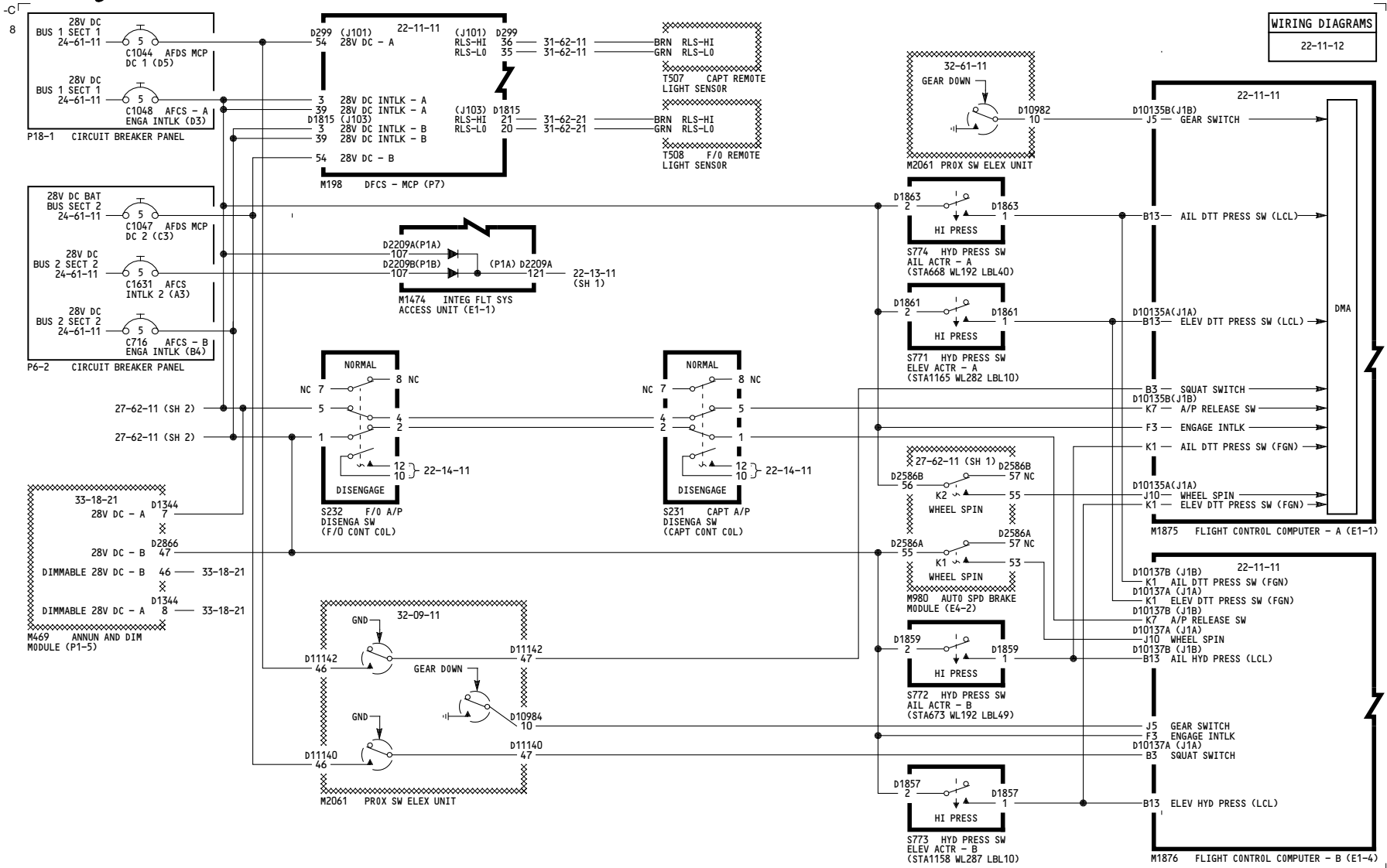
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<p>YC001-YC030</p>	<p>DFCS - A AND B SYSTEM INTERLOCKS</p> <p>D280A203</p>
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YK901-YM670

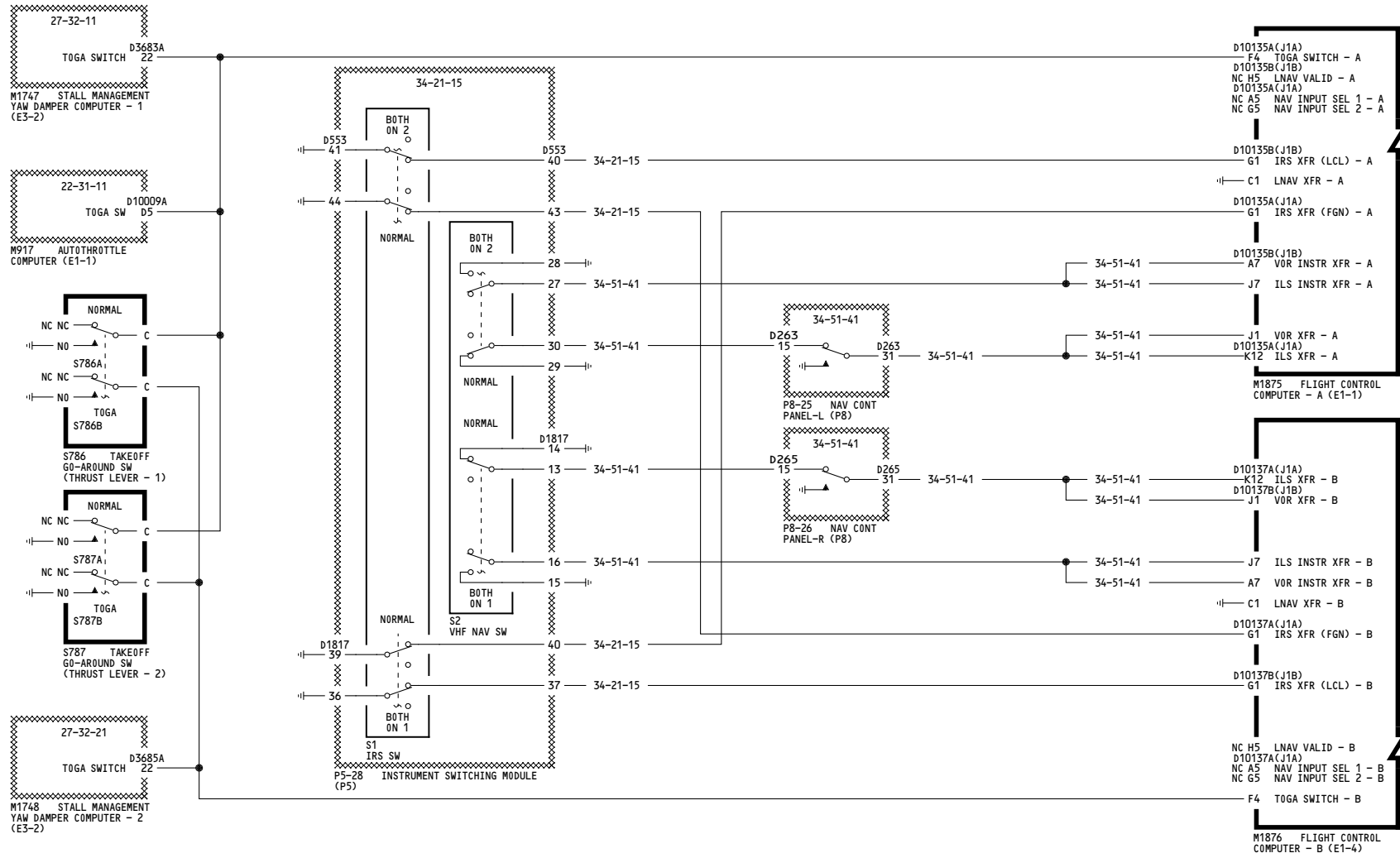
DFCS - A AND B SYSTEM INTERLOCKS

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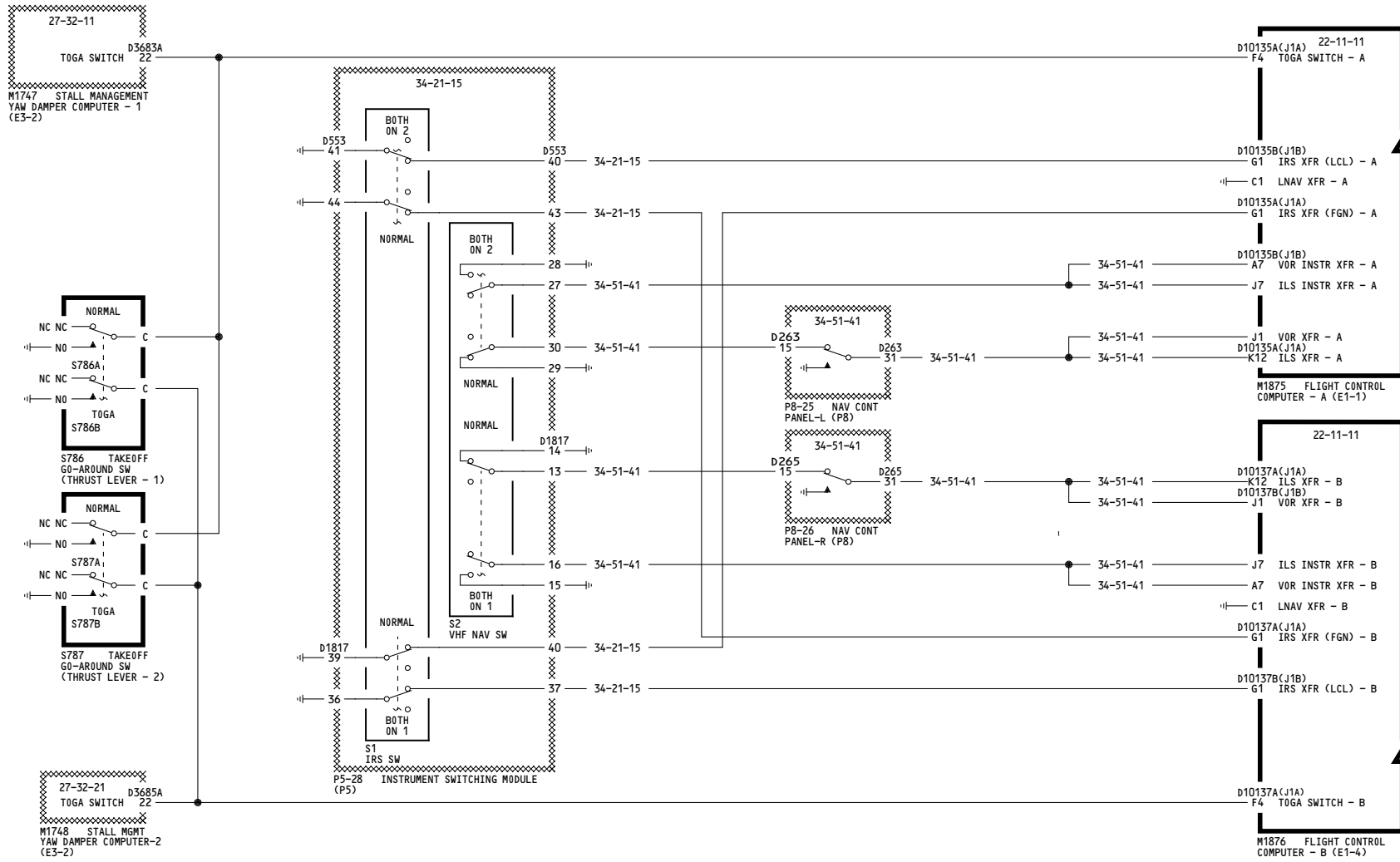
<p>YC001-YC030</p>	<p>DFCS - INTERSYSTEM SWITCHING</p> <p>D280A203</p>
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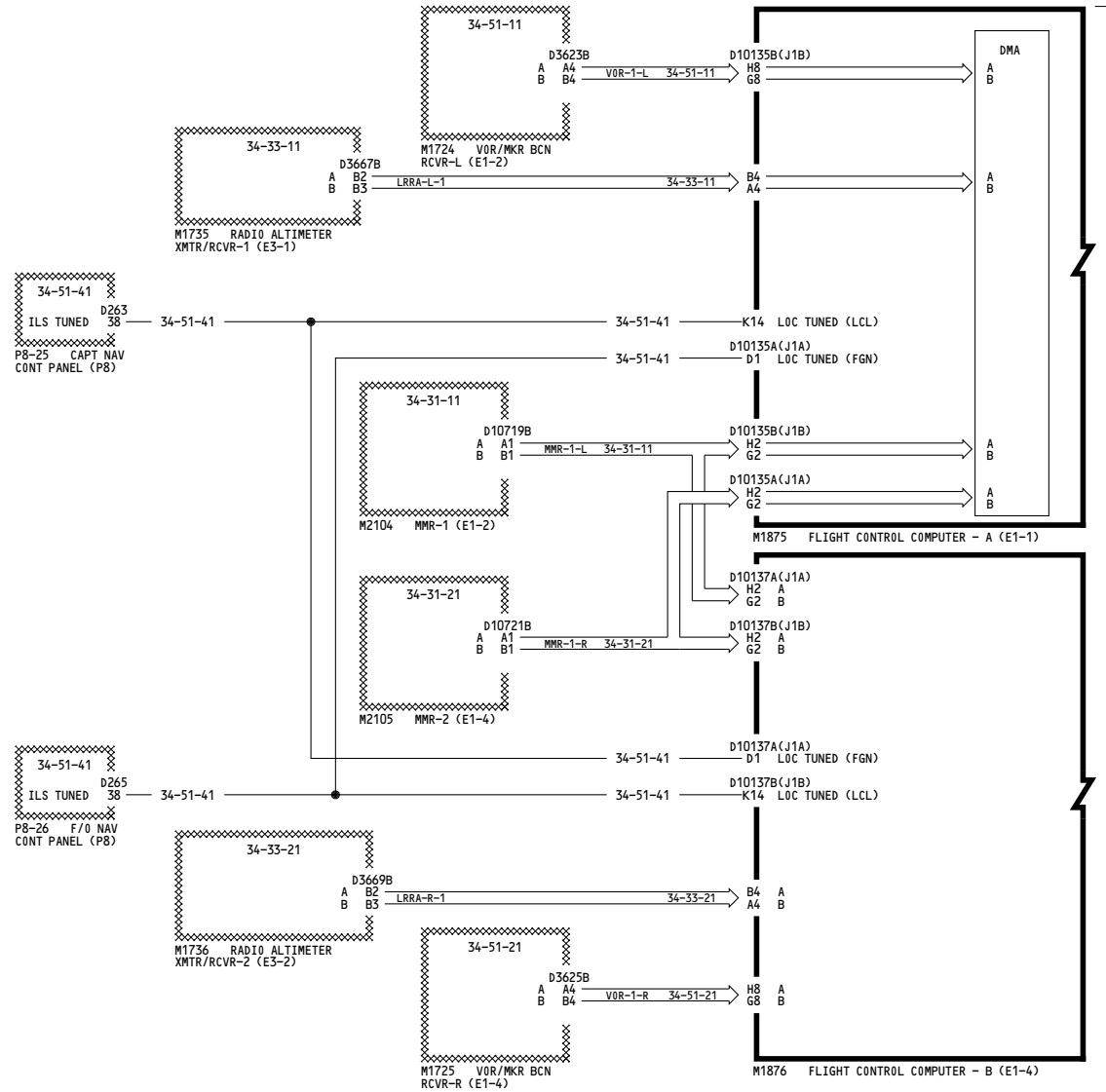
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YK901-YM670	DFCS - INTERSYSTEM SWITCHING
D280A203	

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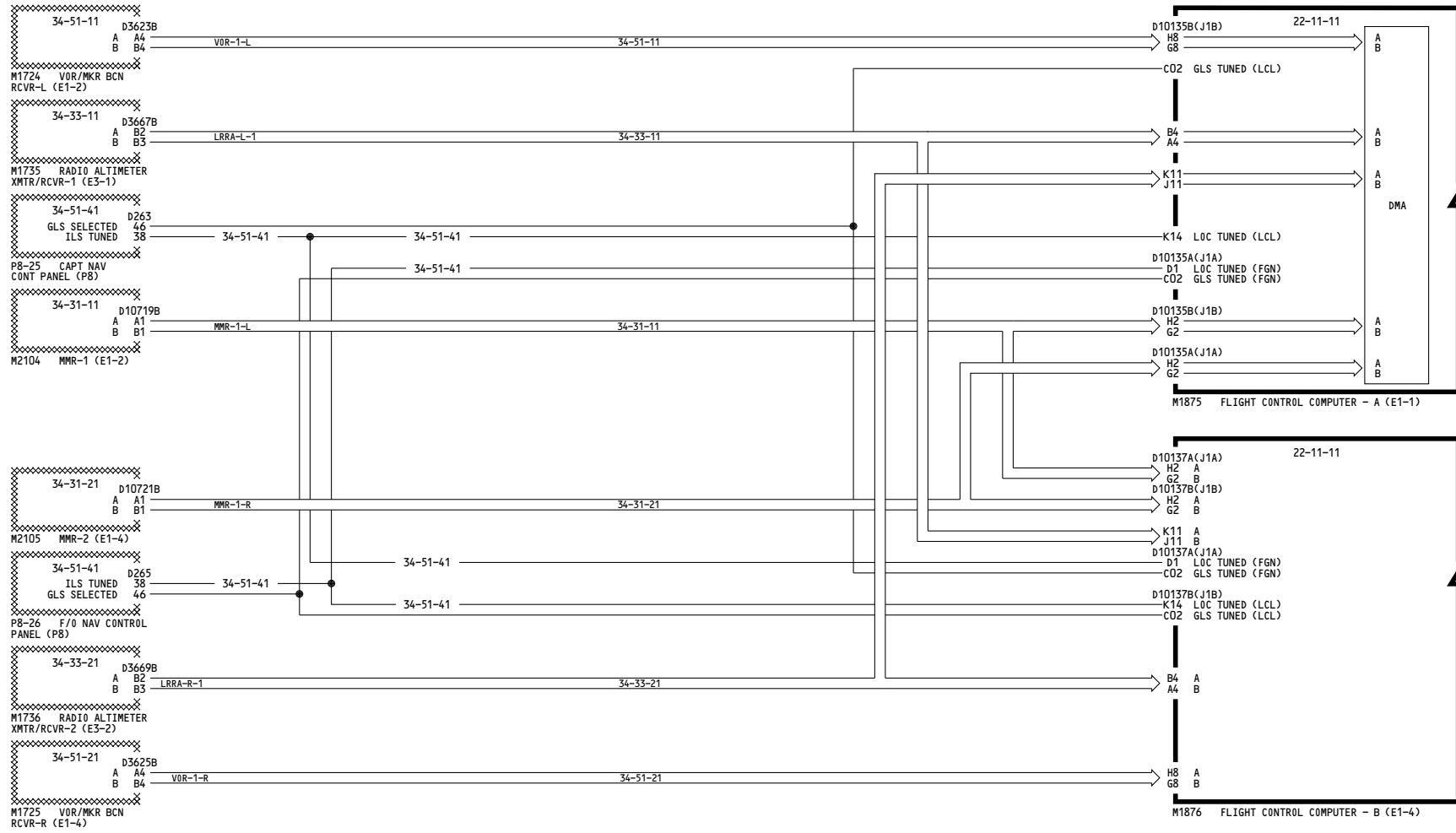
YC001-YC030	<p align="center">DFCS - INTERSYSTEM INTERFACES - VOR, ILS, LRRR</p> <p align="center">D280A203</p>
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YC031-YM670

**DFCS - INTERSYSTEM
INTERFACES - VOR, ILS,
LRRR**

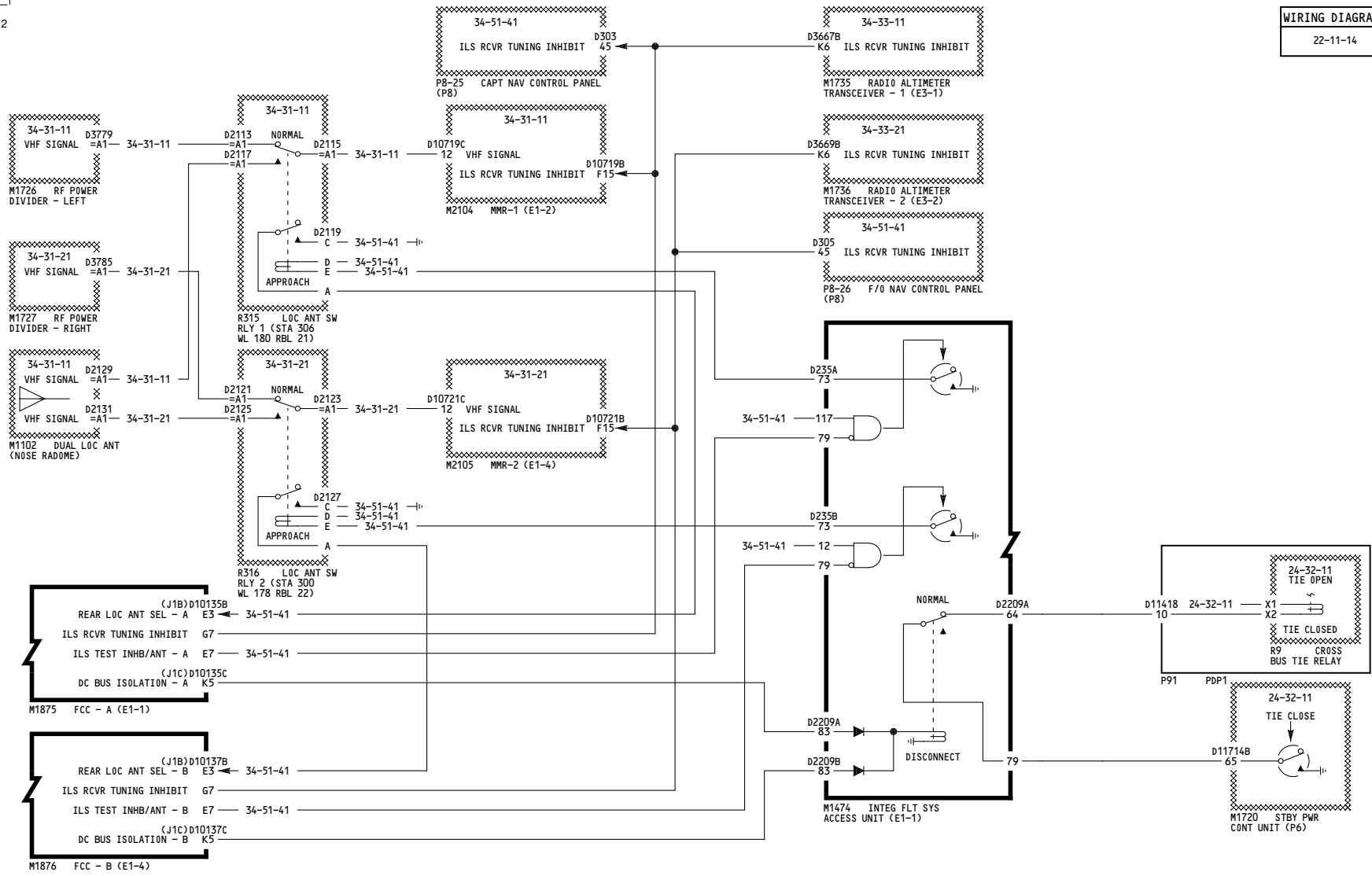
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YC001-YC030

DFCS INTERSYSTEM SWITCHING - VHF NAV ANTENNAS

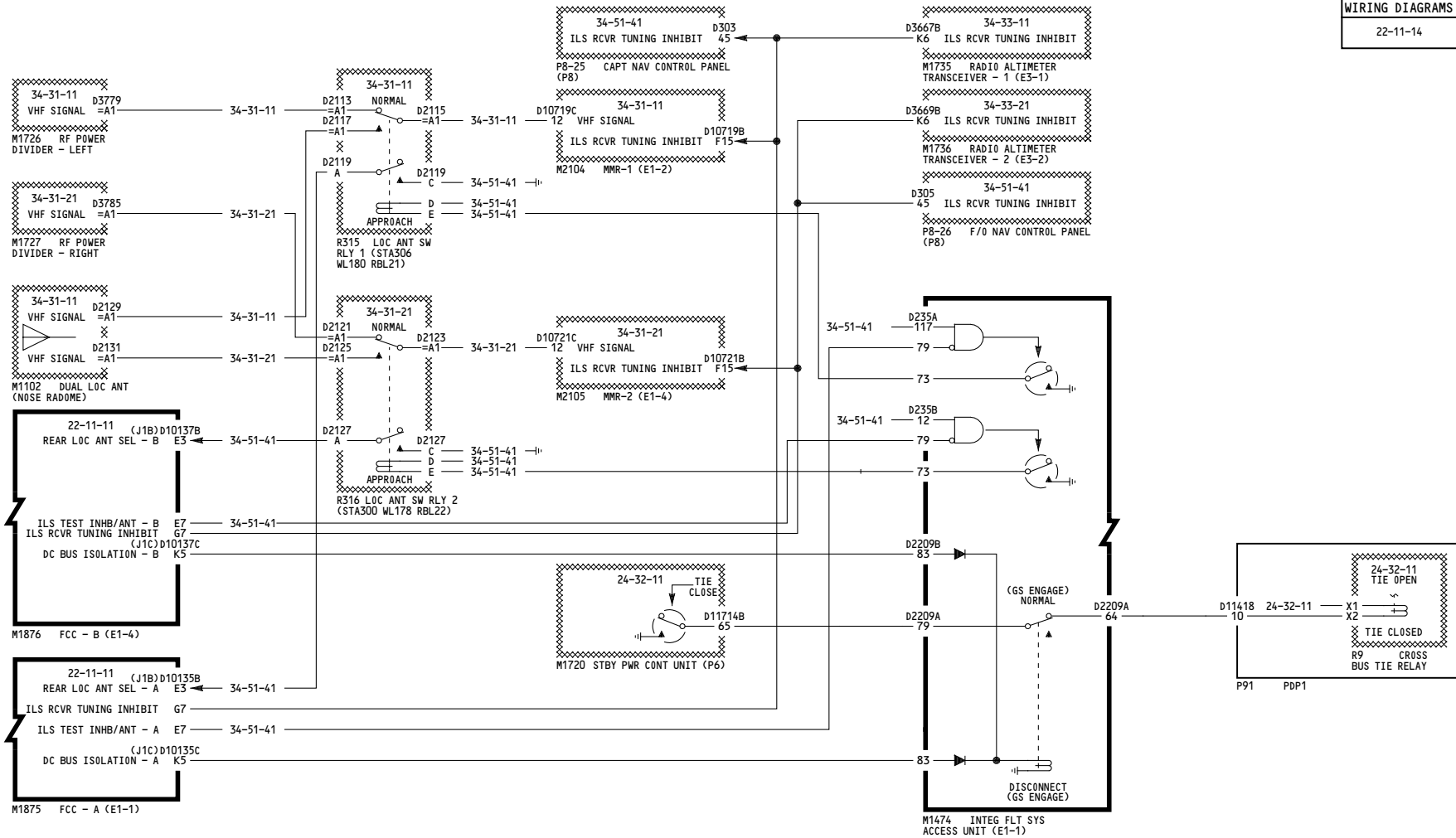
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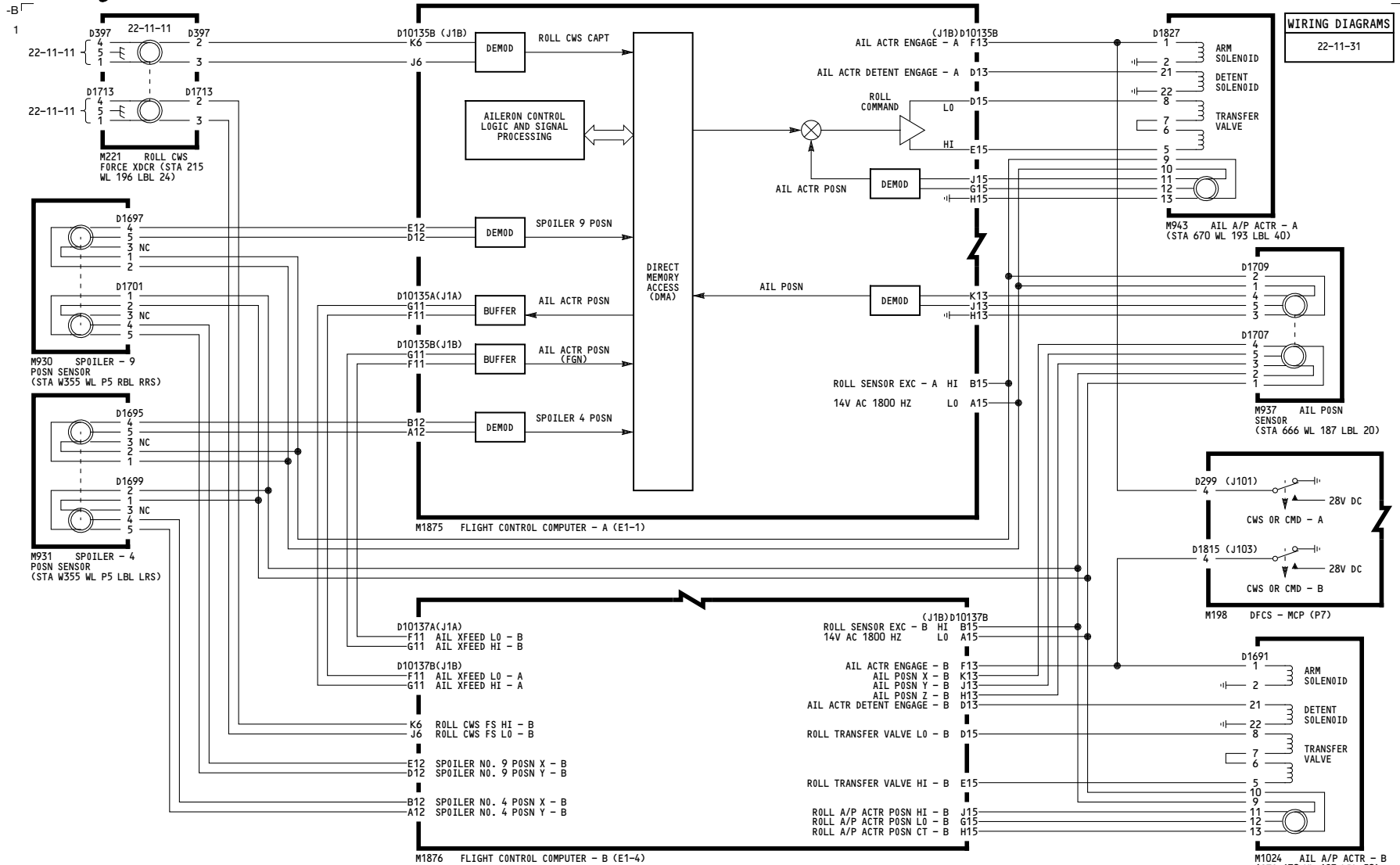
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<p>YK901-YM670</p>	<p>DFCS INTERSYSTEM SWITCHING - VHF NAV ANTENNAS</p> <p>D280A203</p>
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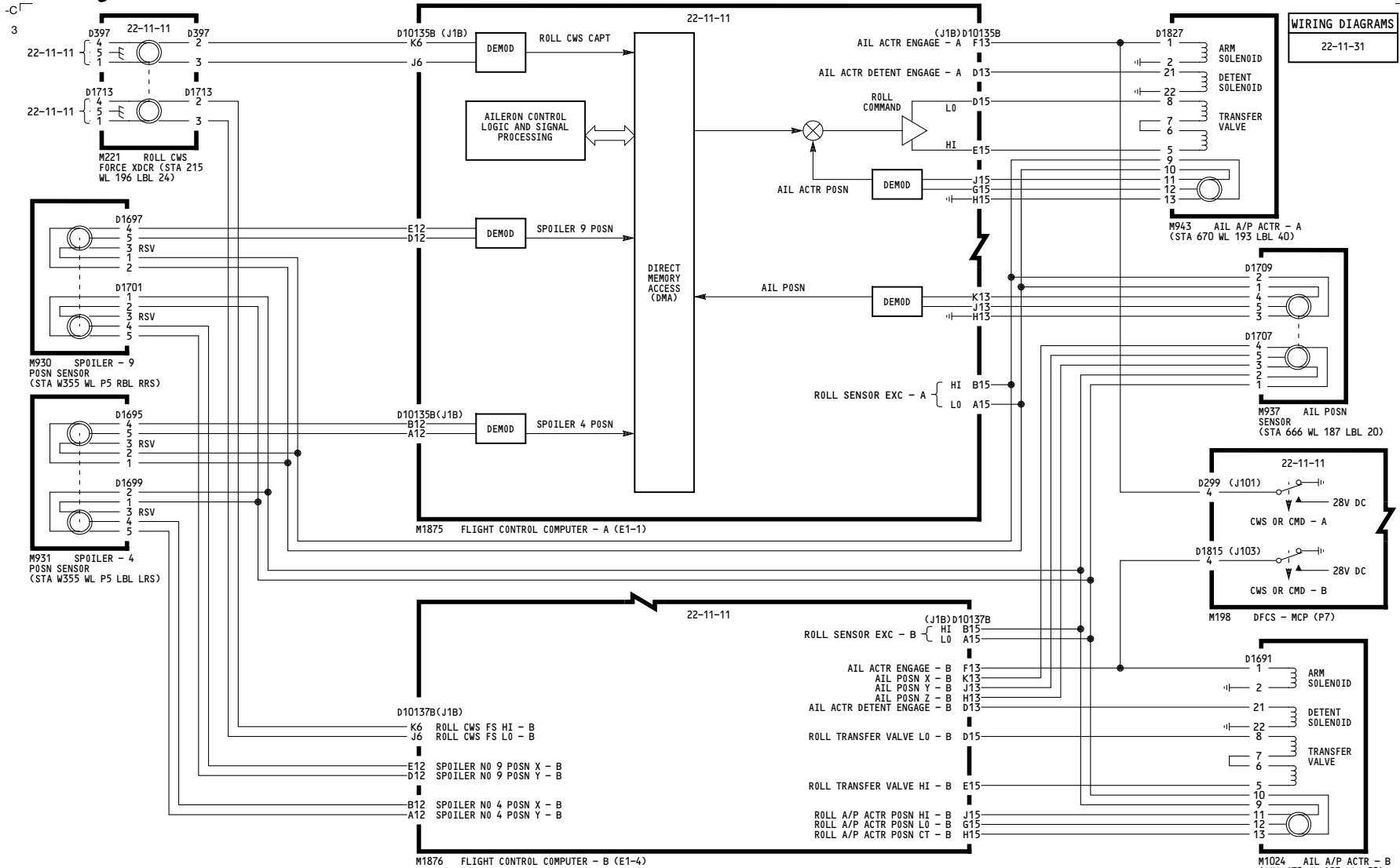


YC001-YC030

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

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YK901-YM670

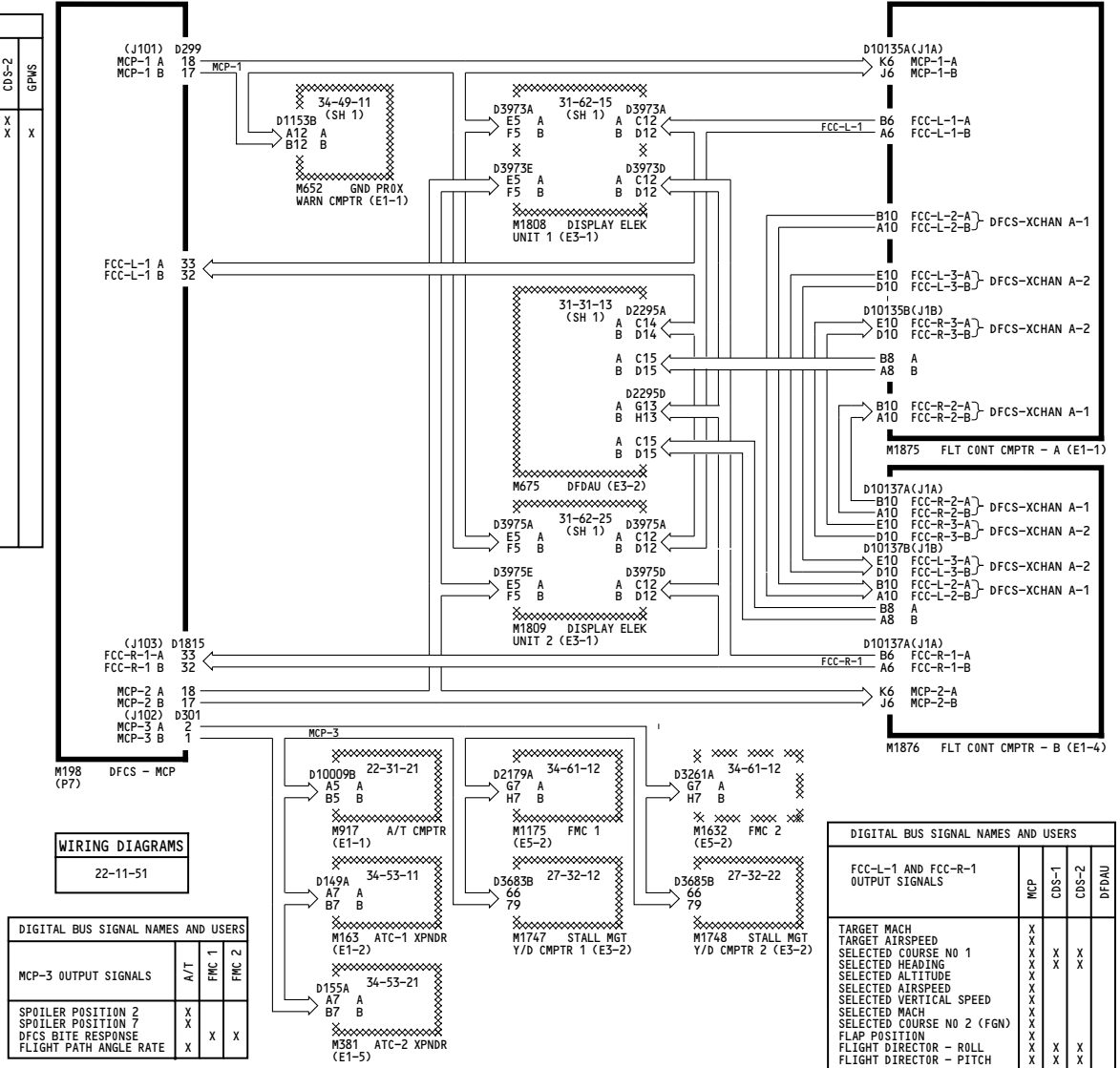
DFCS - A AND B A/P ROLL SENSORS AND ACTUATORS

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22-11-31

MCP-1 AND MCP-2 OUTPUT SIGNALS	FCC-A	FCC-B	CD-1	CD-2	GFMS
SELECTED HEADING	X	X	X	X	X
SELECTED COURSE	X	X	X	X	X
ALTITUDE WINDOW WRAP	X	X	X	X	X
MCP MAINT DISCRETES	X	X	X	X	X
MCP DISCRETES	X	X	X	X	X
FD 1	X	X	X	X	X
FD 2	X	X	X	X	X
LNAV	X	X	X	X	X
VOR/LOC	X	X	X	X	X
HDG SEL	X	X	X	X	X
APPROACH	X	X	X	X	X
SPD	X	X	X	X	X
N1	X	X	X	X	X
ALT HOLD	X	X	X	X	X
LEVEL CHANGE	X	X	X	X	X
VNAV	X	X	X	X	X
VERT SPD	X	X	X	X	X
CHANGE OVER	X	X	X	X	X
SPD INTV	X	X	X	X	X
BANK ANGLE LIMIT 10	X	X	X	X	X
BANK ANGLE LIMIT 15	X	X	X	X	X
BANK ANGLE LIMIT 20	X	X	X	X	X
BANK ANGLE LIMIT 25	X	X	X	X	X
ALT INTV	X	X	X	X	X
MCP DISPLAY CHANGE	X	X	X	X	X
ALTITUDE	X	X	X	X	X
VERTICAL SPEED	X	X	X	X	X
A CMD	X	X	X	X	X
A CWS	X	X	X	X	X
B CMD	X	X	X	X	X
B CWS	X	X	X	X	X
AIRSPD/MACH	X	X	X	X	X
ALTITUDE CHANGE	X	X	X	X	X
MCP IDENTIFICATION	X	X	X	X	X
PUSHBUTTON A/P ENGAGE	X	X	X	X	X
ALTITUDE RESOLVERS	X	X	X	X	X

