

# Antenna Mast Replacement

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*FD RX7*

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## 1 Overview

This procedure will show how to remove the antenna assembly so it can be disassembled to remove any broken antenna mast as one can't simply stuff a new mast into an antenna assembly that has any remainder of the old mast.

It might be possible to replace the antenna by simply removing the tool cover in the trunk, removing the jack, and then accessing the single 10mm nut that holds the antenna to the car and disconnecting the electrical connector, antenna connection, and twisting off the outside cap, but that would most likely be possible only after having done one recently and being familiar with exactly how to fish it out blindly.

New Antenna Mast, part number FB01-66-A90

## 2 Remove Trunk Trim

### 2.1 Tape Around Antenna and Use Right Angle Needle Nose to Unscrew Cover

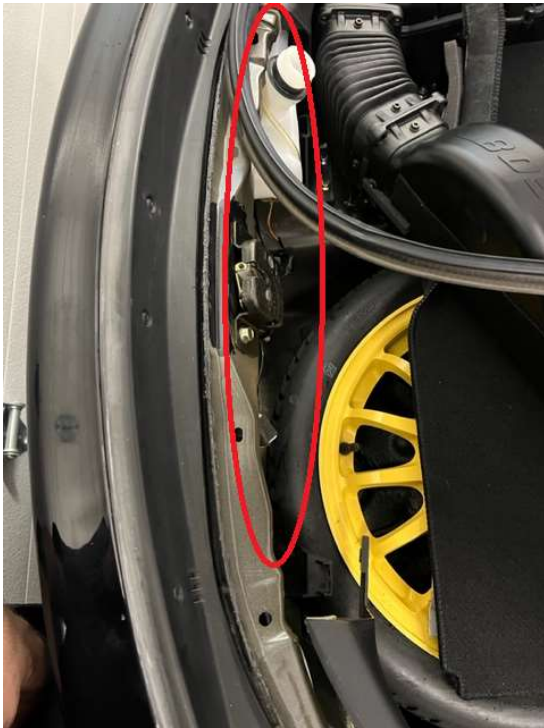
Then use right angle needle nose and remove cap then disconnect antenna wire and power connector and fish it out.

Use lots of tape and be careful to not scratch the paint.

### 2.2 Peel back trunk weatherstripping and remove rear cover

Peel back the trunk weatherstripping along the back of the trunk and the right side all the way up to the start of the roofline.

Gently pry the rear cover off as shown in the below picture red circle area.



### 2.3 Remove Bose Right Speaker if Equipped

If the car is equipped with Bose trunk speakers, remove two wingnuts and unsnap the Bose speaker joining metal clamp to remove the right Bose speaker.

### 2.4 Loosen the Bose Main Speaker with one Wing Nut

There is one wing nut holding the Bose Main speaker assembly that I removed to be able to push the speaker out of the way.

## 2.5 Remove this Nut that Held the Bose Speaker Retainer

Lift up the carpet and you will find a 10mm nut that holds the Bose Clamp and also secures the trunk right plastic trim panel cover in place. Remove this nut.



2.6 Remove Tool Cover and 2 Hidden Push Pins



## 2.7 Remove this 10mm nut too



## 2.8 Remove Cargo Cover

Remove the horizontal Cargo Cover (if equipped) that is held with two ropes that loop.

## 2.9 Remove Cargo / Passenger Compartment Separator

Remove the vertical passenger compartment separator which snaps into place

## 2.10 Remove two Push Pins that hold interior $\frac{1}{4}$ panel cover

With the vertical cargo separator removed, you can see two push pins (being in this being interior car).



**2.11 Snap Seat Belt Trim Cover out as shown above**

Snap the seat belt cover out as shown in below picture.



## 2.12 Behind Passenger Seat remove one Screw and one Push pin



Slide passenger seat forward and then remove one push pin and one Philips head screw.

## 2.13 Partially Remove $\frac{1}{4}$ Panel Cover

Peel the door Welt Seaming (weatherstripping) out of the way to uncover the gap between the car body and the  $\frac{1}{4}$  panel trim.

With the above fasteners removed, it's now possible to snap the  $\frac{1}{4}$  panel cover back. You don't need to fully remove it, just get it up out of the way where it covers the trunk interior black plastic.





## 2.14 Lift the Trunk Plastic out of the Way



Now that the  $\frac{1}{4}$  panel trim is removed, it's time to snap the trunk interior panel away so you can get your head to and see into where the antenna is.

### 2.15 Here's the 10mm Nut that Holds the Antenna in



Remove this nut and disconnect the antenna wire and the electrical connector.

With this nut and the antenna cap removed earlier, you can fish the antenna assembly out. There's not a lot of room to work with but you can maneuver it around into the cavity enough to just barely get the tip clear of the body and then remove it.

### 3 Disassemble the Antenna and Fish out the old Broken Mast



Remove 5 Philips head screws

Then remove the cover

### 3.1 Remove the inside Wheel and Fish out any Old Mast



Remove this outer wheel and then I used a small flat blade screwdriver to fish out the broken part.

### 3.2 Reinstall the Wheel and the 5 Screws

### 3.3 Replace the Antenna Assembly, Antenna Wire, Connector, and Nut.

Don't Tighten the 10mm nut all the way until you screw the top cover back in later. Otherwise you'll be fighting the nut as gravity wants the antenna assembly to hang down a bit until the nut pulls it up into position.

### 3.4 Reinstall the new Mast



Remove this master sheath from the antenna assembly, then insert the new mast up through the sheath first. Otherwise you won't be able to insert the new mast from the top as it can't go down through this sheath (it must go up through it).

### **3.5 Face the Teeth of the New Mast Beyond the Back of the Car**

The teeth of the new mast must be oriented to face back past the car (not facing forward).

Turn the radio on and make sure the antenna motor has stopped moving to try to push the antenna up.

Extend the antenna mast to full height so now you have made the plastic part as short as possible.

Position the plastic part down through the antenna hole until it just rests on the wheel that will grab it.

Have the helper turn the radio off and then immediately try to feed the mast down the hole. It should bite. If you're too slow and miss some of the time the motor is pulling it down, you'll find that the antenna might not go all the way down and you'll have to turn the radio back on to spit the antenna out and try again.





### **3.6 Reinstall Antenna Cap with Right Angle Needle Nose Pliers**

Once you've got the antenna sucked all the way in, you should replace the cap with the needle nose pliers (or circlip tool).

### **3.7 Tighten the 10mm Nut After Reinstalling the Cap**

With the Cap fully tightened, now you need to finish tightening that 10mm Antenna Assembly mounting nut.

### 3.8 Test the Antenna once or Twice

Turn the radio on and off and make sure it's going all the way up and all the way down.

## 4 Reassemble in the Reverse Order

1. Replace the trunk trim panel cover carefully paying attention to where it snapped in place.
2. Replace the Bose Joining Clamp and install the 10mm nut (or just the nut if no Bose system)
3. Replace the second 10mm nut that secures the front of the trunk trim panel cover.
4. Replace the Bose Right Speaker 3 wing nuts and Bose Speakers.
5. Replace the  $\frac{1}{4}$  panel cover by snapping it place.
6. Snap the seat belt cover back into place.
7. Replace the behind the seat Philips screw and push pin.
8. Replace the two push pins that were visible under the tool cover.
9. Replace the jack and any other tools that were removed.
10. Replace the Trunk Weatherstripping.
11. Replace the Door weatherstripping (Door welt seaming).

## 5 Enjoy your 90s Masterpiece