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ENGLISH

OPERATING INSTRUCTIONS & SPARE PARTS LIST



VIBRATORY PLATE COMPACTOR MODEL PC 1112

ENGINE OPTIONS

M11600.F - 5HP ROBIN GASOLINE ENGINE

M11600.E - 5.5HP HONDA GASOLINE ENGINE



ENGLISH



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ENGLISH



CE DECLARATION OF CONFORMITY

We hereby declare that the equipment described below conforms to the relevant fundamental safety and health requirements of the appropriate CE Directives, both in its basic design and construction. This declaration will cease to be valid if any modifications are made to the machine without our expressed approval.

Product: Vibratory Plate Compactors : PC 1112

Relevant CE Machinery Safety Directives : (89/392/EEC)
amended by 91/368/EEC, 93/44/EEC, EN500-1, EN500-4.

Appropriate internal measures have been taken to ensure that series-production units conform at all times to the requirements of current CE Directives and relevant standards. The signatories are empowered to represent and act on behalf of the company's management.

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GENERAL MANAGER


NOVEMBER 2003





Before starting, carefully read the engine maintenance and operating manual and follow all the instructions.



Never operate the machine without the belt guard.



Keep hands and feet away from moving parts while the engine is running.



Do not operate the machine in closed places and inflammable environments.



Use unleaded fuel only.



Stop the engine before refilling the fuel tank. Never refuel near a naked flame or sparks which could start a fire. Don't smoke. Use only pure fuel and clean filling equipment. Take care not to spill fuel.



Do not run the engine in a closed or badly ventilated room-danger of poisoning! Before starting the engine, ensure that no one is in the danger area close to the engine or equipment, and that all protective guards are fitted.



Operating the machine is advisable only with good lighting conditions.



Hearing protection must be worn.



Foot protection must be worn.



Do not touch hot surfaces.



Medical preventive measures associated with regular to hand-arm vibration: Any operator may have to expose his hands to vibratory tools should, prior to employment, be physically examined and:

- a. Previous history of exposure should be recorded.
- b. All individuals who use vibrating equipment should be advised of the risk of exposure to hand-arm vibration.
- c. Persons with the following medical conditions should be carefully assessed before they use vibrating equipment.
 - Primary Raynaud's disease.
 - Disease causing impairment of blood circulation to the hands.
 - Past injuries to the hand causing circulatory defects or deformity of bones and joints.
 - Other causes of secondary Raynaud's phenomenon.
- d. Provision should be made for the reporting of symptoms and arrangements made for medical check-ups, at regular intervals of those at risk.



Advice to individuals who use vibrating hand tools as follows:

- a. Wear adequate clothing to keep dry and maintain body core temperature at an acceptable level, and, when possible, wear suitable gloves when using vibrating equipment. Operator must wear safety shoes, safety glasses and special noise reducing headphones.
- b. Avoid or minimize smoking while using vibratory equipment since nicotine reduce the blood supply to the hands and fingers.
- c. Should attacks of white or blue finger or long periods of tingling and/or numbness occur, seek medical advice.
- d. Inform appropriate work supervisor if abnormal vibration occurs.



Never allow anyone to operate this equipment without proper training.



Never leave machine running unattended.



Always close fuel valve on engines equipped with one when machine is not being operated.



Always store equipment properly when it is not being used.
Equipment should be stored in a clean, dry location out of the reach of children.



Do not attempt to clean or service the machine while it is running.



Do not use gasoline or other types of fuels or flammable solvents to clean parts, especially in enclosed areas.



Always replace worn or damaged components with spare parts supplied by Shatal.

SAFETY INFORMATION LABEL LOCATIONS

ENGLISH



READ AND UNDERSTAND THE SUPPLIED OPERATOR'S MANUAL BEFORE OPERATING THIS MACHINE.

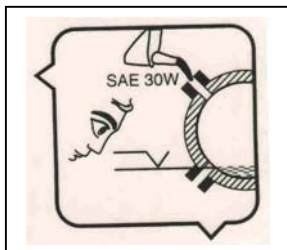
WEAR EAR PROTECTION

WEAR EYE PROTECTION

WEAR BOOTS



A NAMEPLATE LISTING THE MODEL NUMBER, ITEM NUMBER, IS ATTACHED TO EACH UNIT. PLEASE RECORD THE INFORMATION FOUND ON THIS PLATE SO IT WILL BE AVAILABLE SHOULD THE NAMEPLATE BECOME LOST OR DAMAGED. WHEN ORDERING PARTS OR REQUESTING SERVICE INFORMATION, YOU WILL ALWAYS BE ASKED TO SPECIFY THE MODEL, ITEM NUMBER OF THE UNIT.

