

TO: ALL TOYOTA DEALER PRINCIPALS,
SERVICE MANAGERS, PARTS MANAGERS

SUBJECT: SPECIAL SERVICE CAMPAIGN (SSC) ☐ 10L
(BRAKE BOOSTER AND FRONT BRAKE PAD REPLACEMENT
ON 2000 MY ECHO EQUIPPED WITH AUTOMATIC TRANSMISSION)

Toyota will initiate a Special Service Campaign (SSC) to replace the brake booster and front brake pads on certain 2000 MY Echo vehicles equipped with automatic transmission.

On certain 2000 Model Year Toyota Echo vehicles equipped with an automatic transmission, due to a unique combination of conditions which consist of cold ambient temperatures, load applied from the air conditioner and other electrical devices, and immediately after starting the engine, there is a possibility that the vacuum in the intake manifold may be insufficient for the brake booster. In the worst case, when the brake is applied under this combination of conditions, vacuum assist to the brakes would decrease, and the increased pedal pressure required could lead to an increase in vehicle stopping distance.

The following vital information is provided to inform you and your staff of the campaign notification schedule and your degree of involvement.

1. Owner Notification Letter Mailing Date

The owner notification will commence in late October. We have attached a copy of the owner notification letter for your reference.

If you are contacted by an owner of an involved vehicle, who has not yet received a notification, please verify eligibility by referring to the VIN list and confirming through TDN or TIS prior to performing repairs. Perform repairs as outlined in the attached Technical Instructions.

2. Identification of Involved Vehicles

Nationally, there are approximately 42,000 ECHO vehicles which are affected by this condition.

MODEL	YEAR	VIN Range*	
		VDS	Range
Echo	2000	AT123	Y0001052 ☐ Y0100216 Y5000030 ☐ Y5018894
		AT183	Y0056371 ☐ Y0058962
		BT123	Y0001049 ☐ Y0100245 Y5000006 ☐ Y5021183
		BT183	Y0056290 ☐ Y0058934

***Not all vehicles in the VIN range are affected by this condition. Always consult TDN or TIS to confirm VIN eligibility and to assure the repair is applicable. Also, please follow the inspection procedure in the Technical Instructions to ensure the countermeasure has not already been performed.**

3. Vehicles in Dealer Stock

As required by Federal Regulations, dealers are not to deliver any vehicle acquired in their inventory, which is involved in a safety recall, until the necessary repairs have been performed.

4. Dealer/Owner Lists

Dealer/Owner Lists for this campaign have been distributed to each dealership's Service and Parts Managers. These lists are based on selling dealership. Dealerships which did not sell an affected vehicle or do not have affected vehicles in stock will receive a report indicating so.

5. Repair Procedures

Refer to the attached Technical Instructions.

6. Parts Ordering

The necessary parts can be ordered through your facing PDC. Please refer to the table below and the Technical Instructions for part number information.

Model	Part Number	Description	Qty/ Vehicle
ECHO	04001-26252	Brake Booster Kit	1
	04001-26152	Front Brake Pad Kit	1
	00475-1BF03	Toyota Brake Fluid	2

To prevent parts shortages and excess parts stock at dealerships, the Suggested Initial Parts Order Quantity has been provided on each Dealer/Owner List (sent to each dealer's Service and Parts Managers) as a guide. This will assure adequate and balanced parts inventory for this SSC.

7. Reimbursement Procedures

Submit Special Service Campaign claims following the procedures described in the Toyota Warranty Policy and Procedures Manual.

The operation codes to be used for this campaign are as follows:

SSC #	Model	Op. Code	Description	Flat Rate Hour
10L	ECHO	1501K1	Replace Brake Booster and Front Brake Pads	3.1 Hr/Veh

NOTE: The above flat rate time includes 0.1 hours of administrative cost per unit for the dealership.

Please review this entire package with your Service and Parts staff to familiarize them with the proper step-by-step procedures required to implement this Special Service Campaign.

Thank you for your cooperation.

TOYOTA MOTOR SALES, U.S.A., INC.



2000 MODEL YEAR ECHO BRAKE BOOSTER SAFETY RECALL NOTICE

Dear Toyota Customer:

This notice is being sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Toyota has determined that a defect, which relates to motor vehicle safety, exists in certain 2000 Model Year Toyota Echo vehicles equipped with an automatic transmission.

WHAT IS THE PROBLEM?

On certain 2000 Model Year Toyota Echo vehicles equipped with an automatic transmission, due to a unique combination of conditions which consist of cold ambient temperatures, load applied from the air conditioner and other electrical devices, and immediately after starting the engine, there is a possibility that the vacuum in the intake manifold may be insufficient for the brake booster. In the worst case, when the brake is applied under this combination of conditions, vacuum assist to the brakes would decrease, and the increased pedal pressure required could lead to an increase in vehicle stopping distance.

WHAT WILL TOYOTA DO?

Any Toyota dealer will replace the brake booster and front brake pads at **NO COST** to you.

WHAT SHOULD YOU DO?

As your dealer must make arrangements to assure the necessary parts are in stock, please contact your authorized Toyota dealer to make an appointment.

The labor time necessary is approximately three hours. However, depending upon the dealer's work schedule, it may be necessary to make your vehicle available for a longer period of time.

Please present this notice to the Toyota Dealer when you bring the vehicle in for your service appointment.

If you no longer own the vehicle, please indicate so on the enclosed postage paid form, providing us with the name and address of the new owner.

WHAT IF YOU HAVE OTHER QUESTIONS?

Please contact any Toyota dealer or call the Toyota Customer Assistance Center at 1-800-331-4331.

If you believe that the dealer or Toyota has failed or is unable to remedy the defect within a reasonable time, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street S.W., Washington, D.C. 20590, or call the toll free Auto Safety Hot Line at 888-327-4236.

We have sent this notice in the interest of your continued satisfaction with our products, and we sincerely regret any inconvenience this condition may have caused you.

Thank you for driving the Toyota Echo.

Sincerely,

TOYOTA MOTOR SALES, U.S.A., INC.

