VIBRA SANDMASTER
MODEL GSM1000i & GSM1500

INSTRUCTION AND PARTS MANUAL

IMPORTANT:
PLEASE READ BEFORE USE

BLEC VIBRA SANDMASTER
MODEL: GSM1000i/GSM1500

CONTENTS

SECTION 1 - DECLARATION OF CONFORMITY

BLEC VIBRA SANDMASTER
MODEL: GSM1000i/GSM1500

EC MACHINERY DIRECTIVE - DECLARATION OF CONFORMITY

We hereby certify that the following machinery complies with all the relevant essential Health and Safety Requirements of EC Machinery Directive 89/392/EEC as amended, and the National Laws and Regulations adopting this directive.

Machine Description: **VIBRA SANDMASTER** Make: **BLEC**

Serial Number: Model Number: **GSM1000i & GSM1500**

Made by: BLEC Global Ltd

Address: Mill House Farm Deeping Road Baston Peterborough PE6 9NW

ENGLAND

A technical construction file for this machinery is retained at the following address (if different from the above address).

Signed: 

Date: March 2009

Name: G MUMBY

Position: DIRECTOR

Being the responsible person appointed by the manufacturer, or nominated representative of the manufacturer established in the EC employed by:

BLEC Global Ltd
Mill House Farm
Deeping Road
Baston
Peterborough
PE6 9NW
ENGLAND

We thank you for choosing a BLEC product. The reliability, efficiency and safe working of this product depends on your care, so it is important to read this instruction book before use.

All BLEC equipment has been designed with careful attention directed towards the operator's safety, therefore it is vital that all safety precautions are carried out when working and maintaining the machinery. There are warning details placed on specific machines which should at all times be complied with, and listed overleaf are general safety notes which should always be followed.

Please find enclosed a registration and guarantee card for your attention. Please complete the necessary details and post the 'tear-off' section back to BLEC within 14 days of purchase for our records. Thank you.

SECTION 3 - PRODUCT RECORD SHEET

BLEC VIBRA SANDMASTER
MODEL: GSM1000i/GSM1500i

MACHINE TYPE: **BLEC VIBRA SANDMASTER**

MODEL NUMBER: _____

SERIAL NUMBER: _____

DELIVERY DATE: _____

DEALERS NAME & ADDRESS: _____

_____

_____

_____

TELEPHONE NUMBER: _____

OWNERS NAME & ADDRESS: _____

_____

_____

_____

_____

TELEPHONE NUMBER: _____

SAFETY NOTES

DO NOT	USE THIS MACHINE BEFORE READING THIS MANUAL
DO NOT	ALLOW PERSONS UNDER THE AGE OF 16 TO OPERATE THIS EQUIPMENT
DO NOT	OPERATE WITHOUT SAFETY CLOTHING/FOOTWEAR
DO NOT	ALLOW ANY PERSON OTHER THAN THE OPERATOR TO STAND NEAR THE MACHINE WHEN WORKING
DO NOT	ALLOW PEOPLE IN AND AROUND THE WORKING AREA
DO NOT	STAND ON ANY GUARDS
DO NOT	MAKE ANY ADJUSTMENTS WITH THE ENGINE RUNNING
DO NOT	GO UNDERNEATH THE MACHINE WITHOUT SAFETY PROPS
DO	MAKE SURE ALL GUARDS ARE IN PLACE
DO	OBEY SAFETY DETAILS
DO	MAKE SURE MACHINE IS SWITCHED OFF BEFORE MAKING ANY ADJUSTMENTS
DO	MAKE SURE EQUIPMENT IS IN A SAFE CONDITION
DO	MAKE SURE EQUIPMENT IS REGULARLY SERVICED

BLEC VIBRA SANDMASTER
MODEL: GSM1000i/GSM1500i

CONTROLS

PHOTO 1

CONTROL PANEL

GROUND BREAKER FRONT LIFTING CYLINDER

FLOW CONTROL VALVE (1 EACH SIDE)

DEPTH CONTROL STOP BARS

STAINLESS STEEL HOPPER

REAR LIFTING CYLINDER

FOOTPLATE (DO NOT STAND ON WHEN IN USE)

GROUND BREAKER DEPTH CONTROL WHEELS

PTO DRIVE SHAFT

GEARBOX TO ECCENTRIC SHAFT

ELECTRIC VALVE

VIBRA TINE

FLOTATION TYRES (6 OFF)

BLEC VIBRA SANDMASTER
MODEL: GSM1000i/GSM1500

CONTROLS

PHOTO 2A

PHOTO 2B

BLEC VIBRA SANDMASTER
MODEL: GSM1000i/GSM1500

CONTROLS

PHOTO 3

HYDRAULIC CYLINDER MOUNTING POSITION

LIFT UP SAFETY GUARDS

7 PIN ELECTRIC PLUG

WIRE TO 7 PIN PLUG ON TRACTOR

SCREWJACK HANDLE

DRAWBAR

PARKING JACK SPIGOT

PHOTO 4

POWER LIGHT

CONTROL PANEL

HYDRAULIC SHUT OFF PLATE

GREEN LIGHT GLOWS WHEN SAND IS FLOWING

AGITATOR ROTOR & FEED WALKING PLATE

RAISING & LOWERING OF HYDRAULIC CYLINDERS

BLEC VIBRA SANDMASTER
MODEL: GSM1000i/GSM1500

DESCRIPTION

The Vibra Sandmaster Model GSM1000i is a purpose built attachment for the BLEC Ground Breaker Model GB1000MT. It can be attached or detached in minutes to allow the Ground Breaker to be used solely for decompacting.

The Vibra Sandmaster system permits the use of sand, gravel or various soil amendments to be fed into narrow slits (15-20mm wide) at 26cm intervals, up to 20cm deep, to create a matrix of drainage slits with virtually no surface disturbance.
It is important that the Ground Breaker and Vibra Sandmaster are matched to the tractor as follows;

GB1000MT & GSM1000i - Minimum 40hp 4 wheel drive tractor fitted with creep speed or hydrostatic drive with 1 hydraulic spool valve and a free flow return to the tank (not into a return spool valve). A clevis type drawbar with pin and a 7 pin female electric plug is also required.

