# SERVICE MANUAL

## 9090X / 9090X GE / 9090X H / 9090X O / 9090X COFFEE / 9090X OLIVE PLUS / 9090X OLIVE PLUS GE

Grape Harvester

**Part number 47914333**
1st edition English
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(*) See content for specific models




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| ERROR | DESCRIPTION<br>SH side clamshell<br>GE export) | |
|---|---|---|
| 0335 | **Opti-grape™** harness | **Wiring harnesses - Electrical schematic sheet 67 (55.100)** |
| 1051 | Harness Main | **Wiring harnesses - Electrical schematic sheet 43 (55.100)** |
| 1061 | Harness Main | **Wiring harnesses - Electrical schematic sheet 02 (55.100)** |
| 1066 | Armrest/lever harness | **Wiring harnesses - Electrical schematic sheet 07 (55.100)** |
| 1067 | Console harness | **Wiring harnesses - Electrical schematic sheet 30 (55.100)** |
| 1136 | Cab canopy harness | **Wiring harnesses - Electrical schematic sheet 37 (55.100)** |
| 1137 | Cab canopy harness | **Wiring harnesses - Electrical schematic sheet 37 (55.100)** |
| 1150 | Harness Main | **Wiring harnesses - Electrical schematic sheet 43 (55.100)** |
| 1201 | Cab harness | **Wiring harnesses - Electrical schematic sheet 21 (55.100)** |
| 1208 | Cab harness | **Wiring harnesses - Electrical schematic sheet 21 (55.100)** |
| 1230 | Engine harness | **Wiring harnesses - Electrical schematic sheet 27 (55.100)** |
| 1251 | Harness Main | **Wiring harnesses - Electrical schematic sheet 43 (55.100)** |
| 2008 | Harness Main | **Wiring harnesses - Electrical schematic sheet 14 (55.100)** |
| 2009 | Harness Main | **Wiring harnesses - Electrical schematic sheet 14 (55.100)** |
| 2042 | Harness for shaker speed reduction on concrete poles (RSPB) kit | **Wiring harnesses - Electrical schematic sheet 06 (55.100)** |
| 3017 | Harness Main | **Wiring harnesses - Electrical schematic sheet 54 (55.100)** |
| 3020 | Harness Main | **Wiring harnesses - Electrical schematic sheet 15 (55.100)** |
| 3024 | Harness Main | **Wiring harnesses - Electrical schematic sheet 15 (55.100)** |
| 3027 | Engine harness | **Wiring harnesses - Electrical schematic sheet 24 (55.100)** |
| 3028 | Harness Main | **Wiring harnesses - Electrical schematic sheet 15 (55.100)** |
| 3051 | Harness Main | **Wiring harnesses - Electrical schematic sheet 15 (55.100)** |
| 3056 | Screen/armrest harness | **Wiring harnesses - Electrical schematic sheet 10 (55.100)** |
| 7007 | Armrest/lever harness | **Wiring harnesses - Electrical schematic sheet 07 (55.100)** |
| 7008 | Armrest/lever harness | **Wiring harnesses - Electrical schematic sheet 07 (55.100)** |
| 7009 | Screen/armrest harness | **Wiring harnesses - Electrical schematic sheet 08 (55.100)** |
| 7010 | Screen/armrest harness | **Wiring harnesses - Electrical schematic sheet 08 (55.100)** |
| 7015 | Screen/armrest harness | **Wiring harnesses - Electrical schematic sheet 09 (55.100)** |
| 7016 | Screen/armrest harness | **Wiring harnesses - Electrical schematic sheet 09 (55.100)** |



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# E0130-04-GCM2 - 8 V, short circuit to a weak source, earth

| | |
|---|---|
| 9000 X | NA |

## Control Module : GCM2

***NOTE:*** *The diagnostic function on the monitor can be used to facilitate troubleshooting the electrical circuit. For more information, refer to* ***Instrument cluster - Detailed view (55.408)****.*

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

**Cause:**
The controller has detected an incorrect reference voltage of **8 V**.

**Possible failure modes:**

1. Faulty sensor
2. Faulty harness
3. Faulty controller

**Solution:**

1. Before continuing, delete the error code using the approved diagnostic equipment. Operate the machine under normal conditions and test again.
   A. If the error code is not shown, check that the system is working properly.
   B. If the error code is displayed, proceed to step **2**
2. Check to see if other error codes are displayed.
   A. If other error codes are displayed, carry out the tests for the code(s).
   B. If no other error code is displayed, download the correct version of the software. If the fault recurs, remove and replace the controller.



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# E0417-05-Left shaker frame unlocking, circuit disconnected,

| | |
|---|---|
| 9000 X | NA |

## Control Module : GCM3

**Cause:**
The circuit for valve L045 for controlling the unlocking of the shaker left-hand half-frame (9090X) has an open circuit or short circuit to low source.

