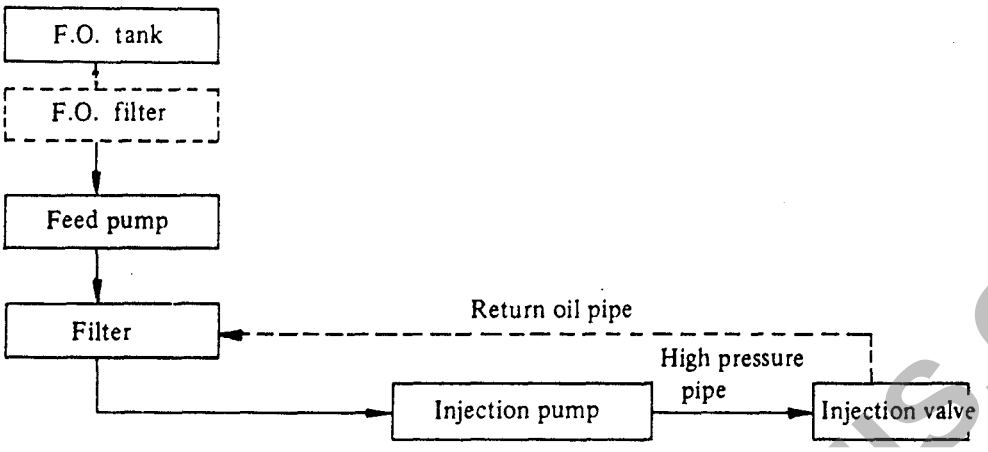
1–3–3. Fuel Diagram



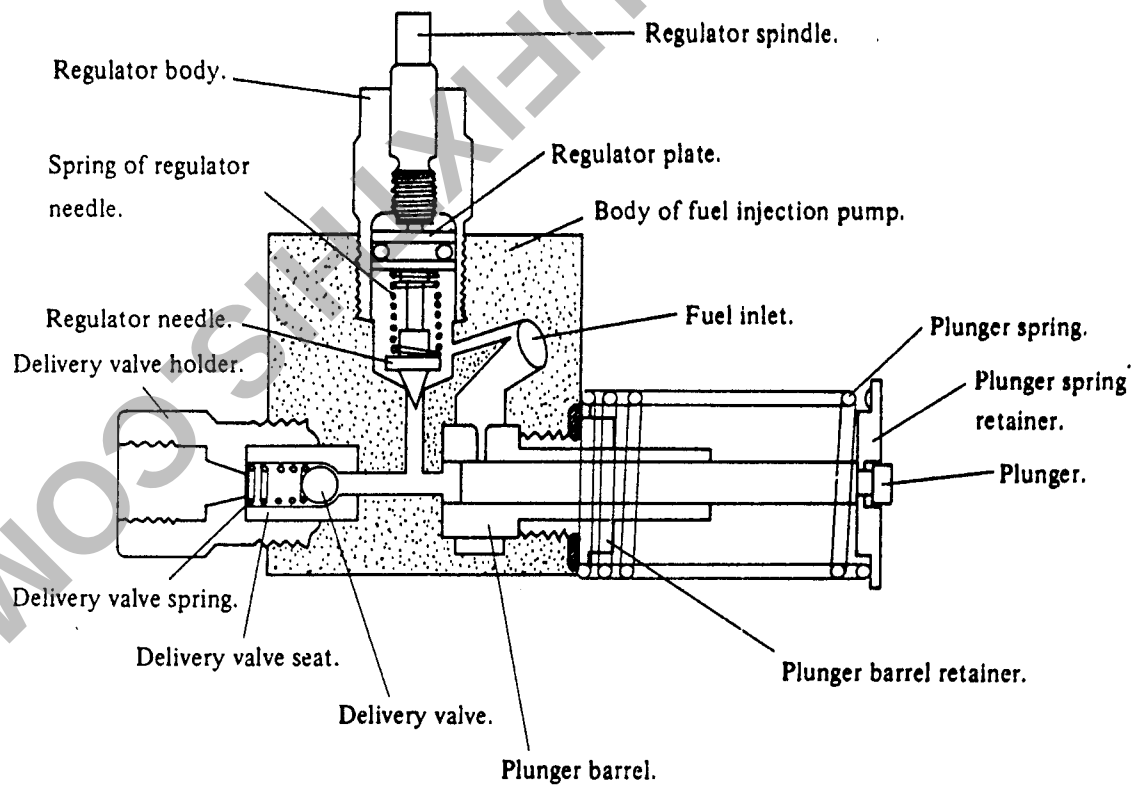
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Item	Procedure	Illustration
3. Thurst shaft coupling.	• Use new lockwasher. • Tighten mounting nut. • Distinguish between inside and outside faces. • Install rear cover of thrus shaft. • Install thrust shaft key. • Install coupling. • After assembly is completed, check for case of rotation of shafts.	

