

Gauge Assembly

Coolant Temperature Gauge Test

Coolant temperature gauge needle does not move at all.

1. Turn the ignition switch OFF.
2. Connect ECM connector terminal A18 to body ground with a jumper wire.
3. Turn the ignition switch ON (II).

Within two to five seconds, does the temperature gauge needle move to the Hot side?

YES

Substitute a known good ECM and recheck. If the symptom/indication goes away, replace the original ECM.

NO

1. Turn the ignition switch OFF.
2. Disconnect ECM connector A (26P).
3. Turn the ignition switch ON (II).
4. Measure voltage between ECM connector terminal A18 and body ground.

Is there approx. 5 V?

YES

Replace the coolant temperature gauge.

NO

1. Turn the ignition switch OFF.
2. Check for continuity between ECM connector terminal A18 and gauge assembly connector terminal A12.

Is there continuity?

YES

Replace the coolant temperature gauge.

NO

Repair open in the wire between ECM connector terminal A18 and gauge assembly connector terminal A12.

ECM CONNECTOR A (26P)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26



Wire side of female terminals

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26



MTRTW
(YEL/GRN)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

MTRTW
(YEL/GRN)



(YEL/GRN)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30												

GAUGE ASSEMBLY CONNECTOR A (30P)

Wire side of female terminals



Coolant temperature gauge needle goes past the Hot mark.

1. Turn the ignition switch OFF.
2. Disconnect ECM connector A (26P).
3. Turn the ignition switch ON (II), and watch the coolant temperature gauge.

Does the coolant temperature gauge needle move correctly? (you may have to watch it for about 5 seconds.)

NO

Substitute a known good ECM and recheck. If the symptom/indication goes away, replace the original ECM.

YES

1. Turn the ignition switch OFF.
2. Turn the ignition switch ON (II), and watch the coolant temperature gauge again.

Does the coolant temperature gauge needle immediately go past the Hot mark?

YES

Replace the coolant temperature gauge.

NO

Does the coolant temperature gauge needle go past within two to five seconds?

NO

Replace the coolant temperature gauge.

YES

1. Turn the ignition switch OFF.
2. Disconnect the gauge assembly connector A (30P).
3. Check for continuity between ECM connector terminal A18 and gauge assembly connector terminal A12.

Is there continuity?

NO

Replace the coolant temperature gauge.

YES

Repair short in the wire between ECM connector terminal A18 and gauge assembly connector terminal A12.

ECM CONNECTOR A (26P)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

**MTRTW
(YEL/GRN)**



(YEL/GRN)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30												

GAUGE ASSEMBLY CONNECTOR A (30P)
Wire side of female terminals