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# MANUAL CHANGE REQUEST FORM

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TH-57 Program Office  
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22581 Saufley Rd  
Paxtuxent River, MD 20670

Manual Title \_\_\_\_\_

Date of Issue \_\_\_\_\_

Date of Last Revision \_\_\_\_\_

Section, Chapter, Paragraph Affected \_\_\_\_\_

Discrepancy \_\_\_\_\_

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Recommendation \_\_\_\_\_

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# INTRODUCTION

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# INTRODUCTION

## 1-1. USE OF THE MANUAL.

This manual shows differences peculiar to the U. S. Navy TH-57B and C models and provides the approved data to be employed in the maintenance of this helicopter. Chapters are numbered in accordance with Airline Transport Association codes issued Jan 30, 1996. To find a general subject, refer to the List of Chapters located at the beginning of this chapter or use the labeled, tabbed Chapter separators. To find a paragraph containing a specific subject, refer to the Table of Contents located at the beginning of each chapter. To find a specific subject and additional related paragraphs, figures or tables, refer to Alphabetical Index located at the end of Chapter 5.

The instructions provided in this manual supplement the helicopter manufacturer's maintenance manual. They only supersede the helicopter manufacturer's maintenance manual in the areas indicated. All other helicopter manufacturer's maintenance manual procedures should be strictly adhered to.

Inspections, overhaul, and part requirements for modifications are included in this manual. Since modifications may change systems interface, operating characteristics, and fatigue lives, Original Equipment Manufacturer (OEM) provided maintenance criteria may be invalid for the modified helicopter.

## 1-2. TECHNICAL DIRECTIVES.

As necessary, technical directives will be issued to modify and inspect components and systems.

## 1-3. CONSUMABLE MATERIALS.

Consumable materials required while performing maintenance are listed in the text by name and item number such as "solvent (C-304)". The number refers to item 304 in the Consumable Materials List (Refer to Appendix B).

Occasionally, materials used in maintenance change properties, suppliers, or are discontinued. Also, new and more advanced materials become available. In the event of conflict between this manual and Standard Practices manual, the manual with the latest date of issue lists the preferred material.

## 1-4. SPECIAL TOOLS.

Certain maintenance procedures require the use of special tools. Special tools required are listed at the beginning of the applicable maintenance paragraph. A complete description and illustration of these tools is provided in BHT -SPECTOOL-IPB. Other unique items, such as AC Service parts, are described in applicable chapters of this manual.

## 1-5. TORQUES.

Standard torque values for various type fasteners will be found in BHT-ALL-SPM. Where applicable, special torques are identified within the text with the symbol . Torque values will be listed only in the installation. Also, when more than one torque of the same value is listed on an illustration, the torque symbol  will carry a number. The actual value will be listed with the legend notes next to the numbered torque symbol.

## 1-6. TERMINOLOGY.

### A. WARNINGS, CAUTIONS, AND NOTES.

Warnings, cautions, and notes are used throughout this manual to emphasize important and critical instructions as follows:

#### **WARNING**

**AN OPERATING PROCEDURE, PRACTICE, ETC., WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN PERSONAL INJURY OR LOSS OF LIFE.**

#### **CAUTION!**

**AN OPERATING PROCEDURE, PRACTICE, ETC., WHICH, IF NOT STRICTLY OBSERVED, COULD RESULT IN DAMAGE TO, OR DESTRUCTION OF, EQUIPMENT.**

#### **NOTE**

An operating procedure, condition, etc., which is essential to highlight.

## B. USE OF PROCEDURAL WORDS.

The concept of procedural word usage and intended meaning which is used throughout this manual is as follows:

'Shall' is used only when application of a procedure is mandatory.

'Should' is used only when application of a procedure is recommended.

'May' and 'need not' is used only when application of a procedure is optional.

'Will' is used only to indicate futurity, never to indicate a mandatory procedure.

### 1-7. WEAR LIMITS.



**WHILE PERFORMING MEASUREMENTS TO DETERMINE THE SERVICEABILITY OF A COMPONENT OR TO ESTABLISH A SPECIFIED DIMENSION, ONLY THE U.S. STANDARD VALUES SHALL BE USED.**

Throughout this manual, wear limits are provided to show the required fit between mating parts. It is not intended that all dimensions be checked as a prescribed maintenance procedure; however, parts showing evidence of wear or physical damage must be checked dimensionally.

