

## GROUP 54

# CHASSIS ELECTRICAL

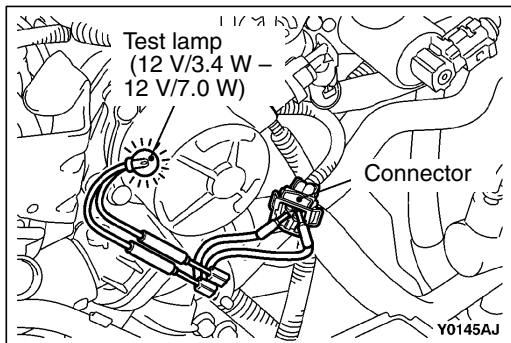
## COMBINATION METER <F9Q1>

### OUTLINE OF CHANGE

- Inspection procedures for the tachometer have been added in vehicles with F9Q1 engine.
- The change in the mounting position for the engine coolant temperature gauge to correspond to the adoption of the F9Q1 engine has been communicated. Other troubleshooting procedures are the same as for vehicles with petrol engine.

### SERVICE SPECIFICATIONS

Item		Standard value
Tachometer display error r/min	When engine speed is 700 r/min	$\pm 120$
	When engine speed is 2,000 r/min	$- 175 + 225$
	When engine speed is 3,000 r/min	$- 175 + 300$
	When engine speed is 4,000 r/min	$- 225 + 375$
	When engine speed is 5,000 r/min	$- 225 + 425$
	When engine speed is 6,000 r/min	$- 225 + 475$



### TROUBLESHOOTING

Troubleshooting procedures other than the engine coolant temperature gauge unit mounting position are the same as for vehicles with petrol engine. Refer to the '99 SPACE START Workshop Manual (BASIC) (Pub. No. CMXE99E1).

### ON-VEHICLE SERVICE

#### TACHOMETER CHECK

1. Insert a paper clip (Gem clip) into the harness-side engine speed sensor terminal and connect it to an engine tachometer.
2. Compare the engine speedometer reading at various engine speeds with the tachometer reading, and check that the error is within the standard range.

**Standard value:**

Engine speed r/min	Tachometer display error r/min
700	$\pm 120$
2,000	$- 175 + 225$
3,000	$- 175 + 300$
4,000	$- 225 + 375$
5,000	$- 225 + 425$
6,000	$- 225 + 475$