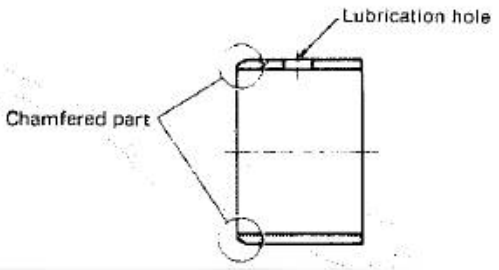
Fig. EP-53. Main bearing insertion direction



for model 2T90LE (see pages 4-29 and 30).

c) Intermediate main bearing inspection

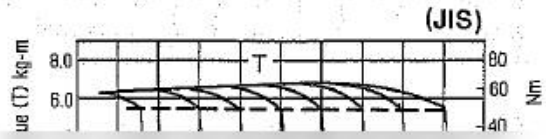
1. Tighten the intermediate main bearing housing to the specified torque.
2. Measure the inside diameter of the bearing at the rear and front. If there is wear exceeding the service limit, replace.

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Fig. GI-14. 3T75HLE performance curves



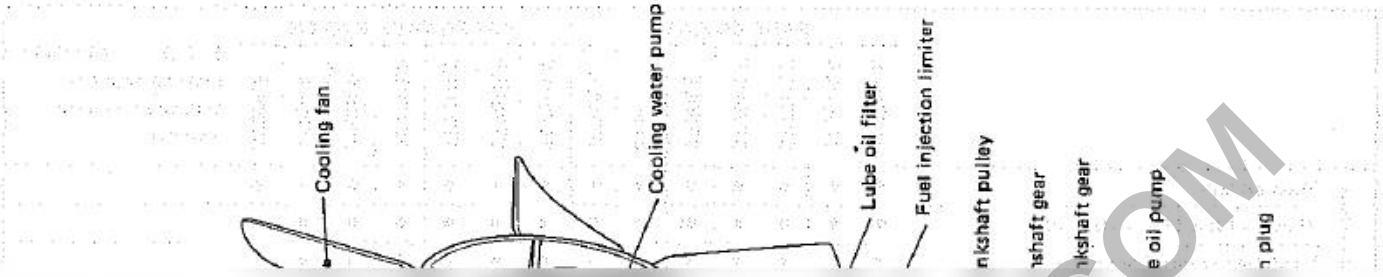


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Fig. GI-17. 3T80LE Sectional view



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2. After cleaning the element with compressed air, be sure to check it for pinholes, as well as for breakdown or deformation.
3. Do not use any oil in the dry-type air cleaners' dust-cup.

b) Precautions for replacing the element

1. Check the rubber-lined washer and rubber packing

   If the rubber part of the rubber-lined washer or rubber packing is broken or deformed, replace the defective part.
2. Check for damage to the suction port pipe on the air cleaner, which is attached to the engine, and be sure the hose band is tight.
3. Check the condition of the suction port pipe on the air cleaner which is coupled to the engine, and be sure the hose band is tight.

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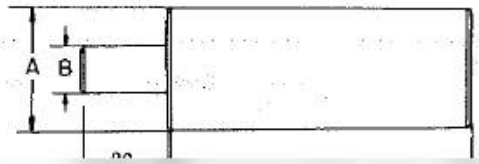
Fig. GI-6. 3T80LE External view



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Tool Used	Shape & Size	Handling	Remarks
Piston pin puller mm (in.)			

