

INSTALLATION GUIDE FOR COLLINEAR ANTENNAS F2 MODELS

WARNING:

For your safety, do not install any antenna near power lines, and carefully follow all installation instructions. If the antenna falls toward or contacts any overhead wires, immediately let go and stay away. Call the utility company for assistance. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

IMPORTANT - BEFORE ASSEMBLING AND MOUNTING:

Carefully read these instructions and study the diagrams. Check to make sure you have all parts. Both clamps must be installed and properly spaced to prevent antenna rotation from wind load.

PARTS LIST

- (1) Antenna assembly
- (1) Jumper RG-213 N-male to N-male 24"
(provided only with N-terminated antennas)
- (1) ANTC485 clamp kit

Clamp Kit Contents (Figure 1):

- (2) Clamp plates
- (2) 3/8"-16 stainless U bolts
- (4) Hex nuts
- (4) Lock washers
- (1) Anti-seize compound

Figure 1: ANTC485 Clamp Kit

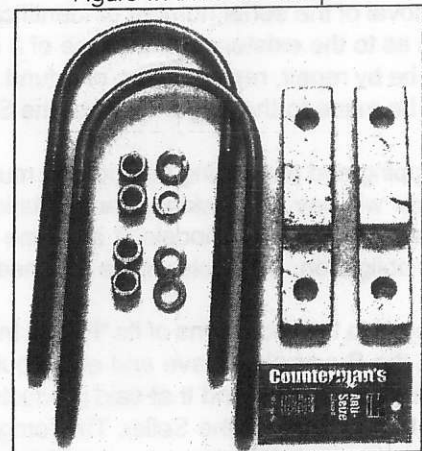
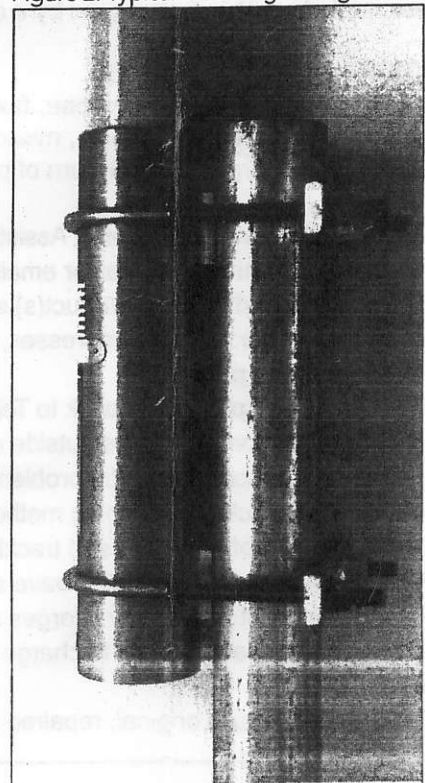


Figure 2: Typical Mounting Configuration



MOUNTING INSTRUCTIONS

1. The welded mounting rails are intended to be placed against the support structure when used with the supplied clamp set. When using an ANTC483 or other clamp set, the mounting rails should be turned to one side, out of contact with the support.
2. Apply anti-seize compound to ends of u-bolts. Place a loosely assembled clamp over the top of the mast. Feed the antenna base ferrule down through the clamp until aligned with the upper attachment point. Tighten down the hex nuts and straighten the antenna until clamped into a vertical position.
3. Attach and secure the lower antenna clamp with supplied hex nuts and lock washers, to provide reasonable pressure to the support structure and antenna base ferrule (Figure 2).
4. The antenna input connector is a Type N or 7-16 DIN Female. A 24" N-male jumper is provided for antennas with N input. Connect RF feed cable terminated with Type N or 7-16 DIN as required to antenna input connector. Secure all cables with cable ties.
5. Be sure to properly seal the input connector with waterproof tape or other sealing material. See Telewave TWDS-0502 for a recommended method of connector sealing.

TELEWAVE, INC.

PRODUCT WARRANTY

Products sold by Telewave, Inc. and covered by this Warranty are warranted to be free from defects in material and workmanship at the time of and for the period specified below after delivery to the Buyer. Seller's entire warranty obligation is limited to making adjustments by repair, replacement, or refunding the purchase price of any product which is returned to the Seller as provided below within the specified period from the date of shipment by the Seller. In no event shall Seller be liable for direct, special, or consequential damages for breach of warranty.

WARRANTY PERIODS:

Antennas and mounting hardware: 5 years

All other products: 1 year

Adjustment will not be allowed for products which have been damaged by lightning, subjected to abuse, improper application or installation, alteration or accident, or negligence in use, storage, transportation or handling. Alteration or removal of the serial number or identification markings voids the Warranty. Seller shall have the right of final determination as to the existence and cause of a defect, whether adjustment will be allowed, and if allowed, whether adjustment will be by repair, replacement, or refund. Where adjustment is not allowed, a charge of 5% of the original purchase price will be made to the Buyer to cover the Seller's cost of inspection and handling.

Shipping and packaging instructions must be obtained from the Seller before products are returned for adjustment. The Buyer will pay for packing, transportation, and transit insurance costs for returned products. The Seller reserves the right to discontinue models at any time or change specifications, design, or price without notice and without incurring any obligation. Products will be returned to the Buyer with transportation cost collect.

Subject to the provisions of its "Patent Indemnity" clause, the Seller also warrants that it has the right to sell its products, that the Buyer shall have and enjoy quiet possession thereof as against any lawful claims existing at the time of the sale by the Seller, and that said products are free from any charge of encumbrance in favor of third persons existing at the time of sale by the Seller. The foregoing constitutes the Seller's entire warranty, express, implied or statutory with respect to its products and states the full extent of its liability for breach of Warranty and for damages, whether direct, special or consequential resulting from any such breach. No change whatsoever thereto shall be binding upon the seller unless made in writing and signed by a duly authorized representative of the Seller.

RETURN / RMA PROCEDURE:

Please contact Telewave via phone, fax, or email to discuss any product issues with a sales engineer. Many issues occur due to incorrect installation, misconfiguration or irregularities within an existing system, and these can often be resolved at no charge without return of products.

1. Contact Telewave for Technical Assistance at sales@telewave.com or 1-800-331-3396.
2. Telewave will transfer the call or email to the appropriate department.
3. If it is determined that the product(s) should be returned, the Telewave RMA Dept will ask customer to provide billing and return shipping addresses, product model and serial number (if applicable), date of purchase, and where item was purchased.
4. Customer ships product(s) back to Telewave at customer's expense:
 - Write RMA number on the outside of the box(es)
 - Include a description of the problem with the product(s)
 - Ship via a trackable shipping method (UPS, Fedex, etc.)
 - Retain proof of shipment and tracking information
5. Product(s) are received by Telewave and evaluated by the appropriate department. Customer is contacted by RMA department before any charges are incurred.
6. Telewave reserves the right to charge for parts, labor, and freight in the event that the issue is not covered under warranty.
7. Telewave will return original, repaired or replacement item at customer's expense unless covered by warranty.