MCP-3 OUTPUT SIGNALS	A/T	FMC 1	FMC 2
TARGET MACH	X	X	X
TARGET AIRSPEED	X	X	X
LOCAL SELECTED COURSE	X	X	X
SELECTED ALTITUDE	X	X	X
FOREIGN SELECTED COURSE	X	X	X
FLAP POSITION	X	X	X
AFDS DISCRETE WORD 2	X	X	X
FLARE ENGAGE	X	X	X
G/S ENGAGE	X	X	X
FLARE ARM	X	X	X
AFDS DISCRETE WORD 1	X	X	X
LNAV	X	X	X
VNAV	X	X	X
IAS	X	X	X
AFDS DISCRETE WORD 3	X	X	X
TOGA SW	X	X	X
N1 LIMIT MODE COMMAND	X	X	X
LOC ENGAGED	X	X	X
ALT ACQ	X	X	X
ACTIVE ALT REF	X	X	X
BARO CORRECTED ALT 2	X	X	X
GAMMA DOT ENABLE	X	X	X
ALTITUDE HOLD	X	X	X
LOC ARM	X	X	X
MCP V/S ACTIVE	X	X	X
A/T F/S ENABLE	X	X	X
IAS/MACH	X	X	X
LNAV PB	X	X	X
VNAV PB	X	X	X
A/T MODE ARM	X	X	X
A/T MODE MCP SPEED	X	X	X
A/T MODE FMC SPEED	X	X	X
A/T MODE N1	X	X	X
A/T MODE RETARD	X	X	X



WIRING DIAGRAMS
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MCP-3 OUTPUT SIGNALS	A/T	FMC 1	FMC 2
SPOILER POSITION 2	X	X	X
SPOILER POSITION 7	X	X	X
DFCS BITE RESPONSE	X	X	X
FLIGHT PATH ANGLE RATE	X	X	X

FCC-L-1 AND FCC-R-1 OUTPUT SIGNALS	MCP	CD-1	CD-2	DFDAU
AFDS DISCRETE WORD 2	X	X	X	X
FLARE ENGAGE	X	X	X	X
G/S ENGAGE	X	X	X	X
VOR/LOC ENGAGE	X	X	X	X
HDG SEL ALT ACQ	X	X	X	X
ALT HOLD	X	X	X	X
V/S ENGAGE	X	X	X	X
TO/GA	X	X	X	X
SINGLE CH	X	X	X	X
A/P OFF	X	X	X	X
CWS PITCH	X	X	X	X
CWS ROLL	X	X	X	X
FLARE ARM	X	X	X	X
G/S ARM	X	X	X	X
VOR/LOC ARM	X	X	X	X
V/S ARM	X	X	X	X
L NAV ENGAGE	X	X	X	X
MCP SPD	X	X	X	X
AFDS DISCRETE WORD 4	X	X	X	X
V NAV PATH	X	X	X	X
V NAV SPD	X	X	X	X
F/D A ON	X	X	X	X
F/D B ON	X	X	X	X
CMD A	X	X	X	X
CMD B	X	X	X	X
CWS A	X	X	X	X
CWS B	X	X	X	X
ILS DEV WARN	X	X	X	X
A/T SPEED WARN	X	X	X	X
LOC DEV WARN	X	X	X	X
G/S DEV WARN	X	X	X	X
L CL LIMITED MASTER	X	X	X	X
SPD/ALT OPTION	X	X	X	X
TEST DISPLAY CMD	X	X	X	X
ALT INTV	X	X	X	X
SPEED INTV	X	X	X	X
AFDS DISCRETE WORD 1	X	X	X	X
A MASTER LT	X	X	X	X
B MASTER LT	X	X	X	X
LNAV	X	X	X	X
VOR/LOC	X	X	X	X
HDG SEL	X	X	X	X
APPROACH	X	X	X	X
SPD	X	X	X	X
N1	X	X	X	X
ALT HOLD	X	X	X	X
LVL CHG	X	X	X	X
VNAV	X	X	X	X
VERT SPD	X	X	X	X
IAS	X	X	X	X
OVERSPEED FLAG	X	X	X	X
UNDERSPEED FLAG	X	X	X	X
CWS WARN	X	X	X	X
BITE WARN	X	X	X	X
AFDS DISCRETE WORD 3	X	X	X	X
TOGA SW	X	X	X	X
N1 LIMIT MODE COMMAND	X	X	X	X
LOC ENGAGED	X	X	X	X
ALT ACQ	X	X	X	X
ACTIVE ALT REF	X	X	X	X
BARO CORRECTED ALT 2	X	X	X	X
GAMMA DOT ENABLE	X	X	X	X
ALTITUDE HOLD	X	X	X	X
LOC ARM	X	X	X	X
MCP V/S ACTIVE	X	X	X	X
A/T F/S ENABLE	X	X	X	X
IAS/MACH	X	X	X	X
LNAV PB	X	X	X	X
VNAV PB	X	X	X	X
A/T MODE ARM	X	X	X	X
A/T MODE MCP SPEED	X	X	X	X
A/T MODE FMC SPEED	X	X	X	X
A/T MODE N1	X	X	X	X
A/T MODE RETARD	X	X	X	X
A/S BUG DRIVE	X	X	X	X
SPOILER POSITION 2	X	X	X	X
SPOILER POSITION 7	X	X	X	X
DFCS BITE RESPONSE	X	X	X	X
DFCS BITE RESPONSE	X	X	X	X
FLIGHT PATH ANGLE RATE	X	X	X	X

FCC-L-1 AND FCC-R-1 OUTPUT SIGNALS	MCP	CD-1	CD-2	DFDAU
TARGET MACH	X	X	X	X
TARGET AIRSPEED	X	X	X	X
SELECTED COURSE NO 1	X	X	X	X
SELECTED HEADING	X	X	X	X
SELECTED ALTITUDE	X	X	X	X
SELECTED AIRSPEED	X	X	X	X
SELECTED VERTICAL SPEED	X	X	X	X
SELECTED MACH	X	X	X	X
SELECTED COURSE NO 2 (FGN)	X	X	X	X
FLAP POSITION	X	X	X	X
FLIGHT DIRECTOR - ROLL	X	X	X	X
FLIGHT DIRECTOR - PITCH	X	X	X	X

YC001-YC030

DFCS - DIGITAL BUS INTERFACES - OUTPUT

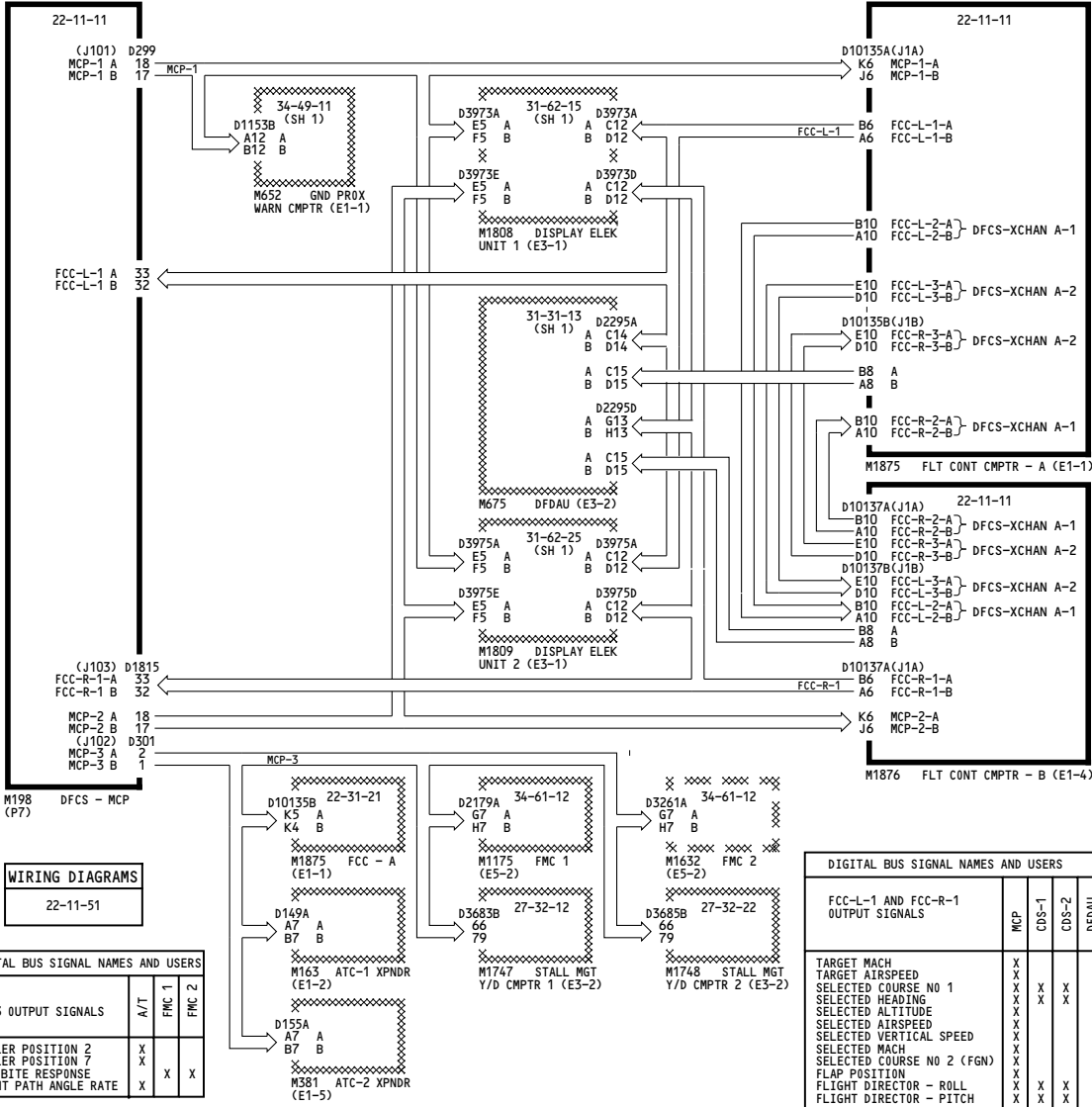
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DIGITAL BUS SIGNAL NAMES AND USERS					
MCP-1 AND MCP-2 OUTPUT SIGNALS	FCC-A	FCC-B	CD-1	CD-2	DFDAU
SELECTED HEADING	X	X	X	X	X
SELECTED COURSE	X	X	X	X	X
ALTITUDE WINDOW WRAP	X	X	X	X	X
MCP MAINT DISCRETES	X	X	X	X	X
MCP DISCRETES	X	X	X	X	X
FD 1	X	X	X	X	X
FD 2	X	X	X	X	X
LNAV	X	X	X	X	X
VOR/LOC	X	X	X	X	X
HDG SEL	X	X	X	X	X
APPROACH	X	X	X	X	X
SPD	X	X	X	X	X
N1	X	X	X	X	X
ALT HOLD	X	X	X	X	X
LEVEL CHANGE	X	X	X	X	X
VNAV	X	X	X	X	X
VERT SPD	X	X	X	X	X
CHANGE OVER	X	X	X	X	X
SPD INTV	X	X	X	X	X
BANK ANGLE LIMIT 10	X	X	X	X	X
BANK ANGLE LIMIT 15	X	X	X	X	X
BANK ANGLE LIMIT 20	X	X	X	X	X
BANK ANGLE LIMIT 25	X	X	X	X	X
ALT INTV	X	X	X	X	X
MCP DISPLAY CHANGE	X	X	X	X	X
ALTITUDE	X	X	X	X	X
VERTICAL SPEED	X	X	X	X	X
A CMD	X	X	X	X	X
A CWS	X	X	X	X	X
B CMD	X	X	X	X	X
B CWS	X	X	X	X	X
AIRSPD/MACH	X	X	X	X	X
ALTITUDE CHANGE	X	X	X	X	X
MCP IDENTIFICATION	X	X	X	X	X
PUSHBUTTON A/P ENGAGE	X	X	X	X	X
ALTITUDE RESOLVERS	X	X	X	X	X



DIGITAL BUS SIGNAL NAMES AND USERS					
FCC-L-1 AND FCC-R-1 OUTPUT SIGNALS	MCP	CD-1	CD-2	DFDAU	
AFDS DISCRETE WORD 2	X	X	X	X	
FLARE ENGAGE	X	X	X	X	
G/S ENGAGE	X	X	X	X	
VOR/LOC ENGAGE	X	X	X	X	
HDG SEL ALT ACQ	X	X	X	X	
ALT HOLD	X	X	X	X	
V/S ENGAGE	X	X	X	X	
T/0 GA	X	X	X	X	
SINGLE CH	X	X	X	X	
A/P OFF	X	X	X	X	
CWS PITCH	X	X	X	X	
CWS ROLL	X	X	X	X	
FLARE ARM	X	X	X	X	
G/S ARM	X	X	X	X	
VOR/LOC ARM	X	X	X	X	
V/S ARM	X	X	X	X	
L NAV ENGAGE	X	X	X	X	
MCP SPD	X	X	X	X	
AFDS DISCRETE WORD 4	X	X	X	X	
V NAV PATH	X	X	X	X	
V NAV SPD	X	X	X	X	
F/D A ON	X	X	X	X	
F/D B ON	X	X	X	X	
CMD A	X	X	X	X	
CMD B	X	X	X	X	
CWS A	X	X	X	X	
CWS B	X	X	X	X	
VISUAL ALT ALERT	X	X	X	X	
ILS DEV WARN	X	X	X	X	
A/T SPEED WARN	X	X	X	X	
LOC DEV WARN	X	X	X	X	
G/S DEV WARN	X	X	X	X	
CL LIMITED MASTER	X	X	X	X	
SPD/ALT OPTION	X	X	X	X	
TEST DISPLAY CMD	X	X	X	X	
ALT INTV	X	X	X	X	
SPEED INTV	X	X	X	X	
AFDS DISCRETE WORD 1	X	X	X	X	
A MASTER LT	X	X	X	X	
B MASTER LT	X	X	X	X	
LNAV	X	X	X	X	
VOR/LOC	X	X	X	X	
HDG SEL	X	X	X	X	
APPROACH	X	X	X	X	
SPD	X	X	X	X	
N1	X	X	X	X	
ALT HOLD	X	X	X	X	
LVL CHG	X	X	X	X	
VNAV	X	X	X	X	
VERT SPD	X	X	X	X	
IAS	X	X	X	X	
OVERSPEED FLAG	X	X	X	X	
UNDERSPEED FLAG	X	X	X	X	
CWS WARN	X	X	X	X	
BITE WARN	X	X	X	X	
AFDS DISCRETE WORD 3	X	X	X	X	
TOGA SW	X	X	X	X	
N1 LIMIT MODE COMMAND	X	X	X	X	
LOC ENGAGED	X	X	X	X	
ALT ACQ	X	X	X	X	
ACTIVE ALT REF	X	X	X	X	
BARO CORRECTED ALT 2	X	X	X	X	
GAMMA DOT ENABLE	X	X	X	X	
ALTITUDE HOLD	X	X	X	X	
LDC ARM	X	X	X	X	
MCP V/S ACTIVE	X	X	X	X	
A/T F/S ENABLE	X	X	X	X	
IAS/MACH	X	X	X	X	
LNAV PB	X	X	X	X	
VNAV PB	X	X	X	X	
A/T MODE ARM	X	X	X	X	
A/T MODE MCP SPEED	X	X	X	X	
A/T MODE FMC SPEED	X	X	X	X	
A/T MODE N1	X	X	X	X	
A/T MODE RETARD	X	X	X	X	
A/S BUG DRIVE	X	X	X	X	
SPOILER POSITION 2	X	X	X	X	
SPOILER POSITION 7	X	X	X	X	
DFCS BITE RESPONSE	X	X	X	X	
FLIGHT DIRECTOR - ROLL	X	X	X	X	
FLIGHT DIRECTOR - PITCH	X	X	X	X	

DIGITAL BUS SIGNAL NAMES AND USERS			
MCP-3 OUTPUT SIGNALS	A/T	FMC 1	FMC 2
TARGET MACH	X	X	X
TARGET AIRSPEED	X	X	X
LOCAL SELECTED COURSE	X	X	X
SELECTED ALTITUDE	X	X	X
FOREIGN SELECTED COURSE	X	X	X
FLAP POSITION	X	X	X
AFDS DISCRETE WORD 2	X	X	X
G/S ENGAGE	X	X	X
FLARE ARM	X	X	X
AFDS DISCRETE WORD 1	X	X	X
LNAV	X	X	X
VNAV	X	X	X
IAS	X	X	X
AFDS DISCRETE WORD 3	X	X	X
TOGA SW	X	X	X
N1 LIMIT MODE COMMAND	X	X	X
LOC ENGAGED	X	X	X
ALT ACQ	X	X	X
ACTIVE ALT REF	X	X	X
BARO CORRECTED ALT 2	X	X	X
GAMMA DOT ENABLE	X	X	X
ALTITUDE HOLD	X	X	X
LDC ARM	X	X	X
MCP V/S ACTIVE	X	X	X
A/T F/S ENABLE	X	X	X
IAS/MACH	X	X	X
LNAV PB	X	X	X
VNAV PB	X	X	X
A/T MODE ARM	X	X	X
A/T MODE MCP SPEED	X	X	X
A/T MODE FMC SPEED	X	X	X
A/T MODE N1	X	X	X
A/T MODE RETARD	X	X	X

DIGITAL BUS SIGNAL NAMES AND USERS			
MCP-3 OUTPUT SIGNALS	A/T	FMC 1	FMC 2
SPOILER POSITION 2	X	X	X
SPOILER POSITION 7	X	X	X
DFCS BITE RESPONSE	X	X	X
FLIGHT PATH ANGLE RATE	X	X	X

DIGITAL BUS SIGNAL NAMES AND USERS				
FCC-L-1 AND FCC-R-1 OUTPUT SIGNALS	MCP	CD-1	CD-2	DFDAU
TARGET MACH	X	X	X	X
TARGET AIRSPEED	X	X	X	X
SELECTED COURSE NO 1	X	X	X	X
SELECTED HEADING	X	X	X	X
SELECTED ALTITUDE	X	X	X	X
SELECTED AIRSPEED	X	X	X	X
SELECTED VERTICAL SPEED	X	X	X	X
SELECTED MACH	X	X	X	X
SELECTED COURSE NO 2 (FGN)	X	X	X	X
FLAP POSITION	X	X	X	X
FLIGHT DIRECTOR - ROLL	X	X	X	X
FLIGHT DIRECTOR - PITCH	X	X	X	X

YK901-YK906

DFCS - DIGITAL BUS INTERFACES - OUTPUT

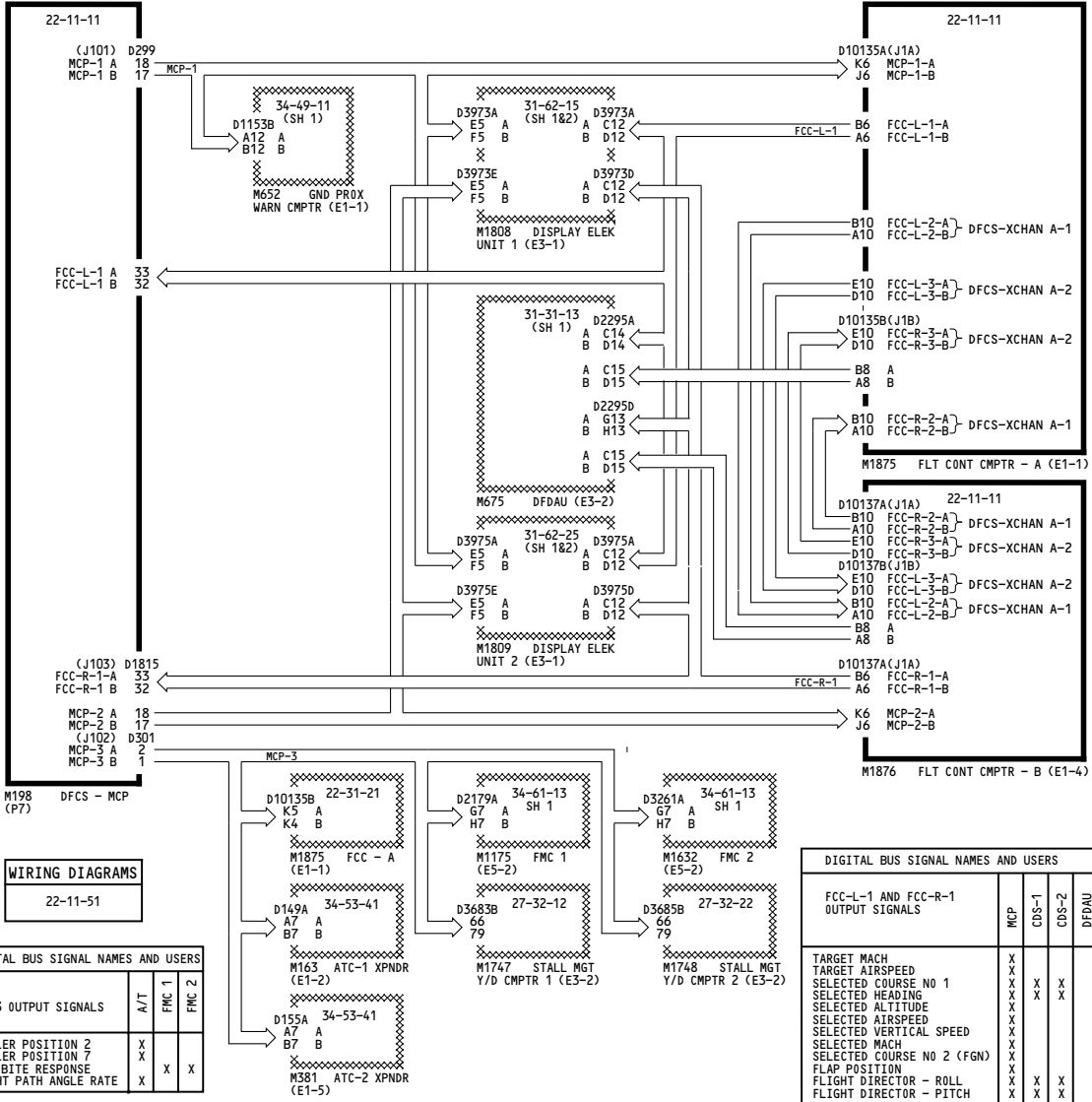
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DIGITAL BUS SIGNAL NAMES AND USERS					
MCP-1 AND MCP-2 OUTPUT SIGNALS	FCC-A	FCC-B	CD-1	CD-2	DFMS
SELECTED HEADING	X	X	X	X	X
SELECTED COURSE	X	X	X	X	X
ALTITUDE WINDOW WRAP	X	X	X	X	X
MCP MAINT DISCRETES	X	X	X	X	X
MCP DISCRETES	X	X	X	X	X
FD 1	X	X	X	X	X
FD 2	X	X	X	X	X
LNAV	X	X	X	X	X
VOR/LOC	X	X	X	X	X
HDG SEL	X	X	X	X	X
APPROACH	X	X	X	X	X
SPD	X	X	X	X	X
N1	X	X	X	X	X
ALT HOLD	X	X	X	X	X
LEVEL CHANGE	X	X	X	X	X
VNAV	X	X	X	X	X
VERT SPD	X	X	X	X	X
CHANGE OVER	X	X	X	X	X
SPD INTV	X	X	X	X	X
BANK ANGLE LIMIT 10	X	X	X	X	X
BANK ANGLE LIMIT 15	X	X	X	X	X
BANK ANGLE LIMIT 20	X	X	X	X	X
BANK ANGLE LIMIT 25	X	X	X	X	X
ALT INTV	X	X	X	X	X
MCP DISPLAY CHANGE	X	X	X	X	X
ALTITUDE	X	X	X	X	X
VERTICAL SPEED	X	X	X	X	X
A CMD	X	X	X	X	X
A CWS	X	X	X	X	X
B CMD	X	X	X	X	X
B CWS	X	X	X	X	X
AIRSPD/MACH	X	X	X	X	X
ALTITUDE CHANGE	X	X	X	X	X
MCP IDENTIFICATION	X	X	X	X	X
PUSHBUTTON A/P ENGAGE	X	X	X	X	X
ALTITUDE RESOLVERS	X	X	X	X	X

DIGITAL BUS SIGNAL NAMES AND USERS			
MCP-3 OUTPUT SIGNALS	A/T	FMC 1	FMC 2
TARGET MACH	X	X	X
TARGET AIRSPEED	X	X	X
LOCAL SELECTED COURSE	X	X	X
SELECTED ALTITUDE	X	X	X
FOREIGN SELECTED COURSE	X	X	X
FLAP POSITION	X	X	X
AFDS DISCRETE WORD 2	X	X	X
FLARE ENGAGE	X	X	X
G/S ENGAGE	X	X	X
FLARE ARM	X	X	X
AFDS DISCRETE WORD 1	X	X	X
LNAV	X	X	X
VNAV	X	X	X
IAS	X	X	X
AFDS DISCRETE WORD 3	X	X	X
TOGA SW	X	X	X
N1 LIMIT MODE COMMAND	X	X	X
LOC ENGAGED	X	X	X
ALT ACQ	X	X	X
ACTIVE ALT REF	X	X	X
BARO CORRECTED ALT 2	X	X	X
GAMMA DOT ENABLE	X	X	X
ALTITUDE HOLD	X	X	X
LOC ARM	X	X	X
MCP V/S ACTIVE	X	X	X
A/T F/S ENABLE	X	X	X
IAS/MACH	X	X	X
LNAV PB	X	X	X
VNAV PB	X	X	X
A/T MODE ARM	X	X	X
A/T MODE MCP SPEED	X	X	X
A/T MODE FMC SPEED	X	X	X
A/T MODE N1	X	X	X
A/T MODE RETARD	X	X	X

DIGITAL BUS SIGNAL NAMES AND USERS			
MCP-3 OUTPUT SIGNALS	A/T	FMC 1	FMC 2
SPOILER POSITION 2	X	X	X
SPOILER POSITION 7	X	X	X
DFCS BITE RESPONSE	X	X	X
FLIGHT PATH ANGLE RATE	X	X	X



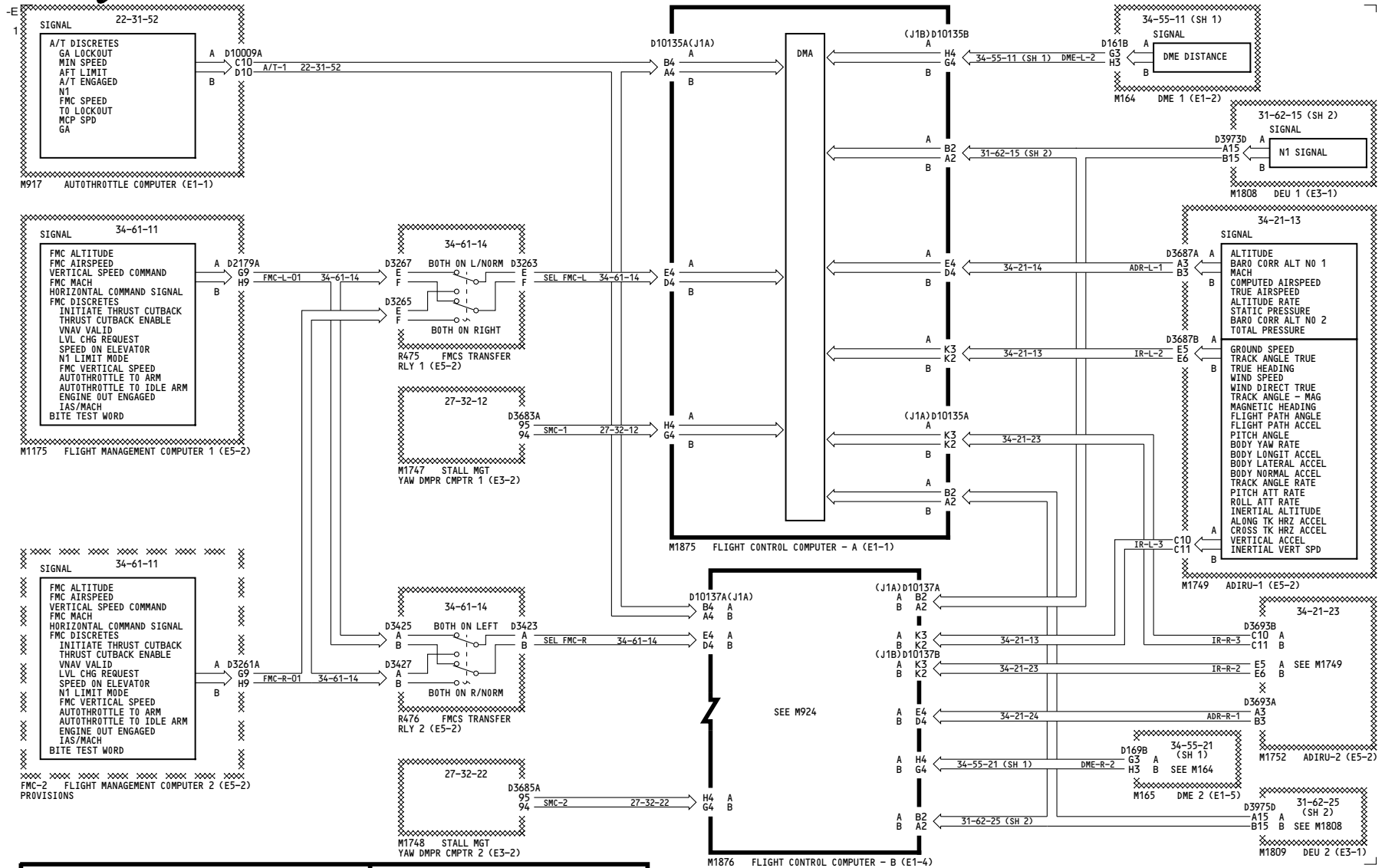
DIGITAL BUS SIGNAL NAMES AND USERS					
FCC-L-1 AND FCC-R-1 OUTPUT SIGNALS	MCP	CD-1	CD-2	DFMS	DFDAU
AFDS DISCRETE WORD 2	X	X	X	X	X
FLARE ENGAGE	X	X	X	X	X
G/S ENGAGE	X	X	X	X	X
VOR/LOC ENGAGE	X	X	X	X	X
HDG SEL ALT ACQ	X	X	X	X	X
ALT HOLD	X	X	X	X	X
V/S ENGAGE	X	X	X	X	X
TO/GA	X	X	X	X	X
SINGLE CH	X	X	X	X	X
A/P OFF	X	X	X	X	X
CWS PITCH	X	X	X	X	X
CWS ROLL	X	X	X	X	X
FLARE ARM	X	X	X	X	X
G/S ARM	X	X	X	X	X
VOR/LOC ARM	X	X	X	X	X
V/S ARM	X	X	X	X	X
L NAV ENGAGE	X	X	X	X	X
MCP SPD	X	X	X	X	X
AFDS DISCRETE WORD 4	X	X	X	X	X
V NAV PATH	X	X	X	X	X
V NAV SPD	X	X	X	X	X
F/D A ON	X	X	X	X	X
F/D B ON	X	X	X	X	X
CMD A	X	X	X	X	X
CMD B	X	X	X	X	X
CWS A	X	X	X	X	X
CWS B	X	X	X	X	X
ILS DEV WARN	X	X	X	X	X
A/T SPEED WARN	X	X	X	X	X
LOC DEV WARN	X	X	X	X	X
G/S DEV WARN	X	X	X	X	X
L CL LIMITED MASTER	X	X	X	X	X
SPD/ALT OPTION	X	X	X	X	X
TEST DISPLAY CMD	X	X	X	X	X
ALT INTV	X	X	X	X	X
SPEED INTV	X	X	X	X	X
AFDS DISCRETE WORD 1	X	X	X	X	X
A MASTER LT	X	X	X	X	X
B MASTER LT	X	X	X	X	X
LNAV	X	X	X	X	X
VOR/LOC	X	X	X	X	X
HDG SEL	X	X	X	X	X
APPROACH	X	X	X	X	X
SPD	X	X	X	X	X
N1	X	X	X	X	X
ALT HOLD	X	X	X	X	X
LVL CHG	X	X	X	X	X
VNAV	X	X	X	X	X
VERT SPD	X	X	X	X	X
IAS	X	X	X	X	X
OVERSPEED FLAG	X	X	X	X	X
UNDERSPEED FLAG	X	X	X	X	X
CWS WARN	X	X	X	X	X
BITE WARN	X	X	X	X	X
AFDS DISCRETE WORD 3	X	X	X	X	X
TOGA SW	X	X	X	X	X
N1 LIMIT MODE COMMAND	X	X	X	X	X
LOC ENGAGED	X	X	X	X	X
ALT ACQ	X	X	X	X	X
ACTIVE ALT REF	X	X	X	X	X
BARO CORRECTED ALT 2	X	X	X	X	X
GAMMA DOT ENABLE	X	X	X	X	X
ALTITUDE HOLD	X	X	X	X	X
LOC ARM	X	X	X	X	X
MCP V/S ACTIVE	X	X	X	X	X
A/T F/S ENABLE	X	X	X	X	X
IAS/MACH	X	X	X	X	X
LNAV PB	X	X	X	X	X
VNAV PB	X	X	X	X	X
A/T MODE ARM	X	X	X	X	X
A/T MODE MCP SPEED	X	X	X	X	X
A/T MODE FMC SPEED	X	X	X	X	X
A/T MODE N1	X	X	X	X	X
A/T MODE RETARD	X	X	X	X	X
A/S BUG DRIVE	X	X	X	X	X
SPOILER POSITION 2	X	X	X	X	X
SPOILER POSITION 7	X	X	X	X	X
DFCS BITE RESPONSE	X	X	X	X	X
FLIGHT PATH ANGLE RATE	X	X	X	X	X

DIGITAL BUS SIGNAL NAMES AND USERS				
FCC-L-1 AND FCC-R-1 OUTPUT SIGNALS	MCP	CD-1	CD-2	DFDAU
TARGET MACH	X	X	X	X
TARGET AIRSPEED	X	X	X	X
SELECTED COURSE NO 1	X	X	X	X
SELECTED HEADING	X	X	X	X
SELECTED ALTITUDE	X	X	X	X
SELECTED AIRSPEED	X	X	X	X
SELECTED VERTICAL SPEED	X	X	X	X
SELECTED MACH	X	X	X	X
SELECTED COURSE NO 2 (FGN)	X	X	X	X
FLAP POSITION	X	X	X	X
FLIGHT DIRECTOR - ROLL	X	X	X	X
FLIGHT DIRECTOR - PITCH	X	X	X	X

YK907-YM670

DFCS - DIGITAL BUS INTERFACES - OUTPUT

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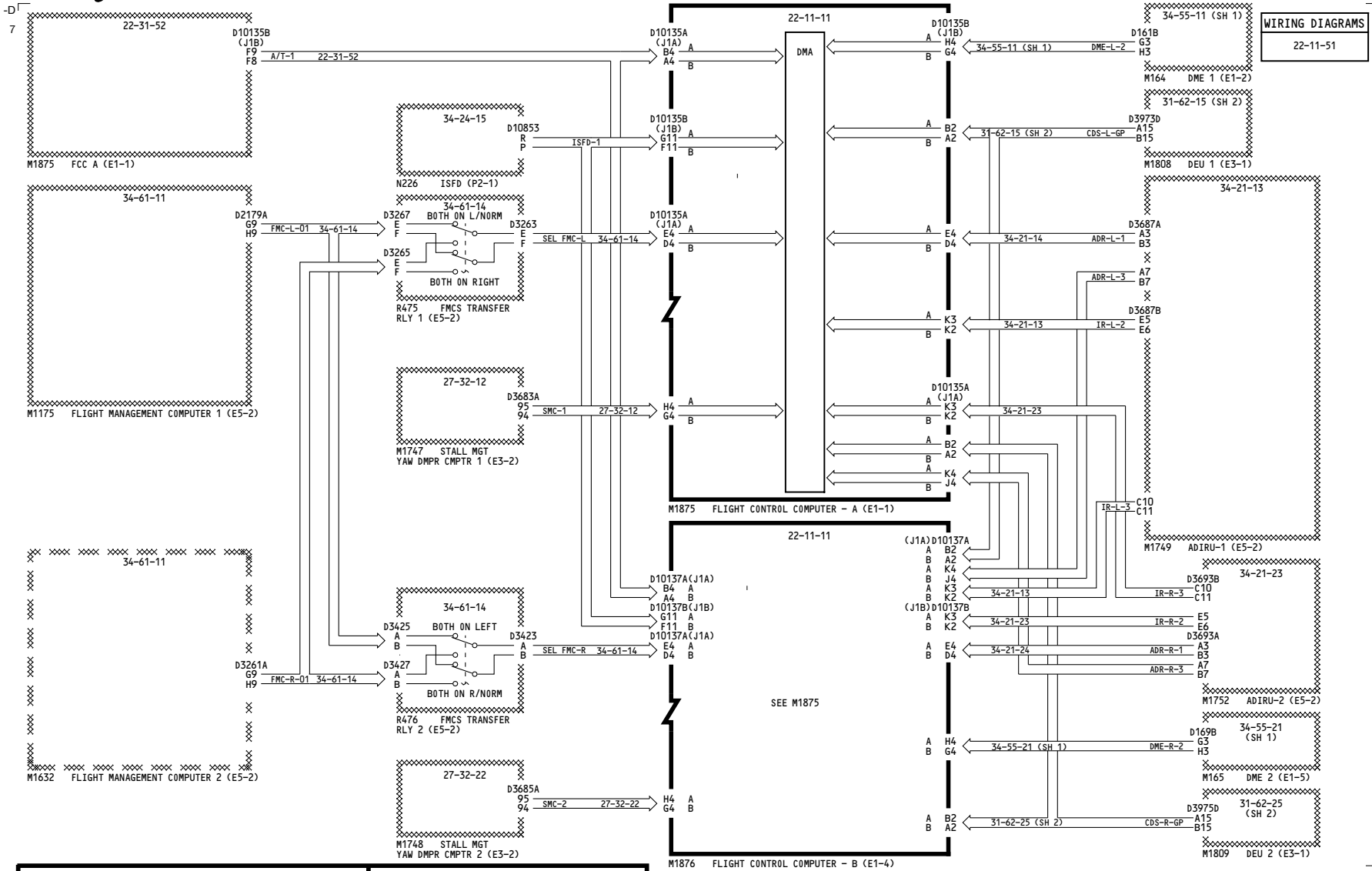


