

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

9. CAN Communication Circuit Check

A: PROCEDURE

Step	Check	Yes	No
1 CHECK FROM DATA LINK CONNECTOR. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Is the resistance 10 Ω or less?	Check for ground short. <Ref. to LAN(diag)-14, GROUND SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.>	Go to step 2.
2 CHECK FROM DATA LINK CONNECTOR. 1) Turn the ignition switch to ON. 2) Using the tester, measure the voltage between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Is the voltage 5 V or less?	Go to step 3.	Check for battery short. <Ref. to LAN(diag)-16, BATTERY SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.>
3 CHECK FROM DATA LINK CONNECTOR. 1) Turn the ignition switch to OFF. 2) Using the tester, measure the voltage between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — No. 14:</i>	Is the voltage 55 Ω or less?	Perform the inspection for 55 Ω or less. <Ref. to LAN(diag)-20, 55 Ω OR LESS, INSPECTION, CAN Communication Circuit Check.>	Go to step 4.
4 CHECK FROM DATA LINK CONNECTOR. Using the tester, measure the voltage between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — No. 14:</i>	Is the voltage 65 Ω or more?	Perform the inspection for 65 Ω or more. <Ref. to LAN(diag)-22, 65 Ω OR MORE, INSPECTION, CAN Communication Circuit Check.>	A related line may be open. Perform the inspection for 56 — 64 Ω relevant to the detected DTC. <Ref. to LAN(diag)-13, LIST, CAN Communication Circuit Check.>

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B: LIST

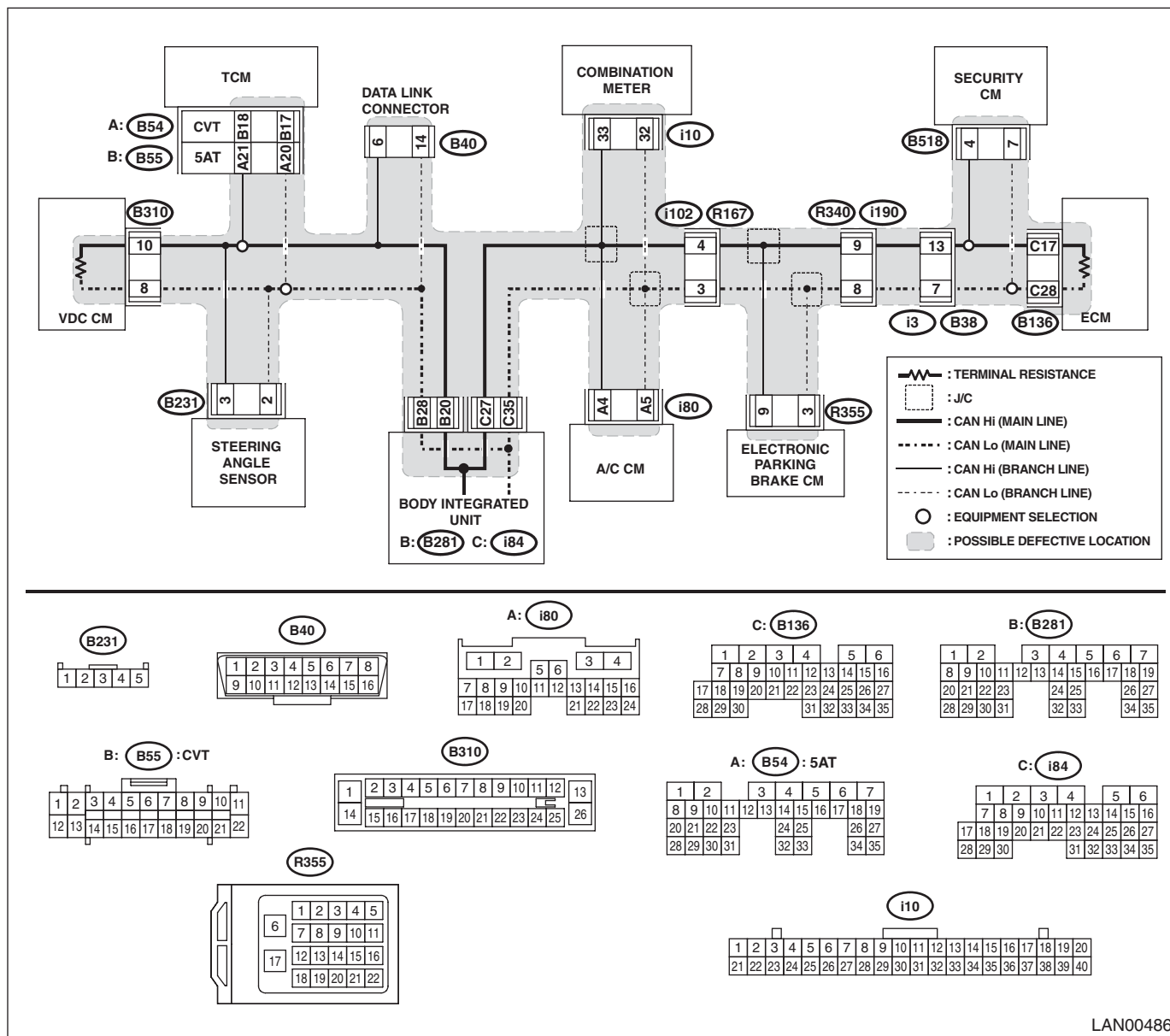
Resistance value between CAN Hi And Lo	Contents of inspection	Remarks
Ground short inspection	<Ref. to LAN(diag)-14, GROUND SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.>	Shorted to ground in the communication circuit or control module.
Battery short inspection	<Ref. to LAN(diag)-16, BATTERY SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.>	Shorted to battery power supply in the communication circuit or control module.
56 — 64 Ω	<Ref. to LAN(diag)-18, 56 — 64 Ω , INSPECTION, CAN Communication Circuit Check.>	Combined resistance of end resistance does not have malfunction; short to ground or +B short of the CAN communication circuit is possible, however.
55 Ω or less	<Ref. to LAN(diag)-20, 55 Ω OR LESS, INSPECTION, CAN Communication Circuit Check.>	Resistance is lower than combined resistance of end resistance. Short to CAN Hi and CAN Lo on the CAN communication circuit is possible.
65 Ω or more	<Ref. to LAN(diag)-22, 65 Ω OR MORE, INSPECTION, CAN Communication Circuit Check.>	Resistance is higher than combined resistance of end resistance. Open circuit of CAN communication circuit is possible.
56 — 64 Ω (TCM)	<Ref. to LAN(diag)-24, 56 — 64 Ω (TCM), INSPECTION, CAN Communication Circuit Check.>	No TCM data is received. Perform inspection when faulty is detected.
56 — 64 Ω (Steering angle sensor)	<Ref. to LAN(diag)-26, RELATED LINES 56 — 64 Ω (STEERING ANGLE SENSOR), INSPECTION, CAN Communication Circuit Check.>	No other data is received. Perform inspection when faulty is not detected.
56 — 64 Ω (A/C CM)	<Ref. to LAN(diag)-27, 56 — 64 Ω (A/C CM), INSPECTION, CAN Communication Circuit Check.>	No A/C data is received. Perform inspection when faulty is detected.
56 — 64 Ω (Electronic parking CM)	<Ref. to LAN(diag)-28, 56 — 64 Ω (ELECTRONIC PARKING CM), INSPECTION, CAN Communication Circuit Check.>	No EPB data is received. Perform inspection when faulty is detected.
56 — 64 Ω (Combination meter)	<Ref. to LAN(diag)-29, 56 — 64 Ω (COMBINATION METER), INSPECTION, CAN Communication Circuit Check.>	No meter data is received. Perform inspection when faulty is detected.
56 — 64 Ω (Security CM)	<Ref. to LAN(diag)-30, 56 — 64 Ω (SECURITY CM), INSPECTION, CAN Communication Circuit Check.>	No security CM data is received. Perform inspection when faulty is detected.

