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BD 5.7L/6.4L HEMI Exhaust Manifold Kit

1041463	FULL KIT RAM 5.7L HEMI: 1500 DS 09-24 / 2500-3500 09-18
1041464	PASSENGER SIDE KIT RAM 5.7L & 6.4L HEMI: 1500 DS 09-24 / 2500-5500 09-26
1041465	DRIVER SIDE KIT RAM/DODGE/JEEP 5.7L HEMI: 1500 DS & DT 09-24 / 2500-5500 09-18 / DURANGO 11-26 / GRAND CHEROKEE & WAGONEER 11-23
1041467	FULL KIT RAM/DODGE/JEEP 5.7L HEMI: 1500 DT 19-24 / DURANGO 11-26 / JEEP GRAND CHEROKEE & WAGONEER 11-23
1041469	PASSENGER SIDE KIT RAM/DODGE/JEEP 5.7L HEMI: 1500 DT 19-24 / DURANGO 11-26 / JEEP GRAND CHEROKEE & WAGONEER 11-23

*See Vehicle Fitment table for additional model fitment detail

Vehicle Fitment




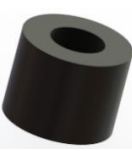

Vehicle Model	App. Year	Full Kit	Pass Side	Driver's Side
Ram 1500 5.7L (DS "Classic" Only*)	2009-2024	1041463	1041464	1041465
Ram 1500 5.7L (DT Body Only)	2019-2024	1041467	1041469	1041465
Ram 2500 5.7L	2009-2018	1041463	1041464	1041465
Ram 3500 5.7L	2013-2018	1041463	1041464	1041465
Ram 3500 5.7L Cab and Chassis	2011-2015	1041463	1041464	1041465
Dodge Durango 5.7L	2011-2026	1041467	1041469	1041465
Jeep Grand Cherokee 5.7L	2011-2023	1041467	1041469	1041465
Jeep Wagoneer 5.7L	2022-2023	1041467	1041469	1041465
Ram 2500/3500 6.4L	2014-2024	1041454	1041464	1041456
	2025-2026	1041455	1041464	1041457
Ram 3500/4500/5500 6.4L C&C	2014-2024	1041454	1041464	1041456
	2025-2026	1041455	1041464	1041457



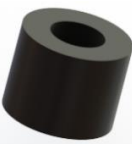

*DS models labeled as "Classic" from 2019 model year onward



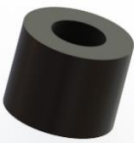

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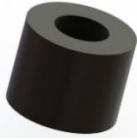

Kit Contents

1041463 Full Exhaust Manifold Kit (DS "Classic")					
1401464	1401466	1401465	1401467	1403009	1451469
					
PS Exh Manifold	PS Exh Gasket	DS Exh Manifold	DS Exh Gasket	Bolt Spacer	Fastener Kit **See Table**
Qty: 1	Qty: 1	Qty: 1	Qty: 1	Qty: 20	Qty: 2





1041467 Full Exhaust Manifold Kit (DT, Durango & Grand Cherokee)					
1401469	1401466	1401465	1401467	1403009	1451469
					
PS Exh Manifold	PS Exh Gasket	DS Exh Manifold	DS Exh Gasket	Bolt Spacer	Fastener Kit **See Table**
Qty: 1	Qty: 1	Qty: 1	Qty: 1	Qty: 20	Qty: 2

1041464 Passenger Side Exhaust Manifold Kit (DS "Classic")			
1401464	1401466	1403009	1451469
			
PS Exh Manifold	PS Exh Gasket	Bolt Spacer	Fastener Kit **See Table**
Qty: 1	Qty: 1	Qty: 10	Qty: 1


1041469 Passenger Side Exhaust Manifold Kit (DT, Durango & Grand Cherokee)			
1401469	1401466	1403009	1451469
			
PS Exh Manifold	PS Exh Gasket	Bolt Spacer	Fastener Kit **See Table**
Qty: 1	Qty: 1	Qty: 10	Qty: 1

1041465 Driver Side Exhaust Manifold Kit (DS, DT, Durango & Grand Cherokee)			
1401465	1401467	1403009	1451469
			
DS Exh Manifold	DS Exh Gasket	Bolt Spacer	Fastener Kit **See Table**
Qty: 1	Qty: 1	Qty: 10	Qty: 1

Below table contains contents of fastener kit found in above kits.

1451469 Fastener Kit Table			
M8 x 60mm Hex Bolt	3/8" x 2.5" Hex Flange Bolt	3/8" Hex Flange Nut	M6 x 12mm Hex Flange Bolt
			
Qty: 10	Qty: 2	Qty: 2	Qty: 5

INCLUDED IN ALL KITS AND CONFIGURATIONS:

1000397
Sticker; CARB D-553-30

Qty: 1

Introduction

BD's exhaust manifold kit for the 5.7L Hemi Ram pick-up trucks, Dodge Durango, and Jeep Grand Cherokee replaces the problematic OEM manifold. The BD Manifold has a uniform casting thickness, and features longer bolts and spacers to reduce the stress on the bolts, preventing them from breaking. The kits include all the required hardware and gaskets for manifold installation.