Wear limits, fit, and tolerances are integrated into the inspection, repair, and assembly procedures. Unless otherwise specified, dimensions shall carry the following tolerances on decimals.

DECIMAL	TOLERANCE
.XXX	±0.010 inch
.XX	±0.03 inch
.X	±0.1 inch

### 1-8. STANDARD PRACTICES.

Standard maintenance practices and procedures not specifically described within this manual are contained in BHT-ALL-SPM.

## 1-9. REPLACEMENT PARTS AND ASSEMBLIES.

Replacement parts and assemblies required for proper maintenance are listed in the Illustrated Parts Catalog Supplement Manual. This catalog provides complete nomenclatures, part numbers, and ordering information.

### 1-10. ALPHABETICAL INDEX (ALL VOLUMES).

The Alphabetical Index, following Chapter 5, lists all primary headings with cross-indexing.

### 1-11. DESCRIPTION OF HELICOPTER.

The fuselage assembly consists of the forward fuselage and tailboom. The forward fuselage encloses the cabin and fuel cell, and provides pylon and engine supports.

The basic structure of the forward fuselage consists of a lower-curved honeycombed sandwich panel and an upper longitudinal aluminum beam. The core of the sandwich structure is aluminum alloy throughout, and is faced with aluminum alloy except in the fuel cell region, where fiberglass is used. The rotor, transmission and engine are supported by the upper longitudinal beam, which is connected to the lower structure by three fuselage bulkheads and a centerpost to form an integrated structure. The most forward and aft bulkheads act as carry-through structures for the landing gear crosstubes. The tailboom is a full monocoque structure with aluminum skin and aluminum substructure.

TH57 helicopters are powered by a Rolls Royce model 250-C20J turboshaft, internal combustion engine, consisting of six stage axial and single stage centrifugal flow compressor a single stage combustion chamber, two stage gas producer turbine, and two stage power turbine.

Refer to Rolls Royce Operation and Maintenance Manuals for detailed description of engines, engine components, and engine specifications.

Useable fuel capacity for TH-57B helicopters, Bureau numbers 161695 through 161701 is 76 gallons, The remainder of the fleet have useable fuel capacity of 91 gallons (344.5 liters), and has an improved crash resistant fuel cell. Refer to Chapter 28 for detail description of fuel system.

Major installations and assemblies are shown in Figure 1-1.

