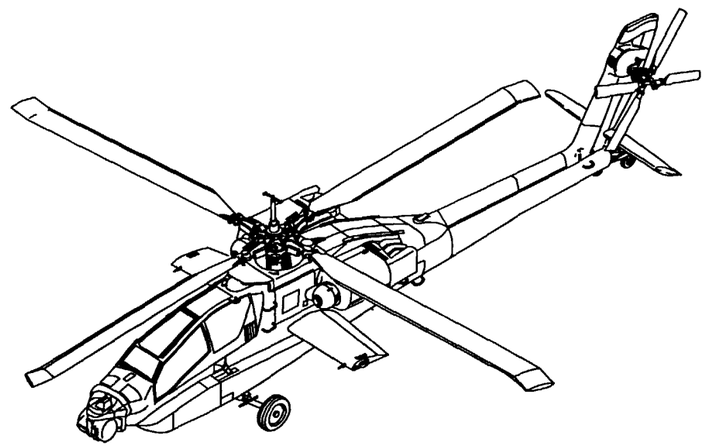
TECHNICAL MANUAL

AVIATION UNIT AND INTERMEDIATE TROUBLESHOOTING MANUAL

FOR

ARMY MODEL AH-64A HELICOPTER (NSN 1520-01-106-9519) (EIC: RHA)

WIRING DIAGRAMS



SUPERSEDURE NOTICE: This manual supersedes TM 1-1520-238-T-10, dated 05 SEPTEMBER 1990, including all changes.

HEADQUARTERS, DEPARTMENT OF THE ARMY

31 August 1992

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 31 August 1992

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM–MMC–MA–NP, Redstone Arsenal, AL 35898–5230. A reply will be furnished directly to you.

You may also submit your recommended changes by E–mail directly to 2028@redstone.army.mil or by fax 205–842–6546/DSN 788–6546. Instructions for sending an electronic 2028 may be found at the end of this manual immediately preceding the hard copy 2028.

OZONE DEPLETING CHEMICAL INFORMATION:
This document has been reviewed for the presence of Class I Ozone depleting chemicals. As of Change 7 dated 27 February 1998, all references to Class I Ozone depleting chemicals have been removed from this documentation by substitution with chemicals that do not cause atmospheric Ozone depletion.

TABLE OF CONTENTS

*** SUPERSEDURE NOTICE:** **This manual supersedes TM 1-1520-238-T-10, dated 05 SEPTEMBER 1990, including all changes.**

TABLE OF CONTENTS (cont)

HOW TO USE THIS VOLUME

OVERVIEW

This volume contains wiring diagrams which provide point-to-point wiring for each aircraft system. The diagrams show LRUS, cable interfaces, splices, shielding, ground studs, etc. Each cable location and connection can be found in the wire harness location and routing diagrams. This volume also contains connector end view diagrams and a symbols chart for the various wiring diagram symbols used.

GENERAL

If you can't find information, you can't do the job. Learn how to use this volume. Check how the volume is put together. Look at the following examples. Before using the volume, learn how it works.

This volume is made up of chapters. The chapters are made up of paragraphs which are numbered. Every job and the information you need has a number. This will help you find it when you need it.

Example: paragraph number: 2-1

VOLUMES

This volume is volume ten of a ten volume set of manuals.

TM 1-1520-238-T-1 Fault Detection/Location System (FD/LS). TM 1-1520-238-T-1 is a pocket-sized volume which integrates all FD/LS checks, power up and power down procedures, auxiliary power unit (APU) operating and emergency procedures, and references to the appropriate volume(s) to aid in fault isolation.

TM 1-1520-238-T-2 Master Failure Symptom Index. TM 1-1520-238-T-2 lists all integrated troubleshooting failure symptoms in alphabetical order. Each failure symptom refers you to the appropriate MOC in another volume. Additional troubleshooting information can be found by using the display symbology data found in chapter 1. You can refer to this volume for all types of failures, i.e., audio/visual, loss of power, short or open exists, etc.

TM 1-1520-238-T-3 Multiplex (MUX) Read Codes. TM 1-1520-238-T-3 contains Multiplex (MUX) Read Code interpretations by subsystem. You are directed to go to this volume from MOCS in subsystem volumes. You can use this volume as an aid to interpret Multiplex (MUX) Read Codes and locate faults. You are directed to the appropriate system volume, to remove or replace a failed LRUS or to a failure symptom within this volume.

TM 1-1520-238-T-4 Aviation Unit and Intermediate Troubleshooting Manual.
TM 1-1520-238-T-4 contains system location and description, theory of operation, electrical component location and configuration (ECLC) index, power up/power down procedures, MOCs, wiring interconnect diagrams, and fault isolation procedures (FIPs). The following subsystems are covered in this volume:

- Airframe.
- Landing Gear.
- Power Plants.
- Rotors.
- Drive.

TM 1-1520-238-T-5 Aviation Unit and Intermediate Troubleshooting Manual.
TM 1-1520-238-T-5 contains system location and description, theory of operation, ECLC index, power up/power down procedures, MOCS, wiring interconnect diagrams, and FIPs. The following subsystems are covered in this volume:

- Hydraulic and Pneumatic.
- Instruments.

TM 1-1520-238-T-6 Aviation Unit and Intermediate Troubleshooting Manual.
TM 1-1520-238-T-6 contains subsystem iocation ami description, theory of operation, ECLC index, power up/power down procedures, MOCS, wiring interconnect diagrams, FIPs and FD/LS NO-GO FIPs. The following subsystem is covered in this volume:

- Electrical.

TM 1-1520-238-T-7 Aviation Unit and Intermediate Troubleshooting Manual.
TM 1-1520-238-T-7 contains system location and description, theory of operation, ECLC index, power up/power down procedures, MOCS, wiring interconnect diagrams, FIPs and FD/LS NO-GO FIPs. The following subsystems are covered in this volume:

- Fuel.
- Flight Control.

TM 1-1520-238-T-8 Aviation Unit and Intermediate Troubleshooting Manual.
TM 1-1520-238-T-8 contains system location and description, theory of operation, ECLC index, power up/power down procedures, MOCS, wiring interconnect diagrams, FIPs and FD/LS NO-GO FIPs. The following subsystems are covered in this volume:

- Utility.
- Environmental Control.
- Hoists and Winches (not applicable).
- Auxiliary Power Unit.
- Mission Equipment.

TM 1-1520-238-T-9 Theory of Operation. TM 1-1520-238-T-9 contains description and theory of operation for each aircraft subsystem. This information includes signal flow diagrams for major system functions and explanatory text with the appropriate signal name for each input or output. This information can be used to isolate unanticipated faults for failure symptoms or related data which do not exist.

HOW TO USE THIS VOLUME (cent)

CHAPTERS

Each chapter contains paragraphs. Chapter 1 contains general information, a symbols chart, connector end views and effectivity codes.

SECTIONS

Depending upon the subject matter under examination, chapters may employ sections to separate and highlight major categories of information and also to promote understanding.

SECTION NUMBERING

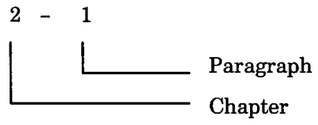
Sections are numbered with Roman numerals (Section I, Section II, etc.).

PARAGRAPHS

Paragraphs make up chapters. It is the paragraphs that have the information you need for any job. USE THE INDEX TO FIND THE PARAGRAPH YOU NEED. DONT USE THE PAGE NUMBERS.

PARAGRAPH NUMBERING

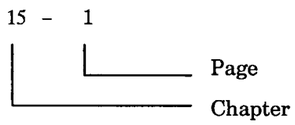
Paragraph numbers are in two parts. The first number is the chapter, The second number is the paragraph. Each number is separated by a dash as shown in the example.



Paragraph numbers are the most important numbers in the volume. Always use the paragraph number to find information – NOT the page number.

PAGE NUMBERING

All page numbering is done by chapters. Paragraph numerals are not included in the page numbers. The first number represents the chapter the second number represents the page in that chapter. The numbers are separated by a dash as shown in the example.



NOTE

Page numbers are not used to find information. Instead, use paragraph numbers.

SYMBOLS CHART

Symbols used in the wiring diagrams are shown in a symbol chart. If you need symbol information, refer to the symbol chart located in Chapter 1.

CONNECTOR END VIEWS

This volume contains connector end views with a directory. The directory is in alphabetical order by reference designator (REF DES). The directory also lists the wire (WIRE) harness (lIARN) number (NO.) and connector (CONN) code (CODE). If you require connector information, lookup the reference designator in the directory, then refer to the connector end view illustration listed under the connector code.

Example:

REF DES	WIRE HARN NO.	CONN CODE
J1	W617	CN
J1	W618	FF
J1	W619	FL

AH-64A HELICOPTER EFFECTIVITY CODES

Helicopter effectivity codes designate differences between helicopters by helicopter serial numbers, These codes consist of three letters and represent various helicopter serial number blocks. They are used throughout this volume as necessary to aid in the helicopter troubleshooting effort.

These codes are used to designate serial number block differences.

These codes are placed on the line between line replaceable units (LRUs) or within the LRU.

Example: 

To use the helicopter effectivity codes, note the helicopter serial number on the tail of the helicopter. Use this serial number to determine which path in a wiring diagram to follow.

WIRING DIAGRAM DIRECTORY

The wiring diagram directory is in alphabetical order by reference designator (REF DES). Looking up the reference designator of a connector, splice, ground stud, circuit breaker, component, or LRU provides you with the cable reference, paragraph number and the applicable wiring diagram.

Example:

REF DES	COMPONENT	CABLE	PARA	WIRING DIAGRAM
1J1 (A636)	CONNECTOR	W211	2-1	AIR DATA SYSTEM (ADS)
P1 (A76)	CONNECTOR	W605	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)

WIRING DIAGRAMS

The wiring diagrams provide you with point-to-point wiring for each aircraft system. The wiring diagrams depict LRUS, connectors, splices, shielding, ground studs, MRTU interfacing and terminal boards.

Highway use (fig. 1-1). The alpha character identifies a specific line, and the number in parenthesis identifies the sheet number where the signal terminates.

