

**R22-series Intercom Floor Switch Relocation Kit Instructions**

*Kit converts intercom floor switch to push button switch and relocates to outboard side of co-pilot seat. Eligible for installation on R22 S/N 4673 & prior.*

**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-289-1Instr.	Kit Instructions . . . . .	1
2	B161-2.2FT	Spirap, 1/8 inch diameter (2 foot length) . . . . .	1
3	B263-13	Housing (2-socket) . . . . .	1
4	C049-10	Harness Assembly (supplied with MS35489-4 grommet & B263-12 housing) .	1
5	KI-289-1A	Harness assembly . . . . . Includes: [1] B158-2 Heat shrink, marked "KI-289" [2] B261-2 Butt splice [2] B263-2 Socket [1] B274-22 Wire, 22 gage, 60-inch length (marked "-283") [1] B274-22 Wire, 22 gage, 60-inch length (marked "-284")	1
6	MS3367-4-9+	Ty-Rap (Note: "+" in contents part number indicates 20-qty pack) . . . . .	1
7	MS3367-5-0+	Ty-Rap (Note: "+" in contents part number indicates 10-qty pack) . . . . .	1
8	TL-350	Tie . . . . .	3

**Consumables**

Refer to R22 Maintenance Manual (MM) § 23-70 for approved materials list.

- B270-8 Adhesive

**Special Tools**

- Wire stripping and crimping tools

**Kit Instructions**

1. Turn BATTERY switch OFF. Disconnect battery per MM § 33-10.
2. Refer to MM Figure 2-3A. Remove items 4B thru 4D, and 5C. Remove left seat back per MM § 15-22.
3. Refer to Figure 1 and R22 Illustrated Parts Catalog (IPC) Figure 25-9. Remove carpet per MM § 15-30 and gain access to A287-1 LH panel. If required, drill (3) 0.17-0.27 inch diameter holes, adjacent to existing holes as shown.

**Kit Instructions (continued)**

4. Refer to Figure 2. Layout dimensions on outboard side panel of A291-3 LH outboard support as shown. Verify adequate clearance on reverse side. Using a drill stop, drill 0.20–0.30 inch diameter hole.
5. Refer to Figure 3. Lay out dimensions on B441-1 brace as shown. Verify adequate clearance on reverse side. Using a drill stop, drill 0.318–0.325 inch diameter hole.
6. Deburr all newly-drilled holes and clean up debris. At installer's discretion, alodine and/or prime/paint hole(s) 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.

