

M/T - 6 Speed MTM Difficulty Selecting Gears
TRANSMISSION & [CLUTCH](#)
 TC002-01

September 14, 2001

Title:
 6-SPEED MTM

Models:
 '00 - '01 Celica GTS

Introduction

In order to assist drivers that have experienced difficulty selecting gears, production changes have been made to the [shift cables](#), shift select mechanism, and internal transaxle components.

Applicable Vehicles

^ 2000 - 2001 model year Celica GTS with 6 - Speed MTM.

MODEL	STARTING VIN
2001 Celica GTS, 6 Speed	JTDDY32T#10049042

ZOOM

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Production Change Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	REPAIR MANUAL ILLUSTRATION SECTION MX(C60)
33205-20020	33205-20021	Shaft Sub-Assy, Gear Shift Fork No. 1	MX10
33232-12012	33232-20020	Head, Gear Shift, No. 1	
33244-20050	33244-20051	Shaft, Gear Shift Fork, No. 3	
33251-20060	33251-20080	Lever, Shift Inner No. 1	MX47
33266-20030	33266-20040	Shift Interlock Plate	
90501-18122	90501-18127	Spring, Compression, No. 1	
90501-26087	90501-27035	Spring, Shift & Select Lever Shaft	
33530-20780	33530-20790	Lever Assy, Shift	MX59
33820-2B540	33820-2B670	Cable Transmission Control Select	

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Parts Information

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
N/A	Not Applicable to Warranty	-	-	-	-

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Warranty Information

Title:
AUTOMATIC TRANSMISSION FLUID LEAK

Introduction

Applicable Vehicles

MODEL	STARTING VIN
Celica GTS	JTDDY3#T#Y0028253

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PART NUMBER	PART NAME
08833-00080	Adhesive 1344 (ThreeBond 1344 or equivalent)*

* LOCTITE® Threadlockers 222 and 242 are some equivalents to Adhesive 1344.

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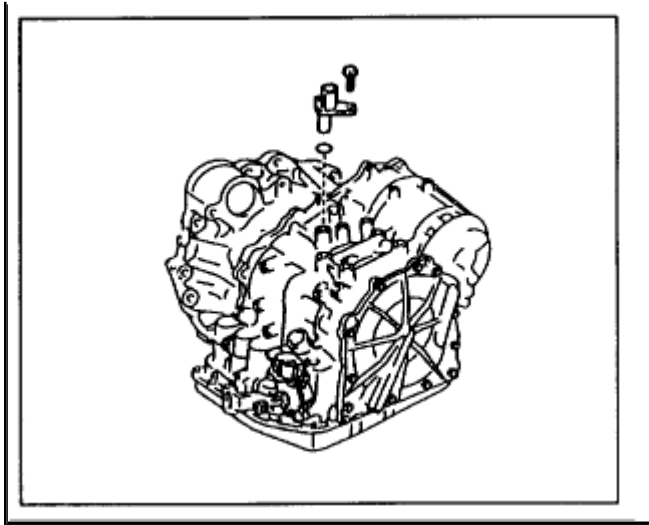
OP CODE	DESCRIPTION	TIME	OPN	T1	T2
TC0004	Speed Sensor Bolt Sealing	0.7	91611-60825	65	48

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Applicable Warranty*:

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

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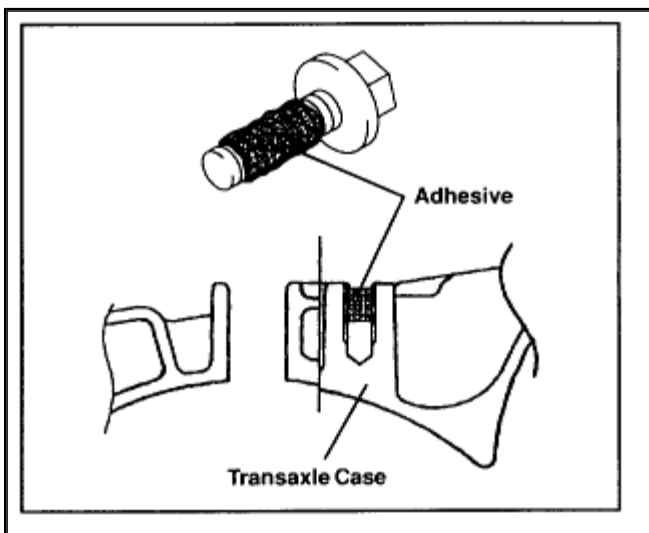
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1. Remove the counter gear speed sensor and 'O'-ring.
2. Clean the surfaces of the retaining bolt and the bolt hole.

CAUTION :Use protective eye-wear when spraying solvents and compressed air.

- A. Blow compressed air into the bolt hole to remove automatic transmission fluid.
 - B. Clean the bolt hole by using a spray cleaner (brake cleaner, etc.) into the hole.
 - C. Clean the bolt threads with a wire brush, then use a spray cleaner to remove debris.
 - D. Repeat the above steps (A through C) 2 to 3 times.
3. Install the speed sensor.

- A. Coat the 'o'-ring with automatic transmission fluid and install it on the sensor.



ZOOM

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- B. Lightly apply 1344 sealer (P/N 0883-00080) to the bolt threads and the bolt hole on the transaxle case, as shown.
4. Install the speed sensor with the retaining bolt.

Torque: 11.3 Nm (115 kgf cm, 8 ft)

5. Let the vehicle sit for at least 30 minutes without running the engine.

6. Start and run the vehicle for several minutes. Check for automatic transmission fluid leakage around the bolt hole.



Technical Service BULLETIN

December 7, 2001

Title:

ACCESSORY DRIVE BELT/ BELT TENSIONER ASSEMBLY NOISE

Models:

'00 - '01 Celica & MR2 Spyder

ENGINE
EG014-01

Introduction Some 1ZZ-FE and 2ZZ-GE engines may exhibit squealing and/or rattling noises emanating from the engine compartment during vehicle operation, especially during deceleration at slow speeds after cold soak. The Accessory Drive Belt and Belt Tensioner have been improved to correct this condition.

Applicable Vehicles

- 2000 - 2001 model year Celica GT/GTS and MR2 Spyder vehicles produced BEFORE the Production Change Effective VINs listed below.

Production Change Information

MODEL	PRODUCTION CHANGE EFFECTIVE VIN
Celica GT	JTDDR32T#10106005
Celica GTS	JTDDY38T#10049473
MR2 Spyder	JTDFR320#10039271

Parts Information

VEHICLE	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME
Celica GT w/ AC	90916-02432	90916-02534	Accessory Drive Belt
Celica GT w/o AC	90916-02468	90916-02535	
Celica GTS	90916-02310	90916-02540	
MR2 Spyder	90916-02486	90916-02537	
Celica GT Celica GTS MR2 Spyder	16601-22010	16601-22011	Belt Tensioner Sub-Assembly (Hydraulic Cylinder)
	N/A	90105-08415	Bolt, Flange
Celica GT MR2 Spyder	16620-22010	16620-22011	Belt Tensioner Assembly, Complete
Celica GTS	16620-22030	16620-22031	Belt Tensioner Assembly, Complete

Warranty Information

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
EG8001	R & R Accessory Belt Tensioner	0.6	16620-22010	91	99

Applicable Warranty*:

This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.



Toyota Supports ASE Certification

Page 1 of 2

Roof Side Weatherstrip - Revised Installation[BODY](#)

BO022-00

August 25, 2000

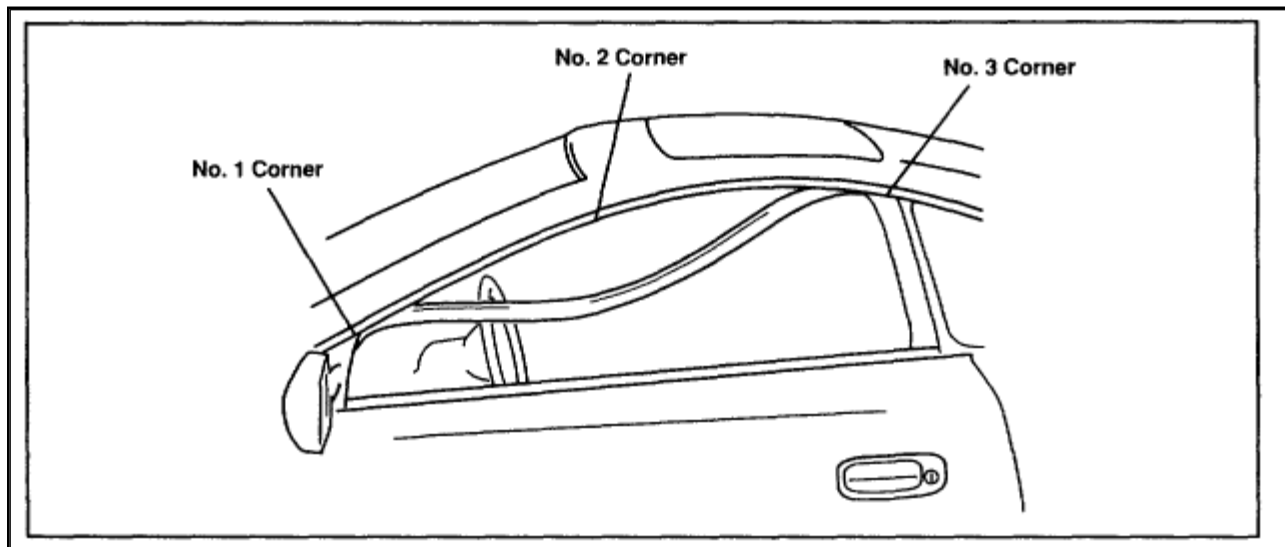
Title:

ROOF SIDE RAIL WEATHERSTRIP POOR RETENTION

Models:

'00 Celica

Introduction

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The installation method of the roof side rail weatherstrip has been modified to improve retention between the No. 1 and No. 3 corners on 2000 model year Celica vehicles. The part has not been changed. Use the following installation instructions to reinstall the roof side rail weatherstrip on vehicles with the above concern.

Applicable Vehicles

^ 2000 model year Celica vehicles.

MODEL	STARTING VIN
Celica GT	JTDDR32T7Y0043035
Celica GTS	JTDDY32TX0026202

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Production Change Information

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
671351	Reinstall Front Roof Side Rail Weatherstrip (One Side)	0.2	6238#-20120	62	57
Combo Code A	Other Side	0.1			

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Warranty Information

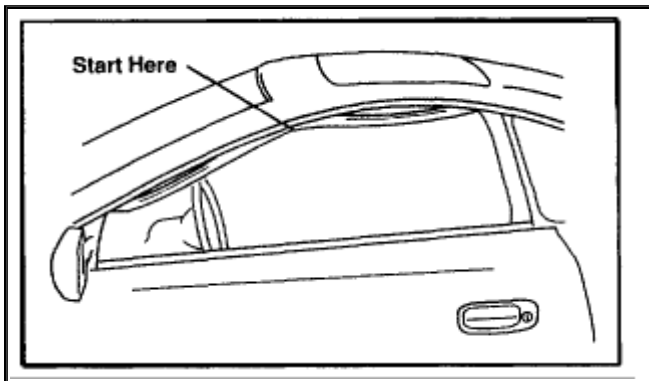
Applicable Warranty*:

This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Modified Procedure

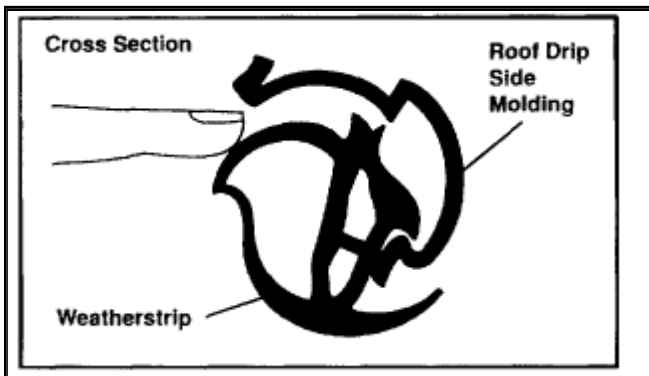
1. Check weatherstrip for deformation. Installation and/or damage.



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2. If the weatherstrip is in good condition, start by installing the weatherstrip in the No. 2 corner. If the weatherstrip is damaged, replace the weatherstrip.

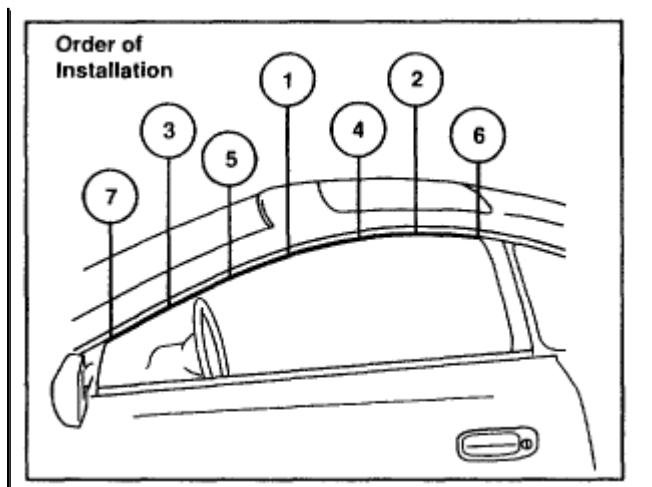


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3. Hook the bottom edge of the weatherstrip into the roof drip side molding first. Then, using your fingers, install the top edge of the weatherstrip into the molding.

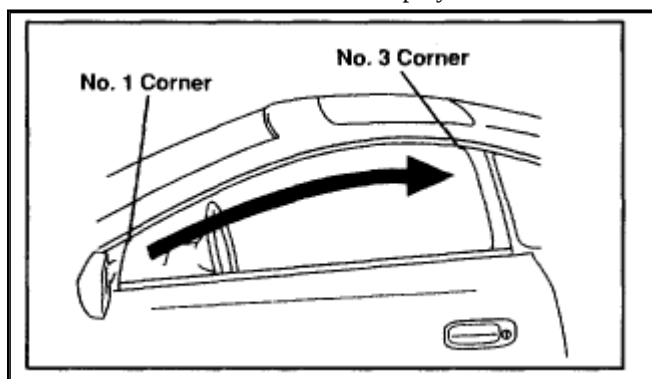




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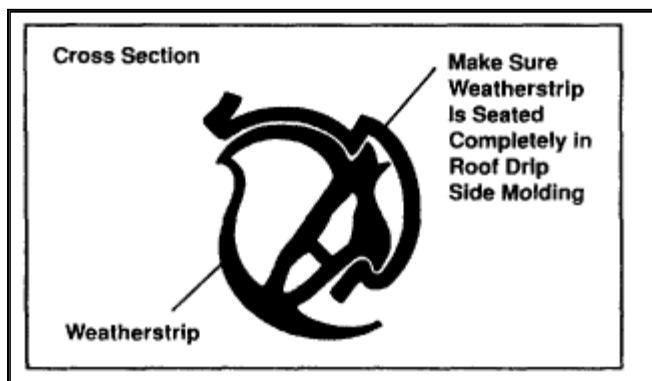
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4. Continue to install the weatherstrip by hand in the order shown in the illustration.



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5. Using finger pressure, press the length of the weatherstrip between the No. 1 and No. 3 corners to verify that the weatherstrip is seated completely in the roof drip side molding as shown in illustration.

Outside Door Handle - Loose

[BODY](#)

BO023R-00

REVISED

Title:

OUTER [DOOR HANDLE](#) LOOSE

Models:

'00 Celica

September 15, 2000

TSB Revision Notice :Information is updated in this bulletin.

Introduction

The outer [door handle](#) on some 2000 model year Celica vehicles may appear to be loose due to a gap between the door handle and door panel. A production countermeasure has been implemented. Use the following procedures to reduce outer door handle movement concerns.

Applicable Vehicles

^ 2000 model year Celica vehicles.

MODEL	STARTING VIN
Celica GT	JTDDR32T3Y0035997
Celica GTS	JTDDY32T2Y0022399

[ZOOM](#)

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Production Change Information

PART NUMBER	PART NAME
08231-00801	Interior Noise Kit

[ZOOM](#)

[SIZED FOR PRINT](#)

Parts Information

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
BD0032	Add Felt & Readjust Outer Door Handle (Left & Right Side)	1.2	692#0-20370-##	62	43

[ZOOM](#)

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Warranty Information

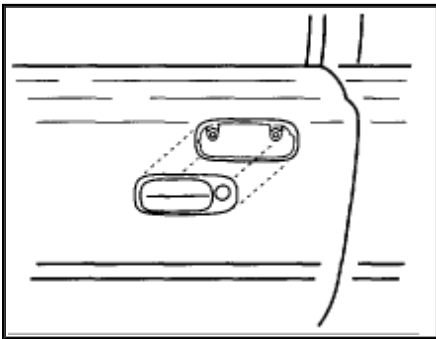
Applicable Warranty*:

This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Repair Procedure

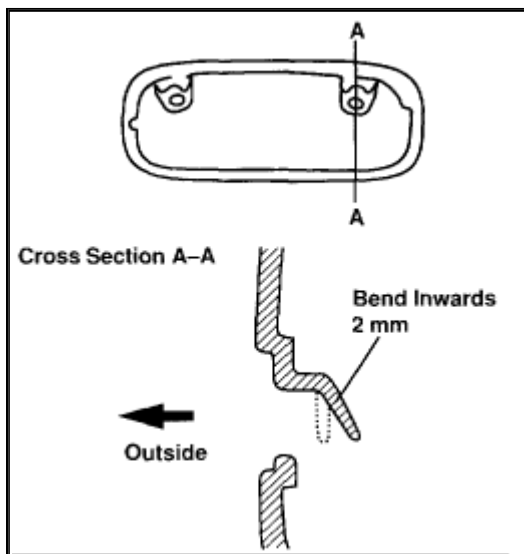
1. Remove the door trim panel. (Refer to the 2000 MY Celica Repair Manual, page BO-12.)
2. Peel back the moisture barrier.
3. Disconnect the door lock rod.
4. Disconnect the [door handle](#) rod.



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5. Remove the 2 bolts on the outer [door handle](#).
6. Remove the outer [door handle](#).



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7. Adjust both mounting tabs inwards 2 mm as shown in illustration.
8. If the outer [door handle](#) is still loose after adjusting the mounting tabs, install EPT sealer as indicated below:

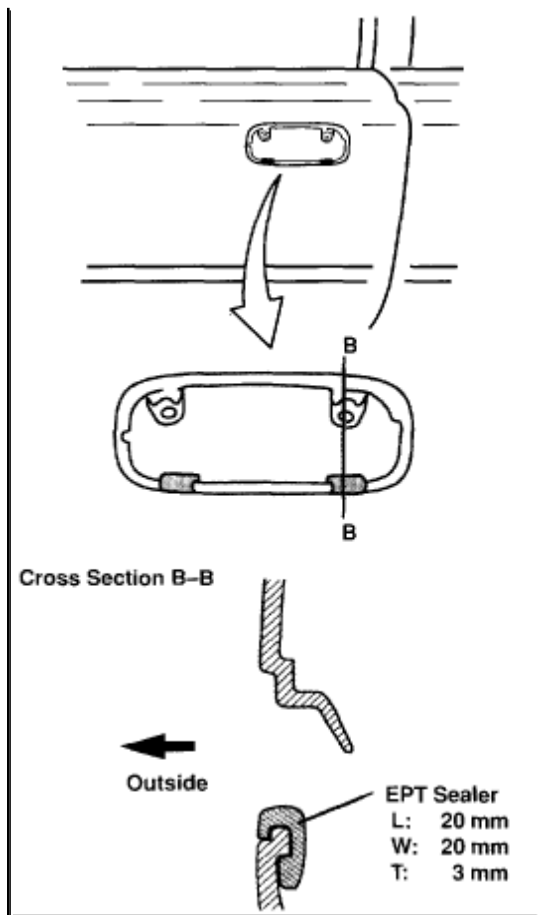
Length:	Width:	Thickness:
20 mm	20 mm	3 mm

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- A. Cut 2 pieces of EPT Sealer in the following dimensions;





ZOOM

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B. Install EPT sealer as shown in illustration.

NOTE: Make sure EPT sealer doesn't show when viewed from outside the vehicle.

9. Reassemble in the reverse order of disassembly.

Brakes - Clicking Noise**BRAKES**

BR004-00

October 20, 2000

Title:

BRAKE PAD CLICKING NOISE

Models:

'90- '00 All Models

Introduction

A clicking type noise may be noticed when first applying the [brakes](#) after changing vehicle travel direction (Drive/Forward to Reverse, Reverse to Drive/Forward). This is a normal noise caused by the required [brake pad](#)-to-caliper clearances. When the direction of travel is changed, the brake pads may "shift" towards the new direction of travel. When the brake pad contacts the caliper, a clicking noise may be heard.

To minimize this clicking noise, a disc brake caliper grease has been made available for use during brake service/maintenance operations. Under normal usage conditions this grease should be effective for a period of 6 months to 1 year.

Applicable Vehicles

^ 1990 - 2000 model year Toyota vehicles, all models.

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME
N/A	08887-80609	Disc Brake Caliper Grease (50 g tube)

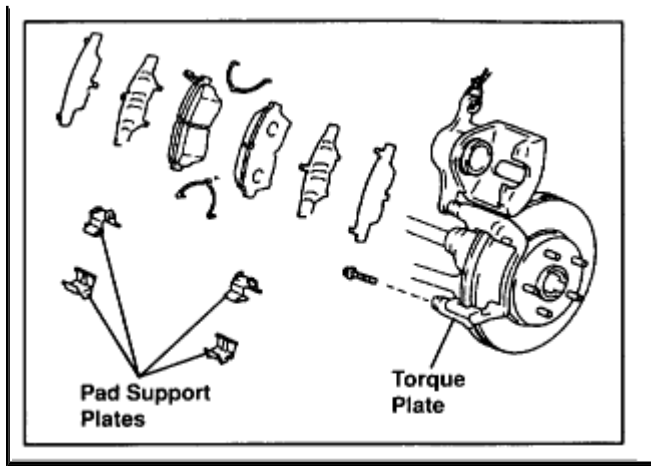
[ZOOM](#)[SIZED FOR PRINT](#)**Parts Information**

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
N/A	Not Applicable to Warranty	-	-	-	-

[ZOOM](#)[SIZED FOR PRINT](#)**Warranty Information****Application Procedure**

There are two types of [brake calipers](#): floating and fixed. Check the type of brake caliper installed on the vehicle by removing the wheel assembly.

1. Floating Type [Brake Caliper](#)



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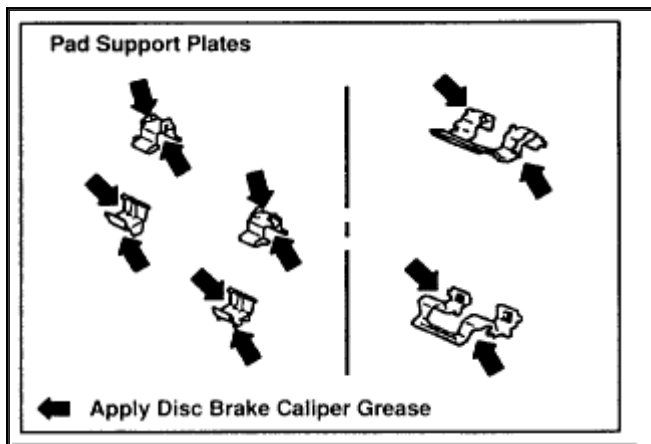
A. Lift up or remove the [brake caliper](#) and suspend it securely.

