# 570N EP
# Tier 4B (final)
# Tractor Loader

# SERVICE MANUAL

**Part number 47821917**
1st edition English
April 2015

CASE CONSTRUCTION

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# Power shuttle transmission - Exploded view

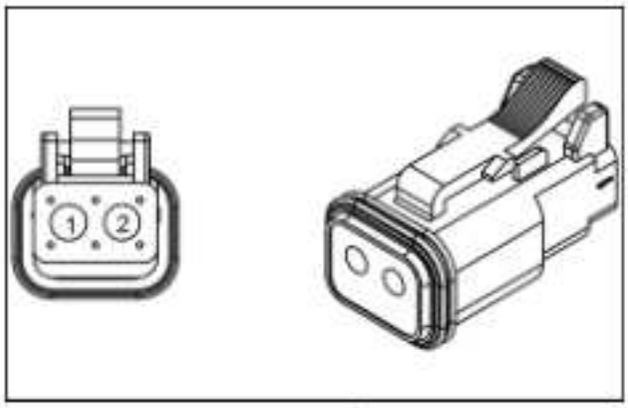
| | |
|---|---|
| 1. Nut (2) 90-100 NM (67 - 73 lb-ft) | 8. Backing plate |
| 2. Transmission | 9. Cap screw (4) 52-57 NM (38-42 lb-ft) |
| 3. Bolt (12) 52-57 NM (67-73 lb-ft) | 10. Bolt (4) 52-57 NM (38 - 42 lb-ft) |
| 4. Dipstick tube | 11. Nut 90-100 NM (67 - 73 lb-ft) |
| 5. Converter | 12. Rubber transmission mount (2) |
| 6. Flex plate with caged nut | 13. Constant torque clamp (4) 5.6 - 7.9 NM (50 - 50 in-lb) |
| 7. Flex plate | |



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***CONNECTOR X-078 - 4WD***

| CONNECTOR X-078 - 4WD | | | |
|---|---|---|---|
| **PIN NUMBER** | **WIRE NUMBER** | **CIRCUIT REFERENCE** | **ELECTRICAL SCHEMATIC FRAME** |
| 1 | 25E4 (WH) | 4WD | **Wiring harnesses - Electrical schematic sheet 06 (55.100)** |
| 2 | G029 (BK) | 4WD SOLENOID GROUND | **Wiring harnesses - Electrical schematic sheet 06 (55.100)** |

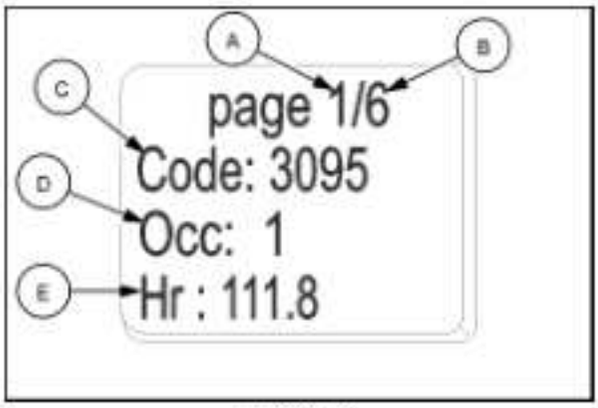



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3. Press ENTER to view faults.




| | | | |
|---|---|---|---|
| **(A)** | Fault Number | **(D)** | Number of occurrences of this fault |
| **(B)** | Number of faults | **(E)** | The hour reading on the machine of the last occurrence |
| **(C)** | Fault code | | |

4. The screen will automatically scroll to the next fault.
5. Press the ESCAPE key to return.
6. Fault Code Grouping

| | |
|---|---|
| **(1)** | 1000 to 1999 vehicle errors. |
| **(2)** | 2000 to 2999 not used. |
| **(3)** | 3000 to 3999 engine errors. |
| **(4)** | 4000 to 4999 not used. |
| **(5)** | 5000 to 5999 not used. |
| **(6)** | 6000 to 6999 not used. |
| **(7)** | 7000 to 7999 not used. |
| **(8)** | 8000 to 8999 not used. |
| **(9)** | 9000 to 9999 internal AIC errors. |



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speed Remove the sensor. The sensor is submerged in oil, care should be taken when removing the sensor so minimal fluid is lost. Inspect the sensor for damage Remove all metal shaving from the sensor.

