

Dynatech[®]

Competition Exhaust Systems

INSTALLATION INSTRUCTIONS

LIT-1006, REV 8



CHEVY / GMC 1500

STAINLESS STEEL HEADERS

'07 - '19

4.8, 5.8, 6.0, 6.2 L ENGINES

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.

PART NUMBERS

715-14110, 715-14120, 715-14130,
715-14110, 715-14220, 715-14230,
715-14420, 715-14430, 715-34110,
715-44110, 715-34120, 715-34130,
715-14110, 715-14620, 715-14630,
715-34410, 715-44110, 715-44120,
715-44130

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Installation Instructions

Congratulations on your purchase of the Dynatech Chevy Truck header system. 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 kit. While slight variations in either the header or the vehicle may cause minor differences in the exact order of steps listed in this document, the following narrative and pictorial information should guide you during the removal and installation process leading 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 competition exhaust products are not covered under any warranty either expressed or implied.

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. Dynatech competition exhaust products are built for off-highway use only and are not intended for use on street legal, pollution controlled vehicles.

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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 Header
- 1 ea. Right Header
- 1 ea. Header Gasket /Bolts Skin Card
 - 2 ea. Multi-Layer Stainless Gaskets
 - 12 ea. 8 mm Header Bolts
- Steering Shaft Bolt and Nut
- Install Literature

Mid Section Parts Inventory List:

- 1 ea. Catalytic Converter w/Cross-over Tube Assembly. (left side)
- 1 ea. Catalytic Converter (right side)
- 1 ea. "Y"-Pipe Assembly
- 1 ea. "Y"- Pipe Extension (2009 and up models)
- 1 ea. (2014-17) O2 Sensor Extension
- 1 ea. 2 ½" Stainless Steel Band Clamps
- 1 ea. 2 ½" Stainless Steel Single Bolt Band Clamp
- 1 ea. Donut Gasket Skin Card
 - 2 ea. Donut Gaskets
 - 6 ea. 10 mm Hex Head Bolts
 - 8 ea. 10 mm Serrated Flange Nuts
 - 6 ea. Anti-Crush Spacers
- 2 ea. Cable Ties
- Install Literature

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.

- Small standard screwdriver
- 7/8" open end wrench or O2 sensor wrench
- Assorted metric wrenches (8mm – 21mm)
- Ratchet & extension
- Assorted metric sockets (8mm – 21mm)
- Optional: ratchet box end wrenches 10mm,13mm (these make certain operations easier)
- 5/8" spark plug socket
- Torque wrench
- Your Chevy factory supplied lug nut wrench (stock wheels)
- Floor Jack and stands or hydraulic lift
- Safety glasses or goggles
- Small amount of Anti-seize

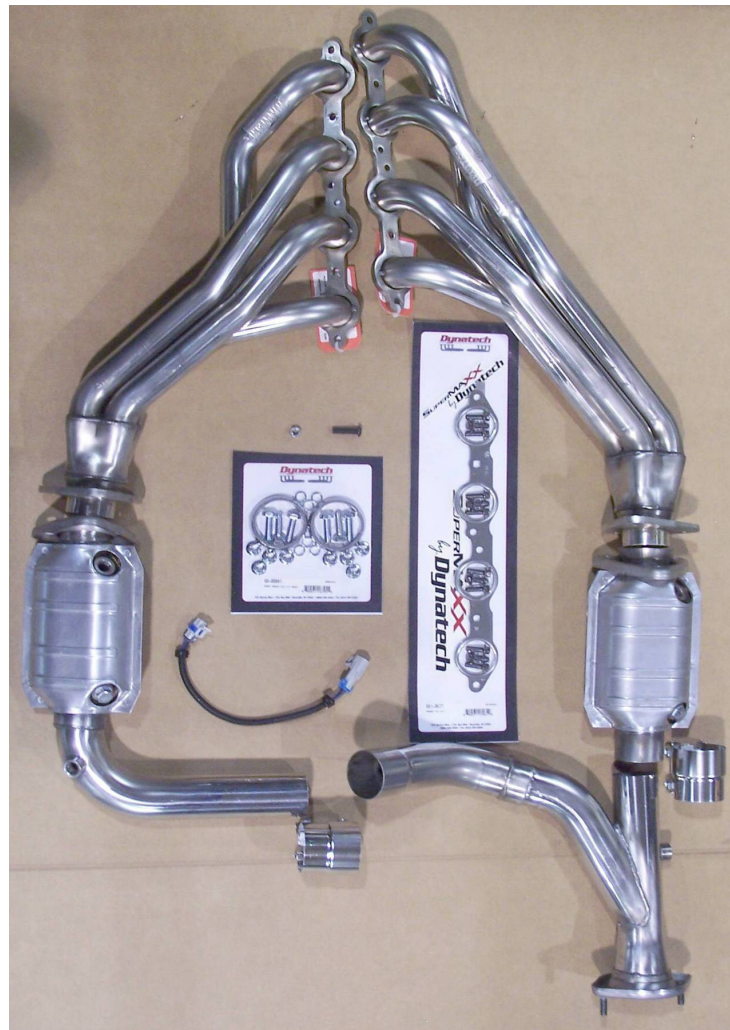
Safety Notes:

Please allow engine to cool for a minimum of 90 minutes before starting installation.

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

Although the use of cotton gloves is not considered a “must do”, their use is recommended to keep the oils and grease from the surface to prevent the permanent staining of the headers and also protect your hands from sharp objects under your vehicle during the removal of your old system and the installation of your new kit.

2007-2008 System Shown



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.

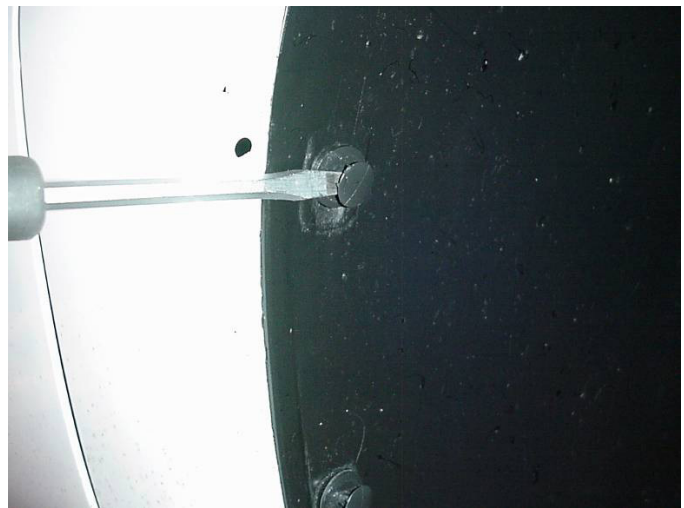
Old System Removal:

- 1) Remove negative terminal battery cable.
- 2) Loosen the lug nuts on both front wheels, but do not remove.
- 3) Open the hood and remove the wire loom holders from both wheel well covers.



Pull barbed wire loom out of plastic inner fender panel. These need to be removed from both driver and passenger sides!

- 4) Raise the vehicle using a floor jack (you must use jack stands to support vehicle while working under vehicle) or hydraulic car lift.
- 5) Remove both front wheels after vehicle is raised and secured.
- 6) Remove wheel inner fender panels from both sides by removing quick release plastic retainers and hex head sheet metal screws. Mark them if necessary so that they are replaced in the same position during re-assembly.

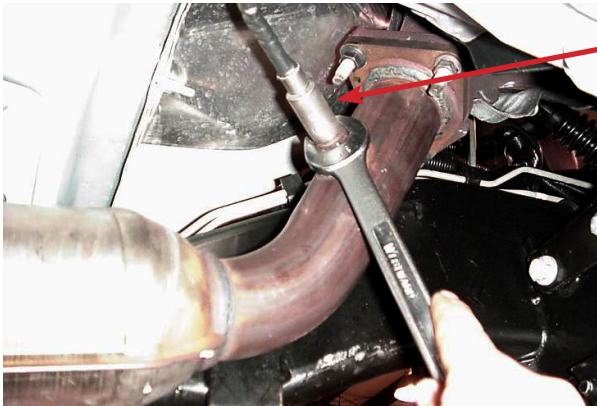


Use small screwdriver to gently pry the center up and remove inner and outer assembly.

- 7) Remove spark plug wires on both sides from spark plugs and coil packs.
- 8) Remove bolt from oil dip stick bracket and pull upward gently to remove oil dip stick tube. Use caution not to damage "o"-ring seated at the bottom of the oil dip stick tube. Temporarily cover dip stick tube hole.

Note: Proper operation of the forward O2 sensors is crucial for peak 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.