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7. Accessories

● = Standard ★ = Option — = Not Available

		BARE ENGINE							POWER PACK ENGINE							1, 2, 3 . . . . should be ordered together indicated by same number.
		2T72HLE	2T75HLE	3T72HLE	3T75HLE	2T90LE	3T80LE	3T90LE	2T72HLE	2T75HLE	3T72HLE	3T75HLE	2T90LE	3T80LE	3T90LE	
Fuel system	Fuel oil tank	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
	Fuel oil filter (Paper element)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Fuel feed pump (Electrical)	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
	Fuel feed pump (Mechanical)	★	★	★	★	—	—	★	★	★	★	★	—	—	★	
Lubrication system	Lube oil pan	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Lube oil filter (Cartridge; spin-on type)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Lube oil evacuation pipe	★	★	★	★	★	★	★	★	★	★	★	●	●	●	
	Lube oil pressure sender switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Cooling system	Radiator	★	★	★	★	★	★	★	●	●	●	●	●	●	●	1
	Radiator bracket	★	★	★	★	★	★	★	●	●	●	●	●	●	●	1
	Radiator fan	● Puser or puller							● Pusher							
	Cooling water hose (Pump-cylinder)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Cooling water hose (Pump-radiator)	★	★	★	★	★	★	★	●	●	●	●	●	●	●	1
	Cooling water pump	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Cooling water temperature sender switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Cooling water temperature sensor for gauge	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
	Thermostat	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Fan belt	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Electrical system	Starter motor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Starter motor for cold starting	—	★	★	★	★	★	★	—	★	★	★	★	★	★	
	Alternator	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2
	Alternator for cold starting	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
	Voltage regulator	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2
	Thermostart for cold starting	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
	Battery	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
	Battery cable	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
	Battery switch	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
	Wireharness equipped on the block	★	★	★	★	★	★	★	●	●	●	●	●	●	●	
	Wireharness for remote panel (extension)	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
Induction & Exhaust system	Intake manifold	●	●	●	●	—	●	●	●	●	●	●	—	●	●	
	Air cleaner	★	★	★	★	★	★	★	●	●	●	●	●	●	●	
	Exhaust manifold	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Exhaust silencer	★	★	★	★	★	★	★	●	●	●	●	●	●	●	
P.T.O system	Flywheel for back plate	●	●	●	●	●	●	●	★	★	★	★	★	★	★	3
	Flywheel for bell housing	★	★	★	★	★	★	★	●	●	●	●	●	●	●	4
	Flywheel for 10" industrial clutch	—	—	—	—	—	—	★	—	—	—	—	—	—	★	5
	Center bearing for flywheel	★	★	★	★	★	★	★	●	●	●	●	●	●	●	
	Back plate	●	●	●	●	●	●	●	★	★	★	★	★	★	★	3
	Bell housing	★	★	★	★	★	★	★	●	●	●	●	●	●	●	4
	Bell housing for 8" and 10" industrial clutch	—	—	—	—	—	—	★	—	—	—	—	—	—	★	5
	Flywheel adaptor for 8" industrial clutch	—	—	—	—	—	—	★	—	—	—	—	—	—	★	5

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7. Fuel System

1. Service Information

[1-1] Description

In a diesel engine the fuel injection system takes selected by the engine builder as being most

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Fig. CH43 Valve timing

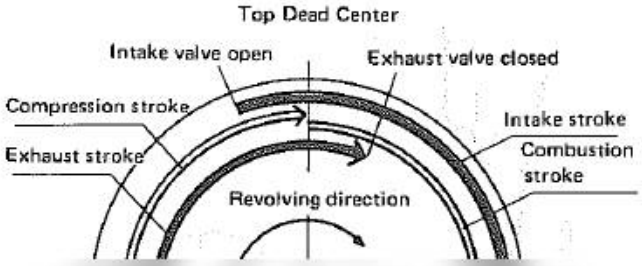
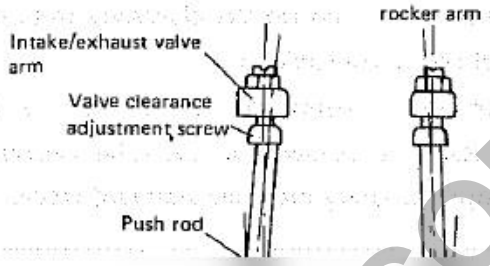


Fig. CH-44 Push rod



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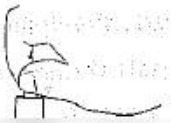
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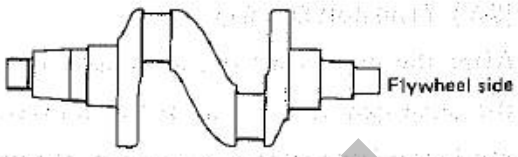
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present and minor, recondition the shaft with emery paper containing steel sand or polishing powder.

Fig. EP-46. Measuring crankshaft



2T90LE



2T72/75HLE



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Measure the spring force with a spring scale; replace the spring when the difference between the standard value and the measured value exceeds ±0.2 kg.

Fig. ES-39. Brush spring inspection



d) Magnetic switch

1. Shunt coil continuity test
   Check for continuity between the S terminal and the magnetic switch body (metal part). No continuity indicates that the coil is open and that the switch must be replaced.



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