INSTRUCTION MANUAL

L-100 Linisher Sander (240V) 100 x 1500mm



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SAFETY RULES FOR ALL POWER TOOLS

- 1.Read and become familiar with the entire instruction manual. Learn the tool's applications, limitations and possible hazards.
- 2.Earth all tools. If the tool is equipped with a three-prong plug, it must be plugged into a three-contact electric outlet. The third prong is a ground to provide protection against accidental electrical shock. If an adapter is used to accommodate a two-contact outlet, the adaptor's grounding lug must be connected to a known ground. Never remove the thrid prong on a three-prong plug.
- 3. Check damaged parts. A guard or any other part that is damaged should be checked to ensure that it will operate properly and perform its intended function before the tool is used further. Check for proper alignment of moving parts and for possible broken parts, loose mountings, or any other condition that could affect the tool's operation. A guard or other damaged part should be properly repaired or replaced.
- 4.Disconnect power before servicing and when changing accessories such as blades, cutters.
- Keep guards in place and in working order.
- 6.Protect your eyes from being injured by objects thrown by a power tool. Always wear safety glasses or safety goggie:
- Wear a nace mass or outst mask of the outsing opening opening outside outs

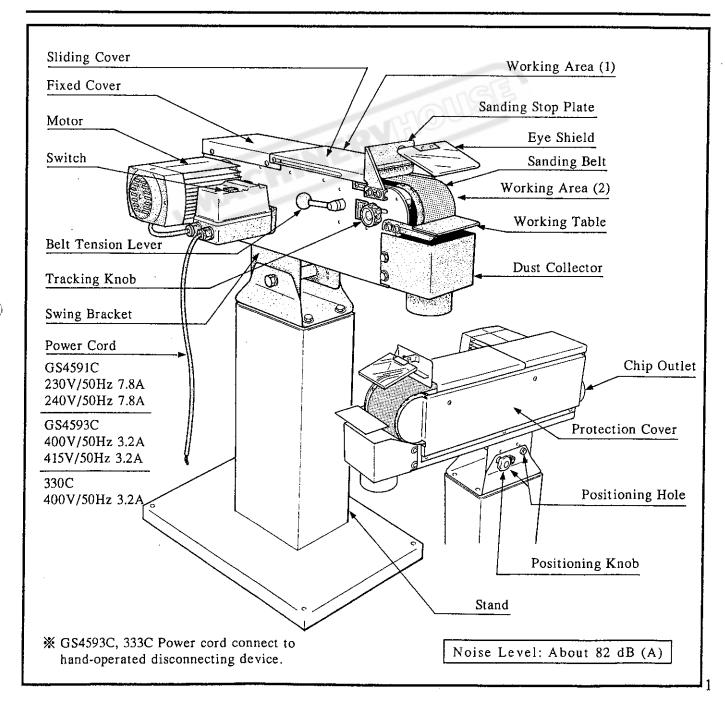
- 8.Don't force the tool. It will give a better and safer performance when used on jobs for which it was designed.
- 9.Avoid accidental starting. Ensure that the power switch is in the OFF position before plugging in the power cord. Remove the switch when the tool is not being used.
- 10.Remove adjusting keys and wrenches. Ensure that keys and adjusting wrenches are removed from the tool before turning it on.
- 11.Drugs, alcohol, and medication. Do not operate tool if you are under the influence of drugs, alcohol, or medication that could effect your ability to use the tool properly.
- 12.Use recommended accessories. Using improper accessories can be hazardous. If in doubt, check the instruction manual.
- 13. Never stand on a tool. Falls can result in injury.
- 14. Never leave a tool running unattended. Turn the power switch OFF. Don't leave the tool until it has come to a complete stop.
- 15. Always remove the power cord plug from the electric outlet when making adjustments, changing parts, cleaning, or working on the tool.
- 16. Avoid dangerous conditions. Don't use power tools in wet or damp areas or expose them to rain. Keep your work area clean and well-lighted. Do not use power tools in areas where fumes from paint, solvents, or flammable liquids pose a potential hazard.
- Keen visitors and children away, the people should keen a safe

- distance from the work area, especially when the tool is operating.
- 18.Use the proper tool. Don't force-a tool to do a job for which it was not designed.
- 19. Keep tools in top condition. Keep them clean and sharp for the best and safest performance. Follow the instructions for changing accessories and lubricating.
- 20.Secure all work. When practical use clamps or a vise to hold work. It is safer than using your hands and prevents round or odd-shaped pieces from turning.
- 21.Don't overreach. Keep proper footing and balance at all times. Wear oilresistant rubber-soled footwear. Keep the floor clear of oil, scrap wood, and other debris.
- 22. Wear proper clothing and , if necessary, protective hair covering. Loose clothing or jewelry can get caught in moving parts.
- 23.Make the workshop childproof with padlocks, master switches, or by removing starter keys.

