

CHAPTER

22

AUTOFLIGHT

CHAPTER 22
AUTOFLIGHT

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22-31-51	AUTOTHROTTLE SYSTEM - ENGAGE/DISENGAGE
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22-11-11	DFCS - A AND B FCC POWER AND 26V AC EXCITATION
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22-11-14	DFCS - INTERSYSTEM SWITCHING
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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

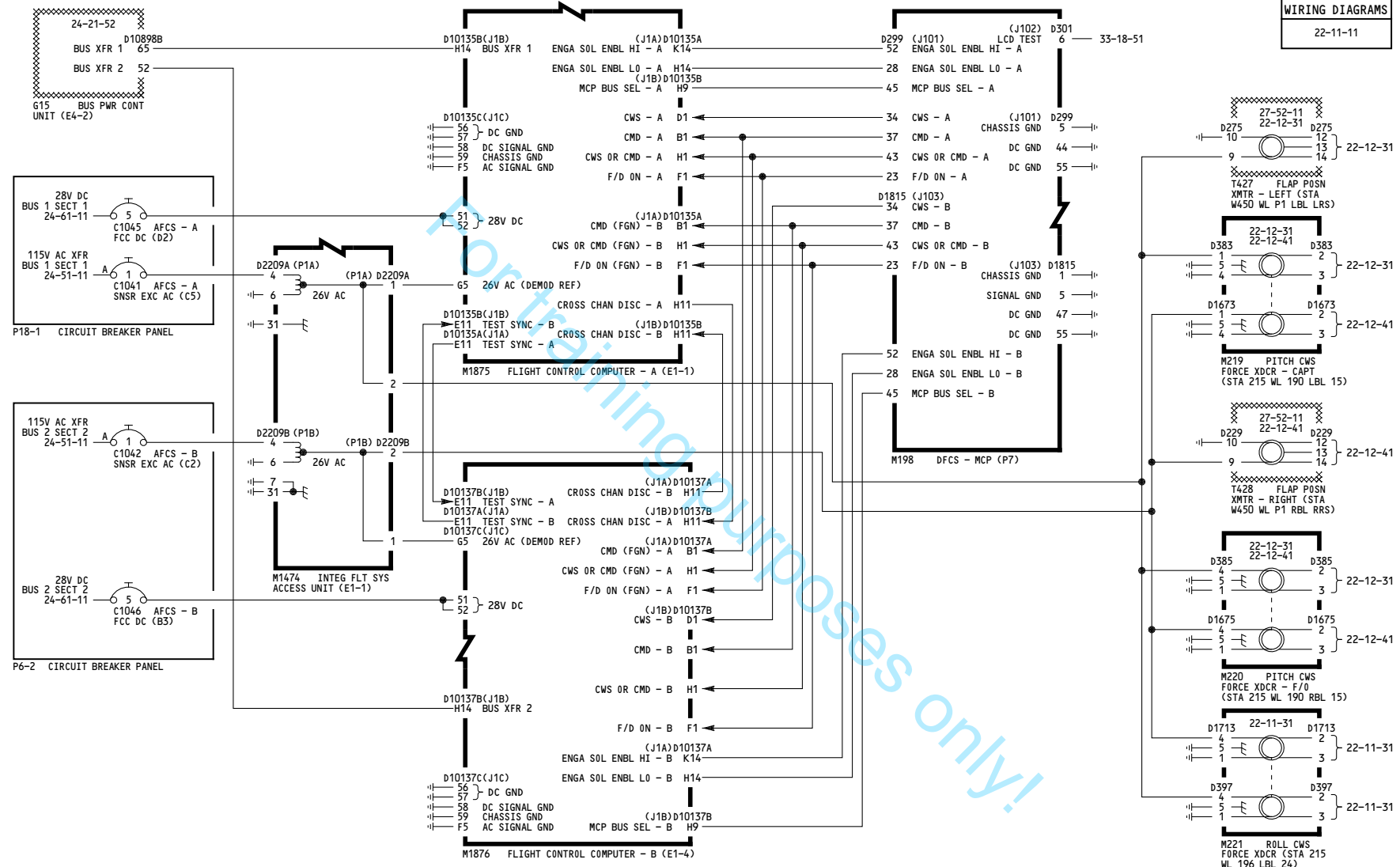
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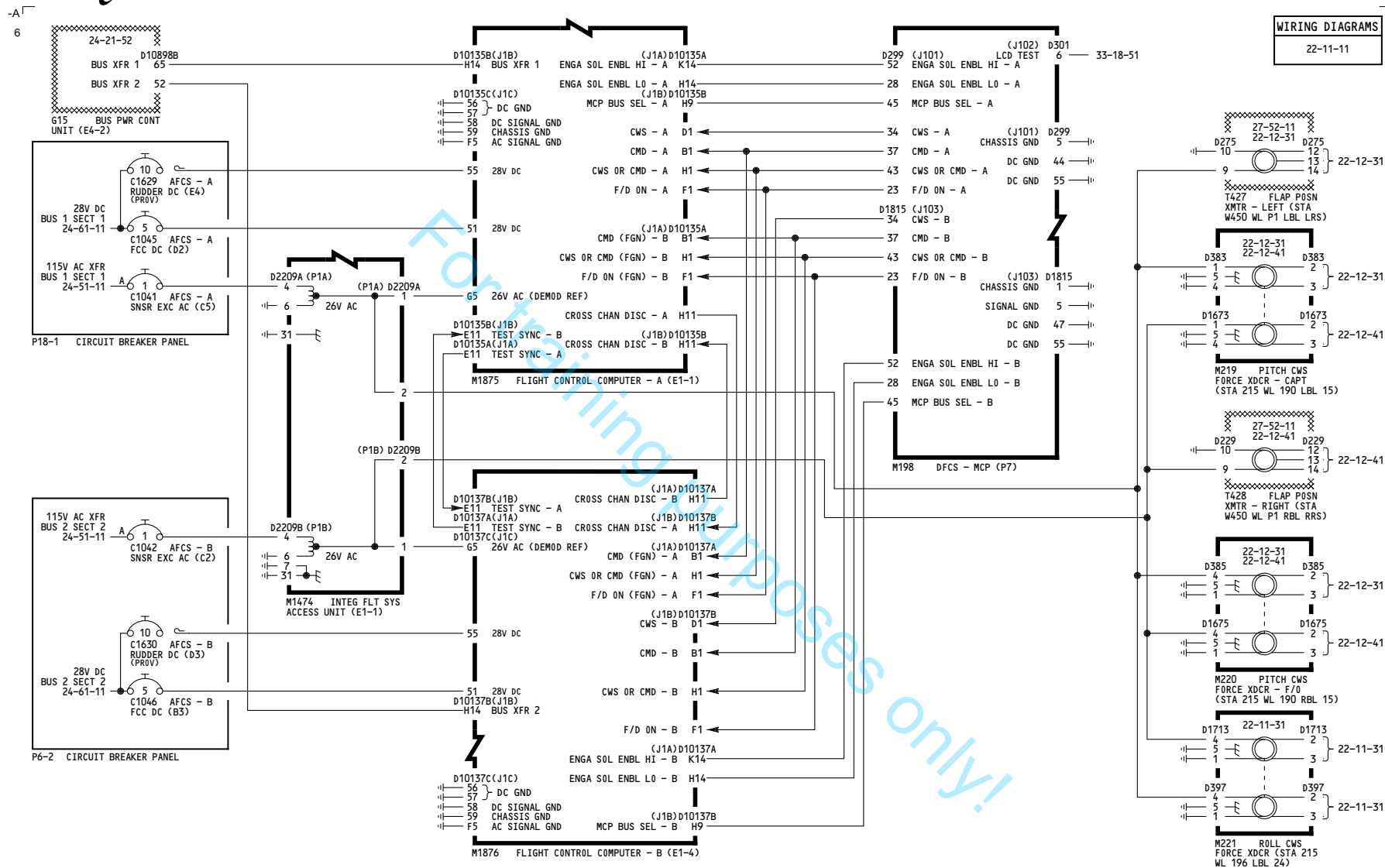
**DFCS - A AND B FCC
POWER AND 26V AC
EXCITATION**

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

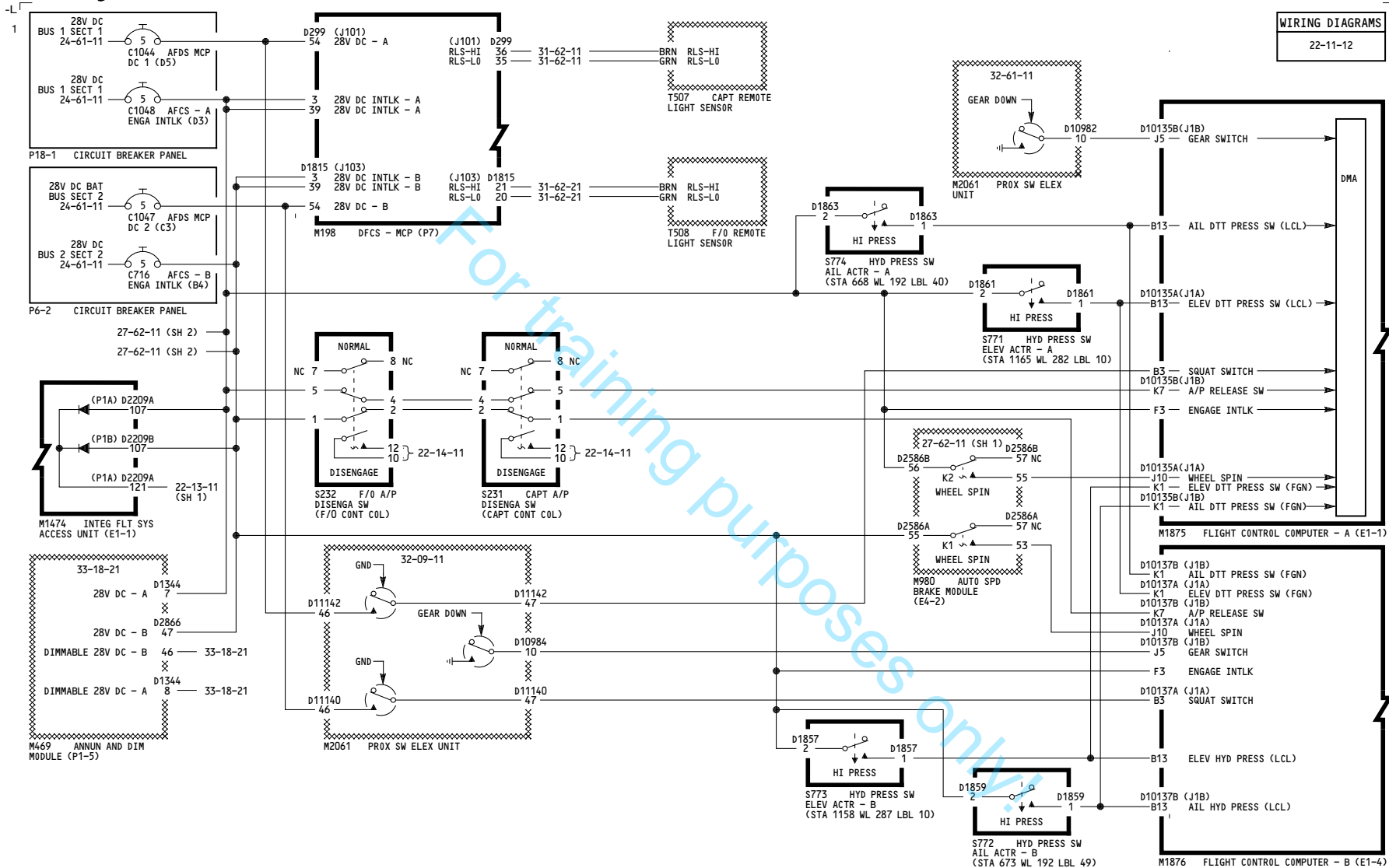
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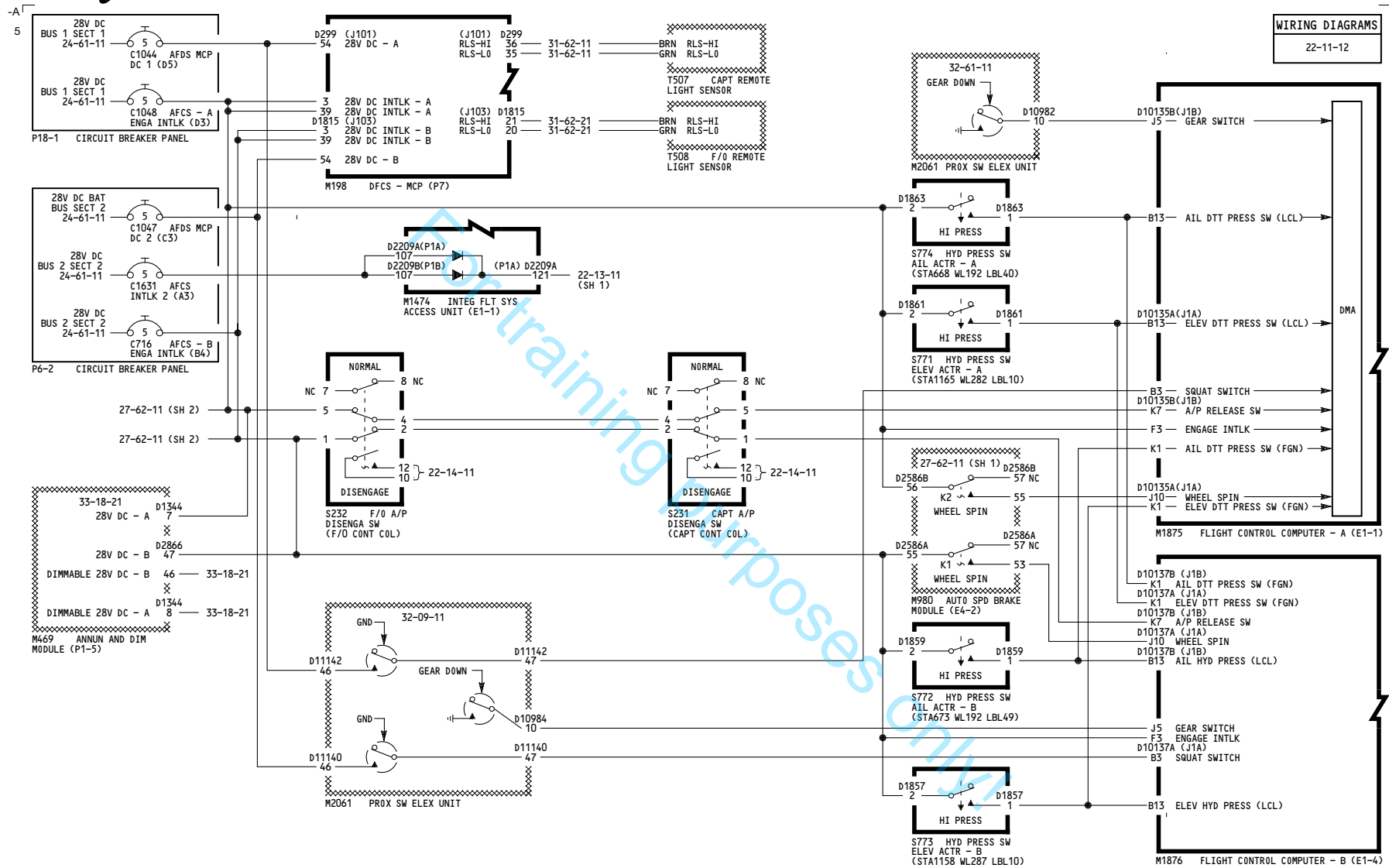
DFCS - A AND B SYSTEM INTERLOCKS

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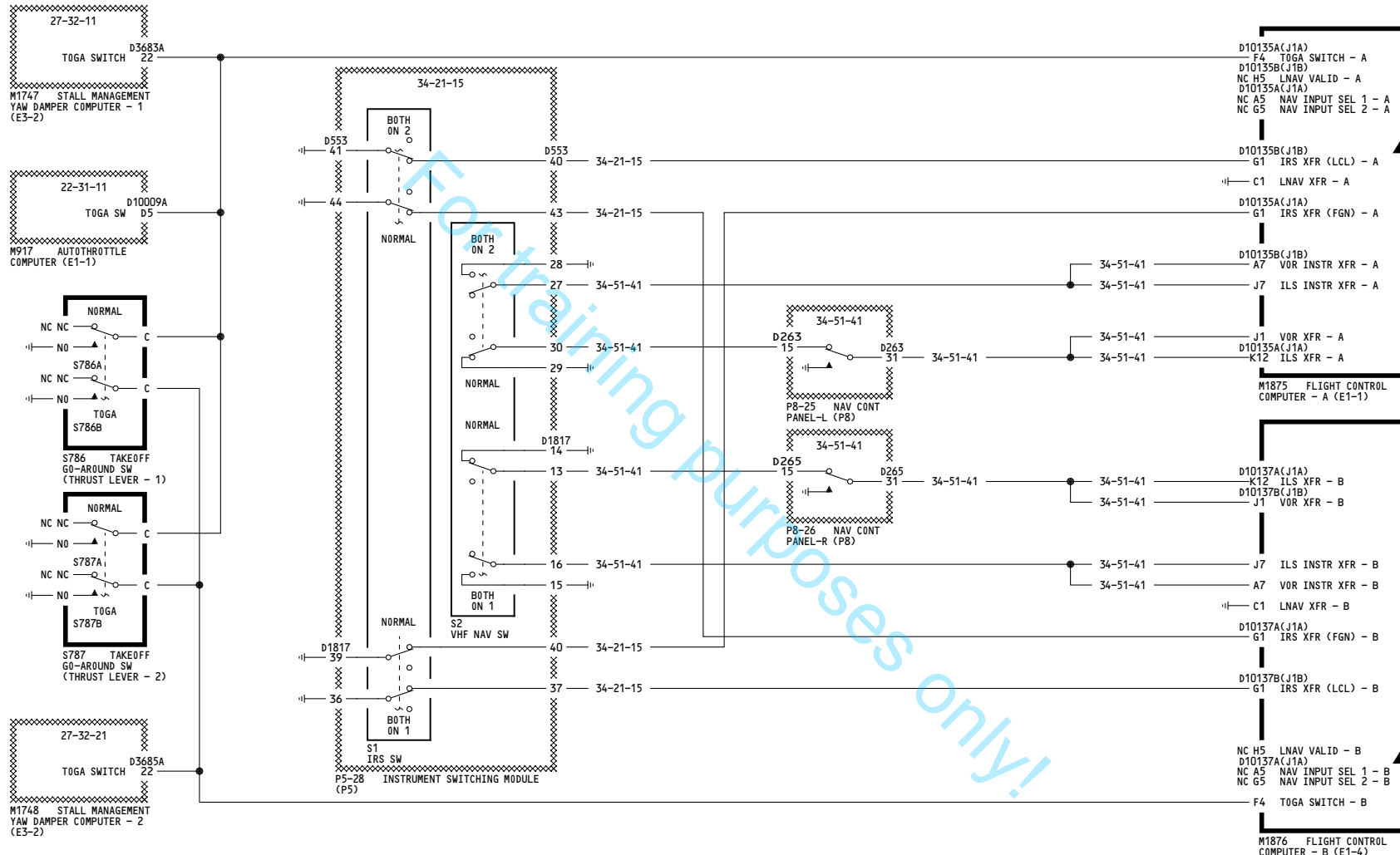
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WIRING DIAGRAMS

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DFCS - INTERSYSTEM SWITCHING

