

CHAPTER 25
FURNISHINGS

<u>Section</u>	<u>Title</u>	<u>Page</u>
25-00	Description	25.1
25-10	Seat Harnesses	25.3
25-11	Seat Harness Removal	25.3
25-12	Seat Harness Installation	25.4
25-20	Seat Assemblies and Back Rests	25.5
25-21	Seat Assembly Removal and Installation	25.5
25-22	Back Rest Assembly Removal and Installation	25.5
25-23	Back Rest Cushion Replacement	25.5
25-30	Carpet	25.7
25-40	Insulation (Foam and Headliner)	25.8
25-50	General Maintenance	25.8
25-51	Pilot's Operating Handbook (POH) Strap Replacement	25.8
25-52	License Holder Replacement	25.9
25-53	Map Pocket Replacement	25.9
25-60	Emergency Equipment	25.10
25-61	Emergency Locator Transmitter (ELT)	25.10
25-62	Fire Extinguisher	25.11

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CHAPTER 25
FURNISHINGS25-00 Description

The seats are not adjustable but the pilot-side pedals are adjustable. Each helicopter is supplied with a cushion which can be placed behind the pilot to position him forward. This allows shorter pilots to reach the pedals, the cyclic stick in its most forward position, and the controls on the center console.

Each seat is equipped with a combined seat belt and inertia reel shoulder strap. The inertia reel is normally free but will lock if there is sudden movement as would occur in an accident.

Five-point harnesses are optional for the front seats. The five-point harness is equipped with a webbing stop located above the inertia reel. The stop limits shoulder strap retraction and should be adjusted so the straps are comfortable without excessive slack.

The main baggage compartment is located between the cabin and the engine compartment. It is accessed via a large door on the aircraft right side. The cowl door annunciator illuminates to warn the pilot when the door is not latched. A light illuminates the compartment when the battery switch is ON. Tie down anchors are provided for securing items in the baggage compartment. Observe placarded weight limits. Placard locations and illustrations are given in Chapter 11.

Additional compartments are located under each seat except the center rear seat. Seat cushions hinge forward for access to these compartments. Do not load these compartments above the maximum fill lines. The lines indicate required crush space for the seats in an accident. Baggage compartment dimensions are given in Chapter 6.

WARNING

Never repair or modify seat assemblies, including seat assembly fabric, seat pans, or hook and loop tape (Velcro) securing fabric to seat pans. Seat assembly energy-absorption design is critical to occupant safety. To preserve crashworthiness, maintenance is limited to seat assembly replacement.

