

TracPhone® V11 Installation Checklist



Required to validate your installation

Installation Information

Vessel Name: _____ Customer Name: _____

Antenna Serial Number: _____ Installation Date: _____
MM/DD/YYYY

Installing Technician: _____ Installing Company: _____

Installing Company Address: _____

City: _____ State/Province: _____

Postal/Zip Code: _____ Country: _____

Phone Number: _____ E-mail: _____

Installation Quality Check

Requirement	✓
Antenna Unit	
The antenna is mounted in a blockage-free area, with a clear view of the sky (360°), to the best extent possible. Location description: _____	<input type="checkbox"/>
Take digital photos of the antenna installation from all directions. Send these photos to KVH with this form.	
The antenna is mounted away from the vessel's superstructure, other antennas, and magnetic compasses.	<input type="checkbox"/>
The antenna is mounted as far away as possible from the radar and high-power radio transmitters. The antenna is located at least the minimum distance away from the radar based on radar power level and vertical separation: X-band ≤50 KW: 0.9 m at ±15°; S-band ≤10 KW: 2 m at ±40°, ≤30 KW: 3 m at ±60°, ≤50 KW: 5 m at ±60°.	<input type="checkbox"/>
The antenna is mounted on a flat, level surface/pedestal capable of supporting the antenna's weight of 109 kg (240 lbs) under all environmental conditions.	<input type="checkbox"/>
Prevention of RF radiation exposure was taken into consideration when choosing a mounting location.	<input type="checkbox"/>
The "Forward" arrow points towards the bow and is parallel to the vessel's centerline. Connectors face the stern.	<input type="checkbox"/>
Both service hatches are easily accessible to a technician.	<input type="checkbox"/>
Anti-seize lubricant was applied to all four mounting bolts.	<input type="checkbox"/>
The mounting nuts were tightened to between 35 and 40 ft-lbs (47 and 54 N-m) of torque.	<input type="checkbox"/>
If the cable access hole is underneath the antenna, foam seals were installed and are pressing against each other.	<input type="checkbox"/>
Belowdecks Equipment	
All belowdecks equipment is installed in a cool, dry location that provides good ventilation. Location description: _____	<input type="checkbox"/>
The front panels of the CommBox-ACU and modem are easily accessible to the user.	<input type="checkbox"/>
All cables are strain-relieved at the back of the CommBox-ACU and modem using the supplied bracket.	<input type="checkbox"/>
The CommBox-ACU is in a location that provides good Wi-Fi reception <i>(if customer requires wireless access)</i> .	<input type="checkbox"/>

continued on reverse

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Requirement	✓
Wiring	
Appropriate 75Ω RF cables connect the antenna to the modem (RX, TX). These cables were terminated at both ends with the correct "F" connectors using the proper tools, exactly to the manufacturer's specifications.	<input type="checkbox"/>
Cable length: _____ Cable type: _____ Connectors: _____	
The 90 cm (3 ft) LMR-400-75 pigtails are connected between the antenna and the RF cables. The pigtail connections at the antenna are protected by the rubber boots and washers.	<input type="checkbox"/>
All RF cable connections above deck are protected against seawater and corrosion using DOW Corning #4 silicone grease (inside the connectors) and silicone sealant or equivalent (outside the connectors).	<input type="checkbox"/>
RF cables are strain-relieved, protected from abrasion, and free of stress. A minimum 11.5 cm (4.5") bend radius [or 15.3 cm (6") for LMR-600-75] is maintained throughout, and service loops are present where appropriate.	<input type="checkbox"/>
The cable access hole above deck was sealed as necessary to prevent water from seeping into the vessel.	<input type="checkbox"/>
All RF cable connections were tightened to 20 in-lbs of torque.	<input type="checkbox"/>
If using LMR-600-75 cables, the 30 cm (1 ft) LMR-400-75 pigtails are connected between them and the modem.	<input type="checkbox"/>
All wiring conforms to the system wiring diagram provided in the Installation Guide.	<input type="checkbox"/>
A NMEA 0183 talker is supplying a compatible true or magnetic heading message at 4800 baud to the CommBox-ACU (compatible messages: \$--HDG, \$--HDM, \$--HDT, \$--OSD, \$--THS, \$--VHW).	<input type="checkbox"/>
Power and Grounding	
If the vessel is limited to two-phase, split-phase, or delta AC power, either (1) an isolation transformer was installed to supply single-phase power to the system, or (2) the customer granted permission to run the system on two-phase power, which will cause a small amount of leakage current onto ship's ground.	<input type="checkbox"/>
The AC power cable supplying power to the antenna is an above deck, marine-grade, 3-conductor, stranded (flexible, 8 cm (3") min. bend radius) cable suitable for carrying 500 W AC power with less than a 5% voltage drop across its length. The AC power cable and source circuit breaker comply with all applicable electrical codes and safety standards for the vessel's type and country of origin.	<input type="checkbox"/>
The circuit breaker inside the antenna (on the side of the connector module) is set to ON.	<input type="checkbox"/>
The antenna data cable, antenna power cable, and CommBox-ACU rear panel are all connected to ship's common ground.	<input type="checkbox"/>
The difference between the equipment's chassis ground and ship's ground measures less than 25 volts.	<input type="checkbox"/>
Configuration	
The latest version of CommBox-ACU/Antenna software is installed.	<input type="checkbox"/>
The administrator password, vessel name, and phone line names were set using the web interface.	<input type="checkbox"/>
No-transmit zones were configured according to the customer's requirements, to prevent RF radiation exposure.	<input type="checkbox"/>
If the customer requires Wi-Fi access, the CommBox-ACU wireless connection was enabled and security applied.	<input type="checkbox"/>
The customer's computer(s) or other network device(s) were configured for DHCP or static IP, as required.	<input type="checkbox"/>
Testing	
During startup, all system indicators on the equipment front panels and web interface showed normal status.	<input type="checkbox"/>
The system was tested by connecting to the KVH test page: http://208.83.165.11/mbbtest .	<input type="checkbox"/>
The customer was educated about the following: service activation, system operation, satellite blockage, radiation hazard, no-transmit zones (<i>if set up</i>), administrator password, CommBox™ software options, and service fees.	<input type="checkbox"/>

Please e-mail or fax this form and antenna installation photos to the KVH Airtime Services Department:
E-mail: satelliteservices@kvh.com **Fax:** +1 401 851-3823