OPERATION, PARTS AND SAFETY MANUAL

SIGNODE®

BXT

BATTERY-HAND TOOL FOR PLASTIC STRAPPING

IMPORTANT!
DO NOT DESTROY

It is the customer's responsibility to have all operators and servicemen read and understand this manual.

Contact your local Signode representative for additional copies of this manual.

READ ALL INSTRUCTIONS BEFORE OPERATING THIS SIGNODE PRODUCT

SIGNODE • 3610 W. LAKE AVENUE • GLENVIEW, ILLINOIS 60025 U.S.A.

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1 TECHNICAL DATA

Weight	3.9 kg (8.6 lbs) (incl. battery)	
Dimensions	Length	375 mm (14.7")
	Width	130 mm (5.1")
	Height	140 mm (5.5")
Strap tension	400–2000 N (88–441 lbs)	
Tension speed	260 mm/s (10.2"/s)	
Sealing	Friction welded	

BATTERY CHARGER / BATTERY

Voltage	Battery charger, 100/240 V (AL 60 DV 1419) Bosch 12 V / 2.4 Ah / NiCd
Charging time	60 minutes
Strappings with one battery charge	100 to 200 depending on strap, strap tension and package
Service life	Up to approx 2000 chargings

PLASTIC STRAP

Strap quality	Polypropylene	(PP)
	Polyester	(PET)
Strap width adjustable to	12–13, 15–16 mm ($^1/_2$", $^5/_8$")	
Strap thickness	Polypropylene 0.6–1.0 mm (.023"–.039") Polyester 0.5–1.0 mm (.019"–.039")	

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⚠ WARNING

2 GENERAL INFORMATION

These operating instructions are intended to simplify familiarisation with the strapping tool and its proper use for the intended purpose. The operating instructions contain important information concerning the safe, proper and efficient use of the strapping tool. Compliance with the instructions will help to avoid danger, reduce repairs and stoppages and increase the reliability and service life of the strapping tool.

The operating instructions must always be available at the place of operation of the strapping tool. They must be read and observed by all persons concerned with work on the strapping tool. This work specifically
includes operation, refilling of operating material, fault elimination and maintenance.

In addition to the operating instructions and the regulations for accident prevention effective in the country of use and place of application, the recognised technical regulations for safety and proper operation must also be observed.

CAUTION!

Used where there is danger to life and health.

WARNING!

Used for danger which can cause material damage.

2.1 INFORMATION ON ENVIRONMENTAL PROTECTION

This tool is manufactured without any physical or chemical substances which could be dangerous to health.

For disposal of all the parts, the governmental instructions must be observed. The electrical assemblies should be dismantled so that the mechanical, electro-mechanical and electronic components can be dis-posed of separately.

Dealers provide an environmentally- friendly battery disposal service

- Do not open the battery.
- Do not throw the used battery into household waste, fire or water.

Defective or used batteries undergo a complete recycling process.

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⚠ WARNING

3 SAFETY INSTRUCTIONS

Inform yourself!
Read the operating instructions carefully.
Preventive and corrective maintenance on the tool may only be carried out by trained personnel.

Protect yourself!
When operating the tool, wear eye, face and hand protection (cut-proof gloves).

Power source!
Before starting preventive or corrective maintenance, remove battery from the tool.

Warning:
Strap will snap forward!
When cutting the strap, hold the upper portion and stand safely away from the strap.
Caution:
The lower strap will snap forward.

Warning:
Strap could break!
Do not stand in line with the strap while it is tensioned. The strap could break!

Caution:
Only strap packed goods!
Do not put hands or other parts of the body between the strap and the package during the strapping process.

Caution:
Danger of squeezing!
Do not put your fingers into the tension wheel area.

Do not use water!
Do not use water or steam to clean the tool.

Original spare parts must be used exclusively!
Not using original spare parts will dissolve the warranty and the liability.

Use for the intended purpose
This tool is designed for strapping packages, pallet loads and the like.

The tool was designed and manufactured to provide safe handling during the strapping operation.

The tool is designed for use with plastic straps (polypropylene and polyester).

Possible misuse
The use of steel straps is not possible.

3.1 SAFETY INSTRUCTIONS FOR BATTERY CHARGER AND BATTERY

Always inspect the electrical plug and cable before use. If damaged, they must be replaced by qualified personnel.

- Do not charge other types of batteries (see chapter 5.1) and use original accessories only.
- Keep the battery charger slot free of foreign objects and protect against dirt.
- Protect the battery charger against humidity and use it in dry areas only.
- Do not open the battery. Protect the battery against impact, heat and fire. Risk of explosion!
- When the battery is outside the battery charger, cover its battery terminals to avoid short circuits with metal objects. Risk of fire and explosion!
- Keep battery dry and protected against frost. Do not store it at temperatures over 50°C (122°F) or below 10°C (50°F).
- Damaged batteries should not be used longer.

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4.1 MAJOR COMPONENTS

1 Operating panel
2 Strap tensioning push button
3 Handle
4 Battery
5 Rocker lever
6 Welding/cutting button
7 Welding/Cutting
8 Tensioning
9 Battery charger

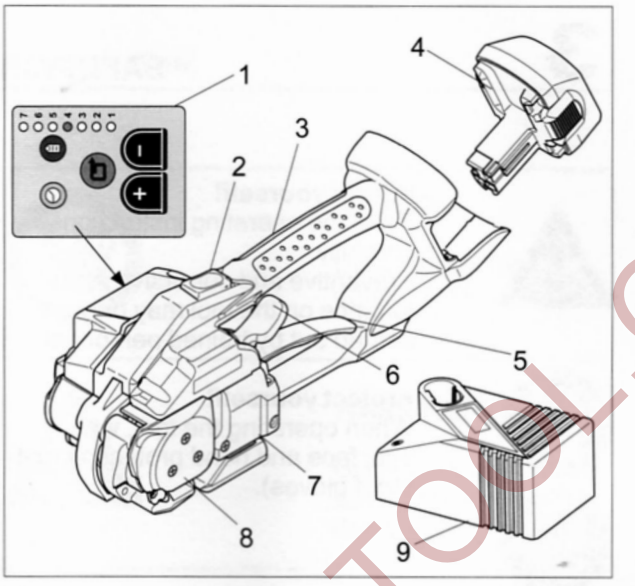

Fig. 1

4.2 OPERATING PANEL

1 Welding time push button
2 Strap tension push button
3 Battery push button
4 LED-indicators 1–7
Green = Strap tension setting
Red = Battery empty indicator
5 Setting – push button
6 Setting + push button

For detailed information of the operating panel, refer to chapter 6.3.

