



## Livernois 6.2 Ford Raptor Rocker Brace Kit

This rocker bar brace kit is designed to work with the Ford 6.2L Engine. This system bolts over top of the factory hold down bars and provides additional strength and rigidity. When adding valve springs or camshafts the factory rocker bar hold downs do not have sufficient clamping force to offset the higher loads imposed on them. This causes flex in the rocker bars which in turn distorts the cam bores of the cylinder head. This condition can allow for camshaft to cam bore contact and can ruin the camshaft bore of the head and destroy the engine.

These braces prevent the rocker bars from flexing and do not allow the cam caps to flex. This keeps the cam bores perfectly round.

The kit includes the following components-

***Plates (5 Left, 5 Right)***

***Bolts (40)***

1. There are both left and right side braces. The Livernois Logo faces out towards the exhaust. If you are standing on the exhaust side of the engine and looking towards the middle of the engine then you should be able to read the logo as it should be right side up.
2. To remove the factory bolts use a set of pliers and grip just the head of the bolt. Using a quick jerking method pull the bolts up out of the factory hold downs. This should remove the retention clip that holds the bolt in at the same time.
3. The factory rocker hold downs will now be free. Install the braces over the top of the factory hold downs,
4. Using the provided ARP bolts install all of the bolts. (ONLY HAND TIGHT)
5. It is very important that the bolts be tightened in an inside out pattern, starting from the middle and working out in stages towards the outside.
6. The purpose of tightening the bolts in a series of steps and working from the inside out is that the rocker bars will bend if you use the bolts to pull down the shafts. It is critical that you pull the rocker bars down in a series of steps in order to prevent the bars from bending.

7. After the bars are fully pulled down and evenly seated the next step is to torque the bolts to 25 ft lbs.

**Notes-**

**Failure to follow the correct tightening procedure for the bolts will cause damage to the rocker bars.**