



Granatelli Motor Sports, Inc. • 1000 Yarnell Place • Oxnard, CA 93033-2454  
805-486-6644 (Phone) • 805-486-6684 (Fax) • Hours: M-F 8AM-5PM (PST)

[www.GranatelliMotorSports.com](http://www.GranatelliMotorSports.com)

[TechSupport@GranatelliMotorSports.com](mailto:TechSupport@GranatelliMotorSports.com)

## 2018-2021 Jeep Grand Cherokee Track Hawk Granatelli Billet High Flow Thermostat Housing

With 3/8th NPT Port

### Install Instructions

Part # 431000



#### Parts Included in System:

Qty	Description	Qty	Description
1	6061-T6 Billet High Flow Thermostat Housing	1	1/2" NPT Pipe Plug
1	M8 x 1" Bolt	1	Rubberized Flat Washer
		1	Optional - 180° Thermostat

#### Suggested Tools:

**Wrenches** – Medium flat head screwdriver or 5/16 socket, 13mm Wrench, 13mm Deep Socket, 2" to 4" socket extension, 3/8 Hex Head Socket

#### Step 1:

Familiarize yourself with the installation location of your **Granatelli High Flow Billet Thermostat Housing**. It is directly below the factory throttle body, pointing towards the Driver Side headlamp. This part is designed to be a direct replacement for the restrictive factory cast housing. It does not require a gasket. It will work with the factory 205 degree T-stat or any other aftermarket T-stat with OEM dimensions.

#### Step 2:

Drain the radiator enough to get the fluid level below the thermostat housing.

- This is done by opening the drain cock located at the bottom drivers side of the radiator.
- Open and remove the Radiator Cap - Naturally make sure the engine is not hot or under pressure
- Remove the 1/8 NPT pipe plug located just behind the thermostat housing in the manifold

**Step 3:**

Using your 13mm wrench or socket, remove the 2 bolts holding the factory thermostat housing. The short bolt on the left will be reused but the longer bolt to the right will be replaced and not reused.

**Note:** It may be useful to place a rag underneath the housing to capture the residual fluid that may drip out.

**Step 4:**

Remove the upper radiator hose from the factory housing.

**Step 5:**

Remove and replace the factory thermostat from the manifold if you intend to run a colder unit, (Not Supplied) Otherwise the stock unit can remain in place.

### Installing Your New Granatelli High Flow Thermostat Housing

**Step 6:**

Position the new Granatelli Billet Housing into place by using the earlier removed short factory M8 x 1" bolt from the left side of the factory housing.

**Step 7:**

Place the 3/8" rubberized flat washer (metal side towards the bolt and rubber side towards the Granatelli Billet housing **See Photo 3**) onto your Granatelli supplied M8 x 1" bolt. Using your 13mm deep socket, insert the bolt through the threaded hole into the face of your Granatelli Housing and into the motor, snug both bolts to factory specs - **See Photo 4 & 5**



Photo 3



Photo 4



Photo 5

**Step 8:**

Reattach your upper radiator hose to the new Granatelli Housing and tighten the hose clamp.

**Step 9:**

At this point you can either install the supplied 1/2" NPT pipe plug into the face of the housing (**See Photo 6**) or you may chose to install a temperature gauge (Not Supplied) (**See Photo 7**)



Photo 6



Photo 7

## **LIMITED WARRANTY:**

Granatelli Motor Sports warrants that all products shall be free from defects in materials and/or workmanship for ninety days from the date of purchase (except in-tank and in-line fuel pumps purchased at dealer or wd prices as these items have no warranty and roller rocker arms which have a 12-month limited warranty). The following requirements and exclusions apply: (1) You must be the original purchaser and must complete the warranty registration form (located at [www.GranatelliMotorSports.com/warranty.asp](http://www.GranatelliMotorSports.com/warranty.asp)) and return the defective product within 10 days after the expiration of the product warranty. Failure to do so voids all warranty, either express or implied set forth herein. (2) You must reside in the United States or Canada and use the product as described in the warranty registration. (3) The product must not have been altered, disassembled, modified, or converted for any other use than intended by Granatelli Motor Sports. (4) The product, or any part thereof, is not used in accordance with the operating parameters specified by Granatelli Motor Sports (5) The product or any part thereof is damaged or rendered unserviceable due to negligence, vandalism, theft, fire, debris, flood, Act of God, or other peril, malfunction of equipment, or by any cause within the Customer's control. (6) The serial number (if applicable) must not have been altered or removed. The extent of Granatelli Motor Sports' liability under this warranty shall be limited to the prompt correction or replacement, at Granatelli Motor Sports' option and at no cost to the customer other than return shipment, of any defective part of the product determined to be necessary by Granatelli Motor Sports. This only applies if written Granatelli Motor Sports received notice of the claimed defect prior to expiration of the warranty period. All warranties of merchantability and fitness for a particular purpose are expressly excluded. The duration of any and all implied warranties is limited to the duration of this express warranty. All incidental and consequential damages including but not limited to loss profits even if it has been advised of the possibility of such damages are hereby excluded. Regardless of the form of the claim, Granatelli Motor Sports liability for any damages to the customer for such product is limited to the guidelines herein. This stated, expressed warranty is in lieu of all liabilities or obligations of Granatelli Motor Sports for damages arising out of or in connection with delivery, use or performance of the product. This warranty cannot be amended or changed by any Granatelli Motor Sports representative, employee, or agent and any promises inconsistent with this warranty are void and unenforceable against Granatelli Motor Sports. Some states do not allow limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights that vary from state to state. Your sole remedy for the above warranties is the repair or replacement of the defective product only, at Granatelli Motor Sports' sole discretion.

## **RETURN POLICY:**

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