The working principle of the Vibra Sandmaster is as follows;

The Ground Breaker blades rotate and penetrate the ground producing narrow slits to a depth of between 10-20cm. The attached Vibra Sandmaster is fitted with vibrating coulter blades which are mounted directly in line with the Ground Breaker blades ready to open up the slits to 20mm.
Mounted over the top of the coulter blades is a stainless steel hopper which can hold approximately 1000-1250kg of sand/gravel, etc. Fitted inside the hopper is a mixing rotor and special walking feed plate to eliminate bridging and feed the materials into the vibrating coulter tines. A hydraulic shut off mechanism controls the amount to be used and sand or gravel is then forced into the slits and consolidated down by the rear compression tyres (See Photo 6).
The vibrating coulter tines are driven by the side PTO shaft direct from the Ground Breaker (See Photo 7).

DESCRIPTION

PHOTO 5

PHOTO 6

PHOTO 7

MOUNTING THE VIBRA SANDMASTER ONTO THE GROUND BREAKER

IMPORTANT - PLEASE FIRST READ THE SEPARATE GROUND BREAKER MANUAL BEFORE STARTING THE ATTACHMENT PROCESS.

- Always make sure the Vibra Sandmaster is standing on firm ground with the coulter tines resting on wood and with the hopper top parallel to the ground (See Photo 8).

PHOTO 8

- Now reverse the Ground Breaker until the mounting brackets and alignment pins enter the sockets in the Vibra Sandmaster frame. Locate bolts (4 off) and secure with locking nuts (See Photo 9).

PHOTO 9

MOUNTING THE VIBRA SANDMASTER ONTO THE GROUND BREAKER (CONTD)

- After securing nuts and bolts stop the tractor and release the hydraulic pressure on the Ground Breaker's transport wheel hydraulic cylinders by moving the spool valve lever both ways then removing the hydraulic hose assemblies (See Photo's 10 & 11) and store.

PHOTO 10

PHOTO 11

- Now remove each side wheel frame c/w wheel and hydraulic cylinder.

PHOTO 12

REMOVE PINS TO REMOVE WHEEL KIT

MOUNTING THE VIBRA SANDMASTER ONTO THE GROUND BREAKER (CONTD)

• Now fit the hose assemblies from the Vibra Sandmaster as below;

PHOTO 13

PHOTO 14

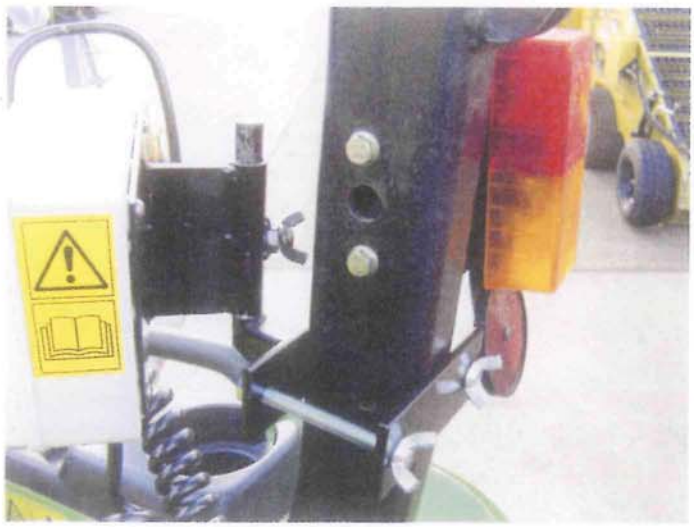
PHOTO 15

MOUNTING THE VIBRA SANDMASTER ONTO THE GROUND BREAKER (CONTD)

- Then take the control box and mounting bracket and fix to the tractor roll bar or you may need to find an alternative position if your tractor has a cab.

PHOTO 16

PHOTO 17



MOUNTING THE VIBRA SANDMASTER ONTO THE GROUND BREAKER (CONTD)

- Next connect the 7 pin plug into the socket of the tractor (See Photo 16). Then you will have to re-position the top hydraulic cylinder on the Ground Breaker from the position in Photo's 18 & 19A to the position in Photo 19B.

PHOTO 18

PHOTO 19A

PHOTO 19B

- Next, connect the side PTO shaft and secure the guard with chains (See Photo 20).

PHOTO 20

CONTROL PANEL (See Photo 21)

PHOTO 21

The hydraulic system on the Vibra Sandmaster, i.e. lifting cylinders (A & B) - mixing rotor and feed plate (C), hopper shut off plate (D) are operated by electric solenoid valves and from the control panel switches (See Photo 21).

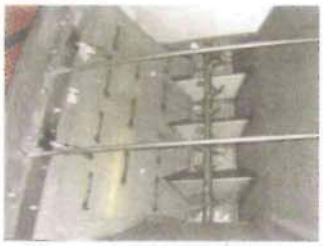
PHOTO 21A

REAR LIFTING CYLINDER

PHOTO 21B

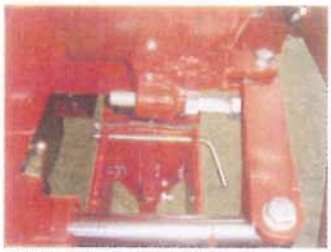
FRONT LIFT CYLINDER

PHOTO 21C



MIXING ROTOR & WALKING FEED PLATE

PHOTO 21D



SAND SHUT OFF ARM

TO OPERATE

- Turn side lights on tractor. Make sure power light is on.
- Supply oil to circuit by moving hydraulic spool valve lever to constant flow on tractor.
- **TO RAISE THE MACHINE** - Move 'Lift' switch to 'Up' and the rear Vibra Sandmaster hydraulic cylinders (2 off) should extend and raise the rear of the machine, then the front Ground Breaker should automatically raise.

TO OPERATE (CONTD)

- **TO LOWER THE MACHINE** - Move 'Lift' switch to 'Down' and the front Ground Breaker should lower first until the depth control bar stop touches the adjustable pin and spacer washer (See Photo 2A). The rear Vibra Sandmaster should then lower.

