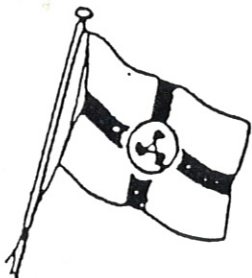




Homologation N°482 Yamaha 50H has been extended to 31st December 2028.



ORIGINAL



Union Internationale Motonautique

Monte Carlo,

Outboard Engine Homologation Sheet No.

00482

International homologation effective from

Homologation valid for the following classes

Manufacturer .. YAMAHA MOTOR CO., LTD

Engine model 50 H

Number manufactured 1500 At the date ..30 /SEP/ 1995

Certified by the National Authority of *Japan*

At the date Signature *[Signature]*

Certified by the U I M *March 22, 1996* At the date

Responsible U I M Homologation Group: Signature *[Signature]*

Change specified on page No. Approved at the date. Signature.

00482

ORIGINAL

1.(-12)

Homologation No. Engine model : YAMAHA 50H

Photo of the complete engine,
taken 45° from the front side.



Photo of the complete engine,
taken 45° from the rear side.



Photo of optional styling,
taken 45° from the front side.



Photo of optional styling,
taken 45° from the rear side.



Homologation No. 00482

ORIGINAL

1-b. (-12)

Engine model : YAMAHA 50H

Photo of the complete engine,
taken 45° from the front side.



Photo of the complete engine,
taken 45° from the rear side.



Photo of optional styling,
taken 45° from the front side.



Photo of optional styling,
taken 45° from the rear side.



Homologation No. 00482... ORIGINAL Engine model : YAMAHA 50H

2. (-12)

Photo without top cover,
taken 45° from the front side.

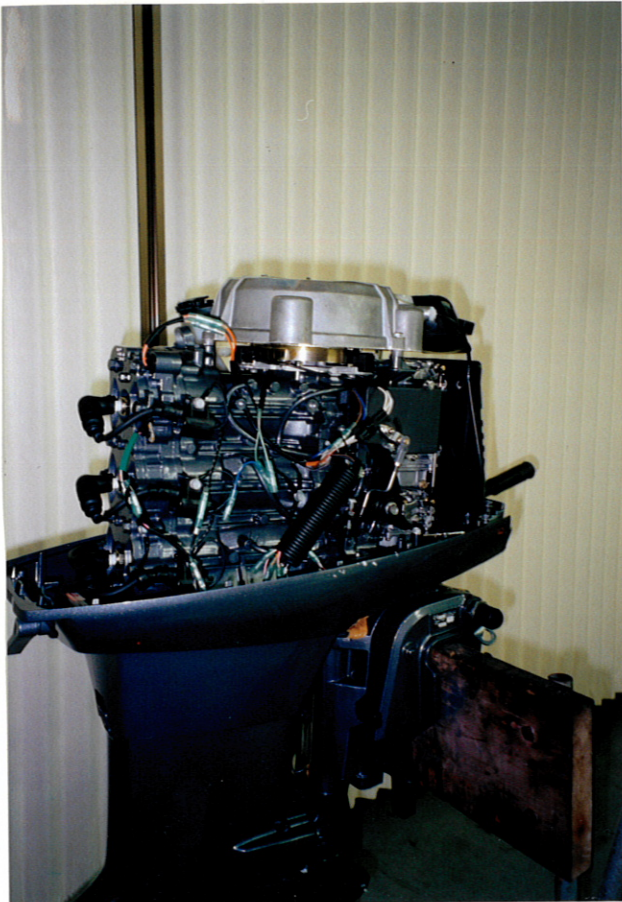


Photo without top cover,
taken 45° from the rear side.



Photo of the cylinder block,
from the crank case side
showing the transfer ports.

