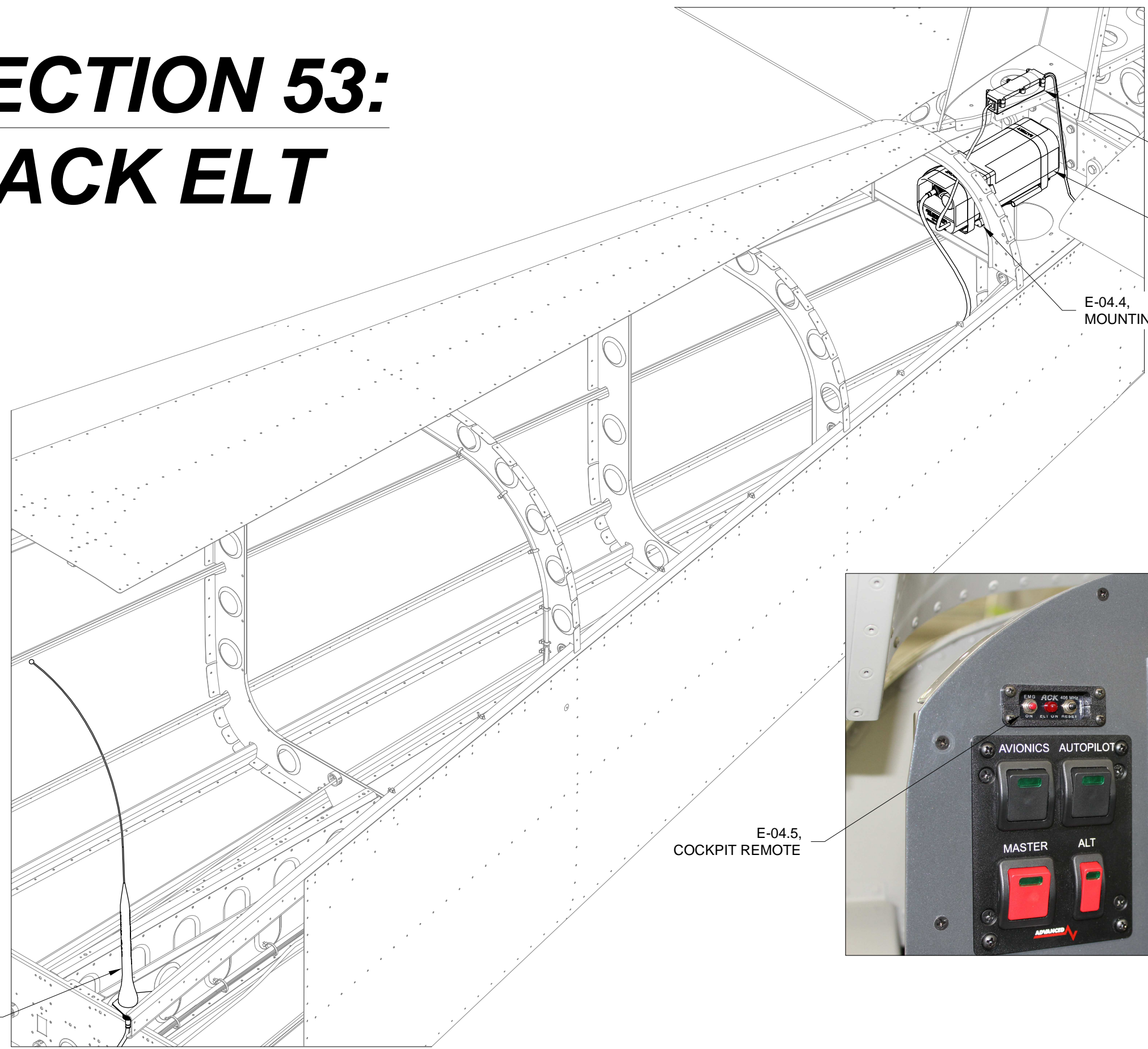
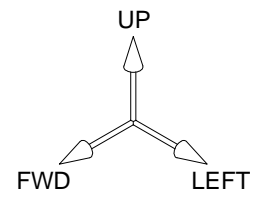


SECTION 53: ACK ELT



E-04.7,
AUDIO ALERT

E-04,
ELT

E-04.4,
MOUNTING TRAY

E-04.5,
COCKPIT REMOTE

E-04.8,
WHIP ANTENNA



NOTE: Special tools required to complete this section include a soldering iron.

DATE OF COMPLETION: _____
 PARTICIPANTS: _____
 DATE: 09/14/15 | REVISION: 0 | RV-14 | PAGE 53-01



NOTE: Read and understand the installation manual that is provided with the ELT before and during installation. The ELT Installation and Operation Manual should be followed in case of any discrepancy between it and these instructions.

Step 1: Clean or sand off any paint/primer to expose the bare metal on the bottom of the F-14117 ELT Antenna Bracket where the attaching washer and nut will make contact. See Figures 1 & 2.

Step 2: Install the E-04.8 ELT Whip Antenna on the antenna bracket with the provided nut and washer. Align the antenna aft and rotate inward to clear the window as shown in Figure 2.