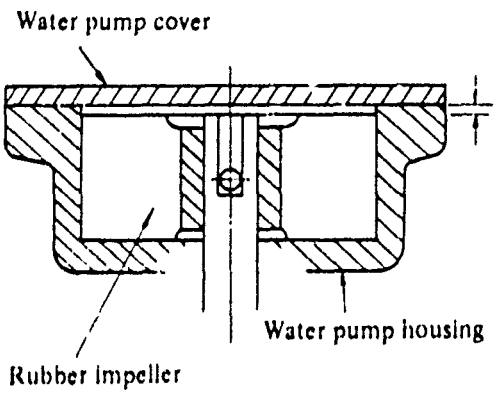
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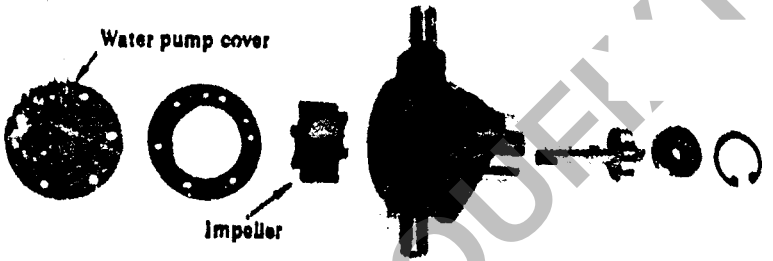
Fuel injection pump

- Tools required: Wrenches (13 mm, 19 mm); off-set wrench (19mm); pallet for parts; kerosene for cleaning.

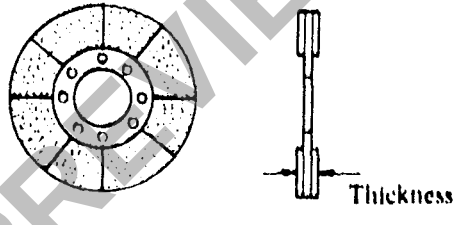


3–3–10. Cooling Water Pump

Measuring position	Remarks	Measuring Instrument
	Clearance between rubber impeller and water pump cover. When the clearance is 0.5 mm or more, replace the impeller.	Thickness gauge Ruler



3–3–11. Friction Disc and Reduction Gears

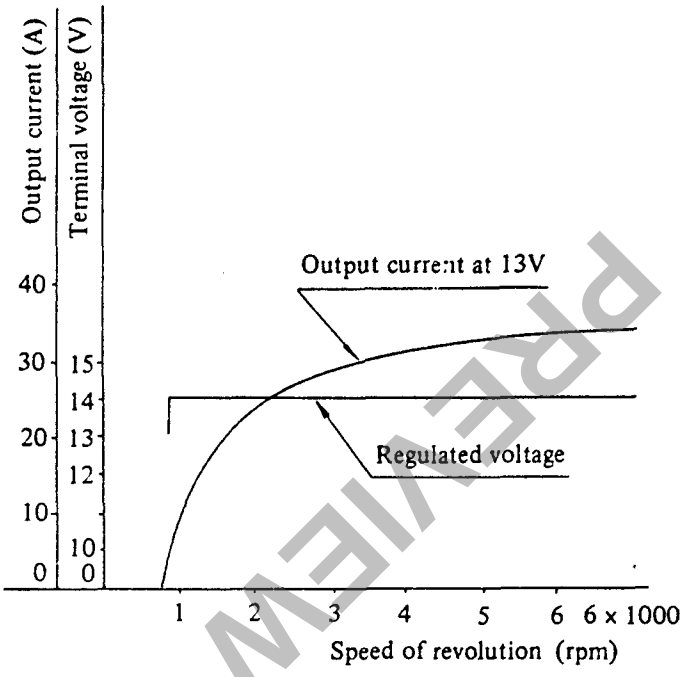
Measuring position	Remarks	Measuring Instruction
	Thickness of friction disc. Nominal size 6 $^{+0.3}_{0}$ mm Limit of use −1.5 mm Check each reduction gear visually for its degree of contact. Refer to Page 65 for disassembly and reassembly of the clutch.	Micrometer or Vernier Caliper

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4. Specifications and servicing standard values

