

CHAPTER

31

INDICATING /

RECORDING SYSTEMS

CHAPTER 31
INDICATING / RECORDING SYSTEMS

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31-22-11						101.1	1	1	Jun 30/2009
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31-31-15 (cont.)		103.1			31-35-01				
			2	Oct 05/2011			101		May 02/2008
			3	Jun 30/2009	31-35-02				
31-31-16							101		May 02/2008
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31-31-17							102		Jan 11/2006
		101		Jan 11/2006	31-51-11				
		101.1		Jan 11/2006			101		May 09/2011
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31-32-15							101		Jan 11/2006
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31-32-25							101		Jan 11/2006
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		101		Jun 30/2009			101		Jan 11/2006
31-33-01					31-52-32				
		101		Jun 30/2009			101		May 02/2008
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31-52-45		101		May 02/2008	31-62-13		101		Jan 11/2006
31-52-51		101		Jan 11/2006	31-62-14	R	101	1	Mar 07/2012
31-52-52		101		Jan 11/2006				2	Jan 11/2006
31-52-55		101		May 02/2008				3	Jan 11/2006
31-52-56		101		Jan 11/2006	31-62-15		101	1	May 02/2008
31-52-61		101		May 09/2011				2	Jan 11/2006
31-52-65		101		Jan 11/2006			101.1	1	May 02/2008
31-52-71		101		Jan 11/2006				2	Jan 11/2006
31-52-75		101		Jan 11/2006			102	1	May 02/2008
31-53-11		101		Jun 30/2009				2	Jan 11/2006
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			3	Jan 11/2006					
			4	Jan 11/2006					
31-62-25		101	1	May 09/2011					
			2	Jan 11/2006					
			3	Jan 11/2006					
		101.1	1	May 09/2011					
			2	Jan 11/2006					
			3	Jan 11/2006					
		102	1	May 09/2011					
			2	Jan 11/2006					
			3	Jan 11/2006					
		103	1	May 09/2011					
			2	Jan 11/2006					
			3	Jan 11/2006					
31-62-41		101		May 02/2008					

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Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
<u>CLOCK</u>						
ELECTRONIC CLOCK	31-22-11		101		Jan 11/2006	YD001-YD007
<u>FLIGHT DATA RECORDER SYSTEM</u>						
DIGITAL FLIGHT DATA RECORDER SYSTEM - (OVER ALL SYSTEM)	31-31-00		101		Jan 11/2006	ALL
DIGITAL FLIGHT DATA RECORDER SYSTEM - INTERFACE	31-31-11		101		May 09/2011	ALL
DIGITAL FLIGHT DATA RECORDER SYSTEM - DIGITAL INTERFACE	31-31-13		101	1	Jan 11/2006	YD001-YD006
				2	Jan 11/2006	YD001-YD006
			102	1	Jan 11/2006	YD007-YD020
				2	Jan 11/2006	YD007-YD020
DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE	31-31-14		101	1	Oct 05/2011	YD001-YD006
				2	Jan 11/2006	YD001-YD006
				3	Oct 05/2011	YD001-YD006
			102	1	Oct 05/2011	YD007-YD020
				2	Oct 05/2011	YD007-YD020
				3	Oct 05/2011	YD007-YD020
DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE	31-31-15		101	1	Jan 11/2006	YD001-YD005
				2	Jan 11/2006	YD001-YD005
				3	Jun 30/2009	YD001-YD005
			101.1	1	Jun 30/2009	YD001-YD005
				2	Jun 30/2009	YD001-YD005

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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE (cont.)	31-31-15			3	Jun 30/2009	YD001-YD005
			102	1	Jan 11/2006	YD006
				2	Jan 11/2006	YD006
				3	Jun 30/2009	YD006
			102.1	1	Oct 05/2011	YD006
				2	Jun 30/2009	YD006
				3	Jun 30/2009	YD006
			103	1	Jan 11/2006	YD007-YD020
				2	Oct 05/2011	YD007-YD020
				3	Jun 30/2009	YD007-YD020
			103.1	1	Oct 05/2011	YD007
				2	Oct 05/2011	YD007
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DIGITAL FLIGHT DATA RECORDER SYSTEM AIRPLANE CODING	31-31-16		101		Jan 11/2006	ALL
DIGITAL FLIGHT DATA RECORDER SYSTEM MANDATORY OPTIONS	31-31-17		101		Jan 11/2006	YD001-YD005
			101.1		Jan 11/2006	YD001-YD005
			102		Jan 11/2006	YD006-YD020
<u>DATA LOADING AND RECORDING SYSTEM</u>						
DATA LOADER INTERFACE (LEFT)	31-32-15		101		Jun 30/2009	ALL
OPTIONAL DATA LOADER INTERFACE - LEFT	31-32-16		101		Jan 11/2006	YD001-YD005
			101.1		Jan 11/2006	YD001-YD005

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OPTIONAL DATA LOADER INTERFACE - LEFT (cont.)	31-32-16		102		Jan 11/2006	YD006-YD020
DATA LOADER INTERFACE (CENTER)	31-32-25		101		Jun 30/2009	ALL
DATA LOADER INTERFACE (RIGHT)	31-32-35		101		Jun 30/2009	ALL
<u>FLIGHT COMPARTMENT PRINTING</u>						
PRINTER INTERFACE	31-33-01		101		Jun 30/2009	YD001-YD005
			101.1		Jun 30/2009	YD001-YD005
			102		Jun 30/2009	YD006 YD008-YD020
			103		Jun 30/2009	YD007
<u>AIRCRAFT INTEGRATED DATA SYSTEM</u>						
DIGITAL FLIGHT DATA RECORDER SYSTEM - DATA LOADER INTERFACE	31-35-01		101		May 02/2008	ALL
DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE	31-35-02		101		May 02/2008	YD001-YD005
			101.1		Jan 11/2006	YD001-YD005
			102		Jan 11/2006	YD006-YD020
<u>AURAL WARNING SYSTEM</u>						
AURAL WARNING SYSTEMS	31-51-11		101		May 09/2011	YD001-YD007
<u>MASTER CAUTION</u>						
MASTER CAUTION SYSTEM- INDEX	31-52-00		101		Jan 11/2006	ALL
MASTER CAUTION SYSTEM- POWER & CONTROL	31-52-11		101		Jan 11/2006	YD001-YD007
MASTER CAUTION SYSTEM- HYDRAULIC CONTROL	31-52-21		101		Jan 11/2006	ALL
MASTER CAUTION SYSTEM- FLIGHT CONTROLS	31-52-25		101		Jan 11/2006	YD001-YD006
			102		Jan 11/2006	YD007-YD020

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MASTER CAUTION SYSTEM- ELECTRICAL CONTROL, POWER BUS	31-52-32		101		May 02/2008	ALL
MASTER CAUTION SYSTEM- APU CONTROL	31-52-35		101		May 02/2008	ALL
MASTER CAUTION SYSTEM- FUEL CONTROL	31-52-41		101		Jan 11/2006	YD001-YD007
MASTER CAUTION SYSTEM- OVERHEAT DETECTION	31-52-45		101		May 02/2008	ALL
MASTER CAUTION SYSTEM- AIR CONDITIONING CONTROL, PACK & TEMP	31-52-51		101		Jan 11/2006	ALL
MASTER CAUTION SYSTEM- AIR CONDITIONING CONTROL, BLEED AIR	31-52-52		101		Jan 11/2006	ALL
MASTER CAUTION SYSTEM- ANTI-ICE CONTROL, PITOT HEAT	31-52-55		101		May 02/2008	ALL
MASTER CAUTION SYSTEM- ANTI-ICE CONTROL, WINDOW/COWL HEAT	31-52-56		101		Jan 11/2006	ALL
MASTER CAUTION SYSTEM- ENGINE CONTROL	31-52-61		101		May 09/2011	ALL
MASTER CAUTION SYSTEM- DOOR WARNING	31-52-65		101		Jan 11/2006	ALL
MASTER CAUTION SYSTEM- IRS CONTROL	31-52-71		101		Jan 11/2006	YD001-YD007
MASTER CAUTION SYSTEM- OVERHEAD CONTROL	31-52-75		101		Jan 11/2006	ALL
<u>AURAL WARNING - TAKEOFF WARNING</u>						
AURAL WARNING - TAKEOFF WARNING	31-53-11		101		Jun 30/2009	YD001-YD007
<u>COMMON DISPLAY SYSTEM</u>						
CDS - POWER DISTRIBUTION AND INSTRUMENT LIGHTING CAPTAINS	31-62-11		101		Jan 11/2006	ALL
CDS - VIDEO COAX SPLITTERS 1 AND 3 DU STATUS	31-62-12		101		May 09/2011	ALL

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CDS - CONTROL PANEL INTERFACES - CAPTAINS	31-62-13		101		Jan 11/2006	ALL
CDS - DEU 1 ENGINE HYDRAULIC, APU AND FUEL INTERFACES	31-62-14		101	1	Mar 07/2012	YD001-YD007
				2	Jan 11/2006	YD001-YD007
				3	Jan 11/2006	YD001-YD007
				4	Jan 11/2006	YD001-YD007
CDS - DEU 1 AVIONICS INTERFACES	31-62-15		101	1	May 02/2008	YD001-YD005
				2	Jan 11/2006	YD001-YD005
				3	Jan 11/2006	YD001-YD005
			101.1	1	May 02/2008	YD001-YD005
				2	Jan 11/2006	YD001-YD005
				3	Jan 11/2006	YD001-YD005
			102	1	May 02/2008	YD006
				2	Jan 11/2006	YD006
				3	Jan 11/2006	YD006
			103	1	May 02/2008	YD007
				2	Jan 11/2006	YD007
				3	Jan 11/2006	YD007
CDS - POWER DISTRIBUTION AND INSTRUMENT LIGHTING FIRST OFFICER	31-62-21		101		Jan 11/2006	ALL
CDS - VIDEO COAX SPLITTERS 2 AND 4 DU STATUS	31-62-22		101		May 09/2011	ALL
CDS - CONTROL PANEL INTERFACES F/O	31-62-23		101		Jan 11/2006	ALL
CDS - DEU 2 ENGINE HYDRAULIC, APU AND FUEL INTERFACES	31-62-24		101	1	Mar 07/2012	YD001-YD007

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				4	Jan 11/2006	YD001-YD007
CDS - DEU 2 AVIONICS INTERFACES	31-62-25		101	1	May 09/2011	YD001-YD005
				2	Jan 11/2006	YD001-YD005
				3	Jan 11/2006	YD001-YD005
			101.1	1	May 09/2011	YD001-YD005
				2	Jan 11/2006	YD001-YD005
				3	Jan 11/2006	YD001-YD005
			102	1	May 09/2011	YD006
				2	Jan 11/2006	YD006
				3	Jan 11/2006	YD006
			103	1	May 09/2011	YD007
				2	Jan 11/2006	YD007
				3	Jan 11/2006	YD007
CDS - LRU SELECT AND PROGRAM PINS	31-62-41		101		May 02/2008	YD001-YD007

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31-51-11	AURAL WARNING SYSTEMS
31-62-13	CDS - CONTROL PANEL INTERFACES - CAPTAINS
31-62-23	CDS - CONTROL PANEL INTERFACES F/O
31-62-15	CDS - DEU 1 AVIONICS INTERFACES
31-62-14	CDS - DEU 1 ENGINE HYDRAULIC, APU AND FUEL INTERFACES
31-62-25	CDS - DEU 2 AVIONICS INTERFACES
31-62-24	CDS - DEU 2 ENGINE HYDRAULIC, APU AND FUEL INTERFACES
31-62-41	CDS - LRU SELECT AND PROGRAM PINS
31-62-11	CDS - POWER DISTRIBUTION AND INSTRUMENT LIGHTING CAPTAINS
31-62-21	CDS - POWER DISTRIBUTION AND INSTRUMENT LIGHTING FIRST OFFICER
31-62-12	CDS - VIDEO COAX SPLITTERS 1 AND 3 DU STATUS
31-62-22	CDS - VIDEO COAX SPLITTERS 2 AND 4 DU STATUS
31-32-25	DATA LOADER INTERFACE (CENTER)
31-32-15	DATA LOADER INTERFACE (LEFT)
31-32-35	DATA LOADER INTERFACE (RIGHT)

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31-35-02	DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE
31-31-14	DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE
31-35-01	DIGITAL FLIGHT DATA RECORDER SYSTEM - DATA LOADER INTERFACE
31-31-13	DIGITAL FLIGHT DATA RECORDER SYSTEM - DIGITAL INTERFACE
31-31-11	DIGITAL FLIGHT DATA RECORDER SYSTEM - INTERFACE
31-31-16	DIGITAL FLIGHT DATA RECORDER SYSTEM AIRPLANE CODING
31-31-15	DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE
31-31-17	DIGITAL FLIGHT DATA RECORDER SYSTEM MANDATORY OPTIONS
31-22-11	ELECTRONIC CLOCK
31-52-52	MASTER CAUTION SYSTEM- AIR CONDITIONING CONTROL, BLEED AIR
31-52-51	MASTER CAUTION SYSTEM- AIR CONDITIONING CONTROL, PACK & TEMP
31-52-55	MASTER CAUTION SYSTEM- ANTI-ICE CONTROL, PITOT HEAT

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31-52-35	MASTER CAUTION SYSTEM- APU CONTROL		
31-52-65	MASTER CAUTION SYSTEM- DOOR WARNING		
31-52-31	MASTER CAUTION SYSTEM- ELECTRICAL CONTROL, GENERATOR		
31-52-32	MASTER CAUTION SYSTEM- ELECTRICAL CONTROL, POWER BUS		
31-52-61	MASTER CAUTION SYSTEM- ENGINE CONTROL		
31-52-25	MASTER CAUTION SYSTEM- FLIGHT CONTROLS		
31-52-41	MASTER CAUTION SYSTEM- FUEL CONTROL		
31-52-21	MASTER CAUTION SYSTEM- HYDRAULIC CONTROL		
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31-52-75	MASTER CAUTION SYSTEM- OVERHEAD CONTROL		
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31-52-11	MASTER CAUTION SYSTEM- POWER & CONTROL		
31-32-16	OPTIONAL DATA LOADER INTERFACE - LEFT		
31-33-01	PRINTER INTERFACE		

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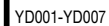
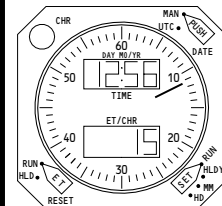
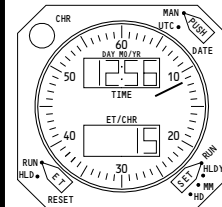
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WIRING DIAGRAMS

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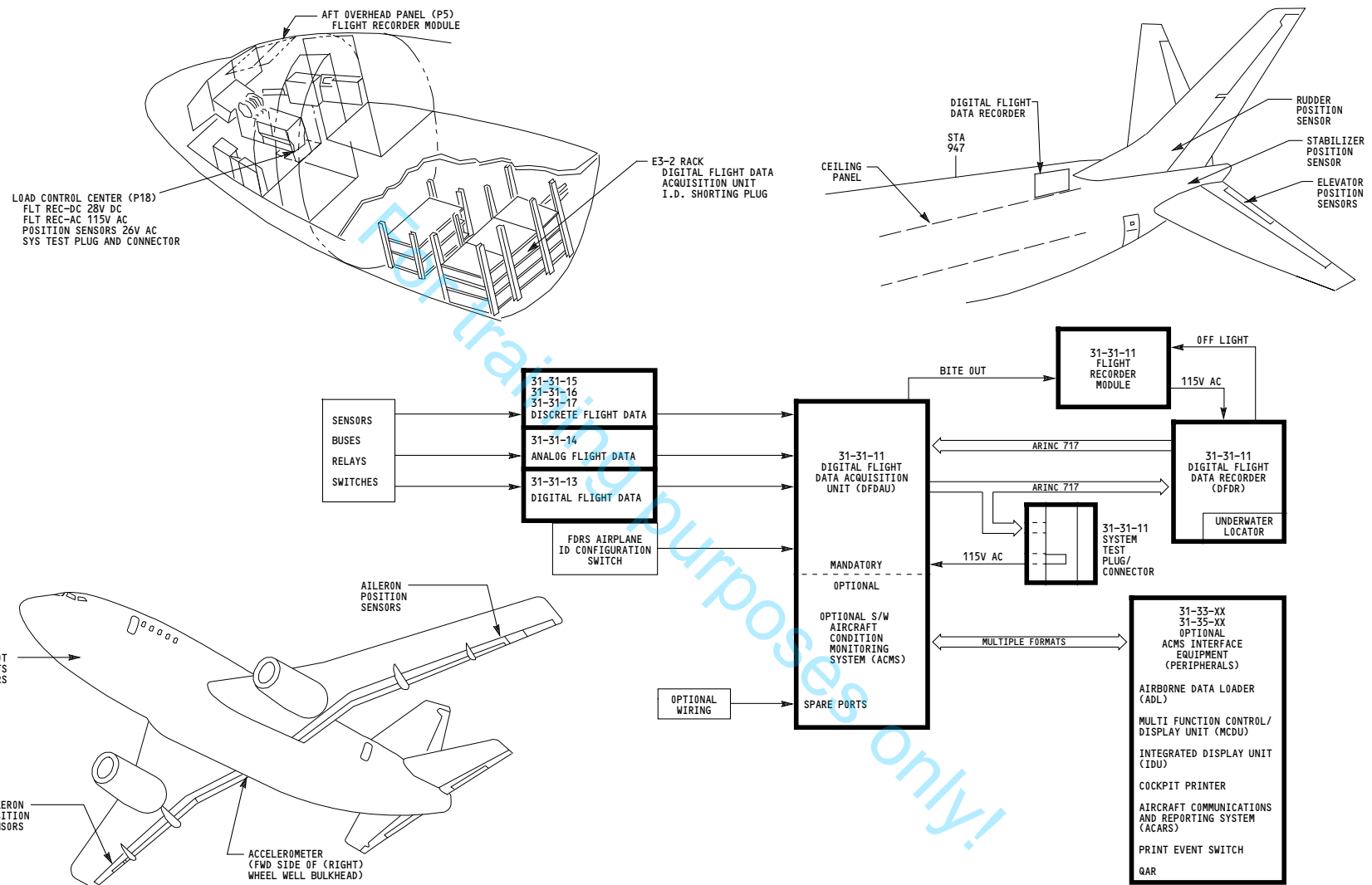
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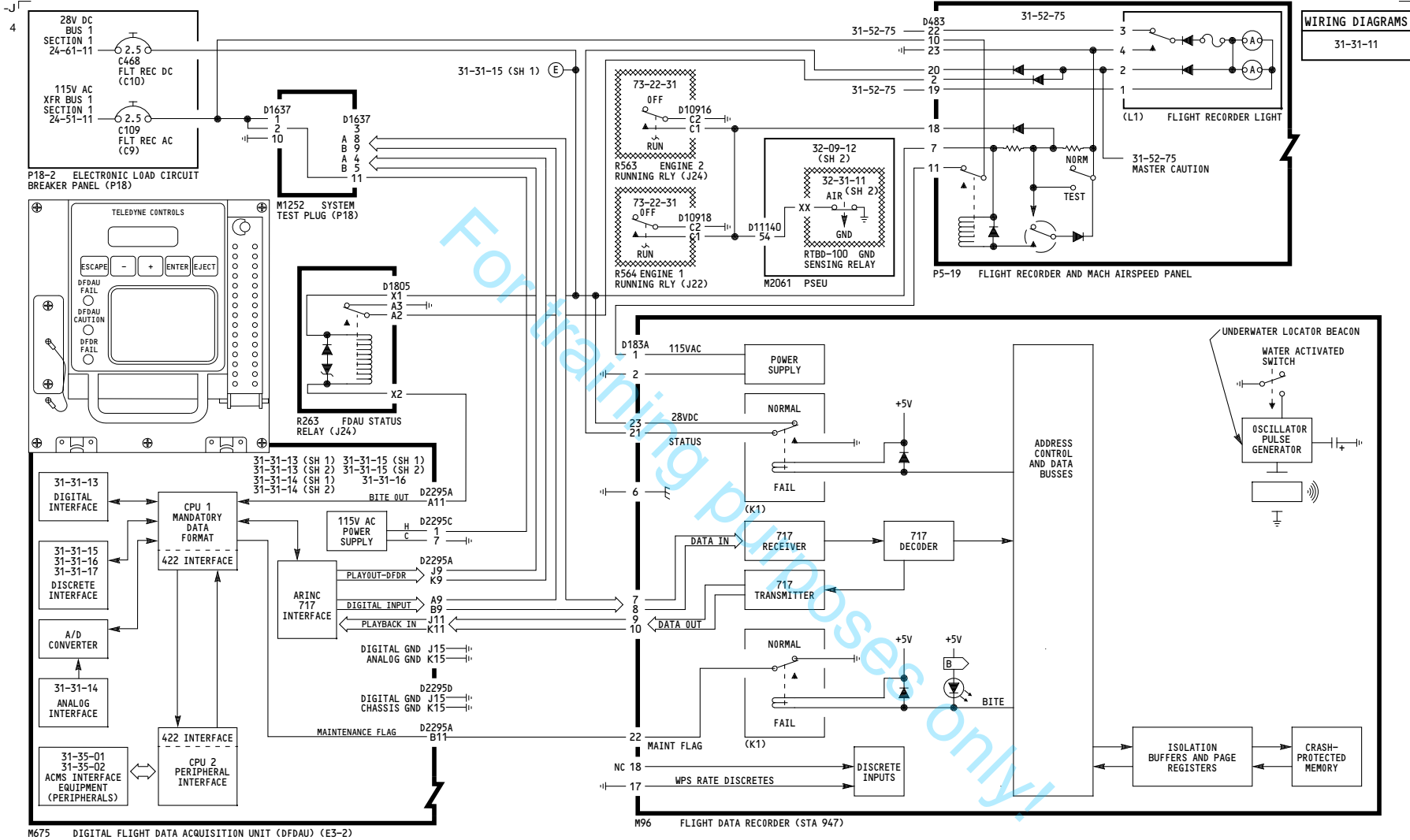


ALL	DIGITAL FLIGHT DATA RECORDER SYSTEM - (OVER ALL SYSTEM)
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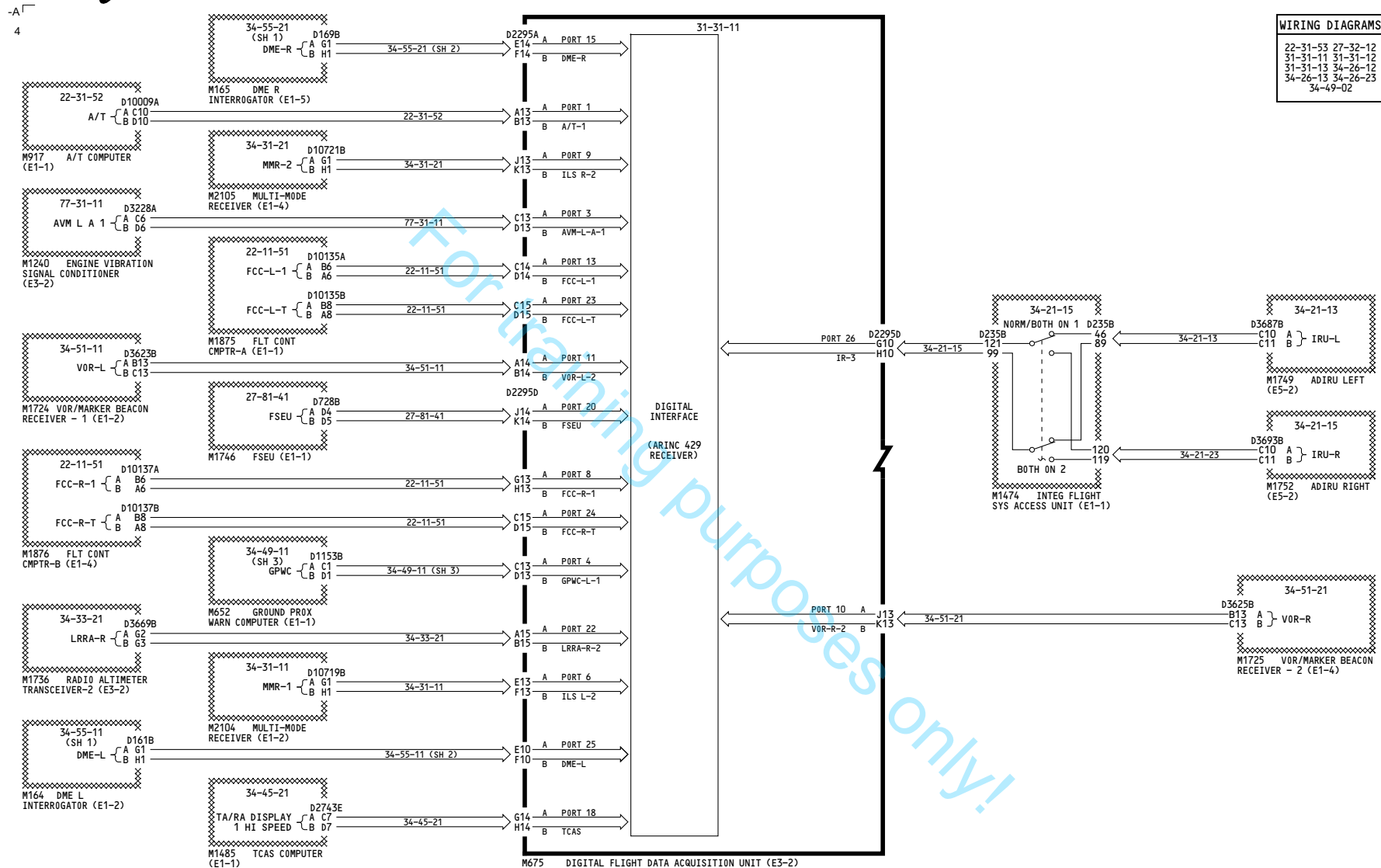
**DIGITAL FLIGHT DATA
RECORDER SYSTEM -
INTERFACE**

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DIGITAL FLIGHT DATA RECORDER SYSTEM - DIGITAL INTERFACE

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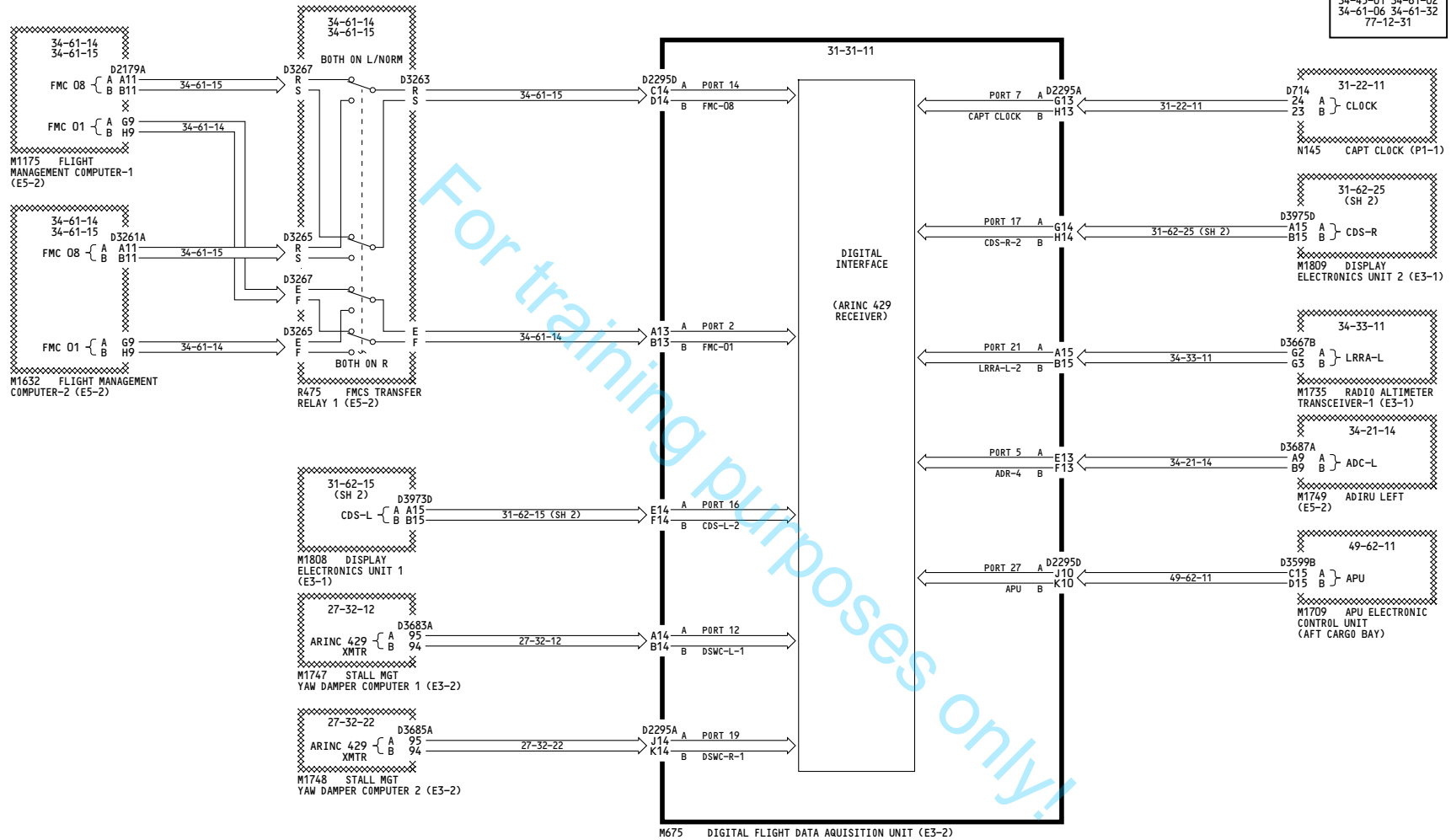
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34-45-01 34-61-02
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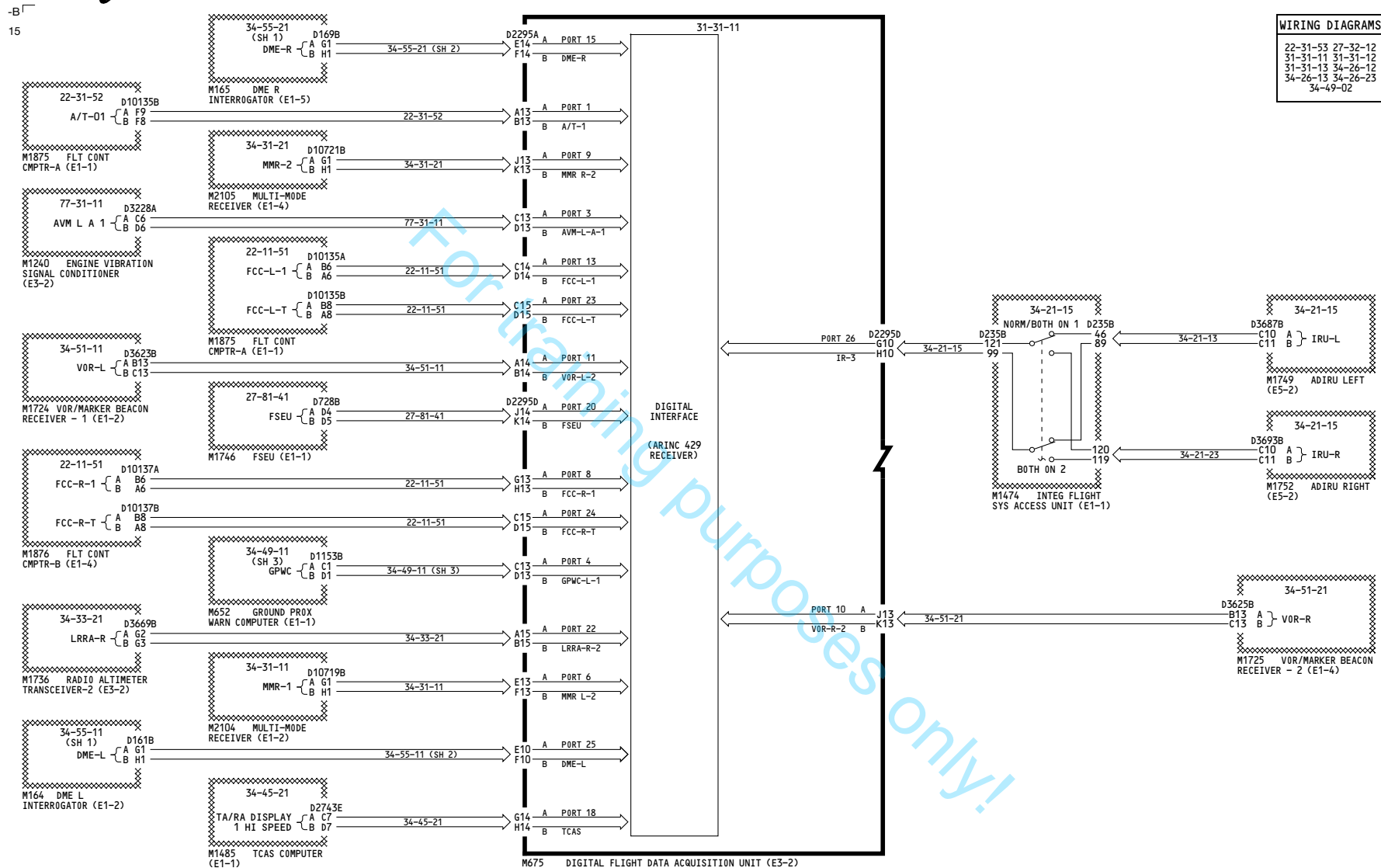
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**DIGITAL FLIGHT DATA
RECORDER SYSTEM - DIGITAL
INTERFACE**

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DIGITAL FLIGHT DATA RECORDER SYSTEM - DIGITAL INTERFACE

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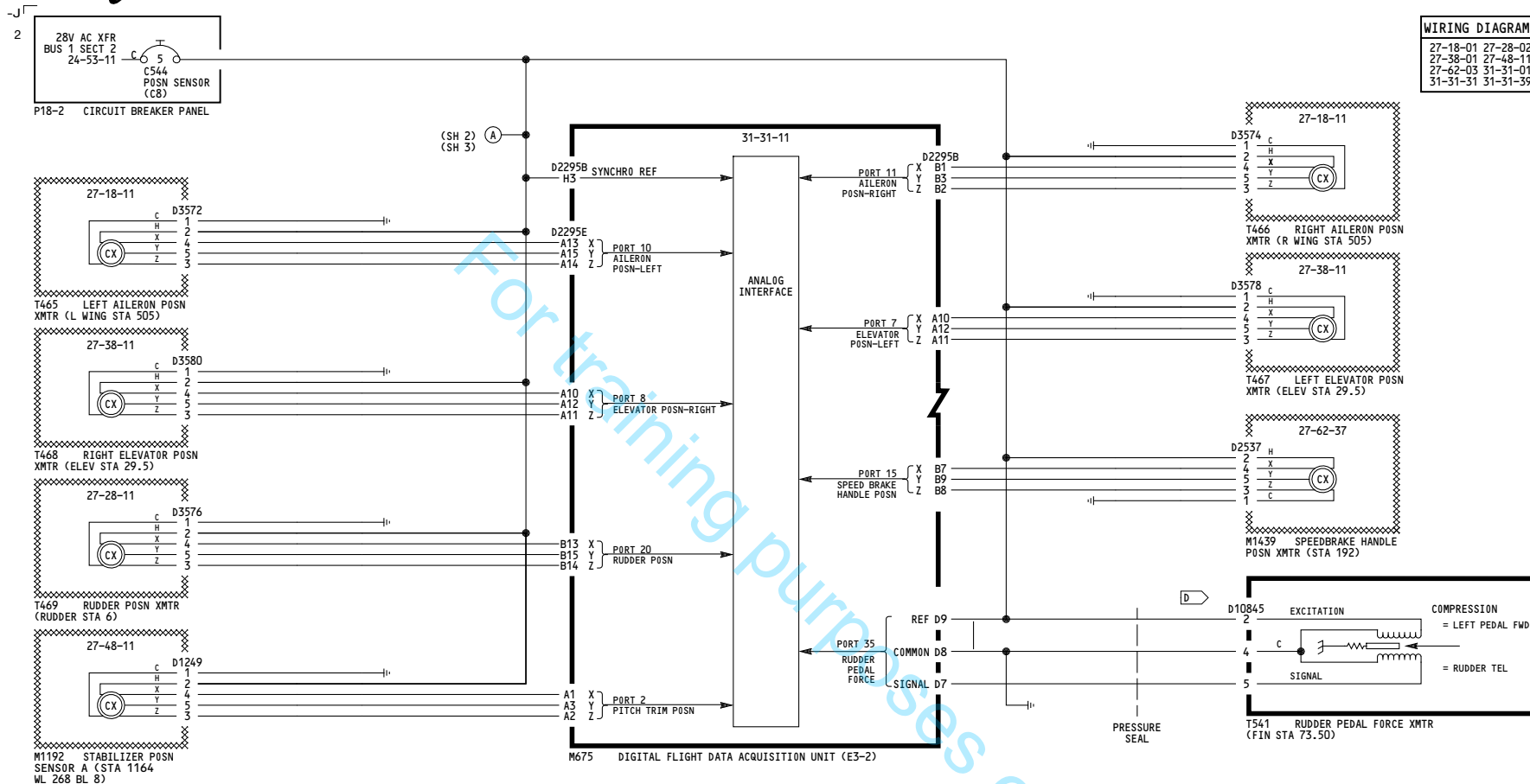
WIRING DIAGRAMS

The diagram illustrates the wiring for the Digital Flight Data Acquisition Unit (E3-2). It features a central 'DIGITAL INTERFACE (ARINC 429 RECEIVER)' with multiple ports (PORT 2, PORT 12, PORT 14, PORT 16, PORT 17, PORT 19, PORT 21, PORT 27, PORT 5, PORT 7, CAPT CLOCK). Connections are made to various external units:

- Left Side Connections:**
 - FMC 08 & FMC 01 (E5-2):** Connected via D2179A and D3267 connectors to the unit's input lines (A11, B11, G9, H9).
 - M1175 FLIGHT MANAGEMENT COMPUTER-1 (E5-2):** Connected via D3261A and D3267 connectors.
 - M1632 FLIGHT MANAGEMENT COMPUTER-2 (E5-2):** Connected via D3265 and D3267 connectors.
 - R475 FMC'S TRANSFER RELAY 1 (E5-2):** Connected to the unit's input lines.
 - 31-62-15 (SH 2) CDS-L:** Connected via D3973D to PORT 16.
 - M1808 DISPLAY ELECTRONICS UNIT 1 (E3-1):** Connected via D3683A to PORT 12.
 - M1747 STALL MGT YAW DAMPER COMPUTER 1 (E3-2):** Connected via D3685A to PORT 12.
 - M1748 STALL MGT YAW DAMPER COMPUTER 2 (E3-2):** Connected via D3685A to PORT 19.
- Right Side Connections:**
 - 31-22-11 D714:** Connected via D2295A to PORT 7.
 - 31-62-25 (SH 2) D3975D:** Connected via D2295A to PORT 17.
 - 34-33-11 D3667B:** Connected via D2295D to PORT 21.
 - 34-21-14 D3687A:** Connected via D2295D to PORT 5.
 - 49-62-11 D3599B:** Connected via D2295D to PORT 27.
 - 31-22-11 D714:** Connected via D2295A to PORT 7.
 - 31-62-25 (SH 2) D3975D:** Connected via D2295A to PORT 17.
 - 34-33-11 D3667B:** Connected via D2295D to PORT 21.
 - 34-21-14 D3687A:** Connected via D2295D to PORT 5.
 - 49-62-11 D3599B:** Connected via D2295D to PORT 27.

