

AgilePlans® by KVH

TracNet™ H90 Antenna and Ancillary Equipment Reshipping Instructions



The following instructions explain how to prepare a TracNet H90 antenna system, including the antenna, Hub+, and any accessories (i.e., the Thales® VesseLINK™ 200/700 system) for shipping.

Getting Help

If you need assistance, please contact KVH's Agile Orders Group at agileplansorders@kvh.com.

IMPORTANT!

These instructions assume the equipment has been removed from the vessel and that you have access to the original packaging. **If all essential components are not returned, or if the equipment is damaged and/or does not function normally, you will be billed for the cost of replacement or repairs.**

Packing Steps

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Tools Required

This procedure requires the following tools:

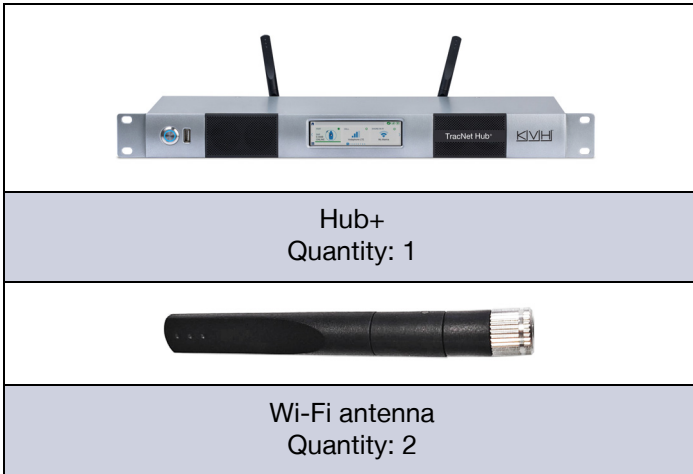
- The original packing material you received with the equipment
- Phillips screwdrivers
- Electric drill and 5/8" (16 mm) bit
- Light hammer and center punch
- 5/32" hex key
- Anti-seize lubricant
- 1/2" open-end wrench
- 1/2" open-end torque wrench set to 21 in.-lbs (2.37 N-m)
- 3/4" socket/ratchet or wrench
- 7/16" socket/ratchet or nut driver
- 3/4" socket/torque ratchet capable of settings between 35 and 40 ft-lbs (47 and 54 N-m) of torque

Figure 1: H90 Antenna System



Pack the Hub+

You **must** return the following components:



Follow the steps below to prepare the Hub+ for shipping.

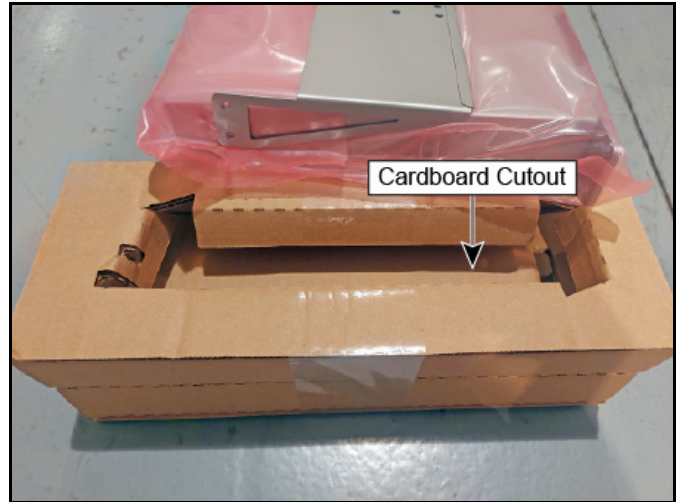
1. Remove the Wi-Fi antennas from the Hub+.
2. Cover the Hub+ with an ESD bag.
3. Place the strain relief bracket over the top of the Hub+.

