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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 <u>Valve Clearance</u> 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

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For more information on replacement of the SST Swing Arm refer to TSB SS002-00, <u>Valve Clearance</u> 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

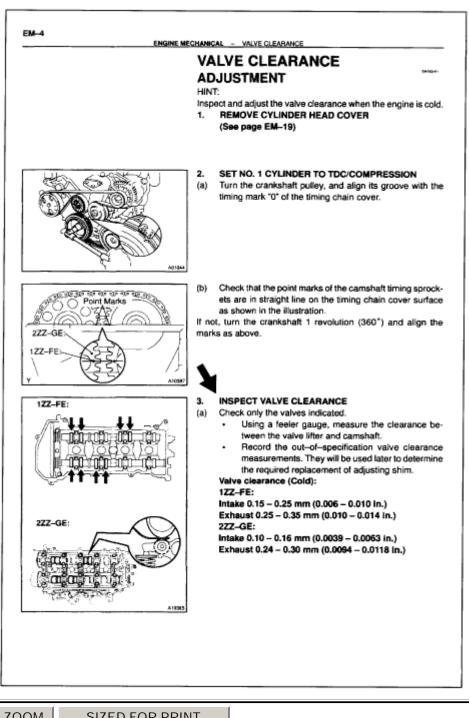
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Required Tools & Material

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

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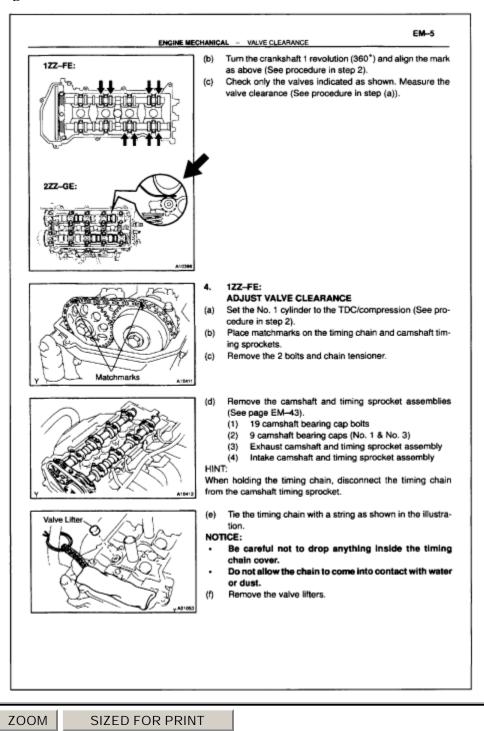
Warranty Information



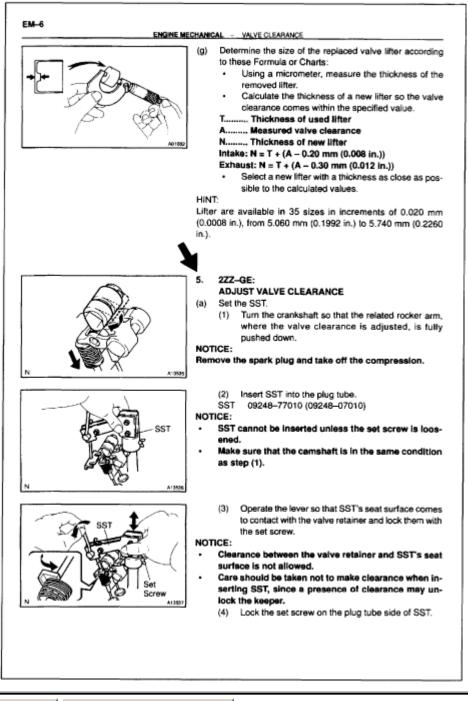
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Page EM-4 (RM744U2); VALVE CLEARANCE: ADJUSTMENT



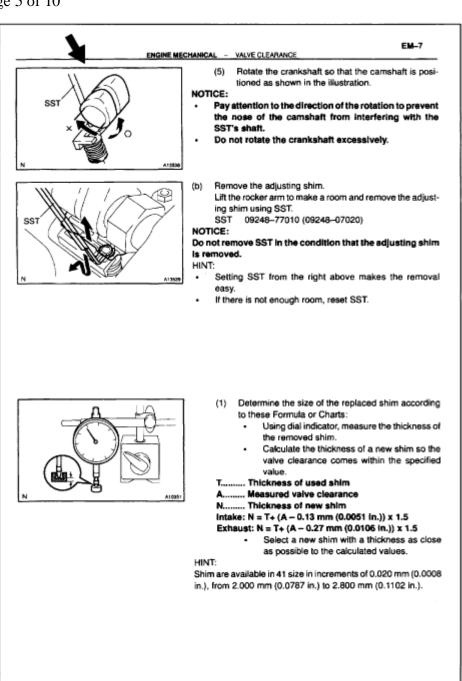
Page EM-5 (RM744U2); VALVE CLEARANCE: ADJUSTMENT



