



**Toyota Motor Sales, U.S.A., Inc.**  
19001 South Western Avenue, S207  
Torrance, CA 90509-2991

TMS-NTC-10247  
November 24, 2010

Delia Lopez  
Recall Management Division  
National Highway Traffic Safety Administration  
1200 New Jersey Avenue, SE  
Washington, DC 20590

Re: Toyota Safety Recall 10V-499

Dear Ms. Lopez:

Please find attached Toyota and Lexus Updated Dealer Notification Letters for Safety Recall 10V-499 on the following models:

2005-2006 Toyota Avalon  
2004-2006 Toyota Highlander  
2004-2006 Lexus RX330  
2006 Lexus GS300, IS250/350

These documents are being submitted in accordance with regulation 49 CFR 573.6 (c)(10).

If you have any questions regarding this matter, please contact me at (310) 468-3392.

Sincerely,

A handwritten signature in black ink, appearing to read "G. Morino".

George Morino  
National Manager, Quality Compliance

Attachments:

- Lexus 10V-499 Updated Dealer Notification Letter ALG 11-24-2010
- Toyota 10V-499 Updated Dealer Notification Letter A0M 11-24-2010

To: All Lexus Dealers  
 From: Lexus Customer Services

**Technical Instruction Update for Safety Recall – ALG**  
**Certain 2004 through 2006 Lexus RX 330**  
**Certain 2006 Lexus IS 250 / IS 350 / GS 300 Vehicles**  
**Rubber Seal (Brake Master Cylinder Cup Replacement)**  
**\*\*\*\*\*IMPORTANT TECHNICAL INSTRUCTION UPDATE\*\*\*\*\***

**Technical Instruction Update:**

The Safety Recall ALG technical instructions have been revised, with a new inspection procedure to clearly identify brake fluid from clear silicone assembly lube. Please download and re-read the updated technical instructions. This inspection procedure must be followed to determine if the brake booster requires replacement.

- Newly revised technical instructions are available on TIS.

**C. PRELIMINARY INSPECTION FOR BRAKE FLUID LEAKAGE**

**1. REMOVE THE MASTER CYLINDER**

a) Follow the Brake Master Cylinder removal procedure outlined in the repair manual on TIS for the vehicle you are working on.

**2. VISUAL INSPECTION FOR BRAKE FLUID LEAKAGE**

a) As shown below, visually inspect the booster for signs of brake fluid leakage from the master cylinder.

Viewing Direction

Flash Light

Inspect area for brake fluid leakage

Spring

Rod Retainer

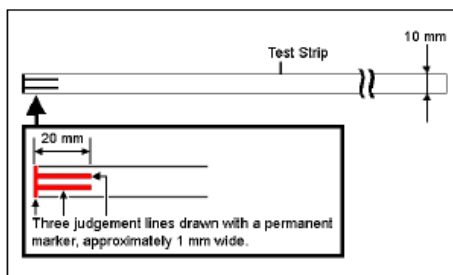
Master Cylinder

Brake Booster

Brake fluid droplets

Brake Booster Judgment Criteria	Result
<p align="center">No fluid found.</p> <p align="center">Rod Retainer</p> <p align="center">Spring</p>	<p align="center"><b>Booster is OK</b></p> <p>Replace the cylinder cup as outlined in section F.</p>
<p align="center">Fluid droplet(s) are visible on the rod retainer and/or spring.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p align="center">Fluid droplet on rod retainer</p> <p align="center">Fluid droplet on spring</p> </div> </div>	<p align="center"><b>Booster requires additional inspection</b></p> <p align="center">Proceed to section D                      "SECONDARY INSPECTION FOR BRAKE FLUID LEAKAGE"</p>

## D. SECONDARY INSPECTION FOR BRAKE FLUID LEAKAGE

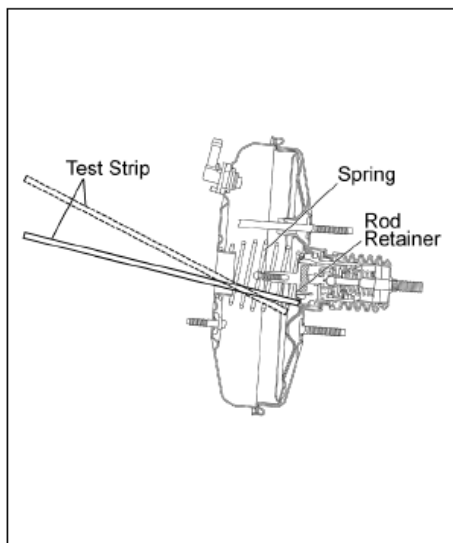


### 1. PREPARE MULTIPLE TEST STRIP

- Using plain copy paper (letter size), cut a 20 mm (0.8 in.) wide strip length wise and fold it in half to 10 mm (0.4 in.).
- Using a permanent marker, draw three 1 mm (0.04 in.) wide lines as shown.

#### NOTE:

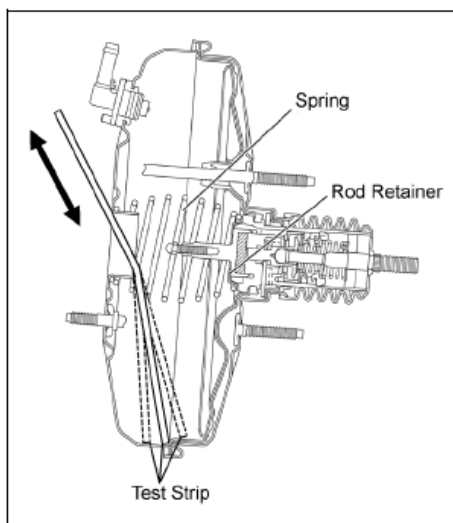
Prepare a test strip in advance and place it in a droplet of brake fluid to confirm how the permanent marker lines react, which will be used as a reference point.



### 2. BRAKE FLUID LEAK CHECK PART 1

- Insert a new test strip in the locations shown or where the fluid was found.
- Remove the test strip and let it sit for 1 minute, then determine the judgement using the table below.

Judgement	Result
	Assembly oil detected. <b>Booster requires additional inspection</b> Proceed to step 3 "BRAKE FLUID LEAK CHECK PART 2".
	Brake fluid detected. <b>Booster is NG</b> Replace the brake booster as outlined in section E. & Replace the cylinder cup as outlined in section F.



### 3. BRAKE FLUID LEAK CHECK PART 2

- Insert a new test strip inside the bottom of the booster in the locations shown.
- Remove the test strip and let it sit for 1 minute, then determine the judgement using the table below.

Judgement	Result
	Assembly oil detected. <b>Booster is OK</b> Replace the cylinder cup as outlined in section F.
	Brake fluid detected. <b>Booster is NG</b> Replace the brake booster as outlined in section E. & Replace the cylinder cup as outlined in section F.