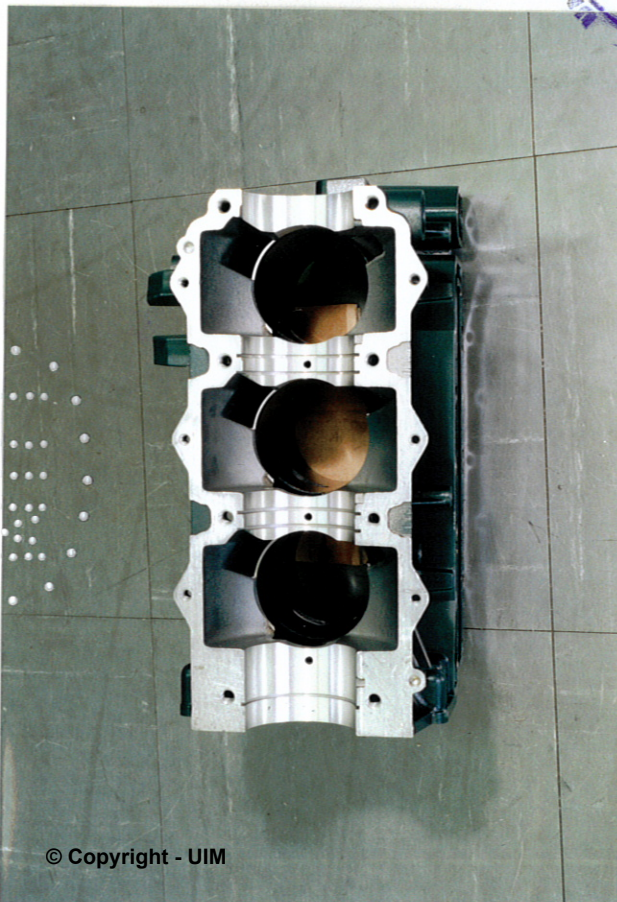
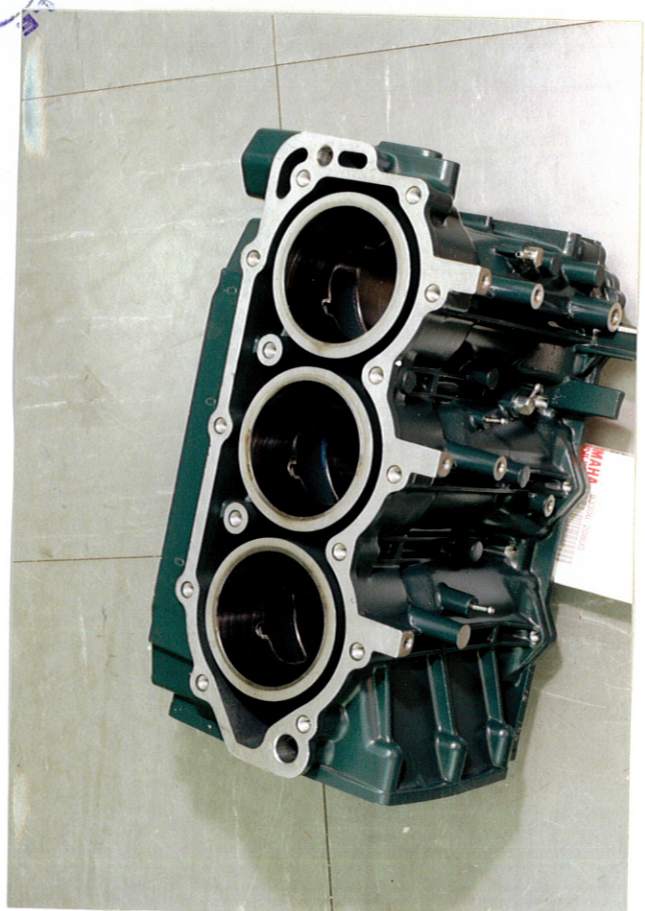


Photo of the cylinder block
from the cylinder head flanch
showing the exhaust ports.



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ORIGINAL

3. (-12)

Homologation No. Engine model : YAMAHA 50H

Photo of the cylinder block,
showing the exhaust manifold.

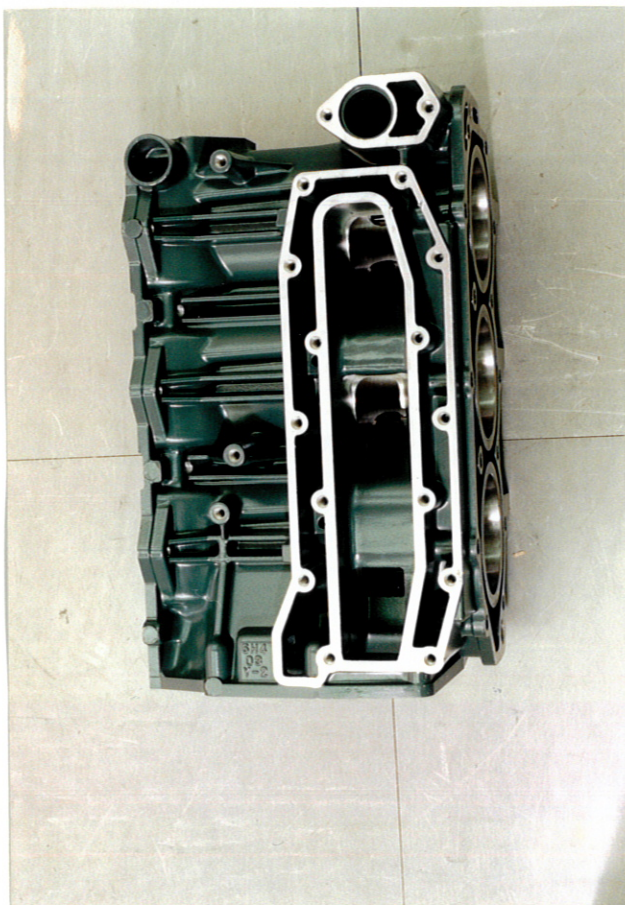


Photo of the crank shaft
with connecting rods.

