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imc

V RANGE POTATO PEELING MACHINES

**INSTRUCTIONS FOR
INSTALLATION OPERATION AND MAINTENANCE**

VC7 Series 22, VC14 Series 25

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INTRODUCTION

This machine is intended for washing and/or peeling potatoes. Its use may be extended to certain other root vegetables such as carrots or turnips.

VC7 and VC14 are 3 phase machines without timers. At the date of issue of this manual, single phase machines are fitted as standard with timers (previously this was an option) and designated VC7T and VC14T.

ON DELIVERY

Bench mounted models VC7 and VC14 may be delivered packed in a carton or unpacked according to the method of transport. Pedestal models may be delivered unpacked as a complete unit, or packaged in two cartons. One carton will contain the machine, the other the telescopic pedestal assembly. Please check the contents and notify both the Carrier and the Supplier within three days if anything is missing or damaged.

GUARANTEE

This machine is guaranteed by IMC for twelve months from the date of its purchase from IMC or from one of its stockists, dealers or distributors. The guarantee is limited to the replacement of parts or products and excludes any consequential loss or expense incurred by purchasers.

Defects which arise from faulty installation, inadequate maintenance, incorrect use, connection to the wrong electricity supply or fair wear and tear are not covered by the guarantee.

Please observe these instructions carefully.

This guarantee applies in this form to installations within the United Kingdom only.

INSTALLATION

Bench Models - VC7 and VC14

These will normally be installed on a work top of some sort or on a draining board. Peeled potato discharge is commonly into a sink and the sludge discharge can be piped away separately, possibly using a waste ejector fitting. Alternatively, with lightly used machines the waste can be directed via an outlet elbow into a sink skip acting as a strainer in the sink.

- 1 To fasten down the base unit, take off the motor cover. With the cover off, the two fastening down holes will be visible just forward of the electric motor.
- 2 Place the base assembly in the required position and mark down through these holes.
- 3 Remove the base and drill holes through the work top in the marked position.
- 4 Replace and bolt down using long bolts and nuts (M8 x 95mm are suitable sizes for work tops of 25mm thickness).

When fixing to a wheeled trolley these same holes are utilised, but the bolts are supplied with the trolley outfit.

Then proceed with Supply Connection Instructions.

Pedestal Models

These machines must be fastened to the floor.

- 1 Loosely assemble the machine unit to the pedestal by placing the oval shaped register around the bottom of the machine unit into the top of the pedestal assembly.
- 2 Place the whole unit into position and mark around its outside on the floor (note any height adjustment to be made to pedestal).
- 3 Put the pedestal back in place on the floor in the mark previously made.
- 4 Down inside the pedestal the fixing holes will be visible. Mark these through onto the floor, and fit rawbolts or other suitable floor fixings.
- 5 Fasten the pedestal to the floor with these fixings and tighten up. Select height of pedestal required and secure. Height adjustment to the discharge chute from the floor is available as follows:

	Min	2nd	3rd	4th	Max
VC7	725	790	840	890	940mm
VC14	745	810	860	910	960mm

- 6 Use the rubber plugs to close off the unused holes.
- 7 Finally, replace the machine unit into the pedestal and fit the three screws tightly.

Proceed with Supply Connection Instructions.

SUPPLY CONNECTION INSTRUCTIONS

ELECTRICITY SUPPLY CONNECTION

Examine the rating plate attached to the machine to ensure that the characteristics shown are correct for the supply available.

The control switch should be as near to the machine as the length of cable will allow. If this is not possible, provided the extra length is not considerable, the cable can be replaced with a longer piece of the same specification. Unless a jointing box is used **DO NOT** splice cable together but replace with a complete new length back to the terminal box.

The control should be a motor starter but a 13 amp fused or 15 amp round pin switch socket will serve. These must be 3 pin and EARTHED and on no account must a 5 amp lighting point be used. Fuse with a 13 amp fuse to BS1363. Three phase machines should be connected to a 15 amp three pole isolator fused at 5 amps.

When using a motor starter, follow the instructions supplied with it.

New mains supply run to the machine should always be undertaken by a reputable and competent electrician. The IEE Codes of Practice must be observed.

