

CHAPTER 44 CABIN SYSTEMS

	CH-SC-SU	Schem	Page	Sheet	Date		CH-SC-SU	Schem	Page	Sheet	Date
44-	-EFFECTIVE	PAGES					44-21-22 (cont.)	5		
			1		Jun 21/2016	R				2	Jun 21/2016
			2		BLANK	R				3	Jun 21/2016
	-CONTENTS	3					44-30-11				
R			1		Jun 21/2016				1		Mar 14/2016
R			2		Jun 21/2016	R			2		Jun 21/2016
R			3		Jun 21/2016		44-35-20				
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	44-21-10								1.1	1	Jan 12/2015
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R				2	Jun 21/2016						
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			4	1	Oct 14/2015						
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				3	Oct 14/2015						
R			5	1	Jun 21/2016						
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A = Added, R = Revised, D = Deleted, O = Overflow



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	IFE SERVER BASED SYSTEM						
	IFE - SERVER BASED SYSTEM POWER & CONTROL DISTRIBUTION	44-21-10		1	1	Mar 14/2016	YT101-YT120
					2	Mar 14/2016	YT101-YT120
ı				2		Jun 21/2016	YT126-YT133
	IFE - SERVER BASED SYSTEM HEAD-END - CMT/ CP/ DATA PORT INTERFACES	44-21-12		1.1	1	Jan 12/2015	YT101-YT102
					2	Jan 12/2015	YT101-YT102
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					3	Mar 14/2016	YT103-YT120
I				3	1	Jun 21/2016	YT126-YT133
I					2	Jun 21/2016	YT126-YT133
	IFE - SERVER BASED SYSTEM HEAD-END - MCU/ ADB ETHERNET INTERFACES	44-21-14		1		Mar 14/2016	YT101-YT120
	IFE - SERVER BASED SYSTEM MCU/ADB - SEAT COLUMN INTERFACES	44-21-16		1	1	Mar 14/2016	YT101-YT120
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					6	Mar 14/2016	YT101-YT120
					7	Mar 14/2016	YT101-YT120
					8	Mar 14/2016	YT101-YT120
	IFE - SERVER BASED SYSTEM ARINC INTERFACES	44-21-20		1		Mar 14/2016	YT101-YT120
I				2		Jun 21/2016	YT126-YT133
	IFE - SERVER BASED SYSTEM AIRCRAFT INTERFACES-PRAM/ PA/ KEYLINE DISCRETES	44-21-22		1	1	Aug 15/2013	YT101-YT103



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IFE - SERVER BASED SYSTEM AIRCRAFT INTERFACES-PRAM/ PA/ KEYLINE DISCRETES (cont.)	44-21-22			2	Aug 15/2013	YT101-YT103
				3	Aug 15/2013	YT101-YT103
			2	1	Jan 12/2015	YT104-YT112
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				3	Jan 12/2015	YT104-YT112
			3	1	Mar 14/2016	YT113-YT120
				2	Jun 21/2016	YT113-YT120
				3	Mar 14/2016	YT113-YT120
			4	1	Oct 14/2015	YT126-YT130
				2	Oct 14/2015	YT126-YT130
				3	Oct 14/2015	YT126-YT130
			5	1	Jun 21/2016	YT131-YT133
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EXTERNAL COMMUNICATIO	N SYSTEM					
EXTERNAL COMMUNICATION SYSTEM-WIRELESS GATELINK	44-30-11		1		Mar 14/2016	YT101-YT120
			2		Jun 21/2016	YT126-YT133
SATELLITE COMMUNICATIO	N DATA					
CABIN WIRELESS POWER	44-35-20		1.1		Jan 12/2015	YT101-YT102
			2		Mar 14/2016	YT103-YT120
			3		Jun 21/2016	YT126-YT133
CABIN WIRELESS DATA	44-35-22		1.1	1	Jan 12/2015	YT101-YT102
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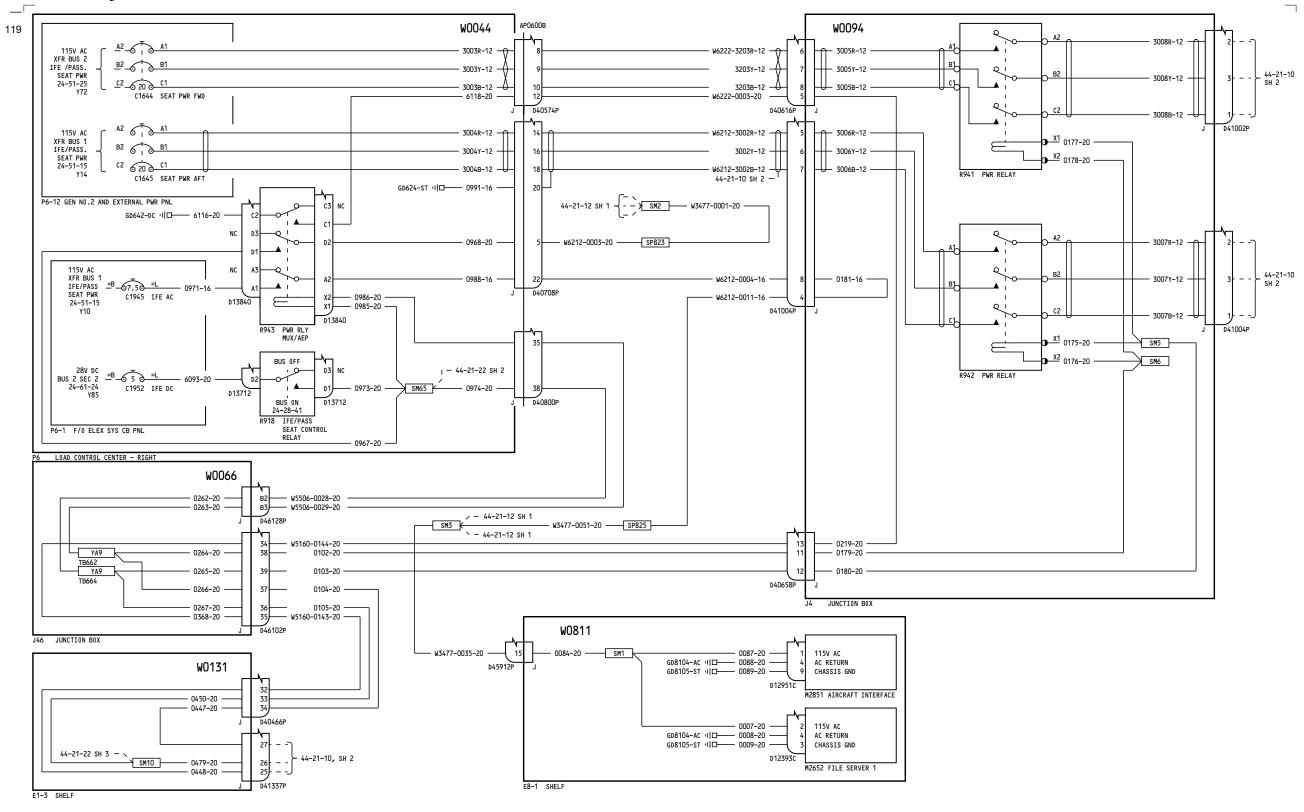


Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
ABIN WIRELESS DATA ont.)	44-35-22		3	1	Mar 14/2016	YT106-YT120
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				3	Mar 14/2016	YT106-YT120
				4	Mar 14/2016	YT106-YT120
			4	1	Jun 21/2016	YT126-YT133
				2	Jun 21/2016	YT126-YT133
				3	Jun 21/2016	YT126-YT133
				4	Jun 21/2016	YT126-YT133
				5	Jun 21/2016	YT126-YT133



CH-SC-SU	Title
44-35-22	CABIN WIRELESS DATA
44-35-20	CABIN WIRELESS POWER
44-30-11	EXTERNAL COMMUNICATION SYSTEM-WIRELESS GATELINK
44-21-22	IFE - SERVER BASED SYSTEM AIRCRAFT INTERFACES-PRAM/ PA/KEYLINE DISCRETES
44-21-20	IFE - SERVER BASED SYSTEM ARINC INTERFACES
44-21-12	IFE - SERVER BASED SYSTEM HEAD-END - CMT/CP/ DATA PORT INTERFACES
44-21-14	IFE - SERVER BASED SYSTEM HEAD-END - MCU/ADB ETHERNET INTERFACES
44-21-16	IFE - SERVER BASED SYSTEM MCU/ADB - SEAT COLUMN INTERFACES
44-21-10	IFE - SERVER BASED SYSTEM POWER & CONTROL DISTRIBUTION





YT101-YT120

IFE - SERVER BASED SYSTEM
POWER & CONTROL
DISTRIBUTION

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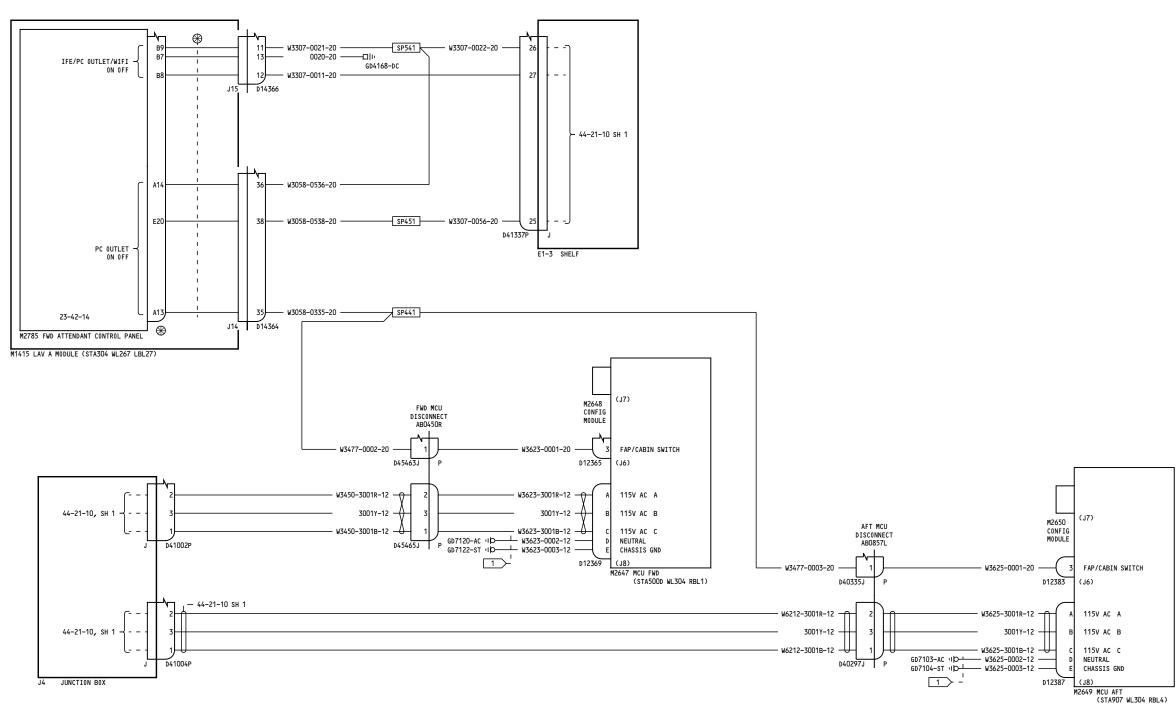
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NOTES:

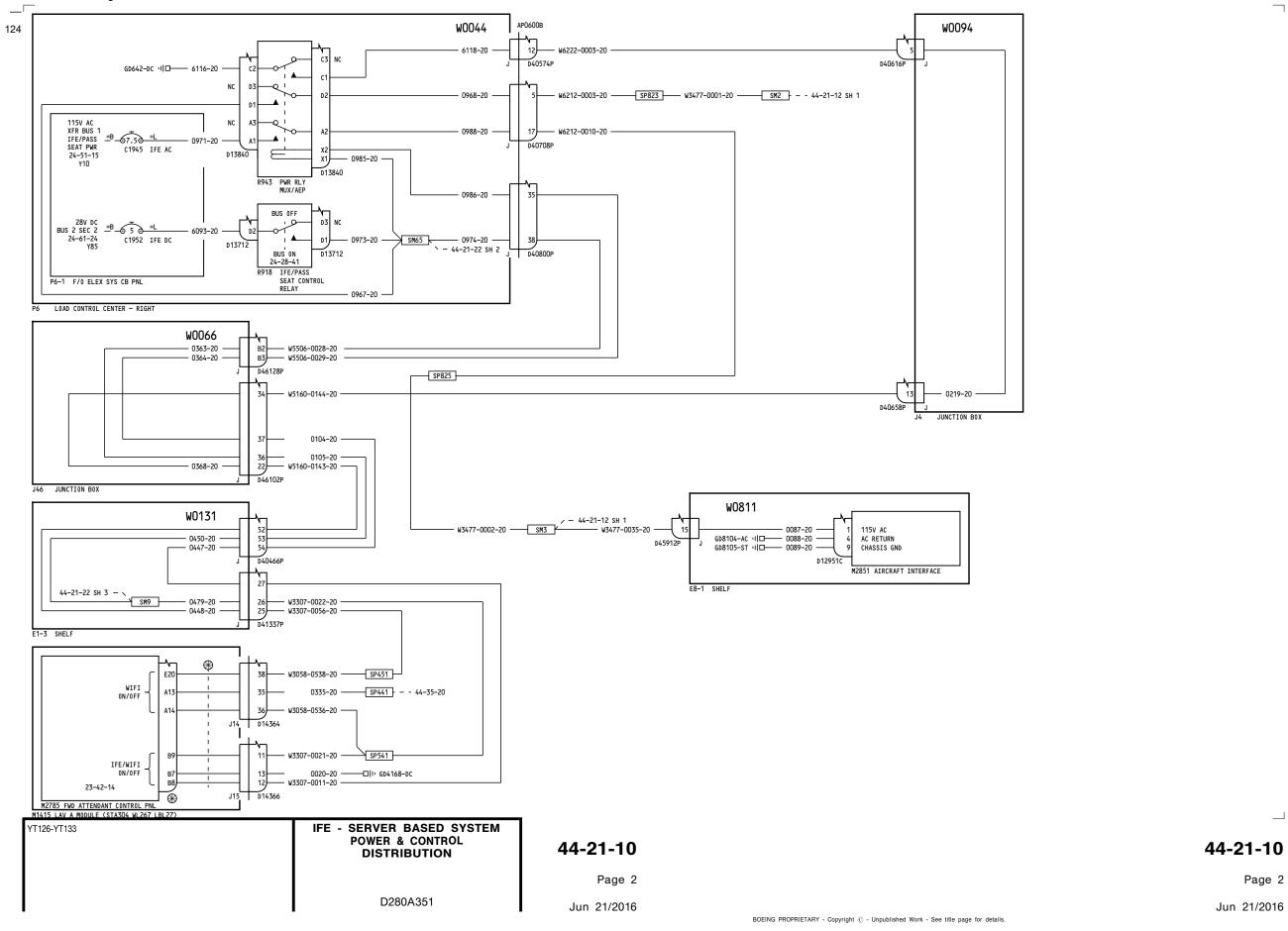
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YT101-YT120	IFE - SERVER BASED SYSTEM POWER & CONTROL DISTRIBUTION
	D280A351

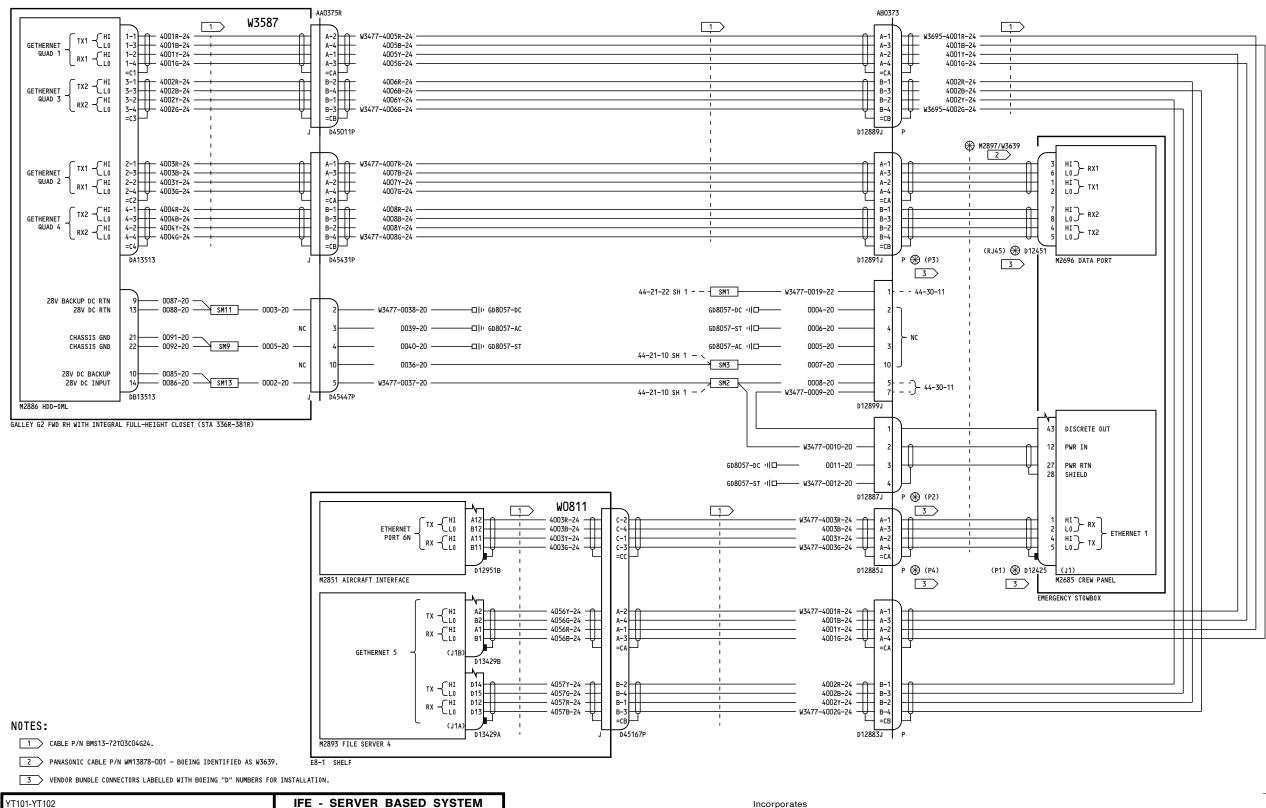
44-21-10

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HEAD-END - CMT/CP/
DATA PORT INTERFACES

