

SERVICE BULLETIN

DOMESTIC SALES & AFTER SALES SERVICE OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : INFORMATION	ISSUE NO. : MSB-09E11-003A	DATE : 2010-01-05
SUBJECT : 6B3 ENGINES - TIMING BELT INSTALLATION	<div> <div><MODEL></div> <div>(EUR/RUSSIA)</div> <div>OUTLANDER</div> <div>(GS45X)(CW0W)</div> </div> <div> <div><M/Y></div> <div>07-09</div> </div>	
GROUP : ENGINE		

1. Description:

The timing belt installation procedure for 6B3 engine is changed. This Service Bulletin contains the new procedure.

2. Applicable Manuals:

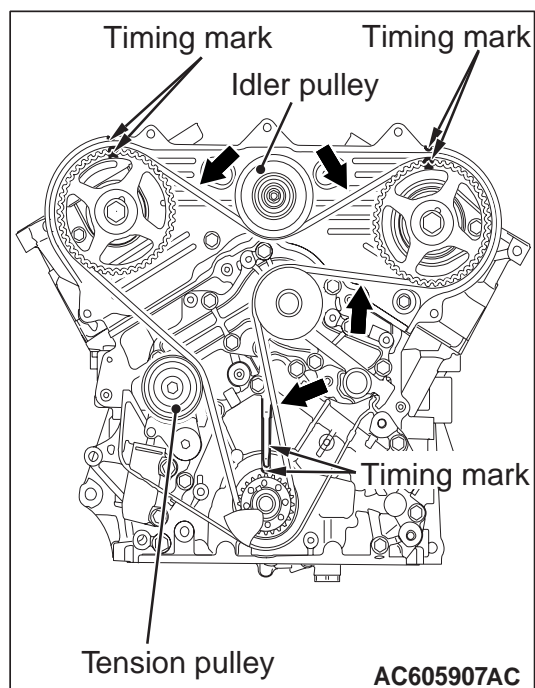
<EUR>

Manual	Pub. No.	Title (Info-ID)	Attached Sheet
2007 OUTLANDER Workshop Manual	CGXE07E1-CD (English) CGXS07E1-CD (Spanish) CGXF07E1-CD (French) CGXG07E1-CD (German)	Timing Belt Removal and Installation (M1112004301756-00)	Attached sheet 3
		Timing Belt Removal and Installation (M1113001901417-00)	Attached sheet 5, 6
2008 OUTLANDER Workshop Manual	CGXE08E2-CD (English) CGXS08E2-CD (Spanish) CGXF08E2-CD (French) CGXG08E2-CD (German)	Timing Belt Removal and Installation (M1112004302113-00)	Attached sheet 3
		Timing Belt Removal and Installation (M1113001901417-00)	Attached sheet 5, 6
2009 OUTLANDER Workshop Manual	CGXE09E1-CD (English) CGXS09E1-CD (Spanish) CGXF09E1-CD (French) CGXG09E1-CD (German) CGXI09E1-CD (Italian)	Timing Belt Removal and Installation (M1112004302113-00)	Attached sheet 3
		Timing Belt Removal and Installation (M1113001902001-00)	Attached sheet 5, 6

<RUSSIA>

Underneath Manual	Underneath Pub. No.	Title (Info-ID)	Attached Sheet
2007 OUTLANDER Workshop Manual	N/A	Timing Belt Removal and Installation (M1112004301756-00)	Attached sheet 3
		Timing Belt Removal and Installation (M1113001901417-00)	Attached sheet 5, 6
2008 OUTLANDER Workshop Manual	N/A	Timing Belt Removal and Installation (M1112004302113-00)	Attached sheet 3
		Timing Belt Removal and Installation (M1113001901417-00)	Attached sheet 5, 6
2009 OUTLANDER Workshop Manual	N/A	Timing Belt Removal and Installation (M1112004302113-00)	Attached sheet 3
		Timing Belt Removal and Installation (M1113001902001-00)	Attached sheet 5, 6

There may be some attached sheets not included in this Service Bulletin because they are not applicable to your market. Their sheet numbers are not listed in the above table.



⚠ CAUTION

The camshaft sprocket (right bank) can turn easily due to the spring force applied, so be careful not to get your fingers caught.

4. Install the timing belt by the following procedure so that there is no deflection in the timing belt between each sprocket and pulley.

- (1) Crankshaft sprocket
- (2) Water pump pulley
- (3) Camshaft sprocket (Left bank)
- (4) Idler pulley
- (5) Camshaft sprocket (Right bank)
- (6) Tensioner pulley

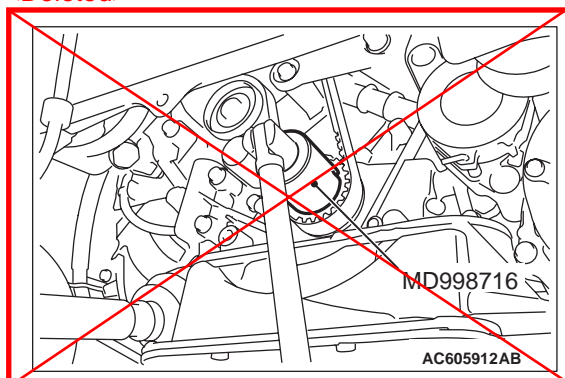
<Incorrect>

5. ~~Turn the camshaft sprocket (Right bank) anti-clockwise until the tension side of the timing belt is firmly stretched. Check all the timing marks again.~~

<Correct>

Apply the force to the camshaft sprocket (Right bank) anti-clockwise until the tension side of timing belt is tight. Check all the timing marks again.

