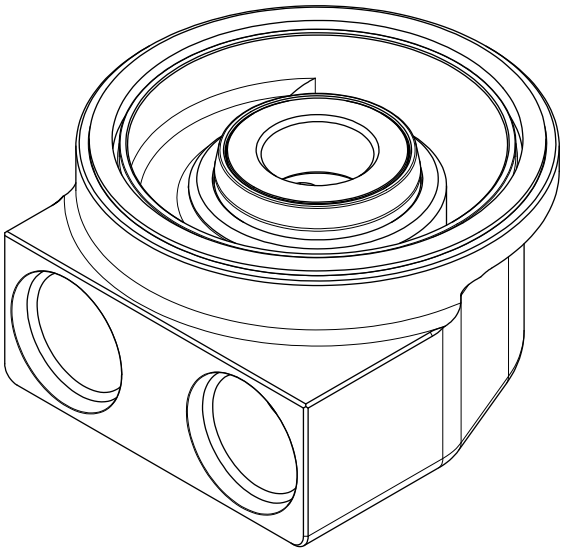
LOW PROFILE REMOTE OIL FILTER TAKE-OFF ADAPTER

PART NO. ENV-192

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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Rev 240912

PARTS CHECK

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

INSTALLATION INSTRUCTIONS

BEFORE YOU BEGIN

WARNING: NEVER work under a vehicle supported only by a jack.

WARNING: NEVER cap / plug the oil ports on the ENV-192 adapter.

WARNING: Capped / plugged oil ports block oil flow in the engine and may result in catastrophic engine damage.

WARNING: ENV-192 must be used with a remote oil filter system.

Refer to Figure 2 and confirm all system lines are correctly plumbed.

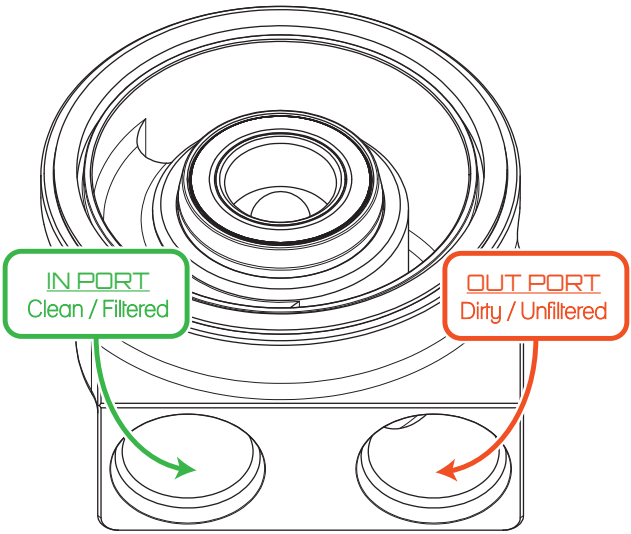
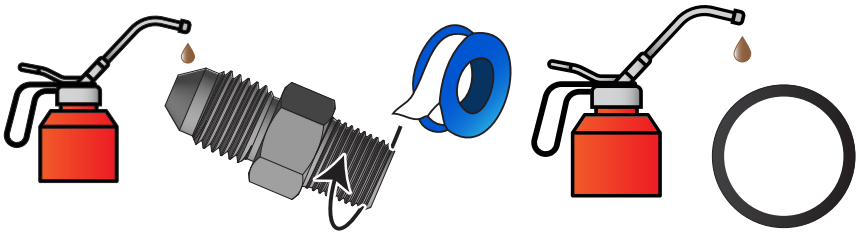


Figure 1 - ENV-192 Port Plumbing

- Lubricate threads and flares on fittings for a reliable seal.
- Refer to the torque specifications on page 5 for proper hose-end-to-adapter-fitting tightening.
- Wrap tapered pipe threads (NPT) with Teflon (PTFE) tape or apply thread sealant to the threads.
- Lubricate every O-ring to prevent damage and ensure a leak-free seal.
- **Never secure hoses to moving components.**
- Use zip-ties and P-clamps to stop oil lines from rubbing against the exhaust, engine, suspension components and chassis.
- Use aluminum tools to avoid damaging fittings.