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Page EM-6 (RM744U2); VALVE CLEARANCE: ADJUSTMENT



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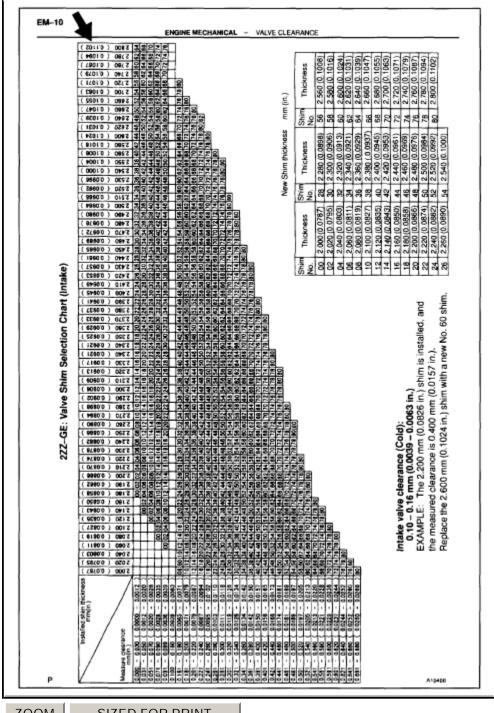
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Page EM-7 (RM744U2); <u>VALVE CLEARANCE</u>: ADJUSTMENT

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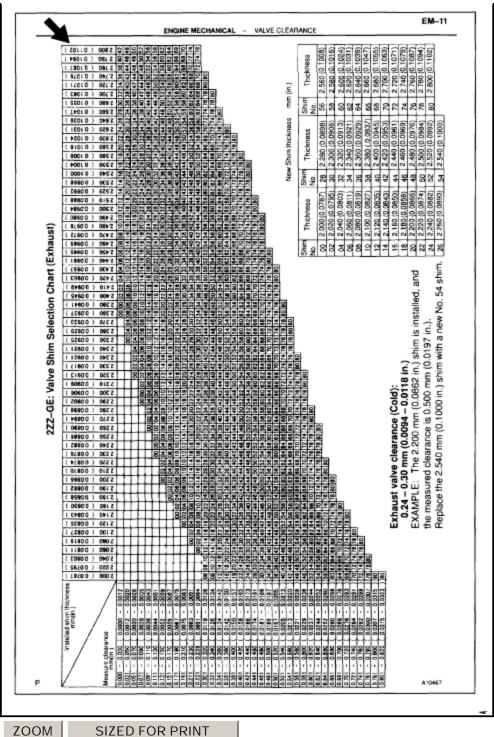
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Page EM-9 (RM744U2); <u>VALVE CLEARANCE</u>: ADJUSTMENT



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Page EM-10 (RM744U2); VALVE CLEARANCE: ADJUSTMENT



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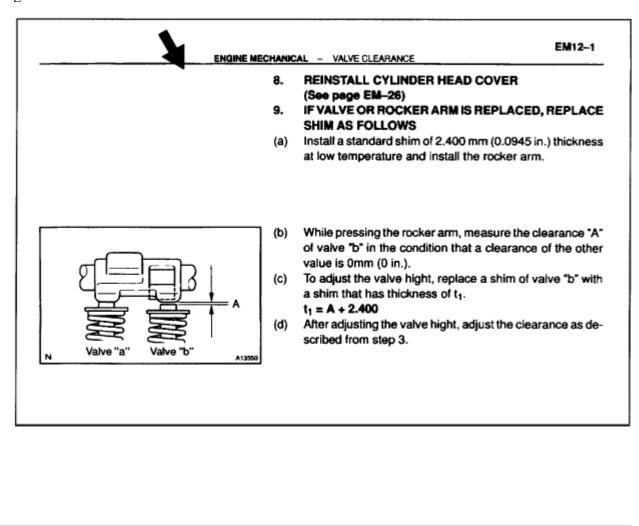
Page EM-11 (RM744U2); VALVE CLEARANCE: ADJUSTMENT

## EM-12 ENGINE MECHANICAL VALVE CLEARANCE 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). Check that the point marks of the camshaft timing sprock-Point Marks ets are in straight line on the timing chain cover surface as shown in the illustration. Check that the matchmarks are on the timing chain and (g) camshaft timing sprockets. 2ZZ-GE Install the chain tensioner (See page EM-26). (i) Recheck the valve clearance (See procedure in step 3). Check the valve timing (See page EM-26). 2ZZ-GE: REINSTALL ADJUSTING SHIM 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 To remove SST from the adjusting shim, it is advisable to push down the rocker arm. 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. After loosening the 2 set screws of SST, remove SST itself. SST 09248-77010 (09248-07010)

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Page EM-12 (RM744U2); VALVE CLEARANCE: ADJUSTMENT



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Page EM12-1 (RM744U2); VALVE CLEARANCE: ADJUSTMENT