

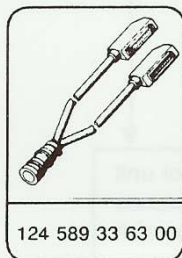
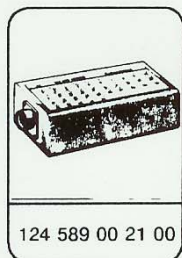
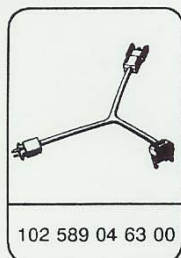
Note: Prior to performing this test, ensure that the engine is at operating temperature, there are no intake/vacuum leaks present and that power to the CIS-E control unit is in order (see CIS-E Control Unit Voltage Supply Test, GE-07.14).

### Test Data

Static current at EHA	Engine not running, ignition "ON"		20 mA
Coolant temperature sensor, M.Y. 1986-1987	Coolant temperature + 20°C	Resistance Current at EHA	2.2-2.8 kOhm 2-6 mA
	Coolant temperature + 80°C	Resistance Current at EHA	290-370 Ohm Value fluctuates
Coolant temperature sensor, M.Y. 1988	Coolant temperature + 20°C	Resistance Current at EHA <sup>1)</sup>	2.2-2.8 kOhm 0 ± 1 mA
	Coolant temperature + 80°C	Resistance Current at EHA	290-370 Ohm Value fluctuates
Coolant temperature sensor, M.Y. 1989	Coolant temperature + 20°C	Resistance Current at EHA <sup>1)</sup>	2.2-2.8 kOhm -1 to -5 mA, between 60 and 120 seconds after start
	Coolant temperature + 80°C	Resistance Current at EHA	290-370 Ohm Value fluctuates
Resistance of Electro-Hydraulic Actuator			19.5 ± 1.0 Ohm

<sup>1)</sup> With connector G3/2x2 (O<sub>2</sub> sensor signal) unplugged.

### Special Tools



### Equipment

Digital multimeter<sup>1)</sup>

SUN DMM-5, Fluke model 23

<sup>1)</sup> Available through the MBNA Standard Equipment Program

Test

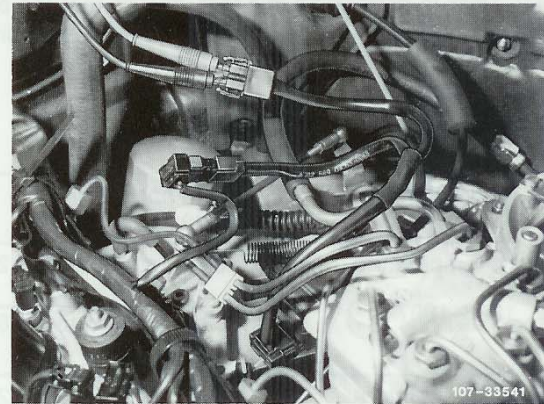
Connect test cable to EHA.

Set multimeter to Amp. Turn on ignition.

Measure current flow.

Nominal value = approx. + 20 mA.

O.K.	Different mA reading	0 mA reading
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Check part no. of CIS-E control unit.  
Replace control unit if necessary.

Run engine at idle and operating temperature.  
Multimeter connected as above and set to Amp.

Nominal value: Needle fluctuates  $0 \pm 3$  mA

O.K.	Not O.K.
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Adjust Lambda control, check O<sub>2</sub>-sensor  
(GE-07.05).

End of Test

Turn off ignition. Connect socket box to CIS-E control unit plug (CIS-E control unit disconnected). Check resistance of EHA between sockets 10 and 12 of socket box with multimeter set to Ohm.

Nominal value:  $19.5 \pm 1 \Omega$

O.K.	Not O.K.
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