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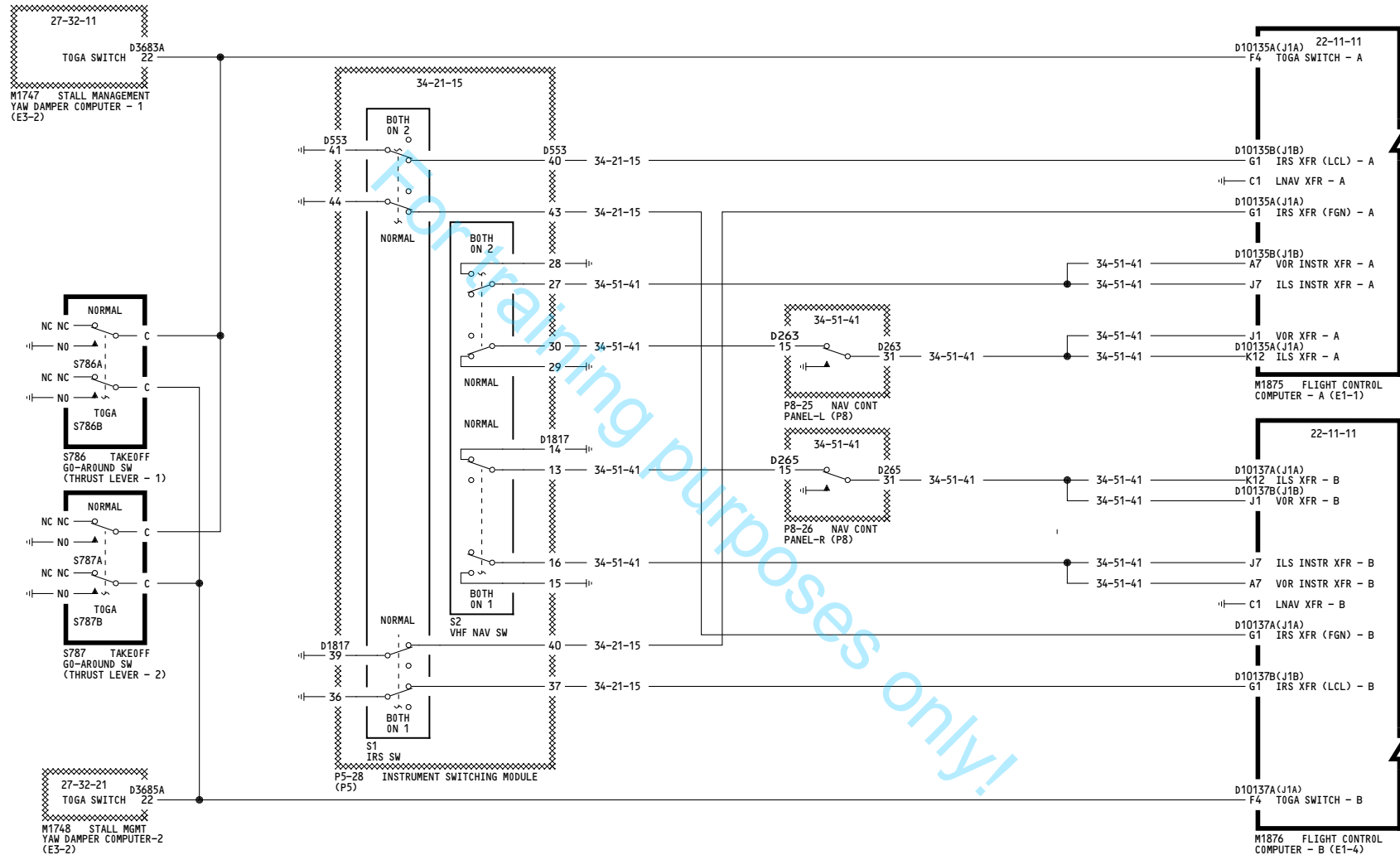
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WIRING DIAGRAMS

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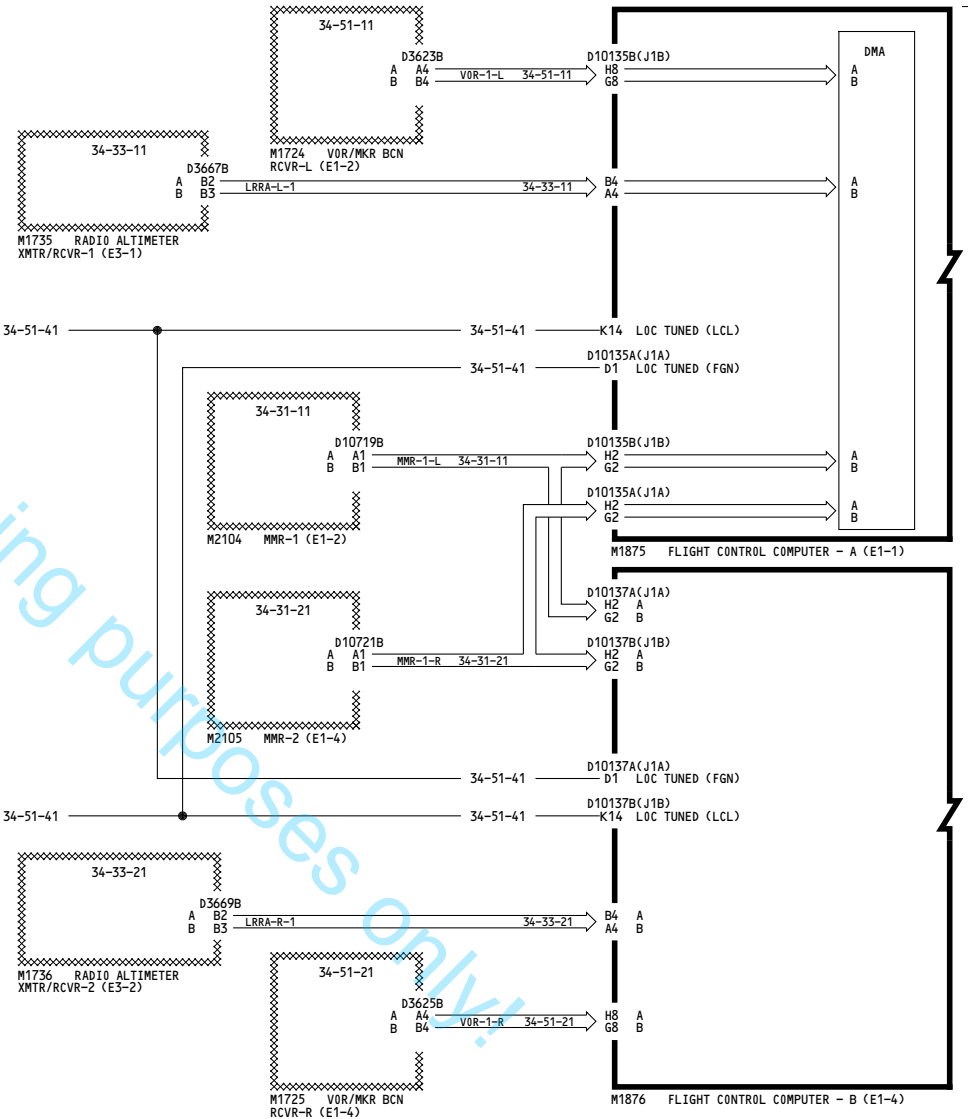
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For training purposes only



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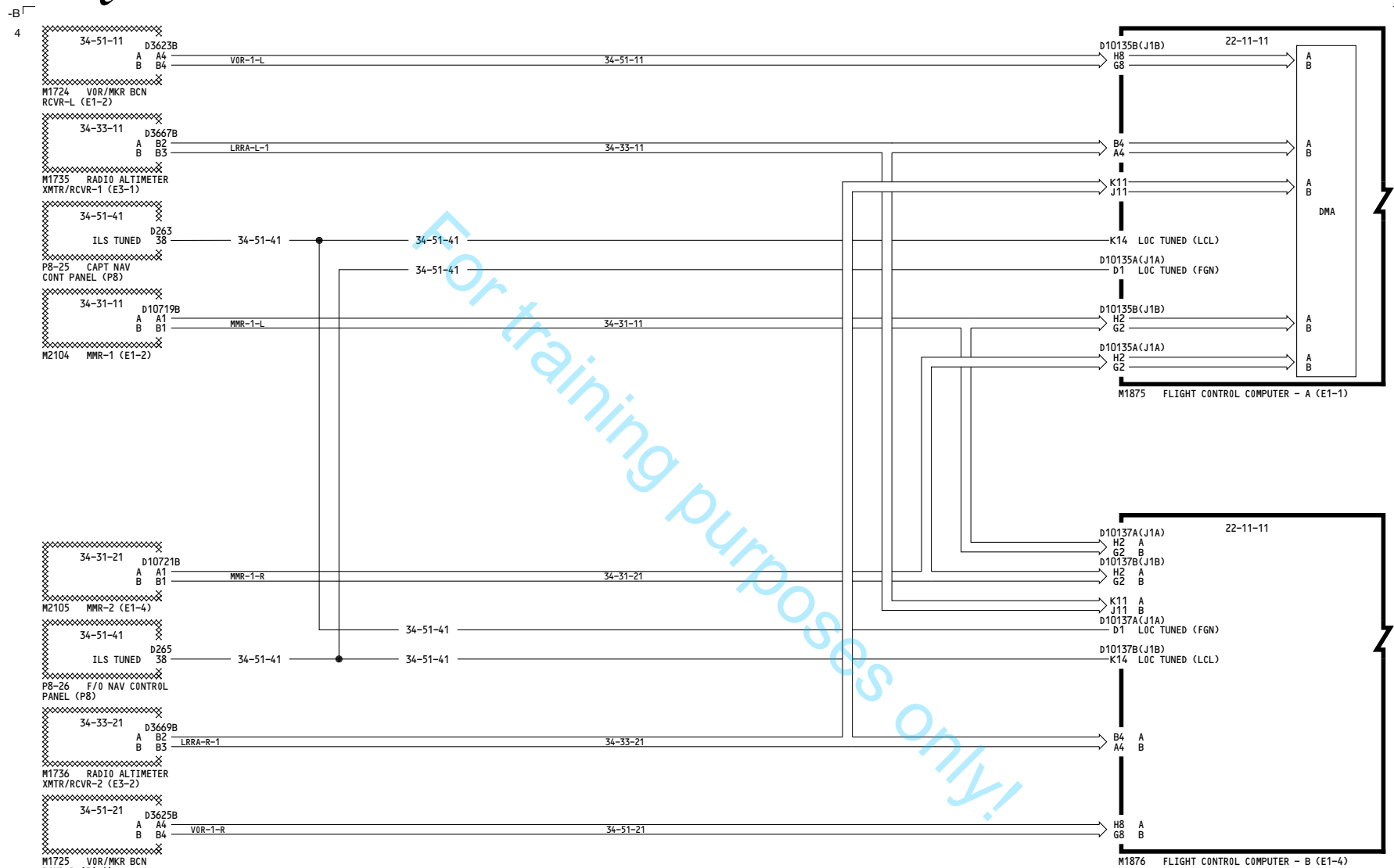
**DFCS - INTERSYSTEM
INTERFACES - VOR, ILS,
LRRRA**

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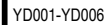
**DFCS - INTERSYSTEM
INTERFACES - VOR, ILS,
LRRRA**

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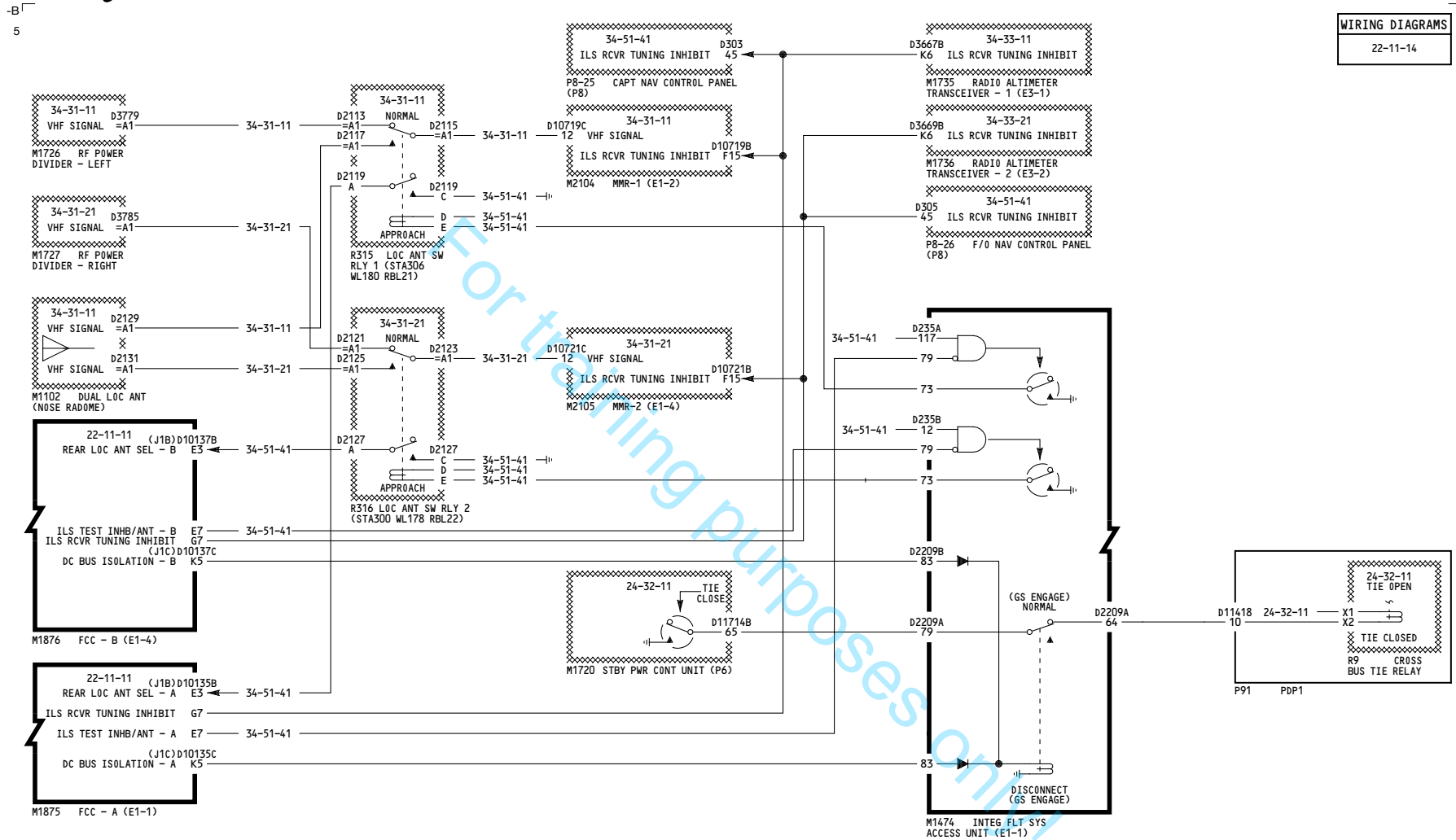
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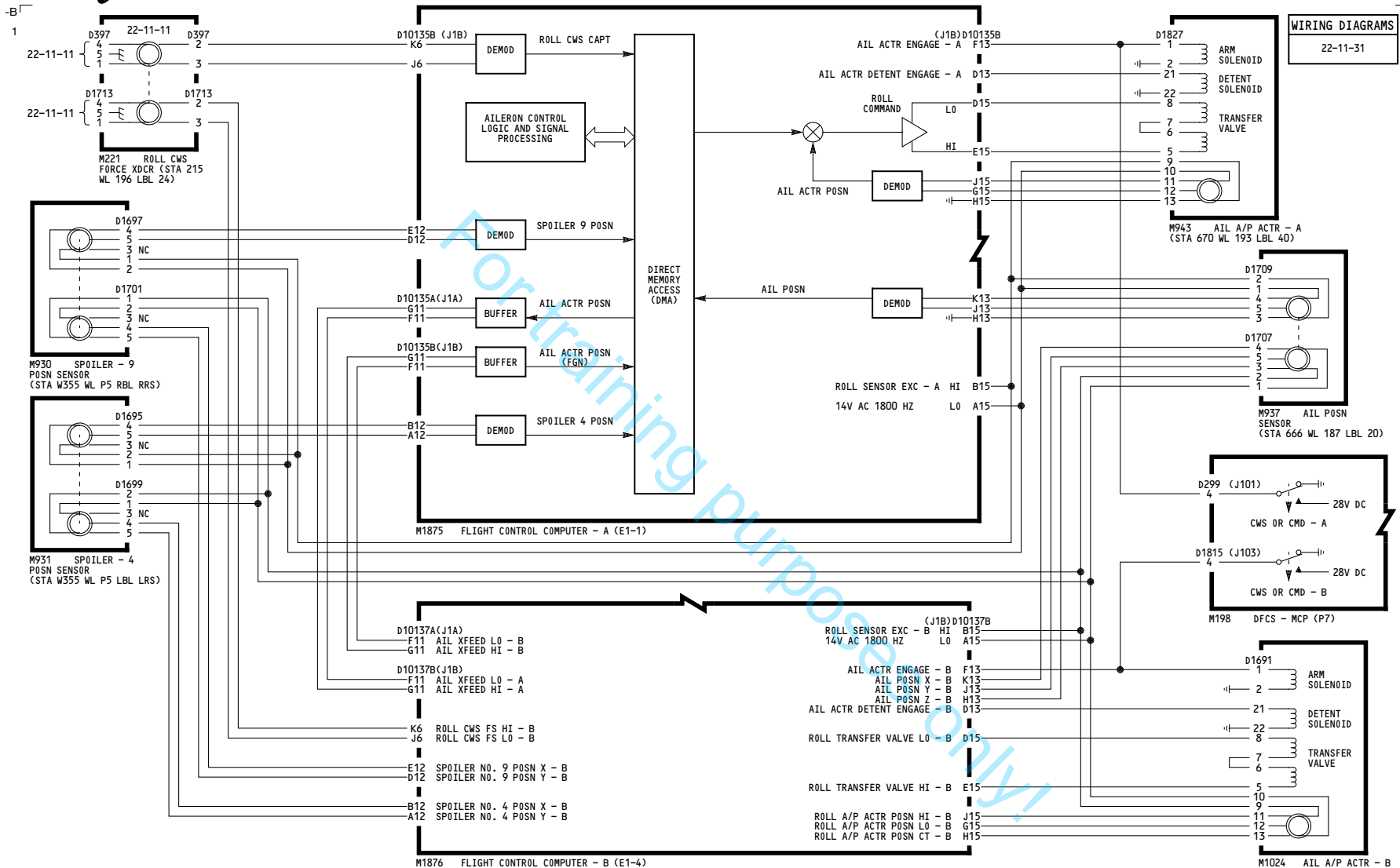
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SWITCHING - VHF NAV
ANTENNAS**

