

**OPERATOR'S
SPARE PARTS &
SERVICE MANUAL**



®

**Plate Compactor
Model PP46**

FAIRPORT

CONSTRUCTION EQUIPMENT LTD

Blagden Street
Sheffield
S2 5QS
ENGLAND
Tel: +44 (0) 114 276 7921
Fax: +44 (0) 114 272 0965
Email: sales@fairport.uk.com
Website: www.fairport.uk.com

Unit 32,
The Bell Centre,
Newton Road,
Manor Royal,
Crawley,
West Sussex,
RH10 9FZ
Tell +44 (0) 1293 534742
Fax +44 (0) 1293 529056

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1. SAFETY

Do not operate this machine unless all guards are in position and secure.

Do not smoke whilst refuelling.

Do not refuel with engine running. Wipe up spilt fuel. Do not overfill.

Dispose 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 of antivibration mounts between engine plate and base plate before lifting.

Safety Pictograms Used on this Equipment



Read the manual before using this equipment



Wear ear protectors



Wear safety boots



Wear gloves

2. TECHNICAL DATA

Engine

Manufacturer:	Honda	Briggs & Stratton
Model:	GX160	5HP I/P
Net BHP at operating speed:	4.9	4.2
Operating speed, Max RPM	3600	3600
Starting:	Recoil	Recoil

Dimensions

Height including handle, mm:	950	950
Length including handle, mm:	1100	1100
Length, handle removed, mm:	510	510
Width, mm:	460	460
Contact area, sq. m:	161	161
Height, handle removed, mm:	540	640
Weight, kg:	77	78

Performance

Vibration frequency, VPM:	6506	6506
Centrifugal force, kg:	1181	1181

Noise Emissions

Noise Levels Honda GX 160

Guaranteed Sound power level:	108. dB Lwa
Sound pressure level at Operators Ear:	96 db Lpa

Test condition: To BS 500-4 2001

Hand/Arm Vibration (maximum axis)

Honda GX160	13.8m/Sec ²
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Test condition: To BS 500-4 2001

3. STARTING THE ENGINE

Read section entitled 'Safety'.

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 it gently to avoid damage.

When engine is warm open choke.

Position engine speed control lever to give required engine speed (usually full speed).

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

Commence vibration - the compactor is self-travelling.

To stop engine, position the engine speed control to slow and turn the engine switch to off(0).

Turn the fuel valve to off.

4. OPERATIOIR HINTS

The compactor is self-travelling. Its speed of travel and the number of passes required to achieve optimum compaction depend 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 local agent for details.

When compacting blacktop always use a water spray. Contact your local agent for details.

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

5. ROUTINE MAINTENANCE

(See also the engine manufacturer's book issued with machine).

Daily: Check oil level twice daily.
Check tightness of all fastenings after first day's use; thereafter check monthly.
Clean air filter daily if working in dusty conditions.
Clean base plate thoroughly if compacting blacktop or lean concrete.

Weekly: Clean air filter (see "daily")

Monthly: Check tightness of fastenings.
Check condition of anti-vibration mounts.

6. 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.

7. 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 just take the slack out of the belt.

8. 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 as specified below:

Hydraulic hoses and hydraulic couplings – 3 months.
Hydraulic accumulators – 6 months.
Flexible drives – 6 months.

All spare parts used in repairs carried out by FCE or an authorised dealer or repairer – 3 months.

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

9. 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.

