

**BASIC INSTALLATION:**

**Models: 305-492, 305-493, 305-494, 305-494, 305-495, 305-497**

1. Loosen both set screws from the chrome mast located at the top of the Trucker loading coil.
2. Remove and discard the short shipping tip.
3. Insert the included antenna whip fully into the bottom of the mast.
4. Lightly tighten both set screws. (Do not fully tighten at this time).
5. Place a lock washer on shaft.
6. Install WILSON TRUCKER on mount, screwing shaft into the mount until it bottoms out.
7. Securely tightened tapered hex nut on antenna mount.
8. Basic installation is now complete. Proceed to tuning instructions.

**TUNING THE WILSON TRUCKER Single Antenna**

1. For best performance and easiest tuning, use 18" length of RG-58 A/U, RG-8 A/U or RG-8X coax. Do not coil excess length as this creates an RF Choke. Rather, "stuff" it randomly under the carpet, behind the dash or other less visible location.
2. Read SWR on channels 1, 20, and 40.
3. If SWR is higher on channel 1 than on 20 or 40, loosen set screw and pull antenna whip up ¼", and re-tighten the set screws. Read the SWR again.
4. If SWR is still higher on channel 1, repeat step 3 above until lowest SWR reading is obtained on channel 20.
5. If lowest SWR obtained is below 1.5:1 on channel 20, tighten both set screws: CAUTION: Do not over tighten the mast set screws.
6. If SWR is lower on channel 1 than on 20 and 40, loosen set screws and remove antenna whip from mast. Tighten set screws and read SWR again.
7. If SWR is still lower on channel 1, repeat step 6 until lowest SWR reading is obtained on channel 20.
8. If lowest SWR obtained is below 1.5:1 on channel 20, tighten both set screws. CAUTION: Do not over tighten the mast set screws. If you prefer the lowest SWR to be on any other channel or frequency, simply tune and adjust for preferred channel or frequency.
9. After tuning is completed, securely tighten tapered hex nut at antenna mount. CAUTION: Do not over tighten hex nut.
10. Tuning and installation of antenna is now complete. You may use the antenna chart below, for the WILSON 2000, as an approximate guide for different channels, adjusting the antenna whip for the length desired.



## ANTENNA WHIP LENGTH GUIDE

Approximate whip length with shaft length of:

**CITIZEN BAND (11MTR)**

CH.	FREQ.	5"	10"
1	26.965	52.0	50-1/4
5	27.015	51-3/4	50.0
10	27.075	51-1/2	49-3/4
15	27.135	51-1/4	49-1/2
20	27.205	51.0	49-1/4
25	27.245	50-3/4	49.0
30	27.305	50-1/2	48-3/4
35	27.355	50-1/4	48-1/2
40	27.405	50.00	

**Amateur band (10 MTR)**

28.000	48.0	46-1/2
28.250	47-1/4	45-1/2
28.500	46-1/2	44-3/4
28.750	45-3/4	43-3/4
29.000	45.0	43.0
29.250	44-1/4	42-1/4
29.500	43-1/2	41-1/2
29.750	42-1/2	40-1/2

**NOTE: 18/22" shaft not recommended for the Trucker 2000, on truck mirror mounts, as it puts too much torque on the mounts.**

- The lengths listed above are for the antenna whip inserted into the mast. Measure from the top of the antenna tip to the bottom of the chrome mast.
- The actual length for your installation may vary from the chart, due to differences in vehicles and grounding.
- To cut the stainless steel antenna whip, bolt cutters are recommended, however a standard hacksaw may also be used.

### DUAL TRUCKER INSTALLATION

1. The WILSON TRUCKER will operate excellently in a dual configuration. For best performance and maximum
2. Tuning the TRUCKERS for dual installation is quick and easy. Install both antennas on the mirrors following steps 1-9 of "Basic Installation" above, for each antenna.
3. Install and route an 18 (recommended length for each side) of RG/59 co-phasing harness, but do not connect the coax to the radio or the antenna mounts.
4. Temporarily connect an 18" length of RG/58 coax from the SWE meter (or radio) to one antenna (example: driver's side only).
5. Tune this antenna for best SWR, using the procedures described above in "Tuning the Wilson Trucker"
6. When driver's side tuning is completed disconnect the coax from mount and connect it to the passenger's side. Again tune for best SWR.
7. After obtaining the best SWR on the final antenna, remove the RG/58 from the system and connect the RG/59 co-phasing harness to both antenna and the SWR meter or radio
8. Only minor adjustments may be required for final tuning.



## HINTS ON INSTALLING & TUNING

### PROBLEMS ENCOUNTERED

- A. If you notice a steady 3.0.1 across the entire band of operation (example: Ch.1 thru 40) check for proper grounding. Some trucks have an outer body shell insulated from the chassis found. Also some mirrors have a coating on them that appears to provide a ground, but it is not sufficient for antenna operation.
- B. For fiberglass RV's or motor homes, using the WILSON "FLOATING GROUND KIT" can solve the missing ground problem. It will provide an artificial ground for these vehicles and allow the antenna to operate properly.

### TECHNICAL SUPPORT

Additional help may be obtained by calling our toll free number 1-800-541-6116 Monday thru Friday. Please note Wilson Antenna is close Saturday, Sunday & holidays. Additional installation guides, help & technical support information is available at: [www.wilsonantenna.com](http://www.wilsonantenna.com) or by email: [techsupport@roadprobrands.com](mailto:techsupport@roadprobrands.com).

