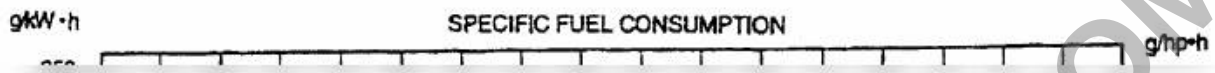
1.3 Performance Curve

1.3.1 6CX-GTE Performance Curve

Note
- This data is measured at crankshaft and show the average performance as tested at our laboratory.
- Conditions for engine performance. Density of fuel: 832kg/m^3 at 15°C,
  Temperature of fuel: 25°C at FO pump inlet,
  Standard atmospheric condition: ISO 3046/1, 1hp ≒ 0.7355kW

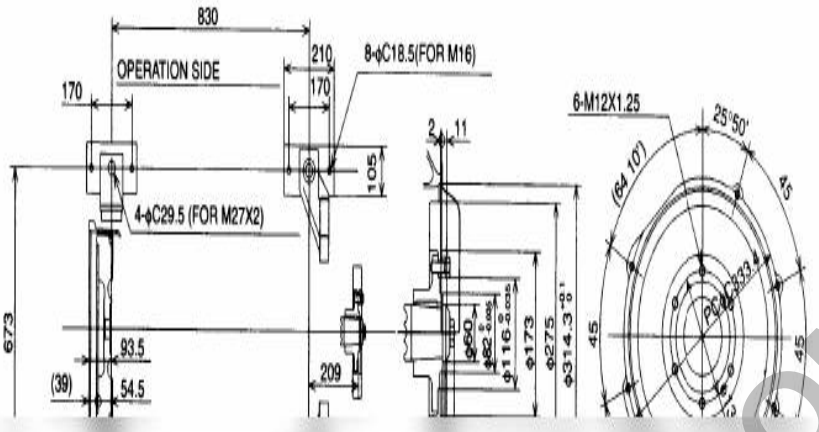


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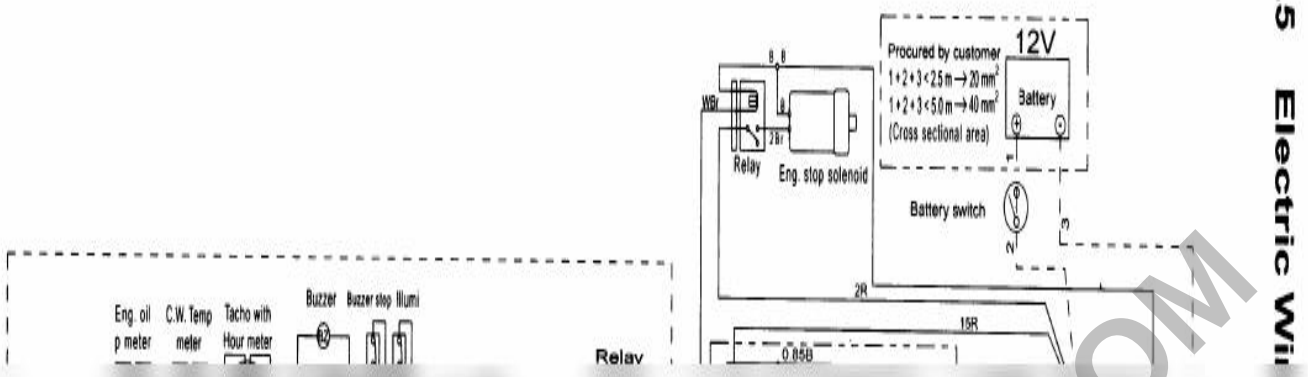
1.4 Dimensions
6CXM-GTE/GTE2



