



737-700/800

SYSTEM SCHEMATIC MANUAL

Hapag-Lloyd Flug GmbH

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737-700/800 SYSTEM SCHEMATIC 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-AHFV

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Model-Series	Operator		Manufacturer			Registration Number
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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
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

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Model-Series	Operator		Manufacturer			Registration Number
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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-AHXG
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

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737-700/800 SYSTEM SCHEMATIC MANUAL

Hapag-Lloyd Flug GmbH
Revision No. 42

Aug 10/2009

To: All holders of this Boeing Document D280A203

Attached is the current revision to the 737 System Schematic Manual (SSM).

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.

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Location of Change

Description of Change

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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

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All temporary revisions to this manual will be accompanied by a cover sheet bearing the temporary revision number. Enter the temporary revision number in numerical order, together with the temporary revision date, the date the temporary revision is inserted and the initials of the person filing.

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21-1133	Nov 09/2001	S	YC001-YC013 YC015-YC022	21-51-12 21-51-22 21-61-11 21-61-12 21-61-13 21-61-14	AIR CONDITIONING - ZONE TEMPERATURE LIGHTS - CIRCUIT BREAKER CHANGE TO THE AIR CONDITIONING ACCESSORY UNIT
23-1107	Jan 26/2000	C	YC001-YC007	23-71-11 33-12-11	COMMUNICATIONS - AUDIO AND VIDEO MONITORING - COCKPIT VOICE RECORDER MANUAL - ON SWITCH INSTALLATION
23-1139 R01	May 13/2008	S	YC001-YC013	23-31-11 23-34-01	COMMUNICATIONS - PASSENGER ADDRESS AND ENTERTAINMENT - INSTALLATION OF THE PASSENGER ADDRESS AMPLIFIER AND IN-FLIGHT ENTERTAINMENT AUDIO CIRCUIT BREAKERS
23-1299	May 13/2008	S	YK907-YK909	23-11-11 23-11-21 23-22-11 31-31-17	COMMUNICATIONS - HIGH FREQUENCY (HF) COMMUNICATION SYSTEM - INSTALLATION OF HF TRANSCEIVER AND HF ANTENNA COUPLER INTO EXISTING PROVISIONS
23A1170 R02	Aug 13/2008	C	YC001-YC013 YC015-YC016	23-12-11 23-12-21	COMMUNICATIONS - VHF COMMUNICATION SYSTEM - VHF-1 AND VHF-2 ANTENNAS INTERCHANGE
24-1142	Oct 20/2005	S	YC001-YC013 YC015-YC018	32-61-11	ELECTRICAL POWER - DISTRIBUTION - CARGO LEADER SYSTEM CIRCUIT BREAKER CHANGE
24-1180	May 13/2008	S	YK907-YK909	25-29-11	ELECTRICAL POWER - LOAD SHED RELAY - INSTALLATION OF TWO 110V AC, 60 HZ AUXILLARY ELECTRICAL POWER OUTLETS IN THE FLIGHT DECK

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26A1083 R01	Aug 13/2008	C	YC001-YC007	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
27-1220	Jan 26/2000	C	YC001-YC007	27-31-11 27-31-37 27-32-31	FLIGHT CONTROLS - ELEVATOR AND TAB - CHANGES TO THE STALL IDENTIFICATION SYSTEM TO SUPPORT THE REQUIREMENTS 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	Aug 13/2008	S	YC001-YC013 YC015-YC026 YC028-YC030	22-23-11 27-23-11 27-25-11 29-35-11	FLIGHT CONTROLS - RUDDER AND RUDDER TRIM CONTROL SYSTEM - INSTALLATION OF AN ENHANCED RUDDER CONTROL SYSTEM (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	27-41-11	FLIGHT CONTROLS - TRAILING EDGE FLAP AND HORIZONTAL STABILIZER TRIM SYSTEMS - S245 FLAP LIMIT SWITCH INSPECTION AND R850 RELAY INSTLLATION

