



**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.



Repair Procedure

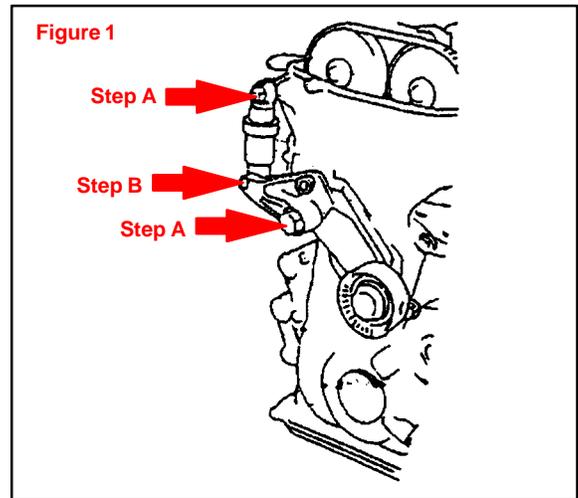
1. Verify that the noise emanates from the Accessory Drive Belt/Belt Tensioner Assembly. These noises will generally manifest as a rattling or a squealing.
2. Inspect the Accessory Drive Belt and Belt Tensioner Assembly. If there is any roughness to either of the Belt Tensioner Assembly bearings or any sign of damage, scoring, or glazing on the Accessory Drive Belt or the Belt Tensioner Assembly pulley wheel, replace both the complete Belt Tensioner Assembly and the Accessory Drive Belt. If there is NO sign of damage, glazing or wear on the Belt Tensioner Assembly pulley wheel or the Accessory Drive Belt, and the noise was only a rattle, then replace the Belt Tensioner Sub-Assembly and retaining bolt with the revised parts as described below.

If your diagnosis indicates that a complete assembly replacement is in order, the repair manual page numbers for this operation have been provided for your reference.

MODEL	MODEL YEAR	PUBLICATION NUMBER	PAGE
Celica	2000	RM744U2	EM-20
	2001	RM818U2	EM-21
MR2 Spyder	2000	RM760U	EM-15
	2001	RM801U	EM-15

3. Belt Tensioner Sub-Assembly Replacement

- A. Remove the Accessory Drive Belt, and then the Tensioner Assembly by removing the fasteners securing the Tensioner Assembly at the pivot point and at the top of the Tensioner Sub-Assembly (see Figure 1).
- B. Place the Tensioner Assembly in a vice and remove the bolt attaching the Tensioner Sub-Assembly to the Tensioner swing arm (see Figure 1).
- C. Remove and replace the Tensioner Sub-Assembly. Replace the bolt securing the Tensioner Sub-Assembly to the idler arm with the new bolt (see Figure 2).
- D. Re-attach the Tensioner Assembly.



After replacing the Belt Tensioner Assembly:

- E. Fit a wrench on the hexagonal portion of the Belt Tensioner swing arm (see Figure 2).
- F. Slowly move the Belt Tensioner at least 4 times through its full stroke. (It should take at least 3 seconds to work it though one full stroke.) This will release any air from the Tensioner Assembly and prime it for proper operation.

