

# **CHAPTER**

# **34**

# **NAVIGATION**

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NAVIGATION

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		101		Jan 11/2006					
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AIR DATA - INERTIAL REFERENCE SYSTEM OVERSPEED TEST LEFT	34-16-11		101		May 02/2008	ALL
AIR DATA - INERTIAL REFERENCE SYSTEM OVERSPEED TEST RIGHT	34-16-21		101		May 02/2008	ALL
<b><u>AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS)</u></b>						
AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT CONTROL & WARNING	34-21-11		101		Oct 05/2011	YD001-YD006
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AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT SYSTEM INPUTS	34-21-12		101		Jan 11/2006	ALL
AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT IR OUTPUTS	34-21-13		101		Jan 11/2006	YD001-YD006
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AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT ADR OUTPUTS	34-21-14		101		Jan 11/2006	YD001-YD006
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AIR DATA - INERTIAL REFERENCE SYSTEM INERTIAL REF SIGNAL SWITCHING	34-21-15		101		May 02/2008	ALL
ADIRS - NO COOLING AND "ON DC" OPERATION WARNING	34-21-16		101		Jan 11/2006	ALL
AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - RIGHT CONTROL & WARNING	34-21-21		101		Jun 30/2009	YD001-YD006

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AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - RIGHT IR OUTPUTS	34-21-23		101		Jan 11/2006	YD001-YD006
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AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - RIGHT ADR OUTPUTS	34-21-24		101		Jan 11/2006	YD001-YD006
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<b><u>RADIO MAGNETIC INDICATOR</u></b>						
RMI BEARING AND HEADING	34-22-11		101		Jan 11/2006	ALL
<b><u>STANDBY ATTITUDE REFERENCE SYSTEM</u></b>						
STANDBY ATTITUDE - ILS	34-24-11		101		Jan 11/2006	ALL
<b><u>INSTRUMENT LANDING SYSTEM (ILS)</u></b>						
MMR - ILS NO. 1	34-31-11		101		Jan 11/2006	YD001-YD007
MMR - ILS NO. 2	34-31-21		101		Jan 11/2006	YD001-YD005
			102		Jan 11/2006	YD006-YD007
<b><u>MARKER BEACON SYSTEM</u></b>						
MARKER BEACON	34-32-11		101		Jun 30/2009	ALL

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RADIO ALTIMETER - 1	34-33-11		101		Jun 30/2009	YD001-YD006
			102		Jun 30/2009	YD007-YD020
RADIO ALTIMETER - 2	34-33-21		101		Jun 30/2009	YD001-YD006
			102		Jun 30/2009	YD007-YD020
<b><u>WEATHER RADAR SYSTEM</u></b>						
WEATHER RADAR SYSTEM	34-41-11		101	1	Jun 30/2009	ALL
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				3	Jan 11/2006	ALL
				4	Jan 11/2006	ALL
				5	May 09/2011	ALL
<b><u>TRAFFIC ALERT AND COLLISION AVOIDANCE SYSTEM (TCAS)</u></b>						
TRAFFIC COLLISION AVOIDANCE SYSTEM POWER INPUT, OUTPUT	34-45-11		101		Jun 30/2009	ALL
TRAFFIC COLLISION AVOIDANCE SYSTEM CONTROL AND DISPLAY	34-45-21		101		Jan 11/2006	ALL
<b><u>GROUND PROXIMITY WARNING SYSTEM</u></b>						
GROUND PROXIMITY WARNING	34-49-11		101	1	Jun 30/2009	YD001-YD005
				2	May 09/2011	YD001-YD005
				3	Jun 30/2009	YD001-YD005
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<b><u>VOR SYSTEM</u></b>							
VOR NO. 1	34-51-11		101		Jun 30/2009	ALL	
VOR NO. 2	34-51-21		101		Jun 30/2009	ALL	
VOR/ILS INSTRUMENT TRANSFER SWITCHING	34-51-41		101		May 02/2008	YD001-YD007	
<b><u>ATC SYSTEM</u></b>							
ATC TRANSPONDER 1	34-53-11		101		Jan 11/2006	ALL	
				101.1	1	May 02/2008	YD001-YD005 YD007
					2	Jan 11/2006	YD001-YD005 YD007
				101.2	1	Jun 30/2009	YD006
					2	Jan 11/2006	YD006
ATC TRANSPONDER 2	34-53-21		101		Jun 30/2009	ALL	
				101.1	1	Jun 30/2009	YD001-YD005 YD007
					2	Jan 11/2006	YD001-YD005 YD007
				101.2	1	Jun 30/2009	YD006
					2	Jan 11/2006	YD006
ATC ANTENNA SELECT	34-53-31		101.1		Jan 11/2006	YD001-YD005 YD007	
ATC ENHANCED SURVEILLANCE	34-53-41		101.1		Jan 11/2006	YD001-YD005 YD007	
			102.1		Jan 11/2006	YD006	

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<b><u>DISTANCE MEASURING SYSTEM (DME) SYSTEM</u></b>						
DME NO. 1	34-55-11		101	1	Jun 30/2009	ALL
				2	Jan 11/2006	ALL
DME NO. 2	34-55-21		101	1	Jun 30/2009	ALL
				2	Jan 11/2006	ALL
<b><u>AUTOMATIC DIRECTION FINDER (ADF) SYSTEM</u></b>						
AUTOMATIC DIRECTION FINDER NO. 1	34-57-11		101		Jun 30/2009	ALL
AUTOMATIC DIRECTION FINDER NO. 2	34-57-21		101		Jun 30/2009	ALL
<b><u>GLOBAL POSITIONING SYSTEM (GPS)</u></b>						
GLOBAL POSITIONING SYSTEM GPSSU 1	34-58-11		101		Jan 11/2006	YD001-YD007
			101.1		Jan 11/2006	YD001-YD005 YD007
			101.2		Jan 11/2006	YD006
GLOBAL POSITIONING SYSTEM GPSSU 2	34-58-21		101		Jan 11/2006	YD001-YD007
			101.1		May 02/2008	YD001-YD005 YD007
			101.2		May 02/2008	YD006
<b><u>FLIGHT MANAGEMENT COMPUTER SYSTEM (FMCS)</u></b>						
FMCS POWER AND DISPLAY	34-61-11		101		Jun 30/2009	ALL
FMCS SWITCHING AND INTER-SYSTEM BUS	34-61-12		101		Jan 11/2006	YD001-YD005
			102		Jan 11/2006	YD006-YD020
FMCS ARINC 429 INPUTS	34-61-13		101	1	Jan 11/2006	YD001-YD006
				2	Jan 11/2006	YD001-YD006
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			101.2		Jan 11/2006	YD006
			102		Jan 11/2006	YD007
			102.1		Jan 11/2006	YD007
FMCS OUTPUT BUSSES FMC-08 AND FMC-09	34-61-15		101		May 02/2008	ALL
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FMCS/DATA LOADER INTERFACE	34-61-18		101		Jan 11/2006	ALL
FMCS PROGRAM PINS	34-61-19		101		Jan 11/2006	YD001-YD005
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			101.1		Jan 11/2006	YD001-YD005
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34-33-11	RADIO ALTIMETER - 1		
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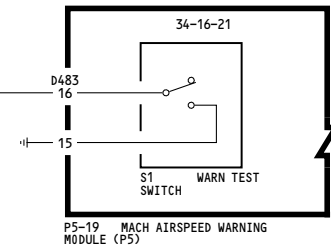
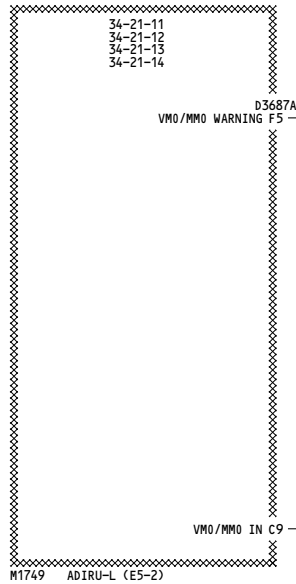
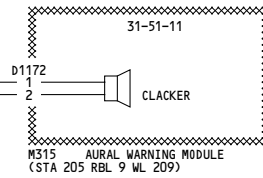
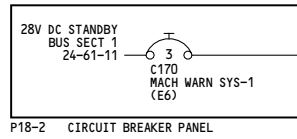
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ALL

**AIR DATA - INERTIAL  
REFERENCE SYSTEM  
OVERSPEED TEST LEFT**

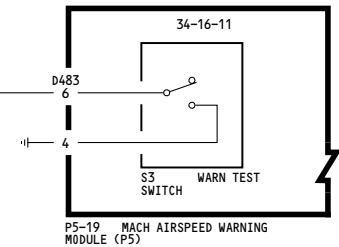
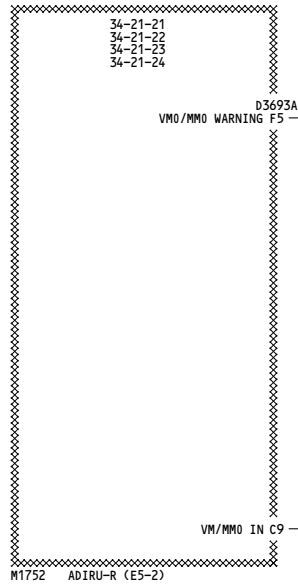
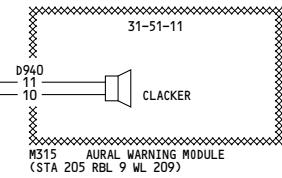
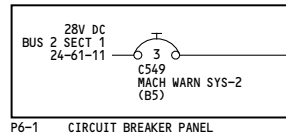
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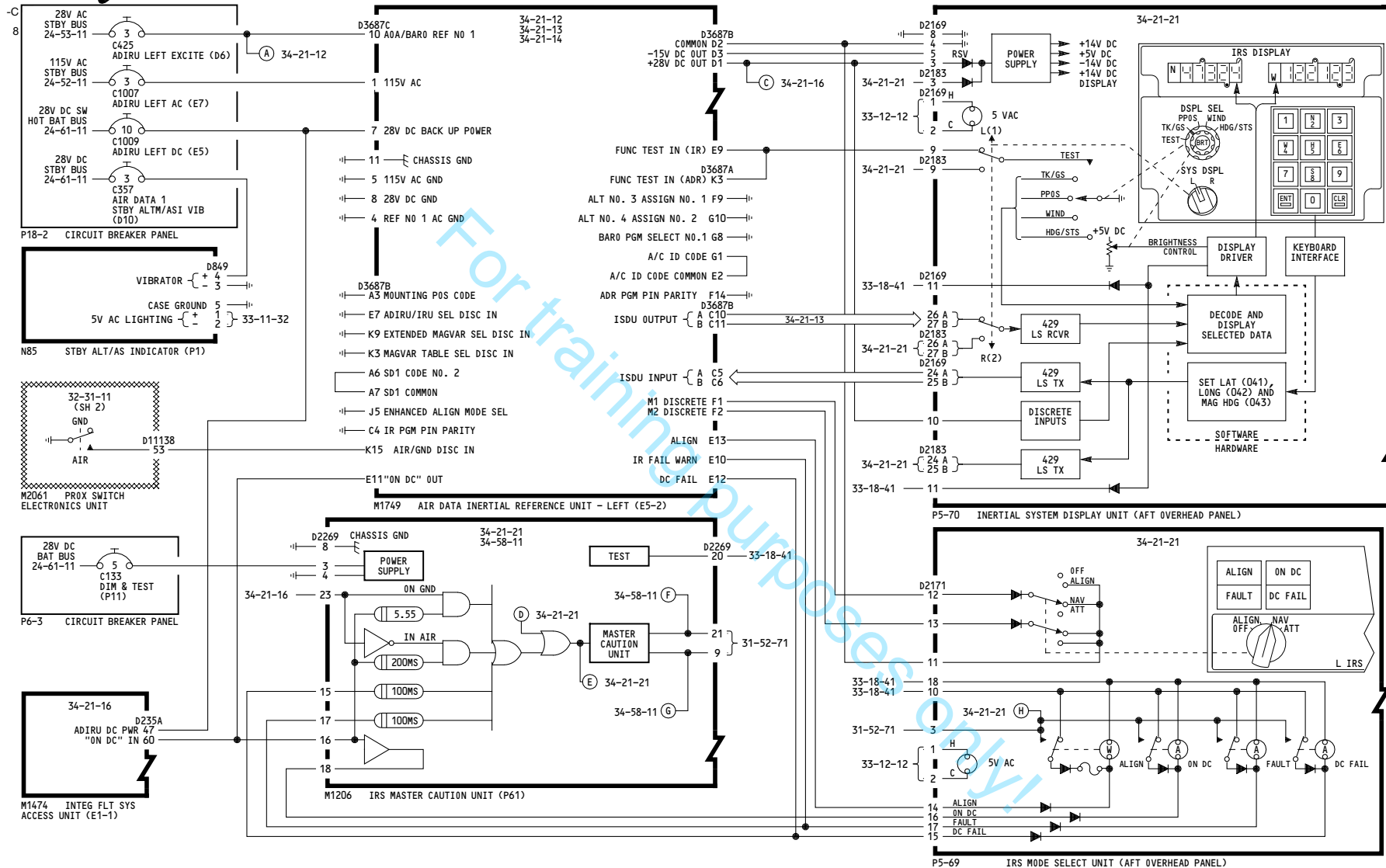


ALL	<b>AIR DATA - INERTIAL REFERENCE SYSTEM OVERSPEED TEST RIGHT</b>
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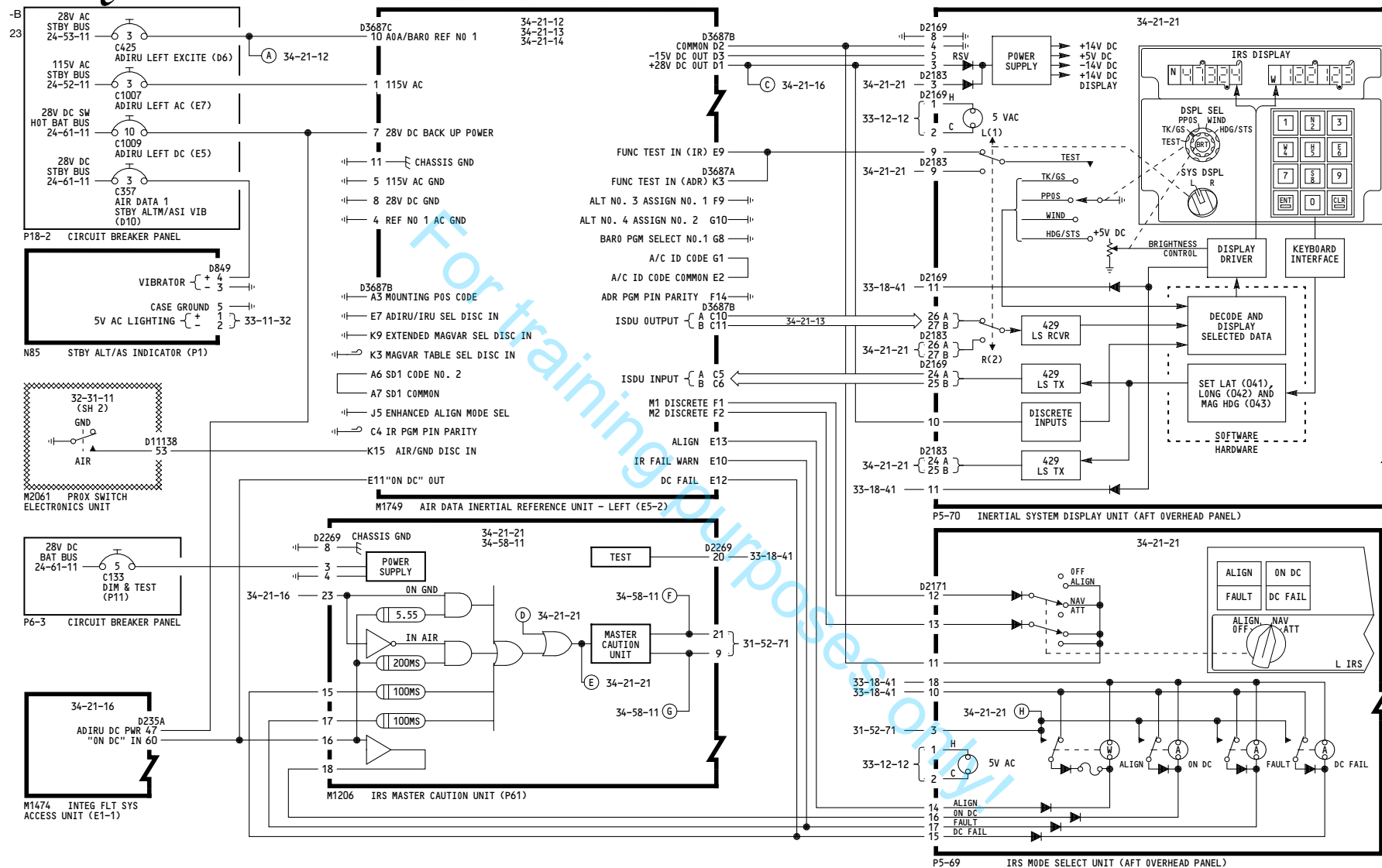
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**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- LEFT CONTROL & WARNING**

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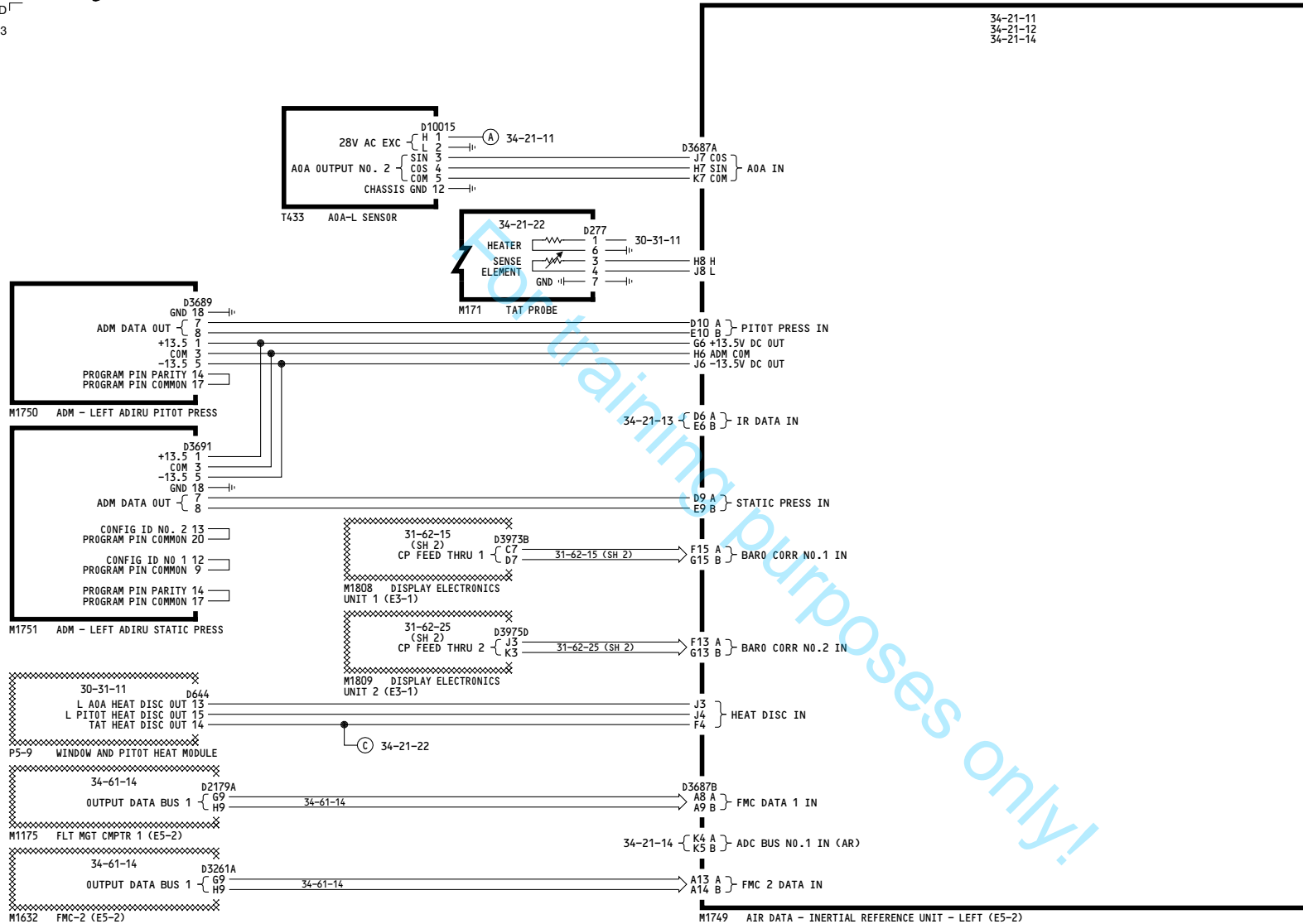
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WIRING DIAGRAMS  
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ALL

## AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT SYSTEM INPUTS

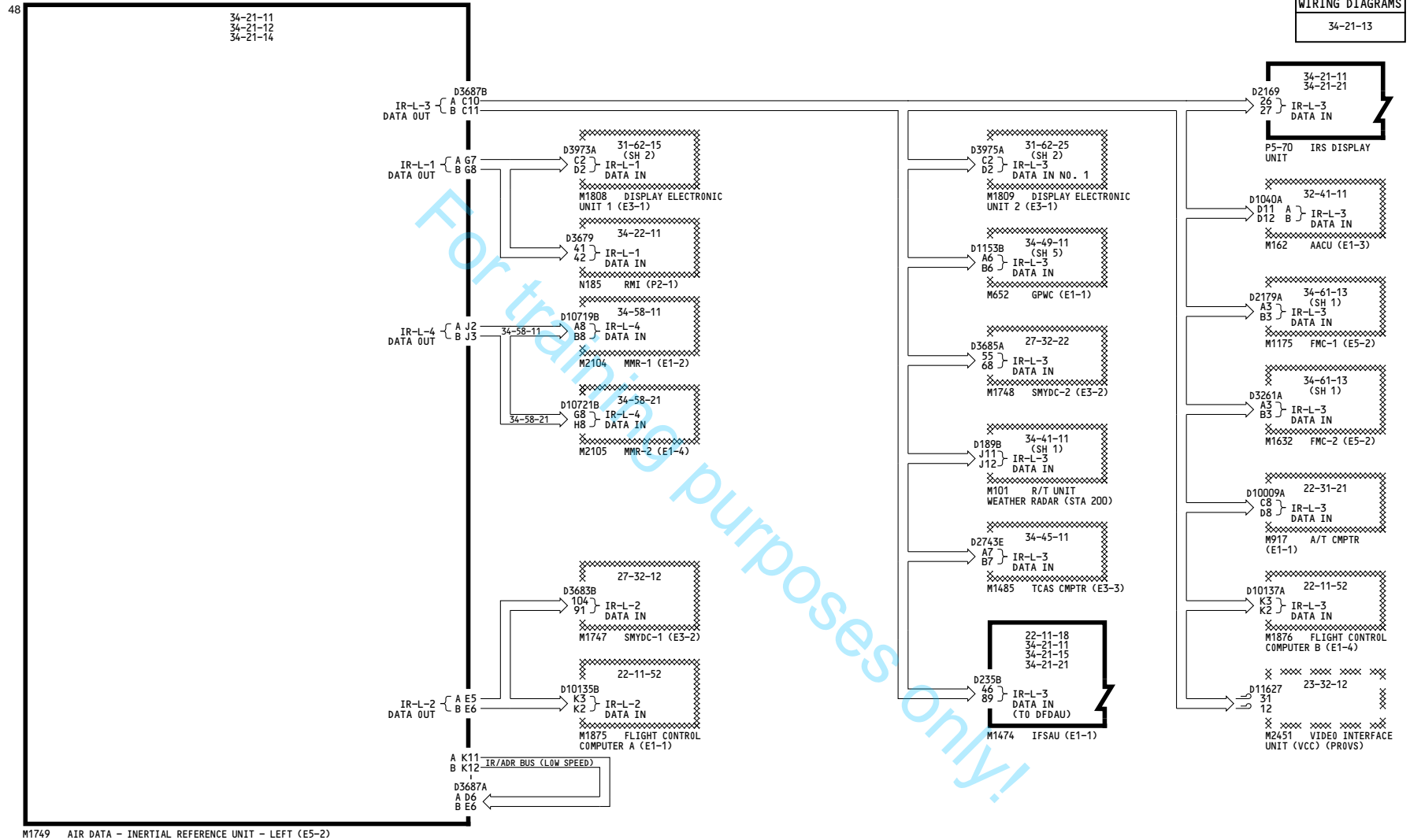
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M1749 AIR DATA - INERTIAL REFERENCE UNIT - LEFT (E5-2)

YD001-YD006

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- LEFT IR OUTPUTS**

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**34-21-13**

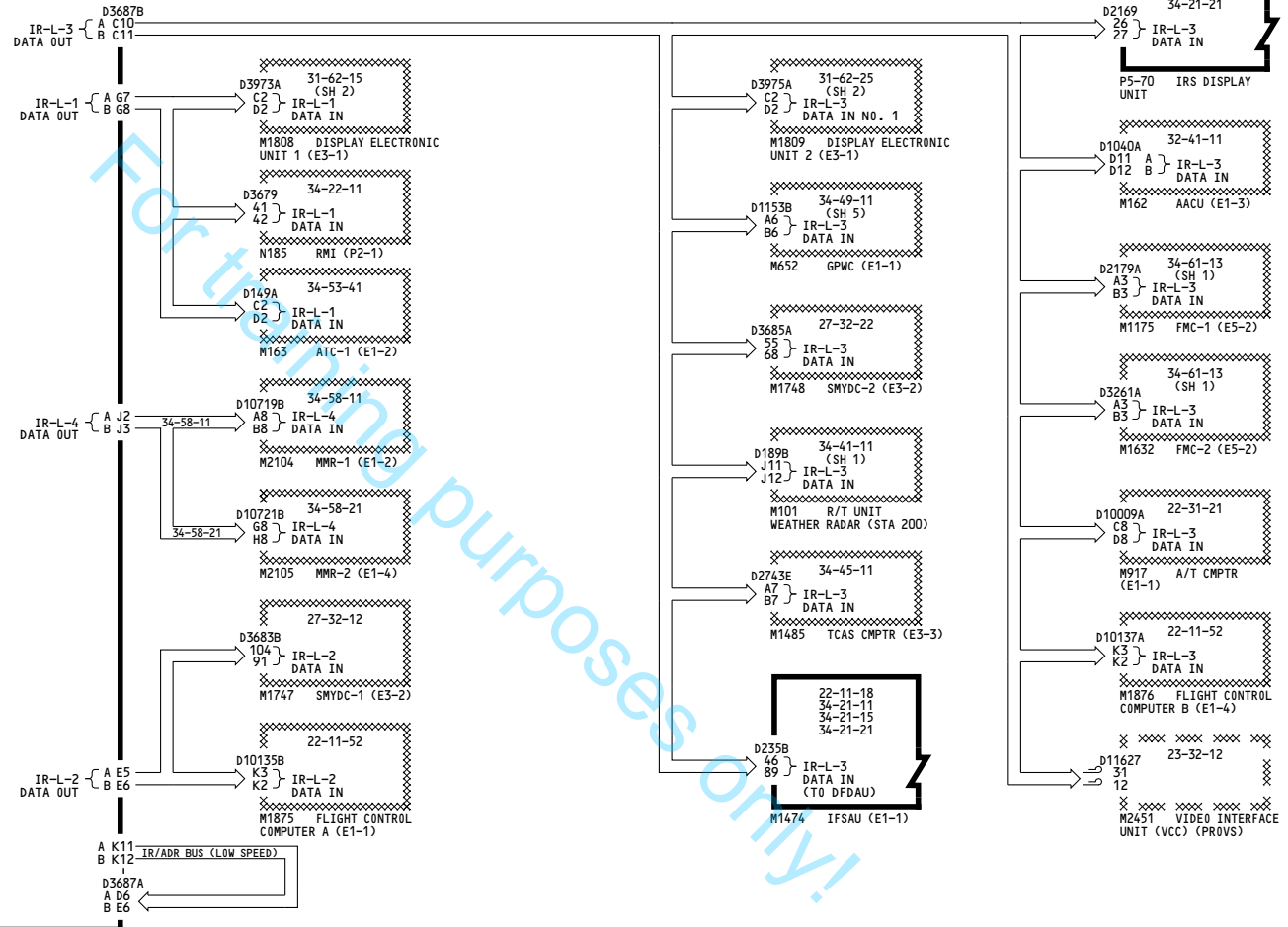
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34-21-11  
34-21-12  
34-21-14

**WIRING DIAGRAMS**  
34-21-13



M1749 AIR DATA - INERTIAL REFERENCE UNIT - LEFT (E5-2)

YD001-YD005

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- LEFT IR OUTPUTS**

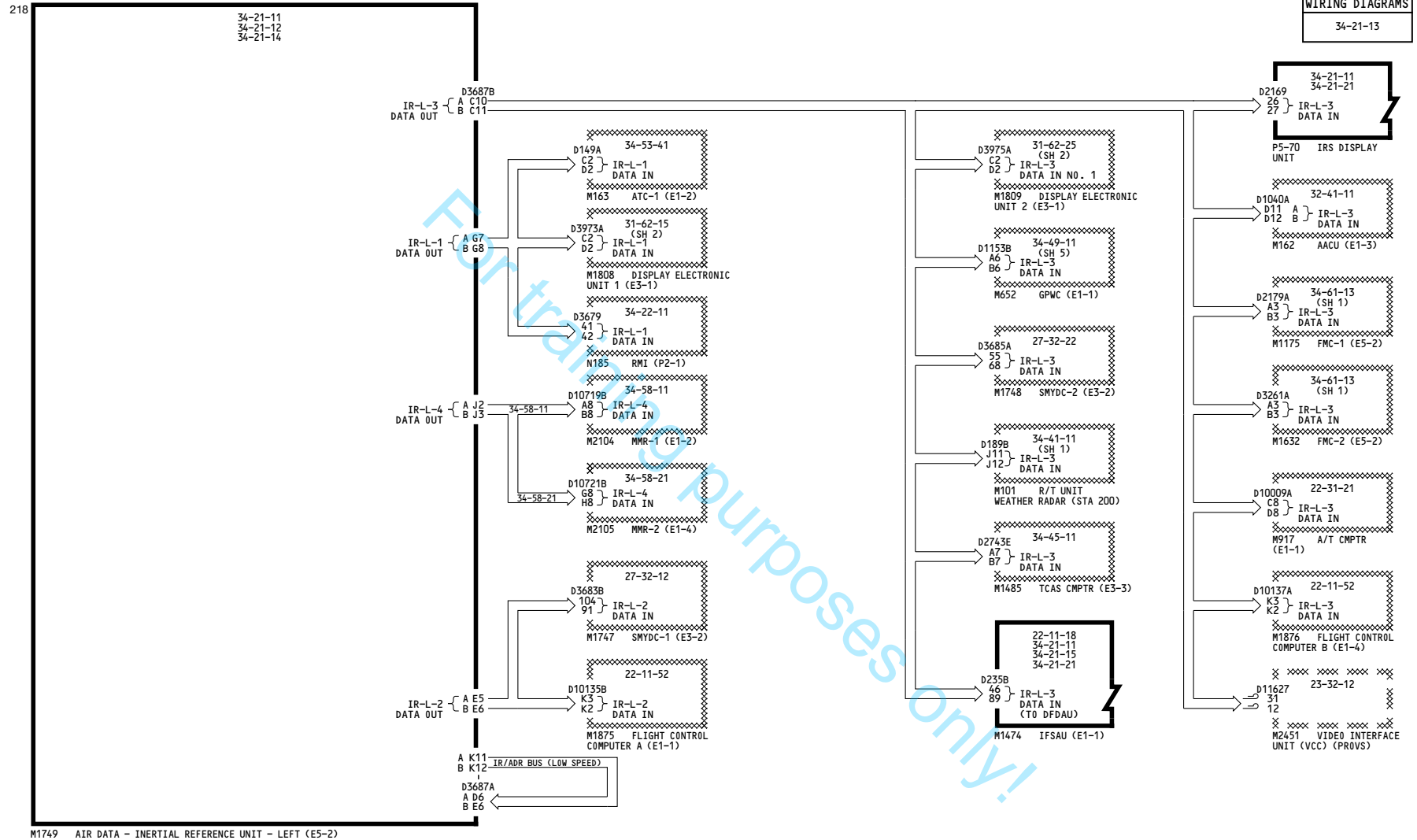
**Incorporates**  
34-1767 R01

D280A238

**34-21-13**

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M1749 AIR DATA - INERTIAL REFERENCE UNIT - LEFT (E5-2)

YD006

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- LEFT IR OUTPUTS**

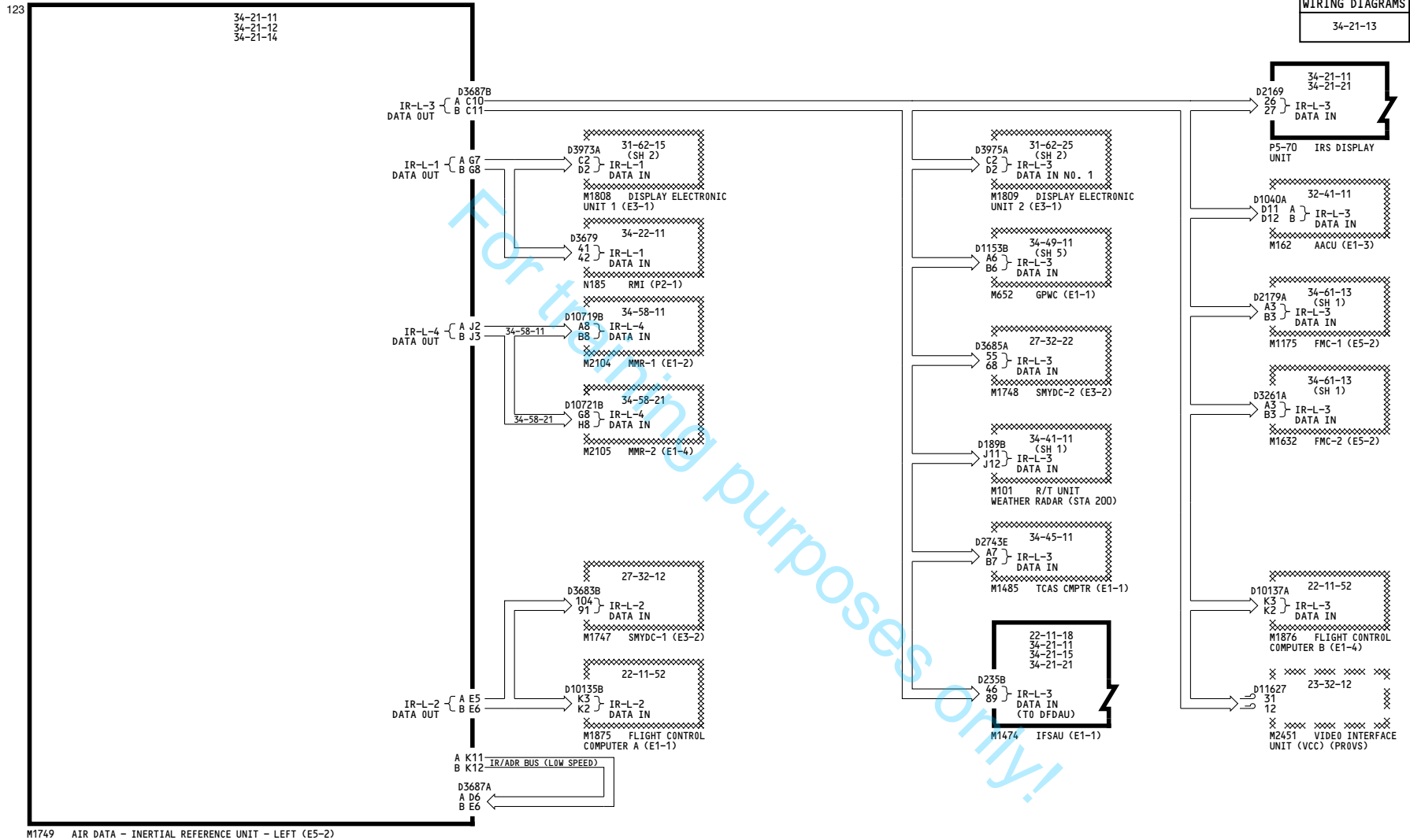
Incorporates  
34-1819

D280A238

**34-21-13**

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M1749 AIR DATA - INERTIAL REFERENCE UNIT - LEFT (E5-2)

YD007

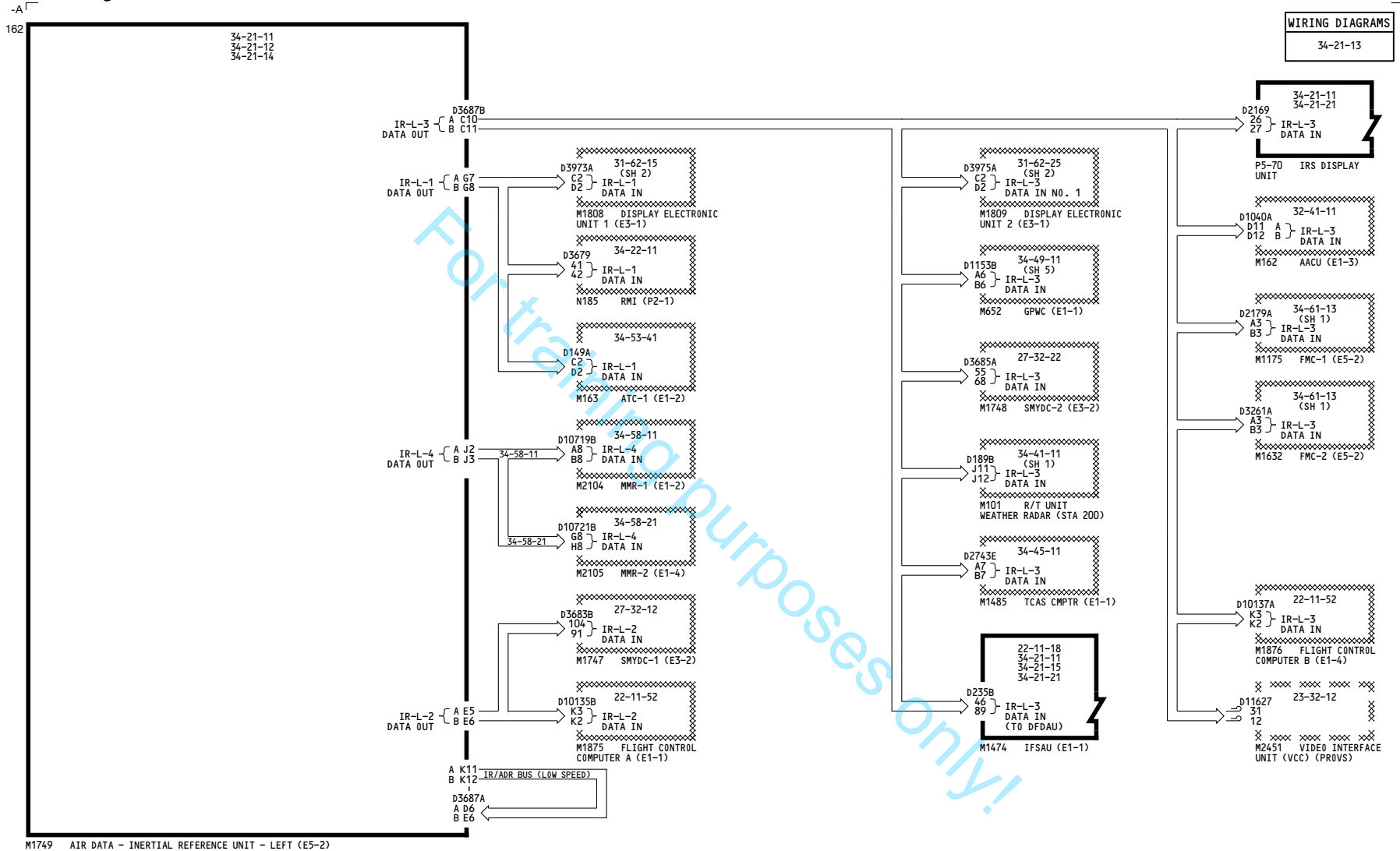
**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- LEFT IR OUTPUTS**

D280A238

**34-21-13**

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M1749 AIR DATA - INERTIAL REFERENCE UNIT - LEFT (E5-2)

YD007

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- LEFT IR OUTPUTS**

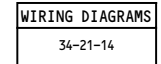
Incorporates  
34-1767 R01

D280A238

**34-21-13**

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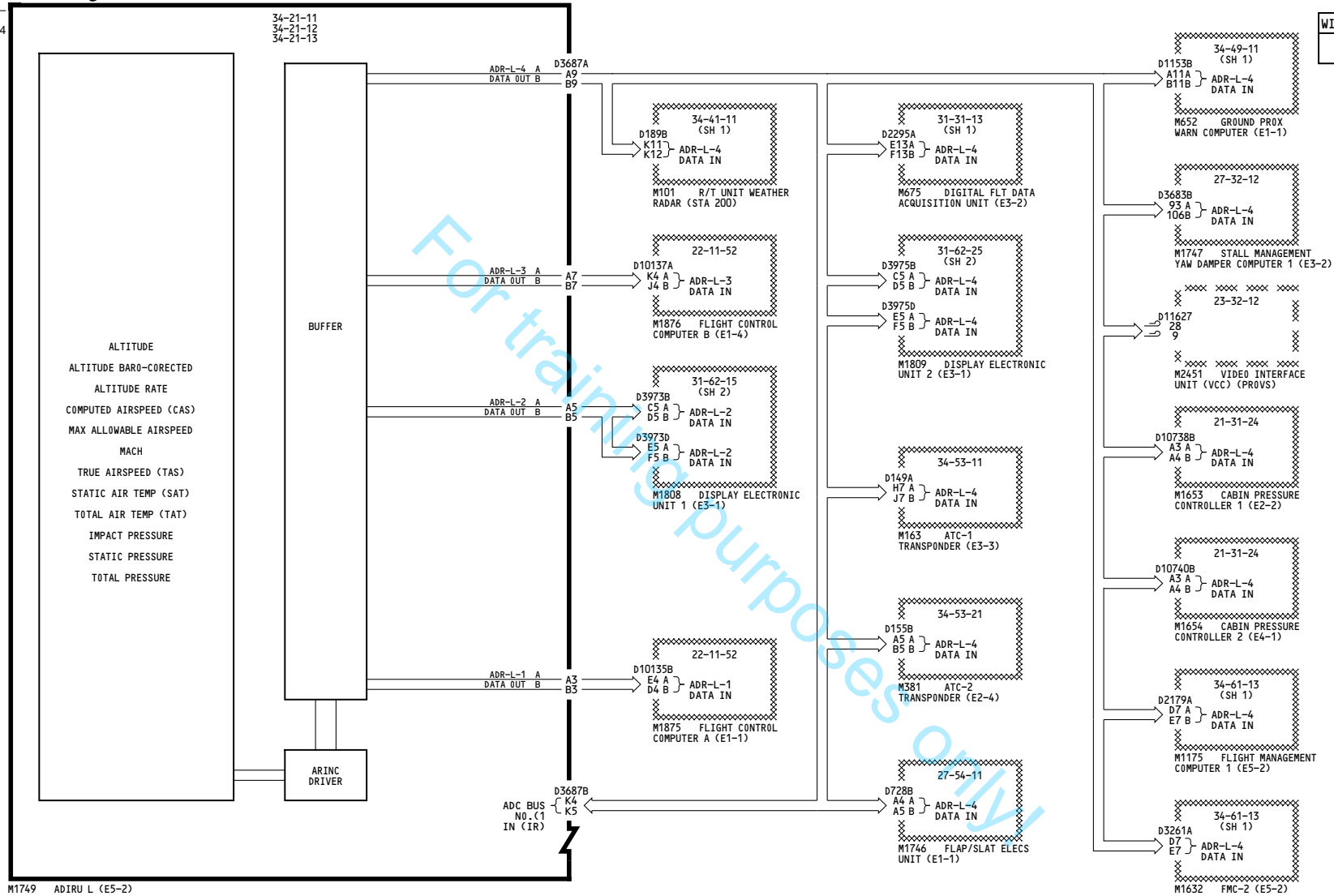
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WIRING DIAGRAMS  
34-21-14



M1749 ADIRU L (E5-2)

YD007

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- LEFT ADIR OUTPUTS**

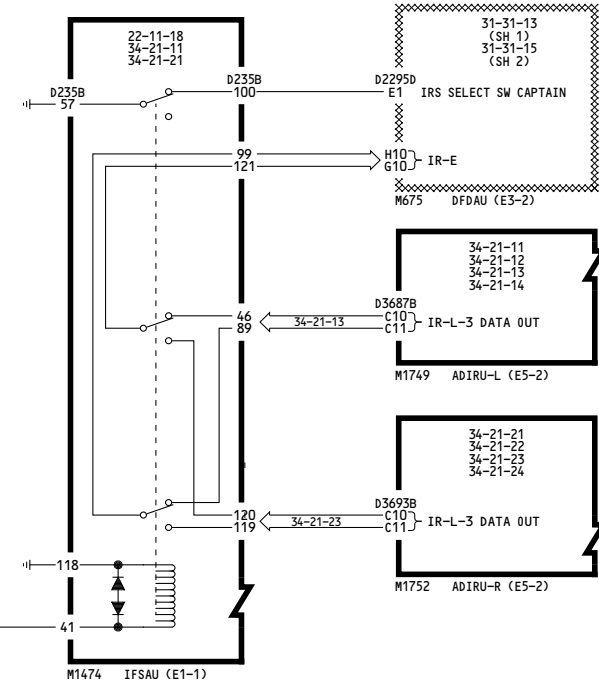
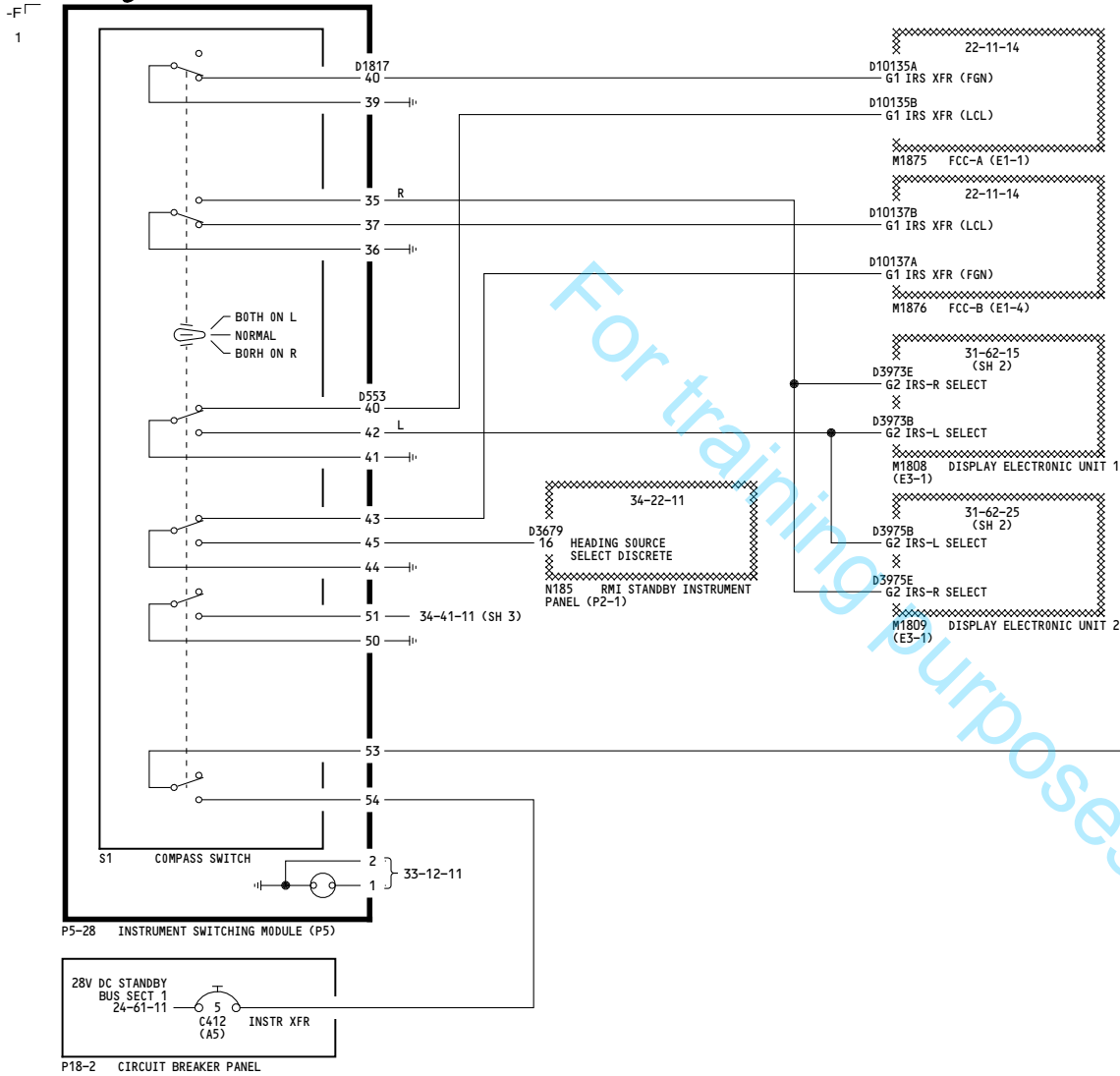
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**WIRING DIAGRAMS**  
34-21-15