YC001-YC030

DFCS - DIGITAL BUS INTERFACES - INPUT

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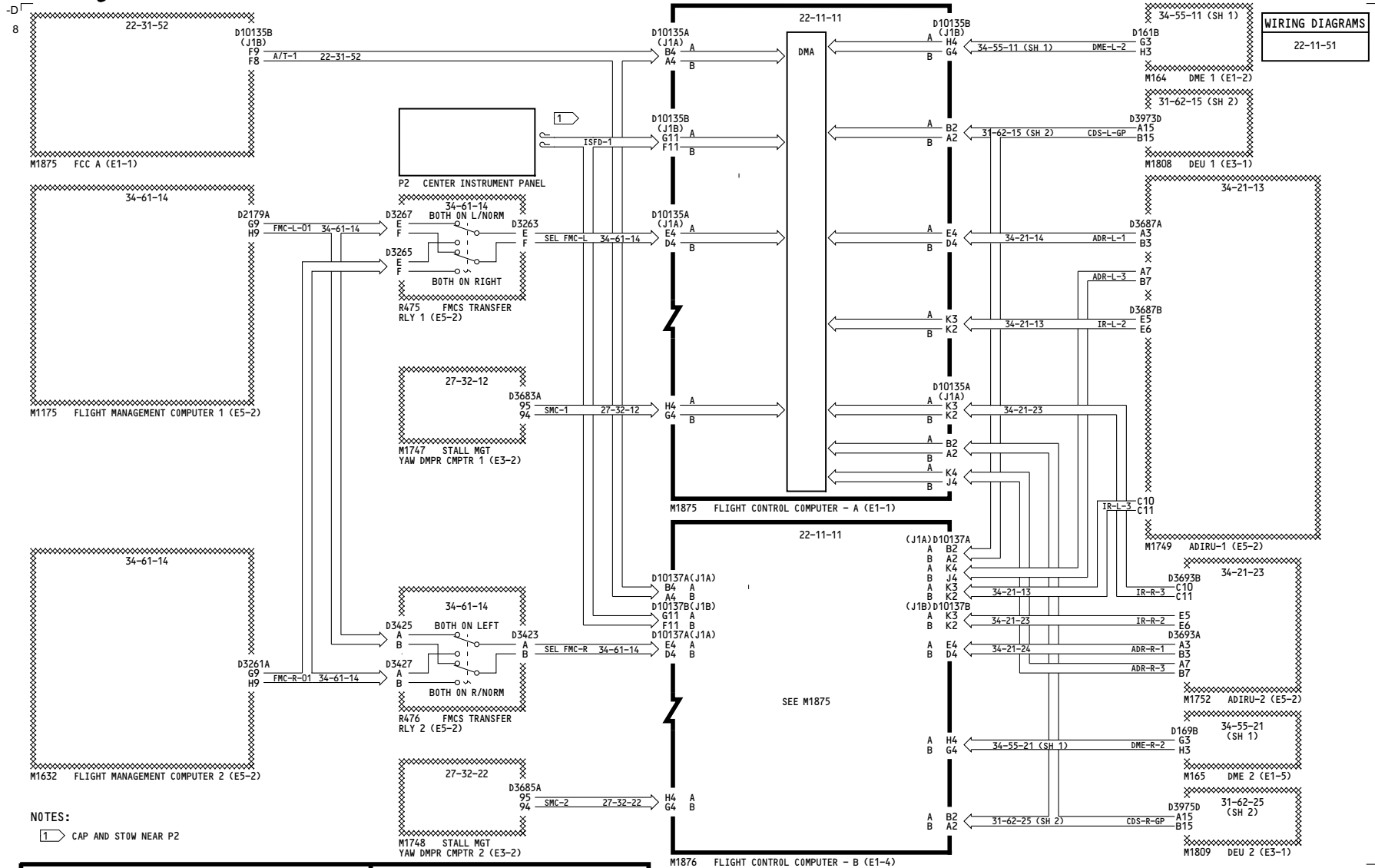
YK901-YK906

DFCS - DIGITAL BUS INTERFACES - INPUT

D280A203

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WIRING DIAGRAMS
22-11-51



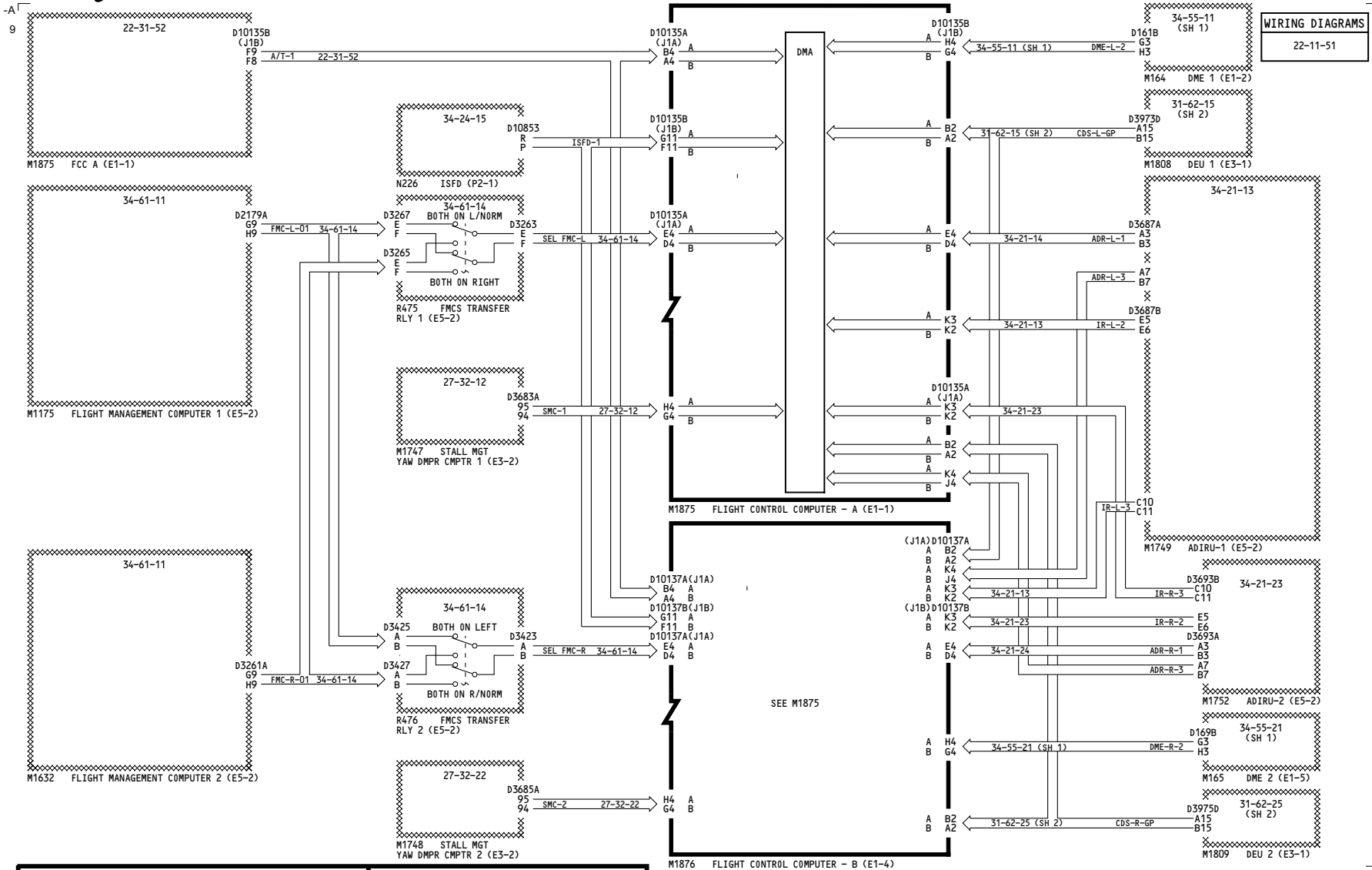
NOTES:
1 CAP AND STOW NEAR P2

YK907-YK920, YM643-YM646

DFCS - DIGITAL BUS INTERFACES - INPUT

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WIRING DIAGRAMS
22-11-51

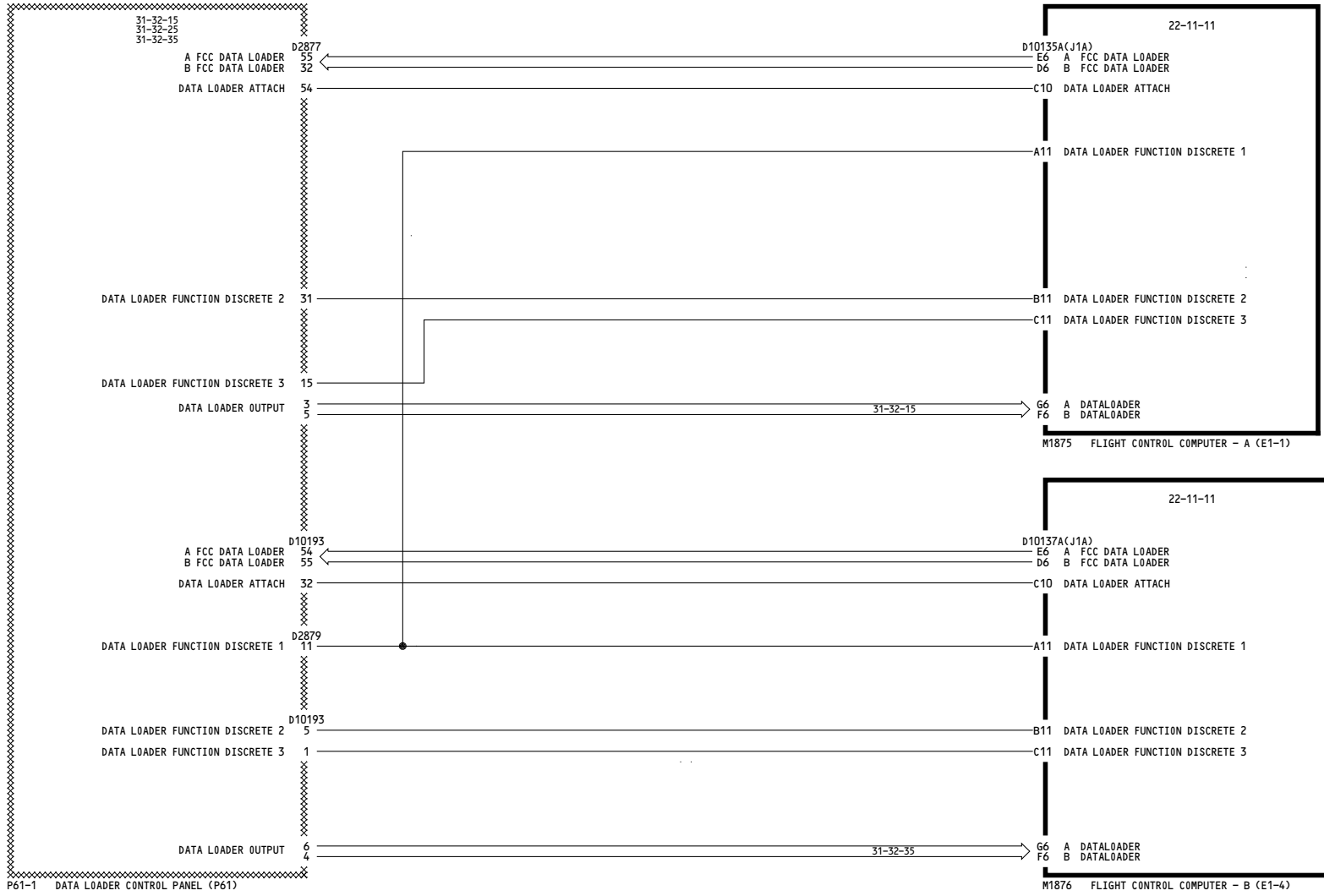
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DFCS - DIGITAL BUS INTERFACES - INPUT

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YC001-YC011

**DFCS - DIGITAL BUS
INTERFACES - DATA LOADER**

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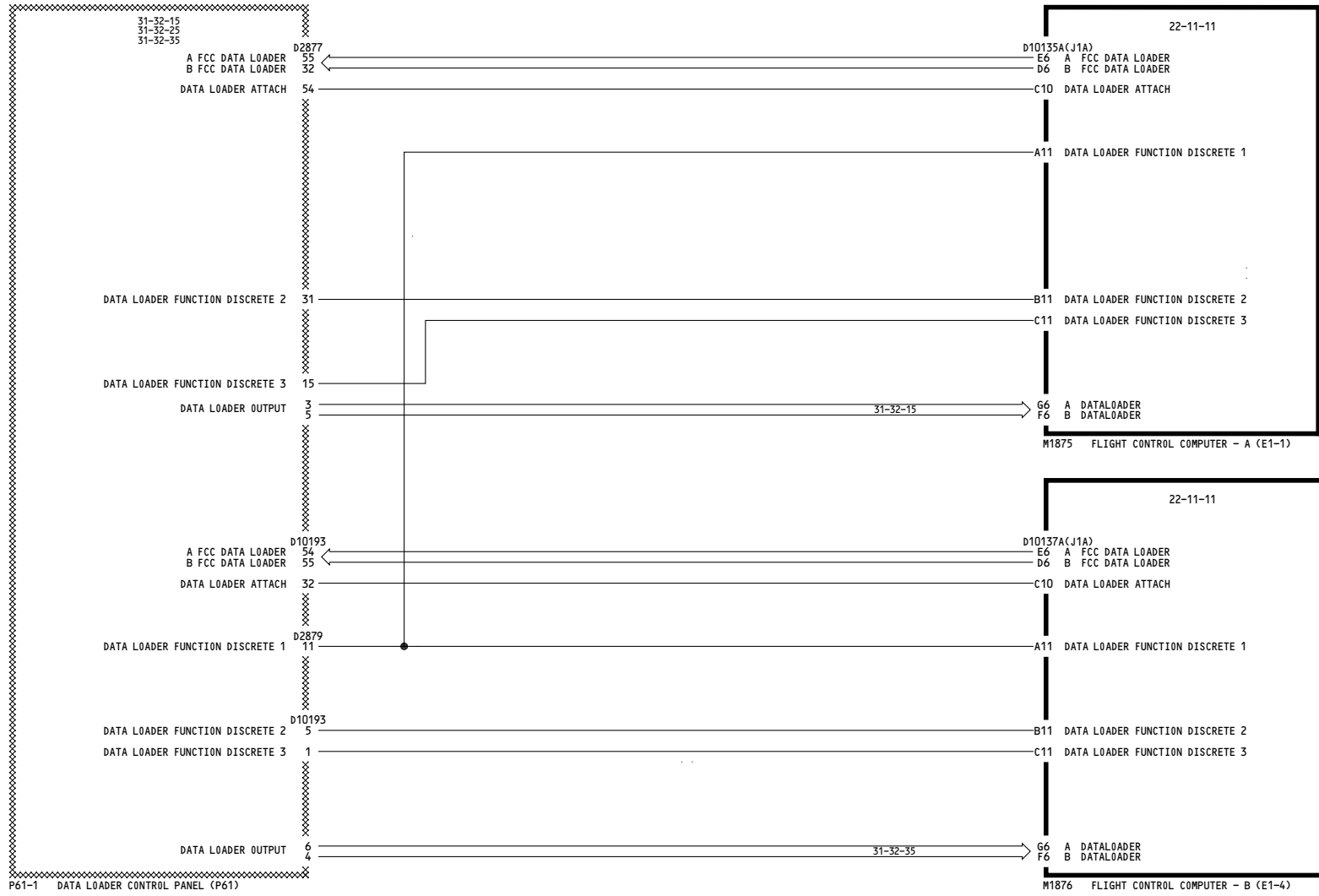
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YC012-YM670

**DFCS - DIGITAL BUS
INTERFACES - DATA LOADER**

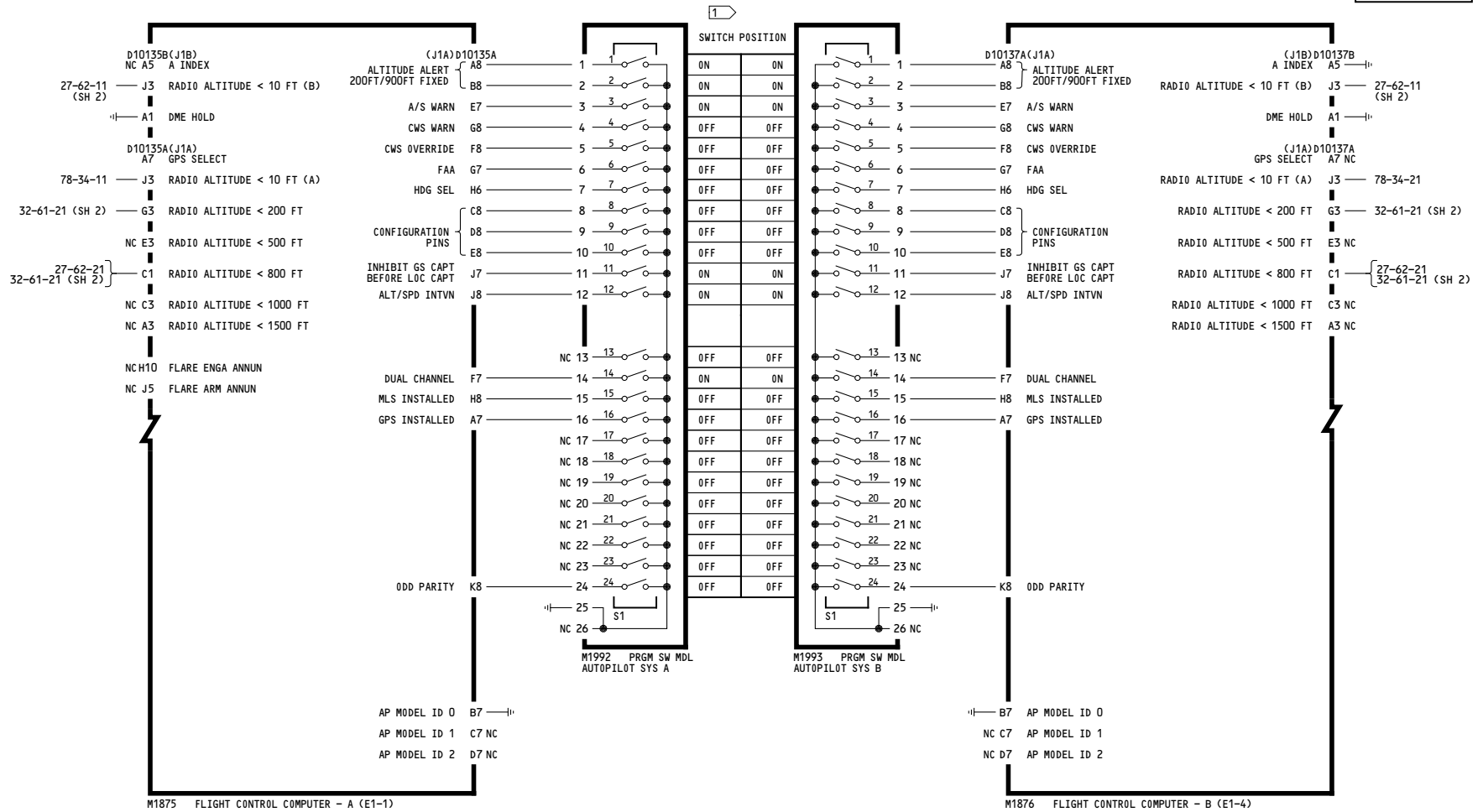
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OFF = OPEN
ON = CLOSED

YC001-YC028, YC030

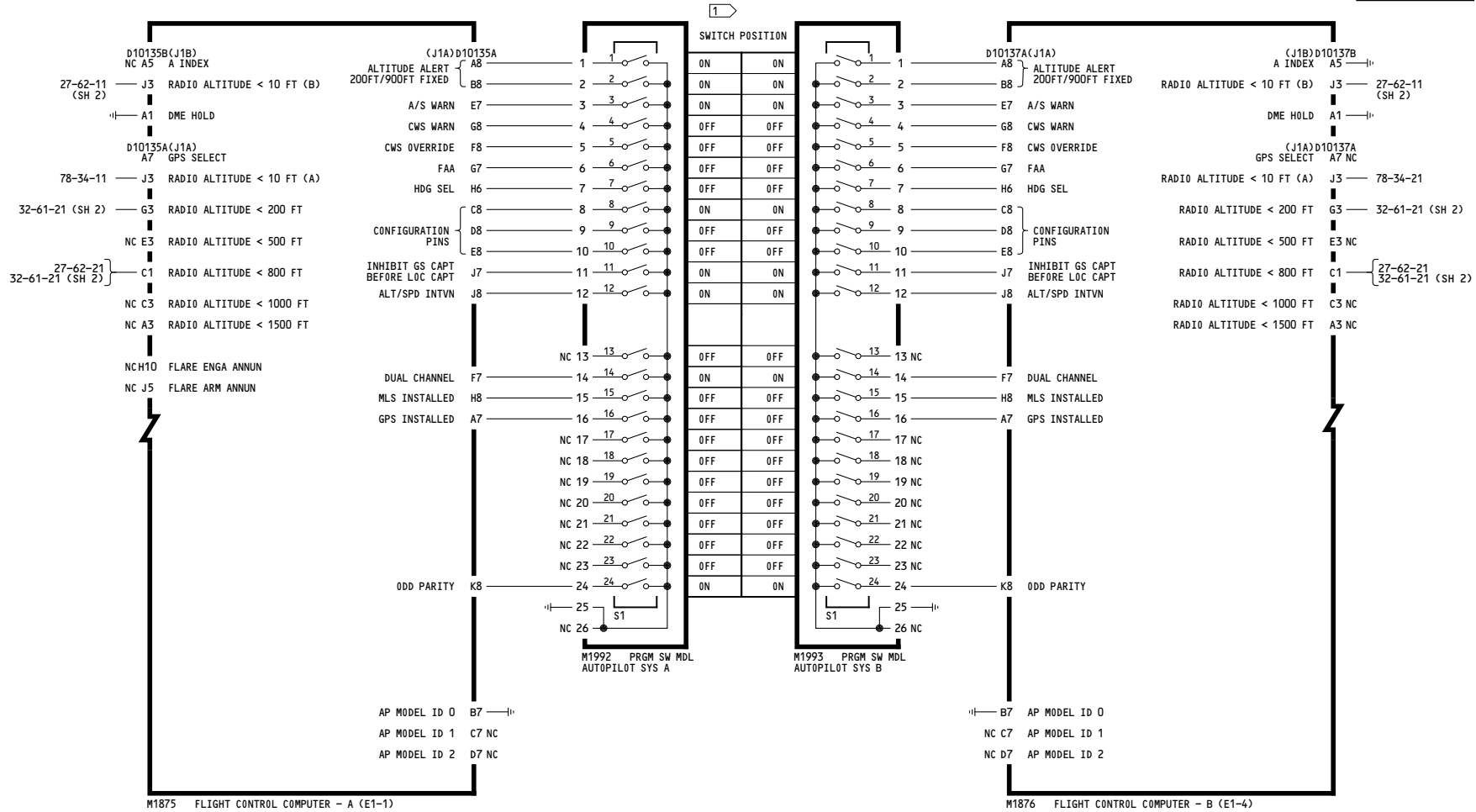
**DFCS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

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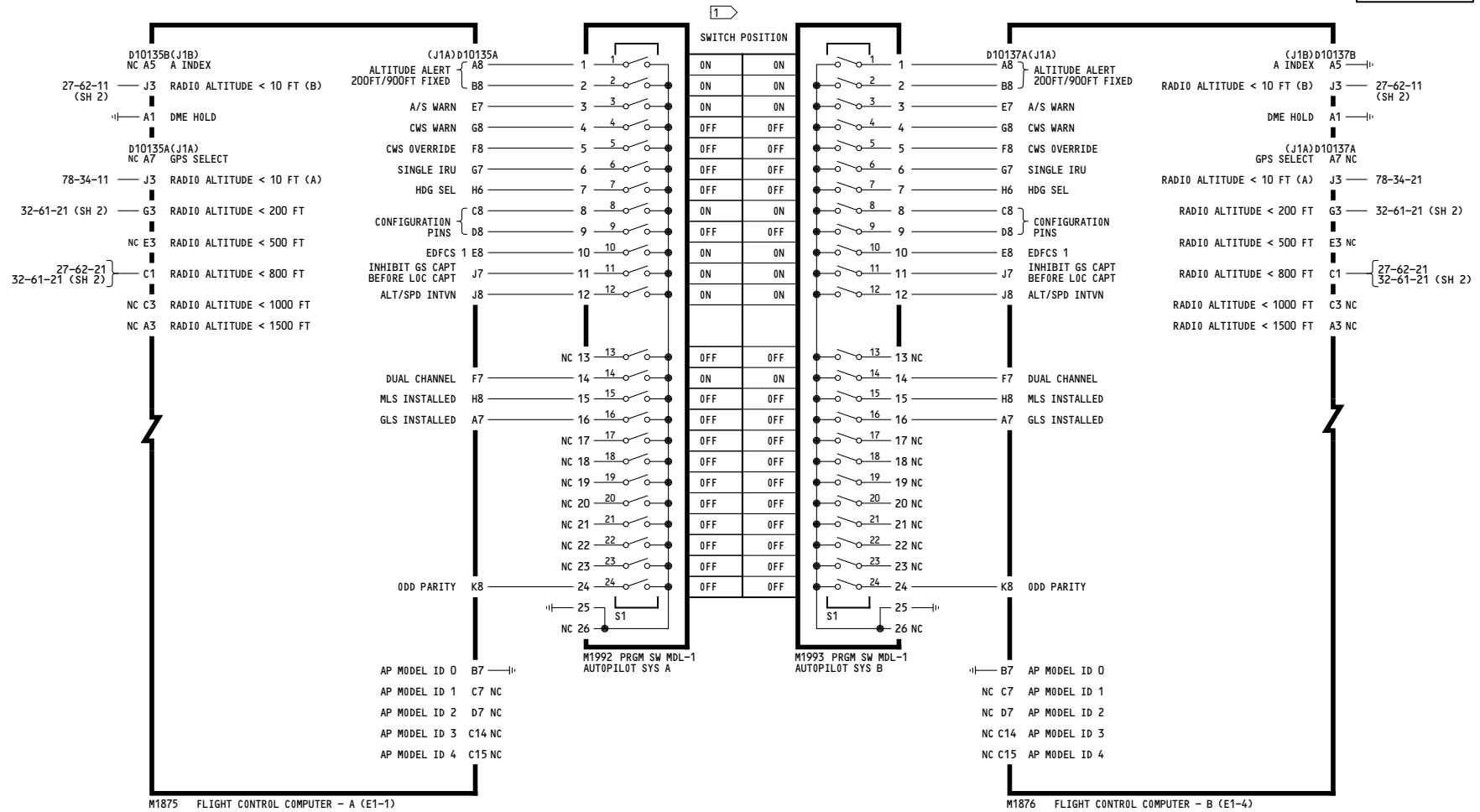


1 OFF = OPEN
ON = CLOSED

YC029

**DFCS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203

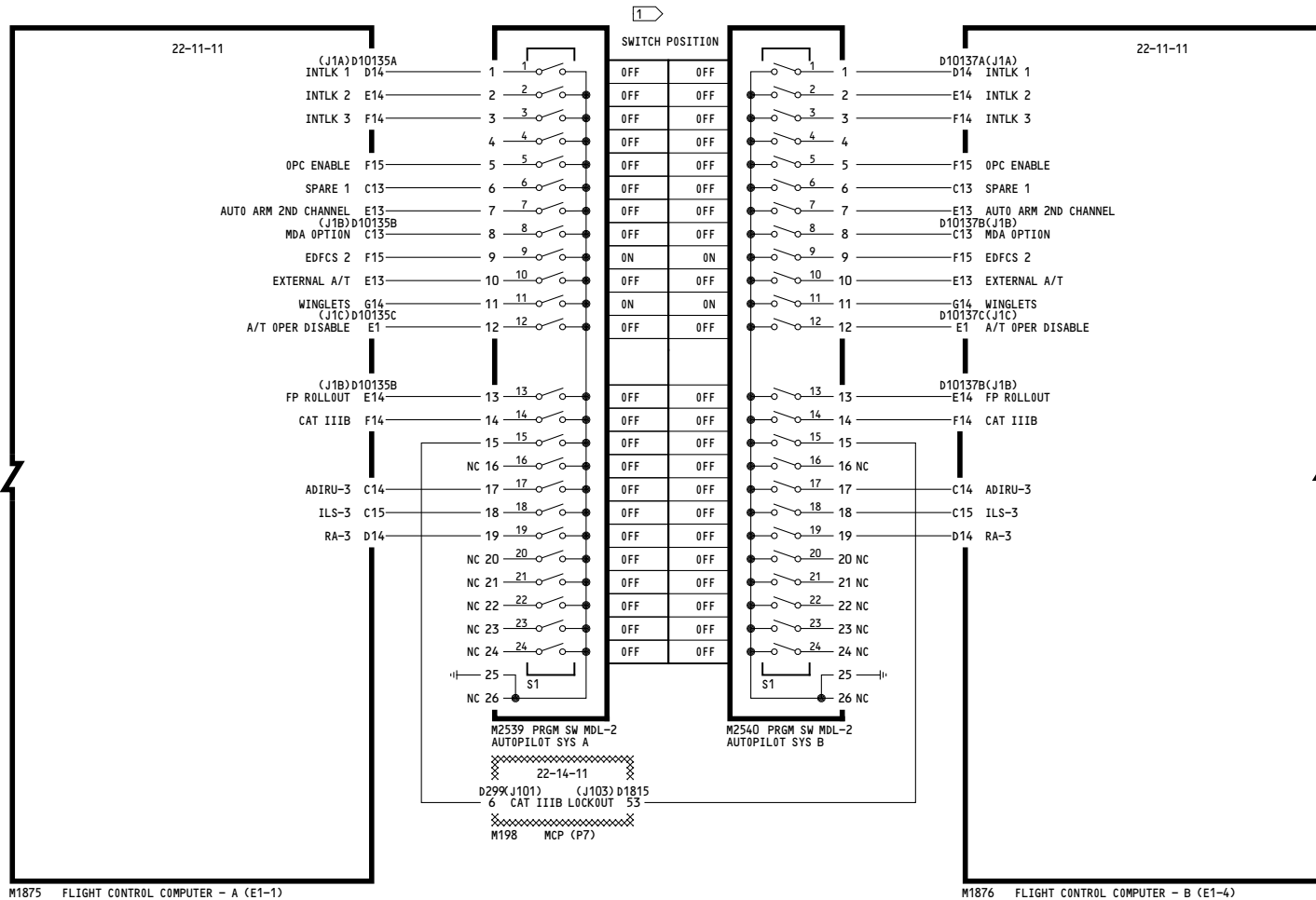


OFF = OPEN
ON = CLOSED

YK901-YK906

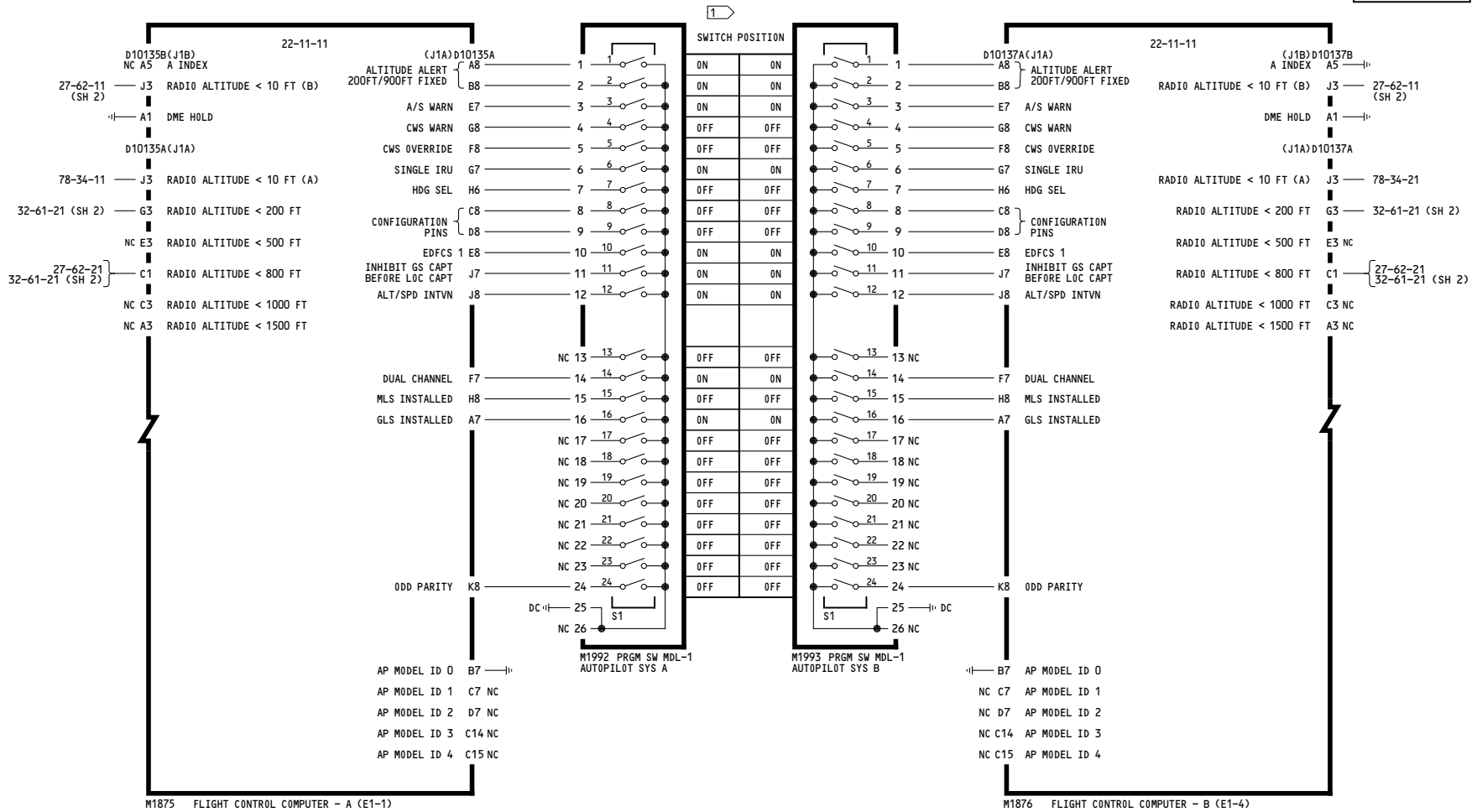
**EDACS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203



OFF = OPEN
ON = CLOSED

YK901-YK906	<p>EDFCS - A AND B OPTION PINS AND DISCRETE OUTPUTS</p> <p>D280A203</p>
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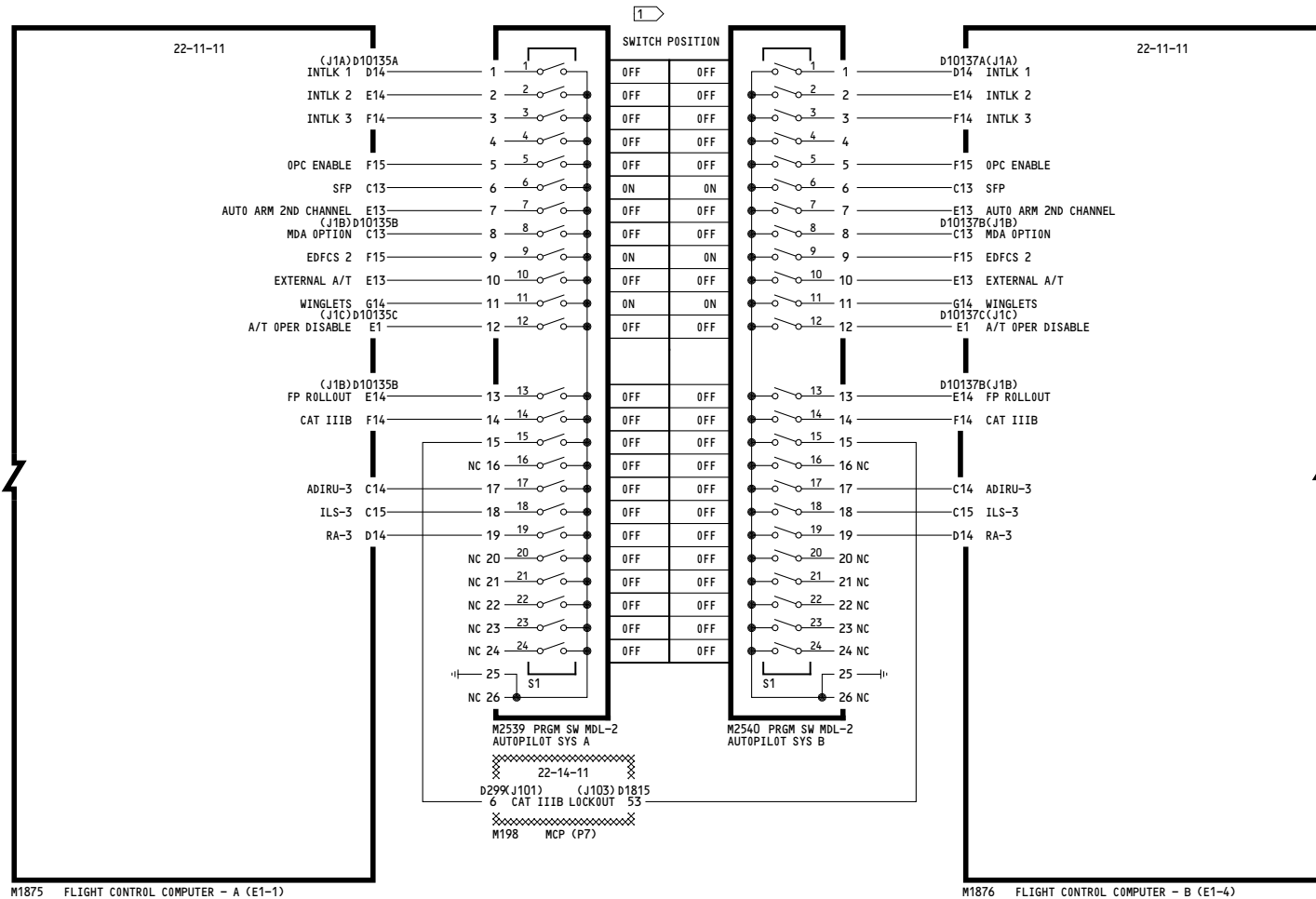


