

Installation Instructions for 40013

HEI Distributor

Small Block Ford 351W

1. Unpack the distributor carefully and inspect it for possible shipping damage. Inspect again after removing the cap.
2. If the distributor to be replaced has not already been removed from the engine, remove its cap. On a GM HEI distributor, unplug the pickup to coil harness from the cap. Do not remove the plug wire at this time. Crank the engine slowly until the rotor blade aims at a fixed point on the engine or firewall. Note this point for future reference.
3. Find the connector in the wiring from the distributor to the ignition switch, and unplug it.
4. Note the exact position of the vacuum advance canister; Put a reference mark on the engine or firewall so that the new distributor may be easily installed in the same position.
5. Loosen and remove the distributor hold-down bolt and clamp and lift the old distributor out. If the engine had been running within the past few minutes, the distributor housing may be hot and coated with hot engine oil. Wrap a shop towel around the distributor to avoid burning your hands and dripping oil.
6. Lower the new distributor into position. The rotor should be aimed at the same fixed point as was the rotor of the old distributor, and the vacuum canister aligned with the reference mark. After the new distributor has been lowered into place, you may find that it hasn't seated firmly against the support boss, this indicates that the lower end of the distributor shaft is not properly aligned with the oil pump drive shaft. Do not attempt to force the distributor into position.
7. Reinstall the hold-down clamp and thread the bolt in just enough to exert a very slight pressure against the distributor. If the distributor is not firmly seated, manually rotate the engine until the distributor drops down into place.
8. With the distributor properly seated, tighten the hold-down bolt just enough so that the distributor is held in place but can still be rotated with a little effort. Again, make sure that the vacuum canister is aligned with the reference mark.
9. Remove the plug wires one at a time from the old cap and install them in the corresponding positions of the new one (on GM HEI distributors, it will also be necessary to transfer the coil and coil cover from the old cap to the new one). After all wires have been transferred, verify that the wire in the terminal post is aligned with the rotor leads to number one cylinder. If you are unsure of cylinder number position or firing order, this information can be found in the service manual that covers your particular engine. Put on the distributor cap.
10. Reconnect the wiring leading from the distributor to the ignition switch, on GM HEI distributors, plug the pickup lead connector into the new distributor cap.
11. Connect the timing light. Start the engine and allow it to warm up sufficiently to idle smoothly. It may be necessary to rotate the distributor (either clockwise or counter-clockwise) before a smooth idle can be achieved. If the engine will not idle smoothly, the firing order may be incorrect or the rotor may not have been properly aligned during installation. Consult a service manual for corrective procedure.
12. Consult the appropriate service manual to determine the factory-recommended initial timing and idle speed. Set initial spark timing with the vacuum advance line disconnected and plugged. Advancing the timing two to four degrees from the factory setting will usually provide improved performance and fuel economy. However, timing advance beyond factory specification may result in detonation, which can cause engine damage. Listen carefully. If you hear the engine knocking or pinging, retard initial timing as required to eliminate it.

Note: Adjust vacuum advance with the Allen key.

Chevy/GM-Counter clockwise to increase the advance, clockwise to retard the advance.

Ford-Clockwise to increase the advance, counter clockwise to retard the advance.



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