

Wilson 1000 GUARANTEE

2 YEAR GUARANTEE

Wilson Antenna Inc. Guarantees the Wilson 1000 antenna to be free from defect in material and workmanship that effect performance for a period of 2 years from date of purchase. This guarantee shall not cover any misapplication or abuse of the Wilson 1000. This guarantee does not include the 17 ft. coaxial cable which is warranted 1 year. Warranty replacement valid at any Wilson Dealer with proof-of-purchase.

PERFORMANCE GUARANTEE**

The Wilson 1000 will transmit and receive farther than the antenna it replaces or your money back. This guarantee is good for 15 days from date of purchase.



Heavy Duty Magnet Mount

Caution:

Small particles on car surface or bottom of magnet can damage the car's paint surface. Clean surface of car and bottom of magnet with a soft towel or rag before installing on vehicle.

When removing the antenna, grasp the coil portion of the mount firmly and "tilt" the antenna towards you. This will break the magnet force and allow you to lift the antenna off the vehicle without scratching the paint. Do not "slide" or "twist" magnetic mount while on vehicle.

Wilson 1000



AMERICAN MADE

Wilson
ANTENNA INC.

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Wilson 1000

Tests by Lockheed show Wilson 1000 has 58% more power gain than the K40*

*on channel 40

- Gain performance proven by power gain tests at Lockheed Corporation Antenna Test Laboratory.
- 3000 Watt power handling capability (ICAS).
- 2 year guarantee
- Made with high impact Mobay Thermoplastic.
- Silver-plated coil and internal connections.
- Exclusive low loss coil design (Patent #4,882,591).
- 17-7 PH Tapered spring stainless steel whip.
- Frequency range 26 MHz to 30 MHz.

Wilson 1000
CB & AMATEUR ANTENNA

Wilson
ANTENNA INC.

WHY THE Wilson 1000 PERFORMS BETTER

The Wilson 1000's higher gain performance is a result of several new design developments that bring to you the most powerful CB base loaded antenna available.

A large portion of the power that goes into a typical base loaded CB antenna is lost as heat in the coil and as dielectric heat loss in the plastic inside the coil form. Many CB antennas lose more than 50% of the power put into them. The power is wasted as heat loss and not radiated as radio waves. Another weak link in other CB antennas is the capacitor used to match the coax to the antenna, which is a cheap and easy way to make the SWR look good, but has lots of power loss, plus blows out when high power is applied to it.

The first priority was to reduce the dielectric loss by removing as much of the plastic inside the coil as possible. This was accomplished by suspending the coil in air, supported only at four small points, 90° apart, in effect removing 95% of the plastic from the inside surface of the coil. This reduced the dielectric loss to a negligible amount.

The second priority was to get rid of the resistive heat losses in the coil.

Since most of the RF energy at 27 MHz travels on the surface of the wire, it was decided to increase the surface area by making the diameter of the wire larger 10 GA copper. Since silver is a much better conductor than copper, although very expensive, the wire was heavily silver plated. This reduced the resistive loss to a minimum.

Finally, to get rid of the losses in the matching between the coax and the loading coil, the lossy capacitor was eliminated and a more difficult but more efficient means of coupling the antenna was used. A Scalar Network Analyzer was used to determine the very precise point to direct match the coil with the coax and obtain the best match with maximum power transfer, which gives the 3000 watts of power handling capability.

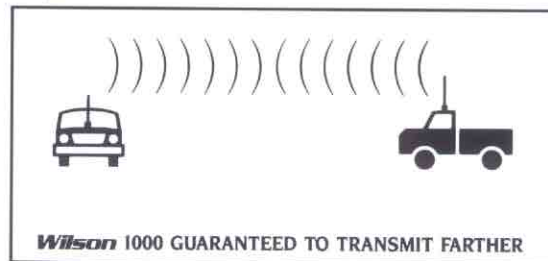
So far you have read about why the Wilson 1000 performs better, but the Wilson 1000 is also the most rugged antenna you can buy. It is made with Mobay's Thermoplastic. It costs a lot more, but it's the best available. All of these are the reasons you get a 2-year guarantee and your Wilson 1000 is guaranteed to outperform any CB mobile antenna or your money back.**

58% MORE POWER GAIN THAN K40

Lockheed Test shows that the Wilson 1000 has more power gain than the K40

*In tests conducted by Lockheed Corporation, one of the world's largest Aerospace Companies, at their Rye Canyon Laboratory and Antenna Test Range, the Wilson 1000 was found to have 58% more power gain than the K40 Elec-

tronics Company, K40 CB Antenna. This means that the Wilson 1000 gives you 58% more gain on both transmit and receive. Now you can instantly increase your operating range by installing a Wilson 1000.



Wilson 1000 GUARANTEED TO TRANSMIT FARTHER

*Based on Lockheed Test Report at 27405 MHz plus or minus .1 DB Measurement accuracy.

There's Quality Inside...

Made with High Impact Mobay Thermoplastic

Silver-plated coil and internal parts and connections

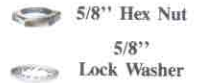
Floating Coil Eliminates 95% Dielectric loss (Pat Pend)

High power matching to handle 3000 watts of power



How to Roof Mount the Wilson 1000

1. Drill a 3/4 or 7/8" hole in roof.
2. Route the cable between hole and the CB radio.
3. Put body mount into hole.
4. Place the roof mount gasket over the body mount on roof.
5. Place stand off over mount.
6. Place 5/8" washer & hex nut on mount and tighten.
7. Screw antenna coil into place.
8. Put whip into mast and adjust according to tune up procedure.



Roof Top Rubber Gasket



Car or Truck Roof 7/8" Hole



How to Mount the Wilson 1000 on the Trunk

1. Loop the cable around the lip of the trunk mount bracket so bracket can be slipped on the lip of the trunk.
2. Place the rubber gasket (900704) with the slot to the rear on the bracket.
3. Slide the trunk mount bracket on trunk lip and tighten the two set screws on the bottom lip underneath the trunk lid with the Allen wrench provided.
4. Close the trunk and screw on antenna and whip.
5. Adjust according to tune-up procedure



How to Tune and Adjust the Wilson 1000

If you intend to operate only in the CB Band, insert the whip 1" into the Antenna Adjustment Mast.

In most cases it is not even necessary to check your SWR. If you have access to a SWR meter, put it between the CB Radio Antenna jack and the Wilson 1000 connector.

1. Check the SWR on CH1 and CH40. If the SWR is lower on CH1 than on CH40 insert the whip into the mast 1/4" more and check SWR. Repeat until SWR is the same on CH1 and CH40.

2. If the SWR is higher on CH1 and lower on CH40, pull the whip out 1/4" until SWR is the same on CH1 and CH40.

3. It is important that the car or truck doors are shut while making SWR measurements. Also, the vehicle should be at least 30 ft. from any metal wire or structures.

4. For amateurs operating on 10 meters cut 1-1/2" from the bottom of the whip (use a hacksaw), and adjust for best SWR between 28.3 and 28.5 MHZ.

