



INSTALLATION INSTRUCTIONS

MAKE: Chevrolet
MODEL: Camaro SS1
YEAR: 2016-2021
ENGINE: V8-6.2L

Tri-Y Long Tube Header & Mid Pipe

48-34143-YC (w/Cats)

NOTE: This system will require cutting OE exhaust system



Description	Part Number	Quantity
S/A Header, Right Side	05-145002	1
S/A Header, Left Side	05-145003	1
S/A Connection Pipe, Right Side	05-145004	1
S/A Connection Pipe, Left Side	05-145005	1
S/A Mid Pipe	05-145895	1
3" Clamp Band	05-41055	2
3" V-band Clamp	05-41588	2
Clamp Sleeve 2.75"	05-41759	2
O2 Extension	05-70002	3
Ties, Nylon Cable	05-601676	5
O2 Sensor Plug	05-46018	1
Gasket Set	05-46132	2
ThermoWrap Heat Tape	3.5" x 7.5"	1
ThermoWrap Heat Tape	4" x 6.5"	1
ThermoWrap Heat Tape	2" x 4"	1

aFe POWER recommends professional installation on this product. Thoroughly inspect the aFe POWER exhaust system to make sure there is no damage from shipping (if damage is noted, immediately contact aFe POWER customer service). Allow time for your vehicle to cool down prior to installation. When working on your vehicle proceed with caution. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation.

Install band clamps to proper torque specifications of 40-45 ft-lb.

1. **(Read Instructions prior to installation)** for faster removal and installation of exhaust a trained professional is recommended for this procedure. Secure vehicle with jack/stands.
2. Secure stock exhaust with jack/stands. The stock exhaust system will require cutting, therefore professional assistance and proper tube cutting tools are always recommended.
3. Disconnect negative battery terminal.
4. Remove (x5) bolts securing center cross brace to chassis. Set these parts aside for as they will be reused later.
5. Disconnect the left/right dual mode actuators off the wire harness on the OE exhaust system.
6. Remove (x2) left O2 sensors and (x2) right O2 sensors from the converter pipes/exhaust system.
7. Remove (x4) nuts securing the converter pipes to the transmission and remove the cross brace. Note: you will not be using this part when installing aFe power headers.
8. Loosen the (x4) nuts on the left side converter pipe securing it to the exhaust manifold.
9. Remove (x2) nuts securing the OEM mid-pipe to the right side post catalytic converter.
10. Remove (x4) nuts securing the left and right side rearmost aluminum hanger brackets off the vehicle. Remove OEM exhaust.
11. Remove the (x2) nuts on the right converter pipe to exhaust manifold and remove the right converter pipe.
12. Remove (x2) lines connected to the radiator surge tank and (x1) nut securing tank to engine bay. Then remove tank and set aside. **Note: Pinch off the lines from surge tank to prevent the coolant from spilling.**



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13. Remove the OEM intake air box.
14. Remove (x2) nuts securing A/C line to the chassis.
15. Remove the (x5) bolts securing the right/passenger exhaust manifold heat shield and remove from vehicle.
16. Remove (x1) torx head bolt securing engine oil dipstick and remove dipstick from vehicle.
17. Remove the right side (x4) spark plug wires off the coil packs and spark plugs, this will allow you to remove the exhaust manifold without damaging your spark plugs/wires.
18. Remove (x5) bolts securing right side exhaust manifold to the engine and remove exhaust manifold.
19. Use thermo wrap heat tape 2"x 4" and 4"x 5.5" provided with kit and wrap around wire harness on the right side frame rail under coolant tank. Now use (x1) zip tie to go over thermo tape. Refer to **figure 1**.
20. Install the right side aFe power header using (x5) bolts and (x1) manifold gasket supplied in the hardware kit. **Note: reinstall the dip stick tube while the header is loose**
21. Torque the header bolts, starting from the center working your way outward. First pass will be 11ft lbs. of torque, second pass will be 18ft lbs.
22. Reinstall the right side (x4) spark plugs and spark plug wires.
23. Use remaining thermo wrap heat tape 3.5" x 7.5" provided with kit and install over brake line up against the chassis. Refer to **figure 2**.
24. Reinstall radiator surge tank removed and top off coolant if necessary.
25. Remove (x5) bolts securing the left side exhaust manifold heat shield and remove from vehicle.
26. Remove the left side (x4) spark plug wires off the coil packs and spark plugs, this will allow you to remove the exhaust manifold without damaging your spark plugs/wires.
27. Remove (x5) bolts securing left side exhaust manifold to the engine and remove the exhaust manifold.
28. Install left side aFe power header using (x5) bolts and (x1) manifold gasket supplied in the hardware kit.
29. Reinstall the intake air box removed.
30. Reinstall the left side (x4) spark plugs and spark plug wires
31. Install (x2) nuts to securing A/C line to the chassis.
32. Install left side aFe power connector pipe using 1 of 2 supplied v-band clamps. Do not tighten all the way at this moment.
33. Install right side connector pipe using remaining v-band clamp. Do not tighten all the way at this moment.
34. Place supplied 3" band clamps over expanded notched mid pipe exits and slip over connector pipes left and right, an extra pair of hands or stand is recommended to help hold the mid pipe up in place. Do not tighten.
35. Use supplied (x2) 2 3/4" sleeve clamps and slip over reduced end of mid pipe.
36. You will need to cut the OE exhaust system as shown, refer to **Figure 3**. Cut the metal tie raps on the heat shield and remove the heat shield. Measure 3-3/4" from the bracket to the front of the exhaust system and cut.



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37. Reinstall the OE muffler using the original isolation mounts. Slide the OE muffler inside the 2-3/4" sleeve clamps. Do not tighten at this time.
38. Double check position of complete system from connector pipes to OEM muffler. Once aligned and you're satisfied, you may now tighten the V bands and band clamps.
39. Reinstall the center cross brace to chassis using (x5) original bolts.
40. Install primary O2 sensors into headers and plug into the supplied O2 extension leads. Use the supplied nylon cable ties to secure these away from the exhaust.
41. Connect right and left secondary O2 sensors, using the supplied O2 extension lead on the left O2 sensor.
42. With supplied zip ties, secure any wiring, cables away from exhaust system to avoid any damage due to heat.
43. Reconnect battery.
44. Start the vehicle and check for any leaks.
45. It is recommended to re-tighten all clamps and bolts after 50-100 miles.