ALL

**AIR DATA - INERTIAL  
REFERENCE SYSTEM INERTIAL  
REF SIGNAL SWITCHING**

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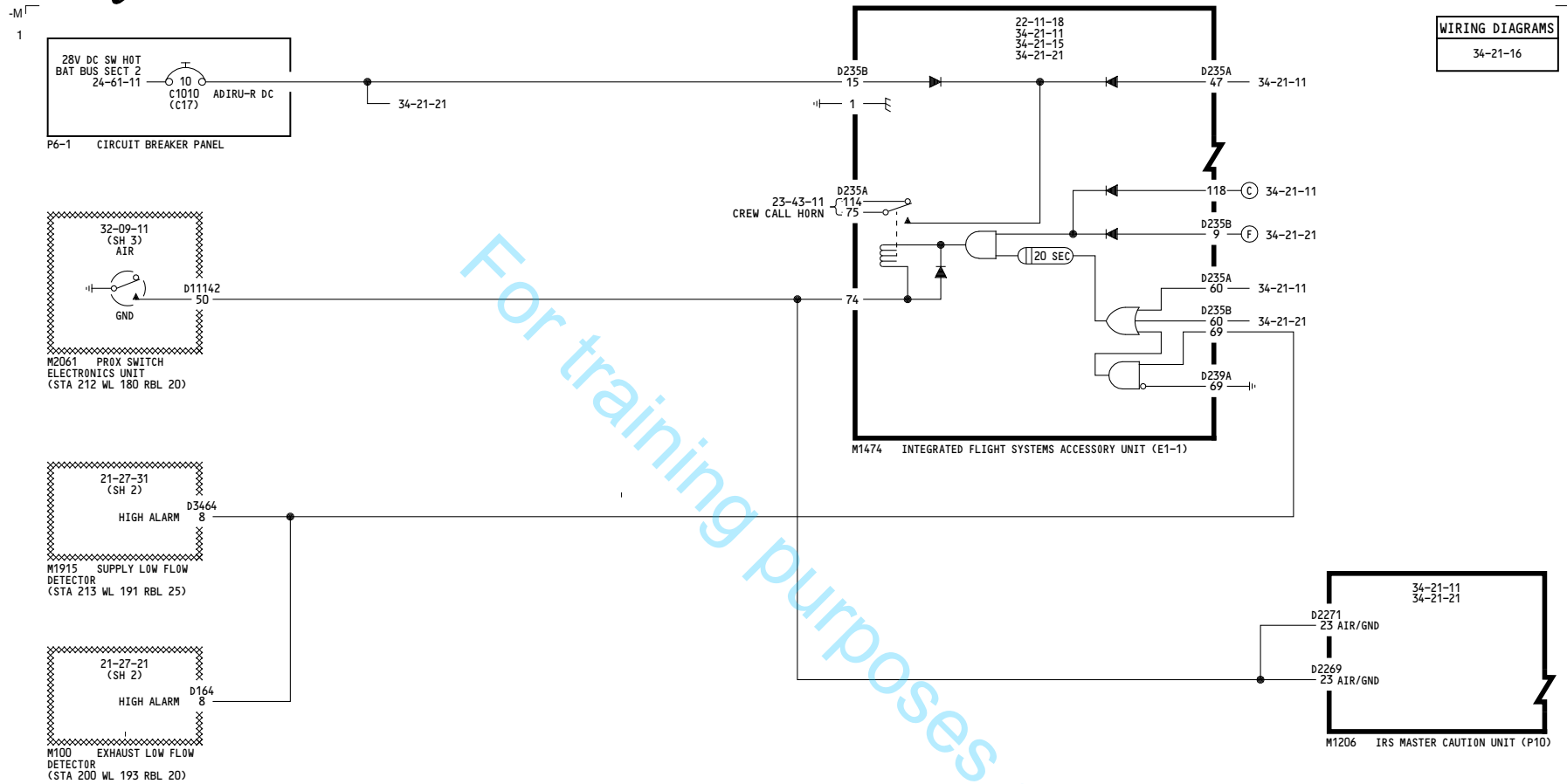
May 02/2008





## 737-800 SYSTEM SCHEMATIC MANUAL

WIRING DIAGRAMS  
34-21-16



ALL

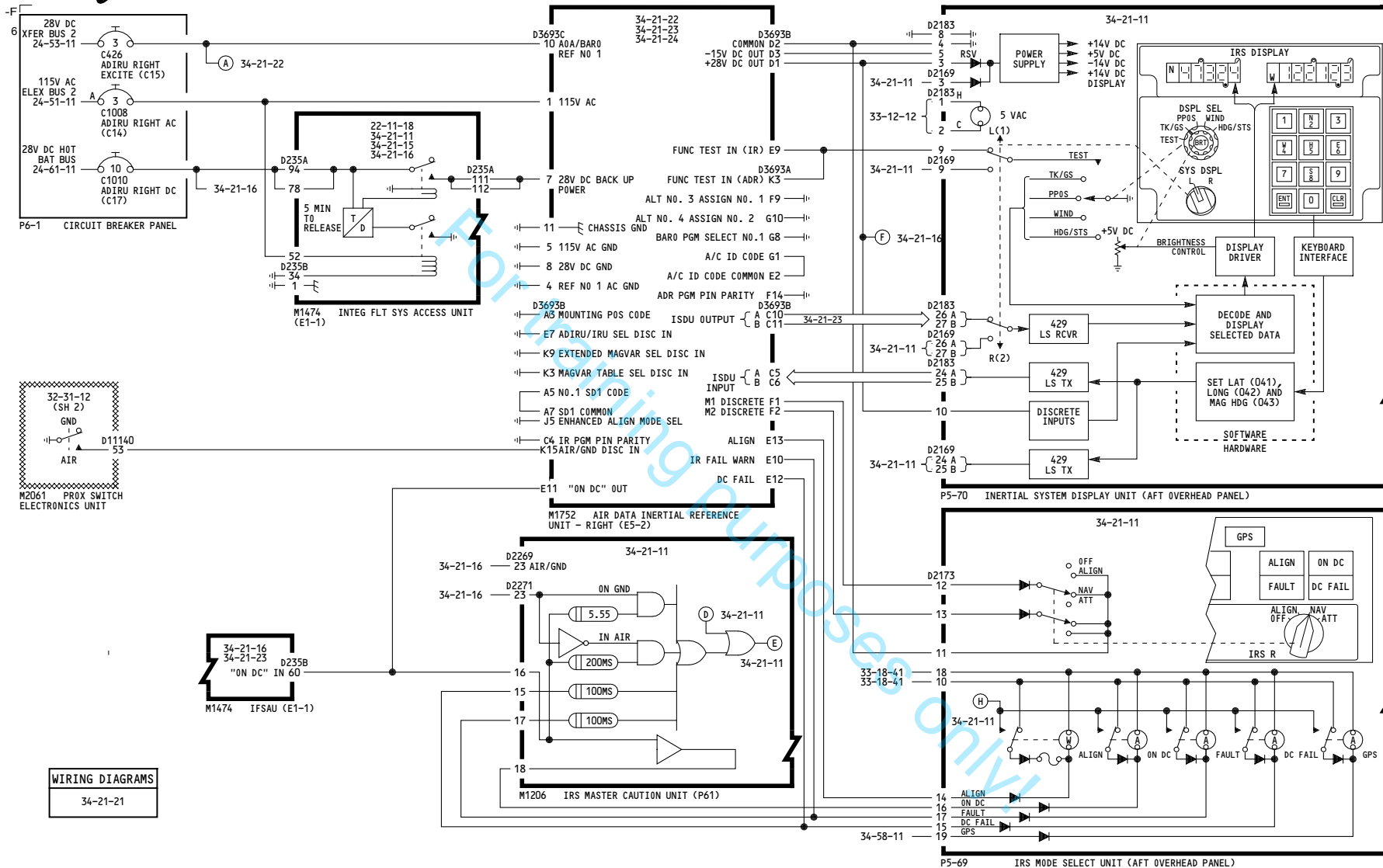
ADIRS - NO COOLING  
AND "ON DC" OPERATION  
WARNING

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34-21-16

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YD001-YD006

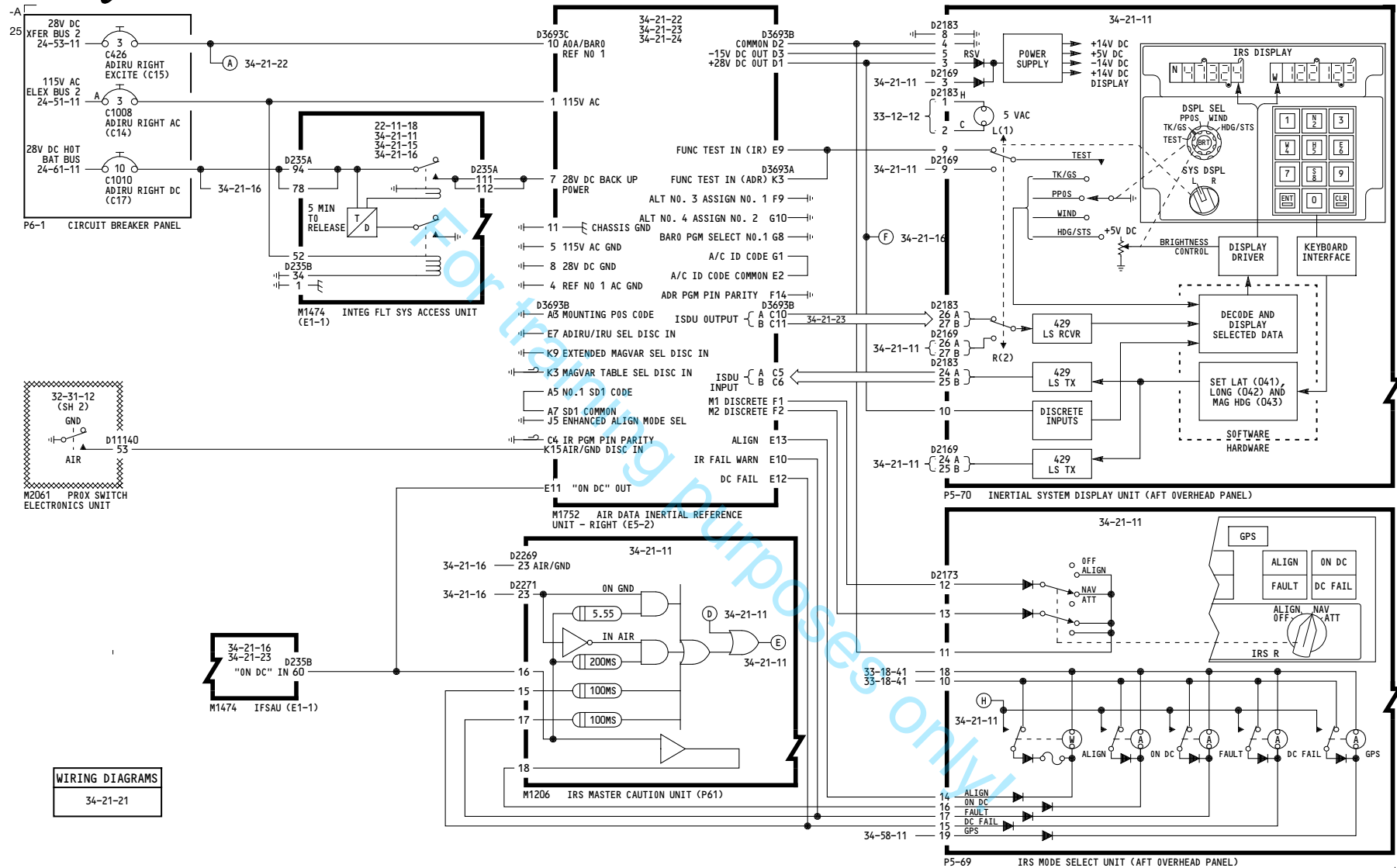
**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT CONTROL & WARNING**

D280A238

**34-21-21**

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**34-21-21**

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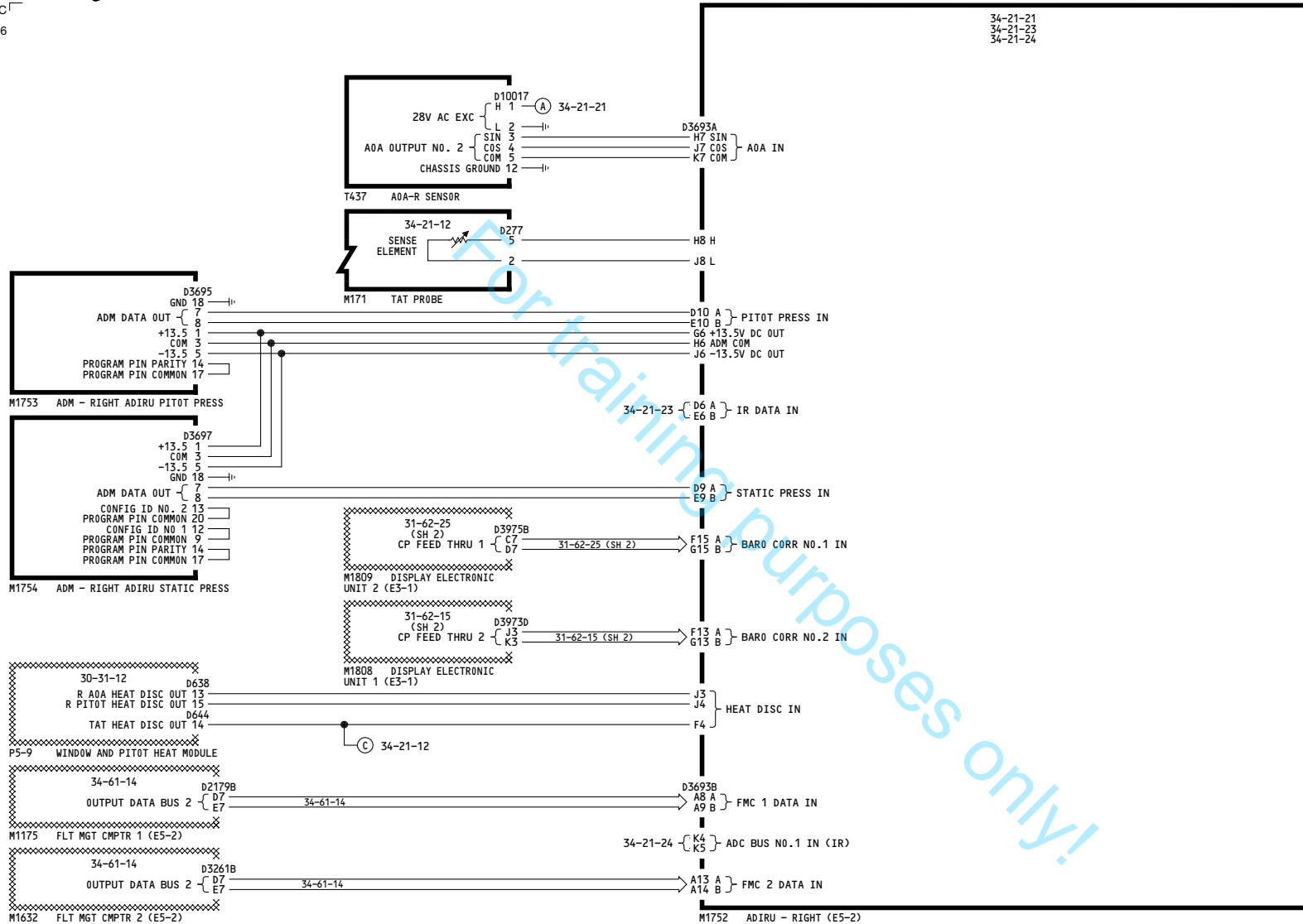
Jun 30/2009

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT CONTROL & WARNING**

D280A238

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WIRING DIAGRAMS  
34-21-22



ALL

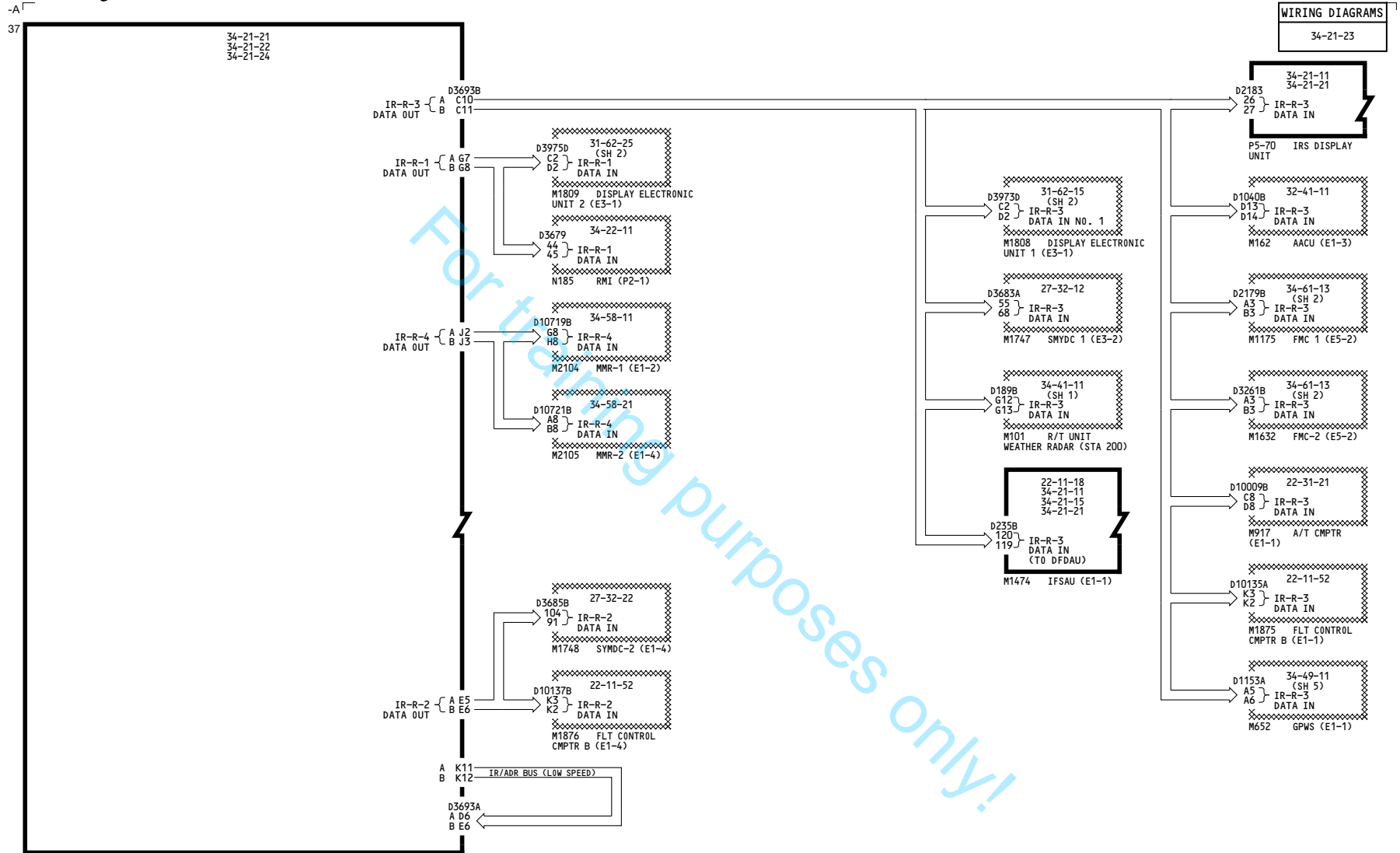
**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT SYSTEM INPUTS**

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YD001-YD006

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT IR OUTPUTS**

D280A238

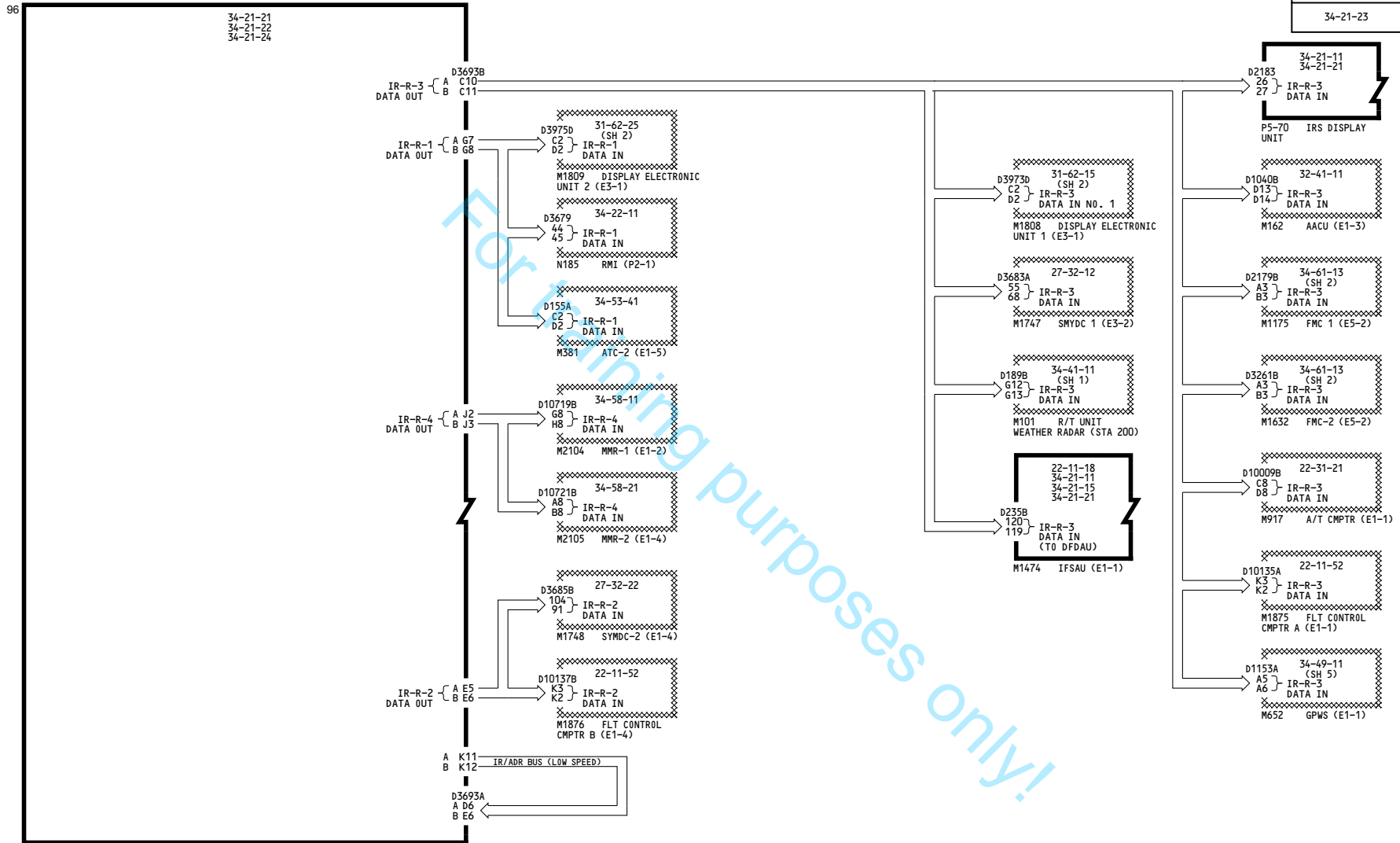
**34-21-23**

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**WIRING DIAGRAMS**

34-21-23



M1752 ADIRU RIGHT (E5-2)

YD001-YD005

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT IR OUTPUTS**

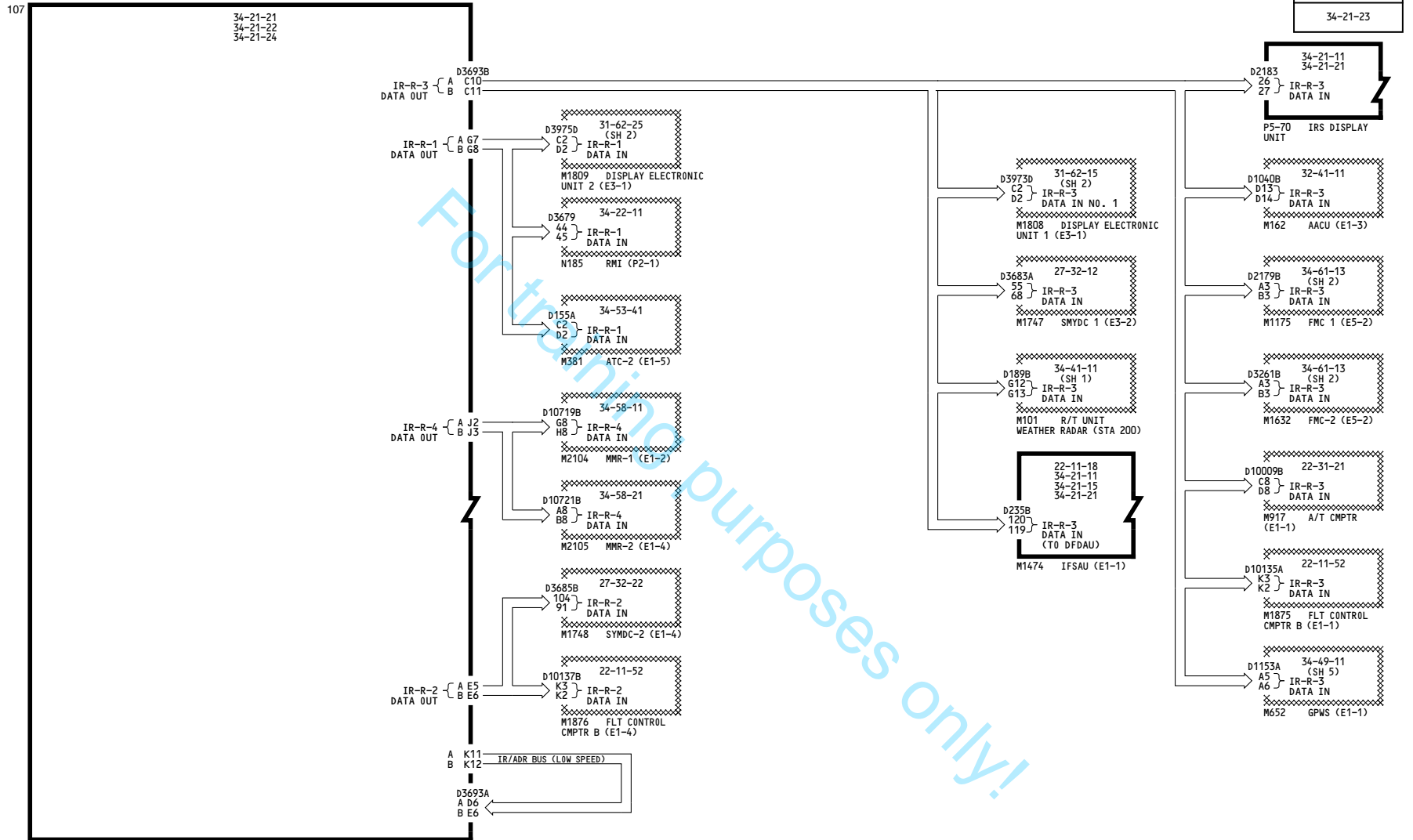
**Incorporates**  
34-1767 R01

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**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT IR OUTPUTS**

Incorporates  
34-1819

**34-21-23**

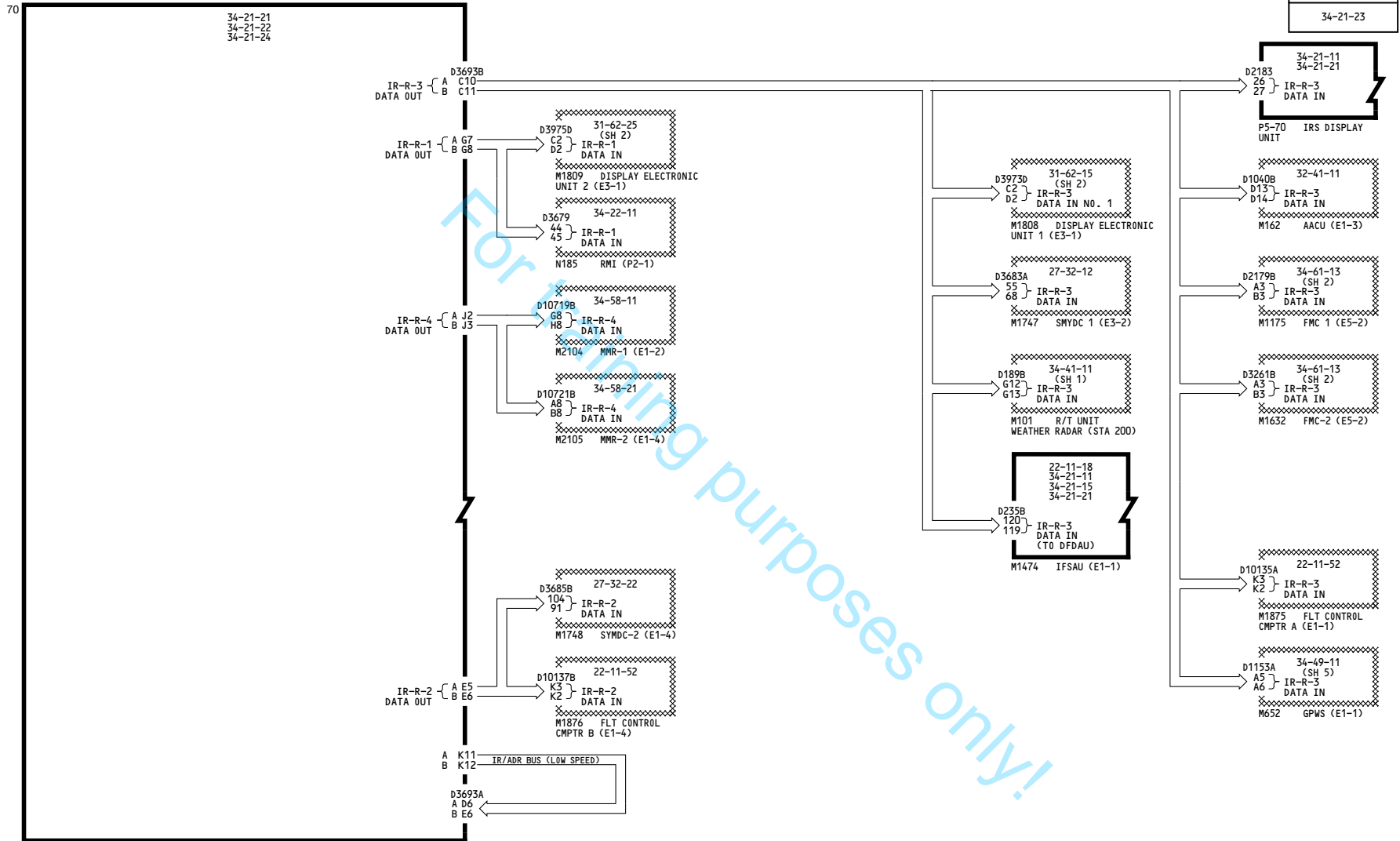
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**WIRING DIAGRAMS**

34-21-23



M1752 ADIRU RIGHT (E5-2)

YD007

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT IR OUTPUTS**

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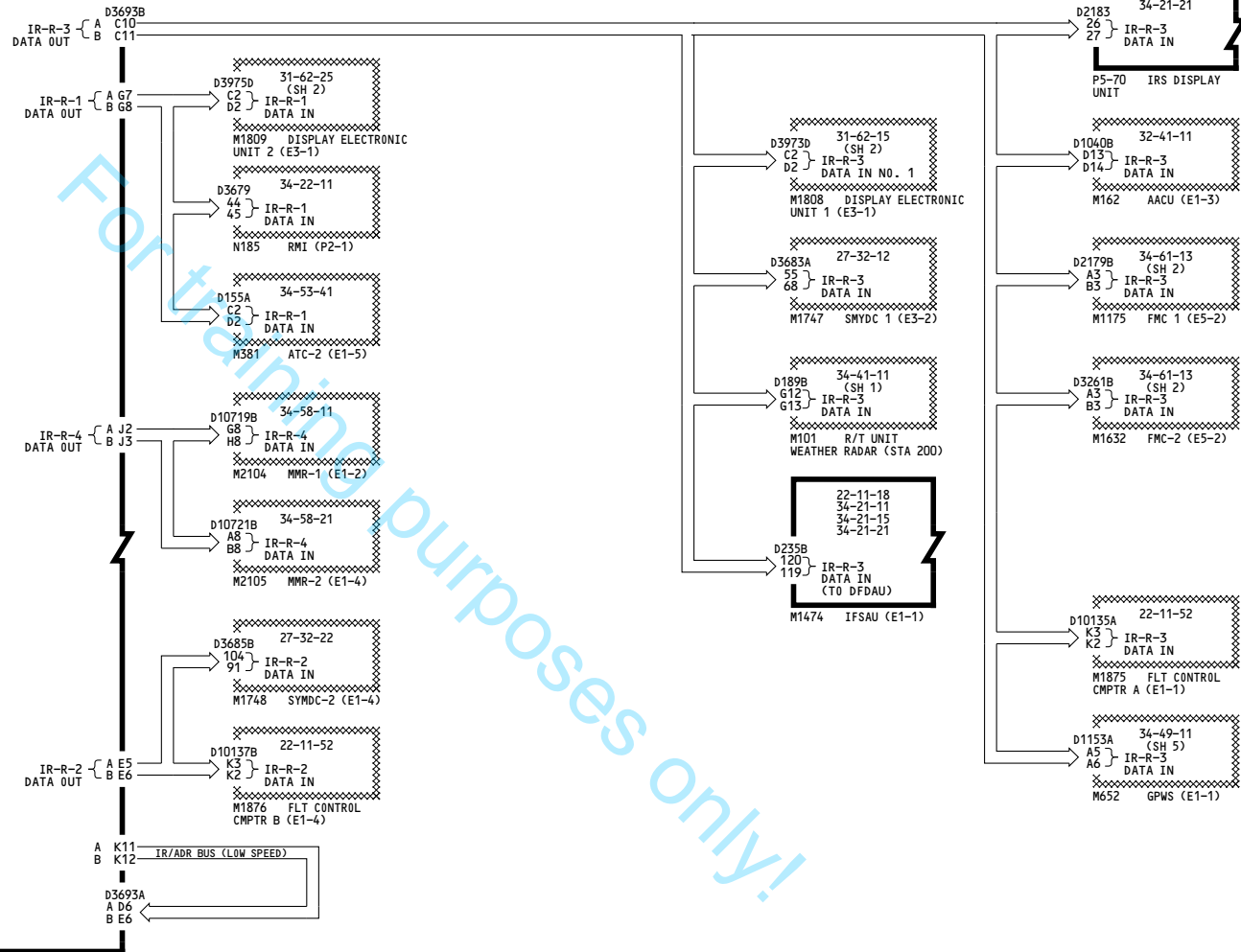
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WIRING DIAGRAMS  
34-21-23

34-21-21  
34-21-22  
34-21-24



M1752 ADIRU RIGHT (E5-2)

YD007

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT IR OUTPUTS**

Incorporates  
34-1767 R01

**34-21-23**

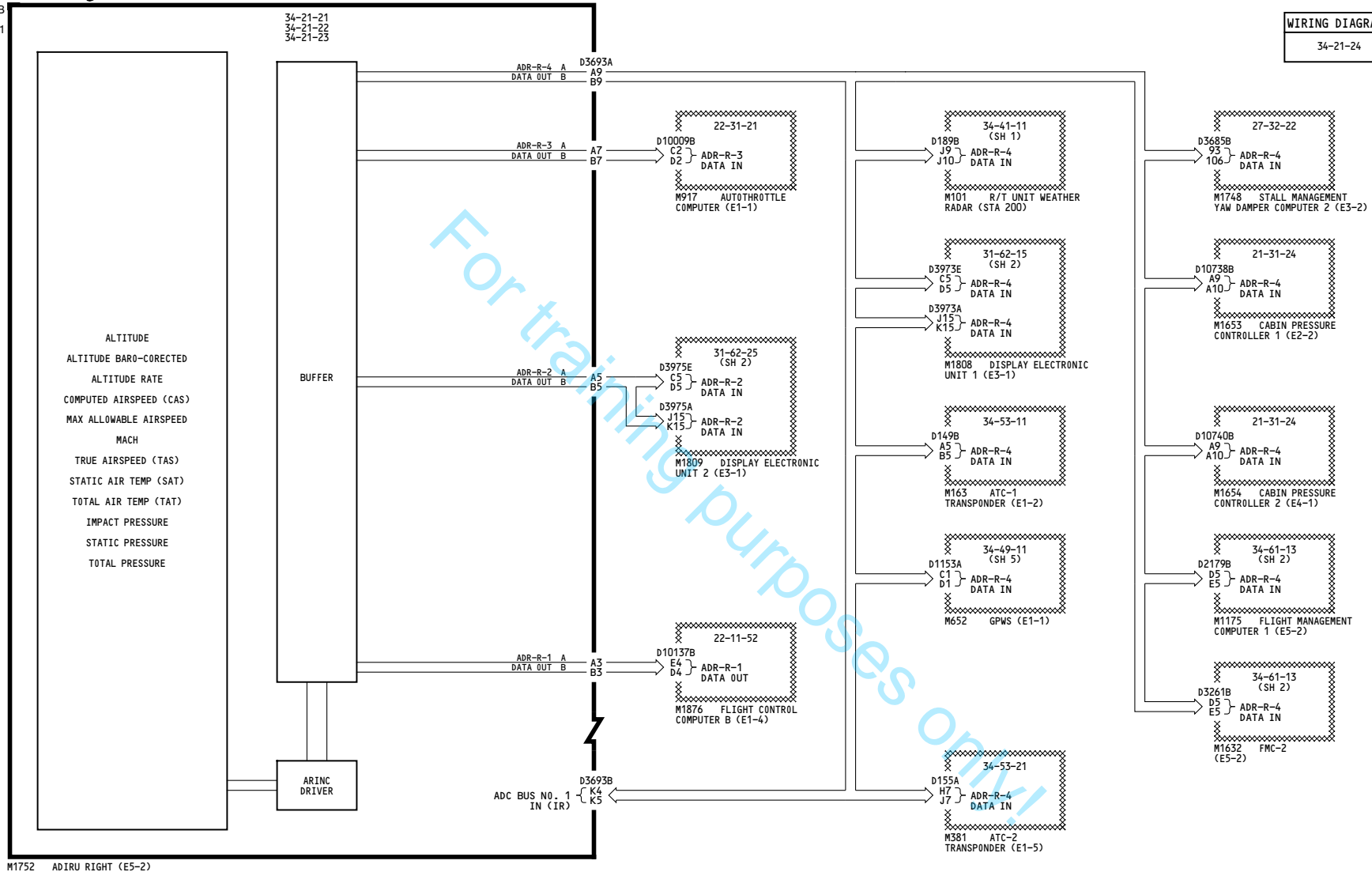
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WIRING DIAGRAMS  
34-21-24



M1752 ADIRU RIGHT (E5-2)

YD001-YD006

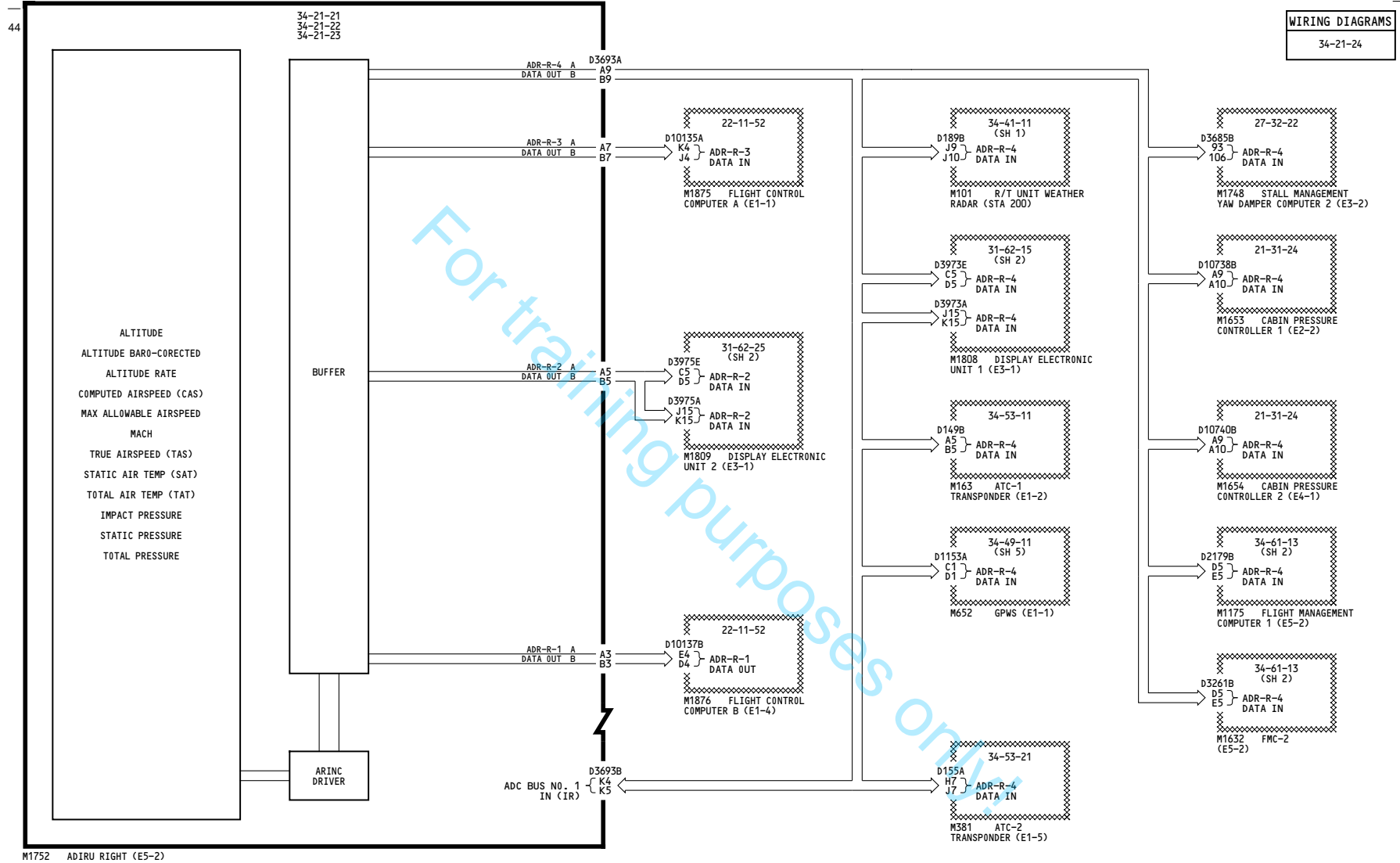
**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT ADR OUTPUTS**

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M1752 ADIRU RIGHT (E5-2)

