

13. AWD Warning Light Display

A: OPERATION

AWD light illuminates or blinks, when the AWD is in special control condition and AWD has malfunction.

- When normal

AWD light always illuminates when the ignition switch is ON (engine OFF). Light goes off after two seconds from engine ON.

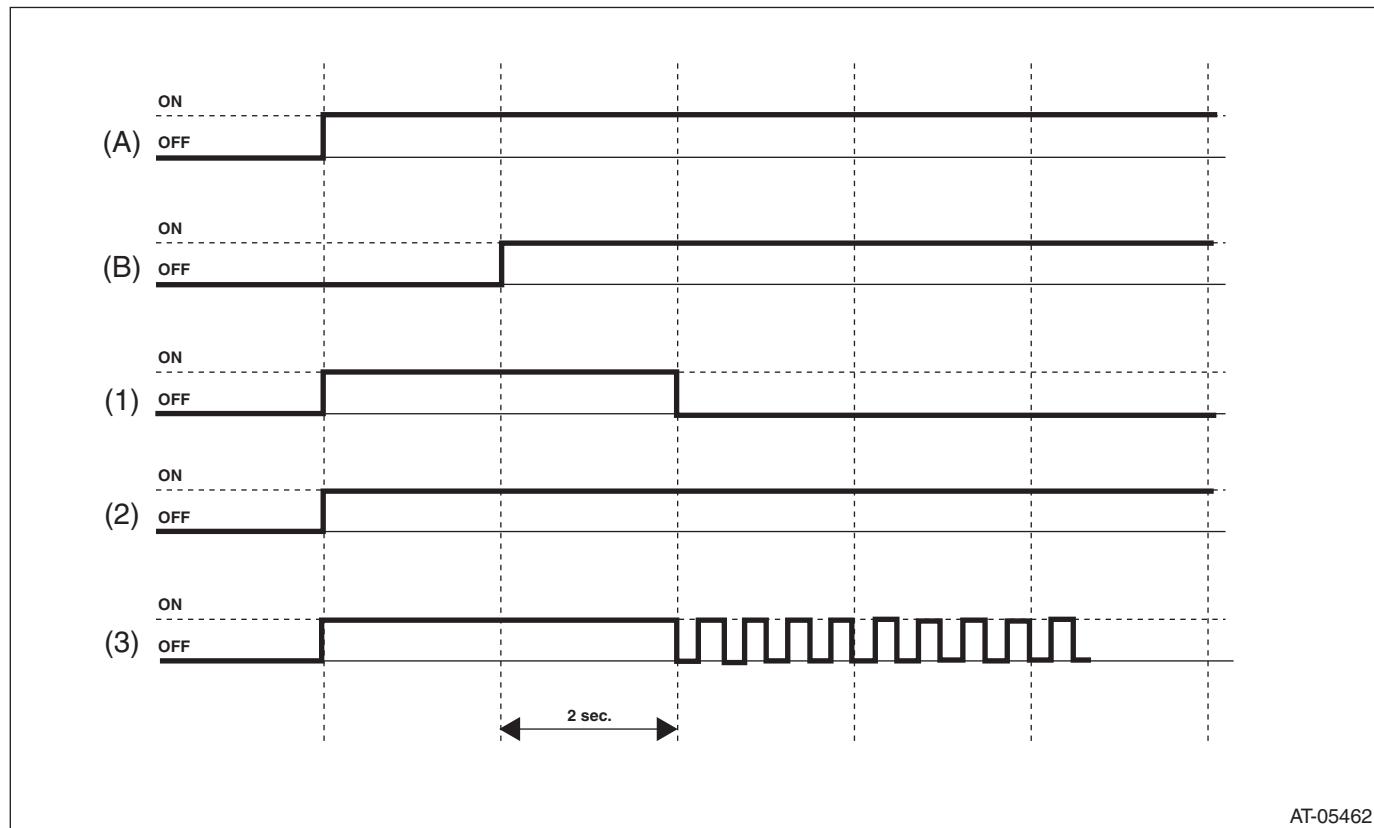
- When FF mode is selected

AWD light illuminates, when the AWD ON/OFF switching function is “FF mode” with engine ON.

