

ARTEX ME406 EMERGENCY LOCATOR TRANSMITTER SYSTEM - MAINTENANCE PRACTICES

1. General

- A. This section gives maintenance practices for the emergency locator transmitter (ELT) system. Components in the ELT system include the ELT, antenna, remote switch, and buzzer.

2. Emergency Locator Transmitter (ELT) Removal/Installation

- A. Remove the Emergency Locator Transmitter (ELT) (Refer to Figure 201).

- (1) Make sure the MASTER switch is in the OFF position.
- (2) Remove access panel 340A on the right side of the tail dorsal assembly. Refer to Chapter 6, Access Plates and Panels Identification - Description and Operation.
- (3) Keep the ON/ARM switch on the ELT in the ARM position.

CAUTION: Remove the electrical connector and the ELT is off. However, the ELT can be activated with the electrical connector removed if the switch on the front is moved to the ON position. Be careful not to move the switch to the ON position.

- (4) Disconnect the BNC connector (PZ148) and the electrical connector (PZ153) from the ELT.

NOTE: The ELT is off when the electrical connector is removed from the ELT.

- (5) Open the latch on the ELT strap assembly and lift the hinged strap up and away from the ELT.
- (6) Open the Velcro strap that holds the ELT to the mounting tray.
- (7) Remove the ELT from the mounting tray.

- B. Install the Emergency Locator Transmitter (ELT) (Refer to Figure 201).

NOTE: The ELT is off when the electrical connector is removed from the ELT.

CAUTION: Remove the electrical connector and the ELT is off. However, the ELT can be activated with the electrical connector removed if the switch on the front is moved to the ON position. Be careful not to move the switch to the ON position.

- (1) Put the ELT in the mounting tray at the angle necessary to engage the lock mechanism at the opposite end of the ELT.
- (2) Push the ELT down into the mounting tray until it is fully installed in the tray.
- (3) Connect the Velcro strap that holds the ELT firmly to the mounting tray.
- (4) Move the hinged strap down on the ELT and close the ELT strap assembly latch.
- (5) Connect the BNC connector and the electrical connector to the ELT.
- (6) Make sure the ON/ARM switch is in the ARM position.
- (7) For Airplanes 20800500 and On and 208B02000 and On do the software configuration load. Refer to Garmin G1000 Integrated Avionics System - Adjustment/Test, G1000 Option Software/Configuration Load.
- (8) Do a Transmitter Test of the Artex ME406 Emergency Locator Transmitter (ELT) System. Refer to Emergency Equipment - Inspection/Check.
- (9) Install access panel 340A on the right side of the tail dorsal assembly.

3. ELT Buzzer Removal/Installation

- A. Remove the ELT Buzzer (Refer to Figure 201).

- (1) Remove electrical power from the airplane.
- (2) Remove access panel 340A on the right side of the tail dorsal assembly. Refer to Chapter 6, Access Plates and Panels Identification - Description and Operation.
- (3) Remove the screws from the terminals on the top of the buzzer.
- (4) Remove the electrical connectors from the terminals on the buzzer.
- (5) Remove the mounting nut on the bottom side of the bracket from the bottom of the buzzer.
- (6) Lift the buzzer from the bracket and remove the buzzer from the tailcone.

- B. Install the buzzer (Refer to Figure 201).

- (1) Carefully put the buzzer in position on the bracket.

- (2) Install the mounting nut on the bottom of the buzzer.
- (3) Put the electrical connectors on the terminals on the top of the buzzer.
- (4) Install screws to the terminals to hold the electrical connectors on the terminals.
- (5) Do a Transmitter Test of the Artex ME406 Emergency Locator Transmitter (ELT) System. Refer to Emergency Equipment - Inspection/Check.
- (6) Install access panel 340A on the right side of the tail dorsal assembly. Refer to Chapter 6, Access Plates and Panels Identification - Description and Operation.

4. Remote Switch Removal/Installation

A. Remove the Remote Switch (Refer to Figure 201).

- (1) Remove electrical power from the aircraft.
- (2) Remove access panel 340A on the right side of the tail dorsal assembly. Refer to Chapter 6, Access Plates and Panels Identification - Description and Operation.
- (3) Disconnect the electrical connector (PZ153) from the ELT.
- (4) Remove the screws from the front of the switch.
- (5) Pull the remote switch from the panel to get to the electrical connector.
- (6) Disconnect the connector from the back of the switch.

B. Install the Remote Switch.

- (1) Connect the electrical connector to the back of the switch.
- (2) Put the remote switch into the panel.
- (3) Install the screws on the front of the switch.
- (4) Connect the electrical connector to the ELT.
- (5) Do a Transmitter Test of the Artex ME406 Emergency Locator Transmitter (ELT) System. Refer to Emergency Equipment - Inspection/Check.
- (6) Install access panel 340A on the right side of the tail dorsal assembly.

5. ELT Antenna Removal/Installation

A. Remove the ELT Antenna (Refer to Figure 201).

NOTE: The ELT antenna is found on the top surface of the fuselage at FS 311.45 and RBL 3.62 for the Model 208. For the Model 208B, the antenna is at FS 359.45 and RBL 15.55.

