

DUTY AREA
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEMS TECHNICIAN (MOS 6323)

A. GENERAL, OPERATING AND SAFETY DUTIES

1. Operates and maintains applicable shop support/special equipment. (NOTE 1: Pubs not available. To be designated at a later time.)
2. Demonstrates/applies applicable safety precautions and procedures around the helicopter and work center.
3. Demonstrates/applies knowledge of applicable helicopter publications, diagrams, sketches and drawings.
4. Performs tasks on the helicopter using applicable precision measuring equipment.

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

1. Performs required scheduled/unscheduled inspections on applicable systems/components as per Maintenance Requirement Cards.
2. Incorporates applicable Technical Directives changes/bulletins.
3. Detects corrosion and performs corrosion control.
4. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Secure voice system using appropriate maintenance procedures and support/test equipment.
5. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Electronic countermeasures systems, using appropriate maintenance procedures and support/test equipment.(NOTE 1: Pubs to be designated at a later date.)
6. Demonstrates/applies knowledge of the principles of wire repair and performs applicable organizational level maintenance on the helicopter wiring using appropriate maintenance procedures and support/test equipment.
7. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the ICS system using appropriate maintenance procedures and support/test equipment.
8. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the UHF system using appropriate maintenance procedures and support/test equipment.
9. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the VHF/FM systems, using appropriate maintenance procedures and support/test equipment.
10. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the HF system using appropriate maintenance procedures and support/test equipment.
11. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the IFF system using appropriate maintenance procedures and support/test equipment.
12. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Attitude Heading Reference System (AHRS) using appropriate maintenance procedures and support/test equipment. (CH-53E)
13. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the MA-1 system using appropriate maintenance procedures and support/test equipment. (CH-53D)
14. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the TACAN system using appropriate maintenance procedures and support/test equipment.
15. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the VOR/ILS system using appropriate maintenance procedures and support/test equipment.

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16. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the VHF/UHF Direction Finder system (DF-301E) using appropriate maintenance procedures and support/test equipment.
17. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the LF/ADF system using appropriate maintenance procedures and support/test equipment.
18. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Infra-red Detecting Set (AN/AAQ-16B) using appropriate maintenance procedures and support/test equipment.
19. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Heads Up Display (HUD) using appropriate maintenance procedures and support/test equipment.
20. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Global Positioning System (GPS) using appropriate maintenance procedures and support/test equipment.
21. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the radar altimeter system using appropriate maintenance procedures and support/test equipment.
22. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Ground Proximity Warning System (GPWS) using appropriate maintenance procedures and support/test equipment.
23. Performs applicable organizational level maintenance actions common to associated communications/navigation system components using appropriate maintenance procedures and support/test equipment.
24. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Auxiliary Power Plant (APP) electrical system using appropriate maintenance procedures and support/test equipment.
25. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the electrical systems using appropriate maintenance procedures and support/test equipment.
26. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the hydraulic systems using appropriate maintenance procedures and support/test equipment.
27. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the rotor brake system using appropriate maintenance procedures and support/test equipment.
28. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the ramp & door system using appropriate maintenance procedures and support/test equipment.
29. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the engine start & ignition system using appropriate maintenance procedures and support/test equipment.
30. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the indicating systems using appropriate maintenance procedures and support/test equipment.
31. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the EAPS electrical system using appropriate maintenance procedures and support/test equipment.
32. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the fire warning system using appropriate maintenance procedures and support/test equipment.
33. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the fire extinguisher system using appropriate maintenance procedures and support/test equipment.
34. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the fuel systems using appropriate maintenance procedures and support/test equipment.

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35. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the chip detector system using appropriate maintenance procedures and support/test equipment.
36. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the rotor positioning systems using appropriate maintenance procedures and support/test equipment.
37. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the rotor system using appropriate maintenance procedures and support/test equipment.
38. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the landing gear system using appropriate maintenance procedures and support/test equipment.
39. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the cargo hook systems using appropriate maintenance procedures and support/test equipment.
40. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the cargo hook/winch using appropriate maintenance procedures and support/test equipment. (H-53D)
41. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the utility hoist system using appropriate maintenance procedures and support/test equipment. (H-53D/E)
42. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the ice detection system using appropriate maintenance procedures and support/test equipment.
43. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the IBIS indicating system using appropriate maintenance procedures and support/test equipment.
44. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the flight control position indicating system using appropriate maintenance procedures and support/test equipment. (CH-53E)
45. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the attitude indicating system using appropriate maintenance procedures and support/test equipment.
46. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the dual digital automatic flight control systems using appropriate maintenance procedures and support/test equipment. (CH-53E)
47. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the flight control systems using appropriate maintenance procedures and support/test equipment. (H-53D)
48. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the caution/advisory system using appropriate maintenance procedures and support/test equipment. (CH-53E)
49. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the engine monitoring systems using appropriate maintenance procedures and support/test equipment.
50. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the transmission system using appropriate maintenance procedures and support/test equipment.
51. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the pitot static system using appropriate maintenance procedures and support/test equipment.
52. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the windshield anti-ice system using appropriate maintenance procedures and support/test equipment.
53. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the interior/exterior lighting systems using appropriate maintenance procedures and support/test equipment.
54. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the relay/control panels using appropriate maintenance procedures and support/test equipment.

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55. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the power plant systems using appropriate maintenance procedures and support/test equipment.
56. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the utility systems using appropriate maintenance procedures and support/test equipment.
57. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the interior/exterior light using appropriate maintenance procedures and support/test equipment. (H-53D)
58. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the instrument systems using appropriate maintenance procedures and support/test equipment. (H-53D)

SKILL PROGRESSION LEVEL DEFINITIONS

LEVEL I: An asterisk in Level I indicates the task is taught at the "entry level (A) School".

LEVEL II: An asterisk in Level II indicates the task is taught at the NAMTRA MARUNIT. Other tasks in Level II not indicated with an asterisk will be signed off when exposed to the individual for the first time. All subsequent training in which the Marine performs after initial exposure should be annotated on the OPNAV 4790/33 form until he\she is signed off in level III.

LEVEL III: An asterisk in level III indicates the task is considered training essential. A sign-off in Level III indicates the marine can perform that task w/o supervision. The unit is responsible for these sign-offs.

LEVEL IV Used by the unit to indicate an individual is advanced in technical and supervisory functions. Prior to sign-off, all training essential and training optional tasks in level III must be signed-off. Only one sign-off for the duty area is required.

Sign-off blanks: (MO/YR)/(INDIVIDUAL'S INITIALS)/(SUPERVISOR'S INITIALS)

Note: Refer to MCO P4790.20_ for further clarification.

INDIVIDUAL DUTY AREA QUALIFICATION SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEMS TECHNICIAN (MOS 6323)

NAME / SSN: _____

GRANTED MOS 6311 _____ /
GRANTED MOS 6323 _____ /

LEVEL II Completed /
LEVEL III Completed /
LEVEL IV Completed /

DUTY #	DUTY DESCRIPTION	LEVEL I DATE/SIGN	LEVEL II DATE / SIGN	LEVEL III DATE / SIGN	LEVEL IV DATE / SIGN
A.	GENERAL, OPERATIONAL AND SAFETY DUTIES	XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
A.1	SUPPORT/SPECIAL EQUIPMENT	XXXXXXXXXXXXXX	/	/	/
A.2	SAFETY PRECAUTIONS AND PROCEDURES	XXXXXXXXXXXXXX	/	/	/
A.3	HELICOPTER PUBLICATIONS, DIAGRAMS, SKETCHES AND DRAWINGS	XXXXXXXXXXXXXX	/	/	/
A.4	PRECISION MEASURING EQUIPMENT	/	/	/	/
B.	SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES	XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
B.1	REQUIRED SCHEDULED/UNSCHEDULED INSPECTIONS	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/
B.2	TECHNICAL DIRECTIVES CHANGES/BULLETINS	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.3	CORROSION CONTROL	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.4	SECURE VOICE SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.5	ELECTRONIC COUNTERMEASURES SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.6	HELICOPTER WIRING	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.7	ICS SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.8	UHF SYSTEM	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/
B.9	VHF/FM SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.10	HF SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.11	IFF SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.12	ATTITUDE HEADING REFERENCE SYSTEM (AHRS)	XXXXXXXXXXXXXX	/	/	/
B.13	MA-1 SYSTEM	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.14	TACAN SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.15	VOR/ILS SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.16	VHF/UHF DF SYSTEM (DF-301E)	XXXXXXXXXXXXXX	/	XXXXXXXXXXXXXX	/
B.17	LF/ADF SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.18	INFRA-RED DETECTING SET (AN/AAQ-16B)	XXXXXXXXXXXXXX	/	/	/
B.19	HEADS UP DISPLAY (HUD)	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/
B.20	GLOBAL POSITIONING SYSTEM (GPS)	XXXXXXXXXXXXXX	/	/	/
B.21	RADAR ALTIMETER SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.22	GROUND PROXIMITY WARNING SYSTEM (GPWS)	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.23	ASSOCIATED COMMUNICATIONS/NAVIGATION SYSTEM COMPONENTS	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/
B.24	AUXILIARY POWER PLANT (APP) ELECTRICAL SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.25	ELECTRICAL SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.26	HYDRAULIC SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.27	ROTOR BRAKE SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.28	RAMP & DOOR SYSTEM	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.29	ENGINE START & IGNITION SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.30	INDICATING SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.31	EAPS ELECTRICAL SYSTEM	XXXXXXXXXXXXXX	/	/	/

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DUTY #	DUTY DESCRIPTION	LEVEL I DATE/SIGN	LEVEL II DATE / SIGN	LEVEL III DATE / SIGN	LEVEL IV DATE / SIGN
B.32	FIRE WARNING SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.33	FIRE EXTINGUISHER SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.34	FUEL SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.35	CHIP DETECTOR SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.36	ROTOR POSITIONING SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.37	ROTOR SYSTEM	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.38	LANDING GEAR SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.39	CARGO HOOK SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.40	CARGO HOOK/WINCH	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.41	UTILITY HOIST SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.42	ICE DETECTION SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.43	IBIS INDICATING SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.44	FLIGHT CONTROL POSITION INDICATING SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.45	ATTITUDE INDICATING SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.46	DUAL DIGITAL AUTOMATIC FLIGHT CONTROL SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.47	FLIGHT CONTROL SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.48	CAUTION/ADVISORY SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.49	ENGINE MONITORING SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.50	TRANSMISSION SYSTEM	XXXXXXXXXXXXXX		/	/
B.51	PITOT-STATIC SYSTEM	XXXXXXXXXXXXXX	/	/	/
B.52	WINDSHIELD ANTI-ICE SYSTEM	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.53	INTERIOR/EXTERIOR LIGHTING SYSTEMS	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.54	RELAY/CONTROL PANELS	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.55	POWER PLANT SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.56	UTILITY SYSTEMS	XXXXXXXXXXXXXX	/	/	/
B.57	INTERIOR/EXTERIOR LIGHT	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/
B.58	INSTRUMENT SYSTEMS	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	/	/

INDIVIDUAL QUALIFICATION RECORD
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEMS TECHNICIAN (MOS 6323)

A. GENERAL, OPERATING AND SAFETY DUTIES

A.1 Operates and maintains applicable shop support/special equipment. (NOTE 1: Pubs not available. To be designated at a later time.)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Environmental wire repair kit	NA01-1A-505 A1-H53XX-WDM-000 A1-H53XX-GAI-000		/ /	* / /	
B	Environmental connector repair kit	NA01-1A-505 A1-H53XX-WDM-000 A1-H53XX-GAI-000		/ /	* / /	
C	Operates AN/APM-378 test set	A1-H53XX-TTM-XX		/ /	/ /	
D	Operates AN/APM-123 test set	A1-H53XX-TTM-XX	*	/ /	* / /	
E	Operates TTU-205C/E test set	A1-H53XX-TTM-XX	*	/ /	* / /	
F	Operates MC-1000 compass calibrator test set	NA17-15CAA-45		/ /	* / /	
G	Operates AN/URM-101B, TACAN test set	A1-H53XX-TTM-XX	*	/ /	* / /	
H	Operates ramp test set	A1-H53XX-TTM-XX	*	/ /	* / /	
I	Operates AN/APM-230A, radar beacon test set	A1-H53XX-TTM-XX		/ /	/ /	
J	Operates AN/ALM-70, ALE-39 test set	NOTE 1		/ /	/ /	
K	Operates SM-647/UPM, APR-39 test set	NOTE 1		/ /	/ /	
L	Operates AAR-47 test set	NOTE 1		/ /	* / /	

A.2 Demonstrates/ applies applicable safety precautions and procedures around the helicopter and work center.