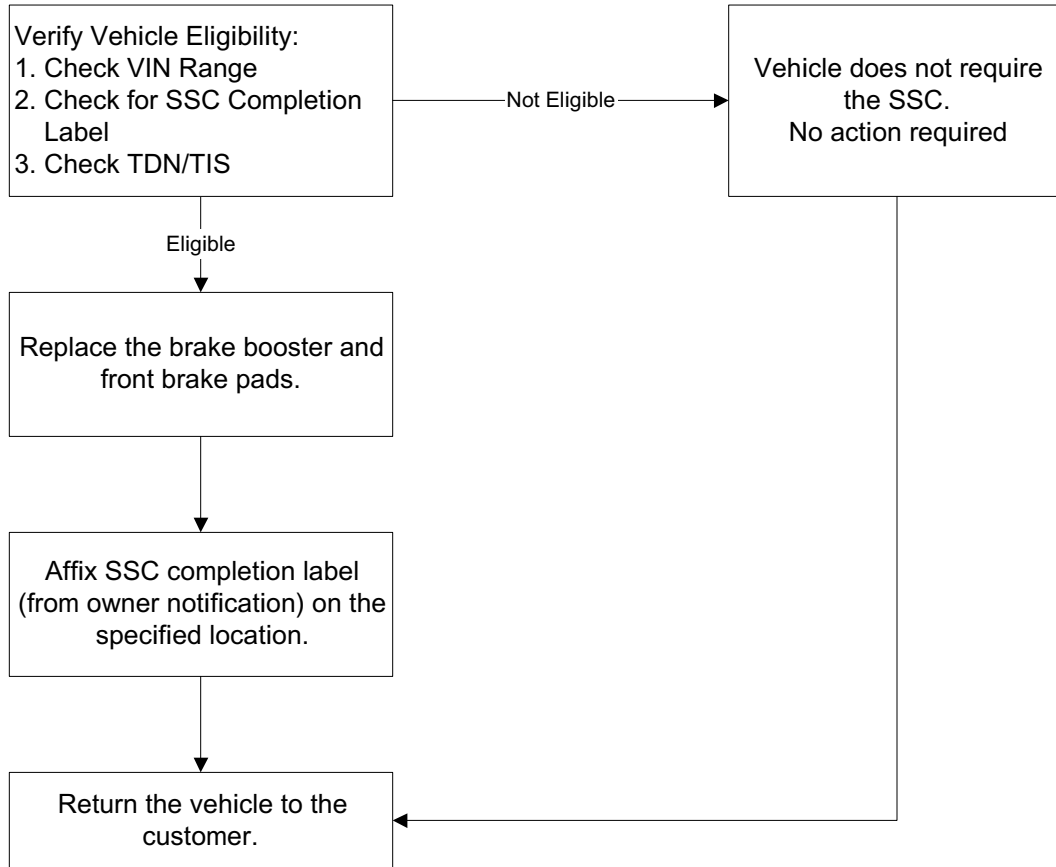
TECHNICAL INSTRUCTIONS

FOR

SPECIAL SERVICE CAMPAIGN 10L

**2000 ECHO EQUIPPED WITH AUTOMATIC TRANSMISSION
BRAKE BOOSTER AND FRONT BRAKE PAD REPLACEMENT**

I. OPERATION FLOW CHART



II. AFFECTED VIN RANGE

MODEL	YEAR	VIN Range	
		VDS	Range
ECHO	2000	AT123	Y0001102 ☐ Y0100216 Y5000030 ☐ Y5018894
		AT183	Y0056411 ☐ Y0058962
		BT123	Y0001049 ☐ Y0100245 Y5000006 ☐ Y5021183
		BT183	Y0056321 ☐ Y0058934

NOTE: Not all vehicles in the VIN range are affected. Always verify eligibility through TDN or TIS prior to performing repairs.

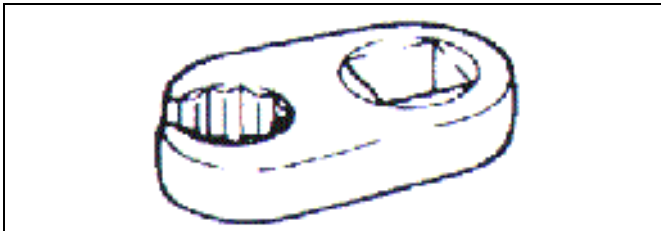
Only ECHO☐s equipped with automatic transmissions are affected by this SSC.

III. PREPARATION

A. PARTS

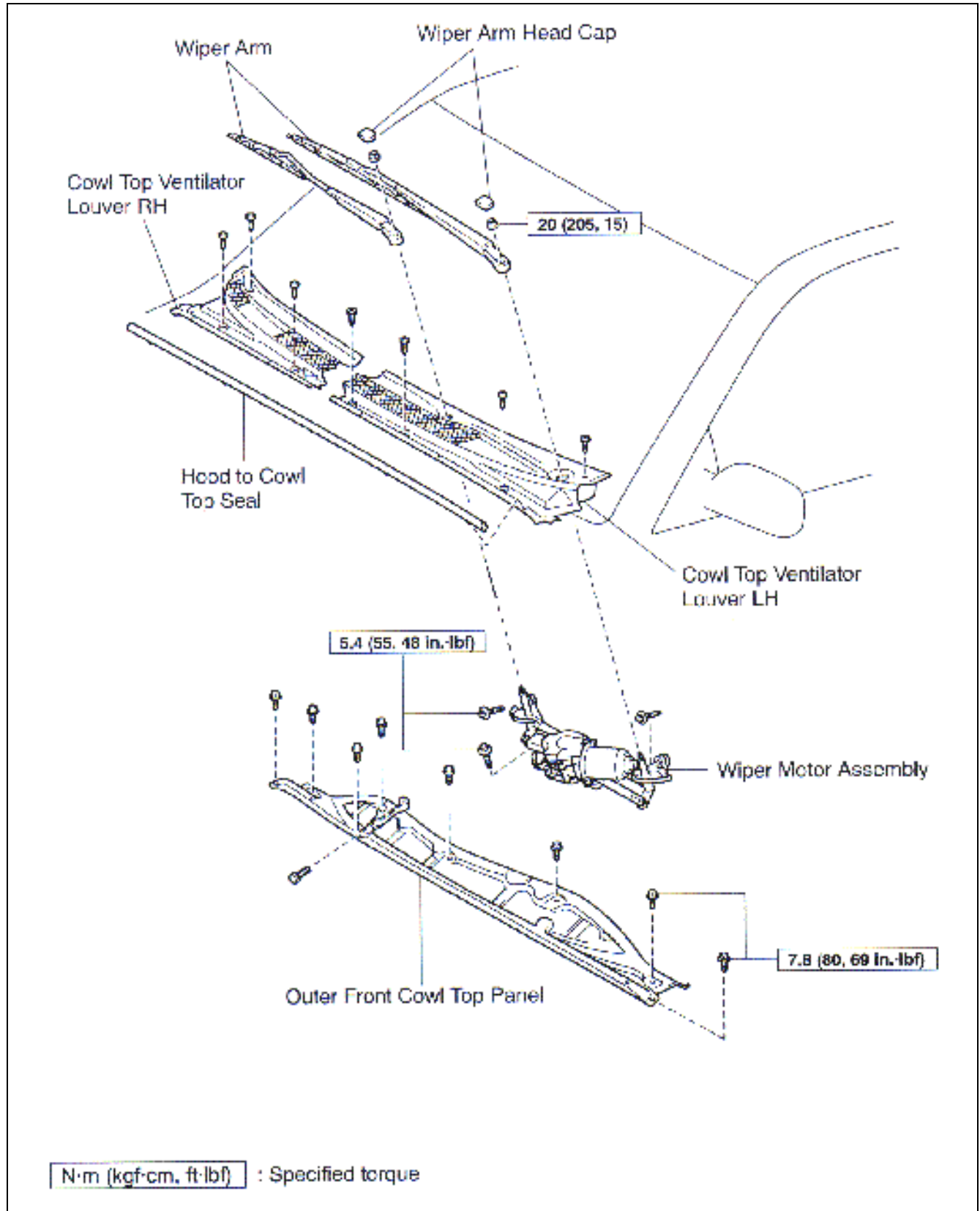
Model	Part Number	Description	Qty/ Vehicle
ECHO	04001 - 26252	Brake Booster Kit	1
	04001 - 26152	Front Brake Pad Kit	1
	00475 - 1BF03	Brake Fluid	2