7. Refer to MM §15-30. Carefully remove A469 LH floor carpet assembly.

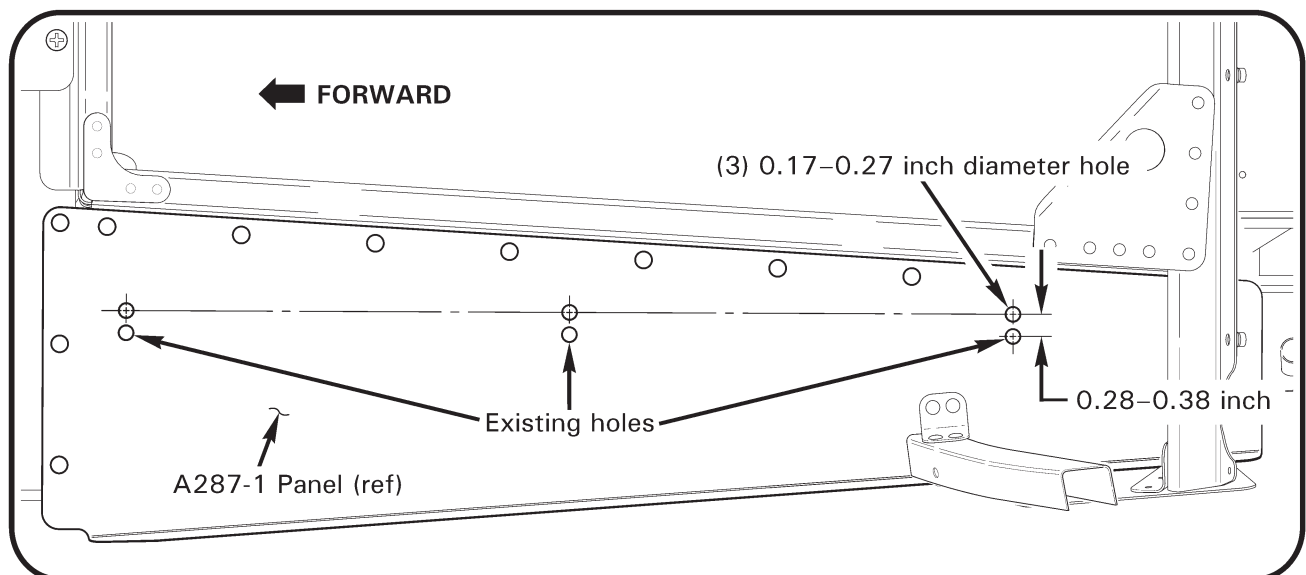
**NOTE**

Parenthetic dash numbers, such as (-283), indicate number marked on wiring insulation (if single conductor), or jacket (if multi-conductor and/or shielded).

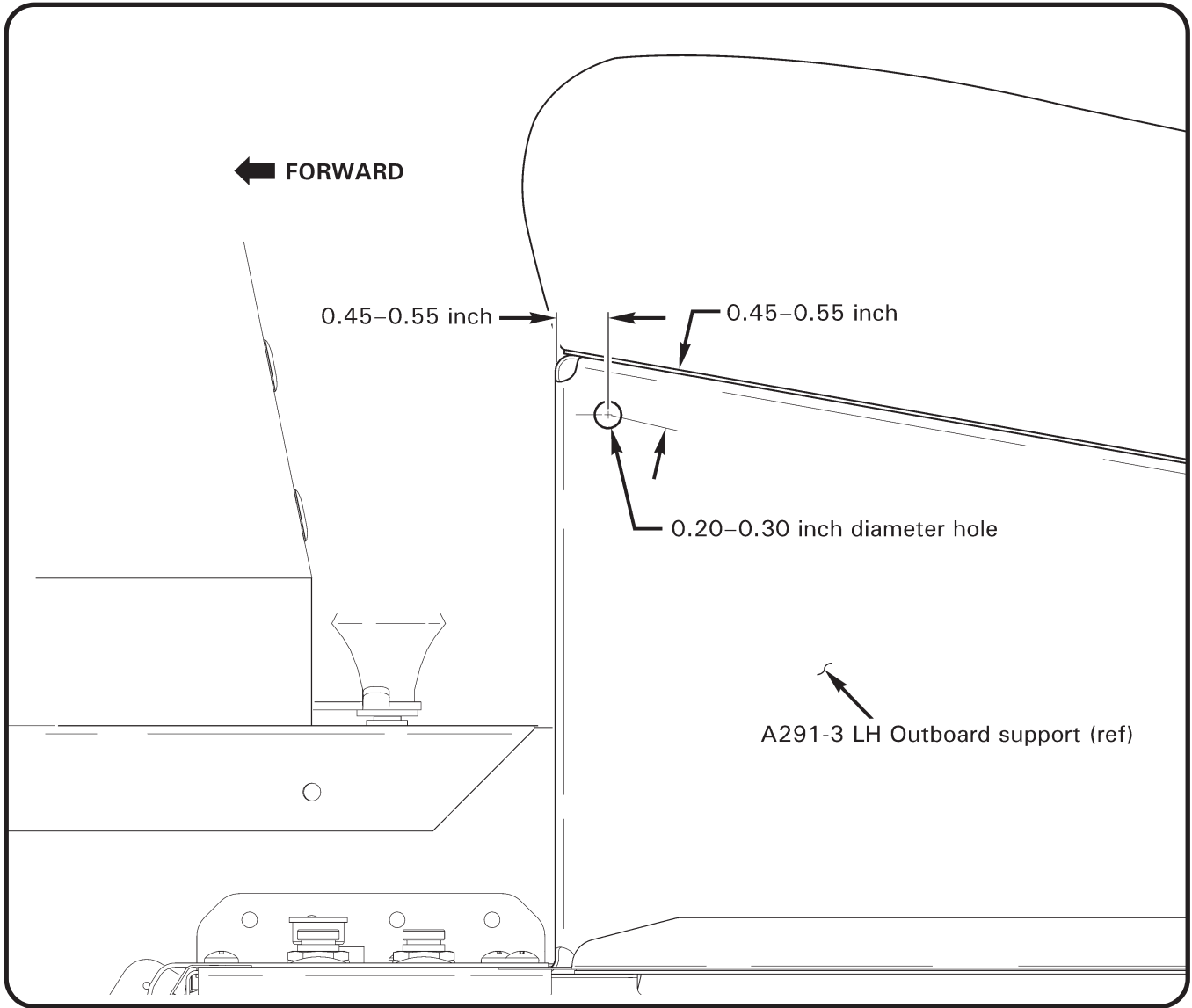
8. Refer to IPC Figure 97-9. Remove installation hardware securing A797-1 cover and B565-1 switch. Retain hardware and cover. Trim wires (-283) & (-284), leaving ring terminals on switch; remove and discard switch.
9. Strip wires (-283) & (-284). Splice wire (-283) & (-284) to KI-289-1A harness assembly (open ends of B261-2 butt splice); verify security.
10. Refer to Figure 4. Route harness assembly wires (-283) & (-284) along airframe harness as shown; wrap wires with B161-2 spirap as required. Carefully remove ty-raps from airframe harness and secure wires (-283) & (-284) to airframe harness using appropriately sized ty-rap. Cinch ty-rap until snug without over tightening, and trim tip flush with head.
11. Insert wires (-283) & (-284) sockets into B263-13 housing (refer to figure 4). Verify security of socket in housing.
12. Refer to IPC Figure 97-21. Route C049-10 harness through newly drilled hole on B441-1 brace and position MS35489-4 grommet (supplied with harness). Insert harness assembly pins into B263-12 housing (supplied with harness). Verify security of pins in housing.
13. Refer to Figure 4. Connect C049-10 harness and B263-13 housing. Secure using (3) TL-350 ties.
14. Refer to IPC Figure 97-21. Remove cap and dress nut from switch. Install switch assembly through newly drilled hole on A291-3 support. Secure switch assembly using dress nut and cap.

