



737-700/800

WIRING DIAGRAM MANUAL

Hapag-Lloyd Flug GmbH

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737-700/800

WIRING DIAGRAM MANUAL

This manual is applicable to the aircraft on this list:

Model-Series	Operator		Manufacturer			Registration Number
	Identification Code	Effectivity Code	Block Number	Serial Number	Line Number	
737-8K5	HAP	006	YC001	27981	7	D-AHFA
737-8K5	HAP	007	YC002	27982	8	D-AHFB
737-8K5	HAP	001	YC003	27977	9	D-AHFC
737-8K5	HAP	002	YC004	27978	40	D-AHFD
737-8K5	HAP	003	YC005	27979	44	D-AHFE
737-8K5	TRX	004	YC006	27980	45	EI-EDZ
737-8K5	TRX	005	YC007	27989	59	EI-EEA
737-8K5	HAP	008	YC008	27983	218	D-AHFH
737-8K5	HAP	009	YC009	27984	220	D-AHFI
737-8K5	JFU	010	YC010	27990	246	CN-RPE
737-8K5	HAP	011	YC011	27991	248	HA-LKC
737-8K5	HAP	012	YC012	27985	470	HA-LKD
737-8K5	HAP	013	YC013	27986	474	D-AHFM
737-8K5	HAP	015	YC015	27987	499	D-AHFO
737-8K5	HAP	016	YC016	27988	508	D-AHFP
737-8K5	HAP	017	YC017	27992	523	D-AHFQ
737-8K5	HAP	019	YC018	30593	528	D-AHFR
737-8K5	HAP	018	YC019	28623	556	D-AHFS
737-8K5	HAP	020	YC020	30413	636	D-AHFT
737-8K5	HAP	021	YC021	30414	703	D-AHFU
737-8K5	HAP	022	YC022	30415	719	D-AHJV
737-8K5	HAP	023	YC023	30882	760	D-AHFW
737-8K5	HAP	024	YC024	30416	778	D-AHFX
737-8K5	HAP	025	YC025	30417	781	D-AHFY
737-8K5	HAP	026	YC026	30883	783	D-AHFZ
737-8K5	TYM	028	YC028	32905	1046	VQ-BDN
737-8K5	TYM	029	YC029	32906	1087	VQ-BDO
737-8K5	HAP	030	YC030	32907	1117	D-AHLR
737-8K5	HAP	031	YK901	34684	1870	D-ATUC
737-8K5	HAP	032	YK902	34685	1901	D-ATUD
737-8K5	HAP	033	YK903	34686	1903	D-ATUE
737-8K5	HAP	034	YK904	34687	1907	D-ATUF

EFFECTIVE AIRCRAFT

D280A103

Page 1
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

Model-Series	Operator		Manufacturer			Registration Number
	Identification Code	Effectivity Code	Block Number	Serial Number	Line Number	
737-8K5	HAP	035	YK905	34688	1909	D-ATUG
737-8K5	HAP	036	YK906	34689	1935	D-ATUH
737-8K5	BRI	037	YK907	34690	2184	G-FDZJ
737-8K5	JFU	039	YK908	34691	2246	CN-RPF
737-8K5	JFU	040	YK909	34692	2249	CN-RPG
737-8K5	TLB	041	YK910	35133	2313	OO-JAF
737-8K5	TLB	047	YK911	35142	2660	OO-JBG
737-8K5	TLB	049	YK912	35148	2790	OO-JAQ
737-8K5	HXL	054	YK918	35100	2424	PH-TFA
737-8K5	HXL	050	YK919	35149	2820	PH-TFB
737-8K5	HAP	048	YL401	35143	2763	D-AHLK
737-8K5	BRI	038	YL421	35134	2152	G-FDZA
737-8K5	BRI	042	YL422	35131	2242	G-FDZB
737-8K5	BRI	043	YL423	35132	2276	G-FDZD
737-8K5	BRI	044	YL424	35137	2482	G-FDZE
737-8K5	BRI	045	YL425	35138	2499	G-FDZF
737-8K5	BRI	046	YL426	35139	2538	G-FDZG
737-8K5	BRI	051	YL427	35145	2849	G-FDZR
737-8K5	BRI	052	YL428	35147	2866	G-FDZS
737-8K5	HXL	053	YL429	35146	2875	PH-TFC
737-7K5	HAP	101	YM643	34693	2260	D-AHXC
737-7K5	HAP	102	YM645	35135	2451	D-AHXE
737-7K5	HAP	103	YM646	35136	2465	D-AHXF
737-7K5	HAP	104	YM647	35140	2575	D-AHXC
737-7K5	HAP	105	YM649	35141	2603	D-AHXI
737-7K5	TLB	106	YM651	35144	2652	OO-JAS
737-7K5	TLB	107	YM652	35150	2825	OO-JAR

EFFECTIVE AIRCRAFT

D280A103

Page 2
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

Hapag-Lloyd Flug GmbH
Revision No. 42

Aug 10/2009

To: All holders of this Boeing Document D280A103

Attached is the current revision to the 737 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.

NOTE: IF YOU RECEIVE PRINTED REVISIONS, PLEASE VERIFY THAT YOU HAVE RECEIVED AND FILED THE PREVIOUS REVISION. BOEING MUST BE NOTIFIED WITHIN 30 DAYS IF YOU HAVE NOT RECEIVED THE PREVIOUS REVISION. REQUESTS FOR REVISIONS OTHER THAN THE PREVIOUS REVISION WILL REQUIRE A COMPLETE MANUAL REPRINT SUBJECT TO REPRINT CHARGES SHOWN IN THE DATA AND SERVICES CATALOG.

TRANSMITTAL LETTER

D280A103

Page 1
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

Location of Change

Description of Change

SERVICE BULLETIN LIST

24A1141 R02 Effectivities updated
24A1141 R02 Title updated
30-1047 Title updated
31-1185 Title updated
31-1362 Status Updated
34-2194 Added
56-1017 R01 Status Updated

CUSTOMER CHANGE LIST

MR 39273-4 Added

CHAPTER 23

23-11-11

Page 3A

MR 39273-4

23-11-11

Page 4A

MR 39273-4

CHAPTER 33

33-11-41

Page 2.1A, Sheet 1

34-2194

33-18-62

Page 4.1

34-2194

CHAPTER 34

34-57-21

Page 1.1

34-2194

EQUIPMENT LIST

EQUIPMENT LIST

24A1141 R02

HIGHLIGHTS

Page 1

Aug 10/2009

D280A103



737-700/800

WIRING DIAGRAM MANUAL

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
TITLE PAGE		CUSTOMER CHANGE LIST (cont.)		DEFINITIONS (cont.)	
R 1	Aug 10/2009	2	BLANK	8	Apr 18/2007
2	BLANK	ALPHABETICAL INDEX		9	Apr 18/2007
EFFECTIVE AIRCRAFT		1	Oct 20/2006	10	BLANK
R 1	Aug 10/2009	2	Oct 20/2006	EQUIPMENT LIST	
R 2	Aug 10/2009	3	Oct 20/2006	1	Jul 26/2006
TRANSMITTAL LETTER		4	Oct 20/2006	2	Jul 26/2006
R 1	Aug 10/2009	5	Oct 20/2006	3	Jul 26/2006
2	BLANK	6	Oct 20/2006	4	Oct 15/2007
HIGHLIGHTS		7	Oct 20/2006	5	Oct 15/2007
R 1	Aug 10/2009	8	Oct 20/2006	6	Jul 26/2006
2	BLANK	9	Oct 20/2006	WIRING DIAGRAMS	
EFFECTIVE PAGES		10	Oct 20/2006	1	Jul 26/2006
1 thru 2	Aug 10/2009	11	Oct 20/2006	2	Jul 26/2006
EFFECTIVE CHAPTERS		12	Apr 18/2007	3	Jul 26/2006
R 1	Aug 10/2009	13	Apr 18/2007	4	Jul 26/2006
2	BLANK	14	Apr 18/2007	5	Jul 26/2006
BOEING REVISION		15	Apr 18/2007	6	Jul 26/2006
1	Oct 15/2007	16	Apr 18/2007	7	Jul 26/2006
R 2	Aug 10/2009	17	Apr 18/2007	8	Jul 26/2006
REVISION RECORD		18	Apr 18/2007	9	Jul 26/2006
1	Mar 31/2005	19	Apr 18/2007	10	BLANK
2	Mar 31/2005	20	Apr 18/2007	CHARTS AND LISTS	
RECORD OF TEMPORARY REVISIONS		GENERAL INFORMATION		1	Jul 26/2006
1	Mar 31/2005	1	Jul 26/2006	2	Jul 26/2006
2	Mar 31/2005	2	Jul 26/2006	3	Jul 26/2006
SERVICE BULLETIN LIST		3	Jul 26/2006	4	Jul 26/2006
1	May 11/2009	4	Jul 26/2006	5	Jul 26/2006
R 2	Aug 10/2009	DEFINITIONS		6	Feb 12/2008
O 3	Aug 10/2009	1	Jul 26/2006	7	Jul 26/2006
R 4	Aug 10/2009	2	Jul 26/2006	8	Jul 26/2006
R 5	Aug 10/2009	3	Jul 26/2006	9	Jul 26/2006
R 6	Aug 10/2009	4	Jul 26/2006	10	Jul 26/2006
A 7	Aug 10/2009	5	Jul 26/2006	11	Jul 26/2006
A 8	BLANK	6	Feb 12/2008	12	BLANK
CUSTOMER CHANGE LIST		7	Apr 18/2007		
R 1	Aug 10/2009				

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

EFFECTIVE PAGES

Page 1
Aug 10/2009

D280A103



737-700/800

WIRING DIAGRAM MANUAL

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
CODES					
1	Jul 26/2006				
2	Jul 26/2006				
3	Jul 26/2006				
4	Jul 26/2006				
5	Jul 26/2006				
6	Nov 11/2008				
7	Jul 26/2006				
8	Jul 26/2006				
9	Feb 09/2009				
10	Feb 09/2009				
11	Feb 09/2009				
12	BLANK				
MANUAL USAGE					
1	Jul 26/2006				
2	Jul 26/2006				
3	Aug 13/2008				
4	Aug 13/2008				
5	Aug 13/2008				
6	Jul 26/2006				
7	Feb 12/2008				
8	Jul 26/2006				
9	Jul 26/2006				
10	Jul 26/2006				
11	Jul 26/2006				
12	BLANK				
STANDARD WIRING PRACTICES					
1	Jul 26/2006				
2	BLANK				

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

EFFECTIVE PAGES

Page 2
Aug 10/2009

D280A103



737-700/800

WIRING DIAGRAM MANUAL

Chapter	Date	Title	
	00	FEB 09/2009	GENERAL
	21	MAY 11/2009	AIR CONDITIONING
R	22	AUG 10/2009	AUTOFLIGHT
R	23	AUG 10/2009	COMMUNICATIONS
R	24	AUG 10/2009	ELECTRICAL POWER
	25	FEB 09/2009	EQUIPMENT / FURNISHINGS
	26	FEB 09/2009	FIRE PROTECTION
	27	MAY 11/2009	FLIGHT CONTROLS
R	28	AUG 10/2009	FUEL
	29	MAY 11/2009	HYDRAULIC POWER
R	30	AUG 10/2009	ICE AND RAIN PROTECTION
R	31	AUG 10/2009	INDICATING / RECORDING SYSTEMS
R	32	AUG 10/2009	LANDING GEAR
R	33	AUG 10/2009	LIGHTS
R	34	AUG 10/2009	NAVIGATION
	35	MAY 11/2009	OXYGEN
	36	FEB 09/2009	PNEUMATIC
R	38	AUG 10/2009	WATER / WASTE
	47	FEB 09/2009	INERT GAS SYSTEMS
	49	MAY 11/2009	AIRBORNE AUXILIARY POWER
	52	FEB 09/2009	DOORS
	73	FEB 09/2009	ENGINE FUEL AND CONTROL
R	74	AUG 10/2009	IGNITION
	75	MAY 11/2009	AIR
R	76	AUG 10/2009	ENGINE CONTROLS
	77	MAY 11/2009	ENGINE INDICATING
	78	MAY 11/2009	EXHAUST
	79	FEB 09/2009	OIL
	80	FEB 09/2009	STARTING
R	91	AUG 10/2009	CHARTS

A = Added, R = Revised, D = Deleted

EFFECTIVE CHAPTERS

D280A103

Page 1
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

Revision	Type	Date	Effectivity Range
0	Basic	Dec 12/1997	YC001-YC007
1		Mar 06/1998	
2		Jun 12/1998	
3	Follow-On	Dec 23/1998	YC008-YC011
4		Mar 23/1999	
5		Jun 21/1999	
6	Post Delivery	Jul 27/1999	
7	Follow-On	Oct 27/1999	YC012-YC013
8	Follow-On	Jan 26/2000	YC015-YC019
9	Follow-On	Apr 25/2000	YC020
10	Follow-On	Jul 21/2000	YC021
11	Follow-On	Oct 19/2000	YC022-YC023, YC026
12	Follow-On	Jan 17/2001	YC024-YC025, YC027
13		Apr 17/2001	
14		Jul 16/2001	
15	Follow-On	Nov 09/2001	YC028-YC029
16	Follow-On	Feb 08/2002	YC030
17		May 09/2002	
18		Aug 07/2002	
19	Post Delivery	Nov 15/2002	
20	Post Delivery	Mar 03/2003	
21	Post Delivery	Jun 06/2003	
22	Post Delivery	Sep 24/2003	
23	Post Delivery	Sep 03/2004	
24	Post Delivery	Dec 20/2004	
25	Post Delivery	Mar 31/2005	
26	Follow-On	Oct 20/2005	YK901-YK903
27	Follow-On	Jan 18/2006	YK904-YK906
28		Apr 18/2006	
29		Jul 26/2006	
30		Oct 20/2006	YL421

BOEING REVISION RECORD

D280A103

Page 1
Oct 15/2007



737-700/800

WIRING DIAGRAM MANUAL

Revision	Type	Date	Effectivity Range
31	Follow-On	Jan 18/2007	YK907-YK909, YL422, YM643
32	Follow-On	Apr 18/2007	YK910, YL423
33		Jul 17/2007	
34	Follow-On	Oct 15/2007	YL424-YL425, YM645-YM646
35	Follow-On	Jan 14/2008	YL426
36	Follow-On	Feb 12/2008	YM647, YM649
37	Follow-On	May 13/2008	YK911, YM651
38	Follow-On	Aug 13/2008	YK912, YK919, YL401, YM652
39	Follow-On	Nov 11/2008	YL427-YL429
40	Follow-On	Feb 09/2009	YK918
41		May 11/2009	
42		Aug 10/2009	