OFF = OPEN
ON = CLOSED

YK907

**EDFCS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203



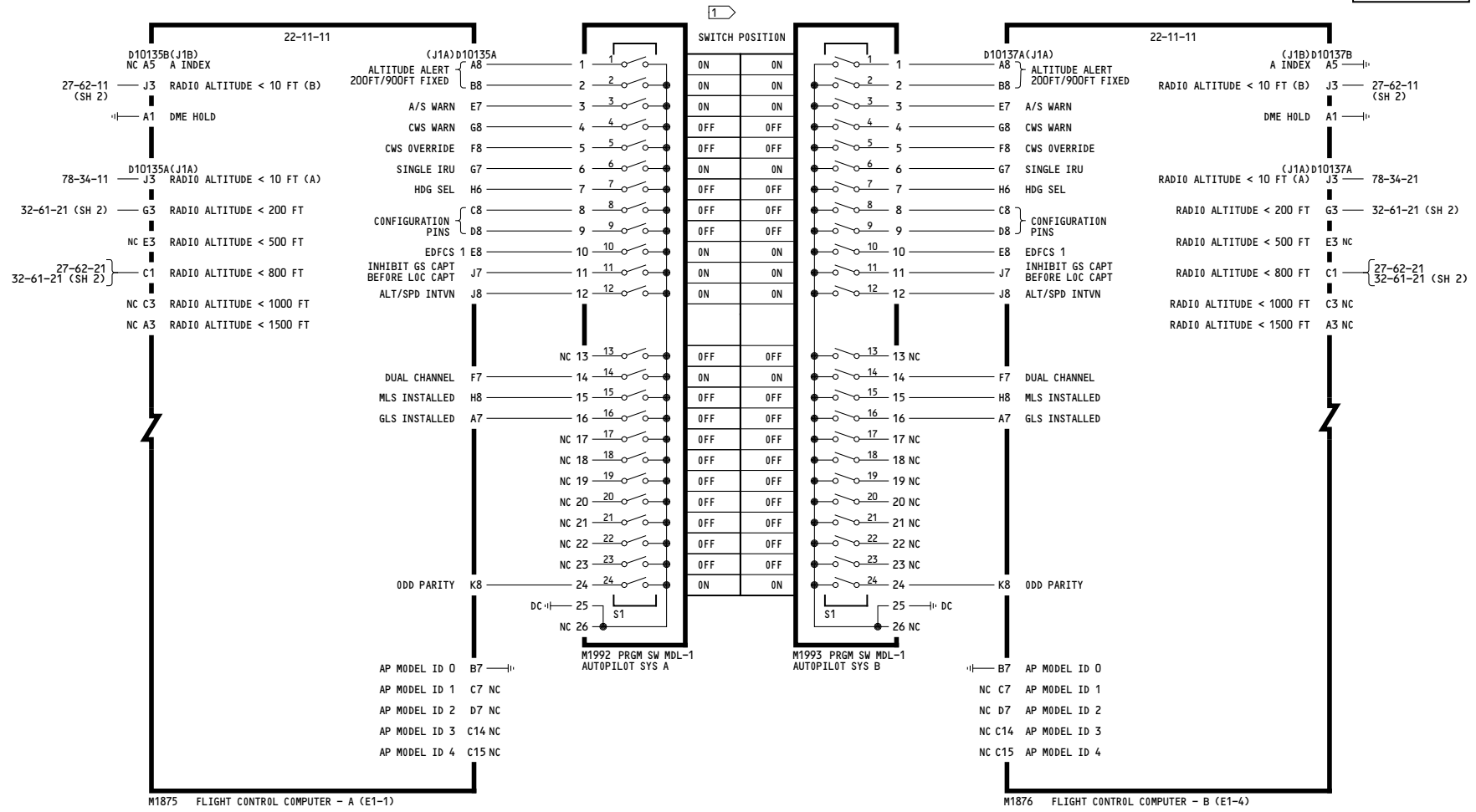
OFF = OPEN
ON = CLOSED

YK907

**EDACS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203

22-11-75

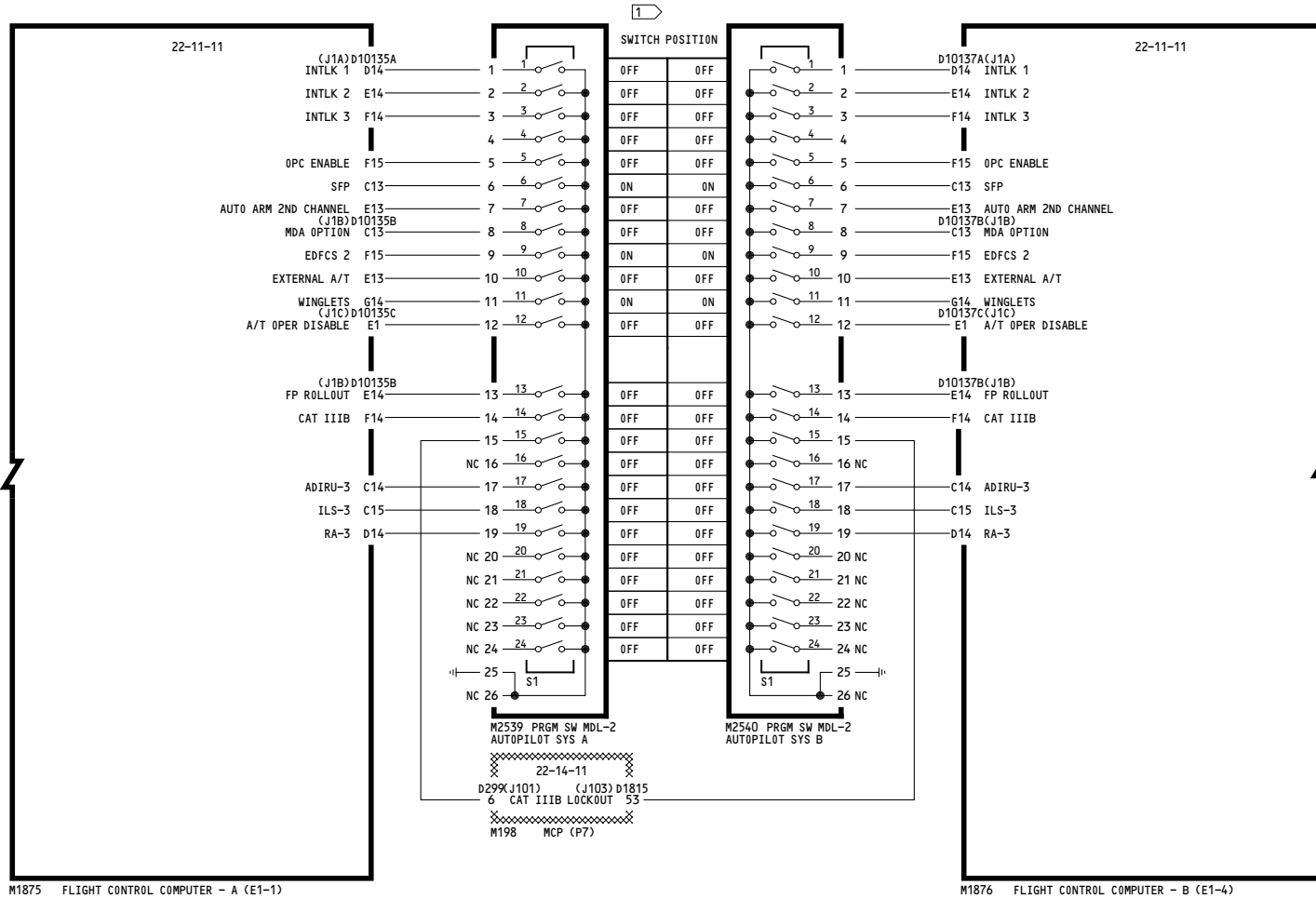


OFF = OPEN
ON = CLOSED

YK908-YK909

**EDFCS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203



OFF = OPEN
ON = CLOSED

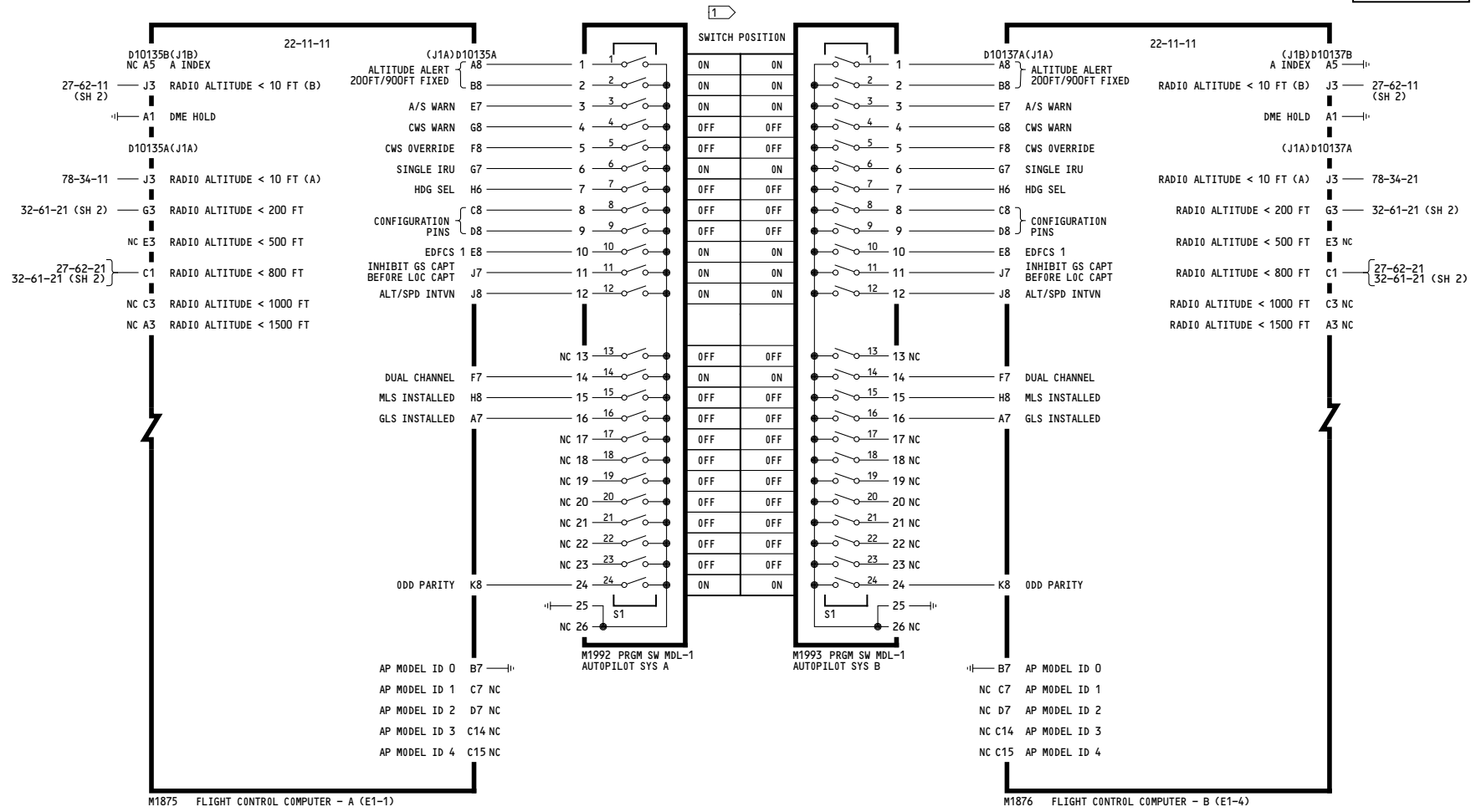
YK908-YK909

**EDFCS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203

22-11-75

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Sheet 2
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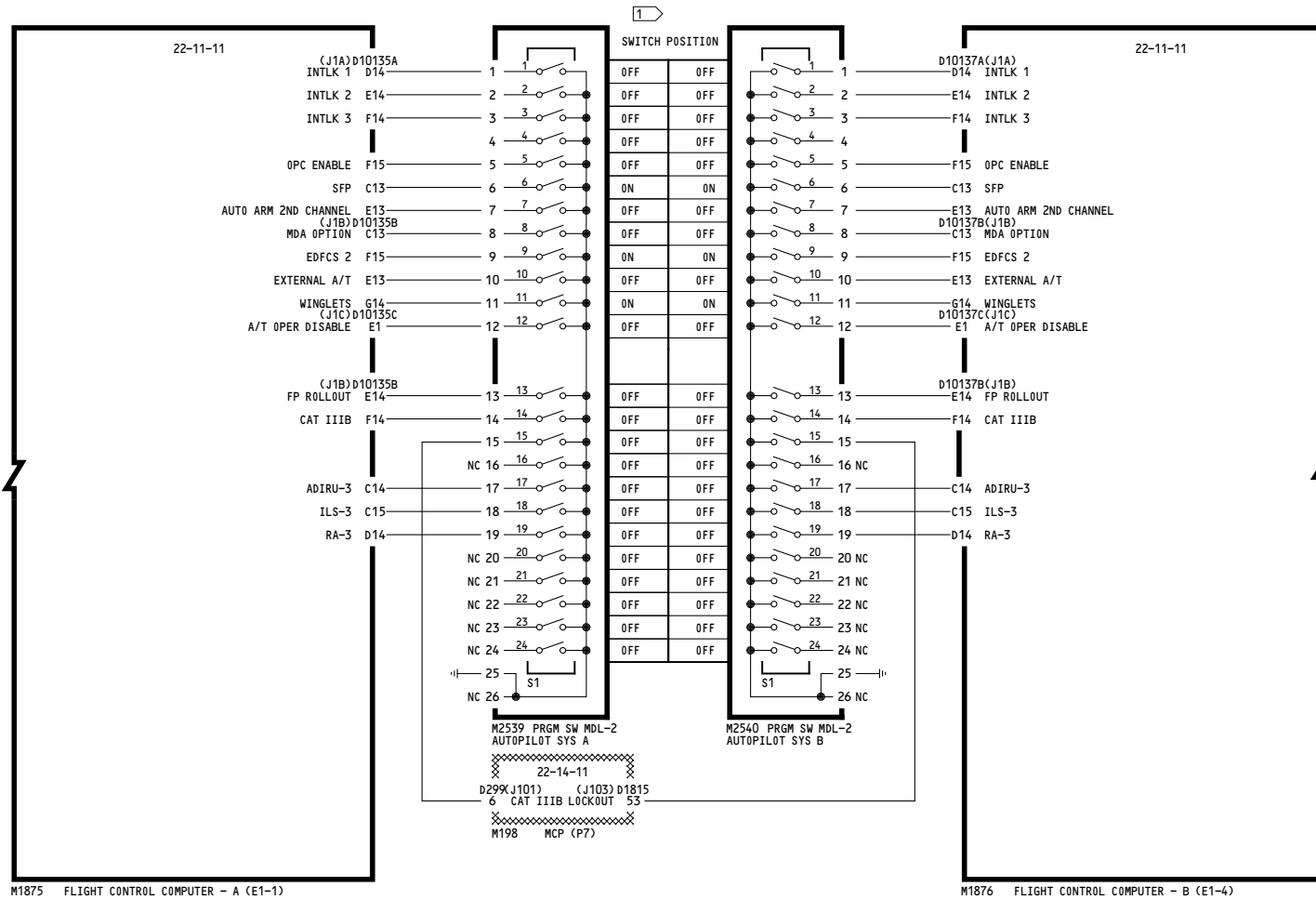


OFF = OPEN
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YK910-YK920

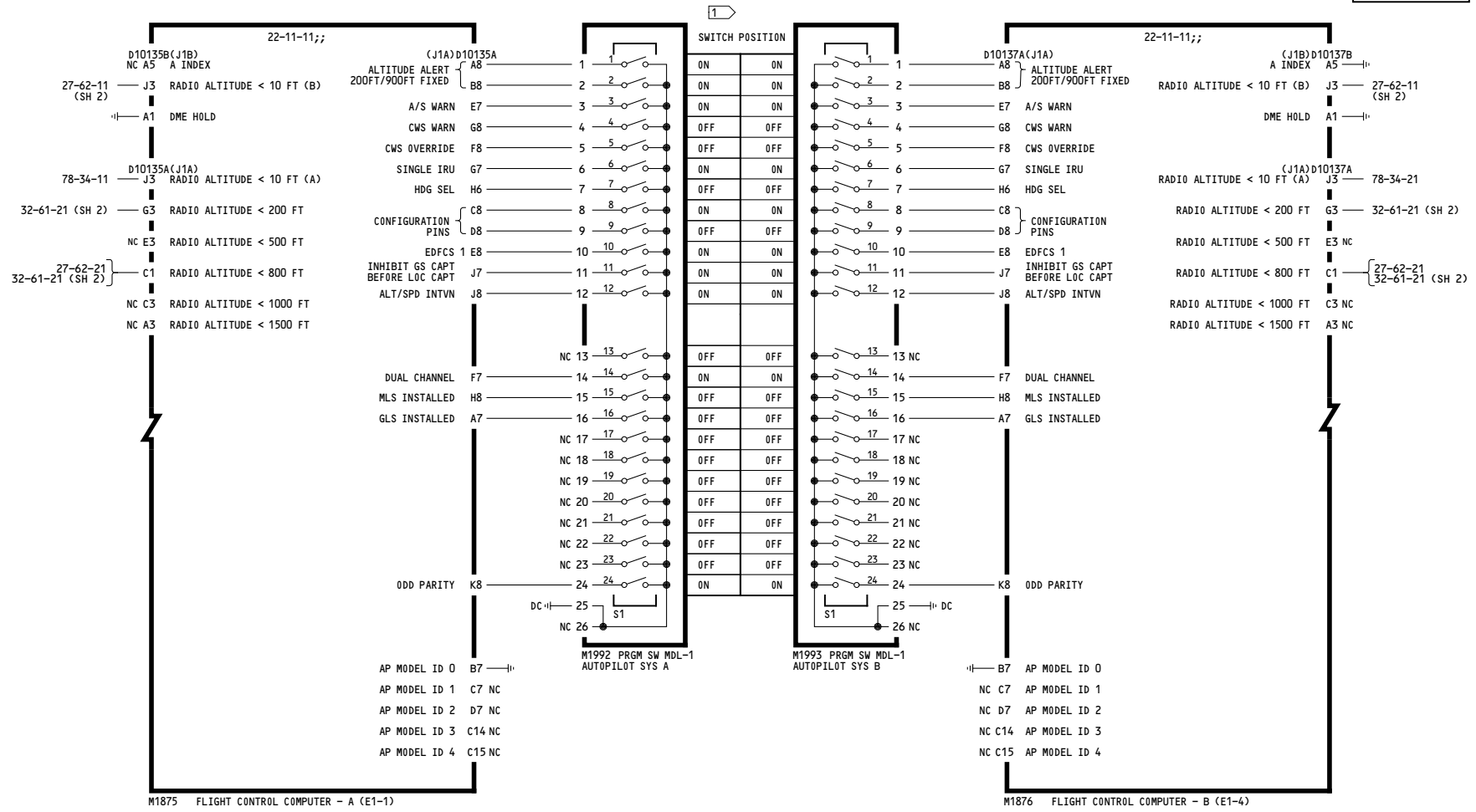
**EDFCS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203



OFF = OPEN
ON = CLOSED

YK910-YK920	EDACS - A AND B OPTION PINS AND DISCRETE OUTPUTS
	D280A203

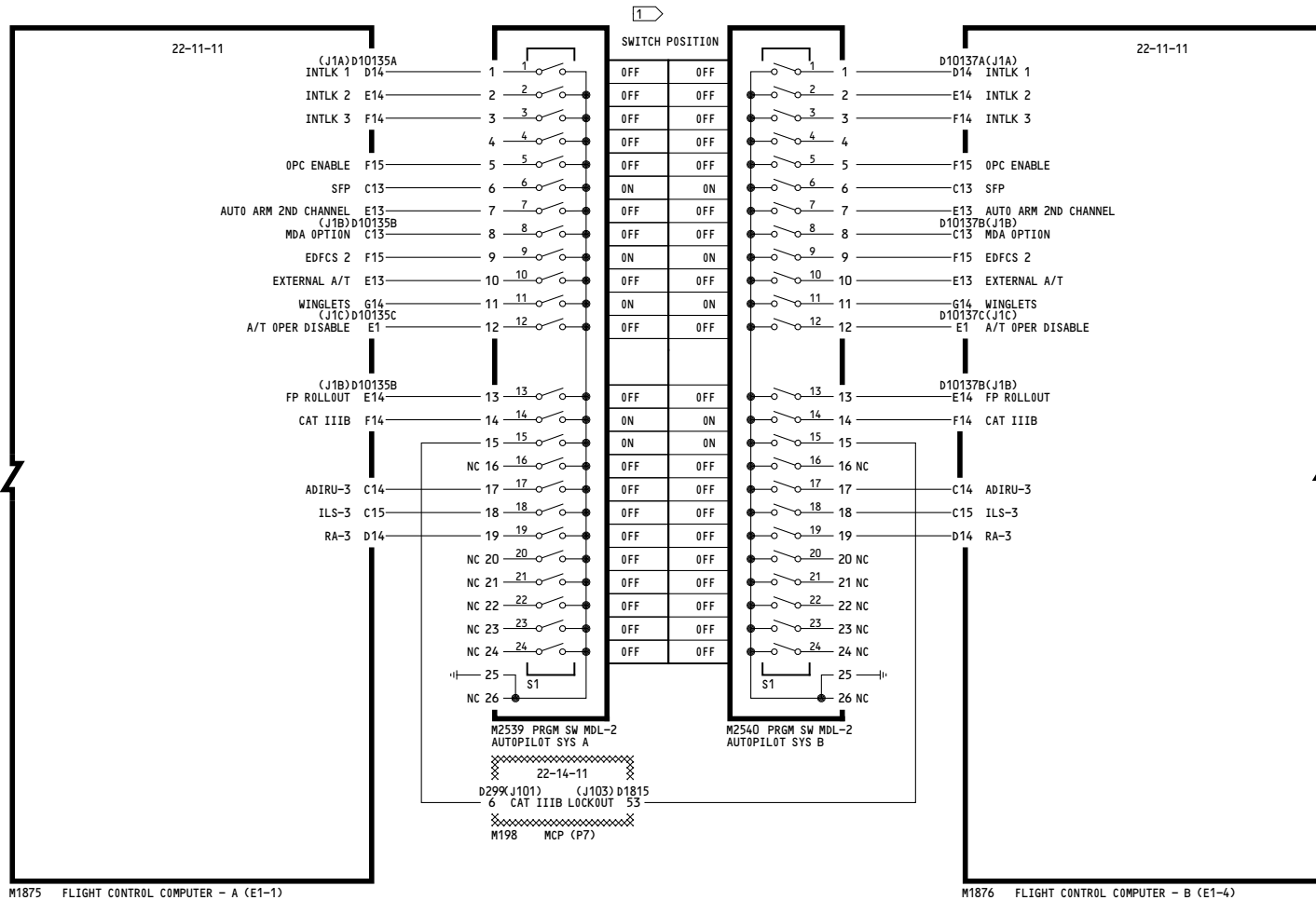


OFF = OPEN
ON = CLOSED

YL401-YL430

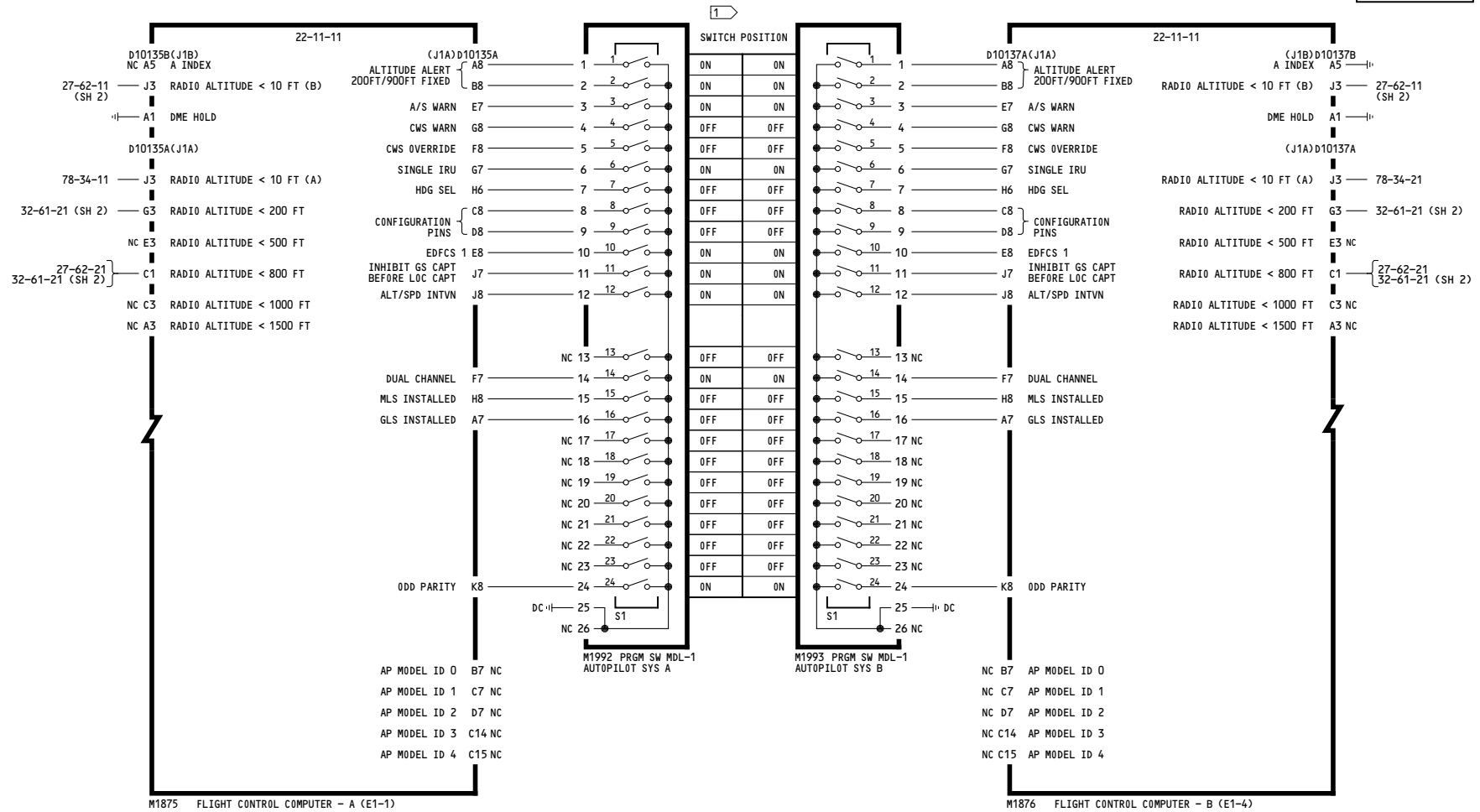
**EDFCS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203



OFF = OPEN
ON = CLOSED

YL401-YL430	<p>EDACS - A AND B OPTION PINS AND DISCRETE OUTPUTS</p> <p>D280A203</p>
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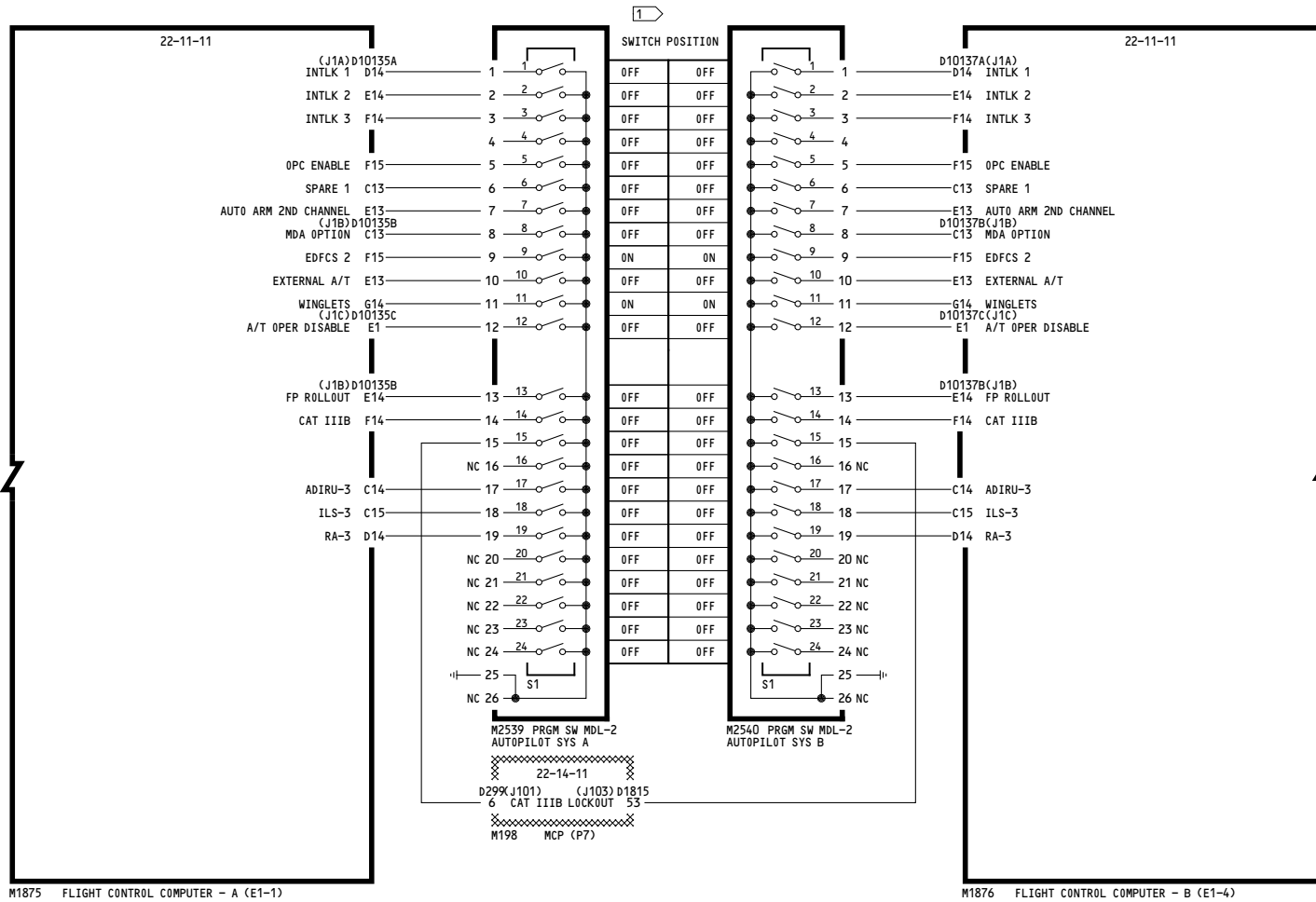
OFF = OPEN
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YM643-YM646

**EDFCS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

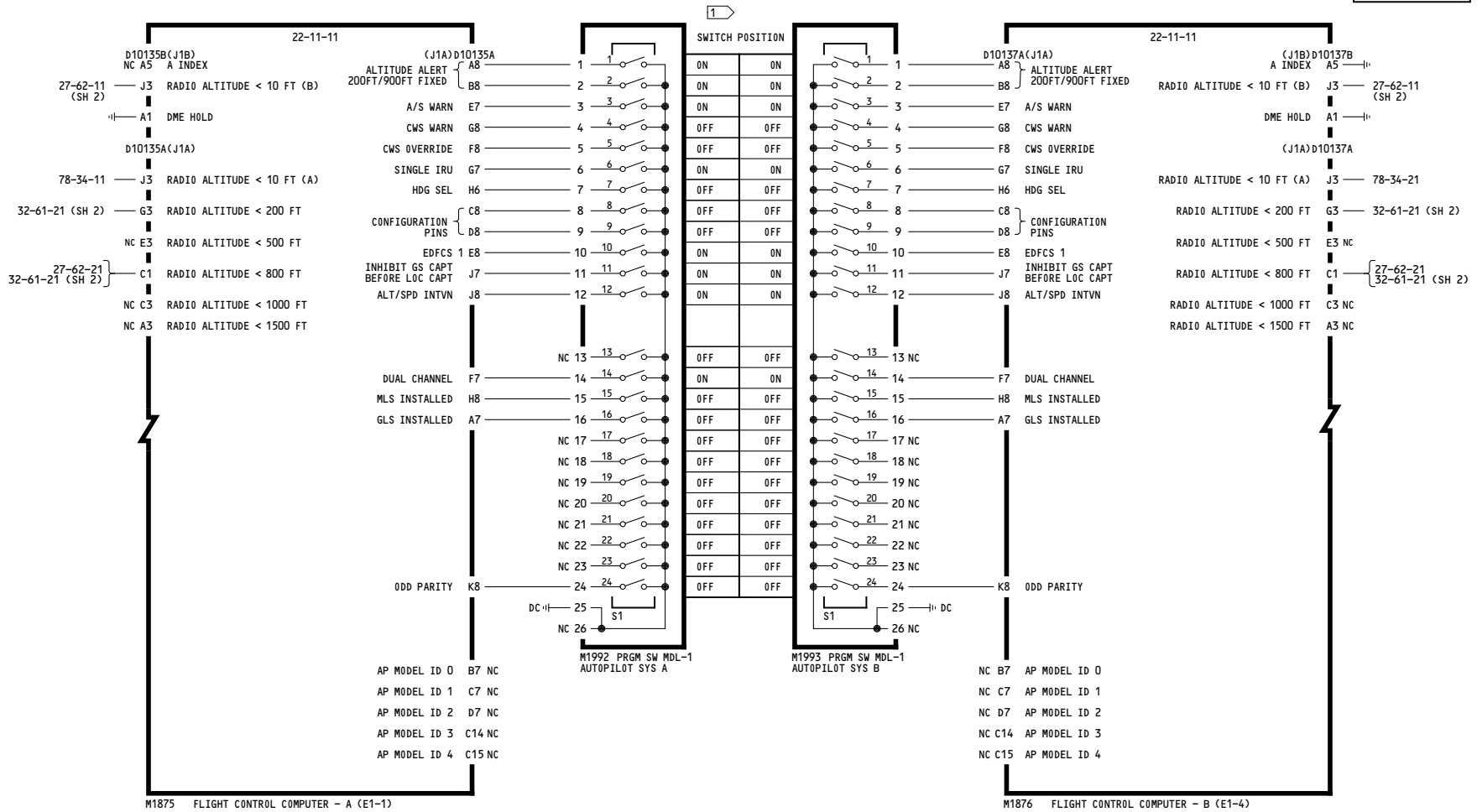
D280A203

22-11-75



OFF = OPEN
ON = CLOSED

YM643-YM646	<p>EDACS - A AND B OPTION PINS AND DISCRETE OUTPUTS</p> <p>D280A203</p>
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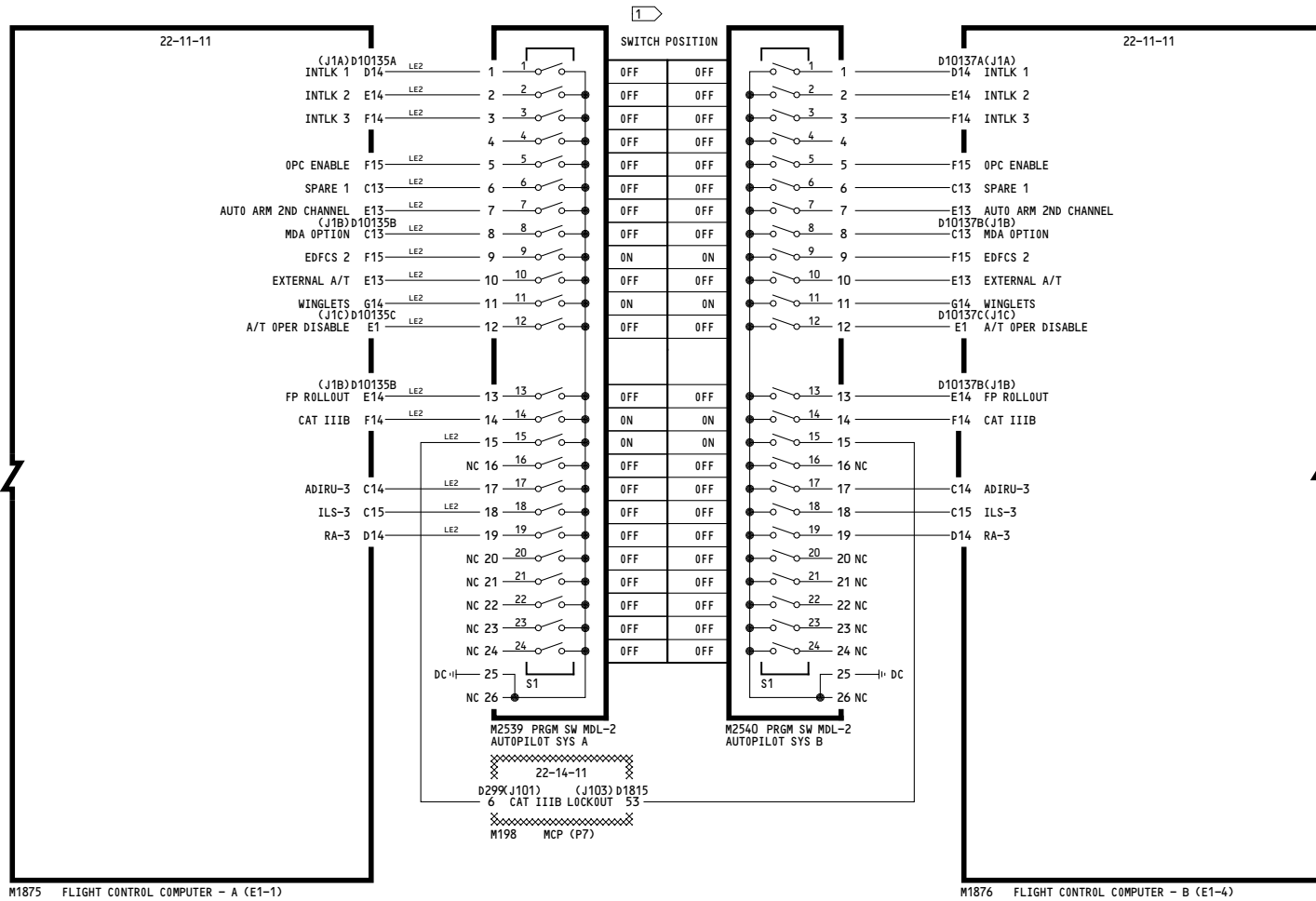


OFF = OPEN
ON = CLOSED

YM647-YM670

**EDACS -
A AND B OPTION PINS
AND DISCRETE OUTPUTS**

D280A203

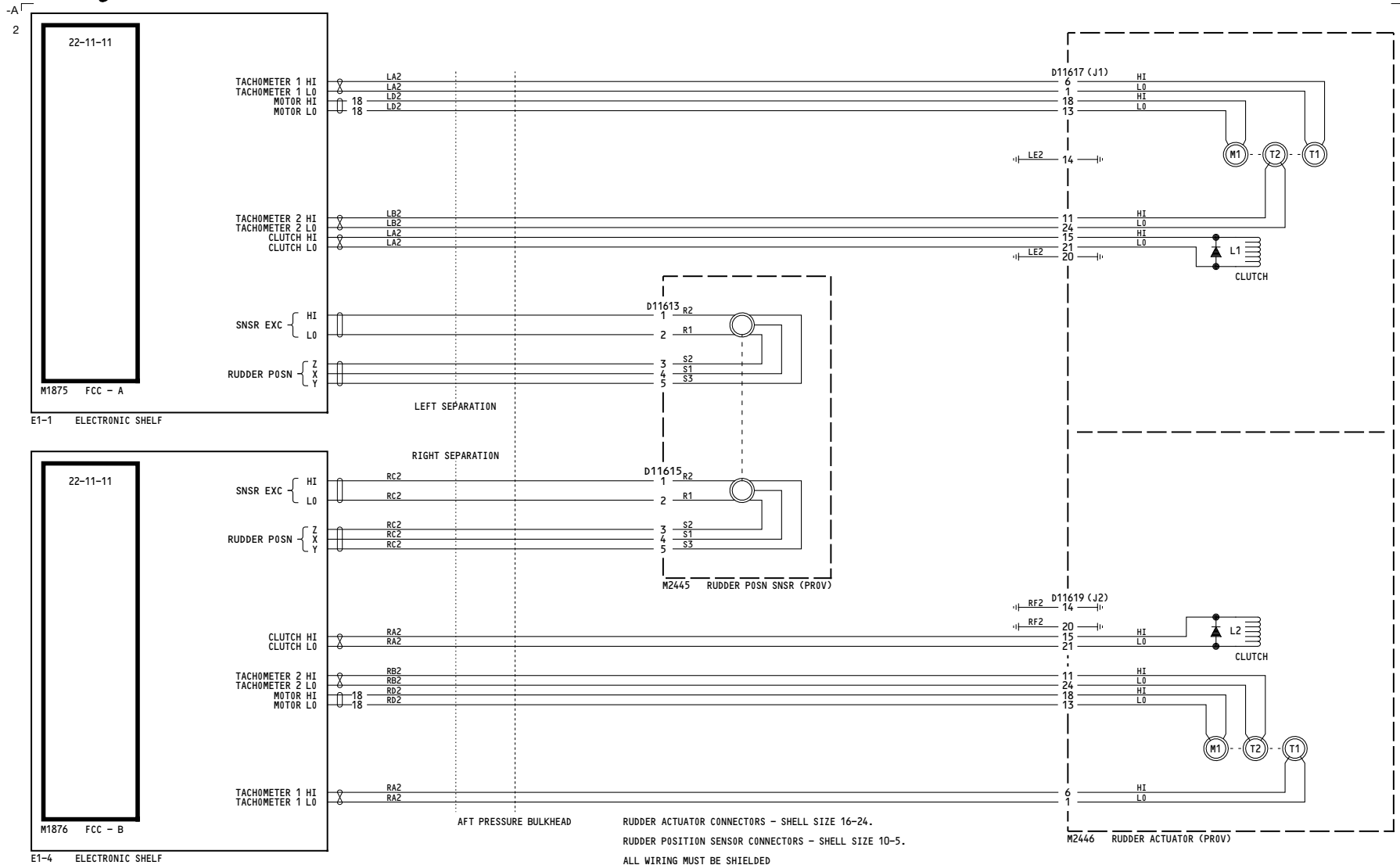


OFF = OPEN
ON = CLOSED

YM647-YM670	<p>EDFCS - A AND B OPTION PINS AND DISCRETE OUTPUTS</p> <p>D280A203</p>
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22-11-75

