

(6) Install the antenna into the radio and install the radio.

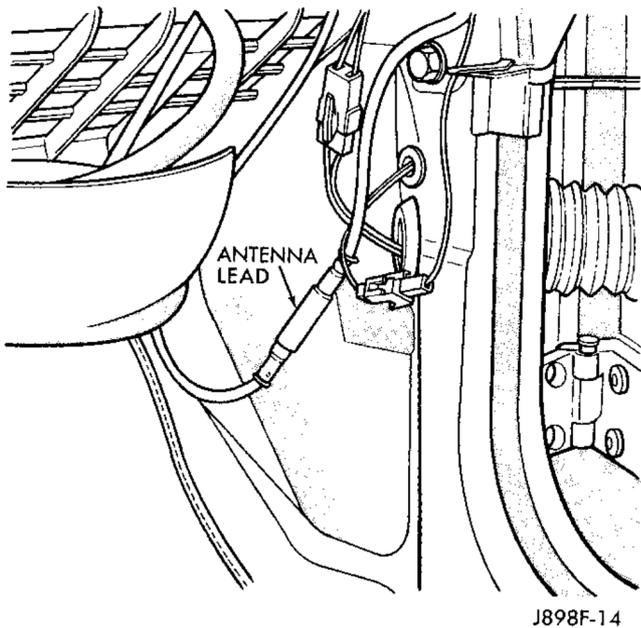


Fig. 3 Disconnect Antenna Lead

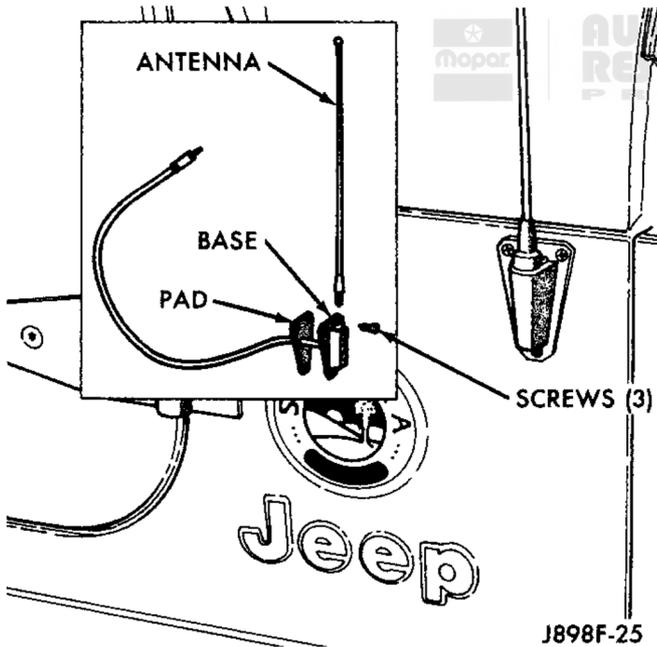


Fig. 4 Antenna Removal/Install - YJ

**SJ**

- (1) Using a thin blade tool, pry off the antenna cap.
- (2) Remove four screws holding the antenna pad to the body.
- (3) Remove the radio as described in Radio Replacement.
- (4) Pull the antenna cable grommet out of the kick panel and remove the antenna.

(5) To install an antenna cable, reverse the removal procedures.

**ANTENNA TESTS**

Antenna ground continuity is checked with an ohmmeter. The following four tests are required (Fig. 5):

- Mast-to-ground test 1.
- Tip of mast-to-tip of conductor test 2.
- Body ground-to-battery ground test 3.
- Body ground-to-coaxial shield test 4.

Ohmmeter test lead connections are shown in the following schematic.

**Mast-To-Ground Test 1.**

Test 1. determines if the antenna mast is insulated from the base. Procedure is as follows:

- Connect one ohmmeter lead to the tip of the antenna mast and the other lead to the antenna base.
- With the antenna disconnected from the radio, there should not be continuity.

**Tip Of Mast-To-Tip Of Conductor Test 2.**

Test 2. checks the antenna for an open circuit as follows:

- Disconnect the antenna cable from the radio.
- Connect one ohmmeter test lead to the tip of the mast and the other lead to the tip of the antenna cable lead-in (the part inserted into the radio).
- Continuity should exist (ohmmeter should only register a fraction of an ohm). High or infinite resistance indicates damage to the base and cable assembly which should be replaced.

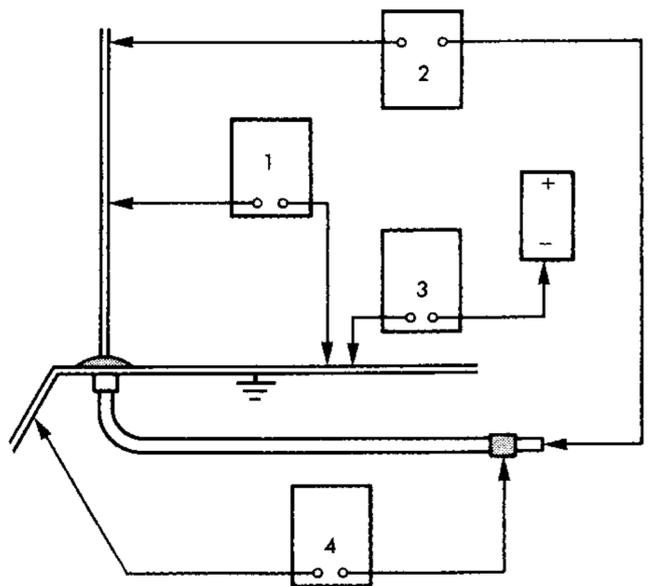


Fig. 5 Antenna Tests

**Body Ground-To-Battery Ground Test 3.**

Test 3. checks condition of the vehicle body ground connection as follows:

- Connect one ohmmeter test lead to the vehicle fender and the other lead to the battery negative post.
- Resistance should be less than one ohm.
- If resistance is more than one ohm, check the braided ground strap connected to the engine and vehicle body for being loose, corroded, or damaged. Repair as necessary.

**Body Ground-To-Coaxial Shield Test 4.**

Test 4. checks condition of the ground between the antenna base and vehicle body as follows:

- Connect one ohmmeter test lead to the fender and the other lead to the crimp on the coaxial shield.
- Resistance should be less than one ohm.
- If resistance is more than one ohm, replace the antenna base attaching screws with new cadmium plated screws.



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