TECHNICAL DATA

MODEL	GS4593C, 333C	GS4591C
MOTOR (OUTPUT)	1.5 kW	1.5 kW
PHASE	THREE	SINGLE
SANDING BELT	100×1500 mm	100×1500 mm
BELT SPEED	25m/sec (50Hz)	25m/sec (50Hz)
DRIVING WHEEL	Φ 170×106mm	Φ 170×106mm
FLAT GRINDING SURFACE	405×103mm	405×103mm
DIMENSIONS (L×W×H)	820×480×1100mm	820×480×1100mm
WEIGHT (NET/GROSS)	67.5/74 kgs	67.5/74 kgs

GETTING TO KNOW YOUR MACHINE



UNPACKING AND ASSEMBLY OF FITTINGS

After unpacking carton, check first if all accessories are correct. Make assembly of machine by order instructed in this manual.

9. Main body

For your Safety, must have someone help to hold main body when you mount it to the stand.

8. To set up chip outlet

①Chip Outlet ②Screw M6×10L×4

3Spring Washer M6×4

4. To set up working table ...

Turn this belt tension lever counterclockwise making belt in working condition, this would allow the correct mounting and adjustment of other related accessories. Put working table at correct position and keep proper distance to the sanding belt.

2. To set up stand

- (1)Stand
- ②Hex. Bolt

5/16"×3/4"L×4

Spring Washer

5/16"×4 (4) Washer

 $\Phi 8 \times \Phi 18 \times 2 \times 4$

10.Accessories

16mm Hex. Wrench

2:12mm Open Spanner



6. To set up sanding stop plate

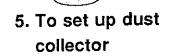
Install the sanding stop plate and make sure it does not touch sanding belt.

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7. To set up eye shield

Ref. No.	Parts /Description	Q'ty
1	Eye Shield	1
2	Support Plate	1
3	Hex. Bolt 1/4"×1/2"L	1
4	Washer $\phi 6.5 \times \phi 18 \times 2$	1
5	Spring Washer 1/4"	1
6	Wing Nut 1/4"	1
7	Screw 3/16"×7/16"L	2
8	Washer $\phi 5 \times \phi 12 \times 0.8$	2
9	Hex. Nut 3/16"	2



3. To set up positioning knob

Before put on the positioning knob. take off the small screw preset in this hole. This small screw is only for transportation, it's useless after your assembly and replaced by the positioning knob.

1. To set up bottom plate

①Bottom Plate

(2) Hex. Bolt

 $5/16" \times 3/4" L \times 4$

③Spring Washer 5/16"×4

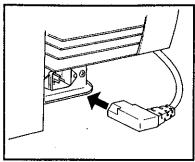
(4)Washer

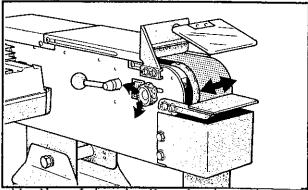
Φ8×Φ30×3×4

ADJUSTMENT OF SANDING BELT

Belt Tracking Adjustment

- 1.Plug into an electrical inlet on machine body before connect with power supply.
- 2. Turn tracking knob clockwise to make sanding belt toward left side





or turn counter-clockwise to make belt toward right side. Note: It is only allowed a tiny adjustment at each turn.

- 3. Rotate belt by hand, meanwhile adjust tracking knob.
- 4. Control the switch for a short on/off starting with left hand, meanwhile put right hand on tracking knob for clockwise or counter turnning till the belt runs stably between the two rollers.

Belt Tension Adjustment

Be sure the switch is on OFF position. Measure the belt tension from the bottom by thumb press. The tension was always well adjusted before delivery ex works. The adjustment is required when belt was used for a period of time and get loosed or when renewing the belt.

The Procedure for Belt Tension Adjustment.

- 1. Open the steel cover.
- 2. Turn the belt tension lever clockwise about 120 to release the tension.
- 3. The hex. nut is designed to hold the adjusting rod in position against the vibration during operation. This nut needs to be loosened before making adjustment, and tightened after adjustment.

4. If the belt tension is too low.

Turn adjusting rod (part No. 15) upward to gain tension.

