

OPERATION, PARTS AND **SAFETY** MANUAL



SIGNODE[®]

BXT 10

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

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1

TECHNICAL DATA

Weight	3.5 kg (7.7 lbs) (incl. battery)
Dimensions	Length 375 mm (14.7") Width 130 mm (5.1") Height 140 mm (5.5")
Strap tension	0–700 N (0–155 lbs)
Tension speed	330 mm/s (12.9"/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	Up to 300 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	9–11 mm ($\frac{3}{8}$ ") (PP, PET) 12–13 mm ($\frac{1}{2}$ ") (PP)
Strap thickness	0.5–0.8 mm (.019"–.031")

⚠ 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 disposed 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.

⚠ 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.

4

DESCRIPTION

4.1 MAJOR COMPONENTS

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

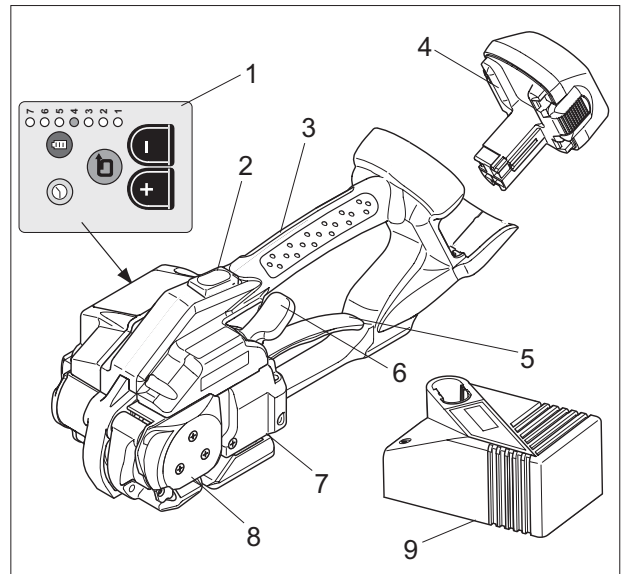


Fig. 1

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.

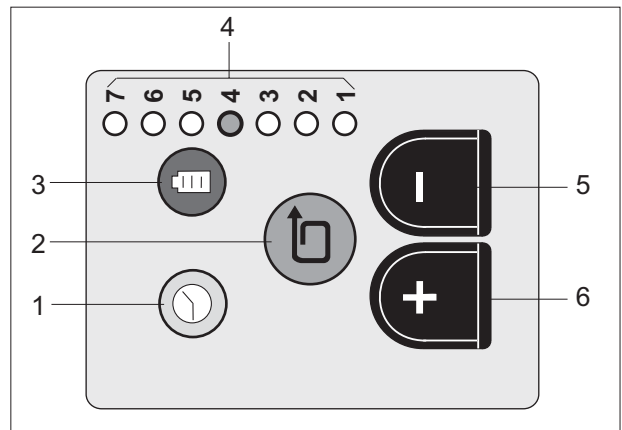


Fig. 2

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).

