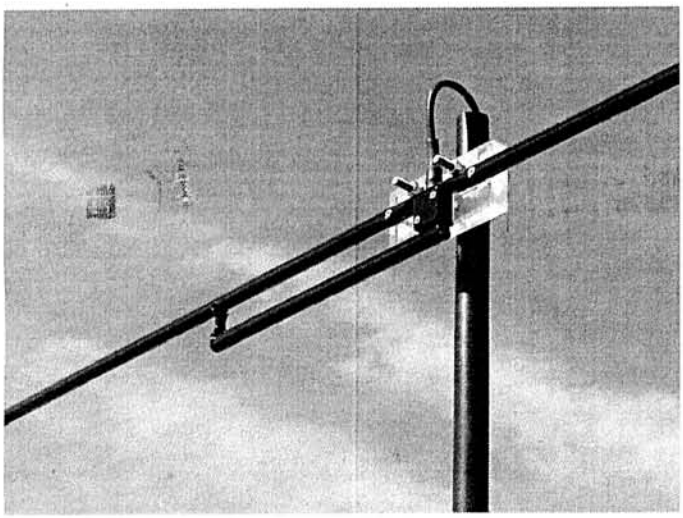
SE Engineering

SE 879

FM Stereo Antenna



Warning: When You install your antenna, use extreme caution. If the antenna starts to fall, let it go! It could contact overhead power lines. If the antenna touches the power line, contact with the antenna, mast, cable, or guy wires can cause electrocution and death. Call the power company to remove the antenna. DO NOT attempt to remove it yourself.

DESCRIPTION

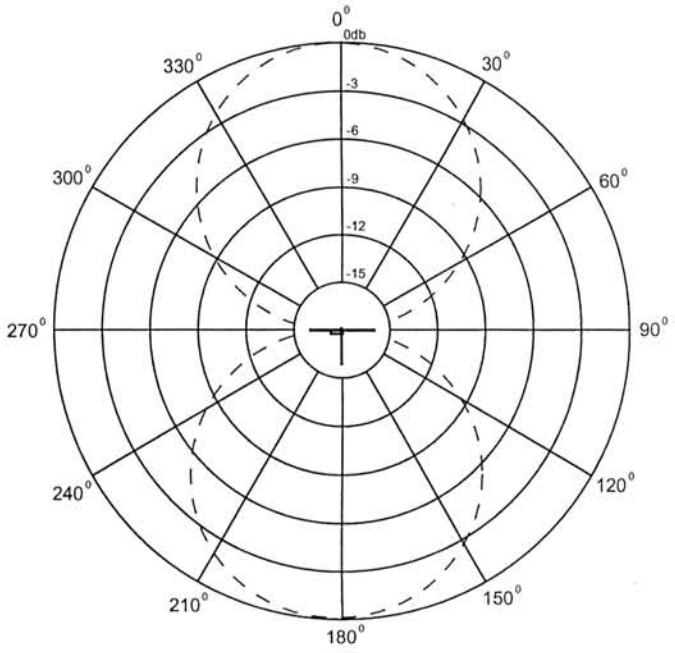
The SE Engineering model SE 879 is one of the finest high efficient horizontal polarized bidirectional FM stereo receiving antenna ever made.

Despite its modest cost the SE 879 is very durable and will withstand some of the most adverse weather conditions without effecting performance. This makes the SE 879 an excellent choice for commercial as well as residential use.

TECHNICAL INFORMATION

What makes the SE 879 out perform most other antennas? It's the gain to multipath rejection ratio. Multipath rejection is due to the sharp unwanted signal cut off in the antenna's reception pattern. Premium copper nickel alloy is used in the receiving element.This alloy will induce strong magnetic fields throughout the FM band. A special epoxy undercoat with a high quality polyurethane overcoat reduces static and seals against moisture for crystal clear reception. All of the hardware is made out of the finest quality stainless steel to resist rust and corrosion for many decades to come.

SE 879 RECEPTION PATTERN



www.seengineer.com

In the box you will find the following items:

1. High quality FM Stereo Antenna 1 pcs
2. Cleat 1 pcs
3. U-bolt 1 pcs
4. 3/8-16 nuts 2 pcs
5. 3/8 flat washers 2 pcs
6. 3/8 lock washers 2 pcs
7. Instruction manual 1 pcs

BEFORE YOU BEGIN

Before you begin read all installation instructions and follow all safety recommendations in accordance with The U.S. Consumer Product Safety Commission.

