

WORK PROCEDURE (ADDITIONAL SE...

Work Procedure


WARNING:

Never move the vehicle during "**DAST CALIBRATION (MODE1)**" because the steering gear is held in neutral position until ignition switch is turned OFF.

CAUTION:

- Be careful for the moving parts, steering wheel and front wheels are steered automatically when start "**DAST CALIBRATION (MODE1)**".
- Do not rotate road wheels during the **DAST** calibration because the system is detected the vehicle running.

1. CHECK OFF-CENTER (1)

 With CONSULT

1. Set the vehicle to the straight-ahead position.
2. Turn the ignition switch ON.

CAUTION:

Never start the engine.

3. On the CONSULT screen, select "EPS/**DAST** 3">>"DATA MONITOR">>"ST ANGLE SENSOR", and then and then check the value.

Monitor item	Standard value
ST ANGLE SENSOR	ST ANGLE SENSOR $\leq \pm 120$ deg

Is the inspection result normal?

YES>>

[GO TO 2](#) .

NO>>

- Refer to [Diagnosis Procedure](#) to correct off-center and then, [GO TO 2](#) .

CAUTION:

Proceeding to the next step with off-center bigger than 120 deg causes the spiral cable to be torn off.

2. PREPARATION

1. Set the front wheel on the turn table.



NOTE:

Do not lift up the vehicle during "DAST CALIBRATION (MODE1)**"**

2. Connect the battery charger to protect the battery.



NOTE:

Much electricity is used in "DAST CALIBRATION (MODE1)".


3. Connect the CONSULT.
4. Turn the ignition switch ON.

CAUTION:
Never start the engine.

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[GO TO 3](#) .

3. ECU CONFIGURATION

 With CONSULT

1. Perform configuration for steering force control module. Refer to [Work Procedure](#) .



NOTE:
The replacement of control module included in configuration is not required.

2. Perform configuration for steering angle main control module. Refer to [Work Procedure](#) .



NOTE:
The replacement of control module included in configuration is not required.

3. Perform configuration for steering angle sub control module. Refer to [Work Procedure](#) .



NOTE:
The replacement of control module included in configuration is not required.

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[GO TO 4](#) .

4. DAST CALIBRATION (MODE1) [CLUTCH PHASE LEARNING]

 With CONSULT

1. Perform "DAST CALIBRATION (MODE1)". Refer to [Description](#) .
2. Turn the ignition switch OFF.

CAUTION:
Be sure to perform this step.

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[GO TO 5](#) .

5. CHECK OFF-CENTER (2)

 With CONSULT



NOTE:
This confirmation is procedure to confirm that the steering wheel is not rotated 360 deg when performing the DAST calibration.

CAUTION:

Proceeding to the next step with the steering wheel rotated 360 deg causes the spiral cable to be torn off.

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. On the CONSULT screen, select "EPS/DAST 3">>"DATA MONITOR">>"ST ANGLE SENSOR", and then and then check the value.

Monitor item	Standard value
ST ANGLE SENSOR	ST ANGLE SENSOR $\leq \pm 20$ deg

Is the inspection result normal?

YES>>

[GO TO 7](#) .

NO>>

[GO TO 6](#) .

6. CORRECT STEERING WHEEL NEUTRAL POSITION

 With CONSULT

1. Separate steering upper shaft from steering clutch assembly. And then, turn the steering wheel to the direction that the value returns to 0 deg with checking "ST ANGLE SENSOR" on "DATA MONITOR".
2. Connect steering clutch assembly and steering upper shaft. Refer to [Removal and Installation](#) .

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Re-perform the work from configuration to reset the learning information of clutch phase learning. [GO TO 3](#) .

7. DAST CALIBRATION (MODE1) [STEERING RACK NEUTRAL POSITION LEARNING]

 With CONSULT

Perform "DAST CALIBRATION (MODE1)". Refer to [Description](#) .

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[GO TO 8](#) .

8. ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION

 With CONSULT

1. On the CONSULT screen, select "ABS">>"WORK SUPPORT">>"ST ANGLE SENSOR ADJUSTMENT".
2. Touch START.

CAUTION:

Never touch steering wheel while adjusting steering angle sensor.

3. After approx. 10 seconds, select "END".
4. Turn ignition switch OFF, and then turn it ON again.


CAUTION:

Be sure to perform this step.

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[GO TO 9](#) .

9. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Turn ignition switch OFF and wait at least 10 seconds.
2. Start the engine.

CAUTION:
Never drive the vehicle.

3. Perform self-diagnosis for "EPS/DAST 3", "DAST 1" and "DAST 2".

Is any DTC detected?


YES>>

When other than above DTC is detected, perform Perform trouble diagnosis for the detected DTC. Refer to [DTC Index](#) (EPS/DAST 3), [DTC Index](#) (DAST 1), [DTC Index](#) (DAST 2).

NO>>

[GO TO 10](#) .

10. FINAL CONFIRMATION

 With CONSULT

1. Turn the ignition switch OFF to ON.

CAUTION:
Never start the engine.

2. On the CONSULT screen, select "EPS/DAST 3">>"DATA MONITOR">>"ANGLE 1",and then and then check the value.

Monitor item	Standard value
ANGLE 1	$-4.4 \leq \text{ANGLE 1} \leq 4.4$

Is the confirmation result normal?

YES>>

WORK END

NO>>

Slightly lower the tilt position, and then re-perform "[DAST CALIBRATION \(MODE1\)](#)". [GO TO 3](#) .

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