

**FM-2G PRO Quick Installation Instructions**

The following items are included with this antenna:

| FM-2G PRO FM Antenna Kit |   |
|--------------------------|---|
| 1                        | 56' stainless- steel whip   |
| 1                        | Pole mount L-bracket with loading coil and PL-259 to F-female adapter |
| 1 lot                    | Pole mount hardware   |
| 1 lot                    | Wall mount hardware kit   |
| 1                        | Alternate Stainless- Steel wall mount                                 |
| 1                        | F-female to PAL 75 ohm adapter  |
| 1                        | Coax-Seal   |
| 1                        | 10 dB attenuator  |
| 1                        | 20 dB attenuator  |
| 1                        | Lightening grounding block  |
| 1                        | In- line Surge Protector  |
| 1                        | Allen Wrench  |

**Step 1. Mount the antenna’s L-bracket to a vertical flat surface or to a pole (up to 2 inches in diameter). The antenna should be mounted as far away as possible from metal surfaces and as high up in the air as practical for good reception.**

**Step 2. Attach the stainless steel whip to the resonator post using the supplied Allen wrench (see Figure 1) to tighten the two screws that hold it in place.**

**Step 3. Connect RG-6 cable with male F- connectors to the loading coil (see the attached wiring diagram).**

**Step 4. Apply Coax-Seal to all outdoor connectors to prevent moisture ingress.**

**Step 5. Attach the supplied in-line surge protector to the antenna input of the FM receiver and then attach the antenna lead-in cable to it. Some receivers use a PAL style antenna input and there is included an adapter to convert this input to F-type.**

**Step 6. If there are close-by (within 5 miles) FM transmitters, the signal from this antenna may be strong enough to overload the front-end tuner of some receivers. We have included in- line attenuators (a 10 dB and a 20 db attenuator) to reduce the antenna’s output in these special situations. If you are experiencing distorted sound and you have a close-by FM transmitter first try the 10 dB attenuator in line to see if reception improves. Then try the 20 dB attenuator. For best reception the attenuation should be as little as possible to fix the problem. Don’t put in more attenuation than you need because you will degrade the overall sensitivity for all stations. In extreme situations both attenuators can be cascaded to form a 30 dB attenuator.**

**To determine if you are in a high–level signal environment with a close-by transmitter go to this web site and input your zip code:**

