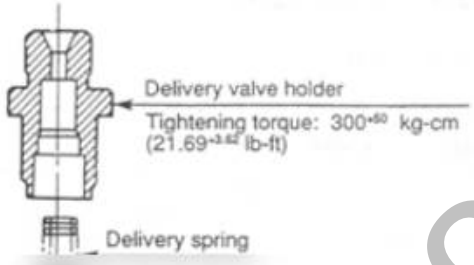
3) Disassembly and reassembly

This is standard fuel injection pump body. Disassemble and reassemble the fuel pump in the direction order of "UP", "DOWN" and "SIDE" from the center of the fuel injection pump body (marked "C") as illustrated.

Reassemble the gasket A and B for the



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2. Meters, Instruments, and Service Accessories

(Necessary for middle- and small-size engine service shops)

– Typical sizes –

Instrument Name	Description	Illustration
Dial gauge	mm (in.) 1 div. 0.01 (0.0004) To measure bending and gap of the shaft, surface	

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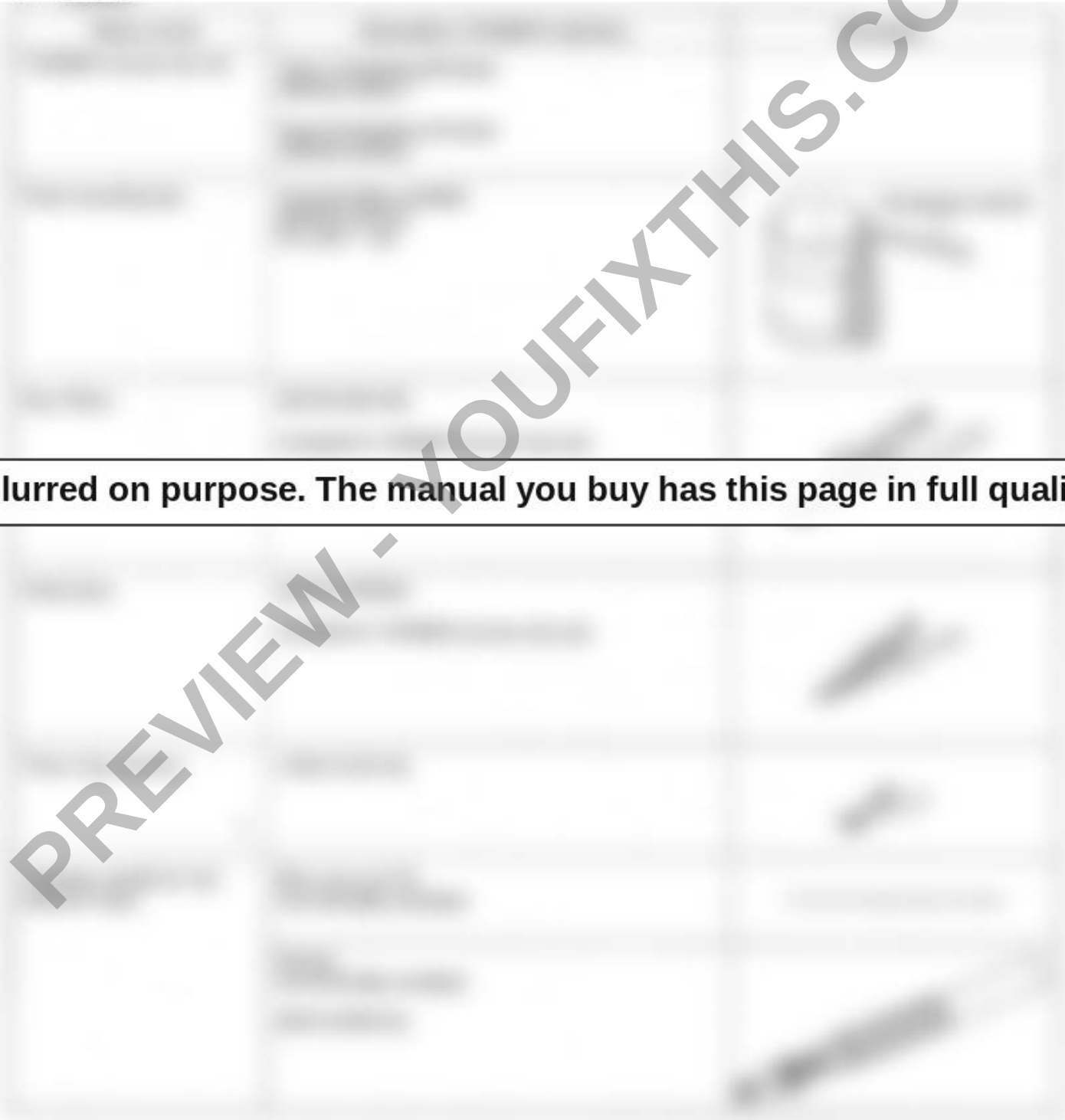
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3. Disassembly and Reaseembly