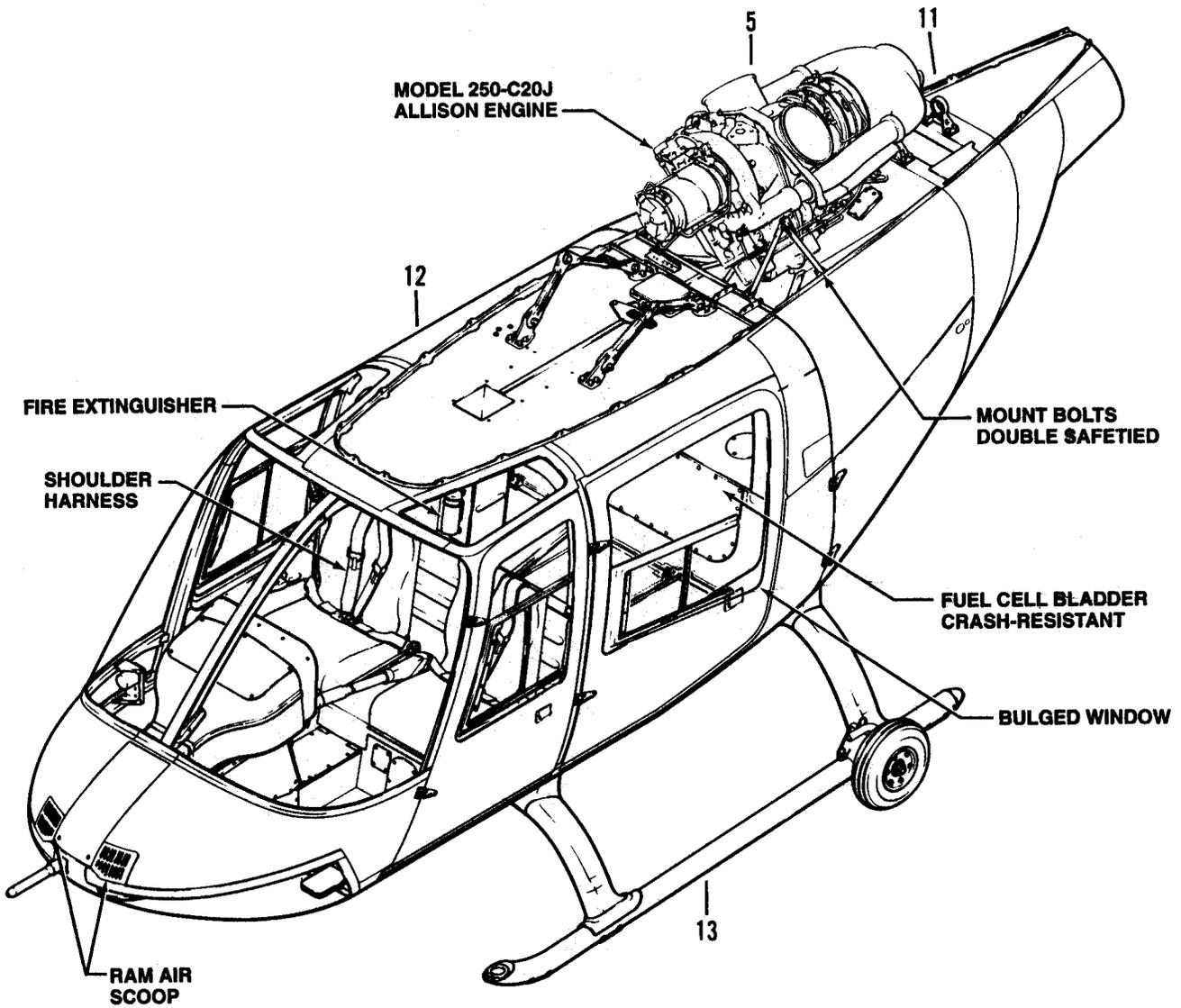
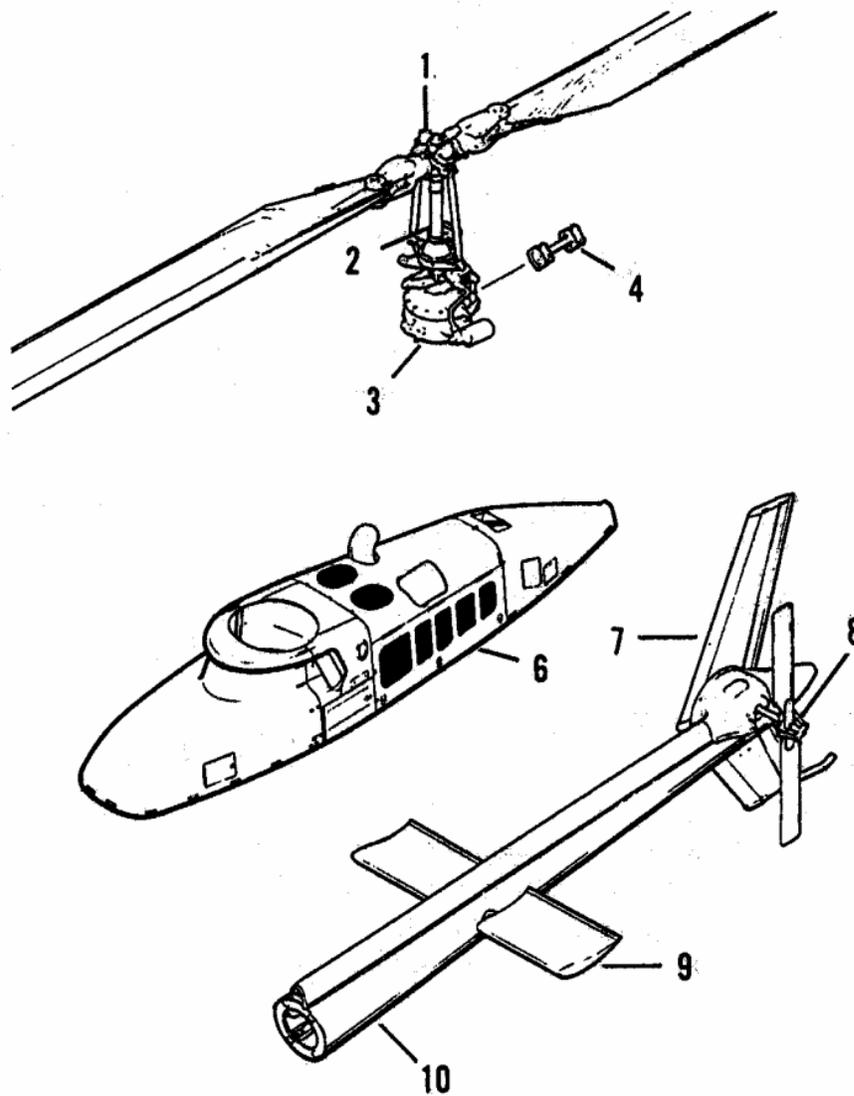