Tools Required for Installation

- 8-16mm Socket & Wrench
- 9/16 in socket
- 7/8" Deep Socket
- Screwdriver
- Torque Wrench
- Retainer Clip Remover
- Broken Stud Removal Tool
- 90 degree hand drill

Heat Shield Replacement

If replacement OEM heatshields are desired, the following MOPAR® part numbers are used for both left and right manifolds:

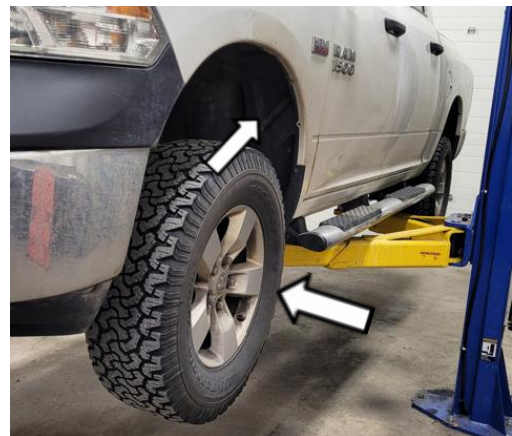
Vehicle Model	App. Year	Heat Shield Part No.
Ram 1500 5.7L (DS "Classic" Only)	2009-2024	4893964AC
Ram 1500 5.7L (DT Body Only)	2019-2024	53032968AF
Ram 2500 5.7L	2009-2018	4893964AC
Ram 3500 5.7L	2013-2018	4893964AC
Ram 3500 5.7L Cab and Chassis	2011-2015	4893964AC
Dodge Durango 5.7L	2011-2017	4893964AC
Jeep Grand Cherokee 5.7L	2011-2017	4893964AC
Dodge Durango 5.7L	2018-2022	53032968AF
Jeep Grand Cherokee 5.7L	2018-2021	53032968AF
Jeep Grand Cherokee 5.7L	2022-2023	68480064AA
Jeep Wagoneer	2022-2023	53032968AF
Ram 2500/3500 6.4L	2014-2024	53032968AE
Ram 2500/3500 6.4L	2025	68596488AA
Ram 3500/4500/5500 C&C 6.4L	2025-2026	68596488AA

Installation – Ram Pick-Up Trucks

OEM Exhaust Manifold Removal

Disconnect the vehicle battery and safely position the vehicle on a hoist before installation for safety.

Remove the driver and passenger side fender-liners and wheels.



Apply penetrating fluid on all exhaust pipe retaining, heat shield mounting bolts, and studs.



Remove the 4 flange bolts from passenger and driver side manifold to collector flange using **9/16 in** socket.



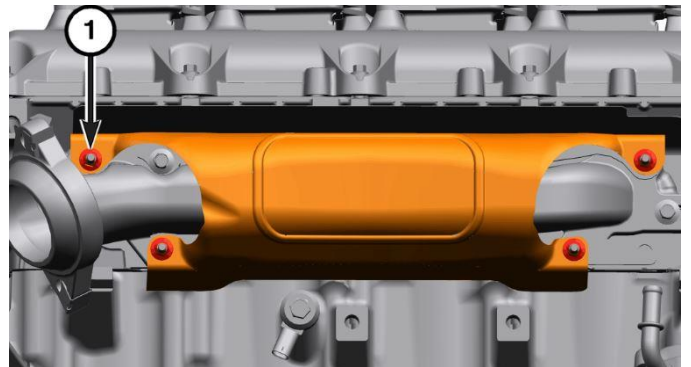
To gain more space for removal of the manifold, disconnect the mid-pipe exhaust hanger as shown.



Passenger Side Manifold Removal (5.7L/6.4L)

Using a **10 mm** socket wrench remove the four heat shield nuts (1).

Carefully remove the heat shield. It will be reused.



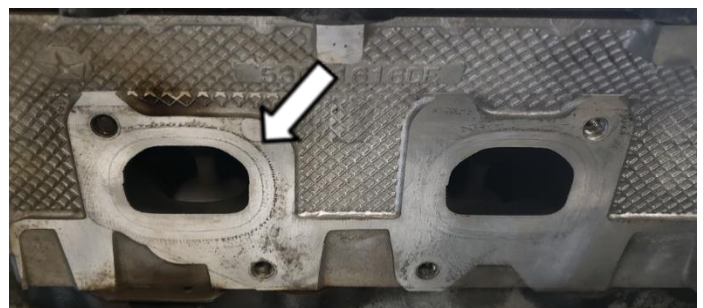
Use size **10 mm & 13 mm** socket to undo the manifold bolts.

