



5-0 IGNITE RB – LS 140A ALTERNATOR INSTALLATION GUIDE

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

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

Engine: RB20DET / RB25DET / RB26DETT / RB30 DOHC VARIANTS

- RB30 SOHC REQUIRES DOHC CRANK PULLEY TO USE WITH MULTI RIBBED BELT



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

The logo is repeated in a larger, semi-transparent grey font in the background. A yellow rectangular highlight is placed over the "5-0 IGNITE" text in the foreground.

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If in doubt, seek professional help.

For further information, visit www.50ignite.com/terms-and-conditions/

INTRODUCTION

Thank you for purchasing 5-0 Ignite RB to LS 140A alternator 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 Billet aluminium upper mounting adapter
- 1x Billet aluminium rear mounting support bracket
- 1x Pulley
- 1x Adjuster block
- 1x Oval head adjuster bolt
- Assorted fasteners

Installation time is typically 40 mins, depending on your engine setup, requiring basic set of mechanical skills and hand tools.

INFORMATION AND LIMITATIONS

- This installation guide covers the aspects of adapting the early generation LS 140A alternator onto your RB engine utilising the 5-0 Ignite conversion kit. **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 genuine GM early generation LS alternator (part no. 92058857) or the following aftermarket alternator to ensure correct fitment without further modifications and can be easily purchased elsewhere at a better deal;

Brand: OEX

Part No.: MXA306 (brand new aftermarket unit, not refurbished)

OEM Part No.: 92058857 (Early generation LS alternator)

- Belt to use: 4PK925 Micro-V (RB26) or 4PK900 Micro-V (RB20/25) or 4PK915 Micro-V (RB25NEO) - may vary slightly if you're using aftermarket crank pulley and/or water pump pulley.

PROCEDURE

1. Disconnect/remove battery.
2. Disconnect wiring harness, remove belt and remove your existing alternator.
3. Remove the original LS alternator pulley and install the supplied pulley. Impact wrench allows the removal and tightening of the pulley nut easier.

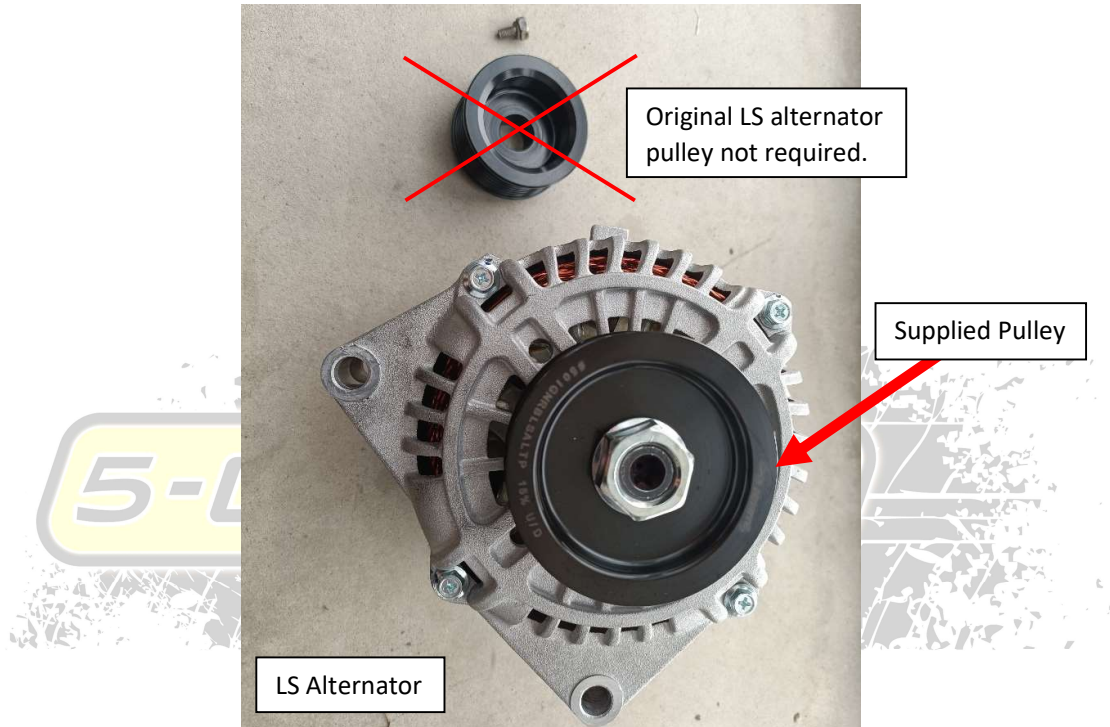


Figure 1 – Component layout

4. Remove the factory alternator bracket and replace the upper bolt immediately to reduce the chance of breaking the water pump liquid gasket seal. After tightening the upper bolt, remove the remaining lower bolt from the water pump.