A	Ground occupational safety & health programs in specific areas					
A-1	First aid procedures	Marine BST/ Essential Subjects book		/ /	* / /	
A-2	Use of solvents/paints/strippers/ sealants (Shelf Life)	OSHA 29 CFR 1910 DOD 414027-M Local Maint Instr		/ /	* / /	
A-3	Hazardous material	OPNAVINST 4790.2 OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1 Local Maint Instr		*	/ /	
A-4	Safety procedures near electricity	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1 Local Maint Instr		*	/ /	
A-5	Entry into confined spaces	Local Maint Instr		/ /	/ /	
A-6	Composite material safety	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1		/ /	* / /	

DA A.2 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A-7	Gas free engineering	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1		/ /	* / /	
A-8	Shop & safety equipment					
A-8.1	Safety boots	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1 Local Maint Instr		* / /	* / /	
A-8.2	Protective clothing	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1 Local Maint Instr		* / /	* / /	
A-8.3	Proper eye protection	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1 Local Maint Instr		* / /	* / /	
A-8.4	Proper hearing protection	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1 Local Maint Instr		* / /	* / /	
A-8.5	Safety markings	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1 Local Maint Instr		* / /	* / /	
B	Precautions & procedures on/ around helicopter & support equipment					
B-1	Safety procedures around turning helicopter	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P-5100-1 Local Maint Instr		/ /	* / /	
B-2	Safety procedures near helicopter when applying or removing electrical power	A1-H53XX-GAI-000 Local Maint Instr		* / /	* / /	
B-3	APP pre-flight/ start procedures	A1-H53XX-GAI-000		* / /	* / /	
B-4	Safety procedures on/ near helicopter with use of hydraulic power	A1-H53XX-GAI-000 Local Maint Instr		* / /	* / /	
B-5	Safety procedures on/ near helicopter with ordnance	A1-H53XX-GAI-000 Local Maint Instr		* / /	* / /	
B-6	Safety procedures when jacking helicopter or while on jacks	A1-H53XX-GAI-000 Local Maint Instr		/ /	* / /	
B-7	Safety procedures near helicopter maintenance platforms	A1-H53XX-GAI-000 Local Maint Instr		* / /	* / /	
B-8	Safety procedures when washing helicopter	A1-H53XX-GAI-000 NA01-1A-509 Local Maint Instr		/ /	* / /	
B-9	Safety procedures near support equipment operations	A1-H53XX-GAI-000 Local Maint Instr		* / /	* / /	

DA A.2 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Line emergency procedures					
C-1	Types of fire extinguishers	A1-H53XX-GAI-000 NAVAIR A1-NAOSH-SAF-000/P-5100-1		/ /	* / /	
C-2	Emergency egress procedures	A1-H53XX-GAI-000		/ /	/ /	
C-3	Fire fighting					
C-3.1	Proper extinguishing for composite fire	A1-H53XX-GAI-000		/ /	* / /	
C-3.2	Proper extinguishing for brake fire	A1-H53XX-GAI-000		/ /	* / /	
C-3.3	Proper extinguishing for engine fire	A1-H53XX-GAI-000		/ /	* / /	
C-3.4	Procedures when aircraft has loss of brakes	NATOPS		/ /	* / /	
C-3.5	Procedures rotor brake fire	A1-H53XX-GAI-000		/ /	/ /	
C-4	Emergency hand signals	A1-H53XX-GAI-000	*	/ /	* / /	
D	Hydraulic contamination	OPNAVINST NA 01-1A-17 Local Maint Instr	*	/ /	* / /	
E	EMI/ESD	OPNAVINST 4790.2 Local Maint Instr	*	/ /	* / /	
F	Emergency reclamation	OPNAVINST 4790.2 Local Maint Instr	*	/ /	* / /	
G	Wheels up landing procedures	OPNAVINST 4790.2 Local Maint Instr	*	/ /	* / /	
H	Tire and wheel safety procedures	OPNAVINST 4790.2 Local Maint Instr	*	/ /	* / /	

A.3 Demonstrates / applies knowledge of applicable helicopter publications, diagrams, sketches and drawings.

A	Naval Aviation Maintenance Program, (NAMP)	OPNAVINST 4790.2 Series		*	/	/	*	/	/
B	Principles of Operation Manual	A1-H53XX-POM-100		*	/	/	*	/	/
C	Testing & Troubleshooting Manual	A1-H53XX-TTM-XXX		*	/	/	*	/	/
D	General Aircraft Information (H53A/D/E)	A1-H53XX-GAI-000		*	/	/	*	/	/
E	Maintenance Procedures Manuals	A1-H53XX-XXX-000		*	/	/	*	/	/
F	Illustrated Parts Breakdown Manual, (IPB's)	A1-H53XX-XXX-400		*	/	/	*	/	/
G	Numerical Index								
H	Maintenance Requirement Cards, (MRC's)	A1-H53XX-MRC-XXX		*	/	/	*	/	/
I	Aerospace Ground Equipment	A1-H53XX-GSE-XXX		*	/	/	*	/	/
J	Wire connector manual	A1-H53XX-WCR-000		/	/		*	/	/
K	Wiring Data Manual	A1-H53XX-WDM-XXX		*	/	/	*	/	/
L	Wiring Repair Manual	NA01-1A-505		/	/		*	/	/
M	Work Unit Code Manual	NA01-230HM-8		*	/	/	*	/	/
N	Aviation Hydraulics Manual	NA01-1A-17		/	/		*	/	/
O	Aircraft Cleaning & Corrosion Control Manual	NA01-1A-509		/	/		*	/	/
P	Avionics Cleaning & Corrosion Control Manual	NA16-1-540		/	/		*	/	/

DA A.3 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
Q	Support Equipment Corrosion Manual	NA17-1-125		/ /	/ /	
R	Preservation of Naval Aircraft	NA15-01-500		/ /	* / /	
S	NATOPS Manual	A1-H53XX-NFM-000 NA 01-230HMA-1		/ /	/ /	
T	Safety Manual	OSHA 29 CFR 1910	*	/ /	* / /	
U	Safety Requirement for Naval Aviation Shore Activities	NA A1-NAOSH-SAF-000/P-5100-1		*	/ /	
V	Pre-operational inspection of support equipment	NA17-600-series NA19-600-series		*	/ /	

A.4 Performs tasks on the helicopter using applicable precision measuring equipment.

A	Operates multi-meter	A1-H53XX-GSE-000	*	*	/ /	*	/ /	
B	Operates time domain reflect meter test set	NA01-1A-505 A1-H53XX-GSE-000	*		/ /	*	/ /	
C	Operates tacan test set	A1-H53XX-GSE-000	*	/	/	*	/ /	
D	Operates IFF test set	A1-H53XX-GSE-000	*	/	/	*	/ /	
E	Operates radar beacon test set	A1-H53XX-GSE-000			/ /	*	/ /	
F	Operates air pressure temperature test set	A1-H53XX-GSE-000	*	/	/	*	/ /	
G	Operates compass calibration test set	A1-H53XX-GSE-000			/ /	*	/ /	
H	Operates A501-MA-1 line test set	A1-H53XX-GSE-000			/ /	*	/ /	

INDIVIDUAL QUALIFICATION RECORD
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEMS TECHNICIAN (MOS 6323)

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

B.1 Performs required scheduled/unscheduled inspections on applicable systems/components as per Maintenance Requirement Cards.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Periodic Maintenance Information Cards	A1-H53XX-MRC-000 NA 01-230HMA-6-3			/ /	/ /	
B	Turnaround Checklist Requirement Cards	A1-H53XX-MRC-100 NA 01-230HMA-6-3			/ /	/ /	
C	Daily/Servicing Requirement Cards	A1-H53XX-MRC-200 NA 01-230HMA-6-2			/ /	/ /	
D	Special/conditional/preservation inspection	A1-H53XX-MRC-300 NA 01-230HMA-6-3			/ /	/ /	
E	Performs phase maintenance requirements	A1-H53XX-MRC-400 NA 01-230HMA-6-4			/ /	/ /	
F	Performs acceptance/ transfer inspections	OPNAVINST 4790.2			/ /	/ /	

B.2 Incorporates applicable Technical Directives changes/ bulletins.

A	Rapid Action Minor Engineering Change (RAMEC) Proposals	NAVAIRINST 5215.10			/ /	* / /	
B	Incorporates Technical Directives changes/bulletins	OPNAVINST 4790.2			/ /	* / /	

B.3 Detects corrosion and performs corrosion control.

A	Performs corrosion detection during all maintenance actions performed on the aircraft	NA16-1-540 NA01-1A-509 A1-H53AD-800-000			/ /	* / /	
B	Performs corrosion prevention during all maintenance actions performed on the aircraft	NA16-1-540 NA01-1A-509 A1-H53AD-800-000			/ /	* / /	
C	Performs corrective action on corrosion discrepancies found on the aircraft/components	NA16-1-540 NA01-1A-509 A1-H53AD-800-000			/ /	* / /	
D	Performs corrosion Detection/ prevention on support equipment	OPNAVINST 4790.2			/ /	* / /	

B.4 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the secure voice system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Secure voice system	A1-H53XX-POM-2XX			* / /	* / /	

DA B.4 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL 1	LEVEL II	LEVEL III	LEVEL IV
B	Functional check						
B-1	Secure voice system	A1-H53XX-TTM-200 A1-H53XX-POM-2XX			/ /	* / /	
C	Fault isolation						
C-1	Secure voice system	A1-H53XX-TTM-200 A1-H53XX-POM-2XX	67411		/ /	/ /	
D	Organizational maintenance						
D-1	R&R processor/adapter	A1-H53XX-600-000	67411		/ /	/ /	
D-2	R&R control box	A1-H53XX-600-000	63Y1W		/ /	/ /	

B.5 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **electronic countermeasures systems**, using appropriate maintenance procedures and support/test equipment. (NOTE 1: Pubs to be designated at a later date.)

A	Theory of operation						
A-1	ALE-39 system	A1-H53-(Note 1)		*	/ /	/ /	
A-2	APR-39 system	A1-H53-		*	/ /	/ /	
A-3	AAR-47 system	Note 1		*	/ /	* / /	
B	Functional check						
B-1	ALE-39 system	A1-H53-		/ /	/ /		
B-2	APR-39 system	A1-H53-		/ /	/ /		
B-3	AAR-47 system	Note 1		/ /	*	/ /	
C	Fault isolation						
C-1	ALE-39 system			/ /		/ /	
C-1.1	Programmer	A1-H53 -	766M1	/ /		/ /	
C-1.2	Dispenser control	A1-H53 -	766M5	/ /		/ /	
C-1.3	Arming control	A1-H53 -	766MB	/ /		/ /	
C-1.4	Dispensers (2)	A1-H53 -	7665G	/ /		/ /	
C-1.5	Dispenser housing (2)	A1-H53 -	7665J	/ /		/ /	
C-1.6	Sequencer switches (2)	A1-H53 -	766M2	/ /		/ /	
C-2	APR-39 system						
C-2.1	Control panel	A1-H53 -(Note 1)	766W1	/ /		/ /	
C-2.2	Receiver (2)	A1-H53 -	766W4	/ /		/ /	
C-2.3	Radar signal indicator	A1-H53 -	766W2	/ /		/ /	
C-2.4	Comparator	A1-H53 -	766W5	/ /		/ /	
C-2.5	Spiral antennas (4)	A1-H53 -	766W8	/ /		/ /	
C-2.6	Blade antenna	(Note 1)	766W6	/ /		/ /	
C-3	AAR-47 system	(Note 1)		/ /		* / /	
C-3.1	Sensors (4)	(Note 1)		/ /		/ /	
C-3.2	CPU-computer processor unit	(Note 1)		/ /		/ /	
C-3.3	Control Panel	(Note 1)		/ /		/ /	
D	Organizational maintenance						
D-1	ALE-39 system			/ /		/ /	
D-1.1	R&R programmer	A1-H53 -	766M1	/ /		/ /	

DA B.5 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-1.2	R&R dispenser control	A1-H53 -	766M5	/ /	/ /	/ /	
D-1.3	R&R arming control	A1-H53 -	766MB	/ /	/ /	/ /	
D-1.4	R&R dispensers (2)	A1-H53 -	7665G	/ /	/ /	/ /	
D-1.5	R&R dispenser housing (2)	A1-H53 -	7665J	/ /	/ /	/ /	
D-1.6	R&R sequencer switches (2)	A1-H53 -	766M2	/ /	/ /	/ /	
D-2	APR-39 system			/ /	/ /	/ /	
D-2.1	R&R control panel	A1-H53 -	766W1	/ /	/ /	/ /	
D-2.2	R&R receiver (2)	A1-H53 -	766W4	/ /	/ /	/ /	
D-2.3	R&R radar signal indicator	A1-H53 -	766W2	/ /	/ /	/ /	
D-2.4	R&R comparator	A1-H53 -	766W5	/ /	/ /	/ /	
D-2.5	R&R spiral antennas (4)	A1-H53 -	766W8	/ /	/ /	/ /	
D-2.6	R&R blade antenna	A1-H53 -	766W6	/ /	/ /	/ /	

B.6 Demonstrates/applies knowledge of the principles of wire repair and performs applicable organizational level maintenance on the helicopter wiring using appropriate maintenance procedures and support/test equipment.

