

2011-2023 Phaser delete / Camshaft Adjuster Installation:

Professional instalation is required.

Refer to Ford Manual for Timing Cover removal. It is always best to start the install process with the crankshaft key facing upwards with #1 cylinder on the compression stroke.

1. Remove the Primary Timing Chains from the engine.
2. Unbolt the factory Phasers from the camshaft by removing the 3 center bolts (or Single bolt for 2018+ Exhaust)
3. Remove the **outer** bolts connecting the phaser assembly from the Gear/sprockets. These are **reverse thread** on 15-17 Models on the **EXHAUST CAMSHAFT**. The **intake Camshafts** phasers bolts are **STD thread**. **DO NOT DISCARD THE REVERSE THREAD BOLTS, THEY WILL BE REUSED!!**
4. Once the bolts have been removed, dis assemble the phasers 1 at a time so that you are only left with the gears, no other parts will be re-used.
5. The MMR exhaust phaser delete/adjuster will slide inside of the factory Exhaust primary gear, be sure to line up the bolt pattern and then install the bolts, these can sometimes be a tight or close tollerance fit. The secondary sprocket will bolt to the back of the MMR phaser delete/adjuster. Hand tighten the bolts until you are ready to degree/adjust the camshafts. Final Bolt torque is 12ft lbs and we suggest loctite on all bolts
6. The intake phaser is similar to the exhaust phaser with the exception that it does not have a primary gear attached to it. For the intake phaser delete/adjuster, simply line up the bolt pattern and bolt it to the factory secondary sprocket. Hand tighten the bolts until you are ready to degree/adjust the camshafts. Final Bolt torque is 12ft lbs and we suggest loctite on all bolts

Re-assemble and Time the Engine Per the Factory Ford Manual. **Basic Timing chain installation instructions can be found on the MMR youtube channel.**

You will need to degree your camshafts prior to re-assembling the engine. This process should be done by qualified personel only. Incorrect cam timing will cause bent valves and possible engine damage.