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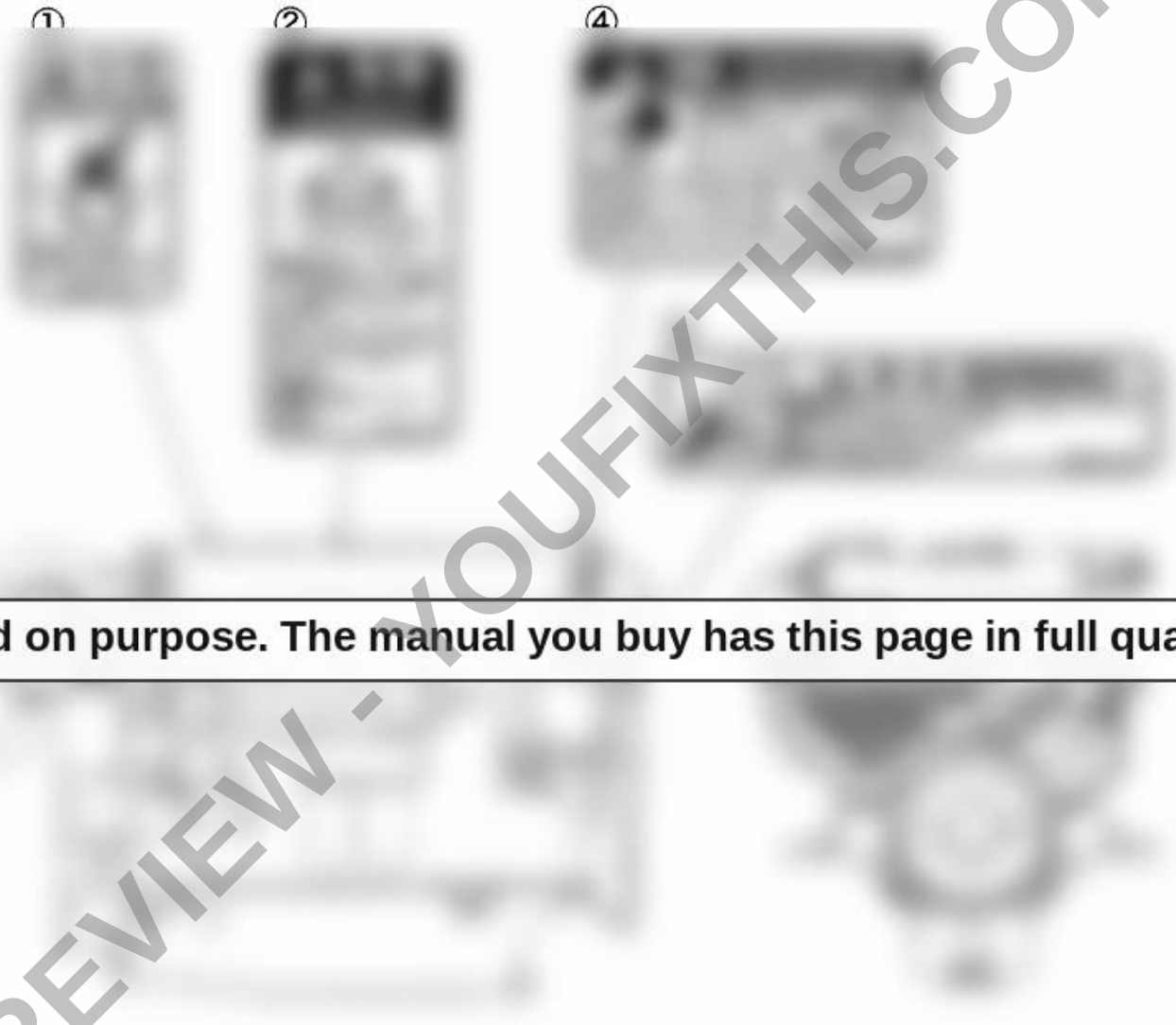
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Location for Product Safety Labels

To insure safe operation, product safety labels have been attached. Their location is shown in the diagram below. Keep the labels from becoming dirty or torn and replace them if they are lost or damaged. Also replace labels when parts are replaced, ordering them in the same way as for the parts.

Product Safety Labels, Parts Code Numbers	
①	128296-07300
②	127692-07240
③	128296-07360
④	128296-07260



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4 Periodic Inspection

○: Check ◎: Replace ●: Adjust

Check item		Daily	every 50hrs.	every 250hrs.	every 500hrs.	1 year or every 1000hrs.	2 year or every 2000hrs.
Fuel Oil System	Check oil level in the tank and resupply	○					
	Drain the tank		○				
	Drain the fuel filter and oil/ water separator		○				
	Replace element of fuel filter			◎ or 1year			
	Check lube oil quantity	○					

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5 Service Standard

5.1 Service Values

(mm)

Names of parts	Item		Nominal(standard) size/ Tolerance		Standard clearance when assembled	Allowable max. clearance (repair limit)	Part service limit (to the standard size)
Cylinder sleeve	Cyl. sleeve inside dia.	L	ϕ110	+0.030 or less +0.020 or more	—	—	+0.15
		M		less than +0.020 +0.010 or more			
		S		less than +0.010 0			

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For Safe Operation

1 Warning Symbols

- Most accidents are caused by negligence of basic safety rules and precautions.
  For accident prevention, it is important to avoid such causes before development to accidents.
  Please read this manual carefully before starting repair or maintenance to fully understand safety precautions and appropriate inspection and maintenance procedures.
  Attempting a repair or maintenance job without sufficient knowledge may cause an unexpected accident.

- It is impossible to cover every possible danger in repair or maintenance in the manual.
  Sufficient consideration for safety is required in addition to the matters marked ⚠CAUTION.
  Especially for safety precautions in a repair or maintenance job not described in this manual, receive instructions from a knowledgeable leader.

- Warning Symbols used in this manual and their meanings are as follows:

⚠ DANGER	**DANGER-indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.**
⚠ WARNING	**WARNING-indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.**
⚠ CAUTION	**CAUTION-indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**

- Any matter marked [NOTICE] in this manual is especially important in servicing. If not observed, the product performance and quality may not be guaranteed.