Remove the manifold and gasket from the vehicle carefully.

Note: if needed, remove all broken bolts/studs from the engine block.

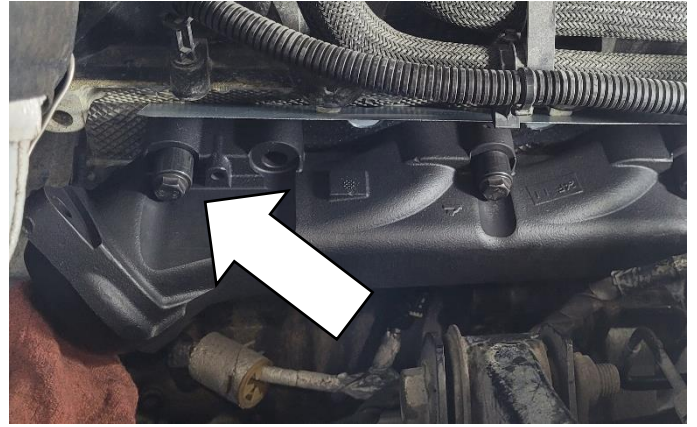


Clean and inspect mating surfaces of exhaust manifold for flatness with a straight edge.



Passenger Side Manifold Installation (5.7L/6.4L)

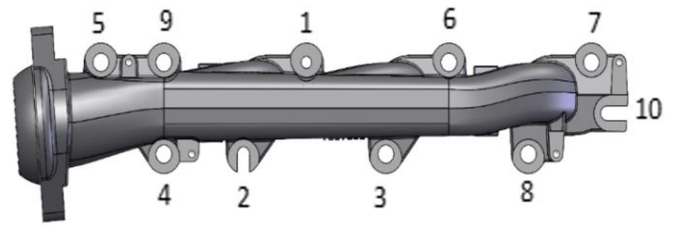
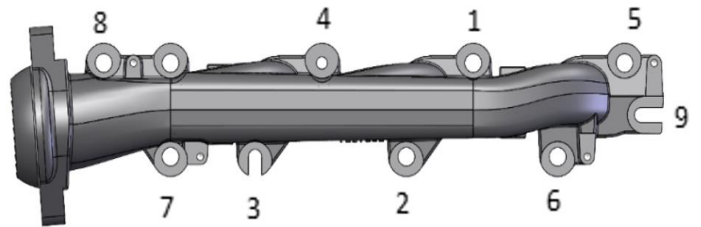
Install the exhaust manifold and gasket, using the supplied M8 bolts along with the spacers (1403009) as shown, into all available bolt holes.



Using the sequence shown, tighten the bolts as shown.

Torque to **25 N-m (18 ft-lb)**.

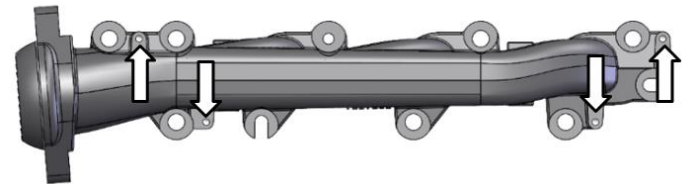
Note: early production has 9 bolts, and late production has 10 bolts.



Using the provided M6 bolts, install the OEM heat shield on the new mounting locations on the BD manifold.

Torque to **10 N-m (89 in-lb)**.

Note for DT only: Heat shield trimming required. See following step.



Install the new, supplied 3/8"-16x2.50 exhaust pipe retaining bolts and 3/8"-16 nuts into both sides.

Torque to **32 N-m (24 ft-lb)**.

Note: to avoid damaging the exhaust flange do not overtighten the flange bolts. See the tech tip below for exhaust leak solutions.



If installing on **DS “Classic”**, skip this step.

Trimming of heat shield is required for clearance of hard lines. Contact may occur between shield and line near the bottom of manifold, towards the front of the vehicle.

Trim off ~1/2” as shown and inspect for clearance as indicated by the arrow.



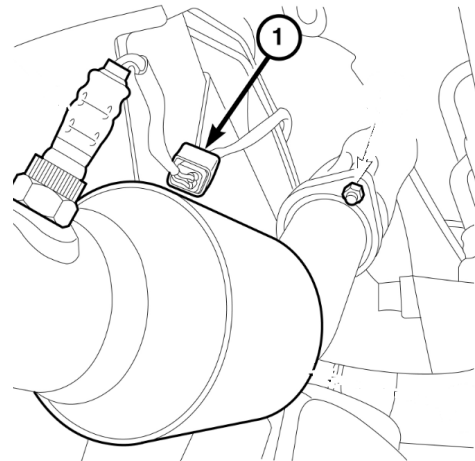
Driver Side Manifold Removal (5.7L/6.4L)

Disconnecting the steering shaft linkage may help with ease of install.

