

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

## 1. SAFETY INSTRUCTIONS

### 1.1. ELECTRICAL SAFETY

**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 Device (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. You may obtain a Residual Current Device by contacting your Sealey dealer. **You must** also read and understand the following instructions concerning electrical safety.

- 1.1.1. The **Electricity at Work Act 1989** requires that all portable electrical appliances, if used on business premises, are tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
- 1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**
- 1.1.3. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply. See 1.1.1. and 1.1.2. and use a Portable Appliance Tester.
- 1.1.4. Ensure that cables are always protected against short circuit and overload.
- 1.1.5. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose.
- 1.1.6. **Important:** Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating, fig. 1.
- 1.1.7. **DO NOT** pull or carry the appliance by the power cable.
- 1.1.8. **DO NOT** pull the plug from the socket by the cable.
- 1.1.9. **DO NOT** use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician.

Fit a new plug according to the following instructions (UK only):

**MG214/230V - fig. 1**

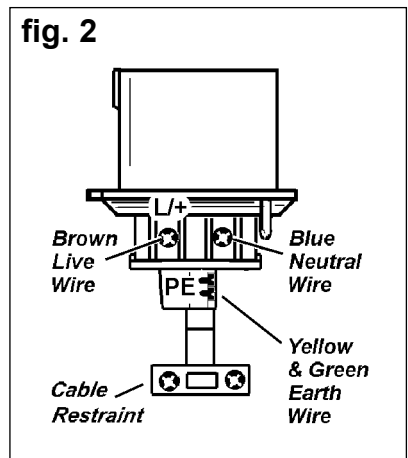
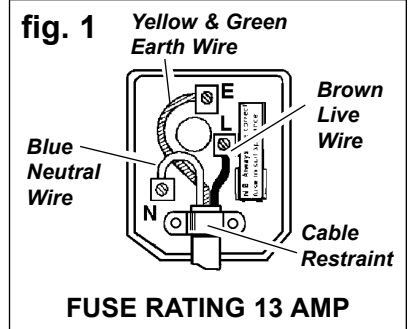
**MG214/110V - fig. 2**

- a) Connect the **GREEN/YELLOW** earth wire to the earth terminal 'E' or  .
- b) Connect the **BROWN** live wire to the live terminal 'L'.
- c) Connect the **BLUE** neutral wire to the neutral terminal 'N'.
- d) **After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.**

- 1.1.10. If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm<sup>2</sup>, but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm<sup>2</sup> section cable.

### 1.2. GENERAL SAFETY

- WARNING!** Disconnect the saw from the mains power, and ensure that the cutting disc is at a complete standstill before attempting to change accessories, service or perform any maintenance.
- ✓ Maintain the saw in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. *Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ✓ Locate the saw in a suitable work area. Ensure that the surface is flat and firm. Keep the area clean and tidy and free from unrelated materials, and ensure that there is adequate lighting.
- ✓ Keep the saw clean for best and safest performance and check moving parts alignment regularly.
- WARNING!** Before each use check that the cutting disc is secure and that it is not worn or damaged.
- NOTE:** Only persons qualified under the "Abrasive Wheels Regulations" holding a current grinding wheel certificate may change discs (wheels).
- ✓ Ensure that replacement discs are not damaged in any way - cracks, deformations or splinters etc. Also check the mounting flanges to ensure that they are not deformed, burred or chipped. Damaged flanges must not be used as they may cause uneven pressure on the disc which may cause the disc to break. **DO NOT** over tighten a disc and never tamper with a disc in order to adapt it to a different size holder.
- ✓ Always use a disc suitable for the material being cut. Ensure that the cutting disc's specified maximum speed is equal to, or higher than, that indicated on the machine data plate. Once mounted on the grinder, test the disc before use by facing the grinder in a safe direction (point disc away from yourself, others and vulnerable items) and running it for a short time.
- WARNING!** Keep guard and holding screws in place, tight and in good working order. Check regularly for damaged parts. A guard or any other part that is damaged must be repaired or replaced before next use. The safety guard is a mandatory fitting when the saw is used on premises covered by the Health & Safety at Work Act.



