CLYDESDALE
Powering the Future

User Instructions: 2060 400kg pole mounted winch

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User Instructions:

Thank you for purchasing a SAHLINS product.
We want you to be satisfied with your Overhead line Winch 2060, and this manual has been written to help you to handle and take care of the machine, enabling you to bring the machine into operation so that you become well acquainted with the safety measures you need to adopt before you use it.

GENERAL
Great care has been put into the design and manufacture of this equipment to ensure there will be no health or safety risks.
There are risks in all work connected with cables and ropes, and to eliminate these risks it is important that:
- you study and follow the instructions
- all personnel continuously receive training in maintenance and safety
- functional equipment and tools are made available
- the owner and the supervisory team are responsible for making sure effective safety programmes and instructions are drawn up and followed by all personnel.

Our instructions contain important information which all users should know and understand before they use the equipment. For your safety and the safety of other people, you should pay special attention to the items/sections that have the following headings:

WARNING
Gives important information to warn of the risks of serious personal injury or danger if the instructions are not followed.

CAUTION
Gives important information that describes how you should prevent damage to the machine and equipment, or how you should avoid a situation that could cause personal injury.

REMARKS
Gives advisory information concerning operation, care and maintenance of the machine and equipment

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User Instructions:

Safety regulations Safety for personnel

1. Read and become well-acquainted with all warnings, cautionary measures and instructions contained in the operating and maintenance instructions, and also read and learn the significance of all signs and plates that are affixed to or near the equipment. If you are in any doubt, make sure you get the answers to all your questions before starting to work with the machine and equipment.
2. Never work with the machine or equipment if you are under the influence of alcohol, strong medicines, sedatives, or other drugs that could render you less alert or which could affect your judgement.
3. Adopt appropriate safety measures to prevent hair or loose-fitting items of clothing from being caught up in moving parts or control units.
4. Always use, if possible, protective gloves to protect the hands and fingers against cuts and abrasions, burns, and solvents.
5. Always use a safety helmet when the work requires you to.
6. Always wear ear plugs when working in areas where there is a high volume of noise. Safety at work
7. Keep the working area clean and free from accumulation of material.
8. Do not allow unauthorised people to enter or be near the working area.
9. Surfaces touched by hand or feet should be kept clean, dry and free from oil and grease.
10. Store parts and tools in the area provided for the purpose when they are not used.
11. Do not stand under, or allow anyone else to stand under equipment that is raised or suspended.
12. Find out the weight limits for cables and lifting units, and the free movement area that is required for these. Safety of equipment
13. Warning, prohibition, and information signs must not be concealed, altered, damaged, or removed.
14. Before setting up portable equipment, make sure the soil surface is solid and flat. Check to make sure that supports and security fixtures are firmly in place. Follow the instructions for securing and setting up equipment where applicable.
15. Check the components in the equipment before each operation to make sure there are no parts that are damaged or can be suspected to be damaged. Repair or replace damaged parts before starting and operating the equipment. Use only Genuine parts.
16. Before starting and operating the equipment, make sure there is no one, or any animal, tool, parts or other foreign objects in, on underneath, or around the equipment. Check to make sure that all safety and protection equipment is correctly installed and in a satisfactory condition.
17. Do not allow untrained personnel to start or operate any equipment without the supervision of a trained operator.
18. Never leave the equipment unattended.
19. Observe caution when starting and during operation of the machine in case there are defective measuring instruments or visible defects, smell or abnormal noise that could indicate warning of a fault. Stop the equipment immediately if you suspect any fault.
20. Preform all inspection, maintenance, lubrication, and adjustments with extreme caution and in accordance with the manufacturer´s recommendations. The machine should always be stopped when maintenance work is to be carried out. Safety for fire and environmentally hazardous substances