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31-1136	Jul 16/2001	C	YC001-YC011	22-11-53 31-32-15 31-32-16 31-32-25 31-32-26 31-32-35 31-35-01 31-62-15 31-62-25 34-61-11 34-61-18 34-61-22 34-61-26 49-62-11	INDICATING/RECORDING SYSTEMS - DATA LOAD SELECTOR SWITCH REPLACEMENT
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31-1267	Apr 18/2007	C	YC001-YC013 YC015-YC026 YC028-YC030	31-62-41	INDICATING/RECORDING SYSTEMS - CENTRAL DISPLAY SYSTEMS - COMMON DISPLAY SYSTEM - ACTIVATION OF OPTIONAL FEATURES
31-1362	Feb 09/2009	S	YK918	31-35-03	INDICATING/RECORDING SYSTEMS - RECORDERS - WIRING REVISION FOR TELEDYNE WIRELESS QUICK ACCESS RECORDER
R 31-1362	May 13/2008	S	YL421-YL423	31-35-03	INDICATING/RECORDING SYSTEMS - RECORDERS - WIRING REVISION FOR TELEDYNE WIRELESS QUICK ACCESS RECORDER

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A 31-1362	Aug 10/2009	C	YM645-YM646	31-35-03	INDICATING/RECORDING SYSTEMS - RECORDERS - WIRING REVISION FOR TELEDYNE WIRELESS QUICK ACCESS RECORDER
32-1312 R03	Mar 03/2003	S	YC001-YC013	32-30-00	LANDING GEAR - MAIN LANDING GEAR SHIMMY DAMPER ADDITION
34-1765 R01	Sep 03/2004	S	YC001-YC013 YC015-YC026 YC028-YC030	34-53-11 34-53-21 34-53-31 34-53-41	NAVIGATION - DEPENDENT POSITION DETERMINING - AIR TRAFFIC CONTROL (ATC) SYSTEM - REPLACEMENT OF ATC TRANSPONDERS, AND ACTIVATION OF ELEMENTARY SURVEILLANCE (ELS), ENHANCED SURVEILLANCE (EHS) AND EXTENDED SQUITTER (ES) PARAMETERS
34-1767 R01	Sep 03/2004	S	YC001-YC013	22-11-51 34-21-13 34-21-23 34-53-41 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
34-1767 R01	Apr 18/2006	C	YC015-YC026 YC028-YC030	22-11-51 34-21-13 34-21-23 34-53-41 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
34-1915	Apr 18/2007	C	YC008-YC013 YC015-YC026 YC028-YC030	34-49-11	NAVIGATION - INDEPENDENT POSITION DETERMINING SYSTEMS - ENHANCED GROUND PROXIMITY WARNING SYSTEM (EGPWS) - EGPWS REVISION

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34-2082	Feb 12/2008	S	YK907-YK909	34-49-11	NAVIGATION - ENHANCED GROUND PROXIMITY WARNING SYSTEM - ALTITUDE CALLOUT - REVISION
34-2083	Feb 12/2008	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
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49-1119	Jul 16/2001	C	YC001-YC011	49-62-11	AIRBORNE AUXILIARY POWER - ELECTRONIC CONTROL UNIT (ECU) PART NUMBER CHANGE AND WIRES RETERMINATION
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
71-1605	May 13/2008	S	YK907-YK909	34-61-19	MODIFY AIRPLANE OPERATING THRUST - CHANGE FROM 7B26 RATING TO A 7B27 RATING

A = Added, R = Revised, D = Deleted

SERVICE BULLETIN LIST

Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
71-1612	May 13/2008	S	YM643 YM645-YM647 YM649 YM651	34-61-19	POWER PLANT - POWER PLANT - CHANGE THRUST RATING OF CFM56-7 ENGINES FROM CFM56-7B20 TO CFM56-7B22
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	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

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737-700/800 SYSTEM SCHEMATIC MANUAL

Number	Incorporated	Started/ Completed	Effectivity	ATA	Subject
230106	Oct 20/2006	C	YC001-YC013 YC015-YC026 YC028-YC030	23-70-11 33-11-41	COCKPIT DOOR SURVEILLANCE SYSTEM
737-EB34-0155 R04	Aug 07/2002	C	YC001-YC007	34-21-14 34-21-23 34-21-24 34-41-11 34-45-11 34-49-11	INSTALLATION OF MARK V ENHANCED GROUND PROXIMITY WARNING SYSTEM (EGPWS)
737-EB34-0192	Aug 07/2002	C	YC001-YC007	34-41-11 34-49-11 34-53-11 34-53-21	NAVIGATION - WXR SYSTEM, PWS PERIPHERAL SYSTEMS CONNECTIONS
737-EB34-0193	Aug 07/2002	C	YC001-YC007	34-41-11 34-45-11	NAVIGATION - WXR PWS SYSTEMS ACTIVATION
737-EB34-0428	May 11/2009	C	YC001-YC007	34-49-11	CHANGE EGPWS PROGRAM PINS STRAPPING
EO 23-80059-6	Oct 15/2007	S	YC001-YC013 YC015-YC026 YC028-YC030	23-12-31 23-27-11 23-27-16 34-53-11 34-53-21	WIRE PROVISION FOR ACARS VDL MODE 2 OPERATION
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

