



5-0 IGNITE RB – QUEST 125A ALTERNATOR INSTALLATION MANUAL

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

- Nissan Skyline (ALL MODELS) – SKU# 50IGNRBQUEST125A

Engine: RB20DET / RB25DET / RB26DETT / RB30 DOHC VARIANTS

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



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PREFACE

Thank you for purchasing 5-0 Ignite RB to Nissan Quest 125A Alternator Mounting 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 CNC Aluminium Mounting Adapter
- 1x M10x1.25 Class 8.8 bolt (replacement alternator long main bolt)
- 1x M8x1.25 Class 8.8 socket head cap bolt
- 1x M10 washer (spare washer for the main bolt, may not be required)
- 1x M8 washer
- 1x Spacer Shim Ring (**For R32 GTR and R32 GTST OEM Pulley, refer to figure 6**)

Installation time is typically 40 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

- This installation manual covers the aspects of adapting the Nissan Quest 125A alternator onto your RB engine utilising the 5-0 Ignite mounting kit only. **Refer to FSM on how to remove/replace your alternator or seek a qualified mechanic.**
- **Alternator is NOT supplied – Mounting Kit Only.** We use and recommend the following aftermarket Nissan Quest alternator to ensure correct fitment without further modifications and can be easily purchased online elsewhere at good price;

Brand: TYC

Part No.: 2-13821 (brand new aftermarket unit, not refurbished)

OEM Part No.: 231007B000R (1999-2002 Nissan Quest VG33E)

- **Components from OEM RB alternator that are required to be transferred** to the Nissan Quest alternator (refer to installation manual):
 - Split Pin (not applicable for R32)
 - Pulley
 - Main Bolt Retaining Nut and Washers
 - Main Bolt Spacer Round Bar
- Belt to use: 4PK880 Micro-V – **Belt length may require to be longer or shorter depending on what water pump and crank pulley you use!**

PROCEDURE

1. Disconnect/remove battery.
2. Disconnect wiring harness, remove belt and remove your existing alternator.
3. Transfer the pulley from your OEM RB alternator to the Nissan Quest unit (figure 1).
4. Knock out and transfer the split pin from your OEM RB alternator to the Nissan Quest unit (figure 2). Alternatively, you may drill the split pin that came with the Nissan Quest alternator to 10mm or slightly bigger.
5. Drill the Nissan Quest alternator mounting hole to 10mm diameter or slightly bigger (figure 2).
6. Mount the Nissan Quest alternator to your engine, re-use the components shown in figure 1.
7. Install the supplied adapter onto the Nissan Quest alternator. Loctite the bolt thread and torque to ~27Nm (figure 3). **Note: You may require to loosen the two bolts on the alternator mounting bracket to the water pump for alignment.**

