INSTALLATION INSTRUCTIONS
INS232

2016 - 2017 CAMARO 6.2L V8

FULL LENGTH HEADERS/ CATTED HEAD PIPES

Part #4044 and 40440



Special Tools required: 10mm, 12mm, 13mm, 15mm Socket and Wrenches, Pliers, Saw, Welder

Install Time: Approximately 4-6 hours.

Difficulty: Average.

INCLUDED IN THIS KIT
10-8 x 1.25 x 30mm bolts //
4-M12 x 1.75x65mm studs,
washers, nuts // 1-5 inch long heat-wrap //
1-12 inch long heat-wrap // 5-Zip-ties // 5 Wire-ties

NOTE! WELDING AND CUTTING REQUIRED.

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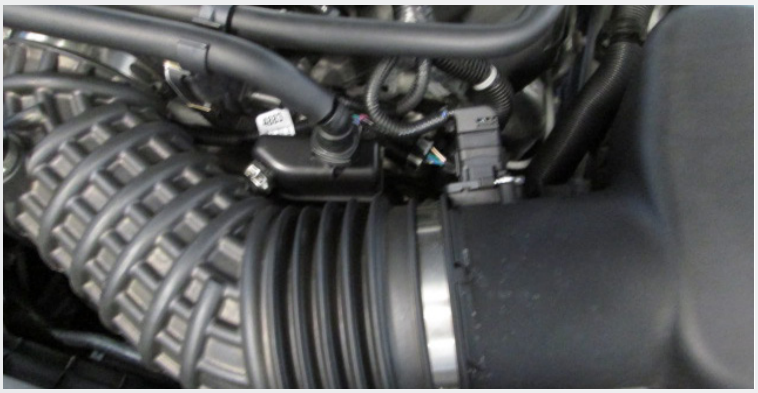
FOLLOW THESE INSTRUCTIONS CAREFULLY TO ENSURE CORRECT FITMENT AND OPERATION

STEP 1



Disconnect the negative battery terminal from the battery located in the truck on the passenger side. Place a rag over the trunk latch so the trunk lid will not latch with the battery disconnected.

STEP 2



Disconnect the mass air flow sensor from the air inlet tube. Disconnect the vacuum tube located next to the mass air flow sensor. Using pliers disconnect the sound tube from the barb fitting located on the top of the air inlet tube. Loosen the clamp that holds the air inlet tube to the throttle body. Unclip the sound tube from the side of the air box. Disconnect the inlet tube from the throttle body and lift up on the air box to release if from its mounting points and remove it from the vehicle.

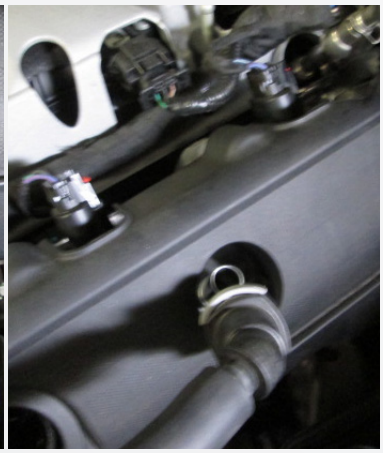
STEP 3



Remove the engine decorative covers from the engine by simply pulling them upwards released them from there mounting points.

STEP 4





Remove the (2) Torx bit screws on the driver and passenger side coil covers. On the driver side remove the oil cap. Disconnect the vacuum tube that goes into the valve cover on the driver side and passenger side. Once the vacuum tubes are off lift up on the coil covers and remove them from the vehicle. Replace oil cap so no debris will enter the engine.

