

OPERATION, SPARE PARTS  
AND SERVICE MANUAL

## PLATE COMPACTOR MODEL PP46



# FAIRPORT

CONSTRUCTION EQUIPMENT LIMITED

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Sheffield  
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ENGLAND

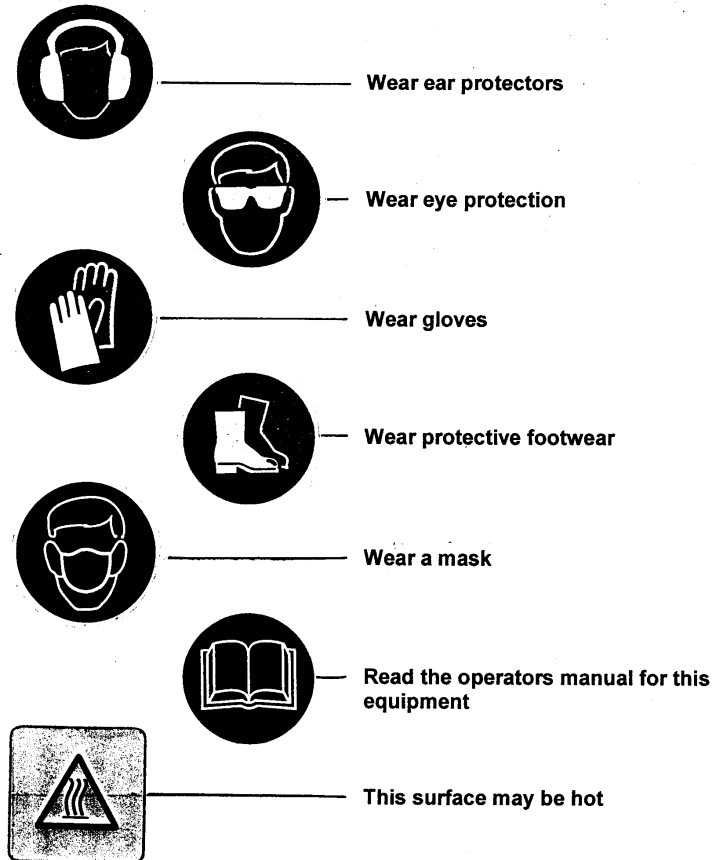
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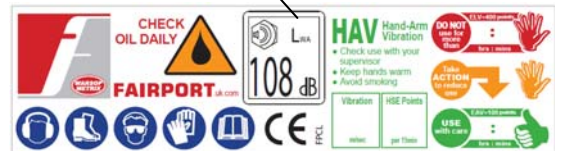
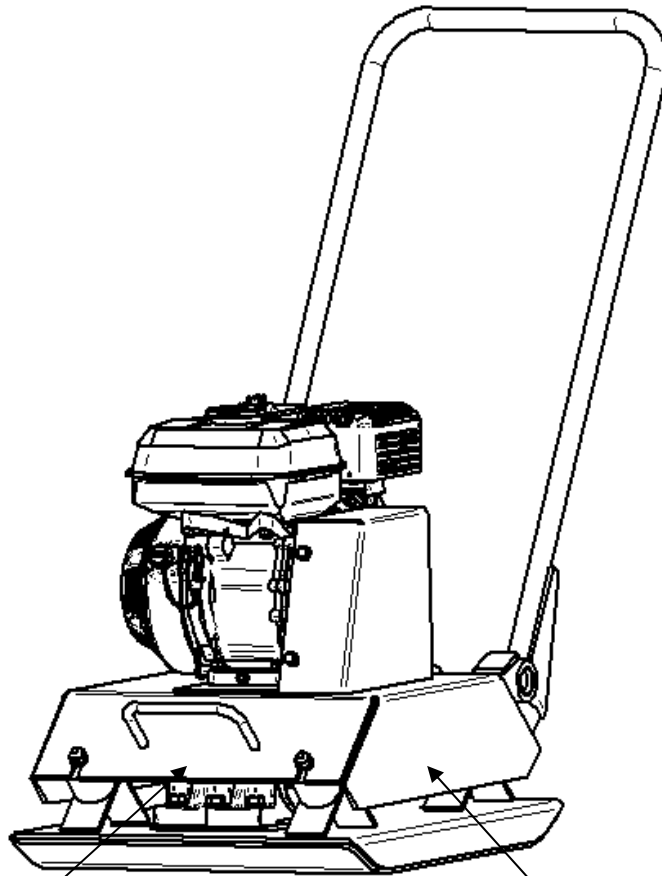
## 1. SAFETY

