



AERONAUTICAL ACCESSORIES, INC.

P.O. BOX 3689

BRISTOL, TENNESSEE 37625-3689

TELEPHONE: 423-538-5151

800-251-7094

TELEFAX: 423-538-8469 E-MAIL: aero-access.com

INSTALLATION INSTRUCTIONS

RANGE EXTENDER®

P/N 206-282-100

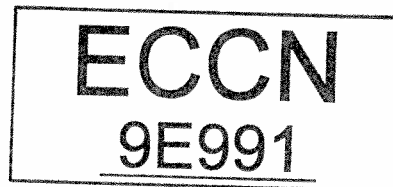
for

**BELL 206A and 206B
thru S/N 3566**

Report AA-88063

Revision J

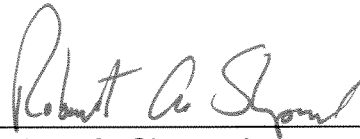
May 22, 2000



RANGE EXTENDER®
INSTALLATION INSTRUCTIONS

LOG OF REVISIONS

Rev.	Date	Description	Pages Affected
NR	10/03/85	Original Release	All
A to G	08/25/88 08/27/97	Various Technical revisions	All
H	04/06/99	Added the Log of Revisions Revised Parts List	2 6
I	08/18/99	Revised Step 2 Revised IPB Revised Parts List	2 5 8
J	05/22/00	Revised Washer callout	3,5,7,8

Approved by: 

Robert A. Shepard
FAA DERY-510363-CE
(Structures)

These instructions provide the information necessary to install the **RANGE EXTENDER®** Kit (206-282-100) on Bell 206A and 206B thru S/N 3566 model helicopters. These instructions are FAA approved under STC No. SH2889SW.

1. Remove cap and adapter assembly, (Bell P/N 416-474). Discard O-ring (MS29513-243).

NOTE

The fuel cell may move away from the side of the aircraft due to the weight of the fuel. If this should occur, defueling the tank will simplify the installation.

2. Install the **RANGE EXTENDER®** Assembly, (206-285-100) using the O-ring (MS29513-243), eight washers, (NAS1149D0416J) two bolts (AN4-5A and AN4-6A) and six screws, (MS27039-4-12) provided. Torque Fasteners 50-70 inch pounds.

NOTE

The two bolts (AN4-5A & AN4-6A) are positioned top center and first screw hole in the clockwise direction, respectively.

NOTE

For installation on Agusta Bell, substitute AN4-16 bolt for the AN4- bolts located top center and first bolt hole in the clockwise direction. Use AN4-12 bolts instead of MS27039-4-12 screws.

3. Revise aircraft equipment list.

NOTE

Use decal colors for best visibility on the aircraft.

4. Remove the fuel specification decal located above the fuel filler opening. Install the Fuel Specification Decal, (206-289-001) provided.
5. Install the Baggage Compartment Decal, (206-289-006) provided, on the inside surface of the baggage door.
6. Install the Cockpit Decal, (206-289-007) provided, on the instrument panel.
7. Install the No Step/No Handle Decal, (206-289-003) provided, on or near Range Extender.
8. Weight and Balance:

Net Weight Change: + 2.8 pounds
Station: 123.5
Lateral Arm: 28.0

9. Installation complete.

RANGE EXTENDER

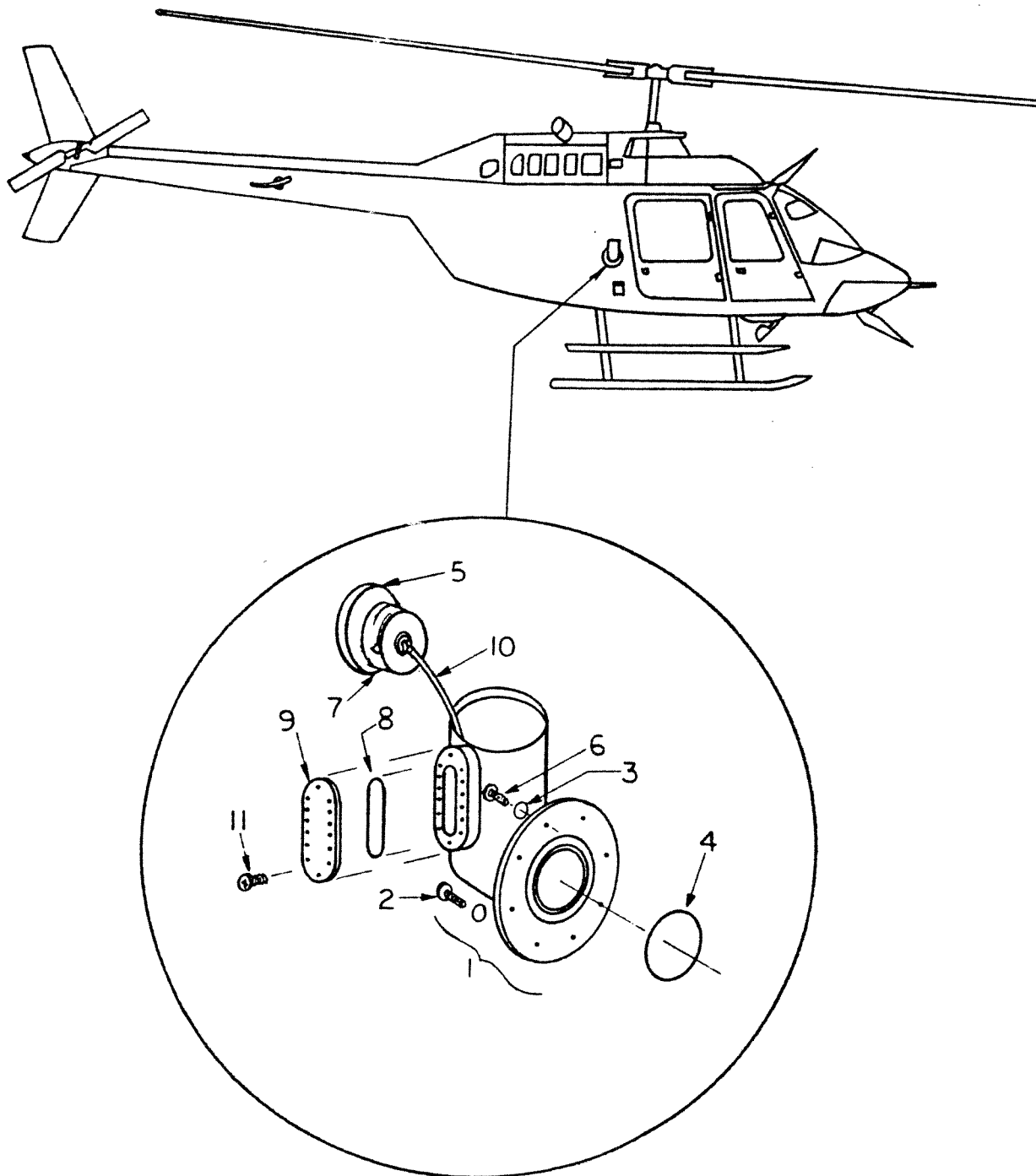


FIGURE 1.

P/N 206-282-100
ILLUSTRATED PARTS BREAKDOWN

Figure and Index Number	Part Number	Description	Quantity
1-1	206-285-100	RANGE EXTENDER® , ASSY	1
-2	MS27039-4-12	Screw	6
-3	NAS1149D0416J Alt.: AN960JD416L	Washer	8
-4	MS29513-243	O-Ring	1
-5	MS29513-232	O-Ring	1
-6	AN4-5A AN4-6A	Bolt Bolt	1 1
-7	206-280-001	Cap Assembly	1
-8	MS29513-041	O-Ring	1
-9	206-288-020	Sight Gage Cover	1
-10	206-288-006	Lanyard Assembly	1
-11	AN526-C832-R7	Screw	14
N/S	206-289-001	Fuel Specification Decal	1
N/S	206-289-003	NO STEP/NO HANDLE Decal	1
N/S	206-289-004	Fuel Quantity Decal	1
N/S	206-289-006	Baggage Compartment Decal	1
N/S	206-289-007	Cockpit Decal	1