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44-21-12

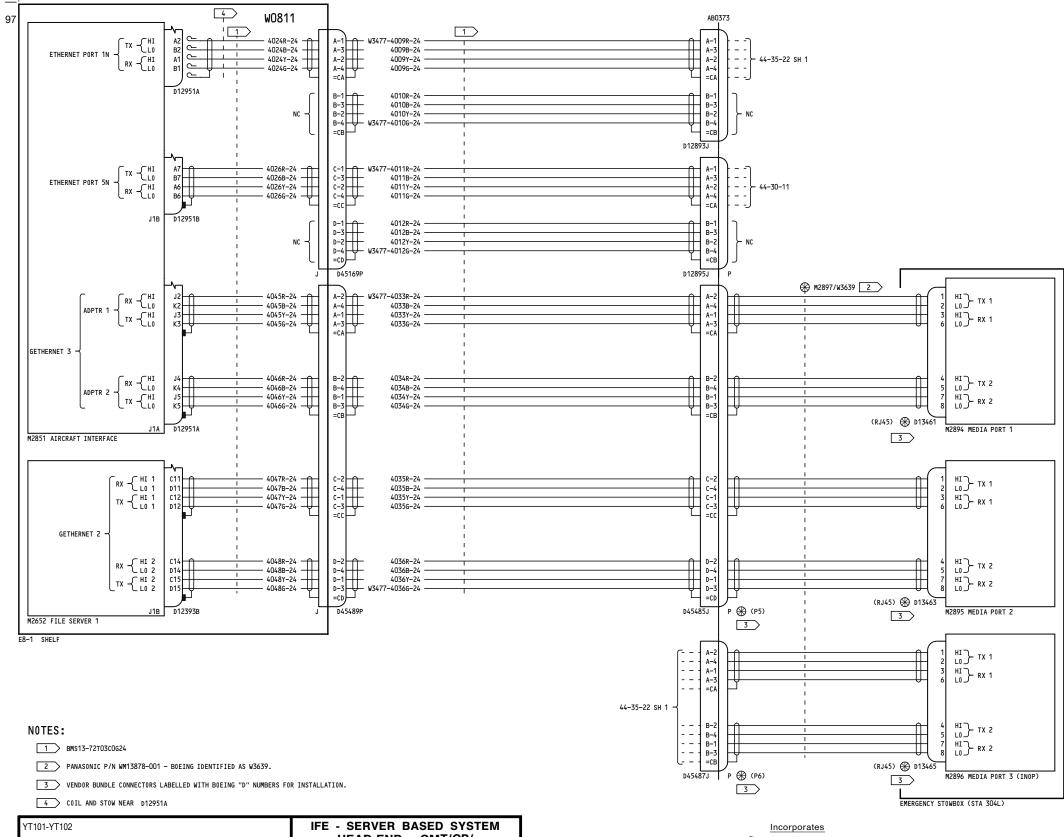
Page 1.1 Sheet 1 Jan 12/2015 Incorporates

44-1010

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HEAD-END - CMT/CP/ DATA PORT INTERFACES D280A351

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W0811 - 4004R-24 - 4004B-24 - 4004Y-24 - 4004G-24 GETHERNET 1 — 4005R-24 — 4005B-24 — 4005Y-24 — 4005G-24 4005R-24 GETHERNET 2 D12951B (J1B) DISCRETE IN 4 SIGNAL GND NORM/ALT DISCRETE IN (J1A) D12393A M2652 FILE SERVER 1 NORM/ALT GROUND D12951A M2851 AIRCRAFT INTERFACE E8-1 SHELF

NOTES:

1 CABLE P/N BMS13-72T03C04G24

YT101-YT102

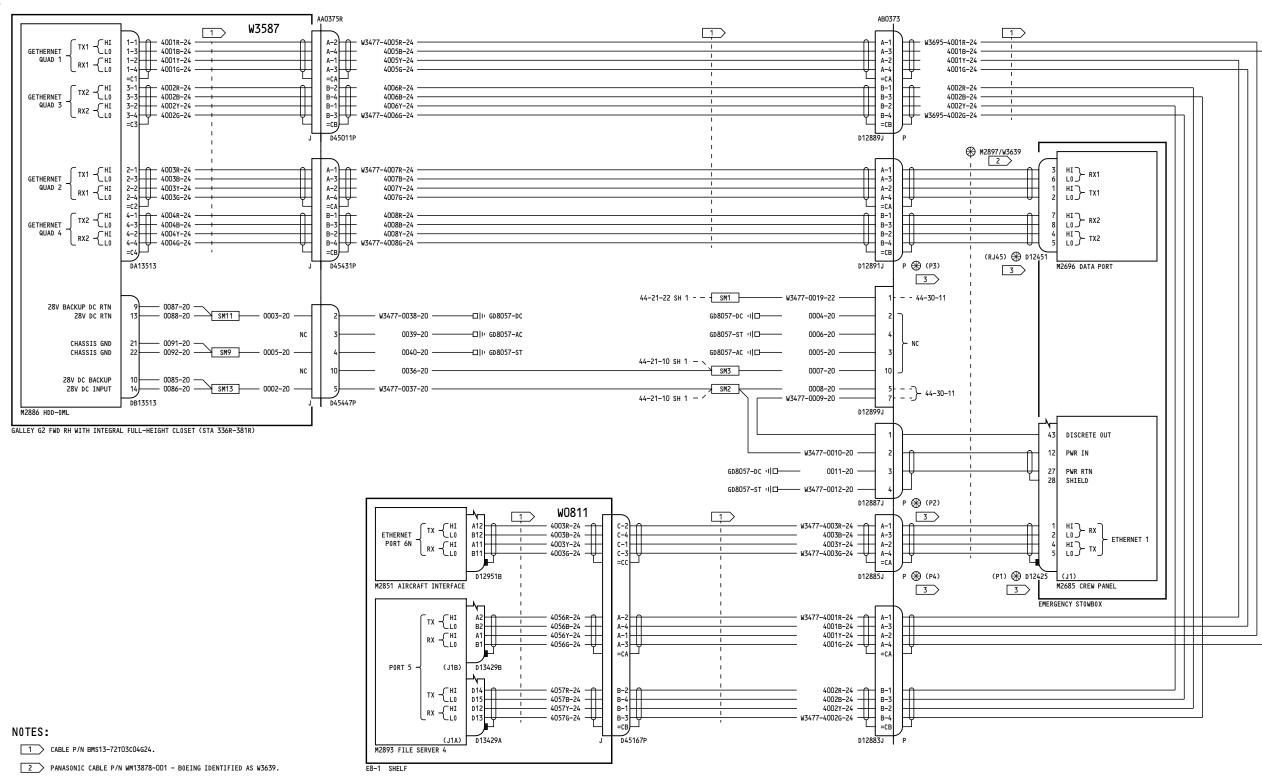
IFE - SERVER BASED SYSTEM
HEAD-END - CMT/CP/
DATA PORT INTERFACES

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3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

YT103-YT120

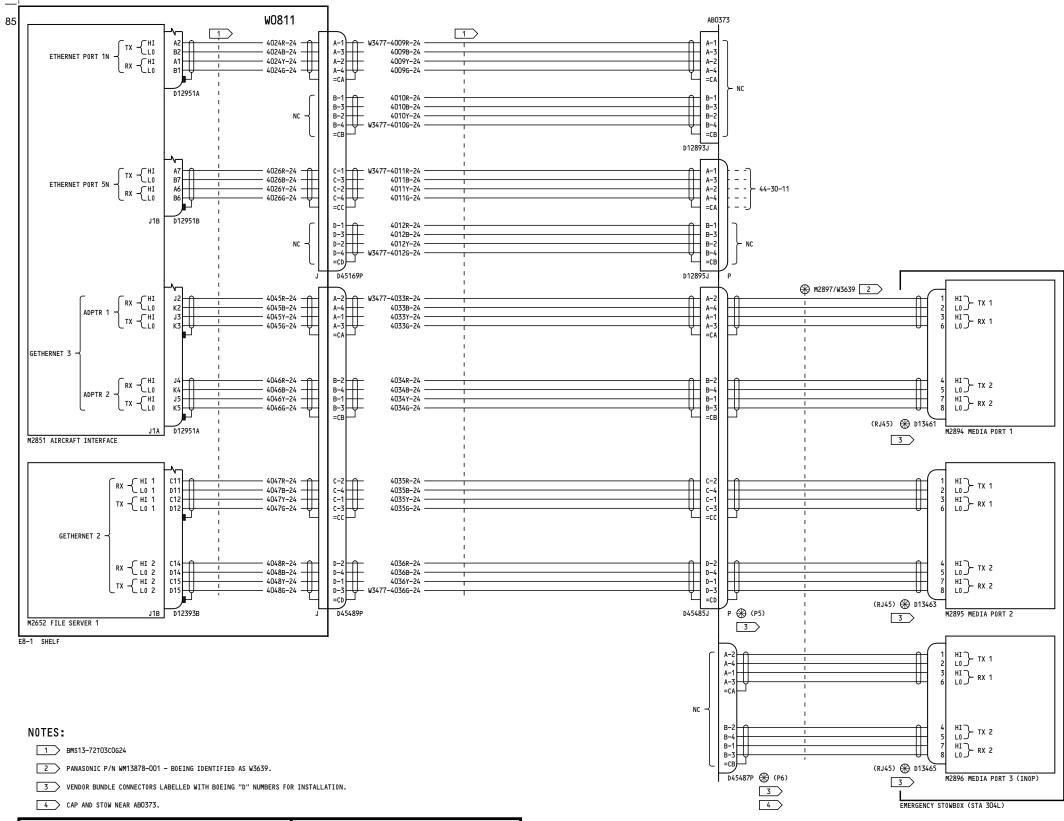
IFE - SERVER BASED SYSTEM
HEAD-END - CMT/CP/
DATA PORT INTERFACES

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YT103-YT120

IFE - SERVER BASED SYSTEM
HEAD-END - CMT/CP/
DATA PORT INTERFACES

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W0811 - 4004R-24 - 4004B-24 - 4004Y-24 - 4004G-24 GETHERNET 1 — 4005R-24 — 4005B-24 — 4005Y-24 — 4005G-24 4005R-24 GETHERNET 2 D12951B (J1B) DISCRETE IN 4 SIGNAL GND NORM/ALT DISCRETE IN (J1A) D12393A M2652 FILE SERVER 1 NORM/ALT GROUND D12951A M2851 AIRCRAFT INTERFACE E8-1 SHELF

NOTES:

1 CABLE P/N BMS13-72T03C04G24

YT103-YT120

IFE - SERVER BASED SYSTEM
HEAD-END - CMT/CP/
DATA PORT INTERFACES

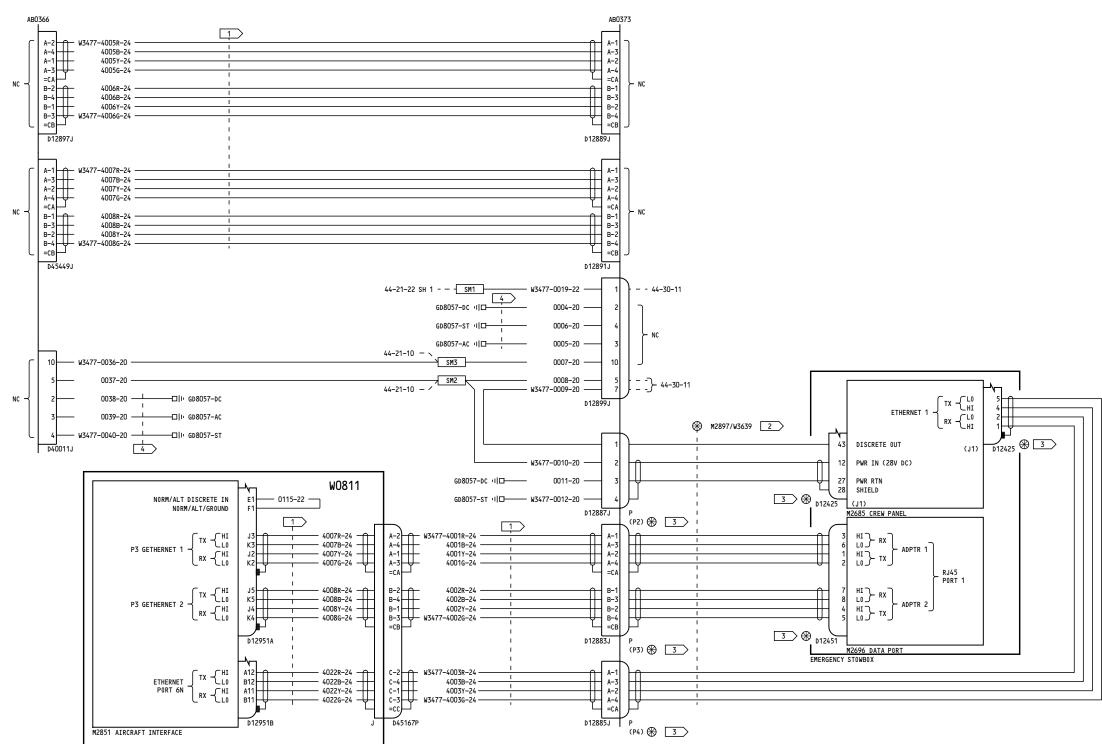
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NOTES:

1 CABLE P/N BMS13-72T03C04G024.

2 PANASONIC CABLE P/N WM13878-001 - BOEING IDENTIFIED AS W3639.

3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

GROUND WIRE NOT TO EXCEED 7 FEET IN LENGTH.

YT126-YT133

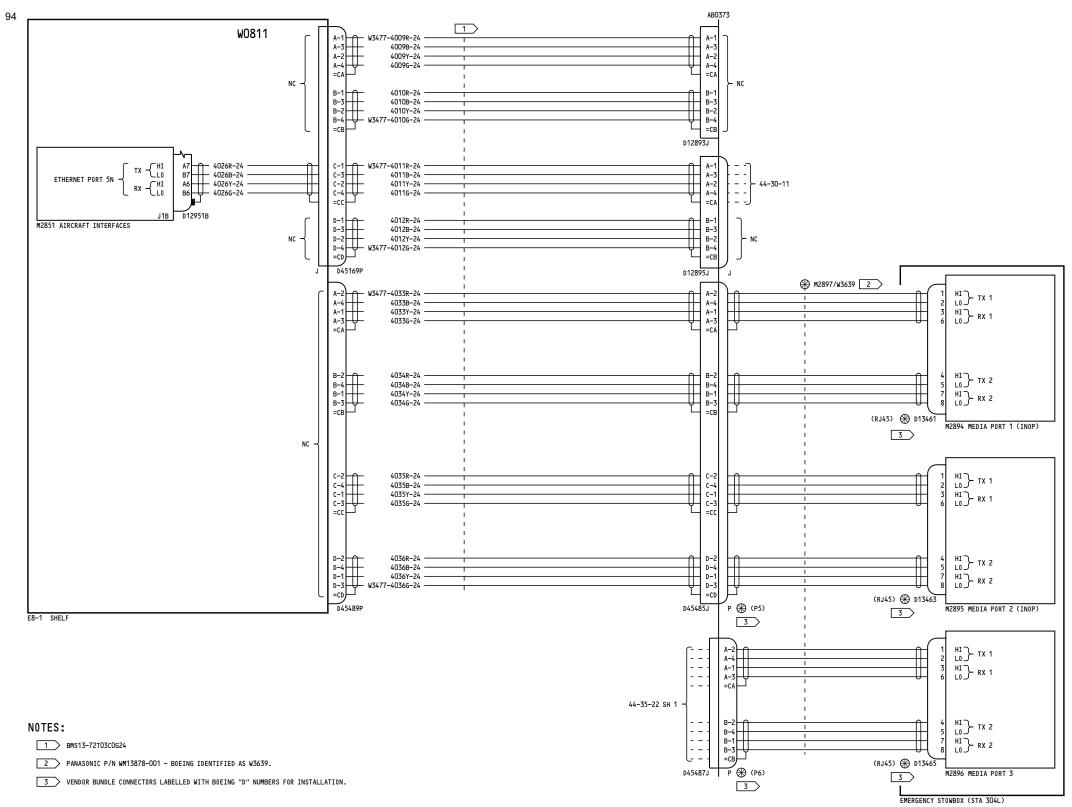
IFE - SERVER BASED SYSTEM
HEAD-END - CMT/CP/
DATA PORT INTERFACES

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YT126-YT133

IFE - SERVER BASED SYSTEM
HEAD-END - CMT/CP/
DATA PORT INTERFACES

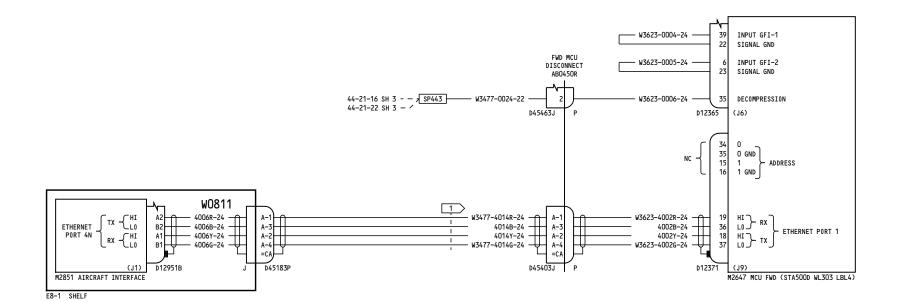
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NOTES:

1 CABLE P/N BMS13-72T03C04G024

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IFE - SERVER BASED SYSTEM
HEAD-END - MCU/ADB
ETHERNET INTERFACES

44-21-14

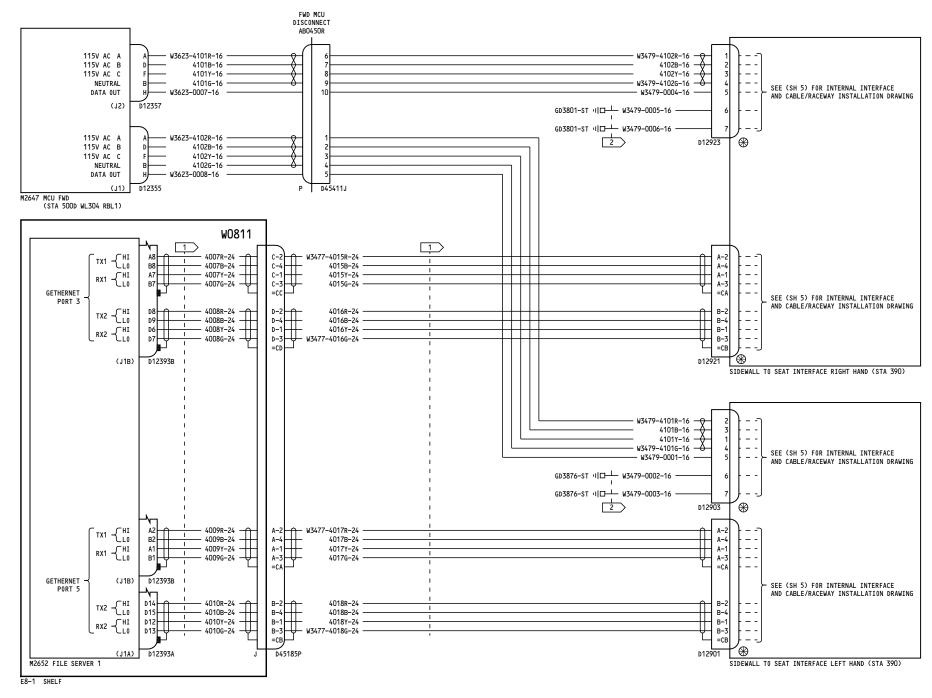
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NOTES:

1 BMS13-72T03C04G24

2 MAXIMUM 24 INCH LENGTH

YT101-YT120

IFE - SERVER BASED SYSTEM
MCU/ADB - SEAT
COLUMN INTERFACES

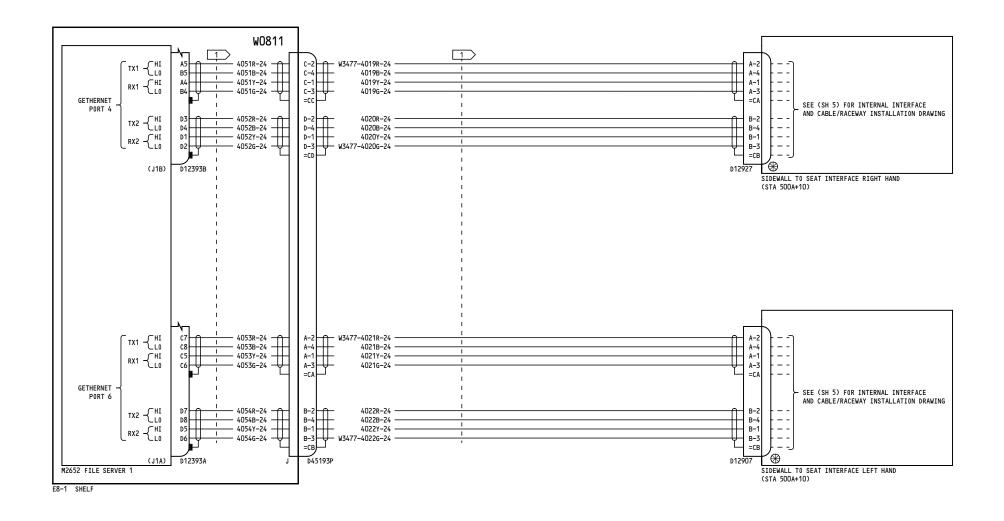
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NOTES:

1 BMS13-72T03C04G24

YT101-YT120

IFE - SERVER BASED SYSTEM
MCU/ADB - SEAT
COLUMN INTERFACES

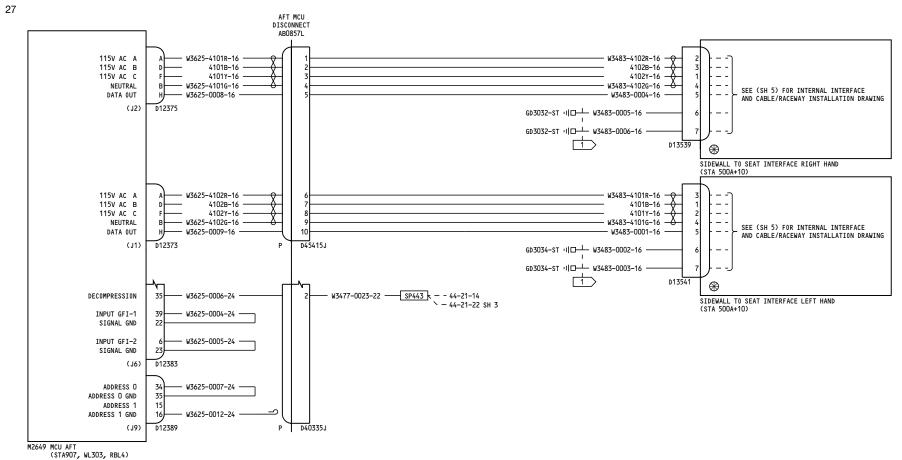
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NOTES:

1 MAXIMUM 24 INCH LENGTH

YT101-YT120

IFE - SERVER BASED SYSTEM
MCU/ADB - SEAT
COLUMN INTERFACES

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20 AFT MCU DISCONNECT ABO857L 115V AC A 115V AC B 115V AC C NEUTRAL DATA OUT - W3483-4104R-16 - 4104B-16 - 4104Y-16 - W3483-4104G-16 W3625-4103R-16 4103B-16 - 4103Y-16 -- W3625-4103G-16 -SEE (SH 5) FOR INTERNAL INTERFACE
AND CABLE/RACEWAY INSTALLATION DRAWING W3625-0010-16 W3483-0010-16 D12379 (J4) GD4420-ST 11 W3483-0011-16 GD4420-ST 11 W3483-0012-16 D12933 \oplus SIDEWALL TO SEAT INTERFACE RIGHT HAND (STA 675) — W3483-4103R-16 — 4103B-16 — 4103Y-16 — W3483-4103G-16 115V AC A 115V AC B 115V AC C NEUTRAL - W3625-4104R-16 -4104B-16 4104Y-16 W3625-4104G-16 DATA OUT W3625-0011-16 W3483-0007-16 SEE (SH 5) FOR INTERNAL INTERFACE
AND CABLE/RACEWAY INSTALLATION DRAWING (J3) D12377 P D45417J GD3322-ST 11 W3483-0008-16 M2649 MCU AFT (STA907, WL303, RBL4)

NOTES:

1 MAXIMUM 24 INCH LENGTH

IFE - SERVER BASED SYSTEM YT101-YT120 MCU/ADB - SEAT 44-21-16 **COLUMN INTERFACES** D280A351

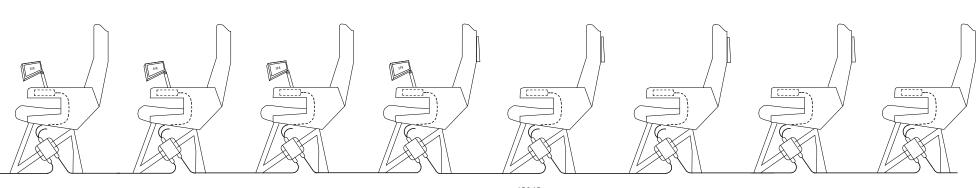
GD3322-ST 11 W3483-0009-16

 \oplus

SIDEWALL TO SEAT INTERFACE LEFT HAND (STA 675)

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SEE VENDOR DRAWING IS60860 FOR IN-SEAT WIRING

SEE CABLE AND RACEWAY INSTALLATION DRAWING 414A1110 FOR SEAT-TO-SEAT WIRING

YT101-YT120

IFE - SERVER BASED SYSTEM
MCU/ADB - SEAT
COLUMN INTERFACES

D280A351

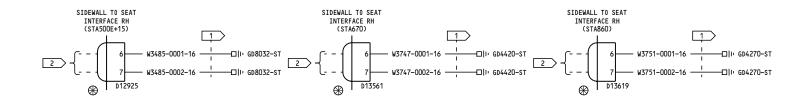
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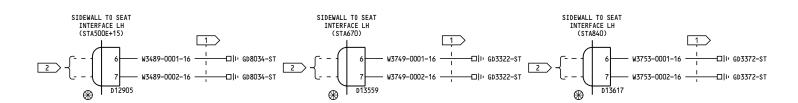
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NOTES:

1 MAXIMUM 24 INCH LENGTH

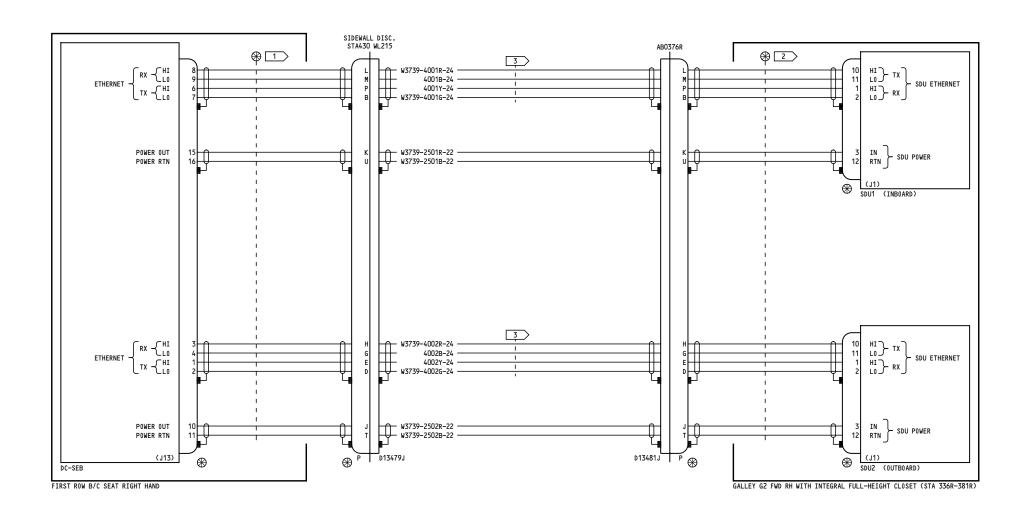
2 SEE (SH 5) FOR INTERNAL INTERFACE AND CABLE/RACEWAY INSTALLATION DRAWING.

YT101-YT120	IFE - SERVER BASED SYSTEM MCU/ADB - SEAT COLUMN INTERFACES	44-2 1
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44-21-16

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NOTES:

1 PANASONIC CABLE P/N RD-FM7336-XXXX

2 PANASONIC CABLE P/N RD-FM7337-XXXX

3 BMS13-72T03C04G024

YT101-YT120

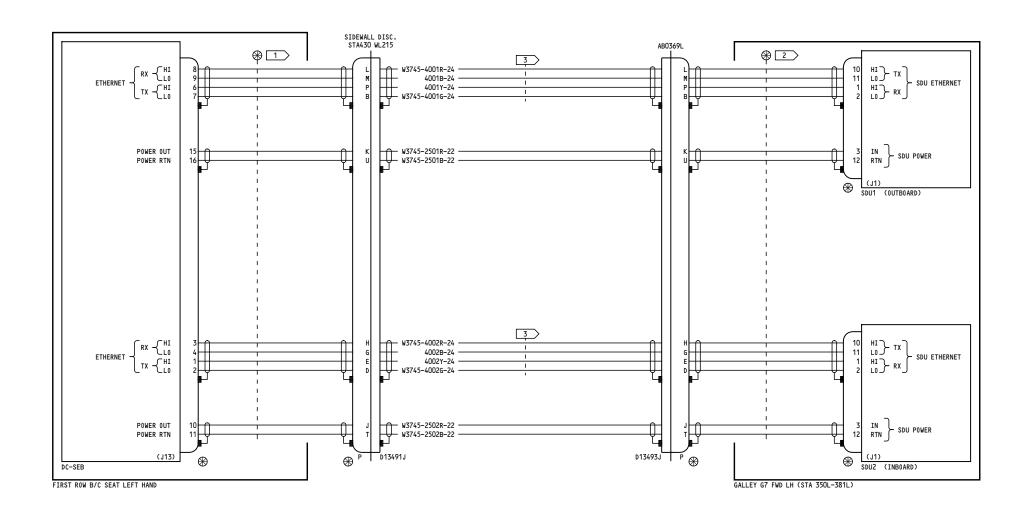
IFE - SERVER BASED SYSTEM
MCU/ADB - SEAT
COLUMN INTERFACES

D280A351

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NOTES:

1 PANASONIC CABLE P/N RD-FM7336-XXXX

2 PANASONIC CABLE P/N RD-FM7337-XXXX

3 BMS13-72T03C04G024

YT101-YT120	IFE - SERVER BASED SYSTEM MCU/ADB - SEAT COLUMN INTERFACES
	D280A351

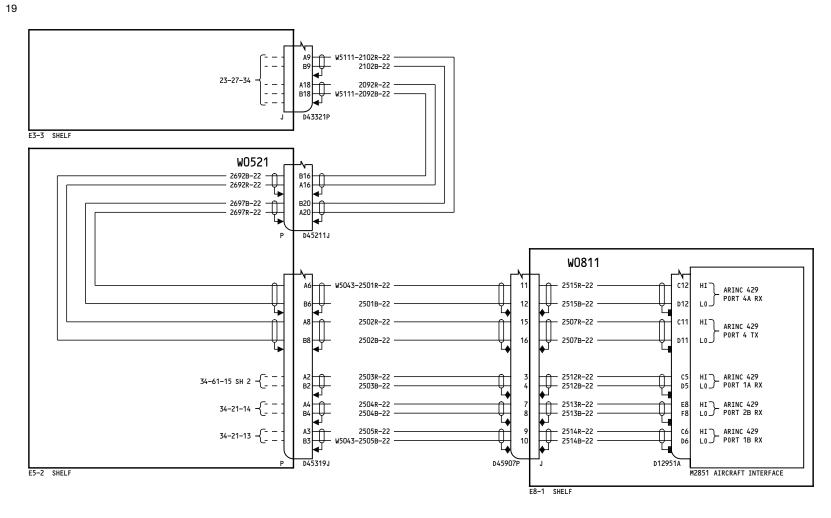
44-21-16

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YT101-YT120

IFE - SERVER BASED SYSTEM
ARINC INTERFACES

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44-21-20

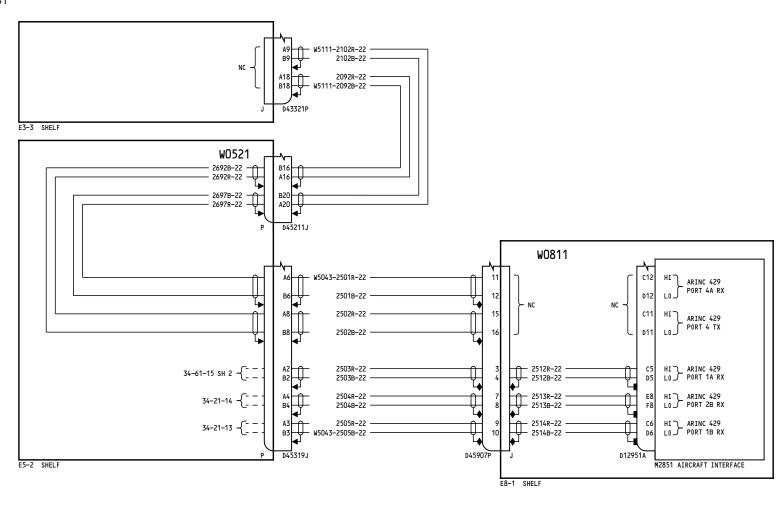
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YT126-YT133

IFE - SERVER BASED SYSTEM
ARINC INTERFACES

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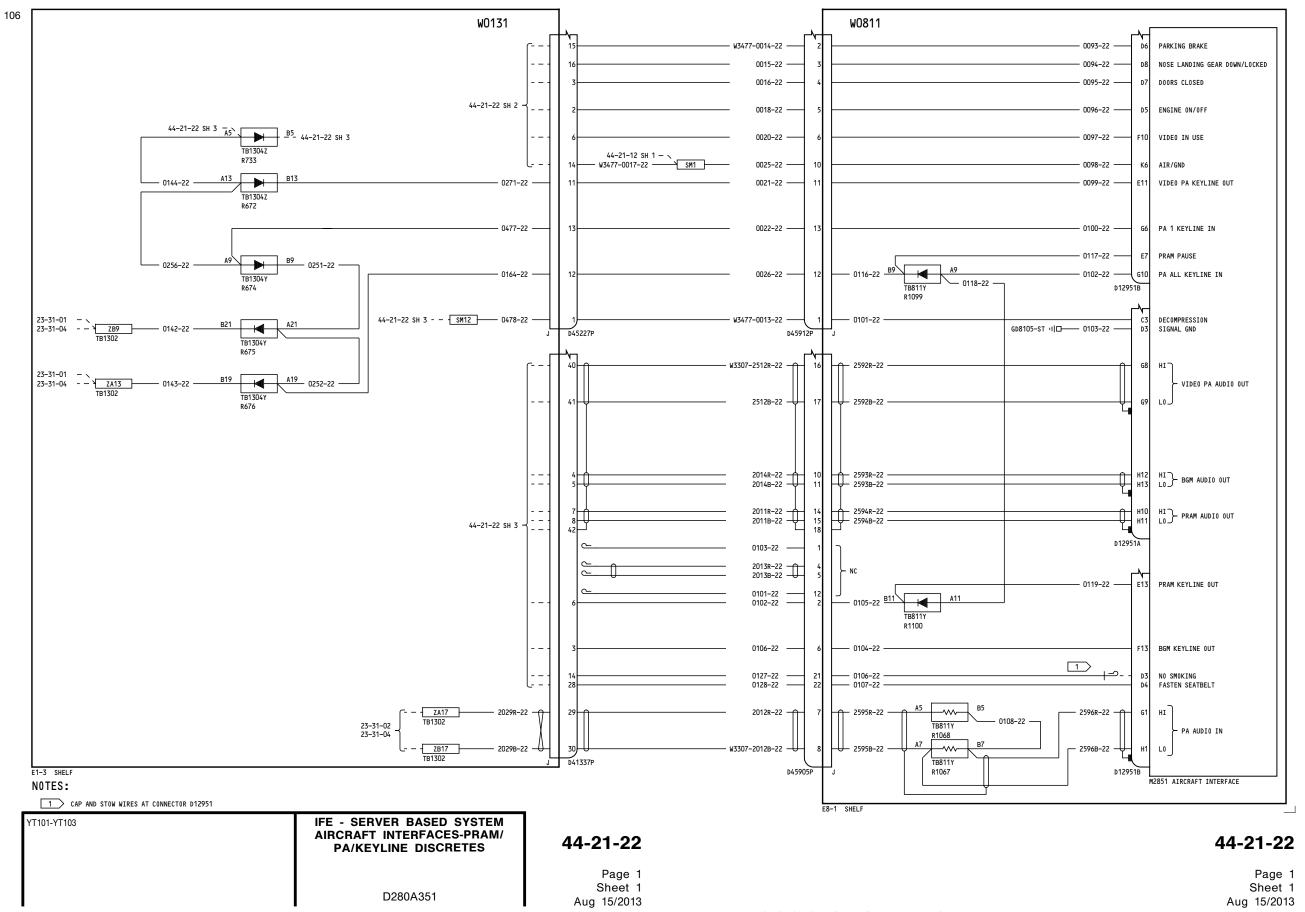
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Jun 21/2016

