Operating Instruction and Parts Manual for





www.asphaltkingdom.com 1-866-399-5562 **WARNING**: To reduce the risk of injury, all operators and maintenance personnel must read and understand these instructions, before operating, changing accessories, or performing maintenance on our equipment. All possible situations can not be covered in these instructions. Care must be exercised by everyone using, maintaining or working near this equipment.

INTRODUCTION

Thank you for your selection for our equipment.

We have taken care in the design, manufacture and testing of this product. It is covered by a six month warranty. Should service or spare parts be required, prompt and efficient service is available from our company or our agent.

GENERAL SAFETY INSTRUCTION FOR THE OPERATION OF POWER EQUIPMENT

The goal of our company is to produce power equipment that helps the operator work safety and efficiently. The most important safety device for this or any tool is the operator. Care and good judgment are the best protection against injury. All possible hazards can not be covered here, but we have tried to highlight some of of the important items, individuals should look for and obey caution. Warning and Danger signs placed on equipment, and displayed in the workplace. Operators should read and follow safety instructions packed with each product. Learn how each machine works. Even if you have previously used similar machines, carefully check out each machine before you use it. Get the "feel" of it and know its capabilities. Limitations, potential hazards, how it operates, and how it stops.

APPLICATIONS

Trench compaction • Earth works • Road maintenance • Landscaping • Brickpaving • Driveway toppings

FUNCTIONS AND CONTROLS

The motor is controlled by an ON/OFF switch or push button which is mounted on the motor below the fuel tank. Tension of the drive belt is adjustable. Loosen the four nuts on the bolts which secure the motor to the baseplate. Adjust the set screws which bear against the motor crankcase to achieve the required belt tension. Ensure that the four nuts and the set screw locknuts are tightened after adjustment.

ACCESSORIES

Transportation Trolley-facilitates handling, Hooks into the base plate. Fitted with 200mm rubber tyres.

HAZARDS AND RISKS

NEVER allow any person to operate the machine without adequate instruction.

ENSURE all operators read, understand and follow the operating instructions.

SERIOUS INJURY could result from improper or careless use of this machine.

Plates compactors are heavy units and should be positioned by two people of appropriate strength.

Using the lifting handles provided on the machine. along with correct lifting techniques.

MECHANICAL HAZARDS!

DO NOT operate the machine unless all protective guards are in place.

KEEP handles and feet clear of rotating and moving parts as they will cause injury if contacted.

ENSURE that the motor operation switch is in the OFF position and the spark plug ignition lead is disconnected before removing the guards or making adjustments.

ENSURE both the machine and the operator are stable by setting up on level terrain and the machine will not tip over. slide off all while in operation or unattended.

DO NOT leave the machine in operation while it is unattended.

ENSURE that the walls of a trench are stable and will not collapse due to the action of the vibration, prior to commencing compaction.

EUSURE that the area to be compacted does not contain any "live" electrical cables, gas, water or communication services which many be damaged by the action of vibration.

EXERCISE CARE when operating unit. Exposure to vibration or repetitive work actions may be harmful to hands and arms.

NEVER stand on the unit while it is operating.

DO NOT increase the governed no-load motor speed above 3,500 r/min. Any increase may result in personal injury and damage to the machine.

BE CAREFUL not to come in contact with the muffler, when the engine is hot, since it can cause severe burns.

ENSURE that the repairs to the motor and machine are carried out by COMPETENT personnel

FIRE & EXPLOSION HAZARDS!

PETROL is extremely flammable and explosive under certain conditions;

ENSURE that the petrol is only stored in an approved storage container.

DO NOT refuel the motor while it is in operation or hot.

DO NOT refuel the motor in the vicinity of sparks, a naked flame or a person smoking.

DO NOT over fill the fuel tank and avoid spilling petrol when refueling .Spilled petrol or petrol vapor may ignite. If spillage occurs, ensure that the area is dry before starting the motor,

ENSURE that the fuel tank cap is securely fitted after refueling.

CHEMICAL HAZARDS!

DO NOT operate or refuel a petrol or diesel motor in a confined area without adequate ventilation.

CARBON MONOXIDE exhaust gases from internal combustion motor driven units can cause death in confined spaces.

NOISE HAZARDS!

EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.

WEAR an approved hearing protection device to limit noise exposure. As required by Occupational Health and Safety regulation.