Specification

Model	Generator	LR135-31
	Regulator	TR1Z-28
Rating		Continuous
Battery voltage	(V)	12
Nominal output		12V-35A
Rated speed	(rpm)	5000
Maximum operational speed	(rpm)	6500
Direction of rotation (viewed from pulley side)		clockwise or conter clock wise, applicable for both directions
Voltage regulation	(V)	14.3 ± 0.3 V at 25°C
Standard temperature gradient	(V/°C)	-0.0136
Output current	(A/V/rpm)	32/13/5000
Rev. speed at 13V	(rpm)	1000 or less
Earth polarity		2 wire system
Weight (Kg)	Generator	4.0
	Regulator	



Major data Generator

Resistance (Ω) at 20°C	Stator	114
	Rotor	83.2
	Stator coil (single phase)	0.128
	Rotor coil	3.3
Number of poles		8
Slip ring (mm)	Standard outer dia/Mun. limit	31/30
	Limit of correction/accuracy of correction	0.3/0.05
Pulley	Type of belt/Pulley outer dia.	A type/70
	Ratio	1 step/19

Adjustment specification Generator

(unit: mm)

Strength of brush spring (g)			300 ± 1.5%
Brush	Standard height		14.5
	Minimum limit		7
Shaft	Front side	Standard dimension	15
		Ball bearing	6302 B
	Rear side	Standard dimension	12
		Ball bearing	6201 S-D

5. Malfunction and trouble shooting

(1) No generator output

- Coil (s), ground disconnected; system shorted.
- Non-insulated terminals.
- Diode (s) bad.

(2) Low output

- Rare short in rotor coil.
- Rare short in stator coil.
- One-phase disconnected from stator coil.
- Slip ring dirty or broken.
- Poor contact between brushes and slip rings.
- Diode (s) bad.
- Low rpm.

(3) High output

- Short circuited between A and F terminals, the generator may be shunting generator.

(4) Fluctuating output

- Loose wiring.
- First stage disconnected.
- First interphase stage shorted.
- Brush springs broken or stuck.

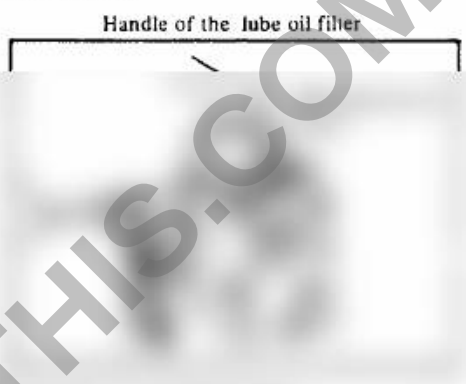
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2. **Starting procedure**

1) Open the fuel cock.

2) Open the kingston cock.

3) Set the speed control lever to HIGH and the clutch lever to NEUTRAL.



