

Lifesaving Systems EO: CASA Life Preservers

Engineering Order – Installation of Whistle on Life Preserver

EO Number: EO-TLS-2025-001

Date: 01 October 2025

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Component: Life Saving Systems Vest – Bladder Assemblies (740-BT Series, 490/497-VOT Series) Classification: Minor Modification

Applicable Aircraft: Australian-registered aircraft operating under CASR Part 133

Purpose:

To install a whistle on Triton/Osprey life preserver bladder assemblies to ensure compliance with **CAO 20.11 Section 5.2**, which mandates that all life preservers used on Australian-registered aircraft be inflatable and fitted with a whistle.

Applicable Standards

- FAA TSO-C13g – Life Preservers
- CAO 20.11 – Emergency and Life-Saving Equipment
- CASR Part 21 Subpart M (for minor modification approval)
- Part 133 Manual of Standards – Schedule 21 ATSO-1C13a

Consumable Materials:

- **Whistle Cordage:** 12” piece of braided Dacron #130 or equivalent waxed cordage.
- **Elastic Webbing:** 1” wide black elastic, 5” in length.
- **Whistle:** Pea-less, non-corrosive plastic whistle (e.g., ABS or polypropylene).

Build-Up Instructions

1. Tie one end of cordage into a **Figure-of-Eight knot**, ensuring it seats securely in the whistle’s slip recess.
2. Tie a small loop (~½”) at the opposite end of the cordage.
3. Lay out the 1”x5” elastic webbing.
4. Position the cord loop at the centre of the elastic webbing.
5. Fold the elastic over the loop to create a ¾” seam.
6. Sew a **Bar-Tack seam** to secure the loop within the folded elastic, ensuring durability and retention.



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Installation Instructions

1. Confirm the knot is symmetrical and seated in the whistle recess.
2. Verify the cord is securely sewn into the elastic webbing.
3. Remove the cap from the **oral inflation tube**.
4. Slide one end of the elastic webbing over the tube and reinstall the cap.
5. Insert the whistle into the opposite end of the elastic webbing.
6. Reinstall the bladder assembly per the vest's Owner's Manual or Maintenance Procedure Card.

Compliance Statement

This modification:

- Ensures compliance with **CAO 20.11 Section 5.2**.
- Aligns with the design intent of **FAA TSO-C13g**.
- Does not affect the life preserver's buoyancy, inflation system, or retention characteristics.
- It is classified as a **minor modification** and approved under **CASR Part 21 Subpart M**.

Instructions for Continuing Airworthiness

- Inspect the whistle and tether during scheduled life preserver inspections.
- Replace whistle or cordage if damaged, missing, or degraded.
- No change to existing maintenance intervals.

*****SEE PICTURES PROVIDED BELOW*****

LIFESAVING SYSTEMS



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www.lifesavingsystems.com



Lifesaving Systems EO: CASA Life Preservers

WHISTLE W/Cord secured to Whistle and Webbing:



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Whistle and Webbing Loops secured to Oral Tube:



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Whistle and Webbing secured ready for Packing:



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