Step 3: Curve the metal part of the antenna to match the curvature of the window keeping approximately 1/8 [3.2 mm] spacing from the surface.

Stabilize the tip of the antenna against the window with a dab of clear silicone.

Step 4: Install the snap bushing in the F-01406A-L Bulkhead and feed the WH-00015 Antenna Cable through from the Aft Fuselage. See Figure 2.

NOTE: The E-04.10.1.12 Static Suppressor supplied with the ELT Antenna does not need to be used in this installation.

Step 5: Attach the WH-00015 Antenna Cable to the E-04.8 Antenna as shown in Figure 2.

Step 6: Secure the antenna cable to the F-01418B-L Aft Fuse Longeron and the F-01458-L Side Frame with plastic tie wraps as shown in Figure 2.

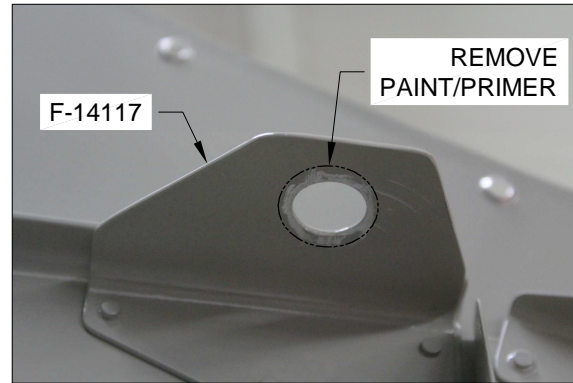


FIGURE 1: BRACKET PREPARATION

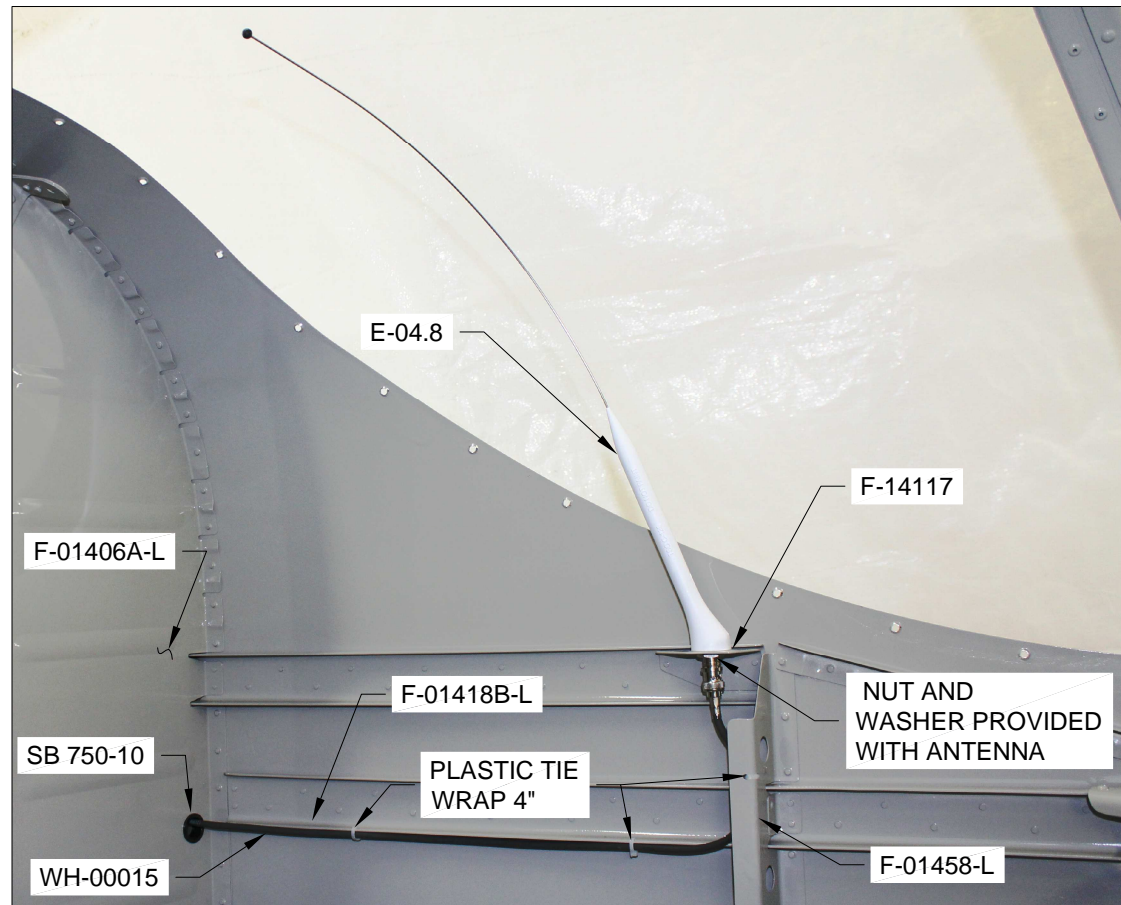


FIGURE 2: ANTENNA INSTALLATION

Step 7: Install a battery in the E-04.5 Cockpit Remote according to the instructions supplied with the ELT.