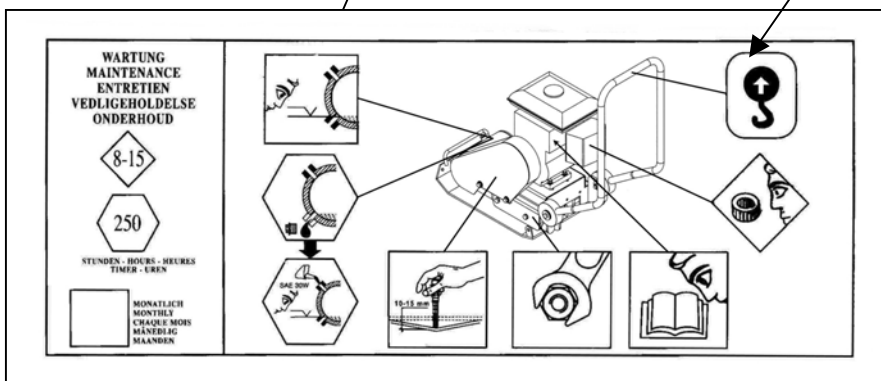


CHECK ENGINE OIL LEVEL SAE 30W

CAUTION LIFTING POINT



WARNING!
HAND INJURE IF CAUGHT IN MOVING BELT.
ALWAYS REPLACE BELT GUARD



MAINTENANCE CHART

TECHNICAL DATA

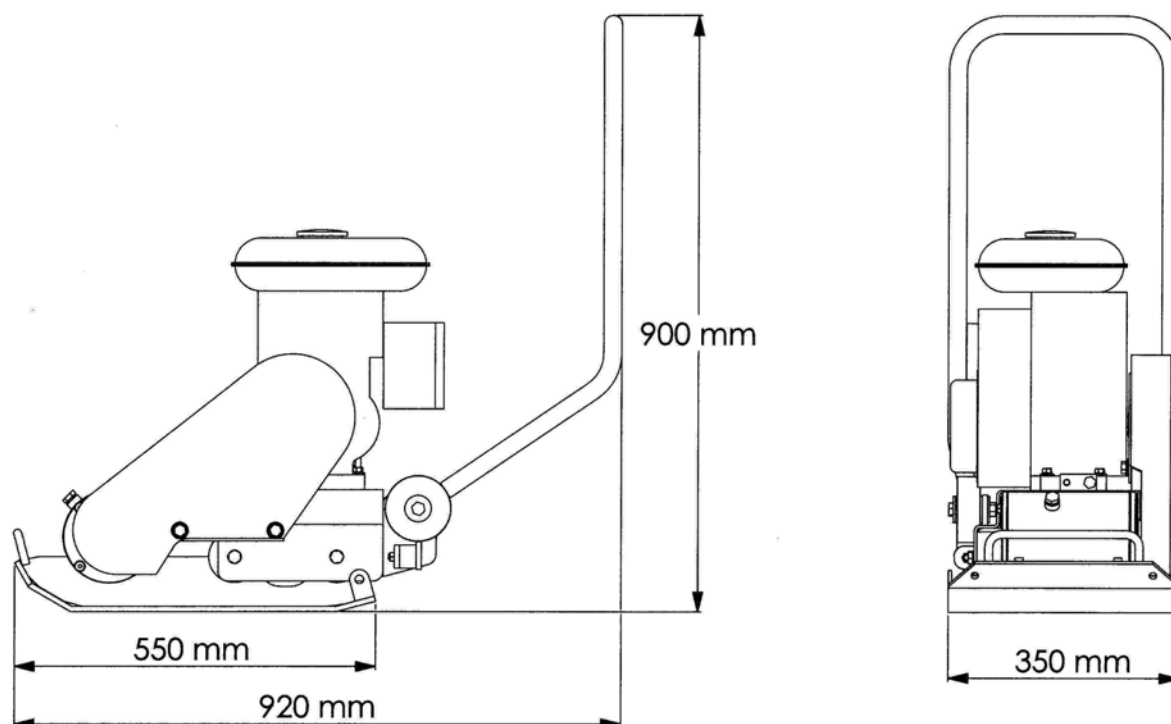
ENGLISH



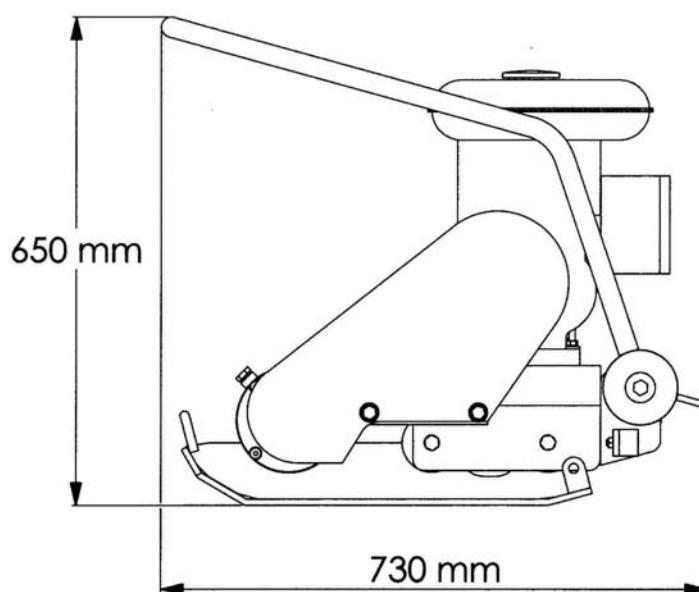
MODEL Cat. No.	PC-1112 ROBIN GASOLINE M11600.F	PC-1112 HONDA GASOLINE M11600.E
WEIGHT		
Net Weight Kg.	71	71
Operating Weight Kg.	73	73
COMPACTION DATA		
Vibr. Frequency Hz	93	93
Centrifugal Force Kg.	1100	1100
Compaction Area m ² /hour	300	300
OPERATING DATA		
Max. forward speed m/min	26	26
CAPACITIES		
Fuel tank liters	3.8	3.6
Engine oil SAE 15W/40 liters	0.6	0.6
Oil for exciter housing SAE 30 liters	0.13	0.13
ENGINE		
Model	Robin EY-20D Recoil start	Honda GX-160 Recoil start
Output HP	5HP	5.5HP
Engine speed rpm	3600	3600
NOISE AND VIBRATIONS		
Noise level	Sound pressure level at the operator's ear according to ISO 6394	
Low idle L _{pA} =dB(A)	72	71
High idle L _{pA} =dB(A)	84	82
Sound power level according to ISO 5349(*)		
Low idle L _{WA} =dB(A)	75	76
High idle L _{WA} =dB(A)	89	88
Vibration values a=m/s ²	The hand - arm vibration values according to ISO 5349	
	2. 4	2. 4

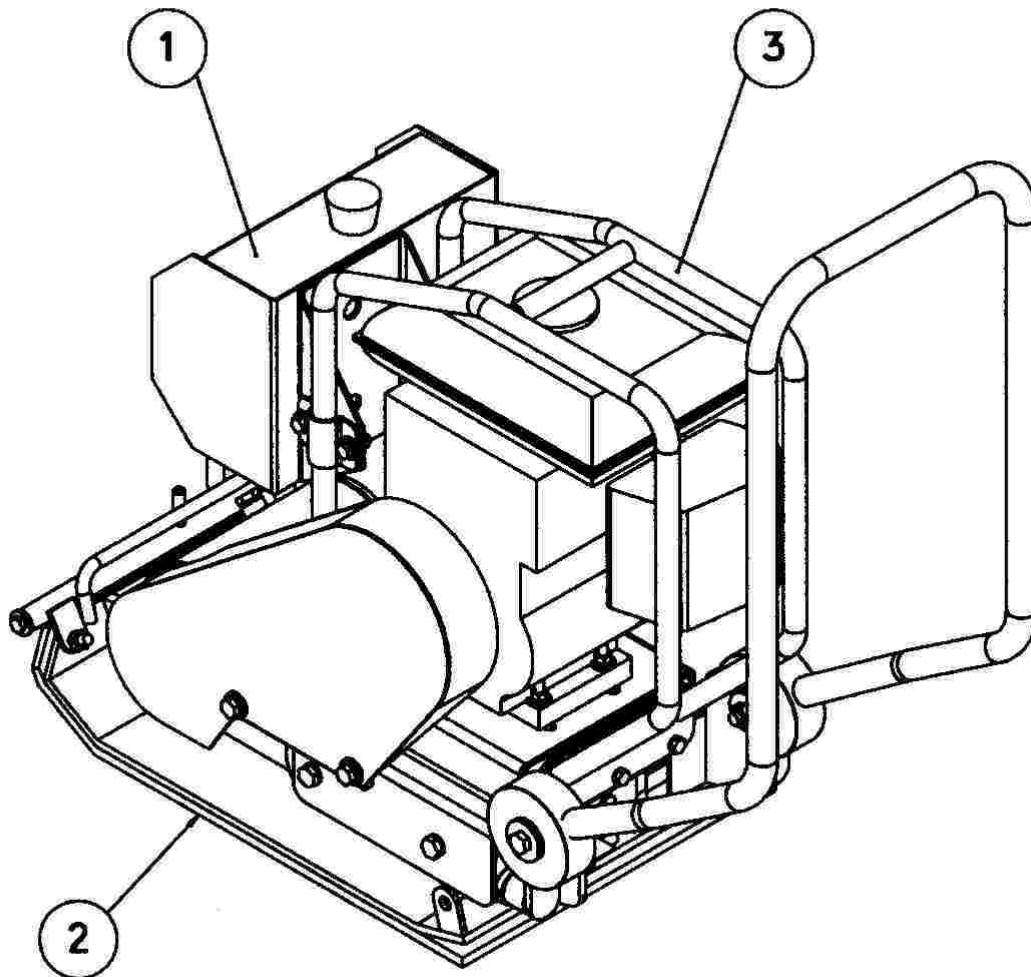
(*) The above noise level and vibration values were determined at normal speed of the engine with vibration on. The machine was placed on an elastic base. During operation these values may differ because of the actual operational conditions.

HANDLE IN THE WORKING POSITON



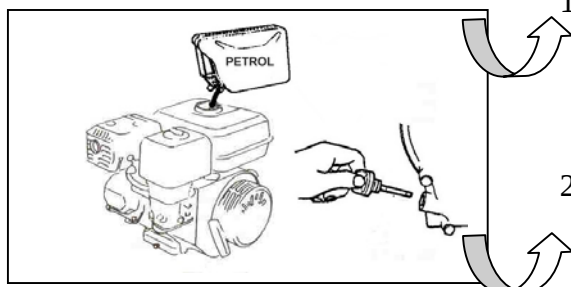
HANDLE IN THE FOLDING POSITON





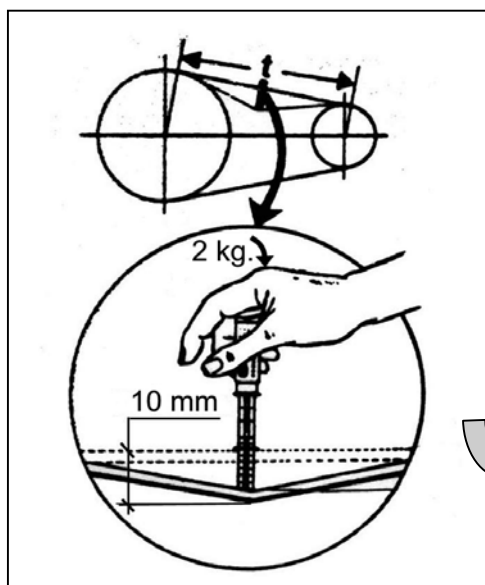
NO.	DESCRIPTION	PART NO.	QTY.
1	WATER TANK	P11805.E	1
2	VULCALON PLATE	P116280	1
3	CAGE	115113	1

BEFORE STARTING:



1. Fill fuel tank.

2. Check oil level in engine crankcase and add if necessary.

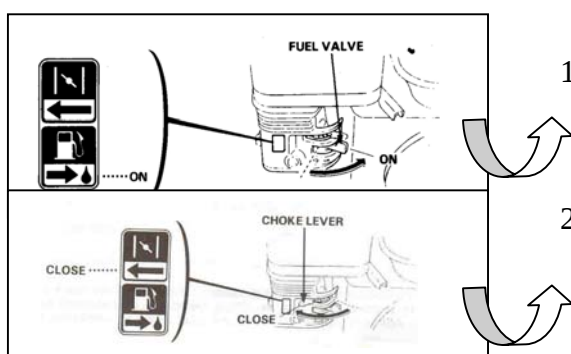


3. Make sure that all dirt, mud, etc. are thoroughly removed from the unit prior to operation. Special effort should be given to the bottom face of the vibrating plate and those areas adjacent to the cooling air inlet of engine and air cleaner.

4. Make sure that all bolts are tightened properly. Loose bolts may cause damage to the unit.

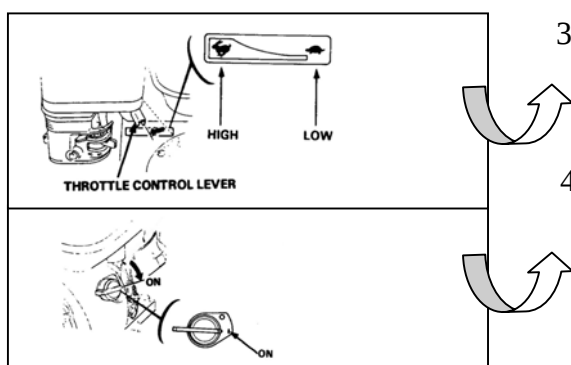
5. Check the V-belt for tightness. The normal slack should be approximately 10 mm. when the belts are forcibly depressed in the middle position between the two sheaves. If there is excess belt play, there could be a decrease in the impact force or erratic vibration, causing machine damage.

STARTING THE ENGINE:



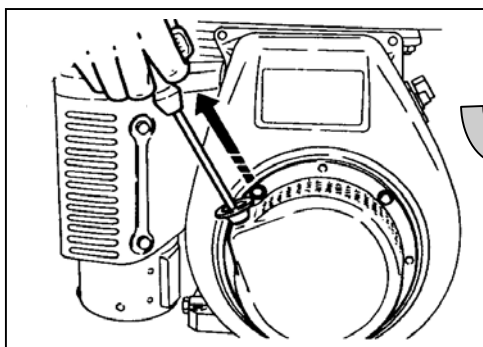
1. Turn the fuel valve to the "ON" position.

2. Move the choke lever to the close position.

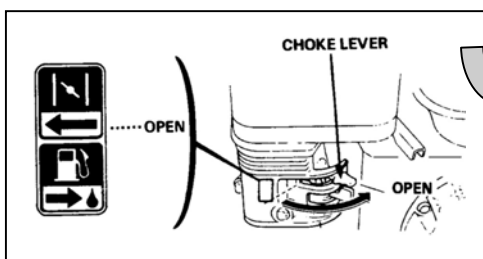


3. Move the throttle control lever slightly to the left.

4. Turn the engine switch to the on position.



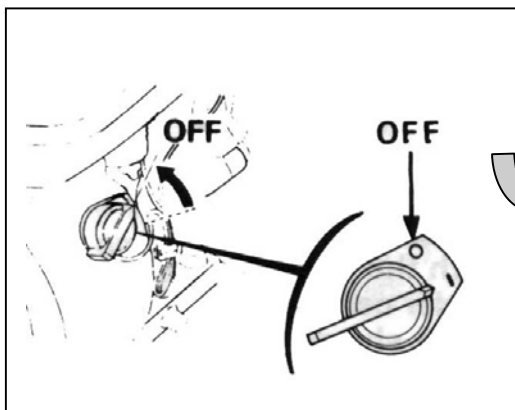
5. Start the engine with recoil starter.



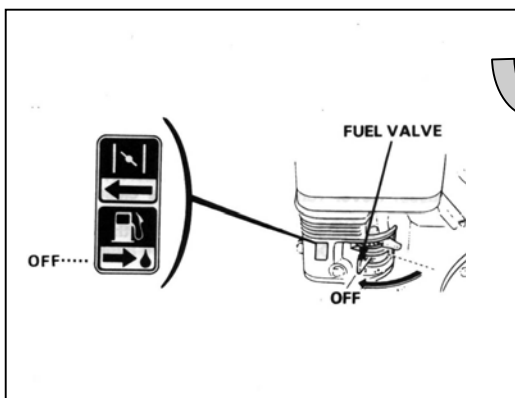
6. After starting the engine, return the choke lever gradually to the full open position.

7. Allow the engine to warm up at idle speed for 3-5 minutes. The warm-up procedure should particularly be followed in cold weather. While the engine is warming up, check the engine for fuel leaks or possible problems.

