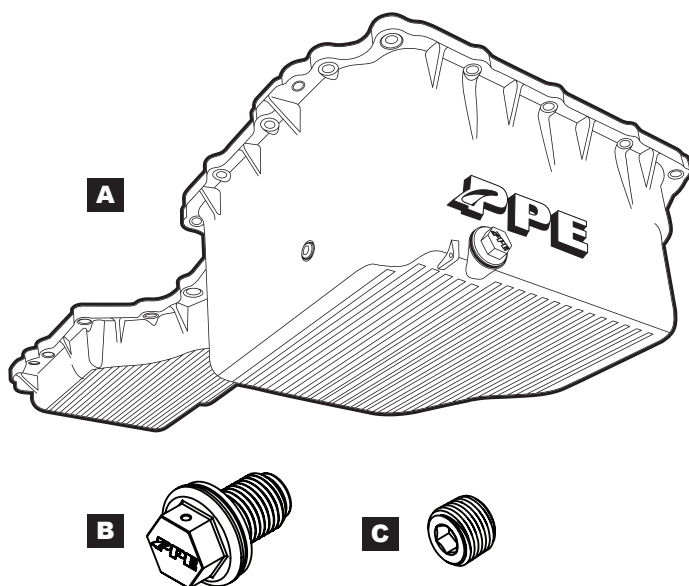


## **Heavy-Duty Cast Aluminum Engine Oil Pan**

*2017-2019 GM 6.6L Duramax (L5P)  
(114053000, 114053020)*

### ***Installation Guide***



## **CONTENTS:**

- A** (1) *Heavy-Duty Cast Aluminum Engine Oil Pan*
- B** (1) *M14 x 1.5 Neodymium-equipped Drain Plug (Installed)*
- C** (1) *1/8" NPT Plug (Installed)*



*Step 1. Vehicle off. Engine cool.  
Completely drain oil.  
Overnight, if possible.*

*Step 2. Remove skid plate and front  
crossmember.*

*Step 3. Remove the inner axel shaft  
housing to diff carrier nuts and  
diff carrier mounting bolts as  
shown in **Fig.1/2** Lower and  
secure front differential for  
easier stock pan removal and  
installation of larger PPE pan.*

*Step 4. Remove and retain factory oil  
pan bolts.*

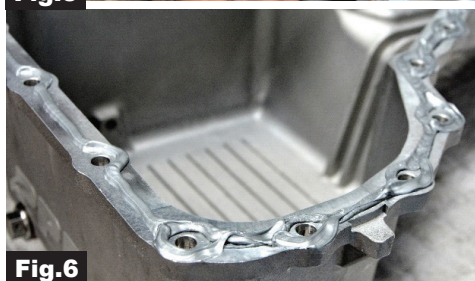
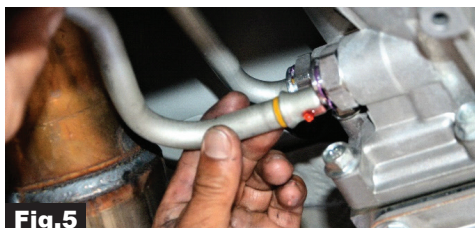
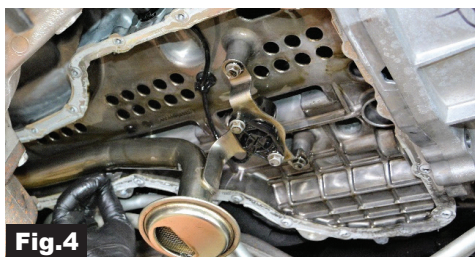
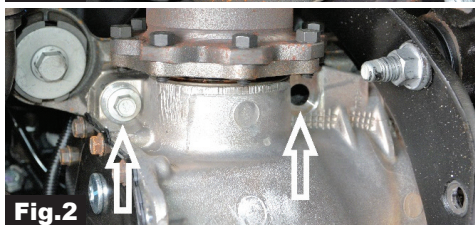
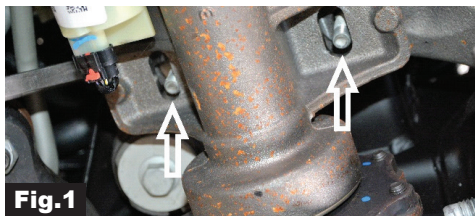
*Step 5. Locate the lower bolt on the  
passenger-side of the bell  
housing and remove it, making  
sure to save it. Note the bolt  
length will need to be trimmed  
in a later step to accommodate  
the larger pan. **Fig.3***