PROTECTIVE CLOTHING

ALWAYS wear approved hearing protection when working in a confined work space. Protective goggles and a dust mask should be worn when working in a dusty environment. Protective clothing and footwear may also be desirable when working with hot mix bitumen.

ADDITIONAL HAZARDS!

Slip/Trip/Fall is a major cause of serious injury or death. Be aware of uneven or slippery work surfaces.

Exercise care when working in the vicinity of unprotected holes or exca

OPERATION

Pre start-up inspection

The following Pre-start-up inspection must be performed before the start of each work session or after every four hours of use. Which ever is first. If any fault is discovered, the compactor must not be used until the fault is rectified.

- 1. Thoroughly inspect the compactor for signs of damage. Check components are present and secure. Pay special attention to the belt drive safety guard fitted between the engine and the vibrator unit.
- 2. Check the engine oil level and top up as necessary
- 3. Check the engine fuel level and top up as necessary
- 4. Check for fuel and oil leaks

Start and stop Procedure for Petrol Engine

- 1. Open the fuel tap by moving the fuel ON/OFF lever fully to the right.
- 2. If starting the engine from cold, set the choke ON by moving the choke lever fully to the left. If restarting a warm engine, he choke is usually not required. However, if the engine has cooled to a degree, partial choke may be required.
- 3. Turn the engine ON/OFF switch clockwise to the "1" position.
- 4. Set the throttle to the idle position by moving the throttle lever fully to the right. Do not start the engine on full throttle, As the compactor will vibrate as soon as the engine starts.
- 5. Taking a firm hold o the control handle with one hand, grasp the recoil starter handle with the other., pull the recoil starter until engine resistance is felt. Then let starter return.
- 6. Taking care not to pull starter's cope fully out. pull the starter handle briskly.
- 7. Repeat until the engine fires.
- 8. Once the engine fires gradually, set the choke lever to the OFF position by moving It to the right.
- 9. If the engine fails to fire after several attempts, follow the trouble-shooting guide on page 5.
- 10 .To stop the engine, set the throttle to idle and turn the engine ON/OFF switch anticlockwise o the "0" position.
- 11. Turn the fuel off

The machine is best suited to the compaction of bituminous and granular materials e.g. granular soils such as silt and clay are best compacted using the impact force produced by a vibrating rammer.

Where possible the site should be graded and leveled before commencing compaction.

For more information of starting and correct operating procedures of the motor, refer to the motor operation manual supplied with the unit.

Increase the motor sped to the maximum setting using the hand throttle lever, before commencing compacting. The machine should be controlled by grasping the handle with supplied with the unit.

Increase the motor sped to the maximum setting using the hand throttle lever, before commencing compacting. The machine should be controlled by grasping the handle with both hands and applying restraint to control the forward motion.

Steer the machine by moving the handle sideways to the right or left;

ALWAYS maintain good footing so that you do not slip and loose control when starting or operating the machine; Inspection the water hose and its connections to ensure that they do not leak.

CARE AND PREVENTIVE MAINTENANCE

Check the oil level in the motor crankcase daily.

Check the vibrator oil level weekly.

Inspect the rubber anti vibration mounts for wear or deterioration.

Inspection the water hose and its connections to ensure that they do not leak.

Clean the underside of the plate regularly to prevent a build up of material.

Use unleaded grade petrol and ensure that the fuel is free from contamination.

The vibratory motion provides a self propelling action.

Position the handle at the opposite end of the machine to the vibrator.

Start the motor using the recoil starter.(If the motor is fitted with an on/off switch this must first be turned to ON before starting.)

Correct moisture content in soil is vital to proper compaction.

Water acts as a lubricant to help slide soil particles together.

Too little moisture means inadequate compaction; too much moisture leaves water-filled voids that weaken the soil's load bearing ability.

Compaction of dry materials will be facilitated by moistening with a water hose fitted with a sprinkler.

Excessive watering or water content will cause the machine to stall.

The optional water tank kit is recommended when the machine is used on bituminous surfaces as the water fulm prevents A build up of material on the underside of the plate.

CAUTION



Inspection and other services should always be carried out on hard and level ground with the engine shut down.

Inspection and maintenance Service Tables

To make sure your plate compactor is always in good working condition before using. carry out the maintenance inspection in accordance with Tables 1 through 3.