BOEING REVISION RECORD

D280A103

Page 2
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
21-1133	Nov 09/2001	S	YC001-YC013 YC015-YC022	21-51-12 21-51-22 24-61-22 24-61-24	AIR CONDITIONING - ZONE TEMPERATURE LIGHTS - CIRCUIT BREAKER CHANGE TO THE AIR CONDITIONING ACCESSORY UNIT
23-1107	Jan 26/2000	C	YC001-YC007	23-71-01 33-12-11 73-22-31	COMMUNICATIONS - AUDIO AND VIDEO MONITORING - COCKPIT VOICE RECORDER MANUAL - ON SWITCH INSTALLATION
23-1139 R01	May 13/2008	S	YC001-YC013	23-31-01 23-34-01 24-61-24 24-61-32	COMMUNICATIONS - PASSENGER ADDRESS AND ENTERTAINMENT - INSTALLATION OF THE PASSENGER ADDRESS AMPLIFIER AND IN-FLIGHT ENTERTAINMENT AUDIO CIRCUIT BREAKERS
23-1155	Nov 09/2001	C	YC001-YC002	23-31-06	COMMUNICATIONS - PASSENGER ADDRESS - AND ENTERTAINMENT - ANNOUNCEMENT AND BOARDING MUSIC CONTROL PANEL - MUSIC LOW VOLUME WIRING CHANGE
23-1299	May 13/2008	S	YK907-YK909	23-11-11 23-11-21 23-12-41 23-22-11 24-51-13 31-31-17	COMMUNICATIONS - HIGH FREQUENCY (HF) COMMUNICATION SYSTEM - INSTALLATION OF HF TRANSCEIVER AND HF ANTENNA COUPLER INTO EXISTING PROVISIONS
23A1169 R02	Jul 17/2007	S	YC012	23-32-31 23-32-32 23-32-41 23-32-42 23-32-43 23-32-51 23-32-52 23-32-53 23-32-61 23-32-62 23-32-63	COMMUNICATIONS - PASSENGER ADDRESS
23A1170 R02	Aug 13/2008	C	YC001-YC013 YC015-YC016	23-12-11 23-12-21 91-01-07	COMMUNICATIONS - VHF COMMUNICATION SYSTEM - VHF-1 AND VHF- 2 ANTENNAS INTERCHANGE

A = Added, R = Revised, D = Deleted

SERVICE BULLETIN LIST

D280A103

Page 1
May 11/2009



737-700/800

WIRING DIAGRAM MANUAL

Number	Incorporated	Started/Completed	Effectivity	ATA	Subject
24-1142	Nov 09/2001	S	YC001-YC013 YC015-YC018	24-61-22 24-61-61 32-64-11	ELECTRICAL POWER - DISTRIBUTION - CARGO LEADER SYSTEM CIRCUIT BREAKER CHANGE
24-1176 R01	May 11/2009	S	YM643	24-11-11 24-11-21 24-21-11 24-21-21 24-24-11 24-24-21 77-12-21	ELECTRICAL POWER - AC GENERATION SYSTEM - INSPECTION AND RE-PIN WIRES AT TWO WING-TO- STRUT ELECTRICAL CONNECTORS AT EACH ENGINE STRUT BRACKET
24-1180	May 13/2008	S	YK907-YK909	24-51-15 25-29-11	ELECTRICAL POWER - LOAD SHED RELAY - INSTALLATION OF TWO 110V AC, 60 HZ AUXILLARY ELECTRICAL POWER OUTLETS IN THE FLIGHT DECK
R 24A1141 R02	Oct 15/2007	S	YC001-YC007	33-12-11 33-12-12	ELECTRICAL POWER - GENERAL - P5 OVERHEAD PANEL - BRACKET REPLACEMENT AND WIRE INSTALLATION
A 24A1141 R02	Aug 10/2009	S	YC008-YC011	33-12-11 33-12-12	ELECTRICAL POWER - GENERAL - P5 OVERHEAD PANEL - BRACKET REPLACEMENT AND WIRE INSTALLATION
25-1542	Sep 03/2004	S	YC001-YC013 YC016-YC018 YC020-YC026 YC028-YC030	23-32-11 23-32-12 23-32-13 23-32-21 23-32-31 23-32-51 33-25-21 33-51-12 33-51-21	EQUIPMENT AND FURNISHINGS - PASSENGER COMPARTMENT - G7 GALLEY REMOVAL
26A1083 R01	Aug 13/2008	C	YC001-YC007	24-61-21 24-61-23 24-61-51 26-11-21 26-11-31 26-16-21 26-16-22 26-23-11 31-31-15 33-11-33 33-18-62 33-18-64	FIRE DETECTION - GENERAL - CARGO COMPARTMENT SMOKE DETECTION AND FIRE EXTINGUISHING INSTALLATION -737-600/- 700/-800 AIRPLANES

A = Added, R = Revised, D = Deleted

SERVICE BULLETIN LIST

D280A103

Page 2
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
27-1220	Jan 26/2000	C	YC001-YC007	27-31-11 27-31-37 27-32-11 27-32-21 27-32-31	FLIGHT CONTROLS - ELEVATOR AND TAB - CHANGES TO THE STALL IDENTIFICATION SYSTEMS TO SUPPORT THE EQUIREMENTS OF THE JAA
27-1247	Mar 31/2005	S	YC001-YC013 YC015-YC026 YC028-YC029	27-23-11 27-25-11	FLIGHT CONTROLS - RUDDER AND RUDDER TRIM CONTROL SYSTEM - WIRE PROVISIONS FOR RUDDER SYSTEM ENHANCEMENT
27-1253 R03	Feb 09/2009	C	YC001-YC013 YC015-YC026 YC028-YC030	22-23-11 24-61-24 27-23-11 27-25-11 29-35-11 91-04-15	FLIGHT CONTROLS - RUDDER AND RUDDER TRIM CONTROL SYSTEM - INSTALLATION OF AN ENHANCED RUDDER CONTROL SYSTEM (RSEP)
27-1262	May 11/2009	C	YC001-YC013 YC015-YC026 YC028-YC030		FLIGHT CONTROLS - RUDDER AND RUDDER TRIM CONTROL SYSTEM - REPLACEMENT OF THE P5- 3 PANEL (RSEP)
27-1285	Feb 09/2009	C	YK907	27-62-11	FLIGHT CONTROLS - SPEEDBRAKE CONTROL SYSTEM - "SPEED BRAKE DO NOT ARM" LIGHT NUISANCE INDICATION CORRECTION
27A1219	Oct 27/1999	C	YC001-YC007	27-53-11	FLIGHT CONTROLS - FLAP/ SLAT ELECTRONICS UNIT - REVISION TO THE AIR/ GROUND SIGNAL SOURCE
27A1228 R01	Jan 26/2000	C	YC001-YC011	27-41-12	FLIGHT CONTROLS - TRAILING EDGE FLAP AND HORIZONTAL STABILIZER TRIM SYSTEMS - S245 FLAP LIMIT SWITCH INSPECTION AND R850 RELAY INSTALLATION

A = Added, R = Revised, D = Deleted

SERVICE BULLETIN LIST

Page 3
Aug 10/2009

D280A103



737-700/800

WIRING DIAGRAM MANUAL

Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
28-1194 R02	Oct 15/2007	S	YC001-YC013 YC015-YC026 YC028-YC030	24-21-11 24-21-21 24-24-11 24-24-21 26-12-11 27-81-11 28-23-11 29-11-11 30-11-11 33-45-11 74-11-11 77-31-11 77-31-21	FUEL - FUEL BOOST PUMP - RELOCATION OF CONNECTOR PINS AT WING/BODY CONNECTORS
28-1257 R01	Aug 13/2008	S	YC001-YC013 YC015-YC026 YC028-YC030 YK901	28-23-11 91-02-05	FUEL - ENGINE FUEL FEED SYSTEM - BOOST PUMP CONTROL RELAY GROUND LOCATION CHANGE
R 30-1047	Oct 19/2000	C	YC001-YC007	30-41-11 30-41-12 31-52-56 33-18-34	ICE AND RAIN PROTECTION - WINDOWS, WINDSHIELDS AND DOORS - NO.4 AND NO.5 WINDOW HEATING WIRING AND INDICATION CHANGE
31-1136	Jul 16/2001	C	YC001-YC011	22-11-53 23-27-11 23-32-21 31-32-15 31-35-01 31-62-15 31-62-25 34-61-18 34-61-22 34-61-26 49-62-11	INDICATING/RECORDING SYSTEMS - DATA LOAD SELECTOR SWITCH REPLACEMENT
31-1136 R01	Apr 18/2006	C	YC001-YC011	22-11-53	INDICATING/RECORDING SYSTEMS - DATA LOAD SELECTOR SWITCH REPLACEMENT
31-1136 R02	Jul 17/2007	S	YC001-YC011	22-11-53	INDICATING/RECORDING SYSTEMS - DATA LOAD SELECTOR SWITCH REPLACEMENT
R 31-1185	May 09/2002	C	YC001-YC013 YC015-YC019	34-61-19	INDICATING AND RECORDING SYSTEMS - CENTRAL DISPLAY SYSTEMS - REPLACEMENT OF COMMON DISPLAY SYSTEM SOFTWARE
31-1267	Apr 18/2007	C	YC001-YC013 YC015-YC026 YC028-YC030	23-22-11 31-62-41	COMMON DISPLAY SYSTEM (CDS) - OPTIONAL FEATURES - ACTIVATION

A = Added, R = Revised, D = Deleted

SERVICE BULLETIN LIST



737-700/800

WIRING DIAGRAM MANUAL

Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
31-1284	Feb 12/2008	C	YC001-YC013 YC015-YC026 YC028-YC030	26-11-21 31-52-11 33-18-51	INDICATING/RECORDING SYSTEMS - MASTER CAUTION - ADDITION OF QUICK DISCONNECTS TO THE MASTER CAUTION AND FIRE WARNING SWITCHLIGHT WIRES
31-1362	Feb 09/2009	S	YK918	31-35-03	INDICATING/RECORDING SYSTEMS - RECORDERS - WIRING REVISION FOR TELEDYNE WIRELESS QUICK ACCESS RECORDER
31-1362	Nov 11/2008	S	YL421-YL423	31-35-03	INDICATING/RECORDING SYSTEMS - RECORDERS - WIRING REVISION FOR TELEDYNE WIRELESS QUICK ACCESS RECORDER
R 31-1362	Aug 10/2009	C	YM645-YM646	31-35-03	INDICATING/RECORDING SYSTEMS - RECORDERS - WIRING REVISION FOR TELEDYNE WIRELESS QUICK ACCESS RECORDER
33-1116	Jul 16/2001	C	YC001-YC007	24-53-11	LIGHTS - PASSENGER COMPARTMENT LIGHTS - PASSENGER SERVICE UNIT NO-SMOKING FASTEN SEAT BELT SIGN - WIRING CHANGE
34-1461	Jan 26/2000	C	YC001-YC007	34-58-21	NAVIGATION - DEPENDENT POSITION DETERMINING - GLOBAL POSITIONING SYSTEM (GPS) MASTER CAUTION DISPLAY CHANGE
34-1767 R01	Apr 18/2006	C	YC001-YC013 YC015-YC026 YC028-YC030	22-11-51 34-21-13 34-21-23 34-53-11 34-53-21 34-58-11 34-58-21 34-61-14	NAVIGATION - DEPENDENT POSITION DETERMINING - AIR TRAFFIC CONTROL (ATC) SYSTEM - WIRING PROVISIONS FOR FUTURE ACTIVATION OF ELEMENTARY SURVEILLANCE (ELS), ENHANCED SURVEILLANCE (EHS) AND EXTENDED SQUITTER (ES) PARAMETERS

A = Added, R = Revised, D = Deleted

SERVICE BULLETIN LIST

Page 5
Aug 10/2009

D280A103



737-700/800

WIRING DIAGRAM MANUAL

Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
34-1915	Apr 18/2007	C	YC008-YC013 YC015-YC026 YC028-YC030	34-49-11	NAVIGATION - INDEPENDENT POSITION DETERMINING SYSTEMS- GROUND PROXIMITY WARNING SYSTEMS (GPWS)-ENHANCED GPWS PEAKS AND OBSTACLES OPTION ACTIVATION
34-1916	Apr 18/2007	C	YC001-YC013 YC015-YC026 YC028-YC030	34-61-19	FLIGHT MANAGEMENT COMPUTER SYSTEM (FMCS) - OPTIONAL FEATURES - REVISION
34-2082	Jan 14/2008	S	YK907-YK909	34-49-11	NAVIGATION - ENHANCED GROUND PROXIMITY WARNING SYSTEM - ALTITUDE CALLOUT - REVISION
34-2083	Jan 14/2008	S	YC001-YC002 YC010-YC013 YC015-YC016 YK901-YK909	34-61-19	NAVIGATION - FLIGHT MANAGEMENT COMPUTER SYSTEM - CHANGE FROM JAA TO FAA FLIGHT RULES AND IN TRANSPORT CANADA FORMAT
34-2107 R01	Nov 11/2008	S	YC003-YC004 YC008-YC009 YC017-YC026 YC028-YC030 YL421-YL426	34-61-19	NAVIGATION - FLIGHT MANAGEMENT COMPUTER SYSTEM - CHANGE FROM JAA TO FAA FLIGHT RULES AND IN TRANSPORT CANADA FORMAT
34-2107 R01	Feb 09/2009	S	YK918	34-61-19	NAVIGATION - FLIGHT MANAGEMENT COMPUTER SYSTEM - CHANGE FROM JAA TO FAA FLIGHT RULES AND IN TRANSPORT CANADA FORMAT
A 34-2194	Aug 10/2009	S	YC028-YC029	33-11-41 33-18-62 34-57-21	NAVIGATION - AUTOMATIC DIRECTION FINDER SYSTEM - SECOND AUTOMATIC DIRECTION FINDER INSTALLATION
R 56-1017 R01	Aug 10/2009	C	YC001-YC013 YC015-YC026 YC028-YC030	30-41-11 30-41-12	WINDOWS - FLIGHT COMPARTMENT - CONTROL CABIN FIXED WINDOWS - DELETION OF NUMBER 4 AND NUMBER 5 WINDOWS

