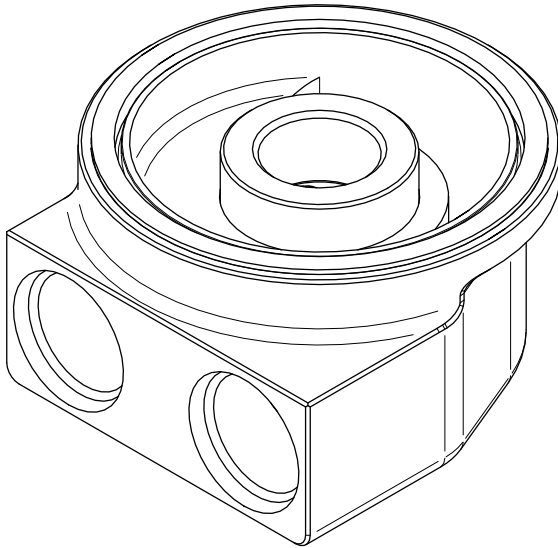




## REMOTE OIL FILTER & OIL COOLER ADAPTER

PART NO. ENV-191

MADE IN USA



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

For contact information, visit [www.improvedracing.com](http://www.improvedracing.com)  
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## APPLICATIONS

- ENV-191 is intended for use with remote oil filter systems.
- ENV-191 is offered in the following oil filter thread sizes:
  - $\frac{3}{4}$ " - 16 UNF - 2A
  - $\frac{13}{16}$ " - 16 UN - 2A
  - M20x1.50 - 6h
  - M22x1.50 - 6h

## PARTS LIST & SCHEMATIC

Item	Qty	Part Number	Description
1	1	ENV-191	Remote Oil Filter & Cooler Adapter
2	1	HRG-1028	AS568 -219 O-ring for Screw
3	1	HRG-1022	AS568 -230 Square O-Ring
4	1	HSC-51XX	Oil Filter Adapter Screw (Choose Thread Size)

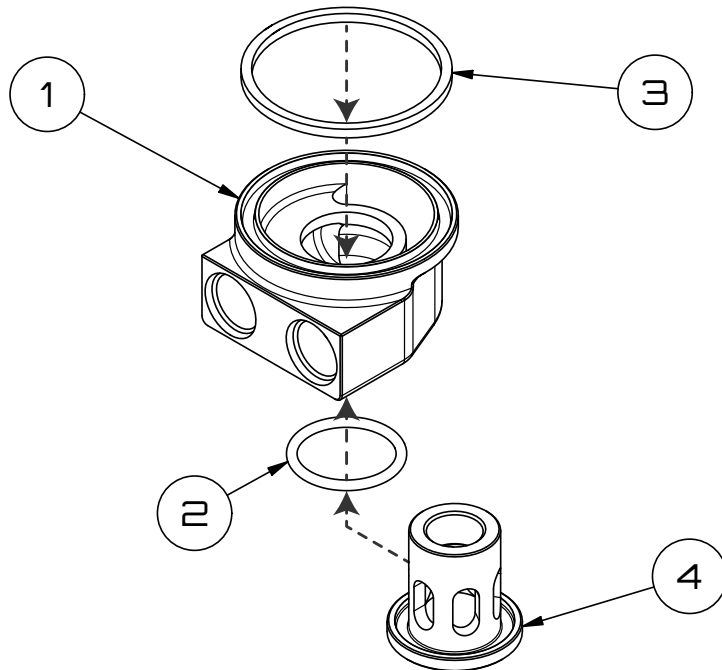


Figure 1 - ENV-191 Schematic

Part Number	Oil Filter Thread Specification
ENV-191-F1	$\frac{3}{4}$ "-16 UN
ENV-191-F2	M20x1.50
ENV-191-F3	$\frac{13}{16}$ "-16 UN
ENV-191-F4	M22x1.50

## TECHNICAL SPECIFICATIONS

Max. Operating Temp.	302°F (150°C)
Min. Operating Temp.	-22°F (-30°C)
Max. Operating Pressure	300 psi (20.68 bar)
Weight	8.1 oz (232 g)
Connections	-10 SAE J1926-1 Straight Thread O-ring Port - $\frac{7}{8}$ "-14 UNF - 2A
Housing Material	CNC-Milled 6061-T6 Billet Aluminum
Housing Finish	MIL-A-8625, Type II Anodizing (Black)
Seal Material	Viton (FKM) Elastomer
Filter Screw Material	CNC-Milled 6061-T6 Billet Aluminum
Filter Screw Finish	MIL-A-8625, Type II Anodizing (Green)

