



Installation Guide

It's possible to fit the entire kit without lifting the vehicle up or using any tools in about 10-15 minutes. However, some tools and elevation of the rear of the vehicle may help smooth the process.

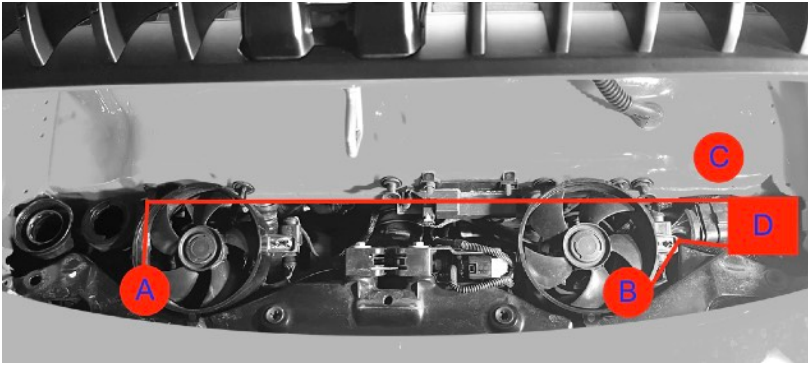
Useful Tools

- Wire cutters (for trimming wire ties)
- Light (for illuminating the darker areas of the engine bay)
- Soft cloths/towels (to protect the spoiler and bodywork from scratches)
- Vehicle ramps x2 (to raise the rear of the vehicle off the ground)
- Small tool to help push the grey tabs back on the connectors (e.g. small Allen/Hex key)

Installation Steps

1. Ensure that there are no outstanding technical issues or faults registered with the vehicle - it should be possible to turn on the ignition without any errors appearing on the dashboard.
2. If you are using ramps, reverse the vehicle onto 2 ramps at the rear.
3. Ensure the parking brake is applied and/or wheels are chocked appropriately.
4. Ensure that the vehicle is cool enough to work on. The exhaust area can be extremely hot, even after the engine has been switched off for some time - I recommend letting the vehicle cool for at least 30 minutes.
5. Open the rear engine cover/deck using the release button by the drivers side door sill.
6. If you have a protective cloth or towel, place this on the rear spoiler area to guard against scratches.
7. Remove both the oil filler cap and coolant filler cap.
8. Remove the cosmetic cover over the engine bay - this pops up with gentle force applied around the edge.
9. Re-attach the oil filler cap and coolant filler cap to ensure that no debris or dust accidentally falls into the reservoirs during fitment of the kit.
10. Move both electric fan units out of the way by gently popping up the rear attachment, followed by the two forward attachments - there is no need to disconnect the fans but they should be moved towards the centreline of the vehicle, out of the way.

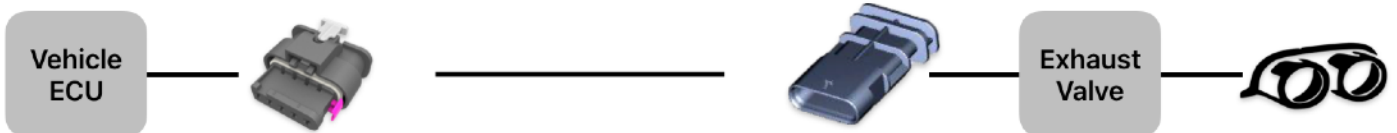
11. Ensure that, looking down on each side where the fans used to sit, you can see the ground - this is the path we want our wiring to take - one on each side. Use the following picture as a guide:



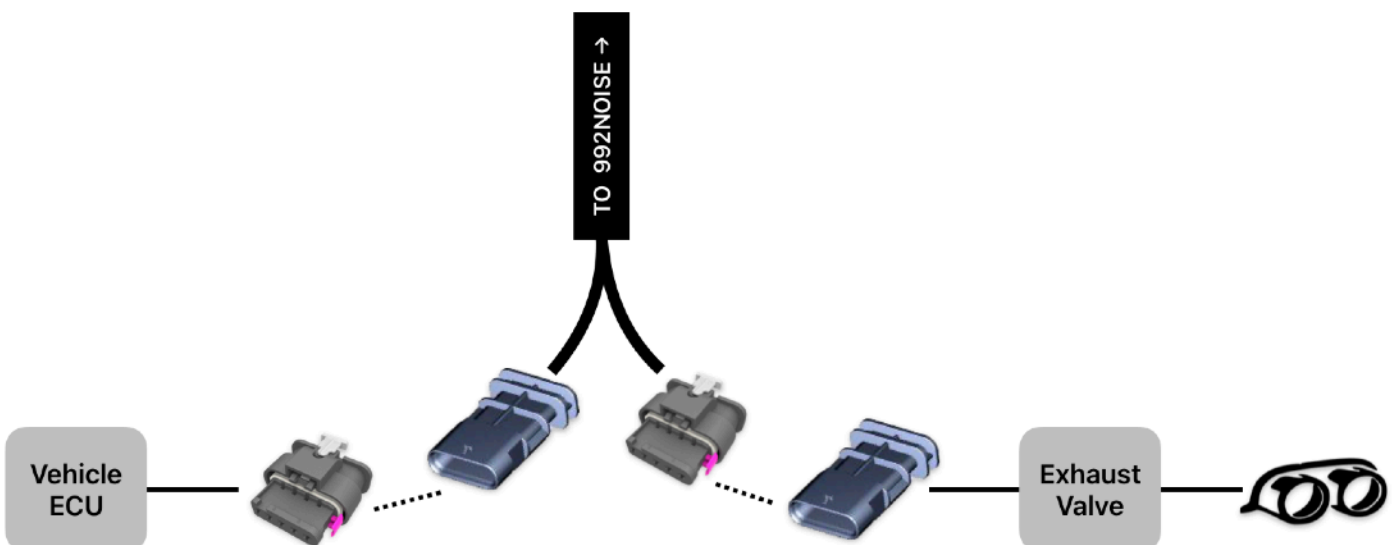
- A. Path down to left side exhaust valve.
- B. Path down to right side exhaust valve.
- C. Location above ECU where excess wire can be kept.
- D. Location of the 992noise kit enclosure/box.

12. Place the 992noise controller enclosure on the top of the engine bay, in the centre and 'drop' the wiring down each side of the vehicle, directly underneath where the fans normally sit until the connectors dangle underneath the car, or hit the ground.
13. Underneath the rear of the vehicle, locate each exhaust valve controller and remove their connectors. To remove the connector, slide the grey 'tab' out first - this unlocks the connector. Then, squeeze the same grey tab and pull the connector clear. This may require some practice - look at the connectors on the 992noise kit for inspiration!
14. Once the vehicle valve controllers are disconnected, plug the vehicle plug into one end of the 992noise wiring loom, and the other wiring loom plug into the vehicle valve controller. Do this on both sides.

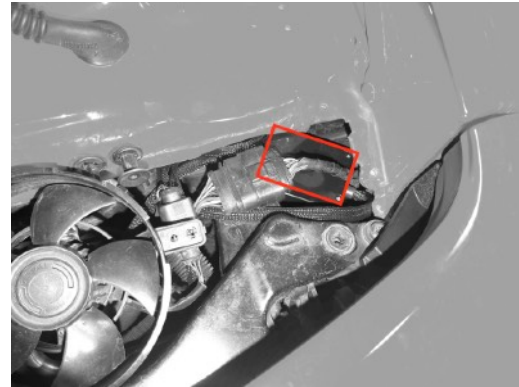
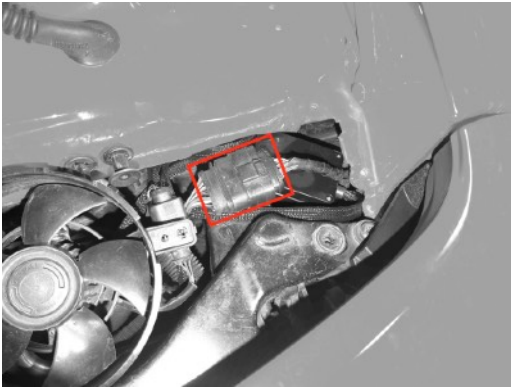
You are changing the wiring from:



To this, where the 992noise controller is connected in-between the vehicle ECU and the exhaust valve:



15. Gently pull on the wiring loom from the top of the engine bay, on each side so that there is no slack underneath the car and the routing of the wires simply goes 'straight up' to the top of the engine bay on both sides. Ensure that the wires are not resting on any hot surfaces.
16. Using the supplied wire ties, attach the top of each wiring loom to a suitable point in the engine bay - this should ensure that the loom stays relatively taught as it goes from exhaust flap motor to the top of the engine bay. Not too tight, but the wire should not be able to move around excessively.
17. At the top of the engine, move a connector out of the way on the right-hand side (left photo) by sliding towards the front of the car and then lifting up and back towards the rear. This will free up space on the far right-hand-side of the engine bay, near the vehicle ECU, for the 992noise controller enclosure/box to sit (right photo).



18. Once the controller has been placed in situ, reattach the right-hand side connector removed earlier and route the 992noise looms appropriately in the engine compartment.
19. Re-fit the fans.
20. Remove the oil and coolant filler caps and re-fit the cosmetic engine cover before re-fitting the oil and coolant filler caps again.
21. Close the engine deck lid.

Testing & Troubleshooting

The controller is powered when the vehicles electronic systems are powered - this is typically when the vehicle is unlocked or the ignition switched on. In both cases the power will be cut shortly after a period of time if doors aren't opened or the engine started.

1. Turn on the ignition and listen for any warnings. If there is a problem with power supply to the kit, or wiring, the vehicle will typically warn of a failure immediately. The failure message is likely to be a general failure message; there will be nothing specific about exhaust valves.
 1. If a failure message appears
 1. Note down the error message/s and go back to check connections at the rear of the vehicle.
 2. Ensure that all connectors are fully pushed home and the grey locking tab is engaged.
 3. Ensure that the looms aren't excessively twisted or bent at extreme angles.
 4. Ensure that where the wiring enters the 992noise kit enclosure, the wires are not under stress or have been pulled out.
 5. If these checks do not reveal an issue and the fault persists, try disconnecting one side of the vehicle and returning it to a direct connection - this may indicate which side is at fault.
 6. If single-side disconnection does not help, disconnect the kit entirely and verify that the vehicle returns to 'no faults'.
 2. Start the vehicle and ensure there are no warnings. The vehicle will start in default mode; the exhaust flaps will close but the cold start process is likely to begin - after a little while the waste gates will close, the noise will decrease and the idle speed will drop.

3. Apple iOS
 1. Use the 992noise app to check that a bluetooth connection can be established to the device and test out manually opening and closing the flaps.
4. Apple CarPlay
 1. Connect to CarPlay and verify that the control works as expected.
5. Android
 1. Visit <https://992noise.com/control> and add the page to your home screen.
 2. Using this page, verify that you are able to connect to the device and control the flap position.

Note

- Bluetooth range may be impacted by various factors - during normal operation, if connection is lost, the system will attempt to reconnect but it may be 'out of sync' with the device. This situation tends to resolve itself but future versions of the app will improve this.

Firmware Updates

The app checks regularly for firmware updates. If you forget to update the firmware, you may simply find that you need to run this process several times - the upgrades will be carried out in sequence if there are several updates available. Each update takes between 2-5 minutes to install depending on your internet connection speed and Bluetooth connection strength. To update:

1. Start the engine and ensure that the app makes a connection. Running the engine ensures that power will be constantly supplied to the device throughout the update.
2. Ensure that the app has a good WiFi or cellular signal and is indicating that a firmware update is available.
3. Click 'Update Firmware' and 'OK' on the confirmation box.
4. The firmware update process will begin and show a progress indicator.
5. At the end of the process, the device will reboot (this takes about 4 seconds) and the app should automatically reconnect and show the new firmware version.

Note

- The update process is relatively safe - if the engine is turned off, the power turned off or signal lost, the device will not be 'bricked'.
- To restart and try again, turn off the engine, lock the vehicle and wait a few minutes. This will disconnect power from the controller and reset the status. Restart the engine and start again.
- If the progress bar seems to stop, restart and try again. It should not take any longer than 5 minutes.