

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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WARRANTY PROGRAM  
FOR  
HELICOPTER, ELECTRONIC WARFARE/UTILITY  
EH/UH-60A

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HEADQUARTERS, DEPARTMENT OF THE ARMY, WASHINGTON, DC

13 May 1988

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

The reporting of errors, omissions, and recommendations for improving this publication is recommended. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded direct to: Commander, U.S. Army Aviation Systems Command, ATTN: AMSAV-MPSD, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you.

1. GENERAL.

a. This Warranty Technical Bulletin (WTB) is for use by warranty control officers and user activities to provide guidance for management and application of the warranty program for the EH/UH-60A Helicopter and applicable associated subsystems.

b. DA Pamphlet 738-751, Functional Users Manual for The Army Maintenance Management System-Aviation (TAMMS-A), is used to track hours of operation/flight.

c. The warranty on all secondary components is limited to a one time failure.

d. Check all warranty identification cards for positive item identification.

2. EXPLANATION OF TERMS. The following explanation of terms peculiar to warranty and contract terminology are used within this WTB.

a. Government Acceptance Date (GAD). The date an item of equipment is accepted into Army inventory by the execution of the acceptance block and signing of a DD Form 250 or approved acceptance document, by an authorized representative of the Government.

b. Fail/Failure. A malfunction or breakage of a warranted item (due to ordinary usage or wear and tear) or damage to a warranted item which renders it unserviceable by reason of a condition which causes a warranted item to fail to meet any conformance/performance requirement.

c. Primary Component. Any selected field replaceable, depot repairable, serialized, major component which is warranted for the full period specified regardless of where or when installed.

d. Repair. To restore an item to serviceable condition without affecting its warranty (includes replacement, where replacement is necessary to achieve conformance or performance requirements).

e. Resultant Failure/Damage. Failure suffered directly by a warranted part(s) which is induced/caused primarily by failure of another warranted part(s)/item(s), both/all provided by and warranted by the manufacturer/contractor.

f. Secondary Component. Any field replaceable, depot repairable, serialized subcomponent of a primary component which is warranted only as a subassembly or part of a warranted aircraft or primary component in which it is originally installed.

g. Spare. A primary component purchased separately as a spare part and/or repair part not installed in an end item (aircraft).

h. WARCO. Warranty Control Office/Officer. Established at the intermediate general support level or equivalent and serves as the intermediary between the troops owning the equipment and the U.S. Army Aviation Systems Command (USAAVSCOM).

i. Warranty. A promise or statement of fact from a seller to a purchaser on the nature, usefulness, or condition of the supplies or performance of services to be furnished. The main purpose of a warranty in a Government contract is to outline the rights and obligations of the contractor and the Government for defective items and/or services.

j. Warranty Claim. Action initiated by the equipment user for authorized warranty repair, replacement or reimbursement from the manufacturer/contractor.

k. Warranty Period. Time interval during which the warranty is in effect. Normally measured as the maximum number of years, months or flight operating hours.

3. COVERAGES.

a. Helicopter, Electronic/Warfare Utility

- (1) Model EH-60A, NSN 1520-01-082-0686.
- (2) Model UH-60A, NSN 1520-01-035-0266.
- (3) FSCM 78286.
- (4) Serial Numbers 88-26015 and subsequent,
- (5) Contract DAAJ09-88-C-A003.
- (6) Coverages.

(a) Warranty coverage begins at the GAD and lasts for 160 flight hours or 12 months, whichever occurs first.

(b) Refer to Appendices A and B for list of the EH/UH-60A Helicopter warranted primary components.

b. Engine, Gas Turbine.

- (1) Model T700-GE-700, P/N 6035T00G01, NSN 2840-01-070-1003.
- (2) FSCM 99207.
- (3) Contract DAAJ09-85-C-A481.
- (4) Coverage.

(a) Warranty coverage begins at the GAD and lasts for 240 flight hours or 24 months, whichever occurs first, for the primary or secondary components originally installed in the helicopter or any spare component covered by the warranty.

(b) Refer to Appendix C for a list of the T700-GE-700 Engine primary and secondary components.

c. Auxiliary Power Unit (APU) and Electronic Sequencing Unit (ESU).