NOTE: Panels will vary between aircraft. Follow the guidelines in the ELT Installation and Operation Manual to choose an appropriate location if using a panel other than what is shown in these instructions.

Step 8: Attach the cockpit remote to the Inst Panel Left as shown in Figure 3.

A paper template is supplied at the end of this section for the cockpit remote cutout, in the case that there is not a hole pre-punched in the instrument panel.

Step 9: Route the WH-00059 Phone Cable to the back of the cockpit remote as shown in Figure 3 detail and insert.

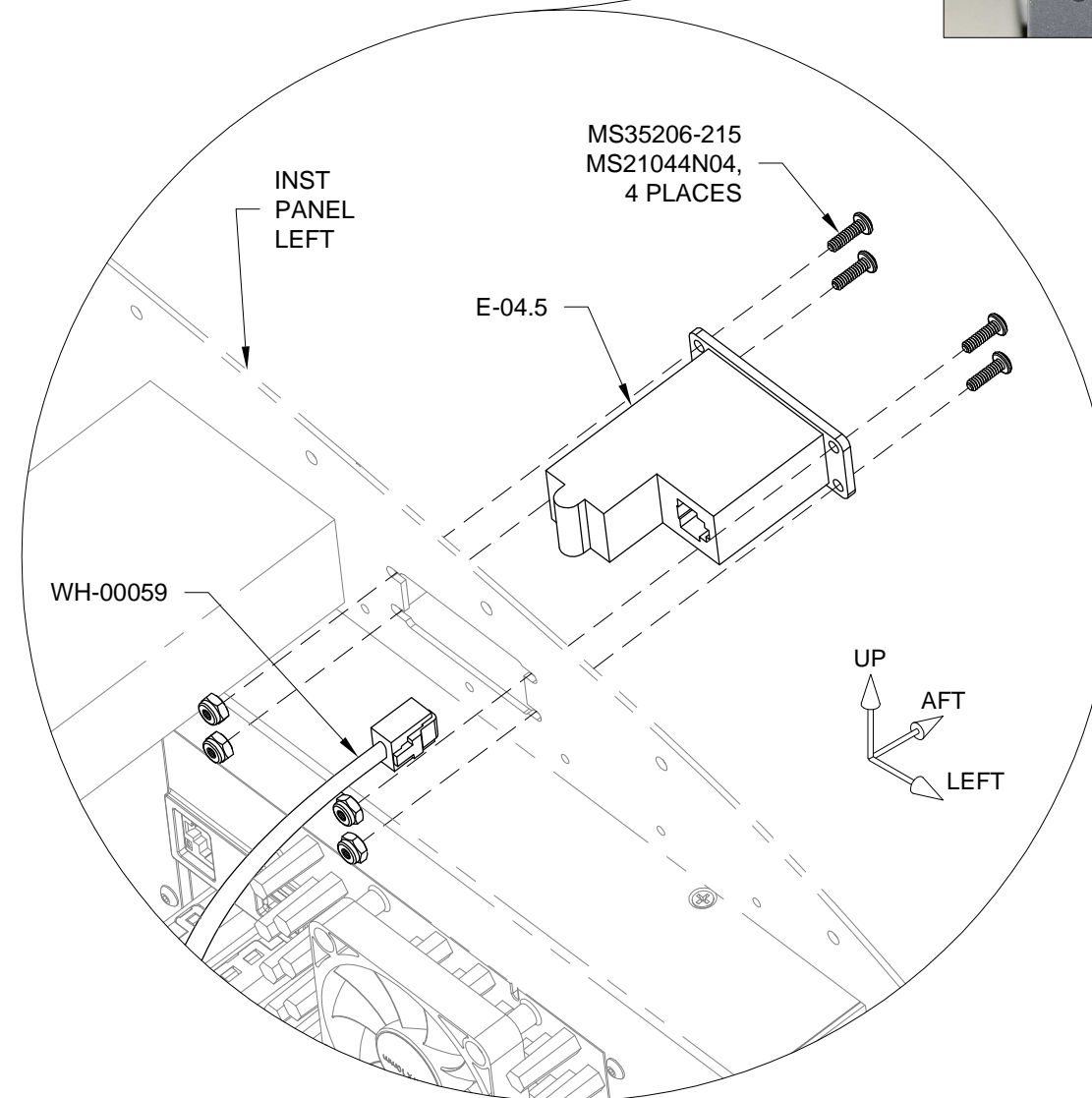


FIGURE 3: COCKPIT REMOTE INSTALLATION



Step 1: If no holes are present in the VS-705 as shown in Figure 2, use the E-04.7 Audio Alert to make a drill template (with four holes) as shown in Figure 1 from scrap aluminum.

Step 2: Locate and match-drill #27 mounting holes in the drill template into the VS-705 Nose Rib as shown in Figure 2. Cleco as you drill to hold the template in place.

Step 3: Insert the plastic tie wraps through the holes in the nose rib as shown in Figure 2.

Step 4: Install a new battery in the audio alert as detailed in the ELT Installation and Operation Manual.

Step 5: Attach the audio alert to the nose rib with plastic tie wraps as shown in Figure 3.

Step 6: Attach the WH-00059 Phone Cable to the aft input of the Audio Alert Indicator as shown in Figure 3.

