charnwood PRO SERIES

Woodworking machinery at its best!

# 6” X 90” BELT SANDER
# OWNERS MANUAL
# MODEL: BS690


CE
UK
CA

**Charnwood Machinery, Cedar Court, Walker Road, Hilltop Industrial Estate, Bardon Hill, Leicestershire, LE67 1TU**

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**email: sales@charnwood.net website: www.charnwood.net**

# GENERAL SAFETY RULES

**WARNING:** Do not attempt to operate the machine until you have read thoroughly and understood completely all instructions, rules, etc. contained in this manual. Failure to comply may result in accidents involving fire, electric shock, or serious personal injury. Keep this owner's manual and review frequently for continuous safe operation.

1. Know your machine. For your own safety, read the owner's manual carefully. Learn its application and limitations, as well as specific potential hazards pertinent to this machine.
2. Make sure all tools are properly earthed.
3. Keep guards in place and in working order. If a guard must be removed for maintenance or cleaning, make sure it is properly replaced before using the machine again.
4. Remove adjusting keys and spanners. Form a habit of checking to see that all keys and adjusting spanners are removed from the machine before switched it on.
5. Keep your work area clean. Cluttered areas and workbenches increase the chance of an accident.'
6. Do not use in dangerous environments. Do not use power tools in damp or wet locations, or expose them to rain. Keep work areas well illuminated.
7. Keep children away. All visitors should be kept a safe distance from the work area.
8. Make workshop childproof. Use padlocks, master switches and remove starter keys.
9. Do not force the machine. It will do the job better and be safer at the rate for which it is designed.
10. Use the right tools. Do not force the machine or attachments to do a job for which they are not designed. Contact the manufacturer or distributor if there is any question about the machine's suitability for a particular task.
11. Wear proper apparel. Avoid loose clothing, gloves, ties, bracelets, and jewellery which could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
12. Always use safety glasses. Normal spectacles only have impact resistant lenses. They are not safety glasses.
13. Do not over-reach. Keep proper footing and balance at all times.
14. Maintain the machine in good condition. Keep the machine clean for best and safest performance. Follow instructions for lubrication and changing accessories.
15. Disconnect the machine from power source before servicing and when changing the blade.
16. Never leave the machine running unattended. Turn the power off. Do not leave the machine until it comes to a complete stop.
17. Do not use any power tools while under the effects of drugs, alcohol or medication.
18. Always wear a face or dust mask if operation creates a lot of dust and/or chips. Always operate the tool in a well ventilated area and provide for proper dust removal. Use a suitable dust extractor.

Risk of Injury!
Never reach into
a rotating drum

Wear Eye
Protection

Wear Ear
Protection

# Rating Description

**Trade:** Suitable for daily use by professional woodworkers.

Continuously rated, high power and a heavy duty construction. Typically used by several different operators in a small or medium sized business. Will be used up to the machines maximum limit with some long work periods. **Expected maximum use of 1000 hours annually**.

**Please Note**: Using a product in excess of its rating will void the manufacturer's free warranty.

# Charnwood BS690 Specification

| | |
|---|---|
| Abrasive Belt Size | 150mm x 2260mm |
| Belt Speed | 960 m/min |
| Motor (Induction) | 2200w (3hp) 240v |
| Recommended Breaker Size (MCB) | 16 Amps (Type C) |
| Table Size | 750mm x 250mm |
| Table Vertical Travel | 80mm |
| Table Tilt | 0 – 90 degrees |
| Dust Port Diameter | 100mm |
| Dust Collection Minimum Requirement | 1000m3/hour (50 Litres per second) |
| Assembled Dimensions (WxDxH) | 1325 x 570 x 1235mm |
| Shipping Dimensions (WxDxH) | 1400 x 650 x 620mm |
| Weight | 125kg |
| Sound Level | 81 dB(A) |
| Rating | Trade |
| Product Guarantee | 5 Year |

# Unpacking

**Open The Crate**

This product is packed into 1 wooden crate.

To open the wooden crate:

Cut the vertical straps

Use a pry bar to release the nails around the base

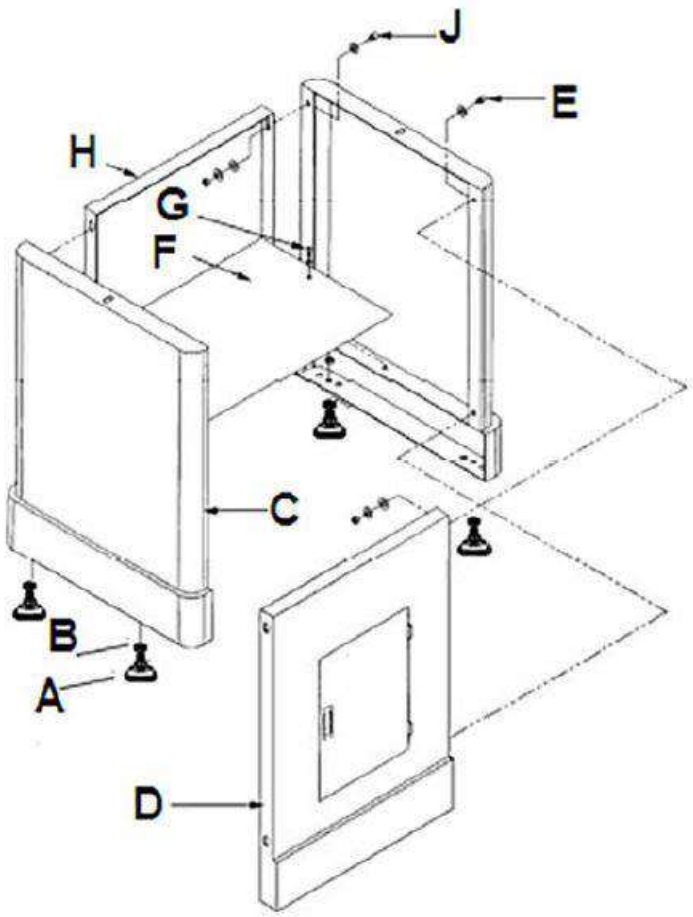
Lift off the complete lid.

Remove all contents from the shipping cartons.

Clean all rust protected surfaces

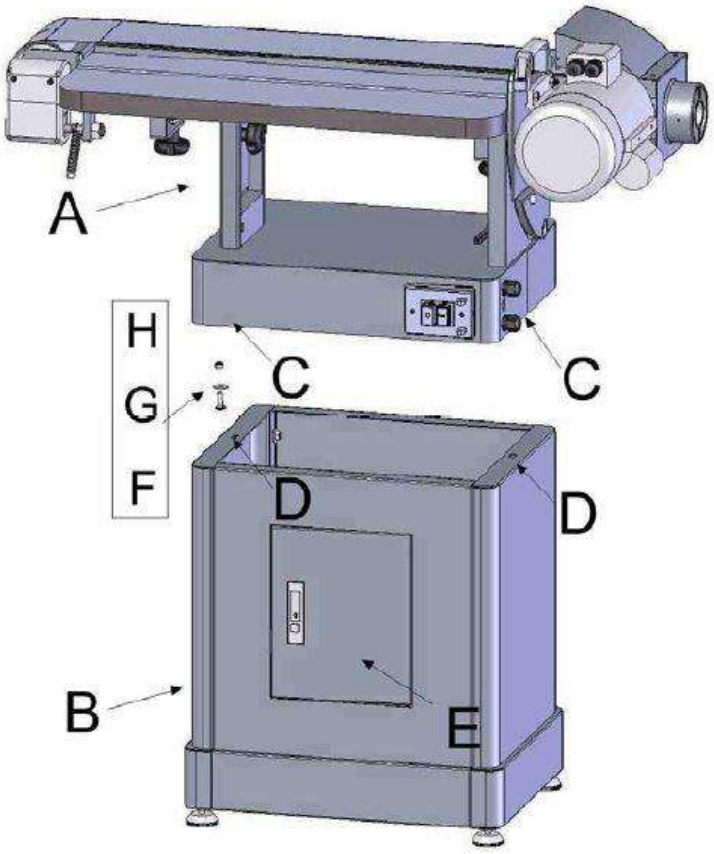
Do not dispose of any of the packaging until the machine has been completely assembled and tested. In the unlikely event that the product needs to be returned, the original packaging will be required.