A	Utilizes DMC-386 pin kit	NA01-1A-505		/ /	* / /	
B	Utilizes HT-900 heating tool	NA01-1A-505		/ /	* / /	
C	Uses crimpers	NA01-1A-505		/ /	* / /	
D	Uses insertion & removal tools for rear release connectors	NA01-1A-505		/ /	* / /	
E	Uses wire strippers	NA01-1A-505		/ /	/ /	
F	Uses wire type list	NA01-1A-505		/ /	/ /	
G	Repairs single stranded wires	NA01-1A-505		/ /	* / /	
H	Adds wiring external to over braided wire bundle	NA01-1A-505		/ /	* / /	
I	Fabricates shielded harness terminated with EMI back shells	NA01-1A-505		/ /	/ /	
J	Installs expando sleeve for environmental type connector with molded plastic cable clamps	NA01-1A-505		/ /	/ /	
K	Installs protective boot for environmental type connector with metal cable clamps	NA01-1A-505		/ /	/ /	
L	Installs protective boot for environmental type connector with molded plastic cable clamps	NA01-1A-505		/ /	/ /	
M	Installs MS25036 & M7928 pre-insulated terminals	NA01-1A-505		/ /	/ /	
N	Repairs N-type coax connectors	NA01-1A-505		/ /	* / /	
O	Repairs BNC-type coax connectors	NA01-1A-505		/ /	* / /	
P	Repairs TNC-type coax connectors	NA01-1A-505		/ /	* / /	
Q	Repairs SC-type coax connectors	NA01-1A-505		/ /	* / /	
R	Repairs SMA-type coax connectors	NA01-1A-505		/ /	/ /	

DA B.6 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
S	Repairs MIL-C-81511 series III connectors	NA01-1A-505		/ /	* / /		
T	Repairs solder type connectors	NA01-1A-505		/ /	* / /		
U	Repairs MIL-C-26482 series I connectors	NA01-1A-505		/ /	/ /		
V	Repairs MIL-C-38999 series I, II, & III connectors	NA01-1A-505		/ /	/ /		
W	Performs soldering (normal)	NA01-1A-505		/ /	* / /		
X	R&R radio filters	NA01-1A-505		/ /	* / /		
Y	R&R circuit breakers	NA01-1A-505		/ /	* / /		
Z	R&R relays	NA01-1A-505		/ /	* / /		

B.7 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the ICS system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	ICS system	A1-H53XX-POM-2XX		*	/ /	* / /	
B	Functional check						
B-1	ICS system	A1-H53XX-TTM-2XX		*	/ /	* / /	
C	Fault isolation						
C-1	ICS system	A1-H53XX-TTM-2XX	64184	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R ICS interphone control	A1-H53XX-600-000	64184	*	/ /	/ /	
D-2	R&R radio interphone control	A1-H53XX-600-000	64183	*	/ /	/ /	
D-3	R&R external ICS control	A1-H53XX-600-000	64185	/	/	/ /	
D-4	R&R J1013 interconnecting box	A1-H53XX-600-000	6481F	/	/	* / /	
D-5	Adjust J1013 interconnecting box	A1-H53XX-600-000	6481F	*	/ /	* / /	
D-6	R&R resistor unit	A1-H53XX-600-000	64R4T	/	/	/ /	
D-7	R&R ICS cable reel	A1-H53XX-600-000	1261820	/	/	/ /	
D-8	R&R radio select control	A1-H53XX-600-000	64R4A	*	/ /	/ /	
D-9	R&R radio select control	A1-H53XX-600-000	64R4A	/	/	/ /	

B.8 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the UHF system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	UHF system	A1-H53XX-POM-200		/ /	/ /		
B	Functional check						
B-1	UHF system	A1-H53XX-TTM-200		/ /	/ /		
C	Fault isolation						
C-1	UHF system	A1-H53XX-TTM-200	632Z100	/	/	/ /	
D	Organizational maintenance						
D-1	R&R receiver/transmitter/control	A1-H53BE-600-000	632Z100	/	/	/ /	

DA B.8 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-2	R&R UHF control	A1-H53AD-600-000	63155		/ /	/ /	
D-3	R&R UHF receiver/transmitter	A1-H53AD-600-000	6315Q00		/ /	/ /	
D-4	Adjust preset channels	A1-H53XX-600-000	632Z100		/ /	/ /	
D-5	R&R coax relay	A1-H53XX-600-000	63Y10		/ /	/ /	
D-6	R&R antenna (fwd/aft) 63Y1F	A1-H53XX-600-000	63Y10		/ /	/ /	
D-7	Check forward antenna ground plane	A1-H53AD-600-000	63Y1F		/ /	/ /	

B.9 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **VHF/FM systems**, using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	ARC-182 system	A1-H53XX-POM-2XX			/ /	*	/ /
A-2	ARC-210 system	A1-H53XX-600-XXX		*	/ /	/	/
B	Functional check						
B-1	ARC-182 system	A1-H53XX-POM-2XX		*	/ /	*	/ /
B-2	ARC-210 system	A1-H53XX-TTM-XXX		*	/ /	/	/
C	Fault isolation						
C-1	ARC-182 system	A1-H53XX-POM-2XX	621K0		/ /	*	/ /
C-2	ARC-210 system	A1-H53XX-TTM-XXX			/ /	/	/
D	Organizational maintenance						
D-1	R&R receiver/transmitter/ control, (ARC-182)	A1-H53XX-600-000	621K0		/ /	*	/ /
D-1.1	R&R receiver/transmitter/ control, (ARC-210)	A1-H53XX-600-000		*	/ /	/	/
D-2	R&R antenna coupler	A1-H53XX-600-000	62176		/ /	*	/ /
D-3	R&R low pass filter	A1-H53XX-600-000	62X10		/ /	/	/
D-4	R&R FM antenna actuator	A1-H53XX-600-000	62R1P		/ /	*	/ /
D-5	R&R actuator filter assembly	A1-H53XX-600-000	62X10		/ /	/	/
D-6	R&R FM antenna relay	A1-H53XX-600-000	62X10		/ /	*	/ /

B.10 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **HF system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	HF system	A1-H53XX-POM-2XX		*	/ /	*	/ /
B	Functional check						
B-1	HF system	A1-H53XX-600-000 A1-H53XX-TTM-2XX			/ /	*	/ /
C	Fault isolation						
C-1	HF system	A1-H53XX-TTM-2XX	61181		/ /	*	/ /
D	Organizational maintenance						
D-1	R&R RT	A1-H53XX-600-000	61181		/ /	*	/ /
D-2	R&R control box	A1-H53XX-600-000	61182		/ /	/	/

DA B.10 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-3	R&R coupler	A1-H53XX-600-000	61X12		/ /	*	/ /
D-4	Replace antenna	A1-H53XX-600-000	61X1L		/ /	*	/ /

B.11 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the IFF system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	IFF system	A1-H53XX-POM-2XX			*	/ /	*
A-2	Mode 4	NAVAIR 16-300-2			/ /	*	/ /
B	Functional check						
B-1	IFF system	A1-H53XX-700-000 A1-H53XX-TTM-2XX			*	/ /	*
B-2	Mode 4	NAVAIR 16-300-1			/ /	*	/ /
B-3	Operates KIR-1/C	NAVAIR 16-300-1			/ /		/ /
C	Fault isolation						
C-1	IFF system	A1-H53XX-TTM-2XX	65341		*	/ /	*
D	Organizational maintenance						
D-1	R&R transponder	A1-H53XX-600-000	65341		/ /	*	/ /
D-2	R&R control box	A1-H53XX-600-000	65Y1P		/ /	*	/ /
D-3	R&R mode 4 computer (Kit-1/C)	A1-H53XX-600-000	65Y1W		/ /		/ /
D-4	R&R I/P relay	A1-H53XX-600-000	65Y10		/ /		/ /
D-5	R&R self-test set	A1-H53XX-600-000	65Y1Q00		/ /	*	/ /
D-6	R&R antenna	A1-H53XX-600-000	65Y1Q00		/ /		/ /
D-7	R&R altitude encoder	A1-H53XX-600-000	51X17		/ /	*	/ /
D-8	Adjust self test set	A1-H53XX-700-000	65Y1Q00		/ /	*	/ /

B.12 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Attitude heading reference system (AHRS) using appropriate maintenance procedures and support/test equipment. (CH-53E)

A	Theory of operation						
A-1	Attitude heading reference system (AHRS)	A1-H53XX-POM-2XX			*	/ /	*
B	Functional check						
B-1	AHRS system	A1-H53XX-TTM-2XX			*	/ /	*
C	Fault isolation						
C-1	AHRS system	A1-H53XX-TTM-2XX	564A1		*	/ /	*
D	Organizational maintenance						
D-1	R&R displacement gyro	A1-H53XX-700-000	564A1		/ /		/ /
D-2	R&R electronic control amplifier	A1-H53XX-700-000	564A2		/ /	*	/ /
D-3	R&R compass transmitter	A1-H53XX-700-000	56X11		/ /	*	/ /
D-4	R&R compass controller	A1-H53XX-700-000	56X1E		/ /	*	/ /
D-5	R&R compass fail relay	A1-H53XX-700-000	564A0		/ /	*	/ /
D-6	Performs compass swing	NA17-15CAA-45			/ /	*	/ /
D-7	R&R standby compass	A1-H53XX-500-000	51R1G		/ /	*	/ /

DA B.12 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-8	Adjust standby compass	A1-H53XX-500-000	51R1G		/ /	* / /	

B.13 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **MA-1 system** using appropriate maintenance procedures and support/test equipment. (CH-53D)

A	Theory of operation						
A-1	MA-1 system	A1-H53XX-POM-2XX			/ /	* / /	
B	Functional check						
B-1	MA-1 system	A1-H53XX-700-000			/ /	* / /	
C	Fault isolation						
C-1	MA-1 system	A1-H53XX-TTM-2XX	562B0		/ /	* / /	
D	Organizational maintenance						
D-1	Performs compass swing	A1-H53XX-700-000	562B0		/ /	* / /	
D-2	R&R compass controller	A1-H53XX-700-000	562B3		/ /	/ /	
D-3	R&R compass gyro	A1-H53XX-700-000	562B1		/ /	* / /	
D-4	R&R flux valve	A1-H53XX-700-000	562B1		/ /	* / /	