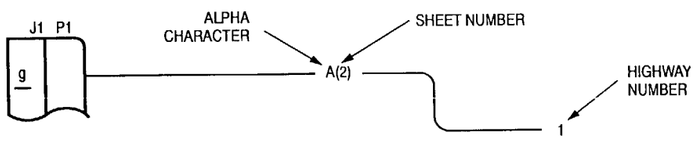


Figure 1-1. Highway Use

Triaxial connectors (fig. 1-2) and some coaxial connectors are shown in the wiring diagrams with two pins.

Example: pin 1 and pin 1S.

Pin 1 is located inside pin 1S with the shield attached to pin 1S. In triaxial connectors, the second shield is attached to the case and is not identified by a pin number or letter.

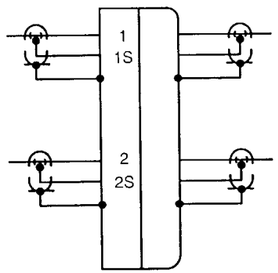


Figure 1-2. Triaxial Connector

Electrical connections at terminal boards are typically shown (fig. 1-3) as follows:

1. Vertical and horizontal lines indicate electrical separation between terminals and blocks of terminals.

2. Absence of lines indicates no separation.

3. Terminal board connections may be illustrated horizontally, vertically or a combination of both.

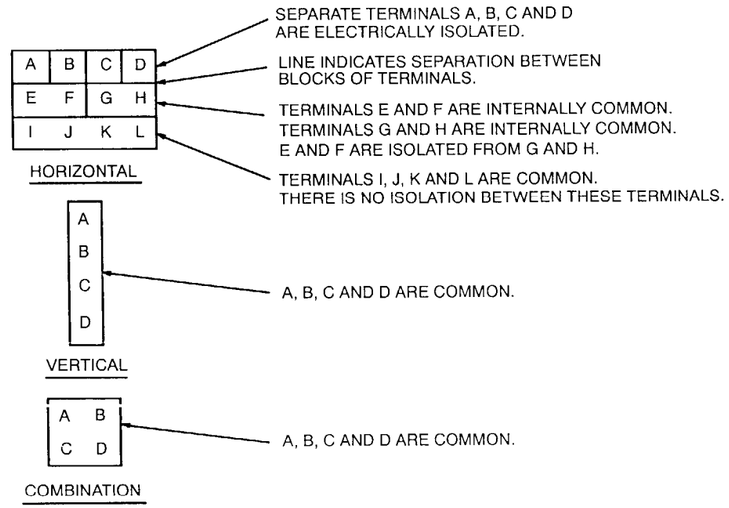


Figure 1-3. Typical Terminal Board Connections

WIRE HARNESS DIAGRAMS

Wire harness diagrams show the approximate location and routing of all connectors and components located on a wire harness. The components and connectors are referenced to fuselage station (FS), waterline (WL) and butt line (BL). Forward and aft views which refer to forward and aft in the helicopter, are used in the wire harness diagrams. Where required for clarity, **FWD and AFT arrows are used.**

APPENDIX

Appendix A contains a list of other manuals you might need to do your job.

GLOSSARY

The glossary for this volume contains a list of abbreviations and acronyms. Abbreviations are shortened terms for words. Acronyms are shortened terms for several words and usually use only the first letter of each word. Abbreviations and acronyms are defined the first time they are used within the text of the chapter where they are found. The list in the glossary however, provides a good place to check if there is any doubt. The glossary also contains definitions of unusual terms that appear in the volume. Check the list of definitions if you see a word in the volume that you're not sure of. It is always a good idea to look over the glossary and become familiar with abbreviations, acronyms and unusual terms.

INDEX

The index for TM 1-1520-238-T-10 is at the end of this volume. The index lists all paragraph titles in alphabetical order. After you find the paragraph title in the index, the appropriate paragraph is indicated. For example, if you need wiring information on the Air Data System, go to the **A** section of the index and look under Air Data System (ADS). There you will find:

Subject	**Para No.**
Air Data System (ADS) -Wiring Diagram.	2-1

The index informs you that the Air Data System (ADS) Wiring Diagram is in Chapter 2, paragraph 1.

CHAPTER 1 INTRODUCTION

Chapter 1 contains general information, symbols chart, connector end views and effectivity codes to help in the troubleshooting of the AH-64A helicopter.

Section I. GENERAL INFORMATION

1-1. SCOPE

This volume is an Aviation Unit Maintenance (AVUM) manual. Its purpose is to provide the means to assist you in troubleshooting the AH-64A helicopter through the use of wiring diagrams.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those described by DA PAM 738-751, The Army Maintenance Management System - Aircraft (TAMMS-A).

1-3. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE

Destruction procedures you need to know are in TM 750-244-1-5.

1-4. QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

Quality assurance information you are required to use is explained in FM 55-411.

1-5. REPORTING QUALITY DEFICIENCY REPORTS

If your helicopter needs improvement, let us know. Send us an Equipment Improvement Recommendation (EIR). You, the user, are the only one who can tell us what you don't like about your equipment. Let us know what you don't like about the design. Tell us why a procedure is hard to perform. Put it on SF 368 (Deficiency Report). Mail it to us at:

Commander, U.S. Army Aviation and Missile Command, Attn: AMSAM-MMC-LS-P, Redstone Arsenal, AL 35898-5230. A reply will be furnished to you.

Section II. SYMBOLS CHART

EXTERNAL JACK/PLUG UPPER

EXTERNAL JACK/PLUG LOWER

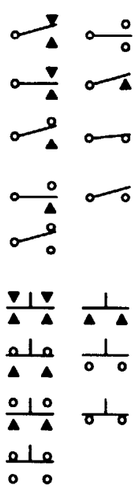
INTERNAL JACK/PLUG UPPER

INTERNAL JACK/PLUG LOWER

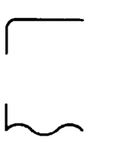
SINGLE POLE SWITCHES

DOUBLE POLE SWITCHES

DOUBLE POLE DOUBLE CONTACT SWITCH



MAGNETIC SWITCH



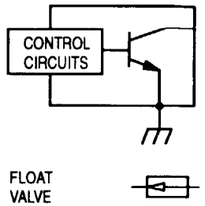
PRESSURE SWITCH

MOMENTARY SWITCH

THERMAL SWITCH

FLOAT SWITCH

SQUAT SWITCH

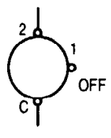


FLOAT VALVE

PRESSURE ACTUATOR (HYDRAULIC)

TEMPERATURE ACTUATOR (THERMOCOUPLE)

MASTER IGNITION SWITCH

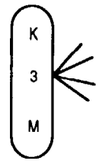


COAX

TRIAX

SHIELD

BUS BAR W3



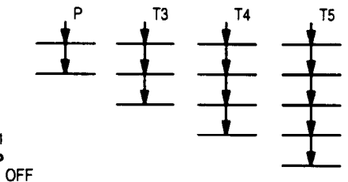
TERMINAL GROUND STUD

GROUND STUD

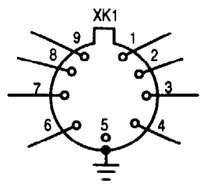
GROUND

CHASSIS GROUND

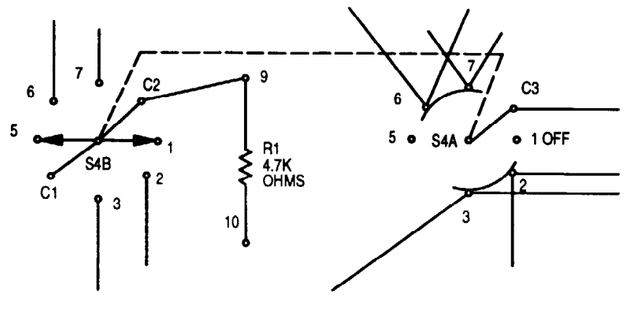
TWISTED WIRES



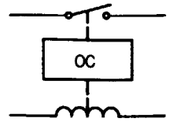
RELAY SOCKET



ROTARY SWITCHES



OVER CURRENT SWITCH



SOLDERED CONNECTION

SPLICE

END CAP

FUSE

CONTACT CIRCUIT BREAKER

SINGLE CELL BATTERY

MULTICELL BATTERY

10TH CELL TAP

RESISTOR

VARIABLE RESISTOR

FIXED TAP RESISTOR

NONLINEAR RESISTOR

PRESSURE TRANSDUCER

DIODE

BIDIRECTIONAL DIODE

ZENER DIODE

BIDIRECTIONAL ZENER DIODE

ZENER DIODE WITH ENVELOPE

PNP BIPOLAR TRANSISTOR

NPN BIPOLAR TRANSISTOR

ELECTRONIC FLASH TUBE

TRANSFORMER

TRANSFORMER WITH MAGNETIC-CORE

RELAY COIL

INDUCTOR

HOLDING COIL

GENERATOR

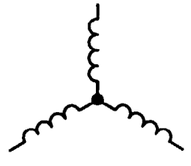
MOTOR

ELECTROMAGNETIC ACTUATOR

CHIP DETECTOR

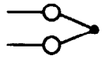
WIRE HARNESS NUMBER

AC DELTA SPLITTER



ROTATING SLIP RING AND BRUSH

THERMOCOUPLE



POLARIZED CAPACITOR

CAPACITOR

LAMP

MICROPHONE

HEADSET

ANTENNA

BRIDGE-TYPE RECTIFIER

DIODE-TYPE RING DEMODULATOR/ MODULATOR

PERMANENT MAGNET

PHASE Ø

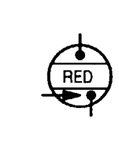
LIQUID LEVEL SENSOR

EXPLOSIVE SQUIB

INVERTED AND LOGIC GATE

BITE INDICATOR

INDICATOR LIGHT

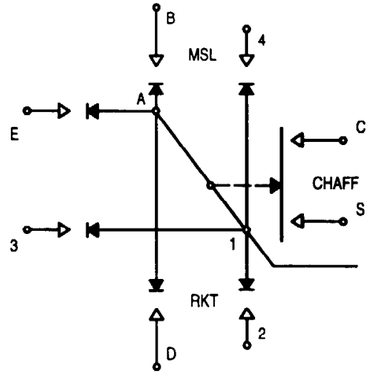


TEMPERATURE SENSOR

TEMPERATURE TRANSDUCER

DELTA FOR EFFECTIVITY CODE

CYCLIC STICK SWITCHES



M50-020

Section III. CONNECTOR END VIEWS

1-6. CONNECTOR END VIEW DIRECTORY

The connector end view directory lists connectors in alphabetical order by connector (CONN) reference designator (REF DES). The directory also lists the wire (WIRE) harness (HARN) number (NO.) and connector (CONN) code (CODE). When you require connector information, look up the reference designator in the directory, then refer to the connector end view illustration listed under connector code.