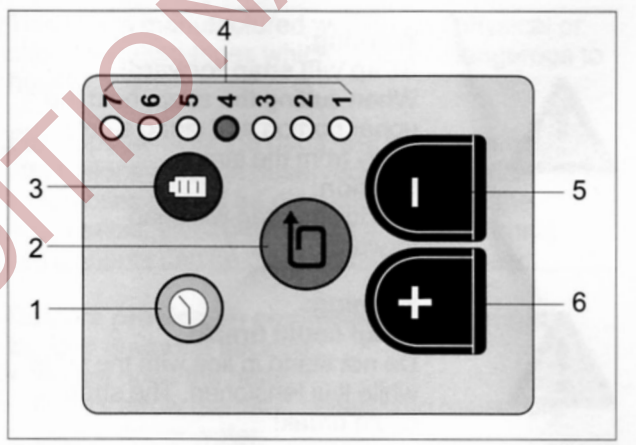

Fig. 2

4.3 FUNCTION

– Clamping of the straps by tooth plate on rocker (3/1).
– Tensioning by feed wheel (3/2) anti-clockwise.
– Friction welding (3/3) of the straps.
– Upper strap is cut by knife (3/4).

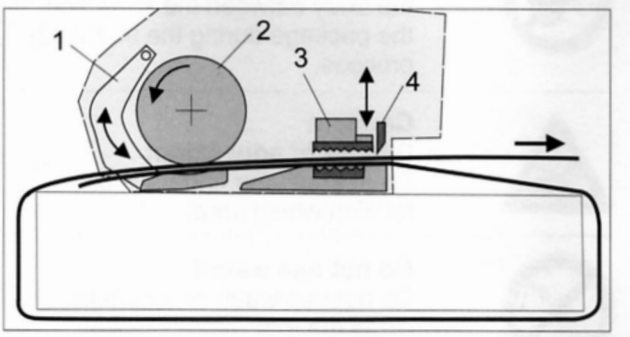

Fig. 3

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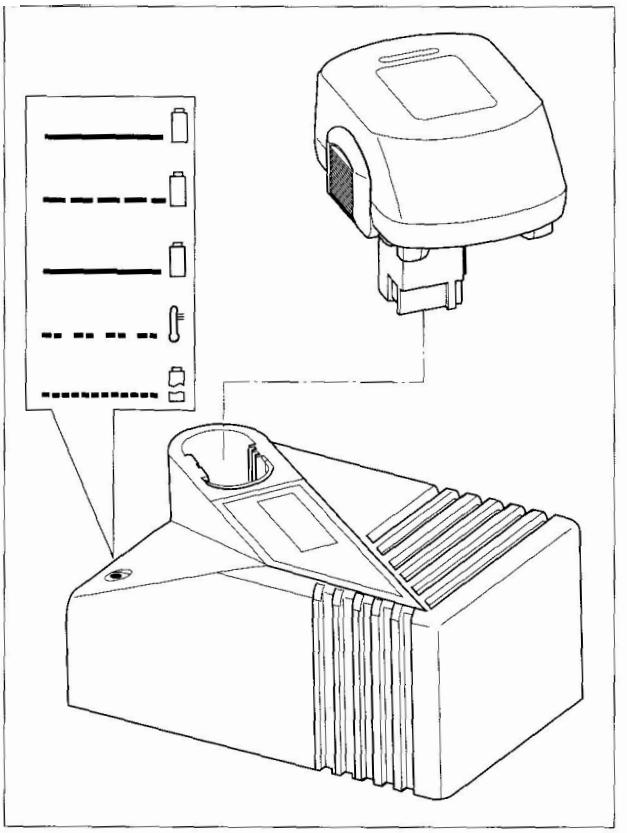

Fig. 4

4.4 BATTERY CHARGER INDICATORS

Continuous green light — **Ready for charging**
Battery not inserted, mains supply is connected.

Flashing green light — **Rapid charging**
Rapid charging operates until the battery is fully recharged. The battery charger then switches automatically to trickle charging.

Continuous green light — **Trickle charging**
Battery inserted, the battery charger is delivering only a trickle charge because the battery is already fully charged.

Double flashing green light — **Temperature**
Warning: the battery is too hot (or too cold). Trickle charging only.
The battery charger switches automatically to rapid charging when the temperature is within the permitted range again.

Flashing green light — **Error message**
Warning: battery cannot be charged (battery or temperature sensor defective or not a BOSCH battery).

No indicator illuminated
Mains supply not connected:
electrical plug, cable or battery charger defective.

For detailed information, refer to the operating instructions for the battery charger.

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5.1 BATTERY CHARGER

The mains supply must comply with the specifications on the rating plate (Fig. 5).

The battery charger is suitable only for charging batteries from the Bosch range of tools (NiCd/ NiMH) with voltages between 7.2 V and 14.4 V.

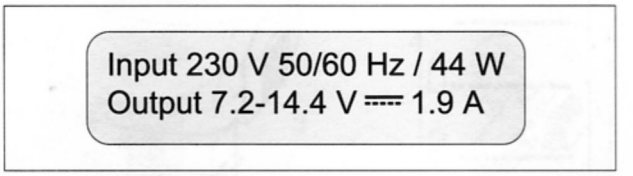

Fig. 5

5.2 FIRST BATTERY CHARGE

NOTE:
Please observe the following points in order to ensure optimum battery life:

– Connect battery charger (177) to mains supply.
– Insert battery (176) into battery charger slot.

For the first charge, leave the battery in the charger for at least five hours, regardless of the battery indicator (the charging time for all subsequent charges is about 60 minutes).

For all subsequent charges, only recharge the battery when the LED indicator on the tool indicates battery empty (see Chapter 6.3). Avoid charging when the battery is not yet discharged. This will ensure optimum battery capacity and life.

