

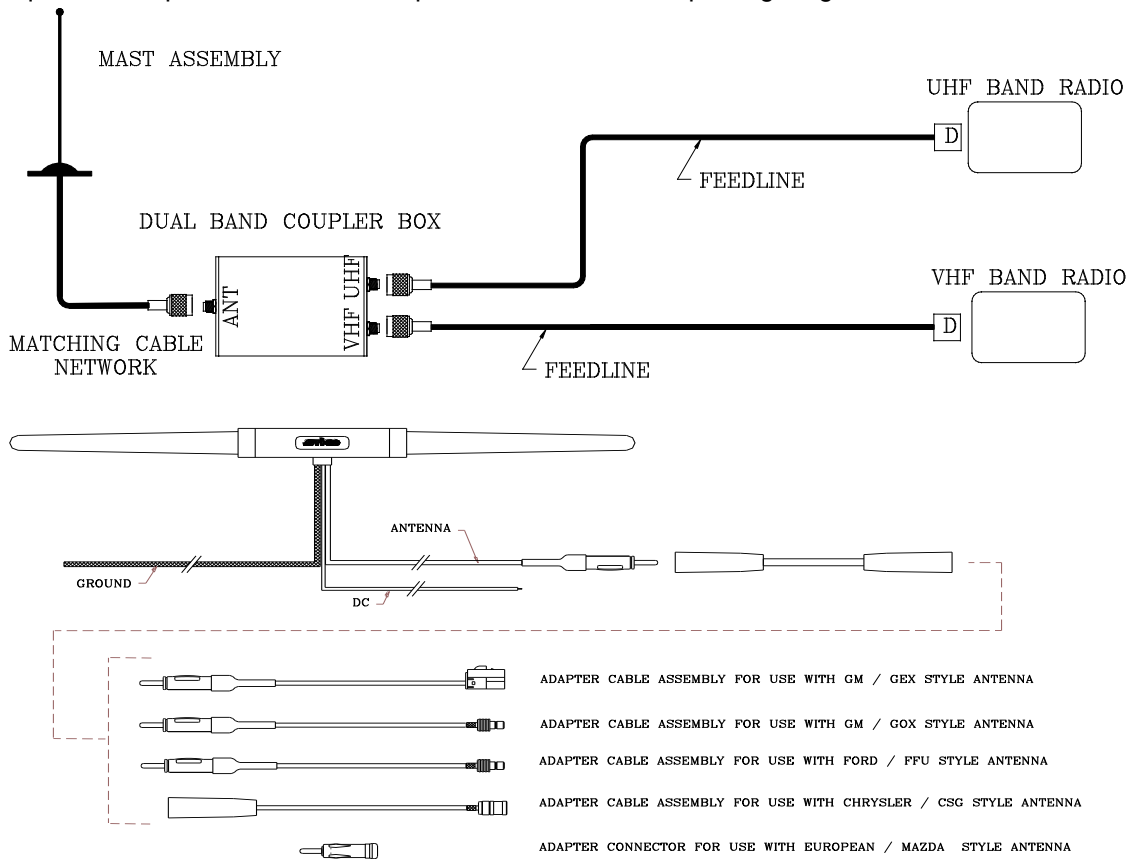


DEM Roof Mounted Installation Considerations Dual band, VHF/UHF Antennas

- EURO-DB-VHF/UHFA-EA: 150-174 MHz IN VHF / 370-406 MHz IN UHF
- EURO-DB-VHF/UHF-EA: 150-174 MHz in VHF / 406-430 MHz in UHF
- EURO-DB-VHFL/UHFM-EA: 150-162 MHz IN VHF / 450-470 MHz IN UHF
- EURO-DB-VHFH/UHFM-EA: 162-174 MHz IN VHF / 450-470 MHz IN UHF
- EURO-DB-VHF/UHFH-EA: 150-174 MHz IN VHF / 480-512 MHz IN UHF
- EURO-DB-VHF/UHFM-EA: 150-174 MHz IN VHF / 450-470 MHz IN UHF
- EURO-DB-VHFA/UHFL-EA: 136-151 MHz IN VHF / 406-450 MHz IN UHF

VERIFY:

1. **Part List:** The system package includes matching cable network, feedline, and connectors if applicable. Use only components supplied with the antenna system (Refer to Figure 1-Parts List).
2. **Bandwidth:** VHF/UHF Broadband antennas operate within the range of 150-174 MHz, and 406-512 MHz. **Extended tuning ranges are available.** Be certain that the antenna was tuned to the frequencies required. The antenna specifications will be on package tag.





INSTALLATION:

I. Procedure:

- a. Remove "one way clips" on the inside roof panel near the window and set aside.
- b. Remove OEM antenna connection for the AM/FM radio, let hang.
- c. Remove the original antenna using a wrench to loosen nut.
- d. Position the disguised antenna mount into hole from the top. It helps to have an extra set of hands to hold and align the new antenna.
- e. Attach matching network to coupler port marked "ANT".
- f. Attach feedlines to VHF and UHF ports on coupler. Trim excess cable, attach connectors and then attach to corresponding VHF and UHF two-way radios.
- g. Install the GLMT-AMFM antenna in the center of the rear window near the top. This will allow access to the +12VDC power feed in the vehicle roof and attachment of the AM-FM antenna lead to the vehicle harness AM/FM feed to the car radio.
- h. Attach the +12vdc power lead from the GLMT-AMFM antenna to the +12vdc power lead, disconnected or unplugged, from the vehicle wiring harness, at the beginning of the installation, with the electrical splice connector supplied with the unit.
- i. Attach the ground lead from the AM/FM antenna to any appropriate grounding location.
- j. Choose the appropriate Glass mount AMFM antenna lead adapter cable assembly for the vehicle harness and connect it to the AM/FM antenna connection removed from the OEM antenna at the beginning of the installation.
- k. Attach the Glass mount AMFM antenna lead to the vehicle harness AM/FM antenna connection removed from the OEM antenna at the beginning of the installation.
- l. Conceal excess cabling under headliner.

Before re-installing trim to the vehicle, it is recommended that testing is performed. (See below)

Note: *be careful not to tear the sheath of cable when pulling through sharp body panels. If a hole appears in the cable's sheath, cover with several layers of a high quality electrical tape.*

TESTING:

Installation testing, if required, must take place at the transmitter side of the feedline. This will ensure that the cable connectors and cables have the proper continuity. Make sure all doors; hood, and trunk are closed.

Note: *Some vehicles are sensitive to VHF frequencies. STI-CO suggests that you isolate feedline and check for unwanted interference with the ignition switch on.*

1. **Reflective Power:** A measurement of reflective power using a wattmeter, you can expect up to 11% reflected power. When results are greater than 11%, recheck grounding.
2. **SWR:** A measurement of SWR (standing wave ratio) will yield better than 2:1. If greater than 2:1, recheck grounding.