DRILL #27
TO THE INSIDE
OF THE OUTER
TAB LOCATIONS,
4 PLACES

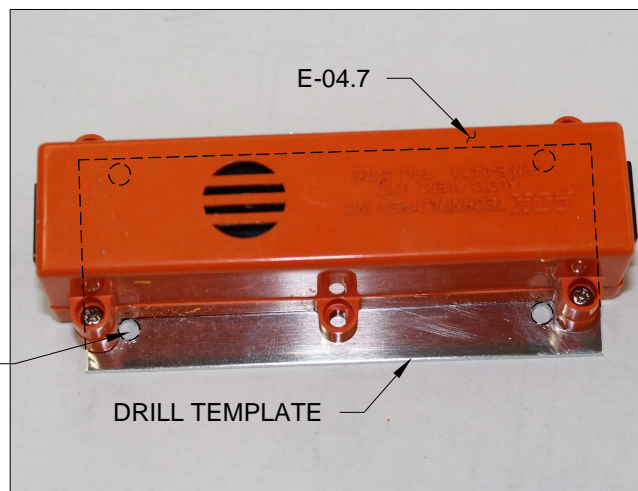


FIGURE 1: DRILL TEMPLATE

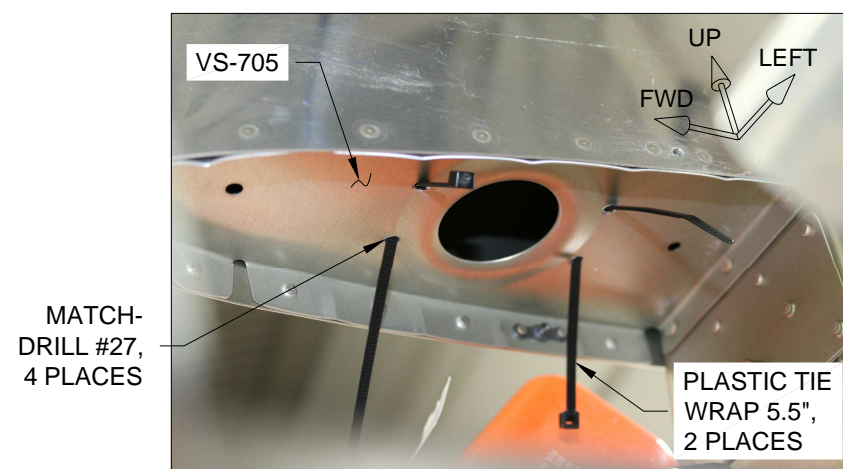


FIGURE 2: DRILL ATTACH HOLES

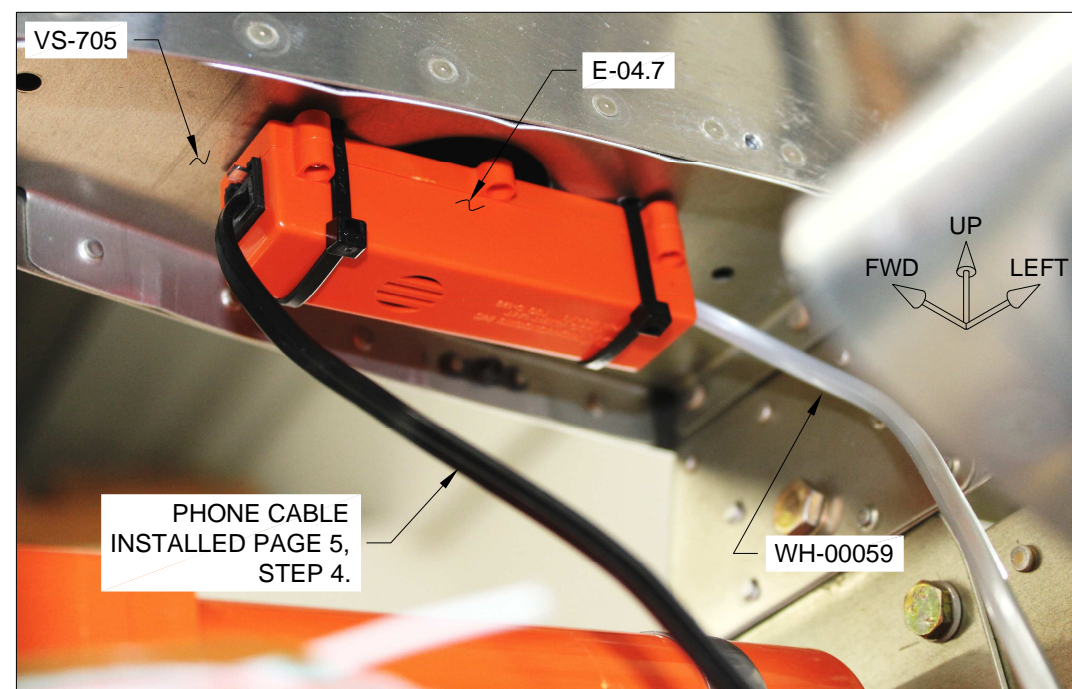


FIGURE 3: ATTACH THE AUDIO ALERT INDICATOR

Step 7: Final-Drill #19 the holes in the E-04.4 Mounting Tray as called out in Figure 4.