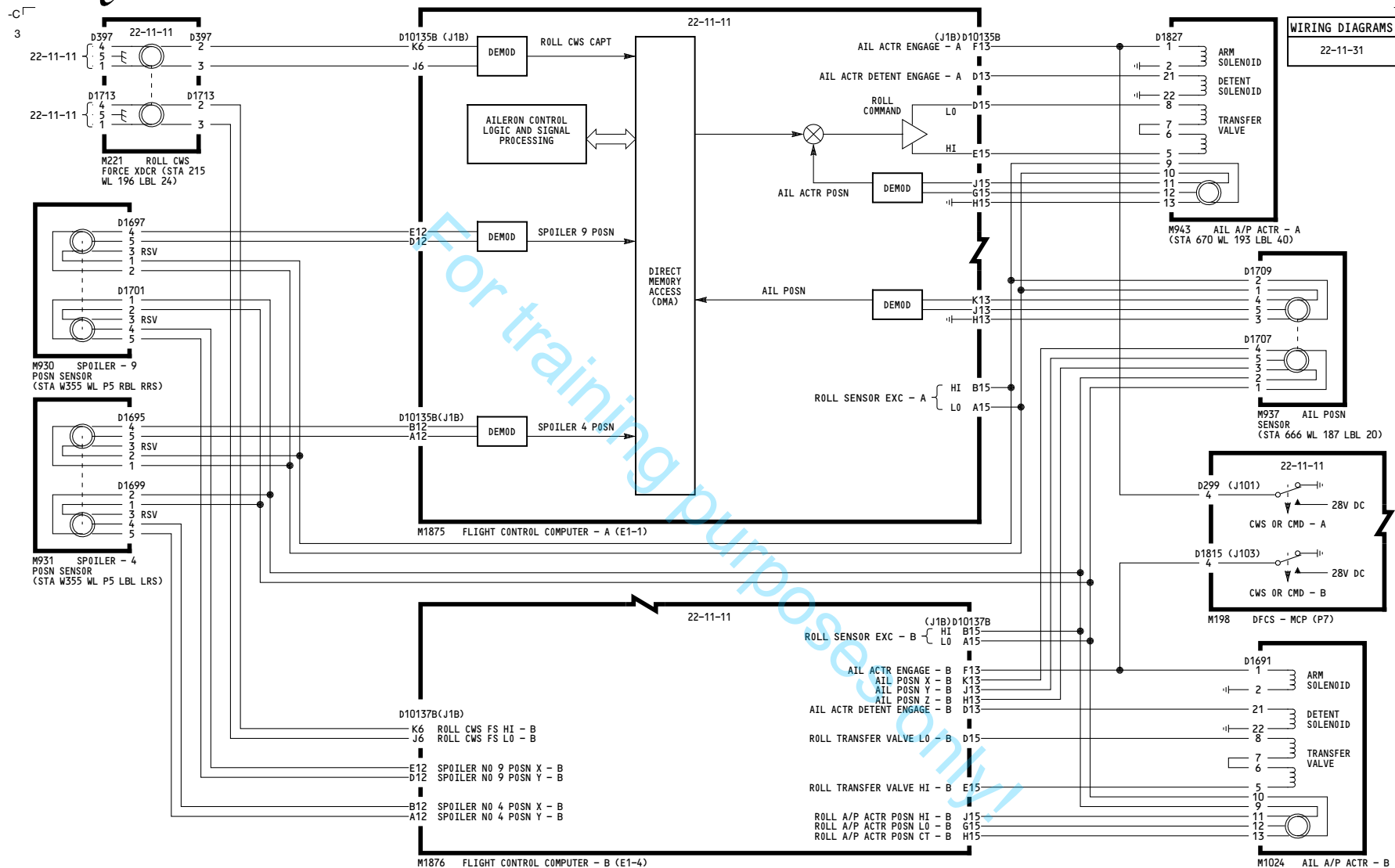
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**DFCS - A AND B A/P
ROLL SENSORS AND
ACTUATORS**

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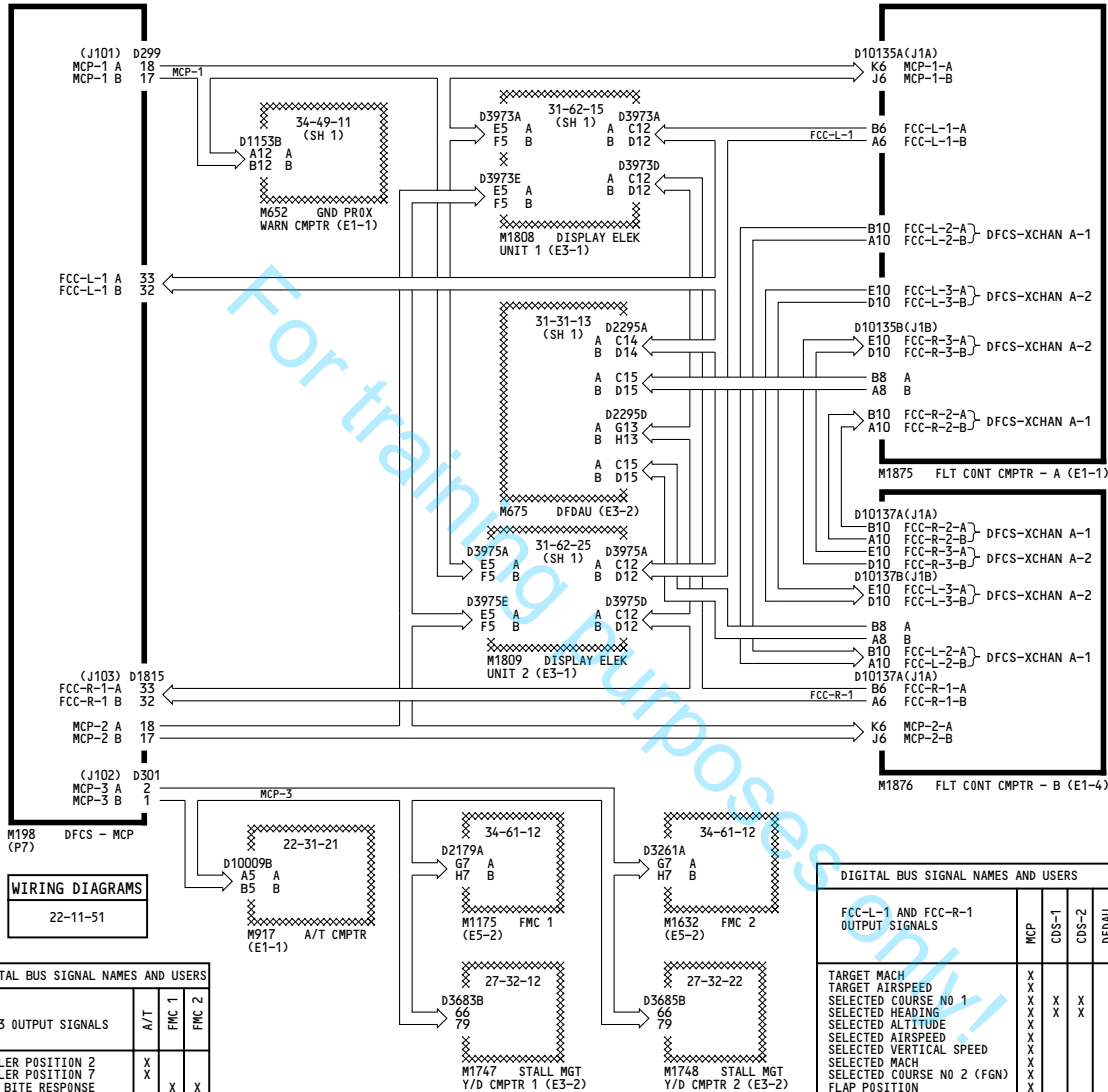


737-800 SYSTEM SCHEMATIC MANUAL

DIGITAL BUS SIGNAL NAMES AND USERS					
MCP-1 AND MCP-2 OUTPUT SIGNALS					
	FCC-A	FCC-B	CD-1	CD-2	GPWS
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
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
B CMD	X	X	X	X	X
B CWS	X	X	X	X	X
AIRSPEED/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	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	X	X	X	X	
ALT ACQ	X	X	X	X	
ALT HOLD	X	X	X	X	
V/S ENGAGE	X	X	X	X	
TOGA	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	
LCL 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	
FLIGHT PATH ANGLE RATE	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	

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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	GPWS
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

WIRING DIAGRAMS

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

DFCS - DIGITAL BUS
INTERFACES - OUTPUTIncorporates
34-1767 R01

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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
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
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
LCL 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
FLIGHT PATH ANGLE RATE	X	X	X	X

DIGITAL BUS SIGNAL NAMES AND USERS	MCP	CD-1	CD-2	DFDAU
FCC-L-1 AND FCC-R-1 OUTPUT SIGNALS	X	X	X	X
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

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DIGITAL BUS SIGNAL NAMES AND USERS

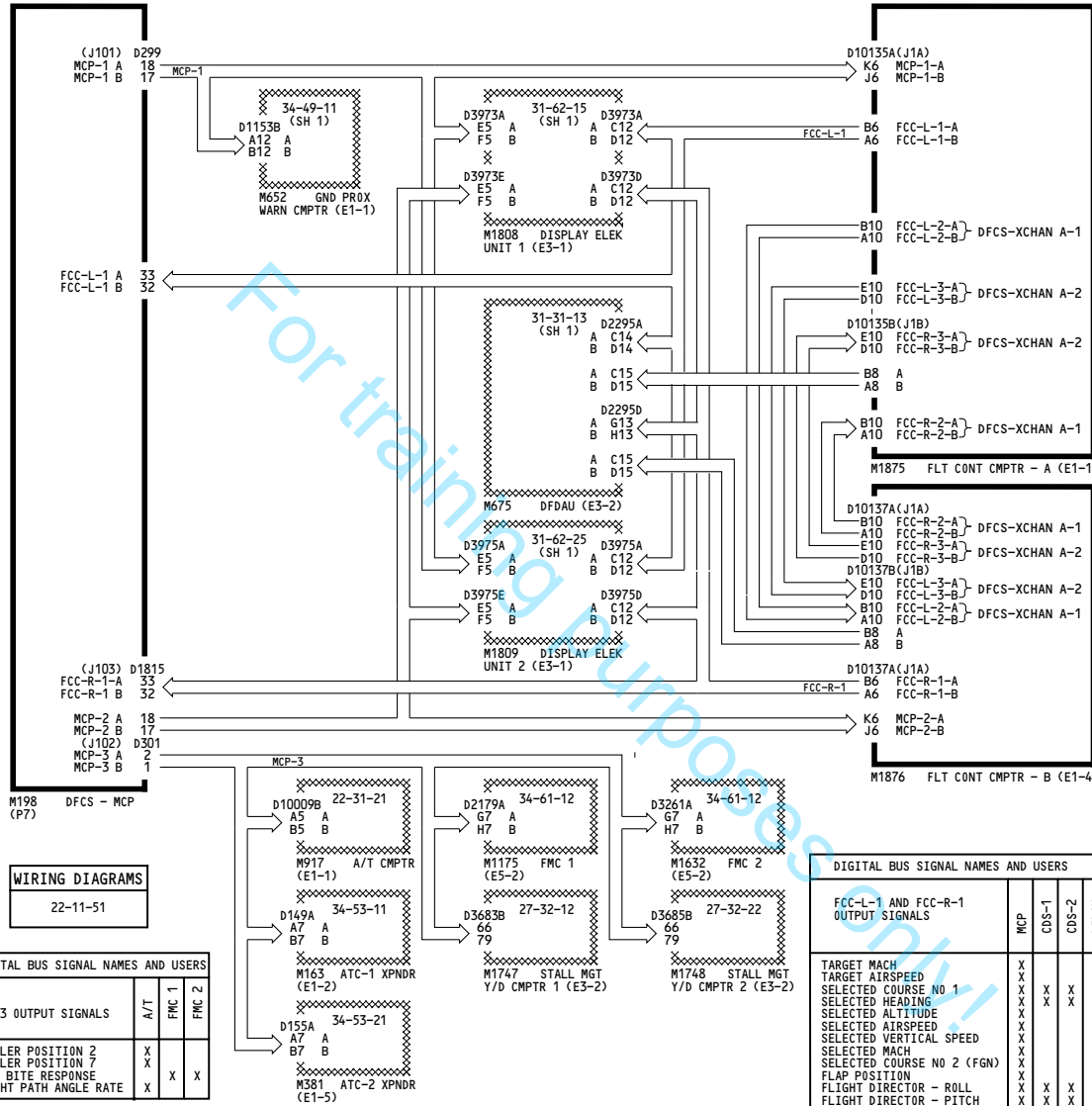
MCP-1 AND MCP-2 OUTPUT SIGNALS	FCC-A	FCC-B	CD-1	CD-2	GPWS
SELECTED HEADING	X	X	X	X	X
SELECTED COURSE	X	X	X	X	X
ALTITUDE WINDOW WRAP	X	X	X	X	X
MCP MAINT DISCRETES	X	X	X	X	X
MCP DISCRETES	X	X	X	X	X
FD 1	X	X	X	X	X
FD 2	X	X	X	X	X
LNAV	X	X	X	X	X
VOR/LOC	X	X	X	X	X
HDG SEL	X	X	X	X	X
APPROACH	X	X	X	X	X
SPD	X	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
CWS	X	X	X	X	X
B CMD	X	X	X	X	X
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
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
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
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
LCL 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
FLIGHT PATH ANGLE RATE	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

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DFCS - DIGITAL BUS INTERFACES - OUTPUT

Incorporates
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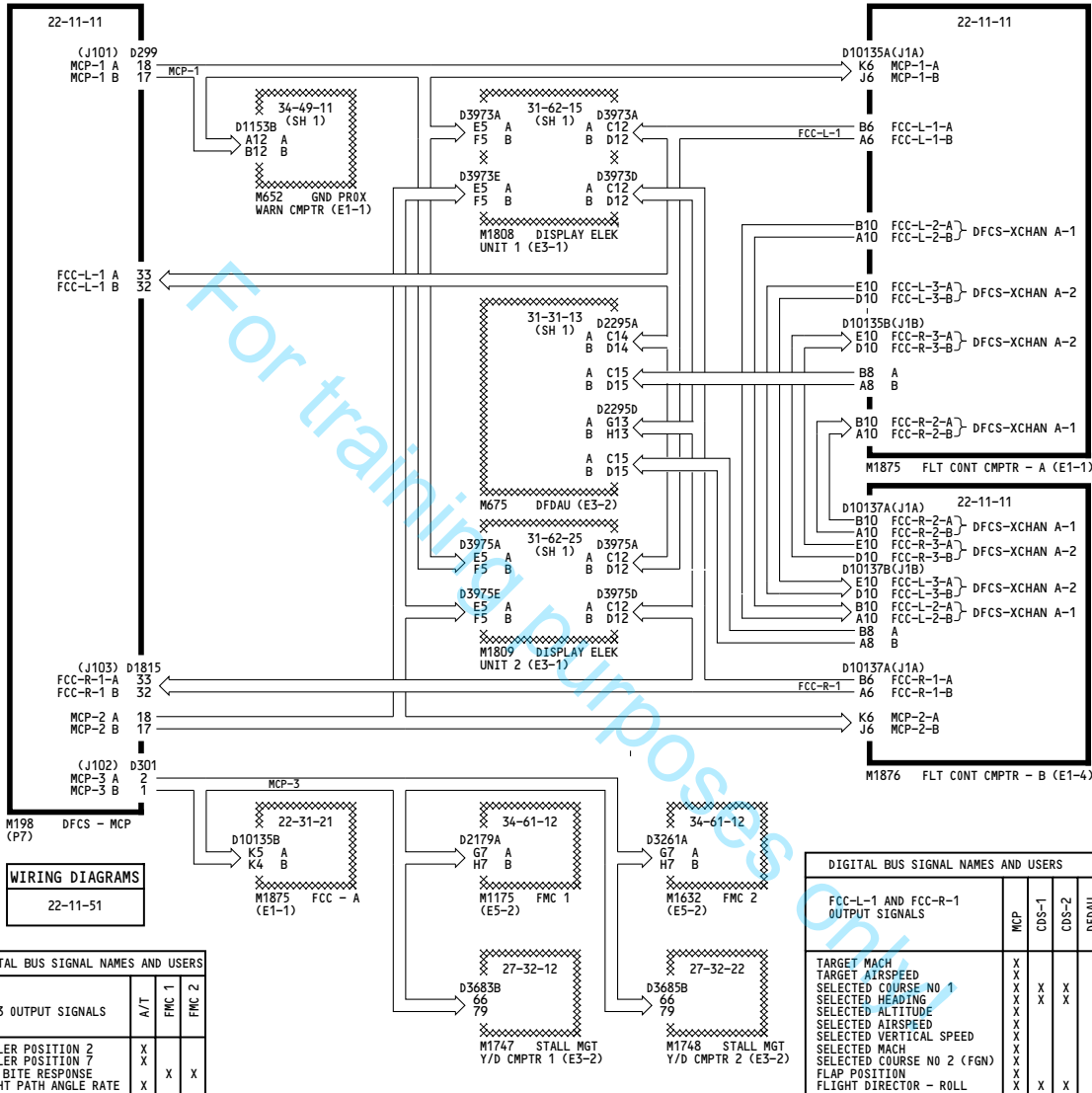
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DIGITAL BUS SIGNAL NAMES AND USERS	FCC-A	FCC-B	CD-1	CD-2	GPWS
MCP-1 AND MCP-2 OUTPUT SIGNALS					
SELECTED HEADING	X	X	X	X	X
SELECTED COURSE	X	X	X	X	X
ALTITUDE WINDOW WRAP	X	X	X	X	X
MCP MAINT DISCRETES	X	X	X	X	X
MCP DISCRETES	X	X	X	X	X
FD 1	X	X	X	X	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	A/T	FMC 1	FMC 2
MCP-3 OUTPUT SIGNALS			
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	CD-1	CD-2	DFDAU
FCC-L-1 AND FCC-R-1 OUTPUT SIGNALS				
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
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
LCL 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
FLIGHT PATH ANGLE RATE	X	X	X	X

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DFCS - DIGITAL BUS INTERFACES - OUTPUT

