

CH Twin Exmark/Toro Carbureted to ECH749 Commercial EFI Repower

This engine can be installed in Exmark/Toro equipment to repower with Kohler EFI. Some additional components may be needed to complete the installation. Please read through these instructions, and order any additional parts required for the installation, from your Kohler source of supply. Refer to Parts Bulletin 258 for information on the harness adapters.

NOTE: These instructions are a guide to assist with the electrical adaptation of most repowers, when the corresponding carb. wiring harness to EFI jumper adapter part numbers match. There may be certain circumstances where unknown changes have been conducted on the equipment that is being repowered. It is the responsibility of the technician to ensure that the conversion process is correct and secure.

	⚠ WARNING Accidental Starts can cause severe injury or death. Disconnect and ground spark plug lead(s) before servicing.	Before working on engine or equipment, disable engine as follows: 1) Disconnect spark plug lead(s). 2) Disconnect negative (-) battery cable from battery.
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This Kit Contains –

Qty.	Description
1	EFI Marketing Basic Engine
1	Harness Adapter
1	Installation Instructions

To Install –

1. If your Exmark/Toro application features a four pin engine connector (A) in Figure 1, the enclosed harness adapter shown in Figure 2, should work to connect the new EFI engine to the Exmark/Toro wiring harness.

It is the engine installer's responsibility to ensure wire compatibility. If you are replacing an engine that is not a Kohler, or your arrangement has been changed from factory, please reference Parts Bulletin 258 for the appropriate connector with leads. Please also reference the enclosed TT-5238 for installation and wiring instructions.

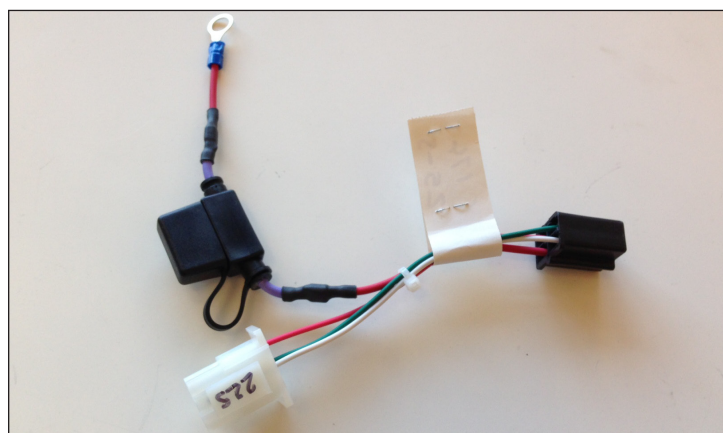


Figure 2. Harness Adapter.

2. Many of the four pin equipped Exmark/Toro units also utilize a separate yellow (B) & red (C) starter solenoid engagement wire in Figure 3. These wires will need to be retained and installed on the new EFI engine starter solenoid for proper starter operation. Figure 3 shows the original engine configuration.

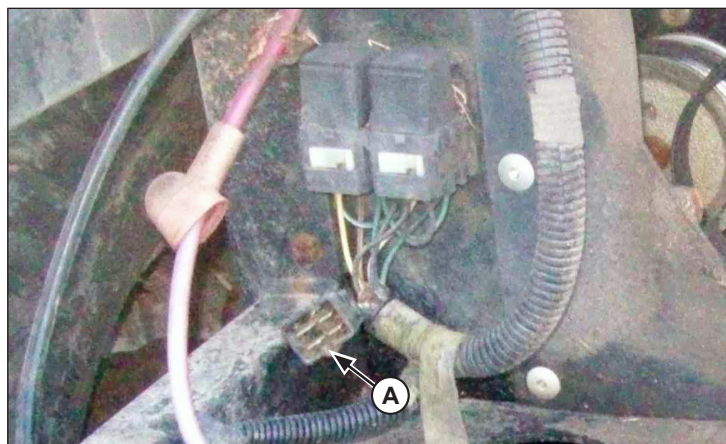


Figure 1. Four Pin Engine Connector on Application.

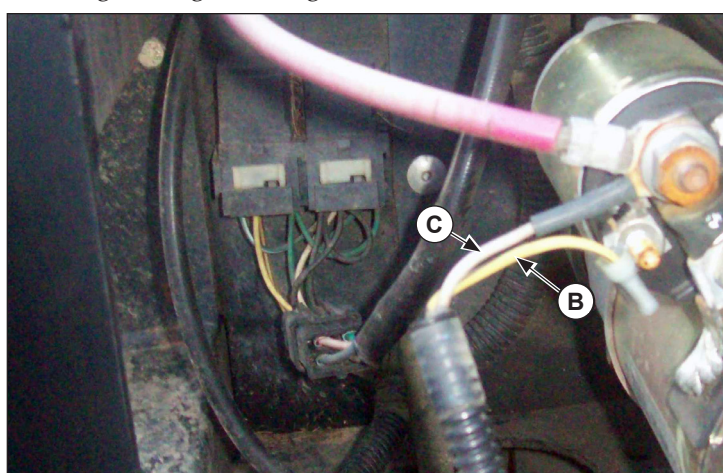


Figure 3. Separate Yellow and Red Wires on Original Kohler Engine.

3. Attach the red (C) wire to the positive post of the starter solenoid, and insert the yellow (B) spade terminal into the EFI starter solenoid energizing terminal as shown in Figure 4. Tie off and seal the blue (D) wire from the engine harness on the new EFI engine as it will not be required for this application.



Figure 4. Connecting Lead Wires to Starter on Kohler EFI Engine.

4. Inspect the electric clutch power leads for the presence of a clutch clamping diode (E). See Figure 5. If a clamping diode is not present from the manufacturer of the equipment, order and install Kohler clamping diode kit 25 755 40-S (available separately from your Kohler source of supply). Installation instructions are included with the kit.

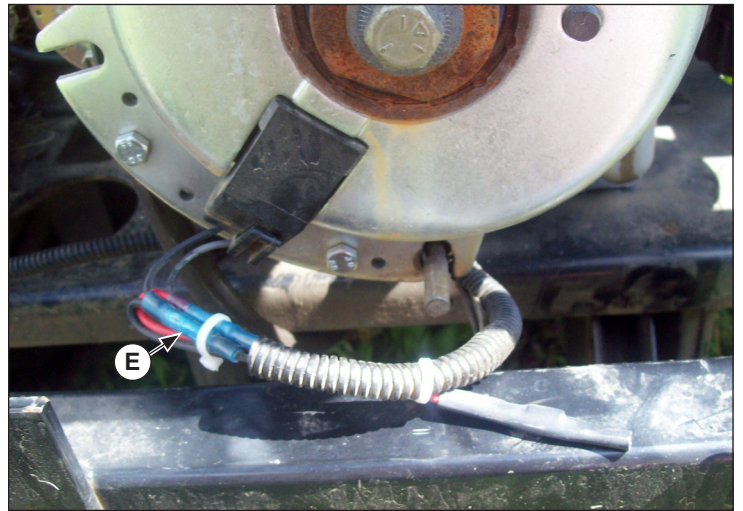


Figure 5. Clutch Clamping Diode on Equipment.

5. Reconnect the spark plug lead(s), negative (-) battery cable, and test run the engine.