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# SHOP MANUAL

## **KOMATSU** **WA380-1**

MACHINE MODEL    SERIAL No.  
**WA380-1**            **10001 and up**

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.
- WA380-1 mount the SA6D110-1 engine.  
For details of the engine, see the 110 Series Engine Shop Manual.

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## TESTING AND ADJUSTING FUEL INJECTION TIMING

- ★ Measurement condition
- Coolant temperature: Inside operating range.

Unit: degree

Item	Standard value	Permissible value
Fuel injection timing	B.T.D.C. 16	16 ± 1

### TESTING FUEL INJECTION TIMING

1. Disconnect fuel injection pipe (1) of No. 1 cylinder.
2. Remove delivery valve holder (2), then remove delivery valve (3) and spring (4), and install delivery valve holder (2) again.
3. Place fuel control lever at FULL position.
4. Operate priming pump and rotate crankshaft slowly in normal direction. Check point where fuel stops flowing from delivery valve holder (2).
5. Check that 16° I.J. line on crankshaft pulley (5) and pointer (6) are aligned at point where fuel stops flowing.

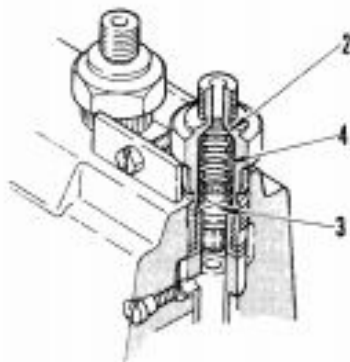
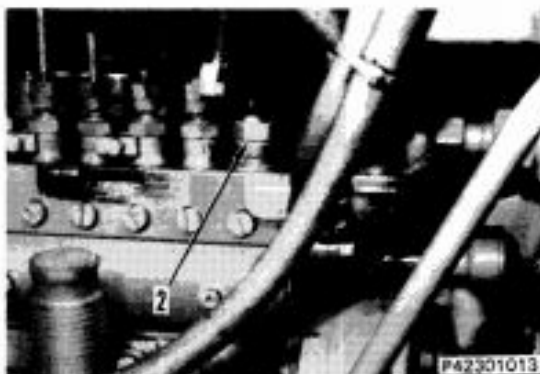
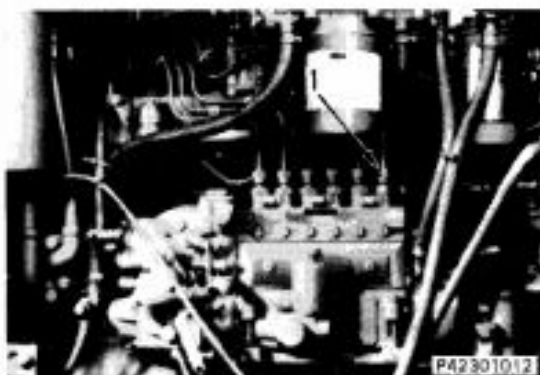
- ★ BEYOND injection timing line:

Timing RETARDED

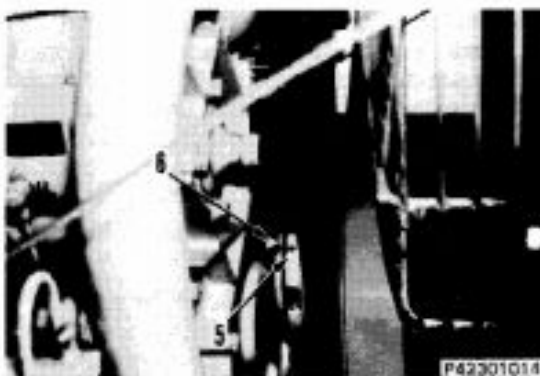
- ★ BEFORE injection timing line:

Timing ADVANCED

- ★ If the test shows that the fuel injection timing is incorrect, adjust as follows.



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