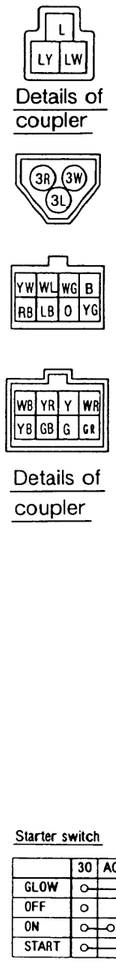
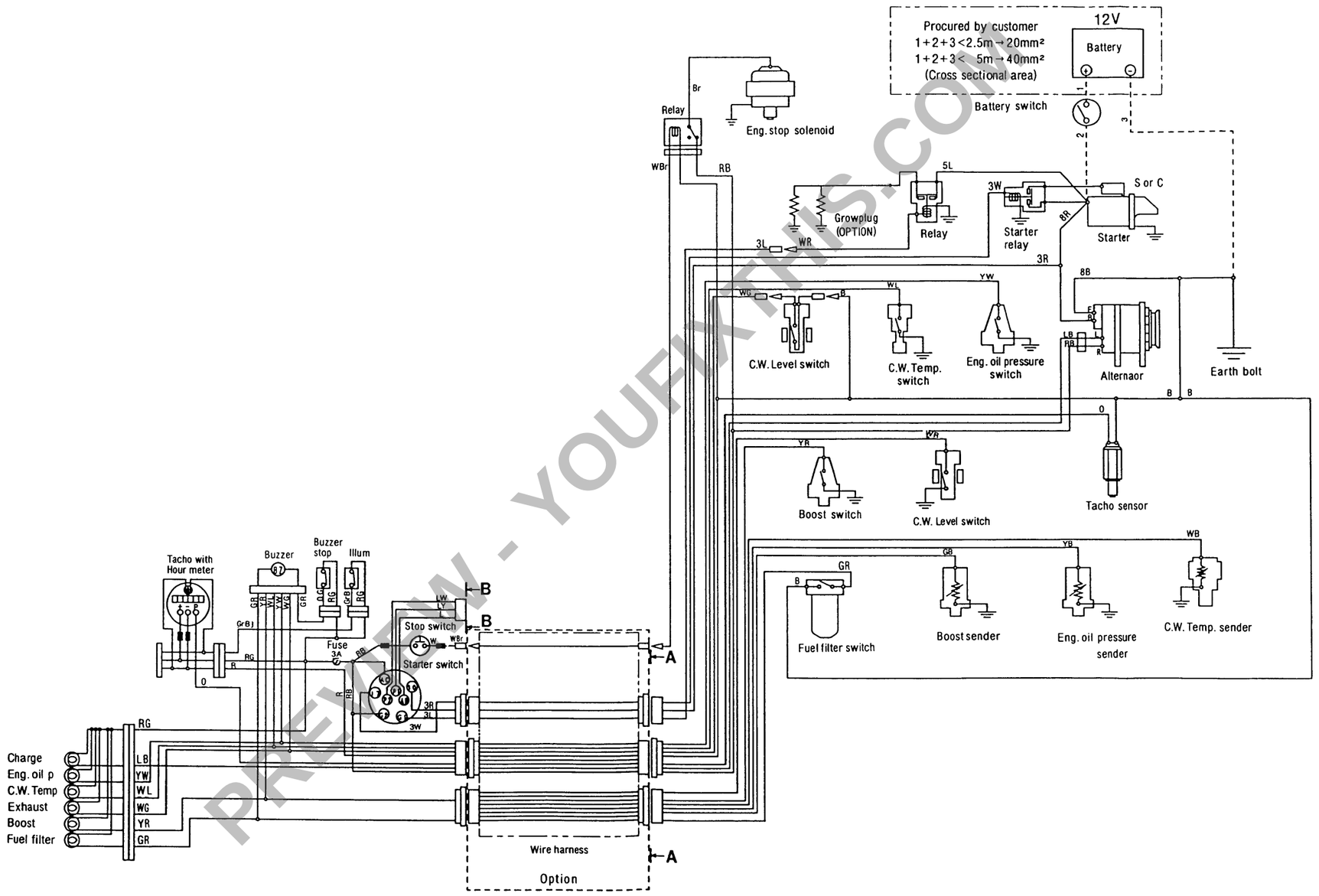
5. Wiring Diagrams