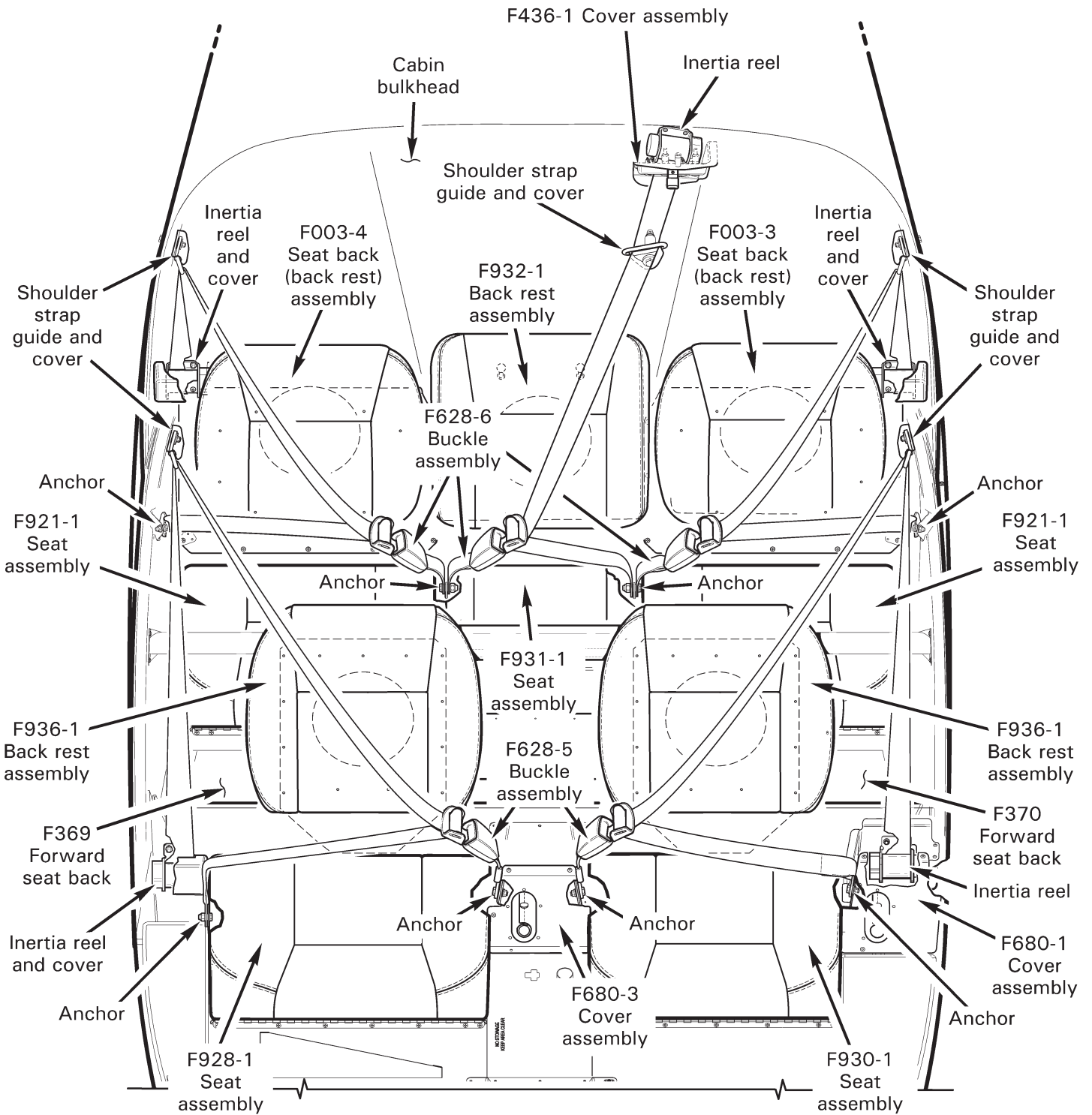


FIGURE 25-1 SEAT HARNESSES, SEAT ASSEMBLIES, AND BACK RESTS

25-10 Seat Harnesses

Refer to R66 Illustrated Parts Catalog (IPC) Figures 25-3 and 25-5. Refer to Figures 25-9, 25-11, and 25-13 for optional Five-Point Harness Installation.

25-11 Seat Harness Removal

A. Forward Seat Harness (Standard)

1. Refer to Figure 25-1. Remove F680-1 and F680-3 collective cover assemblies; hinge seat assemblies forward.
2. Remove hardware securing each F628-5 buckle assembly to inboard anchor, and hardware securing each lap belt fitting to outboard anchor.
3. Remove shoulder strap guide covers and hardware securing guides to door frames.
4. Remove right side inertia reel cover and hardware securing reels to F369 and F370 forward seat backs. Remove seat harnesses.

B. Five-Point Harness (Optional, not shown; for forward seats only)

1. Remove screws securing F424-1 bumper assembly to F423-4 tube assembly and remove bumper.
2. Refer to Figure 25-1. Remove F680-1 and F680-3 collective cover assemblies; hinge seat assemblies forward.
3. Remove hardware securing lap belts to inboard and outboard anchors. Remove hardware securing fifth-point belts to seat boxes.
4. Remove hole plugs, then remove inertia reel covers and hardware securing reels to F369 and F370 forward seat backs. Remove five-point harnesses.