YD007

**AIR DATA INERTIAL  
REFERENCE SYSTEM (ADIRS)  
- RIGHT ADIR OUTPUTS**

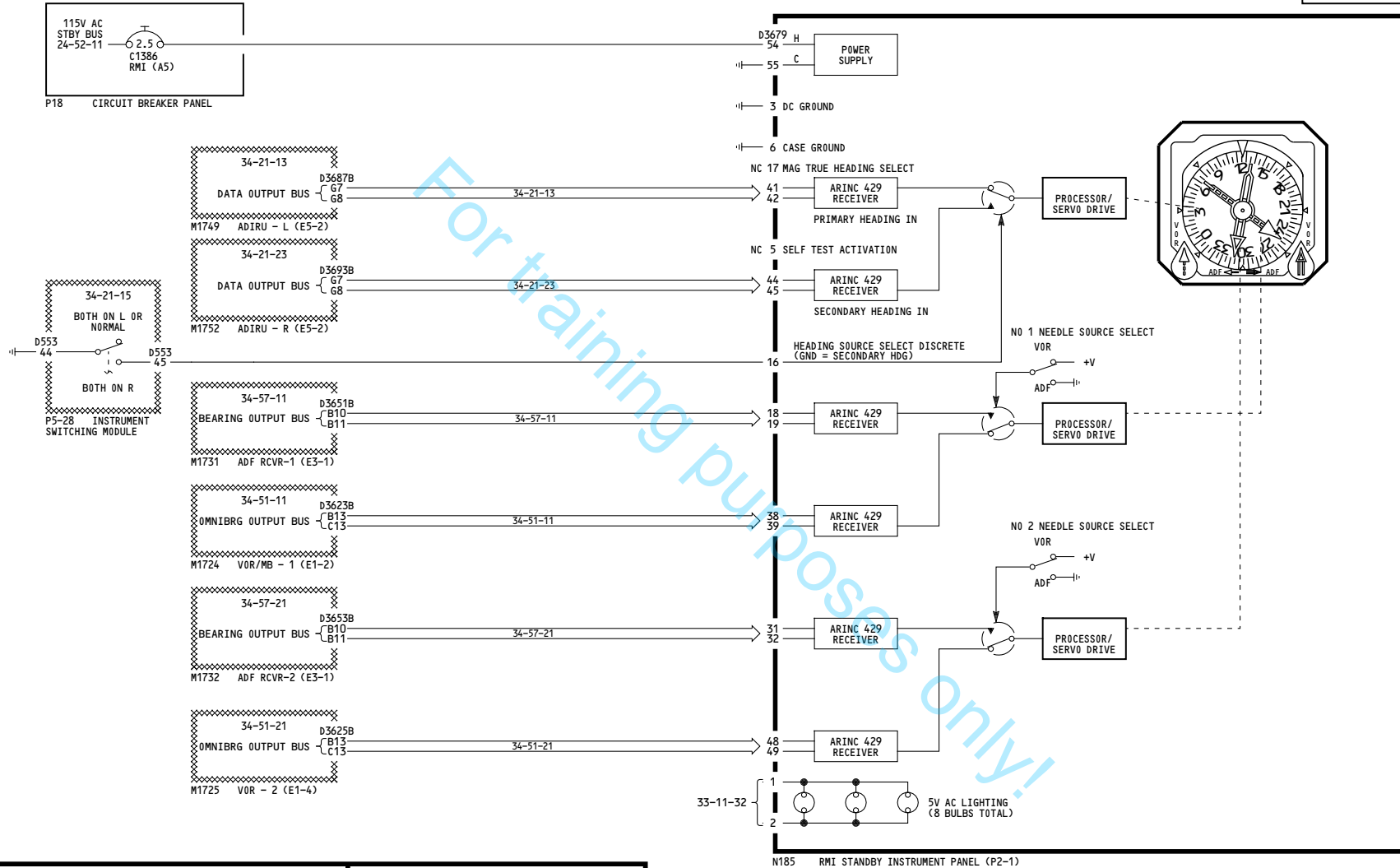
D280A238

**34-21-24**

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ALL

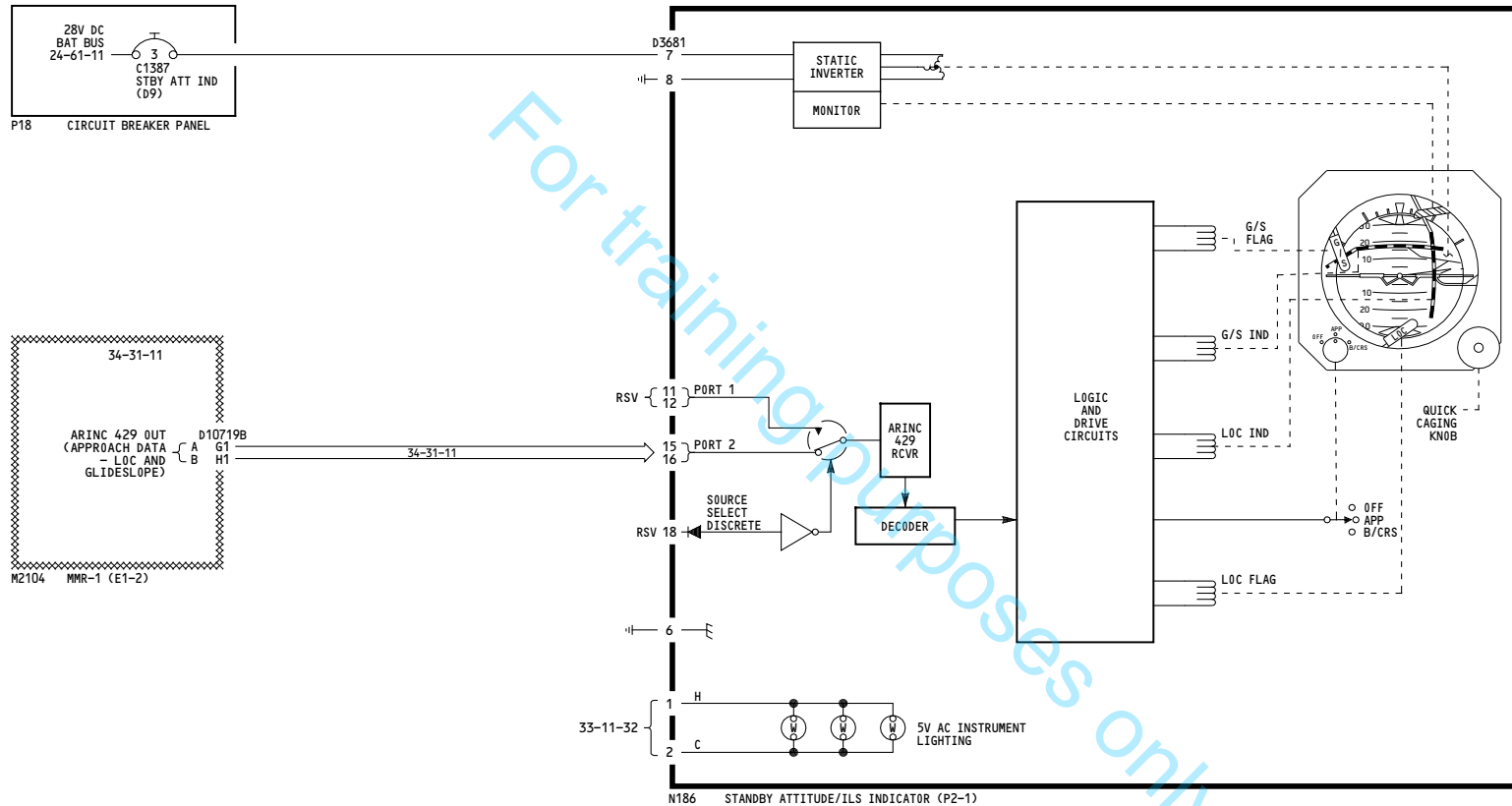
**RMI BEARING AND HEADING**

**34-22-11**

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ALL

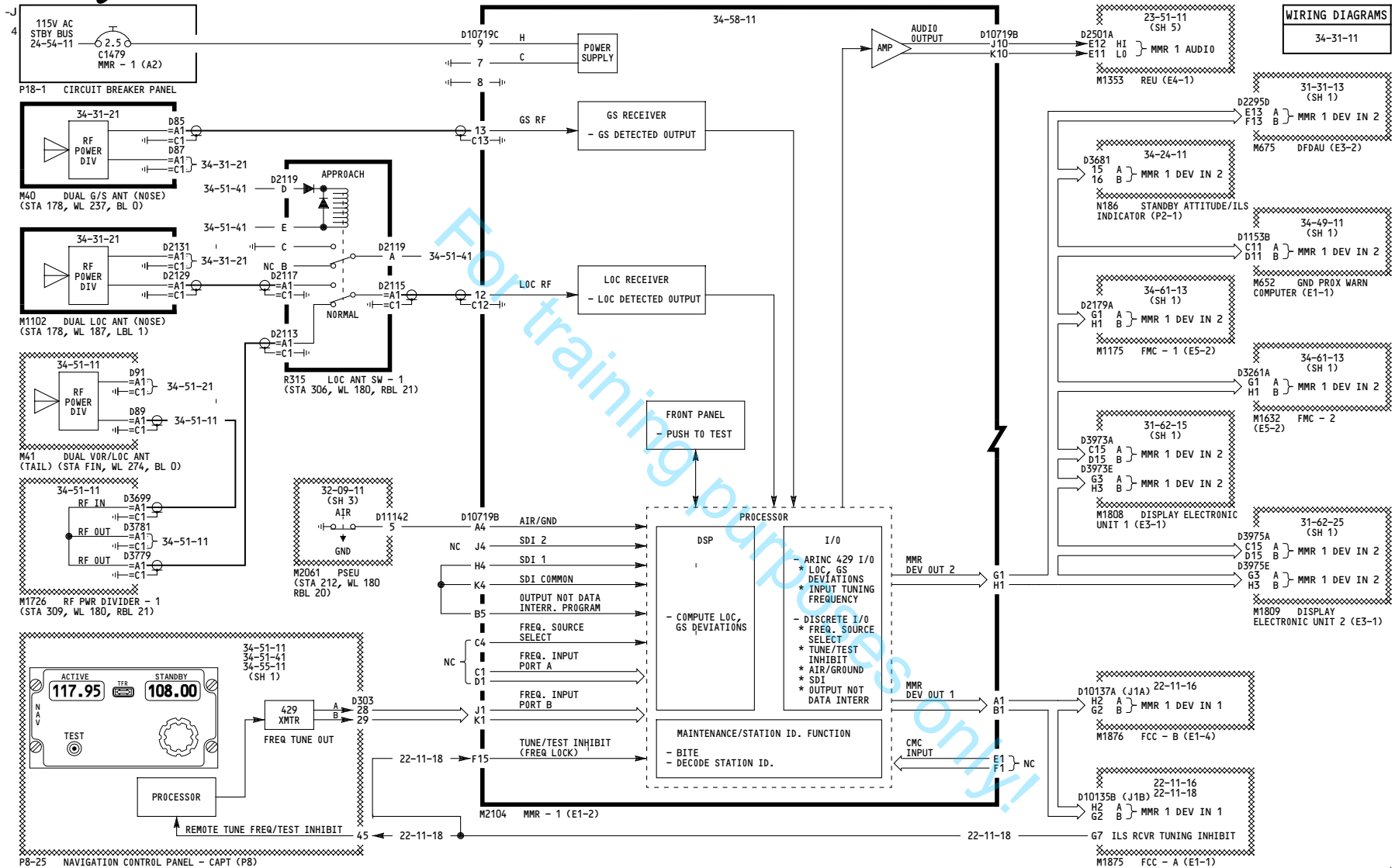
**STANDBY ATTITUDE - ILS**

D280A238

**34-24-11**

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YD001-YD007

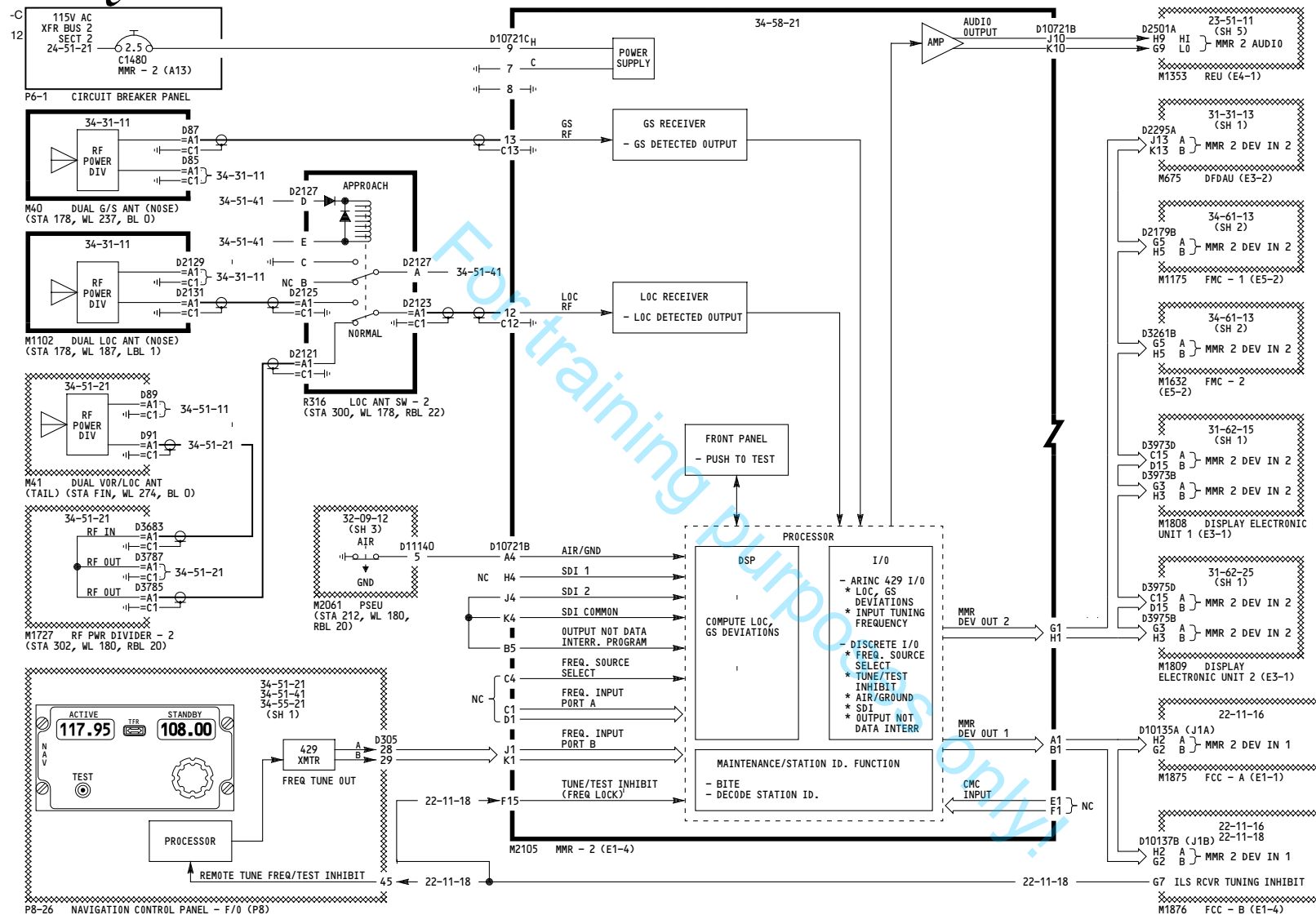
MMR - ILS NO. 1

**34-31-11**

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YD001-YD005

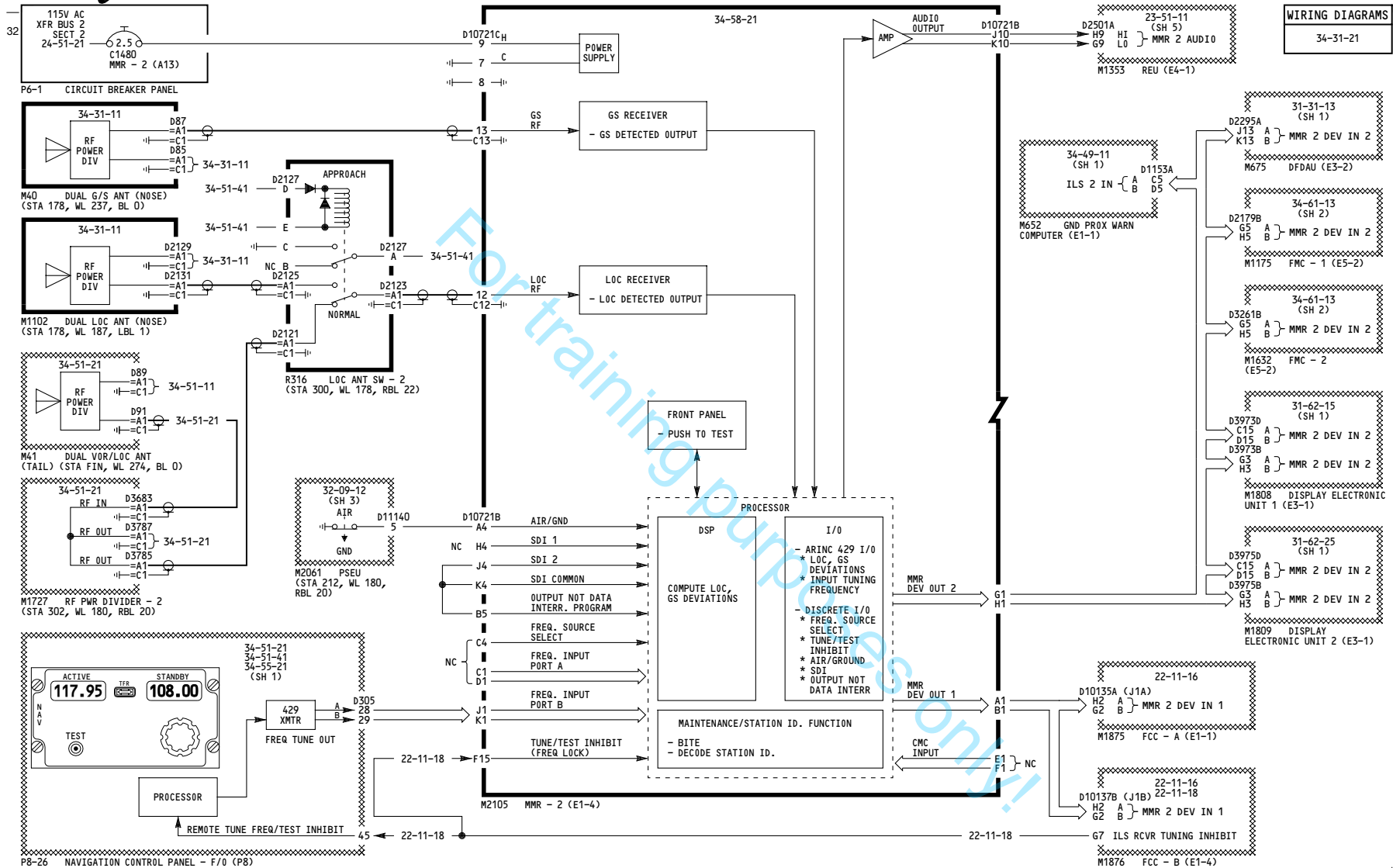
MMR - ILS NO. 2

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YD006-YD007

MMR - ILS NO. 2

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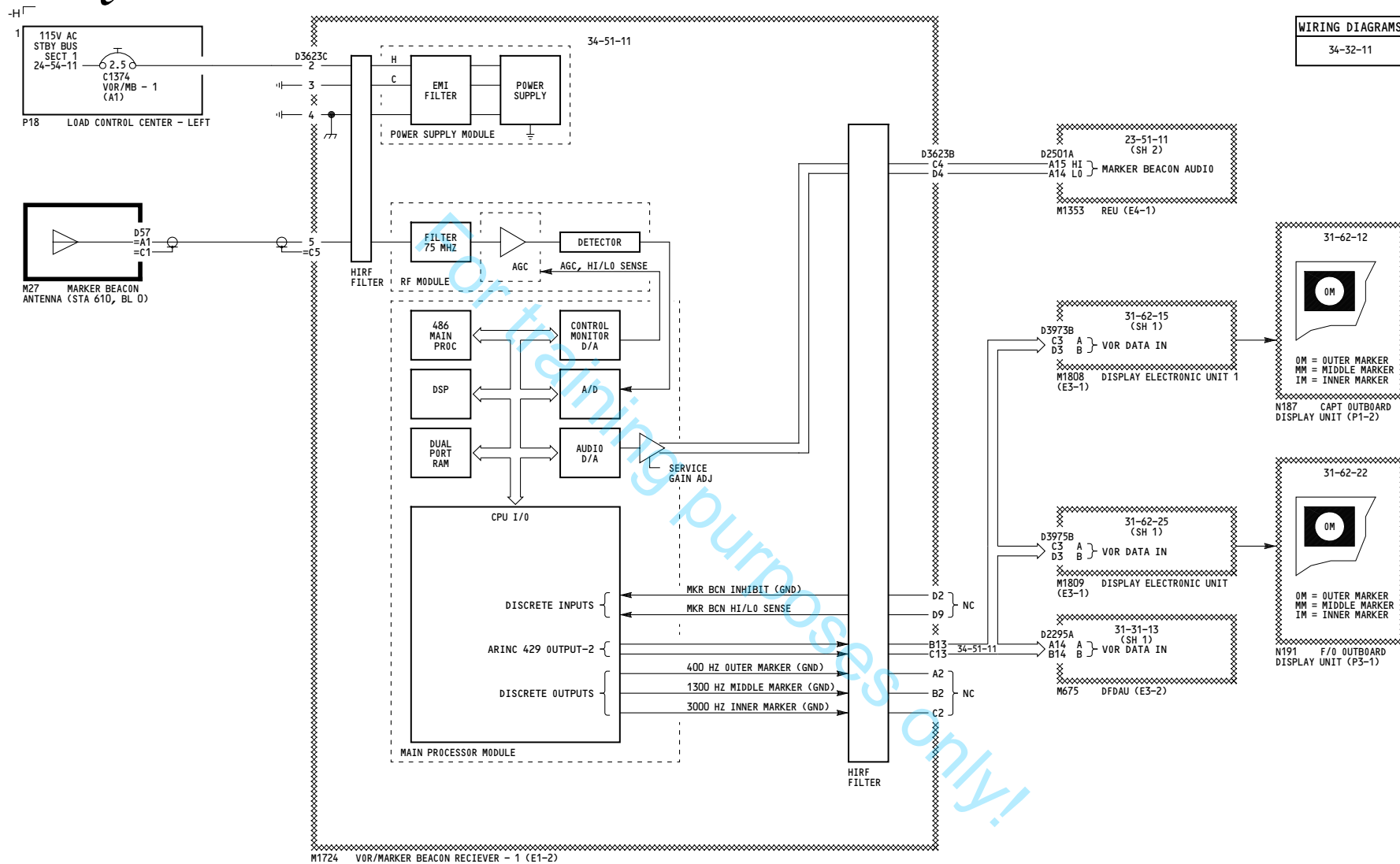
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## WIRING DIAGRAMS

### 34-32-11



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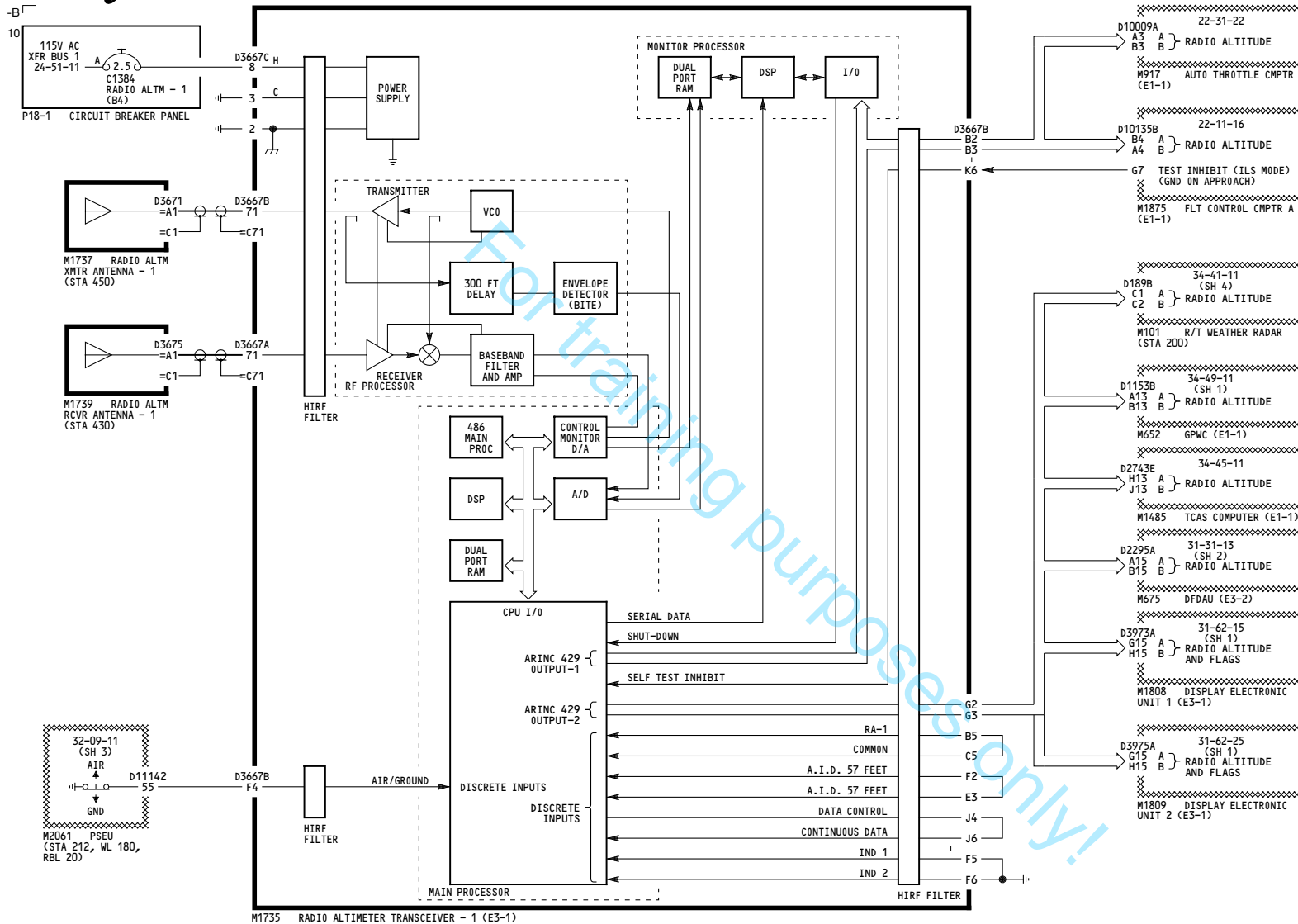
MARKER BEACON

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WIRING DIAGRAMS
34-33-11

**34-33-11**

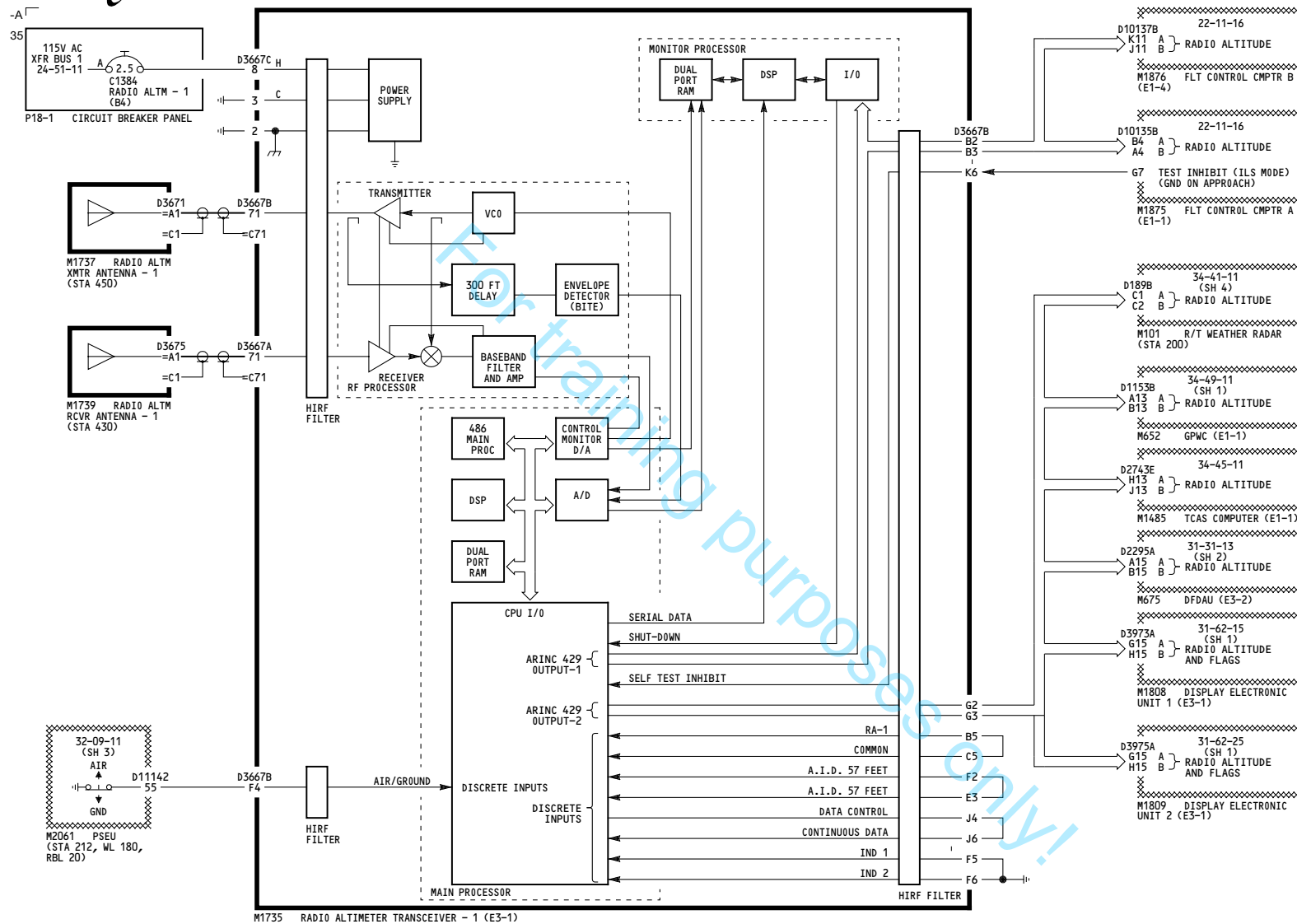
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YD001-YD006

## RADIO ALTIMETER - 1

D280A238

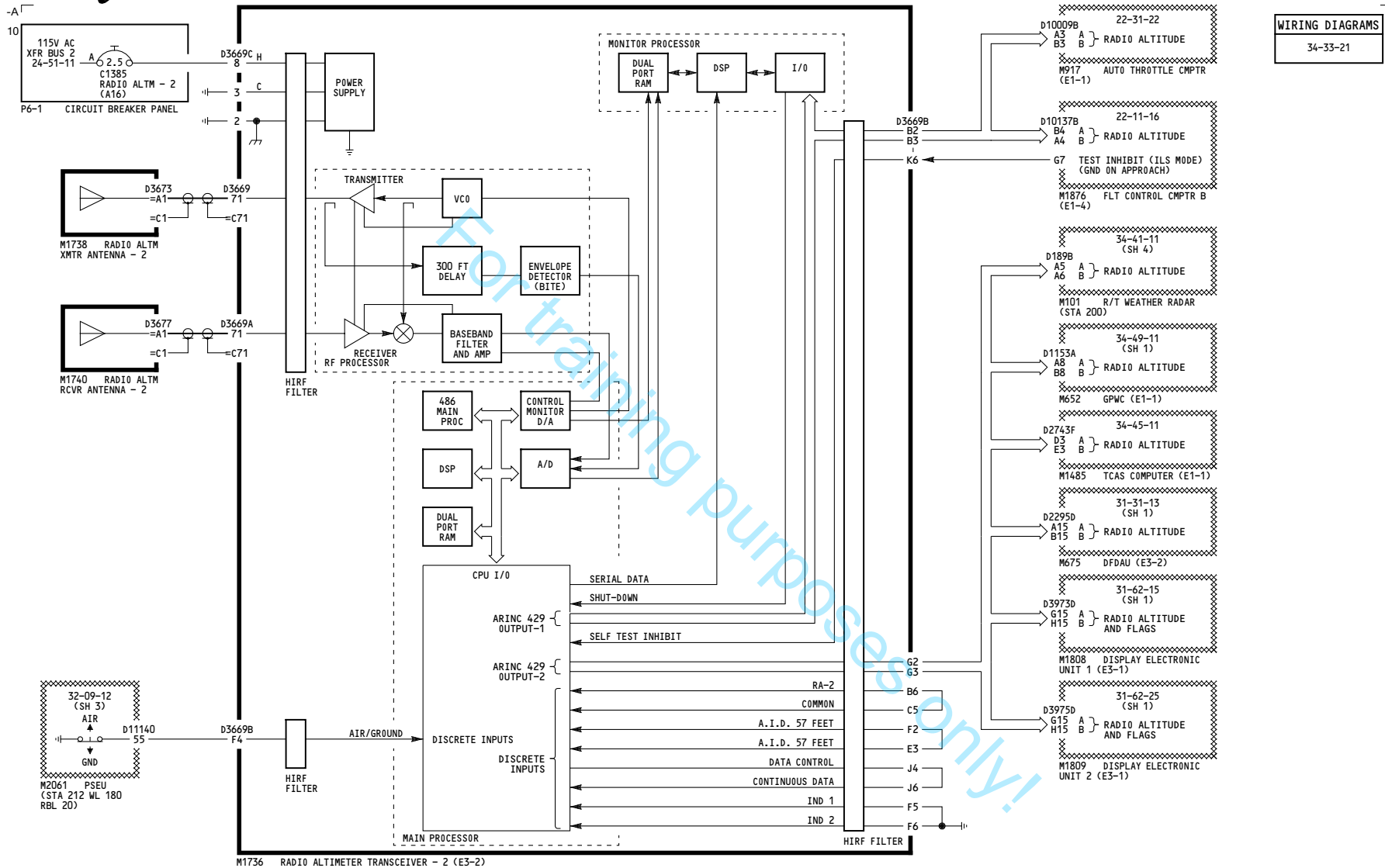


WIRING DIAGRAMS
34-33-11

**34-33-11**

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YD001-YD006

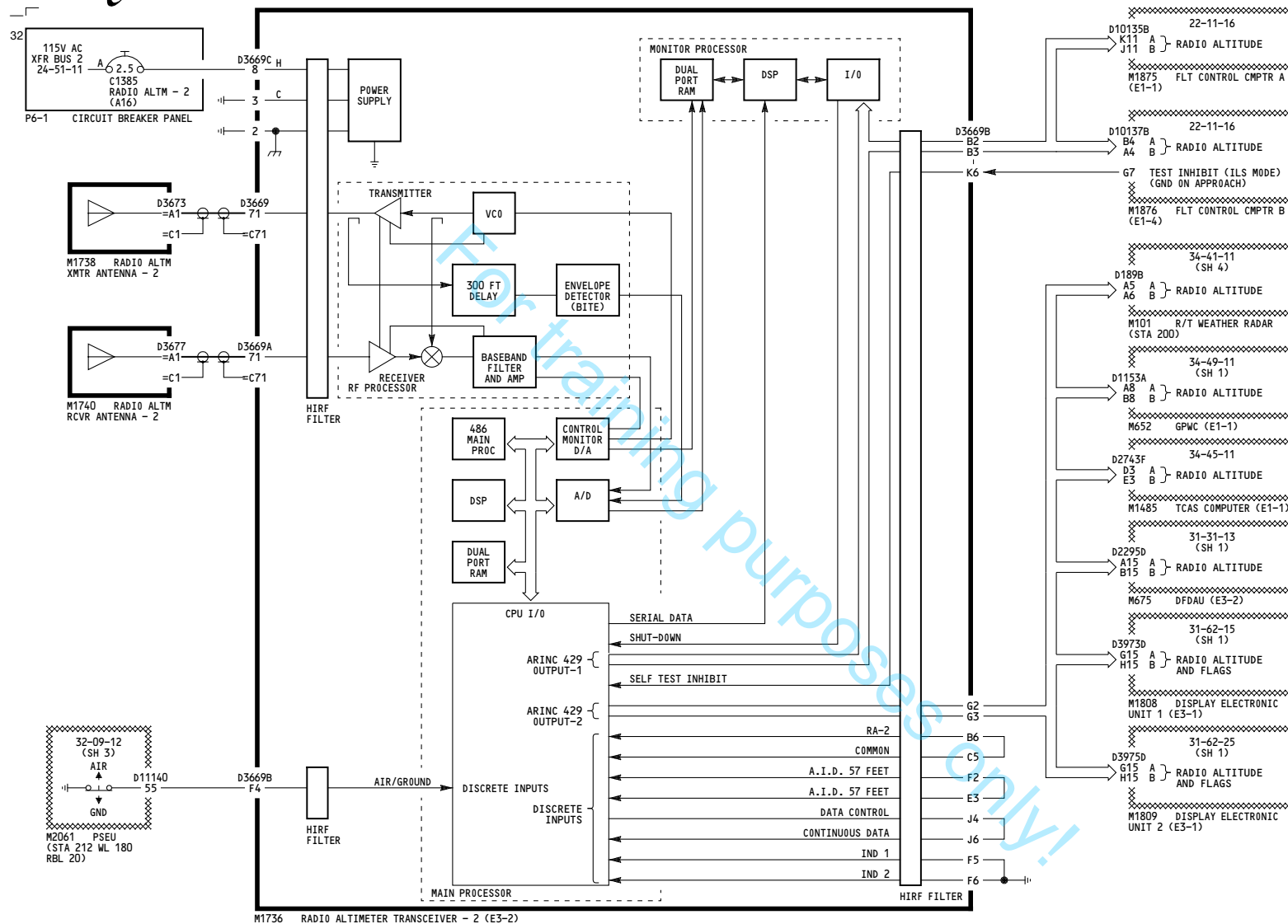
**RADIO ALTIMETER - 2**

D280A238

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YD007-YD020

**RADIO ALTIMETER - 2**

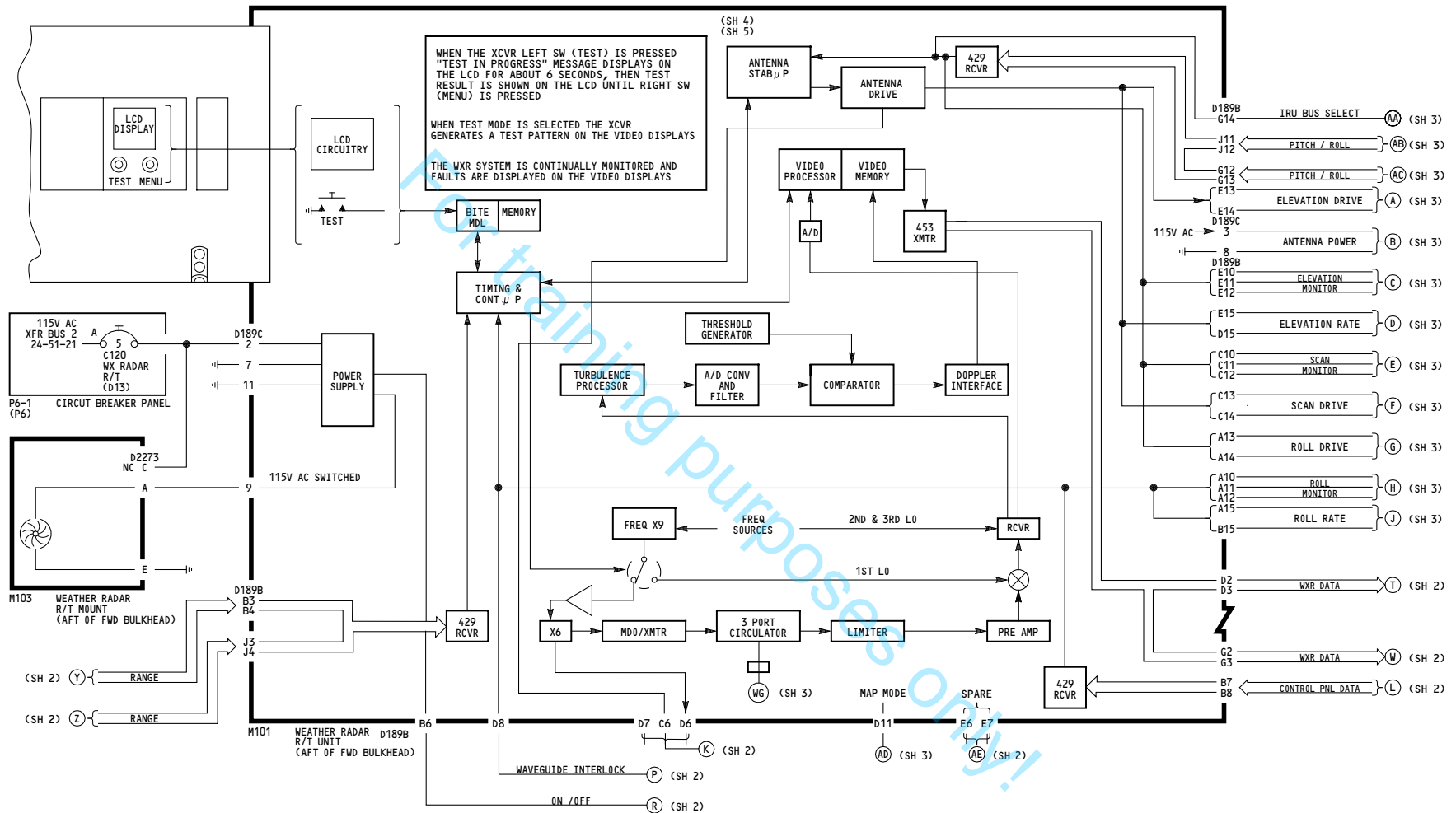
D280A238

**34-33-21**

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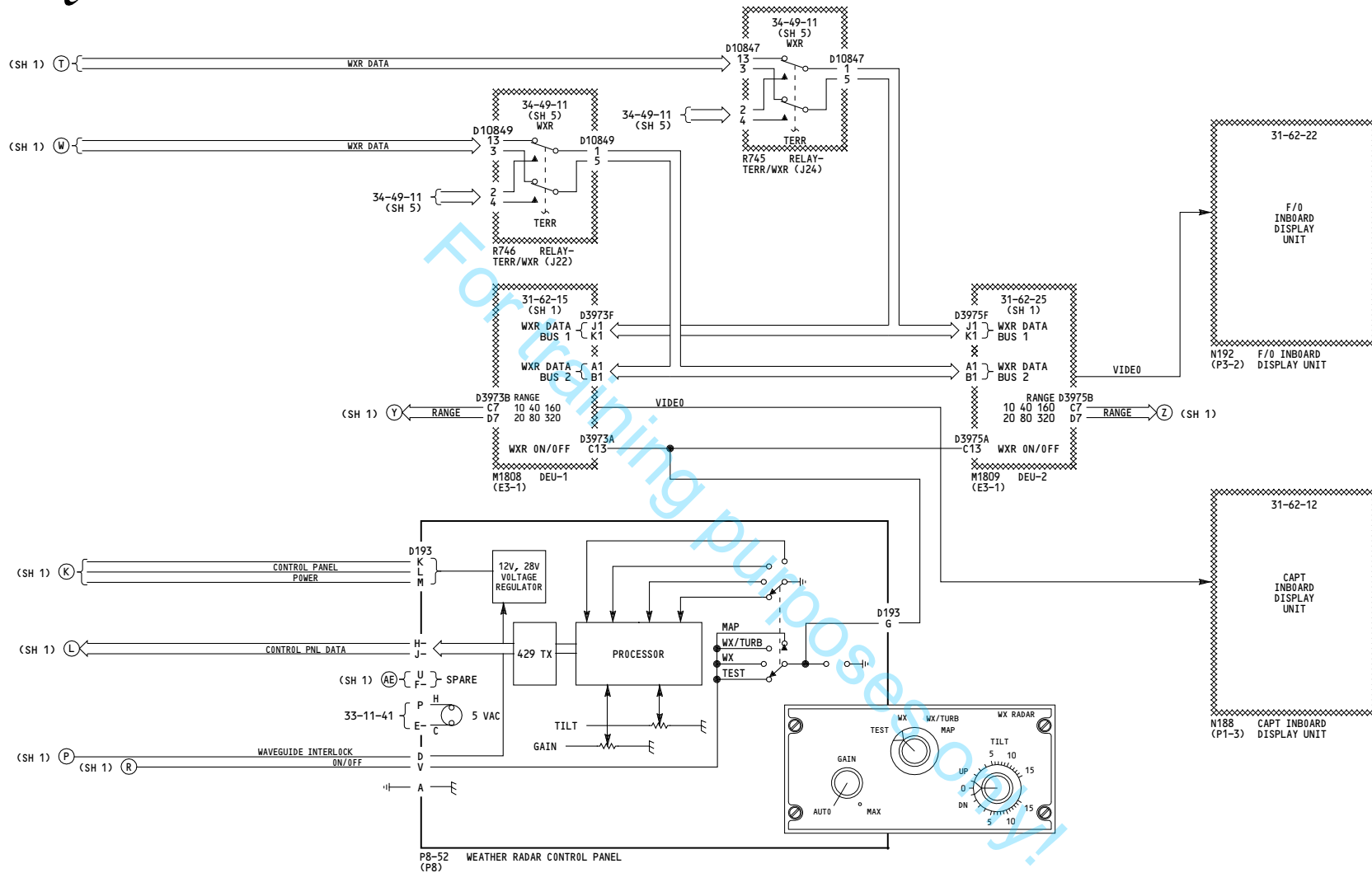
**WEATHER RADAR SYSTEM**

D280A238

**34-41-11**

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ALL

**WEATHER RADAR SYSTEM**

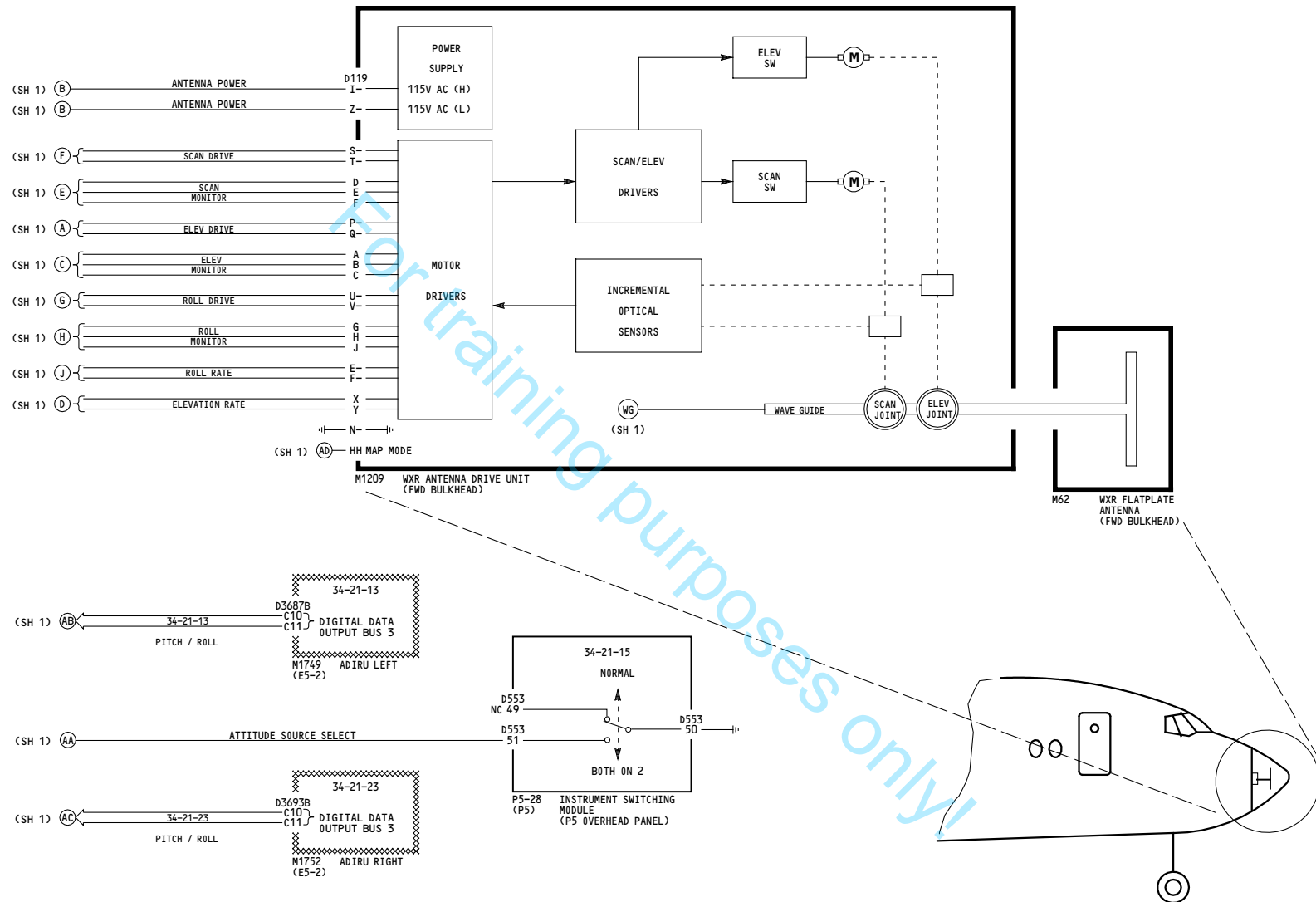
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**34-41-11**