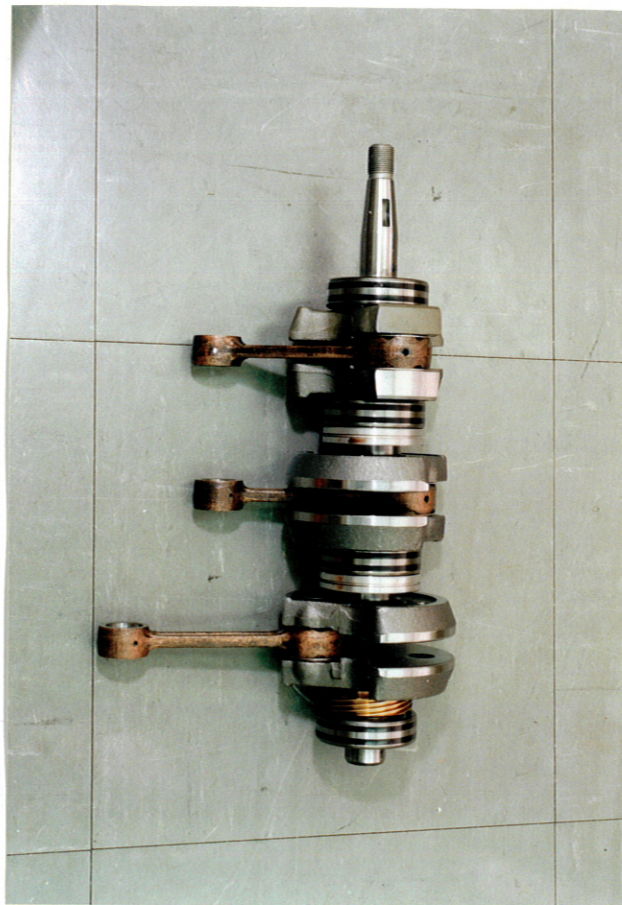


Photo of the piston, taken 45 °
from the gudgeon pin at the
exhaust side.



Photo of the piston, taken 45 °
from the gudgeon pin at the
main boost port side.



Homologation No.

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ORIGINAL

4-a(-12)

Engine model YAMAHA 50H

Photo of the piston from the inside.

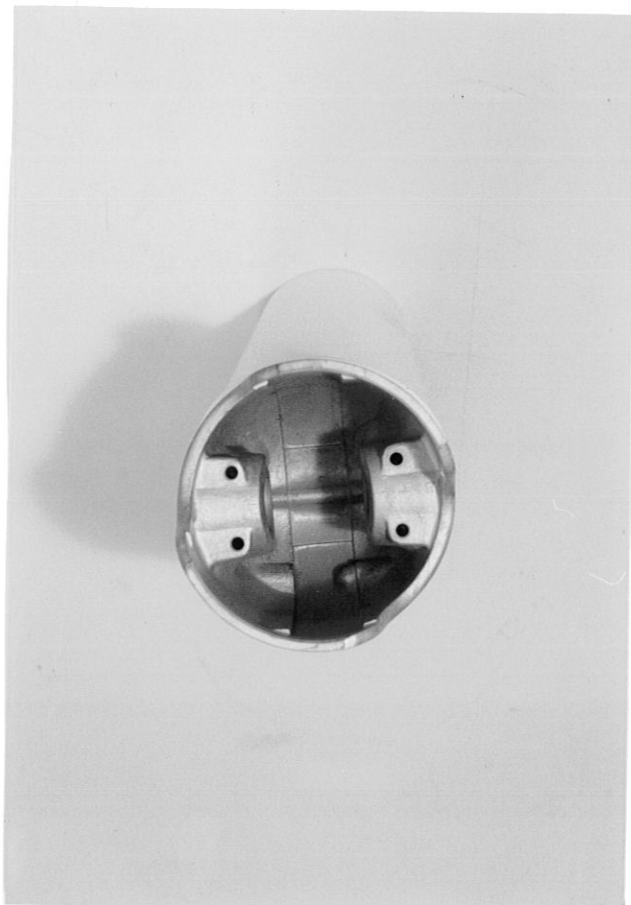


Photo of the combustion chamber.

