

Dynatech[®]

Competition Exhaust Systems

INSTALLATION INSTRUCTIONS

LIT-1018, REV 6



CAMARO SS / Z-28 / ZL1

STAINLESS STEEL HEADERS

Note: We do our best to ensure the instructions in the box are the latest version. However in some cases where the system does not change for a new model year, inventory on the shelf may not have the latest version of the instruction manual. If you do not see your model or application listed above, please feel free to contact us at 800-848-5850 or sales@dynatechheaders.com for an updated instruction manual. We assure you the parts in the box are correct. The instructions may have added notes for a specific model year update.

'10 - '15
6.2 LITER ENGINE

PART NUMBERS

715-74010, 715-74110
715-73920, 715-74125
715-74220, 715-74020
715-74030, 715-73930
715-74230, 715-74330

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These products are intended for racing and off-road applications. Not legal for sale or use in the state of California, nor in states which have adopted California emission standards.

Installation Instructions

Congratulations on your purchase of the Dynatech exhaust system for the Chevy Camaro. This system is second to none in quality, performance, and ease of installation. Please read and understand each of the steps involved with the removal of your old system and the installation of your new header system prior to getting started. While slight variations in either the header or the vehicle may cause minor differences in the exact order of steps or the exact positions of components listed in this document, the following narrative and pictorial information should guide you during the removal and installation process to a completely satisfactory install of your new header system.

Dynatech highly recommends hiring a professional installer, one that is familiar with the installation of off-road exhaust products. Headers are designed to increase the performance of your vehicle, and as such are designed differently than your stock exhaust system. Extra care must be taken to ensure that hoses, cables, electrical lines, fuel lines, hydraulic lines, or any other objects are not in contact with, or located too close to your installed system. (Nothing should be allowed to touch or be located close to the header/exhaust system.)

Dynatech will repair or replace any products found upon our inspection to be defective in workmanship or material within 12 months from date of purchase for the original purchaser.

The Dynatech Team takes pride in providing the utmost in quality and performance. Should you have a concern about the product you receive, please contact Dynatech Customer Service at dynatechcs@dynatechheaders.com.

Dynatech is not responsible for any exhaust product that has been improperly installed, crashed, welded to, or modified in any way. Dynatech does not cover damage to any related components. Neither the seller nor Dynatech will be responsible or liable for any loss, damage, or injury resulting from the direct or indirect use of this product or inability by the purchaser to determine proper use or application of this product.

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What's in your new header kit?

Your exhaust system should contain all of the following parts. Please inventory each part prior to proceeding with the installation.

Header Parts Inventory List:

- 1 ea. Left (driver side) Header
- 1 ea. Right (passenger side) Header
- 1 ea. Header Gasket Kit
 - 2 ea. OEM Style Stainless Steel Header Gaskets
 - 12 ea. 8mm Header Bolts
- 2 ea. Front O2
- 4 ea. Cable Ties
- 1 ea. Install Manual

Intermediate Section Parts Inventory List:

- 2 ea. PowerCATs - Hi-Flow Catalytic Converters
- 1 ea. Donut Gasket Skin Card
 - 2 ea. 3" Graphite Donut Gaskets
 - 8 ea. 5/16" x 18 x 1 3/4" Hex Head Bolts
 - 8 ea. 5/16" x 18 Top Lock Hex Nuts
- 1 ea. Install Manual



Safety Notes:

For your safety, please allow the engine to cool for a minimum of 90 minutes before starting the removal of your current exhaust manifolds/system and beginning the installation process.

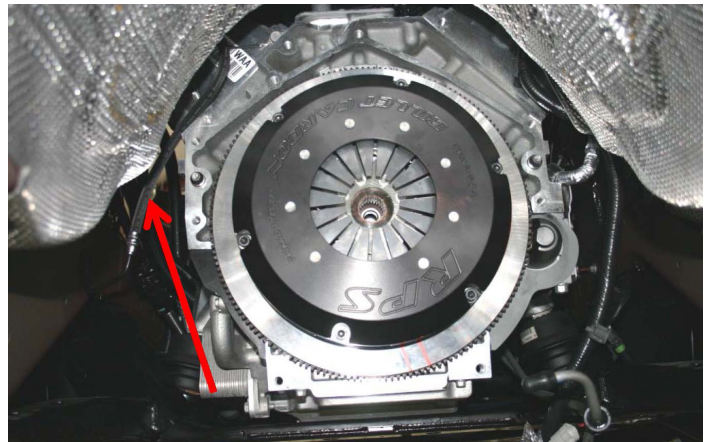
The use of safety goggles is strongly recommended, as debris may be dislodged from beneath your vehicle while removing or installing parts.