Maximum battery output will be reached after four or five charging/discharging cycles.

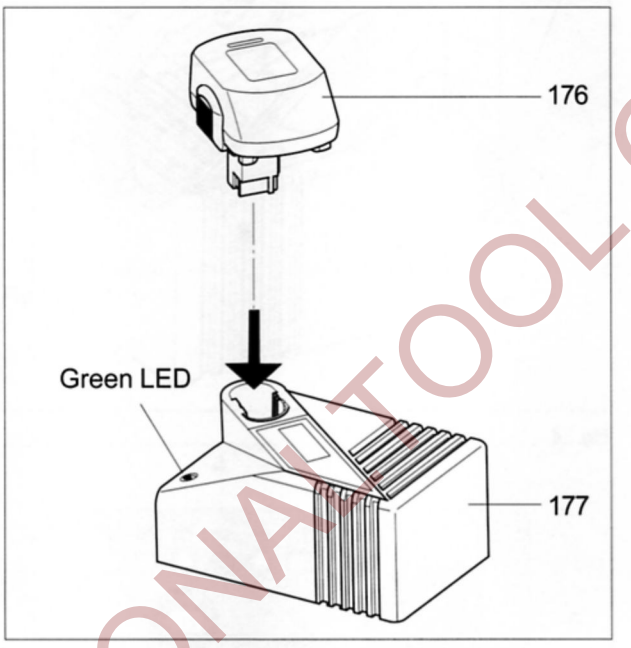

Fig. 6

5.3 CHARGING THE BATTERY

The charging process and error functions are indicated by a green light (see chapter 4.4).

The charging time is approximately 60 minutes.

The maximum charging current flows when the tem-perature of the battery is between 15–45°C (59°F–113°F). Avoid charging the battery at temperatures below 0°C (32°F).

NOTE:
If the battery is not to be used for a longer period (several days), it should be removed from the tool and charged/stored in the battery charger.

The intelligent charger with fuzzy control charges the battery with the optimum rapid charging current, depending on temperature and capacity. If fully charged, a preserving charge will prevent self-discharge and thus guarantee a long battery life.

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⚠ WARNING

Wear safety glasses. Stand to one side of the strap when tensioning.
Make sure all bystanders are clear before proceeding.

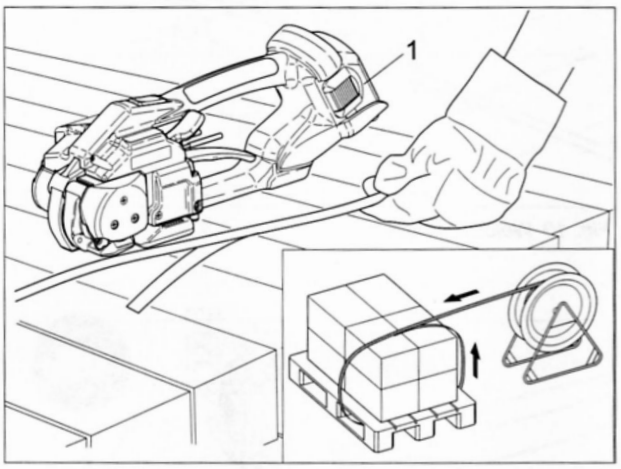

Fig. 7 Place strap around package

6.1 OPERATING THE TOOL

– Insert charged battery (7/1) into strapping tool.
– Place strap round goods to be packaged, so that the straps lie one above the other on top of package. The beginning of the strap is underneath. Hold the straps with the left hand so that the strap beginning is approximately 20 cm (8") ahead of the hand.

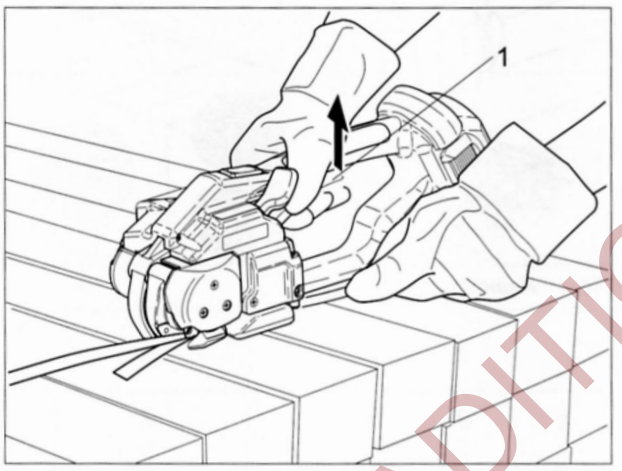

Fig. 8 Slide straps into tool

– Take the tool in the right hand and lift the rocker lever (8/1) towards the handle.
– Slide the straps, one on top of the other, into the tool up to the stop.

NOTE:
The strap lead is now approximately 5 cm (2") beyond the tool.

– Release the rocker lever.

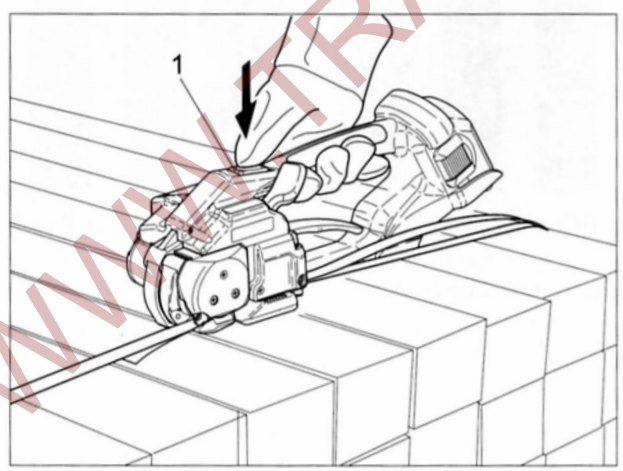

Fig. 9 Strap tensioning

– Press the push button (9/1). The strap is tensioned until the required or pre-selected strap tension is reached.
– **The strap tension can be adjusted on the operating panel (see Chapter 6.3.2).**
– The strap can be re-tensioned at any time.

Releasing strap tension
In order to release the strap tension after the tensioning process, lift rocker lever (8/1) against handle.