- (1) APU, P/N 116305-200, FSCM 55820, NSN 2835-01-166-9129.
- (2) ESU, P/N 163290-100, FSCM 55820, NSN 2835-01-169-5291.
- (3) Contract DAAJ09-85-C-A607.
- (4) Coverage.

(a) Warranty coverage begins at the MD and lasts for 240 flight hours or 24 months, whichever occurs first, for the primary and secondary components of the APU. Warranty coverage begins at the GAD and lasts for 24 months for the ESU.

(b) The secondary components are as follows:

<u>Nomenclature</u>	<u>FSCM</u>	<u>Part Number</u>	<u>NSN</u>
Control Assembly	55820	106107-400	2835-01-106-9132
Fuel Pump	55820	104030-2	2910-01-111-0160

4. CONTRACTOR RESPONSIBILITY.

a. The contractor, upon preliminary determination of warranty coverage, shall provide all materials, labor, facilities, tools, etc., needed to effect repair and commence to repair/replace such parts, IAW published service/repair procedures, as necessary to achieve specified "return-to-service" requirements.

b. The item(s) determined to be defective, due to defective material or workmanship, shall be repaired or replaced at the option of the contractor at no cost to the Government.

c. The contractor's responsibility for coverage of Resultant Failure/Damage shall be limited to repair of the failed warranted "Primary and/or Secondary Components." The contractor shall not be liable for damage done through misuse or abuse by the Government or for damage to or induced in other non-warranted parts.

5. GOVERNMENT RESPONSIBILITY.

a. The contractor must be notified by AVSCOM in writing of any failure:

(1) for any aircraft warranted component with 60 days after discovery of a failure. In order to receive warranty coverage, the Government must deliver the reported warranty item(s) to the authorized repair site within 90 days after the discovery of the failure.

(2) for any engine or APU warranted component within 90 days after discovery of a failure. In order to receive warranty coverage, the Government must deliver the reported warranty item(s) to the authorized repair site within 180 days after the discovery of the failure.

b. AVUM or AVIM maintenance will be performed by Government personnel IAW published maintenance procedures (TMs, TBs, etc.). Such maintenance does not void any coverage under warranty and is at Government expense, including parts and labor.

c. Alterations and/or modifications shall not be made unless expressly authorized or directed by USAAVSCOM.

d. For all components covered under warranty, the Government shall bear all transportation costs and liability for shipments to the designated repair facility.

6. NULLIFICATION. The provisions of the warranties, covered by this publication, shall not apply to any warranted item if failure has been caused by:

- a. Improper installation or maintenance.
- b. Operation contrary to the TMs (or other written instructions provided to and approved by the Government) in such a way as to induce a failure.
- c. Repair or alteration by the Government in such a way as to induce a failure.
- d. Misuse, neglect, or accident.
- e. Combat damage.
- f. Foreign object damage.
- g. Test program damage.
- h. Failure caused by acts of God, the public enemy, subversion, riots, vandalism, sabotage, flood or similar causes, fire or explosion induced by or originating from sources external to the warranted item(s).

7. CLAIM PROCEDURES.

- a. Identification of warranted items.

(1) Warranted primary aircraft components delivered on warranted aircraft will be identified on DA Form 2408-15 AMSAV-Q Overprint 2 (Figure 3). When a warranted aircraft component is replaced, write the serial number of the newly installed component in the serial number block of the DA Form 2408-15 Card next to the affected part number. Aircraft warranted components can be laterally transferred from one warranted aircraft to another warranted aircraft without loss of coverage.

(2) Warranted primary components for end items (e.g., engine, APU, etc.) are identified by an affixed decal (Figure 1) stating that the item is warranted and indicating the expiration date. A DA Form 2408-15 AMSAV-Q overprint 2 (Warranty Identification Card (WIC)) (Figure 3) accompanies each primary component and is retained in the Aircraft Historical Record Logbook for installed components. Lateral transfer cannibalization of a warranted primary component to another aircraft is acceptable provided the DA Form 2408-15 AMSAV-Q Overprint 2 (WIC) accompanies the component. However,

secondary components are warranted only as a subassembly or part of a warranted primary component in which they were originally installed; therefore, lateral transfer (cannibalization) of a serviceable secondary component should be avoided.