HINT :Do not disconnect the flexible hose from the [brake caliper](#).

B. If equipped with anti-squeal spring: Remove the anti-squeal springs.

C. Remove the [brake pads](#) with anti-squeal shims.

D. Remove the pad support plates from the torque plate. Clean any dust from the pad support plates, torque plates and [brake pads](#).

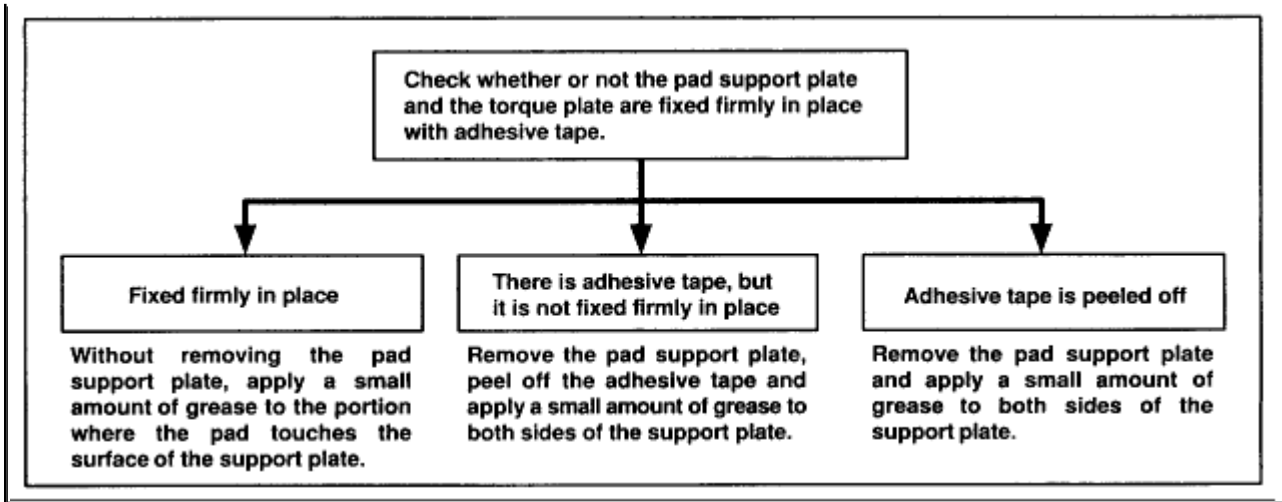


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E. Apply a small amount of the disc brake caliper grease (1-2 mm thick) to both sides of the pad support plates.

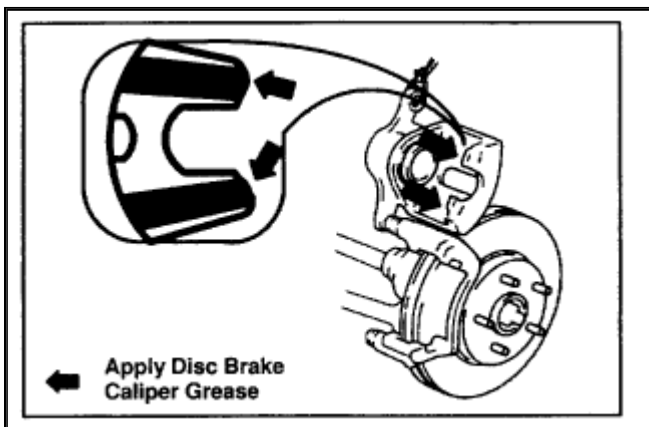
NOTE :Do NOT apply grease to the friction surfaces of the [brake pads](#) or the disc rotor.



ZOOM

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F. If the pad support plate is fixed to the torque plate with adhesive tape, perform the operation according to the flow chart.



ZOOM

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G. Apply a small amount of the disc brake caliper grease (1-2 mm thick) to the caliper as indicated in the illustration.

H. Install the [brake pads](#) with the anti-squeal shims.

I. If equipped with anti-squeal spring: Install the anti-squeal springs.

J. Press the piston in firmly and install the [brake caliper](#).

NOTE :

^ Clean excess grease. from [brake pad](#) and caliper.

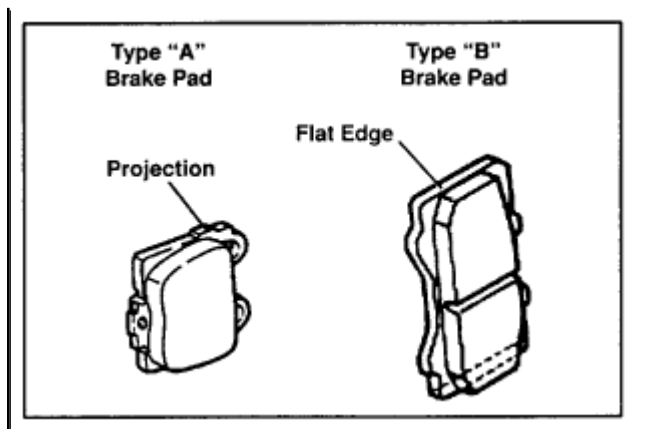
^ Do NOT apply grease to the friction surfaces of the [brake pads](#) or the disc rotor.

K. Install the wheel assembly.

2. Fixed Type [Brake Caliper](#)

There are two types of [brake pads](#):



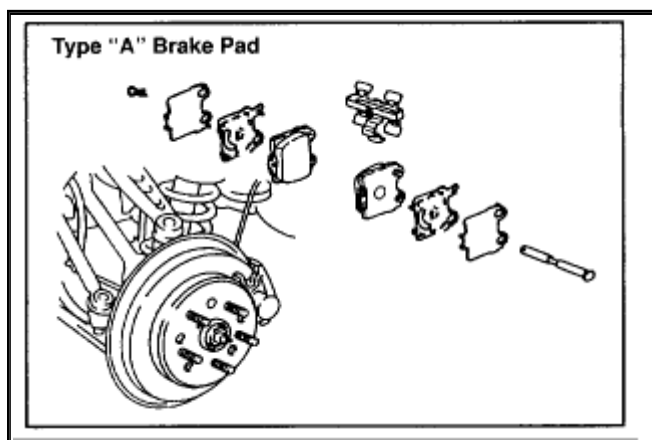


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^ Type "A": Has a projection on the upper and lower side of the [brake pad](#). (See illustration.)

^ Type "B": Has a flat upper and lower edge on the [brake pad backing plate](#).

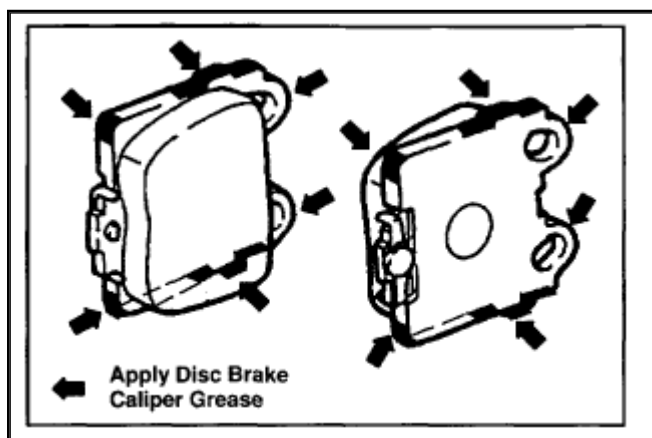


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Type "A" [Brake Pad](#)

- A. Remove the anti-squeal spring, clip and pad guide pin.
- B. Remove the [brake pads](#) with the anti-squeal shims.
- C. Clean any dust from the [brake pads](#).



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D. Apply a small amount of the disc brake caliper grease (1-2 mm thick) to the areas indicated in the illustration.

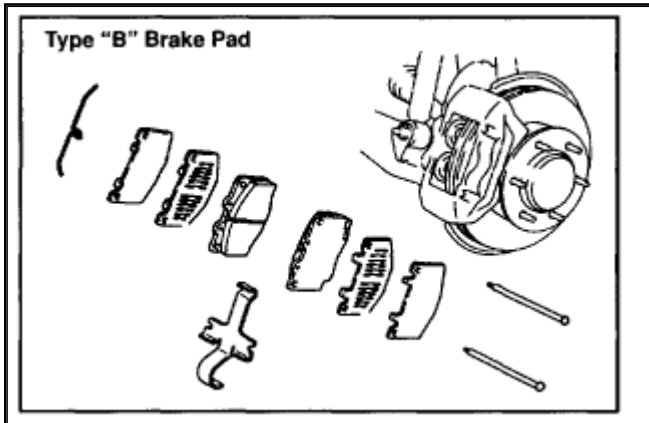
NOTE :Do NOT apply grease to the friction surfaces of the [brake pads](#) or the disc rotor.

E. Install the [brake pads](#) with the anti-squeal shims.

NOTE :Clean excess grease from the [brake pads](#) and caliper.

F. Install the pad guide pin, clip and anti-squeal spring.

G. Install the wheel assembly.



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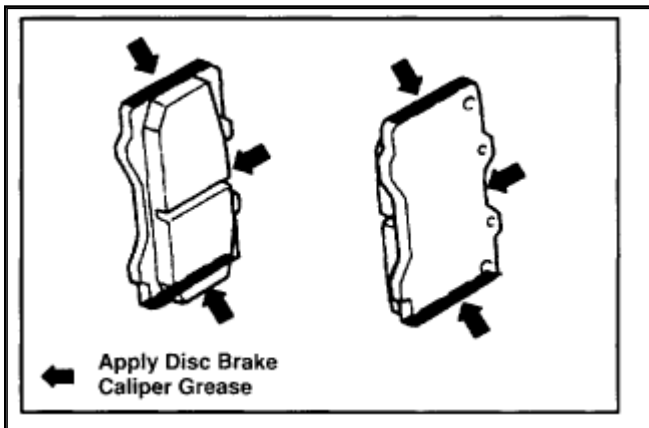
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Type "B" [Brake Pad](#)

A. Remove the clip, pins and anti-rattle spring/pad retainer clip.

B. Remove the [brake pads](#) with the anti-squeal shims.

C. Clean any dust from the [brake pads](#).



ZOOM

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D. Apply a small amount of the disc brake caliper grease (1-2 mm thick) to the areas indicated in the illustration.

NOTE :Do NOT apply grease to the friction surfaces of the [brake pads](#) or the disc rotor.

E. Install the [brake pads](#) with the anti-squeal shims.

NOTE :Clean excess grease from the [brake pads](#) and caliper.

F. Install the pad guide pin, clip and anti-squeal spring.

G. Install the wheel assembly.

Daytime Running Light - Disabling Procedure

ELECTRICAL

EL011-00

October 6, 2000

Title:

DAYTIME RUNNING LIGHT DISABLING PROCEDURE

Models:

All Models

Introduction

Some customers may request to have the Daytime Running Lights (DRL) on their Toyota vehicle disabled. These customers may live or work in military bases or in communities that have light-sensitive gates or guardhouses. This bulletin provides instructions for disabling the feature on the Toyota vehicles listed below. If the Daytime Running Lights (DRL) have been previously disabled, the information in this bulletin can be used to enable the feature at the request of the customer.

IMPORTANT :Please be sure the customer is informed that when the Daytime Running Lights (DRL) are being disabled, although it is not required by the Federal Motor Vehicle Safety Standards for safety compliance, it has been listed as a safety feature in advertising brochures. In addition, on models equipped with the Twilight Sentinel feature, the headlights will be defaulted to a manual system and will no longer function automatically.

MODEL	MODEL YEAR	ECU	CONNECTOR	PIN#	EWD PG#
Avalon	1999	DRL Main Relay	D4	1	110
	2000	Body ECU	B5	6	99
Camry S/D*	1999	DRL Main Relay	D6	23	102
	2000			10	96
Camry Solara*	1999/2000			23	102/96
Celica*	2000	Body ECU	B6	17	75
Corolla*	1999/2000	DRL Main Relay	D3	23	84/72
ECHO	2000		D2	12	67
4Runner	2000		D8	2	99
Land Cruiser	1999/2000				90/88
MR2 Spyder	2000		D2	12	69
RAV4	1999/2000		D17	2	72/70
Sienna	1999/2000		D4		83/81
Tacoma	2000		D8		115
Tundra	2000		D7		95

* Vehicles equipped with Twilight Sentinel.

ZOOM

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Applicable Vehicles

^ All Models equipped with Daytime Running Lights (DRL) (see chart).

TOOLS & MATERIALS	QUANTITY
Wire Harness Repair Kit	1

ZOOM

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Parts Information

NOTE :After referencing the chart, proceed to the repair procedure.

OPCODE	DESCRIPTION	TIME	OPN	T1	T2
N/A	Not Applicable to Warranty	-	-	-	-

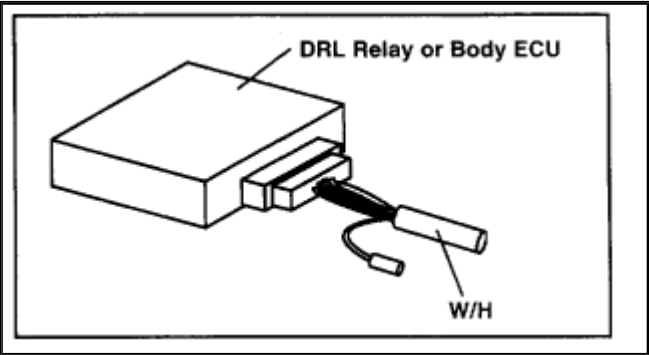
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Warranty Information

Repair Procedure

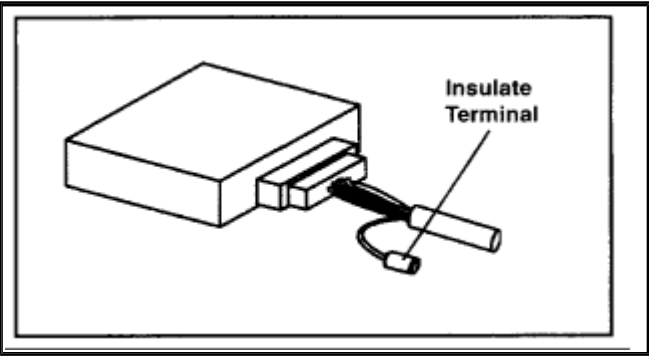
- 1. Disconnect the Battery.



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- 2. Use the locking pick tool from the wire harness repair kit and back out the terminal from the appropriate connector for the DRL Relay or Body ECU. See the Reference Chart as shown in this bulletin for pin and connector information.

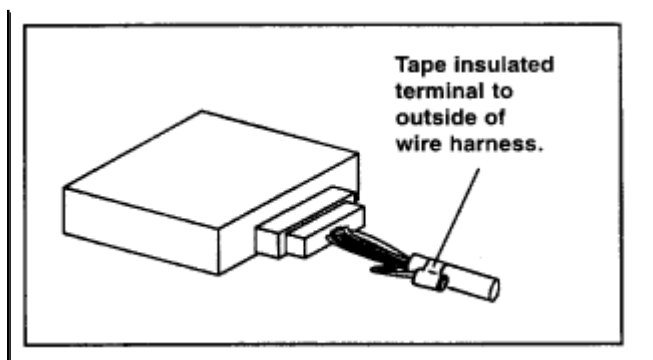


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- 3. Insulate the removed terminal using vinyl electrical tape.





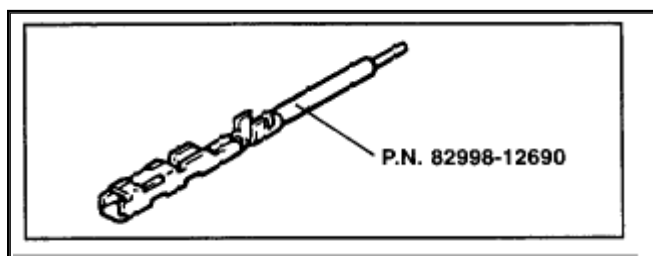
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4. Secure the wire and terminal to the outside of the wire harness using vinyl electrical tape.

NOTE :For the 2000 MY Avalon, proceed to Step 5. For all remaining models, proceed to Step 6.

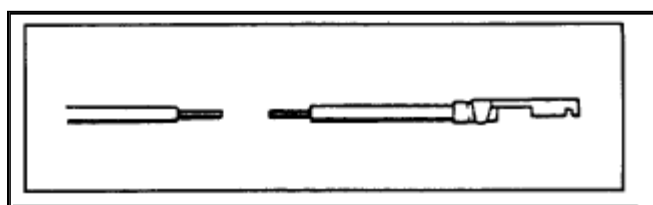
5. For 2000 model year Avalon:



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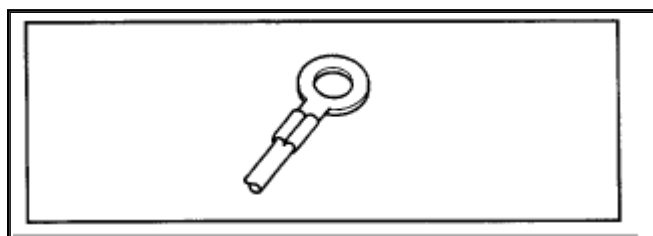
A. Order a new terminal with lead that is the same size and type as the terminal previously removed from the connector. (PN 82998-12690)



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B. Securely attach a 45 cm/ 18 in wire with an outside diameter of 2.0 mm or larger to the tail of the new terminal.

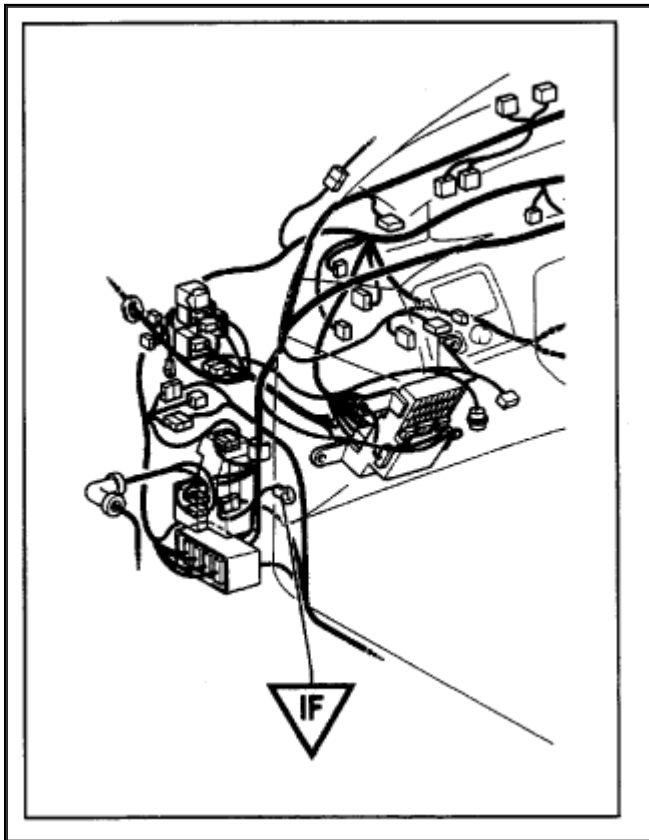


ZOOM

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C. Securely attach an eyelet with a hole size of 7 mm to the end of the new wire.

D. Insert the new terminal with lead into the Body ECU Connector B5, previously vacated by the original terminal.



ZOOM

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- E. Properly attach and route the new wire to the exterior of the existing wire harness in a manner that will not allow it to become damaged or come into contact with any other circuits.
- F. Securely attach the eyelet to the existing ground point located in the left kick panel area. (Ground Point IF)
- 6. Check that the Daytime Running Light (DRL) operation has been disabled.
- 7. Reassemble any interior panels that were removed to gain access to components, connectors, etc.

ECM/Fuel Injector - MIL ON, DTC's P0300/P030 Set

ENGINE

EG003-01

March 16, 2001

Title:

M.I.L. "ON" P0300, P030#

Models:

'00 Celica GTS

Introduction

Under certain driving conditions, some 2000 model year Celica GTS vehicles (2ZZ-GE engine) may exhibit M.I.L. "ON" with DTC P0300 (Random Misfire) and/or P030# (Single Cylinder Misfire). The Engine Control Module (ECM) logic and fuel injectors have been modified to correct this condition.

Applicable Vehicles

^ 2000 model year Celica GTS vehicles with 2ZZ-GE engine.

MODEL	ENGINE	MODIFICATION STARTED
Celica GTS	2ZZ-GE	2001 MY

[ZOOM](#)[SIZED FOR PRINT](#)

Production Change Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY/VEHICLE
89666-20082	89666-20083	Engine Control Module, MT	1
89666-20092	89666-20093	Engine Control Module, AT	1
23209-22030	23209-22060-01	Fuel Injector	4

[ZOOM](#)[SIZED FOR PRINT](#)

Parts Information

Repair Procedure

^ Should a M.I.L. "ON" condition with DTC P0300 and/or P030 # be encountered, perform diagnostic procedures as described in the Repair Manual.

^ If the problem source cannot be identified after checking all affected areas according to the Repair Manual, the cause may be an ECM logic/fuel injector malfunction. In this case, replace the ECM and all 4 fuel injectors with the updated parts.

NOTE: FOR AUTOMATIC TRANSMISSION-EQUIPPED VEHICLES-

With the countermeasure ECM (P/N 89666-20093) installed, the old button will not function while in the manual shifting ("M") mode. This countermeasure has been implemented for all 2001 model year Celica GTS ATM vehicles.

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
EG1001	R & R Engine Control Computer and R & R Fuel Injectors	1.1	89666-20082 or 89666-20092	99	99

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Warranty Information

Applicable Warranty*:

This repair is covered under the Federal Emissions Warranty. This warranty is in effect for 96 months or 80,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Keyless Entry System - Identification/Programming

ELECTRICAL

EL010-01

October 26, 2001

Title:

WIRELESS TRANSMITTER & PROGRAMMING GUIDE

Models:

All Applicable

Introduction

Difficulties during Remote Keyless Entry Transmitter Programming can arise due to confusion between Toyota Factory Wireless Systems and Toyota Port/Dealer installed Systems. This bulletin will assist in identifying the system/correct remote transmitters for each vehicle, and provide the location of the most accurate programming procedure for each system.

Applicable Vehicles

^ All applicable Toyota vehicles.

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
N/A	Not Applicable to Warranty	—	—	—	—

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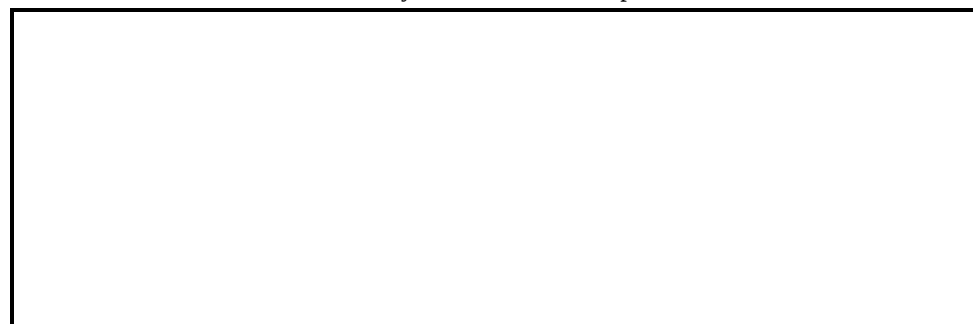
Warranty Information

System Identification

The table shown contains all of the necessary information to correctly identify the type Identification of system installed, and where to go to get programming procedures for each vehicle.