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CH-SC-SU	Title
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24-54-11	115V AC STANDBY BUS
24-51-11	115V AC TRANSFER BUS 1
24-51-21	115V AC TRANSFER BUS 2
24-53-11	28V AC BUSES
24-61-11	28V DC BUSES
24-28-11	AC INDICATION P5-13
24-28-21	AC SYSTEM GENERATOR & APU INDICATION P5-4
24-23-31	AC TIE BUS
23-27-12	ACARS (724B) - DFDAU AND OOOI INTERFACES
23-27-13	ACARS (724B) CONTROL AND DISPLAY
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 CODING
23-27-15	ACARS (724B) SATCOM AND AIRSHOW INTERFACES
23-27-35	ACARS/CMU - 716 VHF AND FMC INTERFACES
23-27-39	ACARS/CMU - DATA LOADER AND PROGRAM PINS
23-27-38	ACARS/CMU - OOOI, CREW ADVISORIES AND OUTPUT 8

CH-SC-SU	Title
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23-27-33	ACARS/CMU - OUTPUT BUS 2 INTERFACES
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31-35-04	ACMS PARAMETERS - DIGITAL INTERFACE
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27-18-11	AILERON POSITION INDICATION
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21-61-31	AIR CONDITIONING TEMPERATURE INDICATION
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34-21-12	AIR DATA INERTIAL REFERENCE SYSTEM (ADIRS) - LEFT SYSTEM INPUTS
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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
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32-09-12	AIR/GND SYSTEM 2 AND NOSE GEAR GROUND SENSING RELAYS
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49-62-11	APU CONTROL- AIRPLANE INTERFACE
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49-71-01	APU EGT INDICATION
49-71-21	APU EGT SYSTEM
26-11-31	APU FIRE DETECTION
49-31-00	APU FUEL DISTRIBUTION
49-00-00	APU GENERAL ARRANGEMENT
49-41-11	APU IGNITION AND STARTING SYSTEM
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49-94-01	APU OIL INDICATION
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34-53-41	ATC ENHANCED SURVEILLANCE
34-53-11	ATC TRANSPONDER 1
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33-26-11	ATTENDANT WORK LIGHTS
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52-51-11	CONTROL CABIN DOOR LOCK
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CH-SC-SU	Title
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INTRODUCTION**1. APPLICABILITY**

This System Schematic 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

This System Schematic Manual (SSM) is a collection of diagrams which define the airplane systems. These data are prepared essentially in accordance with 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.

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Every effort has been made to ensure that the information presented on these schematics is complete and correct. However, in the event of conflict between this manual and Boeing Wiring Diagrams or other engineering drawings, the wiring diagrams or drawings shall be the controlling definition.

A. Purpose of Introduction Section

This Introduction Section is intended to provide the user with an overview of the SSM, an explanation of symbols used, and assumptions made while developing these schematics. Without an understanding of these symbols and assumptions, the user may not get the full value from the enclosed schematics.

B. Purpose of System Schematic Manual

The System Schematic Manual (SSM) was prepared to serve as a source of information to assist in understanding system function and to facilitate fault isolation to the Line Replaceable Unit (LRU) level. It is not intended for use as a substitute for other maintenance documentation (i.e., Fault Isolation Manual, Maintenance Manual, Wiring Diagram Manual). The SSM does not include information for testing. The procedures in the Fault Isolation Manual should be used for any fault isolation requiring testing. The procedures in the Maintenance Manual should be used to support removal and installation of components. The Wiring Diagram Manual (WDM) should be used as a reference to isolate faults in wiring and in-line disconnects.

The data contained in this manual are customized for each airline. Except for those features added by service bulletin or specifically requested by the airline, these data include coverage for only those features that are part of the airplane as delivered by Boeing.

3. BOEING CHANGE DEFINITIONS

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

GENERAL INFORMATION

INTRODUCTION**A. Customer Originated Changes (COC)**

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

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B. Service Bulletin (SB)

Service Bulletins provide information for accomplishing a Boeing engineering change on in-service airplanes.

C. 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.

4. 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.

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.

