

**R22-series Fire Extinguisher Relocation Kit Instructions**

*Kit provides instruction for relocating factory-installed fire extinguisher bracket, or removing pocket & strap, from A033-1 lower console. Helicopters equipped with pocket & strap installation for B381-1 (vendor p/n RT-A400) extinguisher, order complete KI-281-1 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-289-1 (sold separately).*

**NOTE**

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

**NOTE**

Visit [www.robinsonheli.com](http://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-281-1Instr.	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 R22 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 § 33-10. 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 A033-1 lower console as required per instructions below.

**A. Metal bracket removal.** Refer to R22 Illustrated Parts Catalog (IPC) Figure 25-15:

- 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 25-17:

- i. If installed, remove hardware securing HID landing light left ballast (ref. IPC Figure 33-9) 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.

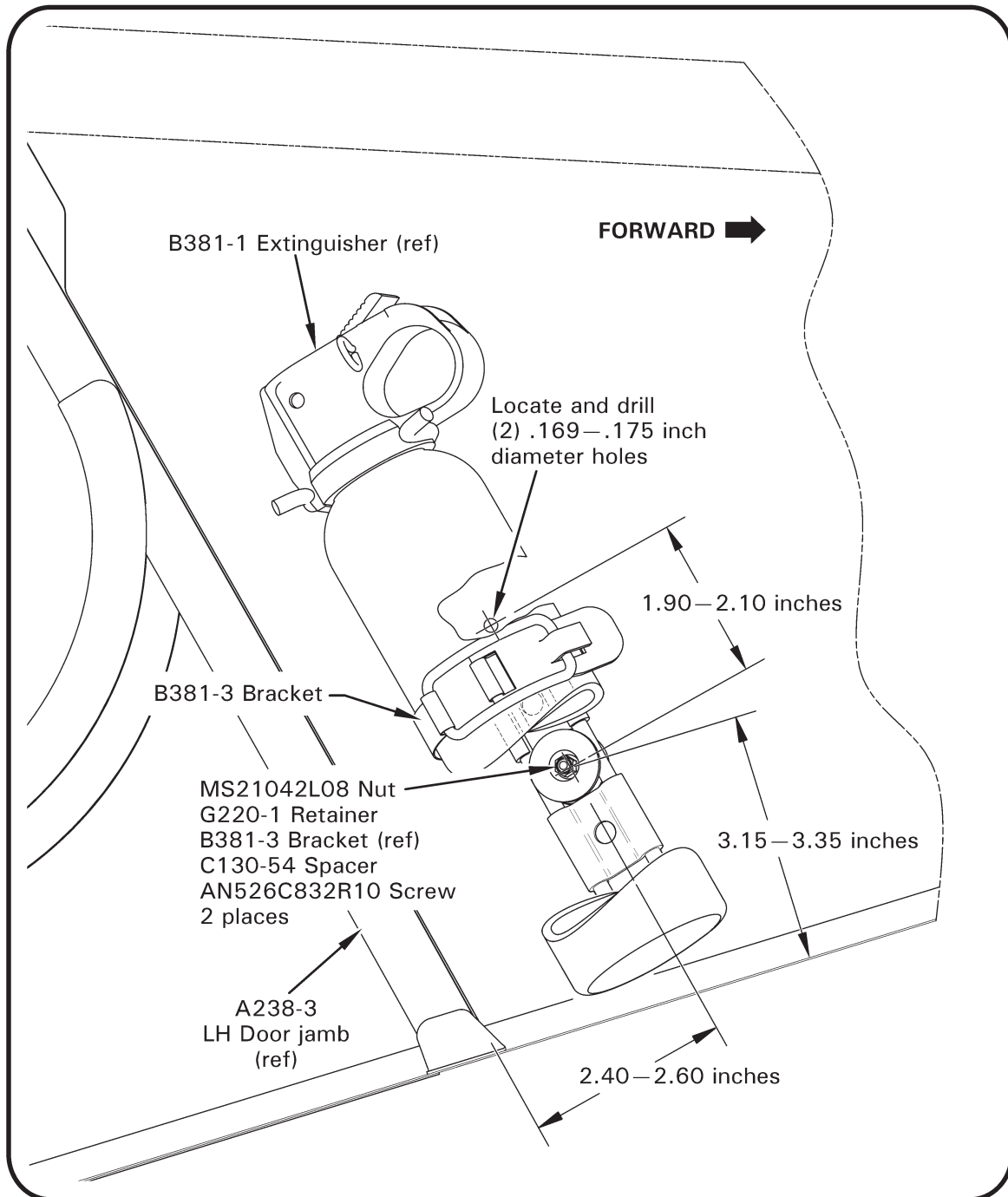
**NOTE**

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-289-1 (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)

