

757-200 WIRING DIAGRAM MANUAL

GPA GROUP PLC

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DOCUMENT D280N032



This manual is applicable to the aircraft on this list:

		Oper	ator		Manufacturer		
	Model-Series	Identification Code	Effectivity Code	Block Number	Serial Number	Line Number	Registration Number
	757-2Y0	SBE	001	NB321	25240	388	XA-MTY
ı	757-2Y0	BRI	002	NB322	25268	400	G-CPEP
	757-2Y0	TIU	003	NB323	26151	472	G-ZAPU
	757-2Y0	AVI	004	NB324	26152	478	EI-CEY
	757-2Y0	XIJ	005	NB325	26153	482	B-2831
	757-2Y0	AVI	006	NB326	26154	486	EI-CEZ
	757-2Y0	XIN	007	NB327	26155	495	B-2826
	757-2Y0	XIJ	800	NB328	26156	503	B-2827
ı	757-2Y0	BRI	009	NB329	26158	526	G-OOOX
	757-2Y0	JMA	010	NB330	26160	555	G-FCLJ
	757-2Y0	JMA	011	NB331	26161	557	G-FCLK
ı	757-236	FED	115	NA346	25054	362	N910FD



GPA GROUP PLC Revision No. 14

Oct 09/2008

To: All holders of this Boeing Document D280N032

Attached is the current revision to the 757 Wiring Diagram Manual (WDM).

The manual is available either as a printed manual, on microfilm, or digital products, or any combination of the three. This revision replaces all previous microfilm cartridges or digital products. All microfilm and digital products are reissued with all obsolete data deleted and all updated pages added.

For printed manuals, changes are indicated on the Effective Pages. The pages which are revised will be identified on the Effective Pages by an R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). Each page in the Effective Pages is identified by Chapter-Section-Subject number, page number and page date. Pages replaced or deleted by this revision should be removed and destroyed.

All pages are included in this revision. Revision bars on the pages identify current revision changes.

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Location of Change	Description of Change
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SERVICE BULLETIN LIST 23-0101 Title updated

24-0077 Added 24-0125 Added 24-0126 Added

27-0110 Title updated 27A0105 Added 28-0095 Added 28A0081 Added 28A0088 Added 28A0105 R01 Added 31-0034 R02 Added 34-0132 R03 Added 34-0303 Added 34-0307 R01 Added 34-0394 Title updated

34-0400 ATA's updated 34-0414 Title updated SB 28A0085 R01 Added

INTRODUCTION

DEFINITIONS 1-685040838

CHARTS AND LISTS

LISTS 1-685084503

CODES

TERMINAL INFORMATION 1-674541630 SR 1-921444887

MANUAL USAGE

METHODS USED TO FIND INFORMATION 1-765400160

CHAPTER 21

21-58-15

Page 3.1 24-0126

CHAPTER 24

24-11-11

Page 1.1, Sheet 1 24-0077

24-11-11

Page 2.1, Sheet 1 24-0077

24-11-11

Page 3.1, Sheet 1 24-0077

24-11-21

Page 1.1, Sheet 1 24-0077

24-11-21

Page 2.1, Sheet 1 24-0077



Location of Change	Description of Change
CHAPTER 24 (cont.)	
24-25-11	
Page 3.1	24-0126
24-25-12	
Page 1.1	24-0126
24-25-13	
Page 1.1	24-0126
24-31-11	
Page 1.1	24-0125
	24-0126
24-31-41	
Page 4.1	24-0125
24-33-11	a. a.a.
Page 2.1, Sheet 1	24-0125
24-33-11	04.0405
Page 2.1, Sheet 2	24-0125
24-33-12	04.0405
Page 5.1	24-0125
24-34-11	04.0405
Page 2.1, Sheet 1	24-0125
24-51-11	04.0400
Page 2.1	24-0126
24-51-15	24-0126
Page 2.1 24-51-21	24-0120
	24-0126
Page 3.1 24-51-25	24-0120
Page 3.1	24-0126
24-51-31	24-0120
Page 2.1	24-0125
24-54-11	
Page 1.1	28A0081
24-54-11	
Page 1.2	28A0081
24-54-11	
Page 1.3	28A0081
24-54-11	
Page 2.1	28A0081
24-54-11	
Page 3.1	28A0081
24-54-21	
Page 1.1, Sheet 2	28A0081
24-54-21	
Page 2.1, Sheet 2	28A0081



Location of Change	Description of Change
CHAPTER 24 (cont.) 24-54-21	
Page 3.1, Sheet 2 24-54-71	28A0081
Page 4.1	24-0125 24-0126
<u>CHAPTER 28</u> 28-22-11	
Page 1.1, Sheet 1 28-22-11	28A0081 28A0105 R01
Page 1.1, Sheet 2	28-0095 28A0081
28-22-11 Page 1.1, Sheet 3	28-0095 28A0081 28A0105 R01
28-22-11 Page 1.1, Sheet 4 28-22-11	28-0095
Page 2.1, Sheet 1	28A0081 28A0105 R01
28-22-11 Page 2.1, Sheet 2	28-0095 28A0081
28-22-11 Page 2.1, Sheet 3	28-0095 28A0081 28A0105 R01
28-22-11 Page 2.1, Sheet 4 28-22-11	28-0095
Page 3.1, Sheet 1	28A0081 28A0105 R01
28-22-11 Page 3.1, Sheet 2	28-0095 28A0081
28-22-11 Page 3.1, Sheet 3	28-0095 28A0081 28A0105 R01
28-22-11 Page 3.1, Sheet 4	28-0095

757-200 WIRING DIAGRAM MANUAL

Location of Change	Description of Change
CHAPTER 28 (cont.)	
28-41-41	
Page 1.1	SB 28A0085 R01
28-41-41	
Page 2.1	SB 28A0085 R01
28-42-11	20 / 0001
Page 1.1, Sheet 1 28-42-11	28A0081
Page 2.1, Sheet 1	28A0081
CHAPTER 31	
31-31-21	
Page 1.1	31-0034 R02
CHAPTER 33	
33-21-51	
Page 2.1	24-0126
33-22-11	
Page 2.1, Sheet 2	24-0126
33-26-11	24-0126
Page 2.1 33-51-11	24-0120
Page 2.1	24-0126
S .	
CHAPTER 34	
34-12-12	0.4.0.4.0.0 D00
Page 1.2 34-12-12	34-0132 R03
Page 1.3	34-0132 R03
34-21-11	04 0 102 1 100
Page 1.1	34-0303
	34-0307 R01
34-21-11	
Page 1.2	34-0303
34-21-21	34-0307 R01
Page 1.1	34-0303
1 ago 1.1	34-0307 R01
34-21-21	
Page 1.2	34-0303
	34-0307 R01
34-21-21	0.4.0000
Page 2.1	34-0303

34-0307 R01



Location of Change	Description of Change
CHAPTER 34 (cont.)	
34-21-31	
Page 1.1	34-0303
	34-0307 R01
34-21-31	
Page 2.1	34-0303
	34-0307 R01
CHAPTER 49	
49-41-11	
Page 2.1	24-0125
CHAPTER 91	
91-02-19	
Page 1.1, Sheet 1	28A0105 R01
91-02-19	
Page 1.1, Sheet 2	28A0081
91-02-19	
Page 2.1, Sheet 1	28A0105 R01
91-02-19	0040004
Page 2.1, Sheet 2	28A0081
91-02-26 Page 1.1, Sheet 2	28A0081
91-02-26	20/10001
Page 1.1, Sheet 5	28A0105 R01
91-02-26	
Page 2.1, Sheet 2	28A0081
91-02-26	
Page 2.1, Sheet 5	28A0105 R01
EQUIPMENT LIST	
EQUIPMENT LIST	22A0049
	27-0110
	27A0105
	28A0088

WIRE LIST

27-0110



Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
TITLE PAGE		SERVICE BULLE	SERVICE BULLETIN LIST (cont.)		INDEX (cont.)
R 1	Oct 09/2008	R 7	Oct 09/2008	24	Dec 18/2007
2	BLANK	R 8	Oct 09/2008	25	Dec 18/2007
EFFECTIVE AIRC	CRAFT	R 9	Oct 09/2008	26	Dec 18/2007
R 1	Oct 09/2008	O 10	Oct 09/2008	GENERAL INFOR	RMATION
2	BLANK	R 11	Oct 09/2008	1	Dec 18/2007
TRANSMITTAL L	ETTER	R 12	Oct 09/2008	2	Dec 18/2007
R 1	Oct 09/2008	O 13	Oct 09/2008	3	Dec 18/2007
2	BLANK	R 14	Oct 09/2008	4	Dec 18/2007
HIGHLIGHTS		CUSTOMER CHA		DEFINITIONS	
R 1	Oct 09/2008	1	Jan 21/2005	1	Dec 18/2007
R 2	Oct 09/2008	2	BLANK	2	Dec 18/2007
R 3	Oct 09/2008	ALPHABETICAL	INDEX	3	Dec 18/2007
R 4	Oct 09/2008	1	Jan 21/2005	4	Dec 18/2007
R 5	Oct 09/2008	2	May 17/2006	5	Dec 18/2007
R 6	BLANK	3	Dec 18/2007	R 6	Oct 09/2008
EFFECTIVE PAGES		4	May 17/2006	7	Dec 18/2007
1 thru 2	Oct 09/2008	5	May 17/2006	8	Dec 18/2007
EFFECTIVE CHA		6	May 17/2006	9	Dec 18/2007
R 1	Oct 09/2008	7	May 17/2006	10	BLANK
2 BOEING REVISION	BLANK	8	May 17/2006	EQUIPMENT LIST	
R 1	Oct 09/2008	9	May 17/2006	1	Dec 18/2007
2	BLANK	10	May 17/2006	2	Dec 18/2007
REVISION RECO		11	May 17/2006	3	Dec 18/2007
1	Jan 21/2005	12	Dec 18/2007	4	Dec 18/2007
2	Jan 21/2005	R 13	Oct 09/2008	5	Dec 18/2007
RECORD OF TEI		14		6	Dec 18/2007
REVISIONS			Dec 18/2007	WIRING DIAGRA	
1	Jan 21/2005	15	Dec 18/2007	1	Dec 18/2007
2	Jan 21/2005	16	Dec 18/2007	2	Dec 18/2007
SERVICE BULLE	TIN LIST	17	Dec 18/2007	3	Dec 18/2007
R 1	Oct 09/2008	18	Dec 18/2007	4	Dec 18/2007
R 2	Oct 09/2008	19	Dec 18/2007	5	Dec 18/2007
R 3	Oct 09/2008	20	Dec 18/2007	6	Dec 18/2007
O 4	Oct 09/2008	21	Dec 18/2007	7	Dec 18/2007
O 5	Oct 09/2008	22	Dec 18/2007		
O 6	Oct 09/2008	23	Dec 18/2007	8	Dec 18/2007

A = Added, R = Revised, D = Deleted, O = Overflow

EFFECTIVE PAGES



Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
WIRING DIAGRA	AMS (cont.)	MANUAL USAGE	E (cont.)		
9	Dec 18/2007	0 9	Oct 09/2008		
10	BLANK	10	Dec 18/2007		
CHARTS AND L	ISTS	11	Dec 18/2007		
1	Dec 18/2007	12	BLANK		
2	Dec 18/2007	STANDARD WIRI	NG PRACTICES		
3	Dec 18/2007	1	Dec 18/2007		
4	Dec 18/2007	2	BLANK		
5	Dec 18/2007				
R 6	Oct 09/2008				
7	Dec 18/2007				
8	Dec 18/2007				
9	Dec 18/2007				
10	Dec 18/2007				
11	Dec 18/2007				
12	Dec 18/2007				
CODES					
1	Dec 18/2007				
2	Dec 18/2007				
3	Dec 18/2007				
4	Dec 18/2007				
5	Dec 18/2007				
R 6	Oct 09/2008				
7	Dec 18/2007				
8	Dec 18/2007				
R 9	Oct 09/2008				
R 10	Oct 09/2008				
MANUAL USAG	E				
1	Dec 18/2007				
2	Dec 18/2007				
R 3	Oct 09/2008				
R 4	Oct 09/2008				
R 5	Oct 09/2008				
6	Dec 18/2007				
7	Dec 18/2007				
8	Dec 18/2007				

A = Added, R = Revised, D = Deleted, O = Overflow



	Chapter	Date	Title
	00	JAN 21/2005	GENERAL
R	21	OCT 09/2008	AIR CONDITIONING
	22	DEC 18/2007	AUTOFLIGHT
	23	DEC 18/2007	COMMUNICATIONS
R	24	OCT 09/2008	ELECTRICAL POWER
	25	JAN 21/2005	EQUIPMENT / FURNISHINGS
	26	DEC 18/2007	FIRE PROTECTION
	27	DEC 18/2007	FLIGHT CONTROLS
R	28	OCT 09/2008	FUEL
	29	DEC 18/2007	HYDRAULIC POWER
	30	DEC 18/2007	ICE AND RAIN PROTECTION
R	31	OCT 09/2008	INDICATING / RECORDING SYSTEMS
R	32	OCT 09/2008	LANDING GEAR
R	33	OCT 09/2008	LIGHTS
R	34	OCT 09/2008	NAVIGATION
	35	JAN 21/2005	OXYGEN
	36	DEC 18/2007	PNEUMATIC
	38	JAN 21/2005	WATER / WASTE
R	49	OCT 09/2008	AIRBORNE AUXILIARY POWER
	52	MAY 17/2006	DOORS
	71	DEC 18/2007	POWER PLANT
	73	DEC 18/2007	ENGINE FUEL AND CONTROL
	74	DEC 18/2007	IGNITION
	75	JAN 21/2005	AIR
	76	APR 27/2005	ENGINE CONTROLS
	77	DEC 18/2007	ENGINE INDICATING
R	78	OCT 09/2008	EXHAUST
	79	APR 27/2005	OIL
	80	DEC 18/2007	STARTING
R	91	OCT 09/2008	CHARTS



Revision	Туре	Date	Effectivity Range	
0	Basic	Jul 15/1996	NA346, NB321-NB331	
1		Jan 13/1997		
2	Post Delivery	Sep 14/1998		
3	Post Delivery	Dec 21/1999		
4		Sep 11/2000		
5	Post Delivery	Feb 21/2002		
6	Post Delivery	May 23/2003		
7	Post Delivery	Oct 16/2003		
8	Post Delivery	Jun 23/2004		
9		Jan 21/2005		
10	Post Delivery	Apr 27/2005		
11	Post Delivery	Aug 01/2005		
12	Post Delivery	May 17/2006		
13	Post Delivery	Dec 18/2007		
14	Post Delivery	Oct 09/2008		



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Revi	sion	Fil	ed	Revi	ision	Fil	ed
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Temporary	Revision	Ins	erted	Ren	noved		Temporary	Revision	Ins	erted	Ren	noved
Number	Dated	Date	Initials	Date	Initials		Number	Dated	Date	Initials	Date	Initials
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RECORD OF TEMPORARY REVISION



			Started/		<u> </u>	
	Number	Incorporated	Completed	Effectivity	ATA	Subject
	21-0061 R01	Dec 21/1999	S	001-002 115	21-25-11 21-58-11	AIR CONDITIONING - COOLING - EQUIPMENT COOLING SYSTEM - EXHAUST LOW FLOW DETECTOR - REMOVAL
	21-0061 R01	Oct 16/2003	S	003-011	21-25-11 21-58-11	AIR CONDITIONING - COOLING - EQUIPMENT COOLING SYSTEM - EXHAUST LOW FLOW DETECTOR - REMOVAL
	22-0032	Feb 21/2002	S	001 009	22-11-12 22-11-13 22-11-22 22-11-23 22-11-32 22-11-33	FLIGHT CONTROL COMPUTER S241T100-109, OPTIONAL PIN WIRING REVISION
	22-0063	Dec 18/2007	S	010-011 115	22-11-12 22-11-13 22-11-22 22-11-23 22-11-32 22-11-33	AUTOFLIGHT - FLIGHT CONTROL COMPUTER - INTERLOCK 2 PROGRAM PIN WIRING CHANGE
	22-0071 R01	Dec 18/2007	S	115	22-32-14	AUTOFLIGHT - THRUST MANAGEMENT SYSTEM - ACTIVATE THE AUTOMATIC TRANSITION TO CLIMB AND SELECTION OF CLIMB DERATES ONLY
	22-0072 R01	Dec 18/2007	S	115	22-14-11 22-14-21	AUTOFLIGHT - AUTOLAND STATUS ANNUNCIATOR - REPLACEMENT
	22-0074 R01	Dec 18/2007	S	115	22-11-12 22-11-22 22-11-32	AUTOFLIGHT - AUTOPILOT - FLIGHT CONTROL COMPUTERS, FEATURES REVISION
	22A0049	May 23/2003	S	001-011 115		AUTOFLIGHT - AFCS MODE CONTROL PANEL - MODE CONTROL PANEL REPLACEMENT
R	23-0101	Dec 18/2007	S	115	23-51-11 23-51-21	COMMUNICATIONS - FLIGHT INTERPHONE SYSTEM - INSTALLATION OF PUSH-TO-TALK SWITCHES
	24-0069 R01	Dec 21/1999	S	001-005 115		ELECTRICAL POWER - DC GENERATION - STANDBY POWER - STATIC INVERTER INSPECTION/ REPLACEMENT



	Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
	24-0071	Dec 21/1999	S	001-009 115		ELECTRICAL POWER - DC GENERATION - STANDBY POWER - MAIN/AUXILIARY POWER UNIT BATTERY TIE REMOTE CONTROL CIRCUIT BREAKER CHANGE
Α	24-0077	Oct 09/2008	S	001-011 115	24-11-11 24-11-21	ELECTRICAL POWER - AC GENERATION - IDG LOW OIL LEVEL EICAS MESSAGE - WIRING INSTALLATION
A	24-0125	Oct 09/2008	S	115	24-31-11 24-31-41 24-33-11 24-33-12 24-34-11 24-51-31 24-54-71 49-41-11	STANDBY ELECTRICAL POWER - DE- PARALLELING OF APU AND AIRPLANE MAIN BATTERY
A	24-0126	Oct 09/2008	S	115	21-58-15 24-25-11 24-25-12 24-25-13 24-31-11 24-51-15 24-51-21 24-51-25 24-54-71 33-21-51 33-22-11 33-51-11	ELECTRICAL POWER - AC GENERATION - HYDRAULIC MOTOR GENERATION SYSTEM REMOVAL
	24A0080	Dec 21/1999	S	001-011 115	24-32-41 24-33-12 49-41-11	ELECTRICAL POWER - DC GENERATION - APU START AND TRU BATTERY GROUND STUD MODIFICATION
	27-0104	Dec 21/1999	S	001-004	24-54-11 24-54-73 27-21-12 27-41-11	FLIGHT CONTROLS - RUDDER - RUDDER RATIO CHANGER CIRCUIT BREAKER AND WIRING CHANGE
	27-0104	Jan 13/1997	S	115	24-54-11 24-54-73 27-21-12 27-41-11	FLIGHT CONTROLS - RUDDER - RUDDER RATIO CHANGER CIRCUIT BREAKER AND WIRING CHANGE



	Ī		0			
	Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
R	27-0110	Dec 21/1999	S	001-002 115		FLIGHT CONTROLS - HORIZONTAL STABILIZER TRIM CONTROL SYSTEM - REPLACEMENT OF THE ALTERNATE TRIM SWITCH
	27-0117 R02	Feb 21/2002	S	001-011 115	27-81-31	FLIGHT CONTROLS - LIFT AUGMENTATION - LEADING EDGE SLAT SYSTEM - REPLACEMENT OF THE SLAT LOSS INDICATION SYSTEM FOR THE INBOARD SLATS
	27-0123	Dec 21/1999	S	001-011 115	27-09-13	FLIGHT CONTROLS - CONTROL SYSTEM ELECTRONICS UNIT - WIRING CHANGE FOR THE HYDRAULIC PRESSURE SWITCH INPUTS TO THE RUDDER RATIO CHANGER MODULES
A	27A0105	Oct 09/2008	S	001-002 115		FLIGHT CONTROLS - SPOILERS AND DRAG DEVICES - POWER CONTROL UNIT REPLACEMENT



Number	Incorporated	Started/ Completed	Effectivity	АТА	Subject
27A0130 R01	May 23/2003	S	001-011	21-25-11 21-31-11 21-31-21 21-45-11 21-51-12 21-51-13 21-51-21 21-51-22 21-51-23 21-58-12 21-51-23 21-58-12 21-61-51 22-14-31 22-32-15 23-12-11 23-12-21 23-12-31 23-32-01 24-22-22 24-25-11 24-51-61 24-51-71 24-54-11 24-54-11 27-23-11 27-23-11 27-23-11 27-23-11 27-23-11 27-32-	FLIGHT CONTROL - SPOILERS AND DRAG DEVICES - AUTO- SPEEDBRAKE CONTROL SYSTEM - INSTALLATION OF THE MAIN LANDING GEAR TRUCK TILT SENSOR AND WIRING



Number	Incorporated	Started/ Completed	Effectivity	АТА	Subject
27A0130 R01 (cont.)				32-09-21 32-31-11 32-42-12 32-61-11 33-16-11 34-12-12 34-12-22 34-31-31 34-45-01 34-45-21 34-53-21 34-55-21 34-55-21 34-61-14 34-61-14 49-61-11 76-11-21 78-34-11 78-34-21 78-34-51 78-34-61 91-02-26	



		Started/			
Number	Incorporated	Completed	Effectivity	ATA	Subject
27A0130 R01	Oct 16/2003	S	115	21-25-11 21-31-11 21-31-21 21-45-11 21-51-11 21-51-13 21-51-21 21-51-22 21-51-23 21-58-11 21-58-12 21-61-51 22-14-31 22-32-15 23-12-11 23-12-31 23-12-31 23-2-12-31 24-22-22 24-25-11 24-51-61 24-51-71 24-51-61 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-71 24-51-11 30-31-11	FLIGHT CONTROL - SPOILERS AND DRAG DEVICES - AUTO- SPEEDBRAKE CONTROL SYSTEM - INSTALLATION OF THE MAIN LANDING GEAR TRUCK TILT SENSOR AND WIRING



