

INSTRUCTION BULLETIN

No. 340867 Machine: 800 / 8410 Published: 07-2007 Rev. 00

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in the machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save the cost of ordering an entire kit.

NOTE: Numbers in parenthesis () are reference numbers for parts listed in Bill of Materials.

Installation instructions for kit number 9003676

SYNOPSIS:

This kit contains the parts needed to replace the ignition control / upgrade the MAP sensor on 800 / 8410 machines equipped with Ford 2.3L engines. Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 3 hours)

PREPARATION:

- 1. Park the machine on a clean level surface and set the parking brake.
- 2. Raise the hopper to the fully raised position and engage the hopper support bar. Refer to the Operators Manual for additional instructions and safety information.



WARNING: Lift arm pinch point. Stay clear of hopper lift arms.

WARNING: Raised hopper may fall. Engage hopper support bar.

3. Turn off the machine and remove the key.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, set parking brake, turn off machine, and remove key.

- 4. Open all covers necessary to access the batteries and engine compartment.
- 5. Disconnect the battery cables from the battery.



WARNING: Always disconnect battery cables from machine before working on electrical components.

INSTALLATION:

- 1. Open the engine covers and/or doors to access the engine.
- 2. Disconnect the vacuum hose from the ignition module. Leave the vacuum hose attached to the vacuum port on the intake manifold. Refer to Fig. 1.
- 3. Remove the existing engine wire harness from the machine. Discard the engine wire harness.
- Install the new engine wire harness (6) onto the machine. Reconnect the wire harness to all components <u>except</u> the CPS (crankshaft position sensor).
- 5. Connect the 10-pin connector on the harness jumper (2) to the engine wire harness (6). Refer to Fig. 2.
- Remove the existing ICM from the air cleaner bracket. Discard the ICM and mounting hardware.
- 7. Hold the new ICM (1) into place where the old ICM was located on the air cleaner bracket and drill three 5mm (drill bit #8) holes through the existing holes in the new ICM and into the area where the new ICM will be mounted. Be careful to not drill through any hoses or components located on the other side of the air cleaner bracket.

- 8. Use three hex screws (7), three hex nuts (8) and six washers (9) to install the ICM (3) onto the air cleaner bracket.
- 9. Hold the MAP sensor (3) above the ICM (1) where the MAP sensor will be mounted onto the air cleaner bracket and route the vacuum hose (4) and harness jumper (2) up to the MAP sensor. The vacuum hose and harness jumper must reach the MAP sensor.
- 10. Once again hold the MAP sensor (3) where it was held above the ICM (1)in the previous step and drill a 5mm (drill bit #8) hole through each existing hole in the MAP sensor and into the air cleaner bracket. Be careful to not drill through any hoses or components located on the other side of the air cleaner bracket.

NOTE: Position the MAP sensor (3) so the vacuum port connection points down and above the source of the manifold vacuum to prevent moisture from collecting in the MAP sensor. Moisture can damage the sensor in ambient temperatures below freezing.

- 11. Use two hex screws (7), two hex nuts (8) and four washers (9) to install the ignition module (1) onto the air cleaner bracket.
- Connect the 23-pin connector on the harness jumper (2) to the new ignition control module (1). Refer to Fig. 2.
- Connect the 3-pin connector on the harness jumper (2) to the MAP sensor (3). Refer to Fig. 2.
- 14. Connect the CPS connector on the harness jumper (2) to the CPS sensor. Refer to Fig. 2.
- 15. Connect the vacuum hose left attached to the vacuum port on the intake manifold to the MAP sensor (3). Refer to Fig. 1.
- Use two clamps (5) to secure the harness jumper (2) and unused connectors to the main wire harness.
- 17. Reconnect the battery cables to the battery.
- 18. Start and test the machine to ensure it functions properly.





FIG. 2-New Jumper Harness

| | | Tennant | | |
|------------------------------|------|----------|--|------|
| | Ref. | Part No. | Description | Qty. |
| Δ | | 9003676 | Module Kit, Ignition, Replmt [Ford 2.3L] | 1 |
| $\mathbf{A} \mathbf{\nabla}$ | | 374283 | VR, Module Kit, Ignition | 1 |
| | 1 | 374275 | VR, Module, Cntrl, Ignition | 1 |
| | 2 | 374276 | VR, Harness, Wire, Jumper | 1 |
| | 3 | 374277 | VR, Sensor | 1 |
| | 4 | 374278 | VR, Hose, Vacuum | 1 |
| | 5 | 374279 | VR, Clamp | 2 |
| | 6 | 370875 | VR, Harness, Wire, Eng | 1 |
| | 7 | 06946 | Screw, Hex, M6 X 1.00 X 35, 8.8 | 5 |
| | 8 | 08708 | Nut, Hex, Lock, M6 X 1.00, NL | 5 |
| | 9 | 01684 | Washer, Flat, 0.27B 0.69D, .05, SS | 10 |

Bill of Materials for Module Kit, Ignition, Replmt [Ford 2.3L]-9003676

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