Dragon Fabrication

Pre Installation

Although we make great effort to build the Synchronizer to fit standard ford 385 series blocks often, custom machine work includes decking the block and cylinder heads during the blueprinting process. This lowers the distributor mounting pad and directly affects the interface with the gears.

It is important to verify the cam gear wear patter before final installation.

Check the wear pattern by:

1. Coating the Synchronizer gear with a small amount of white lithium grease.
2. Coat the socket for the Oil pump drive with a small amount of white lithium grease.
3. Insert the Synchronizer into the Distributor hole in the block.
4. Slightly turn the synchronizer so that the gears mesh.
5. Continue light pressure as you continue slightly rotate the synchronizer till it seats against the block.
6. Once seated against the block tighten the hold down. This will place the synchronizer in its final location.
7. Rotate the engine several revolutions.
8. Remove the Synchronizer to inspect the wear pattern and Oil pump drive engagement length.
9. The pattern left on the gear should place the wear in the center of the gear.

Adjusting the Wear Pattern

To raise the Synchronizer purchase Distributor shims that install between the synchronize collar and the block.

The Synchronizer has bushings between at the very top of the shaft and between the Thrust bearing and the cam gear. By removing the cam gear the washers may be rearranged to accommodate small adjustments within the tolerance of the Sensor cap. This adjustment is only a few thousands.

Installation

It is important to make sure the synchronizer gear is clean and lubricated when installed.

1. Wipe the gear clean and use the provided Cam Lube to lubricate the gear. If not already installed install the installation cap on to the Synchronizer. The Installation Cap is the one with the Arrow on it.
2. Insert the Synchronizer into the Distributor hole in the block.
3. Slightly turn the synchronizer so that the gears mesh.
4. Continue light pressure as you continue slightly rotate the synchronizer till it seats against the block.
5. Once seated against the block tighten the hold down. This will place the synchronizer in its final location.