**Possible failure modes:**

1. The valve supply wiring is open or has shorted to earth.
2. Defective solenoid.
3. Module internal failure (internal adjuster failure).
   This code only appears when the corresponding GCM3 output is positive. (When the valve is controlled).

**Solution:**

1. Use the display monitor diagnostic capability to view the status of the parameters (see **Instrument cluster - Detailed view (55.408)**, if necessary), and manually supply the circuit.

   ***NOTE:*** *Visually inspect the wiring harness and connectors. Check the connector is correctly fitted. Inspect the terminals and wires at the connector for pushed back or corroded terminals or damaged wires. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned.*
2. Disconnect connector **X537** from the valve on the hydraulic block. Use a multimeter to check the resistance of the solenoid between pins 1 and 2 corresponding to the two terminals on the coil. The proper resistance range is **6.0 - 8.0 Ω**.

   A. No continuity, or continuity is found but without resistance, replace the solenoid.

   B. If the solenoid meets specifications, proceed to step **3**
3. With the ignition off, disconnect connector **X303** on the GCM3 module and install a jumper wire between pin 1 of connector **X303** on the main harness side and the chassis earth. Use a multimeter to check for continuity between connector **X537** pin 1 on the harness side and the chassis earth.

   A. No continuity is found; the open is in one of the harnesses. proceed to step **6**

   B. If there is continuity, proceed to step **4**.
4. Use a multimeter to check for continuity between pin 2 of connector **X537** and the chassis earth.

   A. No continuity is found; the open is in either the main harness or the harvesting equipment harness proceed to step **5**

   B. If continuity to earth is found, proceed to step **9**
5. Disconnect connector **X402** between the main harness and the harvester harness. Use a multimeter to check for continuity between pin 8 of connector **X402** on the main harness side and the chassis earth.

   A. No continuity is found; the open is in the main harness on wire 9074 between pin 8 of connector **X402** and general earth connector **X056D**. Locate the open circuit and make the necessary repairs.

   B. If there is continuity to earth, the open circuit is in the harvesting equipment harness on black wire 9074 between pin 8 of connector **X402** and pin 2 of connector **X537**. Locate the open circuit and make the necessary repairs.
6. Disconnect connector **X402** between the main harness and the harvester harness. Use a multimeter to check for continuity between pin 1 of connector **X402** and chassis earth.

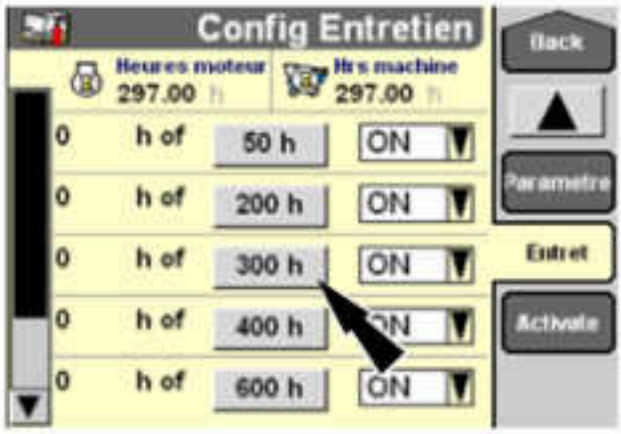
   A. No continuity is found; the open is in the main harness on white wire 0053 between pin 1 of connector **X402** and pin 1 of connector **X303**. Locate the open circuit and make the necessary repairs.



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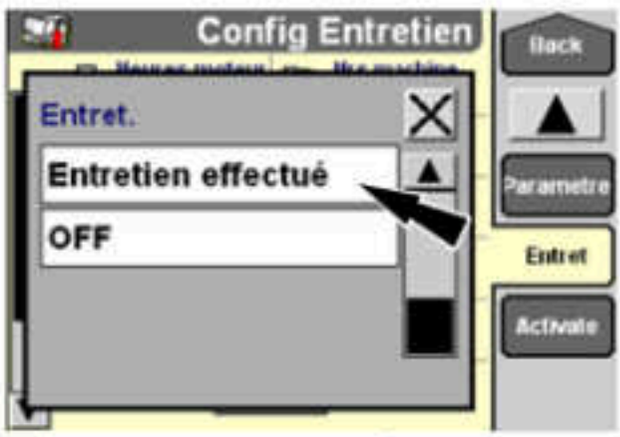
## What you need to do

When the "heures moteur" (engine hours) meter displays that a maintenance operation is due, you should indicate on the monitor that the operation has been carried out.
In the example shown opposite, the meter displays **299.28 h**.
After having carried out the operations relating to the **300 h** servicing interval, indicate on the meter that the operation has been completed.
Select the corresponding checkbox on the meter.