- ✓ Remove adjusting keys and wrenches from the machine and its vicinity before turning it on.
- ❑ **WARNING!** Wear approved safety eye protection, ear defenders, gauntlets and, if dust is generated, respiratory protection.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.
- ✓ Keep hands and body clear of the worktable when operating the saw, and DO NOT position your body in line with the abrasive wheel.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ Avoid subjecting disc to excessive strain, always ease disc down against workpiece (a harsh downward impact may break the disc). Do not apply undue force on the handle in order to cut workpiece. Maintain a controlled cutting speed through the workpiece.
- ❑ **WARNING!** DO NOT switch on the saw whilst the disc is in contact with the workpiece. Bring the rotating disc to the workpiece. Avoid unintentional starting of the saw.
- x DO NOT hold the workpiece by hand. Use base vice to secure the workpiece.
- x DO NOT use the saw for a task it is not designed to perform.
- x DO NOT allow untrained persons to operate the saw.
- x DO NOT get the saw wet, or use in damp or wet locations or areas where there is condensation.
- ❑ **WARNING!** DO NOT use the saw where there are flammable liquids, solids or gases such as paint solvents and including waste wiping rags etc.
- x DO NOT operate the saw if any parts are missing or damaged as this may cause failure and/or personal injury.
- x DO NOT remove the safety guard whilst the saw is in use.
- x DO NOT attempt to remove a workpiece until the disc has stopped rotating.
- x DO NOT touch the workpiece close to the cut as it will be very hot. Allow to cool. The cut edge of the workpiece will also be very sharp.
- x DO NOT leave the saw operating unattended.
- x DO NOT operate the saw when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ When not in use switch off the saw and remove the plug from the power supply.
- ✓ To move the saw, lock the machine head with the locking plate and lift by the handle.

## 2. APPLICATION & SPECIFICATIONS

The MG214 is a general purpose abrasive saw suitable for site use. Supplied with abrasive disc for metal cutting but will cut concrete with the correct disc fitted. Fully guarded disc and integral work vice are included.

### Specifications:

Size of disc	355 x 3 x 25.4mm	No-load speed	3900rpm
Disc Part No.	PTC/355C	Mitre angles	0 - ±45°
Cutting capacity	Ø60mm round bar Ø115mm pipe	Weight	.23kg
Maximum vice opening	190mm	Sound pressure level	112dB(A)
Motor	230V 2300W 110V 2000W	Sound power level	125dB(A)

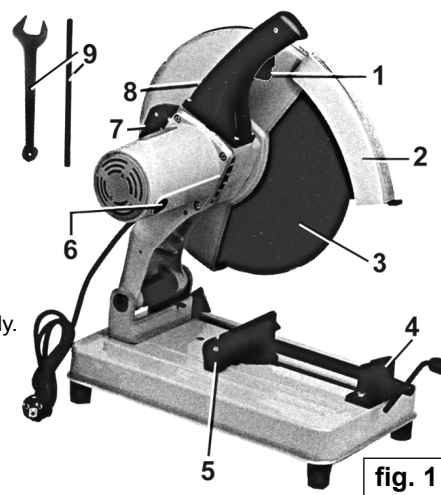


fig. 1

## 3. CONTENTS & ASSEMBLY

Unpack the product and check the contents.

Ensure that there is no damage. If any problem is noted, contact your supplier immediately.

Description:

1 On/Off switch	6 Carbon brush cap
2 Disc safety guard	7 Carry handle
3 Cutting disc	8 Overload switch
4 Vice	9 Disc removing tools
5 Vice back stop & angle guide	

**IMPORTANT: Abrasive disc MUST Only be fitted by a qualified person. See Sections 1.2. & 5.**

- 3.1. Open the carton, remove any packing, and carefully lift the saw out by holding the hand grip. Ensure that you maintain the correct posture for lifting.
- 3.2. To clamp the motor head in the (down) transport position turn the locking plate inward (fig. 2.A).
- 3.3. Position the saw on a flat, stable work bench, strong enough to support the saw and any workpiece.
- 3.4. Remove any packing from the vice.
- 3.5. Before using the saw, check that disc is perpendicular to the base of machine and that all parts are in good order and correctly secured.

