

SERVICE BULLETIN

AFTERSALES SERVICE OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE: INFORMATION	ISSUE NO.: MSB-08E11-002	DATE: 2008-03-20	
SUBJECT : VALVE SPRINGS FOR 4B1 NON-TURBO ENGINE		<model> (EUR/RUSSIA)</model>	<m y=""></m>
GROUP : ENGINE		LANCER (GS41)(CY0A) OUTLANDER (GS45X)(CW0W)	00

1. Description:

The valve springs for the 4B1 non-turbo engine are changed in order to improve productivity and to be used commonly with other models. This Service Bulletin contains the modified descriptions related to the valve springs.

2. Applicable Manuals:

<EUR/RUSSIA>

Manual	Pub. No.	Title (Info-ID)	Attachment
2008 OUTLANDER Workshop Manual	CGXE08E2-CD (English) CGXS08E2-CD (Spanish) CGXF08E2-CD (French)	Camshaft and Valve Stem Seal Removal and Installation (M113-00-691-65001-01)	Attachment 1
2008 OUTLANDER Technical Information Manual	CGXG08E2-CD (German)	Base Engine (M112-00-101-41400-01)	Attachment 2
2008 LANCER Technical Information Manual	CG1E08E1-CD (English) CG1S08E1-CD (Spanish) CG1F08E1-CD (French) CG1G08E1-CD (German)	Base Engine <4B10> (M112-00-101-38400-01) Base Engine <4B11> (M112-00-101-39500-01)	Attachment 3

<RUSSIA>

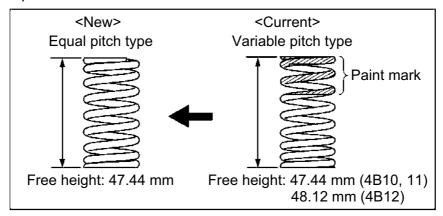
Underneath Manual	Underneath Pub. No.	Title (Info-ID)	Attachment
2008 LANCER Technical Information Manual	N/A	Base Engine (M112-00-101-13500-01)	Attachment 3

3. Effective Date:

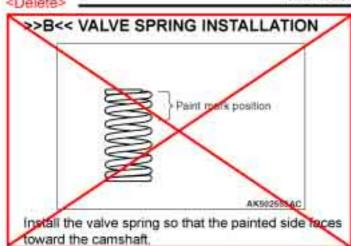
From mid October, 2006

4. Details:

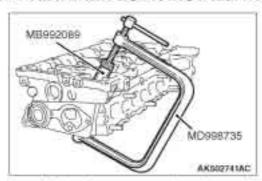
The valve springs are changed from the variable pitch type to the equal pitch type. Accordingly, the paint mark for identification of the installation direction has been abolished.



CYLINDER HEAD AND VALVES



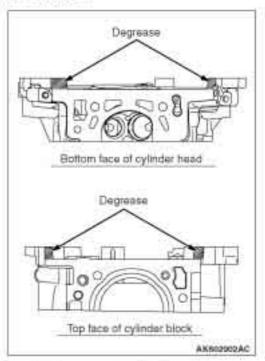
>>C<< RETAINER LOCK INSTALLATION



Use a special tool to compress the valve spring and to install the retainer lock.

- Valve spring compressor (MD998735)
- Retainer holder C (MB992089)

>>D<< CYLINDER HEAD GASKET / CYLINDER HEAD ASSEMBLY INSTALLATION



 Completely remove the liquid gasket on the upper plane of the cylinder block and the lower plane of the cylinder head.

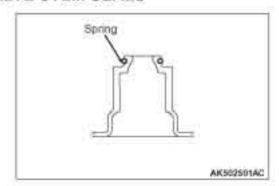
△ CAUTION

Sufficiently check that there is no residual oil on the place where degreasing is performed. If fingerprints are left, do not touch it with bare hands after the degreasing, since the oils from your fingers will harm the seal ability.

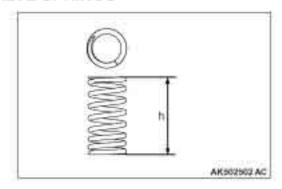
Using white gasoline and so on, degrease the place specified in the illustration.

BASE ENGINE

VALVE STEM SEALS

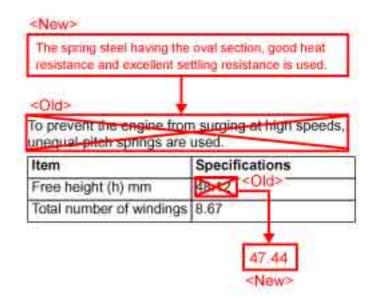


VALVE SPRINGS

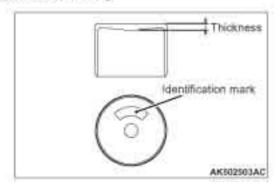


The valve stem seals are integrated with the valve spring seats.

The valve stem seal portion excels in sealing performance and is equipped with a spring to prevent oil from descending.



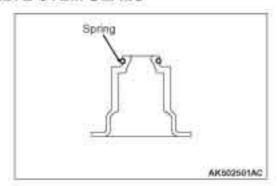
VALVE TAPPETS



To adjust the valve lift, 47 sizes of valve tappets are available in 0.015 mm increments, from 3.000 to 3.690 mm.

BASE ENGINE

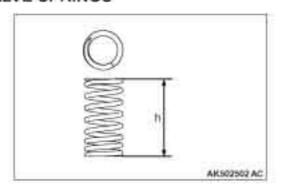
VALVE STEM SEALS

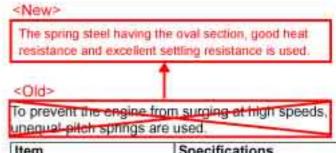


The valve stem seals are integrated with the valve spring seats.

The valve stem seal portion excels in sealing performance and is equipped with a spring to prevent oil from descending.

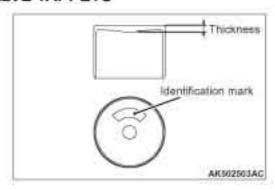






Item	Specifications
Free height (h) mm	47.44
Total number of windings	8.67

VALVE TAPPETS



To adjust the valve lift, 47 sizes of valve tappets are available in 0.015 mm increments, from 3.000 to 3.690 mm.