

SIP Industrial Products
Limited
Gelders Hall Road
Shepshed
Loughborough
Leicestershire
LE12 9NH
United Kingdom



SIP 8" x 2" Bench Grinder / Belt Linisher



Please read and fully understand the instructions in this manual before operation. Keep this manual safe for future reference.

SIP Code 01459

For help or advice please contact your distributor, or SIP directly :

Tel.: 01509 500400 Email: sales@sip-group.com

customerservice@sip-group.com

www.sip-group.com



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SAFETY SYMBOLS USED THROUGHOUT THIS MANUAL



Danger / Caution: Indicates risk of personal injury and/or the possibility of damage.



Note: Supplementary Information.



Important: Please read the following instructions carefully, failure to do so could lead to serious personal injury and / or damage to the jack.

SAFETY INSTRUCTIONS

1. **KNOW YOUR TOOL**

Read and understand the owners manual and labels affixed to the tool. Learn its application and limitations as well as its specific potential hazards.

2. **KEEP GUARDS IN PLACE.**

Keep in good working order, properly adjusted and aligned.

3. **REMOVE ADJUSTING KEYS AND WRENCHES.**

Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

4. **KEEP WORK AREA CLEAN.**

Cluttered areas and benches invite accidents. Make sure the floor is clean and not slippery due to wax and sawdust build-up.

5. **AVOID DANGEROUS ENVIRONMENT.**

Don't use power tools in damp or wet locations or expose them to rain. Keep work area well lit and provide adequate surrounding work space.

6. **KEEP CHILDREN AWAY.**

All visitors should be kept a safe distance from work area.

7. **MAKE WORKSHOP CHILD-PROOF.**

Make workshop child-proof with padlocks, master switches or by removing starter keys.

SAFETY INSTRUCTIONS Cont...

8. *USE THE CORRECT SPEED.*

A tool will do a better and safer job when operated at the correct speed.

9. *USE RIGHT TOOL.*

Don't force the tool or the attachment to do a job for which it was not designed.

10. *WEAR CORRECT PPE.*

Do not wear loose clothing, gloves, neckties or jewellery (rings, watch) because they could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Roll up long sleeves above the elbows.

11. *ALWAYS WEAR SAFETY GLASSES.*

Always CE / UKCA approved wear safety glasses . Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses. Also use a face or dust mask if operation is dusty.

12. *DON'T OVERREACH.*

Keep proper footing and balance at all times.

13. *MAINTAIN TOOL WITH CARE.*

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

14. *DISCONNECT TOOLS.*

Before servicing, when changing accessories or attachments.

15. *AVOID ACCIDENTAL STARTING.*

Make sure the switch is in the "OFF" position before plugging in.

16. *USE RECOMMENDED ACCESSORIES.*

Consult the manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

17. *NEVER STAND ON TOOL.*

Serious injury could occur if the tool tips over. Do not store materials such that it is necessary to stand on the tool to reach them.

18. *CHECK DAMAGED PARTS.*

Before further use of a tool, the guard or other parts should be carefully checked to ensure that they will operate properly and perform their intended function. Check for alignment of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other parts that are damaged should be properly repaired or replaced.

19. *NEVER LEAVE MACHINE RUNNING UNATTENDED.*

SAFETY INSTRUCTIONS Cont...

Turn power "OFF". Don't leave any tool running until it comes to a complete stop.

20. INSTALLATION

Install the item on a stand or workbench to prevent from tipping / moving during use.

DO NOT ABUSE THE MAINS LEAD: Never carry or move the grinder by the mains lead or pull it to remove the plug from the mains socket. Keep the mains lead away from heat, oil and sharp edges. If the mains lead is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid unwanted hazards.

CHECK FOR DAMAGED PARTS: Before every use of the grinder, a guard or other part that is damaged should be carefully checked to determine that it will operate correctly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, and any other conditions that may affect its operation. A guard or other part that is damaged should be correctly repaired or replaced by an authorised service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorised service agent. Do not use the tool if the switch does not turn it on and off.