*Step 6. Carefully pry the stock pan  
away from the mating surface,  
being mindful of any remaining  
oil.*

*Step 7. Thoroughly clean mating  
surface of all old silicone  
gasket material. Wipe oil off oil  
pickup. **Fig. 4***

*Step 8. Disconnect the transmission  
coolant lines and securely  
position them out of the way  
to create enough clearance.  
Use a rag to tie off the lines to  
prevent leakage or damage.  
**Fig.5***

*Step 9. Apply silicone sealant to the  
mating surface of the pan and  
around the bolt holes.**Fig.6***



**Step 10.** To ensure a proper seal and prevent any leaks, it's crucial to avoid smearing the sealant during installation. It's highly recommended to have a helper to assist with locating the dowel pins, which will properly index the pan in place.

Start by positioning the new pan at an angle over the differential, beginning from the rear as shown **Fig.7**. Carefully tip the back of the pan to level it out, making sure to avoid contact with the sealant. With the help of a spotter, lift the pan into its indexed position, using the dowels as a reference. There is a dowel located at the front and rear of the mounting surface as shown. **Fig.8/9**

Once the pan is in the correct position, secure it in place by installing two of the factory bolts on each side at the middle. Finger-tighten the bolts to hold the pan in place.

**Step 11.** Install remaining bolts and torque to **8-10 lb-ft**, in pattern shown in (**Fig. 12**)

Take a moment to torque the drain drain plug to **25-30 lb-ft**, and ensure the NPT plug is securely tightened.

**NOTE:** Allow for RTV manufacturer's recommended time for silicone setup prior to adding oil.

**Step 12.** Check and mark bell housing bolt for trimming. Use a cut-off wheel to trim excess. Reinstall bolt and torque to **35 lb-ft**. **Fig.10/11**



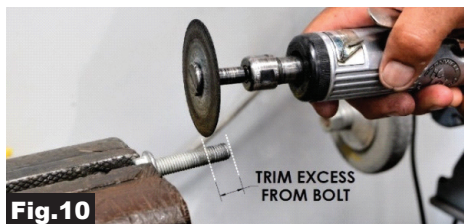
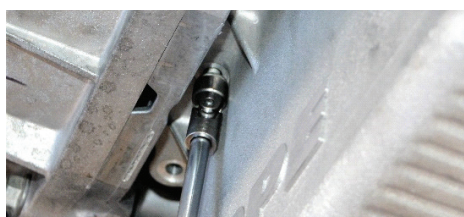
**Fig.7**



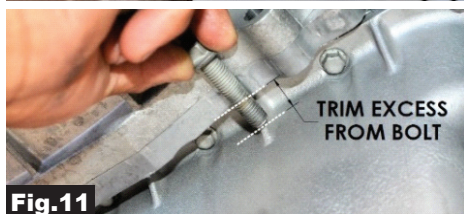
**Fig.8**



**Fig.9**



**Fig.10**



**Fig.11**

**Step 13. Reinstall the transmission coolant lines.**

*Next, reattach the front differential and tighten the inner axle shaft housing to diff carrier nuts and diff carrier mounting bolts to **75 lb-ft**. Reinstall the front cross member and torque to **52 lb-ft +110°**. Reinstall skid plate.*