The diagram also shows internal wiring and connectors within the unit, including D2295D, D2295A, D2295B, D2295C, D2295E, D2295F, D2295G, D2295H, D2295I, D2295J, D2295K, D2295L, D2295M, D2295N, D2295O, D2295P, D2295Q, D2295R, D2295S, D2295T, D2295U, D2295V, D2295W, D2295X, D2295Y, D2295Z, D2295AA, D2295AB, D2295AC, D2295AD, D2295AE, D2295AF, D2295AG, D2295AH, D2295AI, D2295AJ, D2295AK, D2295AL, D2295AM, D2295AN, D2295AO, D2295AP, D2295AQ, D2295AR, D2295AS, D2295AT, D2295AU, D2295AV, D2295AW, D2295AX, D2295AY, D2295AZ, D2295BA, D2295BB, D2295BC, D2295BD, D2295BE, D2295BF, D2295BG, D2295BH, D2295BI, D2295BJ, D2295BK, D2295BL, D2295BM, D2295BN, D2295BO, D2295BP, D2295BQ, D2295BR, D2295BS, D2295BT, D2295BU, D2295BV, D2295BW, D2295BX, D2295BY, D2295BZ, D2295CA, D2295CB, D2295CC, D2295CD, D2295CE, D2295CF, D2295CG, D2295CH, D2295CI, D2295CJ, D2295CK, D2295CL, D2295CM, D2295CN, D2295CO, D2295CP, D2295CQ, D2295CR, D2295CS, D2295CT, D2295CU, D2295CV, D2295CW, D2295CX, D2295CY, D2295CZ, D2295DA, D2295DB, D2295DC, D2295DD, D2295DE, D2295DF, D2295DG, D2295DH, D2295DI, D2295DJ, D2295DK, D2295DL, D2295DM, D2295DN, D2295DO, D2295DP, D2295DQ, D2295DR, D2295DS, D2295DT, D2295DU, D2295DV, D2295DW, D2295DX, D2295DY, D2295DZ, D2295EA, D2295EB, D2295EC, D2295ED, D2295EE, D2295EF, D2295EG, D2295EH, D2295EI, D2295EJ, D2295EK, D2295EL, D2295EM, D2295EN, D2295EO, D2295EP, D2295EQ, D2295ER, D2295ES, D2295ET, D2295EU, D2295EV, D2295EW, D2295EX, D2295EY, D2295EZ, D2295FA, D2295FB, D2295FC, D2295FD, D2295FE, D2295FF, D2295FG, D2295FH, D2295FI, D2295FJ, D2295FK, D2295FL, D2295FM, D2295FN, D2295FO, D2295FP, D2295FQ, D2295FR, D2295FS, D2295FT, D2295FU, D2295FV, D2295FW, D2295FX, D2295FY, D2295FZ, D2295GA, D2295GB, D2295GC, D2295GD, D2295GE, D2295GF, D2295GG, D2295GH, D2295GI, D2295GJ, D2295GK, D2295GL, D2295GM, D2295GN, D2295GO, D2295GP, D2295GQ, D2295GR, D2295GS, D2295GT, D2295GU, D2295GV, D2295GW, D2295GX, D2295GY, D2295GZ, D2295HA, D2295HB, D2295HC, D2295HD, D2295HE, D2295HF, D2295HG, D2295HH, D2295HI, D2295HJ, D2295HK, D2295HL, D2295HM, D2295HN, D2295HO, D2295HP, D2295HQ, D2295HR, D2295HS, D2295HT, D2295HU, D2295HV, D2295HW, D2295HX, D2295HY, D2295HZ, D2295IA, D2295IB, D2295IC, D2295ID, D2295IE, D2295IF, D2295IG, D2295IH, D2295II, D2295IJ, D2295IK, D2295IL, D2295IM, D2295IN, D2295IO, D2295IP, D2295IQ, D2295IR, D2295IS, D2295IT, D2295IU, D2295IV, D2295IW, D2295IX, D2295IY, D2295IZ, D2295JA, D2295JB, D2295JC, D2295JD, D2295JE, D2295JF, D2295JG, D2295JH, D2295JI, D2295JJ, D2295JK, D2295JL, D2295JM, D2295JN, D2295JO, D2295JP, D2295JQ, D2295JR, D2295JS, D2295JT, D2295JU, D2295JV, D2295JW, D2295JX, D2295JY, D2295JZ, D2295KA, D2295KB, D2295KC, D2295KD, D2295KE, D2295KF, D2295KG, D2295KH, D2295KI, D2295KJ, D2295KK, D2295KL, D2295KM, D2295KN, D2295KO, D2295KP, D2295KQ, D2295KR, D2295KS, D2295KT, D2295KU, D2295KV, D2295KW, D2295KX, D2295KY, D2295KZ, D2295LA, D2295LB, D2295LC, D2295LD, D2295LE, D2295LF, D2295LG, D2295LH, D2295LI, D2295LJ, D2295LK, D2295LL, D2295LM, D2295LN, D2295LO, D2295LP, D2295LQ, D2295LR, D2295LS, D2295LT, D2295LU, D2295LV, D2295LW, D2295LX, D2295LY, D2295LZ, D2295MA, D2295MB, D2295MC, D2295MD, D2295ME, D2295MF, D2295MG, D2295MH, D2295MI, D2295MJ, D2295MK, D2295ML, D2295MM, D2295MN, D2295MO, D2295MP, D2295MQ, D2295MR, D2295MS, D2295MT, D2295MU, D2295MV, D2295MW, D2295MX, D2295MY, D2295MZ, D2295NA, D2295NB, D2295NC, D2295ND, D2295NE, D2295NF, D2295NG, D2295NH, D2295NI, D2295NJ, D2295NK, D2295NL, D2295NM, D2295NN, D2295NO, D2295NP, D2295NQ, D2295NR, D2295NS, D2295NT, D2295NU, D2295NV, D2295NW, D2295NX, D2295NY, D2295NZ, D2295OA, D2295OB, D2295OC, D2295OD, D2295OE, D2295OF, D2295OG, D2295OH, D2295OI, D2295OJ, D2295OK, D2295OL, D2295OM, D2295ON, D2295OO, D2295OP, D2295OQ, D2295OR, D2295OS, D2295OT, D2295OU, D2295OV, D2295OW, D2295OX, D2295OY, D2295OZ, D2295PA, D2295PB, D2295PC, D2295PD, D2295PE, D2295PF, D2295PG, D2295PH, D2295PI, D2295PJ, D2295PK, D2295PL, D2295PM, D229

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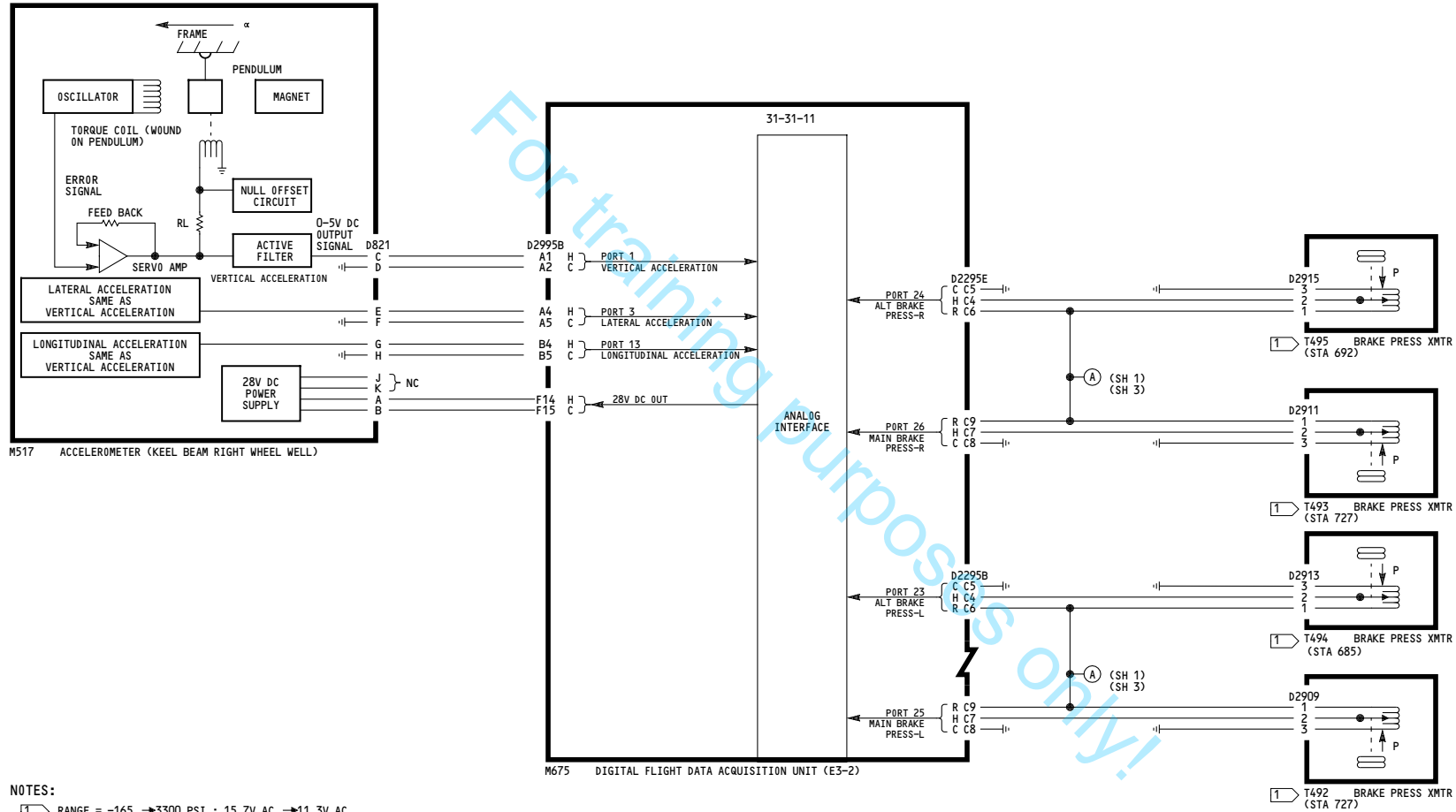
YD001-YD006

DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE

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NOTES:

1 RANGE = -165 → 3300 PSI ; 15.7V AC → 11.3V AC ON PIN 2 OF TRANSMITTER REFERENCED TO 28V AC

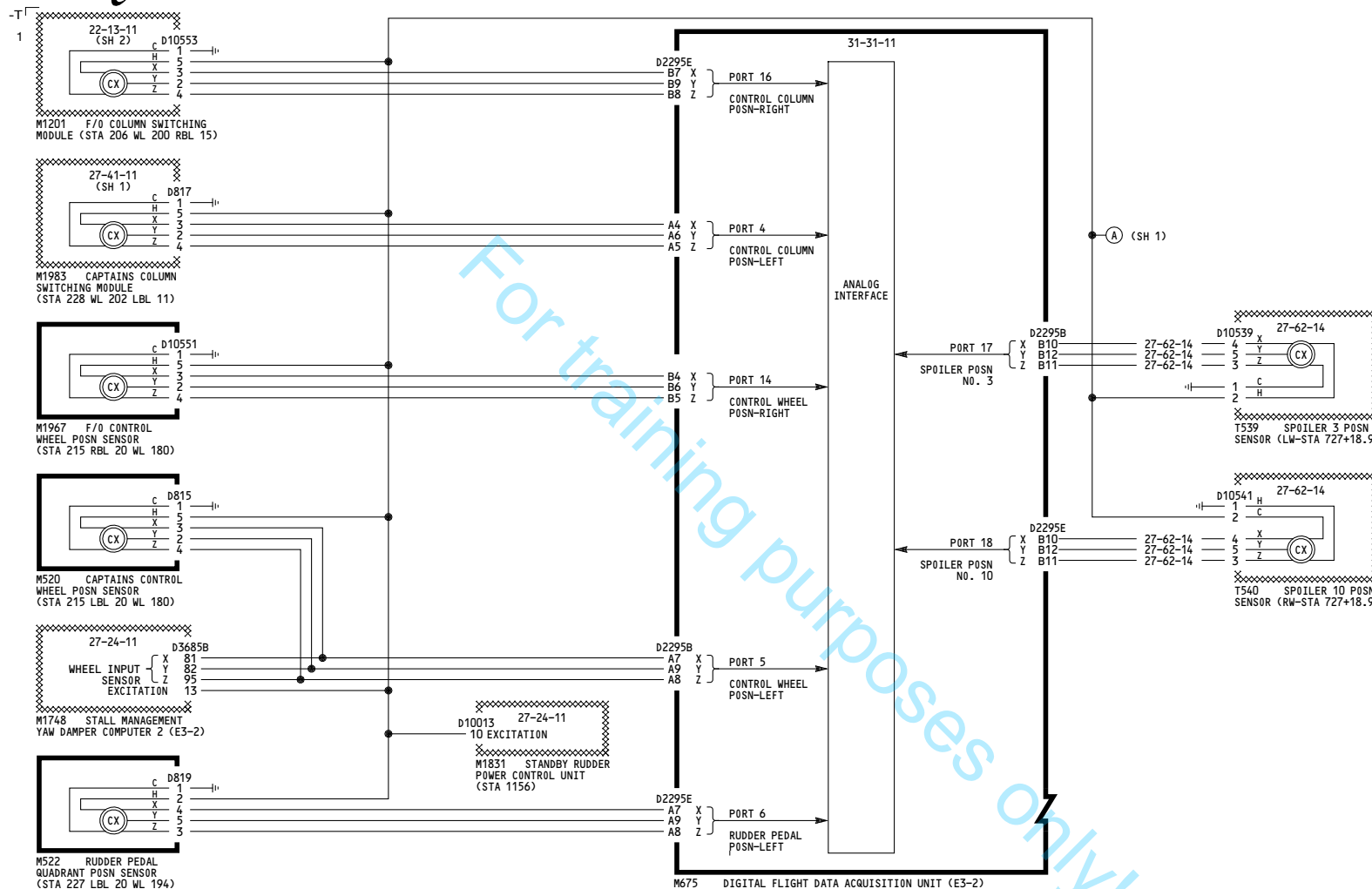
YD001-YD006

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WIRING DIAGRAMS
27-24-11
27-62-14
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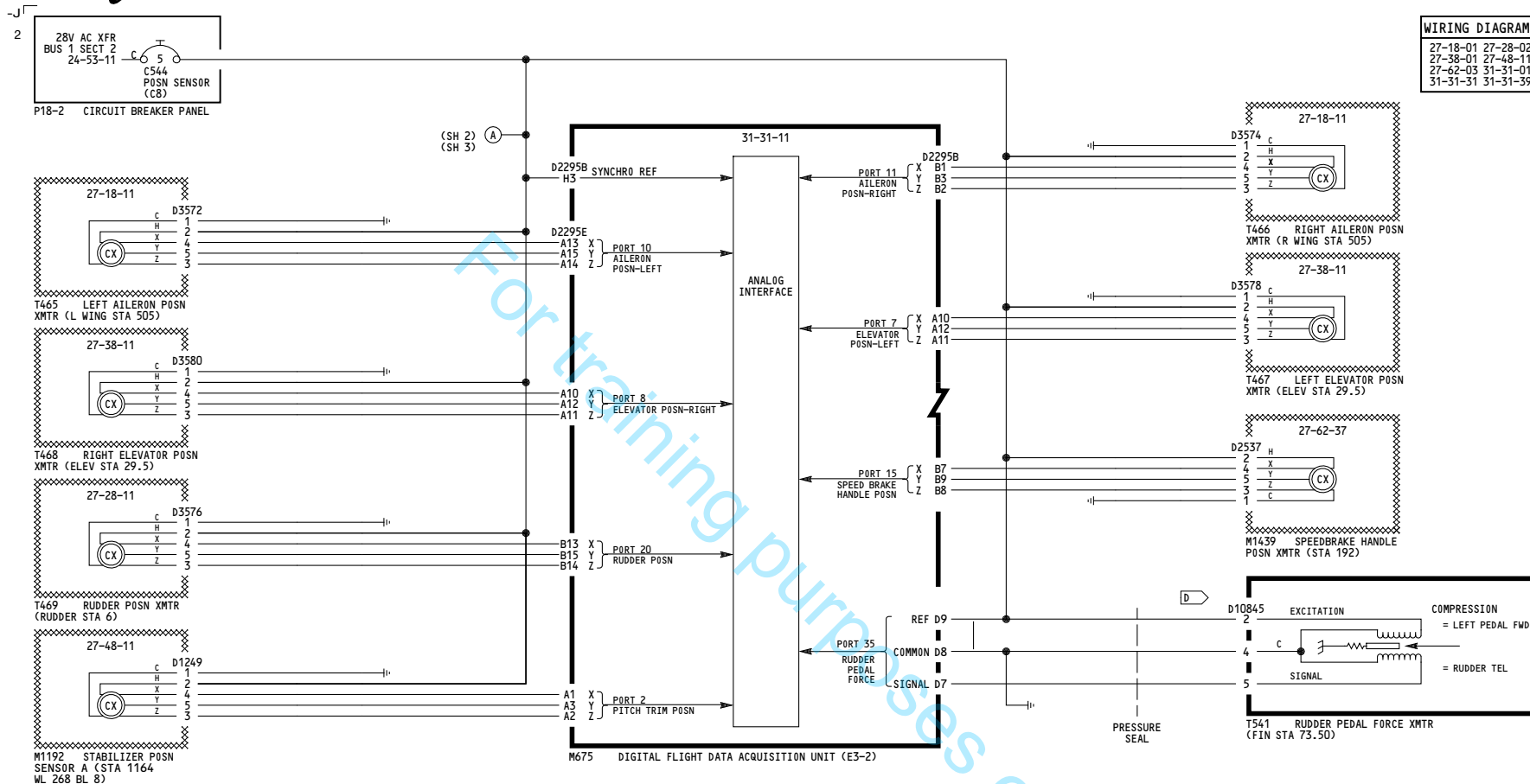
DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE

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YD007-YD020

DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE

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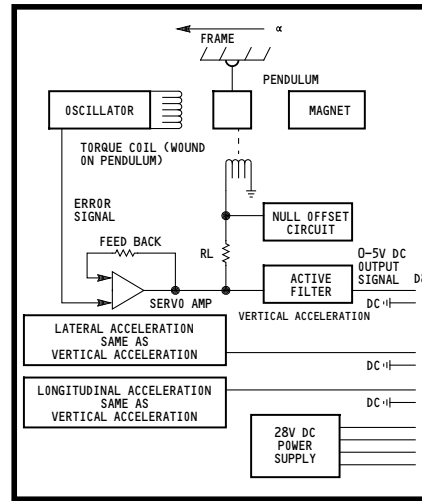
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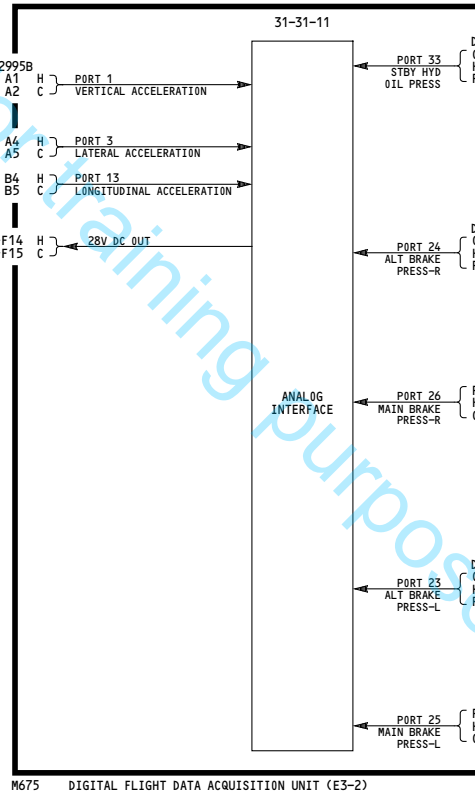
WIRING DIAGRAMS

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-B
3



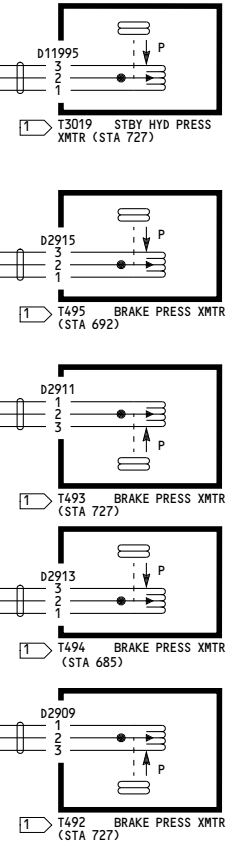
M517 ACCELEROMETER (KEEL BEAM RIGHT WHEEL WELL)



M675 DIGITAL FLIGHT DATA ACQUISITION UNIT (E3-2)

NOTES:

- 1 RANGE = -165 → 3300 PSI ; 15.7V AC → 11.3V AC
ON PIN 2 OF TRANSMITTER REFERENCED TO 28V AC



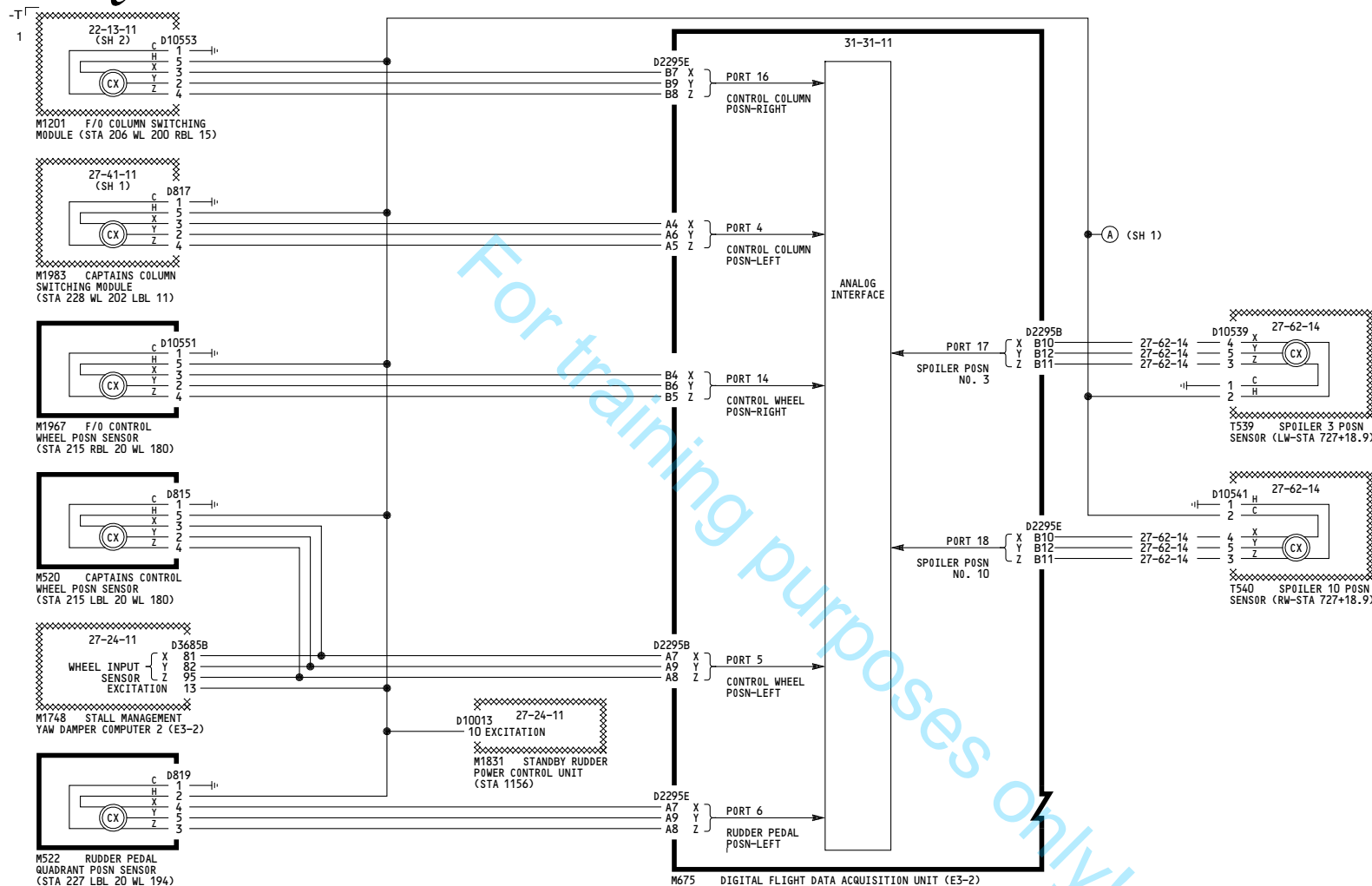
YD007-YD020

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - ANALOG
INTERFACE**

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YD007-YD020

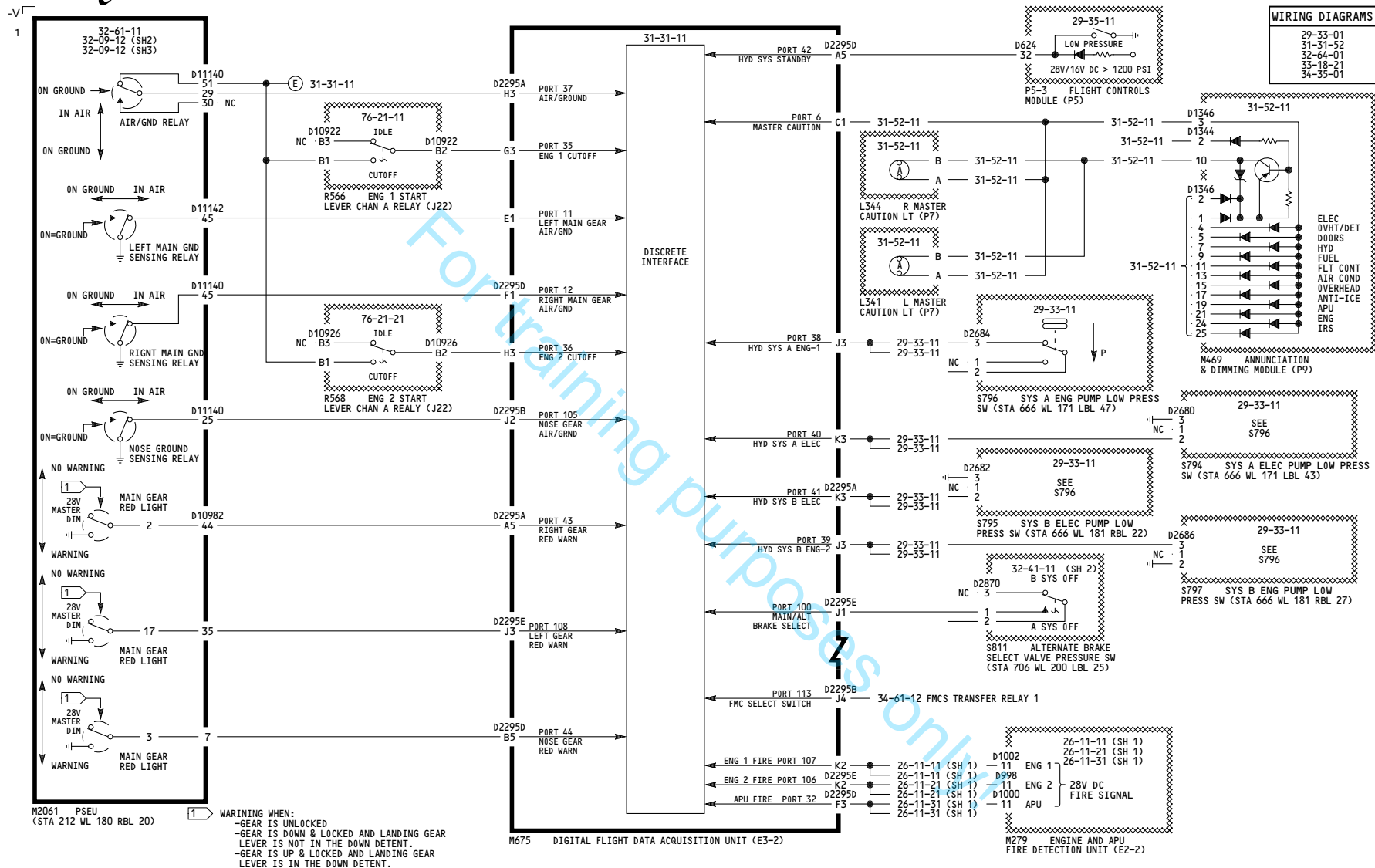
DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE

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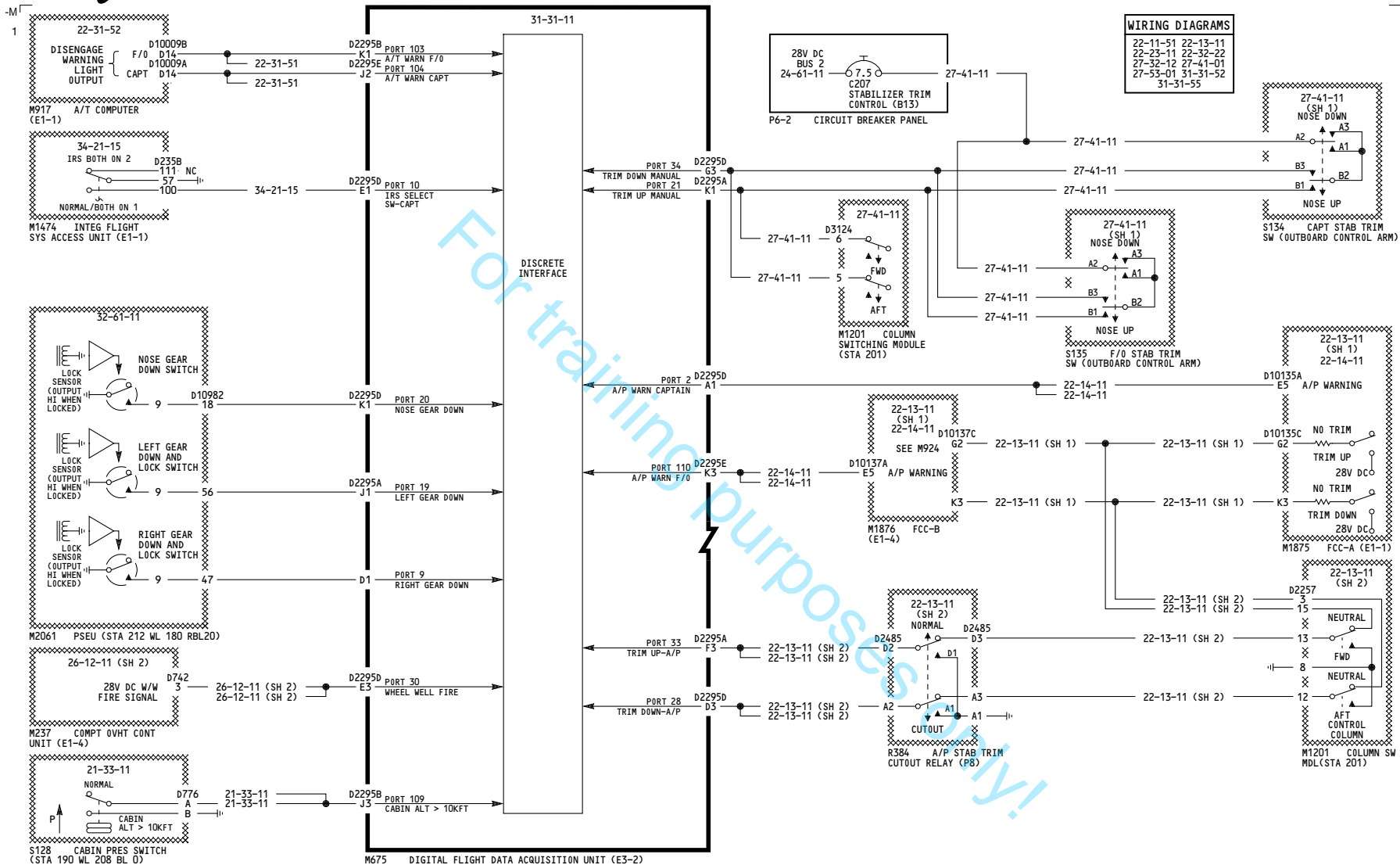
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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

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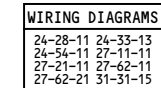
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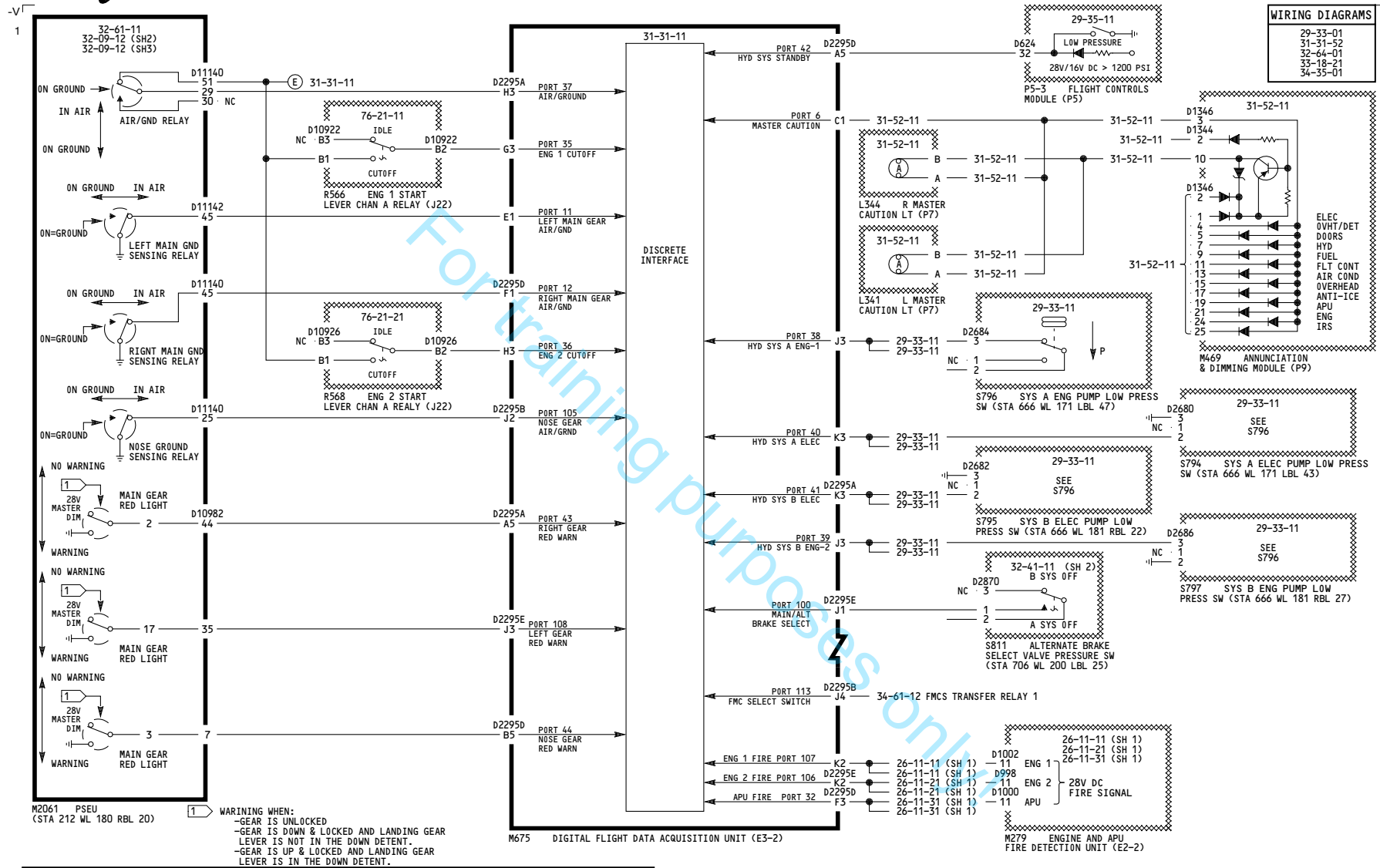
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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

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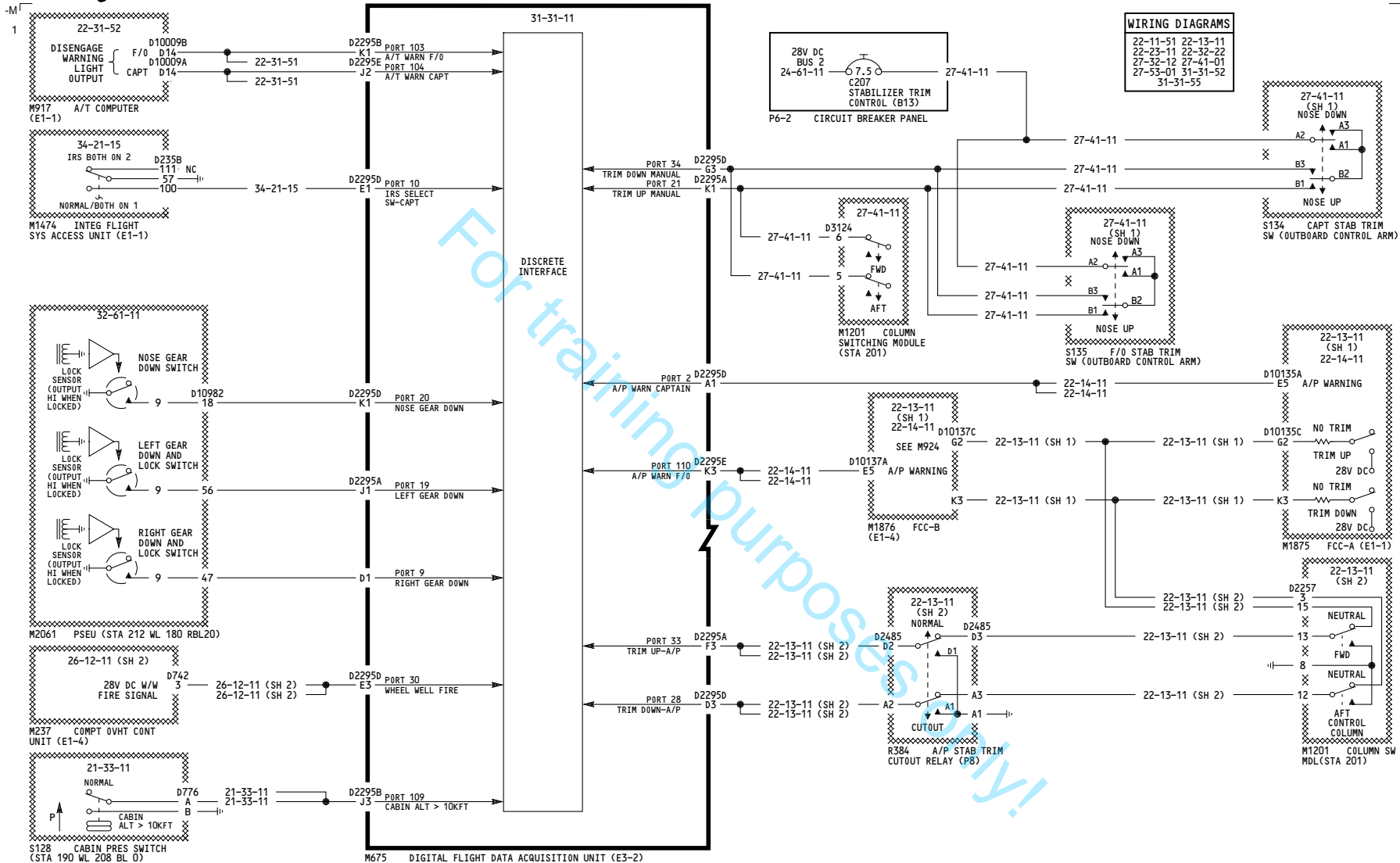
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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

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YD001-YD005

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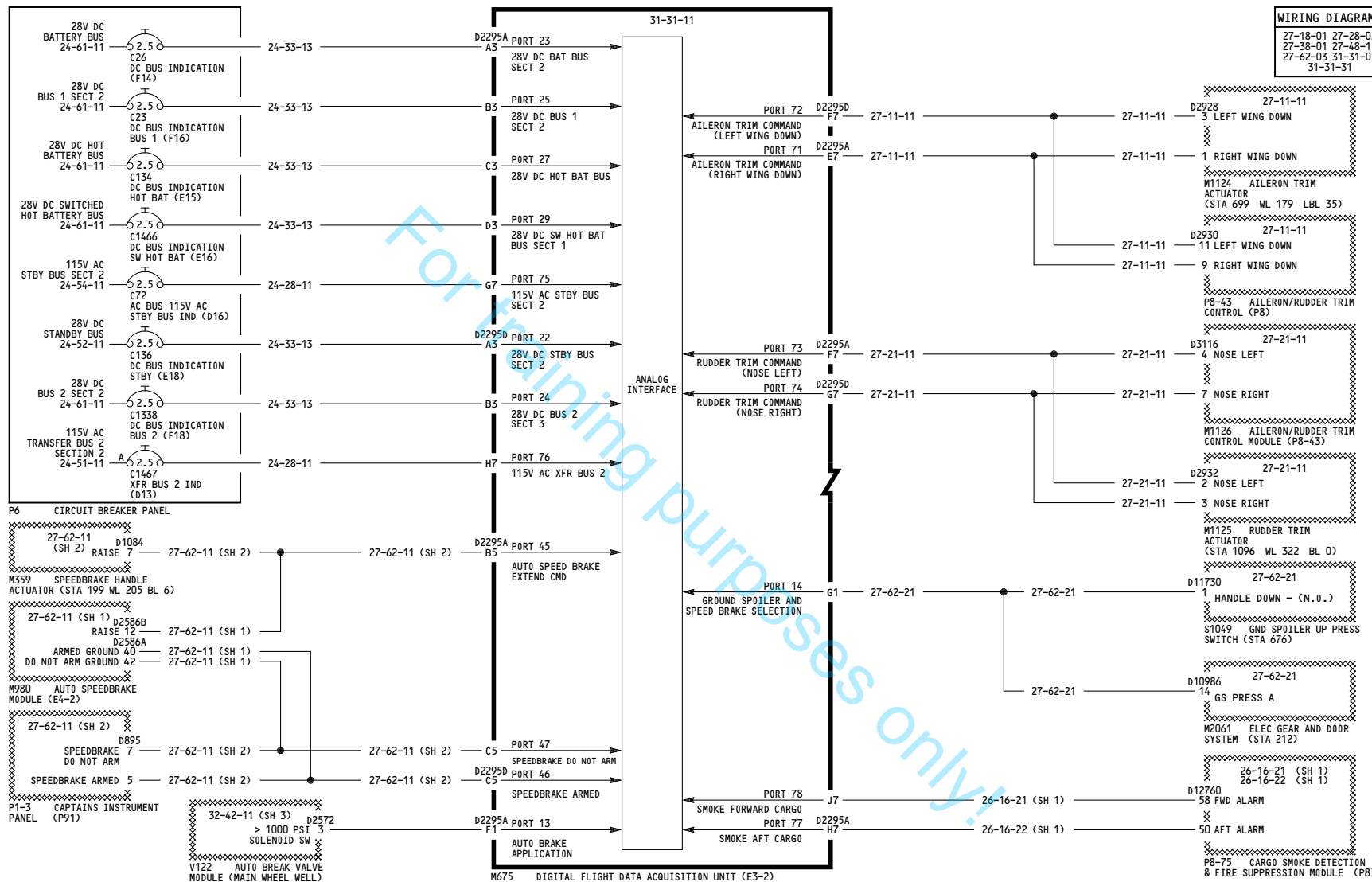
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WIRING DIAGRAMS
27-18-01 27-28-02
27-30-01 27-48-11
27-62-03 31-31-01
31-31-31



YD001-YD005

DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

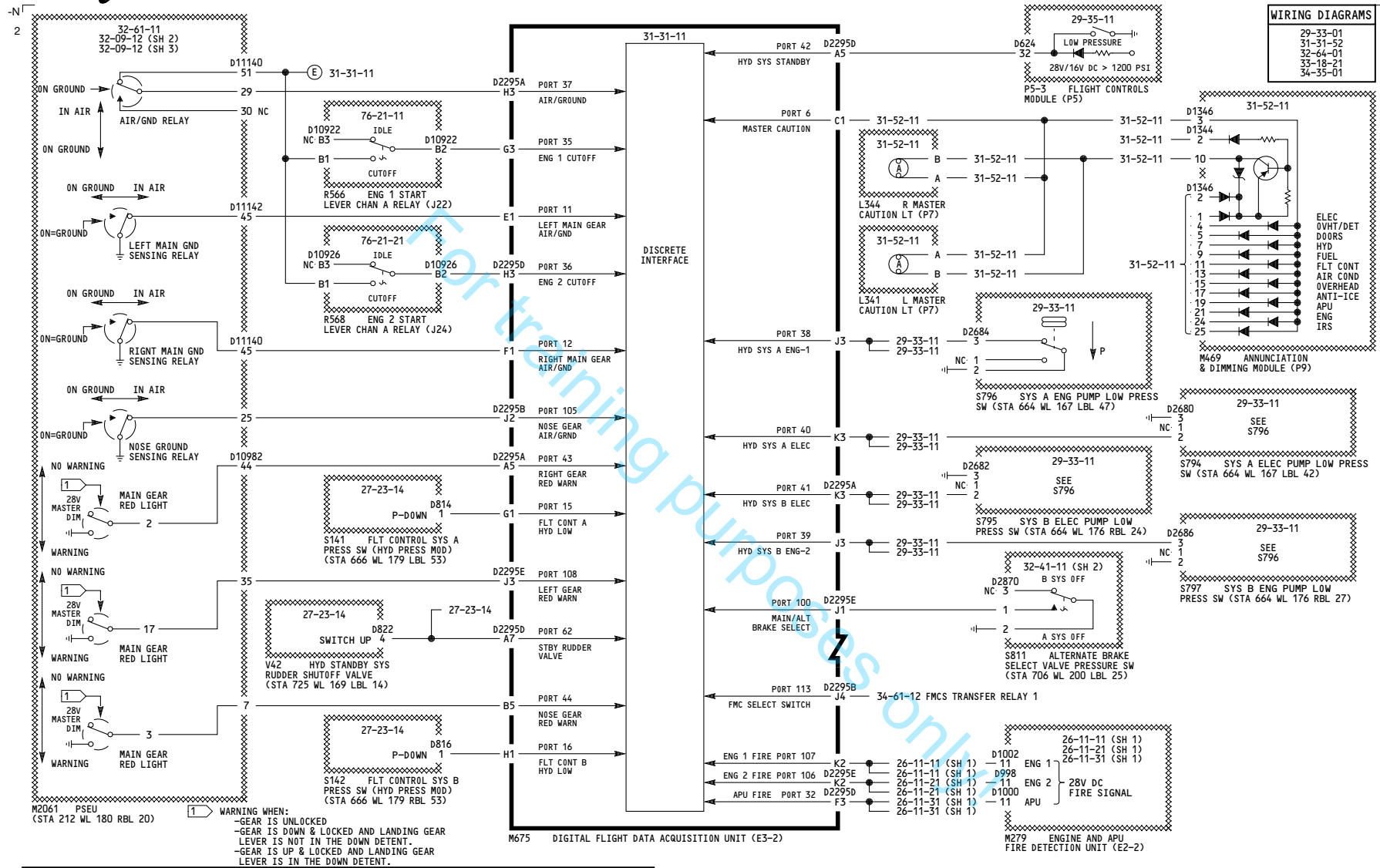
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Incorporates
26-1122

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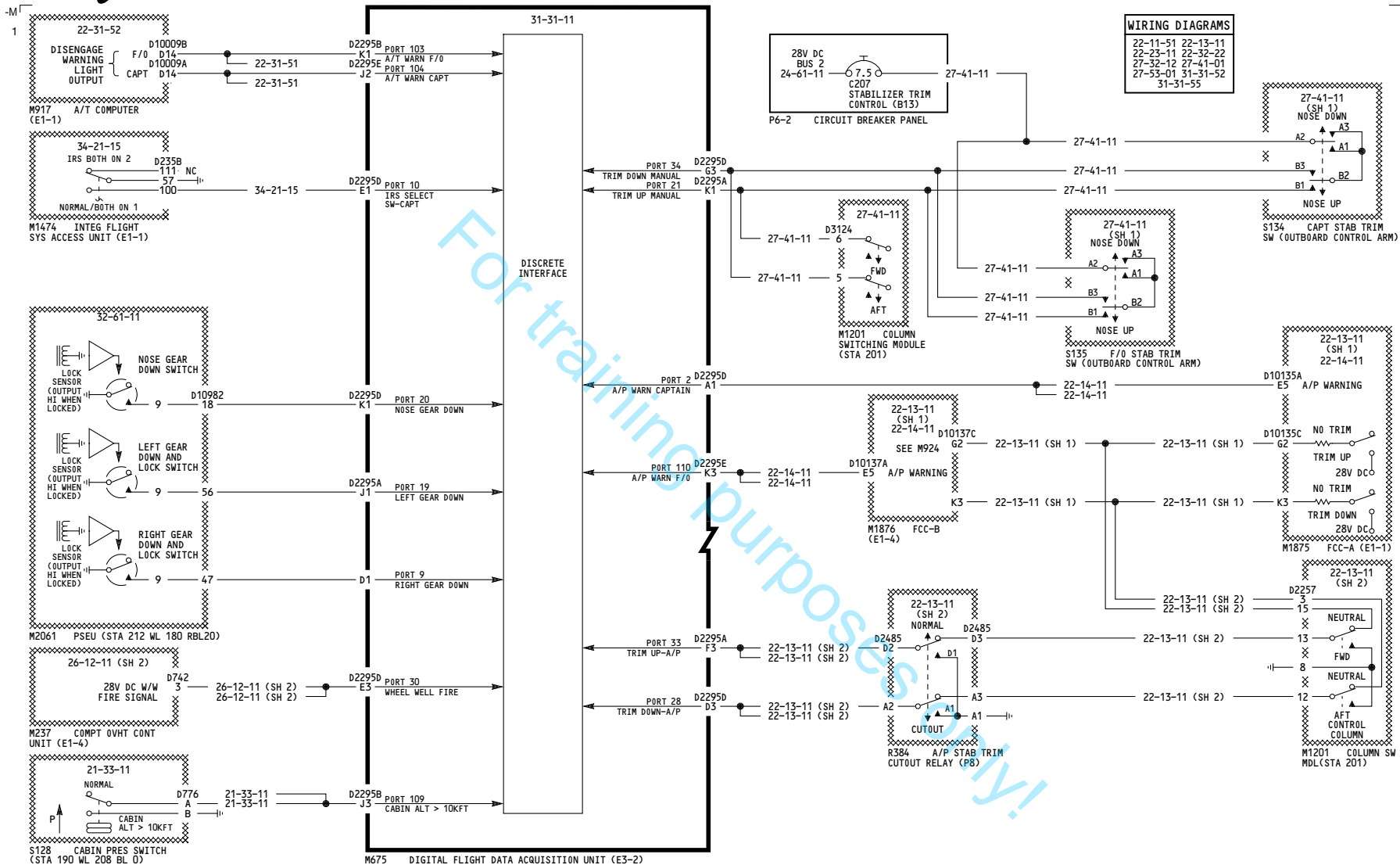
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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