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SERVICE BULLETIN LIST

D280A103

Page 6
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
71-1461	Nov 15/2002	S	YC001-YC013 YC015-YC017	34-61-19	CFM56-7 ENGINES 7B26 RATING
71-1605	May 13/2008	S	YK907-YK909	34-61-19	MODIFY AIRPLANE OPERATING THRUST - CHANGE FROM 7B26 RATING TO A 7B27 RATING
71-1612	May 13/2008	S	YM643 YM645-YM647 YM649 YM651	34-61-19	FMC ENGINE THRUST FOR CFM56-7B22 RATING IN LIEU OF -7B20
77-1455	May 09/2002	S	YC018-YC026	34-61-19	CFM56-7 ENGINE - 7B26 RATING IN LIEU OF 7B27/ B1 RATING
PD 0802664	May 13/2008	S	YC001-YC010 YC012-YC013 YC015-YC026 YC028-YC030	24-61-24 27-32-11 27-32-21 27-62-11 27-62-41 33-43-11 33-44-12	APB RETROFIT WINGLETS
SL-33-042	Sep 24/2003	S	YC021-YC026	33-21-12	SIDEWALL LIGHTING COMPONENTS - CASE GROUNDING

A = Added, R = Revised, D = Deleted

SERVICE BULLETIN LIST

D280A103

Page 7
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

Number	Incorporated	Started/Completed	Effectivity	ATA	Subject
230106	Oct 20/2006	C	YC001-YC013 YC015-YC026 YC028-YC030	23-70-11 24-61-23 33-11-41	COCKPIT DOOR SURVEILLANCE SYSTEM
737-EB34-0155 R04	Aug 07/2002	C	YC001-YC007	22-11-51 24-61-21 27-32-12 27-32-22 31-62-15 31-62-25 33-11-21 33-18-22 34-21-13 34-21-14 34-21-23 34-21-24 34-31-11 34-31-21 34-33-11 34-33-21 34-41-11 34-49-11 34-58-11 34-58-21 34-61-15	INSTALLATION OF MARK V ENHANCED GROUND PROXIMITY WARNING SYSTEM (EGPWS)
737-EB34-0192	Aug 07/2002	C	YC001-YC007	34-21-14 34-21-24 34-41-11 34-49-11 34-53-11 34-53-21	NAVIGATION - WXR SYSTEM, PWS PERIPHERAL SYSTEMS CONNECTIONS
737-EB34-0193	Nov 15/2002	C	YC001-YC007	34-41-11	NAVIGATION - WXR PWS SYSTEMS ACTIVATION
737-EB34-0428	May 11/2009	C	YC001-YC007	34-49-11	CHANGE EGPWS PROGRAM PIN STRAPPING
EO 23-80059-6	Oct 15/2007	S	YC001-YC013 YC015-YC026 YC028-YC030	23-12-31 23-27-14 23-27-16 34-31-11 34-53-11 34-53-21 34-58-11	WIRE PROVISION FOR ACARS VDL MODE 2 OPERATION
EO 23-80113-8	Feb 09/2009	C	YK907-YK909	23-24-11	ELT CODING
EO 31-80019-8	Oct 20/2006	C	YC001-YC013 YC015-YC026 YC028-YC030		ADL INSTALLATION
EO B7378-33-04-01	Sep 03/2004	S	YC001-YC013 YC015-YC026 YC028-YC030		CHANGE OF EMERGENCY LIGHT POWER SUPPLIES
A MR 39273-4	Aug 10/2009	C	YC005-YC007	23-11-11	ADD HF COM SYSTEM TO DOCUMENTATION

A = Added, R = Revised, D = Deleted

CUSTOMER CHANGE LIST

D280A103

Page 1
Aug 10/2009



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
24-52-11	115V AC GROUND SERVICE BUS
24-51-12	115V AC MAIN BUS 1
24-51-22	115V AC MAIN BUS 2
24-54-11	115V AC STANDBY BUS
24-51-11	115V AC TRANSFER BUS 1
24-51-15	115V AC TRANSFER BUS 1 IFE/PASS SEAT
24-51-13	115V AC TRANSFER BUS 1 SECTION 1
24-51-14	115V AC TRANSFER BUS 1 SECTION 2
24-51-21	115V AC TRANSFER BUS 2
24-51-25	115V AC TRANSFER BUS 2 IFE/PASS SEAT
24-51-23	115V AC TRANSFER BUS 2 SECTION 1
24-51-24	115V AC TRANSFER BUS 2 SECTION 2
24-53-11	28V AC BUSES
24-61-11	28V DC BUSES
24-61-31	28V DC BUSES BATTERY BUS SECTION 1
24-61-32	28V DC BUSES BATTERY BUS SECTION 2
24-61-33	28V DC BUSES BATTERY BUS SECTION 3
24-61-21	28V DC BUSES BUS 1 SECTION 1
24-61-22	28V DC BUSES BUS 1 SECTION 2
24-61-23	28V DC BUSES BUS 2 SECTION 1
24-61-24	28V DC BUSES BUS 2 SECTION 2
24-61-61	28V DC BUSES GROUND SERVICE BUS
24-61-51	28V DC BUSES HOT BATTERY BUS
24-61-41	28V DC BUSES STANDBY BUS SECTION 1
24-61-42	28V DC BUSES STANDBY BUS SECTION 2
24-61-52	28V DC BUSES SWITCH HOT BATTERY BUS
24-28-11	AC INDICATION P5-13
24-28-21	AC SYSTEM GENERATOR AND APU INDICATION P5-4

ALPHABETICAL INDEX

D280A103

Page 1
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
24-23-31	AC TIE BUS
23-27-13	ACARS (724B) - CONTROL AND DISPLAY
23-27-12	ACARS (724B) - DFDAU AND E11 INTERFACES
23-27-14	ACARS (724B) - FMC, PRINTER AND DISCRETE INTERFACES
23-27-11	ACARS (724B) - POWER, COMM AND ANNUNCIATION INTERFACES
23-27-16	ACARS (724B) - REGISTRY AND AIRLINE ID CODE
23-27-15	ACARS (724B) SATCOM AND AIRSHOW INTERFACES
34-57-11	ADF-1
34-57-21	ADF-2
34-21-16	ADIRS - NO COOLING AND "ON DC" OPERATION WARNING
91-04-15	AFT BODY BRACKETS
26-16-22	AFT CARGO COMPARTMENT SMOKE DETECTION
27-18-11	AILERON POSITION INDICATION
27-11-11	AILERON TRIM CONTROL
21-61-51	AIR CONDITIONING TEMPERATURE INDICATION
34-21-14	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT ADR OUTPUTS
34-21-11	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT CONTROL & WARNING
34-21-13	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT IR OUTPUTS
34-21-12	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT SYSTEM INPUTS
34-21-24	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - RIGHT ADR OUTPUTS
34-21-21	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - RIGHT CONTROL & WARNING
34-21-23	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - RIGHT IR OUTPUTS
34-21-22	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - RIGHT SYSTEM INPUTS
34-21-15	AIR DATA INERTIAL REFERENCE SYSTEM - IR SIGNAL SWITCHING
34-16-11	AIR DATA INERTIAL REFERENCE SYSTEM OVERSPEED TEST LEFT
34-16-21	AIR DATA INERTIAL REFERENCE SYSTEM OVERSPEED TEST RIGHT
32-31-11	AIR/GND SYSTEM 1 & LEVER LATCH
32-31-12	AIR/GND SYSTEM 2 AND NOSE GEAR GROUND SENSING RELAYS

ALPHABETICAL INDEX

D280A103

Page 2
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
91-00-01	AIRPLANE STATION BODY & VERTICAL STABLISER
91-00-02	AIRPLANE STATION WING & HORIZONTAL STABLIZER
32-35-11	ALTERNATE LANDING GEAR EXTENSION SYSTEM
27-53-11	ALTERNATE TRAILING AND LEADING EDGE FLAP DRIVE
91-01-07	ANTENNA LOCATION
32-41-11	ANTISKID SYSTEM
49-52-31	APU BLEED AIR AND SURGE CONTROL SYSTEM
49-62-11	APU CONTROL- AIRPLANE INTERFACE
49-62-12	APU CONTROL- APU INTERFACE
49-71-21	APU EGT SYSTEM
26-11-31	APU FIRE DETECTION
49-41-11	APU IGNITION AND STARTING SYSTEM
49-94-21	APU OIL SYSTEM
23-27-35	ARINC 716 VHF 3/ SINGLE FMC 702 INTERFACES
34-53-31	ATC ANTENNA SELECT
34-53-11	ATC TRANSPONDER 1
34-53-21	ATC TRANSPONDER 2
33-26-11	ATTENDANT WORK LIGHTS
23-34-02	AUDIO ENTERTAINMENT DISTRIBUTION
23-34-01	AUDIO ENTERTAINMENT SYSTEM POWER AND CONTROL
23-51-11	AUDIO INTEGRATING CAPTAIN
23-51-51	AUDIO INTEGRATING ELECTRONIC SHELF
23-51-21	AUDIO INTEGRATING FIRST OFFICER
23-51-31	AUDIO INTEGRATING OBSERVER
31-53-11	AURAL WARNING - TAKEOFF WARNING
31-51-11	AURAL WARNING SYSTEM
32-42-11	AUTOBRAKE SYSTEM
27-62-11	AUTOMATIC GROUND SPEEDBRAKE CONTROL

ALPHABETICAL INDEX

D280A103

Page 3
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
24-28-41	AUTOMATIC LOAD SHED GALLEYS AND MAIN BUSES
27-83-11	AUTOSLAT SYSTEM NO. 1
27-83-21	AUTOSLAT SYSTEM NO. 2
22-31-22	AUTOTHROTTLE SYSTEM - DIGITAL INPUTS FROM SMYDC'S AND RA'S
22-31-51	AUTOTHROTTLE SYSTEM - ENGAGE/DISENGAGE
22-31-52	AUTOTHROTTLE SYSTEM - MODE ANNUNCIATION
22-31-31	AUTOTHROTTLE SYSTEM - SERVO MOTOR 1
22-31-41	AUTOTHROTTLE SYSTEM - SERVO MOTOR 2
22-31-11	AUTOTHROTTLE SYSTEM- POWER, TOGA, PROGRAM PINS AND TEST BUSSES
24-31-11	BATTERY AND BATTERY CHARGER
28-21-21	BATTERY AND CONTROL POWER ENGINE SPAR AND APU FUEL VALVES
24-31-12	BATTERY BUS
36-21-11	BLEED AIR PRESSURE INDICATION
36-11-11	BLEED AIR VALVE CONTROL
24-21-52	BUS POWER CONTROL UNIT BLOCK (G15)
21-25-11	CABIN AIR RECIRCULATION SYSTEM
23-42-11	CABIN INTERPHONE
23-42-12	CABIN INTERPHONE - ATTENDANT HANDSETS
21-33-11	CABIN PRESSURE WARNING
33-11-31	CAPTAIN'S AND FIRST OFFICER'S CENTER INSTR PANEL LIGHTING
33-11-11	CAPTAIN'S INSTRUMENT PANEL LIGHTING
26-23-11	CARGO COMPARTMENT FIRE EXTINGUISHERS
25-51-21	CARGO LOADER SYSTEM AFT CARGO COMPARTMENT
31-62-13	CDS - CONTROL PANEL INTERFACES - CAPTAINS
31-62-23	CDS - CONTROL PANEL INTERFACES - F/O
31-62-15	CDS - DEU 1 AVIONICS INTERFACES
31-62-14	CDS - DEU 1 ENGINE HYDRAULIC, APU AND FUEL INTERFACES
31-62-25	CDS - DEU 2 AVIONICS INTERFACES

ALPHABETICAL INDEX

D280A103

Page 4
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
31-62-24	CDS - DEU 2 ENGINE HYDRAULIC, APU AND FUEL INTERFACES
31-62-41	CDS - DEU SELECT AND PROGRAM PINS
31-62-11	CDS - POWER DISTRIBUTION AND INSTRUMENT LIGHTING CAPTAINS
31-62-21	CDS - POWER DISTRIBUTION AND INSTRUMENT LIGHTING FIRST OFFICER
31-62-12	CDS - VIDEO COAX SPLITTERS 1 AND 3 DU STATUS
31-62-22	CDS - VIDEO COAX SPLITTERS 2 AND 4 DU STATUS
31-62-42	CDS - VIDEO MONITORING
34-61-23	CDU/MCDU INTERFACE
34-61-26	CDU/MCDU/DATA LOADER INTERFACE
33-22-22	CEILING LIGHTS - LEFT AFT
33-22-21	CEILING LIGHTS - LEFT FORWARD
33-22-32	CEILING LIGHTS - RIGHT AFT
33-22-31	CEILING LIGHTS - RIGHT FORWARD
33-22-11	CEILING LIGHTS CONTROL
91-02-00	CIRCUIT BREAKER LIST
23-27-38	CMU 000I, CREW ADVISORIES AND OUTPUT 8
23-27-39	CMU INTERFACES - DATA LOADER PROGRAM PINS
23-27-32	CMU OUTPUT 1 INTERFACES - FMC 1/MCDU 1/PRINTER
23-27-33	CMU OUTPUT 2 INTERFACES - FMC 2/MCDU 2/DFDAU/MIDU
23-27-37	CMU OUTPUT 6/7 INTERFACES - COMMUNICATIONS
23-27-31	CMU POWER & CONTROL
23-71-01	COCKPIT VOICE RECORDER
52-51-11	CONTROL CABIN DOOR LOCK
35-11-11	CREW OXYGEN SYSTEM
31-32-15	DATA LOADER INTERFACE
24-33-13	DC BUS INDICATION DFDAU
24-33-11	DC VOLTAGE AND CURRENT INDICATIONS
22-12-31	DFCS - A A/P PITCH SENSORS AND ACTUATORS