DO NOT operate this machine unless all guards are in position and secure.  
DO NOT smoke when refuelling.  
DO NOT refuel with engine running.  
Wipe up spilt fuel.  
DO NOT overfill.  
Dispose of fuel contaminated wipes safely  
DO NOT run engine in enclosed areas without adequate ventilation.  
DO NOT run engine in an area that has a hazardous or explosive atmosphere.  
Disconnect H.T. lead from spark plug on petrol engines before carrying out any maintenance.  
Turn off fuel when not using machine.  
Wear protective footwear, ear defenders and gloves.  
Comply with site safety regulations.  
Check condition and tightness of anti-vibration mounts between engine plate and base plate before lifting.

### 1.1 SAFETY PICTOGRAMS USED ON FAIRPORT EQUIPMENT



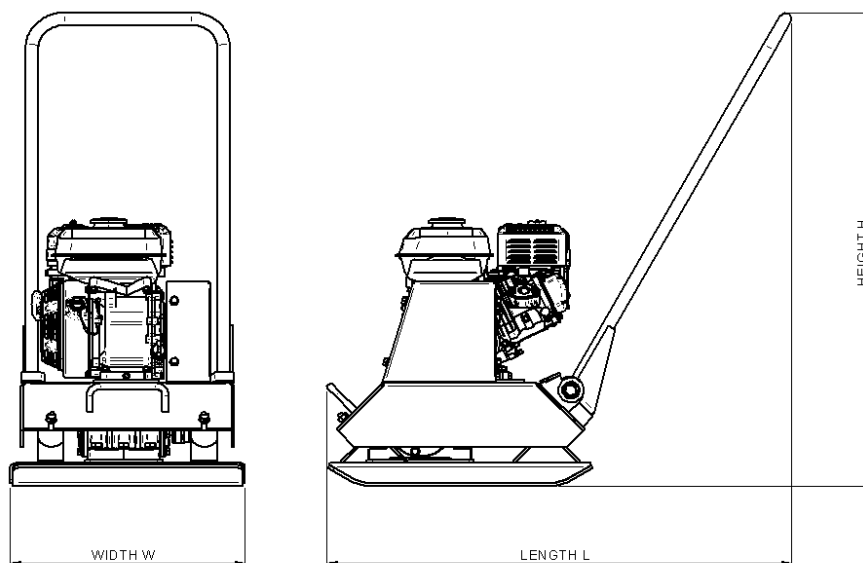
## 1.2 SAFETY DECAL POSITIONS



## 2. TECHNICAL DATA

MODEL	ENGINE MANUFACTURER	ENGINE MODEL	POWER (HP/kW)
PP46	Honda	GX160	5.5/4.0

MODEL	HEIGHT- (mm)	H	LENGTH – L (mm)	WIDTH – W (mm)	CONTACT AREA (sq. m)	WEIGHT (kg)
PP46	928		910	460	0.161	77



### PERFORMANCE

MODEL	CENTRIFUGAL FORCE (kN)	COMPACTION RATIO (kg/m <sup>2</sup> )
PP46	12	328

### NOISE AND VIBRATION EMISSIONS

The Guaranteed Sound Power level (LWA) tested according to ISO3744 and the Machinery Directive is 108dB(A).

\*The 3-Axis Hand Arm Vibration Value tested in accordance with BS 500-4 on uncompacted granular sub base materials is 13.8 m/s<sup>2</sup>.

### 3. USING THE MACHINE FOR THE FIRST TIME

When the machine is delivered from Fairport it will have **no oil in the engine**. Please refer to the Engine Manufacturers Manual issued with the machine for instructions on filling the engine with the correct type and quantity of oil.

### 4. ROUTING MAINTENANCE

(See Also The Engine Manufacturers Manual issued with the machine)

Daily: Check engine oil level twice daily.  
Check tightness of all fastenings after first days use, thereafter check monthly.  
Check belt tension after the first days use, thereafter check monthly.  
Clean air filter daily if working in dusty conditions.  
Clean base plate thoroughly if compacting black-top or lean concrete.