C. Aft Left and Right Seat Harness

1. Refer to Figure 25-1. Remove F931-1 seat assembly; hinge left and right seat assemblies forward.
2. Remove hardware securing each F628-6 buckle assembly to inboard anchor, and hardware securing each lap belt fitting to outboard anchor.
3. Remove shoulder strap guide covers and hardware securing guides to door frames.
4. Remove inertia reel covers and hardware securing reels to cabin bulkhead.

D. Center Seat Harness

1. Remove tailcone cowling per Section 53-23.
2. Refer to Figure 25-1. Remove F931-1 seat assembly; hinge left and right seat assemblies forward.
3. Remove hardware securing F628-6 buckle assembly to inboard right side anchor and hardware securing lap belt fitting to inboard left side anchor.
4. Remove shoulder strap guide cover and hardware securing guide to cabin bulkhead and upper frame.
5. Remove F436-1 (headset jack) cover assembly and hardware securing inertia reel to cabin bulkhead.

25-12 Seat Harness Installation

A. Forward Seat Harness (Standard)

1. Refer to Figure 25-1. Install hardware securing inertia reels to F369 and F370 forward seat backs. Install right side reel cover.
2. Install hardware securing shoulder strap guides to door frames. Standard torque bolts per Section 20-32. Install guide covers.
3. Install hardware securing F628-5 buckle assemblies to inboard anchors, and lap belt fittings to outboard anchors. Position buckle swage between two forward rivets. Standard torque bolts per Section 20-32.
4. Install F680-1 and F680-3 collective cover assemblies.

B. Five-Point Harness (Optional, not shown; for forward seats only)

1. Attach inertia reels to F369 and F370 forward seat backs. Install covers and hole plugs. Verify security.
2. Attach lap belt fittings to inboard and outboard anchors. Standard torque bolts per Section 20-32.
3. Attach fifth point belts to seat boxes.
4. Refer to Figure 25-1. Install F680-1 and F680-3 collective cover assemblies; hinge seat assemblies forward.
5. Position F424-1 bumper assembly on F423-4 tube assembly and install screws. Verify security.

C. Aft Left and Right Seat Harness

1. Refer to Figure 25-1. Install hardware securing inertia reels to cabin bulkhead. Install reel covers.
2. Install hardware securing shoulder strap guides to door frames. Standard torque bolts per Section 20-32. Install guide covers.
3. Install hardware securing F628-6 buckle assemblies to inboard anchors, and lap belt fittings to outboard anchors. Standard torque bolts per Section 20-32.
4. Install F931-1 seat assembly.

D. Center Seat Harness

1. Refer to Figure 25-1. Install hardware securing inertia reel to cabin bulkhead. Install F436-1 (headset jack) cover assembly. Verify security.
2. Install hardware securing shoulder strap guide to cabin bulkhead and upper frame. Standard torque bolt per Section 20-32. Install guide cover.
3. Install hardware securing F628-6 buckle assembly to inboard right side anchor, and lap belt fitting to outboard left side anchor. Standard torque bolts per Section 20-32.
4. Install F931-1 seat assembly.
5. Install tailcone cowling per Section 53-23.

25-20 Seat Assemblies and Back Rests

Refer to R66 Illustrated Parts Catalog (IPC) Figure 25-1.

25-21 Seat Assembly Removal and Installation

WARNING

Never repair or modify seat assemblies, including seat assembly fabric, seat pans, or hook and loop tape (Velcro) securing fabric to seat pans. Seat assembly energy-absorption design is critical to occupant safety. To preserve crashworthiness, maintenance is limited to seat assembly replacement.

A. Seat Assembly

1. Refer to Figure 25-1. Remove or install hardware securing forward hinge to seat box.

B. Center Seat Assembly

1. Refer to Figure 25-1. Center seat assembly attaches and detaches to and from the seat box via hook and loop tape (Velcro).