TABLE 1. MACHINE INSPECTION

ITEM	Hours of Operation
(Starting Check)	Every8 hours (every day)
Loosened of lost screws	Every8 hours (every day)
Damage of any part	Every8 hours (every day)
Function of controlling system part	Every8 hours (every day)
Vibrator oil check	Every 100 hours
Vibrator oil replacement	Every 100 hours
V-belt (Clutch)	Check Every 100 hours

TABLE 2.ENGINE CHECK

(For details, see separate engine manual)			
ITEM	Hours of Operation		
Leakage of oil fuel	Every8 hours (every day)		
Tightness of fastening Threads	Every8 hours (every day)		
Engine oil check and replenishment	Every8 hours (every day)		
	(Replenish to specified Max. Level)		
Engine oil replenishment	At first 20 hours, then every 100 hours		
Air cleaner cleaning	Every 50 hours		

CAUTION A



These inspection intervals are for operation under normal conditions. Adjust your inspection intervals based on the number hours plate compactor is in use, and particular working conditions.

CAUTION



Fuel piping and connections should be replaced every 2 years.

Daily Service

Check for leakage of fuel or oil.

Remove soil and clean the bottom of compaction plate.

Check for loose screws including tightness. See Table 3 below (Tightening torque), for retightening.

TABLE 3
TIGHTENING TORQUE (in.kg/cm) Diameter

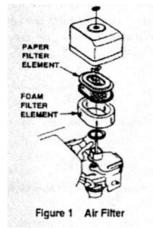
Material	6mm	8mm	10mm	12mm	14mm	16mm
4T	70	150	300	500	750	1100
6-8T	100	250	500	800	1300	2000
11T	150	400	800	1200	2000	2900

Changing Vibrator Oil

When changing the vibrator oil, remove the drain plug located at the bottom-right of the vibrator, and simply tip the compactor to drain the oil. Note that the oil will drain more easily while it is hot. Replace the oil with 200ML of 10W-30 motor oil.

Air Filter

- 1. The air filter element should be cheaned because a clogged air cleaner can cause poor engine starting, lack of power and shorten engine life substantially.
- 2.To clean or replace air filter loosen the wing nut on the air filter housing (Figure 1), remove the cover and take out air filter cartridge. If only cheaning of the air filter is desired blow through the air filter cartridge from the inside, moving a jet of dry compressed air up and down until all dust is removed.



NEVER attempt to check the V-belt with the engine running. Severe injury can occur if your hand gets caught between the V-belt and the clutch. Always use safety gloves.

Checking and Replacing the V-belt and Clutch

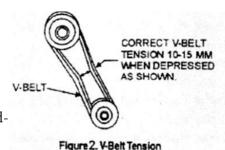
After 200 hours of operation, remove the upper belt cover to check the V-belt tension (Figure 2). Tension is proper if the belt bends about 10mm when depressed strongly with finger between shafts. Loose or worn V-belts reduce power transmission efficiency, cause weak compaction and reduces the life of the belt itself.

CAUTION:

Whenever the compactor's vibration becomes weak or lost during normal operation regardless of operation hours, check the V-belt and clutch immediately.

Replacing the V-belt

Remove the upper and lower belt covers, Engage an offset wrench (13mm) or the like to vibrator pulley (Lower)fastening bolt. Engage waste cloth or the like at midway of V-belt on the left side and while pulling it back strongly, rotate the offset wrench clockwise so that the V-belt will come off.



Reinstalling the V-belt

Engage V-belt to the lower vibrator pulley and push the V-belt to the left side of upper clutch and, in the same manner as in removal, rotate offset wrench clockwise so that the V-belt goes back on.

Checking Clutch

Check the clutch simultaneously with V-belt checking. With belt removed, check outer drum of the clutch for seizure and "V' groove for wear or damage with your eyes. Clean the "V" groove as necessary. Wear of lining or shoe should be checked with running check. If the shoe is worn, power transmission becomes deficient and slipping will result.