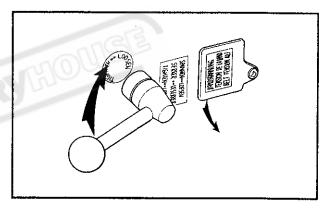
If the belt tension is too high.

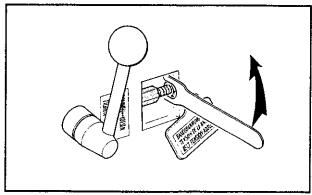
Turn adjusting rod (parts No. 15)downward to release tension.

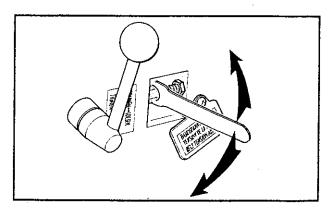
5. Tips for adjustment.

Each turning of adjusting rod makes rubber roller outward (of inward) about 2.5mm. A micro adjustment, 0.42mm for each phase turning of adjusting rod, is recommended.

- 6. Close the steel cover and push down the belt tension lever.
- 7. After this adjustment, try with Tracking Adjustment.

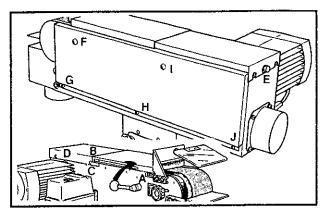


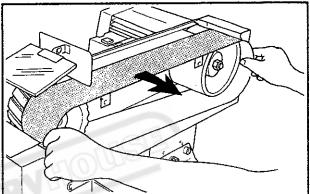




REPLACEMENT OF BELT

- 1. Pull belt tension lever upward.
- Loosen 5 screws (A/B/C/D/E), take off the belt protection covers completely. Take off 5 screws (F/G/H/I/J), remove the side protection cover, and remove the used belt.
- 3. Locate the new belt on two rollers.
- 4. Push belt tension lever downward.
- 5. Rotate belt by hand, meanshile adjust tracking knob as a pretest before power test.
- 6. Locate protection cover then use left hand to control the switch with a short on/off starting, meanwhile put right hand on tracking knob for clockwise or counter turning till the belt runs stably between the two rollers.
- Check belt tension. If the tension is improper for working, then begin the adjustment procedures (see page 3) until the tension is satisfactory.
- 8. Repeat the procedures of hand test and power test for belt runs stably between the two rollers.





IMPORTANT NOTICE FOR CE

Handling of Machine

- 1. The total weight of this machine must be ensured before handling.
- 2.It is better to handle this machine with the help of lifting tools.

Environment Requirements for Installation.

- 1.Be sure to provide sufficient light for operation according to the codes or regulations published for local area. If you do not get the information about lighting, a light intensity of 300 Lux is the least value to be supplied.
- 2. The place where machine install must be flat and big enough for the operation.

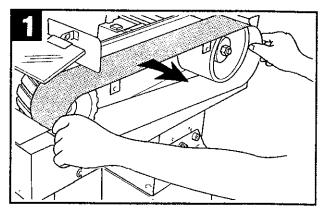
Noise Level

- 1. The noise level of this machine is about 82 db(A) during operation.
- 2. While taking provisions for the risk of noise, the noise level of working environment should be taken into consideration also.

REPLACEMENT OF PRIME WHEEL

1 Move the belt

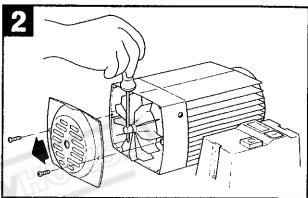
Take off the sliding cover, fixed cover and the protection cover. (refer to page 4) then remove the belt.



2 Remove the motor rear cover

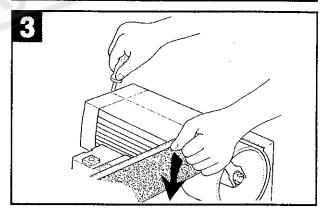
Remove the motor rear cover by remove two screws.

Use screwdriver or steel bar to insert the hole at the end of motor shaft, then hold the bar tighten and keep motor shaft steady.



3 Loosen the nut of roller

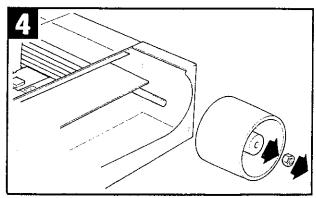
Use spanner hold the nut at the other end of motor shaft. Turn screwdiver and spanner at reversed direction, this will loosen the nut of roller.



4 Reload new prime roller

Take off the nut, used prime (aluminium) roller is removed.