(1) New B-type Instrument panel

(Color coding)

R	Red
B	Black
W	White
Y	Yellow
L	Blue
G	Green
O	Orange
Lg	Light green
Lb	Light blue
Br	Brown
P	Pink
Gr	Gray
Pu	Purple





Instrument panel

Starter switch

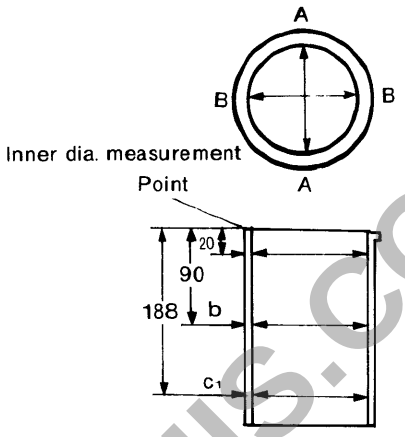
	30	AC	17	G1	G2	P1	P2	AR
GLOW	○			○		○	○	○
OFF	○					○	○	○
ON	○	○					○	○
START	○		○		○		○	○

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2. Cylinder Sleeve

2-1. Cylinder Sleeve

The rigidity of the cylinder sleeve is increased by employing a dry type sleeve.
The wear resistance of the cylinder sleeve is also increased by employing new material.



2-2. Measurement of sleeve

Measure the inner diameter of each cylinder sleeve using a cylinder gauge. If the inner diameter exceeds the limit specified in the table below, replace the sleeve.

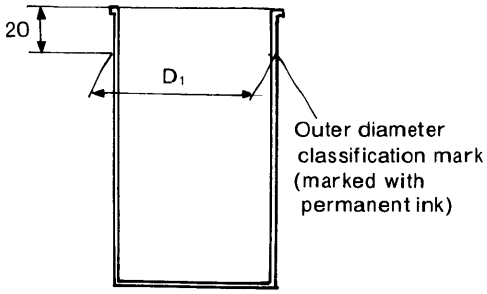
mm

		Nominal dimension	Limit dimension
Inner diameter of cylinder sleeve	L	ϕ100.020~ϕ100.030	ϕ100.050
	M	ϕ100.010~ϕ100.019	
	S	ϕ100.000~ϕ100.009	
Circularity of cylinder sleeve		Less than 0.03	——
Cylindricity of cylinder sleeve		Less than 0.02	——

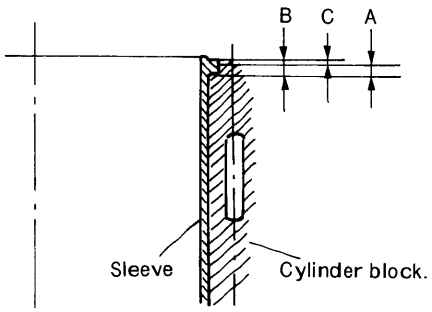
NOTE: Be sure to measure inner diameter of cylinder sleeve at points "a", " b", and "c" in directions "A" and "B"

2-3. Insertion of cylinder sleeve

Classification of cylinder sleeve outer dia.	Outer diameter classification mark A,B,C at position 20mm below top
Classification of cylinder block	Block identification mark A,B, and C on top surface of block operating side



Block inner dia.		Combination	Sleeve outer dia.	
Dimension Tolerance ϕ103		Clearance: 10~30μ	Dimension	
Mark	Tolerance		Mark	Tolerance
A	+0.030 +0.020		A	+0.010 0
B	+0.020 +0.010		B	0 −0.010
C	+0.010 0		C	−0.010 −0.020



2-4. Measurement of projection

Check that the flange of each cylinder is slightly projecting from the top of the cylinder block.

mm

Cylinder block hole depth : A	4.960~5.000
Cylinder sleeve flange thickness : B	5.025~5.050
Cylinder sleeve projection : C	0.025~0.09

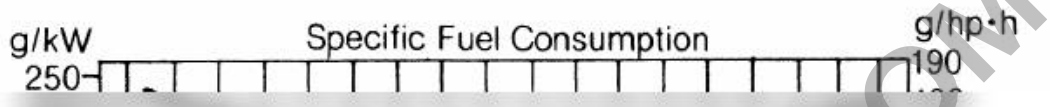
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3. Performance Curves