STOPPING:

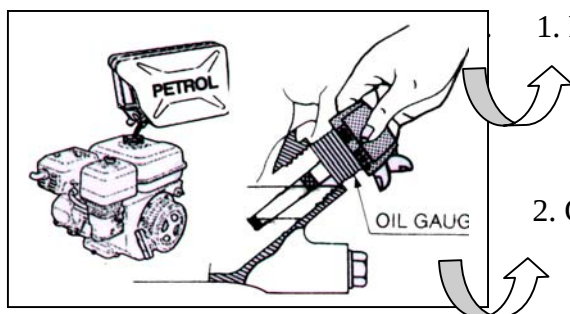


1. Turn the engine switch to the OFF position.



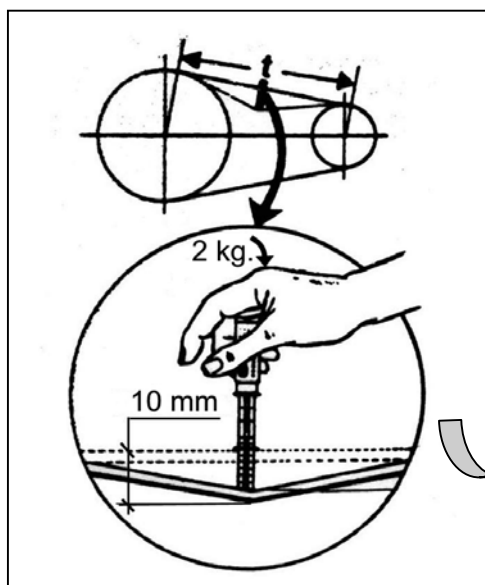
2. Turn the fuel valve to the OFF position.

BEFORE STARTING:



1. Fill fuel tank.

2. Check oil level in engine crankcase and add if necessary.

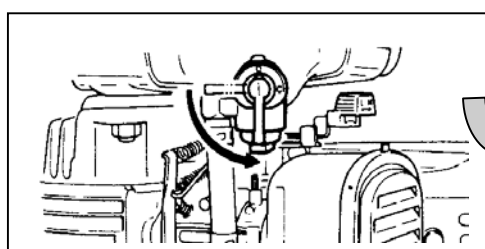


3. Make sure that all dirt, mud, etc. are thoroughly removed from the unit prior to operation. Special effort should be given to the bottom face of the vibrating plate and those areas adjacent to the cooling air inlet of engine and air cleaner.

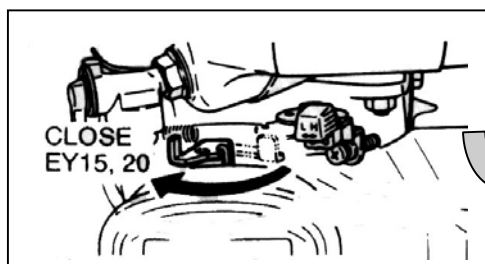
4. Make sure that all bolts are tightened properly. Loose bolts may cause damage to the unit.

5. Check the V-belt for tightness. The normal slack should be approximately 10 mm. when the belts are forcibly depressed in the middle position between the two sheaves. If there is excess belt play, there could be a decrease in the impact force or erratic vibration, causing machine damage.

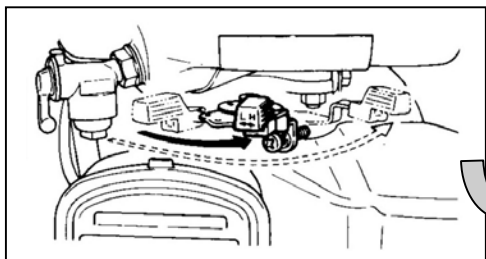
STARTING THE ENGINE:



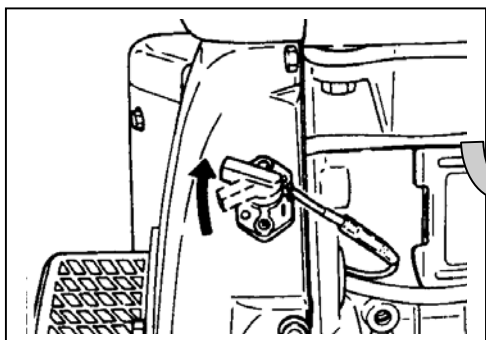
1. Turn the fuel valve to the "ON" position.



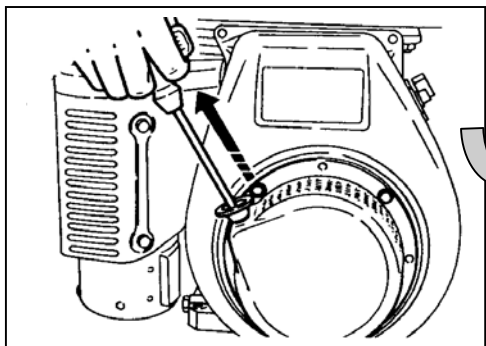
2. Move the choke lever to the close position.



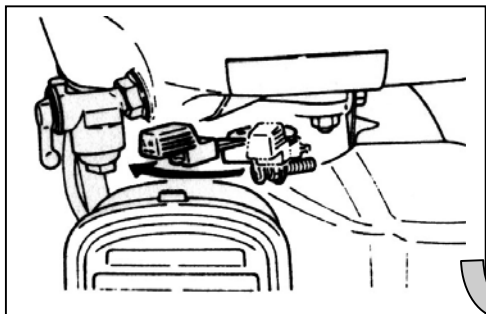
3. Move the throttle control lever slightly to the right.



4. Turn the engine switch to the ON (|) position.



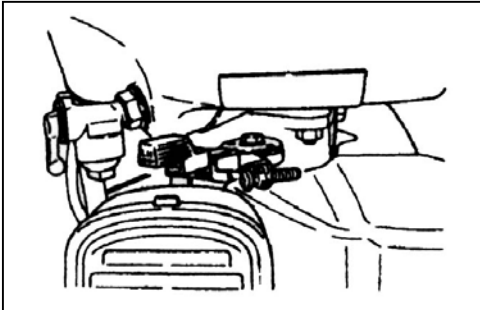
5. Start the engine with recoil starter.



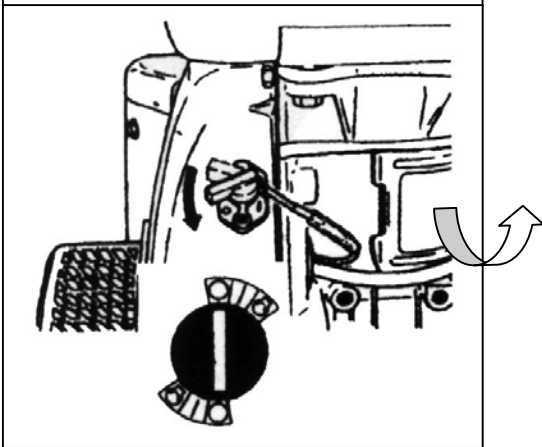
6. After starting the engine, return the choke lever gradually to the full open position.

7. Allow the engine to warm up at idle speed for 3-5 minutes. The warm-up procedure should particularly be followed in cold weather. While the engine is warming up, check the engine for fuel leaks or possible problems.