B.14 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **TACAN system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	TACAN system	A1-H53XX-POM-2XX			* / /	* / /	
B	Functional check						
B-1	TACAN system	A1-H53XX-700-000 A1-H53XX-TTM-2XX			* / /	* / /	
C	Functional check						
C-1	TACAN system	A1-H53XX-TTM-2XX	71Y92		* / /	* / /	
D	Organizational maintenance						
D-1	R&R receiver/transmitter	A1-H53XX-700-000	71Y92		/ /	* / /	
D-2	R&R multiplexer	A1-H53XX-700-000	71Y93		/ /	* / /	
D-3	Adjust multiplexer	A1-H53XX-TTM-2XX	71Y93		/ /	* / /	
D-4	R&R control box	A1-H53XX-700-000	71Y9B		/ /	* / /	
D-5	R&R antenna (top/bottom)	A1-H53XX-700-000	71Y18		/ /	/ /	
D-6	Adjust course width	A1-H53XX-700-000	63Y1E		/ /	* / /	
D-7	R&R course indicator	A1-H53XX-700-000	71X1M		/ /	* / /	

B.15 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **VOR/ILS system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	VOR/ILS system	A1-H53XX-POM-2XX			* / /	* / /	
B	Functional check						

DA B.15 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV	
B-1	VOR/ILS system	A1-H53XX-TTM-2XX			*	/ /	*	/ /
C	Fault isolation							
C-1	VOR/ILS system	A1-H53XX-TTM-2XX	711A1		*	/ /	*	/ /
D	Organizational maintenance							
D-1	R&R receiver	A1-H53XX-700-2XX	711A1		*	/ /	/ /	
D-2	Adjust receiver	A1-H53XX-TTM-2XX	711A1		*	/ /	*	/ /
D-3	R&R control box	A1-H53XX-700-2XX	711A2		*	/ /	/ /	
D-4	R&R VOR/LOC antennas	A1-H53XX-700-2XX	711A0		/ /	/ /	/ /	
D-5	R&R glide slope antenna	A1-H53XX-700-2XX	711A0		/ /	/ /	/ /	

B.16 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the VHF/UHF Direction Finder System (DF-301E) using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	VHF/UHF DF system	A1-H53XX-POM-2XX A1-H53XX-700-100	621MO		*	/ /	/ /
B	Functional check						
B-1	VHF/UHF DF system	A1-H53XX-700-200 A1-H53XX-TTM-2XX	621MO		/ /	/ /	/ /
C	Fault isolation						
C-1	VHF/UHF DF system, (DF-301F)	A1-H53XX-700-200 A1-H53XX-TTM-2XX	621MO		/ /	/ /	/ /
D	Organizational maintenance						
D-1	R&R communications relay assembly	A1-H53XX-700-000	62R15		/ /	/ /	/ /
D-2	R&R VHF\UHF DF antenna	A1-H53XX-700-000	71Y9100		/ /	/ /	/ /
D-3	R&R DF Coaxial relay	A1-H53XX-700-000	71133		/ /	/ /	/ /

B.17 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the LF/ADF system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation							
A-1	LF/ADF system	A1-H53XX-POM-2XX			*	/ /	*	/ /
B	Functional check							
B-1	F/C LF/ADF system	A1-H53XX-700-000 A1-H53XX-TTM-2XX			*	/ /	*	/ /
C	Fault isolation							
C-1	LF/ADF system	A1-H53XX-TTM-2XX	71450		/ /	*	/ /	
D	Organizational maintenance							
D-1	R&R receiver	A1-H53XX-700-000	713J1		/ /	*	/ /	
D-2	R&R control box	A1-H53XX-700-000	713J2		/ /	*	/ /	
D-3	R&R impedance matching amplifier	A1-H53XX-700-000	713J3		/ /	/ /	/ /	
D-4	R&R sense antenna	A1-H53XX-700-000	713J0		/ /	/ /	/ /	
D-5	R&R loop antenna	A1-H53XX-700-000	713J0		/ /	/ /	/ /	

DA B.17 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-6	R&R ADF dynamotor	A1-H53XX-700-000	71454		/ /	*	/ /
D-7	R&R goniometer	A1-H53XX-700-000	71R61		/ /	*	/ /
D-8	Adjust goniometer	A1-H53XX-700-000	71R61		/ /	*	/ /
D-9	R&R tuning shaft	A1-H53XX-700-000	71450		/ /	*	/ /

B.18 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Infrared Detecting Set (AN/AAQ-16B) using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/AAQ-16B HNVS	A1-H53CE-700-100			*	/ /	*
B	Functional check						
B-1	AN/AAQ-16B HNVS	A1-H53CE-700-200			*	/ /	*
C	Fault isolation						
C-1	AN/AAQ-16B HNVS	A1-H53CE-700-200			/ /		/ /
D	Organizational maintenance						
D-1	R&R TFV	A1-H53XX-700-000			/ /		/ /
D-2	R&R TFV Support	A1-H53XX-700-000			/ /		/ /
D-3	R&R PDV	A1-H53XX-700-000			/ /		/ /
D-4	R&R SDC	A1-H53XX-700-000			/ /		/ /
D-5	R&R DEV	A1-H53XX-700-000			/ /		/ /
D-6	R&R MFCU	A1-H53XX-700-000			/ /		/ /
D-7	R&R FLIR/RNS Control Panel	A1-H53XX-700-000			/ /		/ /
D-8	R&R Signal Conditional Module	A1-H53XX-700-000			/ /		/ /
D-9	R&R True Airspeed Transducer	A1-H53XX-700-000			/ /		/ /

B.19 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Heads Up Display (HUD) using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/AVS-7 HUD	A1-H53CE-700-100			/ /		/ /
B	Functional check						
B-1	AN/AVS-7 HUD	A1-H53CE-700-200			/ /		/ /
C	Fault isolation						
C-1	AN/AVS-7 HUD	A1-H53CE-700-200			/ /		/ /
D	Organizational maintenance						
D-1	R&R SDC	A1-H53CE-700-000			/ /		/ /
D-2	R&R Converter Control Unit	A1-H53CE-700-000			/ /		/ /
D-3	R&R Display Unit	A1-H53CE-700-000			/ /		/ /
D-4	R&R ADT	A1-H53CE-700-000			/ /		/ /
D-5	R&R HUD Transformer	A1-H53CE-700-000			/ /		/ /

B.20 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Global Positioning System (GPS) using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	AN/ARN-151 (V) 2	A1-H53XX-700-XXX		*	/ /	*	/ /
B	Functional check						
B-1	AN/ARN-151 (V) 2	A1-H53XX-TTM-XXX		*	/ /	*	/ /
C	Fault isolation						
C-1	AN/ARN-151 (V) 2	A1-H53XX-TTM-XXX		/ /	*	/ /	
D	Organizational maintenance						
D-1	R&R CONV	A1-H53CE-XXX-000		/ /		/ /	
D-2	R&R GPS Antenna	A1-H53CE-XXX-000		/ /		/ /	
D-3	R&R GPS Antenna Amplifier	A1-H53CE-XXX-000		/ /		/ /	
D-4	R&R GPS Receiver	A1-H53CE-XXX-000		/ /		/ /	
D-5	R&R GPS MDL	A1-H53CE-XXX-000		/ /		/ /	
D-6	R&R SDC	A1-H53CE-XXX-000		/ /		/ /	

B.21 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the radar altimeter system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Radar altimeter system	A1-H53XX-POM-2XX		*	/ /	*	/ /
B	Functional check						
B-1	Radar altimeter system	A1-H53XX-700-000 A1-H53XX-TTM-2XX		*	/ /	*	/ /
C	Fault isolation						
C-1	Radar altimeter system	A1-H53XX-TTM-2XX	72441	*	/ /	*	/ /
D	Organizational maintenance						
D-1	R&R receiver/transmitter	A1-H53XX-700-000	72441	/ /		*	/ /
D-2	Adjust receiver/transmitter	A1-H53XX-700-000	72441	*	/ /	*	/ /
D-3	R&R height indicator	A1-H53XX-700-2XX	72442	/ /		*	/ /
D-4	R&R antennas (receive/ transmit)	A1-H53XX-700-2XX	72443	/ /		/ /	

B.22 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Ground Proximity Warning System (GPWS) using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Ground Proximity Warning System (GPWS) AN/AQY-23 (V)	A1-H53XX-POM-XXX		/ /		*	/ /
B	Functional check						
B-1	Ground Proximity Warning System (GPWS) AN/AQY-23 (V)	A1-H53XX-570-2XX		/ /		*	/ /
C	Fault isolation						
C-1	Ground Proximity Warning System (GPWS) AN/AQY-23 (V)	A1-H53XX-570-2XX		/ /		/ /	

DA B.22 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Organizational maintenance						
D-1	R&R GPWS Processor	A1-H53XX-570-2XX			/ /	/ /	
D-2	R&R Air Data Computer	A1-H53XX-570-2XX			/ /	/ /	
D-3	R&R GPWS Relay Panel	A1-H53XX-570-2XX			/ /	/ /	

B.23 Performs applicable organizational level maintenance actions common to associated communications/navigation system components using appropriate maintenance procedures and support/test equipment.

A	R&R audio transformer	A1-H53XX-600-000	64R40		/ /	/ /	
B	R&R 26VAC step down transformer	A1-H53XX-600-000	428R0		/ /	/ /	
C	R&R BDHI	A1-H53XX-600-000	71X1L		/ /	/ /	
D	R&R course indicator	A1-H53XX-600-000	71X1M		/ /	/ /	
E	R&R navigation relay unit	A1-H53XX-600-000	71R62		/ /	/ /	
F	R&R 26VAC synchro switching unit	A1-H53XX-600-000	71R63		/ /	/ /	
G	R&R BDHI/course indicator selector panels	A1-H53XX-600-000	71R60		/ /	/ /	

B.24 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Auxiliary Power Plant (APP) electrical system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Auxiliary power plant electrical system	A1-H53XX-POM-1XX		*	/ /	*	
B	Functional check						
B-1	Auxiliary power plant electrical system	A1-H53XX-220-000 A1-H53XX-TTM-1XX		*	/ /	*	
C	Fault isolation						
C-1	Auxiliary power plant electrical system	A1-H53XX-TTM-1XX	24000		/ /	*	
D	Organizational maintenance						
D-1	R&R APP control panel	A1-H53XX-220-000	24A1M		/ /	*	
D-2	R&R APP tachometer indicator	A1-H53XX-220-000	24A1N10		/ /	/ /	
D-3	R&R APP exhaust temp indicator	A1-H53XX-220-000	24A1N00		/ /	/ /	
D-4	R&R APP speed switch	A1-H53XX-220-000	24A1N00		/ /	*	
D-5	R&R APP tach generator	A1-H53XX-220-000	24A1Z		/ /	/ /	
D-6	R&R APP ignition exciter box	A1-H53XX-220-000	24A1Z		/ /	/ /	
D-7	R&R APP generator	A1-H53XX-220-000	24A15		/ /	/ /	
D-8	R&R APP voltage regulator	A1-H53XX-220-000	24A1J00		/ /	/ /	

B.25 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the electrical systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
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DA B.25 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A-1	Alternating current electrical system, (AC)	A1-H53XX-POM-2XX		*	/ /	*	/ /
A-2	Direct current electrical system, (DC)	A1-H53XX-POM-2XX		*	/ /	*	/ /
B	Functional check						
B-1	AC electrical system	A1-H53XX-420-000 A1-H53XX-TTM-2XX		*	/ /	*	/ /
B-2	DC electrical system	A1-H53XX-420-000 A1-H53XX-TTM-2XX		*	/ /	*	/ /
C	Fault isolation						
C-1	AC electrical system	A1-H53XX-TTM-2XX	42110		/ /	*	/ /
C-2	DC electrical system	A1-H53XX-TTM-2XX	42110		/ /	*	/ /
D	Organizational maintenance						
D-1	AC electrical system	A1-H53XX-420-000			/ /	/	/
D-1.1	R&R AC generator	A1-H53XX-420-000	42111		/ /	*	/ /
D-1.2	R&R AC power system supervisory panel	A1-H53XX-420-000	4211C		/ /	/	/
D-1.3	R&R AC power system relays	A1-H53XX-420-000	42310		/ /	*	/ /
D-1.4	R&R Auto transformer	A1-H53XX-420-000	42310		/ /	/	/
D-2	DC electrical system				/ /	/	/
D-2.1	R&R DC power system transformer rectifier	A1-H53XX-420-000	4211Q		/ /	/	/
D-2.2	R&R DC power system relays	A1-H53XX-420-000	42310		/ /	/	/