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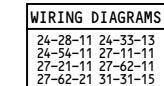
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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

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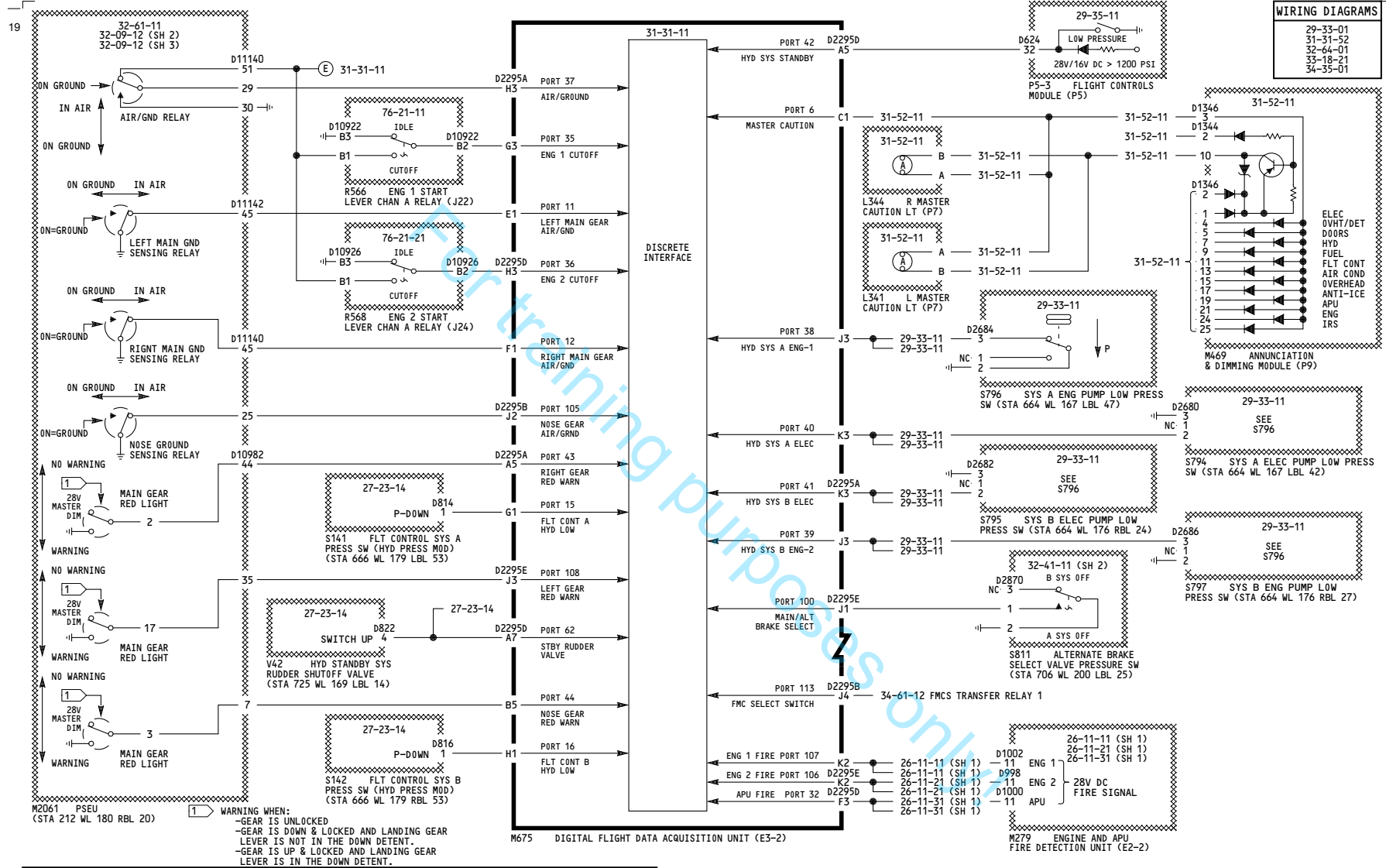
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YD006

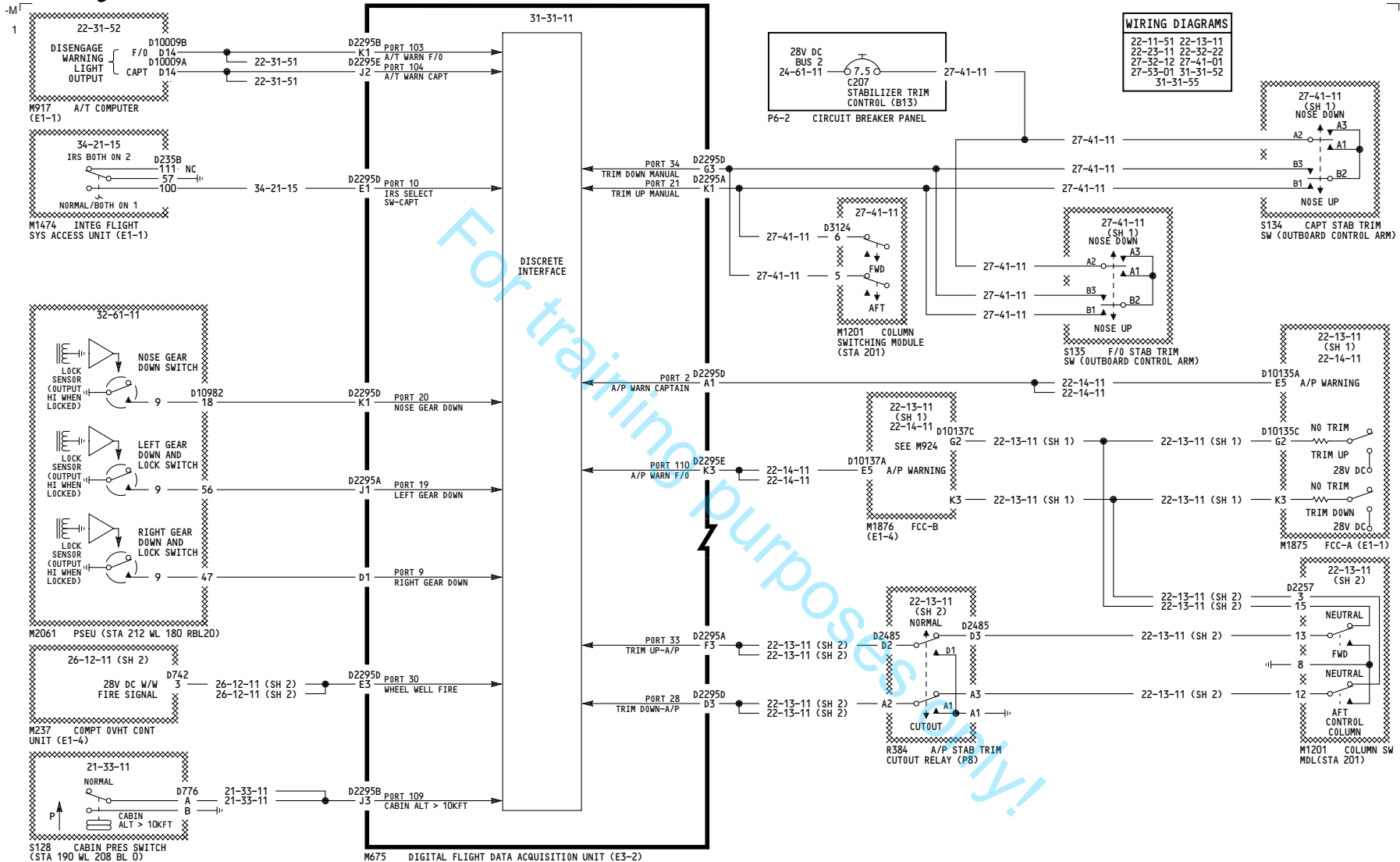
DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

Incorporates
▶ 31-1449 R01

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YD006

DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

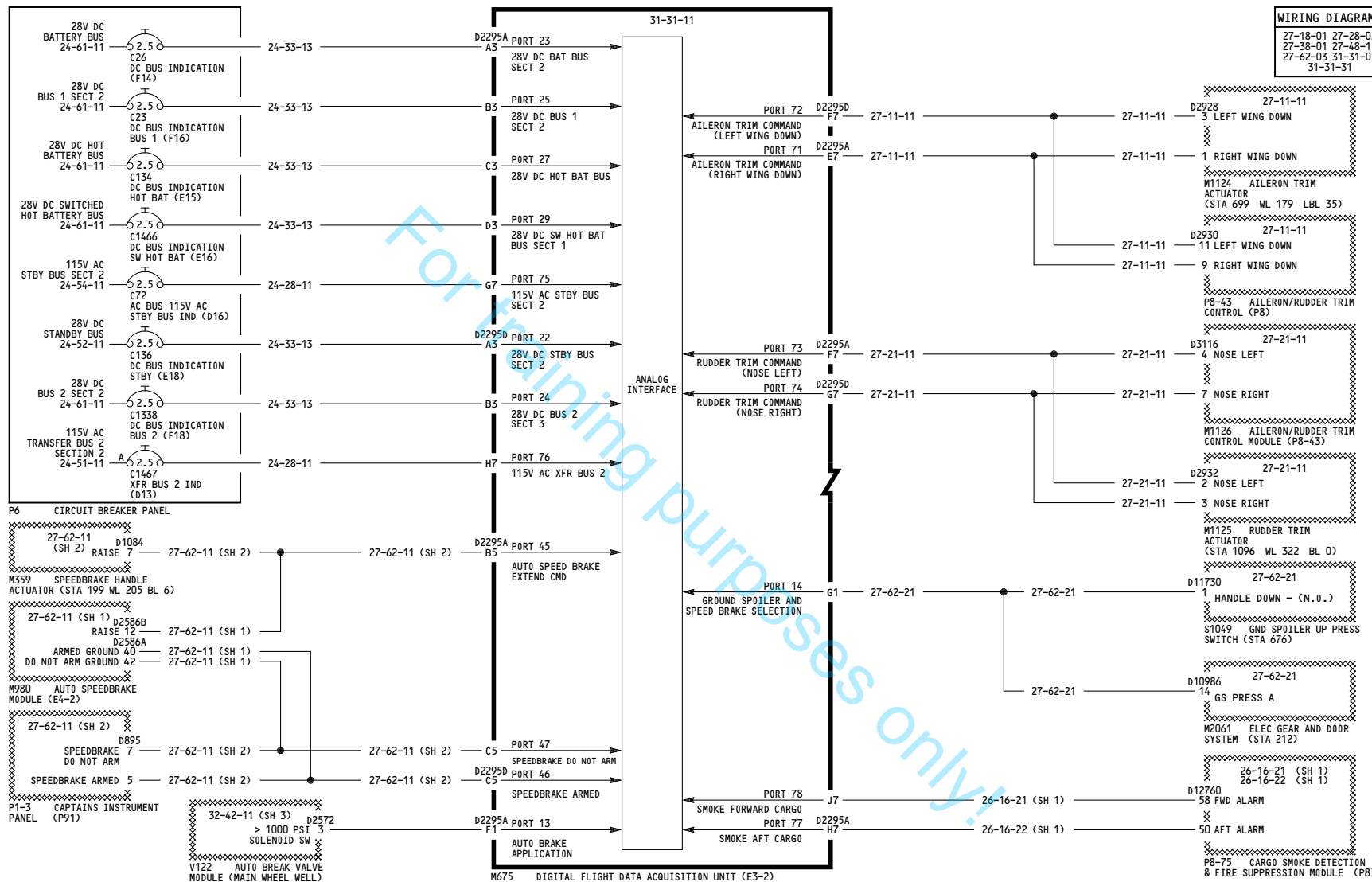
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WIRING DIAGRAMS
27-18-01 27-28-02
27-30-01 27-48-11
27-62-03 31-31-01
31-31-31



YD006

DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

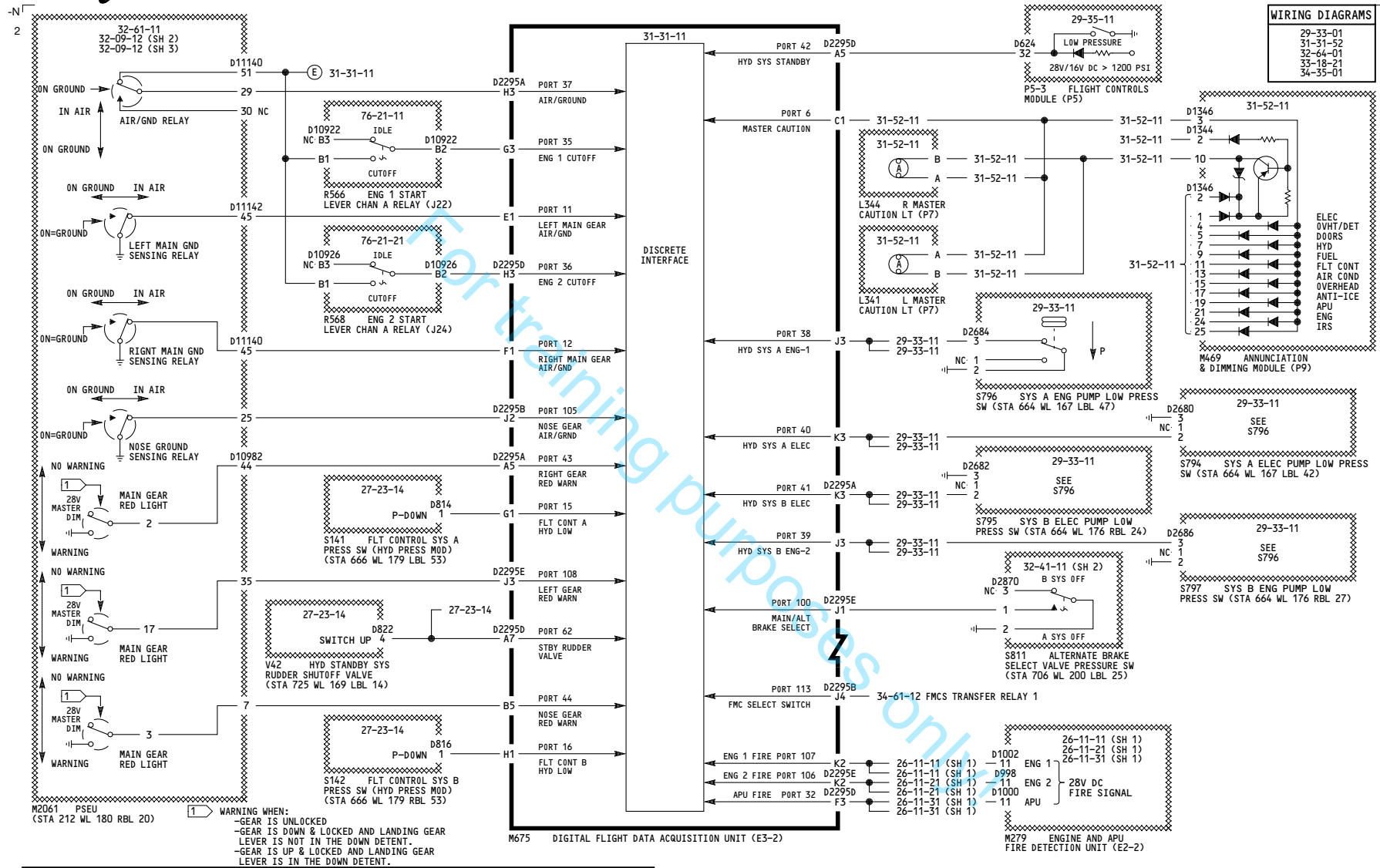
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Incorporates
26-1122

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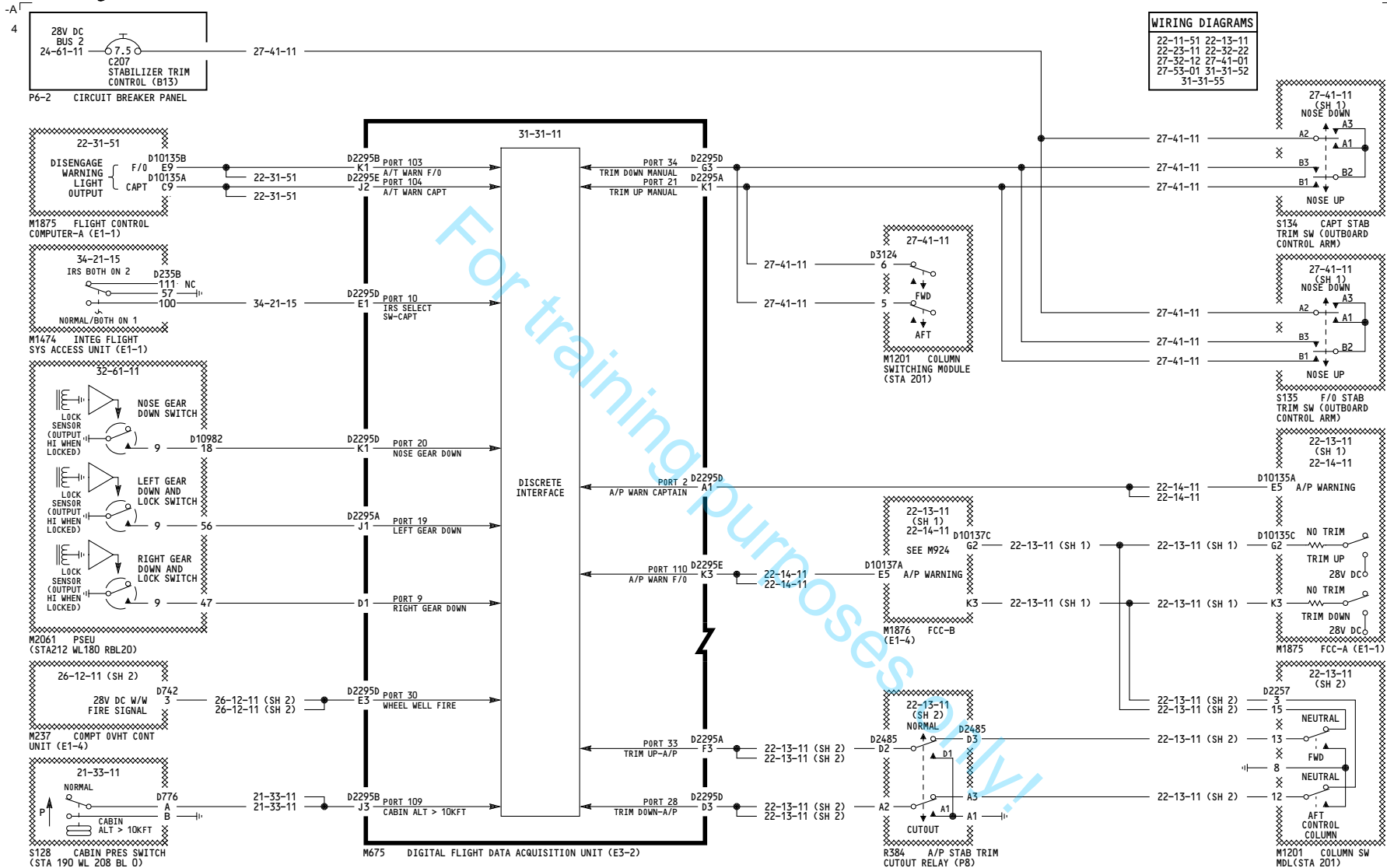
YD007-YD020

DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

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WIRING DIAGRAMS	
22-11-51	22-13-11
22-23-11	22-32-22
27-32-12	27-41-01
27-53-01	31-31-52
31-31-55	

YD007-YD020

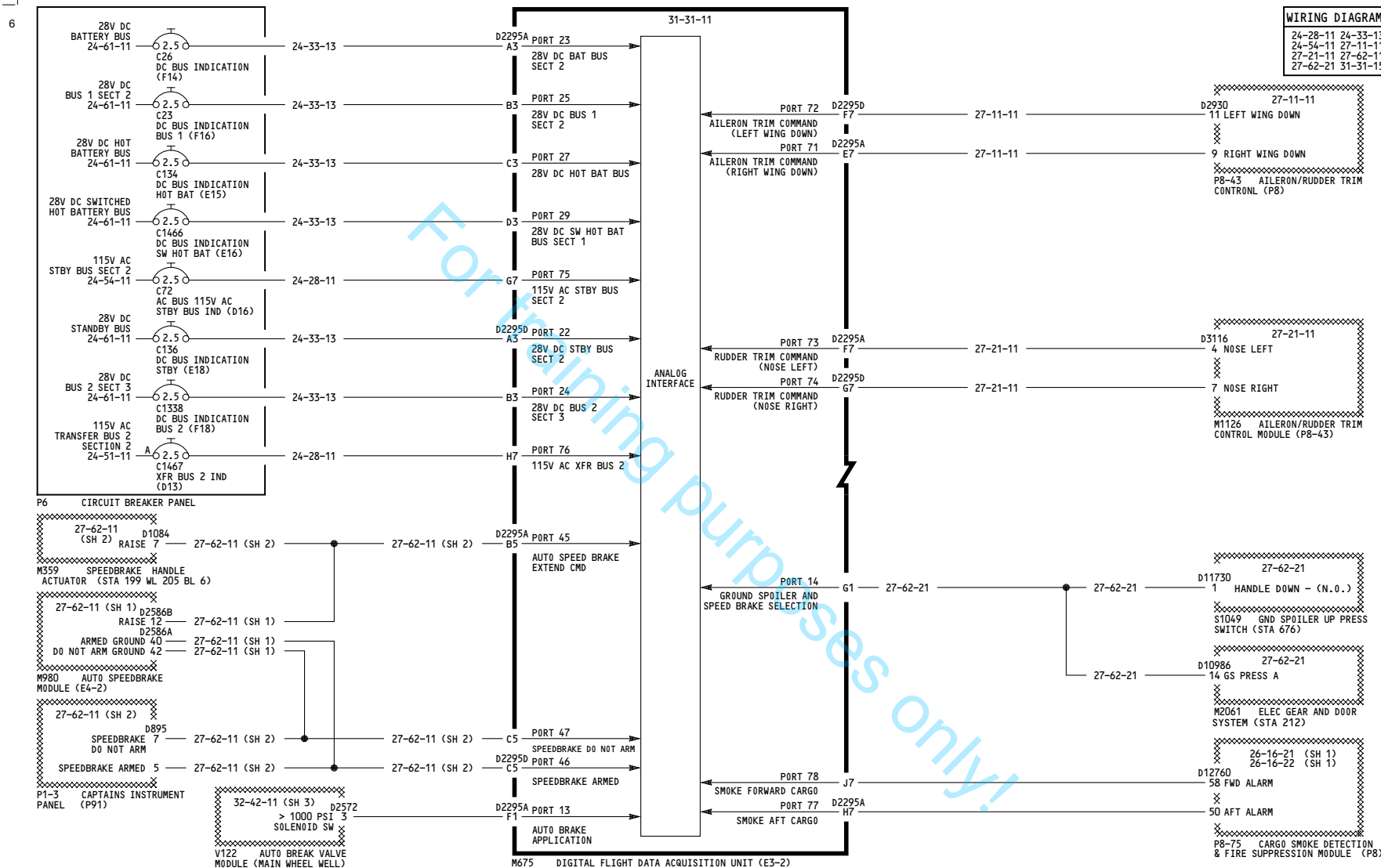
**DIGITAL FLIGHT DATA
RECORDER SYSTEM DISCRETE
INTERFACE**

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WIRING DIAGRAMS

24-28-11 24-33-13
24-54-11 27-11-11
27-21-11 27-62-11
27-62-21 31-31-15



YD007-YD020

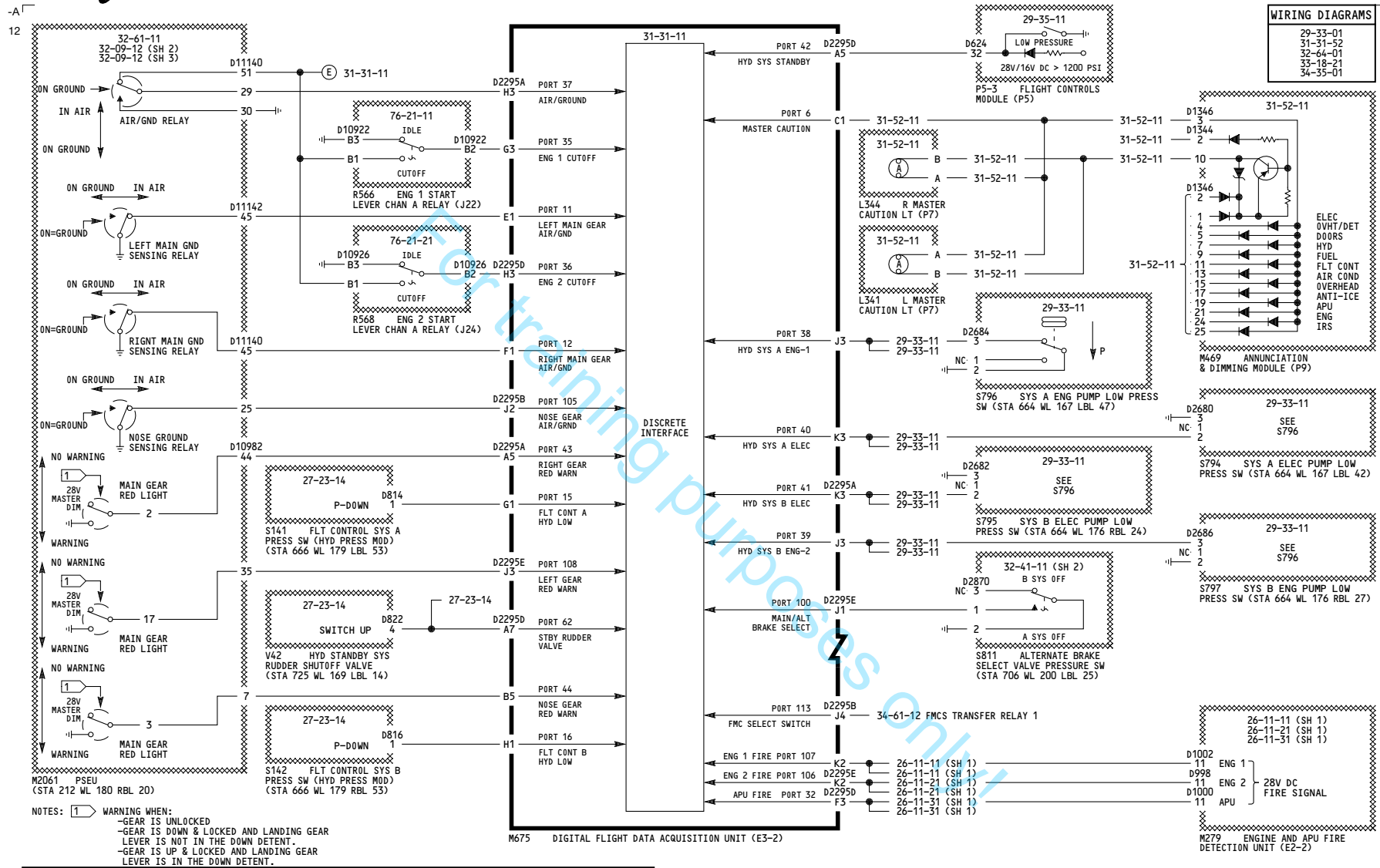
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YD007

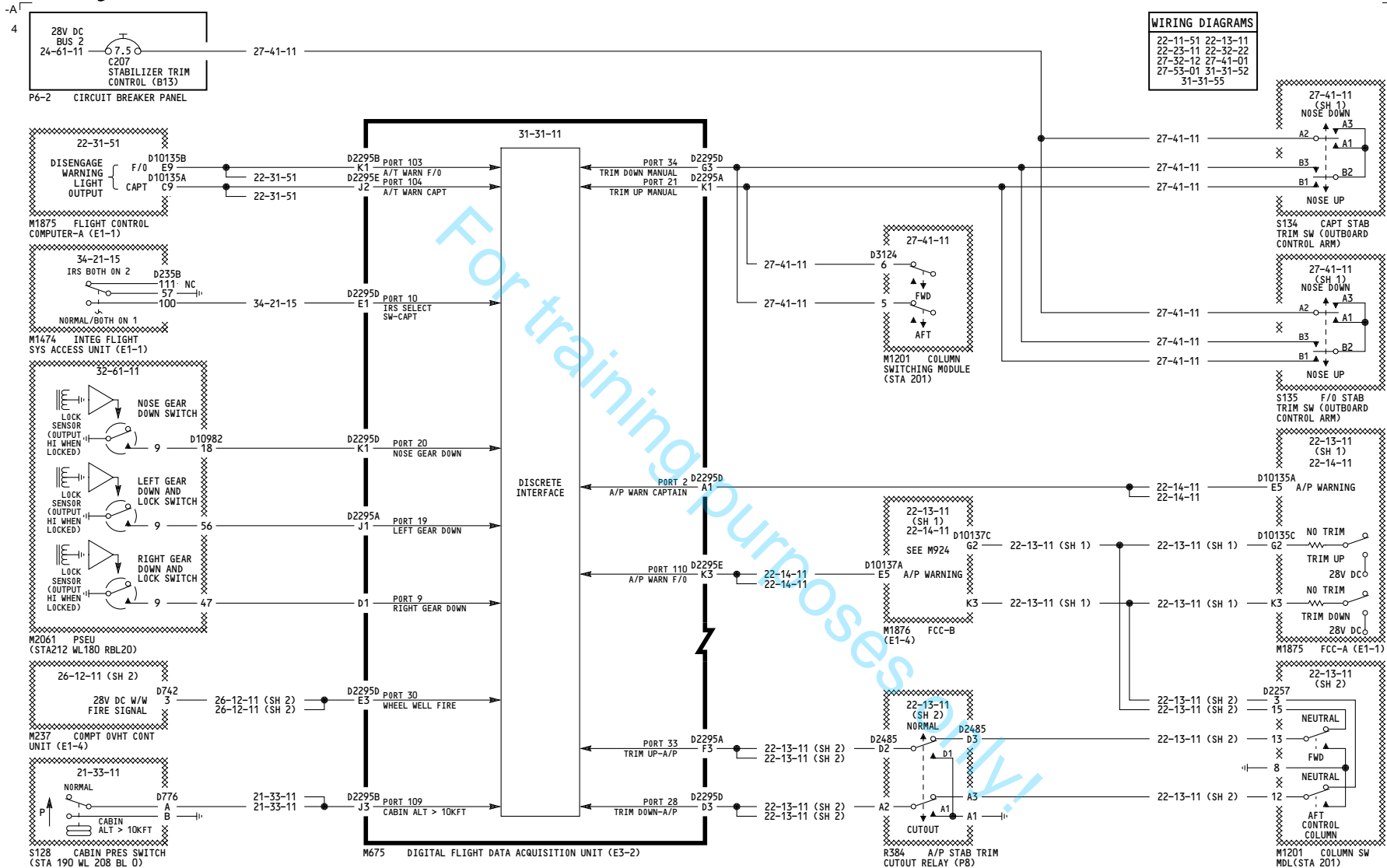
DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

Incorporates
▶ 31-1449 R01

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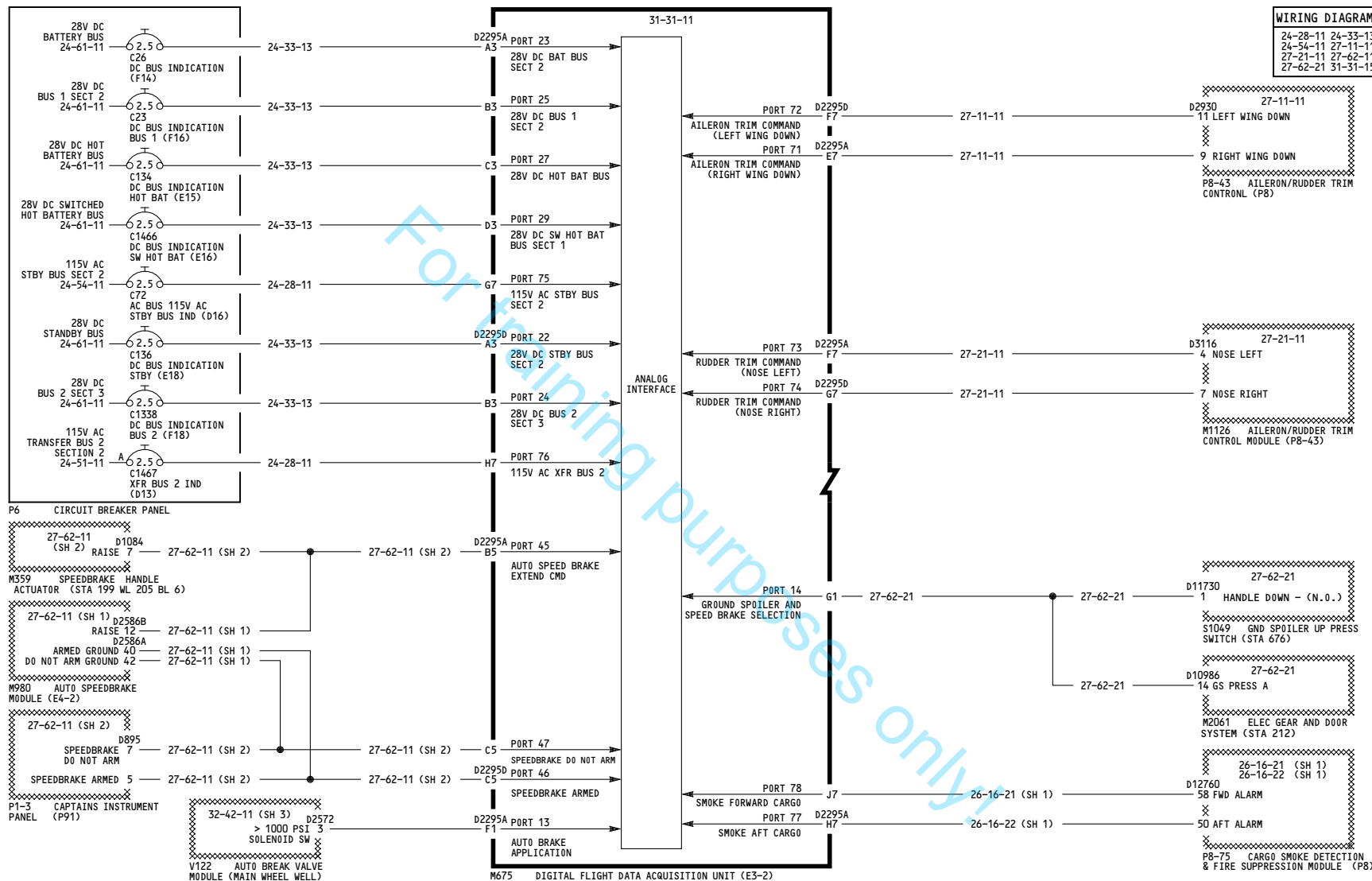
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DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

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WIRING DIAGRAMS	
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24-54-11	27-11-11
27-21-11	27-62-11
27-62-21	31-31-15



YD007

DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE

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Incorporates
26-1122

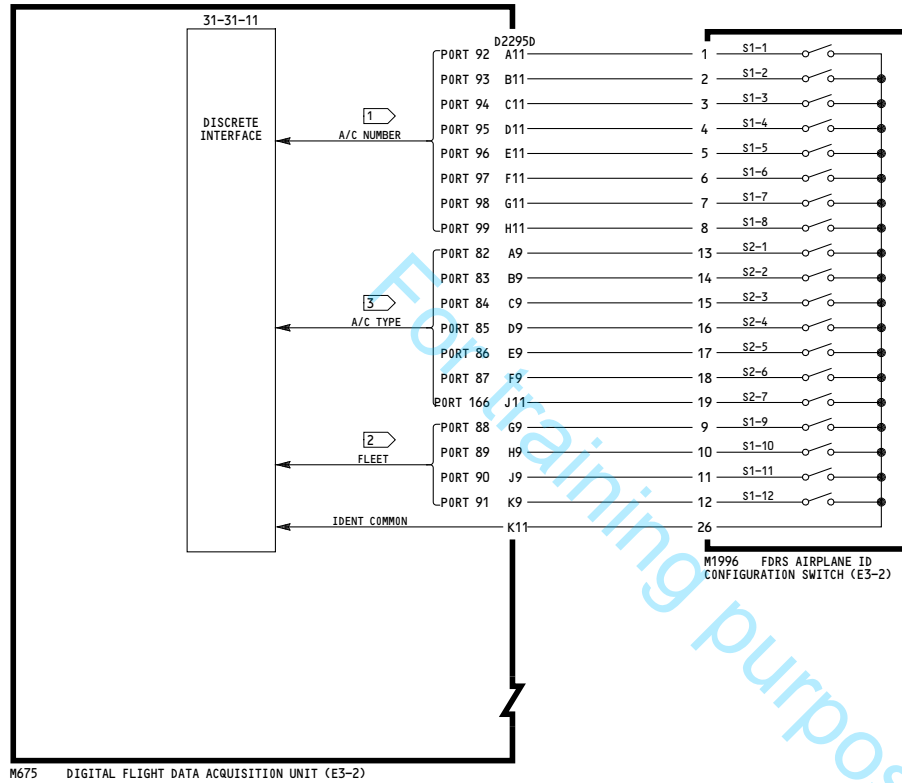
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WIRING DIAGRAMS

31-31-01
31-31-51
31-31-53



A/C EFF	A/C NUMBER ¹												FLEET ²				A/C TYPE ³							
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YD002	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	0	1				
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1 - M1996 SELECTED TO "ON"
0 - M1996 SELECTED NOT TO "ON"

NOTES:

- ¹ AIRCRAFT NUMBERS
- ² FLEET IDENTIFICATION
- ³ AIRCRAFT TYPE

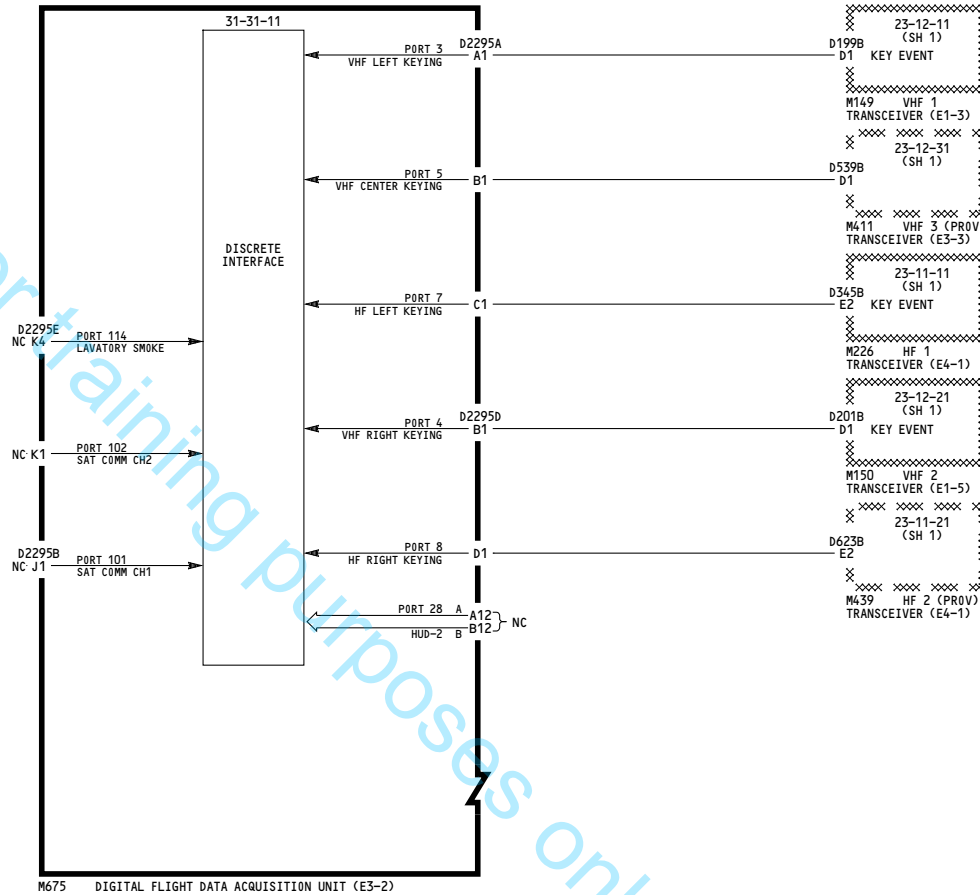
ALL	DIGITAL FLIGHT DATA RECORDER SYSTEM AIRPLANE CODING D280A238
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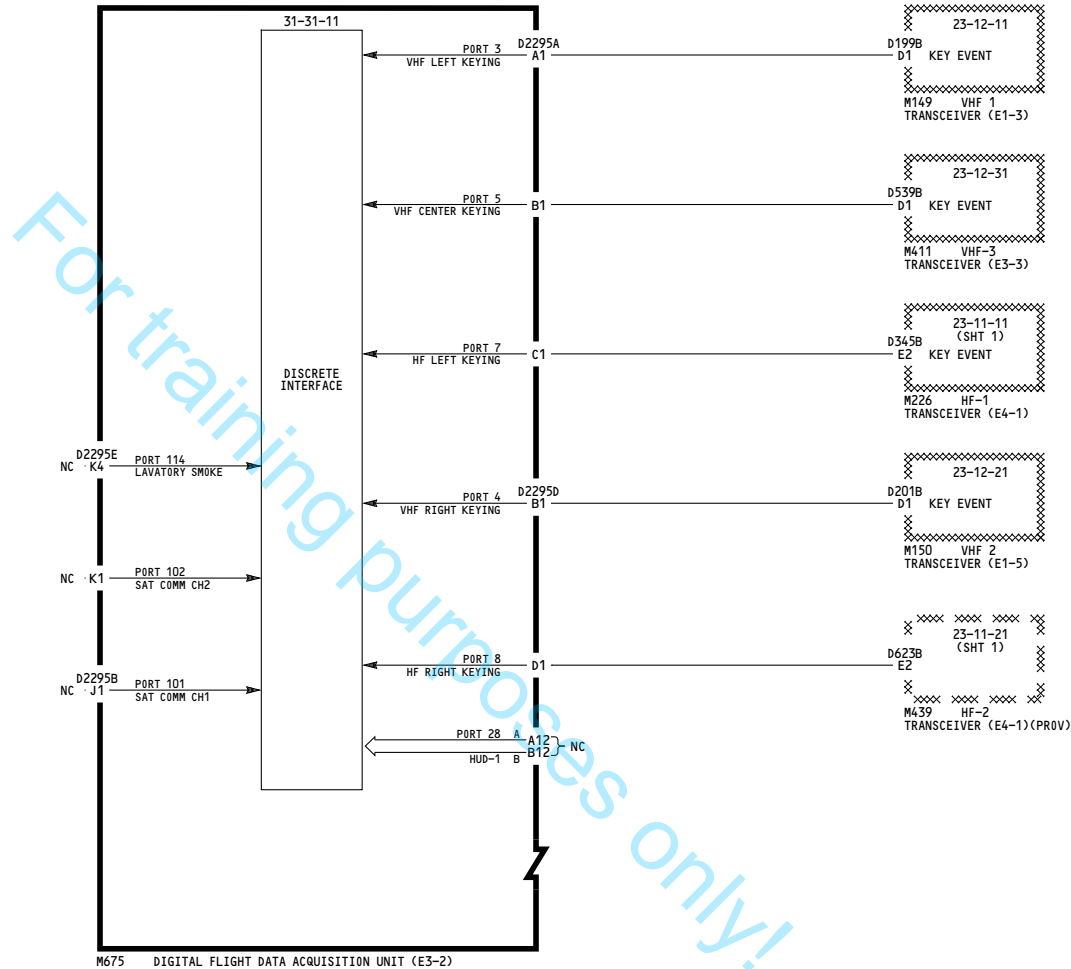
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WIRING DIAGRAMS
23-12-11
23-12-21
31-31-01
31-31-51
31-31-53