25-22 Back Rest Assembly Removal and Installation

A. Aft Left and Right Back Rest Assembly

1. Refer to Figure 25-1. Remove or install hardware securing back rest assembly to cabin bulkhead.

B. Center Back Rest Assembly

1. Refer to Figure 25-1. Detach back rest assembly hook and loop tape (Velcro) at bottom; slide back rest assembly up and out of keyhole slots.
2. Install back rest assembly in keyhole slots and slide down. Press firmly on back rest assembly hook and loop tape (Velcro) at bottom. Verify security.

25-23 Back Rest Cushion Replacement

A. Forward Back Rest

1. Refer to Figure 25-1. Drill out rivets securing back rest cushion to seat back panel and deburr holes. Remove cushion.
2. Remove old adhesive residue from back rest support tube with plastic wedge. Wipe surface with clean cloth, wet with acetone.
3. Center and straighten new cushion on seat back panel. Match drill seat back panel #30 holes through cushion panel and deburr. Clean up debris.
4. Attach back rest cushion to seat back panel with rivets.
5. Apply B270-18 adhesive to underside of back rest cushion flap and to mating portion of support tube. Pull flap around tube, smooth wrinkles, and trim excess flap. Remove excess adhesive prior to curing.

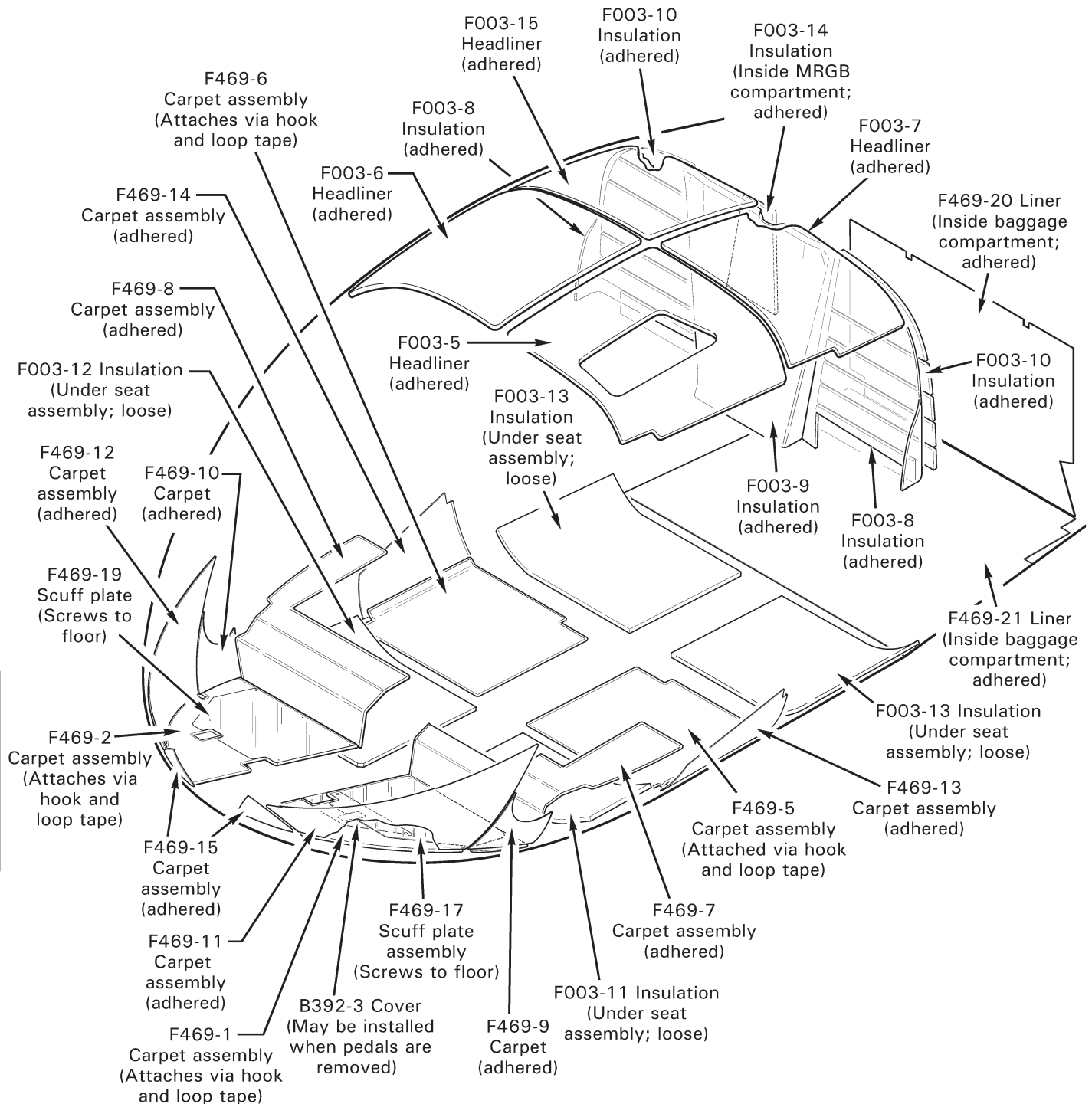


FIGURE 25-2 CARPET AND INSULATION

25-23 Back Rest Cushion Replacement (continued)**B. Aft Left and Right Back Rest**

1. Refer to Figure 25-1. Remove back rest assembly per Section 25-22.
2. Drill out rivets securing back rest cushion to seat back panel and deburr holes. Remove cushion.
3. Center and straighten new cushion on seat back panel. Match drill seat back panel #30 holes through cushion panel and deburr. Clean up debris.
4. Attach back rest cushion to seat back panel with rivets.
5. Install back rest assembly per Section 25-22.

25-30 Carpet

Refer to R66 Illustrated Parts Catalog (IPC) Figure 25-15.

A. Forward (Floor) Carpet Assembly Removal

1. Refer to Figure 25-2. Remove adjustable and/or removable pedals, as required.
2. Remove hardware securing scuff plates (and carpet) to cabin floor. Detach carpet from floor via hook and loop tape (Velcro).

