

PRODUCT WARRANTY

GENERAL WARRANTY. PCTEL, Inc. ("PCTEL") warrants that the PCTEL products furnished herewith (the "Products") shall be free from defects in material and workmanship for a period of two (2) years from the date of shipment by PCTEL under normal use and operation; provided, however, that MPRC and MPD parabolic reflector antennas and Bluewave series antennas are similarly warranted for five (5) years from the date of shipment by PCTEL. PCTEL's sole and exclusive obligation under the foregoing warranty shall be, at its option, to repair or replace any defective Product that fails during the warranty period. The expense of removal and reinstallation of any item is not included in this warranty. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE WITH RESPECT TO THE PRODUCTS. Repair or replacement in the manner provided herein shall be the sole and exclusive remedy of the buyer for breach of warranty and shall constitute fulfillment of all liabilities of PCTEL with respect to the quality and performance of the Product. EXCEPTIONS. PCTEL DOES NOT WARRANT THAT THE OPERATION OF THE PRODUCTS IS ERROR-FREE OR THAT OPERATION WILL BE UNINTERRUPTED. IN NO EVENT SHALL PCTEL BE LIABLE FOR: (i) ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES TO THE BUYER OR ANY THIRD PARTY ARISING OUT OF THESE TERMS AND CONDITIONS OR ANY DEFECTIVE PRODUCT WHETHER THE DEFECT IS WARRANTED AGAINST OR NOT, WHETHER THE CLAIM IS BASED UPON CONTRACT, TORT, STRICT LIABILITY OR OTHERWISE, (ii) ANY AMOUNT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT, (iii) SYSTEM PERFORMANCE, INCLUDING COVERAGE; (iv) THE BUYER'S SELECTION OF PRODUCTS FOR THE BUYER'S APPLICATION; AND/OR (iv) FAILURE OF PRODUCTS TO MEET GOVERNMENT OR REGULATORY REQUIREMENTS. The foregoing general warranty shall apply only if: (a) the Product has been properly installed and used at all times in accordance, and in all material respects, with the applicable Product documentation; (b) no modification, alteration or addition has been made to the Product by persons other than PCTEL or PCTEL's authorized representatives or otherwise approved by PCTEL in writing; and (c) the Product has not been subjected to misuse, neglect or unusual physical, electrical or electromagnetic stress, or some other type of accident. WARRANTY PROCEDURES: In the event of a warranty claim, the buyer must contact PCTEL to arrange for Product return. No Product will be accepted for replacement or repair without first obtaining a Return Material Authorization (RMA) number from PCTEL Customer Service by telephone: 630.372.6800 or by email to antenna.techsupport@pctel.com. PCTEL reserves the right to inspect all defective Products. Product returned without an RMA number will not be processed and will be returned to the buyer freight collect. The warranty period of any repaired or replaced Product shall not extend beyond its original term. Equipment to be repaired or replaced under warranty is to be returned, freight prepaid, to the following address with the assigned RMA number displayed on the box:

PCTEL, Inc.
Attention: RMA Coordinator
471 Brighton Drive
Bloomington, Illinois 60108 U.S.A.



Through-hole Mount GPS L1 Antenna Installation Instructions

©2009 PCTEL, Inc.
471 Brighton Drive, Bloomington, Illinois 60108-3102
All Rights Reserved

Part #: MIS-3200GPS Rev A
Printed in China

Introduction

The product described in this section is supplied with the antenna, coaxial cable and mounting hardware. Figure 1 is an exploded view and parts list of the antenna.

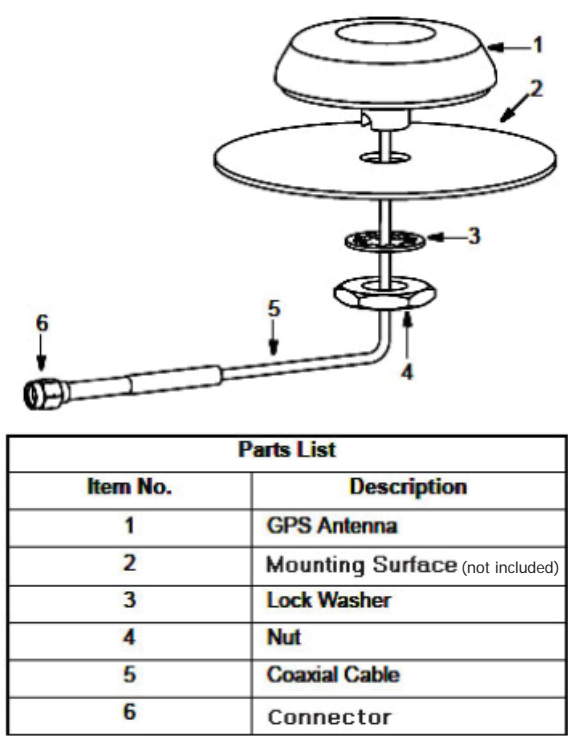


Figure 1. Exploded View and Parts List of the Antenna

General

The installation procedure which follows is for a typical passenger car. The procedure may vary slightly with the type of vehicle on which the antenna is to be installed. Generally speaking, however, the procedures outlined are of a universal nature.

NOTE: The antenna should be mounted on a flat metal roof of 0.02 to 0.04 inch thickness.

The following item reference numbers refer to the item numbers in Figure 1.

1. First, select a location for the antenna. This location should have no physical obstruction near antenna such that the GPS antenna has a clear view of the sky, no electrical interference and should be located 3 feet away from any RF transmitting antenna.

2. The headlining may be probed with the fingers to make sure that all points of obstruction are avoided.
3. Remove the headlining from the installation area.

Single Wall Construction

1. Using the desired location on the roof for the GPS antenna, drill a pilot hole down through the roof.
2. Using the pilot hole location, carefully drill a 9/16-inch hole from the top of the roof until the saw bottoms.

IMPORTANT: For proper seating of the GPS unit and nut, deburr and scrape any foreign matter from underside of hole out to at least 1/8-inch from edge.

3. Determine the routing of the cable from the antenna mounting base to the radio set; then remove the molding and trim necessary to facilitate pulling the cable through.
4. Remove washer (3) and nut (4) from assembly.
5. Insert the connector (6) into the hole in the roof and pull the wire through.
6. Insert the antenna shaft (1) into the hole from the top and press firmly to secure the antenna in place.
7. From inside the vehicle, slide the lock washer (3) and nut (4) over the connector. Continue sliding this assembly along the entire length of the coaxial cable (5) until you reach the antenna bushing.
8. Thread the nut (4) onto the antenna bushing and tighten as far as possible by hand.
9. Securely tighten the nut (4) using a 1-inch open-end wrench or adjustable wrench while holding the antenna in place.
10. Route the cable between roof and the radio set.
11. Take up the slack in the cable and replace the headlining retainer molding.
12. Replace headlining if removed.

Double Wall Construction

1. Using the desired location on the roof for the GPS antenna, drill a pilot hole down through the roof.
2. Using the pilot hole location, carefully drill a 9/16-inch hole from the top of the roof until the saw bottoms.
3. Using a 1-3/4-inch diameter hole saw cut a hole in the inside layer of the metal.
4. Remove the metal and filler from this 1-3/4-inch diameter hole.
5. Complete the installation per installation procedure for vehicles with single wall construction.