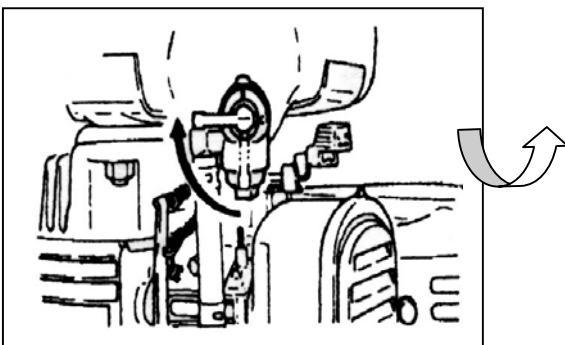
STOPPING:



1. Before shutting off the engine, allow the engine to idle For 2-3 minutes.



2. Turn the engine switch to the OFF (○)position.



3. Close the fuel cock by moving the lever to the horizontal position.

APPLICATION:

1. This plate compactor is designed for compacting loose, granular soils, gravel, and paving stones.
2. Compactors equipped with water tanks are designed for compacting asphalt.
3. Operate the compactor only at full throttle.
4. Let the compactor progress at its normal speed while guiding it in a straight line.
5. Three or four passes depending on the material are normally required to achieve the best compaction.
6. The soil must be moist to achieve the best compaction.
7. It must not be too wet nor too dry so that dust is created.
8. Do not operate the compactor on hard surfaces or concrete.
9. Attach a polyurethane plate under the compactor when compacting paving stones.
10. Fill the water tank with water and open the water flow valve when compacting asphalt.

TROUBLESHOOTING

Problem / Symptom	Reason / Remedy
Compactor advances slowly or poor compaction	• Engine throttle control not fully open. • Soil is too wet so that the plate is sticking. • Drive belt is loose or worn. Adjust or replace belt. • Air filter is clogged with dust, reducing engine performance. Clean or replace air filter. • Engine speed too low. Adjust or repair engine so that it runs at the correct speed.
Engine running but no plate vibration	• Engine throttle not open. • Drive belt loose or broken. Adjust or replace. • Clutch damaged. Inspect and replace clutch. • Engine speed too low. Check engine speed. • Too much oil in exciter. Remove oil to correct level.
Plate jumps or compacts unevenly	• Ground surface too hard. • Defective antivibration mountings – check antivibration mounting and replace if necessary.

STORAGE

- Clean base plate.
- Clean engine cylinder cooling fins.
- Clean or replace air filter.
- Change exciter oil.
- Change engine oil and follow procedures described in engine manual for engine storage.
- Cover machine and store in a clean, dry place.

PERIODIC MAINTENANCE SCHEDULE

The chart below lists basic engine maintenance. Refer to engine manufacturer's Operation Manual for additional information on engine maintenance. •

	Daily before starting	After first 20 hrs.	Every 2 weeks or 50 hrs.	Every month or 100 hrs.	Every year or 300 hrs.
Check fuel level and fill.	•				
Check engine oil level and top up.	•				
Inspect fuel lines.	•				
Inspect air filter. Replace as needed.	•				
Check and adjust drive belt.		•	•		
Clean air cleaner elements.			•		
Inspect shockmounts for damage.			•		
Change engine oil.		•		•	
Clean cooling system.				•	
Clean sediment cup / fuel filter.				•	
Check and clean spark plug.				•	
Check and adjust valve clearance.					•
Change exciter oil.					•

CLEANING COMPACTOR

- Remove all dirt, stones etc. from the compactor after each day of operation.
- Keep engine fins clean.

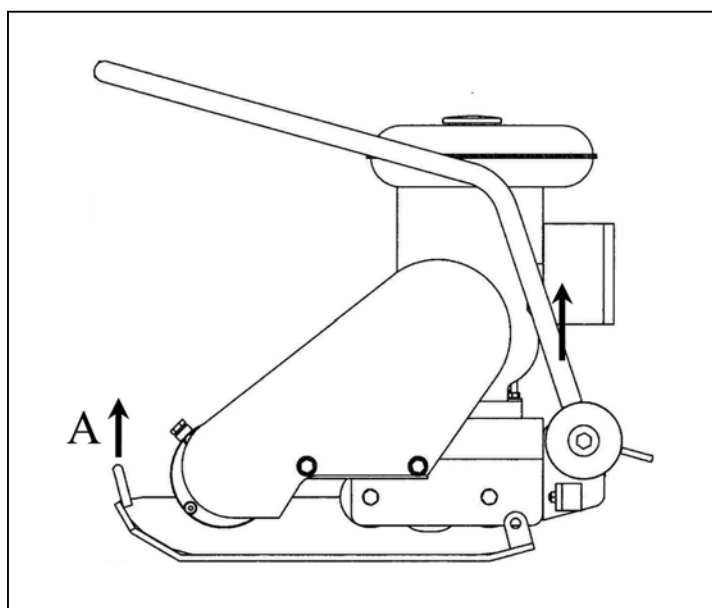
LIFTING MACHINE

TO LIFT MACHINE MANUALLY:

- Stop the engine.
- Obtain help from a partner and plan the lift.
- Hold the machine by its operating handle and lifting handle (A).
- Lift the machine as shown.



Lift machine carefully with the correct posture.



INSTRUCTIONS FOR LIFTING MACHINE



Never walk or stand under a machine being lifted.



Use only the operating handle (1) for lifting the machine.



Use only tested and authorised lifting equipment. Before lifting check that vibration damper (2) and protecting frame are correctly attached and not damaged.

TRANSPORTING



To avoid burns or fire hazards, let engine cool before transporting machine or storing indoors.



Turn fuel valve to the off position and keep the engine level to prevent fuel from spilling.



Tie the machine to the vehicle to prevent sliding or tipping over.

Please State Machine Details in the Following Sequence:

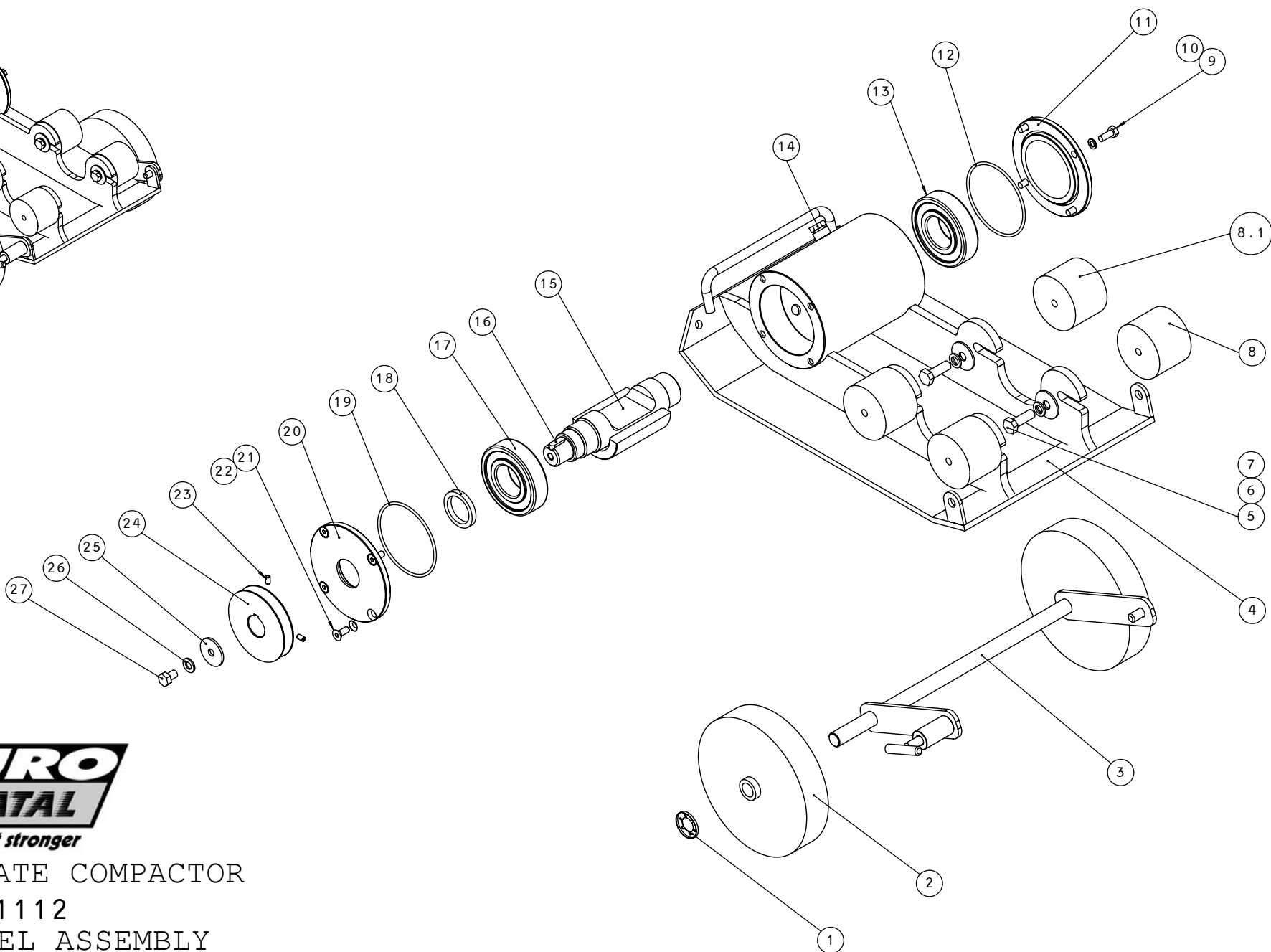
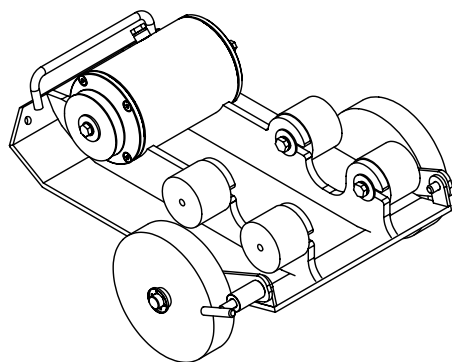
- Machine Serial Number
- Part Number, Description and Quantity of Parts
- Full Delivery Address

Manufacturers Liability and the Use of Genuine Spare Parts

Liability for this machine is accepted only when the machine is defective from the outset. Liability is reduced or nullified in the event that the user fails to comply with the operating and maintenance instructions and uses spare parts which are not guaranteed.

Contents

Base and Wheel Assembly	21
Box Assembly for Engine Robin EY20 & Honda GX160	23
Water System	26
Vulcalon Plate	28



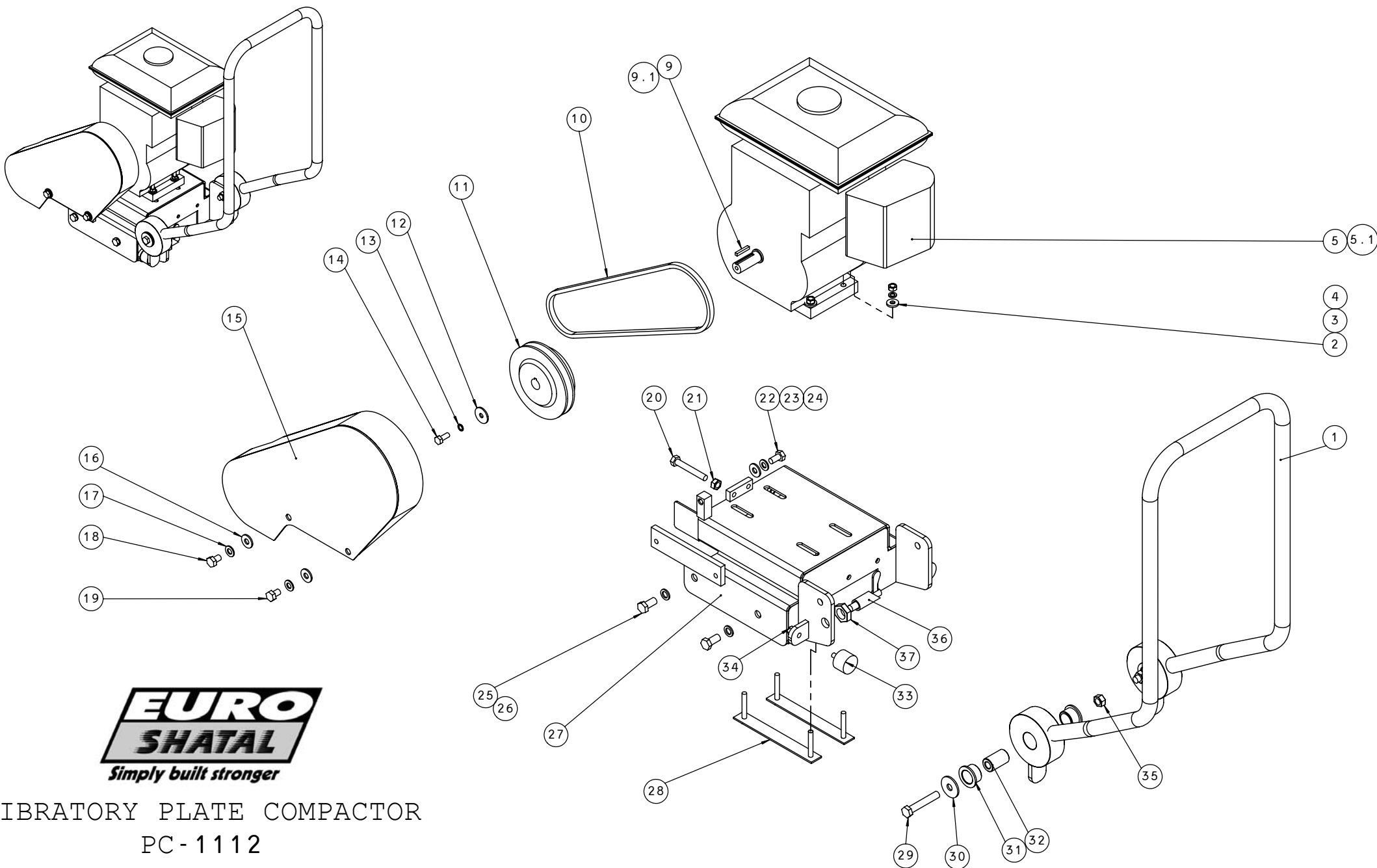
VIBRATORY PLATE COMPACTOR
PC - 1112
BASE AND WHEEL ASSEMBLY
(SEE PARTS LIST PAGE - 22)