Weekly: Clean air filter (see “daily”).

Monthly: Check tightness of fastenings.  
Check condition and tightness of anti-vibration mounts. Poor condition of vibration mountings can lead to a deterioration of the product vibration levels.  
Check belt tension.

### 5. STARING THE ENGINE

Check oil level.  
Turn fuel tap on.  
Put speed control lever to tick-over.  
If engine is cold, close the choke (petrol engines only).  
Turn engine switch to ON(1) position.  
Pull the starter rope toggle lightly until resistance is felt, then pull briskly using quick short pull. Do not pull rope to its full extent or allow toggle to snap back against engine. Return gently to avoid damage.

When the engine is warm, open choke.  
Position engine speed control lever to give required engine speed (usually full speed).  
Commence vibration – the compactor is self – travelling.  
To stop the engine, position the engine speed control to slow and turn the engine switch to off(0).  
Turn the fuel valve off.

### 6. OPERATING INSTRUCTIONS

Read section (1) - Safety.

NOTE: Drive between engine and vibrator is through a centrifugal clutch. Vibration will commence as engine speed is increased.

Position the engine speed control lever to give required speed (usually full speed). Commence compaction. The compactor is self-travelling. Its speed of travel and the number of passes required to achieve optimum compaction depends on the type and condition of material being compacted and the layer depth.

Uniformly graded granular material compacts far more efficiently than wet cohesive material.

When Compacting block paving always use a rubber attachment mat, contact your agent for details.

When compacting blacktop always use a water spray, contact your agent for details.

Do not run the machine on solid surfaces, as this is likely to cause damage.

## **7. LUBRICATION**

The vibrator pack is a 'lubricated for life' unit. It will only need relubricating if there is a need to replace the seal and/or bearings. Replenish the housing with 150ml of engine oil Grade 10W/30 or 15W/40.

## **8. VEE BELT ADJUSTMENT**

It is important to note that belt tension in this application is much less than is generally accepted as normal. Too high a belt tension may lead to engine damage, excessive vibration in the handle, short belt life and short vibrator shaft bearing life due to excessive transmission of vibration through the belt. Correct adjustment is achieved by moving the engine back to take the slack out of the belt. With light finger pressure on top of the belt and at the centre of the span, a deflection of between 5mm and 10mm is expected.

## **9. WARRANTY CONDITIONS AND CLAIMS PROCEDURE**

All products supplied by Fairport Construction Equipment Ltd (hereafter referred to as FCE) are warranted to be free of defects due to faulty materials or workmanship for a period of 12 months from the date of original despatch from FCE or 3 months for all spare parts used in repairs carried out by FCE or an authorised dealer or repairer.

If the goods have been purchased through a stockist the above warranty periods also apply from receipt of the goods by the user of the equipment up to a total of a further 6 months from date of despatch from FCE whichever is earlier.

Filter elements, gauges and oils are specifically excluded from this warranty.

FCE shall at their option repair or replace, during normal working hours, goods accepted as faulty free of charge to the user.

For proprietary items such as engines, the original manufacturer's warranty and conditions shall apply.

### CONDITIONS

The goods shall be returned at the purchaser's expense to FCE or to a destination FCE may reasonably direct. Carriage costs will be refunded if warranty is accepted.

Warranty claims will not be considered where there is evidence that failure has been caused by carelessness, improper use, negligence, inadequate servicing, incorrect

engine speeds, fair wear and tear or non-compliance with instructions issued by the manufacturer.

To the extent permitted by law, the liability of FCE under this section is confined only to providing a remedy for defective goods and does not extend to any consequential loss, loss of profit, injury or damage suffered.

Warranty will not be accepted on dismantled goods unless dismantling was carried out with the written permission of FCE.

No claim shall be considered if other than genuine parts supplied by FCE have been used.

Products are only covered by this warranty in the country to where they were supplied by FCE.

Warranty on products applies only to the original user of the equipment.

This warranty shall not apply if the serial number or other identifying numbers or marks applied by FCE have been removed, defaced or are otherwise illegible.

### CLAIMS PROCEDURE

Check that the goods are still under warranty before returning them to FCE (see above for warranty periods).