(3) If there is doubt concerning warranty coverage, questions, or if other assistance concerning the warranty program is required, please contact your local Logistic Assistance Representative (LAR). Special inquiries can be made in writing to: U.S. Army Aviation Systems Command, ATTN: AMSAV-QR, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798, or by calling AUTOVON 693-1771 or Commercial (314) 263-1771.

b. Reporting Procedures. When a failure of a warranted item that requires depot maintenance occurs, the reporting unit/maintenance activity will verify that the failed component is a warranted item (reference paragraph 7a). The maintenance level which determines unserviceability of a warranted item will initiate the warranty claim action.

(1) Tag all warranty claim exhibits with a DA Form 2402 exchange tag (Figure 2) to allow for ease of warranty item identification. The tag will be overprinted in red letters, "Warranty Exhibit."

(2) The maintenance activity initiating the warranty claim will:

(a) Prepare DA Form 2407 (Figure 4) IAW DA pamphlet 738-751.

(b) Copy 1 - Not used, remove and destroy.

(c) Copy 2 - Forward to:

Commander  
U.S. Army Aviation Systems Command  
ATTN: AMSAV-QR  
4300 Goodfellow Blvd.  
St. Louis, MO 63120-1798

(d) Copies 3 and 4 - Retain for local use or until receipt of shipping/disposition instructions (NICP).

(e) Copy 5 - Ship with the component.

NOTE - Ensure that all copies are legible.

(3) The Warranty Identification Card (WIC) (Figure 3) will be removed from the logbook and shipped with any engine or APU primary component returned for warranty repair. When secondary components are removed and returned for warranty claim, the component entry will be lined out on the WIC where it is listed and the card returned to the aircraft logbook.

(4) A Category II (SF 368) Quality Deficiency Report (QDR) shall not be utilized for item(s) covered under warranty. When the warranty period has expired, and the conditions specified in DA Pamphlet 738-751, paragraph 2-13, are applicable, an SF 368 (QDR) will be submitted.

(5) When a defective item meets the criteria for a Category I report, as prescribed in DA Pamphlet 738-751, a deficiency report will be submitted IAW paragraph 2-14. A Category I report for a warranted item should be followed up with the submission of the DA Form 2407 (Warranty Claim).

(6) When the warranty period on any aircraft or primary component has expired, the DA Form 2408-15 AMSAV-Q Overprint 2 (WIC) will be removed from the logbook and forwarded to:

Commander  
U.S. Army Aviation Systems Command  
ATTN: AMSAV-QR  
4300 Goodfellow Blvd.  
St. Louis, MO 63120-1798

8. STORAGE/SHIPMENT/HANDLING.

a. Warranty claim exhibits will be cleaned, preserved, tagged and packaged to prevent damage during handling, storage and shipment. Disposition/shipping instructions from AVSCOM will specify the accountability and transportation information necessary.

b. Disposition of Exhibits.

(1) Warranty exhibits will be retained within the Aviation Unit Maintenance/Aviation Intermediate Maintenance unit until receipt of disposition/shipping instructions from AVSCOM (including CECOM items in Appendix B).

**NOTE**

All warranted Aviation Intensively Managed Items (AIMI) that fail, should be reported telephonically to the U.S. Army Aviation Systems Command, AUTOVON 693-1771 or Commercial (314) 263-1771. AIMI items in turn will receive immediate disposition instructions from AVSCOM.

(2) The reporting unit/maintenance activity is authorized to return any warranty exhibit through normal supply turn in or through ARIL, if the shipping/disposition instructions have not been received within 45 days from the original date of the warranty claim.