CONNECTOR END VIEW DIRECTORY

CONN REF DES	WIRE HARN NO.	CON CODE
1J505	W157	DM
1J508	W157	EO
2J505	W157	DM
2J508	W157	EO
3J505	W158	DM
3J508	W158	EO
4J505	W158	DM
4J508	W158	EO
J1	W214	BX
J1	W215	BX
J1	W602	CH
J1	W605	EY
J1	W608	CN
J1	W610	FE
J1	W611	FE
J1	W612	FL
J1	W613	CL
J1	W614	EM
J1	W615	DZ
J1	W616	DB
J1	W617	CN
J1	W618	FF
J1	W619	FL
J1	W621	CM
J1	W622	FL
J1	W624	DI
J1	W625	FL
J1	W627	DB
J1	W645	GA
J1	W642	FL
J1	W646	FL
J1	W651	ET
J1	W652	FL
J1	W656	FF
J1	W668	DH
J10	W646	FL
J10	W668	EG
J1012	W171	EH
J1019	W266	GK
J1039	W119	FI
J1047	W118	AG
J1048	W119	AG
J1049	W118	AG
J1058	W117	BZ
J107	W119	DA
J1074	W116	CG
J1075	W117	CG
J1076	W170	AW
J108	W119	DA
J1080	W636	CR
J11	W646	FL
J11	W668	FL
J111	W108	AC
J112	W118	AC
J113	W117	FI
J115	W119	BU
J116	W118	BU
J118	W255	CU
J12	W646	FL

CONNECTOR END VIEW DIRECTORY

CONN REF DES	WIRE HARN NO.	CONN CODE
J12	W668	FL
J124	W170	EL
J13	W646	FL
J13	W668	FL
J131	W102	CK
J1304	W277	GI
J14	W108	FZ
J14	W646	FL
J14	W668	EG
J143	W255	FM
J15	W646	FL
J15	W668	FL
J16	W118	DW
J16	W646	FL
J16	W668	FL
J161	W119	GA
J164	W118	FI
J166	W118	FI
J168	W119	FG
J17	W646	FL
J17	W668	FL
J18	W646	FL
J18	W668	FL
J19	W646	FL
J19	W668	BQ
J2	W216	AB
J2	W217	AB
J2	W611	GA
J2	W612	FL
J2	W614	GA
J2	W615	BA
J2	W617	GA
J2	W621	EU
J2	W624	DD
J2	W642	FL
J2	W645	GA
J2	W646	FL
J2	W652	FL
J2	W668	ET
J20	W668	FL
J21	W119	DM
J21	W668	FL
J213	W119	BT
J214	W118	BT
J215	W115	GC
J219	W211	GC
J22	W118	DM
J22	W668	FL
J223	W115	GC
J225	W211	GC
J227	W211	GC
J23	W261	DM
J23	W668	FL
J24	W264	DM
J24	W668	FL
J25	W668	CT
J256	W601	AG

CONNECTOR END VIEW DIRECTORY (cont)

CONN REF DES	WIRE HARN NO.	CONN CODE
J26	W668	FL
J266	W119	AO
J267	W118	AO
J268	W119	AO
J269	W118	AO
J27	W668	FL
J270	W119	AO
J271	W118	AO
J272	W119	AO
J273	W119	AO
J28	W668	BQ
J29	W668	FQ
J3	W621	BJ
J3	W636	BW
J3	W642	FL
J3	W646	FL
J3	W668	CG
J30	W668	FL
J304	W220	FW
J305	W220	FW
J306	W158	BC
J307	W157	BC
J31	W668	FL
J32	W668	BR
J4	W621	BS
J4	W636	BW
J4	W642	FL
J4	W646	FL
J4	W668	CG
J402	W211	FL
J403	W117	FL
J404	W118	FL
J407	W255	FL
J408	W211	GC
J410	W211	FL
J411	W255	FL
J414	W117	AR
J415	W211	GC
J416	W255	FF
J417	W211	GC
J418	W255	FL
J420	W266	FT
J428	W117	FL
J436	W118	FL
J447	W119	FL
J448	W119	FL
J449	W119	FL
J452	W261	BG
J455	W211	EG
J456	W211	FL
J458	W117	FL
J459	W119	FL
J47	W119	DZ
J474	W116	FF
J475	W647	FL
J48	W118	DZ
J484	W211	FT
J486	W188	FT
J492	W118	AX
J495	W211	FT
J5	W642	FL
J5	W646	FL
J5	W668	FL
J522	W255	EA
J523	W255	FL
J524	W118	FL
J527	W645	FL
J528	W644	FL
J530	W119	FG
J531	W637	CF
J532	W636	CZ
J533	W255	FL
J535	W117	BL
J537	W255	FL
J577	W117	BL
J578	W116	AP
J579	W117	AP
J583	W637	BR
J586	W117	DS
J587	W117	EQ
J588	W116	DS
J589	W116	EQ

CONNECTOR END VIEW DIRECTORY (cont)

CONN REF DES	WIRE HARN NO.	CONN CODE
J591	W117	FE
J592	W116	FE
J6	W642	FL
J6	W646	FL
J6	W668	FL
J60	W118	CA
J61	W119	CA
J691	W118	GA
J692	W118	GA
J7	W642	CJ
J7	W646	FL
J7	W668	AF
J755	W110	DD
J756	W170	CN
J757	W119	AO
J758	W119	AO
J764	W117	BM
J772	W118	GA
J774	W119	GA
J8	W642	FL
J8	W646	EA
J885	W266	GH
J886	W266	GH
J887	W266	GH
J888	W266	GH
J889	W117	AL
J890	W266	FF
J891	W117	AM
J892	W266	AL
J9	W646	FL
J9	W668	FL
J906	W117	FP
J907	W261	FL
J908	W119	FL
J909	W119	FL
J910	W211	FL
J911	W211	AM
J912	W119	FL
J914	W119	FL
J915	W261	FL
J916	W119	AX
J919	W211	FL
J92	W102	CC
J921	W117	FL
J922	W117	FL
J935	W211	BX
J95	W211	BX
J96	W170	BT
J97	W170	AE
J975	W205	FT
J993	W119	BH
J994	W119	BH
J997	W211	BW
J998	W102	BW
P1	W221	AP
P1	W605	DG
P1	W608	BW
P1	W609	FH
P1	W615	BL
P1	W627	DA
P1	W636	GC
P1	W638	AP
P1	W640	FH
P1	W643	FJ
P1	W648	BI
P1	W653	BM
P1	W654	BM
P1	W668	DA
P100	W119	FK
P101	W119	FK
P1010	W156	FX
P1011	W102	AC
P1012	W154	EI
P1019	W266	CV
P102	W119	AO
P1020	W197	FU
P1021	W195	FU
P103	W119	BD
P1037	W266	EN
P1038	W266	CB
P104	W118	BD
P1041	W117	BP

CONNECTOR END VIEW DIRECTORY (cont)

CONN REF DES	WIRE HARN NO.	CONN CODE
P1042	W118	AD
P1044	W201	FU
P1046	W266	CB
P105	W155	BC
P1059	W117	AW
P106	W156	BC
P1060	W117	AK
P1066	W118	AO
P1067	W268	AO
P1072	W102	AG
P1074	W158	CH
P1075	W157	CH
P1077	W211	ES
P1078	W255	FU
P1079	W255	FU
P1080	W116	CQ
P1085	W118	BT
P1086	W268	AO
P1087	W211	FE
P109	W119	EY
P1092	W261	FB
P1093	W261	CU
P1094	W119	CG
P1096	W673	CK
P11	W668	BY
P110	W119	EY
P1100	W673	GM
P1101	W673	GM
P1102	W673	GM
P1103	W673	GM
P1104	W673	GM
P1121	W119	GC
P1142	W266	DA
P115	W155	BU
P116	W156	BU
P119	W119	AH
P12	W668	DX
P120	W118	AH
P121	W119	AI
P122	W119	FV
P1225	W266	ED
P1226	W213	DB
P1227	W266	GE
P1228	W266	GD
P123	W119	AG
P124	W171	EM
P125	W118	AH
P1257	W266	BY
P1258	W266	BY
P1259	W266	BY
P126	W118	AH
P1260	W266	BY
P127	W118	AI
P128	W118	EB
P129	W118	AY
P13	W108	BB
P1301	W213	CW
P1304	W480	GI
P131	W109	CL
P1350	W480	GI
P1370	W119	CG
P1376	W266	GL
P1377	W266	GJ
P14	W668	BT
P141	W157	AO
P142	W158	AO
P143	W266	FN
P170	W119	FE
P172	W119	FE
P173	W119	CO
P174	W119	FK
P175	W119	CK
P176	W118	DA
P178	W119	EL
P179	W119	FE
P18	W118	DT
P19	W118	DT
P190	W119	BY

CONNECTOR END VIEW DIRECTORY (cont)

CONN REF DES	WIRE HARN NO.	CONN CODE
P191	W119	FE
P2	W119	AV
P2	W605	ES
P2	W636	CA
P20	W118	BW
P200	W170	CP
P201	W170	CP
P208	W155	FX
P21	W165	DN
P213	W149	BU
P214	W164	BU
P217	W102	AP
P22	W166	DN
P220	W211	BY
P224	W115	BY
P226	W211	BY
P228	W211	BY
P23	W165	DN
P230	W119	AL
P231	W118	AL
P232	W118	AL
P233	W119	AL
P234	W119	AL
P235	W118	AL
P236	W118	AL
P237	W119	AL
P238	W102	CM
P239	W119	BY
P24	W166	DN
P242	W102	AQ
P243	W119	AO
P251	W268	AO
P253	W261	CM
P260	W268	CM
P261	W119	CM
P263	W118	BW
P264	W268	BW
P265	W119	AU
P275	W118	BY
P277	W117	DJ
P278	W117	DC
P279	W117	DJ
P280	W255	DJ
P281	W117	DT
P283	W108	AO
P284	W102	AO
P285	W119	CC
P286	W119	AO
P287	W119	BB
P289	W119	AJ
P290	W119	AJ
P291	W119	BJ
P292	W119	BY
P3	W119	AV
P3	W605	CH
P300	W266	DA
P302	W266	FK
P303	W266	FK
P31	W118	DA
P310	W266	CV
P312	W201	FU
P313	W209	FU
P314	W173	FU
P315	W266	FK
P317	W266	FK
P318	W266	FK
P319	W266	FK
P320	W266	FK
P321	W195	FU
P322	W197	FU
P323	W118	DK
P329	W173	FU
P33	W165	AO
P330	W209	FU
P332	W266	CO
P333	W266	BN
P334	W266	BN
P335	W266	CV
P336	W172	FU
P337	W210	FU
P34	W166	AO
P341	W212	FU
P342	W266	CV
P343	W190	FU
P344	W190	FU
P345	W212	FU
P348	W210	FU
P349	W172	FU