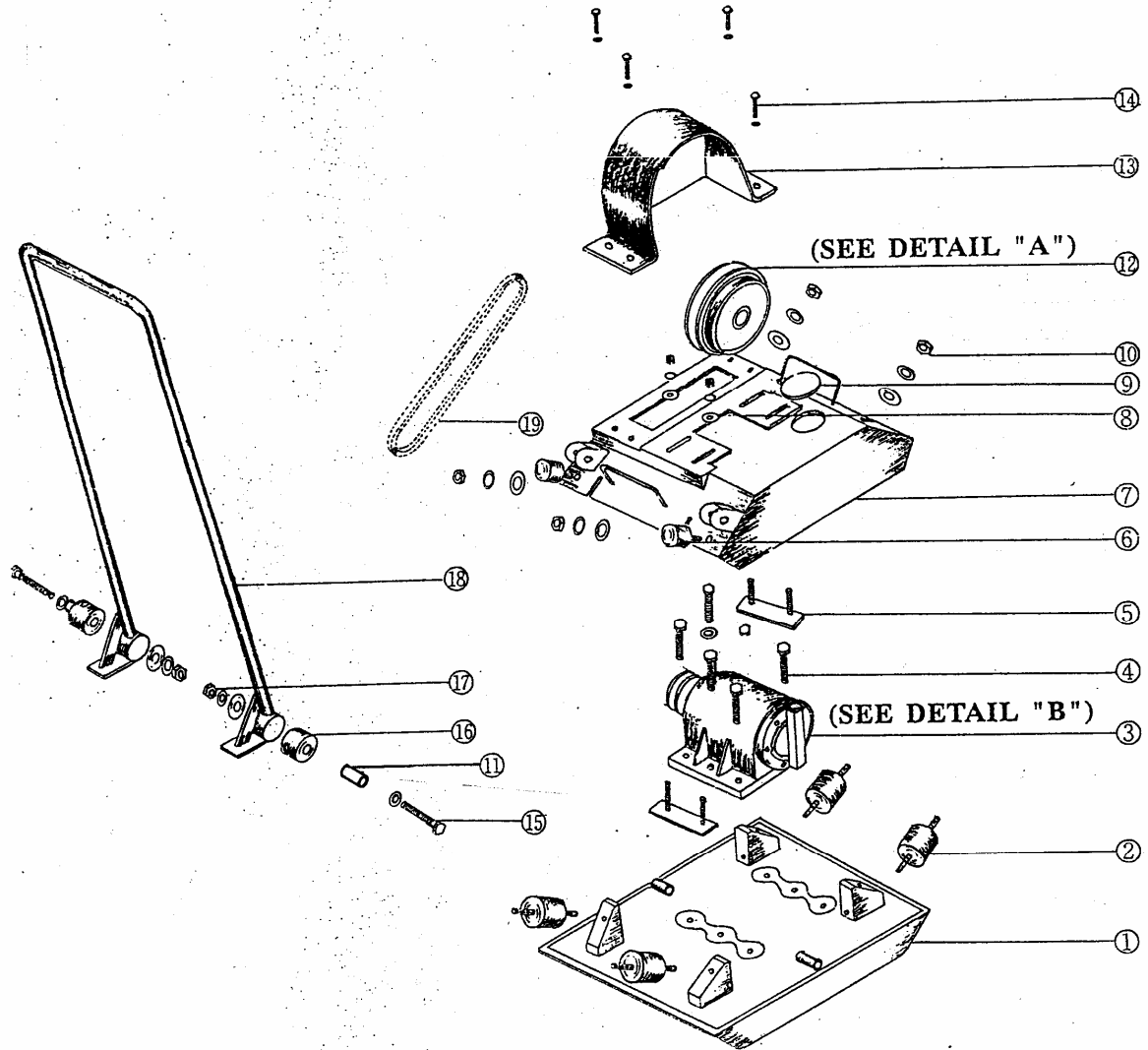
In the event of the estimate not being accepted, a further charge will be made to defray the rebuilding of the machine.

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

10.. PARTS LIST - M/C

<u>Parts List</u>	<u>Part Code</u>	<u>Description</u>	<u>Qty</u>
1	LS-PC-080-001	Base	1
2	LS-PC-080-002	Rubber Mounting	4
3	LS-PC-080-003	Exciter assembly (see sect. XX)	1
4	LS-PC-080-004	Fastening bolt with washers	6
5	LS-PC-080-005	Engine bracket bolt	2 sets
6	W88906	Rubber buffer	2
7	LS-PC-080-007	Engine mounting table	1
8	LS-PC-080-008	Nut & washer	4 sets
10	LS-PC-080-010	Nut & washer	4 sets
11	W14605	Spacer	2
12	W87286	Clutch pulley assembly	1
13	LS-PC-080-013	Belt cover	1
14	LS-PC-080-014	Hex. screw with spring washer	4 sets
15	LS-PC-080-015	Hex. screw	2 sets
16	LS-PC-080-016	Rubber bush	2
17	LS-PC-080-017	Nut & washer	2 sets
18	LS-PC-080-018	Handle bar (Honda)	1
18	W14604	Handle bar (Briggs & Stratton)	1
19	W87287	V-Belt	1
	W81785	Engine, Briggs and Stratton 5hp	1 5/8" shaft
	W81860	Exhaust deflector for B & S eng	1
	W81731	Engine, Honda GX160	1 3/4" shaft
	W81732	Engine, Honda GX160	1 5/8" shaft
	W81805	Exhaust deflector for Honda eng	1
	W51784	Throttle stop for Honda eng	1

