

DS14-FG: Adjustable Fold-Down

(Required tools: drill, 11mm or 7/16" drill bit, 3/8" or 10mm wrench or nut driver)

1 - Drill a hole where the antenna will be mounted. This antenna is ground plane independent, so grounding of the antenna or mount is not necessary. You may install your antenna on any metal or non-metal surface. Due to the compact size of this antenna, best results will be obtained by mounting the antenna as high as possible. Roof mounting is preferable.

2 - Route the included coax so that the screw-on connector will reach your CB**. Excess cable must not be cut. Coil the excess in a circle no smaller than 10 inches and tuck it away where it is out of sight. If you need more than the included 17 feet of coax, then it must be added between the radio and the included NGP cable. FireFlex coax cable may be added in lengths of 9 or 18 feet or any other multiple of 9 (27, 36, 45, etc.).

If you will be using any rubber grommets to protect your cable, slide them over the cable before proceeding (one is included).

3 - Crimp the included ring terminal to the previously prepared coax center lead.

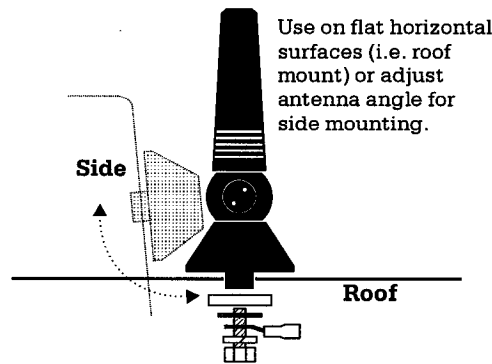
4 - Lower the antenna base down into the hole you drilled (make sure that the large rubber gasket is in place on the underside of the mount). The flared out base should

fit snug against the top of the vehicles surface.

5 - From the underside of the installation, install one or two of the nylon insulator washers (two insulators will be necessary only if the hex bolt bottoms out before the antenna base is tight). Install the ring terminal, flat washer and lock washer, then secure the mount with the hex bolt.

6 - To adjust antenna angle, turn the "cone-shaped" loading coil counterclockwise to loosen; clockwise to tighten*. Best performance will be achieved when the antenna is in it's most upright vertical position.

**Bare-hands adjustable fold-down mount. No tools needed. Fold-down your antenna to protect from hitting overhead objects (i.e. parking garages, low roofs, car washes).*



7 - Prepare to start tuning. Using included allen tool, loosen allen screw at top of loading section. Slide whip down until it stops, then raise it up about 1/4" inch and tighten. For most instances, this should be a good spot to start tuning.

Tuning

SWR on channel 40 higher than ch.1

Loosen allen screw and lower metal whip (Start with small increments as little as 1/16"). Tighten allen screw. If whip bottoms out, remove rubber tip and trim whip in 1/8" increments. No more than 1/2" total (**Caution: Only cut if SWR is within 0.5 of 1.5:1**)

Adjust and retest until SWR on channel 40 is about same as on channel 1.

SWR on channel 1 higher than ch. 40

Loosen allen screw and raise metal whip (Start with small increments as little as 1/16"). Tighten allen screw.

Adjust and retest until SWR on channel 40 is about the same as channel 1.

For further information on SWR tuning, consult your SWR meter manual. For more technical information on CB radio and antennas send \$1.00 to **Firestik Antenna Company**, 2614 E Adams St, Phoenix, AZ 85034, to receive a copy of "SWR Tuning and Things Every CB'er Should Know."

****IMPORTANT: Avoid routing cable through areas which may cause sharp bending, kinking or smashing of the coax. Also avoid running cable through sharp-edged metal holes. Use rubber grommets when possible to protect the coax.**

IMPORTANT INSTRUCTIONS *** IMPORTANT INSTRUCTIONS *** IMPORTANT INSTRUCTIONS

WARNING! The coax cable in this kit contains an internal circuit. It can **ONLY** be used with Firestik no-ground-plane (NGP) antennas. NGP antennas and coax cables **ARE NOT** interchangeable with ground plane (GP) dependent antennas or coax. Also, the length of the coax is **CRITICAL**. **DO NOT**, under any circumstance, alter the length of the 'No-Ground-Plane' (NGP) cable. It is a tuned circuit. While there are some **VERY RARE** instances when installation anomalies can be corrected via the coax cable, the installer **SHOULD NOT** alter the length of the NGP cable unless specifically instructed to do so by a Firestik technician. If additional length is required between the antenna and radio, use a barrel connector and RG-58A/U coax in lengths multiple of 9 feet.

The ring terminal for the antenna end of the cable was left off so that the installer can pass it through small access holes. We recommend that the ring terminal be soldered on versus crimped. If it ever becomes necessary to remove the coax for service, it will be near impossible to remove a crimped on ring terminal without losing some coax length.

Unlike conventional GP antenna systems, the NGP coax only uses the center conductor at the antenna end. Do not attempt to ground the coax shield at the antenna end. Grounding the coax at the mount end will prevent proper operation of the antenna system and may cause damage to the radio. Please note that continuity is normal when measured between the center pin and housing of the radio-end PL-259 connector. This is normal on all Firestik NGP kits.

Lastly, use care when routing the coax. Try to avoid pulling the cable through areas with sharp edges. The outer jacket is soft and could become damaged. If there is excess cable length, **DO NOT** coil it up, as this could cause an unfavorable reaction (RF choke). You **MAY** either let the excess cable lay loosely in a headliner or wall, or for the excess into a 12" or longer bow-tie type configuration with a wire-tie in the center.

Like all other antennas that are expected to transmit energy, the NGP antennas should have their SWR fine tuned after mounting. Setting SWR maximizes performance, highlights possible trouble and protects the radio from potential damage.

About the warranty ...

This antenna system is guaranteed to be free of defects in workmanship and materials for a period of one year from date of purchase to the original purchaser. Damages caused by abuse, misuse or negligence (i.e. hitting solid over head objects) are not covered by this warranty. However, if you run your vehicle into a solid object and the vehicle maker agrees to warrantee the damage, we will warrantee the antenna if it was mounted to the vehicle component that the vehicle manufacturer agrees to repair/replace under warranty.