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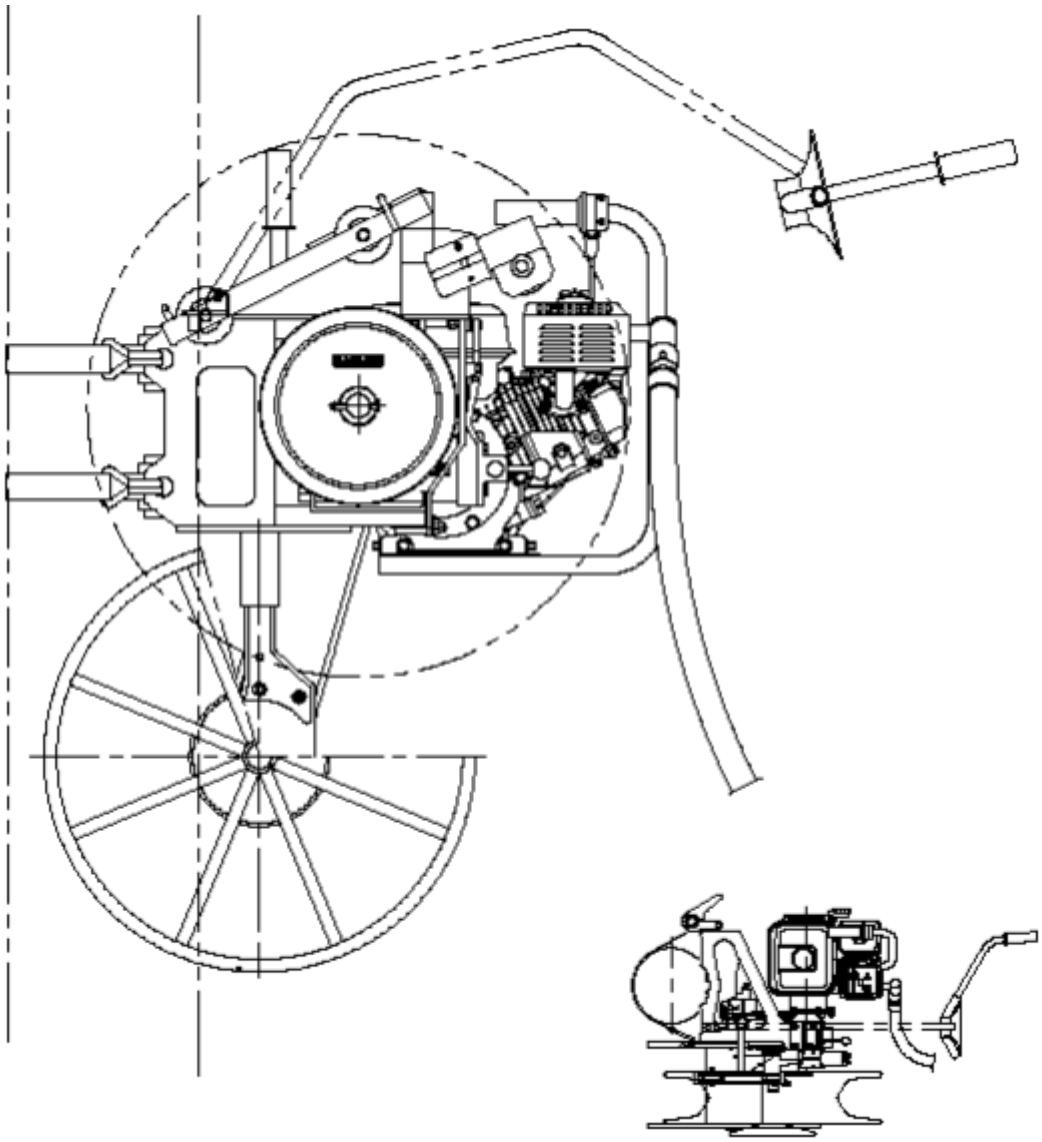
User Instructions:

21. Store easily ignitable, combustible, and dangerous substances in a safe place and in containers designed for this purpose. The should be clearly marked in accordance with the valid instructions.
22. Do not permit smoking or naked flames in the vicinity of fuel and oil tanks and other combustible substances.
23. Switch off all engines when filling with oil and fuel. Follow the instructions and recommendations that apply to handling of these substances.
24. Never start a diesel or petrol engine in an enclosed area unless this area has the correct type of ventilation. Dangerous gases could be fatal.
25. Do not use easily ignitable and/or combustible substances such as petrol, paraffin, or diesel fuels to clean parts. Always use non-ignitable solvents specially intended for cleaning purposes.



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User Instructions:

Introduction Over headline winch 2060

Pole mounted over head line winch 2060 - a portable capstan winch designed for pulling suspended cables and conductors with pilot rope or reconductoring or coiling old conducter with a split drum. The winch is constructed in three manageable base units: engine with gearbox, pole and drum holding frame and a drum. The unit can easily be mounted on a wooden pole. The drive unit, powered by a four-stroke petrol engine, has a built in self breaking worm gear that retains the load when the drum is stopped, it has full forward and reverse gearing.
The machine is designed to handle up to 157 mm2 conductor with length of 1000 m however line conditions must be taken into account. The drive unit is also used on other SAHLINS machines.