Tensioning – welding
The welding process is started only when the minimum strap tension of 400 N has been attained.

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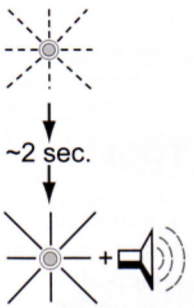
– Depress button (10/1) completely to the stop. The straps are welded together and the upper strap is cut off. The LED indicator (10/2) indicates the cooling time of the sealing:



LED flashing
After finishing the friction welding, the green LED flashes for approx. two seconds.
Do not remove the tool during this time!

Continuous LED and audible signal
The sealing cycle is finished.

If the straps have not been welded and an audible signal sounds, this means the minimum strap tension was not attained –> re-tension.

– After the LED has stopped flashing and the audible signal sounds, raise the rocker lever up to the handle.
– Swing the tool away from the strapping backwards and to the right.
– Check the seal (refer to chapter 6.2).

If the tool is used in a dirty environment, it is recommended that it should be cleaned daily. In particular the tension wheel and the tooth plate should be checked for damage and kept clean. This is best performed by blasting with compressed air (wear goggles).

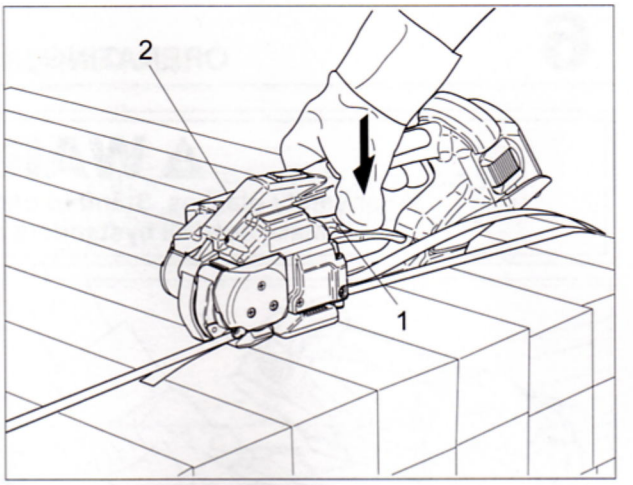


Fig. 10 Welding straps

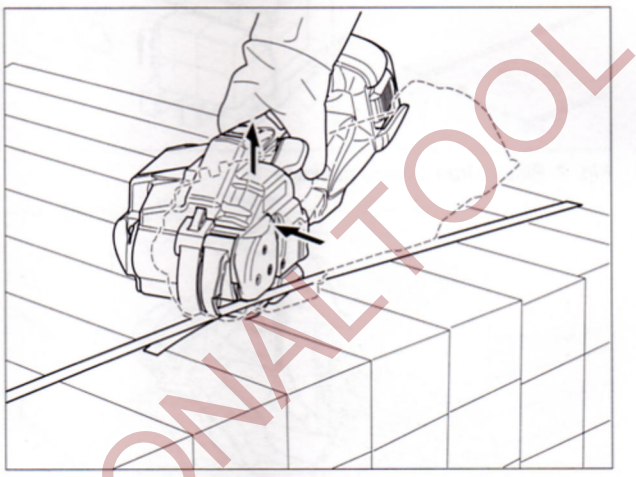


Fig. 11 Removing tool

6.2 STRAP SEAL INSPECTION

– Check appearance of seal (see fig. 12) regularly. If the straps are poorly welded, **check the welding time setting (refer to chapter 6.3.3).**

1 Poorly welded seal (not welded over the complete surface), welding time too short.
2 Good seal (the complete surface is cleanly welded without excess material being forced out sideways).
3 Poorly welded seal (excess material is forced out sideways), welding time too long.

An incorrectly welded strapping cannot secure the package and can thus lead to injuries.
Never transport or move packaged goods with incorrectly welded seals.

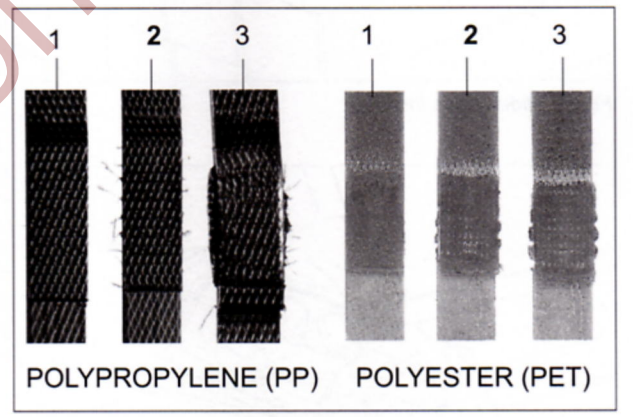


Fig. 12 Checking of seal

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6.3 OPERATING PANEL

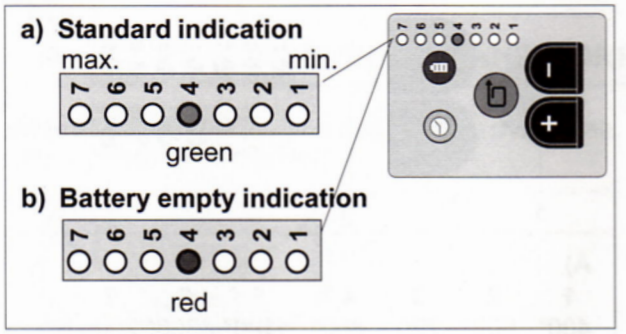

Fig. 13

a) Standard indication (green)
The current strap tension setting is monitored with inserted and charged battery.
1 = minimum strap tension (approx. 400 N) (88 lbs)
7 = maximum strap tension (approx. 1200/2000 N*) (264/441 lbs*)
* depending on strap tension range, refer to chapter 6.3.4.
– For adjustment of strap tension, refer to chapter 6.3.2

b) Battery empty indication (red)
If the inserted battery is empty, the LED switches to red and the battery must be charged, refer to chapter 5.3.