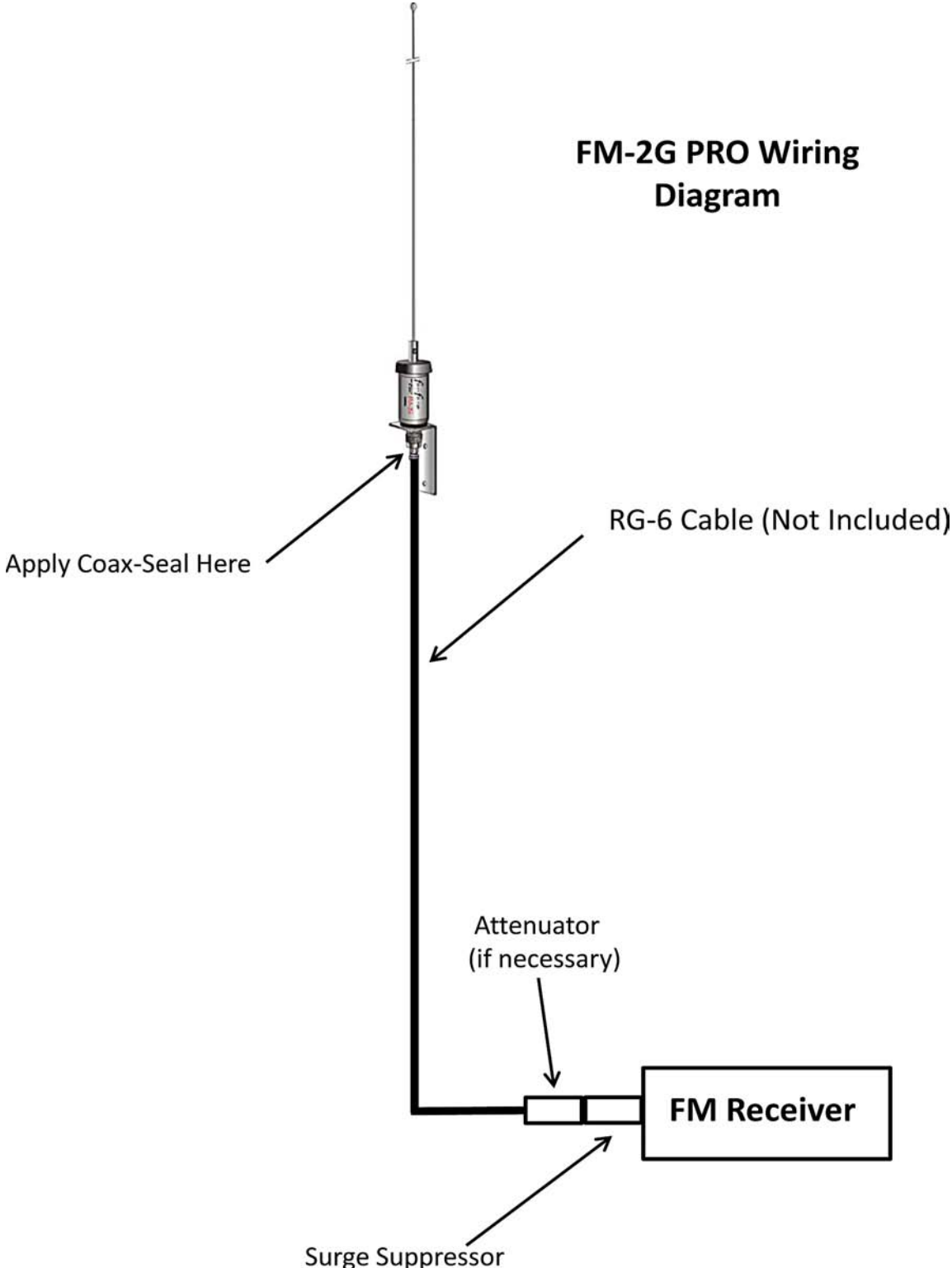
<http://www.v-soft.com/ZipSignal>

**This will return a list of FM stations available in your zip code and their associated field strengths. Typically, stations with Field Strength higher than 100 dBuV/m can overload some receivers when used with this antenna.**

**Please follow the enclosed Outdoor Installation Safety Instructions**

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# FM-2G PRO Wiring Diagram



## Vertical Omnidirection FM Antenna **FM-2G PRO** For 88 - 108MHz (Std. Band)

### INSTRUCTIONS FOR USE

The FM-2G has been designed specifically for the FM broadcast band. It is built to maintain excellent receive characteristics while withstanding the rigors of nature in just about any geographical location where FM signals can be received.

#### Pre-installation

Connect the lead-in to the FM ANTENNA terminal on the back panel of your tuner or receiver. Place the antenna by a window, but away from any metal window frames. One way might be to attach a piece of string (not wire) to the top of the whip and the string to the window's drapery track. Be sure to keep the whip at least 6 inches away from contact with any metal surfaces. Turn on the tuner and tune across the dial. Your reception should be acceptable, with distant stations that might have previously been noisy being received more clearly. With these results obtained, reception should be improved even more markedly when installed outdoors, as high up as possible.

However, if reception is noisy, with one or more stations being received at more than one point on the dial, your tuner's front end is probably being 'saturated' with the increased signal from the antenna. Do not assume this to be a defect in the antenna. It is possible the tuner does not have the selectivity necessary to deal with the higher gain provided by the FM-2G. Please consult your dealer for further information on dealing with the problem.

**Installing the FM-2G** When planning your installation, keep in mind that height is the key to increasing your receive distance; not just the gain of the antenna. Also, in order to avoid multipath interference or signal blockage problems, be sure to keep the antenna away from reflective surfaces such as chimneys, guy wires, walls, TV masts etc. The FM-2G may be installed atop your TV mast without bothering the receptive capability of your TV antenna. Simply fasten the 'L' bracket to the mast using two, outdoor-type(stainless steel), hose clamps.

It may also be fastened to any vertical surface using #6 stainless steel or brass screws. Do not use ordinary steel screws. They will rust very quickly as a result of being in contact with the stainless steel bracket (a dissimilar metal).

Avoid installing the antenna on the side of a mast or tower. Doing so could completely detune the antenna or, at the very least, cause it to become directional.

Balcony installation may take a little ingenuity because of the wide variety of balcony railing designs. You will find the best location by trial and error. One way would be to temporarily locate the antenna at the intended site and note the quality of reception. Be sure you stand well away from the antenna during each test so as to avoid having your body's inductance affect the outcome. Continue the procedure until the best reception location has been found.

Finally, when installing, make sure that the nickel-plated portion of the coil assembly extends above any metal obstructions, such as railings. When running the coaxial lead-in cable from antenna to tuner, be

careful to avoid situations where the cable might be pinched, such as in a door jamb. Severe deforming of the cable will alter its characteristics and reduce its efficiency.

**Extending the Lead-in Cable** The lead-in may be lengthened by purchasing the required extra length in precut form with 'F' connectors already installed at either end. You may also use the existing cable and run it into a 'static discharge unit (discussed later on) using a precut length with 'F' connectors at either end to complete the required cable run.

