



Revised 02/2023

Installation Instructions

Front Sump LS Engine Swap Engine Oil Pan 364040

Thank you for your purchase! Follow these instructions for a hassle-free installation. If you are unsure about installing your new oil pan, please consult a qualified technician at your preferred repair shop. Please fully read and understand these instructions before proceeding to avoid damage to your engine, or personal injury. Failure to follow these instructions or misuse/incorrect application of the part will void any warranty offered. Stripped/damaged threads are not covered under warranty.

364040 - Up to 4.25" stroke. Designed for vehicles where a rear sump oil pan will not fit. Verify measurements before attempting installation. 6.2 quarts w/filter.

Notes:

- A special dipstick/tube will be required. (RPC #5114 or equivalent adjustable style) Dipstick housing collar will need to be cut and length adjusted as necessary. See pic below.
- Standard replacement LS oil filters can be used. (AC Delco PF48 or equivalent)

Pre-Installation Notes:

If you are installing this oil pan, we assume you are familiar with the standard procedures associated with removal and installation so we will not tell you how to do your job! Always take necessary safety precautions, jack stands, eye protection etc.

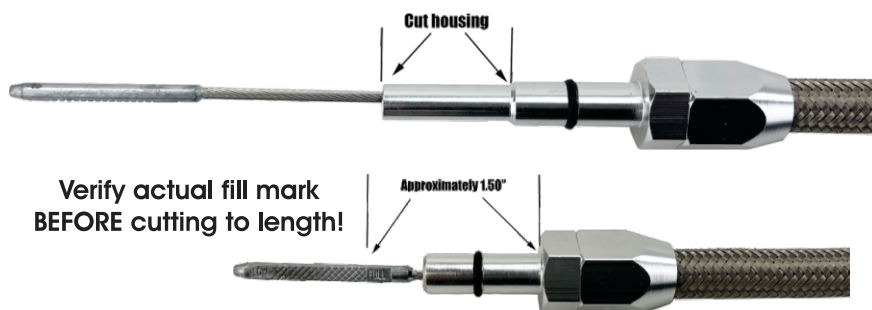
Remove the existing oil pan pick-up tube and screen and set aside. A new pick-up tube and screen is supplied with your new oil pan.

Check the dipstick hole below #6 cylinder. It needs to be plugged as the 364040 has a special dipstick that is installed in the side of the pan. A rubber plug is supplied. Clean the dipstick hole thoroughly and install the rubber plug using a small amount of RTV sealant or gasket compound.

Test fit the oil pan before installation. 1) To make sure your connecting rod/stroke combo clears the pan, tray, pick-up etc. and 2) To make sure it will work with your specific chassis combination.

Check the drain plug threads prior to installation. (Thread the plug in to ensure proper engagement)

Since the LS oil pan is a structural component of the LS engine, proper alignment is critical as it is the mounting point for the transmission bellhousing. The machined oil pan surface needs to be flush with the rear of the block. Use a straight edge or machined steel block to check.

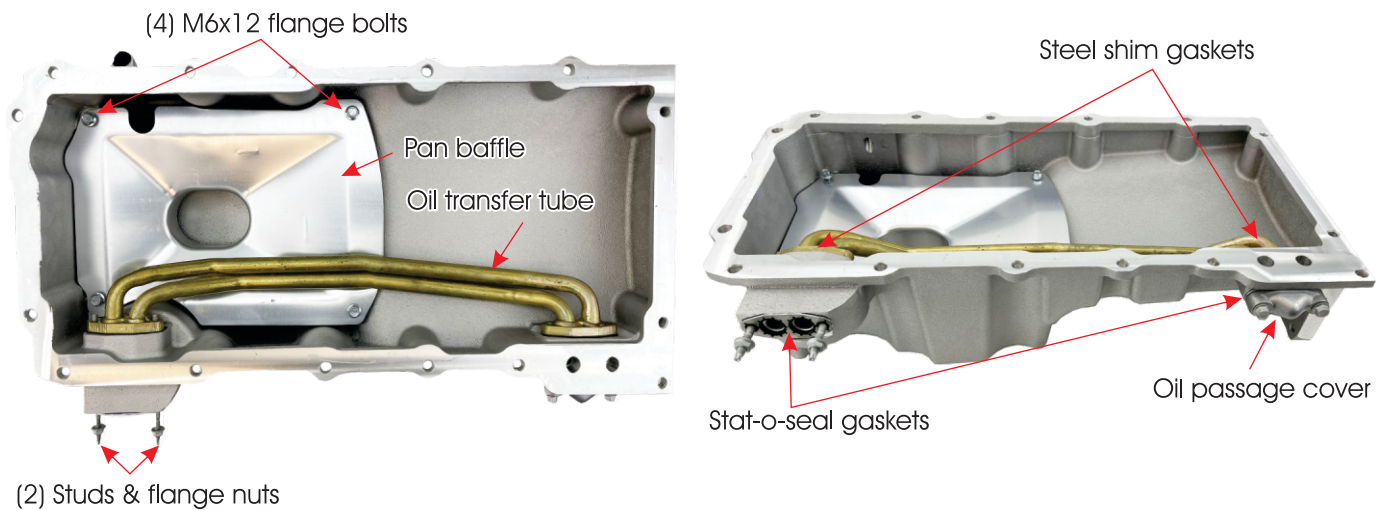


Installation Notes:

Lubricate the oil pick-up tube o-ring with engine oil and insert into the oil pump. Make sure it is fully inserted before tightening the (2) M6x16 cap screws. Check that the o-ring seated correctly. Torque the cap screws to 106 in/lbs. Torque the bracket nut to 18 ft/lbs.

Use blue threadlocker on the (4) M6x12 flange bolts and install the baffle into the oil pan and torque to 10 ft/lbs.

As shown in the photos below, install the oil transfer tube, oil passage cover, studs, gaskets & bolts and torque to 100 in/lbs. Note: If you are not installing an oil cooler, you will need an additional oil passage cover available at your GM dealer. Alternatively, if you need an oil feed, you can use our #84005 oil feed adapter (sold separately).



Install the oil pan gasket (not supplied) to the oil pan with a few bolts to hold in place. Apply a small bead of RTV sealant on the protruding front cover gasket (where the front cover meets the block). Do the same at the rear of the block (rear cover to block gasket).

Install the oil pan onto the block tightening all the bolts by hand.

Working from the center out, tighten all the M8 oil pan to block (and oil pan to front cover bolts) to 18 ft/lbs. Tighten the (2) long M6 oil pan to rear cover bolts to 100 in/lbs.

Attach your bellhousing to oil pan bolts (2) and torque to 37 ft/lbs.

Attach the LH and RH side transmission covers and torque to 100 in/lbs.

Tighten the oil pan drain plug to 18ft/lbs.

Attach the oil filter adapter (provided) and torque to 40 ft/lbs.

Install the oil filter and fill with your desired grade of oil taking care to not overfill.

Start engine and check for leaks. Recheck oil level and top up if required.