6.3.1 CHECKING BATTERY CHARGE

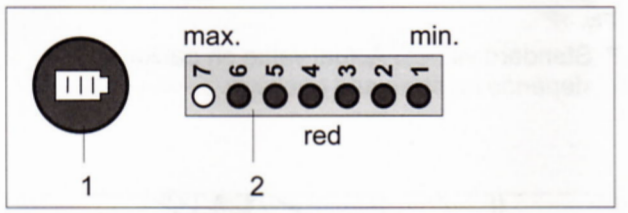

Fig. 14

– Depress battery push button (14/1) briefly. Read off battery charge on LED indicator (14/2).
1 = minimum charge (battery must be charged soon)
1–7 = maximum battery charge

6.3.2 SETTING STRAP TENSION

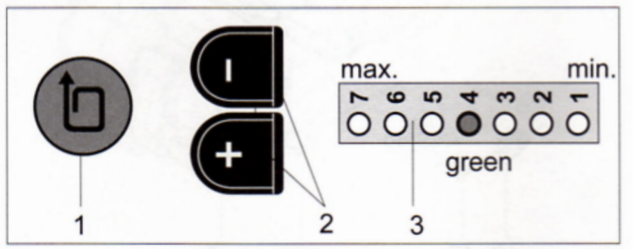

Fig. 15

– Depress strap tension push button (15/1) briefly until LED indicator (15/3) flashes.
– Depress – or + push button (15/2) until flashing LED indicator shows required strap tension (wait two seconds until new setting is saved).
1 = minimum strap tension (approx. 400 N) (88 lbs)
7 = maximum strap tension (apprrox. 1200/2000 N*) (264/441 lbs*)
* refer to Chapter 6.3.4.

6.3.3 SETTING WELDING TIME

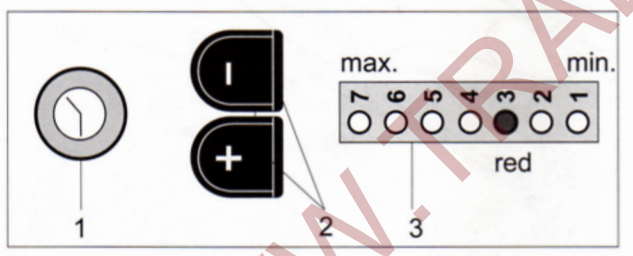

Fig. 16

– Depress welding time push button (16/1) briefly until LED indicator (16/3) flashes.
– Depress – or + push button (16/2) until flashing LED indicator shows required welding time (wait two seconds until new setting is saved).
1 = minimum welding time
7 = maximum welding time

NOTE:
The welding time for PET straps is longer than for PP straps.

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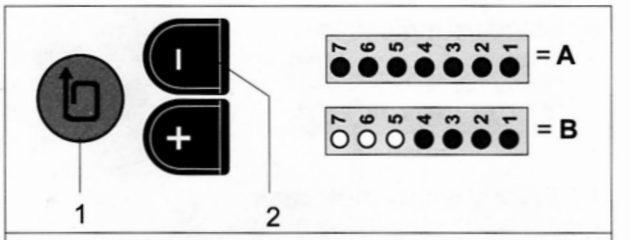
6.3.4 SETTING STRAP TENSION RANGE

NOTE:
The following two strap tension ranges can be set on the tool:
A = 400–2000 N / 88–441 lbs (standard)
B = 400–1200 N / 88–264 lbs (eg for 13 mm ($^1/_2$") straps)

Check strap tension range
– Depress and hold down "–" push button (17/2), and depress strap tension push button (17/1) for one second.
– If the LEDs 1–7 are flashing = A (400–2000 N)
– If the LEDs 1–4 are flashing = B (400–1200 N)

Change strap tension range
– Depress and hold down "–" push button (17/2), and depress strap tension push button (17/1) for one second.
– Depress "–" or "+" push button briefly so strap tension range changes (wait two seconds until new setting is saved).



A)

1	2	3	4	5	6	7
400*	600*	750*	850*	1100*	1300*	2000 N*
88*	132*	165*	187*	242*	286*	441 lbs*

B)

1	2	3	4	5	6	7
400*	450*	600*	750*	1000*	1100*	1200 N*
88*	99*	132*	165*	220*	242*	264 lbs*

Fig. 17

* Standard values! Actual value on package depends on strap and package.

6.4 SETTING STRAP WIDTH

NOTE:
The tool can be used with two different strap widths (12–13 mm ($^1/_2$") or 15–16 mm ($^5/_8$").

a) Change strap width from 12–13 mm ($^1/_2$") to 15–16 mm ($^5/_8$")
– Remove battery from tool.
– Release sunk screw (47) and remove strap stop 13 mm (43).
– Lift the rocker lever towards the handle, release sunk screw (47) and remove strap guide 13 mm (102).

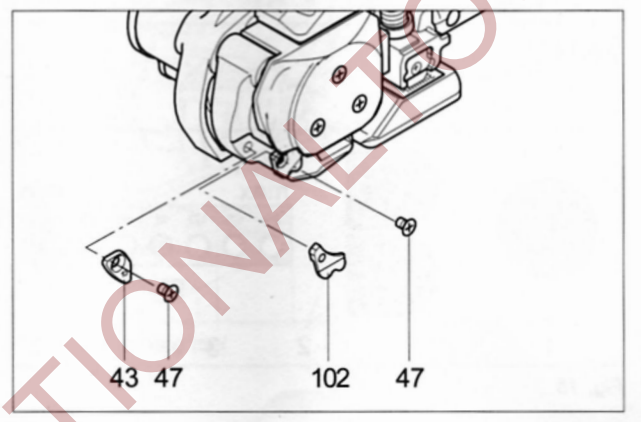


Fig. 18

– Release sunk screw (103) and cylinder screw (153) and remove cover (146).
– Release cylinder screw (154) turn strap stop (148) 180° and remount it.
– Unscrew threaded bolt eight turns with screwdriver (190).
– Pull down strap guide (147) and turn it 180° until 16 mm indicator appears.
– Tighten threaded bolt with screwdriver (190) and mount cover (146).
– Secure screws (153) and (103) with Loctite 222.

b) Change strap width from 15–16 mm ($^5/_8$") to 12–13 mm ($^1/_2$")
– Sequence as described under point a).
– Mount 13 mm strap stop (43) and secure sunk screw (47) with Loctite 222.
– Mount 13 mm strap guide (102) and secure sunk screw (47) with Loctite 222.
– Turn strap stop (148).
– Turn strap guide (147) until "13" indicator appears.

