TKOSROD1391K 2013-2017 DODGE VIPER RACING TRANSMISSION MOUNT

INSTALLATION INSTRUCTIONS TKOMOTORSPORTS.COM

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Prior to any work being done it is recommended to use collision tape or some other protective cover in area where work will be done to minimize possibility of damage. When working underneath any vehicle, follow all industry standards for securing elevated vehicles. Proper lifts, floor jacks, and correct jack stands must always be used. Work must be performed on level and stable surface (concrete).

STEP 1. Raise the vehicle and secure it. A 2-post vehicle lift is recommended. Using a floor jack and jack stands is also acceptable. Follow all industry standards and safety precautions when raising a vehicle and performing work underneath that vehicle. Once the vehicle is raised and secure you can now perform the installation of your new racing transmission mount.

STEP 2. You will need your floor jack, a short piece of 2x4 wood approx. 8 inches long and a rag. Place the 2x4 on the floor jack lift plate along with the folded-up rag. See Install Picture 1.



Install Picture 1



Install Picture 2 (Viper in photo has dry sump lines, ARHC system lines and fire suppression)

STEP 3. Place the floor jack underneath your transmission, just forward of the transmission mount. Raise the floor jack until it makes light contact with the transmission.

STEP 4. Now with the floor jack in place you can remove the rear transmission mounting bolts. Remove the (4) bolts that mount the transmission mount to the transmission. See Install Picture 3. Next, remove the (2) larger bolts that connect the transmission mount to the transmission crossmember. See Install Picture 4. You do not need to remove the transmission crossmember to install the transmission mount.

STEP 5. With all (6) rear transmission mount mounting bolts removed; you can now remove the rear transmission mount. Raise your floor jack approximately ½ to 1 inch to remove the factory transmission mount.



Install Picture 3



Install Picture 4



Install Picture 5- Factory transmission mount removed

STEP 6. With the factory transmission mount removed you can now install your new TKOSROD1391K RACING TRANSMISSION MOUNT.



Install Picture 6

Your new transmission mount should come pre-assembled and ready to install. If for some reason you disassembled the transmission mount the assembly is very easy as you can see in Install Picture 6. The 2-bolt plates go on the bottom side of the transmission mount as you can see in Install Picture 6.

The sequence of 2-bolt plates is as follows:

- 1/8-inch solid 2-bolt plate
- 1/4-inch urethan 2-bolt cushion spacer
- 1/8-inch solid 2-bolt plate
- 1/8-inch light weight 2-bolt plate
- 1/8-inch light weight 2-bolt plate
- 1/2-inch light weight 2-bolt plate

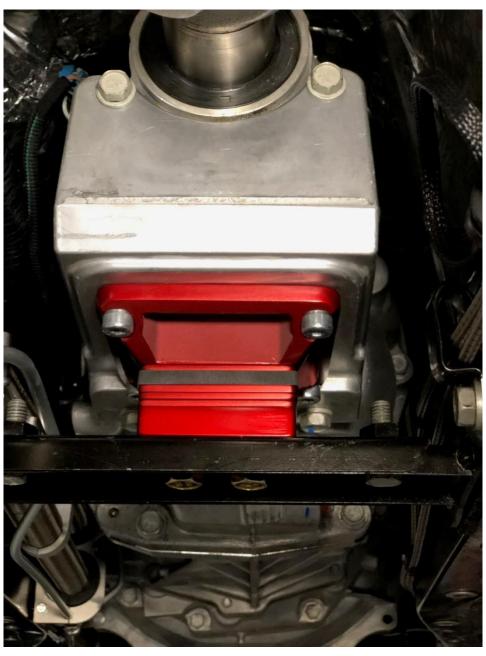
(Install Picture 7 shows the light weight plates, solid plates and urethane cushion spacer.)



Install Picture 7

STEP 7. Installing your new transmission mount. Separate the 4-bolt main transmission mount from the spacer plate stack. Slide the 4-bolt main transmission mount into position on the transmission and loosely install the qty 4 - M8 zinc socket caps that fasten the main transmission mount to the transmission. Next, slide the stack of spacer plates and urethane cushion spacer into place making sure the 2-bolt holes of all the plates stay aligned as much as possible. Align all the 2-bolt plates with the transmission crossmember 2-bolt mounting holes and install the qty 2 - M10 flanged head bolts that came in your transmission mount. You will need to lower the floor jack that has been supporting the transmission to install the M10 flanged head bolts. With all the bolts installed loosely, you can now start to correctly torque all the bolts starting with the M8 zinc socket caps.

M8 zinc socket caps use a M6 hex drive and torque bolts to 20 ft lbs. M10 transmission crossmember mounting bolts use a 15mm socket and torque to 40 ft lbs. You do not need to use thread locker on any of the bolts you are installing if you use correct torque wrench and torque specifications.



Install Picture 8

Trouble shooting

Factory transmission mount won't come out?

Make sure you removed all the bolts holding the transmission mount in place. Make sure the floor jack has the transmission mount raised off of the transmission crossmember. Use a pry bar to separate the transmission mount from the transmission, sometimes they can get stuck. Make sure the floor jack is raised enough to get the entire factory transmission mount out.

The 2 transmission crossmember bolts aren't easy to install?

Use floor jack to gently take the load off of the transmission cross member. This should allow the 2 crossmember bolts to be installed easier.

I always use thread locker on all the bolts on my car, why don't I have to on this transmission mount?

You can use thread locker on any bolt or nut you like if you feel it necessary.

I feel more vibrations and hear sounds I didn't hear before after installing this transmission mount?

This is normal. With a racing transmission mount you will hear a little bit more of the drivetrain than you did before, again, this is normal.