**WARRANTY**

NSN

PI IN

MFR  3N

TM

DATE  LIMIT

Figure 1. Warranty Decal

U. S. GPO 1986-161-818 EDITION OF MAY 81 IS OBSOLETE WARRANTY EXHIBIT EXCHANGE TAG (TM 38-750)	1. SUPPORT AGENCY (DODAAC) <i>WKLAAP</i>		2. DATE <i>5246</i>		COPY 1          DA FORM 2402 DEC 85
	3. ORGANIZATION (DODAAC) <i>WCADAA</i>		4. <input checked="" type="checkbox"/> WARRANTY <input type="checkbox"/> AIR EXHIBIT <input type="checkbox"/> EXCHANGE		
	6. NSN <i>1615-01-117-1119</i>		5. NOUN NOMENCLATURE <i>FWO TRANSMISSION</i>		
	7. PD <i>02</i>		8. PD AUTHENTICATION <i>CPT. JOHN M. BABS</i>		
	9. END ITEM NOUN NOMENCLATURE <i>HELICOPTER</i>		10. MODEL <i>CH-47D</i>		
	11. SERIAL NO. <i>A7-04B FO</i>		12. DEFICIENCY OR SYMPTOM <i>EXCESSIVE METAL CONT.</i>		
	13. DATE ACCEPTED <i>5252</i>		14. SIGNATURE <i>John Doe</i>		
	15. NMCS <i>YES</i>		16. JON <i>5-24B</i>		
	17. INITIALS <i>JMH</i>		18. DATE REPAIRED <i>5262</i>		
	19. INITIALS <i>ABE</i>				

Figure 2. Sample of a Completed D A Form 2402



1. MODEL UH-60A	1a. NOMENCLATURE UTILITY/WARFARE HELICOPTER	2. SERIAL NUMBER 88-26016	2a. MFG CODE 78286	3. PAGE NO. 2	4. NO. OF PAGES 2
5. PART NUMBER	6. NSN 1520-01-035-0266	7. WARRANTY PERIOD EXPIRATION DATE (M/Y) 12 mos COMPONENT HOURS 160 A/C			
NOMENCLATURE	PART NUMBER	SERIAL NO	NOMENCLATURE	PART NUMBER	SERIAL NO
Actuator Assy	70410-02561-105		Control Unit APU	163290-100	
Motor Pump Hyd	70550-02046-106		Control Assy	106107-400	
Valve Anti-Ice	70306-10012-107		Electr Prime Pump	70307-03005-104	
Yoke & Housg Assy	70400-01201-043		Starter Pneumatic	70306-10000-106	
Distrib De-Ice	70550-02127-103		Starter Eng Hyd	70651-03210-101	
Servo Flt Contr	70400-02260A		Pump Fuel Eng	104030-2	
Control Unit Gen	70550-02031-110		Cargo Hook	70800-02503	
Stab Accuator	70400-06641-115		Pump Unit Hyd	70652-02950	
Fault Monitor	70902-01110-042		Module Assy Pump	70652-02300-050	
Serv Yw Trim Assy	70400-02260-117		Pump Rotary	70351-08144-101	
Circuit Card Assy	844328-1		Valve Solenoid	70306-02102-105	
Circuit Card Assy	843788-1		Valve Solenoid	70306-02107-104	
Circuit Card Assy	843791-1		Generator	70550-02031-111	

DA FORM 249-15, 1 JAN 64

AMSAY-Q Overprint 2, 1 Nov 84  
REPLACES DRSAV-Q OVERPRINT 2, 1 JUN 84, WHICH IS OBSOLETE.

WARRANTY IDENTIFICATION CARD - HISTORICAL RECORD FOR AIRCRAFT  
(TM 38-750)