## E. REPLACE THE BRAKE BOOSTER (IF BRAKE FLUID LEAKAGE WAS DETECTED)

**TECHNICAL INSTRUCTIONS**

**FOR**

**SAFETY RECALL ALG**

**RUBBER SEAL (BRAKE MASTER CYLINDER CUP) REPLACEMENT**

**2006 MODEL YEAR GS 300**  
**2006 MODEL YEAR IS 250 & IS 350**  
**2004 – 2006 MODEL YEAR RX 330**

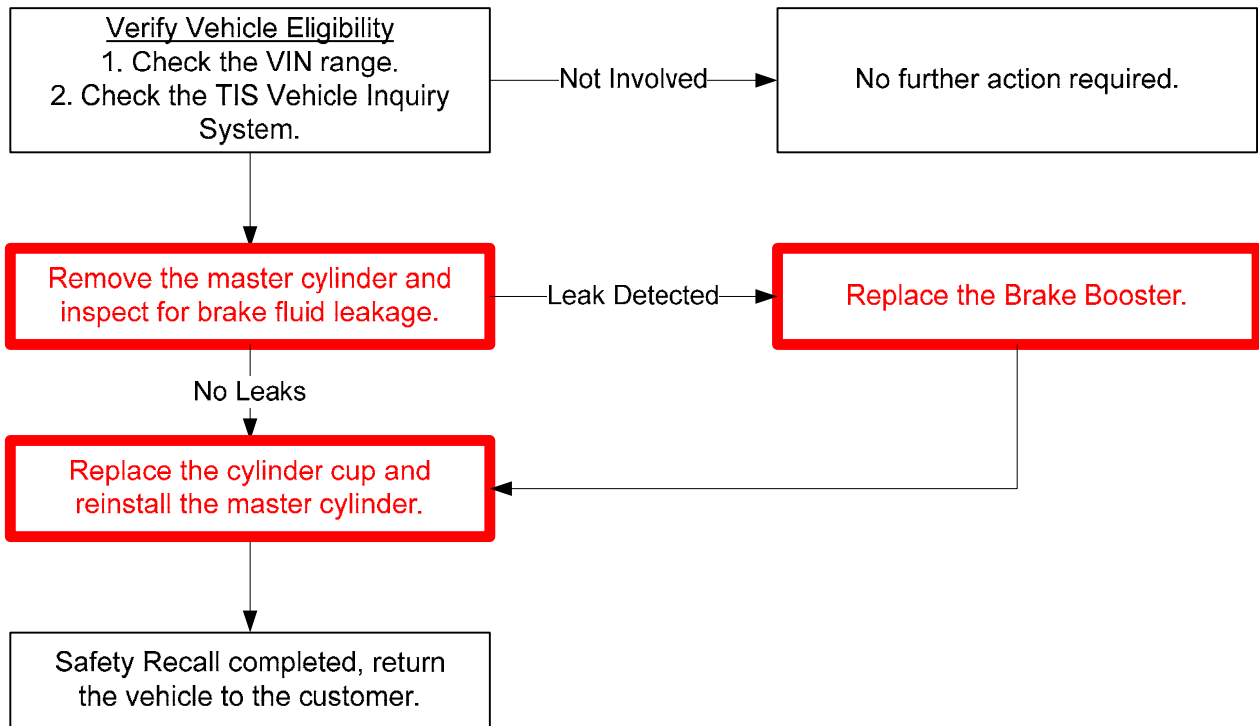
***REVISED NOVEMBER 18, 2010***

**TECHNICAL INSTRUCTION REVISION NOTICE:**

- November 15, 2010:
  - Additional information was added to Work Procedure Section B, step 6, “SERVICE TIP FOR MASTER CYLINDER REMOVAL”
- November 18, 2010:
  - The table in Work Procedure Section C, step 2, “INSPECT FOR BRAKE FLUID LEAKAGE” was revised to include new information.
  - Work Procedure Section D, “SECONDARY INSPECTION FOR BRAKE FLUID LEAKAGE” was added.

Previous versions of this Technical Instruction should be discarded.

## I. OPERATION FLOWCHART



## II. IDENTIFICATION OF AFFECTED VEHICLES

### A. AFFECTED VIN RANGE

Model	WMI	Year	VIN Range	
			VDS	Range
RX 330	2T2	2004	GA31U	C001001 – C019006
			HA31U	C001002 – C039897
		2005	GA31U	C018659 – C042888
			HA31U	C039056 – C087493
		2006	GA31U	C042219 – C053398
			HA31U	C086510 – C109797
	JTJ	2004	GA31U	0001010 – 0044873
			HA31U	0001045 – 0074277
		2005	GA31U	0044429 – 0059262
			HA31U	0074282 – 0098527
		2006	GA31U	0059263 – 0064276
			HA31U	0098335 – 0103457
IS 250	JTH	2006	BK262	0001001 – 0001002
				2000010 – 2005729
				5000018 – 5007476
			CK262	0001001 – 0003002
				2000003 – 2001381
				5000003 – 5003003
IS 350	JTH	2006	BE262	0001001 – 0003002
				2000000 – 2001859
				5000005 – 5003834

### AFFECTED VIN RANGE CONTINUED...

Model	WMI	Year	VIN Range	
			VDS	Range
GS 300	JTH	2006	BH96S	0001004 – 0001014
				5000005 – 5029308
			CH96S	0001002 – 0015096

#### NOTE:

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety Recall and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.

## III. PREPARATION

### A. PARTS

Part Number	Part Description	Quantity
04000-33158	Rubber Seal (Brake Master Cylinder Cup) Kit*	1
* The kit above includes the following parts:		
90029-20059	Rubber Seal (Cylinder Cup)	Quantity 1
90947-01322	O-ring	Quantity 1
—	Wire Tie	Quantity 1

### B. TOOLS & EQUIPMENT

- Flash Light
- Protective Eyewear
- Standard Hand Tools
- Techstream
- Torque Wrench
- Workbench with Vise

### C. MATERIALS & SUPPLIES

- Paper Towels
- Plastic Bag
- Toyota Genuine DOT 3 Brake Fluid = 00475-1BF03 = Quantity 3
- Rubber Grease = 08887-01206 = Quantity 1\*\*

\*\* One tube of Rubber Grease can be used on approximately 100 vehicles.

## IV. BACKGROUND

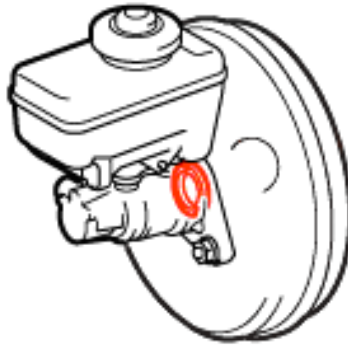
During vehicle assembly, Toyota uses brake fluids containing polymers that act as lubricants for certain brake system components. If replacement brake fluid is used that does not contain such polymers, or contain only small amounts, a part of the rubber seal (Brake Master Cylinder Cup) located at the rear of the brake master cylinder may become dry, and the rubber seal may curl during movement of the piston. If this occurs, a small amount of the brake fluid could slowly leak from the seal into the brake booster, resulting in illumination of the brake warning lamp.

If the vehicle continues to be operated in this condition, the brake pedal feel could change, and braking performance could eventually begin to gradually degrade. If the warnings provided by the lamp illumination and the change in pedal feel are not heeded, a vehicle crash could occur.

Toyota original brake fluid which is applied at the manufacturing plant contains polymers and does not cause this phenomenon.

## V. WORK PROCEDURE

### A. COMPONENTS



### B. WORK PROCEDURE PRECAUTIONS



**READ and FOLLOW all procedure PRECAUTIONS and INSTRUCTIONS before beginning work on the vehicle!**

#### 1. HANDLING OF REPLACEMENT PARTS

- All removed parts that are NOT reused should be rendered unusable or marked to prevent them from being reinstalled.

#### 2. PREVENT DIRT, DEBRIS AND FOREIGN MATTER FROM ENTERING THE BRAKE SYSTEM

- DO NOT use shop cloths or cloth gloves, doing so may allow pieces of thread to enter the master cylinder.
- Keep your hands clean to prevent dirt, debris and foreign matter from entering the master cylinder during the work procedure.
- Take measures to prevent dirt, debris and foreign matter from entering the brake system during the work procedure.

#### 3. DO NOT USE METAL TOOLS

- Using metal tools to remove or install the rubber o-ring and cup will damage the metal grooves of the master cylinder.

#### 4. HANDLING AND INSPECTION OF BRAKE TUBES

- DO NOT deform or damage the brake tubes during the removal and installation process.
- After reinstalling the brake tubes, check to make sure they DO NOT interfere with each other.

#### 5. HANDLING OF BRAKE FLUID

- DO NOT reuse brake fluid.
- Brake fluid damages painted surfaces. Make sure to immediately clean off any spilled brake fluid by rinsing the area with water.
- Bleeding the brake system may cause fluid to spray outwards, so make sure to wear protective eyewear when performing this procedure.

#### 6. SERVICE TIP FOR MASTER CYLINDER REMOVAL

- Negative pressure inside the booster may cause the piston to come off when removing the master cylinder. This may result in brake fluid leakage into the booster.
- Release the negative pressure from the booster prior to removing the master cylinder. Do this by pressing the brake pedal all the way ten times with the engine off. Once completed, slowly remove the master cylinder from the booster.



