

# REPAIR INSTRUCTION INSPECTION MODE PROCEDURE

## 1. INSPECTION MODE

### Note

When operating the vehicle in inspection mode for an operation such as a speedometer test, a DTC may be set. Therefore, if the warning light comes on, after canceling inspection mode, check for DTCs using the GTS and clear the DTCs.

### Tech Tips

If the engine is warmed up and the HV battery is charged, the engine will stop after the vehicle stops. If the engine is required to run continuously even after the vehicle stops, such as for an ignition timing check, switch to maintenance mode.

- a. The following table shows the types of inspection mode that are available, their purpose and the control that occurs in each mode.

Mode (Display)	Purpose	Control
2WD MAINTENANCE MODE (2WD for measuring Exhaust Gas)	<ul style="list-style-type: none"><li>• Inspection of ignition timing etc. when performing engine maintenance, idle speed exhaust emissions testing (CO, HC), etc.</li><li>• Tests using a speedometer tester, two-wheel chassis dynamometer, etc.</li></ul>	<ul style="list-style-type: none"><li>• Keeps the engine idling when the shift lever is in P</li><li>• Cancels traction control</li></ul>
2WD CERTIFICATION MODE (2WD for cutting TRC)	Tests using a speedometer tester, two-wheel chassis dynamometer, etc.	Cancels traction control

### b. Vehicle conditions

- i. Before activating inspection mode, turn the air conditioning off, start the hybrid system with the shift lever in P, and check that the engine stops within several seconds after starting (engine warm up check).

- ii. Activate the appropriate inspection mode and inspect the vehicle:

Test Item	Mode
1. Vehicle straight traveling test (side slip inspection)	Maintenance mode or normal mode
2. Braking force test	Normal mode
3. Speedometer test	Maintenance mode
4. Exhaust gas test (idling)	Maintenance mode
5. Headlight test	Maintenance mode or normal mode

- iii. Cancel inspection mode immediately after completion of inspection.

## Note

Driving the vehicle without canceling inspection mode may damage the transmission.

### c. Special notes for speedometer test

#### CAUTION:

Be sure to perform the test in maintenance mode.

#### Note

Do not perform rapid starting or quick acceleration on a speedometer tester. If rapid starting or quick acceleration is performed on a speedometer tester, damage may occur to the transmission.

- i. Depress the accelerator pedal slowly and gradually accelerate the vehicle. Make a measurement.
- ii. After the measurement, use the brakes to gradually decelerate the vehicle.

### d. Special notes for using a chassis dynamometer

#### CAUTION:

Be sure to perform the inspection in maintenance mode.

#### Note

Sudden acceleration or deceleration of the vehicle on a chassis dynamometer under minimal load may damage the transmission.

- i. Always set an appropriate load before starting the test.

### e. Activating maintenance mode (Not using the GTS)

#### i. Perform steps (A) through (D) in 60 seconds.

1. Turn the power switch on (IG). (Step A)
2. Fully depress the accelerator pedal twice with the shift lever in P. (Step B)
3. Fully depress the accelerator pedal twice with the shift lever in N. (Step C)
4. Fully depress the accelerator pedal twice with the shift lever in P. (Step D)

- ii. Check that "2WD MAINTENANCE MODE" is displayed on the multi-information display.
- iii. Start the engine by turning the power switch on (READY) while depressing the brake pedal.

#### Tech Tips

The idle speed in maintenance mode is approximately 1000 rpm with the shift lever in P. The engine speed increases to 1500 rpm when the accelerator pedal is depressed midway with the shift lever in P. When the accelerator pedal is depressed more than midway, or when the accelerator pedal is fully depressed, the engine speed increases to approximately 2500 rpm.

### f. Activating maintenance mode (Using the GTS)

- i. Connect the GTS to the DLC3.
- ii. Turn the power switch on (IG).
- iii. Turn the GTS on.
- iv. Enter following menus: Powertrain / Hybrid Control / Utility / Inspection Mode - 2WD for measuring Exhaust Gas.
- v. Check that "2WD MAINTENANCE MODE" is displayed on the multi-information display.
- vi. Start the engine by turning the power switch on (READY) while depressing the brake pedal.

#### Tech Tips

The idle speed in maintenance mode is approximately 1000 rpm with the shift lever in P. The engine speed increases to 1500 rpm when the accelerator pedal is depressed midway with the

shift lever in P. When the accelerator pedal is depressed more than midway, or when the accelerator pedal is fully depressed, the engine speed increases to approximately 2500 rpm.

**g. Activating certification mode (Not using the GTS)**

**i. Perform steps (A) through (D) in 60 seconds.**

1. Turn the power switch on (IG). (Step A)
2. Fully depress the accelerator pedal 3 times with the shift lever in P. (Step B)
3. Fully depress the accelerator pedal 3 times with the shift lever in N. (Step C)
4. Fully depress the accelerator pedal 3 times with the shift lever in P. (Step D)

**ii. Check that "2WD CERTIFICATION MODE" is displayed on the multi-information display.**

**iii. Start the engine by turning the power switch on (READY) while depressing the brake pedal.**

**h. Activating certification mode (Using the GTS)**

**i. Connect the GTS to the DLC3.**

**ii. Turn the power switch on (IG).**

**iii. Turn the GTS on.**

**iv. Enter following menus: Powertrain / Hybrid Control / Utility / Inspection Mode - 2WD for cutting TRC.**

**v. Check that "2WD CERTIFICATION MODE" is displayed on the multi-information display.**

**vi. Start the engine by turning the power switch on (READY) while depressing the brake pedal.**

**i. Deactivating inspection mode**

**i. Turn the power switch off and wait at least 30 seconds. The hybrid system will turn off simultaneously.**

**Note**

- If a DTC is set during inspection mode, the master warning light will illuminate and a warning message will appear on the multi-information display.
- If the master warning light and the warning message illuminate during inspection mode, cancel inspection mode, and check for DTCs.
- Driving the vehicle without canceling inspection mode may damage the transmission.