

YEAR
1990 - 95
1992 - 94

MODEL
INTEGRA
VIGOR

VIN APPLICATION
ALL

BULLETIN NO.
91-053



Poor Reception or Interference on the Radio

(Supersedes 91-053, "Poor Reception on AM Band" dated October 27, 1992)

SYMPTOM

1. Poor reception.
2. Electrical noise or engine noise from the speakers with the radio on.

PROBABLE CAUSE

1. Corrosion of the antenna mast or tube or a damaged coaxial cable can cause poor reception.
2. Poor grounding of the antenna collar or tube or a damaged coaxial cable can cause electrical noise or static over the radio speakers.

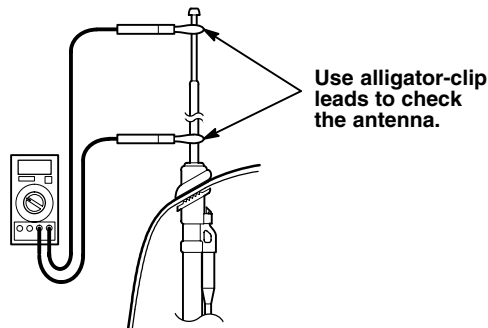
DIAGNOSIS

The customer should be interviewed to get a thorough description of the symptoms and the conditions under which they occur (location, station, etc.).

NOTE: The information in this Service Bulletin applies to the 1990-95 Integra and the 1992-94 Vigor models. Where operations are similar, only the 1994-95 Integra model is illustrated; however, the 1990-93 Integra and the 1992-94 Vigor models are similar.

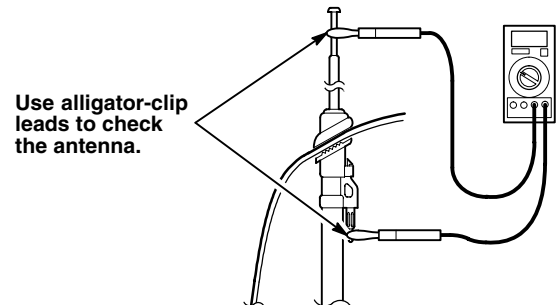
Diagnosis 1. Poor Reception

1. Turn the ignition switch ON; then turn the radio on to extend the antenna mast.
2. Measure the resistance between the top section and the bottom section of the antenna mast.



- If the resistance is more than 10 ohms, go to CORRECTIVE ACTION, Antenna Mast Replacement.
- If the resistance is less than 10 ohms, continue with step 3.

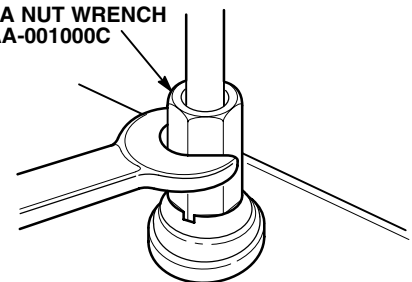
3. Disconnect the coaxial cable from the antenna.
4. Measure the resistance between the top section of the antenna and the center pin of the antenna male plug.



- If the resistance is less than 10 ohms, go to Coaxial Cable Test.
- If the resistance is more than 10 ohms, continue with step 5.

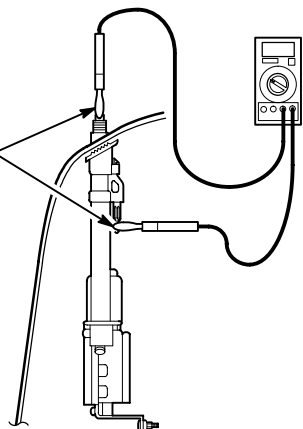
5. Remove the antenna mast nut with the special tool; then remove the antenna mast.

ANTENNA NUT WRENCH
T/N 07JAA-001000C



6. Measure the resistance between the center pin of the antenna male plug and the threaded portion of the antenna tube.

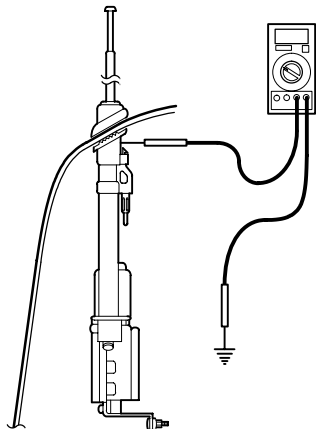
Use alligator-clip leads to check the antenna.



- If the resistance is less than 10 ohms, go to CORRECTIVE ACTION, Antenna Mast Replacement.
- If the resistance is more than 10 ohms, go to CORRECTIVE ACTION, Antenna Tube Replacement.

