

MS-101-BK Cartridge to Spin-On Adapter

Installation instructions: For 2011-2013 3.2L & 3.6L Pentastar Engines

Important: Read instructions thoroughly prior to starting installation.

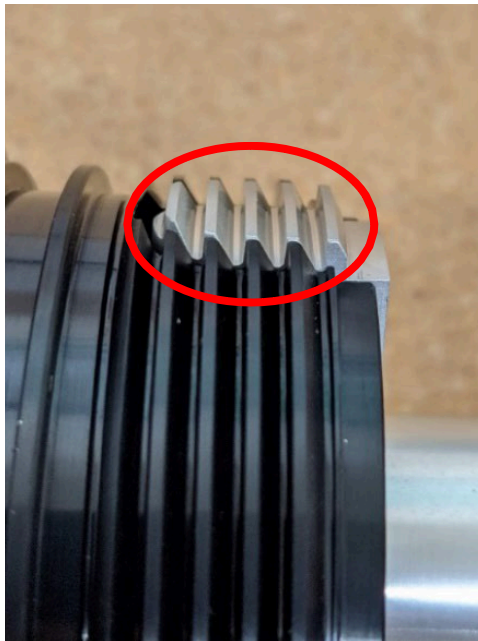
Step 1: Remove existing Cartridge filter cap and filter.



Following removal of filter and cap, if the center tower assembly is not present, STOP!!! The oil filter assembly has been upgraded to a 2014+ version and will require the MS-201-BK Cartridge to Spin-On Adapter



Step 2: Ensure that the threads on locking cleat are aligned with threads on adapter body prior to install. (as shown)



Step 3: Install the Adapter until it bottoms out, then back it out less than 180 degrees to expose an NPT port to be utilized for the Schrader valve. Note the orientation (the opposite one will be plugged with the included hex plug) and remove adapter.



Step 4: Lubricate the 1/8" hex plug and install in unused port and tighten.



Step 5: Using diagonal pliers, cut four supports below bypass valve spring base.



Sample oil filter/cooler used for clarity.

Step 7: Reinstall adapter using 1" deep socket, to the previously determined orientation.



Step 10: Install oil filter with 22 X 1.5 threads, WIX 57502, Purolator PSL22500 or MOBIL1 M1-212 or equivalent. Make certain to lubricate oil filter gasket prior to installation.



Note: Thread seal tape may be used on hex plug, 90-degree fitting and Schrader valve. Make certain tape is on treads only and not over end of fitting.

Supports following bypass removal shown.



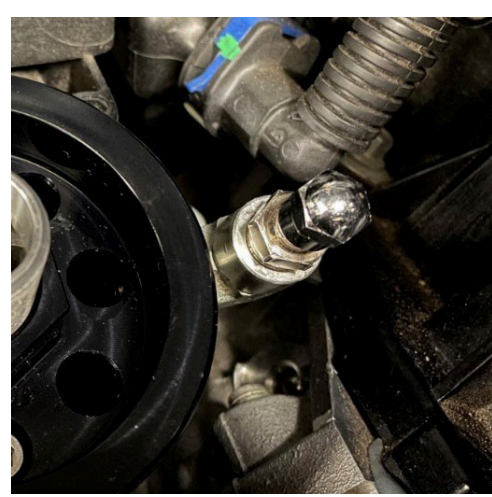
Step 8: Lock the adapter in place, by tightening the socket head cap screw with a 5/32 hex wrench.



Step 6: Install body O-ring seal and lubricate with engine oil.



Step 9: Lubricate threads on Schrader valve and install. (Using 1/2" wrench, install optional 90-degree fitting if needed for better access or clearance)



Servicing instructions at Oil Change:

Prior to oil filter removal and draining engine oil from the oil pan, apply 30-80 PSI to the Schrader valve for at least three seconds. This will evacuate the oil retained in the oil filter and cooler. Then, remove the oil filter and replace.