CONNECTOR END VIEW DIRECTORY (cont)

CONN REF DES	WIRE HARN NO.	CONN CODE	CONN REF DES	WIRE HARN NO.	CONN CODE	CONN REF DES	WIRE HARN NO.	CONN CODE
P35	W165	AO	P39	W165	AO	P42	W166	CM
P350	W266	EB	P391	W187	FU	P420	W102	FU
P351	W118	BY	P392	W188	FU	P421	W119	EJ
P36	W166	AO	P393	W199	FU	P423	W117	FK
P361	W224	CD	P394	W266	DP	P425	W117	FK
P362	W207	FU	P395	W266	GB	P426	W116	FK
P363	W183	FU	P397	W266	CK	P427	W211	BP
P364	W182	FU	P399	W266	BW	P428	W116	FK
P365	W184	FU	P4	W605	CH	P429	W119	FK
P366	W224	CC	P40	W166	AO	P430	W108	FK
P367	W207	FU	P400	W261	DM	P431	W211	FK
P368	W184	FU	P401	W261	DM	P432	W266	FK
P370	W102	EB	P402	W170	FK	P433	W119	FK
P371	W211	DS	P403	W119	FK	P435	W261	FK
P373	W183	FU	P404	W102	FK	P436	W102	FK
P374	W182	FU	P405	W261	FK	P437	W119	CS
P376	W203	FU	P407	W117	FK	P438	W118	FK
P377	W202	FU	P409	W261	FK	P439	W119	FK
P378	W202	FU	P41	W165	CM	P440	W118	FK
P379	W203	FU	P41O	W170	FK	P441	W119	FK
P381	W266	BW	P411	W117	FK	P442	W102	FK
P382	W266	CO	P413	W119	FK	P444	W268	FK
P383	W119	AN	P414	W116	AQ	P445	W211	FK
P384	W116	CK	P416	W118	FE	P446	W108	AE
P385	W118	CO	P418	W116	FK	P447	W211	FK
P388	W187	FK	P419	W117	FK	P448	W118	FK

CONNECTOR END VIEW DIRECTORY (cont)

CONN REF DES	WIRE HARN NO.	CONN CODE	CONN REF DES	WIRE HARN NO.	CONN CODE	CONN REF DES	WIRE HARN NO.	CONN CODE
P449	W211	FK	P478	W116	FK	P503	W117	CM
P45	W165	CM	P479	W261	FK	P504	W117	DS
P450	W118	BP	P480	W118	FK	P505	W601	DN
P452	W264	BF	P481	W119	FK	P506	W601	CY
P453	W117	EF	P482	WI18	FK	P507	W601	BW
P454	W116	EF	P483	W117	FK	P508	W601	EP
P455	W170	EF	P484	W116	FU	P51	W102	AH
P456	W118	FK	P485	W211	CI	P510	W119	AO
P457	W 119	FK	P486	W199	FU	P511	W601	EY
P458	W116	FK	P487	W119	FK	P512	W601	EE
P459	W211	FK	P488	W118	FK	P513	W601	CO
P46	w 166	CM	P49	W261	CU	P516	W601	FS
P461	W145	BS	P491	W211	FK	P518	W116	DU
P463	W119	EZ	P492	W102	AW	P519	W116	DS
P465	W119	FK	P493	W211	FK	P52	W268	AO
P466	WI18	FK	P494	W211	FK	P520	W116	EF
P467	W261	FK	P495	WI17	FU	P522	W116	DZ
P468	W266	FK	P496	W266	FK	P523	W117	FK
P469	W119	FK	P497	W211	FK	P524	W116	FK
P470	W264	FK	P498	W102	FK	P525	W601	CY
P471	W117	FK	P499	W211	FK	P526	W636	AG
P472	WI18	FK	P5	W605	FR	P527	W119	FK
P473	W119	FK	P5	W668	BY	P528	W118	FE
P474	W266	FE	P50	W102	CU	P529	W117	DG
P475	W119	FK	P501	W117	DF	P531	W116	GE
P477	W119	DZ	P502	W117	CO	P532	W116	CY

CONNECTOR END VIEW DIRECTORY **(cont)**

CONN REF DES	WIRE HARN NO.	CONN CODE	CONN REF DES	WIRE HARN NO.	CONN CODE	CONN REF DES	WIRE HARN NO.	CONN CODE
P533	W119	FK	P587	W157	ER	P646	W116	BY
P537	W117	FK	P588	W158	DR	P647	W117	BY
P538	W117	BY	P589	W158	ER	P648	W116	BY
P539	W255	CU	P59	W171	AG	P649	W117	BY
P54	W211	BY	P591	W266	FE	P65	W261	CM
P540	W255	FB	P592	W266	FE	P650	W116	BY
P541	W211	CP	P596	W255	BT	P653	W117	BY
P542	W211	AU	P599	W636	CA	P654	W116	BY
P543	W266	CO	P6	W668	DX	P655	W117	BY
P544	W255	CM	P60	W162	CB	P656	W116	BY
P55	W118	AG	P61	W161	CB	P657	W117	BY
P550	W116	GG	P62	W119	AO	P658	W116	BY
P551	W116	CC	P620	W116	BY	P659	W117	BY
P552	W116	FU	P621	W116	BX	P66	W261	CU
P553	W116	FU	P623	W116	AT	P660	W116	BY
P555	W116	FD	P63	W102	AO	P663	W211	BY
P56	W118	AG	P631	W255	BV	P664	W211	BY
P57	W118	AD	P632	W117	FA	P668	W255	DR
P570	W211	BT	P639	W117	BY	P67	W261	CU
P571	W102	DD	P64	W119	CC	P670	W255	DR
P572	W109	CC	P640	W116	BY	P671	W116	DR
P578	W167	AO	P641	W117	BY	P672	W116	DR
P579	W159	AO	P642	W116	BY	P673	W117	DR
P58	W171	AG	P643	W117	BY	P674	W116	DR
P581	W116	AW	P644	W116	BY	P679	W116	DR
P586	W157	DR	P645	W117	BY	P68	W261	CU

CONNECTOR END VIEW DIRECTORY **(cont)**

CONN REF DES	WIRE HARN NO.	CONN CODE	CONN REF DES	WIRE HARN NO.	CONN CODE	CONN REF DES	WIRE HARN NO.	CONN CODE
P680	W116	DR	P709	W178	FU	P761	W255	EA
P681	W255	DR	P710	W178	FU	P762	W119	FK
P682	W211	DR	P711	W177	FU	P763	W145	EJ
P683	W211	DR	P712	W177	FU	P766	W119	CN
P684	W117	DR	P713	W175	FU	P767	W117	EV
P685	W117	DR	P714	W175	FU	P768	W117	BK
P686	W211	DR	P715	W176	FU	P769	W145	BR
P688	W211	DR	P716	W176	FU	P78	W118	AU
P689	W255	FU	P717	W118	BW	P787	W261	FB
P690	W119	BT	P718	W118	FC	P79	WI18	AU
P691	W119	BU	P719	W181	DB	P791	W118	BE
P692	W211	AG	P721	W266	ED	P792	W118	CV
P693	W211	GD	P723	W266	CT	P797	W647	AU
P694	W211	GD	P725	W266	BZ	P798	W255	AU
P699	W255	DT	P73	W261	CM	P799	W266	DO
P7	W668	DA	P733	W181	CW	P8	W118	AV
P70	W261	CM	P74	W261	CU	P80	W108	ED
P700	W191	FU	P746	W118	AU	P81	W108	BX
P701	W154	FU	P747	W119	DA	P82	W164	AU
P702	W154	FU	P748	W119	DL	P83	W164	AU
P703	W154	FU	P75	W261	CU	P835	W255	DE
P704	W102	CK	P750	W118	CO	P836	W255	DE
P705	W191	FU	P754	W170	AC	P837	W255	DT
P706	W118	FU	P755	W211	DC	P838	W255	DT
P707	W118	FU	P756	W115	CM	P839	W255	EY
P708	W118	FU	P760	W170	AO	P84	W118	BT

CONNECTOR END VIEW DIRECTORY (cont)