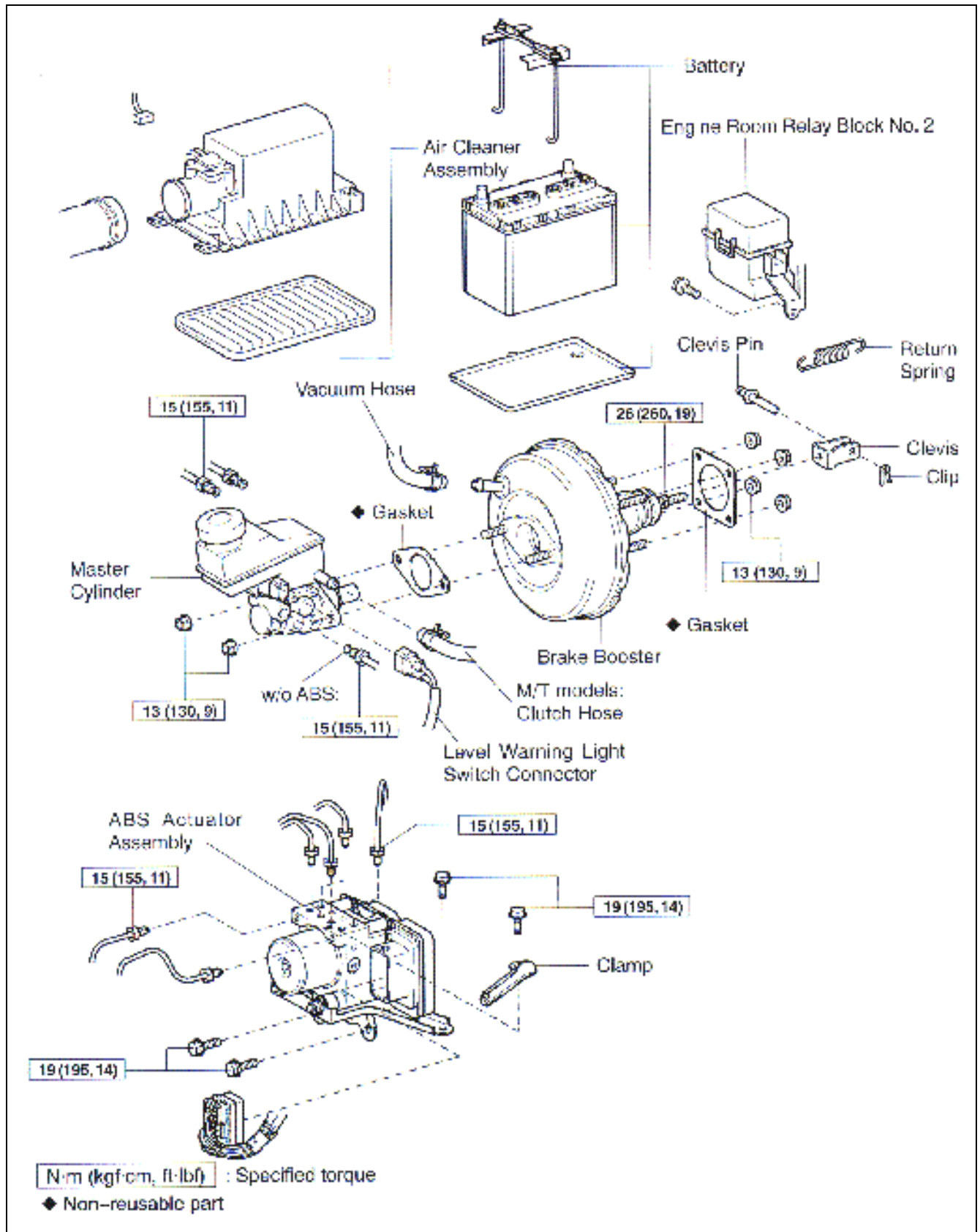
B. TOOLS

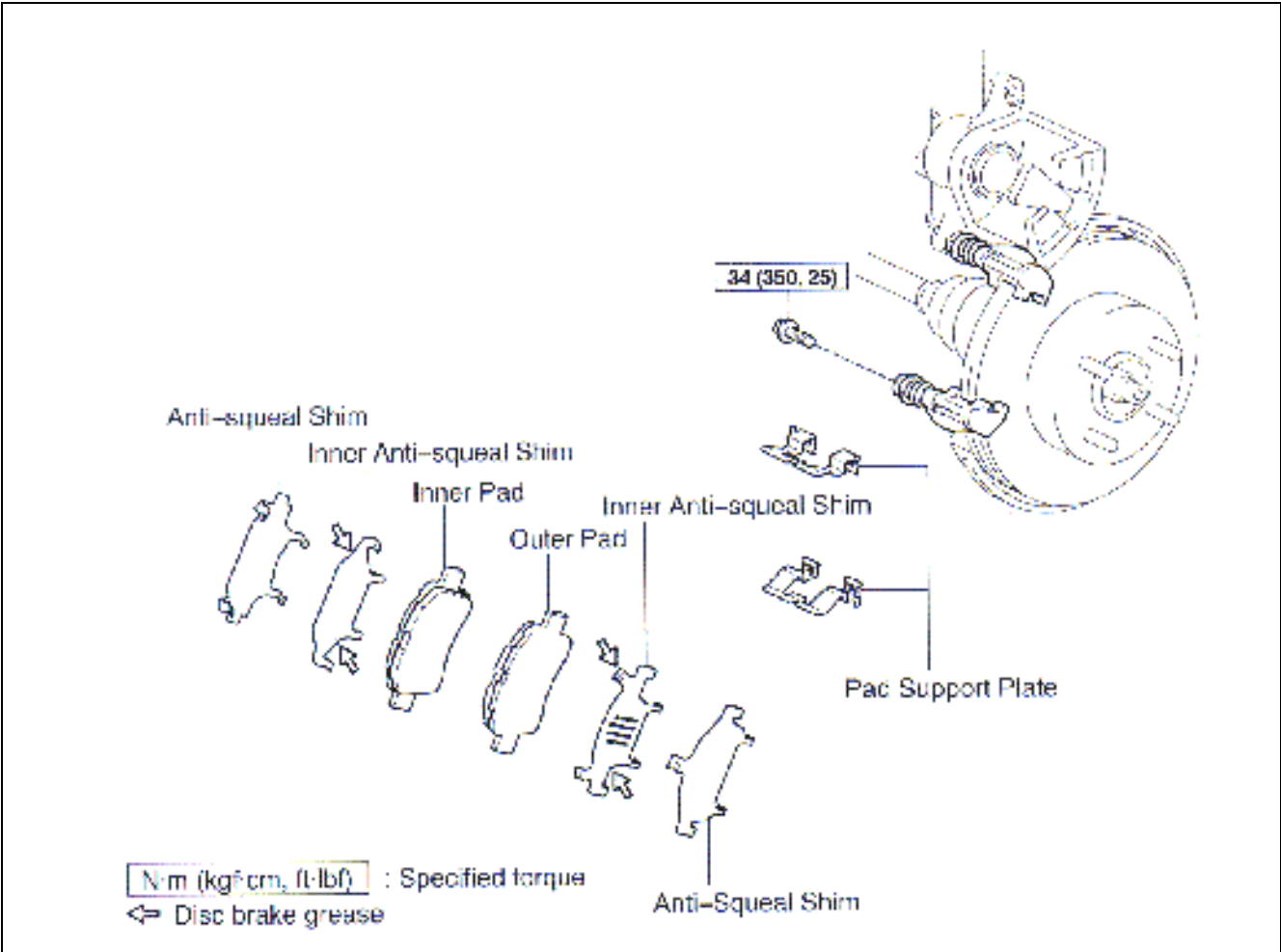


Standard Hand Tools
Torque Wrench
SST: 09023 ☐ 00100 Union Nut Wrench
(or equivalent)

C. LOCATION



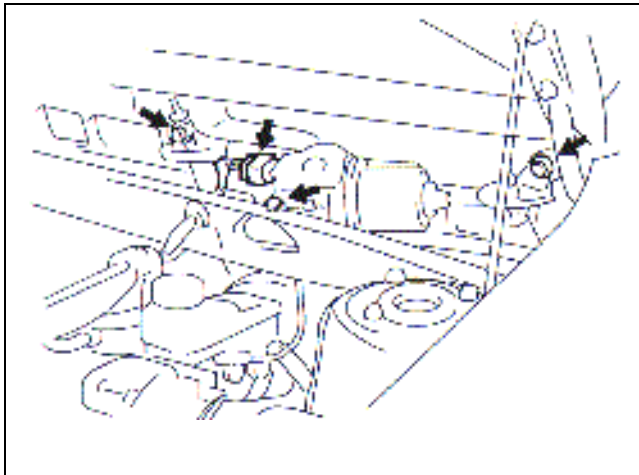




IV. WORK PROCEDURE

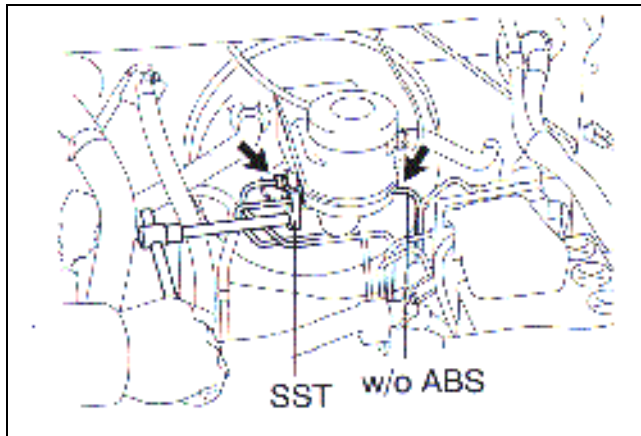
1. REMOVE THE BRAKE BOOSTER


- (a) Remove the wiper arms.
 1. Remove the 2 wiper arm caps.
 2. Remove the 2 nuts holding the wiper arms to the shafts.
 3. Remove the two wiper arms.
- (b) Remove the top cowl ventilation louvers.
 1. Remove the top cowl seal.
 2. Remove the 7 clips.
 3. Remove the left and right top cowl ventilation louvers.
- (c) Remove wiper motor assembly.
 1. Disconnect the connector for the wiper motor.
 2. Remove the 3 bolts for the wiper motor assembly.
- (d) Remove the outer top cowl panel.
 1. Remove the wiper motor harness with the grommet.
 2. Remove the 9 bolts for the outer top cowl panel.
 3. Unclip brake booster vacuum hose from the cowl panel.
 4. Remove the outer top cowl panel.
- (e) Disconnect the brake fluid level sensor from the master cylinder reservoir.
- (f) Remove the brake fluid from the reservoir.
 1. Using a syringe, drain the reservoir.