KEEP ALL GUARDS IN PLACE: And in full working order.

MAINTAIN TOOLS WITH CARE: Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged.

USE ONLY RECOMMENDED ACCESSORIES: Consult this user manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards and will invalidate any warranty you may have.

REMOVE ADJUSTING KEYS AND WRENCHES: Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before every use.

DO NOT FORCE THE TOOL: It will do the job better and more safely at the rate which it was designed.

DO NOT OPERATE POWER TOOLS IN EXPLOSIVE ATMOSPHERES: Do not use the grinder in the presence of flammable liquids, gases, dust or other combustible sources. Grinding will create sparks which can ignite the dust or fumes.

DO NOT EXPOSE THE TOOL TO RAIN OR USE IT IN WET CONDITIONS: Water entering the grinder will greatly increase the risk of electric shock.

SAFETY INSTRUCTIONS Cont...

KEEP THE MAINS LEAD WELL AWAY FROM THE CUTTING WHEEL: The mains lead should

be secured away from the cutting wheel at all times to avoid the risk of electric shocks. Replace any damaged or tired looking leads immediately with the correct rated cable.

ALWAYS CHECK THE WHEEL: Always inspect the wheel for cracks and general condition before use as they could shatter at high speed causing injury to the operator and fellow work mates . If using an old wheel ensure that it hasn't gone soft as the bond that holds it together can go off over time.

Use only the wheel flanges and nuts specified for this tool.

Before each use; Ensure that the wheel retaining nuts are fully secure.

Ensure that the grinder is securely bolted to a stable surface so it will not move during operation.

Ensure that the work-piece to be ground is clear of the grinding wheel before the switch is turned on.

Before turning on the grinder, turn the wheel by hand to ensure nothing is catching, then turn the grinder on and let it run for a while; Watch for vibration or excessive wobble of the wheel that could indicate poor installation or a poorly balanced wheel. Adjust or replace as necessary.

Allow the wheel to run up to full speed before grinding.

Stop operation immediately if you notice, or suspect anything abnormal.

Wait for the grinder to stop completely and remove the plug from the mains supply before servicing or adjusting the grinder.

Be alert at all times, especially during repetitive, monotonous operations. Don't be lulled into a false sense of security. Grinding wheels are extremely unforgiving.

Do not modify the grinder to do tasks other than those for which it was designed.

Ensure tool rests and eye shields are correctly adjusted.

Only use grinding wheels that are rated for the correct speed.

Do not overload the grinding wheel; stalling the machine will shorten its life.

After fitting new grinding wheel, leave machine running for at least one minute. If the wheel is faulty it will break during this test period.

Stand to the side of the grinder during initial start up.

SAFETY INSTRUCTIONS Cont...

Use a wheel dresser only to remove burrs on the grinding wheel.

If the grinder is used in a place of work all rules and laws etc. relating to the use of portable electrical appliances should be followed.



When using the grinder / lisher always ensure the operator as well as those in the area wear eye protection.



Grinding & lishing produces particles which can become airborne and have the potential to be highly toxic; always wear a face mask when operating the grinder.



When using the grinder / lisher always ensure the operator as well as those in the area wear ear protection, particularly during periods of extended use.



Caution: The warnings and cautions mentioned in this user manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied.

GUARANTEE

This SIP Bench Grinder / Belt Linisher is covered by a 24 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the product outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges Including, but not limited to parts, labour and carriage costs.

This guarantee does not cover consumables such as grinding wheels, linishing belts, eyeshields etc.

ELECTRICAL CONNECTION

WARNING! It is the responsibility of the owner and the operator to read, understand and comply with the following:

You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage.

You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices; A residual current circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a residual current de- vice (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician.