			Started/			
	Number	Incorporated	Completed	Effectivity	ATA	Subject
	27A0130 R01 (cont.)				32-09-21 32-31-11 32-42-12 32-61-11 33-16-11 34-12-12 34-12-22 34-31-31 34-45-01 34-45-31 34-53-21 34-53-21 34-55-21 34-55-21 34-61-14 34-61-14 36-11-41 49-61-11 76-11-21 78-34-11 78-34-51 78-34-61 91-02-26	
	27A105	Jan 13/1997	S	115		FLIGHT CONTROLS - SPOILERS AND DRAG DEVICES POWER CONTROL UNIT REPLACEMENT
A	28-0095	Oct 09/2008	S	001-011 115	28-22-11	FUEL - ENGINE FUEL FEED SYSTEM - FUEL BOOST PUMP WIRE CHANGES
	28-37	Jan 13/1997	S	115		FUEL - INDICATING - FUEL QUANTITY INDICATING SYSTEM PROCESSOR UNIT REPLACEMENT
A	28A0081	Oct 09/2008	S	001-011 115	24-54-11 24-54-21 28-22-11 28-42-11 91-02-19 91-02-26	ENGINE FUEL FEED SYSTEM-CTR FUEL TANK FUEL BOOST PUMPS- AUTO SHUT OFF SYS INSTALL
A	28A0088	Oct 09/2008	S	001-011 115		FUEL - ENGINE FUEL FEED SYSTEM - MOTOR OPERATED SHUTOFF VALVE ACTUATOR INSPECTION AND REPLACEMENT
A	28A0105 R01	Oct 09/2008	S	001-011 115	28-22-11 91-02-19 91-02-26	ENGINE FUEL FEED SYSTEM - CTR FUEL TANK - POWER FAILED ON PROTECTION SYSTEM - RELAY INSTALL



	Number	Incorporated	Started/ Completed	Effectivity	АТА	Subject
	30-0016	Dec 21/1999	S	001-011 115	30-43-11	ICE AND RAIN PROTECTION - WINDOWS AND WINDSHIELDS - RAIN REPELLENT SYSTEM TEMPORARY DEACTIVATION, ACTIVATION OR PERMANENT DEACTIVATION
Α	31-0034 R02	Oct 09/2008	S	115	31-31-21	INDICATING/RECORDING - FLIGHT RECORDER EFIS SWITCHING RELAY - DIODE INSTALLATION TO PREVENT UNWANTED EICAS DISPLAY MESSAGE
	31-0055	Sep 14/1998	S	001-011 115	31-51-31 31-51-32	INDICATING/RECORDING - CENTRAL WARNING SYSTEM - WIRING CHANGES TO REDUCE SPEAKER HUM ON THE AURAL WARNING LOUDSPEAKER
	31-0059 R01	Dec 21/1999	S	001-011 115	31-41-14 31-41-24	INDICATING/RECORDING - CENTRAL COMPUTERS - EICAS COMPUTER REPLACEMENT
	31-0094	Feb 21/2002	S	010-011	27-11-11 27-21-11 27-48-11 27-62-11 31-31-01 31-31-02 31-31-41 31-31-42 31-31-43 31-31-51 31-31-61 31-31-65 34-22-14 34-22-24 34-22-27 34-25-11 34-61-15	FLIGHT DATA RECORDING SYSTEM - INSTALL NEW HONEYWELL DFDAU TO SATISFY JAA RETROFIT REQUIREMENTS AND INCREASE NUMBER OF RECORDED PARAMETERS
	31-0164 R01	Dec 18/2007	S	115	31-51-11 31-51-12 31-51-21 31-51-31 31-51-32 31-51-35 31-51-36	INDICATING/RECORDING SYSTEM - WARNING SYSTEM - CHANGES TO THE P51 WARNING ELECTRONICS UNIT



			Started/			
	31-0173	Dec 18/2007	S S	Effectivity 115	28-41-11	Subject INDICATING/RECORDING SYSTEMS - FUEL QUANTITY INDICATING SYSTEM (FQIS) - CHANGE THE FUEL, OIL QUANTITY, AIR CONDITIONING PACK FLOW AND THE AIRPLANE WEIGHT INDICATIONS FROM METRIC UNITS TO ENGLISH UNITS FOR FUEL QUANTITY INDICATION, CREW ALERTING & FMC
	34-0097	Jul 15/1996	S	009-011	34-22-16 34-22-26 34-22-36	NAVIGATION - COLLISION AVOIDANCE - TRAFFIC ALERT AND COLLISION AVOIDANCE SYSTEM INSTALLATION
	34-0132	Dec 21/1999	S	001 009 011 115	34-12-12 34-12-22	NAVIGATION - AIR DATA SYSTEM - AIR DATA COMPUTER REPLACEMENT AND WIRE CHANGES TO SUPPORT REDUCED VERTICAL SEPARATION MINIMUMS
	34-0132	Feb 21/2002	S	002	34-12-12 34-12-22	NAVIGATION - AIR DATA SYSTEM - AIR DATA COMPUTER REPLACEMENT AND WIRE CHANGES TO SUPPORT REDUCED VERTICAL SEPARATION MINIMUMS
	34-0132	Oct 16/2003	S	003-008 010	34-12-12 34-12-22	NAVIGATION - AIR DATA SYSTEM - AIR DATA COMPUTER REPLACEMENT AND WIRE CHANGES TO SUPPORT REDUCED VERTICAL SEPARATION MINIMUMS
A	34-0132 R03	Oct 09/2008	S	002-008 010	34-12-12	NAVIGATION - AIR DATA SYSTEM - AIR DATA COMPUTER REPLACEMENT AND WIRE CHANGES TO SUPPORT REDUCED VERTICAL SEPARATION MINIMUMS
	34-0154	Dec 21/1999	S	001-011 115		NAVIGATION - POSITION COMPUTING - FLIGHT MANAGEMENT COMPUTER REPLACEMENT



Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
34-0200	Feb 21/2002	S	002	24-51-72 24-54-11 31-31-41 31-31-42 31-31-43 31-41-22 31-51-21 31-51-41 31-51-42 32-61-12 33-13-21 34-12-12 34-12-12 34-12-13 34-22-14 34-22-16 34-22-17 34-22-18 34-22-19 34-22-19 34-22-28 34-22-28 34-22-29 34-22-28 34-22-29 34-22-36 34-22-37 34-22-38 34-22-39 34-25-11 34-25-12 34-25-13 34-31-1 34-43-12 34-43-15 34-43-15 34-45-01 34-46-12 34-46-13 34-46-14 34-58-21 34-61-25	NAVIGATION - INDEPENDENT POSITION DETERMINING - INSTALLATION OF ENHANCED GROUND PROXIMITY WARNING SYSTEM (EGPWS), PREDICTIVE WINDSHEAR WEATHER RADAR SYSTEM (GPS) AND MUTLI-MODE RECEIVERS WITH INSTRUMENT LANDING AND GLOBAL POSITIONING FUNCTIONS
34-0301	Jun 23/2004	S	003	34-61-15 34-61-25	FLIGHT MANAGEMENT COMPUTING SYSTEM - 100K/200K FMC TO PEGASUS FMC AND ACTIVATION OF REQUIRED NAVIGATION PERFORMANCE (RNP) - UPGRADE AND FANS FEATURE ACTIVATION



	Number	Incorporated	Started/ Completed	Effectivity	АТА	Subject
Α	34-0303	Oct 09/2008	S	001-011 115	34-21-11 34-21-21 34-21-31	NAVIGATION - INERTIAL REFERENCE SYSTEM - 2005 MAGNETIC VARIATION TABLE ACTIVATION
Α	34-0307 R01	Oct 09/2008	S	001-011 115	34-21-11 34-21-21 34-21-31	INERTIAL REFERENCE SYSTEM - 1995 MAGNETIC VARIATION TABLE ACTIVATION
	34-0379 R01	Dec 18/2007	S	115		NAVIGATION - FLIGHT MANAGEMENT COMPUTER SYSTEM - REPLACEMENT OF 100K/ 200K FLIGHT MANAGEMENT COMPUTER AND PRODUCT IMPROVEMENT PACKAGE WITH PEGASUS FLIGHT MANAGEMENT COMPUTER
R	34-0394	Dec 18/2007	S	115	34-22-16 34-22-26 34-22-36	NAVIGATION - WEATHER RADAR SYSTEM - WEATHER RADAR SYSTEM REPLACEMENT
R	34-0400	Dec 18/2007	S	115	22-13-11 22-13-21 22-13-31 23-51-13 24-51-72 24-54-73 31-31-22 34-21-11 34-21-21 34-21-31 34-22-19 34-22-29 34-22-39 34-24-11 34-31-31 34-31-31 34-46-12 34-58-11 34-58-21 34-61-15 34-61-22 34-61-25	MULTI-MODE RECEIVER (MMR) INSTALLATION
	34-0410	Dec 18/2007	S	115	31-51-33 34-12-12 34-12-22 34-16-11	DISPATCH WITH GEAR DOWN FOR REVENUE FLIGHT - RETROFIT KIT



	Number	Incorporated	Started/	Effectivity	АТА	Subject
R	Number 34-0414	Incorporated Dec 18/2007	S	Effectivity 115	22-12-11 22-12-21 22-32-11 22-32-11 24-54-11 24-54-11 24-54-21 24-54-73 33-13-51 33-13-51 33-13-51 33-16-51 34-21-11 34-21-21 34-22-16 34-22-17 34-22-18 34-22-18 34-22-17 34-22-18 34-22-37 34-22-36 34-22-37 34-22-38 34-61-11 34-61-12 34-61-13 34-61-14 34-61-15 34-61-18 34-61-21 34-61-22 34-61-23 34-61-25 34-61-25 34-61-26	NAVIGATION - FLIGHT MANAGEMENT COMPUTER SYSTEM - UPGRADE FROM CONTROL DISPLAY UNIT TO MULTI-PURPOSE CONTROL DISPLAY UNIT



		Started/			
Number	Incorporated	Completed	Effectivity	ATA	Subject
34A0222	May 23/2003	S	001-011 115	22-12-11 22-12-21 22-12-31 22-24-11 22-24-21 24-54-73 27-32-11 31-31-21 31-31-61 31-31-61 31-41-12 31-51-33 34-12-12 34-12-61 34-12-61 34-12-61 34-13-11 34-13-11 34-21-11 34-21-11 34-21-21 34-22-19 34-43-14 34-53-21 91-02-26 91-03-02	NAVIGATION - GENERAL - AIR DATA COMPUTING SYSTEM OVERSPEED AND STALL WARNING WIRE CHANGE
49-0019 R01	Dec 18/2007	S	001-011 115	49-61-11	AIRBORNE AUXILLARY POWER - APU IGNITION AND STARTING SYSTEM - APU CRANK CONTACTOR REPLACEMENT
75-0005	Dec 21/1999	S	001-009	75-31-11	AIR - COMPRESSOR BLEED CONTROL - ENGINE BLEED VALVE EICAS STATUS MESSAGE SIGNAL REMOVAL - RB211- 535 ENGINES
75-0005	Jan 13/1997	S	115	75-31-11	AIR - COMPRESSOR BLEED CONTROL - ENGINE BLEED VALVE EICAS STATUS MESSAGE SIGNAL REMOVAL - RB211- 535 ENGINES
76-0011 R01	Dec 21/1999	S	001-011 115	76-11-11 76-11-12	ENGINE CONTROLS - ENGINE FUEL VALVE INDICATION WIRING CHANGES - RB211-535 ENGINES



			Started/			
	Number	Incorporated	Completed	Effectivity	ATA	Subject
	76-0014	Feb 21/2002	S	001-011 115	76-11-11 76-11-12	ENGINE CONTROLS - GENERAL - ENGINE FUEL SHUTOFF VALVE - TRANSORB ADDITION
	78-0032 R03	Dec 21/1999	S	001-002 115	24-54-21 24-54-71 32-09-11 32-09-12 32-61-11 78-34-11 78-34-21 78-34-61 78-36-11 78-36-21	EXHAUST - GENERAL - THRUST REVERSER SYNC SHAFT LOCK INSTALLATION - RB211- 535E4/E4B ENGINES
	78-0039 R01	Feb 21/2002	S	001-011 115	32-09-11 32-09-12 78-34-11 78-34-21 78-36-11 78-36-21	EXHAUST - THRUST REVERSER - THRUST REVERSER POSITION INDICATING SYSTEM MODIFICATION
Α	SB 28A0085 R01	Oct 09/2008	S	001-011 115	28-41-41	HOT SHORT PROTECTOR INSTALL FOR FQIS FUEL DENSITOMETER
	SB 77-0009 R01	Dec 18/2007	S	001-011 115	77-31-11	ENGINE INDICATING - ANALYZERS - AIRBORNE BIVRATION MONITORING (AVM) SYSTEM - UNIVERSAL SIGNAL CONDITIONER INSTALLATION



Number	Incorporated	Started/ Completed	Effectivity	АТА	Subject
-No effect	-	-	-	-	



011 00 011	Till
CH-SC-SU	Title
24-51-11	115V AC BUS LEFT - SECTION 1
24-51-12	115V AC BUS LEFT - SECTION 2
24-51-13	115V AC BUS LEFT - SECTION 3
24-51-21	115V AC BUS RIGHT - SECTION 1
24-51-22	115V AC BUS RIGHT - SECTION 2
24-51-23	115V AC BUS RIGHT - SECTION 3
24-41-11	115V AC EXTERNAL POWER CONTROL AND DISTRIBUTION
24-51-61	115V AC GROUND HANDLING BUS
24-51-52	115V AC GROUND SERVICE BUS
24-51-14	115V AC UTILITY BUS - LEFT
24-51-24	115V AC UTILITY BUS - RIGHT
24-53-11	28V AC BUS - LEFT
24-53-21	28V AC BUS - RIGHT
24-53-51	28V AC GROUND SERVICE BUS
24-54-71	28V DC BATTERY BUS
24-54-11	28V DC BUS - LEFT
24-54-21	28V DC BUS - RIGHT
24-54-61	28V DC GROUND HANDLING BUS
24-54-72	28V DC HOT BATTERY BUS
91-01-42	757 ANTENNA CABLES - ATC, DME, MARKER BEACON, VOR, VHF COMM, HF COMM
91-01-41	757 ANTENNA CABLES - ILS, TCAS
91-01-43	757 ANTENNA CABLES - RADIO ALTIMETER, ADF
24-28-21	AC AMMETERS
24-28-11	AC METERS - VOLTAGE AND FREQUENCY
24-21-51	AC TIE BUS
34-12-12	ADC OUTPUTS AND DISCRETE INPUTS - LEFT
34-12-22	ADC OUTPUTS AND DISCRETE INPUTS - RIGHT
34-12-61	ADC SWITCHING - LEFT

ALPHABETICAL INDEX



CH-SC-SU	Title
34-12-62	ADC SWITCHING - RIGHT
34-57-11	ADF - LEFT
34-57-21	ADF - RIGHT
22-11-31	AFDS AC POWER - CHANNEL CENTER
22-11-11	AFDS AC POWER - CHANNEL LEFT
22-11-21	AFDS AC POWER - CHANNEL RIGHT
22-11-32	AFDS DC POWER - CHANNEL CENTER
22-11-12	AFDS DC POWER - CHANNEL LEFT
22-11-22	AFDS DC POWER - CHANNEL RIGHT
22-15-12	AFDS INTERCHANNEL DATA - ANALOG
22-15-11	AFDS INTERCHANNEL DATA - DIGITAL
22-12-31	AFDS PITCH SIGNALS - CHANNEL CENTER
22-12-11	AFDS PITCH SIGNALS - CHANNEL LEFT
22-12-21	AFDS PITCH SIGNALS - CHANNEL RIGHT
22-13-31	AFDS ROLL AND YAW SIGNALS - CHANNEL CENTER
22-13-11	AFDS ROLL AND YAW SIGNALS - CHANNEL LEFT
22-13-21	AFDS ROLL AND YAW SIGNALS - CHANNEL RIGHT
22-14-31	AFDS WARNING AND ANNUNCIATION - CHANNEL CENTER
22-14-11	AFDS WARNING AND ANNUNCIATION - CHANNEL LEFT
22-14-21	AFDS WARNING AND ANNUNCIATION - CHANNEL RIGHT
21-44-11	AFT CARGO HEATING
21-58-21	AFT EQUIPMENT COOLING - EXHAUST FANS
21-58-24	AFT EQUIPMENT COOLING - SUPPLY FANS
27-18-11	AILERON POSITION INDICATION
27-11-11	AILERON TRIM CONTROL
33-31-21	AIR CONDITIONING COMPARTMENT AND HYDRAULIC SERVICE CTR LIGHTS
21-51-12	AIR CONDITIONING LEFT PACK CONTROL - AUTO
21-51-13	AIR CONDITIONING LEFT PACK TEMPERATURE CONTROL - STANDBY

CH-SC-SU	Title
21-51-11	AIR CONDITIONING PACK FLOW CONTROL - LEFT
21-51-21	AIR CONDITIONING PACK FLOW CONTROL - RIGHT
21-51-14	AIR CONDITIONING PACK LOW LIMIT VALVE CONTROL - LEFT
21-51-24	AIR CONDITIONING PACK LOW LIMIT VALVE CONTROL - RIGHT
21-51-15	AIR CONDITIONING PACK PROTECTION - LEFT
21-51-25	AIR CONDITIONING PACK PROTECTION - RIGHT
21-52-11	AIR CONDITIONING PACK TEMPERATURE INDICATION
21-51-22	AIR CONDITIONING RIGHT PACK CONTROL - AUTO
21-51-23	AIR CONDITIONING RIGHT PACK TEMPERATURE CONTROL - STANDBY
34-12-11	AIR DATA - LEFT
34-12-21	AIR DATA - RIGHT
34-13-11	AIR DATA INSTRUMENTS - LEFT
34-13-21	AIR DATA INSTRUMENTS - RIGHT
36-22-21	AIR SUPPLY - PRECOOLER OUT TEMPERATURE INDICATION
36-11-41	AIR SUPPLY APU VALVE CONTROL
36-11-31	AIR SUPPLY ISOLATION VALVE CONTROL
36-11-11	AIR SUPPLY LEFT PRESSURE REGULATION AND SHUTOFF
36-22-11	AIR SUPPLY OVERHEAT INDICATION
36-11-22	AIR SUPPLY RIGHT ENGINE HIGH STAGE PILOT
36-11-21	AIR SUPPLY RIGHT PRESSURE REGULATION AND SHUTOFF
32-09-11	AIR/GROUND RELAYS - SYSTEM 1
32-09-12	AIR/GROUND RELAYS - SYSTEM 1
32-09-13	AIR/GROUND RELAYS - SYSTEM 1
32-09-21	AIR/GROUND RELAYS - SYSTEM 2
32-09-22	AIR/GROUND RELAYS - SYSTEM 2
32-09-23	AIR/GROUND RELAYS - SYSTEM 2
91-00-01	AIRPLANE STATIONS - BODY, VERTICAL STAB., HORIZ STAB.AND ELEVATOR
91-00-02	AIRPLANE STATIONS - WING, ENGINE AND NACELLE

ALPHABETICAL INDEX

CH-SC-SU	Title
27-51-11	ALTERNATE FLAP DRIVE CONTROL
32-35-11	ALTERNATE LANDING GEAR EXTENSION SYSTEM
27-81-11	ALTERNATE LEADING EDGE SLAT DRIVE
34-16-11	ALTITUDE ALERT
91-01-24	ANTENNA LOCATIONS
33-44-11	ANTI-COLLISION LIGHTS - BODY
33-44-21	ANTI-COLLISION LIGHTS - WINGS
32-42-11	ANTI-SKID SYSTEM
33-14-21	APPROACH CHART LIGHTS
33-31-31	APU AND TAILCONE COMPARTMENT LIGHTS
24-31-41	APU BATTERY
28-25-21	APU FUEL SHUTOFF VALVE
24-22-41	APU GENERATOR AND APB CONTROL
24-27-41	APU GENERATOR ANNUNCIATION
49-14-11	APU HARNESS ELECTRICAL ACCESSORIES
49-61-14	APU INLET DOOR
49-94-14	APU OIL QUANTITY INDICATION
26-15-12	APU REMOTE FIRE INDICATION AND EXTINGUISHING
49-61-11	APU START AND CONTROL
49-41-11	APU STARTER
31-51-33	AURAL WARNING - BELL/CHIME
31-51-35	AURAL WARNING - CLACKER/WAILER - LEFT
31-51-36	AURAL WARNING - CLACKER/WAILER - RIGHT
31-51-34	AURAL WARNING - DECISION HEIGHT
31-51-31	AURAL WARNING - SIREN/OWL - LEFT
31-51-32	AURAL WARNING - SIREN/OWL - RIGHT
32-42-12	AUTOBRAKE SYSTEM
27-62-11	AUTOMATIC SPEEDBRAKE SYSTEM

