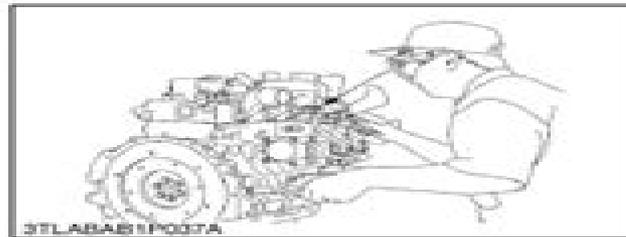


SECTION 5 FUEL SYSTEM

5.1 CHECKING AND ADJUSTING



5.1.1 Injection Timing

1. Remove the injection pipes from the injection pump.
2. Move the speed control lever to the maximum speed position.
3. Turn the flywheel counterclockwise (facing the flywheel) until the fuel fills up the hole of the delivery valve holder for #1 cylinder.
4. Turn the flywheel further and stop turning when the fuel begins to flow over.
5. Open the view port on the flywheel bell housing and read the number on the flywheel. The number indicated is the timing value for the engine. (The flywheel has a mark "1TC" and marks every 5° of engine timing to 25° total).

Timing 26-00118-00	Factory Specification	0.06 to 0.08 rad. 3.25° to 4.75° B.T.D.C.
Timing 26-00119-00	Factory Specification	0.09 to 0.12 rad. 5.25° to 6.75° B.T.D.C.
Timing 26-00119-03	Factory Specification	0.06 to 0.08 rad. 3.75° to 5.25° B.T.D.C.
Timing 26-00119-02	Factory Specification	0.10 to 0.13 rad. 5.75° to 7.25° B.T.D.C.
Timing 26-00120-00	Factory Specification	0.16 to 0.19 rad. 9.00° to 11.00° B.T.D.C.
Timing 26-00120-01	Factory Specification	0.09 to 0.12 rad. 5.25° to 6.75° B.T.D.C.

NOTE

Injection timing adjustment is accomplished by adding or removing shims under the injection pump.

The timing advances by removing one shim and retards timing by adding the same shim.

The addition or removal of 0.05 mm (0.0020 in.) of shim, changes the injection timing by approximately 0.0087 rad. (0.5°).

The sealant should be applied to both sides of the soft metal gasket shim.

5.1.2 Shim Identification

Shims are available in thicknesses of 0.20 mm, 0.25 mm, 0.30 mm, and 0.35mm. Combine shims for adjustments.



- | | |
|--------------------------|--------------------------|
| 1. 2-Holes: 0.20 mm shim | 3. 0-Holes: 0.30 mm shim |
| 2. 1-Hole: 0.25 mm shim | 4. 3-Holes: 0.35 mm shim |

5.1.3 Delivery Valves Fuel Seal

1. Remove the injection pipes, glow plugs, and the intake manifold, and install a compression gauge.
2. With the speed control lever set at the full throttle position, turn the crankshaft counterclockwise until the fuel pressure is built up.
3. Release the pressure in the delivery chamber by rotating the crankshaft to bottom dead center. (Turn the crankshaft 1.57 rad. (90°) clockwise from fuel timing set point)
4. If the pressure drop for 5 seconds exceeds the allowable limit, replace the delivery valve or pump assembly.
5. If the pressure does not build up, replace the pump element with a new one and test again.

Delivery Valve Fuel Tightness	Factory Specification	less than 981 kPa(10 kgf/cm ² , 142 psi pressure drop from injection pressure for 10 seconds)
	Allowable Limit	981 kPa(10 kgf/cm ² , 142 psi pressure drop from injection pressure for 5 seconds)

Engine Workshop Manual

Guillaume Favre



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