Figure 1-1. Major Installations and Assemblies



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**Figure 1-1 Major Installations and Assemblies (Cont'd.)**

## 1-12. APPLICATION CROSS REFERENCE

The following cross reference of serial numbers must be used to determine effectivity of information contained in this and the BHT-206A/B-SERIES-MM-2 Maintenance Manuals.

**TABLE 1-1  
TH-57 EFFECTIVITY DATA**

<b>Model</b>	<b>BUNO</b>	<b>MODEX</b>	<b>BHI S/N</b>	<b>MFG Date</b>
TH-57B	161695	146	3437	Oct-81
TH-57B	161696	140	3540	Nov-81
TH-57B	161697	141	3541	Nov-81
TH-57B	161698	142	3542	Nov-81
TH-57B	161699	143	3543	Nov-81
TH-57B	161700	144	3544	Dec-81
TH-57B	161701	145	3545	Dec-81
TH-57B	162803	147	3828	Sep-84
TH-57B	162804	148	3829	Sep-84
TH-57B	162805	149	3830	Sep-84
TH-57B	162806	150	3831	Sep-84
TH-57B	162807	151	3832	Sep-84
TH-57B	162808	152	3833	Sep-84
TH-57B	162809	153	3834	Sep-84
TH-57B	162810	154	3835	Oct-84
TH-57B	163312	155	3882	Jul-85
TH-57B	163313	156	3833	Aug-85
TH-57B	163314	157	3884	Aug-85
TH-57B	163315	158	3885	Aug-85
TH-57B	163316	159	3886	Sep-85
TH-57B	163317	160	3887	Sep-85
TH-57B	163318	161	3888	Sep-85
TH-57B	163319	162	3889	Sep-85
TH-57B	163320	163	3890	Sep-85
TH-57B	163321	164	3891	Sep-85
TH-57B	163322	165	3892	Sep-85

**Table 1-1 (Continued.)**

<b>Model</b>	<b>BUNO</b>	<b>MODEX</b>	<b>BHI S/N</b>	<b>MFG Date</b>
TH-57B	163323	166	3893	Sep-85
TH-57B	163324	167	3894	Oct-85
TH-57B	163325	168	3895	Oct-85
TH-57B	163326	169	3896	Oct-85
TH-57B	163327	170	3897	Oct-85
TH-57B	163328	171	3898	Oct-85
TH-57B	163329	172	3899	Oct-85
TH-57B	163330	173	3900	Oct-85
TH-57B	163331	174	3901	Oct-85
TH-57B	163332	175	3902	Nov-85
TH-57B	163333	176	3903	Nov-85
TH-57B	163334	177	3904	Nov-85
TH-57B	163335	178	3905	Nov-85
TH-57B	163336	179	3906	Nov-85
TH-57B	163337	180	3907	Nov-85
TH-57B	163338	181	3908	Nov-85
TH-57B	163339	182	3909	Nov-85
TH-57B	163340	183	3910	Dec-85
TH-57B	163341	184	3911	Dec-85
TH-57B	163342	185	3912	Dec-85
TH-57B	163343	186	3913	Dec-85
TH-57B	163344	187	3914	Dec-85
TH-57B	163345	188	3915	Dec-85
TH-57B	163346	189	3916	Dec-85
TH-57B	163347	190	3917	Dec-85
TH-57C	162013	049	3572	Dec-82
TH-57C	162014	050	3716	Dec-82
TH-57C	162015	051	3723	Dec-82
TH-57C	162016	052	3726	Dec-82
TH-57C	162017	053	3696	Jan-83
TH-57C	162018	054	3697	Jan-83
TH-57C	162019	055	3698	Jan-83
TH-57C	162020	056	3699	Feb-83
TH-57C	162021	057	3700	Feb-83
TH-57C	162022	058	3701	Feb-83
TH-57C	162023	059	3702	Feb-83
TH-57C	162024	060	3703	Feb-83
TH-57C	162025	061	3704	Feb-83
TH-57C	162026	062	3705	Feb-83
TH-57C	162027	063	3706	Feb-83
TH-57C	162028	064	3707	Feb-83