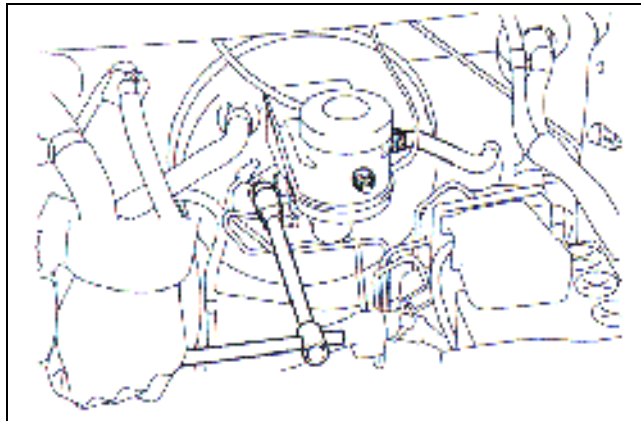


NOTE:

Immediately clean off any brake fluid spilled on painted surfaces. Brake fluid will damage the vehicle's finish.

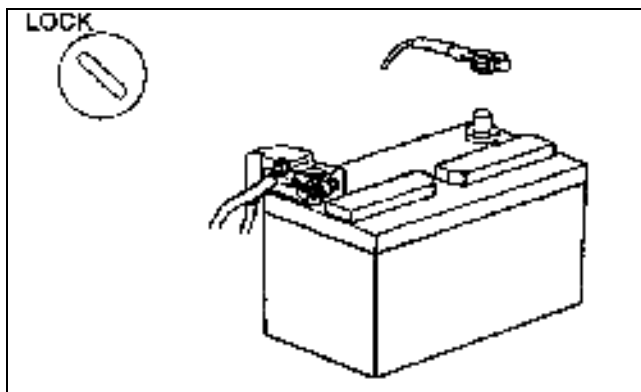


- (f) Using the SST disconnect the brake lines.
1. Disconnect the **2 (ABS) or 3 (w/o ABS)** brake lines from the master cylinder.
- SST: 09023  00100 (or equivalent)**

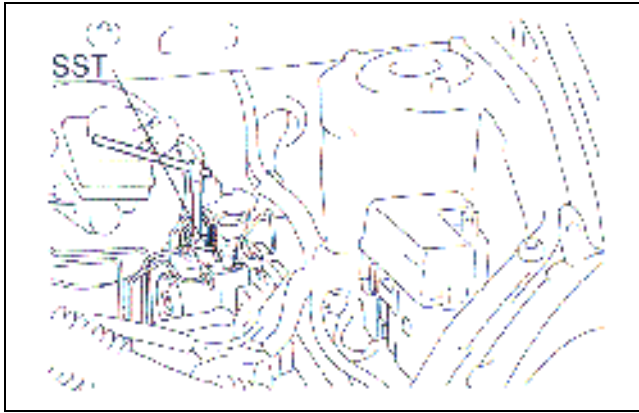


- (g) Remove the master cylinder.
1. Remove the 2 nuts holding the master cylinder to the brake booster.
 2. Remove the master cylinder and the gasket.

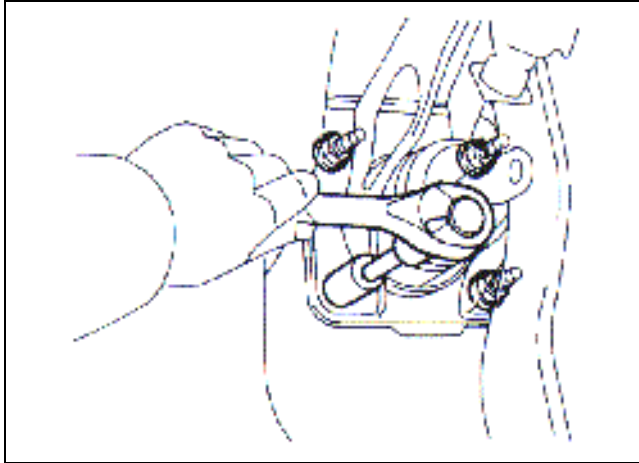
- (h) Remove the air cleaner assembly.
- (i) Disconnect the ABS actuator connector. **(if equipped)**



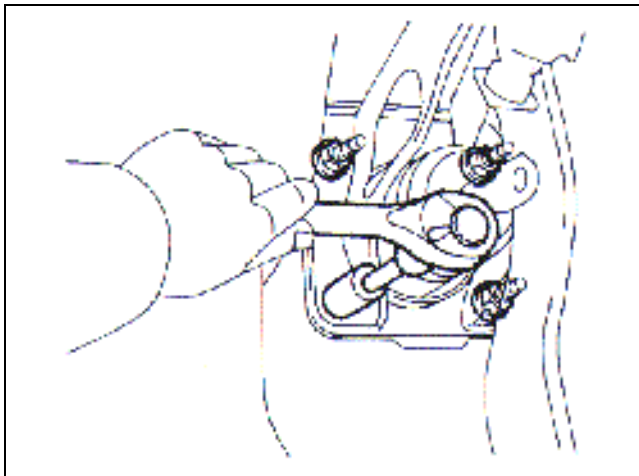
- (j) Remove the battery.
1. Disconnect the negative battery terminal.
 2. Disconnect the positive battery terminal.
 3. Remove battery hold down clamp and remove battery from the vehicle.
- (k) Remove the No. 2 relay block.
1. Remove the nuts for the No. 2 relay block.
 2. Place the No. 2 relay block aside.



- (l) Using SST disconnect the **ABS** actuator brake lines. **(if equipped)**
 1. Disconnect the 6 brake lines for the ABS actuator assembly.
 - SST: 09023 ☐ 00100 (or equivalent)**
- (m) Remove ABS actuator. **(if equipped)**
 1. Remove the 3 bolts and the actuator assembly.
- (n) Disconnect the vacuum hose for the brake booster.



- (o) Perform the following from inside the vehicle:
 1. Remove the return spring.
 2. Remove the clip and clevis pin for the brake pedal.
 3. Remove the clevis from the brake booster rod.
 4. Remove the 4 nuts for the brake booster.
- (p) Remove the booster and gasket from the engine compartment.



2. INSTALL THE NEW BRAKE BOOSTER

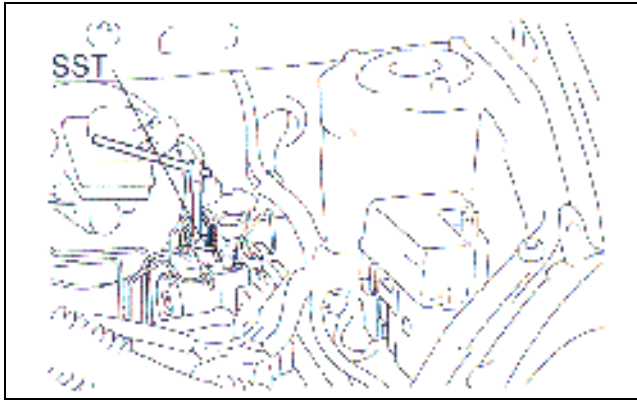
- (a) Install the new gasket onto the new booster.
- (b) Install new booster into the vehicle.
 1. Reinstall the 4 nuts.