YD001-YD005	DIGITAL FLIGHT DATA RECORDER SYSTEM MANDATORY OPTIONS
	D280A238

WIRING DIAGRAMS
23-12-11
23-12-21
31-31-01
31-31-51
31-31-53



YD001-YD005

**DIGITAL FLIGHT DATA
RECORDER SYSTEM MANDATORY
OPTIONS**

Incorporates
➤ 23-1218

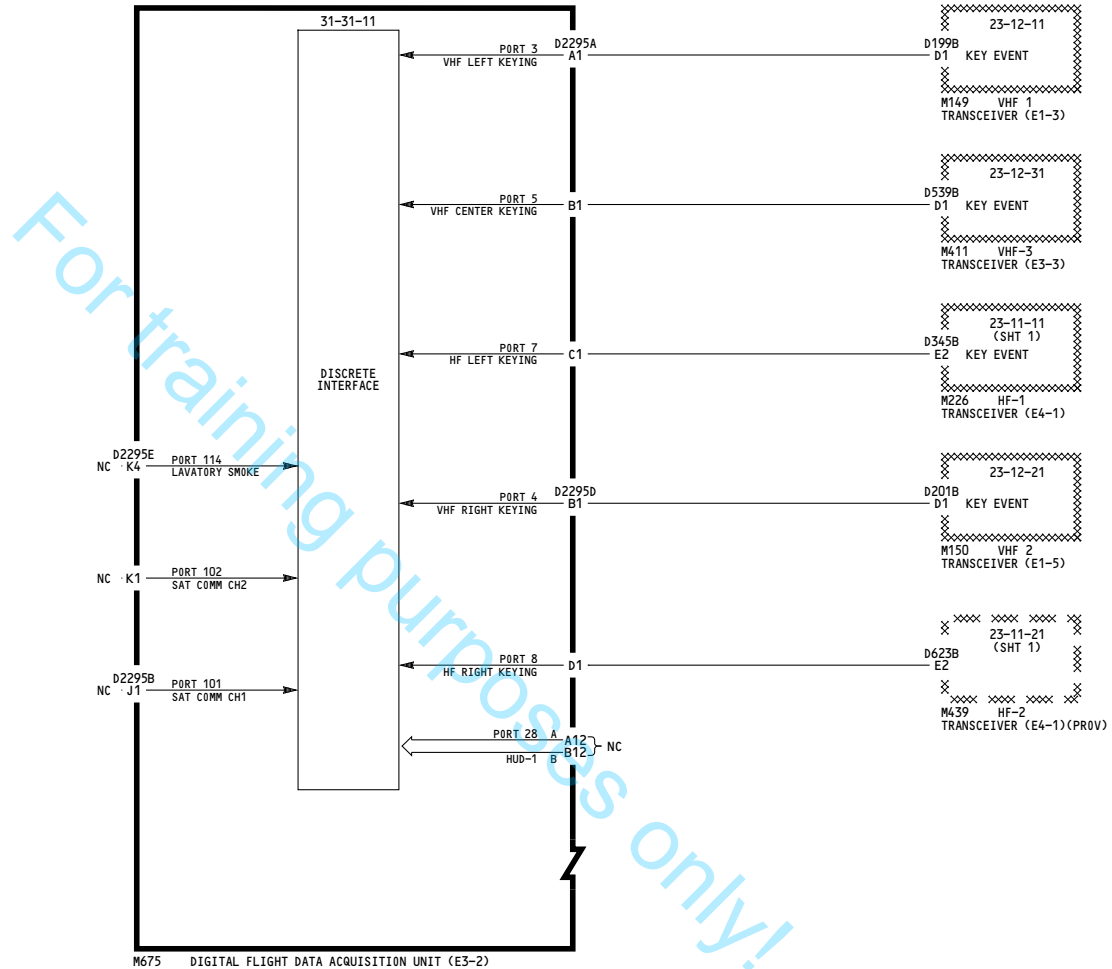
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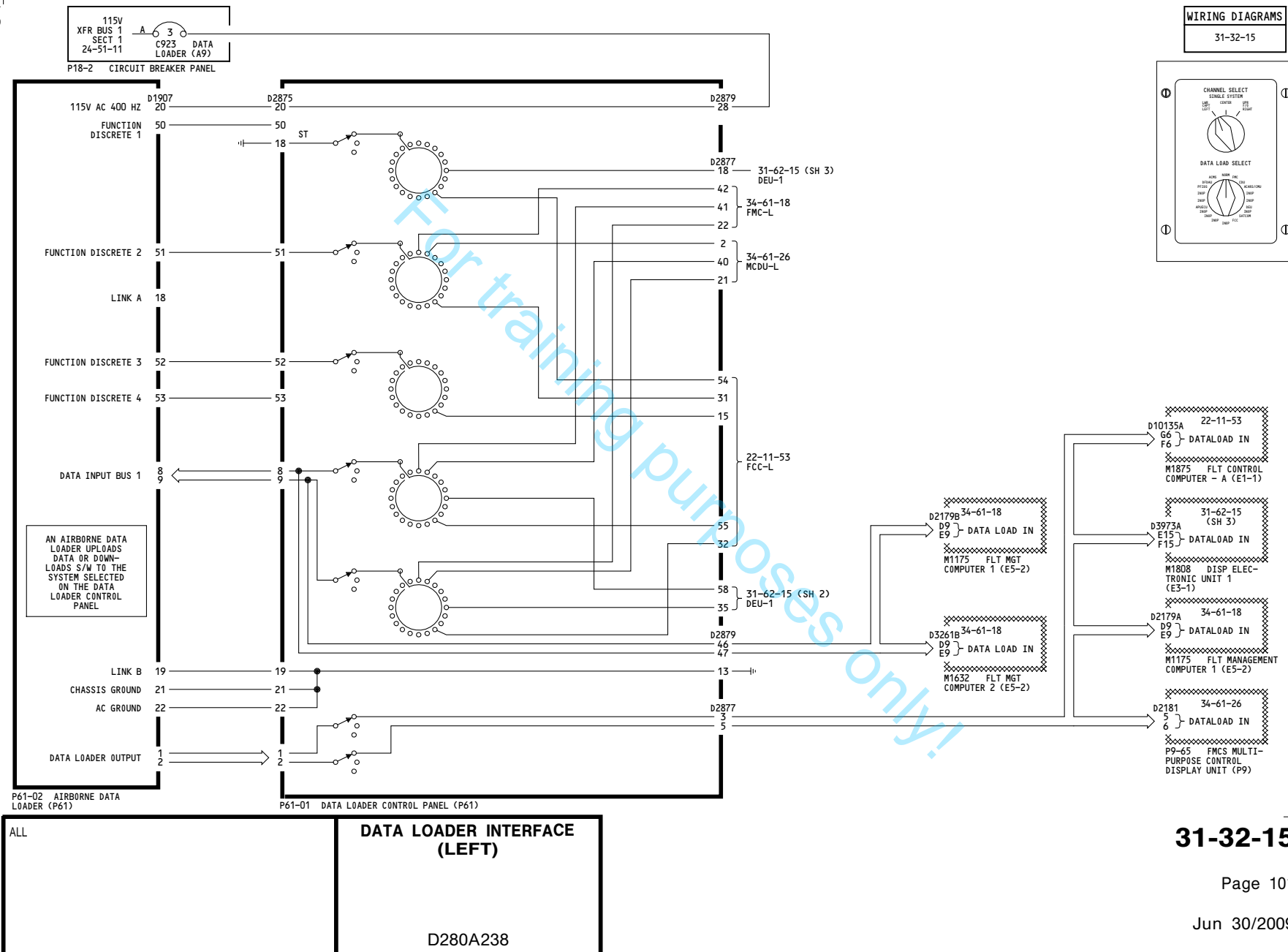
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WIRING DIAGRAMS
23-12-11
23-12-21
31-31-01
31-31-51
31-31-53

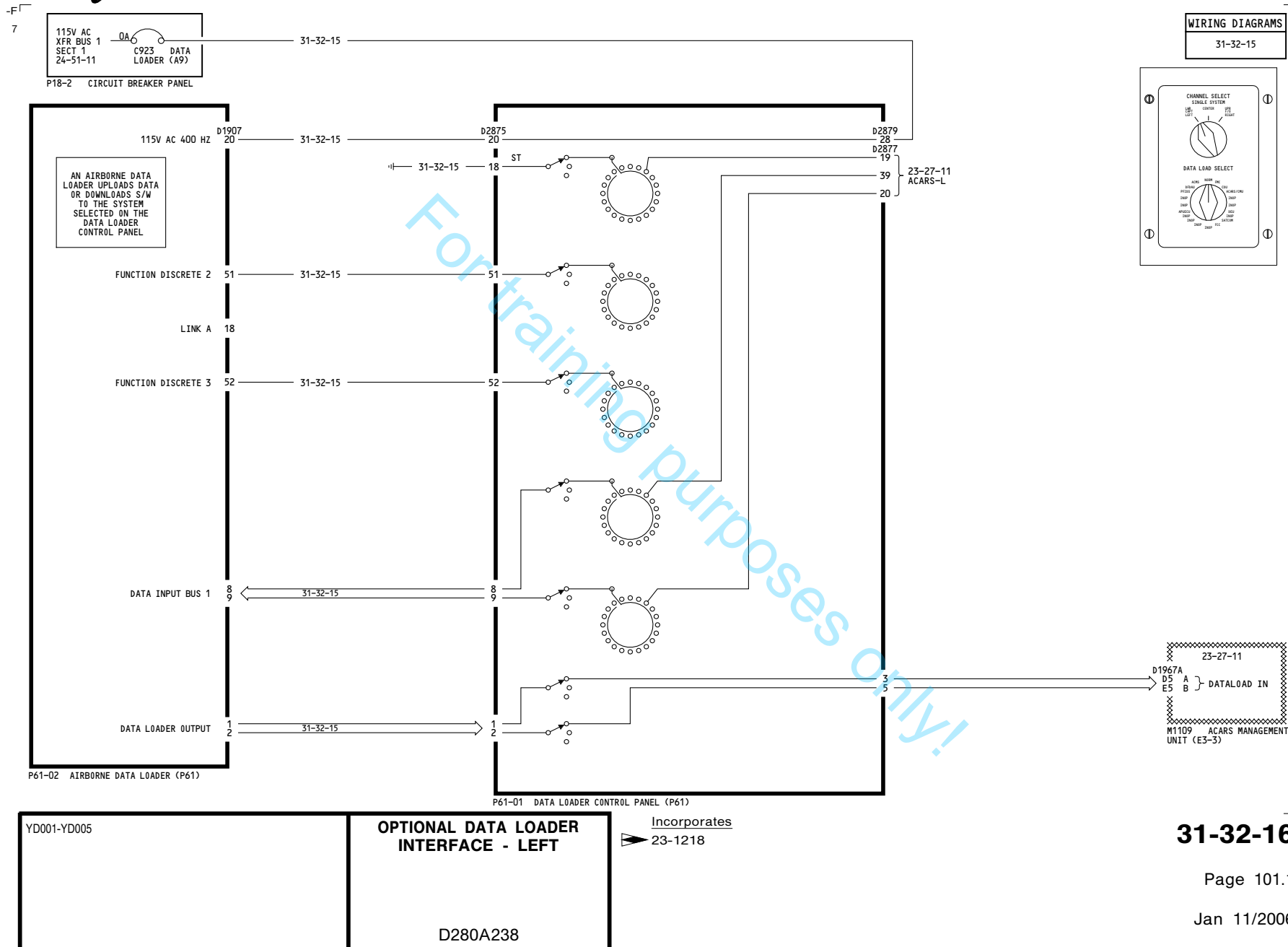


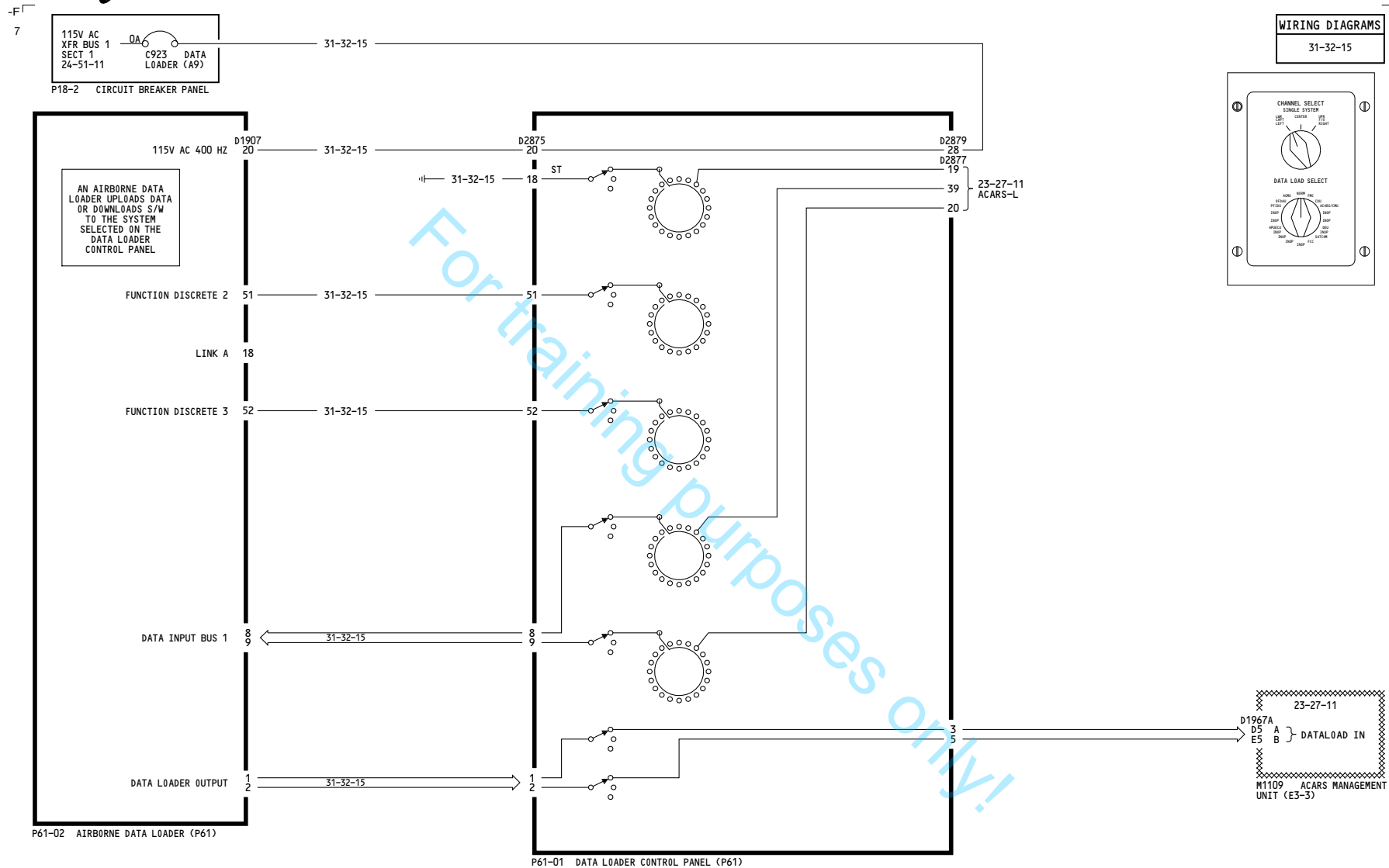
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	D280A238

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YD006-YD020

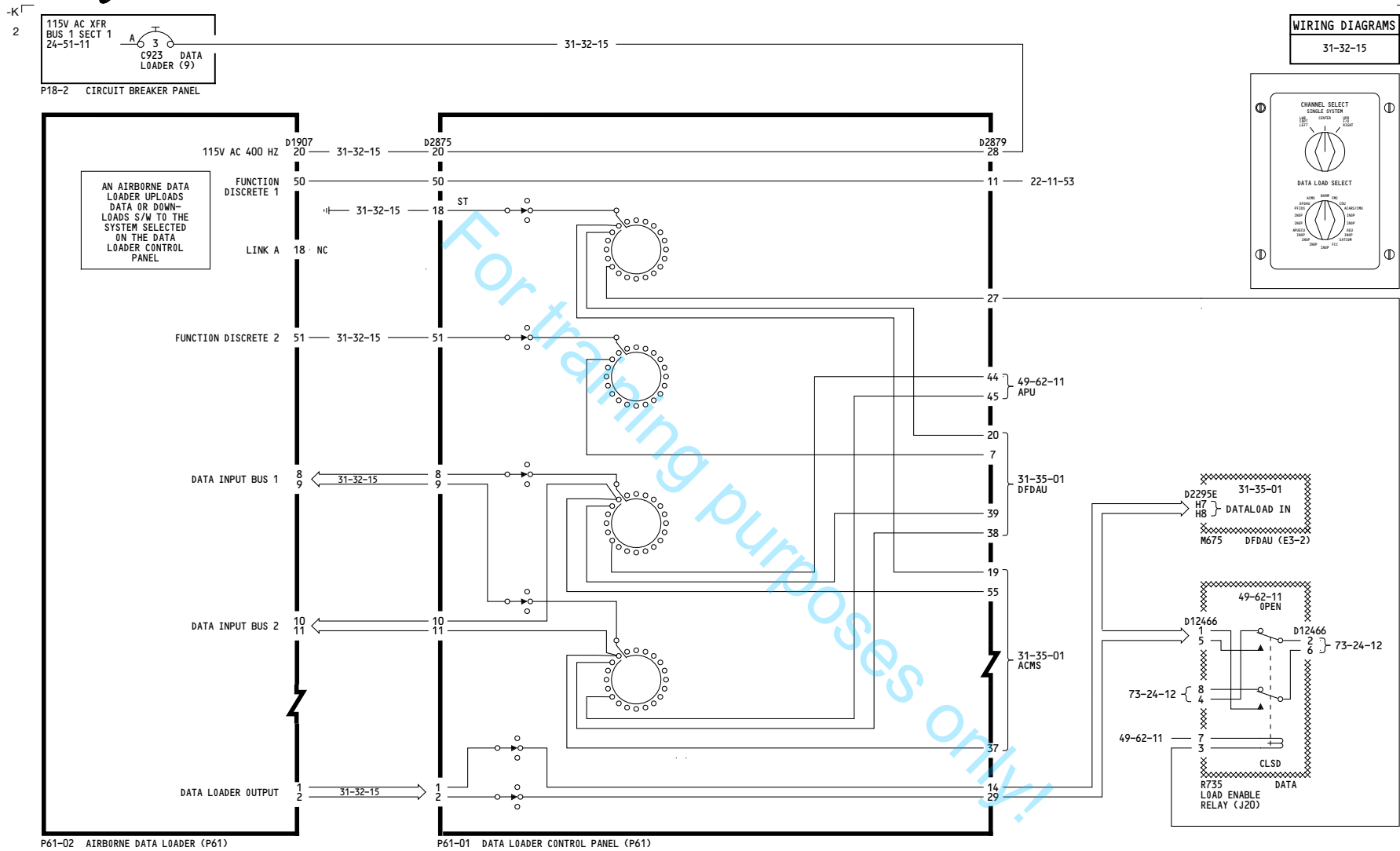
OPTIONAL DATA LOADER INTERFACE - LEFT

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ALL

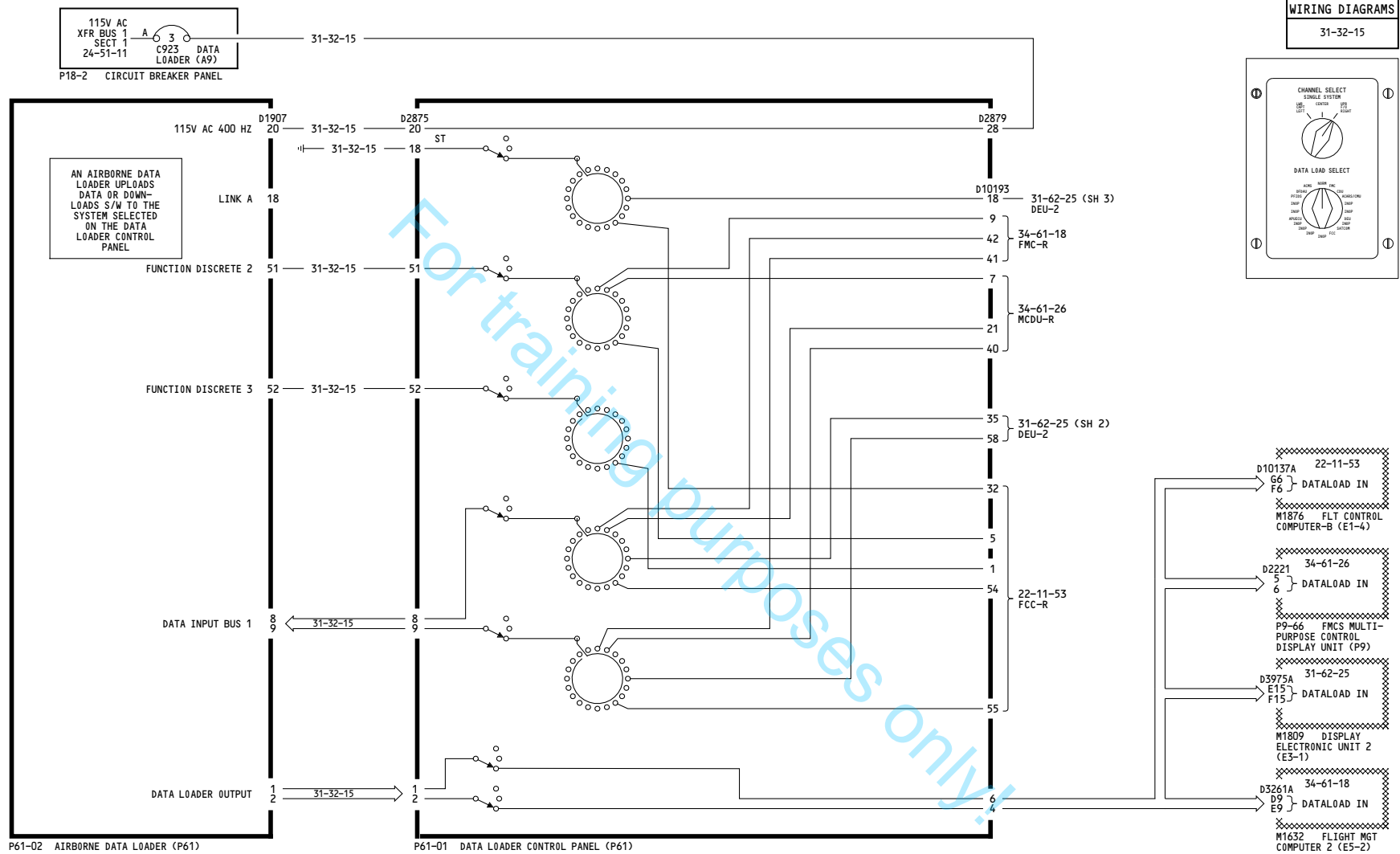
**DATA LOADER INTERFACE
(CENTER)**

D280A238

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DATA LOADER INTERFACE (RIGHT)

D280A238

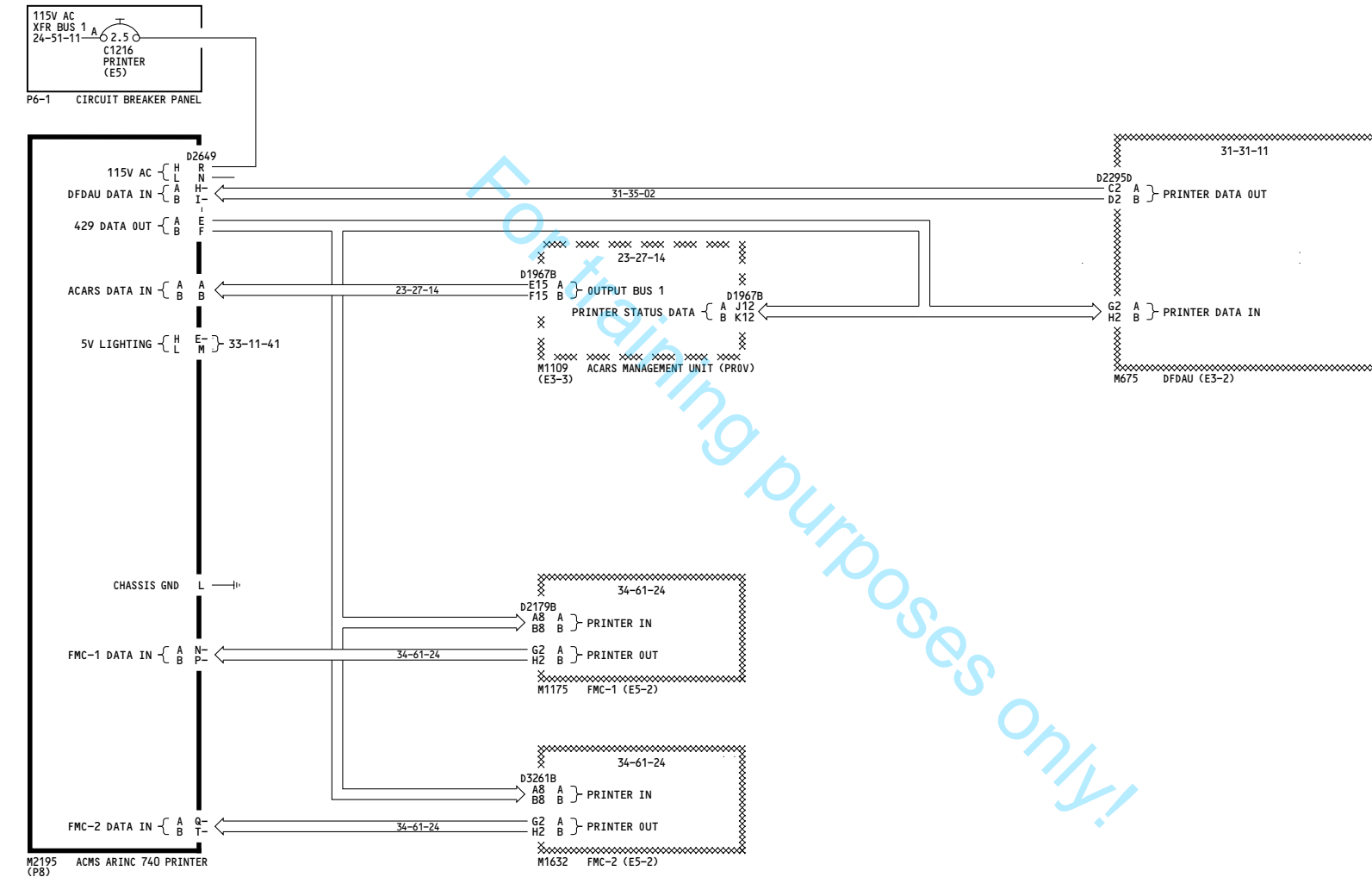
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YD001-YD005

PRINTER INTERFACE

D280A238

31-33-01

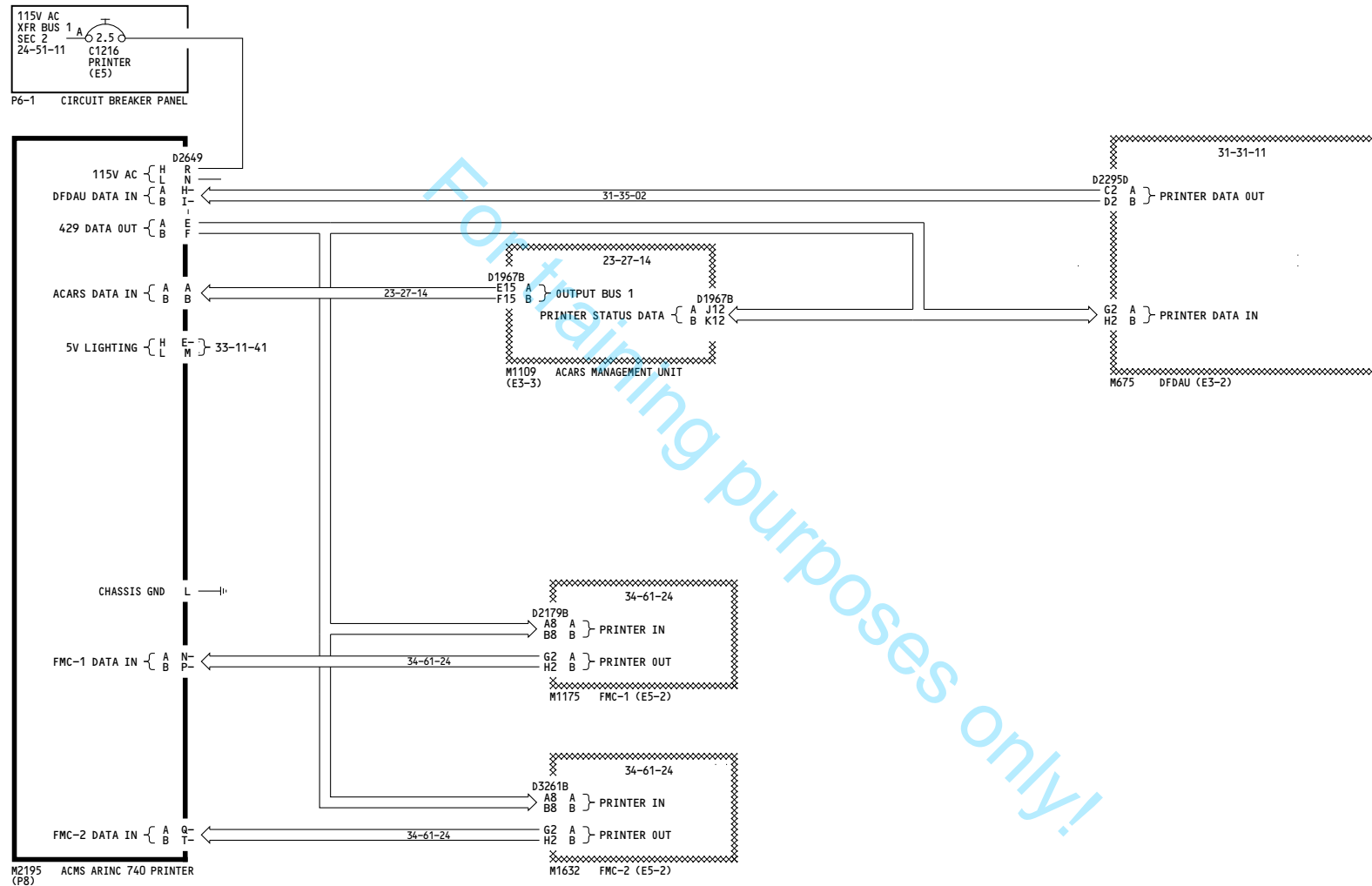
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PRINTER INTERFACE

Incorporates
▶ 23-1218

31-33-01

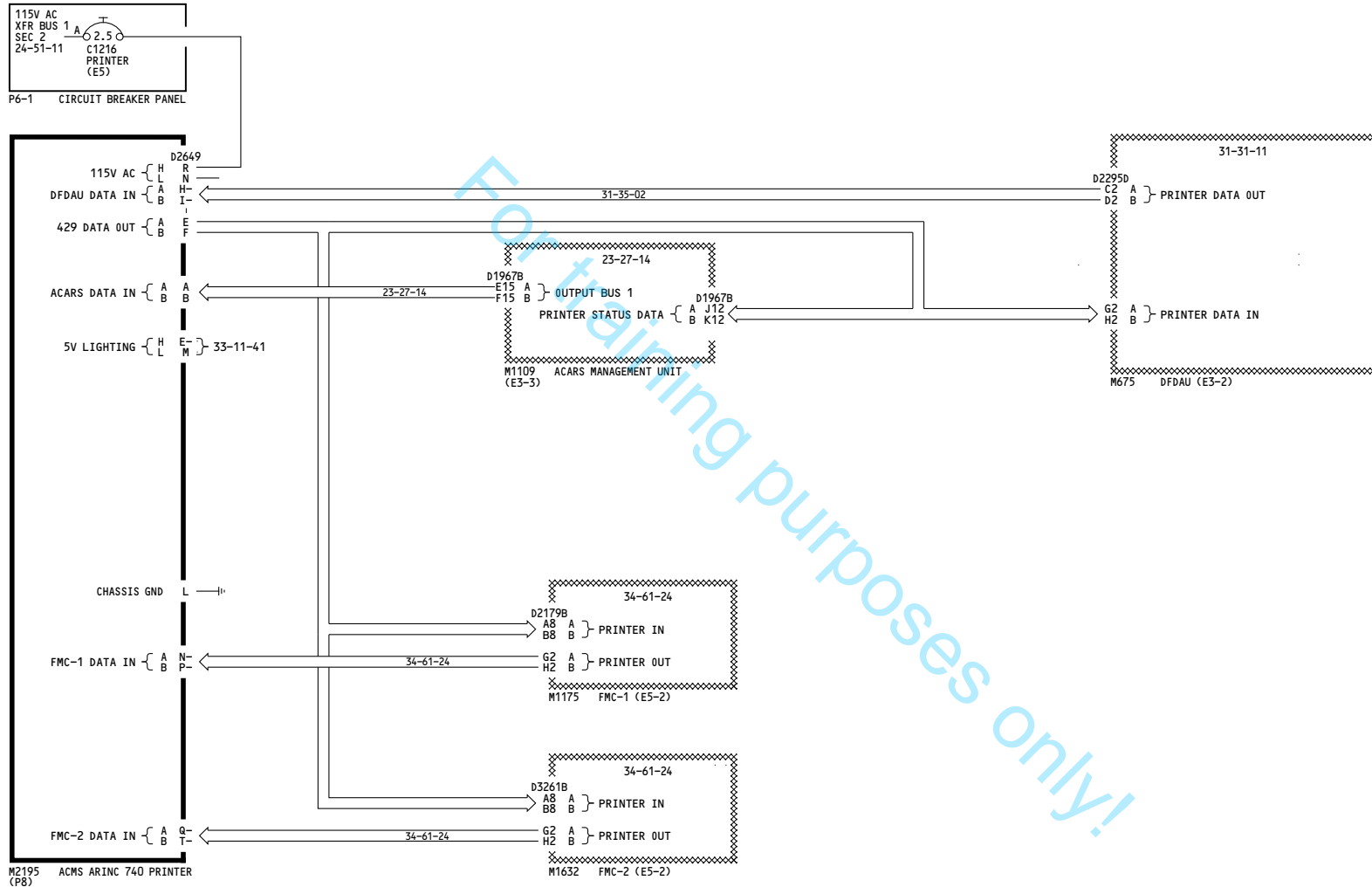
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YD006, YD008-YD020

PRINTER INTERFACE

D280A238

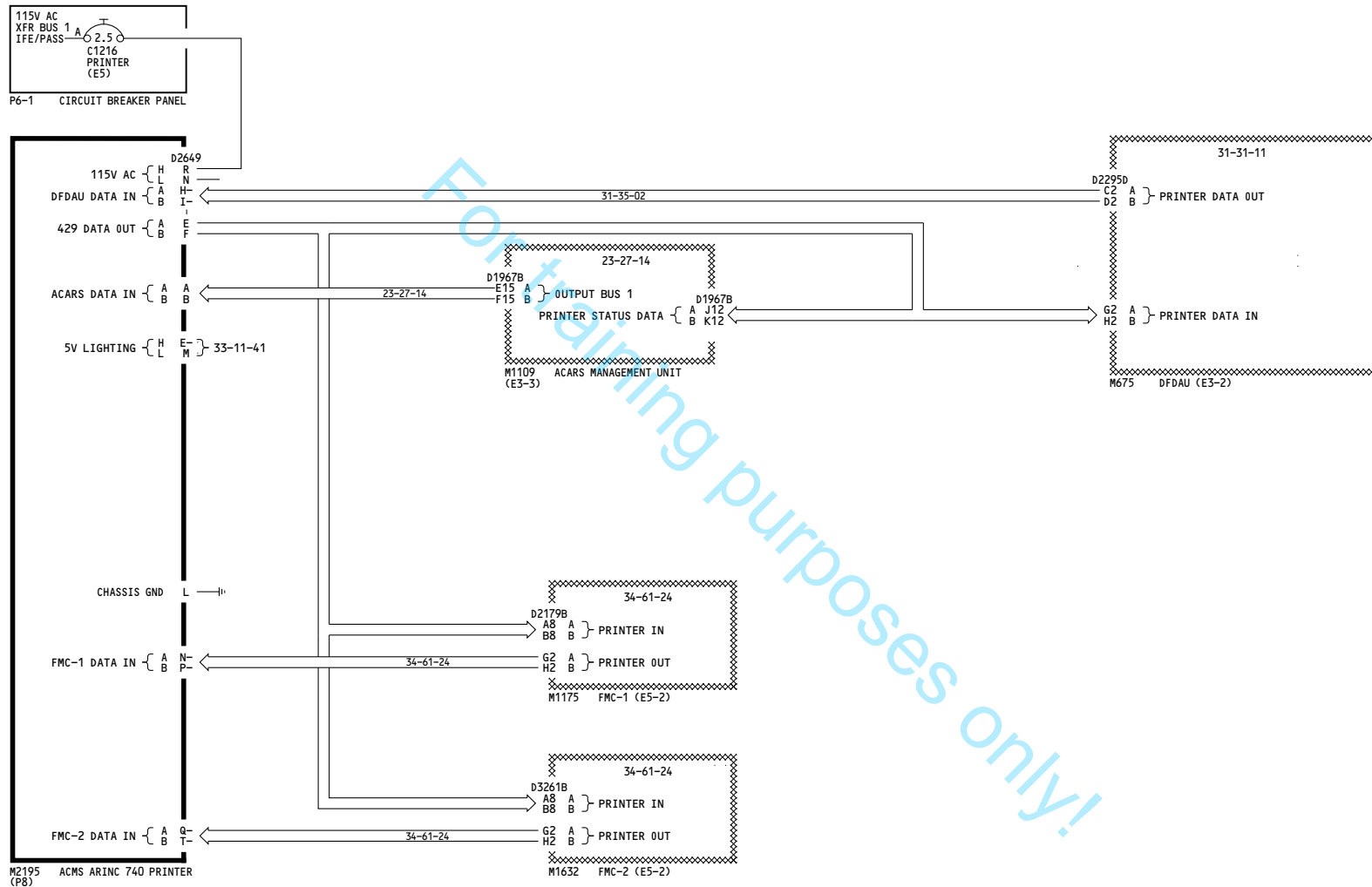
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WIRING DIAGRAMS

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34-61-12 34-61-15



YD007

PRINTER INTERFACE

D280A238

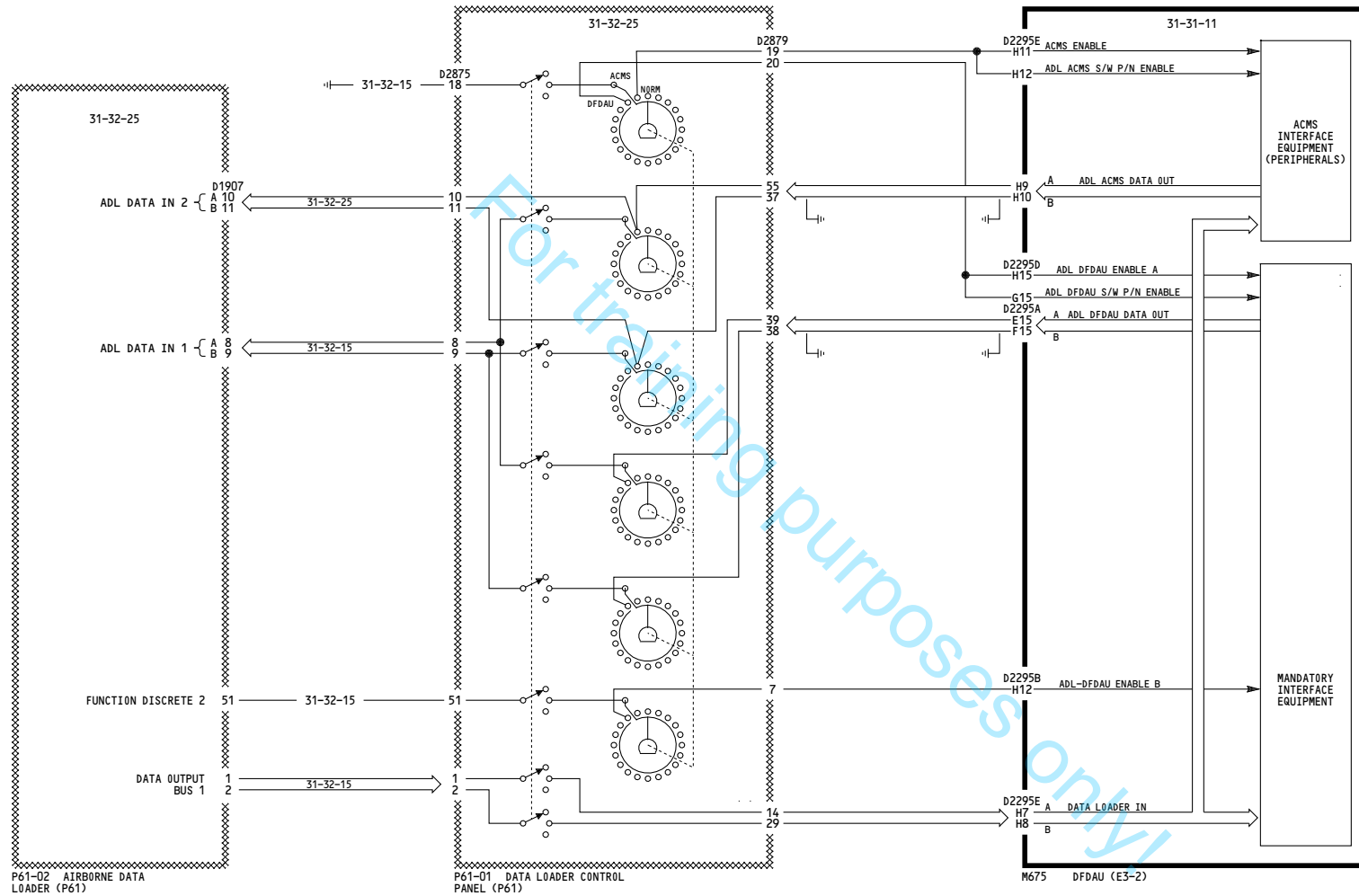
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WIRING DIAGRAMS

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**DIGITAL FLIGHT DATA
RECORDER SYSTEM - DATA
LOADER INTERFACE**

D280A238

31-35-01

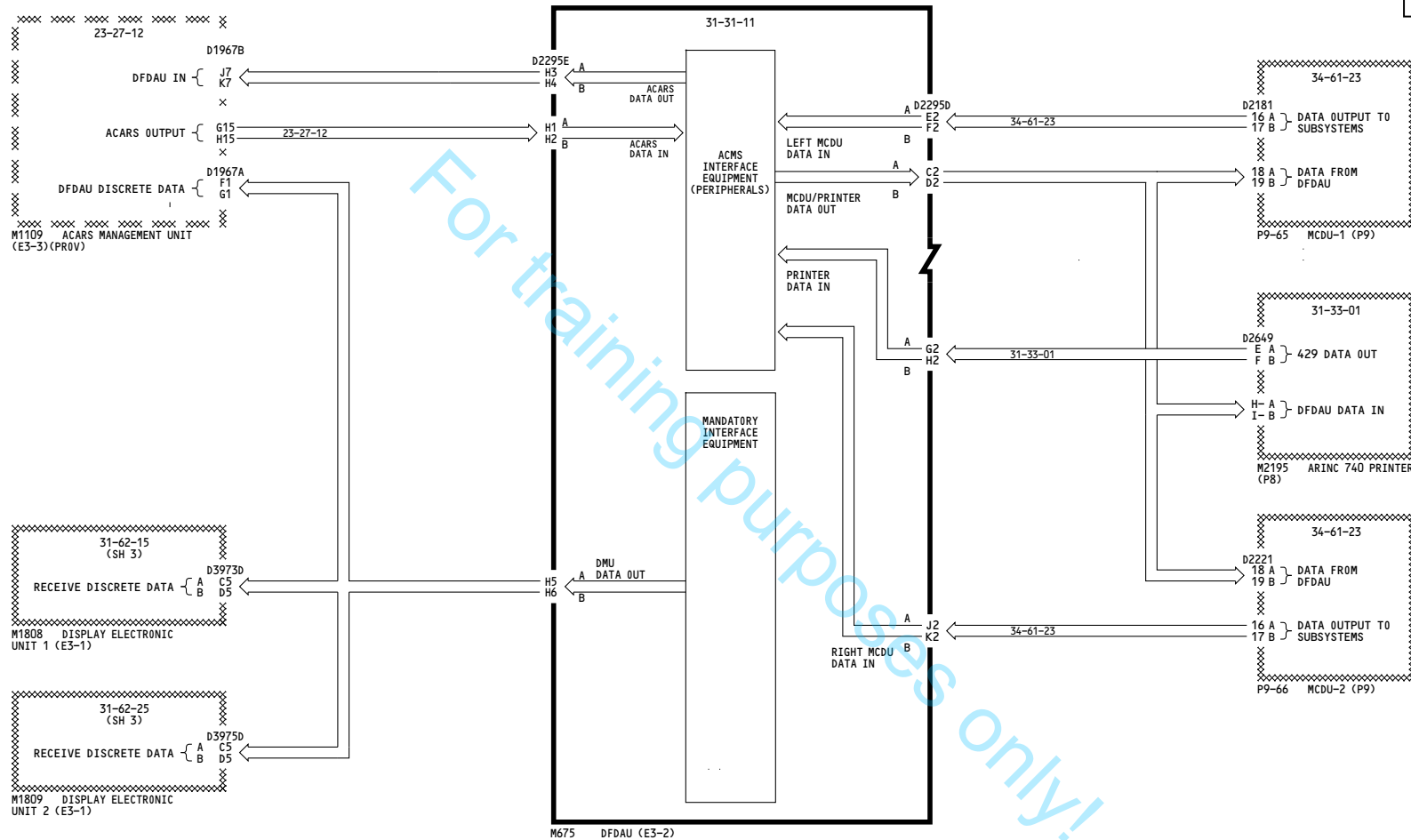
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WIRING DIAGRAMS