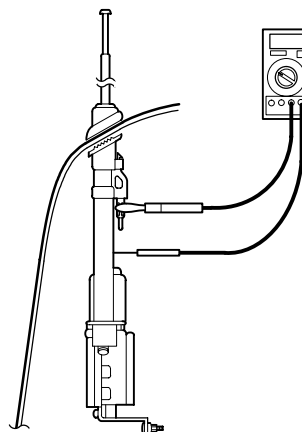
Diagnosis 2. Electrical Noise or Interference

1. Disconnect the coaxial cable from the antenna.
2. Measure the resistance between the antenna collar and body ground.



- If the resistance is more than 1 ohm, go to CORRECTIVE ACTION, Antenna Collar Replacement.
- If the resistance is less than 1 ohm, continue with step 3.

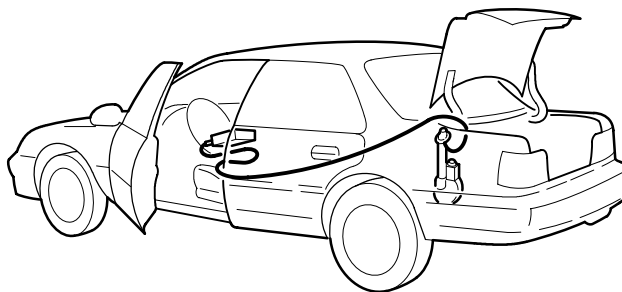
3. Measure the resistance between the antenna tube and the outside contact of the antenna jack.



- If the resistance is more than 1 ohm, go to CORRECTIVE ACTION, Antenna Tube Replacement.
- If the resistance is less than 1 ohm, continue with Coaxial Cable Test.

Coaxial Cable Test

1. Test drive the car to verify the customer's description of the symptom.
 - If the symptom cannot be reproduced, contact the customer for more information regarding the symptom.
 - If the symptom can be reproduced, continue with step 2.
2. Disconnect the power antenna coaxial cable from the power antenna and from the radio.
3. Install a substitute coaxial cable (P/N 39159-SD4-A04) to the antenna; then run the substitute cable on the outside of the car, and connect it to the radio.



NOTE: When substituting the coaxial cable on a 1994-95 Integra, be sure to plug the substitute cable directly into the back of the radio. Do not connect the substitute cable into the short coaxial cable that connects the rear coaxial to the radio; that could give you a faulty test result.

4. Test the radio.
 - If the symptom has gone away, install a new coaxial cable.
 - If the symptom persists, the problem is not with the antenna system. Disconnect the substitute cable, reconnect the original coaxial cable, and continue troubleshooting the audio system.

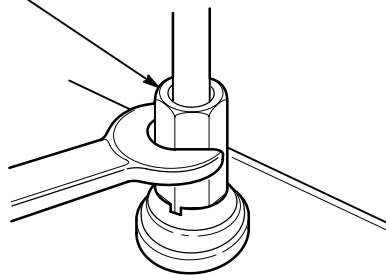
CORRECTIVE ACTION

Replace the parts, listed under PARTS INFORMATION, as directed by the results of the diagnostic procedure.

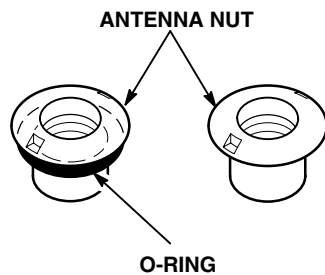
Antenna Mast Replacement

1. Remove the antenna nut with the special tool.

ANTENNA NUT WRENCH
T/N 07JAA-001000C

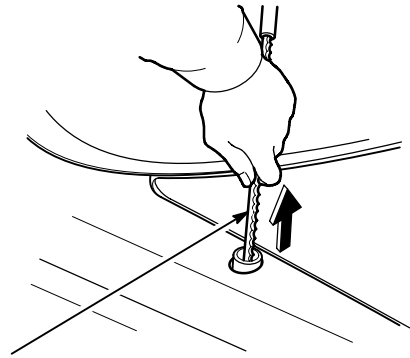


2. Inspect the outer diameter of the antenna nut.



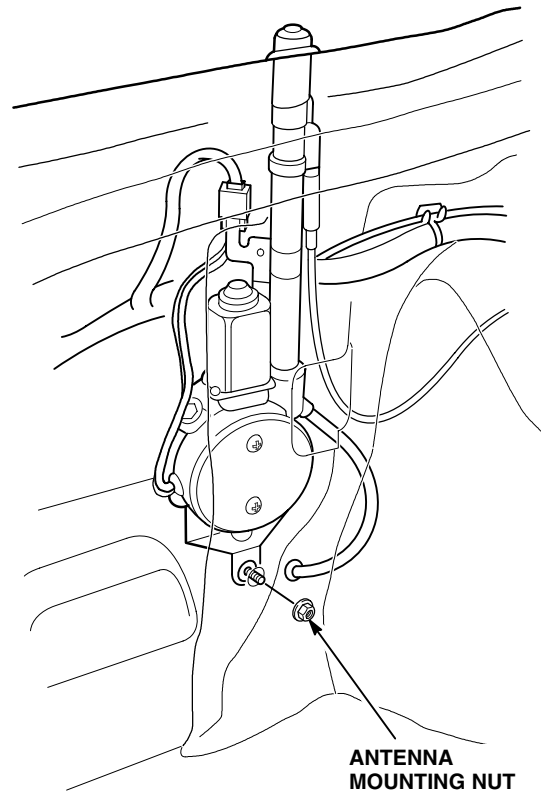
- If the antenna nut does not have an O-ring around the outer diameter, go to Antenna Mast Kit Replacement.
 - If the nut has an O-ring around the outer diameter, continue with step 3.
3. Turn the ignition switch ON; then turn the radio on to extend the antenna mast.