# Assembly




**Assemble The Stand**

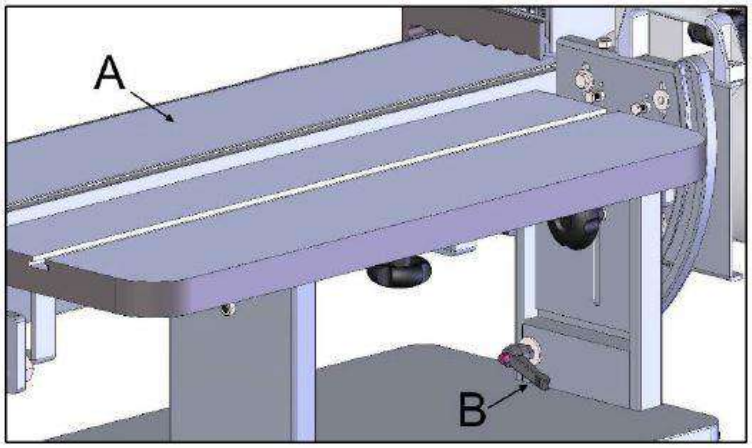
1. Attach the four rubber pads (A) to the bottoms of the side panels (C) with four each hex nuts (B). The hardware can be found in the bag with the rubber pads.
2. Attach the side panels (C) to the front panel (D) with four M8 x 16mm hex cap screws, eight M8 flat washers, four M8 lock washers, and four M8 hex nuts (E). Hand tighten the hardware at this point. Note: Assemble the stand upside down to make sure that the tops of the panels are flush.
3. Mount the shelf (F) to the inside of the stand with two M5x10 pan head screws, two M5 flat washers and two M5 lock washers (G).
6. Finish the stand assembly by attaching the rear panel (H) to the side panels (C) with four M8 x 16mm hex cap screws, eight M8 flat washers, four M8 lock washers, and four M8 hex nuts (J).
7. Make sure the stand is sitting evenly on a level surface before tightening hardware.

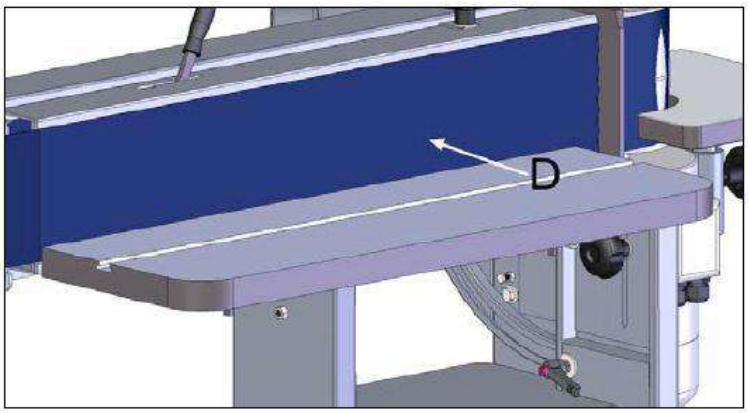



**Install the Table and Motor Unit to the Stand**


The Table and Motor Unit is heavy!
Use great care and adequate resources when lifting the unit up onto the stand!
Failure to comply may cause serious injury and/or damage to the sander and/or property!

1. With the aid of another person, carefully lift the table and motor unit (A) out of the shipping box, and up onto the stand (B).
2. Line up threaded holes in the base (C) with the holes in the stand (D).
3. Open the cabinet door (E) and through the opening attach main unit to stand with two M8 x 32mm hex cap screws (F), two M8 lock washers (G) and two M8 flat washers
(H). Tighten with a 13mm wrench.

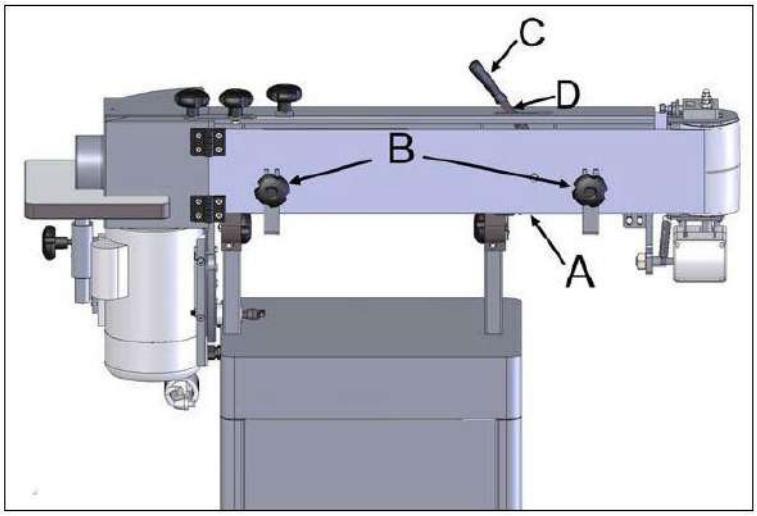



**Tilt the Sanding Belt to the Vertical Position**

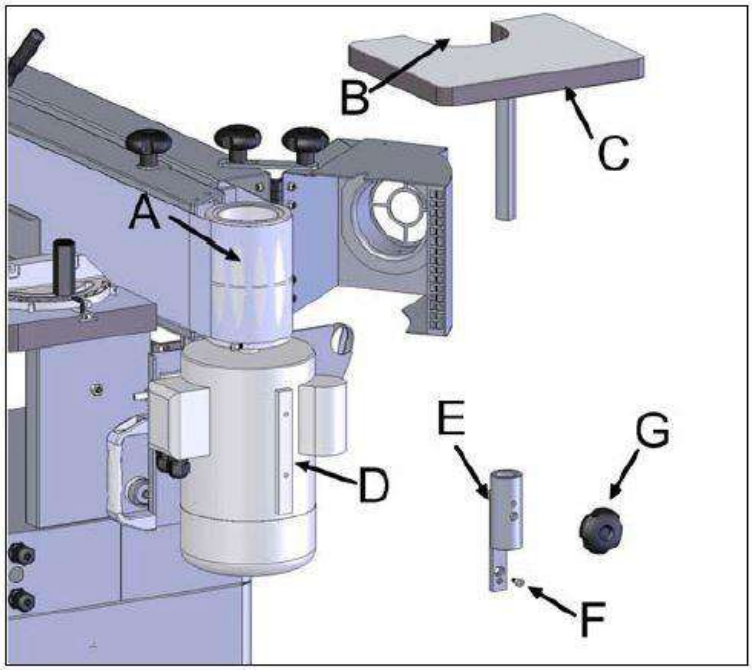
4. The sanding belt (A) is presently in the horizontal position. Pull lock handle (B) forward to unlock the platen assembly.
5. Tilt sanding belt to the vertical position ,which will look like D; then push the lock handle (B) to lock the platen assembly in place.

