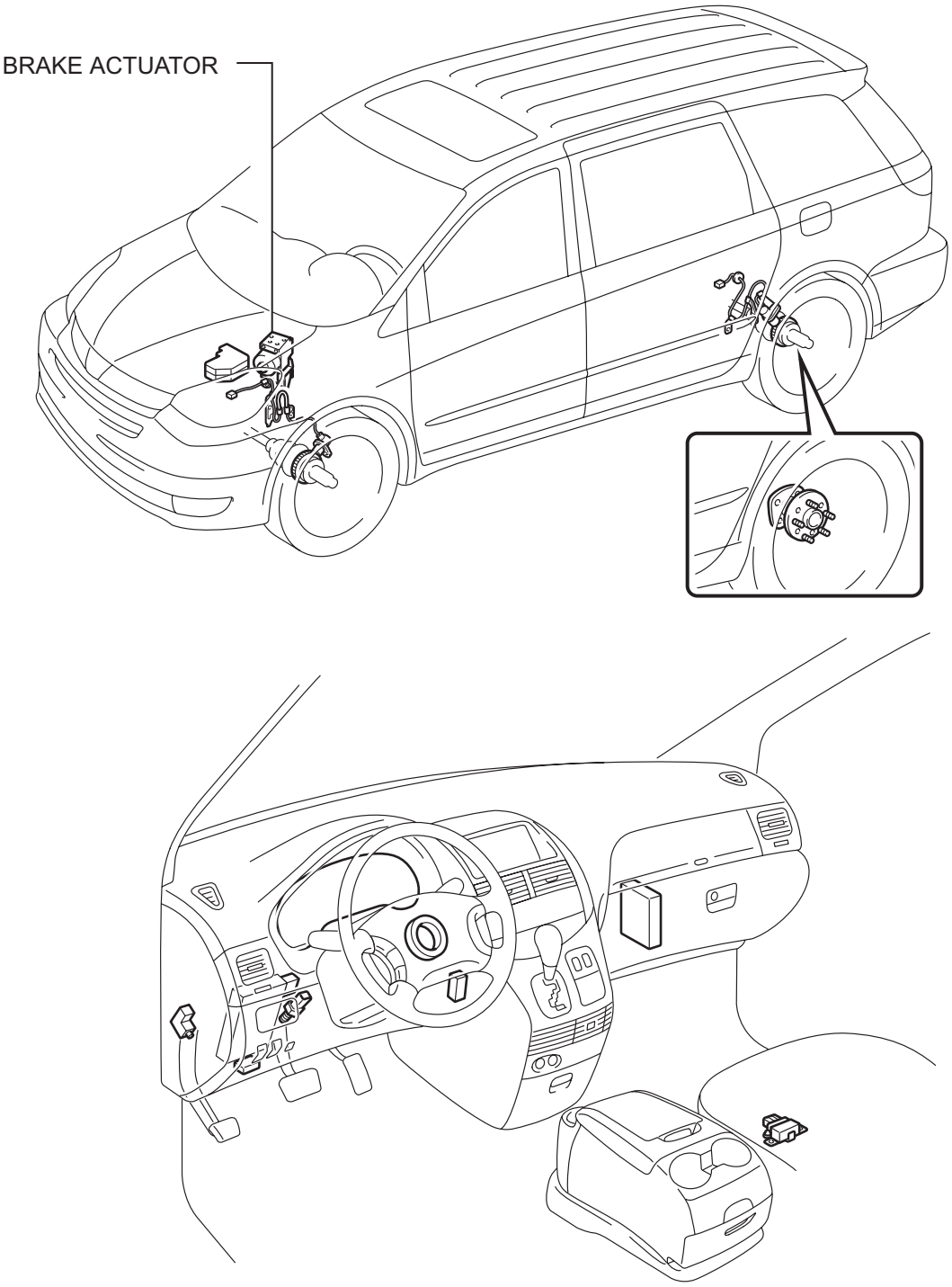
BRAKE ACTUATOR (w/ VSC)

COMPONENTS



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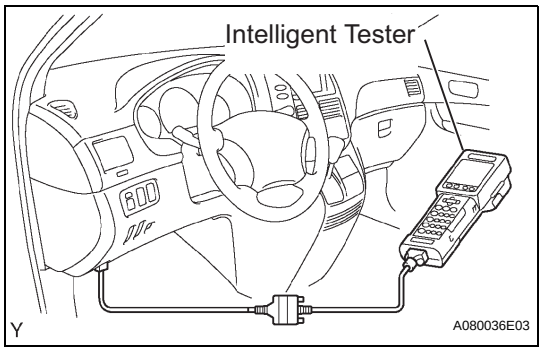

ON-VEHICLE INSPECTION

1. CONNECT INTELLIGENT TESTER

(a) Connect the intelligent tester to the DLC3.
(b) Start the engine and run at idle.
(c) Select the ACTIVE TEST mode on the intelligent tester.
HINT:
Please refer to the intelligent tester operator's manual for further details.

2. INSPECT ACTUATOR MOTOR OPERATION

(a) With the motor relay on, check the actuator motor operation noise.
(b) Turn the motor relay off.
(c) Depress the brake pedal and hold it for approximately 15 seconds. Check that the brake pedal cannot be depressed.
(d) With the motor relay on, check that the pedal does not pulsate.
NOTICE:
Do not keep the motor relay turned on for more than 5 seconds continuously. When operating it continuously, set an interval of more than 20 seconds.
(e) Turn the motor relay off and release the brake pedal.

3. INSPECT RIGHT FRONT WHEEL OPERATION

NOTICE:
Never turn on the solenoids in a manner different to those described below.
(a) With the brake pedal depressed, perform the following operations.
(b) Turn the SFRH and SFRR solenoids on simultaneously, and check that the pedal cannot be depressed.
NOTICE:
Do not keep the solenoid turned on for more than 10 seconds continuously. When operating it continuously, set an interval of more than 20 seconds.
(c) Turn the SFRH and SFRR solenoids off simultaneously, and check that the pedal can be depressed.
(d) Turn the motor relay on, and check that the pedal returns.
NOTICE:
Do not keep the motor relay turned on for more than 5 seconds continuously. When operating it continuously, set an interval of more than 20 seconds.
(e) Turn the motor relay off and release the brake pedal.

4. INSPECT OTHER WHEEL OPERATION

(a) Using the same procedure, check the solenoids of the other wheels.
HINT:
Left front wheel:
SFLH, SFLR
Right rear wheel:
SRRH, SRRR
Left rear wheel:
SRLH, SRLR