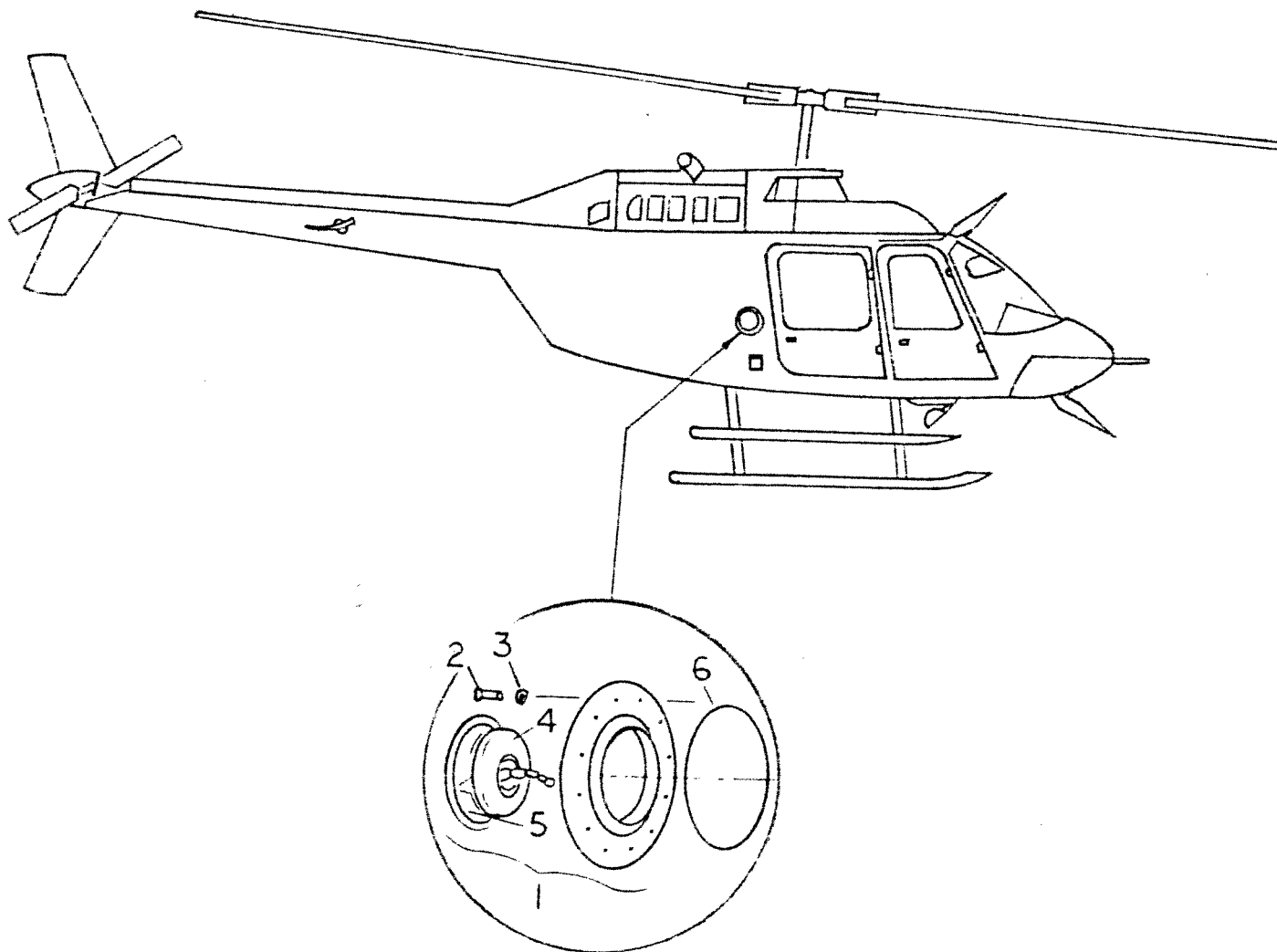


FIGURE 2
CAP AND ADAPTER ASSY.