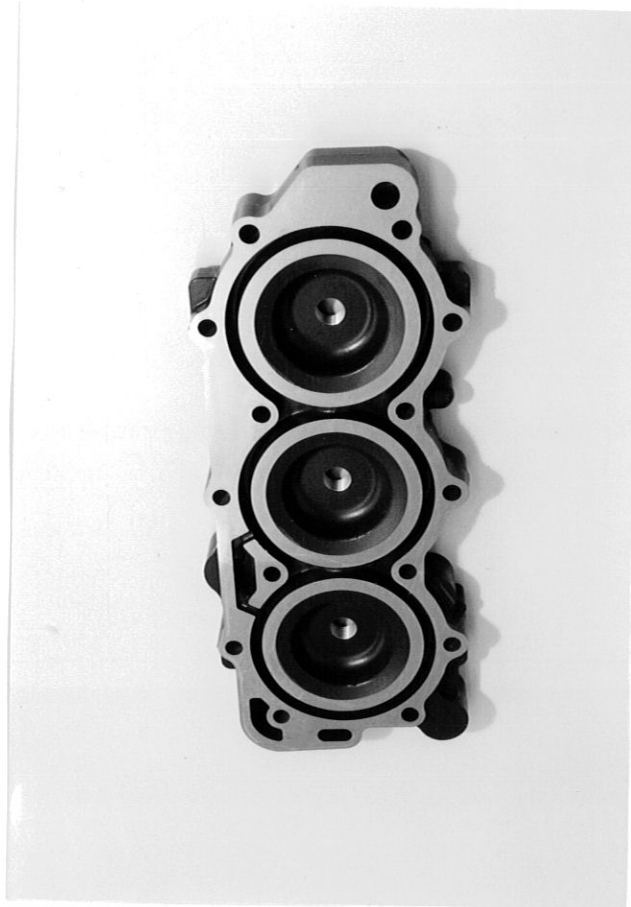


Photo of the air intakes of the intake silencer.



Photo of the internal exhaust pipe.

