

RV 640
1901 00 651

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WELGER

RV 640

OPERATING MANUAL

C O N T E N T S

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RANGE OF APPLICATION

The RV 640 is suitable for compressing voluminous waste such as paper, cardboard and similar materials.

It is not suitable for compressing refuse, especially not for damp substances e. g. kitchen waste.



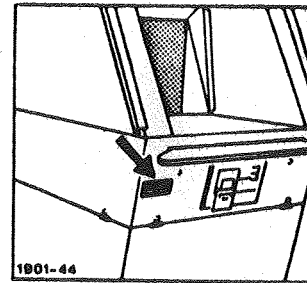
Sharp-edged glass, metal or similar objects may not be fed in because of the material structure of the rubber compressing elements.

The waste roller RV 640 may be employed only for its approved usage. Otherwise no liability for resulting damage can be accepted. Approved usage includes strict adherence to the manufacturer's operating and maintenance instructions, as well as the fitting of original spare parts.

The waste roller RV 640 may be operated, serviced and repaired only by persons trained in these duties and instructed about possible hazards. The ruling accident prevention code, as well as generally recognized rules on occupational safety and health should be observed at all times.

See General Accident Preventive and Safety Regulations.

The SERIAL NUMBER can be seen in the adjoining illustration. As it is essential to quote this number in full in all your enquiries and guarantee claims, we recommend you to note it in the space below.



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TECHNICAL DATA

Dimensions	H x W x D Height of table Width of table Distance from floor 4 stands with rubber springs	1750 x 940 x 1390 mm 1090 mm 600 mm 180 mm
Bale dimensions		∅ 400 x 600 mm
Bale weight	(depending on material)	20 - 30 kg
Density		250 - 400 kg/m ³
Capacity		up to 300 kg/h.
Take in speed		0,36 m/s
Tying material	Sisal twine, runnage in spools of Spool weight	400 m/kg ∅ 210 x 170 mm 4 kg
Tying material	consumption	Approx. 3,5 kg/100 bales
Electrical equipment:	Three-phase gear motor Electrical controls with auto- matic overloading safety device Press button switches Lockable main switch Density control indicated by red lamp Safety contact panel The lower side flaps on the left and right and the twine box lid are safeguarded by a stop switch.	380 V / 50 Hz 1,5 kW, 3,6 A
Lubricants	Chain drive Gear motor ABM Köllmann gear motor	Chain Lubricant e.g. Optimol art. No. 328 or Antol for chain saws Welger No. 1702.82.02.10 0,4 l gear oil CLP ISO VG 220 0,9 l gear oil CLP ISO VG 150

INSTALLATION

The waste Roller RV 640 is delivered in protective packing. The yellow transporting frame is for transporting the waste roller to its place of installation with a fork lift or a hand elevating platform.

The waste roller can be picked up from the rear or the side (see markings on packing.).

Remove the protective packing. The levers "a", "b" and "f" are packed in the twine box. Open upper lid (page 4, fig. 7). Open the ejection flap with lever "a" and remove the yellow transporting frame. (fig. 1)

Then shut the ejection flap. Make sure that lever "a" is pressed back to the catch on the waste roller, to prevent the ejection flap from opening.

Lever "a" can be attached on the right or left of the waste roller whichever is most convenient for use, and is to be fastened to the shaft with a safety pin.

Lever "b" is to be attached on the left (fig. 3). If the waste roller can only be operated from the right, then the restoring spring on the cutter block must be mounted, laterally reversed, on the opposite side.

Make sure, when installing, that the waste roller is level. For this purpose washers of various thickness have been provided on the rear stands, between the support and the screwed on rubber buffer. By shifting these washers around on the four stands any slight unevenness of the floor itself can be compensated for.

The waste roller RV 640 is delivered from the factory with a 4 m long connecting cable (5 x 1,5 mm²) with a plug and socket for a wall socket, 5 poles, 16 A as in VDE 0623. The connecting cable must be laid where it cannot be driven over or damaged in any other way. The socket must be situated in a position which can be seen from the place of operation of the waste roller.