B.26 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the hydraulic systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	1st stage hydraulic system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-2	2nd stage hydraulic system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-3	Utility hydraulic system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-4	Hydraulic quantity system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-5	Main rotor servo failure warning system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-6	Tail rotor servo failure warning system	A1-H53XX-POM-1XX		*	/ /	*	/ /
B	Functional check						
B-1	1st stage hydraulic system	A1-H53XX-140-000 A1-H53XX-TTM-1XX		*	/ /	*	/ /
B-2	2nd stage hydraulic system	A1-H53XX-140-000 A1-H53XX-TTM-1XX		*	/ /	*	/ /

DA B.26 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-3	Utility hydraulic system	A1-H53XX-450-000 A1-H53XX-TTM-1XX			*	/	/
B-4	Hydraulic quantity system	A1-H53XX-TTM-1XX			*	/	/
B-5	Main rotor servo failure warning system	A1-H53XX-140-000 A1-H53XX-TTM-1XX			*	/	/
B-6	Tail rotor servo failure warning system	A1-H53XX-140-000 A1-H53XX-TTM-1XX			*	/	/
C	Fault isolation						
C-1	1st stage hydraulic system	A1-H53XX-TTM-1XX	45000		/	/	*
C-2	2nd stage hydraulic system	A1-H53XX-TTM-1XX	45000		/	/	*
C-3	Utility hydraulic system	A1-H53XX-TTM-1XX	45000		/	/	/
C-4	Hydraulic quantity system	A1-H53XX-TTM-1XX	45000		/	/	*
C-5	Main rotor servo failure warning system	A1-H53XX-TTM-1XX	45000		/	/	*
C-6	Tail rotor servo failure warning system	A1-H53XX-TTM-1XX	15000		/	/	*
D	Organizational maintenance						
D-1	Hydraulics systems				/	/	/
D-1.1	R&R hydraulic pressure indicator	A1-H53XX-450-000	4511F		/	/	/
D-1.2	R&R hydraulic pressure transmitter	A1-H53XX-450-000	4511A		/	/	/
D-1.3	R&R primary servo control pressure switch	A1-H53XX-450-000	14A1A		/	/	/
D-1.4	R&R primary servo bypass warning switch	A1-H53XX-450-000	428C2		/	/	/
D-1.5	R&R utility hydraulic oil hot plug stat	A1-H53XX-450-000	4511E		/	/	/
D-1.6	R&R hydraulic heat exchange blower motor	A1-H53XX-450-000	4511B10		/	/	/
D-2	Hydraulic quantity systems						
D-2.1	R&R hydraulic quantity indicator	A1-H53XX-450-000	4511G		/	/	/
D-2.2	R&R hydraulic quantity sensor	A1-H53XX-450-000	4511E		/	/	/

B.27 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the rotor brake system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Rotor brake system	A1-H53XX-POM-1XX			*	/	/
B	Functional check						
B-1	Rotor brake system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			*	/	/
C	Fault isolation						
C-1	Rotor brake system	A1-H53XX-TTM-1XX	15000		*	/	/
D	Organizational maintenance						
D-1	R&R rotor brake pressure switches (2)	A1-H53XX-260-000	15000		/	/	/

B.28 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the ramp & door system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						

DA B.28 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A-1	Ramp & door system	A1-H53XX-POM-1XX			/ /	* / /	
B	Organizational maintenance						
B-1	Ramp & door system	A1-H53XX-110-000 A1-H53XX-TTM-1XX			/ /	* / /	
C	Organizational maintenance						
C-1	Ramp & door system	A1-H53XX-TTM-1XX	11XX0		/ /	* / /	
D	Organizational maintenance						
D-1	Adjust ramp door micro-switch	A1-H53XX-110-000	11520		/ /	/ /	
D-2	Adjust ramp level micro-switch	A1-H53XX-110-000	11520		/ /	/ /	

B.29 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the engine start & ignition system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Engine start & ignition system	A1-H53XX-POM-1XX			* / /	* / /	
B	Functional check						
B-1	Engine start & ignition system	A1-H53XX-220-000 A1-H53XX-TTM-1XX			* / /	* / /	
C	Fault isolation						
C-1	Engine start & ignition system	A1-H53XX-TTM-1XX	22690		/ /	* / /	
D	Organizational maintenance						
D-1	R&R engine ignition unit	A1-H53XX-220-000	22691		/ /	/ /	
D-2	R&R engine start cable tensioner switch	A1-H53XX-220-000	2953600		/ /	* / /	
D-3	Adjust engine quadrant micro-switch	A1-H53XX-220-000	2953A10		/ /	* / /	

B.30 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the indicating systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	T-5 indicating system	A1-H53XX-POM-1XX			* / /	* / /	
A-2	Torque indicating system	A1-H53XX-POM-1XX			* / /	* / /	
B	Functional check						
B-1	T-5 indicating system	A1-H53XX-220-000 A1-H53XX-TTM-1XX			/ /	* / /	
B-2	Torque indicating system	A1-H53XX-220-000 A1-H53XX-TTM-1XX			/ /	* / /	
C	Fault isolation						
C-1	T-5 indicating system	A1-H53XX-TTM-1XX	29530		/ /	* / /	
C-2	Torque indicating system	A1-H53XX-TTM-1XX	22680		/ /	* / /	
D	Organizational maintenance						
D-1	T-5 indicating system				/ /	/ /	
D-1.1	R&R T-5 indicating system	A1-H53XX-220-000	2953C20		/ /	/ /	
D-1.2	R&R engine T-5 system thermocouple segments (3)	A1-H53XX-220-000	22686		/ /	* / /	

DA B.30 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-2	Engine torque monitoring system			/ /	/ /	/ /	
D-2.1	R&R engine torque monitoring system indicator	A1-H53XX-220-000	2953C70		/ /	/ /	
D-2.2	R&R engine torque monitoring system sensor	A1-H53XX-220-000	22684		/ /	* / /	
D-2.3	R&R engine torque power unit	A1-H53XX-220-000	29X1A		/ /	* / /	
D-2.4	Perform torque calibration	A1-H53XX-TTM-1XX A1-H53XX-220-000	2953C80		/ /	* / /	

B.31 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the EAPS electrical system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	EAPS electrical system	A1-H53XX-POM-1XX		*	/ /	* / /	
B	Functional check						
B-1	EAPS electrical system	A1-H53XX-220-000 A1-H53XX-TTM-1XX			/ /	* / /	
C	Fault isolation						
C-1	EAPS electrical system	A1-H53XX-TTM-1XX	2953D		/ /	* / /	
D	Organizational maintenance						
D-1	R&R EAPS scavenge blower motor	A1-H53XX-220-000	2953D50		/ /	/ /	
D-2	R&R EAPS barrel door actuator	A1-H53XX-220-000	2953D31		/ /	* / /	
D-3	R&R EAPS pressure switches	A1-H53XX-220-000	2953000		/ /	/ /	

B.32 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the fire warning system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Fire warning system	A1-H53XX-POM-1XX		*	/ /	* / /	
B	Functional check						
B-1	Fire warning system	A1-H53XX-220-000 A1-H53XX-TTM-1XX		*	/ /	* / /	
C	Fault isolation						
C-1	Fire warning system	A1-H53XX-TTM-1XX	49310		/ /	* / /	
D	Organizational maintenance						
D-1	R&R engine/APP fire detector	A1-H53XX-220-000	49310		/ /	/ /	
D-2	R&R engine/APP fire warning system test panel	A1-H53XX-220-000	49311		/ /	/ /	
D-3	R&R engine/APP fire detect control amplifier	A1-H53XX-220-000	49314		/ /	/ /	

B.33 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the fire extinguisher system using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Fire extinguisher system	A1-H53XX-POM-1XX		*	/ /	*	/ /
B	Functional check						
B-1	Fire extinguisher system	A1-H53XX-220-000 A1-H53XX-TTM-1XX			/ /	*	/ /
C	Fault isolation						
C-1	Fire extinguisher system (Engine #1. 2. or 3)	A1-H53XX-TTM-1XX	49410		/ /	*	/ /

B.34 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the fuel systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Refuel system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-2	Fuel transfer system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-3	Fuel dump system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-4	Fuel purge system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-5	Range extension system	A1-H53XX-POM-1XX					
A-6	Fuel filter by-pass system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-7	Main fuel quantity indicating system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-8	Auxiliary fuel quantity indicating system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-9	Auxiliary fuel jettison system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-10	Low fuel level warning system	A1-H53XX-POM-1XX		*	/ /	*	/ /
B	Functional check						
B-1	Refuel system	A1-H53XX-460-000 A1-H53XX-TTM-1XX			/ /	*	/ /
B-2	Fuel transfer system	A1-H53XX-460-000 A1-H53XX-TTM-1XX		*	/ /	*	/ /
B-3	Fuel dump system	A1-H53XX-460-000 A1-H53XX-TTM-1XX		*	/ /	*	/ /
B-4	Fuel purge system	A1-H53XX-TTM-1XX		*	/ /	*	/ /
B-5	Range extension system	A1-H53XX-460-000 A1-H53XX-TTM-1XX			/ /	*	/ /
B-6	Fuel filter by-pass system	A1-H53XX-460-000 A1-H53XX-TTM-1XX			/ /	*	/ /
B-7	Main fuel quantity indicating system	A1-H53XX-460-000 A1-H53XX-TTM-1XX		*	/ /	*	/ /
B-8	Auxiliary fuel quantity indicating system	A1-H53XX-460-000 A1-H53XX-TTM-1XX		*	/ /	*	/ /
B-9	Auxiliary fuel jettison system	A1-H53XX-460-000 A1-H53XX-TTM-1XX			/ /	*	/ /
B-10	Low fuel level warning system	A1-H53XX-460-000 A1-H53XX-TTM-1XX		*	/ /	*	/ /
C	Fault isolation						

DA B.34 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C-1	Refuel system	A1-H53XX-TTM-1XX	46310		/ / /	* / /	
C-2	Fuel transfer system	A1-H53XX-TTM-1XX	46310		* / /	* / /	
C-3	Fuel dump system	A1-H53XX-TTM-1XX	46720		* / /	* / /	
C-4	Fuel purge system	A1-H53XX-TTM-1XX	46000		* / /	/ /	
C-5	Range extension system	A1-H53XX-TTM-1XX	46610		/ /	* / /	
C-6	Fuel filter by-pass system	A1-H53XX-TTM-1XX	46000		/ /	* / /	
C-7	Main fuel quantity indicating system	A1-H53XX-TTM-1XX	46000		* / /	* / /	
C-8	Auxiliary fuel quantity indicating system	A1-H53XX-TTM-1XX	46000		* / /	* / /	
C-9	Auxiliary fuel jettison system	A1-H53XX-TTM-1XX	46000		* / /	* / /	
C-10	Low fuel level warning system	A1-H53XX-TTM-1XX	46000		* / /	* / /	
D	Organizational maintenance						
D-1	Aerial refueling electrical system				/ /	/ /	
D-1.1	R&R aerial refueling electrical system probe harness	A1-H53XX-460-000	4681200		/ /	* / /	
D-1.2	R&R aerial refueling electrical system probe lock actuator	A1-H53XX-460-000	4681800		/ /	* / /	
D-2	Fuel filter by-pass system				/ /	/ /	
D-2.1	R&R engine fuel boost pump pressure switch	A1-H53XX-220-000	428Q2		/ /	* / /	
D-3	Main fuel quantity indicating system				/ /	/ /	
D-3.1	R&R main fuel quantity indicator	A1-H53XX-460-000	46216		/ /	/ /	
D-3.2	R&R main fuel quantity tank transmitter probes	A1-H53XX-460-000	46210		/ /	* / /	
D-3.3	R&R main fuel quantity low level control unit	A1-H53XX-4XX-000	46212		/ /	/ /	
D-3.4	R&R fuel quantity totalizer indicator	A1-H53XX-460-000	46214		/ /	/ /	
D-3.5	R&R fuel low level sensor	A1-H53XX-460-000	46221		/ /	* / /	
D-4	Auxiliary fuel quantity indicating system				/ /	/ /	
D-4.1	R&R auxiliary fuel quantity indicator	A1-H53XX-460-000	4671J		/ /	/ /	
D-4.2	R&R auxiliary fuel quantity tank transmitter probe	A1-H53XX-460-000	46710		/ /	* / /	
D-4.3	R&R auxiliary fuel quantity signal conditioner	A1-H53XX-460-000	46710		/ /	/ /	
D-4.4	R&R quick disconnect (upper)	A1-H53XX-460-000	46710		/ /	/ /	
D-4.5	R&R quick disconnect (lower)	A1-H53XX-460-000	46710		/ /	/ /	
D-4.6	Perform fuel calibration	A1-H53XX-460-000 A1-H53XX-TTM-1XX	46216		* / /	* / /	