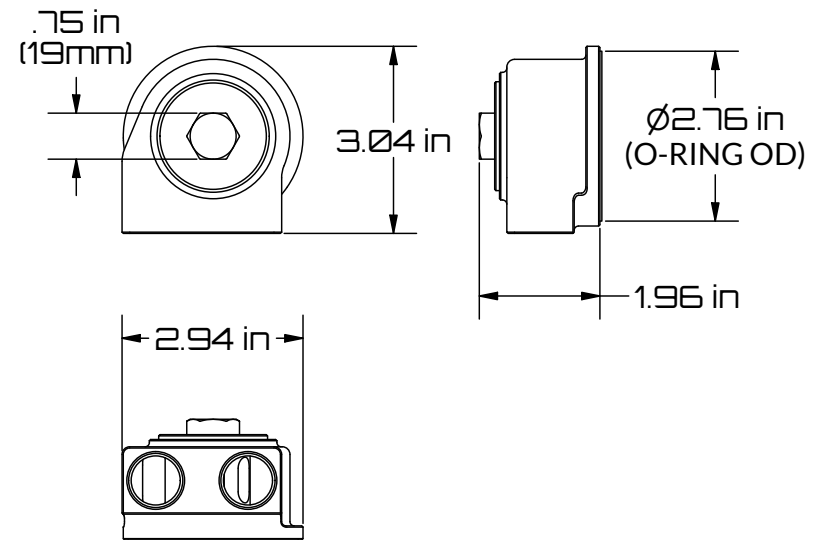









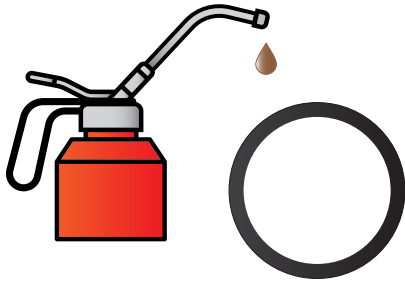



Figure 2 - Dimensions



## BEFORE YOU BEGIN

-  **ENV-191 must be used with a remote oil filter system.**
-  **WARNING: DO NOT CAP OFF THE OIL PORTS after the adapter is installed. Running the engine with the ports capped will block oil flow and result in catastrophic engine damage.**
-  **WARNING: NEVER work under a vehicle supported only by a jack.**
-  **This product should only be installed by a qualified mechanic. Improper installation could result in severe engine damage.**
-  **Never secure hoses to moving components.**
-  Use zip-ties and P-clamps to ensure no hoses pinch / rub on the exhaust, engine, suspension components and chassis.
-  Ensure oil coolers are isolated from vibration.
-  Pre-fill oil coolers with oil to prevent a dry startup.
-  Lubricate O-rings prior to installation to prevent damage and ensure a leak-free seal.



-  Use aluminum tools to avoid damage to fittings.

## PREPARING FOR INSTALLATION



1. Access the oil filter by opening the hood and / or raising the vehicle with automotive-certified jack stands, power lift, or wheel ramps.
-  Lift points can be found in the vehicle owners manual.
2. Place a drain pan under the oil filter and remove the filter.
-  **Caution: Oil may be hot!**
3. Secure the remote filter mount to the vehicle.
4. Secure the oil cooler to the vehicle, if applicable, and pre-fill with oil.

5. Plan, measure and assemble the hydraulic fittings and lines.

## INSTALLING ENV-191

1. Ensure each O-ring is seated in the correct O-ring gland. Reference Figure 1 for help.
2. Use a  $\frac{3}{4}$ " (19mm) socket to secure ENV-191 to the oil filter threads with the included filter screw (HSC-51XX).
3. Torque HSC-51XX to 15 lb-ft (20 N-m).
4. Install the oil line adapter fittings into ENV-191.
5. Torque both fitting connections on ENV-191 to 25 lb-ft (34 N-m).

## COMPLETING THE INSTALLATION

1. Connect the oil lines and torque the connections to 25 lb-ft (34 N-m).
2. Pre-fill a new oil filter and install the filter onto the remote filter mount.
-  Lubricate the oil filter seal with engine oil prior to installation.
3. Check the engine oil level and add oil if needed.
4. Remove the fuel pump fuse(s) or disconnect the ignition circuit.
-  Consult the vehicle's factory owners manual for the fuse location.
5. Crank the engine over to build oil pressure.
6. Replace any fuse(s) removed and/or reconnect the ignition circuit.
7. Start the vehicle and inspect for leaks.
8. Turn-off the vehicle, look for leaks and check the engine oil level. Re-torque line connections and add oil if necessary.
9. Reinstall any underbody panels and safely lower the vehicle back onto the ground.
10. Re-inspect the oil lines and fittings for leaks after 1-2 heat cycles.

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