**Note: Do not turn the lock handle. Turning or rotating the lock handle will change the tension of the locking assembly. This may cause the locking assembly not to work, making it necessary for adjustment before using the machine.**



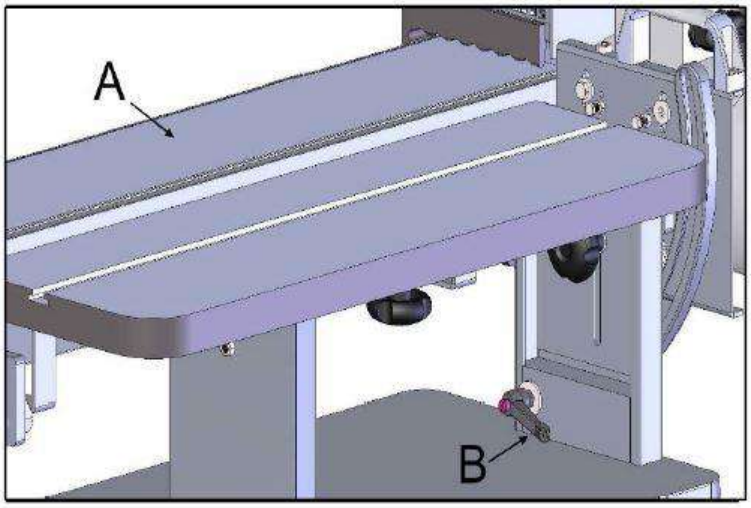

**Sanding Belt Installation**

1. From the rear of the sander, remove the belt guard (A) by unscrewing two lock knobs (B).
Take out the sanding belt and removable fence from behind the belt guard.
2. Remove the tension from the mechanism by moving the handle (C) to the Loose position.
3. Place the belt on both rollers so that the edge of the belt is even with the edge of the rollers.
**Note: Make sure that direction arrow on belt matches the direction indicator on the top of the platten.**
4. Tighten the belt by moving the tension handle (C) to the Tight position. Rotate the belt by hand in the direction indicated by the arrow on top of the platten. If the belt tracking needs adjustment, see Belt Tracking Adjustment.



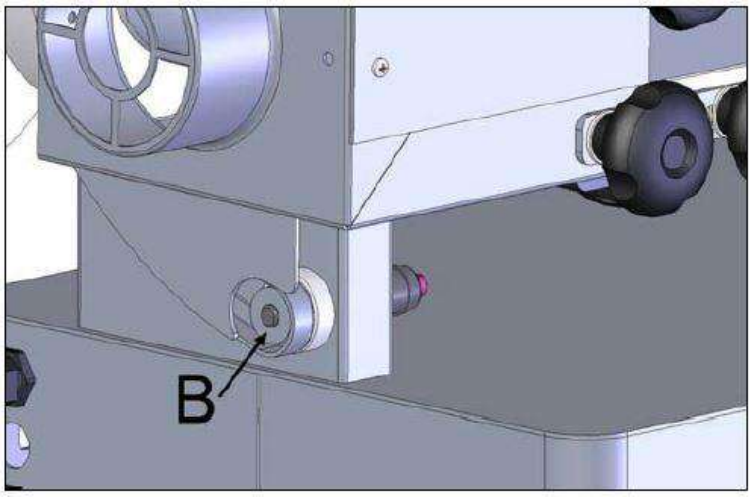

**Attach The Extension Table**

1. Attach the bracket (E) for the extension table to the side of the motor housing (D) and secure with two socket head cap screws (F).
2. Slide the shaft of the extension table (C) into the bracket (E), positioning the table so the opening (B) wraps around the drive drum (A).
3. Insert lock knob (G) into the threaded hole on the side of the bracket (E) visible from the rear of the sander.



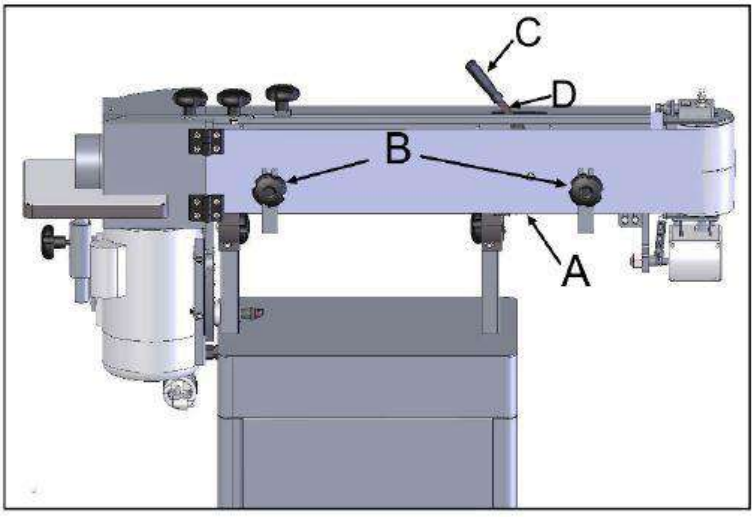

**Sanding Belt Angle Adjustment**

1. Disconnect the machine from the power source.
2. Pull the lock handle (B) forward (unlock) to release tension.
Move the sanding platen (A) to the desired position. Use a combination square between the table and the sanding platen to get precise angles.
3. Hold the platen (A) while locking the handle.