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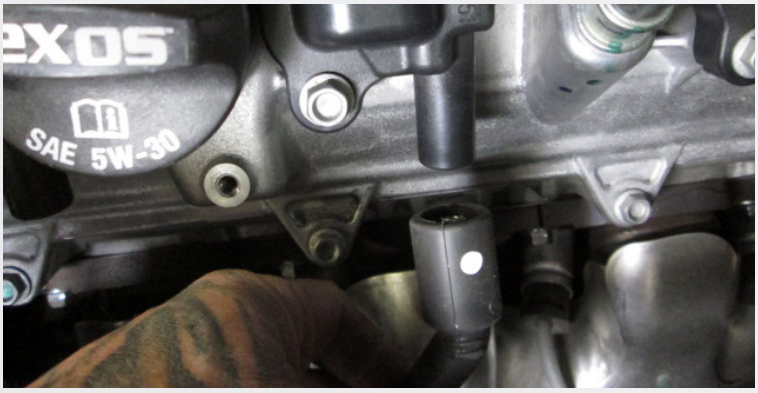
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STEP 5



Disconnect the (2) rubber mounting straps that hold the sound tube to the strut brace and A/C line located on the driver side of the engine. Below the A/C line there is another vacuum line with a quick disconnect fitting disconnect that vacuum line and push it towards the fire wall then toward the driver side inner wheel well so that it is tucked out of the way.

STEP 6



Disconnect all of the spark plug wires and spark plugs from the engine on the driver and passenger side of the engine.

STEP 7



Remove the (3) bolts that hold the heat shields to the exhaust manifold on the driver and passenger side of the engine and remove the heat shields from the vehicle.

STEP 8



Utilizing approved jack and jack stands or preferably a vehicle hoist lift the vehicle as high as possible and secure the vehicle properly. Disconnect the (4) oxygen sensor's from the wire harness.

NOTE: on the (2) driver side oxygen sensor wiring harness you will need to disconnect the wiring harness from the mounting point on the transmission. On the one closest to the front of the vehicle you will need to cut the zip tie from the connector which allows the wiring harness to stretch out and become longer.

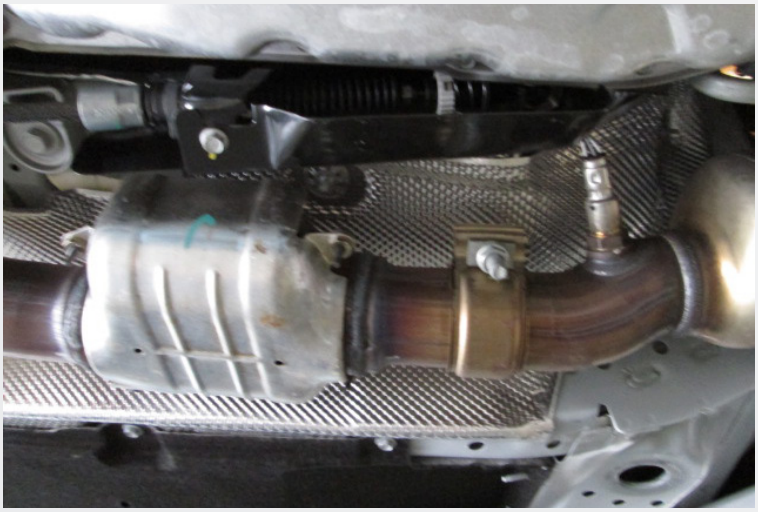
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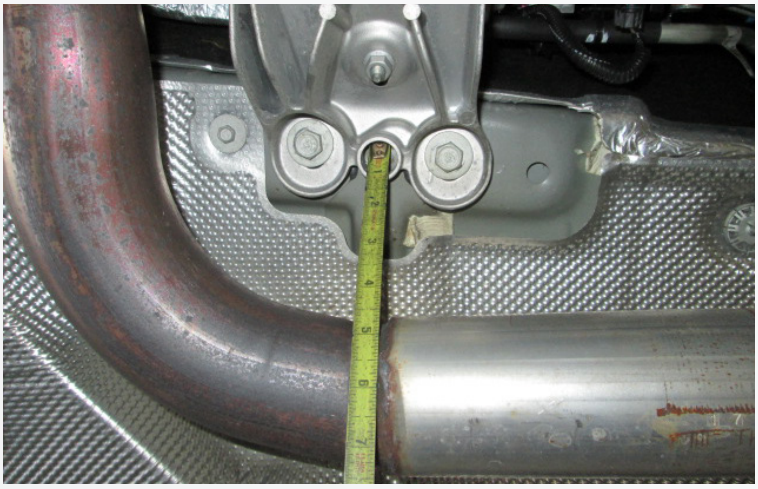
STEP 9