NOTE: Should a vehicle having both VIP and Factory Systems available (as identified in the table) be brought in without any remotes (or one non -working remote), use the following tips to help determine which type of wireless system (O.E. or PIO/DIO) the vehicle has.

- ^ Look at the Trim Level of the vehicle. Higher-grade vehicles will tend to have O.E. systems, while entry-grade vehicles will tend to have VIP For example, the 2001 Camry XLE has Factory RKE, but the LE and CE grades have VIP.
- ^ Look for a "Status Monitor" with a glass breakage sensor and an LED externally installed into the dashboard or on the center console. Most VIP systems will have this.
- ^ Locate the ECU (refer to the applicable vehicle VIP Manual installation instructions for location). Once located, refer to the part label.
- ^ Attempt to perform the factory wireless programming procedure to get a response from the vehicle. Select the "confirmation mode" and see if any "Lock/Unlock" response is received, if so, the vehicle has a factory system.



APPLICATION		DEALER/PORT INSTALLED		FACTORY INSTALLED	
VEHICLE	YEAR	SYSTEM/REMOTE	PROGRAMMING	FACTORY REMOTE	PROGRAMMING
Avalon	1995	TVSS / Fig. 2 ^{*1}	TVSS Owner's Guide	Fig. 8	TSB – EL003–99
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99		
	1998 – 1999	RS3000 / Fig. 4			
	2000 – 2001	RS3200 / Fig. 5	2000 VIP Manual ^{*6}	Fig. 9 ^{*2}	RM 02 V2, BE–99
	2002	N/A	N/A		
Camry	1990 – 1994	TVSS / Fig. 1 ^{*1}	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ^{*1}			
	1996	RS3000 / Fig. 3	TSB – AX005–99	Fig. 7	TSB – EL008–98
	1997				
	1998 – 1999	RS3000 / Fig. 4	2000 VIP Manual ^{*6}	Fig. 11	RM 01 V2, BE–86
	2000 – 2001	RS3200 / Fig. 5		Fig. 9 ^{*2}	RM 02 V2, 73–8
	2002	or 6			
Celica	1990 – 1994	TVSS / Fig. 1 ^{*1}	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ^{*1}			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99	Fig. 11	TSB – EL004–01
	1998 – 1999	RS3000 / Fig. 4			
	2000 – 2002	RS3200 / Fig. 5	2000 VIP Manual ^{*6}		
Corolla	1990 – 1994	TVSS / Fig. 1 ^{*1}	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ^{*1}			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99		
	1998 – 2002	RS3000 / Fig. 4			
Cressida	1991 – 1992	TDSE / Fig. 1 ^{*1}	TVSS Owner's Guide	N/A	N/A
ECHO	2000 – 2002	RS3200 / Fig. 5	2000 VIP Manual ^{*6}	Fig. 11	TSB – EL004–01
4Runner	1990 – 1994	TVSS / Fig. 1 ^{*1}	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ^{*1}			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99	Fig. 10 ^{*5}	RM 02 V2, BE–98
	1998	RS3000 / Fig. 4			
	1999				
2000 – 2002	RS3200 / Fig. 5	2000 VIP Manual ^{*6}			
Highlander	2001 – 2002	N/A	N/A	Fig. 11	TSB – EL004–01
Land Cruiser	1991 – 1994	TVSS / Fig. 1 ^{*1}	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ^{*1}			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99	Fig. 13	RM 02 V1, DI–624
	1998 – 2002	N/A	N/A		
MR2	1991 – 1994	TDSE / Fig. 1 ^{*1}	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ^{*1}			
	2001 – 2002	RS3200 ^{*3} / Fig. 5	2000 VIP Manual ^{*6}		

ZOOM

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APPLICATION		DEALER/PORT INSTALLED		FACTORY INSTALLED	
VEHICLE	YEAR	SYSTEM/REMOTE	PROGRAMMING	FACTORY REMOTE	PROGRAMMING
Paseo	1992 – 1994	TVSS / Fig. 1 ¹¹	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ¹¹			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99		
	1998	RS3000 / Fig. 4			
Previa	1991 – 1994	TDSE / Fig. 1 ¹¹	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ¹¹			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99		
Prius	2001 – 2002	N/A	N/A	Fig. 11	TSB – EL004–01
RAV4	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99	N/A	N/A
	1998 – 2000	RS3000 / Fig. 4			
	2001 – 2002	RS3200 / Fig. 5	2000 VIP Manual ¹⁶	Fig. 11	TSB – EL004–01
Sequoia	2001 – 2002	N/A	N/A	Fig. 10 ¹⁵	RM 02 V2, BE–100
Sienna	1998	RS3000 / Fig. 4	TSB – AX005–99	Fig. 7	TSB – EL009–98
	1999	RS3000 / Fig. 4		Fig. 11 / Fig. 12	
	2000	RS3000 / Fig. 4 ¹⁴	2000 VIP Manual ¹⁶		RM 02 V2, BE–87
	2001 – 2002	RS3200 / Fig. 5			
Solara	1999 – 2001	RS3000 / Fig. 4	TSB – AX005–99	Fig. 11	RM 02 V2, BE–87
	2002	N/A	N/A	Fig. 9 ¹²	
Supra	1991 – 1992	TDSE / Fig. 1 ¹¹	TVSS Owner's Guide	N/A	N/A
	1995	TDSE / Fig. 2 ¹¹			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99		
	1998	RS3000 / Fig. 4			
T100	1993 – 1994	TVSS / Fig. 1 ¹¹	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ¹¹			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99		
	1998	RS3000 / Fig. 4			
Tacoma	1995	TVSS / Fig. 2 ¹¹	TSB – AX005–99	N/A	N/A
	1996 – 1997	RS3000 / Fig. 3			
	1998 – 2001	RS3000 / Fig. 4	2000 VIP Manual ¹⁶		
	2002	RS3200 / Fig. 5			
Tercel	1991 – 1994	TVSS / Fig. 1 ¹¹	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ¹¹			
	1996 – 1997	RS3000 / Fig. 3	TSB – AX005–99		
	1998	RS3000 / Fig. 4			
Truck	1990 – 1994	TVSS / Fig. 1 ¹¹	TVSS Owner's Guide	N/A	N/A
	1995	TVSS / Fig. 2 ¹¹			
Tundra	2000 – 2002	RS3000 / Fig. 4	TSB – AX005–99	N/A	N/A

ZOOM

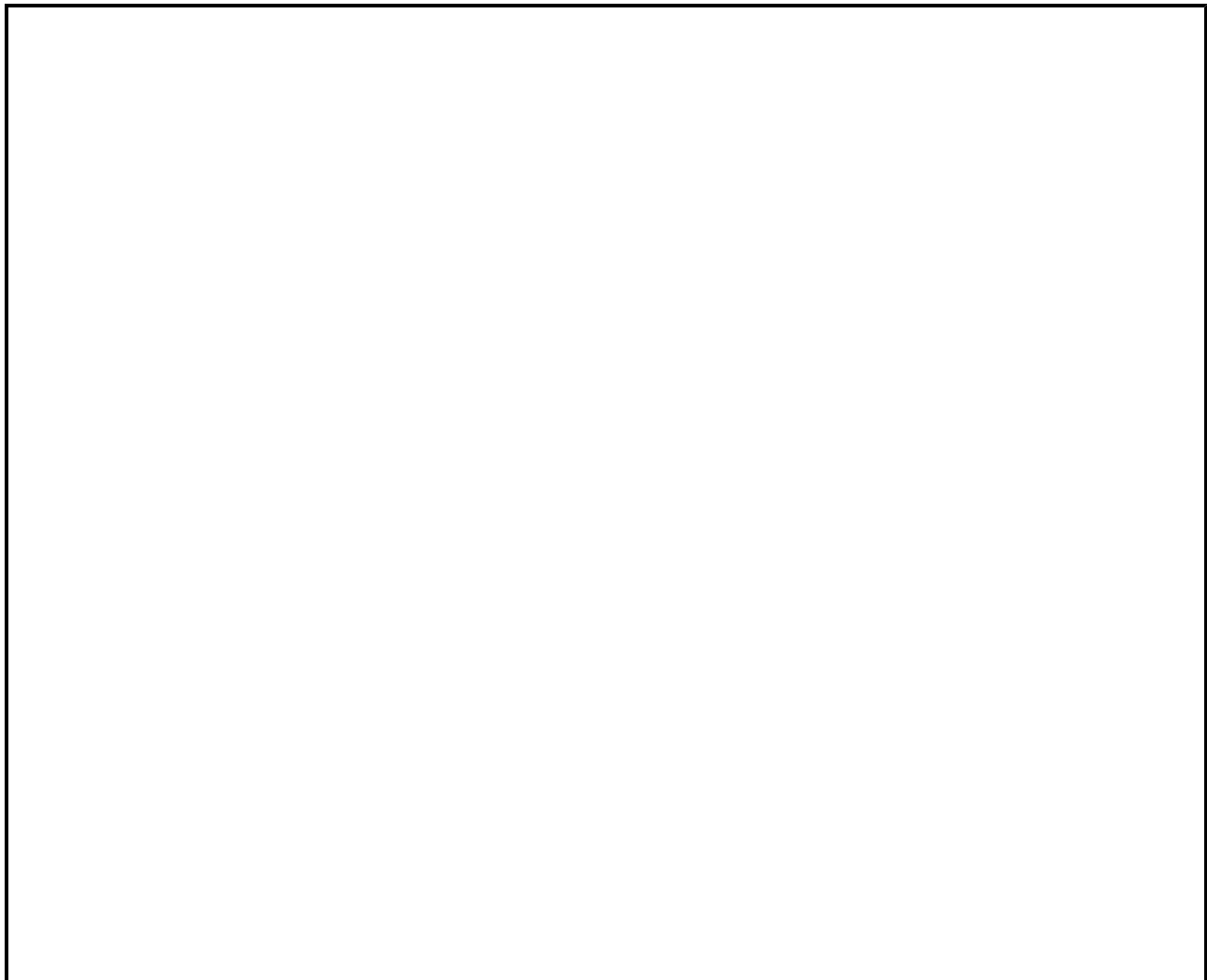
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- *1 Original style TVSS/TDSE system remotes are no longer available as replacement parts. Black RS3000 remotes (Figure 3) can be used with these systems.
- *2 While the outward appearances are the same, there are 3 different remotes of this style (not interchangeable). Check the FCC ID Number on the back of the remote to verify correct application:
 - Avalon 1998 – 1999 FCC ID: HYQ1512Y / 2000 – 2002 FCC ID: HYQ12BAN
 - Camry/Solara 2002 FCC ID: GQ43VT14T
- *3 The MR2 Spyder uses a variant of the RS3200 TDS system, which does not include the security functions. RS3200 programming procedures should be used for this vehicle.
- *4 RS3200 was launched prior to the 2001 MY Change Over. Please refer to the 2000 VIP Manual if necessary.
- *5 The Sequoia and 4Runner remotes look the same but have different FCC ID Numbers (not interchangeable)
 - 4Runner – FCC ID: HYQ1512Y
 - Sequoia – FCC ID: HYQ12BAN
- *6 RS 3200 programming procedures were sent as a supplement to the 2000 VIP Manual. If you require an additional copy of this information, it can be ordered from the Material Distribution Center (MDC) through your parts department: P/N 00107–00282–04.

ZOOM

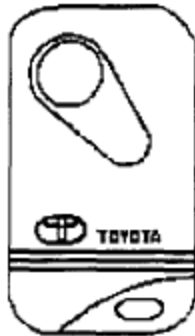
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Application Chart



DEALER or PORT INSTALLED SYSTEMS

Figure 1.



TVSS/TDSE
1990 - 1994

Figure 2.



TVSS/TDSE
1995

Figure 3.



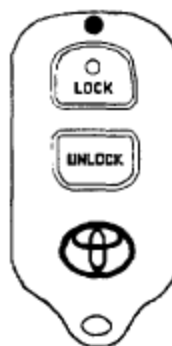
RS3000 (BLACK)
1996 - 1997

Figure 4.



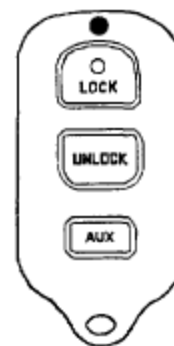
RS3000 (GRAY)
1998 - 2002

Figure 5.



RS3200
2000 - 2002

Figure 6.



RS3200
2000 - 2002

ZOOM

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FACTORY INSTALLED or "ORIGINAL EQUIPMENT" SYSTEMS

Figure 7.



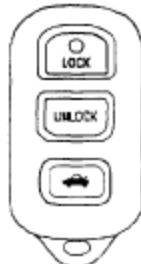
O.E. 3 Button
1997 - 1999

Figure 8.



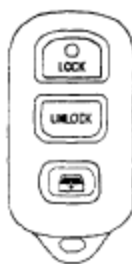
O.E. 3 Button
1995 - 1997

Figure 9.



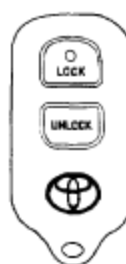
O.E. 4 Button*
2000 - 2002

Figure 10.



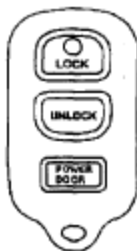
O.E. 4 Button*
1999 - 2002

Figure 11.



O.E. 3 Button*
2000 - 2002

Figure 12.



O.E. 4 Button*
1999 - 2002

Figure 13.



O.E. In-Key
1998 - 2002

* Panic Button on Back Side

ZOOM

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Wireless Transmitter Identification

Moon Roof - Creak Noise

NHV

NV008-01

August 17, 2001

Title:

MOON ROOF CREAK NOISE

Models:

'00 Celica

Introduction

The following procedure is required to correct moon roof creak noise. This condition is caused by dirt or dust between the moon roof seal and the moon roof opening in the roof causing friction.

Applicable Vehicles

^ 2000 model year Celica GT and Celica GTS vehicles.

MODEL	STARTING VIN
Celica GT	JTDDR32TX10070218
Celica GTS	JTDDY32T0Y0036379

ZOOM

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Production Change Information

TOOLS & MATERIALS	QUANTITY	PART NUMBER
Seal, Sliding Roof	1	63257-20030

ZOOM

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Required Material

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
BD1024	Seal, Sliding Roof	0.3	63257-20030	91	13

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Warranty Information

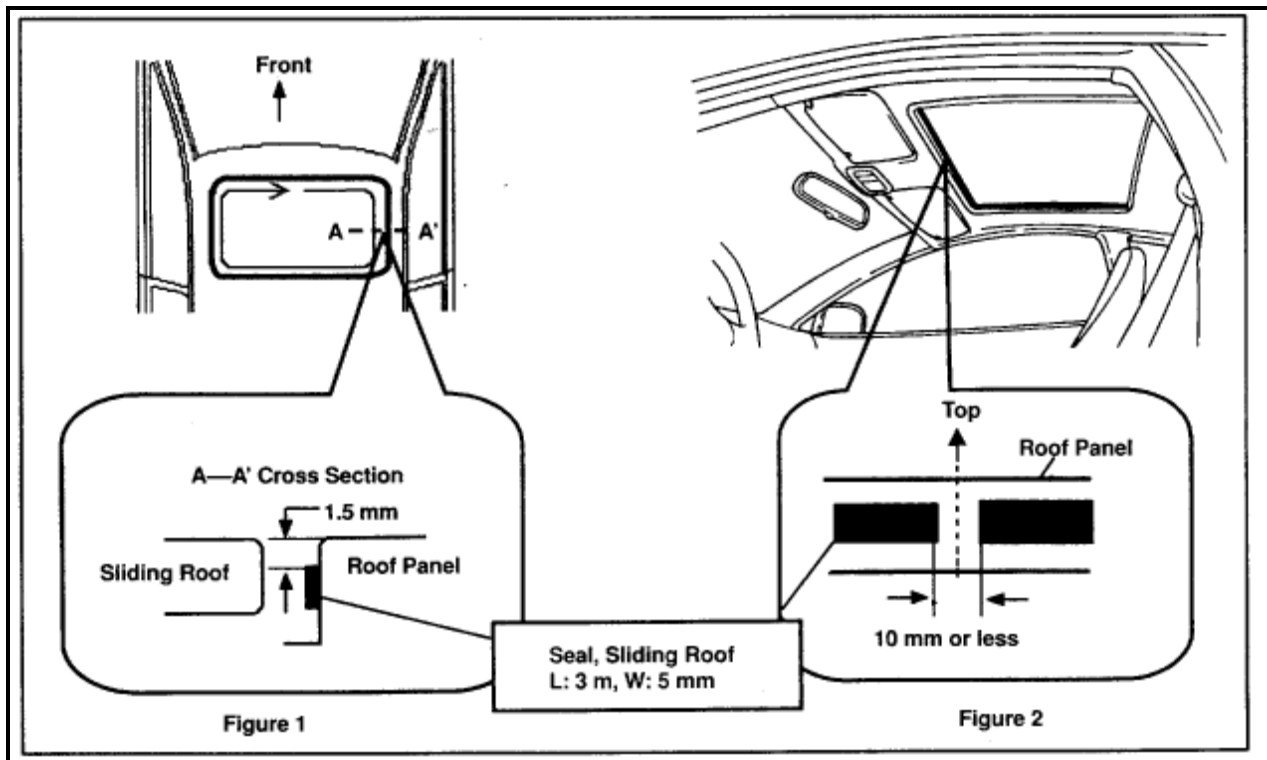
Applicable Warranty*:

This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Repair Procedure

1. Use alcohol to clean the inside surface of the roof [body](#) flange where the [Sliding Roof](#) Seal is to be applied.
2. Apply [Sliding Roof](#) Seal to the inside surface of the roof panel as follows:



ZOOM

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Applying position of the Seal to roof panel top surface - 1.5 mm (See Figure 1).

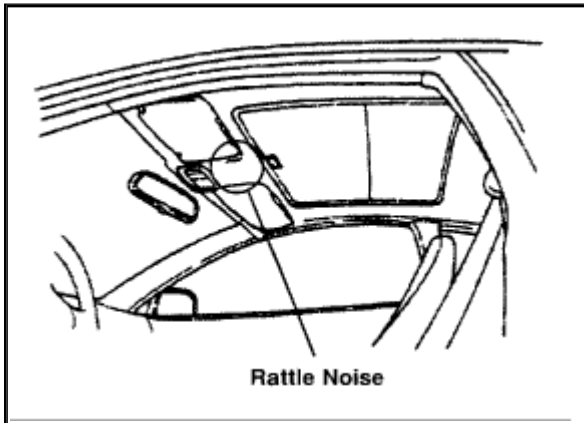
- a. Keep the [Sliding Roof](#) Seal lightly stretched when applying it.

Do not, however, stretch the [Sliding Roof](#) Seal when applying it to the corner of the roof panel.

- b. Cut the [Sliding Roof](#) Seal so that the gap will be 10 mm or less and the ends may not overlap (See Figure 2).
- c. Press the [Sliding Roof](#) Seal to let the air out of it.
3. Clean the outside of the moon roof weatherstrip.

Repair Procedure

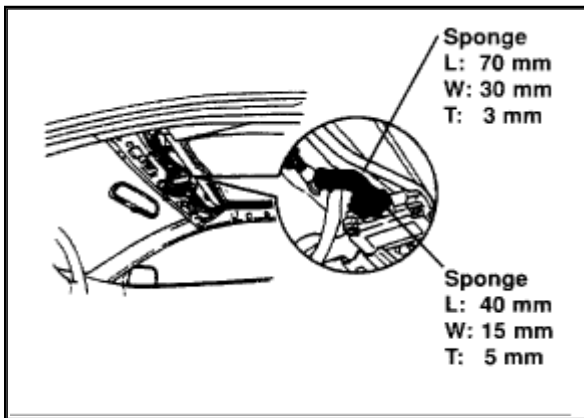
Front Roof Headlining Rattle Noise



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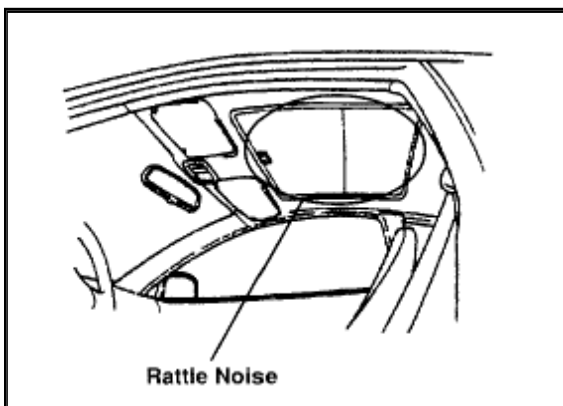
To eliminate the rattle noise from the front roof headliner (around the map light):



ZOOM

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1. Lower front of headliner. (Please refer to 2000 MY Celica Repair Manual pages BO-88 to BO-90.)
2. Wrap two urethane sponge pieces 70 mm x 30 mm x 3 mm and 40 mm x 15 mm x 5 mm to the [sliding roof motor](#) connector and wire as shown.
3. Reassemble the vehicle in the reverse order of disassembly.

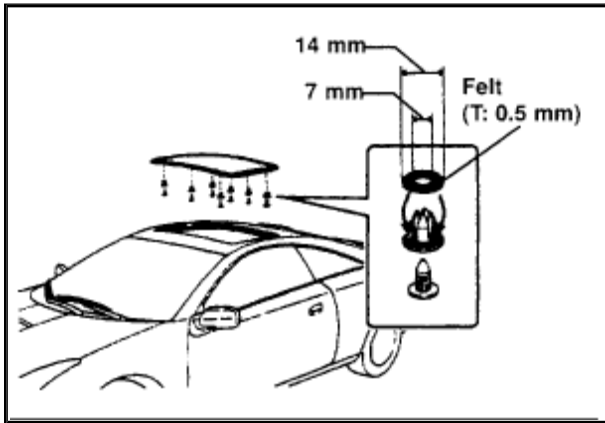


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[Sliding Roof](#) Rattle Noise

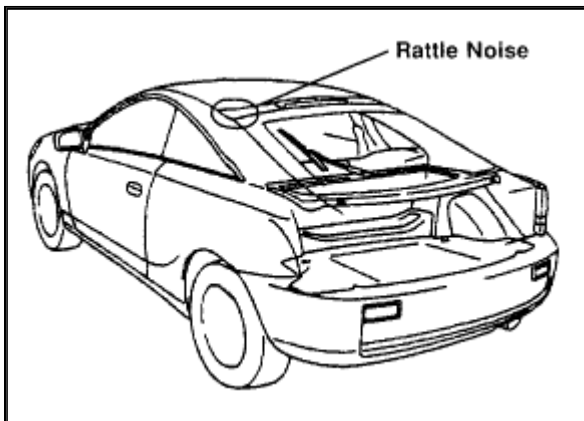
To eliminate the rattle noise from the [sliding roof](#) area:



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1. Remove [sliding roof](#) glass.
2. Remove 7 clips on the [sliding roof](#) glass.
3. Make and install felt washers (ID: 7 mm, OD: 14 mm, Thickness: 0.5 mm) under clips or replace all 7 clips with part number 90467-07152-CO as shown.