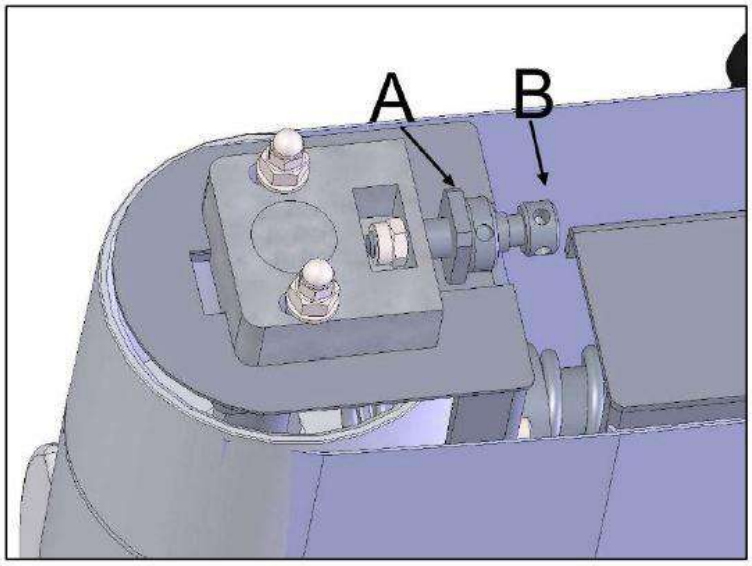

**Platen Lock Tension Adjustment**

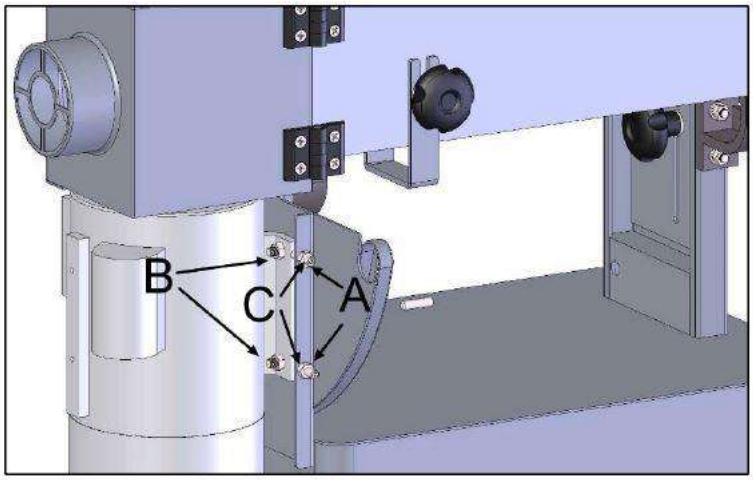
1. Disconnect the machine from the power source.
2. Loosen (unlock) the handle (B in above) and place the platen in the horizontal position as shown in (A in above). Do not lock.
3. Tension eccentric block by tightening the nut (B) with a 14mm wrench. Turn the nut in by ¼ turn increments and test locking handle for proper tension.
The lock handle is properly tensioned when it requires positive force to move the eccentric block (attached to the locking handle) from one side to the other. The platen and motor assembly must stay in a locked position without sliding once the handle has been moved to the locked position. Re-adjust as necessary.




**Changing the Sanding Belt**

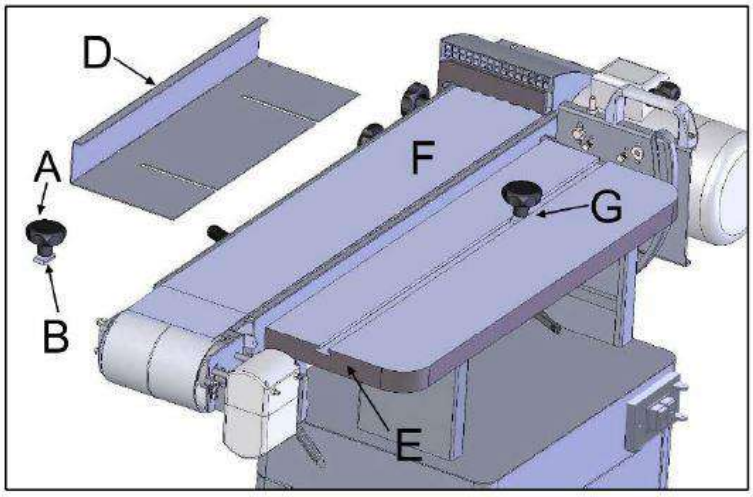
1. Disconnect the machine from the power source.
2. Lock the sanding platen in the vertical position (see the Sanding Belt Angle Adjustment section).
3. Release tension on the belt by loosening the handle (C).
4. Loosen or remove the lock knobs (B) and remove the belt guard (A).

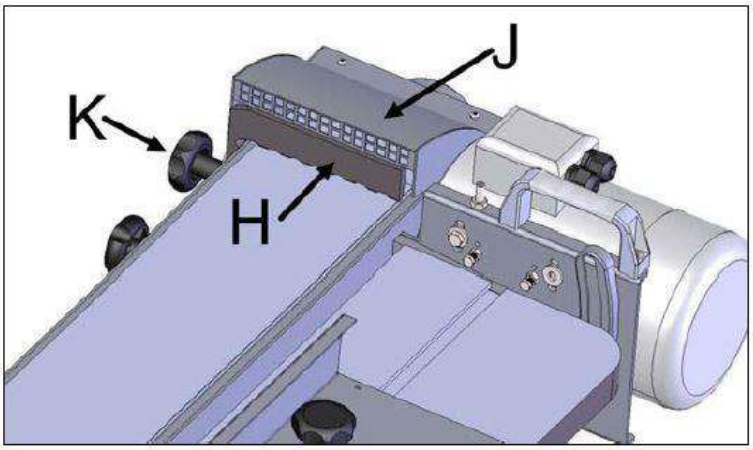
| | | |
|---|---|---|
| | | 5. Remove the old belt and install the new belt matching the direction of the arrows on the belt with the arrow label on the top of the platen.<br>6. Line up edge of belt with edge of rollers.<br>7. Place tension on the belt by moving the tension arm handle (C) to the Tight position.<br>8. Reinstall the belt guard (A) and tighten the lock handles (B)<br>**Note: Belts stretch with wear. When a belt is replaced, you may have to adjust tracking.** |
|  | | **Belt Tracking Adjustment**<br><br>**The Belt Tracking Adjustment is a fine adjustment procedure. The Motor Mount Tracking Adjustment (following section) is a course adjustment.**<br><br>To adjust the belt tracking:<br>1. Disconnect the machine from the power source.<br>2. Push the belt by hand from left to right (the direction indicated top of the platen) and observe the belt's position on the rollers. The oscillating movement of the belt is by design.<br>Observe the belt's range of movement from its highest to lowest position. The edges of the belt should not have a tendency to move above or below the edges of the rollers.<br>If adjustment is still necessary:<br>3. Insert the round shaft of the belt tracking tool (provided) into the micro adjust lock nut (A) and turn away from you to loosen.<br>4. Turn the micro adjusting screw (B) in 1/4 turn increments until the belt tracks evenly on the rollers when rotated by hand. |

| | | |
|---|---|---|
| | | Tip: Moving the belt tracking tool away from you raises the belt on the drum and towards you lowers the belt on the drum.<br>5. Tighten the micro adjusting nut (A).<br>6. Connect the machine to power.<br>7. Turn on the power to the machine and observe the belt's up and down range of movement.<br>Adjustment is correct when the edges of the belt do not move above or below the edges of the rollers.<br>8. When adjustment is complete, tighten the micro adjust lock nut (A).<br>If the tracking cannot be corrected go to the Motor Mount Tracking Adjustment section. |
|  | | **Motor Mount Tracking Adjustment**<br><br>This machine comes with tracking adjustment bolts (A) on the motor plate. These are set at the factory and should not require any further adjustment. If, however, you are not able to track the belt with the Belt Tracking Adjustment described in the previous section, the motor mount bolts will have to be adjusted.<br>**Note: The Motor Mount Tracking Adjustment is a course adjustment. Use the Belt Tracking Adjustment first for fine adjustment. If it cannot be adjusted, then use the procedure described below.**<br>To adjust:<br>1. Disconnect the machine from the power source.<br>2. Slightly loosen the four motor mount nuts (B) just enough so the tracking screws (A) can be turned to make an adjustment.<br>3. Loosen the two locking hex nuts (C) that secure the tracking screws (A).<br>4. Turn one screw (A) a 1/4 turn and rotate the sanding belt by hand to observe which direction the adjustment |

| | | |
|---|---|---|
| | | is causing the belt to move. If it is traveling in the direction needed to correctly track the<br>belt go to step 6.<br>5. If the belt starts to travel in the wrong direction, back off a quarter turn and tighten the other screw a quarter turn. This should start the belt moving in the proper direction.<br>6. Tighten both locking nuts (C) and motor mount nuts (B). Then return to the Belt Tracking Adjustment section and again attempt to fine tune the tracking. |
|  | | **Table Adjustment**<br><br>1. Loosen the two lock knobs.<br>2. Raise or lower the work table to desired level using the handwheel.<br>3. Tighten the two lock knobs.<br><br>**Do not position the table below the sanding belt! Keep an overlap of at least 2mm between the table and the sanding belt to avoid material and/or fingers getting caught!** |