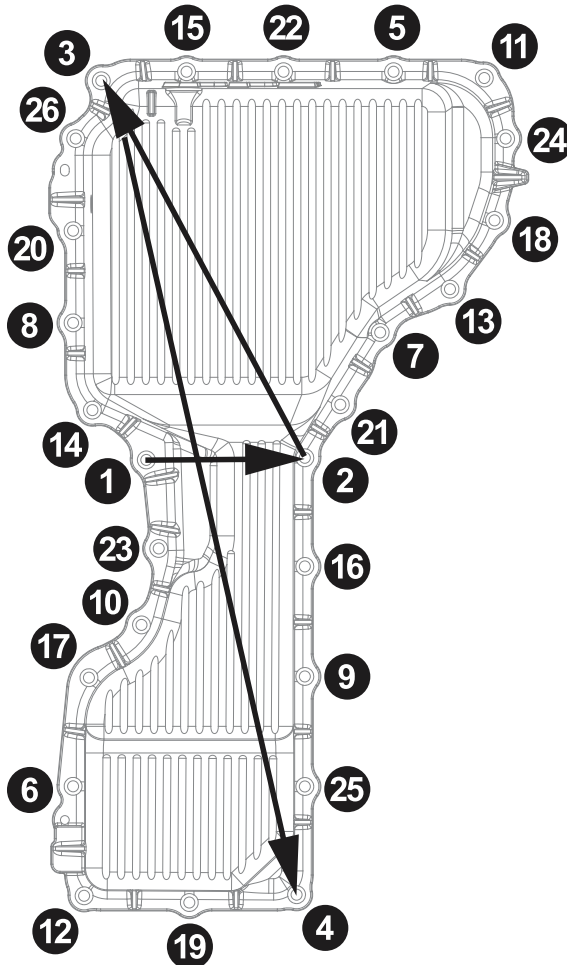
*Fill engine with recommended oil.*

*Check for leaks.*

*Top off transmission fluid if necessary.*

**Installation complete.**

**Fig.12**





## **DISCLAIMER OF LIABILITY**

Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure.

Note regarding emissions-related, non-E.O.-legal products: THESE PRODUCTS ARE LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR HIGHWAY OR OFF-ROAD USE.

This agreement sets forth the terms and conditions for the use of PPE products. The installation of this product indicates that the Buyer has read and understands this agreement and accepts the terms and conditions. PPE (Pacific Performance Engineering) Inc., its distributors, employees, and dealers (the "Seller") shall not be responsible for the product's proper use and service. The buyer hereby waives all liability claims. The Buyer hereby acknowledges no reliance on the Seller's skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof, and the Buyer hereby waives all remedies or liabilities expressed or implied, arising by law or otherwise (including without any obligation of the Seller with respect to fitness, merchantability and consequential damages), or whether or not occasioned by the Seller's negligence. The Seller disclaims any warranty and expressly disclaims any liability for personal injury or damages. The Buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the Buyer agrees to indemnify the Seller and to hold the Seller harmless from any claim related to the item of equipment purchased. Under no circumstances will the Seller be liable for any damages or expenses by reason of use or sale of any such equipment. The Seller assumes no liability regarding the improper installation or misapplication of its products. It is the installer's responsibility to check for proper installation and if in doubt, contact the manufacturer. The Buyer is solely responsible for all warranty issues from the manufacturer.

## **LIMITATION OF WARRANTY**

The Seller gives Limited Warranty as to description, quality, merchantability, and fitness for a particular purpose, productiveness, or any other matter of Seller's product sold herewith. The Seller shall not be responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except by a written instrument signed by Seller and Buyer. The Warranty on PPE Manifolds and Up-Pipes Kits, OEM-Length Up-Pipes is three (3) years, a limited lifetime warranty on PPE cast aluminum pans and covers, and a limited lifetime warranty on PPE Transmission Coolers and one (1) year limited warranty on all other PPE products from the date of sale to original buyer and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Seller. Under no circumstances will the Seller be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or re-installation - of this product or any other contingent expenses. Under no circumstances will the Seller be liable for any damage or expenses incurred by reason of the use or sale of any such equipment. In the event that the buyer does not agree with this agreement: the buyer may promptly return this product, in a new and unused condition in its original packaging, with a dated proof of purchase to the place of purchase within ten (10) days from date of purchase for a full refund. The installation of this product indicates that the buyer has read and understands this agreement and accepts its terms and conditions.

**⚠️ CA WARNING:** Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands. For more information see [www.P65Warnings.ca.gov/motor-vehicle-parts](http://www.P65Warnings.ca.gov/motor-vehicle-parts).