ALPHABETICAL INDEX

D280A103

Page 5
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
22-11-31	DFCS - A AND B A/P ROLL SENSORS AND ACTUATORS
22-11-11	DFCS - A AND B FCC POWER AND 26V AC EXCITATION
22-11-75	DFCS - A AND B OPTION PINS
22-13-11	DFCS - A AND B SPEED AND STABILIZER TRIM
22-11-12	DFCS - A AND B SYSTEM INTERLOCKS
22-14-11	DFCS - ANNUNCIATION AND WARNING
22-12-41	DFCS - B A/P PITCH SENSORS AND ACTUATORS
22-11-53	DFCS - DIGITAL BUS INTERFACES - DATA LOADER
22-11-51	DFCS - DIGITAL BUS INTERFACES - OUTPUT
22-11-14	DFCS - INTERSYSTEM SWITCHING
22-18-11	DFCS - MACH TRIM
22-11-81	DFCS - RUDDER COMMAND AND CONTROL
22-11-18	DFCS INTERSYSTEM SWITCHING - VHF NAV ANTENNAS
27-81-41	DFDAU AND TEST CONNECTOR INTERFACE
24-24-31	DIFFERENTIAL CURRENT PROTECTION APU GEN
24-24-11	DIFFERENTIAL CURRENT PROTECTION GEN NO. 1
24-24-21	DIFFERENTIAL CURRENT PROTECTION GEN NO.2
31-35-02	DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE
31-35-04	DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE
31-35-03	DIGITAL FLIGHT DATA RECORDER SYSTEM - ACMS INTERFACE 3
31-31-14	DIGITAL FLIGHT DATA RECORDER SYSTEM - ANALOG INTERFACE
31-35-01	DIGITAL FLIGHT DATA RECORDER SYSTEM - DATA LOADER INTERFACE
31-31-13	DIGITAL FLIGHT DATA RECORDER SYSTEM - DIGITAL INTERFACE
31-31-11	DIGITAL FLIGHT DATA RECORDER SYSTEM - INTERFACE
31-31-16	DIGITAL FLIGHT DATA RECORDER SYSTEM AIRPLANE CODING
31-31-15	DIGITAL FLIGHT DATA RECORDER SYSTEM DISCRETE INTERFACE
31-31-17	DIGITAL FLIGHT DATA RECORDER SYSTEM MANDATORY OPTIONS
91-04-00	DISCONNECT BRACKET LIST

ALPHABETICAL INDEX

D280A103

Page 6
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
91-01-06	DISCONNECT BRACKET LOCATION
34-55-11	DME NO. 1
34-55-21	DME NO. 2
33-14-12	DOME LTG, CONTROL STAND FLOOD LTG, STBY COMPASS LTG, & C/B PNL LTG
21-42-11	DOOR AREA HEATERS
52-71-13	DOOR WARNING OVERWING - LEFT OVERWING
52-71-14	DOOR WARNING OVERWING - RIGHT OVERWING
52-71-12	DOOR WARNING SYSTEM - CARGO AND EQUIPMENT
52-71-11	DOOR WARNING SYSTEM - ENTRY AND SERVICE
30-71-11	DRAIN HEATERS
91-03-01	E1 RACK
91-04-04	E1 SHELF BRACKETS
91-03-02	E2 RACK
91-04-05	E2-1 AND E2-2 BRACKETS
91-04-06	E3 BRACKETS
91-03-03	E3 RACK
91-03-04	E4 RACK
91-04-07	E4-1 AND E4-2 BRACKETS
91-04-08	E5 BRACKETS
91-03-05	E5 RACK
91-03-06	E6 RACK
91-04-11	E8 BRACKET
91-03-08	E8 RACK
49-62-51	ECU PINOUT
29-11-12	ELECTRIC HYDRAULIC PUMP CONTROL
31-22-11	ELECTRONIC CLOCK
73-21-12	ELECTRONIC ENGINE CONTROL ALTERNATE MODE
73-22-11	ELECTRONIC ENGINE CONTROL ELECTRICAL POWER

ALPHABETICAL INDEX

D280A103

Page 7
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
27-31-37	ELEVATOR FEEL DIFFERENTIAL PRESSURE
27-38-11	ELEVATOR POSITION INDICATION
27-31-11	ELEVATOR TAB CONTROL
33-51-21	EMERGENCY EXIT LIGHT - FWD - FLOOR PROXIMITY
33-51-14	EMERGENCY EXIT LIGHTS - AFT
33-51-22	EMERGENCY EXIT LIGHTS - AFT - PROXIMITY
33-51-11	EMERGENCY EXIT LIGHTS - CONTROL
33-51-12	EMERGENCY EXIT LIGHTS - FORWARD
33-51-13	EMERGENCY EXIT LIGHTS - MID
23-24-11	EMERGENCY LOCATOR TRANSMITTER
73-24-11	ENGINE 1 DATABUS OUTPUT
26-11-11	ENGINE 1 FIRE DETECTION
76-21-11	ENGINE 1 FUEL CONDITION CONTROL
73-25-11	ENGINE 1 FUEL CONTROL
30-21-11	ENGINE 1 NACELLE ANTI-ICE
78-34-11	ENGINE 1 THRUST REVERSER CONTROL
78-36-11	ENGINE 1 THRUST REVERSER FLIGHT DECK INDICATION
78-35-11	ENGINE 1 THRUST REVERSER POSITION / THRUST LEVER INTERLOCK
78-32-51	ENGINE 1 THRUST REVERSER SYNCHRONOUS SHAFT LOCKS
75-31-11	ENGINE 1 TURBINE CLEARANCE / TEMPERATURE
75-31-12	ENGINE 1 VARIABLE STATOR VANE / BLEED CONTROL
77-31-11	ENGINE 1 VIBRATION MONITORING SYSTEM
73-24-21	ENGINE 2 DATABUS OUTPUT
26-11-21	ENGINE 2 FIRE DETECTION
76-21-21	ENGINE 2 FUEL CONDITION CONTROL
73-25-21	ENGINE 2 FUEL CONTROL
30-21-21	ENGINE 2 NACELLE ANTI-ICE
78-34-21	ENGINE 2 THRUST REVERSER CONTROL

ALPHABETICAL INDEX

D280A103

Page 8
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
78-36-21	ENGINE 2 THRUST REVERSER FLIGHT DECK INDICATION
78-35-21	ENGINE 2 THRUST REVERSER POSITION / THRUST LEVER INTERLOCK
78-32-61	ENGINE 2 THRUST REVERSER SYNCHRONOUS SHAFT LOCKS
75-31-21	ENGINE 2 TURBINE CLEARANCE / TEMPERATURE
75-31-22	ENGINE 2 VARIABLE STATOR VANE / BLEED CONTROL
77-31-21	ENGINE 2 VIBRATION MONITORING SYSTEM
26-21-11	ENGINE AND APU FIRE EXTINGUISHING SYSTEM
73-21-31	ENGINE BLEED AIR THRUST CONTROL
73-32-11	ENGINE CONTROL EEC FAULT INDICATION
73-24-12	ENGINE DATABUS INPUT
77-21-11	ENGINE EXHAUST GAS TEMPERATURE INDICATION
73-21-11	ENGINE EXTERNAL RESET AND CONFIGURATION CONTROL
28-21-11	ENGINE FUEL SHUT-OFF VALVES
73-31-11	ENGINE FUEL SYSTEM INDICATION
29-11-11	ENGINE HYDRAULIC PUMP CONTROL
73-23-11	ENGINE IDLE CONTROL
74-31-11	ENGINE IGNITION CONTROL
74-11-11	ENGINE IGNITION POWER
77-12-11	ENGINE N1 SPEED INDICATION
77-12-21	ENGINE N2 SPEED INDICATION
79-33-11	ENGINE OIL FILTER BYPASS WARNING
79-32-11	ENGINE OIL PRESSURE INDICATION
79-31-11	ENGINE OIL QUANTITY INDICATION
79-34-11	ENGINE OIL TEMPERATURE INDICATION
73-22-31	ENGINE RUNNING CONTROL
80-11-11	ENGINE STARTING SYSTEM
73-21-21	ENGINE THRUST-LEVER-ANGLE RESOLVER
33-29-11	ENTRY LIGHTS

ALPHABETICAL INDEX

D280A103

Page 9
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
21-27-21	EQUIPMENT COOLING EXHAUST
21-27-31	EQUIPMENT COOLING SUPPLY
	EQUIPMENT LIST
33-44-11	EXTERIOR LIGHTS - ANTICOLLISION - RED
33-44-12	EXTERIOR LIGHTS - ANTICOLLISION - WHITE
33-42-11	EXTERIOR LIGHTS - LANDING
33-43-11	EXTERIOR LIGHTS - POSITION
33-45-11	EXTERIOR LIGHTS - TAXI AND RUNWAY TURNOFF
33-41-11	EXTERIOR LIGHTS - WING SCANNING
33-49-11	EXTERIOR LIGHTS STABILIZER (LOGO) FLOOD LIGHTS
24-41-11	EXTERNAL POWER
33-11-21	FIRST OFFICER'S INSTRUMENT PANEL LIGHTING
27-54-11	FLAP LOAD RELIEF
27-23-14	FLIGHT CONTROL SYS "A" SYS "B" LOW PRESSURE INDICATION
27-23-11	FLIGHT CONTROL SYS "A", SYS "B", AND STANDBY RUDDER CONTROL
91-01-03	FLIGHT DECK PANEL LOCATION
34-61-25	FMC/CMU INTERFACE
34-61-17	FMCS ANALOG DISCRETES
34-61-13	FMCS ARINC 429 INPUTS
34-61-22	FMCS BITE PRINTER AND PORTABLE CDU RECEPTACLES
34-61-14	FMCS GENERAL OUTPUT BUSES FMC-01 AND FMC-02
34-61-24	FMCS INTERFACE WITH ARINC 740/744 PRINTER
34-61-16	FMCS MESSAGE AND FAIL STATUS
34-61-15	FMCS OUTPUT BUSES FMC-08 AND FMC-09
34-61-11	FMCS POWER AND DISPLAY
34-61-19	FMCS PROGRAM PINS
34-61-12	FMCS SWITCHING AND INTER-SYSTEM BUS
34-61-18	FMCS/DATA LOADER INTERFACE

ALPHABETICAL INDEX

D280A103

Page 10
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
34-61-21	FMCS/MCDU INTERFACE WITH ACARS
26-16-21	FORWARD CARGO COMPARTMENT SMOKE DETECTION
91-04-12	FORWARD UPPER FUSELAGE BRACKETS
28-23-11	FUEL BOOST PUMPS
28-43-11	FUEL BOOST PUMPS LOW PRESSURE WARNING LIGHTS
28-22-11	FUEL CROSSFEED VALVE
28-41-11	FUEL QUANTITY
28-42-11	FUEL TEMPERATURE INDICATION
33-26-21	GALLEY LIGHTS
25-31-11	GALLEY POWER
24-23-11	GENERATOR BUS CONTROL NO. 1
24-22-31	GENERATOR CONTROL UNIT APU
24-22-21	GENERATOR CONTROL UNIT NO. 2
24-22-11	GENERATOR CONTROL UNIT NO.1
24-21-51	GENERATOR CONTROL UNITS BLOCK (G10, G12, G14)
24-28-31	GENERATOR DRIVE AND STANDBY POWER-SWITCHING AND INDICATION P5-5
24-21-31	GENERATOR POWER AND REGULATION - APU
24-21-11	GENERATOR POWER AND REGULATION - NO. 1
24-21-21	GENERATOR POWER AND REGULATION - NO. 2
34-58-11	GLOBAL POSITIONING SYSTEM SENSOR UNIT NO.1
34-58-21	GLOBAL POSITIONING SYSTEM SENSOR UNIT NO.2
23-43-11	GROUND CREW CALL
91-21-21	GROUND LIST
34-49-11	GROUND PROXIMITY WARNING
28-44-11	GROUND REFUELING
24-23-51	GROUND SERVICE BUS CONTROL
23-11-11	HF COMMUNICATIONS NO.1 (HF-1)
23-11-21	HF COMMUNICATIONS NO.2 (HF-2)

ALPHABETICAL INDEX

D280A103

Page 11
Oct 20/2006



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
91-21-51	HOOKUP LIST
27-41-11	HORIZONTAL STABILIZER TRIM CONTROL
27-41-12	HORIZONTAL STABILIZER TRIM CONTROL
27-48-11	HORIZONTAL STABILIZER TRIM INDICATION
29-32-11	HYDRAULIC FLUID PRESSURE INDICATION
29-31-11	HYDRAULIC FLUID QUANTITY INDICATION
29-25-11	HYDRAULIC POWER TRANSFER UNIT CONTROL
29-33-11	HYDRAULIC SYSTEM LOW PRESSURE LIGHTS
24-11-11	IDG NO. 1
24-11-21	IDG NO. 2
47-30-11	INERT GAS SYSTEM CONTROL
34-24-15	INTEGRATED STANDBY FLIGHT DISPLAY SYSTEM
33-00-01	LAMP USAGE CHART
32-64-11	LANDING GEAR POSITION INDICATING SYSTEM 1
32-64-12	LANDING GEAR POSITION INDICATING SYSTEM 2
29-23-11	LANDING GEAR TRANSFER VALVE CONTROL
32-64-21	LANDING GEAR WARNING
33-26-31	LAVATORY LIGHTS AND SIGNS
26-14-11	LAVATORY SMOKE DETECTORS
38-21-11	LAVATORY WATER HEATERS
27-81-31	LEADING EDGE FLAPS AND SLATS MASTER INDICATION
27-81-51	LEADING EDGE UNCOMMANDED MOTION PROTECTION
21-51-12	LEFT AIR CONDITIONING PACK CONTROL - AUTO
21-51-13	LEFT AIR CONDITIONING PACK CONTROL STANDBY
27-81-11	LEFT LEADING EDGE FLAP POSITION INDICATION
27-81-12	LEFT LEADING EDGE SLAT POSITION INDICATION
21-51-15	LEFT PACK PROTECTION
21-51-11	LEFT PACK VALVE CONTROL

ALPHABETICAL INDEX

D280A103

Page 12
Apr 18/2007



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
21-51-14	LEFT RAM MODULATION CONTROL
21-51-16	LEFT WATER SEPARATOR 35 DEGREES FAHRENHEIT CONTROL
24-32-11	MAIN DC BUSES
29-34-11	MAIN HYDRAULIC SYSTEM OVERHEAT LIGHTS
91-04-01	MAIN INSTRUMENT PANEL CONTROL STAND BRACKETS
91-04-14	MAIN WHEEL WELL BRACKETS
91-01-02	MAJOR RACEWAYS
33-17-11	MAP, FLIGHT KIT AND READING LIGHTS
34-32-11	MARKER BEACON
91-21-13	MASTER BUNDLE LIST
31-52-52	MASTER CAUTION SYSTEM - AIR CONDITIONG CONTROL, BLEED AIR
31-52-51	MASTER CAUTION SYSTEM - AIR CONDITIONG CONTROL, PACK & TEMP
31-52-55	MASTER CAUTION SYSTEM - ANTI-ICE CONTROL, PITOT HEAT
31-52-56	MASTER CAUTION SYSTEM - ANTI-ICE CONTROL, WINDOW/COWL HEAT
31-52-35	MASTER CAUTION SYSTEM - APU CONTROL
31-52-65	MASTER CAUTION SYSTEM - DOOR WARNING
31-52-31	MASTER CAUTION SYSTEM - ELECTRICAL CONTROL, GENERATOR
31-52-32	MASTER CAUTION SYSTEM - ELECTRICAL CONTROL, POWER BUS
31-52-61	MASTER CAUTION SYSTEM - ENGINE CONTROL
31-52-25	MASTER CAUTION SYSTEM - FLIGHT CONTROLS
31-52-41	MASTER CAUTION SYSTEM - FUEL CONTROL
31-52-21	MASTER CAUTION SYSTEM - HYDRAULIC CONTROL
31-52-71	MASTER CAUTION SYSTEM - IRS CONTROL
31-52-75	MASTER CAUTION SYSTEM - OVERHEAD CONTROL
31-52-45	MASTER CAUTION SYSTEM - OVERHEAT DETECTION
31-52-11	MASTER CAUTION SYSTEM- POWER & CONTROL
33-18-41	MASTER DIM & TEST SYSTEM - AFT OVERHEAD PANEL, GROUP 1
33-18-42	MASTER DIM & TEST SYSTEM - AFT OVERHEAD PANEL, GROUP 2