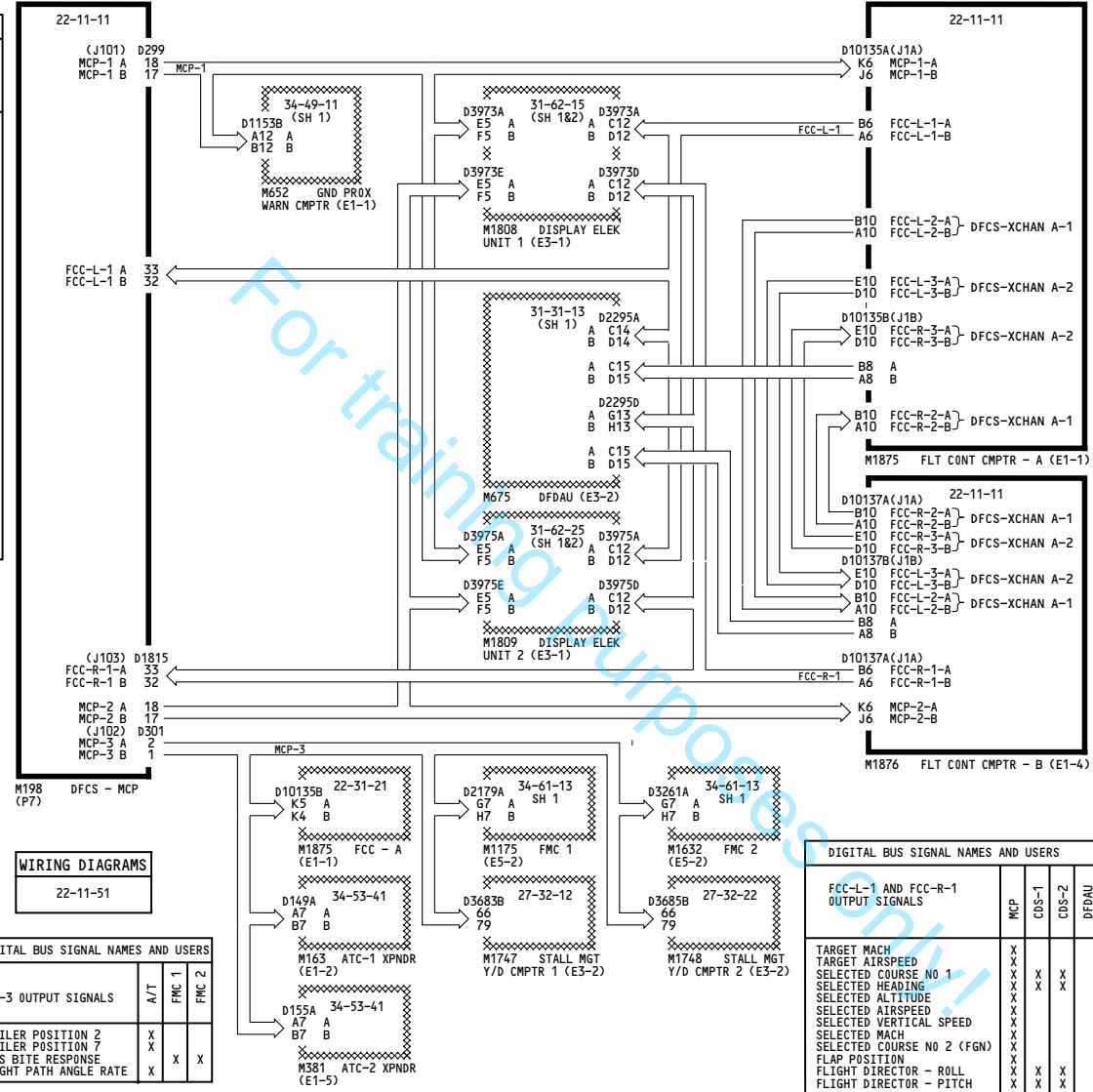
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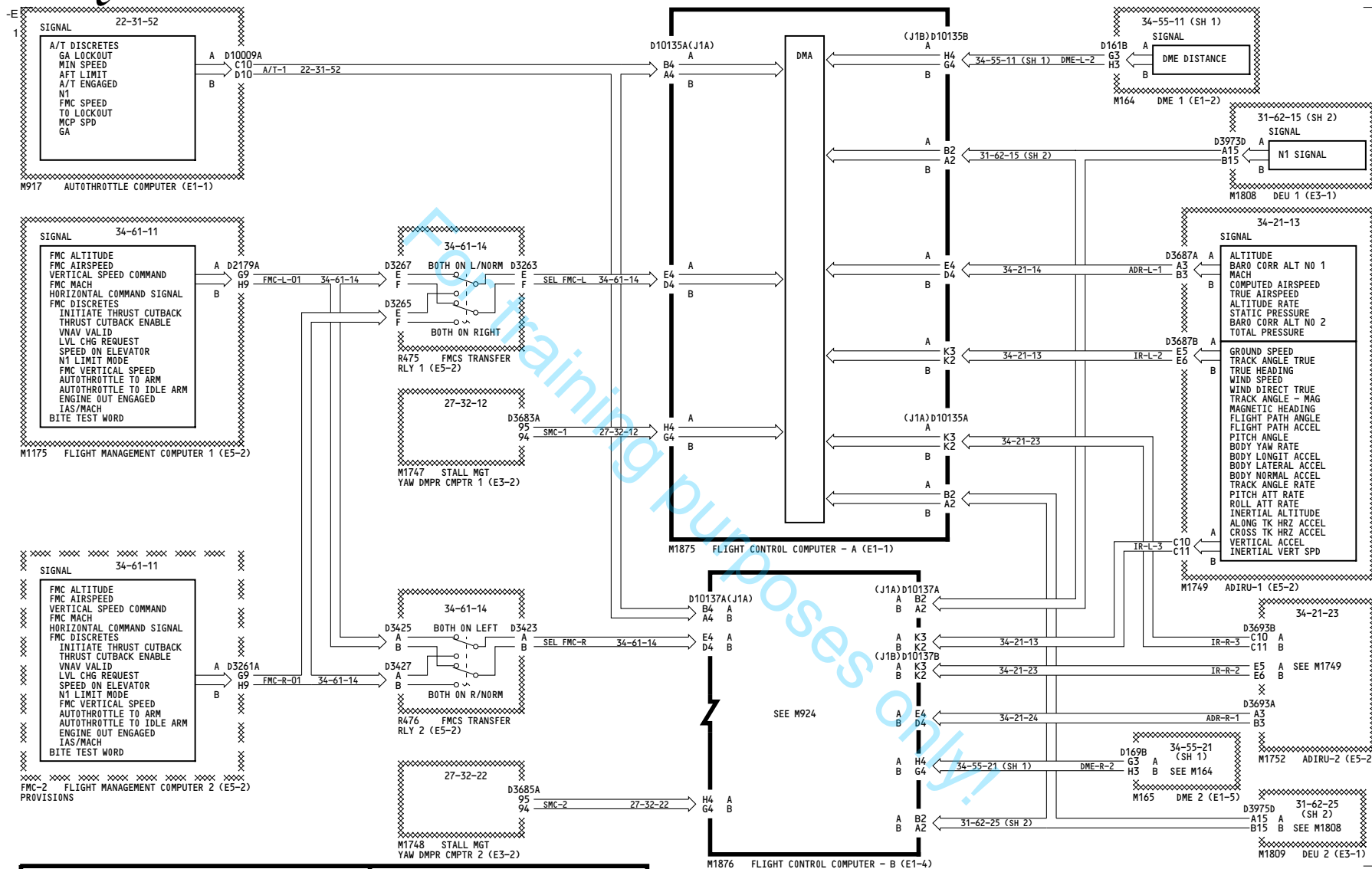
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DIGITAL BUS SIGNAL NAMES AND USERS					
MCP-1 AND MCP-2 OUTPUT SIGNALS	FCC-A	FCC-B	CD-1	CD-2	GPWS
SELECTED HEADING	X	X	X	X	X
SELECTED COURSE	X	X	X	X	X
ALTITUDE WINDOW WRAP	X	X	X	X	X
MCP MAINT DISCRETES	X	X	X	X	X
MCP DISCRETES	X	X	X	X	X
FD 1	X	X	X	X	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
B CMD	X	X	X	X	X
CWS	X	X	X	X	X
B CWS	X	X	X	X	X
AIRSPEED/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
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
FLIGHT PATH ANGLE RATE	X	X	X





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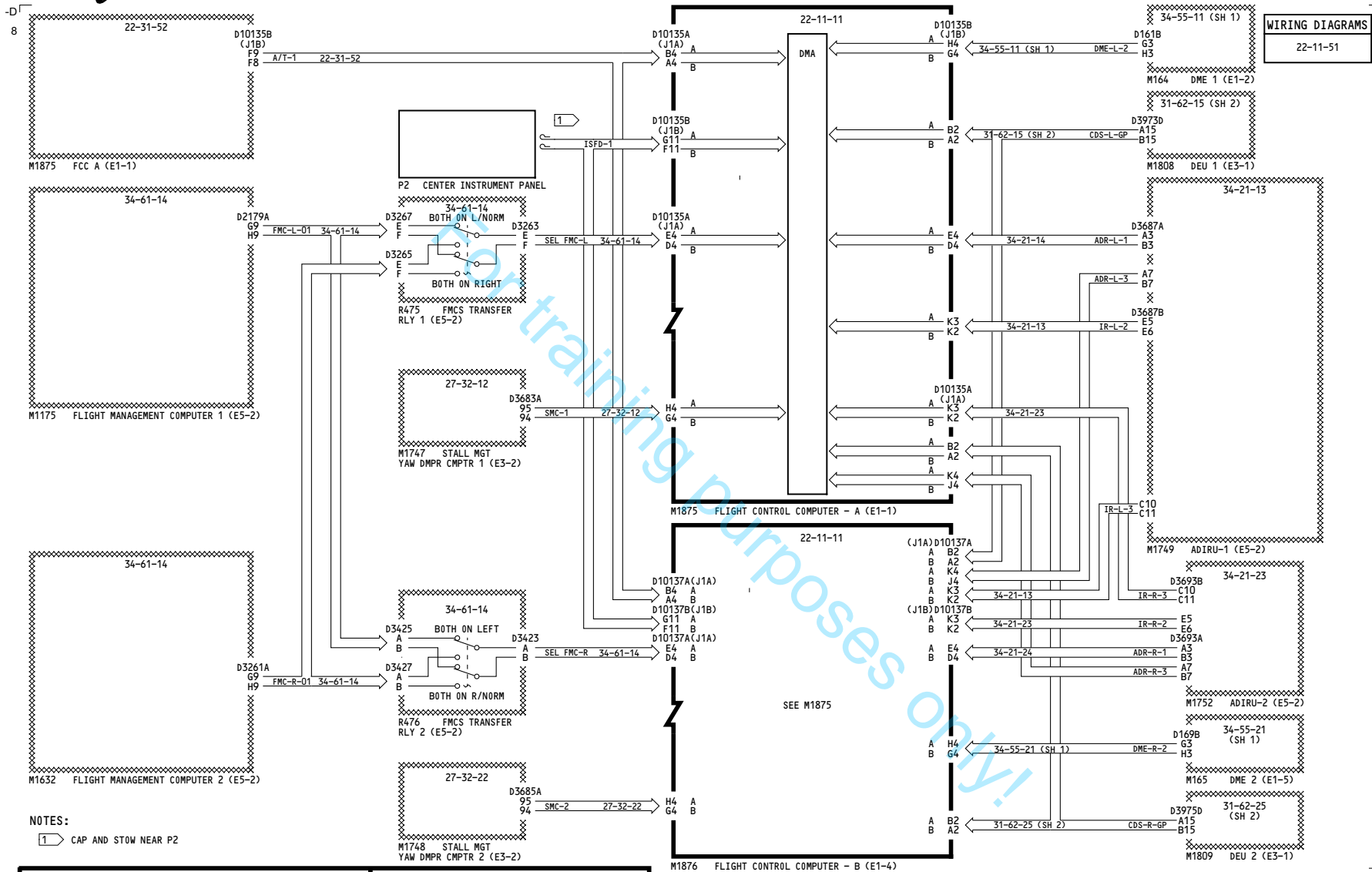
DFCS - DIGITAL BUS INTERFACES - INPUT

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DFCS - DIGITAL BUS INTERFACES - INPUT

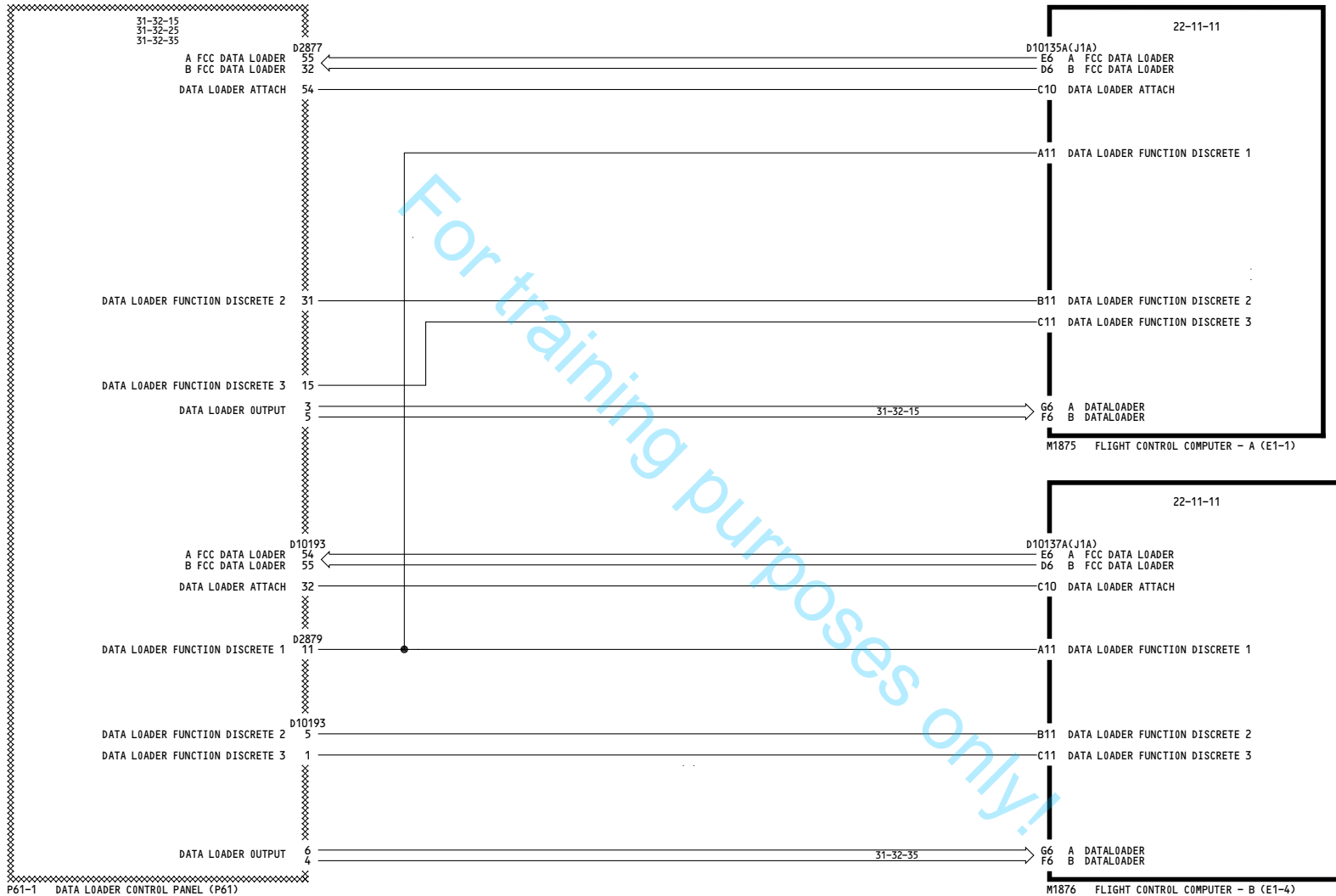
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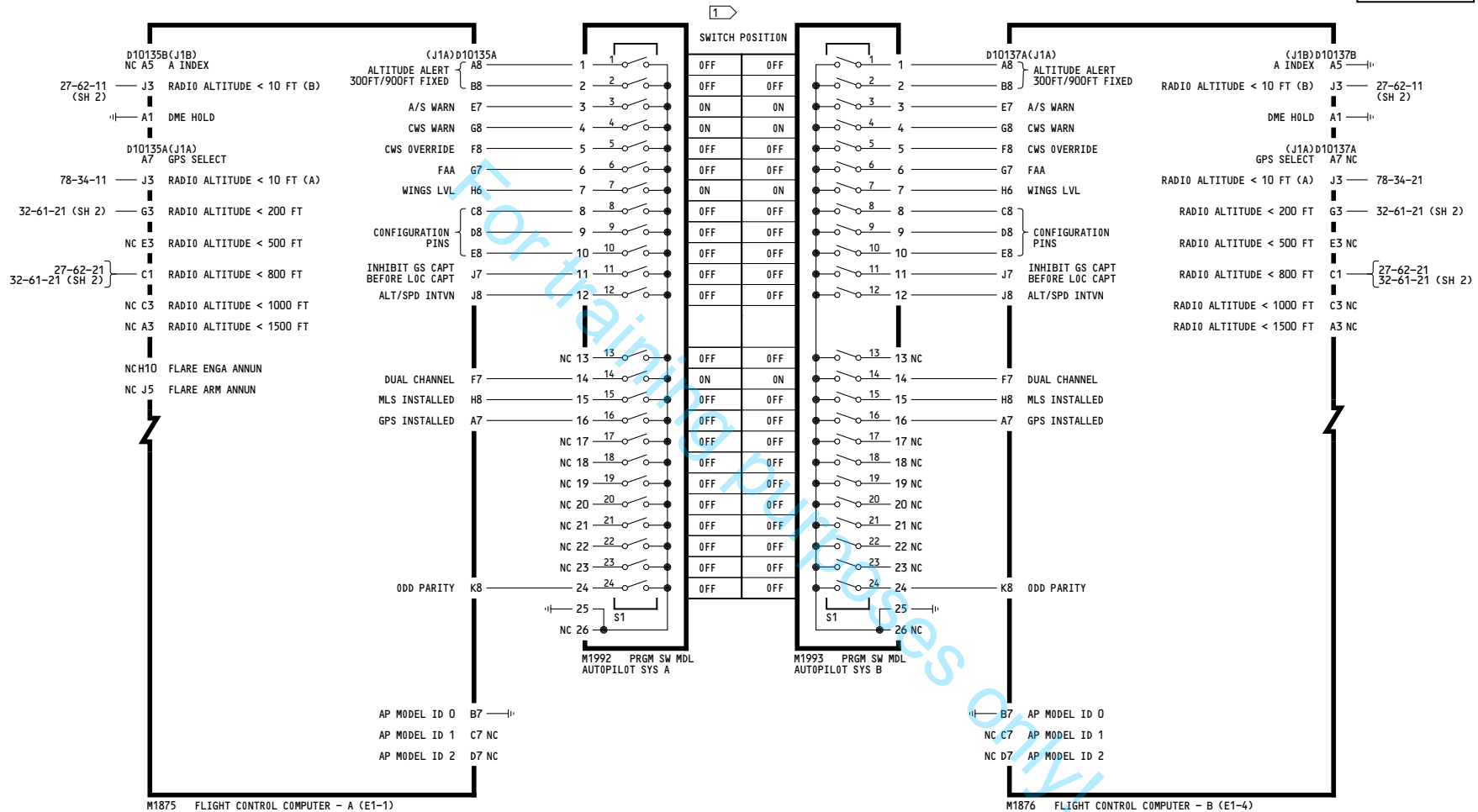
DFCS - DIGITAL BUS
INTERFACES - DATA LOADER

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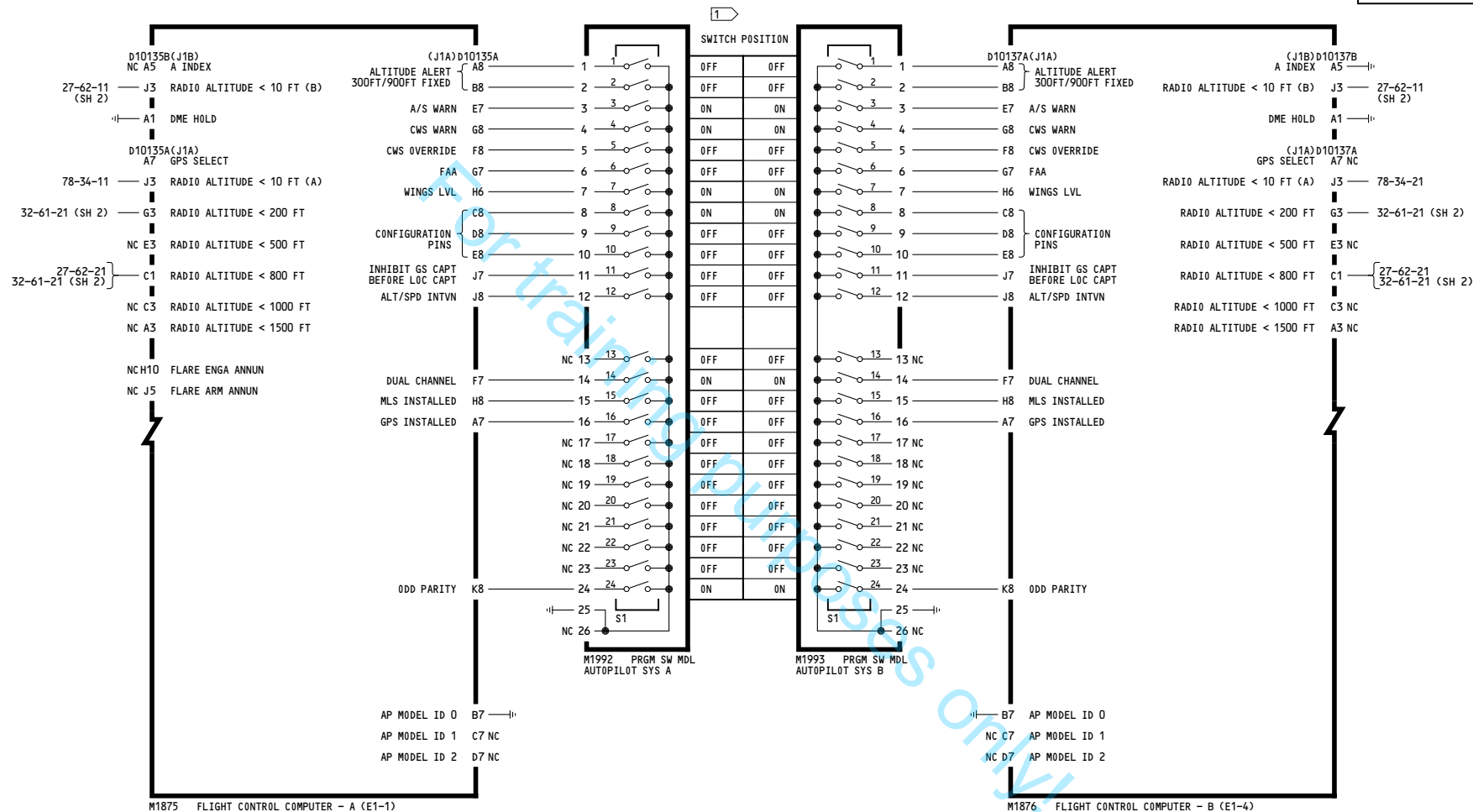
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ON = CLOSED