Return the goods to FCE with an order number for the work to proceed. If warranty is accepted no charge will be made. If warranty is not accepted a quotation will be given for the repair and the conditions under the section headed REPAIRS AND ESTIMATES will apply.

In the customer's interest, goods must be accompanied by documentation detailing the nature of the fault or its symptoms. Phrases such as 'Faulty' are unacceptable and will result in delays and possible charges to defray costs incurred in identifying the fault.

In the case of hydraulic breakers and power packs, both the breaker and the pack should be returned.

## **10. REPAIRS AND ESTIMATES**

When returning a machine, or an assembly for repair, always include an Advice Note quoting model and serial number of the machine.

An official order must also be forwarded to FCE giving detailed instructions. No repair work can be carried out unless covered by an official order.

An estimate will be submitted before proceeding with any repair. To partly cover the cost in dismantling, cleaning and inspection, a small charge will be made; this however will be waived upon receipt of your official instructions to proceed with the repair.

In the event of the estimate not being accepted, a further charge will be made to defray the rebuilding of the machine.

Estimates must be treated as approximate only as it may be found necessary to use additional parts on further examination.



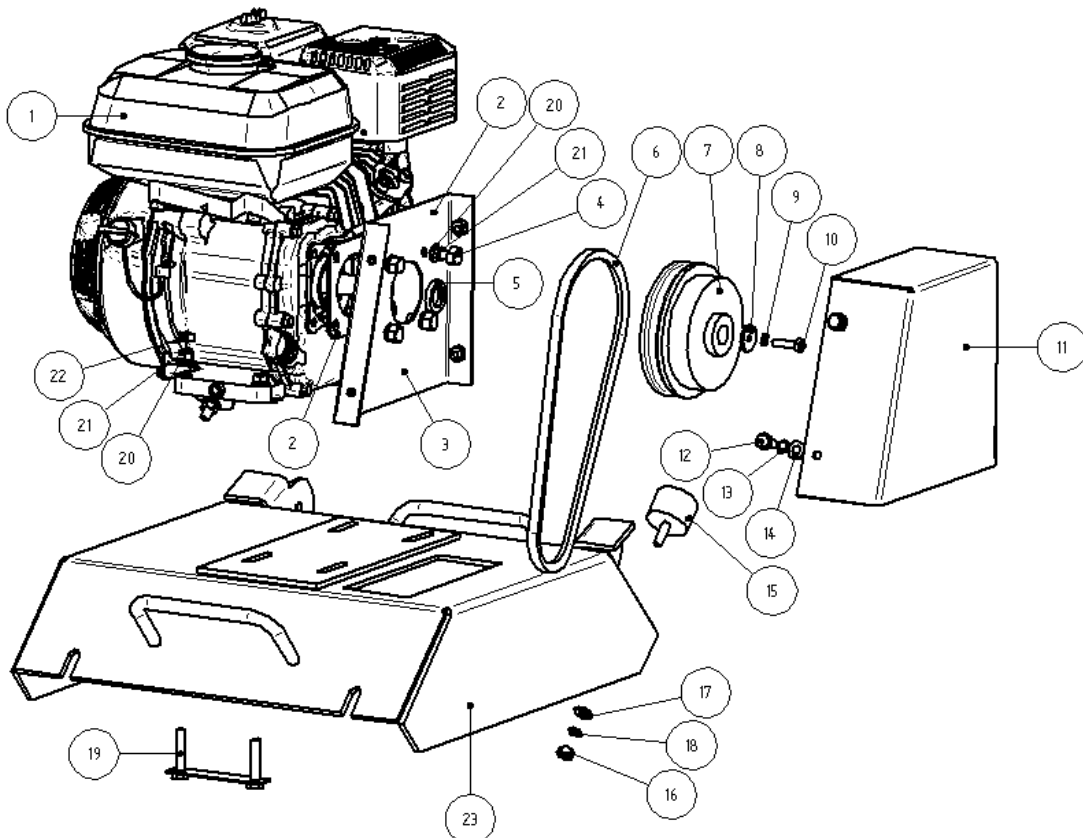
## 11. ENVIRONMENT

This machine contains materials that can be recycled. We recommend that when the machine is disposed off it is done safely and in a way that protects the environment.