5. BOEING COMMERCIAL PUBLICATION CHANGE REQUEST (PCR)

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GENERAL INFORMATION

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	AIDS	Airborne Integrated Data System
A/C	Aircraft	AIMS	Airplane Information Management System
A/R	Altitude Rate	AMU	Audio Management Unit
ACARS	ARINC Communications Addressing and Reporting System	ANCMT	Announcement
ACE	Actuator Control Electronics	ANCPT	Anticipate
ACCESS	Advance Cabin Entertainment and Service System	ANCPTR	Anticipator
ACM	Air Cycle Machine	ANS	Ambient Noise Sensor
ACMP	Alternating Current Motor Pump (See also EMP)	ANTI-COLL	Anti-Collision
ACMS	Airplane Conditioning Monitoring System	AOA	Angle of Attack
ACP	Audio Control Panel	AOC	Air/Oil Cooler
ADF	Automatic Direction Finder	APB	Auxiliary Power Breaker
ADI	Attitude Director Indicator	APID	Airplane Identification
ADIRS	Air Data Inertial Reference System	APU	Auxiliary Power Unit
ADIRU	Air Data Inertial Reference Unit	ARINC	Aeronautical Radio Incorporated
ADL	Airborne Data Loader	ASA	Autoland Status Annunciator
ADM	Air Data Module	ASCPC	Air Supply Cabin Pressure Controller
ADP	Air Driven Pump	ASCTS	Air Supply Control and Test System
ADRS	Address	ASCTU	Air Supply Control and Test Unit
ADS	Air Data Systems	ASP	Audio Select Panel
ADU	Air Drive Unit	AVM	Airborne Vibration Monitor
AEM	Audio Entertainment Multiplexer	BDY BLK	Burndy Block
AFDC	Air Flight Data Control	BFE	Buyer Furnished Equipment
AFDS	Autopilot Flight Director System	BPCU	Bus Power Control Unit
AFL	Air Flow	BSCU	Brake System Control Unit
		BST	Boost
		BTB	Bus Tie Breaker
		BTLCS	Brake Torque Limiting Control System

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BTMU	Brake Temperature Monitor Unit	COM/NAV	Communication/Navigation
C	Cold	COR	Corrector
CACTS	Cabin Air Conditioning & Temperature Control System	CP	Control Panel
CADS	Central Air Data System	CPCS	Cabin Pressure Control System
CALIB	Calibrator	CRKG	Cranking
CAP	Capture	CSB	Compressor Stability Bleed
CAP	Contact Authorized Proposal	CSMU	Cabin System Management Unit
CAPC	Cabin Area Control Panel	CT	Control Transformer
CAPT	Captain	CTC	Cabin Temperature Controller
CCA	Central Control Actuator	CTS	Cabin Temperature Selector
CCL	Cargo Control Logic	CTS	Conversational Terminal System
CCM	Cargo Control Module	CVR	Cockpit Voice Recorder
CCU	Cargo Control Unit	CWS	Control Wheel Steering
CDU	Control Display Unit	DAA	Digital/Analog Adapter
CFDS	Centralized Fault Detection System	DADC	Digital Air Data Computer
CFE	Customer Furnished Equipment	DAR	Digital Aids Recorder
CHKPT	Checkpoint	DED	Dead Ended Shield
CHSP	Course Heading Select Panel	DEL	Diagram Equipment List
CIC	Cabin Interphone Controller	DFCS	Digital Flight Control System
CIWS	Central Instrument Warning System	DFDAU	Digital Flight Data Acquisition Unit
CMC	Central Maintenance Computer	DFDR	Digital Flight Data Recorder
CMD	Command	DH	Decision Height
CMM	Component Maintenance Manual	DIU	Digital Interface Unit
CMS	Cabin Management System	DMU	Data Management Unit
COC*	Customer Originated Change	DP	Differential Protection
COF MKR	Coffee Maker	DPA	Digital Pre-Assembly
COLL	Collision	DPCT	Differential Protective Current Transformer