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Nov 11/2008



<p>YC020-YC030</p>	<p>DFCS - RUDDER COMMAND AND CONTROL</p> <p>D280A203</p>
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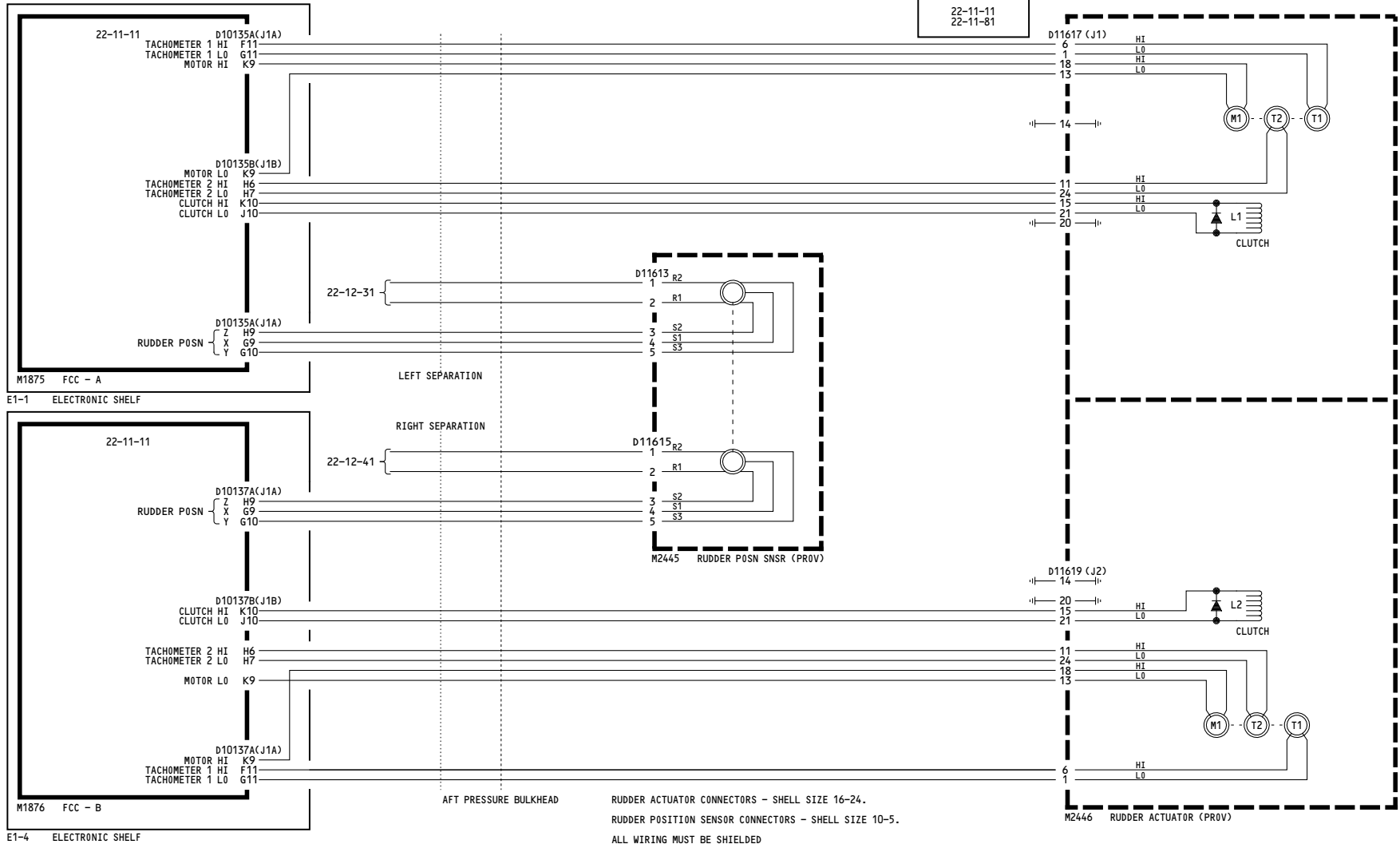
22-11-81

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WIRING DIAGRAMS
22-11-11
22-11-81



YK901-YK920, YM643-YM646

DFCS - RUDDER COMMAND AND CONTROL

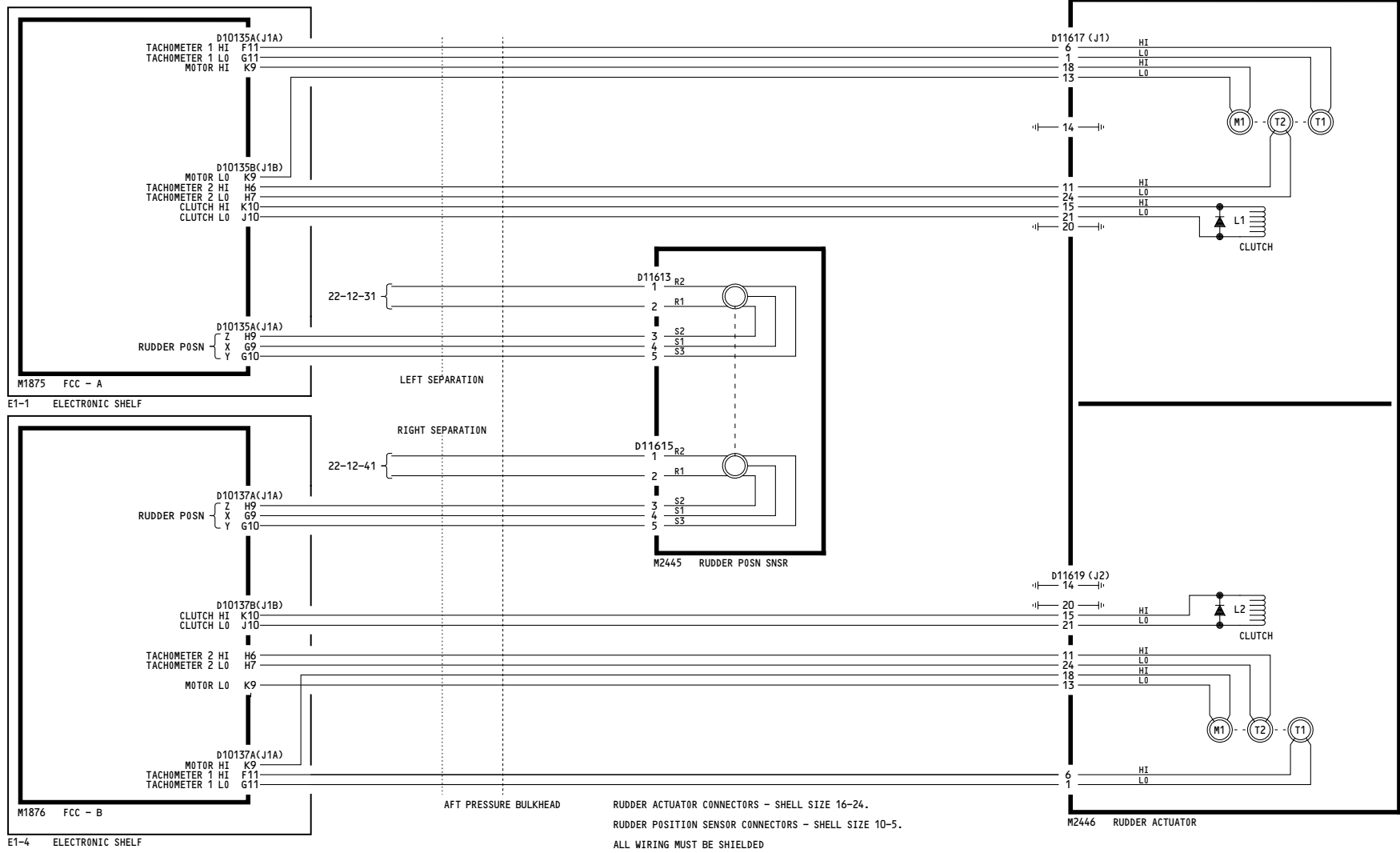
D280A203

22-11-81

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YL401-YL430, YM647-YM670

DFCS - RUDDER COMMAND AND CONTROL

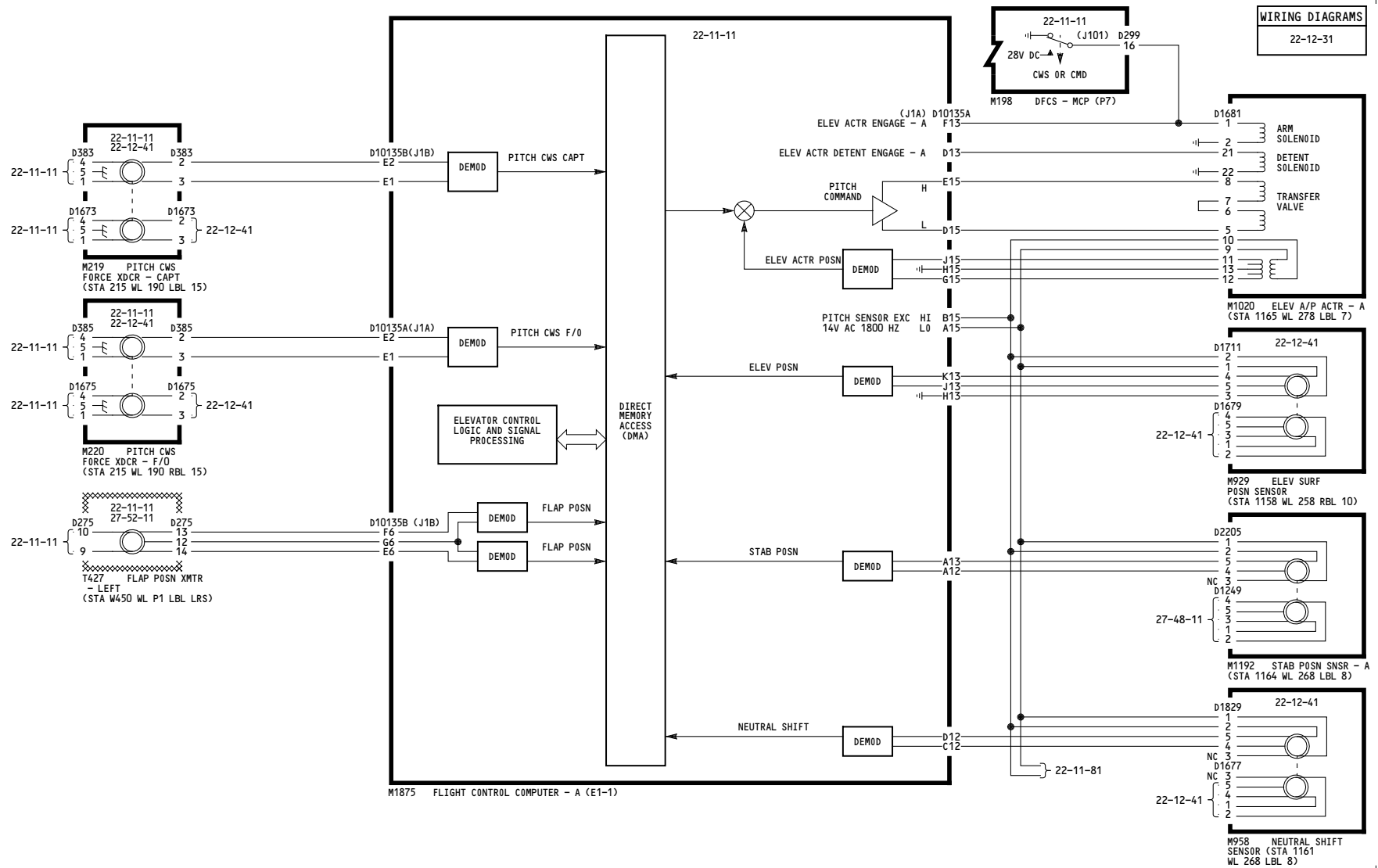
D280A203

22-11-81

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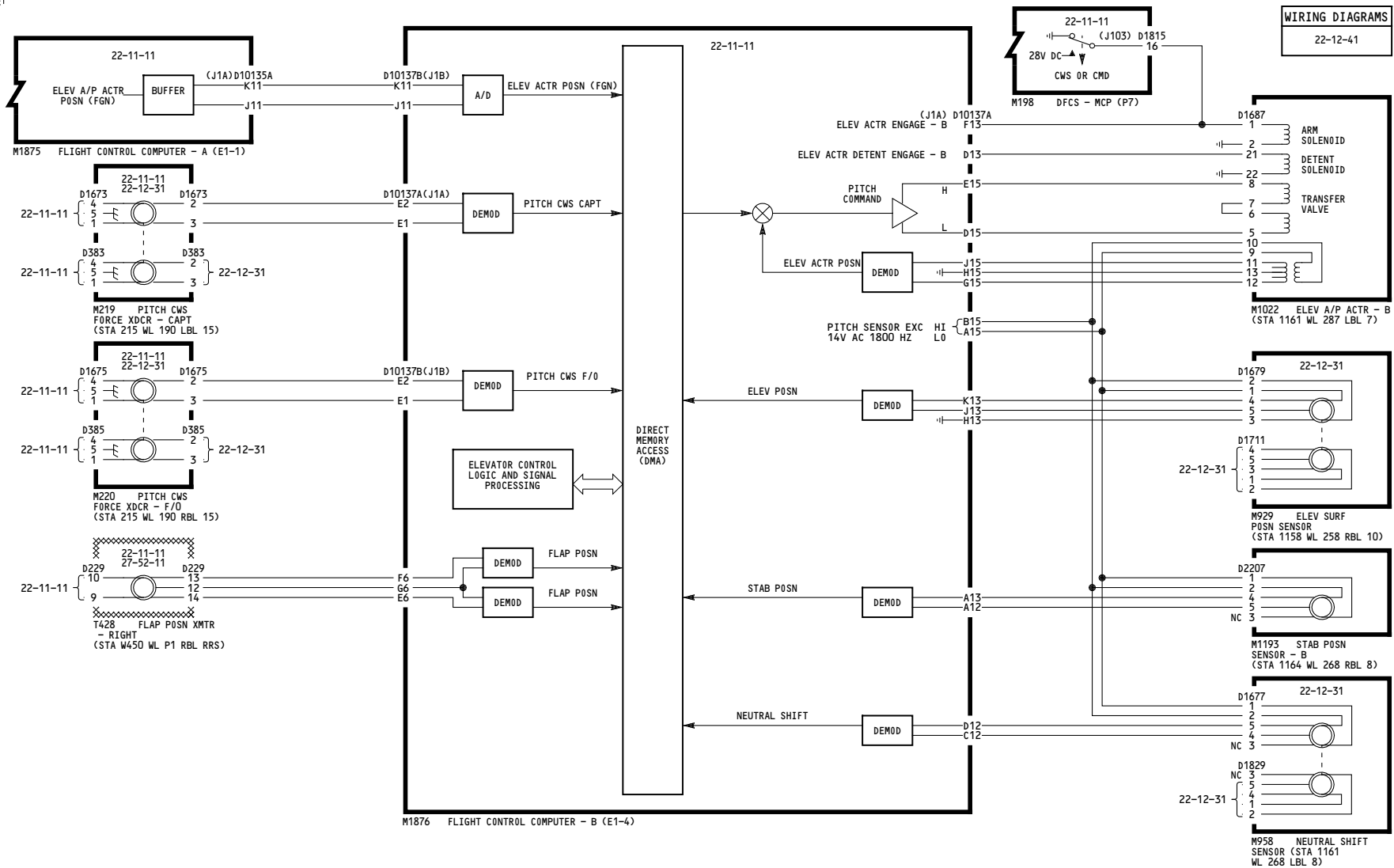


WIRING DIAGRAMS
22-12-31

<p>YK901-YM670</p>	<p>DFCS - A A/P PITCH SENSORS AND ACTUATORS</p> <p>D280A203</p>
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22-12-31

1



WIRING DIAGRAMS
22-12-41

YC001-YC030

DFCS - B A/P PITCH SENSORS AND ACTUATORS

D280A203

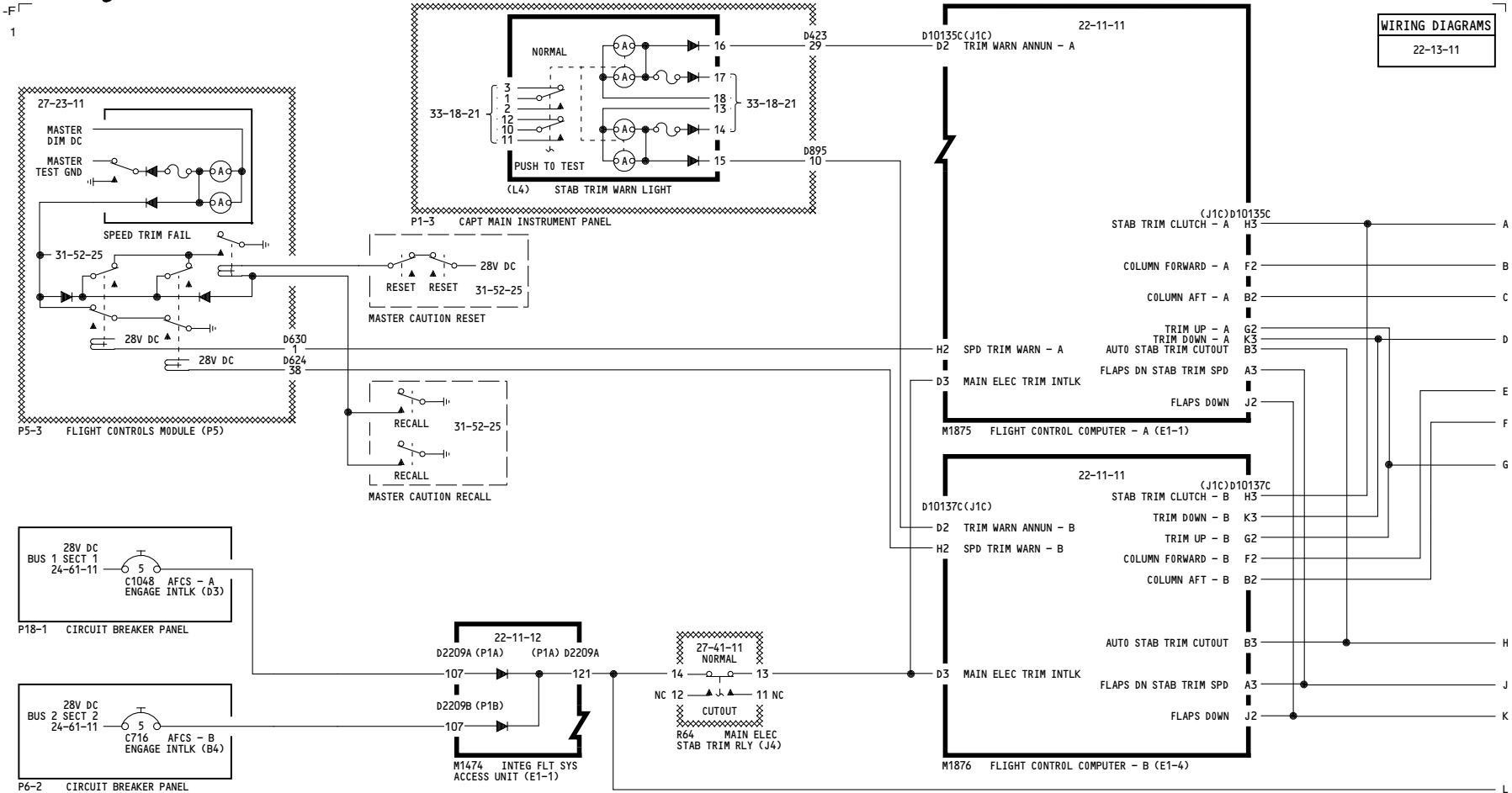
22-12-41

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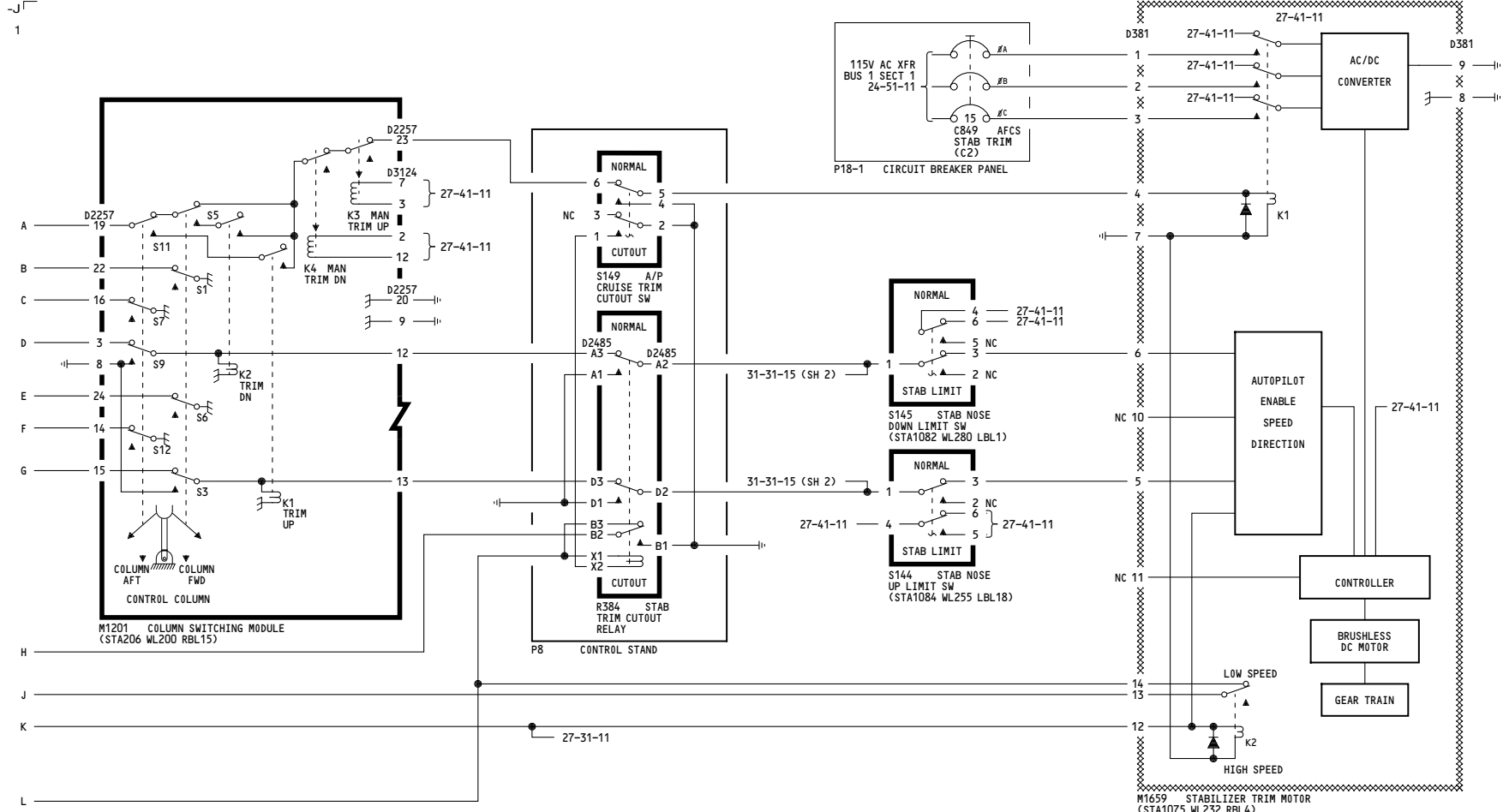
WIRING DIAGRAMS
22-13-11



<p>YC001-YC030</p>	<p>DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p>D280A203</p>
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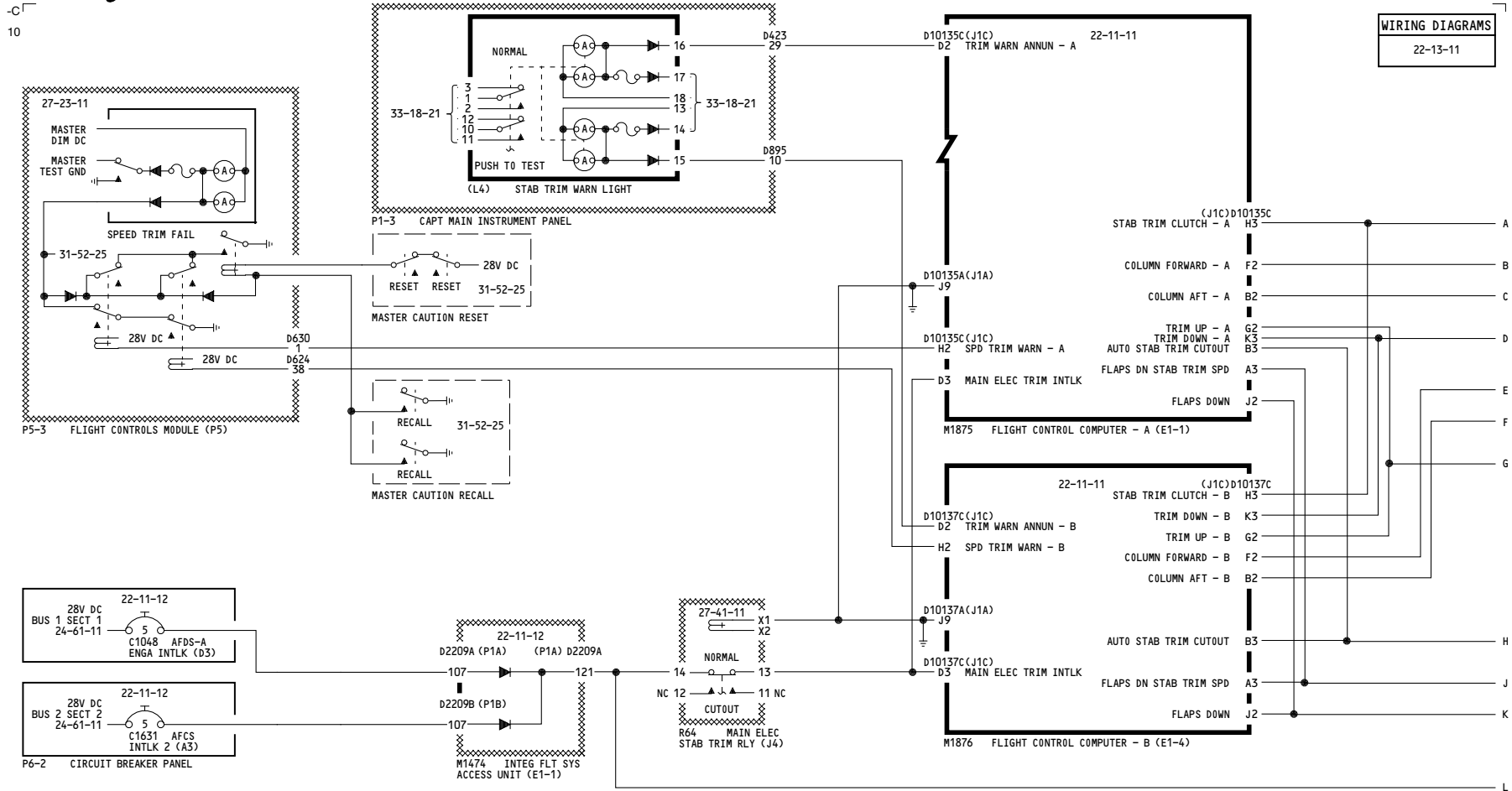
22-13-11

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<p>YC001-YC030</p>	<p>DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p>D280A203</p>
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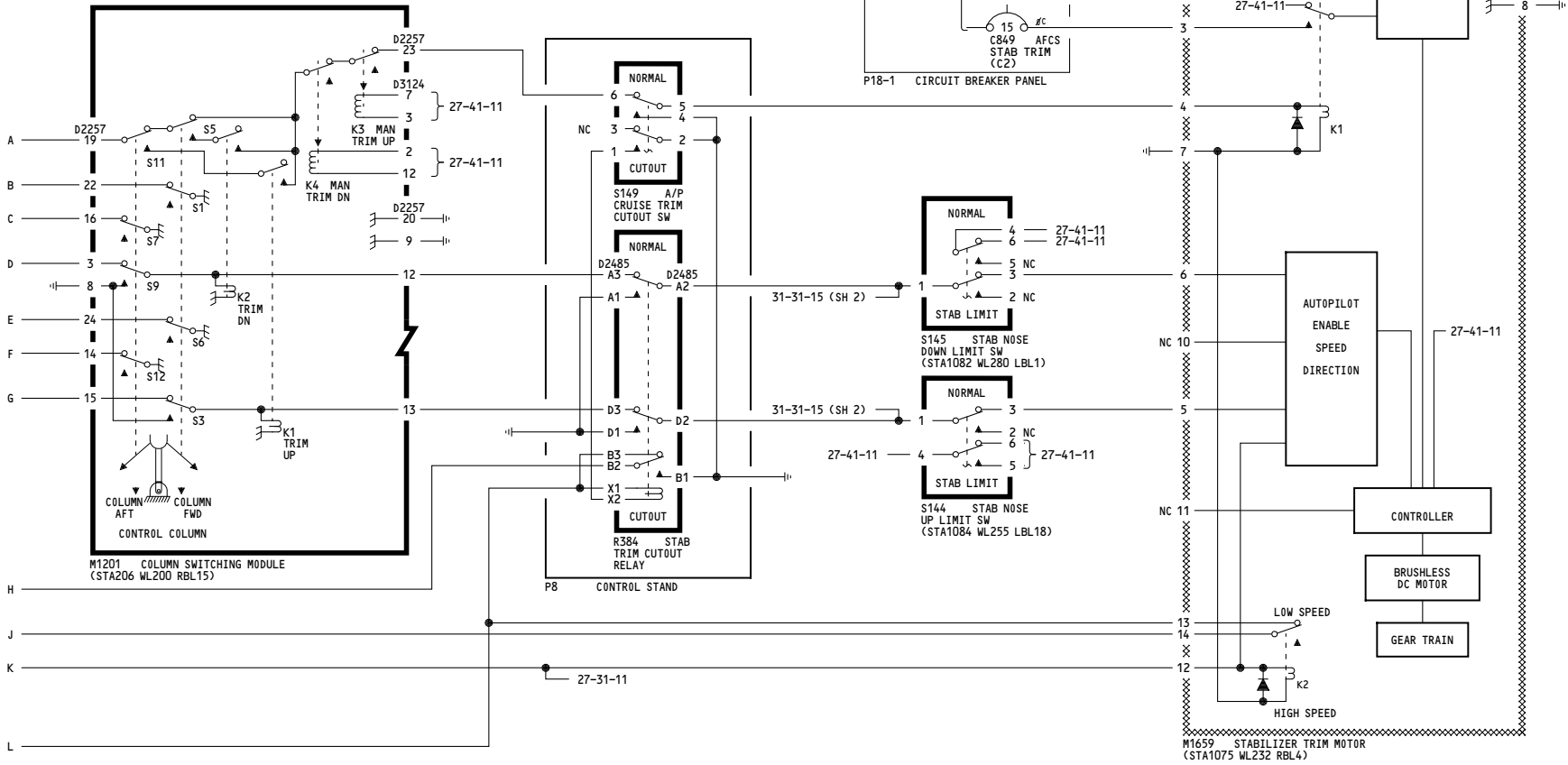
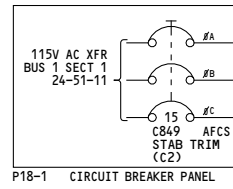
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YK901-YK920	DFCS - A AND B SPEED AND STABILIZER TRIM D280A203
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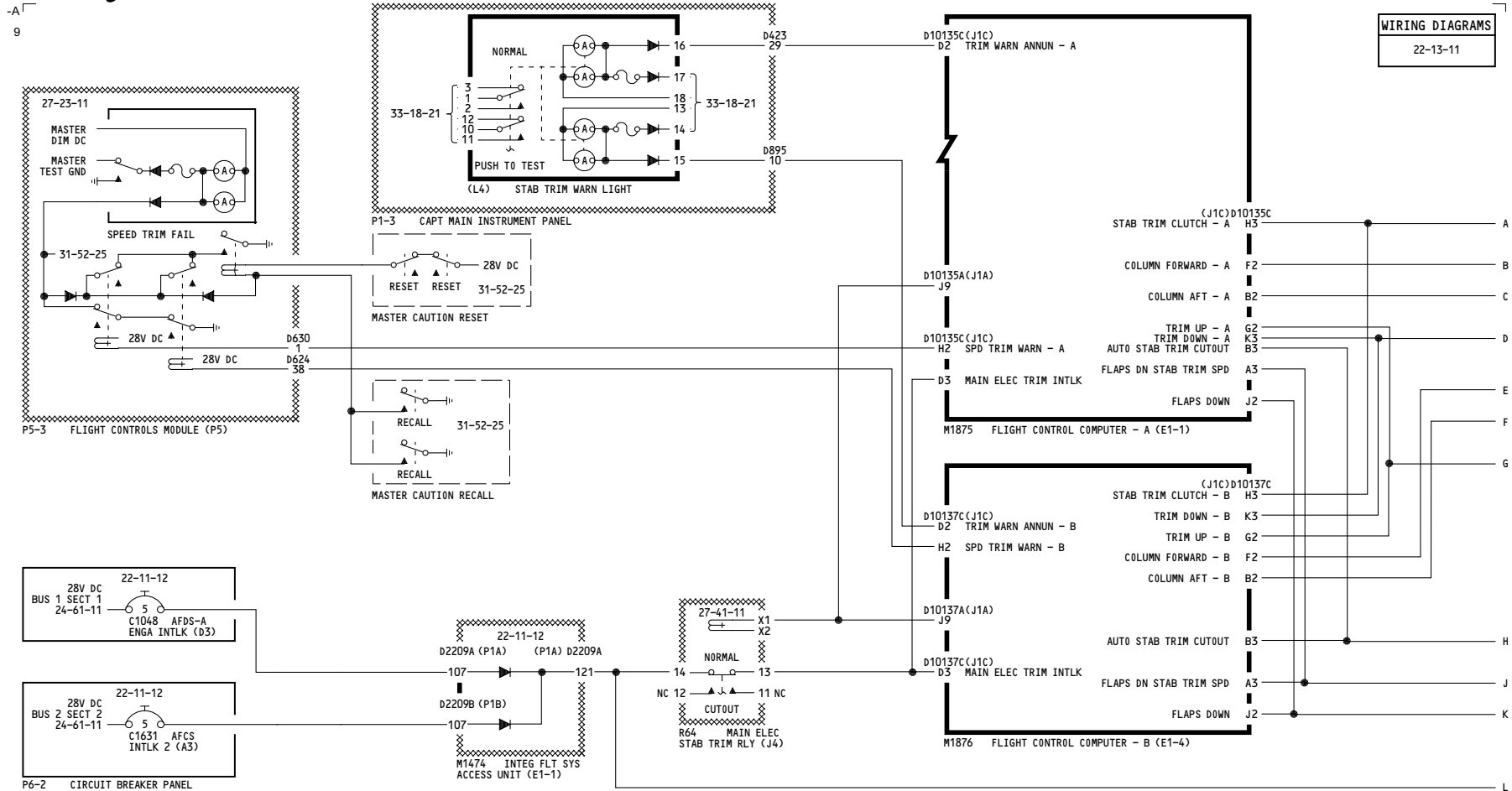
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WIRING DIAGRAMS
22-13-11
27-41-11



YK901-YK920	<p>DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p>D280A203</p>
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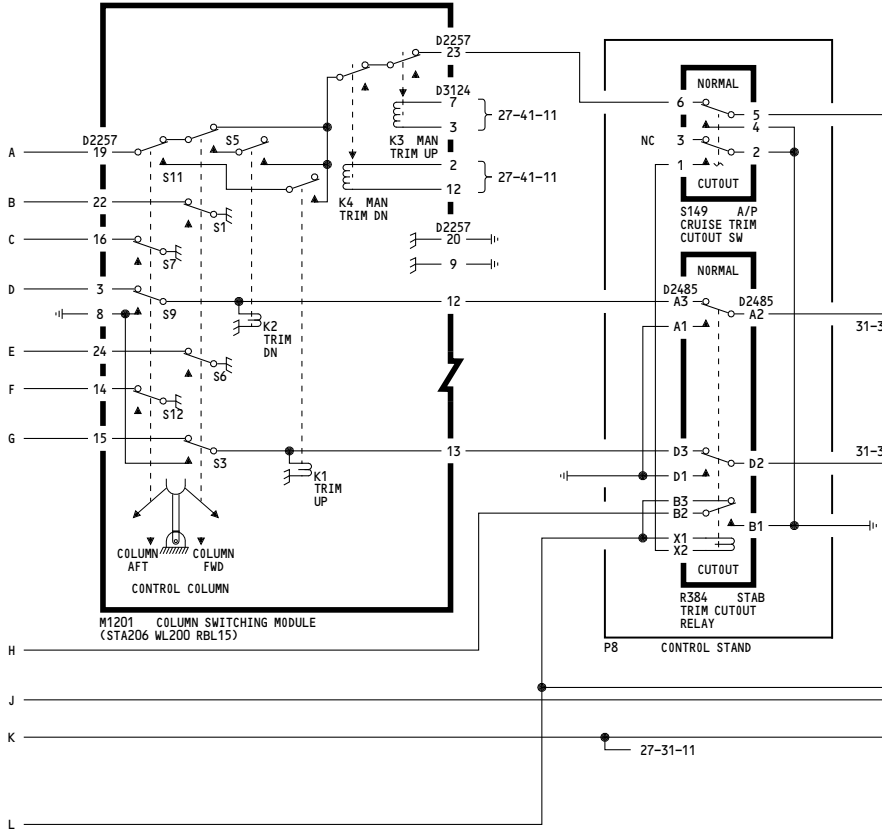
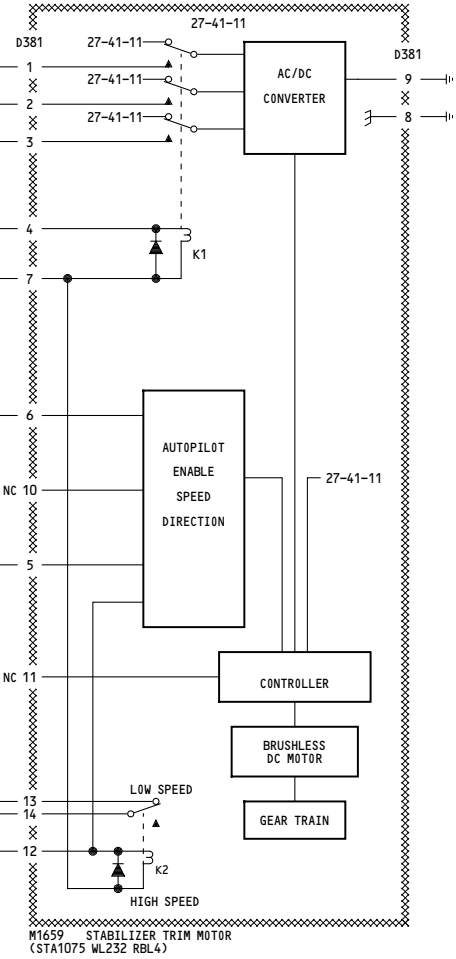
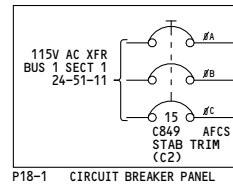
22-13-11