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OFF = OPEN
ON = CLOSED

YD006

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

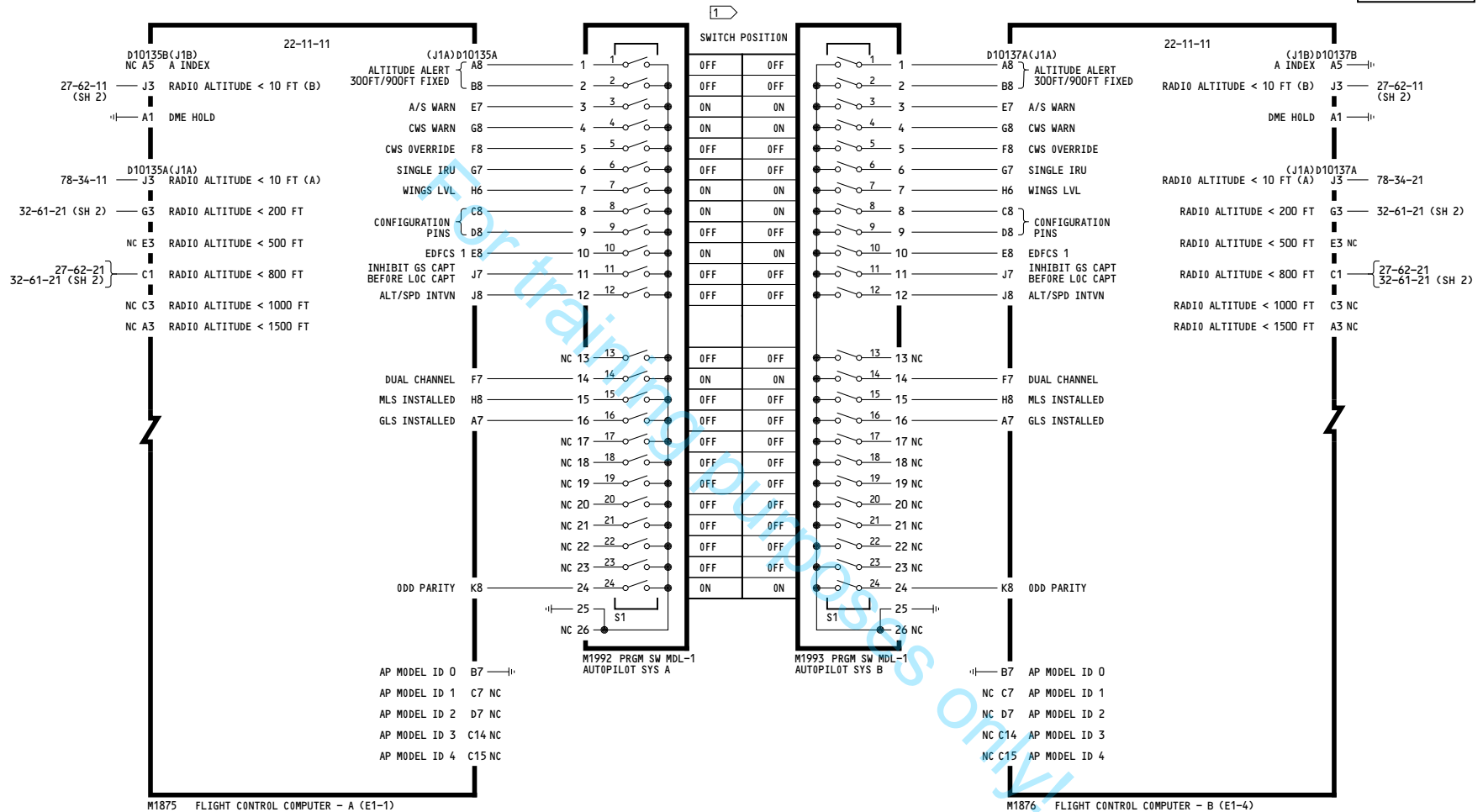
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OFF = OPEN
ON = CLOSED

YD007-YD020

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

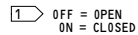
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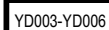
WIRING DIAGRAMS
22-11-75



EDFCS - A AND B OPTION PINS AND DISCRETE OUTPUTS

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Sheet 2
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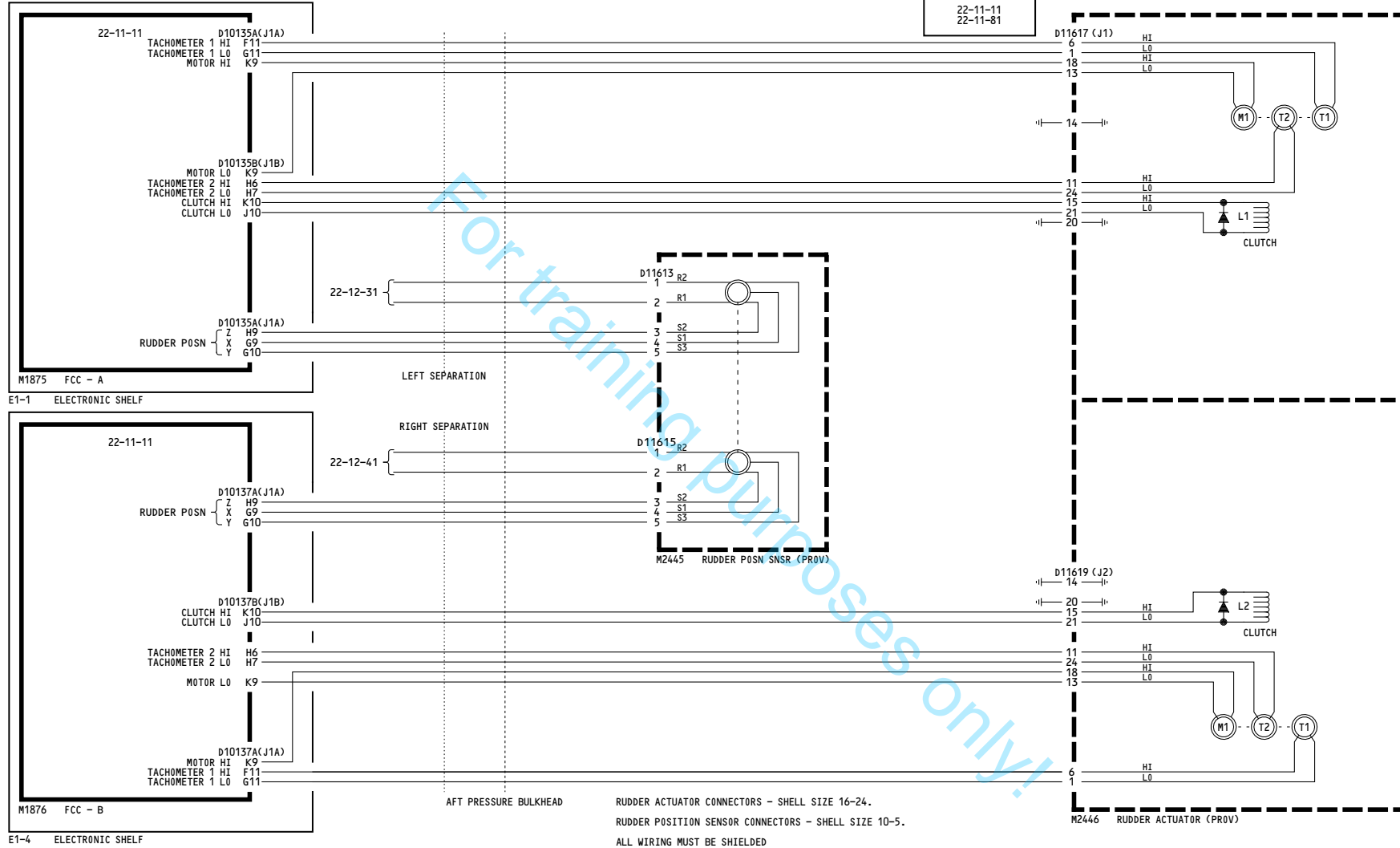


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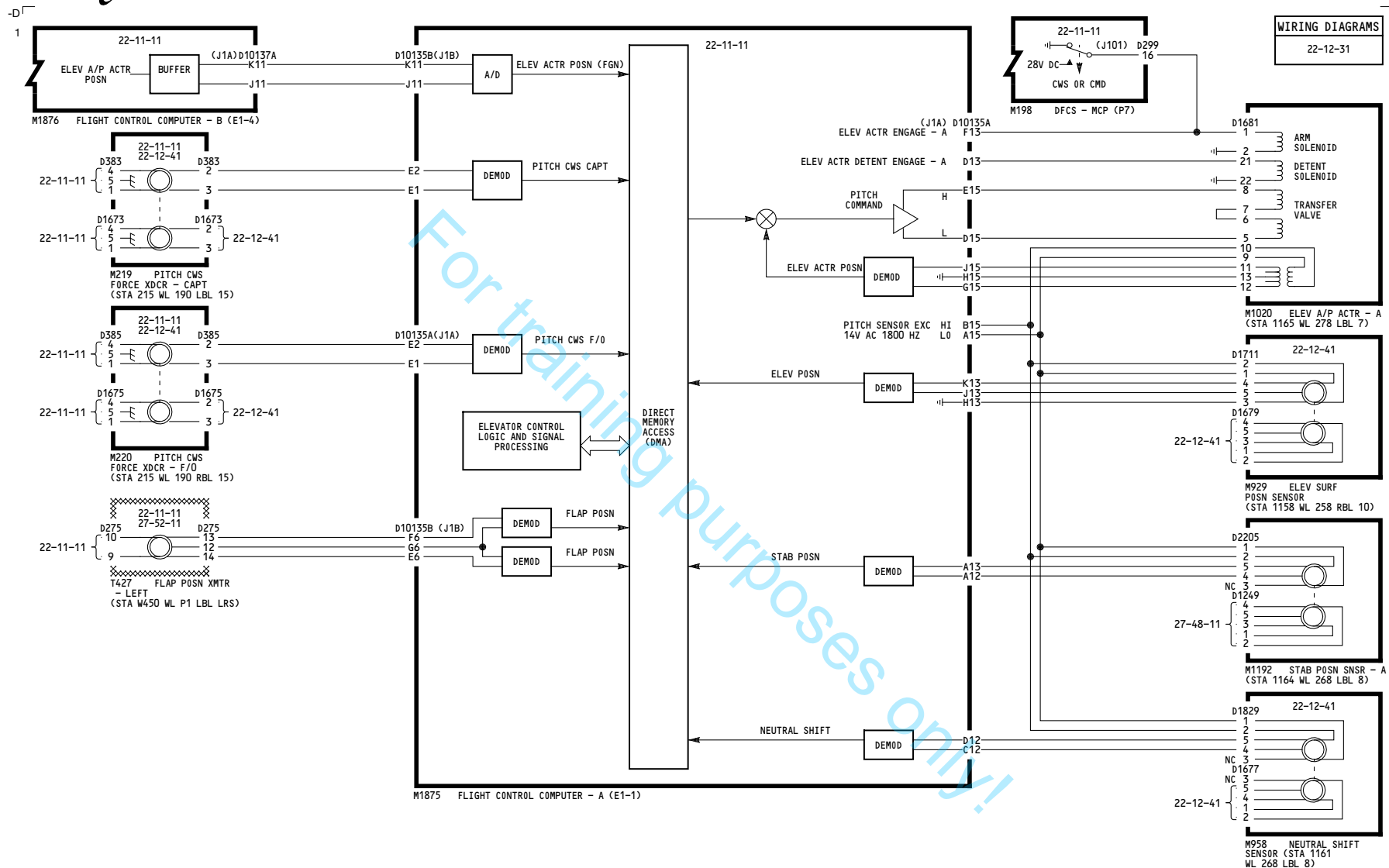
**DFCS - RUDDER COMMAND
AND CONTROL**

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DFCS - A A/P PITCH SENSORS AND ACTUATORS

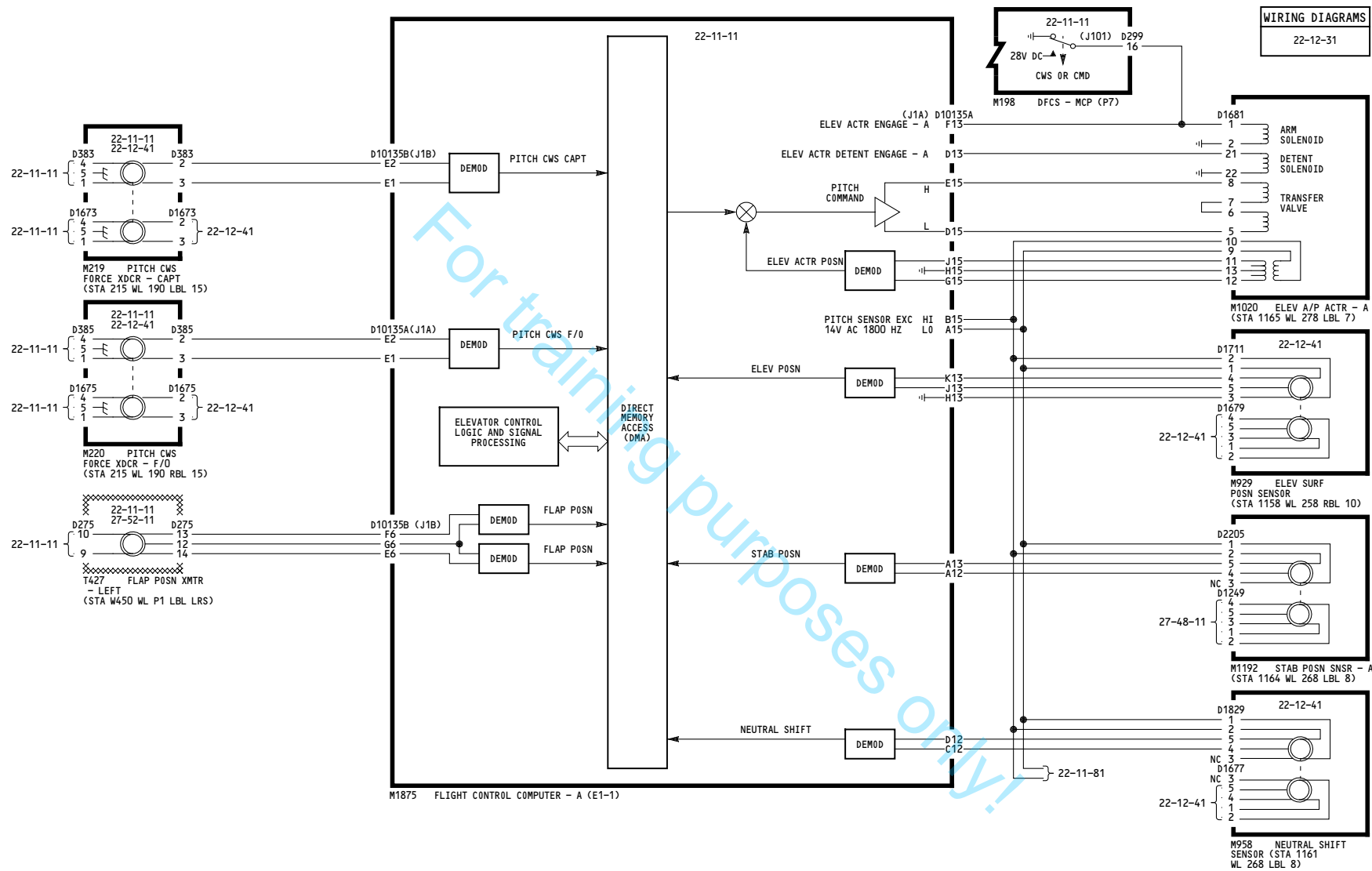
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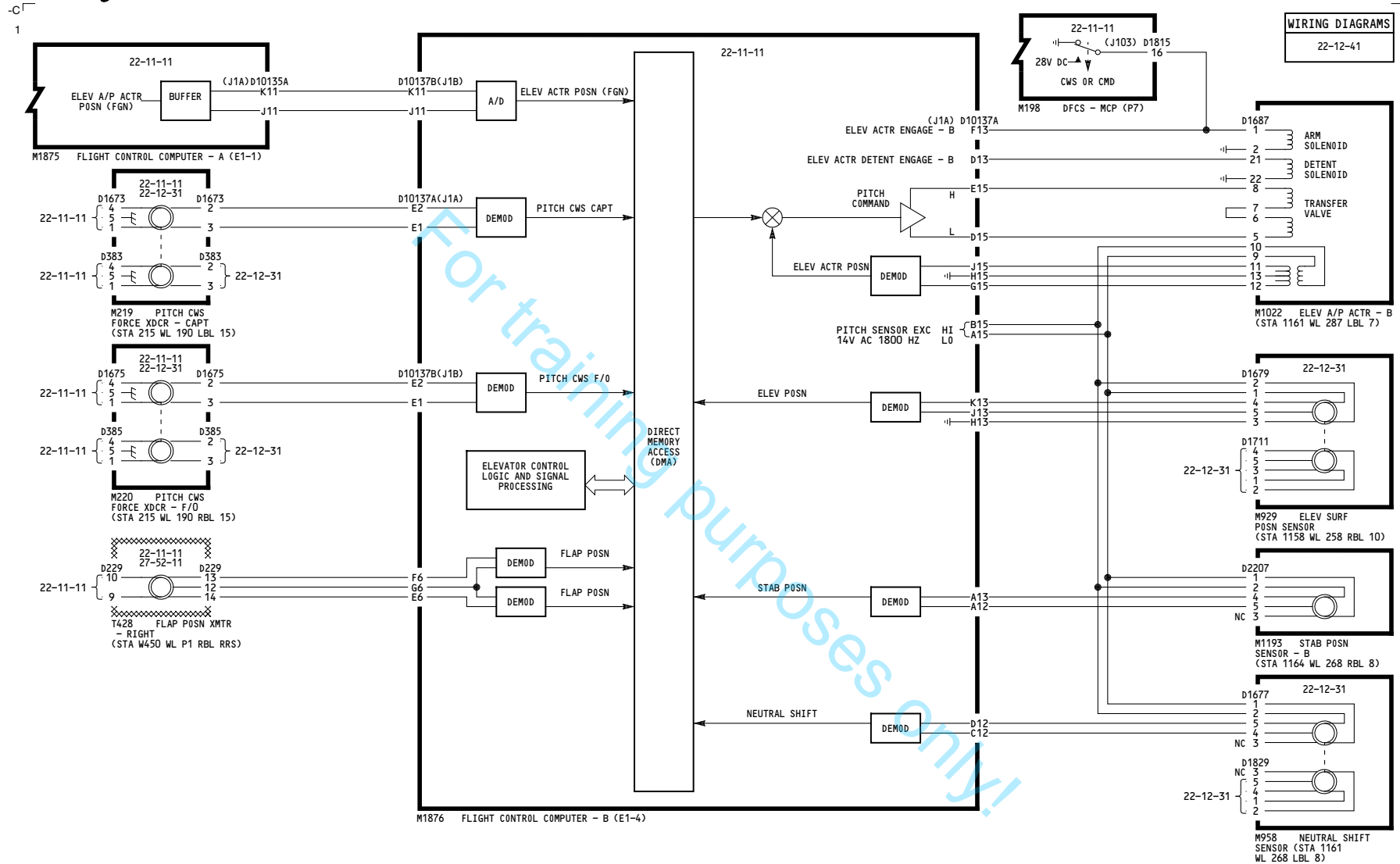
**DFCS - A A/P PITCH
SENSORS AND ACTUATORS**