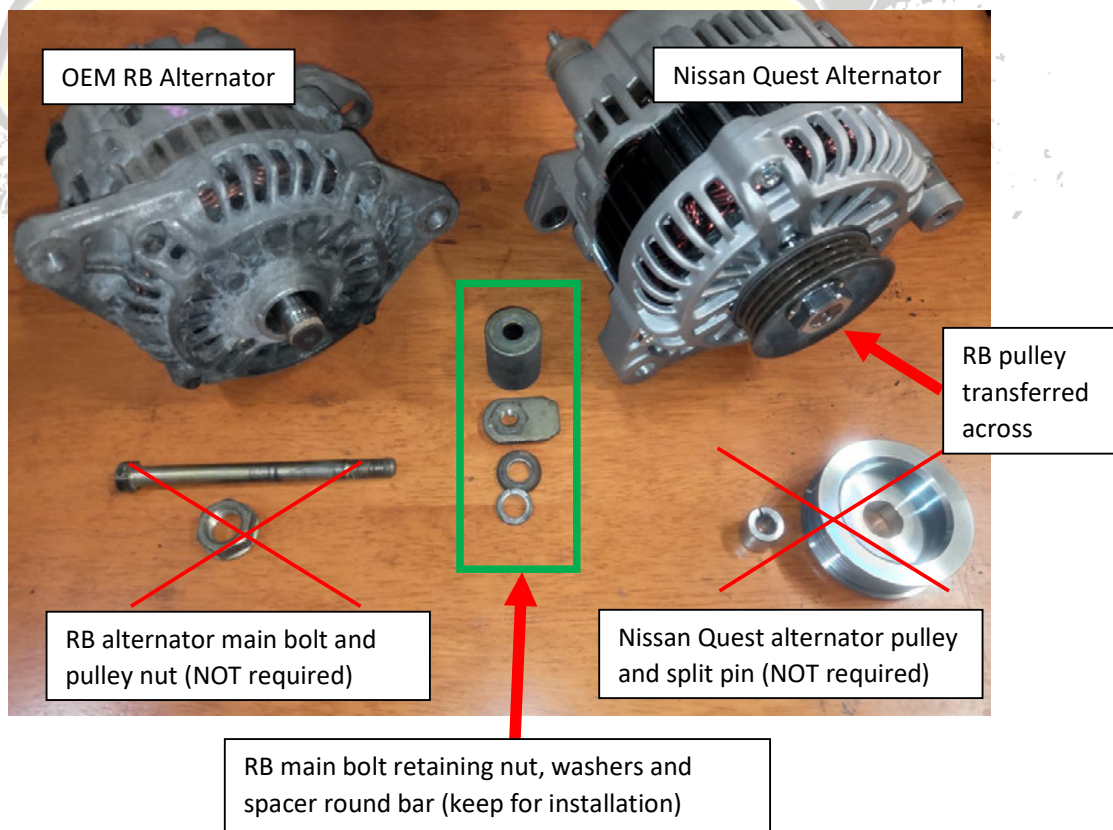


Figure 1 – Component Layout

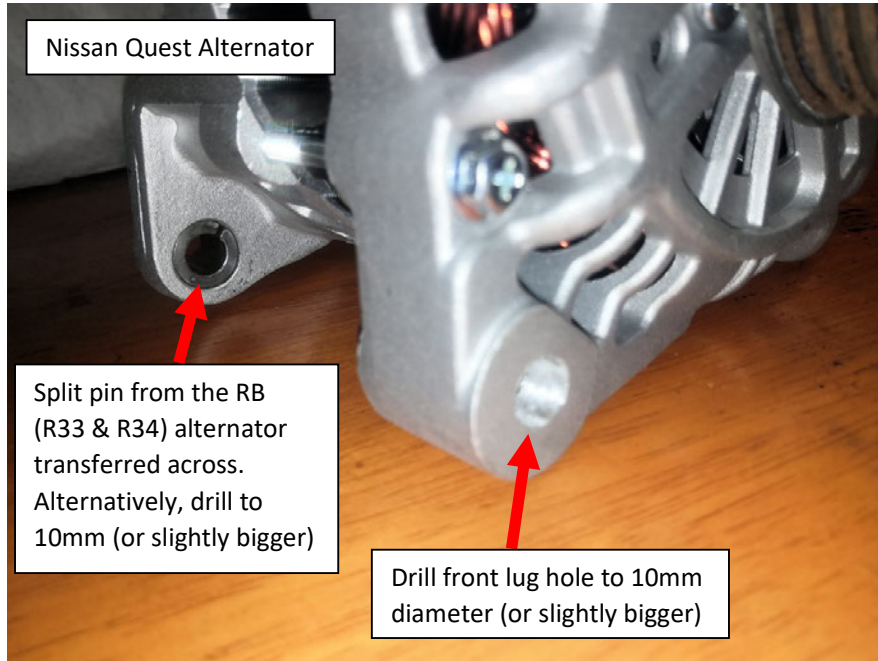


Figure 2 – Transfer OR Drill Split Pin and Drill Front Lug Hole

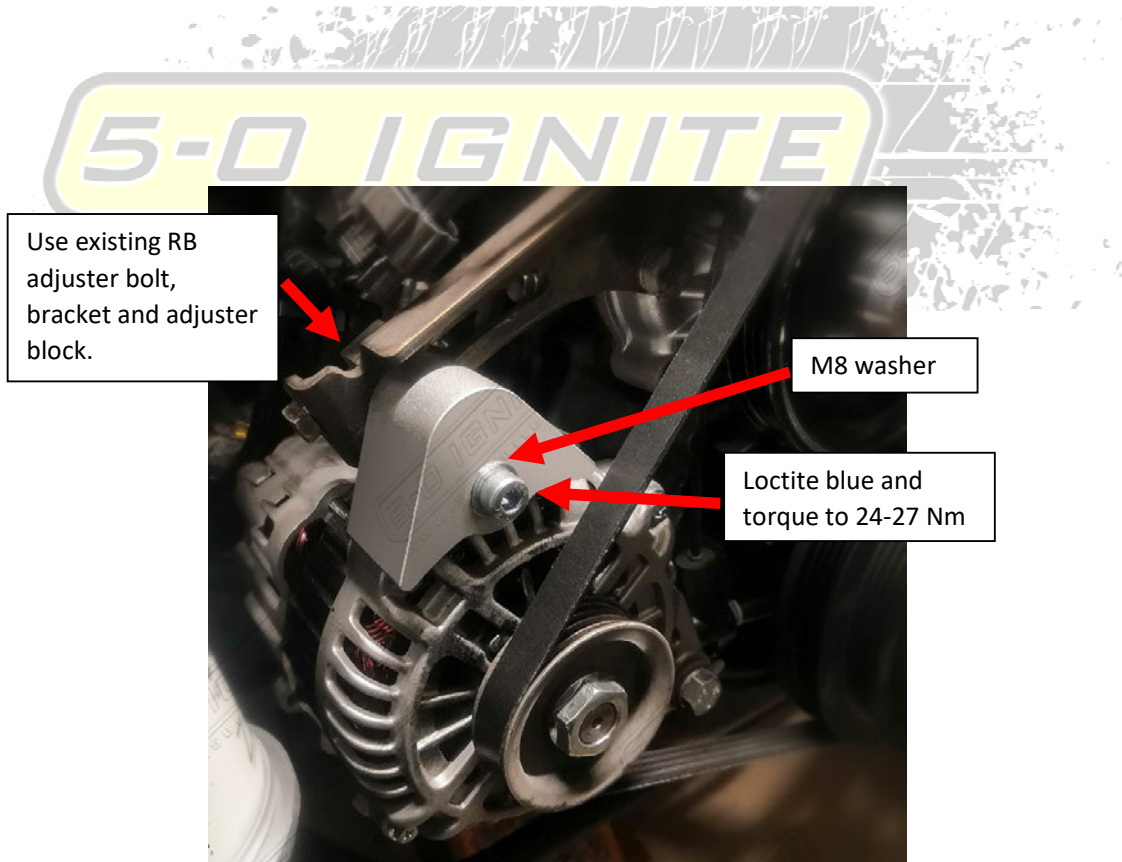


Figure 3 - Install the Alternator and the Mounting Adapter

R32 SKYLINE ONLY – SPECIAL INSTRUCTIONS

- **Split Pin**

The split pin outer diameter from the OEM R32 GTST and GTR alternator is incorrect to fit the Nissan Quest alternator. Such so, drill the split pin that came with the Nissan Quest alternator to 10 or 10.5mm.

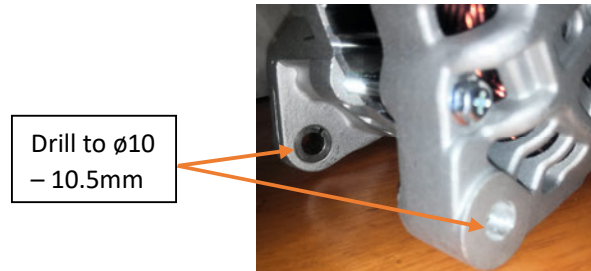


Figure 4 – Drilling the Mounting Lug and Split Pin

- **Using the Larger Diameter Pulley**

Provision is made to adapt the Nissan Quest alternator to the larger underdriven pulley, commonly found in the R32 skylines, using the spacer shim provided in the kit to space the pulley out to clear the alternator casting and to keep the pulley alignment correct.