Figure 2: Hub+ with Bracket



4. Line up the Hub+ with the inserts in the cardboard cutouts.

Figure 3: Hub+ Cardboard Cutout



5. Place the Hub+ in the center of the Hub+ box.

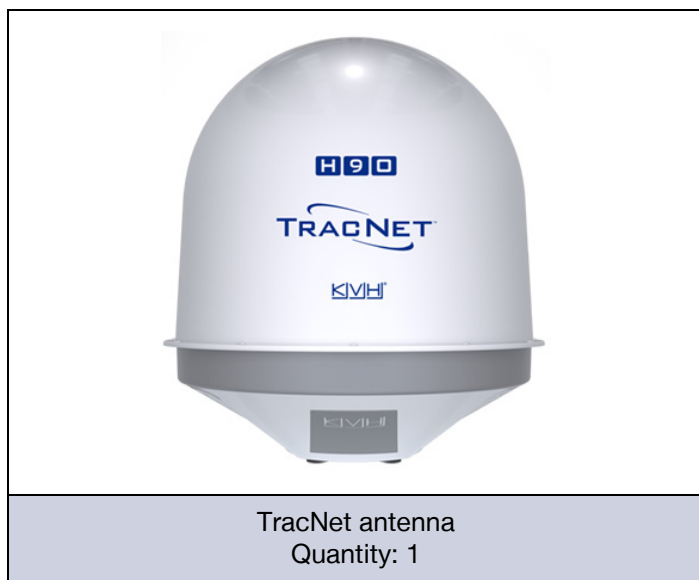
Figure 4: Hub+ in Box



6. Place the Wi-Fi antennas in a sealed ziplock bag and place the bag on top of the Hub+.
7. Set aside any other accessories to be packed at a later time.
8. Close and seal the box.
9. The Hub+ is now ready to pack with the antenna as described in [“Pack the Antenna” on page 3](#).

Pack the Antenna

You **must** return the following components:



Follow these instructions to prepare the antenna for shipping.

Prepare the Pallet

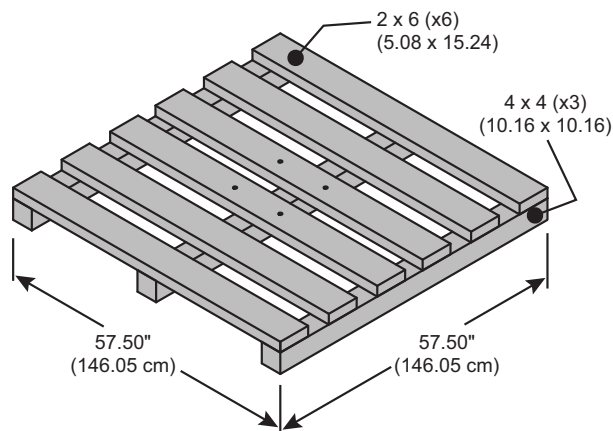
If the original shipping pallet is not available, follow these instructions to prepare a replacement pallet.

IMPORTANT!

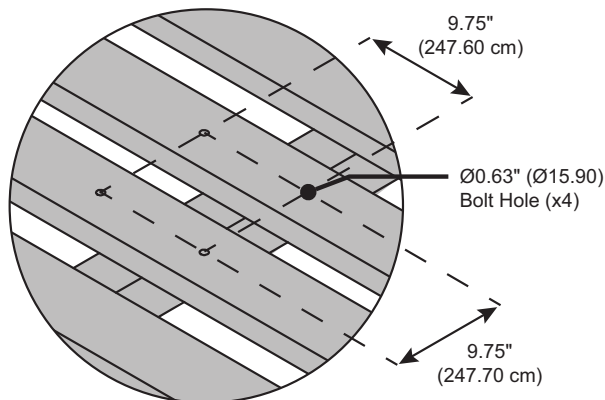
Ensure that the replacement shipping pallet is strong enough to support the weight of the antenna (240 lbs (109 kg)) and that its measurements meet or exceed the dimensions.

1. Using a light hammer and center punch, mark the locations for the four mounting bolt holes in the pallet.
2. Drill a 5/8" (16 mm) hole at the four mounting bolt hole locations. Later, you will insert four 1/2"-13 bolts through these holes to secure the antenna to the shipping pallet.

Figure 5: Minimum Replacement Pallet Dimensions



Bolt Hole Close-Up

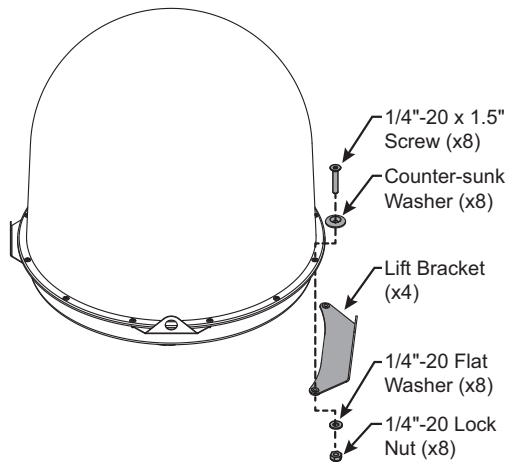


Attach the Antenna to the Pallet

Follow the instructions below to hoist the antenna and attach it to the shipping pallet.