B.35 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the chip detector system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Chip detector system	A1-H53XX-POM-1XX			* / /	* / /	
B	Functional check						
B-1	Chip detector system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/ /	* / /	

DA B.35 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Fault isolation						
C-1	Chip detector system	A1-H53XX-TTM-1XX	49110		/ /	* / /	

B.36 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the rotor positioning systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Rotor positioning system	A1-H53XX-POM-1XX			* / /	* / /	
A-2	Pitch lock system	A1-H53XX-POM-1XX			* / /	* / /	
A-3	Blade fold system	A1-H53XX-POM-1XX			* / /	* / /	
A-4	Pylon fold system	A1-H53XX-POM-1XX			* / /	* / /	
B	Functional check						
B-1	Rotor positioning system	A1-H53XX-TTM-1XX			* / /	* / /	
B-2	Pitch lock system	A1-H53XX-TTM-1XX			* / /	* / /	
B-3	Blade fold system	A1-H53XX-TTM-1XX			* / /	* / /	
B-4	Pylon fold system	A1-H53XX-TTM-1XX			* / /	* / /	
C	Fault isolation						
C-1	Rotor positioning system	A1-H53XX-TTM-1XX	15210		/ /	* / /	
C-2	Pitch lock system	A1-H53XX-TTM-1XX	15210		/ /	* / /	
C-3	Blade fold system	A1-H53XX-TTM-1XX	15210		/ /	* / /	
C-4	Pylon fold system	A1-H53XX-TTM-1XX	15210		/ /	* / /	
D	Organizational maintenance						
D-1	R&R blade fold relay panel	A1-H53XX-150-000	15212		/ /	/ /	
D-2	R&R blade fold system slip ring	A1-H53XX-150-000	15214		/ /	* / /	
D-3	R&R blade fold harness	A1-H53XX-150-000	1521510		/ /	* / /	
D-4	R&R blade fold junction box	A1-H53XX-150-000	15213		/ /	* / /	
D-5	R&R blade fold system tail rotor actuator	A1-H53XX-150-000	1541310		/ /	/ /	

B.37 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the rotor system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Blade fold system	A1-H53XX-POM-1XX			/ /	* / /	
B	Functional check						
B-1	Blade fold system	A1-H53XX-150-000			/ /	* / /	
C	Fault isolation						
C-1	Blade fold system	A1-H53XX-TTM-1XX	15210		/ /	* / /	
D	Organizational maintenance						
D-1	Blade fold system				/ /	/ /	
D-1.1	R&R blade fold harnesses	A1-H53XX-150-000	1521510		/ /	* / /	
D-1.2	Adj blade fold pitch lock switch	A1-H53XX-150-000	1521510		/ /	* / /	
D-1.3	Adjusts blade spread switches	A1-H53XX-150-000	1521510		/ /	* / /	
D-1.4	R&R logic unit	A1-H53XX-150-000	15210		/ /	/ /	

DA B.37 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-1.5	R&R blade fold slip ring	A1-H53XX-150-000	15214		/ /	*	/ /
D-1.6	R&R blade fold relay panel	A1-H53XX-150-000	15212		/ /	*	/ /
D-1.7	R&R rotary rudder actuator	A1-H53XX-150-000	1541300		/ /	*	/ /
D-1.8	R&R blade fold junction box	A1-H53XX-150-000	15213		/ /	*	/ /
D-1.9	Adjust slip ring	A1-H53XX-150-000	15214		/ /	*	/ /

B.38 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the landing gear system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Landing gear system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-2	Landing gear attitude warning system	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-3	Tail skid system	A1-H53XX-POM-1XX		*	/ /	*	/ /
B	Functional check						
B-1	Landing gear system	A1-H53XX-TTM-1XX		*	/ /	*	/ /
B-2	Landing gear attitude warning system	A1-H53XX-500-000 A1-H53XX-TTM-1XX			/ /	*	/ /
B-3	Tail skid system	A1-H53XX-130-000 A1-H53XX-TTM-1XX			/ /	*	/ /
C	Fault isolation						
C-1	Landing gear system	A1-H53XX-TTM-1XX	13000		/ /	*	/ /
C-2	Landing gear attitude warning system	A1-H53XX-TTM-1XX			/ /	*	/ /
C-3	Tail skid system	A1-H53XX-TTM-1XX	13810		/ /	*	/ /
D	Organizational maintenance						
D-1	R&R landing gear position indicator	A1-H53XX-130-000	13515		/ /	/ /	/ /
D-2	R&R landing gear harness	A1-H53XX-130-000	428G1		/ /	*	/ /
D-3	R&R landing gear control panel	A1-H53XX-130-000	13514		/ /	*	/ /
D-4	R&R landing gear control panel handle light	A1-H53XX-130-000	13513		/ /	/ /	/ /
D-5	R&R landing gear warning clutch switch	A1-H53XX-500-000	428G4		/ /	/ /	/ /
D-6	R&R landing gear warning amplifier	A1-H53XX-500-000	13711		/ /	/ /	/ /
D-7	R&R tail skid actuator	A1-H53XX-130-000	1381700		/ /	/ /	/ /
D-8	R&R parking brake limit switch	A1-H53XX-130-000	13315		/ /	/ /	/ /

B.39 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the cargo hook systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Single point cargo hook	A1-H53XX-POM-1XX		*	/ /	*	/ /
A-2	Dual point cargo hook system	A1-H53XX-POM-1XX WP 005 00		*	/ /	*	/ /
A-3	Cargo hook load indicating system	A1-H53XX-POM-1XX WP 006 00		*	/ /	*	/ /
B	Functional check						
B-1	Single point cargo hook	A1-H53XX-TTM-1XX		*	/ /	*	/ /

DA B.39 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-2	Dual point cargo hook system	A1-H53XX-TTM-1XX WP 005 00			* / /	* / /	
B-3	Cargo hook load indicating system	A1-H53XX-TTM-1XX WP 006 00			/ /	* / /	
C	Fault isolation						
C-1	Single point cargo hook	A1-H53XX-TTM-1XX	1271400		/ /	* / /	
C-2	Dual point cargo hook system	A1-H53XX-TTM-1XX WP 005 00	1271A00		/ /	* / /	
C-3	Cargo hook load indicating system	A1-H53XX-TTM-1XX WP 006 00	1271D00		/ /	* / /	
D	Organizational maintenance						
D-1	R&R cargo hook indicator	A1-H53XX-110-000 WP 051 00	1271011		/ /	/ /	
D-2	R&R cargo hook load sensors	A1-H53XX-110-000	12710		/ /	* / /	
D-3	R&R cargo module	A1-H53XX-110-000	12710		/ /	/ /	

B.40 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the cargo hook/winch using appropriate maintenance procedures and support/test equipment. (H-53D)

A	Theory of operation						
A-1	Cargo hook system	A1-H53XX-POM-1XX			/ /	* / /	
A-2	Cargo winch system	A1-H53XX-POM-1XX			/ /	/ /	
A-3	Pylon fold system	A1-H53XX-POM-1XX			/ /	* / /	
B	Functional check						
B-1	Cargo hook system	A1-H53XX-1XX-000			/ /	* / /	
B-2	Cargo winch system	A1-H53XX-1XX-000			/ /	/ /	
C	Fault isolation						
C-1	Cargo hook system	A1-H53XX-TTM-1XX	12710		/ /	* / /	
C-2	Cargo winch system	A1-H53XX-TTM-1XX	12610		/ /	/ /	
D	Organizational maintenance						
D-1	Cargo winch system				/ /	/ /	
D-1.1	R&R cargo winch limit switches	A1-H53XX-1XX-000	12610		/ /	/ /	
D-1.2	Adjusts cargo winch limit switches	A1-H53XX-1XX-000	12610		/ /	/ /	
D-1.3	R&R winch control reel	A1-H53XX-1XX-000	1261800		/ /	/ /	
D-1.4	R&R winch control panel	A1-H53XX-1XX-000	1261C		/ /	/ /	

B.41 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the utility hoist system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Utility hoist system	A1-H53XX-POM-1XX			* / /	* / /	
B	Functional check						
B-1	Utility hoist system	A1-H53XX-TTM-1XX			/ /	* / /	
C	Fault isolation						

DA B. 41 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C-1	Utility hoist system	A1-H53XX-TTM-1XX	12910		/ /	*	/ /
D	Organizational maintenance						
D-1	R&R utility hoist limit switch	A1-H53XX-1XX-1XX	12910		/ /	/ /	

B.42 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the ice detection system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Ice detection system	A1-H53XX-POM-1XX			/ /	*	/ /
B	Functional check						
B-1	Ice detection system	A1-H53XX-400-000 A1-H53XX-TTM-1XX			/ /	*	/ /
C	Fault isolation						
C-1	Ice detection system	A1-H53XX-TTM-1XX	41120		/ /	*	/ /
D	Organizational maintenance						
D-1	R&R Ice detection system probe	A1-H53XX-400-000	41120		/ /	*	/ /
D-2	R&R Ice detect controller	A1-H53XX-400-000	41121		/ /	/	/ /

B.43 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the IBIS indicating system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation							
A-1	IBIS indicating system	A1-H53XX-POM-1XX			*	/ /	*	/ /
B	Functional check							
B-1	IBIS indicating system	A1-H53XX-150-000 A1-H53XX-TTM-1XX			/ /	*	/ /	
C	Fault isolation							
C-1	IBIS indicating system	A1-H53XX-TTM-1XX	15310		/ /	*	/ /	
D	Organizational maintenance							
D-1	R&R IBIS detector	A1-H53XX-150-000	1531521		/ /	/	/ /	
D-2	R&R IBIS signal processor	A1-H53XX-150-000	15317		/ /	/	/ /	

B.44 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the flight control position indicating system using appropriate maintenance procedures and support/test equipment. (CH-53E)

A	Theory of operation							
A-1	Flight control position indicating system	A1-H53XX-POM-1XX			*	/ /	*	/ /
B	Functional check							
B-1	Flight control position indicating system	A1-H53XX-TTM-1XX			*	/ /	*	/ /
C	Fault isolation							
C-1	Flight control position indicating system	A1-H53XX-TTM-1XX	57000		/ /	*	/ /	
D	Organizational maintenance							

DA B.44 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-1	R&R stick position indicator	A1-H53XX-140-000	1411J		/ /	/ /	
D-2	R&R stick position sensor	A1-H53XX-140-000	1411H		/ /	/ /	

B.45 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the attitude indicating system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Attitude indicating system	A1-H53XX-POM-1XX			*	/ /	*
B	Functional check						
B-1	Attitude indicating system	A1-H53XX-TTM-1XX			/ /	*	/ /
C	Fault isolation						
C-1	Attitude indicating system	A1-H53XX-TTM-1XX	57000		/ /	*	/ /
D	Organizational maintenance						
D-1	R&R attitude indicator	A1-H53XX-500-000	51R1F		/ /		/ /
D-2	R&R vertical gyro	A1-H53XX-500-000	56823		/ /	*	/ /
D-3	R&R rate switching gyro	A1-H53XX-500-000	56829		/ /		/ /
D-4	R&R power failure detector	A1-H53XX-500-000	56821		/ /		/ /
D-5	R&R DC rate gyros, (2)	A1-H53XX-500-000	56824		/ /	*	/ /
D-6	R&R synchro transformer	A1-H53XX-500-000	56829		/ /		/ /