**Kit Instructions (continued)**

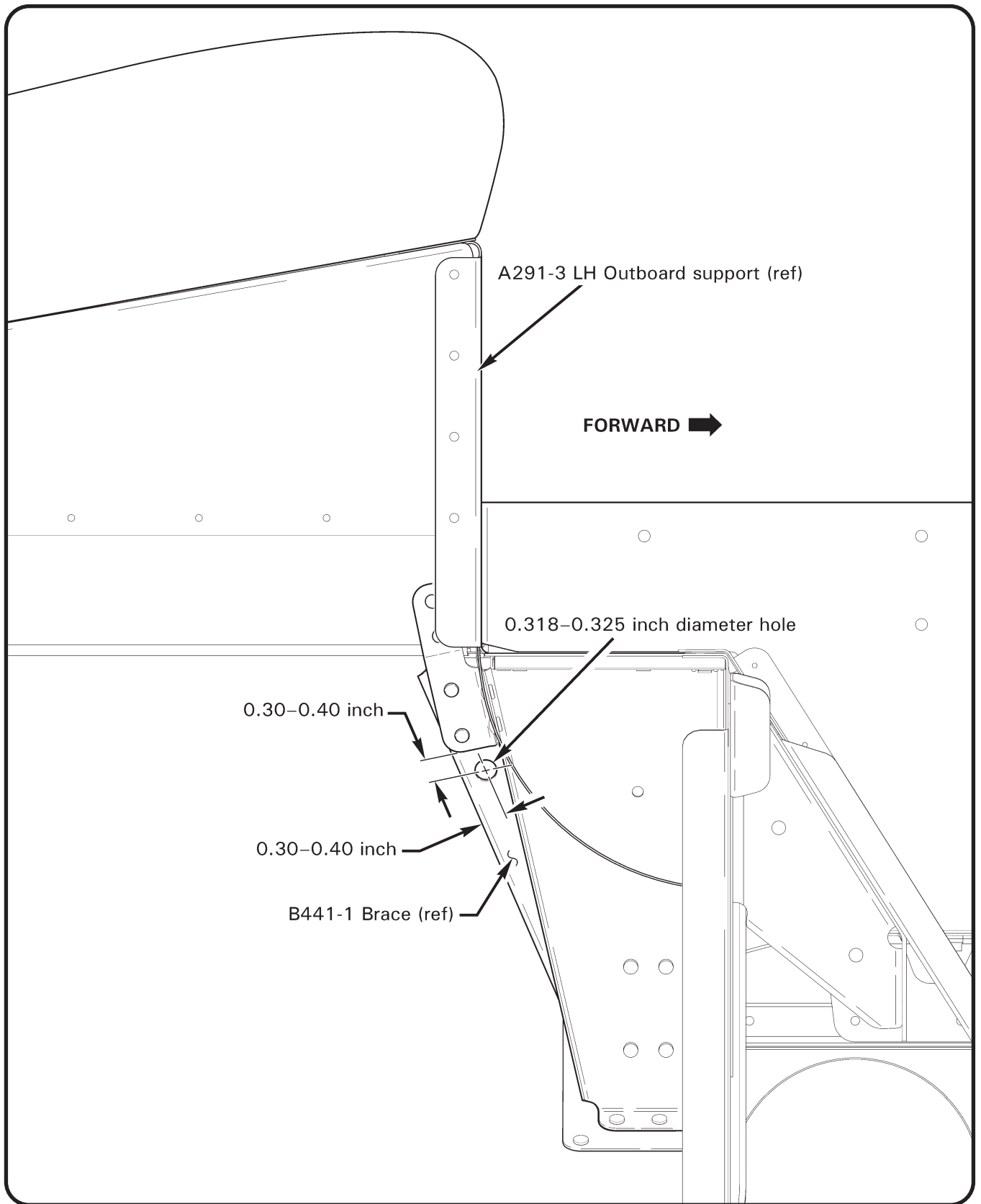
15. Install A797-1 cover on floor panel using retained hardware.
16. Install carpet on A287-1 LH panel and LH floor per MM §15-30.
17. Install left seat back per MM § 15-22. Install access panels and inspection panels, as required.
18. Verify proper operation of co-pilot intercom switch.
19. Make appropriate maintenance record entries. Weight and Balance change is negligible.