Connecting to the power supply:

This item is fitted with a standard 230v ~ 13 amp type plug. Before using the grinder, inspect the mains lead and plug to ensure that neither are damaged. If any damage is visible have the product inspected / repaired by a suitably qualified person. If it is necessary to replace the plug a heavy duty impact resistant plug would be preferable

The wires are coloured in the following way:-

Yellow / Green - Earth

Blue - Neutral

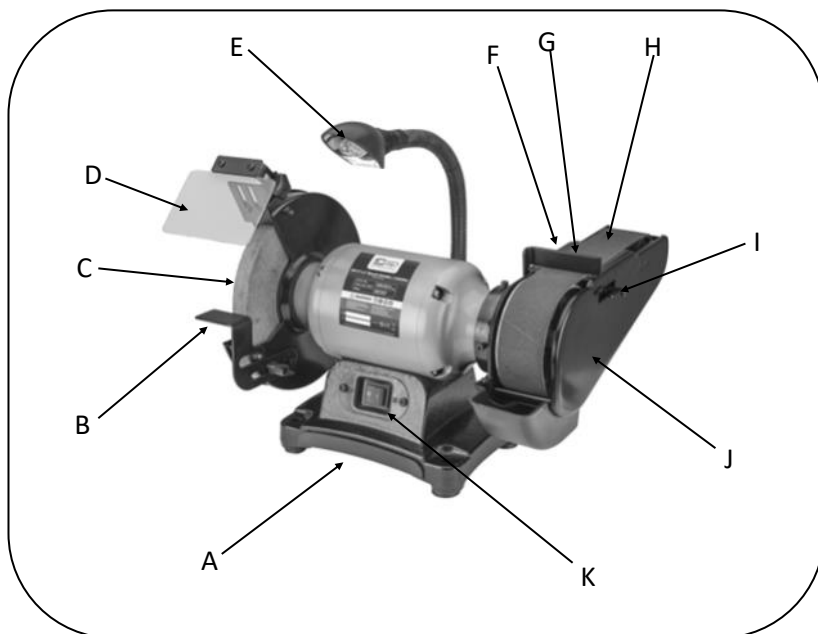
Brown - Live



TECHNICAL SPECIFICATION

Model	01459 2" x 8" Grinder / Belt Linisher
Voltage	220v - 240v 50Hz
Motor	S1 370watts / S2 550watts 30mins
Motor - No Load Speed	2980rpm
Wheel Size	200mmØ x 15.88mm - 20Ømm Bore x 60G
Belt Size	50mm wide x 710mm Length x 80G
Bulb	230v LED 2W SES (E14)
Protection	IP20
Prod Dims	380 x 400 x 340mm
Packaged Dims	500 x 340 x 340mm
Weight	17.6kg GW / 16.5kg NW

GETTING TO KNOW YOUR GRINDER / BELT LINISHER

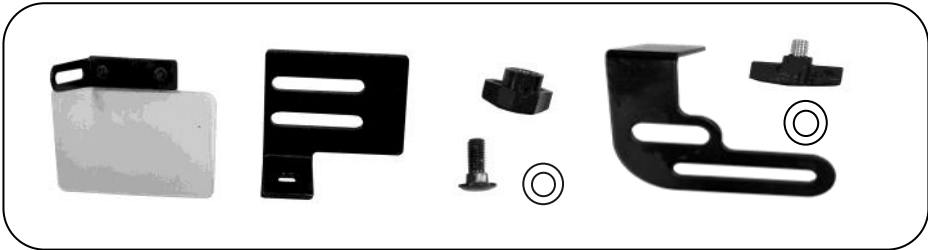


GETTING TO KNOW YOUR GRINDER / BELT LINISHER Cont...