TORQUE: 13 N•m (130 kgf•cm, 9 ft•lbf)

- (c) Reinstall the clevis and tighten the lock nut.

TORQUE: 26 N•m (260 kgf•cm, 19 ft•lbf)

- (d) Reinstall the clevis pin into the clevis and the brake pedal.
- (e) Reinstall the clevis pin clip.
- (f) Reinstall the return spring.
- (g) Reconnect the brake booster hose.



(h) Reinstall the ABS actuator assembly. **(if equipped)**

1. Reinstall the ABS actuator using the 3 bolts.

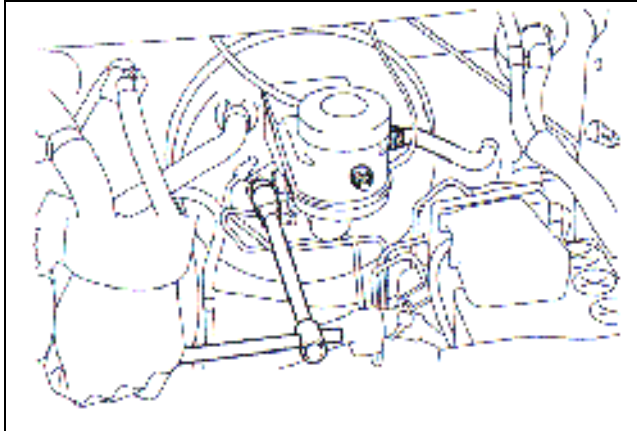
TORQUE: 19 N•m (195 kgf•cm, 14 ft•lbf)

(i) Reconnect the brake lines to the ABS actuator. **(if equipped)**

1. Reconnect the 6 brake lines to the actuator using the SST.

SST: 09023-00100

TORQUE: 15 N•m (155 kgf•cm, 11 ft•lbf)



(j) Reinstall the No. 2 relay block.

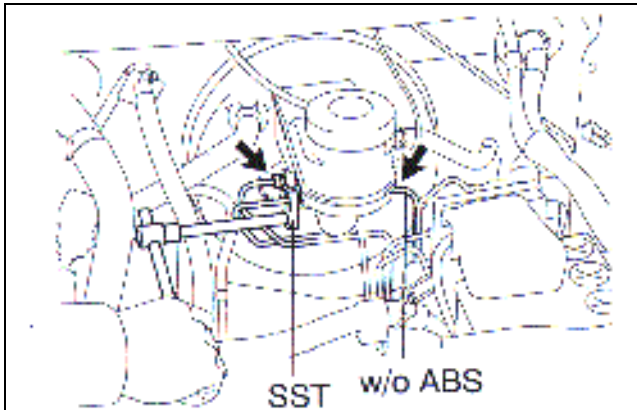
1. Reinstall the No.2 relay block using the nuts.

TORQUE: 15 N•m (155 kgf•cm, 11 ft•lbf)

(k) Reinstall the master cylinder.

1. Install the new gasket on the master cylinder.
2. Reinstall the master cylinder using the 2 nuts.

TORQUE: 13 N•m (130 kgf•cm, 9 ft•lbf)



(l) Reconnect the 2 **(ABS)** or 3 **(w/o ABS)** brake lines to the master cylinder using SST.

SST 09023-00100

TORQUE: 15 N•m (155 kgf•cm, 11 ft•lbf)

(m) Reconnect the level sensor.

(n) Reinstall the battery.

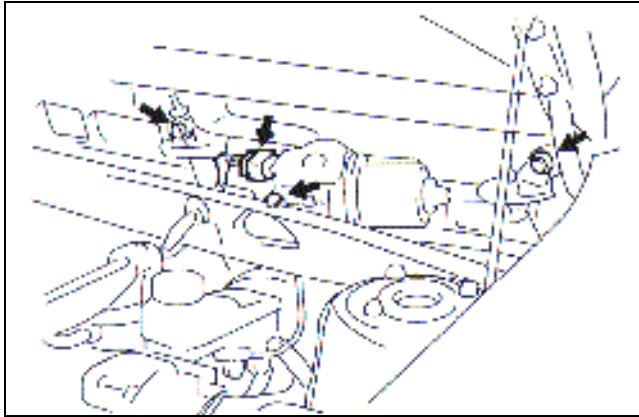
1. Reinstall battery and hold down.
2. Reconnect the positive (+) battery cable.
3. Reconnect the negative (-) battery cable.

(o) Reconnect the air cleaner assembly.

- (p) Reinstall the top cowl panel.
 1. Reinstall the top cowl panel using the 9 bolts.

TORQUE: 7.8 N•m (80 kgf•cm, 69 in•lbf)

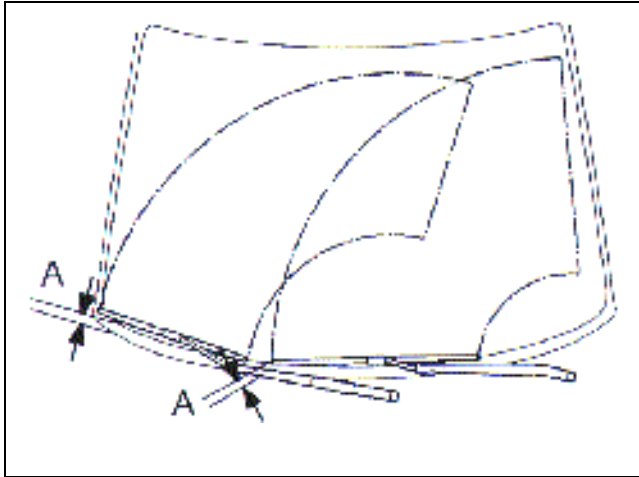
2. Reinstall the wiper motor harness and grommet.



- (q) Reinstall the wiper motor.
 1. Reinstall the wiper motor assembly using the 3 bolts.

TORQUE: 5.4 N•m (55 kgf•cm, 48 in•lbf)

2. Reconnect the wiper motor connector.



- (r) Reinstall the top cowl vent louver.
 1. Reinstall the left and right top cowl vent louver using the 7 clips.

- (s) Reinstall the top cowl seal.