Part Description	Materials
Engine	Aluminium and steel
Baseplate	Steel
Engine Frame	Steel
Engine Bedplate	Steel
Belt Cover	Steel
Handle	Steel
Ant vibration Mounts	Steel and rubber
Block Paving Kit (if fitted)	Steel and Polyurethane
Water Bottle Kit (if fitted)	Steel and Medium Density Polyethylene

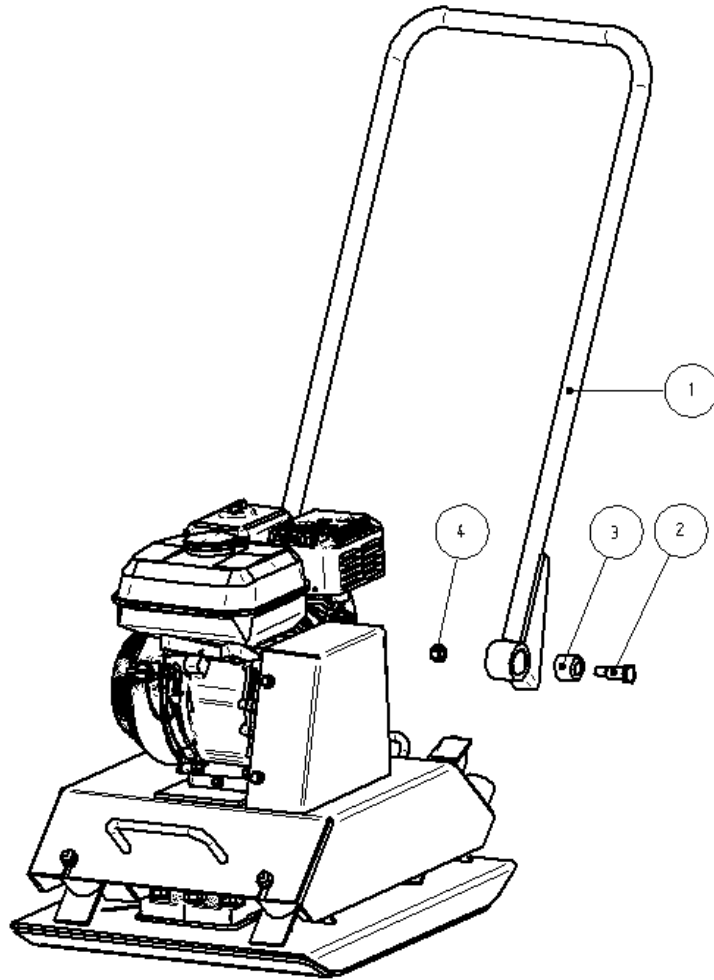
## 12. PARTS LIST – BEDPLATE AND DRIVE SYSTEM

<u>Parts List</u>	<u>Part Code</u>	<u>Description</u>	<u>Qty Required</u>
1	W81731	Honda GX160	1
2	W14681	Engine Spacer	1
3	W14815	Belt Guard Back Plate	1
4	W406/5/12	5/16 UNF x 3/4" Hex Setscrew	4
5	W14562	Clutch Spacer	1
6	W87287	Vee Belt	1
7	W87060	Clutch	1
8	P80120	Retaining Washer	1
9	W432/6	M6 Spring Washer	1
10	P80167	1/4 UNF x 1" Setscrew (FPC320)	1
11	W14816	Belt Guard	1
12	W437/8/16	M8 x 16 Hex Setscrew	4
13	W432/8	M8 Spring Lock Washer	4
14	W418/8	M8 Washer	4
15	W88920	Buffer Mount	2
16	W440/10	M10 Nut	2
17	W418/10	M10 Washer	2
18	W432/10	M10 Spring Lock Washer	2
19	WPC080-005	Engine Fixing Plate	2
20	W418/8	M8 Washer	8
21	W432/8	M8 Spring Lock Washer	8
22	W440/8	M8 Nut	4
23	WPC080-007	Engine Bedplate	1



