

INSPECTION

1. INSPECT NO. 1 COOLER THERMISTOR

- (a) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
1 - 2	-10°C (14°F)	7.30 to 9.10 kΩ
1 - 2	-5°C (23°F)	5.65 to 6.95 kΩ
1 - 2	0°C (32°F)	4.40 to 5.35 kΩ
1 - 2	5°C (41°F)	3.40 to 4.15 kΩ
1 - 2	10°C (50°F)	2.70 to 3.25 kΩ
1 - 2	15°C (59°F)	2.14 to 2.58 kΩ
1 - 2	20°C (68°F)	1.71 to 2.05 kΩ
1 - 2	25°C (77°F)	1.38 to 1.64 kΩ
1 - 2	30°C (86°F)	1.11 to 1.32 kΩ

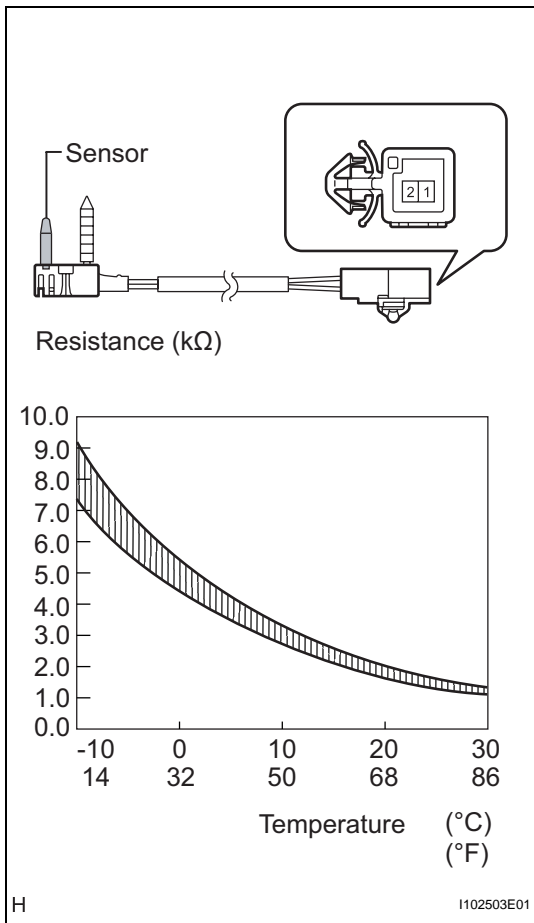
NOTICE:

- Touching the sensor even slightly may change the resistance value. Hold the connector of the sensor.
- When measuring the resistance, the temperature of the sensor and the cooler thermistor must be the same.

HINT:

As the temperature increases, the resistance decreases (see the graph).

If the operation is not as specified, replace the cooler thermistor.



AC

2. INSPECT MODE CONTROL SERVO MOTOR

- (a) Inspect the servo motor operation.

- (1) Connect the positive (+) lead from the battery to terminal 4 (DEF) and negative (-) lead to terminal 5 (FACE), then check that the lever turns to the DEF position smoothly.

Standard:

The motor operates smoothly.

If the operations are not as specified, replace the mode control servo motor.

- (2) Connect the positive (+) lead from the battery to terminal 5 (FACE) and negative (-) lead to terminal 4 (DEF), then check that the lever turns to the FACE position smoothly.

Standard:

The motor operates smoothly.

