



5-0 IGNITE SR20DET R35 COIL KIT INSTALLATION GUIDE

This installation guide is applicable to the following vehicle make and models;

- Nissan Silvia/180sx S13 and S14 – SKU# 50IGNSR20DETR35_1
Engine: SR20DET (with igniter, big spark plug tube hole)
- Nissan Silvia S15 – SKU# 50IGNSR20DETR35_2
Engine: SR20DET (without igniter, small spark plug tube hole)

Please read this installation guide carefully prior to installing the product.



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If in doubt, seek professional help.

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INTRODUCTION

Thank you for purchasing 5-0 Ignite SR20DET R35 ignition coil conversion kit. We have done all the hard work to ensure that your installation is a breeze and clean. Your kit should include the following items;

- 1x Pre-made plug and play ignition coil harness
- 1x Igniter delete patch harness (applicable for S13 and S14 kit only)
- 1x Mounting system (includes a mounting bracket and 4 sealing boss)
- 1x Cylinder 1 coil bolt down sleeve
- 4x Hitachi R35 ignition coils
- Assorted fasteners

Installation time is typically 15 mins, depending on your engine setup, requiring basic set of mechanical skills and hand tools.



INFORMATION AND LIMITATIONS

- S13/S14 SR20DET must use ISO length spark plugs (i.e. NGK BKR series) for the correct stalk engagement.
- S15 SR20DET must use JIS length spark plugs (i.e. NGK BCPR series) for the correct stalk engagement.
- You need an aftermarket ECU and adjust the dwell time to the dwell table provided on the installation guide to run the R35 coils.
- Any part of the ignition loom must be sufficiently protected or moved away from close proximity of any exhaust components.
- You must remove the OEM igniter on S13 and S14 vehicles and install the supplied igniter bypass patch harness.

PROCEDURE

1. Disconnect/remove existing;
 - a. Coil valley cover
 - b. Ignition sub-harness
 - c. Amplifier module 'igniter' (**S13 and S14 only**, typically located on the exhaust side strut tower)
 - d. Existing ignition coils
2. Apply small amount of grease to the O-rings and install the sealing bosses onto the mounting bracket.



Shortside towards the bracket on S13/14 kit.

Figure 1 – Install the sealing boss onto the mounting bracket

3. Install the pre-assembled mounting bracket onto the valve cover. With the provided short bolts and washers, tighten down the bracket on cylinder 2 to 4 locations.



Figure 2 - Install the bracket onto the valve cover

4. On one of the R35 coil, carefully cut the mounting tab off using a hand saw. This coil will be for cylinder 1.



Figure 3 - Cut mounting tab off on one coil for cylinder 1

5. Fit all four coils and the provided harness onto the cylinder head loosely. Tuck the harness so that it fits under the coil.



Figure 4 - Fit the coils onto the engine

6. Connect the 6-pin connector on the ignition sub-harness to your engine loom. Bolt down the grounding ring onto an available spot on the cylinder head/intake manifold.



Figure 5 - Connect the ignition sub-harness

7. Bolt down cylinder 2 to 4 coils using the provided bolts and the dress up washer. Bolt down cylinder 1 coil using the provided bolt down sleeve.



5-0 IGNITE *Figure 6 - S13/14 SR20DET Installation*



Figure 7 - S15 SR20DET Installation

8. S13 and S14 only - connect the supplied igniter bypass patch harness to where stock igniter used to be. Zip tie them securely to prevent abrasion.



Figure 8 - Connect igniter patch harness

9. Check for any part of the harness whether they are susceptible to contact abrasion from any other parts in the engine bay. If required, these areas need to be protected or tied away from making contact.
10. Installation is now complete. Adjust the ignition dwell time on your ECU. Ensure that the spark/ignition edge is set to falling (same to OEM coils). You may install the spark plug valley cover back on.

CONCLUSION

Installation is now complete. Re-check all steps in the procedure, if all is good, you may start the engine. We recommend to remove the spark plug valley cover during motorsport or spirited drive to aid heat dissipation on the coils. The mounting bracket does not require to be removed to access the spark plugs. It is also recommended to check or replace your spark plugs during the installation.