4. Pull the antenna mast out of the antenna tube.

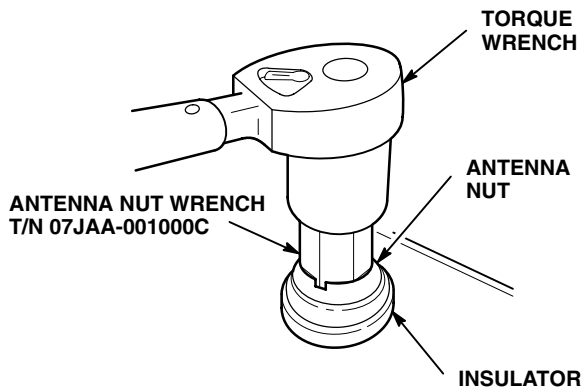


**ANTENNA
MAST**

5. Insert the new antenna mast assembly into the antenna tube; then turn the radio off to retract the antenna mast.
6. Loosen the antenna motor mounting nut(s).



7. Reinstall the antenna nut, and tighten it to 2.3 N·m (0.23 kg·m, 20 lb-in).

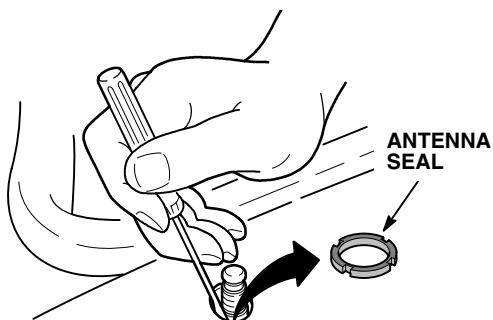


8. Tighten the antenna motor mounting nut(s).

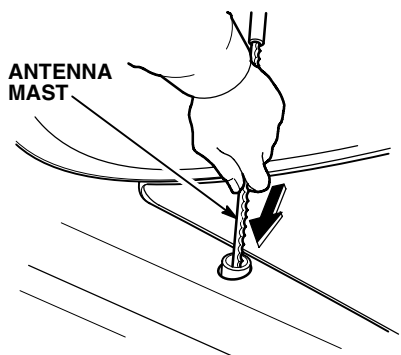
Antenna Mast Kit Replacement

The Antenna Mast Kit includes the mast, an improved antenna nut (O-ring type), and an insulator that provides a seat for the O-ring.

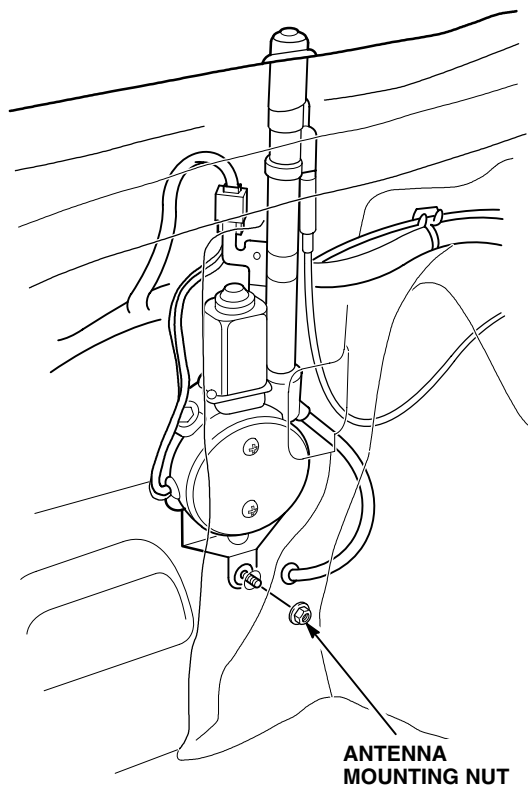
1. Turn the ignition switch ON; then turn the radio on to extend the antenna mast.
2. Pull the antenna mast out of the antenna tube; then discard the antenna mast.
3. Remove the antenna seal, and discard it.