CH-SC-SU	Title
22-22-11	AUTOMATIC STABILIZER TRIM - LEFT
22-22-21	AUTOMATIC STABILIZER TRIM - RIGHT
27-81-21	AUTOSLAT CONTROL
24-31-11	BATTERY MAIN
36-21-11	BLEED AIR DUCT PRESSURE INDICATION
36-11-12	BLEED AIR HIGH STAGE PILOT - LEFT
32-41-11	BRAKE PRESSURE INDICATION
32-46-11	BRAKE TEMPERATURE MONITOR SYSTEM
23-42-11	CABIN INTERPHONE SYSTEM
23-42-12	CABIN INTERPHONE SYSTEM - ELECTRONIC CHIME
21-33-11	CABIN PRESSURE INDICATORS
21-31-11	CABIN PRESSURE SYSTEM - AUTO 1
21-31-21	CABIN PRESSURE SYSTEM - AUTO 2
21-31-31	CABIN PRESSURE SYSTEM - MANUAL
21-33-12	CABIN PRESSURE WARNING
21-65-11	CABIN ZONE TEMPERATURE INDICATION
33-25-31	CALL LIGHT - PASSENGER SERVICE UNITS
26-23-11	CARGO COMPARTMENT FIRE EXTINGUISHING
33-37-21	CARGO LIGHTS - AFT COMPARTMENT
33-37-11	CARGO LIGHTS - FORWARD COMPARTMENT
25-51-21	CARGO LOADER SYSTEM - AFT CARGO COMPARTMENT
25-51-11	CARGO LOADER SYSTEM - FORWARD CARGO COMPARTMENT
24-51-31	CENTER BUS - 115V AC AND 28V DC
91-02-00	CIRCUIT BREAKER LIST
27-09-12	CSEU RACKS - AIR/GROUND INPUT
27-09-13	CSEU RACKS - HYDRAULIC INPUT
27-09-14	CSEU RACKS - MAINTENANCE ANNUNCIATION
27-09-11	CSEU RACKS - POWER INPUT



CH-SC-SU	Title
28-25-11	DC FUEL PUMP CONTROL - APU
28-42-21	DC FUEL PUMP PRESSURE INDICATION
24-34-11	DC METERS
28-26-11	DEFUELING VALVES
31-31-11	DIGITAL FLIGHT RECORDER SYSTEM
31-31-13	DIGITAL FLIGHT RECORDER SYSTEM AND RELAY PANEL
31-31-12	DIGITAL FLIGHT RECORDER SYSTEM AND TEST PLUG
31-31-23	DIGITAL FLIGHT RECORDER SYSTEM PARAMETERS GROUP 1 AND EEC - L, EEC - R
31-31-22	DIGITAL FLIGHT RECORDER SYSTEM PARAMETERS GROUP 1 AND SHELVES
31-31-21	DIGITAL FLIGHT RECORDER SYSTEM PARAMETERS GROUP 1 AND SWITCHING RELAY
31-31-31	DIGITAL FLIGHT RECORDER SYSTEM PARAMETERS GROUP 2 AND LEFT WHEEL WELL
31-31-32	DIGITAL FLIGHT RECORDER SYSTEM PARAMETERS GROUP 2 AND SHELVES
91-04-00	DISCONNECT BRACKET LIST
91-04-01	DISCONNECT BRACKETS LOCATIONS
91-01-23	DISCONNECT PANEL LOCATIONS
34-55-11	DME - LEFT
34-55-21	DME - RIGHT
33-11-31	DOME LIGHTS - FLIGHT DECK
25-66-11	DOOR GIRT BAR ENGAGEMENT INDICATION
52-51-11	DOOR LOCK - FLIGHT COMPARTMENT
52-71-11	DOOR WARNING INDICATION - LEFT AND ACCESS
52-71-21	DOOR WARNING INDICATION - RIGHT AND CARGO
30-71-11	DRAIN MAST HEATERS
26-18-11	DUCT LEAK DETECTION - LEFT WING BODY
26-18-21	DUCT LEAK DETECTION - RIGHT WING BODY
91-04-07	E1 AND E2 DISCONNECT BRACKETS
91-03-01	E1 RACK - MAIN EQUIPMENT CENTER
91-03-02	E2 RACK - MAIN EQUIPMENT CENTER



CH-SC-SU	Title
91-04-08	E3 AND E4 DISCONNECT BRACKETS
91-03-03	E3 RACK - MAIN EQUIPMENT CENTER
91-03-04	E4 RACK - MAIN EQUIPMENT CENTER
91-03-05	E5 RACK - MAIN EQUIPMENT CENTER
91-04-09	E5, P36 AND P70 DISCONNECT BRACKETS
91-03-06	E6 RACK - AFT EQUIPMENT CENTER
91-04-13	E6, R AFT CAB.DISCONNECT
36-11-51	ECS BLEED CONFIGURATION SIGNAL PROCESSING
34-25-12	EFIS ATTITUDE COMPARISON INTERFACE - CROSS TIE BUSSES
34-25-13	EFIS ATTITUDE COMPARISON INTERFACE - RELAY OUTPUT TO EICAS
34-22-27	EFIS INSTRUMENT SWITCHING
34-22-37	EFIS INSTRUMENT SWITCHING - CENTER
34-22-17	EFIS INSTRUMENT SWITCHING INTERFACE - LEFT
34-22-36	EFIS POWER/LIGHTING/ PROGRAM PINS - CENTER
34-22-16	EFIS POWER/LIGHTING/ PROGRAM PINS - LEFT
34-22-26	EFIS POWER/LIGHTING/ PROGRAM PINS - RIGHT
34-22-38	EFIS SENSOR "A" INTERFACE - CENTER
34-22-18	EFIS SENSOR "A" INTERFACE - LEFT
34-22-28	EFIS SENSOR "A" INTERFACE - RIGHT
34-22-39	EFIS SENSOR "B" INTERFACE - CENTER
34-22-19	EFIS SENSOR "B" INTERFACE - LEFT
34-22-29	EFIS SENSOR "B" INTERFACE - RIGHT
34-22-35	EFIS SG/CP/CAPT DU INTERFACE CHANNEL - CENTER
34-22-14	EFIS SG/CP/EADI DU INTERFACE - LEFT
34-22-24	EFIS SG/CP/EADI DU INTERFACE - RIGHT
34-22-15	EFIS SG/CP/EHSI DU INTERFACE - CHANNEL LEFT
34-22-25	EFIS SG/CP/EHSI DU INTERFACE - RIGHT
34-22-34	EFIS SG/CP/F/O INTERFACE - CENTER



CH-SC-SU	Title
31-41-19	EICAS COMPUTER - DISPLAY SELECT PANEL
31-41-12	EICAS COMPUTER - LEFT DATA INPUTS
31-41-13	EICAS COMPUTER - LEFT DATA OUTPUT BUSSES
31-41-11	EICAS COMPUTER - LEFT DISPLAY UNIT OUTPUTS AND POWER
31-41-14	EICAS COMPUTER - LEFT DISPLAY UNIT OUTPUTS AND POWER - PROGRAM PINS
31-41-22	EICAS COMPUTER - RIGHT DATA INPUTS
31-41-23	EICAS COMPUTER - RIGHT DATA OUTPUT BUSSES
31-41-21	EICAS COMPUTER - RIGHT DISPLAY UNIT OUTPUTS AND POWER
31-41-24	EICAS COMPUTER - RIGHT DISPLAY UNIT OUTPUTS AND POWER - PROGRAM PINS
31-41-34	EICAS COMPUTER DISPLAY UNIT OUTPUTS AND POWER SUPPL PROGRAM PINS
33-31-41	ELECTRICAL EQUIPMENT CENTER LIGHTS
29-11-31	ELECTRICAL HYDRAULIC PUMP C1 AND C2 CONTROL AND INDICATION
29-11-12	ELECTRICAL HYDRAULIC PUMP CONTROL AND INDICATION - LEFT
29-11-22	ELECTRICAL HYDRAULIC PUMP CONTROL AND INDICATION - RIGHT
24-51-71	ELECTRICAL LOAD SHED - (ENGINE START) AND AUTO RESET (FLIGHT)
91-01-02	ELECTRICAL/ELECTRONIC MAJOR ROUTING PATHWAYS
91-01-03	ELECTRICAL/ELECTRONIC SPARE WIRES
31-25-11	ELECTRONIC CLOCKS
73-21-11	ELECTRONIC ENGINE CONTROL, LIMITER - LEFT ENGINE
73-21-21	ELECTRONIC ENGINE CONTROL, LIMITER - RIGHT ENGINE
73-21-12	ELECTRONIC ENGINE CONTROL, SUPERVISORY - LEFT ENGINE
73-21-22	ELECTRONIC ENGINE CONTROL, SUPERVISORY - RIGHT ENGINE
27-31-12	ELEVATOR ASYMMETRY LIMIT - LEFT
27-31-22	ELEVATOR ASYMMETRY LIMIT - RIGHT
27-31-11	ELEVATOR FEEL WARNING INDICATION
27-38-11	ELEVATOR POSITION INDICATION
91-01-27	EMERGENCY LIGHT LOCATIONS
33-51-15	EMERGENCY LIGHTS - AFT

CH-SC-SU	Title
33-51-22	EMERGENCY LIGHTS - AFT FLOOR PROXIMITY
33-51-11	EMERGENCY LIGHTS - CONTROL
33-51-12	EMERGENCY LIGHTS - FORWARD
33-51-21	EMERGENCY LIGHTS - FWD FLOOR PROXIMITY
33-51-14	EMERGENCY LIGHTS - MID AFT
33-51-13	EMERGENCY LIGHTS - MID FORWARD
75-31-11	ENGINE BLEED VALVES CONTROL
76-11-21	ENGINE CONTROL IDLE SELECT
80-11-11	ENGINE CRANKING - LEFT
80-11-21	ENGINE CRANKING - RIGHT
91-01-28	ENGINE EQUIPMENT LOCATIONS (RB 211535C-37)
76-11-11	ENGINE FUEL CONDITIONING CONTROL AND INDICATION - LEFT
76-11-12	ENGINE FUEL CONDITIONING CONTROL AND INDICATION - RIGHT
73-33-11	ENGINE FUEL FILTER BYPASS INDICATION
73-31-11	ENGINE FUEL FLOW INDICATION
73-34-11	ENGINE FUEL LOW PRESSURE WARNING
74-31-11	ENGINE IGNITION - LEFT ENGINE
74-31-21	ENGINE IGNITION - RIGHT ENGINE
49-71-11	ENGINE INDICATING - APU EXHAUST GAS TEMPERATURE
49-73-11	ENGINE INDICATING - APU TACHOMETER
49-72-11	ENGINE INDICATING - APU TIME TOTALIZER
77-21-11	ENGINE INDICATION - EGT
77-11-11	ENGINE INDICATION - EPR
77-12-11	ENGINE INDICATION - N1
77-12-21	ENGINE INDICATION - N2
77-12-31	ENGINE INDICATION - N3
77-31-11	ENGINE INDICATION VIBRATION MONITOR
79-33-11	ENGINE OIL - LOW PRESSURE WARNING

CH-SC-SU	Title
79-32-11	ENGINE OIL - PRESSURE INDICATION
79-31-11	ENGINE OIL - QUANTITY INDICATION
79-34-11	ENGINE OIL - TEMPERATURE INDICATION
79-35-11	ENGINE OIL FILTER - BYPASS WARNING
71-51-24	ENGINE WIRING COMPOSITE - RB211-535E4 /11,/14,/16 ENGINE TYPES
30-21-11	ENGINE/NOSE COWL THERMAL ANTI-ICE
34-46-14	ENHANCED GROUND PROXIMITY WARNING SIGNAL
33-22-14	ENTRY AND ATTENDANTS LIGHTS - AFT
33-22-11	ENTRY AND ATTENDANTS LIGHTS - FORWARD
33-22-12	ENTRY AND ATTENDANTS LIGHTS - MID FORWARD
21-58-15	EQUIPMENT COOLING - AUXILIARY FAN
21-25-11	EQUIPMENT COOLING - RECIRCULATION FANS
21-58-11	EQUIPMENT COOLING FAILURE INDICATION
21-58-12	EQUIPMENT COOLING SMOKE CLEARANCE
	EQUIPMENT LIST
91-01-26	EXTERIOR LIGHTS
24-41-12	EXTERNAL POWER ANNUNCIATION
38-32-21	FILL CONTROL - LAVATORY TANKS
26-15-11	FIRE DETECTION - APU
26-11-11	FIRE DETECTION - LEFT ENGINE
26-11-21	FIRE DETECTION - RIGHT ENGINE
26-22-21	FIRE EXTINGUISHING - APU
26-21-11	FIRE EXTINGUISHING - MAIN ENGINE
26-20-11	FIRE SWITCHES
27-51-51	FLAP LOAD RELIEF CONTROL
27-51-21	FLAP/SLAT ALTERNATE DRIVE ARM SYSTEM
27-51-31	FLAP/SLAT DEPRESSURIZATION MODULE CONTROL
27-51-61	FLAP/SLAT FAILURE DETECTION AND ANNUN- CIATION - ALTERNATE



CH-SC-SU	Title
27-51-41	FLAP/SLAT FAILURE DETECTION AND ANNUN- CIATION - PRIMARY
27-58-31	FLAP/SLAT MONITOR AND SYSTEM INTERFACE
27-58-11	FLAP/SLAT POSITION INDICATION
31-31-01	FLIGHT DATA RECORDER SYSTEM - INTERCONNECT GROUP 1
31-31-02	FLIGHT DATA RECORDER SYSTEM - INTERCONNECT GROUP 2
31-31-51	FLIGHT DATA RECORDER SYSTEM-ANALOG INTERFACE GROUP 1
31-31-52	FLIGHT DATA RECORDER SYSTEM-ANALOG INTERFACE GROUP 2
31-31-41	FLIGHT DATA RECORDER SYSTEM-DIGITAL INTERFACE GROUP 1
31-31-42	FLIGHT DATA RECORDER SYSTEM-DIGITAL INTERFACE GROUP 2
31-31-43	FLIGHT DATA RECORDER SYSTEM-DIGITAL INTERFACE GROUP 3
31-31-44	FLIGHT DATA RECORDER SYSTEM-DIGITAL INTERFACE GROUP 4
31-31-61	FLIGHT DATA RECORDER SYSTEM-DISCRETE INTERFACE GROUP 1
31-31-62	FLIGHT DATA RECORDER SYSTEM-DISCRETE INTERFACE GROUP 2
31-31-63	FLIGHT DATA RECORDER SYSTEM-DISCRETE INTERFACE GROUP 3
31-31-65	FLIGHT DATA RECORDER SYSTEM-DISCRETE INTERFACE GROUP 5
33-11-41	FLIGHT DECK LIGHT DIMMING OVERRIDE CONTROL
24-51-72	FLIGHT INSTRUMENT POWER TRANSFER
23-51-11	FLIGHT INTERPHONE - CAPTAIN
23-51-13	FLIGHT INTERPHONE - CAPTAIN, ADF AND ILS
23-51-12	FLIGHT INTERPHONE - CAPTAIN, DME AND VOR
23-51-14	FLIGHT INTERPHONE - CAPTAIN, HF - LEFT AND HF - RIGHT
23-51-21	FLIGHT INTERPHONE - FIRST OFFICER
23-51-41	FLIGHT INTERPHONE - OBSERVER
23-51-15	FLIGHT INTERPHONE - PA
23-51-51	FLIGHT INTERPHONE - SUPERNUMERATOR
33-14-31	FLIGHT KIT AND UTILITY LIGHTS
33-11-61	FLOODLIGHTS - AUXILIARY CIRCUIT BREAKER PANEL
33-11-11	FLOODLIGHTS - CAPTAIN, CENTER AND FIRST OFFICERS INSTRUMENT PANELS



CH-SC-SU	Title
33-11-21	FLOODLIGHTS - GLARESHIELD AND AISLE STAND
33-21-11	FLUORESCENT LIGHTING - CEILING CONTROL
33-21-14	FLUORESCENT LIGHTING - CEILING LEFT AFT
33-21-12	FLUORESCENT LIGHTING - CEILING LEFT FORWARD
33-21-13	FLUORESCENT LIGHTING - CEILING LEFT MID
33-21-23	FLUORESCENT LIGHTING - CEILING RIGHT AFT
33-21-21	FLUORESCENT LIGHTING - CEILING RIGHT FORWARD
33-21-22	FLUORESCENT LIGHTING - CEILING RIGHT MID
33-21-31	FLUORESCENT LIGHTING - SIDEWALL CONTROL
33-21-32	FLUORESCENT LIGHTING - SIDEWALL LEFT
33-21-41	FLUORESCENT LIGHTING - SIDEWALL RIGHT
34-61-18	FMC SWITCHING EFIS CONTROL PANEL
21-43-11	FORWARD CARGO HEATING
21-58-13	FORWARD EQUIPMENT COOLING - SUPPLY FANS
91-04-12	FRONT & REAR SPAR, SPOILER, A/C AND KEEL BEAM DISC.BRKTS
28-22-11	FUEL BOOST PUMPS - MAIN TANK
28-41-13	FUEL CONFIGURATION INDICATION
28-22-31	FUEL CROSSFEED VALVES
28-22-32	FUEL CROSSFEED VALVES
28-42-11	FUEL LOW PRESSURE WARNING - BOOST PUMPS
28-21-21	FUEL OVERFILL SHUTOFF CONTROL
28-41-51	FUEL QUANTITY IN-TANK WIRING HARNESSES
28-41-11	FUEL QUANTITY INDICATION
28-41-41	FUEL QUANTITY SENSORS - CENTER TANK
28-41-21	FUEL QUANTITY SENSORS - LEFT MAIN TANK
28-41-31	FUEL QUANTITY SENSORS - RIGHT MAIN TANK
28-21-11	FUEL QUANTITY SYSTEM POWER
28-22-21	FUEL SHUTOFF VALVES - MAIN ENGINES

CH-SC-SU	Title
28-41-14	FUEL TANK PROGRAMMING PIN AND DISCRETES
28-43-11	FUEL TEMPERATURE INDICATION
33-27-31	GALLEY LIGHTS - AFT (G4B)
33-27-11	GALLEY LIGHTS - FORWARD (G1A)
33-27-21	GALLEY LIGHTS - MID (G2A)
33-27-22	GALLEY LIGHTS - MID (G2D)
25-31-31	GALLEY POWER - AFT (G4A)
25-31-33	GALLEY POWER - AFT (G4B)
25-31-11	GALLEY POWER - FORWARD (G1A)
25-31-13	GALLEY POWER - FORWARD (G1B)
25-31-21	GALLEY POWER - MID (G2A)
25-31-23	GALLEY POWER - MID (G2B)
25-31-27	GALLEY POWER - MID (G2D)
24-23-11	GENERATOR DIFFERENTIAL FAULT SENSING
24-11-11	GENERATOR DRIVE - LEFT
24-11-21	GENERATOR DRIVE - RIGHT
34-58-11	GLOBAL POSITIONING SYSTEM LEFT
34-58-21	GLOBAL POSITIONING SYSTEM RIGHT
32-12-12	GROUND ACCESS ONLY, GEAR DOORS CLOSE SYSTEM
32-12-11	GROUND ACCESS ONLY, GEAR DOORS OPEN SYSTEM
23-43-11	GROUND CREW CALL
91-21-21	GROUND LIST
34-46-11	GROUND PROXIMITY WARNING SYSTEM - POWER AND WARNING
34-46-13	GROUND PROXIMITY WARNING SYSTEM - PROGRAM PINS
34-46-12	GROUND PROXIMITY WARNING SYSTEM - SIGNAL
24-51-51	GROUND SERVICE BUS - CONTROL
23-11-11	HF COMMUNICATIONS - LEFT
23-11-21	HF COMMUNICATIONS - RIGHT



CH-SC-SU	Title
91-21-51	HOOKUP LIST
29-32-31	HYDRAULIC FLUID OVERHEAT INDICATION SYSTEM - CENTER
29-32-11	HYDRAULIC FLUID OVERHEAT INDICATION SYSTEM - LEFT
29-32-21	HYDRAULIC FLUID OVERHEAT INDICATION SYSTEM - RIGHT
29-33-11	HYDRAULIC FLUID QUANTITY INDICATION SYSTEM
24-25-11	HYDRAULIC GENERATOR CONTROL
24-25-13	HYDRAULIC GENERATOR INDICATIONS
24-25-12	HYDRAULIC GENERATOR POWER AND REGULATION
29-22-11	HYDRAULIC POWER TRANSFER UNIT CONTROL AND INDICATION
29-31-11	HYDRAULIC QUANTITATIVE PRESSURE INDICATION SYSTEM
29-21-31	HYDRAULIC RAM AIR TURBINE CONTROL AND INDICATION
29-35-11	HYDRAULIC RESERVOIR PRESSURE INDICATION SYSTEM
29-32-41	HYDRAULIC RESERVOIR TEMPERATURE INDICATION SYSTEM
33-41-11	ILLUMINATION LIGHTS - WING
34-31-31	ILS - CENTER
34-31-11	ILS - LEFT
34-31-21	ILS - RIGHT
49-94-11	INDICATION APU OIL LEVEL
33-24-31	INFORMATION SIGNS - PASSENGER SERVICE UNITS
33-13-11	INSTRUMENT AND PANEL LIGHTS - CAPTAIN AND PILOTS CENTER
33-13-51	INSTRUMENT AND PANEL LIGHTS - CONTROL STAND - SECTION 1
33-13-52	INSTRUMENT AND PANEL LIGHTS - CONTROL STAND - SECTION 2
33-13-12	INSTRUMENT AND PANEL LIGHTS - FIRST OBSERVER AND PILOTS CENTER
33-13-21	INSTRUMENT AND PANEL LIGHTS - FIRST OFFICER
33-13-41	INSTRUMENT AND PANEL LIGHTS - GLARESHIELD
33-13-61	INSTRUMENT AND PANEL LIGHTS - OVERHEAD CIRCUIT BREAKER PANEL
33-13-31	INSTRUMENT AND PANEL LIGHTS - PILOTS OVERHEAD - LEFT AND CENTER
33-13-32	INSTRUMENT AND PANEL LIGHTS - PILOTS OVERHEAD - RIGHT