B.46 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the dual digital automatic flight control systems using appropriate maintenance procedures and support/test equipment. (CH-53E)

A	Theory of operation						
A-1	AHRS interface	A1-H53BE-POM-200			*	/ /	*
A-2	Vertical gyro interface	A1-H53BE-POM-200			*	/ /	*
A-3	Accelerometer	A1-H53BE-POM-200			*	/ /	*
A-4	Radar/altimeter interface	A1-H53BE-POM-200			*	/ /	*
A-5	Barometric/altimeter interface	A1-H53BE-POM-200			*	/ /	*
A-6	Air data transducer	A1-H53BE-POM-200			*	/ /	*
A-7	Rate gyro	A1-H53BE-POM-200			*	/ /	*
A-8	AFCS control panel	A1-H53BE-POM-200			*	/ /	*
A-9	LBA	A1-H53BE-POM-200			*	/ /	*
A-10	FAS	A1-H53BE-POM-200			*	/ /	*
A-11	AFCS servo system	A1-H53BE-POM-200			*	/ /	*
B	Functional check						
B-1	AHRS interface	A1-H53BE-TTM-200			*	/ /	*
B-2	Vertical gyro interface	A1-H53BE-TTM-200			*	/ /	*
B-3	Accelerometer	A1-H53BE-TTM-200			*	/ /	*
B-4	Radar/altimeter interface	A1-H53BE-TTM-200			*	/ /	*
B-5	Barometric/altimeter interface	A1-H53BE-TTM-200			*	/ /	*
B-6	Air data transducer	A1-H53BE-TTM-200			*	/ /	*
B-7	Rate gyro	A1-H53BE-TTM-200			*	/ /	*

DAB B.46 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-8	AFCS control panel	A1-H53BE-TTM-200		*	/ / /	*	/ / /
B-9	LBA	A1-H53BE-TTM-200		*	/ / /	*	/ / /
B-10	FAS	A1-H53BE-TTM-200		*	/ / /	*	/ / /
B-11	AFCS servo system	A1-H53BE-TTM-200		*	/ / /	*	/ / /
C	Fault isolation						
C-1	AHRS interface	A1-H53BE-TTM-200	564A0	*	/ / /	*	/ / /
C-2	Vertical gyro interface	A1-H53BE-TTM-200	56820	*	/ / /	*	/ / /
C-3	Accelerometer	A1-H53BE-TTM-200	57423	*	/ / /	*	/ / /
C-4	Radar/altimeter interface	A1-H53BE-TTM-200	72284		/ /	*	/ / /
C-5	Barometric/altimeter interface	A1-H53BE-TTM-200	51X17		/ /	*	/ / /
C-6	Air data transducer	A1-H53BE-TTM-200	5756P	*	/ / /	*	/ / /
C-7	Rate gyro	A1-H53BE-TTM-200	57561	*	/ / /	*	/ / /
C-8	AFCS control panel	A1-H53BE-TTM-200	5742200	*	/ / /	*	/ / /
C-9	LBA	A1-H53BE-TTM-200	1441G	*	/ / /	*	/ / /
C-10	FAS	A1-H53BE-TTM-200	14C10	*	/ / /	*	/ / /
C-11	AFCS servo system	A1-H53BE-TTM-200	14410	*	/ / /	*	/ / /
D	Organizational maintenance						
D-1	R&R AFCS computer	A1-H53BE-570-000	57421XX		/ /	*	/ / /
D-2	R&R AFCS air data transducer	A1-H53BE-570-000	5756L		/ /	/	/ / /
D-3	R&R AFCS LBA	A1-H53BE-140-000	1441G		/ /	*	/ / /
D-4	R&R AFCS stick/trim position transducer	A1-H53BE-570-000	428C4	*	/ / /	*	/ / /
D-5	R&R AFCS accelerometer	A1-H53BE-570-000	57423		/ /	/	/ / /
D-6	R&R AFCS rate gyro	A1-H53BE-570-000	57561		/ /	/	/ / /
D-7	R&R AFCS control panel	A1-H53BE-570-000	5742Z00		/ /	/	/ / /
D-8	R&R AFCS pressure switch	A1-H53BE-450-000	428C4		/ /	/	/ / /
D-9	R&R cyclic stick grip assembly	A1-H53BE-140-000	1411E11		/ /	*	/ / /
D-10	R&R collective stick grip assembly	A1-H53BE-140-000	1411111		/ /	*	/ / /

B.47 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the flight control systems using appropriate maintenance procedures and support/test equipment. (H-53D)

A	Theory of operation						
A-1	Flight control systems	A1-H53AD-POM-100		*	/ / /	*	/ / /
A-2	Stick trim system	A1-H53AD-POM-100		*	/ / /	*	/ / /
A-3	Hydraulic warning & indicating system	A1-H53AD-POM-100		*	/ / /	*	/ / /
A-4	Automatic flight control system	A1-H53AD-POM-200		*	/ / /	*	/ / /
B	Functional check						
B-1	Flight control systems	A1-H53AD-140-000		*	/ / /	*	/ / /
B-2	Stick trim system	A1-H53AD-140-000		*	/ / /	*	/ / /
B-3	Hydraulic warning & indicating system	A1-H53AD-140-000			/ /	*	/ / /
B-4	Automatic flight control system	A1-H53AD-570-000		*	/ / /	*	/ / /
C	Fault isolation						
C-1	Flight control systems	A1-H53AD-TTM-100	14000		/ / /	*	/ / /
C-2	Stick trim system	A1-H53AD-TTM-200	57560	*	/ / /	*	/ / /

DA B.47 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C-3	Hydraulic warning & indicating system	A1-H53AD-TTM-200	4511E		/ / /	* / /	
C-4	Automatic flight control system	A1-H53AD-TTM-200	57560		* / /	* / /	
D	Organizational maintenance						
D-1	Stick trim system				/ /	/ /	
D-1.1	Adjusts trim system	A1-H53AD-140-000	5756D00		* / /	* / /	
D-1.2	R&R stick trim amplifier	A1-H53AD-140-000	5756D00		/ /	* / /	
D-1.3	R&R stick trim sensor	A1-H53AD-140-000	1411G		/ /	* / /	
D-2	R&R lateral accelerometer	A1-H53AD-570-000	57564		/ /	* / /	
D-3	R&R AFCS control panel	A1-H53AD-570-000			/ /	* / /	
D-4	R&R altitude controller	A1-H53AD-570-000	5756300		/ /	* / /	
D-5	R&R AFCS amplifier	A1-H53AD-570-000	5756600		/ /	* / /	
D-6	Adjust pitch position sensor	A1-H53AD-570-000	57560		/ /	* / /	
D-7	R&R pitch position sensor	A1-H53AD-570-000	57560		/ /	* / /	
D-8	R&R dew point indicator cartridge	A1-H53AD-570-000	57567		/ /	* / /	
D-9	Adjust nulling unit	A1-H53AD-570-000	5756A		/ /	* / /	
D-10	R&R nulling unit	A1-H53AD-570-000	5756A		/ /	* / /	
D-11	R&R dual channel synchronizer	A1-H53AD-570-000	5756B00		/ /	* / /	

B.48 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the caution/advisory system using appropriate maintenance procedures and support/test equipment. (CH-53E)

A	Theory of operation						
A-1	Caution/advisory system	A1-H53BE-POM-200			* / /	* / /	
B	Functional check						
B-1	Caution/advisory system	A1-H53BE-TTM-200			/ /	* / /	
C	Fault isolation						
C-1	Caution/advisory system	A1-H53BE-TTM-200	12A19		/ /	* / /	

B.49 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the engine monitoring systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Engine monitoring systems	A1-H53XX-POM-1XX			* / /	/ /	
B	Functional check						
B-1	Engine monitoring systems	A1-H53XX-220-000 A1-H53XX-TTM-1XX			/ /	/ /	
C	Fault isolation						
C-1	Engine monitoring systems	A1-H53XX-TTM-1XX	22680		/ /	/ /	
D	Organizational maintenance						
D-1	Engine oil system				/ /	/ /	
D-1.1	R&R engine oil pressure switch	A1-H53XX-220-000	2953412		/ /	/ /	
D-1.2	R&R engine oil temp bulb	A1-H53XX-220-000	29X1C		/ /	/ /	
D-1.3	R&R engine oil temp indicator	A1-H53XX-220-000	29X1C		/ /	/ /	
D-2	Engine WF system				/ /	/ /	

DA B.49 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-2.1	R&R engine WF indicator	A1-H53XX-220-000	2953C30		/ /	/ /	
D-2.2	R&R engine WF transmitter	A1-H53XX-220-000	29X1M		/ /	/ /	
D-3	Engine NG system				/ /	/ /	
D-3.1	R&R engine NG indicator	A1-H53XX-220-000	2953C10		/ /	/ /	
D-3.2	R&R engine NG tach generator	A1-H53XX-220-000	29X1A		/ /	/ /	
D-3.3	R&R engine over speed electronic switch	A1-H53XX-220-000	22683		/ /	*	/ /

B.50 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the transmission system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Transmission oil pressure indicating system	A1-H53XX-POM-1XX			*	/ /	*
A-2	Transmission oil temperature indicating system	A1-H53XX-POM-1XX			*	/ /	*
A-3	Transmission oil hot warning sys	A1-H53XX-POM-1XX			*	/ /	*
A-4	Transmission low oil pressure warning system	A1-H53XX-POM-1XX			*	/ /	*
A-5	Nose gear box oil temperature indicating system	A1-H53XX-POM-1XX			*	/ /	*
A-6	Nose gear box low oil pressure warning system	A1-H53XX-POM-1XX			*	/ /	*
A-7	Nose gear box oil hot warning sys	A1-H53XX-POM-1XX			*	/ /	*
A-8	Accessory gear box low oil pressure warning system	A1-H53XX-POM-1XX			*	/ /	*
A-9	Accessory gear box oil hot warning system	A1-H53XX-POM-1XX			*	/ /	*
B	Functional check						
B-1	Rotor brake system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			*	/ /	*
B-2	Transmission oil pressure indicating system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/	/	*
B-3	Transmission oil temperature indicating system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/	/	*
B-4	Transmission oil hot warning sys	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/	/	/
B-5	Transmission low oil pressure warning system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/	/	/
B-6	Nose gear box oil temperature indicating system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/	/	*
B-7	Nose gear box low oil pressure warning system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/	/	*
B-8	Nose gear box oil hot warning sys	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/	/	/
B-9	Accessory gear box low oil pressure warning system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/	/	/

DA B.50 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-10	Accessory gear box oil hot warning system	A1-H53XX-260-000 A1-H53XX-TTM-1XX			/ /	/ /	
C	Fault isolation						
C-1	Rotor brake system	A1-H53XX-TTM-1XX	26C1110		* / /	* / /	
C-2	Transmission oil pressure indicating system	A1-H53XX-TTM-1XX	26C1D		/ /	* / /	
C-3	Transmission oil temperature indicating system	A1-H53XX-TTM-1XX	26C1D			/ /	* / /
C-4	Transmission oil hot warning sys	A1-H53XX-TTM-1XX	26C1D		/ /	/ /	
C-5	Transmission low oil pressure warning system	A1-H53XX-TTM-1XX	26C1D		/ /	/ /	
C-6	Nose gear box oil temperature indicating system	A1-H53XX-TTM-1XX	26C1D		/ /	/ /	
C-7	Nose gear box low oil pressure warning system	A1-H53XX-TTM-1XX	26C1D		/ /	* / /	
C-8	Nose gear box oil hot warning sys	A1-H53XX-TTM-1XX	26C1D		/ /	/ /	
C-9	Accessory gear box low oil pressure warning system	A1-H53XX-TTM-1XX	26C1D		/ /	/ /	
C-10	Accessory gear box oil hot warning system	A1-H53XX-TTM-1XX	26C1D		/ /	/ /	
D	Organizational maintenance						
D-1	R&R main gear box temperature bulb	A1-H53XX-260-000	26C1D		/ /	* / /	
D-2	R&R main gear box temp plug stat	A1-H53XX-260-000	26C1D		/ /	* / /	