The basic equipment contains:

	Part.no.
Engine with wormgearl	2060-3020
Polebracket	2060-4030
Drumholding device	2060-4040
Drivebelt	9490-003
Capstan wheel Ø250 mm	2060-5004
Exhaust hose, 5 m	2050-0180
Storage box	2060-0020
Linespreader (polyniteline)	2060-4050
Spark plug wrench	9875-003

Accessories:

Pilot rope drum excl. pilot rope	3060-0021
Pilot rope drum incl. 1100m Polynite Ø6	2060-0030
Pilot rope Polynite Ø6	7512-061100
Split drum	2060-0010
Linespreader for split drum	2040-0220

Technical data

Pulling force:	Maximum pulling force with capstan Ø 250 mm - 400 kp
Speed:	0 - approx.. 29 m/min
Pulling rope:	6mm synthetic rope (polynite) Breaking load 800 kp
Drums:	Split drum : Outer Ø 680mm Inner approx. Ø 450mm Width inner Ø180 mm
Engine:	Four stroke petrol engine 5,5hp
Weight:	Engine with gearbox 29 kg Pole bracket 15 kg Pilote rope drum 550m 6mm Polynite 28 kg Pilote rope drum 1100m 6mm Polynite 37 kg Split drumØ 680 14 kg

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User Instructions:

Engine:	HONDA type GX 160, four stroke air cooled
Cylinder volume:	163 cc
Power @ 3600 rpm:	5,5 hk
Fuel:	Petrol lead free 95 octane
Transmission:	Wormgear with forward and reverse gear. Failsafe brake
Oil wormgear:	Transmissions oil SAE 80W90 0,5L
Noise level:	approx 96 dB(A)

Handling

SAHLINS over head line winches are reliable and designed to provide you with safety.
It can help you to carry out your work easily without any problem. You must, however, follow these instructions carefully as incorrect handling could cause danger.

WARNING! Before installing frame, engine, and accessories, put on protective gloves.

Installing the pole frame at a suitable height against the pole. It may only be used on wooden poles with circular cross-section. Align the frame so that it is in the correct direction of pull. Pull out the tensioner strap fully and attach the hook into the hole make sure it fits properly into the hole on the opposite side to the tensioner. Pull the strap through until it is stretched, and then tighten with the tension grip so the frame is firmly in position. Then install the engine with gearbox between the tubular arms on the frame.

Fold up the locking arm and secure it with the eccentric locking device. Make sure that the pipes lie correctly with the milled opening in the gearbox. Fit the capstan wheel onto the output shaft from the gear. Secure with the locking pin

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User Instructions:

Install the drum holder on the engine bracket slide it up to its highest level to simplify installation of the drive belt.

Put the drive belt over the drive pulley on the gear, and the pulley on the drum holder.
Check that the belt is correctly aligned in the grooves.
The belt is tensioned by pressing the drum holder down.
Check belt tension by pressing the belt with your thumb.
Recommended clearance is 5-8 mm.
Lock the drum holder with the lock screw, on the inside of the

Install the line spreader on the attachment for the input roller. Always use the line spreader for line pulling.

WARNING: Never start the engine before the machine is fully assembled.

CAUTION: Always install the exhaust hose and line spreader.

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User Instructions:

Operation

WARNING: Before starting to use the machine, make sure that you understand the function of the controls.

Speed is controlled by the throttle control on the engine. The throttle control has a "Dead man's handle" function, which means that to "stop", you release the throttle control, the engine slows down to idle and the gearbox stops and retains the load (non-reversible worm drive gear).
At an "emergency stop", let go of the throttle control and move the engine switch to the "OFF" position.

NOTE: The machine has two gears, forwards and reverse.

NOTE: No neutral gear.
Change gear with the gear lever on the gearbox.

WARNING:
Only change gear when the engine is running at "idle"

Reverse gear is only used to unwind a line under tension.
Under normal heavy loading, such as if a joining sleeve has caught up in a line support etc., release the throttle, wait until the engine slows down to "idle", engage reverse, unwind a few turns and rectify the fault.
If it is difficult to change gear, move the gear lever back and forwards several times until the gear engages.
Never use force to change gear.
When the fault has been rectified, continue winding in.
Never use more throttle than necessary to achieve the desired result.
Never race the engine.

Assembling the drum

Install the drum so that the catch on the drum engages in the hole on the drum shaft.
When unwinding the drum, install the drum so that the catch enters the milled groove on the drum shaft and pull the line straight out from the drum.
When pulling a line, lock the drum by ensuring that the catch goes through the lock hole on the drum shaft.

NOTE: It is not necessary to start the engine when unwinding the drum.

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User Instructions:

Assembling pilot rope on the capstan wheel.

Remove the pulley wheel and run the line through the milled socket, re-install the wheel.
Wind 2-3 turns of line on the capstan wheel, then up through the line spreader to the drum.

WARNING: Before pulling the line, check that the catch on the drum has locked properly.

Using the split drum

Remove the capstan wheel from the wheel shaft on the wormgear, and install the split drum.
Lock it with the catch, so that the catch engages the shaft.
Check that the tension wheel on the split drum is tightened, before winding starts.