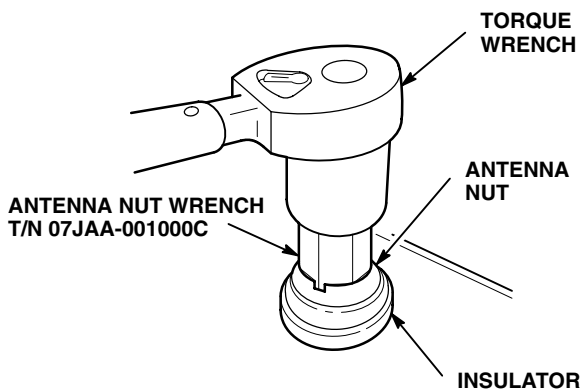
4. Insert the new antenna mast into the antenna tube; then turn the radio off to retract the antenna mast.



5. Loosen the antenna motor mounting nut(s).



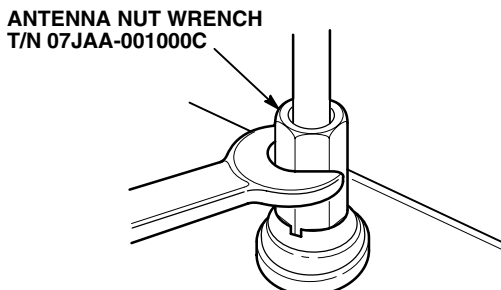
6. Reinstall the antenna nut, and tighten it to 2.3 N·m (0.23 kg·m, 20 lb-in).



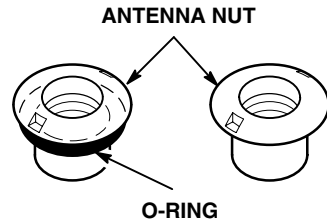
7. Tighten the antenna motor mounting nut(s).

Antenna Tube Replacement (Disassembly)

1. Remove the antenna nut with the special tool.

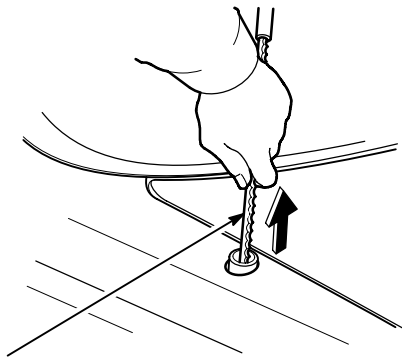


2. Inspect the antenna nut.



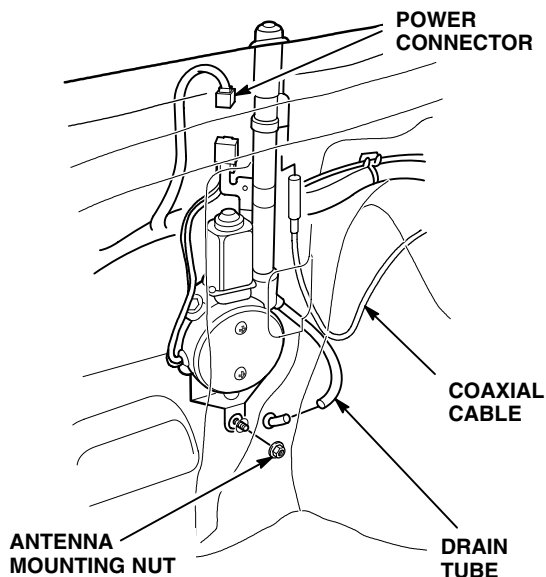
- If the antenna nut has an O-ring, do not install an antenna seal in the replacement collar.
- If the antenna nut does not have an O-ring, you must install an antenna seal in the replacement collar.

3. Turn the ignition switch ON; then turn the radio on to extend the antenna mast.
4. Remove the antenna mast from the antenna tube, and retain the mast.

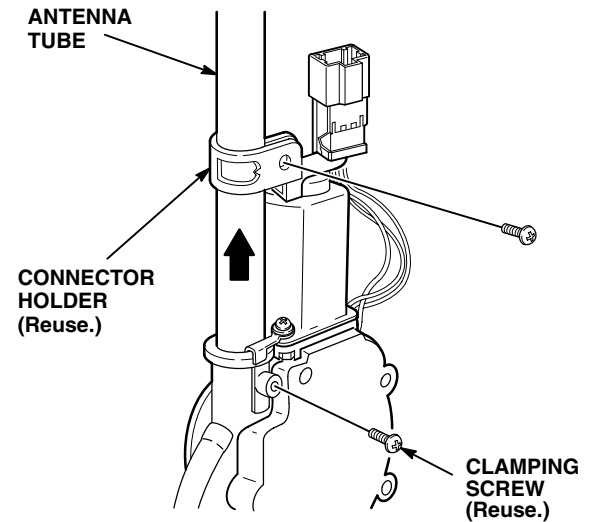


ANTENNA MAST

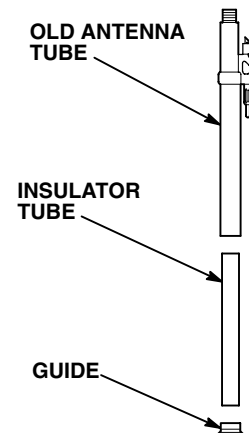
5. Disconnect the coaxial cable, the power connector, and the drain tube from the antenna assembly. Loosen the antenna motor mounting nut(s); then remove the antenna assembly from the car.