- **THE SPEED OF THE HYDRAULIC CYLINDERS** - can be changed by turning the flow control valves mounted on each cylinder (See Photo's 21A & 21B). First release the locking nut, then to decrease the speed rotate clockwise and vice versa. Then tighten the locking nut.

- **SAND FLOW CONTROL** - To control the amount of sand/gravel, etc flowing into the coulter tines a hydraulic shutter plate is used (See Photo 21D). To adjust the flow rate move the 'Feed' switch to 'On' until the lever is stopped by the threaded adjustable locking bolt. If more sand is required, undo the locking nut and screw in the bolt and then re-tighten the locking nut. To stop the sand from flowing, move the 'Feed' switch to 'Off'. Your machine will arrive with a pre set position for 'Start Up'.
  IMPORTANT - A green light will glow when the sliding shutter plate is open and sand is flowing out.

- **HOPPER FEED ROTOR AND MOVING PLATE ASSEMBLY** - The Vibra Sandmaster will work with both damp or dry sand. If you are using damp sand it will have a tendency to 'bridge', i.e. stop flowing in standard type hoppers, however with the BLEC Vibra Sandmaster the hopper has been designed with a feed system to stop 'bridging'. The hopper has a moving front side plate which 'walks' the sand downward into the bottom apertures. This, in conjunction with an agitator rotor (all driven via a hydraulic rotor) allows the use of damp sands together with many other difficult materials.
  To engage the feed rotor and moving plate, simply move the 'Mixing Rotor' switch to the 'On' position and to disengage switch to 'Off'.

- **HOPPER STONE AND DEBRIS PROTECTION** - A mesh screen is fitted inside the top of the hopper to stop unwanted stones and debris from entering into the vibrating coulter tines, (the mesh screen is 25mm). If you are using damp sand make sure that the sand is forced through the mesh holes when loading.

TO OPERATE (CONTD)

- **COULTER TINE FUNNEL ACCESS PLATE (See Photo's 22 & 23)** - Fitted to the rear of the vibrating coulter tine is a removable access plate (See Photo 23). To take out, first remove the clip and slide out pin. Then lift up back end plate. You will be able to gain access into the funnel of the tine to remove any unwanted objects.

PHOTO 22

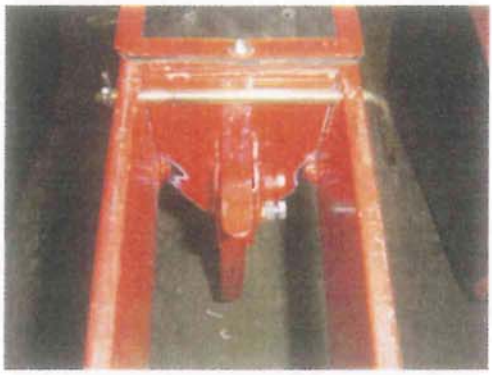
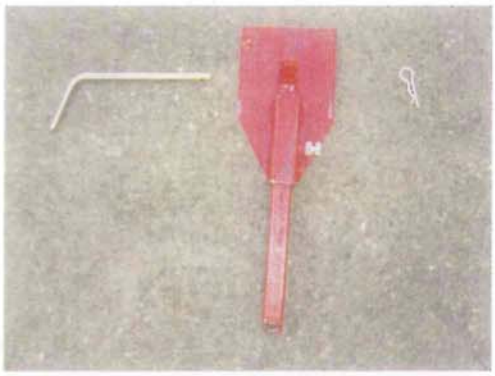


PHOTO 23



- **COULTER TINE DEPTH CONTROL** - The tine depth control is via the Ground Breaker's flat skids and the rear row of flotation tyres. As the hydraulic cylinders are single acting, adjustable depth control stop bars are mounted on each rear side of the Vibra Sandmaster (See Photo 24). A multi hole and spacer washer assembly are used to act as a stop so that every time the Vibra Sandmaster is lowered the same depth is always obtained.

PHOTO 24

The front Ground Breaker blades must dig deeper than the rear vibrating coulter blades (approx 25-40mm more). Adjustment for the depth skids is via the sidewinder jack handles which are both connected for ease of use.

TO OPERATE (CONTD)

- **TO ADJUST THE GROUND BREAKER BLADE DEPTH (See Photo's 25A & 25B)** First measure the distance the Ground Breaker's blades are protruding below the depth skids **(DO NOT GO UNDERNEATH THE MACHINE).** This is done by lowering the machine until the blades touch the ground and then measure the distance between the side skid and the ground. This distance is normally between 15-20cm. Now measure the distance between the skid and the bottom of the coulter blade. This distance should be between 25-40mm lower than the front Ground Breaker blade distance.

- **TO RE-ADJUST** - Wind the front screw jacks up or down until the correct balance is achieved.
  The depth control of sand/gravel in the slit is via the adjustable rear legs mounted to the coulter funnel access plate (See Photo 22). To adjust the depth simply loosen the locknut and clamp bolt - slide leg up or down (See Operation Section for correct position).

PHOTO 25A

PHOTO 25B

OPERATION

Please make sure you have carried out all previous instructions before attempting to use the Vibra Sandmaster.

It is important to understand that the ground conditions vary from site to site, so it will be necessary to inspect the soil for large obstacles, i.e. rocks, tree roots, drainage pipes, debris etc. before use.

The Vibra Sandmaster will produce an effective network of closely spaced drainage channels filled with sand and grit, otherwise known as sand banding. Before starting, plan out the direction you wish to take. Always run the Vibra Sandmaster across (i.e. 90 degrees) any main drains already installed in the ground and always dig down to find the depth of the backfilled gravel. This will then give you the required sand banding depth, normally between 15-20cm.

If there are no main drains existing in the ground the Vibra Sandmaster will still carry out an effective drainage operation but it will be necessary to plan out your direction of travel. Always allow the sand bands to run down hill into a dyke or culvert, or it may be necessary to construct a main drain.