DEFINITIONS

INTRODUCTION

DPLY	Deploy	EXTD	Extend
DSP	Display Select Panel	F/D	Flight Director
E/E	Electrical/Electronics	F/E	Flight Engineer
EADI	Electronic Attitude Director Indicator	F/F	Fuel Flow
ECS	Environmental Control System	F/O	First Officer
EDIU	Engine Data Interface Unit	FADEC	Full Authority Digital Engine Control
EDP	Engine Driven Pump	FAFC	Full Authority Fuel Control
EEC	Electronic Engine Control (Unit)	FAR	Federal Aviation Regulations
EFIS	Electronic Flight Instrument System	FBW	Fly-by-Wire
EHSI	Electronic Horizontal Situation Indicator	FCC	Flight Control Computer
EICAS	Engine Indicating and Crew Alerting System	FCU	Flap Control Unit
EIU	EFIS/EICAS Interface Unit	FDAU	Flight Data Acquisition Unit
ELCCR*	Electrical Liaison Change Commitment Record	FLMTR	Flowmeter
ELCU	Electrical Load Control Unit	FMC	Flight Management Computer
ELMS	Electrical Load Management System	FMCS	Flight Management Computer System
EMC	Electromagnetic Compatibility	FMU	Fuel Metering Unit
EMP	Electric Motor Pump (See also ACMP)	FMV	Fuel Metering Valve
ENTMT	Entertainment	FOC	Fuel/Oil Cooler
ENWY	Entryway	FQIS	Fuel Quantity Indication System
EPR	Engine Pressure Ratio	FQPU	Fuel Quantity Processor Unit
EPRL	Engine Pressure Ratio Limit	FSEU	Flap/Slat Electronics Unit
ESCC	Electrical Supply and Control Center	GCB	Generator Circuit Breaker
ESNTL	Essential	GCR	Generator Control Relay
ESS	Essential	GCU	Generator Control Unit
ETC	Electronic Temperature Control	GPWS	Ground Proximity Warning System
ETOPS	Extended Twin (Engine) Operations	GS	Glide Slope
EXCHR	Exchanger	GSB	Ground Service Bus

DEFINITIONS

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GSPR	Gasper	LO	Lock Out
H	Hot	LP	Lightning Protector
HLCU	High Lift Control Unit	LPT	Low Pressure Turbine
HMU	Hydromechanical Unit	LRRA	Low Range Radio Altimeter
HND	Hand	LRU	Line Replaceable Unit
HPC	High Pressure Compressor (N2 Rotor)	LSDA	Low Speed Digital To Analog
HPSOV	High Pressure Shutoff Valve	M	Mach
HPT	High Pressure Turbine	M MUX	Main Multiplexer
HYDIM	Hydraulic Interface Module	MAI	Multiplexer Action Item
HYQUIM	Hydraulic Quantity Interface Module	MAWEA	Modularized Avionics and Warning Electronics Assembly
HZ	Hertz (Cycles Per Second)	MC*	Master Change
IBIT	Initiated Built In Test	MCDP	Maintenance Control and Display Panel
IBVSU	Instrument Bus Voltage Sense Unit	MCDU	Multipurpose Control and Display Unit
IDG	Integrated Drive Generator	MCP	Mode Control Panel
IDS	Integrated Display System	MGSCU	Main Gear Steering Control Unit
ILES	Inboard Leading Edge Station	MHRS	Magnetic Heading Reference System
INS	Inertial Navigation System	MHZ	Megahertz
INTC	Interconnect	MIDU	Multipurpose Interactive Display Unit
IOEU	Inboard Overhead Electronics Unit	MKR BCN	Marker Beacon
IPC	Illustrated Parts Catalog	MLS	Microwave Landing System
IPL	Illustrated Parts List	MNFST	Manifest
IRS	Inertial Reference System	MOSFET	Metallic Oxide Semiconductor Field Effect Transistor
JPR	Jumper	MR*	Modification Revision
KHZ	Kilohertz	MTCHG	Matching
KVA	Kilovolt Ampere	MTG	Muting
LGHTNG	Lightning	NBR	Number
LMP	Lamp	ND	Navigation Display