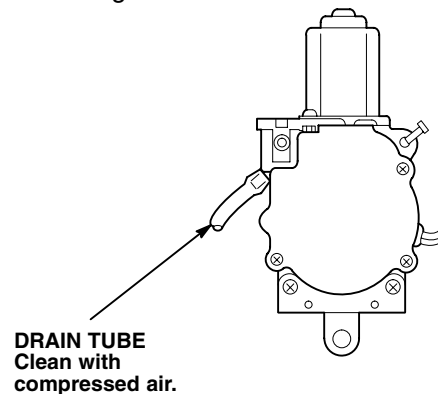
6. Remove the connector holder (if applicable) and the clamping screw that holds the antenna tube to the antenna assembly. Pull the antenna tube out of the antenna assembly.



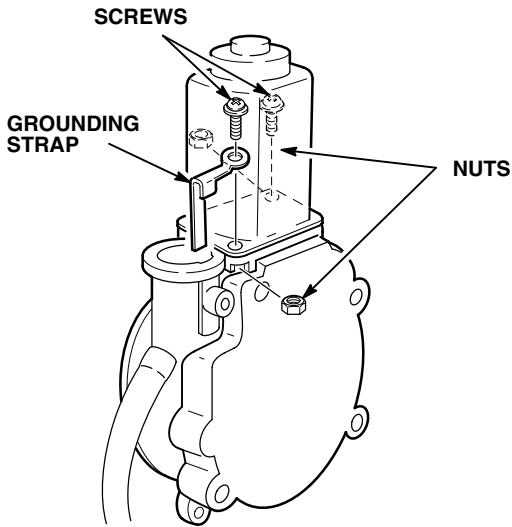
7. Remove the guide and the insulator tube from the old antenna tube. Thoroughly clean the guide and the insulator tube with contact cleaner to remove any dirt and grease.



8. Clean the antenna assembly drain tube with compressed air. Make sure that the tube is clear of dirt and grease.



- Remove the screws and nuts holding the grounding strap to the antenna motor assembly; then discard the grounding strap. Using a small wire brush, clean the area on the motor housing where the grounding strap contacts the motor.

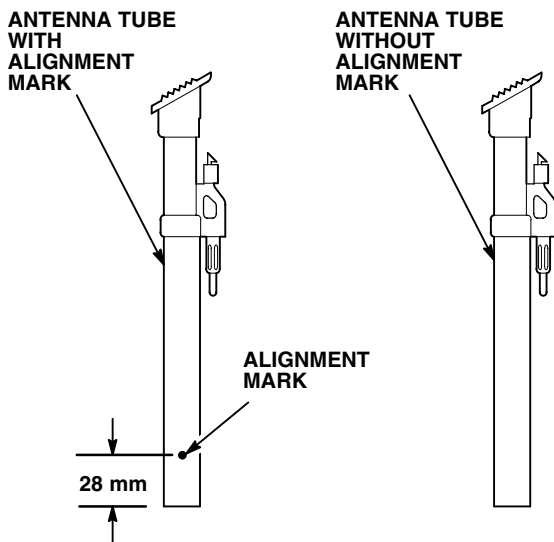


- Install the new screws, nuts, and grounding strap provided with the replacement tube.
- Install the cleaned insulator tube and guide into the replacement antenna tube.

Antenna Tube Replacement (Installation)

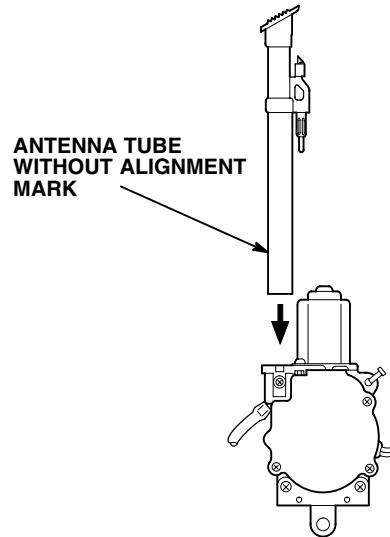
NOTE: Proper alignment of the antenna tube is important so that the antenna collar fits the contour of the car body. If the antenna tube is not properly aligned, the antenna collar may cause the body to deform when the antenna nut is tightened.

- Inspect the replacement antenna tube.

