



5-0 IGNITE IGNITION COIL KIT INSTALLATION MANUAL

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

- Nissan 180SX – SKU# 50IGN180SXSCA18DET Revision 0 Mounting System

Engine: CA18DET

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



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If in doubt, seek professional help.

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PREFACE

Thank you for purchasing 5-0 ignite ignition coil 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
- 1x Mounting system
- 1x M8x1.25 hex head bolt and spring washer for the harness ground ring
- 8x M6x1 – 20mm long socket head cap bolt for the mounting system
- 4x Denso Audi R8 ignition coils (if so, purchased as selectable option)

Installation time is typically 10 mins, depending on your engine setup, requiring basic set of mechanical skills and hand tools;

- Basic hand tools (ratchet, extension, sockets, spanner)
- Allen key set



INFORMATION AND LIMITATIONS

- **Ideal spark plugs to use are NGK BCPR series (5/8" hex size) when using Audi R8 ignition coils and our kit (these also have the required longer reach than NGK BKR series) though the BKR series is still acceptable.**
- Although the kit can be run with OEM ECU, aftermarket ECU is highly desirable which allows you to set ignition dwell time table to maximise the coil's performance.
- Typical ignition dwell time setting is 2.8ms @ 14V. Your tuner will determine the appropriate dwell times across the remaining voltage and RPM axis range.
- 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 ignition igniter from the vehicle and install the supplied patch harness.**

PROCEDURE

1. Disconnect/remove existing;
 - a. Battery
 - b. Coil valley cover
 - c. Ignition harness
 - d. Amplifier module '*igniter*' (typically located on the exhaust side strut tower)
 - e. Ignition coils '*coil packs*'
2. Latch the harness through the mounting system slots as shown for cylinder 1, 2 and 3.

