

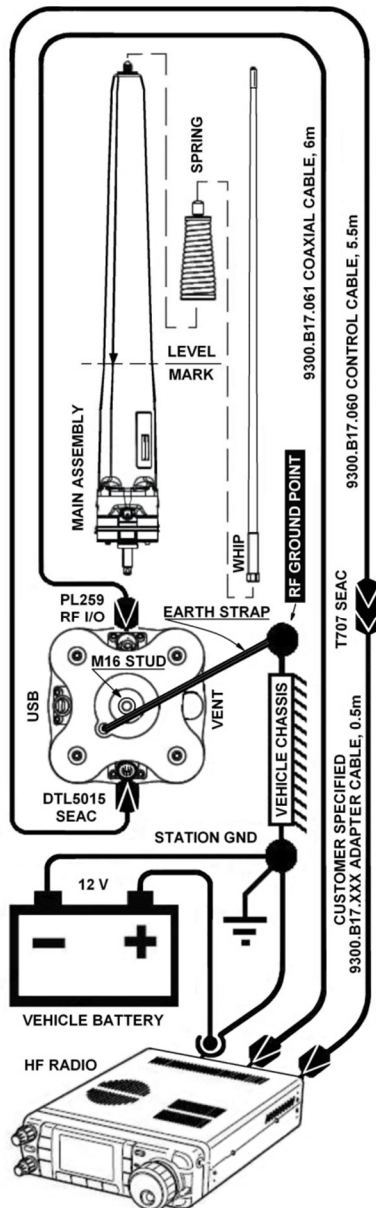
QUICK GUIDE

Installation of 93-series Autotune HF Antennas



The antenna is a critical element in any communication system. Correct installation is very important factor for achieving utmost of your antenna system performance and function of your transceiver. We recommend that installation of STEALTH 93-series antennas are carried out by qualified technicians only.

FOR TRAFFIC SAFETY Use original Antenna Mounting Systems which cover most of installations scenarios on virtually any type of vehicles ensuring best communications and compliance with Traffic Safety Guidelines.



INSTALLATION: Select or fabricate strong metal bracket with antenna plate about 8-10mm thick and firmly bond it to vehicle chassis or other strong structure using welding or bolting. For greatest radiation effectiveness position antenna as high as possible. For human safety mount antenna at front and opposite side of steering wheel whenever possible. Refer pictorial installations scenarios shown overleaf. Make sure to reserve enough clearance around antenna so that any flexing of the antenna will not damage the vehicle – bear in mind that Main Assembly can flex as much as 16cm, without damage. Observe upper 2/3rd of antenna Main Assembly is as far from vehicle vertical and horizontal metal panels as possible, use antenna Level Mark for reference. Mount the antenna on the bracket plate provided with 17mm hole for the M16x2mm threaded mounting stud. Rotate Main Assembly until VENT and EARTH STRAP directed towards the vehicle body and tighten the stud with nut strongly. Use original hardware and proper tools only.

RF-GROUND: It is absolutely essential that the antenna is connected to an effective and stable RF GROUND POINT – the vehicle chassis. It is further recommended that body panels are also bonded to the vehicle chassis. Make sure all contact points are free of paint and grinded to shiny metal and protected from rusting with conductive grease before bolting the mounting stud and Earth Strap terminals.

CABLING: Three cables are supplied with each antenna – a coaxial cable, a control cable and an adapter cable. An Earth Strap is provided on the base of the antenna to ensure reliable connection with vehicle metalwork: Connect Earth Strap with both chassis frame and cabin metalwork whenever possible. Avoid feeding antenna cables together with engine ignition cabling routes. Use One-Point (Star) Station Ground for entire HF system where your transceiver is installed. Feed both (B+ and B-) thick wires from vehicle battery to R/T location - do not use vehicle metalwork as replacement of B- wire. Refer typical correct installation Cabling Diagram for location of antenna cables and connection points.

SETTING UP: The antenna is supplied ready for installation with preconfigured software and direct plug-in Adapter Cable only if you have specified your transceiver type on ordering the antenna. In this case described above procedure is all you need to start using your antenna. You do not need to use CPS9300 CD and USB cable included. Keep those accessories in a safe place for future use.

PC AIDED CONFIGURATION: If you want to change your transceiver to another type please install CPS9300 Antenna Configuration Software on your PC. Ignore all your PC firewall messages and install “Normally”. Without connecting PC to the antenna, start the program and find correct Adapter Cable in the ACCESSORIES page of the CPS9300 and order it from your dealer. When new Adapter Cable is received, install it instead of old one, start CPS9300 program and connect antenna to your PC using USB cable provided. Select your new transceiver from CPS9300 menu and confirm selection by pressing button WRITE. Disconnect USB cable and use your antenna with new transceiver normally.

CPS9300 ANTENNA CONFIGURATION SOFTWARE: If your antenna received with Universal Adapter (open wire) Cable 9300.B17.005 and you are in doubt how to configure antenna for use with your transceiver

please read CPS9300 INSTRUCTIONS. In most cases you will be able to use your antenna even without logic interfacing with your transceiver using only RF-power in SMART MODE until you receive or construct suitable Adapter Cable. Carefully read instructions or contact your dealer for assistance.

Useful Tips: 1. When the antenna is not being used, it is recommended that you remove whip section. 2. Check all bolted joints and cables/connectors regularly. 3. To improve communications on short (30-300km) distances order optional NVIS-kit. 4. Use original accessories and feel free to ask for assistance.