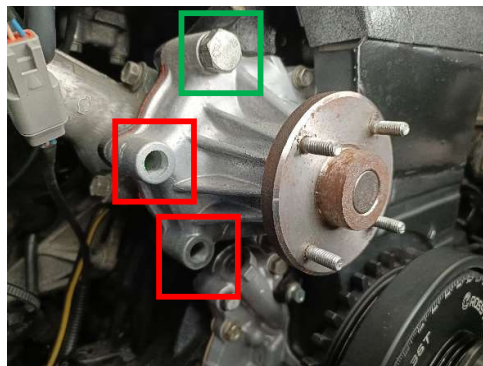


Figure 2 - Remove water pump bolts

5. Install the adjuster block and tensioning bolt onto the upper mount. Bolt on the mount to your water pump, do not snug the bolts down completely.



Figure 3 - Upper alternator mount

6. Install your alternator. The original round bar spacer from the stock alternator is not required. Top side of the oval head adjuster bolt is marked with a dot. Install the rear mounting support bracket.

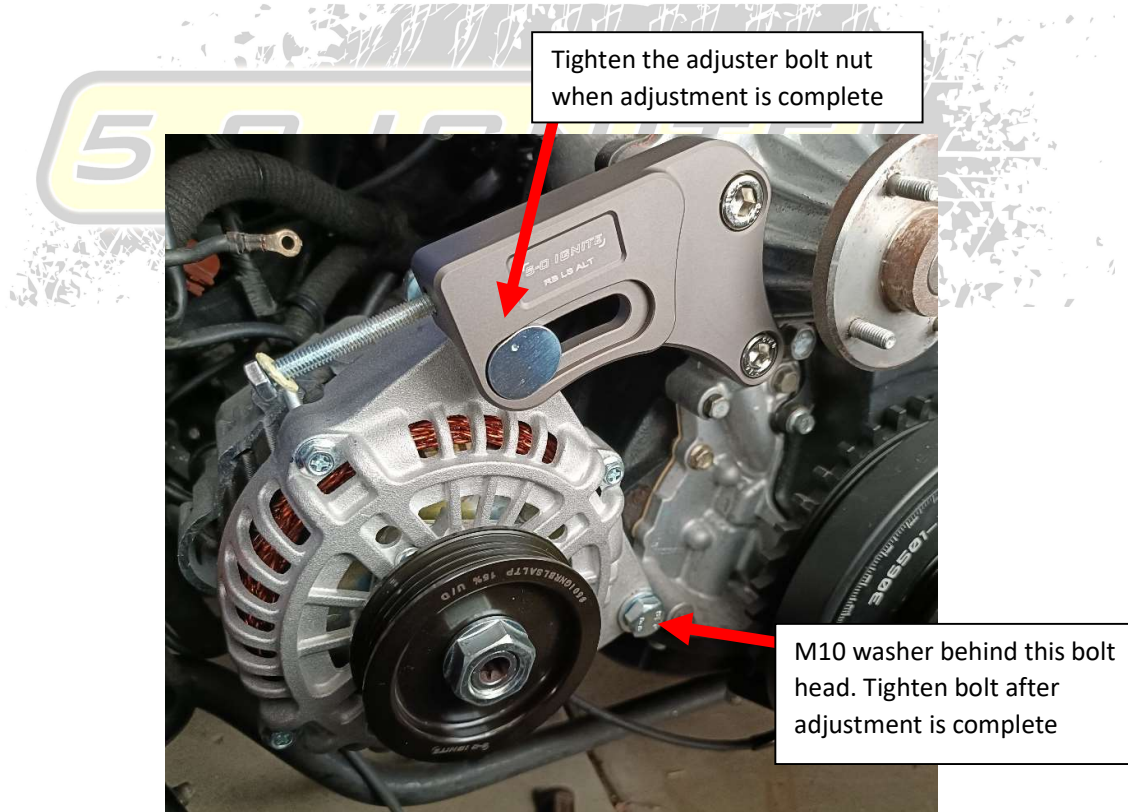


Figure 4 - Install the alternator

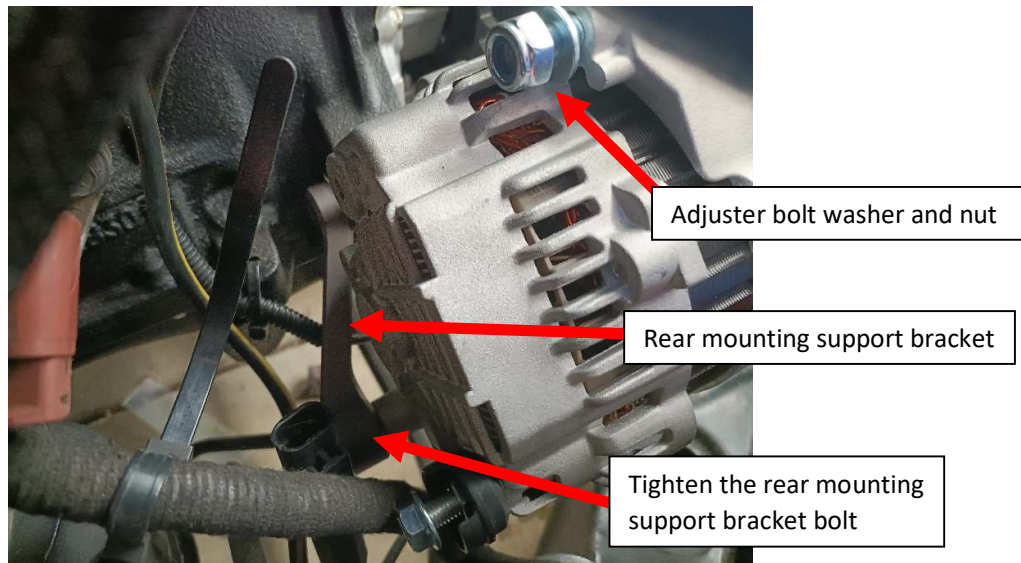


Figure 5 - Install the rear support bracket

7. If you do not wish to use the rear mounting support bracket, a nut is provided in the kit. Alternatively, use the OEM nut.