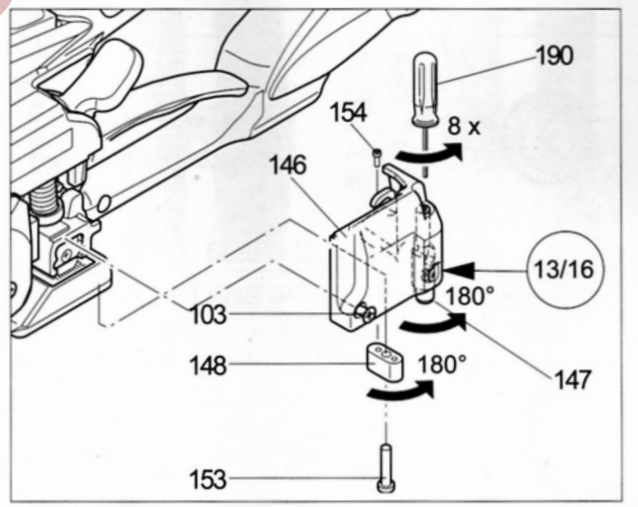


Fig. 19

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All preventive maintenance tasks can be performed with a Phillips screw driver!

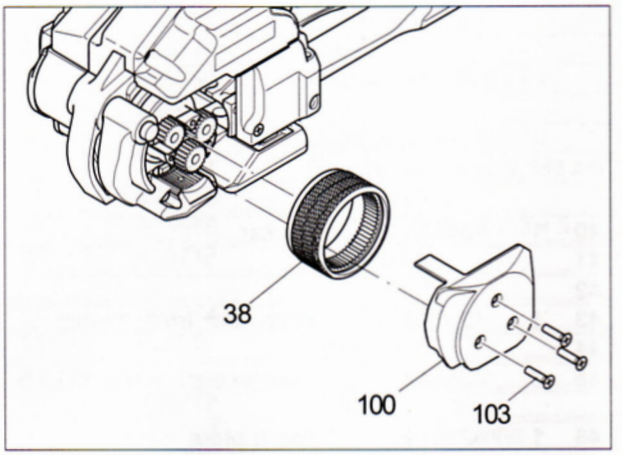

Fig. 20

7.1 CLEANING/REPLACING TENSION WHEEL

Removal
- Remove battery from tool.
- Release three sunk screws (103) and remove cover (100) with ball bearing.
- Carefully remove tension wheel (38).
- Clean the tension wheel with compressed air (wear goggles).
- If the tension wheel teeth are covered with heavy dirt, they must be carefully cleaned with the wire brush supplied or a sharp tool.
- Check tension wheel for worn teeth. If a few teeth are worn, replace tension wheel.

Installation
- Install the parts in reverse order.
- Grease gear teeth of tension wheel **lightly** with Klüber grease GBU Y 131 (Microlube).
- Secure sunk screw (103) with Loctite 222.

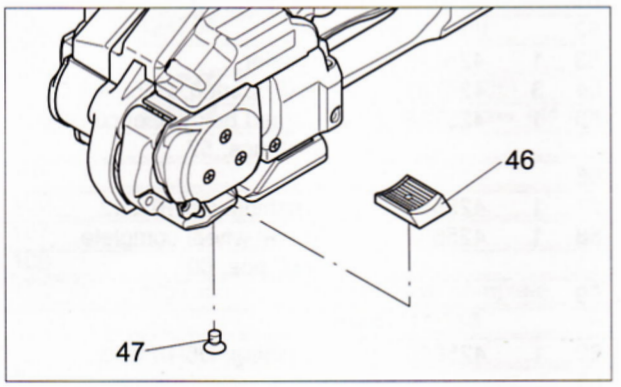

Fig. 21

7.2 CLEANING/REPLACING TOOTH PLATE

Removal
- Remove battery from tool.
- Release sunk screw (47) and remove tooth plate (46).
- Clean tooth plate with compressed air (wear goggles).
- If the tooth plate teeth are covered with heavy dirt, they must be carefully cleaned with the wire brush supplied or a sharp tool.
- Check tooth plate for worn teeth, if necessary replace tooth plate.

Installation
- Install the parts in reverse order.
- Secure sunk screw (47) with Loctite 222.

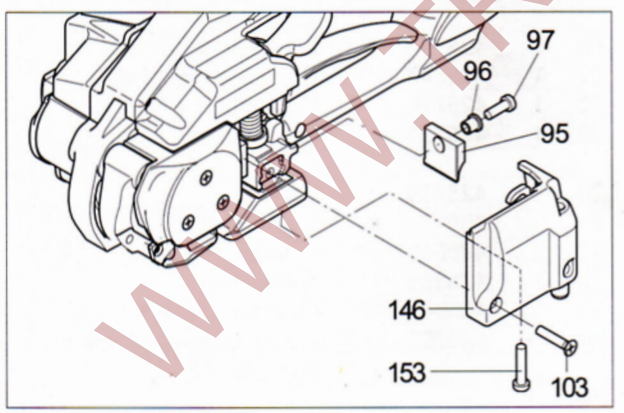

Fig. 22

7.3 REPLACING CUTTING KNIFE

Removal
- Release sunk screw (103) and cylinder screw (153) and remove cover (146).
- Release cylinder screw (97) and remove cutting knife (95) with flanged bushing (96). Replace cutting knife.

Installation
- Install the parts in reverse order.
- Before install cutting knife, check that the compressing spring on top of knife is still mounted.
- Secure screw (153), (103) and (97) with Loctite 222.

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8 RECOMMENDED SPARE PARTS

When ordering please indicate part number.