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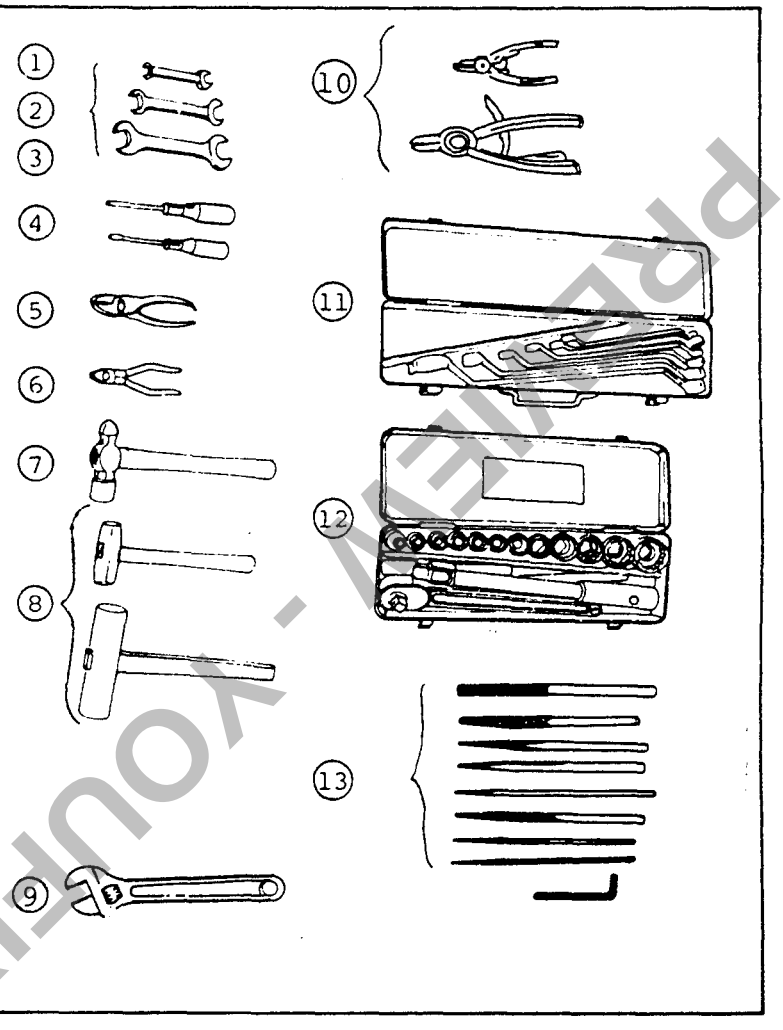
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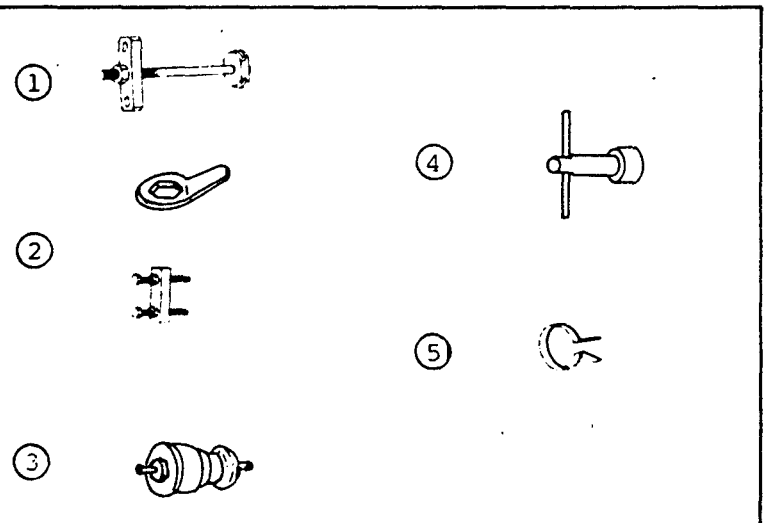
3. ALIGNMENT OF ENGINE

3–1. Tools for Overhaul and Reassembling General tools

General tools:

1	Spanner 10 x 13	YANMAR standard	
2	" 17 x 19		
3	" 22 x 24		
4	Screwdriver		
5	Pliers		
6	Nipper (Diagonal plier		
7	Steel hammer		
8	Wooden or copper hammer		
9	Monkey wrench (Adjustable wrench)	Local supply	
10	Snap ring plier		
11	Offset wrench		
12	Socket wrench		
13	Files		
14	Sand paper		

Special tools

1	Liner extraction implement	YANMAR special order	
2	Flywheel extraction set (Flywheel end nut spanner & replacer)		
3	Main bearing replacer		
4	V-pulley removal tool		
5	Piston ring compressor		

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3–4. Bolts, Nuts and Tightening Torques

Kg/cm

No.	Part	SVE8	SVE12
1	Cylinder head tightening bolt (stud)	M12 x 450	M14 x 450
2	Cylinder head tightening nut	12 x 970	14 x 1365
3	Gear case mounting	6 x 80	6 x 80
4	Side case mounting	8 x 200	8 x 200
5	Jacket cover mounting	8 x 200	10 x 430