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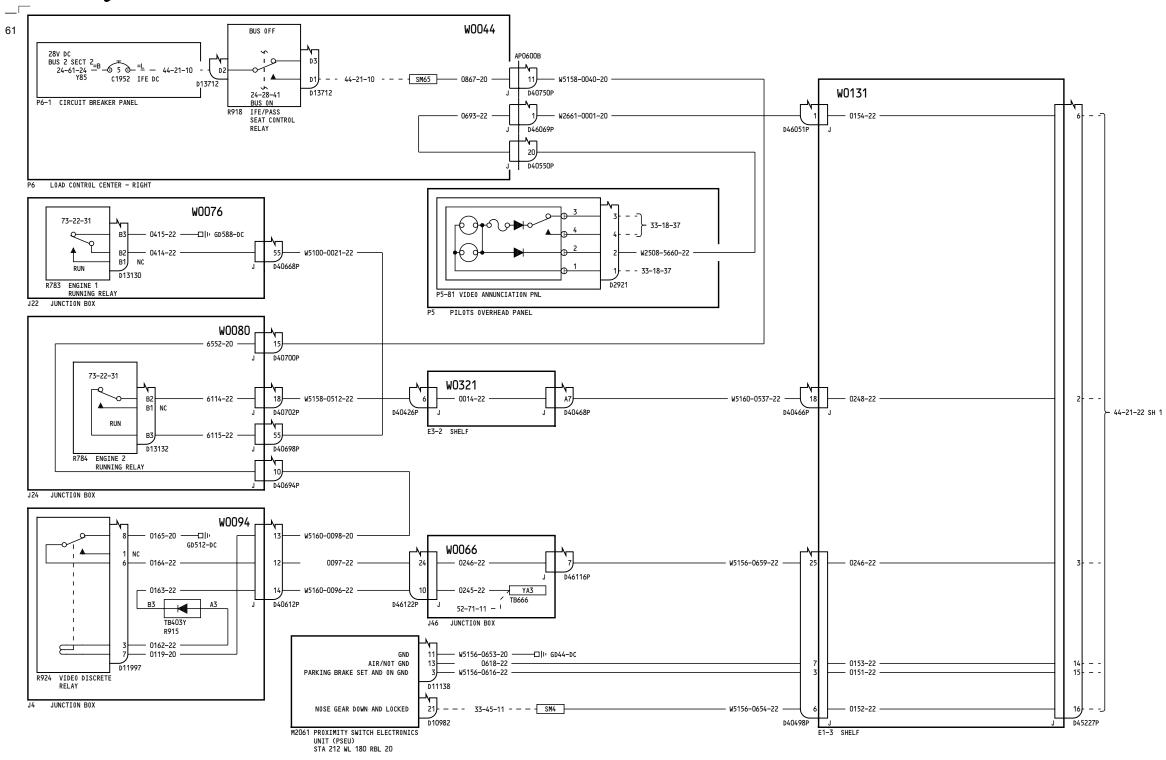
Jun 21/2016

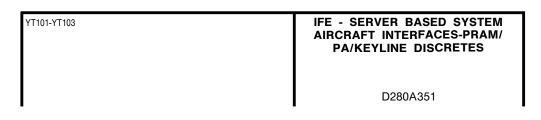
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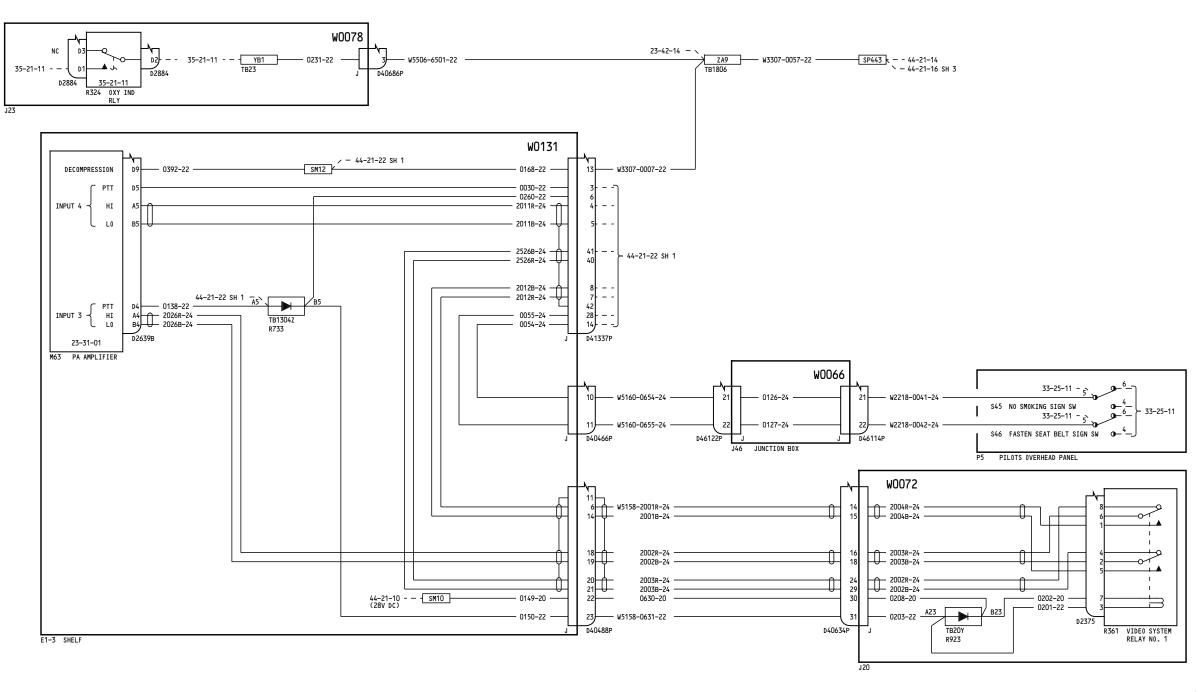




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YT101-YT103

IFE - SERVER BASED SYSTEM
AIRCRAFT INTERFACES-PRAM/
PA/KEYLINE DISCRETES

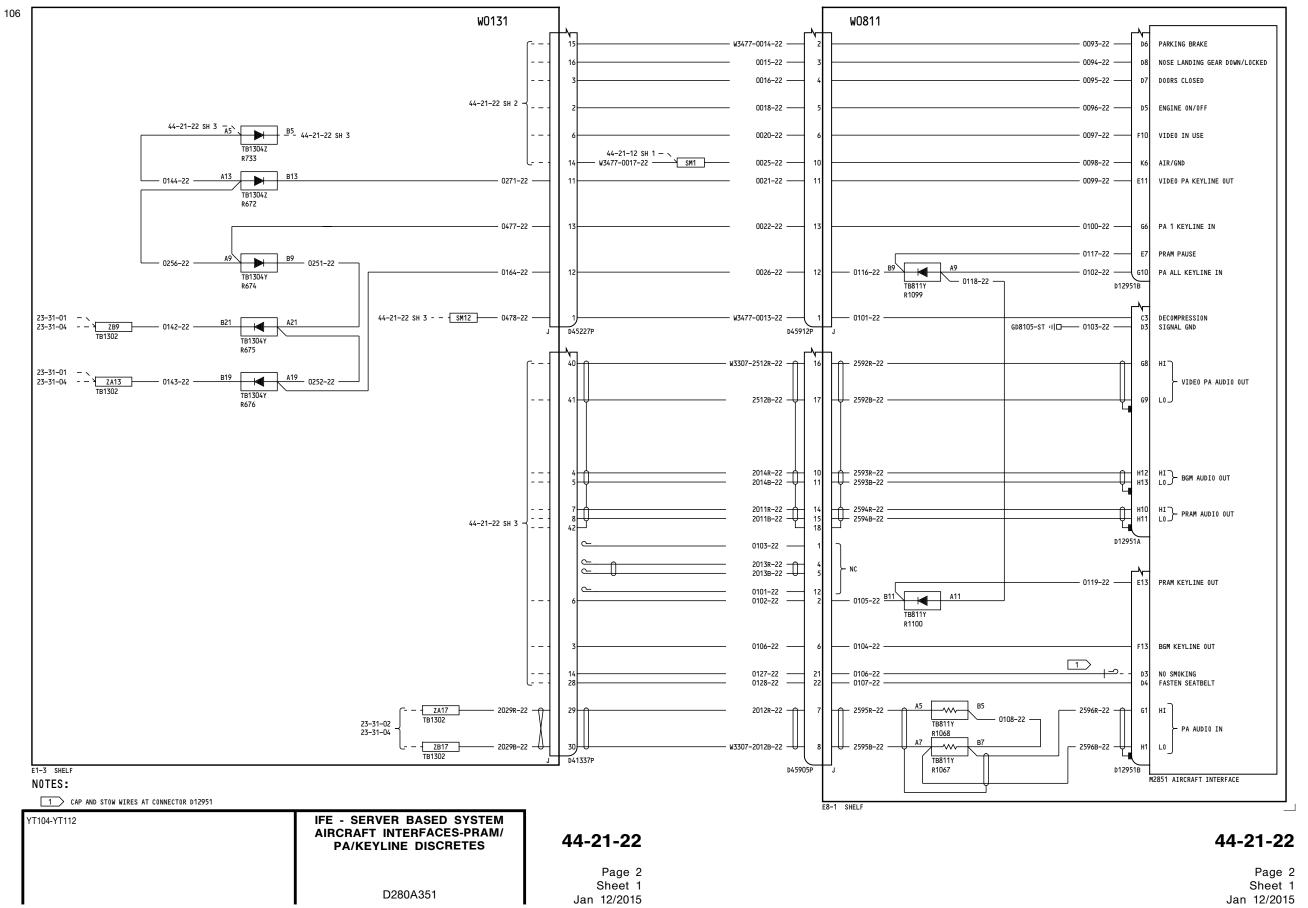
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44-21-22

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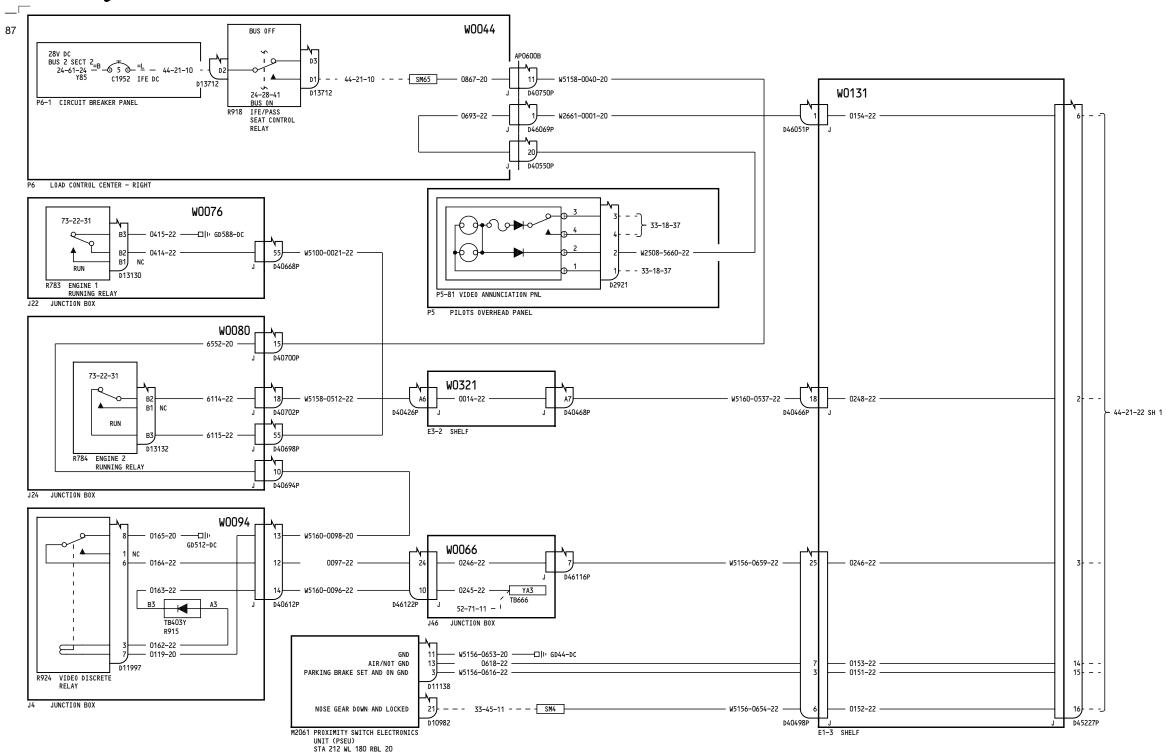
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YT104-YT112

