

FB: Power Take Off (PTO)

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FB1 PTO INDICATOR LAMP

Did you come to this pinpoint test for an always on/ never on PTO indicator?

Yes	No
GO to FB7 .	GO to FB2 .

FB2 PTO NOT WORKING CORRECTLY: CHECK THE PTO INDICATOR LAMP OPERATION

Note: The following conditions must be met before the PTO engages:

- Engine at normal operating temperature
- Accelerator pedal is released
- TFT within normal operating temperature
- Parking brake is applied
- Brake pedal is released
- Automatic transmission is in the PARK position
- Manual transmission - the clutch pedal is released

Note: This step requires operating the PTO component. Refer to the aftermarket manufacturer for the PTO operating instructions. Follow all safety precautions.

- Ignition ON, engine running.
- Activate the PTO switch.

Does the PTO indicator illuminate?

Yes	No
GO to the aftermarket PTO mechanical manual.	GO to FB3 .

FB3 CHECK THE INTEGRITY OF THE PTO SWITCH AND THE PTO SWITCH CIRCUIT

- Access the PCM and monitor the PTO PID.
- Cycle the PTO switch, from off to on to off.

Does the PTO PID change state?

Yes	No
GO to FB4 .	REPAIR the PTO circuit or switch as necessary. CLEAR the DTCs. REPEAT the self-test.

FB4 CHECK THE PTO LOAD PID STATE IN THE PCM

- Access the PCM and monitor the PTOLOAD PID.
- Cycle the PTO switch,

Does the PTO LOAD PID change state?

Yes	No
GO to FB5 .	REPAIR the PTO ENG circuit or switch as necessary. CLEAR the DTCs. REPEAT the self-test.

FB5 CHECK THE PTOIR_V PID STATE IN THE PCM

Note: The PTOIR_V PID represents an analog input which reflects the user requested engine speed.

- Access the PCM and monitor the PTOIR_V PID.
- Cycle the PTO switch,

Does the PTOIR_V PID change state?

Yes	No
GO to FB6 .	REPAIR the PTO RPM circuit or switch as necessary. CLEAR the DTCs. REPEAT the self-test.

FB6 CHECK THE PTOIL PID STATE IN THE PCM

- Access the PCM and monitor the PTOIL PID.
- Cycle the PTO switch,

Does the PTOIL PID change state?

Yes	No
GO to FB7 .	VERIFY no DTCs are present. VERIFY the vehicle conditions in step FB2 are correct for PTO operation.

FB7 PTO INDICATOR LAMP ALWAYS OFF OR ON: CHECK THE PTOIL_F PID

- Access the PCM and monitor the PTOIL_F PID.

Is a concern present?

Yes	No
REPAIR the circuit as necessary. CLEAR the DTCs. REPEAT the self-test.	GO to the aftermarket PTO mechanical manual.
