

OWNER'S INSTRUCTION MANUAL

It is of vital importance, before attempting to operate your engine, to read the general 'SAFETY INSTRUCTIONS AND WARNINGS' section on pages 2-5 of this booklet and to strictly adhere to the advice contained therein.

- Also, please study the entire contents of this instruction manual, so as to familiarize yourself with the controls and other features of the engine.
- · Keep these instructions in a safe place so that you may readily refer to them whenever necessary.
- It is suggested that any instructions supplied with the vehicle, radio control equipment, etc., are accessible for checking at the same time.



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SAFETY INSTRUCTIONS AND WARNINGS ABOUT YOUR O.S. ENGINE

Remember that your engine is not a "toy", but a highly efficient internalcombustion machine whose power is capable of harming you, or others, if it is misused.

As owner, you, alone, are responsible for the safe operation of your engine, so act with discretion and care at all times.

If at some future date, your O.S. engine is acquired by another person, we would respectfully request that these instructions are also passed on to its new owner.

The advice which follows applies basically to ALL MODEL ENGINES and is grouped under two headings according to the degree of damage or danger which might arise through misuse or neglect.

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These cover events which might involve serious (in extreme circumstances, even fatal) injury.



These cover the many other possibilities, generally less obvious sources of danger, but which, under certain circumstances, may also cause damage or injury.



- This engine was designed for model boats. Do not attempt to use it for any other purpose.
- Mount the engine in your model securely, following the manufacturers' recommendations, using appropriate screws and locknuts.
- Install an effective silencer (muffler).
 Frequent close exposure to a noisy exhaust (especially in the case of the most powerful high-speed engines) may eventually impair your hearing and such noise is also likely to cause annoyance to others over a wide area.
- For their safety, keep all onlookers (especially small children) well back (at least 20 feet or 6 meters) when preparing your model for running.

- Take care that the glowplug clip or battery leads do not come into contact with the propeller or any other rotating parts. Also check that the linkage to the throttle arm is secure.
- If your engine does not have a built-in recoil starter, use an electric starter. The wearing of safety glasses is also strongly recommended.
- When handling the boat immediately prior to launching, be especially cautious.
 Keep the propeller and other rotating parts away from you.
- Before starting the engine, always check the tightness of all the screws and nuts especially those of joint and movable parts such as throttle arm. Missing retightening the loose screws and nuts often causes the parts breakage that is capable of harming you.



ENGINE CONSTRUCTION

With this engine, the piston will feel tight at the top of its stroke (TDC) when the engine is cold. This is normal.

The cylinder bore has a slight taper.

The piston and cylinder are designed to achieve a perfect running clearance when they reach operating temperature.



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NOTES WHEN APPLYING AN ELECTRIC STARTER

Do not over-prime. This could cause a hydraulic lock and damage the engine on application of the electric starter.

If over-primed, remove glowplug, close needle-valve and apply starter to pump out surplus fuel. Cover the head with a rag to prevent pumped out fuel getting into your eyes.



NOTE

We do not recommend running your boat on the sea, or in any other saltwater environment. Under such conditions, it is difficult to prevent the engine from becoming corroded and, eventually, inoperative.

MAX-18CV-RM & MAX-18CV-RMX INSTRUCTIONS

This manual handles the following two versions. MAX-18CV-RM with 11J carburetor MAX-18CV-RMX with 11J carburetor

The O.S. "18CV-RM" is a high-performance water-cooled marine engine for small radio-controlled boats, especially sport type hulls. A companion model, the MAX-18CV-RMX incorporating a recoil starter system is also available.

Standard accessories

Glow Plug No.8

NOTE

As delivered, the engine has the carburetor lightly fit into its intake. Secure it changing its angle according to the hull.

About the Head Gasket

These engines are equipped with two head gaskets of 0.1mm thick and 0.2mm thick. It is suggested to adjust the total thickness according to atmospheric temperature, humidity and glowplug used.

- · At early stage of running-in, when a glowplug tends to burn out early or when high nitromethane content fuel is used, try to run the engine with both gaskets.
- · When low nitromethane content fuel is used, try to run the engine removing the 0.1mm gasket.

TOOLS, ACCESSORIES, etc.