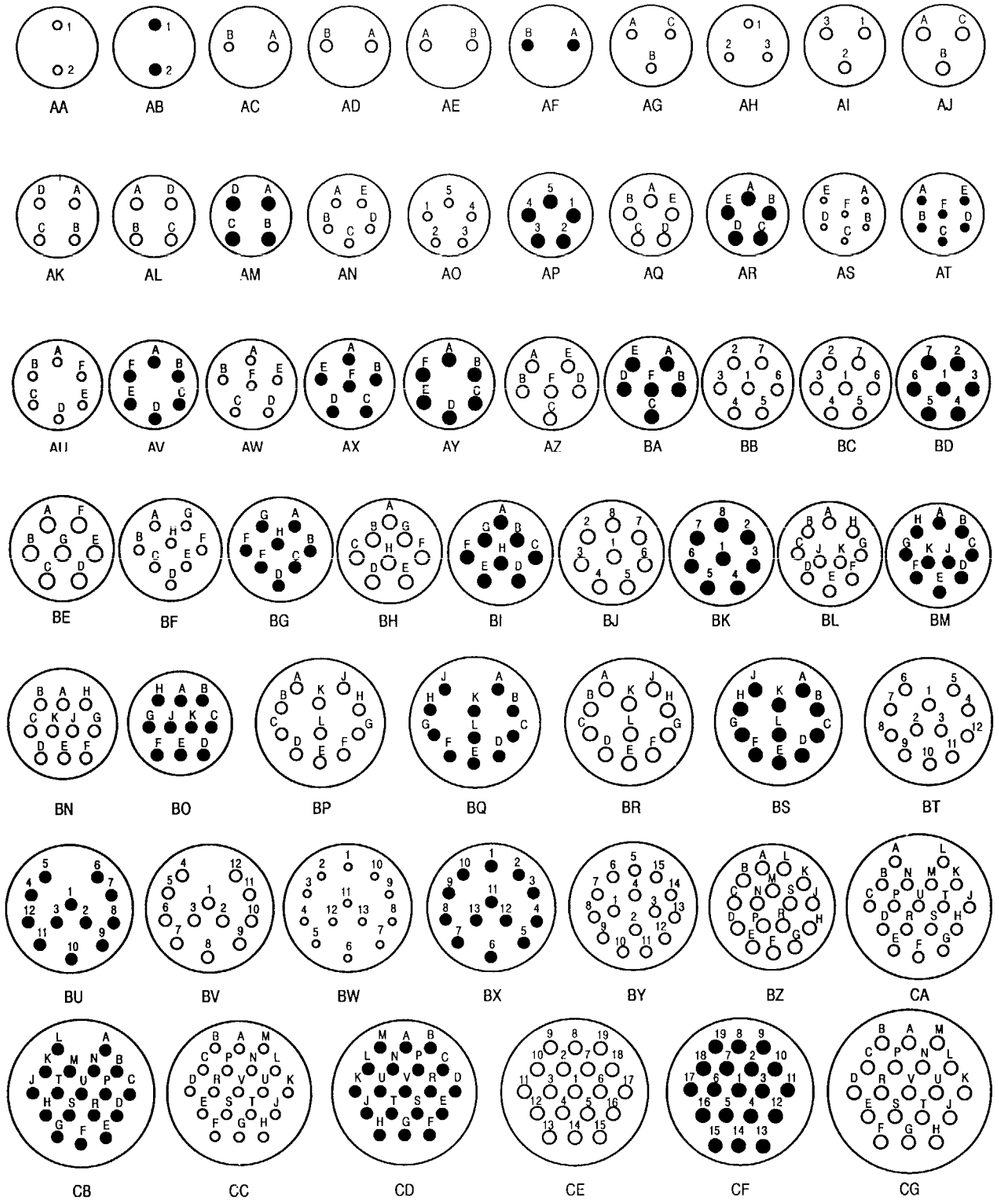
CONN REF DES	WIRE HARN NO.	CONN CONN CODE	WIRE REF DES	HARN NO	CONN CONN CODE	WIRE REF DES	HARN NO	CONN CODE
P840	W255	FU	P865	W116	BX	P903	W255	EK
P841	W255	FU	P866	W266	BX	P904	W116	CW
P842	W255	EY	P873	W234	DS	P905	W116	EX
P843	W255	DS	P874	W266	EC	P906	W116	FO
P844	W255	DS	P876	W226	BX	P907	W266	FK
P845	W255	DT	P877	W226	BW	P908	W118	FK
P848	W255	DT	P878	W234	GI	P909	W266	FK
P849	W255	ES	P879	W266	FU	P91	W118	CC
P85	W118	BT	P880	W266	GH	P910	W102	FK
P851	W255	FU	P881	W266	GH	P911	W189	GF
P852	W255	FU	P882	W266	DO	P912	W118	FK
P853	W255	DT	P883	W266	CL	P913	W262	CX
P855	W255	BH	P884	W266	CL	P914	W118	FK
P857	W255	FU	P889	W266	AM	P915	W118	FK
P861	W255	DT	P890	W266	FE	P916	W118	AW
P862	W255	DT	P891	W266	AM	P917	W262	CX
P863	W255	DT	P892	W116	AM	P919	W102	FK
P864	W255	DB	P894	W226	BW	P921	W116	FK
P867	W255	DC	P895	W227	GI	P922	W116	FK
P868	W255	FU	P896	W234	GI	P924	W262	CO
P87	W108	FY	P897	W266	AJ	P927	W262	CO
P870	W255	DQ	P9	W118	AV	P929	W262	CO
P871	W255	DQ	P90	W119	BT	P930	W262	CO
P872	W119	AO	P900	W116	DG	P931	W116	EW
P88	W149	AU	P901	W262	DH	P932	W116	EW
P89	W149	AU	P902	W262	DH	P935	W189	BW

CONNECTOR END VIEW DIRECTORY (cont)

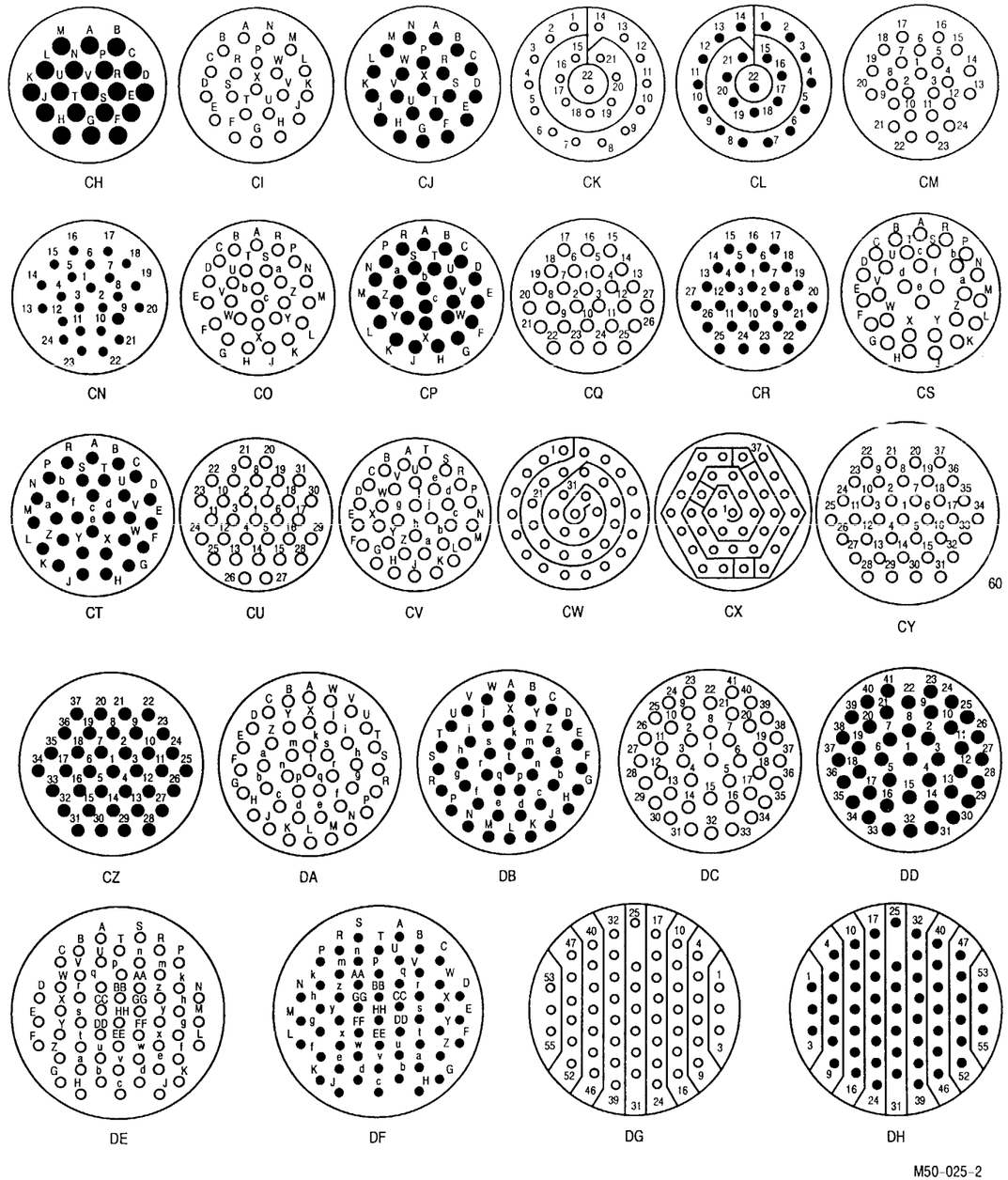
CONN REF DES	WIRE HARN NO.	CONN CONN CODE	WIRE REF DES	HARN NO	CONN CONN CODE	WIRE REF DES	HARN NO	CONN CODE
P937	W261	CC	P979	W206	FU			
P938	W119	BT	P98	W143	BW			
P939	W102	BT	P981	W119	BN			
P940	W268	AO	P982	W118	BN			
P941	W268	AA	P983	W211	BN			
P942	W118	AA	P984	W102	BN			
P943	W268	AA	P985	W211	DZ			
P944	W211	DD	P986	W211	CO			
P945	W119	AZ	P987	W211	CP			
P946	W119	EC	P989	W211	DT			
P947	W204	FU	P990	W211	CO			
P948	W205	FU	P991	W211	CP			
P949	W119	DV	P995	W189	DY			
P950	W118	CD	XJ332	W266	CP			
P951	W118	FC	XJ333	W266	BO			
P996	W170	DY	XJ529	W659	DH			
P953	W166	AA	XP529	W659	DG			
P954	W165	AA						
P956	W119	AO						
P96	W143	BU						
P971	W266	DA						
P972	W266	DA						
P974	W266	DA						
P975	W206	FU						
P976	W204	FU						
P977	W119	FK						
P978	W119	FK						

1–7. CONNECTOR END VIEW DIAGRAMS

The connector end view diagrams provide connector pin information and location.