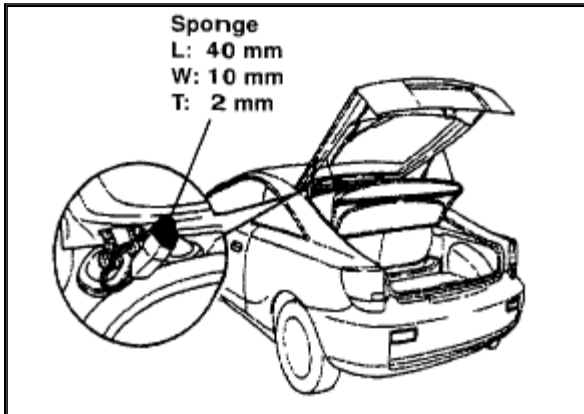


ZOOM

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Back Door Front Left Area Rattle Noise

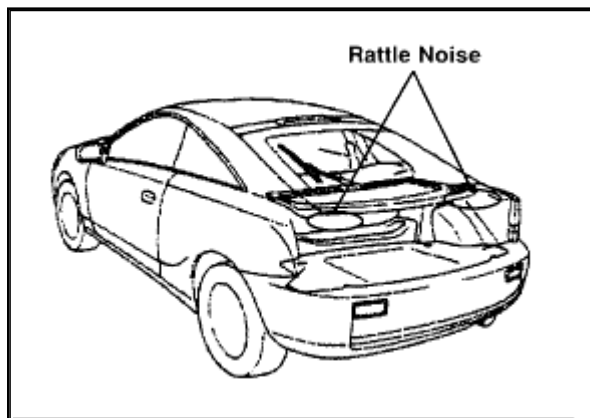
To eliminate the rattle noise from the back door front left area:



ZOOM

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Wrap a urethane sponge piece 40 mm x 10 mm x 2 mm to the center stop light connector as shown.



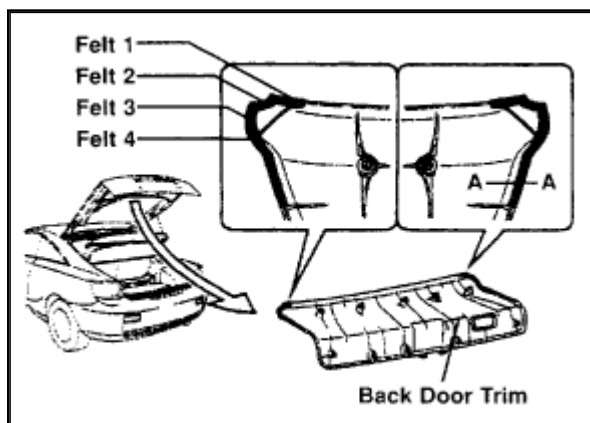
ZOOM

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Back Door Trim Rattle Noise

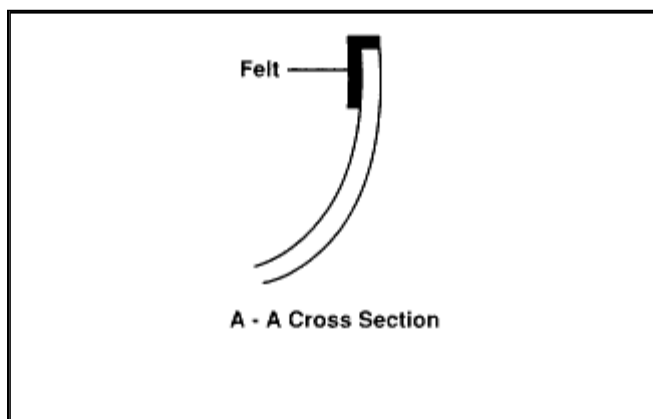
To eliminate the rattle noise from the back door trim:

1. Remove back door trim.



ZOOM

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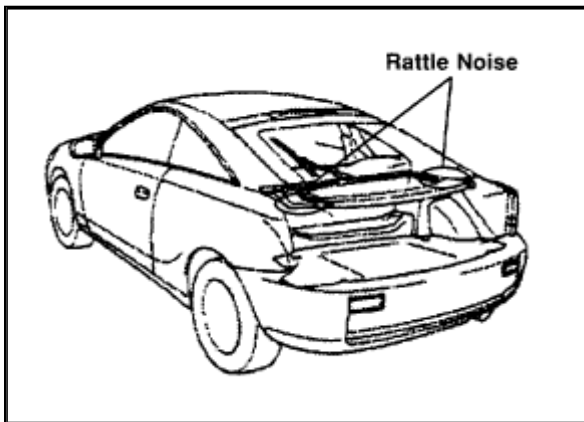


ZOOM

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2. Add 8 pieces of felt (see table) to the back door trim as shown.

	L :	W :	T :
Felt 1	32mm	10mm	1mm
Felt 2	35mm	10mm	1mm
Felt 3	33mm	19mm	1mm
Felt 4	115mm	10mm	1mm

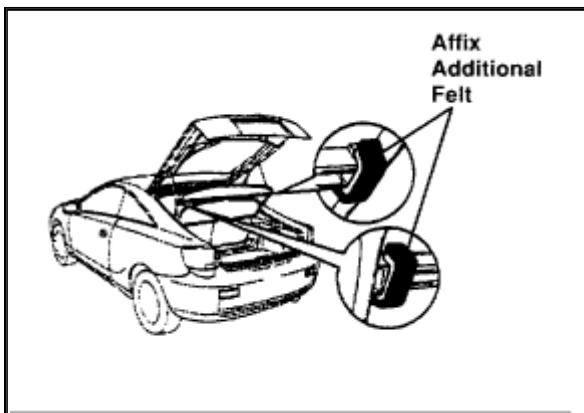


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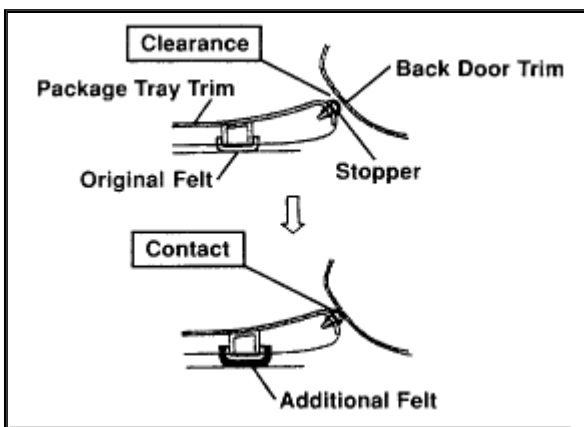
Package Tray Trim Rattle Noise

To eliminate the rattle noise from the package tray:



ZOOM

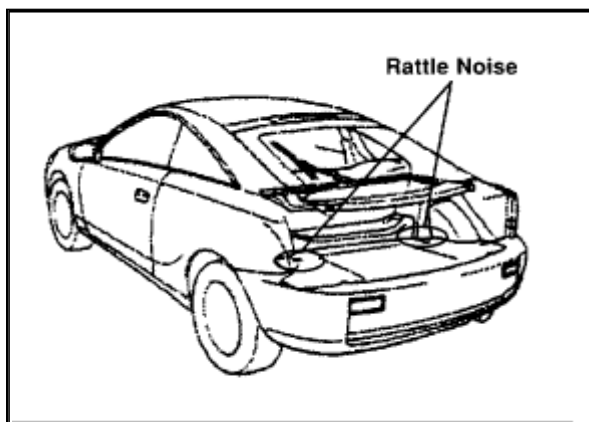
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Add felt to the package tray trim until there is no clearance between back door trim and stopper of the package tray trim as shown.

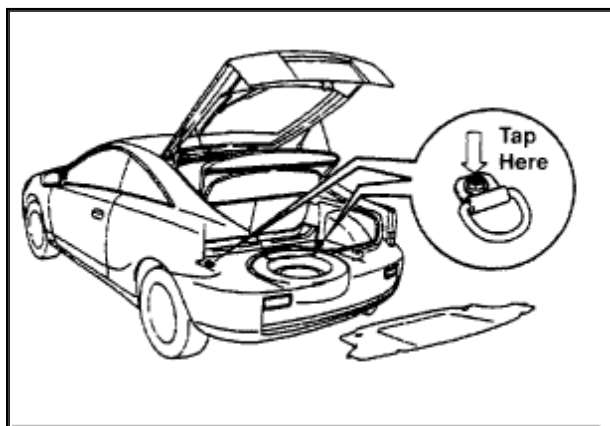


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Luggage Compartment Rattle Noise around Tie-down Hook (for vehicles without Deck Floor Box)

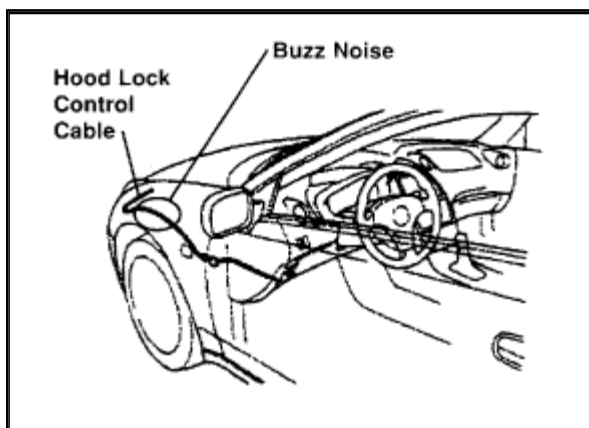
To eliminate the rattle noise from the tie - down hook in the luggage compartment:



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Tap the head of the tie-down hook bolts lightly with a rubber hammer.

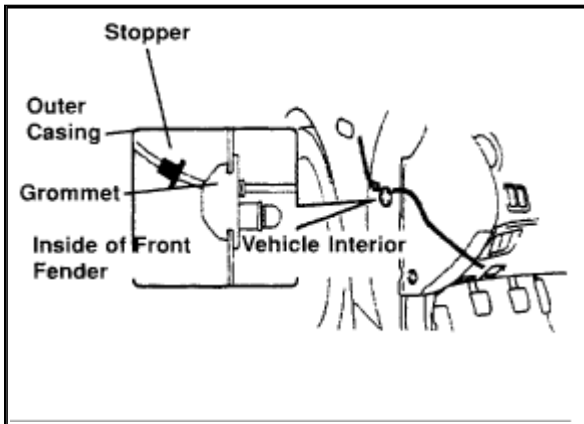


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Buzz Noise from Instrument Panel
(Hood Lock Control Cable)

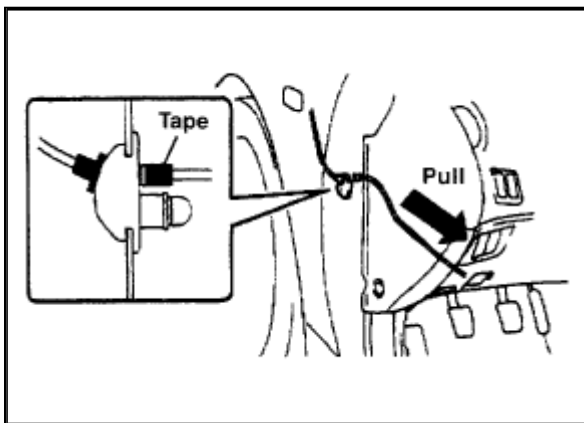
To eliminate the buzz noise from the left side instrument panel:



ZOOM

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1. Pull the outer casing of the hood lock control cable as shown until the stopper bottoms on the grommet.



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2. Add tape to the cable housing as shown to prevent cable from being pulled back.

SQUEAK AND RATTLE SERVICE TIPS

BULLETIN:

NV005-00

GROUP:

NVH

DATE:

March 10, 2000

TITLE:

SQUEAK & RATTLE SERVICE TIPS

MODELS:

'00 Celica

Introduction To reduce interior squeaks and rattles on the 2000 model year Celica, noise-absorbing materials have been added between parts at several locations. The following repair procedures have been adopted.

Applicable Vehicles

2000 model year Celica.

CONCERN	STARTING VIN (GT)	STARTING VIN (GTS)
Front Roof Headlining Rattle Noise	JTDDR32T0Y0011172	JTDDY32T6Y0006450
Sliding Roof Rattle Noise	JTDDR32T0Y0011172	JTDDY32T6Y0006450
Back Door Front Left Area Rattle Noise	Field Fix Only	Field Fix Only
Back Door Trim Rattle Noise	Field Fix Only	Field Fix Only
Package Tray Trim Rattle Noise	JTDDR32T8Y0015891	JTDDY32T2Y0009541
Luggage Compartment Rattle Noise around Tie-down Hook	JTDDR32T0Y0016520	JTDDY32T8Y0009995
Buzz Noise from Instrument Panel	Field Fix Only	Field Fix Only

ZOOM

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Production Change Information

Parts Information

PART NUMBER

08231-00801

90467-07152-C0

PART NAME

Interior Noise Kit

Clip



OPCODE	DESCRIPTION	TIME	OPN	T1	T2
BD9019	Lower Front of Headliner To Add Urethane Sponge to Electrical Connector	0.5	82171-2B170	91	44
BD9020	R & R Moonroof To Add Felt To Clip	0.2	90467-07152-C0		
BD9021	Add Felt To Electrical Connector	0.1	82184-202X0		
BD9022	R & R Back Door Trim To Add Felt	0.2	67751-20010-B0		
BD9023	Add Felt To Package Tray Trim	0.1	64330-2D430-B1		
BD9024	Tap Tie-Down Hook Bolts To Reduce Rattle	0.1	90105-06130		
BD9025	Add Tape To Hood Lock Control Cable	0.1	53630-20610		

ZOOM

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Warranty Information

Applicable Warranty*:

This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint

Left Front Mirror Wind Noise Reduction

Bulletin Number:

NV003-00

Group:

NVH

Date:

February 18, 2000

Title:

LEFT FRONT MIRROR WIND NOISE REDUCTION

Models:

'00 Celica

Introduction:

Countermeasures have been taken to reduce complaints of wind noise at the left front mirror.

Applicable Vehicles:

2000 model year Celica

MODEL	ENGINE	STARTING VIN
Celica GT	1ZZ-FE	JTDDR32T*Y0003825
Celica GTS	2ZZ-GE	JTDDY32T*Y0002832

ZOOM

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Production Change Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME
67864-20020	Same	Door Weatherstrip, LH

ZOOM

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Parts Information

OPCODE	DESCRIPTION	TIME	OPN	T1	T2
BD9015	Check Clearance Between Door Weatherstrip & Door Glass	0.1	67864-20020	59	43
BD9016	Modify Door Frame Width	0.2			
BD9017	Adjust Door Glass Fitting	0.3			
BD9018	Replace Door No. 2 Weatherstrip	0.4			

ZOOM

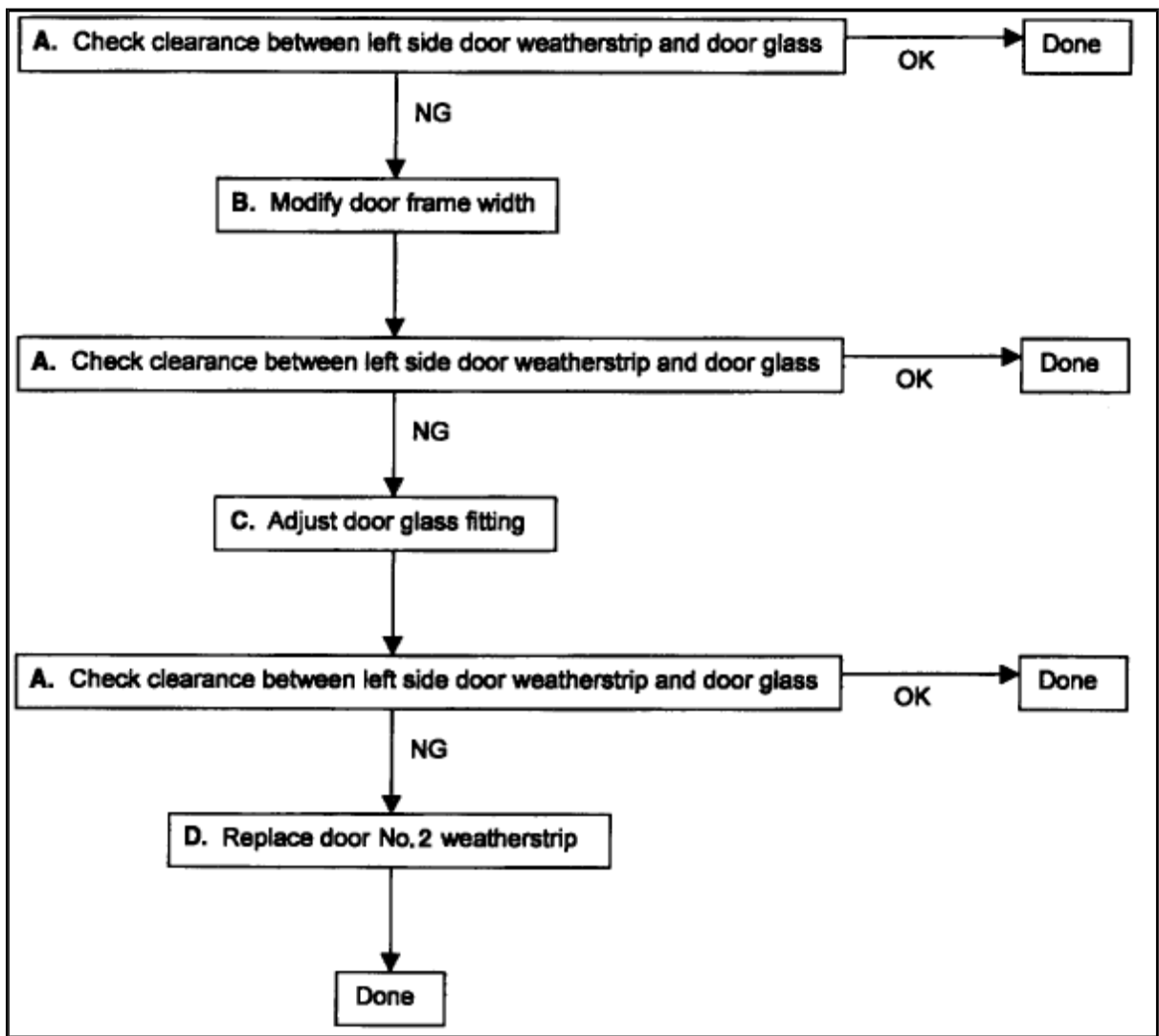
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Warranty Information

Applicable Warranty*:

This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

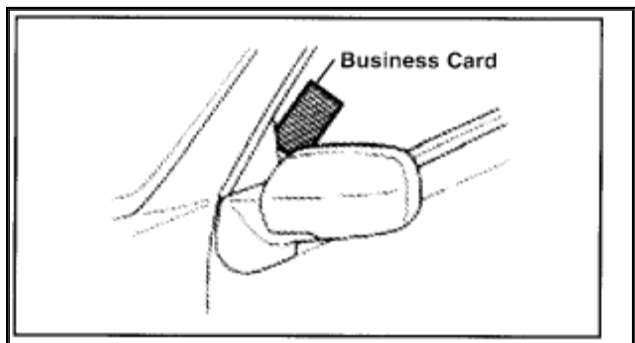
* Warranty application is limited to correction of a problem based upon a customer's specific complaint.



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Repair Procedure Flowchart:

Repair Procedure:

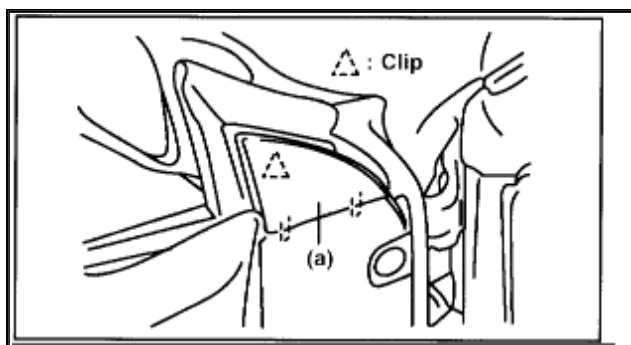


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A. Check Clearance Between Left Side Door Weatherstrip and Door Glass.

1. Insert a business card between the door glass and the weatherstrip as shown. If the business card falls between the door glass

and the weatherstrip, proceed to step B. If it does not, no repair is necessary.

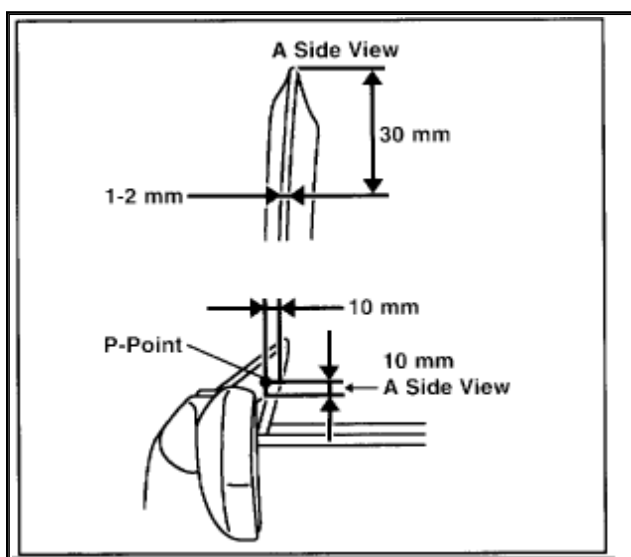


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B. Modify Door [Frame](#) Width.

1. Lower the door glass.
2. Remove the door mirror base cover (a) (with 1 clip and 2 cover claws).



ZOOM

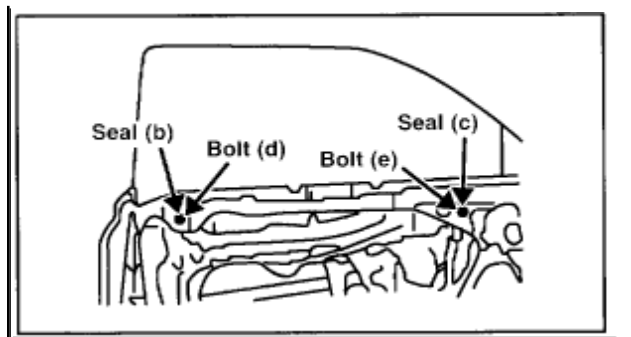
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3. Clamp the door [frame](#) using a C- clamp at point P to 1-2 mm.
4. Repeat step A to check clearance between the left side door weatherstrip and door glass.
5. If it passes this test, reassemble the vehicle in the reverse order of disassembly.
6. Continue to step C if it does not pass this test.

