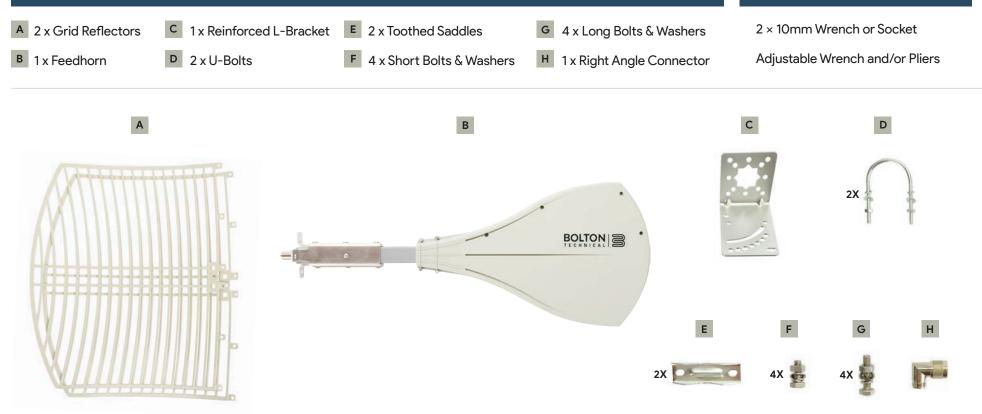


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The Long Ranger Ultra High Gain Parabolic Antenna

IN THE BOX

RECOMMENDED TOOLS



ASSEMBLY INSTRUCTIONS



Bring two halves together with the tabs overlapping. Alternate the tabs over/under.





Carefully check the tab arrangement. Excess pressure indicates incorrect alignment.





With holes aligned, secure the two halves with the short bolts to the four outer positions.

Secure the left & right bolts in

proceed with remaining bolts for

place to hold bracket. Then

top & bottom of feedhorn.

7

11





All four outer bolts should be tightly secured with the head of the bolt facing inward.



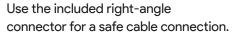
With the feedhorn vertical, use one hand to hold 2 long bolts in place on the left & right arm brackets.



U-Bolts & toothed saddle should be positioned as shown for the best grab on the mast. Position feedhorn so bolts & connector pass through reflector. Place L-Bracket over bolts and connectors as shown.



Once on mast, secure nuts on U-bolt. L-bracket allows for vertical alignment in combination with holes & the U-bolts.



Depending on your mount location. You can slide assembled antenna over mast or secure U-bolts around mast on this step.



Completed Antenna NOTE: The antenna has a very narrow radiation beam. Antenna will only work within the narrow signal cone.



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BT974822

The Long Ranger Ultra High Gain Parabolic Antenna

AIMING THE ANTENNA



- RECOMMENDED FOR USE IN RURAL AREAS, OR AREAS WITH WEAK SIGNAL.
- PROFESSIONAL INSTALLATION IS RECOMMENDED.

1 ASSEMBLE

Be sure to assemble the antenna per the assembly sheet included

2 LOCATE

Aim the antenna at the intended target. In most cases it will be a cellular tower which hosts your desired carrier's antennas. Keep in mind that a tower nearby that you know the location of, may not be the broadcast tower for your desired frequency range and carrier. If you are unsure which tower to use, a number of tower location apps by carrier & frequency are available.

FINDING THE TOWER: The best way to see improvements in signal is with a spectrum analyzer. If one is not available you will use a "rough indicator" like the bars on your phone or speed tests on your devices. As you aim better or worse, you will see the difference in your device. **NOTE:** It may take up to 1 minute for your phone to update the signal strength reading with the bars. For real time readings on your phone, manually change to show signal in dBm.

If possible, use a lower gain antenna with a larger spread to locate the general direction of the tower. If not available scan with the grid 2°-4° at a time to find the tower. A Bolton Technical Yagi Antenna Works Great!

When aiming grid, be aware of the narrow signal beam. The grid can only "see" within the signal pattern for a given frequency. Once the best position is found, secure the grid firmly to ensure performance.



SIGNAL PATTERN VARIES DEPENDING ON YOUR FREQUENCY SELECTION 6° - 20° TOWER MUST BE WITHIN SIGNAL PATTERN TO FUNCTION CORRECTLY

EXPERT TIPS

Scan this code to visit the Long Ranger product page on our website \bullet



USE MINIMUM CABLE LENGTH



MAXIMIZE ANTENNA HEIGHT



FIND A CLEAR LINE OF SIGHT



USE TWO GRIDS FOR MIMO





BOLTON 3

DO NOT BEND CABLE AT CONNECTORS