Helical Antenna Mounting Instructions

Housed Antenna

- The brass inserts are designed to be the antennas preferred attachment method. M2.5 screws should be tightened to 5.3 – 5.8 inch-pounds or 0.60 - 0.66 Nm maximum.
- The SMA connector should not be used to attach the antenna. The SMA connector should be torqued to no more than 3 inch-pounds or 0.3 Nm.
- Do **NOT** use the Wrench to secure the Radome, care must be taken when torqueing the SMA connector.
- Do **NOT** use Thread Locker (such as Loctite) that compromises (deteriorates) plastic.
- Care must be taken to ensure that the screws do not bottom out in the antenna's brass inserts.
- The provided rubber O-Ring should be used.
- RTV can also be used to waterproof the antenna connector and base.

HC6XX, HC7XX and HC871
2 threaded brass inserts

HC8XX and HC9XX
3 threaded brass inserts

Embedded Antenna

- Tallysman provides a mounting ring that traps the antenna circuit board to the hosts surface See: **HCRING**.

  Embedded helical circuit boards have a notch that matches the attachment rings alignment key that secures the antenna and prevents antenna rotation.

- Two ring sizes are available:
  20 mm HC600E, HC771E, HC871E, etc.
  30 mm HC882E, HC976E, HC977E, etc.
  50 mm HC990EXF

  Each attachment ring provides four M2 molded in threaded brass inserts. M2 screws should be tightened to 2.2 – 2.5 inch-pounds or 0.25 - 0.29 Nm maximum.

- Do **NOT** use Thread Locker (such as Loctite) that compromises (deteriorates) plastic.

HCRING Top View

20mm ring **30mm ring** **50mm ring**