FIRST EDITION - OCTOBER 2003

SPARE PARTS LIST BASE AND WHEEL ASSEMBLY PC-1112

NO.	DESCRIPTION	PART NO.	QTY.
1	STAR LOCK 20	118435	2
2	WHEEL Ø 200 (8")	51700	2
3	AXLE ASSEMBLY WITH QUICK RELEASE (WHEEL NOT INCLUDED)	116430	1
4	BASE PLATE WITH ECCENTRIC HOUSE	116269	1
5	HEXAGON HEAD SCREW DIN 933-M12X35	/	4
6	SPRING WASHER 127B -12	/	4
7	WASHER Ø40XØ12.5X3.	/	4
8	ANTI VIBRATION MOUNTING 40 SCHOR	40527	2
8.1	ANTI VIBRATION MOUNTING 60 SCHOR	40527.1	2
9	HEXAGON HEAD SCREW DIN 933-M8X20	/	4
10	SPRING WASHER 127B -8	/	4
11	REAR COVER	11805	1
12	O-RING Ø100X3	11828	1
13	BALL BEARING 6309.C3	P50938	1
14	OIL PLUG 3/8" B.S.P	11729	2

NO.	DESCRIPTION	PART NO.	QTY.
15	ECCENTRIC SHAFT	11701	1
16	SHAFT KEY 8X7X25	32198	1
17	BALL BEARING 6309.C3	P50938	1
18	OIL SEAL Ø40X Ø52X7	B40033900	1
19	O-RING Ø100X3	11828	1
20	FRONT COVER	11804	1
21	HEXAGON SOCKET COUNTERSUNK HEAD SCREW DIN 7991-M8X20	118914	4
22	COUNTERSUNK SERRATED LOCK WASHER DIN6798-M8	118915	4
23	HEXAGON SOCKET SET SCREW DIN 913-M6X10	128940	2
24	PULLEY Ø95X1SPZ.	P51119	1
25	WASHER Ø40X Ø10.5X3	/	1
26	LOCKING DISC SPRING M10	116901	1
27	HEXAGON HEAD SCREW DIN 933-M10X20	/	1



VIBRATORY PLATE COMPACTOR
PC-1112

BOX ASSEMBLY FOR ENGINES
ROBIN EY20 & HONDA GX160

(SEE PARTS LIST PAGES-24;25)

SPARE PARTS LIST BOX ASSEMBLY FOR ENGINE ROBIN EY20 & HONDA GX160 PC-1112

NO.	DESCRIPTION	PART NO.	QTY.
1	HANDLE	116415	1
2	WASHER Ø21X Ø8.4X3	/	4
3	SPRING WASHER 127B - 8	/	4
4	HEXAGON NUT DIN934-M8	/	4
5	ROBIN GASOLINE EY -20 (5HP)	I 50355.M	1
5.1	HONDA GASOLINE GX -160(5.5HP)	I 50200.M	1
9	KEY FOR ROBIN EY-20 3/16"X3/16"X1 3/4"	/	1
9.1	KEY FOR HONDA GX160	90741-883-810	1
10	V-BELT SPZ-LA975	508975.Z	1
11	CENTRIFUGAL CLUTCH PULLEY BORE 20X Ø138X1SPZ	P50745.D	1
12	WASHER Ø30X Ø9 X3	/	1
13	LOCKING DISC SPRING M8	116900	1

NO.	DESCRIPTION	PART NO.	QTY.
14	HEXAGON HEAD SCREW DIN 933-M8X20	/	1
15	BELT GUARD	115164	1
16	WASHER Ø30X Ø10.5X3	/	2
17	SPRING WASHER 127B – 10	/	2
18	HEXAGON HEAD SCREW DIN 933-M10X20	/	1
19	HEXAGON HEAD SCREW DIN 933-M10X15	/	1
20	HEXAGON HEAD SCREW DIN 933-M10X60	/	1
21	HEXAGON NUT DIN934-M10	/	1
22	HEXAGON HEAD SCREW DIN 933-M10X20	/	1
23	SPRING WASHER 127B - 10	/	1
24	WASHER Ø30X Ø10.5X3	/	1
25	HEXAGON HEAD SCREW DIN 933-M12X25	/	4

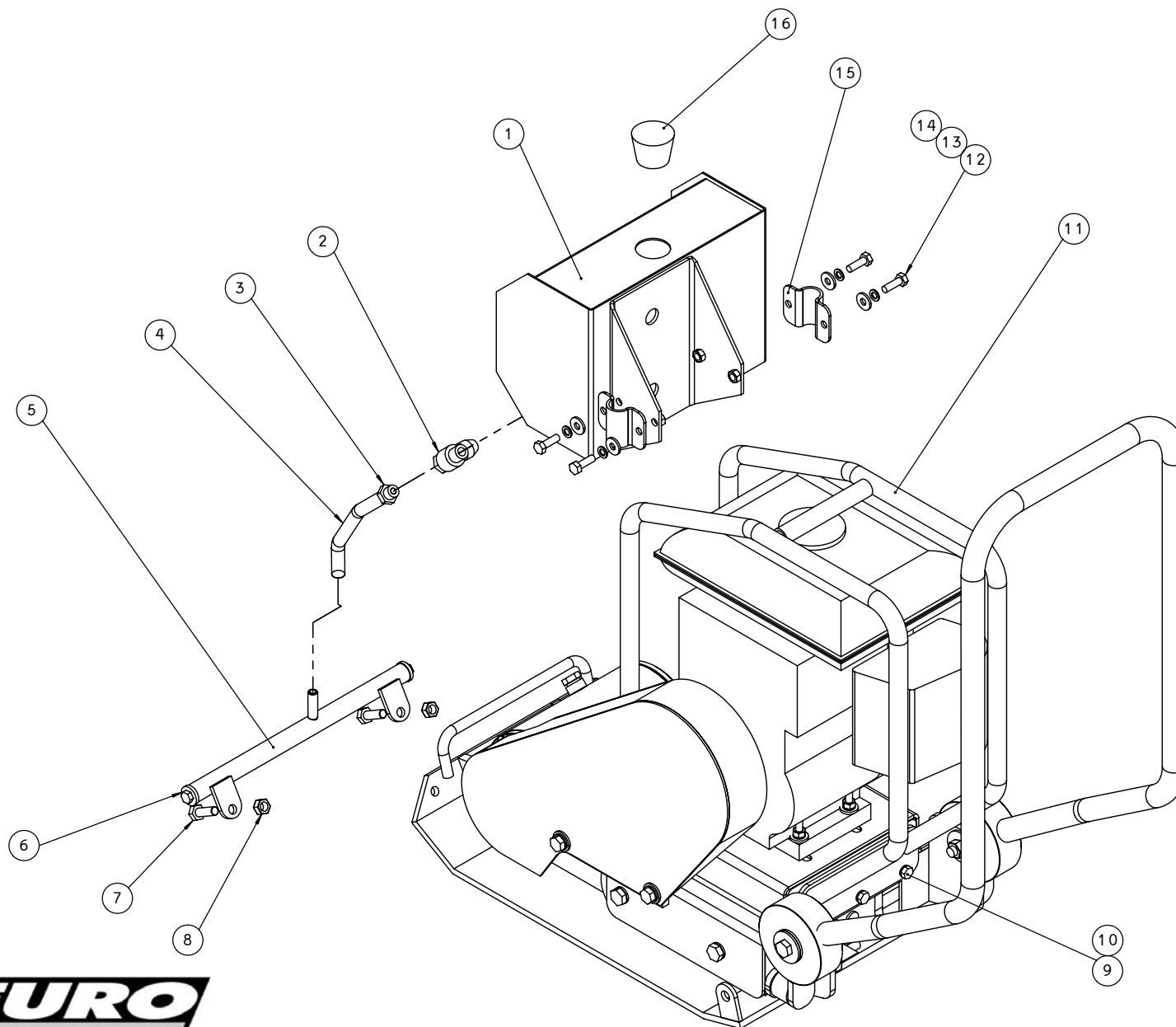


ENGLISH

**SPARE PARTS LIST
BOX ASSEMBLY FOR ENGINE
ROBIN EY20 & HONDA GX160
PC-1112**

NO.	DESCRIPTION	PART NO.	QTY.
26	SPRING WASHER 127B - 12	/	4
27	ENGINE BOX	116325	1
28	ENGINE BOLT BRACKET	11721	2
29	HEXAGON HEAD SCREW DIN 933-M12X70	/	2
30	WASHER Ø40X Ø12.5X3	/	2
31	OKOLON BEARING	31124	4
32	STEEL BUSH	11810	2