<i>Item</i>	<i>Description</i>	<i>Item</i>	<i>Description</i>
A	Coolant Tray	G	Linisher Fence
B	Tool Rest	H	Abrasive Belt
C	Grinding Wheel	I	Belt Tensioner
D	Eye Shield	J	Belt Guard & Access Panel
E	Work Light	K	On / Off Switch
F	Belt Tracking Adjustor		

ASSEMBLY INSTRUCTIONS

CONTENTS

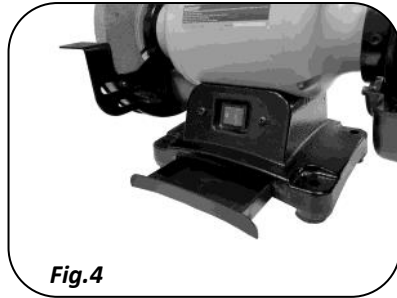
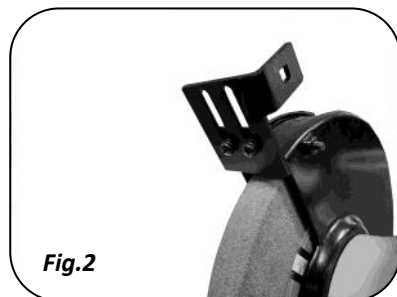
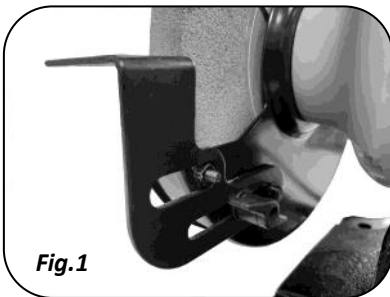


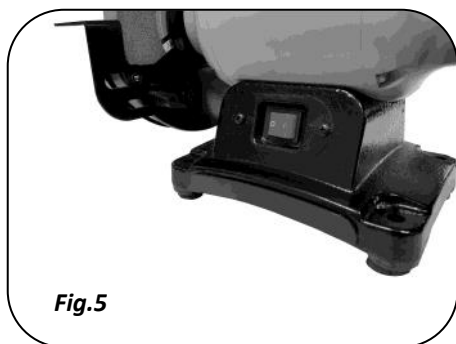
1	Eyeshield & Bracket	1	Eyeshield Support
1	Hand Nut	1	Washer 6mm
1	Bolt M6	1	Tool Rest
1	T Screw	1	Washer 8mm

ASSEMBLY INSTRUCTIONS *Cont...*

ASSEMBLY

- Remove Grinder/Belt Linisher, parts bags and hardware from the packaging. Be careful not to discard parts bags with packaging.
- Attach Tool Rest to lower edge of wheel guard opening with supplied T screw, washer and lock washer (*Fig 1*). Locate slot over pin and adjust so that rear edge of tool rest is 3mm (1/8") from wheel surface.
- Attach Eye Shield curved mounting arm with supplied screws, washer and lock washer (*Fig.2*).
- Assemble Eye Shield assembly to side-hole on the support bracket on the Wheel Guard with supplied long hex head bolt, washer and lock washer (*Fig.3*).
- Snap the coolant tray into the brackets located on the base. Fill with clean water. (*Figs. 4 & 5*).





Note: If any parts are missing or damaged, contact your distributor immediately for the missing parts to be replaced.

OPERATING INSTRUCTIONS



Note: Before each operation, turn the grinding wire by hand to ensure the wheel turns freely without catching the tool rest etc.



Danger / Caution: Always ensure the wheel retaining nut is fully tightened and the wheel is secure before each operation. Inspect the wheel for damage.



WARNING: Always ensure that the grinder is bolted down onto a secure surface prior to operation.

OPERATING INSTRUCTIONS CONT...