STARTING

- Please make sure that all safety guards are in place.
- Make sure that the Ground Breaker and Vibra Sandmaster are raised clear of the ground and the sand shut off plate is closed. Also make sure that the PTO on the tractor is off, together with the hydraulic circuit.
- Select the material to be used (sand or grit) and check that there is no debris, soil or large stones. Then fill the hopper with only a small quantity, i.e. one third full for testing.
- **IMPORTANT** - Before starting work please carry out the pre-check as detailed on the next page.

PRE-CHECK PROCEDURE

- Check that the Ground Breaker skids are set to the correct height.
- Select a suitable, level grassed area.
- Make sure the area is checked for obstacles.
- Ensure that the tractor is the correct size i.e. minimum 38hp, 4 wheel drive, creep speed or hydro with 540rpm PTO and free flow return on the hydraulic circuit.

Then proceed as follows;

- Start the tractor
- Switch the side lights on - For power to the auxiliary circuit.
- Check red power light is illuminated on the top of the control panel.
- Move the spool valve lever to constant pumping of hydraulic oil.
- Lower the Ground Breaker (using the 'Lift Down' switch) until the Ground Breaker blades are within approx 50mm of the ground.
- Engage the PTO to 540rpm speed.
- Lower the Ground Breaker until the blades dig into the ground approx 50mm.
- Select a slow forward gear - 0.5mph (0.8kph).
- Drive forward and at the same time lower the machine slowly until the skids are resting on the surface.
- Next, stop the PTO and then the tractor.
- Go to the rear side of the Vibra Sandmaster and position the pin into the side bars using spacer washers, so the Vibra Sandmaster rear assy will not lower anymore, then secure with pin and clip (See Photo 26). Now go to the front adjustable stop bar (See Photo 2A) and set the pin and washers close to the red painted stop bar, so that the front Ground Breaker will not lower anymore.

PRE-CHECK PROCEDURE (CONTD)

PHOTO 26

- Start the tractor up, engage the PTO drive and drive slowly forward.
- Move the 'Feed' switch to 'On'. Sand and gravel will now be fed out behind the tine and the green light should glow.
- Drive for a short distance (about 2-3 metres), stop the PTO drive and then the tractor.
- Go to the rear of the Vibra Sandmaster and inspect the worked area, the sand should be level with the surface. If using grit the level should be 15-20mm lower. Remember the adjustment for the sand grit depth is the adjuster leg at the rear of the coulter blade funnel (See Photo 22).
- Please see the next section for 'Problem Solving'.
- When you have obtained the correct working depth and sand distribution continue working at a constant speed.
- The sequence for stopping and lifting up the Vibra Sandmaster is as follows;

1) Turn off feed hydraulic shut off cylinder approximately 3 metres before you wish the sand to stop flowing out. The green light should also go out.
2) Then, lift up the Vibra Sandmaster by moving the 'Lift' switch to 'Up'. The rear of the machine will raise first and then the front Ground Breaker.
   IMPORTANT - AT THIS POINT SWITCH OFF THE PTO DRIVE ON THE TRACTOR BEFORE THE GROUND BREAKER IS FULLY RAISED.
3) Raise up completely and drive forward.
4) Remember to switch off the side lights.

PROBLEM SOLVING

PROBLEM - Sand is below the surface level.

REMEDY - A) Raise the adjuster leg behind the coulter tine.
B) Travel slower forward.
C) Open up the shut off plate by screwing in the threaded bolt (See Photo 21D).

PROBLEM - Tractor tyres slipping (spinning).

REMEDY - A) Raise the Vibra Sandmaster at the front by adding spare washers or re-position the pin on the front stop bar. This will take the pressure off the front skids and allow more weight on to the tractor.

PROBLEM - The Ground Breaker rotor stops turning.

REMEDY - A) The overload clutch may require tightening. Turn nuts on spring bolts (6 off) half a turn then test (See Maintenance Section).
B) The chain may be broken, overload clutch springs too strong or the clutch plates may have seized up after a long period not in use. Dismantle the clutch and clean or replace the clutch plates. Repair chain.

PROBLEM - No power to the control box.

REMEDY - A) Change the fuse in the tractor.
B) Change the fuse in the power lead.

GREASING

BEARINGS

There are 13 bearings in total on the vibrating shaft and they are greased from the side external panel (See Photo 27)

PHOTO 27

10 OFF POSITIONED TOGETHER. REQUIRE GREASE EVERY 8 HOURS (DAILY). 1 PUMP ON THE HANDGUN IS SUFFICIENT.

3 OFF SPLIT BEARINGS REQUIRE GREASE EVERY 80 HOURS WEEKLY. 1-2 PUMPS ON THE HANDGUN IS SUFFICIENT.

The following points require grease every 8 hours (daily).

GEARBOX (See Photo 28)

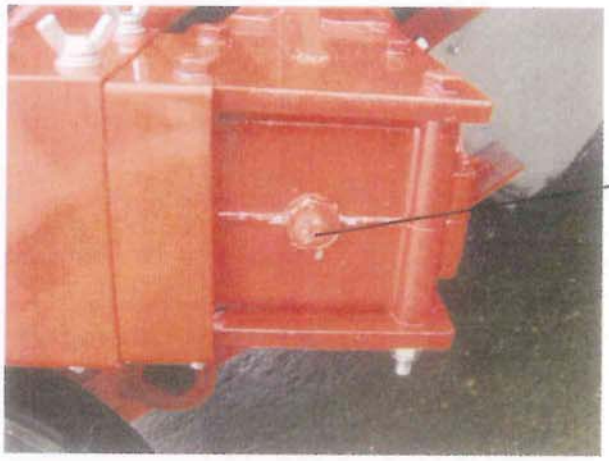
Please refer to separate Ground Breaker manual.

Check the oil level by unscrewing Plug A in the centre of the back plate. The oil should be up to the plug hole.

OIL - SAE 90 GEAR OIL

CHANGE EVERY 500 HOURS

PHOTO 28



REAR WHEEL SHAFT & SPACER TUBES (See Photo 29)

PHOTO 29

REAR FLOTATION TYRES

The tyres have been fitted with an anti-puncture sealant and should be inflated to 30 psi pressure.

