VDC SEQUENCE CONTROL

VDC

5. VDC Sequence Control

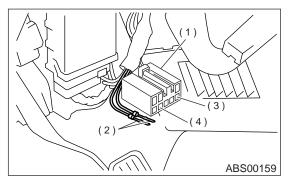
A: OPERATION

1) Under the VDC sequence control, after the hydraulic unit solenoid valve is driven, the operation of the hydraulic unit can be checked by means of the brake tester or pressure gauge.

2) VDC sequence control can be started by diagnosis connector or select monitor.

1. VDC SEQUENCE CONTROL WITH DIAG-NOSIS CONNECTOR

1) Connect diagnosis terminals to terminals No. 5 and No. 8 of the diagnosis connector beside driver's seat heater unit.



- (1) Diagnosis connector
- (2) Diagnosis terminal
- (3) 8 terminal
- (4) 5 terminal

2) Set the speed of all wheels at 2.75 km/h (2 MPH) or less.

3) Turn ignition switch OFF.

4) Turn ignition switch ON and start engine immediately, confirming that ABS and VDC warning light goes ON and then OFF. After ABS and VDC warning light goes OFF, within 0.5 seconds depress the brake pedal once, then within 3 second depress the brake pedal twice more and release it.

CAUTION:

Do not depress the clutch pedal.

NOTE:

• When the ignition switch is set to on, the brake pedal must not be depressed.

• Engine must operate.

• If the VDC sequence control does not start, do the procedure over again.

5) After completion of VDC sequence control, turn ignition switch OFF.

2. VDC SEQUENCE CONTROL WITH SE-LECT MONITOR

NOTE:

• In the event of any trouble, the sequence control may not be operative. In such a case, activate the sequence control, referring to "VDC SEQUENCE CONTROL WITH DIAGNOSIS CONNECTOR".

<Ref. to VDC-19, VDC SEQUENCE CONTROL WITH DIAGNOSIS CONNECTOR, OPERATION, VDC Sequence Control.>

• When the diagnosis terminal is connected to the diagnosis connector, the sequence control will not operate.

 Connect select monitor to data link connector beside driver's seat instrument panel lower cover.
Turn ignition switch ON.

3) Turn select monitor switch ON.

4) Put select monitor to "BRAKE CONTROL" mode.

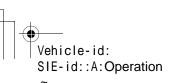
5) Select "VDC Check Mode" in {Function check sequence} menu to start `VDC sequence control'.

CAUTION:

Do not depress the clutch pedal.

6) When the message "Press YES" is displayed, press «YES» key.

7) Operation points will be displayed on select monitor.



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VDC SEQUENCE CONTROL

3. CONDITIONS FOR VDC SEQUENCE CONTROL

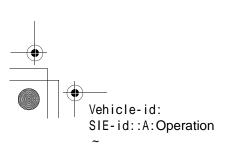
	_	2.75 km/h (2 MP	MPH) or less 10 km/h (6 MPH) or less					
Operational guide line of sequence control	Speed of all wheels	LOW]		10 km/h (6 N	IPH) or les	S	
	Terminal No. 5 and No. 8		1					
	Ignition key switch	OFF 1.5s	Point A	4 -	ON (Eng		0.4-	1.0-
				1s	3.4s	1s	3.4s	1.6s
	ABS warning light	OFF LIGHT				1		
			Within 0.5s					
	VDC warning light	OFF LIGHT						
	VDC. OFF indicator light	OFF	LIGHT					
	VDC operation indicator light	OFF		LIG	НТ			
	v Do operation indicator light		Within 3s					
	Pressure sensor signal	OFF						
		LOW HIGH						
Operational pattern of sequence control	AET AEB	LOW HIGH	E					
	AEC	LOW HIGH						
		LOW HIGH				-		
	EAM	OFF ON						
	Valve relay Secondary cut valve	OFF			ON	1		
		OFF		0.8s	Within 0.4		ON	
	Primary cut valve	OFF		ON				
	Secondary suction valve	OFF			*	0.4s ON	v]	
	Primary suction valve	OFF			i	ON ON	•	
	FL outlet valve	OFF			ON			
	FL inlet valve	OFF			1.6s]	
	FR outlet valve	OFF					ON	
	FR inlet valve	OFF				ON		
	RR outlet valve RR inlet valve	OFF			ON			
		OFF					6	NC
	RL outlet valve RL inlet valve	OFF					ON	
	Pump motor	OFF		ON				
Operational pressure of sequence control								
	Pressure of master cylinder					/		
	Pressure of FR wheel cylinder							
	Pressure of FL wheel cylinder							
	Pressure of RL wheel cylinder							\searrow
	Pressure of RR wheel cylinder							
		1						I
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NOTE:

• When select monitor is used, control operation starts at point A. The patterns from IGN key ON to the point A show that operation is started by diagnosis connector.

• HIGH means high voltage.

• LOW means low voltage.



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VDC SEQUENCE CONTROL

B: SPECIFICATION

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Vehicle-id:

SIE-id::B:Specification

1. CONDITIONS FOR COMPLETION OF VDC SEQUENCE CONTROL

When the following conditions develop, the VDC sequence control stops and VDC operation is returned to the normal control mode.

1) When the speed of at least one wheel reaches 10 km/h (6 MPH).

2) When terminal No. 5 or No. 8 are separated from diagnosis terminals. (When select monitor is not used.)

3) When the brake pedal is released during sequence control and the braking lamp switch is set to off.

4) When brake pedal is depressed after ignition key is turned to ON, and before VDC warning light goes out. (When select monitor is not used.)

5) When brake pedal is not depressed after ignition key is turned to ON, and within 0.5 seconds after VDC warning light goes out. (When select monitor is not used.)

6) After completion of the sequence control.

7) When malfunction is detected. (When select monitor is used.)



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