WARNING: THIS APPLIANCE MUST BE EARTHED

IMPORTANT - 1 PHASE

The wires in the mains lead for single phase machines are coloured in accordance with the following code:

Green and Yellow	EARTH
Brown	LIVE
Blue	NEUTRAL

As the colours of the flexible cord of this appliance may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows:

The core which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or coloured green or green and yellow.

The core which is coloured brown must be connected to the terminal which is marked with the letter L. The core which is coloured blue must be connected to the terminal which is marked with the letter N.

IMPORTANT - 3 PHASE

The wires in the mains lead for three phase machines are coloured in accordance with the following code:

Green and Yellow	EARTH
or Black/Brown/Blue	Phase Wires

After connection, switch on and observe the direction of rotation of the abrasive bottom plate. This should be clockwise when viewed from above. If not, switch off, and interchange any two of the phase lead connections.

WATER SUPPLY CONNECTION

Connections should only be made from a storage tank supply and not directly from the mains. 1/2" bore canvas reinforced hose with hose clips at the ends should be used for the final connection. Allow sufficient length for the top of the machine to be removed and placed aside when cleaning without straining or disconnecting the hose. Do not use rigid piping as this will make internal cleaning difficult unless the machine is dismantled first.

If the supply is taken from a sink tap a Royles Union connection will suffice. Permanent installations should, however, have a wall mounted control cock fitted with a 1/2" BSP threaded outlet and hose union.

WASTE OUTLET CONNECTION

All machines are supplied with 2" BSP threaded outlets: **DO NOT REDUCE THIS DIAMETER.**

The length of run between the machine and the main junction must be kept to a minimum and the pipe must have a fall of at least 1:15. Changes of direction should be made by bends rather than elbows and cleaning eyes should be fitted where possible, in accordance with standard plumbing practice.

Machines installed on a draining board can be provided with a sink skip straining basket to prevent sludge blockage of sink drain outlet pipe. A special outlet elbow is provided for this purpose.

A trap is not necessary if the discharge is into a gully or an intercepting tank although a trap must be provided in the outlet pipe away from an intercepting tank. A trap is necessary if the outlet pipe connects directly into a drain. When using an intercepting tank, run waste outlet to discharge direct into the sludge basket. The waste outlet must not obstruct removal of the basket.

Another adaptation is to couple the outlet to an IMC Waste Disposer. This disposes the sludge from the potato peeler swiftly and efficiently while retaining its invaluable services as a normal food waste disposer.

WASTE EJECTOR

The waste ejector is a fitting which dilutes the sludge effluent to enable it to flow easily through the drains without fear of blockage.

Waste ejectors are not recommended in the following circumstances:

- 1 A pipe run exceeding 15m between the machine and main drain.
- 2 When a fall of 1:15 cannot be achieved.
- 3 When the piping is exceptionally complex.

In any of these cases, use instead an interceptor tank. Water for the ejector must be taken from a storage tank not from a rising main, and must incorporate a stopcock.

Should the head of water from a storage tank be lower than the recommended 3m head it is necessary to drill out the jets in the ejector to 6mm diameter or refer back to the manufacturers for advice. The unit incorporates an air break to prevent back siphonage.

FITTING WASTE EJECTOR

If the waste ejector is not fitted to the peeler when it arrives, proceed as follows:

- 1 Remove existing waste outlet from the peeler.
- 2 Decide on which side the outlet pipe is to be connected and, if necessary, remove cover plate and gasket from the alternative waste outlet and refit to the original.
- 3 Fit ejector unit and gasket in place of the waste outlet.
- 4 The ejector unit has a 1/2" BSP connection for water supply on each side of the unit. Select which is to be used for water connection and use the plug for sealing off the other.
- 5 Connect the rubber hose between connector at the top of the unit and sprinkler at the top of the cylinder.
- 6 Proceed with the installation of the waste pipe.