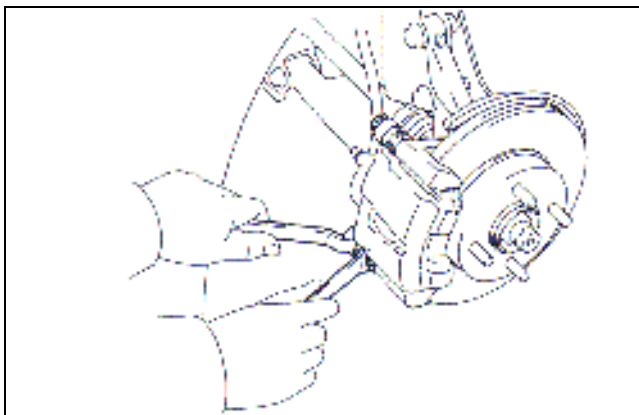
- (t) Reinstall the wiper arms.
 1. Cycle the wipers to ensure they are at the rest position.
 2. Reinstall and loosely tighten both wiper arms.
 3. Adjust the wiper arms as shown.

Distance A: 34mm (1.34 in.)

4. Tighten the wiper arm nuts.

TORQUE: 20 N•m (205 kgf•cm, 15 ft•lbf)

5. Reinstall the 2 wiper arm caps.



3. REPLACE FRONT BRAKE PADS

- (a) Remove both front wheels.
- (b) Hold the bottom sliding pin and remove the installation bolt.
- (c) Lift the caliper and suspend it securely.

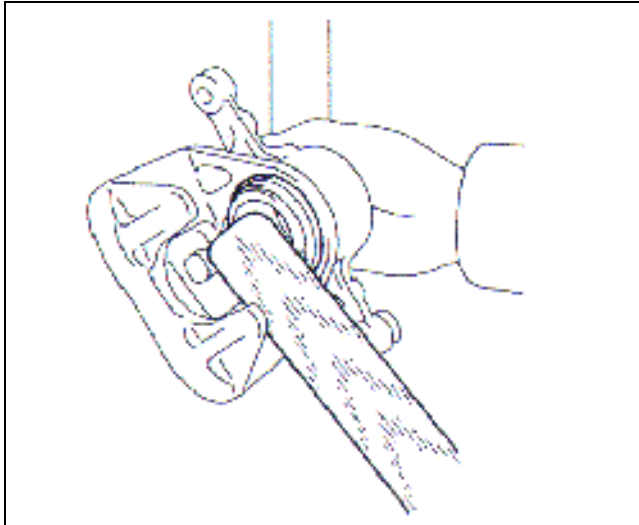
NOTE:

Do not allow the caliper to hang from the brake line.

- (d) Remove the brake pads along with the anti-squeal shims.
- (e) Remove the 2 pad support plates.

NOTE:

The support plates may be reused provided that they are not damaged, cracked or worn and have had all dirt and rust removed.



- (f) Press the caliper piston back into the caliper.

NOTE:

If the piston is difficult to push in, loosen the bleeder and allow some brake fluid to escape.

- (g) Reinstall the 2 pad support plates.
- (h) Install the new pads.

NOTE:

The anti-squeal shims and pad wear indicator plates must be replaced when replacing brake pads.

1. Apply disc brake grease to the anti-squeal shims.
2. Install the 2 anti-squeal shims to the outer pad.
3. Install 2 anti-squeal shims to the inner pad.
4. Install the inner pad with the wear indicator plate facing upward.
5. Install the outer pad.

NOTE:

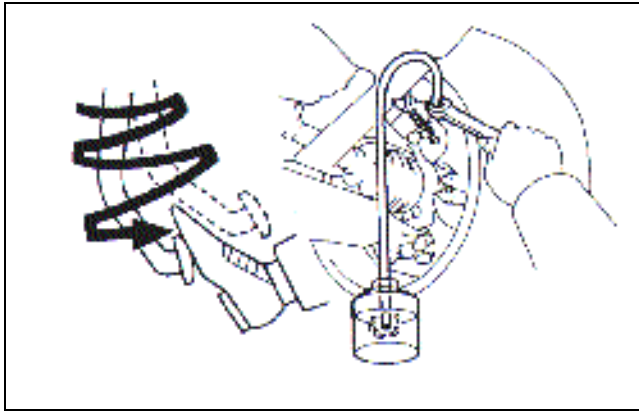
Ensure there is no oil or grease on the friction surfaces of the pads or rotors.

- (i) Reinstall the caliper
 1. Reinstall the caliper.
 2. Hold the lower sliding pin and install the bolt.

TORQUE: 34 N•m (350 kgf•cm, 25 ft•lbf)

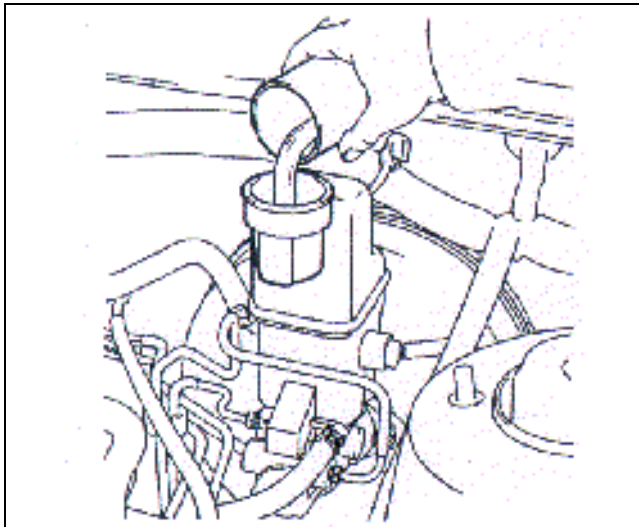
- (j) Reinstall the front wheels.