INSTALLATION

There are many ways to install your SE 879. It is recommended that the antenna be installed horizontally shown in Fig. 1. The eave mount method is the most practical and recommended . You don't have to get on the roof . All that is needed is a simple step ladder to access all parts of the antenna and eave mount. The SE 360 eave mount kit can be ordered directly from the factory (530-357-3126). You will need a standard antenna mast (not included) from SE Engineering (SE 187). The mast is not to exceed 10' in length.

TOOLS NEEDED:

1. Step Ladder
2. 7/16" Box Wrench
3. 7/16" Open End Wrench
4. 1/2" Box Wrench
5. Slotted Screwdriver
6. Phillips Screwdriver
7. 3/16" Masonry Drill

NOT INCLUDED:

1. RG-6 Coax
2. Weather Boot
3. Mast
4. Mounting Kit
5. 75 Ohm Break-Out or 300 Ohm Transformer
6. Grounding Kit

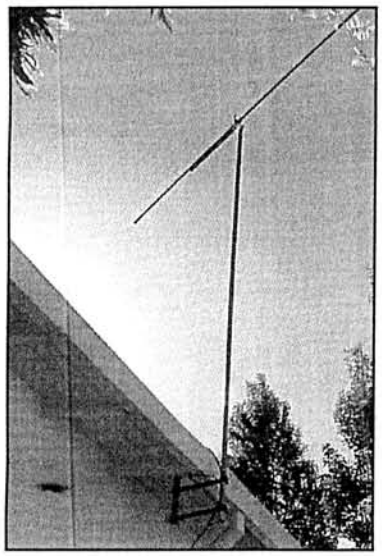
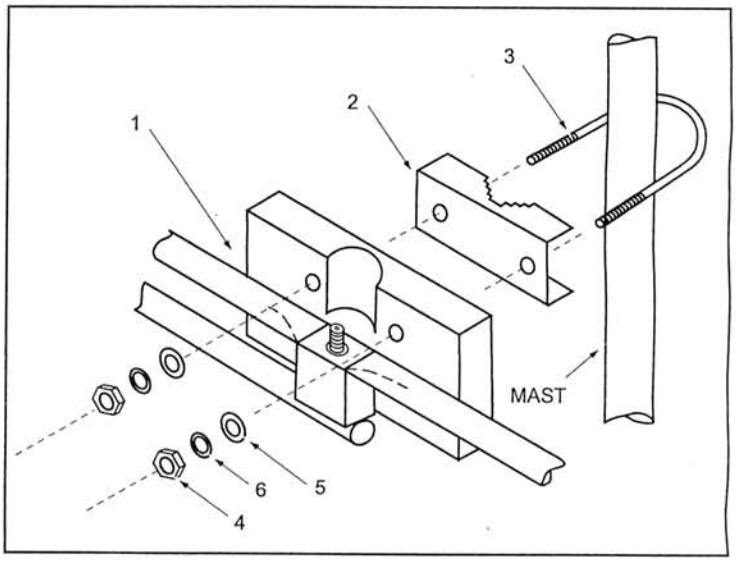
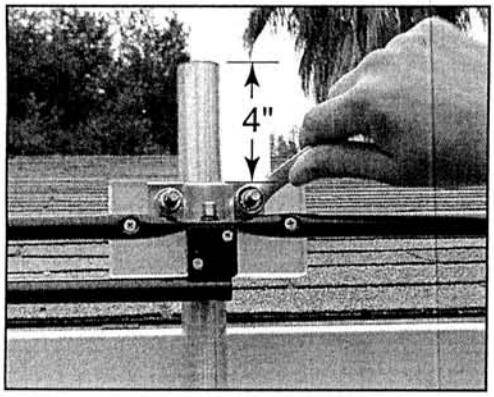