ALPHABETICAL INDEX

D280A103

Page 13
Apr 18/2007



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
33-18-61	MASTER DIM & TEST SYSTEM - AISLE STAND PANEL, GROUP 1
33-18-62	MASTER DIM & TEST SYSTEM - AISLE STAND PANEL, GROUP 2
33-18-63	MASTER DIM & TEST SYSTEM - AISLE STAND PANEL, GROUP 3
33-18-31	MASTER DIM & TEST SYSTEM - FWD OVERHEAD PANEL, GROUP 1
33-18-32	MASTER DIM & TEST SYSTEM - FWD OVERHEAD PANEL, GROUP 2
33-18-33	MASTER DIM & TEST SYSTEM - FWD OVERHEAD PANEL, GROUP 3
33-18-34	MASTER DIM & TEST SYSTEM - FWD OVERHEAD PANEL, GROUP 4
33-18-35	MASTER DIM & TEST SYSTEM - FWD OVERHEAD PANEL, GROUP 5
33-18-36	MASTER DIM & TEST SYSTEM - FWD OVERHEAD PANEL, GROUP 6
33-18-37	MASTER DIM & TEST SYSTEM - FWD OVERHEAD PANEL, GROUP 7
33-18-51	MASTER DIM & TEST SYSTEM - GLARESHIELD PANEL, GROUP 1
33-18-21	MASTER DIM & TEST SYSTEM - MAIN INSTRUMENT PANEL, CAPT
33-18-23	MASTER DIM & TEST SYSTEM - MAIN INSTRUMENT PANEL, CENTER LEFT
33-18-24	MASTER DIM & TEST SYSTEM - MAIN INSTRUMENT PANEL, CENTER RIGHT
33-18-22	MASTER DIM & TEST SYSTEM - MAIN INSTRUMENT PANEL, F/O
33-18-11	MASTER DIM & TEST SYSTEM - POWER & CONTROL
33-18-64	MASTER DIM & TEST SYSTEM- AISLE STAND PANEL, GROUP 4
34-31-11	MMR - ILS NO. 1
34-31-21	MMR - ILS NO. 2
33-25-41	NO SMOKING/FASTEN SEAT BELT SIGNS - PASS SERVICE UNIT
32-51-11	NOSE GEAR STEERING
23-27-34	OUTPUT BUS 3 INTERFACES - CABIN TERMINALS
21-43-21	OVERBOARD EXHAUST VALVE CONTROL
33-12-11	OVERHEAD INSTRUMENT PANEL LIGHTS - PART ONE
33-12-12	OVERHEAD INSTRUMENT PANEL LIGHTS - PART TWO
35-21-41	OXYGEN DROP - PASS SERVICE UNIT
91-02-01	P1 - MAIN CAPTAIN PANEL
91-03-13	P13 - FORWARD ATTENDANTS PANEL

ALPHABETICAL INDEX

D280A103

Page 14
Apr 18/2007



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
91-03-14	P14 - AFT ATTENDANTS PANEL
91-02-15	P15 - FUELING PANEL
91-02-18	P18 - CIRCUIT BREAKER PANEL
91-02-19	P19 - EXTERNAL POWER RECEPTACLE PANEL
91-02-02	P2 - CENTER INSTRUMENT PANEL
91-02-21	P21 - CAPTAIN AUXILIARY PANEL
91-02-23	P23 - FIRST OFFICER AUXILIARY PANEL
91-02-28	P28 - APU FIRE CONTROL PANEL
91-02-03	P3 - MAIN FIRST OFFICER PANEL
91-02-41	P41 - P1 AND P2 5V LIGHTING PANEL
91-02-42	P42 - P3 5V LIGHTING PANEL
91-02-05	P5 - PILOT OVERHEAD PANEL
91-02-06	P6 - TERMINAL STRIPS, CIRCUIT BREAKER PANELS & EQUIPMENT
91-04-02	P6 AND P18 BRACKETS
91-02-61	P61 - DATA LOADER CONTROL PANEL
91-02-07	P7 - MAIN CENTER PANEL
91-02-08	P8 - AFT ELECTRONIC PANEL
91-02-09	P9 - FORWARD CONSOLE PANEL
91-02-91	P91 - POWER DISTRIBUTION PANEL 1
91-02-92	P92 - POWER DISTRIBUTION PANEL 2
91-01-04	PANEL LOCATIONS
32-44-11	PARKING BRAKE SYSTEM
35-21-21	PASS OXYGEN - LEFT
35-21-31	PASS OXYGEN - RIGHT
35-21-11	PASS OXYGEN CONTROL
33-23-12	PASS READING LIGHTS- LEFT AFT
33-23-11	PASS READING LIGHTS- LEFT FORWARD
33-23-22	PASS READING LIGHTS- RIGHT AFT

ALPHABETICAL INDEX

D280A103

Page 15
Apr 18/2007



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
33-23-21	PASS READING LIGHTS- RIGHT FORWARD
33-25-11	PASS SIGN - CONTROL
33-25-22	PASS SIGNS - LEFT AFT
33-25-21	PASS SIGNS - LEFT FORWARD
33-25-32	PASS SIGNS - RIGHT AFT
33-25-31	PASS SIGNS - RIGHT FORWARD
23-31-02	PASSENGER ADDRESS AND ENTERTAINMENT LEFT SIDE
23-31-03	PASSENGER ADDRESS AND ENTERTAINMENT RIGHT SIDE
23-31-01	PASSENGER ADDRESS ATTENDANTS PANELS
23-31-04	PASSENGER ADDRESS ATTENDANTS SPEAKERS
23-31-06	PASSENGER ADDRESS PRE-RECORDED ANNOUNCEMENTS
33-27-22	PASSENGER AND LAVATORY CALL - LEFT AFT
33-27-21	PASSENGER AND LAVATORY CALL - LEFT FORWARD
33-27-41	PASSENGER AND LAVATORY CALL - PASS SERVICE UNIT
33-27-32	PASSENGER AND LAVATORY CALL - RIGHT AFT
33-27-31	PASSENGER AND LAVATORY CALL - RIGHT FORWARD
33-27-11	PASSENGER AND LAVATORY CALL CONTROL
23-32-21	PASSENGER FLIGHT INFORMATION SYSTEM
33-25-51	PASSENGER NS/FSB SIGN - VIDEO PANEL, LEFT
33-25-61	PASSENGER NS/FSB SIGN - VIDEO PANEL, RIGHT
33-14-11	PILOT'S BACKGROUND LIGHTS
33-11-41	PILOT'S CONTROL STAND LIGHTING
30-31-11	PITOT AND PROBE HEATERS - SYSTEM A
30-31-12	PITOT AND PROBE HEATERS - SYSTEM B
38-41-13	POTABLE WATER PRESSURE SYSTEM
21-31-24	PRESSURIZATION CONTROL - AUTO CHANNEL INTERFACES
21-31-22	PRESSURIZATION CONTROL AUTO 1
21-31-23	PRESSURIZATION CONTROL AUTO 2

ALPHABETICAL INDEX

D280A103

Page 16
Apr 18/2007



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
21-31-25	PRESSURIZATION CONTROL LCD LIGHTING
21-31-11	PRESSURIZATION CONTROL MANUAL MODE
31-33-01	PRINTER INTERFACE
91-06-01	PROGRAM PIN SWITCH/ CODING SWITCH LOCATIONS
91-01-05	RACK AND JUNCTION BOX LOCATION
34-33-11	RADIO ALTIMETER SYSTEM -1
34-33-21	RADIO ALTIMETER SYSTEM -2
33-23-31	READING LIGHTS- PASS SERVICE UNIT
21-51-22	RIGHT AIR CONDITIONING PACK CONTROL - AUTO
21-51-23	RIGHT AIR CONDITIONING PACK CONTROL STANDBY
27-81-21	RIGHT LEADING EDGE FLAP POSITION INDICATION
27-81-22	RIGHT LEADING EDGE SLAT POSITION INDICATION
21-51-25	RIGHT PACK PROTECTION
21-51-21	RIGHT PACK VALVE CONTROL
21-51-24	RIGHT RAM MODULATION CONTROL
21-51-26	RIGHT WATER SEPARATOR 35 DEGREES FAHRENHEIT CONTROL
34-22-11	RMI BEARING AND HEADING
27-25-11	RUDDER AUTHORITY LIMITER
27-28-11	RUDDER TRIM AND POSITION INDICATION
27-21-11	RUDDER TRIM CONTROL
23-22-11	SELCAL
23-41-11	SERVICE INTERPHONE JACKS
33-35-11	SERVICE LIGHTING - ACCESSORY COMPARTMENT
33-33-11	SERVICE LIGHTING - AIR CONDITIONING COMPARTMENT
33-36-12	SERVICE LIGHTING - CARGO COMPARTMENT - AFT
33-36-11	SERVICE LIGHTING - CARGO COMPARTMENT - FWD
33-34-11	SERVICE LIGHTING - EQUIPMENT RACK FORWARD LOWER COMPARTMENT
33-32-11	SERVICE LIGHTING - WHEEL WELLS

ALPHABETICAL INDEX

D280A103

Page 17
Apr 18/2007



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
25-29-11	SERVICE OUTLETS
91-21-12	SPARE WIRE LIST
27-62-21	SPEED BRAKE DEPLOYED INDICATION
27-62-41	SPEEDBRAKE AUTOSTOW
27-62-37	SPEEDBRAKE HANDLE POSITION INDICATION
91-21-31	SPLICE LIST
27-62-14	SPOILER POSITION INDICATION
27-61-11	SPOILER SHUTOFF VALVES
27-32-31	STALL IDENTIFICATION - ELEVATOR FEEL PRESSURE SHIFT
27-32-11	STALL WARNING SYSTEM 1 DIGITAL INTERFACE
27-32-12	STALL WARNING SYSTEM 1 DIGITAL INTERFACE
27-32-21	STALL WARNING SYSTEM 2 DIGITAL INTERFACE
27-32-22	STALL WARNING SYSTEM 2 DIGITAL INTERFACE
34-24-11	STANDBY ATTITUDE - ILS
29-22-11	STANDBY HYDRAULIC PUMP CONTROL
29-35-11	STANDBY HYDRAULIC SYSTEM LOW PRESSURE LIGHTS
33-11-32	STANDBY INSTRUMENT AND PANEL LIGHTS - CAPT, F/O, CENTER PANELS
33-11-33	STANDBY INSTRUMENT AND PANEL LIGHTS - CONTROL STAND
24-34-11	STANDBY POWER
00-00-00	SYMBOLS
34-45-21	TCAS ANTENNA/INTERFACE
34-45-11	TCAS POWER AND DISPLAY
21-61-21	TEMPERATURE CONTROL - CONTROL CABIN
21-61-12	TEMPERATURE CONTROL - FLIGHT DECK ZONE (BACKUP)
21-61-11	TEMPERATURE CONTROL - FLIGHT DECK ZONE (PRIMARY)
21-61-13	TEMPERATURE CONTROL - FWD PASSENGER ZONE
21-61-22	TEMPERATURE CONTROL - PASSENGER CABIN
21-61-15	TEMPERATURE CONTROL - TRIP PRESSURE REGULATION

ALPHABETICAL INDEX

D280A103

Page 18
Apr 18/2007



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
21-61-14	TEMPERATURE CONTROL AFT PASSENGER ZONE
91-21-41	TERMINAL STRIP LIST
27-53-12	TRAILING EDGE ALTERNATE FLAP DRIVE
27-52-11	TRAILING EDGE FLAP POSITION INDICATION
27-53-21	TRAILING EDGE FLAP SKEW DETECTION
27-51-11	TRAILING EDGE UNCOMMANDED MOTION PROTECTION
24-23-21	TRANSFER BUS CONTROL NO. 2
38-32-12	VACUUM WASTE SYSTEM CONTROL
38-32-13	VACUUM WASTE SYSTEM INDICATION
23-12-11	VHF COMMUNICATION NO.1
23-12-21	VHF COMMUNICATION NO.2
23-12-31	VHF COMMUNICATION NO.3
23-12-41	VHF/HF COMMUNICATIONS
23-32-31	VIDEO ENTERTAINMENT SYSTEM TRAY 1 VDU 1
23-32-32	VIDEO ENTERTAINMENT SYSTEM TRAY 1 VDU 2
23-32-33	VIDEO ENTERTAINMENT SYSTEM TRAY 1 VDU 3
23-32-34	VIDEO ENTERTAINMENT SYSTEM TRAY 1 VDU 4
23-32-41	VIDEO ENTERTAINMENT SYSTEM TRAY 2 VDU 5
23-32-42	VIDEO ENTERTAINMENT SYSTEM TRAY 2 VDU 6
23-32-43	VIDEO ENTERTAINMENT SYSTEM TRAY 2 VDU 7
23-32-52	VIDEO ENTERTAINMENT SYSTEM TRAY 3 VDU 10
23-32-53	VIDEO ENTERTAINMENT SYSTEM TRAY 3 VDU 11
23-32-51	VIDEO ENTERTAINMENT SYSTEM TRAY 3 VDU 9
23-32-61	VIDEO ENTERTAINMENT SYSTEM TRAY 4 VDU 13
23-32-62	VIDEO ENTERTAINMENT SYSTEM TRAY 4 VDU 14
23-32-63	VIDEO ENTERTAINMENT SYSTEM TRAY 4 VDU 15
23-32-13	VIDEO HEAD-END INTERFACE
23-70-11	VIDEO SURVEILLANCE SYSTEM

ALPHABETICAL INDEX

D280A103



737-700/800

WIRING DIAGRAM MANUAL

CH-SC-SU	Title
23-32-12	VIDEO SYSTEM AUDIO
23-32-14	VIDEO SYSTEM DISCRETE INPUTS
23-32-11	VIDEO SYSTEM POWER
34-51-11	VOR NO. 1
34-51-21	VOR NO. 2
34-51-41	VOR/ILS INSTRUMENT TRANSFER SWITCHING
38-41-11	WATER QUANTITY INDICATOR
34-41-11	WEATHER RADAR
27-24-11	WHEEL TO RUDDER INTERCONNECT SYSTEM
26-12-11	WHEEL WELL, WING AND LOWER AFT BODY OVERHEAT DETECTION
33-21-12	WINDOW LIGHTS
33-21-11	WINDOW LIGHTS CONTROL
30-41-11	WINDSHIELD HEAT SYSTEM - L. FRONT, R. SIDE AND OPTIONAL L3 WINDOW
30-41-12	WINDSHIELD HEAT SYSTEM - R. FRONT, L. SIDE AND OPTIONAL R3 WINDOW
30-42-11	WINDSHIELD WIPERS
91-04-13	WING AND WING BODY ENGINE WALL BRACKETS
30-11-11	WING THERMAL ANTI-ICE SYSTEM
91-21-11	WIRE LIST
91-01-01	WIRE ZONE
22-23-11	YAW DAMPER ENGAGE INTERLOCKS
22-23-12	YAW DAMPER RUDDER CONTROL

ALPHABETICAL INDEX

D280A103

Page 20
Apr 18/2007



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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.

