

INSTRUCTIONS FOR REPLACEMENT OF P/N 2020 BATTERY PACK IN POINTER, INC. MODEL 3000 AND 4000 SERIES ELT

INSTALLATION NOTICE: Pins "A" and "B" of the REMOTE connector of the TSO-C91A compliant ELTs (orange housing) are fused internally to protect the transmitter if the remote cable is shorted to the airframe due to crash damage. If either of these pins come in contact with metal connector shells or coax cable connectors with the transmitter MASTER SWITCH in the "AUTO" position, these fuses will be opened and the remote control functions at the panel will be disabled. It will then be required to return the transmitter to the factory for fuse replacement.

Battery Removal

1. Remove the switch guard from the unit MASTER SWITCH and move the lever to the "OFF" (center) position before disconnecting antenna and remote cables as directed in section 6.0 of the "Installation and Operations Manual".
2. Remove the ELT from the mounting bracket and remove the six Phillips head screws on the back cover of the housing. Remove the cover and neoprene gasket.
3. Unplug and remove the installed battery pack to be replaced. Do not use a screwdriver to lever the pack from the housing. Tap the flange at the bottom of the housing down **gently** over the edge of a table to dislodge the battery pack. Tap the full flange, not the fragile corners.
4. TSO-C91 units (with black housing) originally had cushioning pads attached to the interior surfaces of the battery compartment. These and all traces of their adhesive should be removed to ease installation of the new battery pack. Isopropyl alcohol is recommended.

Battery Installation

1. Make sure the unit MASTER SWITCH is in the "OFF" position. Align the molded foam battery assembly as shown in Fig. 1(b) in the compartment with the connector / pigtail in the upper left hand side. Press the foam assembly into the compartment until it is completely settled. A small amount of force will be required to press the battery into the compartment because the assembly is designed to comply with the shock and vibration requirements of the regulations.
2. Plug the battery pigtail connector into receptacle on unit wall. Position the pigtail toward the center of the unit and away from the cover screw post so that it will not be pinched during cover installation.

3. Reposition the neoprene gasket on the housing cover and install on housing. Some pressure may be required to seat the cover completely if the foam battery assembly is not completely seated in the compartment. Replace the Phillips head screws and tighten. **Do not over tighten!** Do NOT attempt to use the screws to pull the cover closed onto the gasket. The threaded inserts could be pulled out of the screw posts.
4. Apply new date sticker (included) to exterior of ELT housing.

Unit Reinstallation in Aircraft

1. Perform the pre-installation operational test described in the "Installation and Operations" manual. Install a 50 Ohm load on the antenna output connector for this test.
2. Confirm the unit MASTER SWITCH is in the "OFF" (center) position during reinstallation. Install unit in the mounting bracket and close the retaining band latch.
3. Reconnect the antenna coaxial cable and lock the connector. Reconnect the remote connector, if installed, and lock connector hood.
4. Place the MASTER SWITCH in the "AUTO" position and reinstall the switch guard. The unit can now be tested from the remote switch if installed.

FIGURE 1