KPC160W PLATE COMPACTOR

Model	KPC160WH	KPC160WK				
Engine	Air-cooled,single cylinder,4-stroke					
Engine Type	Petrol,Honda GX160	Petrol,Robin EY20	Petrol,Loncin G160F	Diesel,Kipor170F		
Power (hp)	5.5(4.0kw)	5.0(3.7kw)	5.5(4.0kw)	3.8(2.8kw)		
Weight (kg)	84(185 lbs)	84(185 lbs)	84(185 lbs)	94(208 lbs)		
Centrifugal force	13					
Frequency (vpm)		5500(92Hz)				
Compaction depth (cm)		30(12in)				
Travel speed (cm/s)		23(9in/s)				
Efficiency (m2/hr)	405(4358 ft2/hr)					
Plate Size (cm)	53×50(21×20in)					
Dimension (cm)	110×50×85(43×20×33in)					
Optional	with water tank, additional weight 6 kgs					

Drive Belt: 1×"B" section vee belt

Acoustic Noise (According to 2000/14/EC)

Model No.	KPC160W
Measured Sound Power Level	101.5dB
Guaranteed sound power level	104.50dB
Uncetainly	3dB

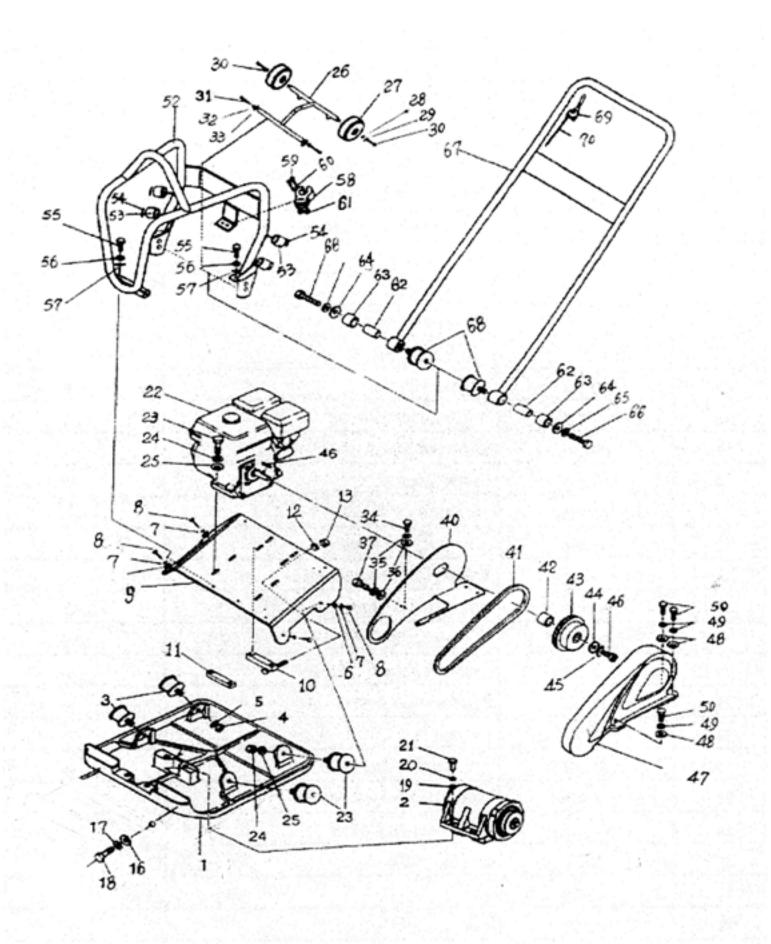
TRANSPORTATION

- 1. Always shut off engine when transporting machine.
- 2. Make sure lifting device has enough capacity to hold machine (see identification plate on machine for weight).
- 3.Use central lifting point (a) (c) (as optional) when lifting machine.
- 4. Trolley wheel (b) as optional is used for short distance transportation.

TROUBLE SHOOTING				
SYMPTOM	POSSIBLE CAUSES	SOLUTION		
Travel Speed too low,	Engine speed too low?	Set engine speed to correct RPM.		
and vibration is weak	Clutch slips? Check or replace clutch			
	V- belt slips?	Adjust or replace V-belt		
	Excessive oil in vibration?	Drain excess oil and fill to proper lever		
	Malfunction in vibrator housing?	Check eccentric, gears and counter weights		
	Bearing Failure?	Replace Bearing		
	Insufficient engine output?	Check engine, compression, etc.		