NOTE: 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

D280A103

Page 1
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

D280A103

Page 2
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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.

GENERAL INFORMATION

D280A103

Page 3
Jul 26/2006



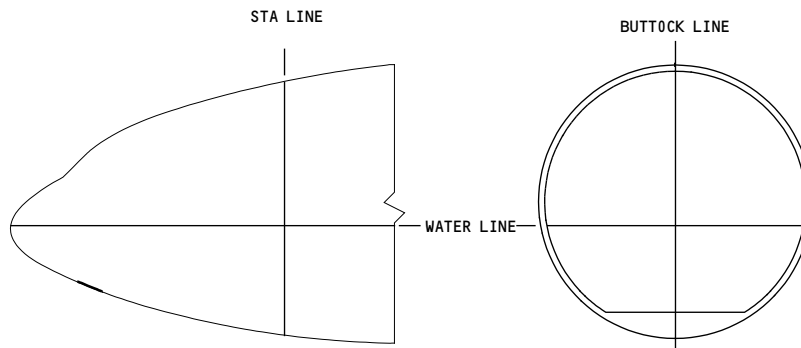
737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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.

GENERAL INFORMATION

D280A103

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Page 4
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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
ACCESS	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

DEFINITIONS

Page 1
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

DEFINITIONS

Page 2
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

DEFINITIONS

Page 3
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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
F/E	Flight Engineer
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

DEFINITIONS

Page 4
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

DEFINITIONS

Page 5
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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
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/CI	Passenger Address/Cabin Interphone
PCH	Patch
PCT	Percent
PDU	Power Drive Unit
PES	Passenger Entertainment System
PFC	Primary Flight Computer

DEFINITIONS

Page 6
Feb 12/2008

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

DEFINITIONS

Page 7
Apr 18/2007

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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, THRS	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

DEFINITIONS

Page 8

Apr 18/2007

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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.

DEFINITIONS

Page 9
Apr 18/2007

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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	Anti-Icing Controls Anti-Icing Equipment De-Icing Boots Ice Detector NESA Windows Pitot Heater
B	Black Box
C	Circuit Breakers Protective Equipment
D	Connectors
E	Equipment Racks
F	Fuel system components
G	Generator
GD	Grounds (Airframe)
H	Overflow Categories, Miscellaneous Bundle Equipment
J	Junction boxes
L	Lamp Assemblies Lights, Lamps

EQUIPMENT LIST

Page 1

Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

EQUIPMENT DESIGNATOR	TYPE OF EQUIPMENT
continued...	
M	Accessory Units Amplifiers Antenna Antenna Tuners Ballast Assemblies Batteries Bells Capacitors Chimes Computers Control Units Directional Gyros Filters Flux Valves Horns ILS Racks Lavatory Assemblies Motors Phase Adaptors Power Units Pumps Receivers Selcal Selcal Chimes Tape Recorders Transmitters Vertical Gyros Water Heaters Other Equipment
N	Indicators
P	Panels
R	Potentiometer Rectifiers Relays Resistors Rheostats
S	Switches

EQUIPMENT LIST

Page 2
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

EQUIPMENT DESIGNATOR	TYPE OF EQUIPMENT
continued...	
SM	Splices (Within a bundle)
SP	Splices (Between bundles)
T	Temperature Bulbs
	Terminal Strips
	Transformer
	Transmitters
TB	Terminal Blocks
V	Valves
Y	Line Replaceable Units

- 1) 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	K, L, M
●Plug Fixture	Q, R, S
Receptacle Identification Fixture:	
●Decal	W
●Adapter	X
●Plug Button	Y
●Cover	Z
Coaxial Tee's, Connector Fixture	T, U, V
Components of Purchased Assemblies	A-Z
Lights:	
●Bulbs	T, U, V
●Connectors	D
●Caps	C
●Ballasts which are non-optional parts (unique part numbers) but serve alternate functions.	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.

EQUIPMENT LIST

Page 3
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

EQUIPMENT LIST

Page 4

Oct 15/2007

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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.

EQUIPMENT LIST

Page 5

Oct 15/2007

D280A103

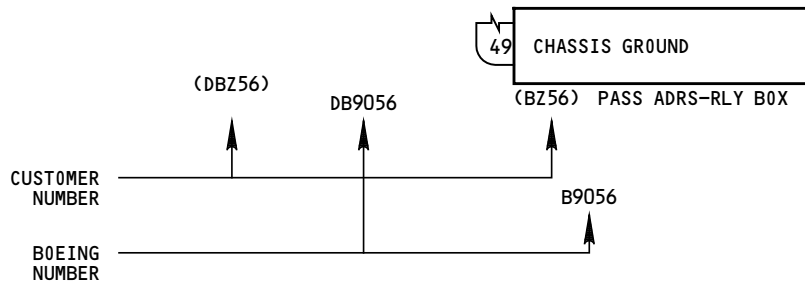


737-700/800

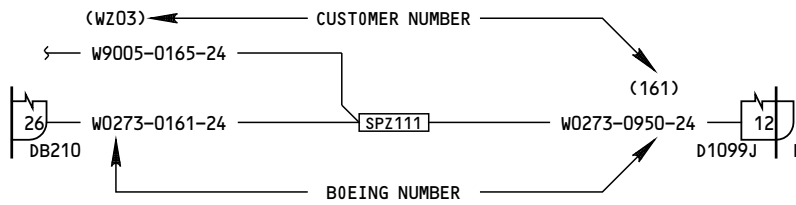
WIRING DIAGRAM MANUAL

INTRODUCTION

CUSTOMER ASSIGNED EQUIPMENT ITEM NUMBER



CUSTOMER ASSIGNED WIRE AND BUNDLE NUMBER



EQUIPMENT LIST

Page 6
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

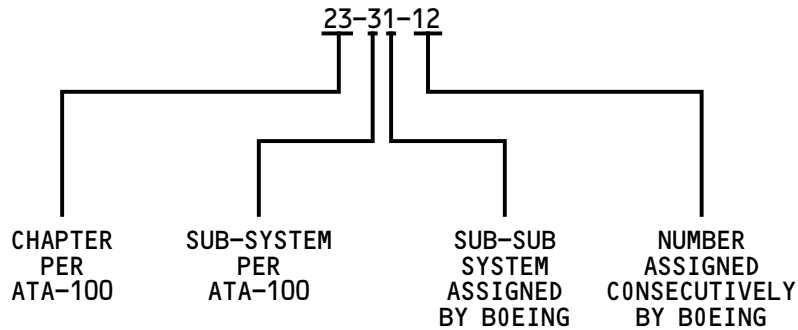
INTRODUCTION

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.



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

(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:

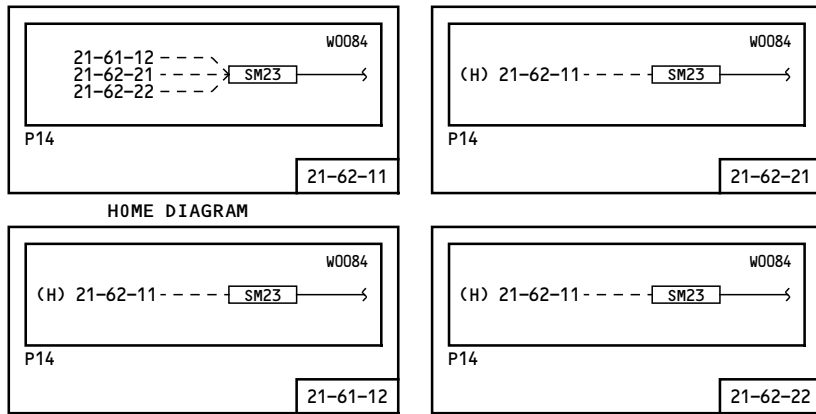
34-11-11
SH 1
34-11-11
SH 2

34-11-11
SH 3
34-11-11
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



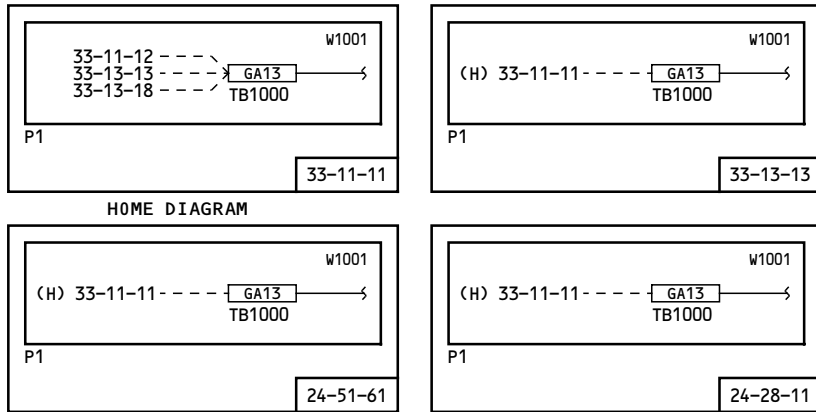


737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

(b) Terminal Blocks



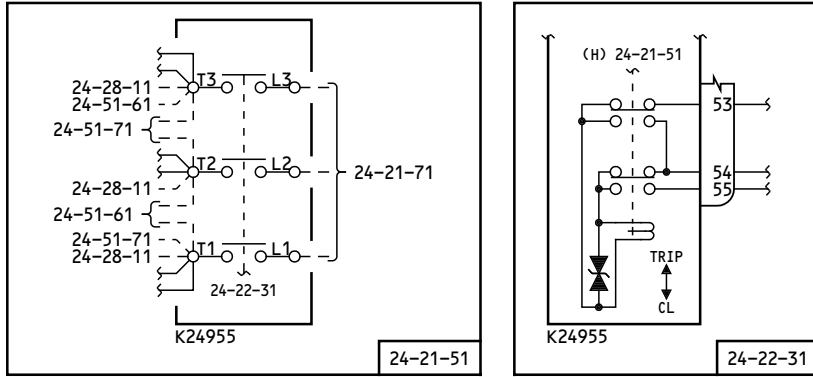
WIRING DIAGRAMS

Page 3
Jul 26/2006

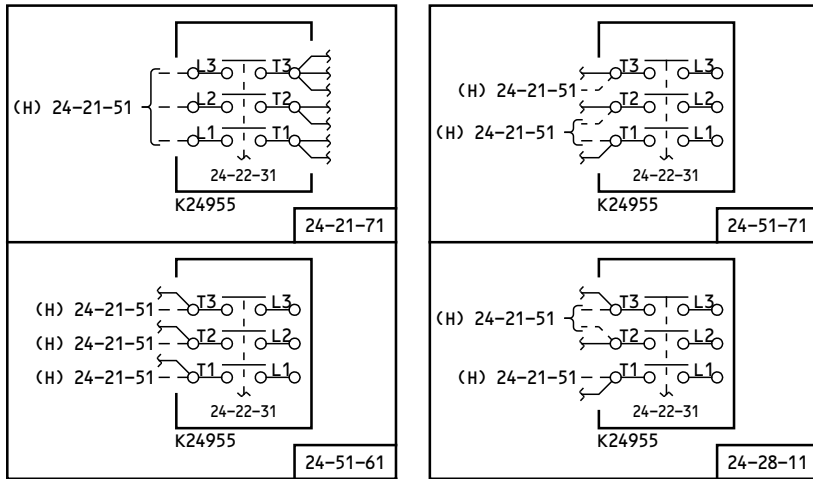
D280A103

INTRODUCTION

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



HOME DIAGRAM



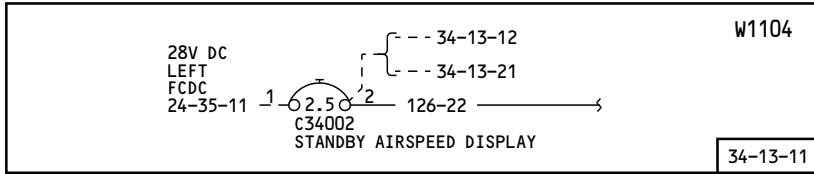


737-700/800

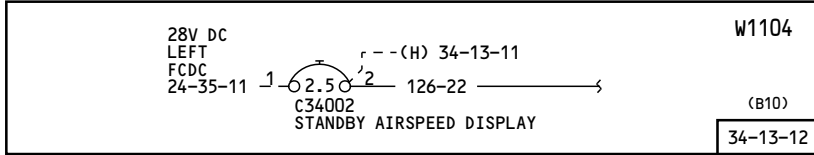
WIRING DIAGRAM MANUAL

INTRODUCTION

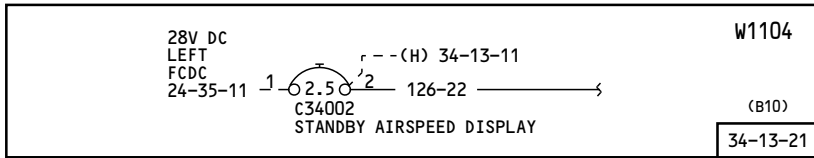
(d) Circuit Breaker



P11 HOME DIAGRAM



P11



P11



737-700/800

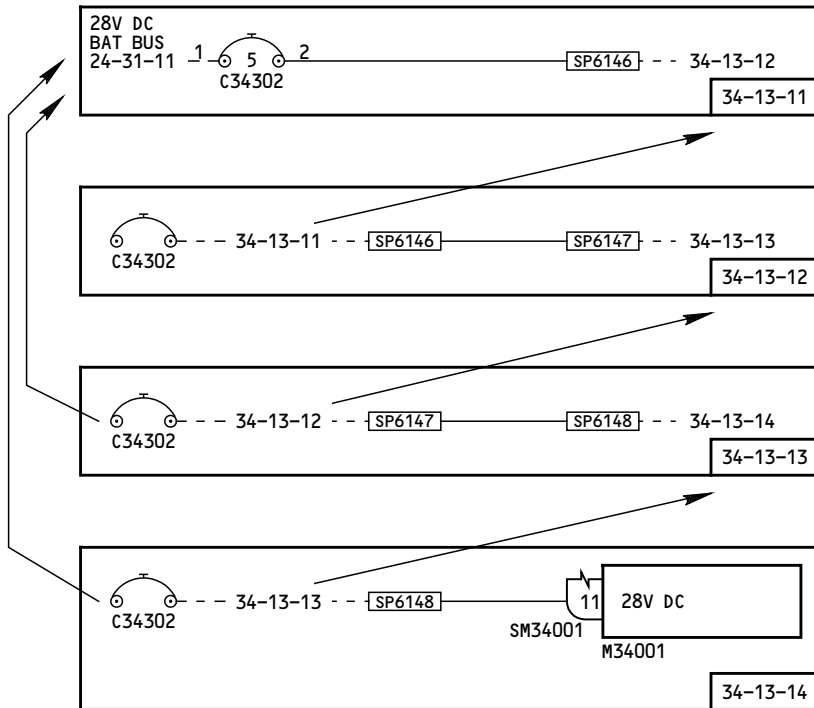
WIRING DIAGRAM MANUAL

INTRODUCTION

C. Power and Ground Indication

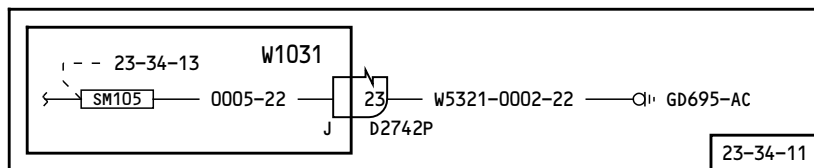
(a) Power Source Indication

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.



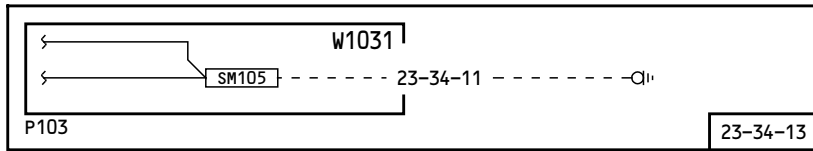


737-700/800

WIRING DIAGRAM MANUAL

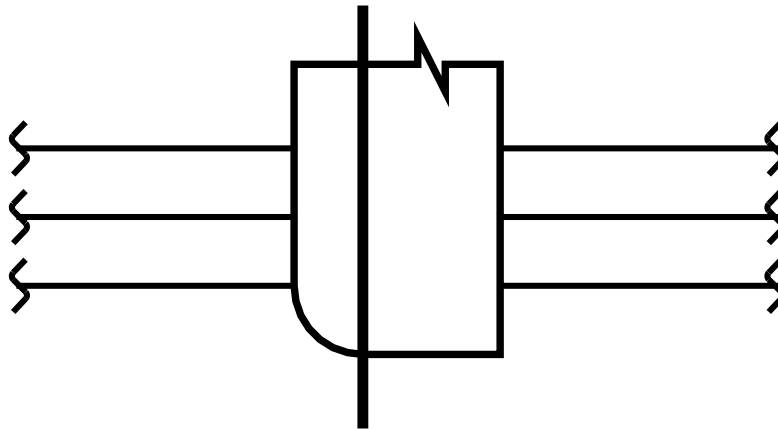
INTRODUCTION

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.



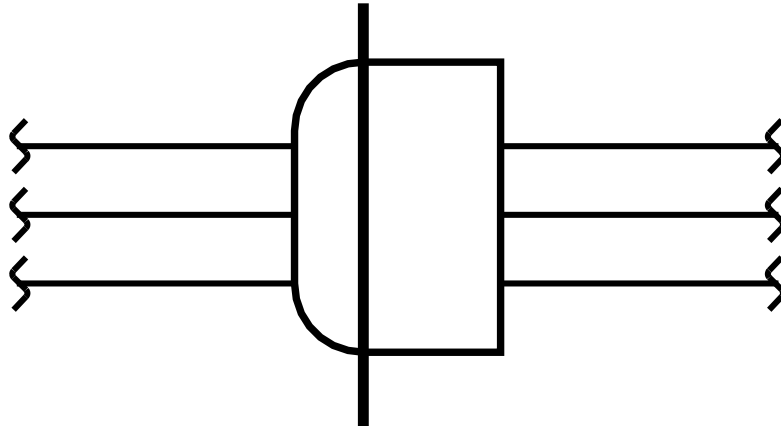


737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

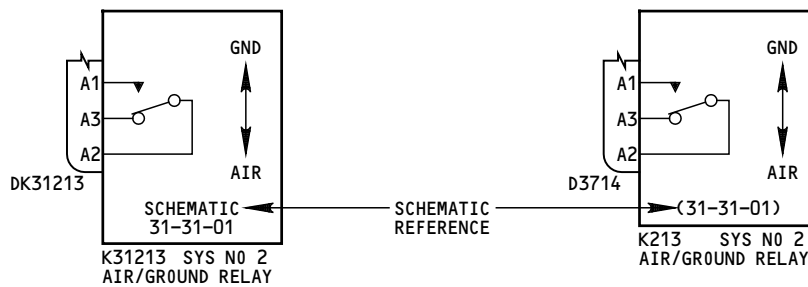


E. Galleys and Lavatories

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.



WIRING DIAGRAMS



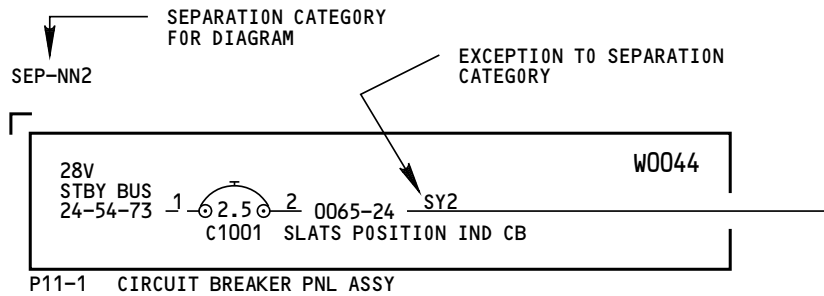
737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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.





737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

D280A103

Page 1
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

- (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).

CHARTS AND LISTS

D280A103

Page 2
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

(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.

NOTE: 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.
- 2) "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.

CHARTS AND LISTS

Page 3

Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

- 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

D280A103

Page 4
Jul 26/2006

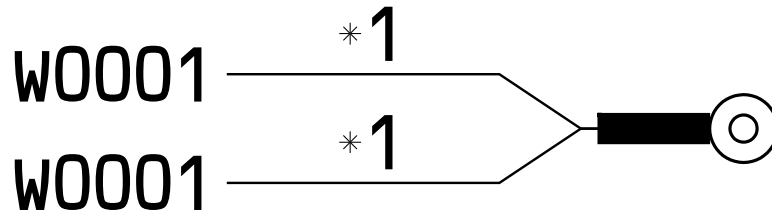


737-700/800

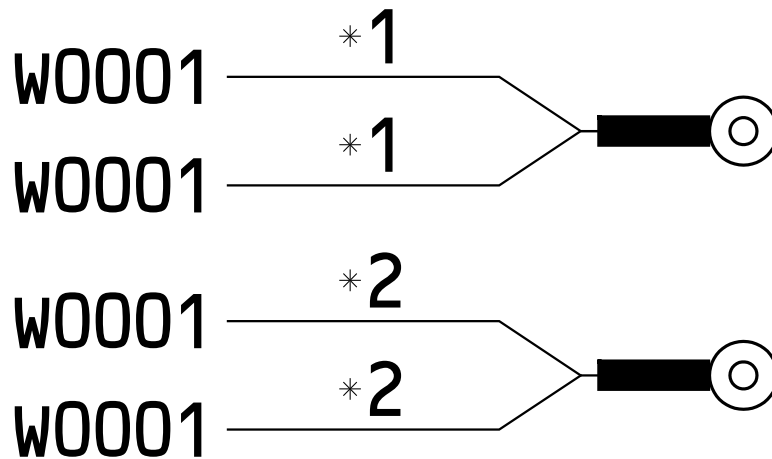
WIRING DIAGRAM MANUAL

INTRODUCTION

- 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.

CHARTS AND LISTS

D280A103

Page 5
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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 91-21-12

- (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) (h) 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 for the MW Connector.

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) Ground List reflects all grounds within the airplane. The Ground List is reported in alphanumeric order, with the corresponding Part Number and Location.
- (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.

CHARTS AND LISTS



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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 devices 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:

- 1) Each unit is shown complete on the affected diagram. Hookup List data would be redundant.
 - 2) 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 devices 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

D280A103

Page 7
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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)	001-199
Single Shielded Wire	001-199
Shield	SHA-SPZ
Twisted Pair Unshielded	201-299
Twisted Pair Shielded	201-299
Shield	SHA-SPZ
Twisted Triplet Unshielded	301-399
Twisted Triplet Shielded	301-399
Shield	SHA-SPZ
Twisted Quads Unshielded	401-450
Twisted Quads Shielded	401-450
Shield	SHA-SPZ
Special Wires-High Temperature, Thermocouple, etc.	451-500
Overflow of above (does not apply to sheild)	501-899 8000-8999
Reserved for Airlines	900-999 9000-9999
Coaxial Cable	451-500
Shield	SHA-SPZ
Twinax Cable	451-500
Shield	SHA-SPZ
Triaxial Cable	451-500
Inner Shield	SHI
Outer Shield	SHO
Bundles with more than 900 wires ("A" and "W" may be used in any combination with numerics-no other alphas can be used)	01A-A99 01W-W99
Vendor Furnished Wires	A-A thru Z-Z
Reserved for Airline	9-1 thru 9-99
Sheild Pigtail Ferrule group to a pin, ground, splice, etc.	FRA-FR9 GRA-GR9

CHARTS AND LISTS



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

CATEGORY	WIRE NUMBER
continued...	
Sleeving:	
Engineering	S01-S99
Mockup	P01-P99
Braid Over Bundle	YAA-YZZ
Polarizing plug in relay sockets	PA1-PY9
Reserved for Airline	PZI-PZZ
Bus Bars:	
For Terminal Strips	ZZA-ZZ9
Insulated for Circuit Breakers	YAA-YZZ

B. Wire Color Codes

The following is a list of single character color codes used on the wire.

WIRE COLOR	CODE
Gray	A
Blue	B
Green	G
Black	K
Purple	L
Brown	N
Orange	O
Pink	P
Red	R
Tan	T
Uninsulated	U
Violet	V
White	W
Yellow	Y

Wires may be identified by color instead of wire numbers.

WIRE COLOR	WIRE NUMBER
Black/Blue	KB
Black/Brown	KN
Black/Green	KG
Black/Gray	KA
Black/Orange	KO
Black/Red	KR
Black/Violet	KV

CHARTS AND LISTS

D280A103

Page 9
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

WIRE COLOR	WIRE NUMBER
continued...	
Black/Yellow	KY
Blue/Black	BK
Blue/Brown	BN
Blue/Green	BG
Blue/Yellow	BY
Blue/Orange	BO
Blue/Pink	BP
Blue/Purple	BL
Blue/Green/Black	AC
Brown/Orange	NO
Orange/Black	OK
Orange/Brown	ON
Orange/Yellow	OY
Red/Black	RK
Red/Blue	RB
Red/Brown	RN
Red/Green	RG
Red/Orange	RO
Red/Pink	RP
Red/Purple	RL
Red/Violet	RV
Red/Yellow	RY
Red/Yellow/Green	AB
White/Black	WK
White/Blue	WB
White/Brown	WN
White/Gray	WA
White/Green	WG
White/Orange	WO
White/Pink	WP
White/Purple	WL
White/Red	WR
White/Violet	WV
White/Yellow	WY
White/Black/Red	AG
White/Black/Violet	AL
White/Black/Yellow	AM

CHARTS AND LISTS

Page 10
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

WIRE COLOR	WIRE NUMBER
continued...	
White/Blue/Black	AK
White/Blue/Yellow	AA
White/Brown/Red	AH
White/Green/Red	AJ
White/Red/Blue	AD
White/Yellow/Red	AE
White/Purple/Red	AF
Yellow/Black	YK
Yellow/Green	YG
Yellow/Orange	YO
Yellow/Purple	YL

PSU Feeder Bundle Coloring:

In most airplanes, the wires in the PSU Feeder Bundles are identified by wire.

C. PSU Feeder Bundle Coloring

COLOR
Black
Brown
Green
Orange
Purple
White
White/Blue
White/Green
White/Orange
White/Red
White/Violet
White/Yellow

CHARTS AND LISTS

D280A103

Page 11
Jul 26/2006



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

CODES

Page 1
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

VENDOR CODE	SPECIAL VENDOR CODE ASSIGNMENT
-------------	--------------------------------

continued...