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2



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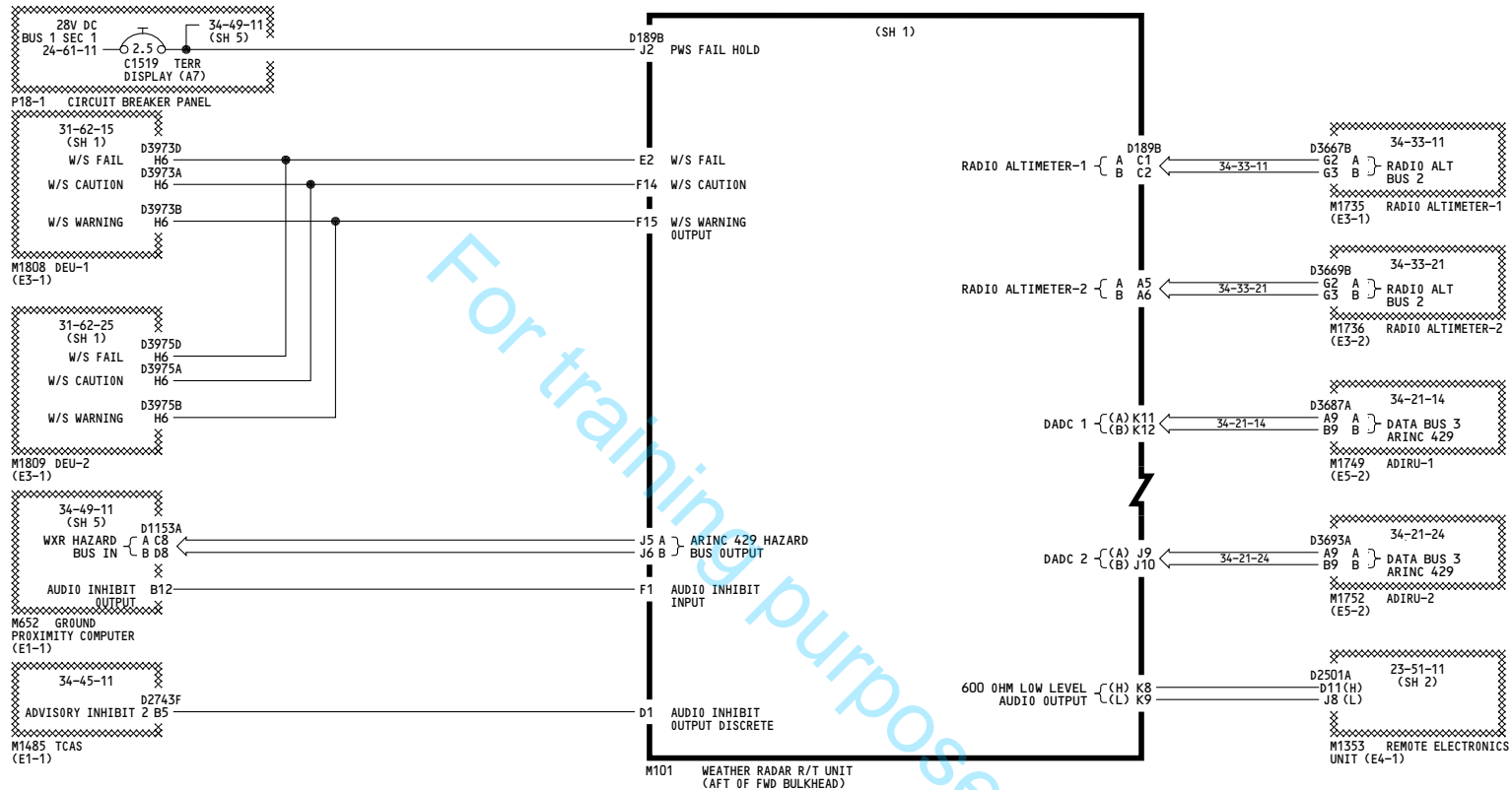
**WEATHER RADAR SYSTEM**

D280A238

**34-41-11**

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Sheet 3  
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3



ALL

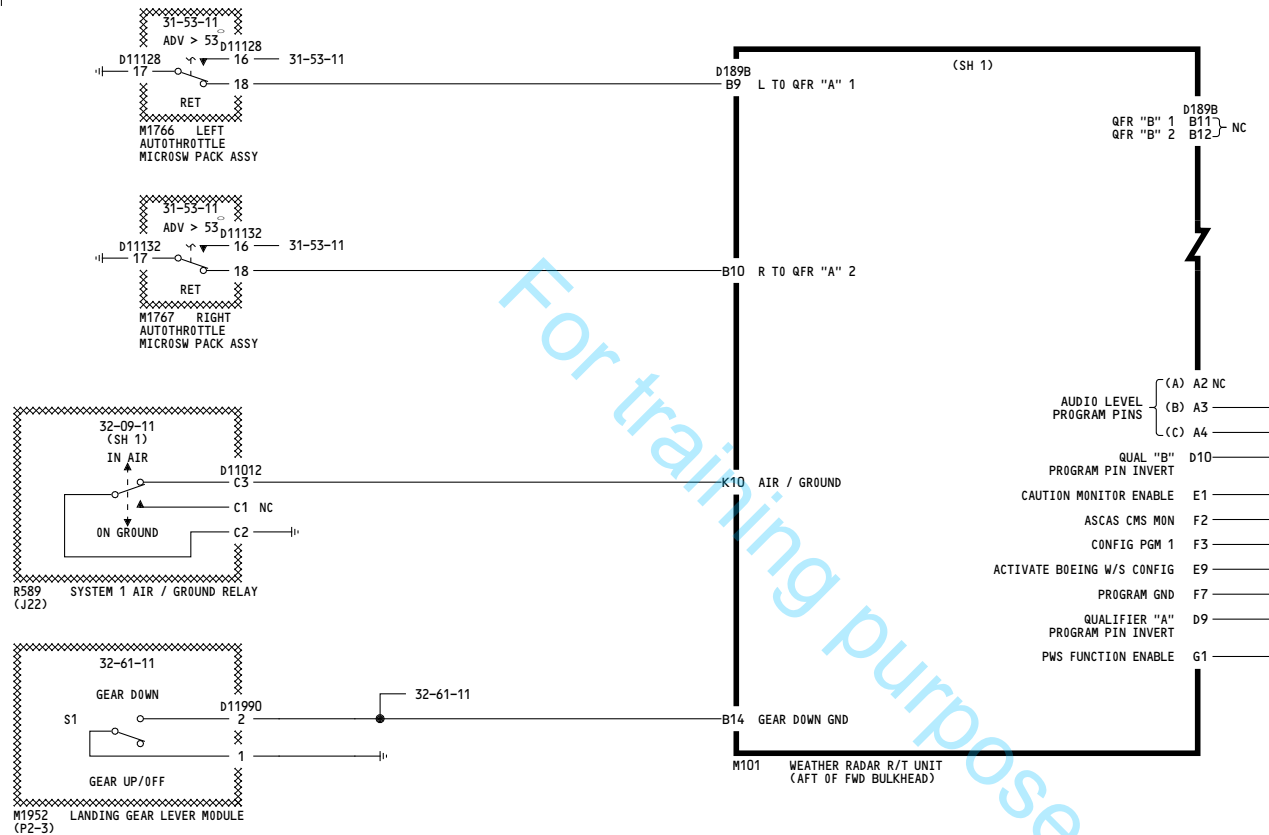
**WEATHER RADAR SYSTEM**

D280A238

**34-41-11**

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Sheet 4  
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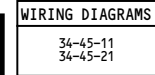
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ALL	WEATHER RADAR SYSTEM
	D280A238

**34-41-11**

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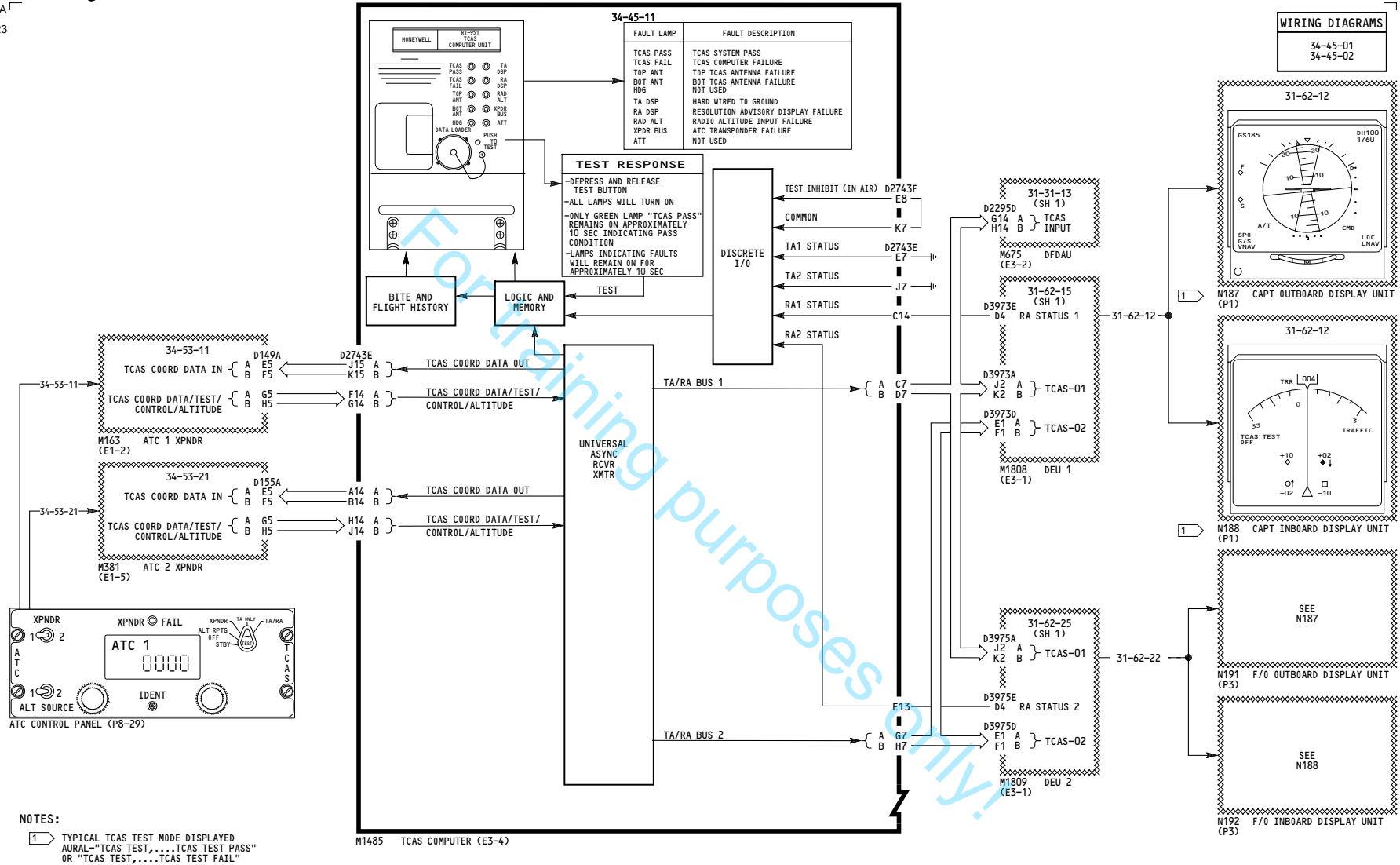
## TRAFFIC COLLISION AVOIDANCE SYSTEM POWER INPUT, OUTPUT

**34-45-11**

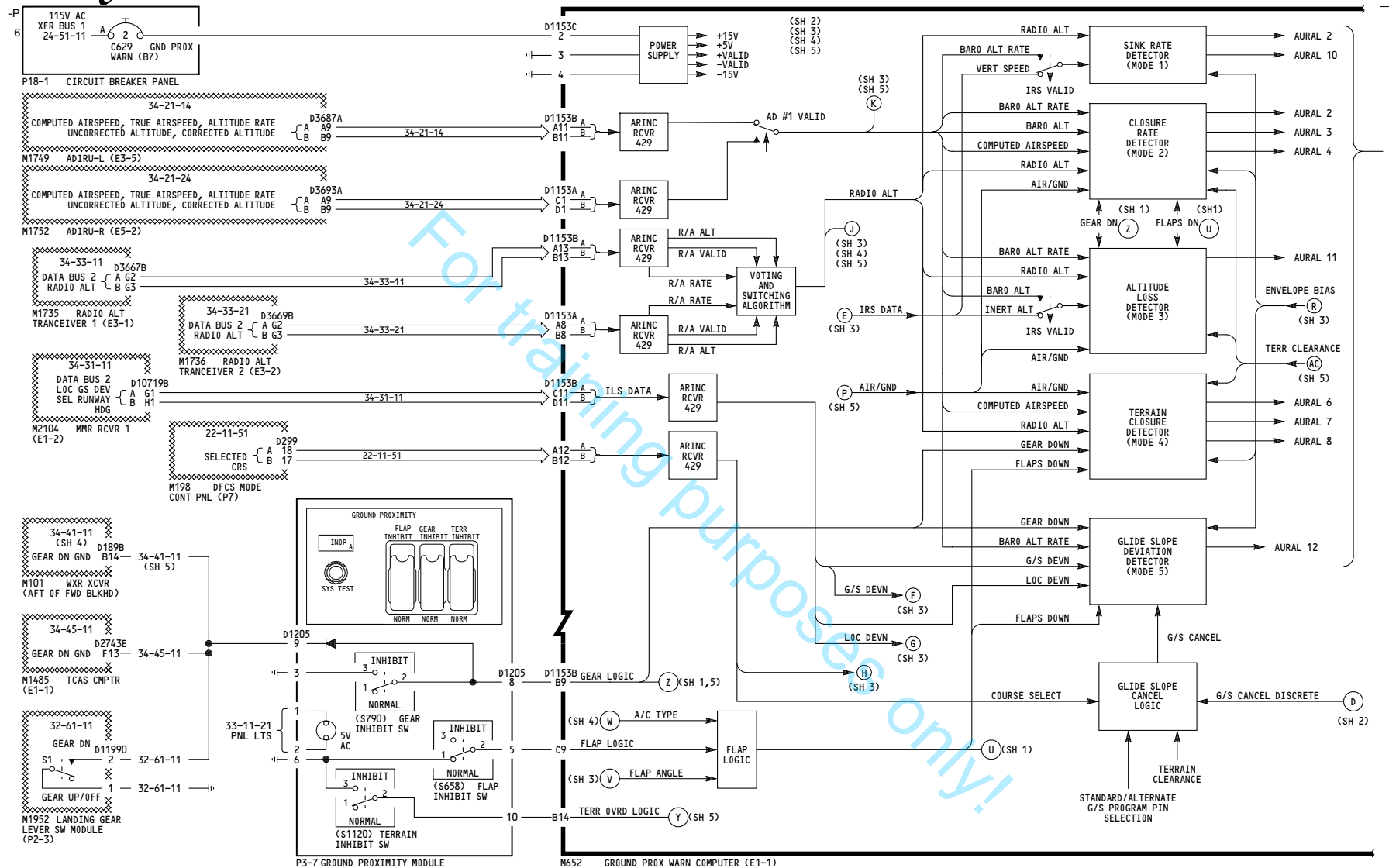
Page 101

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23



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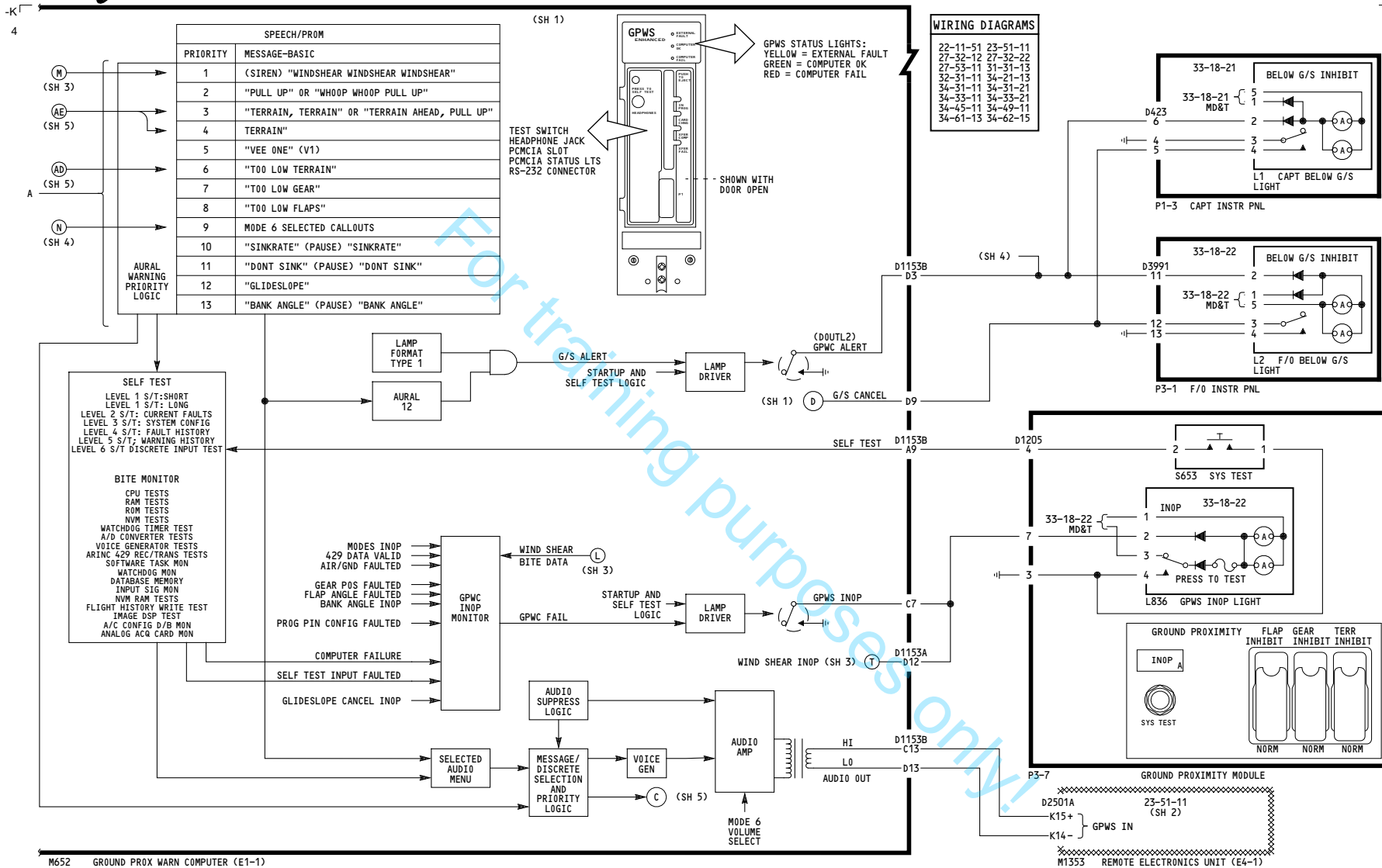


YD001-YD005

## GROUND PROXIMITY WARNING

D280A238

34-49-11



YD001-YD005

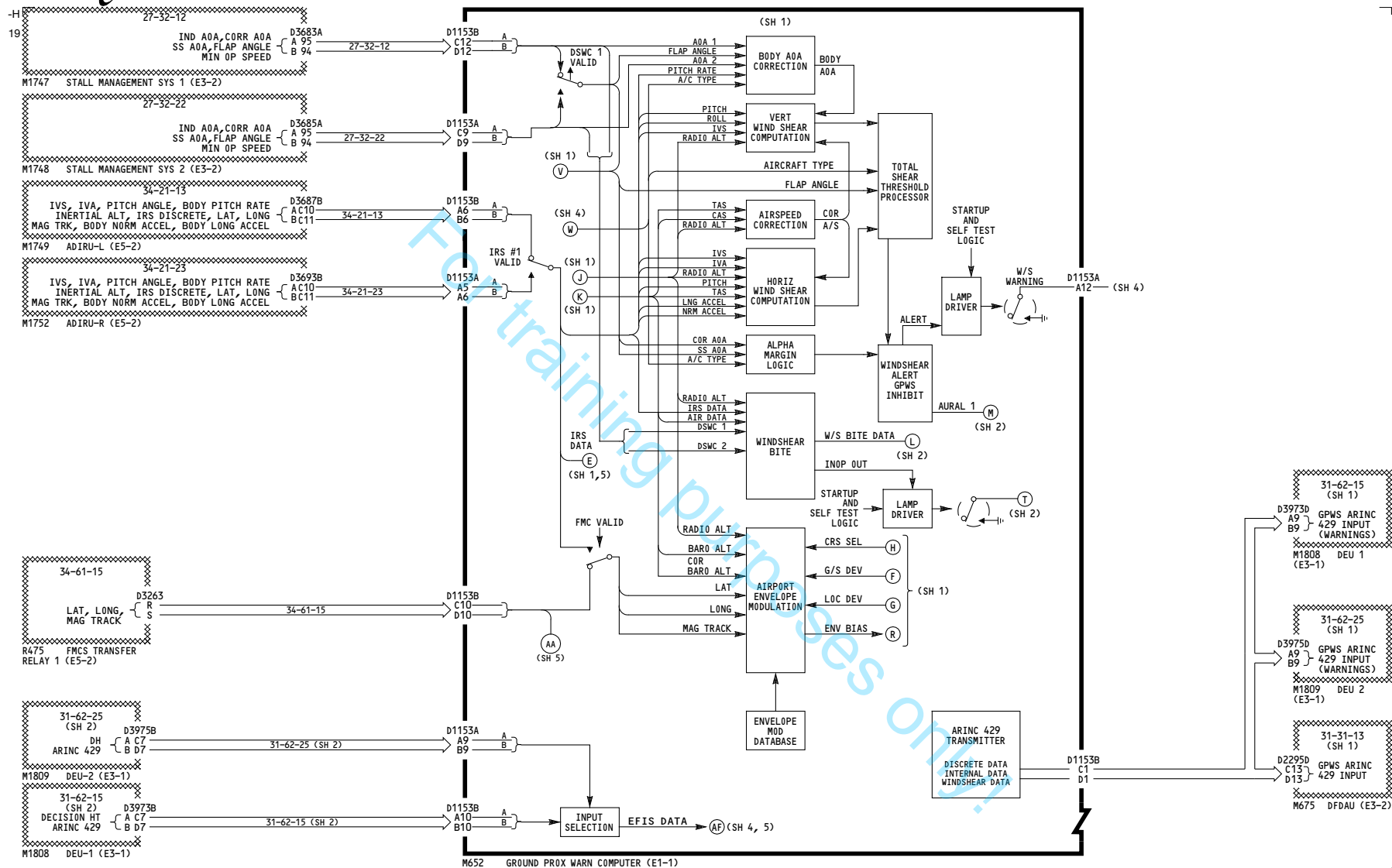
## GROUND PROXIMITY WARNING

D280A238

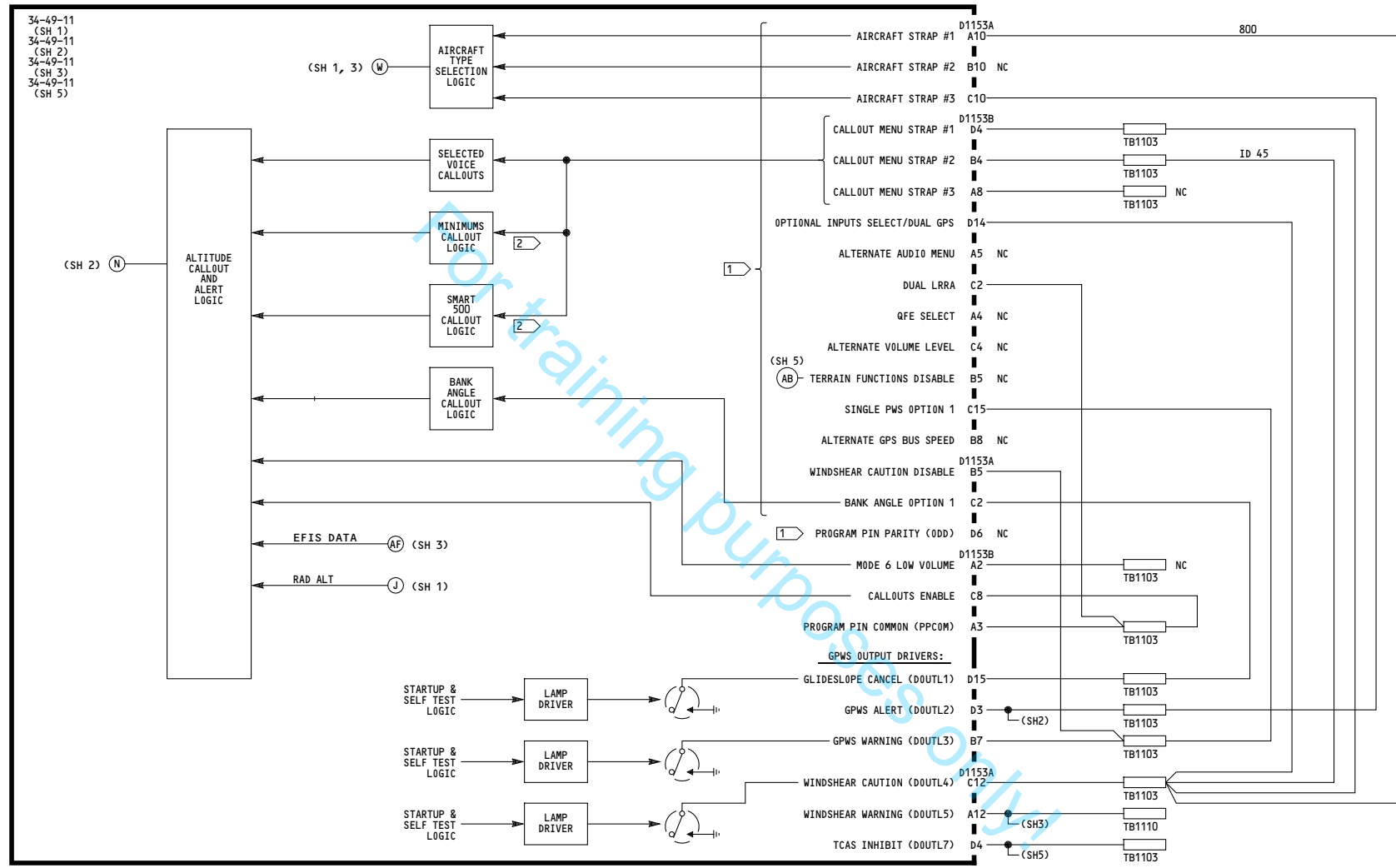
**34-49-11**

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2 LOGIC USED IF CALLOUT SELECTION INCLUDES MINIMUMS AND/OR SMART 500 CALLOUTS.

1 THESE 17 PROGRAM PINS ARE INVOLVED IN THE COUNT FOR PARITY.  
PROGRAM PIN MONITORING IS PROVIDED VIA A PARITY PIN (D6) WHICH IS TO BE  
CONNECTED OR NOT TO A3 (COMMON) SUCH THAT AN ODD NUMBER OF PROGRAM PINS ARE USED.

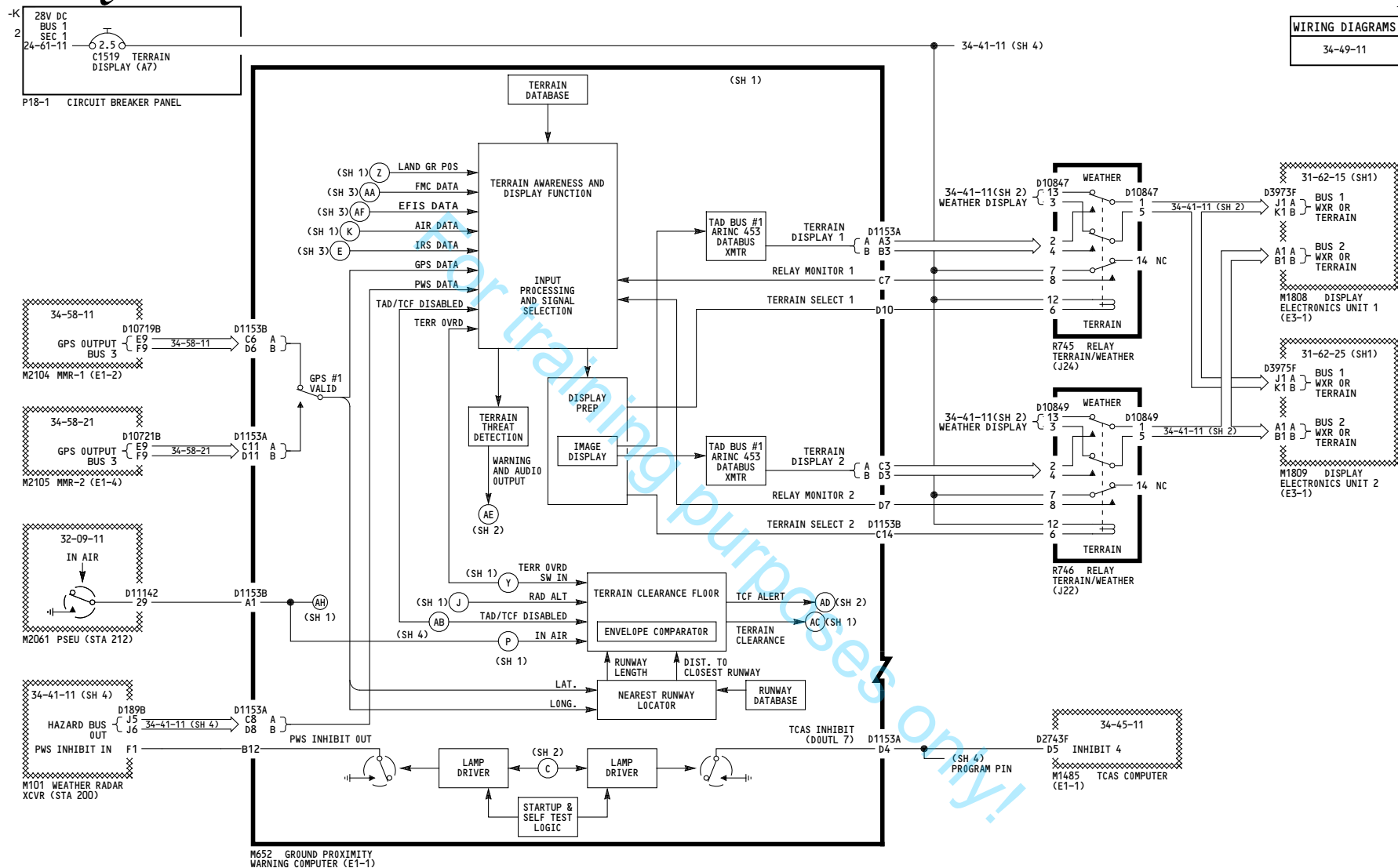
YD001-YD005

## GROUND PROXIMITY WARNING

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YD001-YD005

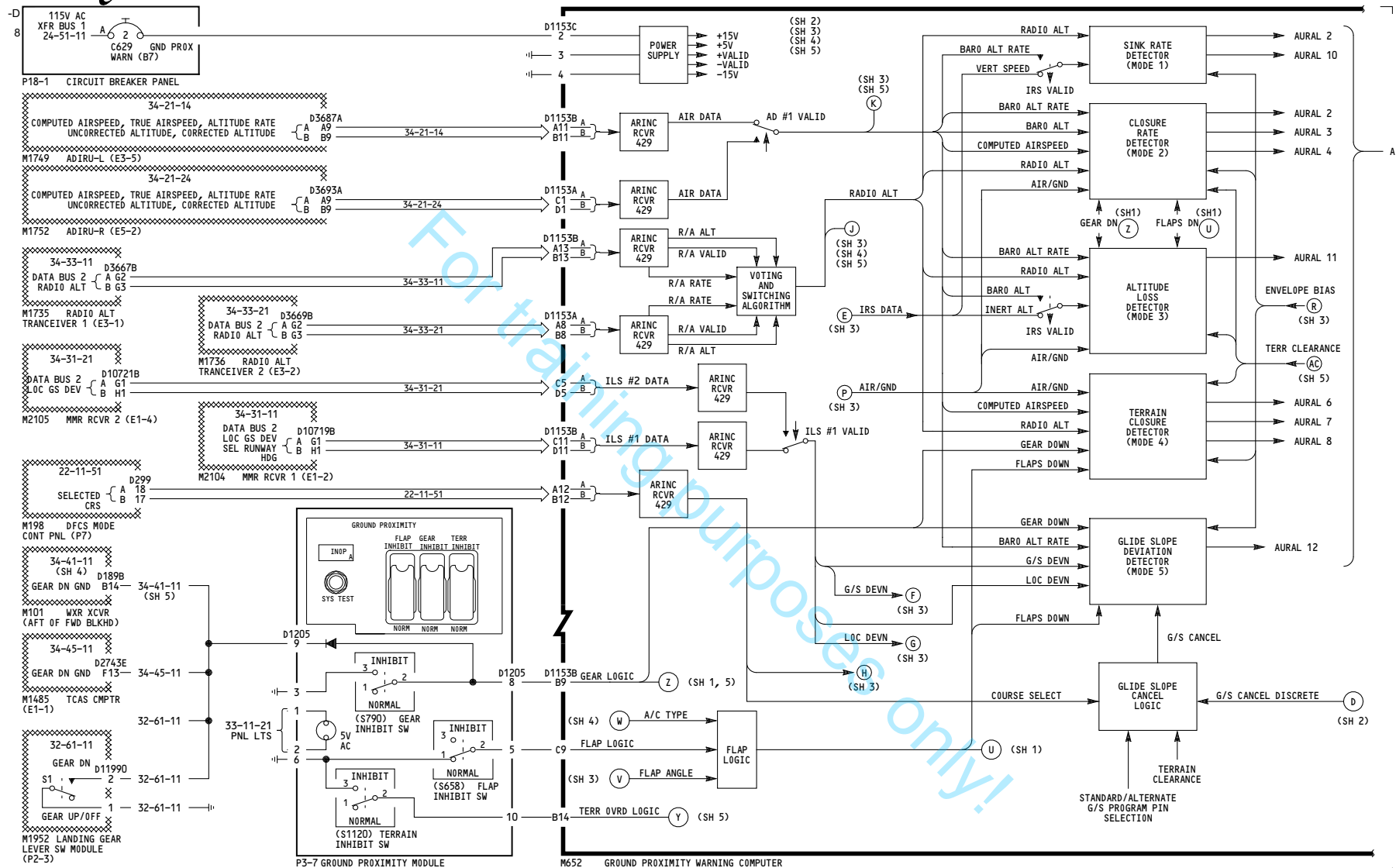
GROUND PROXIMITY WARNING

D280A238

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Sheet 5  
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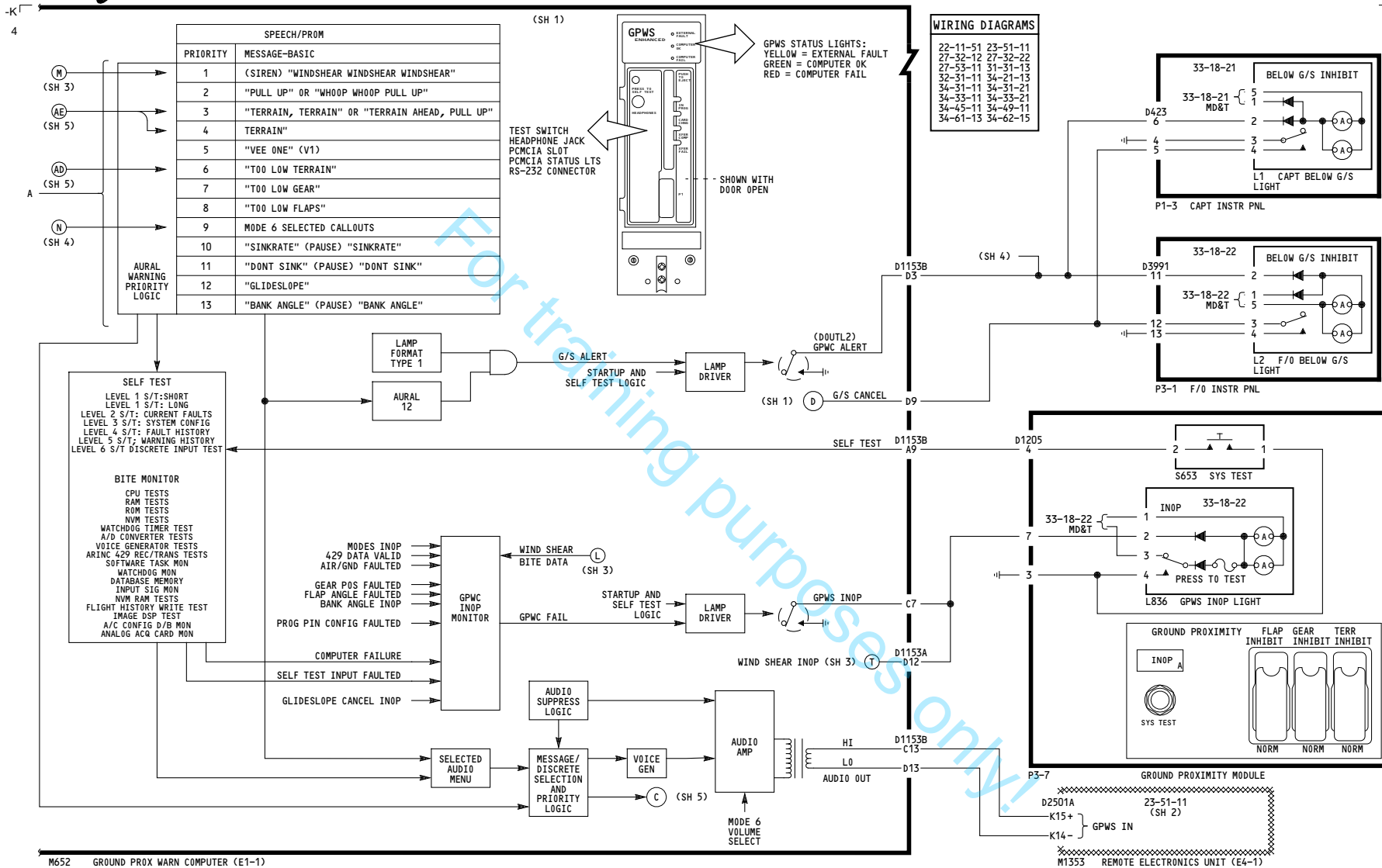


YD006-YD020

## GROUND PROXIMITY WARNING

D280A238

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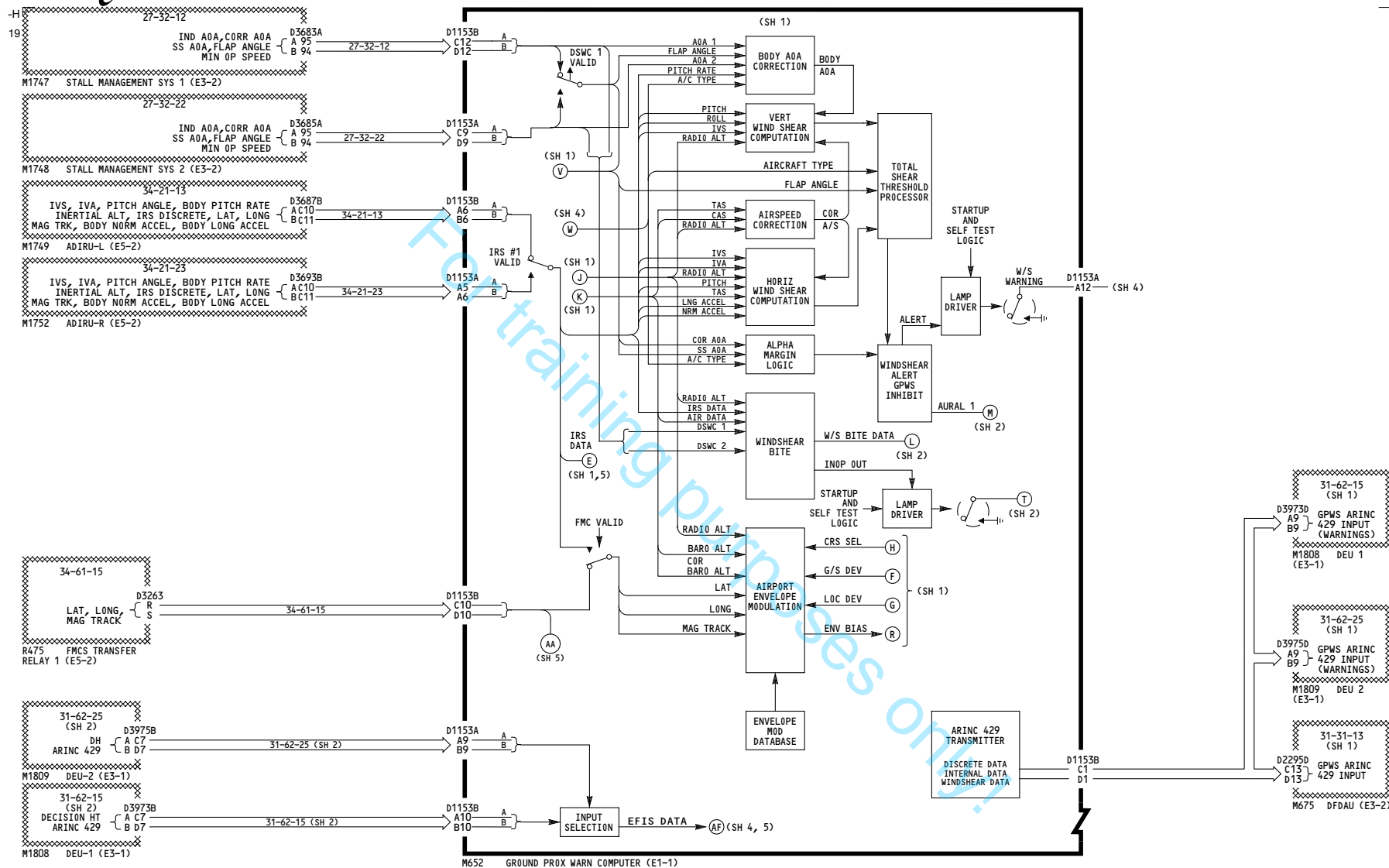
YD006-YD020

## GROUND PROXIMITY WARNING

D280A238

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YD006-YD020

## GROUND PROXIMITY WARNING

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(SH 1)  
34-49-11  
(SH 2)  
34-49-11  
(SH 3)  
34-49-11  
(SH 5)

(SH 2) (N)

ALTITUDE CALLOUT AND ALERT LOGIC

(SH 1, 3) (W)

AIRCRAFT TYPE SELECTION LOGIC

SELECTED VOICE CALLOUTS

MINIMUMS CALLOUT LOGIC (2)

SMART 500 CALLOUT LOGIC (2)

BANK ANGLE CALLOUT LOGIC

EFIS DATA (AF) (SH 3)

RAD ALT (J) (SH 1)

AIRCRAFT STRAP #1 A10

AIRCRAFT STRAP #2 B10 NC

AIRCRAFT STRAP #3 C10

CALLOUT MENU STRAP #1 D1153B D4

CALLOUT MENU STRAP #2 B4

CALLOUT MENU STRAP #3 A8

OPTIONAL INPUTS SELECT/DUAL GPS D14

ALTERNATE AUDIO MENU A5 NC

DUAL LRRA/DUAL ILS C2

QFE SELECT A4 NC

ALTERNATE VOLUME LEVEL C4 NC

(SH 5) (AB) TERRAIN FUNCTIONS DISABLE B5 NC

SINGLE PWS OPTION 1 C15

ALTERNATE GPS BUS SPEED B8 NC

WINDSHEAR CAUTION DISABLE D1153A B5

BANK ANGLE OPTION 1 C2

(1) PROGRAM PIN PARITY (ODD) D6

MODE 6 LOW VOLUME D1153B A2

CALLOUTS ENABLE C8

PROGRAM PIN COMMON (PPCOM) A3

GPWS OUTPUT DRIVERS:

GLIDESLOPE CANCEL (DOU TL1) D15

GPWS ALERT (DOU TL2) D3 (SH2)

GPWS WARNING (DOU TL3) B7

WINDSHEAR CAUTION (DOU TL4) D1153A C12

WINDSHEAR WARNING (DOU TL5) A12 (SH3)

TCAS INHIBIT (DOU TL7) D4 (SH5)

STARTUP & SELF TEST LOGIC

LAMP DRIVER

STARTUP & SELF TEST LOGIC

LAMP DRIVER

STARTUP & SELF TEST LOGIC

LAMP DRIVER

2 LOGIC USED IF CALLOUT SELECTION INCLUDES MINIMUMS AND/OR SMART 500 CALLOUTS.

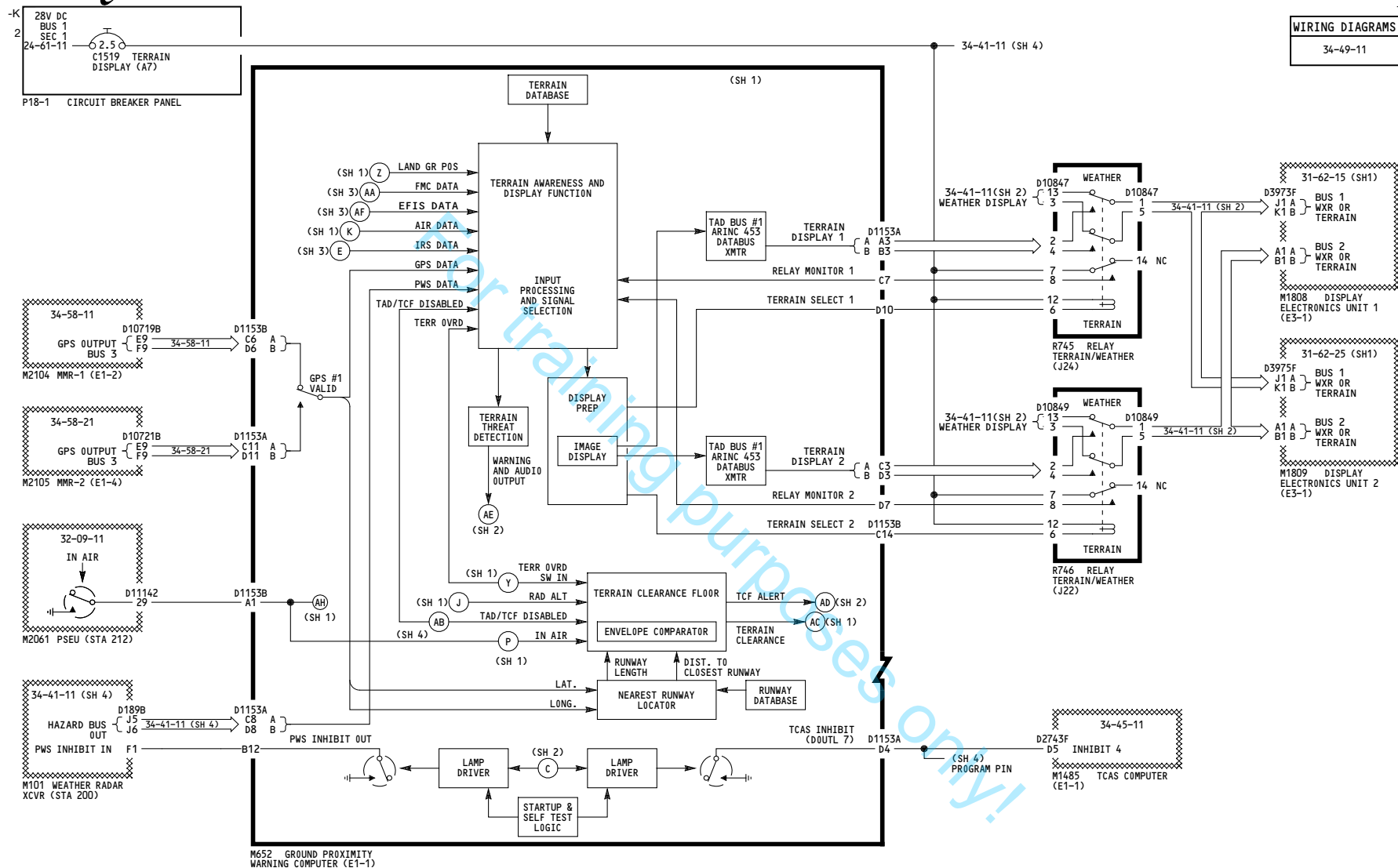
1 THESE 17 PROGRAM PINS ARE INVOLVED IN THE COUNT FOR PARITY.