YL401-YL430	<p align="center">DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p align="center">D280A203</p>
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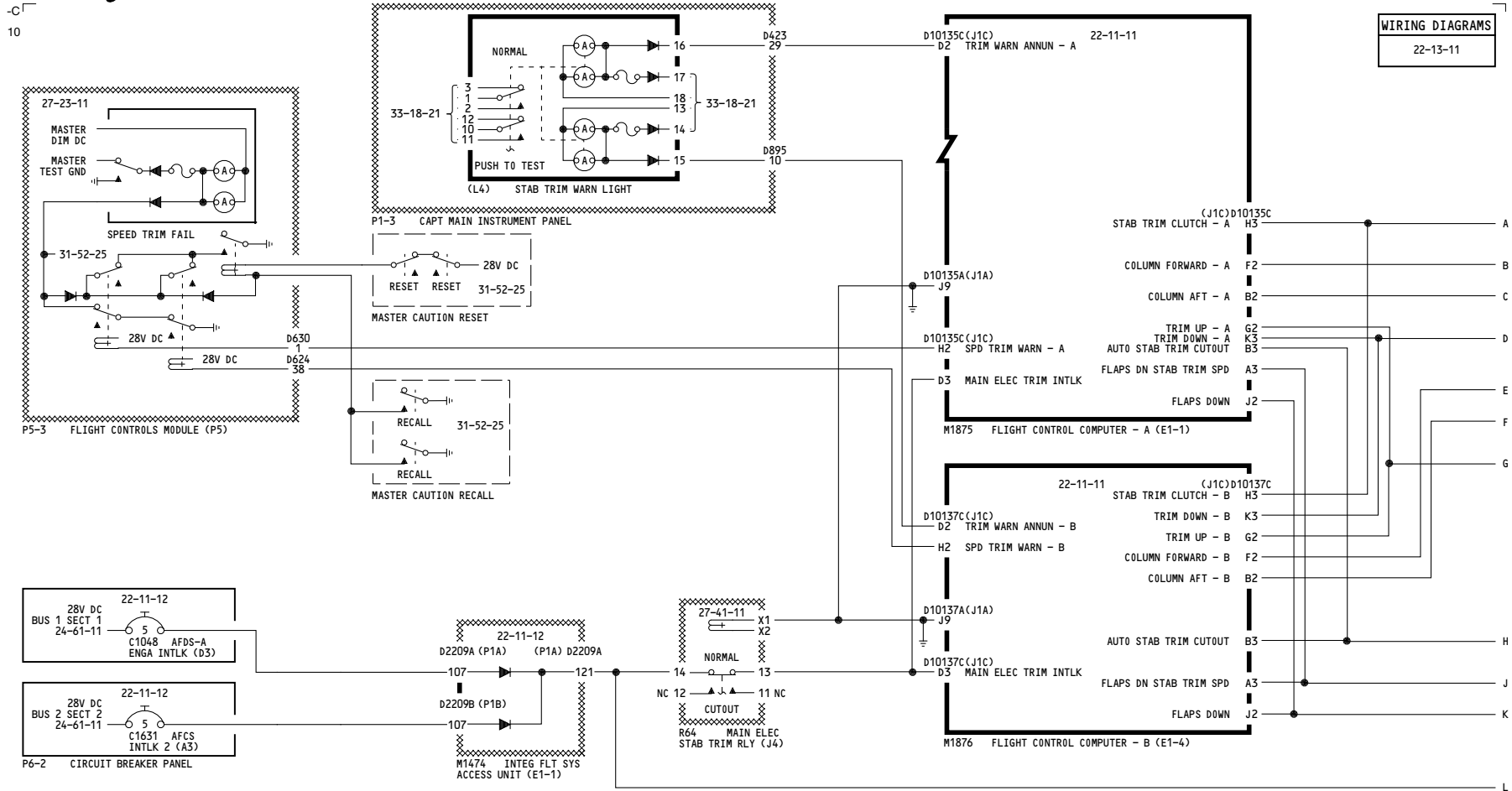
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WIRING DIAGRAMS
22-13-11
27-41-11



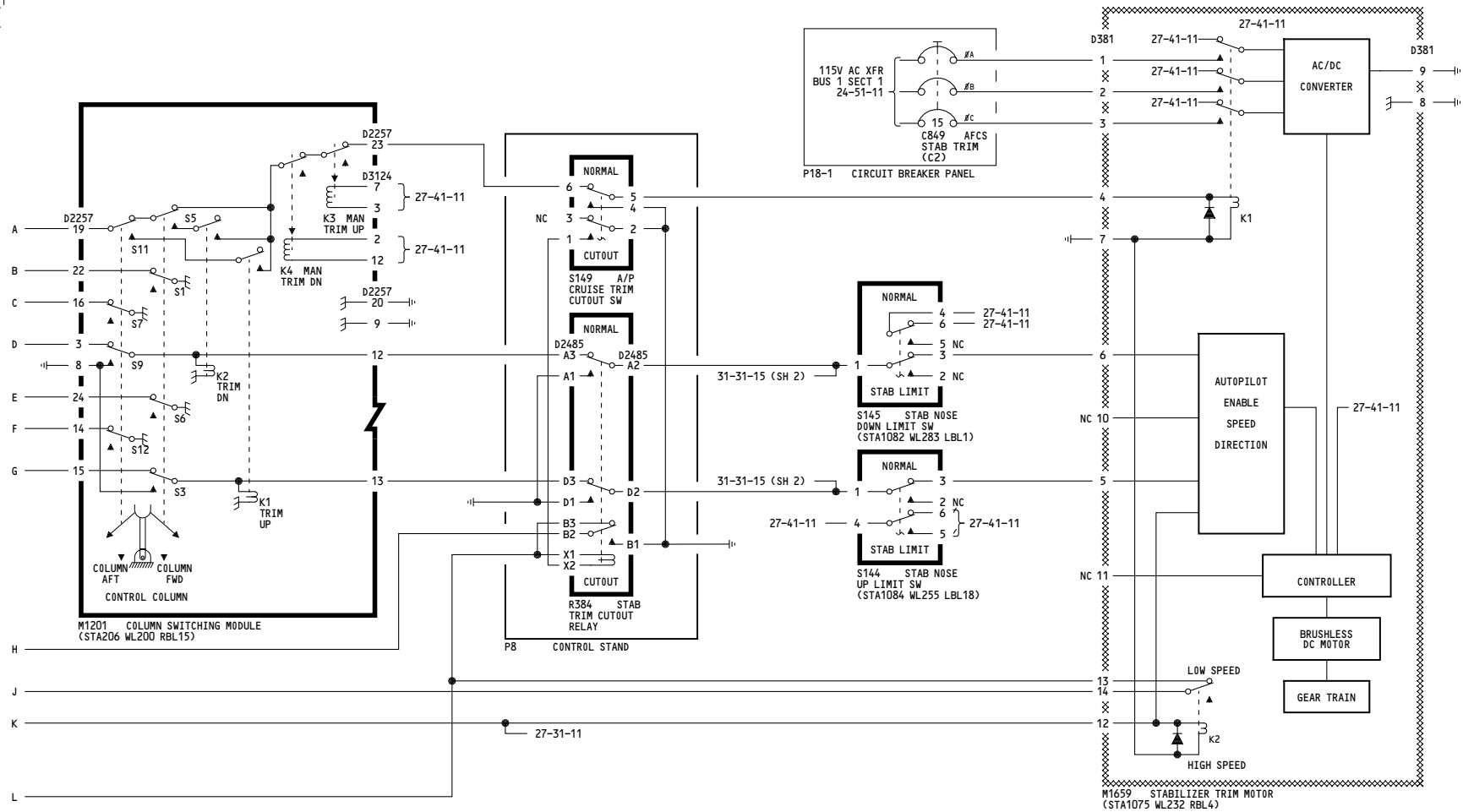
YL401-YL430	<p>DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p>D280A203</p>
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22-13-11



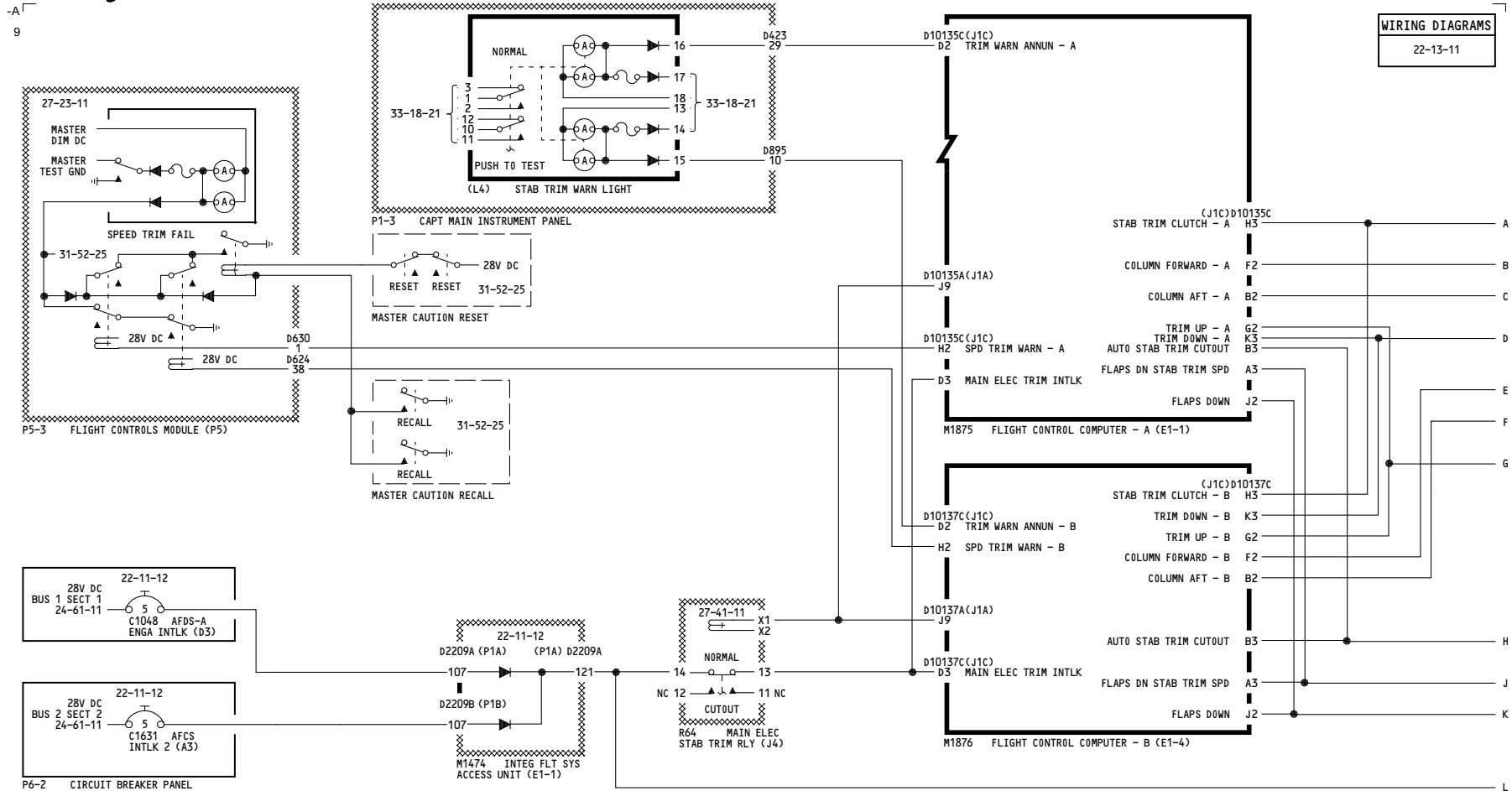
<p>YM643-YM646</p>	<p>DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p>D280A203</p>
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-A
4



<p>YM643-YM646</p>	<p>DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p>D280A203</p>
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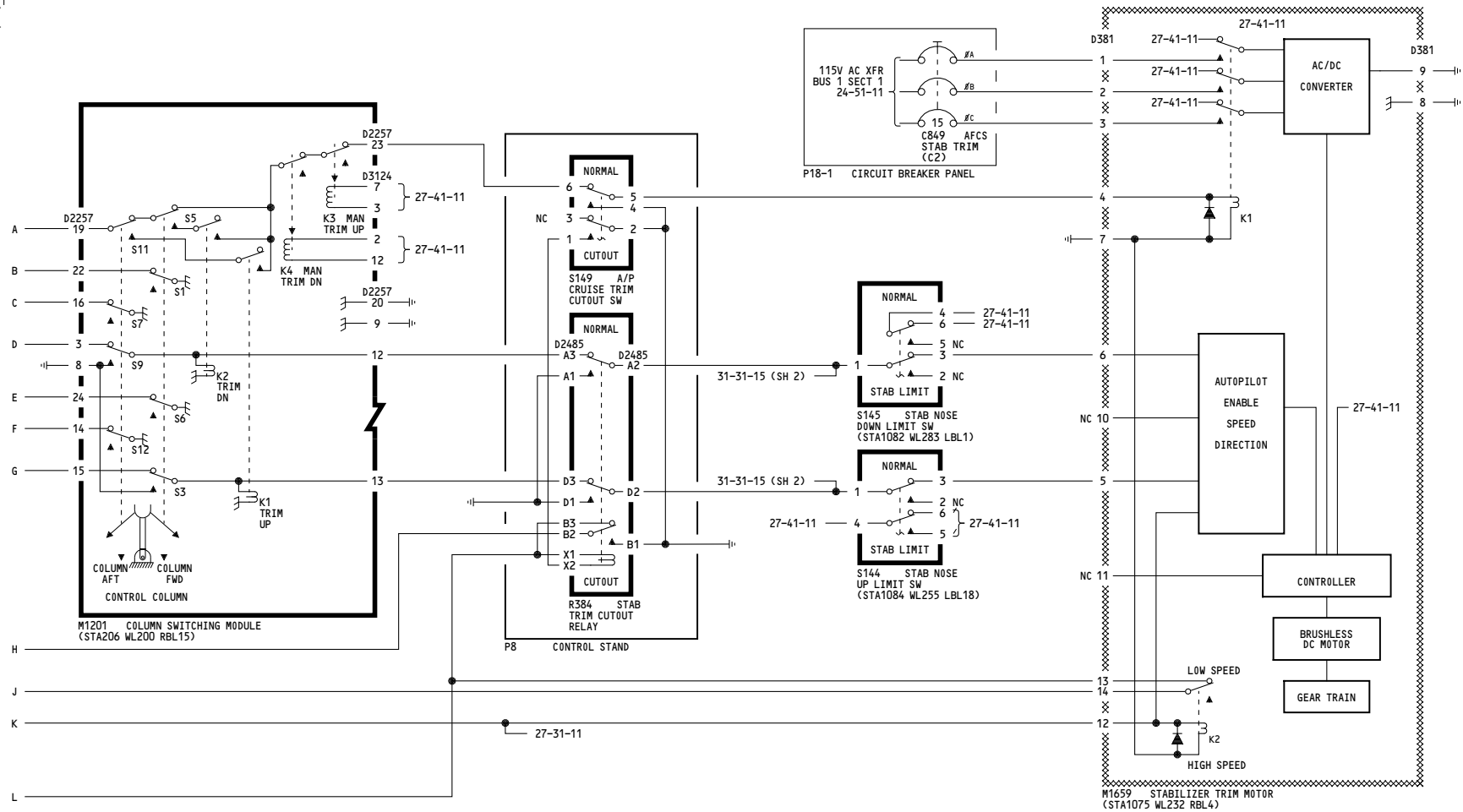
22-13-11



<p>YM647-YM670</p>	<p>DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p>D280A203</p>
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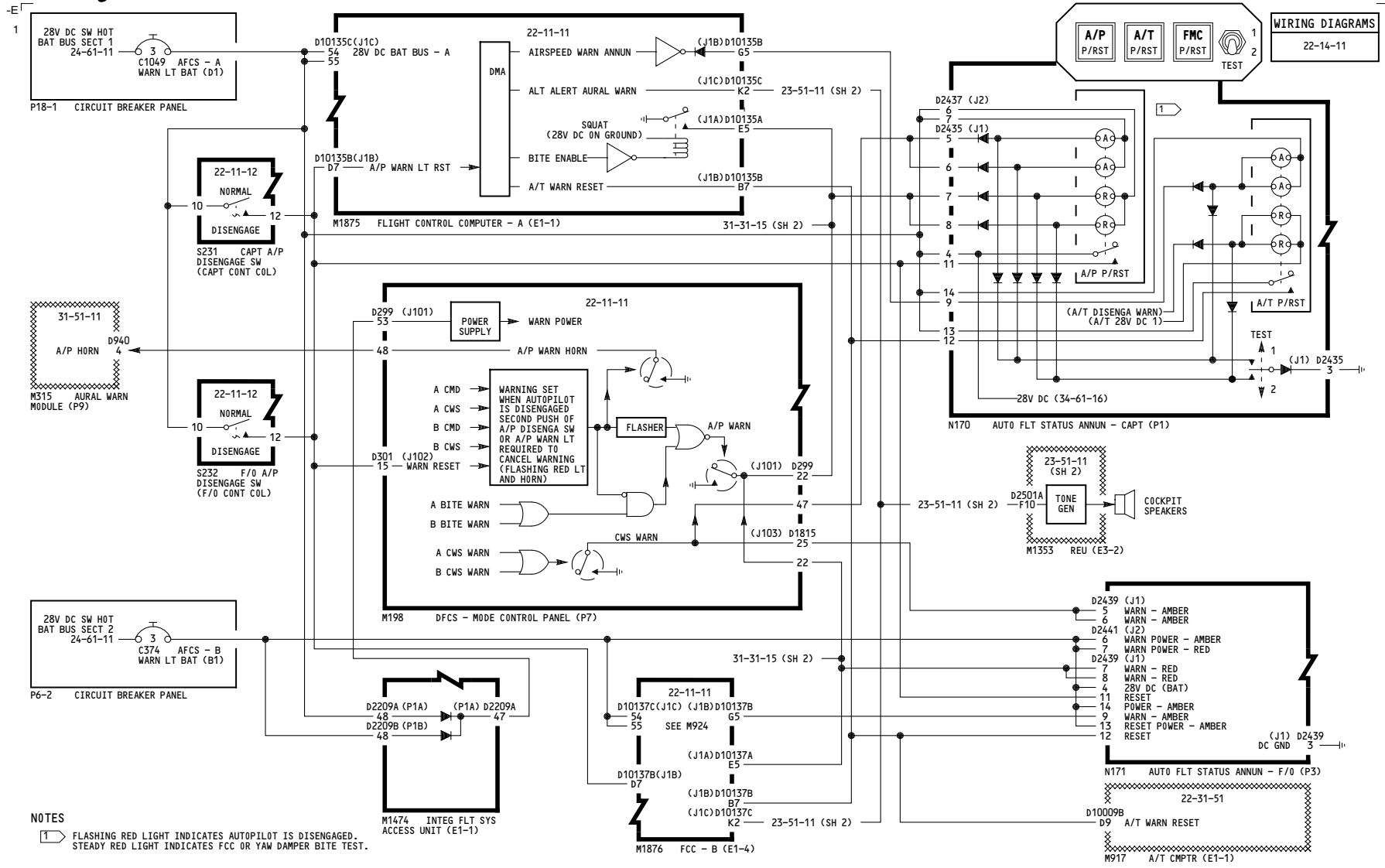
22-13-11

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4



<p>YM647-YM670</p>	<p>DFCS - A AND B SPEED AND STABILIZER TRIM</p> <p>D280A203</p>
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22-13-11

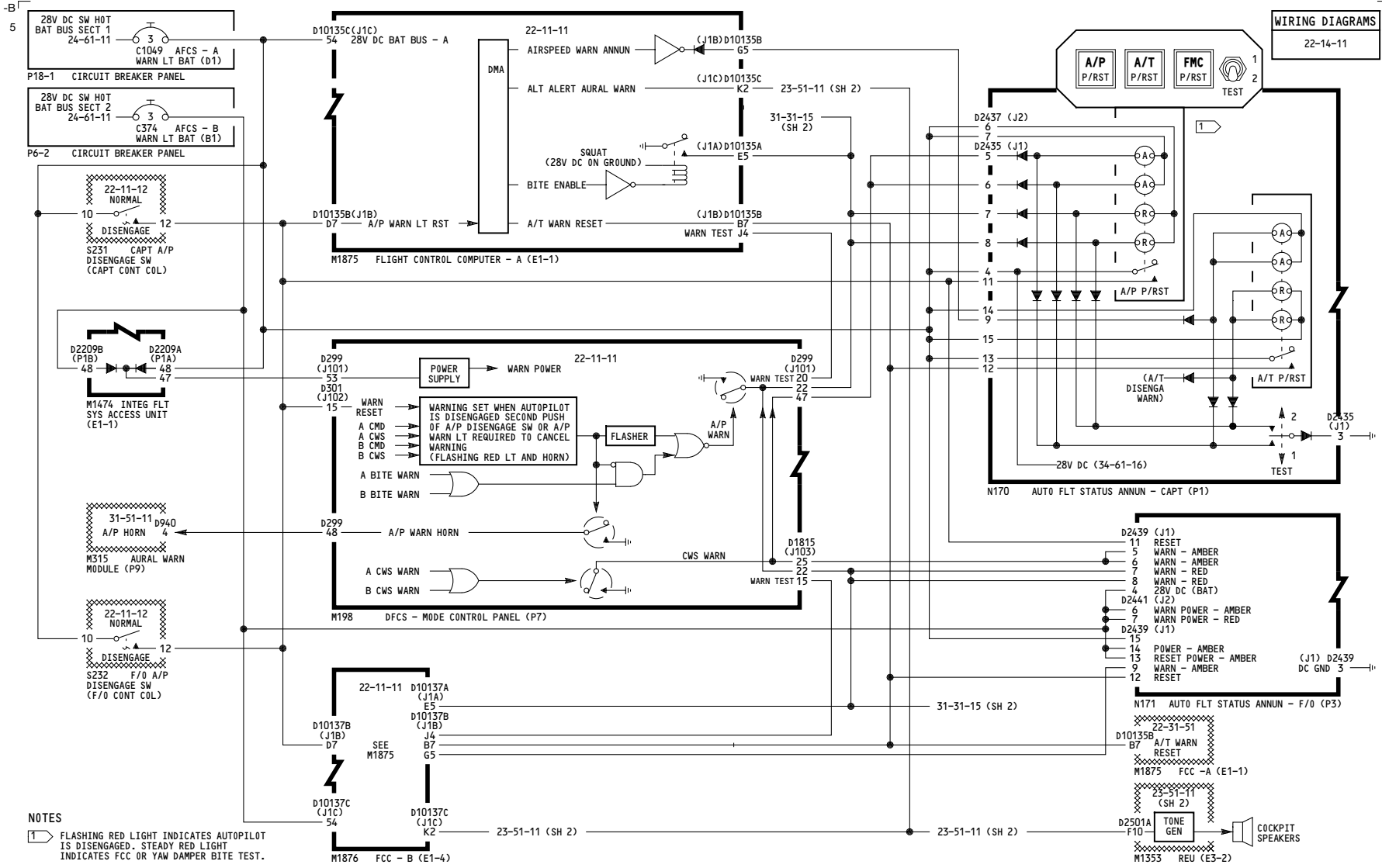


<p>YC001-YC030</p>	<p>DFCS - ANNUNCIATION AND WARNING</p> <p>D280A203</p>
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22-14-11

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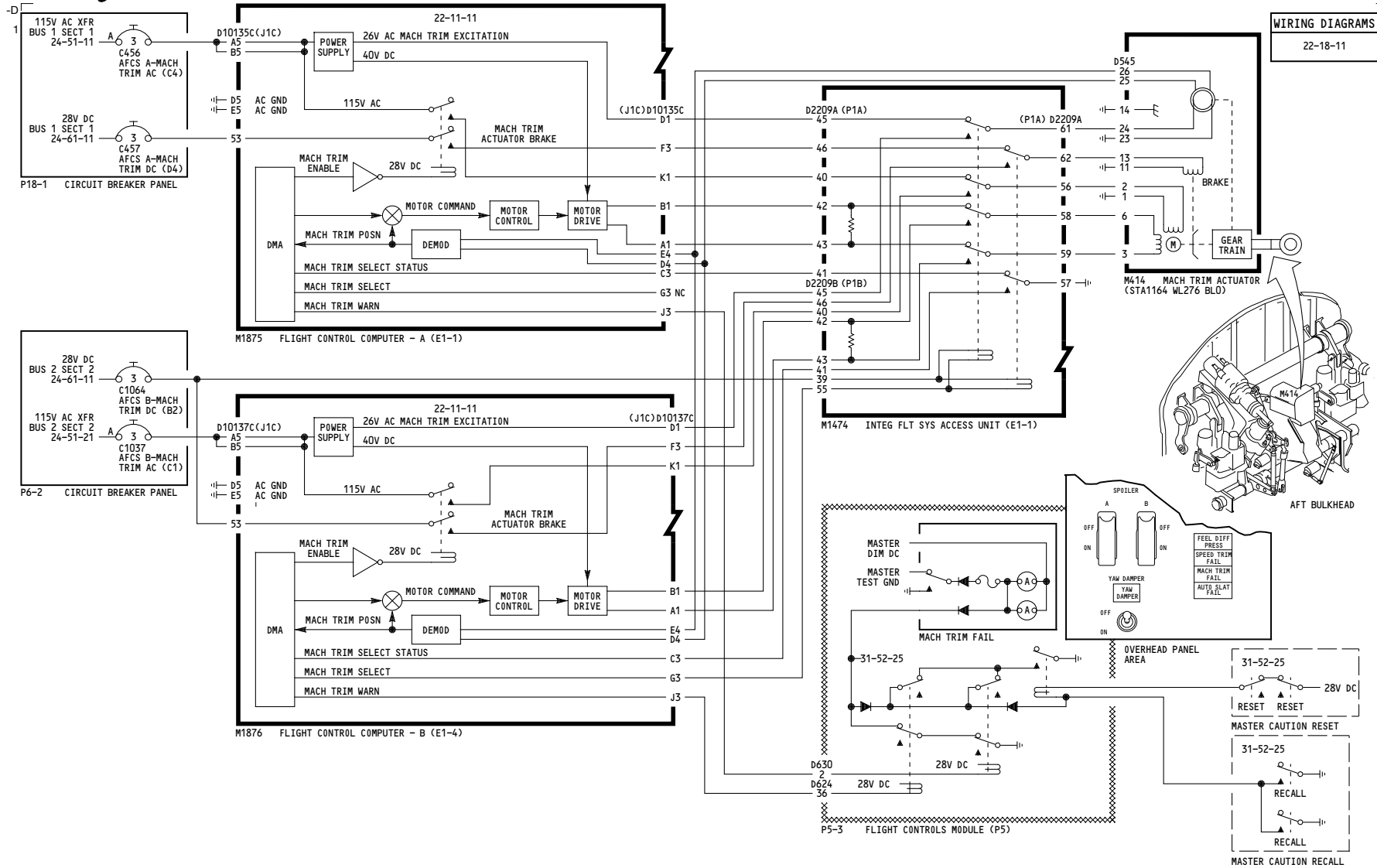


NOTES
 1 FLASHING RED LIGHT INDICATES AUTOPILOT IS DISENGAGED. STEADY RED LIGHT INDICATES FCC OR YAW DAMPER BITE TEST.

YK901-YM670	<p>DFCS - ANNUNCIATION AND WARNING</p> <p>D280A203</p>
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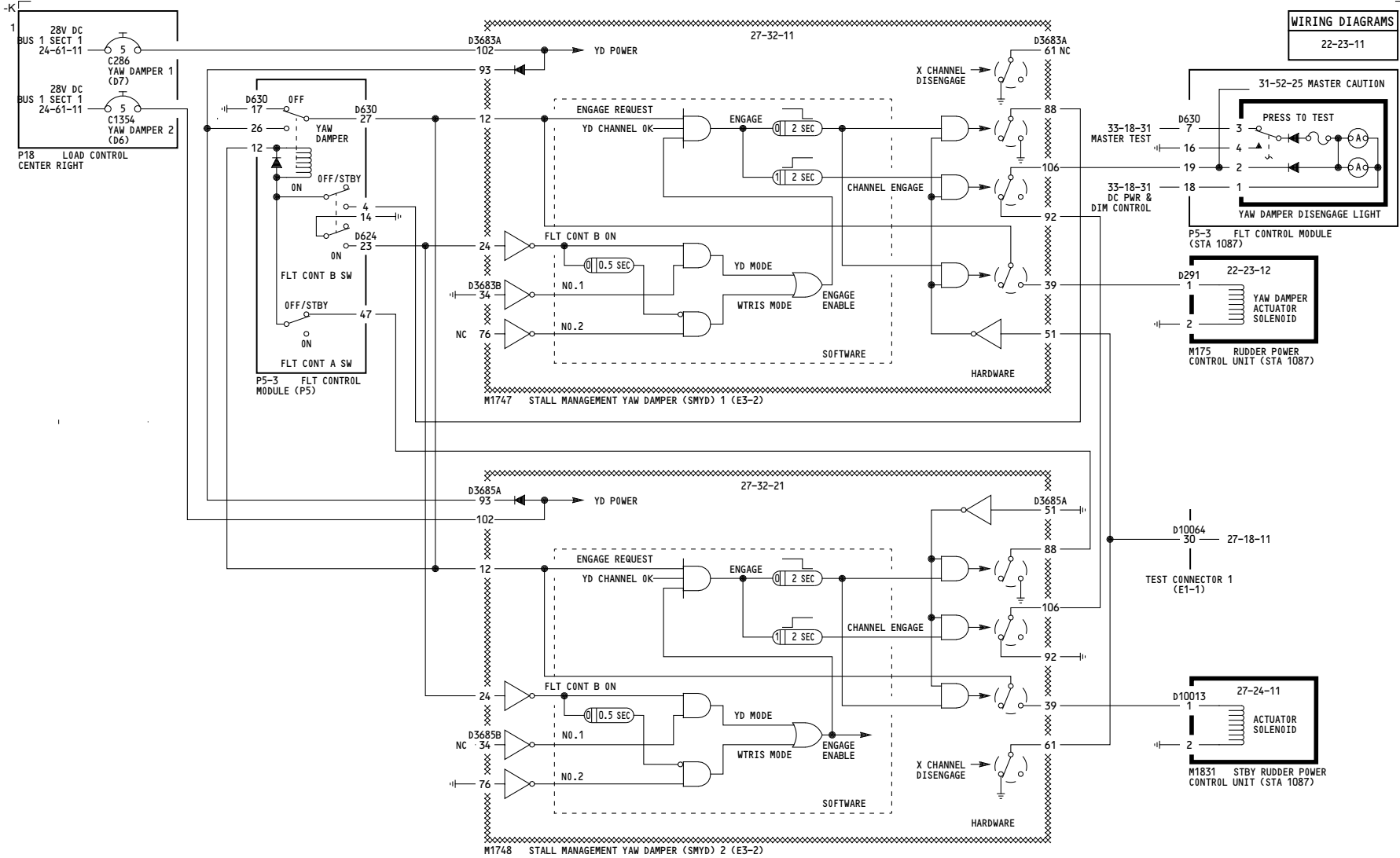
22-14-11

WIRING DIAGRAMS
22-18-11



ALL	DFCS - MACH TRIM
	D280A203

22-18-11



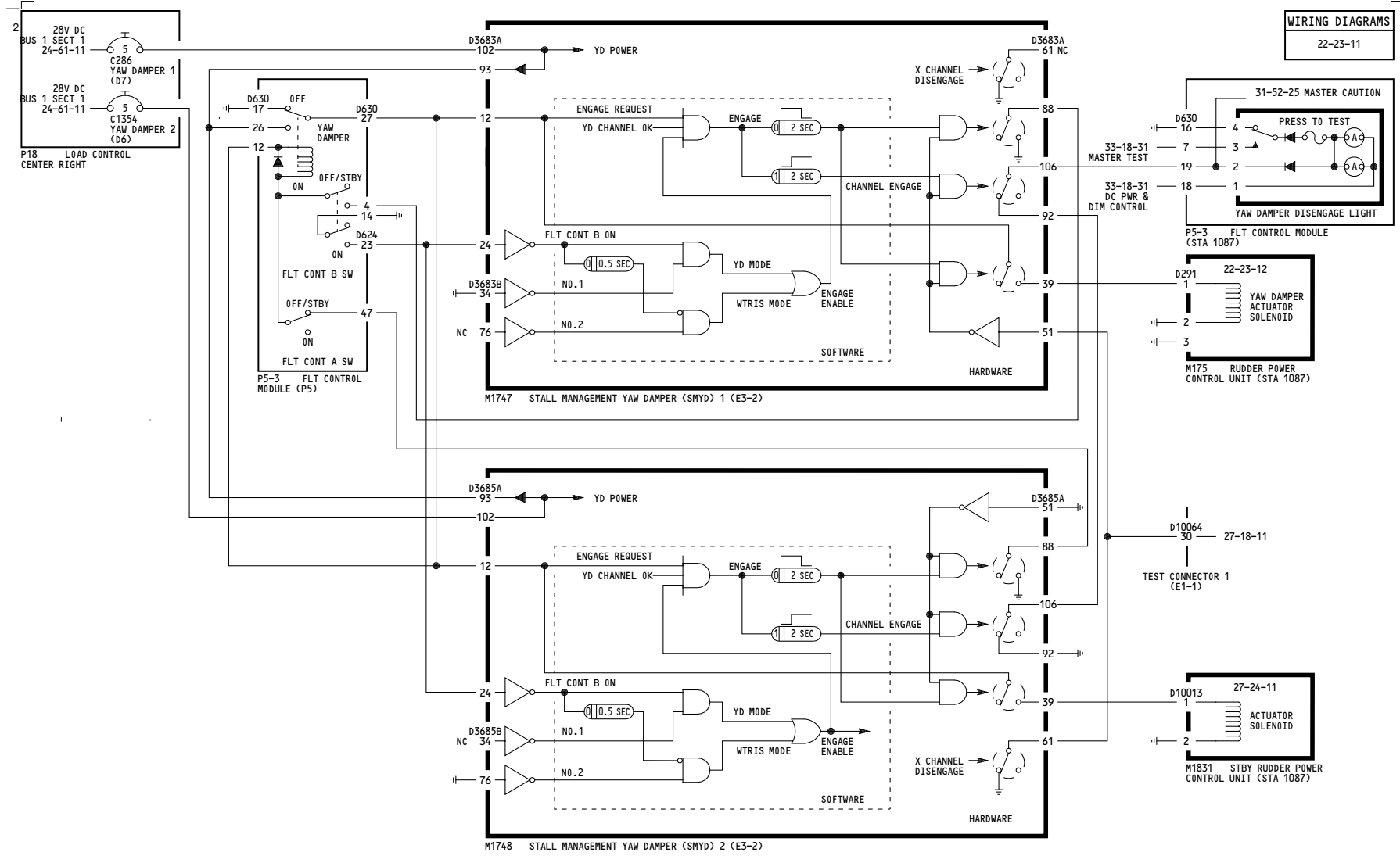
ALL	<p>YAW DAMPER ENGAGE INTERLOCKS</p> <p>D280A203</p>
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WIRING DIAGRAMS
22-23-11

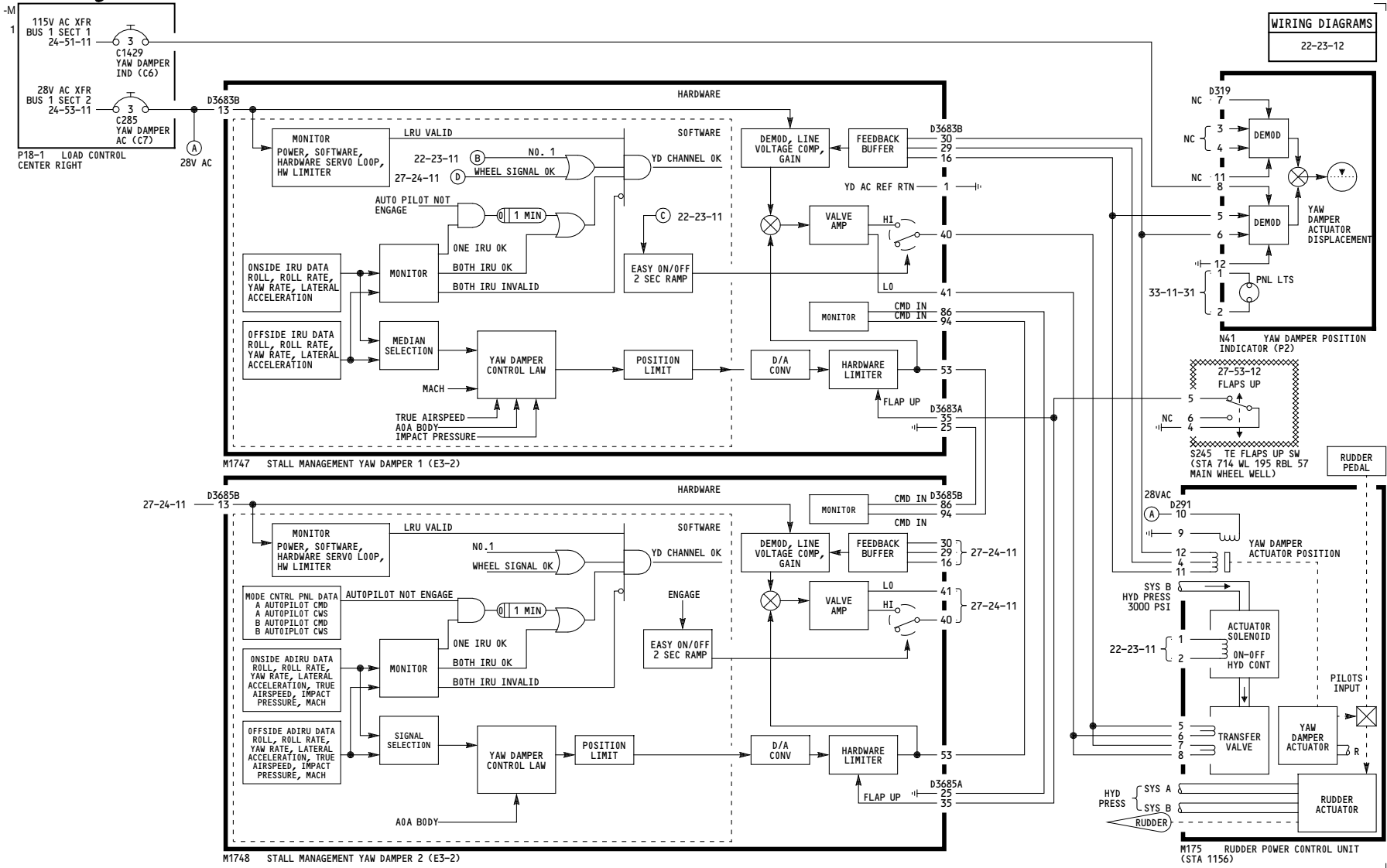


<p>YC001-YC030</p>	<p>YAW DAMPER ENGAGE INTERLOCKS</p> <p>Incorporates 27-1253 R03</p> <p>D280A203</p>
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22-23-11

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YC001-YK912, YK918-YK919, YL401-YL429, YM643-YM652