CAP AND ADAPTER ASSEMBLY
ILLUSTRATED PARTS BREAKDOWN

Figure and Index Number	Part Number	Description	Quantity
2-1	416-474	Cap and Adapter Assembly	1
-2	MS27039-4-11	Screw	8
-3	NAS1149D0416J Alt.: AN960JD416L	Washer	8
-4	416-50	Cap Assembly	1
-5	MS29513-232	O-Ring	1
-6	MS29513-243	O-Ring	1

PARTS LIST
P/N 206-282-100

Quantity	Description	Part Number
___ 1	RANGE EXTENDER® Assembly	206-285-100
___ 1	O-Ring	MS29513-243
___ 6*	Screw	MS27039-4-12
___ 6**	Bolt	AN4-12
___ 1*	Bolt	AN4-5A
___ 1*	Bolt	AN4-6A
___ 2**	Bolt	AN4-16
___ 8	Washer	NAS1149D0416J Alt.: AN960JD416L
___ 1	Fuel Specification Decal	206-289-001
___ 1	NO STEP/NO HANDLE Decal	206-289-003
___ 1	Baggage Compartment Decal	206-289-006
___ 1	Cockpit Decal	206-289-007
___ 1	Fuel Specification Decal	206-289-008
___ 1	NO STEP/NO HANDLE Decal	206-289-010
___ 1	Fuel Quantity Decal (optional - white letters on clear)	206-289-034
___ 1	Flight Manual Supplement	AA-88021

* Omit in kits used on Agusta Bell models

** For use in kits used on Agusta Bell models only

Confirm Inventory Prior to Installation.

Packed by: _____ / /

AERONAUTICAL ACCESSORIES, INC.

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SH2889SW

This certificate, issued to Aeronautical Accessories, Inc.
P.O. Box 3689
Bristol, Tennessee 37625

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 21.29 of the Federal Aviation Regulations.

Original Product — Type Certificate Number: H2SW
Make: Bell Helicopter Textron, Inc.
Model: 206A, 206B

Description of Type Design Change: (A) Installation fuel filler neck according to Fuel Extender Installation Instructions dated October 9, 1978. (B) Manufacture of Range Extender or Range Extender-Quick Disconnect in accordance with Aeronautical Accessories, Inc. Drawing List Report No. AA-89006 (was Report KR-285), Revision A, dated June 22, 1989, and installed in accordance with Installation Instructions Report No. AA-88063, Revision A, dated August 25, 1988, or later FAA approved revisions.

Limitations and Conditions: FAA Approved Rotocraft Flight Manual Supplement (Report No. AA-88021), dated August 1, 1979, or later FAA approved revision, is a required part of this STC. This approval should not be extended to other rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will produce no adverse effect upon the airworthiness of that rotorcraft. This determination should include consideration of significant changes in weight distribution such as an increase in the fixed disposable weight in the fuselage.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: October 9, 1978

Date issued: June 15, 1979, August 16, 1979,
August 17, 1981, August 31, 198

Date of issuance: December 20, 1978

Date amended: December 2, 1983, July 5, 1996



By direction of the Administrator

Paul C. Sweeney
Paul C. Sweeney (Signature)
Associate Manager, ACE-117A
Atlanta Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

ENTE NAZIONALE per l'AVIAZIONE CIVILE

Struttura REGISTRO AERONAUTICO ITALIANO
Direzione Certificazione Materiale Aeronautico

Our ref.: 00/3021/MAE
18 October 2000

Aeronautical Accessories Inc.
PO Box 3689
Bristol, Tennessee 37625
USA

Subject: FAA STC SH2889SW Range Extender Fuel System - Italian Validation.
Reference:

Dear Sirs,
according to the existing Bilateral Agreement between USA and Italy, and following satisfactory accomplishment of ENAC evaluation, we wish to inform you that the FAA STC SH2889SW 20 December 1978 can be considered validated in Italy.
This application is limited to the models Bell 206B.
Please consider ENAC in the mailing list for continued airworthiness and forward the relevant information to:
ENAC/ECI Department
Via di Villa Ricotti, 42
00161 ROMA – ITALY.

Yours faithfully

 MAE Director
Carmine Cifaldi

CT/bs

c.c.: -FAA Atlanta ACO
- ENAC/DD.TT.
- ENAC/ECI



AIRWORTHINESS APPROVAL NOTE NO: 23814 Issue 12

APPLICANT: CAA Internal Purposes

AIRCRAFT TYPE: Bell 206 Series

REGISTRATION NO: Not Applicable

CONSTRUCTOR'S NO: Not Applicable

Validation of Aeronautical Accessories FAA Bell 206 Series STC Approvals

In accordance with BCAR B2-2 para 7.2.3 procedures, the following Aeronautical Accessories, Inc modifications are approved for use in the Transport Category (Passengers) when installed in accordance with the FAA STC on UK registered Bell/Agusta Bell 206 Series aircraft, as appropriate:

<u>Description</u>	<u>STC</u>	<u>Model</u>
Range Extender	SH2889SW	Bell 206A,B
Longrange Extender	SH1522SO	Bell 206L,L-1
Raingutter	SH1148SO	Bell 206A,B,L,L-1,L-3
Spacemaker	SH227WE	Bell 206A,B,L,L-1,L-3,L-4,407
Maintenance Step	SH1281SO	Bell 206A,B
Folding Maintenance Step	SH2243SO	Bell 206A,B,L,L-1,L-3,L-4,407
Step/Handle	SH1282SO	Bell 206A,B
Step/Handle	SH1366SO	Bell 206L,L-1,L-3,L-4,407
High Skid Gear	SH1392SO	Bell 206A,B
High Skid Gear	SH2804SO	Bell 206L,L-1,L-3,L-4
Low Skid Gear	SH2764SO	Bell 206A,B
Low Skid Gear	SH2941SO	Bell 206L,L-1,L-3,L-4
Flitestop	SH1322SO	Bell 206A,B,L,L-1,L-3,L-4
Baggage Floor Protector	SH1147SO	Bell 206A,B,L,L-1,L-3,L-4,407
Cyclic Cover	SH244WE	Bell 206A,B,L,L-1,L-3,L-4
Collective Safety Cover	SH2373SO	Bell 206A,B,L,L-1,L-3,L-4
Crew Wedge Window	SH1815SO	Bell 206A,B,L,L-1,L-3,L-4
Replacement Windows	SH1664SO	Bell 206A,B,L,L-1,L-3,L-4
Crew Shoulder Harness	SH2073SO	Bell 206A,B,L,L-1,L-3,L-4
Door Openers	SH1990SO	Bell 206A,B,L,L-1,L-3,L-4,407
VRS	SH7882SW	Bell 206A,B
Cabin Floor Protector	SH289SO	Bell 206A,B,L,L-1,L-3,L-4,407
Crew Vertical Slide Windows	SH2139SO	Bell 206A,B,L,L-1,L-3,L-4,L-4 (Modified)
Replacement Drive Train Seals	SR00539AT	Bell 206A,B,L,L-1,L-3,L-4
Tail Rotor Pedal Lockout	SR00513AT	Bell 206A,B,L,L-1,L-3,L-4
Replacement Interior Trim	SID298SO	Bell 206A,B,L,L-1,L-3
Replacement Door Locks and Latching	SR00095AT	Bell 206A,B,L,L-1,L-3,L-4
Fuel Cap		

APPLICANT
AIRCRAFT PROJECTS DEPARTMENT
FLIGHT MANUALS SECTION
POWERPLANT DEPARTMENT
REGIONAL MANAGER:-

<u>Description</u>	<u>STC</u>	<u>Model (Cont'd)</u>
Lightweight Replacement Nitrogen Reservoir Assembly	SR00175AT	Bell 206A, B, L, L-1, L-3, L-4
Electrical Inflation Valve Retrofit Kit	SR00822AT	Bell 206A, B, L, L-1, L-3
Air Deflector	SR01556AT	Bell 407
Air Deflector	SR01582AT	Bell 206A, B, L, L-1, L-3, L-4
Dual Video Camera System and Monitor	SH2292SO	Bell 206A, B, L, L-1, L-3
Hinged Circuit Breaker Panel	SR00347AT	Bell 206A, B, L, L-1, L-3, L-4

Issue 2 has been raised to correct minor editorial errors.

Issue 3 has been raised to include the Bell 206L4, where applicable.

Issue 4 has been raised to include the Crow Vertical Slide Windows.

Issue 5 has been raised to include the Replacement Drive Train Seals.

Issue 6 has been raised to include the Tail Rotor Pedal Lockout and Bell 206 L-4 applicability to High and Low Skid Gear.

Issue 7 has been raised to include the Replacement Interior Trim

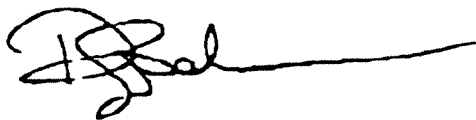
Issue 8 has been raised to include Replacement Door Locks and Locking Fuel Cap

Issue 9 has been raised to include replacement Nitrogen Reservoir and Electrical Inflation Valves for the Bell Emergency Flotation Equipment.