- The Grinder / Belt Linisher **MUST** be securely bolted or clamped to a solid work surface at a comfortable working height.
- Make sure the switch is in the **OFF** position before plugging in.
- Stand to one side and turn switch on then allow motor to reach operating speed. Check for vibration and shut-off immediately if any vibration is detected.
- **VERY IMPORTANT!** The wheel rotates in a Clockwise direction when viewed from the left side.
- When viewed from the front, the top segment of the wheel exposed by the shield is rotating toward the operator. **ALWAYS** grind objects pointing slightly downward and **NEVER** upward as they can be violently hurled toward you causing severe injury or death!
- Only apply a very light pressure against the wheel or the finishing belt when grinding. **NEVER** push an object hard against a grinding wheel or sanding belt.
- Too much pressure on the wheel or belt could overheat the motor, always maintain a steady moderate pressure on the workpiece.
- Always use the tool rests for support and stabilization.
- Only allow the object being ground to contact the wheel for several seconds at a time. Heat will quickly build-up in the wheel and workpiece which can cause damage and burns. Dip the workpiece into the coolant in the tray as required.
- **NEVER** grind against the side of the wheel as an imbalance condition or even cracking can occur.

MAINTENANCE

REPLACING THE GRINDING WHEEL



WARNING: Always ensure that the “blotter” discs (cardboard / paper between the flange and the grinding wheel) is fitted either side of the grinding wheel.



WARNING: Always ensure that the grinding wheel is of the correct size and rated for the speed of the grinder as stated in the specification.

- Make sure the grinder is switched **OFF** and **unplugged!**
- Loosen and remove the 3 screws holding the guard cover to access the grinding wheel. (Fig. 6)
- Holding the grinding wheel with one hand, turn the retaining nut clockwise. (Fig.7)
- Remove the nut, flanges & grinding wheel. (Fig.8)
- Replace grinding wheel and fit in reverse order of disassembly.



WARNING: Do not overtighten the grinding wheel retaining nut. Cracking of the grinding wheel could occur resulting in a dangerous situation

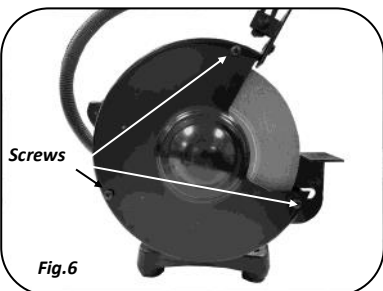


Fig.6

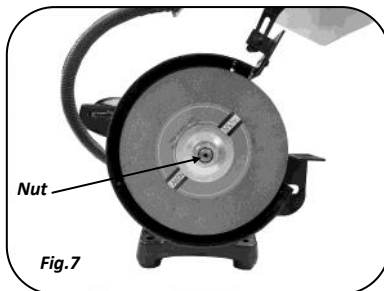
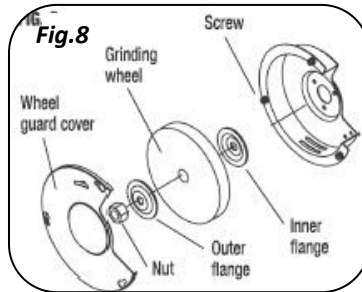


Fig.7



REPLACING THE LINISHING BELT

- Make sure the grinder is switched **OFF** and **unplugged!**
- Remove the belt cover retaining screw. (Fig.9)
- Remove the guard. (Fig.10)
- Move belt tensioning lever from closed to open. (Figs. 11 & 12).
- Remove belt.
- Replace belt and close tension lever and refit the guard.
- Should the belt not run centrally then the tracking can be adjusted using the tracking knob. (Fig.13)