WASTE EJECTOR ADJUSTMENTS

When the pipework is complete proceed with adjustments designed to give correct water regulation to the machine. Two adjusting screws and lock nuts are provided for this purpose. The top one controls the flow through the peeler, the lower controls the jet to the waste pipe. Slacken off the lock nuts and turn water supply full on. Adjust the top screw until the flow through the machine is between 2.25 and 7 litres per minute, then tighten the lock nut. Set the lower screw to allow a healthy jet of water into the waste pipe of 2.25 to 3.5 litres per minute. Judge the flow by inspecting the jet through the air break. Tighten the lock nut.

INSTRUCTIONS FOR OPERATION AND MAINTENANCE

Operation

- 1 Measure the potatoes into a container which holds a known measured weight and take out any stones which could jam the machine or damage the abrasive. Should this happen, the noise will indicate the presence of a stone; switch off immediately and remove it.
- 2 Turn on the water before loading the potatoes. Set timer to required run length and press 'start'. A prolonged operation cuts into the potato body and induces foaming in the waste pipe. Remember that firm potatoes peel faster than soft ones.
- 3 On completion of the cycle, switch off the water supply, restart the machine and open the chute door. This will discharge the potatoes. **ON NO ACCOUNT** put hand or implement into the machine.
- 4 Keep the finished potatoes under water until required for cooking.

A new machine will give a peeling cycle of 3/4 minute. This lengthens to about 1 minute after the initial period of the machine's life. Remaining constant for a considerable period the peeling cycle will eventually become more and more prolonged. This signals wear in the abrasive which should then be replaced.

The machine will initially provide a finished potato with a surface somewhat rougher than you may wish. This brief disadvantage however, enables a longer life of the abrasive to be ultimately achieved.

MAINTENANCE**Daily**

- 1 Keep the machine clean both inside and out.
- 2 Detach abrasive bottom plate and wash under tap. Clean brush thoroughly.
- 3 Clean the inside of the peeling cylinder and wash out pan.
- 4 Wipe the outside with a damp cloth.

Weekly

- 1 With the bottom plate removed grease the top of the centre spindle. Failure to do this may make it difficult to remove the bottom plate.
- 2 Oil the door lever, door hinge, pin and clamp knobs sparingly.

Annually

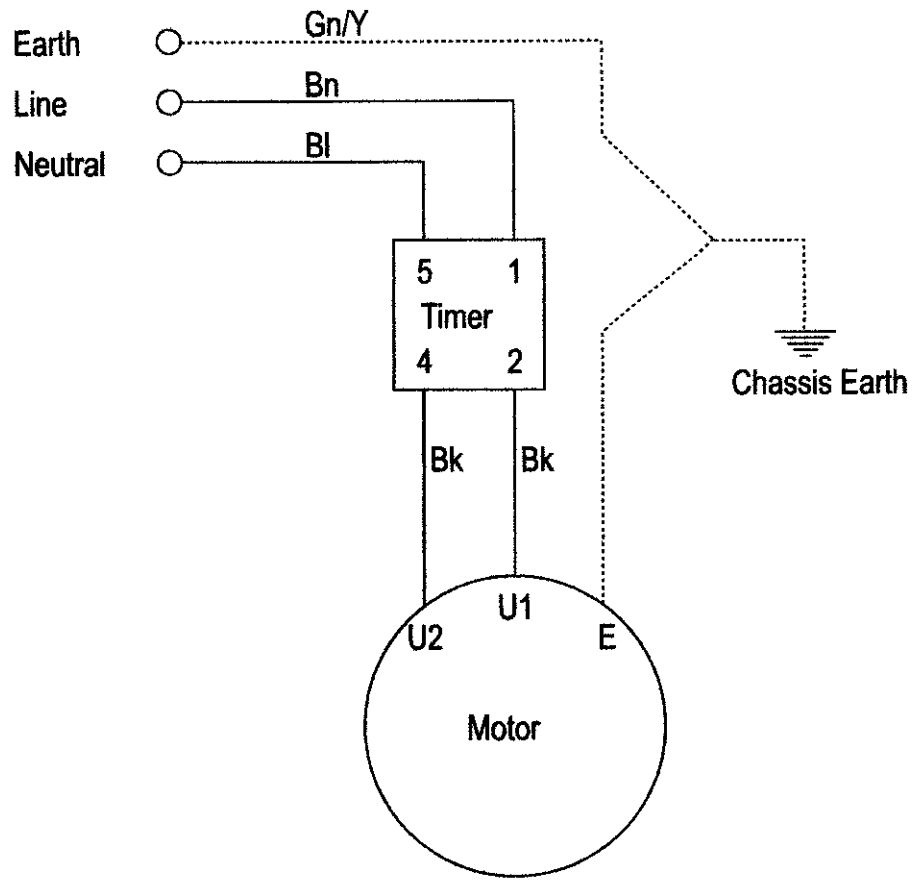
Check the belt tension and adjust if necessary by slackening the 3 screws holding the motor and moving motor outwards in its slots.