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C: INSPECTION

1. GROUND SHORT INSPECTION



LAN00486

NOTE:

Main wiring harness or related lines may be shorted to ground, or shorted to ground in one of the control modules.

Step	Check	Yes	No
1	<p>CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. Using the tester, measure the resistance between terminals.</p> <p><i>Connector & terminal</i> (B40) No. 6 — Chassis ground: (B40) No. 14 — Chassis ground:</p>	Is the resistance 10 Ω or less? Go to step 2.	Repair or replace the short circuit of the harness.

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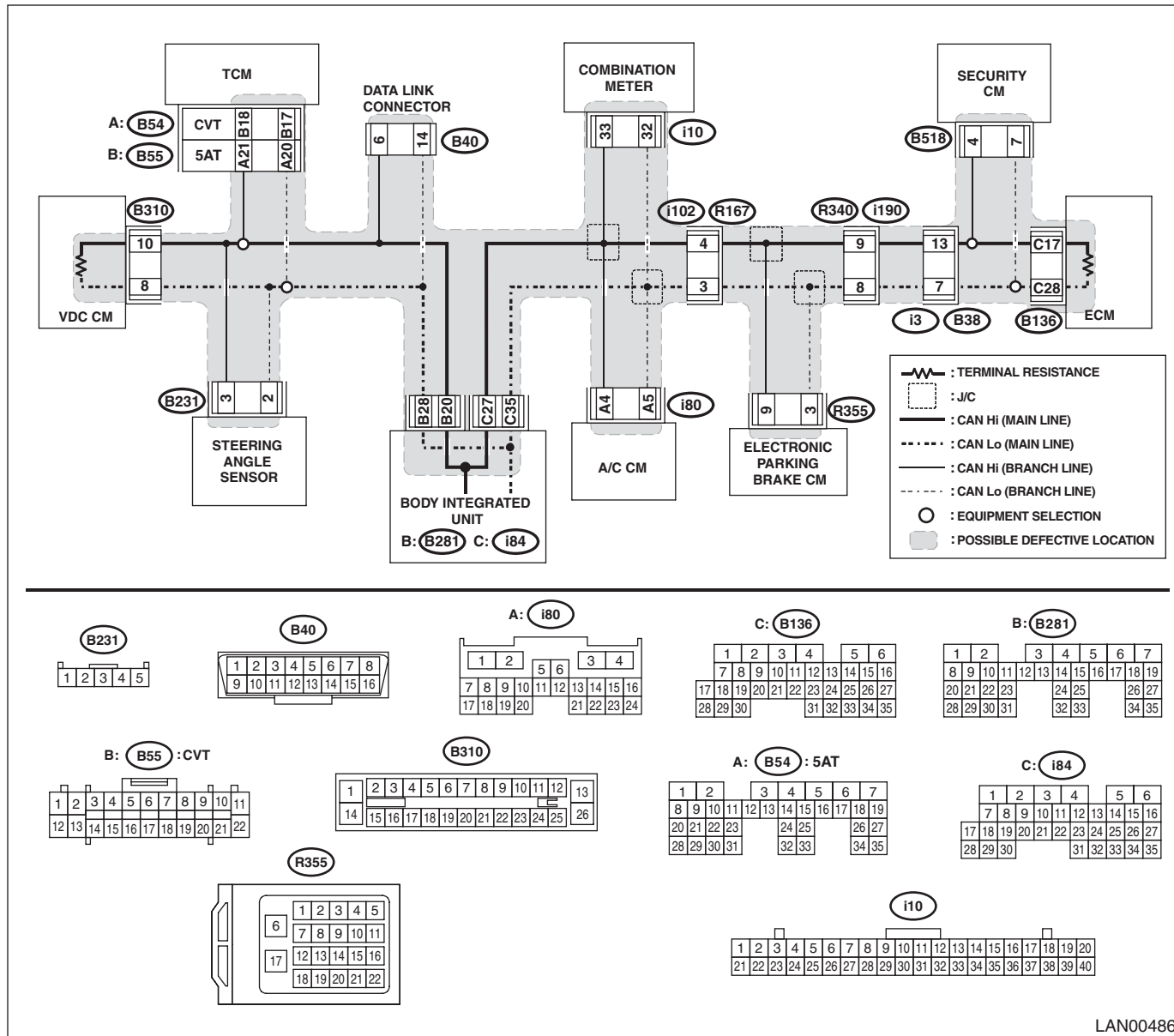
LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>2</p> <p>CHECK CONTROL MODULE. With the tester connected, disconnect control module.</p> <p>NOTE: Disconnect the body integrated unit at the end.</p> <p>Connector & terminal <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i></p>	<p>Did the resistance change to 10 Ω or more?</p>	<p>Replace the control module whose resistance has changed. When the value changed at disconnecting the body integrated unit, go to next. Go to step 3.</p>	<p>Go to step 3.</p>
<p>3</p> <p>CHECK BETWEEN MAIN WIRING HARNESSSES. Using the tester, measure the resistance between terminals.</p> <p>Connector & terminal <i>(i84) No. 27 — Chassis ground:</i> <i>(i84) No. 35 — Chassis ground:</i></p>	<p>Is the resistance 10 Ω or less?</p>	<p>Repair or replace the short circuit of the harness.</p>	<p>Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.></p>

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LAN SYSTEM (DIAGNOSTICS)

2. BATTERY SHORT INSPECTION



LAN00486

NOTE:

Main wiring harness or related lines may be shorted to battery circuit, or shorted to battery circuit in one of the control modules.

Step	Check	Yes	No
<p>1</p> <p>CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS.</p> <p>1) Turn the ignition switch to ON.</p> <p>2) Using the tester, measure the voltage between terminals.</p> <p>Connector & terminal (B40) No. 6 — Chassis ground: (B40) No. 14 — Chassis ground:</p>	<p>Is the resistance 5 V or less?</p>	<p>Currently returned to normal.</p>	<p>Go to step 2.</p>