WARNING: Before pulling, make sure that the line is in such good condition that it will not break, and thus cause personal injury or property damage.

CAUTION: Do not wind synthetic fibre line onto the split drum, since the elasticity of the line can cause the drum to collapse or burst.

WARNING: Always use a line spreader for all kinds of winding, to prevent accidents.

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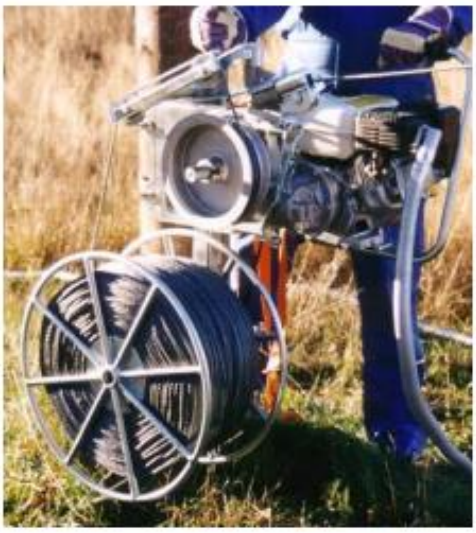
User Instructions:

Always lift the line spreader off the line when line joints pass. (Do not wind more wire onto the wind-up drum than you can lift off the machine.)
The old conductor must be "bunched" before the drum is divided. Carefully release the tensioning wheel and divide the drum so that the coil of wire can be lifted out.

WARNING: Note that the coil of wire can fall out of the drum when the tensioning wheel is released and the drum is divided, if you are not careful.

After lifting out the coil of old conductor, re-install the drum gable.
Now the drum is ready for re-use.



Using the pilot rope drum:

WARNING: Before pulling, check that the line is not damaged or incorrectly spliced.

WARNING: When pulling, make sure that the pullingforce do not exceed the breaking load of the pilot rope.
Please refer to "Technical Data".

WARNING: Always use a line spreader for all kinds of winding, to prevent accidents.

A line drum is used for all kinds of line and suspended cable pulling. The drum should only be used with original 3-ply Polynite with a minimum ultimate breaking load of 800 kp. (6 mm, length 550 m or 1100 m). Please contact SAHLINS SWEDEN AB if any other kind of line is used. Use swivels between the pilot rope and the conductor. Lines must only be spliced by using approved splices.
Do not tie lines together as this will decrease the breaking load of the pilot rope.
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Using a linespreader:

WARNING: It is very important that a line spreader is used for all kinds of winding, to prevent accidents.

The line spreader is standard and should be used for
- Split drum for conductor coiling
- Winch drum with synthetic line

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User Instructions:

Starting and stopping the engine

WARNING: When operating the machine, use approved hearing protection.

Check the fuel level. If necessary, top up with 95 octane unleaded petrol.

WARNING: Do not overfill the tank.
Check that the tank cap is closed properly and securely.

Turn the petrol cock to the ON position.

Close the choke in the direction of the arrow.
Do not use the choke when the engine is warm, or at high ambient temperatures.

Turn the engine switch to ON.

Open the throttle slightly.

Pull the starter grip lightly until resistance is felt, then pull briskly.

CAUTION: Never pull out the starting cord fully, or allow the starting handle to snap back. Retrurn it gently to its original position.

When the engine has started, open the choke gradually.

When stopping, release the throttlehandle and turn the engine switch to the OFF position.

Turn the petrol cock to the OFF position.

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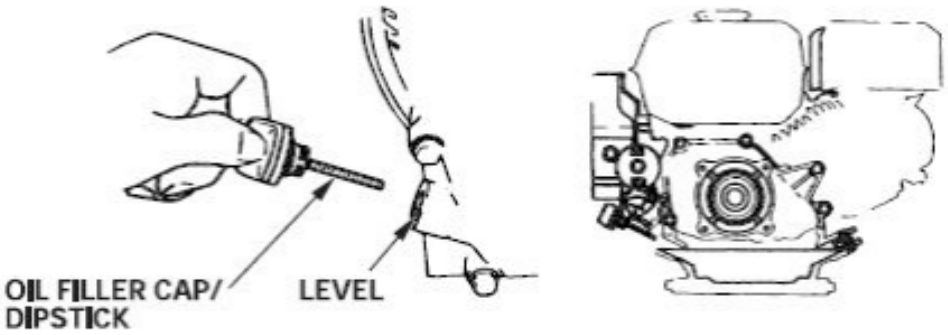
User Instructions:

Maintenance:

Maintenance of internal combustion engine

WARNING: The engine and the silencer will become hot and may cause burn injuries if touched, or start a fire, if easily ignitable materials comes into contact with the engine or silencer.
Allow the engine to cool for 20 minutes before you carry out any maintenance work.