Mark the steering shaft position as shown before removing the bolt.

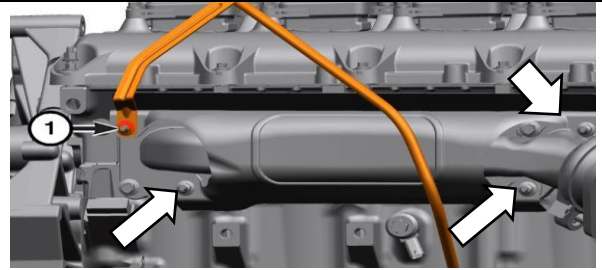


Note: On “New Body Style” RAM 1500 **DT** trucks, disconnecting the oxygen sensor electrical connector can help move wiring out of the way.



Using a **10mm** socket, remove the four heat shield nuts, and carefully remove heat shield. It will be reused.

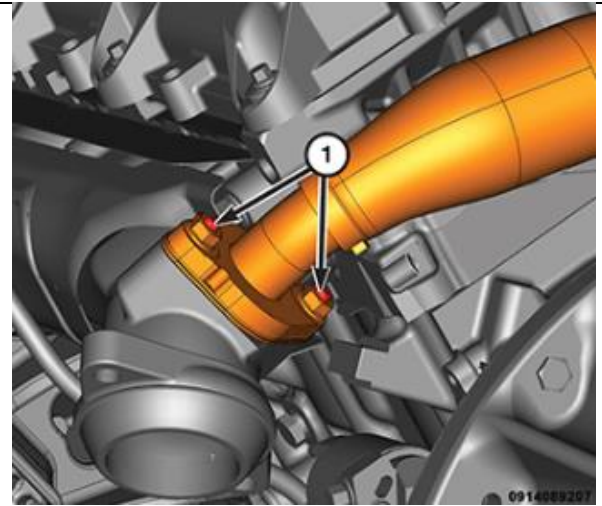
Note: One of the nuts will secure the dipstick (1).



This step is for **6.4L** engines only. Skip this step if the engine is 5.7L.

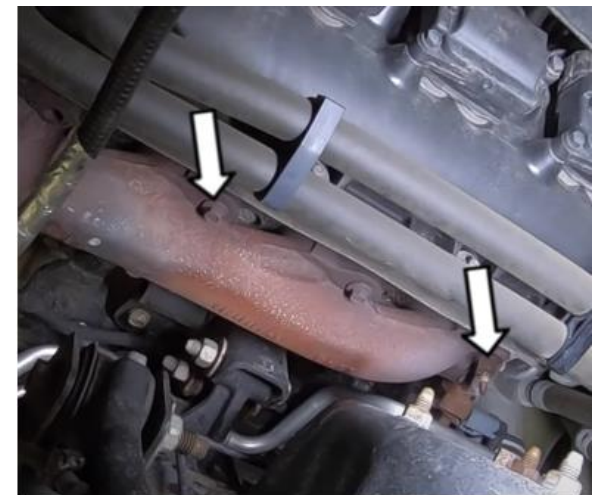
Soak the two EGR intake tube nuts with penetrant and allow 5 minutes for penetration.

Remove the two EGR intake tube nuts and disconnect the intake tube from the exhaust manifold.



Using **10 mm & 13 mm** socket, remove the left side exhaust manifold bolts. Remove the manifold and gasket carefully

Note: if needed, remove all broken bolts/studs from the engine block.



Driver Side Manifold Installation (5.7L/6.4L)

Ensure all gasket mating surfaces are clean and free of any debris.



Set the manifold into position, with the corresponding gasket. Install supplied M8 bolts and spacers, into all available bolt holes.

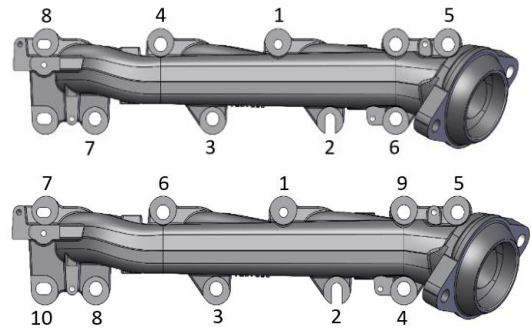
Note: for 6.4L applications, make sure to install a new EGR tube gasket.



Using the sequence shown, tighten the bolts as shown.

