

GEN III/IV CHEVROLET SMALL BLOCK TO NISSAN 240SX ENGINE SWAP KIT Z32 TRANSMISSION



INSTALLATION INSTRUCTIONS

Rev - May 2015

!!NOTICE!!

LOJ INNOVATIONS, LLC HAS PREPARED THESE INSTRUCTIONS TO MAKE YOUR PRODUCT INSTALLATION AS SIMPLE AND HASSLE-FREE AS POSSIBLE. INSTALLATION ISSUES EXPERIENCED AS A RESULT OF NOT FOLLOWING THESE INSTRUCTIONS ARE THE SOLE RESPONSIBILITY OF THE USER.

!!WARNING!!

THE USER OF THIS PRODUCT ASSUMES ALL LIABILITY FOR ANY DAMAGES TO PERSONAL OR PUBLIC PROPERTY RESULTING FROM THE USE OR MISUSE OF THIS PRODUCT. ANY INJURIES SUSTAINED BY THE USER AND/OR ANY OTHER INDIVIDUALS ARE ALSO THE SOLE RESPONSIBILITY OF THE USER. MOTORSPORTS ACTIVITIES ARE INHERENTLY DANGEROUS AND LOJ INNOVATIONS, LLC CAN NOT BE HELD RESPONSIBLE FOR ANY INCIDENTS RESULTING FROM THE USE OR MISUSE OF THIS PRODUCT.

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BEFORE YOU BEGIN:

Please ensure that all of the components required for your installation have been included in your package. This will include:

- One pair of motor mounts with Qty. 8 M10x1.5 25mm bolts for attaching the mounts to the block. **YOU WILL RE-USE YOUR ORIGINAL ENGINE MOUNT NUTS**
- One transmission mount with Qty. 4 M10x1.25 30mm bolts for attaching the mount to the car. **YOU WILL REUSE YOUR ORIGINAL TRANSMISSION MOUNT NUTS**
- One shifter relocation bracket with hardware.
- One LS to Z32 Transmission Adapter with Flywheel and hardware
- One LS to S-Chassis Oil Pan with hardware
- One LS Swap Heater Recirculation Block

INSTALLATION PROCEDURE:

- 1) After successfully removing your original engine and transmission, we recommend using this opportunity to give your engine bay a good cleaning. It is always more pleasant to work on a clean engine and vehicle.
- 2) Install your LOJ Innovations S-Chassis Oil Pan in accordance with the oil pan installation instructions.
- 3) Install your LOJ Innovations Z32 300ZX to LSx transmission adapter in accordance with the installation instructions. You will want the engine and transmission attached to one another prior to installation.
- 4) Install your LOJ Innovations Z32 Shifter Relocation Bracket in accordance with the installation instructions. **DO NOT INSTALL THE SHIFTER!**
- 5) Install your engine mounts to the engine block using the supplied hardware. The engine mounts are NOT SYMETRIC. There is a specific Left and Right engine mount. The differences in the mounts are subtle, and they are marked accordingly to prevent improper installation. If the mounts are installed on the wrong side, the engine will sit too low in the chassis and the oil pan will contact the steering rack. Damage to the oil pan resulting from improper mount installation will not be covered by LOJ Innovations.
- 6) Install the engine and transmission into the chassis as an assembly. This can be accomplished from the front of the vehicle from above with an engine hoist.
- 7) Once the engine is in position, support the transmission with a jack and align the engine mounts to the slots in the front crossmember. Lower the engine mount studs into the slots, and verify that the oil pan is level with the crossmember.
- 8) Install the transmission mount bracket and remove the jack from under the transmission.

- 9) Install your shifter into the relocation bracket. On some applications, due to differences in manufacturing tolerances between cars, a small modification to the shifter opening may be required to allow the shifter to reach 2nd, 4th, and Reverse gears.

IMPORTANT – The transmission may contact the transmission tunnel while you jack it into place. This is normal! The factory rubber mount compresses quite a bit once the weight of the transmission is placed on it.

Your installation is complete! Enjoy!