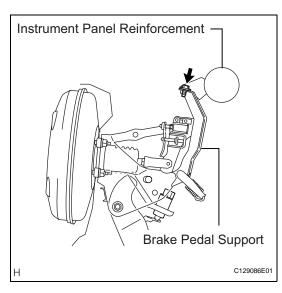
REMOVAL

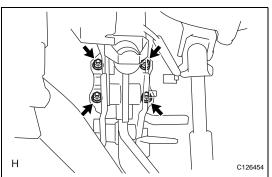
1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

- 2. REMOVE INSTRUMENT PANEL SUB-ASSEMBLY
 - (a) Remove the instrument panel (see page IP-4).
- 3. DISCONNECT CONNECTORS
 - (a) Disconnect the stop light switch connector.
 - (b) w/ ϕ 296 disc brake: Disconnect the brake pedal load sensing switch connector.
- 4. REMOVE STOP LIGHT SWITCH ASSEMBLY
 - (a) Turn the switch counterclockwise and remove it.
- 5. REMOVE PUSH ROD PIN
 - (a) Remove the clip from the push rod pin.
 - (b) Remove the push rod pin from the push rod clevis.
 - . REMOVE BRAKE PEDAL SUPPORT ASSEMBLY
 - (a) Remove the bolt from the support.





(b) Remove the 4 nuts and support.

BR

DISASSEMBLY

- 1. REMOVE STOP LIGHT SWITCH MOUNTING ADJUSTER
 - (a) Remove the adjuster from the support.
- 2. REMOVE BRAKE PEDAL PAD
 - (a) Remove the pad from the pedal.

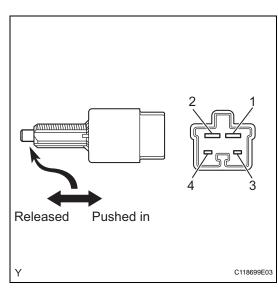
INSPECTION

- 1. INSPECT STOP LIGHT SWITCH ASSEMBLY
 - (a) Measure the resistance of the switch.

Standard resistance

Tester Connection	Switch Condition	Specified Condition
1 - 2	Switch pin released	Below 1 Ω
1 - 2	Switch pin pushed in	10 k Ω or higher

If the result is not as specified, replace the stop light switch assembly.



ADJUSTMENT

(2005/11-2006/01)

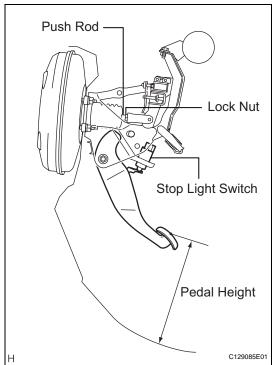


(a) Check the pedal height.

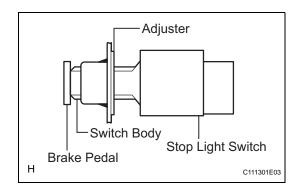
Standard pedal height from dash panel: 184.2 to 194.2 mm (7.252 to 7.646 in.)

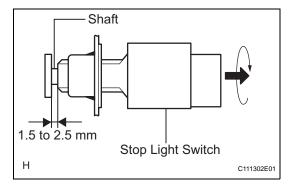
- (b) Adjust the pedal height.
 - (1) Disconnect the connector from the stop light switch.
 - (2) Remove the switch.
 - (3) Loosen the push rod clevis lock nut.
 - (4) Adjust the pedal height by turning the push rod.
 - (5) Tighten the lock nut.

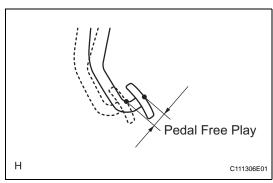
Torque: 26 N*m (265 kgf*cm, 19 ft.*lbf)











(6) Insert the switch into the adjuster until the switch body touches the pedal.

NOTICE:

Do not depress the pedal.

(7) Turn the switch a quarter turn clockwise.

Torque: 1.5 N*m (15 kgf*cm, 13 in.*lbf) or less

NOTICE:

Do not depress the pedal.

- (8) Connect the connector to the switch.
- (9) Check the switch clearance.

Standard stop light switch clearance: 1.5 to 2.5 mm (0.059 to 0.098 in.)

2. CHECK BRAKE PEDAL FREE PLAY

- (a) Stop the engine. Depress the pedal several times until there is no vacuum in the booster. Then release the pedal.
- (b) Depress the pedal until resistance is felt.
- (c) Check the pedal's free play by measuring the distance between the position in the previous step and the pedal's released position.

Standard pedal free play:

1.0 to 6.0 mm (0.039 to 0.236 in.)

If the free play is not as specified, check the switch clearance in the next step.

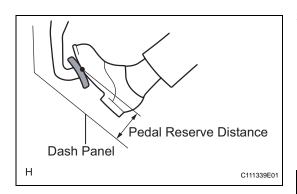
If the free play is as specified, proceed to the "CHECK BRAKE PEDAL RESERVE DISTANCE" procedure.