Figure 3. Sample of a Completed Warranty Identification Card

MAINTENANCE REQUEST					PAGE NO.	NO. OF PAGES	REQUIREMENT CONTROL SYMBOL		
For use of this form, see TM 38-780, the proponent agency is OCSLOG.					1	1	C30LD-1647(R1)		
SECTION I - EQUIPMENT DATA									
CONTROL NUMBER 472692		WORK ORDER NUMBER		WESOC	ORG PD	PD AUTHENTICATION			
<input type="checkbox"/> WORK REQUEST <input type="checkbox"/> WARRANTY CLAIM	1a. ORGANIZATION 117th AIN CO			b. LOCATION FT. EASTIS, VA 23604		c. UNIT IDENT CODE WAYTAA			
3. SERIAL NO. 83-15767	5. NOUN NOMENCLATURE HELICOPTER		4. LINE NO.	6. MODEL CH-47D		5. NATIONAL STOCK NUMBER 1520-01-088-3669			
7. MAINTENANCE ACTIVITY 68th TRANS Co.	8. LEVEL F	9. UTILIZATION CODE Ø	10. HOUR ITEM	11. PACING ITEM	12. HOURS 80	13. MILES	14. ROUNDS		
15. FAILURE DETECTED DURING (Select one - use 1 or 2) <input type="checkbox"/> A Repaired <input type="checkbox"/> B Handling <input type="checkbox"/> C Test <input type="checkbox"/> D Normal Op				16. FIRST INDICATION OF TROUBLE (Select one - use 1 or 2) <input checked="" type="checkbox"/> 1 Inoperative <input type="checkbox"/> 2 In Holdy <input type="checkbox"/> 3 Overheating <input type="checkbox"/> 4 Low Performance <input type="checkbox"/> 5 Out of Adjustment <input type="checkbox"/> 6 Other					
17. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs) WARRANTY CLAIM Hyd Accumulator will not hold charge.									
18a. REMARKS AV 971-1234									
SECTION II - WORK ACCOMPLISHED									
17a. REPAIR ORGANIZATION/ACTIVITY			c. UNIT IDENT CODE		18. TYPE ORGANIZATION/ACTIVITY AC. COMPLETING WORK (Select one - use 1 or 2) <input type="checkbox"/> 1 TOE <input type="checkbox"/> 2 TO <input type="checkbox"/> 3 CONTRACTOR		19. AMS ACCOUNT CODE		
8. LOCATION									
20a. ACT CODE	FAILURE CODE	7. COMPONENT/PART NAME, SVC. OR MSG NO.			MANHOURS (Min & Decimals)	NATIONAL STOCK NUMBER	PART QUANTITY	QTY	PARTS COST
	002	Accumulator	12228	97299		1560-01-116-2899		1	
L. TOTAL MANHOURS					M. TOTAL MANHOURS COST	N. TOTAL PARTS COST			
21. DELAY (Select one) <input type="checkbox"/> None <input type="checkbox"/> 1 Minor <input type="checkbox"/> 2 Moderate <input type="checkbox"/> 3 Severe					22. DATA TRANSCRIBED				
23. SUBMITTED BY W. Orace	24. RECEIVED BY	25. WORK STARTED BY	26. INSPECTED BY	27. ACCEPTED BY	28. DISPOSITION (Select one) <input type="checkbox"/> A To User <input type="checkbox"/> B To Stock <input type="checkbox"/> C Salvaged <input type="checkbox"/> D Evaluated <input type="checkbox"/> E Condemned				
JULIAN DATE 5890	JULIAN DATE	JULIAN DATE	JULIAN DATE	JULIAN DATE					

DA FORM 2407 MAY 81

EDITION OF JUL 79 IS OBSOLETE.

REPAIR COPY 2

Figure 4. Sample of a Completed D A Form 2407 for Warranty Claim Actions

## APPENDIX A

<u>NAME</u>	<u>FSCM</u>	<u>PART NUMBER</u>	<u>NSN</u>
Main Rotor Blade	78286	70150-09100-043	1615011061903
Blade Tail Rotor	78286	70101-31000-043	1615011138188
Main Gearbox Assy	78286	70351-08100-060	1615011682983
Access Gearbox Assy	78286	70351-08080-043	1615010785718
Swashplate Assy	78286	70104-08000-050	1615011997646
Gearbox Assy Input	78286	70351-08001-046	1615012306218
Gearbox Tail	78286	70358-06600-043	1615011051510
Extension Assy MAI	78286	70351-08186-043	1615010745151
Damper Assy, Main	78286	70106-08100-044	1615011465259
Scissors Assy, No 103	78286	70104-08020-045	1615011058716
Shaft Assy	78286	70361-03001-045	1615010812775
Shaft Assy	78286	70361-06002-047	1615011585788
Shaft Assy, Tail	78286	70361-05002-045	1615010832953
Mixer Assy	78286	70400-02300-046	1615012600749
Radiator	78286	70361-03004-103	1615010921987
Blower Transmission	78286	70361-03005-103	1615011386950
Tip Cap Assy MRR	78286	70150-09107-049	1615011319767
Retention Plate	78286	70102-11101-042	1615010836812
Actuator Elec M	78286	70250-13006	1620011499322
Actuator Elec M	78286	70250-13006	1620012186522
Landing Gear, Fix	78286	70250-13101-043	1620012056136
Servo Assy, Prime	78286	70410-02820-054	1650011431226
Accumulator APU	78286	70651-03201-105	1650012224316
Servo Assy, Yaw	78286	70410-02910-065	1650011431227
Servo Assy, Tail	78286	70410-06520-045	1650011255430
Flight Control Coll	78286	70410-02920-053	1650011400967
Actuator Assy	78286	70410-02561-105	1650011061957
Motor Pump Hyd	78286	70550-02046-106	1650012246682
Valve Anti-Ice	78286	70306-10012-107	1660011167091
Yoke and Housing Assy	78286	70400-01201-043	1680010927981
Distributor De-Ice	78286	70550-02127-103	1680011026015
Servo Flight Control	78286	70400-02260A	1680011888208