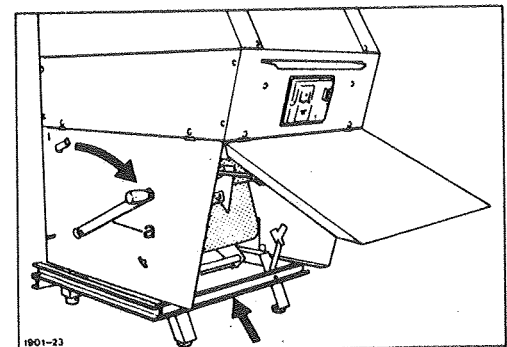


fig. 1

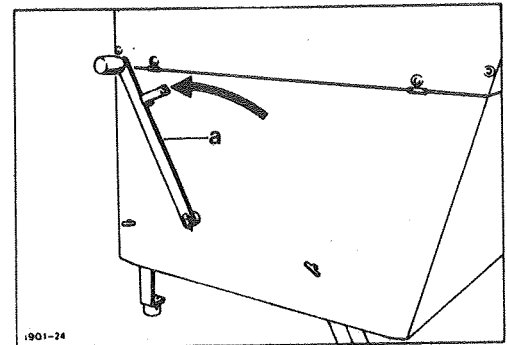


fig. 2

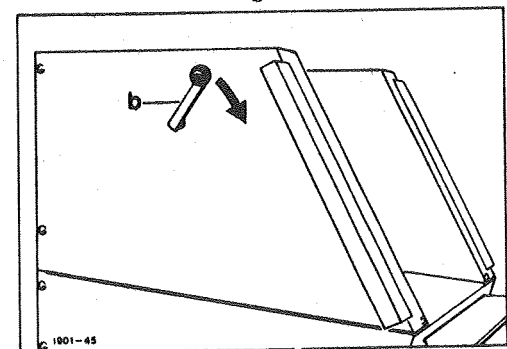


fig. 3

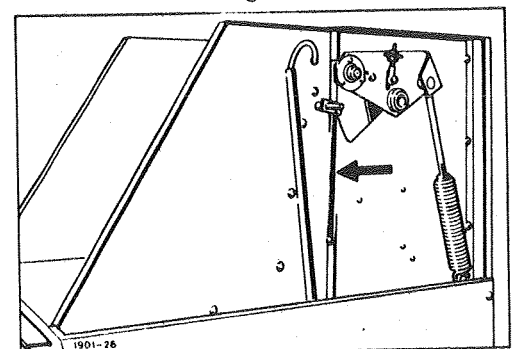


fig. 4

REPARING FOR OPERATION

Before switching on, check to see that lever "a" for operating the ejection flap is behind the catch on the mark. (Page 2, fig. 2)

Switch on the motor:

Make sure that green button 1 of the motor safety switch is pressed in, then press the green starter button 2, (fig. 5). If the feed-in belt does not convey downwards, change the poles in the plug.

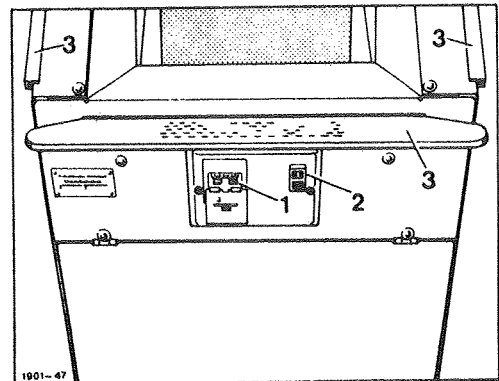


fig. 5

Feeding the baling material into the waste roller:

First press smaller articles e.g. scrunched up paper or similar into the feed area. When the rotating compressor has begun to wrap and the feed area begins to open, bigger articles e.g. smooth sheets of paper or similar can be fed into the compressor without any problems arising, until the red control lamp 4 (fig. 6) comes on.

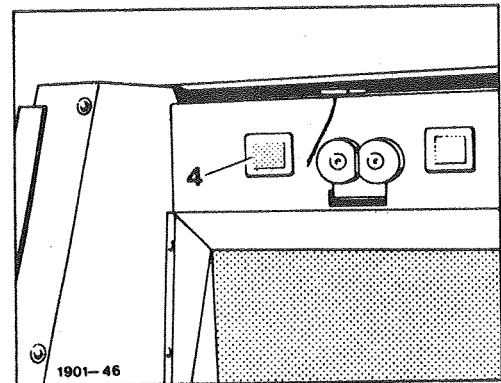



fig. 6

 The waste roller can be switched off immediately on the red safety switch panel (fig. 5, Nr. 3).

Tying sequence:

The tying sequence is to be started as soon as the lamp 4 (fig. 6) comes on. Approx. 1 m of twine is pulled out of the twine guide eye and thrown into the centre of the feed-in area. After the guide eye has gone backwards and forwards several times, the twine is cut as soon as it reaches both cutting discs, which come forward to cut the twine by means of using lever "b". (Page 2, fig. 3).

Bale ejection:

While the machine is still running, lever "a" is pulled forward, opening the ejection flap (Page 2, fig. 1 or 2). The bale rolls down and is ready after the end of the twine has been tucked in under a twine wrapping. As soon as the ejection flap is shut again, new material can be fed in once more.