NO.	DESCRIPTION	PART NO.	QTY.
33	RUBBER BUFFER	115320	2
34	SELF LOCKING NUT M8	/	2
35	SELF LOCKING NUT M12	/	2
36	LOCKING PIN WITH THREAD	11855.1	1
37	HEXAGON NUT M20X10	116905	1

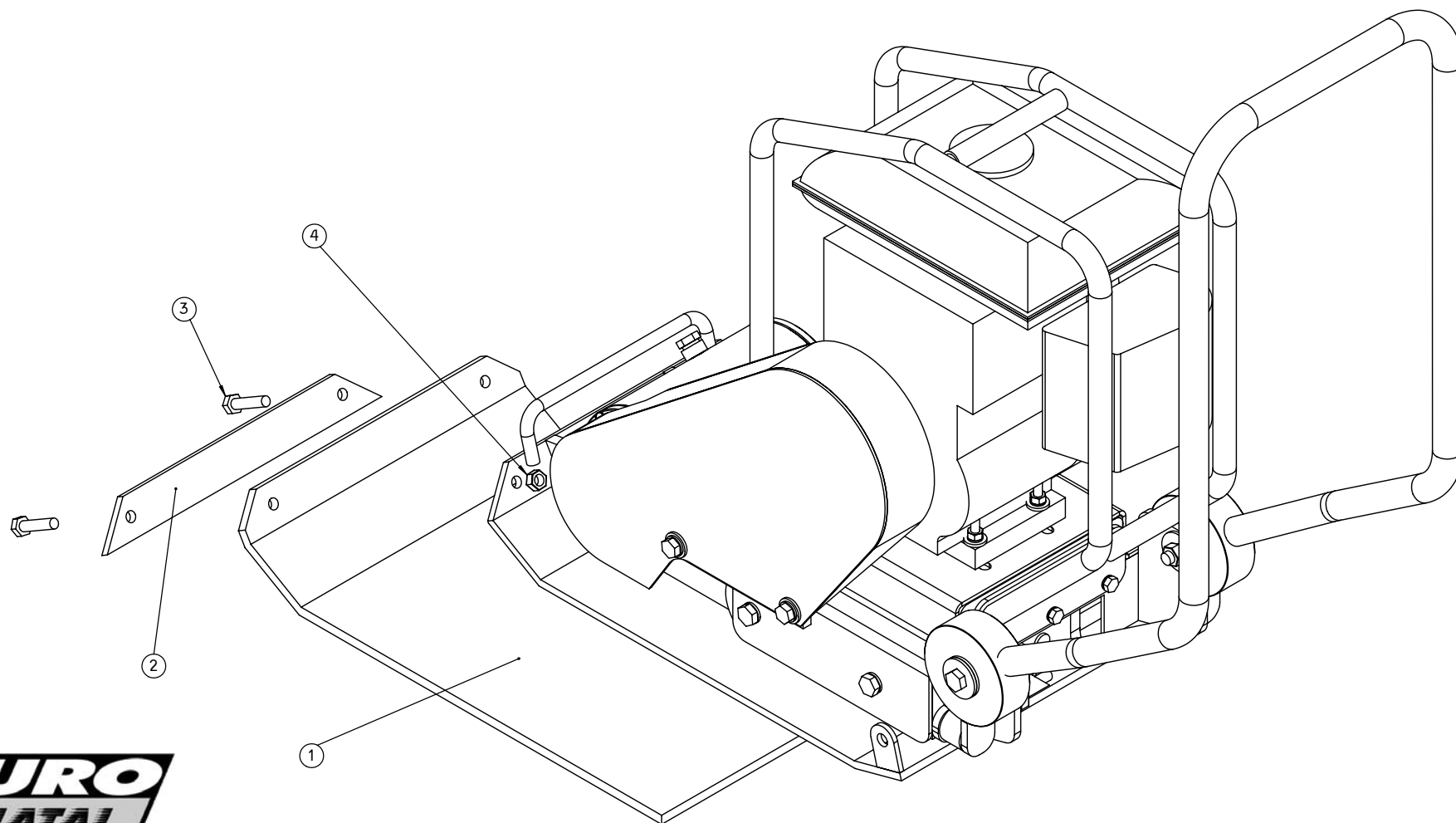


VIBRATORY PLATE COMPACTOR
 PC 1112
 WATER SYSTEM (OPTIONAL)
 (SEE PARTS LIST PAGE - 27)

NO.	DESCRIPTION	PART NO.	QTY.
1	WATER TANK	115170	1
2	BALL VALVE 3/8" B.S.P	30507	1
3	ELBOW HOSE CONNECTOR Ø3/8"	30902.4	1
4	PLASTIC HOSE Ø 3/8"	311937	0.4m
5	WATER PIPE	116710	1
6	RUBBER PLUG FOR WATER PIPE	11829	2
7	HEXAGON HEAD SCREW DIN 933-M10X25	/	2
8	SELF LOCKING NUT M10	/	2
9	HEXAGON HEAD SCREW DIN 933-M8X25	/	4
10	SPRING WASHER 127B -8	/	4
11	CAGE	115113	1
12	HEXAGON HEAD SCREW DIN 933-M8X25	/	4
13	SPRING WASHER 127B -8	/	4
14	WASHER Ø21XØ8.5X2.5	/	4
15	WATER TANK HOLDER	117724	2
16	RUBBER PLUG	30322	1

NOTE: WATER TANK COMPLETE

P11805.E



VIBRATORY PLATE COMPACTOR
PC1112
VULCALON PLATE (OPTIONAL)
(SEE PARTS LIST PAGE-29)

NO.	DESCRIPTION	PART NO.	QTY.
1	VULCALON PLATE	116280	1
2	PLATE	116281	1
3	HEXAGON HEAD SCREW DIN 933-M10X45	/	2
4	SELF LOCKING NUT M10	/	2



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PURCHASE ORDER

PC1112 VIBRATORY PLATE COMPACTOR

**FAX YOUR SPARE PARTS REQUIREMENTS
TO THE NEAREST SERVICE STATION.**

COMPANY'S NAME: -----

ADDRESS: -----

COUNTRY: -----

TELEPHONE: -----

FAX: -----

MACHINE SERIAL NO: -----

NO.	PART NO.	DESCRIPTION	QTY.	REMARKS

SHIPPING METHODS: BY AIR ☐ BY SURFACE ☐ BY SEA ☐

SENDER'S NAME: -----

SIGNATURE: -----