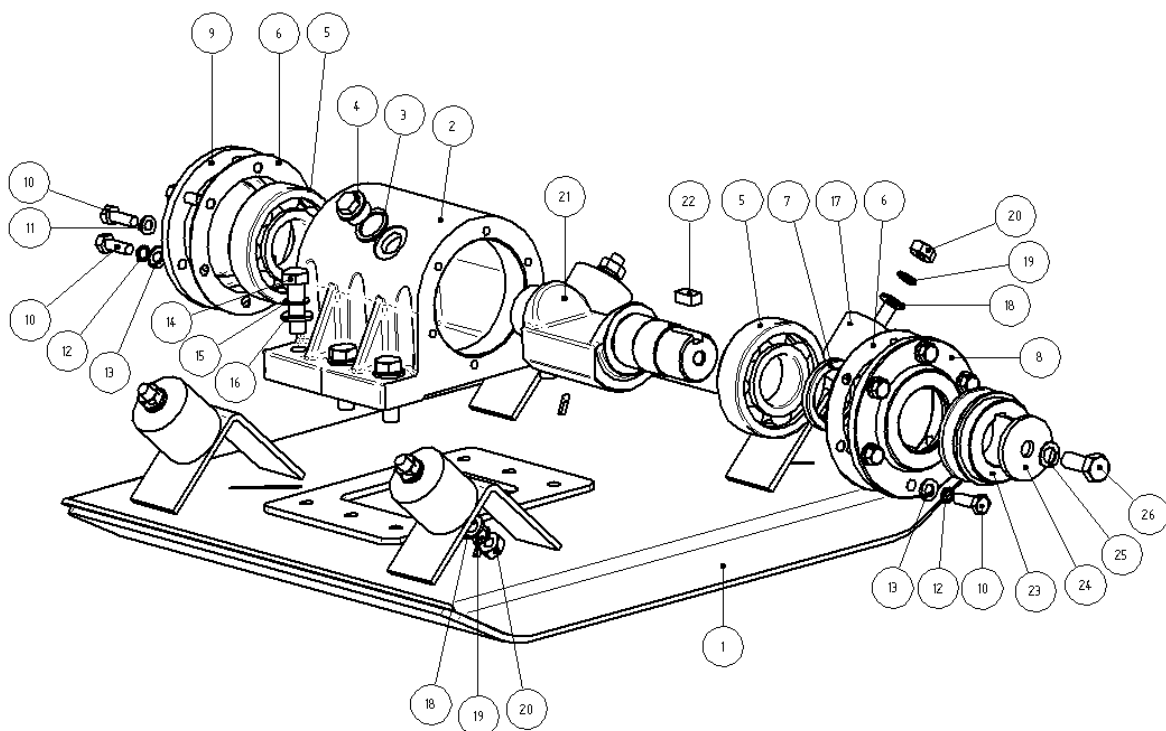
## 12. PARTS LIST - HANDLE

<u>Parts List</u>	<u>Part Code</u>	<u>Part Description</u>	<u>Qty Required</u>
1	W14814	Handle	1
2	W14683	Handle Pivot Bolt	2
3	W88912	Handle Bush	2
4	W480/12	M12 Nyloc Nut	2