NOTE: REFER TO TM 55-1520-237-23P TO OBTAIN NSN'S FOR SUBSEQUENT SERIES DASH NUMBERS (LATER CONFIGURATIONS) FOR THE ABOVE LIST OF PART NUMBERS

APPENDIX A  
(continued)

<u>NAME</u>	<u>FSCM</u>	<u>PART NUMBER</u>	<u>NSN</u>
Control Unit Gen	78286	70550-02031-110	6110012246954
Stabilator Actuator	78286	70400-06641-115	1680012281199
Fault Monitor	78286	70902-01110-042	1680011153603
Servo Yaw Trim Assy	78286	70400-02260-117	1680011690858
Circuit Card Assy	78286	844328-1	1680011284414
Circuit Card Assy	78286	843788-1	1680011138236
Circuit Card Assy	78286	843791-1	1680011138235
Control Unit APU	78286	163290-100	2835011695291
Control Assy	78286	106107-400	2835011069132
Electric Prime Pump	78286	70307-03005-104	2915011026019
Starter Pneumatic	78286	70306-10000-106	2995012187809
Starter Eng Hyd	78286	70651-03210-101	2995010799316
Pump Fuel Eng	78286	104030-2	2910011110160
Cargo Hook	78286	70800-02503	4030012346731
Pump Unit Hyd	78286	70652-02950	4320011541339
Module Assy Pump	78286	70652-02300-050	4320012077228
Pump Rotary	78286	70351-08144-101	4320010938111
Valve Solenoid	78286	70306-02102-105	4810011200196
Valve Solenoid	78286	70306-92107-104	4810011022473
Generator	78286	70550-02031-111	6115011149696
Generator Special	78286	70550-02032-103	6115010845229
Motor Alternating	78286	XW21157-11	6105011056529
Vertical Velocity Ind	78286	70450-01088-101	6610011008128
Air Speed Indicator	78286	70450-01042-101	6610010988363
Power Supply Anti-Ice	78286	70553-05002-107	6620011159237
Data Converter	78286	70450-01043-112	6620010842255
Central Display	78286	220-473923-000	6620011250793
Central Display	78286	70450-01043-122	6620012281634
Electronic Comp	78286	220-473864-001	6620011157134
Central Display	78286	220-473910-002	6620011250791
Electronic Comp	78286	220-473860-002	6620011157133
Circuit Card	78286	220-471810-001	6620011087424

NOTE: REFER TO TM 55-1520-237-23P TO OBTAIN NSN'S FOR SUBSEQUENT SERIES DASH NUMBERS (LATER CONFIGURATIONS) FOR THE ABOVE LIST OF PART NUMBERS

APPENDIX A  
(continued)

<u>NAME</u>	<u>FSCM</u>	<u>PART NUMBER</u>	<u>NSN</u>
Circuit Card	78286	220-473913-000	6620011250905
Circuit Card	78286	220-473861-000	6620011157156
Circuit Card	78286	220-473861-001	6620011157157
Circuit Card	78286	220-473916-000	6620011250906
Circuit Card	78286	220-473840-000	6620011157152
Circuit Card	78286	220-473872-000	6620011123091
Circuit Card	78286	220-473875-000	6620011123090
Circuit Card	78286	220-601441-002	5999012466891
Circuit Card	78286	220-473861-002	6620011157158
Circuit Card	78286	220-473896-000	6620011149767
Circuit Card	78286	220-473893-000	6620011149768
Circuit Card	78286	220-473860-000	6620011157155
Valve APU	78286	70651-03300-101	1560010829196
Stabilator Assy	78286	70200-07050-044	1560011250795
SAS Actuator Assy	78286	70410-02500-049	1560011291256
Roll SAS Assy	78286	70410-02450-049	1560011281759
Landing Gear	78286	70250-13101-043	1560012056136
Circuit Card	78286	220-473865-000	6620011157154
Circuit Card	78286	220-601442-001	5999012466892
Circuit Card	78286	220-473865-001	6620011157153
Circuit Card	78286	220-421066-000	5999012341304
Circuit Card	78286	220-473884-000	6620011123092
Circuit Card	78286	220-473887-000	5999011106957
Circuit Card	78286	220-473896-000	5999011149766

