

# JAVAD ARWEST



## UHF NO GROUND PLANE WHIP ANTENNA 1/2, UNITY GAIN dBd, NMO

[30-587307-01, 30-587308-01, 30-587309-01]

No Ground Plane (NGP) UHF antenna for AW435BT and AW404BT transceivers

**Performance:** These antennas feature a 1/2 wave whip with a base loaded matching coil. They have a power handling capacity of 200 watts.

**Stylish and Durable:** These antennas are manufactured using the finest corrosion resistant materials and finishes available. The base is triple plated chrome brass.

**Dependable:** The large diameter low loss coil form is insert molded and features a spring loaded contact.

Antenna does not require a ground plane, but adding a ground plane would increase gain of the antenna.

A UHF Antenna Ground Plane Disk (p/n 10-587400-01) could be installed at the bottom of the antenna if 12ft/3.6 m antenna cable p/n 14-578117-06(05, 07) Accessory UHF Ant Cable TNC (BNC, SMA)/NMO with pole mount antenna adapter is used.

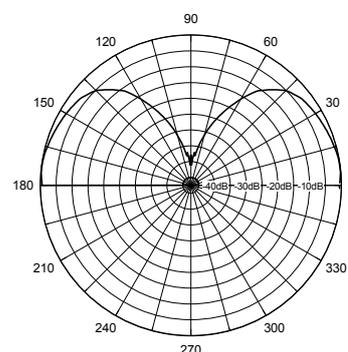
If the antenna is mounted on the metallic surface (a car roof or a plate of iron or steel) using magnet mount adapter, it would substitute the Disk.

Optional 12ft/3.6 m antenna cables with magnet mount type of mounting adapter are 14-578115-02 (01) Accessory UHF Ant Cable TNC (BNC)/NMO with standard magnet mount adapter and 14-578116-02 (01) Accessory UHF Ant Cable TNC (BNC)/NMO with Mini-magnet mount adapter.

# UHF NO GROUND PLANE WHIP ANTENNA 1/2, UNITY GAIN dBd, NMO

<b>Electrical Specifications:</b>	
Frequency	406 - 430 (470) MHz (p/n 30-587307-01) 430 - 450 (470) MHz (p/n 30-587308-01) 450 - 470 MHz (p/n 30-587308-01)
Gain	Unity dBd (2.15 dBi), No ground plane 2.4 dBd (4.55 dBi), With ground plane
VSWR	< 1.5:1
Impedance	50 Ohms
Radiation Pattern	Omni directional
Power Rating	200 W
<b>Mechanical Specifications:</b>	
Radiator	Stainless steel
Matching coil	Silver plated enclosed coil
Base	ABS, chrome plated brass
Length	13.5" maximum
Weight	0.31 lbs (0.14 kg)
Mounting	NMO type

**Vertical Pattern No Ground Plane**



## WHIP CUTTING INSTRUCTIONS

The whip should be cut to the length that corresponds to the desired frequency you expect to operate on. In most cases it is desired to cut the whip a bit longer than the chart and make final adjustment by moving the whip in the adapter. Please note that the lengths given in the chart are the total length of the antenna whip.

Each antenna is supplied with a whip that is trimmed to operate at the lowest frequency. To adjust for a higher frequency you must cut an appropriate amount from the bottom of the whip. Adjustment of the exact frequency can be made by moving the cut whip up or down in the adapter and checking the lowest VSWR.

Coil assemblies are factory tuned and sealed. No adjustment should be attempted on them. All frequency adjustments should be made by trimming the whip.

As a rule, you should be able to obtain a VSWR of 1.5 to 1. If you are unable to accomplish this, a check for correct whip length and proper mounting condition is recommended.

<b>p/n 30-587307-01 406-430 (470) MHz</b>		<b>p/n 30-587308-01 430-450 (470) MHz</b>	
<b>Frequency, MHz</b>	<b>CUT WHIP</b>	<b>Frequency, MHz</b>	<b>CUT WHIP</b>
406-425	11" (27,9 cm)		
425-440	10" (25,4 cm)	430-440	10" (25,4 cm)
435-450	9 3/4" (24.8 cm)	435-450	9 3/4" (24.8 cm)
440-455	9 1/2" (24.1 cm)	440-455	9 1/2" (24.1 cm)
450-470	9" (22,9 cm)	450-470	9" (22,9 cm)

No cutting is required for p/n 30-587309-01



**Specifications are subject to change without notice**

900 Rock Avenue, San Jose, CA 95131  
Tel+1 408 770 1790 Fax: +1 408 770-1799  
Email: sales@arwestcom.com © 2015 ArWest Corp.

Rev.2.0 January 13, 2015