

HalfSpec Engineering S2000 Antenna kit Installation Tutorial

Revision 1

What you'll need:

- Medium to small phillips head screw driver
- Flat head or a slotted tool to remove the stock antenna cap/nut
- 10mm wrench

Installation

1. Starting from the outside, unscrew the captive hat/nut using a flathead or slotted tool if it's too tight to unscrew by hand.



***Note the picture above shows the antenna base outside of the car but at this point yours will still be installed.**

2. Also remove the grommet



* Note - Yours won't look exactly like mine because of course, mine already has the stock retracting antenna mast removed. Still the same step though.

3. When removing the captive nut the assembly will most likely come out looking like this:



***Note the picture above shows the antenna base outside of the car but at this point yours will still be installed.**

What you want to do is pull the two pieces apart so that the captive hat/nut is separated from the sleeve:



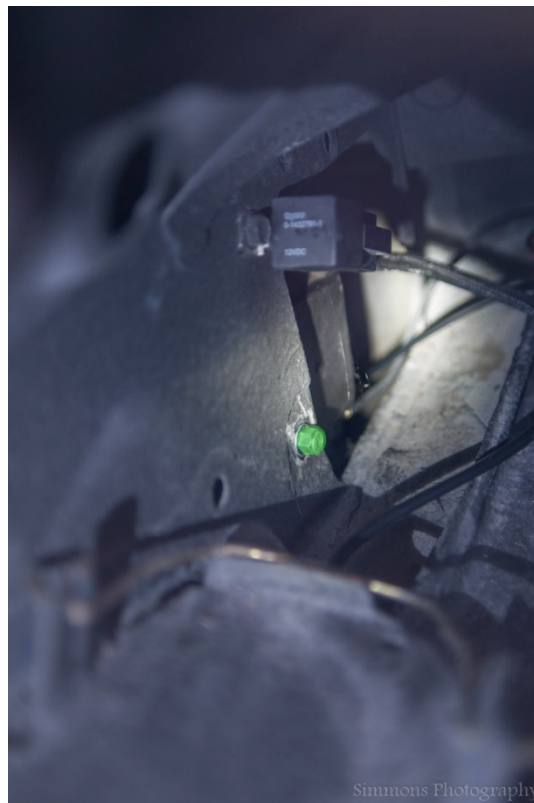
***Note the picture above shows the antenna base outside of the car but at this point yours will still be installed.**

You don't need the sleeve for the HalfSpec Engineering Antenna Adapter. Only the captive hat / nut and grommet.

4. Move to the inside and remove the passenger side hatch access panel and then remove all the tools (jack and anything else)



5. Look inside and spot the nut inside that bolts the antenna assembly to the body then work your arm and socket wrench inside to loosen and remove it. The antenna assembly has a stud that's pressed/welded to its frame, so it will just unscrew and it won't just fall out, but be careful that you don't accidentally push the antenna assembly too roughly because at this point with the captive hat and the nut removed, the assembly is loose and can potentially drop down in your rear quarter.



6. With the nut removed, you can reach in, grab the assembly, and gently push it back so that it retracts from the frame hole and the antenna mast surround drops out of the body hole. Maneuver the assembly and pull it out of the hatch access panel.



Note In the step above I had enough slack in my wiring to pull the assembly out before I unhooked the wiring, but all my wiring is aftermarket and I don't have the power wiring hooked up, so you 'may' have to do this while the antenna is still mounted before you can pull it out.

**Note #2 (Provided by Donthitme)* - Bryan let me know that unmolested antenna bases have an in-tact drain hose connected to the bottom of the unit via a barb. Bryan said he ended up taking off the rear hatch panel to remove it. I'm hoping most people won't have to go that far. As far as my kit goes, the adapter is solid, and uses a neoprene sealing washer to seal the very top of the unit. That along with the top captive nut/hat's o-ring and the grommet's seal 'should' provide a better-than-stock seal. I'm only mentioning this because it may make the drain obsolete and give you the option of snipping it vs taking the whole panel off (paaaaiiin)

Donthitme's pics of the drain tube:



7. Remove the antenna signal wire



8. Remove the wiring to control the retracting mast



Note The retracting mast wiring will not be reconnected because without the mast you don't need the base to do anything except conduct signal from the antenna and that's a completely passive operation.

9. Unscrew these 5 screws and remove the base cover



10. Remove the top cover and pull the antenna's gear cover off



*Note The flexible gearing for the antenna will coil / spill out. This is ok

11. Pull the retracting antenna completely out of the support mast. It will be a little noisy like a ratchet, but it's ok.



12. With the antenna removed, replace the gear cover





13. Now replace the lid to the antenna base unit and re-engage the 5 fastening screws



14. This is the goal. You want to get down to the point where the antenna outlet is stripped down where you can see the black plastic cup/liner inside the mast support



15. Showtime! Position the adapter to go in:



16. At this point you'll feel resistance when pushing the adapter in. This is where you encounter the press fit. It's a lite interference fit so you can press it in by hand but if its uncomfortable to press / tighter than expected you can use something like a block of wood to help spread the point of contact while pressing it in.



17. You want to get it down this far before you're done



18. You'll probably still have a little gap between the adapter, washer, and mast support. This is by design



19. Now it's time to re-install. Set your grommet and captive hat beside the antenna hole for quick access (you'll thank me later)



20. Move back into the hatch (I just sat my ass in the hatch and worked from the inside), then plug up your antenna signal wire ONLY



21. Maneuver the assembly into the access panel



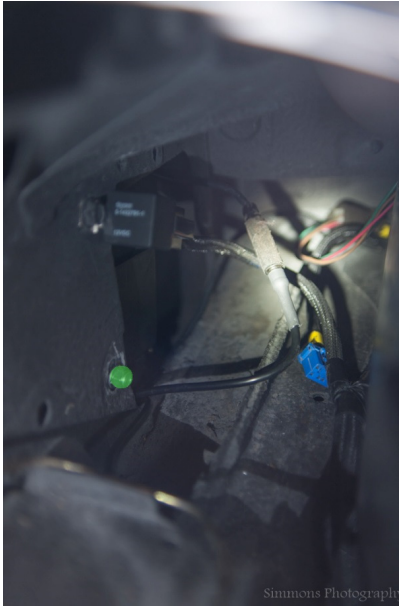
22. Start fiddling around until you can get the top of the assembly to poke through



23. Once you get the top to poke through, grab the grommit and captive hat and loosely screw them on to hold the assembly from the top



24. Push the assembly's stud through the mounting hole inside and loosely tighten up the inside nut. With everything loose but aligned, tighten the captive hat until it locks. Tighten the nut from the inside



25. From the topside screw in your antenna



26. Turn on the radio and go for a cruise cause you're done :)

Thank you for buying my kit. I hope you enjoy the function and look as much as I do.

- Lane