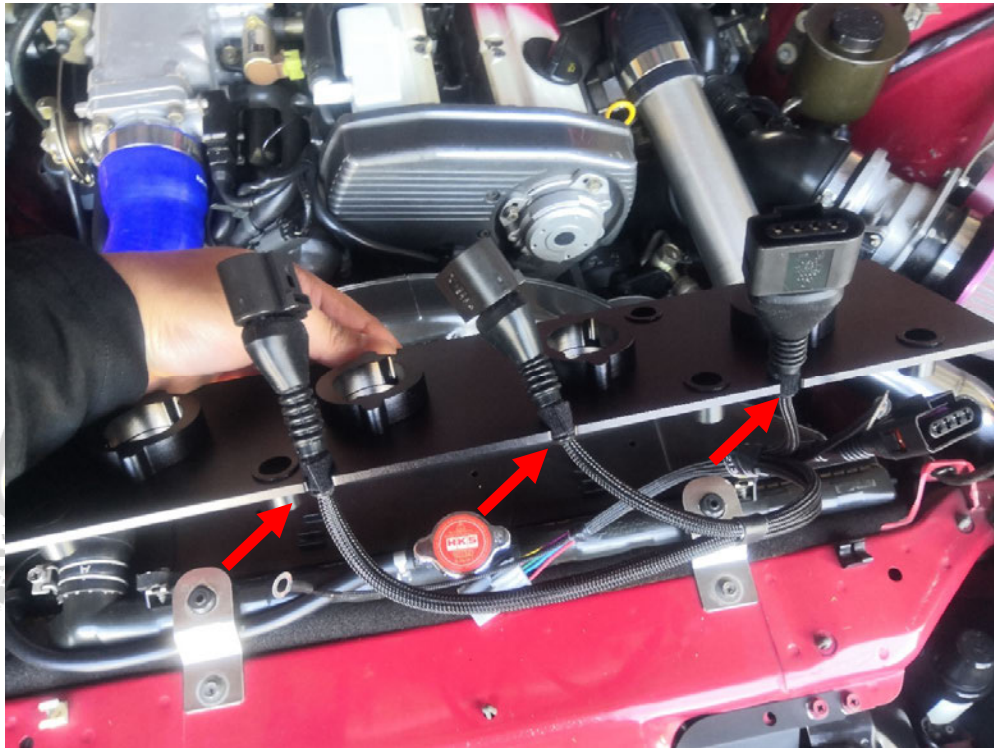


Figure 1 – Latch the harness to the mounting system

3. Install the mounting plate, tuck the harness underneath.



Figure 2- Install the Mounting System and Harness

4. Using the 8x socket head cap screws, fasten the mounting system to the valve cover.

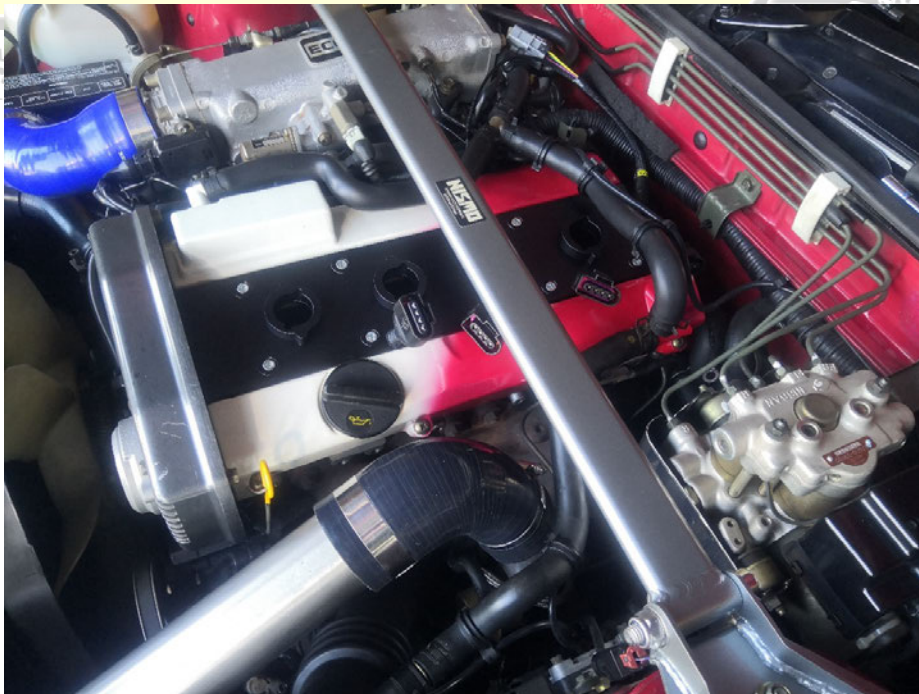


Figure 3- Fasten the Bolts

5. Plug in the grey 6-pin connector.



Figure 4 – Connect the Main Connector

6. Secure down each ground ring, ensure surfaces are clean;
- X To reduce ground loop, **do not** secure both ground ring terminals at the same bolt down point.
 - O Utilise the stock grounding point at the intake manifold for one for the ground ring.
 - O Utilise the engine lifting point bolt hole for the other ground ring.

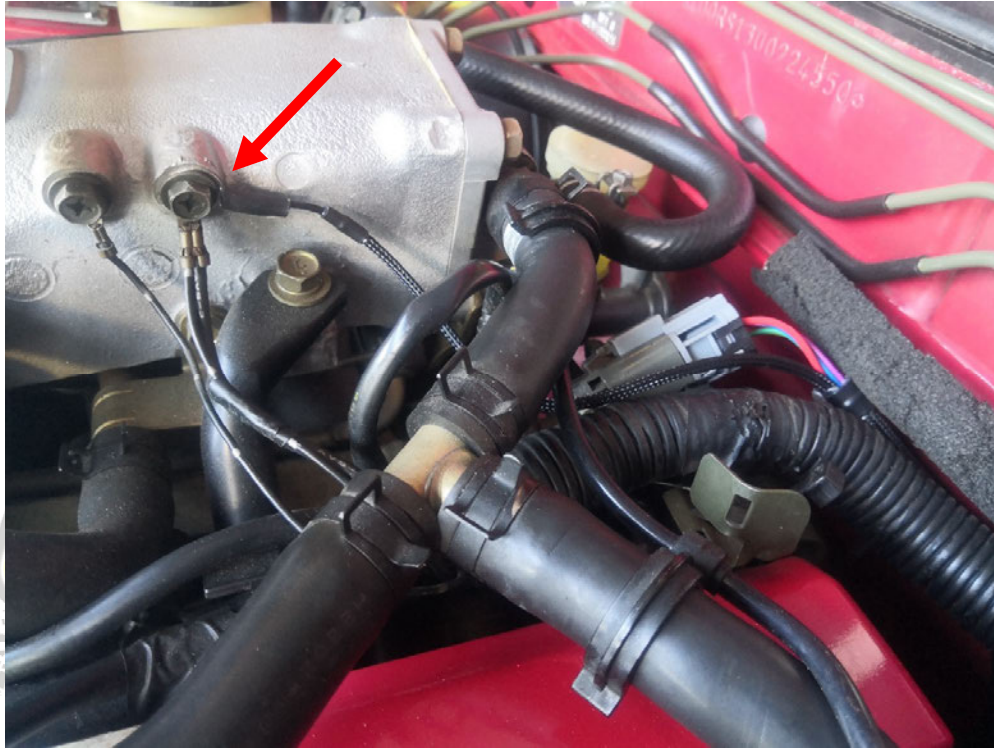


Figure 5 – Ground Wire Bolting on Intake Manifold



Figure 6 – Bolt Down the Other Ground Wire Ring on the Engine Lift Point (Exhaust Side) Using the Supplied Bolt

7. Connect the supplied igniter bypass patch harness to where stock igniter used to be. Zip tie them securely to prevent abrasion.



Figure 7 - Connect Igniter Patch Harness (Exhaust Side Strut Tower). Remove the Old Igniter If Necessary

8. Install the coils. Align with the spark plugs and mounting plate and push the top of the coil down firmly. Connect the connector to the coil.



Figure 8 - Install the Coils

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.

CONCLUSION

Installation is now complete. Re-check all steps in the procedure, if all good, re-connect battery and start the engine. Mounting system is not require to be removed to access the spark plugs in future, simply disconnect the coil connectors and gently pull up the coils to remove individually. It is also recommended to check or replace your spark plugs on this installation.