The following items are necessary for operating the engine. Items necessary for starting FUEL

Generally, it is suggested that the user selects a fuel that is commercially available for model two-stroke engines and contains 10-30% nitromethane. As a starting point, we recommend a fuel containing 20% nitromethane, changing to a fuel containing more nitro if necessary. When the brand of fuel is changed, or the nitro content increased, it is advisable to repeat the running-in procedure referred to in the RUNNING-IN paragraphs. Please note that with

high-nitro fuels, although power may be increased for competition purposes, glowplug elements do not last as long and engine life will be shortened.



REMINDER!

Model engine fuel is poisonous. Do not allow it to come into contact with the

eyes or mouth. Always store it in a clearly marked container and out of the reach of children.



SUPER FILTER (L) (Option)

Fit a filter to the outlet tube of your refuelling container to prevent entry of foreign matter into the fuel tank.

GLOWPLUG IGNITER

Commercialy available handy glowplug heater in which the glowplug battery and battery leads are integrated. PROPELLER



Use well balanced propellers only. As the ideal diameter, pitch and shape vary according to the size, weight and type of model, final selection can be made after practical experiment. As a starting point, suggested propeller diameter is 36-40mm with a pitch/dia ratio of 1.2-1.6 for Vee type hulls.

NOTE Never use a propeller that has even a slight damage.

REMINDER!

Never touch, or allow any object to come into contact with, the rotating propeller and do not crouch over the engine when it is runnina.

STARTER BELT

Necessary for starting the engine.

It is suggested to keep a starter rope as a reserve.

ELECTRIC STARTER AND STARTER BATTERY

Use a 12-volt electric starter with suitable battery for starting the engine (18CV-RM)



SILICONE TUBING

This is required for the connection between the fuel tank and engine, also for the water cooling system. Inner dia. of 2.3mm and outer dia. of 5-5.5mm would be suitable.



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TOOLS HEX SCREWDRIVER

Necessary for engine installation.

1.5mm, 2mm, 2.5mm, 3mm

SCREWDRIVER

Necessary for carburetor adjustments. No.1, No.2, etc ₿

SOCKET DRIVER

It is required to tighten and loosen the carburetor retainer nut.



LONG SOCKET WRENCH WITH PLUG GRIP

Recommended for easy removal and replacement of the angled and recessed glowplug, the O.S.Long Socket Wrench incorporates a special grip.



Glow Plug No.8 Glow Plug No.8 Water Cooled Head Starter Handle Water Cooled Head 0 Ð Cover Plate Carburetor Carburetor Type 11J Type 11J **Recoil Starter** 6 Assembly No.5 Mounting Lugs Mounting Lugs Crankcase Crankcase Rear Adaptor Crankshaft Drive Hub Drive Hub Crankshaft 18CV-RM

18CV-RMX

BASIC ENGINE PARTS

CARBURETOR CONTROLS (11J)

Three adjustable controls are provided on this carburetor.

• The Needle-Valve:

For adjusting the mixture strength when the throttle is fully open.

- The Mixture Control Screw: For adjusting the mixture strength at partthrottle and idle speed, to obtain steady idling and smooth acceleration to mid speeds.
- The Throttle Stop Screw: For setting the minimum idle speed:



NOTE: Readjustment may be necessary, occasionally to allow for changes in fuel, or propeller/dia.

INSTALLATION OF THE CARBURETOR

As delivered, the engine has its carburetor lightly installed into the intake boss. Secure it as follows.

- Loosen the retainer screw, rotate the carburetor to its correct position and make sure that it is pressed well down into the intake boss, compressing the rubber gasket, before retightening screw.
- Rotate the retainer screw gently until it stops, then tighten a further 60-90°.
 Do not overtighten the screw as this will damage the carburetor body.



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INSTALLATION

- Make sure that the engine mounting beams in the hull are parallel, with their top surfaces in the same plane. If they are not, the engine will not rest firmly as the engine mounting faces (undersides of the mounting lugs) are precision machined to be flat and in the same plane. Poor installation may not only cause vibration, erratic running and loss of performance, but may also damage the engine itself by deforming the crankcase, cylinder, etc.
- 2. The mounting beams and adjacent hull structure should be as rigid as possible so that the engine may develop its full performance. Use 3mm steel screws, such as Allen socket-head type, with locknuts, for bolting the engine to the mounting beams.
- 3. If the holes in the mounting beams do not align exactly with the engine's mounting lugs, enlarge them slightly with a needle file so that the mounting screws pass through the holes smoothly without being forced.