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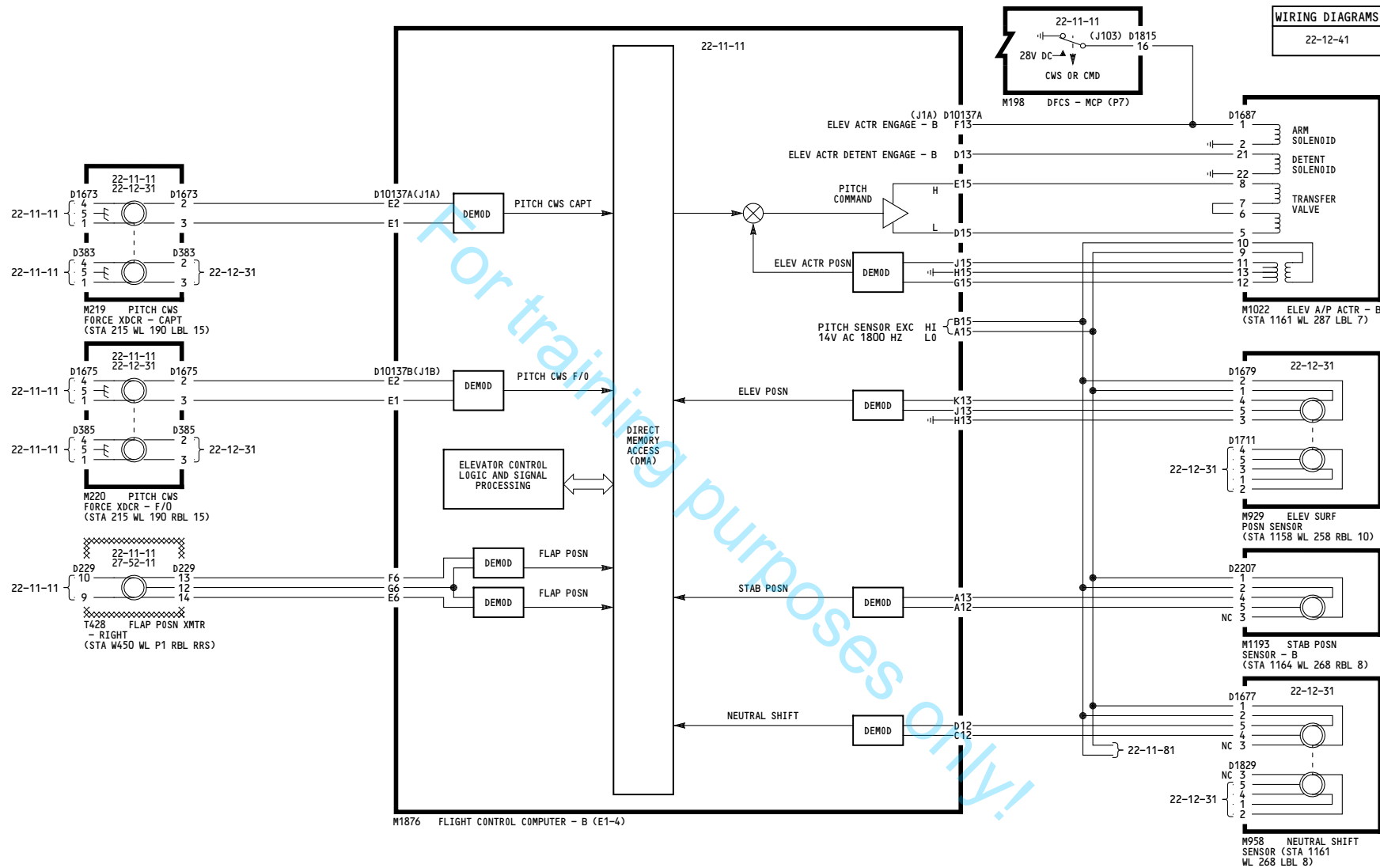
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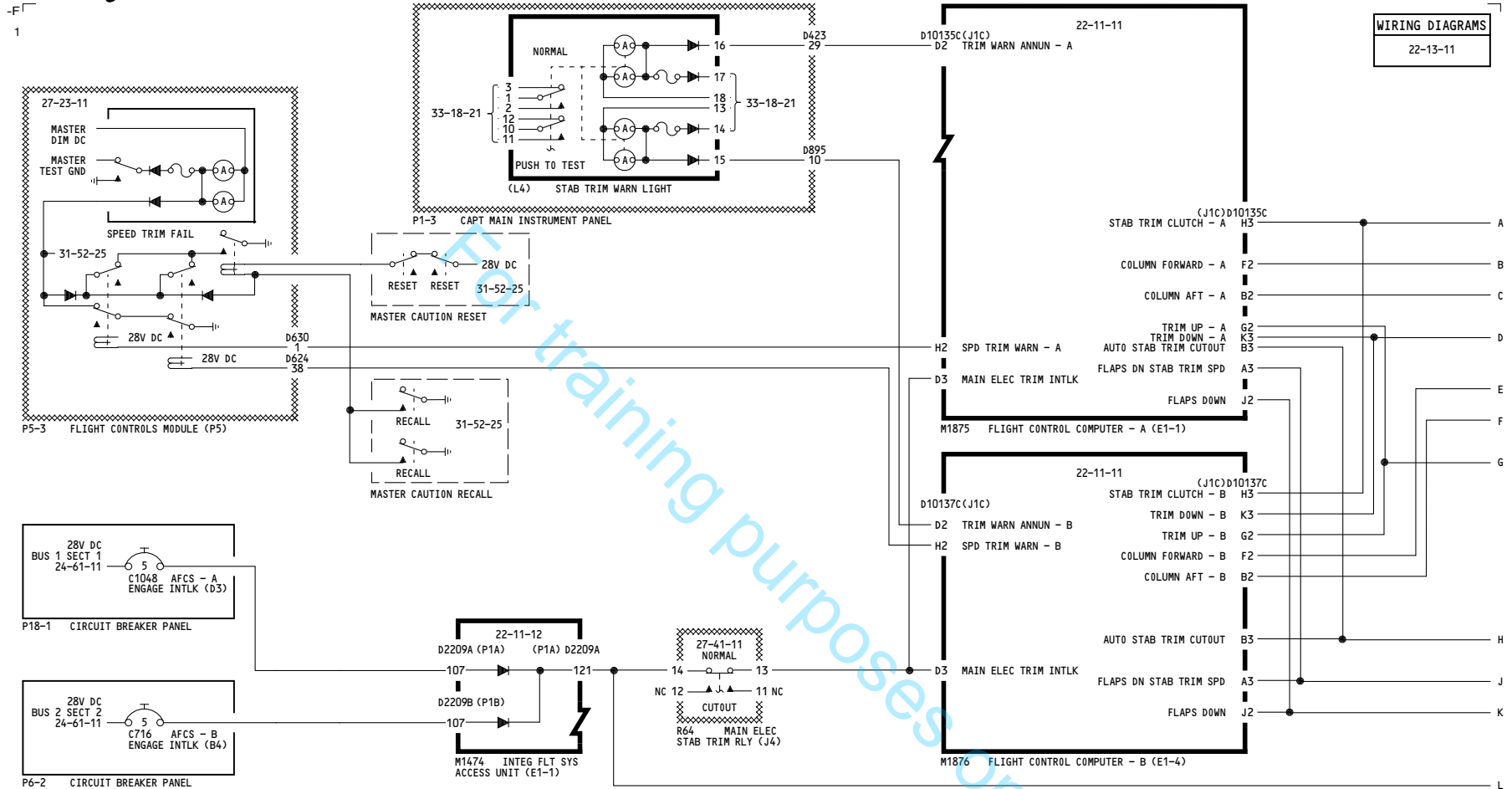
**DFCS - B A/P PITCH
SENSORS AND ACTUATORS**

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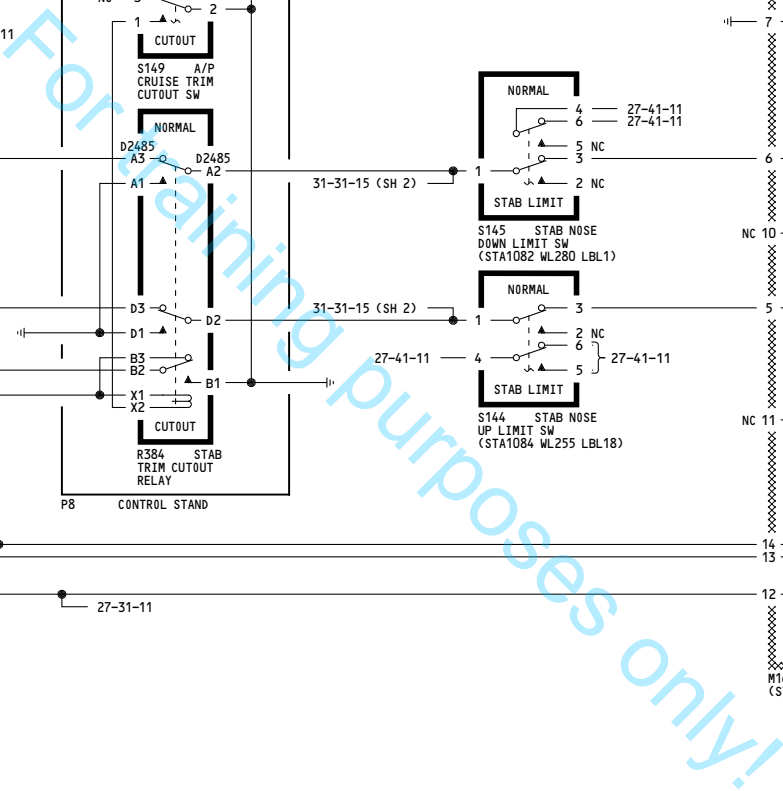
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**DFCS - A AND B SPEED
AND STABILIZER TRIM**

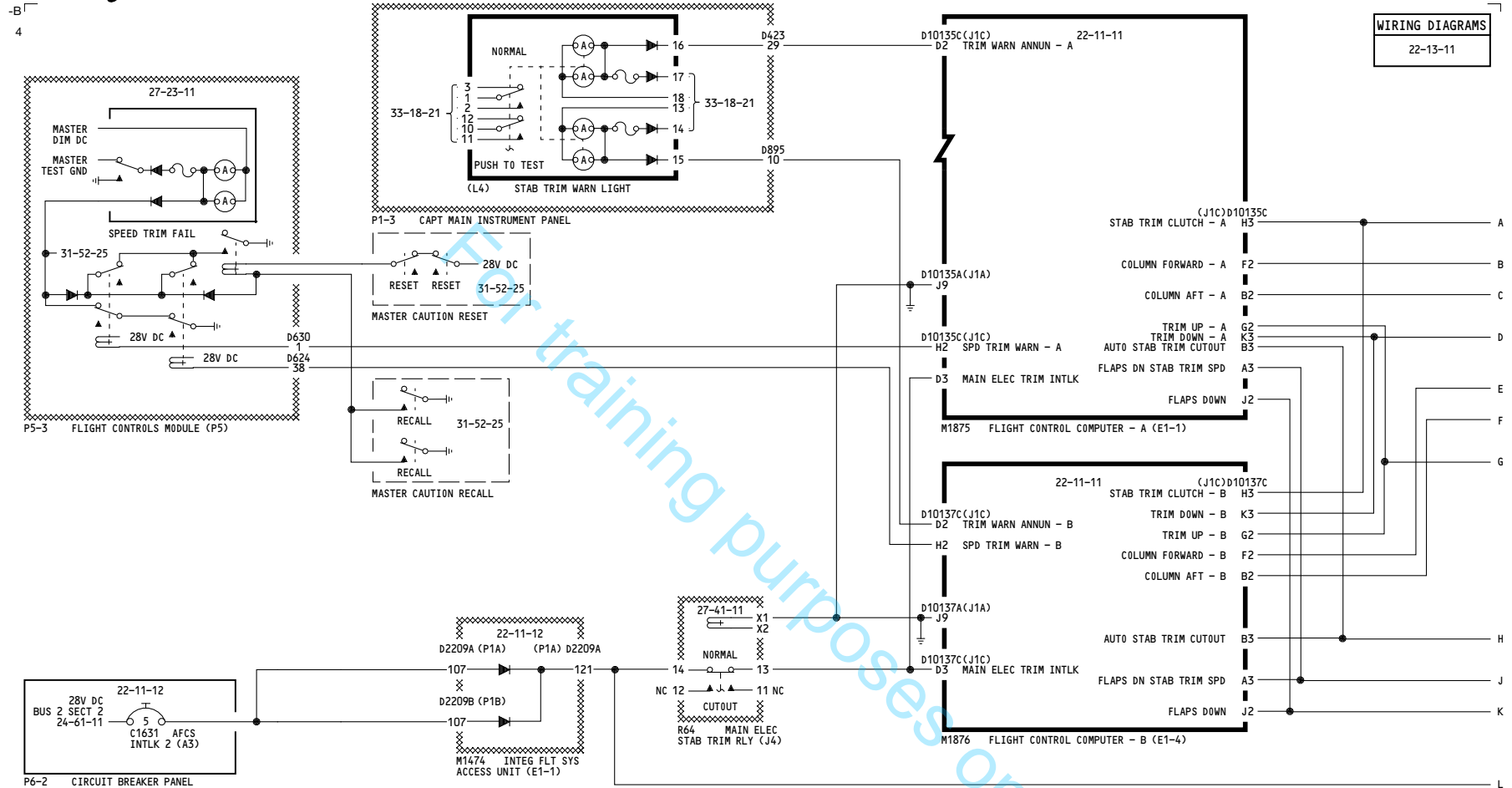
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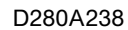
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**DFCS - A AND B SPEED
AND STABILIZER TRIM**

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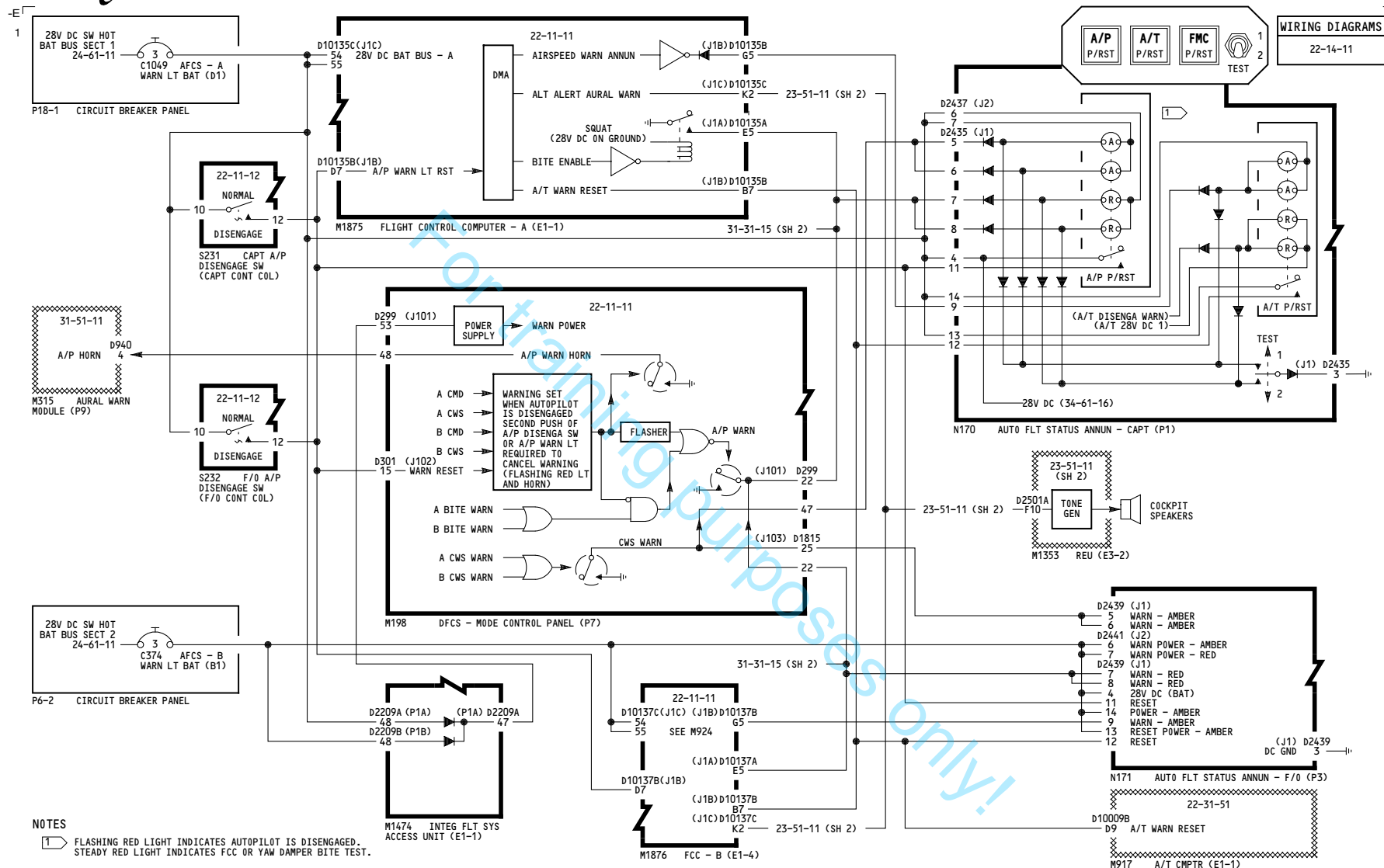
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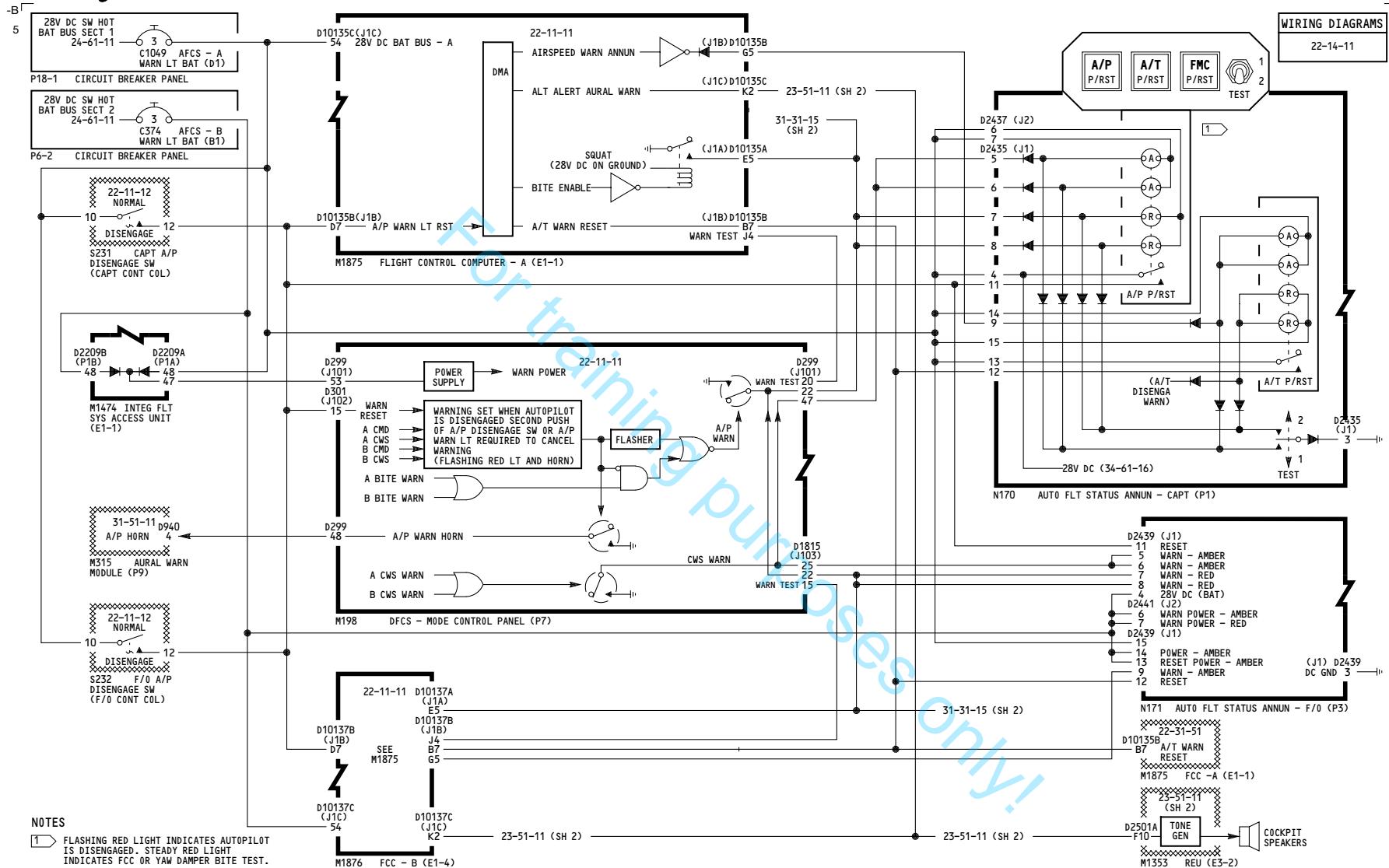
DFCS - ANNUNCIATION AND WARNING

