

Basic Installation of The Wilson Fiberglass Single Antenna:

Models:305-550, 305-555,305-480, 305-482, 305-483,305-485, 305-486, 305-488, 3054FD,305-489, 305-491

NOTE: The following basic instructions apply to all models of the Wilson Fiberglass line: FGT-2, 3, 4, 5, 6 and the Flex antennas.

1. Remove all parts of the Wilson Fiberglass from package.
2. Place the black printed top plastic cap on top of the antenna, lightly pushing it on.
3. Install the Wilson FGT fiberglass antenna on the mirror mount (note: must be a standard 3/8 x 24 thread mount)
4. Secure the antenna onto the mount by tightening with a crescent wrench or 9/16 open end wrench. CAUTION: Do not over tighten
5. Do not connect the matching lead at this time.
6. Connect an 18' (recommended) length of RG-58 coax cable from the mount to the radio.
7. Check system for SWR reading, on CH-1, 20, and 40. Always check SWR with the top plastic cap on.

If the SWR is high on CH-1 and low on CH-40:

If the SWR is high on CH—1 and low on CH-40, the antenna is short and the whip tip must be raised.

1. Remove the plastic top cap covering the whip tip.
2. Adjust the antenna by loosening the set screw, with the provided allen wrench, and raising the movable tip up approximately 1/8”.
3. Tighten the set screw; replace the plastic cap, and again test The SWR
4. Continue to adjust until the lowest SWR is obtained at the Frequency desired.
5. In some installations, the best SWR may require a longer whip tip than supplied. If, after raising the adjustable tip all the way to the top, and still the indication is that you need a longer tip, contact Wilson Antenna for a replacement whip tip, or see Hints & Notes below.
6. The antenna is tuned when both CH—1 and 40 are approximately equal, with CH-20 being the same or lower.

If the SWR is low CH-1 and high on CH-40:

If the SWR is low on CH-1, and high on CH-40, the antenna is long and the whip must be lowered.

1. Remove the plastic top cap covering the whip tip.
2. Adjust the antenna by loosening the set screw, with the provided allen wrench, and lower the movable tip down approximately 1/8”
3. Tighten the set screw; replace the plastic cap, and again test the SWR.
4. Continue to adjust until the lowest SWR is obtained at the frequency desired
5. In some installations it may be necessary to cut ¼” from the bottom of the whip tip, or even remove the whip tip.
6. The antenna is tuned when both CH-1 and 40 are approximately equal, with CH-20 being the same or lower.

If SWR below 2:1 is not obtainable:

1. If you cannot obtain a good SWR reading of below 2:1 using the above methods, it may be impedance of your antenna system is other than 50 ohms.
2. Connect the matching lead to the nearest mounting bolt or ground point on the mount. This will cause the resonant frequency to drop approximately 20 channels. It will be necessary to shorten or even remove the whip tip to find the lowest SWR.
3. Return to step 7 above, and begin tuning for the best SWR as described.