Step 8: Install the E-04.4 Mounting Tray using the hardware shown in Figure 4 and the Retaining Straps provided with the ELT. Note the orientation of the mounting tray and that the strap labeled "BATTERY" goes at the aft end.

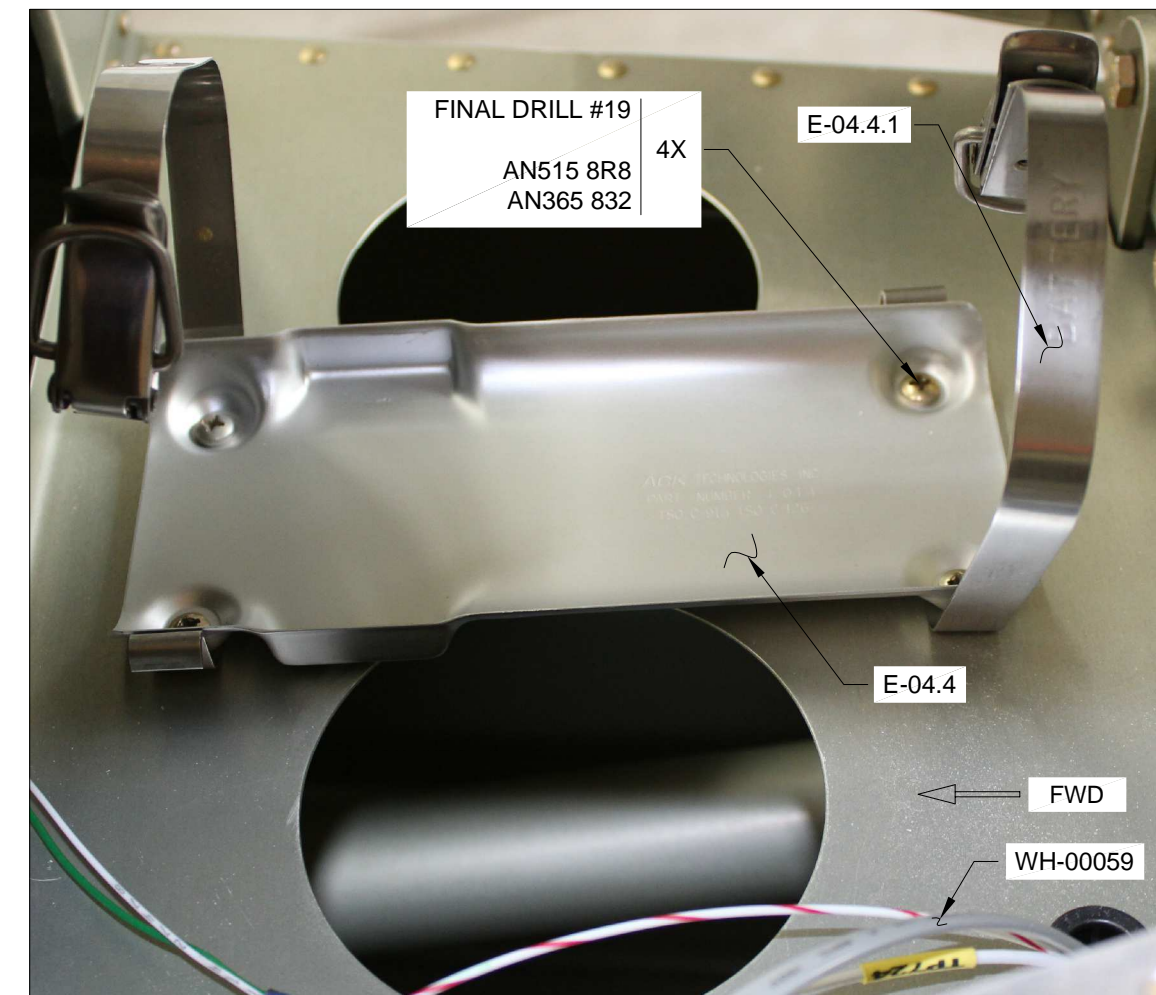


FIGURE 4: ELT MOUNTING TRAY INSTALLATION

NOTE: For the steps on this page see the installation and operations manual provided with the ELT unit. See also Section 5.21 of the builder's manual for information on electrical connections.

Step 1: Find the DIN connector that comes with the ELT and disassemble as instructed in the ELT Installation and Operations Manual.

Step 2: Fabricate the test wire as described in the ELT Installation and Operations Manual, strip one end and crimp on one of the supplied female pins. See Section 5.21 for more information on crimping moxley type connectors. This will now be referred to as the WH-TP3015 Test Wire.

Step 3: Fabricate four of the ES-00310 ELT HST by cutting pieces from the supplied ES HST-3/16 Heat Shrink tubing to approximately 3/4 [19.1 mm] long.

Step 4: Install the DIN connector outer cover over the 3 wires with the microfit moxley pins that are routed up through the snap bushing in the F-01414 Aft Deck. Refer to the ELT Installation and Operation Manual for illustrations and further information.

