SERVICE MANUAL

VM3080PLUS / VM3090PLUS / VL5060PLUS
VL5080PLUS / VL5090PLUS

Grape Harvester

Part number 47698613A
English
July 2013

NEW HOLLAND
AGRICULTURE

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CONNECTOR X509 - MODULE ICM CN1B

CONNECTOR X509 - MODULE ICM CN1B			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	5900 (BK)		**Wire harnesses - Electrical schematic sheet 01 (55.100)**
2	5301 (OR)		**Wire harnesses - Electrical schematic sheet 01 (55.100)**
3	5302 (OR)		**Wire harnesses - Electrical schematic sheet 01 (55.100)**
4	5200B (RD)		**Wire harnesses - Electrical schematic sheet 01 (55.100)**
5	5017 (WH)		**Wire harnesses - Electrical schematic sheet 02 (55.100)**
6			
7	5008 (GN)		**Wire harnesses - Electrical schematic sheet 02 (55.100)**
8			
9			
10			
11	5305 (OR)		**Wire harnesses - Electrical schematic sheet 02 (55.100)**
12	5002 (YE)		**Wire harnesses - Electrical schematic sheet 01 (55.100)**
13	5001 (GN)		**Wire harnesses - Electrical schematic sheet 01 (55.100)**
14			
15			
16			
17	5015 (YE)		**Wire harnesses - Electrical schematic sheet 02 (55.100)**
18	5013 (WH)		**Wire harnesses - Electrical schematic sheet 02 (55.100)**
19			
20			
21	5003 (YE)		**Wire harnesses - Electrical schematic sheet 01 (55.100)**
22	5010 (YE)		**Wire harnesses - Electrical schematic sheet 02 (55.100)**
23			
24			
25	5009 (GN)		**Wire harnesses - Electrical schematic sheet 02 (55.100)**
26	5011 (WH)		**Wire harnesses - Electrical schematic sheet 02 (55.100)**
27			
28			
29	5901 (BK)		**Wire harnesses - Electrical schematic sheet 01 (55.100)**
30			
31			
32			
33			
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NOTE: *For the wiring colour code refer to* ***Electrical system - Electrical standard (55.000).***

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- Next, switch to manual mode. Then check that the engine speed varies properly between **1050 RPM** (**1050 RPM**) and **2500 RPM** (**2500 RPM**) (to +/- **50 RPM** (**50 RPM**)) with the potentiometer.
- If the engine does not reach the above values successfully (to +/- **40 RPM** (**40 RPM**)), restart a calibration.

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E0061-14-Injection Control Module (ICM) system failure - special instruction

Control Module : Injection Control Module (ICM)

NOTE: *When the cause of the error code has been rectified, clear the error code and test the system for normal operation.*

NOTE: *If a repair, adjustment or component is replaced, the Injection Control Module (ICM) calibration procedures must be carried out. Refer to* ***Injection control - H1 - Calibration procedures (55.010)****.*

Context:
If this fault code is present, it will not be possible to extend or retract the engine speed actuator.

Cause:
The ICM has detected a current greater than **800 mA** for **300 ms** at either the ICM connector **X509** pin 5, wire 5017 (WH) or the ICM connector **X508** pin 5, wire 5019 (WH) from the engine speed actuator.

Possible failure modes:

1. Faulty connector
2. Faulty wiring harness
3. Faulty engine speed actuator
4. Faulty ICM calibration
5. Faulty ICM

Solution:

1. Verify the fault code is still present.
   Using the Electronic Service Tool (EST), record all the fault codes present. Clear the fault codes and check for correct operation of the machine.

   A. If the fault code is still present, continue to step **2**

   B. If the fault code is not present, the fault may be intermittent. Operate the machine and check for an intermittent fault.

2. Inspect the engine speed actuator condition.
   Visually inspect the engine speed actuator condition, checking for security, damage, contamination and blockages.

   A. If the engine speed actuator is insecure, damaged, contaminated or operation blocked, repair the fault. Clear the fault and check for correct operation of the machine.

   B. If there is no visual fault with the engine speed actuator, continue to step **3**

3. Check the engine speed actuator.
   Turn the ignition key switch "OFF". Disconnect the engine speed actuator connector **X504**. Use a multimeter to measure the resistance across the component side of connector **X504** pins D and E.

   A. If the resistance indicated is not approximately **5 Ω**, remove and replace the engine speed actuator. Clear the fault codes, carry out the calibration procedures and check for correct operation of the machine.

   B. If resistance indicated is approximately **5 Ω**, continue to step **4**

4. Carry out the ICM calibration procedures.
   Connect the connector **X504**. Calibrate the potentiometers, Multi-Function Handle (MFH) and the engine speed actuator. Refer to **Injection control - H1 - Calibration procedures (55.010)**. Clear the fault codes and operate the machine.