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YD001-YD005

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - ACMS
INTERFACE**

D280A238

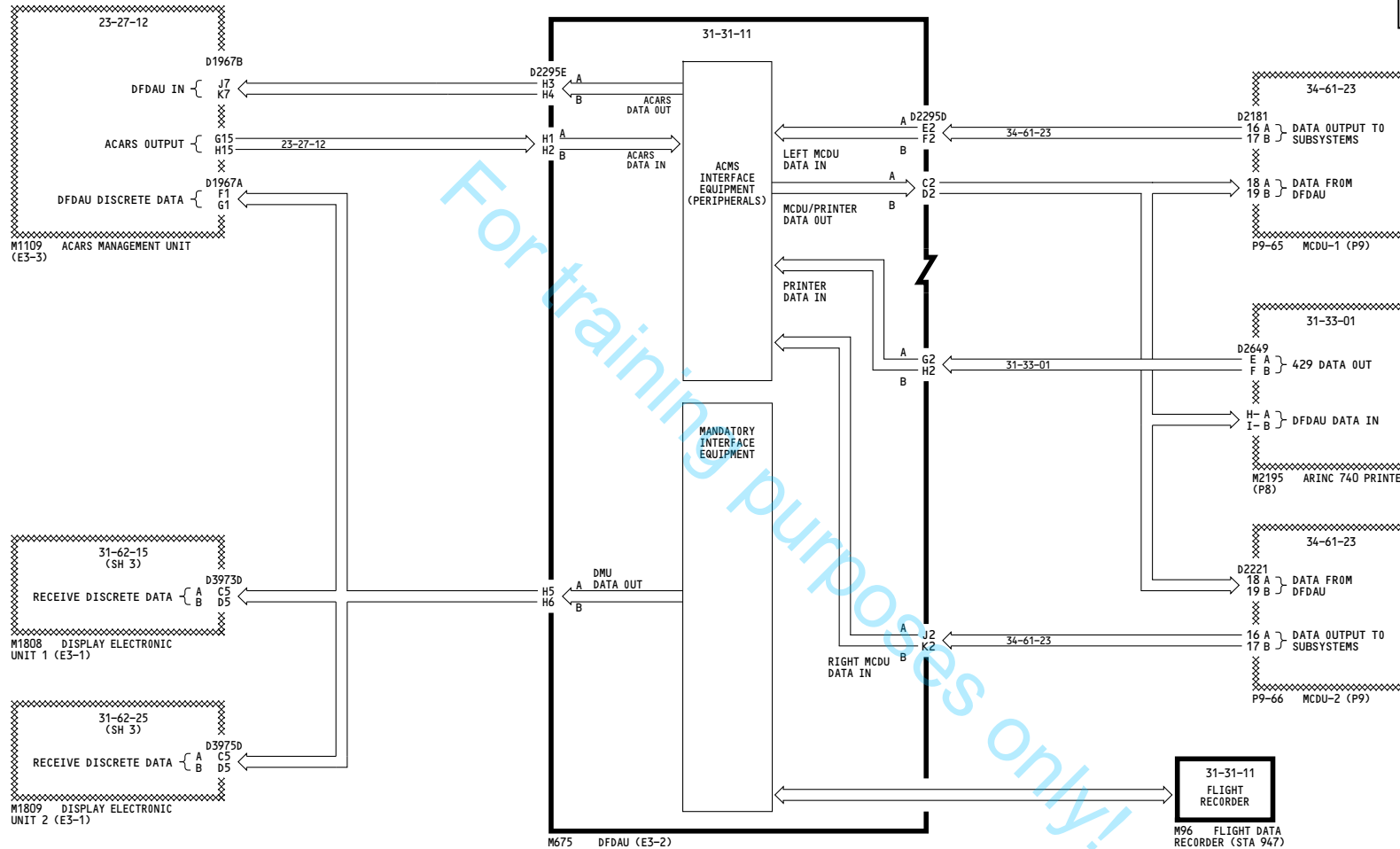
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YD001-YD005

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - ACMS
INTERFACE**

D280A238

Incorporates
23-1218

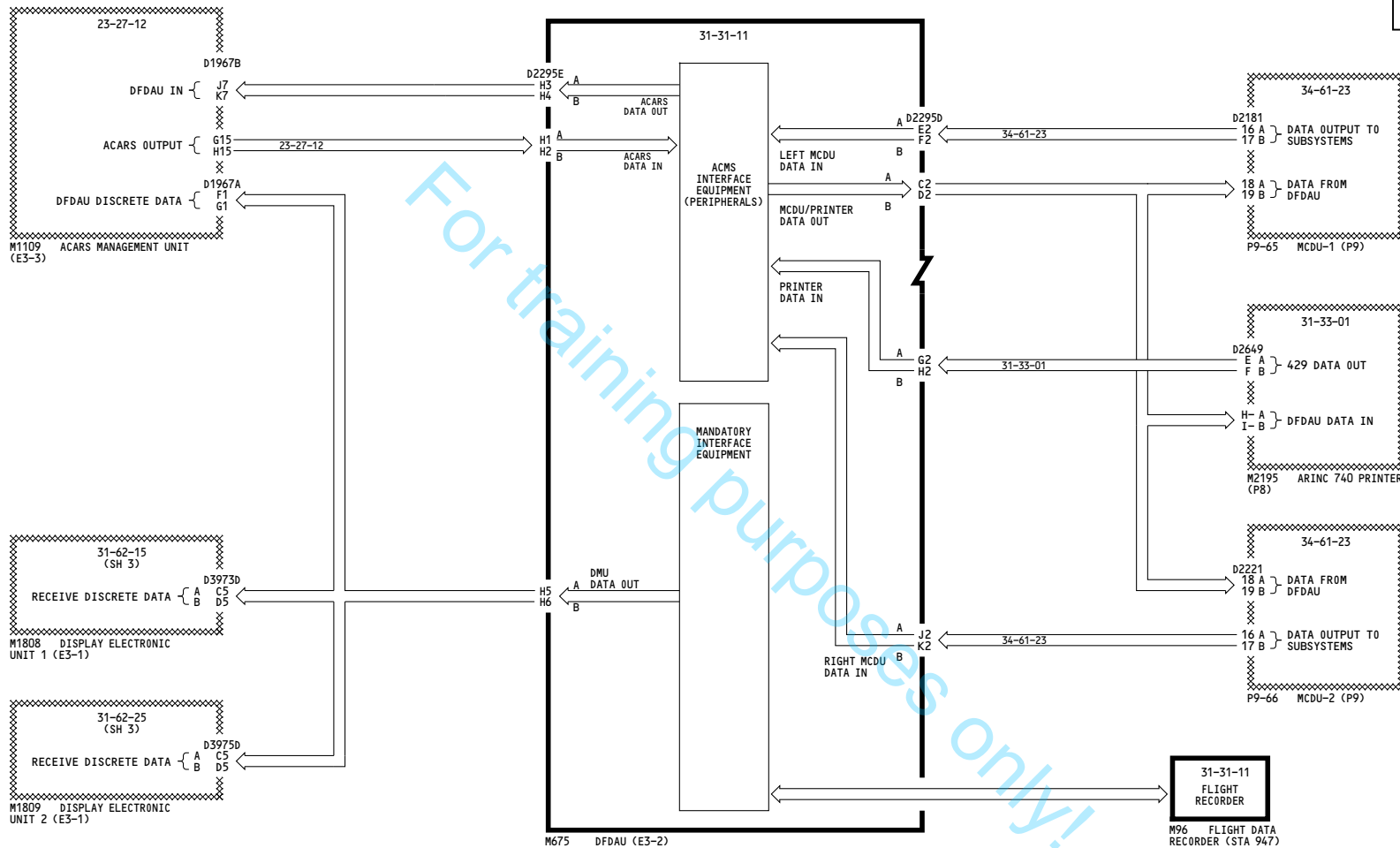
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23-27-11 23-27-12
31-31-01 31-31-02
33-11-21 33-11-41
34-61-12 34-61-15



YD006-YD020

**DIGITAL FLIGHT DATA
RECORDER SYSTEM - ACMS
INTERFACE**

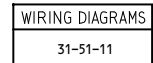
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1 CAP & STOW NEAR D2295

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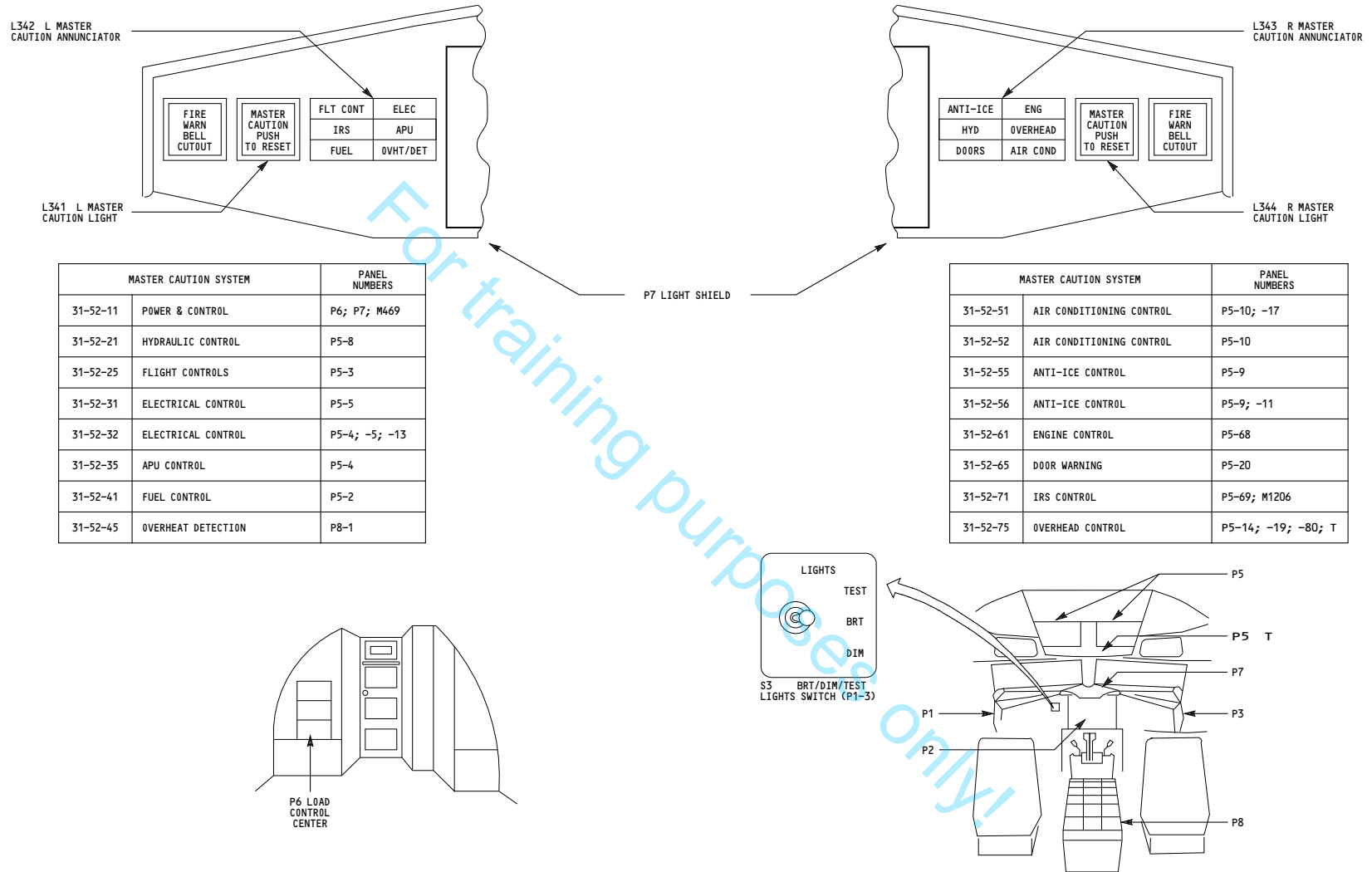


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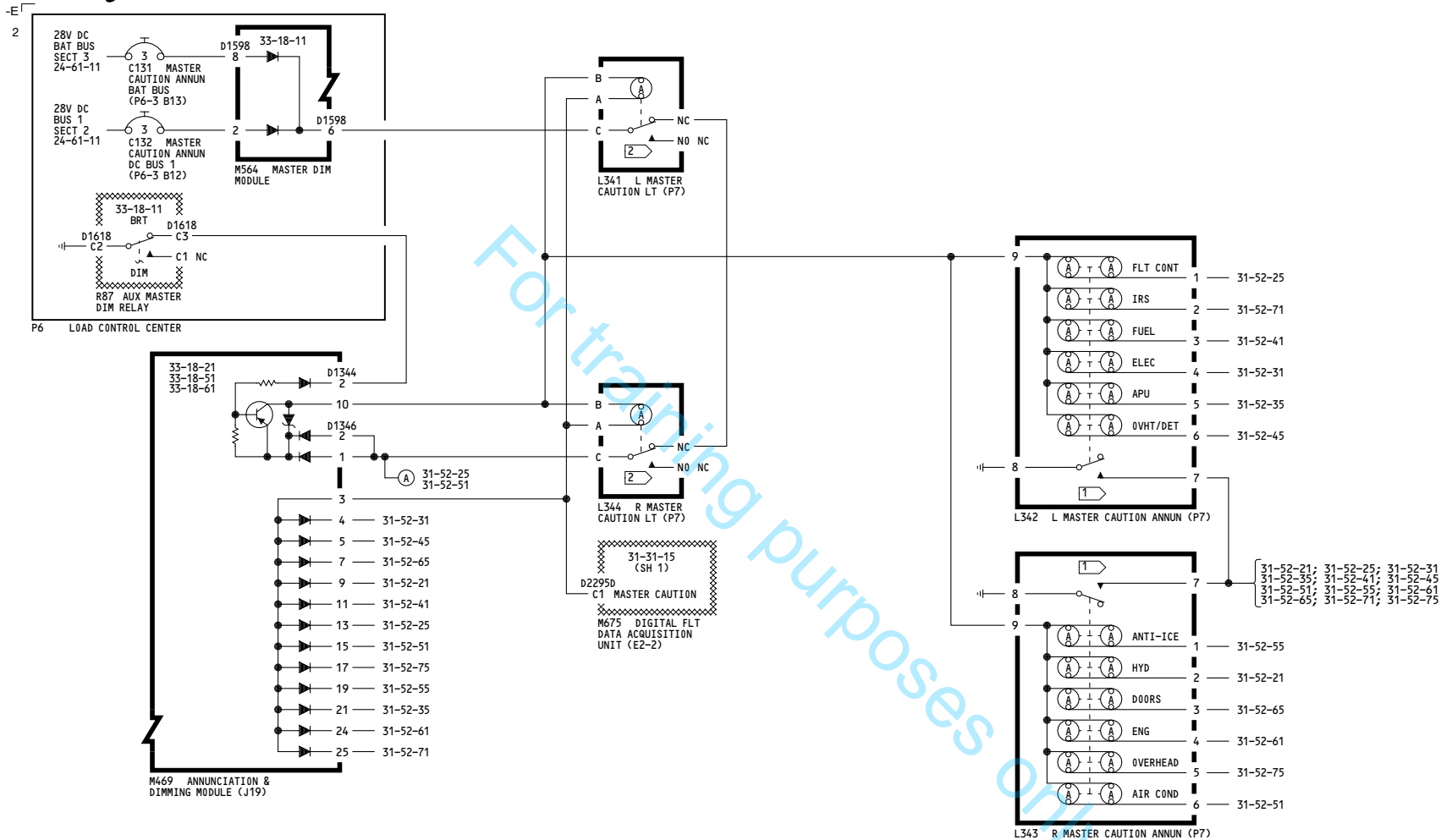
**MASTER CAUTION SYSTEM-
INDEX**

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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC ON ALL MASTER CAUTION CARDS TO ILLUMINATE THE MC LIGHT. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT KEEPS ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.
- 2 PRESSING THE LIGHT REMOVES THE POWER TO ALL MASTER CAUTION CARDS TO ALLOW RESETTING THE LOGIC FOR ANY ADDITIONAL FAULT ANNUNCIATION.

YD001-YD007

MASTER CAUTION SYSTEM- POWER & CONTROL

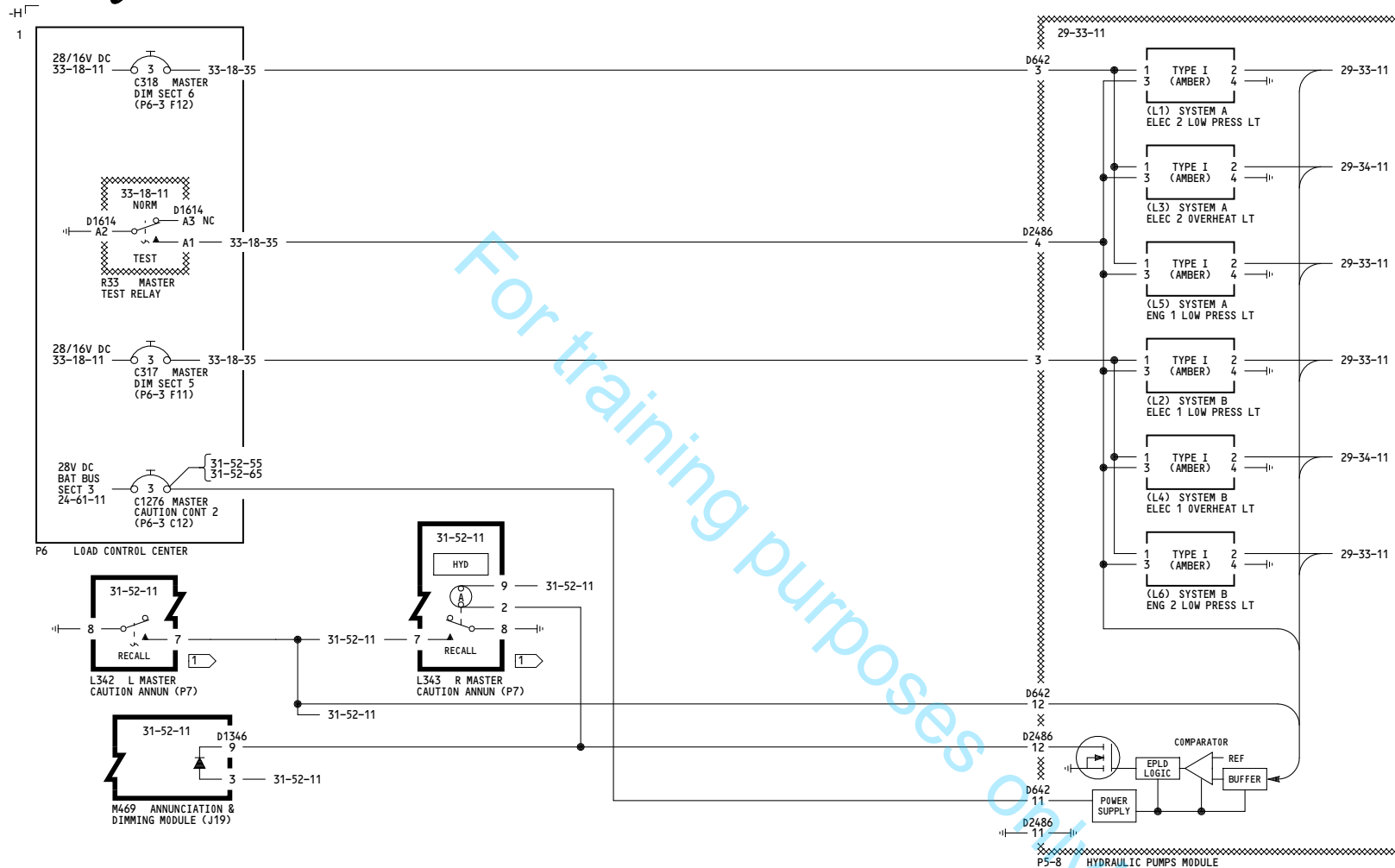
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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

WIRING DIAGRAMS
31-52-21

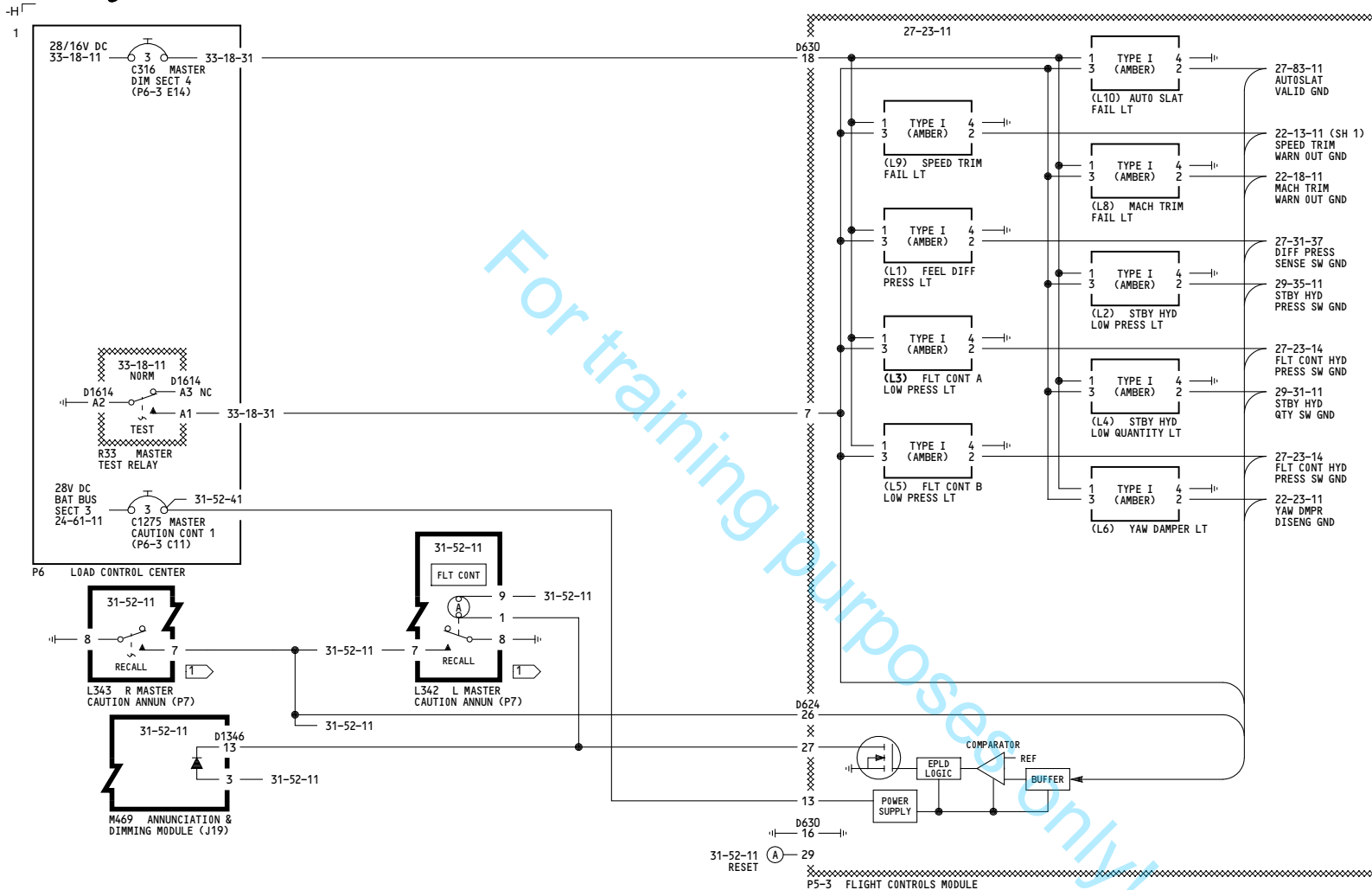
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**MASTER CAUTION SYSTEM-
HYDRAULIC CONTROL**

D280A238



NOTES:

- ① PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

YD001-YD006

**MASTER CAUTION SYSTEM-
FLIGHT CONTROLS**

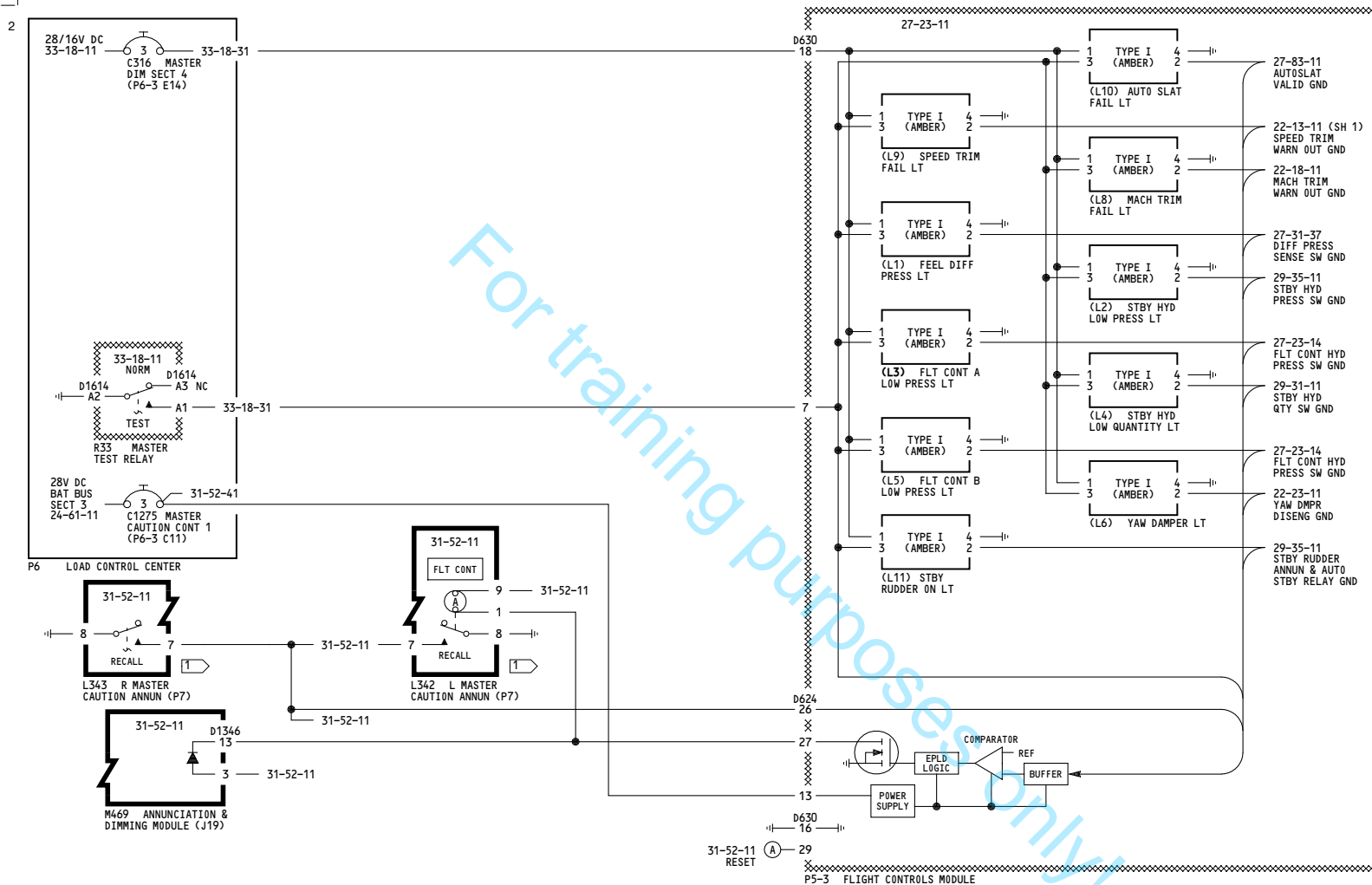
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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

WIRING DIAGRAMS
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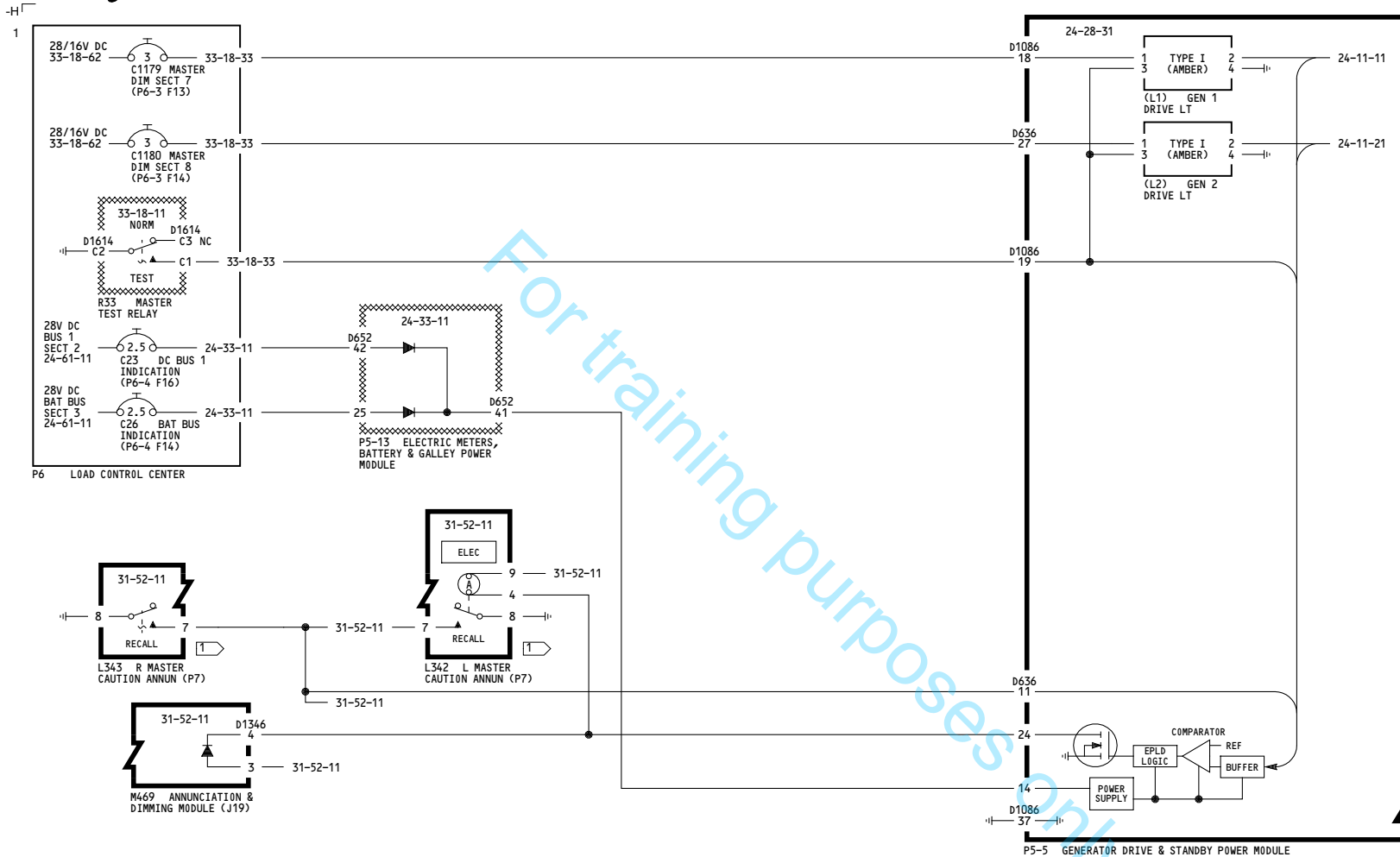
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YD007-YD020

**MASTER CAUTION SYSTEM-
FLIGHT CONTROLS**

D280A238



NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

ALL

**MASTER CAUTION SYSTEM-
ELECTRICAL CONTROL,
GENERATOR**

D280A238

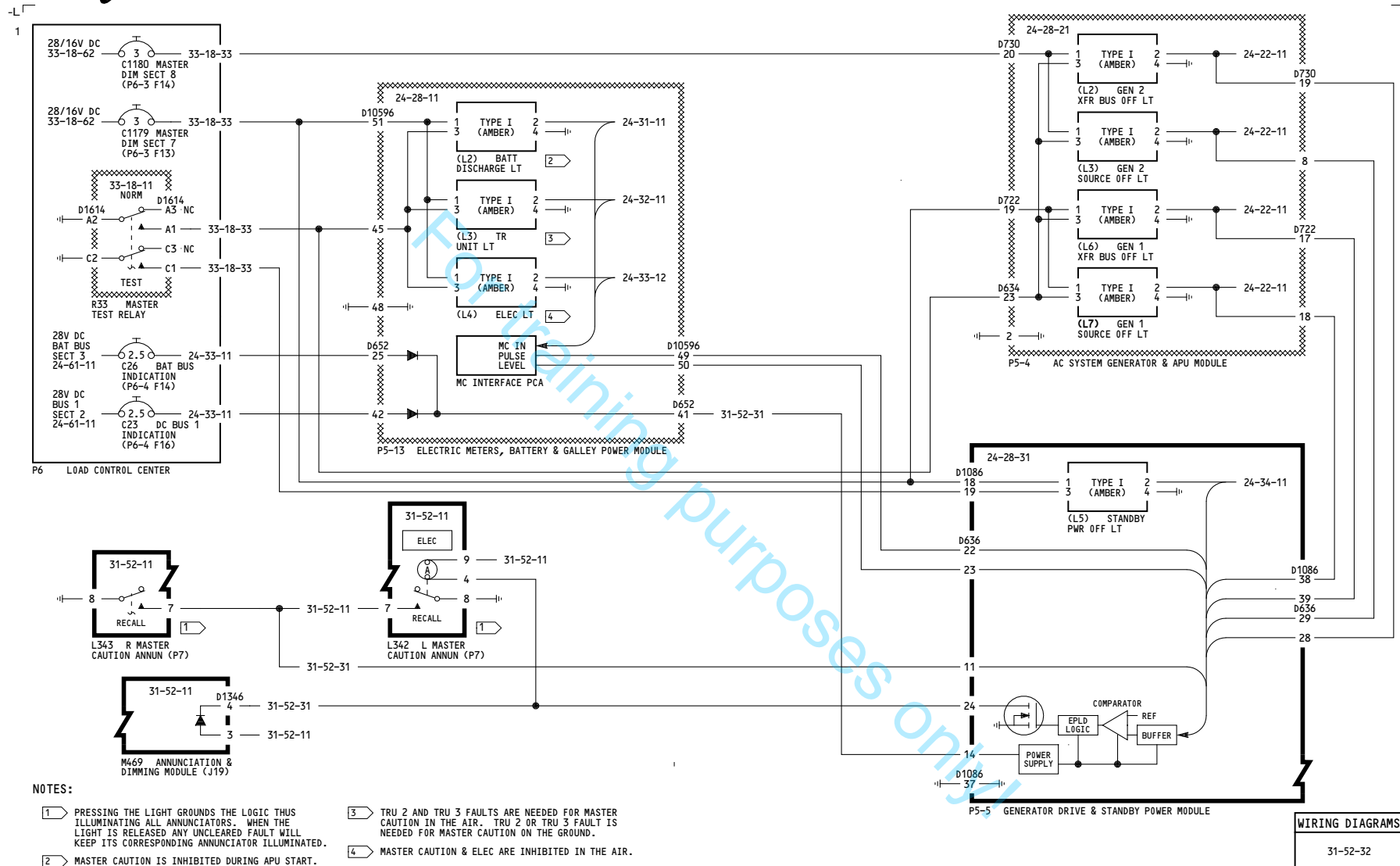
WIRING DIAGRAMS

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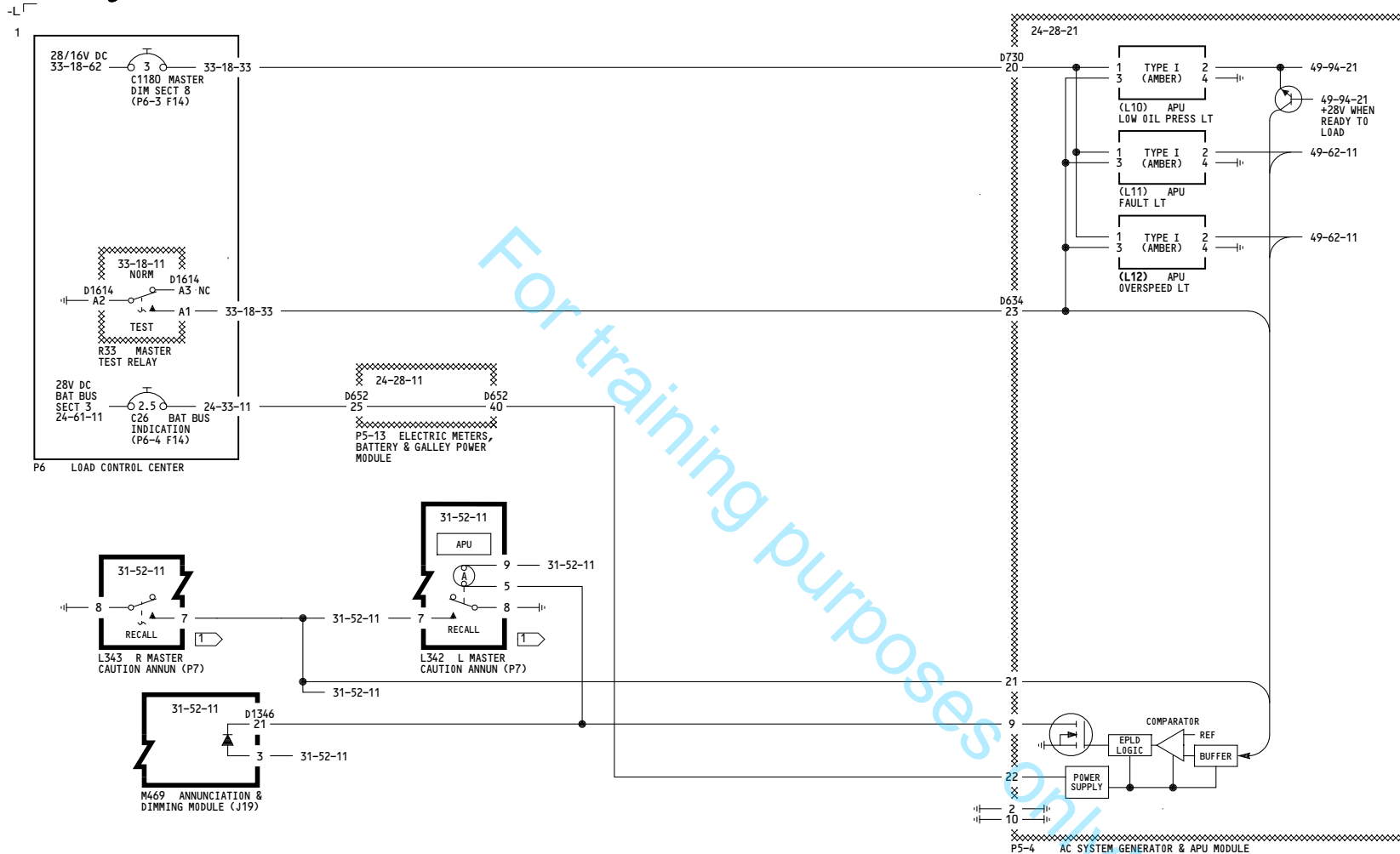
WIRING DIAGRAMS
31-52-32

31-52-32

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ALL	MASTER CAUTION SYSTEM- ELECTRICAL CONTROL, POWER BUS D280A238
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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

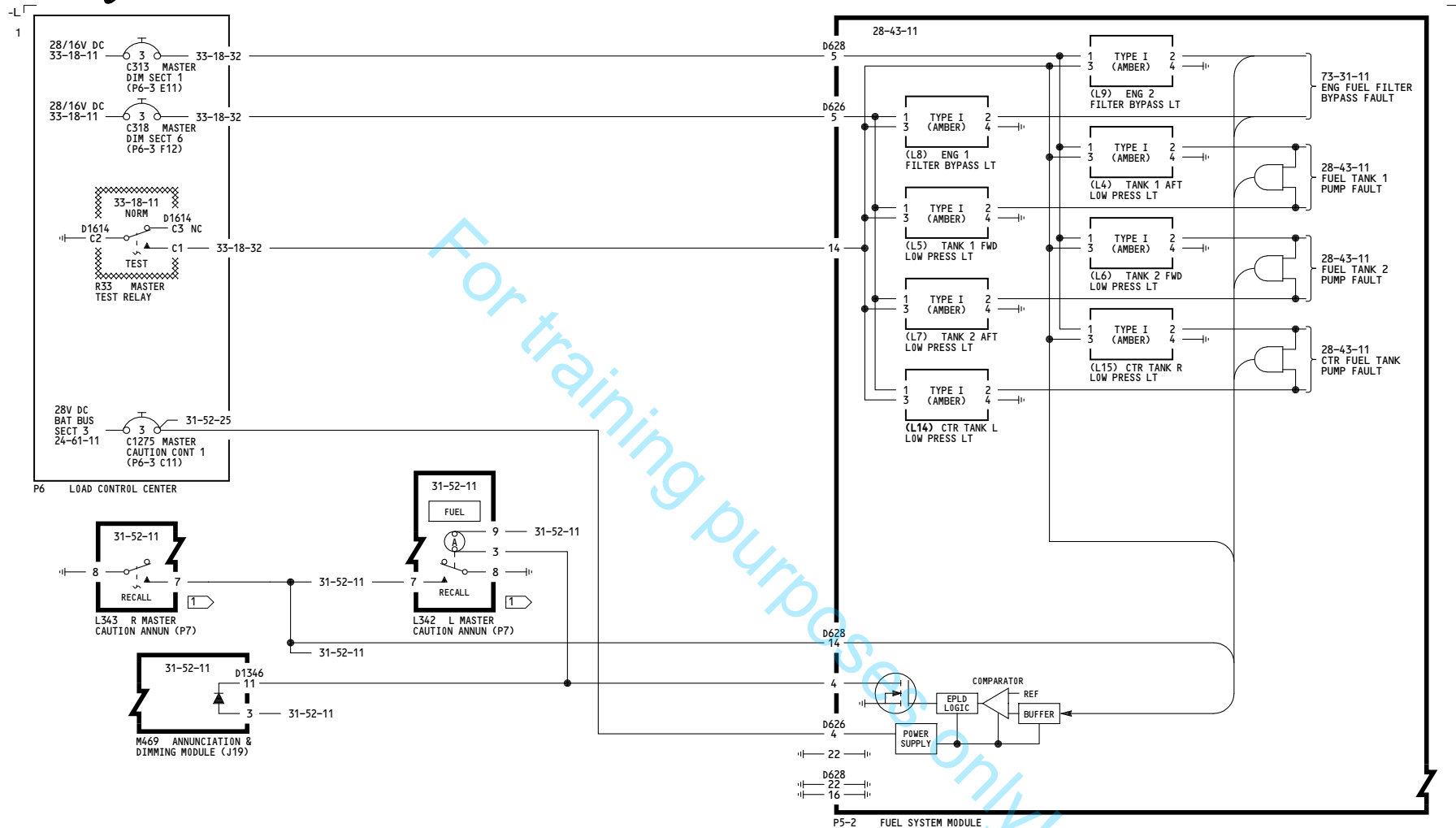
ALL	MASTER CAUTION SYSTEM- APU CONTROL
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31-52-35

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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