CAUTION: Use only genuine SAHLINS parts in maintenance and repair work.



Changing and checking the oil

Check the oil level at regular intervals.
Make sure the oil level is correct.
Change the oil after the first 20 hours of operation, and subsequently after every 150 hours.
Remove the filler cap and drain-screw, and allow the oil to run out while the engine is still slightly warm after use.
Replace the drain-screw.
Top up witch new oil of the correct grade (see technical data).
Oil capacity 0.6 litres.
Screw the oil filler cap back into position.

CAUTION: Always wash your hands after coming into contact with oil or petrol.

REMARKS: Used oil is a threat to the environment.
Never pour oil into the soil or sewer system.
Leave the oil at a recycling station or similar place for recycling.

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User Instructions:

Cleaning the air filter:

REMARKS: The engine will not work properly if the air filter is dirty. It is important to clean the air filter regularly.

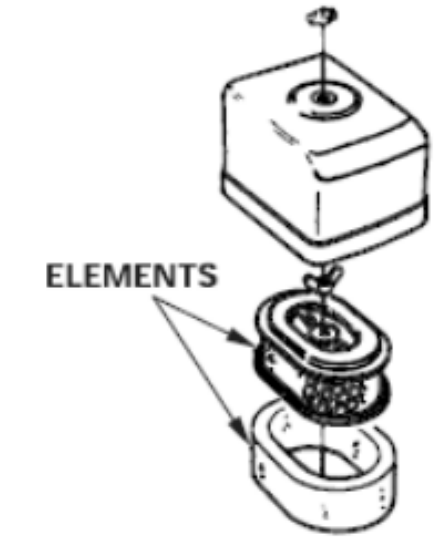
WARNING: Never use petrol or easily-ignitable fluids to clean the air filter elements.

CAUTION: Never run the engine without an air filter.

Remove and clean the foam plastic coarse filter every 50 hours.
The paper element should be cleaned once a year or after every 300 hours of operation.

Remove the wing nut and air cleaner casing.
Remove the wing nut that retains the air cleaner insert.
Separate the elements and check to make sure they are not damaged.
Replace them if they are damaged.

The foam element: Wash the foam element in a warm soapy water, rinse and allow to dry.
Dip the element in clean engine oil and then squeeze it. (The engine will emit smoke on starting if there is too much oil remaining in the element.)



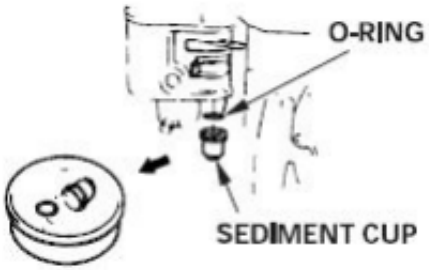
Cleaning the sediment cup

WARNING! Petrol is extremely flammable,and under some conditisons it can explode.
Do not smoke, and keep well away from any spark-generating apparatus or naked flame.
After refitting the separator cup, check to make sure there is no leakage and that the surrounding area is dry before starting the engine.

Turn the fuel valve to OFF. Remove the separator bowl and O-ring, wash them in a cleaning fluid with a high flash-point.
Dry the parts and refit them.
Turn the fuel valve to ON (open) and check to make sure there is no leakage.

CAUTION: Always wash your hands after coming into contact with oil or peterol

REMARKS: Used solvents are a threat to the environment. Never pour a solvent into the soil or sewer system. Leave the solvent at a recycling station or similar place for recycling.



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User Instructions:

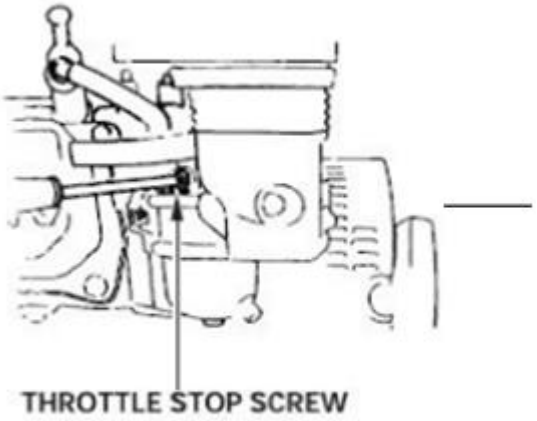
Adjusting the carburettor

Before adjusting the carburettor, clean the air filter, see 'CLEANING THE AIR FILTER'.
The carburettor has been adjusted at the factory for normal air pressure, so it may be necessary to reset the adjustment screws to ensure regular and smooth running.
Minor adjustments to the carburettor may be necessary owning to differences in fuel, temperature, height (air pressure), or load.
Contact authorized Honda workshop

Carburettor adjustment:(setting the idling speed)

Start the engine and allow it to warm up to normal operating temperature.
With the engine idling, turn the pilot screw in or out that produces the highest idle rpm.
The correct setting will usually be aproximately 2 turns anticlockwise from fully closed position.