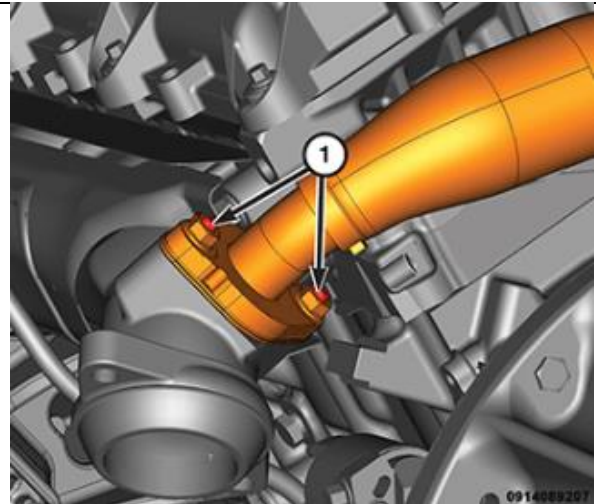
Torque to **25 N-m (18 ft-lb)**.

Note: early production has 8 bolts, and late production has 10 bolts.



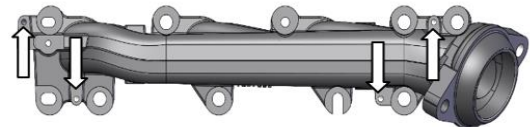
This step is for **6.4L** engines only. Skip this step if the engine is 5.7L.

Install the two EGR tube nuts and torque to **23 N-m (17 ft-lb)**.



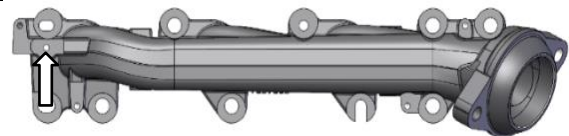
Using the provided M6 bolts (1401462), install the OEM heat shield on the new mounting locations on the BD manifold. Use size 10mm wrench.

Torque to **10 N-m (89 in-lb)**.



On the driver side manifold, install the dipstick support bracket onto the new mounting location using the supplied M6 bolt.

Torque to **10 N-m (89 in-lb)**.



If steering shaft was disconnected, align the previously created marking and insert the upper steering shaft into lower and tighten the bolt.

Torque to **50 N-m (37 ft-lb)**.



Check oil dipstick-for clearance against the hard lines after it was relocated.

If the dipstick is touching, gently push on it to adjust the mounting bracket.



Install the new supplied 3/8" -16x2.50 exhaust pipe retaining bolts and 3/8" -16 nuts in to both sides.

Torque to **32 N-m (24 ft-lb)**.

Note: to avoid damaging the exhaust flange do not overtighten the flange bolts. See the tech tip below for exhaust leak solutions.



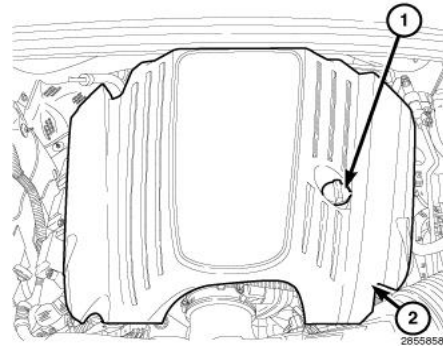
Connect the battery.
Start the engine and check for leaks
Install the inner fender liners
Install wheels

Installation – Dodge Durango & Jeep Grand Cherokee

OEM Exhaust Manifold Removal 5.7L

Disconnect the vehicle battery and safely position the vehicle on a hoist before installation for safety.

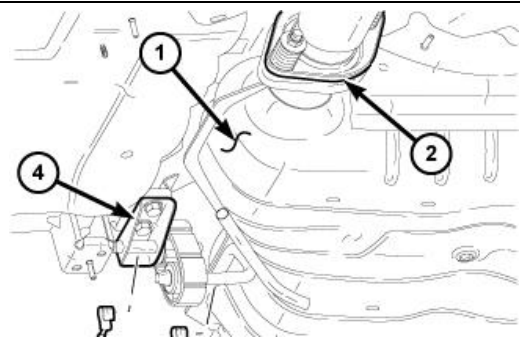
Remove the oil fill cap (1) and engine cover (2).



Apply penetrating fluid on all exhaust pipe retaining, heat shield mounting bolts, and studs.



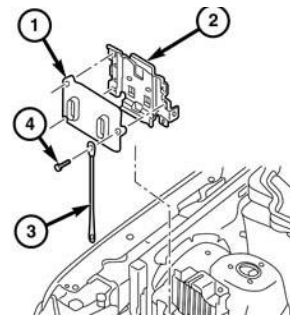
Using a **13mm** socket remove the four spring nuts from the studs (2) connecting the resonator to the catalytic converters.



Support the resonator, and remove the two **16mm** resonator support bolts (4) on each side.

Passenger Side Manifold Removal (5.7L)

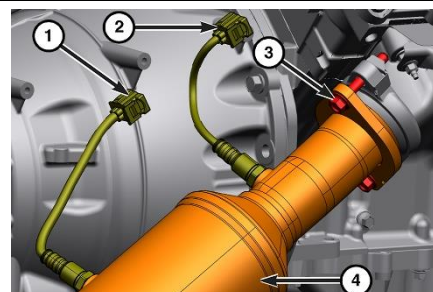
Unplug the two large connectors at the PCM attached to the power distribution box.