CH-SC-SU	Title
33-13-71	INSTRUMENT AND PANEL LIGHTS - RIGHT SIDE PANEL - SECTION 1
34-25-11	INSTRUMENT COMPARATOR UNIT
91-01-25	INTERPHONE JACK LOCATIONS - GENERAL
91-01-44	INTERPHONE JACKS NETWORK
34-21-31	IRS - CENTER POWER AND CONTROL
34-21-11	IRS - LEFT POWER AND CONTROL
34-21-21	IRS - RIGHT POWER AND CONTROL
33-00-01	LAMP USAGE CHART
31-51-42	LANDING CONFIGURATION WARNING
32-61-11	LANDING GEAR INDICATION
32-61-12	LANDING GEAR INDICATION
32-61-21	LANDING GEAR INDICATION - DOWN AND LOCKED LIGHTS
32-61-22	LANDING GEAR INDICATION - DOWN AND LOCKED SENSORS
32-61-13	LANDING GEAR INDICATION - SENSORS
32-31-11	LANDING GEAR LEVER LOCK
33-42-11	LANDING LIGHTS - LEFT
33-42-12	LANDING LIGHTS - RIGHT
33-26-11	LAVATORY LIGHTS
33-26-21	LAVATORY SIGNS - OCCUPIED
26-14-11	LAVATORY SMOKE DETECTORS
33-26-31	LAVATORY THRESHOLD LIGHTS
27-81-31	LEADING EDGE SLAT LOSS DETECTION
34-61-16	LEFT - FMS SWITCHING LEFT CDU MISC FUNCTIONS
24-51-15	LEFT AC TRANSFER BUS
24-22-12	LEFT BTB CONTROL
77-12-41	LEFT ENGINE SPEED SENSING CIRCUIT
34-61-14	LEFT FMC/AFDS/MCP/EFIS/ MISC - INPUTS
34-61-11	LEFT FMC/CDU INTERFACE



CH-SC-SU	Title
34-61-15	LEFT FMC/EFIS/DATA LOADER GENERAL - OUTPUTS
34-61-12	LEFT FMC/LEFT NAV/TMC - INPUTS
34-61-13	LEFT FMC/RIGHT NAV/AUTOTUNE DISCRETE - INPUTS
24-22-11	LEFT GENERATOR AND GCB CONTROL
24-27-11	LEFT GENERATOR ANNUNCIATION
26-12-11	LEFT STRUT OVERHEAT
22-24-11	MACH SPEED TRIM - LEFT
22-24-21	MACH SPEED TRIM - RIGHT
22-41-11	MAINTENANCE CONTROL AND DISPLAY MONITOR
22-41-12	MAINTENANCE CONTROL AND DISPLAY MONITOR - DIGITAL DATA BUS
22-41-13	MAINTENANCE CONTROL AND DISPLAY MONITOR - REMOTE PANEL
91-01-22	MAJOR EQUIPMENT CENTERS - SHELVES
27-41-31	MANUAL STABILIZER TRIM - ALTERNATE CONTROL
27-41-11	MANUAL STABILIZER TRIM - LEFT
27-41-21	MANUAL STABILIZER TRIM - RIGHT
33-14-11	MAP LIGHTS - FLIGHT DECK
34-32-11	MARKER BEACON
91-05-00	MASTER BUNDLE ELECTRICAL/ELECTRONIC CONFIGURATION
91-21-13	MASTER BUNDLE LIST
91-05-01	MASTER BUNDLE MATRIX (W2000-W2090)
91-05-02	MASTER BUNDLE MATRIX (W2134-W2265)
91-05-03	MASTER BUNDLE MATRIX (W2267-W2348)
91-05-04	MASTER BUNDLE MATRIX (W2350-W2451)
91-05-05	MASTER BUNDLE MATRIX (W2502-W2520)
91-05-06	MASTER BUNDLE MATRIX (W2602-W2638)
91-05-07	MASTER BUNDLE MATRIX (W2642-W2735)
91-05-08	MASTER BUNDLE MATRIX (W2800-W3012)
91-05-09	MASTER BUNDLE MATRIX (W3020-W3304)



CH-SC-SU	Title
91-05-10	MASTER BUNDLE MATRIX (W3305-W3416)
91-05-11	MASTER BUNDLE MATRIX (W3418-W3532)
91-05-12	MASTER BUNDLE MATRIX (W3533-W3650)
91-05-13	MASTER BUNDLE MATRIX (W3660-W4086)
91-05-14	MASTER BUNDLE MATRIX (W4104-W4406)
91-05-15	MASTER BUNDLE MATRIX (W4420-W4910)
91-05-16	MASTER BUNDLE MATRIX (W4912-W5022)
91-05-17	MASTER BUNDLE MATRIX (W5100-W5214)
91-05-18	MASTER BUNDLE MATRIX (W5500-W5616)
33-16-51	MASTER DIM AND TEST - BATTERY BUS CIRCUIT 1
33-16-52	MASTER DIM AND TEST - BATTERY BUS CIRCUIT 1 - OVERHEAD PANEL
33-16-53	MASTER DIM AND TEST - BATTERY BUS CIRCUIT 1 - RIGHT SIDE PANEL
33-16-61	MASTER DIM AND TEST - BATTERY BUS CIRCUIT 2
33-16-62	MASTER DIM AND TEST - BATTERY BUS CIRCUIT 2 - OVERHEAD PANEL
33-16-63	MASTER DIM AND TEST - BATTERY BUS CIRCUIT 2 - RIGHT SIDE PANEL
33-16-11	MASTER DIM AND TEST - LEFT BUS CIRCUIT 1
33-16-12	MASTER DIM AND TEST - LEFT BUS CIRCUIT 1 - OVERHEAD PANEL
33-16-21	MASTER DIM AND TEST - LEFT BUS CIRCUIT 2
33-16-22	MASTER DIM AND TEST - LEFT BUS CIRCUIT 2 - OVHD AND RIGHT SIDE PANEL
33-16-13	MASTER DIM AND TEST - LEFT BUS RIGHT SIDE PANEL
33-16-31	MASTER DIM AND TEST - RIGHT BUS CIRCUIT 1
33-16-32	MASTER DIM AND TEST - RIGHT BUS CIRCUIT 1 - OVERHEAD PANEL
33-16-33	MASTER DIM AND TEST - RIGHT BUS CIRCUIT 1 - RIGHT SIDE PANEL
33-16-41	MASTER DIM AND TEST - RIGHT BUS CIRCUIT 2
33-16-42	MASTER DIM AND TEST - RIGHT BUS CIRCUIT 2 - OVERHEAD PANEL
33-16-43	MASTER DIM AND TEST - RIGHT BUS CIRCUIT 2 - RIGHT SIDE PANEL
34-53-11	MODE S TRANSPONDER - LEFT
34-53-12	MODE S TRANSPONDER - LEFT ADDRESS AND AIRSPEED CODING



CH-SC-SU	Title
34-53-21	MODE S TRANSPONDER - RIGHT
34-53-22	MODE S TRANSPONDER - RIGHT ADDRESS AND AIRSPEED CODING
33-21-51	NIGHT LIGHTS - CEILING
52-34-11	NO.1 CARGO DOOR CONTROL
52-35-11	NO.2 CARGO DOOR CONTROL
26-11-12	OVERHEAT DETECTION - LEFT ENGINE (NACELLE)
26-17-11	OVERHEAT DETECTION - MAIN WHEEL WELL
26-11-22	OVERHEAT DETECTION - RIGHT ENGINE (NACELLE)
35-21-31	OXYGEN DEPLOYMENT ACTUATOR - PASSENGER SERVICE UNITS
35-21-13	OXYGEN MASK DEPLOYMENT - LEFT AFT
35-21-12	OXYGEN MASK DEPLOYMENT - LEFT FORWARD
35-21-22	OXYGEN MASK DEPLOYMENT - RIGHT AFT
35-21-21	OXYGEN MASK DEPLOYMENT - RIGHT FORWARD
35-21-11	OXYGEN MASK DOOR DEPLOYMENT
35-11-13	OXYGEN PRESSURE INDICATION
30-34-21	P1 ENGINE PROBE HEAT - LEFT
30-34-22	P1 ENGINE PROBE HEAT - RIGHT
91-04-02	P1, P3, P7, SPEEDBRAKE AND P10 DISCONNECT BRACKETS
91-02-01	P1-1, P1-3 AND EFIS PANELS CAPTAINS INSTRUMENT
91-02-10	P10 PANEL QUADRANT CONTROL STAND
91-02-11	P11-1 PANEL OVERHEAD CIRCUIT BREAKER
91-02-12	P11-2 PANEL OVERHEAD CIRCUIT BREAKER
91-02-13	P11-3 PANEL OVERHEAD CIRCUIT BREAKER
91-02-14	P11-4 PANEL OVERHEAD CIRCUIT BREAKER
91-02-15	P26 PANEL LIGHTING EQUIPMENT
91-02-02	P3-1, P3-3, EFIS AND EICAS PANELS F/O INSTRUMENT
91-02-17	P31 PANEL GENERATOR SHIELD - LEFT
91-04-05	P31, P32, P33, P34, TCAS AND NOSE WHEEL WELL DISCONNECT BRACKETS



CH-SC-SU	Title
91-02-18	P32 PANEL GENERATOR SHIELD - RIGHT
91-02-19	P33 PANEL MISCELLANEOUS RELAY
91-02-20	P34 PANEL APU/EXTERNAL POWER SHIELD
91-02-21	P34 PANEL APU/EXTERNAL POWER SHIELD
91-02-22	P34 PANEL APU/EXTERNAL POWER SHIELD
91-02-23	P36 PANEL MISCELLANEOUS ELECTRICAL EQUIPMENT
91-02-26	P37 PANEL MISCELLANEOUS ELECTRICAL EQUIPMENT - RIGHT
91-04-06	P37, P50, P51, P54 AND PSU DISCONNECT BRACKETS
91-02-03	P5 PANEL PILOTS OVERHEAD
91-04-03	P5, P6, P11, P26 AND P61 DISCONNECT BRACKETS
91-02-31	P50 PANEL ELECTRICAL SYSTEMS CARD FILE
91-02-32	P51 PANEL WARNING ELECTRONIC UNIT CARD FILE
91-02-33	P54 PANEL FIRE DETECTION CARD FILE
91-02-04	P6-1 AND P6-2 PANELS MAIN POWER DISTRIBUTION (CIRCUIT BREAKER)
91-02-05	P6-1 AND P6-2 PANELS MAIN POWER DISTRIBUTION (INTERNAL)
91-02-06	P6-3 AND P6-4 PANELS MAIN POWER DISTRIBUTION (CIRCUIT BREAKER)
91-02-07	P6-3 AND P6-4 PANELS MAIN POWER DISTRIBUTION (INTERNAL)
91-02-16	P61 PANEL RIGHT SIDE
91-02-27	P65 MISC ELEC EQUIP PNL
91-04-04	P65, SERVICE PANEL OVHD GALLEY, LAV "A", FWD LWR CLG, DISC.BRACKETS
91-02-08	P7 AND P55 PANELS GLARESHIELD
91-02-35	P70 PANEL MISCELLANEOUS ELECTRICAL EQUIPMENT
91-02-34	P70 PANEL MISCELLANEOUS ELECTRICAL EQUIPMENT (CIRCUIT BREAKER)
91-02-28	P71 HYD GEN CONT PNL ASSY
91-02-09	P8 AND P9 PANELS AFT AND FORWARD CONTROL STANDS
21-52-21	PACK DOOR AND VALVE POSITION INDICATION
21-52-31	PACK FLOW INDICATION
91-01-21	PANEL LOCATIONS



CH-SC-SU	Title
32-44-11	PARKING BRAKE SYSTEM
23-31-11	PASS. ADDRESS VOICE INPUT CIRCUITRY - PASSENGER ADDRESS SYSTEM
91-04-14	PASS.CAB.OVHD, STAB.TRIM, UPPER AREA INTRF GAL., APU FW DISC.BRKTS
23-31-21	PASSENGER ADDRESS AND MUTING SPEAKERS - LEFT
23-31-31	PASSENGER ADDRESS AND MUTING SPEAKERS - RIGHT
23-31-13	PASSENGER ADDRESS OUTPUT AND CONTROLS
23-31-42	PASSENGER ADDRESS SPEAKER LOCATION
23-31-22	PASSENGER ADDRESS SPEAKERS - LEFT OUTPUT NO.1
23-31-23	PASSENGER ADDRESS SPEAKERS - LEFT OUTPUT NO.2
23-31-32	PASSENGER ADDRESS SPEAKERS - RIGHT OUTPUT NO.1
23-31-33	PASSENGER ADDRESS SPEAKERS - RIGHT OUTPUT NO.2
23-31-34	PASSENGER ADDRESS SPEAKERS - RIGHT OUTPUT NO.3
23-31-41	PASSENGER ADDRESS SPEAKERS AND AUDIO ACCESSORY UNIT
23-31-19	PASSENGER ADRS BOARDING MUSIC - TAPE REPRODUCER AND ANNOUNCEMENT
33-25-14	PASSENGER AND LAVATORY CALL - LEFT AFT
33-25-11	PASSENGER AND LAVATORY CALL - LEFT FORWARD
33-25-13	PASSENGER AND LAVATORY CALL - LEFT MID AFT
33-25-12	PASSENGER AND LAVATORY CALL - LEFT MID FORWARD
33-25-24	PASSENGER AND LAVATORY CALL - RIGHT AFT
33-25-21	PASSENGER AND LAVATORY CALL - RIGHT FORWARD
33-25-23	PASSENGER AND LAVATORY CALL - RIGHT MID AFT
33-25-22	PASSENGER AND LAVATORY CALL - RIGHT MID FORWARD
23-34-12	PASSENGER ENTERTAINMENT - AUDIO DISTRIBUTION
23-34-13	PASSENGER ENTERTAINMENT - AUDIO DISTRIBUTION - LEFT
23-34-15	PASSENGER ENTERTAINMENT - POWER AND CONTROL SWITCH
23-34-16	PASSENGER ENTERTAINMENT - POWER, CONTROL AND TAPE REPRODUCER
33-23-14	PASSENGER READING LIGHTS - LEFT AFT
33-23-11	PASSENGER READING LIGHTS - LEFT FORWARD



CH-SC-SU	Title
33-23-13	PASSENGER READING LIGHTS - LEFT MID AFT
33-23-12	PASSENGER READING LIGHTS - LEFT MID FORWARD
33-23-24	PASSENGER READING LIGHTS - RIGHT AFT
33-23-21	PASSENGER READING LIGHTS - RIGHT FORWARD
33-23-23	PASSENGER READING LIGHTS - RIGHT MID AFT
33-23-22	PASSENGER READING LIGHTS - RIGHT MID FORWARD
33-24-11	PASSENGER SIGNS - CONTROL
33-24-14	PASSENGER SIGNS - PSU, LEFT AFT
33-24-12	PASSENGER SIGNS - PSU, LEFT FORWARD
33-24-13	PASSENGER SIGNS - PSU, LEFT MID
33-24-23	PASSENGER SIGNS - PSU, RIGHT AFT
33-24-21	PASSENGER SIGNS - PSU, RIGHT FORWARD
33-24-22	PASSENGER SIGNS - PSU, RIGHT MID
33-43-11	POSITION LIGHTS - LEFT WING
33-43-12	POSITION LIGHTS - RIGHT WING
38-15-11	POTABLE WATER PRESSURE SYSTEM
24-21-41	POWER AND REGULATION - APU GENERATOR
24-21-11	POWER AND REGULATION - LEFT GENERATOR
24-21-21	POWER AND REGULATION - RIGHT GENERATOR
29-11-11	PRIMARY HYDR PUMP FLUID SHUTOFF AND DEPRSRZN SYSTEM - LEFT
29-11-21	PRIMARY HYDR PUMP FLUID SHUTOFF AND DEPRSRZN SYSTEM - RIGHT
30-32-11	PROBE HEAT - ANGLE OF ATTACK
30-31-11	PROBE HEAT - LEFT PITOT STATIC
30-31-12	PROBE HEAT - RIGHT PITOT STATIC
30-33-11	PROBE HEAT - TOTAL AIR TEMPERATURE
22-11-33	PROGRAM PIN CONFIGURATION - CHANNEL CENTER
22-11-13	PROGRAM PIN CONFIGURATION - CHANNEL LEFT
22-11-23	PROGRAM PIN CONFIGURATION - CHANNEL RIGHT

CH-SC-SU	Title
32-01-11	PROXIMITY SWITCH ELECTRONICS UNIT INTERFACE
91-04-10	R AND L ENG STRUT FW, HORIZ FW ROLLS ROYCE DISCONNECT BRACKETS
34-33-31	RADIO ALTIMETER - CENTER
34-33-11	RADIO ALTIMETER - LEFT
34-33-21	RADIO ALTIMETER - RIGHT
34-22-81	RADIO DISTANCE MAGNETIC INDICATOR - LEFT
34-22-91	RADIO DISTANCE MAGNETIC INDICATOR - RIGHT
34-22-83	RADIO MAGNETIC INDICATOR AND ANNUNCIATION - LEFT
34-22-93	RADIO MAGNETIC INDICATOR AND ANNUNCIATION - RIGHT
33-23-31	READING LIGHTS - PASSENGER SERVICE UNITS
28-21-22	REFUELING CONTROL
28-21-23	REFUELING VALVES
29-21-32	RESERVE HYDRAULIC SOURCE SELECT AND INDICATION
34-61-26	RIGHT - FMS SWITCHING RIGHT CDU MISC FUNCTIONS
24-51-25	RIGHT AC TRANSFER BUS
24-22-22	RIGHT BTB CONTROL
77-12-42	RIGHT ENGINE SPEED SENSING CIRCUIT
34-61-24	RIGHT FMC/AFDS/MCP/EFIS/ MISC - INPUTS
34-61-21	RIGHT FMC/CDU INTERFACE
34-61-25	RIGHT FMC/EFIS/DATA LOADER GENERAL - OUTPUTS
34-61-23	RIGHT FMC/LEFT NAV/ AUTOTUNE DISCRETE - INPUTS
34-61-22	RIGHT FMC/RIGHT NAV/TMC - INPUTS
24-22-21	RIGHT GENERATOR AND GCB CONTROL
24-27-21	RIGHT GENERATOR ANNUNCIATION
26-12-21	RIGHT STRUT OVERHEAT
27-28-11	RUDDER POSITION INDICATION
27-21-12	RUDDER RATIO CHANGER - LEFT
27-21-22	RUDDER RATIO CHANGER - RIGHT

CH-SC-SU	Title
27-21-11	RUDDER TRIM CONTROL
27-28-13	RUDDER TRIM POSITION INDICATION
27-23-11	RUDDER/ELEVATOR HYDRAULIC SHUTOFF VALVES CONTROL AND INDICATION
27-23-21	RUDDER/ELEVATOR PCU MONITOR SYSTEM
33-42-21	RUNWAY TURNOFF LIGHTS
23-21-11	SELCAL
23-21-12	SELCAL CODING
23-41-12	SERVICE INTERPHONE JACKS
23-41-11	SERVICE INTERPHONE OUTPUT
25-29-11	SERVICE OUTLETS
26-16-21	SMOKE DETECTION BLOWERS - CARGO
26-16-11	SMOKE DETECTION CARGO COMPARTMENT
33-14-51	SPARE LAMP AND FUSE TEST SYSTEM
91-21-12	SPARE WIRE LIST
91-21-31	SPLICE LIST
27-61-12	SPOILER/SPEEDBRAKE CONTROL - FAULT ANNUNCIATION
27-61-13	SPOILER/SPEEDBRAKE CONTROL - SURFACE PANELS 1 AND 12
27-61-14	SPOILER/SPEEDBRAKE CONTROL - SURFACE PANELS 2 AND 11
27-61-15	SPOILER/SPEEDBRAKE CONTROL - SURFACE PANELS 3 AND 10
27-61-16	SPOILER/SPEEDBRAKE CONTROL - SURFACE PANELS 4 AND 9
27-61-17	SPOILER/SPEEDBRAKE CONTROL - SURFACE PANELS 5 AND 8
27-61-18	SPOILER/SPEEDBRAKE CONTROL - SURFACE PANELS 6 AND 7
33-45-11	STABILIZER (LOGO) FLOODLIGHTS
27-48-21	STABILIZER POSITION SENSING
27-48-11	STABILIZER TRIM POSITION INDICATOR
27-32-11	STALL WARNING - LEFT
27-32-12	STALL WARNING - LEFT - WEU BITE AND STATUS
27-32-21	STALL WARNING - RIGHT



CH-SC-SU	Title	
27-32-22	STALL WARNING - RIGHT - WEU BITE AND STATUS	
34-24-11	STANDBY ATTITUDE/ILS INDICATOR	
24-54-73	STANDBY BUS - 28V DC AND 115V AC	
24-33-11	STANDBY POWER	
24-33-12	STANDBY POWER - EXTENDED	
21-45-11	SUPPLEMENTARY HEATERS - CAPTAINS AND FIRST OFFICERS	
00-00-00	SYMBOLS	
24-32-41	T-R UNITS - APU	
24-32-11	T-R UNITS - MAIN	
31-51-41	TAKE-OFF CONFIGURATION WARNING	
33-42-31	TAXI LIGHTS	
34-45-02	TCAS - ANTENNA/INTERFACE	
34-45-01	TCAS - POWER AND DISPLAY	
21-61-31	TEMPERATURE CONTROL - AFT PASSENGER ZONE	
21-61-11	TEMPERATURE CONTROL - FLIGHT DECK ZONE	
21-61-21	TEMPERATURE CONTROL - FORWARD PASSENGER ZONE	
21-61-51	TEMPERATURE CONTROL - TRIM PRESSURE REGULATION	
91-21-41	TERMINAL STRIP LIST	
33-14-41	THRESHOLD LIGHT - FLIGHT DECK STEP	
22-31-11	THRUST MANAGEMENT SYSTEM - AC POWER	
22-32-13	THRUST MANAGEMENT SYSTEM - ANALOG SIGNALS	
22-31-12	THRUST MANAGEMENT SYSTEM - DC POWER	
22-32-11	THRUST MANAGEMENT SYSTEM - DIGITAL SIGNALS, INPUTS	
22-32-12	THRUST MANAGEMENT SYSTEM - DIGITAL SIGNALS, OUTPUTS	
22-33-11	THRUST MANAGEMENT SYSTEM - ENGINE SIGNALS	
22-32-15	THRUST MANAGEMENT SYSTEM - INTERLOCKS	
22-32-14	THRUST MANAGEMENT SYSTEM - PROGRAM PINS	
22-34-11	THRUST MANAGEMENT SYSTEM - WARNING AND ANNUNCIATION	

