



# **Programmable Distributorless Ignition System for VW Aircooled Engines**

## Mounting Instructions

Getting rid of your distributor and installing a programmable distributorless ignition system can solve a multitude of problems such as:

1. Lag in power and performance because of the mechanical advance system in the 009 VW distributor.
2. Hard starting.
3. Point adjustment and replacement problems.
4. Back firing, stumble and lower gas mileage.
5. Vapor lock.

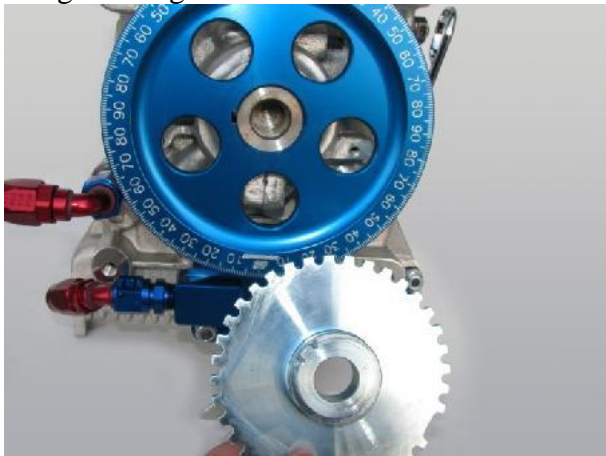
With this kit you will do away with the VW distributor, coil, and mechanical fuel pump (provided you want to completely remove the distributor). You will replace these with a more reliable electric fuel pump, modern coil pack, edis (electronic distributorless ignition system), programmable distributorless control unit and trigger fired crankshaft pickup. These are all bolt on items and do not require machining of components.

Instructions:

1. Turn the engine crankshaft pulley until it is at TDC.



Remove the original crankshaft pulley bolt and mount the 36-1 tooth crankshaft trigger wheel using the longer bolt from the kit. Make sure to align the keyway.



2. Remove the two upper case nuts behind the crank pulley. Make sure to remove all washers so mount can sit flush against engine case.



3. Install the provided bracket with shouldered nuts provided. Torque to 18 ft. lbs.

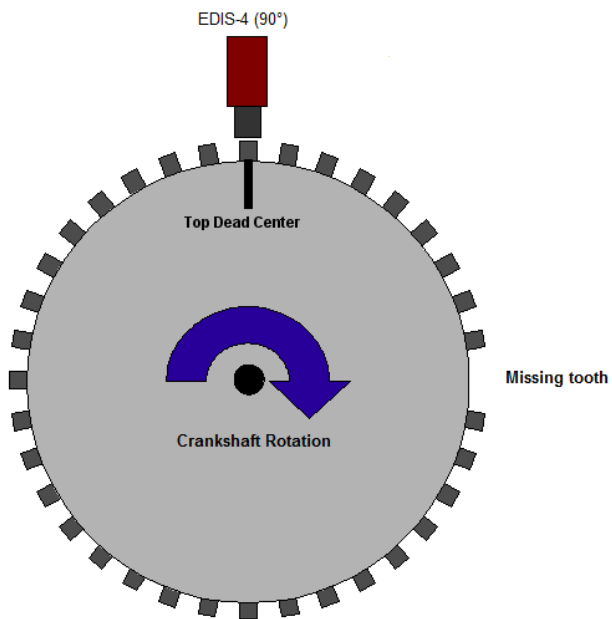


4. Install extension bracket, leave bolts loose enough to allow the extension to slide.





5. Install Crank sensor into extension bracket. **Line up the sensor over the 9<sup>th</sup> tooth** counter clockwise from the missing tooth on the trigger wheel.



6. Use provided shims if necessary to shim sensor at least .020" from trigger wheel. Tighten everything down making sure the sensor is **centered over the 9<sup>th</sup> tooth.**



7. Mount the TPS module or Vacuum pickup.
8. Next mount the coil pack and edis modules. These can be mounted in the engine compartment away from hot exhaust components.
9. Now wire the coil pack and edis modules.
10. Mount the Megajolt/E Programmable Ignition Control Unit inside the vehicle in a dry location.
11. Wire the Megajolt/E Programmable Ignition Control Unit to the edis module.
12. Connect your laptop to the Megajolt/E Programmable Ignition Control Unit and install the MAP into the unit.
13. Run the engine with the Distributorless System first before removing the existing distributor or fuel pump to make sure everything is operational.
  - The next part is optional as you can leave the existing distributor and fuel pump if desired. If you do decide to remove the distributor you **MUST** remove the distributor, drive gear, drive gear washer and fuel pump.
14. Remove the VW fuel pump first and replace it with the electric fuel pump from the kit (not provided in all kits) or a suitable replacement. You must install an electric fuel pump if you intend to remove the VW distributor. The electric fuel pump should be mounted close to and below the fuel tank if possible.

Mount the electric fuel pump to the frame or body securely. Connect the negative wire (black wire) of the electric fuel pump to the frame or body of the vehicle and the positive wire (red wire) to a connection which will apply

12vdc when the ignition switch is in the on (run) position. Make sure to use an inline fuse or feed it from an ignition switched fuse on the fuse block of the vehicle.

15. After removing the fuel pump, loosen the distributor lock down clamp and remove the distributor, spark plug wires and coil.



16. Using a distributor drive gear removal tool remove the distributor drive gear using a slow back and forth action. You may need to turn the crankshaft pulley slightly. The distributor drive gear washer should fall off of the distributor drive gear and land on the distributor drive gear bushing landing.



17. Slide a magnet down through the distributor mounting hole to retrieve the distributor drive gear washer. You may be able to look through the fuel pump mounting hole to see the washer as you pull it out of the engine.

18. Install the distributor plug according to the included instructions.



19. Install a fuel pump block off plate of your choice (not included in the kit). Make sure to place the gasket under the block off plate when installing.

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