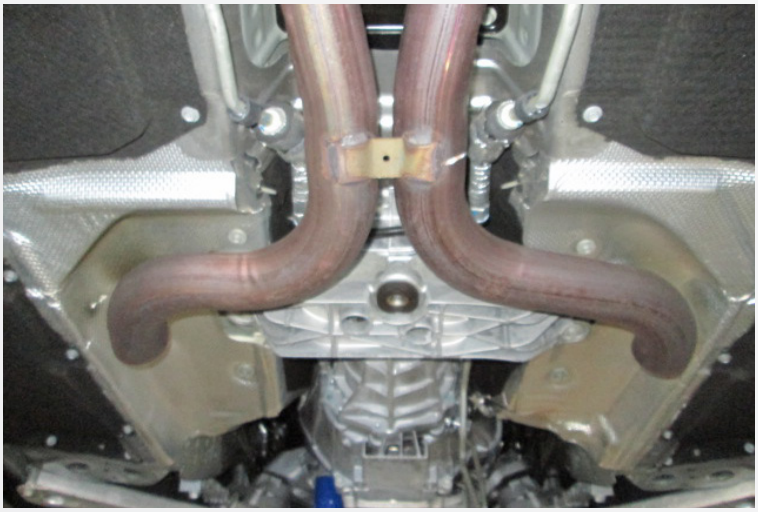




Remove the (4) bolts that hold the catted down pipe to the collector on the exhaust manifold do this for both driver and passenger sides. Support the exhaust system so that it does not fall down. Remove the (4) bolts from the exhaust cross member bracket and remove it from the vehicle. Release the exhaust system to let it drop down and rest on the chassis cross brace.

STEP 10





Remove the (2) bolts that hold the connect rod for the steering shaft. Once the (2) bolts are removed push the connecting rod towards the fire wall until the connecting rod releases from the rack and opinion end then you may slid the connecting rod towards the front of the vehicle to release it from the steering shaft and remove it from the vehicle.

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STEP 11



From underneath the vehicle take a measuring tape to use as a guide line to mark where the exhaust will be cut. Stick the end of the measuring tape into the hole in between the (2) transmission cross member bolts and hold it straight up and down and mark the exhaust pipe on the side of the tape measure that is closest to the front of the vehicle do this on the driver and passenger side of the exhaust. Using a saw's all cut the exhaust pipes where you had made the marks.

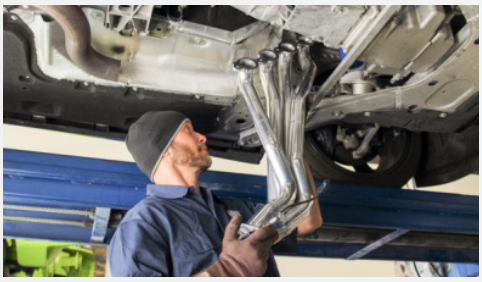
NOTE: you may need some help having someone hold the exhaust so that it does not bobble around. This is what the exhaust should look like once it is cut out. See fig 1-2.

STEP 12



Located on the passenger side of the engine bay is the radiator coolant bottle. Remove the 10mm nut that holds the bottle in place. Disconnect the (2) radiator hoses from the fire wall and plug the ends. Disconnect the push tab that holds a wiring harness to the radiator bottle the tab is located next to the over flow fill cap which is located next to the radiator bottle fill cap. Disconnect the push tab that holds the radiator hose and wiring to the bracket located next to the dipstick. Pull upwards on the radiator bottle and release it from the mounting points. Grab the radiator hoses and the radiator bottle and swing them towards the front of the vehicle to keep them out of the way.

STEP 13



On the passenger-side of the engine. Remove the bolt that holds the dipstick to the cylinder head . Remove all exhaust manifold bolts.