A. The sensor is free of damage. Reinstall the speed sensor. Go to step **4**.

B. The sensor is damaged. Replace the sensor. Return to step **1** to confirm elimination of fault.

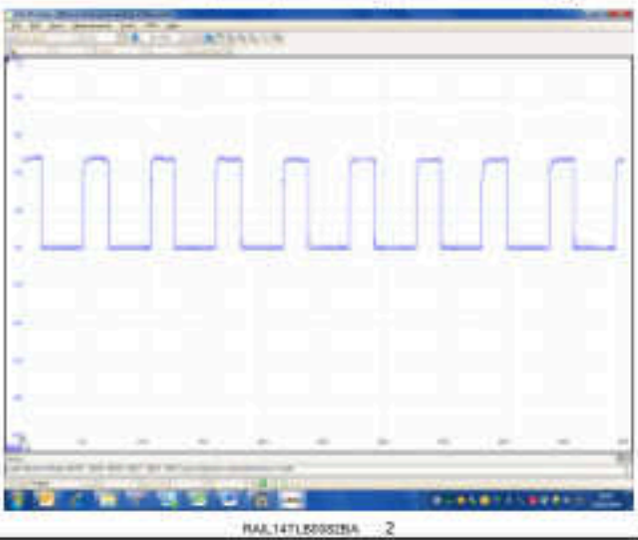
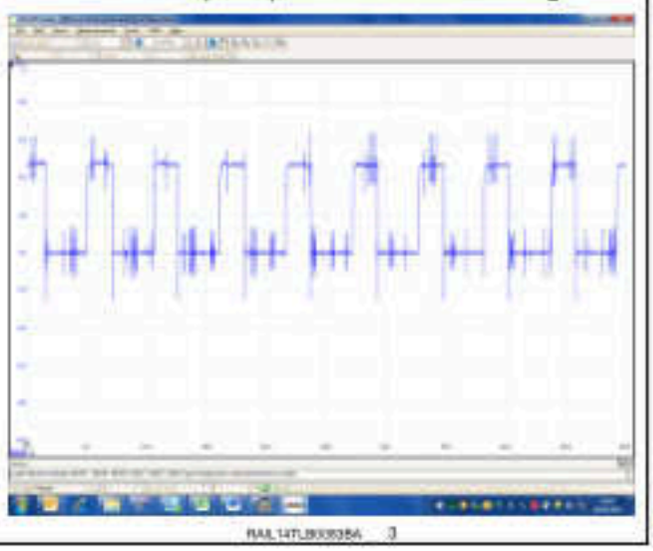
4. Measure the sensor signal.

Turn the ignition switch OFF.

Reinstall the sensor. Disconnect the sensor from the harness.

Start the engine.

Use the DATAR oscilloscope function to monitor the sensor signal.

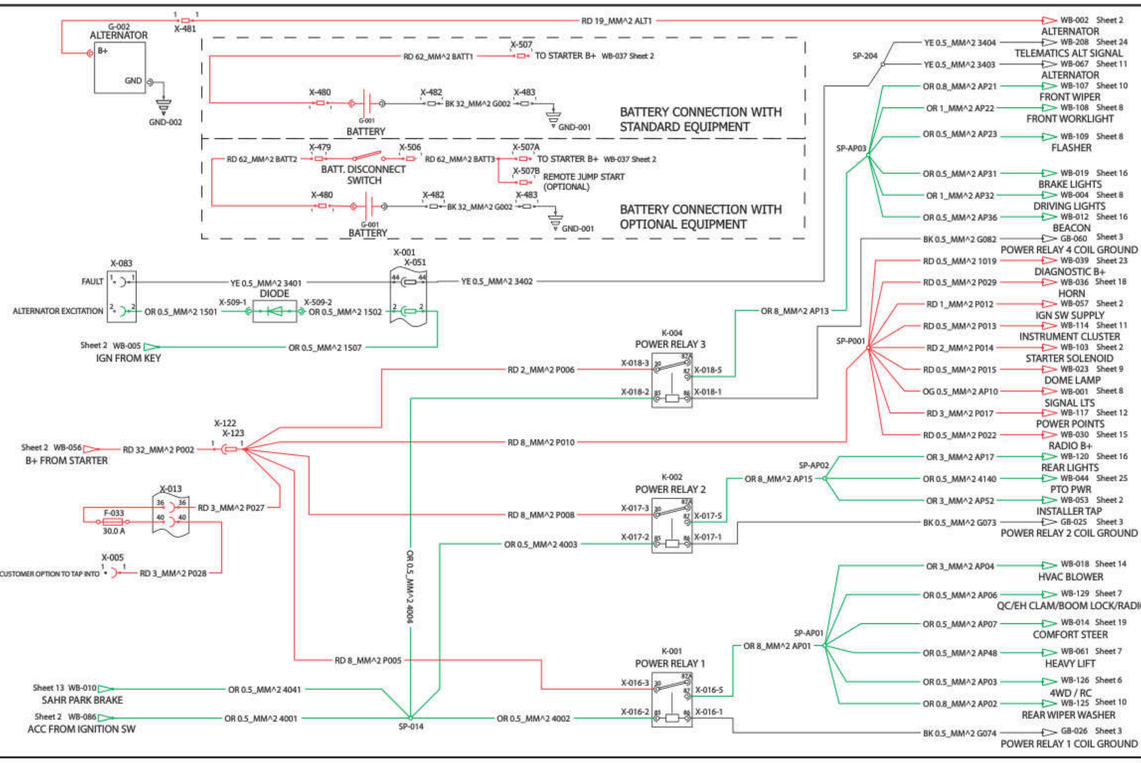
| DATAR oscilloscope capture of a good sensor signal. | DATAR oscilloscope capture of a bad sensor signal. |
|---|---|
|  |  |

A. The data capture of sensor signal is good. Install the latest software in the VCM. Recturn to step **1** to confirm elimination of the fault.