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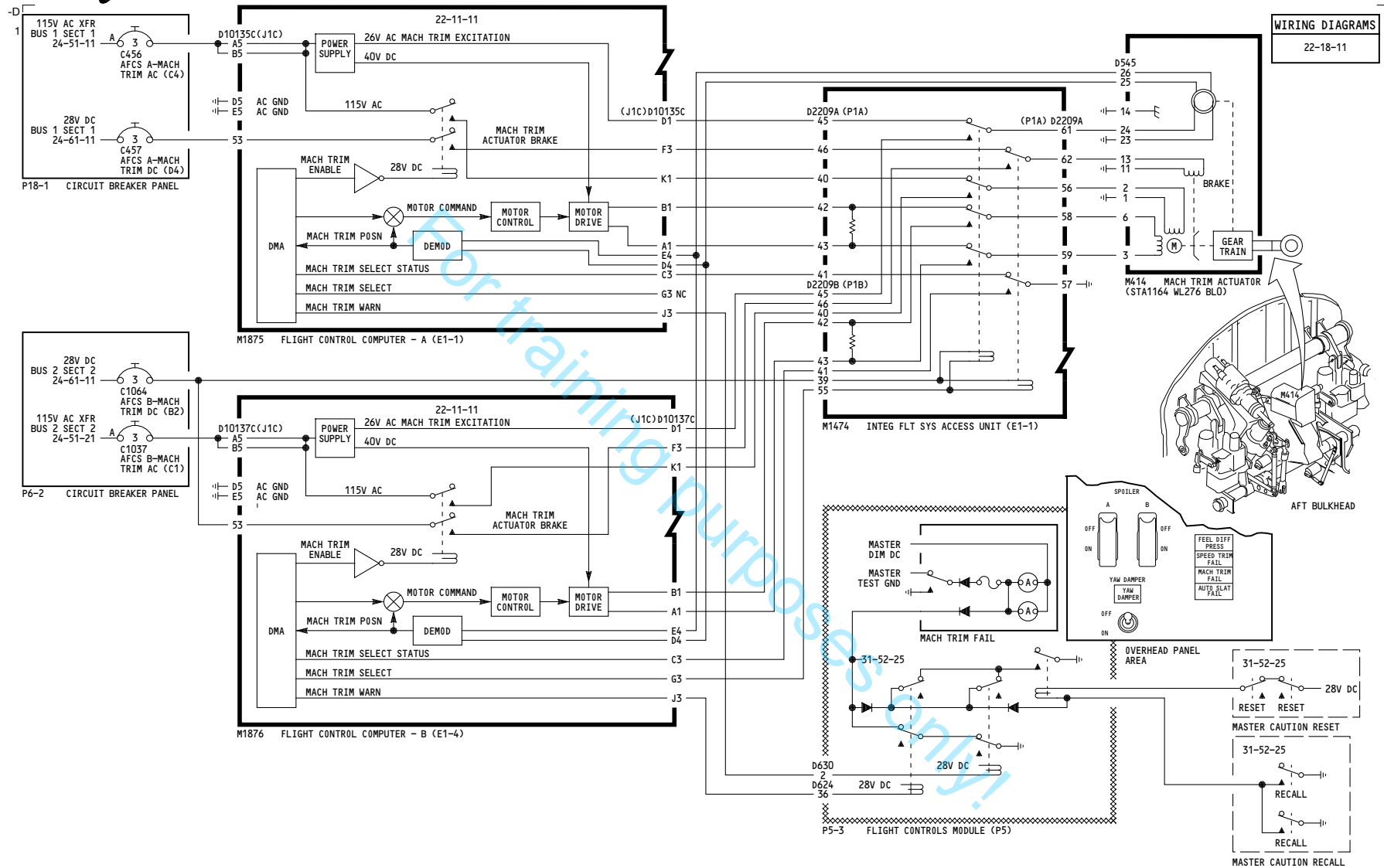
DFCS - ANNUNCIATION AND WARNING

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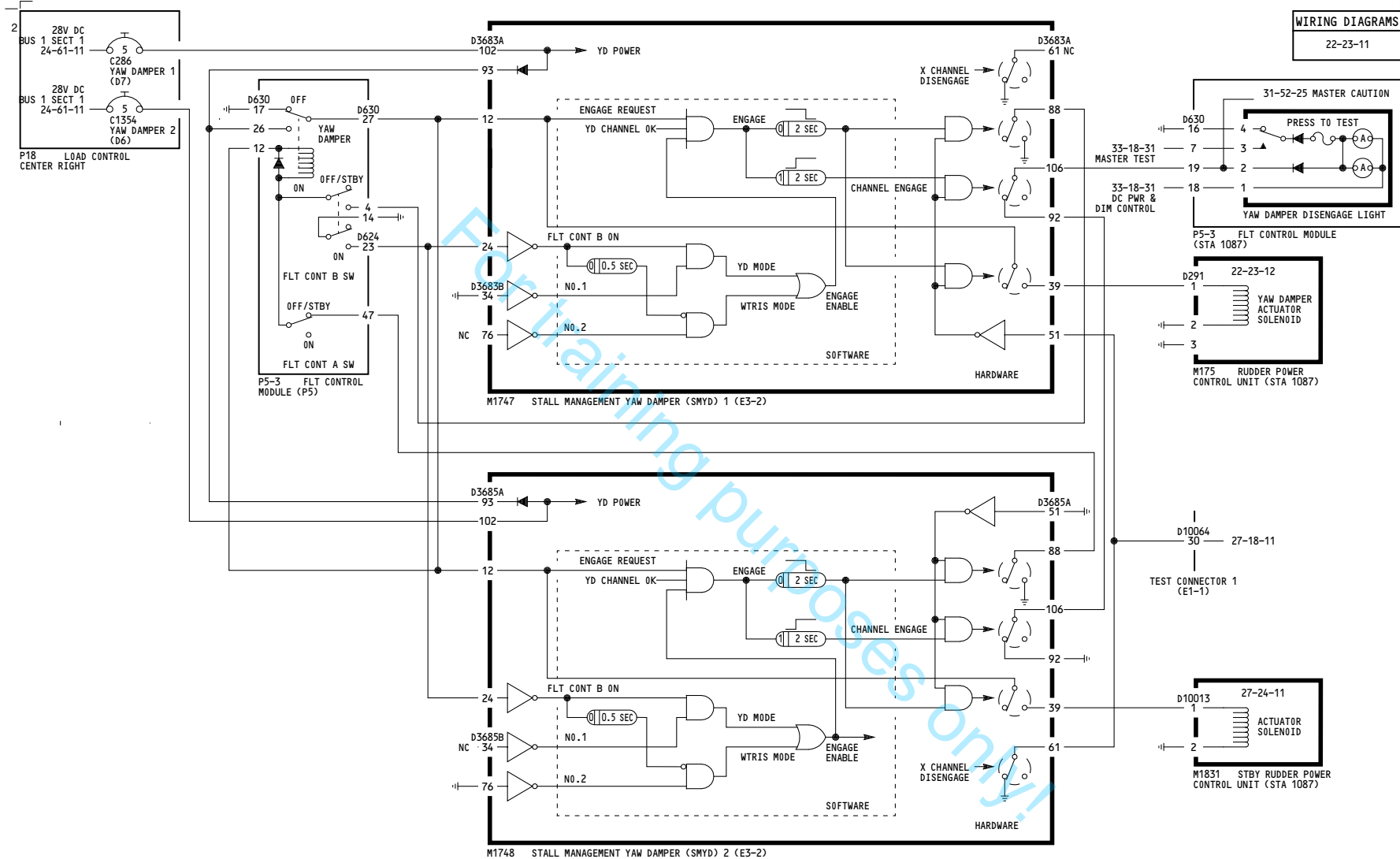
DFCS - MACH TRIM

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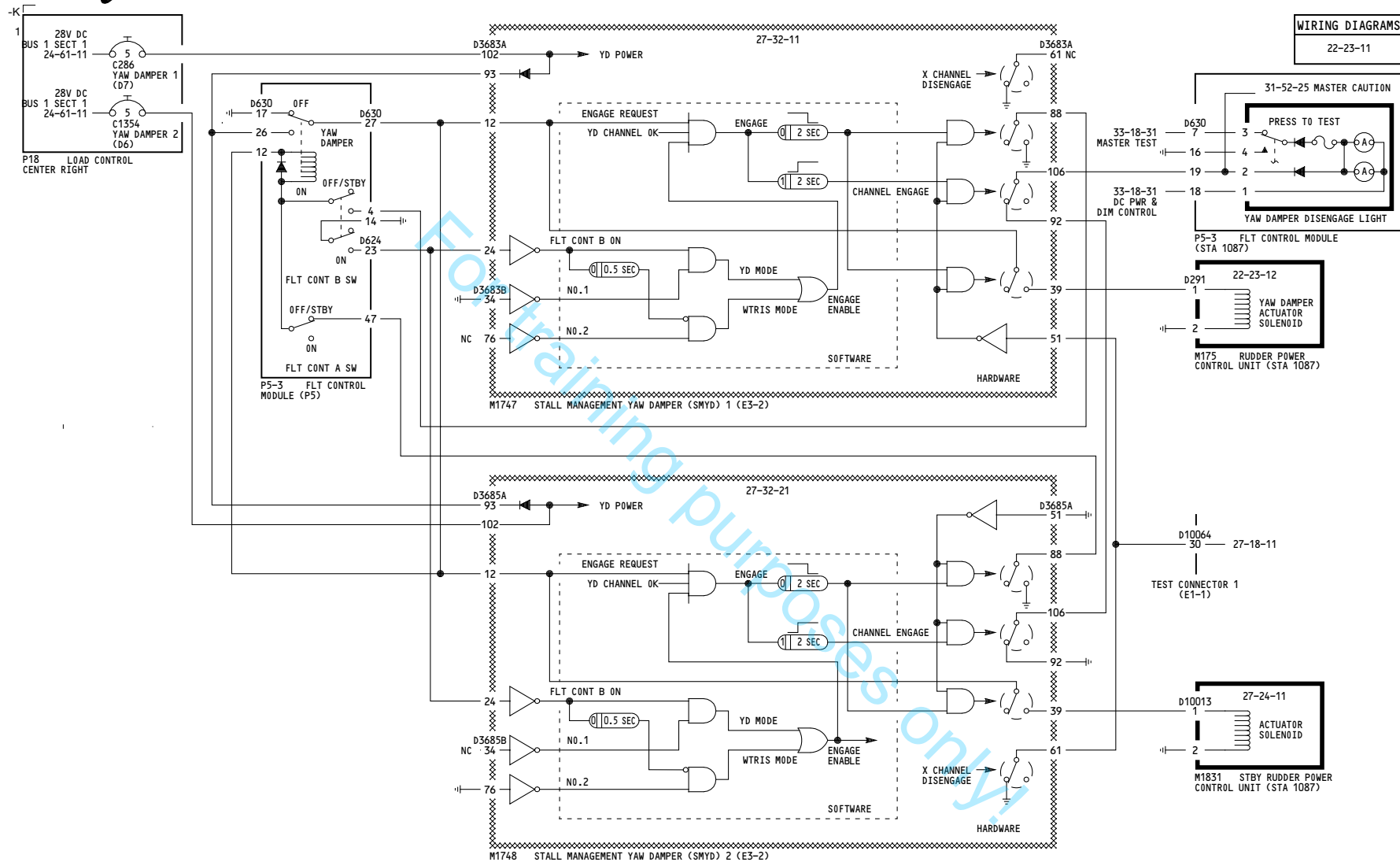
YAW DAMPER ENGAGE INTERLOCKS

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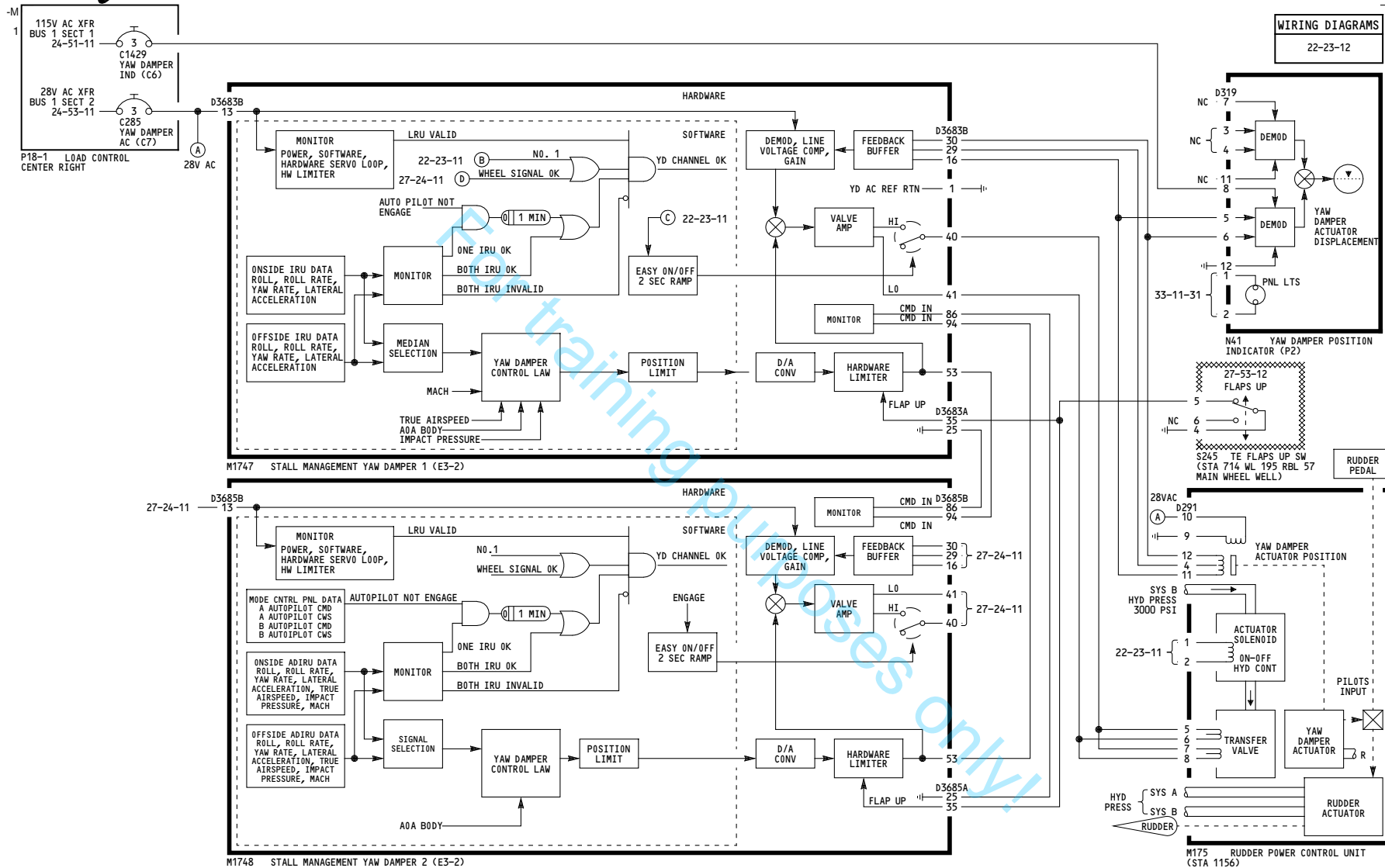
YAW DAMPER ENGAGE INTERLOCKS

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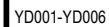
YAW DAMPER RUDDER CONTROL

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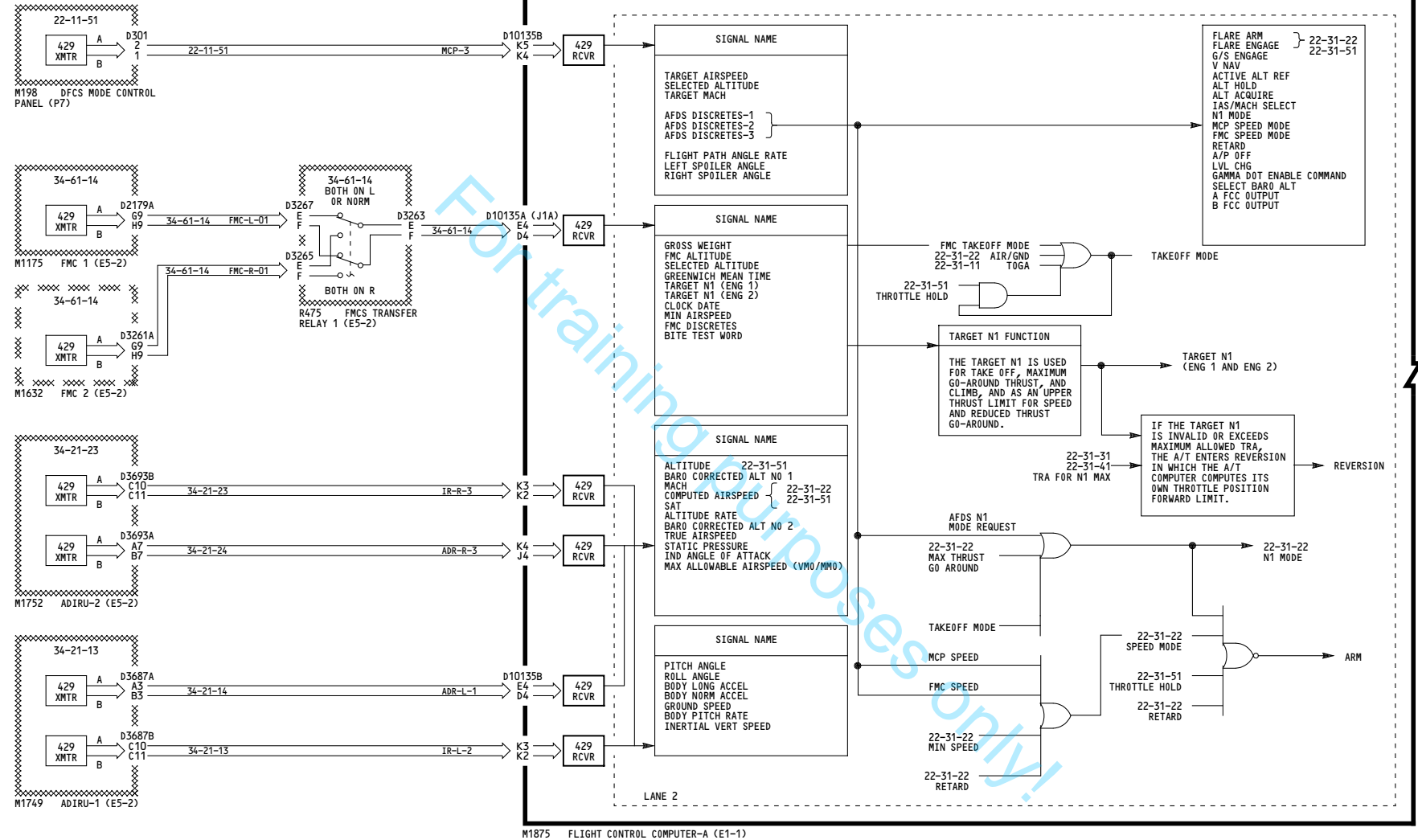


