

R44-series Fire Extinguisher Relocation Kit Instructions

Kit provides instruction for relocating factory-installed fire extinguisher bracket, or removing pocket & strap, from C033-1 lower console. Helicopters equipped with pocket & strap installation for B381-1 (vendor p/n RT-A400) extinguisher, order complete KI-281-2 kit. If relocating a serviceable B381-3 bracket, order listed hardware as required. Helicopters equipped with pocket & strap for B381-2 (vendor p/n RT-A600) extinguisher must locally source bracket (vendor p/n BKT-600) and may order listed hardware for inboard location only, as required. To avoid interference with outboard fire extinguisher installation, intercom floor switch may be relocated using KI-289-2 (sold separately).

NOTE

B381-2 (vendor p/n RT-A600) fire extinguisher is no longer available from RHC.

NOTE

Visit www.robinsonheli.com to verify kit instructions are current revision. Review instructions before installation; contact RHC Technical Support with questions. Verify kit contents match list; contact RHC Customer Service if parts are missing or damaged.

ITEM	PART NUMBER	KIT CONTENTS	QTY
1	KI-281-2Instr.	Kit Instructions	1
2	B381-3	Bracket (for RT-A400 extinguisher)	1
3	C130-54	Spacer	2
4	G220-1	Retainer	2
5	2590+	Hole Plug (Note: "+" in part number indicates 5-qty pack)	2
6	AN526C832R10	Screw (for outboard installation only)	2
7	AN970-3+	Washer (for inboard installation only; Note: "+" in part number indicates 10-qty pack)	1
8	MS21042L08	Nut	2
9	MS27039C0810	Screw (for inboard installation only)	2

Consumables

Refer to R44 Maintenance Manual (MM) § 23-70 for approved materials list.

- B270-8 Adhesive

Kit Instructions

1. Turn BATTERY switch OFF. Disconnect negative (ground) cable from battery per MM § 37-10. If not previously accomplished, remove fire extinguisher from strap and pocket assembly, or metal bracket.

Kit Instructions (continued)

2. If not previously accomplished, open upper console and remove extinguisher installation from C033-1 lower console as required per instructions below.

A. Metal bracket removal. Refer to R44 Illustrated Parts Catalog (IPC) Figure 25-41:

- i. Remove hardware securing B381-3 bracket to lower console. Retain bracket, retainers, and spacers; with heads outboard, reinstall screws, washers, and nuts (shorter screws & smaller washers may be substituted).

B. Strap and pocket removal. Refer to IPC Figure 25-41:

- i. If installed, remove hardware securing HID landing light left ballast (ref. IPC Figure 33-11) to console LH panel and secure ballast away from workspace.
- ii. Drill out rivets securing strap assembly and pocket assembly to console. Remove & discard strap and pocket.
- iii. Drill newly vacated rivet holes using 3/16 inch diameter drill. Deburr holes and clean up debris. At installer's discretion, alodine and/or prime/paint hole(s) edges as described in NOTE below.

NOTE

After trimming or filing aluminum, finish edges as follows: Deburr trimmed edges with 220-grit or finer wet-or-dry aluminum oxide abrasive paper. Solvent-clean deburred edge and apply Bonderite M-CR 1132, or Bonderite M-CR 1201 Aero in accordance with manufacturer's instructions. Apply epoxy primer to dry edge. Touch up with helicopter paint color, where applicable, is optional.

- iv. Install 2590 hole plugs in holes.
- v. If removed, install hardware securing HID landing light left ballast to left console. Verify security.

3. Close upper console and secure.

4. Install B381-3 bracket per Section A for outboard location adjacent LH door jamb, or Section B for inboard location forward of circuit breaker panel; for B381-2 (vendor p/n RT-A600) extinguisher, install bracket (vendor p/n BKT-600) in inboard location only. Helicopters with floor mounted intercom switch may use inboard location to avoid interference when using floor switch. Alternately, intercom floor switch may be relocated using KI-289-2 (sold separately).

NOTE

Brackets are not installed using bracket's circular holes; bracket must be installed as shown in Figures 1 and 2.