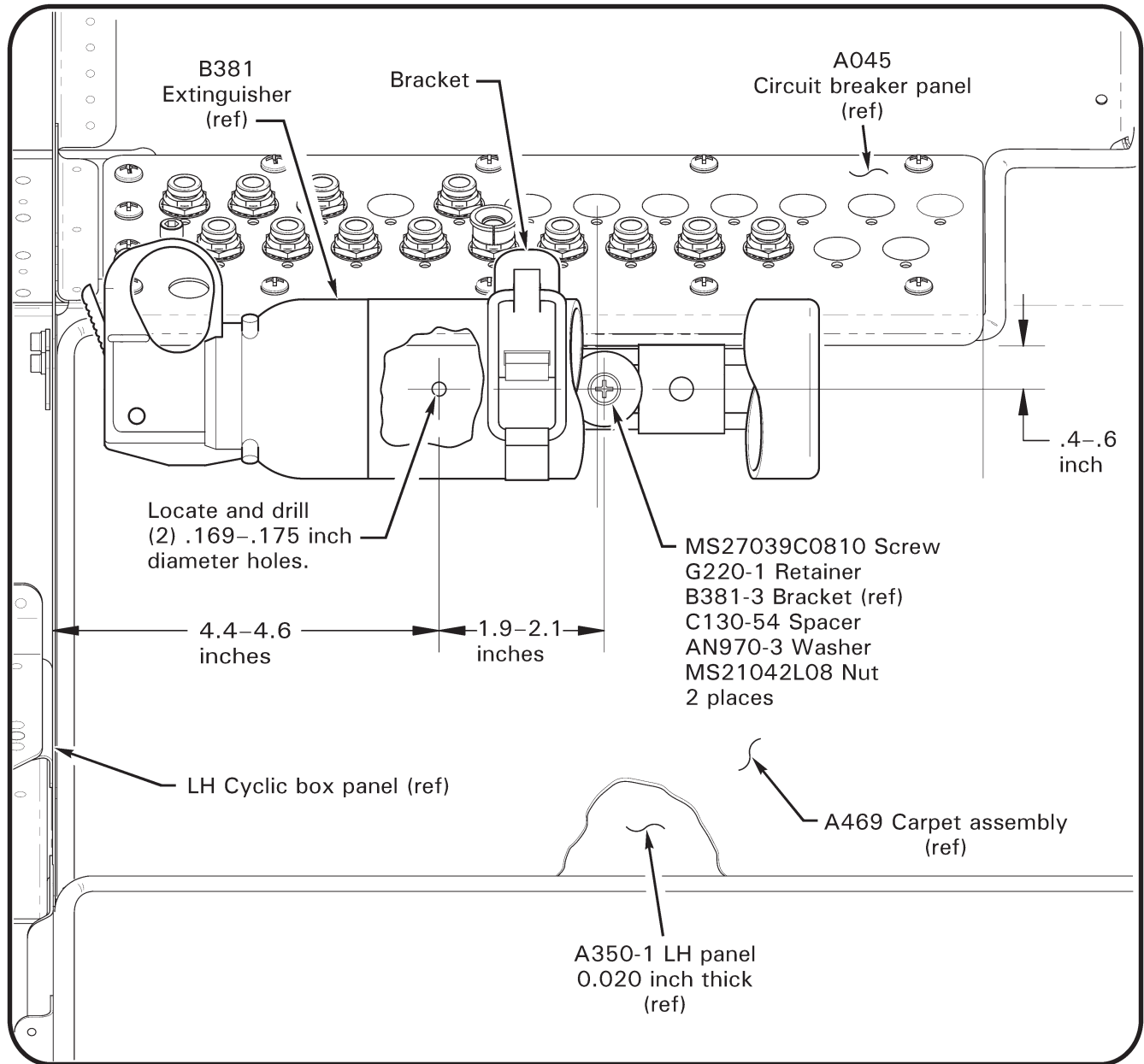
**Kit Instructions (continued)****A. Outboard location.** Refer to Figure 1.**WARNING**

**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 § 15-30. 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 IPC Figures 25-9 & 25-13, and MM § 15-30. Gain access to aft side of A350-1 LH panel by removing A475-2 cross tube cover and A748-6 cover, if installed. 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. Install A475-2 cross tube cover. Install A748-6 cover, if removed.
5. Perform inspection per MM § 15-62 A, as required. Install extinguisher and latch bracket.
  6. Connect negative (ground) cable from battery per MM § 33-10.



**FIGURE 2 Inboard location**  
(B381-3 bracket shown; view looking aft)

**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. Refer to SB-118B for removal data concerning 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	39.49 in.	-3.95 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	51.40 in.	74.02 in-lb	-17.00 in.	-24.48 in-lb

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
Inboard Inst'l, B381-1 (RT-A400) Fire Extinguisher	1.44 lb	63.15 in.	90.94 in-lb	-5.86 in.	-8.44 in-lb

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
Inboard Inst'l, B381-2 (RT-A600) Fire Extinguisher	1.89 lb	63.13 in.	119.32 in-lb	-6.56 in.	-12.40 in-lb

8. Make appropriate maintenance record entries.