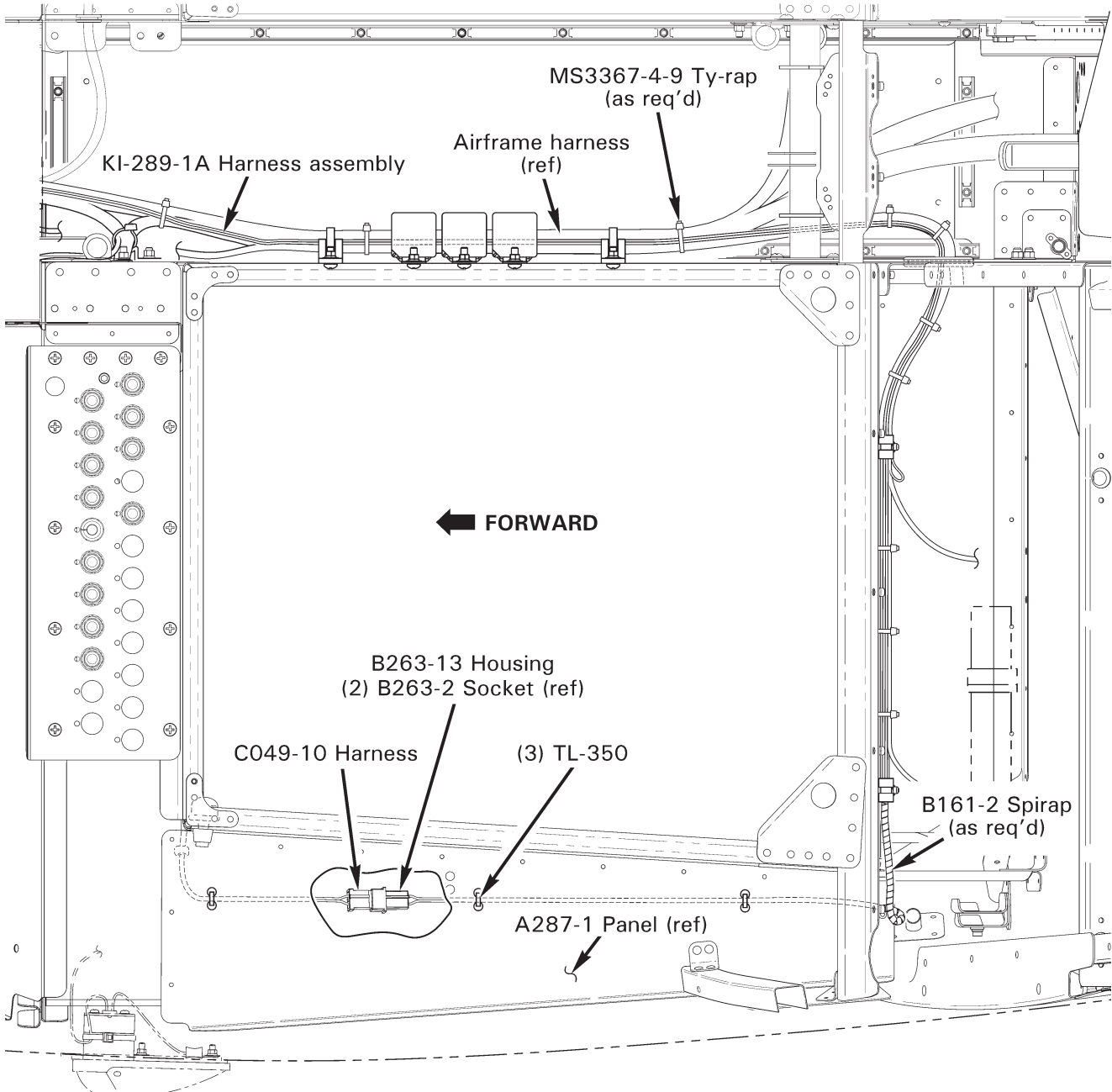
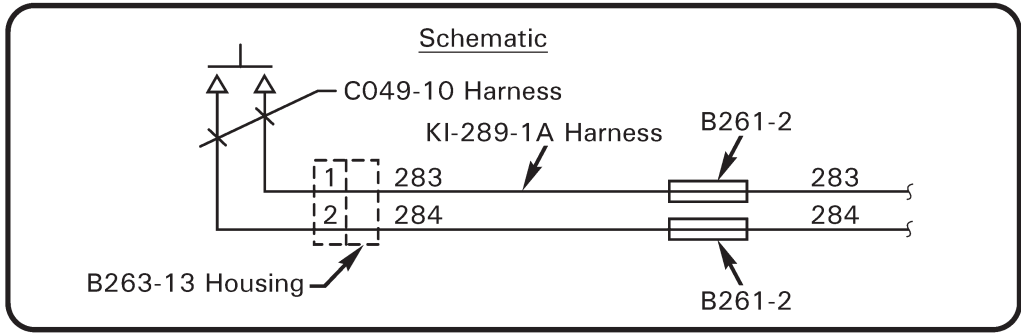
**Figure 1 A287-1 (LH) Panel**  
(view looking down)



**Figure 2 A291-3 Support drill location**  
(view looking inboard from LH co-pilot side)



**Figure 3 B441-1 brace drill location**  
(view looking inboard from RH side)



**Figure 4 Intercom switch installation**  
(view looking down)