ENTRETIEN_1 7

Using the scroll bar, select "Service done"



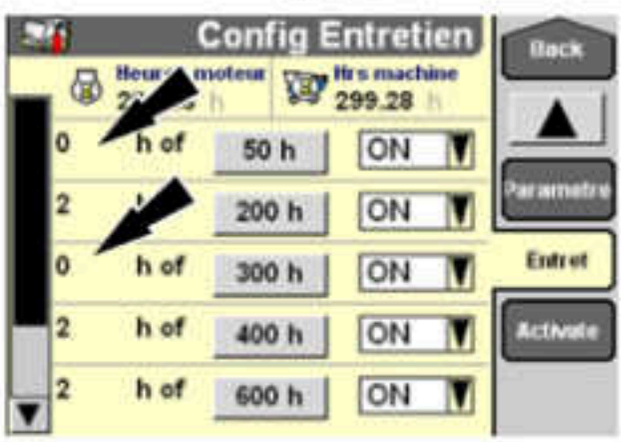

ENTRETIEN_4 8

Confirm the counter zero reset by pressing "YES"




ENTRETIEN_3 9

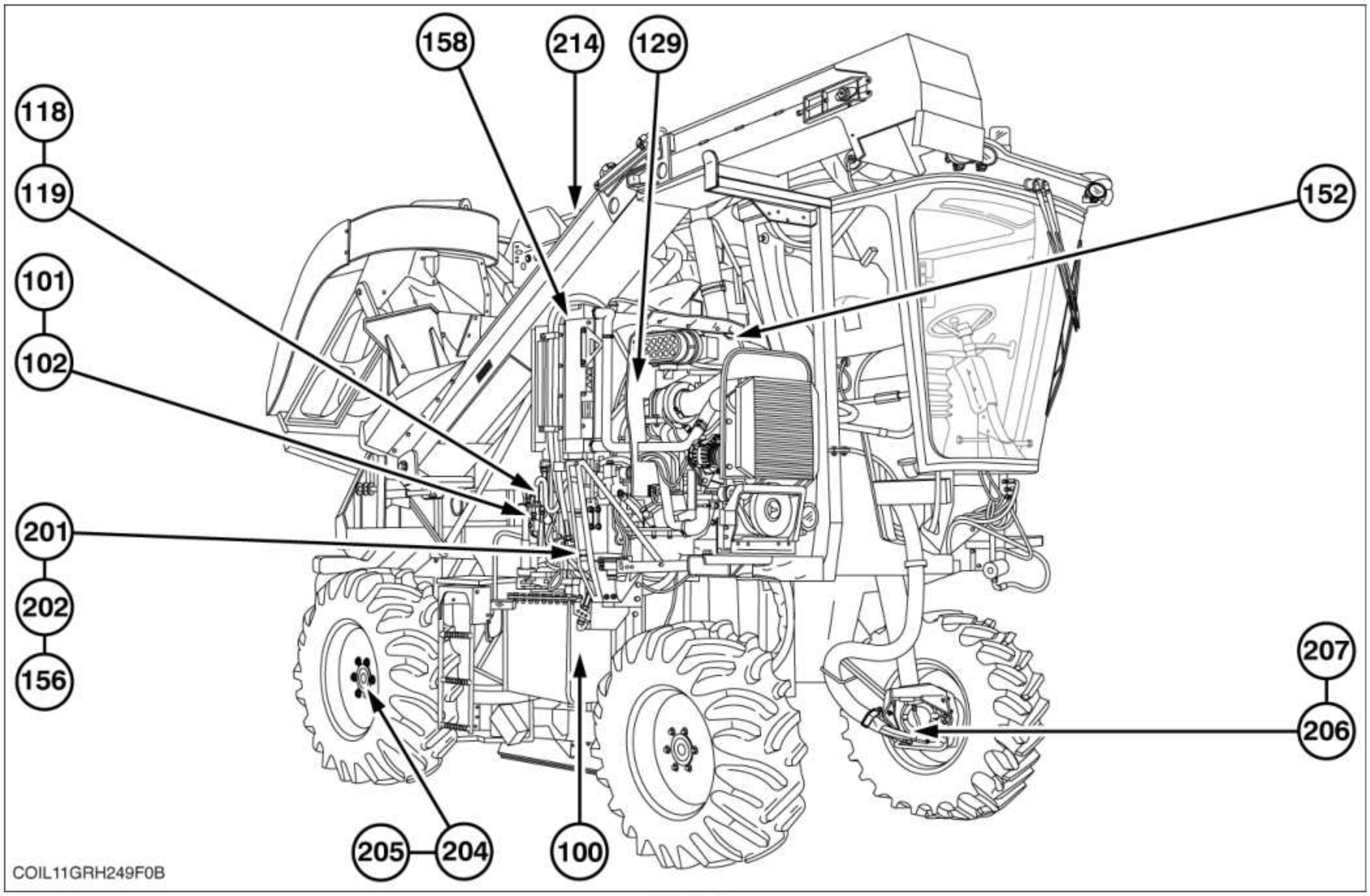
Also confirm the **50 h** servicing interval meter.
The **50 h** and **300 h** meters are reset to 0. The automatic reminder will operate for these two meters.
Configure the other meters as quickly as possible to receive an automatic reminder for all servicing intervals on your machine.




ENTRETIEN_6 10



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