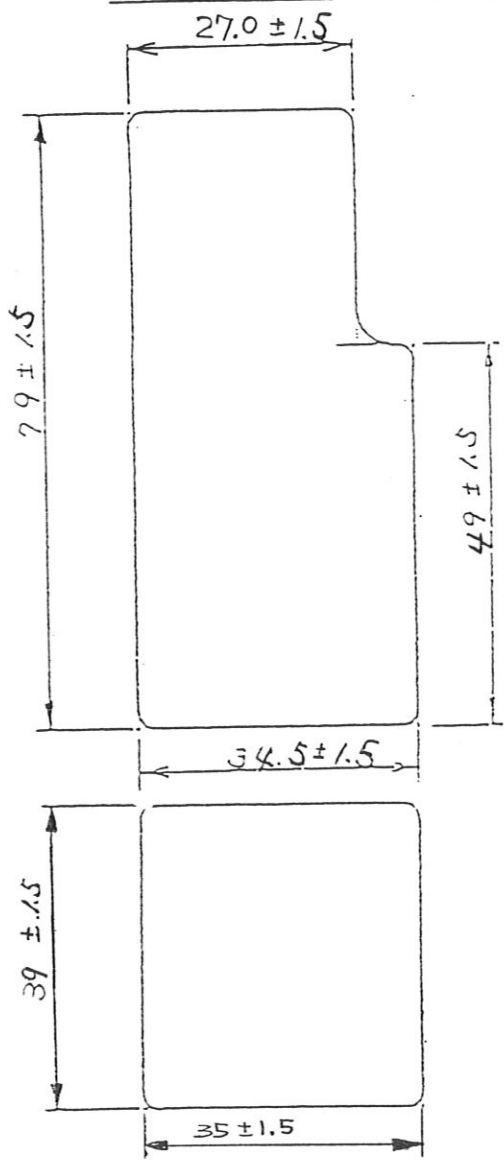


ORIGINAL 00482



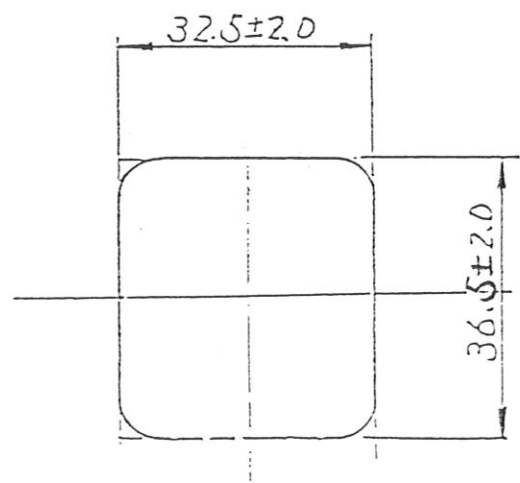
4-b(-12)
YAMAHA 50H

SIZE OF INLET OF AIR INTAKE SILENCER

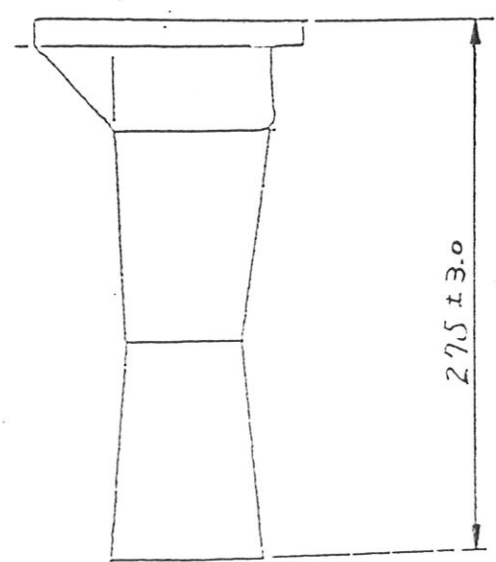


SIZE OF EXHAUST PIPE

OUT LET



LENTE



ORIGINAL 00482

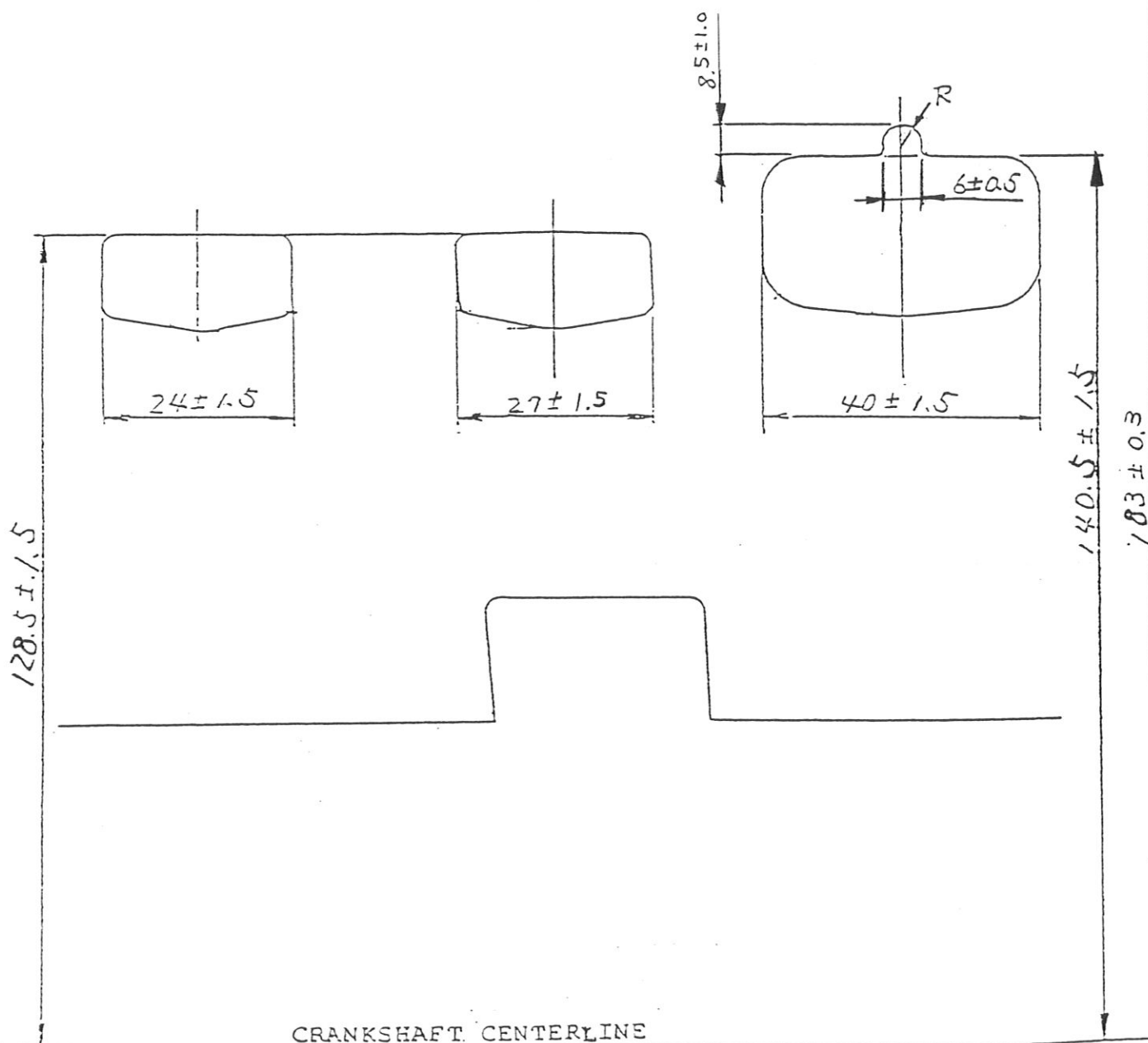


5.(-12)
YAMAHA 50H