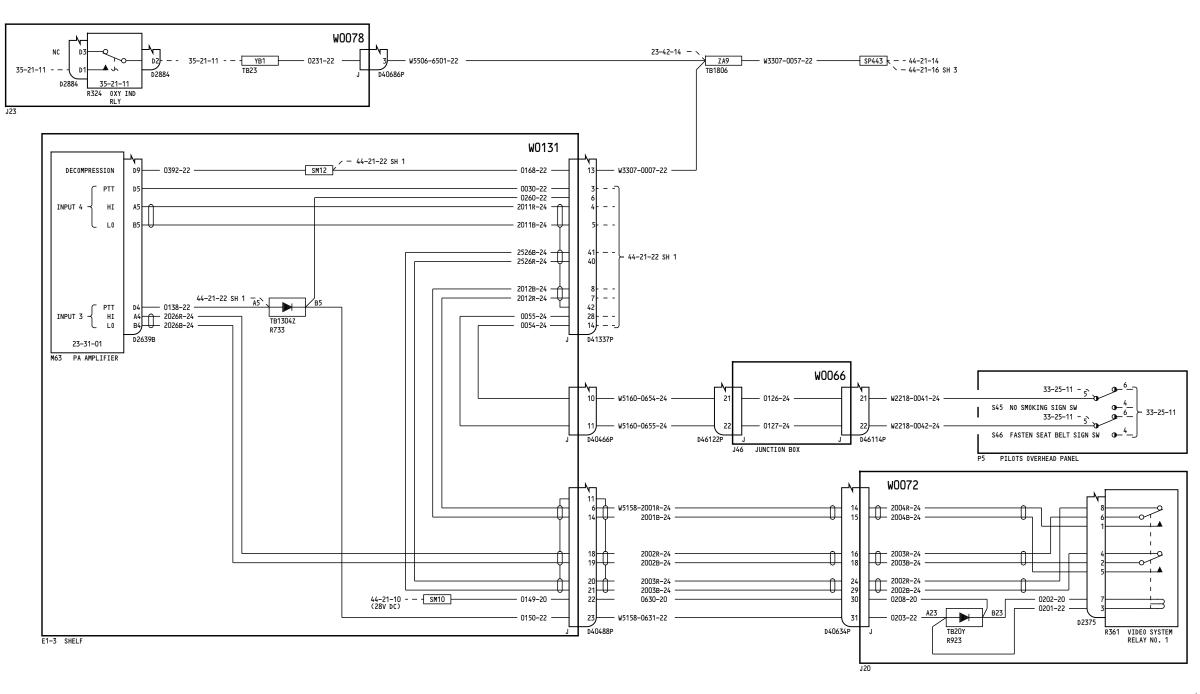
IFE - SERVER BASED SYSTEM
AIRCRAFT INTERFACES-PRAM/
PA/KEYLINE DISCRETES

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YT104-YT112

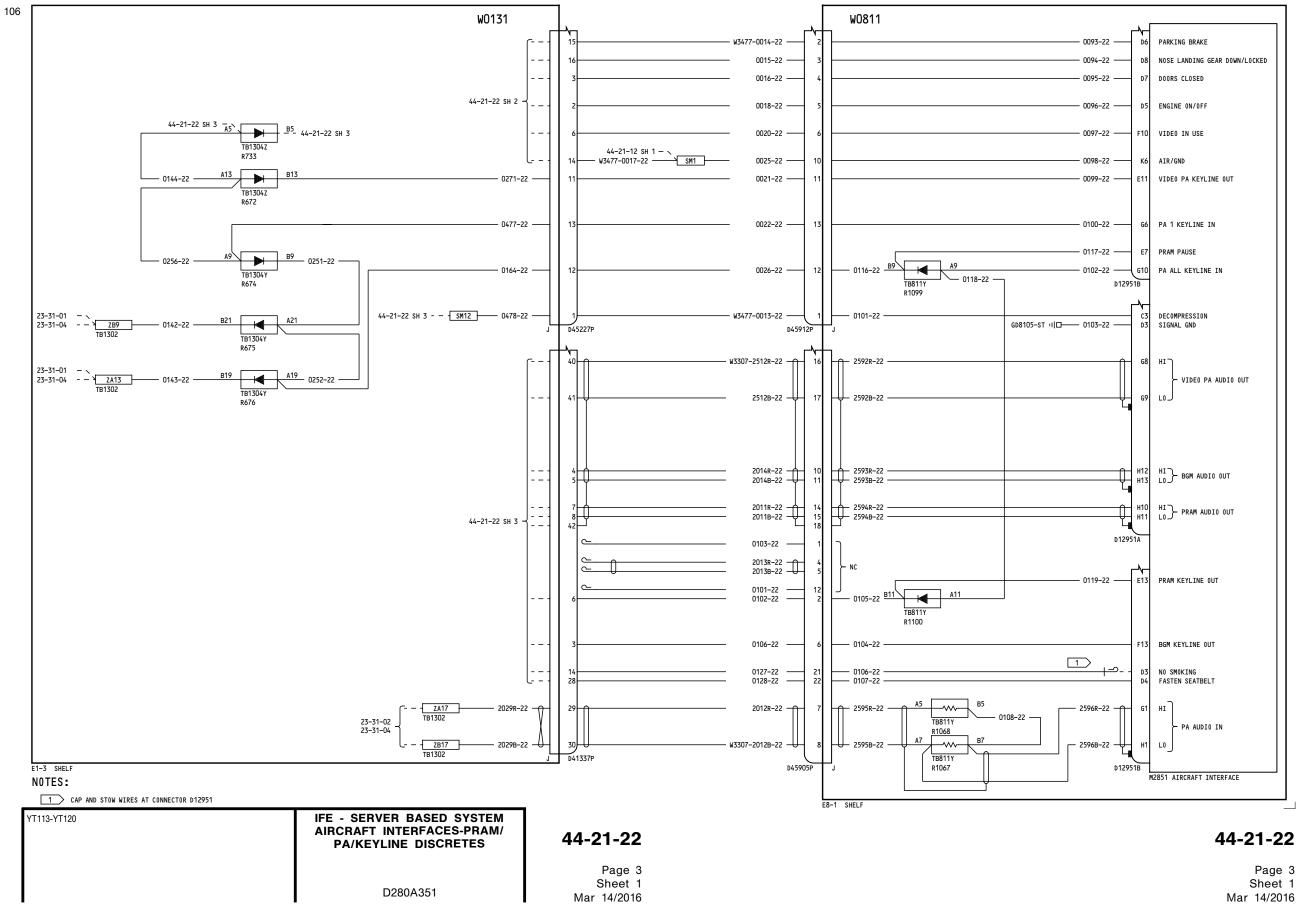
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AIRCRAFT INTERFACES-PRAM/
PA/KEYLINE DISCRETES

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44-21-22

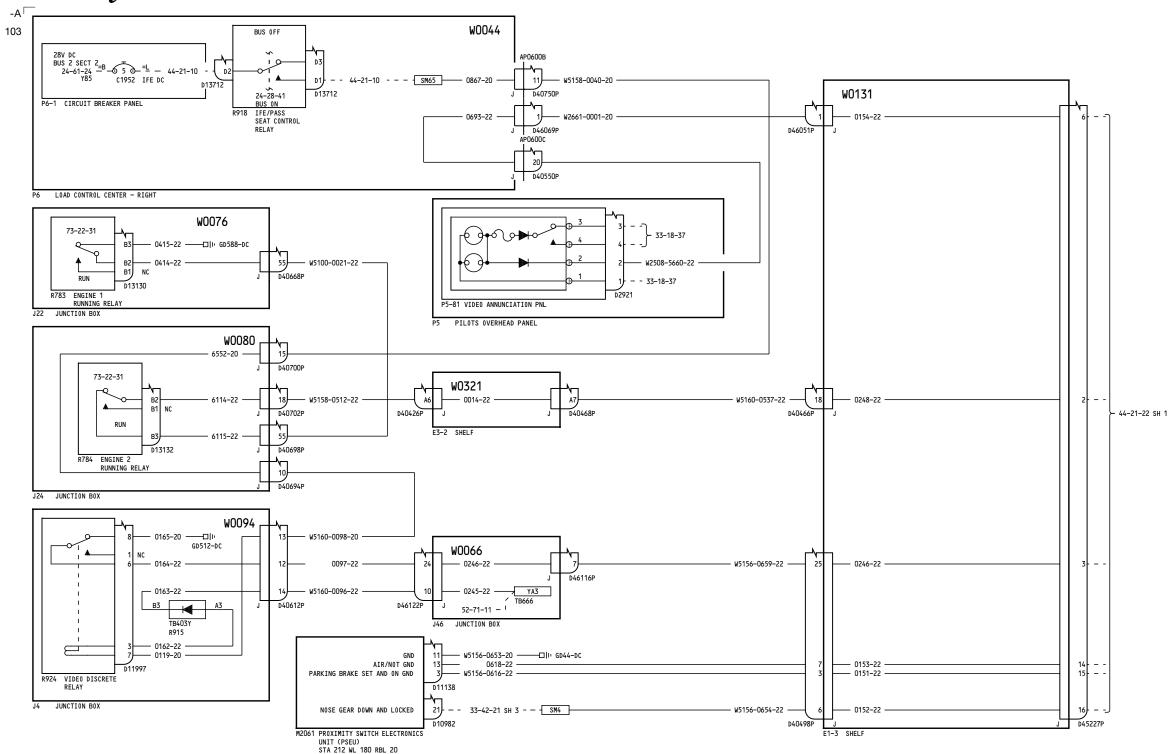
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YT113-YT120

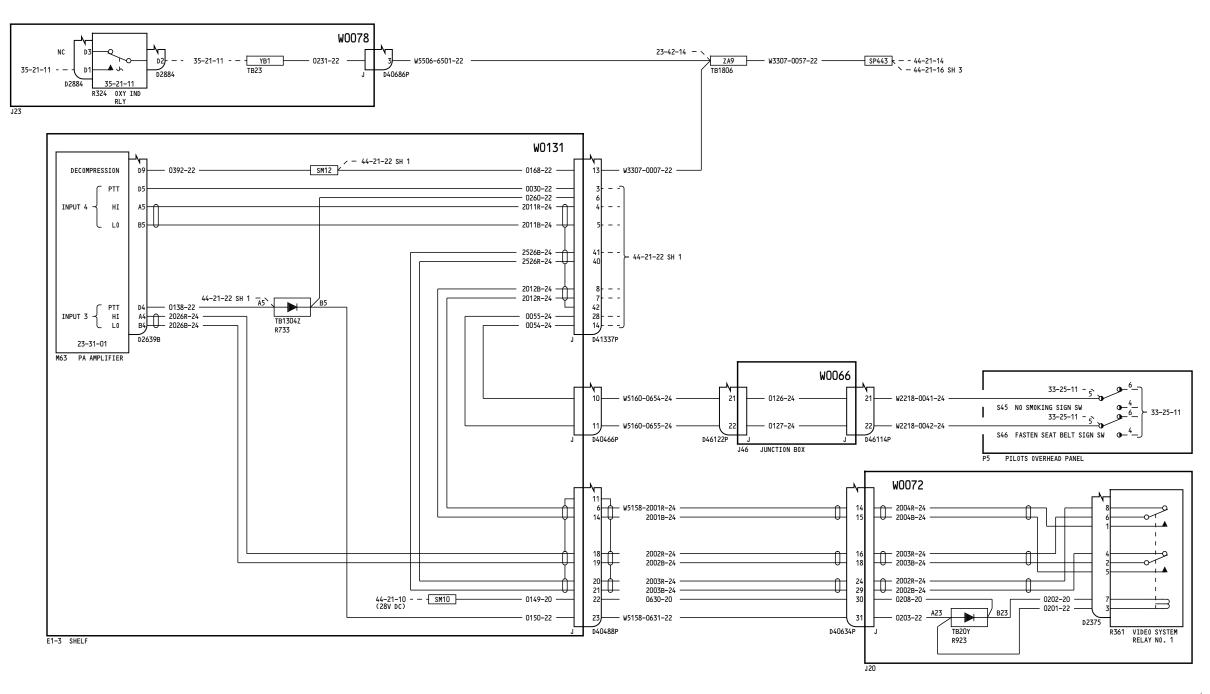
IFE - SERVER BASED SYSTEM
AIRCRAFT INTERFACES-PRAM/
PA/KEYLINE DISCRETES

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YT113-YT120

IFE - SERVER BASED SYSTEM
AIRCRAFT INTERFACES-PRAM/
PA/KEYLINE DISCRETES

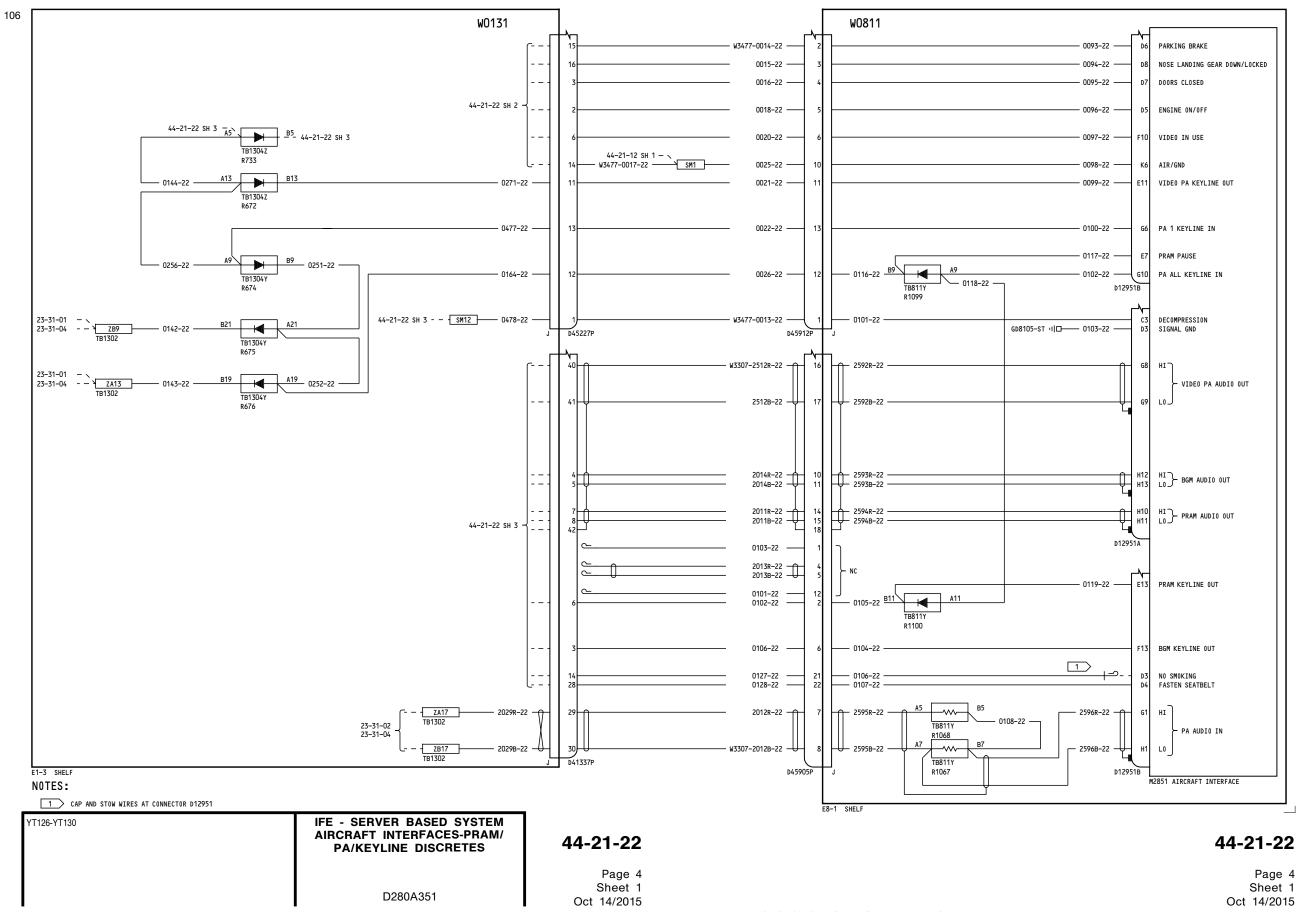
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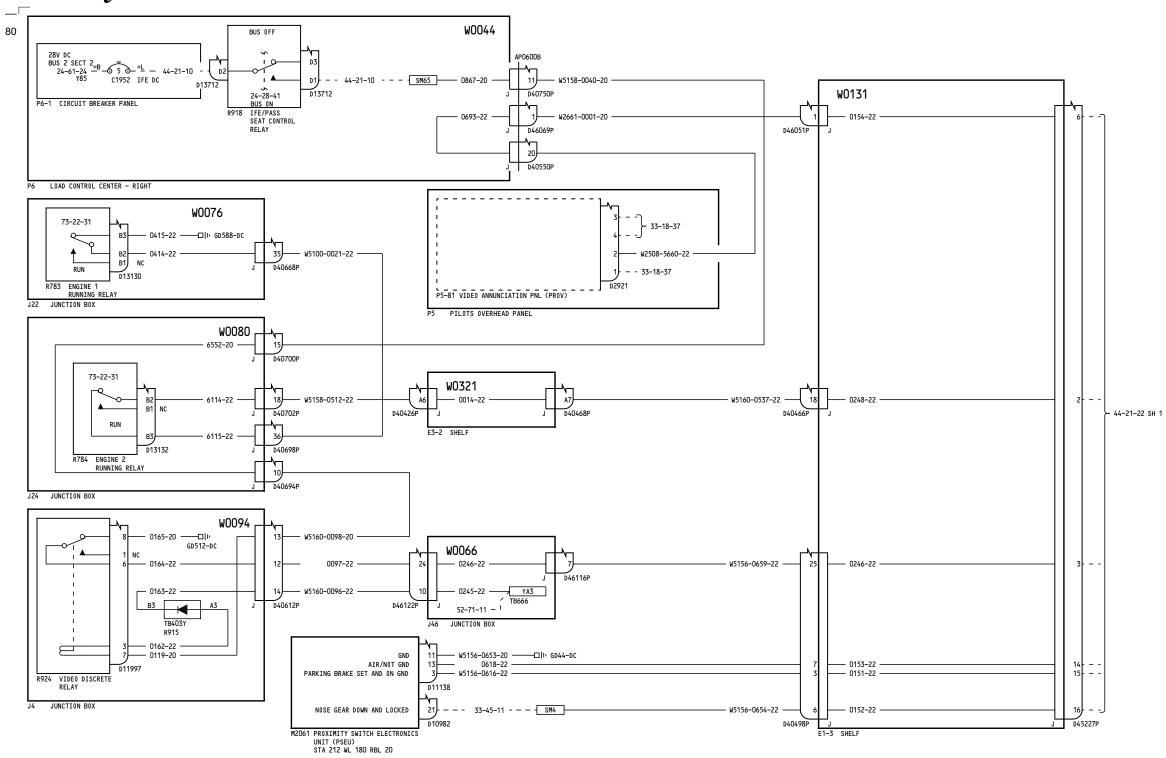
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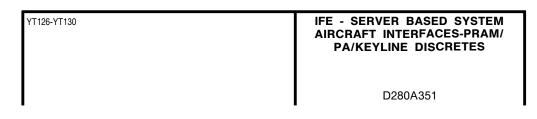
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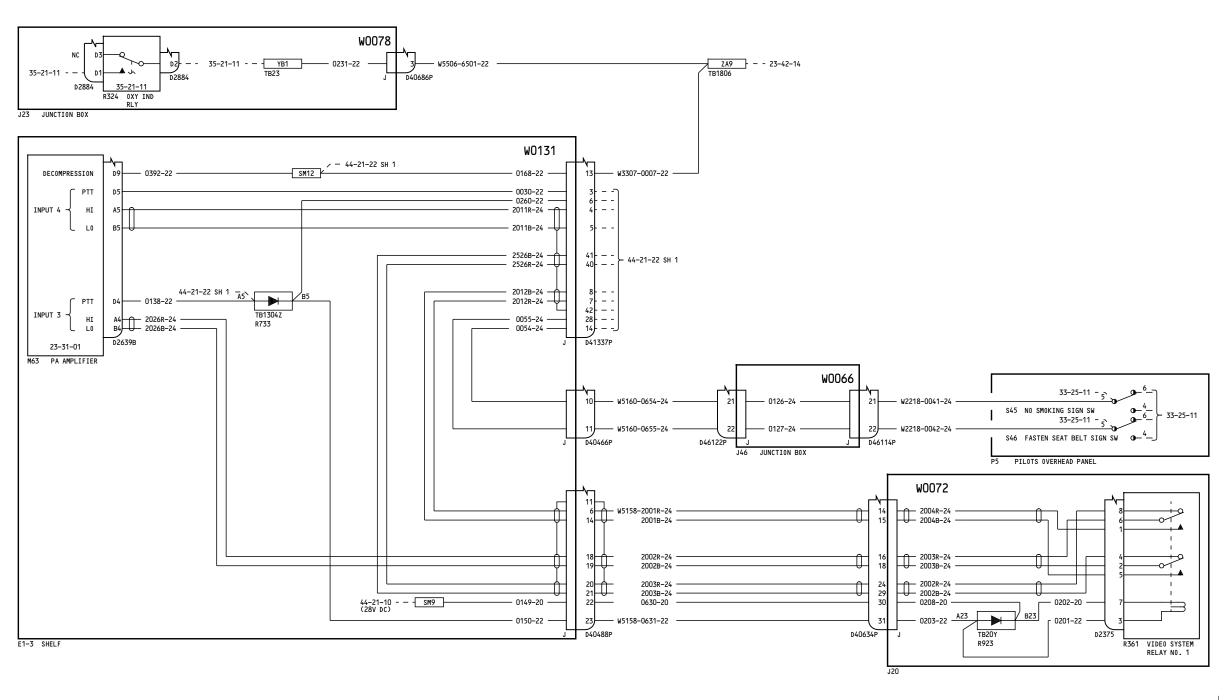