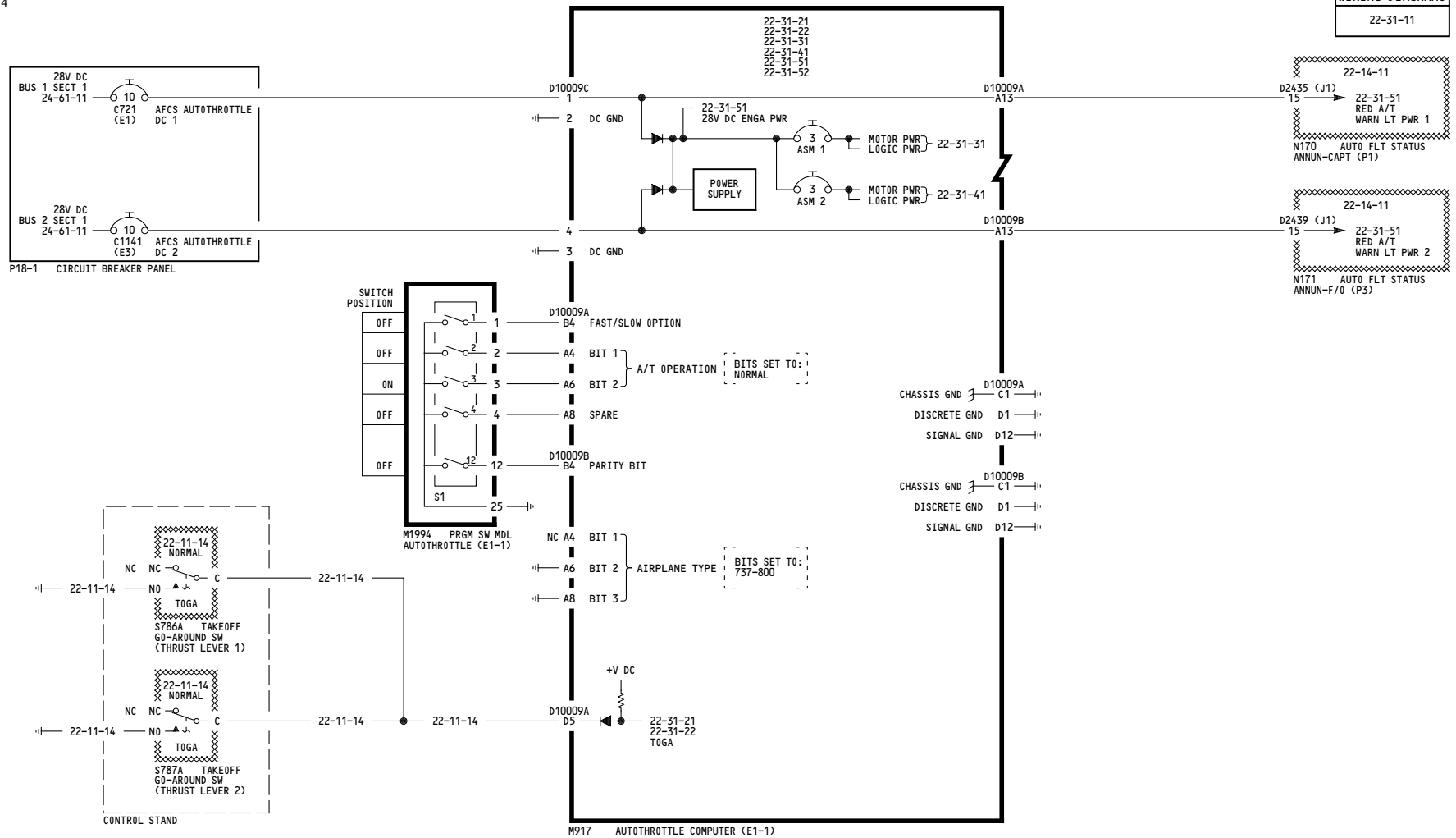
YAW DAMPER RUDDER CONTROL

D280A203

22-23-12

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4

WIRING DIAGRAMS
22-31-11

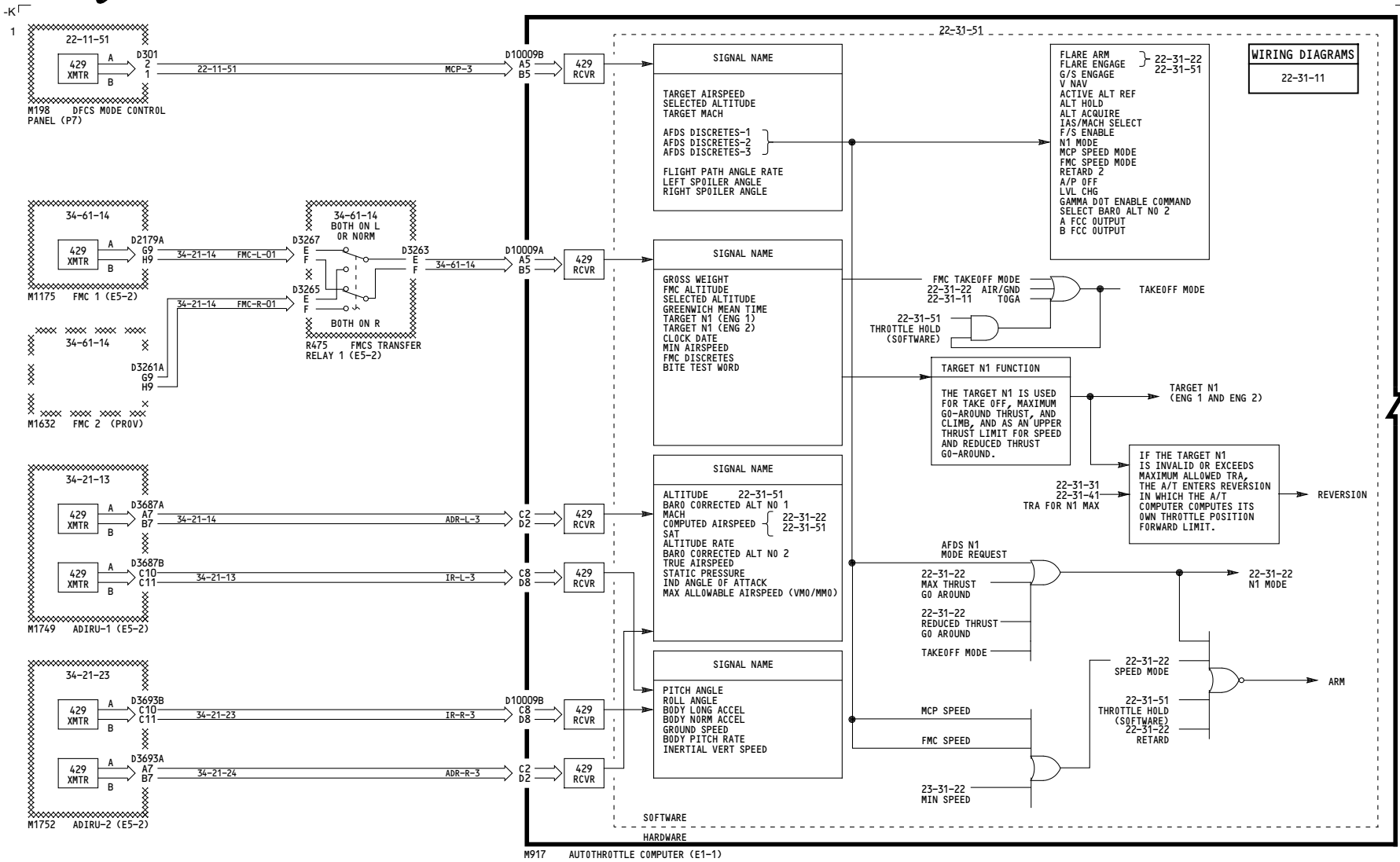


<p>YC001-YC030</p>	<p>AUTO THROTTLE SYSTEM - POWER, TOGA, PROGRAM PINS AND TEST BUSES</p> <p>D280A203</p>
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YC001-YC030

**AUTOHROTTLE SYSTEM -
DIGITAL INPUTS FROM
MCP, FMC, ADIRU**

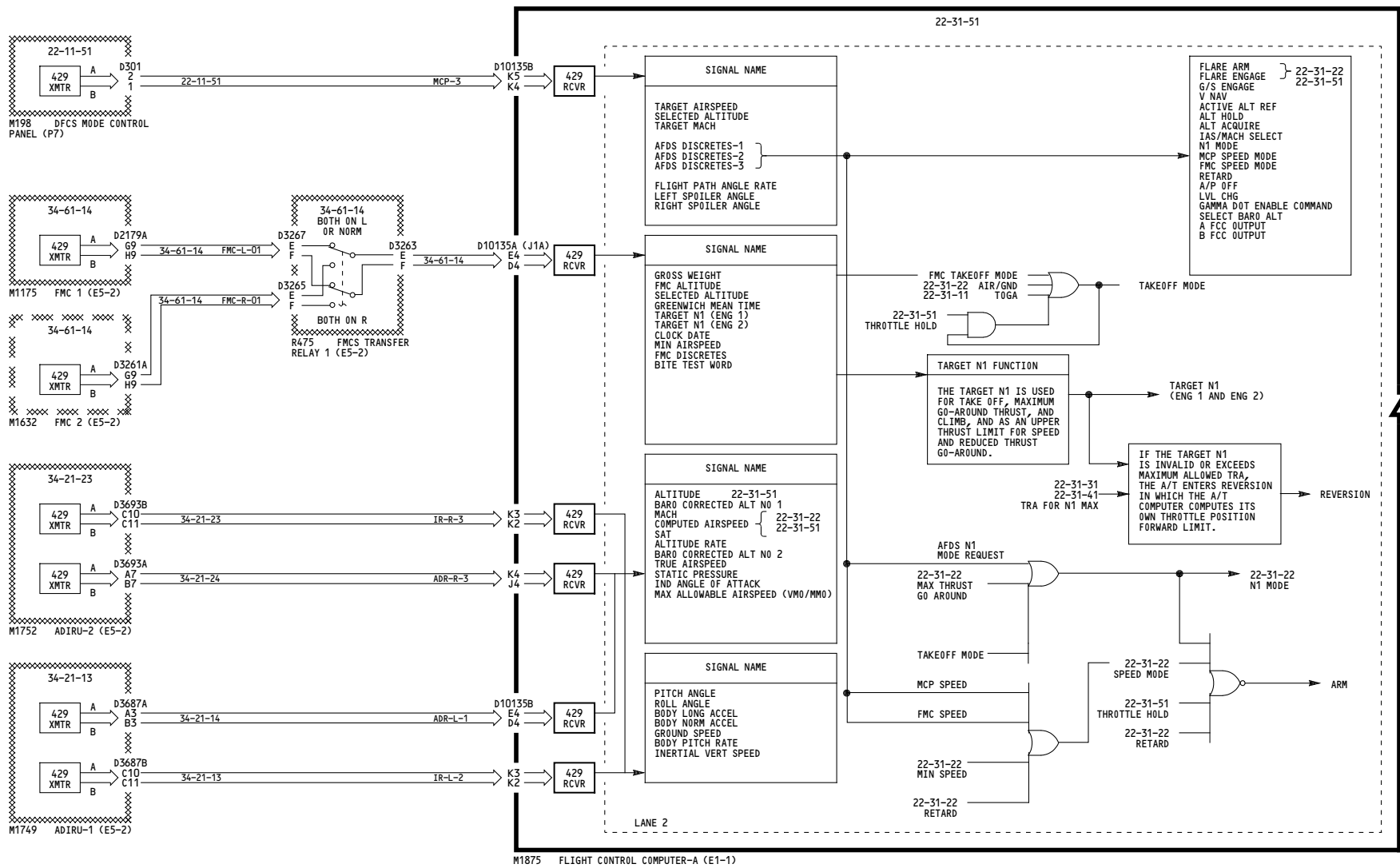
D280A203

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YC031-YK906

**AUTOTHROTTLE SYSTEM -
DIGITAL INPUTS FROM
MCP, FMC, ADIRU**

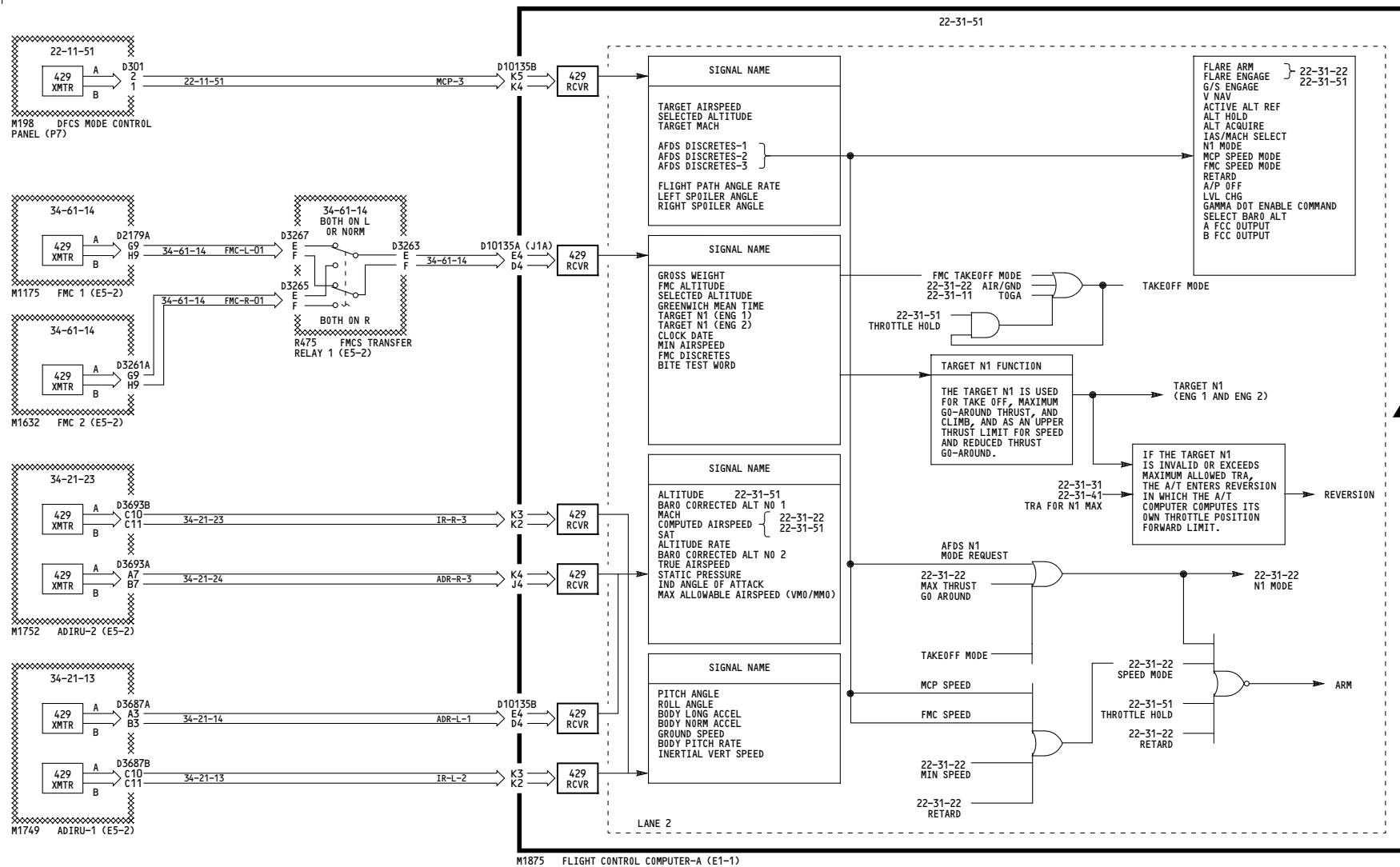
D280A203

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YK907-YL430

**AUTOTHROTTLE SYSTEM -
DIGITAL INPUTS FROM
MCP, FMC, ADIRU**

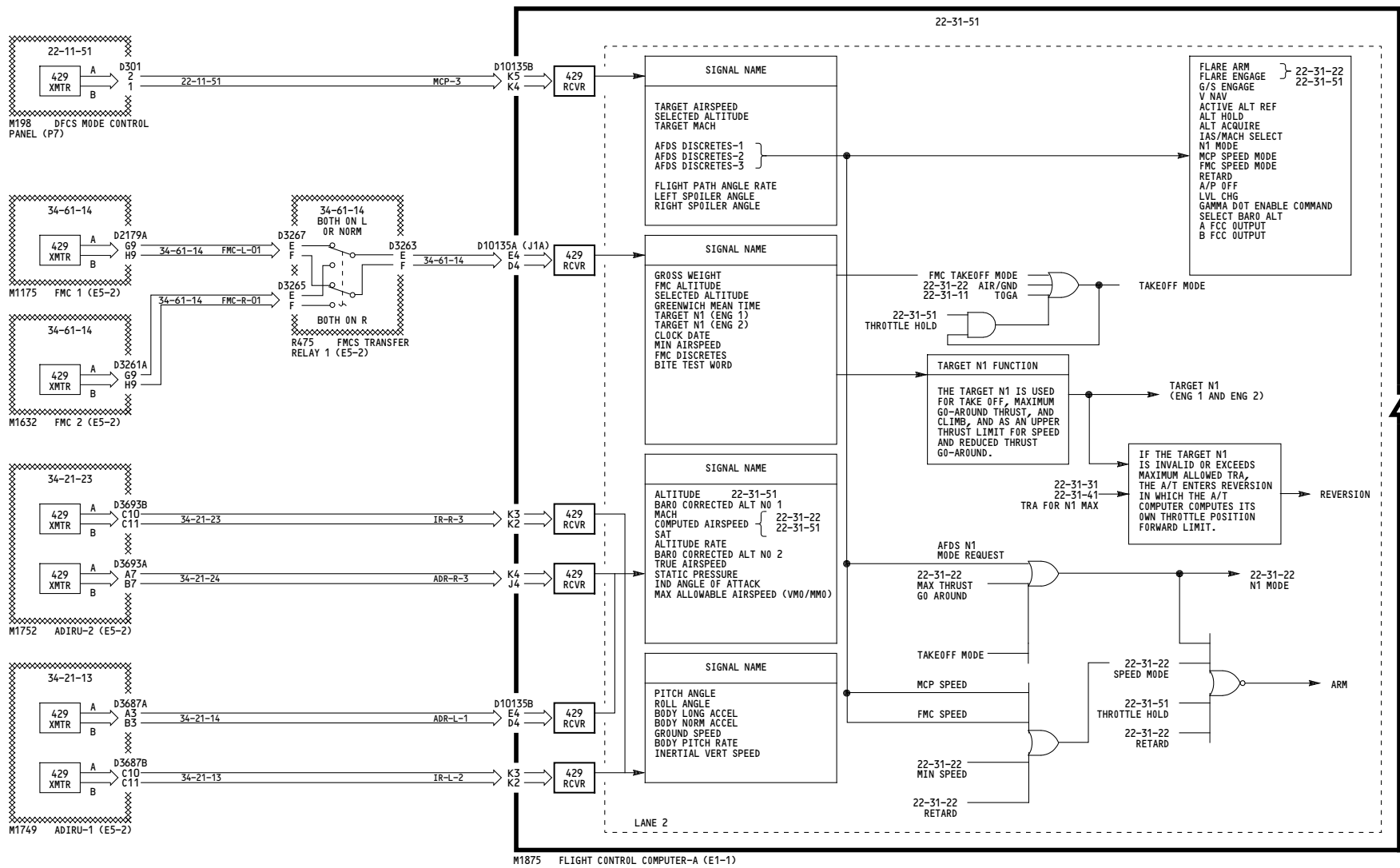
D280A203

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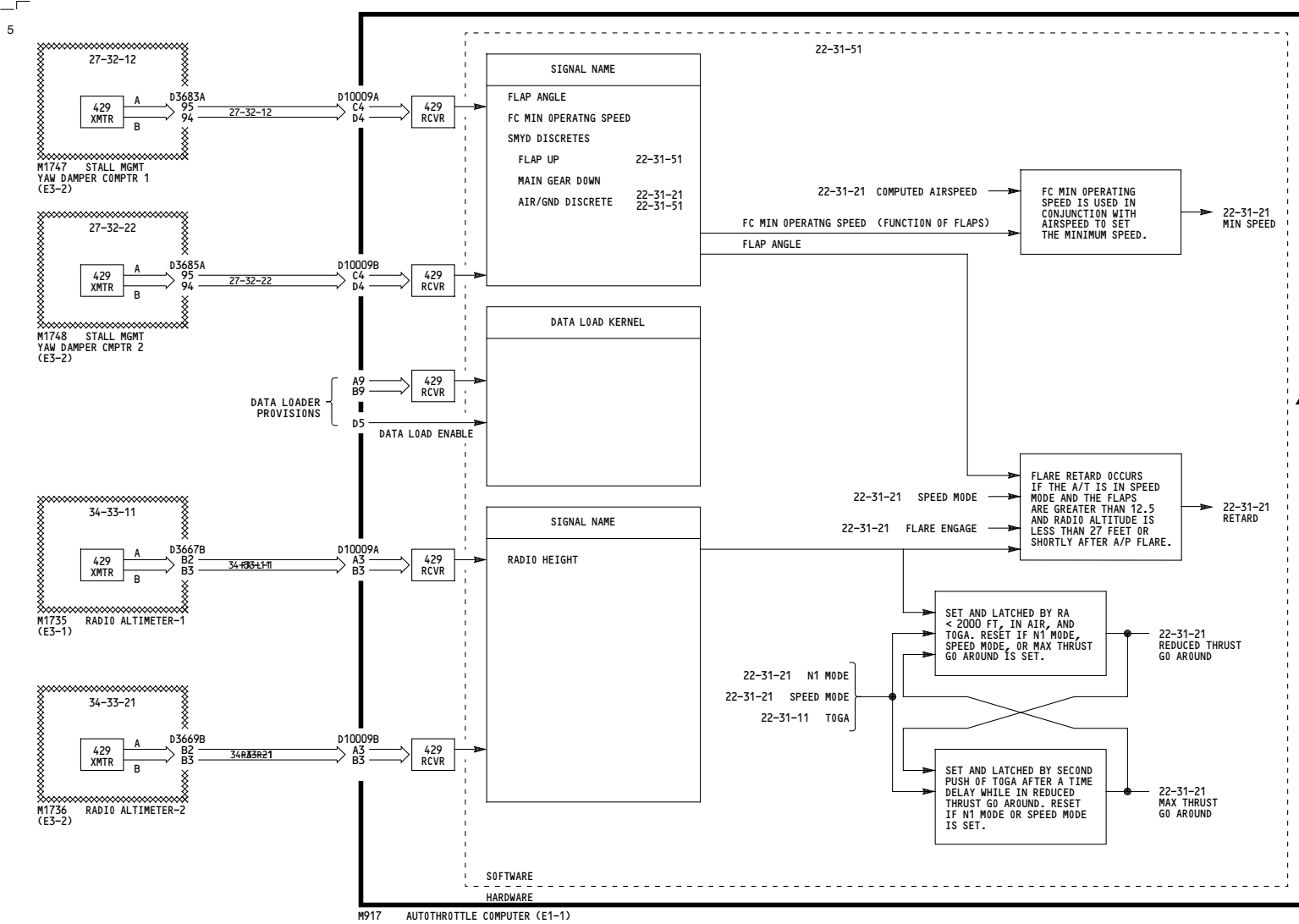
M1875 FLIGHT CONTROL COMPUTER-A (E1-1)

YM643-YM670

AUTOTHROTTLE SYSTEM - DIGITAL INPUTS FROM MCP, FMC, ADIRU

D280A203

22-31-21



M917 AUTOTHROTTLE COMPUTER (E1-1)

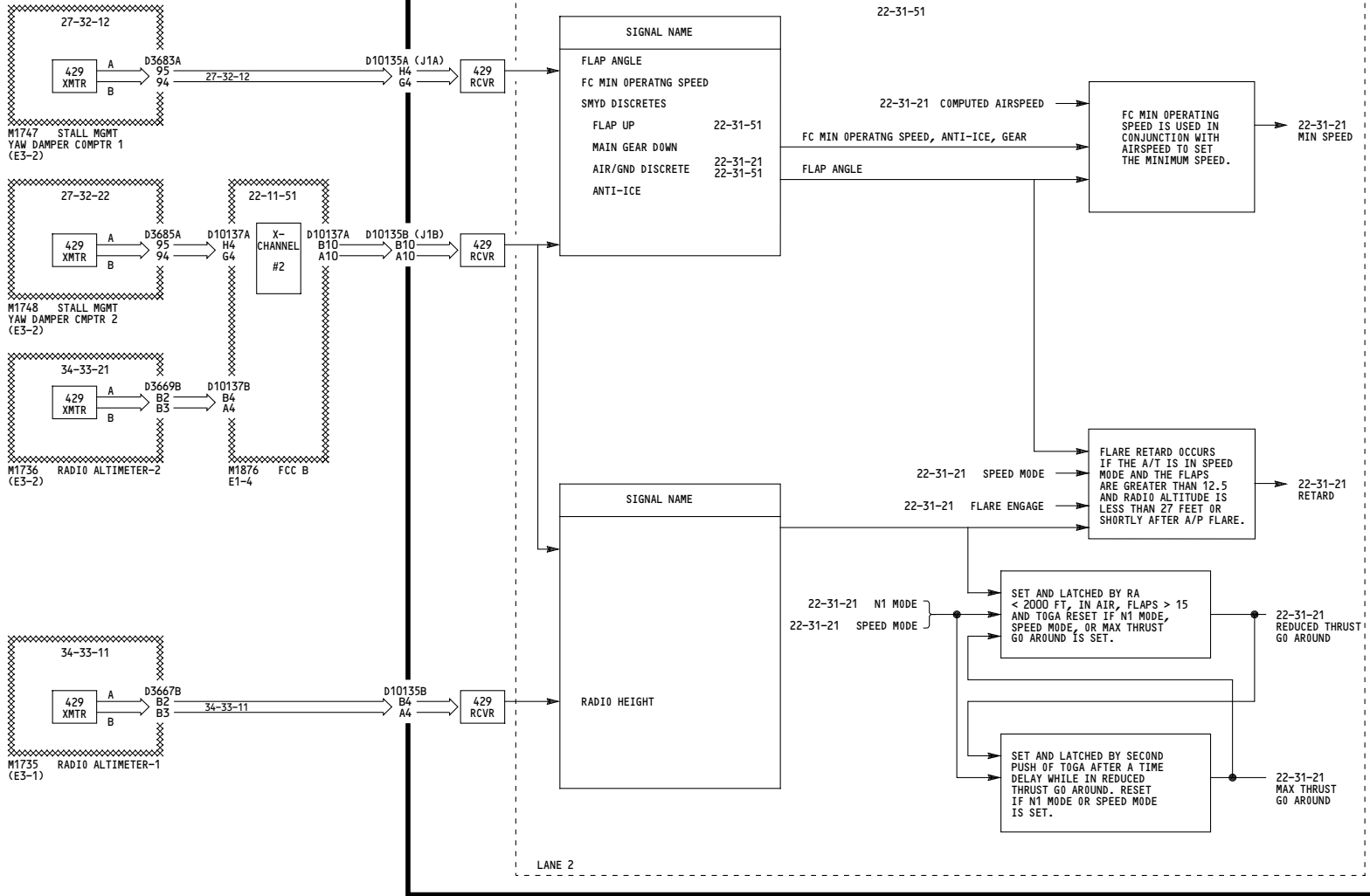
YC001-YC030

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

D280A203

-B
4

WIRING DIAGRAMS
22-31-22



M1875 FLIGHT CONTROL COMPUTER-A (E1-1)

YK901-YM670

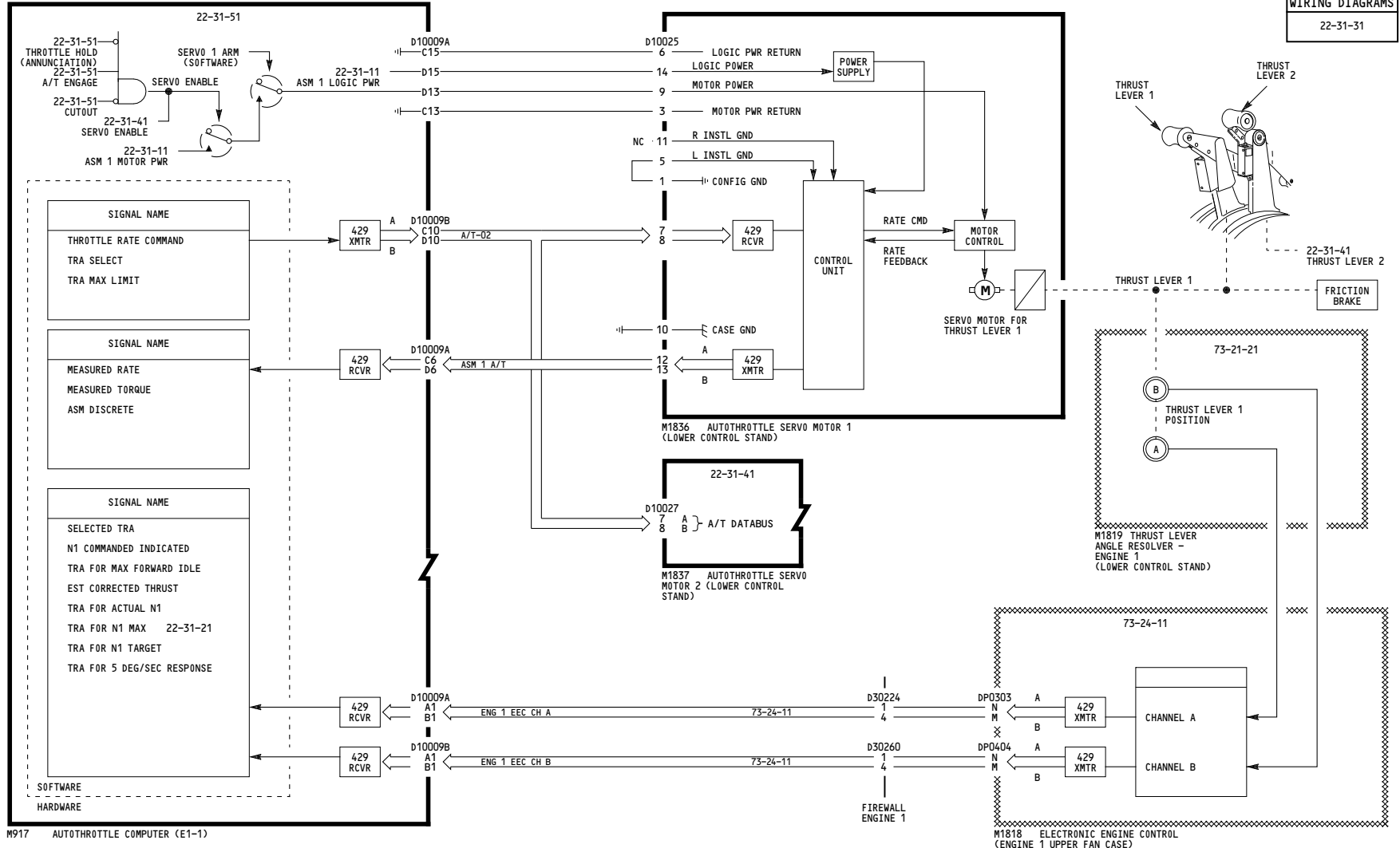
AUTOTHROTTLE SYSTEM - DIGITAL INPUTS FROM SMYDC'S AND RA'S

D280A203

22-31-22

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1

WIRING DIAGRAMS
22-31-31



YC001-YC030

**AUTOHROTTLE SYSTEM -
SERVO MOTOR 1**

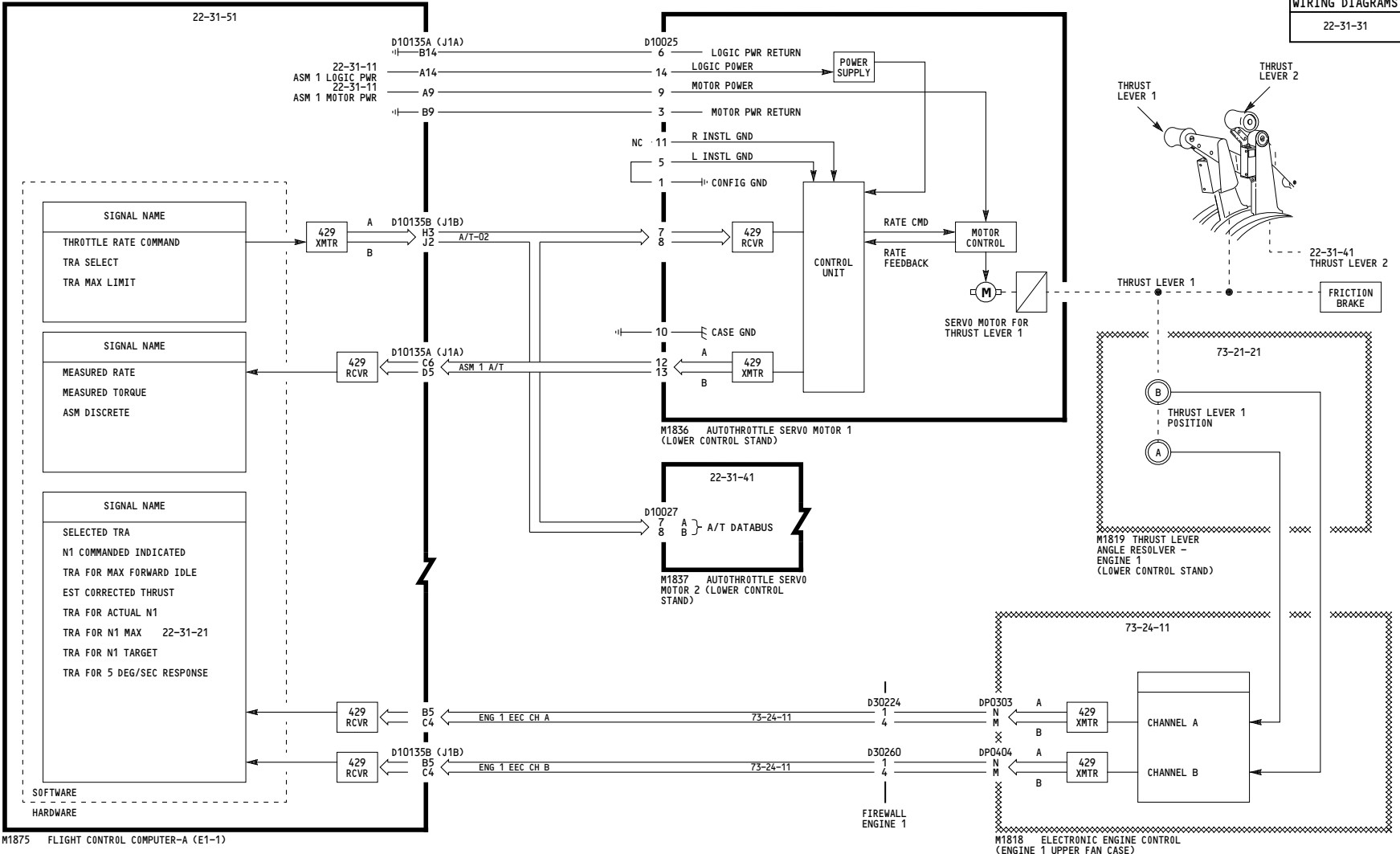
D280A203

22-31-31

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WIRING DIAGRAMS
22-31-31



YK901-YK909, YL421-YM651	AUTOHROTTLE SYSTEM - SERVO MOTOR 1 D280A203
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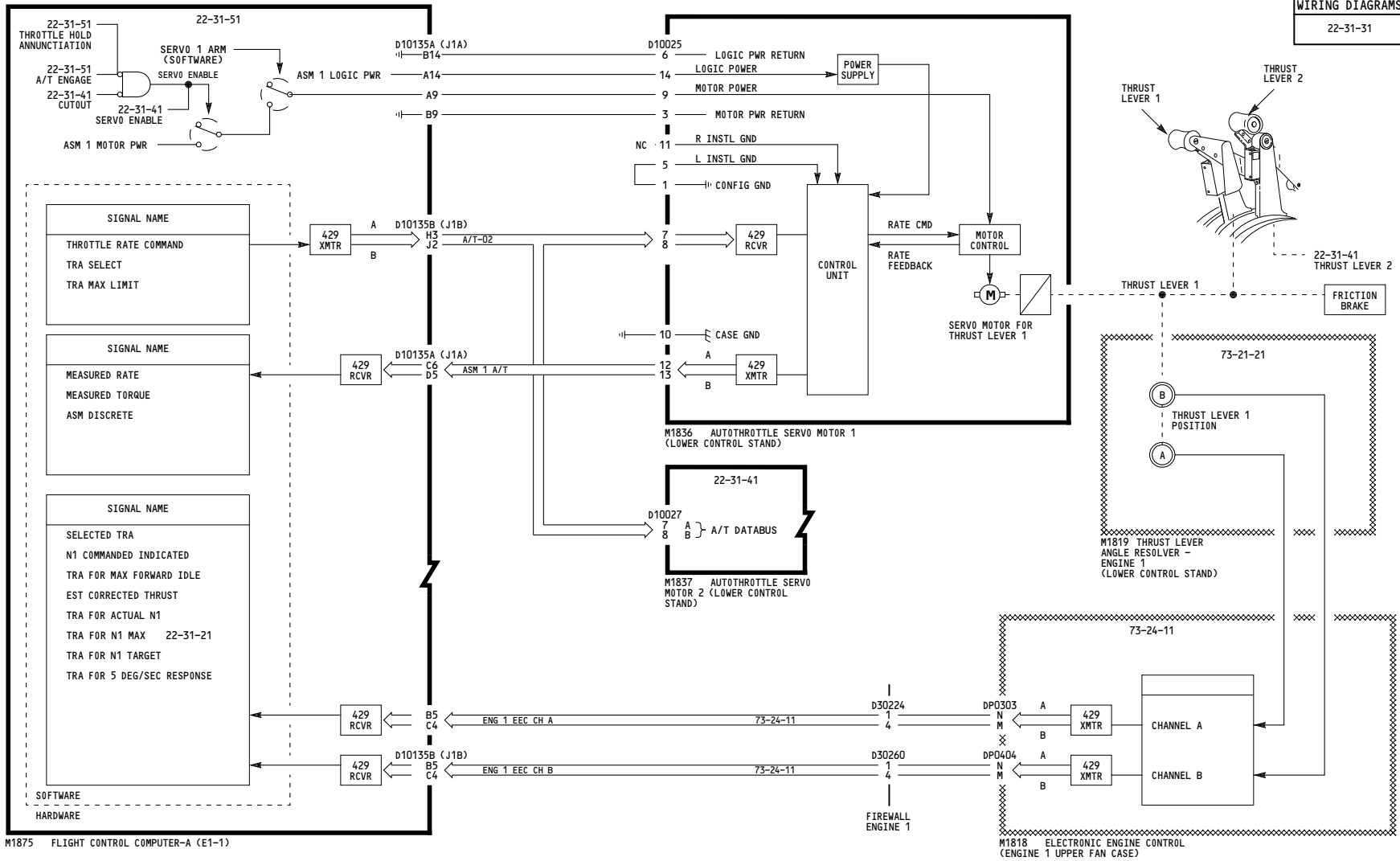
22-31-31

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WIRING DIAGRAMS
22-31-31



M1875 FLIGHT CONTROL COMPUTER-A (E1-1)

M1836 AUTOTHRUSTLE SERVO MOTOR 1 (LOWER CONTROL STAND)

M1837 AUTOTHRUSTLE SERVO MOTOR 2 (LOWER CONTROL STAND)

M1819 THRUST LEVER ANGLE RESOLVER - ENGINE 1 (LOWER CONTROL STAND)

M1818 ELECTRONIC ENGINE CONTROL (ENGINE 1 UPPER FAN CASE)