INSTALLING THE FILTER THREAD ADAPTER

1. Clean the HNT-500X filter thread adapter screw with isopropyl alcohol.
2. Apply red thread lock, such as Loctite 263, onto HNT-500X as Figure 2 shows.

- Confirm 1-2 threads are completely covered around HNT-500X.

3. Insert HNT-500X into ENV-192 and finger-tighten until the thread adapter is flush with ENV-192.

- The full-cure time for thread lock is 24 hours, and the setup time is 10 minutes.

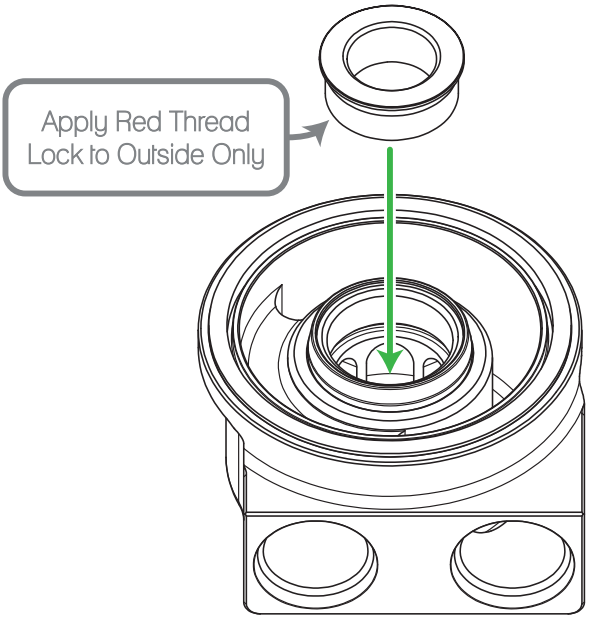


Figure 2 - Installing the Oil Filter Screw Adapter

REMOVE THE ORIGINAL SYSTEM FILTER

1. Place a drain pan under the filter and remove the filter.

⚠ **Caution: Fluid may be hot!**

Allow all fluid to drain after removing the filter.

INSTALLING ENV-192

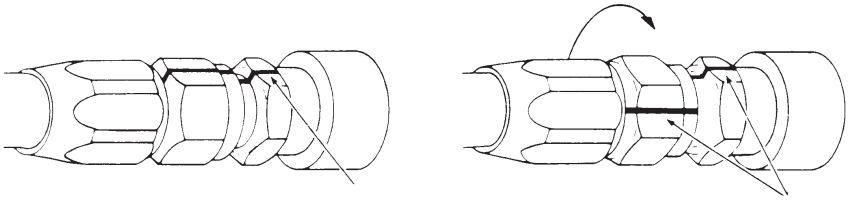
1. Confirm the O-ring is installed.
2. Clean the sealing surface.
3. Use a $^{3}/_{4}$" (19mm) socket to secure ENV-192 to the oil filter threads.
4. Rotate the adapter for your line installation.
5. Torque the screw to 15 lb-ft (20 N-m).
6. Confirm ENV-192 is completely flush with the sealing surface.

The O-ring should not be visible when properly tightened.

7. Install the adapter fittings into IN and OUT ports.
8. Torque the adapter fittings to 33 lb-ft (45 N-m).

COMPLETING THE INSTALLATION

1. Connect and torque the hose ends to ENV-192 according to the steps below for your line size.
   a. Hand tighten the fittings.
   b. Mark the flats as shown in Figure 3.
   c. Tighten according to the table below.



Mark a line on the nut and adapter before torquing.

Misalignment of the mark shows the amount which the nut was tightened.

Figure 3 - Marking the Fittings for Correct Tightening

Size	Number of Hex Flat Rotations
-8	1.25 to 1.75
-10	1.25 to 1.75
-12	1 to 1.5

2. Check the engine oil level and add oil if necessary.
3. Prime the system when applicable.
4. Start the engine and check for oil leaks.

Confirm oil pressure is stable and reading the correct value.

5. Confirm the fluid levels and top off if needed.
6. Inspect all parts for loosening or leaks after one heat cycle and 100 miles of driving.

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