# Using The Belt Sander

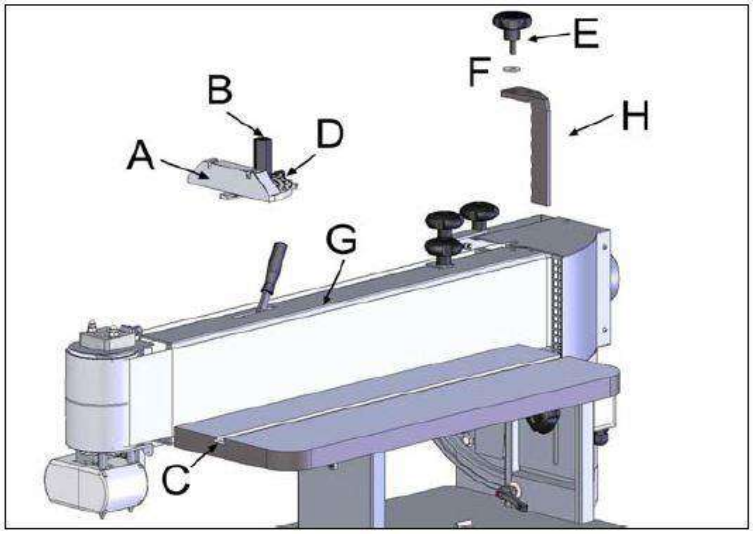


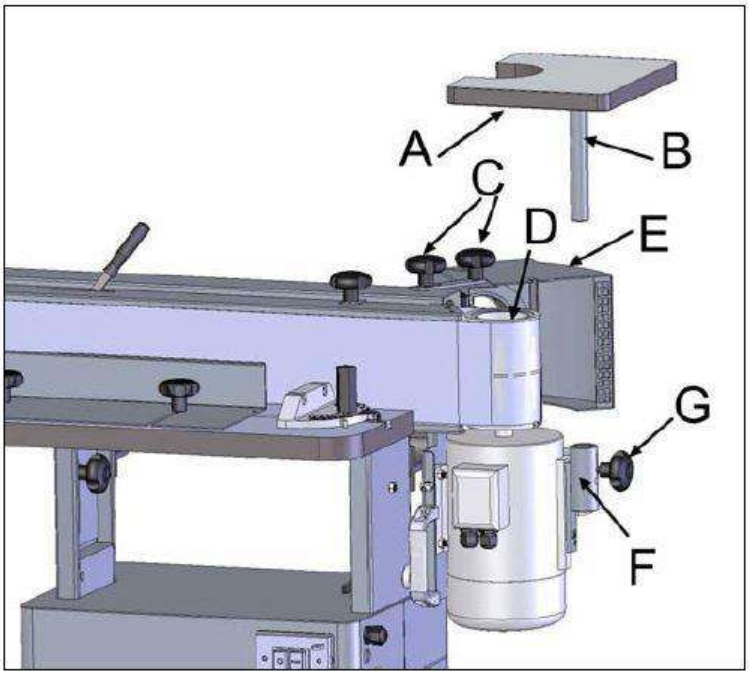

***Removing the belt guard exposes more of the sanding belt! Replace the belt guards immediately after completing any sanding that requires its removal! Failure to comply may cause serious injury***

**Horizontal Sanding**

For horizontal sanding, the platen is locked in the horizontal position as shown (F) and the removable fence (D) is secured to the table (E) as follows.
Place M8 flat washers (not shown) and guide blocks (B) on two lock knobs (A)
2. Insert the guide blocks (B) into the mitre slot (C) and position the lock knobs (G) on the table (E) as shown.
3. Place the removable fence (D) on the table and secure by tightening the lock knobs (G).
The backstop (H) can also be used by swivelling the drum guard & dust port (J) out of the way and placing the backstop pin in the positioning hole and securing in place with the lock knob (K) and M8 flat washer.




**Vertical Sanding**
For vertical sanding, the platen (G) is locked in the vertical position as shown and the backstop (H) and/or the mitre gauge (B) may be used.
***Mitre Gauge***
1. Slide the guide bar (D) of the mitre gauge (A) into the mitre slot (C) on the table.
2. Set the mitre angle; then secure the mitre by tightening the lock handle (B).
***Backstop***
Place the backstop pin in the positioning hole and secure in place with the lock knob (E) and M8 flat washer (F).




**Contour Sanding**

***Contour sanding*** **is done from the extension table mounted on the motor where the sanding belt wraps around the *drive drum* (D).**

To set up the sander for contour sanding:

1. Loosen the two lock knobs (C) that secure the drum guard & dust port (E).
2. Swing the end guard (E) back, bringing the drive drum (D) into view.
3. Tighten the lock knobs (C).
4. Mount the extension table (A) to the sander by inserting the post (B) into the bracket (F).
5. Set the table to the desired height, then secure into position by tightening the lock knob (G).

**Important: When the *extension table* (B) is not in use, the *drum guard & dust port* (E) should always be in the closed position so the *drive drum* (D) is not in view.**

# Troubleshooting

Before carrying out any fault service or maintenance work always:

1. Turn the machine OFF
2. Unplug the power cable

| Problem | Cause | Remedy |
|---|---|---|
| **Sander will not start** | 1. Sander unplugged from wall or motor<br>2. Fuse blown or circuit breaker tripped<br>3. Cord damaged | 1. Check all plug connections<br>2. Replace fuse or reset circuit breaker<br>3. Replace cord |
| **Sanding belt does not come up to speed** | 1. Extension cord too light or too long<br>2. Motor not wired for proper voltage<br>3. Low current | 1. Replace with adequate size and length<br>cord<br>2. Refer to motor junction cover for proper wiring<br>3. Contact a qualified electrician |
| **Machine vibrates excessively** | 1. Stand on uneven floor<br>2. Motor mounts are loose<br>3. Tension spring is worn or broken | 1. Adjust stand so that it rests evenly on the floor<br>2. Tighten motor mount bolts<br>3. Replace spring |
| **Abrasive belt keeps tearing** | 1. Belt is running in the wrong direction | 1. Arrow on the sanding belt and machine should be pointing in the same direction. |
| **Sanded edge not square** | 1. Table not square to sanding platen | 1. Use a square to adjust table to sanding platen |
| **Sanding marks on wood** | 1. Wrong grit sanding belt<br>2. Feed pressure too great<br>3. Sanding against the grain | 1. Use coarser grit for stock removal and fine grit for finish sanding.<br>2. Never force work into sanding platen<br>3. Sand with the grain |

# Declaration of Conformity for CE Marking

Charnwood Declare that Woodworking Belt Sander, Model BS690

| | |
|---|---|
| Conforms with the following EU Directives: | Machinery Directive 2006/42/EC |
| | Electromagnetic Compatibility Directive 2014/30/EU |
| Conforms with the following UK Regulations: | Supply of Machinery (Safety) Regulations 2008 |
| | Electromagnetic Compatibility Regulations 2016 |

And further conforms to the machinery example for which the EC type examination Certificate No. AM 50607417 & AE 50616092 have been issued by TUV Rheinland LGA Products GmbH, Tillystrasse 2, 90431, Nurnberg, Germany.

