

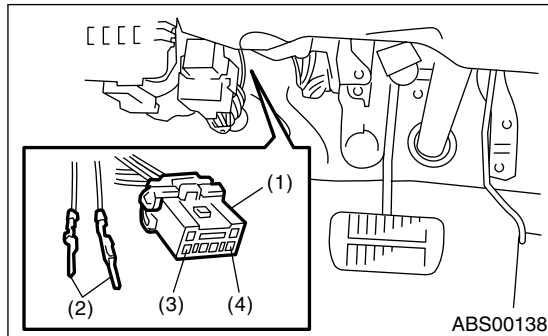
3. ABS Sequence Control

A: OPERATION

- 1) Under the ABS 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) ABS sequence control can be started by diagnosis connector or Subaru Select Monitor.

1. ABS SEQUENCE CONTROL WITH DIAGNOSIS CONNECTOR

- 1) Turn the ignition switch to OFF.
- 2) Connect the diagnosis terminal to terminal No. 6 of the diagnosis connector beside driver's seat.



- (1) Diagnosis connector
- (2) Diagnosis terminals
- (3) Terminal No. 3
- (4) Terminal No. 6

- 3) Turn the ignition switch to ON.
- 4) Confirm that start code (code 11) is only displayed.
- 5) Turn the ignition switch to OFF.
- 6) Connect the diagnosis terminals to terminals No. 6 and No. 3 of diagnosis connector.
- 7) Set the speed of all wheels at 4 km/h (2 MPH) or less.
- 8) Turn the ignition switch to ON.
- 9) Within 0.5 seconds after the ABS warning light goes out, depress the brake pedal and hold it depressed.

NOTE:

Engine must not operate.

- 10) After completion of ABS sequence control, turn the ignition switch to OFF.

2. ABS SEQUENCE CONTROL WITH SUBARU SELECT 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 "ABS SEQUENCE CONTROL WITH DIAGNOSIS CONNECTOR".
<Ref. to ABS-9, ABS SEQUENCE CONTROL WITH DIAGNOSIS CONNECTOR, ABS Sequence Control.>

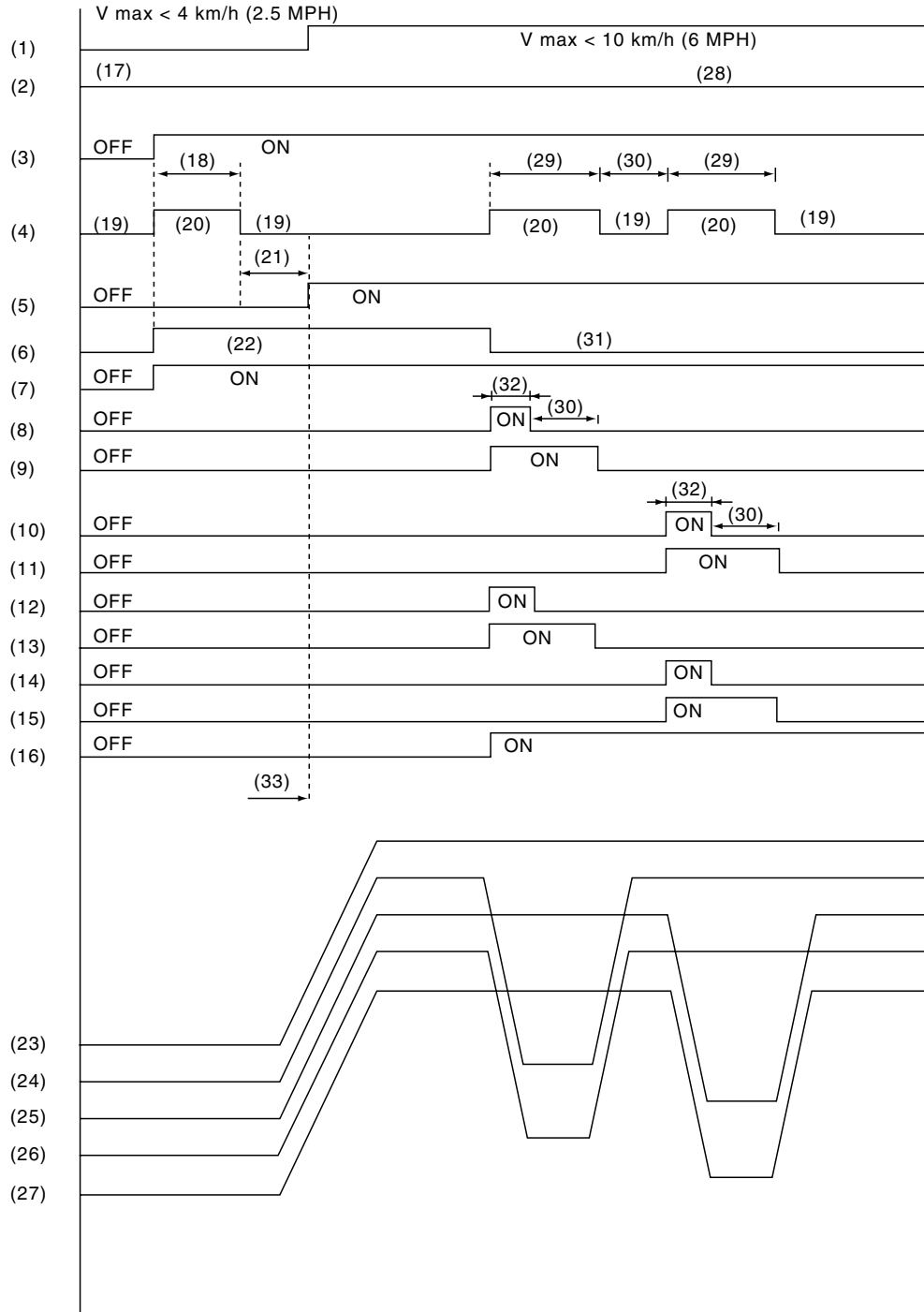
- When the diagnosis terminal is connected to the diagnosis connector, the sequence control will not operate.