- (1) Remove access panel 340A on the right side of the tail dorsal assembly.

NOTE: The ELT is off when the electrical connector is removed from the ELT.

CAUTION: Remove the electrical connector and the ELT is off. However, the ELT can be activated with the electrical connector removed if the switch on the front is moved to the ON position. Be careful not to move the switch to the ON position.

- (2) Make sure the ELT ON/ARM switch is in the ARM position and disconnect the electrical connector (PZ153) from the ELT.
- (3) Remove the ELT antenna. Refer to Figure 201.
 - (a) Remove and keep the screws that attach the ELT antenna to the top surface of the fuselage.
 - (b) Carefully lift the antenna from the fuselage surface.
 - (c) Disconnect the BNC connector from the antenna.

B. Install the ELT Antenna (Refer to Figure 201).

- (1) Make sure that you remove all of the old sealant from the ELT antenna and the airplane skin. Refer to Chapter 20, Fuel, Weather, Pressure and High Temperature Sealing - Maintenance Practices.
- (2) Connect the BNC connector to the ELT antenna.
- (3) Apply a chemically conductive chemical film treatment to the faying surfaces of the ELT antenna and to the airplane structure to make sure that there is an electrical bond. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.

- (4) Put the ELT antenna in position on the top surface of the fuselage.
- (5) Attach the ELT antenna to the top surface of the fuselage with the kept screws.
 - (a) Torque the screws to a maximum of 20 inch-pounds.
- (6) Use a Type I, Class B sealer to apply a fillet seal around the antenna where it touches the outside surface of the airplane. Refer to Chapter 20, Fuel, Pressure, Weather and High-Temperature Sealing - Maintenance Practices.
- (7) With the ELT ON/ARM switch in the ARM position, connect the electrical connector to the ELT.
- (8) Do a Transmitter Test of the Artex ME406 Emergency Locator Transmitter (ELT) System. Refer to Emergency Equipment - Inspection/Check.

Figure 201 : Sheet 1 : Artex ME406 Emergency Locator Transmitter (ELT) System Installation