INSERTING THE TWINE SPOOLS

When the waste roller RV 640 is delivered a twine spool is in position, the twine has been pulled through the twine guiding elements and is ready for operation.

A new twine spool is inserted as follows:

Switch off the waste roller and open upper lid. The twine guide arm "c" must be brought from the centre to the left side of the slide rail. The twine guide arm is brought into this position by turning the upper disc in an anti-clockwise direction. (fig. 7)



Do not press the twine guide arm into this position manually as this damages the toothed belt.

Put the twine spool into the twine box on the right hand side and pull the twine through the twine brake (1) and eye (2). The twine is put round the drive disc (3) once, goes under the spring (4) on to the twine guide arm and through the eye (5). (fig. 8)

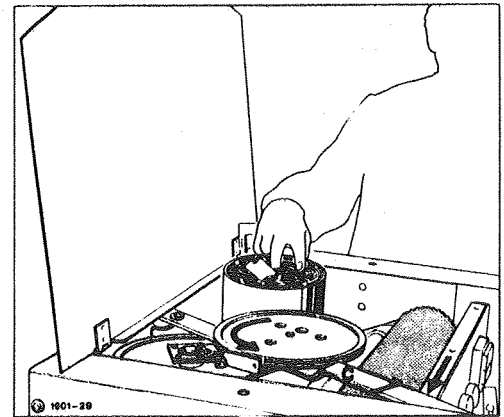


fig. 7

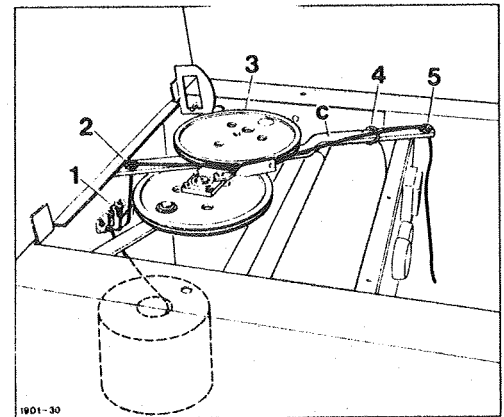


fig. 8

OVERLOADING SAFETY DEVICES AND DEALING WITH OPERATIONAL FAULTS



Before all servicing work and repairs always switch off at the mains.

The red lamp above the feeding table indicates the level of loading. If the waste roller is overloaded by too much material towards the end of the bale production process, it is switched off by an electric safety device.

If the compressor is switched off by the motor safety switch, wait for approx. 1 minute before pressing the motor safety switch button 1, and then switch on the waste roller with press button 2. (Page 3, fig. 6)

If the motor does not start, the ejection flap must be opened and the machine switched on with the flap open. The untied bale is then ejected. The material must be loosened up and fed into the waste roller again.

If, because of certain properties of the material to be compressed, a pile-up of material should accumulate between the scraper roller and the scraper (see arrow, fig. 10), proceed as follows: Open the ejection flap (Page 2, fig. 1) and the side flap on the right of the waste roller, pull lever "d" (fig. 9) over the locking pin "e" on the hinged plate on the right, bringing it into the position shown (fig. 9). Shut side flap on right, (ejection flap remains open), switch on waste roller; the accumulation of material is distributed.

If this measure does not have the desired effect, open the side flap on the right again, attach lever "f" on to the square head of the toothed gear wheel (fig. 9), and turn to clear the waste roller, if necessary remove the rest of the material manually. If necessary clean the spiral grooves on the scraper roller.

After clearing the obstruction, check to see whether the scraper is close to the scraper roller. Close ejection flap, using lever "f" turn scraper roller (see arrow, fig. 9). If no grinding sound can be heard, adjust stop screw "g" (fig. 10). In this case, the casing on the middle left including the side flap must be removed.

The scraper should lie on the scraper roller without exerting any pressure. The scraper roller should be able to be turned using lever "f" - grinding slightly on the scraper as it turns.

Remove lever "f", hang up on rear side on special holding device (fig. 9).

Return lever "d" to original position - all gear wheels are engaged.

Mount side casing, shut both side flaps.

The waste roller is ready for operation.