CAUTION: Do not tighten the pilot screw against its seat, this will damage the pilot screw or seat.



Spark plug

The recommended spark plugs: BPR 6ES (NGK)
W 20EPR-U (DENSO)

REMARKS: Use only the recommended spark plugs. A spark plug with a different heat ration could damage the engine.

WARNING! To avoid burns if the engine has been running, do not touch the silencer or spark plug.
Remove the spark plug cap and use a plug spanner to remove the spark plug.
Check the spak plug carefully.
Replace the plug if there are heavy carbon deposits on the electrodes, of if the insulator is chipped or cracked.
Clean the electrodes and set the gap to 0.7-0.8 mm.
Check the washer, and screw in the spark plug by hand as far as it will go.
When reinstalling a used spark plug, tighten 1/8-1/4 turn using a plug spanner.
When installing a new spark plug, tighten about ½ turn.
Fit the spark plug cap.

REMARK: Tighten the spark plug carefully, to prevent any risk of overheating wich can damage the engine.

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User Instructions:

The cooling system

CAUTION: The engine and silencer will become hot and may cause burns if touched, or start a fire, if easily-ignitable material comes into contact with them.
Allow the engine to cool for 20 minutes before carrying out any maintenance work.

Grass and other refuse can cause a blockage in the cooling system after a long period of operation.
Remove the fan shroud and the cover over the cylinder and remove any grass or other material to prevent the engine overheating.
Always keep the silencer and its surroundings free from grass, dirt and refuse.
Wipe clean before installing the fan shroud, check the starting mechanism to ensure it runs smoothly and operates correctly.
Apply a light coating of grease onto the start pad shafts.

Maintenance of wormgear:

-check the oil level after every 50 hours of operation (level screw below the output shaft, gearbox installed in motor bracket or placed horizontally)
-the oil must be changed after the first 10 hours of operation, and
subsequently after 300 hours of operation, but at least once a year,
-check for any leakage, tighten or replace the seal if any leakage occurs.

CAUTION: Always wash your hands after coming into contact with oil or petrol.

GENERAL:

Whenever necessary, grease the tension handle on the belt tensioner, and the tension screw on the eccentric lock.
Check and grease the shaft-coupling and catch on the drums.
Check the pilot rope regularly to ensure there is no damage.

Transporting the engine with wormgear:

WARNING: Before transporting the engine and gear unit, allow the engine to cool and put the engine switch in the OFF position. Close the petrol cock and make sure there is no leakage of petrol.
Keep the unit horizontal during transport to prevent fuel leakage.

Transport the machine in its storage box.

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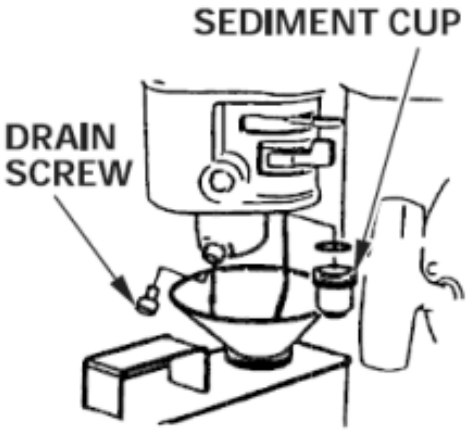
User Instructions:



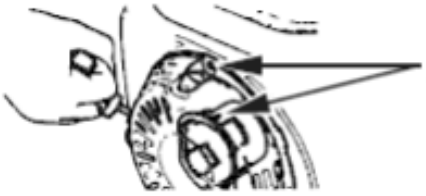
Longterm storage:

The storage site must be dry.
Drain the fuel into a suitable container:
- with the petrol cock closed, removed and clean the separator bowl.
- open the petrol cock and drain the tank.
- refit the separator bowl and tighten it carefully.
- drain the carburettor by unscrewing the draining screw.

Change the engine oil (page 14).

Remove the spark plug and pour about a tablespoonful of clean oil into the cylinder.
Pull the starter cord to distribute the oil.
Replace the spark plug.
Continue pulling until the notch on the starter pulley aligns with the hole on recoil starter (see illustration).
At this point the intake and exhaust valves are then closed and this will help to protect the enginge from internal corrosion.

Store the engine in its storage box.