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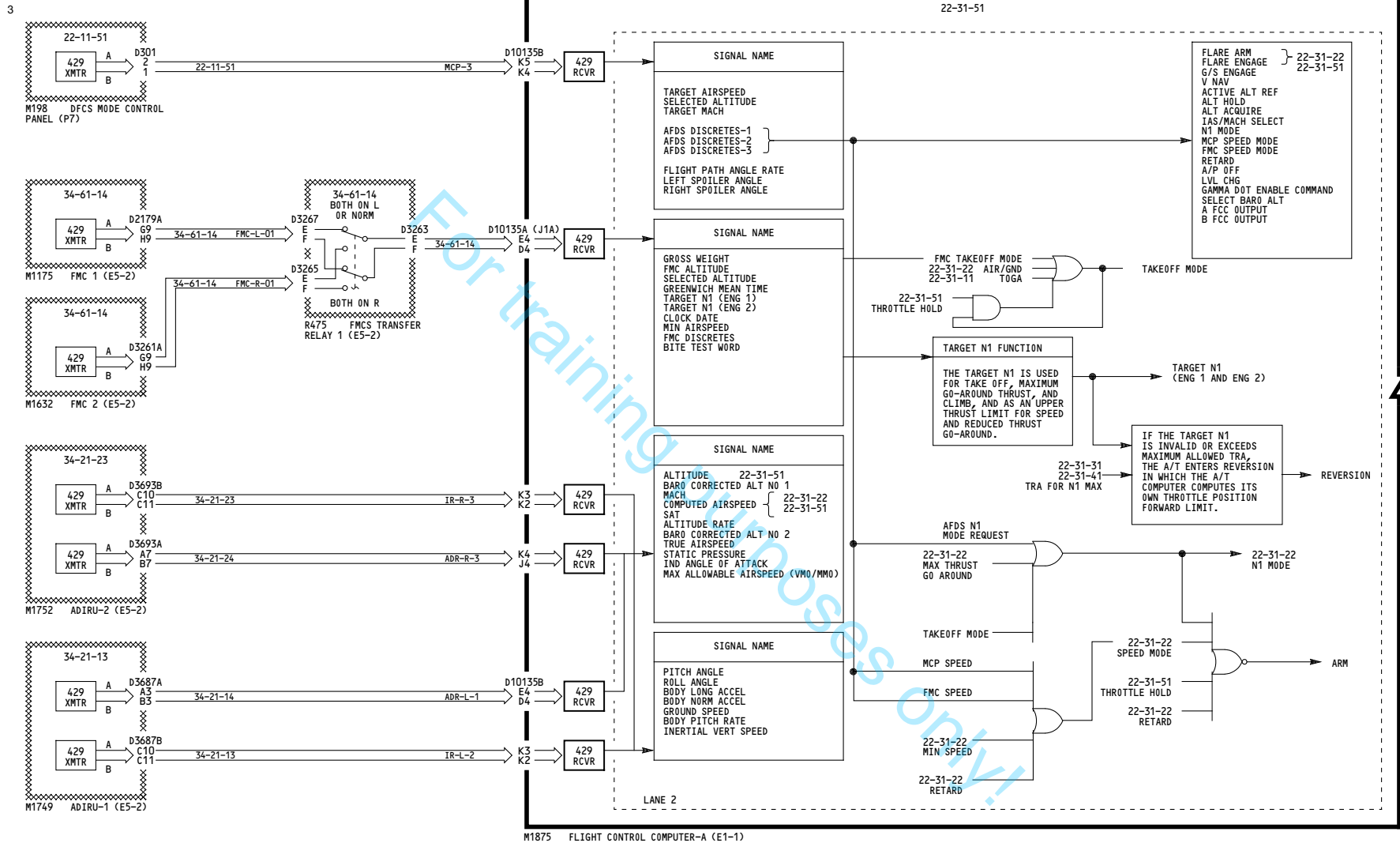
AUTOTHROTTLE SYSTEM - DIGITAL INPUTS FROM MCP, FMC, ADIRU

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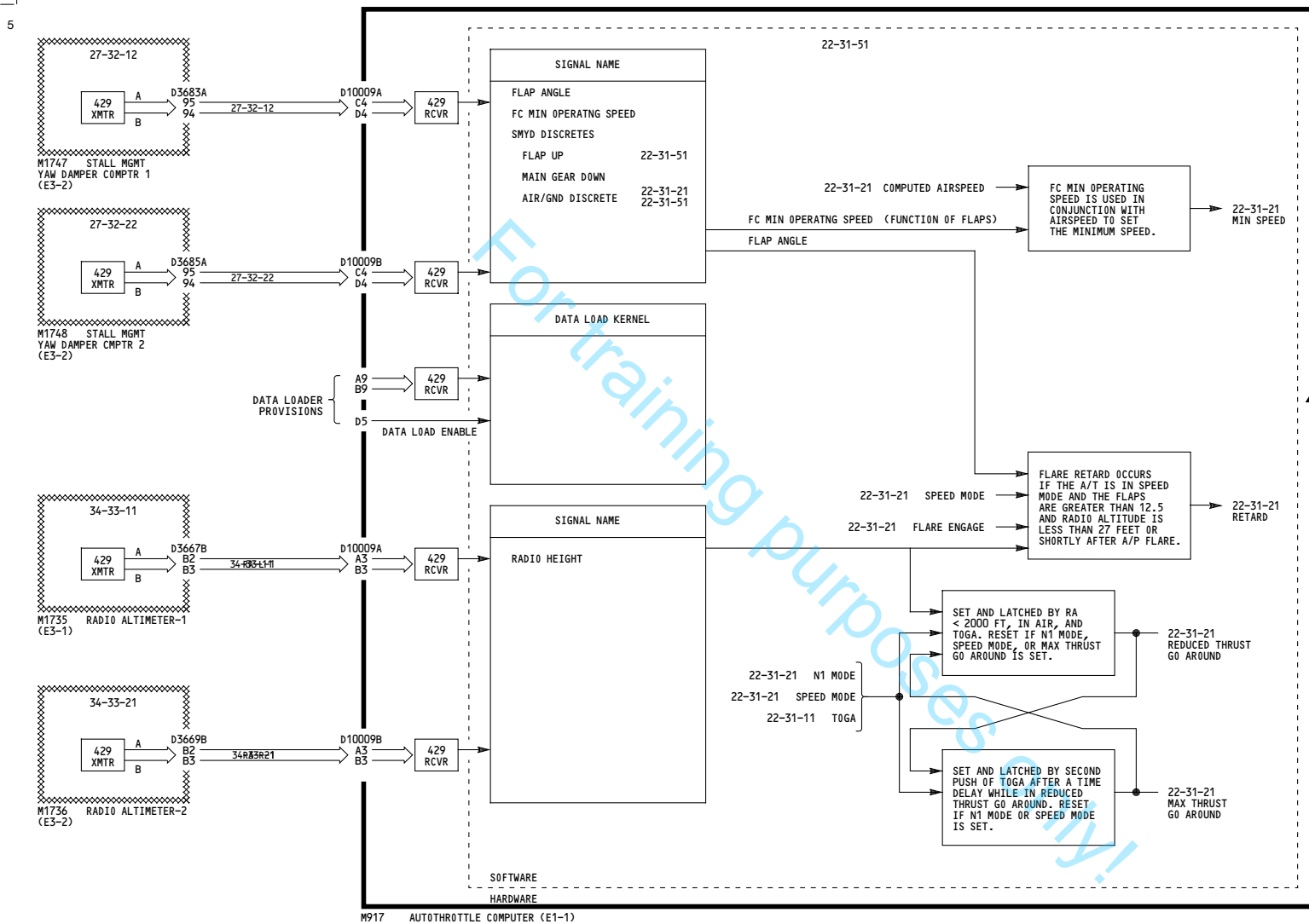
AUTOTHROTTLE SYSTEM - DIGITAL INPUTS FROM MCP, FMC, ADIRU

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

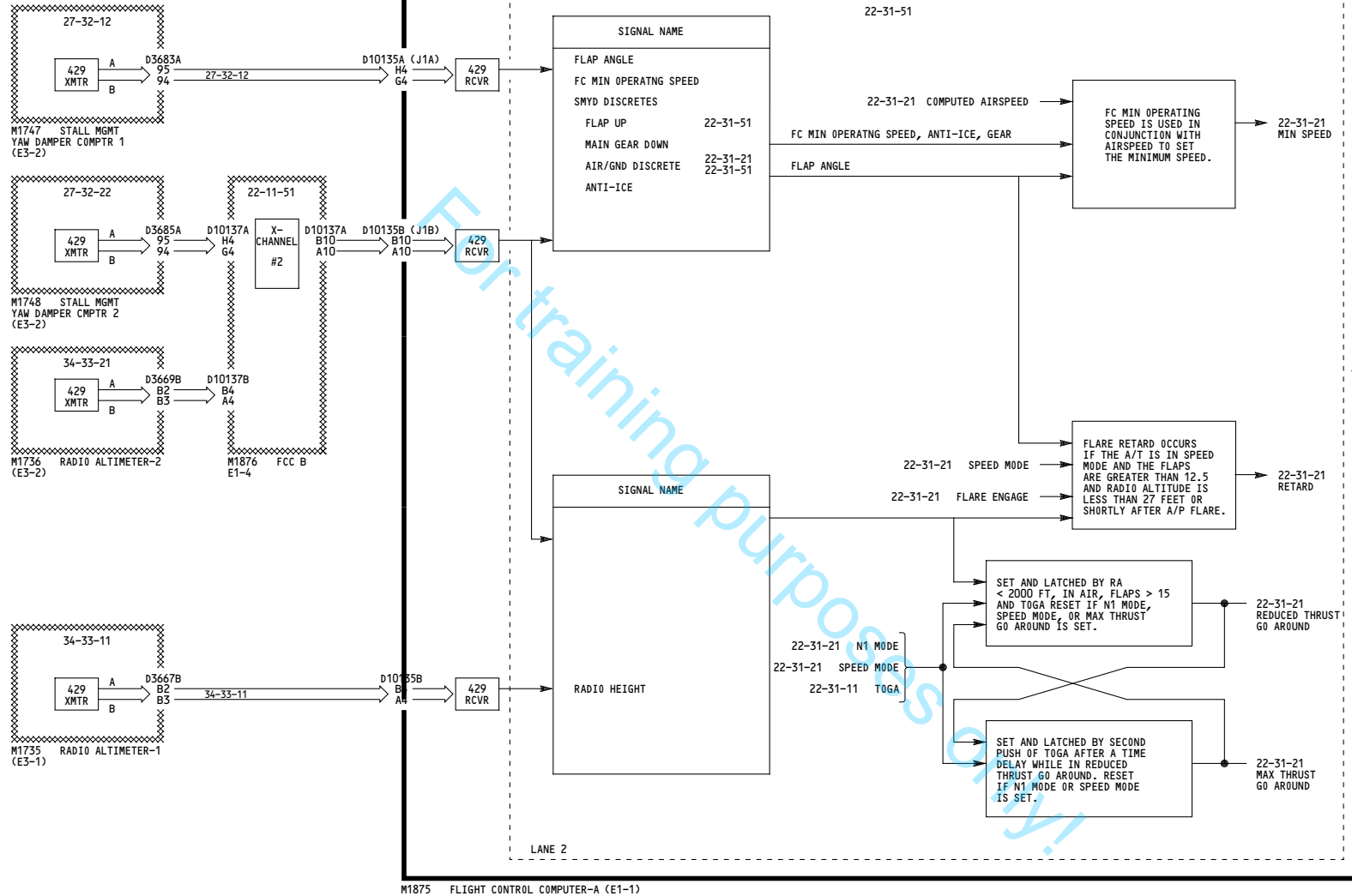
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AUTOTHROTTLE SYSTEM - DIGITAL INPUTS FROM SMYDC'S AND RA'S

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AUTOTHROTTLE SYSTEM - SERVO MOTOR 1

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AUTOTHROTTLE SYSTEM - SERVO MOTOR 2

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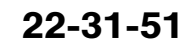
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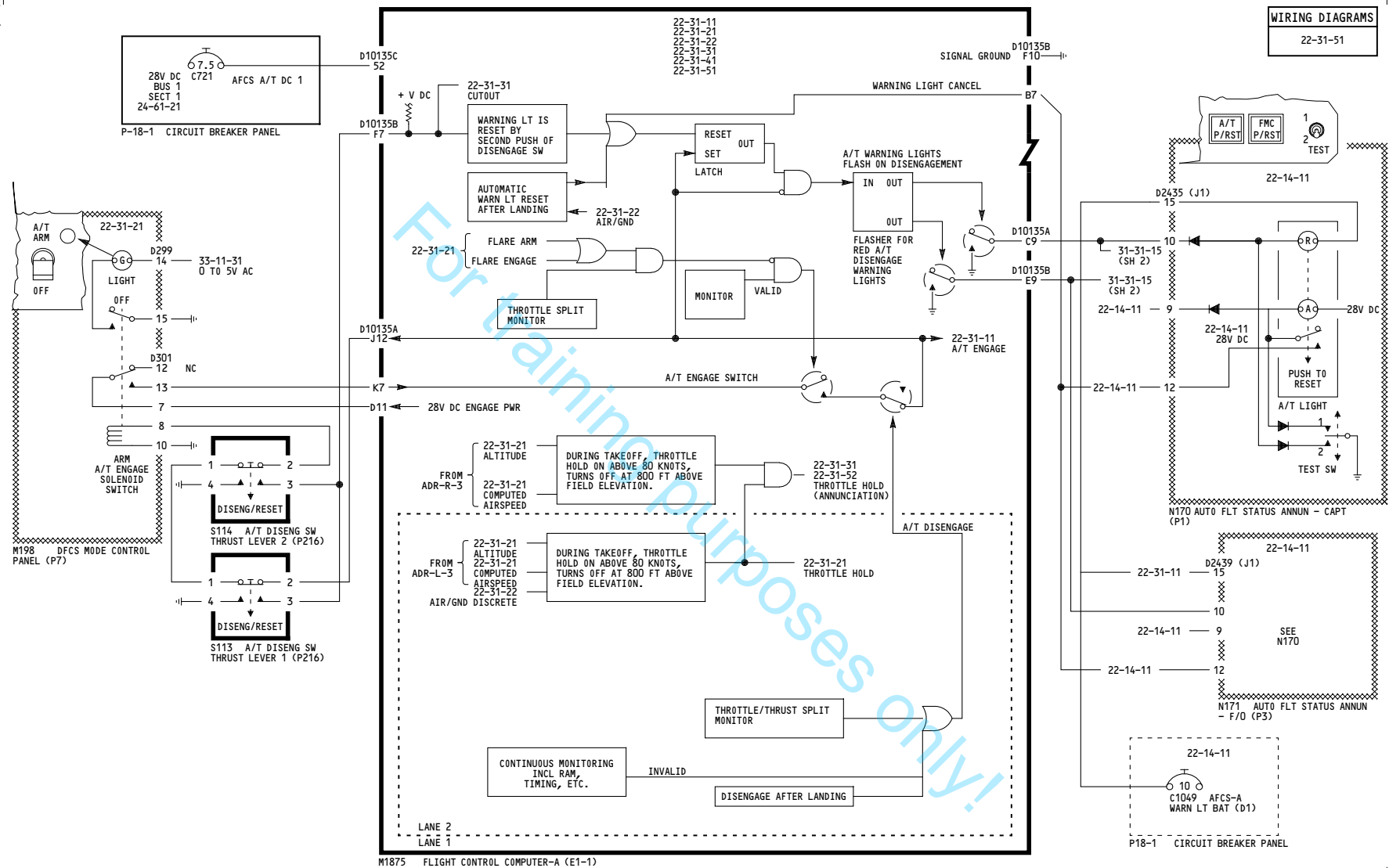




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AUTOTHROTTLE SYSTEM - ENGAGE/DISENGAGE

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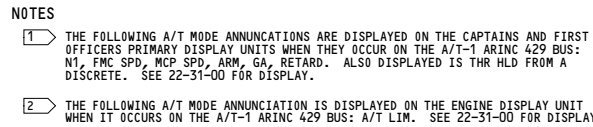
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AUTOTHROTTLE SYSTEM - ARINC OUTPUT

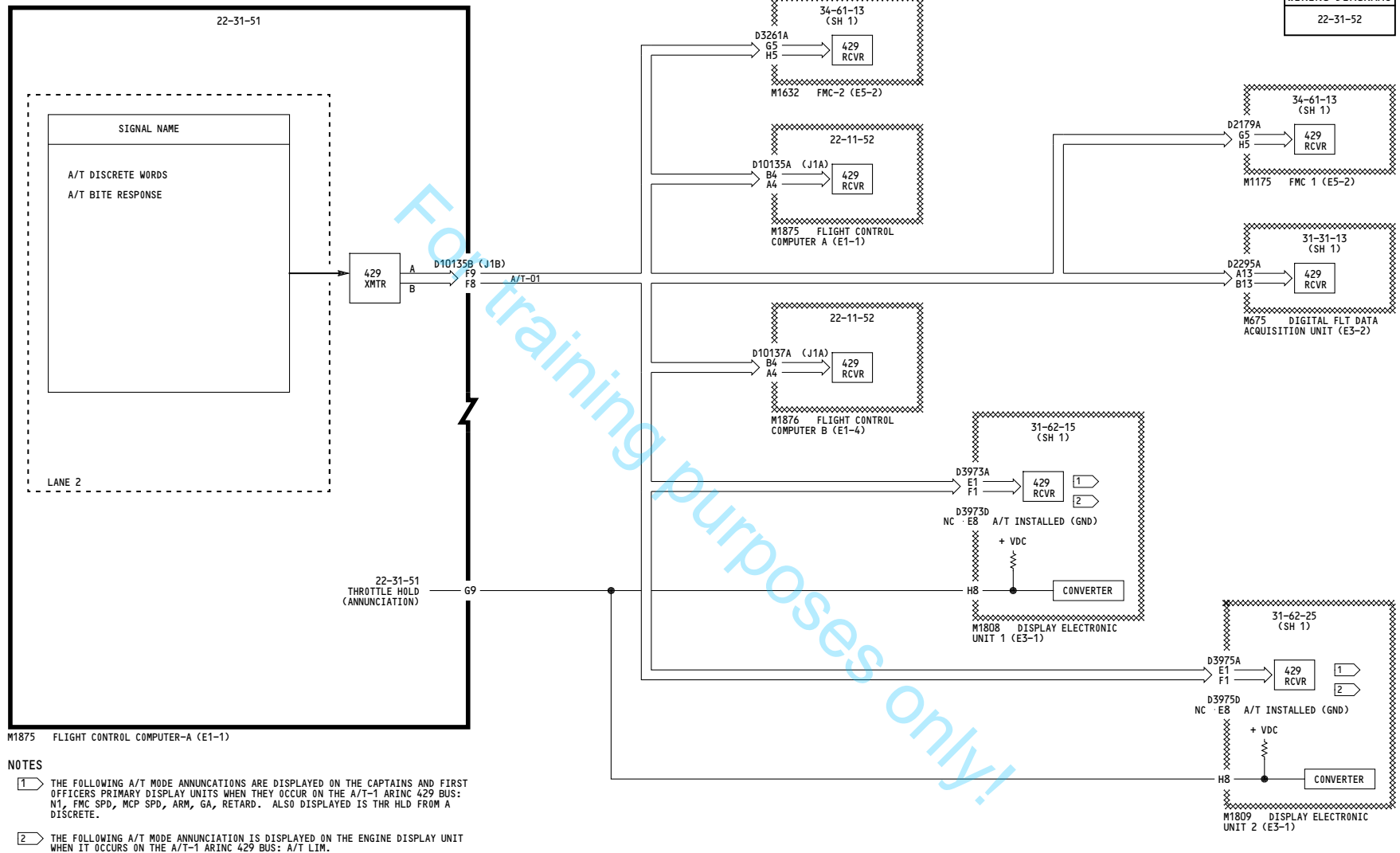
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NOTES

- 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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AUTOTHROTTLE SYSTEM - ARINC OUTPUT

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