KEY	QTY	PART #	DESCRIPTION
38	1	425683	Tension wheel
46	1	425684	Tooth plate
95	1	425696	Cutter knife

8.1 PARTS LIST BXT

KEY	QTY	PART #	DESCRIPTION
1	1	425698	Base plate complete, incl. pos. 3-5
2			
3	2	425758	Slide bearing, Ø10/12 x 15
4	2	425759	Slide bearing, Ø12/14 x 8
5	1	425833	Cylinder pin, Ø10 h6 x 55
6			
7	1	425731	Tooth plate below
8	1	425715	Set screw
9			
10	1	425686	Bevel wheel with pinion
11			
12	1	425755	Ball bearing, Ø10/22 x 6
13	1	425739	Spacer ring
14	1	425742	Blocking wheel complete, incl. pos. 16
15			
16	1	425834	Free-wheel needle bearing, Ø10/14x22
17	1	425753	Ball bearing, Ø10/22 x 6
18	1	425835	Retaining ring, Ø10
19			
20	2	425836	Spacer disk, Ø36/48 x 0.5
21	1	425837	Internal gear ring
22	3	425838	Planetary wheel 1. Step
23	1	425737	Planetary support complete
24			
25			
26			
27	1	425756	Needle bushing, Ø10/14 x 15
28	1	425839	Spacer disk, Ø12/24 x 0.5
29			
30	1	425741	Flange complete, incl. pos. 33
31			
32			
33	1	425840	Cylinder pin, Ø4 m6 x 20
34	5	425841	Cylinder screw, M4x12
35	1	425743	Cam disk
36	2	425752	Ball bearing, Ø35/47 x 7
37	3	425685	Planetary wheel 2. Step
38	**1**	**425683**	**Tension wheel**
39			
40	1	425734	Rocker
41			
42			
43	1	425733	Strap stop, front, 13 mm
44			
45	6	425842	Counter sunk screw, M3 x 8
46	**1**	**425684**	**Tooth plate**
47	2	425843	Counter sunk screw, M4 x 6
48			
49	1	425690	Motor complete
50			
51			
52			
53	1	425740	Carrier
54	3	425751	Ball bearing, Ø15/24 x 5
55	1	425738	Tothed belt wheel complete, incl. pos. 57
56			
57	1	425844	Bushing, Ø6/10 x 12
58	1	425687	Bevel wheel complete, incl. pos. 60
59			
60	1	425845	Bushing, Ø6/10 x 15
61			
62			
63	1	425723	Bushing complete, incl. pos. 77
64			
77	1	425846	Ridget pin, Ø 3x8 DIN 1469
65	1	425757	Needle bushing, Ø12/16 x 10
66	1	425754	Ball bearing, Ø12/24 x 6
67	1	425847	Retaining ring, J Ø24
68	1	425716	Eccentric shaft
69	1	425721	Eccentric shaft
70	1	425719	Disk
71			
72	2	425848	Cylinder screw, M5 x 12
73	1	425688	Tothed belt
74	3	425849	Cylinder screw, M5 x 20
75	1	425722	Swivel bearing complete, incl. pos. 77
76			
77	1	425950	Ridget pin, Ø3x8 DIN 1469

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KEY	QTY	PART #	DESCRIPTION
78	1	425677	Tension spring
79	1	425951	Retaining ring, A Ø23
80	1	425952	Retaining ring, A Ø12
81	1	425720	Connecting rod
82	1	425717	Shaft
83	1	425750	Ball bearing, Ø9/24 x 7
84	1	425679	Washer
85	4	425953	Cylinder screw, M4x10
86	2	425954	Counter sunk screw, M3 x 6
87	1	425710	Welding shoe
88	1	425955	Oval head screw, M3 x 5
89	1	425718	Safety plate
90	2	425714	Ball bushing
91	1	425711	Cover plate
92			
93	1	425712	Tooth plate top
94	1	425672	Compression spring
95	**1**	**425696**	**Cutter knife**
96	1	425713	Flanged bushing
97	3	425956	Oval head screw, M4 x 12
98			
99			
100	1	425705	Cover tensioning
101			
102	1	425749	Strap guide, 13 mm
103	4	425957	Counter sunk screw, M4 x 16
104			
105			
106			
107			
108			
109	1	425735	Rocker lever complete, incl.pos.111-113
110			
111	1	425958	Threaded bolt, M8
112	1	425959	Ridget pin,Ø4 x 30
113	1	425960	Cylinder pin, Ø4 x 30
114	1	425732	Blocking paw
115	1	425681	Bolt
116	1	425736	Toothed segment
117	3	425961	Spacer disk, Ø10/16 x 0.5
118	1	425962	Retaining ring, Ø8
119	1	425963	Cylinder screw, M4x16
120	1	425682	Tension spring bolt
121	1	425678	Tension spring
122			
123	1	425964	Globule hardened, Ø8
124	1	425671	Compression spring
125	1	425965	Set screw, M10 x 8
126	1	425676	Compression spring
127	1	425724	Welding bouton
128	1	425730	Bolt
129			

KEY	QTY	PART #	DESCRIPTION
130	1	425729	Cam
131	1	425966	Set screw, M5 x 8
132	1	425692	Micro switch, welding
133	2	425967	Oval head screw, M2 x 10
134	4	425968	Counter sunk screw, M4 x 10
135	1	425725	Spring bow
136	1	425726	Roller
137	1	425727	Shaft
138	1	425728	Pressure bolt
139	1	425674	Spring
140	1	425969	Lock nut, M6
141	2	425970	Retaining ring, Ø4
142	1	425680	Shaft
143			
144			
145			
146	1	425704	Cover welding
147	1	425744	Strap guide, 13/16 mm
148	1	425747	Strap stop 13/16 mm
149	1	425745	Hook
150	1	425746	Threaded bolt
151	1	425748	Threaded bolt
152	1	425675	Compression spring
153	1	425971	Oval head screw, M4 x 25
154	1	425972	Oval head screw, M3 x 12
155	1	425699	Gear cover
156	4	425973	Oval head screw, M4 x 10
157			
158	1	425974	Housing part right, black
159			
160	1	425975	Housing part left, black
161			
162	8	425976	PT-Screw, KA 35x20
163			
164	1	425703	Protection cover
165			
166	1	425689	Switch button, red
167	1	425673	Compression spring
168	1	425691	Micro switch, tensioning
169			
170	1	425977	Motor cover complete, black
171	1	425694	Contact plate complete
172	1	425693	Printed circuit board digital
173	2	425978	PT-Screw, KA 30x10
174			
175			
176	1	425769	Battery 12V 2,4 Ah
177	1	425768	Charger AL60DV,1419,EU
177	1	425767	Charger AL60DV,1419, USA
177	1	425766	ChargerAL 60DV,1419, Japan
180	1	425979	Indication plate
181	1	425980	Indication plate
182			
183	1	425981	Name plate