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6. ~~Use special tool crankshaft wrench (MD998716) to turn the crankshaft 1/4 turn anti-clockwise, then turn it again clockwise until the timing marks are aligned.~~

7. Remove the setting pin that has been inserted into the timing belt auto-tensioner.

8. Turn the crankshaft clockwise twice to align the timing marks.

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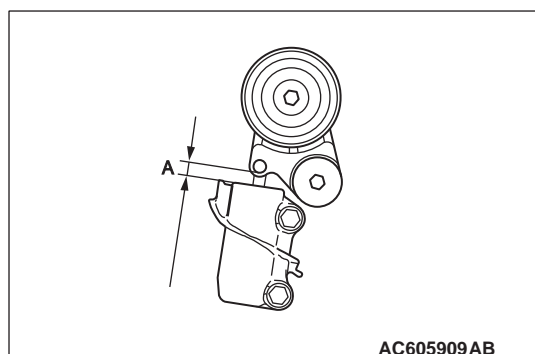
Use special tool crankshaft wrench (MD998716),

9. Wait for at least five minutes, then check that the timing belt auto-tensioner pushrod extends within the standard value range.

Standard value (A): 9.1 – 13.4 mm

10. If not, repeat the operation in steps 1 to 8 above.

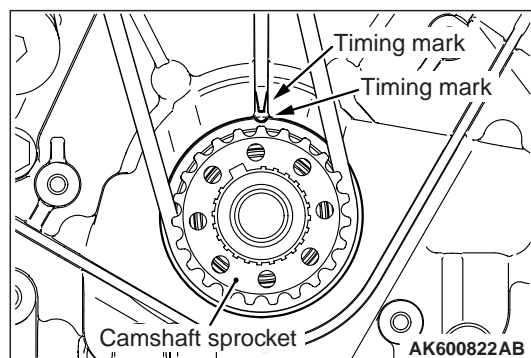
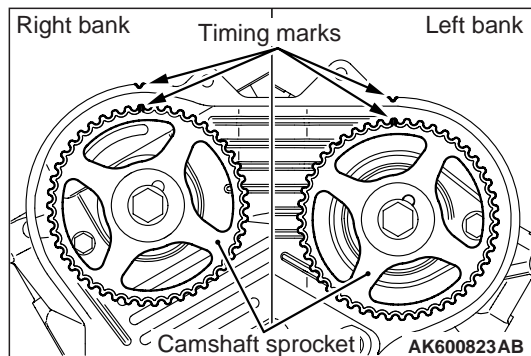
11. Check again that the timing marks of the each sprockets are aligned.



>>E<< TIMING BELT INSTALLATION

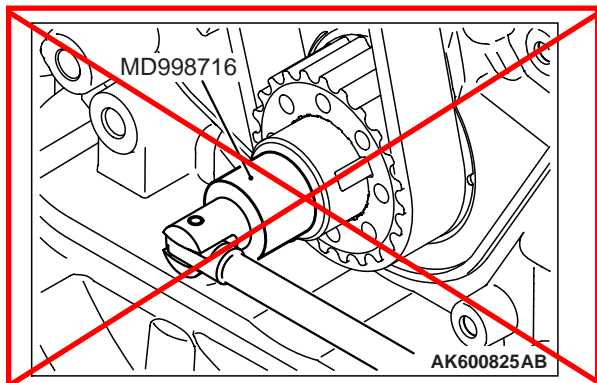
CAUTION

Remove and install the timing belt, aligning the timing marks of the crankshaft sprocket and the camshaft sprocket with the No.1 at the Top Dead centre of the compression stroke.