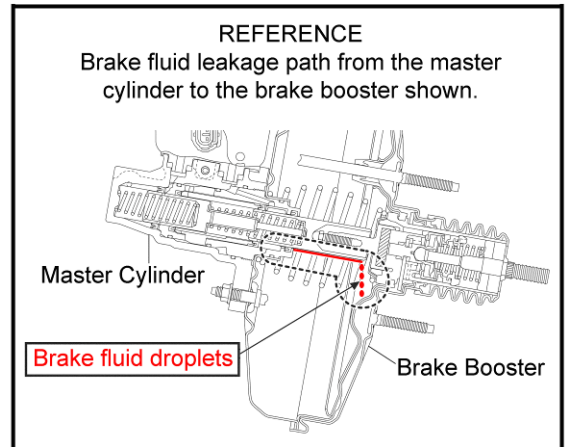
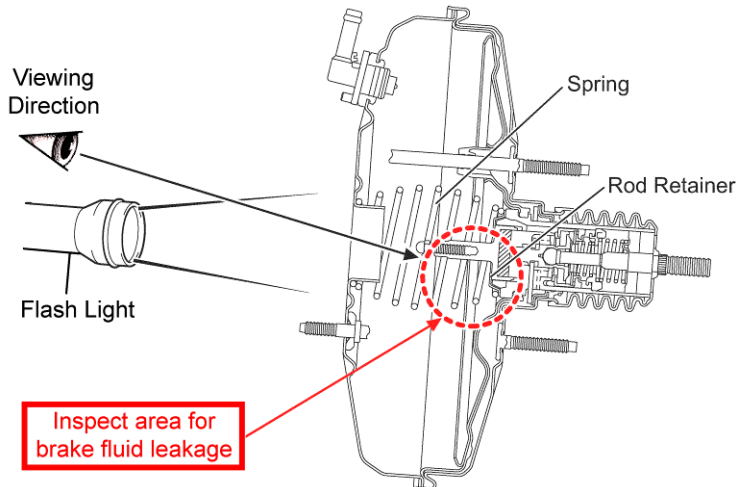
## C. INSPECT FOR BRAKE FLUID LEAKAGE

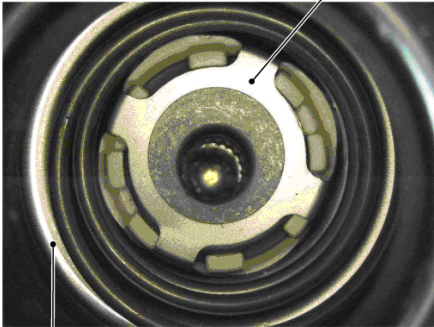
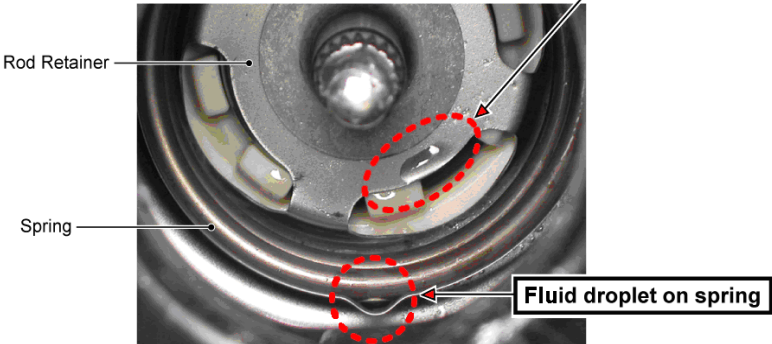
### 1. REMOVE THE MASTER CYLINDER

- Follow the Brake Master Cylinder removal procedure outlined in the repair manual on TIS for the vehicle you are working on.

### 2. INSPECT FOR BRAKE FLUID LEAKAGE

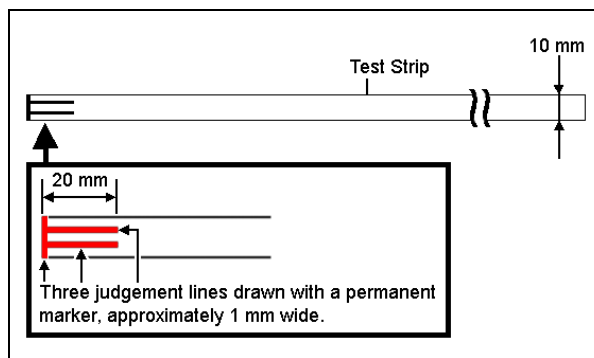
- As shown below, visually inspect the booster for signs of brake fluid leakage from the master cylinder.



Brake Booster Judgment Criteria	Result & Action
<p>No fluid found.</p>  <p>Rod Retainer</p> <p>Spring</p>	<p><b>Booster is OK</b></p> <p>Replace the cylinder cup as outlined in section F.</p>
<p>Fluid droplet(s) are visible on the rod retainer and/or spring.</p>  <p>Rod Retainer</p> <p>Spring</p> <p>Fluid droplet on rod retainer</p> <p>Fluid droplet on spring</p>	<p><b>Booster requires additional inspection</b></p> <p>Proceed to section D "SECONDARY INSPECTION FOR BRAKE FLUID LEAKAGE"</p>



## D. SECONDARY INSPECTION FOR BRAKE FLUID LEAKAGE

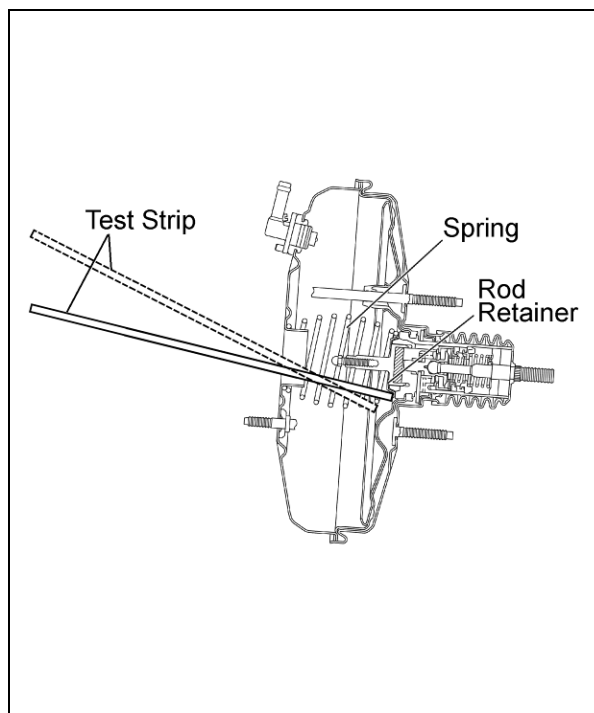


### 1. PREPARE MULTIPLE TEST STRIP

- Using plain copy paper (letter size), cut a 20 mm (0.8 in.) wide strip length wise and fold it in half to 10 mm (0.4 in.).
- Using a permanent marker, draw three 1 mm (0.04 in.) wide lines as shown.

#### NOTE:

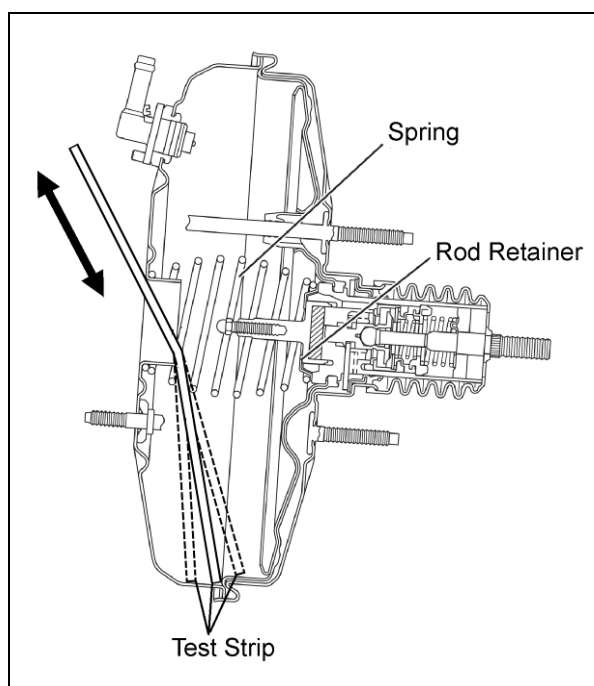
Prepare a test strip in advance and place it in a droplet of brake fluid to confirm how the permanent marker lines react, which will be used as a reference point.