REPLACING THE LINISHING BELT

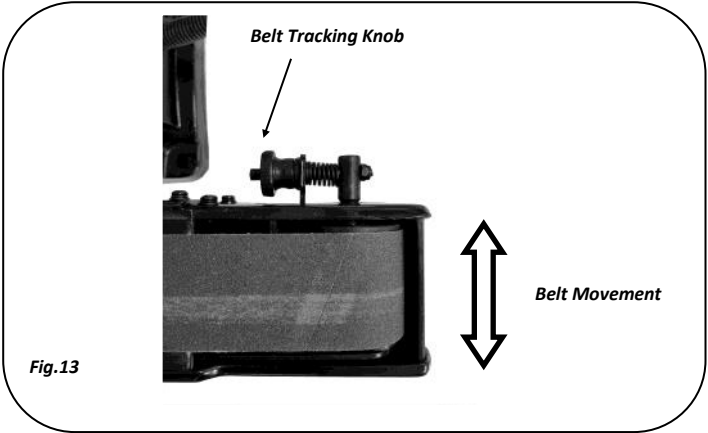
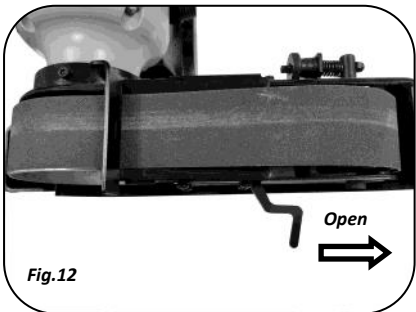
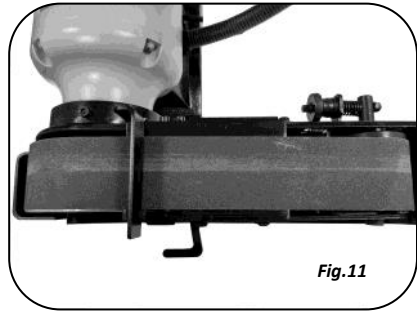
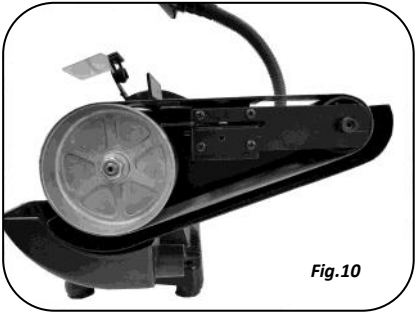
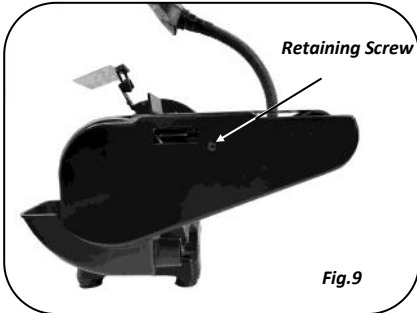
"Tracking" the belt means to centre the belt on its rollers so that it does not make contact with the sides of the belt cover.

- Make sure the grinder is **OFF** and **UNPLUGGED!**
- Rotate the grinding wheel by hand.
- As you rotate the grinding wheel, watch how the sanding belt rides on the upper roller. If the belt is tracking properly, the sanding belt should be centred between the sides of the belt cover.
- While spinning the grinding wheel by hand, turn the tracking control knob anti-clockwise to make the belt move to the left, or turn the tracking control knob clockwise to make the belt move to the right. (Fig.13)
- After the belt is centred, rotate the grinding wheel approximately ten times to ensure that the belt continues to track properly. Readjust if required.

MAINTENANCE Cont...



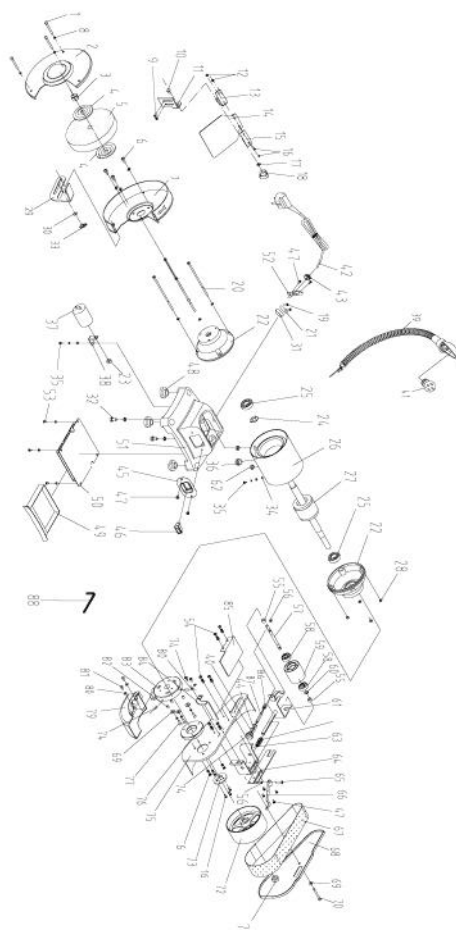
WARNING: Always ensure that the finishing belt is of the correct size and rated for the speed of the grinder as stated in the specification. Fit in the direction of the arrow on the inside of the belt.