3.1 TOOLS, METERS AND INSTRUMENTS

Keep the following tools, jigs, and other service items on hand to ensure accurate measurement and diagnosis and efficient servicing.

1. Tools



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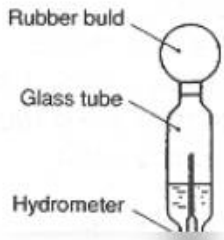
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2. Battery inspection

(1) Check the electrolyte level in each cell. If the level is insufficient, add distilled water to attain the upper limited level.



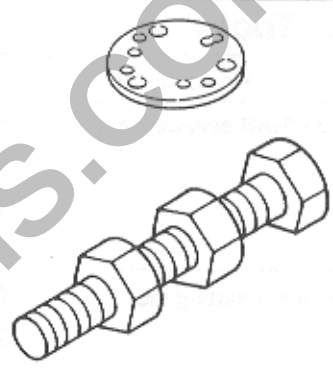
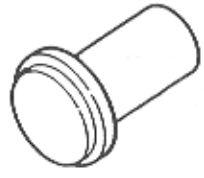


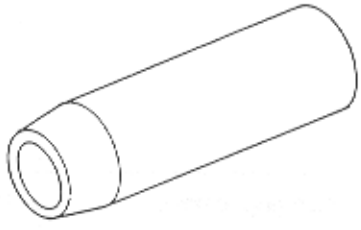
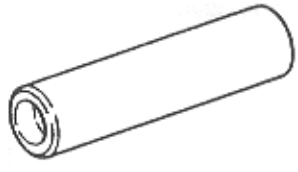
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<table>
<tr><th>Name of tool</th><th>Description (YANMAR Code No.)</th><th>Illustration</th></tr>
<tr><td>Flywheel end nut wrench*</td><td>Special-purpose tool for tightening the crankshaft end nut.

(114250-92101)</td><td></td></tr>
<tr><td>Flywheel extractor*</td><td>(114250-92121)
<table>
<tr><th>Model</th><th>Bolt</th><th>pcs</th><th>Nut</th><th>pcs</th></tr>
<tr><td>L40AE – L70AE</td><td>26116-060454</td><td>3</td><td>26716-060002</td><td>6</td></tr>
<tr><td>L75AE – L100AE</td><td>"</td><td>4</td><td>"</td><td>8</td></tr>
</table></td><td></td></tr>
<tr><td>Oil seal fitting tool*</td><td>
<table>
<tr><th rowspan="2">Code</th><th colspan="2">Applicable part</th></tr>
<tr><th>Cylinder block (Crankshaft)</th><th>Sidecover (Crank & Cam shaft)</th></tr>
<tr><td>114250-92311</td><td>—</td><td>L40AE, L48AE</td></tr>
<tr><td>114350-92311</td><td>L40AE ~ L70AE</td><td>L60AE, L70AE</td></tr>
<tr><td>114650-92310</td><td colspan="2">L75AE ~ L100AE</td></tr>
</table></td><td></td></tr>
<tr><td>Oil seal fitting guide*</td><td>After insertion of seal into crankcase cover, use this tool to install crankcase cover on cylinder block.

