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67-76 A-body

## INSTALLATION INSTRUCTIONS

For Header part nos: **TTI340AW2-178**


**TTI340AW5-178** (Discontinued)


### TAKE TIME TO READ THE INSTALLATION PROCEDURES BEFORE STARTING

#### **WARNING !!!**

We strongly suggest that you use an old set of headers or a set of cast iron manifolds for first engine runs / cam break-ins to avoid coating damage. Excessive heat damage to the ceramic coating will **VOID** all warranties.

Header coating damage usually occurs during the first engine run when the exhaust temperatures exceed 1200°F. Excess exhaust temperatures are normally caused by excessively lean or excessively rich air/fuel mixtures and/or incorrect ignition timing.

 **Please take all under car safety precautions when** installing headers, including eye protection. When raising vehicle, use an appropriate lifting device and place on jack stands as a safety measure. Caution! Bumper jacks are intended for emergency use only and should not be used to support vehicle.

 **First check your Engine Location -** K-members are not all identical and the dimensions must be checked to ensure proper fit. Check your engine location prior to installation of your TTI Headers. TTI Headers were designed to fit with the engines located to the factory specifications. If the engine is not located correctly in the chassis, the headers will not fit properly. If necessary, place shims between the insulator assembly and the K-frame mounting pad to achieve the proper dimensions. Shim kits and engine mounts can be purchased from Schumacher Creative Services of Seattle, WA (206) 364-7151.




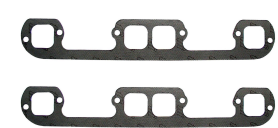
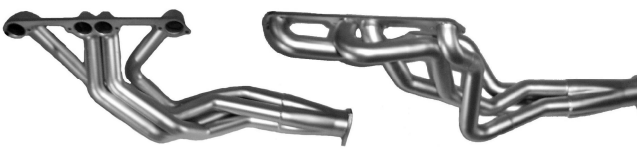
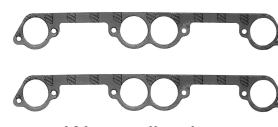
- **67-76 "A"-body applications:** From the center of the crankshaft to the top of the K-frame, the correct distance is 5-1/4+. The engine is also offset towards the passenger-side. Measure from the center of the crankshaft to each frame rail. The difference should be 2-1/2+.

1. Disconnect the negative cable from the battery terminal.
2. Raise the front of the vehicle with an appropriate lifting device and place on jack stands.
3. Disconnect the plug wires and remove all of the spark plugs. Remove the cast iron manifolds and the stock exhaust pipes. If you are installing the complete TTI Exhaust System, then remove and discard your entire stock exhaust system, including hangers.
4. Remove the oil filter and the starter. Passenger-side, remove and discard the brace between the engine and the transmission. Drivers-side, remove the lower mounting stud for the starter and replace it with a bolt.
5. Now is a good time to check the condition of your engine mounts. If they are worn or deteriorated, replace them now. When the engine is mounted correctly the headers will fit correctly.
6. Drivers-side Header: Use a pickle-fork to loosen the ball joint on the drag link at the pitman arm and the left tie rod. Remove the bolt from the idler arm swing this assembly aside. Remove the drivers-side engine mount bolt and raise the engine approximately 1½+. Use a block of wood between the oil pan and the floor jack.
  - On models with Automatic Transmission and Floor Shift, re-position the adjustable swivel and the lower rod attached to the torque shaft lever. Move them to the upper side of the torque shaft lever to clear the header collector. See the modified Torque Shaft Lever illustration on our sheet #3703.

- Check the cylinder head sealing surface of the exhaust ports to insure that they are clean. Place the supplied header gasket into position on the studs. Remove the #7 tube from the header. Insert the header into position from under the car. Before bolting to the cylinder head, slip the rear cylinder #7 tube in between the frame and the torsion bar into the slip-connector (lightly grease the inside of slip) of the header. Lower the engine and place the header into position on the cylinder head. Use the original studs and nuts or the provided headers bolts to secure the header to the cylinder head. Tighten the center bolts first then the end ports. Torque the bolts to 25 lbs. evenly to insure a proper seal.
  - Reinstall the steering linkage assembly by reversing the disassembly procedure. Be extremely careful to re-install all nuts, bolts and pins that were removed. Install motor mount bolt.
  - Install the starter and connect the wiring. Adjust the wiring to insure that there is absolutely no contact with the header. Due to variations in the routing of brake lines, it may be necessary to re-position a brake line to achieve adequate clearance from a header tube. A minimum clearance of ½+from a header tube is required.
7. Passenger-side Header: Check the sealing surface of the exhaust ports to insure they are clean. Place the supplied header gasket into position on the studs. Turn the steering wheel to the full left position. Insert the header into position from under the car. Use the original studs and nuts or the provided header bolts to secure the header to the cylinder head. Tighten the center bolts first then the end ports. Torque the bolts to 25 lbs. evenly to insure a proper seal. Install the oil filter.
  8. Attach the adapter / reducers to the header collectors with the nuts, bolts and gaskets provided. The adapter / reducers are 9+long and may need to be shortened for your application.
  9. Re-connect the negative battery cable.
  10. Now that your headers are installed, wipe down the tubes with hot soapy water or an environmentally safe Orange Cleaner Degreaser and a soft cloth to remove any grease or skin oils (finger prints) from the header tube surface. Never use abrasive cleaners.
    - It is normal for Chrome plated headers to discolor almost immediately after firing-up engine.
    - To insure years of service from your ceramic-coated headers it is suggested to follow our Header Maintenance & Care procedures.
  11. Start the engine and check for leaks.

 **Re-torque all of the header bolts after approximately 50 miles of driving**

To complete the rest of your exhaust system installation, we highly recommend the use of our TTI Performance Exhaust Systems. The 2-1/2+or 3+O.D. kits will bolt directly to the TTI Headers. Our exhaust systems come complete with all hardware and all new hanger assemblies. They are manufactured with aluminized tubing and are mandrel bent by the latest technology CNC tube benders insuring precision fit on every installation.

<p>1-7/8 Tubes / 3.5+Collectors</p> <p>Drivers-side Header: #7 Slip-Tube designed to be removed from the header for fitment around the torsion bar.</p>	 	<p>(12) Zinc Plated Header Bolts 5/16-18x1</p> <p>Header Reducer / Adapter kit          (2) 9+long aluminized tubes with welded 3-bolt 3/8+thick flanges.          (2) 3-bolt 1/16+thick gaskets.          (6) 3/8-16x1.25 zinc plated HH bolts grade 2, nuts &amp; washers.</p>
<p>W2</p> 	 <p>W2 applications P/N: GA-HG340W2RS</p>	<p>(2) Header Gaskets HTX-900 exhaust gasket material is a high density fiber metal core composite.</p>
<p>W5</p> 	 <p>W5 applications P/N: GA-HG340W5R</p>	

Automatic Transmission with Floor Shifter will require repositioning of the adjustable swivel and lower rod attached to the torque shaft lever. Move them to the upper side of the torque shaft lever to clear the header collector. Some models will require additional modification for clearance of the shifting lever. (See diagram)

The support bracket is cut through and overlapped approximately ¼" and re-welded, making it shorter and moving the shift lever away from the collector.