While not required, the use of cotton gloves is recommended to protect not only your hands from sharp objects under the hood and chassis of your vehicle but also keeps the oils and grease off the header's surface possibly preventing permanent stains on the headers themselves.

WARNING

It may be necessary on vehicles with the variable valve timing option that it is turned off or unhooked after installing the headers.

If your vehicle is equipped with a manual transmission special precaution may need to be taken to ensure that the clutch line is relocated or properly wire tied away from touching or being close to any part of the header.



Required and Optional Tools:

Miscellaneous hand tools are required for proper installation of these headers. We have listed a few of the required and optional tools to help with your installation.

- 7/8" open end wrench or O2 Sensor Socket.
- Assorted metric sockets and wrenches (8mm – 16mm)
- Ratchet and extensions
- Torque wrench
- Rubber Mallet or Dead Blow Hammer
- Floor jack and safety stands or a hydraulic lift
- Safety glasses or goggles
- Small bottle of Anti-seize Penetrating Fluid (optional)
- Cotton Gloves (optional)

Before You Get Started:

- Take inventory of all the parts in your new system. Make sure each piece is accounted for prior to taking your vehicle out of service.
- Look at the tool and supply list to make sure you have all the needed tools and supplies.

Stock System Removal:

Please read the following instructions carefully. Following the instructions carefully will make the removal and installation easier, more organized, and will hopefully result in a professional quality install. Place the vehicle up on jack stands or a hydraulic lift to provide access to the bottom of the vehicle. You should plan to get the bottom of the vehicle at least 2 feet off the ground to allow for the insertion of the headers from below. Once the vehicle is secure remove the front tires.

- For safety and to protect your vehicle's electrical system, remove the ground cable from the negative battery terminal. The battery compartment located in the trunk on the Camaro and is shown in the pictures below. The battery can be located by lifting up the carpeted trunk floor cover. You then will then see a plastic cover and plastic nut, remove these to expose the battery.

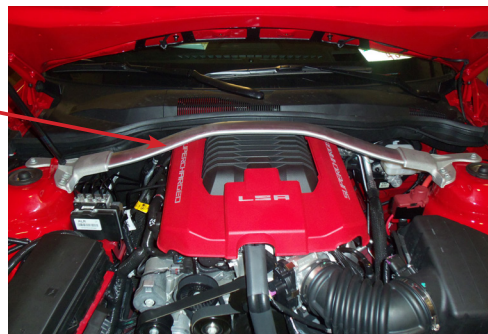


Under the Hood:

- Remove the engine cover.
- On ZL1 models remove the strut tower brace, this will allow additional room for the installation.
- Remove the spark plug wires from both the coil pack and the spark plugs. (Do not pull on the wires, pull on the boots.)
- Remove the spark plugs from both engine banks. Be careful not to crack the insulators during removal.
- Loosen the bolt holding the oil dip stick tube bracket to the right (passenger) side head and remove dip stick



REMOVE





- Unplug the front O2 sensors at this time.

Under the Vehicle:

Note: Proper operation of the O2 sensors is crucial for peak performance and good air-fuel ratio. Please handle with care and keep hands clean to prevent contaminating the sensor surface. All sensors should be considered as delicate instruments and should be handled accordingly.

- On ZL1 models, remove the belly pan.



- Remove the rear O2 sensors from the stock exhaust system. Be careful not to ruin the threads during removal. Threads have been known to gall during removal. If this occurs, your only choice is to replace it or them with new ones. As each sensor is removed, mark it accordingly so that it may be replaced in the same location during reassembly.





- Support the exhaust with some type of support and remove the center brace under the exhaust. This will allow the exhaust to move down more to help with the removal of the stock manifolds and installation of the new PowerCATs.
- After removing the rear O2 sensors, loosen the nuts on the clamps that connect the cats to the factory x-pipe. Use penetrating fluid to help with the removal of the nuts if necessary. Slide the passenger side clamp towards the rear of the car and the drivers side clamp towards the front of the car to separate the back half from the front half of the exhaust
- Remove the manifolds at this time. Once removed, remove the front O2 sensors. Be careful not to ruin the threads during removal. Threads have been known to gall during removal. If this occurs, your only choice is to replace it or them with new ones. As each sensor is removed, mark it accordingly so that it may be replaced in the same location during reassembly.