B. Forward (Floor) Carpet Assembly Installation

1. Refer to Figure 25-2. Attach carpet to floor via hook and loop tape (Velcro).
2. Install scuff plates; install B392-3 left-side cover (may be installed when pedals are removed), as required.
3. Install adjustable and/or removable pedals, as required.

C. Aft (Floor) Carpet Assembly Removal and Installation

1. Refer to Figure 25-2. Attach or detach carpet to and from floor via hook and loop tape (Velcro).

D. Carpet and Liner**CAUTION**

Use caution when removing adhered carpet if carpet is intended for reuse.

1. Removal
 - a. Starting at corners, gently peel back carpet by hand, or with plastic wedge or putty knife.
 - b. Dampen old adhesive with Dupont Prep-Sol (or equivalent) to facilitate removal.
2. Installation
 - a. Verify proper carpet fit. Trim as required (do not trim carpet welt).
 - b. Apply B270-8 adhesive to bonding surface and carpet backing. Press carpet to surface, smooth wrinkles, and remove excess adhesive prior to curing.

25-40 Insulation (Foam and Headliner)

Refer to R66 Illustrated Parts Catalog (IPC) Figure 25-17.

A. Removal**NOTE**

Use caution not to damage surface underneath insulation when removing insulation with tools.

NOTE

Insulation is installed using adhesive, except under seat assemblies. Order new insulation as required; reuse of removed insulation is not recommended.

1. Peel off insulation by hand.
2. Using plastic wedge or putty knife, carefully remove residual insulation and old adhesive.
3. Wipe bonding surface with clean cloth, wet with acetone.

B. Installation

1. Verify proper insulation fit. Trim as required.
2. Apply B270-8 adhesive to bonding surface and insulation backing. Press insulation to surface, smooth wrinkles, and remove excess adhesive prior to curing.

25-50 General Maintenance25-51 Pilot's Operating Handbook (POH) Strap Replacement

Refer to R66 Illustrated Parts Catalog (IPC) Figure 25-19.

A. Removal

1. Remove POH.
2. Drill out rivets securing POH retaining strap to cabin right side and remove strap. Deburr holes and clean up debris.