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KEY	QTY	PART #	DESCRIPTION
184	1	425992	Name plate
	1	425982	**Tool-set**
190	1	425983	Screwdriver (Phillips)
191	1	425697	Wire brush
		425765	**Option: protection plate-set**
193	1	425984	Protection plate
194	4	425985	Counter sunk screw, M 5 x 8
		425764	**Option: suspension bow-set**
196	1	425986	Suspension bow
197	1	425987	Oval head screw, M5 x 10
198	1	425988	Oval head screw, M4 x 20
		425989	**Spare part-set: strap guide 13 mm**
43	1	425733	Strap stop, front, 13 mm
102	1	425749	Strap guide, 13 mm
47	2	425990	Counter sunk screw
			Spare part-set: housing parts
158	1	425991	Housing parts, black, incl. pos. 158/160

When ordering please indicate part number.

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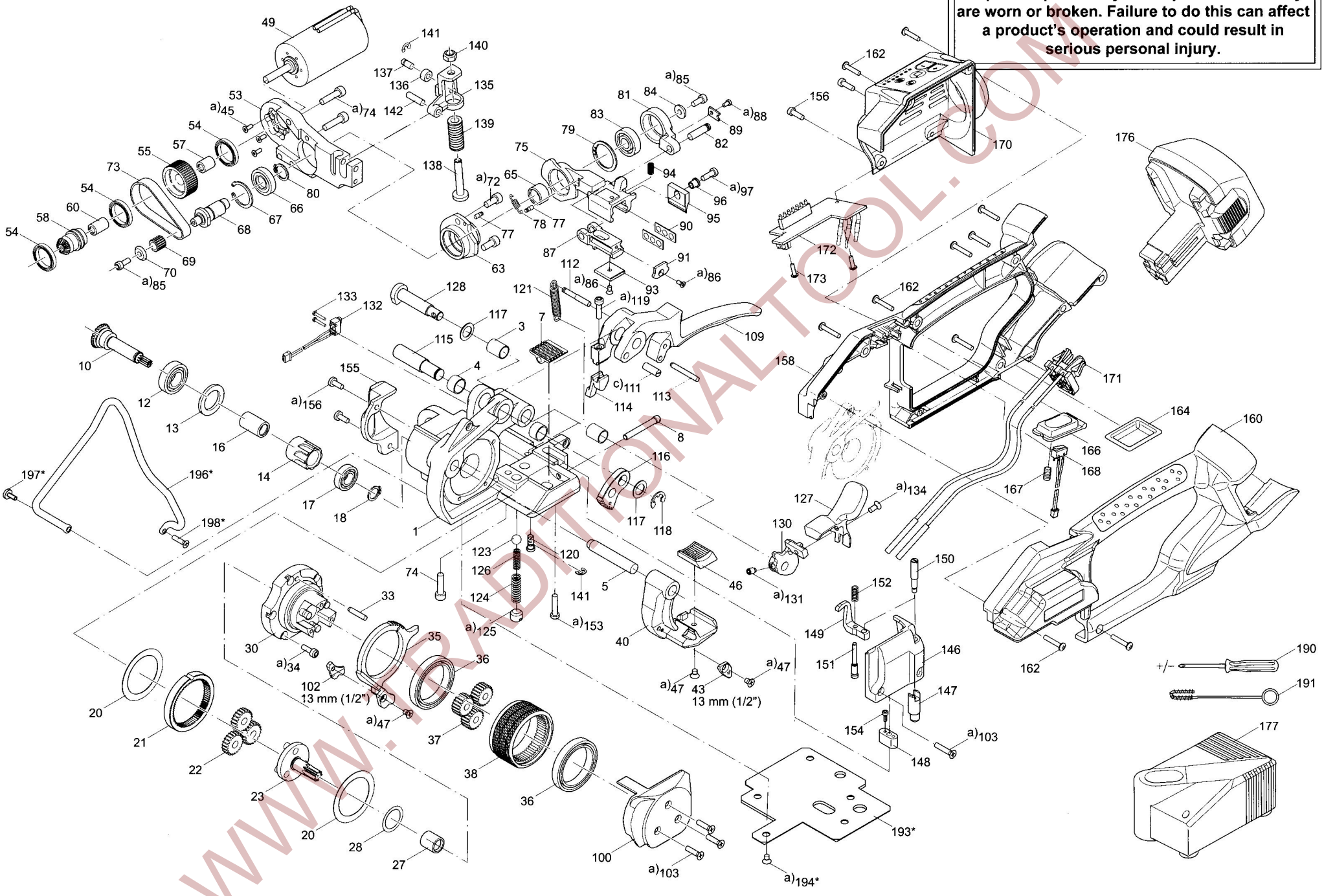
⚠WARNING

Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.



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a)Loctite 222 b)Loctite 243 c)Loctite 638 *Optionen/Options BXT 1832.002.017/1.1 02.04.04

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SIGNODE®

EU DECLARATION OF CONFORMITY

We take sole responsibility for declaring that the tool to which this declaration refers, is in full compliance with the current requirements of the guidelines laid down by the council on 22th June 1998 (98/37/EEC), "Machine Guidelines" and on 3th May 1989 (89/336/EEC), "EMV Guidelines".

Machine Description:	**BXT**
Machine Type:	**Battery-hand tool for plastic strapping**
Provisions with which machine complies:	**98/37/EEC, 89/336/EEC**
Harmonized Euro-Norms with which machine complies:	**EN 292-1, EN 292-2, EN 349, EN 1050, EN 50081-2, EN 50082-2, EN 55022, EN 50081-1**
Technical Standards with which machine complies:	**NA**

Signature:

Manager Sales & Marketing:

R. Kieffer

Manager Engineering:

M. Binder

Date: **1. December 2003**

SIGNODE ENGINEERED PRODUCTS

Hand Tool Division
3610 W. Lake Avenue,
Glenview, Illinois 60025

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