〔6LYA-UTE〕



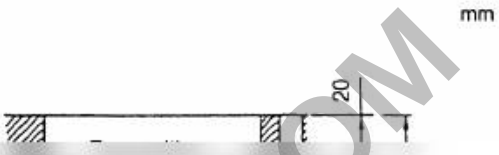
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1-5 Cylinder bore measurement

Measure the bore diameter with a cylinder gauge at the positions shown in the figure.
Replace the cylinder bore when the measured value exceeds the wear limit. Measurement must be done at least at 3 positions as shown in the figure, namely, top, middle and bottom positions in both directions along the crankshaft rotation and crankshaft center lines.



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CHAPTER 2

INSPECTION AND SERVICING OF BASIC ENGINE PARTS

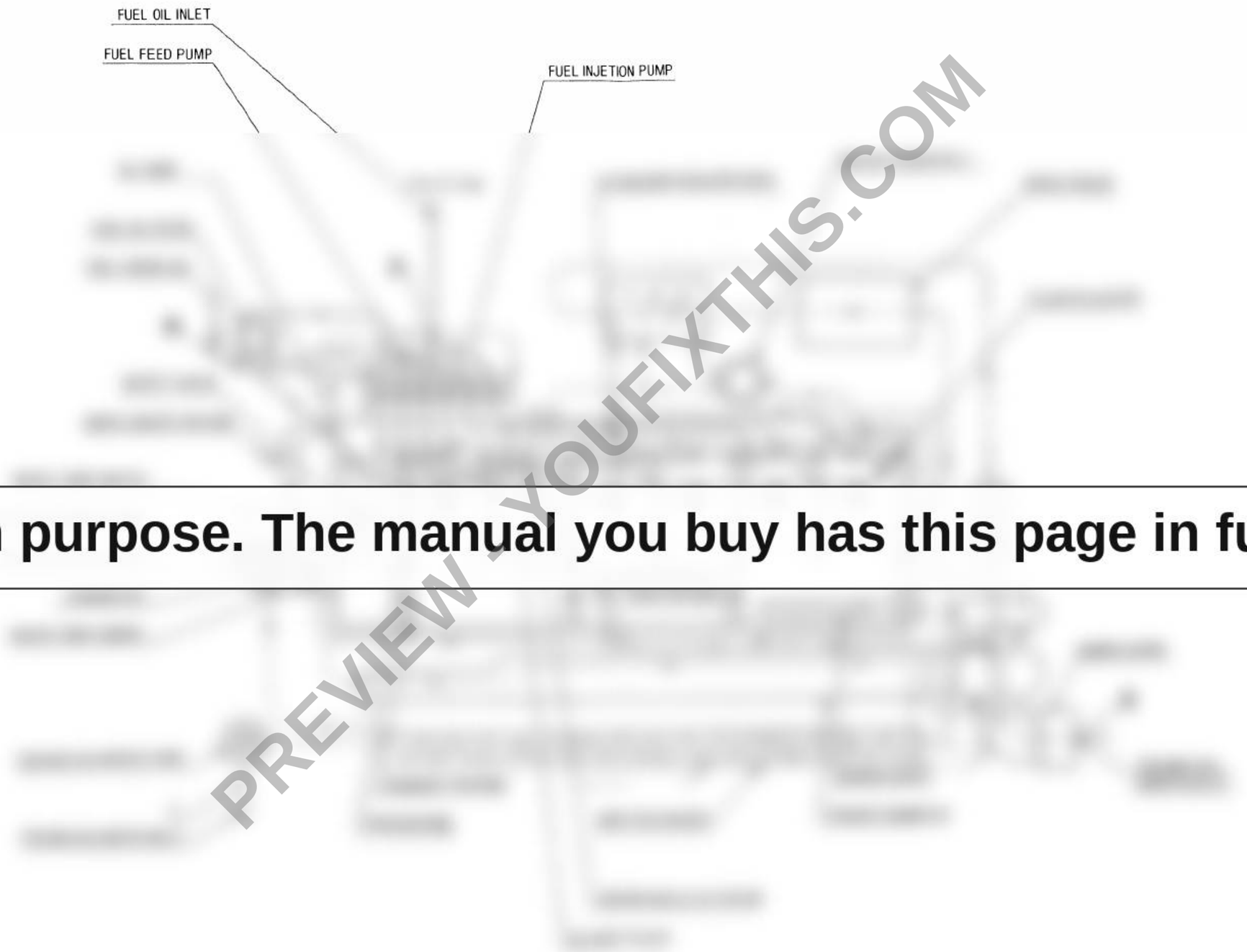
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6. Piping Diagrams