VBB	United Data Control Inc. Pasadena, California
VBC	Holmberg and Co. Ohlaur Strausse 5-11 Berlin, S036
VBD	John E. Lindberg Co. Berkely, California
VPF	The Firewall Co. Subsidiary of Aro Corpl Los Angeles, California
VPFE	Buyer Furnished Equipment
VPBG	Societe Francaise D'Equipments (SFENA) Siege Social 25A 20 Rue Du Point Nevilly, Seine, France
VPBH	Ackerman, Albert, Firma Akerman Albert, Gummersback/Rhld., Germany
VPBJ	Smiths Aviation Division Cricklewood, London, England
VPBJ	Standard Telephones and Cables Ltd. Connaught House, 63 Aldwich West Central 2, London, England
VPBM	Associated Industries Seattle, Washington
VPBO	H.K. Wilson Co. Bellevue, Washington
VPBP	Brook Part Laboratories, Inc. Cleveland, Ohio
VPBR	Amplivox Ltd., Industrial Div. Beresford, Av. Wembley, Middlesex, England
VPBRZVA	Bronzavia-S.A. 207 Blvd. Saint-Denis 92 Courbevoie, France
VPCELRD	Cosser Electronics Limited Radar Division The Pinnalces, Elizabeth Way Harlow, Essex, England
VPDELTA	Delta Air Lines, Incorporated Harsfield-Atlanta International Airport Atlanta, Georgia 30320
VPVEIA	Electronic Industries Association

CODES

Page 2
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

VENDOR CODE	SPECIAL VENDOR CODE ASSIGNMENT
continued...	
VELNO	EIno 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

TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
A	General Purpose Lug, Standard/Narrow, #2 Stud	BACT12AC43
B	General Purpose Lug, Standard, #4 Stud	BACT12AR() or 2-323914-2 (24 Gage)
C	General Purpose Lug, #6 Stud	BACT12AR() or BACT12AC()
D	General Purpose Lug, #8 Stud	BACT12AR() or BACT12AC()
E	General Purpose Lug, #10 Stud	BACT12AR() or BACT12AC()
F	General Purpose Lug, 1/4 Stud	BACT12AR() or BACT12AC()

CODES

Page 3
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued...		
G	General Purpose Lug, 5/16 Stud	BACT12AR() or BACT12AC()
H	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 ()
O	General Purpose Lug, 1/2 Stud	BACT12AC()
P	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	
Y	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
BC	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

CODES

Page 4
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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	
CT	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	

CODES

Page 5
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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 or 322332
HA	Flag Lug, 3/8 Stud	BACT12G-24
HC	Thermocouple Contact (Socket, Chromel)	MS39029/86-512
HD	Special 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

CODES

Page 6
Nov 11/2008

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued...		
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

C. 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()
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)

CODES

Page 8
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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
1F	Terminal Block Contact	M39029/58-360
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	
7O	Flag Lug, 1/4 stud	BACT12G-82
7T	Thermocouple Contact (Pin, Alumel)	030-1878-007

D280A103

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CODES

Page 9
Feb 09/2009



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

TERM TYPE CODE	DESCRIPTION OF THE CODE	PART NUMBER
continued...		
7U	Thermocouple Contact (Pin, Alumel)	030-1878-006
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		

CODES

Page 10
Feb 09/2009

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

Power Separation Values	Redundancy Separation Values	EMC Separation Values
-------------------------	------------------------------	-----------------------

continued...

S—Standby Power Circuits.
Circuits powered by Battery,
Hot Battery, and AC Standby
Bus

CODES

Page 11
Feb 09/2009

D280A103



737-700/800

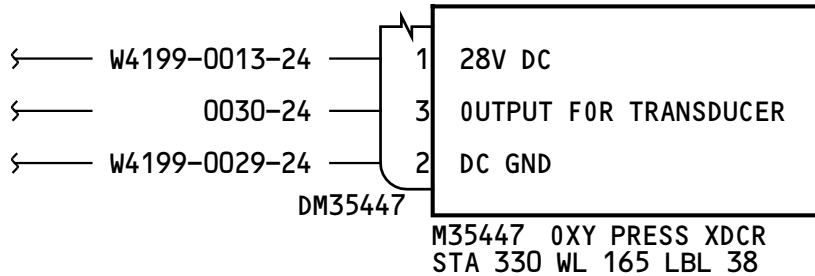
WIRING DIAGRAM MANUAL

INTRODUCTION

1. METHODS USED TO FIND INFORMATION

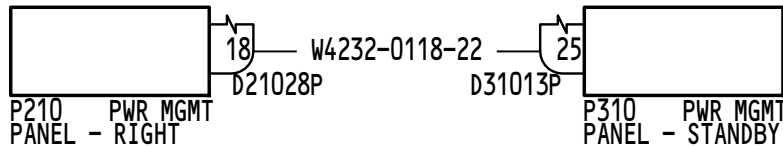
A. How To Locate A Diagram From A Wire Found In The Airplane

- (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



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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
Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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".

MANUAL USAGE

Page 3

Aug 13/2008

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

- 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.

MANUAL USAGE

Page 4

Aug 13/2008

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

(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.

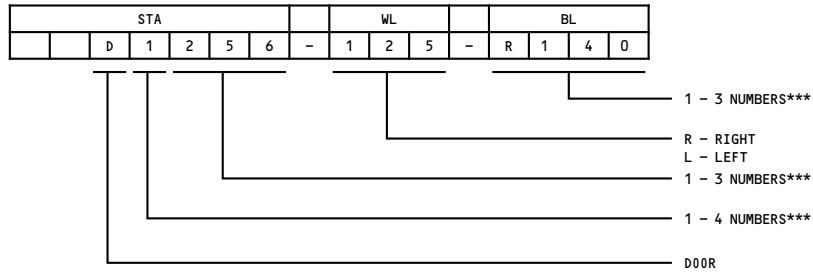
The airplane is divided into six different areas, each with its unique set of coordinates: (1) Body, (2) Wing, (3) Wing Tip, (4) Stabilizer, (5) Fin and (6) Nacelle.

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

DOOR LOCATION



***INCLUDE LEADING ZEROS

MANUAL USAGE

Page 5
Aug 13/2008

D280A103



737-700/800

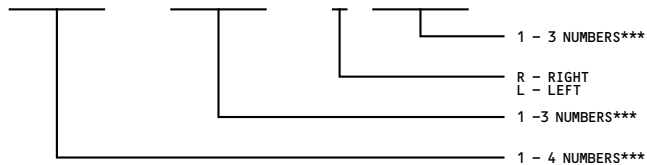
WIRING DIAGRAM MANUAL

INTRODUCTION

2) Body Location

BODY LOCATION

STA						WL				BL				
		1	0	6	5	-	1	2	5	-	R	1	4	0

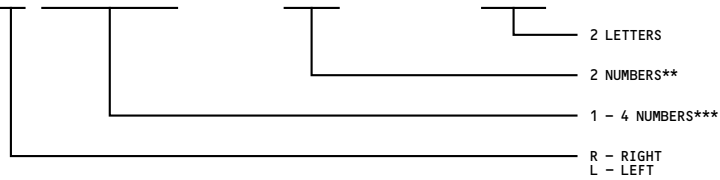


***INCLUDE LEADING ZEROS

3) Wing Location

WING LOCATION

STA						WL				BL		
		R	1	0	4	6	-	1	2	-	F	S



**12 IF ABOVE WING CORD PLANE

14 IF BELOW WING CORD PLANE

***INCLUDE LEADING ZEROS



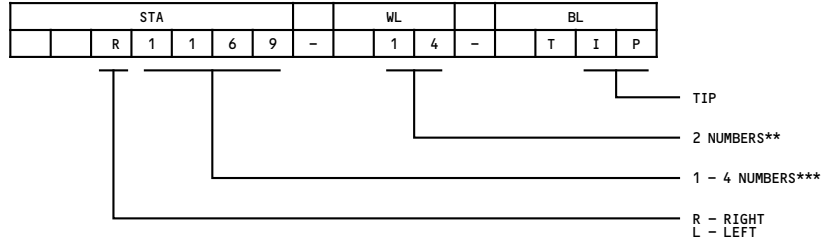
737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

4) Wing Tip Location

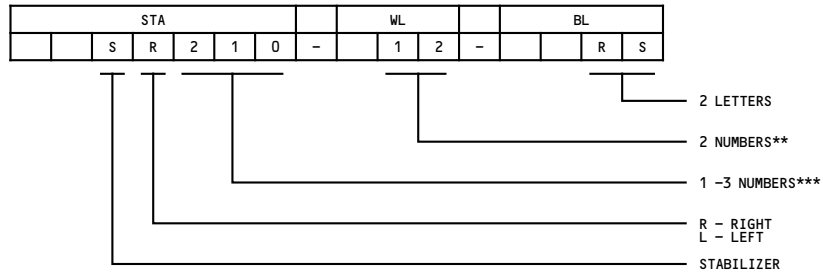
WING TIP LOCATION



**12 IF ABOVE WING CORD PLANE
14 IF BELOW WING CORD PLANE
***INCLUDE LEADING ZEROS

5) Stabilizer Location

STABILIZER



** 12 IF ABOVE WING CORD PLANE
14 IF BELOW WING CORD PLANE
***INCLUDE LEADING ZEROS



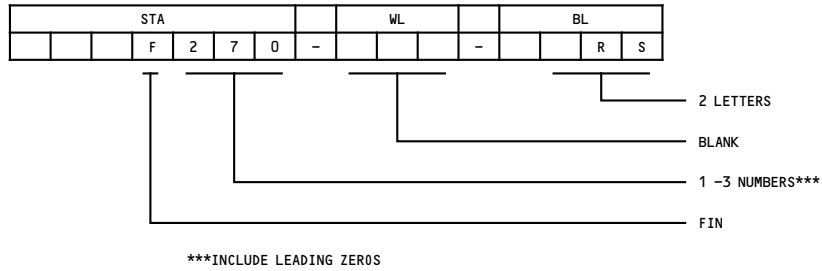
737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

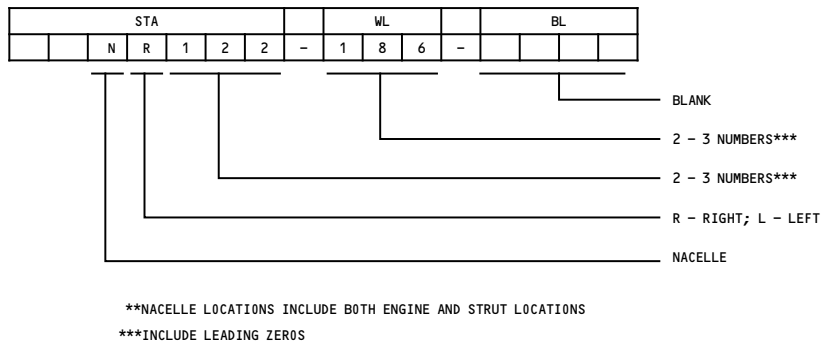
6) Fin Location

FIN LOCATION



7) Nacelle Location

NACELLE LOCATION**





737-700/800

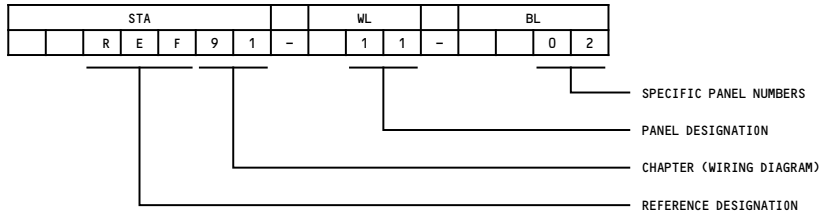
WIRING DIAGRAM MANUAL

INTRODUCTION

(b) In addition to the aforementioned location definitions, the following special location definitions are necessary:

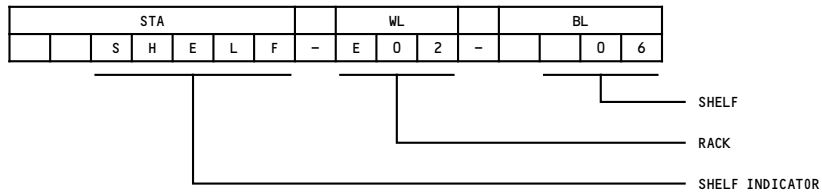
1) Chapter 91 Cross Reference For Circuit Breaker

CHAPTER 91 CROSS REFERENCE FOR CIRCUIT BREAKER



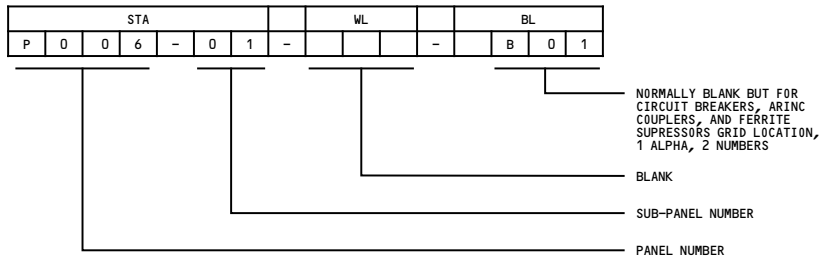
2) Shelves -E1, E2, E3, etc.

SHELVES - E1,E2,E3,ETC.



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

PANEL - P1,P2,P3,ETC.



MANUAL USAGE



737-700/800

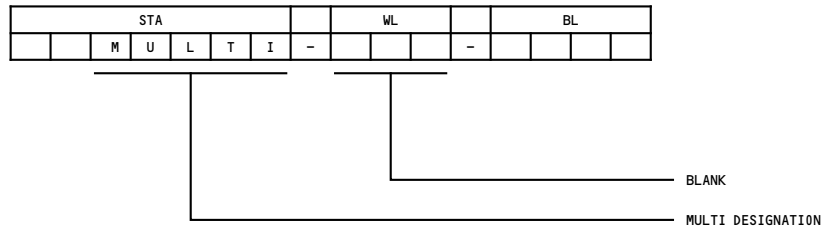
WIRING DIAGRAM MANUAL

INTRODUCTION

4) Multiple Location For Identical Units

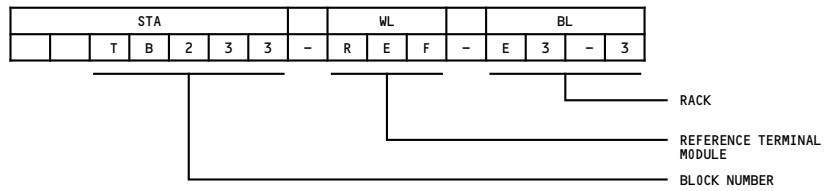
Nomenclature Of Item Denotes Location Usage

MULTI USAGE ITEM LOCATION



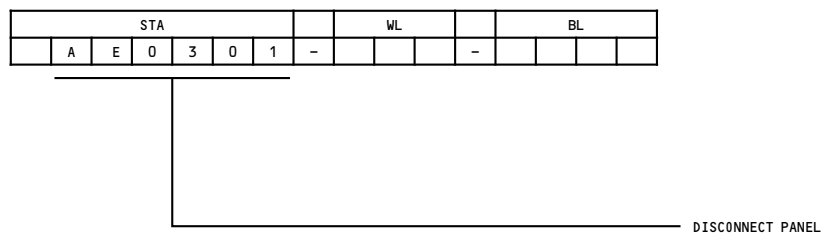
5) Diode-Rack

DIODE - RACK



6) Disconnect Panel Location

DISCONNECT PANEL LOCATION





737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

- 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	P
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 from 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.

MANUAL USAGE

Page 11

Jul 26/2006

D280A103



737-700/800

WIRING DIAGRAM MANUAL

INTRODUCTION

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

D280A103

Page 1
Jul 26/2006