M50-025-1



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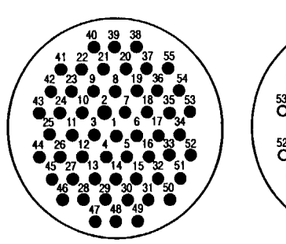

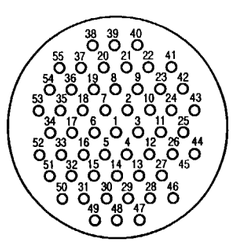

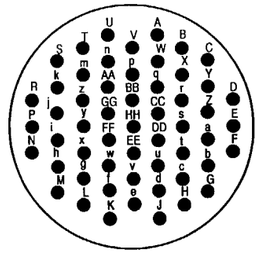

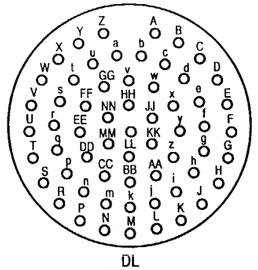

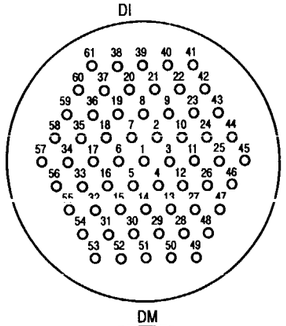

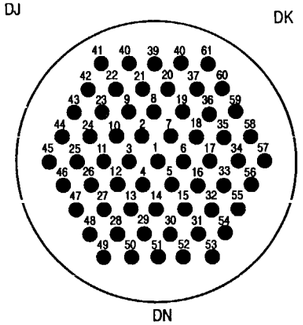

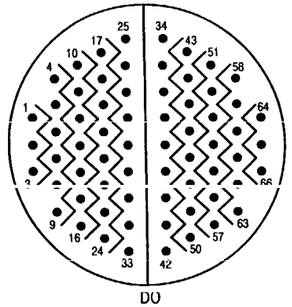

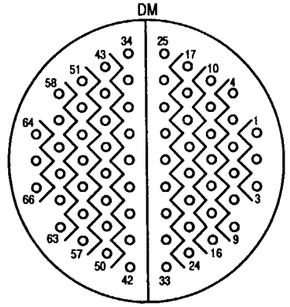

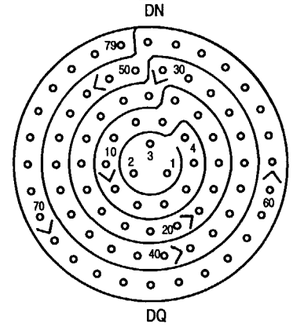

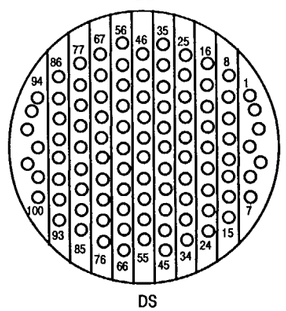

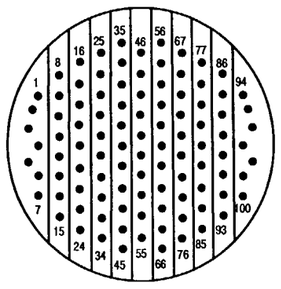

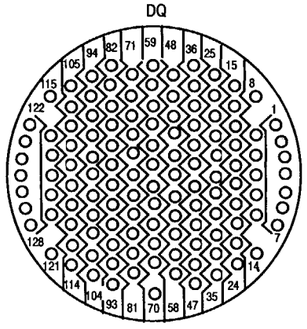

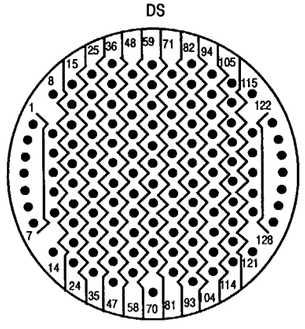

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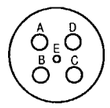

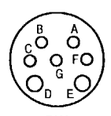

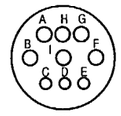

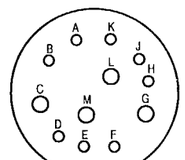

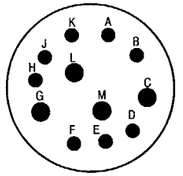

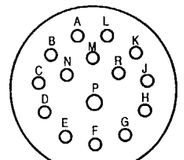

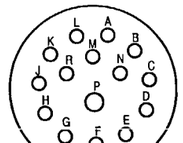

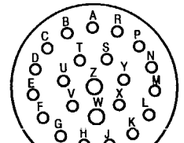

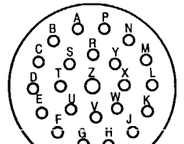

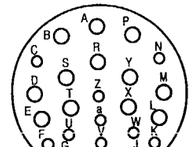

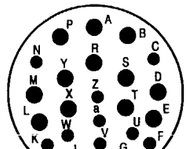

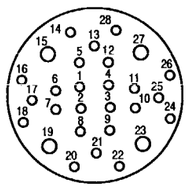

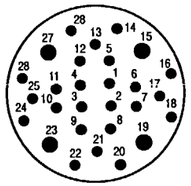

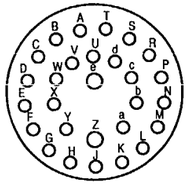

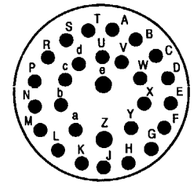

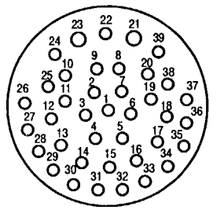

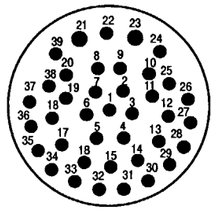

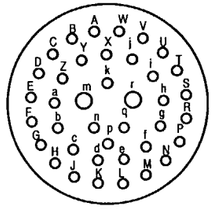

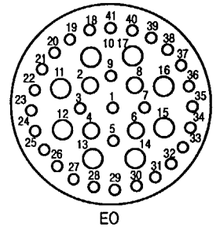

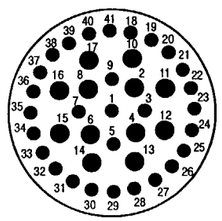

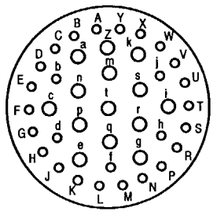

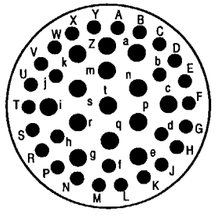

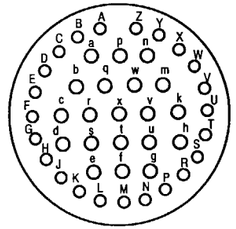

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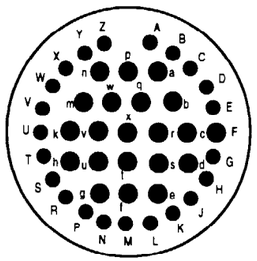
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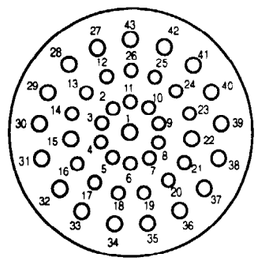
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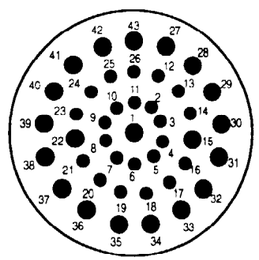
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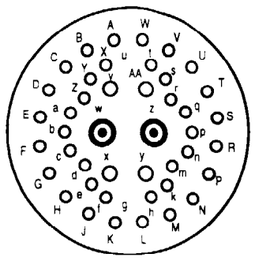
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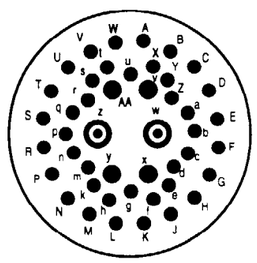
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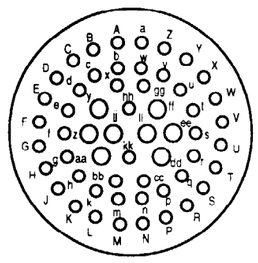
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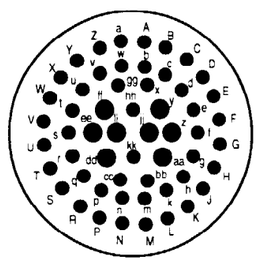
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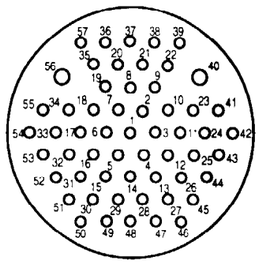
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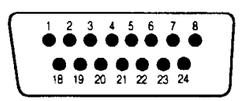
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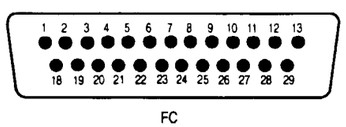
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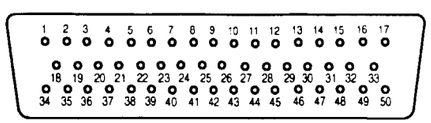
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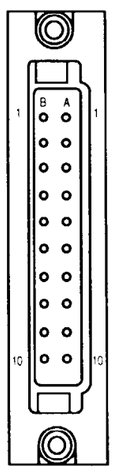
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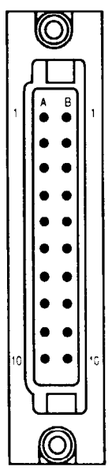
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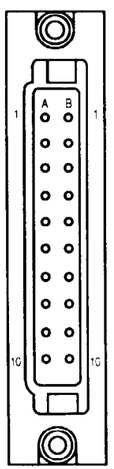
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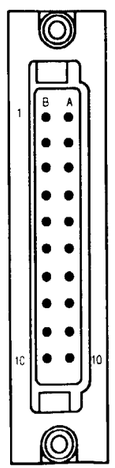
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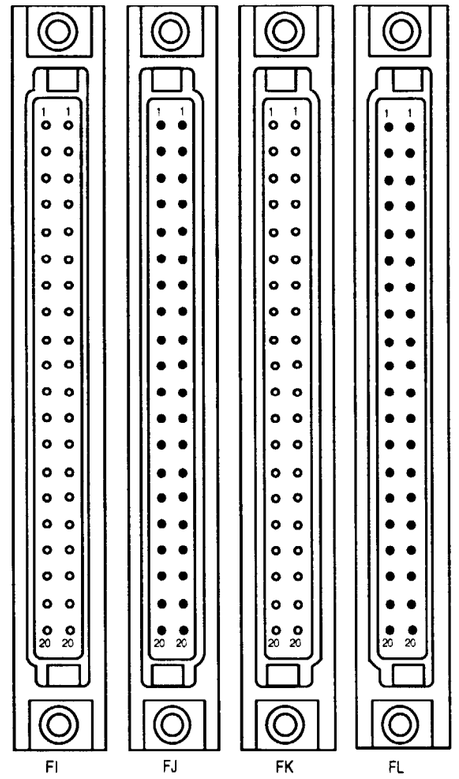
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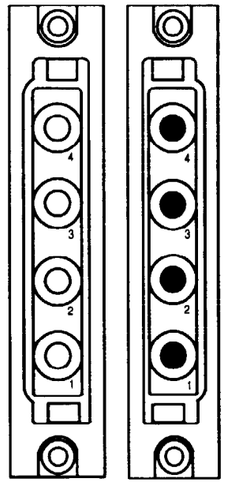
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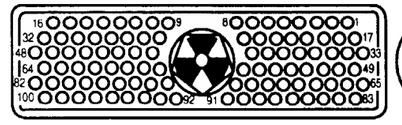
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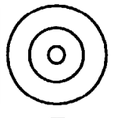
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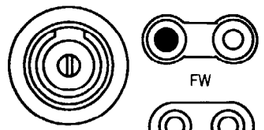
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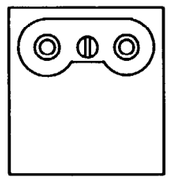
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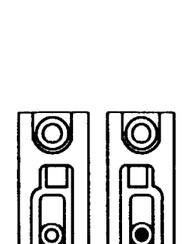
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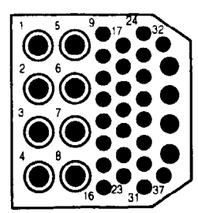
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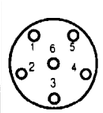
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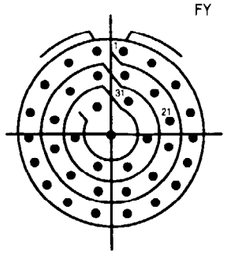
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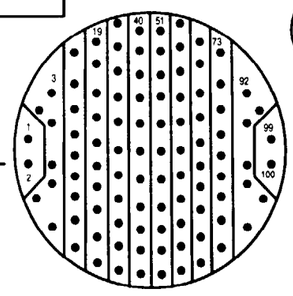
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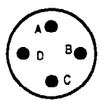
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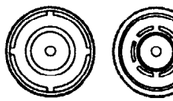
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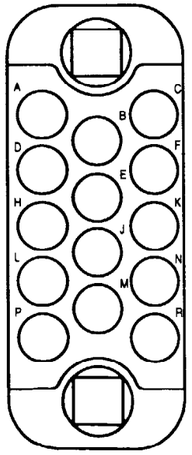
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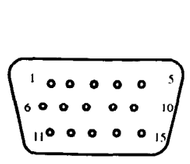