PARTS DIAGRAM - M/C



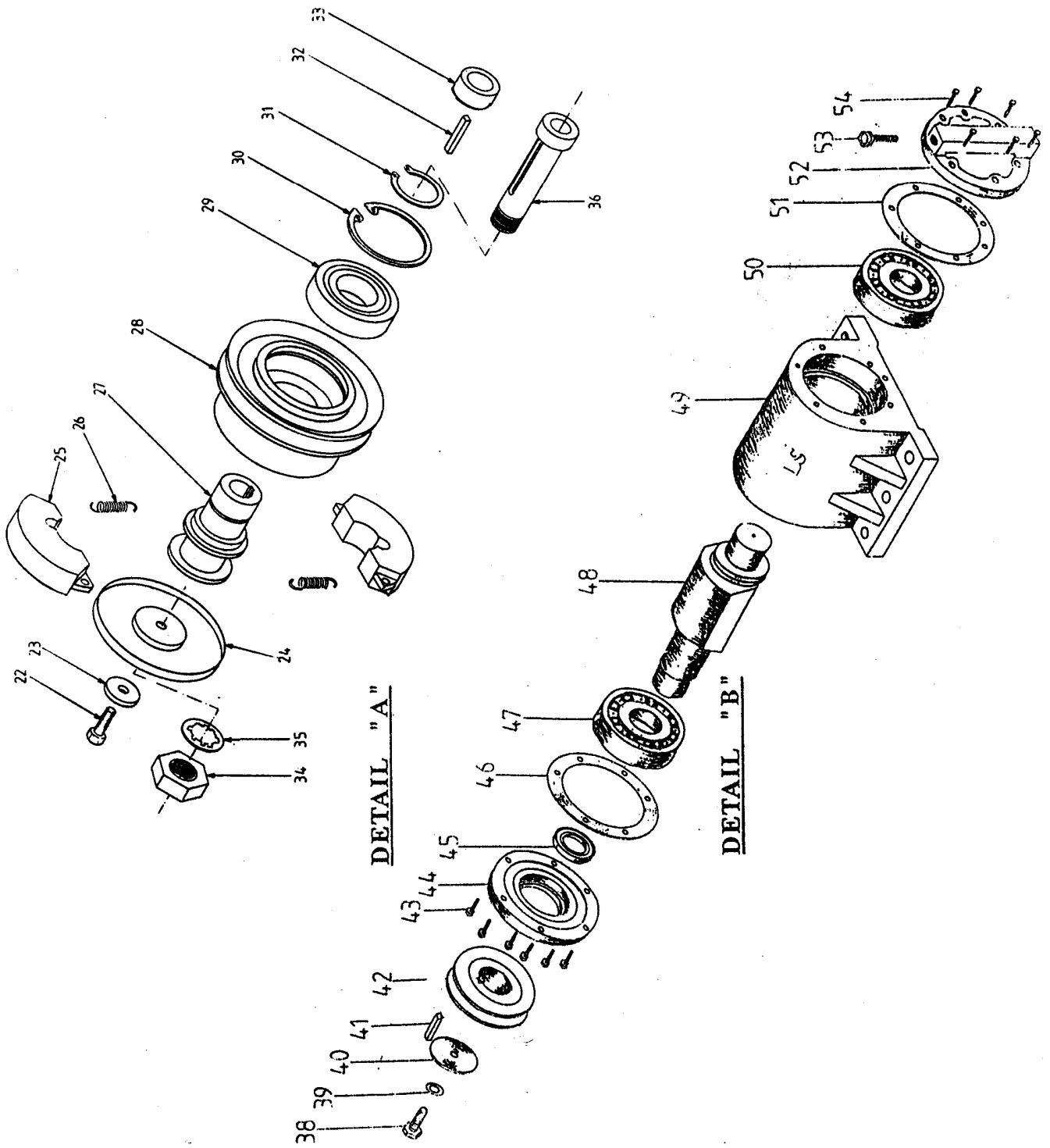
11. PARTS LIST - CLUTCH AND VIBRATOR

(Check engine shaft for clutch parts)