C. Adjust Door Glass Fitting.

1. Remove the door trim. Please refer to the 2000 MY Celica Repair Manual pages BO-11 through BO-12.

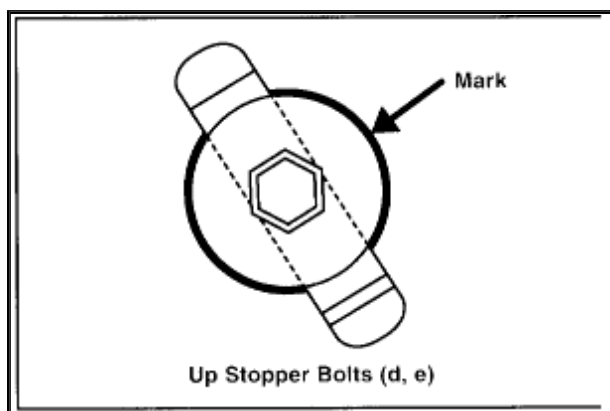




ZOOM

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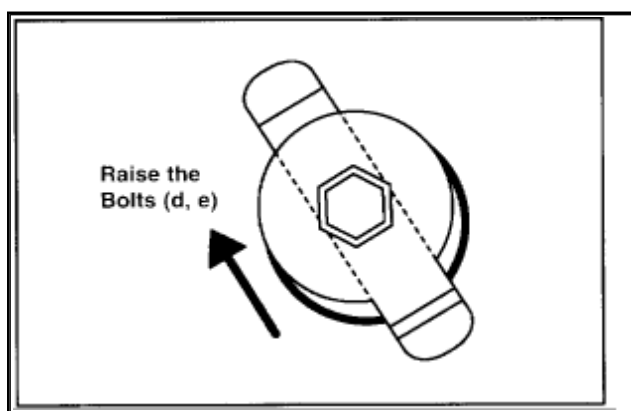
2. Remove seals (b, c) to expose the up-stop bolts (will be reused).



ZOOM

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3. Mark the original position of the up- stop bolts (d, e) using a marker.

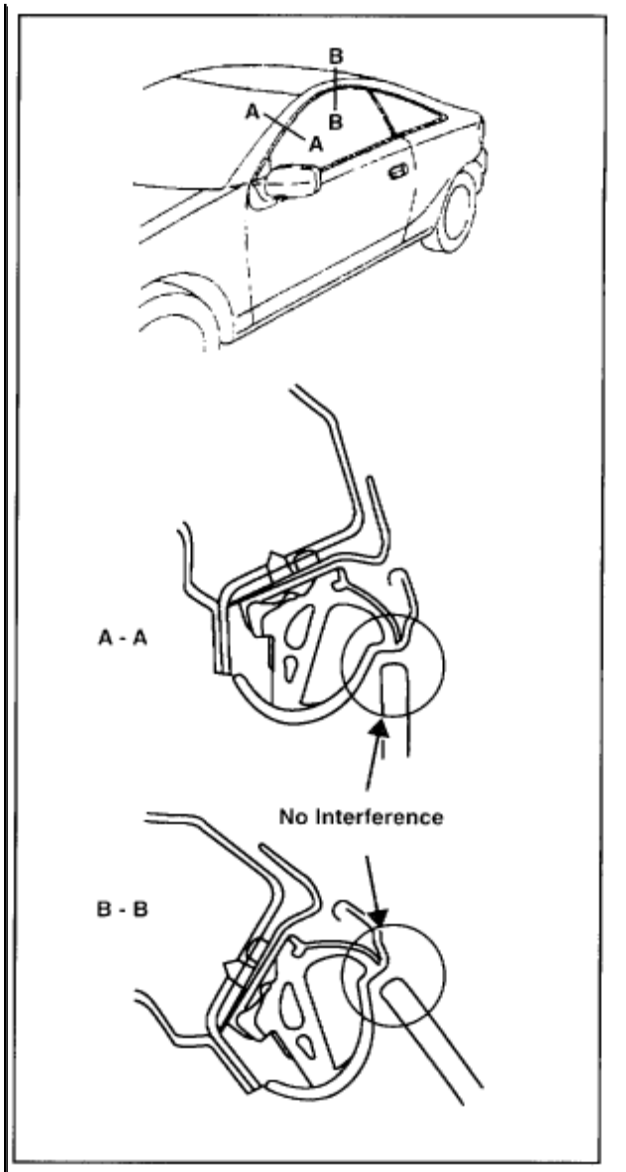


ZOOM

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4. Loosen the up-stop bolts (d, e). Raise the bolts 1.5 mm and tighten them in this new location.
5. Raise the door glass and close the door. Confirm that the door glass does not interfere with the root drip molding and the roof side weatherstrip.
6. Reinstall seals (b, c).

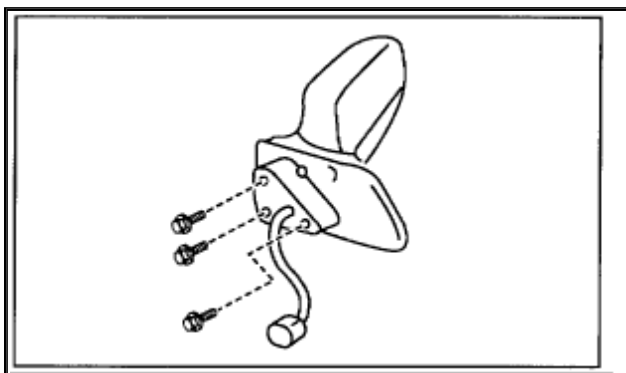




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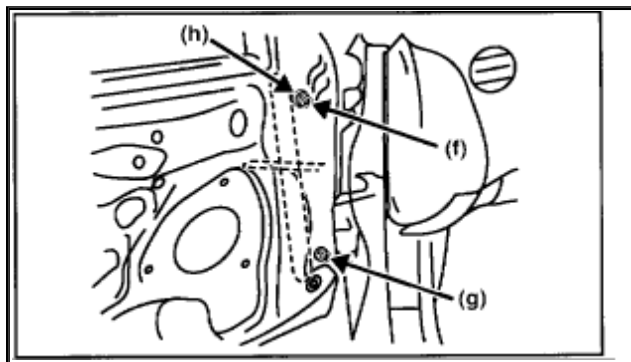
7. Repeat step A to check the clearance between the left side door weatherstrip and door glass.
 8. If it passes this test, reassemble the vehicle in the reverse order of disassembly.
 9. Continue to step D if it does not pass this test.
- D. Replacement of Door No.2 Weatherstrip.
1. Lower the door glass.



ZOOM

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2. Remove the door mirror (3 bolts and 1 connector).

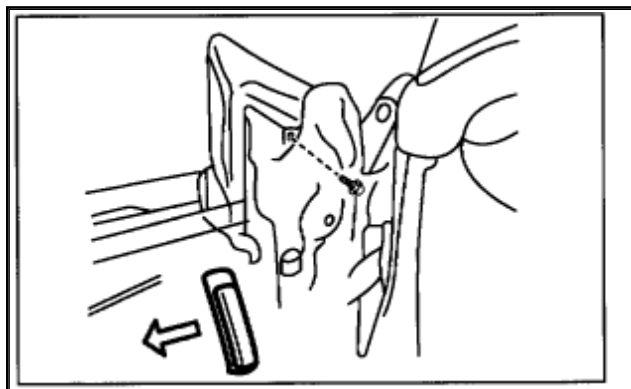


ZOOM

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3. Remove the inner plastic seal (f).
 4. Loosen the glass run rail lower bolt (g).
- NOTE:** Do not remove the lower bolt.

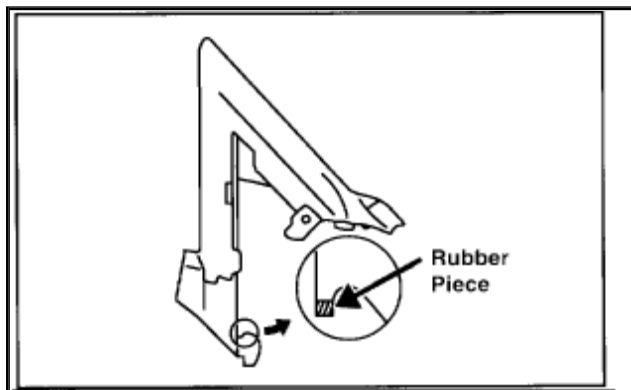
5. Remove the glass run rail upper bolt (h).



ZOOM

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6. Slide the glass run rail rearward and remove the door weatherstrip (2 plastic clips).



ZOOM

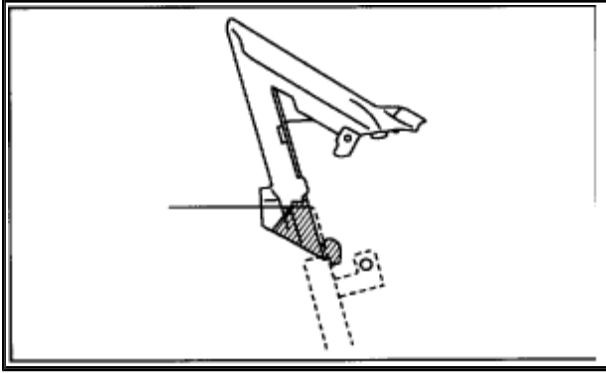
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7. Attach a rubber piece to a new door weatherstrip with glue as shown. Clean the mating surfaces before gluing the rubber piece in place.

Rubber piece size:

L x W x T

20 mm x 2 mm x 1.5 mm



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8. Install the new door weatherstrip (2 clips).
9. Reassemble the vehicle in the reverse order of disassembly.

NOTE: Be sure to fasten the bottom of the door weatherstrip between the glass run and door [frame](#).

M/T, 6 Speed, Shift Spring - Update

TRANSMISSION

TC001-00

June 2, 2000

Title:
SHIFT SPRING UPDATE

Models:
'00 Celica GTS

Introduction

To improve the shift feeling of the 6 speed manual transmission, the shift springs have been revised.

Applicable Vehicles

^ 2000 model year Celica GTS, 6 Speed MTM.

MODEL	STARTING VIN
Celica GTS, 6 Speed	JTDDY32T8Y0019684

[ZOOM](#)[SIZED FOR PRINT](#)

Production Change Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME
90501-16152	90501-20170	High Side Compression Spring
90501-16167	90501-20169	Low Side Compression Spring
90501-26089	90501-29051	Reverse Compression Spring

[ZOOM](#)[SIZED FOR PRINT](#)

Parts Information

Affected Repair Manual Pages

PUBLICATION	NUMBER	PAGES
2000 Model Year Celica, Vol. 2	RM744U2	BR-53, MX-4, MX-13, MX-14, MX-47

[ZOOM](#)[SIZED FOR PRINT](#)

The chart lists affected publication pages.

OPCODE	DESCRIPTION	TIME	OPN	T1	T2
TC0001	R & R Shift Springs (with ABS)	2.0	90501-16167	98	99
TC0002	R & R Shift Springs (without ABS)	1.5			

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Warranty Information

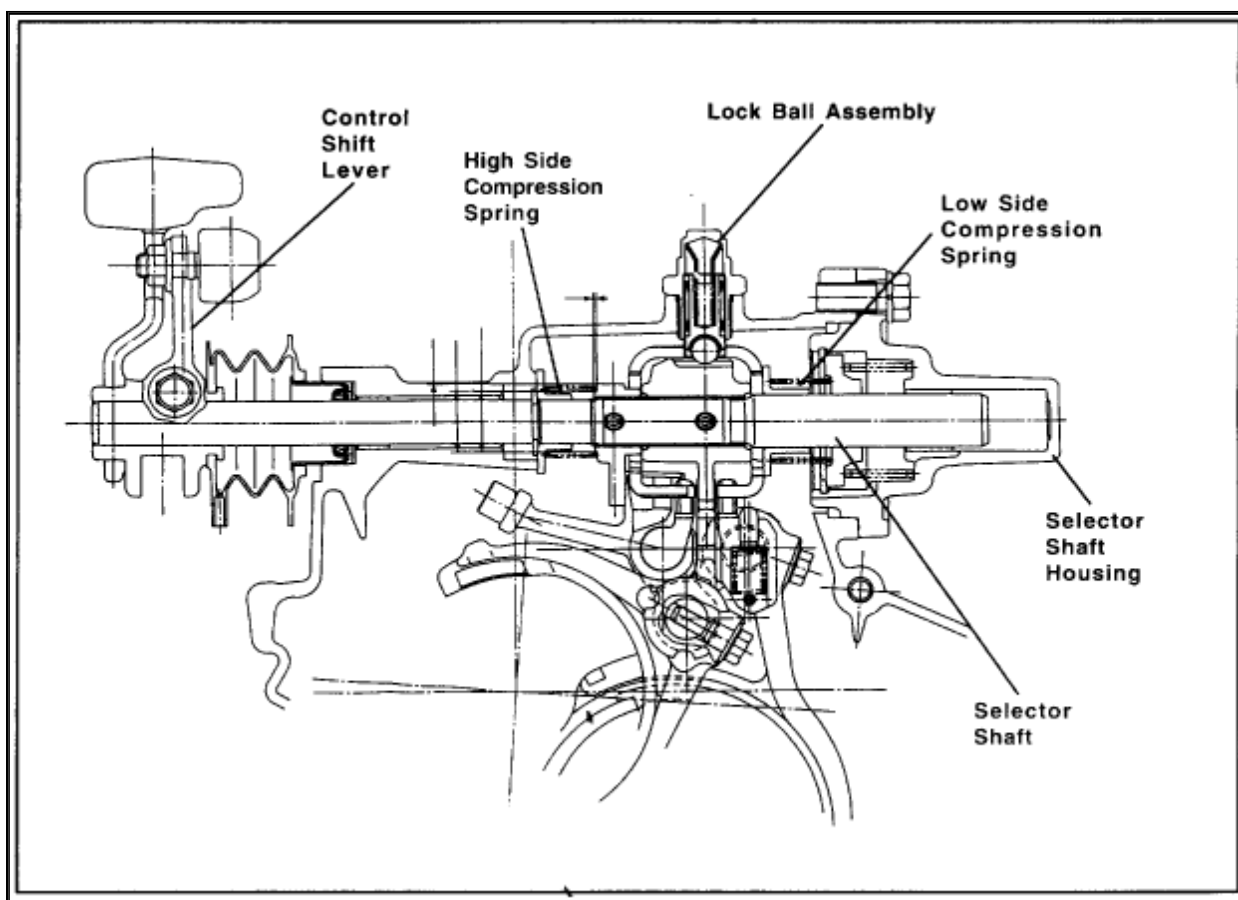
Applicable Warranty*:

This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Repair Procedure

1. Remove LH Engine Undercover, the Battery, Battery Tray and Engine ECU Box (MX-4, Steps 4 & 5). See the 2000 MY Celica Repair Manual listed pages for details.
2. Loosen the ABS Actuator bracket from the vehicle by removing the nuts & bolts (BR-53, Steps 6a & 6b) if equipped with ABS. The ABS Actuator will have to be moved out of the way when removing the Selector Shaft, but not removed from the vehicle.



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3. Remove the Selector Shaft by removing the Control Shift Lever, Lock Ball Assembly and the 4 bolts for the Selector Shaft Housing (MX-13 & MX-14, Steps 7, 8, & 10).
4. Remove the Reverse Compression Spring from the Selector Shaft Housing. Use caution when removing the Reverse Compression Spring as it is in compression (MX-14, Step 9)

5. Remove the Low Side Compression Spring from the Selector Shaft.
6. Remove the High Side Compression Spring from the Selector Shaft by removing the E-Ring and Spring Seat for the High Side Compression Spring. Use caution when removing the High Side Spring as it is in compression (MX-47).
7. Assemble in the reverse order.

Shoulder Belt Anchor - Preserving the Appearance

BODY

BO022 -01

September 14, 2001

Title:

SHOULDER BELT ANCHOR TAPE SET

Models:

All Applicable ECHO, Celica, Paseo, Prius & Tercel

Introduction

To assist customers in preventing particle buildup and preserve the appearance of the shoulder belt anchor, the following procedure has been developed.

Applicable Vehicles

- ^ 2000-2001 model year ECHO vehicles.
- ^ 1996-2001 model year Celica vehicles.
- ^ 1996-1997 model year Paseo (*1) vehicles.
- ^ 2001 model year Prius vehicles.
- ^ 1995-1998 model year Tercel vehicles.

(*1) Except convertible.

CURRENT PART NUMBER	PART NAME
73205-48011	Tape Set, Shoulder Belt Anchor
NOTE: The above tape set contains the fluorocarbon resin tape (2 pieces) and Velcro tape (1 piece).	

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Parts Information

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
BD1011	Clean the Shoulder Belt Anchor	0.3	73210-####-##*1 73220-####-##*1	61	99
*1 OPN should be part number of whichever belt assembly that the procedure is performed on.					

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Warranty Information

Applicable Warranty*:

This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

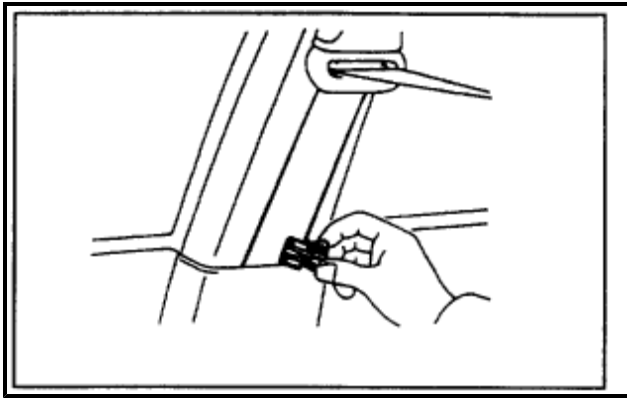
* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Installation Procedure

1. CLEAN SHOULDER BELT ANCHOR

NOTE:

- ^ Do not install the tape when the vehicle temperature is below the freezing point.
- ^ Do not re-use removed fluorocarbon resin tape.

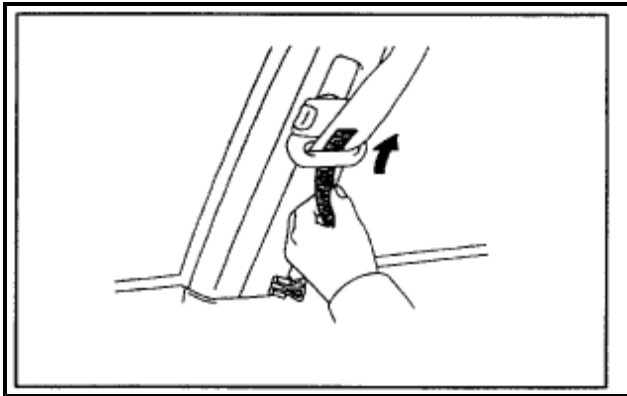


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A. Pull out the [seat belt](#) about 300 mm and attach a clip as shown in the illustration.

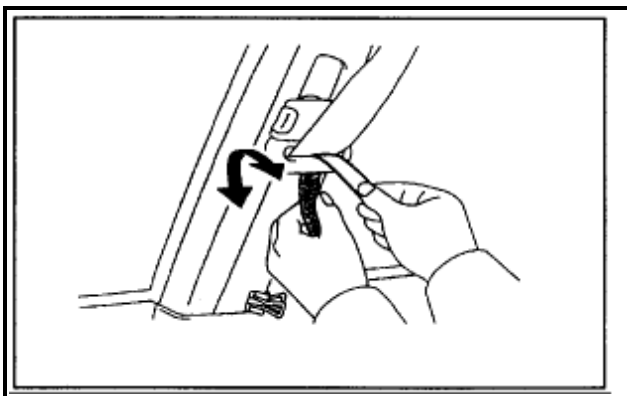
HINT: Preventing the [seat belt](#) from retraction with a clip will make the following work easier.



ZOOM

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B. Put the Velcro tape (in the parts kit) through the hole of the shoulder belt anchor, brush-shaped side to the anchor.



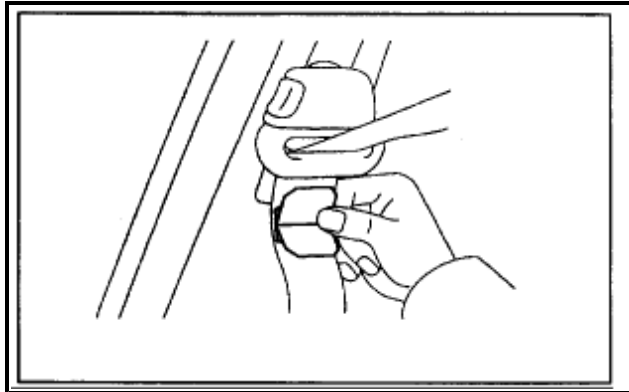
ZOOM

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C. Pull both ends of the Velcro tape with your hand and shave off the dirt on the shoulder belt anchor by moving the Velcro tape several times as shown in the illustration.

NOTE: Remove the dirt completely. Otherwise, the fluorocarbon resin tape may not adhere properly.

2. INSTALL FLUOROCARBON RESIN TAPE

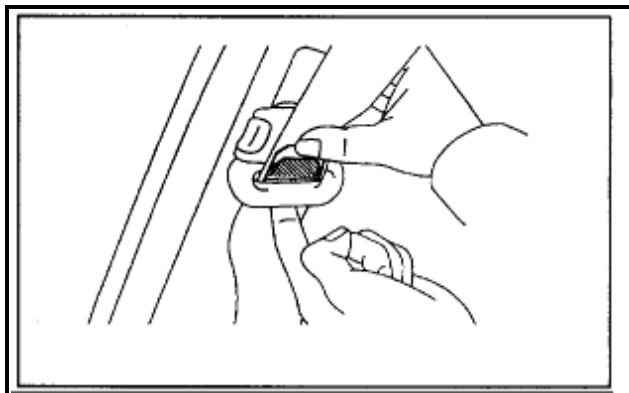


ZOOM

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A. Place the fluorocarbon resin tape onto the [seat belt](#) as shown in the illustration.

NOTE: Before installation of the fluorocarbon resin tape, it is necessary to pre-release the colored film about 5 mm for each side. (Not fully released.)

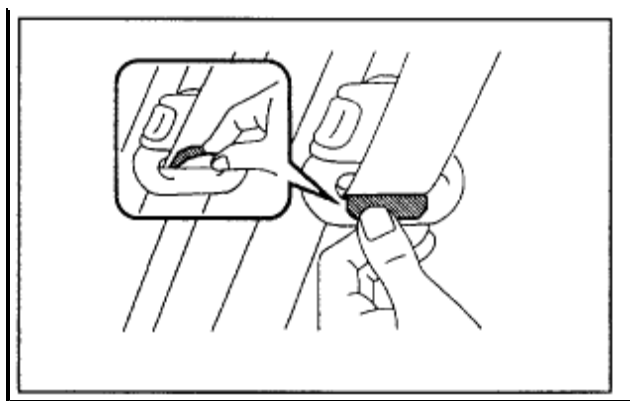


ZOOM

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B. By pulling up the [seat belt](#), put the fluorocarbon resin tape through the hole of the shoulder belt anchor. Match the shoulder belt anchor to the center of the tape.