Spread-out sketch of the cylinder-wall with location and dimension measurements of the scavenging ports noted.

Note: Port width dimensions are chordal measurement.

UPPER SURFACE CYLINDER HEAD

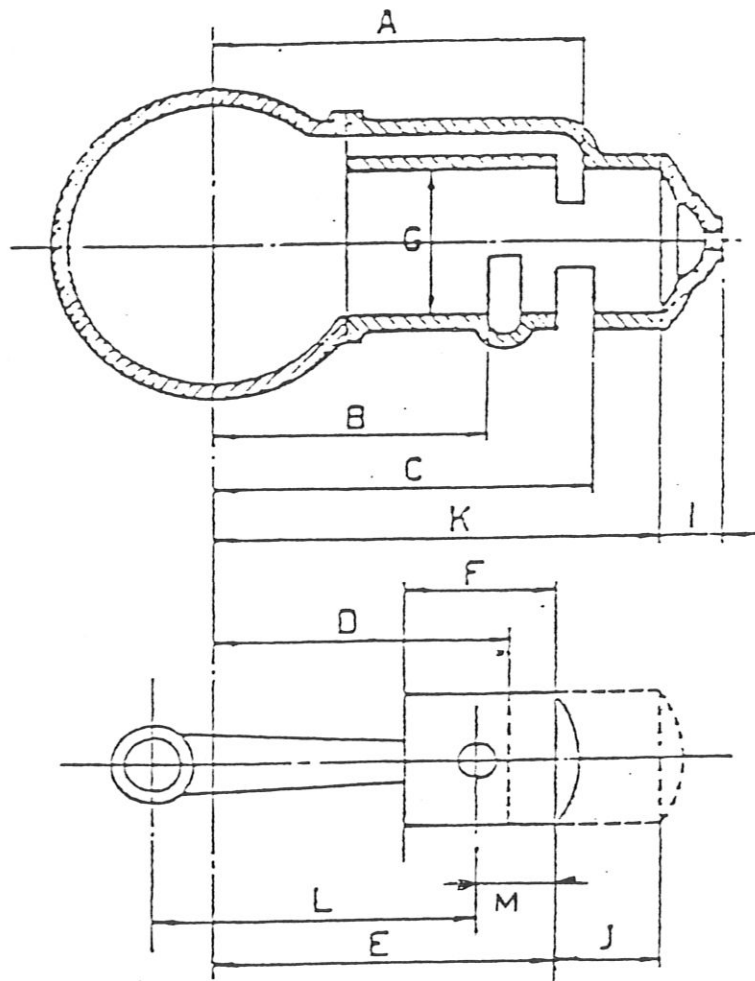


2-stroke outboard engine

ORIGINAL
00482



6.(-12)



00482

ORIGINAL

7 (-12)

Homologation Manufacturer . YAMAHA

Model 50H

Cycle. 2 STROKE

Number of cylinders . . 3.

