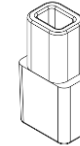


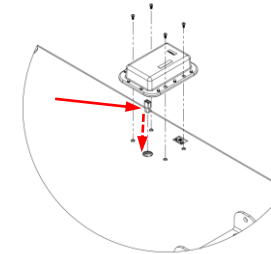
**DISCLAIMER:** The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. You must refer to the appropriate local safety codes and ensure proper electrical and electromagnetic compatibility before proceeding with the installation. All local codes shall take precedence over information in this document. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment. Communication Components Inc. disclaims any liability or responsibility for the results of improper or unsafe installation.

## Replacing a Type 17 RET actuator

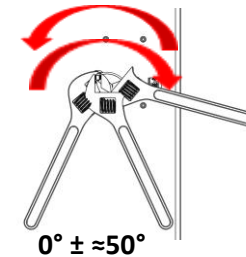
1. Remove the AISG cable from the bottom of the antenna.
2. Remove the four (Torx T20) screws holding the Type 17 RET on the antenna.
3. Remove the old (faulty) RET from the antenna, by lifting it.
4. Ensure that the Interface Key is placed in the keyway (cavity) on the antenna as shown in Figure 1.
5. Flip the Type 17 RET over and note the position of the actuator keyway (cavity).
6. Note that the Interface Key in the keyway on the antenna can be **rotated up to 100° total movement maximum**. That is, if the Interface Key is centered it can be moved from  $0^\circ \pm 50^\circ$  in the CW or CCW direction (as seen in figure 2).
7. Using an adjustable wrench move the Interface Key to match the relative position of the keyway on the Type 17 RET when it is positioned in its normal location on the antenna, while observing the limitation noted above.
8. When you believe that the Interface Key is properly positioned and you have the RET connector aligned with the connector on the antenna, then attempt to push the Type 17 RET down into place.
9. Reinstall the four Torx T20 screws. Torque the screws to  $1.6 \pm 0.1$  Nm,  $1.2 \pm 0.1$  ft-lb.
10. Reconnect the AISG cable to the bottom of the antenna.
11. The new Type 17 RET will get reprogrammed automatically from the controller upon power up.
12. Exercise the new Type 17 RET as you normally would do to verify it functions properly.
13. Set the electrical down tilt of that portion (i.e. band and position) of the antenna.



**Warning:** Interface Key is “floating,” care should be given when removing the RET that the Interface Key is not dropped or lost



**Figure 1: Place Interface Key into Antenna & Later place RET onto Antenna when connector is aligned**



**Figure 2: Align the Interface Key to match the RET Keyway (Cavity)**