NOTES CONCERNING THE RECOIL STARTER (18CV-RMX ONLY)

REMINDER!

- Do not attempt to disassemble the recoil starter. If you do so, the very strong spring inside will be suddenly ejected. This can be very dangerous.
- Do not extend the starter cord more than 45cm(18"). Do not abruptly release the operating handle. Allow the cord to rewind smoothly while still holding the handle.
- Pull the operating handle straight out when starting the engine, so that the cord does not rub against the vehicle body or engine. This will help prevent the cord from being damaged by abrasion or engine heat.
- Try to avoid spilling fuel over the starter unit and its cord. Some fuels have a detrimental effect on these parts.
- The starter prevents the engine from being rotated in the wrong direction. The unit will be damaged if you attempt to force the flywheel in the opposite direction (i.e. clockwise when viewed from the crankshaft end).

NOTE: Because, in the interests of personal safety, dismantling of the starter mechanism is strongly discouraged, the Recoil Starter is available for replacement only as a pre-assembled unit. However, some related parts, such as Starting Shaft and Rear Adaptor, are obtainable separately. (See Parts List.)

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GLOWPLUG

Since the glowplug and fuel combination used may have a marked effect on performance and reliability, it would be worthwhile to experiment with different plug types. An O.S. No.8 glowplug is supplied with the engine. Another Recommended O.S. plug is A5. Carefully install plug finger-tight, before final tightening with the correct size plug wrench.

The role of the glowplug

With a glowplug engine, ignition is initiated by the application of a 1.5-volt power source. When the battery is disconnected, the heat retained within the combustion chamber remains sufficient to keep the plug filament glowing, thereby continuing to keep the engine running. Ignition timing is 'automatic' : under reduced load, allowing higher rpm, the plug becomes hotter and, appropriately, fires the fuel/air charge earlier; conversely, at reduced rpm, the plug become cooler and ignition is retarded.

Glowplug life

Particularly in the case of very high performance engines, glowplugs must be regarded as expendable items.

However, plug life can be extended and engine performance maintained by careful use, i.e.:

- Install a plug suitable for the engine.
- Use fuel containing a moderate percentage of nitromethane unless more is essential for racing events.
- Do not run the engine too lean and do not leave the battery connected while adjusting the needle.

When to replace the glowplug

Apart from when actually burned out, a plug may need to be replaced because it no longer delivers its best performance, such as when:

- Filament surface has roughened and turned white.
- Filament coil has become distorted.
- Foreign matter has adhered to filament or plug body has corroded.
- Engine tends to cut out when idling.
- Starting qualities deteriorate.

STARTING THE ENGINE & RUNNING-IN ('Breaking-in) PRESSURIZED FUEL SYSTEM

• The somewhat violent changes of hull attitude that occur in running, combined with the fact that, in boats the fuel tank is often located some distance from the carburetor, means that fuel 'head' at the carburettor can vary and upset running.

Therefore, it is recommended that a muffler pressurized fuel feed system be used.

Before starting the engine, always check the tightness of all the screws and nuts especially those of joint and movable parts such as throttle arm. Missing retightening the loose screws and nuts often causes the parts breakage that is capable of harming you. The following procedure is suitable for these engines when fuels containing up to 30% nitromethane are used.

- Fill the tank completely with fuel.
- Temporarily remove the glowplug to check that it glows bright red when energized.



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- Turn the needle-valve clockwise slowly until it stops. This is the fully closed position. Do not force to turn further.
- Open the Needle-Valve 2 turns from the fully closed position.



Swith on the transmitter and make sure that each linkage moves correctly. Raise the throttle trim 2 or 3 clicks on the transmitter for easier starting.



Turn the engine with an electric starter or recoil starter to draw fuel into the engine.



- Now connect glowplug battery lead to heat the plug filament and start the engine.
- Start the engine using an electric starter making sure the engine rotation direction is correct (counter-clockwise seen from the crankshaft end).

■ In case of the 18CV-RMX

• Pull the starter handle briskly straight out several times to start the engine.



