

SUPPLEMENT No. 14

ME-406 EMERGENCY LOCATOR TRANSMITTER

This Supplement must be included in the Z 143 L - Z 143 LSi Airplane Maintenance Manual (Doc. No. 005.022.2), Chapter 95, ME-406 ELT when is installed.

The information contained herein supplements or supersedes the information in Airplane Maintenance Manual (Doc. No. 005.022.2).

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EFFECTIVITY: ALL

LIST OF EFFECTIVE PAGES

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95-140-00	95/140-1	2011-02-02	All
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ME-406 ELT

DESCRIPTION AND OPERATION

Emergency Locator Transmitter ME-406 is a system determined for aircraft localization at emergency situations and crashes. ME-406 ELT is located under the floor of upper cargo compartment and it is accessible through the door in fuselage side. The ELT remote control is located in the left instrument panel.

The antenna of ELT is located on the upper right side behind the cockpit while portable antenna is fixed to ELT body.

TECHNICAL CHARACTERISTICS

Size:	6.59"L x 2.86"H x 3.69"W
Weight:	2.05 lbs. with tray
Output Power:	406 MHz: 5 watts for 24 hours; 121.5 Mhz: 100 mW min for 50 hours
Antenna Connector:	BNC Female
Activation:	Automatic by 4.5 ft/sec G-switch or Manual
Temperature:	-20 to 55 °C
Antenna Rating:	Rod <350 kts Whip <200 kts

TROUBLESHOOTING GUIDE

See the Description, Operation, Installation and Maintenance Manual for the ME-406 ELT.

MAINTENANCE

REMOVAL AND INSTALLATION

REMOVAL OF ELT (Fig. 2)

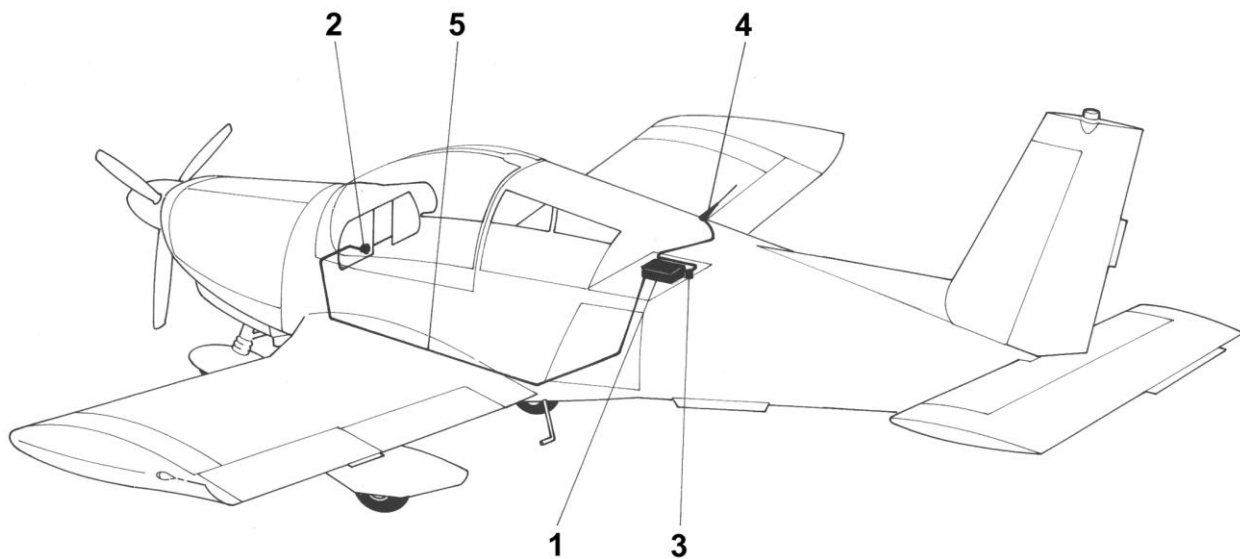
- a) Disconnect connectors.
- b) Open fixing stripe ELT to console.
- c) Remove ELT from the airplane.

Replacement of ELT Battery Pack

See the Description, Operation, Installation and Maintenance Manual for the ME-406 ELT.

