

10 STEPS FOR PROPER SPIN-ON OIL FILTER INSTALLATION



Step 1

Inspect the current spin-on oil filter for leaks, damage or problems before removing from the vehicle. Be sure to document any abnormalities, issues or concerns on all paperwork.



Step 2

Remove the current spin-on oil filter. Make sure the gasket from the filter you are removing is not stuck and still attached to the engine base plate. If so, remove.

ESM

Step 3

Verify correct application part number for the new spin-on oil filter using an ESM (Electronic Service Manual) or filter application guide



Step 4

Inspect the gasket of the new spin-on oil filter to be sure it is smooth on the surface and sidewall and is free of any dimples, bumps or defects, and is seated properly in the filter base plate before installation. Inspect filter housing for any dents, pinches, or other visual damage. **DO NOT** use or install a filter with any visual damage to the housing, gasket, or base plate.



Step 5

Lubricate the gasket of the filter by generously applying a layer of oil to the entire gasket with your finger leaving no dry spots. This also allows you to make sure the gasket is perfectly smooth, clean, and free of defects as well as properly lubricated and seated in the filter base plate.



Step 6

Using a clean rag, wipe down the entire engine base plate and make sure it is clean, smooth, and free of any bumps, defects or foreign materials. This is an important step as the engine base plate can be in a dark place and hard to see. Also make sure that the mounting post/stud is tight and free of defects or foreign materials. Checking and cleaning the engine base plate, as well as making sure the mounting post/stud is clean and tight are essential steps for proper installation.



Step 7

Install the new oil filter, making sure the gasket is completely inside the gasket channel of the base plate and the gasket has contacted and engaged the base plate. Turn the filter an additional $\frac{3}{4}$ of a turn to a full turn to properly install the filter. Note that some diesel truck applications require a 1 to $1\frac{1}{2}$ turn requirement.



Step 8

Be sure there are no threading problems or other issues with the mounting post or filter, and that there is no unusual resistance while threading the filter on. Contact your manager with any questions, issues, or concerns before proceeding and then document in writing any abnormalities, issues or concerns on all paperwork.



Step 9

Once the new proper amount of engine oil has been replaced, check for the oil level and inspect for leaks. Re-tighten spin-on filter if necessary.



Step 10

Start the engine and rev to 2,500 - 3,000 RPM for a minimum of 10 seconds then visually check for leaks. Continue to let the car run a minimum of 45 seconds and check again for leaks. If necessary, re-tighten the filter and repeat Step 10 ensuring no leaks are present before releasing vehicle.