When the engine starts, first repeat low speed running and medium speed running by raising and lowering throttle stick on the transmitter to warm up the engine. Aviod high speed running.

PRECAUTIONS

When starting the engine, with the hull out off the water and no load on the engine, even below half throttle, the engine can over-rev. Prolonged running at higher throttle settings can result in seizure of the connecting rod and crankpin. Never run the engine with the throttle above the starting setting with the hull out of the water and no load on the engine.



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- Next, disconnect the glowplug battery and try running the hull on the water. If the engine stalls, open the throttle fractionally, but try to keep the engine running as rich as possible: if it stops because of being excessively over-rich, close the Needle-Valve 30° and try again.
- Run the hull on the water until one tank of fuel has been consumed, then close the Needle-Valve 30° and run the hull for another full tank of fuel. Repeat this procedure until 5 more tanks of fuel have been consumed, during which time the throttle may be opened for brief bursts of increased power.

If the engine stops at medium speeds, close the Mixture Screw 45-90°.



Remember!

If the engine should need to be disassembled (e.g. for cleaning or minor parts replacement) it is advisable to return the Needle-Valve to the original rich, starting setting and check whether further running-in time is required before the car is raced again. In the event of any major working parts(e,g, piston/cylinder liner assembly) being replaced, the complete running-in should be repeated.

TO STOP THE ENGINE

• Lower the throttle trim and/or throttle stick on the transmitter.



Warning!

Do not touch rotating parts, engine and silencer when stopping the engine as they become very hot, and contact with them may result in a serious burn.

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FINAL ADJUSTMENT

- ◆ Run the hull (with throttle fully open) over the longest available straight, in order to observe the model's speed. Next return the hull to the starting point, close the Needle-Valve 30° and repeat the run, taking note of the improvement in performance. Continue with further runs, gradually reducing the Needle-Valve setting and aiming to achieve the highest straight-line speed. Remember, however, that, if the Needle-Valve is shut down too far, the engine will overheat and, accompanied by visibly diminished exhaust smoke, the model will lose speed. At this point, throttle down immediately, stop the hull and reopen the Needle-Valve 30°.
- Having established the optimum Needle-Valve setting, check the Mixture Control Valve setting as follows.

- ♦ With the engine running, close the throttle and allow it to idle for about five seconds, then reopen the throttle fully. If, at this point, the engine puffs out an excessive amount of smoke and the hull does not accelerate smoothly and rapidly, it is probable that the idle mixture is too rich.
- In this case, turn the Mixture Control Valve clockwise 45-90°. If, on the other hand, the engine tends to speed up momentarily and then cut out abruptly when the throttle is opened,the idle mixture is too lean. Correct this by turning the Mixture Control Valve counter-clockwise 45-90°.

NOTE:

Mixture Control Valve adjustment should be made in steps of not more than 45-90°, carefully checking the effect,on throttle response, of each small adjustment. Carry out adjustments patiently, under actual running conditions, until the engine responds quickly and positively to the throttle control.

Warning!

Mixture adjustments (whether via the Mixture Control Valve, or the Needle-Valve) cannot be made accurately under 'no-load' conditions, which, in any case, are not advised, since such operation carries the risk of seriously damaging the engine through over-revving and overheating.

- ♦ With the optimum mixture control position, light smoke is visible during high speed running,and the engine rpm increases smoothly during acceleration. Remember that, if the engine is operated with the fuel/air mixture slightly too lean, it will overheat and run unevenly. As with all engines, it is advisable to set both needle-valve and mixture control screw very slightly on the rich side of the best rpm setting, as a safety measure.
- ◆ If the engine runs too fast with the throttle closed, the throttle stop screw should be turned counter-clockwise to allow the throttle opening to be reduced.
- Finally, beyond the nominal break-in period, a slight readjustment toward a leaner needle setting may be required to maintain performance.

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CARBURETOR CLEANLINESS

The correct functioning of the carburetor depends on its small fuel orifices remaining clear.

REALIGNMENT OF MIXTURE CONTROL VALVE

In the course of making carburetor adjustments, it is just possible that the Mixture Control Valve may be inadvertently screwed in or out too far and thereby moved beyond its effective adjustment range.

Its basic position can be found by first rotating the Mixture Control Valve until its slotted head is flush with the carburetor body.