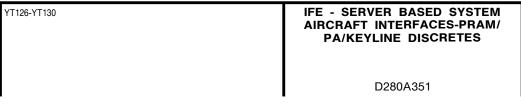


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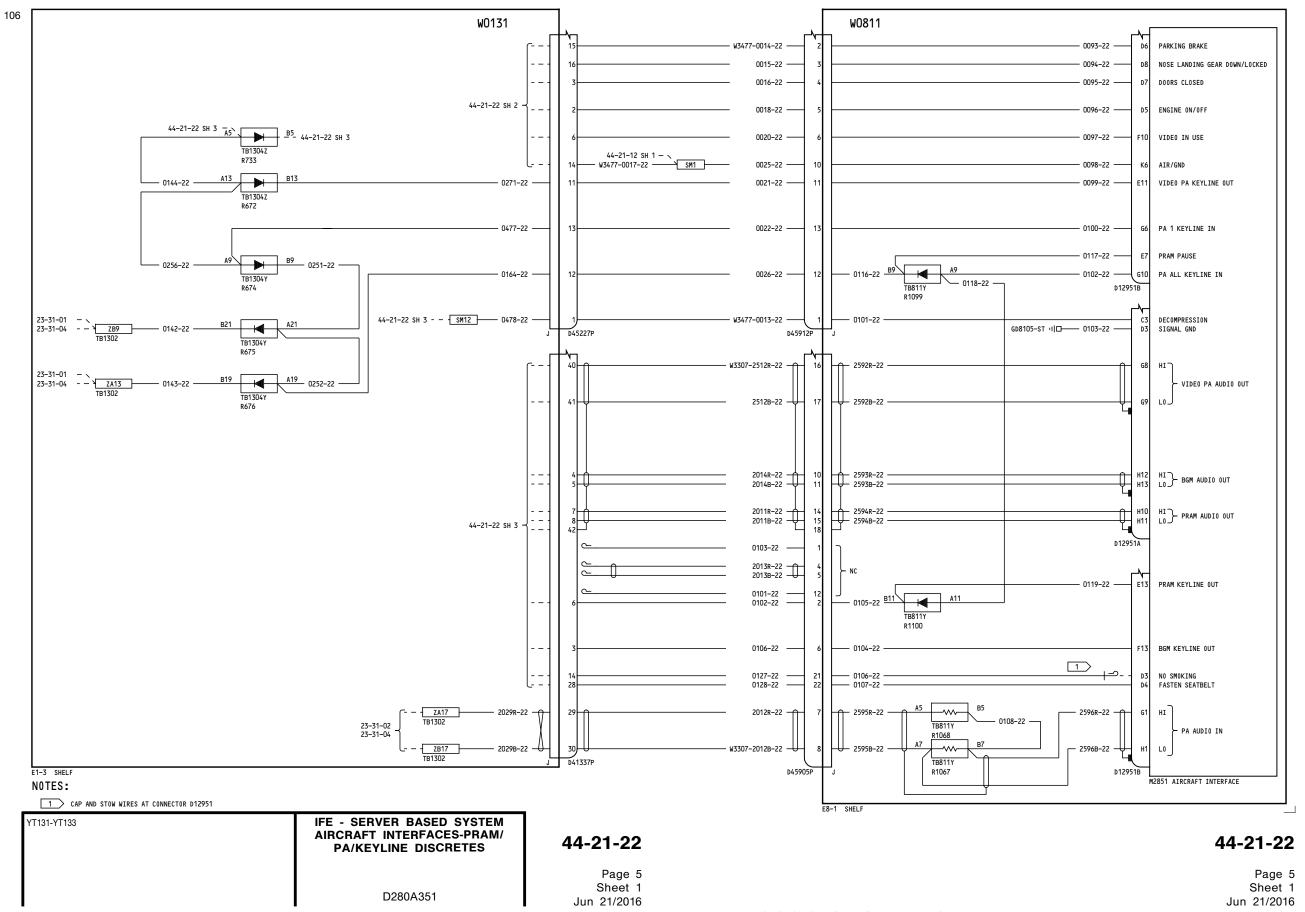


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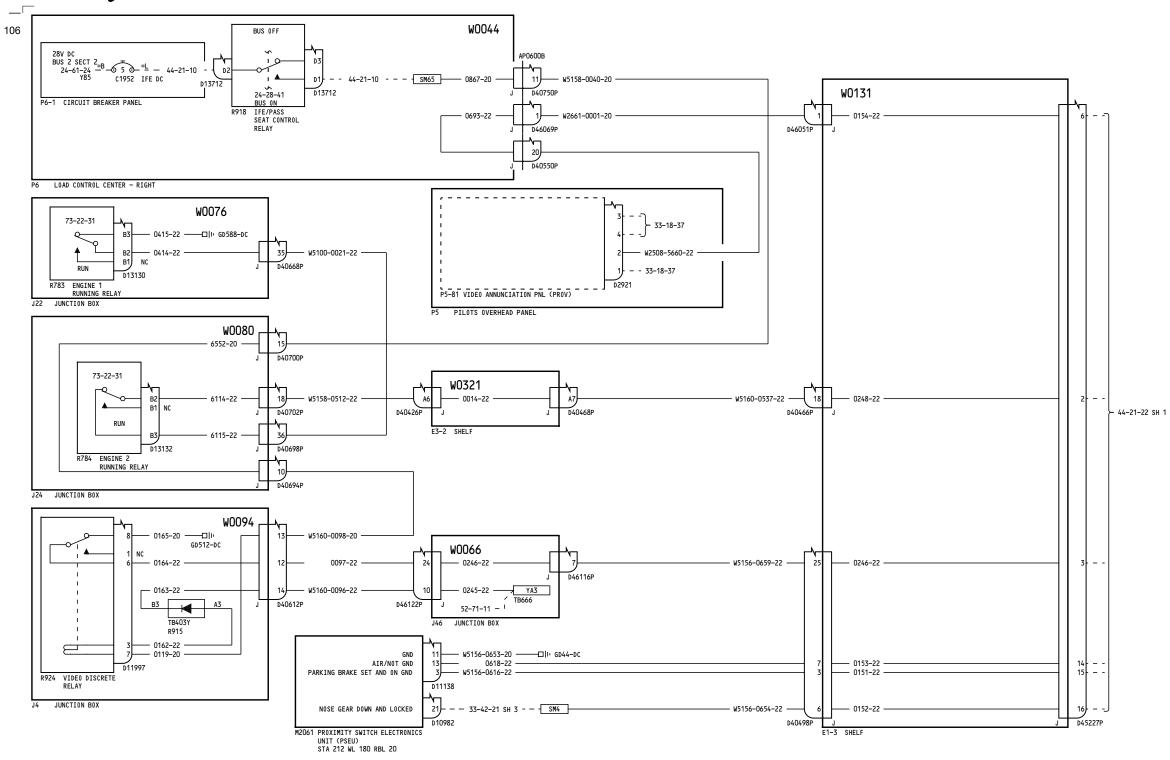
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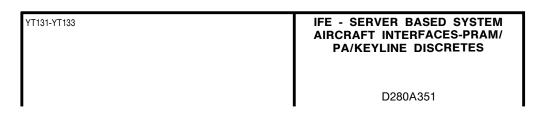
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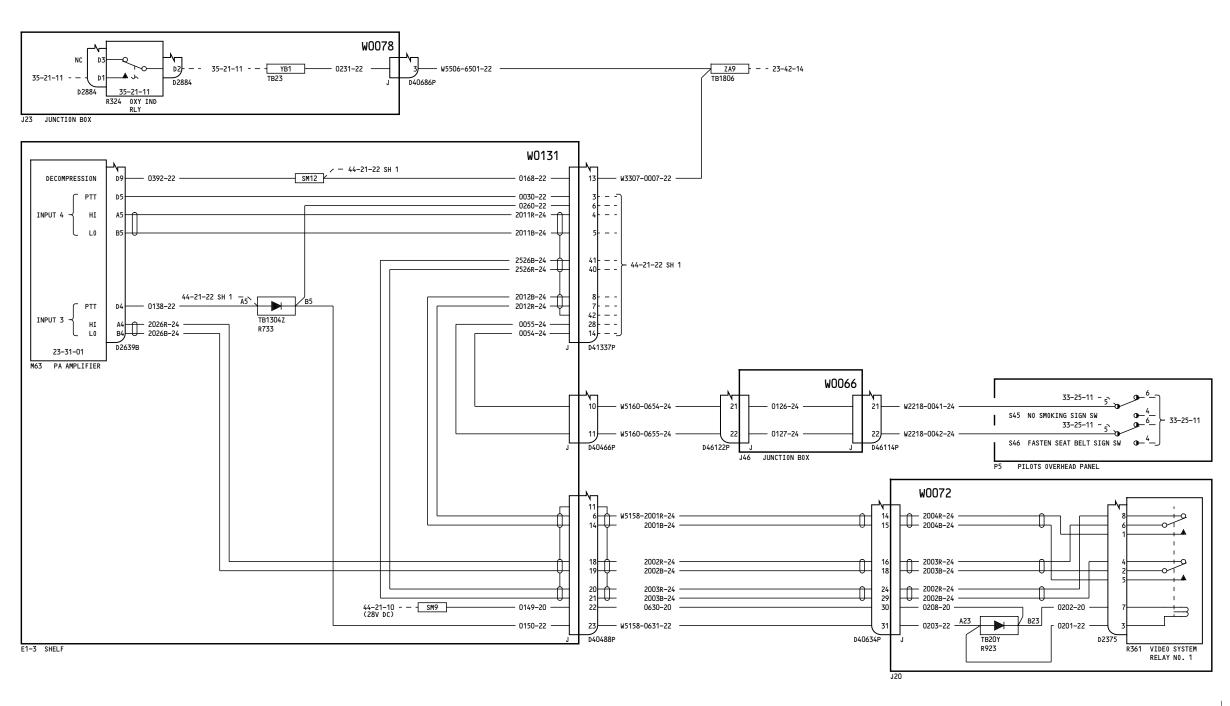


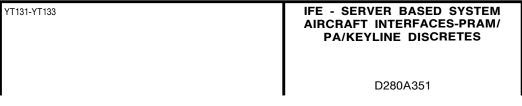


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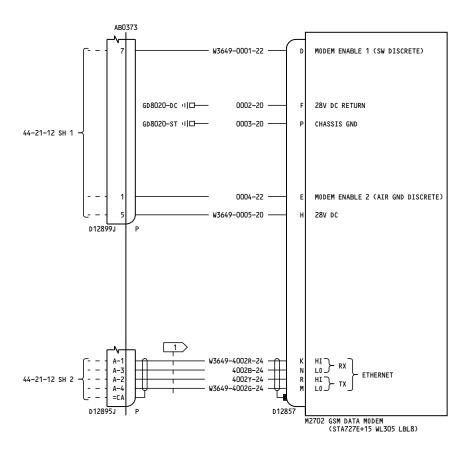




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NOTES:

1 CABLE P/N BMS13-72T03C04G24 (QUADRAX).

YT101-YT120	EXTERNAL COMMUNICATION SYSTEM-WIRELESS GATELINK
	D280A351

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Page 1

NOTES:

1 CABLE P/N BMS13-72T03C04G24 (QUADRAX).

YT126-YT133	EXTERNAL COMMUNICATION SYSTEM-WIRELESS GATELINK	44
	D280A351	J

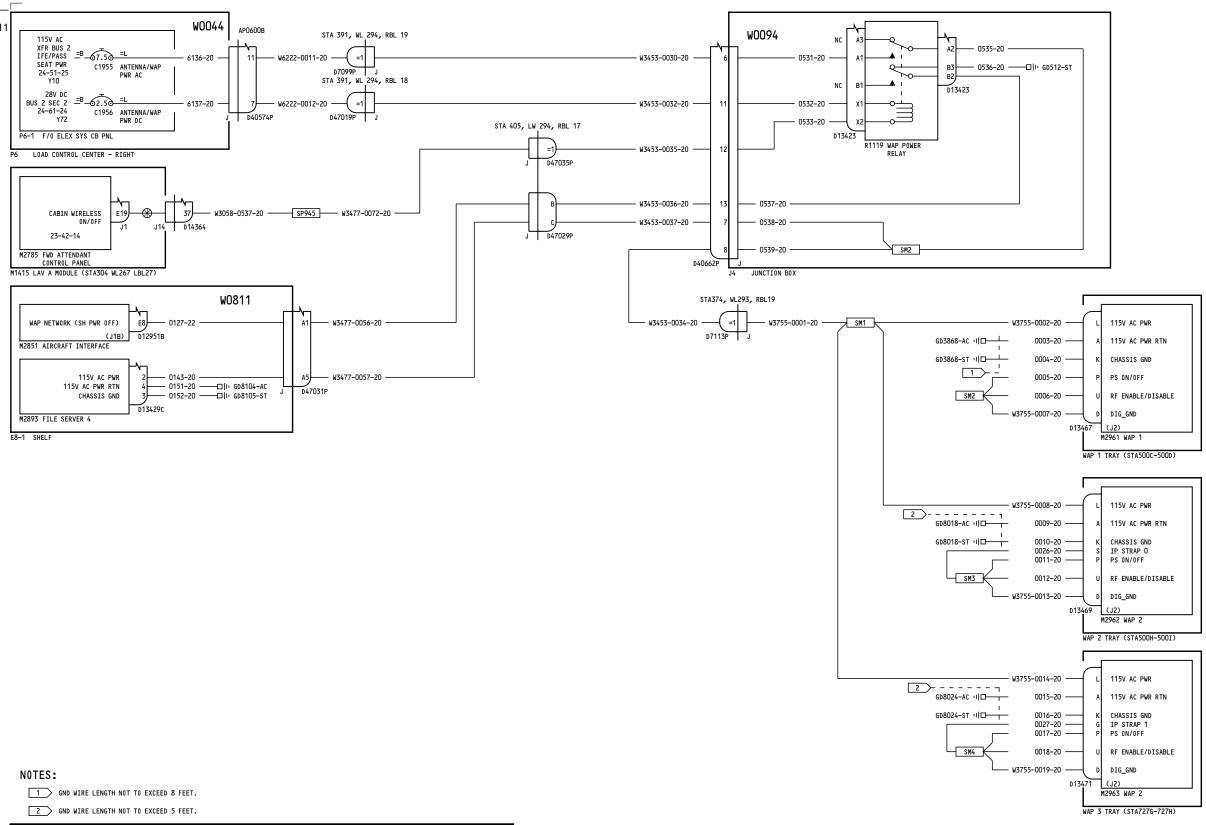
44-30-11

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Jun 21/2016

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YT101-YT102

CABIN WIRELESS
POWER

D280A351

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Jan 12/2015

Incorporates

44-1010

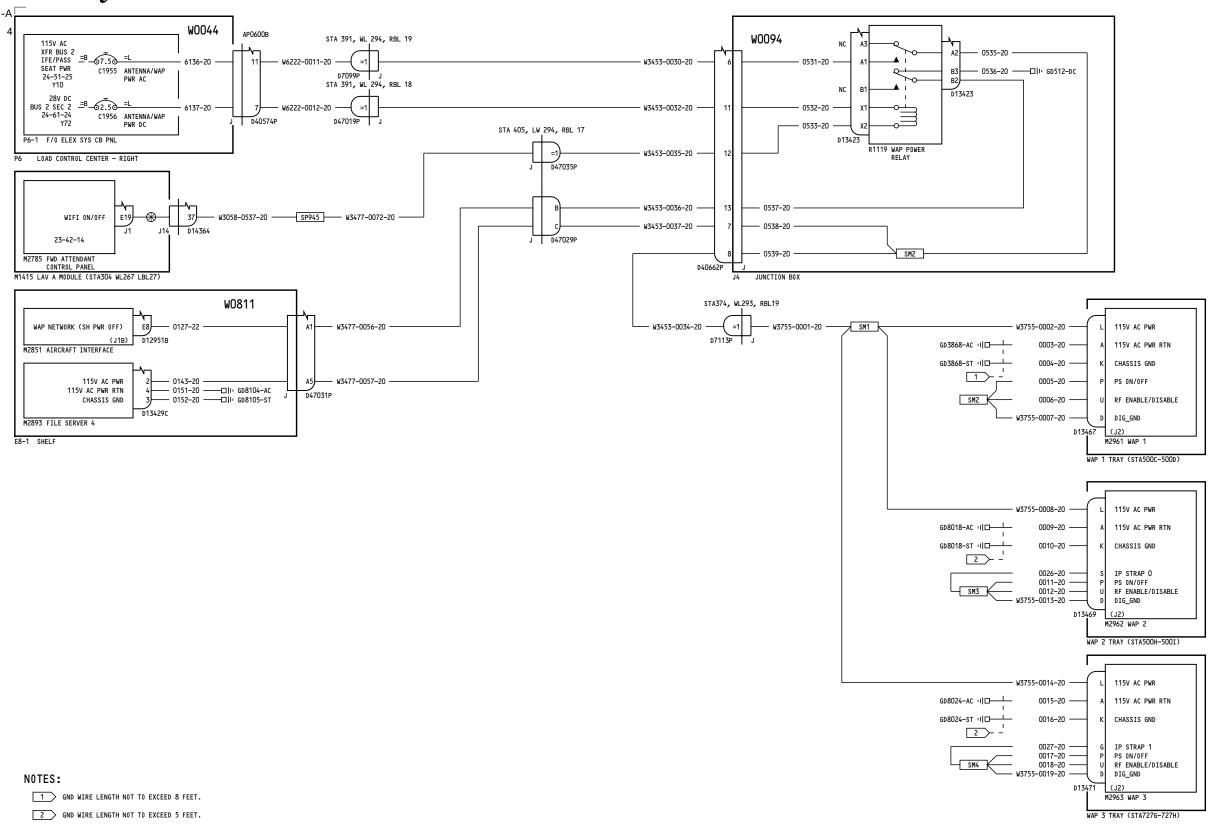
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44-35-20

Page 1.1

Jan 12/2015
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YT103-YT120	CABIN WIRELESS POWER	4	14-
	D280A351		Ма

