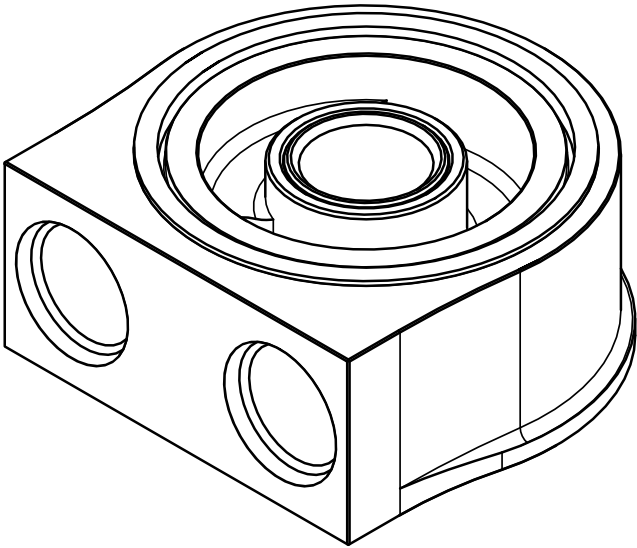




OIL FILTER SANDWICH PLATE FOR OIL COOLERS

PART NO. ENV-139

MADE IN USA



IMPORTANT: Please read these instructions in their
entirety prior to installation.

For contact information, visit www.improvedracing.com
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APPLICATIONS & PARTS CHECK

- Visit the website product page to confirm vehicle application and confirm all parts have arrived by checking the images:



TECHNICAL SPECIFICATIONS

Max. Operating Temp.	302°F (150°C)
Min. Operating Temp.	-22°F (-30°C)
Max. Operating Pressure	300 psi (20.68 bar)
Dimensions (W x H x D)	3.2" x 1.4" x 4.6" (81.3 mm x 35.6 mm x 117 mm)
Weight	13.1 oz (373 g)
Connections	-10 SAE J1926-1 ORB - 7/8-14 UNF - 2A
Housing Material	CNC-Milled 6061-T6 Billet Aluminum
Housing Finish	MIL-A-8625, Type II Anodizing
Seal Material	Viton (FKM) Elastomer
Filter Screw Material	CNC-Milled 410 Stainless Steel

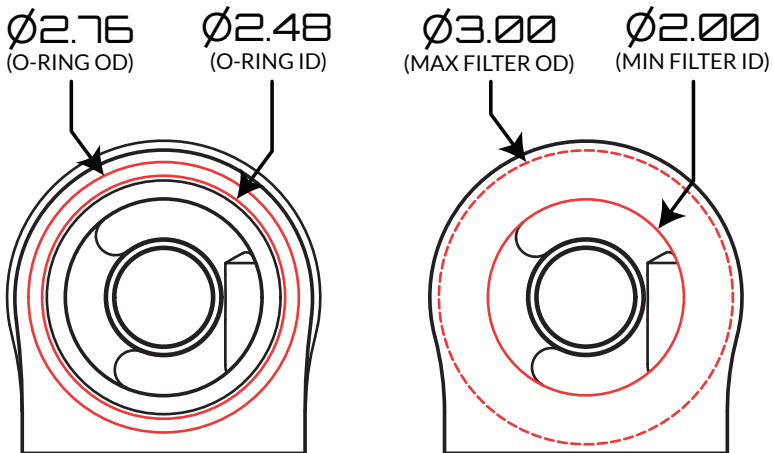













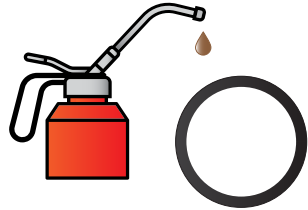
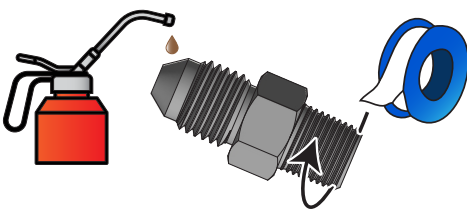


Figure 2 - Oil Filter Limits


BEFORE YOU BEGIN

-  **WARNING: NEVER work under a vehicle supported only by a jack.**
-  **WARNING: NEVER cap / plug the ports on the ENV-139 adapter.**
-  **WARNING: Capped / plugged oil ports block oil flow in the engine and may result in catastrophic engine damage.**
-  Use a union to loop the lines, or create a new line to join the ports if servicing or removing the oil cooler from the vehicle
-  **WARNING: This product should be installed by a qualified mechanic.**
-  **WARNING: Improper installation could result in severe engine damage.**
-  Use aluminum tools to avoid damaging fittings.
-  Lubricate adapter fitting flares for a better seal.
-  Wrap tapered pipe threads (NPT, FNPT, MNPT) with Teflon (PTFE) tape or apply thread sealant to seal the threads.
-  Lubricate O-rings on adapter fittings before installing into ports to prevent damage and ensure a leak-free seal.
-  Use zip-ties and P-clamps to retain lines from abrading against the exhaust, engine, suspension components and chassis.
-  Ensure the oil cooler is isolated from vibration.
-  Pre-fill the cooler with oil to prevent a dry startup.



INSTALLATION INSTRUCTIONS

PREPARING FOR INSTALLATION


1. Open the hood and / or raise the vehicle to access the oil filter.
2. Support the vehicle with automotive-certified jack stands, power lift, or wheel ramps.
-  Lift points can be found in the vehicle owners manual.
3. Remove any covers or panels necessary to access the oil filter.
4. Place a drain pan under the oil filter and remove the filter.

 **Oil may be hot!**



5. Secure the oil cooler to the vehicle.
6. Plan, measure and assemble the hydraulic fittings and lines.


INSTALLING ENV-139

1. Ensure that the O-ring is properly seated in the top of ENV-139.
2. Using a 1 1/8" socket, secure ENV-139 to the oil filter threads on the engine block or oil pan using the included filter screw (HSC-104X).
3. Torque HSC-104X to 20 lb-ft (27 N-m).
4. Lubricate the sandwich plate fitting flares with oil and connect the oil lines.
5. Torque both fitting connections on ENV-139 to 25 lb-ft (34 N-m).

 Use aluminum tools to avoid damage to fittings.

COMPLETING THE INSTALLATION

1. Fill a new oil filter with oil and install the filter onto the sandwich plate.
-  Lubricate the oil filter seal with engine oil prior to installation.
2. Check the engine oil level and add oil if needed.
3. Remove the fuel pump fuse(s) or disconnect the ignition circuit.
-  Consult the vehicle's factory owners manual for the fuse location.
4. Crank the engine over to build oil pressure.
5. Replace any fuse(s) removed and/or reconnect the ignition circuit.
6. Start the vehicle and inspect for leaks.
7. Turn-off the vehicle and inspect the engine oil level. Add oil if necessary.
8. Reinstall any underbody panels and safely lower the vehicle back onto the ground.
9. Re-inspect the oil lines and fittings for leaks after 100 miles of driving.

 Installation is now complete. Thank you for purchasing an Improved Racing product!