ELT INSTALLATION (Fig. 2)

- a) Fit the ELT to console and join it with fixing stripe.
- b) Connect the connectors.
- c) Check ELT serviceability.



- 1. ME-406 ELT
- 2. Remote Switch
- 3. Audio Indicator
- 4. Whip Antenna
- 5. Wiring

Fig. 1 ME-406 ELT CONNECTION DIAGRAM

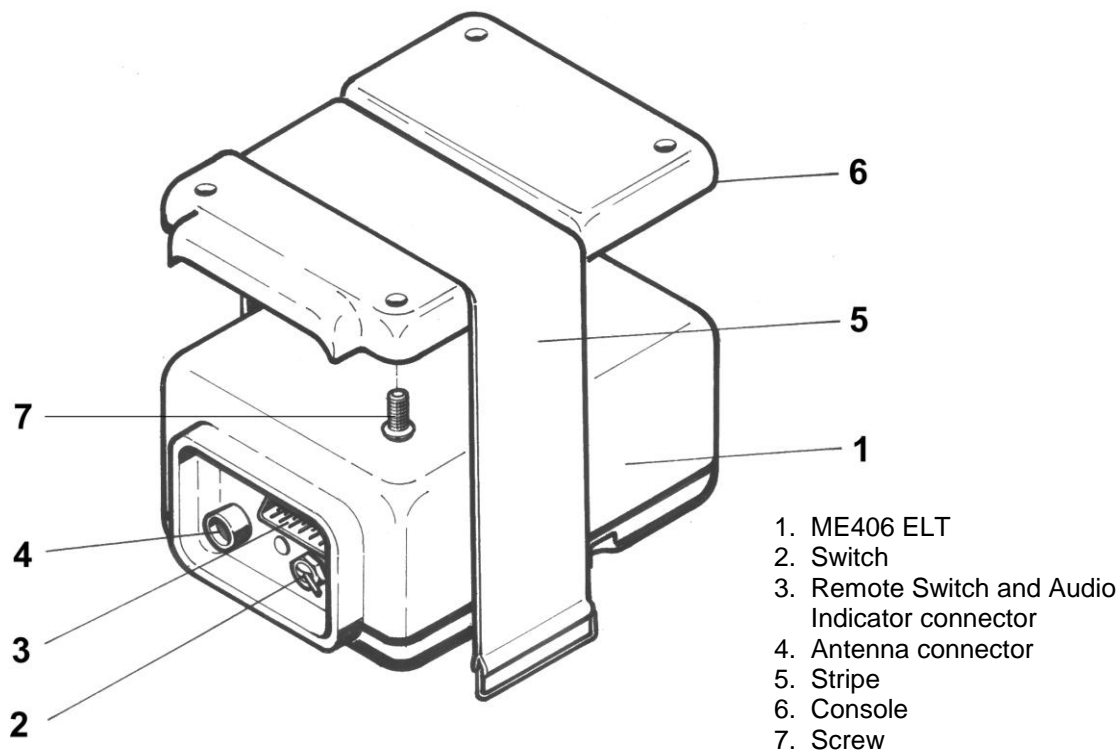


Fig. 2 ME-406 ELT

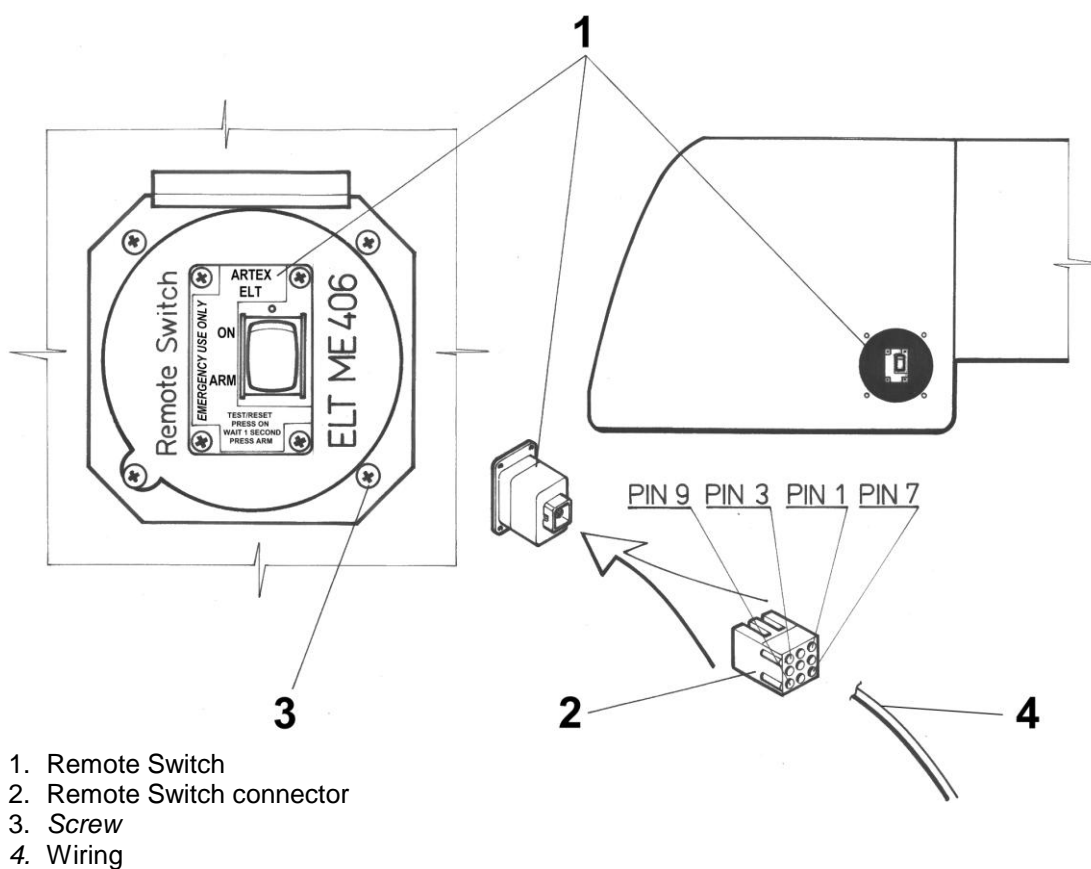


Fig. 3 REMOTE SWITCH

EFFECTIVITY: ALL

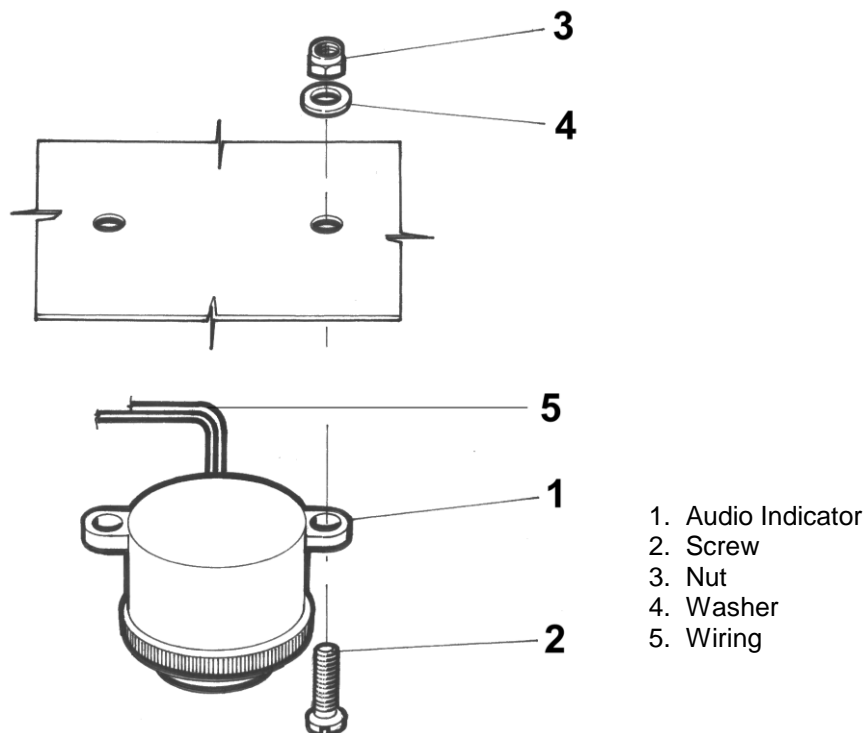


Fig. 4 AUDIO INDICATOR