**NOTE:** For best results, you must use cable with the exact same specification as the cable already in use. For example, 'RG59/U' cable is normally supplied with the FM-2G. If you wish to extend this cable, you must use only RG 59/U. Do not use cable that is labeled 'RG59/U type'. While these two cables might be similar, they are not an exact match. However, you may use this type of cable, or any other good quality 75 ohm coaxial cable, provided the entire run is of the same type of cable.

If the antenna is installed outdoors, it is recommended that the cable be run through a 'static discharge unit' or 'grounding block' that can be connected via a ground wire to a nearby earth ground, such as a grounding rod or water pipe.

**UNPACKING THE CABLE:** When you remove the cable from the package you may find that the center conductor is protruding about 1/2" beyond the connector shell. This is the result of the cable being rolled up and causing the center conductor to migrate out of the insulator. **DO NOT CUT THE CENTER CONDUCTOR.** Instead, stretch the cable out and let it relax. That will allow the center conductor to recede back into the cable's insulation.

#### WARRANTY

This antenna has a limited warranty. If found to be defective in workmanship or in its components, this unit will be replaced or repaired at the option of the vendor, Fanfare FM, for a period of one year from the date of sale to the end user. This warranty does not cover the whip portion of the antenna., nor does it cover damage to the coil assembly which, in the judgment of the Vendor, is the result of misuse, abuse, lightning strike or damage incurred through shipping. Defective units must be returned with shipping charges prepaid and accompanied by a copy of a valid sales invoice issued by an authorized Fanfare FM dealer for this product.

**IMPORTANT** *The foregoing grounding procedure will not provide 100% protection against lightning strike. To protect your FM tuner or receiver against lightning strike through the antenna, the lead-in cable should be disconnected whenever there is threat of an electrical storm.*



## Assembling the FM-2G

Chances are your antenna arrived assembled. However, you should go through the following procedure to ensure that it is ready for permanent installation.

First of all, make certain that the whip is held fast within the loading coil. While it is unlikely that it will be loose, you can check this by holding onto the loading coil with one hand and tugging firmly on the whip with the other. If the antenna arrived disassembled, or if the whip has since been removed, or found to be loose during the above test, do the following. Insert the thickest end of the whip (opposite the static ball end) in the top of nickel-plated resonator post. Push it down until it bottoms. Tighten the set screw at the right side of the resonator until it just touches the whip. Tighten the set screw on the left as tightly by hand as the allen driver will allow. Do not use pliers, etc.

The FM-2G will arrive with the both the 'L' bracket and the Connector Adaptor loose in the same package as this instruction sheet. Referring to Fig.1, reinstall the 'L' bracket supplied as shown by first removing only the ring nut from the threaded portion at the base of the coil housing. Then slide the L bracket back onto the threaded portion as shown in the diagram. Reinstall the nut, tightening it against the bracket about a 3/4 turn past finger tight. Install the Connector Adaptor onto the threaded portion of the base connector. A little beyond finger tight is OK.

(TIP: Smear a little lithium grease on the threads of the Connector Adaptor to maintain conductivity and protect against moisture entering the connection.)

### FM-2G Specifications

|                        |                |
|------------------------|----------------|
| Gain (Virtual) -       | >1dB           |
| Freq. range (approx) - | 80Mhz - 115Mhz |
| Height (O.A.) -        | 56" (142cm)    |
| Weight (less cable)    | 5oz. (140g)    |
| Ground plane -         | None required  |

### DANGER - ELECTRIC SHOCK

Extreme care must be taken when working around electrical wiring.

**DO NOT INSTALL THIS ANTENNA NEAR ELECTRICAL WIRING OF ANY KIND.**

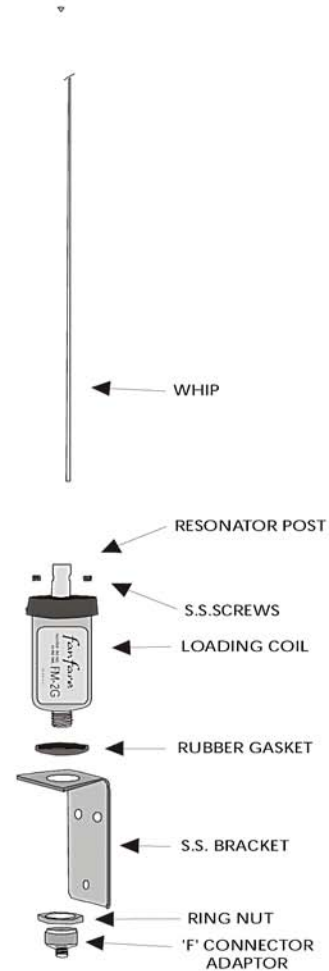


Fig. 1

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**fanfare** FM

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FM2G-IN1&2.SAM Rev.1/9/96