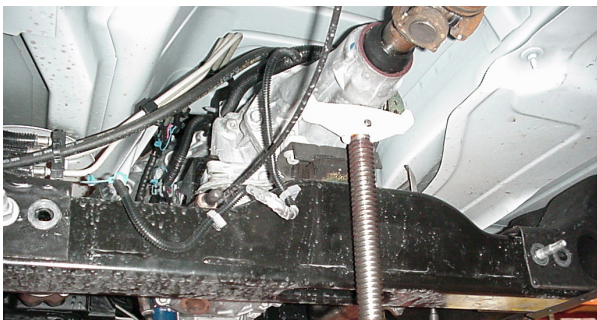
- 9) Remove all exhaust (4) O2 sensors from factory "Y"-Pipe. These are located one in each side of the "Y"-pipe before and after the catalytic converters.



Remove dip stick tube retaining bolt, using care not to damage the "O" ring on the dip stick tube.



Use care in removing all four O2 sensors. Handle the sensor ends with care, keeping free from oil and dirt.



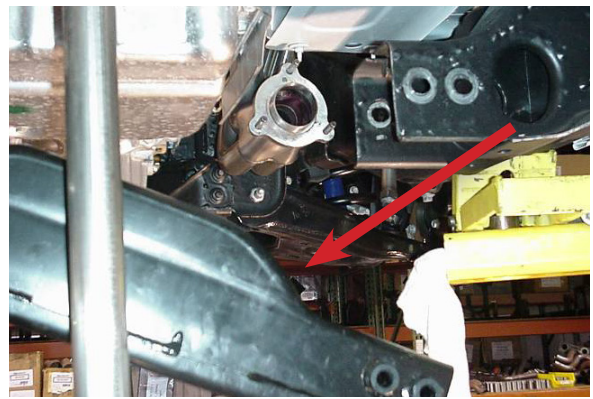
- 10) Remove center cross member bolt. The transmission **MUST** be temporarily lifted & braced after the nut is removed.

11) Remove the two passenger side cross member bolts, one driver's side (the center most), and loosen the other. This will allow you to swing down the cross member enough to remove the factory Y-pipe.



Here is the cross member lowered for removal and install.

Because the factory Y-pipe is one piece, the cross member has to be lowered to remove the stock Y-pipe. Installation of the new Y-pipe also need the cross member lowered.



12) Remove all the 6 exhaust manifold nuts Holding the Y-pipe to the cast manifolds, and the nuts (2) at the rear of the Y-pipe. The "Y" assembly is now ready to remove.



- 13) Remove the complete Y-pipe assembly from the vehicle.
- 14) Remove exhaust manifold bolts from passenger and driver side of vehicle through the wheel well area. The manifold on driver side will exit from the under side of the vehicle. The passenger manifold can be removed through the wheel well. (Either remove the spark plugs prior to removing the manifolds or use extreme caution to prevent damaging the spark plugs.)
- 15) **The factory exhaust system should now be completely removed from the vehicle. Please check your progress to ensure all steps have been completed before proceeding to the installation of the Dynatech Exhaust System.**



Use caution when last manifold bolt is removed as not to drop manifold.

Installing Your New System:

- 16) We suggest you raise the cross member, and slip-in one bolt to secure while continuing installation.
- 17) Install the supplied O2 sensor extension for the right (passenger side) front and rear O2 sensor wiring. Slip the connectors together and route the extension cable up and over the right frame rail. Tie this cable up, out of the way with tie-wraps.
- 18) At this time replace the steering column shaft bolt and nut with the new nut and bolt supplied with the kit. Replacing this bolt and nut provides an extra margin of clearance between it and the header especially when installing on a 2WD vehicle. Not needed for 2014-17.

CAUTION: Failure to perform these additional steps may in certain cases cause the steering to jam resulting in the loss of control of your vehicle.



- Remove the bolt and nut from the steering shaft.
- Reinstall the new bolt and nut through the steering shaft and tighten securely. Use of some sort of thread locker. Loc-tite is recommended.

19) Install new header from bottom of vehicle using care to keep gasket in place. Use a small amount of anti-seize on each bolt making sure to start them by hand to prevent cross-threading. When installing header on driver's side, the header bolt closest to the firewall may have to be installed from the under side of the vehicle. Then install remainder of header bolts through wheel well and tighten to approximately 18-20 ft/lb torque.