**Table 1-1 (Continued.)**

<b>Model</b>	<b>BUNO</b>	<b>MODEX</b>	<b>BHI S/N</b>	<b>MFG Date</b>
TH-57C	162029	065	3708	Feb-83
TH-57C	162030	066	3709	Feb-83
TH-57C	162031	067	3710	Feb-83
TH-57C	162032	068	3711	Feb-83
TH-57C	162033	069	3712	Mar-83
TH-57C	162034	070	3713	Mar-83
TH-57C	162035	071	3714	Mar-83
TH-57C	162036	072	3715	Mar-83
TH-57C	162037	073	3717	Mar-83
TH-57C	162038	074	3718	Mar-83
TH-57C	162039	075	3719	Mar-83
TH-57C	162040	076	3720	Mar-83
TH-57C	162041	077	3721	Mar-83
TH-57C	162042	078	3722	Mar-83
TH-57C	162043	079	3724	Apr-83
TH-57C	162044	080	3725	Apr-83
TH-57C	162045	081	3675	Apr-83
TH-57C	162046	082	3690	Apr-83
TH-57C	162047	083	3691	Apr-83
TH-57C	162048	084	3692	Apr-83
TH-57C	162049	085	3693	Apr-83
TH-57C	162050	086	3694	Apr-83
TH-57C	162051	087	3695	Apr-83
TH-57C	162052	088	3727	Apr-83
TH-57C	162053	089	3729	May-83
TH-57C	162054	090	3730	May-83
TH-57C	162055	091	3728	May-83
TH-57C	162056	092	3731	May-83
TH-57C	162057	093	3732	May-83
TH-57C	162058	094	3733	May-83
TH-57C	162059	095	3734	May-83
TH-57C	162060	096	3735	May-83
TH-57C	162061	097	3736	May-83
TH-57C	162062	098	3737	May-83
TH-57C	162063	099	3738	Jun-83
TH-57C	162064	100	3739	Jun-83
TH-57C	162065	101	3740	Jun-83
TH-57C	162066	102	3741	Jun-83
TH-57C	162067	103	3742	Jun-83
TH-57C	162666	104	3747	Jul-83
TH-57C	162667	105	3748	Jul-83

**Table 1-1 (Continued.)**

<b>Model</b>	<b>BUNO</b>	<b>MODEX</b>	<b>BHI S/N</b>	<b>MFG Date</b>
TH-57C	162668	106	3751	Sep-83
TH-57C	162669	107	3752	Sep-83
TH-57C	162670	108	3753	Sep-83
TH-57C	162671	109	3754	Sep-83
TH-57C	162672	110	3758	Sep-83
TH-57C	162673	111	3759	Sep-83
TH-57C	162674	112	3760	Sep-83
TH-57C	162675	113	3761	Oct-83
TH-57C	162676	114	3762	Oct-83
TH-57C	162677	115	3766	Oct-83
TH-57C	162678	116	3767	Oct-83
TH-57C	162679	117	3768	Oct-83
TH-57C	162680	118	3769	Oct-83
TH-57C	162681	119	3773	Dec-83
TH-57C	162682	120	3774	Nov-83
TH-57C	162683	121	3775	Nov-83
TH-57C	162684	122	3779	Dec-83
TH-57C	162685	123	3780	Dec-83
TH-57C	162686	124	3781	Dec-83
TH-57C	162811	125	3836	Oct-84
TH-57C	162812	126	3837	Nov-84
TH-57C	162813	127	3838	Dec-84
TH-57C	162814	128	3839	Dec-84
TH-57C	162815	129	3840	Dec-84
TH-57C	162816	130	3841	Dec-84
TH-57C	162817	131	3842	Dec-84
TH-57C	162818	132	3843	Jan-85
TH-57C	162819	133	3844	Jan-85
TH-57C	162820	134	3845	Feb-85
TH-57C	162821	135	3846	Feb-85
TH-57C	162822	136	3847	Feb-85
TH-57C	162823	137	3848	Feb-85

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