



## P/N 2470HKR (painted) & 2470-1HKR (ceramic coated) COMPETITION HEADERS 1998-02 Camaro, Firebird, Trans Am

To complete (Off Highway) your system, use P/N 16723HKR or 16723-1HKR Y-Pipe

Thank you for making HOOKER HEADERS your choice in a high-performance exhaust system. Extensive dyno/track testing has enabled HOOKER to offer the most advanced design in exhaust systems. The installation, while not complex, will take a certain amount of time. However, the additional horsepower and improved performance will more than justify your efforts. Proper installation and maintenance will ensure long life and maximum performance from your hooker exhaust system.

**WARNING!** Breaking in an engine with ceramic-coated headers WILL result in damage to the coating and will VOID all warranties. Ceramic-coated headers require several heat cycles to fully cure before they will withstand extreme heat. HOOKER recommends using a cast-iron exhaust manifold or an old header to break in new engines to avoid coating damage.

**NOTE!** These headers do not include provisions for A.I.R. or EGR emissions fittings. They are intended for off-road, closed course racing only and are not designed or intended for street use. User assumes all responsibility for utilizing these in accordance with state and federal laws.

### **BEFORE STARTING**

Your vehicle must be raised a minimum of 36 inches. A floor hoist is ideal. If no hoist is available, we strongly urge the use of axle stands as a safety measure. **CAUTION!** YOUR CAR SHOULD NOT BE SUPPORTED ON A BUMPER JACK.

### **HELPFUL HINTS FOR HEADER INSTALLATION AND MAINTENANCE**

1. Verify the header part number with the part number on the box and invoice.
2. Unless otherwise noted, Hooker Headers are designed to fit without modifying the header (denting, cutting). **DO NOT** modify the header.
3. Unless otherwise noted, Hooker Headers are designed to fit with original equipment (i.e. Oil pan, cylinder heads, mounts, bell housings, starters, etc.).
4. When using Hooker Headers, it is recommended to use Hooker gaskets for correct port match. When using other than the recommended Hooker gaskets, match the gaskets to the head ports for a good seal.
5. Heat wrapping is not recommended, because it will prematurely fatigue the header.
6. Headers that are subjected to extreme conditions (mud, road salt, etc.) should be cleaned on a regular basis to help prevent corrosion.
7. When installing the headers, use anti-seize on header bolts and Y-pipe bolts.

### **SPECIAL COMPONENTS NEEDED FOR ASSEMBLY**

1. Oxygen Sensor Wire Extension(s) 2 each ----- 28" Long (Included with Header)

**NOTE:** These Oxygen Sensor Wire Extensions are made long enough to use either the oxygen sensor with the 8" wire length or the oxygen sensor with the 12" wire length. Any excess wire length after installation should be looped and secured into a non-used and non-heated cavity or pocket.

### **HEADER INSTALLATION PROCEDURE / DISASSEMBLY & ASSEMBLY INSTRUCTIONS** **PLEASE READ THOROUGHLY & CAREFULLY**

#### **DISASSEMBLY**

1. Disconnect the battery. Raise the car and support it with jack stands
2. Disconnect & remove the four oxygen sensors. Mark their location, so they may be reinstalled in their proper location.
3. Remove the drive-shaft safety brace. Remove the Y-pipe from the vehicle.

#### **DISASSEMBLY OF THE LEFT SIDE**

1. From below, remove the left-side catalytic converter.
2. Disconnect and remove the spark plug wires.
3. Remove the spark plugs and the left-side exhaust manifold.
4. Point the steering wheel straightforward and turn the key to the lock position and remove the key. Remove the steering shaft. **Please take note of G.M. Pt. Notice # 26068010 which states:** To help avoid damage and possible malfunction of the air bag, do not rotate the steering shaft with the steering shaft disconnected. See the G.M. service manual before disconnecting.
5. Remove the small left-side heat shield / deflector. Remove the oil filter

#### **DISASSEMBLY OF THE RIGHT SIDE**

1. Unbolt and remove the oil dipstick.
2. Disconnect and remove the spark plug wires.
3. Remove the spark plugs and the right-side exhaust manifold.
4. It is not necessary to remove the starter for installation. However, it will allow for better access to the right side #4 spark plug removal and header bolt installation.

## **ASSEMBLY OF THE LEFT SIDE WITH HEADER**

**NOTE: Use anti-seize on all header bolts and oxygen sensor threads.**

1. Insert the left-side header through the chassis from below.
2. From above, install the gasket.
3. Using the supplied 8mm lock washers over the factory exhaust bolts, start all the header bolts prior to tightening, then evenly tighten all the header bolts to 20-25 ft./lbs.
4. Reinstall the steering shaft and tighten the bolt to factory specifications.
5. Reinstall the spark plugs and tighten.
6. Reinstall the spark plug wires. Check to ensure that they do not contact the header.
7. Install the left-side pre-catalytic converter oxygen sensor into the left-side header collector.

**NOTE:** These Oxygen Sensor Wire Extensions are made long enough to use either the oxygen sensor with the 8" wire length or the oxygen sensor with 12" wire length. Any excess wire length after installation should be looped and secured into a non-used and non-heated cavity or pocket.

8. Reinstall the small left-side heat shield/ deflector and oil filter.

## **ASSEMBLY OF THE RIGHT SIDE WITH HEADER**

1. Insert the right-side header through chassis from below.
2. From above, install the gasket.
3. Using the supplied 8mm lock washers over the factory exhaust bolts, start all the header bolts prior to tightening, then evenly tighten all the header bolts to 20-25 ft./lbs.
4. Reinstall the spark plugs and tighten. Reinstall the spark plug wires. Check to ensure that they do not contact the header.
5. Reinstall the dipstick and tighten the retainer bolt.
6. Install the right-side pre-catalytic converter oxygen sensor into the right-side header collector
7. Reinstall the starter (if removed).

**NOTE:** These Oxygen Sensor Wire Extensions are made long enough to use either the oxygen sensor with the 8" wire length or the oxygen sensor with 12" wire length. Any excess wire length after installation should be looped and secured into a non-used and non-heated cavity or pocket.

## **PRIOR TO FINISHING CHECK LIST**

1. Inspect the steering shaft for proper installation.
2. Check to ensure that no wires will come in contact with the headers.
3. Check to ensure that no (l/s and r/s) heat shields come in contact with the headers.
4. Check to ensure that any and all electrical connections that were disconnected are properly reconnected.
5. Check to ensure that all oxygen sensor wires are looped and secured in a non-used and non-heated cavity or pocket.
6. **NOTE: Y-PIPE PART NUMBER 16787HKR OR 16787-1HKR IS RECOMMENDED TO BE USED AND INSTALLED WITH THIS HEADER P/N 2470HKR OR 2470-1HKR.**
7. Reconnect the battery. Start the car and check for leaks.