

ARCHER®

MAGNETIC MOUNT MOBILE ANTENNA

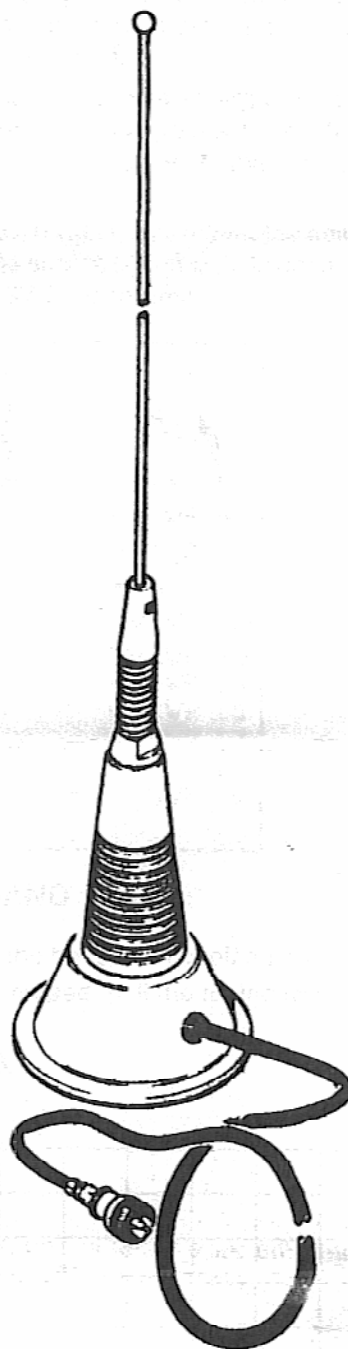
INSTALLATION INSTRUCTIONS

In some installations, the distance from your antenna to your CB might be greater than the length of the supplied coaxial cable. You will find cable and connectors suited to your needs at your local Radio Shack store.

1. Choose a clean, flat magnetic metal surface for your antenna location. Place the base assembly in the desired position.
Note: Do not mount your antenna on a vinyl-covered surface.
2. Route the coaxial cable from the base assembly to your CB. Be sure that the cable does not catch in doors or windows.
3. Connect the PL-259 connector to your CB.
4. Be sure to tightly screw the spring assembly to the load coil. Then screw the load coil onto the base assembly.
5. Insert the tuning rod into the spring assembly and tighten the set screw with the supplied Allen wrench. The antenna is ready for operation.

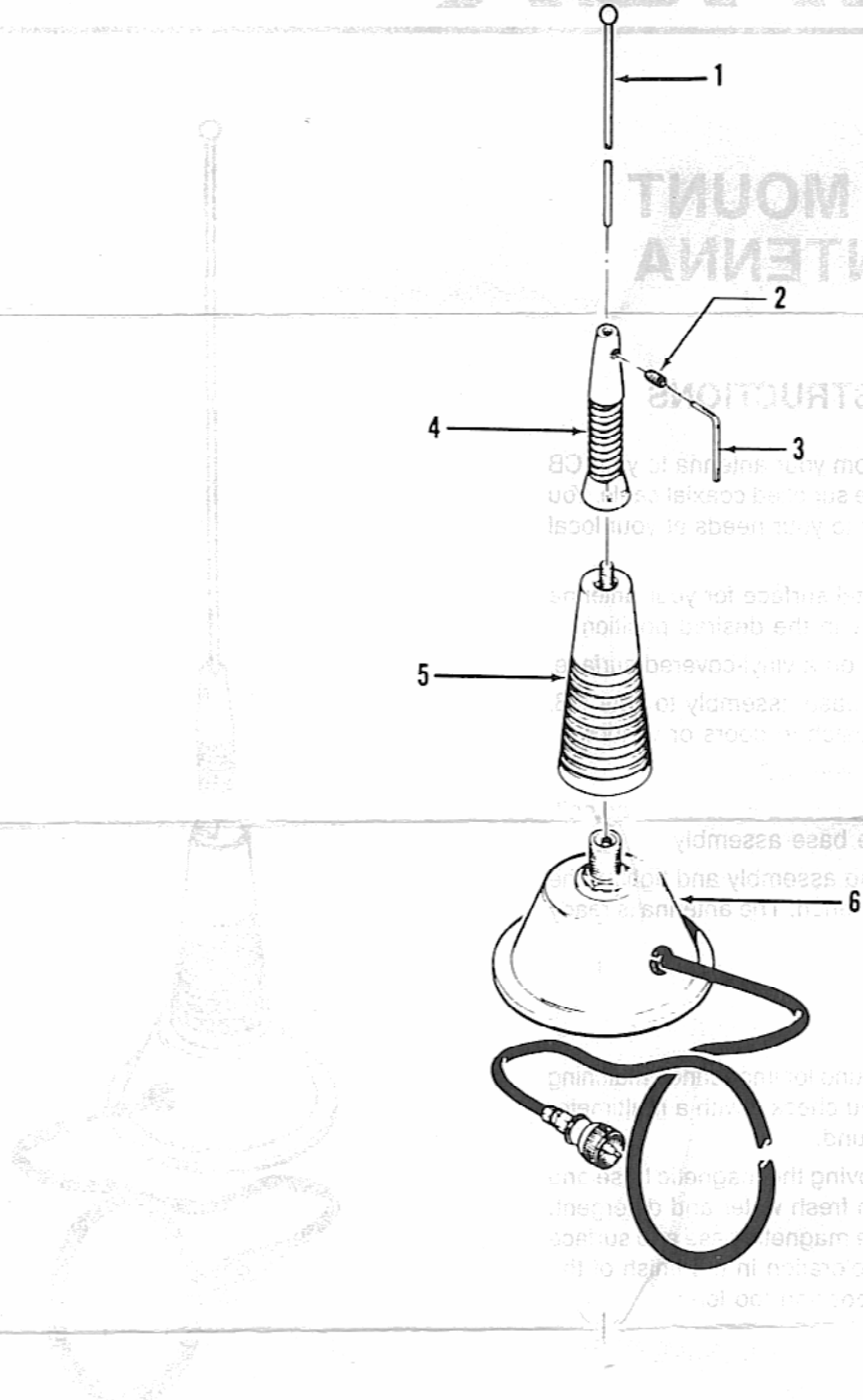
Notes:

- The coil in this antenna is shunt wound for impedance matching and static noise suppression. If you check it with a multimeter (VOM), it indicates a short to ground.
- We recommend occasionally removing the magnetic base and cleaning the contact surfaces with fresh water and detergent. Condensation trapped between the magnetic base and surface of the vehicle might cause a discoloration in the finish of the vehicle if the base is left in one position too long.



CAT. NO. 21-940A

MOBILE ANTENNA MAGNETIC MOUNT



PARTS LIST

Description	Quantity	Part Number
(1) Tuning Rod (Whip)	1	5-0082-9
(2) Set Screw	1	15-0030-1
(3) Allen Wrench	1	15-0024-1
(4) Spring Assembly	1	5-0451-1
(5) Load Coil	1	5-0271-3
(6) Base Assembly	1	5-0268-1

TUNING YOUR ANTENNA

We designed your antenna for full 40-channel operation. To be sure that your antenna works with a minimum standing wave ratio (SWR) on all channels and in combination with all types of vehicles, we allowed extra tuning rod length for proper tuning.

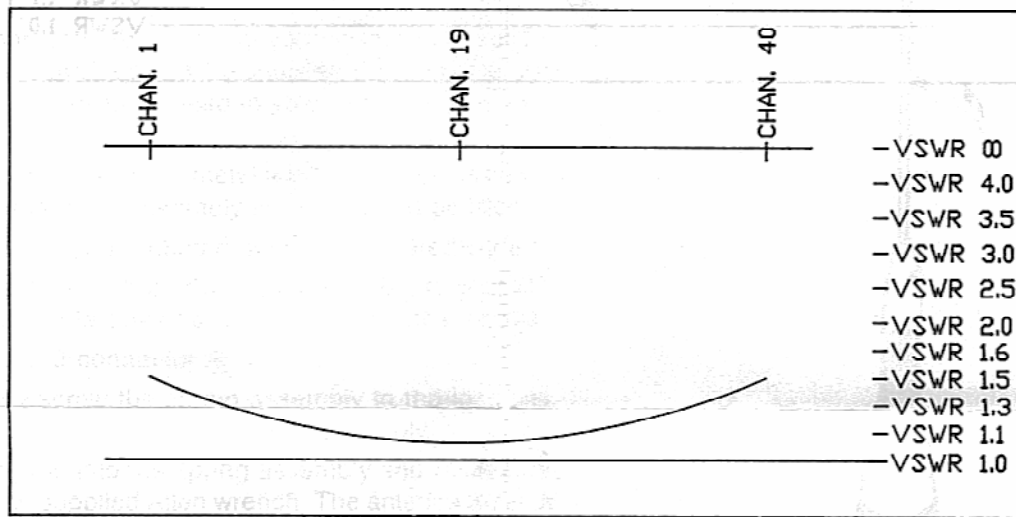
You need an SWR meter to properly tune your antenna. Radio Shack stores sell many CB accessories, including SWR meters.

1. Connect the SWR meter between the transceiver and the antenna cable as described in the meter's instructions.
2. Measure the SWR on the lowest and highest channels.

3. If the reading is higher on the lowest channel, lengthen the antenna by loosening the set screw and pulling the tuning rod out of the coil about 1/8 inch. If the SWR reading is higher on the highest channel, remove the tuning rod from the coil and cut 1/8 inch from its lower end.