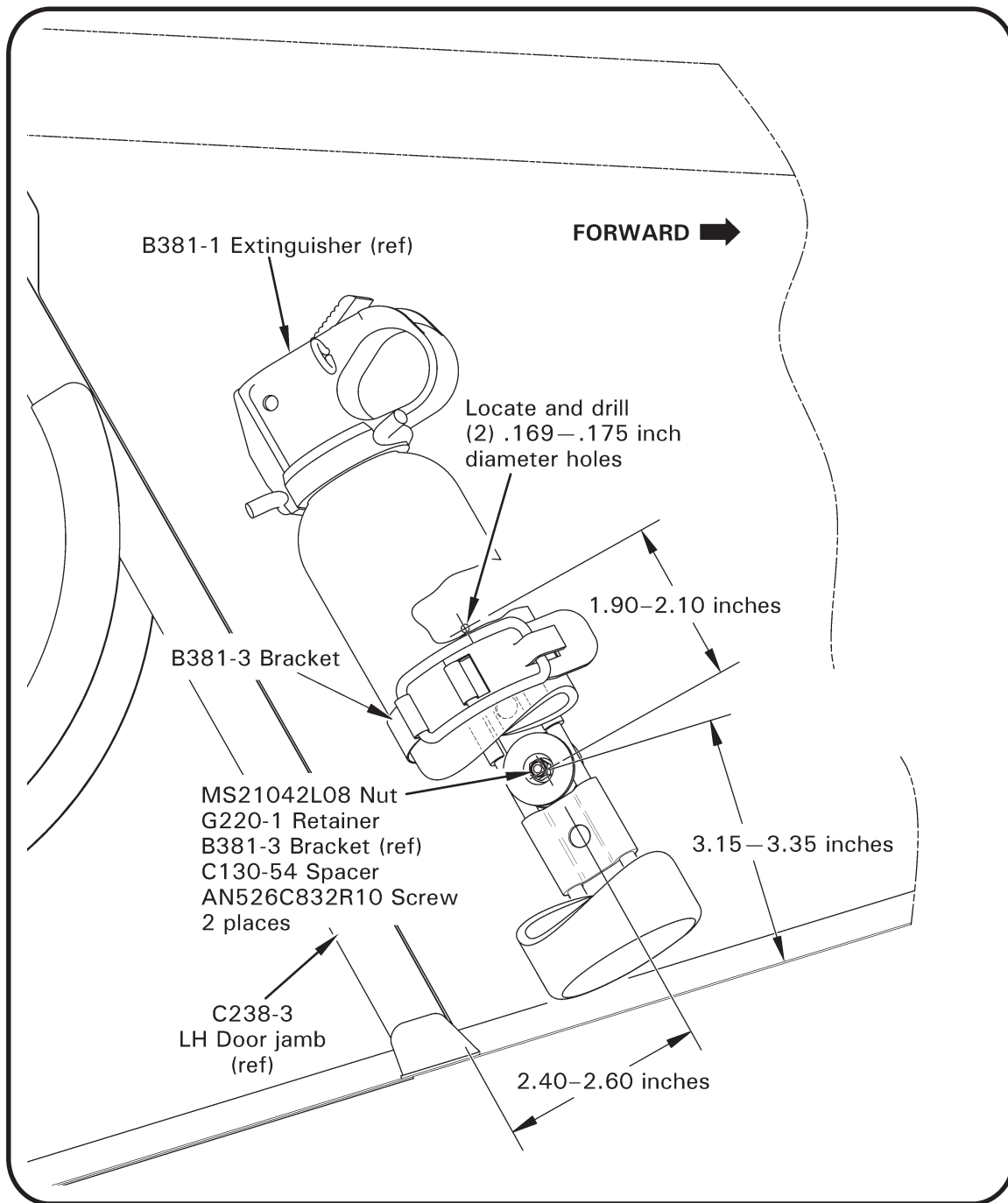


FIGURE 1 Outboard location
(view looking outboard)

Kit Instructions (continued)**A. Outboard location.** Refer to Figure 1.**WARNING**

Review appropriate Safety Data Sheet (SDS) when working in proximity to hazardous materials. Specific recommendations for use of personal protective equipment are located in the SDS.

- i. Refer to MM § 15-320. Remove carpet from cabin chin as required to locate and drill (2) .169 –.175 inch diameter holes as shown. Deburr holes and clean up debris. Install carpet using B270-8 adhesive.
- ii. Using a pick or similar tool, pierce carpet at newly drilled holes. Install B381-3 bracket using (2) AN526C832R10 screws, (2) C130-54 spacers, (2) G220-1 retainers, and (2) MS21042L08 nuts.

B. Inboard location. Refer to Figure 2.

- i. Refer to MM § 15-320. Gain access to aft side of C352-3 LH panel by removing circuit breaker panel. Remove carpet from panel as required. Using drill stop, locate and drill (2) .169 –.175 inch diameter holes as shown. Deburr holes and clean up debris. Install carpet using B270-8 adhesive.
 - ii. Using a pick or similar tool, pierce carpet at newly drilled holes. Install B381-3 or BKT-600 bracket as shown using (2) AN526C832R10 screws, (2) G220-1 retainers, (2) C130-54 spacers, (2) AN970-3 washers, and (2) MS21042L08 nuts.
 - iii. Verify circuit breaker enclosure is free of debris. Install circuit breaker panel.
5. Perform inspection per MM § 15.620 A, as required. Install extinguisher and latch bracket.
 6. Connect negative (ground) cable to battery per MM § 37-10.