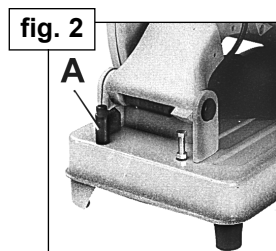


fig. 2

## 4. OPERATING INSTRUCTIONS

❑ **WARNING!** Before cutting ensure that you wear approved safety goggles, ear defenders, appropriate dust mask if cutting generates dust, and safety gloves. All safety instructions in Section 1 must be followed.

### 4.1. Securing workpiece

- 4.1.1. Ensure that the saw is unplugged from the power supply and then secure the workpiece in the base vice (fig. 1.5). We recommend that you place a block of wood (slightly narrower than the workpiece) in the vice below the item to be cut to act as a support (fig. 3).
- 4.1.2. For additional cutting capacity re-locate the vice back stop (fig. 1.5) in the rear vice holes and fully secure.
- 4.1.3. When cutting long workpieces use additional supports along the length.

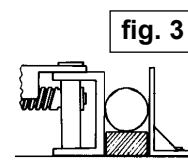


fig. 3

### 4.2. On/Off switch

Plug the saw into the power supply and start the saw by depressing the power switch located on the handgrip (fig. 1.1). Release the switch to stop the saw.

### 4.3. Overload switch

If the saw becomes overloaded the overload switch (fig. 1.8) will cut the power to the machine. To reset, press the switch down, first ensuring that the On/Off switch is in the Off position.

#### 4.4. Operation

**WARNING!** DO NOT switch on the saw whilst the disc is in contact with the workpiece. Bring the rotating disc to the workpiece.

- 4.4.1. The cutting disc must be running at maximum speed before attempting to lower the cutting edge onto the workpiece.
- 4.4.2. Lower the cutting disc slowly and smoothly down toward the workpiece (avoid jerky movements).
- 4.4.3. Avoid subjecting the disc to excessive strain. Always ease the disc down against workpiece (a harsh downward impact may cause disc failure) and do not apply undue force on the handle when cutting the workpiece. Maintain a controlled cutting speed.

#### 4.5. Completing the cut

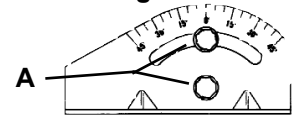
- 4.5.1. When cutting is complete, fully raise the cutting disc and release the On/Off switch.
- 4.5.2. Wait until the disc has stopped rotating before attempting to remove the workpiece.

#### 4.6. Mitre cutting

To cut the workpiece at an angle the base of the saw must be adjusted.

- 4.6.1. To make an angled cut, loosen the vice back plate retaining bolts (fig. 4.A) and turn the turntable to the required angle, reading the graduated scale around the perimeter of the vice back plate.
- 4.6.2. Re-tighten the retaining bolts and make the cut.

fig. 4



### 5. CHANGING CUTTING DISC

**▲ DANGER!** The use of damaged discs is dangerous and may cause injury.

**WARNING!** Ensure that the saw is unplugged from the power supply before attempting to change the cutting disc.

Before using a cutting disc ensure that there are no fissures or cracks in it. Once mounted on the saw test the disc before use by facing the saw in a safe direction (turned away from yourself, others and vulnerable items) and running it for a short time.

**IMPORTANT!** Cutting discs used with this machine shall be of an adequate speed rating and suitable for the task in hand. Only persons qualified under the "Abrasive Wheels Regulations" certificate are to change cutting discs.

#### 5.1. Removing disc

- 5.1.1. With the head in the up position rotate the disc guard until the handle engages with the slot in the fixed guard (fig. 5.A).
- 5.1.2. Loosen the centre guard clamp screw (fig. 5.B) and swing the centre guard (fig. 5.D) down.
- 5.1.3. Place the holding tool in the spindle hole (hole is located on the motor side of the disc, see fig. 6).
- 5.1.4. Use the spanner to remove disc clamp bolt (fig. 5.C).
- 5.1.5. Carefully remove the disc and clamping parts.
- 5.1.6. Clean parts before re-assembly.