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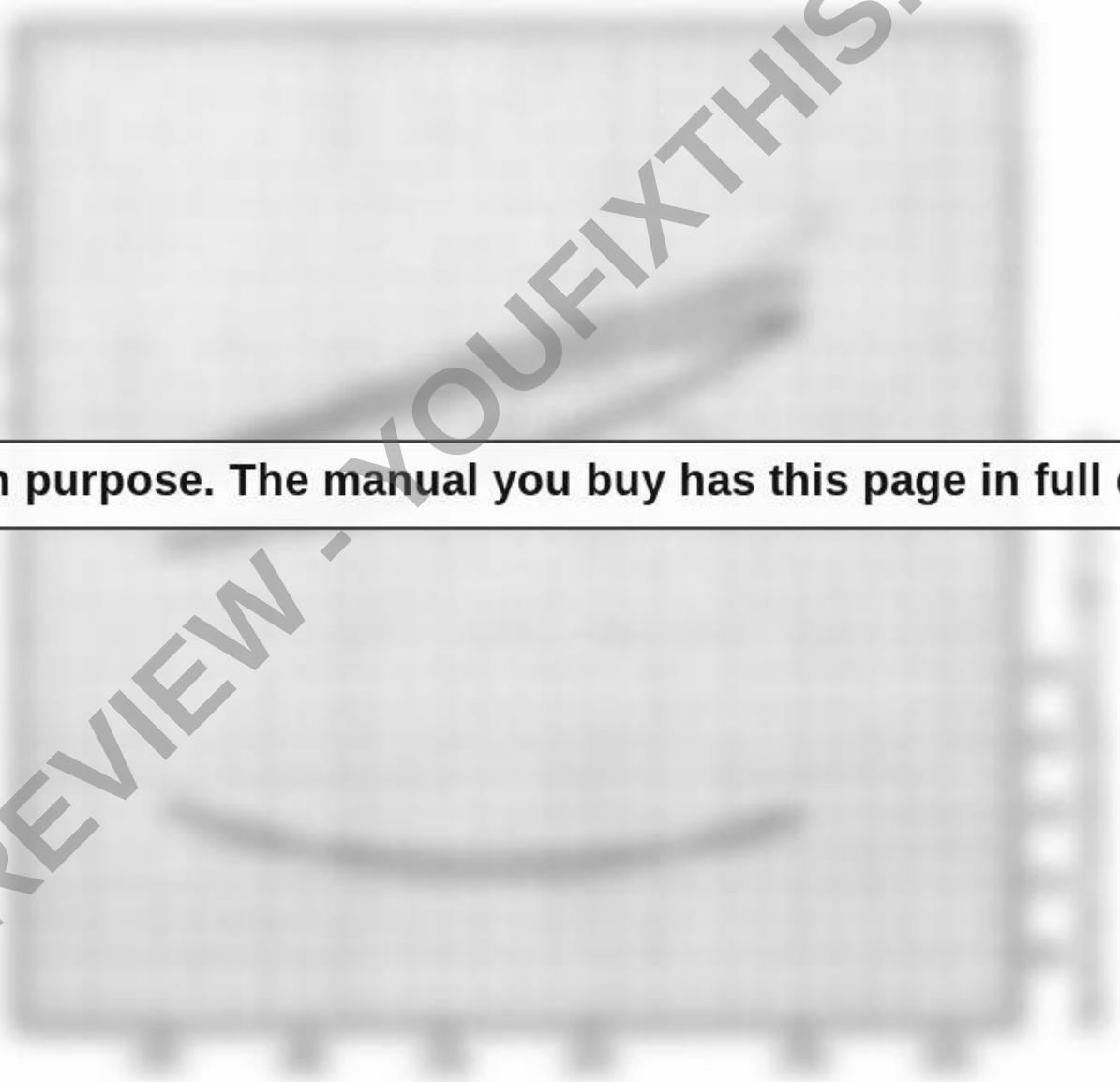
1–2. Performance Curves

Model SVE8(G)

1 Continuous output "B" DIN 6270

2 Continuous output "A" DIN 6270

3 Propeller power



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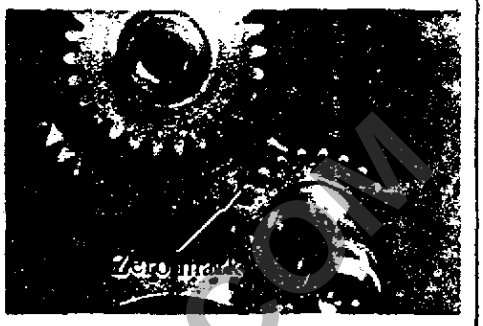
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Item	Procedure	Illustration

9. Crank gear	• Mount the crank gear.
	  • Align "0" mark with that of the cam gear.
	  • "0" mark is not provided for alignment with the L.O. pump drive gear.
	• Tighten crank gear clamping nuts.
	• Mark to distinguish between both sides of the nuts.
		

10. Governor.	• Attach governor weight assembly. • Attach governor sleeve.	

11. Gear case.	• Assemble gear case.
	  • Make sure governor lever is in correct position.
	  • Oil seals should be in good condition.
	  • Use paper gaskets.
	• Check rotation of flywheel.
	• Attach starter shaft.
	• Install key in PTO shaft.
	• Install V-belt pulley on PTO shaft.	

12. Fuel injection pump.	• Install fuel injection pump mount.
	  • Insert roller guides in proper position.
	  • Do not forget the injection timing adjustment shims.
	• Install fuel injection pump.
	  • Use paper gasket.
	  • Install plunger, spring, and washer, properly.
	  • Attach pump adjustment lever to connecting screw, properly.	

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