Reload new prime roller.

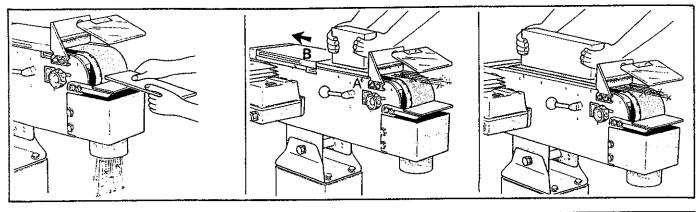


EXAMPLE OF OPERATION

Example

Roller sanding Hold workpiece firmly by hand and use working table as support for roller sanding. For small job. loosen screws A and B to open the sliding cover to the proper position. Tighten screw B before working. Hold workpiece firmly by hands against sanding belt.

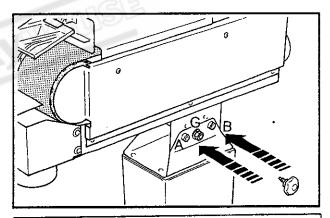
If you have one big workpiece, remove blet covers completely (it's a sliding cover and one fixed cover by 5 pieces of screws). Be sure to hold workpiece tightly

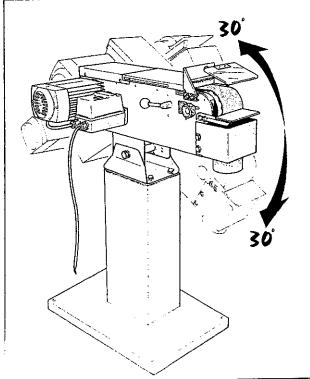


ADJUSTMENT OF WORKING ANGLES

This machine is designed for the adjustment of working angles from -30 to +30 degree. Users are able to choose the most comfortable and efficient working angle in this range.

- 1. Loosen hex nut G about half or one turn.
- 2. Hold main body by one hand, release the positioning knob completely by another hand.
 Swivel main body to the desired working angle, insert the positioning knob and fixed it.
 For the angles of 0/15/30 degrees, insert positioning knob to hole A. For the angles of 7.5/22.5 degrees, use hole B.
- 3. Tighten nut G. This machine is ready for work.





ELECTRICAL CONNECTION/DISCONNECTION & OPERATION

FOR THREE PHASE

1. Electrical connection:

1.1.A cable with four wires is equipped to connect your machine into the 3 phase power supply. **Please**

connect your machine into the power supply with hand-operated disconnecting device, which is in compliance with subclause 5.3 of EN60204-1, such as no fuse breaker or plug/socket combination.

- 1.2. For the protection of control device, we recommend the operator to supply **a fuse with 6** amp. current rating of fuse, and the total length between fuse and connection terminal shall not exceed 1.5 m.
- 1.3. The exact power source voltage, frequency, and number of phase shall be checked according to the installation diagram and circuit diagram.
- 1.4. The correct direction of sander should be checked after connecting.

2. Electrical disconnection:

- 2.1. The disconnection is carried out by hand-operated disconnecting device.
- 2.2. Be sure to disconnect this machine from power source, when you want to stop the job, maintenance, and adjustment.

3. Grounding.

The grounding of the sander is carried out by connecting the Yellow/green terminal of supply cable to the grounding terminal of power source. Be sure to ground your machine before connecting machine to power source in any situation.

WARNING!

Do not disconnect grounding terminal before disconnecting power source.

FOR SINGLE PHASE.

- 1. The connection, disconnection, and grounding is carried out through the plug, equipped on the sander. For the safety reason, Do not change this plug into any the other type in any situation.
- 2. For the protection of control device, we recommend the operator to supply a fuse with 20A current rating of fuse, and the total length between fuse and connection terminal shall not exceed 1.5 m.
- 3. The exact power source voltage, frequency, and number of phase shall be checked according to the installation diagram and circuit diagram.

WARNING!

Ensure that the power switch is in OFF position before electrical connection and disconnection.

OPERATION.

- 1. "START": Push the button marked with " | ".
- 2. "STOP": Push the button marked with " 0 ".

MAINTENANCE:

- 1.Be sure to disconnect the sander from power source.
- 2. If motor being overload, the overload relay will be active.

If you want to reset sander, open control enclosure and then push the reseted button of overload relay.