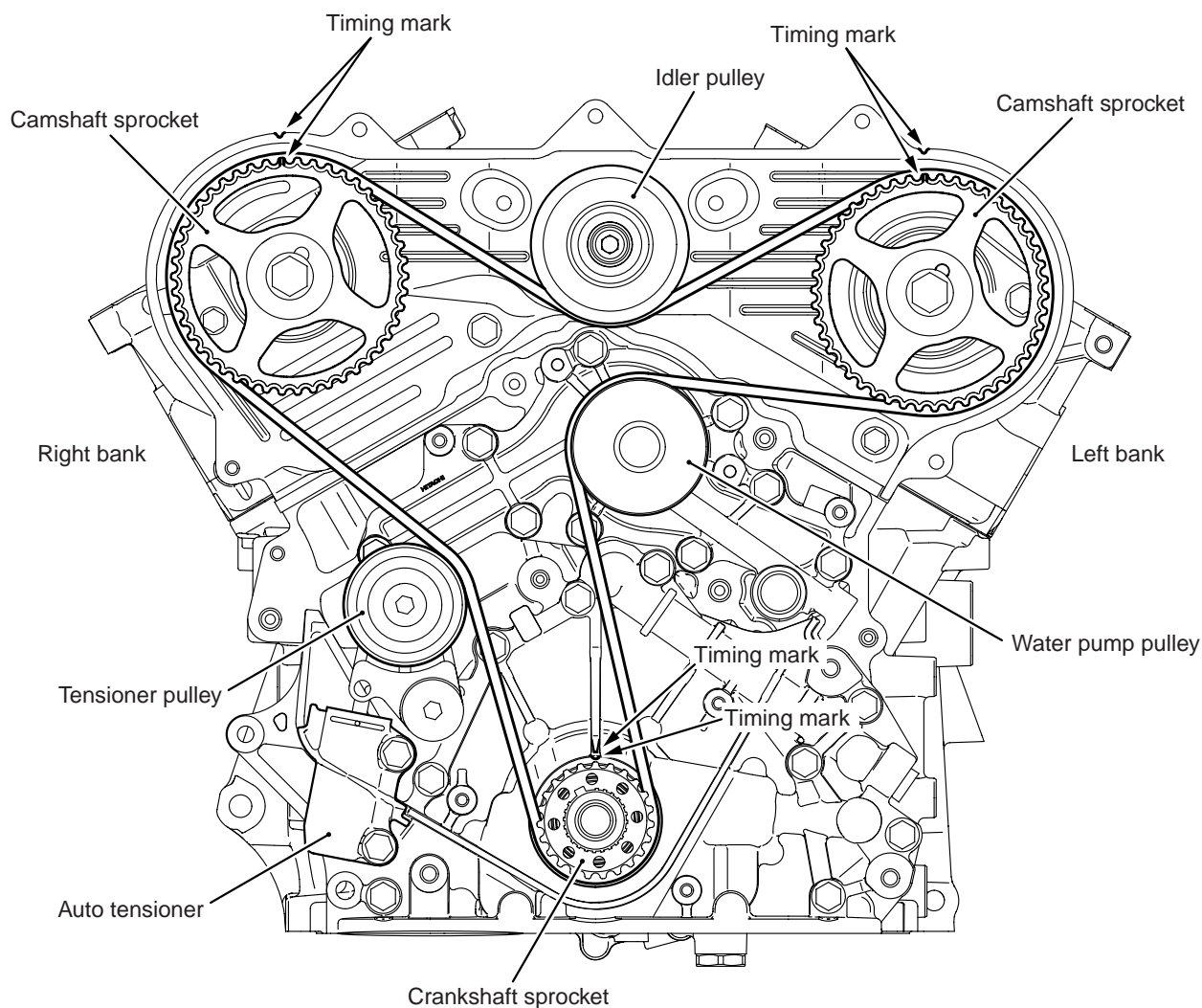


1. Check the timing marks of the crankshaft sprocket and the camshaft sprocket are aligned with the No.1 at the Top Dead centre of the compression stroke. If they are not, align the timing marks again, paying attention to the interference between the valve and the piston.
2. Install the timing belt on each sprocket in the following sequence.
 - (1) Install the timing belt on the crankshaft sprocket and then on the water pump pulley, while tightening it to prevent slackness. **<Incorrect>**
 - (2) **Line up the timing marks of the left bank camshaft sprockets.**
 - (3) Install the timing belt on the idler pulley, while taking up the slack.
 - (4) Install the timing belt on the right bank camshaft sprocket.
 - (5) Install the timing belt on the tensioner pulley.
3. Check to see that the timing marks of all the sprockets are in a alignment. **<Correct>**


Install the timing belt on the left bank camshaft sprocket.



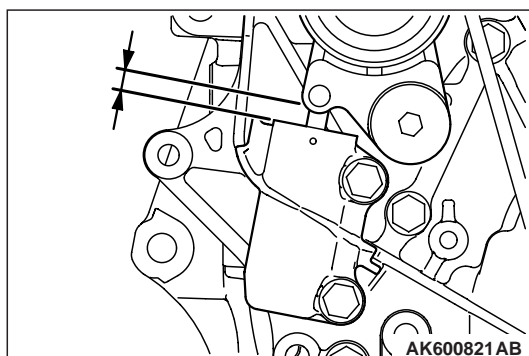
4. Using special tool Crankshaft wrench (MD998716), rotate the crankshaft a quarter of a turn counterclockwise. Then rotate it back clockwise to verify that all the timing marks are in alignment.
5. Pull out the pin of the auto-tensioner. **<Delete>**



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6.  Rotate the crankshaft two turns clockwise and leave it alone for approximately five minutes.
7. Check that the projection of the rod of the auto-tensioner is within the standard value.

Standard value: 9.1 – 13.4 mm



<Added>

Using special tool Crankshaft wrench (MD998716),