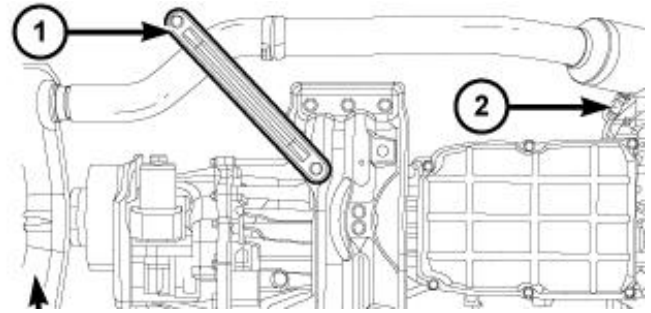
Using an **8mm** socket, remove the three PCM bolts (4). Remove the PCM (1), PCM bracket (2) and move aside the PCM ground wire (3).

Disconnect the O2 sensors from the catalytic converter (1 & 2).

Remove the two flange bolts (3) from the manifold to collector flange using a **9/16 in** socket.

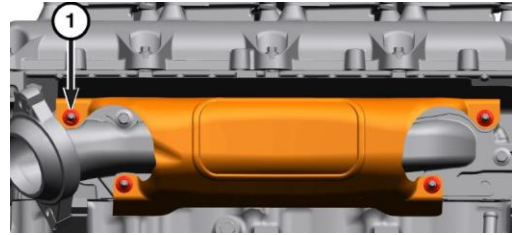


While supporting the catalytic converter, use a **16mm** socket to remove the two passenger side transmission crossmember reinforcement bolts, and bracket (1).



Remove the catalytic converter from the vehicle.

Using a **10 mm** socket wrench remove the four heat shield nuts (1).



Carefully remove the heat shield. It will be reused.

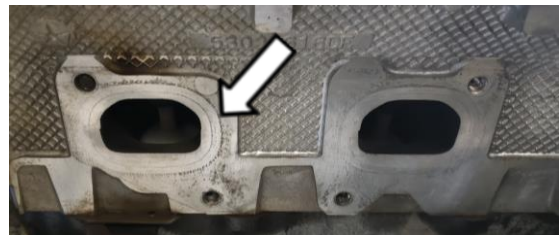
Use size **10 mm & 13 mm** socket to undo the manifold bolts.

Remove the manifold and gasket from the vehicle carefully.



Note: if needed, remove all broken bolts/studs from the engine block.

Clean and inspect mating surfaces of exhaust manifold for flatness with a straight edge.

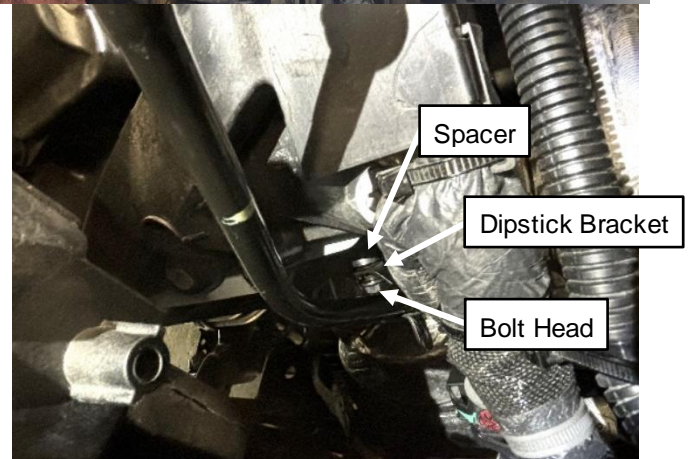


Passenger Side Manifold Installation (5.7L)

Install the exhaust manifold and gasket, using the supplied M8 bolts along with the spacers (**1403009**) as shown, into all available bolt holes.



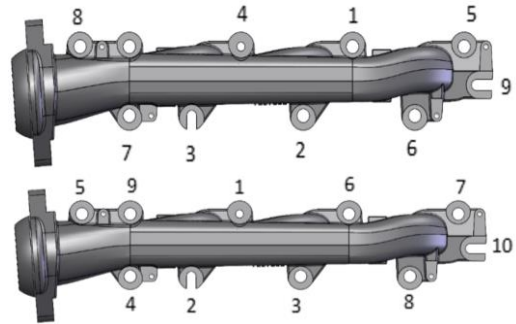
Note: The dipstick bracket should be placed between the bolt head and spacer, at the position indicated.



Using the sequence shown, tighten the bolts as shown.

Torque to **25 N-m (18 ft-lb)**.

Note: early production has 9 bolts, and late production has 10 bolts.