CAN Communication Circuit Check

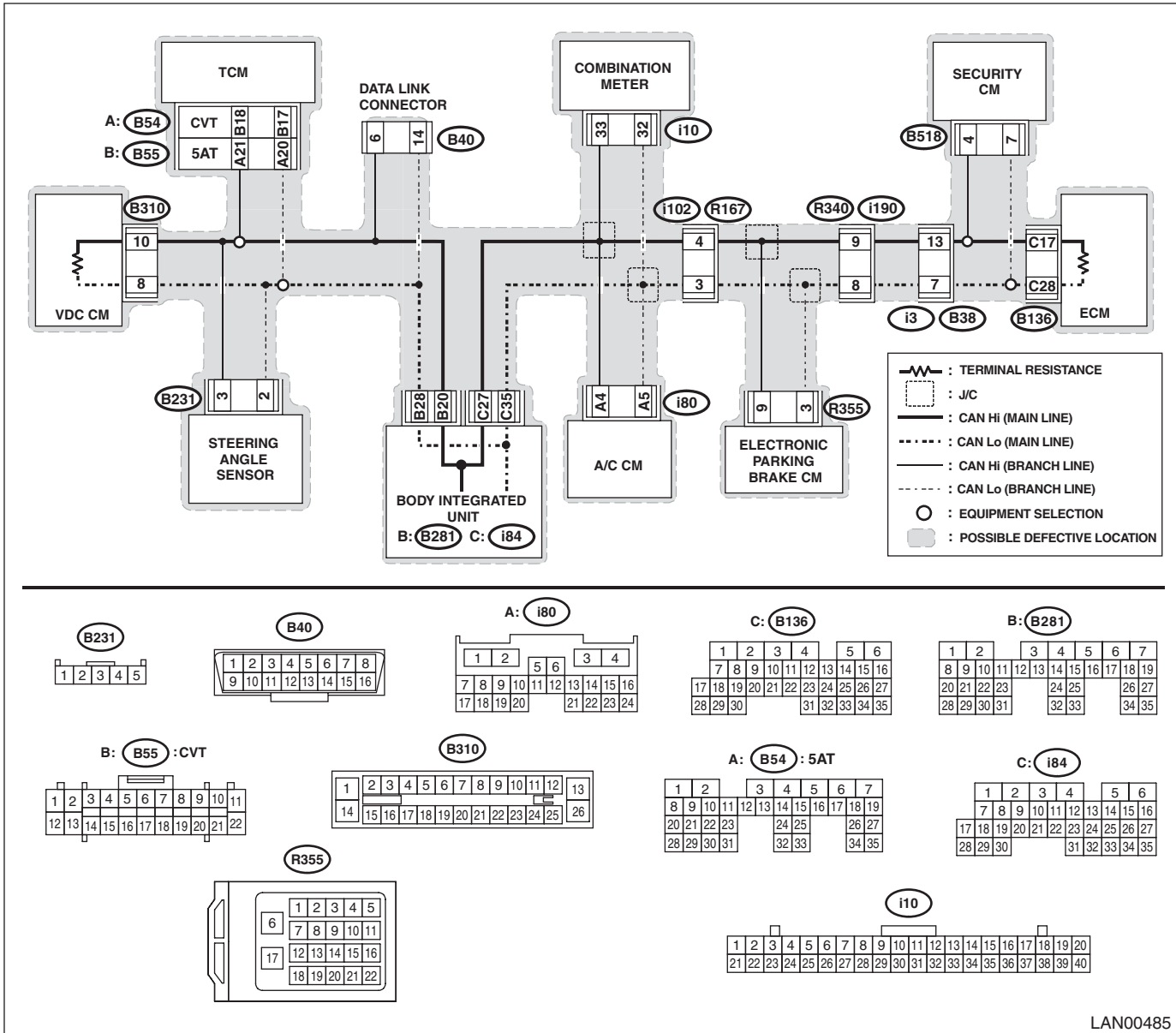
LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>2</p> <p>CHECK CONTROL MODULE. With the tester connected, disconnect control module.</p> <p>NOTE: Disconnect the body integrated unit at the end.</p> <p>Connector & terminal <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i></p>	<p>Did the voltage change to 5 V or less?</p>	<p>Replace the control module whose resistance has changed. When the value changed at disconnecting the body integrated unit, go to next. Go to step 3.</p>	<p>Go to step 3.</p>
<p>3</p> <p>CHECK BETWEEN MAIN WIRING HARNESSSES. Using the tester, measure the resistance between terminals.</p> <p>Connector & terminal <i>(i84) No. 27 — Chassis ground:</i> <i>(i84) No. 35 — Chassis ground:</i></p>	<p>Is the voltage 1 V or less?</p>	<p>Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.></p>	<p>Repair or replace the short circuit of the harness.</p>

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3. 56 — 64 Ω



LAN00485

NOTE:

When the measured resistance value is 56 — 64 Ω, main wiring harness or related lines may be shorted to ground, or shorted to power supply line, or related line may be open.

Step	Check	Yes	No
1	<p>CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. Using the tester, measure the resistance between terminals. Connector & terminal (B40) No. 6 — Chassis ground: (B40) No. 14 — Chassis ground:</p>	Go to step 2.	Go to step 4.

CAN Communication Circuit Check

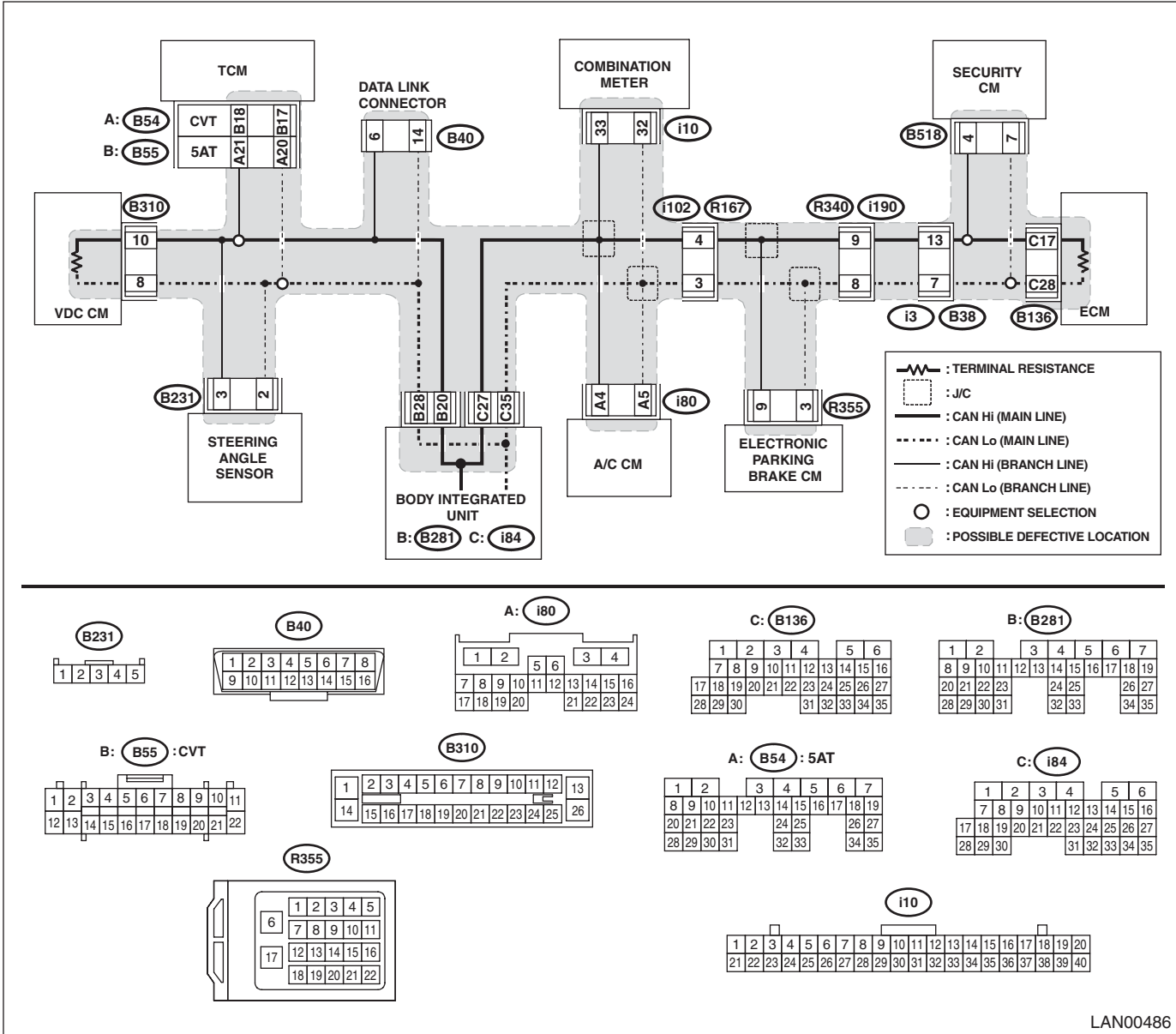
LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>2 CHECK CONTROL MODULE. With the tester connected, disconnect control module.</p> <p>NOTE: Disconnect the body integrated unit at the end.</p> <p>Connector & terminal (B40) No. 6 — Chassis ground: (B40) No. 14 — Chassis ground:</p>	<p>Did the resistance change to 10 Ω or more?</p>	<p>Replace the control module whose resistance has changed. When the value changed at disconnecting the body integrated unit, go to next. Go to step 3.</p>	<p>Repair or replace the short circuit of the harness.</p>
<p>3 CHECK MAIN WIRING HARNESS AND RELATED LINES. Using the tester, measure the resistance between terminals.</p> <p>Connector & terminal (i84) No. 27 — Chassis ground: (i84) No. 35 — Chassis ground:</p>	<p>Is the resistance 10 Ω or less?</p>	<p>Repair or replace the short circuit of the harness.</p>	<p>Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.></p>
<p>4 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Turn the ignition switch to ON. 2) Using the tester, measure the voltage between terminals.</p> <p>Connector & terminal (B40) No. 6 — Chassis ground: (B40) No. 14 — Chassis ground:</p>	<p>Is the voltage 5 V or less?</p>	<p>CAN communication circuit is normal.</p>	<p>Go to step 5.</p>
<p>5 CHECK CONTROL MODULE. With the tester connected, disconnect control module.</p> <p>NOTE: Disconnect the body integrated unit at the end.</p> <p>Connector & terminal (B40) No. 6 — Chassis ground: (B40) No. 14 — Chassis ground:</p>	<p>Did the voltage change to 5 V or less?</p>	<p>Replace the control module whose voltage has changed. When the value changed at disconnecting the body integrated unit, go to next. Go to step 6.</p>	<p>Repair or replace the short circuit of the harness.</p>
<p>6 CHECK HARNESS. Using a tester, measure the voltage between terminals and chassis ground.</p> <p>Connector & terminal (i84) No. 27 — Chassis ground: (i84) No. 35 — Chassis ground:</p>	<p>Is the voltage 5 V or less?</p>	<p>Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.></p>	<p>Repair or replace the short circuit of the harness.</p>