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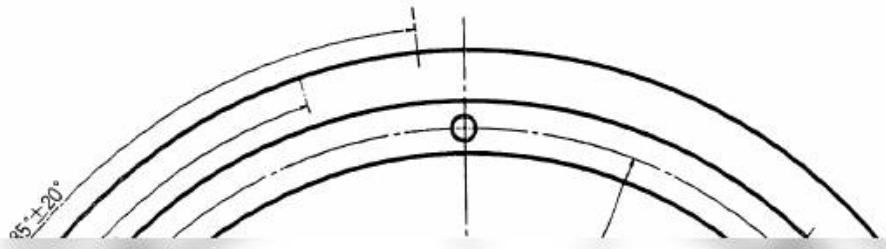
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9-2 Dimensions of flywheel and mounting flange



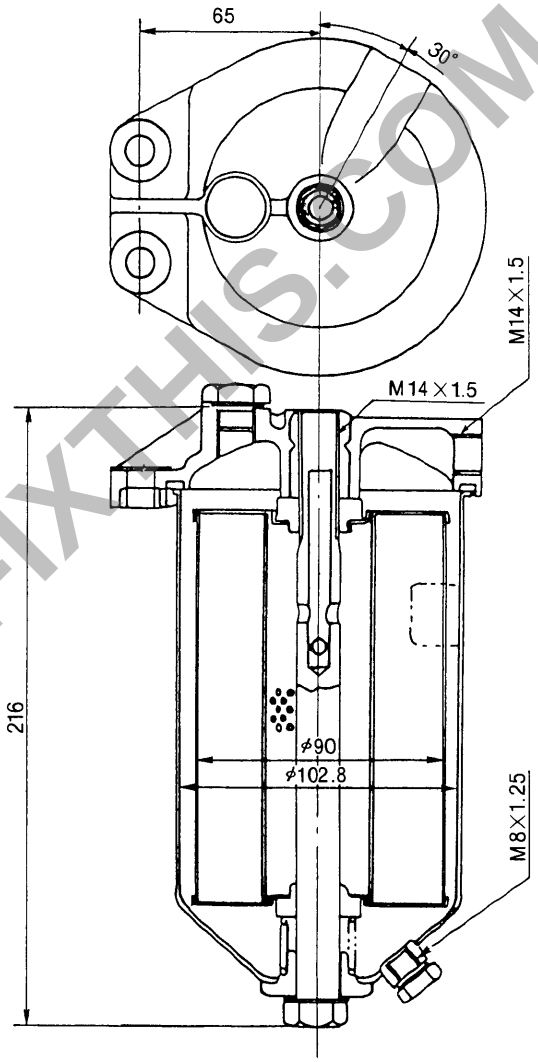
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11. Fuel Filter

The fuel filter is installed between the fuel feed pump and fuel injection pump, and removes dirt/foreign matter from the fuel pumped from the fuel tank.
The fuel filter element must be changed periodically. The fuel pumped by the fuel feed pump goes around the element, is fed through the pores in the filter and discharged from the center of the cover. Dirt and foreign matter in the fuel are deposited in the element.