(d) Check the switch clearance.

Standard stop light switch clearance:

1.5 to 2.5 mm (0.059 to 0.098 in.)

If the clearance is not as specified, reinstall the switch and recheck the pedal's free play. If the clearance is as specified, troubleshoot the brake system and proceed to the "CHECK BRAKE PEDAL RESERVE DISTANCE" procedure.



3. CHECK BRAKE PEDAL RESERVE DISTANCE

- (a) Release the parking brake lever. Start the engine.
- (b) Depress the pedal and check the pedal reserve distance.
 - (1) Depress the pedal with a force of 490 N (50 kgf, 110 lbf).
 - (2) Measure the distance between the pedal and dash panel shown in the illustration.

Standard pedal reserve distance

Engine	Seat Type	Specified Condition
2AZ-FE	w/o 3rd seat	More than 95 mm (3.74 in.)
	w/ 3rd seat	More than 120 mm (4.72 in.)

If the distance is not as specified, troubleshoot the brake system.



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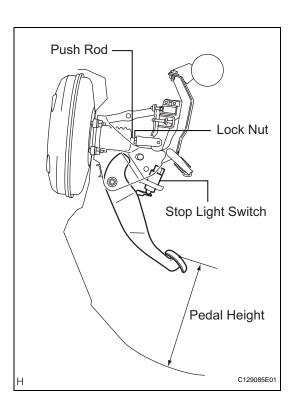


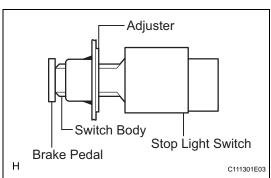
(a) Check the pedal height.

Standard pedal height from dash panel: 184.2 to 194.2 mm (7.252 to 7.646 in.)

- (b) Adjust the pedal height.
 - (1) Disconnect the connector from the stop light switch.
 - (2) Remove the switch.
 - (3) Loosen the push rod clevis lock nut.
 - (4) Adjust the pedal height by turning the push rod.
 - (5) Tighten the lock nut.

Torque: 26 N*m (265 kgf*cm, 19 ft.*lbf)



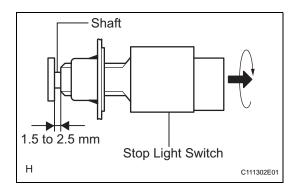


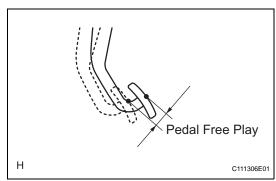
(6) Insert the switch into the adjuster until the switch body touches the pedal.

NOTICE:

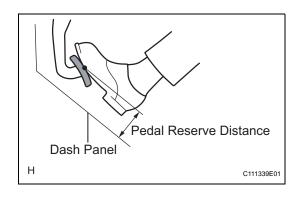
Do not depress the pedal.











(7) Turn the switch a quarter turn clockwise.

Torque: 1.5 N*m (15 kgf*cm, 13 in.*lbf) or less

NOTICE:

Do not depress the pedal.

- (8) Connect the connector to the switch.
- (9) Check the switch clearance.

Standard stop light switch clearance: 1.5 to 2.5 mm (0.059 to 0.098 in.)

2. CHECK BRAKE PEDAL FREE PLAY

- (a) Stop the engine. Depress the pedal several times until there is no vacuum in the booster. Then release the pedal.
- (b) Depress the pedal until resistance is felt.
- (c) Check the pedal's free play by measuring the distance between the position in the previous step and the pedal's released position.

Standard pedal free play:

1.0 to 6.0 mm (0.039 to 0.236 in.)

If the free play is not as specified, check the switch clearance in the next step.

If the free play is as specified, proceed to the "CHECK BRAKE PEDAL RESERVE DISTANCE" procedure.

(d) Check the switch clearance.

Standard stop light switch clearance: 1.5 to 2.5 mm (0.059 to 0.098 in.)

If the clearance is not as specified, reinstall the switch and recheck the pedal's free play. If the clearance is as specified, troubleshoot the brake system and proceed to the "CHECK BRAKE PEDAL RESERVE DISTANCE" procedure.

3. CHECK BRAKE PEDAL RESERVE DISTANCE

- (a) Release the parking brake lever. Start the engine.
- (b) Depress the pedal and check the pedal reserve distance.
 - (1) Depress the pedal with a force of 490 N (50 kgf, 110 lbf).
 - (2) Measure the distance between the pedal and dash panel shown in the illustration.

Standard pedal reserve distance

Engine	Specified Condition
2AZ-FE (w/o 3rd seat)	More than 95 mm (3.74 in.)
2AZ-FE (w/ 3rd seat)	More than 120 mm (4.72 in.)
2GR-FE	More than 120 mm (4.72 in.)

If the distance is not as specified, troubleshoot the brake system.