DEFINITIONS

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NGT	Night	PRCLR	Precooler
OAP	Output Audio Processor	PROT	Protection
OFCR	Officer	PRR*	Production Revision Record
OFL	Outflow	PRSOV	Pressure Regulating Shut-Off Valve
OMS	Onboard Maintenance System	PSA	Power Supply Assembly
OOEU	Outboard Overhead Electronics Unit	PSEU	Proximity Switch Electronics Unit
OPAS	Overhead Panel ARINC 629 System	PSU	Passenger Service Unit
OPBC	Overhead Panel Bus Controller	PTT	Press To Talk/Push To Talk
OVDR	Overdoor	PVD	Paravisual Display
OVFL	Overfill	PYL	Pylon
OVHT	Overheat	QAM	Quadrature Amplitude Modulation Unit
OVWG	Overwing	QAR	Quick Access Recorder
PA	Passenger Address	QDT	Quadrantal
PA/CI	Passenger Address/Cabin Interphone	RAT	Ram Air Turbine
PCH	Patch	RDMI	Radio Distance Magnetic Indicator
PCT	Percent	RDP	Roller Drive Power
PDU	Power Drive Unit	RDU	Remote Display Unit
PES	Passenger Entertainment System	REP	Repellent
PFC	Primary Flight Computer	RFLNG	Refueling
PFD	Primary Flight Display	RGLTN	Regulation
PFIDS	Passenger Flight Information Display System	RMCP	Radio Management Control Panel
PIS	Passenger Information Sign	RR*	Rapid Revision
PKG	Parking	RST	Reset
PMA	Permanent Magnet Alternator	RSV	Reserve
PMG	Permanent Magnet Generator	RTC	Rudder Trim Control
PMS	Performance Management System	RVSG	Reversing
POR	Point of Regulation	RVT	Rotational Variable Transformer

DEFINITIONS

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SAARU	Standby Attitude/Air Data Reference Unit	TBV	Turbine Bypass Valve
SAT	Static Air Temperature	TCA	Turbine Cooling Air
SATCOM	Satellite Communications	TCAS	Traffic Collision Avoidance System
SB*	Service Bulletin	TCC	Turbine Case Cooling
SCF	System Cardfile	TDL	Time Delay Logic
SCM	Spoiler Control Module	TDX	Torque Differential Transmitter
SCU	Seat Control Unit	TERM BLK	Terminal Block
SDI	Source Destination Identifier	TGT	Turbine Gas Temperature
SEB	Seat Electronics Box	THSHD, THRSH	Threshold
SEB/ST	Seat Electronics Box With Self Test	TL	Tilt
SEI	Standby Engine Instruments	TLA	Thrust Lever Angle
SEU	Seat Electronics Unit	TMC	Thrust Management Computer
SHVR	Shaver	TMS	Thrust Management System
SL*	Service Letter	TO	Turn-off
SN	Sign	TPIS	Tire Pressure Indication System
SO	Shut-off	TPMU	Tire Pressure Monitor Unit
SO	Standard Option	TR	Torque Receiver
SPL	Splice List	TR	Transformer Rectifier
SRM	Stabilizer Trim/Rudder Ratio Module	TRA	Thrust Resolver Angle
SUP-NUM	Supernumerary	TRC	Thermatic Rotor Control
SVU	Seat Video Unit	TRU	Transformer Rectifier Unit
SWDL	Software Data Loader	TS	Terminal Strip
SWL	Sidewall	TTG	Time To Go
T/M	Torque Motor	TURB	Turbulence
T/R	Thrust Reverser	TX	Torque Transmitter
TAI	Thermal Anti-Ice	UNLK	Unlock
TAT	Total Air Temperature	VBV	Variable Bypass Valve

DEFINITIONS

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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

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INTRODUCTION**1. LEVELS OF SCHEMATICS**

Three levels of schematics may be drawn to represent the system functions:

Level 1	BLOCK DIAGRAM: Provides a broad overview of the system, or part of a system, showing major functions and components, functional groupings and pertinent interfaces.
Level 2	SIMPLIFIED SCHEMATIC: Provides a simplified view of the functions, components and interfaces. Broader in scope, showing more detail than level 1 schematics. Functions are shown without regard to their location in the aircraft or to pin-to-pin circuits.
Level 3	SCHEMATIC: Shows the system in sufficient depth for fault isolation to the LRU level. Provides a detailed view of the functions, components, pin-to-pin connectivity and interfaces. Provides a link between the function and the physical implementation. Provides the location reference for the components in the airplane.

2. CONTENT OF SCHEMATICS

The schematics show each system in a functionally integrated presentation that:

- Identifies and locates all LRU's and shows their functional internal circuitry in a simplified manner.
- Identifies connections between LRU's with cross reference to all interfacing system schematics.
- Provides signal flow for primary functions which require airplane wiring or observable indications.

The preferred schematic layout is power on the left and load on the right; signal source on the left, and signal destination/indication on the right. After satisfying proper left to right flow, the equipment is shown in relation to its position in the airplane, when possible. Left is forward, right is aft, top is right, bottom is left.

Unless otherwise noted, all schematics are shown with the airplane on the ground, after a normal flight, and with the post-flight checklist completed (power off). Instruments, indicators and monitors may reflect other conditions where clarity of presentation is improved.