- When malfunction is detected

AWD light blinks at 2 Hz when any of following malfunctions are detected with engine ON.

1. When tire with different diameter is installed, or air pressure of any of four wheels is excessively low
2. When “Rear differential inspection mode” is judged as NG <Ref. to DI-64, Rear Differential Inspection Mode.>



AT-05462

(A) Ignition switch condition

(B) Engine condition

(1) When normal

(2) When FF mode is selected

(3) When malfunction is detected

If the AWD light does not illuminate, or illumination patterns are not as above, check the AWD light circuit. <Ref. to CVT(diag)-35, INSPECTION, AWD Warning Light Display.>

B: INSPECTION

DIAGNOSIS:

- CAN communication is lost with the combination meter.
- Combination meter malfunction
- TCM is in AWD special control mode.

TROUBLE SYMPTOM:

- When the ignition switch is turned to ON, the AWD light does not illuminate.
- AWD light remains lit after engine start.

AWD Warning Light Display

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

- AWD light is blinking immediately after engine start.

Step	Check	Yes	No
1 CHECK DTC. Read the DTC relating the TCM using the Subaru Select Monitor.	Is DTC U0155 or U0423 displayed?	Perform the self-diagnosis of combination meter.	Go to step 2.
2 CHECK DTC. Read the DTC relating the TCM using the Subaru Select Monitor.	Are DTCs other than U0155 and U0423 displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3 CHECK COMBINATION METER. Read DTC of combination meter.	Is DTC displayed?	Perform the diagnosis according to DTC.	Go to step 4.
4 CHECK AWD LIGHT. Turn the ignition switch to ON.	Does the AWD light illuminate?	Go to step 5.	Perform the self-diagnosis of combination meter.<Ref. to IDI-8, SELF-DIAGNOSIS DISPLAY MODE, OPERATION, Combination Meter System.>
5 CHECK AWD LIGHT. Start the engine.	Does AWD light go off after two seconds from engine start?	Current condition is normal. Go back to Basic Diagnostic Procedure.<Ref. to CVT(diag)-2, Basic Diagnostic Procedure.>	Go to step 6.
6 CHECK DTC. Read the DTC relating the TCM using the Subaru Select Monitor.	Is DTC displayed?	Perform the diagnosis according to DTC.	Go to step 7.
7 CHECK AWD LIGHT. Check the display of AWD light after engine start.	Is AWD light illuminating?	Go to step 9.	Go to step 8.
8 CHECK AWD LIGHT. Check the display of AWD light after engine start.	Is AWD light blinking at 2 Hz?	Go to step 10.	Go to step 11.
9 CHECK AWD ON/OFF SWITCHING FUNCTION. Using the Subaru Select Monitor, select the {AWD ON/OFF switching mode} in {Maintenance mode} from «Work Support», and check the current mode.<Ref. to CVT(TR580)-44, AWD ON/OFF Switching Mode.> <Ref. to CVT(TR690)-46, AWD ON/OFF Switching Mode.>	Is the message «At present, the vehicle is in AWD. Switch to FF?» displayed?	Go to step 11.	If the message «At present, the vehicle is in FF. Switch to AWD?» is displayed, select "OK", and switch to AWD mode.
10 CHECK REAR DIFFERENTIAL. Using the Subaru Select Monitor, select {Rear differential inspection mode} in {Maintenance mode} from «Work Support», and check.<Ref. to DI-64, Rear Differential Inspection Mode.>	Does AWD light go off after inspection is finished normally?	Current condition is normal. Go back to Basic Diagnostic Procedure.<Ref. to CVT(diag)-2, Basic Diagnostic Procedure.>	Go to step 11.
11 CHECK COMBINATION METER. Perform the self-diagnosis of combination meter.<Ref. to IDI-8, SELF-DIAGNOSIS DISPLAY MODE, OPERATION, Combination Meter System.>	Is there any trouble with the combination meter?	Repair the combination meter.	Check the TCM.