CH-SC-SU	Title
78-34-11	THRUST REVERSER CONTROL - LEFT ENGINE
78-34-21	THRUST REVERSER CONTROL - RIGHT ENGINE
78-34-51	THRUST REVERSER CONTROL - SYNC-LOCK - LEFT ENGINE
78-34-61	THRUST REVERSER CONTROL - SYNC-LOCK - RIGHT ENGINE
78-36-11	THRUST REVERSER INDICATION - LEFT ENGINE
78-36-21	THRUST REVERSER INDICATION - RIGHT ENGINE
24-23-12	TIE BUS DIFFERENTIAL FAULT SENSING
38-32-11	TOILET FLUSH MOTORS
26-13-11	TURBINE COOLING OVERHEAT DETECTION - LEFT ENGINE
26-13-21	TURBINE COOLING OVERHEAT DETECTION - RIGHT ENGINE
34-22-82	VERTICAL SPEED INDICATOR - LEFT
34-22-92	VERTICAL SPEED INDICATOR - RIGHT
23-12-31	VHF COMMUNICATIONS - CENTER
23-12-11	VHF COMMUNICATIONS - LEFT
23-12-21	VHF COMMUNICATIONS - RIGHT
23-32-01	VIDEO SYSTEM
23-32-02	VIDEO SYSTEM
23-32-03	VIDEO SYSTEM
23-71-11	VOICE RECORDER
34-51-11	VOR - LEFT
34-51-21	VOR - RIGHT
38-13-11	WATER HEATER - LAVATORY
38-14-11	WATER QUANTITY INDICATION
30-71-21	WATER SUPPLY LINE AND DRAIN LINE HEATERS
34-43-12	WEATHER RADAR CONTROL
34-43-11	WEATHER RADAR INTERFACE - LEFT
34-43-15	WEATHER RADAR INTERFACE LEFT CONTROL INPUT AND OUTPUT
31-51-43	WEU CONFIGURATION WARNING - SPEEDBRAKES

CH-SC-SU	Title
31-51-21	WEU MASTER WARNING
31-51-11	WEU POWER SUPPLY MDL A
31-51-12	WEU POWER SUPPLY MDL B
91-04-11	WG LE STRUT, VAPOR SEAL, ENG OUTBD CLOS RIB, ROLLS ROYCE RS DISC. BRKTS
33-31-11	WHEEL WELL LIGHTS
30-41-11	WINDOW HEAT - NO.1 LEFT AND NO.2 RIGHT
30-41-12	WINDOW HEAT - NO.1 RIGHT AND NO.2 LEFT
30-43-11	WINDSHIELD RAIN REPELLENT
30-42-11	WINDSHIELD WIPERS
30-11-11	WING THERMAL ANTI-ICE
91-21-11	WIRE LIST
91-01-01	WIRE ZONES
34-43-14	WXR - PREDICTIVE WINDSHEAR
22-21-11	YAW DAMPER - LEFT
22-21-21	YAW DAMPER - RIGHT
21-65-12	ZONE DUCT TEMPERATURE AND INDICATION
21-64-11	ZONE TRIM VALVE POSITION INDICATOR



1. APPLICABILITY

This Wiring Diagram Manual is applicable only to those Boeing airplanes listed on the Effective Aircraft page. The instructions and information contained herein apply solely to those airplanes and are not suitable for use with any other Boeing airplane(s).

2. GENERAL DESCRIPTION

The Boeing Wiring Diagram Manual (WDM) is a collection of diagrams, drawings, and Lists which define the wiring and hookup of associated equipment installed on the listed Boeing airplanes. These data are prepared essentially in accordance with the ATA Specification No. 2200, revision 2001.1.

This manual may also contain data and information provided by the customer. The Boeing Company assumes no responsibility for the accuracy and validity of data and information provided by a customer.

The WDM document number is unique to the customer whose name appears on the title page. Each chapter is preceded by its own Table of Contents (TOC), List of Effective Pages (LEP), and Alphabetical Index.

NOTE: System Schematics reside in a separate System Schematics Manual. Standard Wiring Practices—Chapter 20 reside in a separate Standard Wiring Practices manual (D6-54446).

All Wiring Diagrams are shown, unless otherwise specified, with the airplane on the ground, after normal flight, with the shutdown checklist complete (power off).

3. PROCESS CONTROLS

Control of the various manufacturing and installation processes used for wiring the airplane is covered in D6-36911 - Electrical Wiring Assembly and Installation Processes.

4. BOEING CHANGE DEFINITIONS

Changes used by Boeing to implement airplane changes that may affect this manual are listed below.

A. Customer Originated Changes (COC)

Customer Originated Changes are requests to incorporate airplane data, information, changes and modifications authorized by a customer into the WDM.

MOTE: Boeing will not undertake to test or evaluate, in any form, the validity or the technical accuracy of Customer Originated Changes. This will remain the sole responsibility of the customer submitting the Customer Originated Change request.

B. Service Bulletin (SB)

Service Bulletins provide information for accomplishing an engineering change on in-service airplanes. Service Bulletins are incorporated into this manual only upon customer request.

C. Service Letter (SL)

Service Letters notify customers of unique maintenance or operational items.

GENERAL INFORMATION

Page 1 Dec 18/2007



D. Master Change (MC)

An engineering change is classified as a Master Change if the change appreciably affects the terms and conditions of the purchase agreement and/or the customer detail specification. Consequently, a Master Change must be negotiated with the customer to revise the airplane delivery schedule, contract price, performance, weight and balance, or any other design affecting specification language.

E. Production Revision Record (PRR)

A Production Revision Record is an engineering change initiated by Boeing which is nonnegotiable and is used to make airplane changes such as design improvements.

F. Rapid Revision (RR)

A Rapid Revision is a minor change to an airplane, requested by a customer, which is too late in the production process to generate a Master Change and is not applicable for PRR action.

G. Modification Revision (MR)

A Modification Revision is used by Boeing to describe, negotiate, control and record changes to a customer's airplane configuration after an airplane has been certified and used in revenue service, then returned to Boeing jurisdiction for rework. Modification Revisions may also be used to modify an airplane directly off the assembly line.

Modification Revisions are negotiable changes and may include engineering, fabrication, assembly and/or installation revisions. They may be used by Boeing to incorporate customer furnished kits and parts, or to incorporate Boeing furnished parts which are not in kit form.

Modification Revisions may include SB's, PRR's (represented by a SB), MC's, RR's, etc. On a modification program, whenever a SB number is available, it will be used in preference to the associated MR number.

H. Electrical Liaison Change Commitment Record (ELCCR)

An Electrical Liaison Change Commitment Record is used to process miscellaneous changes on an expedited basis (out of sequence), and to incorporate these changes into the airplane in sequence in the shortest possible time.

I. Boeing Change Reason (BCR)

Boeing Change Reason provides tracking of a change made to the content of the manual that apply to all users of the manual.

5. DESCRIPTION OF SERVICE BULLETIN LIST AND CUSTOMER CHANGE LIST

A. Number Field

The service bulletin or customer change number with it's revision level

B. Incorporated

The date of the manual revision which incorporated the change.

GENERAL INFORMATION

C. Started/Completed

The status of the change. An 'S' is used in the Started/Completed column to indicate Start (Dual) configuration, a 'C' is used to indicate Complete (Final) configuration and a 'X' indicates canceled changes that have been removed from the manual.

D. Effectivity

The aircraft affected by the referenced change.

E. ATA

The list of drawings affected by the referenced change.

F. Subject

The title of the service bulletin or customer change.

6. BOEING COMMERCIAL PUBLICATION CHANGE REQUEST (PCR)

Communications concerning this manual should be directed to:

The Boeing Commercial Airplane Group Attention: Supervisor, Commercial Publications PO Box 3707 M/S 2H-61 Seattle, WA 98124-2207

Or access MyBoeingFleet website and complete the online PCR form.

To facilitate uniform handling and to provide direct routing of questions to the proper Boeing organization, use of the Publication Change Request is encouraged. Boeing makes this form available through the customer's publications organizations.

7. REFERENCE LINES

The Reference Lines provide an exact position within the airplane to aide in locating equipment.

A. Station Line (STA)

Edge view of vertical reference plane which divides the body, wing, nacelle etc., into sections.

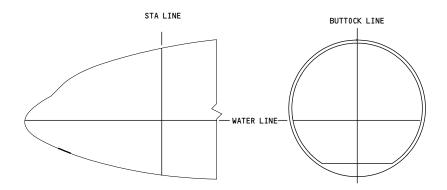
B. Waterline (WL)

Edge view of longitudinal horizontal reference plane.



C. Buttock Line (BL)

Edge view of longitudinal vertical reference plane.



8. WIRE SEPARATION

Airplane wiring installation complies with Federal Aviation Regulation (FAR) 25. Special emphasis is placed on wire separation of redundant systems for safety and other considerations. Wire separation is also utilized to minimize electromagnetic interference.

For further information see Codes section of the Introduction.

Dec 18/2007

D280N032



The following is a list of abbreviations and acronyms used in this manual. Where marked with an asterisk (*), see the GENERAL INFORMATION section, in the Wiring Diagram manual, for additional definition information.

A/C Air Conditioning

A/C Aircraft
A/R Altitude Rate

ACARS ARINC Communications Addressing and Reporting System

ACE Actuator Control Electronics

ACESS Advance Cabin Entertainment and Service System

ACM Air Cycle Machine

ACMP Alternating Current Motor Pump (See also EMP)

ACMS Airplane Conditioning Monitoring System

ACP Audio Control Panel

ADF Automatic Direction Finder
ADI Attitude Director Indicator

ADIRS Air Data Inertial Reference System
ADIRU Air Data Inertial Reference Unit

ADL Airborne Data Loader
ADM Air Data Module
ADP Air Driven Pump

ADRS Address

ADS Air Data Systems
ADU Air Drive Unit

AEM Audio Entertainment Multiplexer

AFDC Air Flight Data Control

AFDS Autopilot Flight Director System

AFL Air Flow

AIDS Airborne Integrated Data System

AIMS Airplane Information Management System

AMU Audio Management Unit

ANCMT Announcement
ANCPT Anticipate
ANCPTR Anticipator

ANS Ambient Noise Sensor

ANTI-COLL Anti-Collision
AOA Angle of Attack
AOC Air/Oil Cooler

APB Auxiliary Power Breaker
APID Airplane Identification
APU Auxiliary Power Unit



ARINC Aeronautical Radio Incorporated
ASA Autoland Status Annunciator

ASCPC Air Supply Cabin Pressure Controller
ASCTS Air Supply Control and Test System
ASCTU Air Supply Control and Test Unit

ASP Audio Select Panel

AVM Airborne Vibration Monitor

BDY BLK Burndy Block

BFE Buyer Furnished Equipment
BPCU Bus Power Control Unit
BSCU Brake System Control Unit

BST Boost

BTB Bus Tie Breaker

BTLCS Brake Torque Limiting Control System
BTMU Brake Temperature Monitor Unit

C Cold

CACTS Cabin Air Conditioning & Temperature Control System

CADS Central Air Data System

CALIB Calibrator CAP Capture

CAP Contact Authorized Proposal
CAPC Cabin Area Control Panel

CAPT Captain

CCA Central Control Actuator
CCL Cargo Control Logic
CCM Cargo Control Module
CCU Cargo Control Unit
CDU Control Display Unit

CFDS Centralized Fault Detection System
CFE Customer Furnished Equipment

CHKPT Checkpoint

CHSP Course Heading Select Panel
CIC Cabin Interphone Controller

CIWS Central Instrument Warning System
CMC Central Maintenance Computer

CMD Command

CMM Component Maintenance Manual
CMS Cabin Management System
COC* Customer Originated Change



COF MKR Coffee Maker
COLL Collision

COM/NAV Communication/Navigation

COR Corrector
CP Control Panel

CPCS Cabin Pressure Control System

CRKG Cranking

CSB Compressor Stability Bleed
CSMU Cabin System Management Unit

CT Control Transformer

CTC Cabin Temperature Controller
CTS Cabin Temperature Selector
CTS Conversational Terminal System

CVR Cockpit Voice Recorder **CWS** Control Wheel Steering DAA Digital/Analog Adapter DADC Digital Air Data Computer DAR Digital Aids Recorder **DED** Dead Ended Shield DEL Diagram Equipment List **DFCS** Digital Flight Control System

DFDAU Digital Flight Data Acquisition Unit

DFDR Digital Flight Data Recorder

DH Decision Height
DIU Digital Interface Unit
DMU Data Management Unit
DP Differential Protection
DPA Digital Pre-Assembly

DPCT Differential Protective Current Transformer

DPLY Deploy

DSP Display Select Panel E/E Electrical/Electronics

EADI Electronic Attitude Director Indicator
ECS Environmental Control System
EDIU Engine Data Interface Unit

EDP Engine Driven Pump

EEC Electronic Engine Control (Unit)

EFIS Electronic Flight Instrument System

EHSI Electronic Horizontal Situation Indicator



EICAS Engine Indicating and Crew Alerting System

EIU EFIS/EICAS Interface Unit

ELCCR* Electrical Liaison Change Commitment Record

ELCU Electrical Load Control Unit

ELMS Electrical Load Management System

EMC Electromagnetic Compatibility

EMP Electric Motor Pump (See also ACMP)

ENTMT Entertainment **ENWY** Entryway

EPR Engine Pressure Ratio

EPRL Engine Pressure Ratio Limit

ESCC Electrical Supply and Control Center

ESNTL Essential **ESS** Essential

ETC Electronic Temperature Control ETOPS Extended Twin (Engine) Operations

EXCHR Exchanger **EXTD** Extend

F/D Flight Director Flight Engineer F/E F/F Fuel Flow F/O First Officer

FADEC Full Authority Digital Engine Control

FAFC Full Authority Fuel Control **FAR** Federal Aviation Regulations

FBW Fly-by-Wire

FCC Flight Control Computer

FCU Flap Control Unit

FDAU Flight Data Acquisition Unit

FLMTR Flowmeter

FMC Flight Management Computer

FMCS Flight Management Computer System

FMU Fuel Metering Unit **FMV** Fuel Metering Valve FOC Fuel/Oil Cooler

FQIS Fuel Quantity Indication System **FQPU** Fuel Quantity Processor Unit **FSEU** Flap/Slat Electronics Unit **GCB** Generator Circuit Breaker



GCR Generator Control Relay
GCU Generator Control Unit

GPWS Ground Proximity Warning System

GS Glide Slope

GSB Ground Service Bus

GSPR Gasper H Hot

HLCU High Lift Control Unit
HMU Hydromechanical Unit

HND Hand

HPC High Pressure Compressor (N2 Rotor)

HPSOV High Pressure Shutoff Valve
HPT High Pressure Turbine
HYDIM Hydraulic Interface Module

HYQUIM Hydraulic Quantity Interface Module

HZ Hertz (Cycles Per Second)

IBIT Initiated Built In Test

IBVSU Instrument Bus Voltage Sense Unit

IDG Integrated Drive Generator
IDS Integrated Display System
ILES Inboard Leading Edge Station
INS Inertial Navigation System

INTC Interconnect

IOEU Inboard Overhead Electronics Unit

IPC Illustrated Parts Catalog
IPL Illustrated Parts List
IRS Inertial Reference System

JPR Jumper KHZ Kilohertz

KVA Kilovolt Ampere

LGHTNG Lightning
LMP Lamp
LO Lock Out

LP Lightning Protector
LPT Low Pressure Turbine
LRRA Low Range Radio Altimeter
LRU Line Replaceable Unit

LSDA Low Speed Digital To Analog

M Mach



M MUX Main Multiplexer

MAI Multiplexer Action Item

MAWEA Modularized Avionics and Warning Electronics Assembly

MC* Master Change

MCDP Maintenance Control and Display Panel MCDU Multipurpose Control and Display Unit

MCP Mode Control Panel

MGSCU Main Gear Steering Control Unit
MHRS Magnetic Heading Reference System

MHZ Megahertz

MIDU Multipurpose Interactive Display Unit

MKR BCN Marker Beacon

MLS Microwave Landing System

MNFST Manifest

MOSFET Metallic Oxide Semiconductor Field Effect Transistor

MR* Modification Revision

MTCHG Matching
MTG Muting
NBR Number

ND Navigation Display

NGT Night

OAP Output Audio Processor

OFCR Officer
OFL Outflow

I OMS Onboard Maintenance System

OOEU Outboard Overhead Electronics Unit
OPAS Overhead Panel ARINC 629 System
OPBC Overhead Panel Bus Controller

OVDR Overdoor
OVFL Overfill
OVHT Overheat
OVWG Overwing

PA Passenger Address

PA/Cl Passenger Address/Cabin Interphone

PCH Patch PCT Percent

PDU Power Drive Unit

PES Passenger Entertainment System

PFC Primary Flight Computer



PFD Primary Flight Display

PFIDS Passenger Flight Information Display System

PIS Passenger Information Sign

PKG Parking

PMA Permanent Magnet Alternator
PMG Permanent Magnet Generator
PMS Performance Management System

POR Point of Regulation

PRCLR Precooler
PROT Protection

PRR* Production Revision Record

PRSOV Pressure Regulating Shut-Off Valve

PSA Power Supply Assembly

PSEU Proximity Switch Electronics Unit

PSU Passenger Service Unit
PTT Press To Talk/Push To Talk

PVD Paravisual Display

PYL Pylon

QAM Quadrature Amplitude Modulation Unit

QAR Quick Access Recorder

QDT Quadrantal

RAT Ram Air Turbine

RDMI Radio Distance Magnetic Indicator

RDP Roller Drive Power
RDU Remote Display Unit

REP Repellent
RFLNG Refueling
RGLTN Regulation

RMCP Radio Management Control Panel

RR* Rapid Revision

RST Reset
RSV Reserve

RTC Rudder Trim Control

RVSG Reversing

RVT Rotational Variable Transformer

SAARU Standby Attitude/Air Data Reference Unit

SAT Static Air Temperature
SATCOM Satellite Communications

SB* Service Bulletin



SCF System Cardfile

SCM Spoiler Control Module

SCU Seat Control Unit

SDI Source Destination Identifier

SEB Seat Electronics Box

SEB/ST Seat Electronics Box With Self Test

SEI Standby Engine Instruments

SEU Seat Electronics Unit

SHVR Shaver

SL* Service Letter

SN Sign SO Shut-off

SO Standard Option

SPL Splice List

SRM Stabilizer Trim/Rudder Ratio Module

SUP-NUM Supernumerary SVU Seat Video Unit

SWDL Software Data Loader

SWL Sidewall

T/M Torque Motor
T/R Thrust Reverser
TAI Thermal Anti-Ice

TAT Total Air Temperature
TBV Turbine Bypass Valve
TCA Turbine Cooling Air

TCAS Traffic Collision Avoidance System

TCC Turbine Case Cooling
TDL Time Delay Logic

TDX Torque Differential Transmitter

TERM BLK Terminal Block

TGT Turbine Gas Temperature

THSHD, THRSH Threshold

TL Tilt

TLA Thrust Lever Angle

TMC Thrust Management Computer
TMS Thrust Management System

TO Turn-off

TPIS Tire Pressure Indication System
TPMU Tire Pressure Monitor Unit



TR Torque Receiver
TR Transformer Rectifier
TRA Thrust Resolver Angle
TRC Thermatic Rotor Control
TRU Transformer Rectifier Unit

TS Terminal Strip
TTG Time To Go
TURB Turbulence

TX Torque Transmitter

UNLK Unlock

VBV Variable Bypass Valve VCC Video Control Center

VES Video Entertainment System
VGH Velocity, Gravity, Height
VIGV Variable Inlet Guide Vane

VLV Valve

VSI Vertical Speed Indicator VSV Variable Stator Vane

VTY Vanity

W/A Wrap Around WAI Wing Anti-Ice

WBA Wire Bundle Assembly
WEU Warning Electronic Unit
WF Fuel Flow (Weight of Fuel)

WF or wf Weight of Fuel

WHCU Window Heat Control Unit WIU Wire Integration Unit

WXR Weather Radar
XFD Crossfeed
XNT Transient

XPC External Power Contactor

XPNDR Transponder

ZMU Zone Management Unit

Where marked with an asterisk (*), see the GENERAL INFORMATION section, in the Wiring Diagram manual, for additional definition information.



1. EQUIPMENT LIST—GENERAL

Electrical and electronic equipment are shown on wiring diagrams and schematics with alphanumeric designators. These designators are used as cross-reference symbols to the Equipment List where the Part Numbers and Part Descriptions are shown. Splices, grounds, terminals and wire bundles are not included in the Equipment List.

A. Equipment List Data Fields

(a) EQUIP Field (Equipment Number)

The Equipment Number field may contain up to ten (10) alphanumeric characters. The Equipment Number always begins with a letter and may contain a space followed by another character.

NOTE: Equipment numbers 9000 through 9999 and 90000 through 99999 are reserved for customer use. Using these customer assigned equipment numbers facilitates identification of customer installed equipment. Customers should use only customer assigned equipment numbers, not Boeing assigned equipment numbers reported in the Equipment List.

The following list shows the categories assigned to the Basic Equipment Designators.

