

## PWJDM Nissan GT-R Induction Snorkels

### Installation Guide

This install will take 2-3 hours depending on how familiar you are with your car and if you have a service lift. **This install has a very high risk of scratching your fenders so read it fully before you begin.** We highly recommend you have a professional shop install these, but if you're a highly competent bodywork guy, they you can handle this.

\*\*We recommend you use a medium strength threadlock like Permatex Blue on all the bolts in this installation. Otherwise they may work loose over time. **Never use red** threadlock or you'll never get the bolts off again.

\*\*We suggest you have a container handy to hold all the screws, bolts, and plastic fasteners

Before Installation, double check to make sure you have all these components.

ITEM#	QTY	COMPONENT DESCRIPTION
1	2	PWJDM dry carbon induction snorkels
2	4	PWJDM 90 degree brackets
3	4	M6 flange head bolts
4	1	Install manual

#### 1. Prepping your car

- You need to remove the front bumper which forces you to remove the front wheels and wheel well liners. Jack up the car and rest it safely on stands, (not just the jack).
- Remove the front wheels.
- Mask off the front of the fenders with thick masking tape. There are metal brackets attached to the top bumper corners that will likely scratch the fenders upon removal and installation.

#### 2. Remove the wheelwell liners

- These are held in by one Philips screw and a load of plastic fasteners. A flathead screwdriver will pop the plastic fasteners loose. Notice that the fasteners on the bottom of the car are marked yellow.

#### 3. Remove the front bumper. Two people would be best at accomplishing this task.

- You need to open the hood and remove the plastic cover at the front of the engine bay.
- Remove the side indicator lights from the bumper. There is a metal spring tab that needs to be pushed in to do this. Disconnect the light socket and remove them lights.
- Remove the two downward facing hex/Philips head screws from behind the indicator light bracket area on each side of the bumper. One screw is at the rear of the light area and the other is towards the front area. You might need a flashlight to see the forward screws.
- Look under the front of the bumper and remove the pair of ~1.5" diameter rubber covers a few inches behind the leading edge of the bumper. You'll see 2 bolts under these covers, remove them. You see they attach to the aluminum support brackets hidden behind the lower grill.
- While underneath the car, remove the other two bolts that are about 2 feet behind the leading edge of the bumper.
- Now its time to remove the bumper by pulling on the upper wheel well corners. You may see there's a white plastic retainer holding the bumper corner to the fender. It might be necessary to push the little white spring tabs down to allow the bumper to come loose, be careful to not scratch your car.

#### 4. Install the snorkels

- a. Remove the wimpy stock snorkels and the metal brackets inboard of them. The same plastic fasteners used to secure the stock snorkels will be used again so don't mix them with the other fasteners.
- b. Remove the two bolts hidden on the frame uprights. They might be hidden by the wiring loom clipped on the leading frame cross member.



- c. Prep the new snorkels by loosening the brackets; they may need adjusting when in the car.
- d. Insert the foamed ends of the snorkels into the intake holes. The foam on our snorkels allow an airtight fit but enough cushion to prevent cracking.
- e. Move the snorkel tips down so the bottom flange is in front of the car as pictured.



- f. Place the original plastic fasteners through the rear brackets to secure the rear of the snorkel.
- g. Bolt the inboard snorkel brackets to the vertical uprights where you removed bolts earlier.
- h. Tighten down the loose bolts on the snorkel and brackets.

## Tighten down brackets after adjusting



5. **Replace the bumper. Two people would be best at accomplishing this task.**
  - a. This is tricky because several elements need to be aligned properly.
  - b. Place the center top of the bumper on the car, but don't push the top corners in yet.
  - c. The bottom of the bumper has 3 large teeth that need to slide into the undertray. Once these teeth are somewhat in the undertray grooves, then you can go back up top and push all of the bumper in.
  - d. If the bottom doesn't want to push in, the hanging
6. **Replace the top engine bay cover.**
7. **Replace wheel well liners**
8. **Replace wheels, make sure you hand torque them to spec.**
9. **Enjoy your ram air!**