I hereby declare that equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The machinery complies with all essential requirements of the directives and regulations.

Signed: Dated: 22/07/2025 Location: Leicestershire

Richard Cook, Director

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.

Only for EU countries

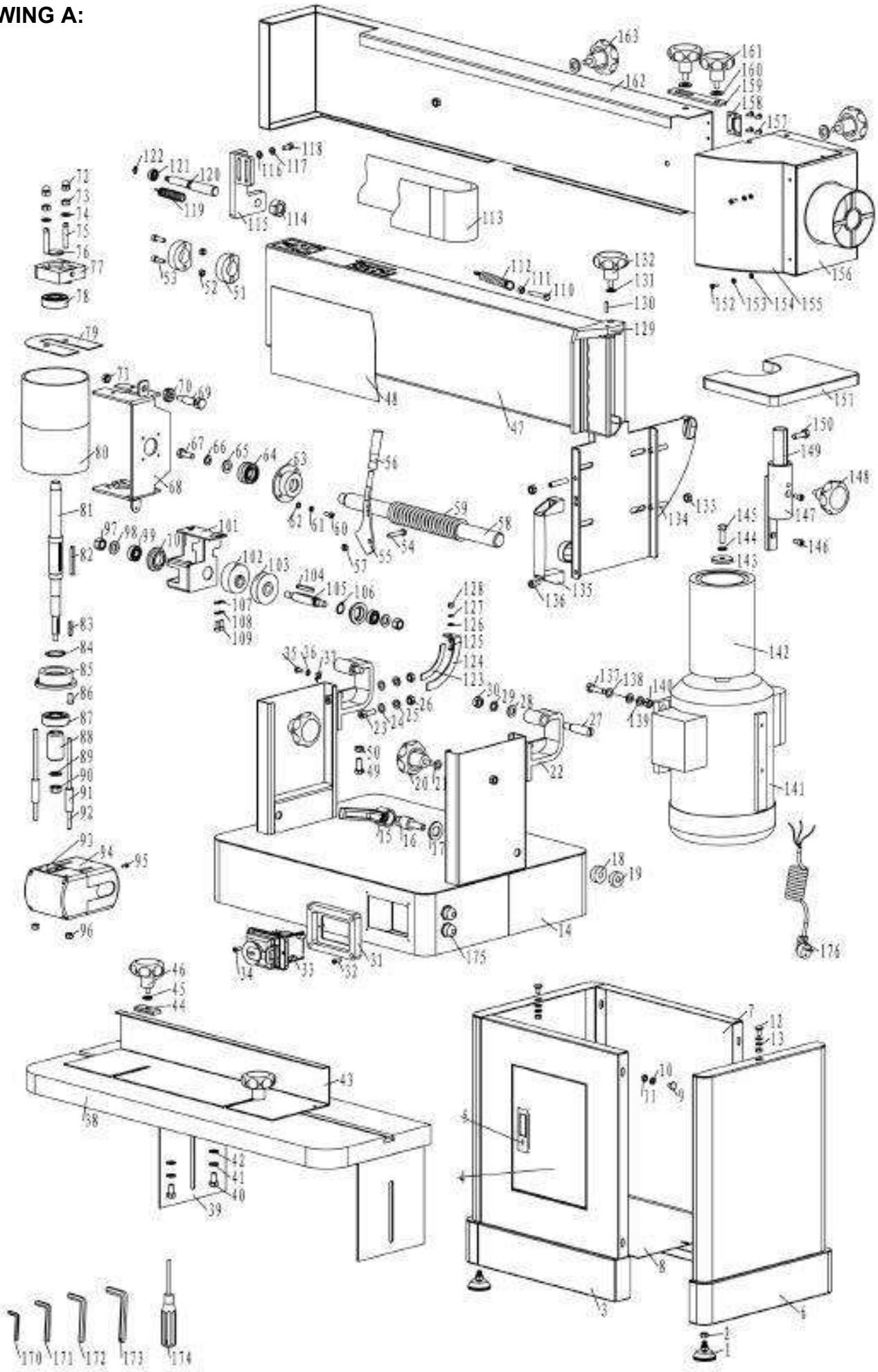
Do not dispose of electric tools together with household waste material!

In observance of European Directive 2002/96/EC on waste electrical and electronic equipment (EEE) and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Your local refuse amenity will have a separate collection area for EEE goods