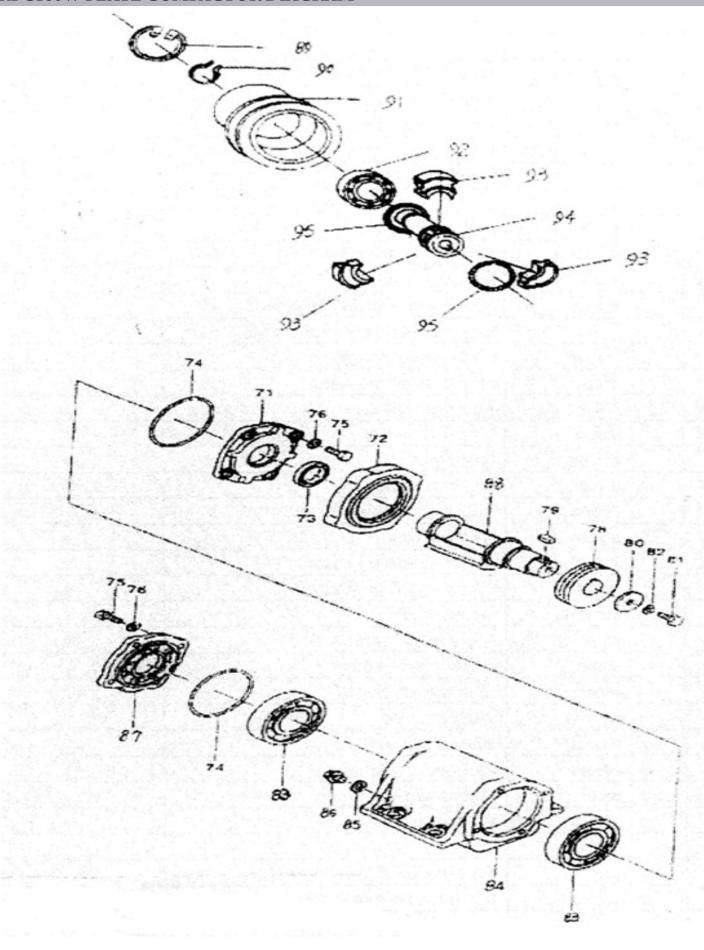
ENGINE TROUBLE SHOOTING

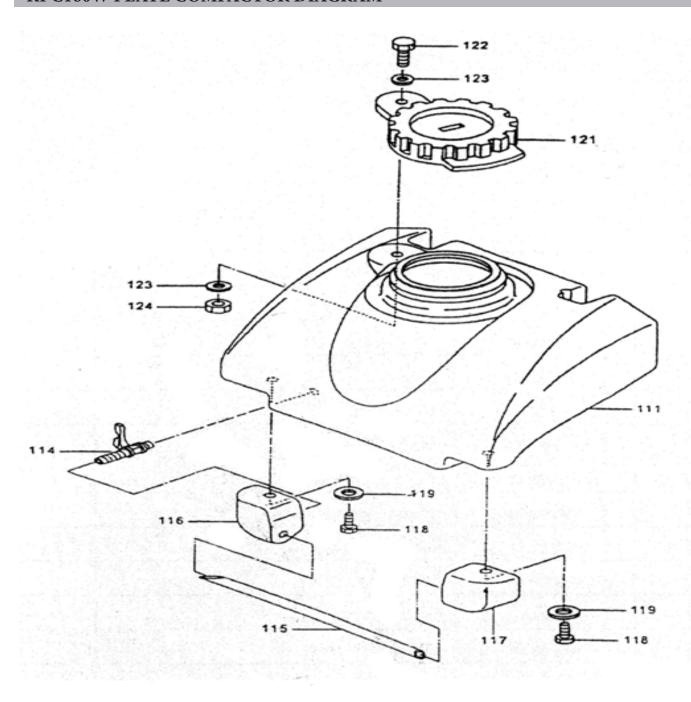
SYMPTOM	POSSIBLE CAUSES	SOLUTION
Difficult to start, "Fuel is available,	Spark plugs bridging?	Check gap, insulation or replace spark plug.
but no SPARK at spark plug".	Carbon deposit on spark plug?	Clean or replace spark plug.
	Short circuit due to deficient spark plug	Check spark plug insulation, replace if worn
	insulation?	
	Improper spark plug gap?	Set to proper gap
Difficult to start, "Fuel is available,	ON/OFF switch is shorted?	Check switch wiring, replace switch
but no SPARK at spark plug".	Ignition coil detective?	Replace ignition coil
	Improper spark gap, point's dirty?	Set correct spark gap and clean points
	Condenser insulation worm of short cir-	
	cuiting?	Replace condenser
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring
Difficult to start, "Fuel is available,	Wrong fuel type?	Flush fuel system, and replace with correct type of fuel
spark is present and compression	Water or dust in fuel system?	Flush fuel system
is normal".	Air cleaner dirty?	Clean or replace air cleaner
Difficult to start, "Fuel is available,	Suction/exhaust value stuck or protruded?	Re-seat valves
spark is present and compression	Piston ring and/or cylinder worn?	Replace piston rings and or piston
is low".	Cylinder head and/or spark plug not tight-	Torque cylinder head bolts and spark plug
	ened properly?	
No fuel present at arburetor	Fuel not available in fuel tank?	Fill with correct type of fuel
•	Fuel cock does not open properly?	Apply lubricant to loosen fuel cock level, replace if necessary
	Fuel filter clogged?	Replace fuel filter
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap
	Air in fuel line?	Bleed fuel fine
"Weak in power" compression	Air cleaner not clean?	Clean or replace cleaner
is proper and does not mistires	Improper level in carburetor?	Check float adjustment, re-build carburetor
• •	Defective spark plug?	Clean or replace spark plug
"Weak in power" compression	Water in fuel system?	Flush fuel system, and replace with correct type of fuel
is proper but mistires	Dirty spark plug?	Clean or replace spark plug
	Ignition coil defective?	Replace ignition coil
Engine overheats	Spark plug heat value improper?	Replace with correct type of spark plug
0	Correct type of fuel?	Replace with correct of fuel
	Cooling fins dirty?	Clean cooling fins
Rotational speed fluctuates.	Governor adjusted correctly?	Adjust governor
*	Governor spring defective?	Replace governor spring
	Fuel flow restricted?	Check entire fuel system for leaks or clogs
	Recoil mechanism clogged with dust and	Clean recoil assembly with soap and water
Recoil starter malfunction	dirt?	
	Spiral spring loose?	Replace spiral spring
	-100	1 1 0