Jig for inserting crankshaft and camshaft oil seals
<table>
<tr><th>Code</th><th>Applicable Model</th></tr>
<tr><td>114250-92301</td><td>L40AE-S, L48AE-S, L40AE-D, L48AE-D</td></tr>
<tr><td>114268-92300</td><td>L40AE-DE, L48AE-DE</td></tr>
<tr><td>114350-92301</td><td>L60AE-S, L70AE-S, L60AE-D, L70AE-D</td></tr>
<tr><td>114368-92300</td><td>L60AE-DE, L70AE-DE</td></tr>
<tr><td>114650-92300</td><td>L75AE-S, L90AE-S, L100AE-S</td></tr>
<tr><td>114668-92300</td><td>L75AE-DE, L90AE-DE, L100AE-DE</td></tr>
</table></td><td></td></tr>
<tr><td>Valve stem seal fitting tool*</td><td>
<table>
<tr><th>Model</th><th>Code</th></tr>
<tr><td>L40AE, L48AE</td><td>114250-92350</td></tr>
<tr><td>L60AE, L70AE</td><td>114350-92350</td></tr>
<tr><td>L75AE–100AE</td><td>114650-92350</td></tr>
</table></td><td></td></tr>
</table>

*Dimensions of oil seal fitting tool, oil seal fitting guide, flywheel tightening handle, flywheel extractor and valve stem seal fitting tool are detailed in Appendix 2.

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Unit: mm (in.)

Parts		Model	Standard	Service limit	Remarks
Camshaft					
Needle bearing on cylinder block side	Shaft O.D.	L40AE~ L100AE	14.989–15.000 (0.5901–0.5906)	14.92 (0.5874)	
	Bearing I.D.	L40AE~ L100AE	15.016–15.034 (0.5912–0.5919)	—	

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Specifications

Item \ Model		L75AE–				L90AE–			
		D	S	DE	SE	D	S	DE	SE
Type		Single-cylinder, vertical-4 cycle air-cooled diesel							
Cooling system		Forced air cooling by flywheel fan							
Combustion system		Direct injection system							
Starting system		Recoil starter		Starting motor with recoil starter		Recoil starter		Starting motor with recoil starter	
Number of cylinders - Bore × Stroke	mm (in.)	1–80 × 70				1–84 × 70			

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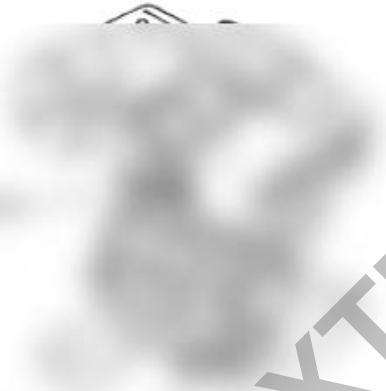
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2. SERIAL NUMBER LOCATION

Engine serial number (E/#) is indicated in the engine nameplate, and is stamped on the crankcase cover. Before ordering service parts, be sure to check serial number and identify necessary parts by nos. (Parts may not have interchangeability as a result of a change in the specification.)



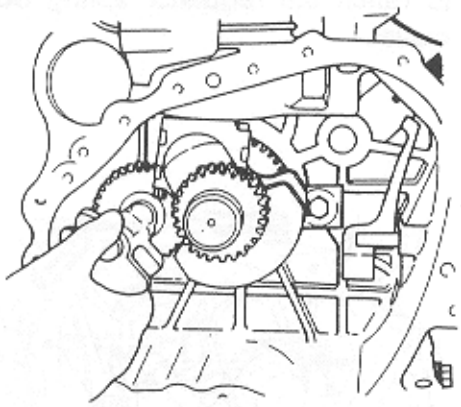
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17. Balancer shaft

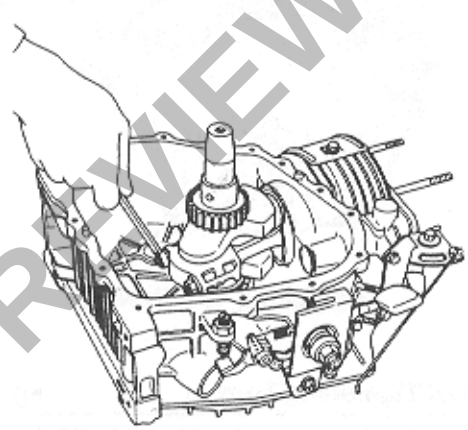
Pull out the balancer shaft.