WIRING DIAGRAMS
31-52-41

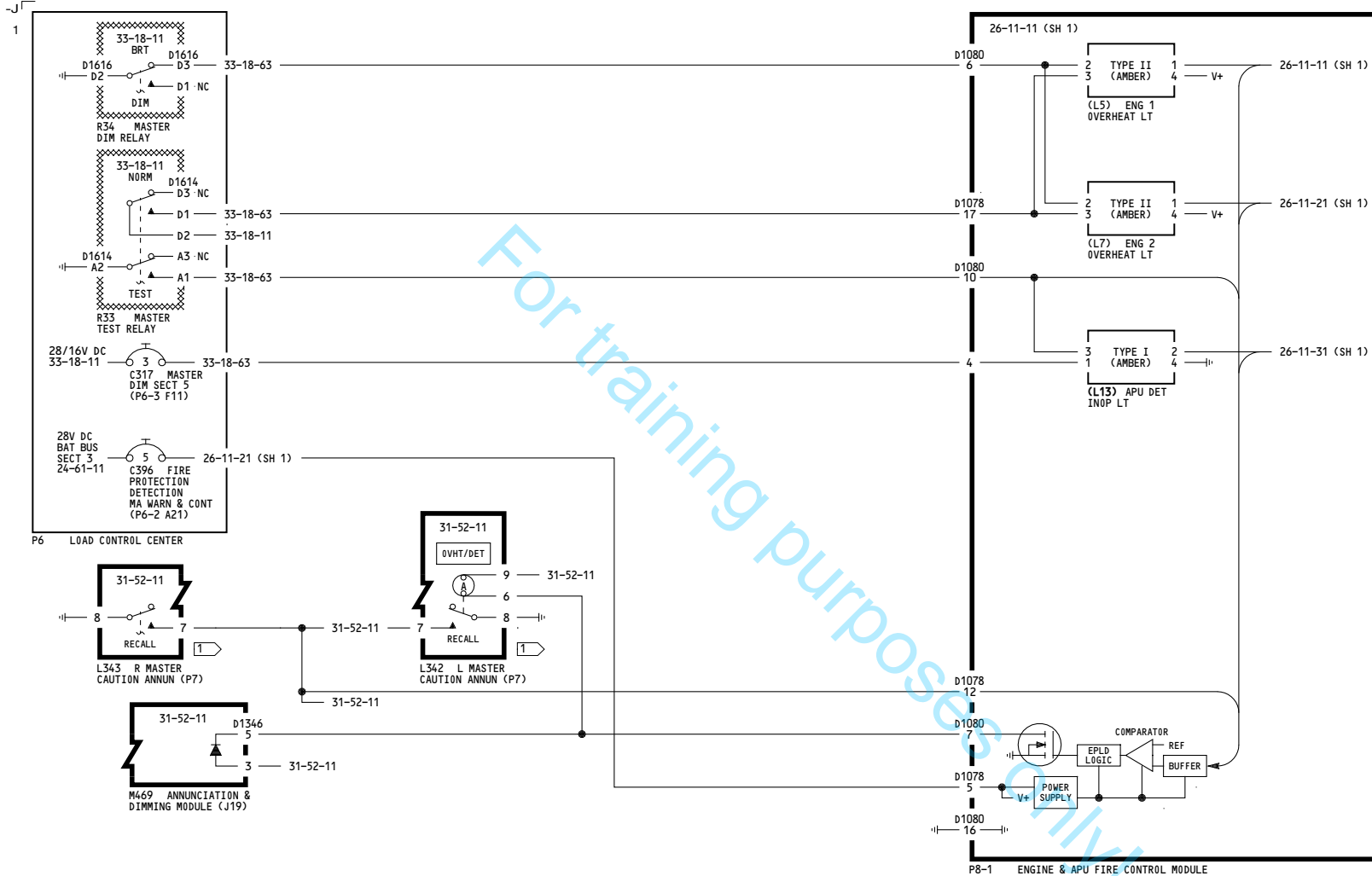
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**MASTER CAUTION SYSTEM-
FUEL CONTROL**

D280A238



NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

ALL

**MASTER CAUTION SYSTEM-
OVERHEAT DETECTION**

D280A238

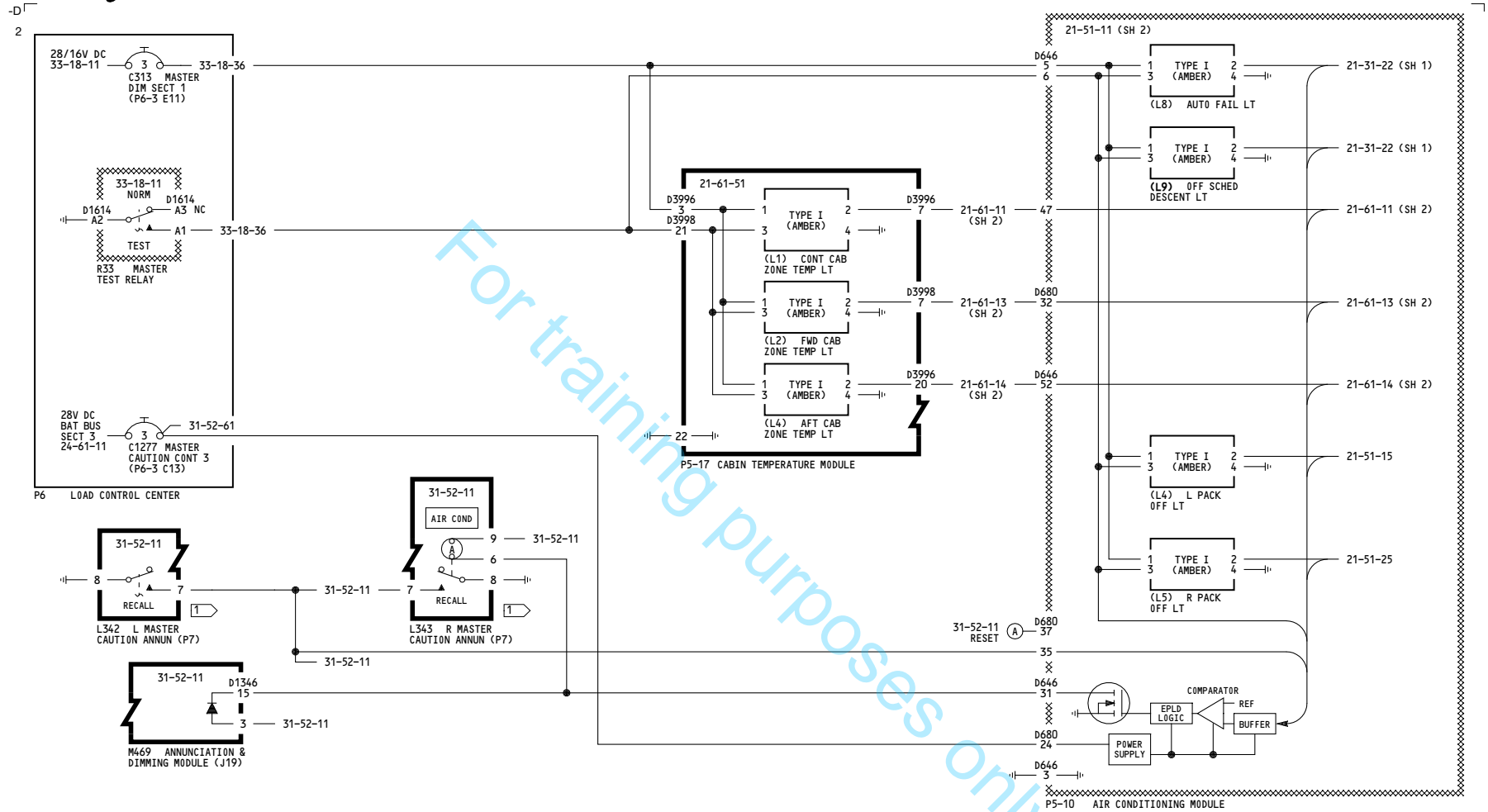
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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

ALL

MASTER CAUTION SYSTEM- AIR CONDITIONING CONTROL, PACK & TEMP

D280A238

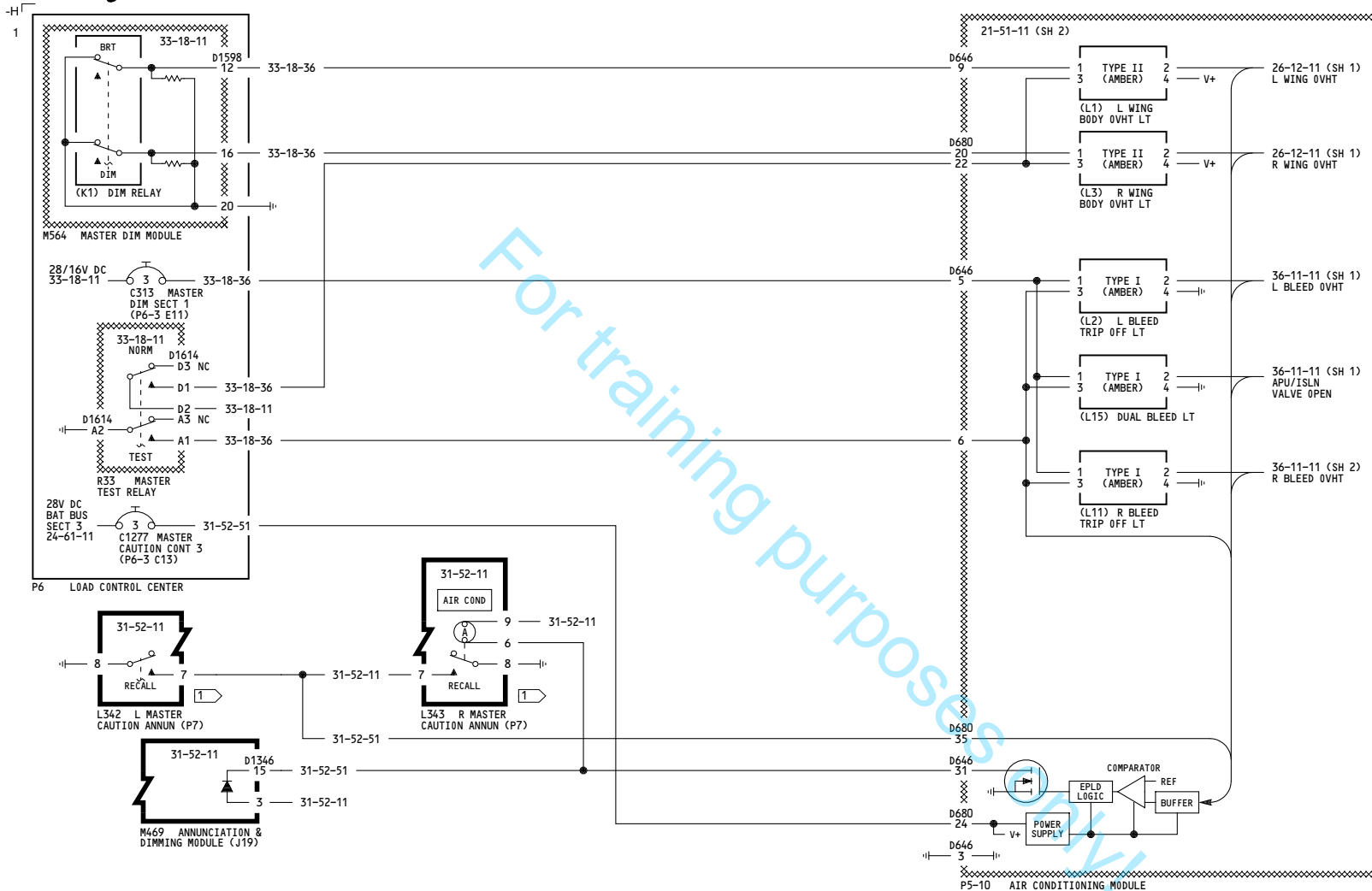
WIRING DIAGRAMS

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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

ALL

**MASTER CAUTION SYSTEM-
AIR CONDITIONING CONTROL,
BLEED AIR**

D280A238

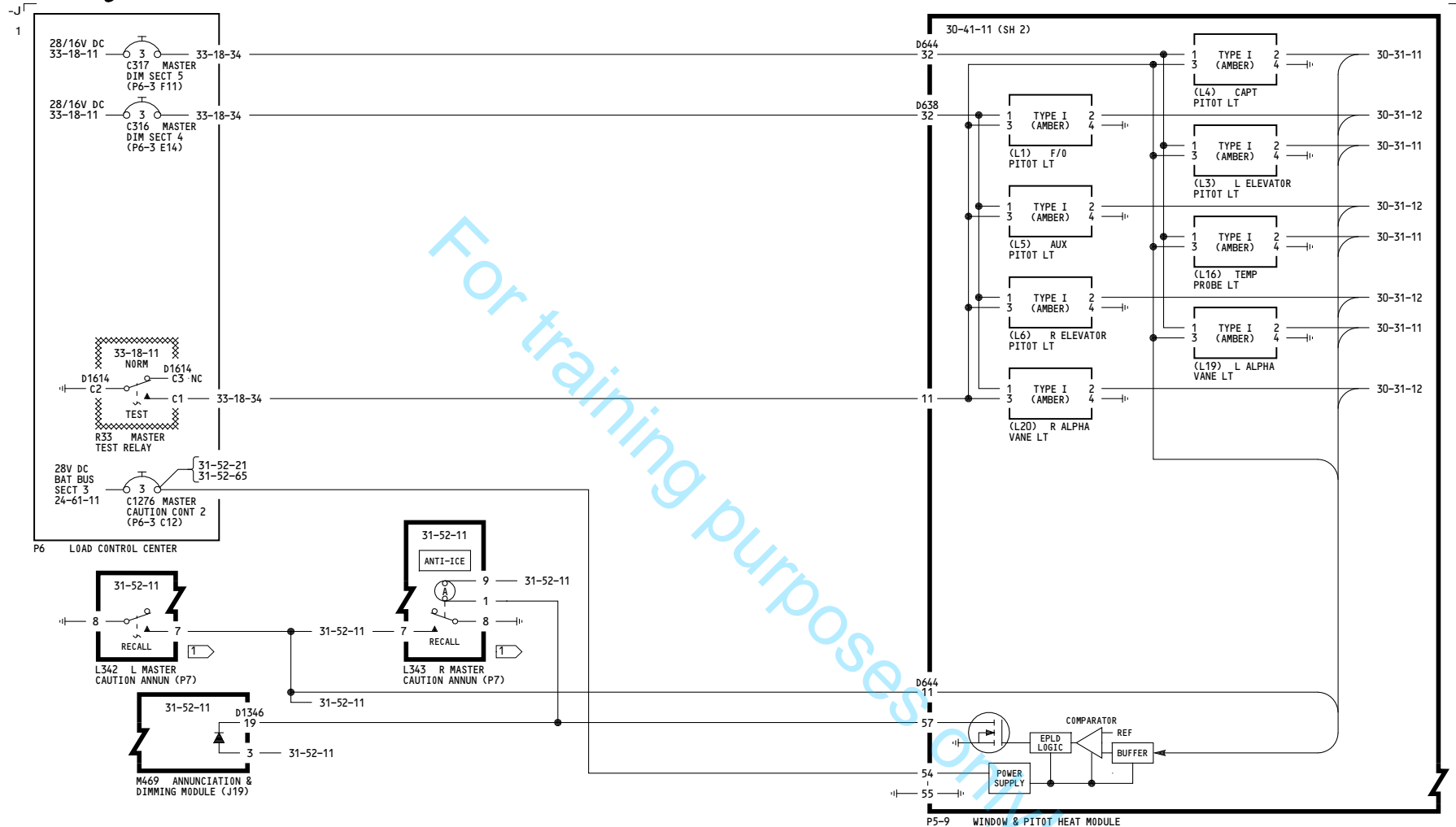
WIRING DIAGRAMS

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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

ALL

**MASTER CAUTION SYSTEM-
ANTI-ICE CONTROL,
PITOT HEAT**

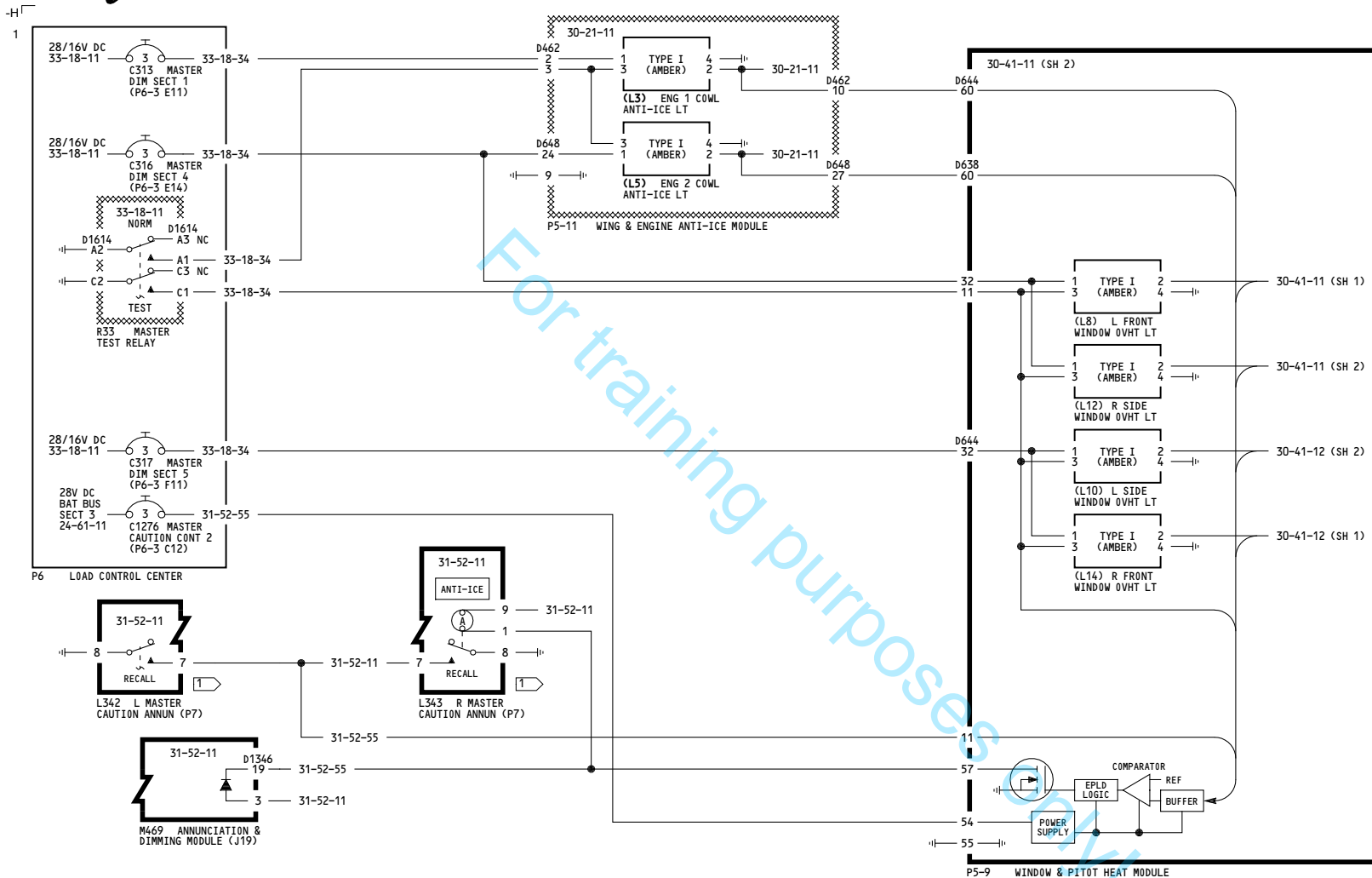
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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

ALL

MASTER CAUTION SYSTEM- ANTI-ICE CONTROL, WINDOW/COWL HEAT

D280A238

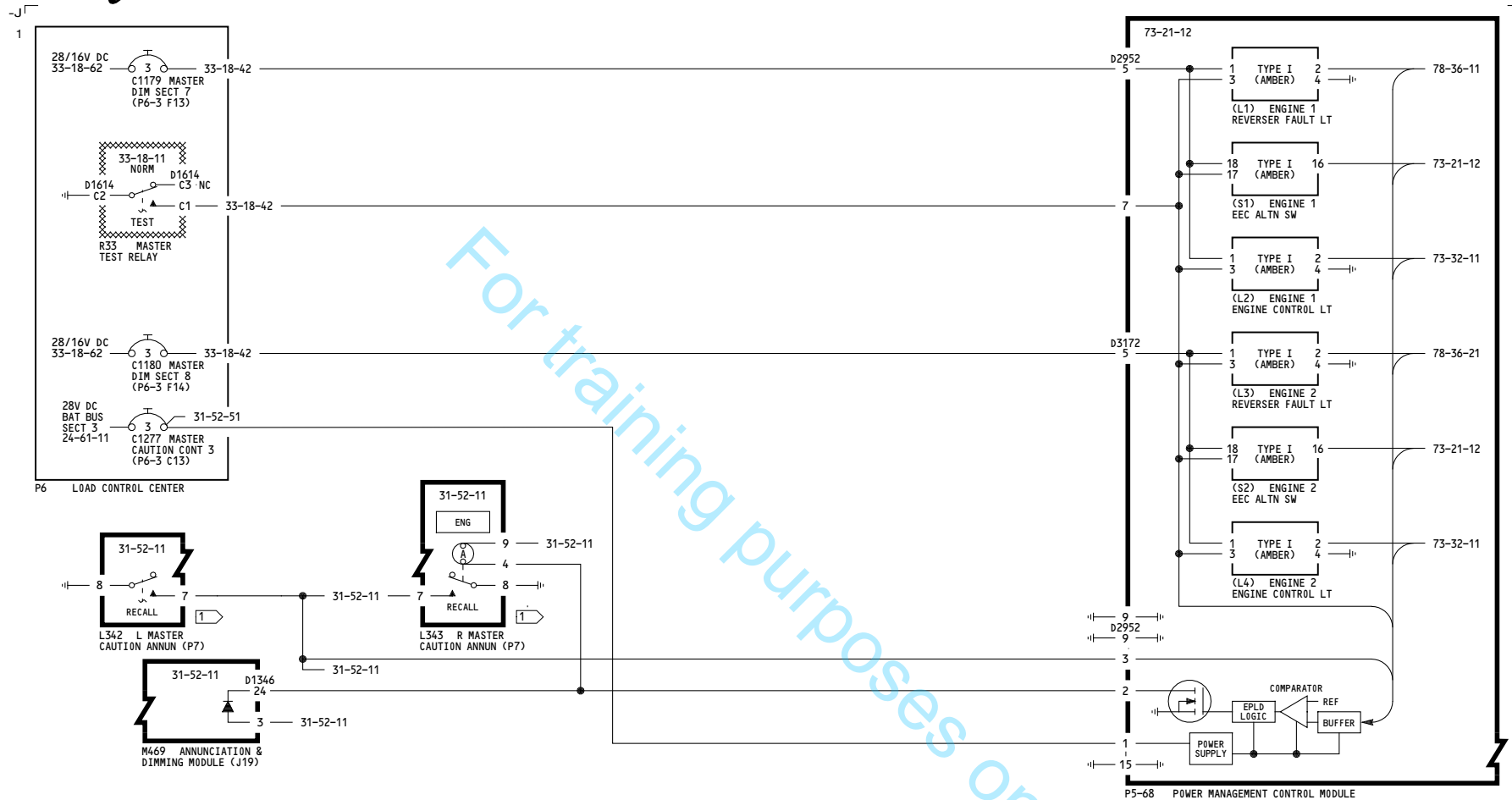
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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

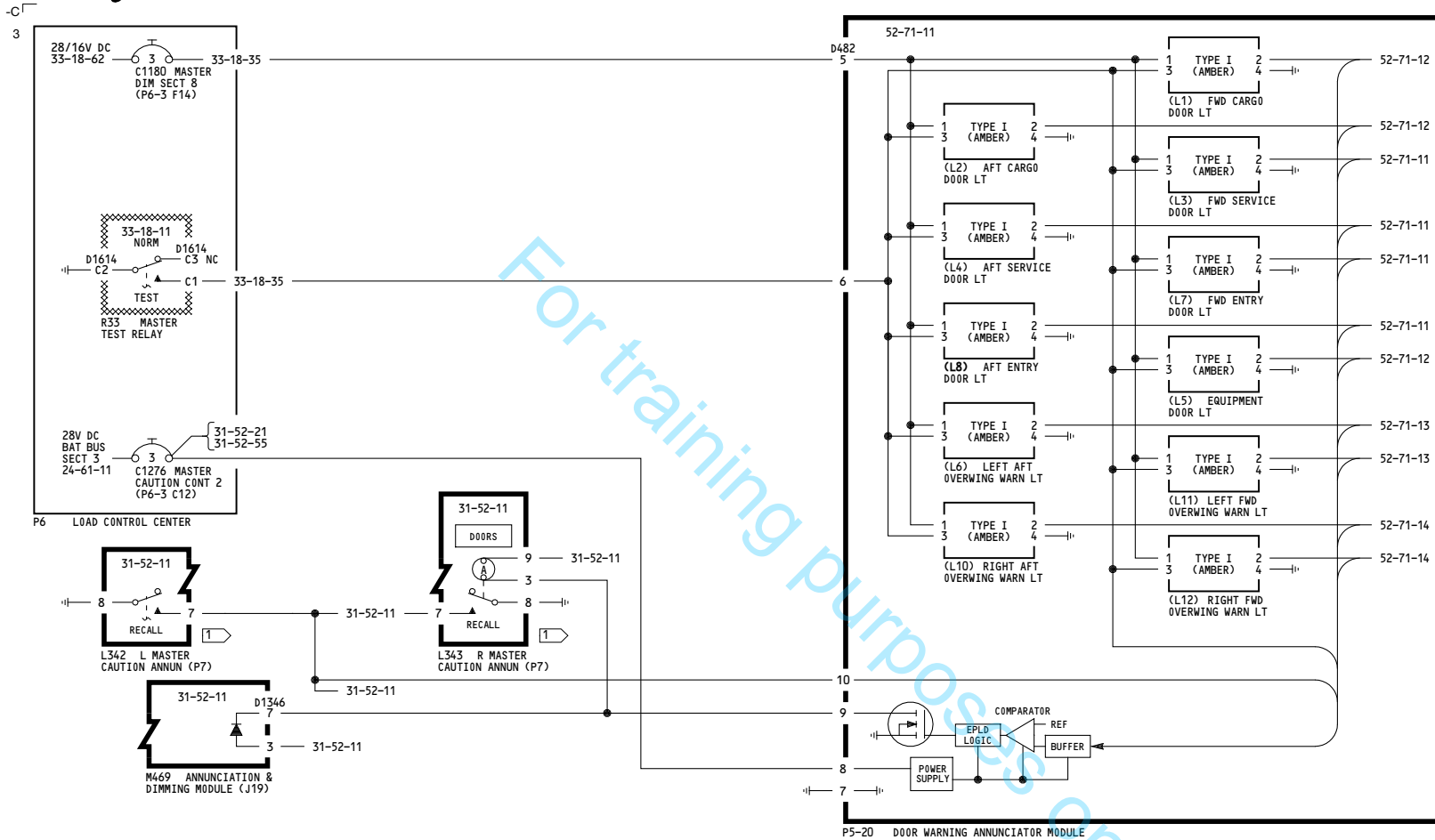
ALL	MASTER CAUTION SYSTEM- ENGINE CONTROL
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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

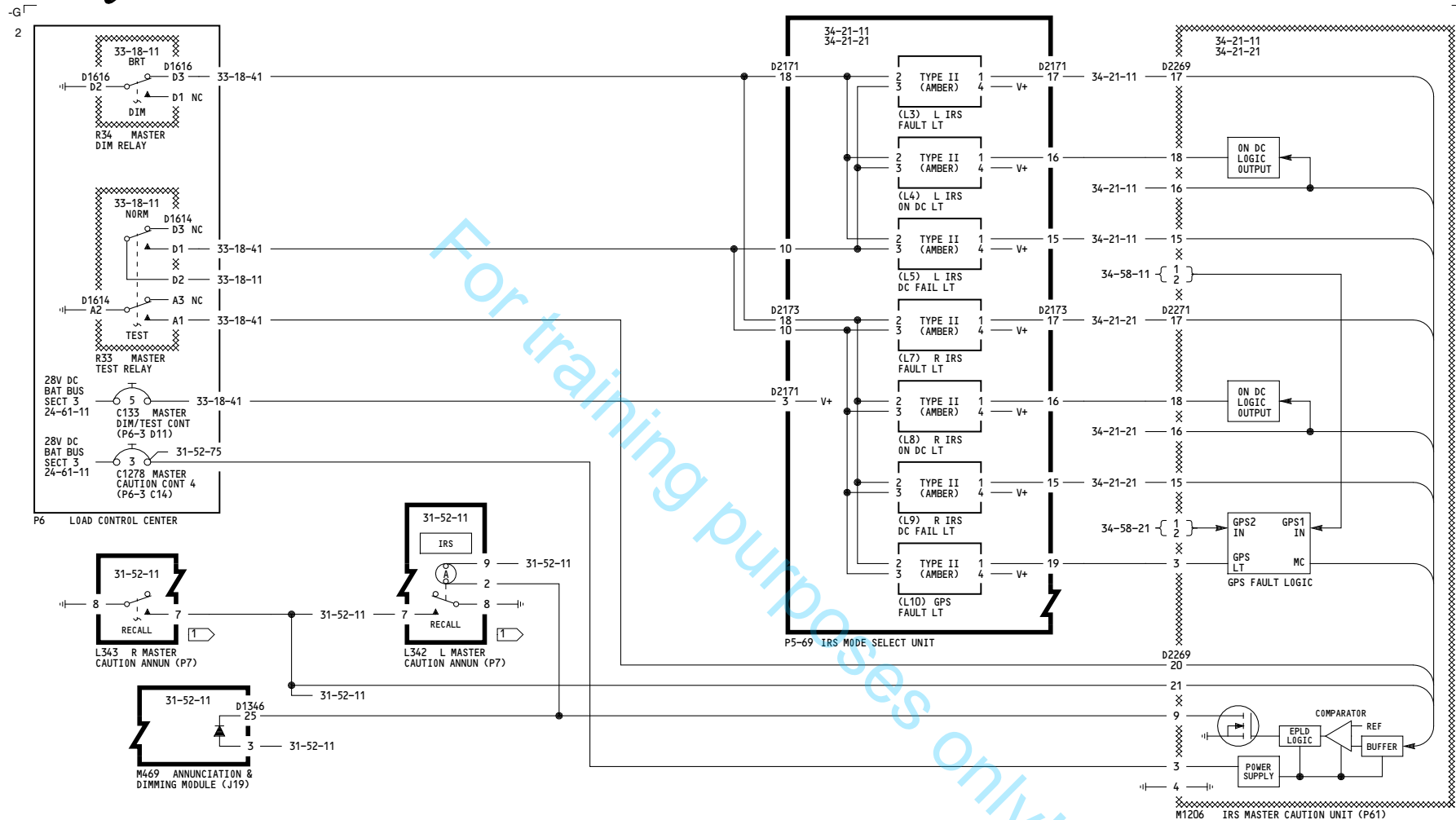
ALL	MASTER CAUTION SYSTEM- DOOR WARNING
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NOTES:

- 1 PRESSING THE LIGHT GROUNDS THE LOGIC THUS ILLUMINATING ALL ANNUNCIATORS. WHEN THE LIGHT IS RELEASED ANY UNCLEARED FAULT WILL KEEP ITS CORRESPONDING ANNUNCIATOR ILLUMINATED.

YD001-YD007

**MASTER CAUTION SYSTEM-
IRS CONTROL**

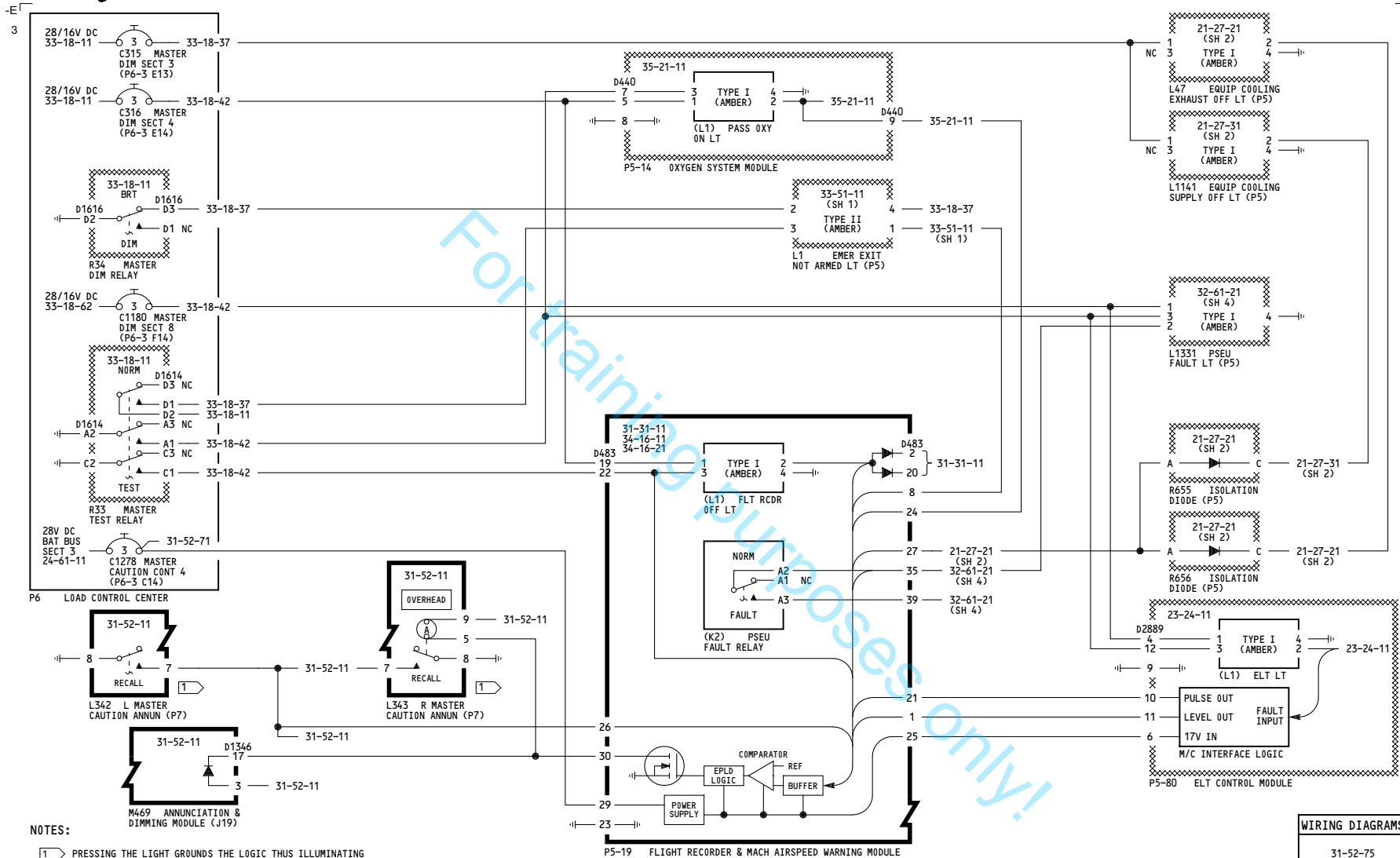
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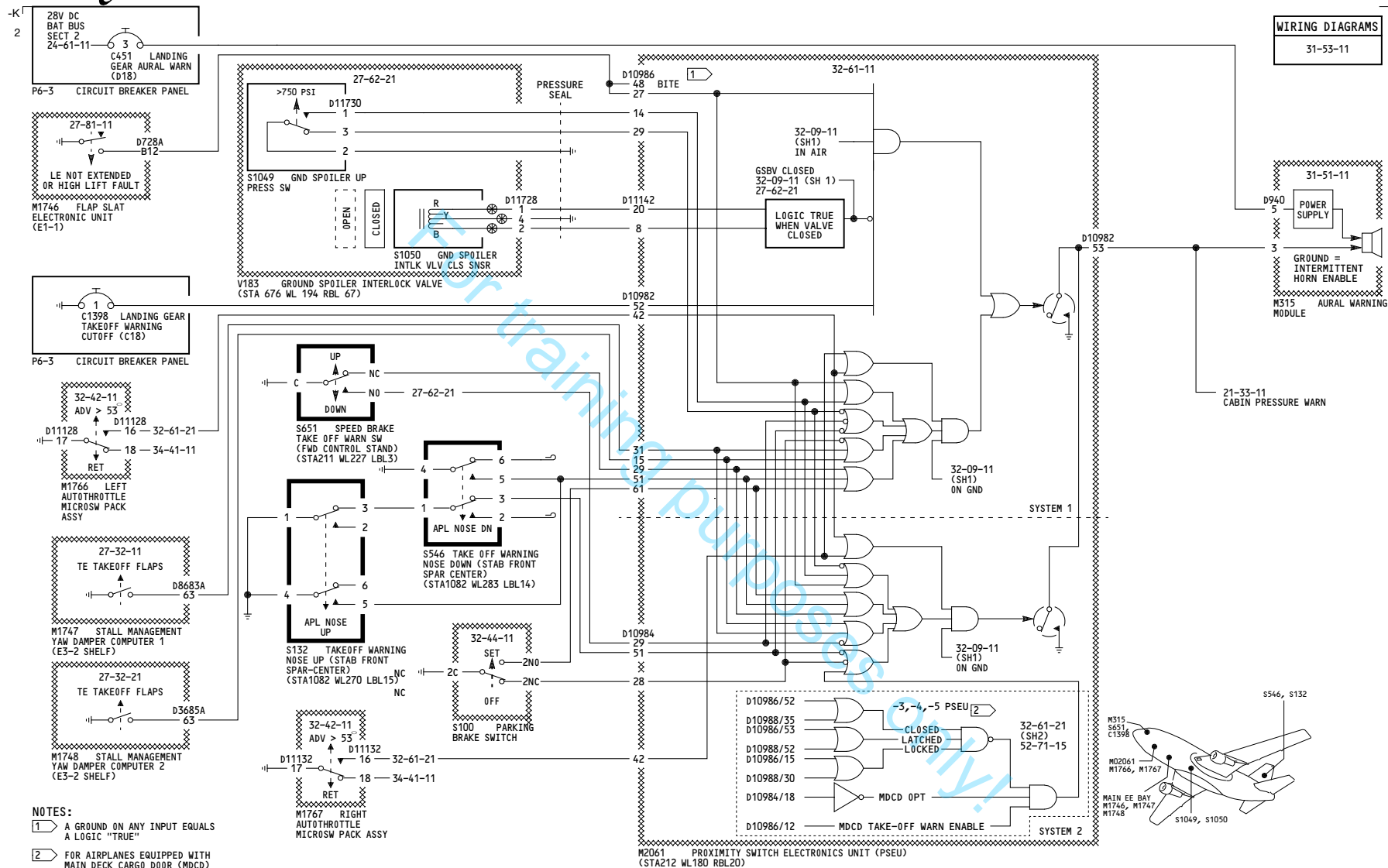
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ALL	MASTER CAUTION SYSTEM- OVERHEAD CONTROL D280A238
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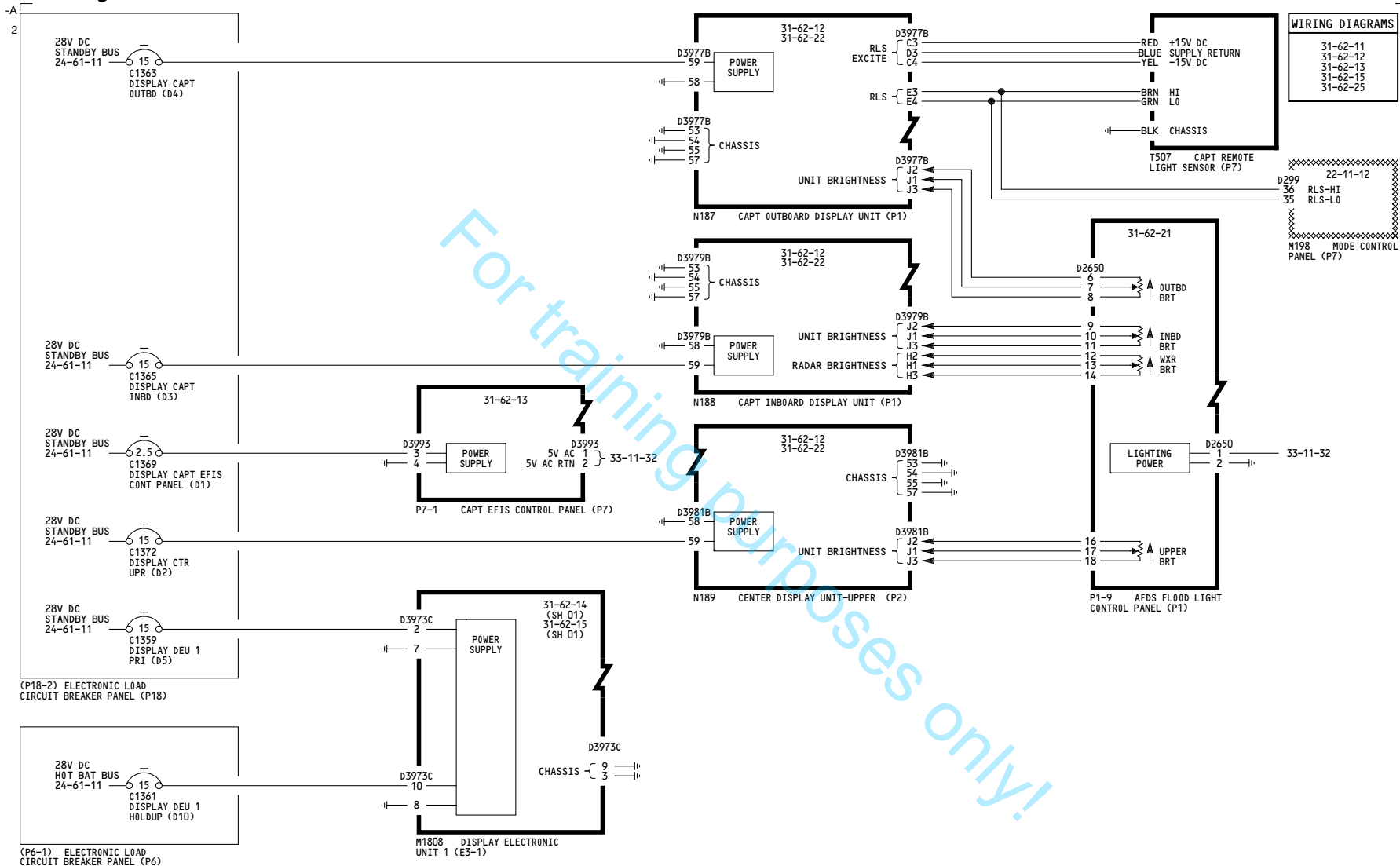
**AURAL WARNING -
TAKEOFF WARNING**

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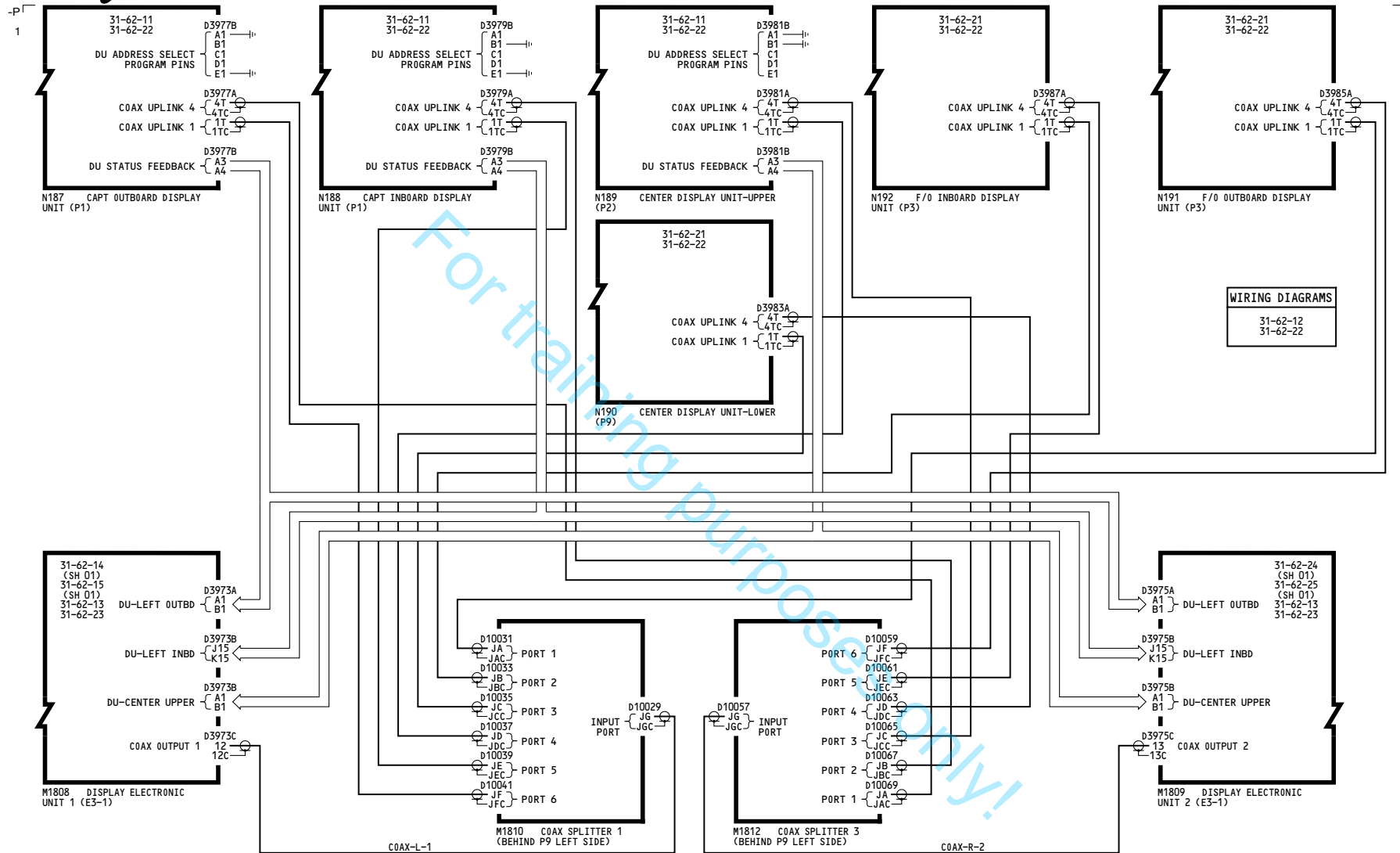
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**CDS - VIDEO COAX
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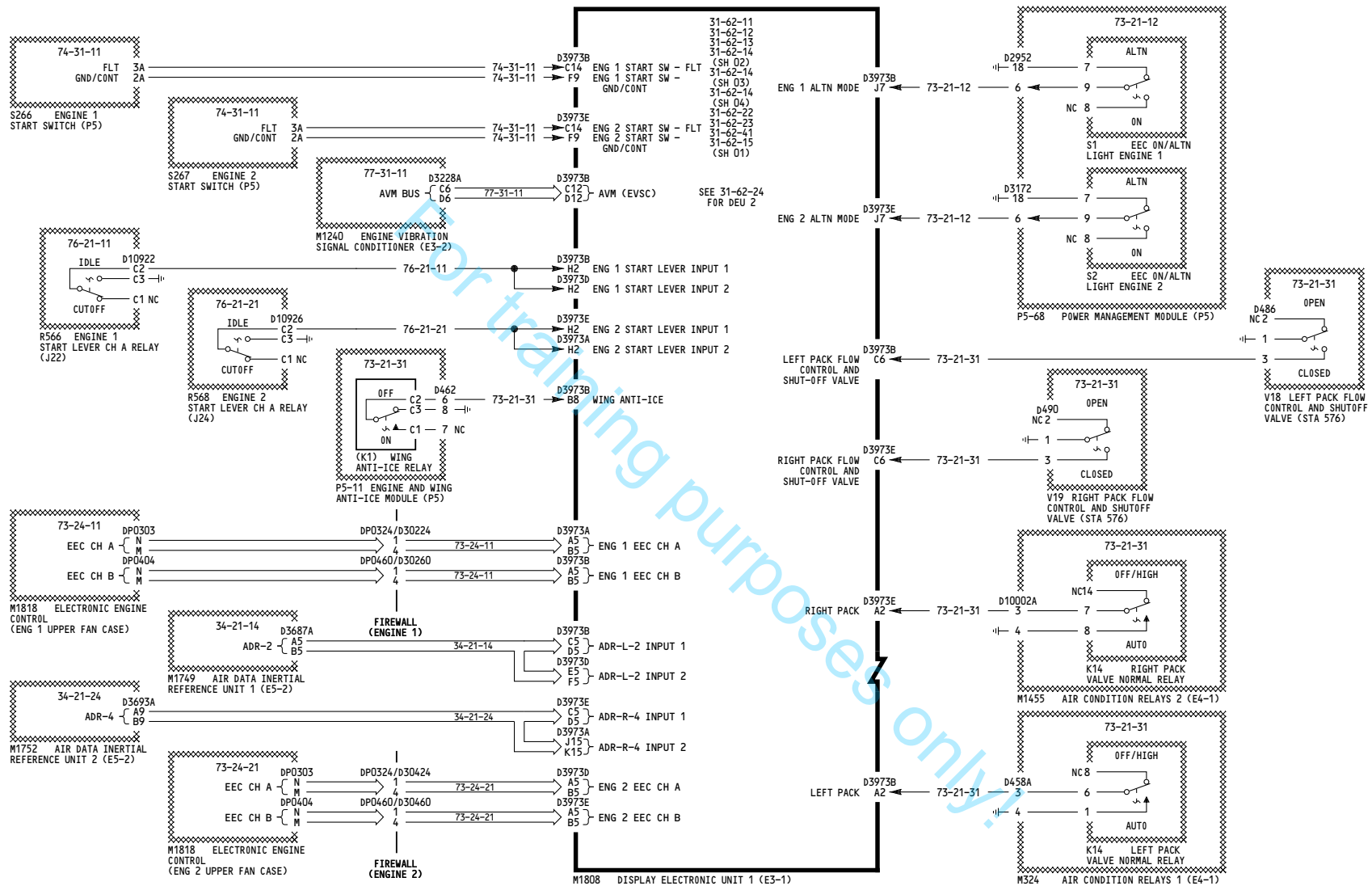
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YD001-YD007