### 2. BRAKE FLUID LEAK CHECK PART 1

- Insert a new test strip in the locations shown or where the fluid was found.
- Remove the test strip and let it sit for 1 minute, then determine the judgement using the table below.

Judgement	Result
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### 3. BRAKE FLUID LEAK CHECK PART 2

- Insert a new test strip inside the bottom of the booster in the locations shown.
- Remove the test strip and let it sit for 1 minute, then determine the judgement using the table below.

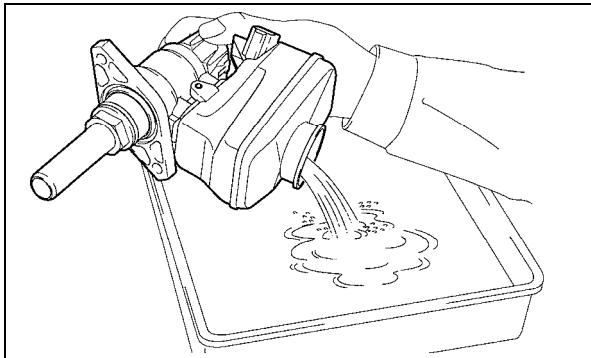
Judgement	Result
	Assembly oil detected. <b>Booster is OK</b> Replace the cylinder cup as outlined in section F.
	Brake fluid detected. <b>Booster is NG</b> Replace the brake booster as outlined in section E. & Replace the cylinder cup as outlined in section F.

## E. REPLACE THE BRAKE BOOSTER (IF BRAKE FLUID LEAKAGE WAS DETECTED)

### 1. REPLACE THE BRAKE BOOSTER

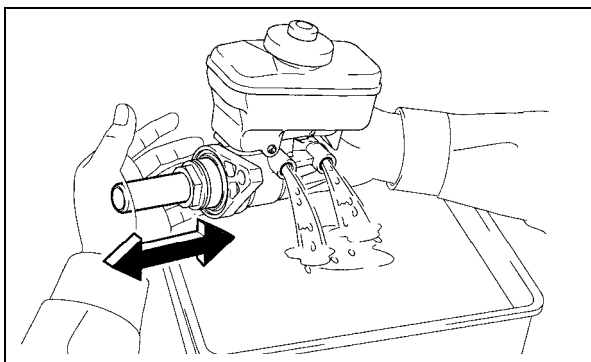
- a) Follow the Brake Booster replacement procedure outlined in the repair manual on TIS for the vehicle you are working on. **For brake booster part number information, please reference section VI "APPENDIX"**

## F. REPLACE THE RUBBER SEAL (BRAKE MASTER CYLINDER CUP)



### 1. DRAIN THE MASTER CYLINDER BRAKE FLUID

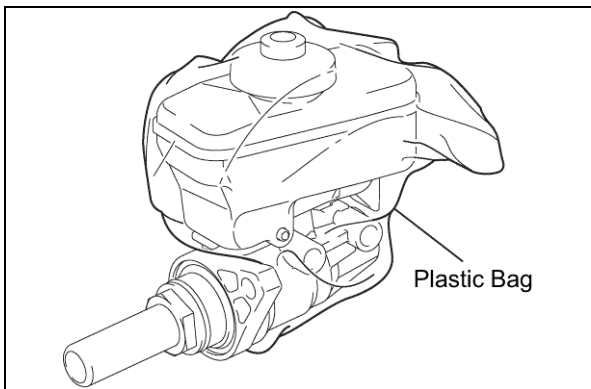
- c) Remove the reservoir cap.
- d) Drain the master cylinder brake fluid and reinstall the cap.



- e) Discharge the brake fluid inside master cylinder by slowly moving the piston in and out for 2 complete strokes.

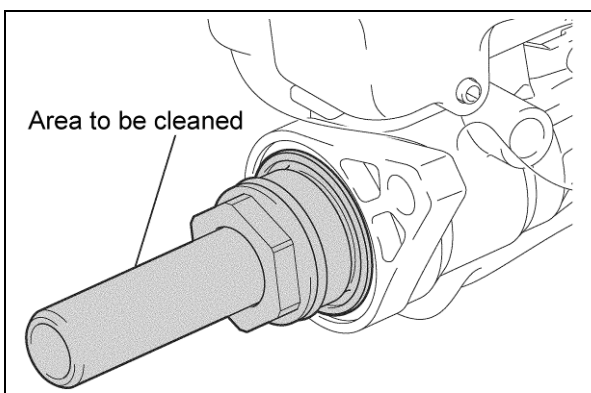
#### NOTE:

- Pushing the piston **SLOWLY** will prevent brake fluid from spraying out.
- Make sure to wear protective eyewear when performing this procedure.



### 2. COVER THE MASTER CYLINDER

- a) Cover the master cylinder with a plastic bag to prevent dirt, debris and foreign matter from entering.

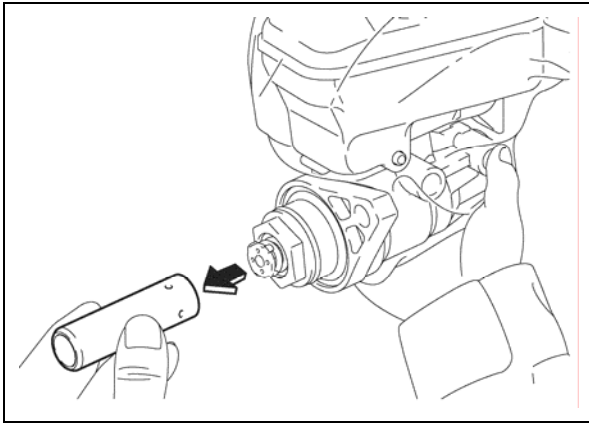


### 3. CLEAN THE MASTER CYLINDER

- a) Clean the highlighted area shown with a paper towel to remove any dirt, debris and foreign matter.

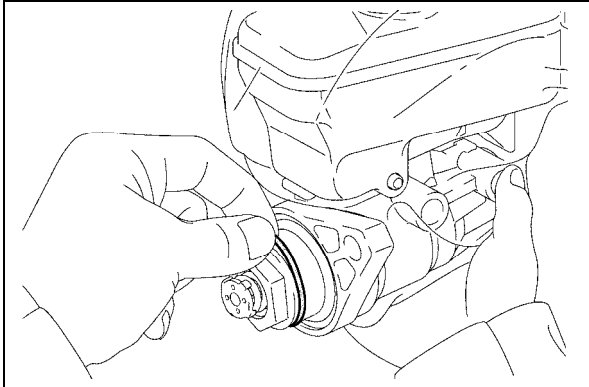
#### NOTE:

**DO NOT** use a shop cloth, doing so may allow pieces of thread to enter the master cylinder.



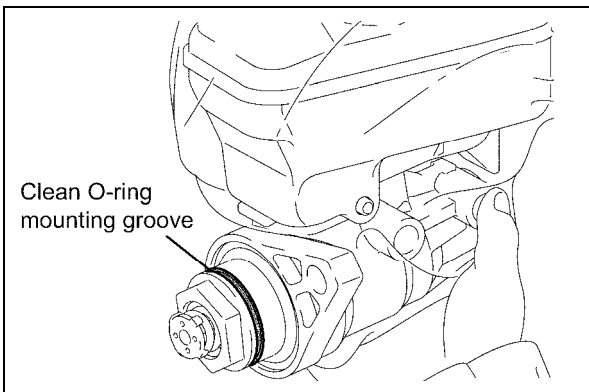
#### 4. REMOVE THE PISTON

- a) Pull off the piston by hand.
- b) The piston is a precision part, so store it in a manner that will prevent it from damage, dirt, debris and foreign matter.