Align the mark on the starter pulley with the hole at the top of recoil starter.

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Maintenance schedule

Maintenance is to be carried out at the intervals shown in the table, either after months or hours of use, whichever comes first.

(1) Clean more frequently when operating in dusty contitions.
(2) To be carried out at SAHLINS workshop unless the user is qualified to perform the work and has the special tools required.
(3) Possibly every other year.

CAUTION: Always wash your hands after coming into contact with oil or petrol.

REMARKS: Used oil is a threat to the environment. Never pour oil into the soil or sewer system. Leave the oil at a recycling station or similar place for recycling.

WARNING: Use only genuine SAHLINS parts for service and repair.
Parts that do not comply with our quality requirements could cause damage to the machine and accessories.

INTERVAL		Varje gång	1:st month or 20 hours	Every 3 month or 50 hours	Every 6 month or 150 hours	Every year or 300 hours
Engine switch "ON" / "OFF"	Check	x				
Throttle handle "Deadmans handle"	Check	x				
Engine oil	Check	x				
Engine oil	Change		x		x	
Muffler leakage	Check	x				
Air filter	Clean			x(1)		
Cooling system	Clean				x	
Spark plug	Check/change			x(1)		
Valve clearance	Check/adjust					x
Petrol tank	Clean					x(2)
Fuel hose	Check	x				
Fuel hose	Change					x(3)
Wormgear	Oil check				x	
Wormgear	Oil change					x(3)

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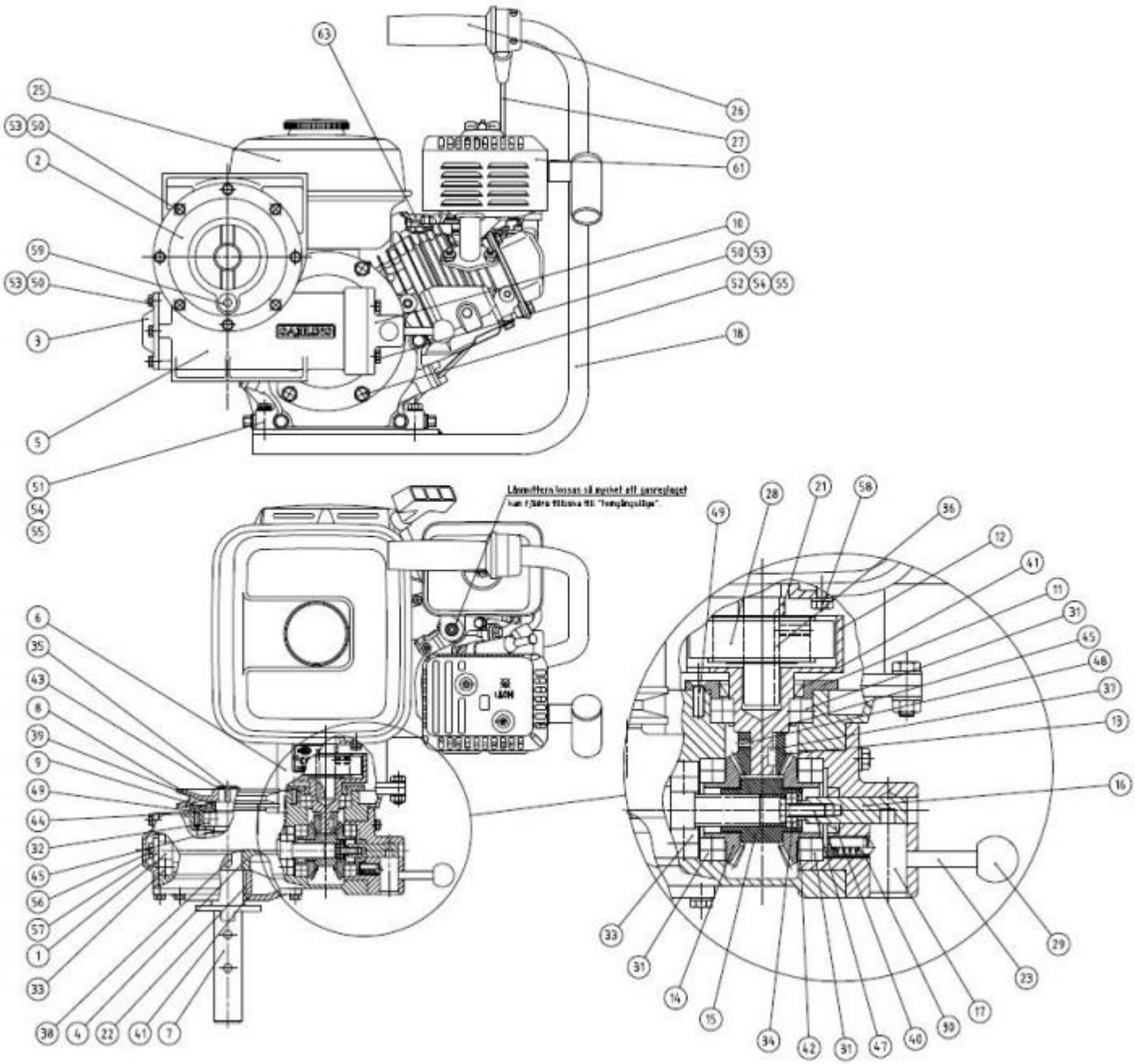