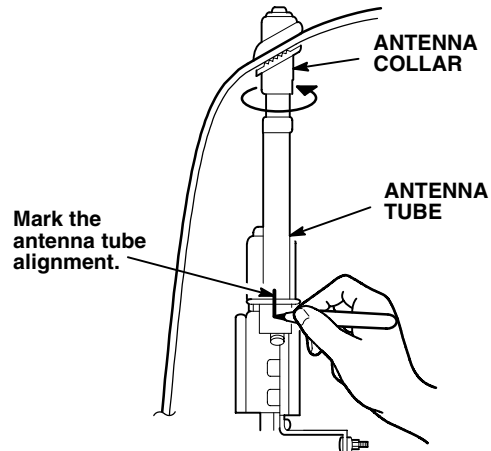


- If the replacement antenna tube has an alignment mark, go to step 18.
- If the replacement antenna tube does not have an alignment mark, continue with step 13.

- Insert the new antenna tube without an alignment mark into the antenna assembly. Install the clamping screw removed in step 6 into the antenna assembly, but do not tighten the clamping screw at this time.

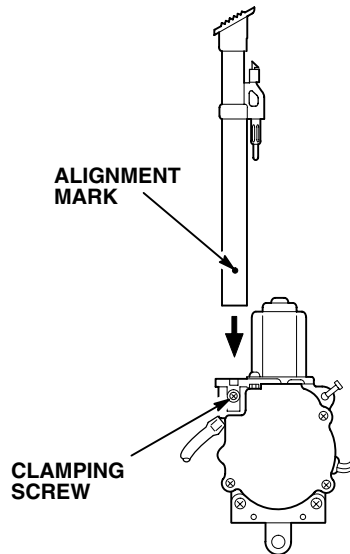


- Temporarily install the antenna assembly in the car. Adjust the antenna tube so that the collar fits the contour of the body.

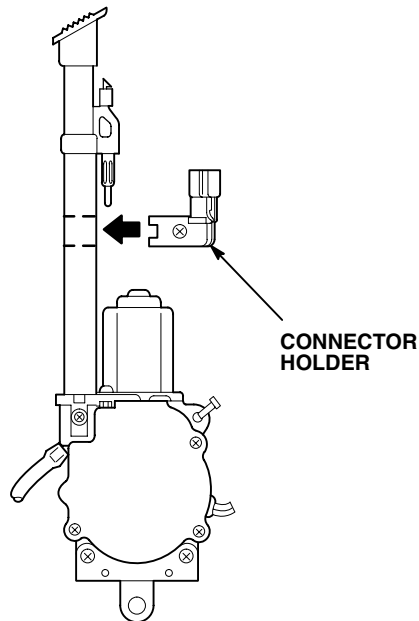


- With the antenna tube properly adjusted, mark the tube and the antenna assembly with a felt-tip marker to note the alignment.
- Remove the antenna assembly from the car.
- Check the alignment of the antenna tube to the antenna assembly; then tighten the clamping screw. Once you have clamped the tube in place, go to step 19.

18. Insert the antenna tube with an alignment mark into the antenna assembly. Align the mark on the antenna tube with the clamping screw hole on the antenna assembly; then secure the tube with the clamping screw removed in step 6.