   A. If the calibration procedures fail, or the fault code is still present, continue to step **5**

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Injection control - H1 - Calibration procedures

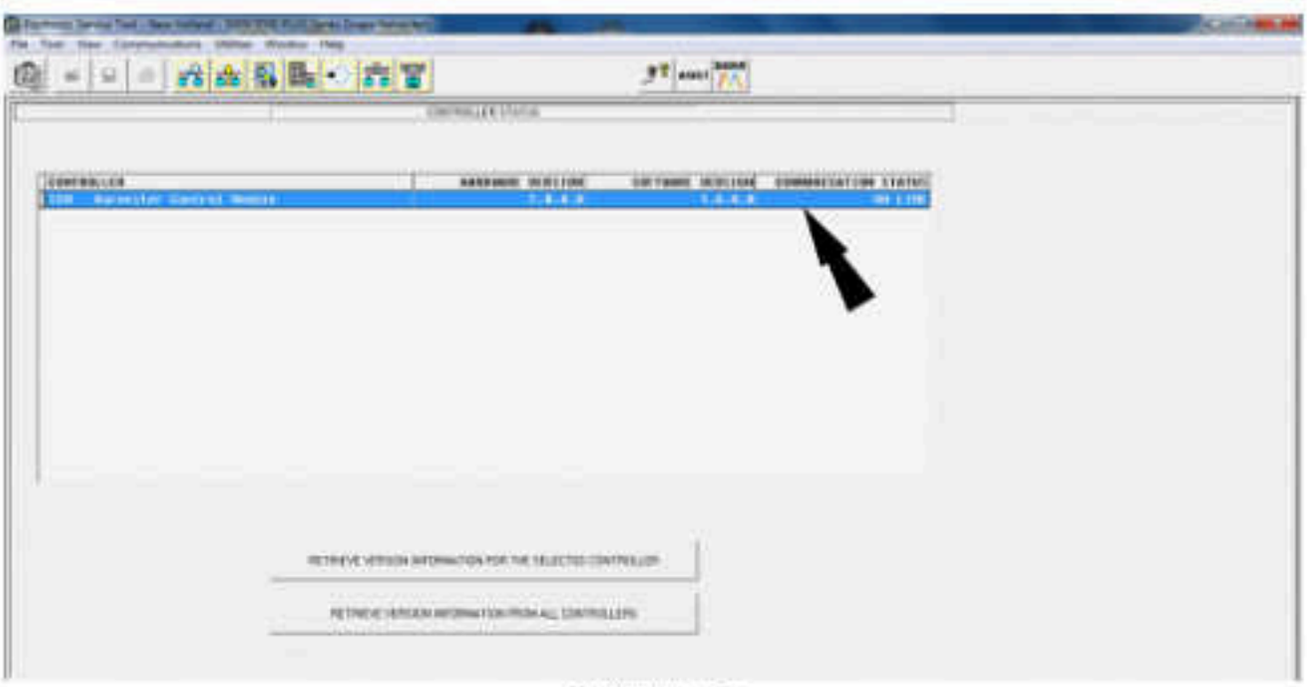
Load software in the ICM module

1. Start the **EST** software.



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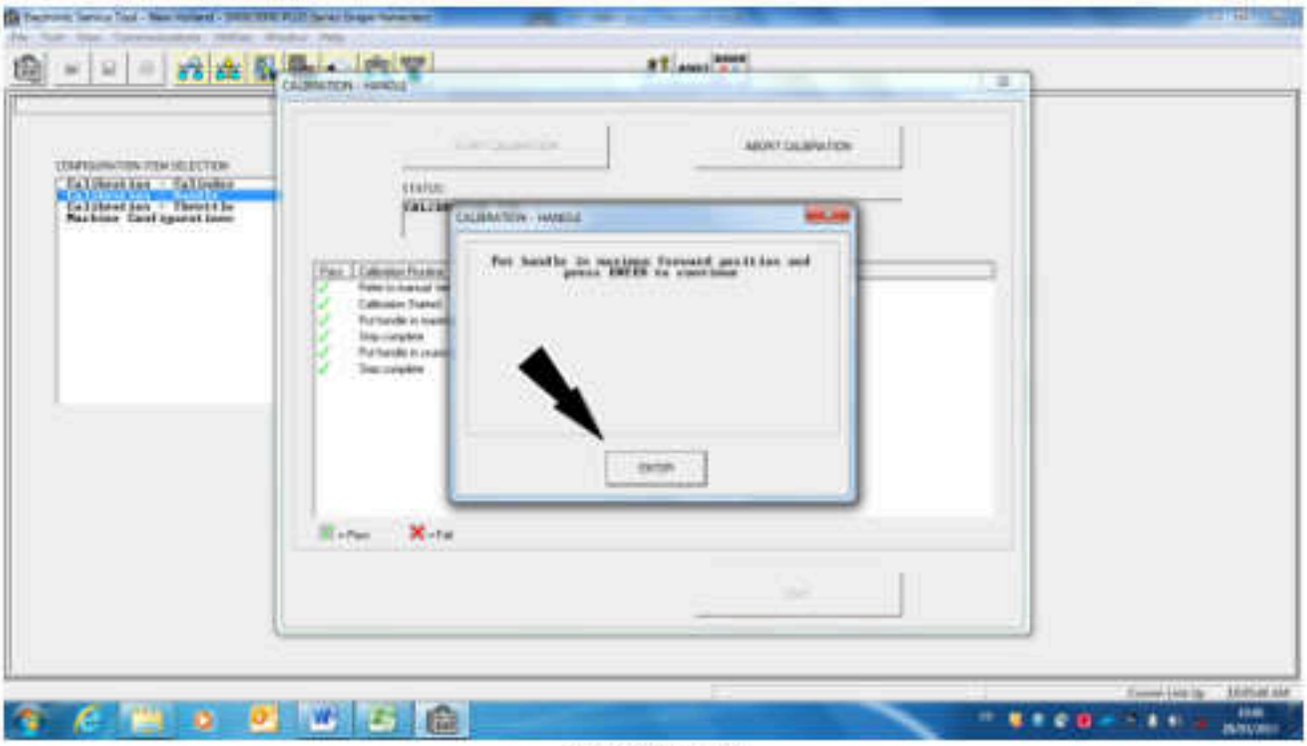
2. Connect the **EST** box to the machine and to the computer.
3. Turn the ignition key switch ON.
4. After a few seconds, check that the communication status is "online".



