

## 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<br>26-00118-00 | Factory<br>Specification | 0.06 to 0.08 rad.<br>3.25° to 4.75°<br>B.T.D.C.  |
| Timing<br>26-00119-00 | Factory<br>Specification | 0.09 to 0.12 rad.<br>5.25° to 6.75°<br>B.T.D.C.  |
| Timing<br>26-00119-03 | Factory<br>Specification | 0.06 to 0.08 rad.<br>3.75° to 5.25°<br>B.T.D.C.  |
| Timing<br>26-00119-02 | Factory<br>Specification | 0.10 to 0.13 rad.<br>5.75° to 7.25°<br>B.T.D.C.  |
| Timing<br>26-00120-00 | Factory<br>Specification | 0.16 to 0.19 rad.<br>9.00° to 11.00°<br>B.T.D.C. |
| Timing<br>26-00120-01 | Factory<br>Specification | 0.09 to 0.12 rad.<br>5.25° to 6.75°<br>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
2. 1-Hole: 0.25 mm shim
3. 0-Holes: 0.30 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<br>Fuel Tightness | Factory<br>Specification | less than 981 kPa(10<br>kgf/cm <sup>2</sup> , 142 psi pres-<br>sure drop from injec-<br>tion pressure for 10<br>seconds) |
|                                  | Allowable<br>Limit       | 981 kPa(10 kgf/cm <sup>2</sup> ,<br>142 psi pressure drop<br>from injection pres-<br>sure for 5 seconds)                 |

# Kubota Engine V2203 Cylinder Head Manual

**Jiyuan Zhang**



## **Kubota Engine V2203 Cylinder Head Manual:**

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*Toyota 2f Engine Repair Manual* Toyota Corporation, 2006-01-01 Factory engine repair manual for the iconic 2F petrol gasoline engine as fitted to the Toyota 40 55 and 60 Series four wheel drive vehicles This repair manual has been prepared to provide information covering general repair for 2F Gasoline engine as fitted to the TOYOTA LAND CRUISER Per Toyota Motor Sales Co LTD The Toyota 2F engine was one of the F series of OHV inline 6 cylinder engines produced by Toyota between 1955 1992 F Series engines are known for their high amount of torque at low RPM massive cast iron blocks and heads and also their high reliability The 2F Engine had one of the longest production runs of any Toyota engine The F Series engines all incorporate overhead valves actuated by pushrods from a gear driven camshaft in the lower portion of the engine The engine was first introduced in the Toyota FJ40 Land Cruiser and in many countries was the only gasoline engine offered in the Landcruiser until 1993 Although it s commonly badged as the Land Cruiser engine it was used in a variety of other large truck applications as well such as in fire trucks and the Toyota FQ15 trucks It was also used in the Crown based Japanese Police Patrol Cars FH26 and FS20 FS50      **Twin Cylinder "L" Head Repair Manual** , 1999      **Chilton's Repair and Tune-up Guide: Capri** Chilton Book Company. Automotive Editorial Department, 1973      *Workshop Manual for the Isuzu Diesel Engine* Isuzu Motors, 1971 For 6 cylinder trucks produced in 1973      *Repair Manual for Single Cylinder OHV Engines* , 1999

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