Cylinder arrangement . IN LINE

		Tolerances		
E N G I N E	G Bore	± 0.1	mm	67
	J Stroke	± 0.2	mm	66
	Capacity per cylinder	nominal	cm ³	233
	Total cylinder capacity	nominal	cm ³	698
	Material of cylinder block			ALUMINUM CASTING
	Material of sleeves			CAST IRON
	Material of cylinder head			ALUMINUM CASTING
	Volume of combustion chamber	minim.	cm ³	29.5
	Combustion chamber minim. volum measured on the engine with the spark plug hole completely <i>filled</i> .			
	Material of piston.			ALUMINUM CASTING
	Number of rings			2
	Ring type and height : 2pcs half keystone . . .	-0.2	mm	2.0
	A Distance from crankshaft centreline of top edge of transfer ports	± 1.5	mm	128.5
	B Distance from crankshaft centreline to lower edge of inlet ports	\pm	mm	NO INLET PORT
	C Distance from crankshaft centreline to top edge of exhaust ports	± 1.5	mm	140.5
	F Hight of piston (less baffle = at port opening corner.)	± 1.0	mm	70
	K Distance from crankshaft centreline to top face of block at centreline of cylinders. . . .	± 0.3	mm	183
	L From big end centreline to crosshead end centreline of connecting rod.	± 0.2	mm	116
	M Distance from the gudgeon pin centreline to the top of the piston (= port opening corner) . . .	± 0.3	mm	34
	Number and size of inlet ports 1.0 from cylinder wall	\pm	mm	NO INLET PORT
	Number and size of exhaust ports 1.0 from cylinder wall	± 1.5	mm	1/1CYL 40
	Number and size of transfer ports 1.0 from cylinder wall	± 1.5 ± 1.5	mm mm	3/1CYL. 27 X 2 pcs 24 X 1 pc
see sketch on page 5				

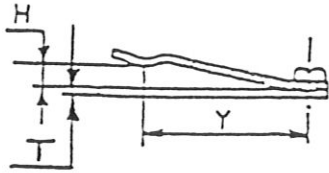
00.4 82

ORIGINAL

8.(-12)

Homologation No.