Issue 10 has been raised to include installation of Air Deflection on crew and passenger door windows.

Issue 11 has been raised to include STCs SK01582AT, SH2292SO and SR00347AT.

Issue 12 has been raised to include the Bell 407, where applicable.



P Sparkes

For the Civil Aviation Authority

Date 8 October 1999

RANGE EXTENDER

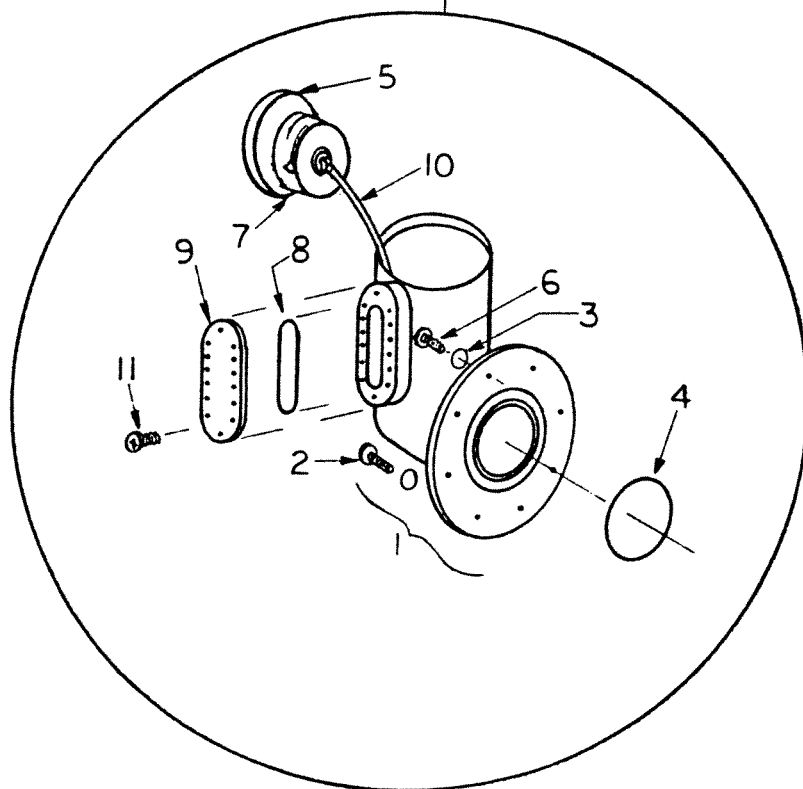
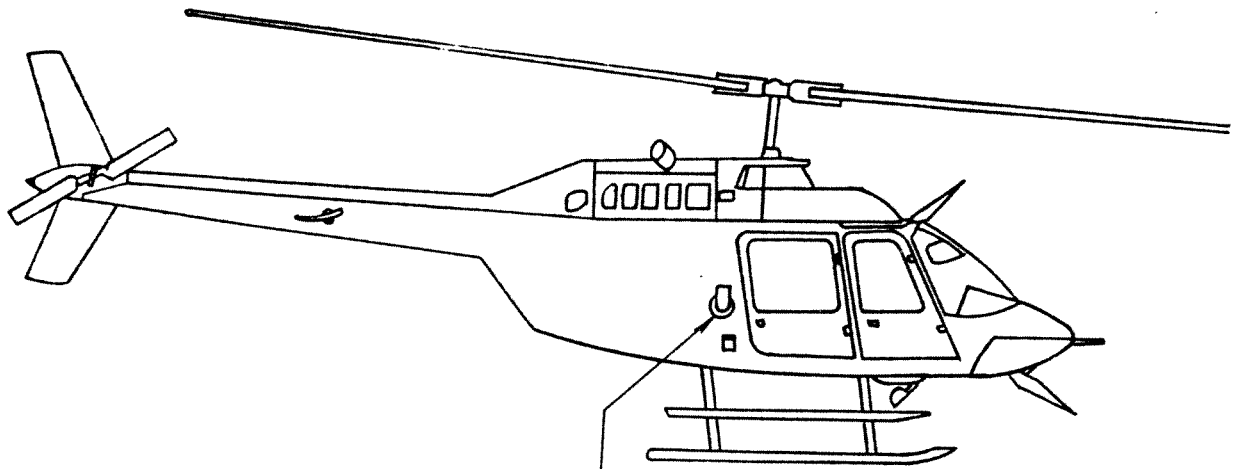


FIGURE I.