WARNING - DISCHARGE THE CAPACITORS BEFORE UNDERTAKING SERVICE WORK ON SINGLE PHASE MACHINES

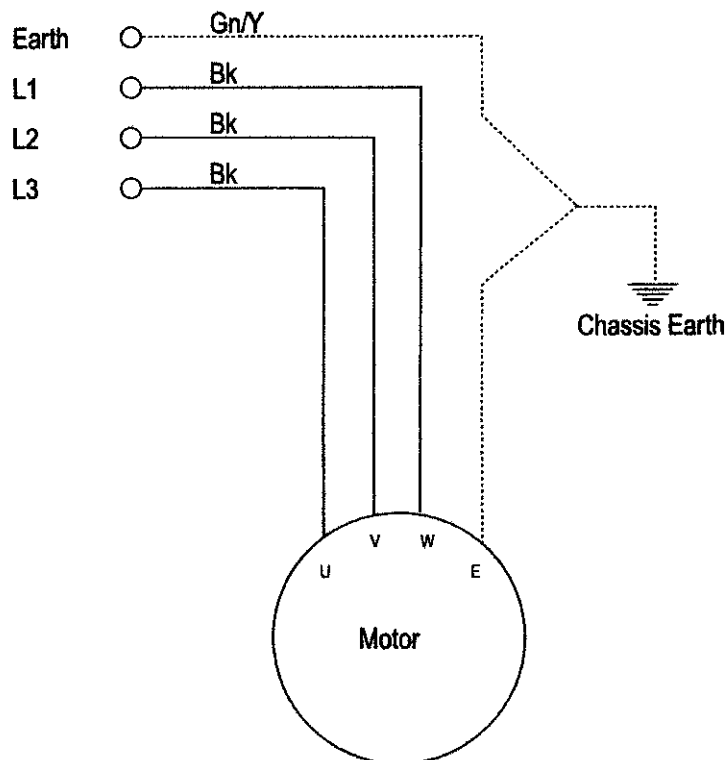
ORDERING SPARE PARTS

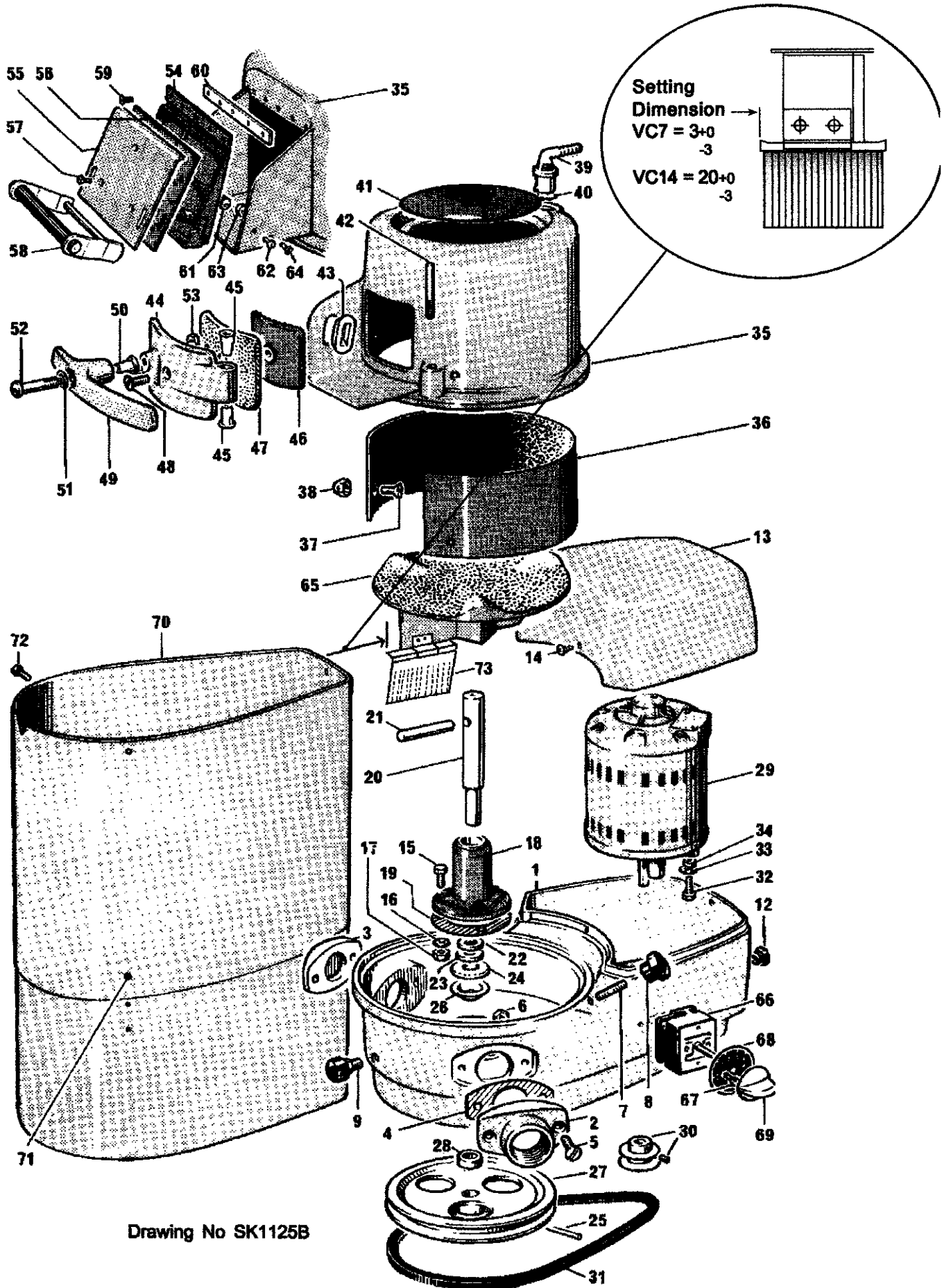
When ordering from the Parts List on the following pages, it is most important to quote the Series Number and the Voltage of the machine which are shown on the Rating Label on the back of the machine.