California Proposition 65 Warning

Diesel engine exhaust and some of its constitutions are known to the State of California to cause cancer, birth defects, and other reproductive harm.

California Proposition 65 Warning

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.
Wash hand after handling

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FOREWORD

This service manual outlines procedures for servicing and maintaining Yanmar 6CXM-GTE/GTE2 engines to obtain maximum life and performance. It explains about the structure, performance, important inspection points, servicing instructions and the wear limit of parts. For a full understanding of this manual, also refer to the Operation Manual and Parts Catalog. Besides reference use at your service shop, this manual can also be used as a text for your service engineers. You should understand the contents of this manual fully to offer accurate and efficient service to your customers.

For accurate and efficient work, the following preparations are necessary:

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No.	Item	Procedure	Tool & Caution	Illustration
25	Fresh water Tank	Install the fresh water tank to the freshwater pump. Tightening torque: 25.5 ± 2 N·m ($2.6^{\pm 0.2}$ kgf·m) Install the stay of the fresh water tank.	12	

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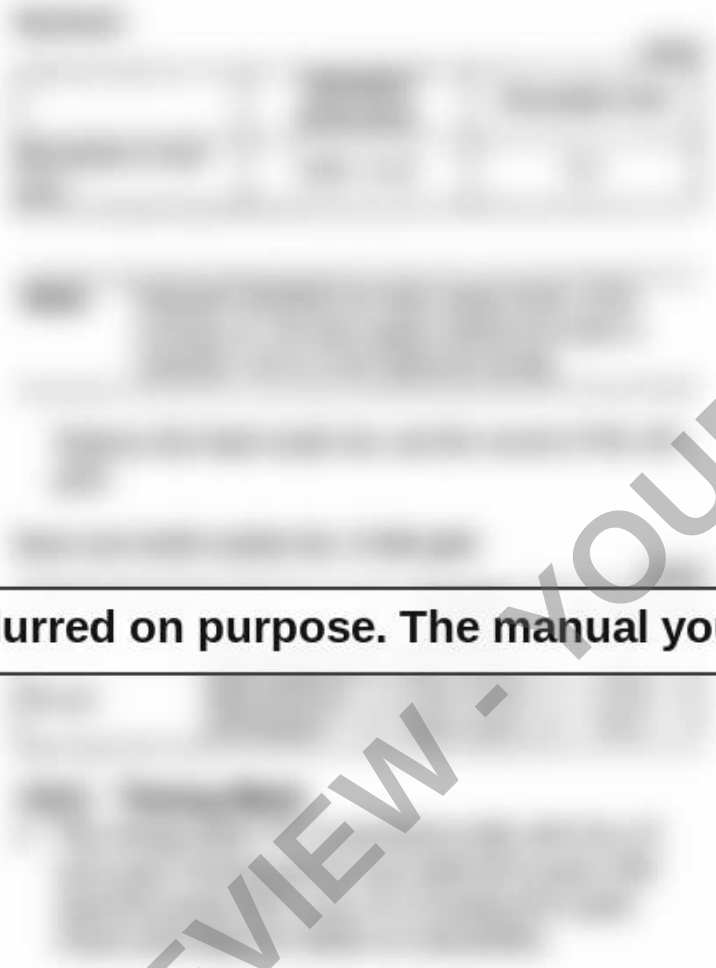
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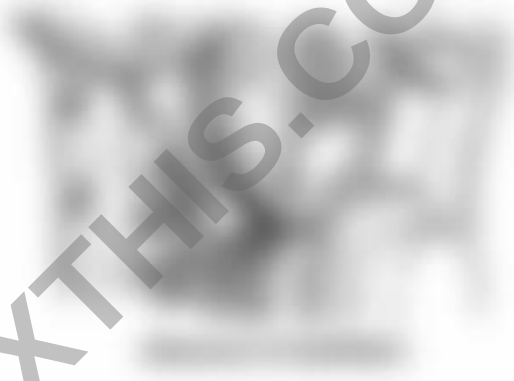
3.8 Timing Gear

The helical gear is used for the timing gear.
The gear teeth are hardened and polished for higher durability and noise.

3.8.1 Inspection of Gears

- Inspect the gear face and tooth flank. If there is flaw or wear, replace the gear.
- Measure the backlash of each gear. If the backlash exceeds the limit, replace the working gears as a set.









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4) Slowly rotate the pump in the normal rotation direction by hand, and measure the plunger lift until fuel flow from the overflow pipe on the measuring device stops.
   Pre-stroke : See separate service data
5) If the measured pre-stroke is not standard, adjust by changing the shim thickness between the flange of the plunger barrel and pump housing.
6) Repeat the above procedure to adjust the pre-stroke of

(4) Plunger pressure test

1) Mount the pressure gauge to the delivery valve holder of the cylinder to be tested.



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