Step 5: Install the wires onto the DIN jack as shown in Figure 3 and solder as described in the ELT Installation and Operation Manual. Note that these wires will be either color coded or labeled to indicate their purpose.

Push heat shrink tubing over pins and activate with a heat gun or equivalent.

Step 6: Install the connector body pieces with RTV silicone as shown in the ELT Installation and Operation Manual.

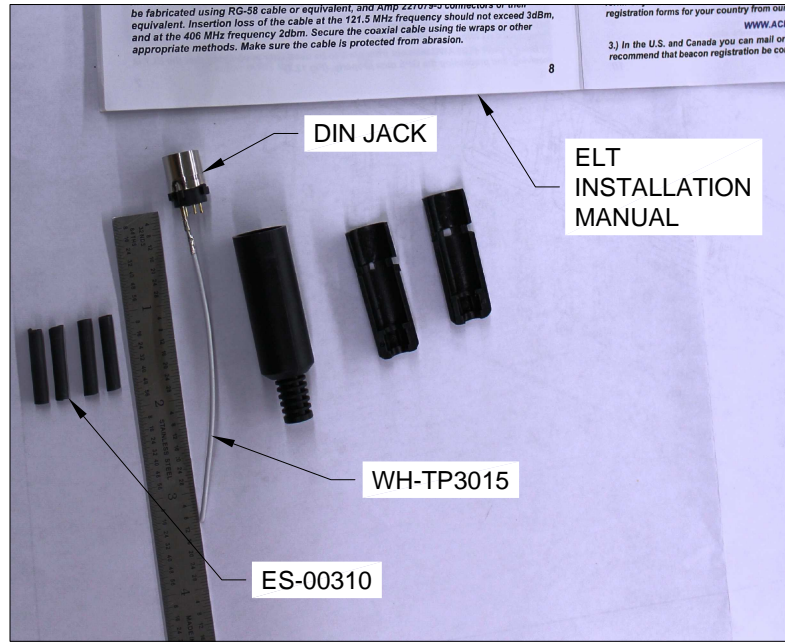


FIGURE 1: DIN CONNECTOR COMPONENTS

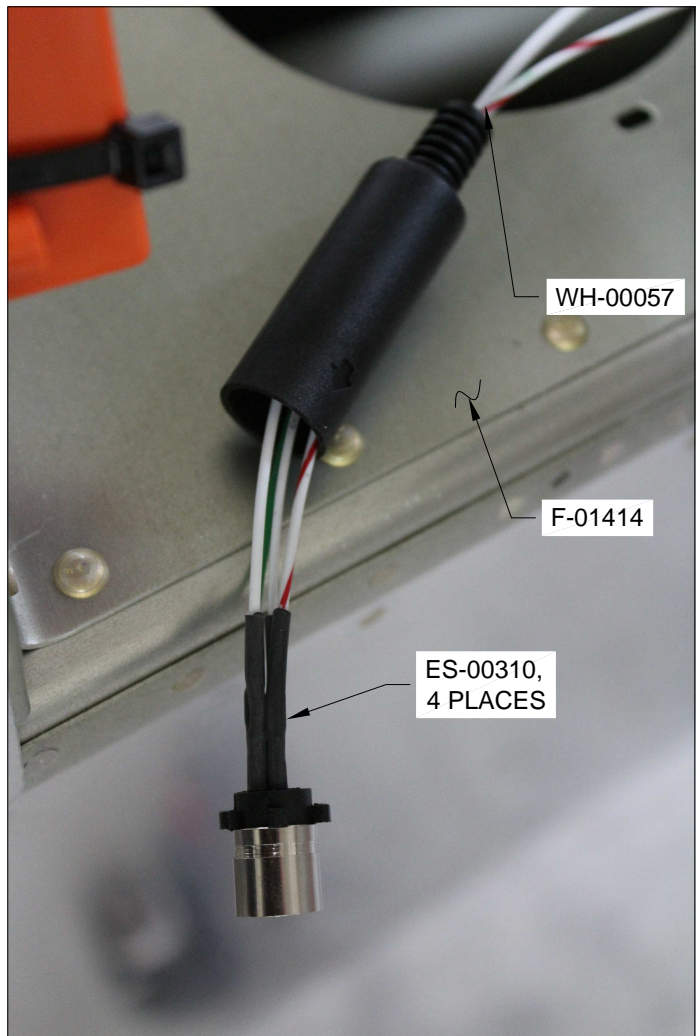


FIGURE 2: DIN JACK WIRE CONNECTIONS

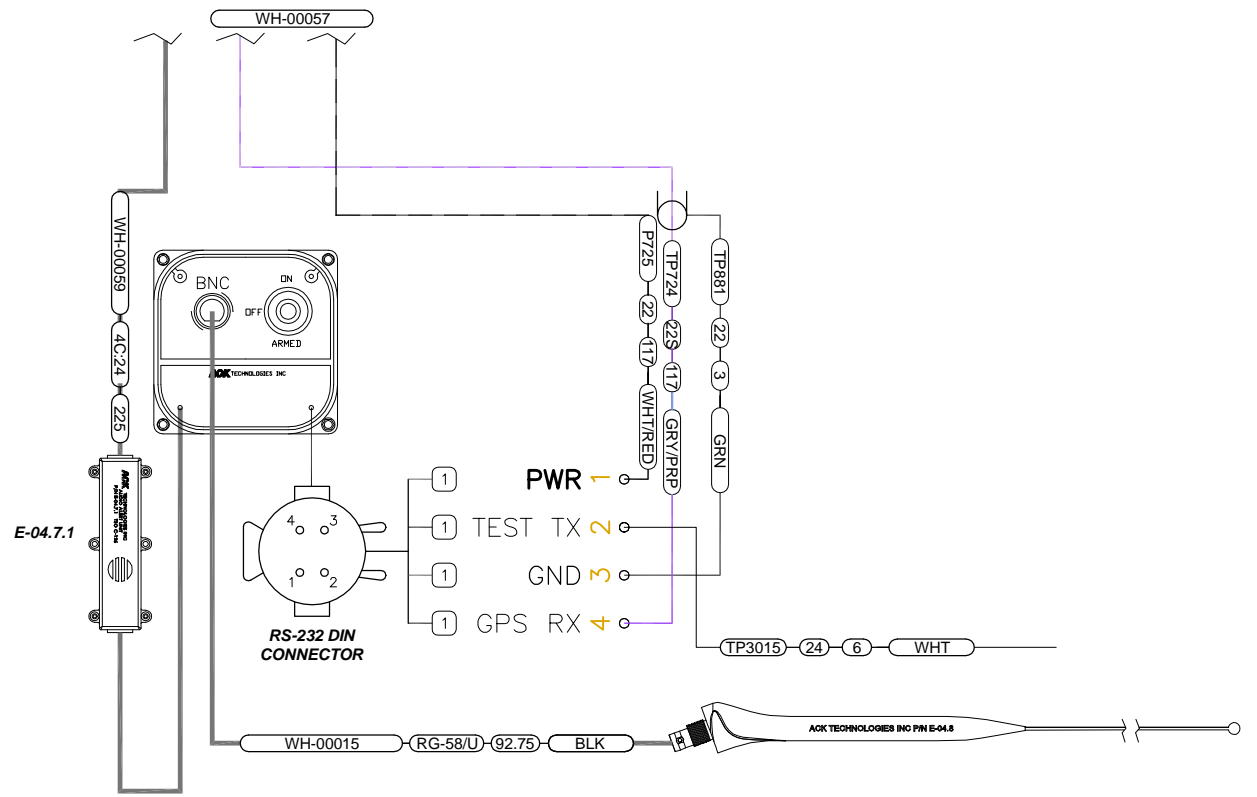


FIGURE 3: DIN CONNECTOR WIRING DIAGRAM