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LAN SYSTEM (DIAGNOSTICS)

4. 55 Ω OR LESS



LAN00486

NOTE:

When the bus line is measured, combined resistance of end resistance (120 Ω) in ECM and end resistance (120 Ω) in VDC CM can be measured. The combined resistance is approximately 56 — 64 Ω. When the measured resistance value is 55 Ω or less, main wiring harness or related lines may be shorted, or combined resistance may have changed because resistance other than end resistance is created on the circuit.

Step	Check	Yes	No
1	<p>CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS.</p> <p>Using the tester, measure the resistance between terminals.</p> <p>Connector & terminal (B40) No. 6 — No. 14:</p>	Is the resistance 10 Ω or less?	Go to step 2.
			Go to step 4.

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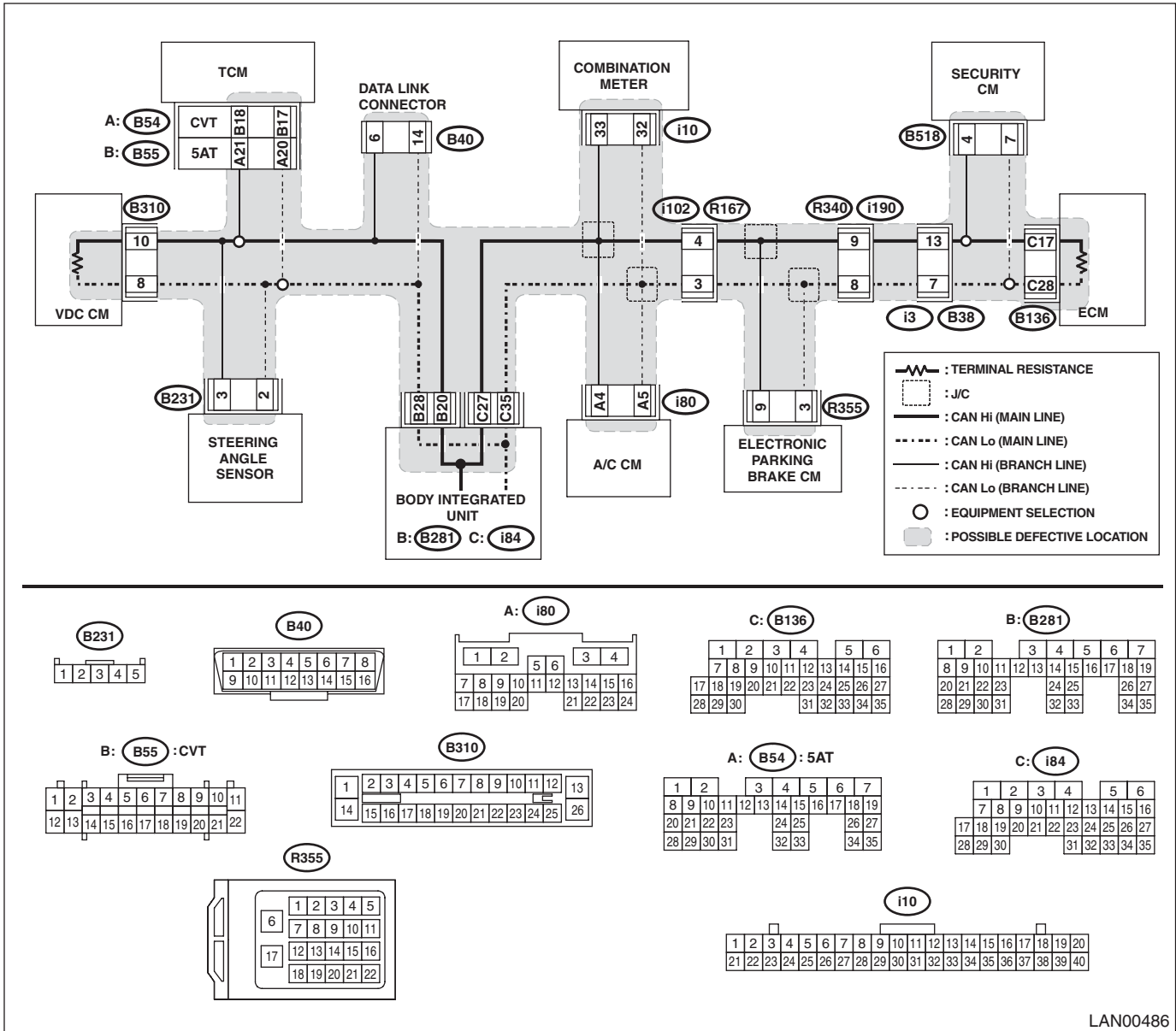
LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>2</p> <p>CHECK MAIN WIRING HARNESS AND RELATED LINES. With a tester connected, disconnect control module connectors in order. NOTE: Disconnect the body integrated unit at the end. Connector & terminal (B40) No. 6 — No. 14:</p>	Is there any control module whose condition has changed from short state?	Replace the control module whose resistance has changed. When the value changed at disconnecting the body integrated unit, go to next. Go to step 3.	Go to step 4.
<p>3</p> <p>CHECK BETWEEN MAIN WIRING HARNESSES. Using the tester, measure the resistance between terminals. Connector & terminal (i84) No. 27 — No. 35:</p>	Is the resistance 10 Ω or less?	Repair or replace the short circuit of the harness.	Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.>
<p>4</p> <p>CHECK CONTROL MODULE. 1) Disconnect ECM and VDC CM connectors. 2) Using a tester, measure the resistance between control module terminals. Connector & terminal (B136) No. 17 — No. 28: (B310) No. 8 — No. 10:</p>	Is the resistance between 115 — 135 Ω ?	Replace the control module whose end resistance value is out of the specified range.	Go to step 5.
<p>5</p> <p>CHECK CONTROL MODULE. 1) Disconnect the body integrated unit connector. 2) Using a tester, measure the resistance between control module terminals. Connector & terminal (B281) No. 28 — (i84) No. 27: (B281) No. 20 — (i84) No. 35:</p>	Is the resistance between 1425 — 1575 Ω ?	Go to step 6.	Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.>
<p>6</p> <p>CHECK CONTROL MODULE. Using a tester, measure the resistance between control module terminals. Connector & terminal (B281) No. 28 — (i84) No. 35: (B281) No. 20 — (i84) No. 27:</p>	Is the resistance less than 1 Ω ?	Go to step 7.	Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.>
<p>7</p> <p>CHECK CONTROL MODULE. 1) Disconnect the security CM connector. 2) Using a tester, measure the resistance between control module terminals. Connector & terminal (B40) No. 6 — No. 14:</p>	Is the resistance between 1425 — 1575 Ω ?	Go to step 8.	Replace the security CM.
<p>8</p> <p>CHECK HARNESS. Using the tester, check the short circuit portion of each harness. Connector & terminal (B281) No. 28 — No. 20:</p>	Is the resistance 1 M Ω or more?	Go to step 10.	Go to step 9.
<p>9</p> <p>CHECK CONTROL MODULE. With a tester connected, disconnect control modules in order. Connector & terminal (B281) No. 28 — No. 20:</p>	Are there any control modules whose resistance changed to 1 M Ω or more?	Replace the control module that has changed.	Repair or replace the harness due to resistance component.
<p>10</p> <p>CHECK CONTROL MODULE. With a tester connected, disconnect control modules in order. Connector & terminal (i84) No. 27 — No. 35:</p>	Is there any control module whose resistance has changed to 1 M Ω or more?	Replace the control module that has changed.	Repair or replace the harness due to resistance component.