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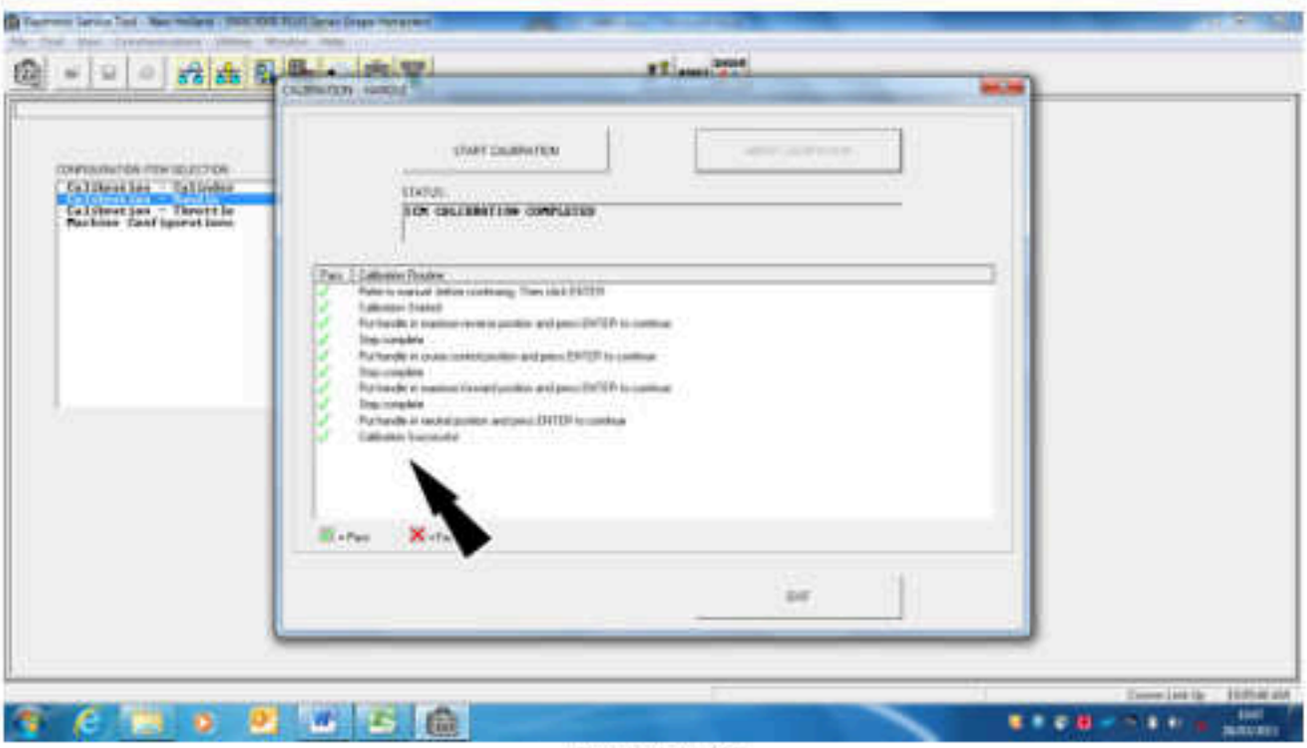
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40. Click on "ENTER".



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41. If the calibration is successful, the message "Calibration Successful" will appear.



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