20) After installing both headers and all header bolts, brace transmission in the same manner as done in removal of stock "Y" -pipe.

Do not lower cross member until transmission is supported.



21) It may be necessary to trim the shield bolted to the passenger side of the transmission for y-pipe clearance.



Trim shield here and re-install.

22) Install both sintered metal donut gaskets to header collector outlets.



Install sintered donut gaskets before Y-pipe.



Install one spacer per stud to ensure proper connection with Y-pipe. (Both headers)

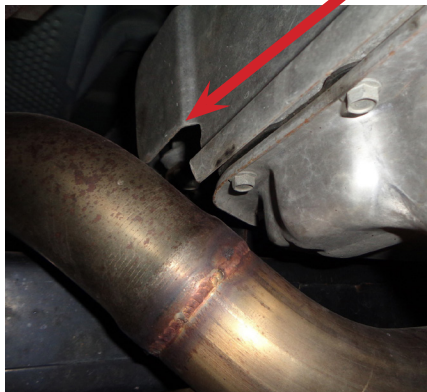
Make sure no anti-seize or other contaminate gets on the sensor's sensing surface. Always use sensor safe anti-seize to keep from contaminating your expensive sensors.

24) GM 1500 "Wedge" process for the Y-Pipe

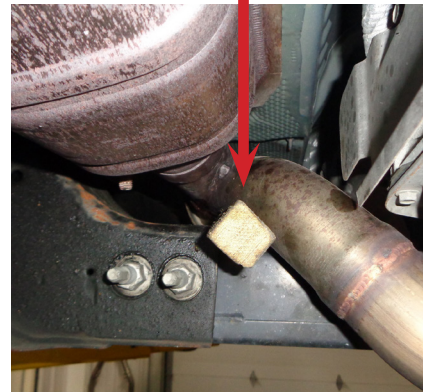
- Install headers and tighten to spec.
- Loosely install entire system, including factory back-half (or aftermarket back-half). Slightly tighten (snug) the remaining bolts on the crossover pipe, clamps, 3-bolt flanges, and extension tube flange. You want all the bolts tight enough that all the parts won't move under their own weight but you can still move the parts with hand-force.



This gets trimmed per our instructions.



Wood wedge.



- Install a wood-wedge as shown in the photo. Force this wedge into position until the y-pipe is sitting 1/4" to 3/8" beyond where it needs to rest after the install is completed. Leave this wedge in for the remainder of the install.
- Tighten the driver's side 3-bolt catalyst flange fully-tight to spec.
- Tighten the passenger side 3-bolt catalyst flange fully-tight to spec.
- Tighten the crossover pipe band clamp (the one in front of the cross-member) fully-tight to spec.
- Tighten the y-yipe to passenger catalyst clamp fully-tight to spec (the one directly on top of the pass side of the cross-member).
- Tighten the extension tube and exhaust bolts fully-tight to spec.
- Remove the wood wedge.
- Test drive truck.
- Re-check system to see if it has sagged. Re-adjust as necessary.
- When everything is in the right place the passenger side of the crossover tube should be parallel to the transmission crossmember.



Force Y-pipe 1/4" to 3/8" beyond where it needs to be after install.

Use the single bolt band clamp to connect the catalytic converter to the "Y-Pipe".

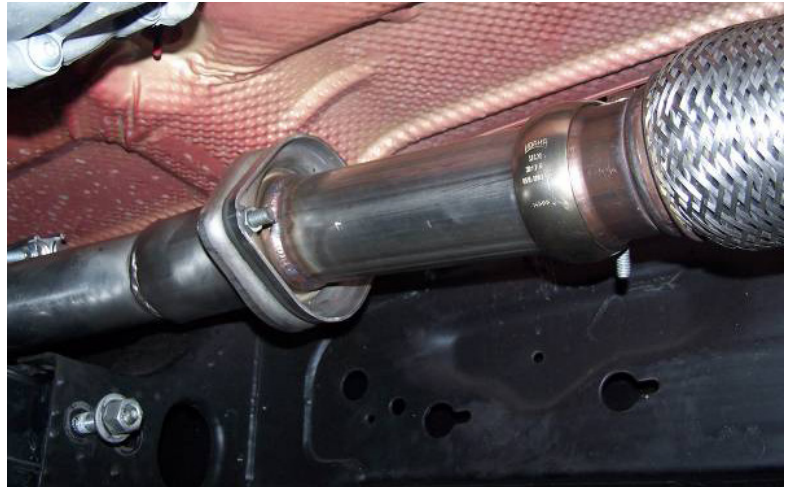


- 25) Install all O2 sensors in cats & y-pipe at this time. Start cat installation and Y-pipe with passenger side. Attach catalytic converter loosely with 3 flanged nuts. Slip band clamp over pipe and install Y-pipe between cat and muffler.