AGITATOR/MIXING ROTOR (See Photo's 30 & 31)

Check the chain tension after the first 4 hours use by removing the inspection plate mounted on the guard and check the side play on the top chain. If it is more than 40mm, tighten by lengthening adjuster bolt B. First, loosen the lock nut until the oval adjuster moves upward, then re-tighten the lock nut. Apply more grease to the chain.

PHOTO 30

PHOTO 31

FEED (WALKING) PLATE INSIDE HOPPER

The feed plate is driven via a hydraulic motor and the shaft does not require lubrication.

STORAGE

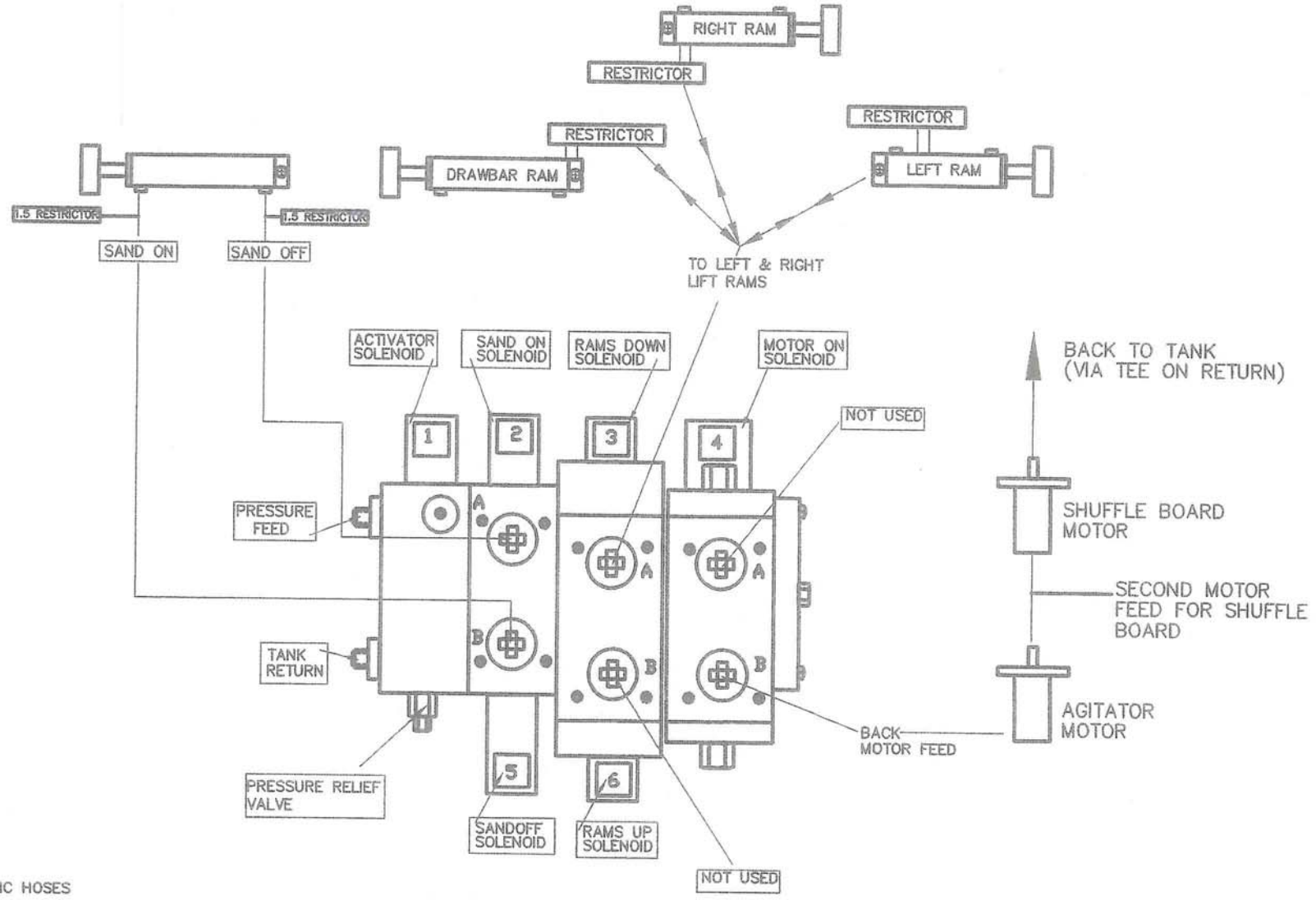
- Before storing the Vibra Sandmaster, wash out the hopper thoroughly and rinse the remainder of the machine.
- Grease up as previous instructions.
- Check the tyre pressures and raise up off the ground if storing for a long time.
- Grease the chrome on the hydraulic cylinders.
- Store inside if possible or cover with a sheet or tarpaulin.