## GROUND PROXIMITY WARNING

**34-49-11**

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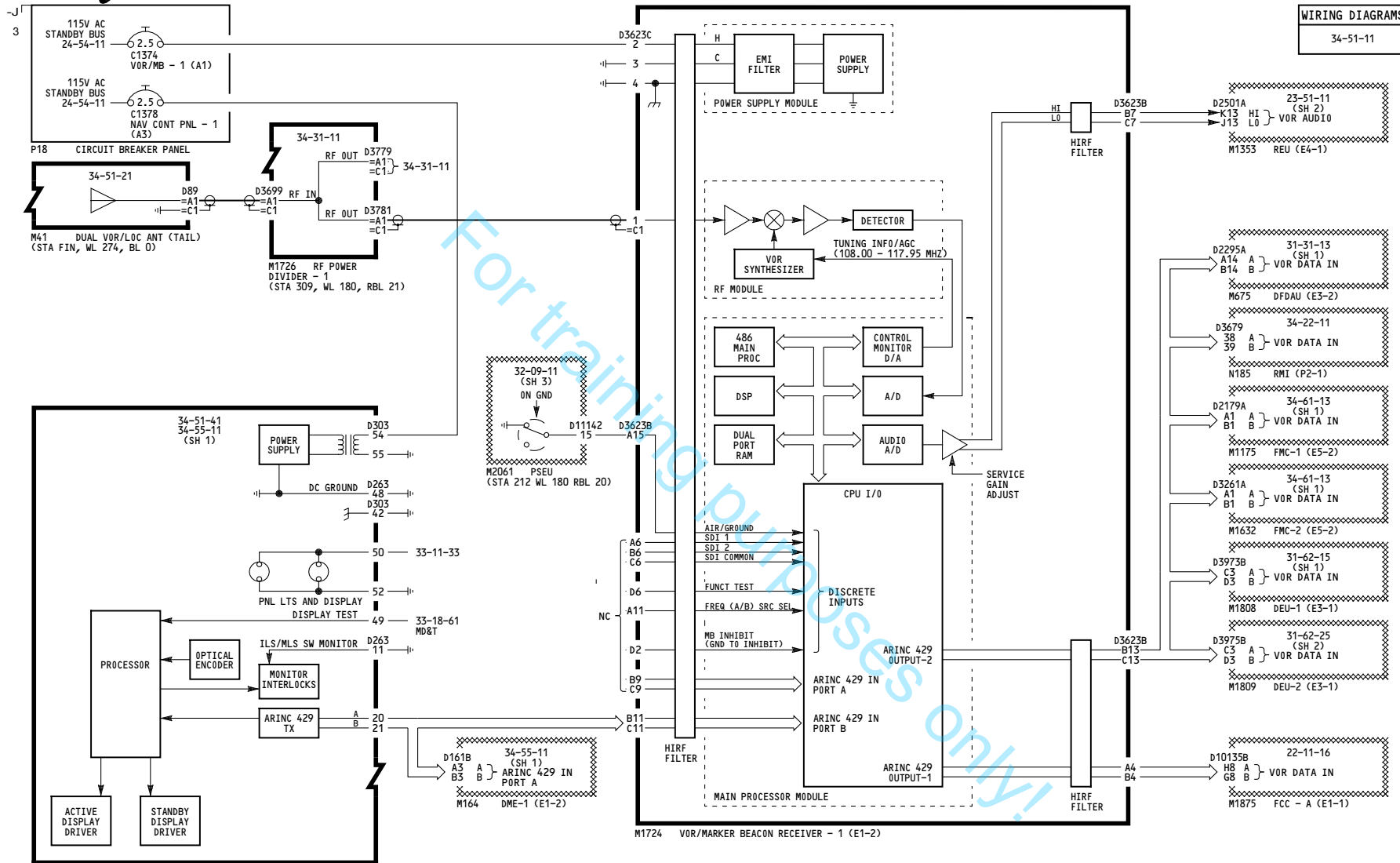
YD006-YD020

GROUND PROXIMITY WARNING

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P8-25 NAVIGATION CONTROL PANEL - CAPT (P8)

M1724 VOR/MARKER BEACON RECEIVER - 1 (E1-2)

ALL

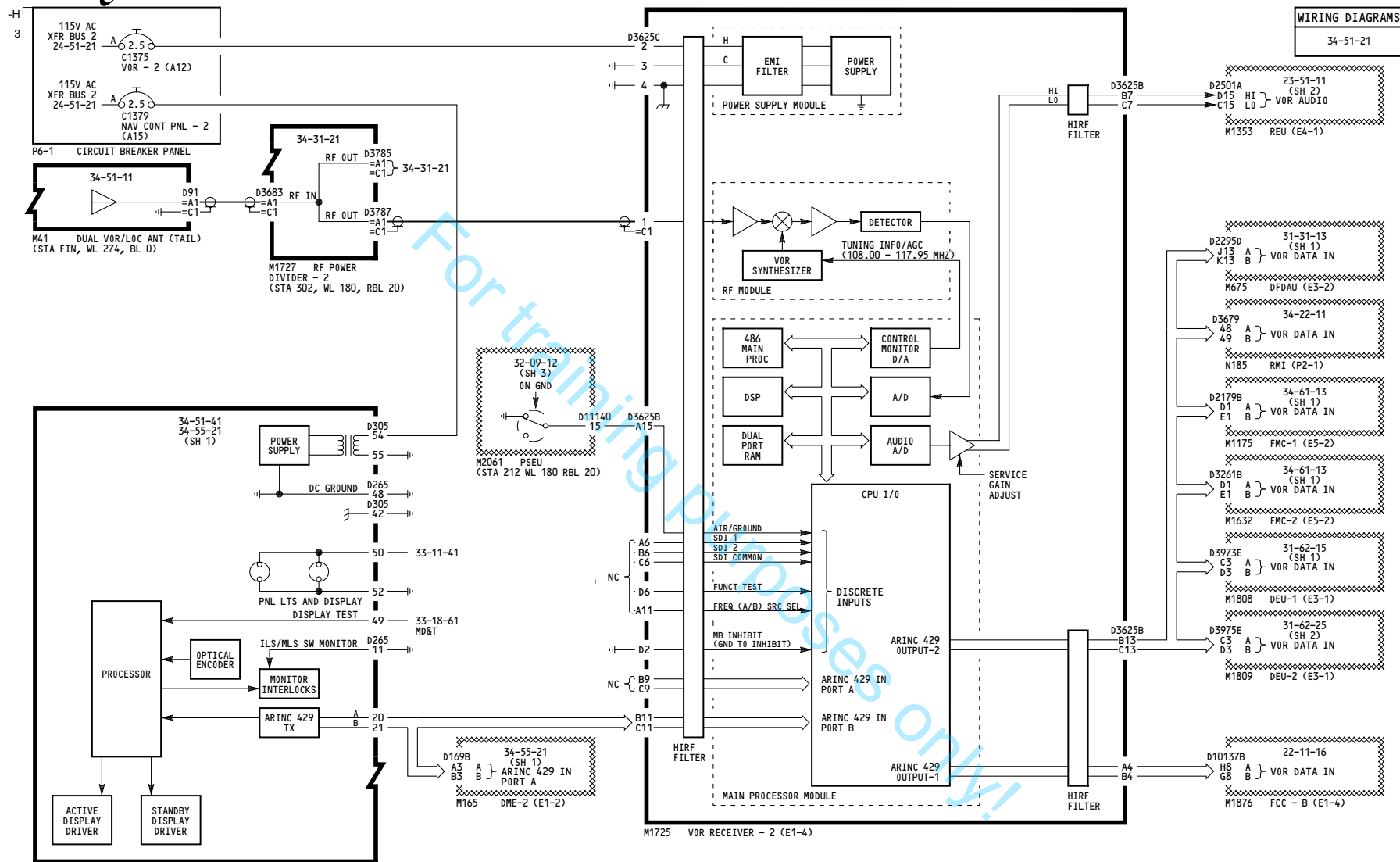
VOR NO. 1

34-51-11

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D280A238



ALL

VOR NO. 2

D280A238

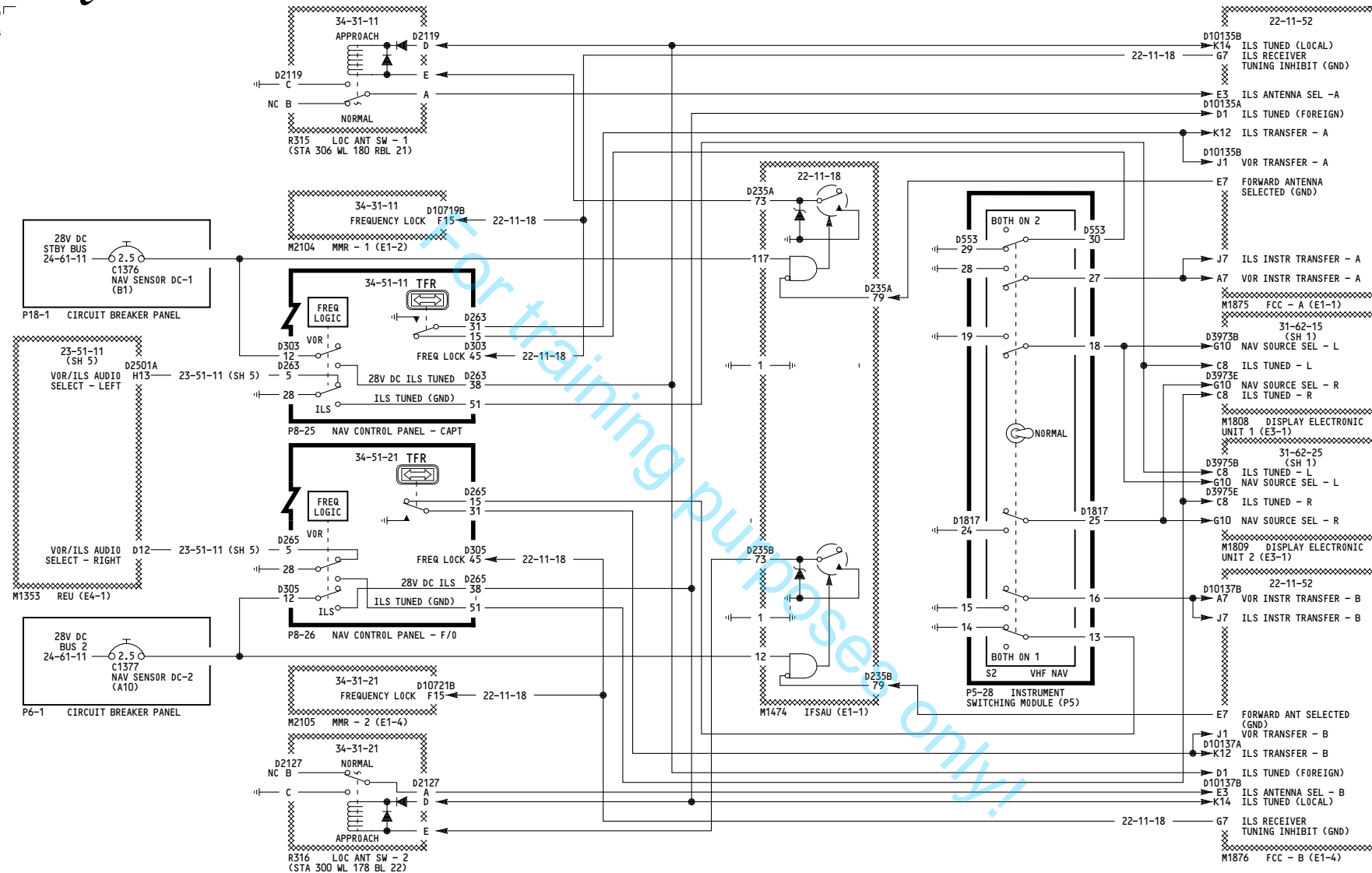
**34-51-21**

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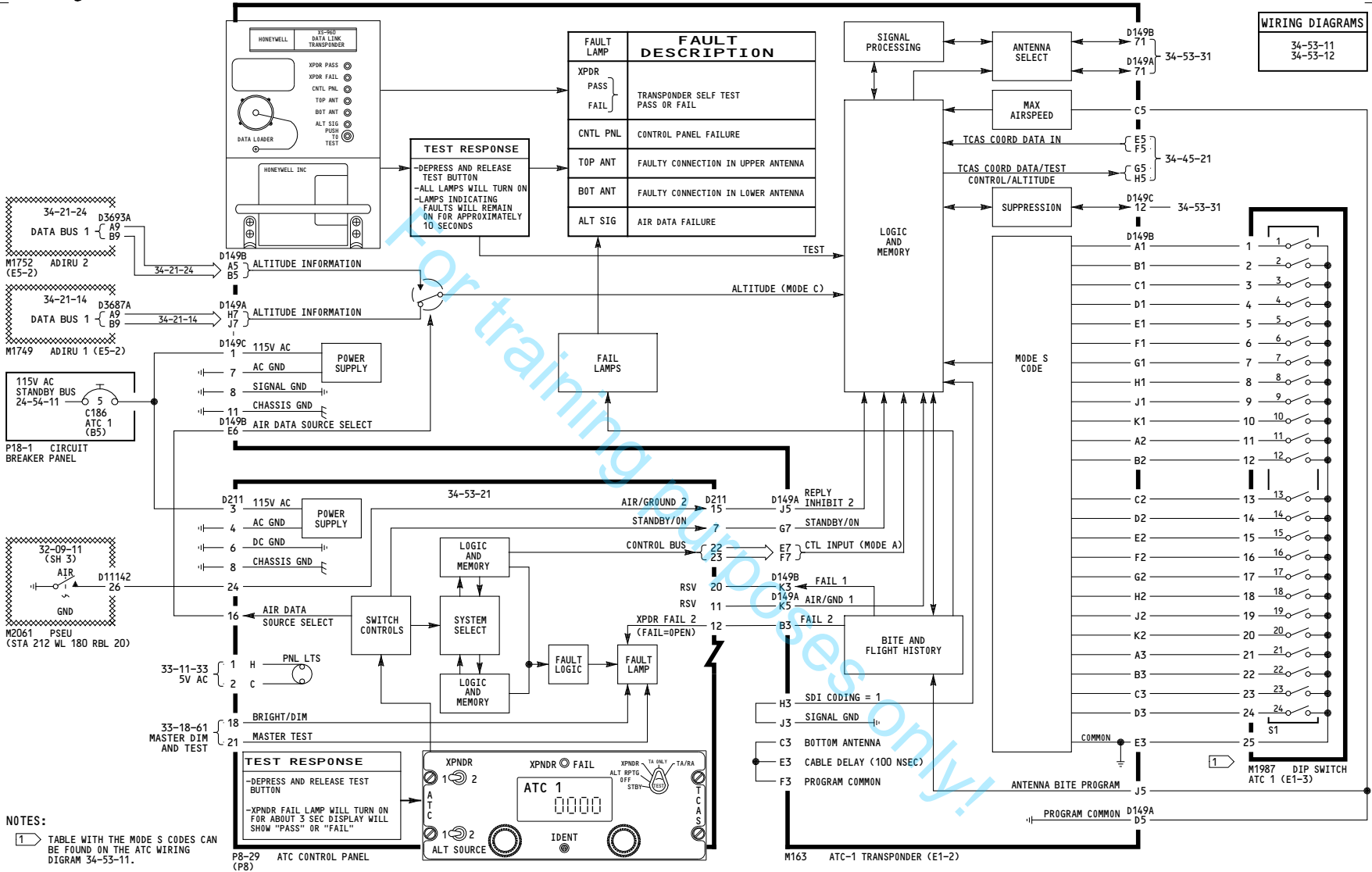
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ALL

**ATC TRANSPONDER 1**

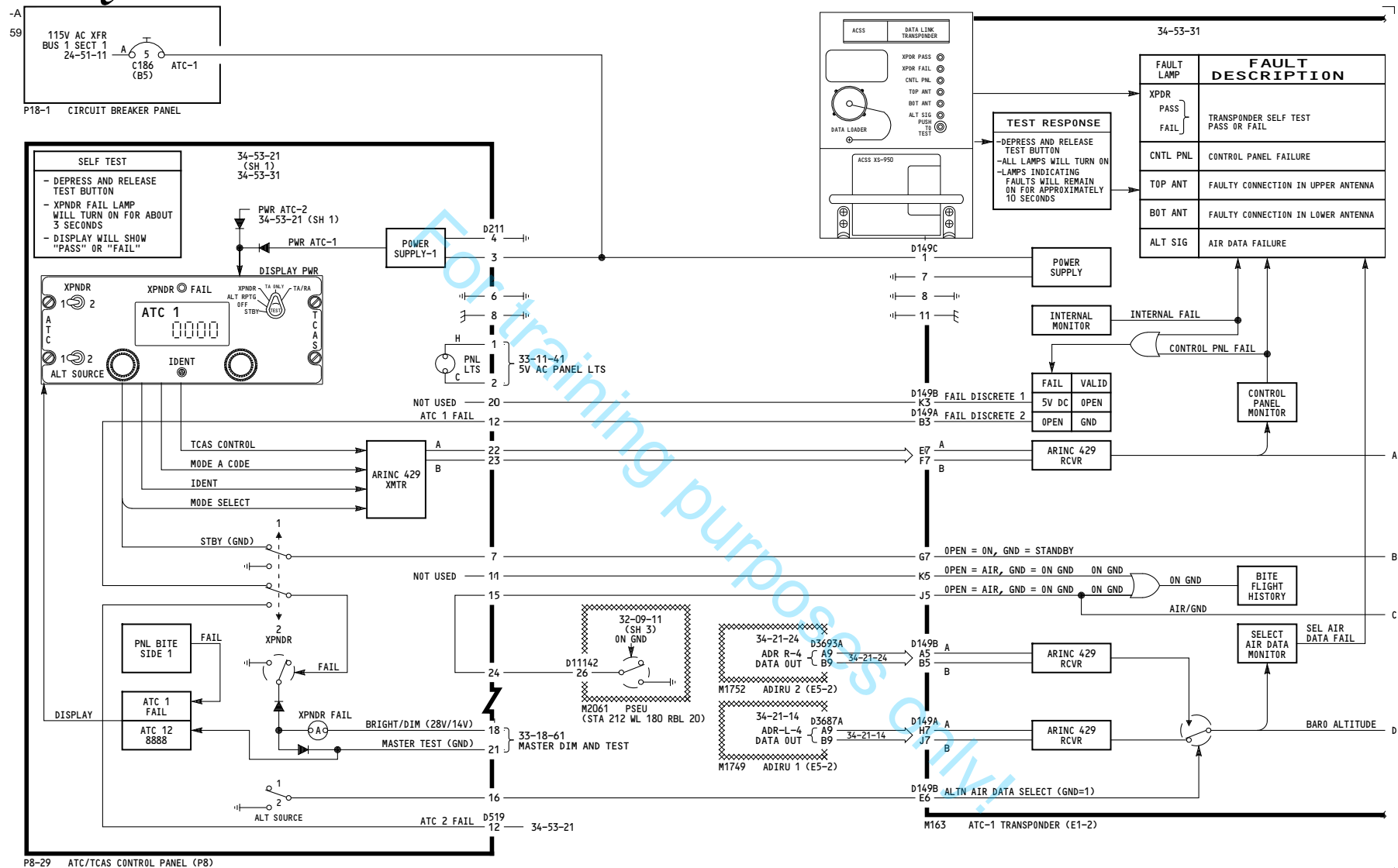
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YD001-YD005, YD007

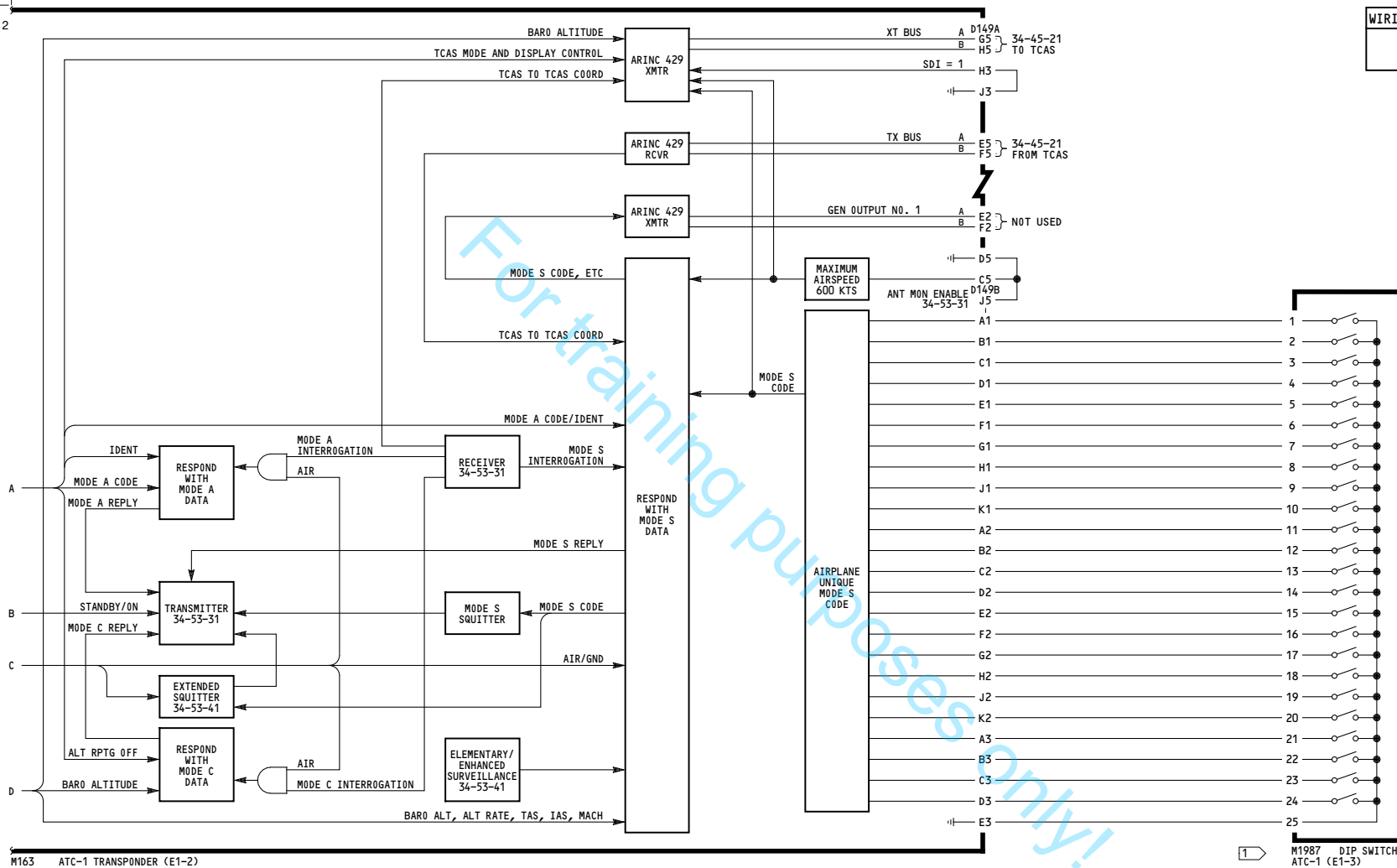
**ATC TRANSPONDER 1**

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M163 ATC-1 TRANSPONDER (E1-2)

1 M1987 DIP SWITCH ATC-1 (E1-3)

**NOTES:**

- 1 TABLE WITH MODE S CODES CAN BE FOUND ON THE ATC WIRING DIAGRAM 34-53-11

YD001-YD005, YD007

**ATC TRANSPONDER 1**

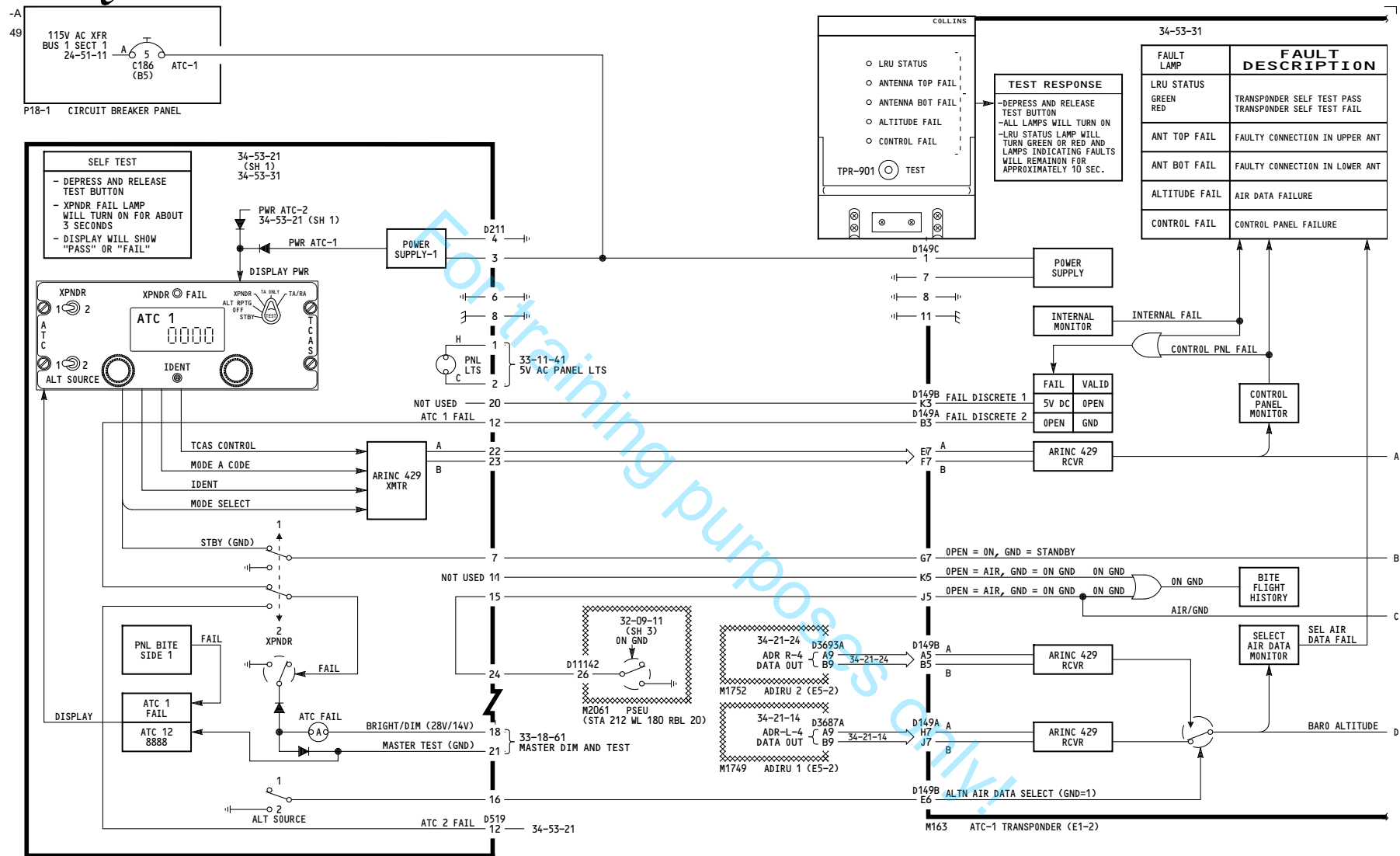
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P8-29 ATC/TCAS CONTROL PANEL (P8)

YD006

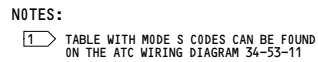
**ATC TRANSPONDER 1**


Incorporates  
▶ 34-1819

**34-53-11**

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Sheet 1  
Jun 30/2009

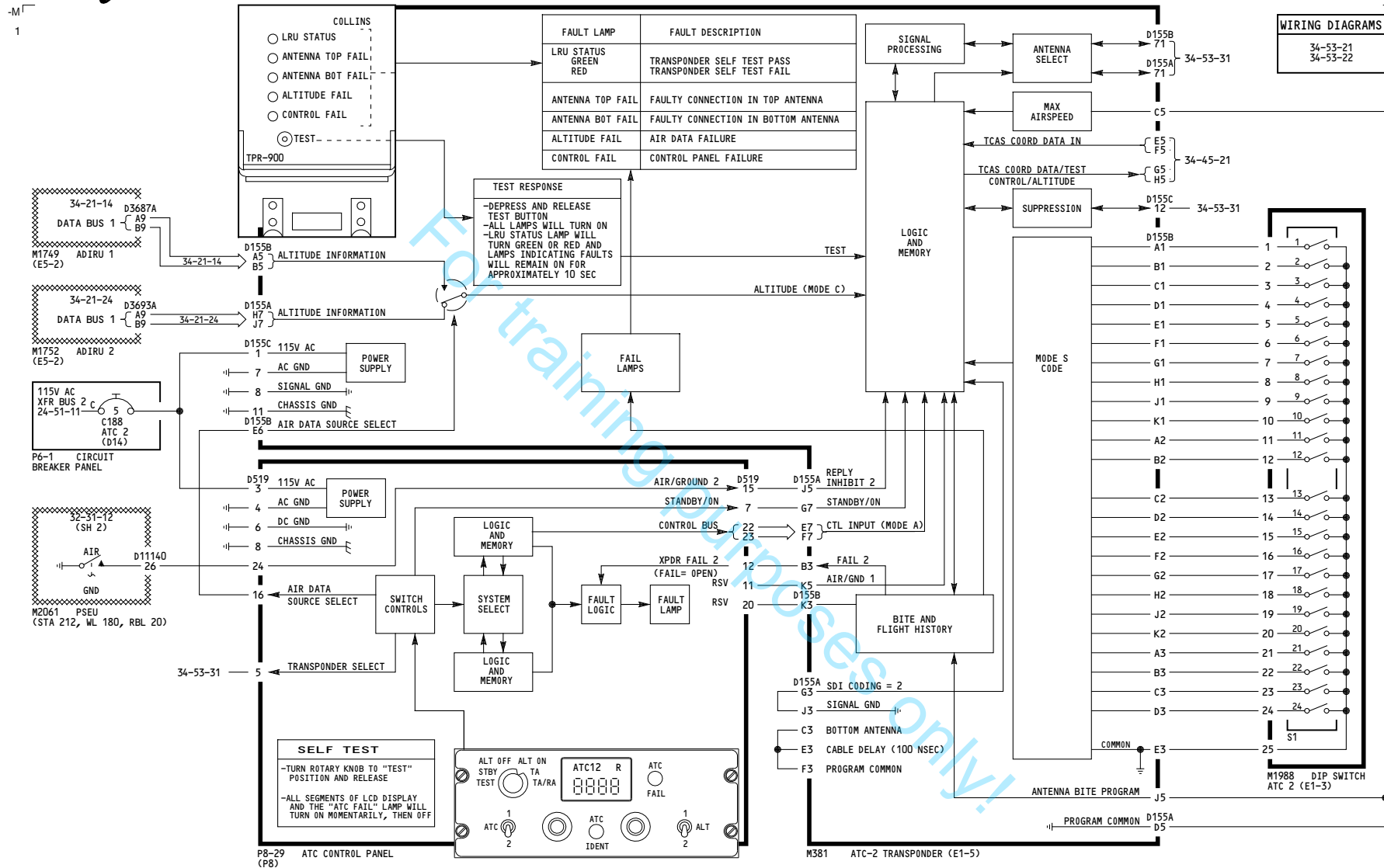
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 Incorporates  
34-1819

**34-53-11**

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Sheet 2  
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**ATC TRANSPONDER 2**

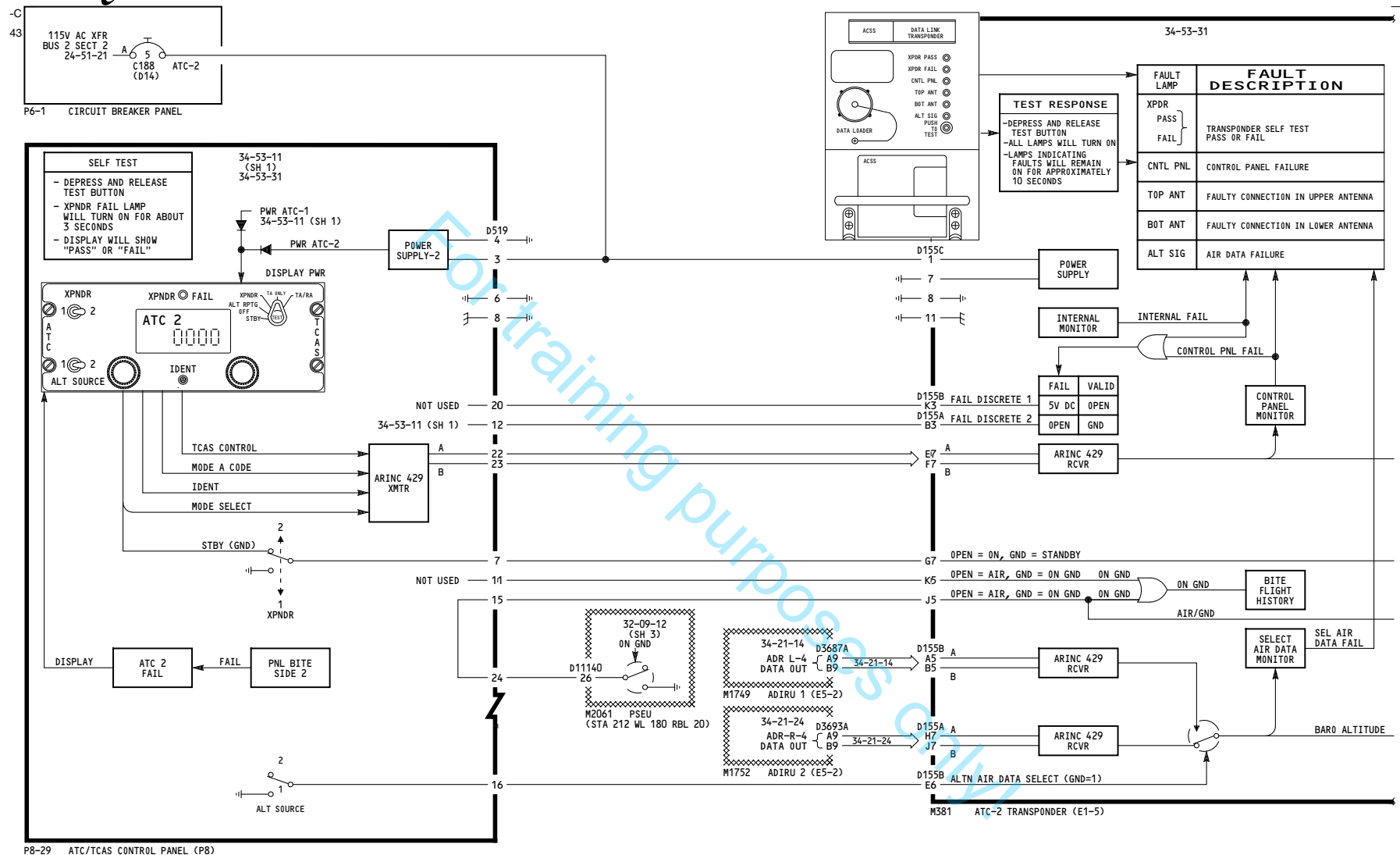
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**34-53-21**

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YD001-YD005, YD007

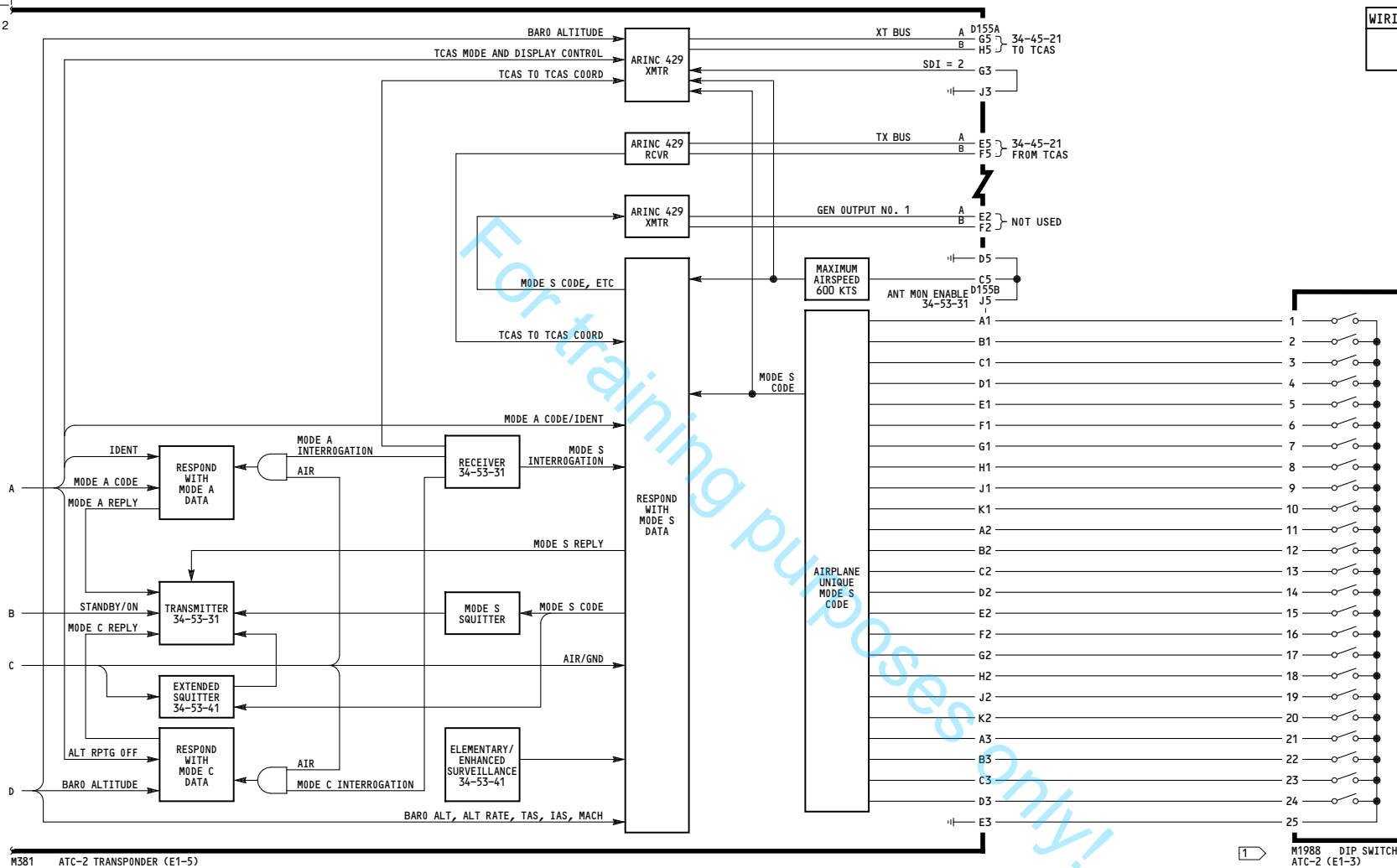
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Incorporates  
34-1814

D280A238

**34-53-21**

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M381 ATC-2 TRANSPONDER (E1-5)

**NOTES:**

- 1 TABLE WITH MODE S CODES CAN BE FOUND ON THE ATC WIRING DIAGRAM 34-53-21

YD001-YD005, YD007

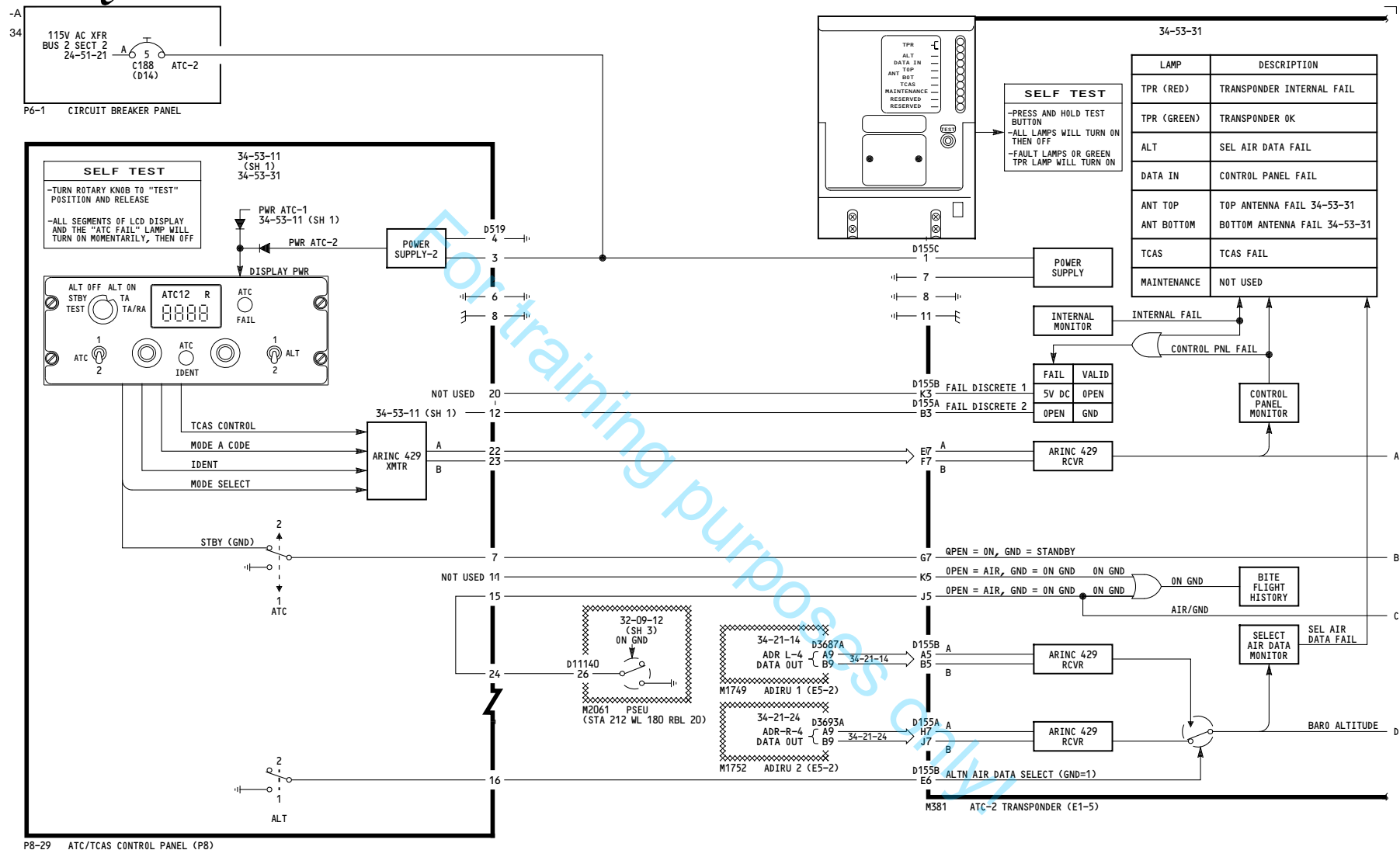
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Incorporates  
34-1814

D280A238

**34-53-21**

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YD006

## ATC TRANSPONDER 2

Incorporates  
▶ 34-1819

**34-53-21**

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1 TABLE WITH MODE S CODES CAN BE FOUND ON THE ATC WIRING DIAGRAM 34-53-21

## ATC TRANSPONDER 2

**34-53-21**

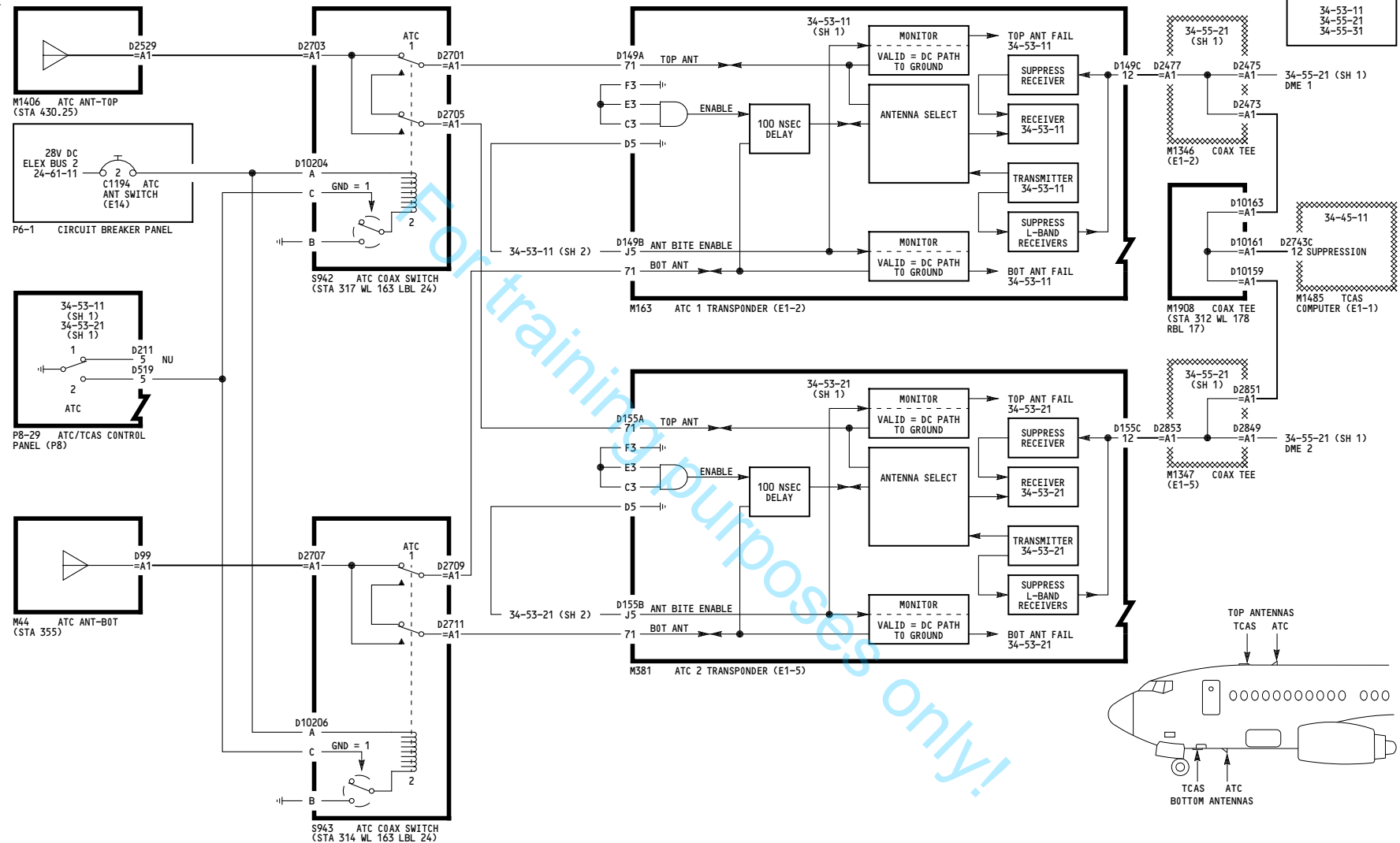
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## WIRING DIAGRAMS