Schematics may contain information relating to the nominal actuating pressure, temperature, or quantity values of certain devices, as well as dimensional relationships and operational notes. Such information is provided for reference only as an aid in systems understanding and is not intended for use to do rigging, calibration, adjustment, or functional testing. Refer to the Maintenance Manuals for this data.

A. Schematic Organization/Numbering System

ATA Specification 2200 assigns chapters to each major system (e.g., Hydraulics) of functional group of systems (e.g., Navigation). Each chapter is assigned a two-digit number (e.g., Hydraulics is Chapter 29 and Navigation is Chapter 34).

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Additionally, ATA Specification 2200 divides each chapter into sections. The section number is the third and fourth digits in the ATA number. Boeing assigns each subsystem the fourth digit in the ATA number. These same four-digit ATA numbers are used throughout the System Schematic Manual, Wiring Diagram Manual, Fault Isolation Manual, Maintenance Manuals, and Maintenance Training documents. The schematic numbers in the SSM are assigned following this four-digit ATA number assignment and with a two-digit suffix to make each schematic of that subsystem unique using a six-digit number. The schematics are further defined in the following manner: Schematic number (six-digit ATA number), Page number, and as required SCHEM number and/or Sheet number.

Complex subsystems may require more than one schematic sheet. In general, the subsystem shows the related functions on one schematic. Multiple schematics may also be used to show the function of the subsystem. "SCHEM" numbers may also be assigned to schematics depicting subfunctions of primary function.

Additionally, each schematic may require multiple sheets. Odd-numbered sheets are printed on the left side of the binding and even-numbered sheets on the right. This allows the schematic to be read across the binding edge.

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.

The airplane effectivity code, Customer or Boeing assigned, of each schematic is noted in a box in the lower left corner of the schematic. All sheets of a multiple-sheet schematic must have the same effectivity.

B. Equipment Numbers

Equipment numbers (reference designators) are assigned to each airplane component with wiring attached, all Line Replaceable Units (LRU), panels and racks. Not all components with equipment numbers are LRU's and not all LRU's are assigned an equipment number. The equipment number uniquely identifies a component. However, if a component is part of an assembly, the equipment number will be the same for each use of the assembly in the airplane.

C. Equipment Description

The Equipment Description used in the SSM and WDM consists of the component name, followed by a location modifier (e.g., VHF Radio-Left).

D. Depiction of Equipment on Schematics

The schematic identifies which equipment is a Line Replaceable Unit (LRU) by the width of the box representing the equipment. Equipment that is not an LRU is identified with a solid thin line. The LRU is identified with the solid wide line if it is shown in the home ATA system. It is identified by a wide cross-hatched line if the circuit functions are duplicated in another interfacing ATA system. Provisional equipment not installed on an airplane at the time of delivery is identified by dash equipment boxes; however, the wiring has been installed to allow installation of the equipment at a later date.

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The schematic which shows the primary function of the LRU is the home for that LRU. If the LRU is not shown in its entirety on its home schematic, a continuation break (Z-break) is used to indicate that the LRU is shown incomplete. In this case, a reference to the "home schematic" is placed in the top center of the LRU box. LRU's with multiple primary functions shown in multiple systems are identified with Z-breaks. References are not included on the home schematic.

In the SSM, the following definition of a LRU has been used:

A Line Replaceable Unit is a unit which can be readily changed on an aircraft during Line Maintenance operations. Line Maintenance includes a routine check, inspection and malfunction correction performed en route and at base stations during transit, turnaround, or night stop.

Most LRU's do not contain line replaceable components. These "closed" LRU's generally do not show internal equipment item numbers, connectors and pin numbers. "Open" LRU's contain line replaceable components and components that are easily accessible. These line replaceable subcomponents are also depicted as LRU equipment items.

In selected instances, multiple equipment may share the same graphic box. Each equipment number, description and location are listed under the box. All connections go to identical interfaces on each box, except that the connector numbers will be unique for each box.

E. Circuits and References

The lines between the equipment boxes on schematics show all pin-to-pin connections between the LRU's and do not show individual wire segments or indicate the complete wiring hookup. When possible, the complete circuit is shown on the home schematic. When the circuit can not be shown complete on the home schematic, a reference is made to indicate where the user will find the other portion(s). For all incomplete circuits, a branched wire off a common point is shown with an ATA reference to the schematic showing the other portions of the circuit. The referenced schematic will repeat at least one pin of the circuit and have a reference back to the home schematic to complete the circuit. Schematic references in wires/lines indicate the circuit may not be shown complete, but is shown on another system schematic and is duplicated on this schematic.