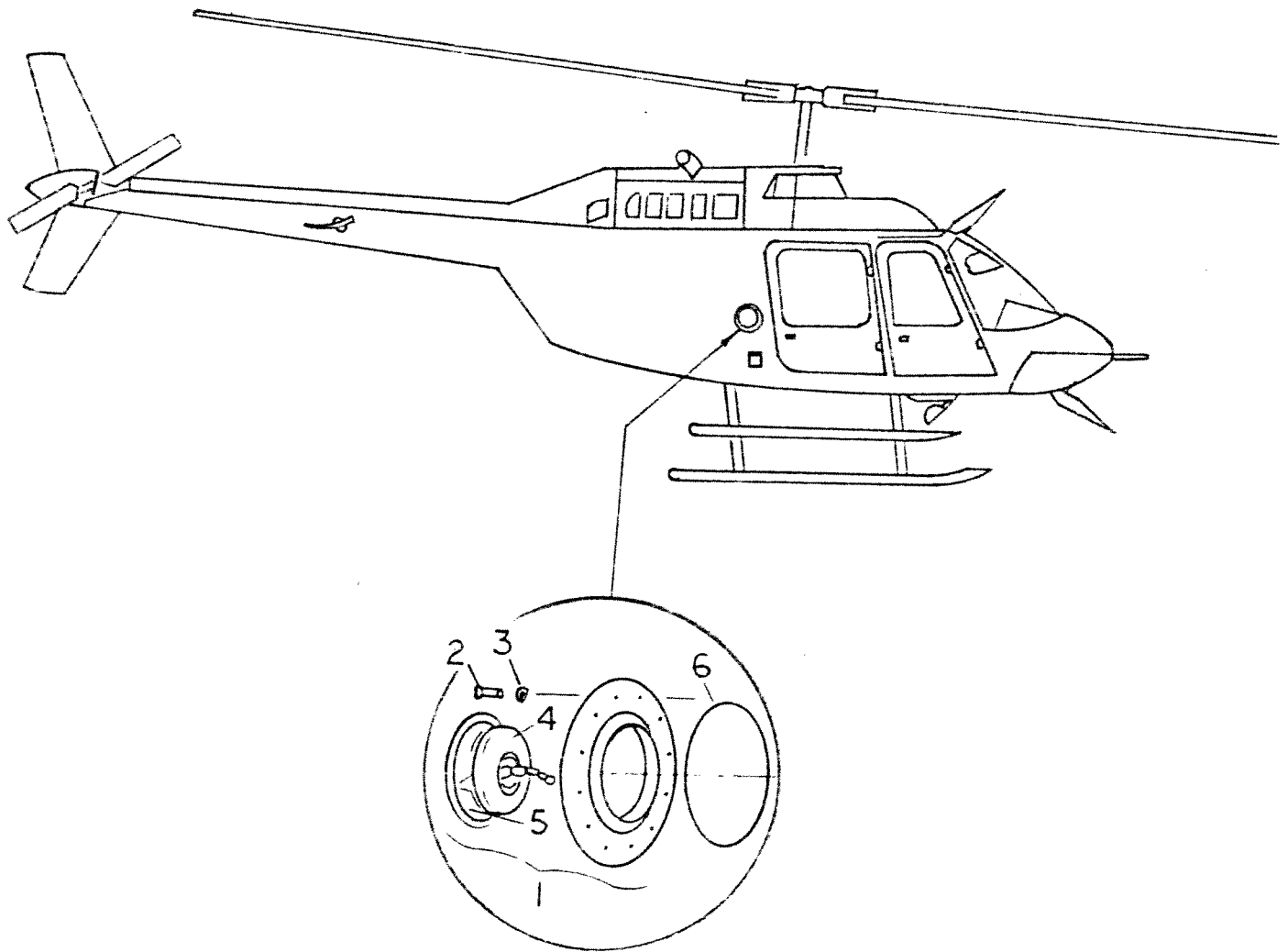


FIGURE 2
CAP AND ADAPTER ASSY.