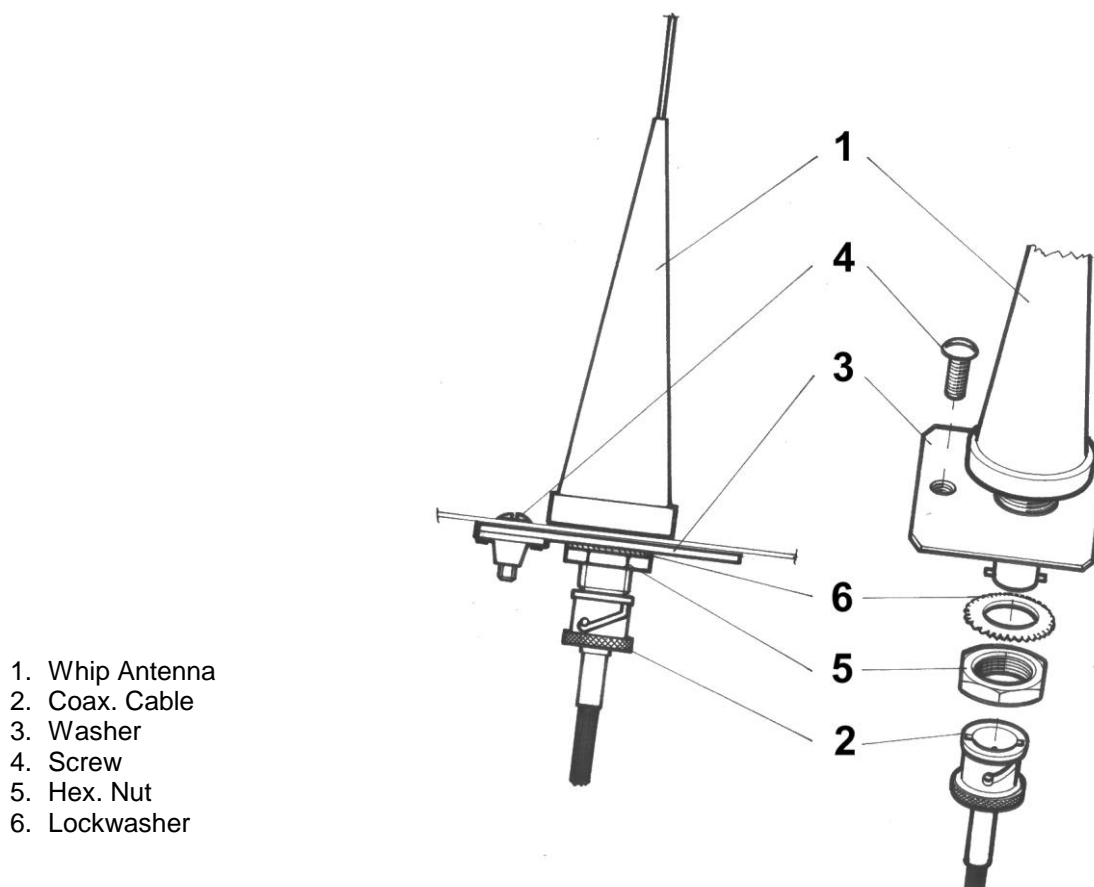


Fig. 5 WHIP ANTENNA

EFFECTIVITY: ALL

INSPECTION AND CHECK

CHECK OF ELT

Procedure:

CAUTION

THE ELT CHECK MAY BE CARRIED OUT DURING FIRST FIVE MINUTES AT THE BEGINNING OF DAILY HOURS.

THE ELT CHECK WITH ANTENNA CONNECTED SHOULD BE APPROVED AND ALLOWED BY AUTHORIZED ATC.

- a) Disconnect antenna connector from ELT.
- b) Turn MASTER, **BATTERY** and **COMM/NAV 1** switches on.
- c) Turn communication transceiver on and tune it to 121.5 MHz.
- d) Turn ELT switch from **ARMED** to **ON** position for maximum 5 seconds. Check ELT signal transmission by communications receiver, check LED flashing on ELT Control Panel and acoustics signal from Audio Indicator. Turn ELT switch back to **ARMED** position as soon as check is finished.
- e) Turn **COMM/NAV 1**, **BATTERY** and Master switches off.
- f) Connect ELT antenna to ELT.
- g) Check battery pack date of expiry and replace battery pack after one hour of operation or after a series of ELT serviceability checks.