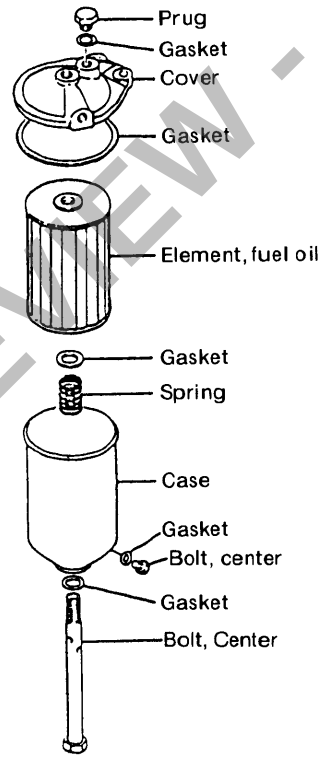
11-1 Fuel filter specifications

Filtering method	filter paper Element
Filtering area	4,000 cm²
Element	Max 45 μ, Ave. 35 μ

11-2 Fuel filter inspection

The fuel strainer must be cleaned occasionally. If there is water or foreign matter in the strainer bowl, disassemble the strainer and wash with clean fuel oil to completely remove foreign matter. Replace the element every 300 hours of operation.
Replace the filter prior to this if the filter is very dirty, deformed or damaged.

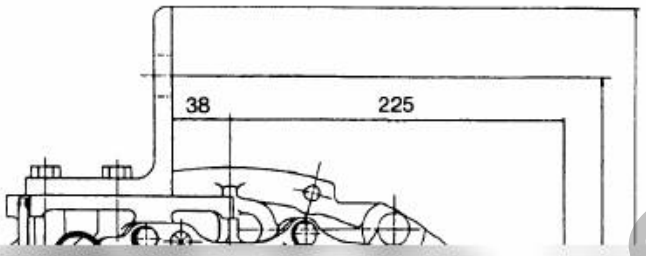
Element changes	every 300 hours

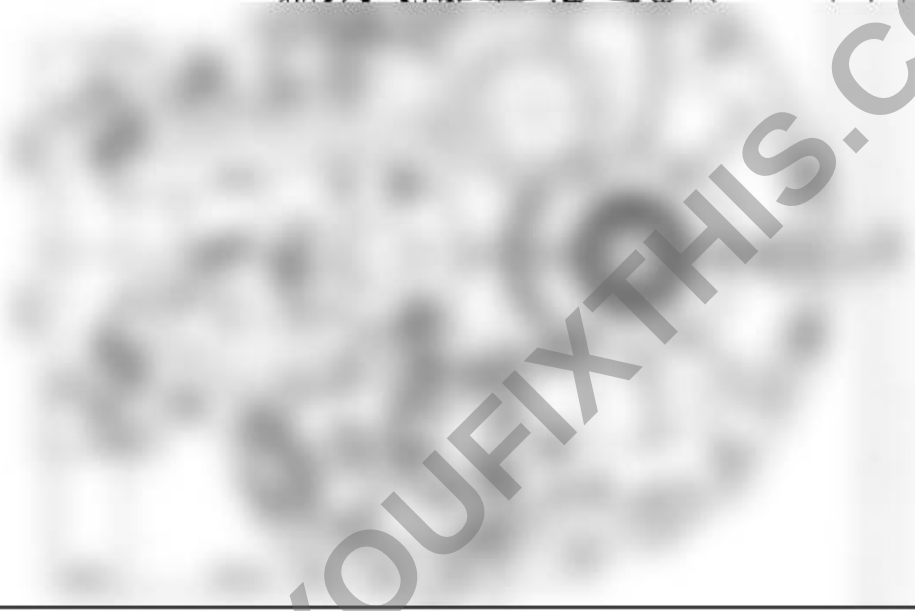


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1-1.3. Sectional View





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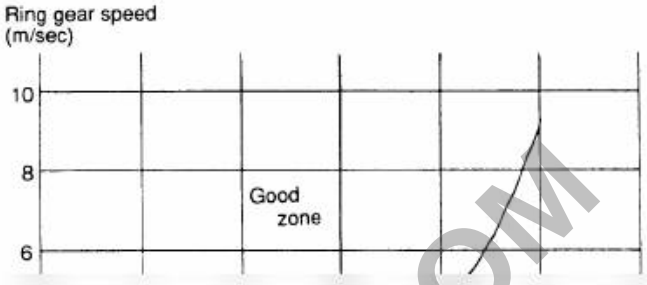
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7. Tachometer

7-1 Construction of tachometer

The tachometer indicates the number of revolutions per minute by means of an electrical input signal which is generated as a pulse signal from the magnetic pickup sensor (MPU sensor).
The function of the sensor is to convert the rotary motion into an electrical signal by means of counting the number

(2) Sensitivity limit of sender unit



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