



5-ELEMENT VEHICLE ANTENNA, TEMPORARY MOUNT

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This fully assembled 5-element antenna has been designed to fit easily across the cab top of any vehicle. It can be installed in minutes, removed in the time it takes to loosen nylon straps, and the only equipment needed is a **7/16" wrench**.

The 5-element antenna has been mounted on 1/2" oxboard, coated with urethane sealer for outdoor usage.

CAUTION: Open the 5 elements of the antenna **ONLY AFTER** the mounting has been fully secured on cab roof.

CAUTION: The antenna's contact with power lines can result in serious injury or death.

CAUTION: The antenna should be **USED ONLY WHEN** the VEHICLE IS STANDING STILL. Be sure the antenna has been fully lowered into roof rack before the vehicle moves. Speed and obstacles can harm the antenna's lightweight drawn aluminum.

Directions for **INSTALLATION:**

0. Before placing antenna on vehicle roof, attach a foot pad to the bottom of each molded foot (see items in bubble pack). Then attach 4 molded feet to each end of bars that support the antenna platform. Align the foot holes with holes at end of bars. Run #10-24 x 1 3/4" long screws through holes, tighten down with 1/4"-20 carriage bolts and #10-24 lock nuts.
0. Place unit across cab top so that crank (located under board) hangs over left side of vehicle, next to driver's window.
0. Center the mounting board. The roof brackets can be adjusted (see nut and bolt beneath brackets) so that the mounting board slides one way or another until balanced on the roof. The molded feet should be placed to the outside on roof as far as possible to prevent 'oil canning' of roof.
0. Lengthen the runners beneath the board, if necessary, to fit the width of your vehicle's cab top. To lengthen, use a 7/16" wrench to loosen the channel clips (these are silver colored with 2 nuts and bolts) on both runners. The inner channel will telescope or stretch out. When the mounting board has been lengthened sufficiently, tighten the channel clips at the appropriate spot.
0. Set the gutter hooks where they need to be **in the gutters**. Make these gutter hooks taut on one side by pulling nylon strap. For final securing of the mounting board, tighten nylon straps on both sides, and then tie off loose ends.
0. **CAUTION:** Check tightness of all straps and fasteners periodically.

Directions for **OPERATION:**

0. While the antenna is resting in its roof rack, loosen the wing nuts on each of the 5 elements. Open each element half, beginning with the front or "director" pair nearest crank. When the elements are in the unfolded position, tighten the wing nuts to hold them in place.
0. Now connect the antenna with your receiver inside the vehicle. Do this by mating the BNC male plug of the 10-foot coaxial cable to the female BNC jack on the antenna's "driven" element (second from rear end). Then run the cable through a front or back window. Plug the other end of the coaxial cable to the receiver's antenna jack. Turn on receiver and tune in transmitter signal.
0. To **RAISE** the antenna **while sitting in vehicle**, use your left hand to pull crank down and turn **COUNTER-CLOCKWISE** until resistance is met. NOTE: FORCE IS NOT REQUIRED.

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0. When antenna has been fully raised, turn crank in opposite direction 1/2 turn; then push crank up while turning crank in **COUNTER-CLOCKWISE** direction. This will engage the rotate pin.
0. To **ROTATE** antenna, turn crank **COUNTER-CLOCKWISE** to the stop. The antenna will have turned 360 degrees.
0. To get the antenna "in-line" and ready for lowering, turn the crank **CLOCKWISE** to the stop. The crank handle will be in the same position as before antenna rotation.
0. To **LOWER** antenna, pull crank down to disengage rotate pin. Then turn crank **CLOCKWISE** until resistance is felt and you hear the antenna contact the roof travel-support rack.
0. Before traveling any great distance and/or at high speed, fold antenna elements. This will protect the lightweight drawn aluminum antenna parts from wind damage. Loosen wing nuts to the top of their travel. Then fold each element half rearward along the boom, beginning with the first or "director" pair at front of antenna. Run wing nuts to the bottom of their travel.

Directions for **REMOVAL**:

0. Make sure that antenna has been lowered into travel-support rack and that its 5 elements have been folded rearward along the boom. Run wing nuts to the bottom of their travel.
0. Detach coaxial cable's BNC connectors from antenna and receiver. Store cable with care.
0. Loosen the nylon straps to free the gutter hooks. Lift the complete antenna mount from the vehicle roof.

TROUBLESHOOTING: problems and remedies

0. If you have difficulty in pushing the crank up and down, be sure that, after raising the antenna, you always "back off" the crank handle in the opposite direction for about half a turn before pushing the handle up to the rotate position.
0. If there is difficulty in rotating antenna, make sure that your coaxial cable is 4 feet long. If too short, the cable may prevent full rotation; if too long the cable loop may catch on rooftop. Also check to make sure the antenna is not too close to a tree limb, etc.; this may prevent sufficient clearance for the base to rotate fully.
0. A non-raising antenna is usually caused by a stripped worm gear (#10294) and/or worm (#10300) shown in Figure 1. Gears are usually damaged by turning the crank in the wrong direction when raising the antenna or when a heavy blow from a tree limb to a raised antenna strips either or both gears. For this reason, we advise driving with the antenna in a lowered position. A new worm gear (#10294) is easily replaced after removing the gear cover (#12662) and withdrawing the drive axle (#122394). The worm may be replaced by removing the pin (#80405) at the top of the worm and then partly withdrawing the shaft downwards until it is clear of the worm. The damaged worm may then be removed and replaced. **CAUTION:** Do not lose the worm washer (#80233), which is positioned just below the worm.
0. Because a vehicle transports the mounted antenna to various locations, reception of transmitter signal may be inconsistent. Also, the distance and type of terrain between your mounted antenna and the transmitter wearer will influence the signal reception.

NOTE:

During the first installation, the 5-element antenna will have been adjusted to fit a particular vehicle. It is now ready for repositioning on the same vehicle at a moment's notice.

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