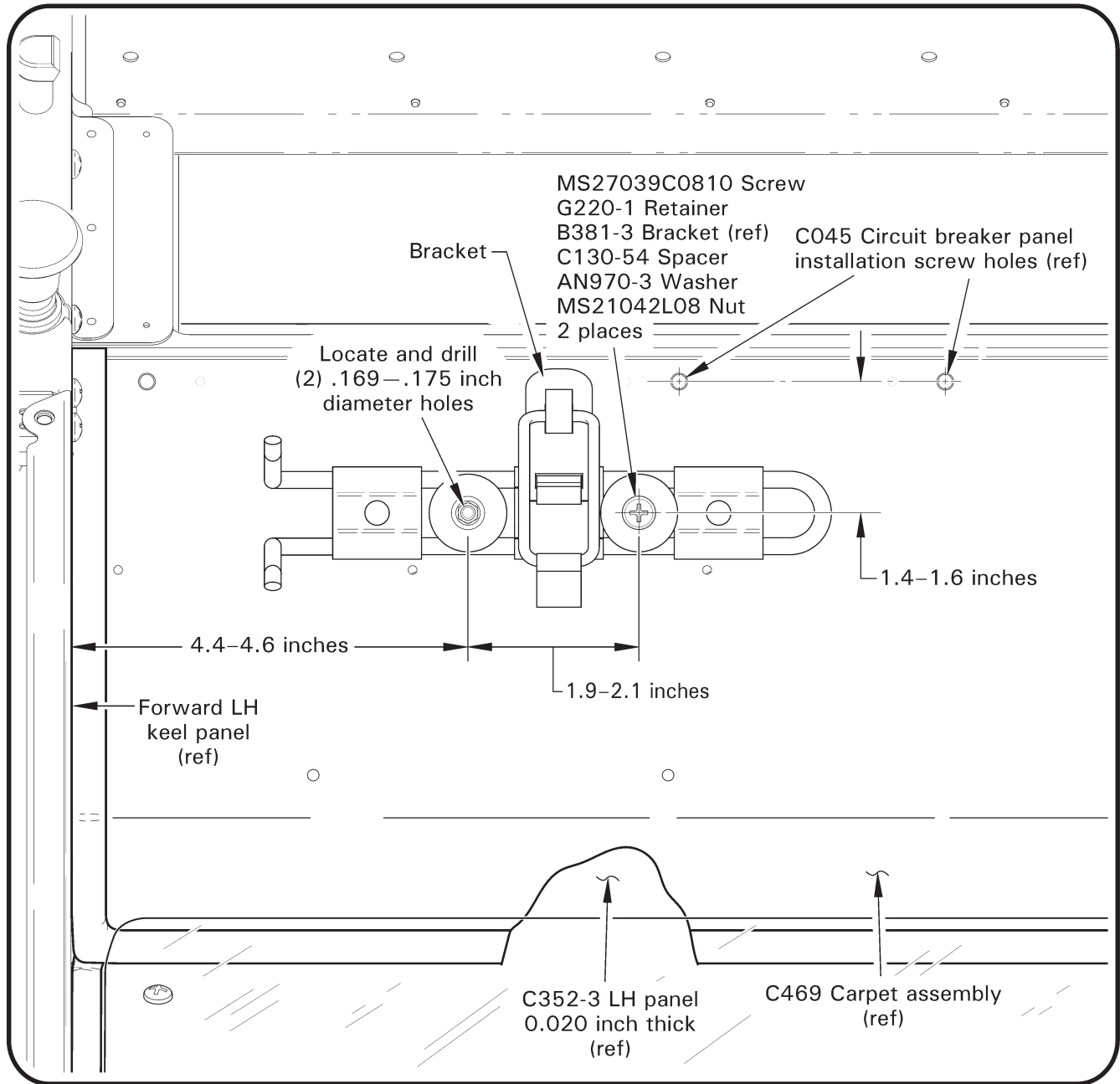


FIGURE 2 Inboard location
 (B381-3 bracket shown; view looking aft; circuit breaker panel removed for clarity)

Kit Instructions (continued)

7. Revise helicopter's Weight and Balance Record in Pilot's Operating Handbook (POH) Section 6 to reflect this installation by incorporating the following data, as applicable. Refer to SB-107B for removal data of fire extinguisher and metal bracket.

Remove:

Forward (LH console) pocket & strap:

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
B219 Pocket & Strap Assemblies	-0.10 lb	8.95 in.	-0.90 in-lb	-5.25 in.	0.53 in-lb

Install:

(select appropriate bracket & extinguisher location)

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
Outboard Inst'l, B381-1 (RT-A400) Fire Extinguisher	1.44 lb	23.50 in.	33.84 in-lb	-20.00 in.	-28.80 in-lb

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
Inboard Inst'l, B381-1 (RT-A400) Fire Extinguisher	1.44 lb	34.11 in.	49.13 in-lb	-9.06 in.	-13.05 in-lb

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
Inboard Inst'l, B381-2 (RT-A600) Fire Extinguisher	1.89 lb	34.10 in.	64.453 in-lb	-6.67 in.	-12.61 in-lb

8. Make appropriate maintenance record entries.