



Dragon Fabrication

Mount the Wheel to the Hub

1. Mount the wheel to the Hub with the provided 3/8 bolts. The Wheel slides on to the Hub so that it is on the engine side of the hub. The bolts thread thru the wheel into the hub from back to front. This allows for clearance with the timing cover and oil pan.
 - a. DO NOT use lock tight at this point as you will need to adjust the wheel. The hub is ship in this configuration.
 - b. Leave the bolts snug but loose enough to adjust the wheel.
2. Slide the Hub on to the crank shaft and seat it completely. If it is very tight remove it and using 400 grit sandpaper lightly sand the key way groove to remove some of the anodizing. Do not make this loose as a tight fit here keeps your timing accurate.

Fabricating the Sensor bracket:

The Kit does not come with a sensor bracket as the choice of sensor and location is dependent on the ECU used. For the Ford EDIS ECU the sensor will mount @ 50 degrees before TDC. This conveniently locates the sensor near the two lower right bolts of the timing cover. To make a bracket for this installation:

1. Make a base plate that has holes that match the two bolts timing cover bolts. Since the timing cover bolt holes are not the same height, the top one needs spacing behind the plate to align with the bottom one stack washers to make the plate parallel to the block.
2. Make a sensor plate that will be welded 90 degrees to the base plate that mounts the sensor at the right distance from the timing cover.
3. Move the Engine to TDC for #1.
4. Install the trigger wheel with the missing tooth at TDC. Set the wheel so it is in the center of the slots to allow some fine adjustment later. At this point I do not use lock tight on the bolts as you may have to adjust things as you get it all aligned.
5. Install the first plate and spacer.
6. I made a washer that slips over the wheel tooth but keeps the sensor .035 clearance from the wheel. I tape this washer to the end of the sensor so that when the sensor is mounted in the sensor plate I can just push the plate against the correct tooth and all will be aligned.
7. Place the sensor plate with sensor so that it is aligned with the fifth tooth in the center of the sensor and the sensor face is 0.035 from the tooth.
8. Tack the two plates together.
9. Tighten the Wheel bolts so the wheel will not move again.
10. Take the sensor mount off and weld it up making sure it does not flex as you weld.

Final Assembly:

1. Remove the Hub and Wheel.
2. Remove each bolt one at a time. Add Red lock tight and reinstall the bolt then do the next one.
3. Add Jam nuts on the reaming thread of the wheel bolts for added security. If these interfere with your balancer exclude them and rely on the lock tight.
4. install the Hub assembly
5. Install your sensor bracket and sensor.
6. Verify the Alignment of the sensor

Additional Photos of a custom sensor bracket installed:

