

2014+ C7 CORVETTE

HEADER INSTALLATION INSTRUCTIONS

Thanks for purchasing a Stainless Works Header system for your 2014+ C7 Corvette. Our team has worked to ensure that this product is the premium in performance, quality, and fitment. We are proud to say that this system will unleash the true character of your vehicle. We encourage you to read through the following steps, and check the included Bill of Materials before beginning. Please follow these steps to ensure that your installation goes as planned.



2014+ C7 Corvette
(C720R, C72CAT, C71880R, C7188CAT,
C7175STP0R, C7175STP0R)

a.

Stainless Works recommends the use of Hi-Temp RTV sensor safe silicon gasket maker as an option or in conjunction with the use of factory gaskets. The recommended Oxygen Sensor Safe RTV is either Valco All-in-One Aluminum or Permatex Copper P/N 101BR available at NAPA, Autozone and other retailers.

b.

Disconnect the battery before starting to work on the exhaust system for your vehicle. Reconnect the battery when the job is completed.

c.

Your exhaust system can be installed by a weekend warrior, but the use of a lift is recommended for ease of installation. If using a jack, the vehicle must be placed on a hard level surface. Jack stands are required for safety.

d.

You will assemble the components together as specified below, but only snug the clamps as you move along from front to back. After aligning all the components in the vehicle, you will tighten all the clamps working from front to back of the vehicle.



Detail a

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DISASSEMBLY

1.

Disconnect battery.

2.

Raise and support vehicle.

3.

Remove engine vent tubes on the Driver side from valve cover and Passenger side from valve cover and oil tank on fender.

4.

Remove engine covers Right and Left (labeled "Corvette") - they just push on/ pull off. These covers are not included on Z06 models.

5.

Remove fuse box lid (power distribution box).

6.

Remove 8mm nut and two power wires from box.

7.

Release Fuse box (move handles) and remove.

8.

Disconnect radiator overflow tube from overflow tank and fuse box mount.

9.

Unloom A/C hose from fuse box mount.

10.

Remove (3) 6mm nuts from fuse box mount then slide the 5 wire connectors out and remove mount.

11.

For non-Z06 cars, remove Right and Left coil covers, 4 Torx screws, 2 per side.

12.

Remove all spark plugs and wires.

13.

Mark and disconnect steering shaft - (1) 10 mm bolt.

14.

Remove (22) 10 mm bolts and (2) 12mm bolts and remove tunnel plate.

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15.
Loosen exhaust clamps and remove (4) 10mm nuts (2 per side) from 2 bolt flanges and remove center section of exhaust (slide out of hanger at rear).

16.
Drain engine oil and remove (2) 8mm bolts from oil lines and remove oil lines from oil pan.

17.
Remove Right and Left frame stiffeners (4) 12mm bolts (2 per side).

18.
Disconnect O2 sensors and remove.

19.
Remove (8) 10 mm nuts (4 per side) from catalytic converters to manifold flanges and let pipes hang. You will have to unbolt the manifolds below to remove these.

20.
Remove (2) 10mm bolts from starter and 8mm nut from starter wire. Disconnect wire connector and remove starter.

21.
Remove (10) 8 mm bolts (5 per side) from exhaust manifolds and remove manifolds.

22.
Remove both front and rear O2 connectors from clip at connectors and hook up extensions and re-route towards rear of car.

23.
Remove tunnel heat shield from vehicle by removing bolts and push clips.

24.
On the heat shield, measure about 1" to 1-1/4" forward from the holes where the (2) bolts were. Mark this position side to side and trim off that portion of heat shield for O2 sensor clearance.

25.
Again on the heat shield, measure back 10" from the bolts on both sides, then mark 4" apart and cut (2) 1" holes for the rear O2 wires to run through.



Detail 24



Detail 25

SW HEADER INSTALLATION

26.
Reinstall the tunnel heat shield into the vehicle.

27.
Install all O2 extensions at this time.

28.
Loosen (4) 15mm nuts, (2) per side, from the motor mounts and raise the motor slightly.

29.
Remove the starter wire from the clip holding it to the motor.

30.
Apply RTV sealant to passenger header and install from the bottom. Roll the bottom of the header toward the driver side to get it started. This also may require pushing the wiring harness at the rear of the motor out of the way a bit. **Do not tighten header bolts yet.**

31.
Install the O2 sensor in the header and connect wiring.

32.
Reinstall the starter and wires at this time.

33.
Apply RTV sealant to driver side header and install from the bottom. **Do not tighten header bolts yet.**

34.
Install O2 sensor and connect wiring.

35.
Reinstall all items removed in engine compartment.

36.
Install converters or cat deletes using (2) 3" clamps.

37.
Install O2 sensors in X-pipe.

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38.
Install X-pipe using (2) 3" clamps, place in rubber hanger and install (2) 2.75" clamps in axleback exhaust. See picture for hanger orientation.

39.
Connect O2 wires leading to X-pipe and secure wires.

40.
Reinstall tunnel skid plate.

41.
Lower vehicle and re-connect battery.

42.
Fill engine oil to OEM specs.

43.
Be sure to have adequate clearance around all wires, hoses and lines. **If anything is in contact with the exhaust system, it will melt.** Make sure to have at least 1/2" of clearance and wrap any suspect areas with DEI thermal barrier wrap.

44.
After double checking for clearance and making sure all lines, wires and hoses are secured, drive the car for 10-20 miles and re-check all clamps and clearances. Your system may be tack welded at the joints/ clamps to reduce shifting of the system during heating and cooling cycles. Make certain to disconnect the battery before performing any welding.



Detail 38