1. Using eight screws, flat washers, and lock nuts, secure the four lift brackets to the antenna. Use a 5/32" hex key to keep the screws from turning, and use a 1/2" open-end torque wrench to tighten the nuts to 21 in.-lbs.

Figure 6: Attaching the Lift Brackets



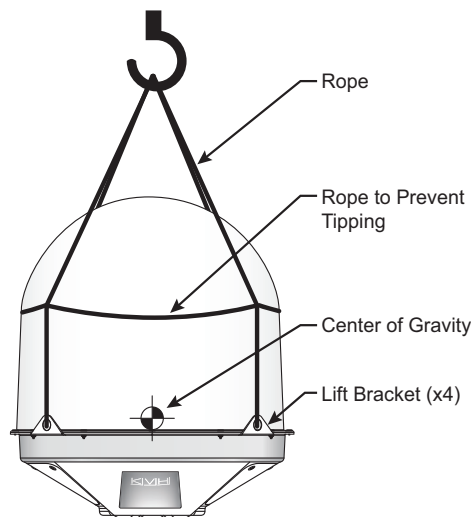
2. Secure the crane rigging to the antenna's four lift brackets. Be sure the rigging and crane are suitably rated to safely lift the 240 lbs (109 kg) antenna.



WARNING

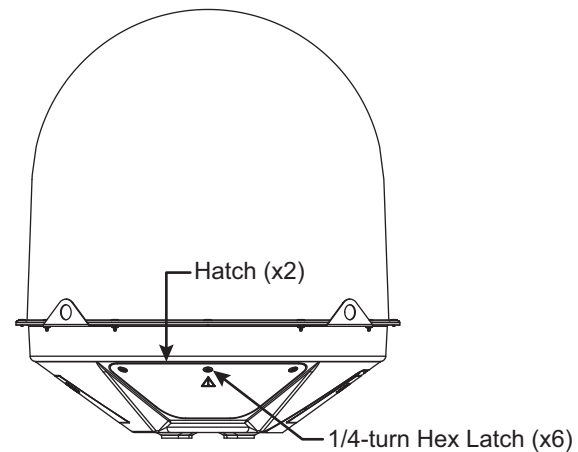
Be sure no personnel stand underneath the antenna at any time while it is suspended in the air.

Figure 7: Crane Rigging (Example)



3. Carefully hoist the antenna to the shipping pallet's location.
4. Position the antenna over the holes drilled in the shipping pallet. Then carefully lower the antenna onto the pallet and ensure the mounting holes are aligned.
5. Using a 7/16" socket/ratchet or nut driver, unlock the three hex latches securing each of the antenna's service hatches. Then gently lower the hatches.

Figure 8: Service Hatch



- At each of the four antenna mounting holes, place a 1/2" flat washer on a 1/2"-13 bolt (*apply anti-seize lubricant to the threads*). Insert the bolt into the hole from above and a 1/2" T-nut from below.



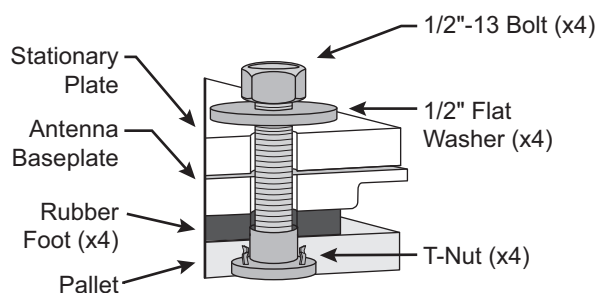
CAUTION

Observe the safe handling instructions in the safety data sheet (SDS) provided with the anti-seize lubricant.

IMPORTANT!

Make sure the bolt is long enough to fully engage the threads of the T-nut but does not protrude through the bottom of the T-nut.

Figure 9: Mounting Bolts (Side View)