NOTE: REFER TO TM 55-1520-237-23P TO OBTAIN NSN'S FODR SUBSEQUENT SERIES DASH NUMBERS (LATER CONFIGURATIONS) FOR THE ABOVE LIST OF PART NUMBERS

## A P P E N D I X B

<u>NSN</u>	<u>NAME</u>	<u>PART NUMBER</u>
*6615012678082	Stabilator Amp	AM-7106D/A
5821012253255	CIS Mode Select Panel	C-10999/A
5990011203047	SAS Amp	AM-7105/A
6130011149690	Battery Charger	PP-7723/U
5821012374765	Compass Control	C-8021E/ASN-75
6610011096405	CIS Processor	CP-1470/A
6610011558315	Vertical Situation Ind	ID-2777A/A
5895012139126	Rate Gyroscope	CN-1552A/A
5821012156152	Flight Control Panel	C-10909B/A
7021011197180	SAS/SPS Computer	CP-1470/A
5821012156679	HSI/VSI Mode Select	C-10998A/A
6605011558326	Horizontal Situation Ind	ID-2278A/A
6685011149557	Transducer Motional	TR-322/A
6685011101024	Transducer Motional	TR-323/A

\*ADDITIONAL WARRANTED SPARES, UNDER CONTRACT DAAJ09-85-C-A006 FOR 48 MONTHS OR 720 FLIGHT HOURS FROM THE GAD.

NOTE: REFER TO TM 11-1520-237-23P TO OBTAIN NSN'S FOR SUBSEQUENT SERIES DASH NUMERS (LATER CONFIGURATIONS) FOR THE ABOVE LIST OF PART NUMBERS

## APPENDIX C

PRIMARY T700 ENGINE COMPONENTS

Hydromechanical Unit (HMU)	4046T52G09	2915011713973
	4046T52G11	2915012249248
Electrical Control Unit (ECU)	4046T29G11	2925011813971
	4046T29G12	2925012459830

SECONDARY T700 ENGINE COMPONENTS

Cold Section Module	6035T02G01	2840010945547
Power Turbine Module	6043T89G01	2840011026014
	6043T61G01	2840010832959
Accessory Gearbox	6035T19G03	2840011019853
Gas Generator Turbine Rotor	6039T54G03	2840011026087
	6039T54602	2840010837091
Gas Generator Turbine Stator	6039T57G02	2840010842468
Stage 1 Nozzle	5043T24G14	2840010837109
Combustion Liner	6039T58G02	2840010842467
Output Shaft Assembly	6039T56G04	2840010836844
Power Takeoff Drive Assembly	5044T27G01	2840010828046
History Recorder	7045M66G01	2995011208714
Anti-Ice Bleed Valve	4046T28G05	2840011347264
Particle Separator Blower	6039T65G01	2840010871685
Pressure Overspeed Unit	4076T64G01	2915011717761
Lube and Scavenge Pump	5034T11P04	2840011264129
Fuel Boost Pump	3033T33G02	2915011208717
Lube Oil Cooler	4046T25G01	2935010842430
Particle Separator Swirl Frame	6038T05G02	2840011077650

NOTE: REFER TO TM 55-2840-248-23P TO OBTAIN NSN'S FOR SUBSEQUENT SERIES DASH SUMMERS (LATER CONFIGURATION) FOR THE ABOVE LIST OF PART NUMBERS.

By Order of the Secretary of the Army:

Official:

**CARL E. VUONO**  
*General, United States Army*  
*Chief of Staff*

**R. L. DILWORTH**  
*Brigadier General, United States Army*  
*The Adjutant General*

DISTRIBUTION:

To be distributed in accordance with DA Form 12-31, AVUM and AVIM Maintenance requirements for EH-60A Helicopter, Electronic Countermeasure and UH-60A Helicopter, Utility (BLACKHAWK).