- 1) Connect the Subaru Select Monitor to data link connector under driver's seat instrument panel lower cover.
- 2) Turn the ignition switch to ON.
- 3) Turn the Subaru Select Monitor switch to ON.
- 4) Put the Subaru Select Monitor to "BRAKE CONTROL" mode.
- 5) When "Function check sequence" is selected, 'ABS sequence control' will start.
- 6) When the message "Press Brake Pedal Firmly" is displayed, perform the followings.
 - (1) When using the brake tester, depress the brake pedal with braking force of 1,000 N (102 kgf, 225 lb).
 - (2) When using the pressure gauge, depress the brake pedal so as to make the pressure gauge indicate 3,500 kPa (36 kg/cm², 511 psi).
- 7) When the message "Press YES" is displayed, press the YES key.
- 8) The braking system in operation is displayed on Subaru Select Monitor.

ABS SEQUENCE CONTROL

ABS

3. CONDITIONS FOR ABS SEQUENCE CONTROL



ABS00014

(1) Speed of wheels	(12) RR outlet valve	(24) Pressure of FL wheel cylinder
(2) Terminal DK and DL	(13) RR inlet valve	(25) Pressure of FR wheel cylinder
(3) Ignition key	(14) RL outlet valve	(26) Pressure of RR wheel cylinder
(4) ABS warning light	(15) RL inlet valve	(27) Pressure of RL wheel cylinder
(5) Stop light switch	(16) Pump motor	(28) Either HI or LO possible, if using Subaru Select Monitor
(6) Signal to Transmission control module (TCM)	(17) Connection to ground terminal	(29) 1.4 second
(7) Valve relay	(18) 1.5 seconds	(30) 1.0 second
(8) FL outlet valve	(19) Not illuminated	(31) ABS working
(9) FL inlet valve	(20) Illuminated	(32) 0.4 second
(10) FR outlet valve	(21) Within 0.5 second	(33) Point A
(11) FR inlet valve	(22) ABS not working	
	(23) Pressure of master cylinder	

NOTE:

When the Subaru 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. (However, the brake light switch must be ON before point A.)

B: SPECIFICATION

1. CONDITIONS FOR COMPLETION OF ABS SEQUENCE CONTROL

When the following conditions develop, the ABS sequence control stops and ABS 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. 3 or No. 6 are separated from diagnosis terminals. (When the Subaru 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 the brake pedal is depressed after ignition key is turned to ON, and before ABS warning light goes out. (When the Subaru Select Monitor is not used.)
- 5) When the brake pedal is not depressed after ignition key is turned to ON, and within 0.5 seconds after ABS warning light goes out. (When the Subaru Select Monitor is not used.)
- 6) After completion of the sequence control.
- 7) When malfunction is detected. (When the Subaru Select Monitor is used.)