You can cut the tuning rod with large wire cutters or use a file to make a small groove around the tuning rod and break off the piece or cut the tuning rod with a hacksaw.

4. Measure the SWR again and repeat the adjustment, if necessary. Be sure to cut off only 1/8 inch at a time, checking the SWR each time.



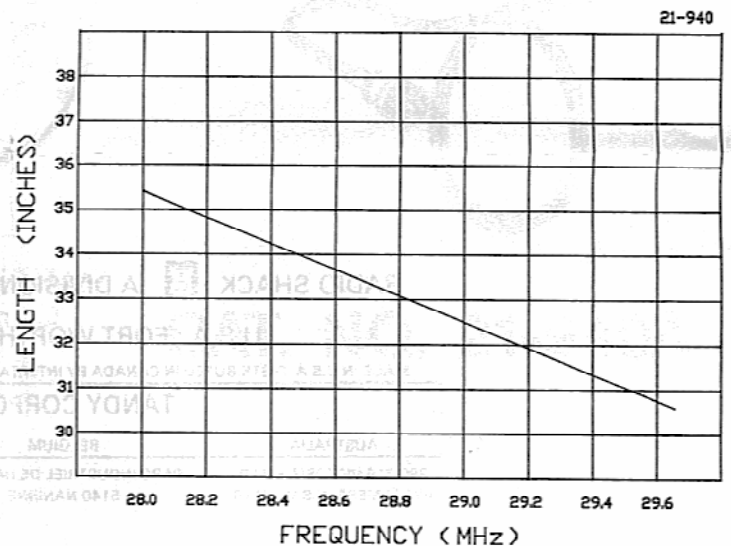
TUNING FOR THE 10-METER HAM BAND

You can tune your antenna to operate on part of the 10-meter band using a 10-meter band amateur radio transceiver. Your antenna's bandwidth is 1200 kHz (1.2 MHz), and it can handle a total power of 25 watts. Use the chart to determine the length to which you need to cut the tuning rod for a specific center frequency.

1. Determine the center frequency of the portion of the 10-meter band you wish to operate on. For example, if you wish to operate from 28.1 MHz to 29.3 MHz, the center frequency is 28.7 MHz.
2. Cut the tuning rod to the length indicated for the frequency in the chart. For example, the length is about 33 1/4 inches for 28.7 MHz.
3. Connect an SWR meter (such as Radio Shack's CB SWR meter) between your antenna and the transceiver.
4. Measure your system's SWR on the center frequency.
5. Loosen the set screw and pull the tuning rod out about 1/8 inch.
6. Measure your system's SWR again.

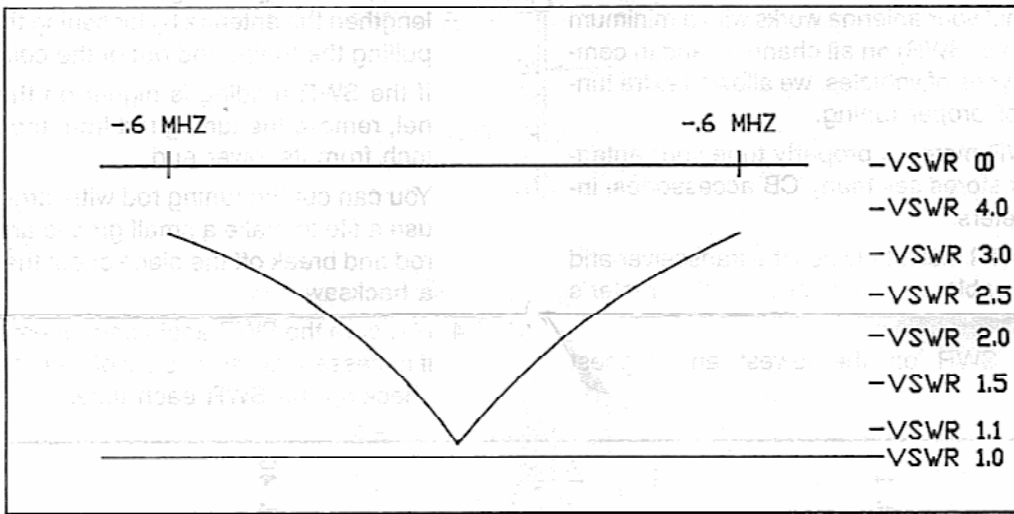
remove it from the base and cut off another 1/8 inch. If the SWR decreased, pull the tuning rod out about 1/8 inch.

7. Repeat Step 6.



If the SWR increased, return your antenna to its previous position. If the antenna is fully inserted,

TUNING YOUR ANTENNA



TUNING FOR THE 10-METER BAND

RADIO SHACK  **A DIVISION OF TANDY CORPORATION**

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