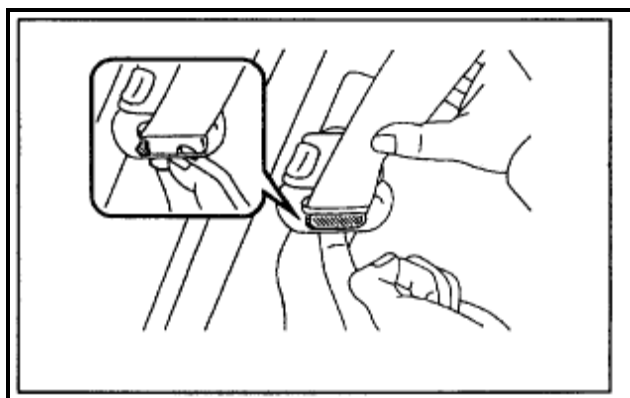




ZOOM

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C. Remove the upper side colored film from the fluorocarbon resin tape, and securely affix the tape to the outside of the shoulder belt anchor.



ZOOM

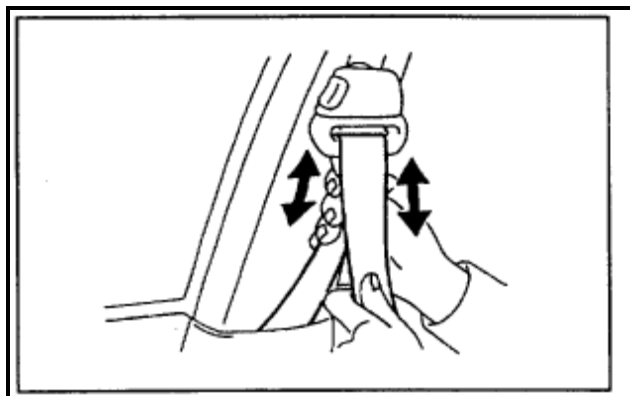
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D. Remove the lower side colored film from the fluorocarbon resin tape, and securely affix the tape to the outside of the shoulder belt anchor.

NOTE:

- ^ Be sure to affix the fluorocarbon tape securely along all edges.
- ^ Pay attention not to make any wrinkles or slack in the fluorocarbon resin tape.

E. Remove the clip.



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F. By pulling the [seat belt](#) up and down several times, as shown in the illustration, securely affix the fluorocarbon resin tape and confirm the smoothness of the belt movement.

NOTE: Affix the fluorocarbon resin tape on the shoulder belt anchor to the other side following the same procedure.

NOTE: If the [seat belt](#) requires cleaning to remove dirt, only use a neutral detergent or lukewarm water to clean. Use the seat belt after it is completely dried, to confirm proper operation.

Tachometer/Speedometer Needle Fluctuation

EL008-99

November 19, 1999

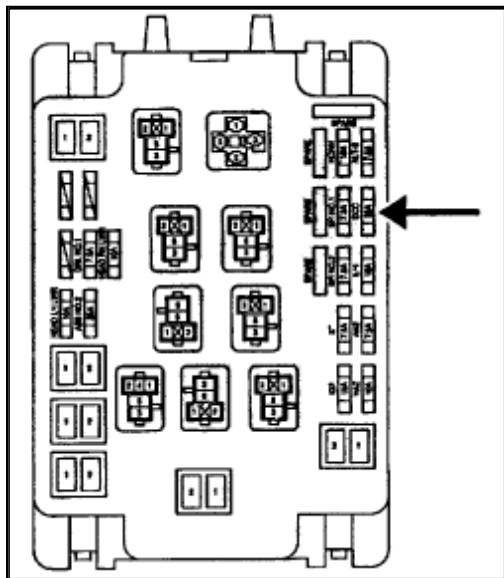
'00 Celica

Introduction

On the 2000 model year Celica the [tachometer](#) and speedometer needles will fluctuate when the ignition switch is turned on with the DCC 25 Amp fuse removed. Initial installation of this fuse should occur during PDS (Pre-Delivery Service). Tachometer/speedometer needle movement is a normal condition for this model with the DCC 25 Amp fuse removed.

Applicable Vehicles: 2000 model year Celica

Inspection Procedure

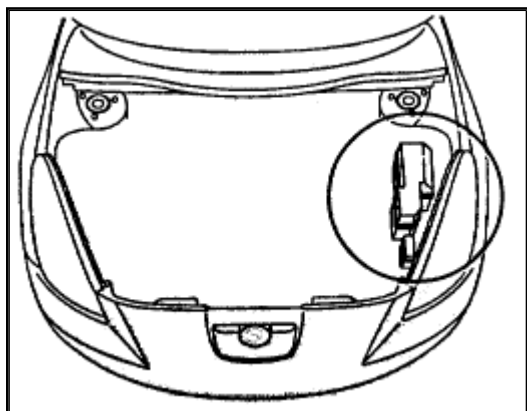


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If a vehicle exhibits this condition, check that the DCC 25 amp fuse is in the Junction Block as shown.

NOTE:



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The DCC 25 Amp fuse is stored in the Engine Room Junction Block in the engine compartment. Refer to TSB PG027-99 for Celica Fuse Installation During POS.

OPCODE	DESCRIPTION	TIME	OPN	T1	T2
—	Not Applicable to Warranty	—	—	—	—

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Sunroof - Noises/Separation/Difficult Operation**BODY**

BO024-00

Title:

SUNSHADE IMPROVEMENTS

Models

'00 Celica

September 1, 2000

Introduction

Several production changes have been implemented to improve the operation of the 2000 model year Celica sunshade.

Applicable Vehicles

^ 2000 model year Celica.

REF. NO.	CONCERN	STARTING VIN (GT)	STARTING VIN (GTS)
1	Rattle Noise With Sunshade in Closed Position	JTDDR32T7Y0001755	JTDDY32T5Y0001420
2	No. 1 Sunshade Separates From No. 2 Sunshade When Opening	JTDDR32T1Y0015781	JTDDY32T1Y0009580
3	High Operating Force When Opening/Closing Sunshade	JTDDR32T8Y0004552	JTDDY38T3Y0003366
4	"Clunk" Noise When Closing Sunshade	Field Fix Only	Field Fix Only

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Production Change Information

REF. NO.	PREVIOUS PART NUMBER	PART NUMBER	PART NAME
4	08231-00801	Same	Interior Noise Kit
1, 2, 3	63303-20030-B0	63303-20031-B0	No. 2 Sunshade (Rear)
2, 3	63229-20020	Same	Rear Sunshade Stopper, RH
2, 3	63229-20030	Same	Rear Sunshade Stopper, LH

ZOOM

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Parts Information

NOTE: The rear sunshade stoppers MUST always be changed if the VIN is before JTDDR32T9Y0004060 (GT) or JTDDY38T3Y0002976 (GTS) when changing the No. 2 Sunshade (rear.)

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
BD0033	Replace No. 2 Sunshade & Rear Sunshade Stoppers	2.7	63303-20030-B0	91	44
BD0034	Add Felt to No. 1 Sunshade	0.7	63306-20080-B0		

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Warranty Information

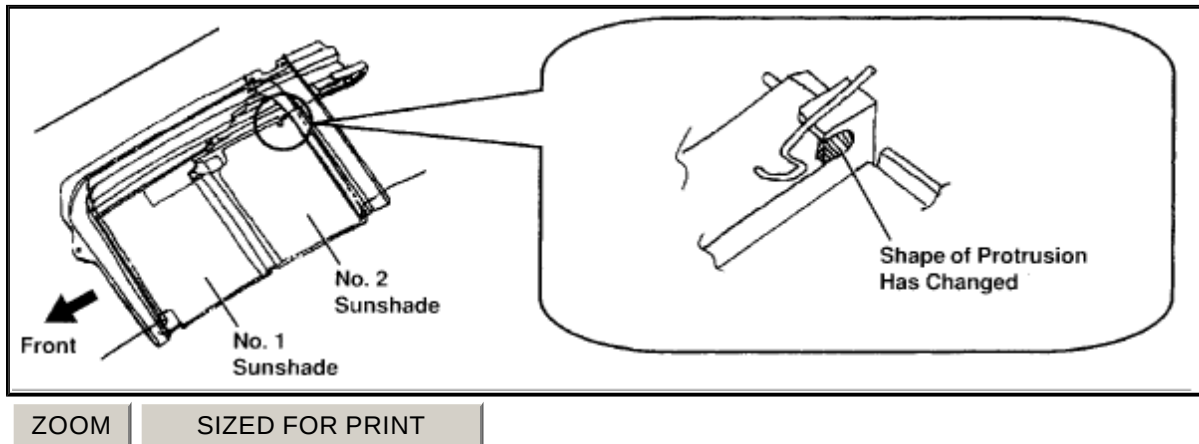
Applicable warranty*:

This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Repair Procedure

1. Rattle Noise With Sunshade in Closed Position

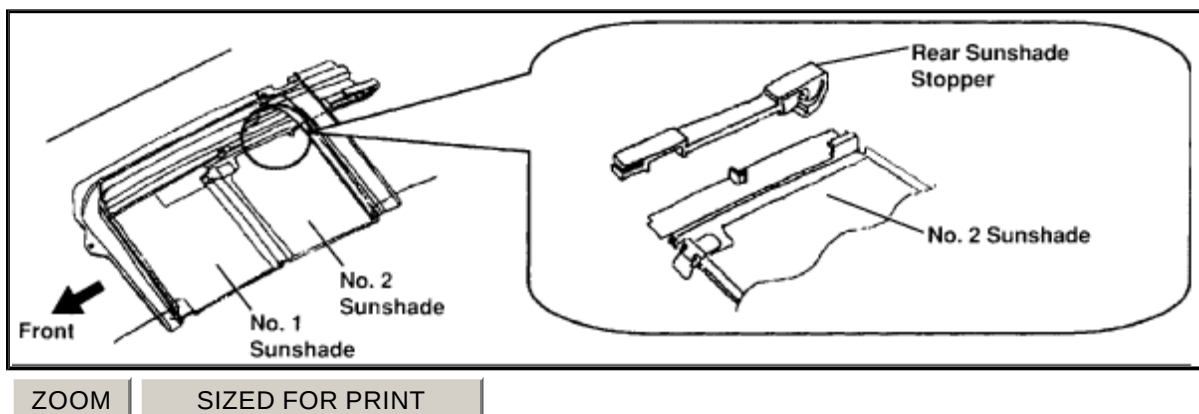


Improvement:

A change was made to the shape of the protrusions located at the left and right rear corners of the No.2 sunshade, as shown in the illustration above.

To eliminate a rattle noise when the sunshade is in a closed position:

- Remove the headliner (please refer to the 2000 Celica Repair Manual, pages BO-88 through BO-90).
- Remove the [sliding roof](#) assembly (please refer the the 2000 Celica Repair Manual, page BO-71).
- Remove the rear sunshade stoppers.
- Replace the No. 2 sunshade.
- Replace the rear sunshade stoppers.
- Reassemble in the reverse order of disassembly.



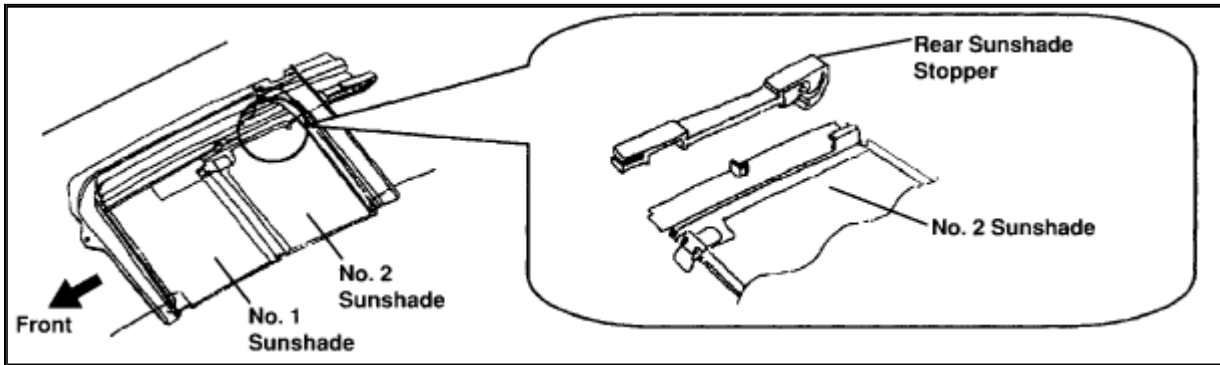
2. No. 1 Sunshade Separates From No.2 Sunshade When Opening

Improvement:

The shapes of the No. 2 sunshade and the rear sunshade stoppers have been changed.

To minimize the possibility of sunshade separation:

- A. Remove the headliner (please refer to the 2000 Celica Repair Manual, pages BO-88 through BO-90).
- B. Remove the [sliding roof](#) assembly (please refer the the 2000 Celica Repair Manual, page BO-71).
- C. Remove the rear sunshade stoppers.
- D. Replace the No. 2 sunshade.
- E. Replace the rear sunshade stoppers.
- F. Reassemble in the reverse order of disassembly.



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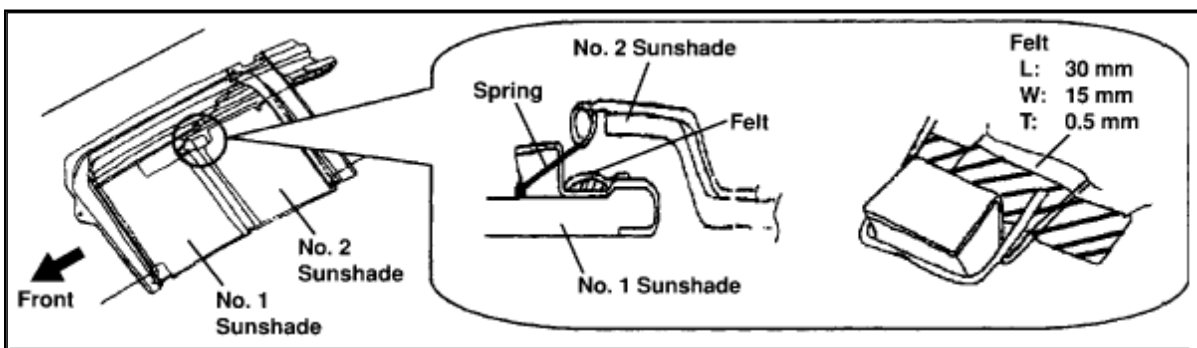
3. High Operating Force When Opening/Closing Sunshade

Improvement:

The shapes of the No. 2 sunshade and the rear sunshade stoppers has been changed to reduce high operating force when opening/closing the sunshade.

To reduce high operating force when opening/closing the sunshade;

- A. Remove the headliner (please refer to the 2000 Celica Repair Manual, pages BO-88 through BO-90).
- B. Remove the [sliding roof](#) assembly (please refer the the 2000 Celica Repair Manual, page BO-71).
- C. Remove the rear sunshade stoppers.
- D. Replace the No. 2 sunshade.
- E. Replace the rear sunshade stoppers.
- F. Reassemble in the reverse order of disassembly.



ZOOM

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4. "Clunk" Noise When Closing Sunshade

Improvement:

Fell was added to the upper surface of the No. 1 sunshade to reduce a "clunk" noise when the No. 2 sunshade is pulled forward by the No. 1 sunshade.

To reduce a "clunk" noise when closing the sunshade:

- A. Remove the sliding roof panel (please refer to TSB No. B0007-00).
- B. Release the spring between the No. 1 and No. 2 sunshades on both sides (please refer to TSB No. B0007-00).

L: 30 mm	W: 15 mm	T: 0.5 mm
----------	----------	-----------

ZOOM

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- C. Cut two pieces of felt in the following dimensions:
- D. Fit felt pieces to the No. 1 sunshade as shown above.
- E. Reassemble in the reverse order of disassembly.

SUNSHADE TRIM REPLACEMENT

BULLETIN:

BO007-00

GROUP:

[Body](#)

DATE:

March 3, 2000

TITLE:

SUNSHADE TRIM REPLACEMENT

MODELS:

'00 MY Celica

Introduction The following information is provided to supplement the Repair Manual procedure for replacing the sunshade trim. The sunshade trim can be replaced without removing the [sliding roof](#) assembly from the vehicle. Please use these instructions, in addition to the instructions in the Repair Manual, for sunshade trim replacement.

Applicable Vehicles

2000 model year Celica.

OPCODE	DESCRIPTION	TIME	OPN	T1	T2
N/A	Not Applicable to Warranty	-	-	-	-

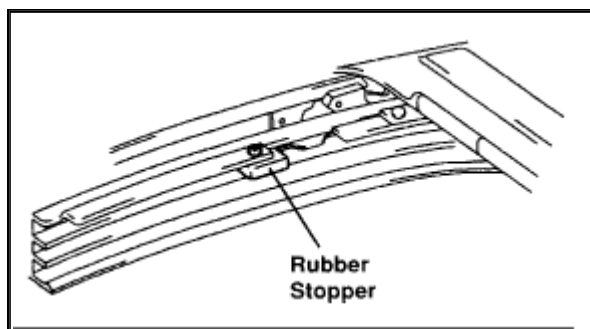
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Warranty Information

Repair Procedure

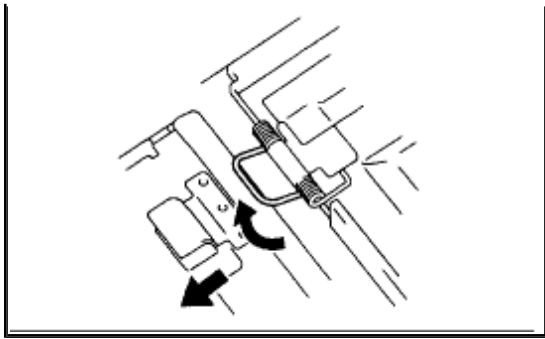
1. Remove the sliding roof panel.
 - A. Remove the 4 screws that secure the sliding roof panel.
 - B. Pull the sliding roof panel upward to remove it.



ZOOM

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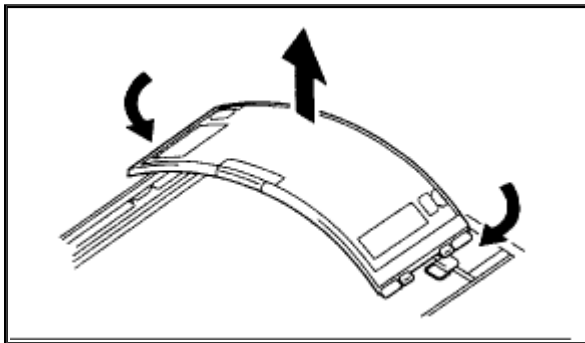
2. Remove the rubber stopper.
 - A. Remove the screw and rubber stopper on both sides.
3. Remove the No.1 and No.2 sunshades.



ZOOM

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A. Release the spring between the No.1 and No.2 sunshades on both sides.



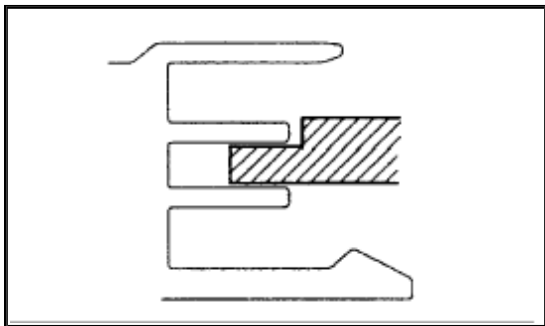
ZOOM

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B. Bend the No.1 sunshade in the center to remove it as shown.

C. Repeat the same procedure for the No.2 sunshade.

NOTE: Bending the sunshade excessively may cause damage.



ZOOM

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HINT: When re-installing the sunshade, insert it into the slider rail as shown.

MODEL	TIRE SIZE	TIRE PRESSURE COLD		WHEEL NUT TORQUE (ft-lbf)
		FRONT (psi)	REAR (psi)	
ECHO	155/80R13 79S	32	32	76
	P175/65R14 81S	32	32	76
Corolla	P175/65R14 81S	30	30	76
	P185/65R14 85S	30	30	76
Celica 2ZZ-GE	P205/55R15 87V	32	32	76
	205/50R16 87V	32	32	76
Celica 1ZZ-FE	195/60R15 88H	29	29	76
	P195/60R15 87H	29	29	76
Camry	P195/70R14 90S	30	30	76
	P205/65R15 92H	32*/29**/32***	32*/29**/32***	76
	P205/60R16 91H	32	32	76
Camry Solara	P205/65R15 92H	29	29	76
	P205/60R16 91H	32	32	76
Avalon	P205/65R15 92H	31	31	76
	P205/60R16 91H	32	32	76

Seat Belt Tongue Plate Stopper - New Parts

BODY

BO011-01

March 23, 2001

Title:

NEW SEAT BELT TONGUE PLATE STOPPER SERVICE PARTS

Models:

All Applicable Models

Introduction

A new service part for the seat belt tongue plate stopper has been introduced. Installation procedures are provided to supplement the Repair Manual.

MODEL	YEAR
Avalon	1995 – 2001
Camry	1983 – 2001
Corolla	1980 – 2001
Camry Solara	1999 – 2001
Sienna (Front Seat Belt Only)	1998 – 2001
RAV4	1997 – 2001
4Runner	1992 – 2001
Land Cruiser	1991 – 2001
Tundra	2000 – 2001
Tacoma	1997 – 2000
ECHO	2000 – 2001
Celica	1980 – 2001
Prius	2001
Tercel	1981 – 1999

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Applicable Vehicles

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME
N/A	73219-02010	Stopper, Tongue Plate (Black)*
N/A	73219-02020	Stopper, Tongue Plate (Gray)*
N/A	73219-02030	Stopper, Tongue Plate (Beige)*

* Use a stopper color that is closest to the seat belt webbing color.

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Parts Information

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
BD0047	Install Seat Belt Tongue Plate Stopper	0.1	73219-020#0	62	12

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Warranty Information

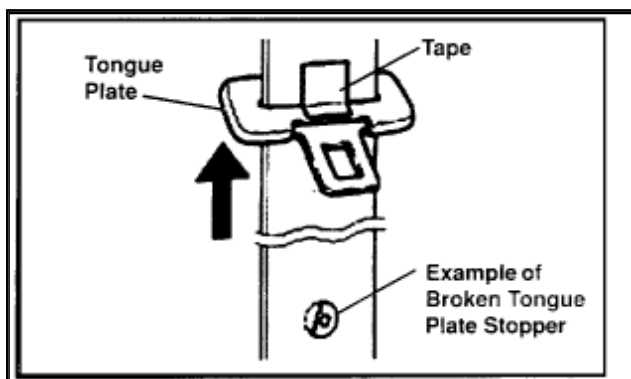
APPLICABLE WARRANTY*:

This repair is covered under the Toyota comprehensive warranty. THIS warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Installation Procedure

1. Preparation



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A. Shift the Tongue Plate to the upper portion of the Tongue Plate Stopper, and temporarily hold it with a clip or tape.

B. Remove any pieces of the original Tongue Plate Stopper in the webbing, with a pair of pliers.

CAUTION: Damaged or weakened seat belts may break in an accident and injure the occupant. The seat belt assembly must be replaced if:

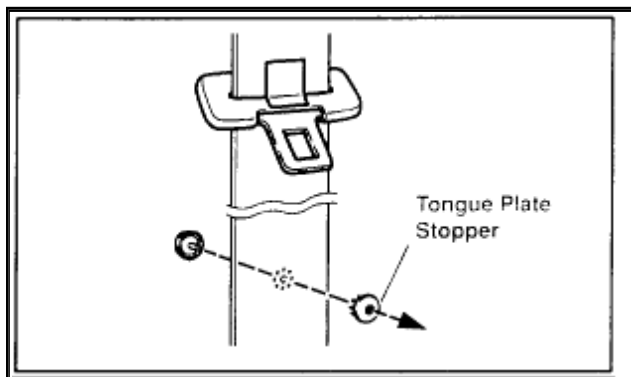
^ The webbing is cut, frayed, worn, or damaged.