# Charnwood BS690 Parts Diagrams

**DRAWING A:**

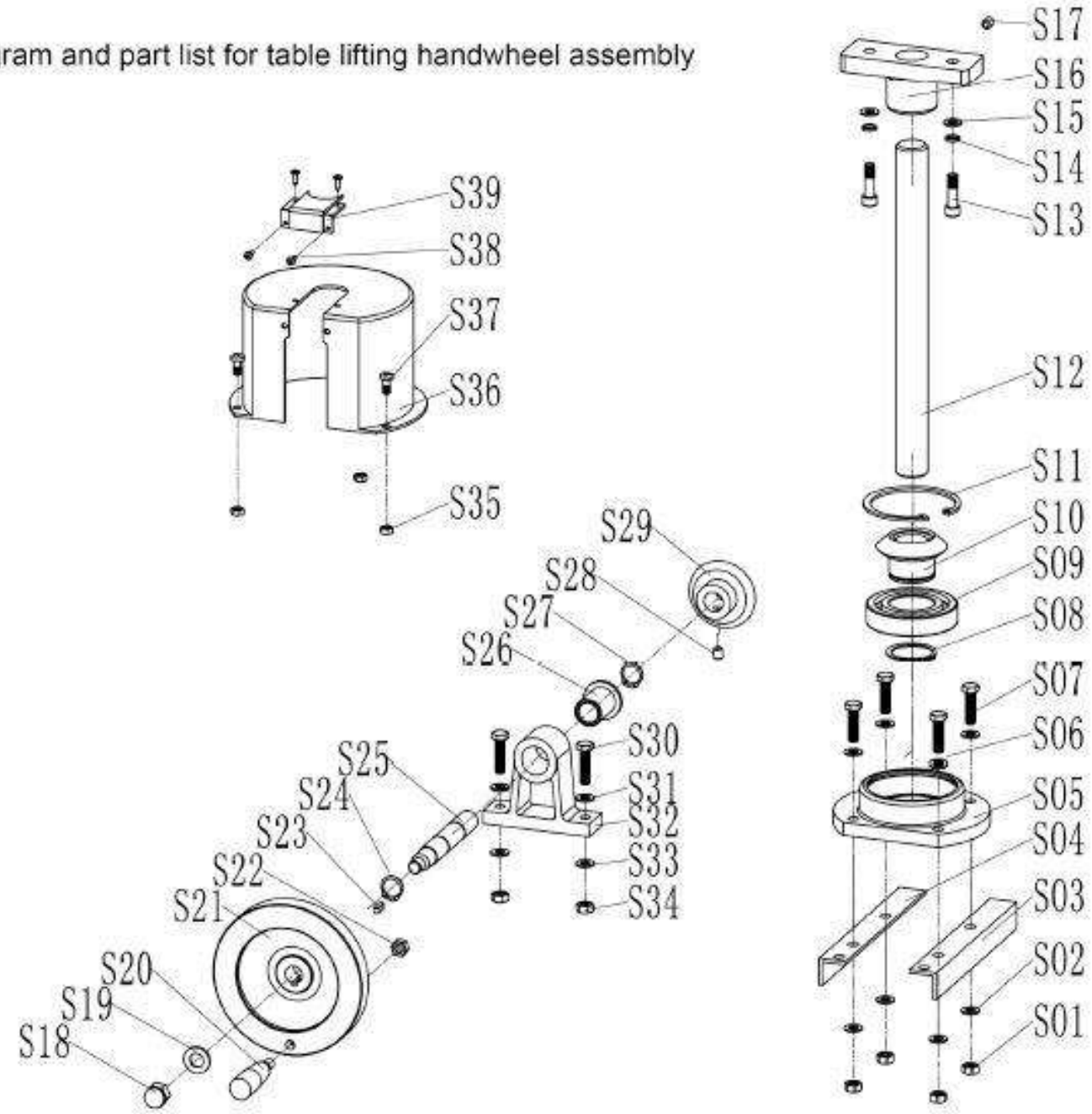


| Part No. | DESCRIPTION | QTY | Part No. | DESCRIPTION | QTY |
|---|---|---|---|---|---|
| A001 | PAD | 4 | A043 | FENCE | 1 |
| A002 | NUT | 8 | A044 | GUIDE BLOCK | 2 |
| A003 | FRONT PANEL(W/DOOR) | 1 | A045 | FLAT WASHER | 2 |
| A004 | DOOR | 1 | A046 | KNOB | 2 |
| A005 | LATCH ASSEMBLY | 1 | A047 | PLATEN | 1 |
| A006 | SIDE PANEL | 2 | A048 | GRAPHITE PAD | 1 |
| A007 | REAR PANEL | 1 | A049 | SOCKET HEAD CAP SCREW | 1 |
| A008 | SHELF | 1 | A050 | NUT | 1 |
| A009 | HEX CAP SCREW | 10 | A051 | RING | 2 |
| A010 | FLAT WASHER | 12 | A052 | LOCK NUT | 4 |
| A011 | NUT | 12 | A053 | ROUND HEAD SCREW | 4 |
| A012 | HEX CAP SCREW | 2 | A054 | SOCKET HEAD CAP SCREW | 1 |
| A013 | LOCK WASHER | 2 | A055 | BELT TENSION ARM | 1 |
| A014 | BASE | 1 | A056 | TENSION ARM HANDLE | 1 |
| A015 | BIG KNOB | 1 | A057 | LOCK NUT | 1 |
| A016 | LOCK BLOCK | 1 | A058 | TENSION BAR | 1 |
| A017 | FLAT WASHER | 1 | A059 | SPRING | 1 |
| A018 | NYLON WASHER | 1 | A060 | ROUND HEAD SCREW | 4 |
| A019 | LOCK NUT | 1 | A061 | LOCK WASHER | 4 |
| A020 | KNOB | 2 | A062 | FLAT WASHER | 4 |
| A021 | FLAT WASHER | 2 | A063 | BEARING HOUSING | 1 |
| A022 | ANGLE PLATE | 2 | A064 | BALL BEARING | 2 |
| A023 | ROUND HEAD SCREW | 4 | A065 | FLAT WASHER | 1 |
| A024 | FLAT WASHER | 4 | A066 | FLAT WASHER | 1 |
| A025 | LOCK WASHER | 4 | A067 | SOCKET HEAD CAP SCREW | 1 |
| A026 | NUT | 4 | A068 | IDLE DRUM BRACKET | 1 |
| A027 | SCREW | 2 | A069 | TRACK ADJUSTINIG SCREW | 1 |
| A028 | FLAT WASHER | 2 | A070 | TRACK ADJUSTING NUT | 1 |
| A029 | LOCK WASHER | 2 | A071 | NYLON INSERT LOCK NUT | 1 |
| A030 | HEX NUT | 2 | A072 | SPECIAL NUT | 2 |
| A031 | SWITCH BOX | 1 | A073 | NUT | 2 |
| A032 | PAN HEAD SCREW | 4 | A074 | FLAT WASHER | 2 |
| A033 | EMERGENCY SWITCH | 1 | A075 | DOUBLE-SCREW BOLT | 2 |
| A034 | TAPPING SCREW | 2 | A076 | DISC PLATE | 1 |
| A035 | PAN HEAD SCREW | 1 | A077 | TRACK ADJUSTING BLOCK | 1 |
| A036 | EXTERNAL TOOTH LOCK WASHER | 1 | A078 | BALL BEARING | 1 |
| A037 | POINTER | 1 | A079 | GUARD | 1 |
| A038 | TABLE | 1 | A080 | IDLE DRUM | 1 |
| A039 | UP-DOWN TABLE MOUNT PLATE | 2 | A081 | DRIVE SHAFT | 1 |
| A040 | SOCKET HEAD CAP SCREW | 4 | A082 | KEY | 1 |
| A041 | FLAT WASHER | 4 | A083 | KEY | 1 |
| A042 | LOCK WASHER | 4 | A084 | RETAINING RING | 1 |