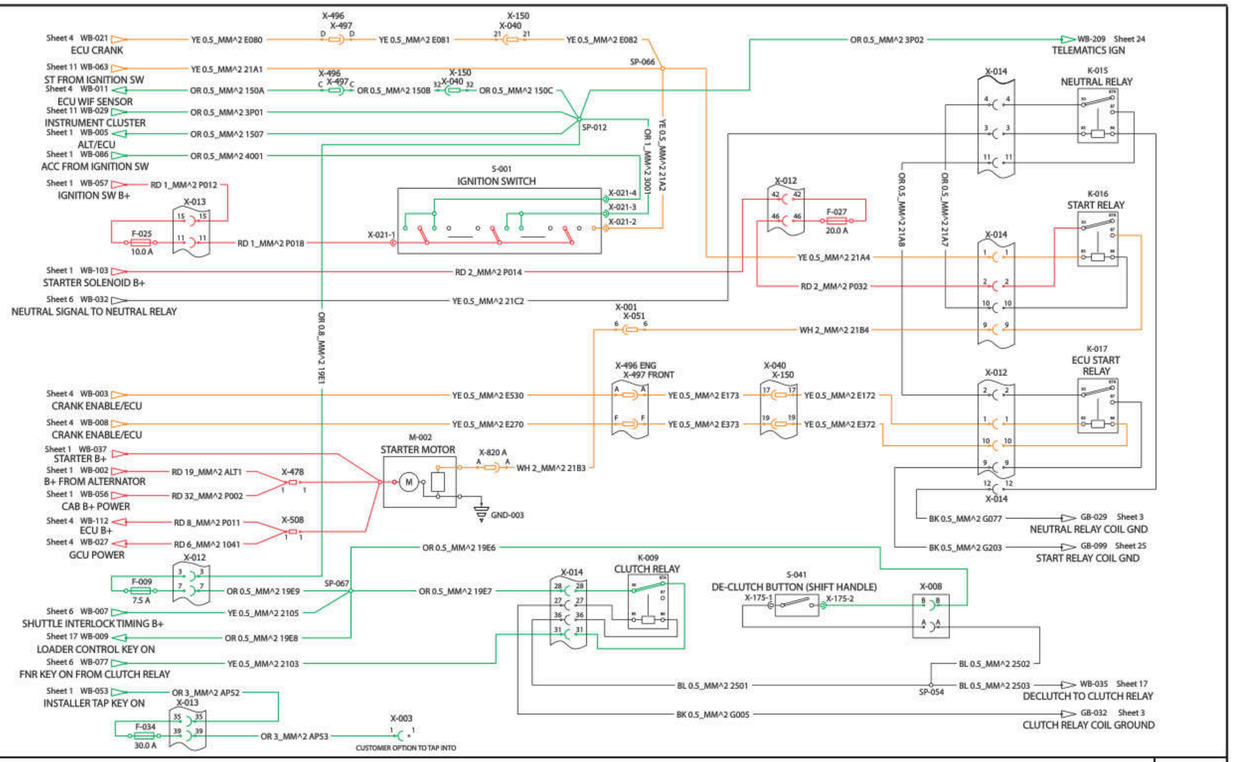
B. The data capture of the sensor signal is bad. There is a problem in the wiring to the sensor. Repair as required. Return to step **1** to confirm elimination of the fault.



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POWER DISTRIBUTION / CHARGING SYSTEM | 1




STARTING SYSTEM | 2




GROUNDING | 3




ENGINE CONTROL | 4

| SHEET | DESCRIPTION | SHEET | DESCRIPTION | SHEET | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | POWER DISTRIBUTION - CHARGING | 10 | WIPERS AND WASHERS | 19 | COMFORT STEER - RIDE CONTROL |
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| 4 | ENGINE CONTROL | 13 | SAHR PARK BRAKE | 22 | CANOPY |
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| 9 | INTERIOR LIGHTS | 18 | HORN | | |

## LEGEND

INDICATES CONSTANT POWER 12V

INDICATES POWER WHEN KEY SWITCH IS ON

INDICATES POWER WHEN KEY SWITCH IS IN START POSITION

## COLOR ABBREVIATIONS

| ABBREVIATION | COLOR |
|---|---|
| BK | BLACK |
| BK\WH | BLACK\WHITE |
| BL | BLUE |
| BR | BROWN |
| GN | GREEN |
| GY | GRAY |
| LB | LIGHT BLUE |
| LG | LIGHT GREEN |
| OR | ORANGE |
| PK | PINK |
| RD | RED |
| TN | TAN |
| VT | VIOLET |
| WH | WHITE |
| YE | YELLOW |

# TRACTOR LOADER 55 kW
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# ELECTRICAL SCHEMATIC

SHEET 1 SIDE 1

Additional copies of this schematic can be ordered through Technical Publications Distribution System. Part # RAC 47736520


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