#### 5. REMOVE THE O-RING

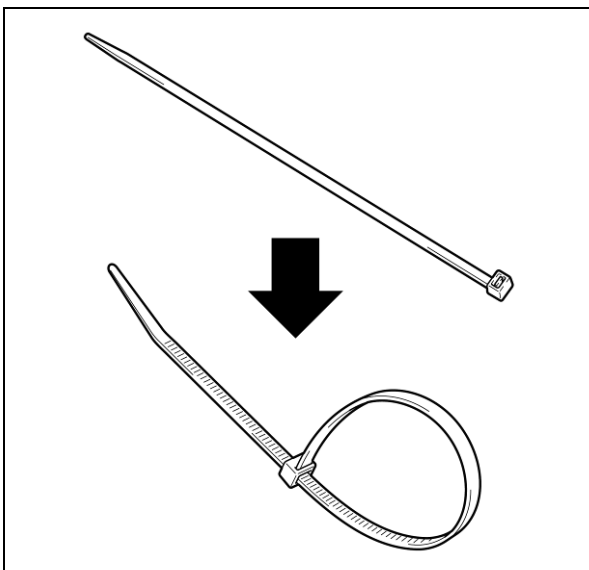
- a) Remove the o-ring by hand.
- b) Cut the o-ring to prevent it from being reused.



- c) Clean the o-ring mounting groove with a paper towel.

#### NOTE:

**DO NOT** use a shop cloth, doing so may allow pieces of thread to enter the master cylinder.

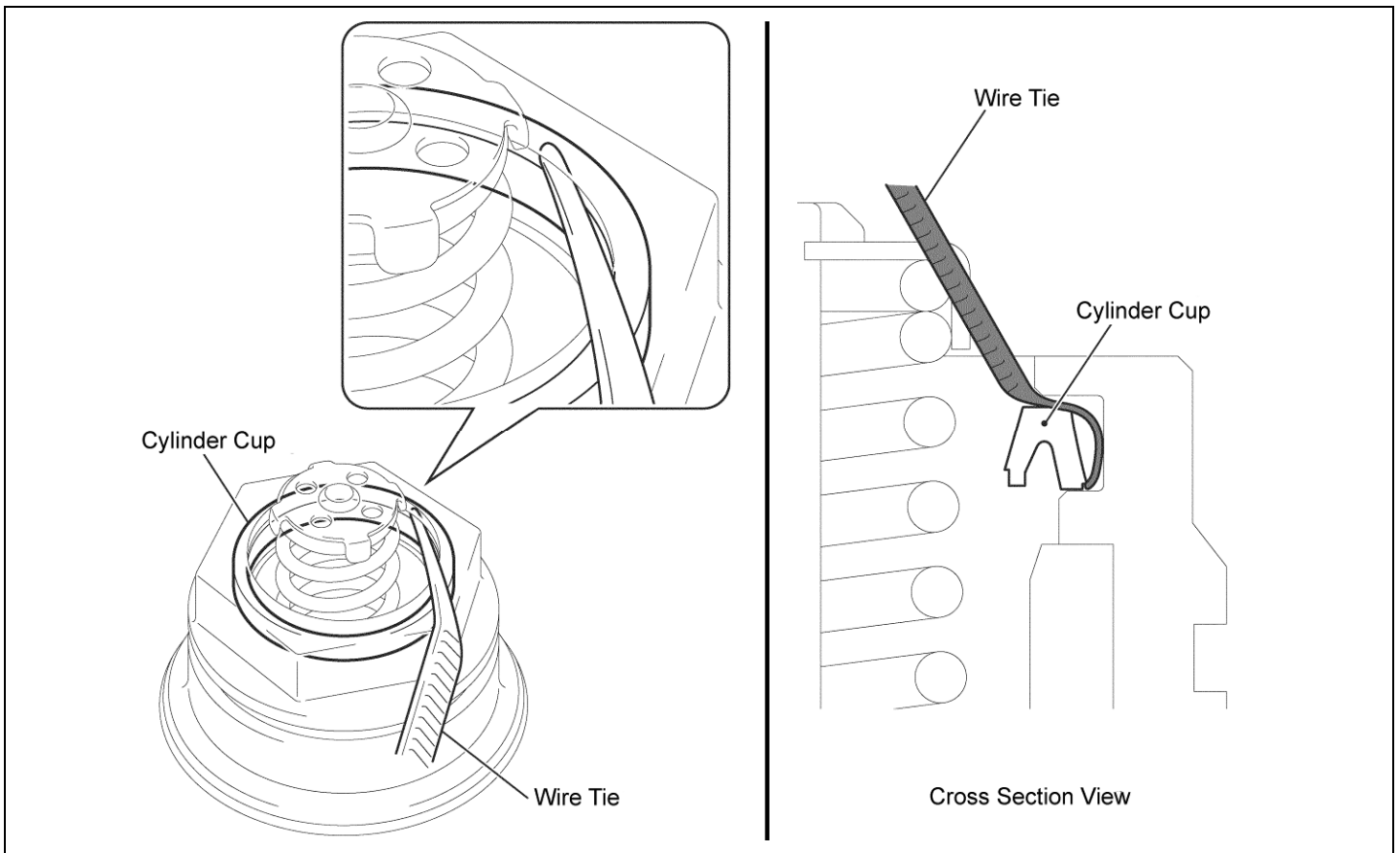


#### 6. REMOVE THE RUBBER SEAL (BRAKE MASTER CYLINDER CUP)

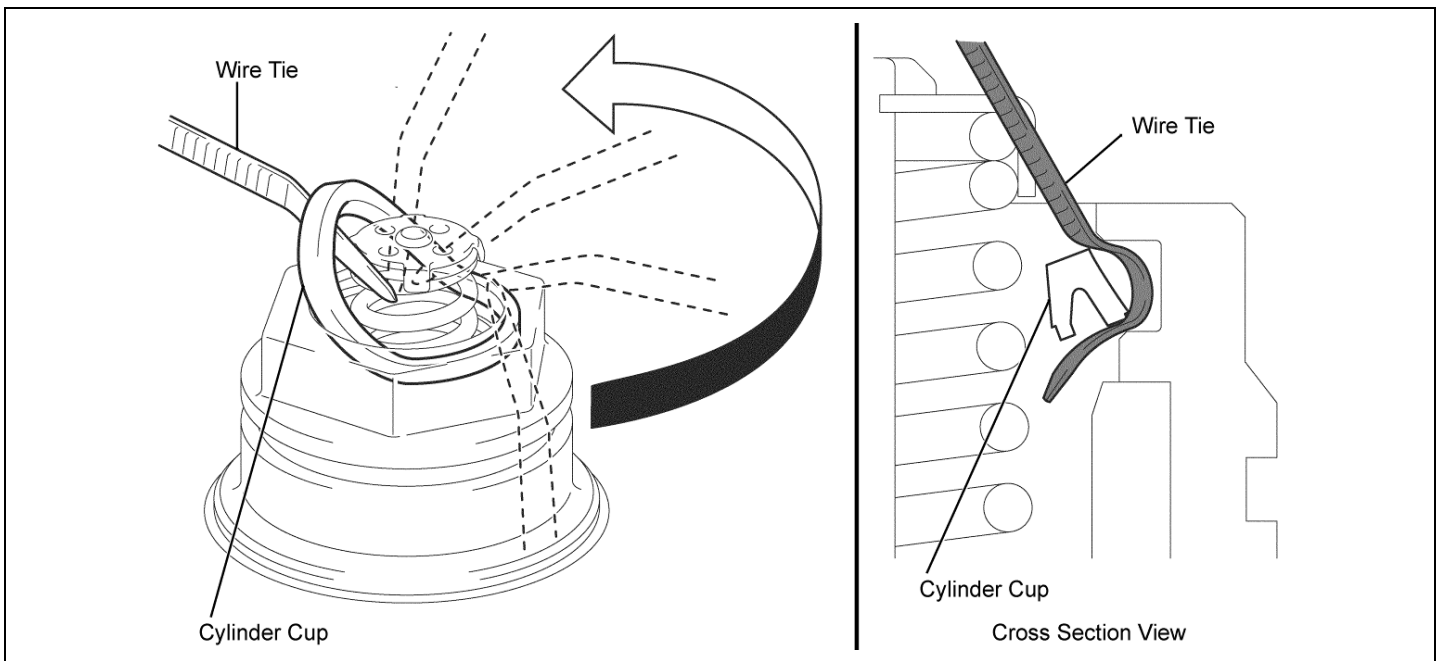
- a) Clean the supplied wire tie.
- b) To make it easier to grip, loop the end of the wire tie as shown.