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5. 65 Ω OR MORE



LAN00486

NOTE:

When CAN communication circuit is measured, combined resistance of end resistance (120 Ω) in ECM and end resistance (120 Ω) in VDC CM can be measured. The combined resistance is approximately 56 — 64 Ω. When the measured resistance value is 65 Ω or more, either of end resistance or main wiring harness may have malfunction such as open circuit.

Step	Check	Yes	No
1	CHECK CONTROL MODULE. 1) Disconnect ECM and VDC CM connectors. 2) Using a tester, measure the resistance between control module terminals. Connector & terminal (B136) No. 17 — No. 28: (B310) No. 8 — No. 10:	Is the resistance 115 — 135 Ω or more? Replace the control module whose value is out of the specification.	Go to step 2.

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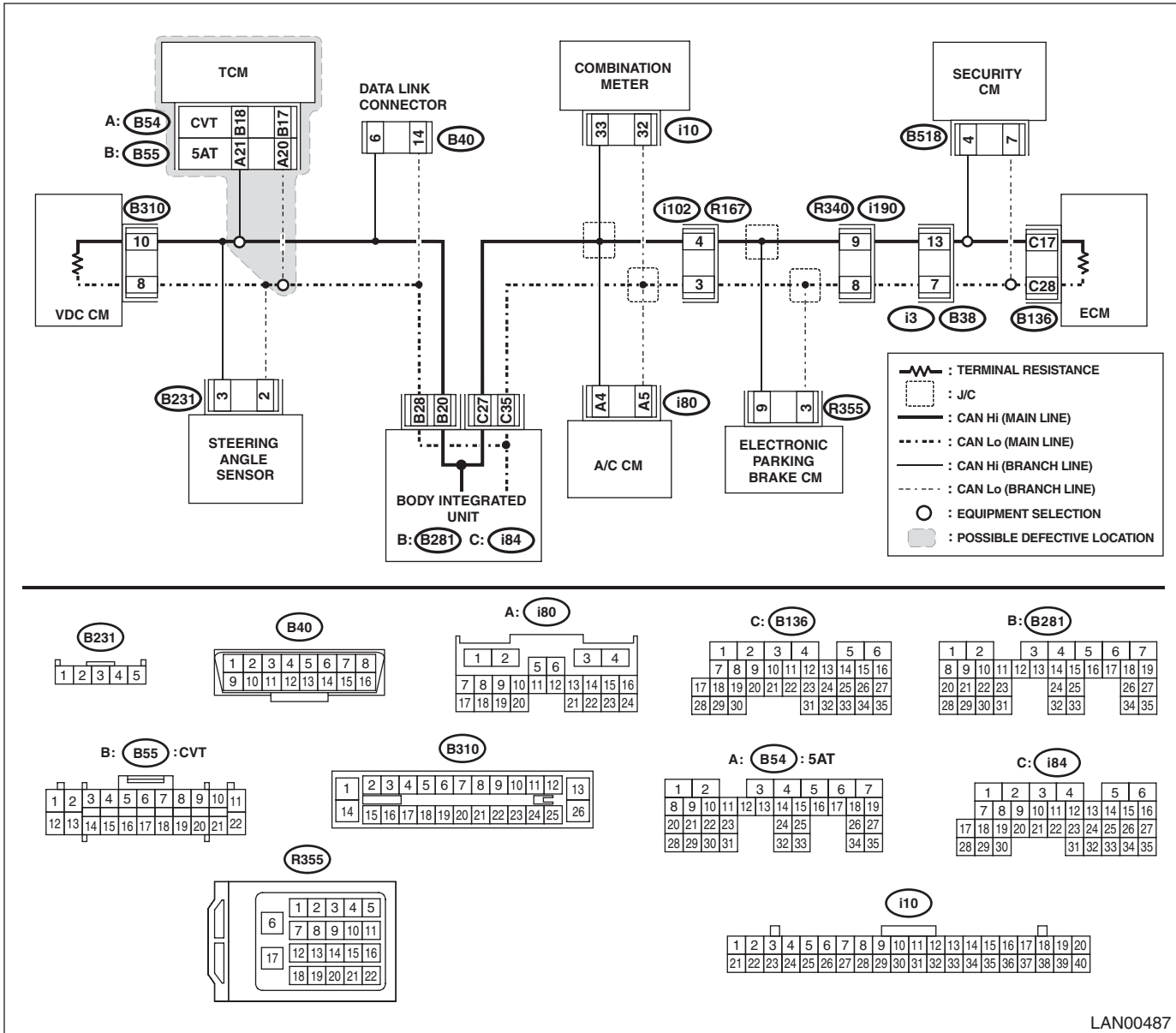
LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
2 CHECK CONTROL MODULE. 1) Disconnect the connector of body control module. 2) Using a tester, measure the resistance between control module terminals. <i>Connector & terminal</i> <i>(B281) No. 28 — (i84) No. 27:</i> <i>(B281) No. 20 — (i84) No. 35:</i>	Is the resistance between 1425 — 1575 Ω?	Go to step 3.	Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.>
3 CHECK CONTROL MODULE. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B281) No. 28 — (i84) No. 35:</i> <i>(B281) No. 20 — (i84) No. 27:</i>	Is the resistance less than 1 Ω?	Go to step 4.	Replace the body integrated unit. <Ref. to SL-72, REMOVAL, Body Integrated Unit.>
4 CHECK HARNESS. Using a tester, check continuity between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — (B310) No. 10:</i> <i>(B40) No. 14 — (B310) No. 8:</i> <i>(B40) No. 6 — (i281) No. 20:</i> <i>(B40) No. 14 — (i281) No. 28:</i>	Is there any continuity?	Go to step 5.	Repair or replace the open circuit of harness.
5 CHECK HARNESS. 1) Disconnect the connector from ECM. 2) Using a tester, check continuity between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — (B136) No. 17:</i> <i>(B40) No. 14 — (B136) No. 28:</i>	Is there any continuity?	It is possible that temporary poor contact occurs.	Repair or replace the open circuit of harness.

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LAN SYSTEM (DIAGNOSTICS)

6. 56 — 64 Ω (TCM)



LAN00487

NOTE:

Perform inspection when no data is received, or faulty is detected. This is different from power supply shorted or ground shorted.

Step	Check	Yes	No	
1	<p>CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS.</p> <p>1) Disconnect the TCM connector. 2) Using the tester, measure the resistance between terminals.</p> <p>Connector & terminal CVT model (B55) No. 17 — No. 18: 5AT model (B54) No. 20 — No. 21:</p>	Is the resistance 400 Ω or more?	Related lines between TCM and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.

