



Dragon Fabrication

Question:

Where to mount the EFI Crank Sensor?

Answer:

Where the sensor is mounted is very much depends on the ECU. Each ECU requires the sensor to line up on specific teeth.

So first question is what does your ECU require?

Question:

Where to Mount the Sensor when using a Ford EDIS or Megasquirt ECU?

Answer:

The ford EDIS-8 does use a VR sensor and a 36-1 trigger wheel. The EDIS-8 requires the VR sensor to be aligned with the 5th tooth before top dead center in other words 50 degrees before TDC for #1 Cylinder.

For more information on the alignment and some help in what car models have the proper sensor see Megasquirt-3 MS3 Ignition - Ford EDIS (<http://www.megamanual.com/ms2/EDIS.htm>) Look down the page for the section on Ford EDIS-8 it's a good write up.

The Dragon Fabrication kit has 4 slotted holes for mounting the wheel to the spacer to allow a few teeth rotation on each quadrant. This allows lots of position options for the sensor.

If you install the hub with the missing tooth at TDC for #1 cylinder the sensor @ 50 degree BTDC sensor lines up about halfway between the two lower left hand bolts that secure the timing cover.



Question:

How to build a simple sensor bracket?

Answer:

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.

There you have a serviceable stiff bracket that will do the job.