#### NOTE:

- **DO NOT** use the wire tie more than once, doing so will decrease its effectiveness and may introduce dirt, debris and foreign matter.
- **DO NOT** cut the wire tie, doing so may introduce dirt, debris and foreign matter.



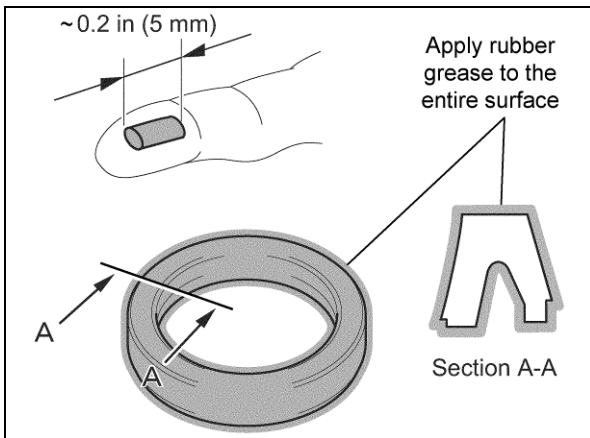
- c) Insert the tip of the wire tie over the outside of the rubber seal (brake master cylinder cup) as shown above.



- d) Keep the wire tie flat and insert it further while sliding it along the circumference, until the rubber seal (brake master cylinder cup) is raised and accessible.  
 e) Remove and cut the rubber seal (brake master cylinder cup) and wire tie to prevent them from being reused.

**NOTE:**

**DO NOT** clean the rubber seal (brake master cylinder cup) mounting groove.

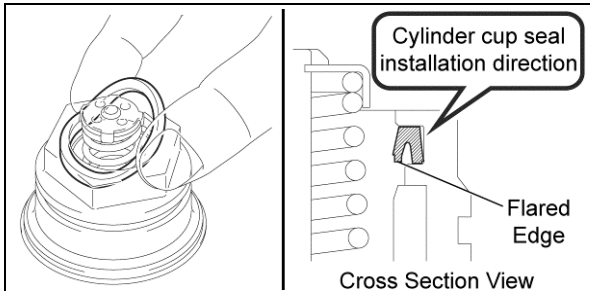


## 7. INSTALL THE **NEW** RUBBER SEAL (BRAKE MASTER CYLINDER CUP)

- Apply approximately 0.5g of Rubber Grease evenly over the entire surface of the **NEW** rubber seal (brake master cylinder cup).

### Rubber Grease Quantity

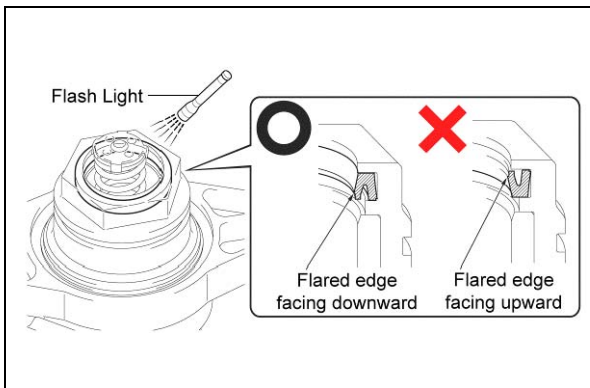
- 0.5g = 0.2 in / 5 mm squeezed from the tube



- Install the **NEW** rubber seal (brake master cylinder cup) by hand, making sure the flared edge is facing down.

### NOTE:

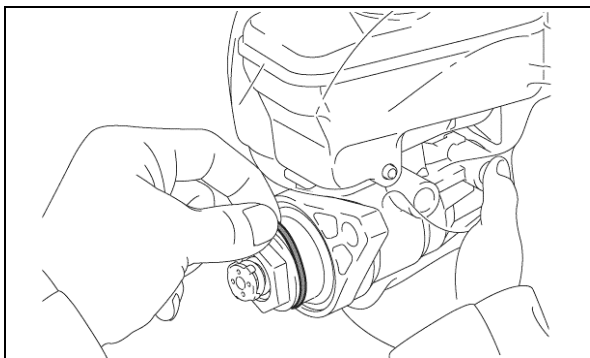
**DO NOT** damage the lip of the rubber seal (brake master cylinder cup).



- Confirm the positioning of the **NEW** rubber seal (brake master cylinder cup), making sure the flared edge is facing down.

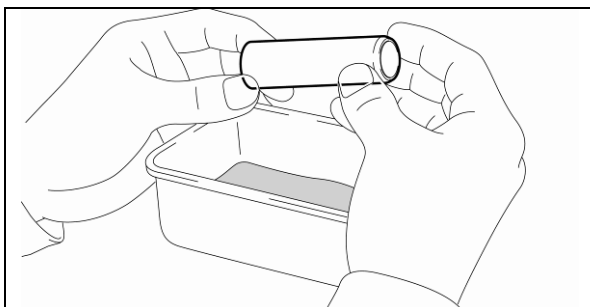
### NOTE:

- Confirmation of the rubber seal (brake master cylinder cup) position may be difficult. To help, shine a light in the direction shown during the inspection.
- If the rubber seal (brake master cylinder cup) is installed incorrectly (flared edge facing up) it **MUST** be replaced with a new one.



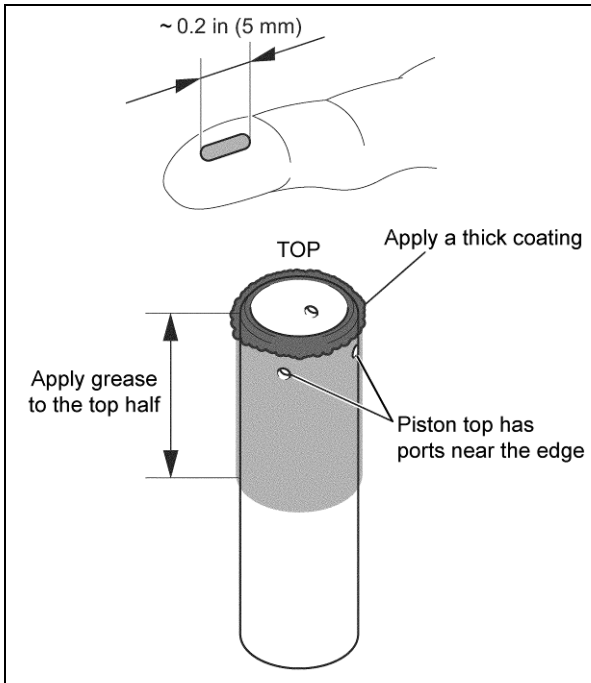
## 8. INSTALL THE **NEW** O-RING

- Apply Rubber Grease to the entire surface of the **NEW** o-ring.
- Install the **NEW** o-ring to the master cylinder, making sure it is not twisted.



## 9. REINSTALL THE PISTON

- Clean the piston with brake fluid.

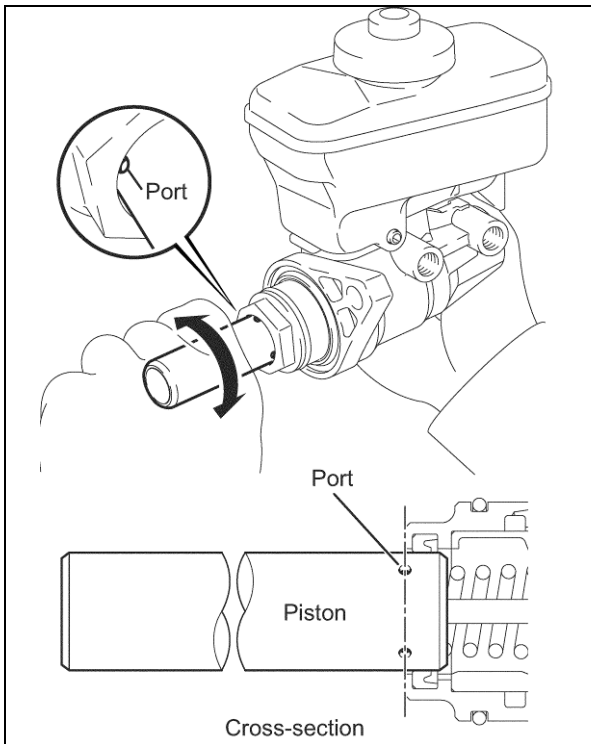


b) Apply approximately 0.5g of Rubber Grease to the piston in the 2 areas listed below, and as shown in the illustration.

- Even coat over the top half of the piston.
- Thick coating around the top edge of the piston

#### Rubber Grease Quantity

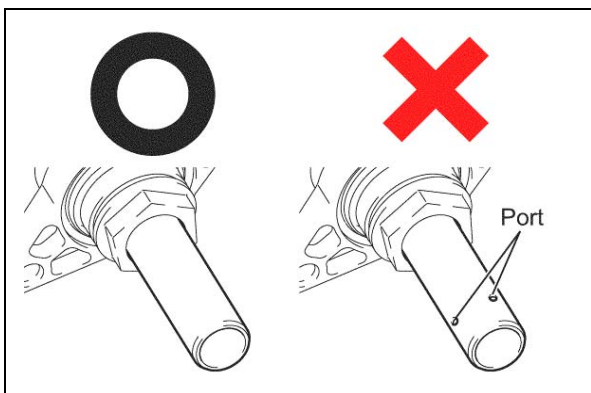
- 0.5g = 0.2 in / 5 mm squeezed from the tube



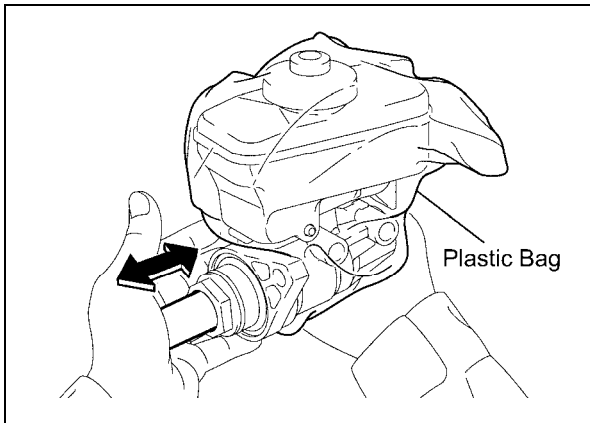
- Gradually reinstall the piston straight into the master cylinder, until the ports line up with edge of the cylinder as shown.
- Turn the piston 90° to the left and to the right 5 times, then gradually push the piston in until it stops.

#### NOTE:

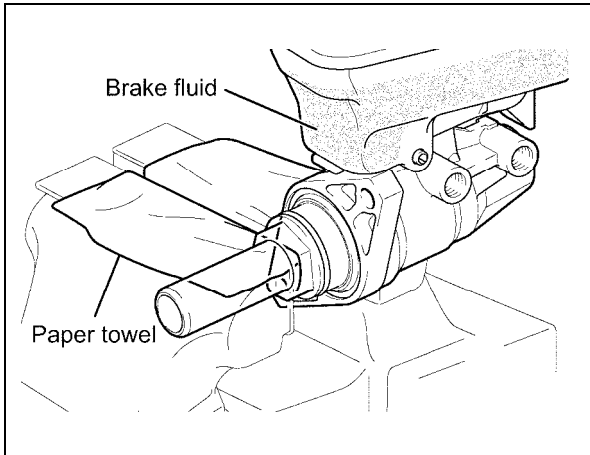
**DO NOT** insert the piston with one push, do it gradually.



- Confirm that the piston ports are in the correct position as shown.



- f) Move the piston in and out slowly for 2 complete strokes.
- g) Remove the plastic bag.

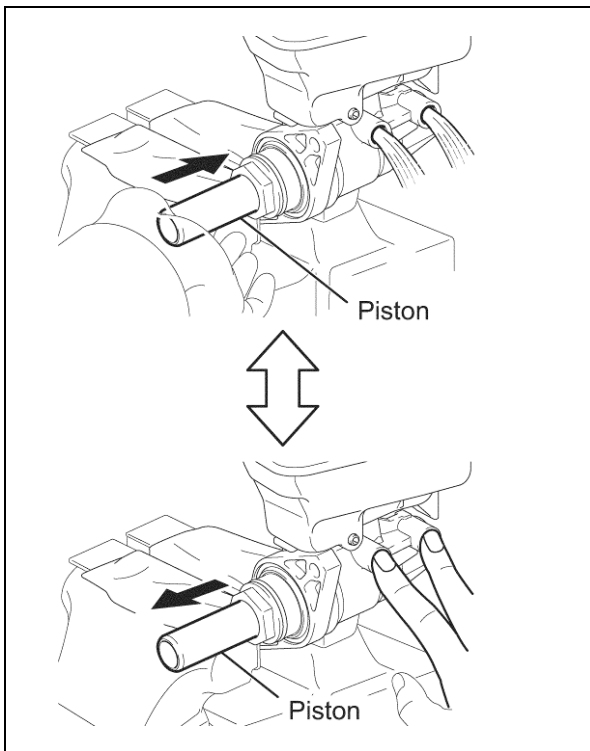


## 10. BLEED THE AIR FROM THE MASTER CYLINDER

- a) Secure the master cylinder to a vise padded with paper towels.
- b) Fill the reservoir tank with Toyota Genuine DOT 3 Brake Fluid.

### NOTE:

**DO NOT** use a shop cloth, doing so may allow pieces of thread to enter the master cylinder.



- c) Push the piston in slowly and hold it in place.
- d) Plug the brake line holes with your fingers, and let the piston return to its original position.
- e) Release your fingers, then push the piston in slowly and hold it in place.
- f) Repeat steps d) & e) several times until the air is bled from the master cylinder.

### NOTE:

- Pushing the piston **SLOWLY** will prevent brake fluid from spraying out.
- **DO NOT** allow the reservoir tank to become empty, doing so will allow air to enter the master cylinder.
- Make sure to wear protective eyewear when performing this procedure.

## 11. REINSTALL THE MASTER CYLINDER

- a) Follow the Brake Master Cylinder installation procedure as outlined in the repair manual on TIS for the vehicle you are working on.



## 12. BLEED THE BRAKE SYSTEM

- a) Follow the Brake Fluid Bleeding procedure as outlined in the repair manual on TIS for the vehicle you are working on.

## 13. TEST DRIVE THE VEHICLE

**- COMPLETE -**

## VI. APPENDIX

- **NOTE**

As required by Federal Regulations, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return.***

- **BRAKE BOOSTER PART NUMBER INFORMATION**

MODEL	PART NUMBER	PART DESCRIPTION	QUANTITY
GS 300	44610-30A20	Brake Booster Assembly	1
	44785-47010	Brake Booster Gasket	1
	90468-15005	Clip	1
IS 250	44610-53281	Brake Booster Assembly	1
	44785-47010	Brake Booster Gasket	1
	90468-15005	Clip	1
IS 350	44610-53290	Brake Booster Assembly	1
	44785-47010	Brake Booster Gasket	1
	90468-15005	Clip	1
RX 330	44610-0E011	Brake Booster Assembly	1
	44785-0E010	Brake Booster Gasket	1
	90468-16142	Clip	1
	17176-20010	Air Surge Tank to Intake Manifold Gasket	1
	22271-20040	Throttle Body Gasket	1
	90949-01D02	No. 4 Brake Tube Clamp	1

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : TOYOTA RUBBER GREASE

Supplier : COSMO OIL LUBRICANTS CO.,LTD.