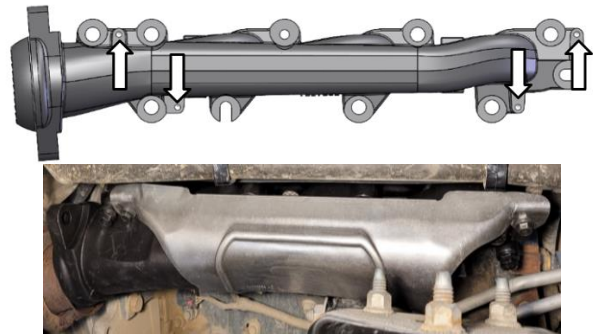
Trimming of the heat shield is required for clearance of the dipstick bracket.

Make a relief cut ~7/8" from the front edge as shown. Bend the heat shield upward to the left of the cut, and following the curve of the heat shield cut the protruding tab.



Using the provided M6 bolts, install the OEM heat shield on the new mounting locations on the BD manifold.

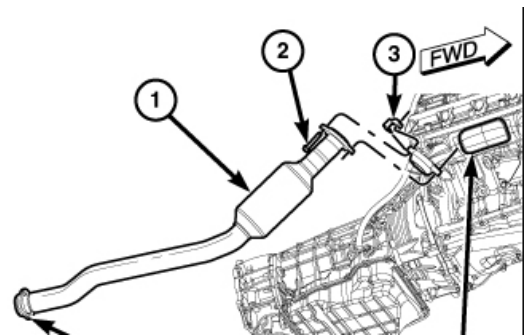
Torque to **10 N-m (89 in-lb)**.



Align the catalytic converter with the manifold, and install the passenger side transmission crossmember reinforcement bracket and bolts.

Torque to **48 N-m (35 ft-lb)**.

Connect the O2 sensors.



Install the new supplied 3/8"-16x2.50 exhaust pipe retaining bolts and 3/8"-16 nuts into the flange.

Torque to **32 N-m (24 ft-lb)**.

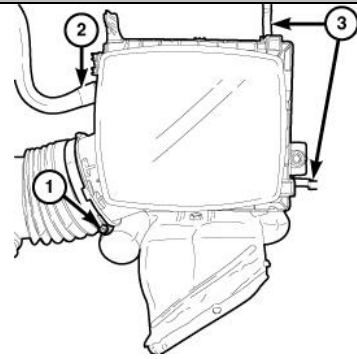
Note: to avoid damaging the exhaust flange do not overtighten the flange bolts. See the tech tip below for exhaust leak solutions.



Install the PCM Bracket, PCM, PCM ground, and connectors.
Torque PCM bolts to **9 N-m (6 ft-lbs)**.

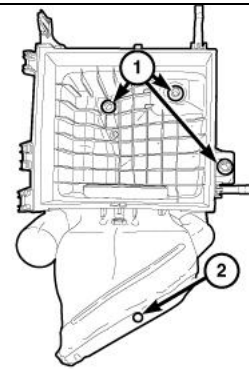
Driver Side Manifold Removal (5.7L)

Remove the air filter housing cover, by disconnecting the clean air hose (1), auxiliary air hose (2) and undoing the two clips (3).



Remove the air filter, and the hood seal push pin retainer on the air duct (2).

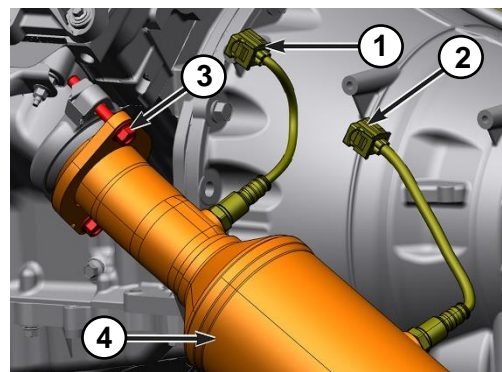
Remove the air filter housing by lifting it upwards off the studs (1)



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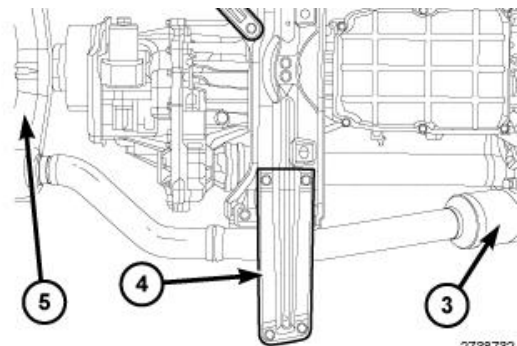
Disconnect the O2 sensors from the catalytic converter (1 & 2).

Remove the 2 flange bolts (3) from the manifold to collector flange using **9/16 in** socket.



