



## INSTALLATION INSTRUCTIONS For 1-3/4" Headers

### **PLEASE READ INSTALLATION INSTRUCTIONS BEFORE INSTALLING**

#### **1-3/4" O.D. primary tube headers with 3" collectors**

PART NO. TTI383440-134C1 (Chrome plated)  
TTI383440-134C4 (Ceramic Coated with a Thermal Barrier inside)  
TTI383440-134C5 (Polished Ceramic Coated with a Thermal Barrier)

NOTE: Ceramic Coating is a matte silver finish.

- Fits: 1967-1976 A-bodies, 1962-1974 B-bodies and 1970-1974 E-bodies
- 383 / 400 B-engines & 440 RB-engines
- Fits with Stock Heads & Edelbrock Alum. Cylinder Heads
- Clears Automatic or Standard Transmission
  - Automatic Trans: Modification required to 3-pc kickdown linkage (Sheet #SHT3703)
- Clears Floor or Column Shift
  - Column shift may require some modification of the shift linkage
- Clears Manual or Power Steering
  - Manual Steering Only on 440 A-bodies
- Clears Stock Starter or High Torque mini Starter part no.'s: R53005984, P5249644 or 56027702AC
- Clears large stick shift bellhousing using the 8-1/4" starter or the High Torque small starter (440 only)
- Fits with Schumacher Engine Mounts or equivalent
- Clears stock steering linkage
  - Will not clear the quick-ratio extended length pitman arm and idler arm

#### **ATTENTION: Make sure your engine is located to factory specs**

TTI's 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. Use the following dimensions to check your engine location before installing your headers. 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 toward the passenger-side. Measure from the center of the crankshaft to each frame rail. The difference should be 2½". If necessary place shims between the insulator assembly and the K-frame mounting pad to achieve the proper dimensions. With the engine mounted in the correct location the headers will fit properly.

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1. Disconnect the negative cable from the battery terminal.
  2. 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.
  3. Raise the front of the vehicle with an appropriate lifting device and place on jack stands.
    - A-body vehicles will require the following: Unload and remove the torsion bars. Count the number of turns on the adjustment screw when unloading the torsion bars so you can return the pre-load to the same position. Also, be sure to mark the torsion bars for indexing before removal so you are able to re-install them in exactly the same position as they were.
    - Drain the engine coolant into a suitable container before removing the exhaust studs from the cylinder heads.
    - It is necessary to use the supplied header bolts to fasten the header to the cylinder heads.
  4. Disconnect the electrical cables to the starter and remove the starter motor.
    - B & E-body vehicles: The headers can be secured with the stock studs or with header bolts. If using studs the 2nd stud from the front must be shortened for the tube clearance on both sides.
    - Standard Shift Only: Disconnect and remove the Z-bar. The Z-bar will be reinstalled after the header is in place. Remove the oil stick tube.
  5. Automatic Transmission / Kick-down linkage:
    - No modification is required on models with the single section transmission throttle rod.
    - 3-section Throttle Rod's require modification of the swivel assembly (Bellcrank & Rod) to clear the header tubes. See Throttle Rod modification instructions. (Sheet #SHT101)

- B & E Models with automatic transmission and floor shift , re-position the adjustable swivel and the lower rod attached to the shift lever. Move to the upper side of the shift lever to clear the header collector. See modified Torque Shaft Lever illustration. (Sheet #SHT3703)
6. 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. It is common on A-body installations to shim the mounts to achieve the proper engine location.
  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 35 lbs. evenly to insure a proper seal.
    - It may be necessary to raise the engine if you are using the original studs to secure the header to the cylinder head.
  8. Drivers-side Header: Remove the drivers-side engine mount bolt and raise the engine up approximately 1-1/2". Use a block of wood between the oil pan and the floor jack. Turn the steering wheel to the full right position.
    - Check the sealing surface of the exhaust ports to insure that they are clean. Place the supplied header gasket into position on the studs. Insert the header into position from under the car. Before fastening the header to the cylinder head place the starter motor into position and tighten the fasteners. Now, lower the engine back down on to the K-frame and re-install the engine mount bolt. Secure the header to the cylinder head. Use the original studs and nuts or the provided header bolts. Tighten the center bolts first then the end ports. Torque the bolts to 35 lbs. evenly to insure a proper seal. Connect the wiring to the starter. 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 1/2" from a header tube is required. Insert the oil stick tube between the header flange plate and the #1 header tube. Slight bending may be required for proper fit.
    - Re-install the clutch Z-bar at this time.
  9. Re-install the spark plugs, wires and engine coolant. 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 care and maintenance procedures. (Sheet #SHT0603)
  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.

Headers supplied with:

- (12) 3/8" 16x1" Header Bolts
- (2) Header Gaskets (taped to inside of box)
- (2) Reducers

Reducer kit Includes:

- (2) 3" - 3-bolt 1/16" Reducer Gaskets
- (6) 3/8" - 16 x 1-1/4" Reducer Bolts
- (6) 3/8" - 16 Nuts
- (6) 3/8" Split lock washers

Illustration / Information sheets attached: #SHT0603 – SHT#3703 - SHT# SHT101

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