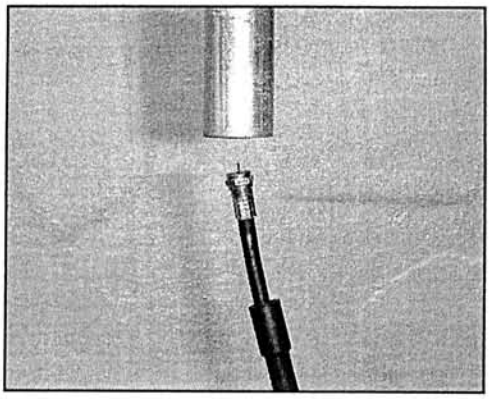
Fig. 1 Recommended installation



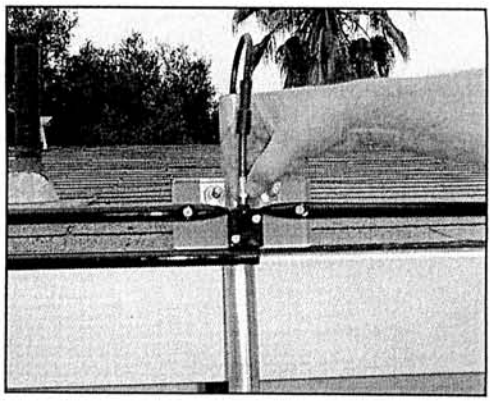
(Step 1) Place cleat onto clear antenna mount block. Push U-bolt through holes of cleat and mount block. Slide washers, then slide lock washers onto threaded ends of U-bolt. Twist the two 3/8-16 nuts on the threaded ends of U-bolt leaving three threads exposed from the ends.



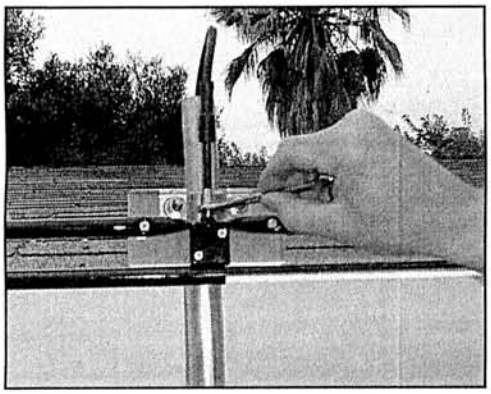
(Step 2) Slide the SE 879 antenna assembly on mast 4" from top. Antenna face should be towards you as shown. Tighten both 3/8-16 nuts evenly. The same amount of threads should be showing after tightening.



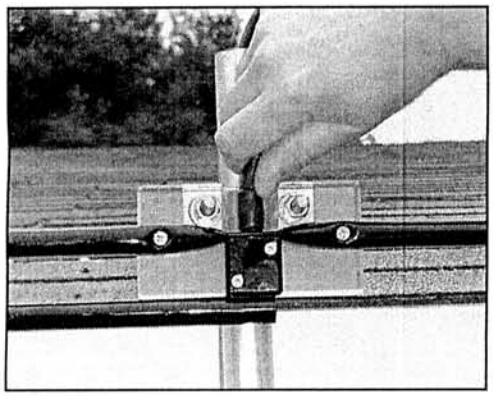
(Step 3) Feed coax cable through bottom end of mast until you see it come out 10" from the top of mast.



(Step 4) Hand tighten coax connector onto antenna gold connector leaving a arc in coax as shown in picture.



(Step 5) Tighten coax connector with wrench. Do not over tighten !



(Step 6) Slip boot over connector. Attach ground wire to mast per National Electric Code. See back page for grounding Instructions. This is a critical safety feature and should be followed.

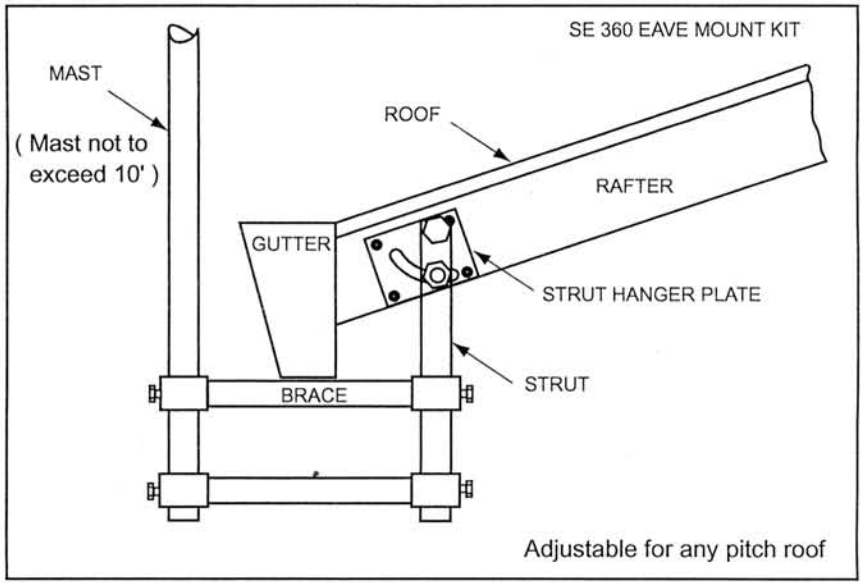


Fig. 2 Eave mount installation recommended

SETTING UP YOUR MAST

How you set up your mast depends on your specific installation. Refer to the insert for the Consumer Product Safety Commission information for other recommended methods.