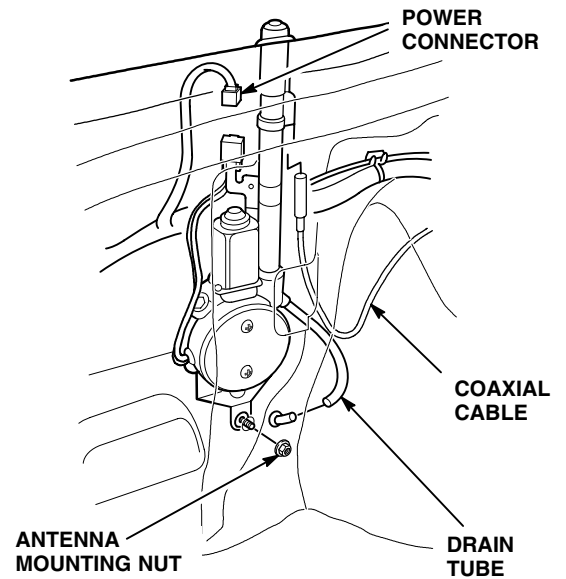


19. If applicable, install the connector holder onto the antenna tube as shown, and tighten the screw.

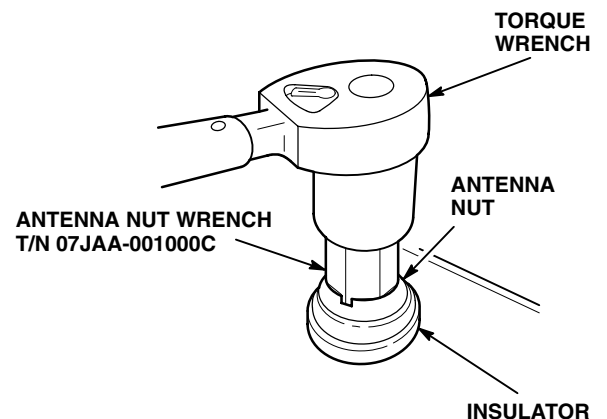


20. If the antenna nut did not have an O-ring on it, install a new collar seal into the antenna collar.

21. Install the antenna assembly into the car, but do not tighten the antenna motor mounting nut(s) at this time.



22. Connect the power connector, the coaxial cable, and the drain tube to the antenna assembly.
23. Insert the antenna mast into the antenna tube; then turn the radio off to retract the antenna mast.
24. Reinstall the antenna nut; then tighten it to specified torque using the special tool and a torque wrench.
- 1990-93 Integra: 2.0 N·m (0.20 kg·m, 17 lb·in)
 - 1994-95 Integra: 2.3 N·m (0.23 kg·m, 20 lb·in)
 - 1992-94 Vigor: 2.3 N·m (0.23 kg·m, 20 lb·in)

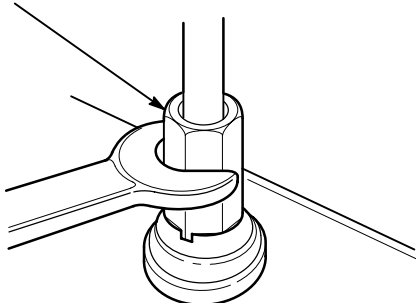


25. Tighten the antenna motor mounting nut(s).

Antenna Collar Replacement

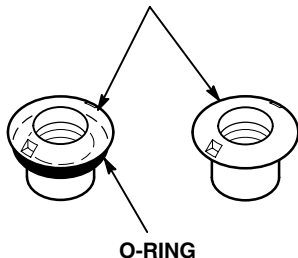
1. Remove the antenna nut with the special tool.

**ANTENNA NUT WRENCH
T/N 07JAA-001000C**



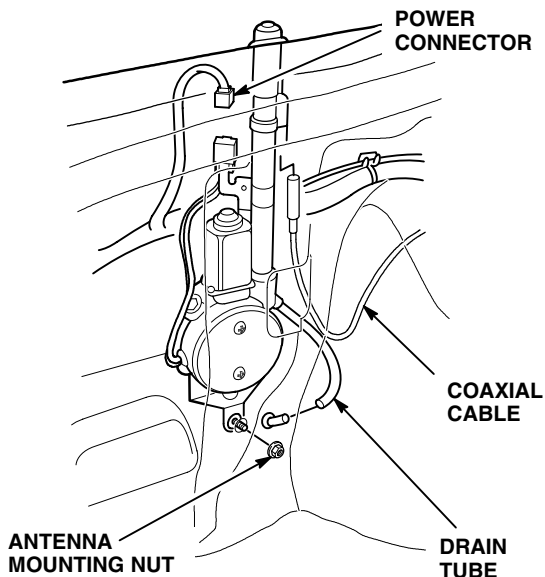
2. Inspect the antenna nut.

ANTENNA NUT



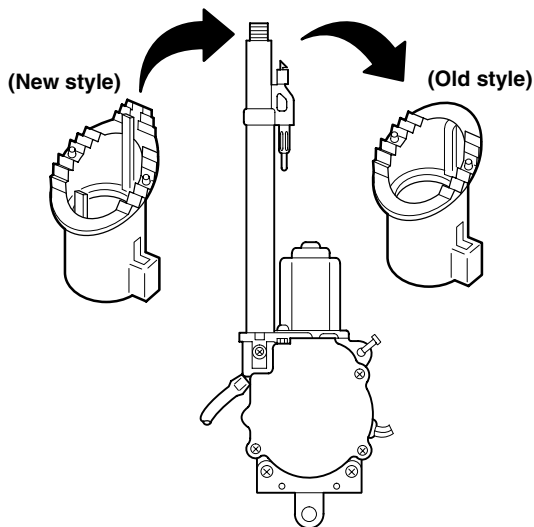
- If the antenna nut has an O-ring, do not install an antenna seal in the replacement collar.
- If the antenna nut does not have an O-ring, you must install an antenna seal in the replacement collar.

3. Disconnect the coaxial cable, the power connector, and the drain tube from the antenna assembly. Loosen the antenna motor mounting nut(s); then remove the antenna assembly from the car.