TROUBLESHOOTING

<i>Cause</i>	<i>Remedy</i>
Motor will not start when switched on	• Check mains supply & fuse. • Check for binding; is wheel touching guard or tool rest.
Motor slows down whilst operating	• Too much pressure applied to wheel or finishing belt. • Check for binding; is wheel / belt touching guard or tool rest.
Burnt appearance on workpiece	• Too much pressure being applied. • Workpiece being held too long against wheel. Grind and rest at short intervals. • Dip workpiece into coolant tray.
Wheel and / or belt wearing rapidly	• Too much pressure being applied to belt or grinding wheel: Reduce pressure. • Wheel too soft for material being ground. Replace with a harder wheel grade. • Workpiece being held too long against wheel / belt. Grind and rest at short intervals.
Wheel / belt loading up with metal	• Too much pressure being applied to belt or grinding wheel: Reduce pressure. • Wheel too hard for material being ground. Replace with a softer wheel grade. • Workpiece being held too long against wheel / belt. Grind and rest at short intervals. • Too much heat in the workpiece. Dip into coolant.

EXPLODED DRAWING



PARTS LIST

Item	Description	Qty	Item	Description	Qty
1	Screw M5 x 42	3	45	Switch Base Plate	1
2	Left Guard Cover	1	46	Switch	1
3	Retaining Nut M16	1	47	Screw M5 x 8mm	8
4	Flange	2	48	Rubber Foot	4
5	Wheel 60G 200 x 20 x 15.88mm	1	49	Coolant Tray	1
6	Screw M5 x 10	6	50	Base Plate	1
7	Left Inner Guard Cover	1	51	Base	1
8	Spring Washer	3	52	Base Plate Clamp	1
9	Screw M5 x 10mm	2	53	Screw M4 x 6mm	4
10	Screw M5 x 18mm	1	54	Screw M5 x 10mm	4
11	Eyeshield Support	1	55	Sheath	2
12	Nut M4	2	56	Nut M5	1
13	Eyeshield Support	1	57	Driven Shaft	1
14	Eyeshield	1	58	Bearing	2
15	Eyeshield Press Plate	1	59	Driven Roller	1
16	Screw M4 x 16mm	2	60	Retaining Ring	1
17	Washer	1	61	Linishing Bracket	1
18	Lock Nut M6	1	62	Compression Ring	1
19	Screw M4 x 16mm	2	63	Support Plate	1
20	Screw M5 x 148mm	4	64	Limit Plate	1
21	Press Plate	1	65	Bolt M5 x 20mm	1
22	End Cover	2	66	Bracket Lever	1
23	Nut M8	1	67	Belt 710mmx 50mm 80G	1
24	Washer	1	68	Right Guard Cover	1
25	Bearing	2	69	Washer	3
26	Stator	1	70	Screw M5 x 25mm	1
27	Rotor	1	71	Nut M12	1
28	Nut M5	4	72	Driving Wheel	1
29	Tool Rest	1	73	Press Plate	1

PARTS LIST Cont...