CONNECTING TO YOUR FM RECEIVER

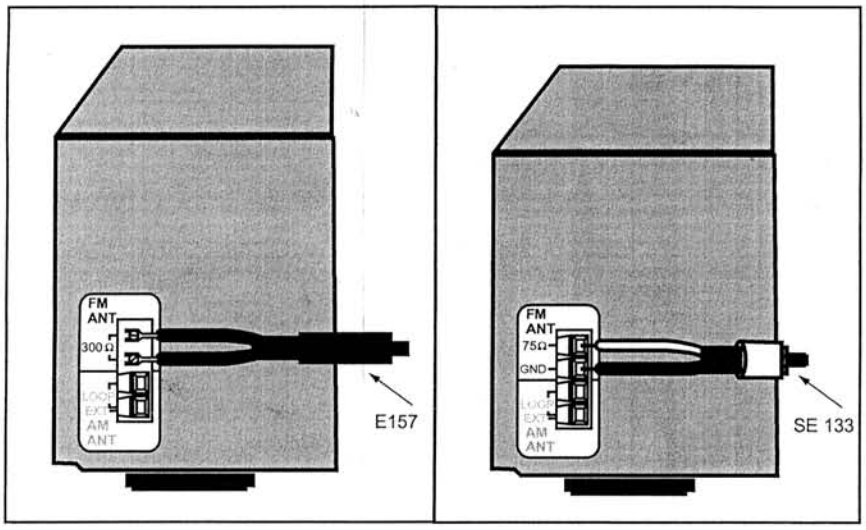


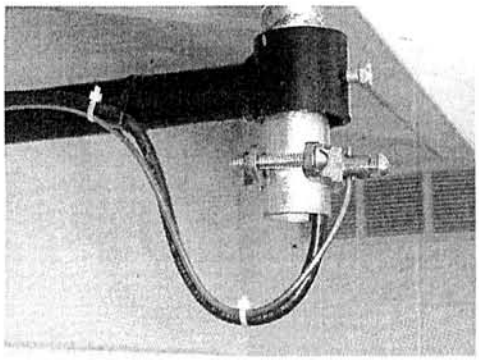
Fig.4 FM Receiver 300 ohm hookup

Fig.5 FM Receiver 75 ohm hookup

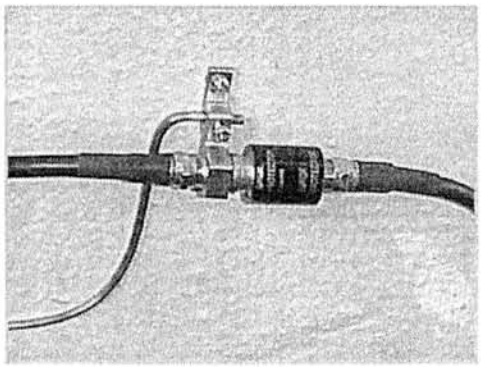
Connect the antenna lead-in cable to your FM receiver's antenna terminals. FM receivers have either 75 or 300 ohm hookup shown in Fig.4 and Fig.5

The two methods of hookup shown in Fig. 4 and 5 use a 300 ohm transformer (E157) or a 75 ohm break-out (SE 133) for optimum performance and ease of hookup.

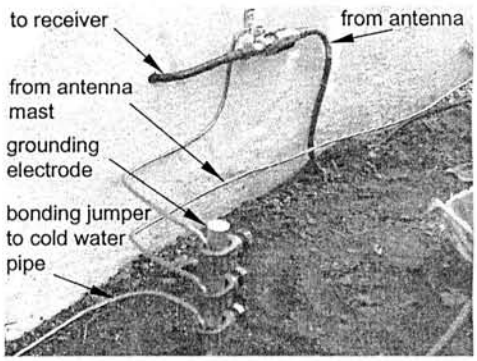
THE FOLLOWING GROUNDING PARTS CAN BE PURCHASED FROM YOUR LOCAL HARDWARE STORE OR BY PURCHASING THE SE 365 GROUNDING KIT FROM SE ENGINEERING



(Step 7) Attach ground clamp, connect and route #8 ground wire as shown in picture. Other end of ground wire will be attach to grounding electrode. Use cable ties to fasten ground wire to coax.