CAN Communication Circuit Check

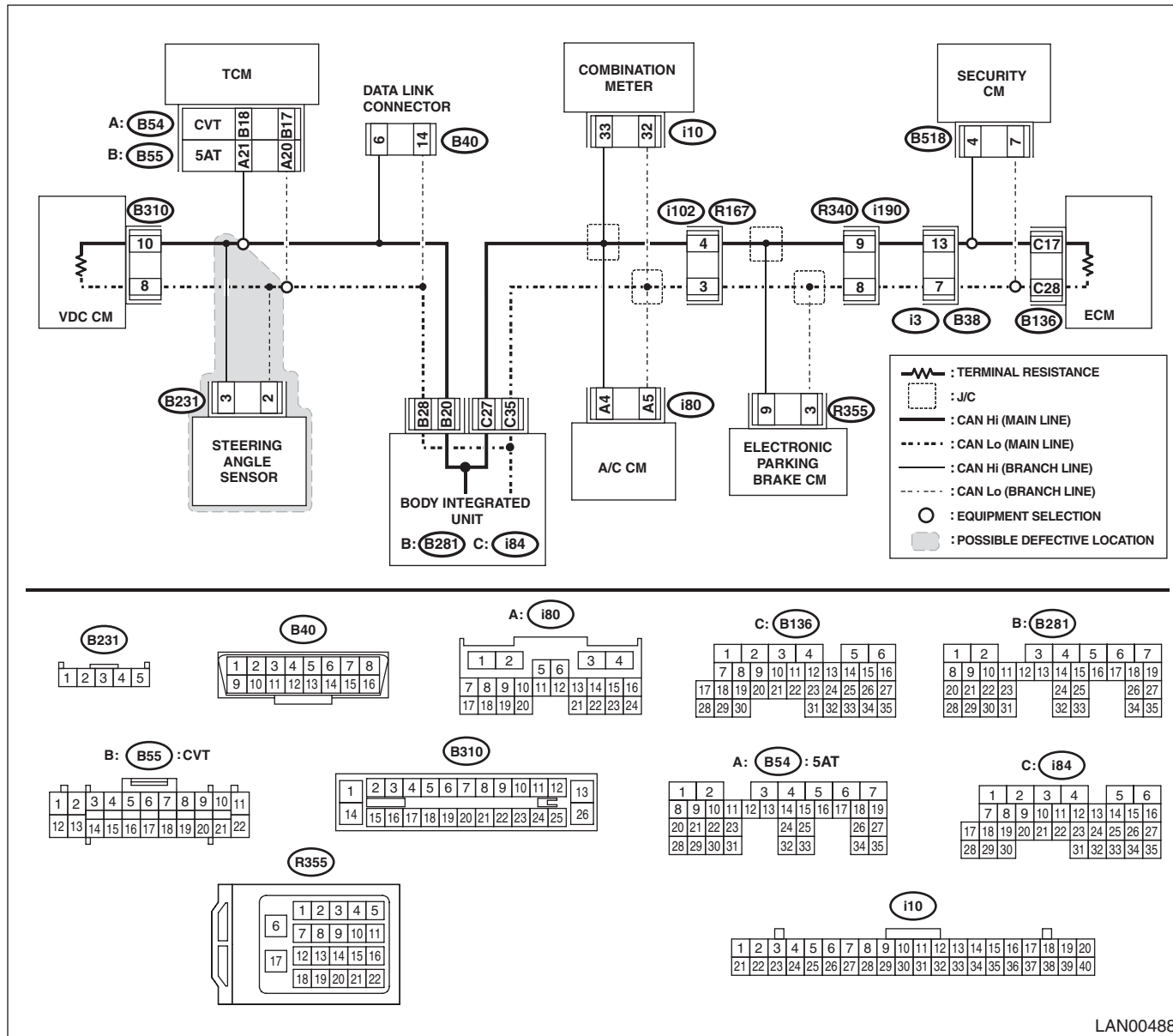
LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. Connector & terminal CVT model <i>(B55) No. 17 — (B40) No. 14:</i> <i>(B55) No. 18 — (B40) No. 6:</i> 5AT model <i>(B54) No. 20 — (B40) No. 14:</i> <i>(B54) No. 21 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of TCM related lines.	Check DTC of TCM. <Ref. to CVT(diag)-17, OPERATION, Read Diagnostic Trouble Code (DTC).> <Ref. to 5AT(diag)-20, OPERATION, Read Diagnostic Trouble Code (DTC).>

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7. RELATED LINES 56 — 64 Ω (STEERING ANGLE SENSOR)



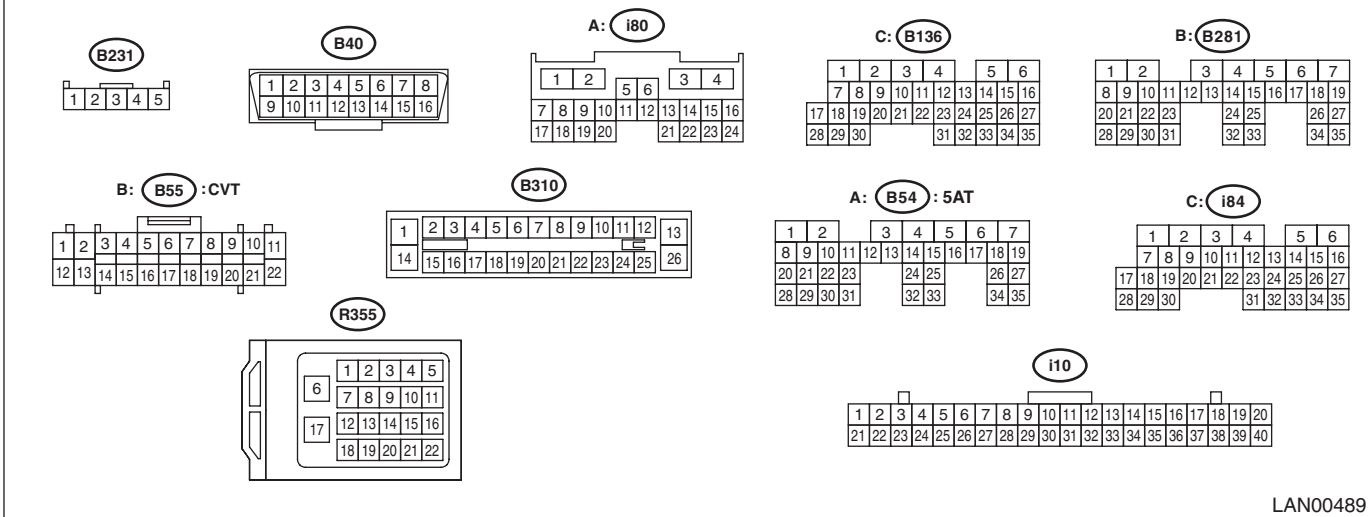
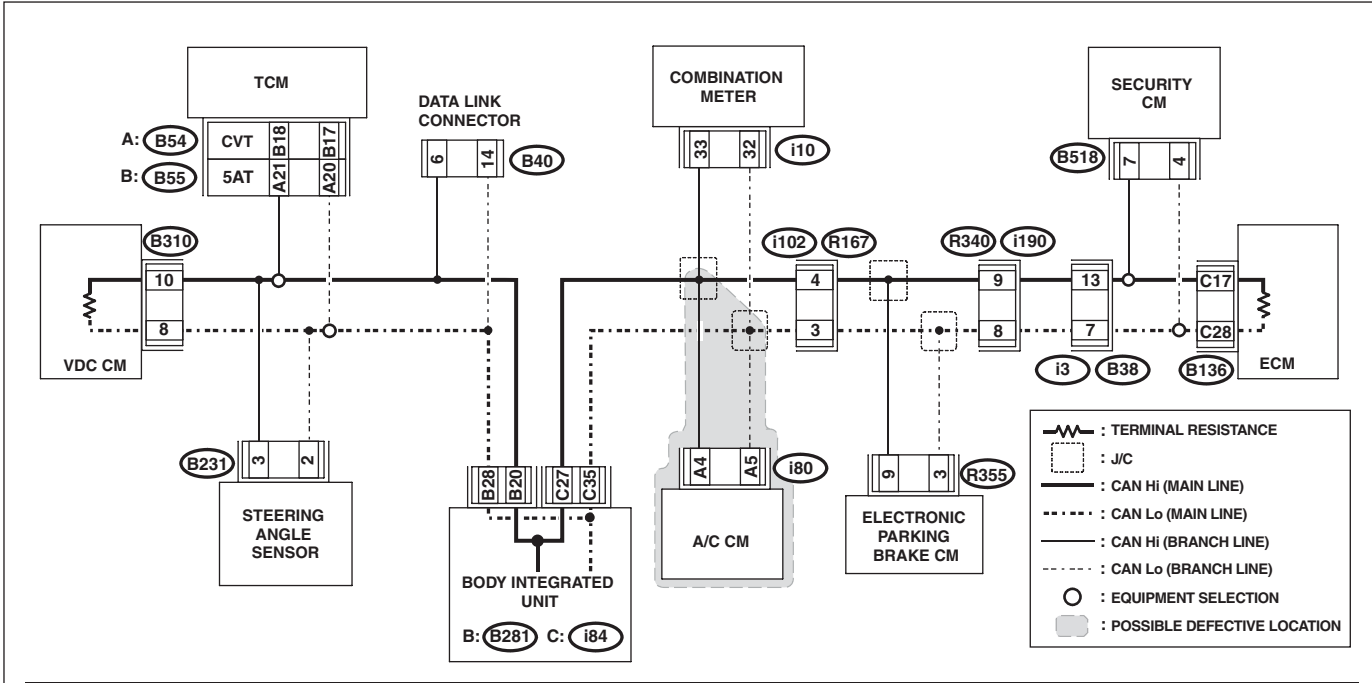
LAN00488