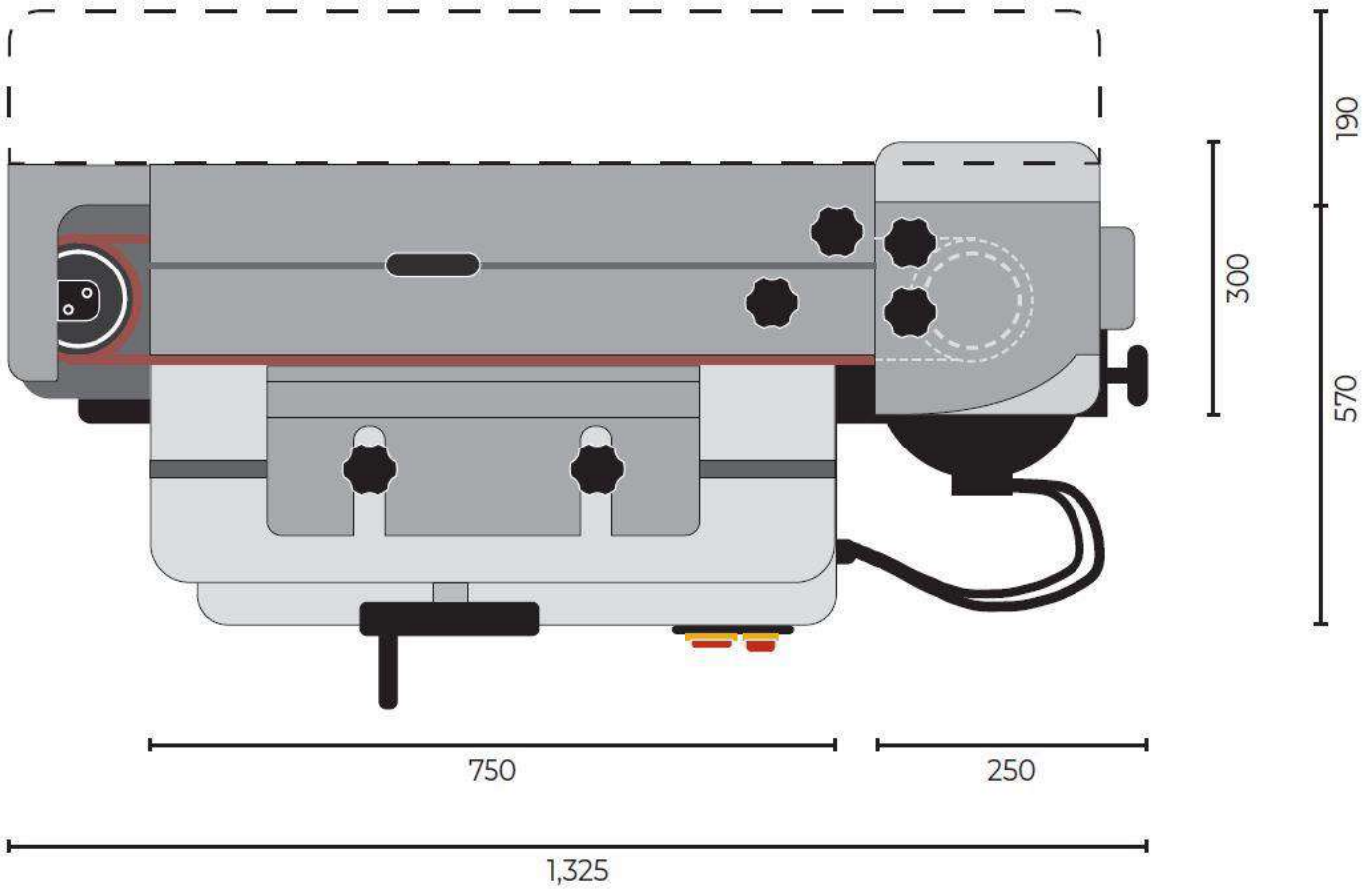
| | | | | | |
|---|---|---|---|---|---|
| A085 | DOWN BEARING HOUSING | 1 | A129 | BRACKET | 1 |
| A086 | COUNTERSUNK HEAD SCRE | 3 | A130 | PIN | 1 |
| A087 | BALL BEARING | 1 | A131 | FLAT WASHER | 1 |
| A088 | WORM | 1 | A132 | KNOB | 1 |
| A089 | FLAT WASHER | 1 | A133 | NUT | 3 |
| A090 | LOCK NUT | 1 | A134 | PAN HEAD SCREW | 3 |
| A091 | COLUMN | 2 | A135 | HANDLE | 1 |
| A092 | DOUBLE-HEAD LEAD SCREW | 2 | A136 | ROUND HEAD SCREW | 2 |
| A093 | DUST HOOD BOX | 1 | A137 | SOCKET HEAD CAP SCREW | 4 |
| A094 | DUST HOOD COVER | 1 | A138 | FLAT WASHER | 8 |
| A095 | SOCKET HEAD CAP SCREW | 4 | A139 | LOCK WASHER | 4 |
| A096 | LOCK NUT | 2 | A140 | NUT | 4 |
| A097 | LOCK NUT | 2 | A141 | MOTOR | 1 |
| A098 | FLAT WASHER | 2 | A142 | DRIVE DRUM | 1 |
| A099 | BALL BEARING | 2 | A143 | WASHER | 1 |
| A100 | BEARING HOUSING | 2 | A144 | LOCK WASHER | 1 |
| A101 | GEAR HOUSING | 1 | A145 | SOCKET HEAD CAP SCREW | 1 |
| A102 | CAM | 1 | A146 | ROUND HEAD SCREW | 2 |
| A103 | WORM GEAR | 1 | A147 | SUPPORTING SEAT | 1 |
| A104 | KEY | 1 | A148 | KNOB | 1 |
| A105 | WORM GEAR SHAFT | 1 | A149 | SUPPORTING ROD | 1 |
| A106 | RETAINING RING | 1 | A150 | SOCKET HEAD CAP SCREW | 1 |
| A107 | FLAT WASHER | 4 | A151 | EXTENSION TABLE | 1 |
| A108 | LOCK WASHER | 4 | A152 | PHILLIPS SCREW | 3 |
| A109 | ROUND HEAD SCREW | 4 | A153 | WASHER | 3 |
| A110 | SPRING BOLT | 1 | A154 | NUT | 3 |
| A111 | NUT | 18 | A155 | DUST PORT | 1 |
| A112 | SPRING | 1 | A156 | DRUM GUARD | 1 |
| A113 | SANDING BELT | 1 | A157 | CLINCH BOLT | 8 |
| A114 | NUT | 1 | A158 | HINGE BRACKET | 2 |
| A115 | BRACKET | 1 | A159 | CONNECTION PLATE | 1 |
| A116 | FLAT WASHER | 4 | A160 | FLAT WASHER | 4 |
| A117 | LOCK WASHER | 4 | A161 | KNOB | 2 |
| A118 | SOCKET HEAD CAP SCREW | 4 | A162 | SANDING BELT COVER | 1 |
| A119 | SPRING | 1 | A163 | KNOB | 2 |
| A120 | LEAD SCREW | 1 | A164 | MITRE GAUGE BODY | 1 |
| A121 | BALL BEARING | 1 | A170 | ALLEN KEY | 1 |
| A122 | RETAINING RING | 1 | A171 | ALLEN KEY | 1 |
| A123 | TILT ANGLE SCALE LABEL | 1 | A172 | ALLEN KEY | 1 |
| A124 | TILT SCALE | 1 | A173 | ALLEN KEY | 1 |
| A125 | PAN HEAD SCREW | 1 | A174 | SCREW DRIVER | 1 |
| A126 | FLAT WASHER | 2 | A175 | GROMMET | 3 |
| A127 | LOCK WASHER | 1 | A176 | PLUG | 1 |
| A128 | NUT | 1 | | | |

**DRAWING S :**

Diagram and part list for table lifting handwheel assembly



| Part No. | DESCRIPTION | QTY | Part No. | DESCRIPTION | QTY |
|---|---|---|---|---|---|
| S01 | M8 NUT | 4 | S21 | HAND WHEEL | 1 |
| S02 | M8 FLAT WASHER | 4 | S22 | M8 NUT | 1 |
| S03 | LEFT ANGLE IRON | 1 | S23 | FLAT KEY A5 X 16 | 1 |
| S04 | RIGHT ANDLE IRON | 1 | S24 | CIRCLIP | 1 |
| S05 | BEARING BLOCK | 1 | S25 | SHAFT | 1 |
| S06 | M8 FLAT WASHER | 4 | S26 | SHAFT BUSH | 1 |
| S07 | M8 X 30MM BOLT | 4 | S27 | CIRCLIP | 1 |
| S08 | CIRCLIP | 1 | S28 | M8 X 10MM HEX SCREW | 1 |
| S09 | BEARING | 1 | S29 | BEVEL GEAR | 1 |
| S10 | BEVEL GEAR | 1 | S30 | M8 X 30MM BOLT | 2 |
| S11 | CIRCLIP | 1 | S31 | M8 FLAT WASHER | 2 |
| S12 | SHAFT | 1 | S32 | SHAFT BRACKET | 1 |
| S13 | M8 X 30MM BOLT | 2 | S33 | M8 FLAT WASHER | 2 |
| S14 | M8 SPRING WASHER | 2 | S34 | M8 NUT | 2 |
| S15 | M8 FLAT WASHER | 2 | S35 | M6 NUT | 3 |
| S16 | LIFTING SEAT | 1 | S36 | PROTECTION GUARD | 1 |
| S17 | M8 X 10MM HEX SOCKET SCREW | 1 | S37 | M6 X 14 BOLT | 3 |
| S18 | M12 NUT | 1 | S38 | BOLT ST4 X 10 | 4 |
| S19 | M12 FLAT WASHER | 1 | S39 | SMALL COVER | 1 |
| S20 | HANDLE | 1 | | | |



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