

MID 113 - CID 1488 - FMI 05

Conditions Which Generate This Code:

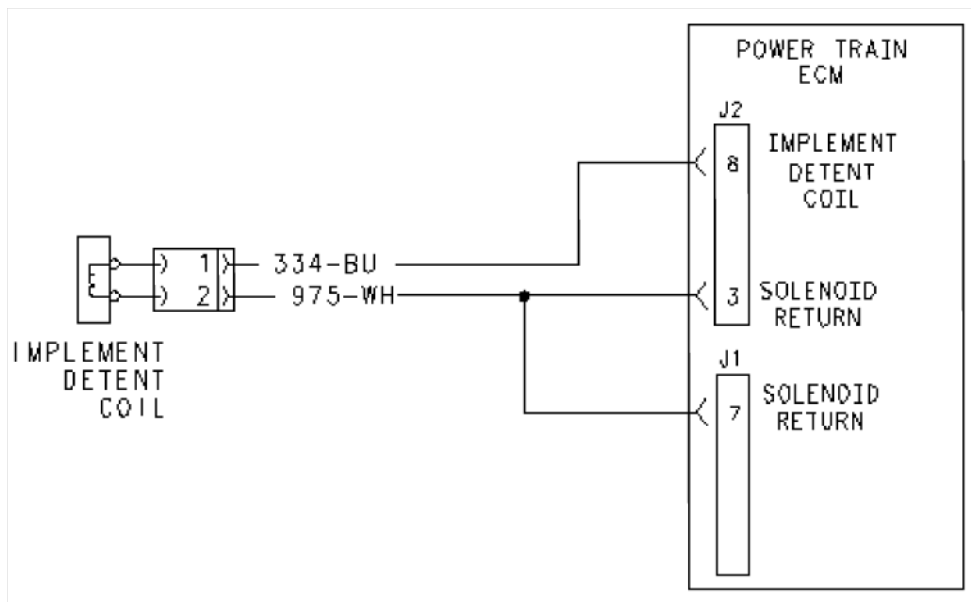


Illustration 1

g00766731

Schematic of the coil (implement detent)

This diagnostic code is recorded when the current of the coil is below normal.

Test Step 1. CHECK THE COIL.

- A. Turn the key start switch to the ON position. Ensure that CID 1488 FMI 05 is on hold.

- B. Disconnect the machine harness from the implement detent coil.
- C. At the machine harness connector for the coil, place a jumper from contact 1 to contact 2.
- D. Observe the status of the fault present indicator.

Expected Result:

"SERV CODE" is displayed and "SERV CODE" is NOT displayed as the jumper is installed and the jumper is removed.

Results:

- **YES** - The circuit is correct. The coil has failed. Repeat this test step in order to verify that the coil has failed.

Repair: Replace the coil.

Stop.

- **NO** - The fault remains. Proceed to test step 2.

Test Step 2. CHECK THE SIGNAL CIRCUIT OF THE COIL FOR AN OPEN.

- A. Turn the key start switch to the OFF position.
- B. Disconnect the machine harness connectors J1 and J2 from the ECM.
- C. The jumper of test step 1 remains installed.
- D. At machine harness connector J1 and J2, measure the resistance from J2-8 to J2-3 and to J1-7.

Expected Result:

There should be less than 5.0 ohms resistance.

Results:

- **OK** - The machine harness is correct. Proceed to test step 3.
- **NOT OK** - There is an open circuit in the machine harness. The open is in wire 334-BU or in wire 975-WH of the machine harness.

Repair: Repair the machine harness or replace the machine harness.

Stop.

Test Step 3. DETERMINE IF THE DIAGNOSTIC CODE IS STILL ACTIVE.

- A. Inspect the contacts and clean the contacts of the harness connectors.
- B. Reconnect all harness connectors.
- C. Turn the key start switch to the ON position.
- D. Enter service mode of the Caterpillar Monitoring System and clear all inactive diagnostic codes.
- E. Operate the machine.
- F. Stop the machine.

G. Determine if the CID 1488 FMI 05 diagnostic code has recurred.

Expected Result:

A CID 1488 FMI 05 is recorded.

Results:

- **YES** - The problem has not been corrected. It is unlikely that the ECM has failed.

Repair: Exit this procedure and perform the diagnostic code procedure again. If the problem persists, the ECM may have failed. Prior to replacing an ECM, always contact your dealership's Technical Communicator for possible consultation with Caterpillar. This consultation may greatly reduce repair time. See the Testing and Adjusting, "Electronic Control Module (ECM) - Replace".

Stop.

- **NO** - The diagnostic code is NOT present.

Repair: The problem does not exist at this time. The initial problem was probably caused by a poor electrical connection or a short at one of the harness connectors that was disconnected and reconnected. Resume normal machine operation.

Stop.