## 12. PARTS LIST – BASEPLATE AND VIBRATOR ASSEMBLY

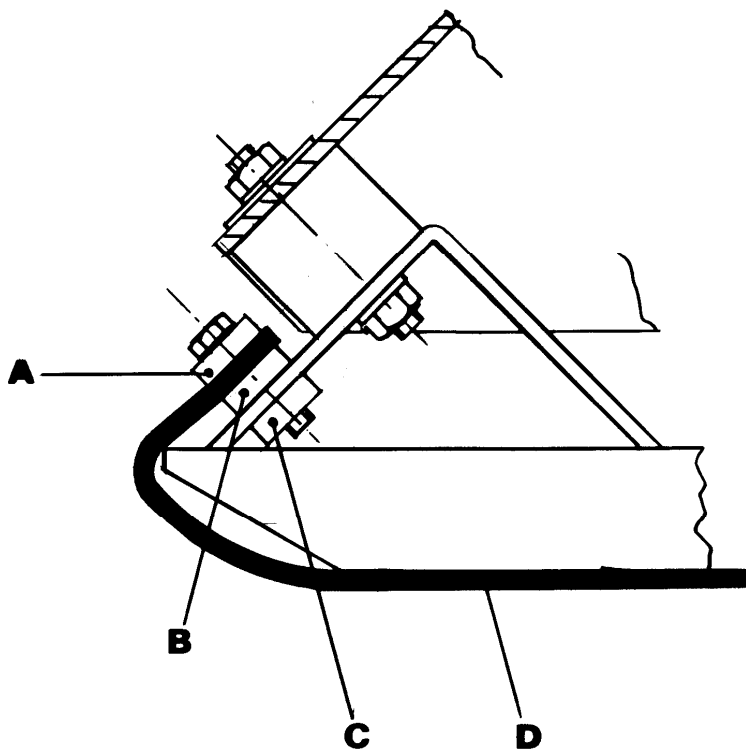
<u>Parts List</u>	<u>Part Code</u>	<u>Description</u>	<u>Qty Required</u>
1	WPC080-001	Base	1
2	WPC080-B12	Vibrator Housing	1
3	P85034	Sealing Washer	1
4	W68574	Filler Plug	1
5	W81019	Bearing	2
6	WPC080-B09	Gasket	2
7	W81249	Oil Seal	1
8	W14819	End Plate (Pulley Side)	1
9	W14818	End Plate	1
10	W437/8/25	M8 x 25 Hex Setscrew	12
11	W14820	M8 Fibre Washer	1
12	W432/8	M8 Spring Lock Washer	11
13	W418/8	M8 Washer	11
14	P120-4012-01	M12 x 40 Hex Setscrew	6
15	W440/8	M12 Spring Lock Washer	6
16	W418/12	M12 Washer	6
17	W88919	AV Mount	4
18	W418/10	M10 Washer	8
19	W432/10	M10 Spring Lock Washer	8
20	W440/10	M10 Plain Nut	8
21	WPC080-B11	Vibrator Shaft	1
22	W87288	Drive Key	1
23	W14561	Pulley	1
24	W14593	Collar	1
25	W440/8	M12 Spring Lock Washer	1
26	W437/12/30	M12 x 30 Hex Setscrew	1



## 12. PARTS LIST AND FITTING INSTRUCTIONS – BLOCK COMPACTING MAT

<u>Parts List</u>	<u>Part Code</u>	<u>Description</u>	<u>Qty Required</u>
C	W14557	Rear clamp strip	1
B	W14558	Centre clamp strip	1
A	W14559	Front clamp strip	1
D	W14560	Block compacting mat	1
--	W469/8/25	M8 csk screw x 25	2
--	W437/8/40	M8 hex screw x 40	5
--	W439/8	M8 Shakeproof	5

92991 Complete kit, includes all above parts



1. Locate Rear Clamp Strip, **C**, part no. W14557 behind anti-vibration mount bracket on plate compactor with welded-on spacer facing upward. The Rear Clamp Strip is the one with threaded holes
2. Fasten Centre Clamp Strip, **B**, part no. W14558 to Rear Clamp Strip with the two M8 countersunk screws provided. The Centre Clamp Strip is the one with the two countersunk holes.
3. Place Front Clamp Strip, **A**, part no W14559 onto Block Compacting Mat, **D**, part no W14560 and push five M8 hexagon screws through holes in both strip and mat after first placing Shakeproof washers under heads of screws.
4. Offer Clamp Strip, Mat and screws up to Clamp Strips fastened to compactor. Locate screws into holes and tighten.

## 12. PARTS LIST – WATER SPRINKLER KIT

<u>Part No</u>	<u>Description</u>	<u>Qty</u>
W14595	Strap (Honda)	1
W14608	Strap (Briggs & Stratton)	1
W14594	Tank bracket (Honda)	1
W14607	Tank bracket (Briggs & St)	1
W80528	Clip	4
W80568	Tank	1
W80588	Tap	1
W51675	Hose tail	1
W80589	3/8" BSP nipple nut	1
W523/8	1/2" fibre washer	1
W80045	Feed pipe, 1/4" x 3/8"	State length required
W14596	Sprinkler bar	1
W14598	Clamp plate	2
W87859	1/4" BSPT Socket Plug	2
W435/6/55	M6 x 55 Hex Bolt	4
W480/6	M6 Nyloc nut	4
W435/8/35	M8 x 35 Hex Bolt	4
W480/8	M8 Nyloc nut	4
W439/8	M8 star washer	8
93052	Complete kit for Honda, includes all above parts.	