The valve is then screwed in exactly 0.5 turns to re-establish its neutral position.



NOTE:

It is necessary to readjust the needle-valve when the plug, propeller, fuel, silencer, etc. are changed. Also, needle setting varies to atmospheric conditions (temperature, humidity, pressure) even in the same day. Readjust the needle if necessary watching the engine running conditions.

CARE AND MAINTENANCE

Engine maintenance is very important for good running next time. Carry out the followings.

- 1. As previously observed, foreign matter in the fuel can cause problems. Therefore:
- rinse out the fuel tank with methanol or fuel before installing it.
- Install a fuel filter to the fuel delivery tube between tank and carburetor.
- Install a fuel filter to the outlet of your squeeze bottle, or to the pump inlet if you use a manual or electric pump. *
- do not leave your fuel container open needlessly.
- * O.S. ' Super-Filter ' (L) is available, as optional extra,to deal with this problem. To fit this filterto the outlet tube inside your refuelling container, will prevent the entry of foreign material into the fuel tank.

- Do not forget to clean the filters regularly to remove dirt and lint that accumulate on the filter screens. Also, clean the carburetor itself occasionally.
- 3. At the end of each operating session, drain out any fuel that may remain in the fuel tank. Afterwards, energize the glowplug and try to restart the engine, to burn off any fuel that may remain inside the engine. Repeat this procedure until the engine fails to fire. Leaving fuel residues within the engine can result in difficult starting after a period of storage. It may also cause corrosion. To reduce such risks, it is helpful to inject some corrosion inhibiting oil into the engine's air intake. Rotate the engine many times to distribute the oil to all the working parts.

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- Drain the water remaining in the water cooling head, and wash out with methanol, then inject corrosion-inhibiting or moisture-displacing oil.
- 5. When cleaning the exterior of the engine, use methanol or kerosene. Do not use gasoline or any solvent that might damage the silicone fuel tubing or any plastic parts of the boat hull.
- 6. When the engine is not in use remove the glowplug and rinse out the interior with kerosene (not gasoline), by rotating the crankshaft. Shake out residue, then inject light machine-oil through the plug hole again rotating the shaft to distribute the protective oil to all working parts.
- 7. In the event of water having entered the cylinder, crankcase, etc., refer to the procedures recommended in the footnote to "running-in" section.

8. Avoid unnecessary disassembly of your engine.

CHECKING OF THE ENGINE

After long use, the engine will not develop the standard performance due to wearing of parts. It is suggested to replace the parts, such as ball bearings, connecting rod, cylinder & piston assembly and crankcase, as necessary after checking when the following symptoms are found.

- Idling gets unstable and/or the engine stops at idle.
- Engine sound changes and the engine tends to overheat.
- · Power drops extremely.

TROUBLE SHOOTING	Symptom				
	Engine fails to fire.				
Cause	Corrective action				
Fuel tank is empty. Fuel not reaching the engine.	Fill the tank with fuel and repeat Priming procedure.				
Glowplug element is burnt out. Glowplug battery discharged	Replace glowplug. Recharge or replace the battery.				
Clogged fuel filter Silencer is plugged up.	Clean or replace fuel filter. Clean inside the silencer.				
Over priming	Remove glowplug and pump excess fuel.				
Fuel tubing is disconnected. Fuel tubing is kinked, split or has a hole.	Connect fuel tubing securely. Check the tubing carefully and replace if necessary.				
Incorrect servo linkage	Connect correctly after setting servo at neutral.				
Reverse rotating direction of electric starter.	Mare sure it rotates counter clockwise seen from crankshaft side.				
Recoil starter slips.	Inject cleaner spray into starter cord crevis on the body.				

Symptom						
Engine fires intermittently but does not run.						
Cause	Corrective action					
Insufficient fuel in the tank.	Fill the tank with fuel.					
Deteriorated glowplug	Replace glowplug.					
Clogged fuel filter	Clean or replace fuel filter.					
Silencer is plugged up.	Clean inside the silencer.					
Engine overheated	Wait until engine cools.					
Glowplug battery disconnected too soon.	Do not disconnect plug battery and wait until r.p.m. become stable.					
Air bubbles in fuel	Install O rings to the tank mounting screws to prevent bubbles.					