EQUIPMENT DESIGNATOR	TYPE OF EQUIPMENT
A	Disconnect Brackets or Stanchions
В	Batteries, Small
	Bells
	De-Icing Boots
	Ice Detector
	Microphones
	NESA Windows
	Pitot Heater
	Speakers
С	Circuit Breakers
D	Equipment Mating Connectors
E	Equipment Racks
GD	Grounds (Airframe)
Н	Overflow Categories, Miscellaneous Bundle Termination Equipment)
J	Junction Boxes
K	Relay, Contactors
L	Lamp Assemblies
	Lights, Lamps



EQUIPMENT DESIGNATOR	TYPE OF EQUIPMENT
continued	
M	Accessory Units
	Amplifiers
	Antenna Tuners
	Antennas
	Batteries
	Control Units and Panels
	Galleys
	Generators
	Generator Components
	ILS Rack
	Modules (subassemblies of panels)
	Pumps
	Transmitters
N	Clocks
	Indicators
	Instruments
	Meters
Р	Panels
QD	Control Stand Quick Disconnect
R	Diodes Resistors
	Potentiometer
	Rectifiers
	Rheostats
S	Switches
SM	Splices (Within a bundle)
SP	Splices (Between bundles)
Т	T-R Units
	Transformers
ТВ	Terminal Blocks
	Terminal Strips
TS	Sensors, Transducers
V	Valves
W	Wire Bundles (See Wire List. Bundles are not listed in the Equipment List.)
X	Overflow Categories
Υ	Line Replaceable Units



 An Equipment Fixture Code is identified when the Equipment Number contains a space followed by another character. The Equipment Fixture Code is typically an alphabetic character.

TYPE OF FIXTURE	FIXTURE CODES
Equipment Mating Connector Fixture (Clamps, Adapters, Backshell, etc.)	T, U, V
Inline Connector Fixtures: •Receptacle Fixture •Plug Fixture	K, L, M Q, R, S
Receptacle Identification Fixture: •Decal •Adapter •Plug Button •Cover	W X Y Z
Coaxial Tee's, Connector Fixture	T, U, V
Components of Purchased Assemblies	A-Z
Lights:	T, U, V D C A, B
Customer Designated Fixtures	Y, Z

(b) OPT Field (Option)

The Option field indicates if optional part numbers may be used, and if so, the order of preference.

1) Boeing "as delivered" Options:

When the OPT field is empty or a zero appears, no options are permitted due to systems or physical restrictions. A "1" indicates that options are available.

OPT	Option Available
	No
0	No
1	First Option
2	Second Option
3	Third Option



2) Customer Requested Options:

Customer requested options are used for the incorporation of post-delivery changes, such as Boeing Service Bulletins and Customer Originated Changes. Option "9" is used for the incorporation of these changes. When more than one option is available, the four allowed options are:

OPT	Option Available	
9	First Option	
8	Second Option	
7	Third Option	
6	Fourth Option	

(c) PART NUMBER Field

The Part Number field provides the part number for the equipment item. It will be a unique number defined by either vendor, Military or Boeing drawing and/or specification.

(d) PART DESCRIPTION Field

The Part Description is derived from the actual use of the item or the title of its associated drawing or specification.

(e) USED ON DWG Field (Used On Drawing)

The Drawing that contains installation details for that part.

(f) VENDOR Field (Vendor Code)

For Vendor Code translation, refer to:

H4-1: Federal Supply Code for Manufacturers-Name to Code H4-2: Federal Supply Code for Manufacturers-Code to Name

Published by:

Defense Supply Agency Defense Logistics Services Center Federal Center Building Battle Creek, Michigan 49016

SPECIAL VENDOR CODE ASSIGNMENT

See the Vendor Codes section.

(g) QTY Field (Quantity)

The Quantity shown reflects the number of times each item is used on the airplane.



(h) DIAGRAM Field

The Diagram listed is the diagram or schematic on which the item appears. However, one item may be shown on more than one diagram or schematic.

(i) STATION/WL/BL Field (Location)

Location information is shown directly below the Vendor Code. If the equipment is located on or near a panel, equipment rack, disconnect panel or terminal block, that item is referenced for locations. All other equipment locations are shown by station line, water line, and buttock line. See the Manual Usage section for a more detailed explanation.

(j) EFFECTIVITY Field

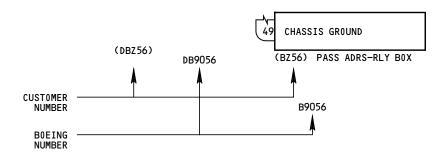
This is a Boeing or a Customer assigned number to keep track of airplanes. An effectivity is presented as a single airplane or in a range, e.g., PP001-PP099 or 001-999 or AAA-ZZZ, covering several airplanes. The word "ALL" means that the item is applicable for all aircraft listed in the Effective Aircraft section.

2. CUSTOMER ASSIGNED INCOMPATIBLE EQUIPMENT, WIRE AND BUNDLE NUMBERS

Customer assigned equipment item, wire and/or bundle numbers that are not compatible with the Boeing computer program will have an additional number assigned. This Boeing assigned number, will appear in the computer generated listings, i.e., Equipment, Wire, Ground, Splice, Terminal Strip and Hookup Lists.

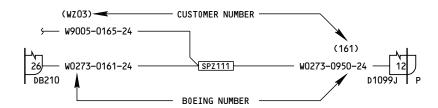
NOTE: On the wiring diagram, the customer assigned equipment item, wire and/or bundle numbers will be placed in parenthesis next to the Boeing assigned numbers.

CUSTOMER ASSIGNED EQUIPMENT ITEM NUMBER





CUSTOMER ASSIGNED WIRE AND BUNDLE NUMBER



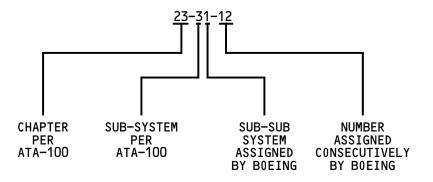


1. BASIC INFORMATION ABOUT WIRING DIAGRAMS

A. Wiring Diagram And Page Numbering

(a) Wiring Diagram Numbering

The Diagram numbering is in accordance with ATA Specification 2200 Revision 2001.1



The first three digits will be identical on diagrams and schematics.

NOTE: When a diagram is referenced to another, only the diagram number is used. Therefore, where there is more than one page of the same diagram, it is necessary to refer to the effectivity block to make certain the diagram applies to the airplane of interest.

(b) Diagram Page Numbering

Diagram page numbering begins at 1 then 2, 3 etc. Each page reflects different delivered configurations between aircraft. See the following example.

DIAGRAM	PAGE	EFFECTIVITY
21-31-12	1	001-004
21-31-12	2	005-999

The Page numbers (Page 101, 102, etc.) are used to represent different delivered configurations of a given schematic which may be applicable to different airplanes within the customer's fleet. When a schematic page number has a suffix (e.g., 101A, 102A for Customer Originated Changes or 101.1, 102.1, etc. for Service Bulletins) it reflects a post-delivery configuration for the same airplane(s). Both the configuration delivered by Boeing and the configuration after modification remain in the manual until the airline notifies Boeing that the post-delivery change has been incorporated in the customer's entire fleet of that model, and requests Boeing to delete the obsolete configurations.



(c) Diagram Sheet Numbering

If Diagrams of the same circuit can not be shown on one sheet, they are shown on additional sheets having the same title, diagram number and page number.

When reference is made to a multisheet diagram, the sheets will be included in the reference.

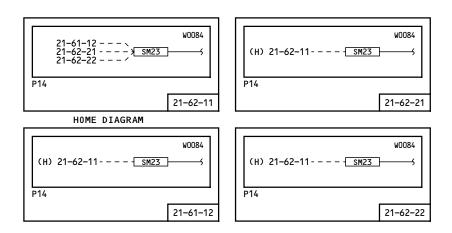
EXAMPLE:

34-11-11	34-11-11
SH 1	SH 3
34-11-11	34-11-11
SH 2	SH 4

B. Home Diagram

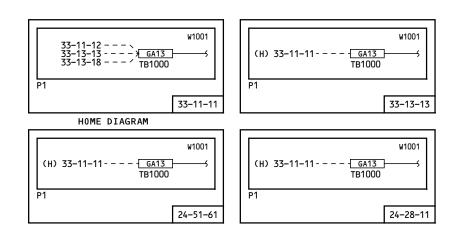
Any wire termination which is used for three or more wires shown on three or more wiring diagrams shall be assigned a "Home" diagram. The "Home" diagram shall indicate all connections on the termination and reference the diagram that shows the connection.

(a) Splices

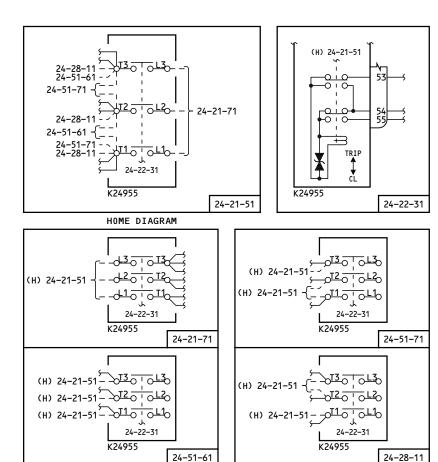




(b) Terminal Blocks

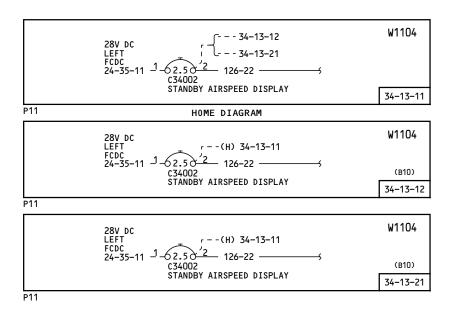


(c) Relays (The Mechanical Linkage is referenced to the diagram containing the control circuit)





(d) Circuit Breaker

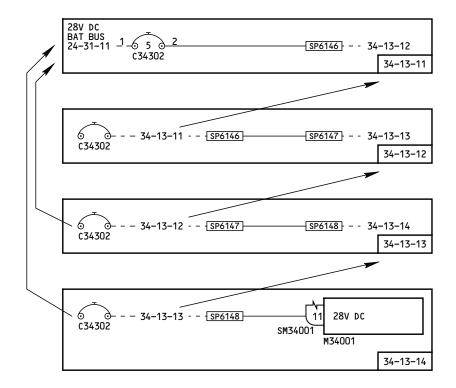




C. Power and Ground Indication

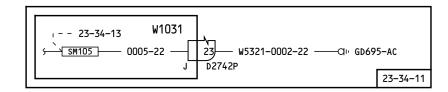
(a) Power Source Indication

The circuit breaker symbol, equipment designator, nomenclature and grid location, and diagram number of power source, are shown for circuits which are routed through connectors, splices and terminals.



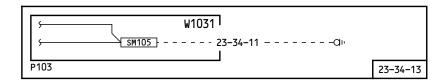
(b) Ground Indication

The diagram detailing the complete ground circuit may contain references to other diagrams.



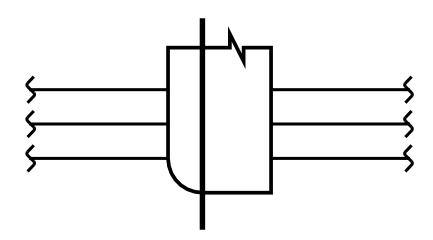


The referenced diagrams contain the ground symbol and a reference to the diagram which depicts the complete ground circuit.



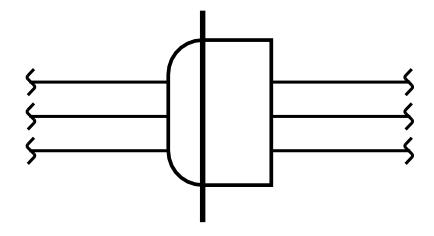
D. Connector Symbols

Connector symbols are shown broken when the same connector is shown elsewhere on that or another diagram.





Connector symbols are shown complete when all used contacts are shown on one diagram.

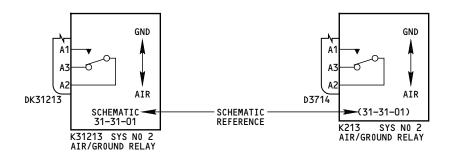


E. Galleys and Lavatories

Wiring Diagrams will show Boeing wiring to the interface with the galley and lavatory units.

F. Schematic References Shown on Wiring Diagrams

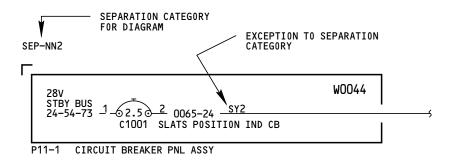
An ATA number on Wiring Diagrams shown with the word SCHEMATIC, SCHEM, or in parentheses within modules, is a Schematic reference. See the following example.





G. Wire Separation Identification

- (a) The wire separation category assigned to the majority of wires on a diagram is shown in the upper left hand corner of each diagram, e.g., SEP-NN2. Wires on a diagram not part of that category are individually labeled.
- (b) The actual code definitions may be found in the Codes section of the Introduction.
- (c) These wire separation codes are intended for production use. Chapter 91-21-13 Master Bundle List includes the wire separation codes. The lack of a wire separation code on a diagram does not indicate there is no wire separation required. Consult the Master Bundle List for the wire separation assigned to the bundle.





1. CHARTS

The Chapter 91 Charts contain airplane station arrangements, wire zones, major wire bundle pathways, panel and equipment shelf locations, circuit breaker panel charts, disconnect bracket charts and Master Bundle information.

2. LISTS

The Chapter 91 Lists are numbered as follows:

91-02-00	 Circuit Breaker List
91-04-00	 Bracket List
91-21-11	 Wire List
91-21-12	 Spare Wire List
91-21-13	 Master Bundle List
91-21-21	 Ground List
91-21-31	 Splice List
91-21-41	 Terminal Strip List
91-21-51	 Hookup List

The following paragraphs in this section define the contents of Chapter 91 Lists. The Wire List is the Primary source for Spare Wire through Hookup Lists.

A. Circuit Breaker List—Chapter 91-02-00

- (a) The Circuit Breaker List reflects all the circuit breakers within an airplane and is derived from data contained in the Equipment List. It lists, in alphanumeric order, each Panel/Access Door, the Description and the Diagram of that panel.
- (b) For each Panel/Access Door the grid location (Grid No), the circuit breaker number (Ckt Bkr), circuit breaker label (Description), Diagram and Effectivity are listed.
- (c) Unused grid locations are not listed.
- (d) The Circuit Breaker List is used as supplemental data for all Chapter 91-02-XX Panel Charts containing circuit breakers.

B. Bracket List—Chapter 91-04-00

- (a) The Bracket List reflects all the disconnect brackets within an airplane and is derived from data contained in the Equipment List. It lists, in alphanumeric order, each disconnect bracket (BRACKET NO.), title (DESCRIPTION), EFFECTIVITY, and where the information is available: maximum number of positions (MAX POS), and location (STATION/WL/BL).
- (b) Each POSITION within a bracket, that is being used, is listed, followed by the mounted receptacle number (RECEPTACLE) and its wire bundle number (BUNDLE), the mating plug (PLUG) and wire bundle number (BUNDLE) and the EFFECTIVITY.

CHARTS AND LISTS

Page 1 Dec 18/2007

- (c) Positions not containing connectors are not listed but can be determined by viewing the graphical representation of the bracket in the 91-04-XX Disconnect Bracket Charts. In general, brackets with numerically numbered positions (001, 002, 003...) are consecutively numbered and any omitted number is likely present on the bracket but unused. On brackets with alphanumeric grid positions (A01, A02, B04, C07...) are probably approximately rectangular with the alpha part representing one axis of the grid and the numeric part representing the other axis of the grid. In those cases, the positions are generally going to be numbered in a consistent rectangular grid method (A01, A02, ... A05, B01, B02, ... B05, ... F01, F02, ... F05). Any positions in this pattern that are not listed as used are likely on the bracket but unused. Some bracket positions are also numbered with strictly alphabetical values (A, B, C, F, G...). In all of these cases, it is necessary to reference the graphical representation of the bracket to be sure of the existence of a particular unused bracket position.
- (d) The Bracket List is used as supplemental data for all 91-04-XX Disconnect Bracket Charts.

C. Wire List—Chapter 91-21-11

The Wire List reflects all the wire bundles within an airplane. It lists, in alphanumeric order, each Bundle Number (Bundle No.), Part Number, Description and the wires within each bundle.

(a) BUNDLE NO. Field (Wire Bundle Number)

Each wire bundle is given an item number beginning with "W". This item number is the first part of the wire number and is derived from the wire bundle drawing number. The four digits XXXX of the item number is the wire bundle number. The first part of the wire number thus becomes WXXXX.

Wire bundle numbers W9001-W9999 are reserved for customer use.

(b) PART NUMBER and DESCRIPTION Fields

The wire bundle part number is derived from the wire bundle drawing number. A description of the bundle follows the part number.

(c) WIRE No./GA/CO Field (Wire Number/Gauge/Color)

A typical wire number consists of the wire identifier and gauge. A color designator may appear at the end of the wire identifier or gauge number. See Paragraph 3, for wire number details.

The wire numbers are physically printed or stamped on each wire and are also used on the Wiring Diagrams to identify the wires.

Wire numbers 901-999 and 9001-9999 are reserved for customer use.

(d) TY Field (Wire Type)

The Wire Type code is a two-character identifier for the type of wire used. These codes are described in 20-00-13 of the Standard Wiring Practices (Chapter 20).



(e) Fam Field (Wire Family)

Multi-conductor wires such as twisted or shielded wires are grouped as a family of wires. Each family of wires is given a code which is unique per bundle. Therefore, the family code is used to denote that some wires are physically related to each other either by being twisted together or by sharing the same shield or jacket. Family codes are assigned a code between A-ZZ.

(f) FT-IN Field (Wire Length)

1) The length of the wire is shown in this field.

Critical lengths and tolerances will be shown on diagrams for applicable wires or bundles.

Measure the wire length from the connector face or terminal ring centerline to the connector face or terminal ring centerline at the opposite wire end.

2) A wire without a length will appear if it is part of a family of wires. The length for this particular wire is usually specified on the lowest wire number in that family group.

(g) DIAGRAM Field (Diagram Reference)

1) The numbers in this field reflect the diagram on which the wire appears. The diagram references apply to any functional, ARINC Spare, or System Spare wire. These wires will not be shown on the wire diagram and are not spare wires.

MOTE: The diagram reference "99-99-99" is used for the wire bundle manufacturing process (e.g., Stub wires or wires to maintain pin circuit separation).

- 2) Spare wires may be found in the Chapter 91 Wire List, Ground List, Terminal Strip List, Splice List and Hookup List with "SPARE" in the DIAGRAM field. These spare wires may be used by the customer for Kit and Service Bulletin incorporations by assigning diagram numbers to those particular wires used.
- 3) Boeing identifies wires as spare that are no longer functional but may remain in a bundle. These wires will be identified in the Chapter 91 Lists as "SPARE*", and the wires will be deleted from the diagrams. These wires are available for customer use on an individual airplane basis. Boeing may choose to delete or re-use these wires.

(h) EQUIP From and To Field (Equipment Number)

There are two EQUIP fields, one for each end of the wire. Any item designator found in this field, other than splices and grounds, will be defined in the Equipment List.

(i) TERM From and To Field (Terminal Number)

There are two TERM fields, one for each end of the wire. The contact identifiers in these fields are typically alphanumeric characters.

- 1) An equal sign (=) appearing ahead of the identifier means no identification is to be found on the part and the identifiers used are for hookup and test purposes.
- "REF" is used to indicate a termination in the vicinity of, but not in, the splice or terminal indicated in the EQUIP field. It may be used with an SP number instead of SPREF in the EQUIP field.



- 3) "DED" indicates the shield is dead ended and not terminated by pigtail or jumper wire.
- 4) "CAP" indicates a wire terminated by an end cap near the equipment shown.
- 5) Ground terminations are shown as A., AC Ground; D., DC Ground; S., Static or Shield or Special Ground.
- 6) Color codes represent the pin identification codes of colored pigtails from vendor furnished equipment. See Paragraph 3.B(4) for TERM color codes. The wire number associated with the pigtails are in the form A-A thru Z-9.
- 7) Pin and socket lower case letter identifiers are indicated by an upper case letter followed by a minus sign (-), (e.g. F- = f).
- 8) The following are special shield terminations:
 - PER-S280W605 Backshell Zero Inch Termination
 - PERB-S280W603 Backshell Zero Inch Termination
 - PERG-S280W601 Multi Insert Ground Block 3 Inch Maximum
 - = CC-Strain Relief 2 Inch Maximum
 - G-Terminal Track Ground 2 Inch Maximum

(j) Type Field From and To (Terminal Type)

The Terminal Type codes appearing in this field are defined in the CODES section identifying:

- 1) Codes for Lug (Stud) size (diagram symbol depicted).
- 2) Codes for Special Terminals.
- 3) Codes for Special Contacts.

(k) SPLICE Field From and To (Splice)

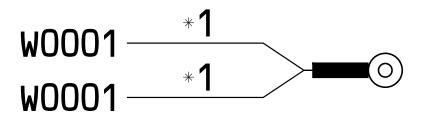
This field shows conditions under which the connection is made:

CHARTS AND LISTS

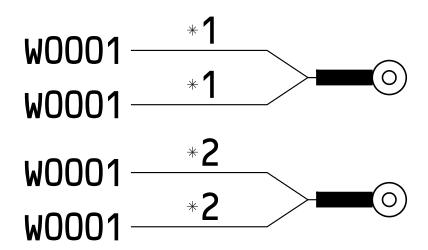
Page 4 Dec 18/2007



1) * In the splice field indicates two or more wires terminate in the same attaching device, i.e., lug, pin, or solder terminal (not used on SP or SM splices).



2) * 1, * 2, * 3 designate which wires appear in which single device, i.e., * 1 wires are lugged together; * 2 wires are lugged together in a second lug and * 3 wires are lugged together in the third lug.