B. Installation

1. Cleco POH retaining strap to cabin right side holes. Remove clecos and install rivets. Verify security.
2. Install POH.

25-52 License Holder Replacement

Refer to R66 Illustrated Parts Catalog (IPC) Figure 25-11.

A. Removal

1. Remove aircraft documents from license holder.
2. Drill out rivets securing license holder to cabin under left side windshield frame and remove license holder. Deburr holes and clean up debris.

B. Installation

1. Cleco license holder to cabin holes under left side windshield frame. Remove clecos and install rivets. Verify security.
2. Insert aircraft documents into holder and tuck upper flap into frame.

25-53 Map Pocket Replacement

Refer to R66 Illustrated Parts Catalog (IPC) Figure 25-11.

A. Removal

1. Drill out rivets securing map pocket to front wall of forward seat box. Remove pocket, washers, and retaining strips. Deburr holes and clean up debris.

B. Installation

1. Fold (long) outboard pocket edge around (long) A913-1 strip, align holes, and align holes with front of forward seat box. Cleco in place.
2. Pull material taut, fold (short) inboard pocket edge around (short) A913-2 strip, align holes, and align holes with front of forward seat box. Cleco in place. Trim excess material.
3. Remove clecos and install washers and rivets.

25-60 Emergency Equipment

25-61 Emergency Locator Transmitter (ELT)

NOTE

ELT installation is optional equipment.

A. ELT Information and Programming

Refer to Section 96-90 for ELT system description. Refer to Section 5-20 for scheduled maintenance.

Refer to ELT Kannad 406 AF-Compact/406 AF-Compact (ER) Installation and Operation Manual for maintenance requirements and procedures. Additional ELT information is available on the RHC website at: <http://www.robinsonhelicopter.com/supportelt.htm>.

Register an ELT when first purchased, when contact information changes, or when aircraft ownership, or tail number changes. For registration information, visit the COSPAS-SARSAT website at: <http://cospas-sarsat.org>.

Kannad 406 AF-Compact ELTs are interchangeable between aircraft. A dongle contains a memory chip that must be programmed with aircraft-specific information prior to installation for the ELT to function. The dongle may be removed and shipped to RHC or a Kannad service center for reprogramming.

B. Transmitter Removal and Installation

The ELT activates when subjected to a significant change in velocity (as in an accident), by remote control switch located on the cyclic control panel, or by a switch on the ELT transmitter.

NOTE

Do not cut B359-2 releasable, reusable ty-rap.

1. To remove ELT transmitter:
 - a. Follow instructions hot stamped on ty-rap: "PULL RED TAB TO REMOVE."
 - b. Release Velcro strap and remove transmitter. Disconnect dongle & antenna lead.
2. To install ELT transmitter:
 - a. Connect dongle and antenna lead and install transmitter. Secure Velcro strap and install B359-2 ty-rap.

C. Dongle Removal and Installation

1. Cut and discard ty-raps as required, disconnect dongle from plastic connector and ELT transmitter, and remove dongle.
2. Connect programmed dongle to plastic connector and ELT transmitter, and install ty-raps as required. Cinch ty-raps until snug without over-tightening, and trim tips flush with heads.

25-62 Fire Extinguisher

Refer to R66 Illustrated Parts Catalog (IPC) Figure 25-13.

NOTE

Fire extinguisher installation is optional equipment.

A. Inspection

Inspect fire extinguisher monthly according to manufacturer's instructions. Maintenance instructions are located on extinguisher bottle. Record inspection date and findings as required.

B. Bracket Removal

1. Unlock fire extinguisher bracket and remove extinguisher.
2. Remove hardware securing bracket to cabin under left side windshield frame and remove bracket.

C. Bracket Installation

1. Install hardware securing fire extinguisher bracket to cabin under left side windshield frame. Select screw length as required to provide 0.00-0.06 inch thread exposure. Verify security.
2. Inspect fire extinguisher per Part A.
3. Install fire extinguisher and lock extinguisher bracket.

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