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VAT Registration No.:

Throttle position (TP) sensor

Checking supply voltage - Fig. 10

| Technical Data | | |
|----------------|-------------|--|
| Terminals | Voltage | |
| 1 & earth | 5 V approx. | |

- Ensure ignition switched OFF.
- Disconnect TP sensor multi-plug.
- Switch ignition ON.
- Check voltage between harness multi-plug terminal and earth.

Checking earth connection - Fig. 10

| Technical Data | | | |
|----------------|------------|--|--|
| Terminals | Resistance | | |
| 3 & earth | Zero | | |

- Ensure ignition switched OFF.
- Disconnect TP sensor multi-plug.
- Check resistance between harness multi-plug terminal and earth.

Checking operation - Fig. 11

| Technical Data | | | |
|----------------|---------------------|---------------|--|
| Terminals | Condition | Voltage | |
| 2 & 3 | Throttle closed | 0,45-0,55 V | |
| 2 & 3 | Throttle fully open | 4,0 V approx. | |

- Ensure ignition switched OFF.
- Do not disconnect multi-plug. Access TP sensor multi-plug terminals.
- Switch ignition ON.
- Check voltage between multi-plug terminals.
- Operate throttle valve while checking voltage between terminals 2 and 3.
- Voltage change should be smooth.

 Manufacturer: Nissan
 Model: Serena (C23) 1,6
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Checking resistance - Fig. 12

| Technical Data | | | | |
|----------------|---------------------|-----------------|--|--|
| Terminals | Condition | Resistance | | |
| 1,6 | | | | |
| 2 & 3 | Throttle closed | 500 Ω approx. | | |
| 2 & 3 | Throttle fully open | 4000 Ω approx. | | |
| 2,0 | | | | |
| 2 & 3 | Throttle closed | 2000 Ω approx. | | |
| 2 & 3 | Throttle fully open | 10000 Ω approx. | | |

- Ensure ignition switched OFF.
- Disconnect TP sensor multi-plug.
- Check resistance between TP sensor terminals.
- Operate throttle valve while checking resistance between terminals 2 and 3.
- Resistance change should be smooth.

Adjustment - Fig. 11

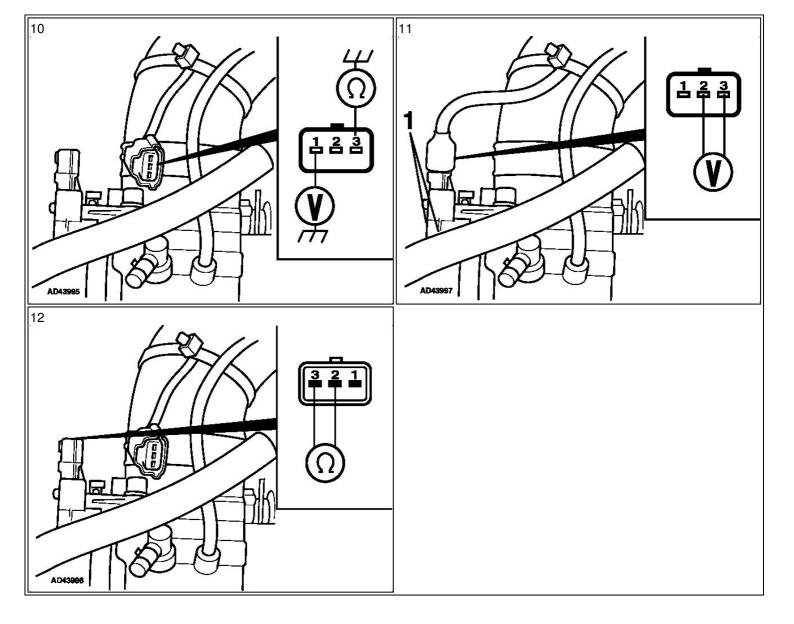
| Technical Data | | | | |
|----------------|-----------------|-------------|--|--|
| Terminals | Condition | Voltage | | |
| 2 & 3 | Throttle closed | 0,45-0,55 V | | |

- Ensure engine is at normal operating temperature.
- Do not disconnect multi-plug. Access TP sensor multi-plug terminals.
- Slacken TP sensor screws <u>Fig. 11</u> [1].
- Start engine. Allow to idle.
- Turn TP sensor until voltage between terminals 2 and 3 is as specified.
- Tighten TP sensor screws.
- To reset idle position memory:
- Disconnect TP sensor multi-plug.
- Wait 10 seconds.
- Reconnect multi-plug.
- Switch ignition OFF.

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Manufacturer: Nissan Engine code: GA16DE Tuned for: R-Cat

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