	<h1>TSB-Local</h1>	Model	Rio [UB]()
		Group	Engine Mechanical System(12)
		TSB No.	KCE11-12-P330-UB;C21VA
Subject UB Kappa/Gamma Engine Drive Belt Tension Inspection/Adjustment	Published	1/9/2012	
	TSB Type	Service Action	
	Area & Distributor	U.K (C21VA)	

1. Description

- Symptom/Condition
On some RIO (UB) vehicles the Kappa or Gamma engines may have been produced with incorrectly set drive belt tension.
- Countermeasure/Remedy
Inspect the tension of the drive belt, and if necessary, adjust it following the Service Procedure below.

2. Applicable Vehicles

- Model: RIO (UB) equipped with Kappa or Gamma engine
- Applicable vehicle production date range: From Jul. 26, 2011 to Nov. 24, 2011
- Applicable VIN range : VIN List attached

3. Operation Code And Time

OP CODE	OP NAME	OP TIME	NATURE	CAUSE
110132R2	DRIVE BELT TENSION INSPECTION	0.2 M/H	N29	C40
110132R3	DRIVE BELT TENSION INSPECTION AND ADJUSTMENT	0.3 M/H		

Warranty claims must be processed immediately following the repair.

All Campaign claims must be entered via the Global Warranty Management System (GWMS) using the following process.

1. From the home page of the GWMS select the 'Claim Process' tab.
2. Select from the Claim Process Menu (LH toolbar) the 'Claim Create' option.
3. Enter the VIN and 'click' on the 'Inquiry' icon.
4. When the system has loaded the VIN, double click on the VIN.
5. From the Campaign list click on the corresponding campaign number.
6. Complete the highlighted mandatory fields on the preformed claim and select the correct

campaign operation code from the drop down menu applicable to the repair being carried out.

7. Click on 'save' and then 'submit'

4. Service Procedure

NOTE

This procedure has been performed on the vehicle equipped with Gamma engine for reference.

DRIVE BELT TENSION INSPECTION

1. Open the hood.



2. Confirm the alternator type installed on the vehicle by checking the pulley type as depicted below:



with OAD

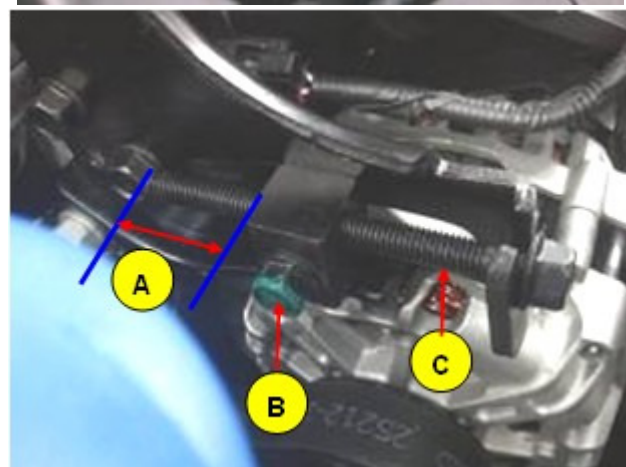
without OAD



3. Using a ruler, measure the distance (A) between the drive belt tensioner adjust bolt end and the alternator upper mounting bolt bracket.

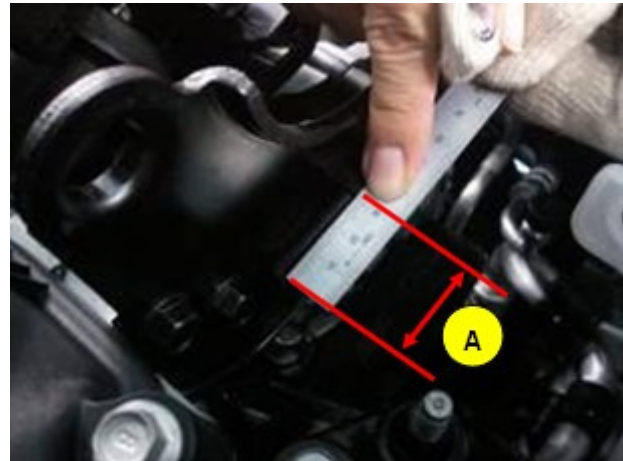
B : Alternator upper mounting bolt

C : Drive belt tensioner adjust bolt



Specification (A)

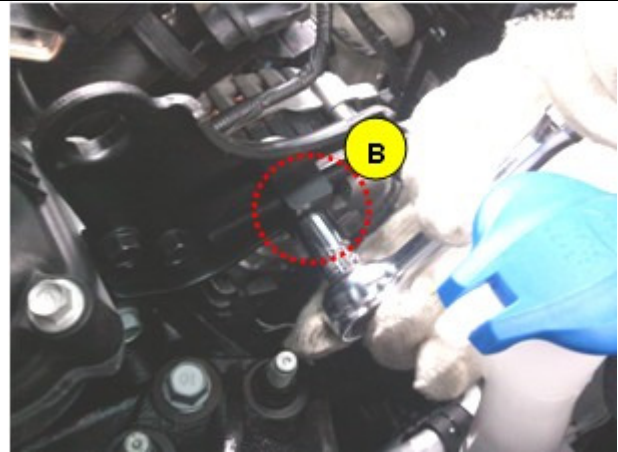
- Gamma 1.4L (with OAD) : 27mm
- Gamma 1.4L/1.6L (without OAD) : 31mm
- Kappa 1.2L (without OAD) : 37mm



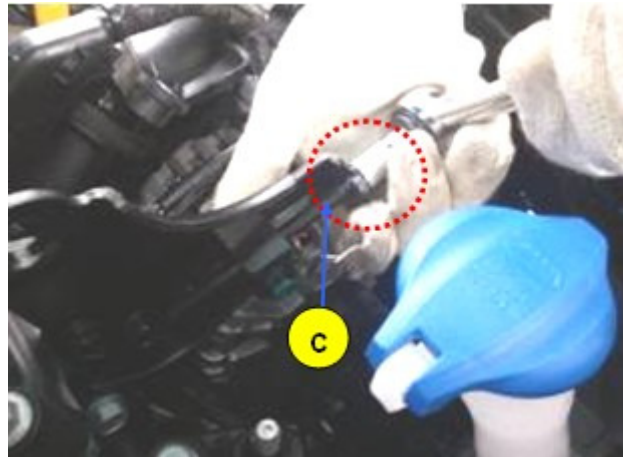
4. If the measured distance is within the specification, no further action is required. If the measurement is not within the specified value, the adjustment should be corrected using the following procedure.

DRIVE BELT TENSION ADJUSTMENT

5. Loosen the alternator upper mounting bolt (B).



6. Loosening or tightening the drive belt tensioner adjust bolt (C), adjust the distance (A) between the drive belt tensioner adjust bolt end and the alternator upper mounting bolt bracket to the specification.



7. Retighten the alternator upper mounting bolt (B).

Tightening torque : 2.0~2.7 kgf.m
(19.7~ 26.4 N.m, 14.5~19.5
lbf.ft)

C : Drive belt tensioner adjust bolt