Address : SHIBAURA SQUARE BLDG.,9-25,SHIBAURA,4-CHOME,  
MINATO-KU,TOKYO 108-0023,JAPAN

Telephone number : 03-3798-3875

Emergency telephone number : 03-3798-3875

Date of preparation : 2009/11/27

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	% by Wt.
Base oil	9003-13-8	74~79
Thickener(Lithium soap)	7620-77-1	12~17
Additives	N/A	7~12

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3. HAZARDS IDENTIFICATION

Emergency overview :

Eye : Not expected to cause prolonged or significant eye irritation.

Skin : Contact skin is not expected to cause prolonged or significant irritation.

Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion : Do not swallow heedlessly.

Inhalation : Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels the recommended mineral oil mist exposure limit.

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4. FIRST AID MEASURES

Eye : Flush eyes fresh with water for at least 15 minutes, then seek medical attention.

Skin : Wash contact areas thoroughly with soap and water.

Inhalation : Remove to fresh air. Cover the victim's body with blanket, rest in keeping warm, and seek medical attention immediately.

Ingestion : If swallowed, do not induce vomiting. Seek medical attention immediately.

If contaminated in mouth, flush thoroughly with water.

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## 5. FIRE-FIGHTING MEASURES

**Extinguishing media :** Water fog, foam, dry chemical and carbon dioxide. Do not try to put out the fire with water pillars.

**Fire fighting instructions :** For fires involving this materials, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection.

Contain grease to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as solvent materials.

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## 7. HANDLING AND STORAGE

Do not use or store near flame, spark or hot surfaces. Keep container in a cool, well-ventilated area. Keep container tightly closed when do not use. Do not weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently.

**CAUTION :** Do not use pressure to empty drum may rupture with explosive force.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits :** No mention. ACGIH (1996~1997)

**Engineering Controls :** Use adequate ventilation to keep airborne concentrations of this material below the recommended exposure standard.

**Personal protective equipment :**

**Eye/Face protection :** No special eye protection is usually necessary. Where splashing is possible wear safety glasses with side shields as a good safety practice.

**Skin protection :** No special protective clothing is normally required. Avoid prolonged or frequently repeated skin contact with this material.

**Respiratory protection :** No respiratory protection is usually necessary. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical description :** Semi-solid, light pink in color, with petroleum-like smell.

**Evaporating volatility :** Nil

**Solubility :** Insoluble in water

**Flash point :** >200°C (SETA method)

**Dropping point :** >180°C

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## 10. STABILITY AND REACTIVITY

**Ignition point :** No data available

**Explosive limits :** No data available

**Combustibility :** Combustible

**Oxidizing properties :** Not oxidizer

**Explosion properties :** Not explosive

**Dust explosion properties :** Not explosive

**Stability :** Stable.

**Conditions to avoid :** Keep away from heat sources which may induce thermal decomposition.

**Materials to avoid :** Keep away from strong oxidizing agent, such as chlorates, nitrates, peroxides, etc.

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## 11. TOXICOLOGICAL INFORMATION

**Corrosiveness :** Not corrosive

**Eye, skin irritation :** May cause irritation under prolonged exposures.

**Sensitization :** No data available

**Acute toxicity :** ORAL LD<sub>50</sub> : 5g/kg [Rat], (Estimated values)

**Subacute toxicity :** No data available

**Carcinogenicity :** Base oil : This base oil is not reported to be carcinogenic by NTP and IARC

**Additives :** No data available

**Mutagenicity :** No data available

**Teratogenicity :** No data available

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## 1 2. ECOLOGICAL INFORMATION

Persistence/degradability : No data available

Bioaccumulation : No data available

Ecotoxicity : No data available

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## 1 3. DISPOSAL INFORMATION

Place contaminated material in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this materials.

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## 1 4. TRANSPORT INFORMATION

Transportation by sea : Not Regulated

Transportation by air : Not Regulated

UN No. : Not applicable

IMDG : Non-hazardous

IATA : Hazard Label:None

Non-hazardous for air transport

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## 1 5. REGULATORY INFORMATION

U.S. INVENTORY (TSCA) : All components are listed.

JAPAN INVENTORY (MITI) : All components are listed.

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## 1 6. OTHER INFORMATION

NFPA704(Health, Fire, Reactivity, Specific hazard): 0,1,0,NONE

HMIS(Health, Fire, Reactivity, Specific hazard): 0,1,0,NONE

This material safety data sheet is compiled as a reference for the safe handling of harmful chemical products.

Handlers and users are expected to assume their own responsibilities by handling different situations according to actual circumstances and with reference to this material safety data sheet.

This material safety data sheet may not be interpreted as a guarantee for safety.

To: All Lexus Dealers  
From: Lexus Customer Services

**Safety Recall ALG – Rubber Seal (Master Brake Master Cylinder Cup)  
IMPORTANT PARTS ORDERING INFORMATION**

TMS has received many requests to increase the parts order allocation for the rubber grease tubes (p/n 08887-01206). Due to limited inventory we will not be able to increase the order allocation at this time. The parts order allocation will be increased early next year, when additional inventory has been secured.

***Due to limited inventory, effective immediately dealer orders will be released based on the following criteria:***

1. Dealer order quantities that exceed the criteria below will be canceled.
2. Dealer orders in excess of their daily allocation will be canceled.
3. Dealers should place their orders the night before they place their regular daily order, this will allow NAPO time to review and release the order before the PDC processes their daily shipment.
4. Dealers that require additional inventory should contact their Facing PDC Customer Support Leader and request a special request for additional inventory.
5. Special requests for additional inventory will be limited to the Maximum Weekly Allocation.

Part Number	Part Description	Order Quantity	Order Frequency	Special Request Limit	Special Request Frequency	Maximum Weekly Allocation
04000-33158	Master Brake Cylinder Kit	10	Daily	10	Daily	100
08887-01206	Grease	1	Weekly	1	Weekly	2

**2004 – 2006 GS300**

Part Number	Part Description	Order Quantity	Order Release Process
44610-30A20	Brake Booster Assembly	1	Contact your DSPM and provide the following information for release of parts: Dealer Code, VIN #, Repair Order #, Part #, Order Reference #
44610-30A30	Brake Booster Assembly	1	Contact your DSPM and provide the following information for release of parts: Dealer Code, VIN #, Repair Order #, Part #, Order Reference #

**2004 – 2006 RX**

Part Number	Part Description	Order Quantity	Order Release Process
44610-0E011	Brake Booster	1	Contact your DSPM and provide the following information for release of parts: Dealer Code, VIN #, Repair Order #, Part #, Order Reference #
47028-0E010	Brake Master Cylinder	1	Contact your DSPM and provide the following information for release of parts: Dealer Code, VIN #, Repair Order #, Part #, Order Reference #

**2004 – 2006 IS250/350**

Part Number	Part Description	Order Quantity	Order Release Process
44610-53281	Brake Booster	1	Contact your DSPM and provide the following information for release of parts: Dealer Code, VIN #, Repair Order #, Part #, Order Reference #
44610-53290	Brake Booster	1	Contact your DSPM and provide the following information for

			release of parts: Dealer Code, VIN #, Repair Order #, Part #, Order Reference #
47028-30030	Brake Master Cylinder	1	Contact your DSPM and provide the following information for release of parts: Dealer Code, VIN #, Repair Order #, Part #, Order Reference #
47028-53020	Brake Master Cylinder	1	Contact your DSPM and provide the following information for release of parts: Dealer Code, VIN #, Repair Order #, Part #, Order Reference #

**\*Brake Master Cylinders are not required for this Safety Recall.**

**\*\*Brake Booster replacement should only occur based upon the inspection results. The technical instructions have been revised with a new brake booster inspection procedure to clearly identify brake fluid from clear silicone assembly lube. Please re-read the updated technical instructions. Brake boosters will be placed on Warranty Parts Recovery for inspection.**

If you have any questions or specific dealer allocation issues, please feel free to contact your PDC Customer Support Leader.