Engine model : YAMAHA



P
V

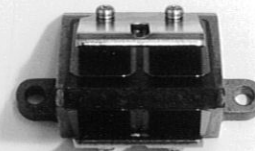


Photo of the complete
rotary valve arrangement

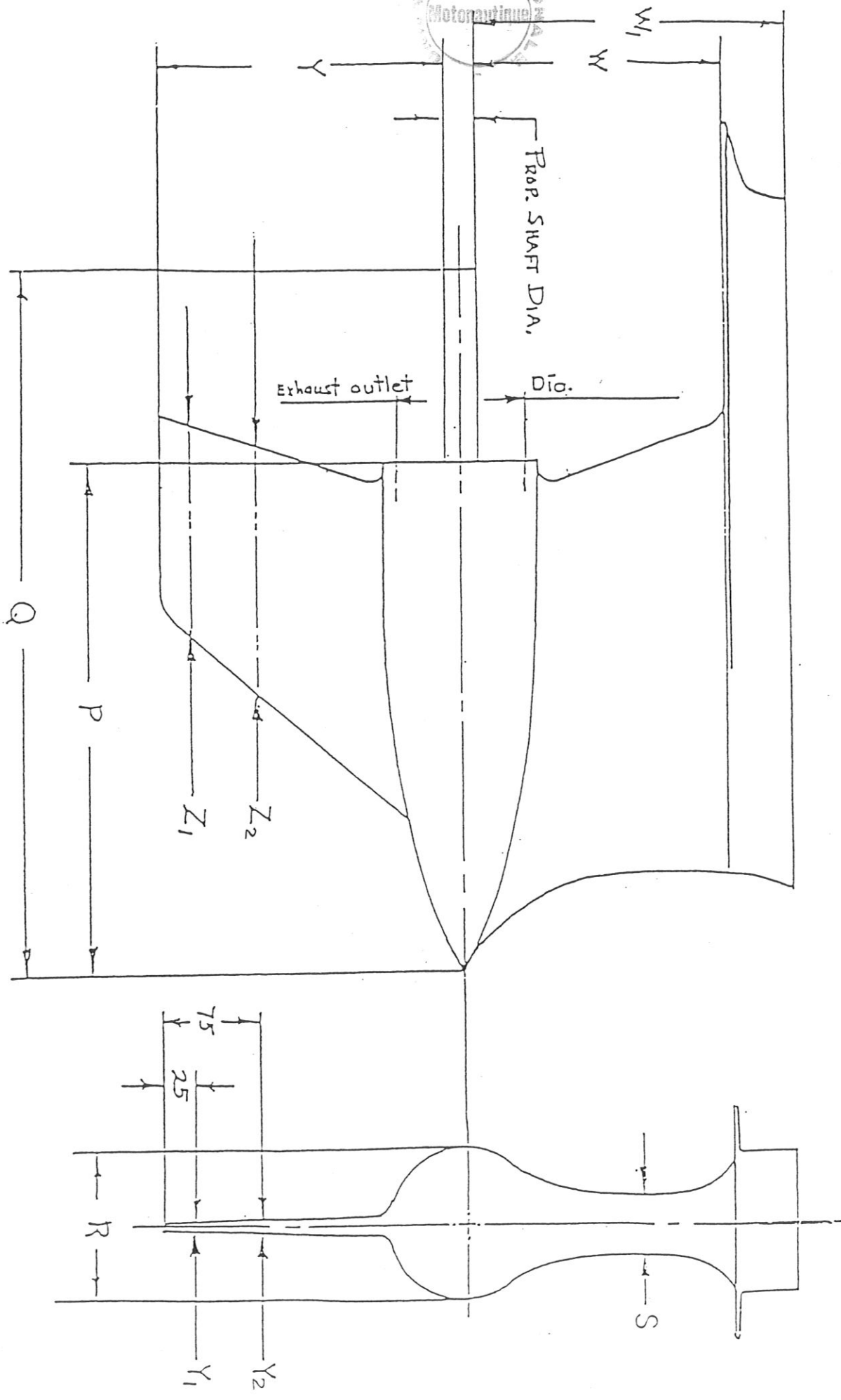
Homologation

Manufacturer . . . YAMAHA . . .

Model 50H

		Tolerances		
Reed valve	T Reed thickness	± 0.1	mm	0.2
	B Lift	± 0.5	mm	6.0
	Reed Material			SPECIAL STEEL
	Y Checking distance	± 1.0	mm	34
	Number and size of inlet ports			4/1 SET
	Reed valve design, see photo on page 8 (Rubber coated reed housing)	± 1.0		30 X 15/4
Rotary valve	d Diameter of disc	\pm		---
	Valve opening time before TDC	\pm °		---
	Valve closing time after TDC	\pm °		---
	Dimension of intake opening in cylinder block or crankcase.	\pm	mm	---
	Rotary valve design, see photo on page 8			---
	valve Material.			---
Weight	Piston with rings, wrist pin and fastenings	minim.	gr	296
	Connecting rod with bearing in both ends and thrust washers.	minim.	gr	NOT POSSIBLE TO MEASURE
	Flywheel with roating attachments	minim.	gr	3730
	Complete crankshaft with seals, bottom bearing. . . . top bearing and centre main bearings.	minim.	gr	7410
Carburettors	Number fitted			3
	Type			BCP 32-26
	Total number of venturis			3
	Diameter of Venturies	± 0.5	mm	26
	Diameter of Throttle Housing at butterfly	± 0.5	mm	32
	Airintake silencer standard equipment dimension marked on page 4			Yes(X) No
Injection	Make			---
	Type of pump.			---
	Number of injectors			---
	Type of injectors			---
	Number of Throttle Bores & Diameter			---

2 Stroke outboard engine



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ORIGINAL

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Homologation

Manufacturer . YAMAHA

Model 50H

Ignition	Tolerances		
Type			CDI
.
Cooling	Type		WATER COOL
	Method		WATER PUMP
	Pump.		RUBBER IMPELLER TYPE
Exhaust system	Number of impeller blades		6
	Where are the exhaust outlets located?		PROPELLER BOSS
	Dimension of exhaust outlets.		---
	Exhaust outlet dia. in the rear end of torpedo	± 2.0	mm 80
	Internal exhaust pipe standard equipment.		Yes(X) No
Supercharger	Dimensions marked on the picture page 4		
	Type.		---
		
Underwater Unit	Gear ratio.		1.85(24/13)
	P Longitudinal length of gear case torpedo.	± 5.0	mm 275
	Q Longitudinal dimension of gear case including the propeller shaft	MAXIM.	mm 410
	R Transversal dimension of gear case	± 3.0	mm 87
	S Thickness of union leg.	± 3.0	mm 39
	Z1 Skeg chord length, 25mm above bottom	± 3.0	mm 90
	Z2 Skeg chord length, 75mm above bottom	± 3.0	mm 145
	W1 Distance from propeller shaft to upper flange	± 5.0	mm 251
	W Distance from propeller shaft to anti-cabitation plate (see sketch page 10)	± 5.0	mm 170
	Y1 Thickness of skeg , 25mm above bottom	± 1.5	mm 7.0
	Y2 Thickness of skeg , 75mm above bottom	± 1.5	mm 8.5
	Y Skeg depth from propeller shaft splines outside dia.	± 5.0	mm 158
	Dia. of prop. shaft over splines	± 1.5	mm 21.5

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Homologation

Manufacturer . YAMAHA .

Model 50H

Power trim	Power trim: Standard model is available. .			. .
Notes	Notes 1. Two kinds of Motor cover decals are available. 2. S-shaft, L-shaft and UL-shaft are available. 3. Manual and electric starting are available. 4. Manual and remote-control steering are available. .			

2 Stroke outboard engine