#### 5.2. Fitting disc (fig. 6)

**WARNING!** Read Section 1 safety instructions to ensure disc fitting requirements are followed.

- 5.2.1. Fit the inner flange (2) checking to ensure that it seats correctly on the spindle (1). Fit the disc and items 3, 4 & 5 to the spindle.
- 5.2.2. Fit and tighten the locking bolt (6).
- 5.2.3. Before plugging the saw into the mains, move the disc guard back to the closed position so that the disc is covered.
- 5.2.4. Check that the guard is working properly by raising and lowering the operating head.

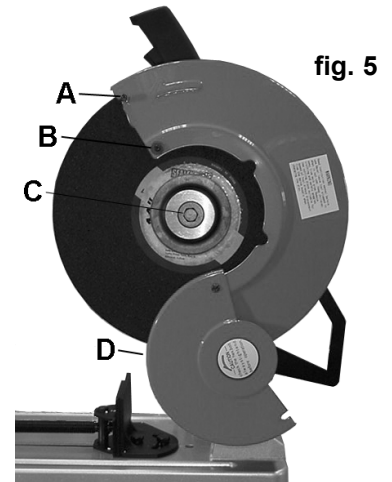
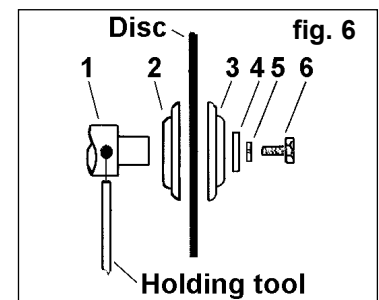


fig. 5



### 6. MAINTENANCE

**WARNING!** Ensure that the saw is unplugged from the power supply before attempting any maintenance.

- 6.1. Regularly clean the dust which accumulates inside the protective guard and on the external parts.
- 6.2. Periodically clean and oil the vice screw.
- 6.3. Change the abrasive disc when it is worn and does not operate efficiently.
- 6.4. To change the motor brushes removed the brush caps with a screwdriver (fig. 7). Replace the carbon brushes and re-install the brush caps.

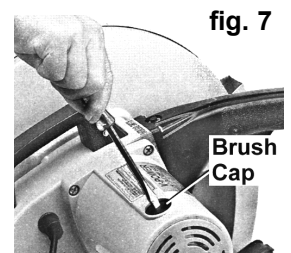


fig. 7

### 7. DECLARATION OF CONFORMITY

#### Abrasive Disc Cut-Off Saws

Models MG214/230V.V2 & MG214/110V.V2

73/23/EEC Low Voltage Directive  
89/336/EEC EMC Directive  
98/37/EC Machinery Directive  
93/68/EEC CE Marking Directive  
2002/95/EC RoHS Directive  
2002/96/EC WEEE Directive

**Declaration of Conformity** We, the sole importer into the UK, declare that the products listed here are in conformity with the following standards and directives.



Signed by Mark Sweetman

6th August 2007

The construction files for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

For Jack Sealey Ltd. Sole importer into the UK of Sealey Quality Machinery.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of this equipment.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.

**INFORMATION:** For a copy of our catalogue and latest promotions call us on 01284 757525 and leave your full name, address and postcode.



Sealey Group,  
Bury St. Edmunds, Suffolk.