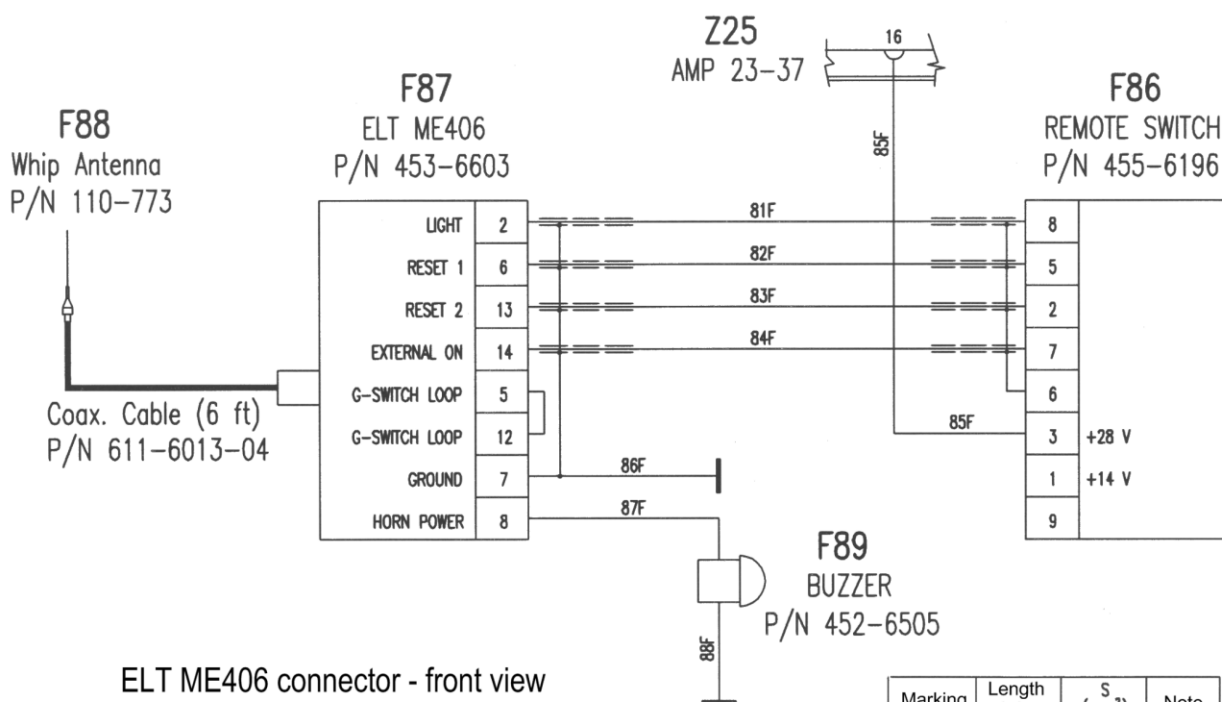
NOTE

The date of expiry is issued upon battery pack and ELT placard.

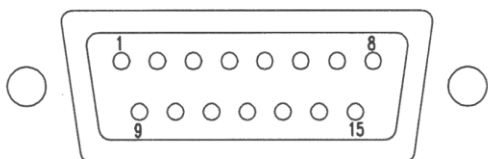
See more in the Description, Operation, Installation and Maintenance Manual for the ME-406 ELT.

EFFECTIVITY: ALL

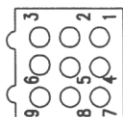
CIRCUIT CONNECTION



ELT ME406 connector - front view



REMOTE SWITCH connector - back view



Marking	Length (m)	S (mm ²)	Note
81F		0.5	AWG 20
82F		0.5	AWG 20
83F		0.5	AWG 20
84F		0.5	AWG 20
85F		0.5	AWG 20
86F		0.5	AWG 20
87F		0.35	AWG 22
88F		0.35	AWG 22