This completes the stock system removal process. Survey the area for stray rags, tools, nuts and bolts, etc. prior to proceeding to “Installing Your New Dynatech Header System”.

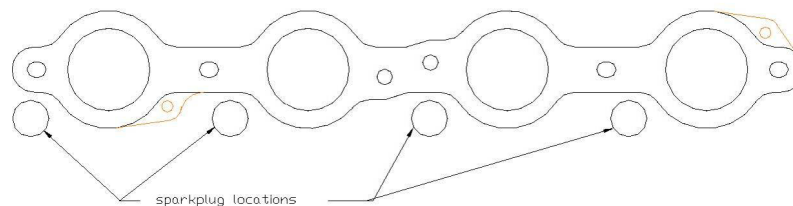
Installing Your New Dynatech Header System:

NOTE: Some models may have a dust boot covering the steering joint on the steering shaft. This boot must be removed for header clearance prior to header installation.

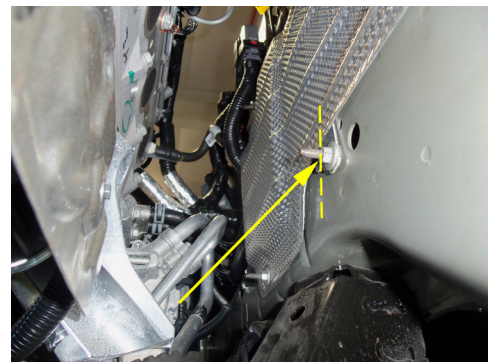


DYNATECH / SUPERMAXX LS-X GASKET INSTRUCTION

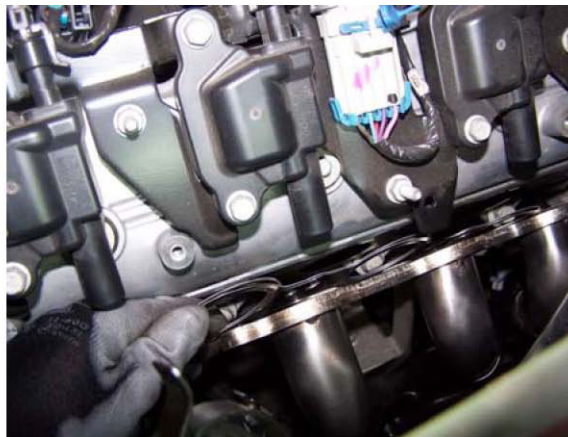
This diagram shows the rivet location for the LS-X Chevrolet gasket. The view is looking from the outside toward the actual head. The rivet locations are such to avoid clearance problems with the sparkplugs.



- Install 1 ea. of the O2 sensor extensions (front) provided on each side of the engine before beginning the header installation. This gives you adequate room to ensure the clips are connected properly. Make sure to route the wires away from all potentially hot surfaces.
- Next begin the installation of your new system by orienting the OEM style gasket as show above. This prevents gasket-to-spark plug boot interference. Place a small amount of anti-seize on each of the six (6) header bolts provided.
- Please pay special attention to the lower passenger side heat shield area of your car. If your model has the second stud installed, (see picture) you will need to trim it off as shown in the picture to allow for clearance needed for the right side header.



- Install the left and right side header from the underside of the vehicle. Start each bolt by hand to help prevent cross threading. After all bolts in the left side header have been started, tighten each bolt and torque to approximately 20 ft/lbs.



- Begin the installation of the rear portion of the system by slipping the 3.0" donut gaskets over the ends of both collectors. Install front O2 sensor extensions.



- Lower the front of exhaust down to allow room to install PowerCATs. Once lowered install PowerCATs into factory band clamp and snug nuts but do not fully tighten. Retrieve four (4) hex head bolts and top-lock hex nuts from the skin card pack. Put a small amount of anti-seize on each of the bolts. Raise the exhaust and PowerCATs up to the mating surface of the collector and converter of both headers and start the nut and bolts through observing the marks previously made on the sensors, reinstall each sensor in the appropriate position. A small amount of anti-seize on the threads only will help prevent galling of the threads during removal or installation.



- Reinstall center brace.
- Align PowerCATs from top to bottom and side to side keeping clearance between exhaust and center brace. Fully tighten the factory band clamps.
- Before proceeding to the O2 sensor installation, recheck all the clearance issues and the bolt and clamp tightness.