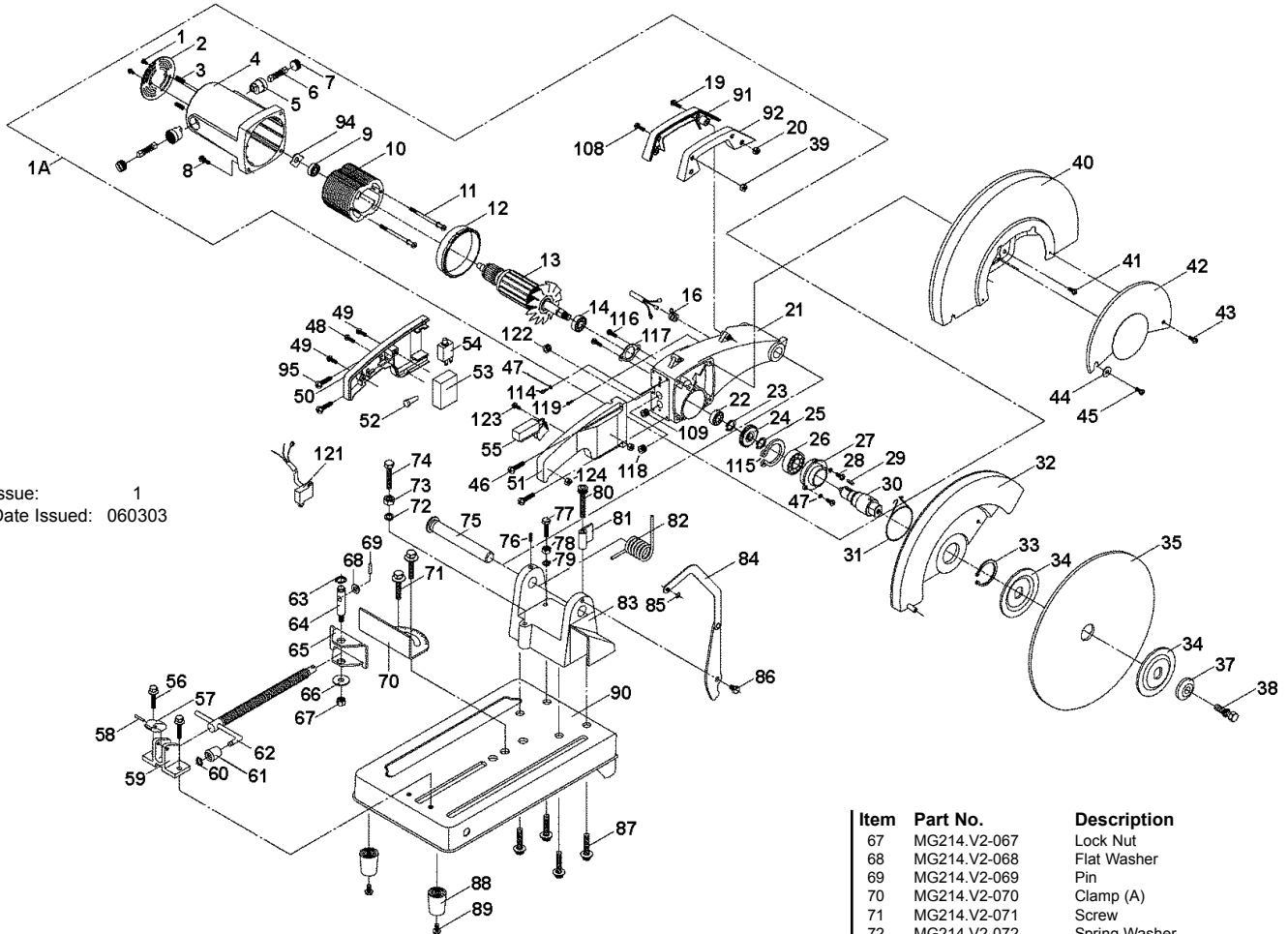
01284 757500

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Models: **MG214/230V.V2 & MG214/110V.V2**