Figure 5 - R33 & R34 Pulley (Left) & R32 Pulley (Right)

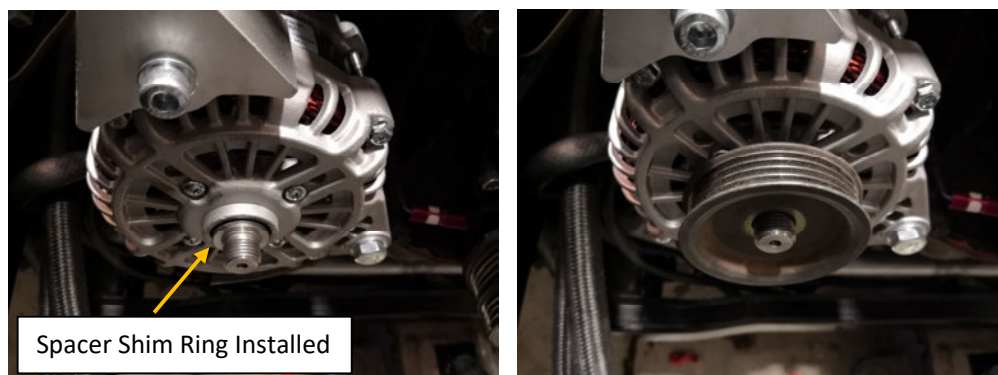


Figure 6 - Installing the Spacer Shim Ring and the Pulley

- **Alternator Power (+) Positive Cable Terminal**

OEM terminal/lug on the R32 is to suit M6 stud. This needs to be cut and re-crimped with a terminal/lug (commonly available from your local auto parts store) that suits 8mm stud.

8. Install and tension the drive belt. Tighten the alternator main mounting bolt and adjuster locking bolt.
9. Re-connect wiring harness (positive terminal, ground rings and the 2-pin connector).

CONCLUSION

Installation is now complete. Re-check all steps in the procedure, if all good, re-connect battery and start the engine. Ensure that voltage is above 13.7 V when the engine is running and the drive belt is sufficiently tensioned.