	KPC160W PARTS LIST					
ITEM NO.	PART NO.	DESCRIPTION	QUANTITY			
1	900001	BASE PLATE	1			
2	900002	VIBRATOR ASSY	1			
3	900003	VIBRATION ABSORBER	4			
4	900004	NUT M10-GB6184	4			
5	900005	SPRING WASHER 10-GB93	4			
6	900006	FLAT WASHER 10-GB95	4			
7	900007	SPRING WASHER 10-GB93	4			
8	900008	BOLT M10X30-GB5781	4			
9	900009	ENGINE MOUNTING PLATE	1			
10	900010	DIESEL ENGINE NUT M8	1			
		PETROL ENGINE NUT M8				
11	900011	ENGINE NUT M8	1			
12	800012	PLATE WASHER 8-GB95	1			
13	900013	LOCK NUT M8-GB6184	1			
14	900014					
15	900015					
16	900016	FLAT WASHER 10-GB95	2			
17	900017	SPRING WASHER 12-GB93	2			
18	900018	BOLT M10X30-GB5780	2			
19	900019	FLAT WASHER 16-GB95	4			
20	900020	SPRING WASHER 12-GB93	4			
21	900021	BOLT M10X30-GB5781	4			
22	900022	ENGINE	1			
23	900023	BOLT M10X30-GB5781	4			
24	900024	SPRING WASHER 8-GB93	4			
25	900025	FLAT WASHER 8-GB95	4			
26	900026	WHEEL STAND	1			
27	900027	WHEEL	2			
28	900028	FLAT WASHER 8-GB95	2			
29	900029	SPRING WASHER 8-GB93	2			
30	900030	BOLT M8X25-GB5781	4			
32	900032	SPRING WASHER 8-GB93	2			
33	900033	SLEEVE	2			
34	900034	BOLT M8X25-GB5781	1			
35	900035	SPRING WAHSER 8-GB95	2			
36	900036	FLAT WASHER 8-GB95	2			
37	900037	BOLT M8X20-GB70	1			
38	900037	2 021 1.10120 0270	-			
39	900039					
40	900040	INSIDE BELT COVER FOR DIESEL ENGINE	1			
41	900041	V-BELT FOR DIESEL ENGINE	1			
43	900043	CLUTCH PULLEY ASSEMBLY	1			
47	900047	BELT COVER FOR DIESEL ENGINE	1			
48	900047	FLAT WASHER 8-GB95	3			
49	900049	SPRING WASHER 8-GB93	3			
50	900049	BOLT M8x40-GB5781	3			
51	900051	DOLI MONIO GDO/01				
52	900051	GUARD HOOK	1			
53	900053	RUBBER COLLAR	4			
54	900054	CIRCLIP EXT12-GB894.1	4			
55	900055	BOLT M10x30-GB5781	3			
	1 700033	DOLI MIIVAJU-ODJ/01				