PARTS LIST

VIBRA SANDMASTER

MODELS

GSM1000I & GSM1500



NOTES

WHEN REQUESTING HYDRAULIC HOSES
IDENTIFY HOSE REQUIRED ONLY

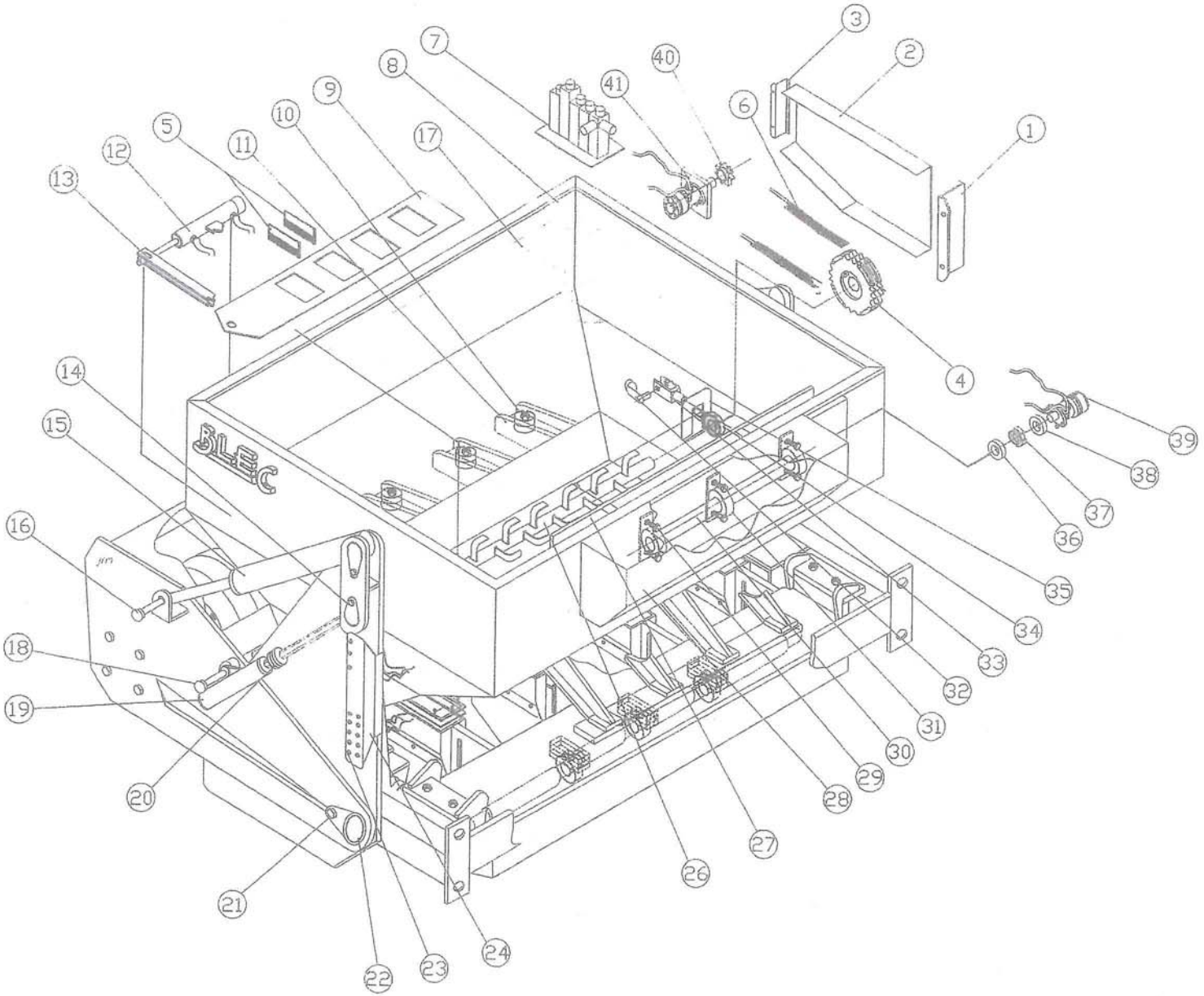
BLEC LANDSCAPING EQUIPMENT LTD

BLEC LTD HAS A POLICY OF CONTINUAL IMPROVEMENT AND RESERVE THE RIGHT TO CHANGE SPECIFICATION & DESIGN WITHOUT NOTICE.

SHAPING THE FUTURE

GROUNDBREAKER: MODEL GB1000MT

DRG NO SOLENOID V. ASSY



BLEC LANDSCAPING EQUIPMENT LTD

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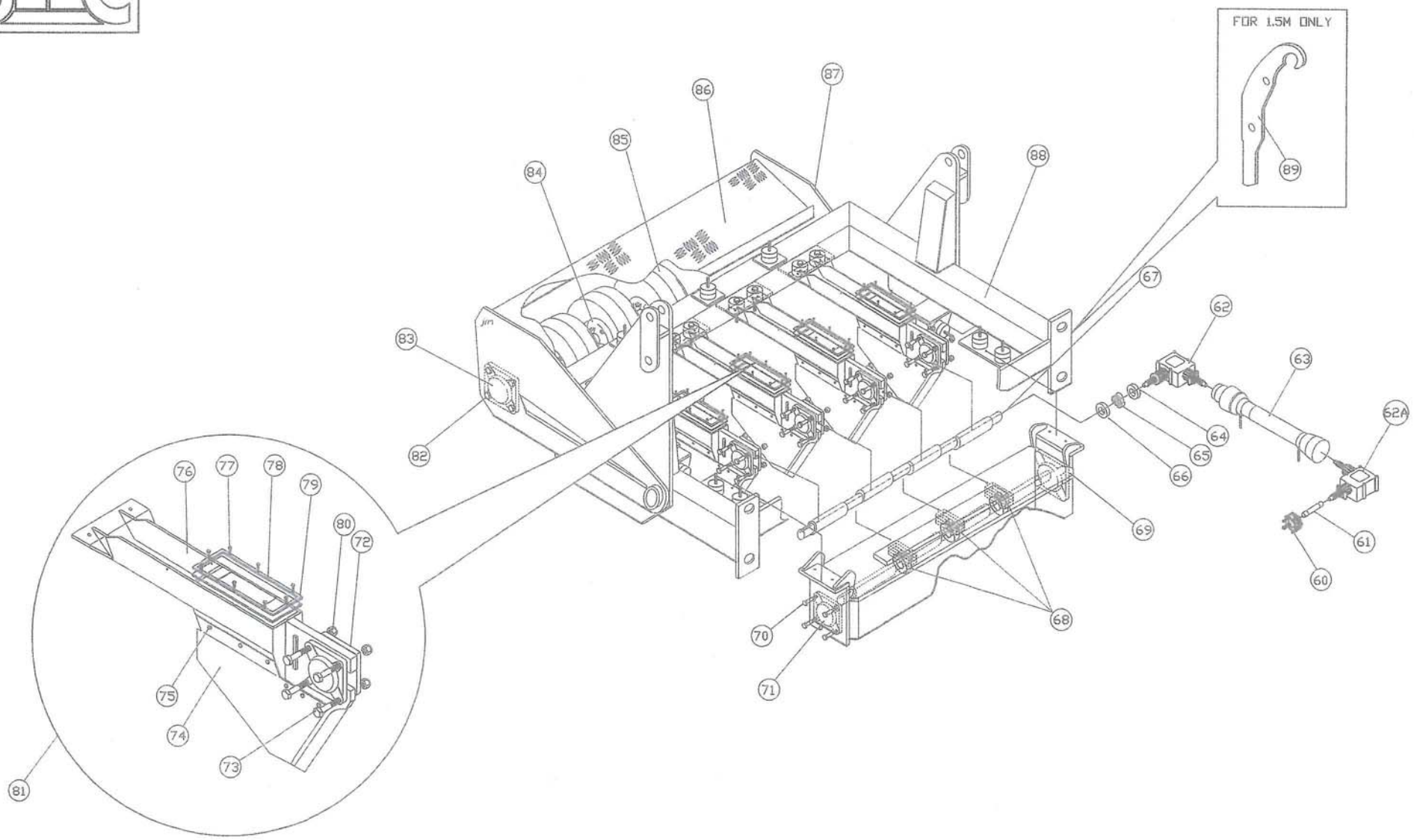
SHAPING THE FUTURE