Note: Proper operation of the O2 sensors is crucial for performance and good air-fuel ratio. Please handle with care and keep hands free from contaminating the sensor surface. All sensors should be considered as delicate instruments and should be handled accordingly.

- Observing the marks previously made on the sensors, reinstall each sensor in the appropriate position. A small amount of anti-seize on the threads only will help prevent galling of the threads during removal and installation.
- After installing and tightening each of the system's O2 sensors (4), reconnect each of the connections at the main wiring harness.
- Before moving back to the top of the engine, wire tie and inspect each of the O2 sensor wires to make sure they are up out of the way from possible heat damage or moving parts.

- Recheck all the clamps and joints for tightness and that the clearances have been maintained.
- On ZL1 models reinstall the belly pan.
- Install the spark plugs on both the left and right banks of the engine.
- Make sure the oil dip stick tube is clean, apply a small amount of engine oil to the dip stick o-ring. Slip the tube down between the header tubes and into the hole in the block. Reinstall the bolt attaching the dip stick tube bracket to head and tighten, then reinstall the dip stick in the tube. It may be required to slightly bend the dip stick tube bracket to line back up to original mounting position due to the size difference between the header and the stock manifold.
- Install the spark plug wires to both the spark plugs and the coil packs on both engine banks.
- Reinstall the engine cover.
- On ZL1 models reinstall the strut tower brace.
- Survey the entire engine bay for oil leaks loose wires/hoses, stray rags or tools, etc.
- Return to the rear of the vehicle to reconnect the negative battery cable and replace the cover.

*** Note: If you are also installing an aftermarket cat back system along with your Dynatech headers, we recommend to snug the cat back system up but to not fully tighten. Place a 5/8" spacer between the exhaust tip and fascia/ bumper and then fully tighten the back half system. Remove the spacer. This will give you 5/8" of clearance on your exhaust tips keeping them from coming in contact with the fascia/ bumper during normal driving conditions.**

Finishing up the installation:

Final Checks:

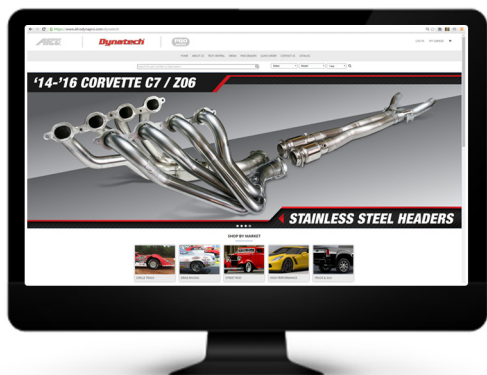
- Start the engine. Observe the "Check Engine Light".

Note: In some instances you may experience a check engine light after the installation of an aftermarket exhaust system. If this occurs please contact Dynatech at 1-800-848-5850 and ask for customer service or e-mail dynatechcs@dynatechheaders.com.

- Listen for any exhaust leak "ticking" sounds. Check around each clamp and gasketed joint for leaks. If any are found, check to see that the gasket is properly installed and the joint or clamp is tightened properly.

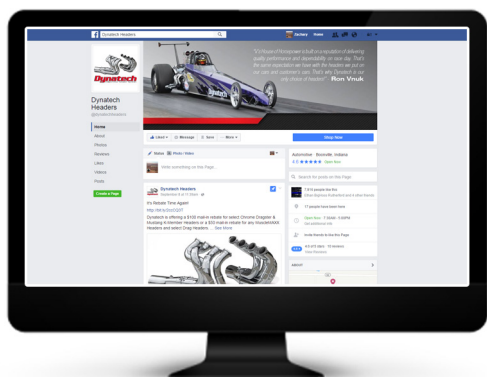
This completes the installation of your system. Go back over all the connections to check tightness, tube clearances, and brackets before starting the vehicle. Once you are satisfied that the system is correctly aligned and tightened, start the engine and check for leaks. If any are found, retighten the fasteners around the clamp at issue. All fasteners should be rechecked after the system has gone through several thermal cycles.

We make every effort to build our products to the highest standards of workmanship and materials possible. This also applies to our documentation. If you find points in our instruction manual that you feel need to be clarified or changed, please e-mail us your comments at dynatechcs@dynatechheaders.com. We will use them to enhance our documentation.



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