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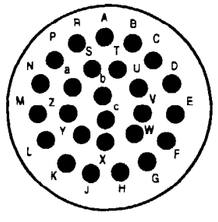

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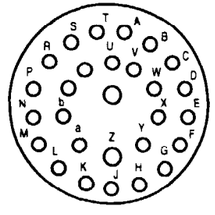

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M50-025-8A

Section IV. EFFECTIVITY CODES

The effectivity codes and helicopter serial number blocks for the AH-64A helicopter are as follows:

Effectivity Code	Helicopter Serial No.
AAA	82-23355 THRU 82-23365
AAB	82-23355 THRU 83-23798
AAC	82-23355 THRU 83-23814
AAD	85-25424 AND SUBSEQUENT
AAE	82-23355 THRU 84-24231
AAF	84-24216 AND SUBSEQUENT
AAG	82-23355 THRU 84-24289
AAH	82-23355 THRU 85-25398
AAJ	85-25351 AND SUBSEQUENT
AAK	82-23355 THRU 85-25488
AAL	88-0215 AND SUBSEQUENT
AAM	85-25465 AND SUBSEQUENT
AAN	83-23787 THRU 85-25415
AAP	82-23355 THRU 88-0214
AAQ	82-23355 THRU 84-24311
AAR	82-23355 THRU 84-24239
AAS	84-24240 AND SUBSEQUENT
AAT	82-23355 THRU 83-23804
AAU	83-23787 AND SUBSEQUENT
AAV	83-23805 AND SUBSEQUENT
AAW	83-23799 AND SUBSEQUENT
AAX	83-23799 THRU 84-24245
AAY	83-23799 THRU 85-25470 (BEFORE MWO 1-1520-238-50-37)
AAZ	83-23815 AND SUBSEQUENT
ABA	84-24200 AND SUBSEQUENT
ABB	84-24246 AND SUBSEQUENT
ABC	84-24290 AND SUBSEQUENT
ABD	82-23355 THRU 85-25415
ABE	82-23355 THRU 84-24295
ABF	84-24296 AND SUBSEQUENT
ABG	85-25399 AND SUBSEQUENT
ABH	82-23355 THRU 84-24245
ABJ	85-25447 AND SUBSEQUENT
ABK	82-23355 THRU 85-24446
ABL	82-23355 THRU 89-0215
ABM	84-24290 THRU 88-0199
ABN	89-0192 AND SUBSEQUENT
ABP	85-25471 AND SUBSEQUENT

Effectivity Code	Helicopter Serial No.
ABQ	86-8940 AND SUBSEQUENT
ABR	82-23355 THRU 84-24232
ABS	84-24233 AND SUBSEQUENT
ABT	82-23355 THRU 83-23816
ABU	83-23817 THRU 85-25415
ABV	84-24246 THRU 85-25398
ABW	82-23355 THRU 83-23795
ABX	83-23796 AND SUBSEQUENT
ABY	WITH T700-GE 701 ENGINES
ABZ	WITH T700-GE 701C ENGINES
ACA	82-23355 THRU 88-0199
ACB	88-0200 AND SUBSEQUENT
ACC	82-23355 THRU 83-23834
ACD	85-25416 AND SUBSEQUENT
ACE	82-23355 THRU 86-9011
ACF	82-23355 THRU 88-0284
ACG	89-0192 AND SUBSEQUENT
ACH	82-23355 THRU 85-25423
ACJ	82-23355 THRU 90-0290, 90-0292 THRU 90-0301 (BEFORE MWO 1-1520-238-50-07)
ACK	82-23355 THRU 90-0290, 90-0292 THRU 90-0301 (AFTER MWO 1-1520-238-50-07) 90-0291, 90-0302 AND SUBSEQUENT
ACL	82-23355 THRU 83-23814
ACM	83-23815 AND SUBSEQUENT
ACN	85-25471 THRU 90-0448 (BEFORE MWO 1-1520-238-50-37)
ACP	85-25471 THRU 90-0448 (AFTER MWO 1-1520-238-50-37) 90-0449 AND SUBSEQUENT
ACQ	82-23355 THRU 90-0448 (BEFORE MWO 1-1520-238-50-36)
ACR	82-23355 THRU 90-0448 (AFTER MWO 1-1520-238-50-36) 90-0449 AND SUBSEQUENT
ACS	82-23355 THRU 90-0437
ACT	90-0438 AND SUBSEQUENT
ACU	82-23355 THRU 90-0436
ACV	89-0192 THRU 90-0434 WITH T700-GE-701C ENGINES (BEFORE MWO 1-1520-238-50-38)
ACW	89-0192 THRU 90-0434 WITH T700-GE-701C ENGINES (AFTER MWO 1-1520-238-50-38) 90-0435 AND SUBSEQUENT WITH T700-GE-701C ENGINES
ACX	90-0479 AND SUBSEQUENT

Effectivity Code	Helicopter Serial No.
ACY	82-23355 THRU 92-0485 (BEFORE MWO 9-1230-476-50-01)
ACZ	82-23355 THRU 92-0485 (AFTER MWO 9-1230-476-50-01) 94-0328 AND SUBSEQUENT
ADA	BEFORE MWO 1-1520-238-50-40
ADB	AFTER MWO 1-1520-238-50-40
ADC	BEFORE MWO 1-1520-238-50-49
ADD	AFTER MWO 1-1520-238-50-49
ADE	87-0481 AND SUBSEQUENT
ADF	BEFORE MWO 1-1520-238-50-52
ADG	AFTER MWO 1-1520-238-50-52
ADH	BEFORE MWO 1-1520-238-50-15
ADI	AFTER MWO 1-1520-238-50-15
ADJ	82-23355 THRU 82-23361
ADK	82-23361 AND SUBSEQUENT
ADN	AN/APR-39(V)1 INSTALLED
ADO	AN/APR-39A(V)1 INSTALLED
ADP	AFTER MWO 1-1520-238-50-50

Section V. WIRING DIAGRAM DIRECTORY

WIRING DIAGRAM DIRECTORY

REFDES	COMPONENT	CABLE	PARA	WIRING DIAGRAM
1A68	MRTU TYPE II PYLON 1	W601	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
1A68	MRTU TYPE II PYLON 1	W601	11-1	EXTERNAL STORES CONTROL
1A68	MRTU TYPE II PYLON 1	W601	14-1	HELLFIRE MISSILE
1A68	MRTU TYPE II PYLON 1	W601	19-1	MULTIPLEX
1J1 (A304)	CONNECTOR	W266	20-2	DOPPLER NAVIGATION AN/ASN- 128
1J1 (A636)	CONNECTOR	W211	2-1	AIR DATA SYSTEM (ADS)
1J1 (A675)	CONNECTOR	W266	20-3	DOPPLER NAVIGATION AN/ASN-137 (ADC)
1J1 (A675)	CONNECTOR	W266	20-3A	DOPPLER NAVIGATION AN/ASN-137 (ADD)
1J1 (A82)	CONNECTOR	W261	13-3	FUEL QUANTITY INDICATION/TRANSFER
1J1 (A82)	CONNECTOR	W261	13-4	PRESSURE REFUELING/DEFUELING
1J1 (A82)	CONNECTOR	W261	18-1	ENGINE INSTRUMENTS
1Jl (RE305)	CONNECTOR	W266	9-19	EDGE LIGHTS
1J1 (RE305)	CONNECTOR	W266	9-27	AUDIO WARNING
1J1 (RE305)	CONNECTOR	W266	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
1J2 (A304)	CONNECTOR	W181	20-2	DOPPLER NAVIGATION AN/ASN-128
1J2 (A636)	CONNECTOR	W102	2-1	AIR DATA SYSTEM (ADS)
1J2 (A675)	CONNECTOR	W213	20-3	DOPPLER NAVIGATION AN/ASN-137 (ADC)
1J2 (A675)	CONNECTOR	W213	20-3A	DOPPLER NAVIGATION AN/ASN-137 (ADD)
1J2 (A82)	CONNECTOR	W261	9-18	CAUTION AND WARNING
1J2 (A82)	CONNECTOR	W261	13-3	FUEL QUANTITY INDICATION/TRANSFER
1J2 (A82)	CONNECTOR	W261	18-1	ENGINE INSTRUMENTS