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the steering angle sensor connector. 2) Using the tester, measure the resistance between terminals. Connector & terminal (B231) No. 2 — No. 3:	Is the resistance 400 Ω or more?	Related lines between steering angle sensor and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. Connector & terminal (B231) No. 2 — (B40) No. 14: (B231) No. 3 — (B40) No. 6:	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of steering angle sensor related lines.	Check DTC of VDC CM. <Ref. to VDC(diag)-23, OPERATION, Read Diagnostic Trouble Code (DTC).>

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

8. 56 — 64 Ω (A/C CM)



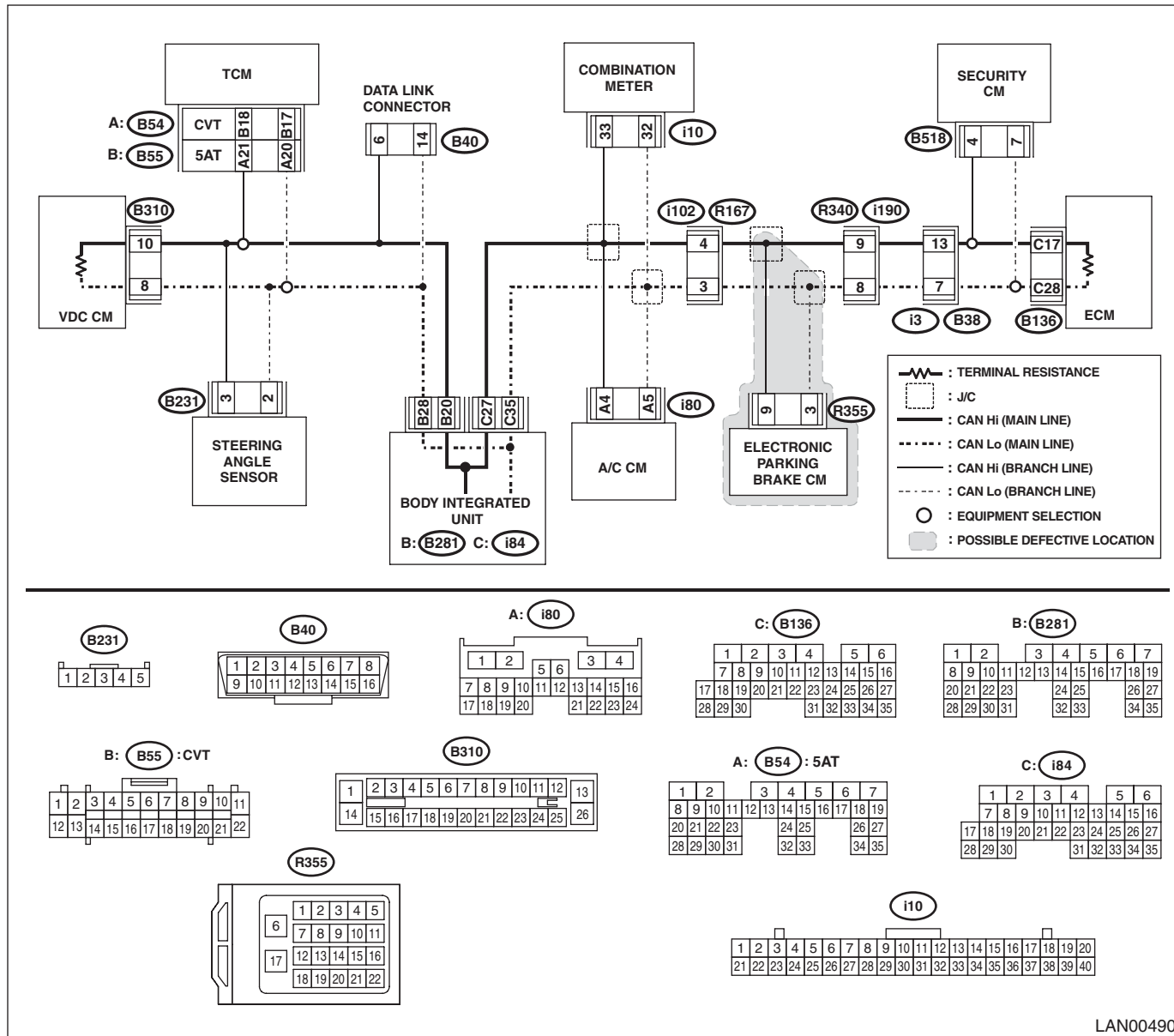
LAN00489

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the A/C CM connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(i80) No. 4 — No. 5:</i>	Is the resistance 400 Ω or more?	Related lines between A/C CM and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(i80) No. 4 — (B40) No. 6:</i> <i>(i80) No. 5 — (B40) No. 14:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit of A/C CM related lines.	Check DTC of A/C CM. <Ref. to AC(diag)-26, OPERATION, Read Diagnostic Trouble Code (DTC).>

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9. 56 — 64 Ω (ELECTRONIC PARKING CM)