Symptom						
Unstable idle						
Cause	Corrective action					
Unsuitable glowplug	Use suggested glowplug in the instructions.					
Unsuitable fuel	Do not use extremely high nitro or low oil content fuel.					
Extremely light flywheel	Use heavier flywheel.					
Silencer is disconnected or has play	Install silencer securely.					
Symptom						
Not reaching expected peak r.p.m.						
Cause	Corrective action					
Insufficient warming up or running-in.	Set the needle only after warming up. Complete running-in.					
Silencer or manifold is not securely connected or disconnected.	Replace seal ring. Check the connections and secure them.					
Fuel tubing from tank is split or broken.	Replace the tubing.					

Symptom					
Poor response					
Cause	Corrective action				
Deteriorated glowplug	Replace glowplug.				
Incorrect carburetor settings	Readjust low r.p.m. range with metering needle and mixture control valve.				
Incorrect setting of transmitter Exponential function.	Check the transmitter setting.				
Symptom					
Loss of r.p.m.					
Cause	Corrective action				
Throttle position open too far.	Lower the throttle trim on the transmitter.				
Closed too far needle-valve and/or mixture control screw.	Open the needle-valve an/or mixture control screw a little.				
Incorrect carburator installation	Install carburator properly				

18CV-RM ENGINE PARTS LIST

Description	Water Cooled Head Assembly) Gasket Set	Cylinder & Piston Assembly	Piston Pin	Piston Pin Retainer (2pcs.)	Connecting Rod	Carburetor Complete (Type 11J)	Carburetor Retainer Assembly	Propeller Nut	Drive Hub	Crankshaft Ball Bearing (Front)) Crankcase	Crankshaft Ball Bearing (Rear)	Crankshaft	Cover Plate) Screw Set	Glow Plug No.8
Code No.	21804100	21824000	21823000	21816000	21817000	21815000	21884000	21818000	20810007	21408000	21833000	21811000	21832000	21812000	21807100	21213030	71608001
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The specifications are subject to alteration for improvement without notice.



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18CV-RMX ENGINE PARTS LIST

Description	Water Cooled Head Assembly	Gasket Set	Cylinder & Piston Assembly	Piston Pin	Piston Pin Retainer (2pcs.)	Connecting Rod	Carburetor Complete (Type 11J)	Carburetor Retainer Assembly	Propeller Nut	Drive Hub	Crankshaft Ball Bearing (Front)	Crankcase	Crankshaft Ball Bearing (Rear)	Crankshaft	Starting Shaft	Rear Adaptor	Screw Set	No.5 Recoil Starter Assembly	No.5 Recoil Starter Body	No.5 One-way Clutch	Glow Plug No.8
Code No.	21804100	21824000	21823000	21816000	21817000	21815000	21884000	21818000	20810007	21408000	21833000	21811000	21832000	21812100	21812200	21801800	21213020	73003000	73003100	73003200	71608001
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The specifications are subject to alteration for improvement without notice.



11J CARBURETOR EXPLODED VIEW



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11J CARBURETOR PARTS LIST

No.	Code No.	Description
1	21285901	Needle Valve Assembly
1-1	27881820	"O" Ring (2pcs.)
1-2	21881950	No.14 Universal Nipple Assembly
2	22681310	Throttle Stop Screw
3	21884100	Carburetor Body
4	22481506	Rotor Spring
5	21884200	Carburetor Rotor
6	21283210	Dust Cover
7	22681419	Throttle Lever
8	21481420	Throttle Lever Fixing Nut
9	21484600	Mixture Control Screw
9-1	27881820	"O" Ring (2pcs.)
10	22615000	Carburetor Rubber Gasket

The specifications are subject to alteration for improvement without notice.

O.S. GENUINE PARTS & ACCESSORIES



18CV-RM w/11J THREE VIEW DRAWING

SPECIFICATIONS		11
 Displacement Bore Stroke Practical R.P.M. Power output Weight 	3.0 cc (0.183 cu.in.) 16.0 mm (0.629 in.) 15.0 mm (0.590 in.) 3,000-32,000 r.p.m. 1.35 ps / 1.37 hp / 28,000 r.p.m. 175.5 g (6.2 oz.)	

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Dimensions(mm)







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