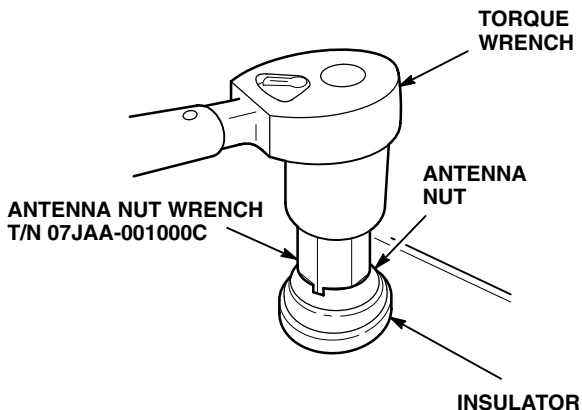


4. Remove and discard the antenna collar.

ANTENNA COLLAR



5. Install the new antenna collar onto the antenna tube.
6. If the antenna nut did not have an O-ring on it, install a new collar seal into the antenna collar.
7. Install the antenna assembly into the car, but do not tighten the antenna motor mounting nut(s) at this time.
8. Connect the power connector, the coaxial cable, and the drain tube to the antenna assembly.
9. Reinstall the antenna nut; then tighten it to specified torque using the special tool and a torque wrench.
 - 1990-93 Integra: 2.0 N·m (0.20 kg·m, 17 lb·in)
 - 1994-95 Integra: 2.3 N·m (0.23 kg·m, 20 lb·in)
 - 1992-94 Vigor: 2.3 N·m (0.23 kg·m, 20 lb·in)



10. Tighten the antenna motor mounting nut(s).

PARTS INFORMATION

The replacement parts are listed by year and model. If the car you are repairing is equipped with the gold finish kit, you will need to order a new gold finish antenna nut.

1990-93 Integra 3-Door

Antenna Mast Assembly:
P/N 39152-SM4-A03

Antenna Mast Kit:
P/N 39177-SK7-305

Antenna Nut (O-ring type):
P/N 39154-SM4-A01

Gold Finish Antenna Nut (O-ring type):
P/N 08F20-ST7-20010

Insulator:
P/N 39156-SK7-A02

Antenna Tube:
P/N 39179-SK7-A01

Antenna Collar:
P/N 39168-SK7-A01

Collar Seal:
P/N 39169-SV4-003

Coaxial Cable:
P/N 39159-SK7-003

1990-93 Integra 4-Door

Antenna Mast Assembly:
P/N 39152-SM4-A03

Antenna Mast Kit:
P/N 39177-SK8-305

Antenna Nut (O-ring type):
P/N 39154-SM4-A01

Gold Finish Antenna Nut (O-ring type):
P/N 08F20-ST7-20010

Insulator:
P/N 39156-SK8-A02

Antenna Tube:
P/N 39179-SK8-A01

Antenna Collar:
P/N 39168-SK8-A01

Collar Seal:
P/N 39169-SV4-003

Coaxial Cable:
P/N 39159-SK7-003

1994-95 Integra 3-Door

Antenna Mast Assembly:
P/N 39152-SM4-A03

Antenna Nut (O-ring type):
P/N 39154-SM4-A01

Gold Finish Antenna Nut (O-Ring Type):
P/N 08F20-ST7-20010

Insulator:
P/N 39156-ST7-003

Antenna Tube:
P/N 39179-ST7-A12

Antenna Collar:
P/N 39168-ST7-A01

Front Coaxial Cable (short):
P/N 39156-ST7-A01

Rear Coaxial Cable (long):
P/N 39159-ST7-003

1994-95 Integra 4-Door

Antenna Mast Assembly:
P/N 39152-SM4-A03

Antenna Nut (O-ring type):
P/N 39154-SM4-A01

Gold Finish Antenna Nut (O-ring type):
P/N 08F20-ST7-20010

Insulator:
P/N 39156-ST8-003

Antenna Tube:
P/N 39179-ST8-A12

Antenna Collar:
P/N 39168-ST8-A01

Front Coaxial Cable (short):
P/N 39156-ST7-A01

Rear Coaxial Cable (long):
P/N 39159-ST8-003

1992-94 Vigor

Antenna Mast Assembly:
P/N 39152-SL5-A03

Antenna Mast Kit:
P/N 39177-SL5-305

Antenna Nut (O-ring type):
P/N 39154-SM4-A01

Gold Finish Antenna Nut (O-ring type):
P/N 08F20-ST7-20010

Insulator:
P/N 39156-SL5-A02

Antenna Tube:
P/N 39179-SL5-A02

Antenna Collar:
P/N 39169-SV4-003

Coaxial Cable:
P/N 39159-SL5-A01

WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

Out of warranty: Any repair performed after warranty expiration may be eligible for goodwill consideration by the District Technical Manager or your Zone Office. You must request consideration, and get a decision, before starting work.

OPERATION NUMBER	DESCRIPTION	FLAT RATE TIME
015120	Mast Assembly Replacement (Includes diagnosis)	0.3 hour
015125	Mast Kit Replacement (Includes diagnosis)	0.3 hour
015126	Antenna Tube Replacement With Alignment Mark (Includes diagnosis)	0.3 hour
015129	Antenna Tube Replacement Without Alignment Mark (Includes diagnosis)	0.4 hour
015127	Antenna Collar Replacement (Includes diagnosis)	0.2 hour
015128	Coaxial Cable Replacement (Includes drive test and diagnosis)	0.7 hour

Failed P/N: Use the part number of the part that failed.

Contention code: F99

Defect code: Select the appropriate defect code:
018 – Broken or chipped, in two or more pieces
030 – Binding or sticking
068 – Open or burned-out circuit