Step 7: Fabricate the ES-00311 Grommet Strip by cutting a 2 [50.8 mm] piece of MS21266-N1 Grommet Strip as shown in Figure 4.

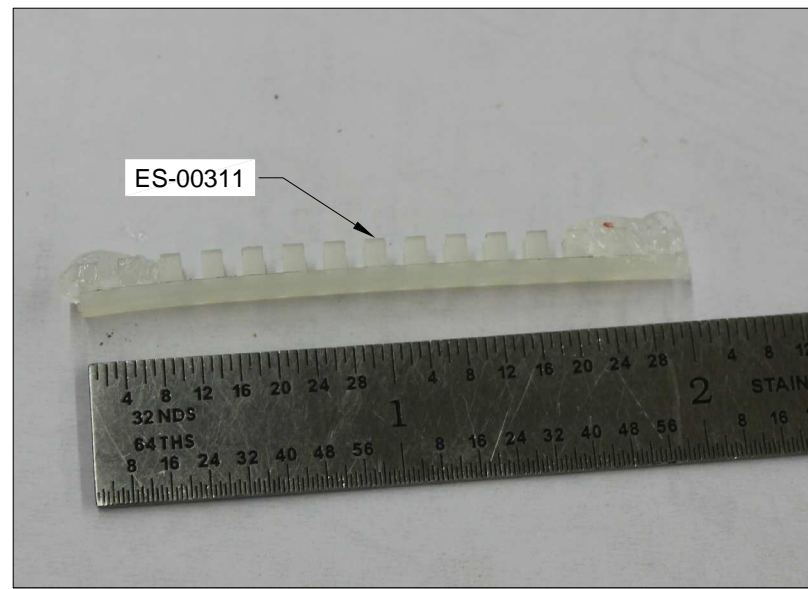
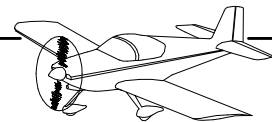


FIGURE 4: CUT THE CAT TRACK



NOTE: Refer to Figure 1 for the following steps.

Step 1: Place a piece of good quality clear packing tape to form a protective seal over the label on the E-04 ELT.

Step 2: Install the ELT on the E-04.4 Mounting Tray and secure the straps.

Step 3: Connect the aft end of the WH-00015 Aft Fuselage Harness DIN connector onto the ELT and ensure a positive connection.

Step 4: Connect the phone cable from the ELT into the forward socket in the E-04.7 Audio Alert. See Figure 1 and Page 3 Figure 3.