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
56	900056	SPRING WASHER10-GB93	3
57	900057	FLAT WASHER 10-GB95	3
58	900058	RUBBER CLIP	1
59	900059	BOLT M6X30-GB5781	2
60	900060	FLAT WASHER 6-GB95	4
61	900061	LOCK NUTM6-GB6184	2
62	900062	STEEL COLLAR	2
63	900063	RUBBER COLLAR	2
64	900064	FLAT WASHER 12-GB95	2
65	900065	SPRING WASHER 10-GB93	2
66	900066	BOLT M12X65-GB5780	2
67	900067	HANDLE	1
68	900068	RUBBER MOUNT	2
69	900069	THROTTLE CONTROL LEVEL	1
70	900070	THROTTLE CONTROL WIRE	1
71	90002-1	CASE COVER (L)	1
72	9002-2	PROTECTIVE COVER	1
73	90002-3	OIL SEAL 35X48X10-GB9877	1
74	90002-4	O-RING 100-GB3452.1	1
75	90002-5	BOLT M8X25-GB5783	8
76	90002-6	SPRING WASHER 8-GB93	8
77	90002-7	FLAT WASHER 8-GB96	8
78	90002-8	PULLEY	1
79	90002-9	KEY C8-GB1096	1
80	90002-10	PULLEY WASHER	1
81	90002-11	BOLT M10X25-GB-GB5783	1
82	90002-12	SPRING WASHER 10-GB93	1
83	90002-13	BEARING 6211-GB276	2
84	90002-14	VIBRATING PIECE	1
85	90002-15	PACKING PIECE	1
86	90002-16	PLUG SCREW M14X1.5	1
87	90002-17	CASE COVER (R)	1
88	90002-18	ECCENTRIC ROTATOR	1
43	900043	CLUTCH PULLEY ASSEMBLY	1
89	900043-1	CIRCLIP INT 62-GB893.1	1
90	900043-2	CIRCLIP EXT 30-GB894.1	1
91	900043-3	DRUM	1
92	900043-4	BEARING 60206-GB276	1
93	900043-5	CENTRIFUGAL LUMP	3
94	900043-6	CLUTCH CENTRE FOR DIESEL	1
		CLUTCH CENTRE FOR PETROL	1
95	900043-7	CLUTCH SPRING	2
111	900081	WATER TANK	1
114	900082	COCK	1
115	900083	SPRING PIPE	1
116	900084	PIPE HOLDER (L)	1
117	900085	PIPE HOLDER (R)	1
118	900086	BOLT m8X30-GB5783	2
119	900087	WASHER 8-GB95	2
121	900088	CAP WATER TANK	1
122	900089	BOLT M10X30-GB5783 1	
123	900090	WASHER 10-GB95	2
124	900091	NYLON NUT M10-GB170	2





WARRANTY

These products are covered by warranty for a period of six(6) months from the date of purchase against defects in material or workmanship provided that:

- The product concerned has been operated and maintained in accordance with the operating instructions.
- Has not been damaged by accident, misuse or abuse.
- Has not been tampered with or repaired by any unauthorized person.
- The owner is responsible for the cost of transpiration to and from the authorized repairer and the unit is at the owners risk while in transit to and from the repairer.
- Impact damage is not covered under warranty. Clutches are not covered under any warranty. Engines are warranted by their manufacturer.

PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE PLAN

This plate compactor has been assembled with care and will provide years of service. Preventative maintenance and routine service are essential to the long life of our plate compactor. After reading through this manual thoroughly, you will find that you can do some of the regular maintenance yourself. However, when in need of parts or major service, be sure to see your dealer. For your convenience we have provided this space to record relevant date about your plate compactor.

Invoice Number:	Type of Machine:	
Date Purchased:	Dealer Name:	
Serial Number:	Dealer Phone:	

REPLACEMENT PARTS USED ITEM NO. DESCRIPTION QUANTITY COST DATE				MAINTENAN	NCE LOG	
ITEM NO.	DESCRIPTION	DATE				