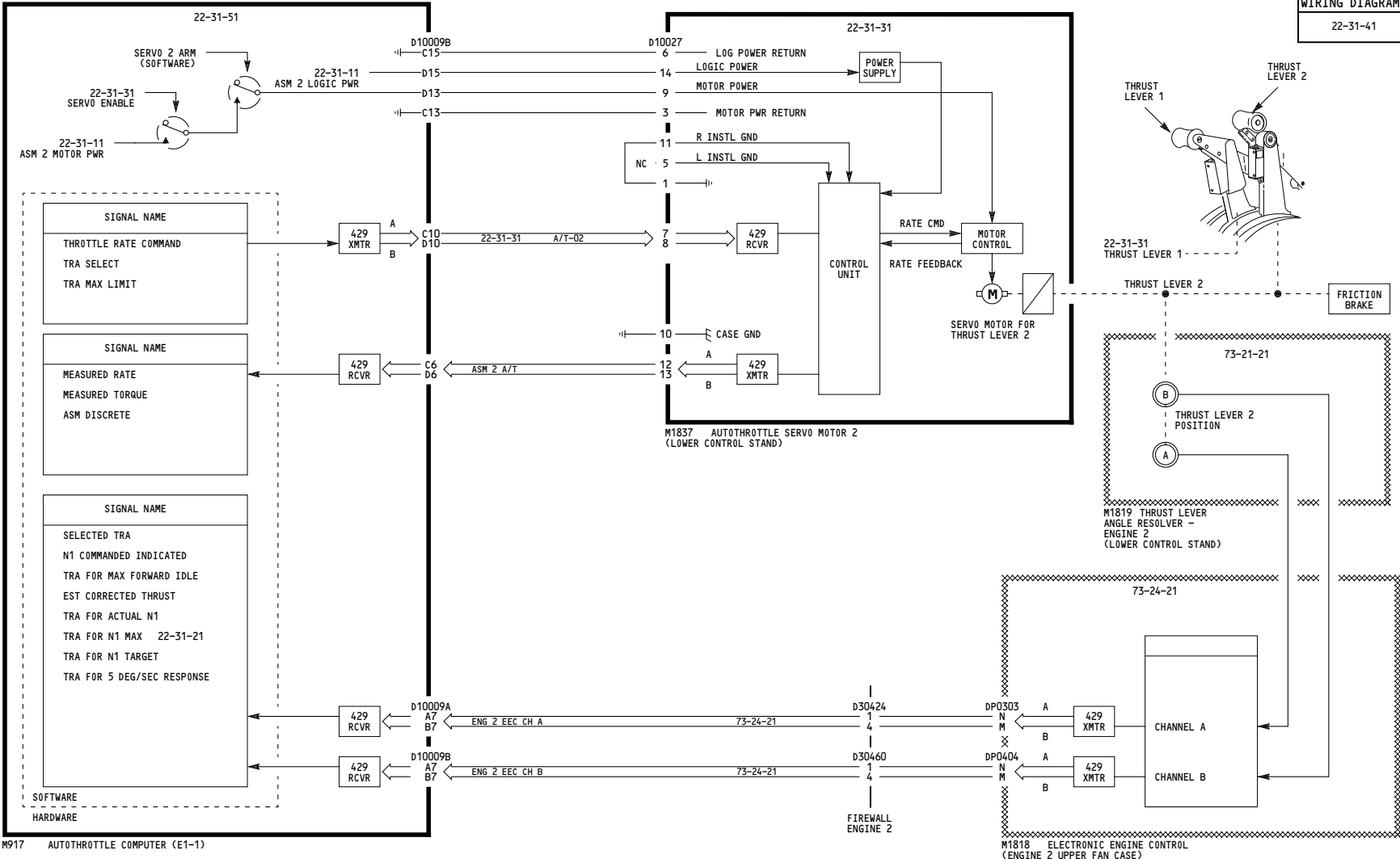
YK910-YL401, YM652-YM670	AUTOTHRUSTLE SYSTEM - SERVO MOTOR 1
	D280A203

22-31-31

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WIRING DIAGRAMS
22-31-41



YC001-YC030

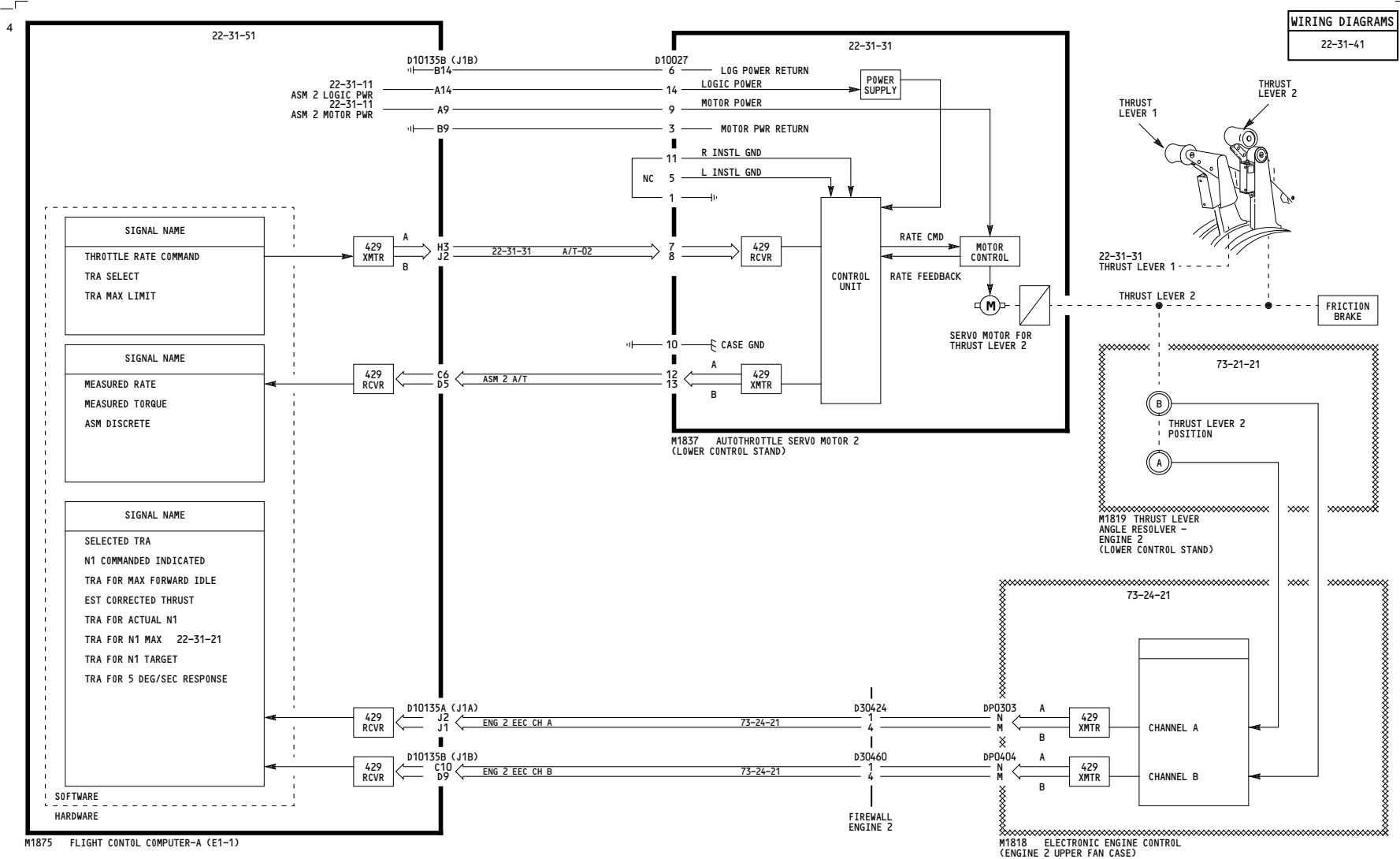
**AUTOTHROTTLE SYSTEM -
SERVO MOTOR 2**

D280A203

22-31-41

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YK901-YK909, YL421-YM651

AUTOTHRUSTLE SYSTEM - SERVO MOTOR 2

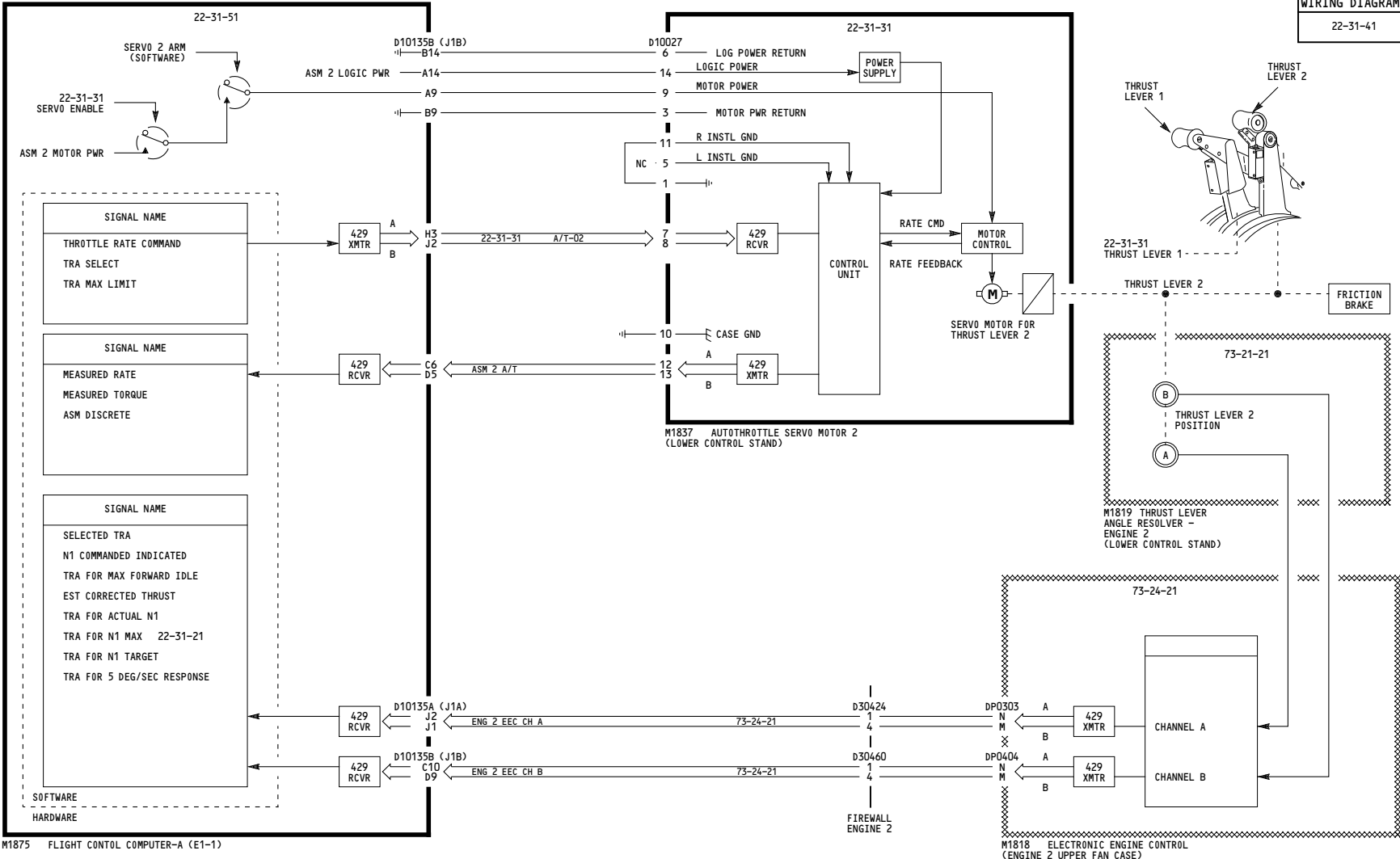
D280A203

22-31-41

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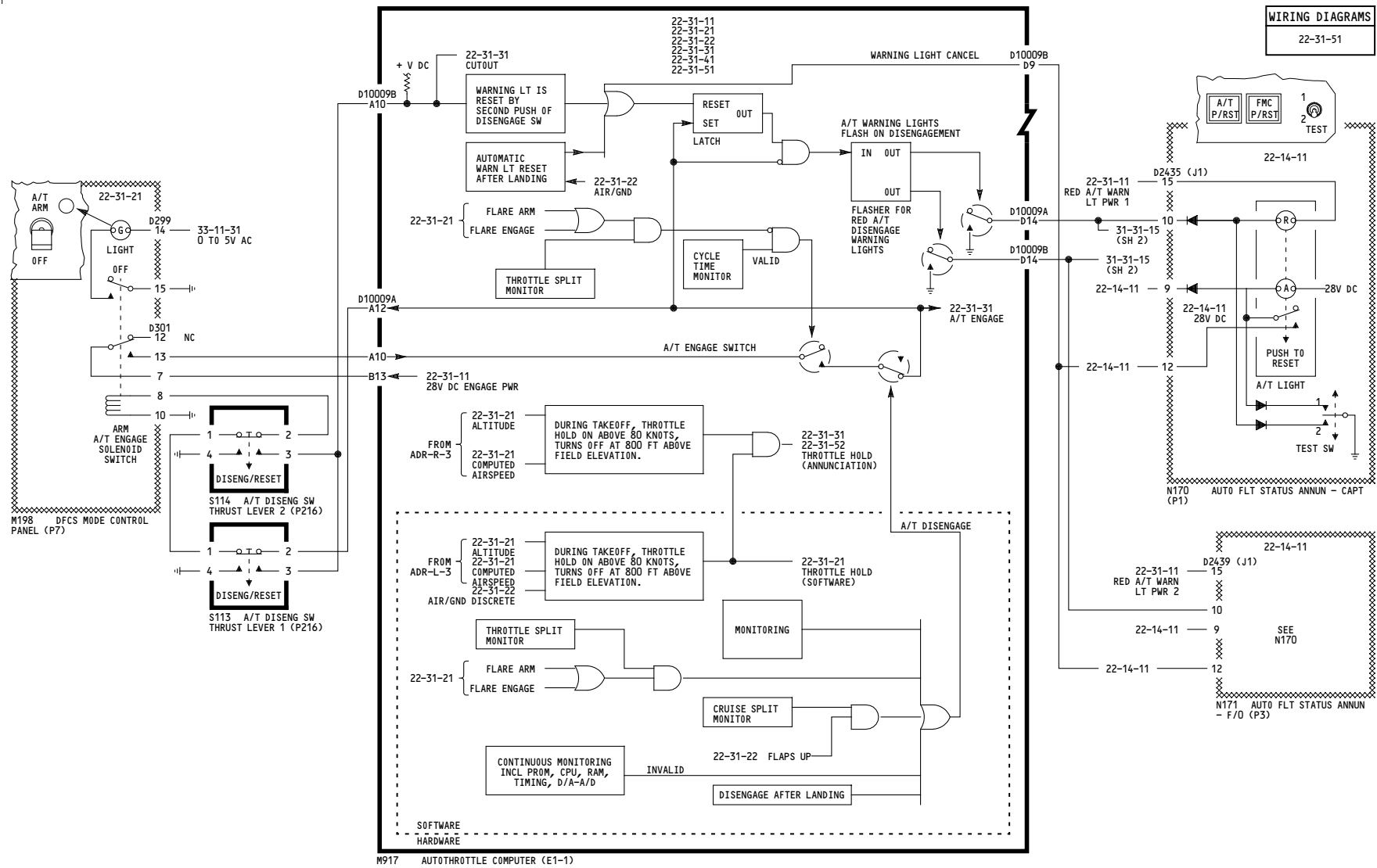
WIRING DIAGRAMS
22-31-41



YK910-YL401, YM652-YM670	AUTOTHROTTLE SYSTEM - SERVO MOTOR 2 D280A203
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22-31-41

-E
1



YC001-YC030

AUTOHROTTLE SYSTEM - ENGAGE/DISENGAGE

D280A203

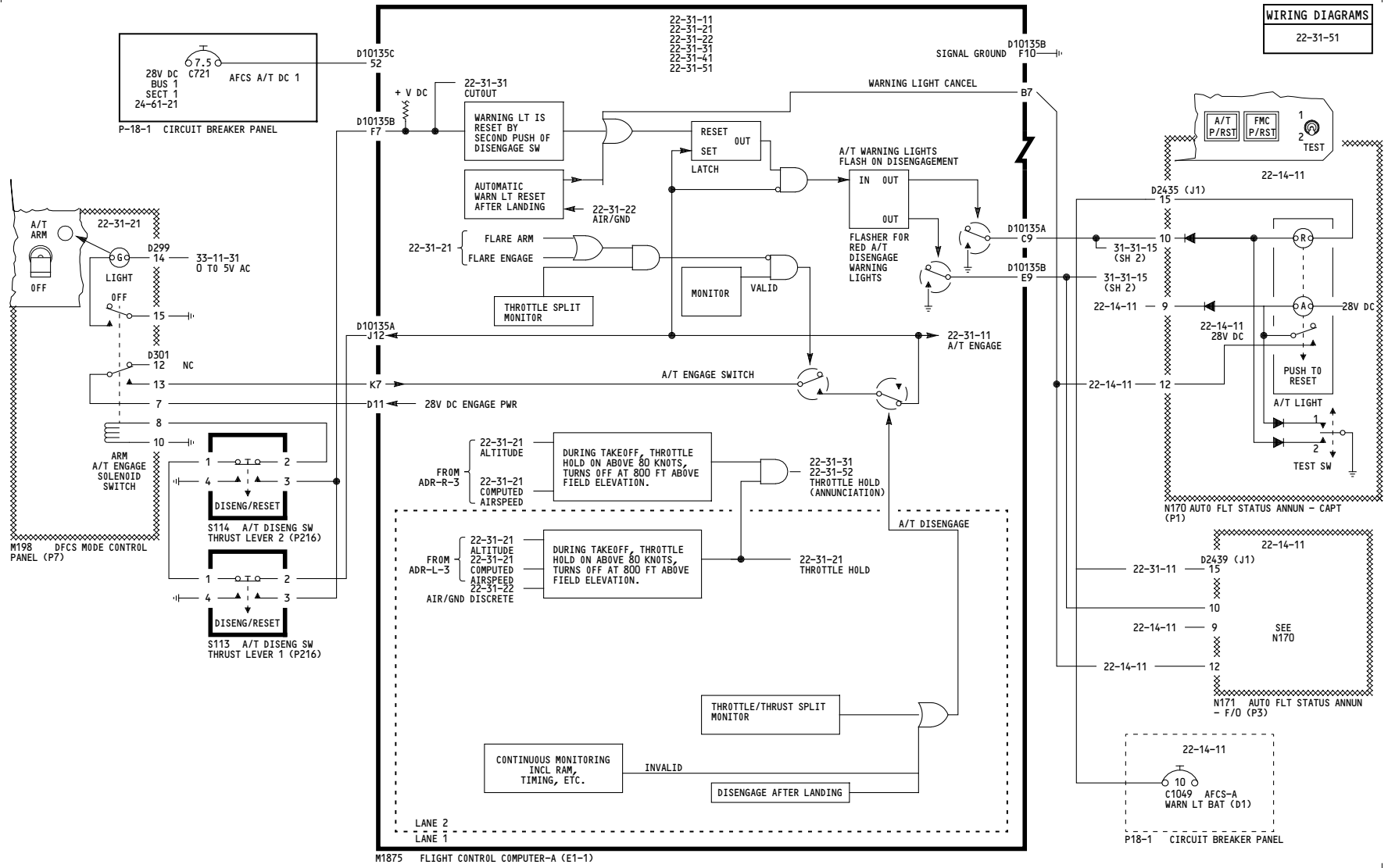
22-31-51

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WIRING DIAGRAMS
22-31-51



YK901-YK909, YL421-YM651

AUTOTHROTTLE SYSTEM - ENGAGE/DISENGAGE

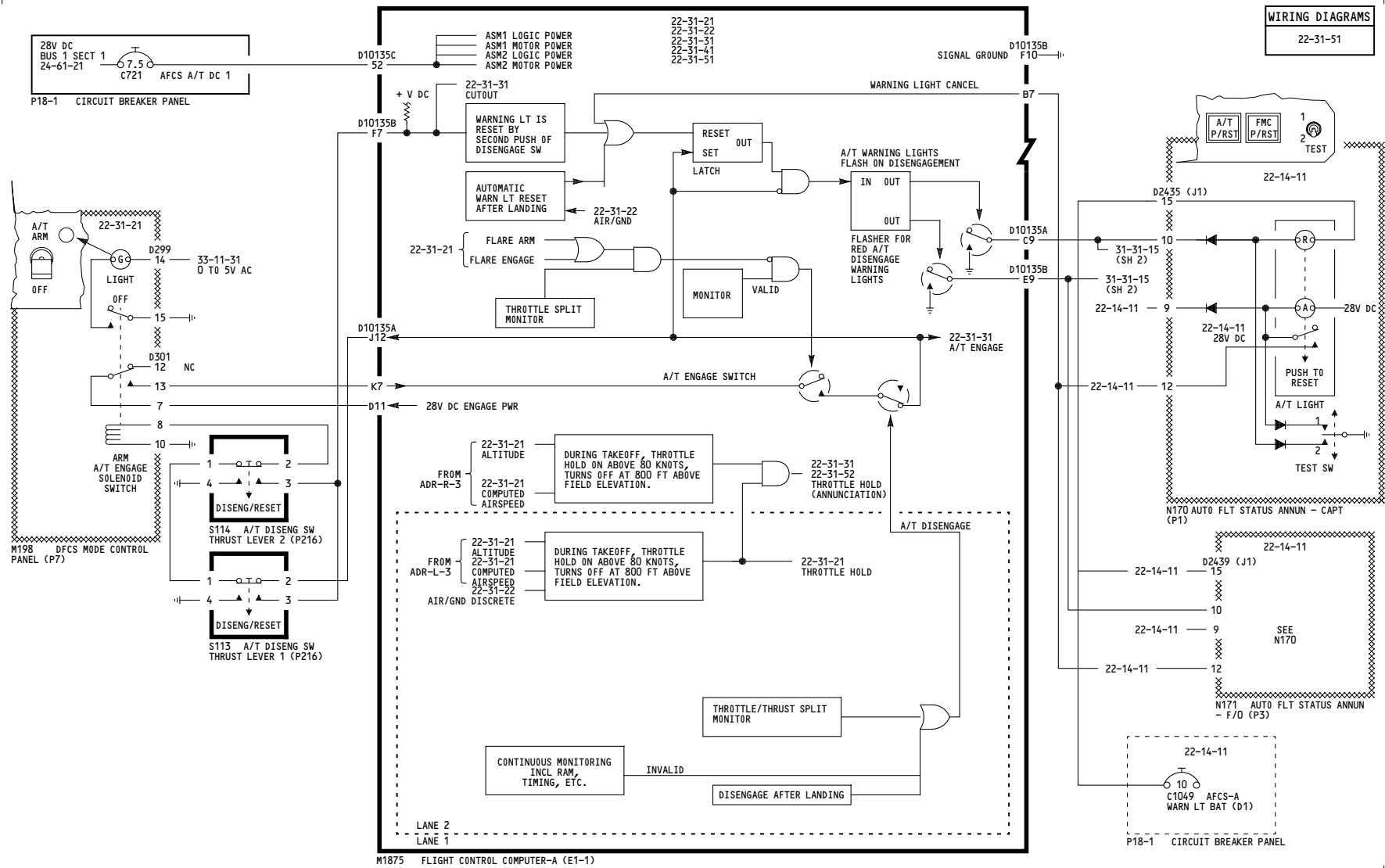
D280A203

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WIRING DIAGRAMS
22-31-51

YK910-YL401, YM652-YM670

**AUTOTHROTTLE SYSTEM -
ENGAGE/DISENGAGE**

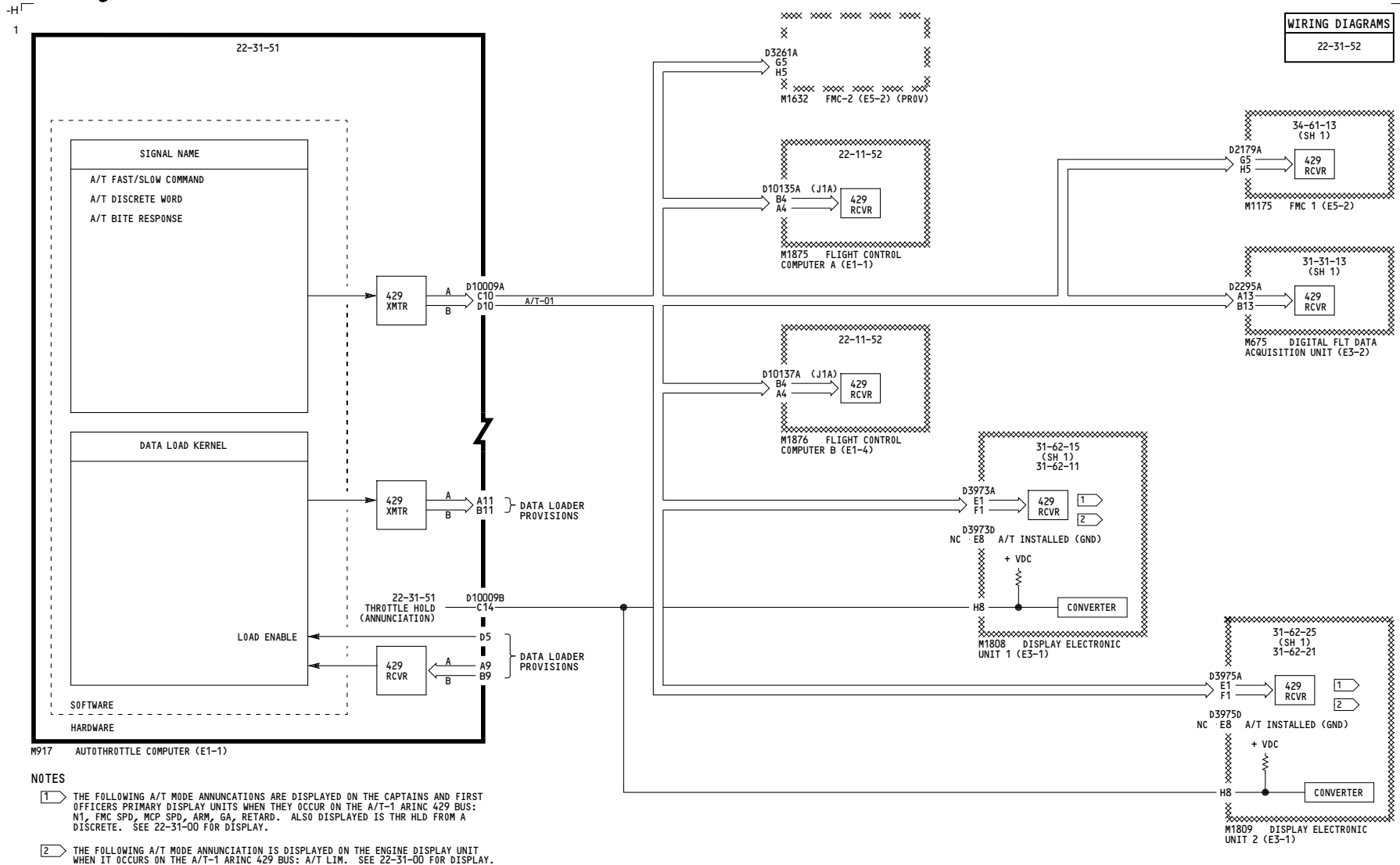
D280A203

22-31-51

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WIRING DIAGRAMS
22-31-52



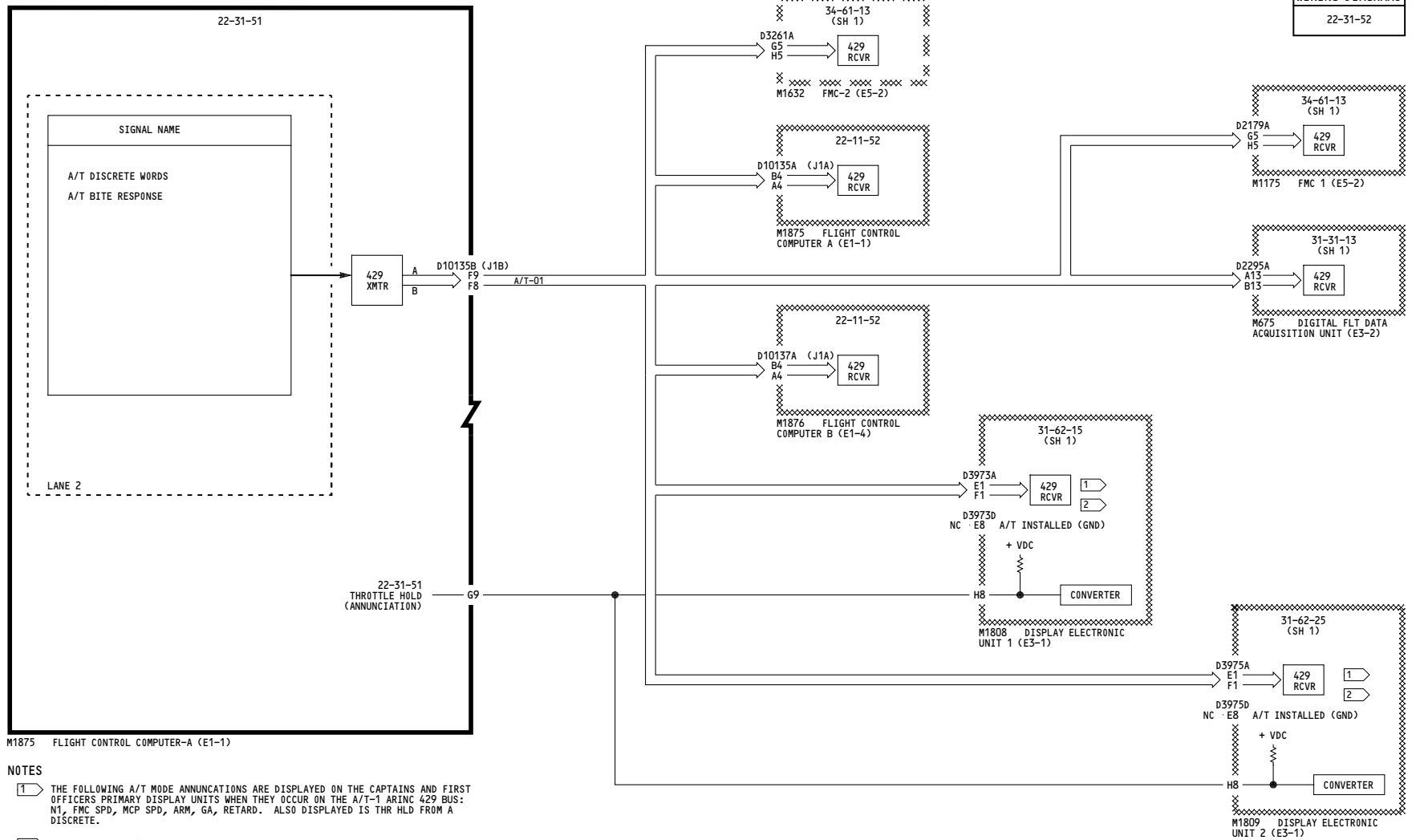
- NOTES
- 1 THE FOLLOWING A/T MODE ANNUNCIATIONS ARE DISPLAYED ON THE CAPTAINS AND FIRST OFFICERS PRIMARY DISPLAY UNITS WHEN THEY OCCUR ON THE A/T-1 ARINC 429 BUS: N1, FMC SPD, MCP SPD, ARM, GA, RETARD. ALSO DISPLAYED IS THR HLD FROM A DISCRETE. SEE 22-31-00 FOR DISPLAY.
 - 2 THE FOLLOWING A/T MODE ANNUNCIATION IS DISPLAYED ON THE ENGINE DISPLAY UNIT WHEN IT OCCURS ON THE A/T-1 ARINC 429 BUS: A/T LIM. SEE 22-31-00 FOR DISPLAY.

YC001-YC030	AUTOTHROTTLE SYSTEM - ARINC OUTPUT
D280A203	

22-31-52

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WIRING DIAGRAMS
22-31-52



M1875 FLIGHT CONTROL COMPUTER-A (E1-1)

NOTES

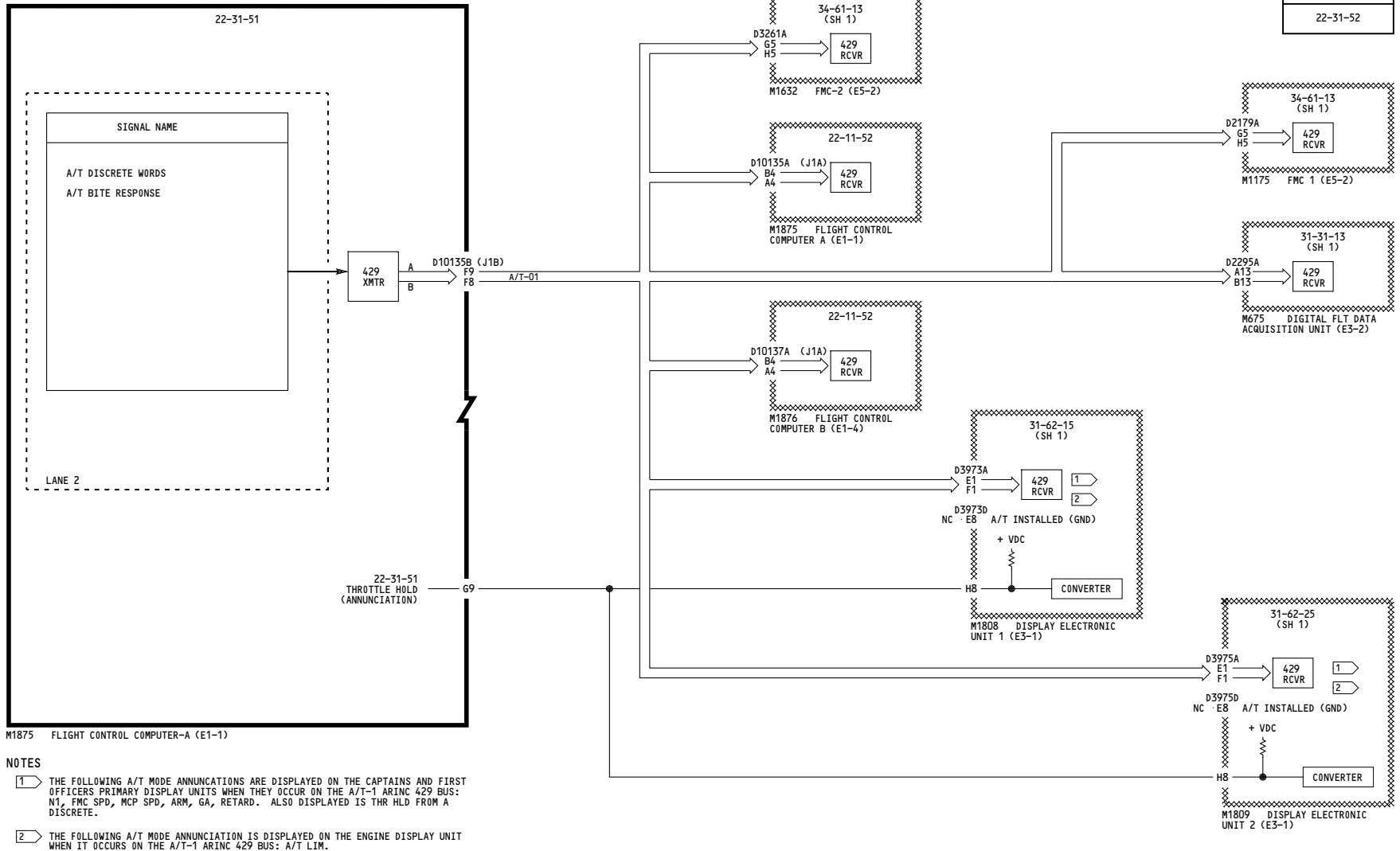
- 1 THE FOLLOWING A/T MODE ANNUNCIATIONS ARE DISPLAYED ON THE CAPTAINS AND FIRST OFFICERS PRIMARY DISPLAY UNITS WHEN THEY OCCUR ON THE A/T-1 ARINC 429 BUS: N1, FMC SPD, MCP SPD, ARM, GA, RETARD. ALSO DISPLAYED IS THR HLD FROM A DISCRETE.
- 2 THE FOLLOWING A/T MODE ANNUNCIATION IS DISPLAYED ON THE ENGINE DISPLAY UNIT WHEN IT OCCURS ON THE A/T-1 ARINC 429 BUS: A/T LIM.

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M1875 FLIGHT CONTROL COMPUTER-A (E1-1)

NOTES

- 1 THE FOLLOWING A/T MODE ANNUNCIATIONS ARE DISPLAYED ON THE CAPTAINS AND FIRST OFFICERS PRIMARY DISPLAY UNITS WHEN THEY OCCUR ON THE A/T-1 ARINC 429 BUS: N1, FMC SPD, MCP SPD, ARM, GA, RETARD. ALSO DISPLAYED IS THR HLD FROM A DISCRETE.
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**AUTOTHROTTLE SYSTEM -
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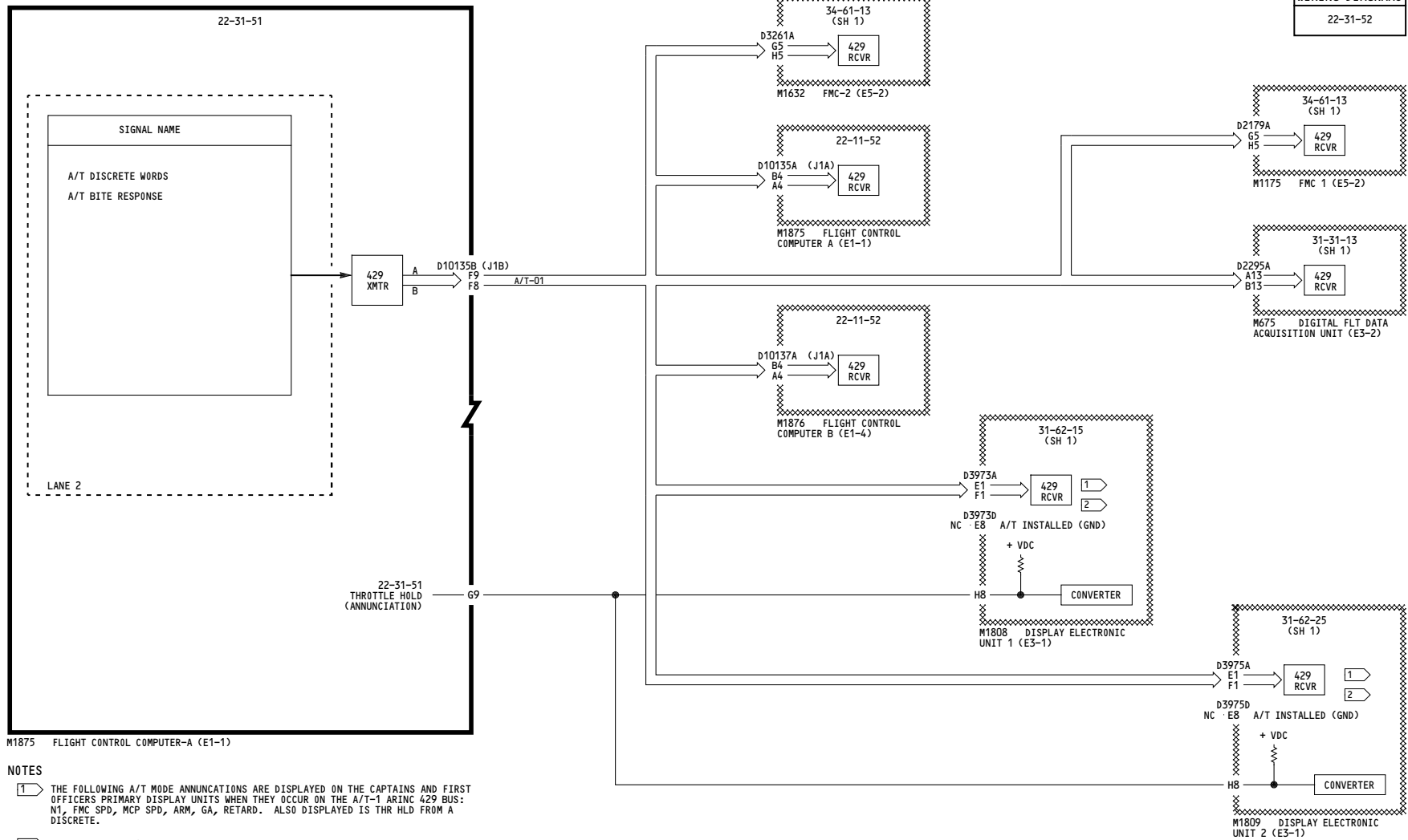
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M1875 FLIGHT CONTROL COMPUTER-A (E1-1)

NOTES

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