Issue: 1  
Date Issued: 060303

Item	Part No.	Description
1	MG214.V2-001	Screw
1A	MG214.V2-001A	Motor Assembly, 230V
1A	MG214.V2-001B	Motor Assembly, 110V
2	MG214.V2-002	Rear Cover
3	MG214.V2-003	Screw
4	MG214.V2-004	Motor Housing
5	MG214.V2-005	Brush Holder
6	MG214.V2-006	Carbon Brush
7	MG214.V2-007	Brush Cap
8	MG214.V2-008	Screw
9	B/6200ZZ	Bearing
10	MG214.V2-010A	Field Coil Asm, 230V
10	MG214.V2-010B	Field Coil Asm, 110V
11	MG214.V2-011	Screw
12	MG214.V2-012	Plastic Ring
13	MG214.V2-013A	Rotor Asm, 230V
13	MG214.V2-013B	Rotor Asm, 110V
14	B/6002-2RS	Bearing
16	MG214.V2-016	Strain Relief
19	MG214.V2-019	Screw
20	MG214.V2-020	Nut
21	MG214.V2-021	Arm
22	B/608ZZ	Bearing
23	MG214.V2-023	C-ring
24	MG214.V2-024	Gear
25	MG214.V2-025	C-ring
26	B/6006ZZ	Bearing
27	MG214.V2-027	Side Cover
28	MG214.V2-028	Screw
29	MG214.V2-029	Key
30	MG214.V2-030	Shaft
31	MG214.V2-031	Spring
32	MG214.V2-032	Safety Guard

Item	Part No.	Description
33	MG214.V2-033	C-ring
34	MG214.V2-034	Flange, Inner
35	MG214.V2-035	Abrasive Wheel
37	MG214.V2-037	Washer
38	MG214.V2-038	Hex. Head Screw
39	MG214.V2-039	Nut
40	MG214.V2-040	Wheel Cover
41	MG214.V2-041	Screw
42	MG214.V2-042	Side Cover
43	MG214.V2-043	Screw
44	MG214.V2-044	Washer
45	MG214.V2-045	Screw
46	MG214.V2-046	Screw
47	MG214.V2-047	Washer
48	MG214.V2-048	Screw
49	MG214.V2-049	Screw
50	MG214.V2-050	Crank, Left
51	MG214.V2-051	Crank, Right
52	MG214.V2-052	Wire Connector (230V only)
53	MG214.V2-053	EMC Filter (230V only)
54	MG214.V2-054	Overload Switch
55	MG214.V2-055	On/Off Switch
56	MG214.V2-056	Screw
57	MG214.V2-057	Quick Release Nut
58	MG214.V2-058	Pin
59	MG214.V2-059	Lead Screw Seat
60	MG214.V2-060	C-ring
61	MG214.V2-061	Handle
62	MG214.V2-062	Lead Screw
63	MG214.V2-063	C-ring
64	MG214.V2-064	Clamping Shaft
65	MG214.V2-065	Clamp (B)
66	MG214.V2-066	Washer

Item	Part No.	Description
67	MG214.V2-067	Lock Nut
68	MG214.V2-068	Flat Washer
69	MG214.V2-069	Pin
70	MG214.V2-070	Clamp (A)
71	MG214.V2-071	Screw
72	MG214.V2-072	Spring Washer
73	MG214.V2-073	Nut
74	MG214.V2-074	Screw
75	MG214.V2-075	Shaft
76	MG214.V2-076	Screw
77	MG214.V2-077	Screw
78	MG214.V2-078	Screw
79	MG214.V2-079	Spring Washer
80	MG214.V2-080	Screw
81	MG214.V2-081	Bracket Plate
82	MG214.V2-082	Torsion Spring
83	MG214.V2-083	Housing Seat
84	MG214.V2-084	Lever
85	MG214.V2-085	E-ring
86	MG214.V2-086	Screw
87	MG214.V2-087	Screw
88	MG214.V2-088	Rubber Pad
89	MG214.V2-089	Screw
90	MG214.V2-090	Base
91	MG214.V2-091	Crank, Left
92	MG214.V2-092	Crank, Right
94	MG214.V2-094	Spring Washer
95	MG214.V2-095	Screw
108	MG214.V2-108	Screw
109	MG214.V2-109	Protection Rubber
114	MG214.V2-114	Screw
115	MG214.V2-115	C-ring
116	MG214.V2-116	Screw
117	MG214.V2-117	Bearing Cover
118	MG214.V2-118	Protection Rubber (230V only)
119	MG214.V2-119	Screw (230V only)
121	MG214.V2-121	Soft Start (230V only)
122	MG214.V2-122	Protection Rubber
123	MG214.V2-123	Tapping Screw
124	MG214.V2-124	Nut