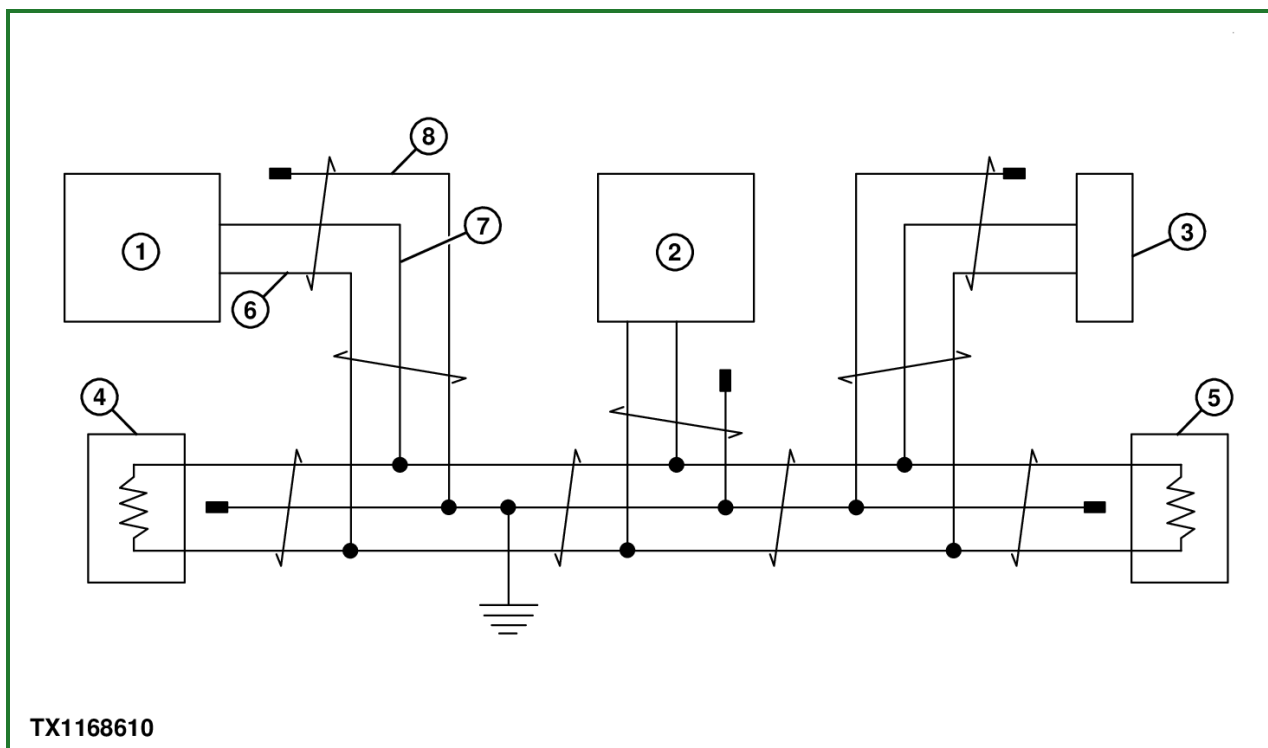


**TX1207165-UN: Engine Controller Area Network (CAN) Circuit Schematic (4TNV86CT and 4TNV86CHT engines only)**

**LEGEND:**

- A5500 - Engine Control Unit (ECU)
- R5606 - Engine CAN Termination Resistor
- W3 - Main Harness
- W21 - Engine Harness
- X5058 - Main Harness-to-Engine Harness Connector 2
- X5502 - Engine Control Unit (ECU) 94-Pin Connector 2
- Y5400 - Exhaust Gas Recirculation (EGR) Valve



**TX1168610**

**TX1168610-UN: Generic CAN Circuit Schematic**

**LEGEND:**

- 1 - Controller 1
- 2 - Controller 2
- 3 - Service ADVISOR™ Connector
- 4 - Termination Resistor 1
- 5 - Termination Resistor 2
- 6 - CAN High Wire (yellow)
- 7 - CAN Low Wire (green)
- 8 - Grounded Shield Wire (black)

For more information, see [Controller Area Network \(CAN\) Theory of Operation](#) . (Group 9015-15.)

## Controller Area Network (CAN) Diagnostics

### 1 System Check

**Action:**

Switched power ON.

Locate the Service ADVISOR™ connector and establish machine connection. See [Service ADVISOR™ Connection Procedure](#) . (Group 9015-20.)

Does Service ADVISOR establish a connection?

**Record of Actual Results:****Result:****YES:**

Go to next step in this check.

**NO:**

Go to Service ADVISOR™ Fuse Test.

**Action:**

Do all controllers show up under connected controllers?

**Record of Actual Results:****Result:****YES:**

Go to [CAN Termination Resistor Check](#) .

**NO:**

Go to next step in this check.

**Action:**

Is Service ADVISOR able to connect to any machine controllers?

**Record of Actual Results:**