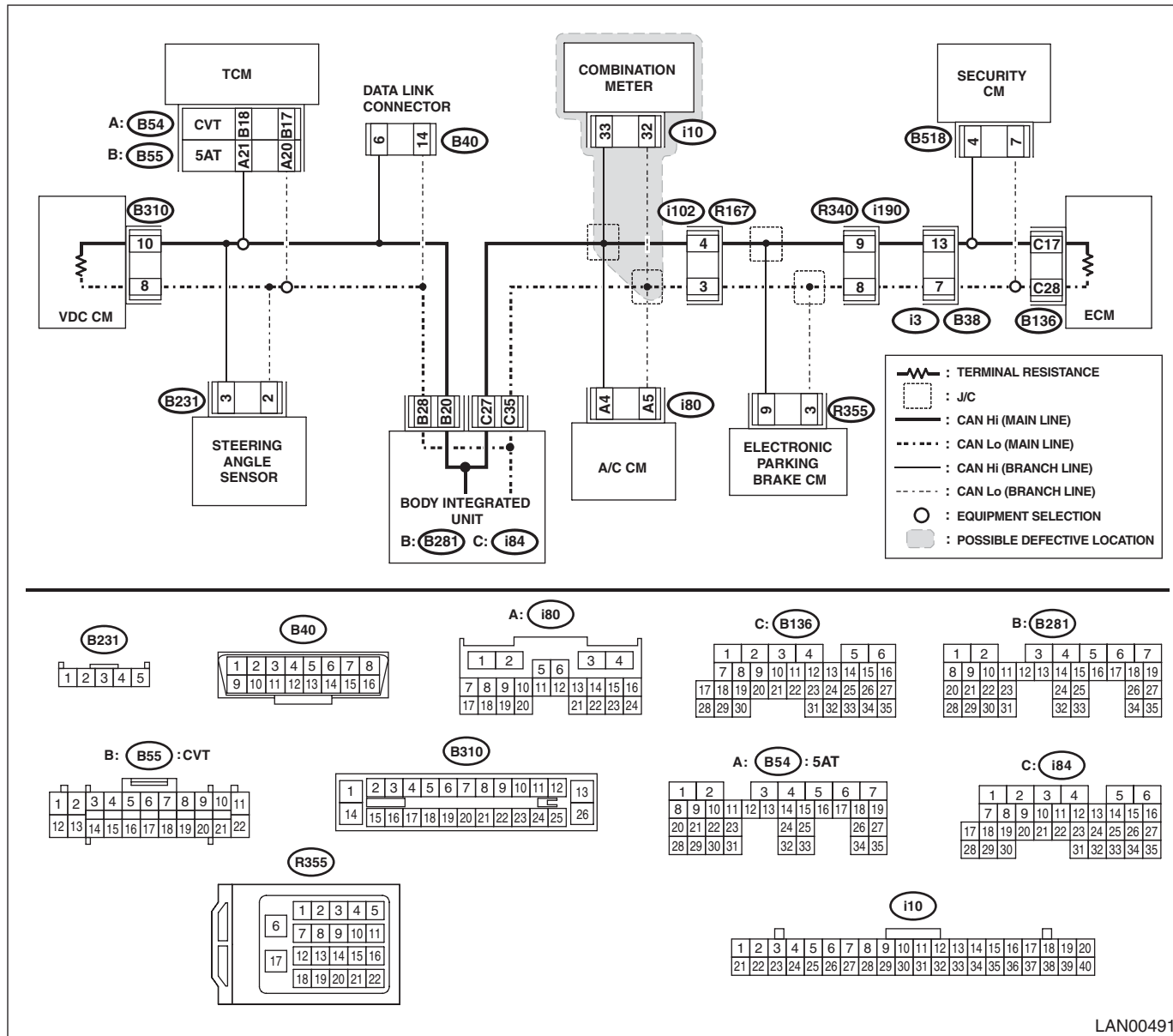
LAN00490

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the electronic parking CM connector. 2) Using the tester, measure the resistance between terminals. Connector & terminal (R355) No. 6 — No. 7:	Is the resistance 400 Ω or more?	Related lines between electronic parking CM and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. Connector & terminal (R355) No. 6 — (B40) No. 6: (R355) No. 7 — (B40) No. 14:	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of electronic parking CM related lines.	Check DTC of electronic parking CM. <Ref. to PB(diag)-22, OPERATION, Read Diagnostic Trouble Code (DTC).>

CAN Communication Circuit Check

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10.56 — 64 Ω (COMBINATION METER)



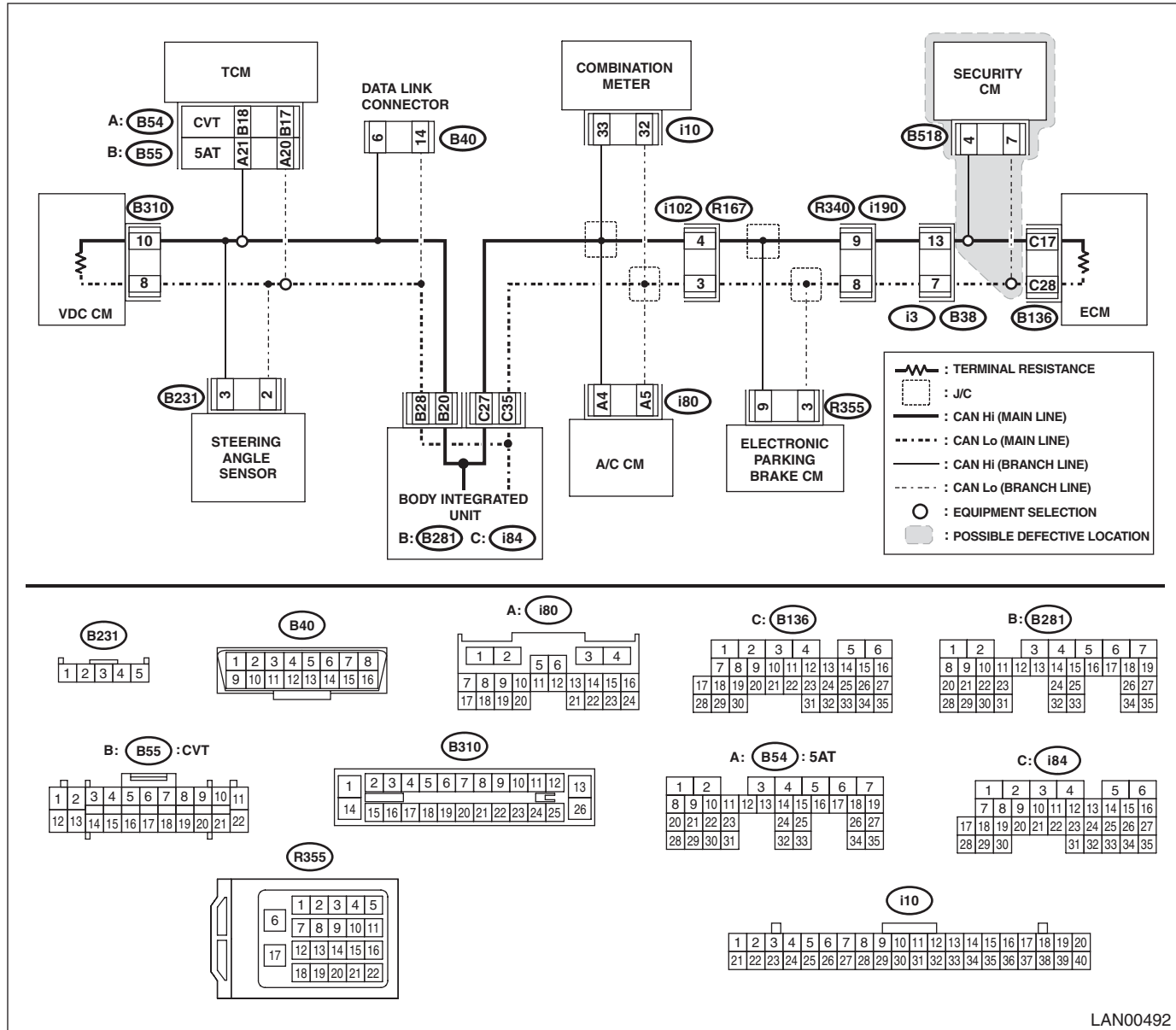
LAN00491

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the combination meter connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(i10) No. 32 — No. 33:</i>	Is the resistance 400 Ω or more?	Related lines between combination meter and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(i10) No. 32 — (B40) No. 14:</i> <i>(i10) No. 33 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of combination meter related lines.	Check DTC of combination meter.

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11.56 — 64 Ω (SECURITY CM)



LAN00492

Step	Check	Yes	No
1	<p>CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS.</p> <p>1) Disconnect the security CM connector. 2) Using the tester, measure the resistance between terminals.</p> <p>Connector & terminal (B518) No. 7 — No. 4:</p>	<p>Related lines between security CM and main wiring harness is open, or main wiring harness is open at two places or more.</p>	<p>Go to step 2.</p>
2	<p>CHECK RELATED LINES.</p> <p>Using the tester, measure the resistance between terminals.</p> <p>Connector & terminal (B518) No. 4 — (B40) No. 6: (B518) No. 7 — (B40) No. 14:</p>	<p>Repair or replace the open circuit portion of security CM related lines.</p>	<p>Check DTC of immobilizer system. <Ref. to IM(diag)-9, OPERATION, Read Diagnostic Trouble Code (DTC).></p>