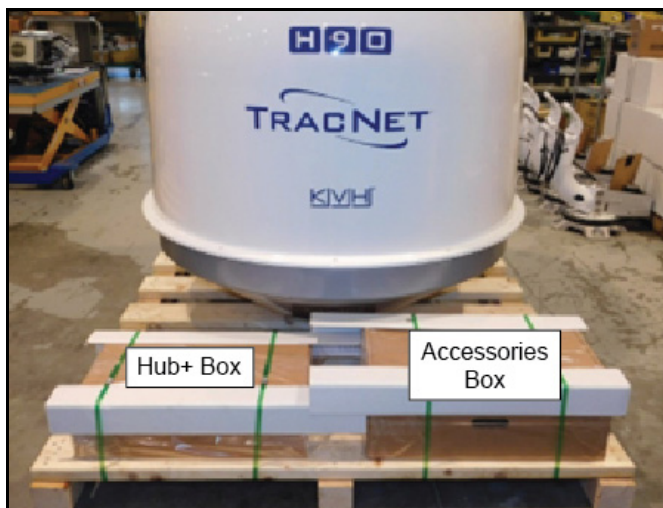
- Secure each bolt through the shipping pallet and into the T-nut until the T-nut bottoms against the shipping pallet.
- Tighten the mounting bolts in a cross pattern until the four rubber feet on the baseplate are bottomed against the shipping pallet. KVH recommends you tighten the nuts to between 18 and 20 ft-lbs (24 and 26 N-m) of torque.
- Disconnect the crane rigging.
- Close both antenna service hatches. Secure each service hatch using the three hex latches (see [Figure 8 on page 4](#)).
- On a weather-protected, adhesive label, clearly write the RMA number and attach it to the radome.

Attach the BDU and Accessories Boxes to the Pallet

Follow the instructions below to attach the BDU and accessories boxes to the shipping pallet.

- Place any accessories in the accessories box.
- Close and seal the accessories box. Seal the Hub+ and accessories boxes with bag sealers and place the boxes onto a vacant area of the shipping pallet.
- Place edge protectors on the top edges of the boxes and strap the boxes to the pallet using polyester strapping.

Figure 10: Hub+ and Accessories Boxes on Shipping Pallet







Using Incoterms DDP, ship the antenna and Hub+ to the address provided by the KVH Agile Orders Group.

Shipments received without an RMA number will be returned to you at your expense.

Pack the VesseLINK 200 (if applicable)

The following items must be returned:

		
<p>Above Deck Unit (ADU) Quantity: 1</p>	<p>Below Deck Unit (BDU) Quantity: 1</p>	<p>AC-DC Power Supply Quantity: 1</p>
		
<p>Wi-Fi antenna Quantity: 1</p>		

Follow the instructions below to prepare the VesseLINK 200 for shipping.

1. Place the BDU in the foam cutout in the BDU box.

Figure 11: BDU in Foam Cutout



2. Cover the BDU with the layer of protective foam. Then close and seal the box.

Figure 12: BDU in Protective Foam



3. Place the ADU in the center of the ADU box. Make sure it is seated in the cutout in the base.

Figure 13: ADU Centered in Box



4. Place the cardboard collar over the top of the ADU. Then close and seal the box.

Figure 14: ADU Cardboard Collar



5. Place the BDU box in the bottom of the shipping box.

Figure 15: BDU Box Placed in Shipping Box



6. Place the ADU box, power supply, Wi-Fi antenna, and power cable on top of the BDU box in the shipping box.

Figure 16: ADU, Power Supply, and Wi-Fi Antenna Placed in Box



7. Secure all the items in the box with ample packing paper or bubble wrap. Then close and seal the shipping box.

Figure 17: Packing Material






8. On the outside of the shipping box, clearly write the RMA number.

Using Incoterms DDP, ship the VesseLINK 200 system to the address provided by the KVH Agile Orders Group.

Shipments received without an RMA number will be returned to you at your expense.

Pack the VesseLINK 700 (if applicable)

The following items must be returned:

		
Above Deck Unit (ADU) Quantity: 1	Below Deck Unit (BDU) Quantity: 1	AC-DC Power Supply Quantity: 1
		
Wi-Fi antenna Quantity: 1		

Follow the instructions below to prepare the Thales VesseLINK 700 system for shipping.

1. Place the ADU in the center of the ADU box. Make sure it is surrounded by protective foam.

Figure 18: ADU Protected in Foam Base



2. Cover the ADU with the layer of protective foam. Then close and seal the ADU box.

Figure 19: ADU in Protective Foam



3. Place the BDU in the foam cutout in the BDU box.

Figure 20: BDU in Foam Cutout



4. Cover the BDU with the layer of protective foam. Then close and seal the box.

Figure 21: BDU Protective Foam



5. Place the ADU box in the bottom of the shipping box.

Figure 22: ADU Box Placed in Shipping Box



6. Place the BDU box, power supply, Wi-Fi antenna, and power cable on top of the ADU box in the shipping box.

Figure 23: BDU, Power Supply, and Wi-Fi Antenna Placed in Box



7. Secure all the items in the box with ample packing paper or bubble wrap. Then close and seal the shipping box.

Figure 24: Packing Material



8. On the outside of the shipping box, clearly write the RMA number.

Using Incoterms DDP, ship the VesseLINK 700 system to the address provided by the KVH Agile Orders Group.

Shipments received without an RMA number will be returned to you at your expense.