



## COOLANT PIPE CONVERSION KIT

2013 - 2019 6.7L CUMMINS | 213004

INSTALLATION GUIDE

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Rev: 02.29.20

# COOLANT PIPE CONVERSION KIT

6.7L CUMMINS



## TROUBLESHOOTING

Please read and understand all installation instructions before proceeding with the installation. If you have questions during the installation of this product, please contact H&S Motorsports support at [tech@hs-motorsports.com](mailto:tech@hs-motorsports.com) or **(855) 623-4450**.

## INCLUDED PARTS

- 1 - HSM Billet Anodized Adapter
- 1 - Black anodized 90-degree fitting
- 1 - Hose, clamps, and hardware

## STEP 1

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Disconnect the vehicle batteries.

## STEP 2

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Remove the bolt from the power steering reservoir and set aside to provide access to the coolant drain valve. Drain the engine coolant into a clean bucket or pan. Completely drain the system and tighten the drain valve when finished. Re-install the power steering reservoir and bolt.

**NOTE:** *The coolant may be re-used if it is in good condition.*



## STEP 3

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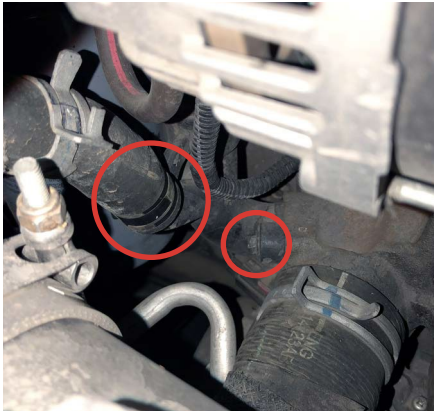
Unplug the sensors from the air intake system and disconnect the air intake from the turbocharger. Carefully remove the entire air intake system from the vehicle. Remove the bolts and clips from the passenger side fender liner and remove the liner to provide access for later steps.

## STEP 4

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Disconnect all hoses from the factory coolant pipe assembly. Remove the bolt holding the factory coolant pipe assembly to the back of the water inlet bracket (located near the bottom of the pipe). Carefully rock/wiggle the pipe while pulling away from the water inlet bracket to disconnect the pipe from the bracket. Remove the factory pipe assembly from the vehicle

**NOTE:** *Some coolant may still be present in the system. Take the proper precautions to avoid excessive spillage/mess.*



## STEP 5

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Locate the supplied HSM billet adapter fitting and 90-degree fitting. Using pipe thread sealant, install the 90-degree fitting into the billet adapter fitting. Tighten the fitting and ensure that it is oriented in the adapter as shown. Apply some vaseline or grease to the o-ring of the billet adapter fitting and install the fitting into the engine water inlet bracket. Secure the adapter to the water inlet bracket with the supplied 6mm x 1.0 x 20mm bolt and torque to 80 in-lbs.



## STEP 6

Using the supplied #8 hose clamps, install the supplied 2" section of 5/8" hose and plastic tee (use smaller 5/8" straight side barb) to the previously installed fitting as shown. Ensure that the plastic tee is oriented as shown before tightening clamps. Install the previously disconnected 3/4" coolant hose onto the top (larger 3/4") barb of the tee fitting and secure using the factory clamp. Install the supplied shielding onto the supplied 22" section of 5/8" hose. Using one of the supplied #8 hose clamps, install the 22" section of 5/8" hose to the remaining barb on the plastic tee fitting as shown. Route the upper 5/8" heater hose (previously removed from the factory coolant pipe) back down along the factory de-gas bottle as shown and using the supplied 5/8" barb coupler, join this factory heater hose to the 22" section of 5/8" hose at location shown. Verify hose routing and tighten all clamps.



## STEP 7

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Using the supplied zip-ties, secure all hoses away from any hot or moving components. Reinstall the passenger side inner fender liner.

## STEP 8

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Cut the 3/8" hose coming from the factory de-gas bottle that was previously connect to the top of the factory coolant pipe. Install the supplied plug in the end of the 3/8" hose and secure with clamp.

## STEP 9

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Re-fill the cooling system with clean engine coolant. Re-install the air intake system and reconnect all sensors. Re-connect the vehicle batteries.

## STEP 10

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Start the vehicle and ensure there are no leaks present. After verifying that no leaks are present, allow the engine to achieve normal operating temperature. Bleed and top off the engine cooling system as necessary.

Enjoy your HSM Coolant Pipe Conversion!



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