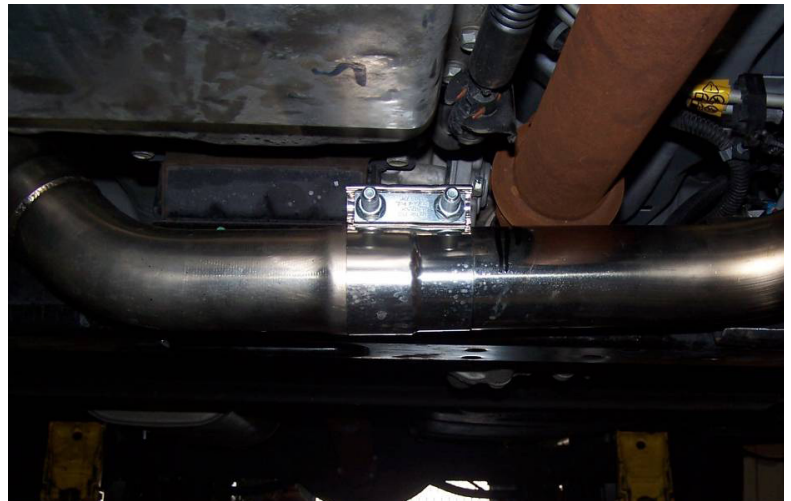
Stock cat-back section must be gently pushed back to accept new Y-pipe.



Note: When installing the system on 2009 and up models install the provided y-pipe extension at this time. 2011 and up models with the 6.2 engine option have a 3-1/2 diameter extension pipe provided.



- 26) Driver's side catalytic converter & pipe can now be slipped into right hand pipe and attached to header collector with 3 flanged nuts. Make sure band clamp is installed over pipe before slipping left and right of "Y" together.
- 27) Raise cross member and lower transmission to install and tighten bolts.
- 28) After ensuring all clamps and fasteners are installed, check clearance and align properly before tightening. Tighten down header collector nuts tight against spacers.



- 29) Reinstall any spark plugs that were removed and connect the wires to both the spark plugs and the coil packs.
- 30) Reinstall oil dip stick tube and brace.
- 31) Install wheel well covers using the stock pop-top quick connectors.



Install quick release tabs in same fashion in which they were removed.



32) Check all exhaust connections and all frame parts at all locations before lowering vehicle.

33) Install both front wheels and tighten all lug nuts to factory specifications.

34) Lower the vehicle.

35) Install plastic wire loom holders to inner fender panels under hood area.



36) Connect negative battery terminal.

37) Installation should now be complete, start engine and check for exhaust leaks, tighten as necessary.

Final Checks:

- Check your work. No wiring, fluid lines, sensors, steering components, etc should come in contact with any part of the header or with any area that may cause heat damage or mechanical damage.
- Start the engine. Observe the “Check Engine Light”.

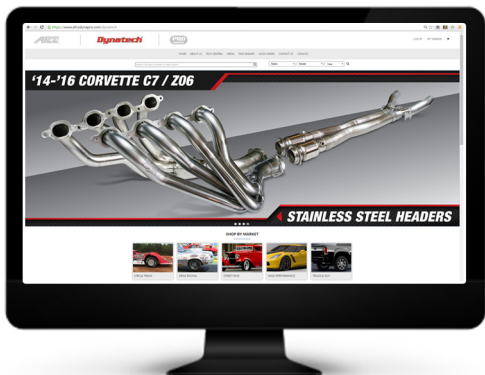
Note: In some instances you may experience a check engine light after the installation of an aftermarket exhaust system. If this occurs please contact Dynatech at 1-800-848-5850 and ask for customer service or e-mail dynatechcs@dynatechheaders.com.

- 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.
- Verify that steering shaft and its bolt modification does not come in contact with or bind against the header as the steering wheel is turned to full lock to both the left and the right.

All bolts and connections should be retightened as necessary after the system has gone through several thermal cycles and as needed thereafter.

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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