TORQUE: 103 N•m (1,050 kgf•cm, 76 ft•lbf)

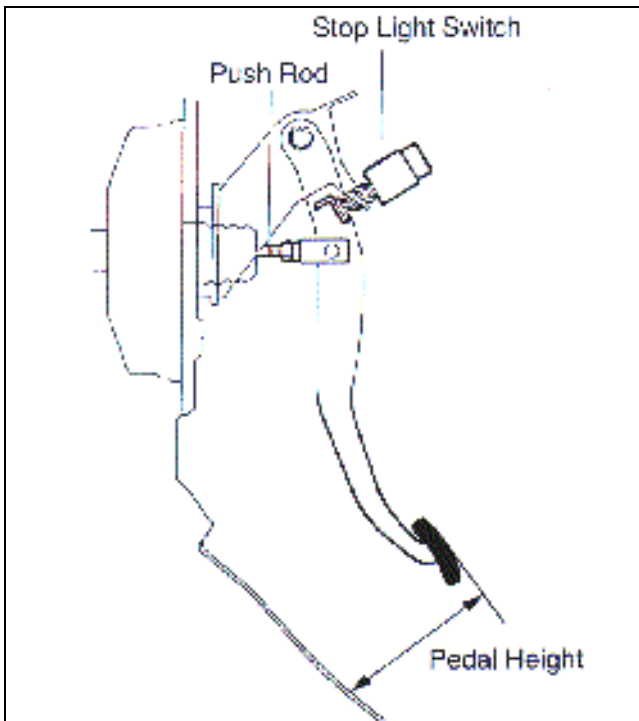


4. **BLEED THE BRAKE SYSTEM.**
- (a) Fill the brake master cylinder reservoir.
 - (b) Bleed the brake system in the following sequence to remove any air from the system.
 1. Right Rear
 2. Left Rear
 3. Right Front
 4. Left Front

NOTE:
Do not let the brake fluid reservoir go empty.



- (c) Recheck and correct brake fluid level as needed.

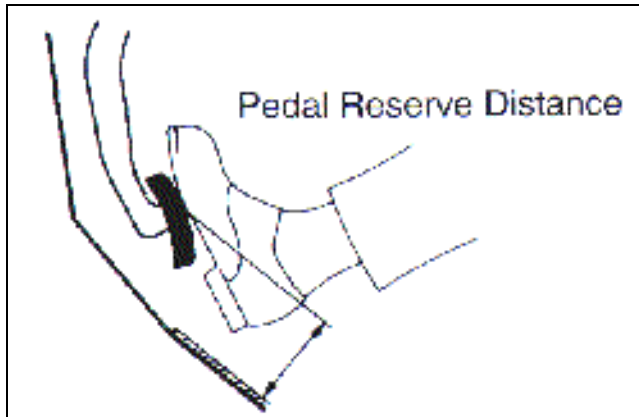


- (d) Check the following brake pedal dimensions.
 1. Check the height of the brake pedal as shown.

Pedal height from floor:
 124.3 \pm 134.3 mm (4.894 \pm 5.287 in)

Pedal free play:
 1 \pm 3 mm (0.04 \pm 0.12 in)

Stop light switch clearance:
 0.5 \pm 2.4 mm (0.020 \pm 0.094 in)

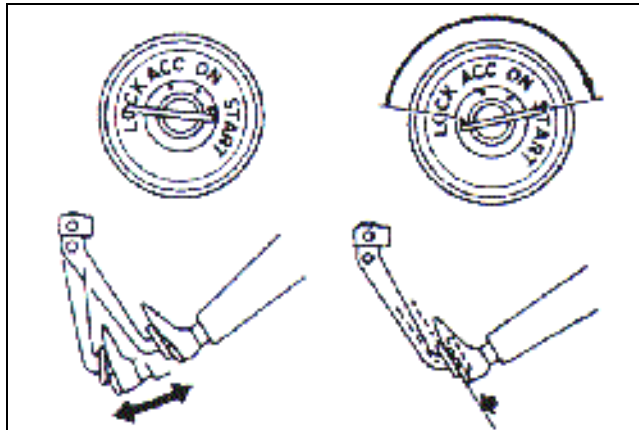


**Pedal reserve distance from floor at
(490 N•m 50Kgf, 110.2 lbf.):**

Must be greater than 48 mm (1.89in)

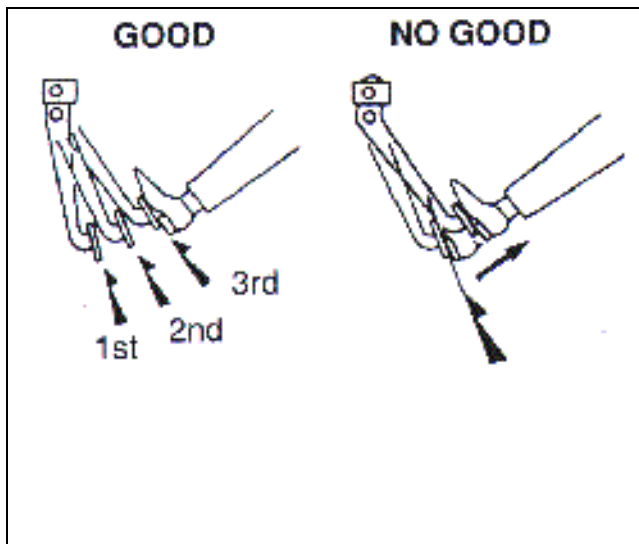
NOTE:

If any adjustments are required see repair manual.



(e) Check the brake booster operation.

1. With the engine off, depress the brake pedal several times.
2. Check that there is no change in the pedal reserve distance.
3. Depress the brake pedal and start the engine.
4. The brake pedal should drop slightly.



(f) Check brake booster for air leakage.

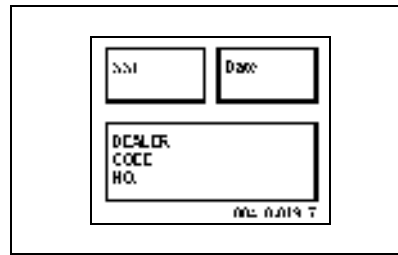
1. Start and run the engine for 2 minutes.
2. Shut off engine.
3. Slowly depress the brake pedal several times.
4. The brake pedal stroke should get shorter each time the pedal is depressed.
5. With the brake pedal depressed, start the engine.
6. Continue holding the brake pedal, then stop the engine.
7. After 30 seconds, there should be no change in the brake pedal reserve travel.

V. SSC COMPLETION LABEL INSTALLATION

A. After completing the repair and before returning the vehicle to the owner, an SSC completion label, that is enclosed in the owner's notification, must be affixed to the left front door hinge post near the check strap.

B. The label is to be filled out as follows:

- Write in SSC 10L.
- Write in the date of the repair.
- Write in your dealer code.



The diagram shows a rectangular label form with a border. It is divided into three main sections. The top section contains two smaller rectangular boxes side-by-side; the left one is labeled 'SSC' and the right one is labeled 'Date'. Below these is a larger rectangular box containing the text 'DEALER CODE NO.' stacked vertically. At the bottom right corner of the entire label form, the number '00410-01917' is printed.

C. Additional SSC completion labels, in sheets of 50 (P/N 00410-01917), may be ordered through the non-parts system on a 1450 order form or through the TDN system.