

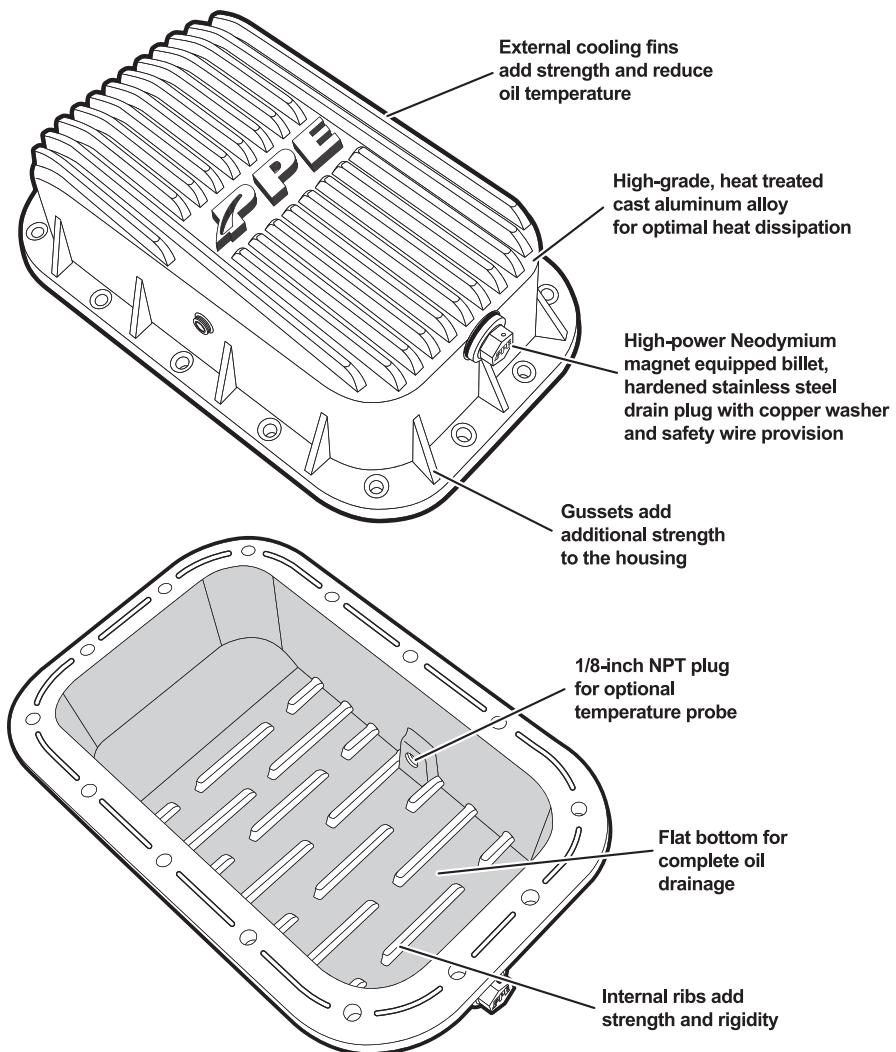
## **Heavy-Duty Cast Aluminum Engine Oil Pan**

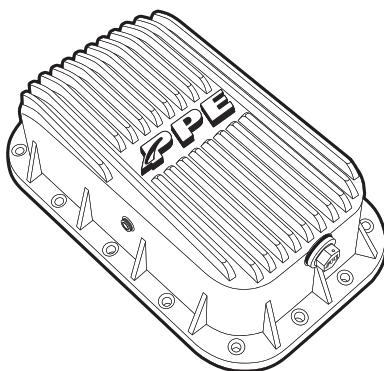
(214054000, 214054010, 214054020)

### ***Installation Guide***



## FEATURES:



**A****B****C****D****E****F**

## CONTENTS:

- A** (1) Engine Oil Pan
- B** (1) Neodymium magnet equipped drain plug with copper washer (installed)
- C** (14) M6 x 1.0 x 25mm socket head cap screws
- D** (14) M6 x 1.0 x 25mm zinc coated flat washers
- E** (1) 1/8-inch NPT plug (installed)
- F** (2) M6 x 1.0 x 25mm locating studs

## PREPARATION:

**Step 1** Vehicle off. Engine cool.

**Step 2** Remove stock drain plug and drain oil completely. Overnight if possible.

**Step 3** Replace stock drain plug. Pry away stock pan from housing. **(FIG 1)** Use caution when removing pan. There will be oil at the bottom of the pan.

**Step 4** Remove stock locating stud.

**Step 5** Thoroughly clean mating surface. Clean oil off the oil pickup and surrounding area. **(FIG 2)**

**Step 6** Install new oil filter if needed.

**FIG 1**



**FIG 2**



## INSTALLATION:

**Step 1** Install Locating Studs (F) in locations as shown. (FIG 3)

**Step 2** Apply a continuous bead of RTV silicone in the machined grooves and around screw holes. (FIG 4)

**Step 3** Pre-assemble screw and washer hardware (C, D) for easier installation.

**Step 4** Using the installed Locating Studs as guides, carefully install the Oil Pan until it contacts the housing surface. Use care not to smear the silicone. Install one set of assembled screw and washer assemblies (C, D) on either side of the Oil Pan to secure the Pan. Finger tight for now.

**Step 5** Install remaining screw and washer assemblies (C, D). Finger tight for now.

**Step 6** Tighten in a crossing pattern as shown (FIG 5).  
Torque to 8 ft. lbs./89 in. lbs.

**Step 7** Check NPT Plug and Drain Plug. Tighten if necessary.

**Step 8** Allow silicone to set up for 1 hour before filling with vehicle manufacturer's recommended engine oil.

**Step 9** Start engine. Check for leaks. Top off oil if necessary.

Installation complete.

### Engine oil service:

The flat bottom of your PPE Pan allows for complete drainage. At this time the Neodymium magnet should be checked for excessive metal particles. Some is normal. Excessive debris may indicate a problem. Wipe off Drain Plug to remove particles. Reinstall and tighten to 18 ft. lbs.

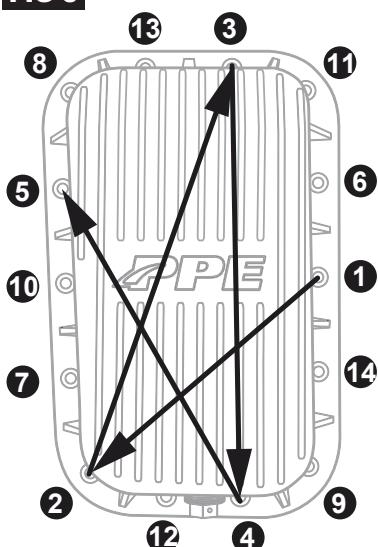
**FIG 3**



**FIG 4**



**FIG 5**



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