CDS - DEU 1 ENGINE HYDRAULIC, APU AND FUEL INTERFACES

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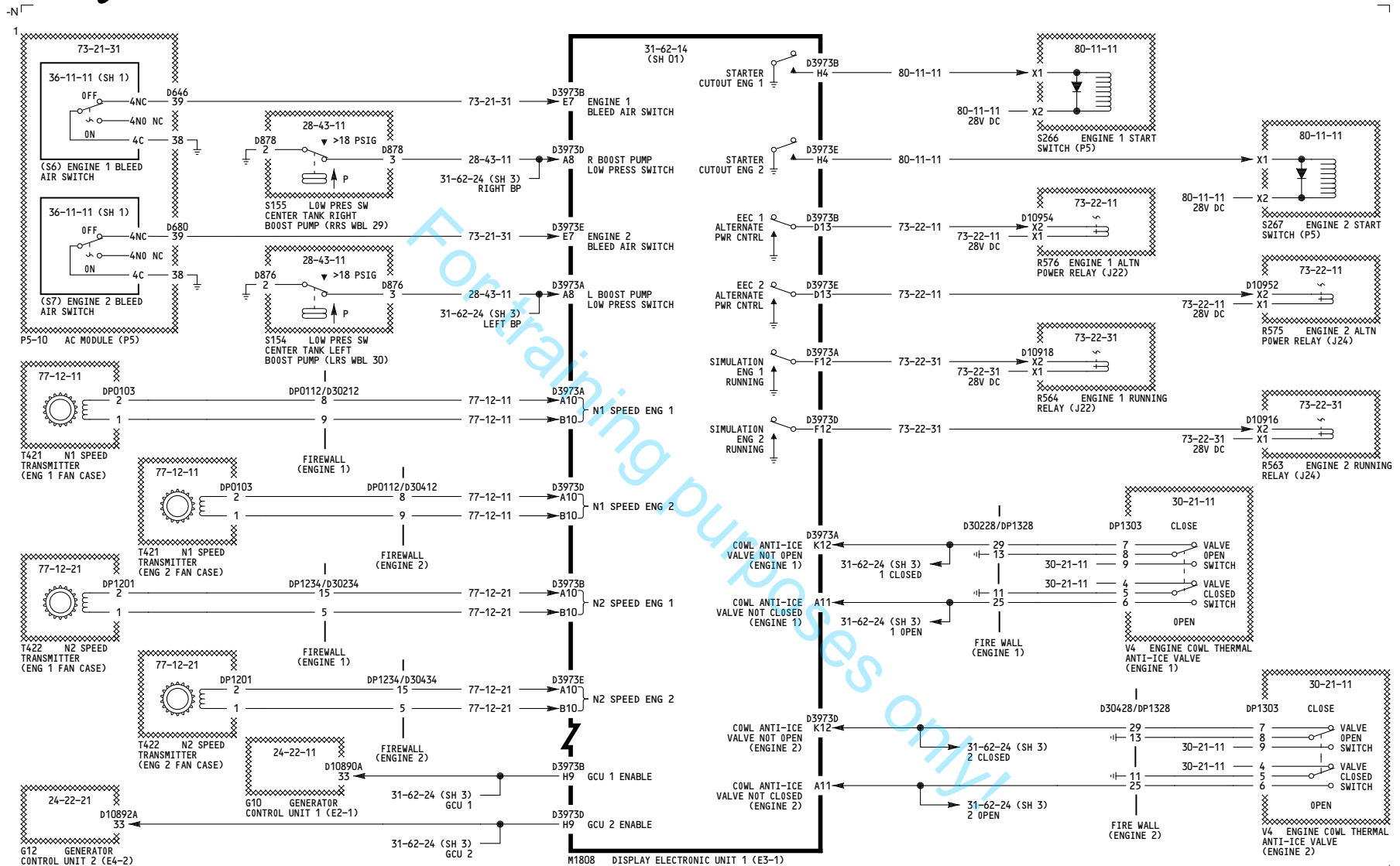
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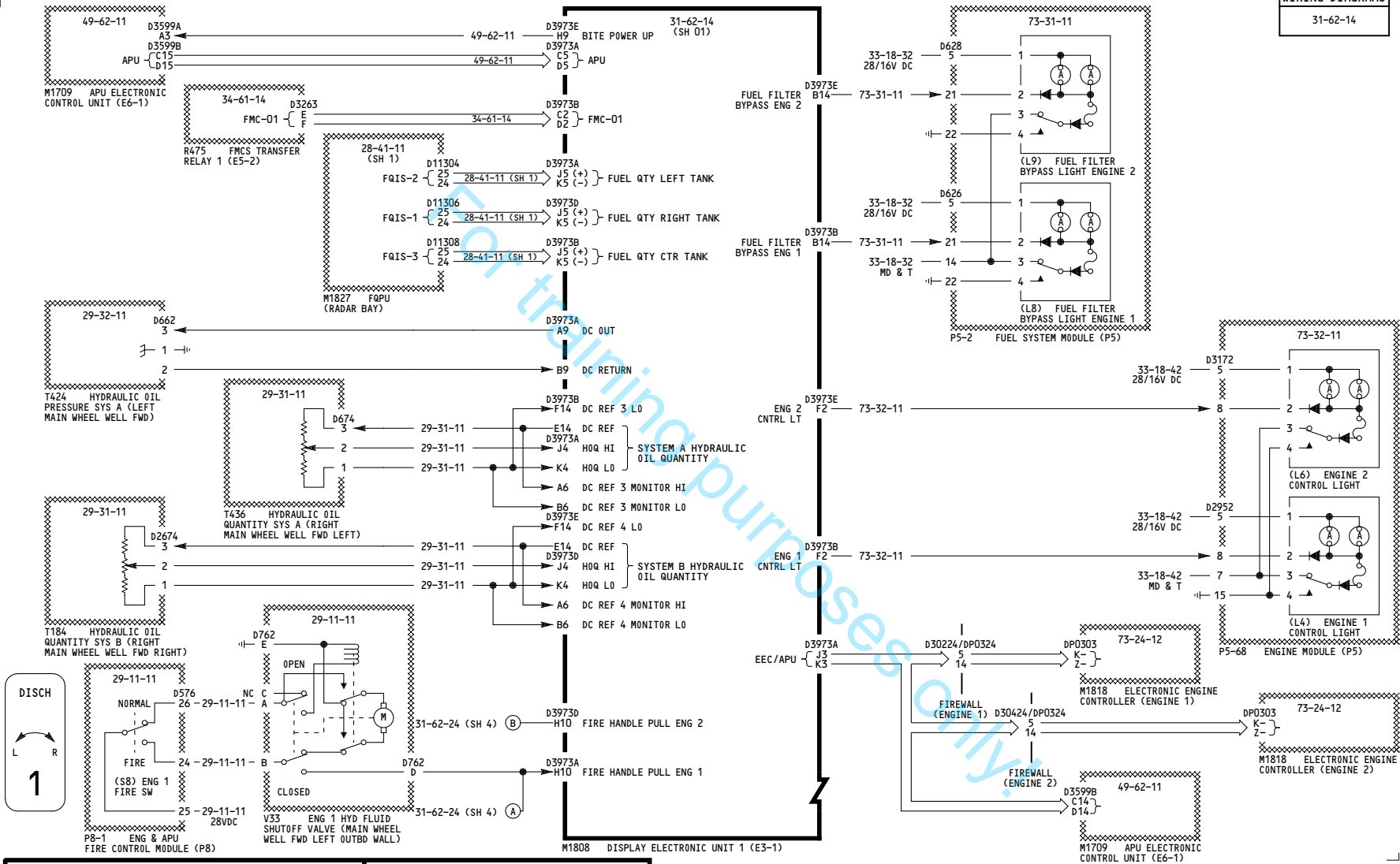
**CDS - DEU 1 ENGINE
HYDRAULIC, APU AND FUEL
INTERFACES**

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YD001-YD007

CDS - DEU 1 ENGINE HYDRAULIC, APU AND FUEL INTERFACES

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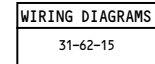
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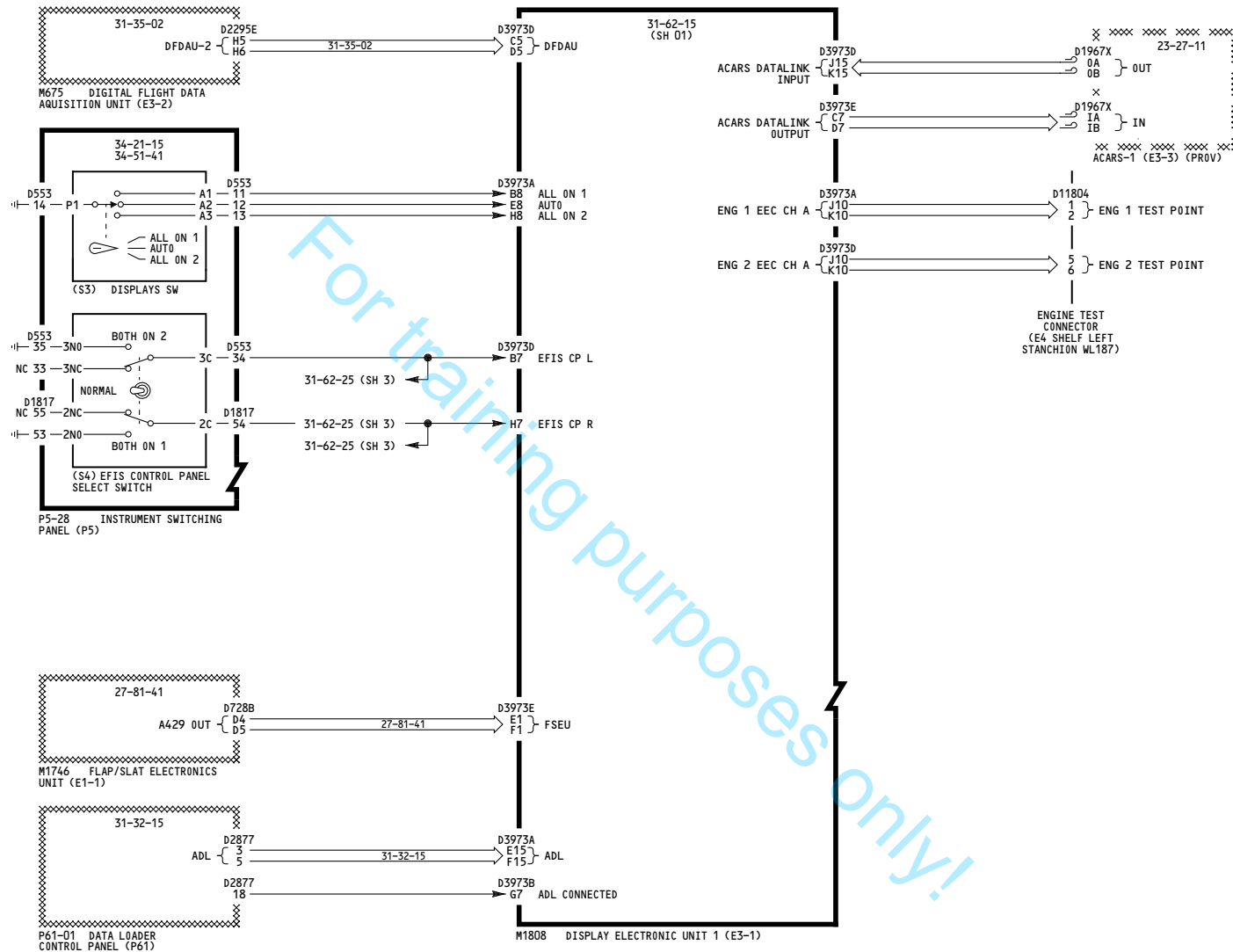
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WIRING DIAGRAMS
31-62-15



YD001-YD005

CDS - DEU 1 AVIONICS
INTERFACES

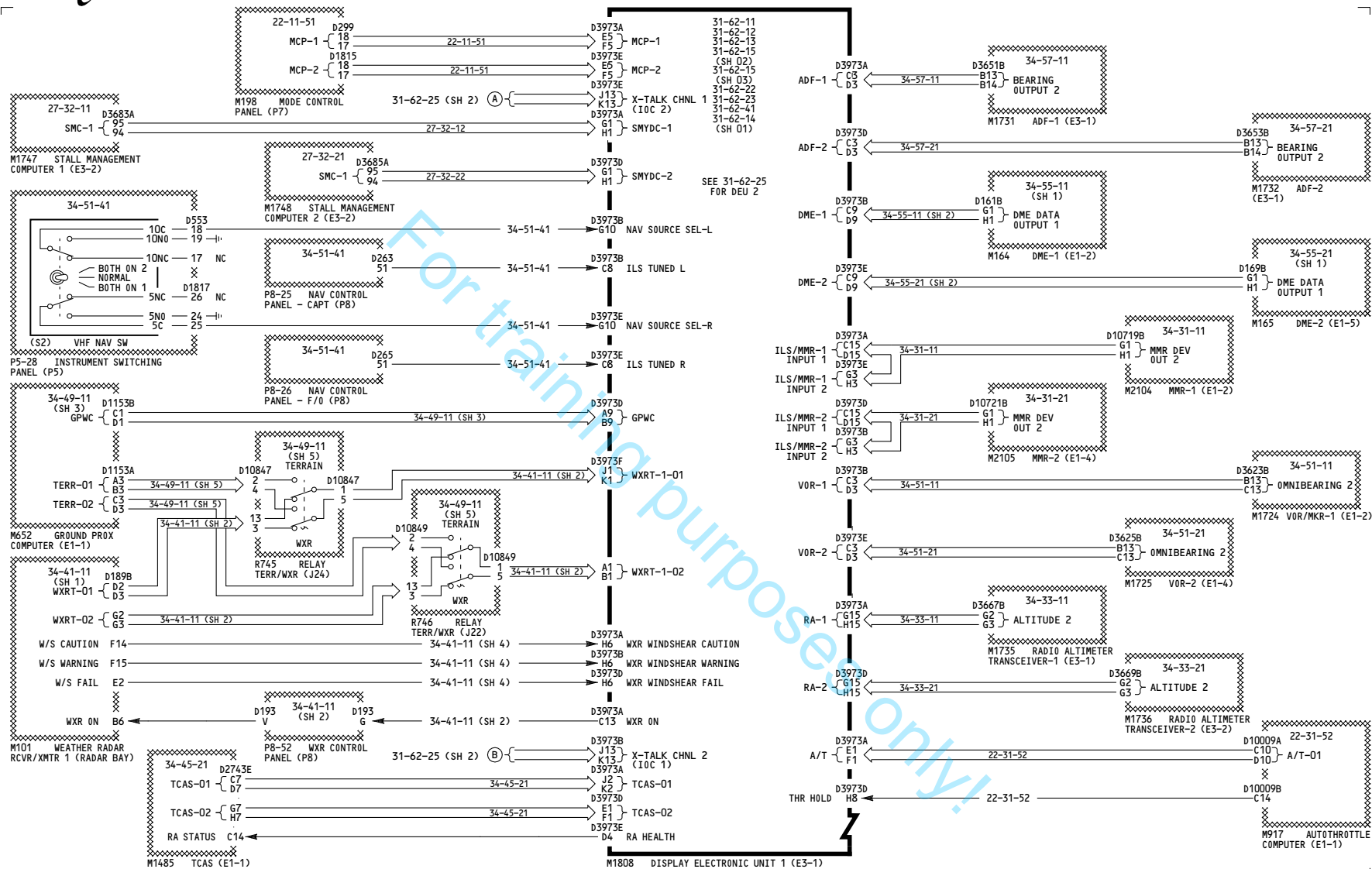
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YD001-YD005

CDS - DEU 1 AVIONICS INTERFACES

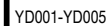
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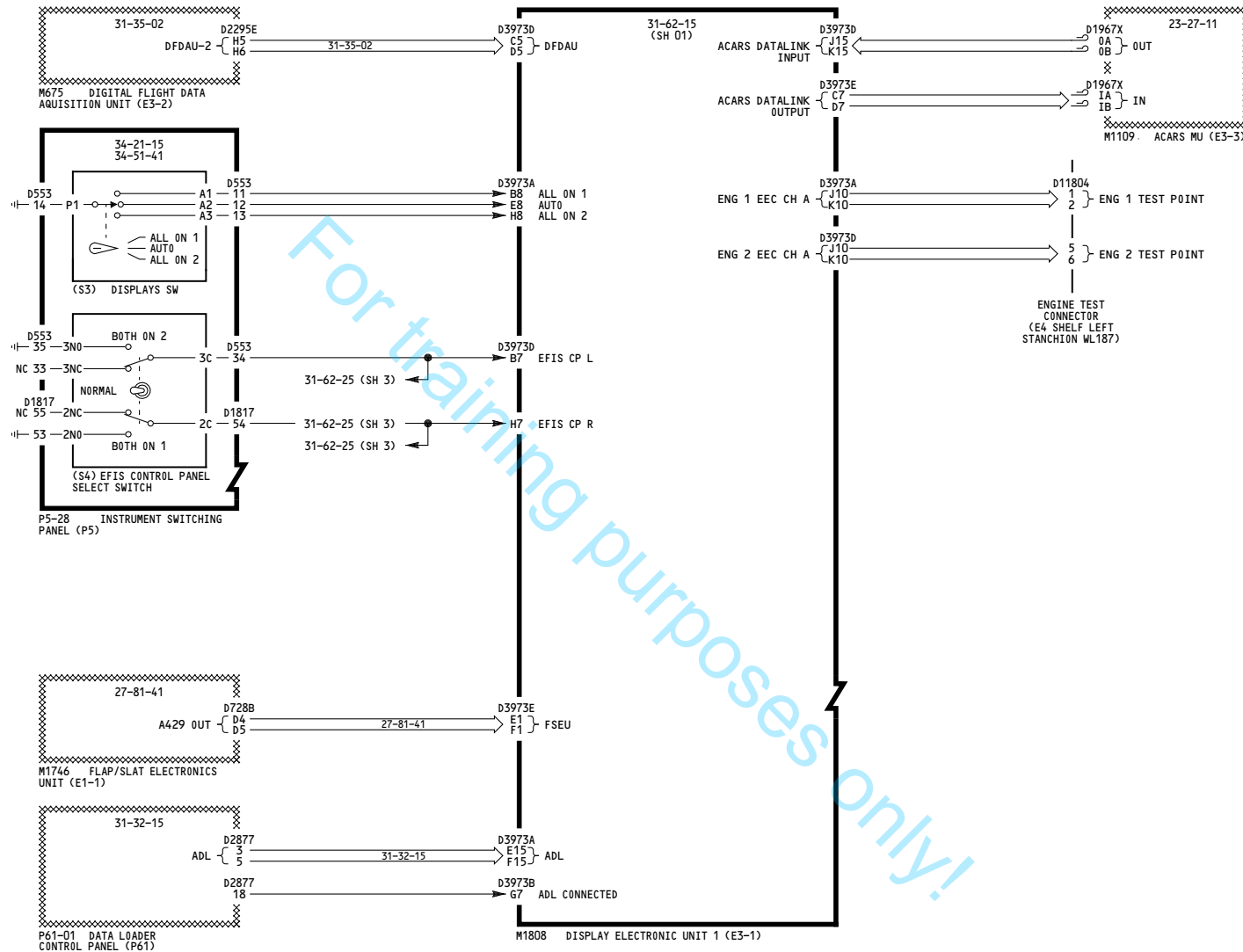
WIRING DIAGRAMS



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YD001-YD005

CDS - DEU 1 AVIONICS INTERFACES

Incorporates
23-1218

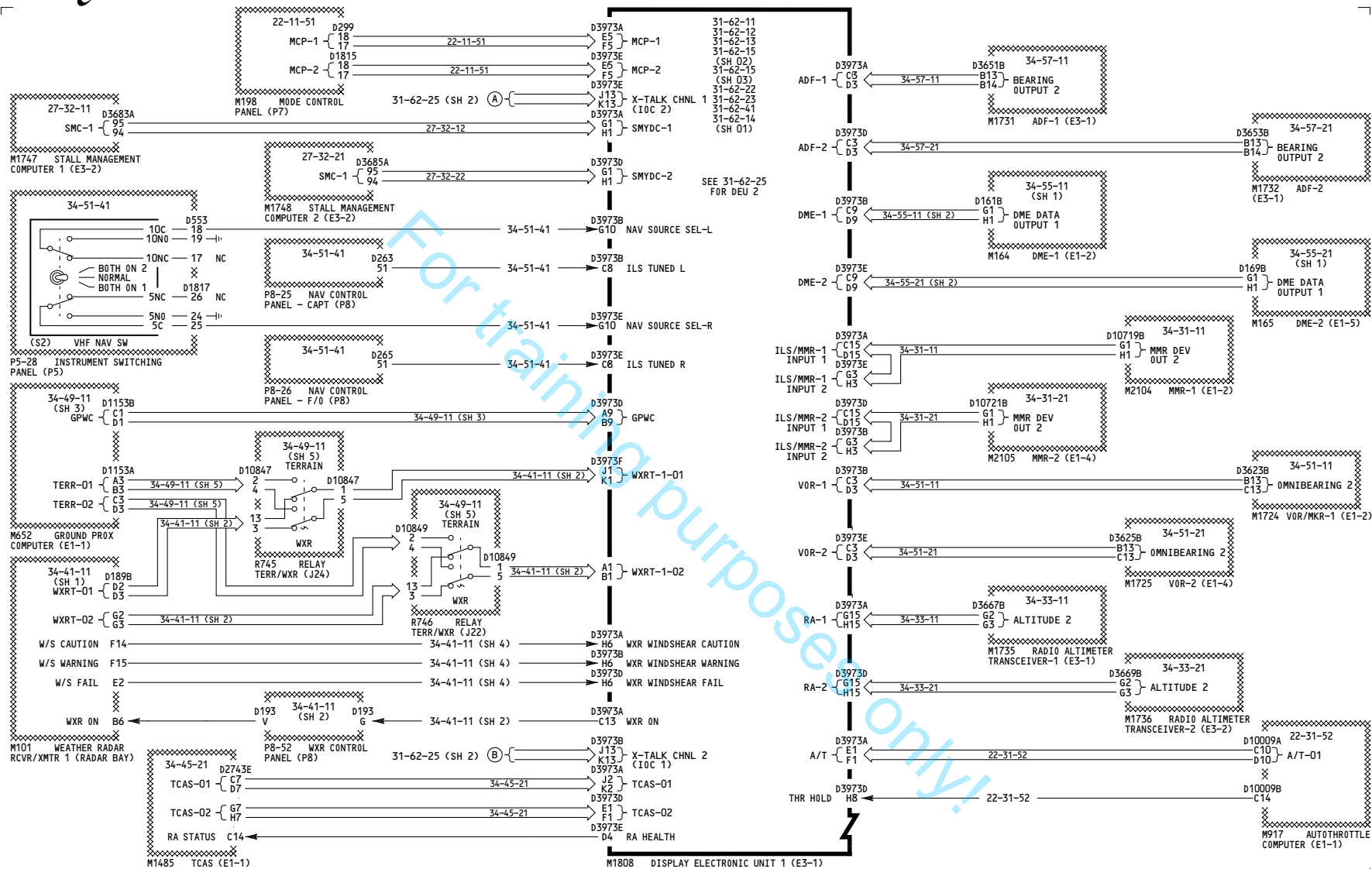
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YD006

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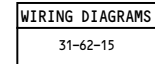
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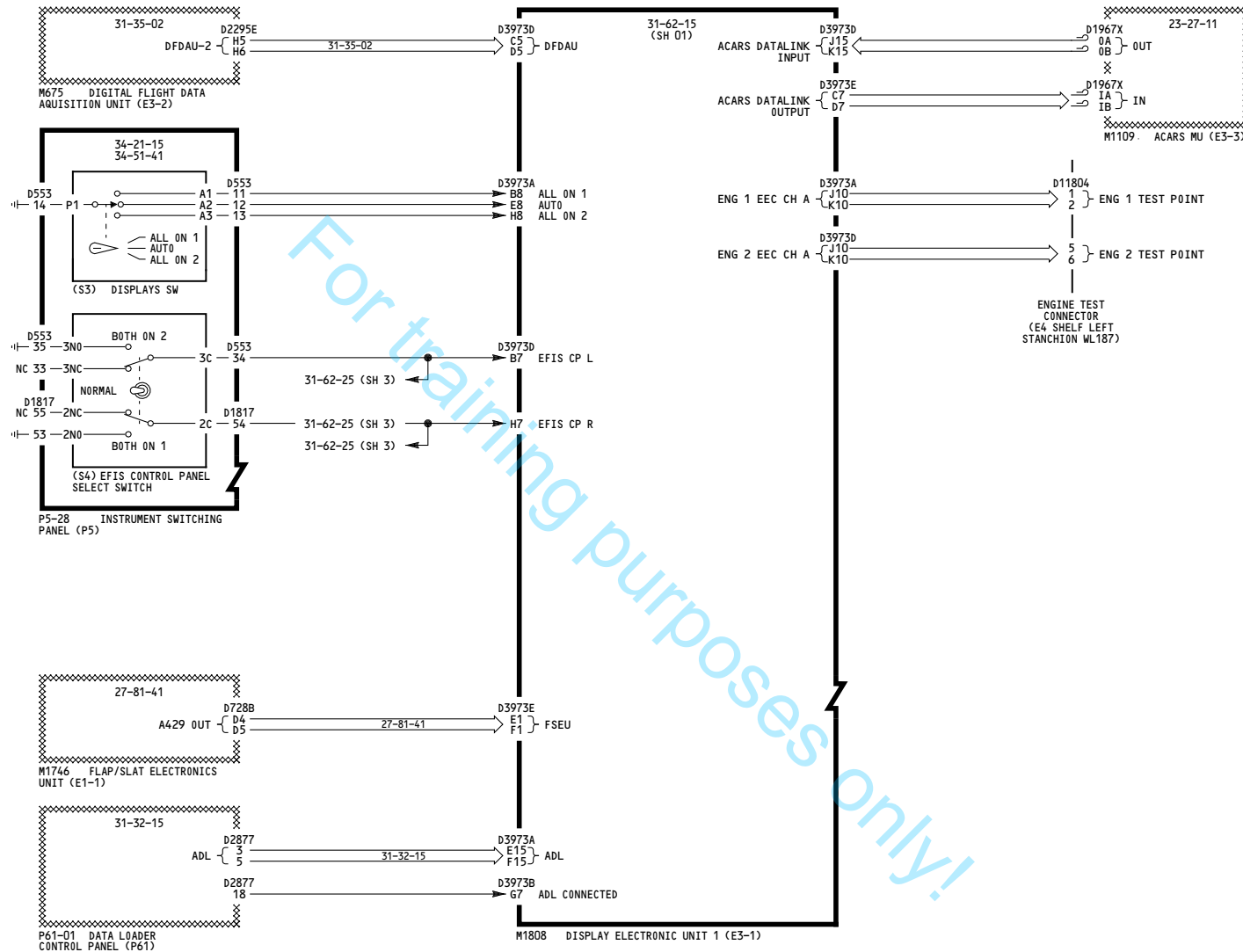


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YD006

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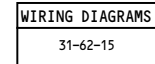
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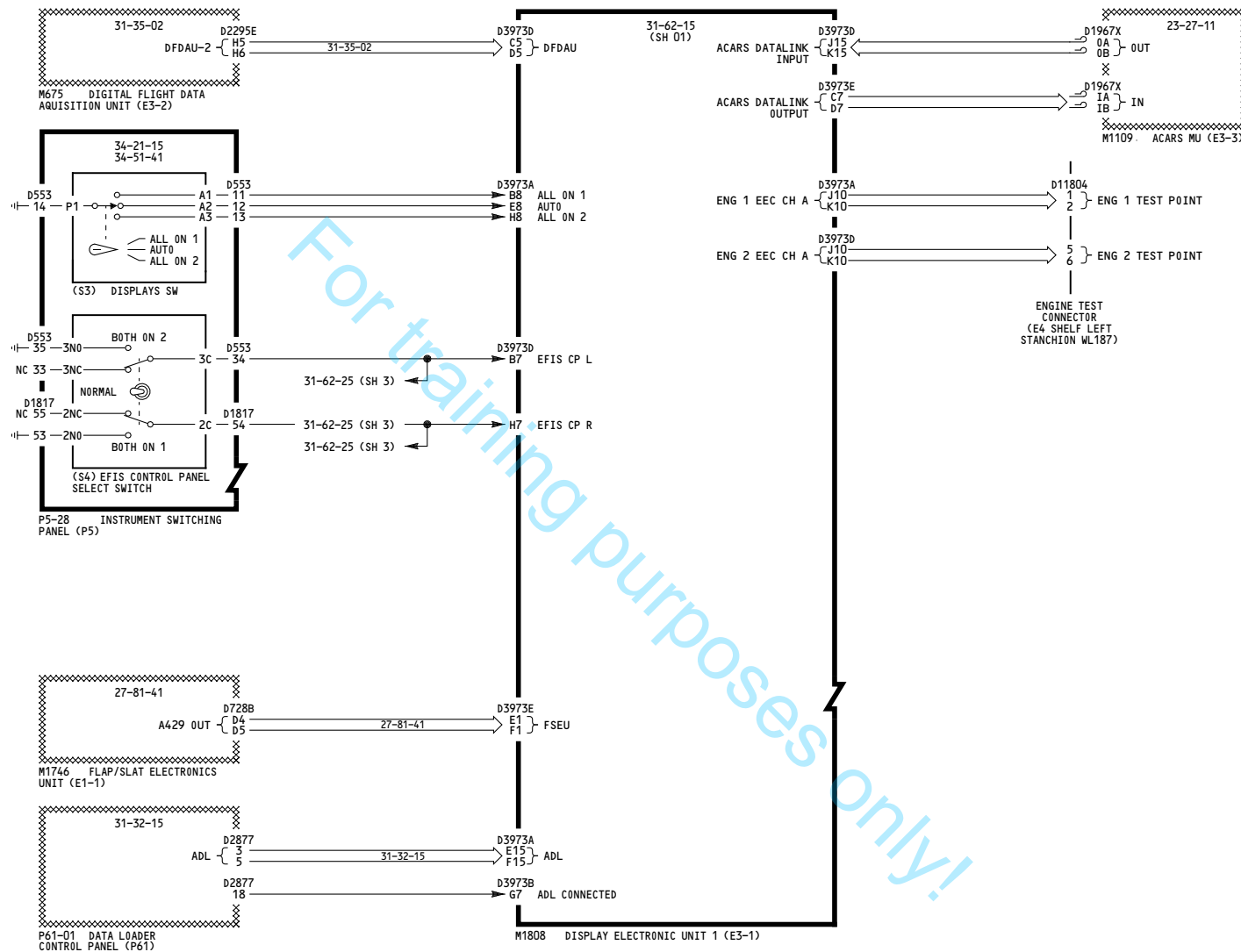


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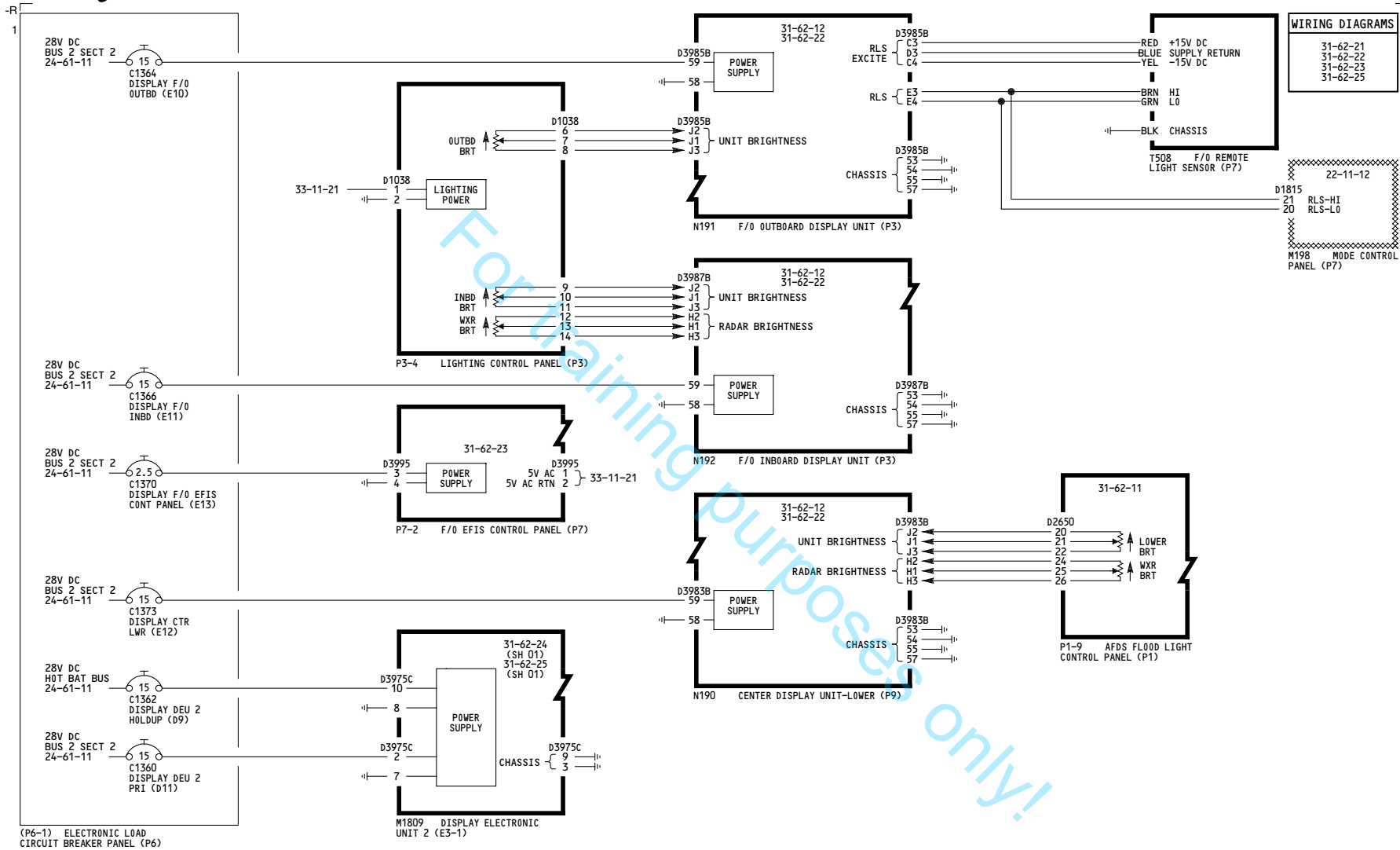
YD007

CDS - DEU 1 AVIONICS INTERFACES

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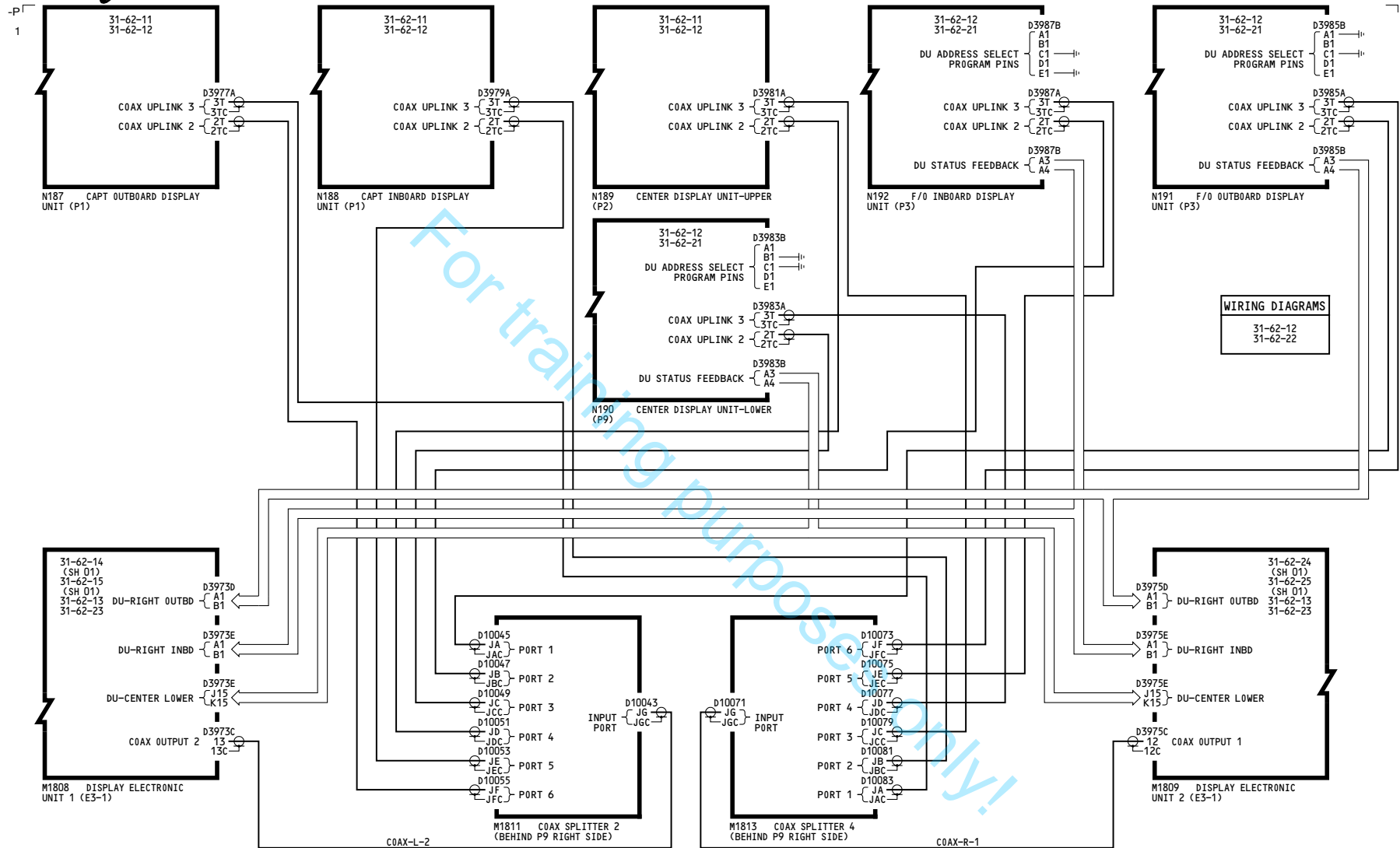
CDS - POWER DISTRIBUTION AND INSTRUMENT LIGHTING FIRST OFFICER

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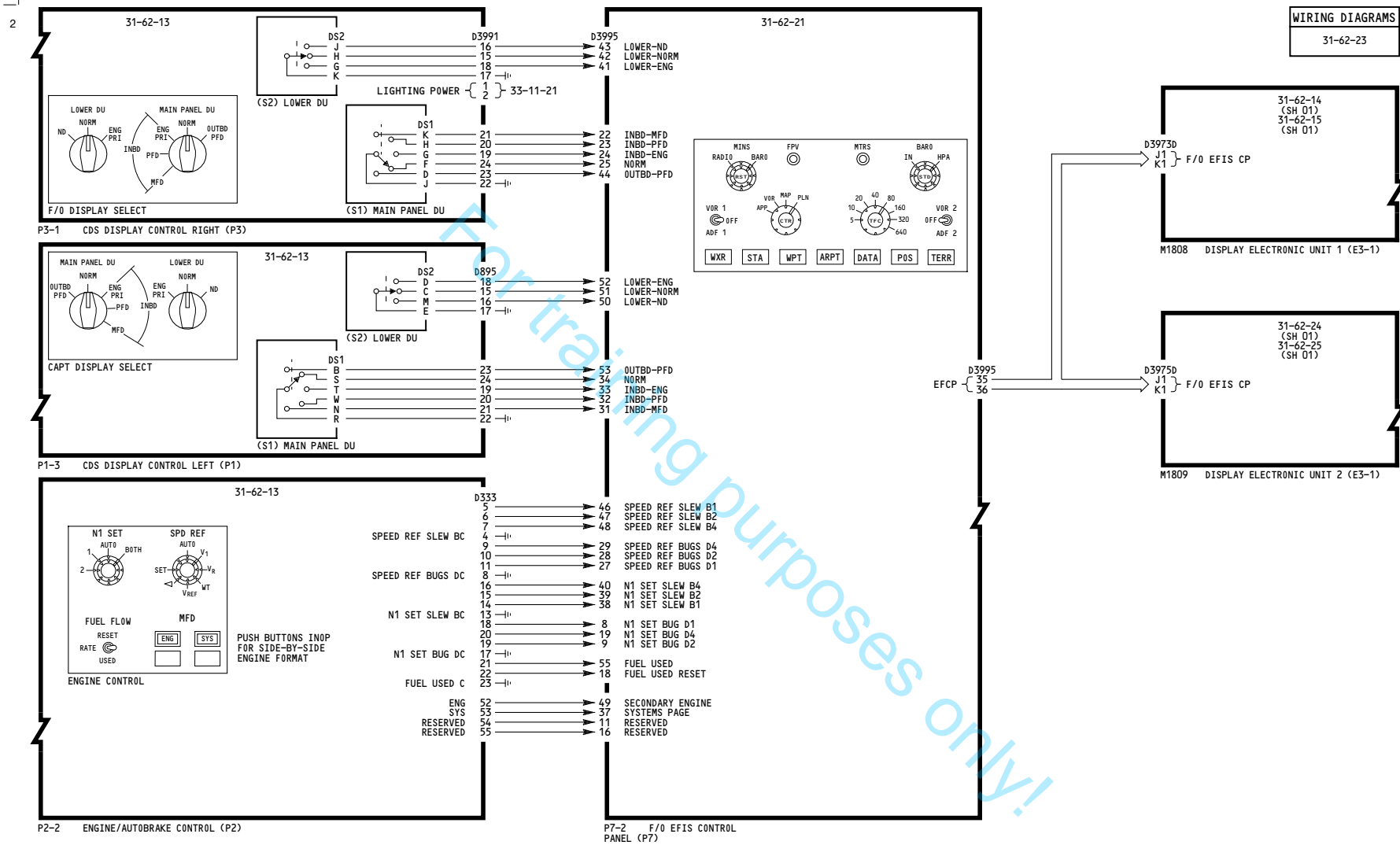
**CDS - VIDEO COAX
SPLITTERS 2 AND 4
DU STATUS**