SANDMASTER :MODEL GSM1000i /1500i

BLEC LANDSCAPING - DEEPING ST. JAMES - LINC'S - ENGLAND ©20

DRG NO

PARTS DIAGRAM



LEG ASSEMBLY ENLARGED
AMENDED 8.5.08 ITEM 62A

BLEC LANDSCAPING EQUIPMENT LTD

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SHAPING THE FUTURE

GROUNDBREAKER:MODEL GSM1000i
GSM1500i

DRG NO PARTS DIAGRAM

BLEC LANDSCAPING - DEEPING ST. JAMES - LINC'S - ENGLAND ©20

Vibra-Sandmaster PARTS LIST GSM1000i, GSM1500i

ILL. NO.	PART NO.	DESCRIPTION	1000	1500
1	BLVSM1CF0135	COVER, FRONT SECTION	1	1
2	BLVSM1CF0136	CHAIN GUARD	1	1
3	BLVSM1CF0137	COVER,REAR SECTION	1	1
4	BLVSM1S0138	SPROCKET	1	1
5	BLVSM1BS0139	BRUSH,SHUTTER	6	10
	BLVSM1BS0139A	FIXING CLIPS	12	20
	BLVSM1BS0139B	FIXING SCREWS	12	20
6	BLVSM1DC0140	DRIVE CHAIN, ROTOR	1	1
	BLVSM1DC0140A	PLASTIC TENSION SKID	1	1
	BLVSM1DC0140B	TENSIONER BRACKET	1	1
7	BLVSM1CV0141	CONTROL VALVE ASSY	1	
	BLVSM15CV0179	CONTROL VALVE ASSY		1
8	BLVSM15H0104	HOPPER ASSY	1	
	BLVSM15HA0180	HOPPER ASSY 1.5		1
9	BLVSM1SS0035B	FEED SHUTTER PLATE	1	
	BLVSM15FS0181	FEED SHUTTER PLATE		1
10	BLVSMRM0115	RUBBER MOUNT	17	23
11	BLVSM1RF0052	FRAME,HOPPER SUPPORT	1	
	BLVSM15HS0182	FRAME,HOPPER SUPPORT		1
12	BLVSM1RS0008	SHUTTER RAM	1	1
13	BLVSM1HA0077	SHUTTER LEVER	1	1
14	BLVSM1HA0078A	PIN,TOP (RAM)	2	2
	BLVSM1HA0078B	PIN,BOTTOM (DEPTH CON)	2	2
15	BLVSM1R007	HYDRAULIC RAM	2	2
16	BL04255	PIN,RAM END	2	2
17	BLVSM1MH0142	MESH,HOPPER	1	
	BLVSM15MH0229			1
18	BLVSM1WH0143	RAM SECURING PIN	2	2
	BL02174	SETSCREW	2	2
19	BLVSM1DC0122	DEPTH CONTROL	2	2
	BLVSM1DC0123	D.C PIN	2	2
20	BLVSM1SR0124	SPACER RING	10	10

21	BL02171	LOCKING BOLT, PIVOT PIN	2	2
22	BLVSM1P0125	PIN,PIVOT	2	2
23	SEE NOTES	GREASE FITTINGS		
24	BLVSM15H0068	GREASE STATION MOUNT	1	1
26	BLVSM1RS0125	ROTOR	1	
	BLVSM15R0183	ROTOR 1.5		1
	BL05124	BEARING, ROTOR	2	2
27	BLVSM1SP0004	SHUFFLE PLATE	1	
	BLVS15SP0184	SHUFFLE PLATE		1
	BLVSM15NS0230	NYLON SLIDE	A/R	A/R
	BLVSM1CK0144	C/SK SCREWS FOR SLIDE	A/R	A/R
28	BLVSM1LP0084	COVER	1	1
29	BL02173	BOLT,BEARING MOUNT	6	6
30	BLVSM1ST0126	SHAFT,SHUFFLE PLATE	1	1
31	BL05102	BEARING	3	3
32	BLVSMCP0127	PIN AND CHIP, CLEVIS	2	2
33	BL05147	HANGER BEARING 40MM	2	2
	BLVSM1ES0145	ECCENTRIC SLEEVE	2	2
	BLVSM1BI0146	THREADED INSERT FOR BRG	2	2
	BLVSM1TC0147	THREADED CONROD M16	2	2
34	BLVSM1CP0128	CLEVIS M16	2	2
35	BLVSM1BP0129	BACKING PLATE, FLAP	2	2
	BLVSM1RF0148	RUBBER FLAP	2	2
	BLVSM15SS0231	FIXING SCREWS	A/R	A/R
36	BLVSM1CS0130	COUPLING, SHAFT HALF	1	1
37	BLVSM1RC0114	RUBBER ELEMENT	1	1
38	BLVSM1CM0132	COUPLING, MOTOR HALF	1	1
39	BLVSM1H0133	HYDRAULIC MOTOR	1	1
40	BLVSM1SM0134	SPROCKET, MOTOR	1	1
41	BL6100	HYDRAULIC MOTOR	1	1
		GREASE FITTINGS		
		6MMBLACK POLY TYPE		

