

Throttle Valve Synchronization

10-16-1000

Use of BDC Tool

Check and adjust the throttle valve synchronization between two cylinders.

- 1) Remove the fuel lines. Refer to Fuel Line Removal and Installation in Section 10 (Page 10-17).
- 2) Remove the air cleaner chamber. Refer to Air Cleaner Chamber Removal and Installation (Page 10-14).
- 3) Remove the ISC valve from the air cleaner chamber. Refer to ISC Valve Removal and Installation (Page 10-10).
- 4) Connect the tool into coupler and hose.



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- 5) Disconnect the air sensor and vacuum hoses (1) from the throttle body.



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- 6) Connect the respective vacuum hoses and air sensor hoses to each vacuum nipple on the throttle body into the special tool.

Special tool

- 822-01 1000-0000-000 (Hose)
822-01 1000-0000-000 (Three way joint)



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- 7) Set up the BDC tool. (Refer to the BDC operation manual for further details.)

- 8) Start the engine.
- 9) Check "Data monitor".

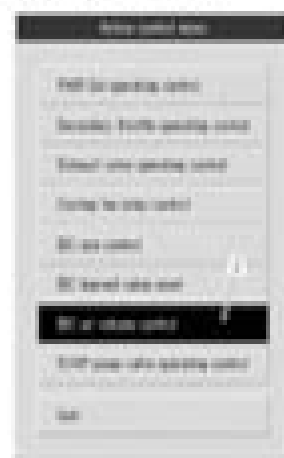
- 10) Warm up the engine (under load) more than 80 °C (176 °F).

Throttle open	40 mm
Idle speed	1000 rpm
Throttle cable / Throttle	20 mm
Throttle position	20 mm
Idle air flow	10 L/min

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- 11) Check "Valve timing".

- 12) Check ISC air volume control (2).



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10-17 Engine Mechanical

- 13) Check "ON" button (3) is to the ISC air volume among 2 cylinders.

NOTE

When making this synchronization, be sure that the water temperature is within 80 ± 100 °C (176 ± 212 °F).

Item	Unit	Value
Throttle open	mm	40
Idle speed	rpm	1000
Throttle cable / Throttle	mm	20
Throttle position	mm	20
Idle air flow	L/min	10

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1. Throttle open, 20 mm 2. ISC, idle speed, 1000 rpm

- 14) Check for the synchronization of vacuum from air and ISC systems.



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- 15) Equalize the vacuum of the cylinders by turning each piston and keep it turning at idling speed.

NOTE

Always run the engine idle at idle speed.



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- 16) If the adjustment is not yet correct, remove each air sensor and clean them with a spray-type carburetor cleaner, and then dry with a compressed air. Also clean the air sensor passages.

NOTE

- Slowly turn the air sensor in clockwise and count the number of turns until the sensor is tightly seated.
- Make a note of how many turns were made so the sensor can be reset correctly after cleaning.

- 17) Repeat the procedures of 7) to 15).

- 18) Close the BDC tool and turn the ignition switch to OFF position.

- 19) Disconnect the vacuum hoses and reinstall the removed parts.

- 20) After completing the throttle valve synchronization, check the GPC and reset the ISC learned value using BDC tool. Refer to ISC Valve Present and Learning Initialization in Section 10 (Page 10-17).

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