Removing the balancer shaft

18. Piston and connecting rod assembly

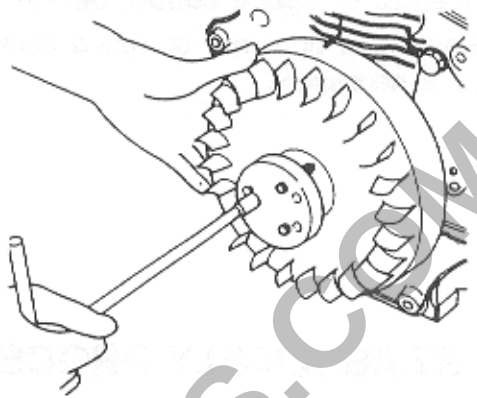
1) Remove the connecting rod tightening nuts.
2) Remove the big end cap.
3) Move the crankshaft to the top of the stroke and pull out the piston.
   - Remove carbon deposited on the upper inside surface of the sleeve (when extracting the piston).
   - Make sure the main bearing is in the proper position.



Removing the rod bolts and nuts.

19. Flywheel

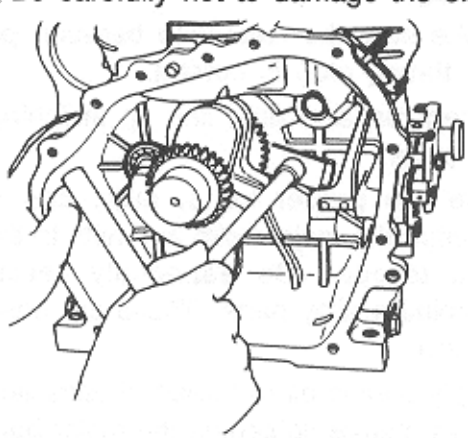
1) Loosen the lock nut.
2) Remove the flywheel.
   - Use flywheel extractor (special tool).
   - Securely thread in the extractor bolts.



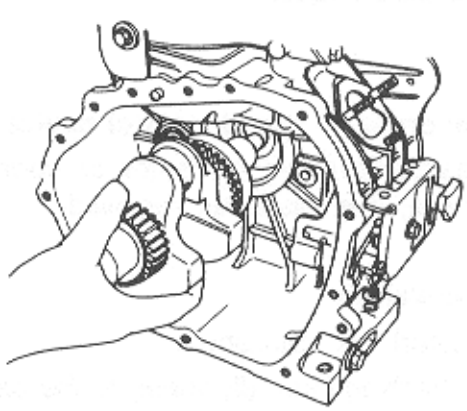
Removing the flywheel

20. Crankshaft

1) Remove the flywheel key.
2) Remove the bearing holder.
3) Pull out the crankshaft.
   - Be carefully not to damage the oil seal.



Removing the bearing holder



Pulling out the crankshaft

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4.10 FUEL SYSTEM

1. Fuel injection pump

1) Specifications

Model: YPFE-M

Item \ Model	L40AE	L48AE	L60AE	L70AE	L75AE	L90AE	L100AE
Base engine							

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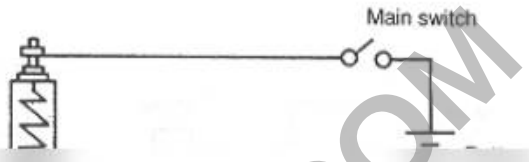
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4. Air Heater (Optional)

An air heater is available for warming intake air during starting in cold weather. The air heater is mounted on the end of the intake bend.
The device is operated by the key switch on the instrument panel.
A timer is used for the pre-heating. When the air

Air heater system circuit (without timer)



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