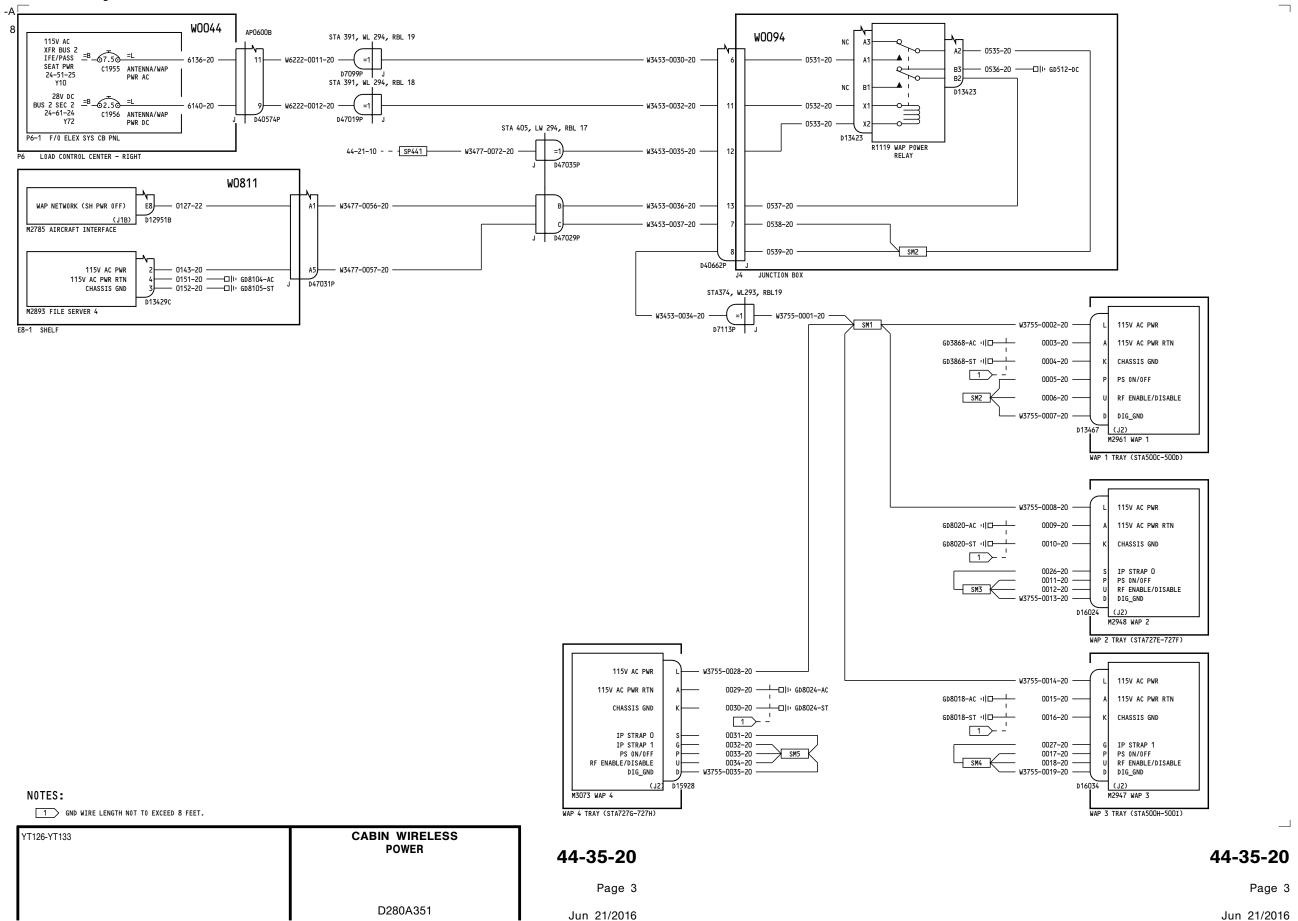
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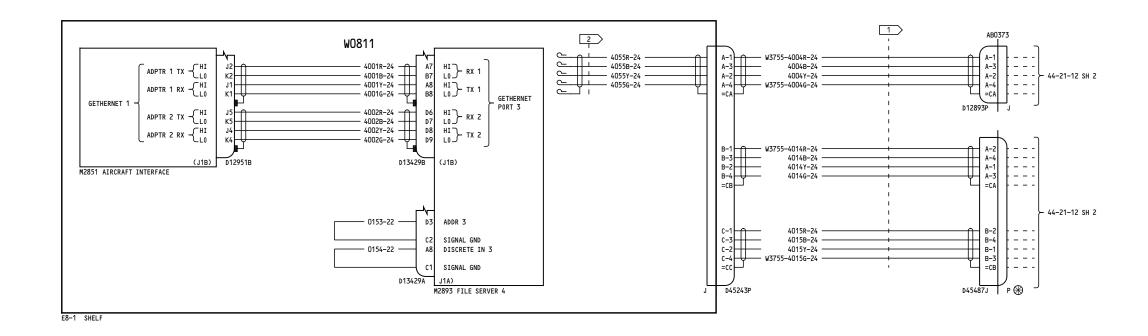
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1 BMS13-72T03C04G24

2 COIL AND STOW NEAR D13429B

YT101-YT102

CABIN WIRELESS
DATA

D280A351

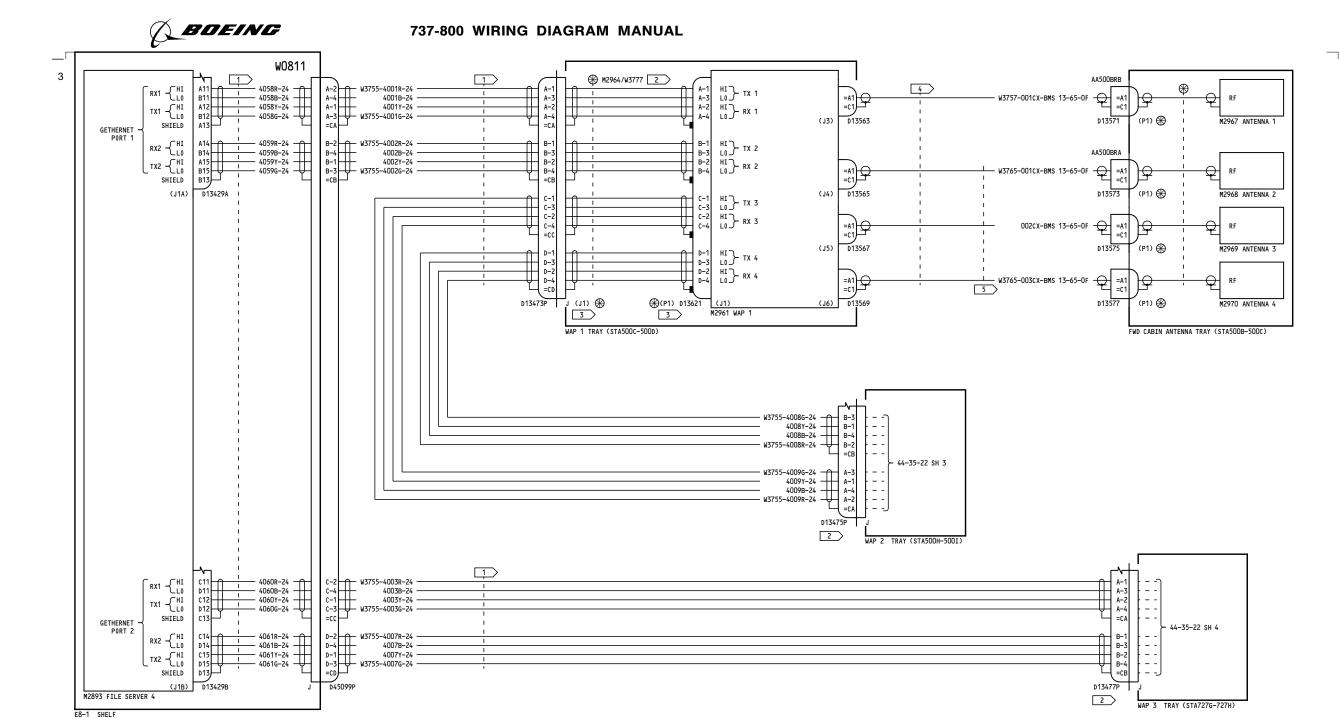
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44-1010

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1 BMS13-72T03C04G24

2 PANASONIC CABLE P/N WM13298-002 - BOEING IDENTIFIED AS W3777-001.

3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

4 WIRE LENGTH NOT TO EXCEED 48 INCHES.

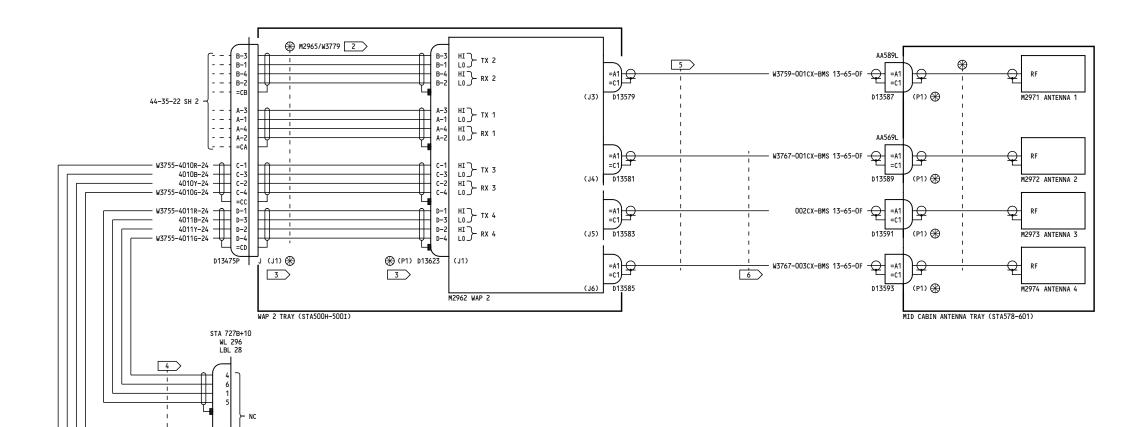
5 COAX LENGTH SHOULD MATCH.

YT101-YT102	CABIN WIRELESS Data
	D280A351

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NOTES:

1 BMS13-72T03C04G24

2 PANASONIC CABLE P/N WM13298-002 - B0EING IDENTIFIED AS W3779-001

3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

4 CAP AND STOW NEAR D45493J (STA 727B+10) FOR FUTURE SYSTEM FUNCTIONALITY.

5 WIRE LENGTH NOT TO EXCEED 203 INCHES.

6 COAX LENGTH SHOULD MATCH.

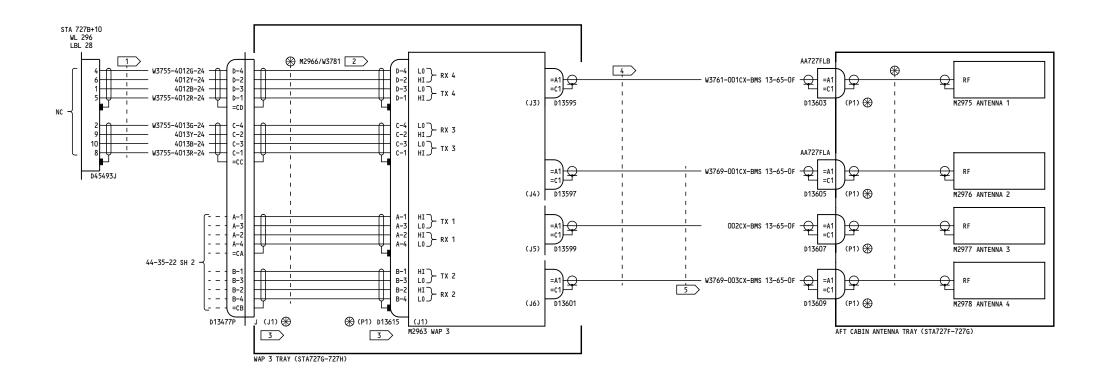
YT101-YT102	CABIN WIRELESS Data
	D280A351

D45493F

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1 BMS13-72T03C04G24

2 PANASONIC CABLE P/N WM13298-002 - BOEING IDENTIFIED AS W3781-001

3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

4 WIRE LENGTH NOT EXCEED 48 INCHES.

5 COAX LENGTH SHOULD MATCH.

YT101-YT102	CABIN WIRELESS Data
	D280A351

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W0811

ADPTR 1 TX HI
ADPTR 2 TX HI
ADPTR 2 TX HI
ADPTR 2 RX HI
ADPTR 3 RX 2
ADPTR 3 RX 2
ADPTR 3 RX 2
ADDR 3
ADDR 3
SIGNAL GND
D13429B

D13429B

D13429B

SIGNAL GND
D13429B

D13429A

D13429A

BISCRETE IN 3
SIGNAL GND
D13429B

D13429A

D13429A

SIGNAL GND
D13429A

D13429A

SIGNAL GND
D13429A

S

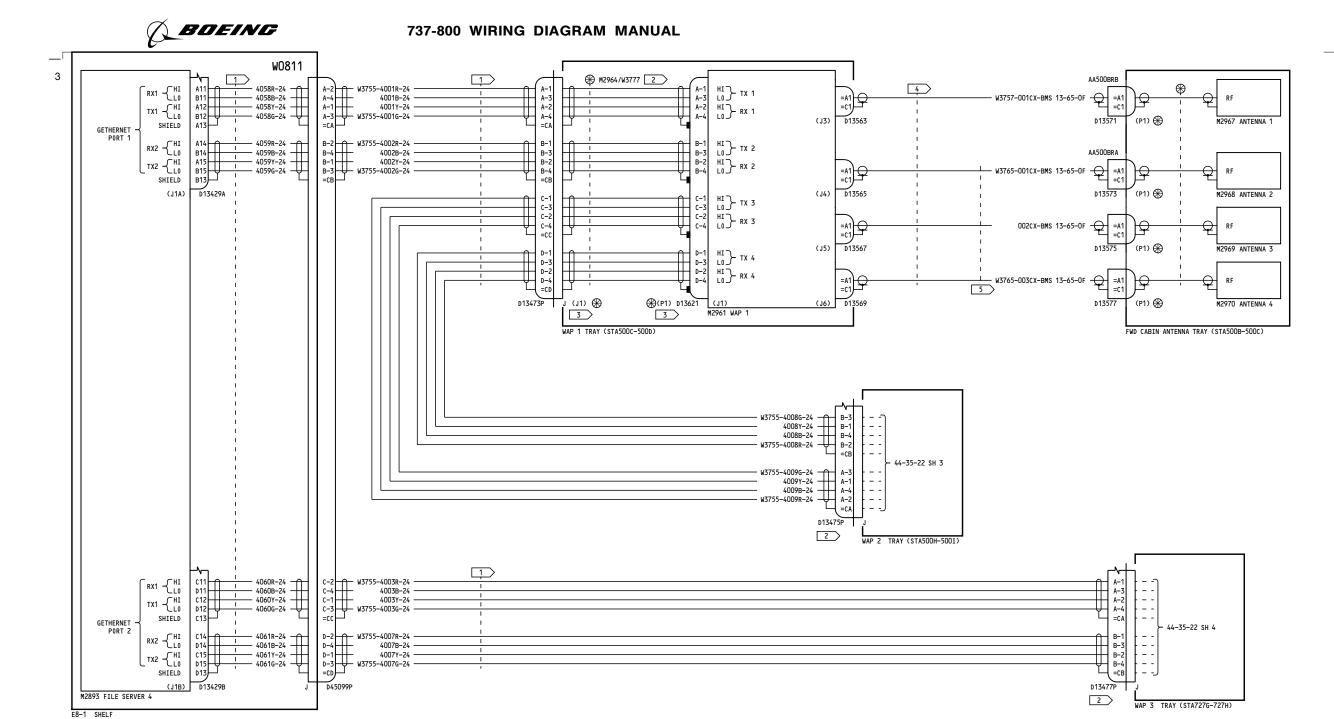
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1 BMS13-72T03C04G24

YT103-YT105	CABIN WIRELESS DATA	44-35-22
	D280A351	Page 2 Sheet 1 Apr 17/2014

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1 BMS13-72T03C04G24

2 PANASONIC CABLE P/N WM13298-002 - BOEING IDENTIFIED AS W3777-001.

3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

4 WIRE LENGTH NOT TO EXCEED 48 INCHES.

5 COAX LENGTH SHOULD MATCH.

YT103-YT105

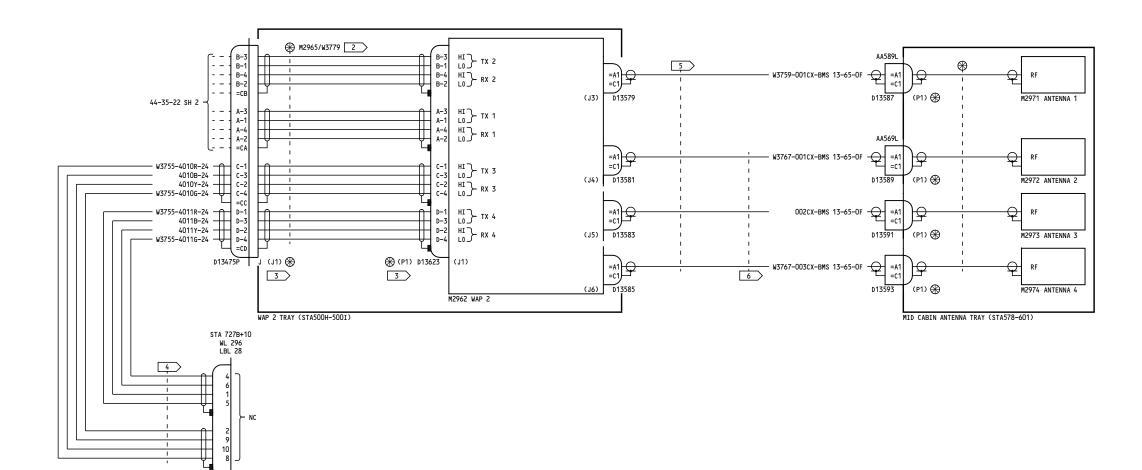
CABIN WIRELESS
DATA

D280A351

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NOTES:

1 BMS13-72T03C04G24

2 PANASONIC CABLE P/N WM13298-002 - B0EING IDENTIFIED AS W3779-001

3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

4 CAP AND STOW NEAR D45493J (STA 727B+10) FOR FUTURE SYSTEM FUNCTIONALITY.

5 WIRE LENGTH NOT TO EXCEED 203 INCHES.

6 COAX LENGTH SHOULD MATCH.

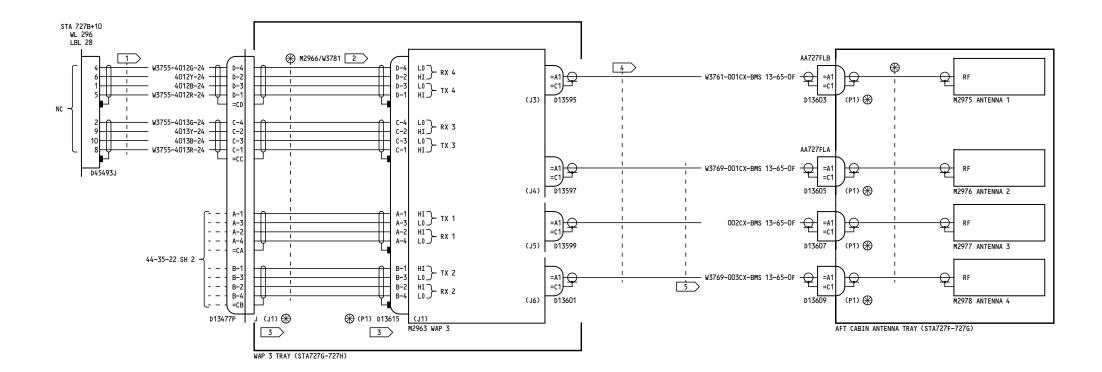
YT103-YT105	CABIN WIRELESS Data
	D280A351

D45493F

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Page 2 Sheet 3 Apr 17/2014



1 BMS13-72T03C04G24

2 PANASONIC CABLE P/N WM13298-002 - BOEING IDENTIFIED AS W3781-001

3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

4 WIRE LENGTH NOT EXCEED 48 INCHES.

5 COAX LENGTH SHOULD MATCH.

YT103-YT105	CABIN WIRELESS Data
	D280A351

44-35-22

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Page 2 Sheet 4 Apr 17/2014 1

W0811

4001R-24
4001B-24
4001R-24
4001R

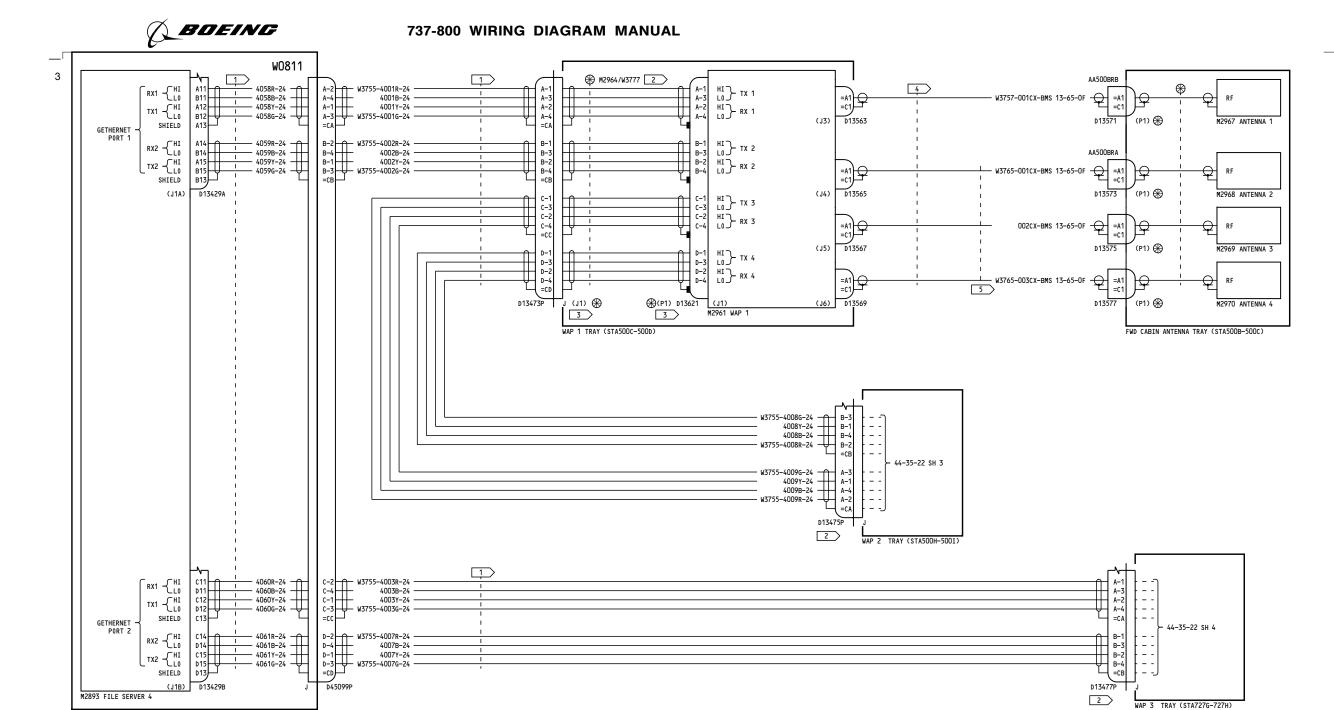
NOTES:

1 BMS13-72T03C04G24

YT106-YT120	CABIN WIRELESS Data	44-35-22
	D280A351	Page 3 Sheet 1 Mar 14/2016

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E8-1 SHELF

1 BMS13-72T03C04G24

2 PANASONIC CABLE P/N WM13298-002 - BOEING IDENTIFIED AS W3777-001.

3 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

4 WIRE LENGTH NOT TO EXCEED 48 INCHES.

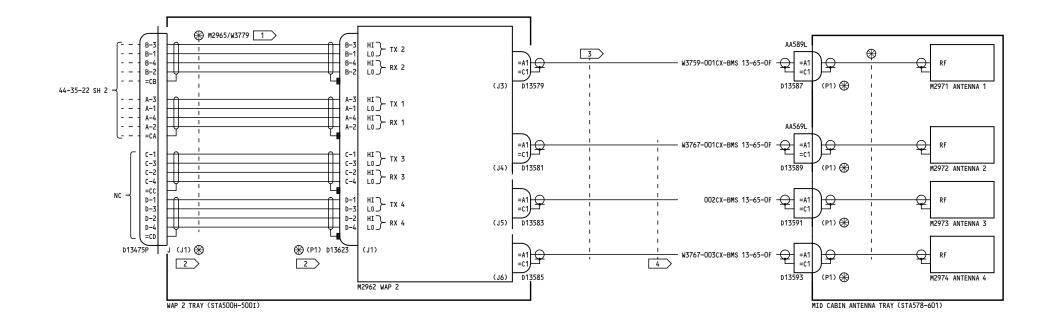
5 COAX LENGTH SHOULD MATCH.

YT106-YT120	CABIN WIRELESS Data
	D280A351

44-35-22

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1 PANASONIC CABLE P/N WM13298-002 - BOEING IDENTIFIED AS W3779-001

2 VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION.

3 WIRE LENGTH NOT TO EXCEED 203 INCHES.

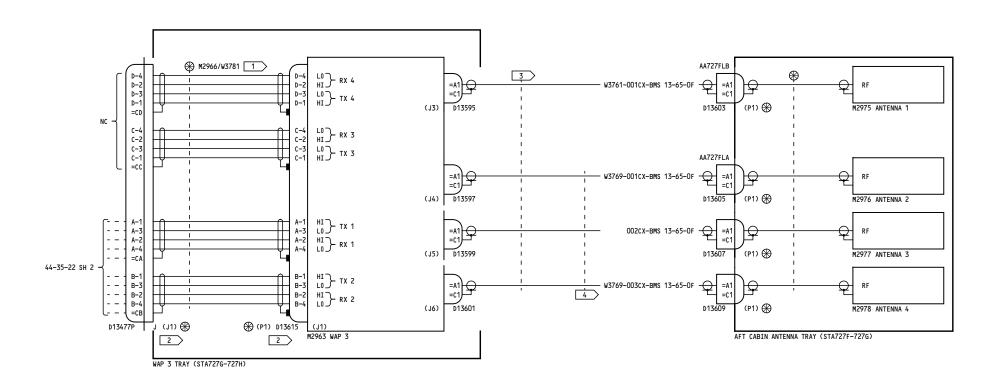
4 COAX LENGTH SHOULD MATCH.

YT106-YT120	CABIN WIRELESS DATA
	D280A351

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1 PANASONIC CABLE P/N WM13298-002 - BOEING IDENTIFIED AS W3781-001

 $\begin{tabular}{ll} {\bf 2} \end{tabular} \begin{tabular}{ll} {\bf VENDOR BUNDLE CONNECTORS LABELLED WITH BOEING "D" NUMBERS FOR INSTALLATION. \end{tabular}$

3 WIRE LENGTH NOT EXCEED 48 INCHES.

4 COAX LENGTH SHOULD MATCH.

YT106-YT120	CABIN WIRELESS DATA
	D280A351

44-35-22

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-A [

W0811 J2 4077R-24 -K2 4077B-24 -J1 4077Y-24 -K1 4077G-24 -GETHERNET PORT 3 J5 4078R-24 - 4078B-24 - 4078Y-24 - 4078G-24 D6 HI RX 2
D8 HI TX 2
D9 L0 TX 2 P1 GETHERNET 2 W3755-4014R-24 -B-3 4014B-24 -B-2 4014Y-24 -CB 4014G-24 -4056R-24 -B1 4056B-24 -A2 4056Y-24 -B2 4056G-24 -D13429B (J1B) M2851 AIRCRAFT INTERFACE (J1B) D13429B GETHERNET PORT 5 -- 44-21-12 SH 2 D3 ADDR 3 0153-22 -D12 4057R-24 - 4057B-24 - 4057G-24 - $\begin{bmatrix} RX & 2 & -\begin{cases} HI \\ L0 \end{bmatrix} \\ TX & 2 & -\begin{cases} HI \\ L0 \end{bmatrix} \end{bmatrix}$ C-1 4015R-24 - 4015B-24 - 4015Y-24 - 4015Y-2 4015R-24 4015B-24 ADDR 3 GND - 0154-22 -DISCRETE IN 3 SIGNAL GND D45243P D13429A J1A) (J1A) D13429A M2893 FILE SERVER 4

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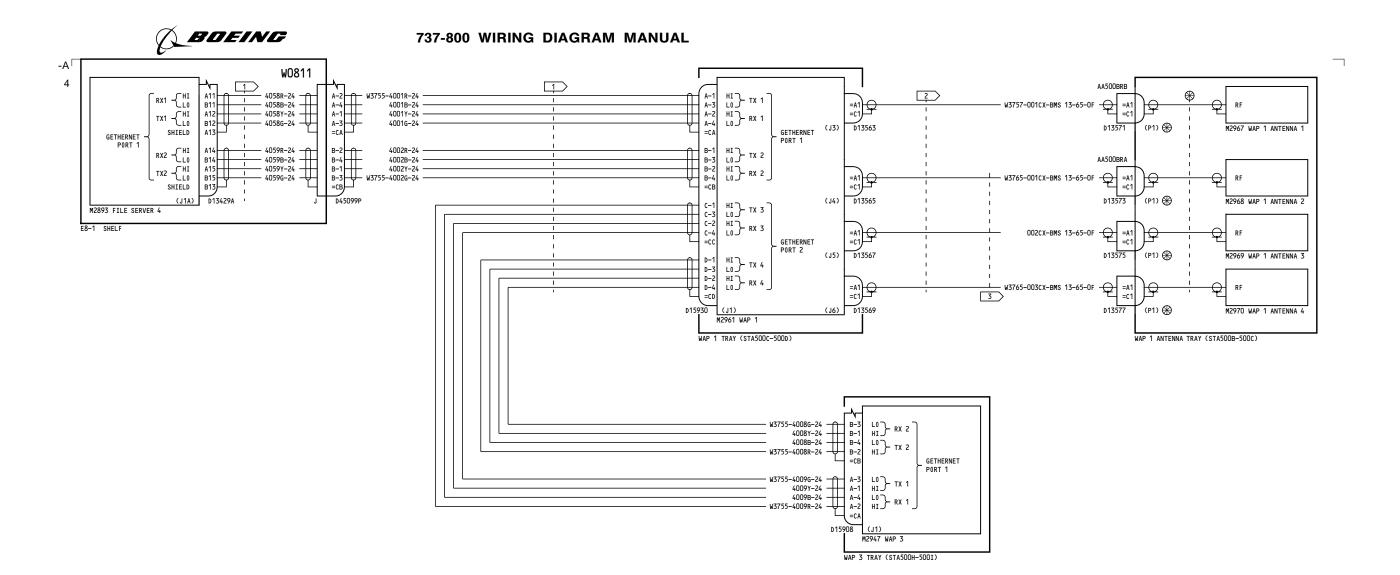
1 BMS13-72T03C04G24

E8-1 SHELF

YT126-YT133	CABIN WIRELESS Data	44-35-22
	D280A351	Page 4 Sheet 1 Jun 21/2016

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1 BMS13-72T03C04G24

2 WIRE LENGTH NOT TO EXCEED 48 INCHES.

3 COAX LENGTH SHOULD MATCH.

YT126-YT133

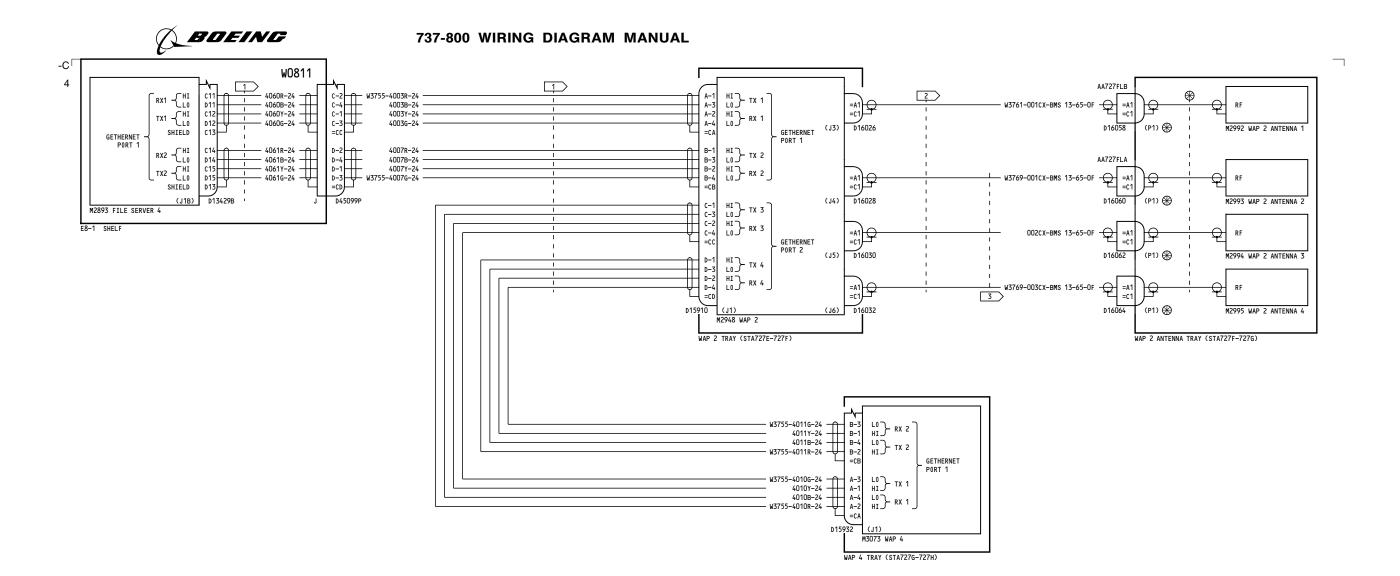
CABIN WIRELESS
DATA

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1 BMS13-72T03C04G24

2 WIRE LENGTH NOT TO EXCEED 48 INCHES.

3 COAX LENGTH SHOULD MATCH.

YT126-YT133

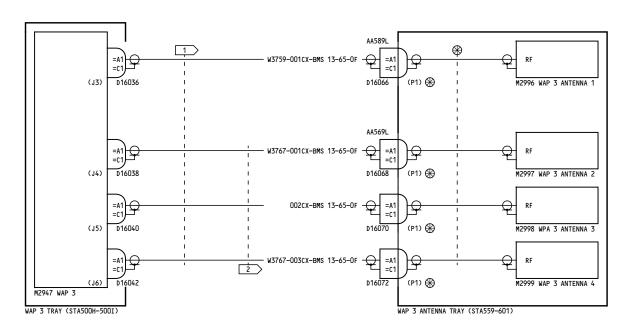
CABIN WIRELESS
DATA

D280A351

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NOTES:

1 WIRE LENGTH NOT EXCEED 203 INCHES.

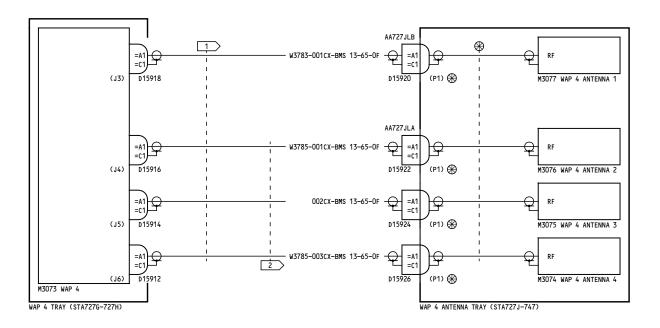
2 COAX LENGTH SHOULD MATCH.

YT126-YT133	CABIN WIRELESS Data
	D280A351

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1 WIRE LENGTH NOT TO EXCEED 10 FEET.

2 COAX LENGTH SHOULD MATCH.

YT126-YT133	CABIN WIRELESS DATA
	D280A351

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