To improve clarity, some wires are grouped into a single wire with a brace at each end. The pins on each end correlate one for one at each end of the wire.

Circuits that cross the binding edge to an adjacent schematic sheet are drawn to line up at the edge of the schematic and are lettered. Mechanical lines that cross the binding edge are numbered.

To improve clarity, connections between points on a schematic which are remote from each other, may be shown with circles around them (bubbles). Bubbles may also be used to connect points from one schematic to another. Combining bubbles connects the circuit. The letters in the bubbles are unique for that schematic and all referenced schematics. Tubing and mechanical lines that are referenced using bubbles are numbered.

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The connector equipment number is shown for connectors mating to each LRU. This equipment number is placed just above the pin numbers and usually begins with the letter "D". If multiple connectors mate with the equipment, a letter suffix is added to correlate the connector to the LRU receptacle (e.g., A = J1, B = J2). If this correlation is not followed, the receptacle number is added in parentheses next to the connector number. ARINC 600 connector equipment item numbers are shown on schematics without a suffix letter. In the WDM Equipment List an ARINC 600 connector equipment item number is shown without a suffix letter followed by the same equipment item number with suffix letters. The first suffix letter indicates the section of the connector, e.g. A, B, C. The second letter indicates the kind of contact(s) in that section. See the WDM Equipment List for a description of contacts.

Where the connector numbers differ on each half of a disconnect, both numbers are shown separated by a / (slash).

Pin and socket lower case letter identifiers are indicated by an upper case letter followed by a minus sign (-), (e.g. F- = f). If there is no terminal number marked on the part, the pin number is assigned by Boeing and is prefaced with an = (equal), (e.g., =P for power, =G for ground). Coaxial contacts are identified with the contact number followed by a T (for Tip) or TR (for Tip Ring).

Where the access to the connector pin is very limited and the LRU is easily replaceable (i.e., a Line Replaceable circuit card in a card cabinet), the connector number and the pin numbers for the card interface are not shown.

In-line disconnects and pin numbers are shown on system schematics only if required for fault isolation (i.e., component pigtailed are removed at the disconnect).

G. Locations

The location of each Equipment Item is shown through the use of illustrations and/or in parentheses following the Equipment Description. This location may be a panel or rack number, a general word location based on airplane zone or door location, or three-point coordinates based on one of the airplane reference planes. Word locations or three-point coordinates may not be shown when an illustration is used to show location.

H. Data Buses

A parallel line data bus symbol, with an arrow to indicate the direction of the data flow, represents the data bus connection between the LRU's. To depict connectivity, the pin numbers on each bus termination are listed in the same order (i.e., the top pin shown on an LRU physically connects to the top pin shown on every other connected LRU). The pin(s) are arranged in a logical order (i.e., the signal "high" is on top, the ARINC 429 "A" connections are on top, or the most significant to the least significant bit). Note that this logical order may sometimes result in pin numbers being out of numerical sequence. To improve clarity, data buses that are internal to the equipment are shown as single lines with an arrow.

I. Airplane Illustrations

General airplane dimensions and locations are included in the 00 section of the SSM. These are intended to provide a general overview of the airplane along with location information for common equipment. Examples of the items found in this section are:

- Flight deck panel locations, including illustrations of the front of the panels.
- Equipment rack locations, including the location of the equipment on the rack.

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- Circuit breaker panel locations, including the location of the circuit breakers.

J. Purpose of Illustrations on Schematics

Illustrations are included on many schematics to assist the user in locating and recognizing the component in the airplane. These illustrations are to be used in conjunction with the introductory illustrations. They are not intended to provide sufficient detail to allow component removal or installation information; these details are included in the Boeing Airplane Maintenance Manuals.

K. Wire Diagram Reference Box

To assist the user in cross referencing to the appropriate wire diagram(s), a wire diagram reference box is placed in the upper-right corner on each schematic that depicts wiring connectivity. This box contains a listing of all of the wire diagrams that depict the circuits shown on that schematic. Circuits duplicated on this schematic are not listed in the reference box; they are listed on the home schematic for the circuit.

3. SYMBOLS

Symbols are used wherever possible to convey system function. The most commonly used symbols are shown on the Symbol pages in the General Chapter, 00-00-00.