Step 5: Connect the DIN connector on the ELT to the DIN connector assembled with the WH-00057 Aft Fuselage Harness wires on Page 4.

Step 6: Install plastic tie wraps as necessary to secure wires.

Step 7: Secure the ES-00311 Grommet Strip to the flange on F-01414 with RTV to protect the wires passing above.

Step 8: Move the ELT main switch to the "ARMED" position and install the switch cover.

Step 9: Perform the ELT tests and registration procedures detailed in the ELT Installation and Operation Manual.

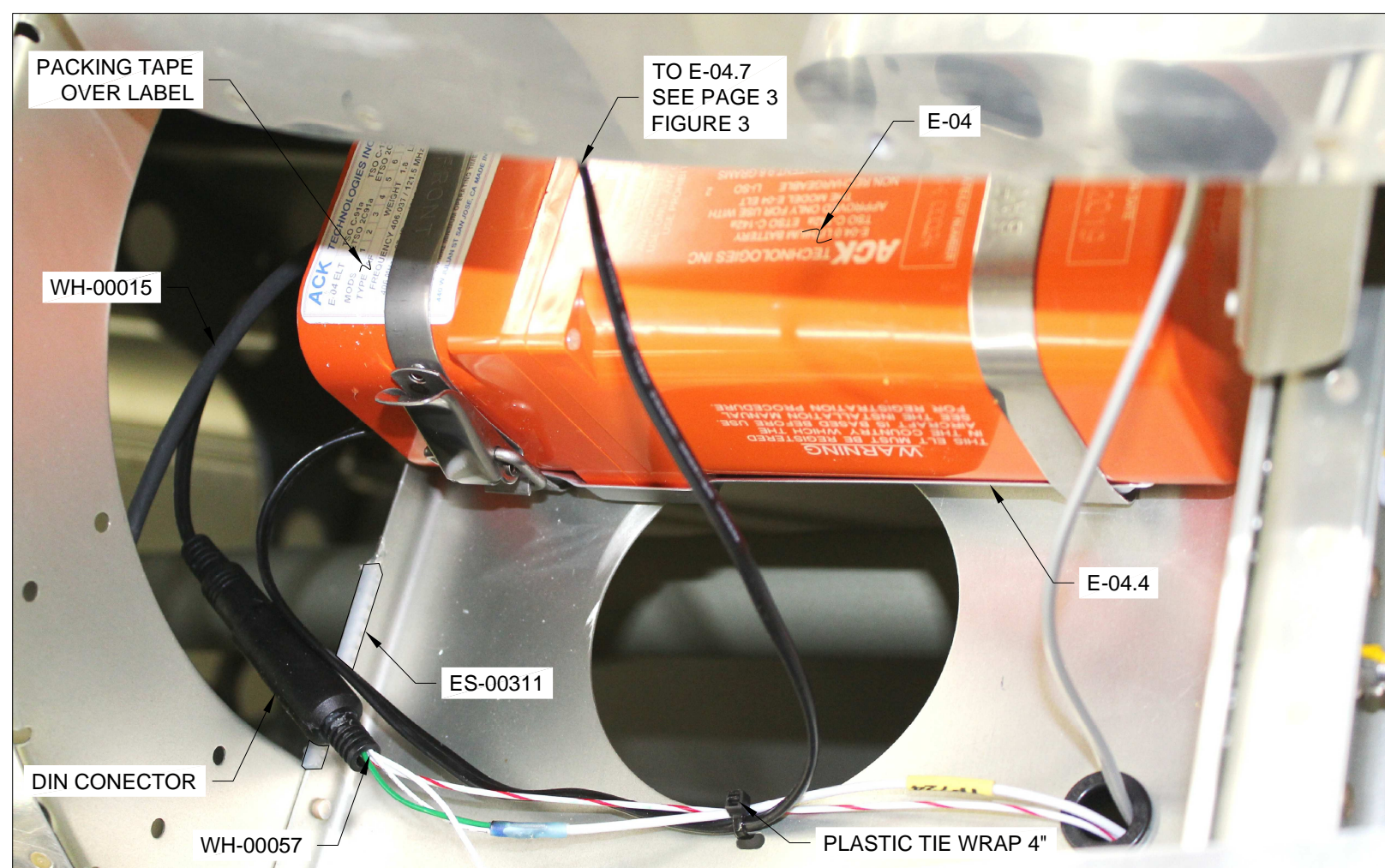
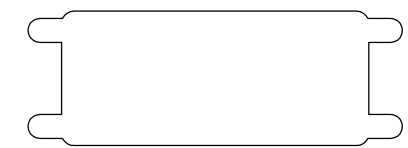
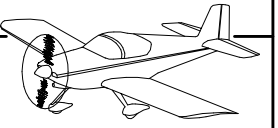


FIGURE 1: ELT FINAL INSTALLATION



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E-04.5 MOUNTING CUTOUT TEMPLATE
FULL SCALE

10 9/16
[268.3 mm]

NOTE: CHECK PRINTED SCALE 1:1 PER SECTION 3
BEFORE USING THE TEMPLATE!

16
[406.4 mm]



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