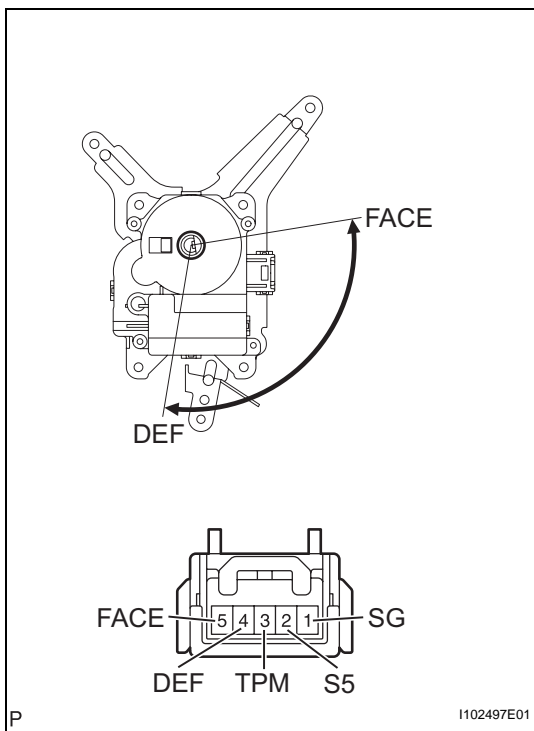
If the operations are not as specified, replace the mode control servo motor.

- (b) Check the servo motor resistance.

- (1) Using an ohmmeter, measure the resistance and check the results in accordance with the values in the table below.

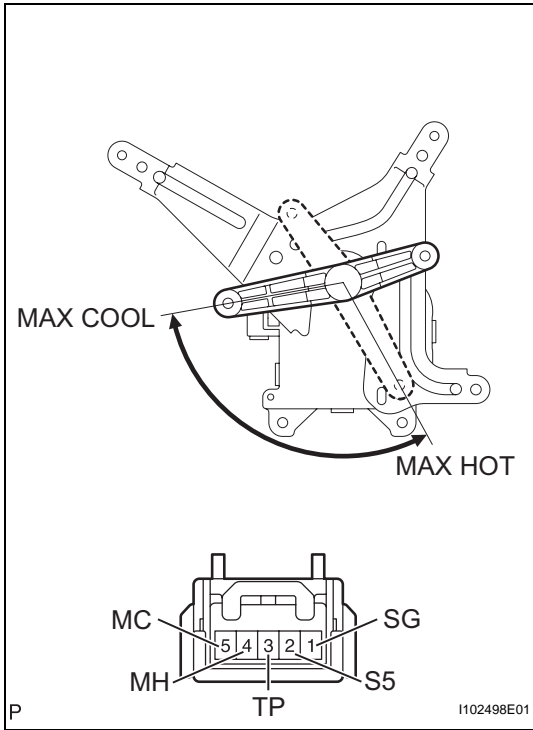
Standard resistance

Tester Connection	Servo Motor Position	Specified Condition
1 (SG) - 2 (S5)	Always	4.2 to 7.8 kΩ



Tester Connection	Servo Motor Position	Specified Condition
1 (SG) - 3 (TPM)	DEF Position	3.4 to 6.2 kΩ
1 (SG) - 3 (TPM)	FACE Position	0.8 to 1.6 kΩ

If the result is not as specified, replace the mode control servo motor.



3. REMOVE AIR MIX CONTROL SERVO MOTOR

- (a) Inspect the servo motor operation.
 - (1) Connect the positive (+) lead from the battery to terminal 4 (MH) and negative (-) lead to terminal 5 (MC), then check that the lever turns to the MAX HOT position smoothly.

Standard:

The motor operates smoothly.

If the operations are not as specified, replace the air mix control servo motor.

- (2) Connect the positive (+) lead from the battery to terminal 5 (MC) and negative (-) lead to terminal 4 (MH), then check that the lever turns to the MAX COOL position smoothly.

Standard:

The motor operates smoothly.

If the operations are not as specified, replace the air mix control servo motor.

- (b) Check the servo motor resistance.
 - (1) Using an ohmmeter, measure the resistance and check the results in accordance with the values in the table below.

Standard resistance

Tester Connection	Servo Motor Position	Specified Condition
1 (SG) - 2 (S5)	Always	4.2 to 7.8 kΩ
1 (SG) - 3 (TP)	MAX HOT Position	3.4 to 6.2 kΩ
1 (SG) - 3 (TP)	MAX COOL Position	0.8 to 1.6 kΩ

If the result is not as specified, replace the air mix control servo motor.