34-53-11  
34-55-21  
34-55-31



YD001-YD005, YD007

**ATC ANTENNA SELECT**

Incorporates  
▶ 34-1814

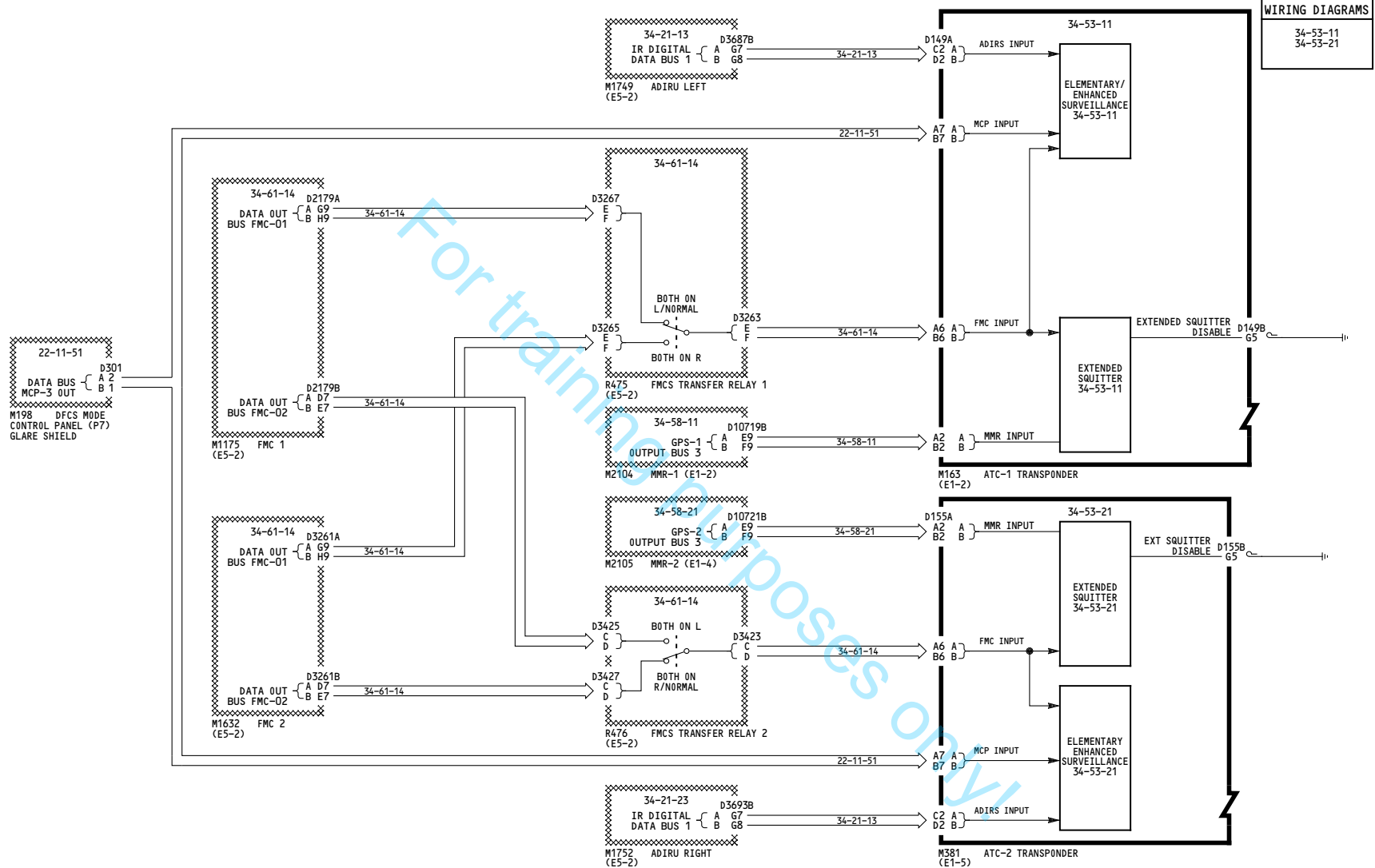
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3



YD001-YD005, YD007

**ATC ENHANCED SURVEILLANCE**

Incorporates  
➤ 34-1767 R01

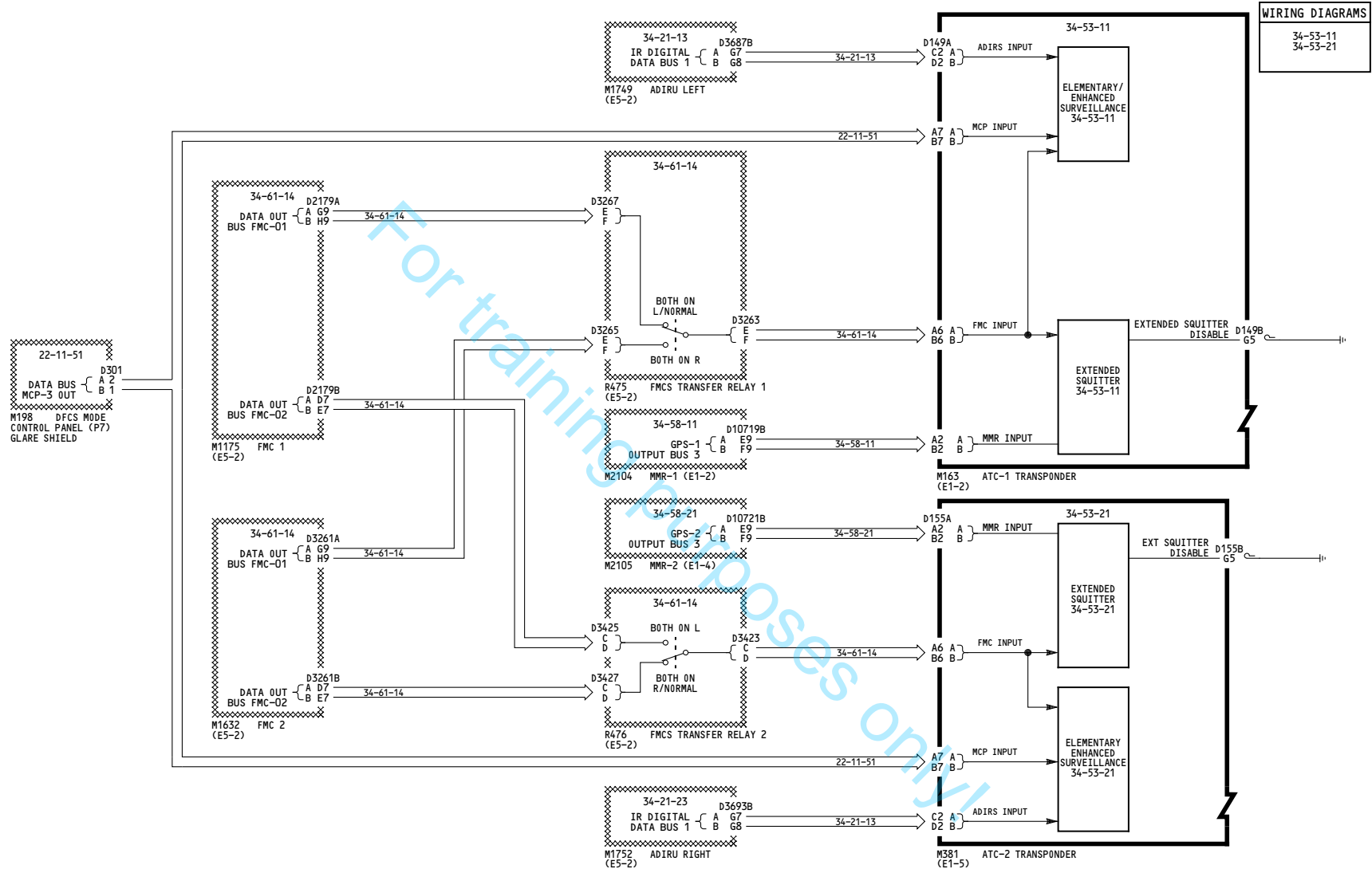
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**34-53-41**

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YD006

**ATC ENHANCED SURVEILLANCE**

Incorporates  
34-1819

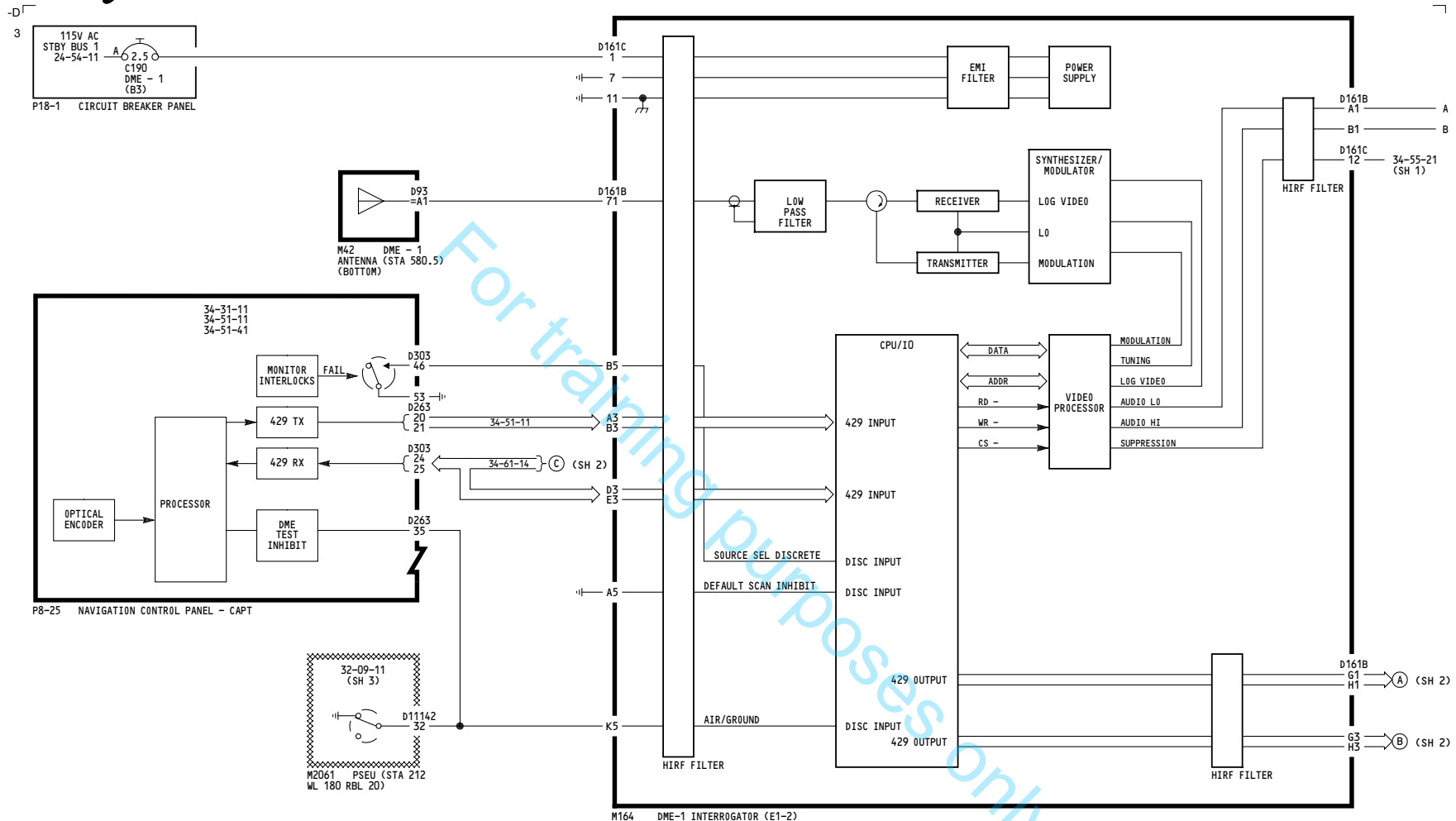
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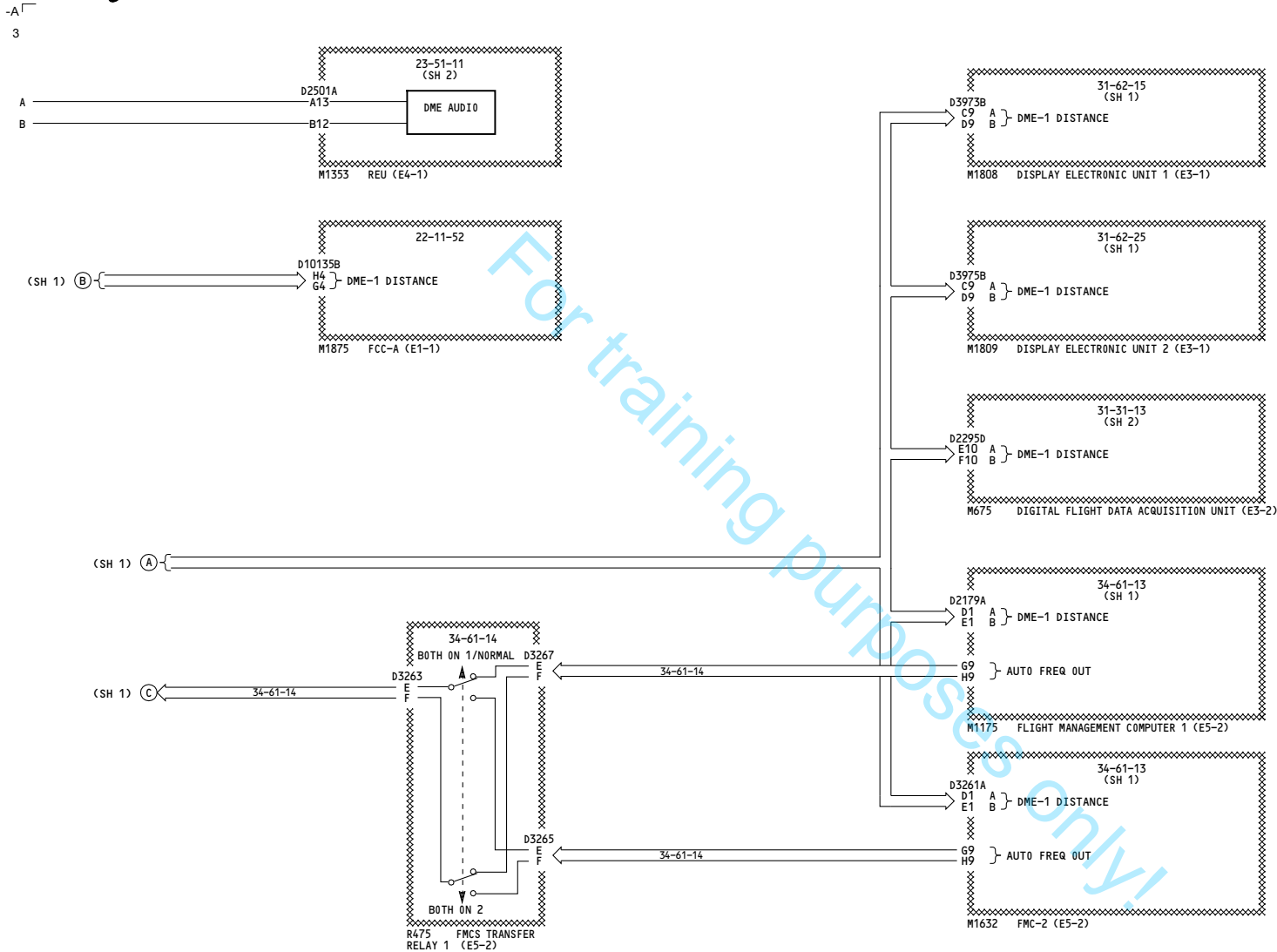
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WIRING DIAGRAMS
31-31-12
34-55-11
34-55-21

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**34-55-11**

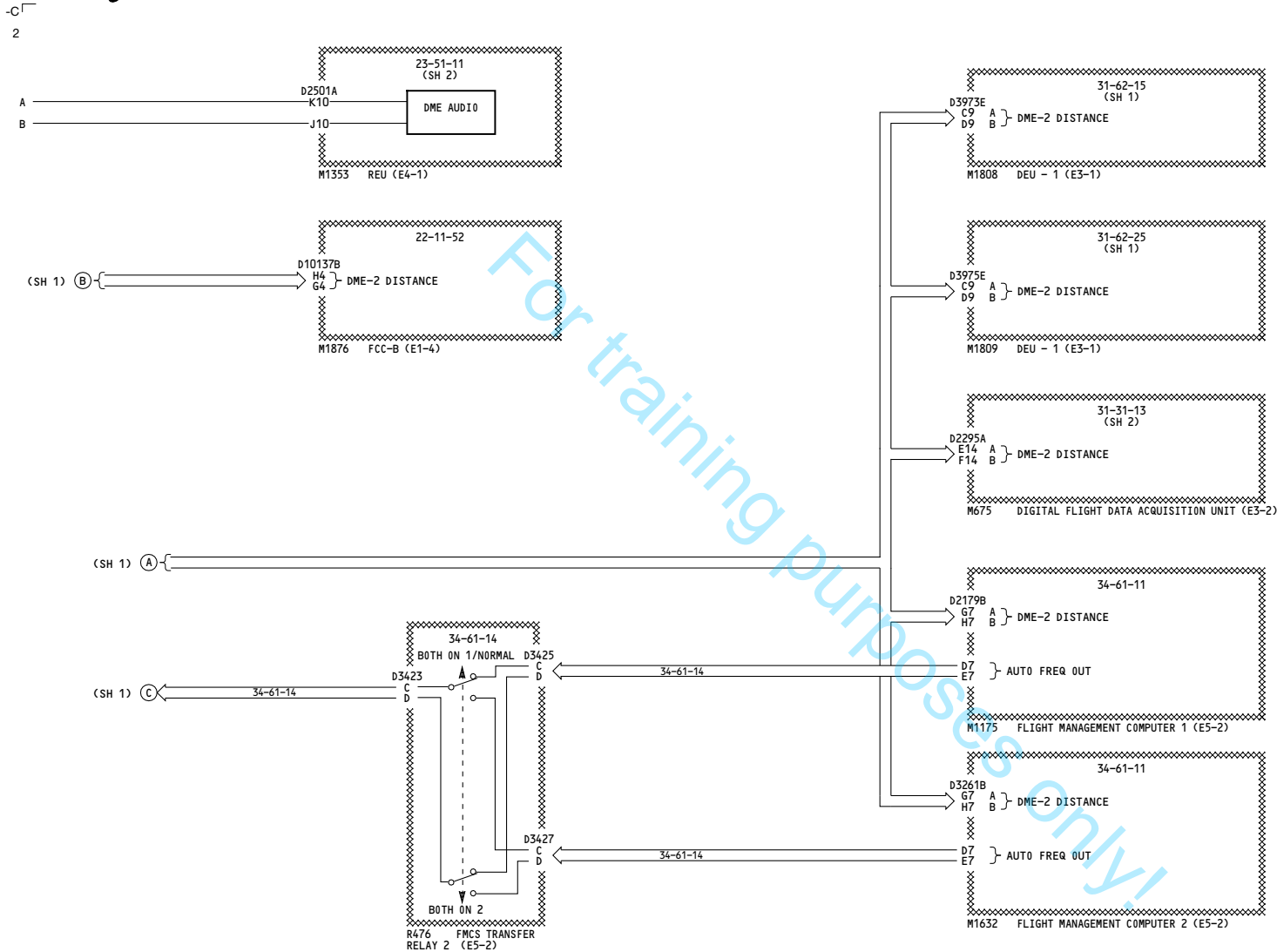


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**34-55-11**

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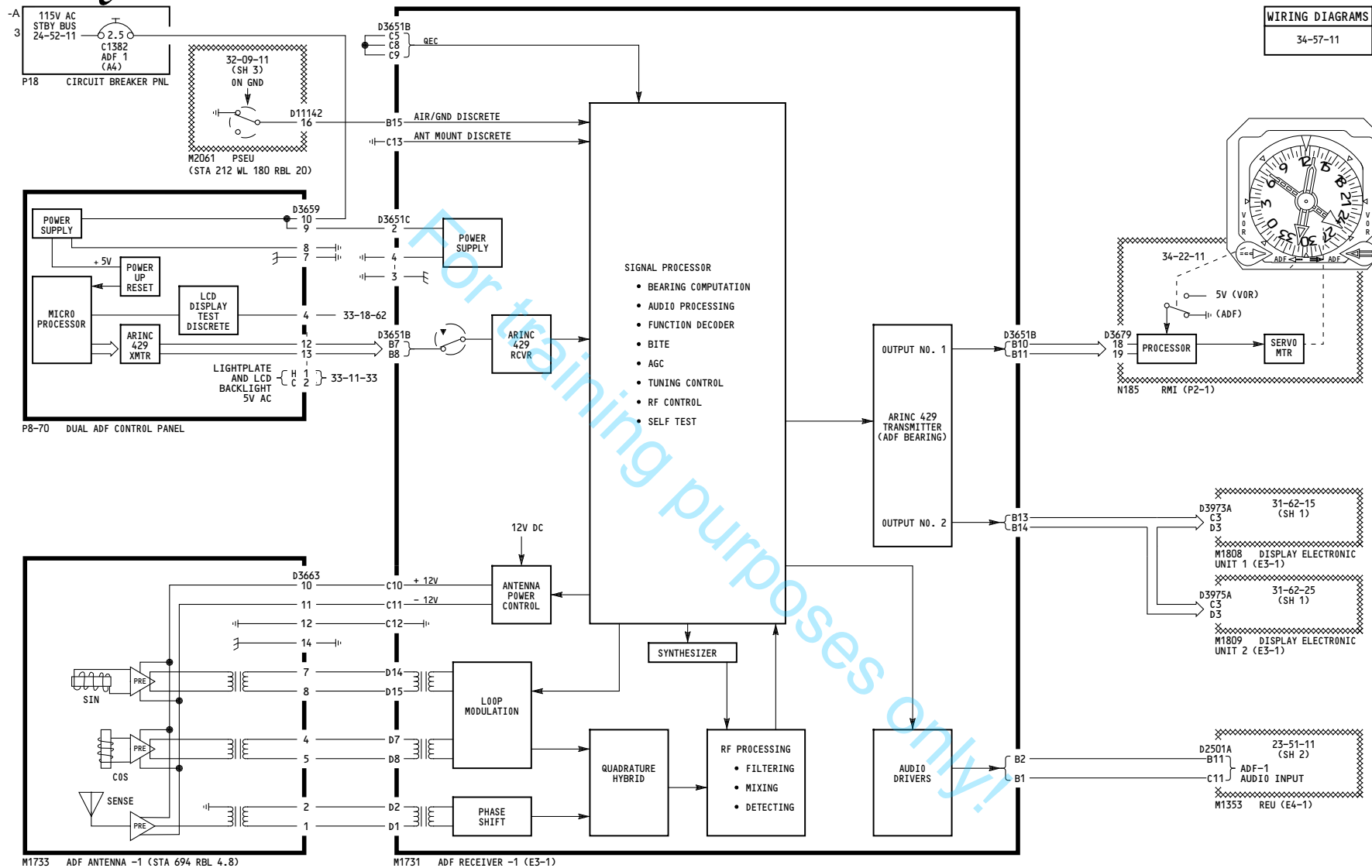
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34-55-21

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Sheet 2  
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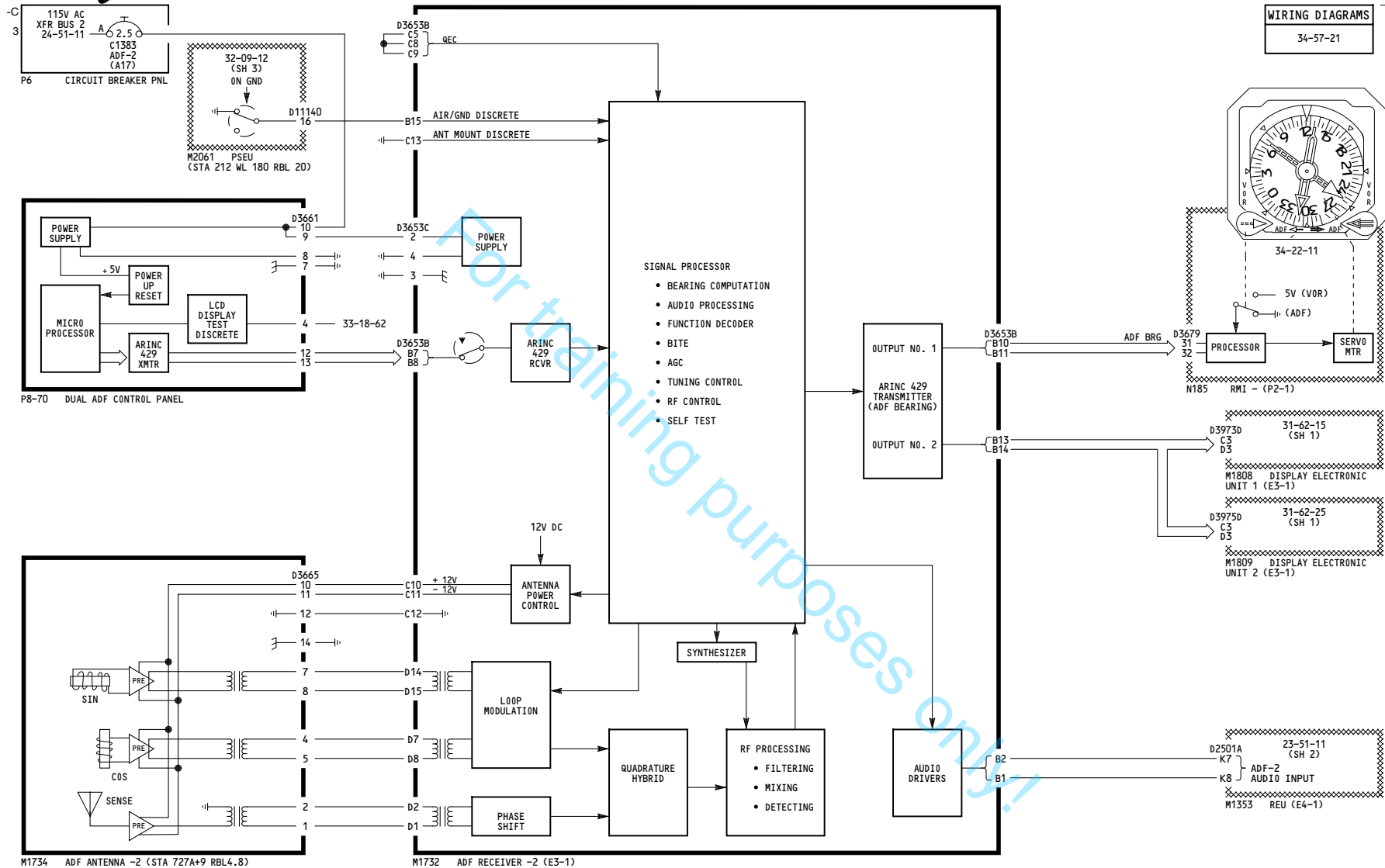
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FINDER NO. 1**

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**34-57-11**

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ALL

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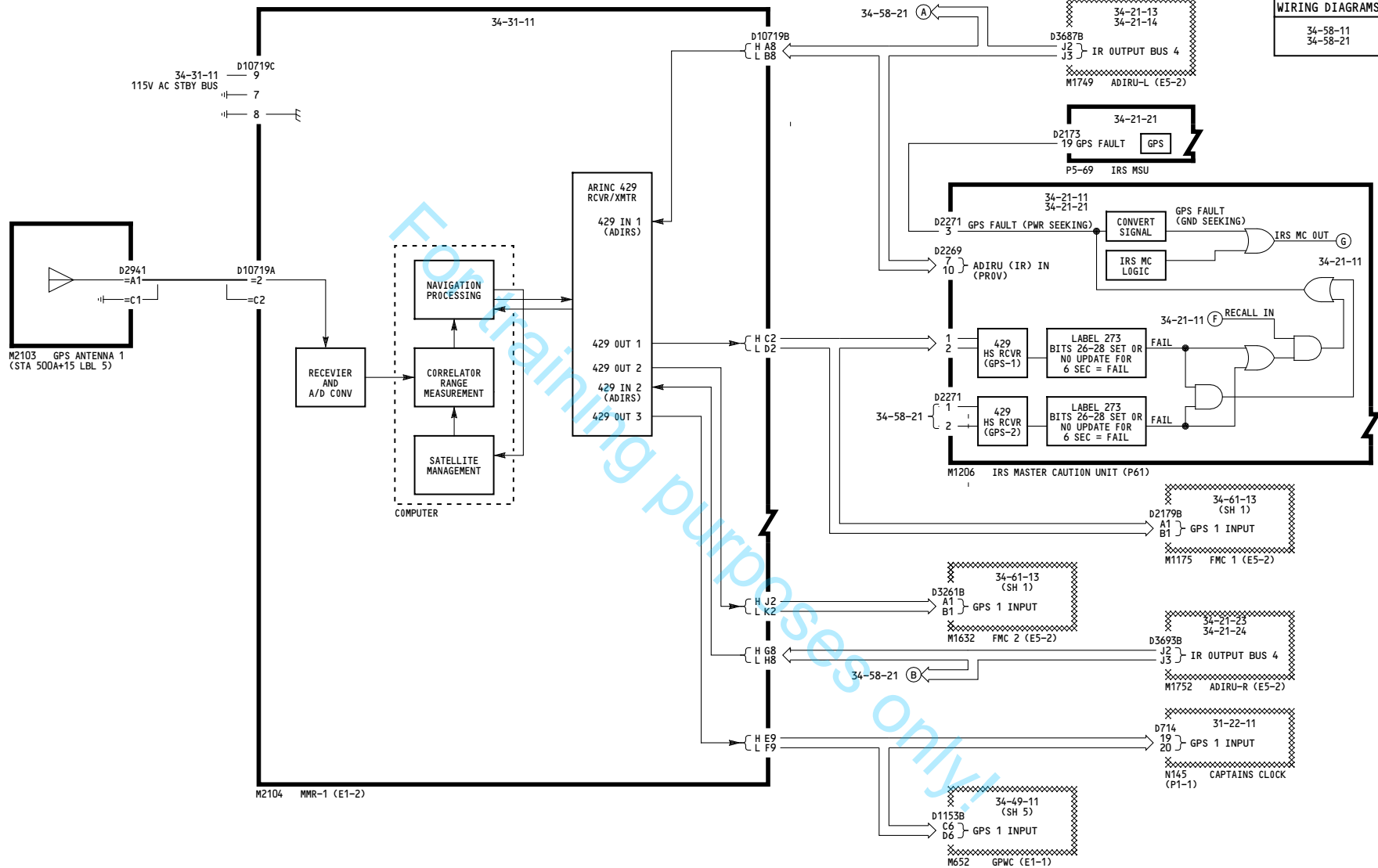
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YD001-YD007

**GLOBAL POSITIONING SYSTEM  
GPSSU 1**

D280A238

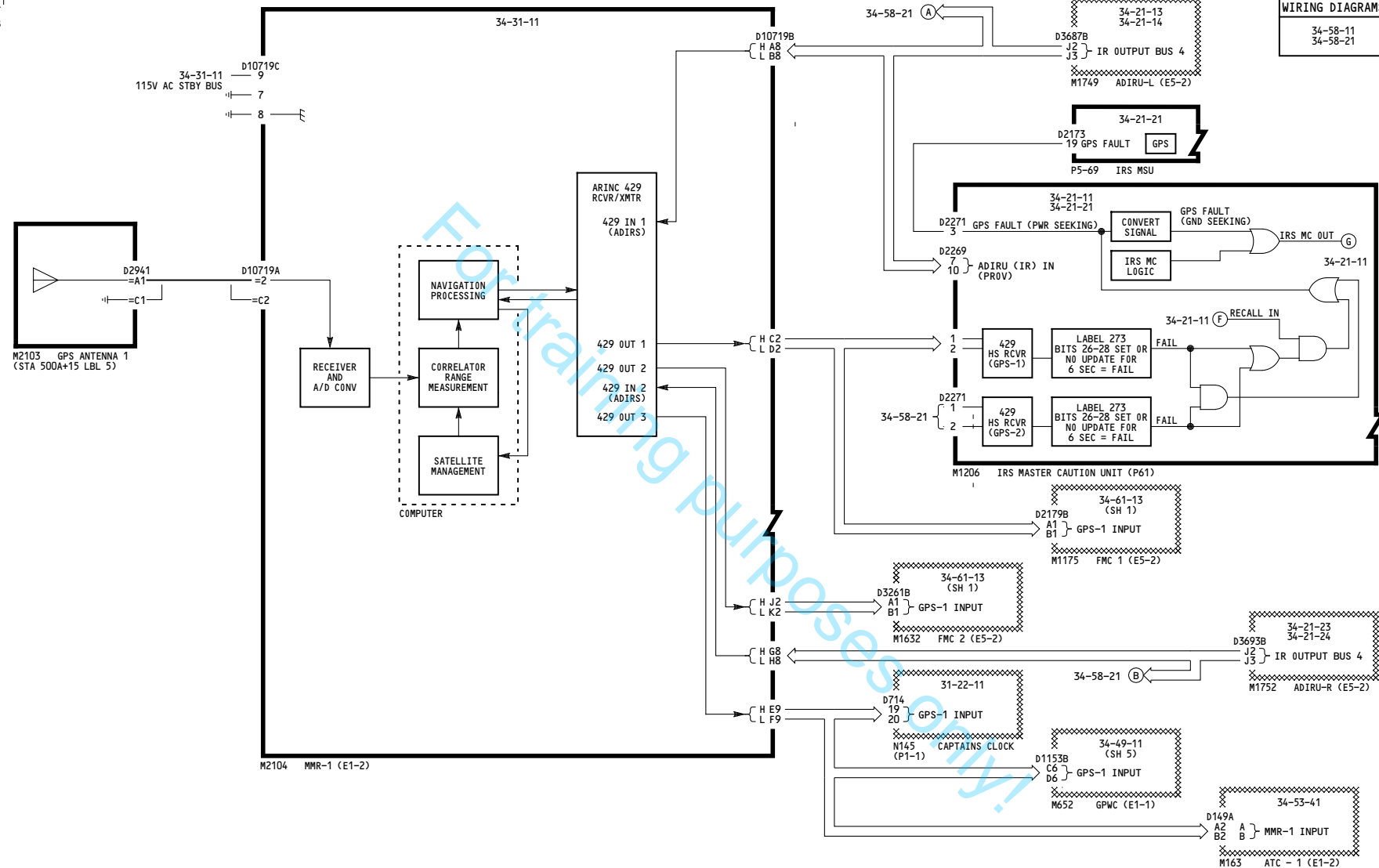
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WIRING DIAGRAMS
34-58-11 34-58-21



**GLOBAL POSITIONING SYSTEM**  
**GPSSU 1**

Incorporates  
▶ 34-1767 R01

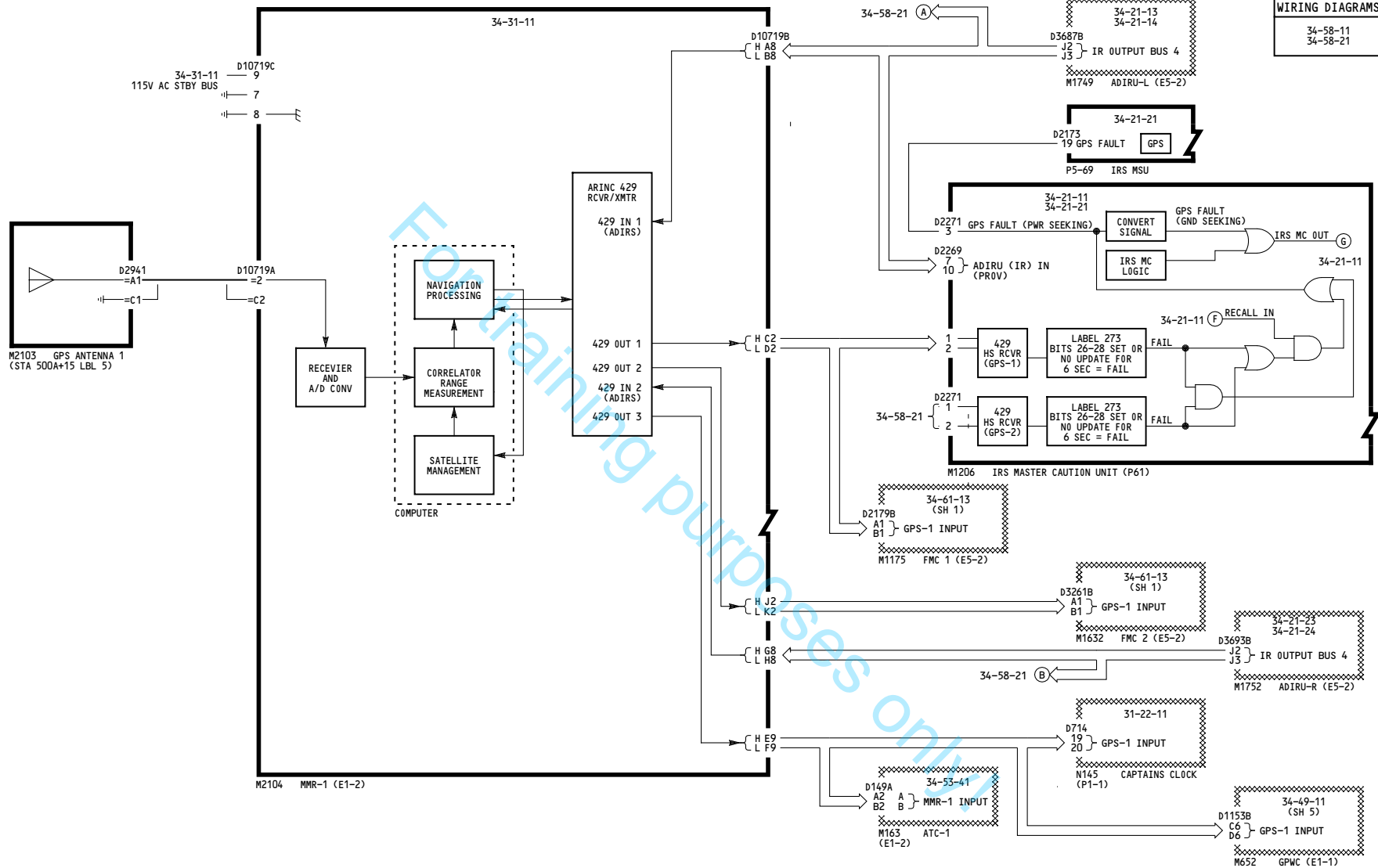
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**WIRING DIAGRAMS**  
34-58-11  
34-58-21



YD006

**GLOBAL POSITIONING SYSTEM  
GPSSU 1**

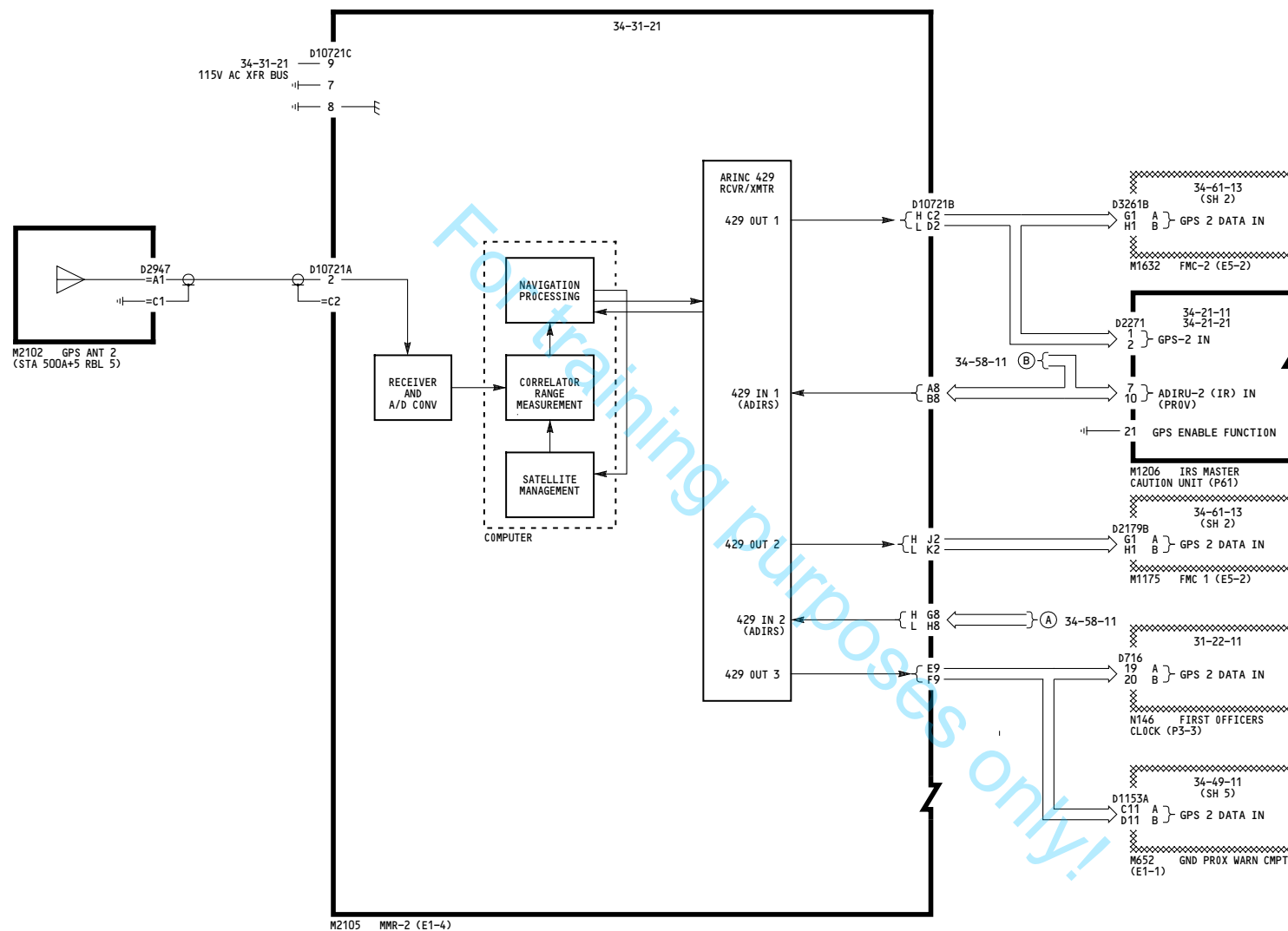
Incorporates  
34-1819

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**34-58-11**

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YD001-YD007

**GLOBAL POSITIONING SYSTEM  
GPSSU 2**

D280A238

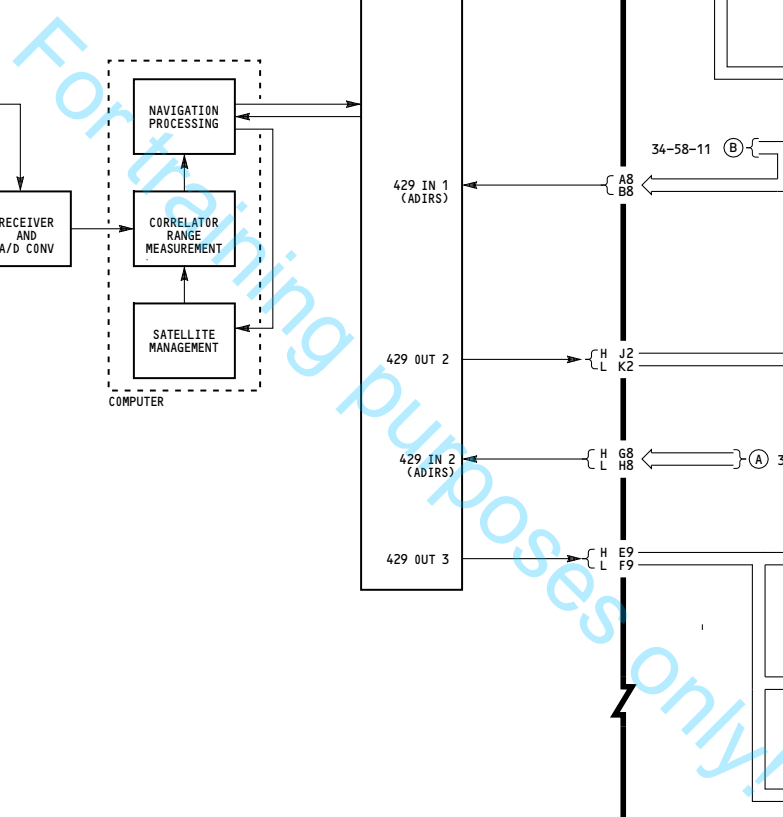
**34-58-21**

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34-58-21



**GLOBAL POSITIONING SYSTEM  
GPSSU 2**

Incorporates  
▶ 34-1767 R01

**34-58-21**

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WIRING DIAGRAMS
34-58-11 34-58-21



Incorporates  
▶ 34-1819

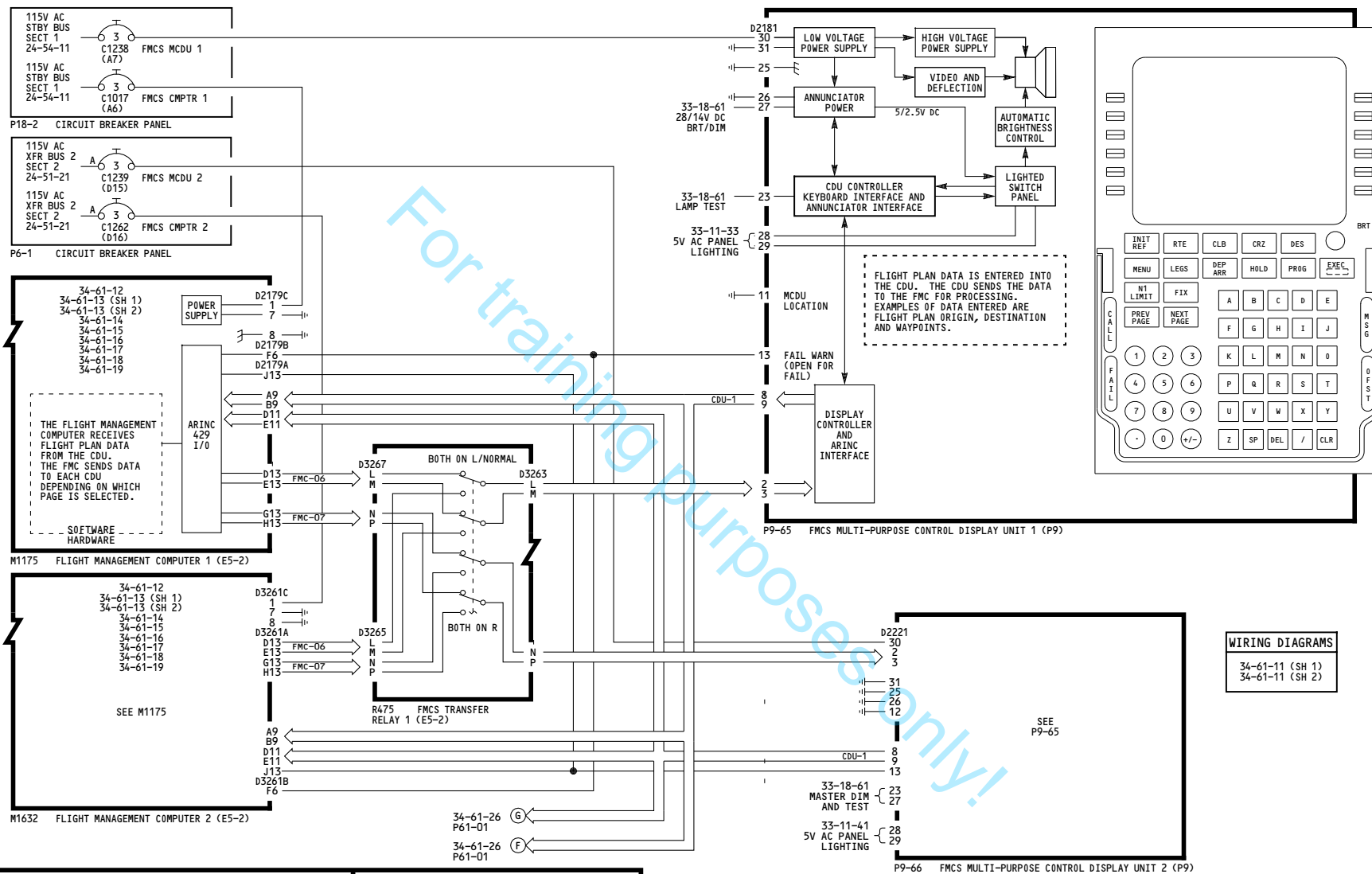
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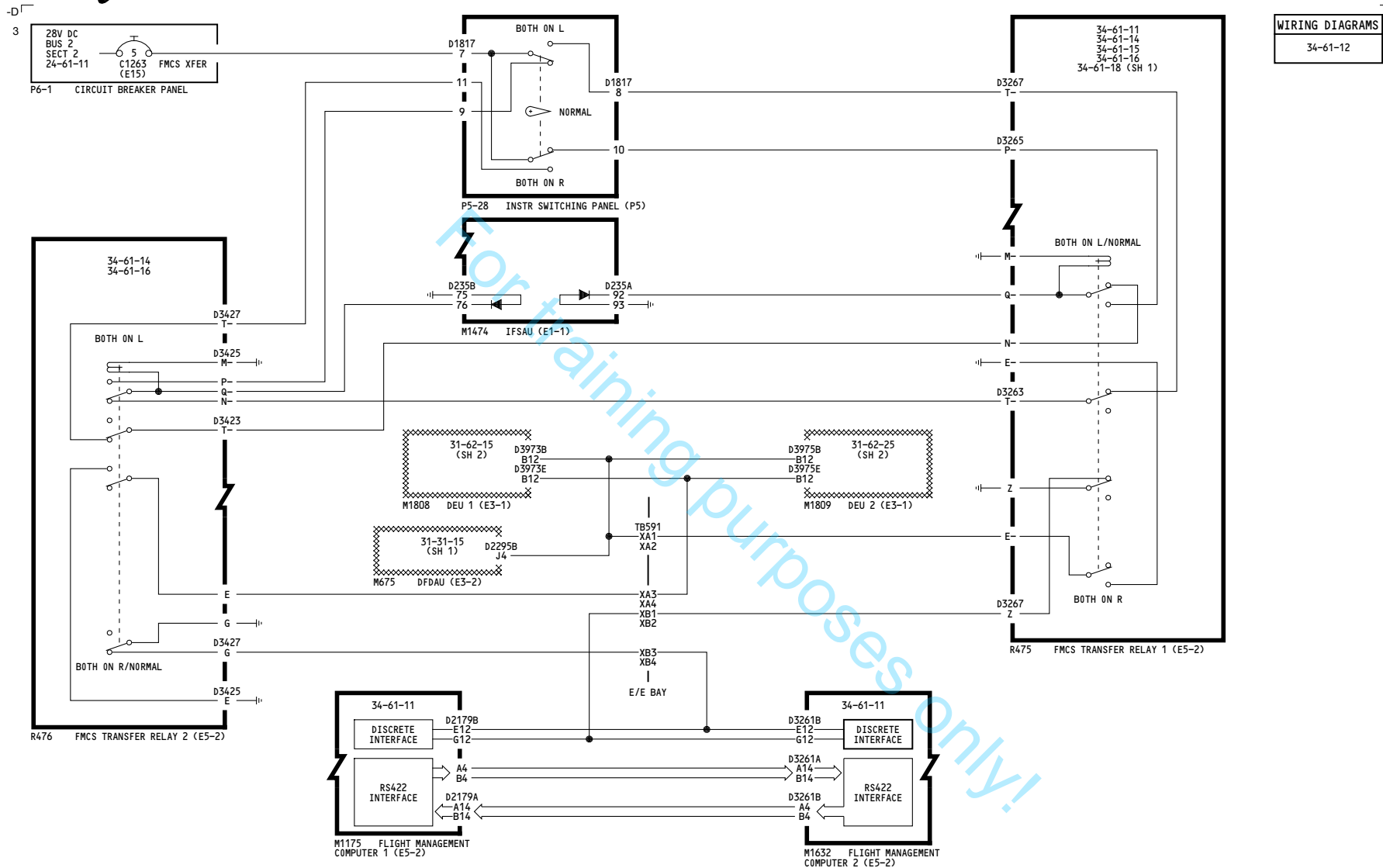
FMCS POWER AND DISPLAY