	BL04440	NIPPLE 1/8 BSP	A/R	A/R
	BL04460	BULKHEAD FITTING 1/8 BSP	A/R	A/R
	BL04461	QUICK FIT 1/8 BSP MALE	A/R	A/R
	BL04462	QUICK FIT 90 DEGREES	A/R	A/R
	BL04463	QUICK FIT M7 MALE	A/R	A/R
	BL04464	BLACK TUBE 6MM /MT	A/R	A/R
				A/R
		1/8 BSP TUBE TYPE		
	BL04440	NIPPLE 1/8 BSP	A/R	
	BL04465	FEMALE BUSH 1/8 BSP	A/R	A/R
	BL01000	DOWTY SEAL 1/8 BSP	A/R	A/R
	BL04466	TUBE 1/8M X 1/8 F-STATE LENGTH	A/R	A/R
	BL01041	ADAPTOR 1/8M X 1/8 MT BSP	A/R	A/R
60	BL12B0039	SLIP CLUTCH (1500 ONLY)	A/R	A/R
61	BLVSM15CS0185	COUPLER SHAFT	1	1
	BLVSM15CS0186			
62	BLVSM15GB0187	R/A GEARBOX	2	1
62A	BLVSM15GB0187A	R/A GEARBOX TOP	1	2
63	BLVSM15DS0188	DRIVE SHAFT (PTO TYPE)	1	1
	BLVSM15DS0189	DRIVE (KNUCKLE TYPE)		
	BL5038A	SHEARBOLT (1000 ONLY)	1	1
64	BLVSM15CS0190	COUPLER HALF	1	
65	BLVSM1RC0114	RUBBER ELEMENT	1	1
66	BLVSM15CS0191	COUPLER HALF	1	1
				1
67	BLVSM1CS0010	VIBRA-SHAFT	1	
	BLVSM15CS0192			
68	BLVSM15SB0193	SPLIT ROLLER BEARING	3	1
	BLVSM15BP0194	BEARING PEDESTAL	3	5
	BLVSM15BP0195	BEARING CARTRIDGE	3	5
69	BLVSMBF0036	VIBRA-SHAFT FRAME	1	5
	BLVSM15BF0196			
				1

70	BL05115	FLANGED BEARING	2	2
71	BL02255	BOLT	8	8
72	BL05117	FLANGED BEARING	8	12
73	BL02259	BOLT	16	24
74	BLVSM1SS0113	OPENER,LOWER SECTION	4	6
75	BL02125	SCREW M8 X 35	12	18
	BL02120	SCREW M8 X 12	24	36
76	BLVSM1SC0013	OPENER,UPPER SECTION	4	6
77	BLVSM15SS0197	SCREW,BUTTON HEAD	A/R	A/R
78	BLVSM1MT0018A	MEMBRAME CLAMP	4	6
79	BLVSM1MC0116	MEMBRAME CLAMP	4	6
80	BL03154	NUT,M16 NYLOC	16	24
81	BLVSM15AS0198	OPENER ASSY, LESS BRG & MEMB	4	6
82	BL02255	BOLT, M16X50	8	8
83	BL05117	BEARING	3	3
84	BLVSM15WH0199	WHEEL HUB (STATE LENGH)	6	8
	BLVSM15ES0200	END SPACERS	A/R	A/R
85	BLGB1WA0026	WHEEL ASSY	6	8
86	BLVSM1RS0098	FOOTPLATE	1	
	BLVSM15RS0201	FOOTPLATE		1
87	BLVSM1RS0102	FRAME, FOOTWORK	1	
	BLVSM1RS0202	FRAME, FOOTWORK		1
88	BLVSM1BA0040	FRAME, MAIN	1	
	BLVSM15BA0203	FRAME, MAIN		1
89	BLVSM15HM0227	SANDMASTER/GROUNDBREAKER		2
		MOUNTING PLATE		

CONDITIONS OF WARRANTY

(1) BLEC (Global) Ltd guarantees all equipment supplied by them against any defect in manufacture and assembly. This guarantee is for a period of one year. The period of guarantee commences on the date of delivery to the customer

(2) This guarantee is restricted to the first purchaser and is not transferable

(3) The BLEC (Global) Ltd guarantee may be invalidated where the following has been found to apply:-

a) The machinery has been used to perform tasks which require more than the design and strength limitations of the product.

b) The machinery has undergone modifications not approved by BLEC (Global) Ltd

c) Conditions of usage can be determined to be abnormal

d) Normal maintenance, in accordance with the requirements as set out and detailed by BLEC (Global) Ltd, has not been adhered to.

(4) No liability is accepted by BLEC (Global) Ltd in respect of machine or component failure when it can be determined that such failure was the result of using the equipment with one or more attachments not given prior applications approval by them.

(5) In the case of formulating a claim against the guarantee the procedure to adopt is as follow is:-

a) Notify the BLEC (Global) Ltd dealer from where you obtained the equipment within 10days of failure.
b) Make equipment available for inspection by Dealer technician.
c) If the failure is found to be the result of faulty manufacture or assembly, the failed components will be replaced entirely free of charge. Dealers are requested to make their report and claim upon BLEC (Global) Ltd within 28days of failure.

(6) Given correct maintenance and providing your BLEC (Global) Ltd machine is used for the purposes for which it was designed, we are sure you will have many years of effective and trouble free operation. Always consult your BLEC (Global) Ltd Dealer should you notice irregularities in operation or a decline in performance.

(7) These warranty terms are in addition to and not in substitution for and do not affect any right and remedies which an owner might have under statute or at common law against the seller of the goods under the contract by which the owner acquired the goods.

BLEC Global Ltd

NB: The aforementioned details in this manual are for general Guidance only, and BLEC (Global) Ltd cannot be held responsible for any misuse, or misinterpretation from these Details in any way whatsoever. The machine must never be Used in any unsuitable conditions or situations. If you have Any queries or doubts about particular details of the equipment Please contact our technical department immediately at:-

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