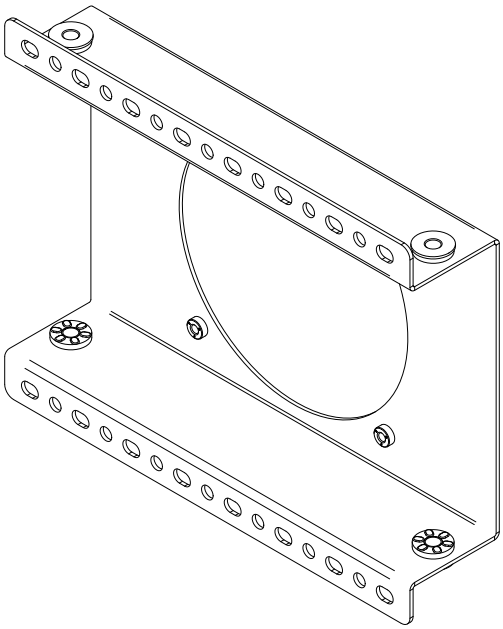
FAN SHROUD FOR MHX SERIES HEAT EXCHANGERS

MADE IN USA



Important: Read these instructions in their entirety prior to installation

For contact information, visit www.improvedracing.com

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Rev 251022

PRODUCT INFORMATION

- Visit the product page for technical data and configuration options.

SCHEMATIC, PARTS LIST & HARDWARE

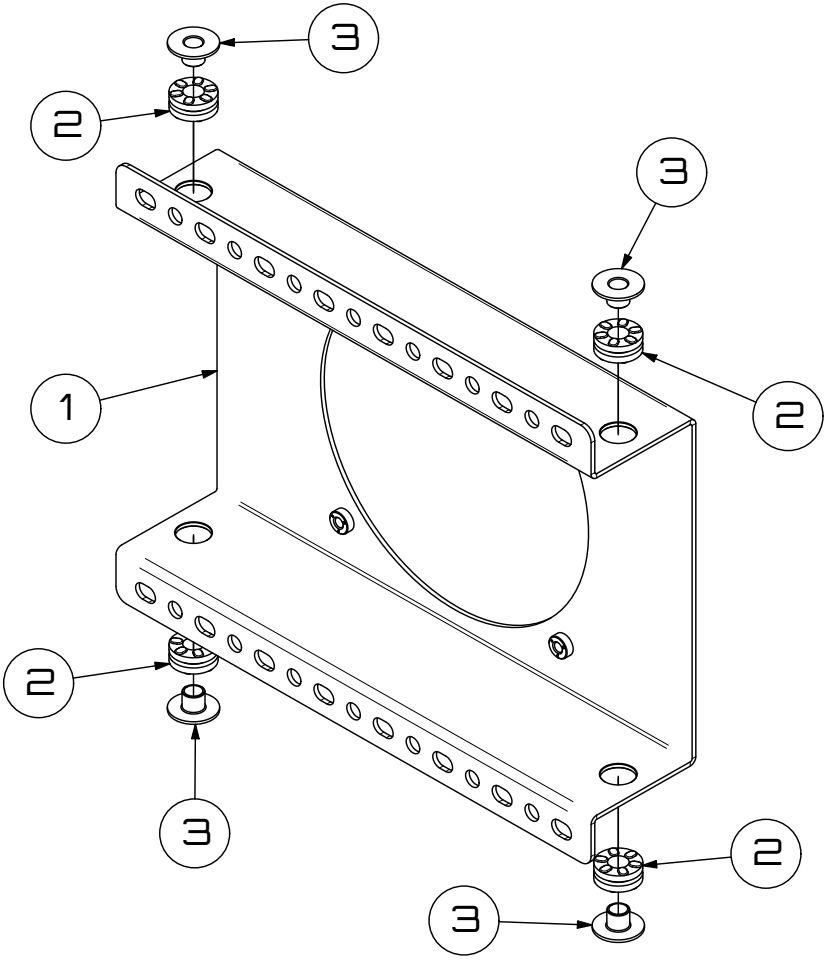


Figure 1 - Fan Shroud Assembly Schematic

Item	Quantity	Part Number	Description
1	1	MHX-5XX-FS	Fan Shroud
2	4	HVR-1002	Rubber Isolator
3	4	HVR-1003	Rubber Isolator Bushing

INSTALLATION INSTRUCTIONS

BEFORE YOU BEGIN

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

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: Only qualified mechanics should install this part.

WARNING: Improper installation may result in severe engine damage.

This product is not recommended for use with highly corrosive fluids.

Lubricate threads and flares on fittings for a reliable seal.

Lubricate every O-ring to prevent damage and ensure a leak-free seal.

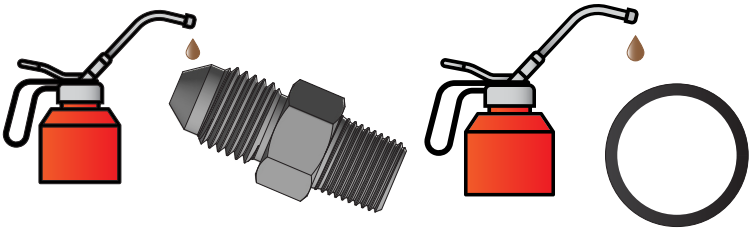
Never secure lines to moving components.

Use zip-ties and P-clamps to stop oil lines from rubbing against the exhaust, engine, suspension components and chassis.

Confirm heat exchangers are isolated from vibration.

Pre-fill heat exchangers to prevent a dry startup.

Use aluminum tools to avoid damaging fittings.



INSTALL THE HEAT EXCHANGER & FAN

1. Test the SPAL fan using the fan relay harness kit and a 12V power supply to confirm the fan works and moves air in the desired direction.
2. Secure the SPAL fan to the shroud using four included screws.
3. Torque the screws according to the fan shroud below:
   a. MHX-514-FS = M6 flange screws to 80 lb-in (9 N-m)
   b. MHX-520-FS = M8 round head screws to 110 lb-in (12.5 N-m).
4. Install the heat exchanger into the shroud using the last four screws included with the kit.

5. Use a 12mm tool to torque the screws to 15 lb-ft (20 N-m).
6. Install the fan shroud assembly into the selected location on the chassis/ vehicle using a minimum of three screws.

Confirm both mounting flanges are secured.

7. Refer to the SPAL instructions to complete the wiring.
8. Refer to the section, Install the Heat Exchanger in the MHX manual to complete the installation.

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