^ It has been used in a severe impact.

Inspect the entire length of webbing for damage and replace the assembly if needed. Be careful not to damage the webbing during repair.

2. Install the New Tongue Plate Stopper

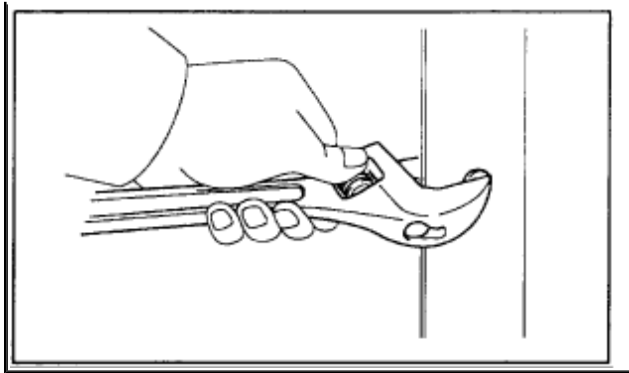
A. Install a new Tongue Plate Stopper in the hole of the webbing.



ZOOM

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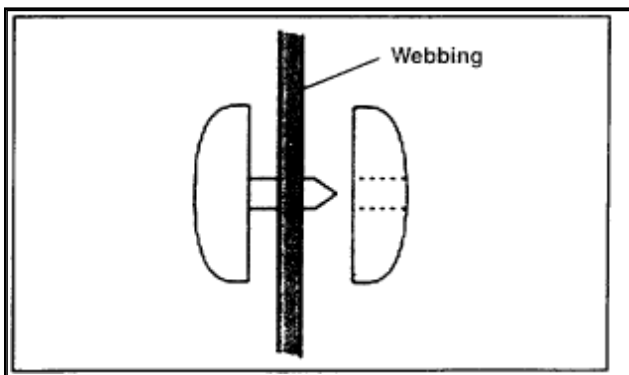
NOTE: Be aware of the installation direction of the Tongue Plate Stopper as shown in the illustration.



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B. Pinch the Tongue Plate Stopper into the webbing using an adjustable wrench, and turn and push the adjustment screw by hand.

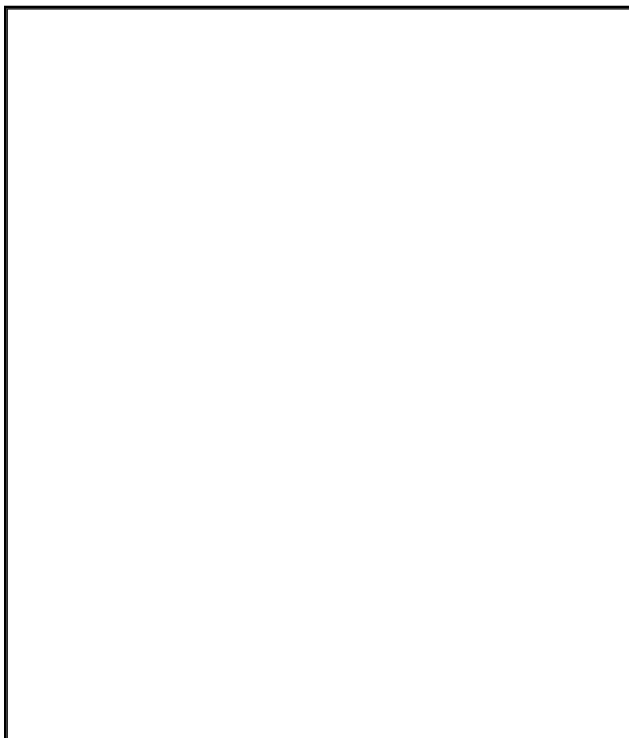


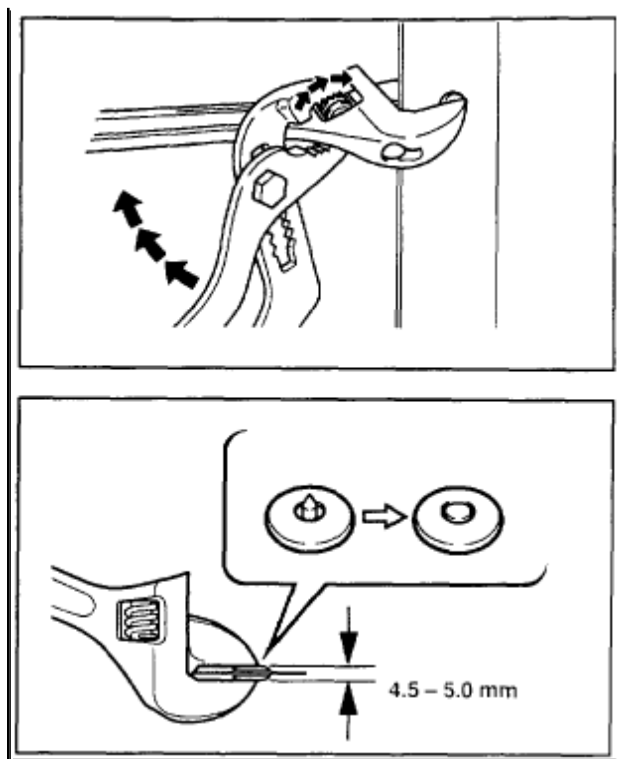
ZOOM

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HINT: Press the adjustment screw in order to position the male and female parts of the Tongue Plate Stopper parallel to each other, as shown in illustration.

CAUTION: DO NOT use pliers. They may damage the webbing.

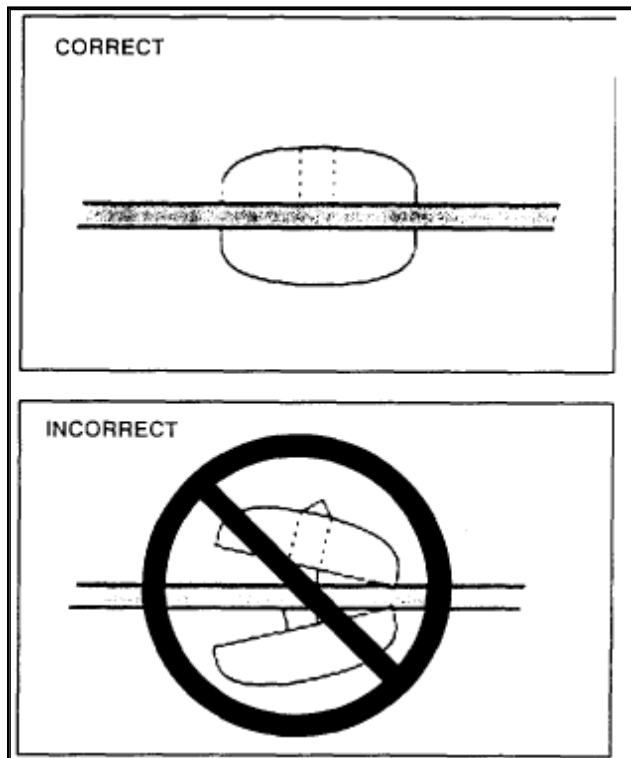




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C. When the adjustment screw for the adjustable wrench can't be turned by hand, tighten the adjustment screw using a pair of adjustable joint pliers until the space between jaws of the adjustable wrench is 4.5 - 5.0 mm. (See illustrations.)



ZOOM

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D. Check to be sure that the male pin of the Tongue Plate Stopper has become deformed evenly in the hole of the female part and is firmly held to the belt webbing. (See illustrations.)

Valve Adjustment - Procedure and Tool Update

SPECIAL SERVICE TOOLS

SS002-00

Title:

[VALVE CLEARANCE](#) ADJUSTING COMPRESSOR SWING ARM RETROFIT

Models:

'00 Celica GTS

September 15, 2000

Introduction

As a result of tolerance stack, some of the subject [Valve Clearance](#) Adjusting Compressor SSTs, P/N 09248-07010-01, will not fully compress the valve follower on the 2000 Celica GTS with 2ZZ-GE engine, making it difficult or impossible to remove the valve adjusting shim. To correct this condition, a new swing arm will be distributed to all Toyota dealerships. The swing arms are zinc-plated for easy identification.

The purpose of this TSB is to provide instructions for field upgrade of this SST and to provide detailed instructions for its use.

Applicable Vehicles

^ 2000 model year Celica GTS with 2ZZ-GE engine.

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME
N/A	09248-07010-ARM	Valve Clearance Adjusting Compressor Swing Arm

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Parts Information

TOOLS & MATERIALS	QUANTITY
2 mm Hex Wrench (included with Valve Clearance Adjusting Compressor Swing Arm)	1

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Required Tools & Material

Part Upgrade Description

SWING ARM

A revised design swing arm will replace the existing swing arm on the [Valve Clearance](#) Adjusting Compressor. This new swing arm is approximately 0.2" longer than the original and is zinc-plated for identification purposes.

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
N/A	Not Applicable to Toyota Warranty*	-	-	-	-

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Warranty Information

NOTE: The [Valve Clearance](#) Adjusting Compressor upgraded swing arm will be distributed to all Toyota dealers by OTC.

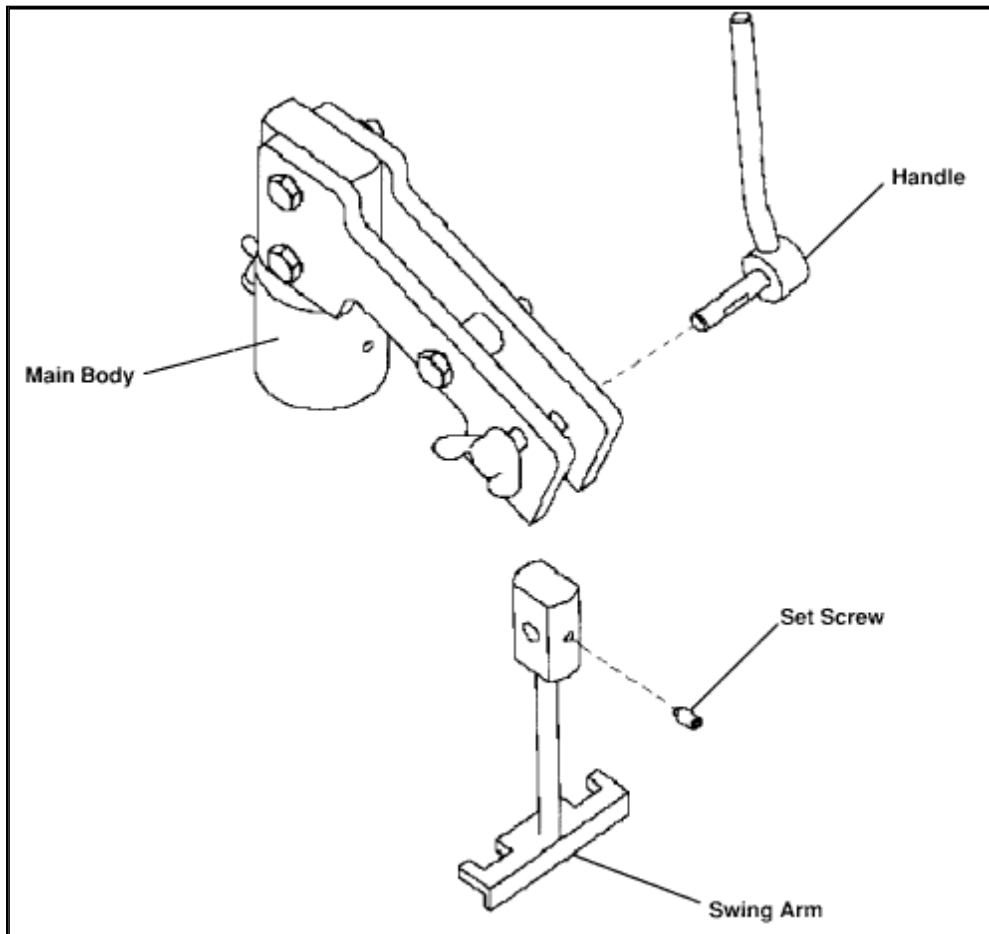
Swing Arm

A revised design swing arm will replace the existing swing arm on the [Valve Clearance](#) Adjusting Compressor. This new swing arm is approximately 0.2" longer than the original and is zinc-plated for identification purposes.

***Applicable Warranty:**

With the LIFETIME MARATHON(R) WARRANTY, all SPX OTC products and parts are warranted against defects in materials and workmanship for the life of the product or part. For service on this or any other Toyota SST, call 1(800) 933-8335.

Retrofit Procedure



ZOOM

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1. Remove the 2 mm set screw from the swing arm using the Hex wrench supplied.
2. Remove the handle and the old swing arm; discard the old swing arm.
3. Install the new swing arm (P/N 09248-07010-ARM) and handle, making sure that the flat portion of the handle is aligned with the set screw prior to tightening.
4. Tighten the set screw using the Hex wrench supplied.

Instructions for SST Use (2ZZ-GE)

Corrections have been made to the 2000 MY Celica Repair Manual to provide the technician with detailed instructions on how to use this SST. CHANGES INDICATED BY ARROWS.

NOTE: For complete [valve clearance](#) adjustment instructions, please refer to TSB EG008-00, REPAIR MANUAL CORRECTION: VALVE CLEARANCE ADJUSTMENT.

PUBLICATION	NUMBER	PAGE(S)
2000 Model Year Celica	RM744U2	EM-6, EM-7, EM12

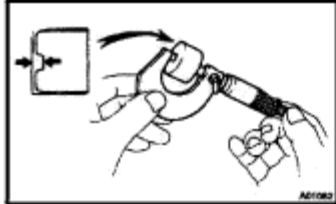
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Amended pages to follow as shown.

EM-6

ENGINE MECHANICAL - VALVE CLEARANCE



(g) Determine the size of the replaced valve lifter according to these Formula or Charts:

- Using a micrometer, measure the thickness of the removed lifter.
- Calculate the thickness of a new lifter so the valve clearance comes within the specified value.

T..... Thickness of used lifter
A..... Measured valve clearance
N..... Thickness of new lifter
Intake: $N = T + (A - 0.20 \text{ mm (0.008 in.)})$
Exhaust: $N = T + (A - 0.30 \text{ mm (0.012 in.)})$

- Select a new lifter with a thickness as close as possible to the calculated values.

HINT:
Lifter are available in 35 sizes in increments of 0.020 mm (0.0008 in.), from 5.060 mm (0.1992 in.) to 5.740 mm (0.2260 in.).

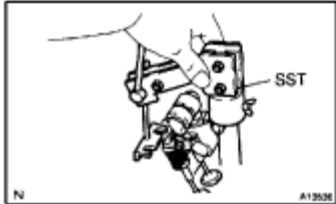


5. 2ZZ-GE:
ADJUST VALVE CLEARANCE

(a) Set the SST.

(1) Turn the crankshaft so that the related rocker arm, where the valve clearance is adjusted, is fully pushed down.

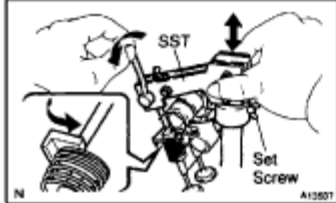
NOTICE:
Remove the spark plug and take off the compression.



(2) Insert SST into the plug tube.
SST 09248-77010 (09248-07010)

NOTICE:

- SST cannot be inserted unless the set screw is loosened.
- Make sure that the camshaft is in the same condition as step (1).



(3) Operate the lever so that SST's seat surface comes to contact with the valve retainer and lock them with the set screw.

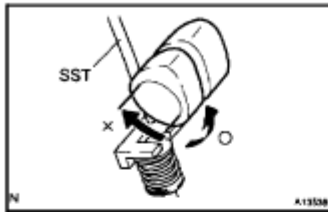
NOTICE:

- Clearance between the valve retainer and SST's seat surface is not allowed.
- Care should be taken not to make clearance when inserting SST, since a presence of clearance may unlock the keeper.

(4) Lock the set screw on the plug tube side of SST.

ZOOM

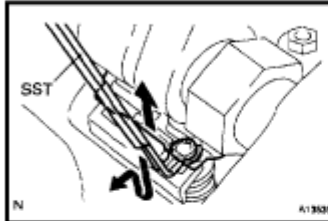
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- (5) Rotate the crankshaft so that the camshaft is positioned as shown in the illustration.

NOTICE:

- Pay attention to the direction of the rotation to prevent the nose of the camshaft from interfering with the SST's shaft.
- Do not rotate the crankshaft excessively.



- (b) Remove the adjusting shim.

Lift the rocker arm to make a room and remove the adjusting shim using SST.

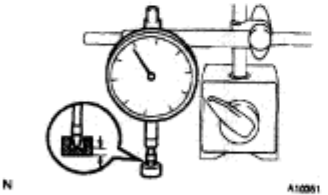
SST 09248-77010 (09248-07020)

NOTICE:

Do not remove SST in the condition that the adjusting shim is removed.

HINT:

- Setting SST from the right above makes the removal easy.
- If there is not enough room, reset SST.



- (1) Determine the size of the replaced shim according to these Formula or Charts:

- Using dial indicator, measure the thickness of the removed shim.
- Calculate the thickness of a new shim so the valve clearance comes within the specified value.

T..... Thickness of used shim

A..... Measured valve clearance

N..... Thickness of new shim

Intake: $N = T + (A - 0.13 \text{ mm (0.0051 in.)}) \times 1.5$

Exhaust: $N = T + (A - 0.27 \text{ mm (0.0106 in.)}) \times 1.5$

- Select a new shim with a thickness as close as possible to the calculated values.

HINT:

Shim are available in 41 size in increments of 0.020 mm (0.0008 in.), from 2.000 mm (0.0787 in.) to 2.800 mm (0.1102 in.).

ZOOM

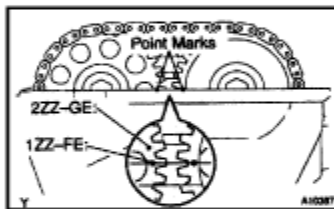
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EM-12

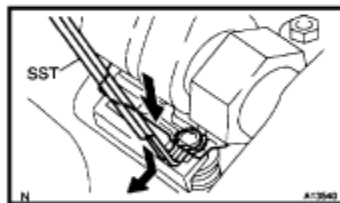
ENGINE MECHANICAL - VALVE CLEARANCE

6. 1ZZ-FE:**REINSTALL CAMSHAFT**

- (a) Reinstall the valve lifters (See page EM-62).
- (b) Align the crankshaft pulley groove with the timing mark "0" of the timing chain cover.
- (c) Hold the timing chain, and place the intake camshaft and timing sprocket assembly.
- (d) Align the matchmarks on the timing chain and camshaft timing sprocket.
- (e) Reinstall the camshaft and timing sprocket assemblies (See page EM-66).



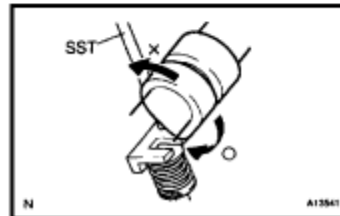
- (f) Check that the point marks of the camshaft timing sprockets are in straight line on the timing chain cover surface as shown in the illustration.
- (g) Check that the matchmarks are on the timing chain and camshaft timing sprockets.
- (h) Install the chain tensioner (See page EM-26).
- (i) Recheck the valve clearance (See procedure in step 3).
- (j) Check the valve timing (See page EM-26).

**7. 2ZZ-GE:****REINSTALL ADJUSTING SHIM**

- (a) Lift the rocker arm to make a room and use SST, install the adjusting shim.

HINT:

- Setting SST from the right above makes the removal easy.
- To remove SST from the adjusting shim, it is advisable to push down the rocker arm.



- (b) Turn the crankshaft so that the related rocker arm, where the valve clearance is adjusted, is fully pushed down.

NOTICE:

- Pay attention to the direction of the rotation to prevent the nose of the camshaft from interfering with the SST's shaft.
 - Do not rotate the crankshaft excessively.
- (c) After loosening the 2 set screws of SST, remove SST itself.
- SST 09248-77010 (09248-07010)

ZOOM

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Valve Clearance - Adjustment Revision

ENGINE

EG008-00

Title:

REPAIR MANUAL CORRECTION: [VALVE CLEARANCE](#) ADJUSTMENT

Model:

'00 Celica GTS

September 15, 2000

Introduction

Repair Manual corrections have been made to the [Valve Clearance](#) Adjustment procedures for the 2000 model year Celica GTS with the 2ZZ-GE engine to allow effective use of the Special Service Tool.

PUBLICATION NUMBER	PUBLICATION NAME	AFFECTED PAGES
RM744U2	2000 Celica Repair Manual – Vol. 2	EM-4 through EM-7, EM-9 through EM12-1

ZOOM

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For more information on replacement of the SST Swing Arm refer to TSB SS002-00, [Valve Clearance](#) Adjusting Compressor Swing Arm Retrofit '00 Celica GTS.

Applicable Vehicles

^ 2000 model year Celica GTS with 2ZZ-GE engine.

TOOLS & MATERIALS	PART NUMBER	QUANTITY
Valve Clearance Adjusting Compressor	SST 09248-77010-01	1

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Required Tools & Material

OP CODE	DESCRIPTION	TIME	OPN	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

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Warranty Information

EM-4

ENGINE MECHANICAL - VALVE CLEARANCE

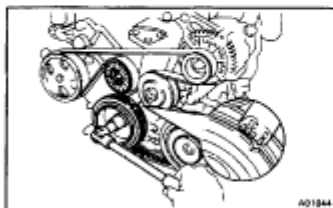
VALVE CLEARANCE ADJUSTMENT

EN1004-1

HINT:

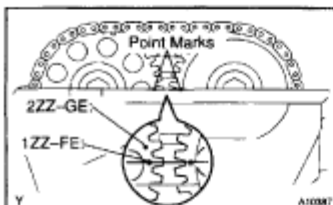
Inspect and adjust the valve clearance when the engine is cold.

1. **REMOVE CYLINDER HEAD COVER**
(See page EM-19)



2. **SET NO. 1 CYLINDER TO TDC/COMPRESSION**

- (a) Turn the crankshaft pulley, and align its groove with the timing mark "0" of the timing chain cover.



- (b) Check that the point marks of the camshaft timing sprockets are in straight line on the timing chain cover surface as shown in the illustration.

If not, turn the crankshaft 1 revolution (360°) and align the marks as above.



3. **INSPECT VALVE CLEARANCE**

- (a) Check only the valves indicated.

- Using a feeler gauge, measure the clearance between the valve lifter and camshaft.
- Record the out-of-specification valve clearance measurements. They will be used later to determine the required replacement of adjusting shim.

Valve clearance (Cold):

1ZZ-FE:

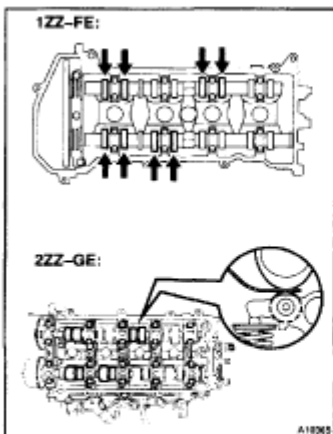
Intake 0.15 – 0.25 mm (0.006 – 0.010 in.)