D280A238

**34-61-11**

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YD001-YD005

## FMCS SWITCHING AND INTER-SYSTEM BUS

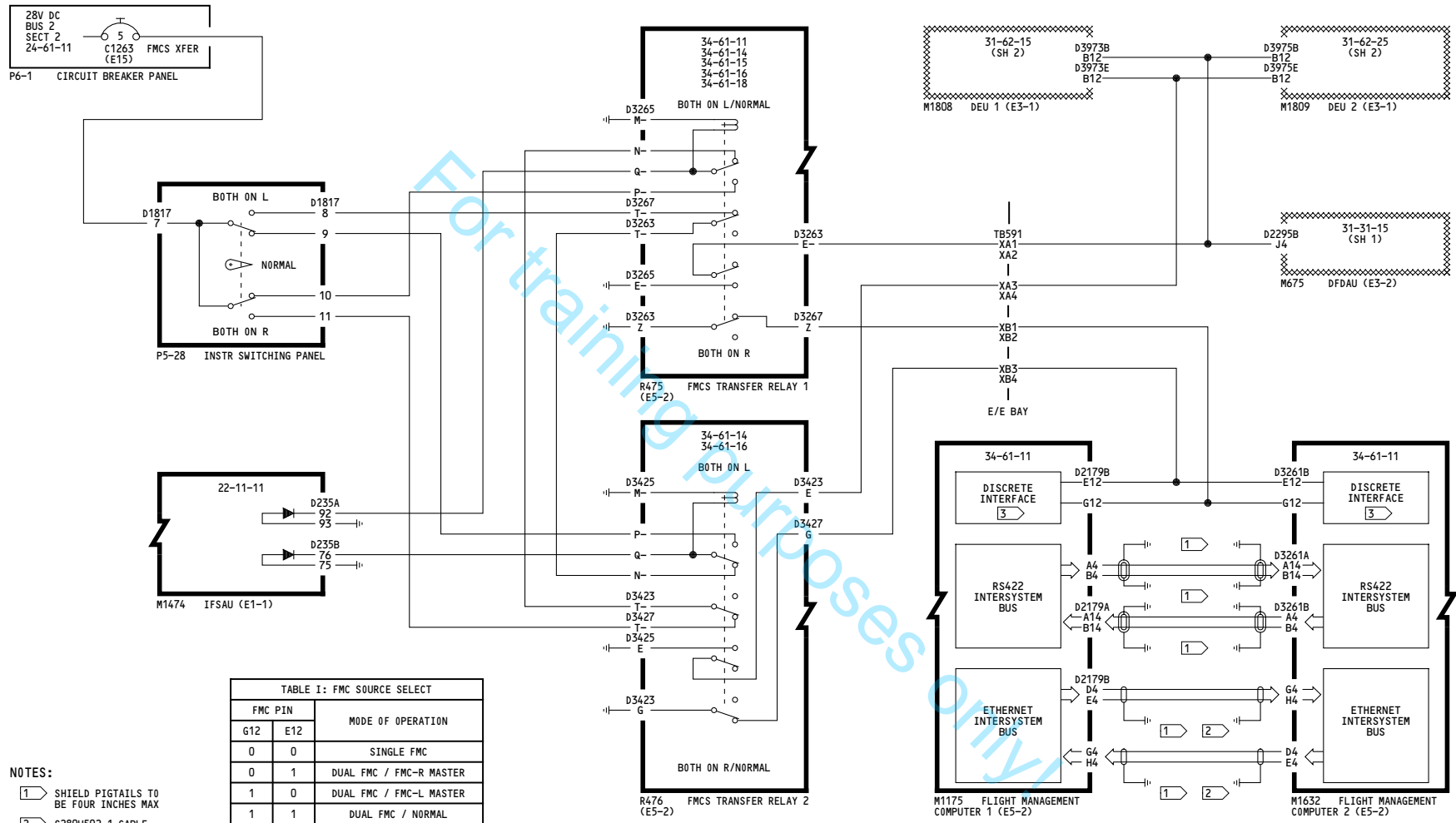
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**34-61-12**

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11



YD006-YD020

**FMCS SWITCHING AND  
INTER-SYSTEM BUS**

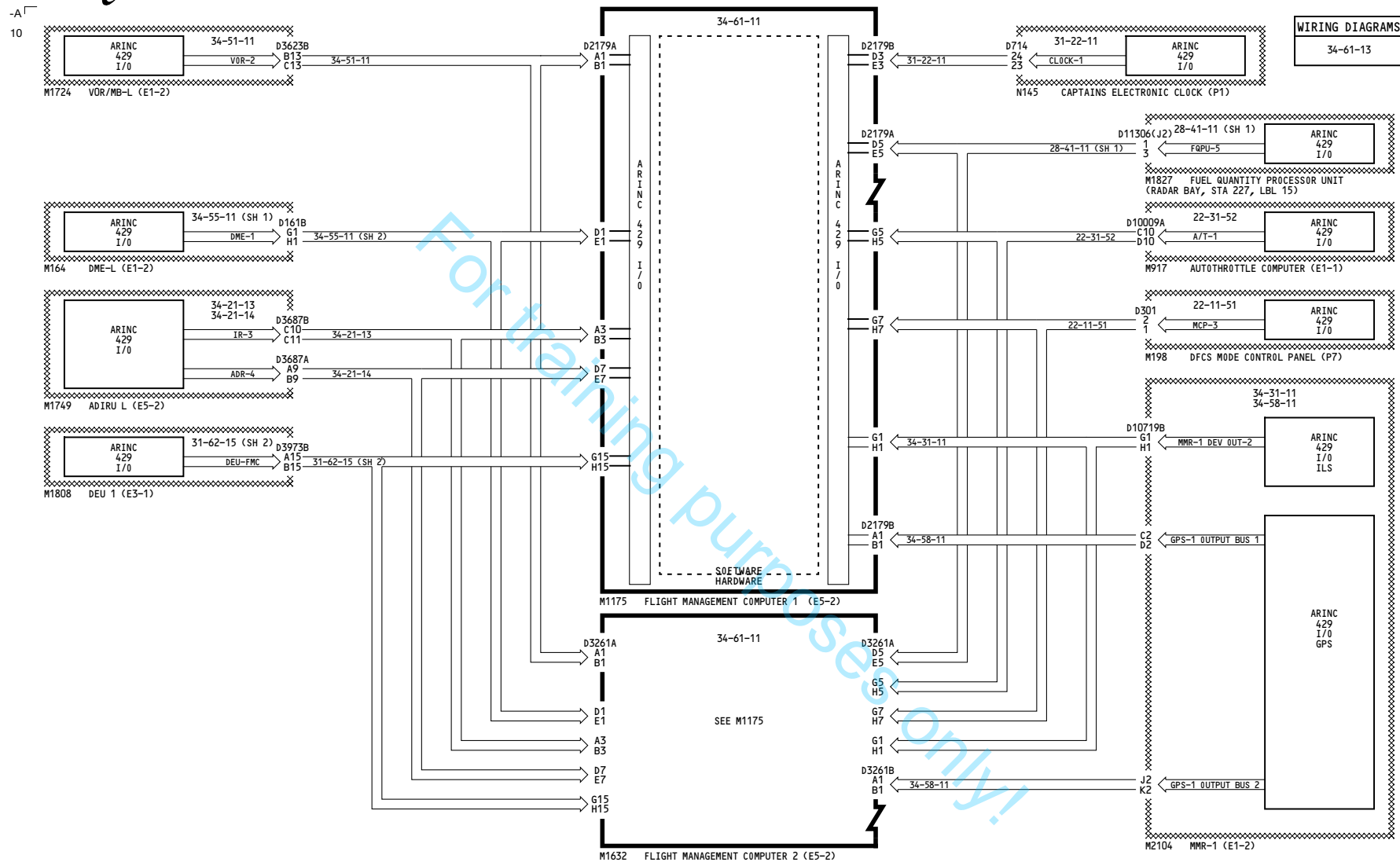
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**34-61-12**

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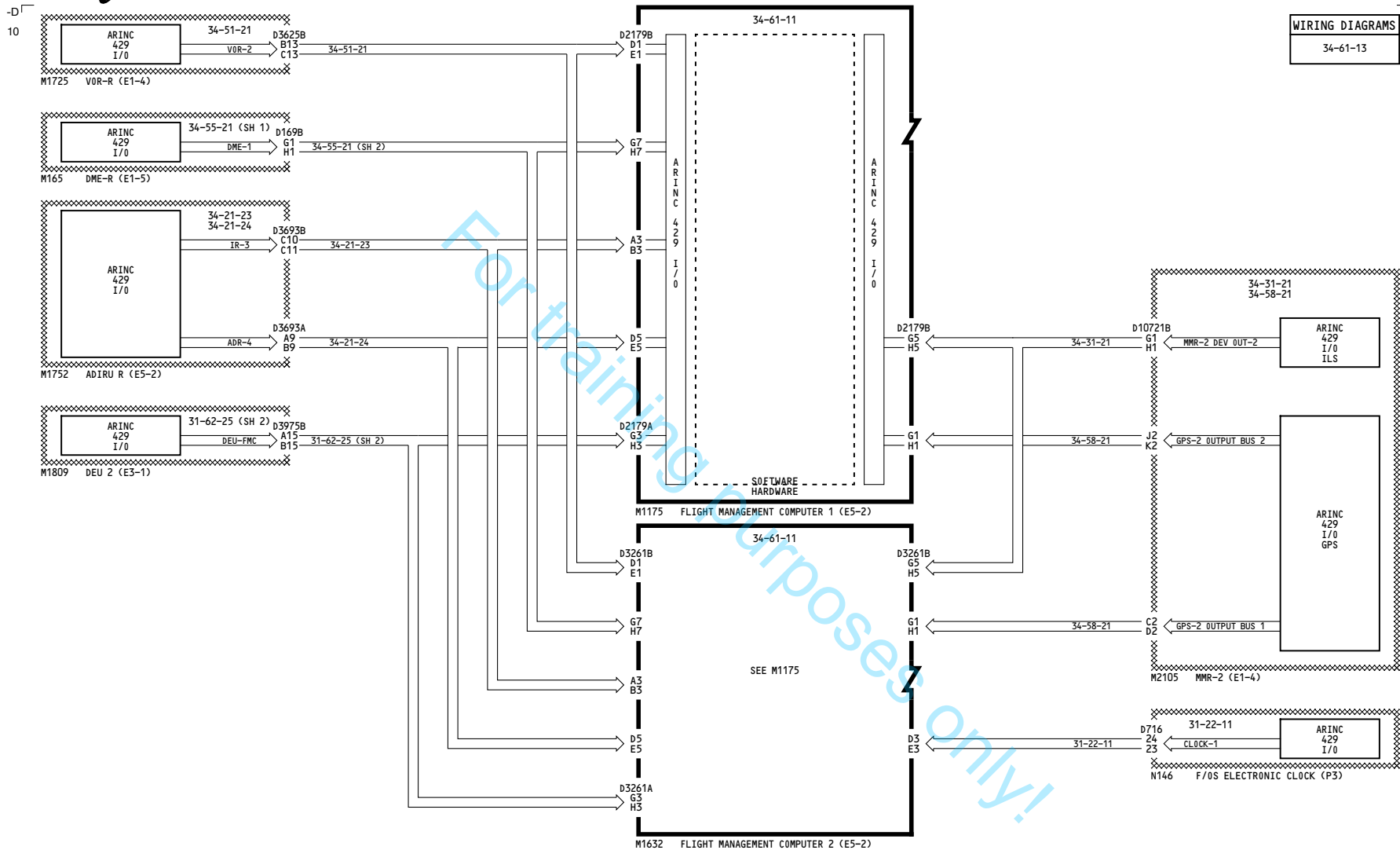
YD001-YD006

FMCS ARINC 429 INPUTS

34-61-13

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Jan 11/2006

D280A238



YD001-YD006

## FMCS ARINC 429 INPUTS

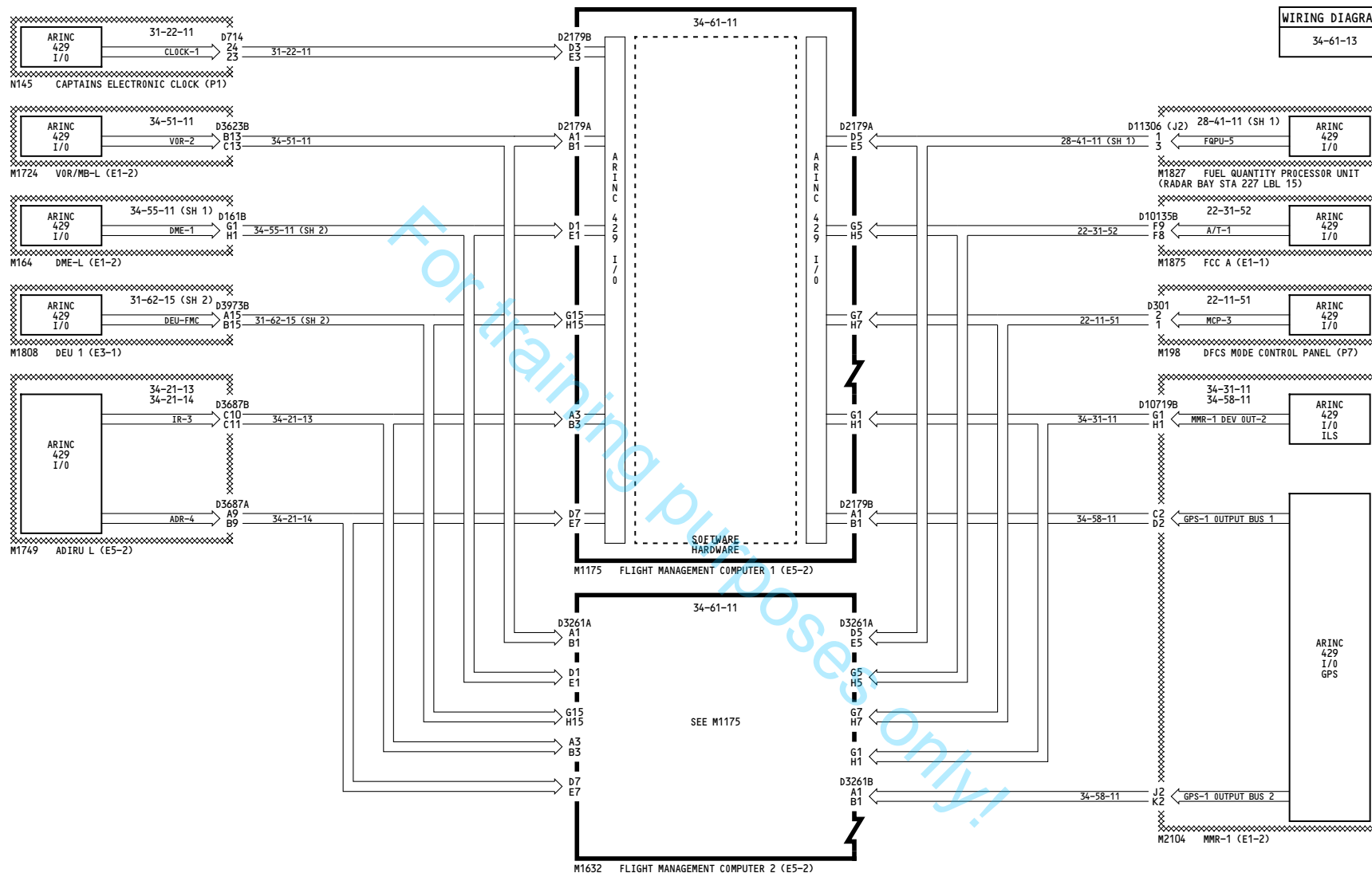
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**34-61-13**

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WIRING DIAGRAMS  
34-61-13



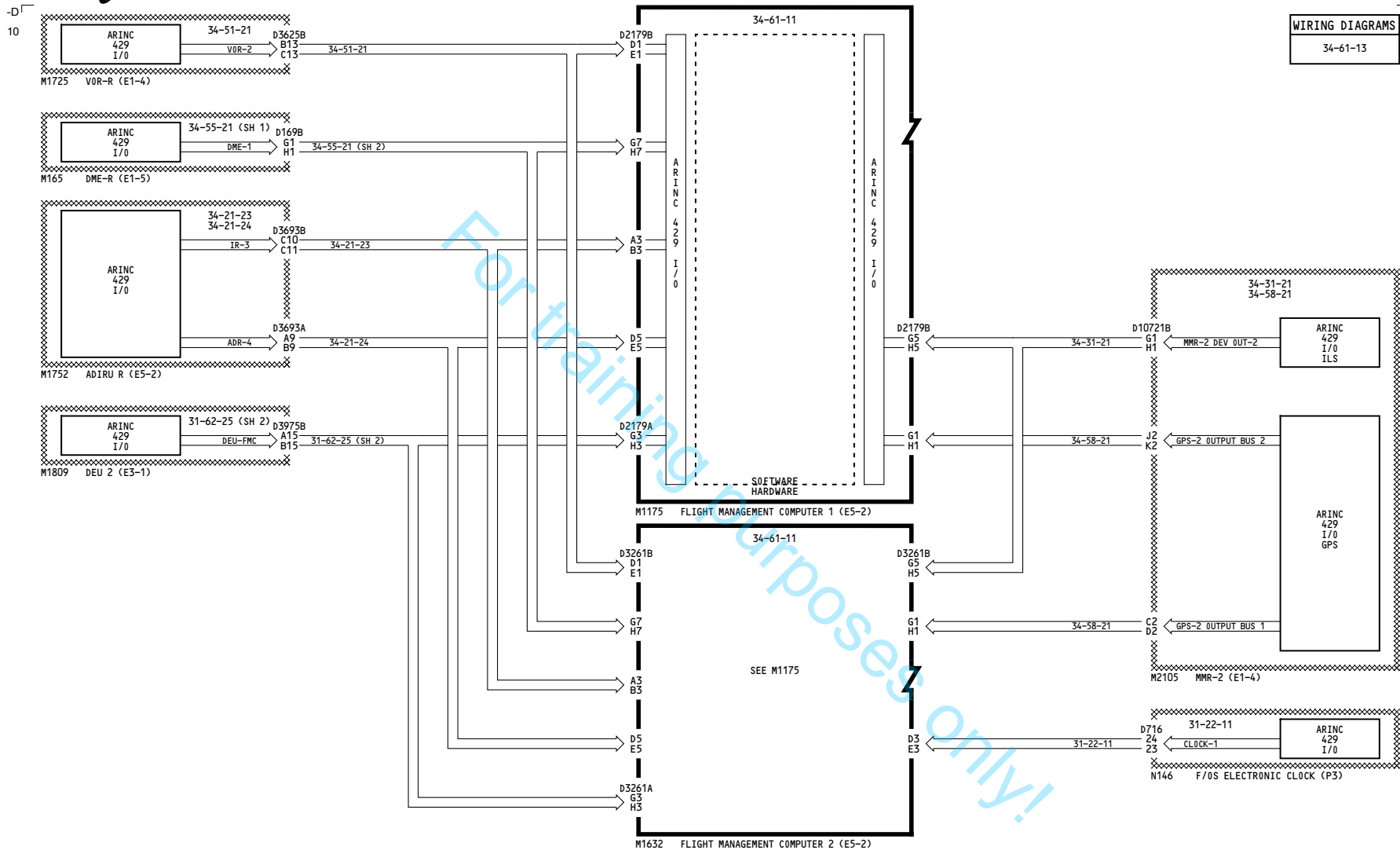
YD007-YD020

FMCS ARINC 429 INPUTS

34-61-13

D280A238

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YD007-YD020

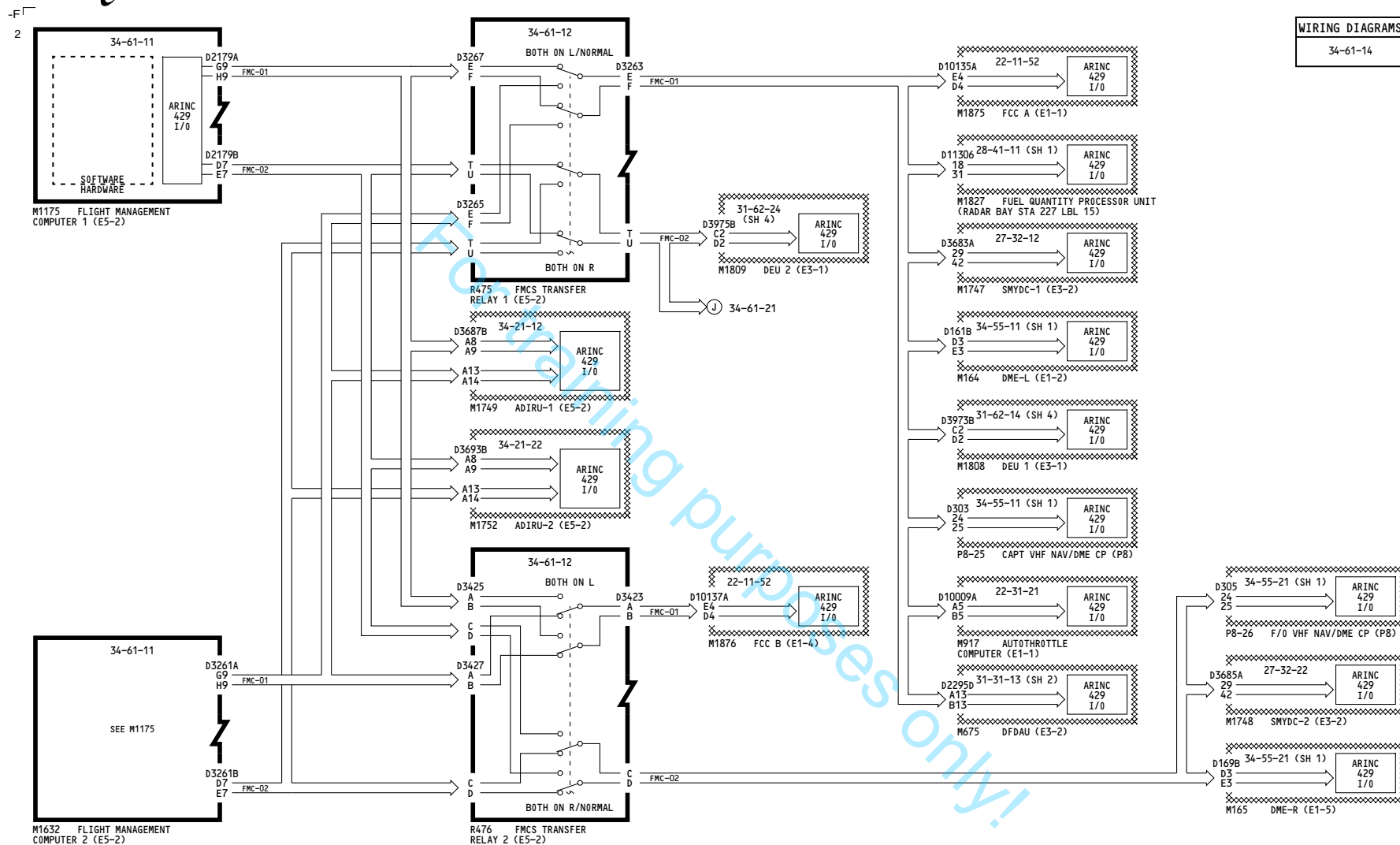
## FMCS ARINC 429 INPUTS

D280A238

**34-61-13**

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YD001-YD006

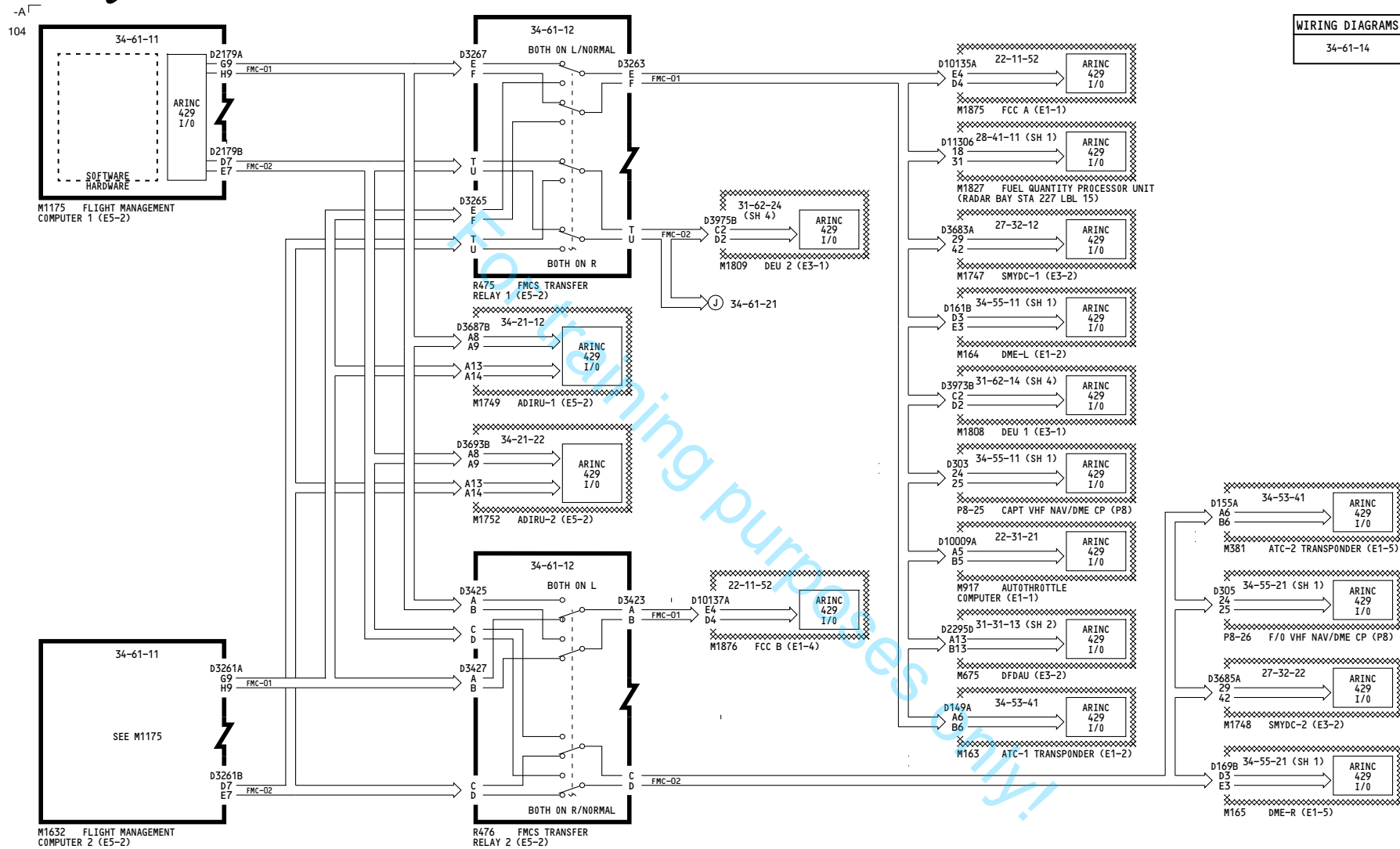
## FMCS GENERAL OUTPUT BUSES FMC-01 AND FMC-02

D280A238

### 34-61-14

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YD001-YD005

**FMCS GENERAL OUTPUT BUSES  
FMC-01 AND FMC-02**

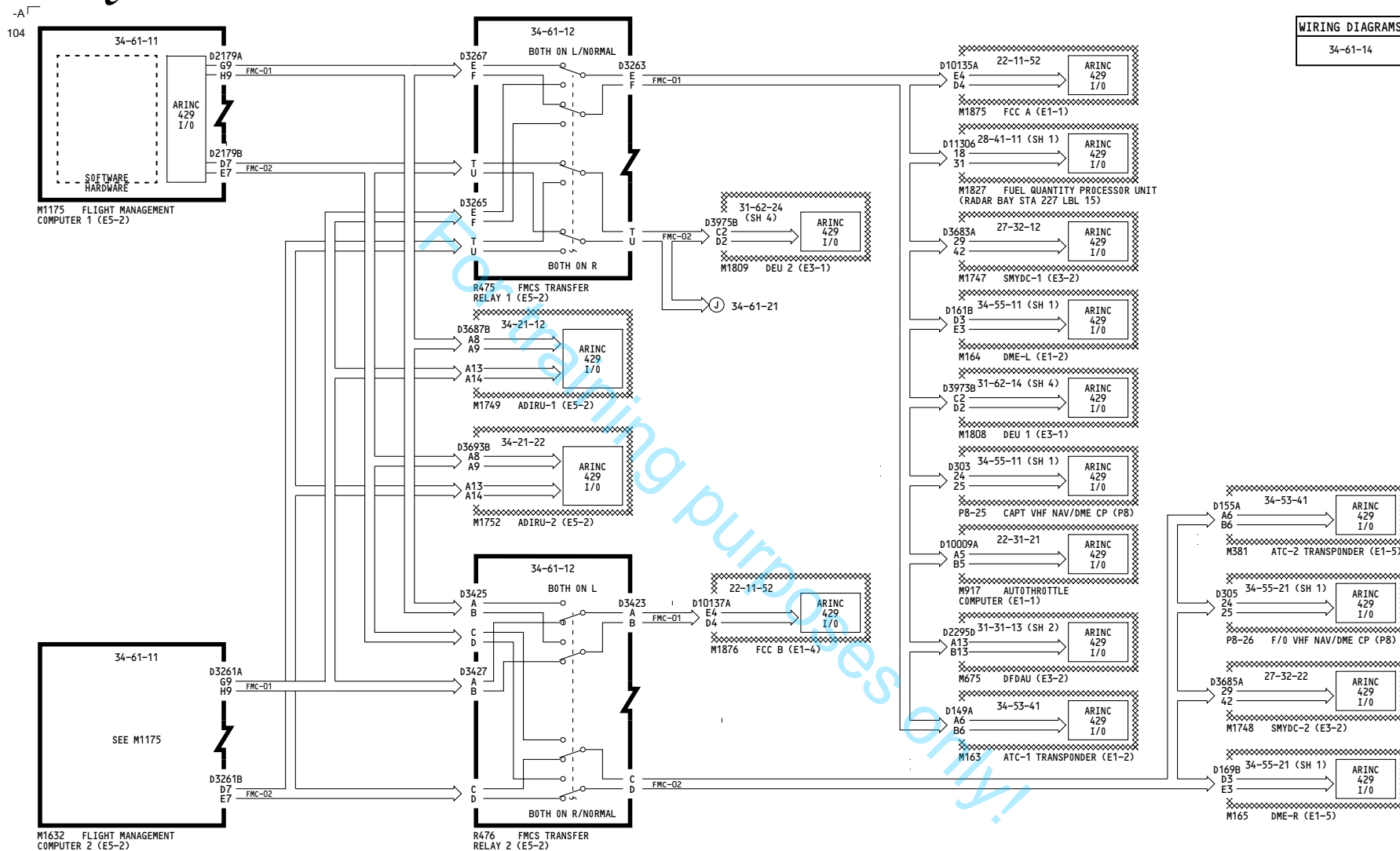
Incorporates  
34-1767 R01

D280A238

**34-61-14**

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YD006

**FMCS GENERAL OUTPUT BUSES  
FMC-01 AND FMC-02**

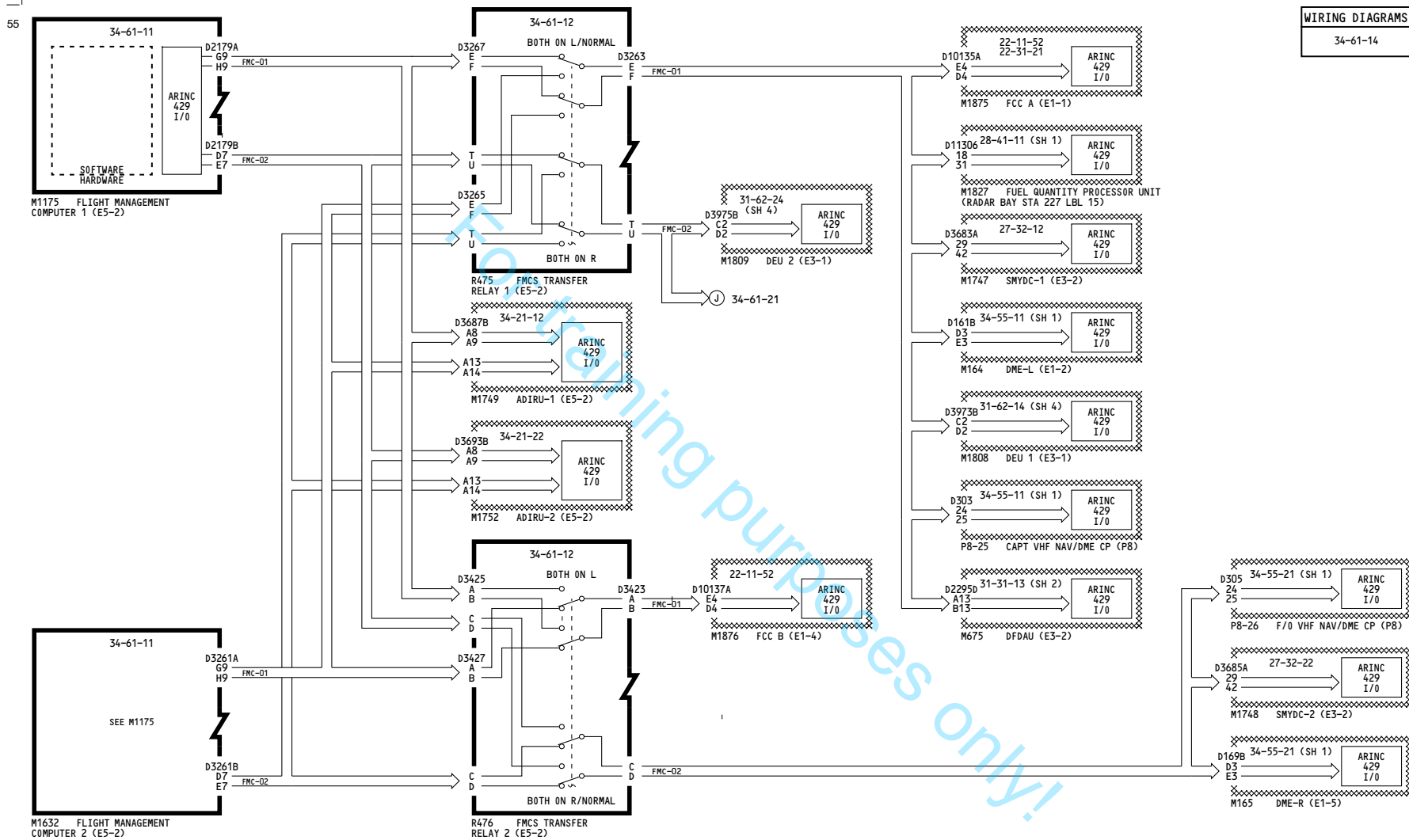
Incorporates  
34-1819

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**34-61-14**

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YD007

## FMCS GENERAL OUTPUT BUSES FMC-01 AND FMC-02

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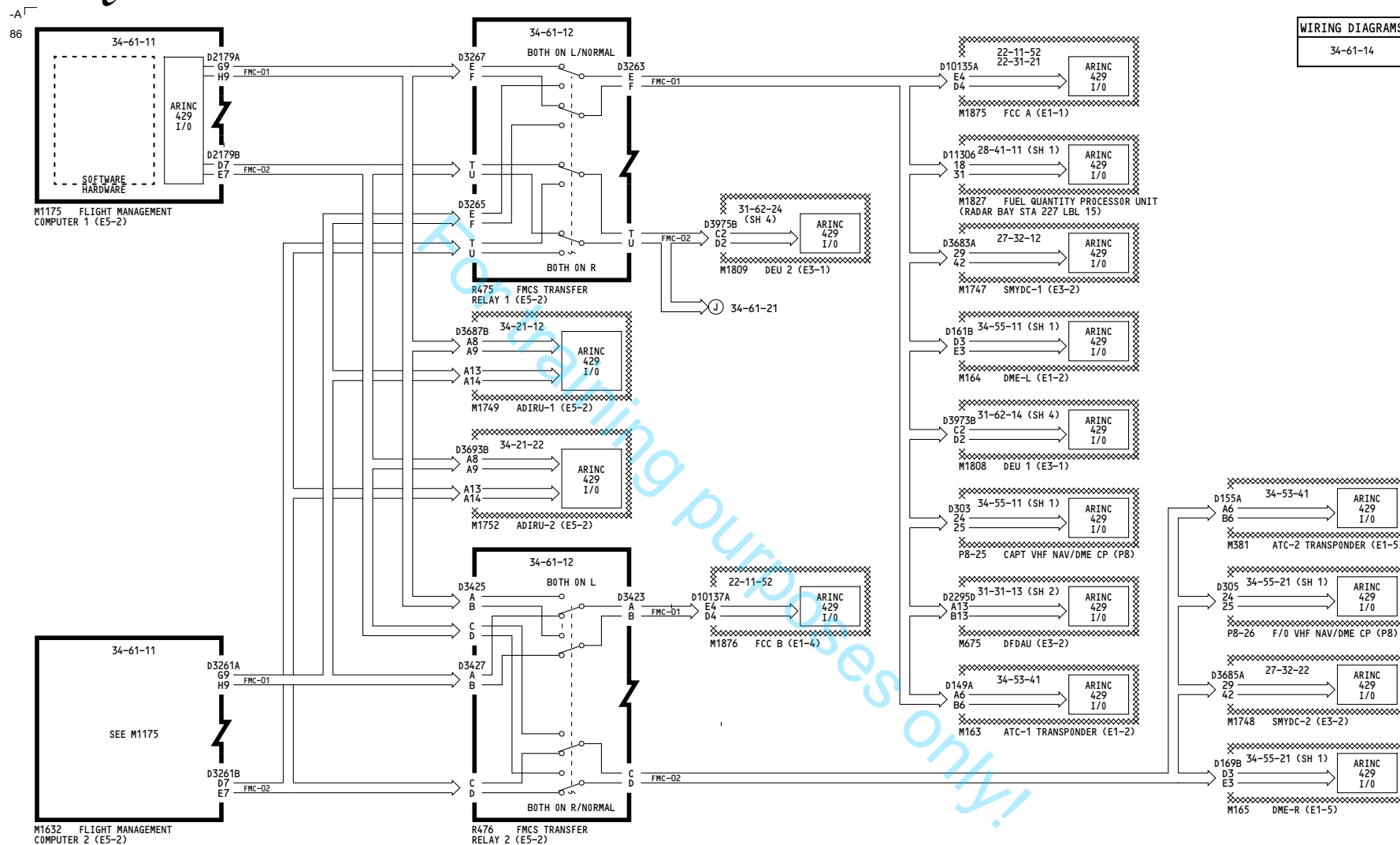
## 34-61-14

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## WIRING DIAGRAMS

34-61-14



YD007

## FMCS GENERAL OUTPUT BUSES FMC-01 AND FMC-02

Incorporates  
▶ 34-1767 R01

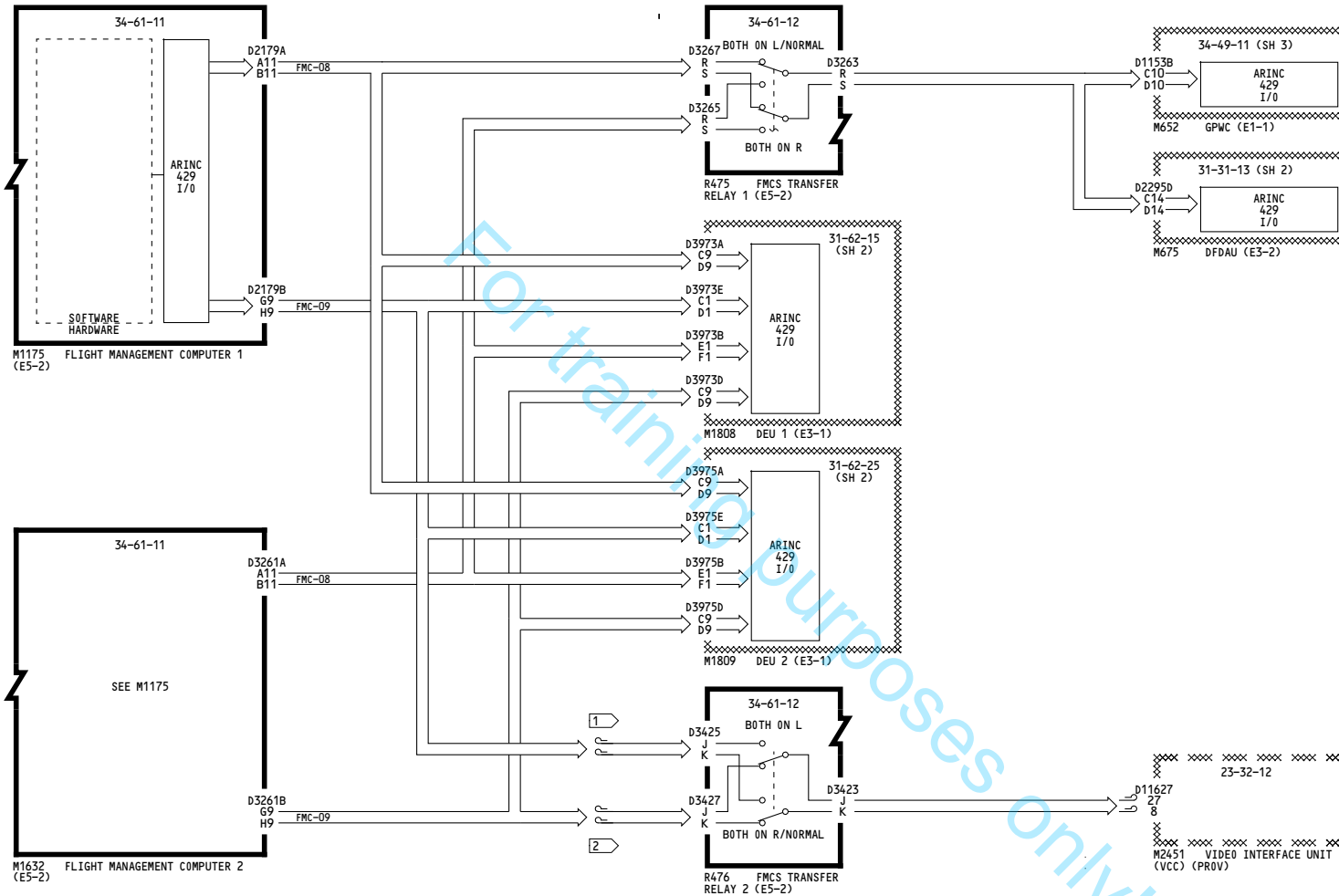
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**NOTES:**

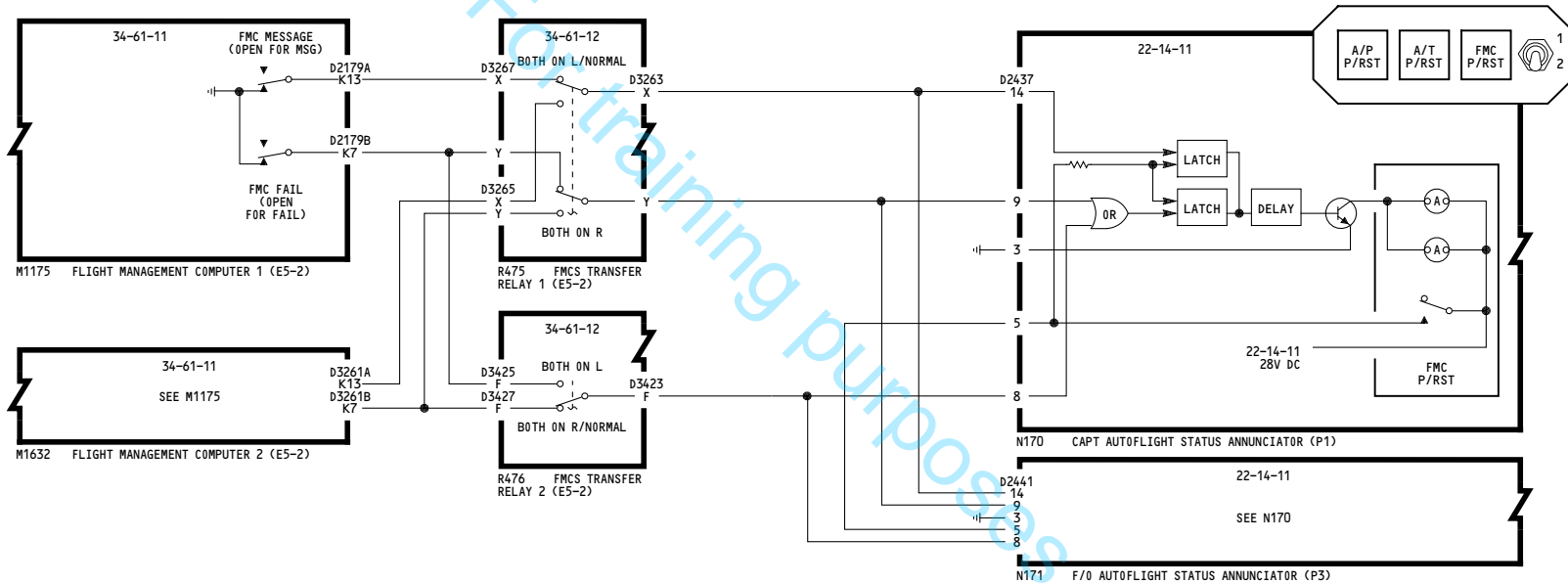
- ① CAP & STOW NEAR TB522, YA11 / YB11
- ② CAP & STOW NEAR TB521, YA9 / YB9