3) Ferrule groups or shielded wires with shields tied together with jumpers are identified as a common terminus by a two letter F() code. All shields with an "FA" in either SP field are common.

Sometimes a jumper wire number FR-() is used to connect the FA shields and a termination such as a pin in a connector or to a ground. Jumper FRAA is required to terminate FA, jumper FRAB is required for FB and so on.

4) Shields terminating in a splice will show "A", "B", and so on, in the SP field. The wire from the splice to another termination will be numbered "JPA", "JPB", and so on.

(I) EFFECTIVITY Field

This is a Boeing or a Customer assigned number to keep track of airplanes. An effectivity is presented as a single airplane or in a range, e.g., PP001-PP099 or 001-999 or AAA-ZZZ, covering several airplanes. The word "ALL" means that the item is applicable for all aircraft listed in the Effective Aircraft section.

D. Spare Wire List—Chapter 91-12-12

- (a) The Spare Wire List reflects all spare wires within the airplane. Spare Wires are reported in order by From Matewith Equipment, Position Number on that Equipment, the Wire Bundle Number, then Wire Bundle Separation Code, From Terminating Equipment Number, and Wire Number.
- (b) Additional information provided in the Spare Wire List is Wire Bundle Description, Terminal Number on the From Equipment, Terminal Type on the From Equipment, the Wire Gauge, Wire Type, To Equipment Number, Terminal Number on the To Equipment, Terminal Type on the To Equipment, the To Matewith Equipment, the Position on the To Matewith Equipment, and Effectivity.

E. Master Bundle List—Chapter 91-21-13

- (a) The Master Bundle List reflects all wire bundles within the airplane. Master Bundle List is reported in Bundle number order with the corresponding Separation Code and Description.
- (b) The Equipment field contains the Equipment Item Number of the ends of that Wire Bundle. The Matewith field contains the Equipment Item Number where the end equipment mates with. The LOCATION may contain position, Panel numbers or Station/Water/Buttock line information. The MW Connector field contains the Equipment number of the mating connector. The MW Bundle field contains the Bundle number.

F. Ground List—Chapter 91-21-21

- (a) The Ground List reflects two types of airframe grounds used within an airplane. Ground Blocks (GB) are used only in pressurized areas, while Ground Studs (GD) are used in both pressurized and non-pressurized areas. Grounds on shelves and panels (GDM, GDX, GDY, GDZ, GBX, GBY, and GBZ) are not listed as they are unique within a specific shelf or panel.
- (b) The list gives ground numbers in alphanumeric order, type of ground (AC, DC or ST), effectivity, location (STATION/WL/BL), terminal type (TYPE) and the diagram it is shown on. Additionally, each wire terminating at a ground is listed.
- (c) The detail rows below the Ground number contain Termination number, Termination type, Wire bundle number, Wire number within that bundle, wire gauge and color of that wire, diagram reference and effectivity.



G. Splice List—Chapter 91-21-31

- (a) The Splice List reflects all splices (SP) unique within an airplane. Splices (SP) are used when connecting wires from other wire bundles and vendor wires within the same wire bundle. Smooths (SM) are not listed as they are unique only to a wire bundle.
- (b) Splice List reflects all splices within an airplane. The Splice List is reported in alphanumeric order, with the Location (Station/WL/BL).
- (c) The detail rows below the Splice number contain Wire bundle number, Wire number within that bundle, wire gauge, color of that wire, type of wire and the diagram reference, and effectivity.

H. Terminal Strip List—Chapter 91-21-41

- (a) The Terminal Strip List reflects all the terminal strips within an airplane. The Terminal Strip List is reported in alphanumeric order with their part number and location (STATION/WL/BL).
- (b) The detail rows below the Terminal Strip number contain the terminal block fixture identifier, each terminal on a strip, the terminal type, the wire bundle number, the wire number, the gauge and color, the diagram depicting each wire and the effectivity for each wire.
- (c) The fixture (FIX) field reflects the type of terminal block installed on a terminal strip. The various types of terminal blocks are shown in the Symbols section.
- (d) The term G reflects the wire terminating at the integrated grounding module part of the terminal track.

I. Hookup List—Chapter 91-21-51

(a) The Hookup List reflects all wire terminating devises except grounds, splices, terminal strips and single-phase circuit breakers within an airplane. The Hookup List reports the Equipment in alphanumeric order with their location (STATION/WL/BL) and Description.

Single-phase (one circuit) circuit breakers are not listed for two primary reasons:

- Each unit is shown complete on the affected diagram. Hookup List data would be redundant.
- The benefits to be derived from listing the units would not justify the increased size of the manual.
- (b) The detail rows below the Equipment contain the terminals on these devises and the terminal type. The wire bundles, their wire numbers gauge and color terminating at each terminal is listed along with the diagram on which the terminal is depicted and its effectivity.

CHARTS AND LISTS

Page 7 Dec 18/2007



3. EXPLANATION OF WIRE NUMBERING AND COLOR CODES FOR THE CHAPTER 91 LISTS (91-21-11 THRU 91-21-51).

A. Wire Numbering

Wire serial numbers are wire bundle unique and are generally chosen from the following categories:

NOTE: Wire numbers reserved for Airline use are 901-999 and 9001-9999, based on the existing wire number patterns in a given Wire bundle. For example: Wire numbers with three numerics will use 901-999 and Wire numbers with four numerics will use 9001-9999.

CATEGORY	WIRE NUMBER
Single (Unshielded)	0001-0999
Single Shielded Wire	1001-1999
Single Wire Shield Pigtail	1001Z-1999Z
Twisted Pair Unshielded	2001B-2499B 2001R-2499R
Twisted Pair Shielded	2501B-2999B 2501R-2999R
Twisted Pair Shield Pigtail	2501Z-2999Z
Twisted Triplet Unshielded	3001B-3499B 3001R-3499R 3001Y-3499Y
Twisted Triplet Shielded	3501B-3999B 3501R-3999R 3501Y-3999Y
Twisted Triplet Shield Pigtail	3501Z-3999Z
Twisted Quads Unshielded	4001B-4249B 4001G-4249G 4001R-4249R 4001Y-4249Y
Twisted Quads Shielded	4251B-4499B 4251G-4499G 4251R-4499R 4251Y-4499Y
Twisted Quads Shield Pigtail	4251Z-4499Z
Special Wires (High Temp Thermocouple, etc.)	4501-4999 4501AA-4999YY
Overflow of Above (does not apply to shields)	5501-8999
Coaxial Cable	001CX-999CX
Shield	001C0-999C0
Twinax Cable	001X1-999X1 001X2-999X2
Shield	001C0-999C0
Triaxial Cable	001TX-999TX
Inner Shield	001TI-999TI

CHARTS AND LISTS

Page 8



CATEGORY	WIRE NUMBER
continued	
Outer Shield	001T0-999T0
Vendor Furnished Wires	A-A thru Z-Z 1-1 thru 8-99
Shield Pigtail Wires Ferrule Group to a Termination (Pin, Ground, etc.)	FRAA-FRZZ (AA-ZZ is the Ferrule Splice code)
Polarizing Pin or Rod in Relay Sockets	PA01-PY99
Braid Over Bundle	YAAA-YZZZ
Separation Sleeving Protective Sleeving	S001-S999 P001-P999

B. Wire Color Codes

Wires may be identified by color instead of wire numbers.

WIRE COLOR	WIRE NUMBER
Black	OBLK
Blue	OBLU
Green	OGRN
Red	ORED
Violet	OVIO
White	OWHT
White/Black	OWBK
White/Brown	OWBN
White/Brown/Red	OWNR
White/Green	OWGR
White/Orange	OWOR
White/Pink	OWPK
White/Purple	OWPU
White/Purple/Red	OWPR
White/Red/Blue	OWRB
White/Red/Green	0
White/Violet	OWVI
White/Yellow	OWYL
White/Yellow/Red	OWYR

(a) Vendor furnished pigtails use an identifying feature of the wire (color, no., etc.) A red pigtail wire will be considered as connecting to terminal "Red" on the pigtailed equipment side, then to a splice, pin, etc., on the other side.

Items with pigtails where unique identification is not provided should be numbered uniquely. The identification should not exceed three digits and should be numbered consecutively 1,2, 3, etc.



Vendor furnished pigtail color codes used in the "TERM" field are:

COLOR	CODE
Black	BLK
Black/Blue	ВКВ
Black/Brown	BKN
Black/Green	BKG
Black/Gray	BKA
Black/Orange	ВКО
Black/Red	BKR
Black/Violet	BKV
Black/White	BKW
Black/Yellow	BKY
Black/White/Orange	BWO
Black/White/Red	BWR
Blue	BLU
Blue/Black	BBK
Blue/Brown	BBN
Blue/Green	BLG
Blue/Green/Black	BGK
Blue/Orange	BOR
Blue/Purple	BPR
Blue/Red	BRD
Blue/White	BWH
Blue/White/Orange	UWO
Blue/Yellow	BLY
Brown	BRN
Brown/Blue	BRB
Brown/Gray	BGR
Brown/Green	BRG
Brown/Orange	BRO
Brown/Red	BRR
Brown/Violet	BRV
Brown/Yellow	BRY
Gray	GRA
Green	GRN
Green/Black	GBK
Green/Purple	GPR
Green/Red	GRD
Green/White	GWH



COLOR	CODE
continued	
Green/Yellow	GYL
Green/Black/Orange	GBO
Green/Black/White	GBW
Orange	ORG
Orange/Black	OBK
Orange/Brown	OBN
Orange/Green	OGR
Orange/Purple	OPR
Orange/Red	ORD
Orange/Yellow	OYL
Orange/Black/Green	OBG
Orange/Black/White	OBW
Pink	PNK
Purple	PUR
Red	RED
Red/Black	RBK
Red/Black/Green	RBG
Red/Black/White	RBW
Red/Brown	RBR
Red/Green	RGR
Red/Orange	ROR
Red/Purple	RPR
Red/White	RWH
Red/Yellow	RYL
Red/Yellow/Green	RYG
Uninsulated Wire	UNI
Violet	VIO
White	WHT
White/Black	WBK
White/Blue	WBU
White/Blue/Yellow	WBY
White/Brown	WBN
White/Gray	WGY
White/Green	WGR
White/Orange	WOR
White/Orange/Black	WOB
White/Purple	WPU



COLOR	CODE
continued	
White/Red	WRD
White/Red/Blue	WRB
White/Yellow	WYL
White/Black/Brown	WBB
White/Black/Orange	WBO
White/Black/Red	WBR
White/Pink	WPK
White/Red/Green	WRG
Yellow	YEL
Yellow/Black	YBK
Yellow/Green	YGR
Yellow/Orange	YOR
Yellow/Purple	YPR

Pigtail identifications that are Boeing assigned will be preceded by an equal sign (=).



1. WIRE TYPE CODE

This information is covered in Chapter 20, Standard Wiring Practices, Section 20-00-13.

2. VENDOR CODE

For Vendor Code translation, refer to:

H4-1: Federal Supply Code for Manufacturers-Name to Code H4-2: Federal Supply Code for Manufacturers-Code to Name

H4-3: Nato Supply Code for Manufacturers-Name to Code/Code to Name

Published by:

Defense Supply Agency Defense Logistics Services Center Federal Center Building Battle Creek, Michigan 49016

VENDOR CODE	SPECIAL VENDOR CODE ASSIGNMENT
V96906	Parts having Military Part Numbers
VAAL	American Airlines Inc. Tulsa, Oklahoma
VAB	Coastal Mfg. Co. Santa Monica, California
VAC	Safety Industries Inc. Glen Ellyn, Illinois
VAD	Glarban Corp. Gordonville, N.Y.
VAE	Ucinite Co., The Los Angeles, California
VAF	Air France 1 Square Max Hymans 75, Paris 15, France
VAI	Industrial Products Co. Gardena, California
VAJ	Bozak Sales Co. Salisbury, Connecticut
VAO	Teddington Controls Ltd. Tydfil, South Wales
VARINC	Arinc
VARMED	Airmed Ltd. Edinburgh Way Harlow, Essex, England
VAZ	Murphy Radio Ltd. Welwyn Garden City Hertfordshire, England



WIRING DIAGRAM MANUAL

INTRODUCTION

VENDOR CODE	SPECIAL VENDOR	CODE ASSIGNMENT
VENDON CODE	SELVIAL VLIVDOIX	CODE ASSIGNMENT

continued...

VBG

VBB United Data Control Inc.

Pasadena, California

VBC Holmberg and Co.

Ohlaur Strausse 5-11 Berlin, S036

VBD John E. Lindberg Co.

Berkely, California

VBF The Firewall Co.

Subsidiary of Aro Corpl

Los Angeles, California

VBFE Buyer Furnished Equipment

Societe Française D'Equipments

(SFENA) Siege

Social 25A 20 Rue Du Point Nevilly, Seine, France

VBH Ackerman, Albert, Firma

Akerman Albert,

Gummersback/Rhld., Germany

VBJ Smiths Aviation Division

Cricklewood, London, England

VBJ Standard Telephones and Cables Ltd.

Connaught House, 63 Aldwich West Central 2, London, England

VBM Associated Industries

Seattle, Washington

VBO H.K. Wilson Co.

Bellevue, Washington

VBP Brook Part Laboratories, Inc.

Cleveland, Ohio

VBR Amplivox Ltd., Industrial Div.

Beresford, Av. Wembley,

Middlesex, England

VBRZVA Bronzavia-S.A.

207 Blvd. Saint-Denis 92 Courbevoie, France

VCELRD Cosser Electronics Limited

Radar Division

The Pinnalces, Elizabeth Way Harlow, Essex, England

VDELTA Delta Air Lines, Incorporated

Harsfield-Atlanta International Airport Atlanta, Georgia 30320

VEIA Electronic Industries Association



VENDOR CODE	SPECIAL VENDOR CODE ASSIGNMENT
continued	
VELNO	Elno 18 Rue Du Val Notre Dame 95 Argenteuil, France
VEPS	Electric Power Storage, Ltd. P.O. Box 5 Clifton Junction Swenton, Manchester England, M272LR
VFO241	Filotex 140 Rue Eugene-Delacroix 97210 Draveil France
VGRVNR	Graviner Inc. 1121 Bristol Rd Mountainside, N.J. 07092
VIMP	Inflight Motion Pictures, Inc. 23-06 31st Ave. Long Island City, New York 11106
VJAEGR	Jaeger 2 Rue Baudin Levallois-Perret 92 France

3. TERMINAL INFORMATION

The following index of "Term Type Codes" lists the code, a description of the code and, as applicable, the terminal stud size and/or part number. The code index is arranged in the following order:

- Single alphabetical letter
- Two character code with leading alphabetical letters
- Numbers
- Symbols

See Standard Wiring Practices (Chapter 20) for maintenance or repair information.

A. Single alphabetical letter

	TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
-	А	General Purpose Lug, Standard/Narrow, #2 Stud	BACT12AC43
	В	General Purpose Lug, Standard, #4 Stud	BACT12AR() or 2-323914-2 (24 Gage)
	С	General Purpose Lug, #6 Stud	BACT12AR() or BACT12AC()
	D	General Purpose Lug, #8 Stud	BACT12AR() or BACT12AC()
	Е	General Purpose Lug, #10 Stud	BACT12AR() or BACT12AC()
	F	General Purpose Lug, 1/4 Stud	BACT12AR() or BACT12AC()



TERM TYPE		
CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued		
G	General Purpose Lug, 5/16 Stud	BACT12AR() or BACT12AC()
Н	General Purpose Lug, 3/8 Stud	BACT12AR() or BACT12AC()
I	General Purpose Lug, Narrow #6 Stud	BACT12AR()
J	High Temperature Lug, #2 Stud	BACT12M()
K	High Temperature Lug, #4 Stud	BACT12M ()
L	High Temperature Lug, #6 Stud	BACT12M ()
M	High Temperature Lug, #8 Stud	BACT12M ()
N	High Temperature Lug, #10 Stud	BACT12M ()
Ο	General Purpose Lug, 1/2 Stud	BACT12AC()
Р	High Temperature Lug, 1/4 Stud	BACT12M ()
Q	High Temperature Lug, 5/16 Stud	BACT12M ()
R	High Temperature Lug, 3/8 Stud	BACT12M ()
S	Splice, In-line;Install See Chapter 20	
V	Splice, Shielded;Install See Chapter 20	
W	Install Moisture Seal Splice (Closed End) See Chapter 20	
Υ	End Cap & Stow After Test	
Z	Faston, 1/4 Stud	2-520184-4

B. Two character code with leading alphabetical letters

	TERM TYPE		
_	CODE	DESCRIPTION OF THE CODE	PART NUMBER
	AB	White;Faston, 1/4 Stud	42640-2 & 1-480416-0
	AC	Blue;Faston 1/4 Stud	42640-2 & 1-480416-3
	AD	Red;Faston, 1/4 Stud	42640-2 & 1-480416-4
	AG	Thermocouple Lug (Chromel) #6 Stud	AN5548-1
	AH	Thermocouple Lug (Alumel) #6 Stud	AN5548-2
	AW	General Purpose Lug, Thick Tounge, #10 Stud	150247
	AY	60 Degree Lug, 3/8 Stud	324103
	AZ	Miscellaneous Lug	YAES18-L85
	ВС	Splice, End Cap	328308
	BD	High Temperature Splice (Parallel)	2-34318-1
	BH	Terminal Block Contact	M39029/1-()-()
	BJ	Terminal Block Contact for BACM153**	M39029/11-145
	BK	Contact (Manufacturer)	60-1541-1



TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued		
BM	Copalum Lug, 1/4 Stud	277150-1
BN	Faston, .062 Stud	60900-1
BP	Parallel Splice, Install see Chapter 20	NAS1387-3
BS	Copalum Lug, Narrow, #10 Stud	277147-5
BT	Copalum Lug, 3/8 Stud	277147-2
BU	Copalum Lug, 1/4 Stud	277152-1 or 1-52521-2
BV	Faston, .110 Stud	3-520370-2 OR 640927-1
BX	Terminal, Faston	55319-1
BY	White;Faston, 1/4 Stud	61873-1 & 1-480416-0
CA	Coax Contact	48-1226-02
CK	Flag Lug, 1/4 Stud	YBM25-L1
CS	Stow with Protective Sleeving, See Chapter 20	
СТ	Install, Prepare End, See Chapter 20, and Stow	M39029/1-102
CX	Faston, .205 Stud	640909-1
D2		YAV14H1 NO.8 STUD
DG	Terminal Block Contact	M39029/22-191
DN	Coax Contact	BACC47EU4
E*	Flag Lug, #10 Stud	BACT12G-81
E/	Copalum Lug, Narrow, #10 Stud	277154-1
E2	General Purpose Lug, #10 Stud	324111
E3		YAV14H NO.10 STUD
E6	Coax Contact	48-1227-02
E8	Copalum Lug, #10 Stud	277147-1
FA	Ferrule for Fiber Optics	454819-162
FB	Ferrule for Fiber Optics	454900-162
FD	Ferrule for Fiber Optics	454819-145
F4	Copalum Lug, 1/4 Stud	277149-2
F6	Copalum Lug, Narrow, 1/4 Stud	277148-7 or 277154-2
GD	Copalum Splice (08-10 AL/CU, 08-08 AL/AL)	277156-1
GJ	Copalum Splice (*2-*1 AL/CU, *2-*2 AL/AL)	277161-1
GS	Special Contact	1841-1-5620
GU	Copalum Splice (04-08 AL/CU,)	277164-1
GW	Nickle Lug, #10 Stud	321894, 322338 or 323750
GX	Install Copalum In-Line Splice	



TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued		
GY	Nickle Lug, 1/4 Stud	322320, 322341 or 323751
G3	Nicle Lug, #8 Stud	321893, 322337 or 323749
G5	General Purpose Lug, 5/16" Stud	324112
G7	Nickle Lug, #6 Stud	321892 or322332
HA	Flag Lug, 3/8 Stud	BACT12G-24
HC	Thermocouple Contact (Socket, Chromel)	MS39029/86-512
HD	Spectial Contact (Pin)	030-8400-500
HE	Special Contact	318-1616-253
HF	Thermocouple Contact (Socket, Alumel)	MS39029/86-511
HG	Crimp Sleeve	BACA14AB-164
HH	Coax Contact	349-0005-000
HL	Special Contact (Socket)	031-8014-800
H*	Copalum Lug, Long, 3/8 Stud	277152-4
H1	Copalum Lug, Long, 3/8 Stud	277151-2
H2	Copalum Lug, 3/8 Stud	277150-3
H3	Copalum Lug, 3/8 Stud	277153-1
H4	Copalum Lug, 3/8 Stud	277149-4
H6	Copalum Lug, 3/8 Stud	277148-4
H7	Flag Lug, 3/8 Stud	BACT12G-44
H8	Flag Lug, 3/8 Stud	BACT12G-102
IA	Dual Stud-hole, 3/8 Stud	YAV4C-2L38-NK
IX	Dual Stud-hole, Copalum H/T, 1/4 Stud	55836-1
JB	Install & Stow, See Chapter 20	BACC47CN1A (PIN)
J1	Coax Contact	BACC47EU3
KA	General Purpose Lug, Short Tounge, #8 Stud	BACT12AL-15 OR 331456
LD	Miscellaneous Lug, Hook Tounge, #8 Stud	32456
LF	Miscellaneous Lug, Hook Tounge, #8 Stud	320381
LR	90 Degree Lug, #10 Stud	BACT12E()
LV	45 Degree Lug, 3/8 Stud	277069-1
LW	Removable Splice	BACT12A()
RW	Moisture seal Splice, Closed-end	D436-60
TA	Thermocouple Contact (Socket, Alumel)	031-1041-009



TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued		
TC	Thermocouple Contact	ZZL-4020-10R (PIN, ALUMEL) OR ZZL-4120-10R (SKT, ALUMEL)
TD	Thermocouple Contact	ZZL-4020-10P (PIN,CHROMEL) OR ZZL- 4120-10P (SKT, CHROMEL)
TE	Thermocouple Contact (Socket, Const)	ZZL-4112-10N
TF	Thermocouple Contact (Pin, Const.)	ZZL-4012-10N
TG	Thermocouple Contact (Socket,Chromel)	ZZL-4112-10P
TH	Thermocouple Contact (Socket, Alumel)	ZZL-4112-10R
TJ	Thermocouple Contact (Pin, Chromel)	ZZL-4012-10P
TK	Thermocouple Contact (Pin, Alumel)	ZZL-4012-10R
TL	Thermocouple Contact (Pin, Alumel)	030-1879-009
TM	Thermocouple Contact (Pin, Chromel)	030-1879-010
TU	Thermocouple Contact (Socket, Alumel)	031-1113-009
TV	Thermocouple Contact (Socket, Chromel)	031-1041-010
TW	Thermocouple Contact (Socket, Chromel)	031-1113-010
VA	Coax Contact	48-1227-54
VB	Coax Contact	48-1226-54
VC	Special Contact	66143-2LP
VG	Removable Splice (Blue) with BACC47CN2 Socket	48-7190 OR AIS16P
VJ	Special Contact	BACC47CP1T
VL	Moisture Proof Shielded Splice	
VM	Install Contact, Prepare End and Stow, See Chapter 20	BACC47EF1
VN	Shielded Contact	10-60479-44
VP	Install Contact and Stow, See Chapter 20	
VR	Removable Splice (Red) with BACC47CN2 Pin	48-7190-1 OR AIS16P-1
VS	Removable Splice (Red) With BACC47CP2T Socket	48-7191-1 or AIS16R-1
VT	Removable Splice (Blue) with 48-100-5021P Oversize Pin	48-7190 OR AIS16P
VU	Removable Splice (Blue) with 248-136- 1614S-02 Oversize Socket	48-7191 OR AIS16R



TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued	BEGOMM FIGHT OF THE GOBE	THE TRANSPORT
VV	Removable Splice (Red) with 48-10-5021-P Oversize Pin	48-7191 OR AIS16P-1
VW	Removable Splice (Red) with 248-136- 1614S-02 Oversize Socket	48-7191-1 OR AIS16R-1
VX	Removable Splice	TSE-20-01 & 1841-1-5620 (PIN)
VY	Removable Splice (Blue) with BACC47CP2T Socket	48-7191 OR AIS16R
V1	High Temperature Splice (Moisture Seal and Shielded), Install See Chapter 20	D-150-0251
WI	Splice, Closed-end; Install See Chapter 20	
XQ	Miscellaneous Lug, Split Spade Toungue, #6 Stud	52420
XR	Amp, Spring Spade, #6 Stud	52409
ZA	Removable Splice (Red) and BACC47CN2(Pin). Stow with Plastic Cap, See Chapter 20	48-7190-1
ZB	Removable Splice (Red) and BACC47CO2T (Socket). Stow with Plastic Cap, See Chapter 20	48-7191-1
Z1	Faston, .110 Stud	2-520081-2
Z2	Faston, .058 Stud	60789-2
Numbers		
TERM TYPE		
CODE	DESCRIPTION OF THE CODE	PART NUMBER
1	Terminal Block Contact, blue/blue/blue stripe	S280W555-916
2	Terminal Block Contact	BACC47DE()
4	90 degree lug, 1/4 stud	BACT12E()
5	90 degree lug, 3/8 stud	BACT12E()

C.

4	90 degree lug, 1/4 stud	BACT12E()
5	90 degree lug, 3/8 stud	BACT12E()
8	Install Hi-temp splice (Moisture seal) see chapter 20	
9	Install Moisture seal splice, see chapter 20	
10	Oversize Contact #12	48-100-5020P-02 or P204540 (pin), 248- 136-1210S-02 or P204541 (socket)
14	Oversize Contact #16	48-100-5021P-02 (pin), 248-136-1614S-02 or P208575-S (socket)



TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued		
16	Oversize Contact #20	48-100-5007P-02 or 48-100-5012P-02 (pin), 248-136-2016S-02 or 318-2016-035 (socket)
18	Oversize Contact #20	P209553 (pin), 248-136-2018S-02 or P209541 (socket)
1A	Terminal Block Contact, Red/Red/Red	S280W555-920
1C	Terminal Block Contact	M39029/1-103
1D	Terminal Block Contact, Red/White/Red	S280W555-918
1M	Socket	M39029/57-358
1N	Socket	M39029/57-359
20	Oversize Contact #22 (socket)	100-2020S
22	Oversize Contact #22M (socket)	MS27491-22D
4A	Thermocouple Contact (Pin, Alumel)	5000-070-116
4B	Thermocouple Contact (Socket, Alumel)	M39029/10-521
4C	Thermocouple Contact (Pin, Chromel)	5000-070-216
4D	Thermocouple Contact (Socket, Chromel)	M39029/10-522
4G	Thermocouple Contact (Pin, Alumel)	ZZL-4016-10R
4H	Thermocouple Contact (Socket, Alumel)	ZZL-4116-10R
4K	Thermocouple Contact (Pin, Chromel)	ZZL-4016-10P
4L	Thermocouple Contact (Socket, Chromel)	ZZL-4116-10P
4U	Thermocouple Contact Lug (Chromel) #8 stud	1-321897-0
4V	Thermocouple Contact Lug (Alumel) #10 stud	1-321898-0
5E	Coax Contact	BACC47EN1
5M	Coax Contact, D-sub	CQMEM-200()
5N	Coax Socket, D-sub	CQMEF-200
5P	Coax Contact, Right Angle	CMX010-P502
5Q	Coax Contact, Right Angle	CMX010-S502
62	Thermocouple Contact (Pin, Alumel)	030-1975-009
63	Thermocouple Contact (Pin, Chromel)	030-1975-010
69	Customer Installed Contact	
70	Flag Lug, 1/4 stud	BACT12G-82
7T	Thermocouple Contact (Pin, Alumel)	030-1878-007
7U	Thermocouple Contact (Pin, Alumel)	030-1878-006



TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER	
continued			
98	Oversize Contact #22	66169-2	

D. Symbols

TERM TYPE		
CODE	DESCRIPTION OF THE CODE	PART NUMBER
#	Install & Stow, see chapter 20	BACC47DE
\$	Solder Connection: all size lugs	
*	indicated location	
%	Install & Stow, see chapter 20	M39029/11-145
%A	Install & Stow, see chapter 20	M39029/1-101
*	Install & Stow, see chapter 20 (#6 stud)	BACT12AR () or BACT12AC()
+	Install & Stow, see chapter 20 (#8 stud)	BACT12AR() or BACT12AC()
-	Install & Stow, see chapter 20 (#4 stud)	BACT12AR()
=	Install & Stow, see chapter 20 (#10 stud)	BACT12AR() or BACT12AC()

4. WIRE SEPARATION CATEGORY CODES

The Wire Separation Category is a three character code. Each character position is defined as follows:

- Power Separation
- Redundancy Separation
- EMC Separation

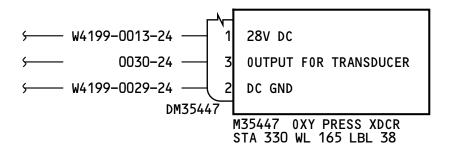
Power Separation Values	Redundancy Separation Values	EMC Separation Values
N-Neutral Circuits	N-No redundancy required	1–Source of Interference Circuits & Equipment
L-Left Power Circuits-Left Engine	A-1st, left or system	2-Passive Circuits & Equipment
R–Right Power Circuits-Right Engine	B-2nd (or Right) Redundant System Circuit	3-Sensitive (Susceptible) Circuits & Equipment
C-Center Power Circuits	C-3rd (or Center) Redundant System Circuit	
A–APU Control and Electric Power Circuits	D-4th Redundant System Circuit	
H–Hydraulic Motor Driven Generator		
S-Standby Power Circuits. Circuits powered by Battery, Hot Battery, and AC Standby Bus		



1. METHODS USED TO FIND INFORMATION

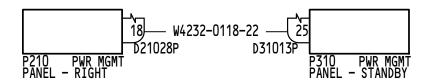
A. How To Locate A Diagram From A Wire Found In The Airplane

- (a) As an example, take wire number W4199-0013-24.
- (b) Knowing the wire bundle number W4199, refer to the Wire List in Chapter 91
- (c) Using Self Indexing wire list shown, locate wire bundle W4199.
- (d) Locate wire number 0013-24 and on the same line under the "Diagram" heading locate the diagram number 35-11-11.
- (e) Refer to Chapter 35 and locate the information needed on diagram 35-11-11.



B. How To Locate, In The Airplane, A Wire Found On A Wiring Diagram

- (a) Wire number W4232-0118-22 appears on Wiring Diagram 28-21-11.
- (b) Both ends of the wire are identified, disconnect D21028P at P210 panel and disconnect D31013P at P310 panel.



(c) Another method is to locate the bundle and wire number in the Wire List. The title of the bundle usually provides Station or Area for Airframe Bundles.

MANUAL USAGE

Page 1 Dec 18/2007



C. How To Locate Spare Wires Within A Wire Bundle

- (a) As an example, use wire bundle W487.
- (b) Knowing the wire bundle, refer to the Wire List in Chapter 91.
- (c) Using Self Indexing Wire List shown, locate wire bundle W487. In the "DIAGRAM' column you will find the wires that are spare wires are labeled "SPARE".
- (d) On the same line as the wire number, both end terminations will be indicated for all spare wires. (Check applicable airplane effectivity under the effectivity column.) Ground, Terminal Strip, Splice, and Hook-Up Lists will also show spare wires.
- (e) Spare wires are not shown on the wiring diagrams, only Airline Reserved Wires are shown, which are reserved for customer modifications.
- (f) Wires that become spare through an engineering change are identified by "SPARE" and are not part of the Customer spares equipment. Their use should be on an individual airplane basis.

D. How To Locate Unused Pins In A Connector

- (a) As an example use connector number DM31202A.
- (b) Knowing the connector number, refer to the Hook-Up List located Chapter 91
- (c) Using Self Indexing Hook-UP List shown, locate connector DM31202A.
- (d) Pin numbers 4-9 in the example are unused pins.

E. How To Determine The Number Of Pins In A Connector

- (a) To determine the number of pins in connector D01339J refer to the Equipment List.
- (b) Using Self Indexing Equipment List shown, locate connector D01339J.
- (c) To the right of D01339J the Part Number BACC45FN18-8P is shown. The number preceding "P" is 8 indicating there are a total of 8 pins in the connector.
- (d) For example, the graphic in the preceding section 1.D, connector DM31202A has 12 pins 6 used and 6 unused. For Non BACC45 type connectors, the number of pins in a connector can be determined by referring to:

Vendor Catalog

The number of pins in a BACC45 and a Non BACC45 type connector can also be determined by referring to the Hook-Up List.

F. Electrical Wiring Assembly and Installation Process How To Identify Lower Case Lettered Pins

Lower case lettered pins in disconnects are identified as A-.

MANUAL USAGE

Page 2 Dec 18/2007



G. How To Locate And Identify All Terminating Wires To A Terminal Strip

For a terminal module, the designator that represents all of the contact cavities in specific bus is the contact cavity with the lowest alphanumeric value. For example, if the bus indicator of the terminal module groups contact cavities A, B, and C, the item designator A is used to identify all three contact cavities.

- (a) As an example use Terminal Strip TB4301, and wires W5103-0002-*1 and W8100-0023-*1.
- (b) Knowing the terminal strip number TB4301, refer to Terminal Strip List in Chapter 91.
- (c) Using Self Indexing Terminal Strip List shown, locate terminal TB4301 at STA, WL, BL.
 - (d) Locate the Wires terminating at Pins 2 as W5103-0002-*1 and W8100-0023-*1 and they are shown to be on diagram 24-21-11.
- (e) Refer to the Equipment List for complete information regarding TB4301.

H. How To Find The Remaining Wires Passing Through A Connector That Are Not Shown On The Particular Diagram Being Used.

- (a) As an example use connector DM31202A.
- (b) Note the connector equipment number and find that equipment number in the Hook-Up Charts as shown.
- (c) All wires in the connector are listed. The diagram for each wire is also shown.

I. How To Determine Splice Numbers Of Splices Found On The Airplane.

- (a) Determine the wire number of any wire terminating at the splice in question. As an example use wire number W0022-A-A.
- (b) Knowing the wire number, refer to the Wire List in Chapter 91-21-11.
- (c) Using the Self Indexing Wire List shown below, locate wire number W0022-A-A. Under the "EQUIP" column note the splice number SP00211.
- (d) The wiring diagram the splice is depicted on is listed under the "DIAGRAM" column. Refer to the Charts & Lists Section for more information.

J. How To Locate A Splice On The Airplane Which Is Shown On A Wiring Diagram

- (a) There are several types of splices shown on wiring diagrams.
 - "SP" and "SPZ" splices connect wire from different wire bundles.
 - "SM" and "SMZ" splices connect wires of the same wire bundle.
 - "SPZ" and "SPZ" reflect customer assigned splice numbers.
- (b) "SP" and "SPZ" splice location information is derived from the Splice List in Chapter 91. For example, use "SP25005" and locate it in the self indexing Splice List shown.
 - 1) Read the station "STA", water line "WL", and buttock line "LBL" or "RBL".

- 2) SP25005 is located at STA 1450, WL 300 and RBL 030. If more than one splice is at that location compare the airplane wire numbers to those listed in the Splice List to assure the correct splice has been found.
- (c) "SM" and "SMZ" splice location information is determined by noting the wire number of a wire terminating at the splice in question.
 - 1) Knowing the wire number W1071-2027R-22 locate it in the self indexing wire list shown.
 - 2) The end points of W1071-2027R-22 are listed under the "EQUIP" column as SM00006 and DS31105. The length of the wire is given under "FT/IN" column.
 - 3) Locate DS31105 in the Equipment List shown. Note the location of the equipment under "STATION-WL-BL" column. In this example the equipment is located in the P007 panel.
 - 4) If the location of the P007 panel is not known refer to the Equipment List. Locate P007 in the Equipment List example shown.
 - 5) Knowing P007 is at STA 0174, WL 250, LBL 000 go to the aircraft and locate it.
 - 6) Locate DS31105 inside the P007 panel. Refer to the wire list example below and note the wire length between SM00006 and DS31105 is 2 ft. The wire length given in the wire list is the finished wire length when feet and inches are listed. If only feet are listed then the finished length can be +/- 18 inches.
 - 7) Locate wire W1071-2027R-22 at DS31105 and trace it 2 ft +/- 6 inches and locate SM00006. Verify the wire leading away from splice is W1071-2027R-22.

K. How To Determine Part Numbers For Equipment Depicted On A Wiring Diagram

Electrical and electronic equipment shown on wiring diagrams are assigned alphanumeric designators. These designators are used as cross reference symbols to the Equipment List where the part numbers and part descriptions are shown. Splices, grounds, wire bundles and vendor controlled equipment numbers are not included in the Equipment List.

(a) Part Numbers For Special Contacts Used On Connectors

Special contacts for connectors are identified by a code in the Term Type (TT) column of the wire list. These codes and contact part number for each are listed in the Codes section.

(b) Part Numbers For Standard Contacts Used On Connectors

Standard contacts for connectors are not assigned term type codes. Part numbers are determined by locating the connector equipment number (i.e. D02516) in the Equipment List and its part number (i.e. BACS16W1). The connector part number and assembly are located in the Chapter 20 Standard Wiring Practices Manual, D6-54446. The contact number can then be determined by reviewing the connector assembly section.

(c) Part Numbers For Terminals

Part numbers for terminals depicted on wiring diagrams can be found in Chapter 20 Standard Wiring Practices Manual, D6-54446. The part numbers are based on the gage and type of wire.

(d) Part Numbers For Contacts Used On Terminal Blocks

The terminal block module part number must be determined by locating it in the Equipment List. Once this is known, refer to the Cross Reference Index in Chapter 20 to locate the contact part number and installation information.

L. How To Determine The Location Of Equipment Listed In The Equipment List

Each equipment location is defined by the following three dimensional coordinate system: Station Line, Water Line and Buttock Line.

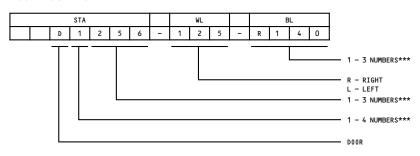
The airplane is divided into six different areas, each with its unique set of coordinates: (1) Body, (2) Wing, (3) Wing Tip, (4) Stabilizer, (5) Fin and (6) Nacelle.

The coordinate interrelations are defined in Chapter 91.

- (a) The format of characters as indicated below represent the possible alpha-numeric combinations which define the different area coordinates.
 - 1) Door Location

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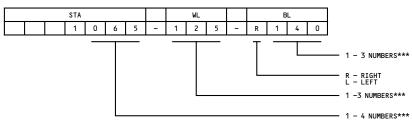
DOOR LOCATION





2) Body Location

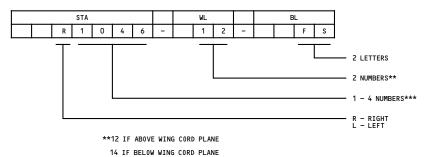
BODY LOCATION



***INCLUDE LEADING ZEROS

3) Wing Location

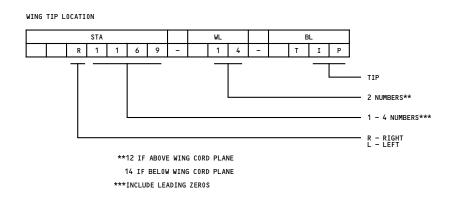
WING LOCATION



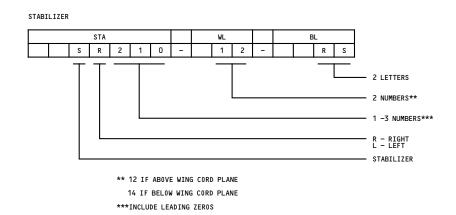
***INCLUDE LEADING ZEROS



4) Wing Tip Location

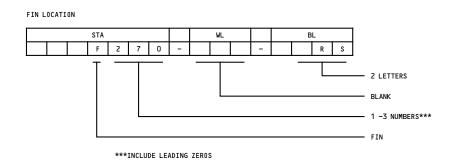


5) Stabilizer Location

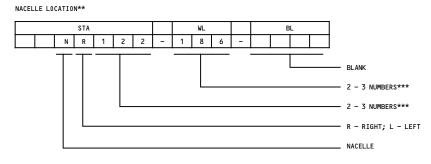




6) Fin Location



7) Nacelle Location

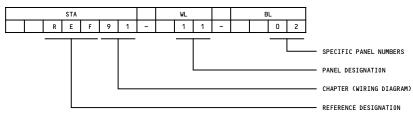


**NACELLE LOCATIONS INCLUDE BOTH ENGINE AND STRUT LOCATIONS



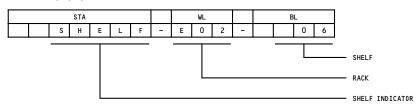
- (b) In addition to the aforementioned location definitions, the following special location definitions are necessary:
 - 1) Chapter 91 Cross Reference For Circuit Breaker

CHAPTER 91 CROSS REFERENCE FOR CIRCUIT BREAKER



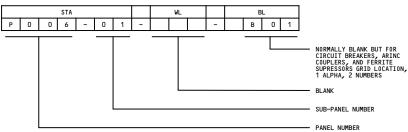
2) Shelves -E1, E2, E3, etc.

SHELVES - E1,E2,E3,ETC.



3) Panels -P1, P2, P3, etc.

PANEL - P1,P2,P3,ETC.

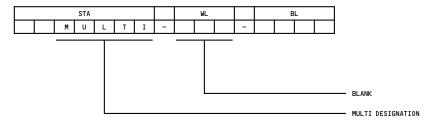




4) Multiple Location For Identical Units

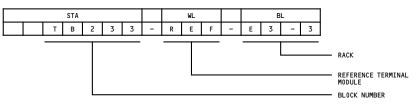
Nomenclature Of Item Denotes Location Usage

MULTI USAGE ITEM LOCATION



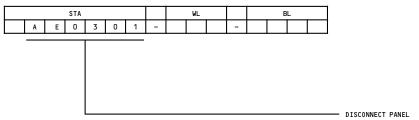
5) Diode-Rack

DIODE - RACK



6) Disconnect Panel Location

DISCONNECT PANEL LOCATION





7) The following areas and their codes give forward and aft positioning on wings, stabilizers, and fins.

IDENTIFIED AREA	CODE
Leading Edge	LE
Front Spar	FS
Mid Spar	MS
Rear Spar	RS
Trailing Edge	TE
Extended Trailing Edge	ET
Plus	Р
Minus	M

P or M define position, above or below respectively, of the wing or stabilizer chord plane.

2. METHODS USED TO ORDER A WIRE BUNDLE

A. How to Determine Wire Bundle (Harness) Information for Ordering a Wire Bundle

The Wire Bundle part numbers have been added to the Wire List for use when ordering a Wire Bundle form Boeing.

- (a) Find the Wire Bundle (ie. W0041) of interest in the Wire List.
 - Find the Part Number of the Wire Bundle, the second entry of the header row of each Wire Bundle.
- (b) Verify the Wire Bundle is applicable to the airplane of interest (Effectivity)
- (c) Provide Boeing the Wire Bundle Part Number and the airplane's Boeing Variable Number when ordering.



Chapter 20 consists of standard practices used to remove, repair and/or install wiring and equipment associated with wiring and its termination.

(This information is covered in D6-54446, the CHAPTER 20 STANDARD WIRING PRACTICES MANUAL.)

STANDARD WIRING PRACTICES

D280N032 Page 1 Dec 18/2007