NOTE: the dip stick can only be removed with the exhaust manifold also same thing applies when installing it. With all the hardware removed lift the exhaust manifold upwards toward the hood of the car and remove it from the vehicle. On the driver side remove all the exhaust manifold bolts and lift the exhaust manifold upwards toward the hood of the car and remove it from the vehicle.

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STEP 14



Driver-side installation. From underneath the vehicle lift the BBK full length header into place re-use the stock exhaust gasket. Start (2) bolts to hold the header in place that are supplied in the kit. From underneath the hood of the vehicle start the rest of the bolts then tighten them down Torque the header bolts to 30ty FT pounds.

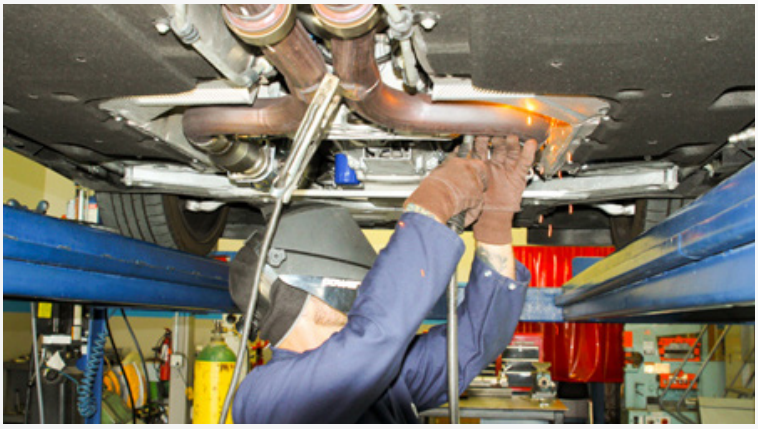
Take the 5” piece of heat wrap and slide it over the steering shaft coming out of the firewall re-install the steering shaft connecting rod and tighten down the bolts. Slide the heat wrap down on the steering shaft connecting rod so that it is covering the rubber isolator grommet that is on the shaft that comes out from the firewall.

Re-install the spark plug and spark plug wires on the driver side of the engine.

Re-install the coil cover and decorative cover on the driver side of the engine along with the valve cover vacuum line and the sound tubes rubber strap clamps to the strut tower support and A/C line re-connect the vacuum hose that is located under the A/C line.

At this time you can go ahead and re-install the air box and air tube connecting all of the hoses and mass air flow meter’s wiring harness.

STEP 15



Passenger side header installation. Route the dipstick through the header. From underneath the hood of the vehicle install the BBK full length header down into the body between the engine and frame rail. Using the stock exhaust gasket start (2) of the bolts supplied in the kit to hold the header in place. Potion the dipstick in place and push it into the hole on the side of the engine that it came out of and press it into place. Install the rest of the bolts supplied in the kit for the header and Torque them down to 30ty FT pounds.

Take the 12” piece of heat wrap and cut in half wrapping it around the engine harness using supplied wire-ties that lays across the top off the frame rail on the passenger side.

Re-install the bolt the holds the dipstick to the cylinder head re-install all of the spark plugs and spark plug wires also install the coil cover and engine decorative cover back onto the engine.

Re-connect the radiator hoses and put the radiator bottle back into place and secure it with the 10mm nut, push the wiring hold clip back into the radiator bottle.

NOTE: Be sure to check coolant levels after start up and top off if any coolant was lost. Using zip ties make sure to pull the radiator hoses as close to the radiator bottle and secure them there so they are furthest away from the header. “Caution” do not secure radiator hoses so tight that they get pinch or obstruct coolant flow.

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STEP 16

Head pipe adapter installation there is a driver and passenger side head pipe. The driver side head pipe is the longer of the (2). Install the supplied hardware studs into the flanges on the BBK full length headers. Slide the end of the head pipe over the stock exhaust pipe where it was cut off in (step 11.) 0nce in place rotate the head pipe so that the oxygen sensor bung is facing towards the center of the car. Repeat this step for the passenger side.