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User Instructions:

63	1	9482-004	SPRING SF-DF 0.6X6X35	
61	1	2060-5033	HEATING GUARD	2858-4
59	1	9621-VSTI16	PLUG VSTI 16X1,5-ED	
58	4	9369-002	SCREW U6S 5/16 UNF X 3/4	
57	1	9449-084	WASHER 8,4X26X5	
56	1	2040-5012	SCREW LEFT THREAD M8VX15	
55	6	9421-08	NUT M6M M8	
54	13	9444-082	LOCK WASHER FBB 8.2	
53	20	9444-061	LOCK WASHER FBB 6,1	
52	5	9361-08025	SCREW M6S M8X25	
51	2	9361-08040	SCREWM6S M8X40	
50	16	9361-06020	SCREW M6S M6X20	
49	7	9372-06020	HEX SCREW MF6S M6X20	
48	1	9374-04006	STOP SCREW S6SS M4X6	
47	1	2040-5029	SCREW M7 SPEC	2691-4
	2			
45	1	9302-030	SNAP RING SGA 30	
44	1	9302-025	SNAP RING SGA 25	
43	1	9302-020	SNAP RING SGA 20	
42	1	9301-019	SNAP RING SGH 19	
41	2	9462-35457	RADIAL RING 35X45X7	
40	1	9462-14247	RADIAL RING 14X24X7	
39	1	9462-25357	RADIAL RING 25X35X7	
38	1	9321-0835	KEY-RK 8X7X35	
37	1	9321-0410	KEY-RK 4X4X10	
36	1	2060-5032	KEY	2857-4
35	1	9321-0614	KEY-RK 6X6X14	
34	1	9201-607-0	BALL BEARING 607	
33	2	9201-6304-0	BALL BEARING 6304	
32	1	9201-6205-0	BALL BEARING 6205	
31	3	9201-6006-0	BALL BEARING 6006	
30	1	9409-003	SPRING PLUNGER M12	
29	1	9511-2508	BALL Ø 25 MM	
28	1	9611-001	CENTRIFUGAL CLUTCH	
27	1	2040-4101	THROTTLE WIRE	1073-4
26	1	2040-5107	THROTTLE HANDLE	
25	1	9602-0502	ENGINE HONDA 5.5 HP	
	1			
23	1	2040-5025	LEVER	1127-4
22	1	2040-5026	BEARING 35X39X26	2856-4
21	1	2060-5031	SPACER	2855-4
	1			
	1			
18	1	2060-5026	HANDLE	2741-3
17	1	2060-5023	EXCENTER	2711-4
16	1	2060-5022	SPOOL	2710-4
15	1	2060-5019	SPLINED SHAFT	2709-4
14	2	2060-5018	GEARWHEEL	2708-4
13	1	2060-5017	GEARWHEEL	2707-4
12	1	2060-5016	DRIVE SHAFT	2706-3
11	1	2060-5015	RING HOLDER	2705-4
10	1	2060-5014	GABLE	2704-3
9	1	2060-5010	CAP	2702-4
8	1	2060-5009	V-BELT DISC	2701-3
7	1	2060-5008	SHAFT	2700-3
6	1	2060-5003	FLANGE	2695-3
5	1	2060-5002	HOUSING	2694-0
4	1	2040-5006	GEAR WHEEL	1100-4
3	1	2040-5014	CAP	1097-4
2	1	2040-5002	GABLE	1034-2
1	1	2040-5009	GEAR SCREW	1013-4

User Instructions:

SAHLINS

EG-declaration of conformity

(Directive 98/37/EG Annex 11, Sub A)

Manufacturer: Sahlins Sweden AB
Företagsvägen 5
SE-512 64 Holsljunga

Declare under our sole responsability that the product

Overheadline winch Type 2060

To which this declaration relates is in conformity with the following standard

98/37/EG

And that the following harmonized standards have been applied.

EMC Directive 89/336/EEG
92/31/EEG
Low Voltage Directive 73/23/EEG

Holsljunga 120215

Peter Pide
Managing director
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