Exhaust 0.25 – 0.35 mm (0.010 – 0.014 in.)

2ZZ-GE:

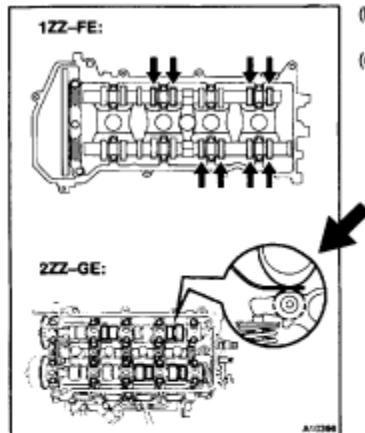
Intake 0.10 – 0.16 mm (0.0039 – 0.0063 in.)

Exhaust 0.24 – 0.30 mm (0.0094 – 0.0118 in.)

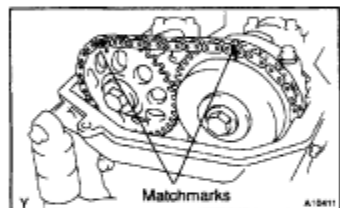


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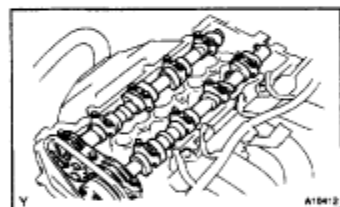
- (b) Turn the crankshaft 1 revolution (360°) and align the mark as above (See procedure in step 2).
- (c) Check only the valves indicated as shown. Measure the valve clearance (See procedure in step (a)).



4. 1ZZ-FE:

ADJUST VALVE CLEARANCE

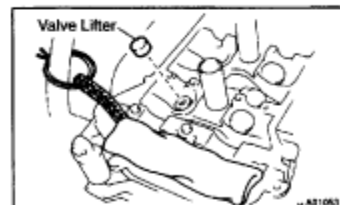
- (a) Set the No. 1 cylinder to the TDC/compression (See procedure in step 2).
- (b) Place matchmarks on the timing chain and camshaft timing sprockets.
- (c) Remove the 2 bolts and chain tensioner.



- (d) Remove the camshaft and timing sprocket assemblies (See page EM-43).
- (1) 19 camshaft bearing cap bolts
 - (2) 9 camshaft bearing caps (No. 1 & No. 3)
 - (3) Exhaust camshaft and timing sprocket assembly
 - (4) Intake camshaft and timing sprocket assembly

HINT:

When holding the timing chain, disconnect the timing chain from the camshaft timing sprocket.



- (e) Tie the timing chain with a string as shown in the illustration.

NOTICE:

- Be careful not to drop anything inside the timing chain cover.
- Do not allow the chain to come into contact with water or dust.

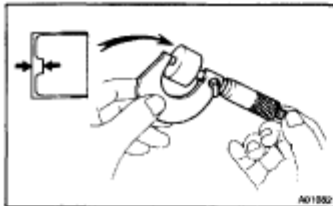
- (f) Remove the valve lifters.

ZOOM

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EM-6

ENGINE MECHANICAL -- VALVE CLEARANCE



A01352

(g) Determine the size of the replaced valve lifter according to these Formula or Charts:

- Using a micrometer, measure the thickness of the removed lifter.
- Calculate the thickness of a new lifter so the valve clearance comes within the specified value.

T..... Thickness of used lifter

A..... Measured valve clearance

N..... Thickness of new lifter

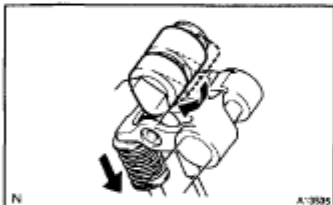
Intake: $N = T + (A - 0.20 \text{ mm (0.008 in.)})$

Exhaust: $N = T + (A - 0.30 \text{ mm (0.012 in.)})$

- Select a new lifter with a thickness as close as possible to the calculated values.

HINT:

Lifter are available in 35 sizes in increments of 0.020 mm (0.0008 in.), from 5.060 mm (0.1992 in.) to 5.740 mm (0.2260 in.).



A13535

5. 2ZZ-GE: ADJUST VALVE CLEARANCE

(a) Set the SST.

- (1) Turn the crankshaft so that the related rocker arm, where the valve clearance is adjusted, is fully pushed down.

NOTICE:

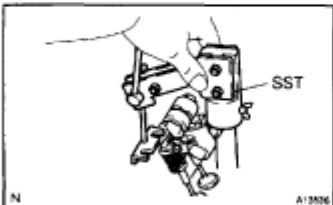
Remove the spark plug and take off the compression.

- (2) Insert SST into the plug tube.

SST 09248-77010 (09248-07010)

NOTICE:

- SST cannot be inserted unless the set screw is loosened.
- Make sure that the camshaft is in the same condition as step (1).



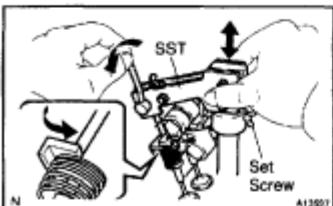
A13536

- (3) Operate the lever so that SST's seat surface comes to contact with the valve retainer and lock them with the set screw.

NOTICE:

- Clearance between the valve retainer and SST's seat surface is not allowed.
- Care should be taken not to make clearance when inserting SST, since a presence of clearance may unlock the keeper.

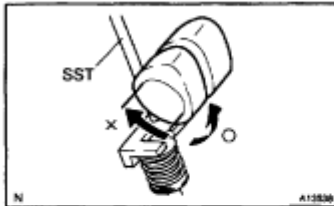
- (4) Lock the set screw on the plug tube side of SST.



A13537

ZOOM

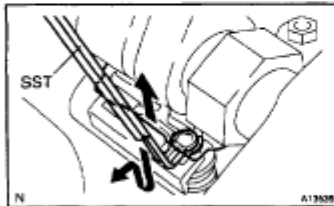
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- (5) Rotate the crankshaft so that the camshaft is positioned as shown in the illustration.

NOTICE:

- Pay attention to the direction of the rotation to prevent the nose of the camshaft from interfering with the SST's shaft.
- Do not rotate the crankshaft excessively.



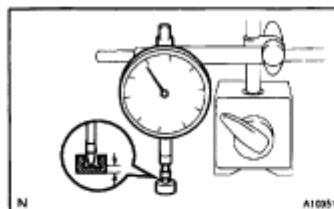
- (b) Remove the adjusting shim.
Lift the rocker arm to make a room and remove the adjusting shim using SST.
SST 09248-77010 (09248-07020)

NOTICE:

Do not remove SST in the condition that the adjusting shim is removed.

HINT:

- Setting SST from the right above makes the removal easy.
- If there is not enough room, reset SST.



- (1) Determine the size of the replaced shim according to these Formula or Charts:

- Using dial indicator, measure the thickness of the removed shim.
- Calculate the thickness of a new shim so the valve clearance comes within the specified value.

T..... Thickness of used shim

A..... Measured valve clearance

N..... Thickness of new shim

Intake: $N = T + (A - 0.13 \text{ mm (0.0051 in.)}) \times 1.5$

Exhaust: $N = T + (A - 0.27 \text{ mm (0.0106 in.)}) \times 1.5$

- Select a new shim with a thickness as close as possible to the calculated values.

HINT:

Shim are available in 41 size in increments of 0.020 mm (0.0008 in.), from 2.000 mm (0.0787 in.) to 2.800 mm (0.1102 in.).

ZOOM

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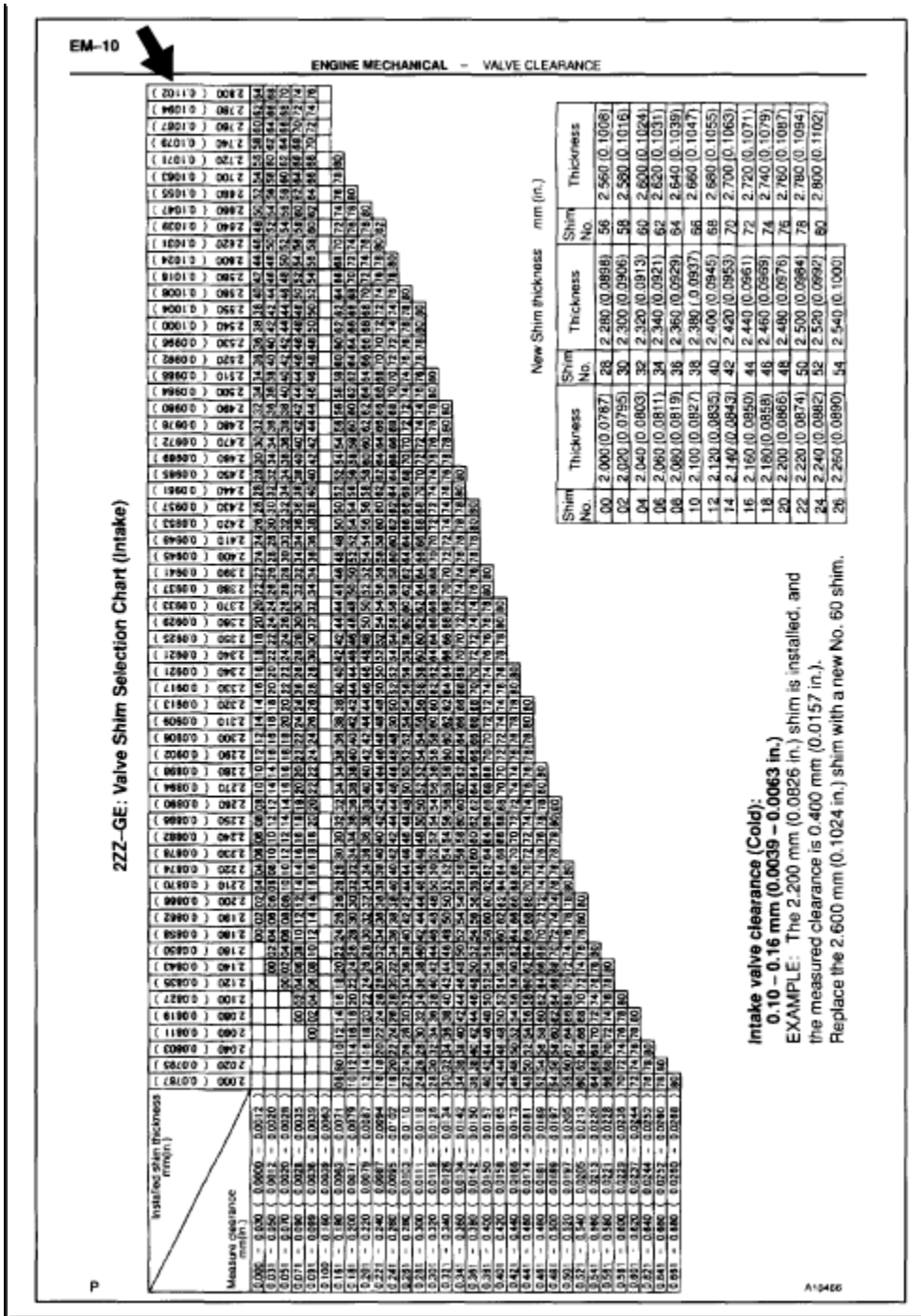
Series and model designation (see p. 3)	Nominal pressure (bar)	Nominal diameter (mm (in.))												New filter thickness (mm (in.))	
		15	20	25	32	40	50	65	80	100	125	160	200	150	175
150000 D 1500	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
150000 D 200	20	15	20	20	20	20	20	20	20	20	20	20	20	20	20
150000 D 250	25	15	20	25	25	25	25	25	25	25	25	25	25	25	25
150000 D 320	32	15	20	25	32	32	32	32	32	32	32	32	32	32	32
150000 D 400	40	15	20	25	32	40	40	40	40	40	40	40	40	40	40
150000 D 500	50	15	20	25	32	40	50	50	50	50	50	50	50	50	50
150000 D 650	65	15	20	25	32	40	50	65	65	65	65	65	65	65	65
150000 D 800	80	15	20	25	32	40	50	65	80	80	80	80	80	80	80
150000 D 1000	100	15	20	25	32	40	50	65	80	100	100	100	100	100	100
150000 D 1250	125	15	20	25	32	40	50	65	80	100	125	125	125	125	125
150000 D 1600	160	15	20	25	32	40	50	65	80	100	125	160	160	160	160
150000 D 2000	200	15	20	25	32	40	50	65	80	100	125	160	200	200	200
150000 D 2500	250	15	20	25	32	40	50	65	80	100	125	160	250	250	250
150000 D 3200	320	15	20	25	32	40	50	65	80	100	125	160	320	320	320
150000 D 4000	400	15	20	25	32	40	50	65	80	100	125	160	400	400	400
150000 D 5000	500	15	20	25	32	40	50	65	80	100	125	160	500	500	500
150000 D 6500	650	15	20	25	32	40	50	65	80	100	125	160	650	650	650
150000 D 8000	800	15	20	25	32	40	50	65	80	100	125	160	800	800	800
150000 D 10000	1000	15	20	25	32	40	50	65	80	100	125	160	1000	1000	1000
150000 D 12500	1250	15	20	25	32	40	50	65	80	100	125	160	1250	1250	1250
150000 D 16000	1600	15	20	25	32	40	50	65	80	100	125	160	1600	1600	1600
150000 D 20000	2000	15	20	25	32	40	50	65	80	100	125	160	2000	2000	2000
150000 D 25000	2500	15	20	25	32	40	50	65	80	100	125	160	2500	2500	2500
150000 D 32000	3200	15	20	25	32	40	50	65	80	100	125	160	3200	3200	3200
150000 D 40000	4000	15	20	25	32	40	50	65	80	100	125	160	4000	4000	4000
150000 D 50000	5000	15	20	25	32	40	50	65	80	100	125	160	5000	5000	5000
150000 D 65000	6500	15	20	25	32	40	50	65	80	100	125	160	6500	6500	6500
150000 D 80000	8000	15	20	25	32	40	50	65	80	100	125	160	8000	8000	8000

Exhaust valve clearance (Cold):

0.25 - 0.35 mm (0.010 - 0.014 in.)
EXAMPLE: The 5.340 mm (0.2102 in.) lifter is installed, and the measured clearance is 0.440 mm (0.0173 in.).
 Replace the 5.340 mm (0.2102 in.) lifter with a new No. 48 lifter.

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2ZZ-GE: Valve Shim Selection Chart (Exhaust)

[illegible]

Exhaust valve clearance (Cold):

Exhaust Valve clearance (Cold):
0.24 – 0.30 mm (0.0094 – 0.0118 in.)

EXAMPLE: The 2.200 mm (0.0862 in.) shim is installed, and the measured clearance is 0.500 mm (0.0197 in.).

Replace the 2.540 mm (0.1000 in.) shim with a new No. 54 shim.

A10457

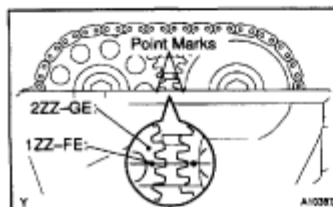
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EM-12

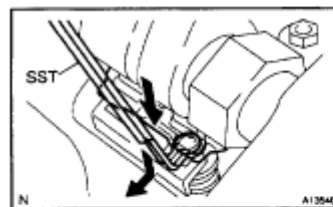
ENGINE MECHANICAL — VALVE CLEARANCE

6. 1ZZ-FE:**REINSTALL CAMSHAFT**

- (a) Reinstall the valve lifters (See page EM-62).
- (b) Align the crankshaft pulley groove with the timing mark "0" of the timing chain cover.
- (c) Hold the timing chain, and place the intake camshaft and timing sprocket assembly.
- (d) Align the matchmarks on the timing chain and camshaft timing sprocket.
- (e) Reinstall the camshaft and timing sprocket assemblies (See page EM-66).



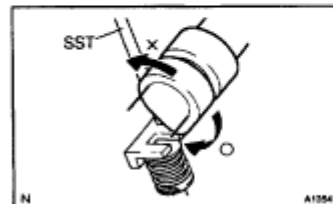
- (f) Check that the point marks of the camshaft timing sprockets are in straight line on the timing chain cover surface as shown in the illustration.
- (g) Check that the matchmarks are on the timing chain and camshaft timing sprockets.
- (h) Install the chain tensioner (See page EM-26).
- (i) Recheck the valve clearance (See procedure in step 3).
- (j) Check the valve timing (See page EM-26).

**7. 2ZZ-GE:****REINSTALL ADJUSTING SHIM**

- (a) Lift the rocker arm to make a room and use SST, install the adjusting shim.

HINT:

- Setting SST from the right above makes the removal easy.
- To remove SST from the adjusting shim, it is advisable to push down the rocker arm.



- (b) Turn the crankshaft so that the related rocker arm, where the valve clearance is adjusted, is fully pushed down.

NOTICE:

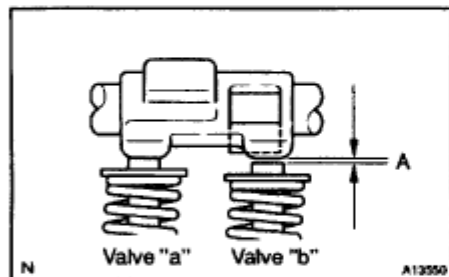
- Pay attention to the direction of the rotation to prevent the nose of the camshaft from interfering with the SST's shaft.
 - Do not rotate the crankshaft excessively.
- (c) After loosening the 2 set screws of SST, remove SST itself.

SST 09248-77010 (09248-07010)

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8. **REINSTALL CYLINDER HEAD COVER**
(See page EM-26)
9. **IF VALVE OR ROCKER ARM IS REPLACED, REPLACE SHIM AS FOLLOWS**
- (a) Install a standard shim of 2.400 mm (0.0945 in.) thickness at low temperature and install the rocker arm.



- (b) While pressing the rocker arm, measure the clearance "A" of valve "b" in the condition that a clearance of the other valve is 0mm (0 in.).
- (c) To adjust the valve height, replace a shim of valve "b" with a shim that has thickness of t_1 .
 $t_1 = A + 2.400$
- (d) After adjusting the valve height, adjust the clearance as described from step 3.

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Wheel Balance Adjustment ProcedureBulletin Number:
SU003-99Date:
September 24, 1999Title:
[WHEEL](#) BALANCE ADJUSTMENT PROCEDUREModels:
'00 Celica**Introduction:**

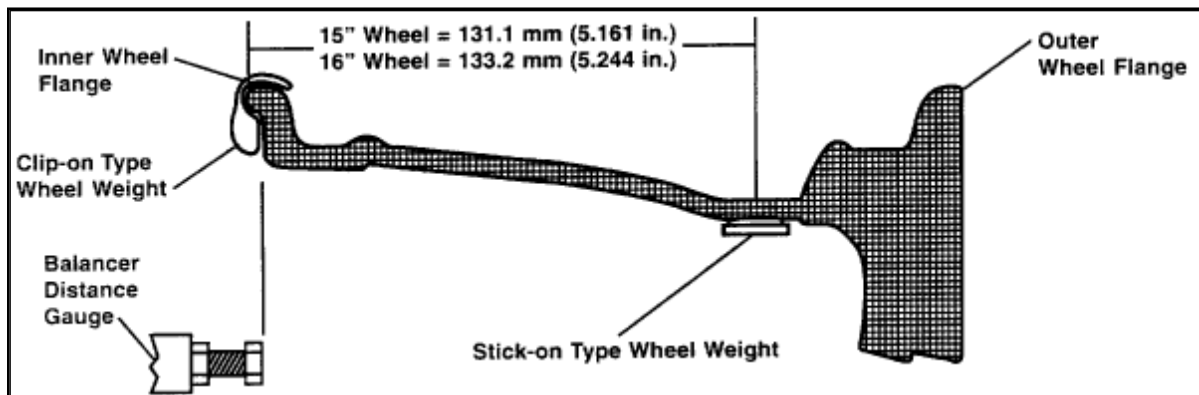
Celica alloy wheels have a decorative outer [wheel](#) flange which does not accept standard Toyota clip-on type wheel weights. To properly adjust wheel balance, stick-on type wheel weights must be used. Some wheel balancers do not have a "hidden weight" function which is used to measure the tire/wheel assembly imbalance in the location of the stick-on type wheel weights. The procedure included in this bulletin can be used to balance Celica tire/wheel assemblies on wheel balancers that do not have a "hidden weight" function.

Applicable Vehicles:
2000 Model Year Celica.

OPCODE	DESCRIPTION	TIME	OPN	T1	T2
-	Not Applicable to Warranty	-	-	-	-

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Warranty Information**Repair Procedure:**

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1. Mount tire/[wheel](#) assembly on wheel balancer with the outside or decorative wheel flange opposite the wheel balancer arbor.

ACTUAL WHEEL SIZE	REVISED WHEEL SIZE
15" x 6.5" JJ	15" x 4.5"
16" x 6.5" JJ	16" x 4.5"

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2. Input the revised [wheel](#) dimensions as shown:
3. Select "[Wheel](#) Flange" as the wheel weight location (clip-on type wheel weight).
4. Set the [Wheel](#) Distance (distance from inner wheel flange to a reference point on the wheel balancer) as normal.
5. Measure the tire/[wheel](#) assembly imbalance.
6. Choose the Conversion Weight for the stick-on type wheel weight using the Conversion Table below. The Conversion Weight is listed next to the Imbalance Weight.

HINT: The stick-on weight conversion is only required for the outside wheel weight location.

7. Apply the stick-on type wheel weight in the position indicated by the [wheel](#) balancer.

HINT: Make sure the [wheel](#) is clean and dry prior to applying stick-on type wheel weight.

8. Tap on the appropriate clip-on type wheel weight on the inner [wheel](#) flange in the location indicated by the wheel balancer.
9. Re-measure the tire/[wheel](#) assembly imbalance to ensure tire/wheel assembly is balanced.

IMBALANCE WEIGHT	CONVERSION WEIGHT	IMBALANCE WEIGHT	CONVERSION WEIGHT	IMBALANCE WEIGHT	CONVERSION WEIGHT
1	0	31	35	61	70
2	2.5	32	37.5	62	70
3	2.5	33	37.5	63	75
4	5	34	40	64	75
5	5	35	40	65	75
6	7.5	36	42.5	66	75
7	7.5	37	42.5	67	80
8	10	38	45	68	80
9	10	39	45	69	80
10	12.5	40	47.5	70	80
11	12.5	41	47.5	71	80
12	15	42	47.5	72	80
13	15	43	50	73	80
14	17.5	44	50	74	90
15	17.5	45	52.5	75	90
16	20	46	52.5	76	90
17	20	47	55	77	90
18	20	48	55	78	90
19	22.5	49	57.5	79	90
20	22.5	50	60	80	90
21	25	51	60	81	90
22	25	52	60	82	100
23	27.5	53	60	83	100
24	27.5	54	60	84	100
25	30	55	65	85	100
26	30	56	65	86	100
27	32.5	57	65	87	100
28	32.5	58	70	88	100
29	32.5	59	70	89	100
30	35	60	70	90	100

Conversion Table