8. Swing the alternator to its full adjustment range back and forth to align the upper bracket then tighten the upper mounting bracket.
9. Install and tension the drive belt. Tighten the alternator lower main mounting bolt and adjuster locking nut.
10. Re-connect the wiring harness (positive terminal, ground rings and the 2-pin connector).

R32 SKYLINE / RB30 / S13 – SPECIAL INSTRUCTIONS

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

OEM terminal/lug on the R32/R31/VL Commodore/S13 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.

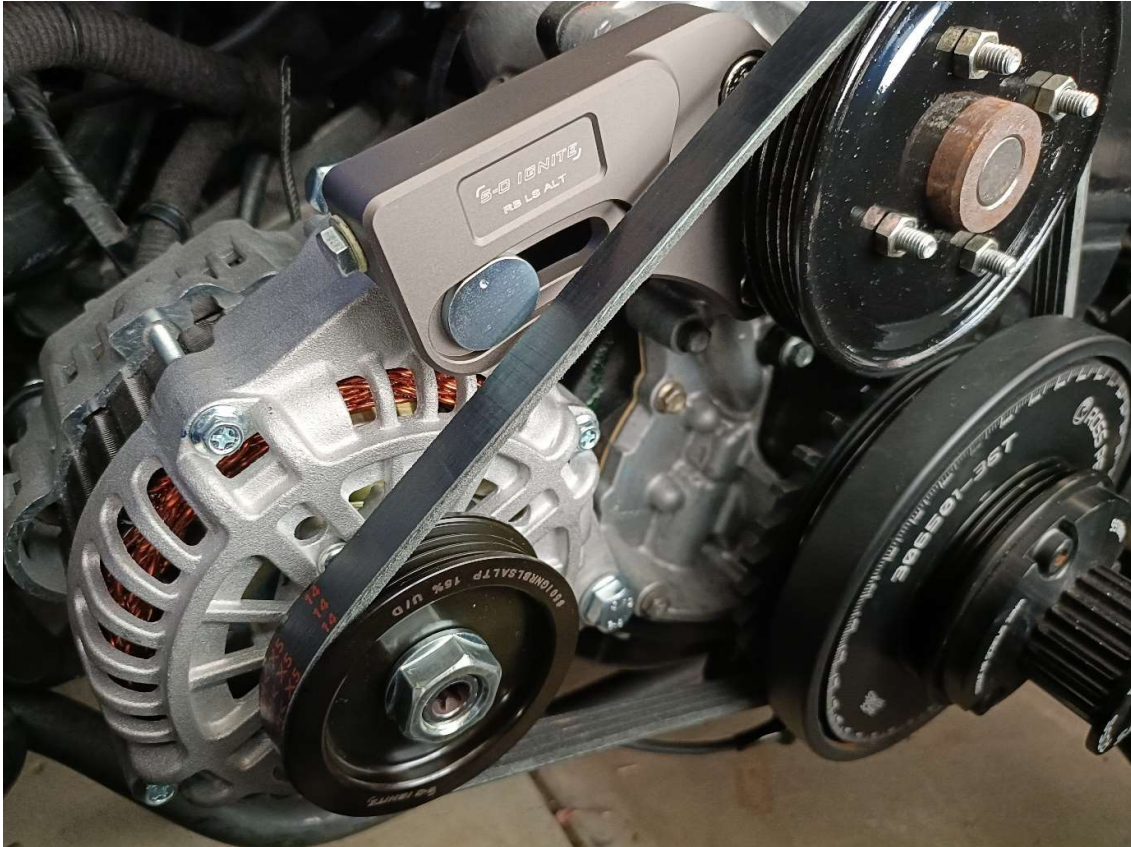


Figure 6 - Installation complete

CONCLUSION

Installation is now complete. Re-check all steps in the procedure, if all is 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.