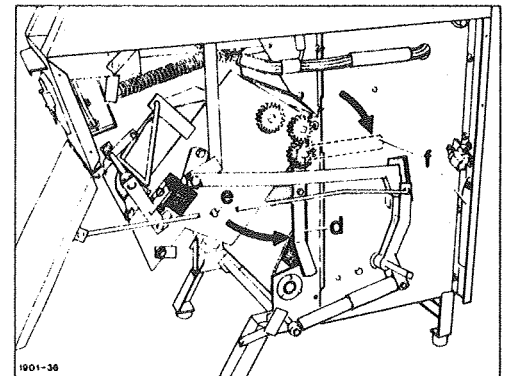


fig. 9

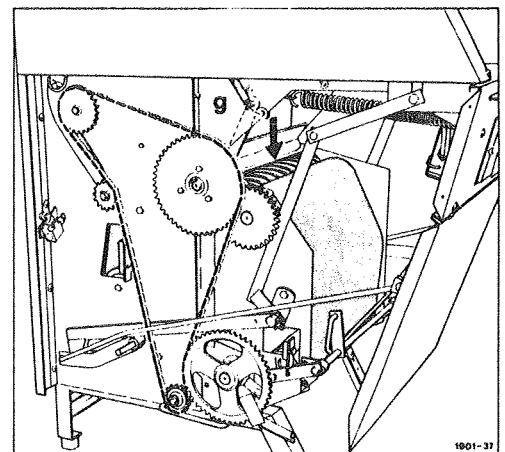
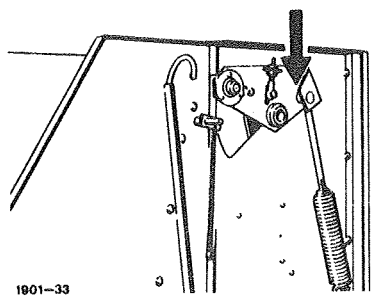


fig. 10

Fault	Possible cause	Remedy
<p>Motor does not run when starter button is pressed</p>	<p>Electricity supply is cut off: a) Safety fuses or lead could be defekt</p>	<p>Renew fuses, get an electrician to check the lead.</p>
	<p>b) Motor safety switch has not been switched on</p>	<p>Press in green button 1 of motor safety switch, start waste roller (Page 3, fig. 6)</p>
	<p>c) Guards are not shut properly; Electric current is interrupted by the stop switches</p>	<p>Lock the guards at the bottom with toggle locks. Shut twine box lid.</p>
	<p>d) Motor safety relay is not yet ready for operation</p>	<p>Bimetal must cool off. Wait approx. 1 minute</p>
	<p>e) Motor gets hot</p>	<p>Remove rear guard. Clean motor suction grid. make sure that the fan blade is functioning properly.</p>
<p>Long conveyor belt slips off</p>	<p>Pre-set tension is too low</p> 	<p>Remove upper guard on right and left, tighten the cap screws on right and left tensioning lever with key (the windings of the spring should only be slightly apart).</p>

MAINTENANCE

Small amounts of left-over material can accumulate under the waste roller during the baling process. Clean under the machine every week to make sure that the conveyor belts have the free space they need to function well.

The side flaps on the right and left of the waste roller are also to be opened weekly, to remove the accumulation of left-over material which comes out via the scaper roller from the long and short conveyor belts. (See arrow in fig. 11 and 12)

Should certain working conditions and very dirty material cause a lot of dust in the conveyor belts, then the inside of the conveyor belts must be checked daily and if necessary, cleaned more often.



This small amount of maintenance definitely prolongs the life of the conveyor belts.

The roller chain on the left of the waste roller (fig. 12) should be lubricated during the regular weekly cleaning of the machine (see Techn. Data, page 1).

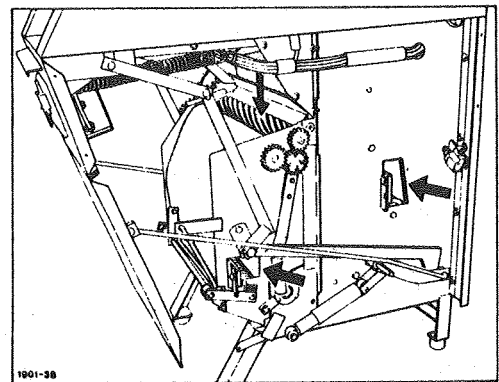


fig. 11

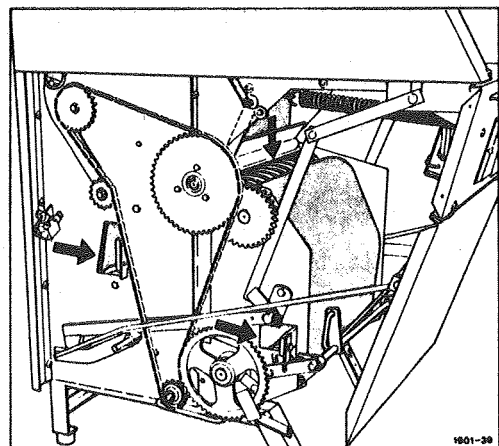


fig. 12