PARTS NAME

Front Support

Screw Screw Switch Box Cover

Switch Box

Screw

Screw

Supporting Plate

Strain Relief

Power Cord

Packing

Wiring Box Cover

Screw

Wire Connector

Wiring Box

Screw

Int. Washer

Packing Packing Strain Relief Screw

PARTS LIST

REF. NO.	· PARTS NAME	REF. NO.	PARTS NAME
-	Screw	30	Washer
7	Screw	31	Hex. Bolt
'n	Spring Washer	32	Rubber Roller
4	Dust Proof Cover	33	Snap Ring
5	Base	34	Ball Bearing
9	Washer	35	Bush
7	Hex. Bolt	36	Shaft
∞	Bush	37	Snap Ring
5	Dust Proof Plate	38	Graphite Packing
10	Belt Support	39	Sanding Belt
	Arrow Mark	40	Protection Cover
12	Саш	4	Bush
13	Hex. Nut-Looseproof	42	Square Neck Bolt
14	Press Block	43	Upper Bracket
15	Adjusting Rod	44	Washer
16	Hex. Nut	45	Spring Washer
17	Sliding Block	46	Hex. Nut
- 18	Pin	47	Hex. Nut
61	Adjusting Block	48	Positioning Knob
20	Spring	46	Hex. Bolt
21	Spring Stop Plate	20	Lower Bracket
22	Upper Support	51	Hex. Bolt
23	Cap Screw	52	Stand
24	Block Stop Plate	53	Bottom Plate
25	Lower Support	54	Chip Outlet
26	Fixed Cover	55	Ball Knob
27	Sliding Cover	56	Loosen-Tighten Plate
28	Aluminum Roller	57	Screw Shaft
29	Hex. Nut	58	Cam Shaft

	REF. NO.	PARTS NAME	REF. N
	59	Cover Screw	88
	9	Wave Washer	68
	61	Adjusting Plate	06
	62	Cover	91
	63	Cover Plate	92
	64	Washer	93
C	65	Spring	94
X,	99	Tracking Knob	.95
7)	<i>L</i> 9	Cap Screw	96
	89	Washer	97
	69	Working Table	86
	70	Hex. Bolt	66
	71	Hex. Bolt	100
	72	Sanding Stop Plate	% 101
	73	Wing Nut	% 102
	74	Screw	% 103
	75	Support Plate	104
	9/	Eye Shield	105
	77	Washer	106
	78	Hex. Nut	107
	79	Dust Collector	% 108
	80	Screw	109
	81	Rear Protector	110
	82	Fan	111
	83	Rear Support	112
	84	Ball Bearing	113
	85	Rotor	114
	98	Stator Housing	115
	87	Ball Bearing	

Running Capacitor

Capacitor Cover

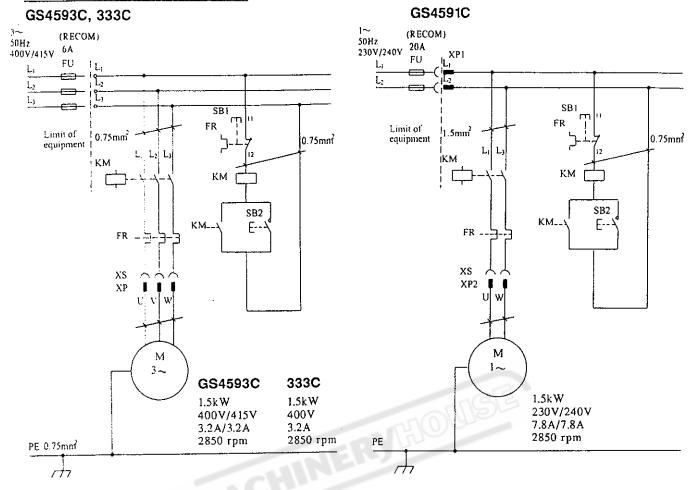
Plug Plug Socket

Capacitor Sleeve

Ext. Washer

Copper Set

Electrical circuit diagram.



Electrical components Parts List.

item Designation	Description & Function	Technical Data	Remark
	D.O.L. starter	IP 65	
KM	Magnetic contactor	AC3-1-1,600 Vac, 20A	IEC 158-1, VDE 0660
FR	Overload relay for three phase	2.7~4.4 3.1 A	IEC 292-1,BS775
FR	Overload relay for single phase		
SB1	push button for OFF		
SB2	push button for ON		
XS	Socket for three phase Socket for single phase	500 Vac,10A	
ΧP	Plug for three phase	500 Vac,10A	
XP1 XP2	Plug for single phase	250Vac,16A	DNS
	Cable for 3~ Cable for 1~	VCTF, 4×0.75mm² H07RN-F, 3×1.5mm²	