22	408/5/10	5/16 UNF hex screw x 5/8	1	3/4" shaft only
23	W51817	Washer	1	3/4" shaft only
24a	B-00800001	Cover	1*	3/4" shaft only
24b	W14563	Cover	1	5/8" shaft only
25	B-01200035	Shoe	2*	
26	B-01000178	Spring	2*	
27	B-11300026	Hub	1*	
28	B-11600320	Drum/Pulley assy	2*	
29	W81048	Ball bearing	1*	
30	W81254	Circlip	1*	
31	W81303	Circlip	1*	
32a	W84040	Eng shaft key	1	3/4" shaft only
32b	W14565	Adaptor key	1	5/8" shaft only
33	W14562	Clutch spacer	1	3/4" shaft only
34	W14571	Locknut	1	5/8" shaft only
35	425/12	3/4" Shakeproof washer	1	5/8" shaft only
36	W14564	Shaft adaptor	1	5/8" shaft only
38	437/12/30	Hex hd. screw	1	
39	417/12	Washer	1	
40	W14593	Retaining collar	1	
41	W87288	Vib. shaft key	1	
42	W14561	Pulley	1	
43	LS-PC-080-B06	Hex. hd screw	6	
44	LS-PC-080-B07	Cover-shaft end	1	
45	W81249	Oil seal	1	
46	LS-PC-080-B09	Gasket	1	
47	W81019	Bearing	1	
48	LS-PC-080-B11	Exciter shaft	1	
49	LS-PC-080-B12	Housing	1	
50	W81019	Bearing	1	
51	LS-PC-080-B14	Gasket	1	
52	LS-PC-080-B15	Cover- rear end	1	
53	LS-PC-080-B16	Screw	1	
54	LS-PC-080-B06	Hex hd screw	6	

Items marked * comprise W87286 Clutch assembly.

PARTS DIAGRAM – STEEL CLUTCH AND VIBRATOR



12. CAST IRON CLUTCH

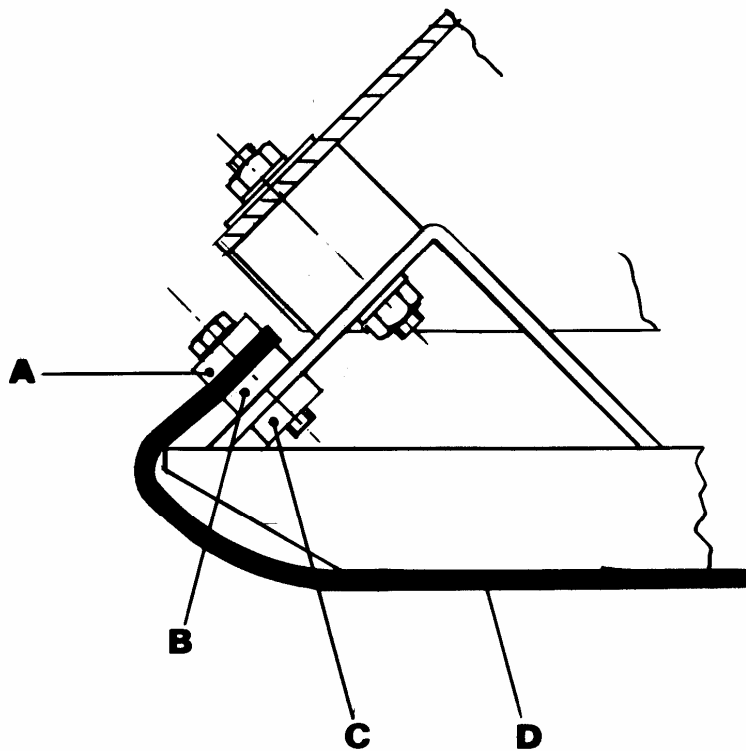


Item Number	Document Number	Title	Quantity
1	8 13 17	Circlip	2
2	LS PC 90 – B7	Clutch Main Shaft	1
3	LS PC 90 – B6	Cover Plate	2
4	LS PC 90 – B10	Weight	2
5	LS PC 90 – B9	Clutch Shoe	2
6	LS PC 90 – B8	Spring	2
7	8 10 07	Ball Bearing	1
8	LS PC 90 – B2	Clutch Pulley	1
9	LS PC 90 – B4	Circlip	1

LS PC 080-012 CLUTCH PULLEY ASSY comprises of all the above clutch components.

13. BLOCK COMPACTING MAT - PARTS AND FITTING INSTRUCTIONS

W14557	Rear clamp strip	1
W14558	Centre clamp strip	1
W14559	Front clamp strip	1
W14560	Block compacting mat	1
W469/8/25	M8 csk screw x 40	2
437/8/40	M8 hex screw x 40	5
439/8	M8 Shakeproof	8
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.

14. PARTS LIST - WATER SPRINKLER KITS

<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
523/8	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 skt. plug	2
435/6/55	M6 x 55 hex. hd. bolt	4
480/6	M6 Nyloc nut	4
435/8/35	M8 x 35 hex. hd. bolt	4
480/8	M8 Nyloc nut	4
439/8	M8 star washer	8
93052	Complete kit for Honda, includes all above parts.	
93070	Complete kit for Briggs & Stratton, includes all above parts.	