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**CDS - CONTROL PANEL
INTERFACES F/O**

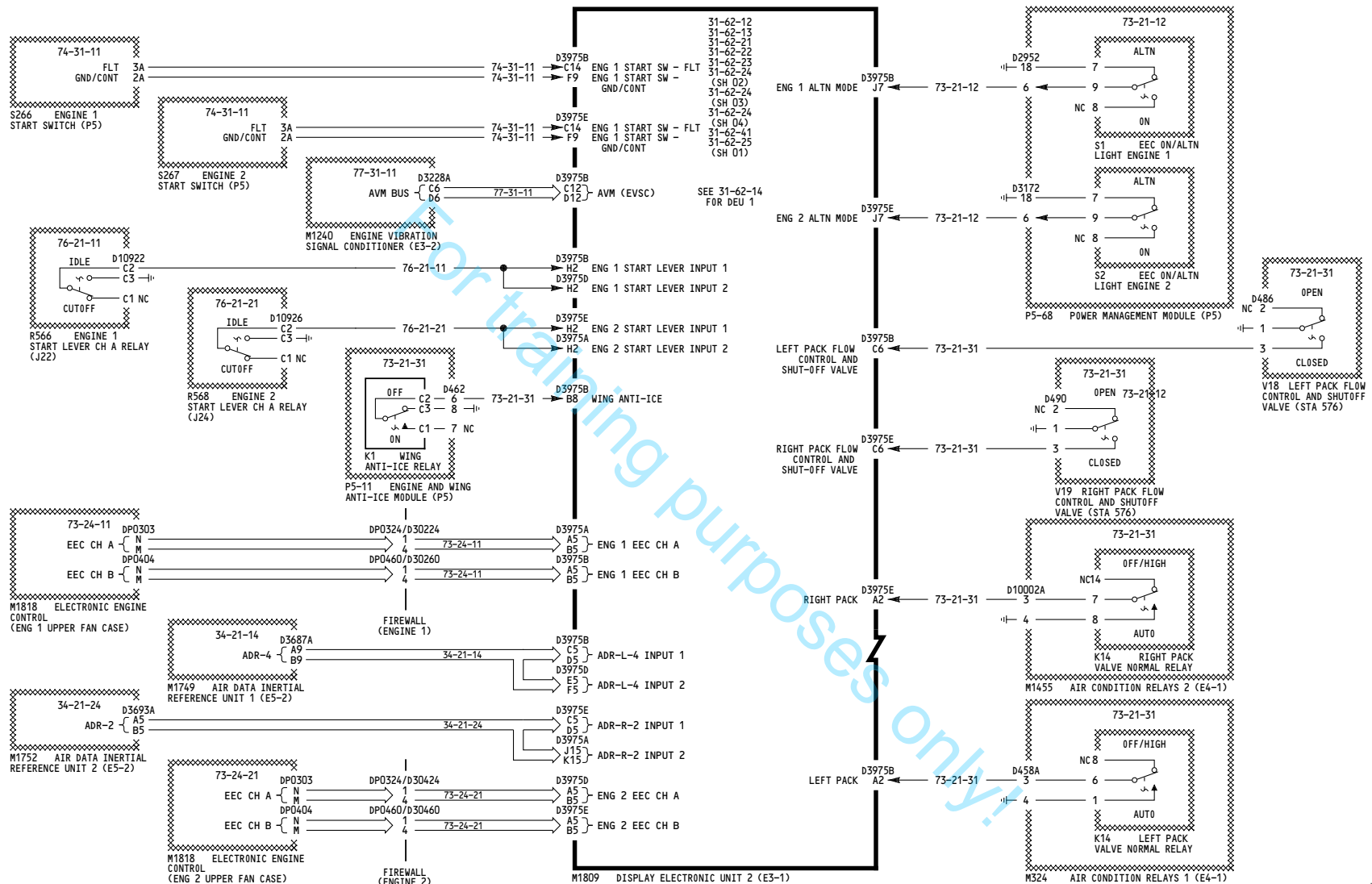
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YD001-YD007

CDS - DEU 2 ENGINE HYDRAULIC, APU AND FUEL INTERFACES

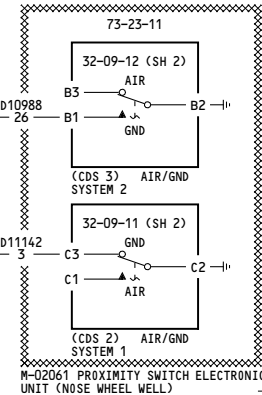
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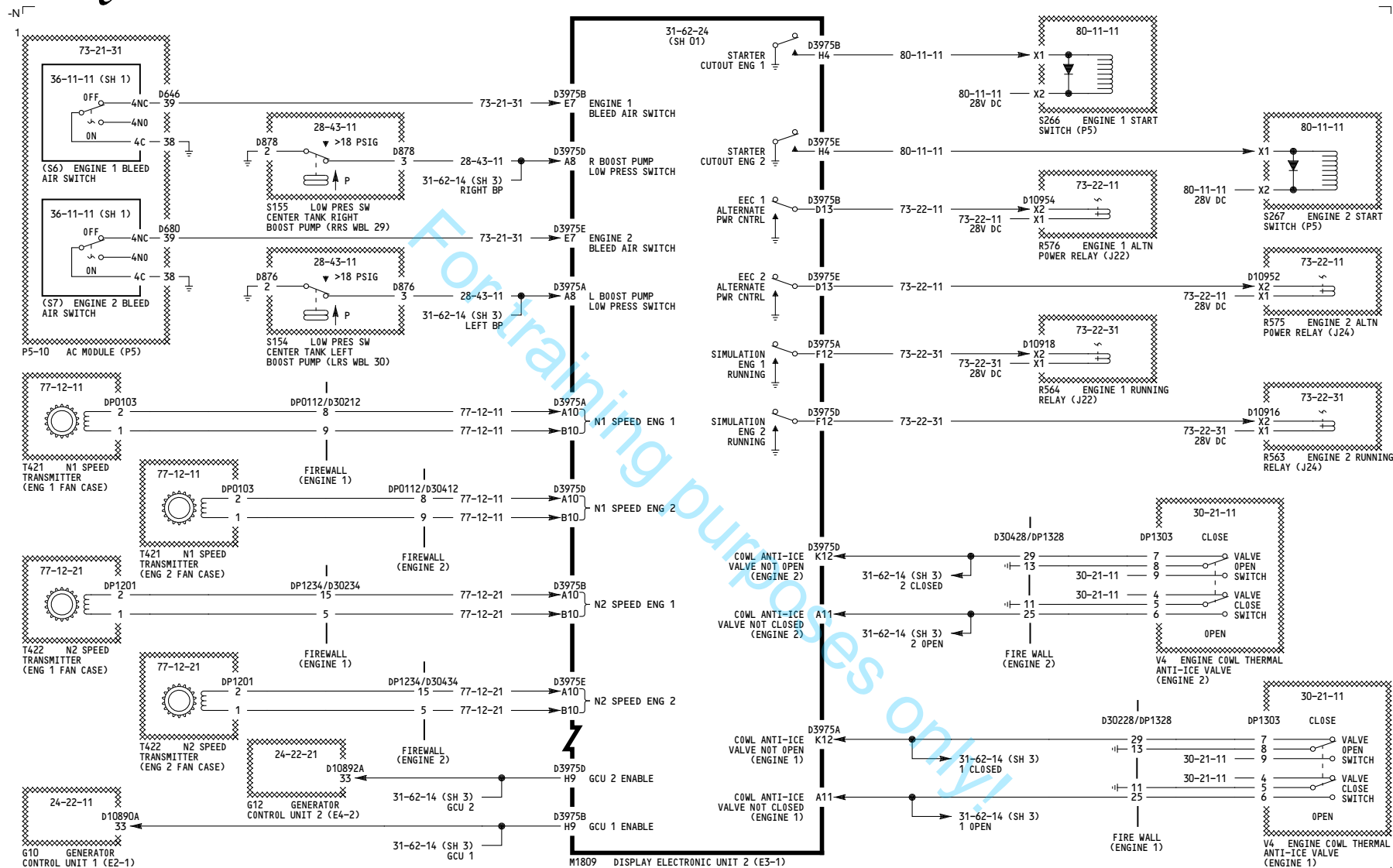


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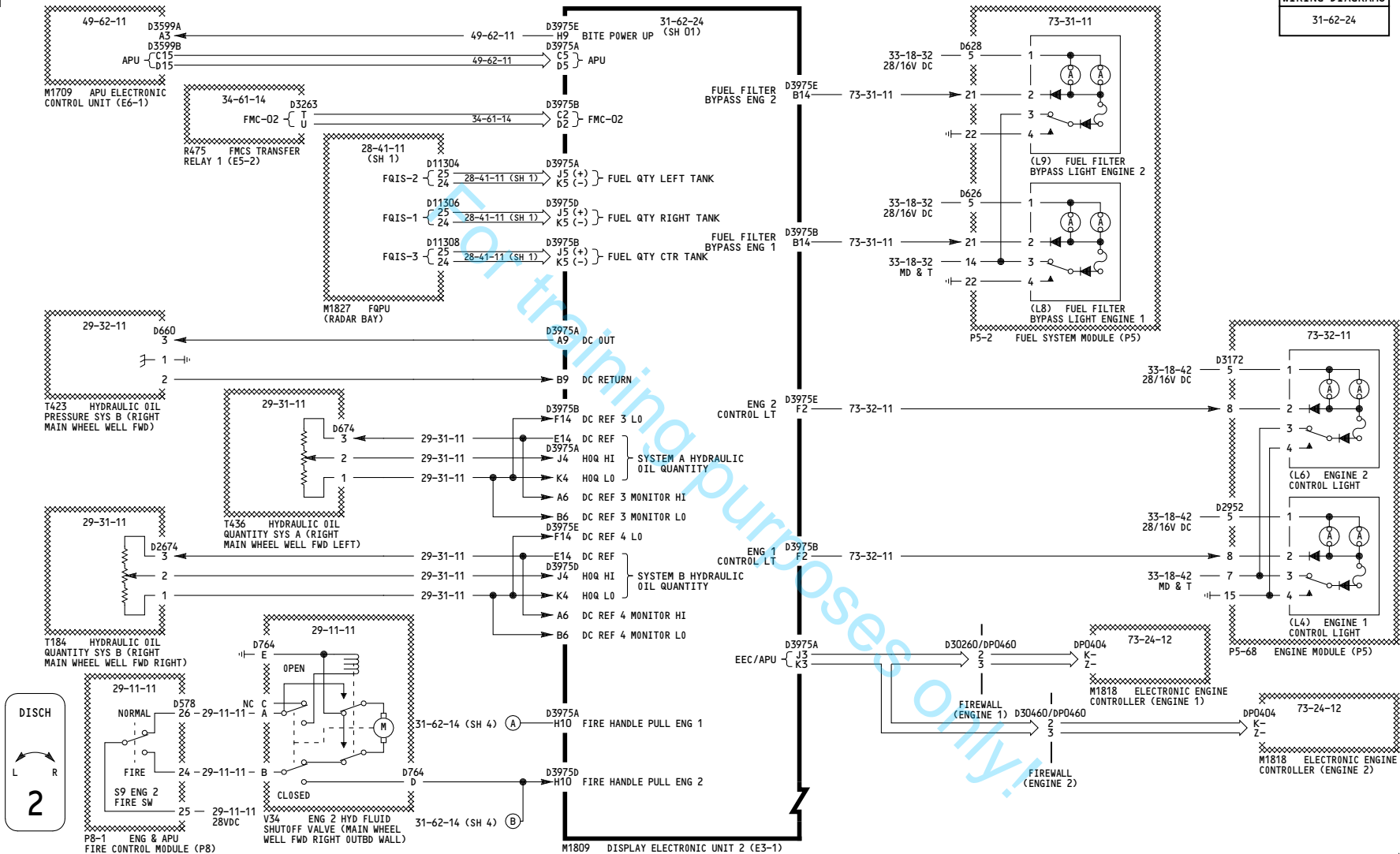
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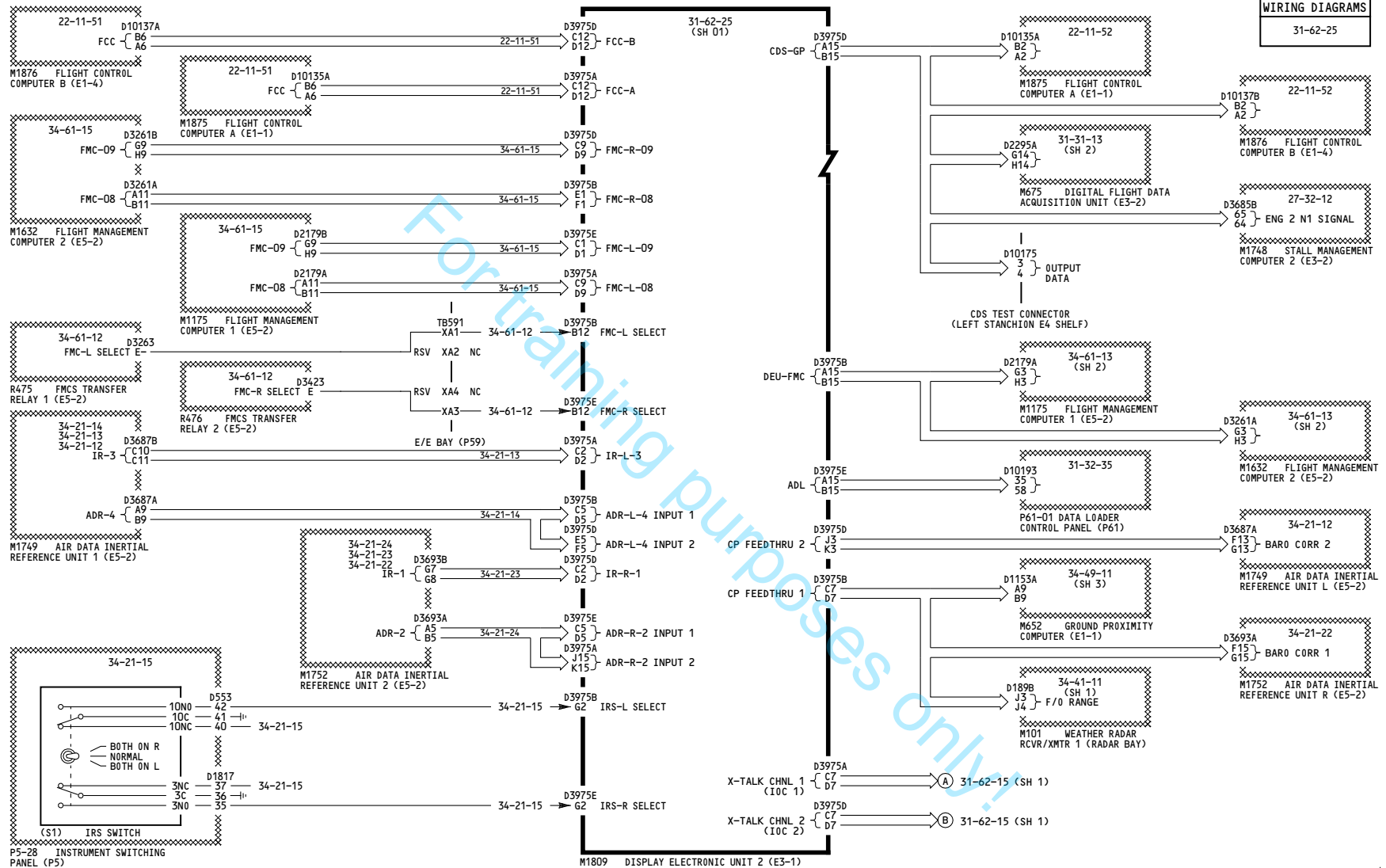
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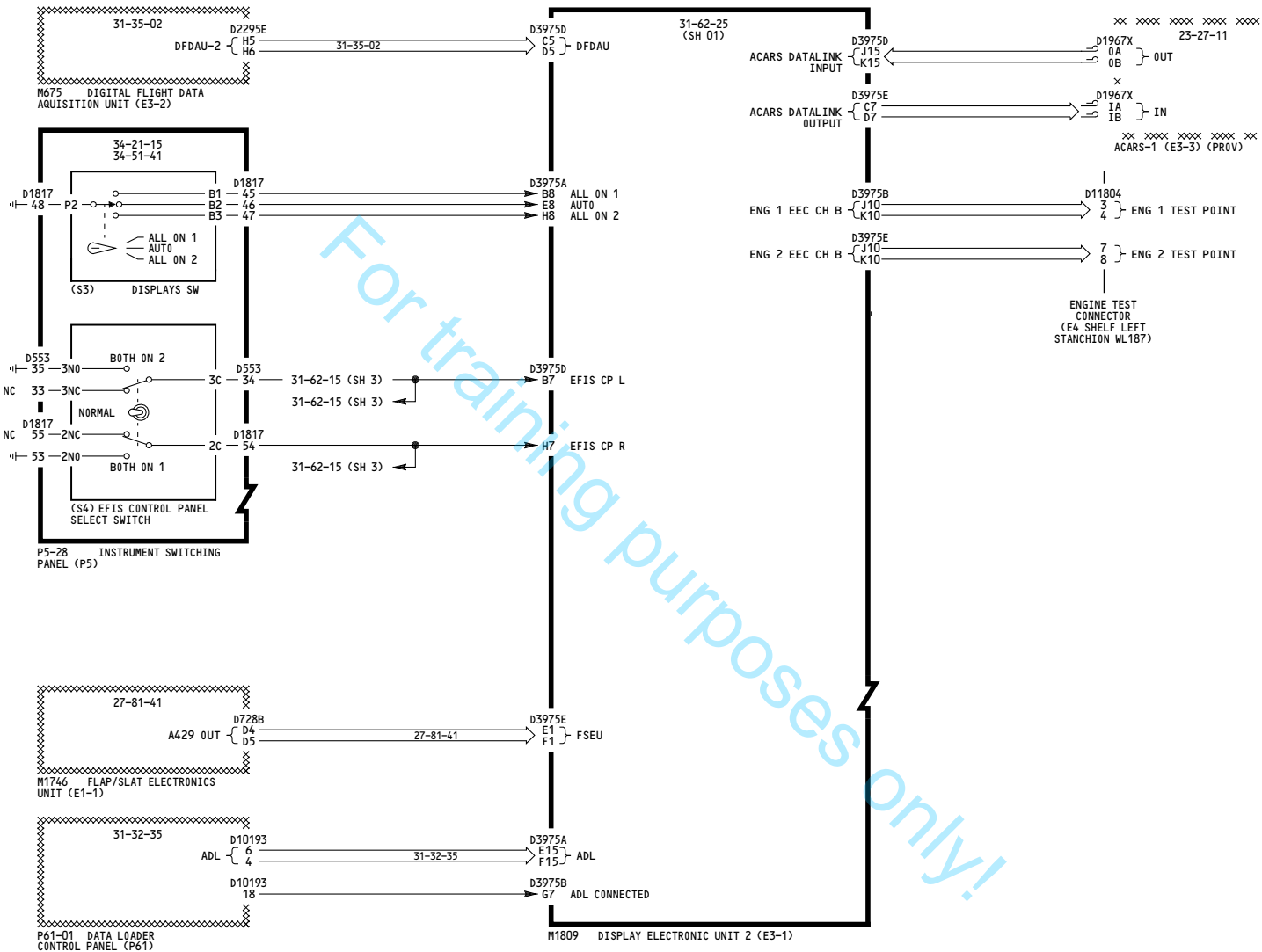
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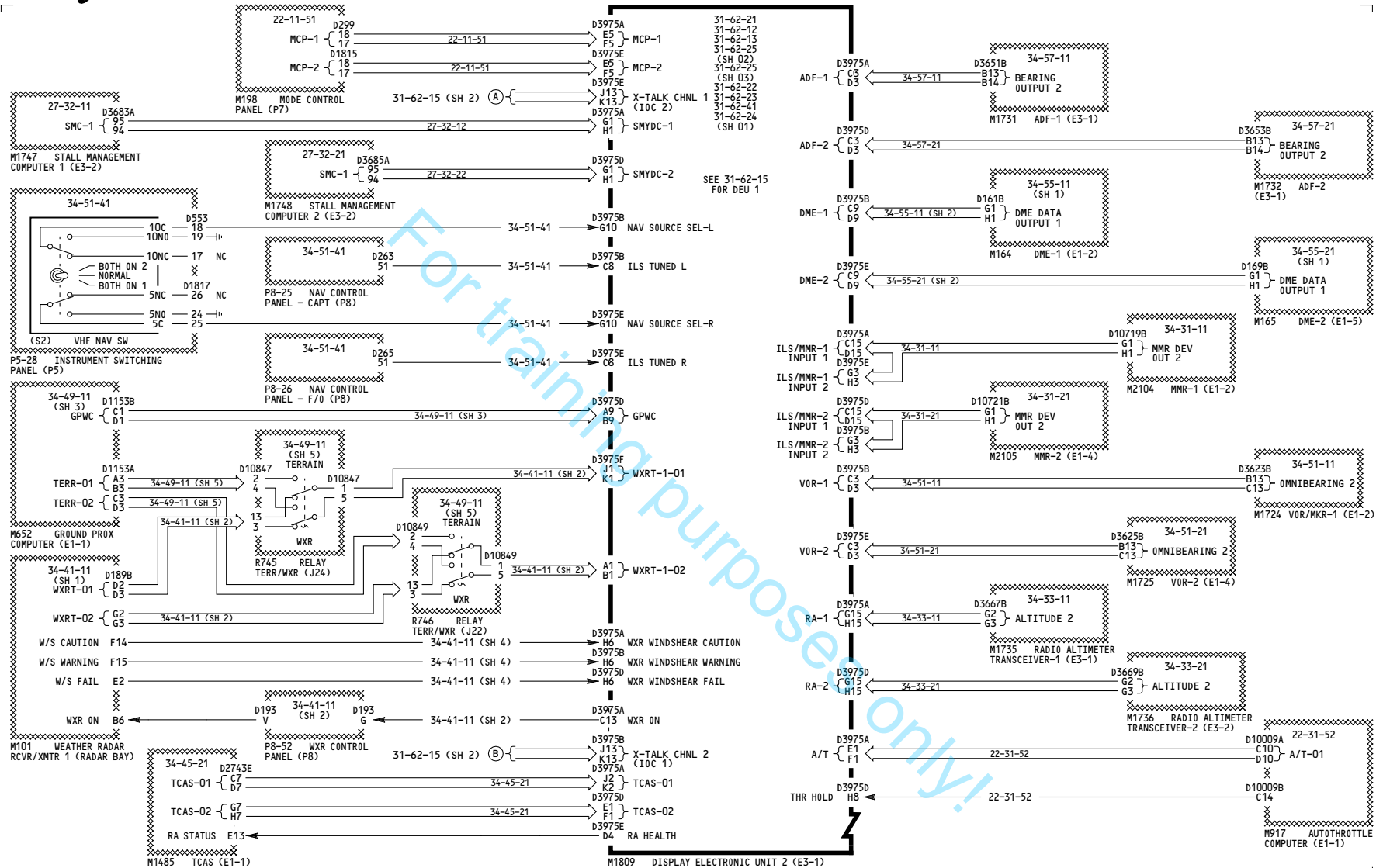
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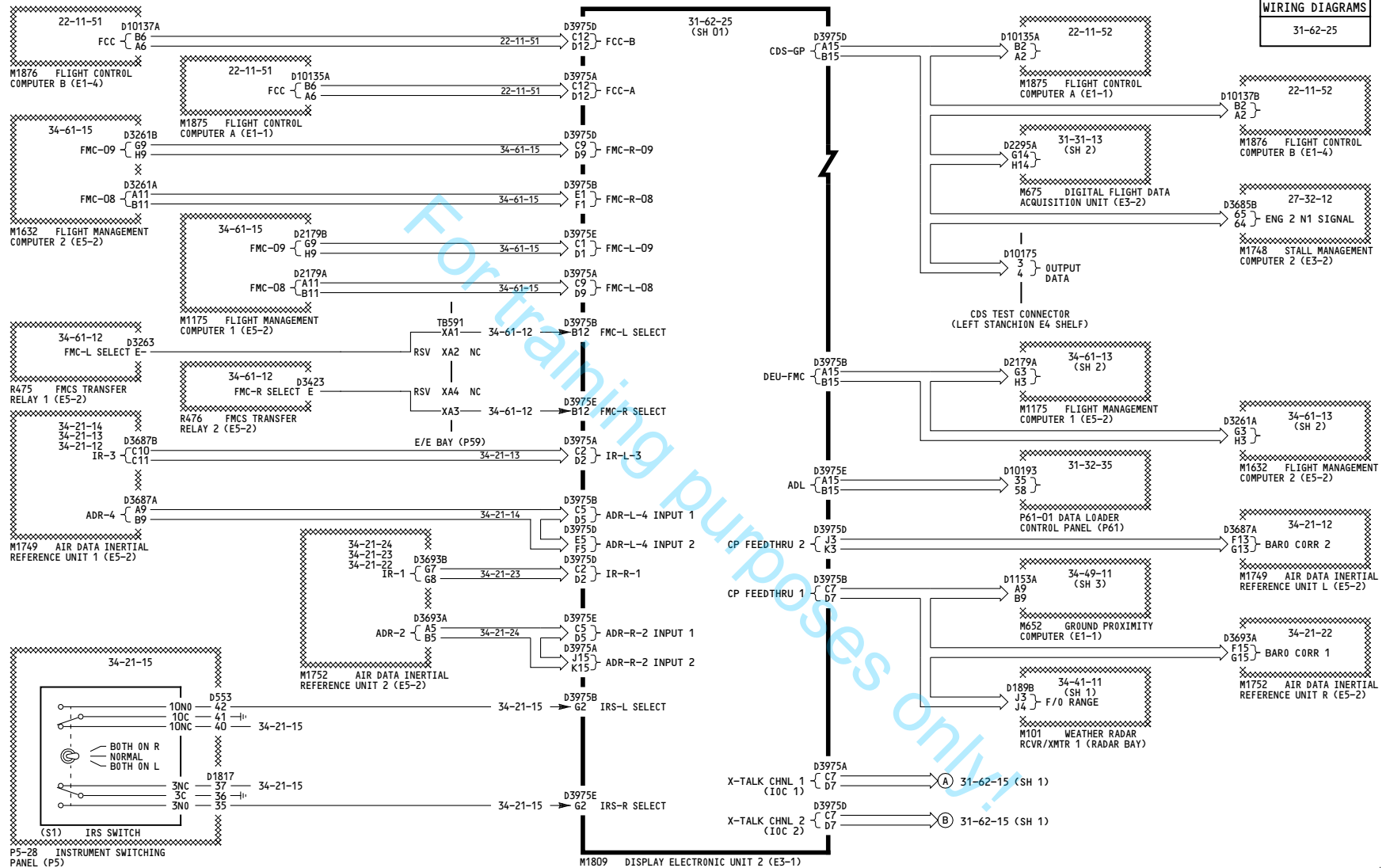
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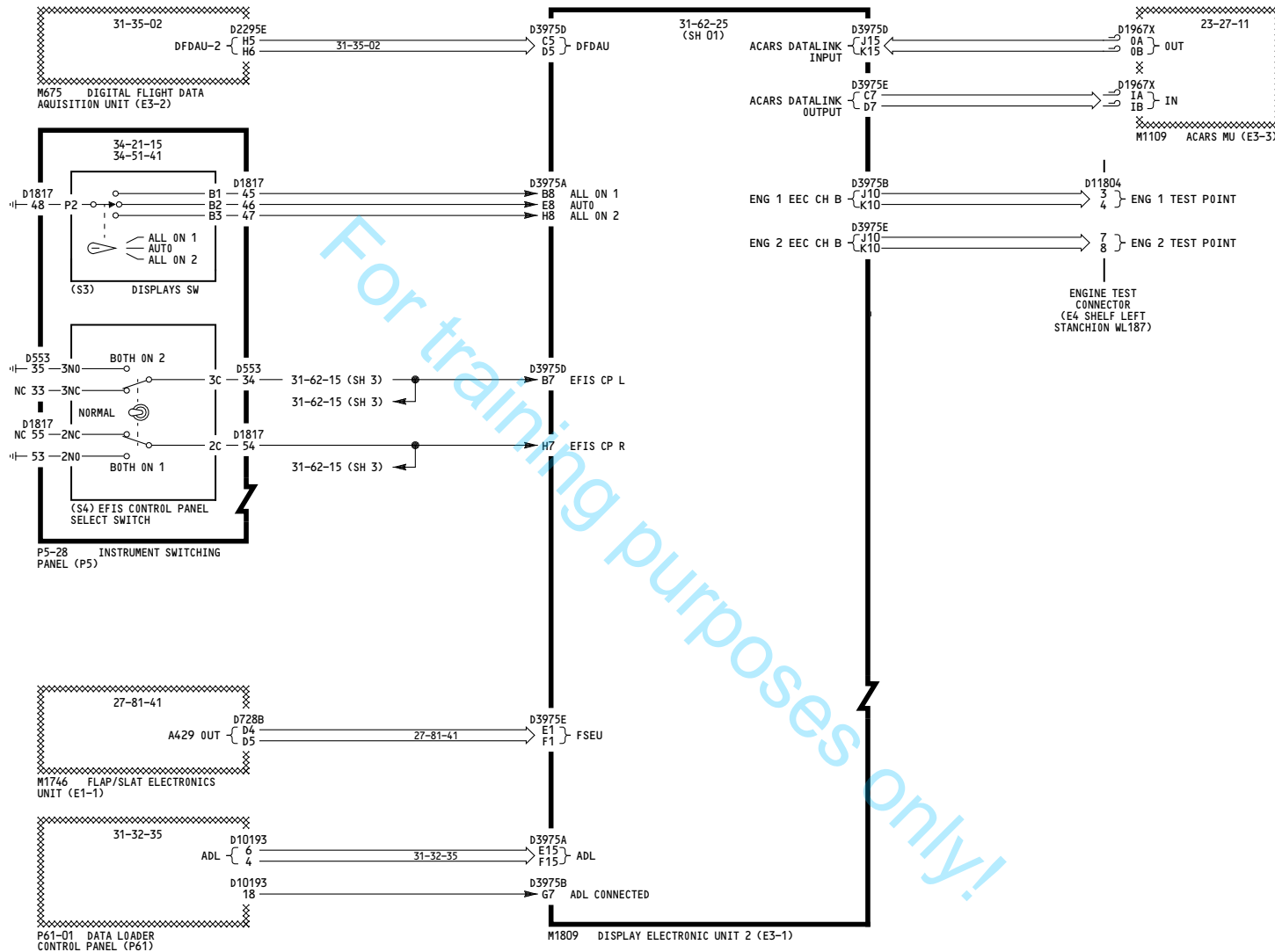
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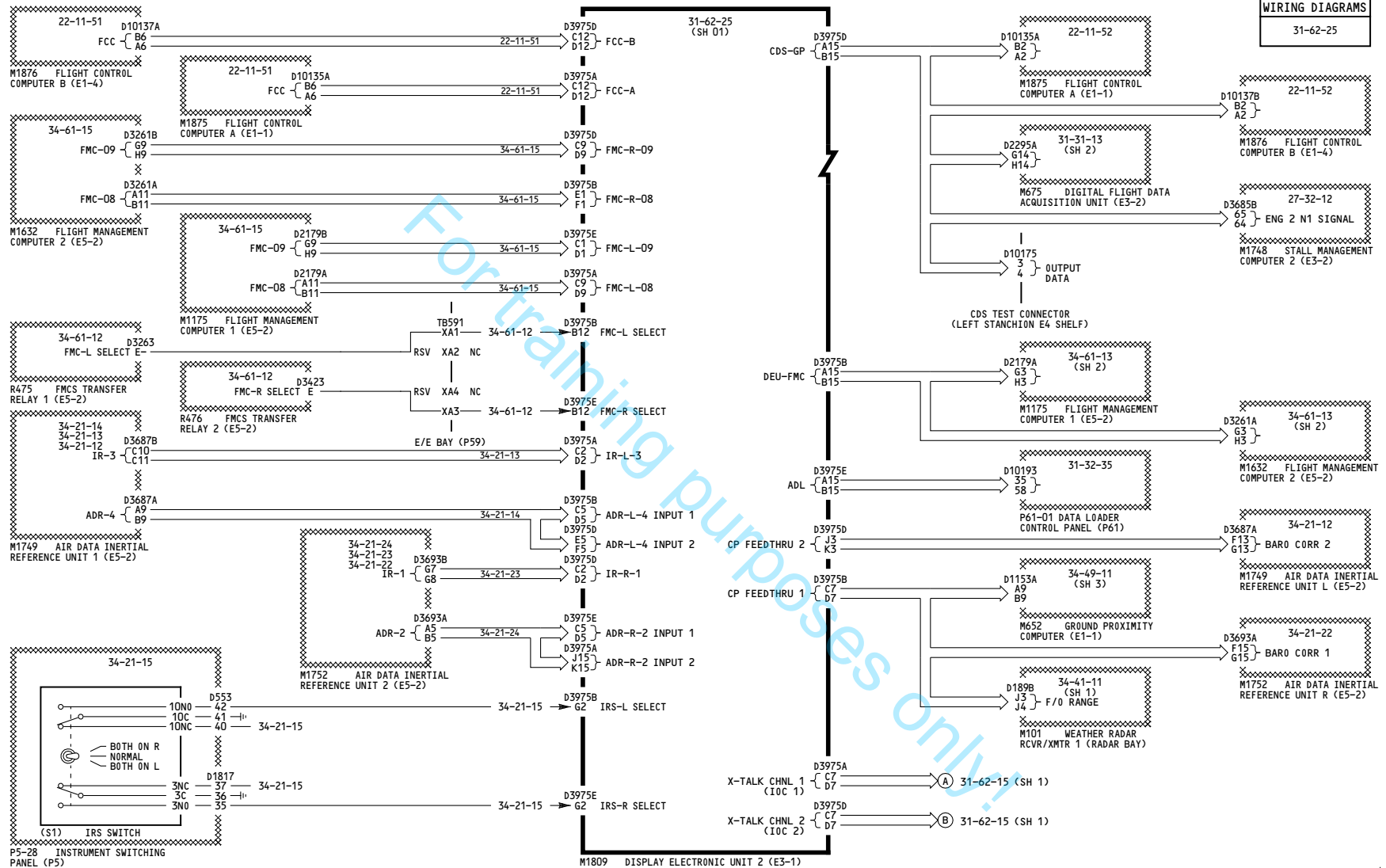
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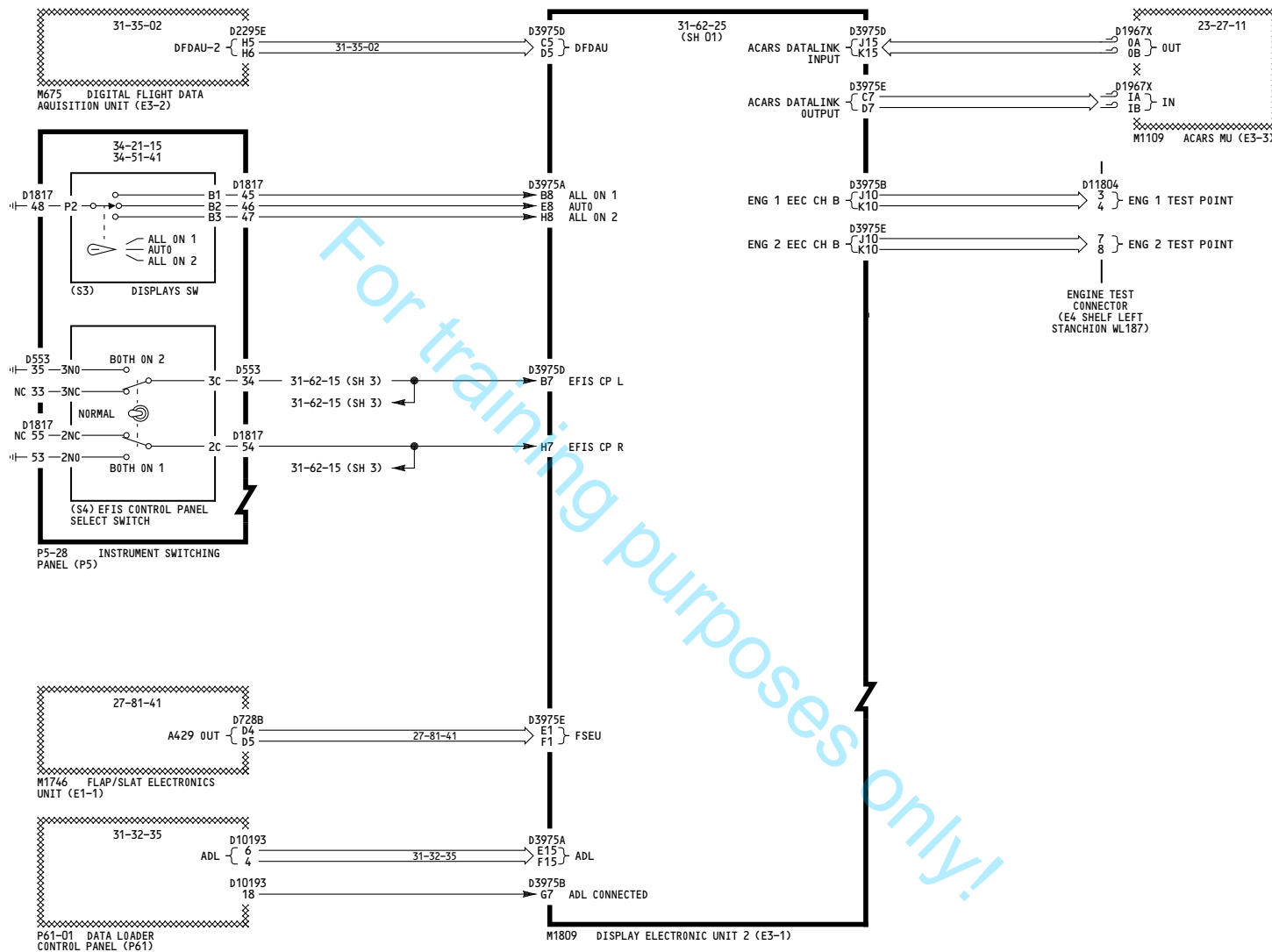
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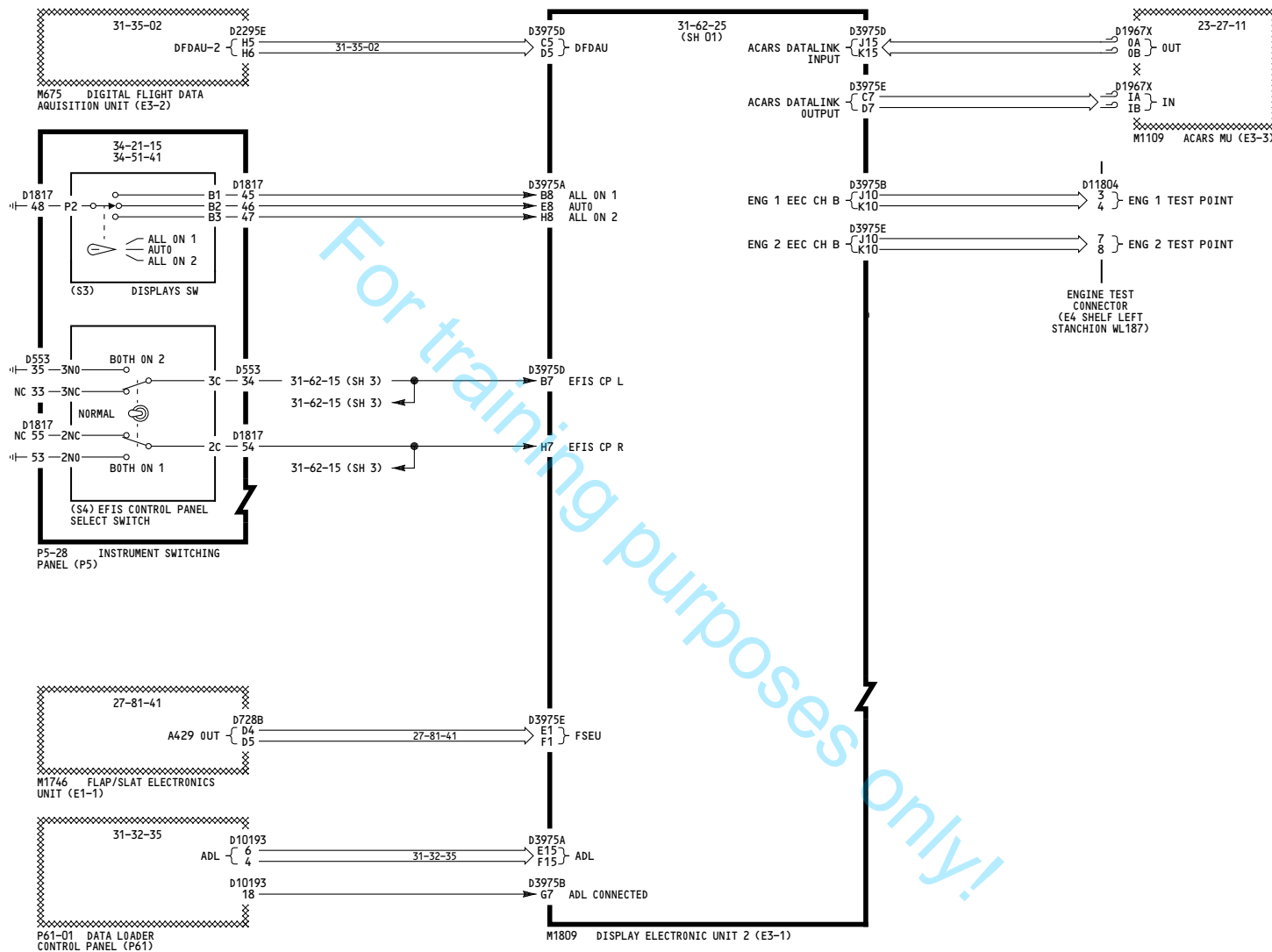
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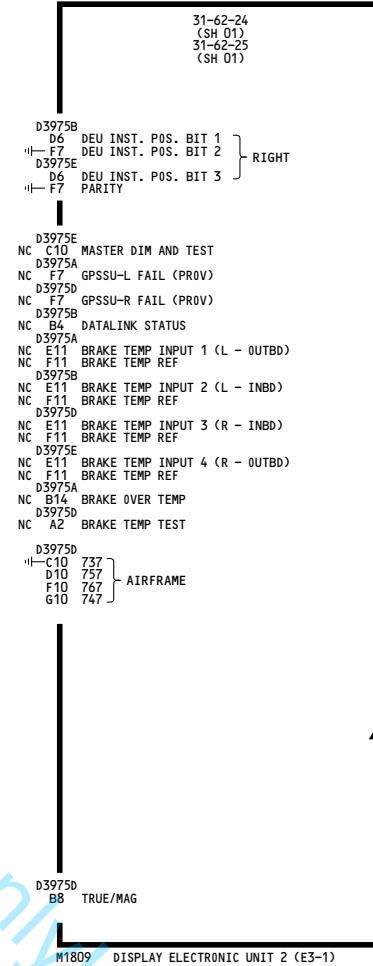
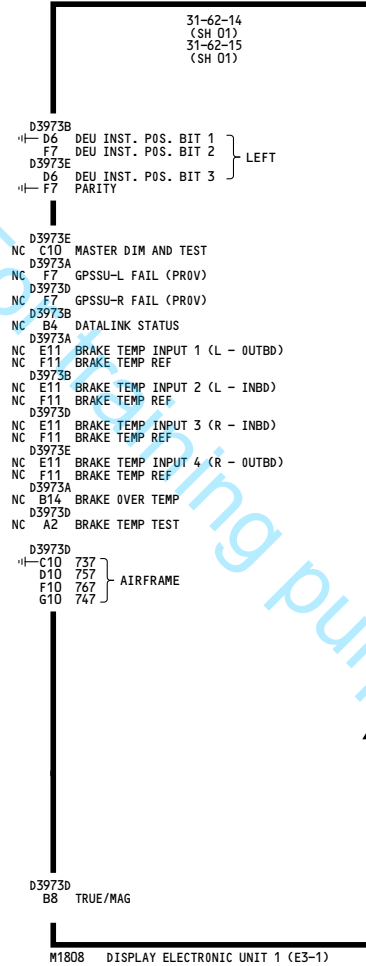
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**CDS - LRU SELECT AND
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