WIRING DIAGRAM DIRECTORY

WIRING DIAGRAM DIRECTORY

REFDES	COMPONENT	CABLE	PARA	WIRING DIAGRAM
1J2 (RE305)	CONNECTOR	W224	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
1J3 (A304)	CONNECTOR	W266	20-2	DOPPLER NAVIGATION AN/ASN-128
1J3 (A636)	CONNECTOR	W211	2-1	AIR DATA SYSTEM (ADS)
1J3 (A636)	CONNECTOR	W211	12-1	DASE (BUCS DEACTIVATED)
1J3 (A636)	CONNECTOR	W211	12-2	DASE (BUCS ACTIVATED)
1J3 (A675)	CONNECTOR	W266	18-2	NAVIGATION INSTRUMENTS
1J3 (A675)	CONNECTOR	W266	20-3	DOPPLER NAVIGATION AN/ASN-137 (ADC)
1J3 (A675)	CONNECTOR	W266	20-3A	DOPPLER NAVIGATION AN/ASN-137 (ADD)
1J3 (RE305)	CONNECTOR	W207	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
1J4 (A675)	CONNECTOR	W266	20-3	DOPPLER NAVIGATION AN/ASN-137 ADC)
1J4 (A675)	CONNECTOR	W266	20-3A	DOPPLER NAVIGATION AN/ASN-137 (ADD)
1J4 (RE305)	CONNECTOR	W183	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
1J5 (RE305)	CONNECTOR	W185	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
1J505	CONNECTOR	W157	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
1J505	CONNECTOR	W157	11-1	EXTERNAL STORES CONTROL
1J505	CONNECTOR	W157	11-2	EXTERNAL STORES JETTISON
1J505	CONNECTOR	W157	14-1	HELLFIRE MISSILE
1J508	CONNECTOR	W157	14-1	HELLFIRE MISSILE
1J508	CONNECTOR	W157	19-1	MULTIPLEX
1J508 SP1	SPLICE	W157	19-1	MULTIPLEX

WIRING DIAGRAM DIRECTORY

REFDES	COMPONENT	CABLE	PARA	WIRING DIAGRAM
1J511 (A333)	CONNECTOR	W601	19-1	MULTIPLEX
1J511 (A333)	CONNECTOR	W601	14-1	HELLFIRE MISSILE
1J6 (RE305)	CONNECTOR	W184	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
2A68	MRTU TYPE II PYLON 2	W601	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
2A68	MRTU TYPE II PYLON 2	W601	11-1	EXTERNAL STORES CONTROL
2A68	MRTU TYPE II PYLON 2	W601	14-1	HELLFIRE MISSILE
2A68	MRTU TYPE II PYLON 2	W601	19-1	MULTIPLEX
2J1 (A109)	CONNECTOR	W109	2-1	AIR DATA SYSTEM (ADS)
2J1 (A136)	CONNECTOR	W244	201	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
2J1 (E322)	CONNECTOR	W181	20-2	DOPPLER NAVIGATION AN/ASN-128
2J1 (E352)	CONNECTOR	W213	20-3	DOPPLER NAVIGATION AN/ASN-137 (ADC)
2W1 (E352)	CONNECTOR	W213	20-3A	DOPPLER NAVIGATION AN/ASN-137 (ADD)
W2 (A136)	CONNECTOR	W207	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
2W505	CONNECTOR	W157	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
2W505	CONNECTOR	W157	11-1	EXTERNAL STORES CONTROL
2W505	CONNECTOR	W157	11-2	EXTERNAL STORES JETTISON
2505	CONNECTOR	W157	13-1	AUXILIARY FUEL
2W505	CONNECTOR	W157	14-1	HELLFIRE MISSILE
2W508	CONNECTOR	W157	14-1	HELLFIRE MISSILE
2J508	CONNECTOR	W157	19-1	MULTIPLEX
2W508 SP1	SPLICE	W157	19-1	MULTIPLEX
2508 SP2	SPLICE	W157	19-1	MULTIPLEX

WIRING DIAGRAM DIRECTORY

REFDES	COMPONENT	CABLE	PARA	WIRING DIAGRAM
2W511 (A333)	CONNECTOR	W601	14-1	HELLFIRE MISSILE
JW511 (A333)	CONNECTOR	W601	19-1	MULTIPLEX
3A68	MRTU TYPE II PYLON 3	W601	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
3A68	MRTU TYPE II PYLON 3	W601	11-1	EXTERNAL STORES JETTISON
3A68	MRTU TYPE II PYLON 3	W601	14-1	HELLFIRE MISSILE
3A68	MRTU TYPE II PYLON 3	W601	19-1	MULTIPLEX
3J1 (A174)	CONNECTOR	W266	9-19	EDGE LIGHTS
3J1 (A174)	CONNECTOR	W266	20-2	DOPPLER NAVIGATION AN/ASN-128
3J1 (AR350)	CONNECTOR	W184	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
3J2 (A174)	CONNECTOR	W266	18-2	NAVIGATION INSTRUMENTS
3J2 (A174)	CONNECTOR	W266	20-2	DOPPLER NAVIGATION AN/ASN-128
3J505	CONNECTOR	W158	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
3J505	CONNECTOR	W158	11-1	EXTERNAL STORES CONTROL
3J505	CONNECTOR	W158	11-2	EXTERNAL STORES JETTISON
3J505	CONNECTOR	W158	13-1	AUXILIARY FUEL
3J505	CONNECTOR	W158	14-1	HELLFIRE MISSILE
3J508	CONNECTOR	W158	14-1	HELLFIRE MISSILE
3J508	CONNECTOR	W158	19-1	MULTIPLEX
3J508 SP1	SPLICE	W158	19-1	MULTIPLEX
3J508 SP2	SPLICE	W158	19-1	MULTIPLEX
3J511 (A333)	CONNECTOR	W601	14-1	HELLFIRE MISSILE

WIRING DIAGRAM DIRECTORY (cont)

REFDES	COMPONENT	CABLE	PARAGRAPH	WIRING DIAGRAM
3J511 (A333)	CONNECTOR	W601	19-1	MULTIPLEX
4A68	MRTU TYPE II PYLON 4	W601	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
4A68	MRTU TYPE II PYLON 4	W601	11-1	EXTERNAL STORES CONTROL
4A68	MRTU TYPE II PYLON 4	W601	14-1	HELLFIRE MISSILE
4A68	MRTU TYPE II PYLON 4	W601	19-1	MULTIPLEX
4J1 (E351)	CONNECTOR	W183	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
4J2 (E351)	CONNECTOR	W182	20-1	AUTOMATIC DIRECTION FINDER (ADF) AN/ARN-89
4J505	CONNECTOR	W158	3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
4J505	CONNECTOR	W158	11-1	EXTERNAL STORES CONTROL
4J505	CONNECTOR	W158	11-2	EXTERNAL STORES JETTISON
4J505	CONNECTOR	W158	14-1	HELLFIRE MISSILE
4J508	CONNECTOR	W158	14-1	HELLFIRE MISSILE
4J508	CONNECTOR	W158	19-1	MULTIPLEX
4J508 SP1	SPLICE	W158	19-1	MULTIPLEX
4J508 SP2	SPLICE	W158	19-1	MULTIPLEX
4J511 (A333)	CONNECTOR	W601	14-1	HELLFIRE MISSILE
4J511 (A333)	CONNECTOR	W601	19-1	MULTIPLEX
A1 (A131)	FUEL LOGIC COMPONENT BOARD	W612	13-2	FUEL CROSSFEED/BOOST
A1 (A131)	FUEL LOGIC COMPONENT BOARD	W612	13-3	FUEL QUANTITY INDICATION/TRANSFER
A1 (A131)	FUEL LOGIC COMPONENT BOARD	W612	13-4	PRESSURE REFUELING/DEFUELING

WIRING DIAGRAM DIRECTORY (cont)

REFDES	COMPONENT	CABLE	PARAGRAPH	WIRING DIAGRAM
A1 (A133)	LOGIC COMPONENT BOARD	W625	9-19	EDGE LIGHTS
A1 (A133)	LOGIC COMPONENT BOARD	W625	9-20	CPG UTILITY AND SECONDARY LIGHTS
A1 (A133)	LOGIC COMPONENT BOARD	W625	9-25	NAVIGATION LIGHTS
A1 (A137)	DIODE BOARD	W611	12-1	DASE (BUCS DEACTIVATED)
A1 (A137)	DIODE BOARD	W611	12-2	DASE (BUCS ACTIVATED)
A1 (A137)	DIODE BOARD	W611	12-4	STABILATOR
A1 (A138)	DIODE BOARD	W616	25-6	FIRE DETECTION AND EXTINGUISHING
A1 (A181)	LOGIC COMPONENT BOARD	W619	9-19	EDGE LIGHTS
A1 (A181)	LOGIC COMPONENT BOARD	W619	9-20	CPG UTILITY AND SECONDARY LIGHTS
A1 (A402)	GENERATOR CONTROL 1	W668	9-1	AC ELECTRICAL POWER GENERATION
A1 (A58)	FUEL QUANTITY TRANSMITTER	W215	13-3	FUEL QUANTITY INDICATION/TRANSFER
A1 (A59)	FUEL QUANTITY TRANSMITTER	W214	13-3	FUEL QUANTITY INDICATION/TRANSFER
A10	APU FLAME DETECTOR (UPPER)		25-6	FIRE DETECTION AND EXTINGUISHING
A102	PILOT FIRE CONTROL PANEL		3-1	AERIAL ROCKET CONTROL SYSTEM (ARCS)
A102	PILOT FIRE CONTROL PANEL		4-1	AREA WEAPON SYSTEM (AWS)
A102	PILOT FIRE CONTROL PANEL		9-19	EDGE LIGHTS
A102	PILOT FIRE CONTROL PANEL		11-1	EXTERNAL STORES CONTROL
A102	PILOT FIRE CONTROL PANEL		14-1	HELLFIRE MISSILE