STEP 17

With both head pipes in place lift the exhaust system upwards and connect the head pipes to the collector on the headers only snug the bolts up. Be sure to level out the exhaust and adjust it to have clearance. Push the exhaust system forward as much as possible while still having clearance everywhere. Tack weld the BBK head pipes to the stock exhaust once tacked into place check for any clearance issues and address them immediately. Now weld the lower portion of the head pipes to the stock exhaust completely once both sides are done unbolt the exhaust from the headers and drop it down and finish welding the head pipes to the stock exhaust system.

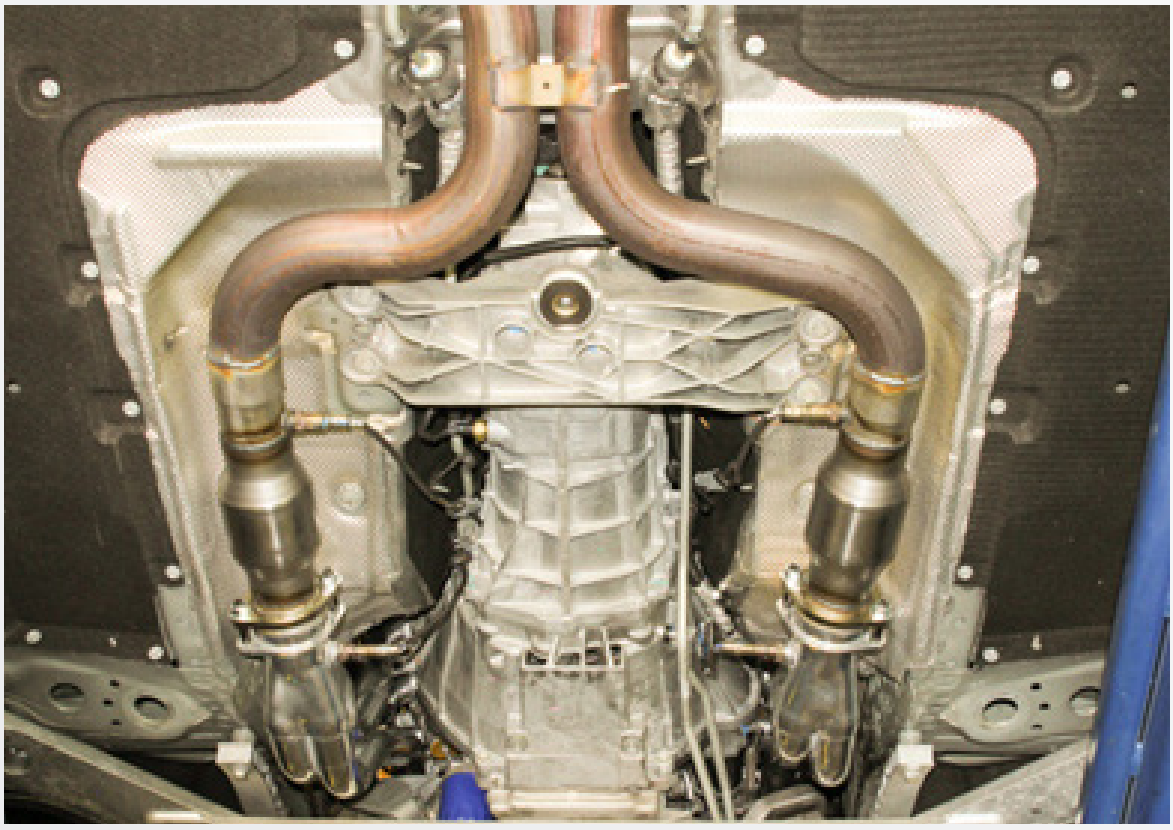
Lift exhaust system into place and tighten down the flanges on the head pipes to the flanges on the header collectors these bolts do not have to be crazy tight as it may result in bending of the flanges.

STEP 18

Install all (4) oxygen sensors and connect the wiring harnesses.

Reconnect the negative battery terminal and enjoy the sound and power of the BBK full length headers “REMINDER” check coolant levels after start up and engine is at operating temperature if any coolant was lost.

After 500 miles of driving re-torque all exhaust hardware to ensure the exhaust system is properly sealed.



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