ALL	<b>FMCS OUTPUT BUSSES FMC-08 AND FMC-09</b>
	D280A238

**34-61-15**

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ALL	FMCS MESSAGE AND FAIL STATUS
	D280A238

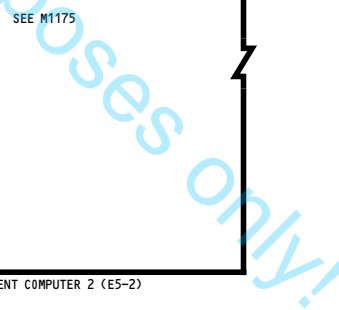
**34-61-16**

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## WIRING DIAGRAMS

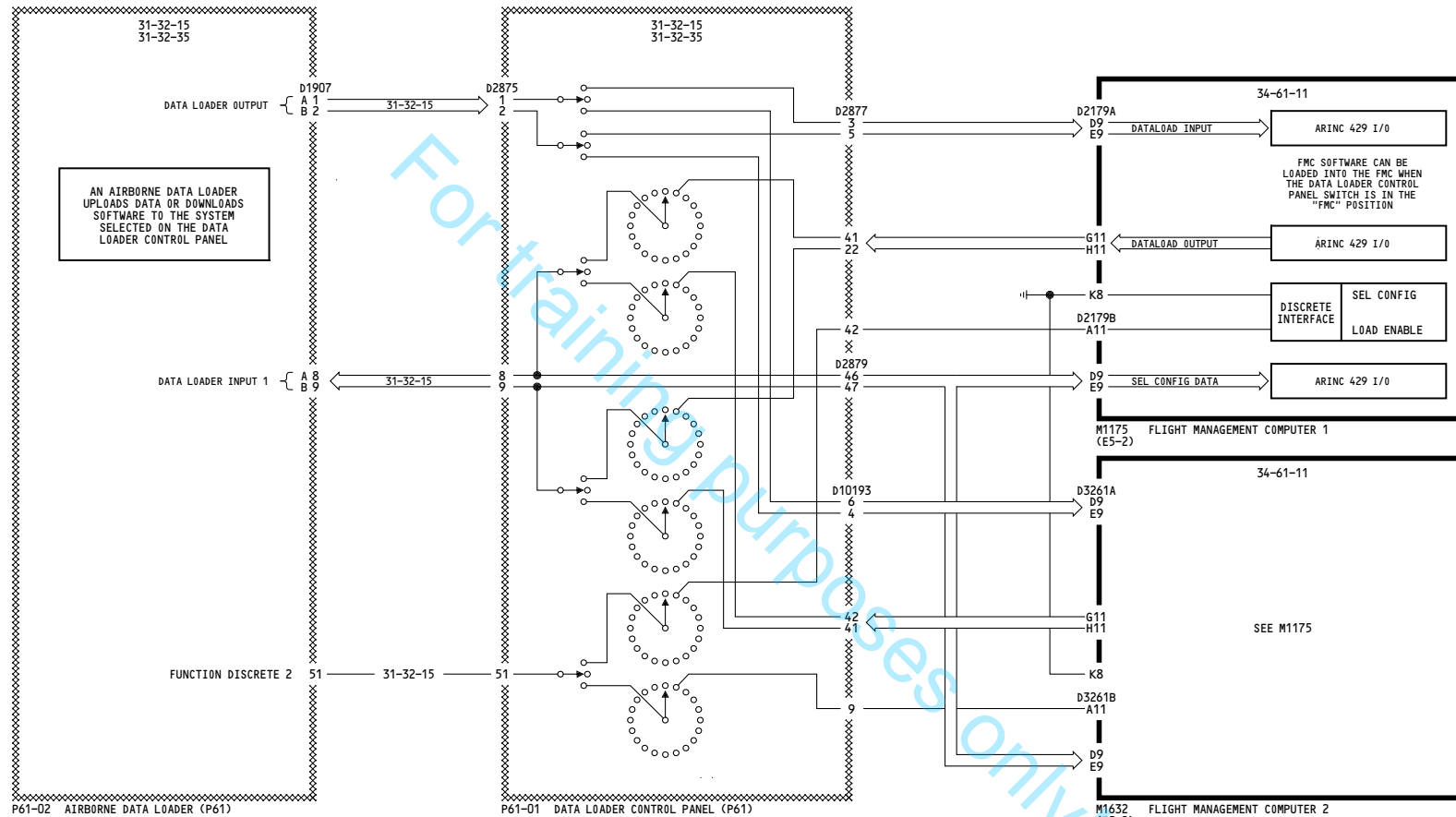


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WIRING DIAGRAMS	
31-32-15 (SH 1)	
31-32-15 (SH 3)	
34-61-18 (SH 1)	
34-61-18 (SH 2)	



ALL	<b>FMCS/DATA LOADER INTERFACE</b>
	D280A238

**34-61-18**

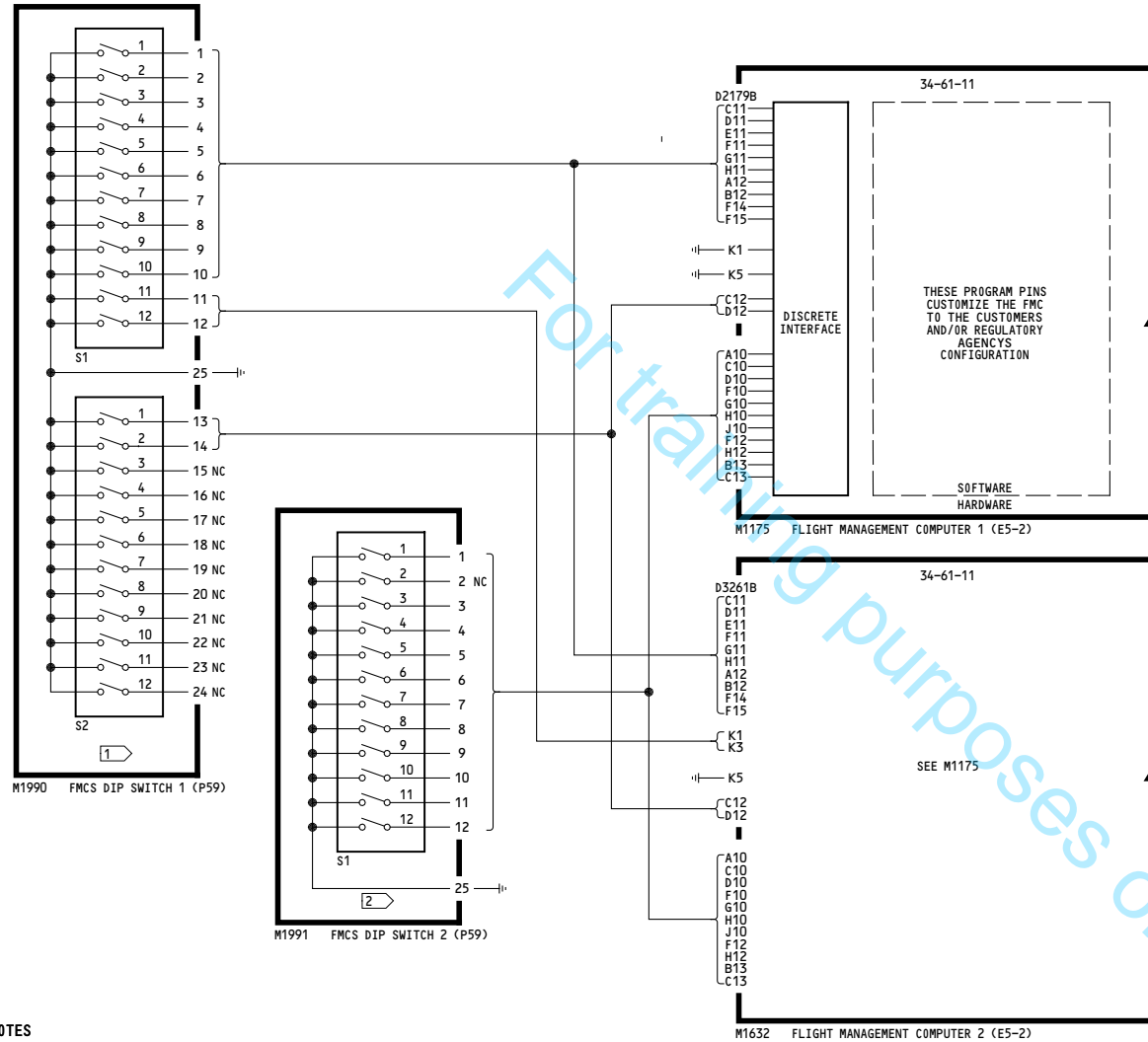
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**WIRING DIAGRAMS**

34-61-19 (SH 1)  
34-61-19 (SH 2)



**TABLE I: M1990 DIP SWITCH SETTINGS**

DIP SW	FMC PIN	GROUND	OPEN	SET TO
S1/1	C11			0
S1/2	D11	AIRPLANE MODEL/THRUST RATING		
S1/3	E11	737-800 27,000 LBS THRUST CAT_C BRAKES		
S1/4	F11			
S1/5	G11			
S1/6	H11			
S1/7	A12	ALWAYS SET TO 1	N/A	1
S1/8	B12	PARITY (ODD) FOR S1/1 TO S1/8, S2/1 TO S2/2		
S1/9	F14	ASPIRATED TAT PROBE INSTALLED	NOT INSTALLED	0
S1/10	F15	PERFORMANCE OPTION 1	PERFORMANCE OPTION 0	1
S1/11	K1	FMC-2 SDI SET TO "LEFT" FOR SINGLE FMC	NORMAL FMC-2 SDI FOR DUAL FMC	0
S1/12	K3	NORMAL FMC-2 SDI FOR DUAL FMC	FMC-2 SDI SET TO "LEFT" FOR SINGLE FMC	1
S2/1	C12	AIRPLANE MODEL/THRUST RATING (CONT.)		
S2/2	D12			

**TABLE II: M1991 DIP SWITCH SETTINGS**

DIP SW	FMC PIN	GROUND	OPEN	SET TO
S1/1	A10	ACARS INSTALLED	NOT INSTALLED	0
S1/3	C10	SELECTED COURSE RADIAL INHIBIT ON EFIS	NOT INHIBITED	0
S1/4	D10	DEGREES F DEFAULT	DEGREES C DEFAULT	0
S1/5	F10	VOR TUNING INHIBITED	NOT INHIBITED	0
S1/6	G10	FLIGHT NUMBER ENTRY	NO ENTRY	1
S1/7	H10	ALWAYS SET TO 1	N/A	1
S1/8	J10	RUNWAY POSITION UPDATE ON TO/GA	RUNWAY POSITION UPDATE VIA CDU	1
S1/9	F12	QRH TAKEOFF SPEEDS	NO TAKEOFF SPEEDS	0
S1/10	H12	TAKEOFF PROFILE	NO OPTION	0
S1/11	B13	KILOGRAM OPTION	WEIGHTS IN POUNDS	1
S1/12	C13	JAA FLIGHT RULES	FAA FLIGHT RULES	1

**NOTES**

- 1 SEE TABLE I  
2 SEE TABLE II

YD001-YD005

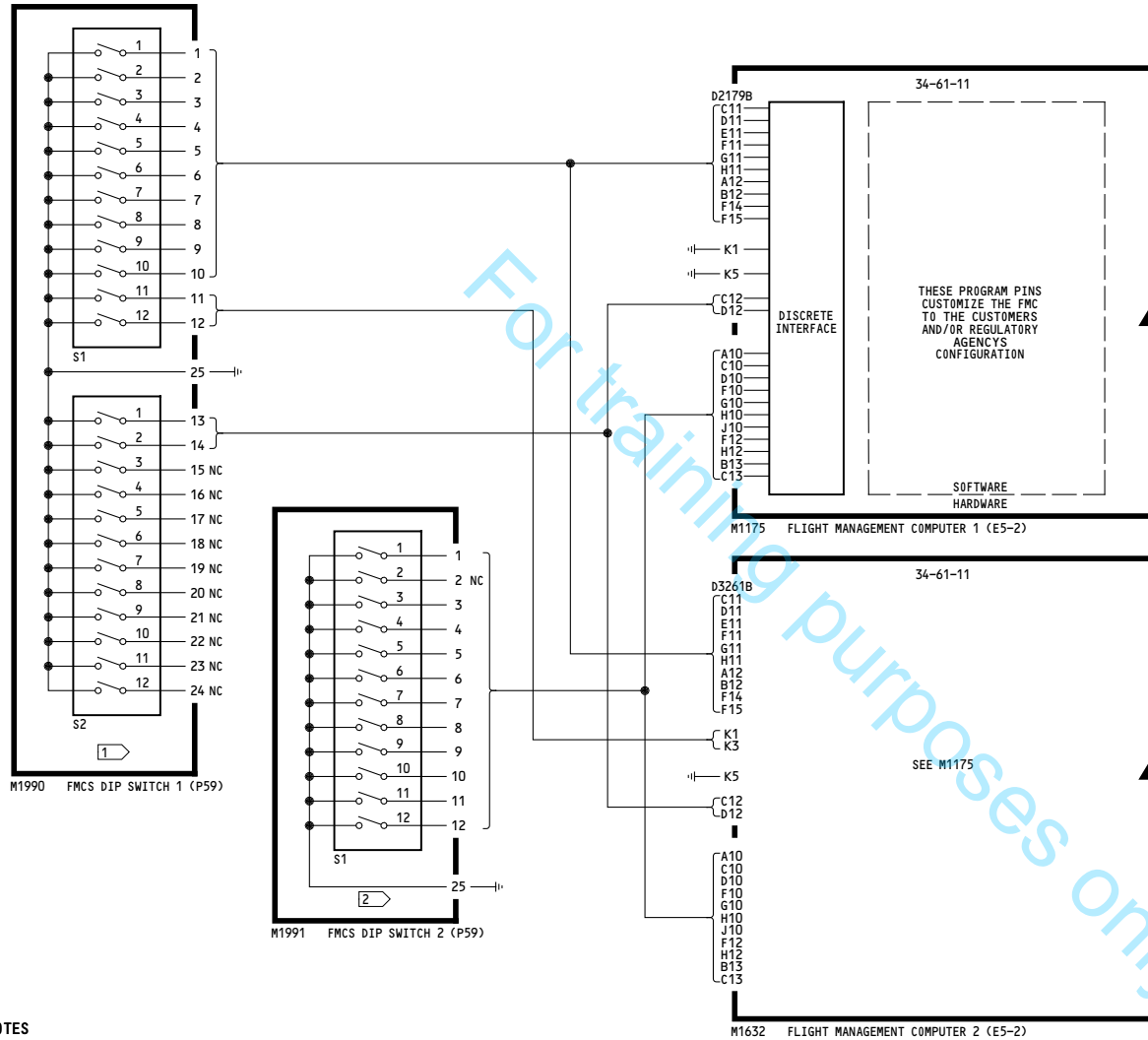
**FMCS PROGRAM PINS**

D280A238

**34-61-19**

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**NOTES**

- 1 SEE TABLE I  
2 SEE TABLE II

**TABLE I: M1990 DIP SWITCH SETTINGS**

DIP SW	FMC PIN	GROUND	OPEN	SET TO
S1/1	C11			0
S1/2	D11	737-800 27,000 LBS THRUST CAT_C BRAKES		1
S1/3	E11			0
S1/4	F11			0
S1/5	G11			0
S1/6	H11			1
S1/7	A12	ALWAYS SET TO 1	N/A	1
S1/8	B12	PARITY (ODD) FOR S1/1 TO S1/8, S2/1 TO S2/2		0
S1/9	F14	ASPIRATED TAT PROBE INSTALLED	NOT INSTALLED	0
S1/10	F15	PERFORMANCE OPTION 1	PERFORMANCE OPTION 0	1
S1/11	K1	FMC-2 SDI SET TO "LEFT" FOR SINGLE FMC	NORMAL FMC-2 SDI FOR DUAL FMC	0
S1/12	K3	NORMAL FMC-2 SDI FOR DUAL FMC	FMC-2 SDI SET TO "LEFT" FOR SINGLE FMC	1
S2/1	C12	AIRPLANE MODEL/THRUST RATING (CONT.)		0
S2/2	D12			0

**TABLE II: M1991 DIP SWITCH SETTINGS**

DIP SW	FMC PIN	GROUND	OPEN	SET TO
S1/1	A10	ACARS INSTALLED	NOT INSTALLED	1
S1/3	C10	SELECTED COURSE RADIAL INHIBIT ON EFIS	NOT INHIBITED	0
S1/4	D10	DEGREES F DEFAULT	DEGREES C DEFAULT	0
S1/5	F10	VOR TUNING INHIBITED	NOT INHIBITED	0
S1/6	G10	FLIGHT NUMBER ENTRY	NO ENTRY	1
S1/7	H10	ALWAYS SET TO 1	N/A	1
S1/8	J10	RUNWAY POSITION UPDATE ON TO/GA	RUNWAY POSITION UPDATE VIA CDU	1
S1/9	F12	QRH TAKEOFF SPEEDS	NO TAKEOFF SPEEDS	0
S1/10	H12	TAKEOFF PROFILE	NO OPTION	0
S1/11	B13	KILOGRAM OPTION	WEIGHTS IN POUNDS	1
S1/12	C13	JAA FLIGHT RULES	FAA FLIGHT RULES	1

YD001-YD005

**FMCS PROGRAM PINS**

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**34-61-19**

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WIRING DIAGRAMS  
34-61-19 (SH 1)  
34-61-19 (SH 2)

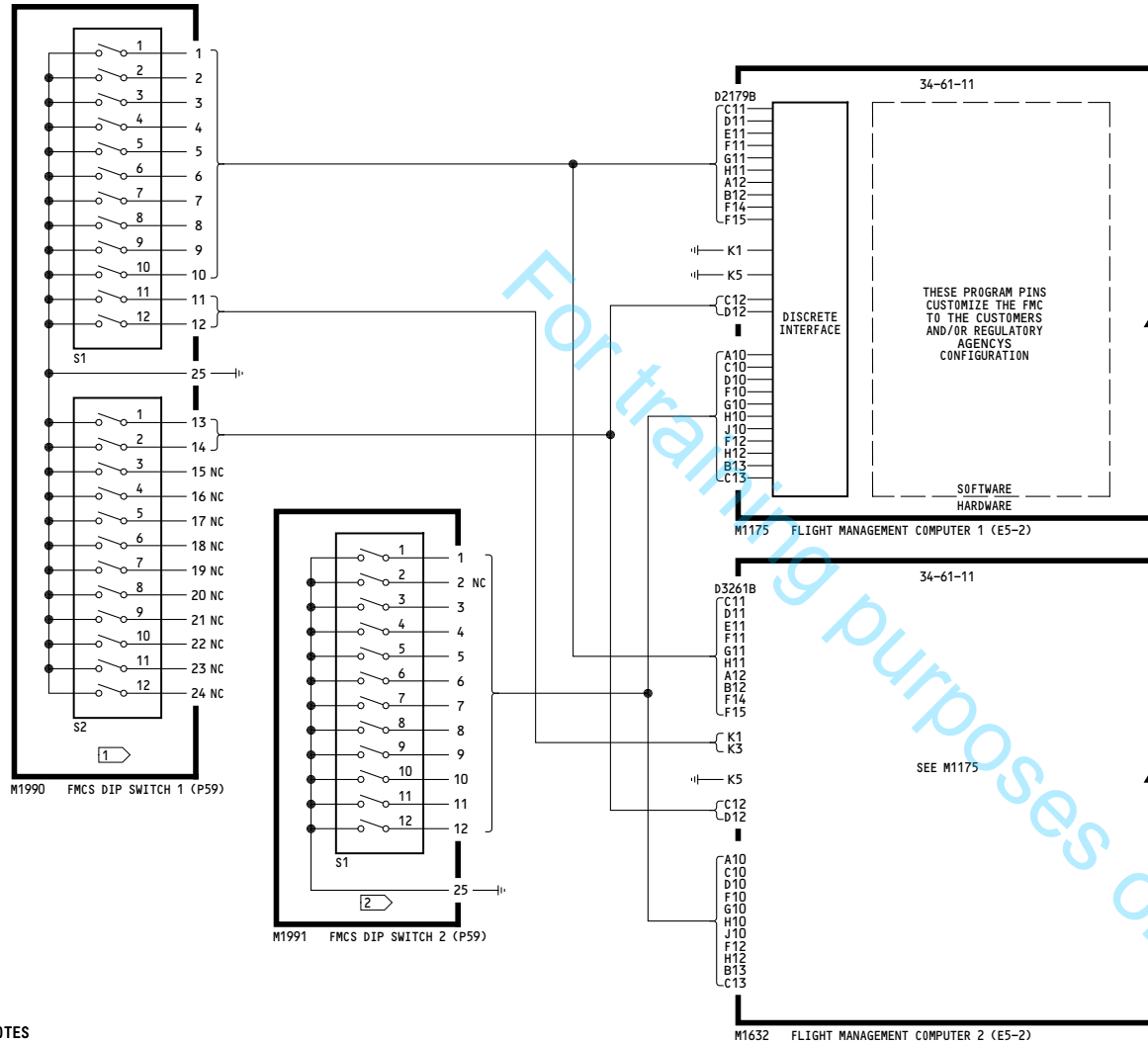


TABLE I: M1990 DIP SWITCH SETTINGS				
DIP SW	FMC PIN	GROUND	OPEN	SET TO
S1/1	C11			0
S1/2	D11	AIRPLANE MODEL/THRUST RATING  737-800 27,000 LBS THRUST CAT_C BRAKES		1
S1/3	E11			0
S1/4	F11			0
S1/5	G11			0
S1/6	H11			1
S1/7	A12	ALWAYS SET TO 1	N/A	1
S1/8	B12	PARITY (ODD) FOR S1/1 TO S1/8, S2/1 TO S2/2		0
S1/9	F14	ASPIRATED TAT PROBE INSTALLED	NOT INSTALLED	0
S1/10	F15	PERFORMANCE OPTION 1	PERFORMANCE OPTION 0	1
S1/11	K1	FMC-2 SDI SET TO "LEFT" FOR SINGLE FMC	NORMAL FMC-2 SDI FOR DUAL FMC	0
S1/12	K3	NORMAL FMC-2 SDI FOR DUAL FMC	FMC-2 SDI SET TO "LEFT" FOR SINGLE FMC	1
S2/1	C12	AIRPLANE MODEL/THRUST RATING (CONT.)		0
S2/2	D12			0

TABLE II: M1991 DIP SWITCH SETTINGS				
DIP SW	FMC PIN	GROUND	OPEN	SET TO
S1/1	A10	ACARS INSTALLED	NOT INSTALLED	1
S1/3	C10	SELECTED COURSE RADIAL INHIBIT ON EFIS	NOT INHIBITED	0
S1/4	D10	DEGREES F DEFAULT	DEGREES C DEFAULT	0
S1/5	F10	VOR TUNING INHIBITED	NOT INHIBITED	0
S1/6	G10	FLIGHT NUMBER ENTRY	NO ENTRY	1
S1/7	H10	ALWAYS SET TO 1	N/A	1
S1/8	J10	RUNWAY POSITION UPDATE ON TO/GA	RUNWAY POSITION UPDATE VIA CDU	1
S1/9	F12	QRH TAKEOFF SPEEDS	NO TAKEOFF SPEEDS	0
S1/10	H12	TAKEOFF PROFILE	NO OPTION	0
S1/11	B13	KILOGRAM OPTION	WEIGHTS IN POUNDS	1
S1/12	C13	JAA FLIGHT RULES	FAA FLIGHT RULES	1

NOTES

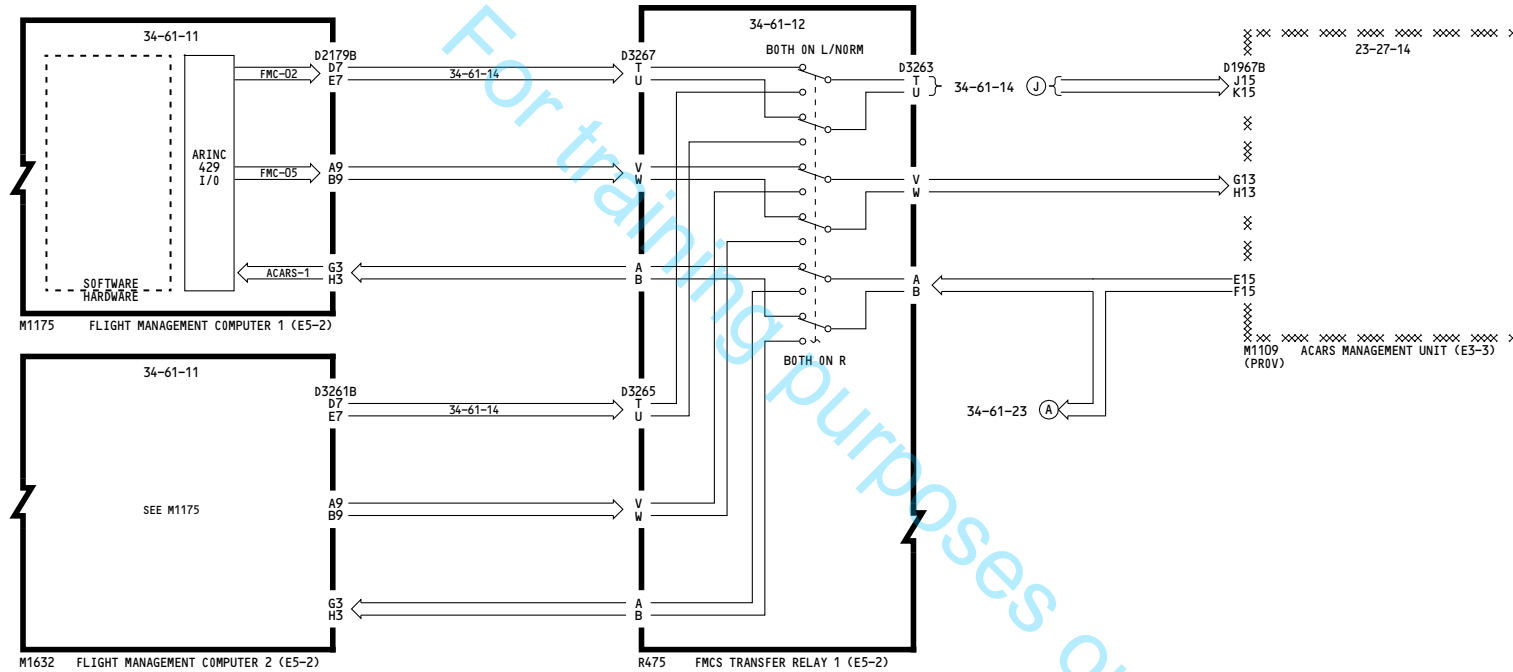
- 1 SEE TABLE I  
2 SEE TABLE II

YD006-YD007

FMCs PROGRAM PINS

D280A238

34-61-19



YD001-YD005

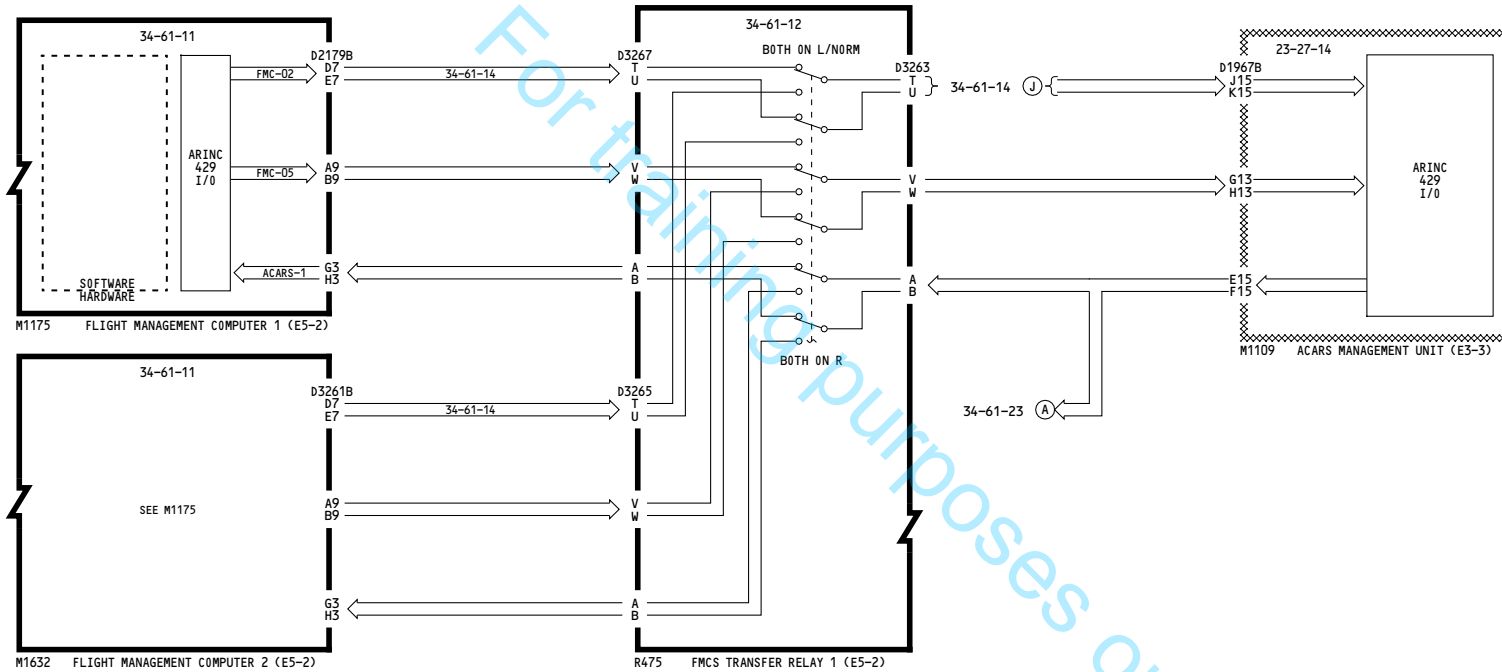
**FMCS INTERFACE  
WITH ACARS**

D280A238

**34-61-21**

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YD001-YD005

**FMCS INTERFACE  
WITH ACARS**

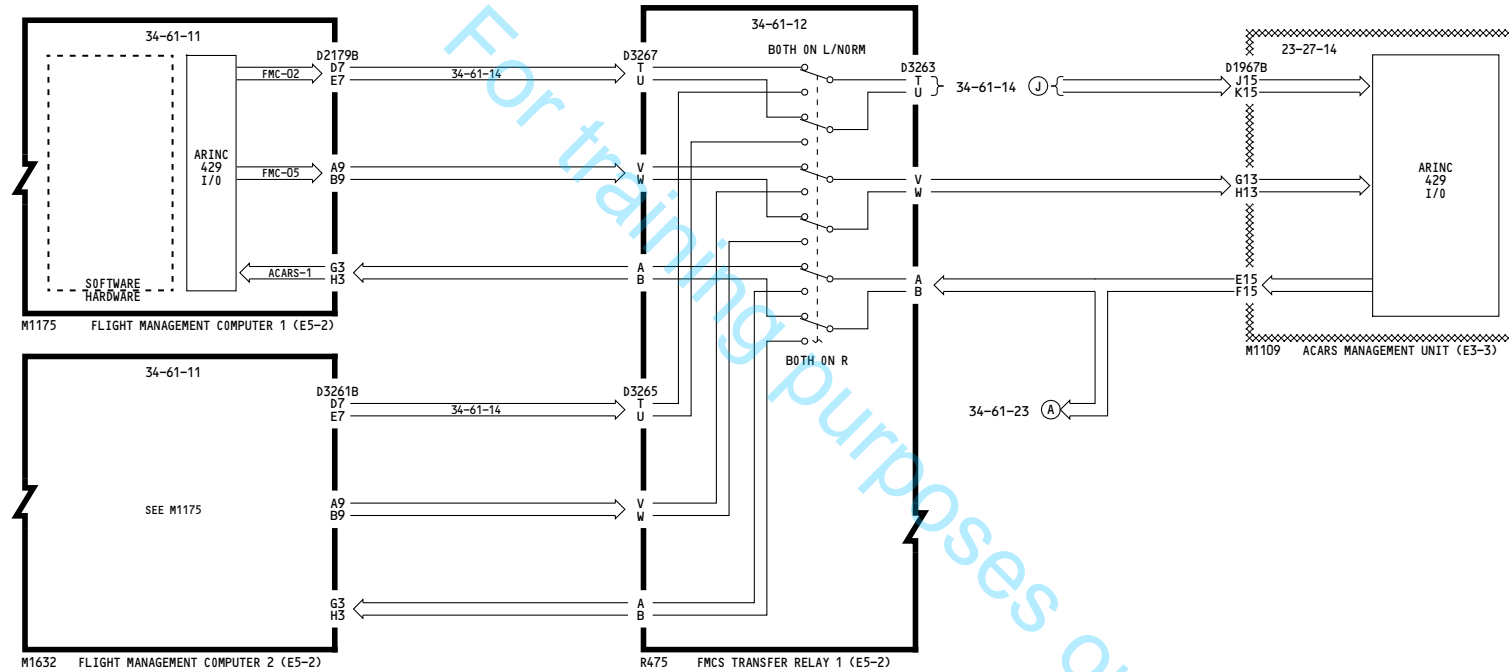
Incorporates  
23-1218

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**34-61-21**

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YD006-YD020

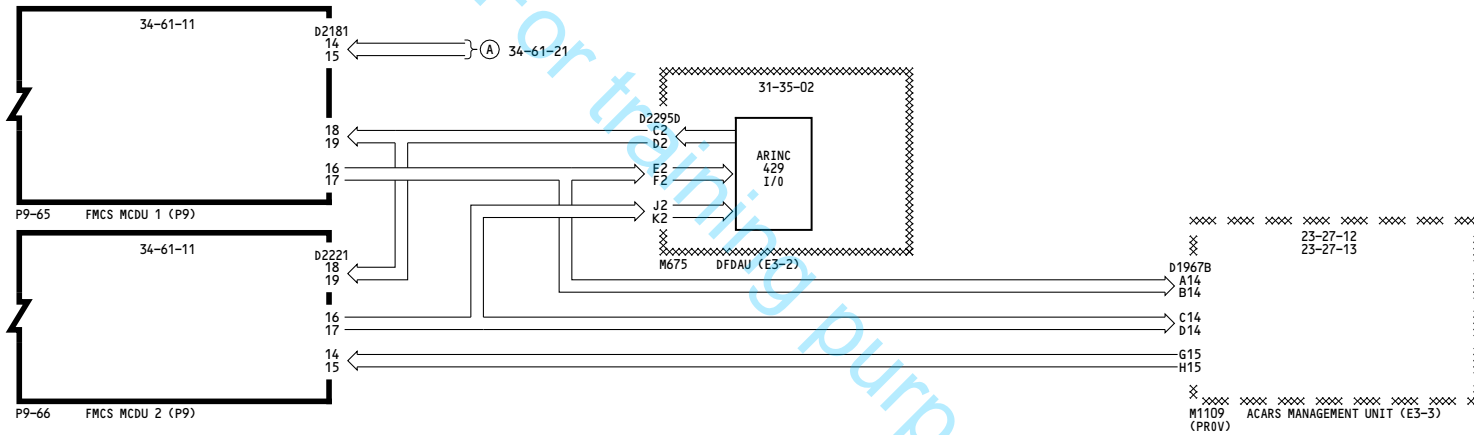
**FMCS INTERFACE  
WITH ACARS**

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**34-61-21**

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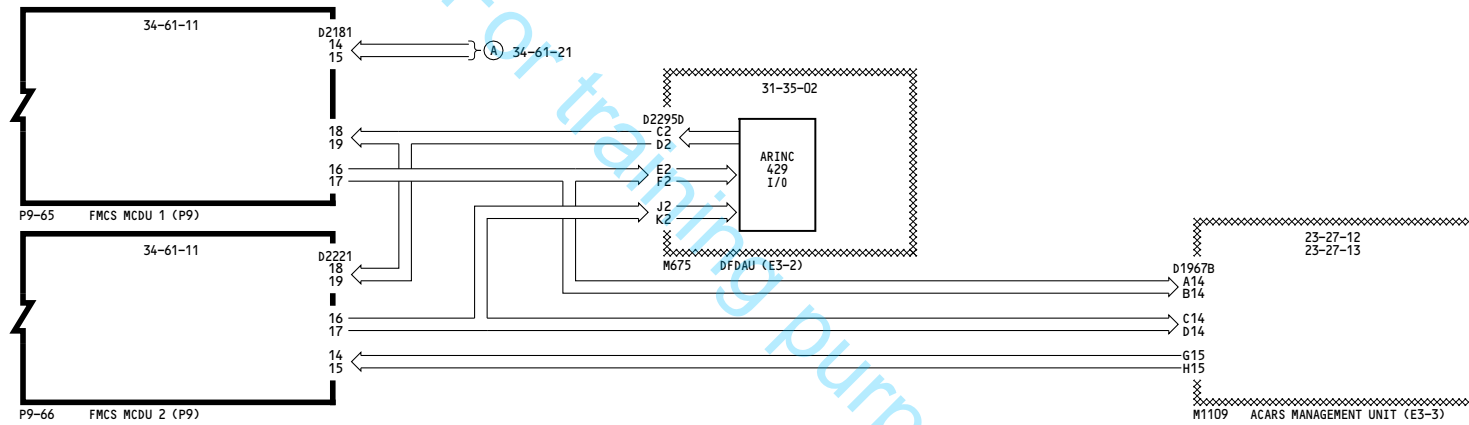
YD001-YD005	CDU/MCDU INTERFACE
	D280A238

**34-61-23**

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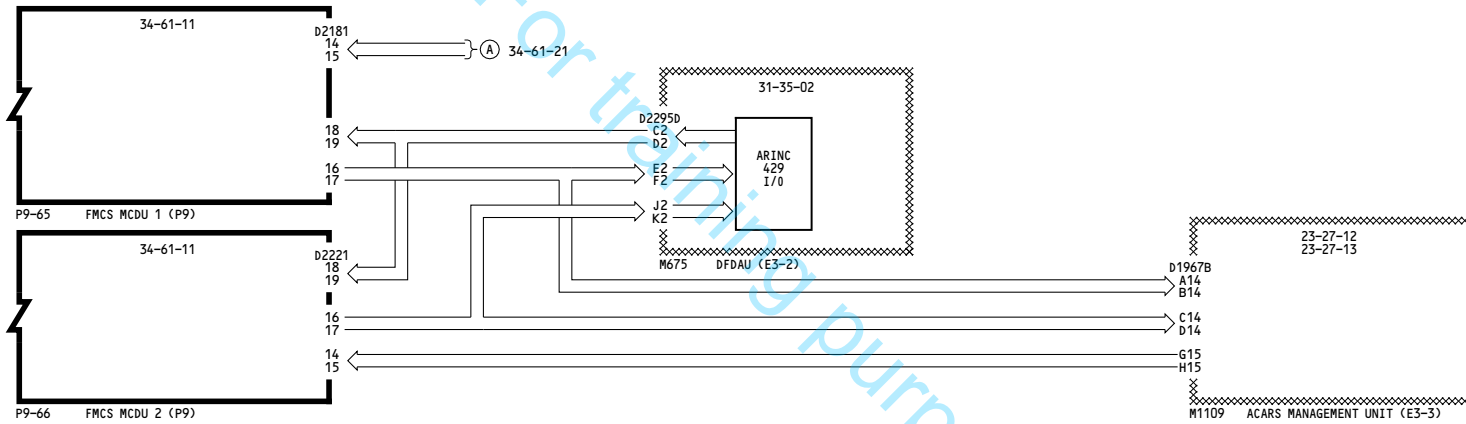
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	D280A238

Incorporates  
23-1218

**34-61-23**

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YD006-YD020

**CDU/MCDU INTERFACE**

D280A238

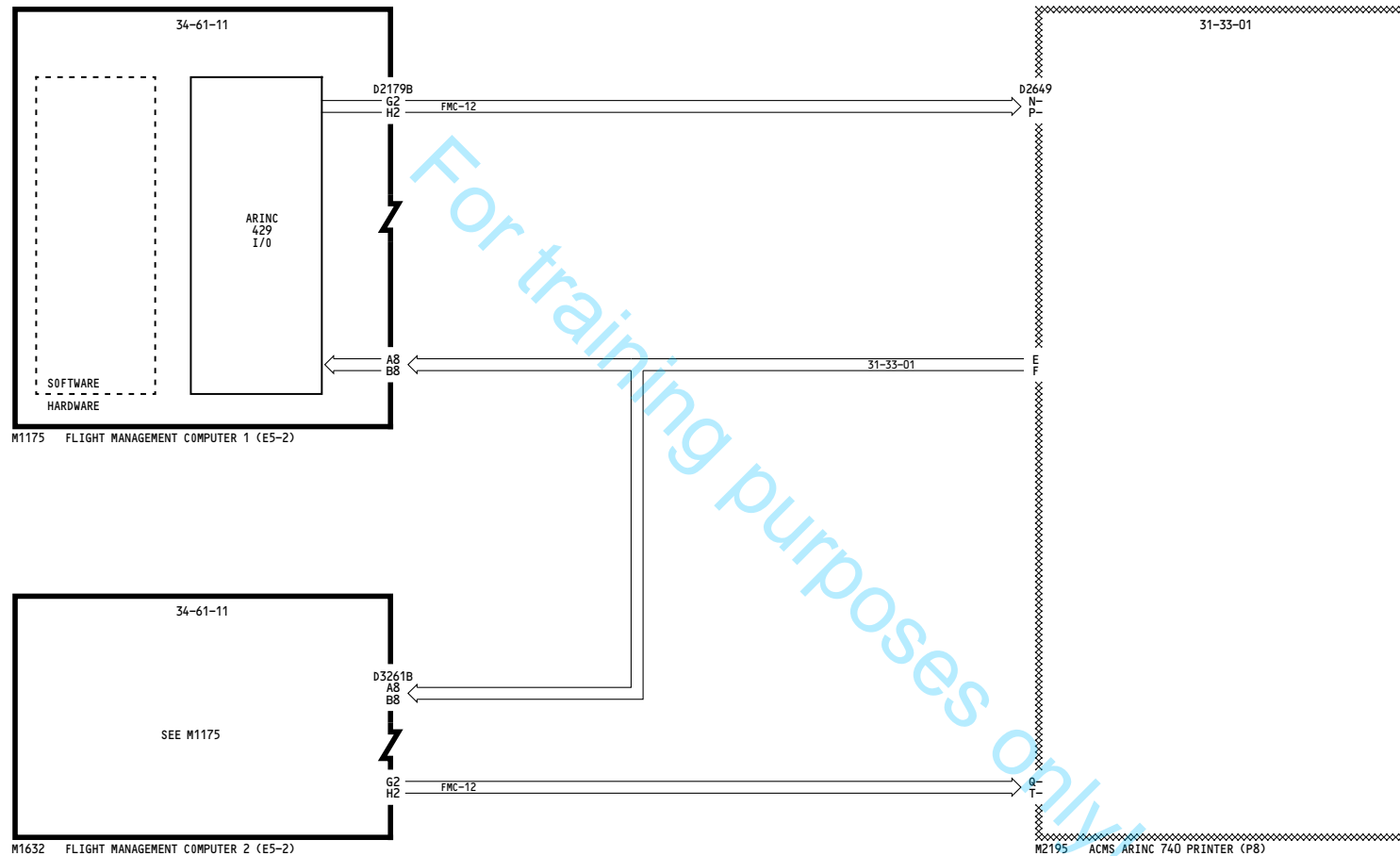
**34-61-23**

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2

WIRING DIAGRAMS  
34-61-24



ALL	<b>FMCS INTERFACE WITH ARINC 740/744 PRINTER</b>  D280A238
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**34-61-24**

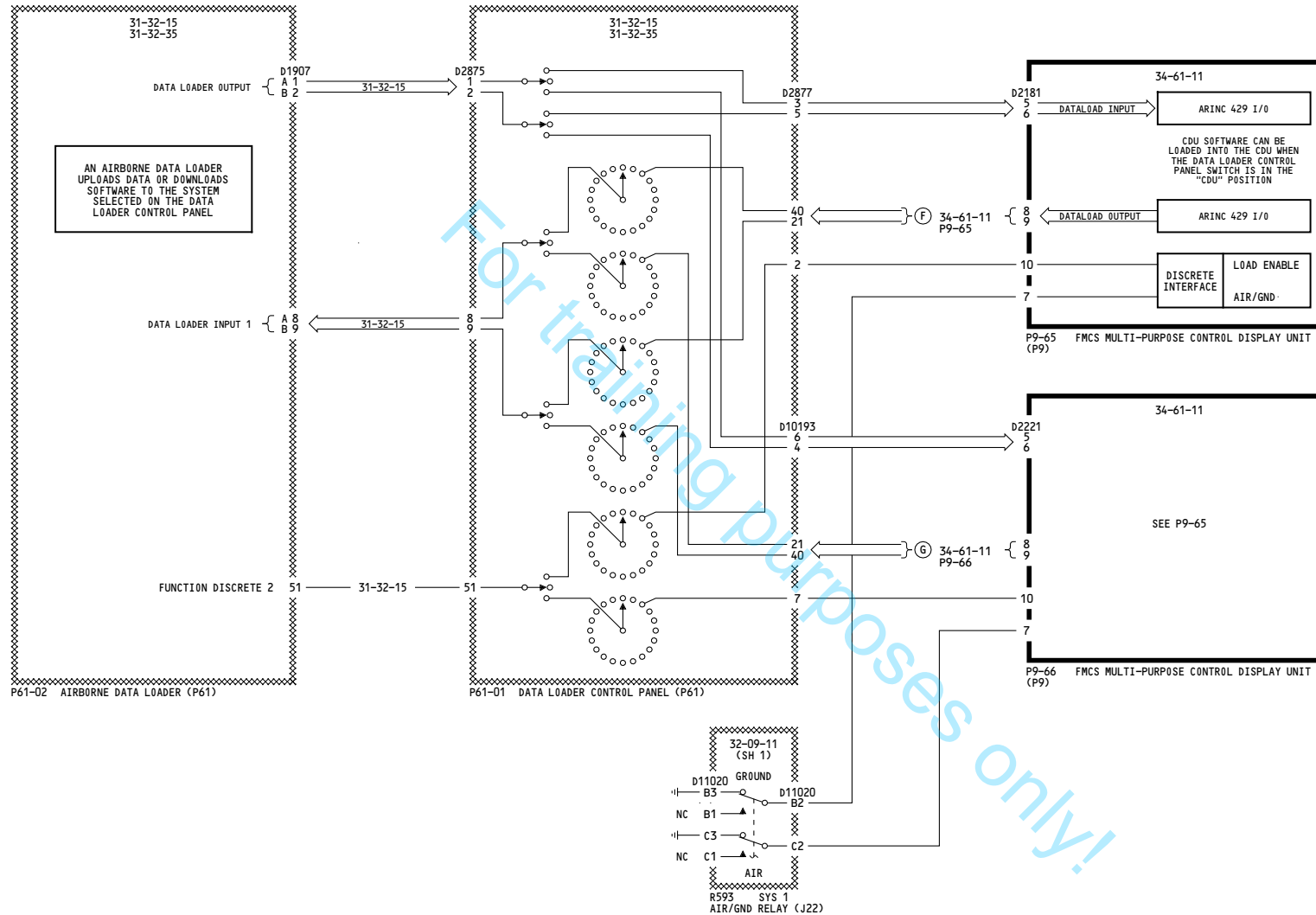
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**WIRING DIAGRAMS**

31-32-15 (SH 1)  
31-32-15 (SH 3)  
34-61-26

-B  
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ALL

**CDU/MCDU/DATA LOADER  
INTERFACE**

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**34-61-26**

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