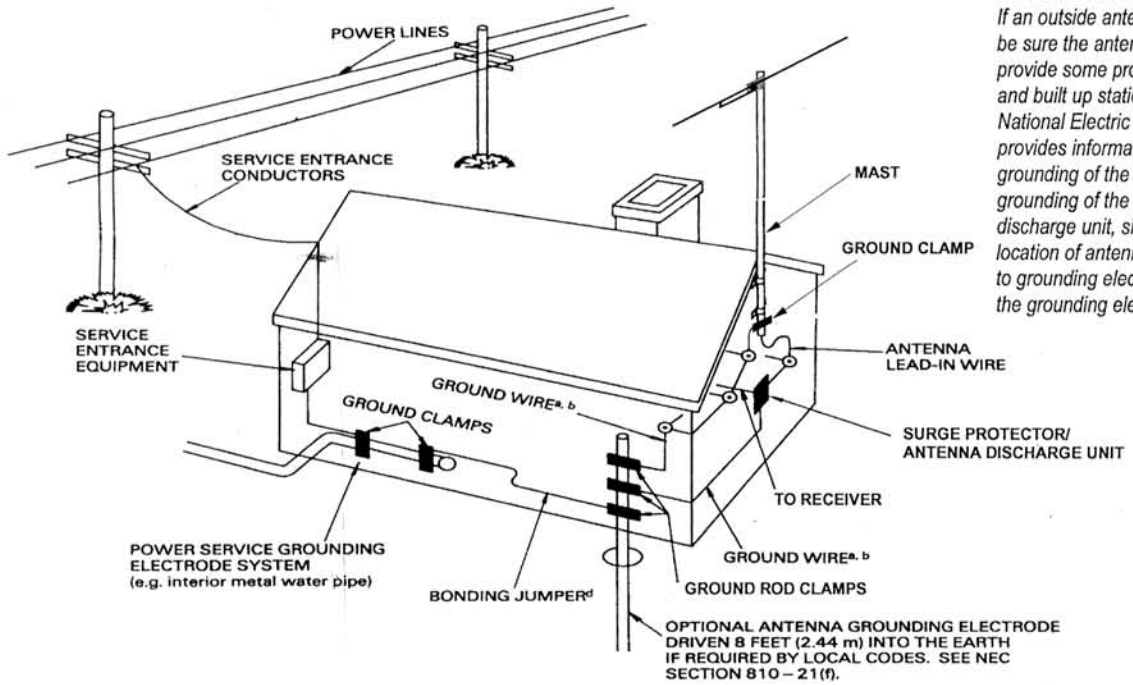
(Step 8) Mount grounding block. Attach surge protector/antenna discharge unit and coax cables. Attach grounding wire. Other end of ground wire will be attach to grounding electrode. Drill two holes with the 3/16" masonry drill and use plastic anchors when mounting on stucco, brick, concrete, stone, etc.



(Step 9) Hammer grounding electrode in ground leaving 4-6" of rod above ground surface. Fasten all three ground clamps with associated ground wires to grounding electrode as shown in picture. Grounding electrode not included in kit.

Outdoor Antenna Grounding -

If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code. ANSI / NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



[a] Use No. 10 AWG (5.3 mm²) copper, No.8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.

[b] Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 – 6 feet (1.22 – 1.83 m) apart.

[c] Mount antenna discharge unit as close as possible to where lead-in enters house.

[d] Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21(j).

FIGURE
EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 – "RADIO AND TELEVISION EQUIPMENT"

SE Engineering Limited Warranty

This product is warranted against defects for 90 days from date of purchase from SE Engineering. Within this period, we will repair it without charge for parts and labor. Simply mail your sales reciept, a brief explanation and product to SE Engineering. Warranty does not cover transportation cost. Nor does it cover a product subjected to misuse or accidental damage.

EXCEPT AS PROVIDED HEREIN, SE ENGINEERING MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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