While supporting the catalytic converter, use a **16mm** socket to remove the four driver side transmission crossmember reinforcement bolts, and bracket (4).

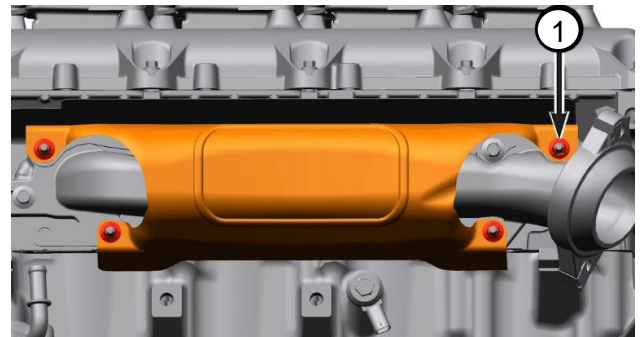
Remove the catalytic converter from the vehicle.



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Using a **10mm** socket, remove the four heat shield nuts (1).

Carefully remove the heat shield. It will be reused.



Using **10 mm & 13 mm** socket, remove the left side exhaust manifold bolts. Remove the manifold and gasket carefully.



Note: if needed, remove all broken bolts/studs from the engine block.

Clean and inspect mating surfaces of exhaust manifold for flatness with a s straight edge.



Driver Side Manifold Installation (5.7L)

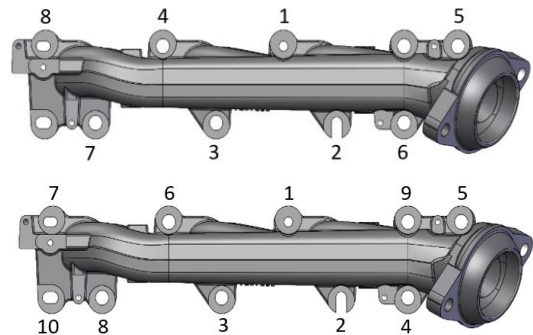
Set the manifold into position, with the corresponding gasket. Install the supplied M8 bolts and spacers, into all available bolt holes.



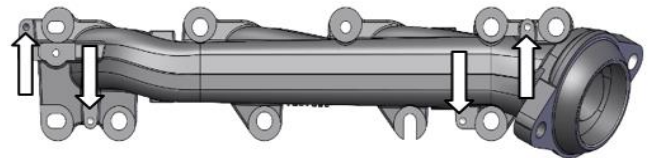
Using the sequence shown, tighten the bolts as shown.

Torque to **25 N-m (18 ft-lb)**.

Note: early production has 8 bolts, and late production has 10 bolts.



Using the provided M6 bolts (1401462), install the OEM heat shield on the new mounting locations on the BD manifold. Use size 10mm wrench.



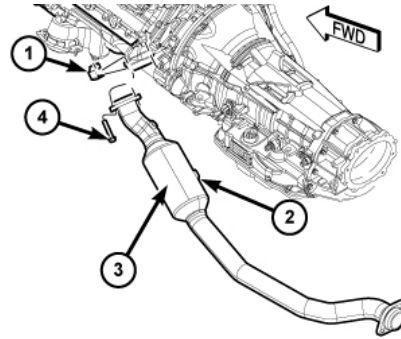
Torque to **10 N-m (89 in-lb)**.



Align the catalytic converter with the manifold, and install the driver side transmission crossmember reinforcement bracket and bolts.

Torque to **48 N-m (35 ft-lb)**.

Connect the O2 sensors.



Install the new supplied 3/8"-16x2.50 exhaust pipe retaining bolts and 3/8"-16 nuts into the flange.

Torque to **32 N-m (24 ft-lb)**.

Note: to avoid damaging the exhaust flange do not overtighten the flange bolts. See the tech tip below for exhaust leak solutions.



Install the air filter housing, filter, clear air hose and auxiliary air hose. Connect the catalytic converters to the resonator, torque spring nuts to **37 N-m (27 ft-lb)**

Install the resonator supports, and torque bolts to **20 N-m (15 ft-lb)**.

Install the engine cover and oil fill cap.

Connect the battery, then start the engine and check for leaks.

Tech Tip

Due to heat cycling of the exhaust, the exhaust flange at the manifold joint may become warped and cause a leak. To check for exhaust leaks, spray soapy water on **COLD** exhaust components and check for bubbling around joints.



Exhaust leaks can be remedied by:

- Allowing the engine to reach operating temperature, and torquing the bolts while the joint is hot.
- Disconnecting the joint, heating the exhaust flange, and refitting the joint.

If exhaust leaks persist, inspect the components for visible damage or take your vehicle to an exhaust shop.

California EO Label

IMPORTANT The supplied product information label is required to aid in inspection of the vehicle under the California Smog Check program.

Install the supplied CARB EO decal under the hood next to the vehicle emissions sticker shown.