Wiring Diagram VC7T/VC14T - 1 phase Timer



Wiring Diagram VC7/ VC14T - 3 phase





Drawing No SK1125B

PARTS LIST MODELS VC7 AND VC14 POTATO PEELERS VC7 SERIES 22, VC14 SERIES 25

To be read in conjunction with Drawing No SK1125B

Illus	Part No VC7	Part No VC14	Description	Illus	Part No VC7	Part No VC14	Description
1	C07/001M1	C14/026M1	Base	51	D08/023	-	Washer 1½" x 1/16" x 1/42"
2	C07/006M1	C07/006M1	Waste Outlet				
3	C07/008	C07/008	Cover Plate	52	L02/016	-	Door Lever Bolt
4	A11/025	A11/025	Gasket Waste Outlet	53	D11/021	-	Nut M8 Special
5	D18/051	D18/051	Screw M6 x 20mm Csk SS	-	-	S58/041	Door Assembly
6	D20/013	D20/013	Nut M6 Full SS	54	-	M56	Door Moulding
7	D23/008	D23/008	Stud M10x40mm	55	-	E14/080	Cover
8	D28/004	D28/004	Clamp Knob	56	-	A11/185	Gasket
12	A10/062	A10/062	1 M Strain Relief Bush	57	-	D18/099	Screw M5x10 RH
13	C07/002M1	C07/002M1	Motor Cover				
14	D12/026	D12/026	Screw No 8 x ½" Type B Pan ZPS				DOOR HANDLE ASSEMBLY
15	D19/041	D19/041	Screw M6 x 25mm Hex				
16	D25/028	D25/028	Washer	58	-	E14/079	Door Handle
17	D20/022	D20/022	Nut M6 Full ZPS	-	-	L21/049	Handle Rod
	S58/020	S58/020	CENTRE BEARING ASSEMBLY Comprising items 18-24	-	-	L21/044	Handle Sleeve
	S58/021	S58/021	CENTRE BEARING HOUSING ASSEMBLY	-	-	L21/045	Sleeve Support
				-	-	L21/046	Distance Tube
				-	-	M79	Roller
				-	-	A10/439	1" Heat Shrink
				-	-	L21/047	Nut
				59	-	D08/024	Washer ¼" x 5/8" x 18 G
18	C06/002M1	C06/002M1	Centre Bearing Housing	60	-	D18/098	Screw M4x10 Sck SS
	A00/020	A00/020	Bearing 1" x 1¼" x 1½" Oilite	61	-	E14/063	Hinge Support Strip
	A02/036	A02/036	Seal 1"x 1½" x ¼"	62	-	L21/048	Eccentric
19	A11/170	A11/170	Gasket Centre Boss	-	-	D18/051	Screw M6 X 20
20	L02/004	L02/004	Centre Spindle	-	-	D20/031	Nut M6 Dome
21	D26/021	D26/021	Tension Pin ¾" x 2" ZPS	63	-	D25/005	Washer M6
22	D08/029	D08/029	Thrust Washer Steel 1½" x¾" x 15G	64	-	L02/014	Stop
				65	S58/030	S58/100	Screw M6 x 12 Pan SS
23	A00/021	A00/021	Thrust Washer Bronze 1½" x 7/8" x 1/8"		S58/090	D58/090	Bottom Plate Assembly
24	A11/046	A11/046	White Felt Washer	66	S99/013	S99/013	Timer Assembly
25	D26/008	D26/008	Tension Pin 6 x 45	70	E02/028D	E02/028D	240-1-50 Timer Kit
26	E02/063Z	E02/063Z	Thrust Housing		E02/028C	E02/028C	Pedestal Upper
27	C07/004M1	C07/004M1	Driven Pulley	71	D21/058	D21/058	Pedestal Lower
28	L02/008	L02/008	Spacer		D20/014	D20/014	Screw M8 x 25 Pan SS
	S58/050	S58/050	Motor Assembly 220/240-1-50		D25/012	D25/012	Nut M8 SS
29	G40/120	G40/120	Motor 1 ph 240-1-50	72	D22/021	D22/021	Washer M8 Seloc
30	A06/010	A06/010	Pulley 1¾" 'A' Section	73	A12/027-M4	A12/027M3	Screw No 14 x ¾" ZPS
	S58/110	S58/110	Motor Assembly 380/420-3-50				Brush
	G40/121	G40/121	Motor 3 ph 380/420-3-50				
	A06/010	A06/010	Pulley 1¾" 'A' Section				
31	A05/007	A05/011	Vee Belt				
32	D19/107	D19/107	Screw M6 x 40 Hex SS				
33	D25/015	D25/015	Washer				
34	L02/013	L02/013	Spacer				
	S58/010	S58/040	Cylinder Assembly				
35	C06/007M1	C14/025M1	Cylinder				
36	E02/012A	E14/041	Liner				
37	D18/019	D18/019	Screw M6 x 12 Csk				
38	D20/031	D20/031	Nut M6 Dome Brass				
39	S58/012	S58/012	Water Inlet Assembly				
40	D08/059	D08/059	Washer Wavy				
41	M64	M64	Splash Cover				
42	L21/009	-	Door Pin				
43	A13/004	-	Door Lever Catch				
	S58/011	-	Door Assembly				
44	C06/012M1	-	Door Outer				
45	A00/016	-	Bush				
	D25/067	-	Washer M3				
46	C06/013M1	-	Door Inner				
47	A11/011	-	Door Gasket				
48	D18/086	-	Screw M8 x 16 Csk				
49	C07/010M1	-	Door Lever				
50	A00/016	-	Bush				

NB Before ordering please
read the note on Page 6