

# METRIC VANE KNOB/BOLT UPGRADE

MAY 2018

Vane Knob (#32) was redesigned in January 2016. The improved knob is metric and eliminates two smaller, finicky parts: the Vane Slot Collar (#4) and Vane Slot Sleeve (#6).

The Vane Bolt Set (#37) has also been changed to an M10 bolt set.

## RETROFIT

### 1. REMOVE PARTS:

- Old 3/8" thread Vane Knob (#32),
- Vane Slot Collar (#4),
- Vane Slot Sleeve (#6), and
- 3/8" Vane Bolt Set (#37).

*You will not need to reuse these parts.*

2. **TAP HOLE FOR M10 BOLT** - Apply a small amount of lubricant to the 10mm Tap supplied and start it into the exposed thread using fingers. Check that it is entering the existing thread correctly and square to the surface. Use a tap wrench (preferably) or other similar tool to re-cut the thread to 10mm. If you have not tapped a thread before, you may wish to get some assistance with this task.

3. **PREVENT CORROSION** – Smear Lanacote or Tef-Gel (or similar) on new thread.

4. **INSTALL NEW KNOB AND BOLT** - Enter the M10 Button Head Bolt into the new Vane Knob, from the hole on the large knob side. A Hex Key is required.

Attach the knob/bolt on the Vane Lever casting. *NOTE that the new bolt should be inserted from the opposite side of the old one.* Add nut and washer on the other side without tightening.



5. **ADJUST AND TIGHTEN NUT** - The underside of the bolt head should be almost flush with the vane base when the vane is clamped. The bolt is in the correct position when the vane can be removed easily when the knob is fully rotated anticlockwise. Check that the knob will clamp the Vane firmly in place. Once correct, firmly tighten the locking nut while holding the bolt with a 10mm Hex/Allen Key.