B.51 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the pitot-static system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Pitot-static system	A1-H53XX-POM-1XX			* / /	* / /	
B	Functional check						
B-1	Pitot-static system	A1-H53XX-500-000 A1-H53XX-TTM-1XX			* / /	* / /	
C	Fault isolation						
C-1	Pitot-static system	A1-H53XX-TTM-1XX	51H5200		/ /	* / /	
D	Organizational maintenance						
D-1	R&R airspeed indicator	A1-H53XX-500-000	51H5200		/ /	* / /	
D-2	R&R barometric indicator	A1-H53XX-500-000	51X17		/ /	* / /	

B.52 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the windshield anti-ice system using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Windshield anti-ice system	A1-H53XX-POM-1XX			/ /	* / /	
B	Functional check						

DA B.52 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-1	Windshield anti-ice system	A1-H53XX-400-000 A1-H53XX-TTM-1XX			/ /	*	/ /
C	Functional check						
C-1	Windshield anti-ice system	A1-H53XX-TTM-1XX WP 019 00	41210		/ /	*	/ /

B.53 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the interior/exterior lighting systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Interior/exterior lighting systems	A1-H53XX-POM-2XX			/ /	*	/ /
B	Functional check						
B-1	Interior/exterior lighting systems	A1-H53XX-TTM-2XX			/ /	*	/ /
C	Fault isolation						
C-1	Interior/exterior lighting systems	A1-H53XX-TTM-2XX	428L0		/ /	*	/ /
D	Organizational maintenance						
D-1	R&R anti-collision lights (2)	A1-H53XX-420-000	4411B		/ /	/	/
D-2	R&R controllable spot light	A1-H53XX-420-000	44116		/ /	/	/
D-3	R&R landing-hover light	A1-H53XX-420-000	428L5		/ /	/	/

B.54 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the relay/control panels using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Relay/control panels	A1-H53XX-POM-2XX			/ /	*	/ /
B	Functional check						
B-1	Relay/control panels	A1-H53XX-TTM-2XX			/ /	*	/ /
C	Fault isolation						
C-1	Relay/control panels	A1-H53XX-TTM-2XX			/ /	*	/ /
D	Organizational maintenance						
D-1	R&R general relay panels	A1-H53XX-420-000	42314		/ /	*	/ /
D-2	R&R control panel (upper/lower)	A1-H53XX-420-000	12A10		/ /	/	/

B.55 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the power plant systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Engine speed trim system	A1-H53XX-POM-1XX			* / /	*	/ /
A-2	Engine anti-ice system	A1-H53XX-POM-1XX			/ /	*	/ /
B	Functional check						
B-1	Engine speed trim system	A1-H53XX-220-000 A1-H53XX-TTM-1XX			/ /	*	/ /

DA B.55 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-2	Engine anti-ice system	A1-H53XX-220-000 A1-H53XX-TTM-1XX			/ /	* / /	
C	Fault isolation						
C-1	Engine speed trim system	A1-H53XX-TTM-1XX	22680		/ /	* / /	
C-2	Engine anti-ice system	A1-H53XX-TTM-1XX	41110		/ /	* / /	
D	Organizational maintenance						
D-1	Engine anti-ice system				/ /	/ /	
D-1.1	R&R engine anti-ice temp control	A1-H53XX-220-000	4111100		/ /	* / /	

B.56 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the utility systems using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Heating & ventilating systems	A1-H53XX-POM-1XX			* / /	* / /	
A-2	Windshield wiper system	A1-H53XX-POM-1XX			/ /	* / /	
A-3	Windshield washer system	A1-H53XX-POM-1XX			/ /	* / /	
A-4	Visual aural debark system	A1-H53XX-POM-1XX			/ /	* / /	
B	Functional check						
B-1	Heating & ventilating systems	A1-H53XX-400-000 A1-H53BE-TTM-1XX			/ /	* / /	
B-2	Windshield wiper system	A1-H53XX-400-000 A1-H53BE-TTM-1XX			/ /	/ /	
B-3	Windshield washer system	A1-H53XX-400-000 A1-H53BE-TTM-1XX			/ /	/ /	
B-4	Visual aural debark system	A1-H53XX-400-000 A1-H53BE-TTM-1XX			/ /	/ /	
C	Fault isolation						
C-1	Heating & ventilating systems	A1-H53BE-TTM-1XX	12110		/ /	* / /	
C-2	Windshield wiper system	A1-H53BE-TTM-1XX	12210		/ /	/ /	
C-3	Windshield washer system	A1-H53BE-TTM-1XX	12210		/ /	/ /	
C-4	Visual aural debark system	A1-H53BE-TTM-1XX	49210		/ /	/ /	

B.57 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the interior/exterior light using appropriate maintenance procedures and support/test equipment. (H-53D)

A	Theory of operation						
A-1	Exterior lighting system	A1-H53XX-POM-1XX			/ /	* / /	
A-2	Interior lighting system	A1-H53XX-POM-1XX			/ /	* / /	
B	Functional check						
B-1	Exterior lighting system	A1-H53XX-420-000			/ /	* / /	
B-2	Interior lighting system	A1-H53XX-420-000			/ /	* / /	
C	Fault isolation						
C-1	Exterior lighting system	A1-H53XX-TTM-2XX	44110		/ /	* / /	
C-2	Interior lighting system	A1-H53XX-TTM-2XX	442XX		/ /	* / /	

DA B.57 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Organizational maintenance						
D-1	Exterior lights				/ /	/ /	
D-1.1	R&R anti-collision light	A1-H53XX-420-000	44112		/ /	*	/ /
D-1.2	R&R controllable spotlight	A1-H53XX-420-000	44116		/ /	*	/ /
D-1.3	R&R sponson position lights	A1-H53XX-420-000	4411F		/ /	/	/
D-1.4	R&R flasher unit	A1-H53XX-420-000	44110		/ /	*	/ /
D-1.5	R&R dimming units	A1-H53XX-420-000	44000		/ /	/	/
D-1.6	R&R rotary wing blade tip lights	A1-H53XX-420-000	44110		/ /	*	/ /
D-1.7	R&R fuselage formation lights	A1-H53XX-420-000	44110		/ /	*	/ /
D-2	Interior lights				/ /	/	/
D-2.1	R&R console lights	A1-H53XX-420-000	442XX		/ /	/	/
D-2.2	Install blue light kit	A1-H53XX-420-000	12R1100		/ /	*	/ /
D-2.3	R&R emergency exit lights	A1-H53XX-420-000	44227		/ /	/	/

B.58 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **instrument systems** using appropriate maintenance procedures and support/test equipment. (H-53D)

A	Theory of operation						
A-1	Magnetic compass system	A1-H53XX-POM-1XX			/ /	*	/ /
A-2	Caution & advisory systems	A1-H53XX-POM-1XX			/ /	*	/ /
A-3	Cruise guide system	A1-H53XX-POM-1XX			/ /	*	/ /
A-4	Pitot-static system	A1-H53XX-POM-1XX			/ /	*	/ /
A-5	Vertical gyro system	A1-H53XX-POM-1XX			/ /	*	/ /
B	Functional check						
B-1	Magnetic compass system	A1-H53XX-500-000			/ /	*	/ /
B-2	Caution & advisory systems	A1-H53XX-500-000			/ /	*	/ /
B-3	Cruise guide system	A1-H53XX-500-000			/ /	*	/ /
B-4	Vertical gyro system	A1-H53XX-500-000			/ /	*	/ /
C	Fault isolation						
C-1	Magnetic compass system	A1-H53XX-TTM-2XX	51R1G		/ /	*	/ /
C-2	Caution & advisory systems	A1-H53XX-TTM-200	428M0		/ /	*	/ /
C-3	Cruise guide system	A1-H53XX-TTM-1XX	56220		/ /	*	/ /
C-4	Vertical gyro system	A1-H53XX-TTM-2XX	56820		/ /	*	/ /
D	Organizational maintenance						
D-1	Applies instrument indicator decal	A1-H53XX-500-000	51XX0		/ /	/	/
D-2	R&R elapsed time clock	A1-H53XX-500-000	51X1Y		/ /	/	/
D-3	Standby compass				/ /	/	/
D-3.1	R&R standby compass	A1-H53XX-500-000	51R1G		/ /	*	/ /
D-3.2	Adjusts standby compass	A1-H53XX-500-000	51R1G		/ /	*	/ /
D-4	Caution & advisory systems				/ /	/	/
D-4.1	R&R caution panel	A1-H53XX-500-000	51H56		/ /	*	/ /
D-4.2	R&R master caution lights	A1-H53XX-500-000	51H54		/ /	*	/ /
D-5	Cruise guide system				/ /	/	/
D-5.1	R&R cruise guide amplifier	A1-H53XX-500-000	5622100		/ /	/	/

DA B.58 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-5.2	R&R attitude indicators	A1-H53XX-500-000	51R1F	/ /	*	/ /	
D-5.3	R&R vertical gyros	A1-H53XX-500-000	56823	/ /	*	/ /	
D-5.4	R&R power failure detectors	A1-H53XX-500-000	56821	/ /	/ /	/ /	
D-5.5	R&R rate switching gyros	A1-H53XX-500-000	56820	/ /	/ /	/ /	

APPENDIX A

INDIVIDUAL EXPERIENCE DATA SHEET

INDIVIDUAL DATA

UNIT EXPERIENCE DATA

NAME: _____

UNIT

SHOP

BILLET

FROM/TO DATES

SSN: _____

FORMAL SCHOOLS

SCHOOLS NAME

DATE COMPLETED

COMMENTS:

ITSS (MATMEP)

APPENDIX C

WORK CENTER SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEM TECHNICIAN (MOS 6323)

WORK CENTER NAME/NUMBER: _____

NAME/MOS	LEVEL	A.1	A.2	A.3	A.4	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	B.9	B.10	B.11
	II					XXXX	XXXX	XXXX			XXXX		XXXX			
	III					XXXX		XXXX					XXXX			
	IV															
	II					XXXX	XXXX	XXXX			XXXX		XXXX			
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	II					XXXX	XXXX	XXXX			XXXX		XXXX			
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	II					XXXX	XXXX	XXXX			XXXX		XXXX			
	III					XXXX		XXXX					XXXX			
	IV															

ITSS (MATMEP)

WORK CENTER SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEM TECHNICIAN (MOS 6323)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	B.12	B.13	B.14	B.15	B.16	B.17	B.18	B.19	B.20	B.21	B.22	B.23	B.24	B.25	B.26
	II		XXXX						XXXX			XXXX	XXXX			
	III					XXXX			XXXX				XXXX			
	IV															
	II		XXXX						XXXX			XXXX	XXXX			
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	III					XXXX			XXXX				XXXX			
	IV															

DATE: FEBRUARY 2002

ITSS (MATMEP)

WORK CENTER SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEM TECHNICIAN (MOS 6323)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	B.27	B.28	B.29	B.30	B.31	B.32	B.33	B.34	B.35	B.36	B.37	B.38	B.39	B.40	B.41
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	II		XXXX										XXXX			XXXX

ITSS (MATMEP)

WORK CENTER SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEM TECHNICIAN (MOS 6323)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	B. 42	B. 43	B. 44	B. 45	B. 46	B. 47	B. 48	B. 49	B. 50	B. 51	B. 52	B. 53	B. 54	B. 55	B. 56
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	II	XXXX										XXXX	XXXX	XXXX		
	III															
	IV															

WORK CENTER SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION/ELECTRICAL SYSTEM TECHNICIAN (MOS 6323)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	B. 57	B. 58
	II	XXXX	XXXX
	III		
	IV		
	II	XXXX	XXXX
	III		
	IV		
	II	XXXX	XXXX
	III		
	IV		
	II	XXXX	XXXX
	III		
	IV		
	II	XXXX	XXXX
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	IV		
	II	XXXX	XXXX
	III		
	IV		

ITSS (MATMEP)

APPENDIX D

SUPPORT EQUIPMENT LICENSING RECORD

NAME / SSN:

RANK:

MOS:

DATE: FEBRUARY 2002