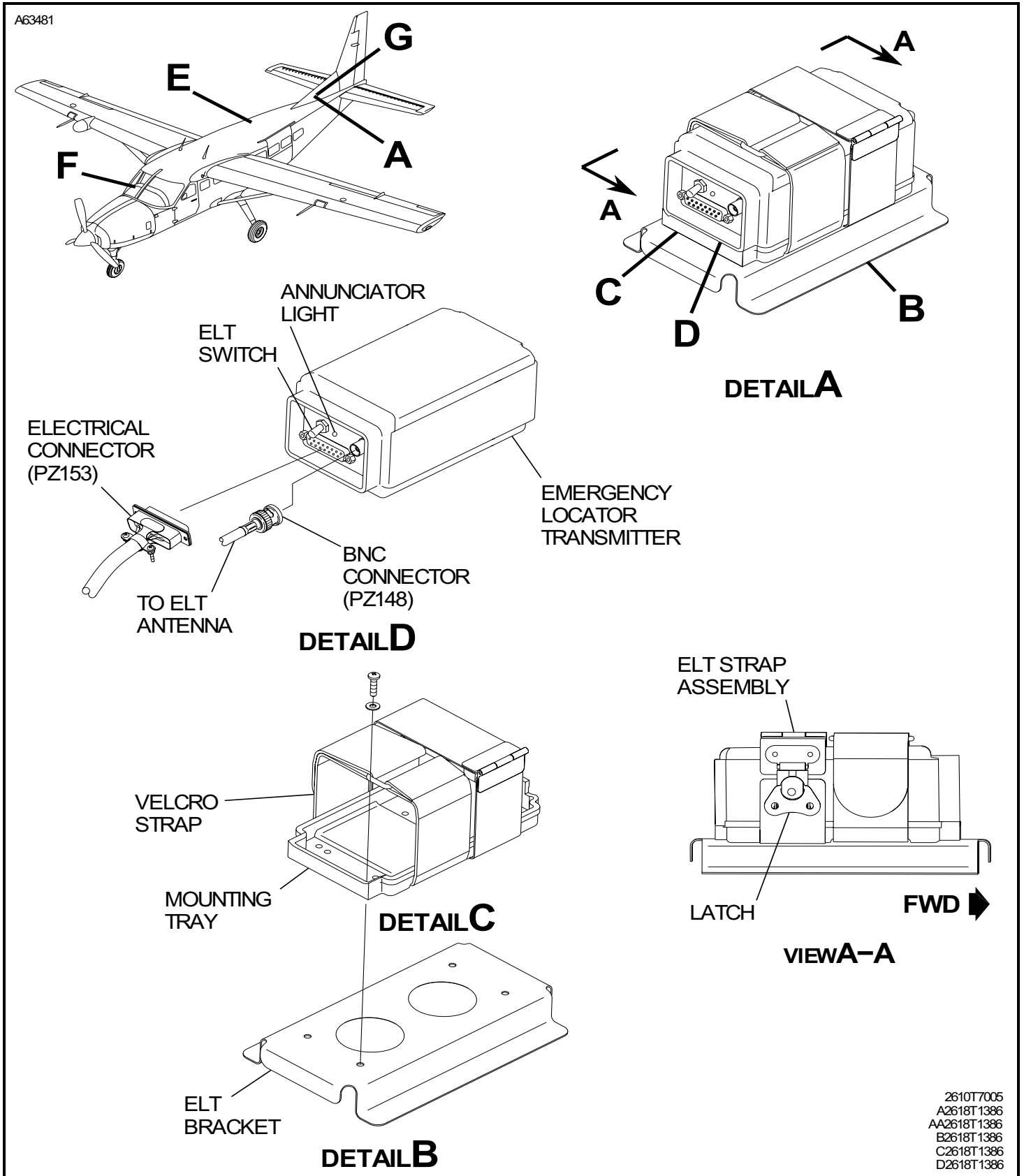
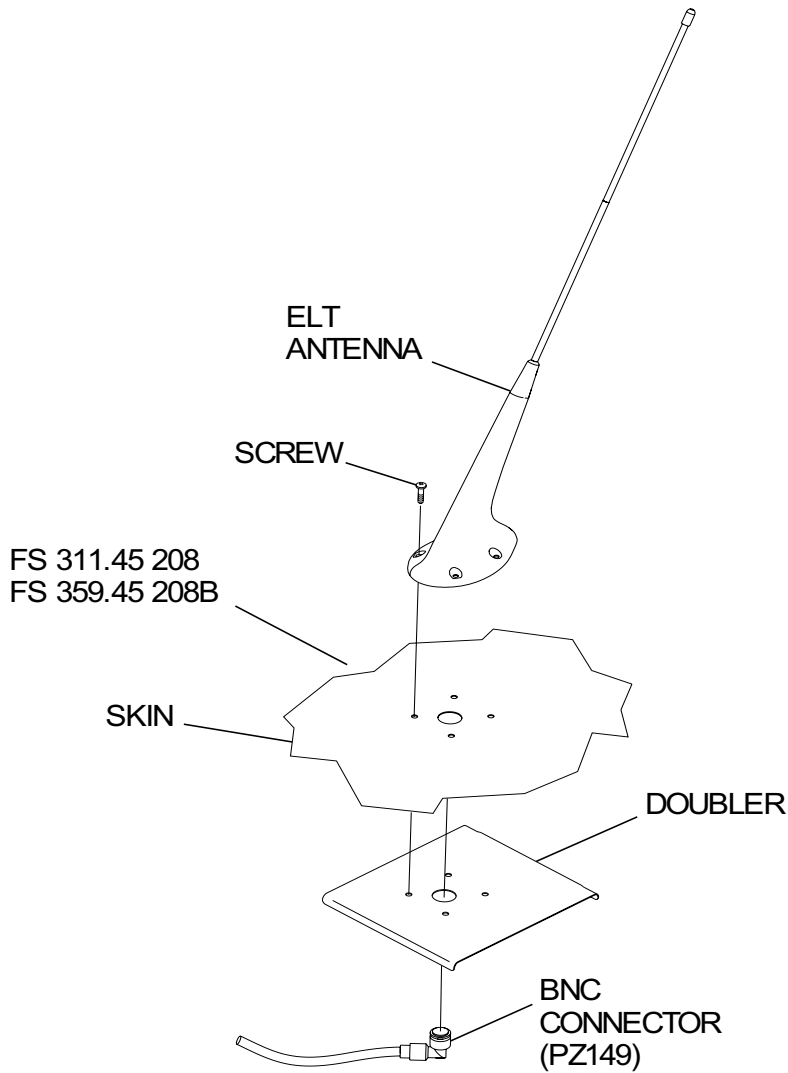
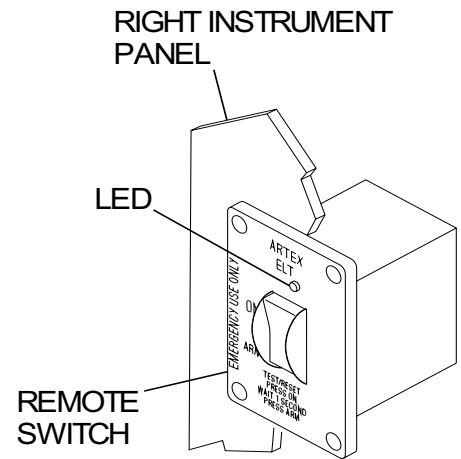


Figure 201 : Sheet 2 : Artex ME406 Emergency Locator Transmitter (ELT) System Installation

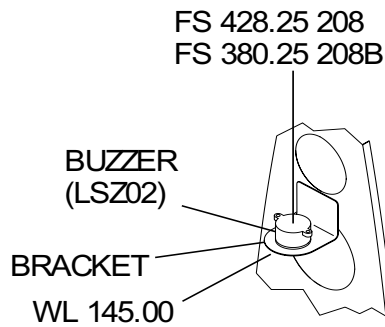
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DETAIL E



DETAIL F



DETAIL G

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