

# CONDENSER FAN ON-VEHICLE INSPECTION

AC28V-03

## 1. INSPECT CONDENSER FAN OPERATION

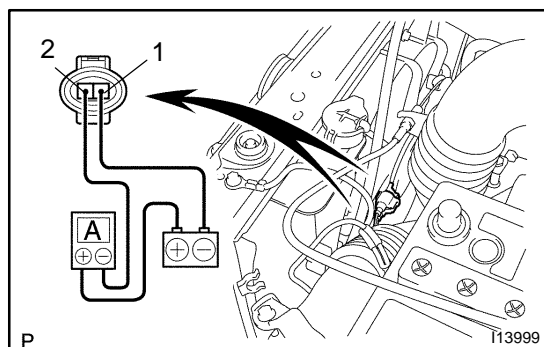
Inspect the fan operation at these conditions, as shown in the chart below.

Test conditions:

- Start engine
- Blower speed control switch position "HI"
- Temperature control dial at "COOL" position
- Set on manifold gauge set
- A/C switch ON

| Condition  | Fan operation (Fan Speed) |
|--|---------------------------|
| Water temperature below 83 °C (121 °F)   | Rotate (Low speed)        |
| Water temperature above 90 °C (194 °F)   | Rotate (High speed)       |
| Refrigerant pressure is less than 1,520 kPa (15.5 kgf-cm <sup>2</sup> , 220 psi) | Rotate (Low speed)        |
| Refrigerant pressure is 1,520 kPa (15.5 kgf-cm <sup>2</sup> , 220 psi) or above  | Rotate (High speed)       |

If operation is not as specified, proceed to the next inspection.



## 2. INSPECT CONDENSER FAN MOTOR OPERATION

- Disconnect the fan connector.
- Connect battery and ammeter to fan connector, as shown in the illustration.
- Check that the fan rotates smoothly, and then check the reading on the ammeter.

**Specified amperage:**

**Marking 1 (80 W): 6.5 ± 1.0A at 25 °C (77 °F)**

**Marking 2 (120 W): 9.8 ± 1.0A at 25 °C (77 °F)**

If operation is not as specified, replace the fan motor.

If operation is as specified, check the pressure switch, cooling fan relays and water temp. switch.