Item	Description	Qty	Item	Description	Qty
30	Washer	1	74	Nut M8	1
31	Plate	1	75	Base Cover Plate	1
32	Bolt M8 x 22mm	2	76	Turntable	1
33	Locking Handle	1	77	Screw M5 x 16mm	3
34	Star Locking Washer	1	78	Screw M5 x 12mm	4
35	Screw M4 x 8mm	2	79	Dust Hood	1
36	Sheath	1	80	Washer	2
37	Capacitor	1	81	Bolt M5 x 10mm	2
38	Capacitor Bracket	1	82	Screw M6 x 6mm	3
39	Light Flexi-Tube	1	83	Fixed Disc	1
40	Press Plate	1	84	Table Baffle	1
41	230v LED Bulb	1	85	Work Table	1
42	Plug	1	86	Adjusting Spring	1
43	Lead Clasp	1	87	Adjusting Screw	1
44	Rubber Pad	1	88	Wrench	1

UK - DECLARATION OF CONFORMITY

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed Loughborough
Leicestershire
LE12 9NH
England

As the manufacturer within England, Scotland and Wales, we declare that the
SIP 8" x 2" Bench Grinder / Belt Linisher Item No.01459

Conforms to the requirements of the following regulation(s), as indicated:

Electromagnetic Compatibility Regulations 2016
Supply of Machinery 2008
The Restriction of the Use of Certain Hazardous Substances in
Electrical & Electronic Equipment Regulations 2012

And the following harmonised standard(s):

BS EN IEC 55014-1:2021	BS EN 62321-2:2014
BS EN IEC 55014-2:2021	BS EN 62321-1-3-1:2014;
BS EN IEC 61000-3-2:2019 +A1:2021	BS EN 62312-4:2014
BS EN 61000-3-3:2013+A1:2019+A2:2021	BS EN 62321-5:2014;
BS EN 62841-1:2015+A11:2022 ;	BS EN 62321-6:2015
BS EN 62841-3-4:2016+A11:2017+A12:2020+A1:2020	BS EN 62321-7-1:2015;
BS EN ISO 12100:2010	BS EN 62321-7-2:2017
BS EN 62321-1:2013;	BS EN 62321-8:2017



Signed.

Mr. Paul Ippaso
Managing Director
SIP (Industrial Products) Ltd
Date: 12 July 2023

**UK
CA**

EU - DECLARATION OF CONFORMITY

We

SIP Machinery Europe Ltd
Quayside Business Park
Dundalk
County Louth

As the manufacturer within England, Scotland and Wales, we declare that the

SIP 8" x 2" Bench Grinder / Belt Linisher Item No.01459

Conforms to the requirements of the following directive(s), as indicated:

EMC 2014/30/EU
Machinery Directive 2006/42/EC
RoHS 2011/65/EU & 2015/863/EU

And the following harmonised standard(s):

EN IEC 55014-1:2021	EN 62321-2:2014
EN IEC 55014-2:2021	EN 62321-1-3-1:2014;
EN IEC 61000-3-2:2019 +A1:2021	EN 62312-4:2014
EN 61000-3-3:2013+A1:2019+A2:2021	EN 62321-5:2014;
EN 62841-1:2015+A11:2022 ;	EN 62321-6:2015
EN62841-3-4:2016+A11:2017+A12:2020+A1:2020	EN 62321-7-1:2015;
EN ISO 12100:2010	EN 62321-7-2:2017
EN 62321-1:2013;	EN 62321-8:2017



Signed.
Mr. Paul Ippaso
Managing Director
SIP (Machinery Europe) Ltd
Date: 12July 2023



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.

Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use a recognised recycling agent. This will allow the recycling of raw materials and help protect the environment.



FOR HELP OR ADVICE ON THIS
PRODUCT PLEASE CONTACT
YOUR DISTRIBUTOR, OR SIP
DIRECTLY ON:

TEL: 01509 500400

EMAIL:

sales@sip-group.com

or

customerservice@sip-group.com

www.sip-group.com