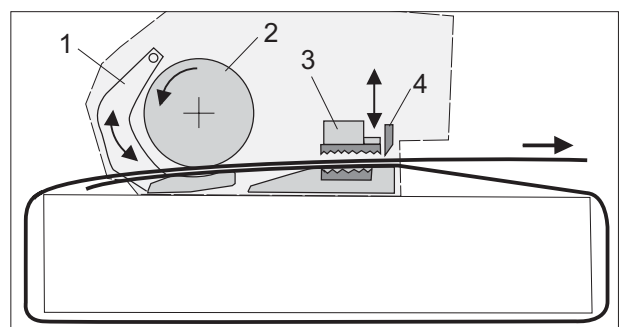


Fig. 3

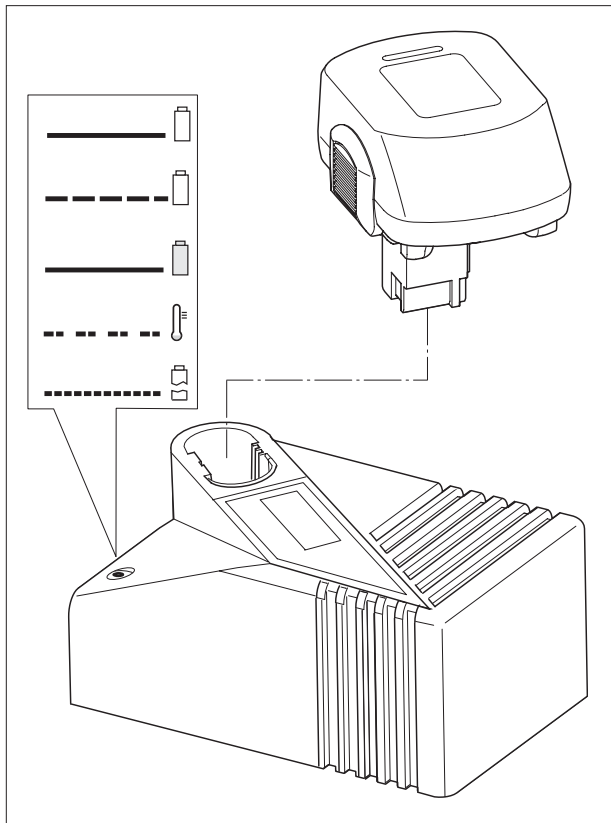







Fig. 4

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 is fully charged.
The battery charger is delivering only a trickle charge.
- 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.

5

INITIAL OPERATION

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.

Input 230 V 50/60 Hz / 44 W
Output 7.2-14.4 V \equiv 1.9 A

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.

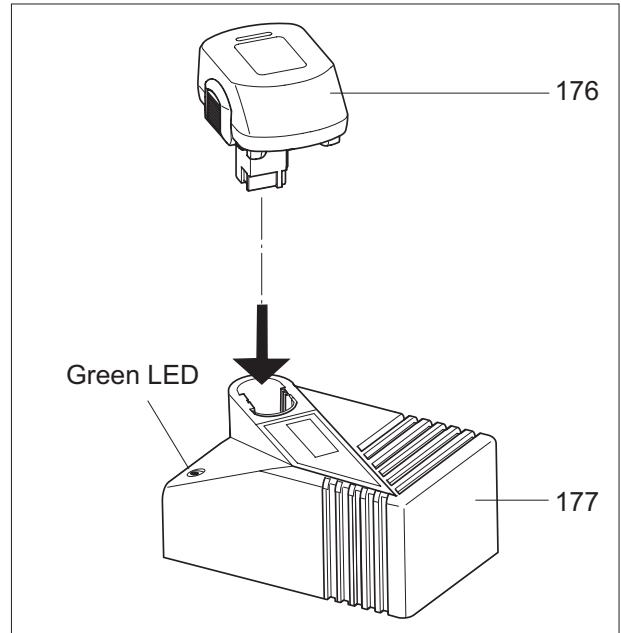


Fig. 6

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 temperature of the battery is between 15–40°C. Avoid charging the battery at temperatures below 0°C and above 40°C.

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.

⚠ WARNING

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

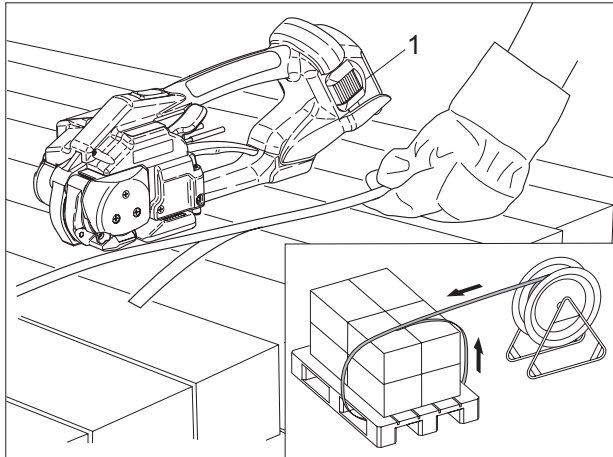


Fig. 7 Place strap around package

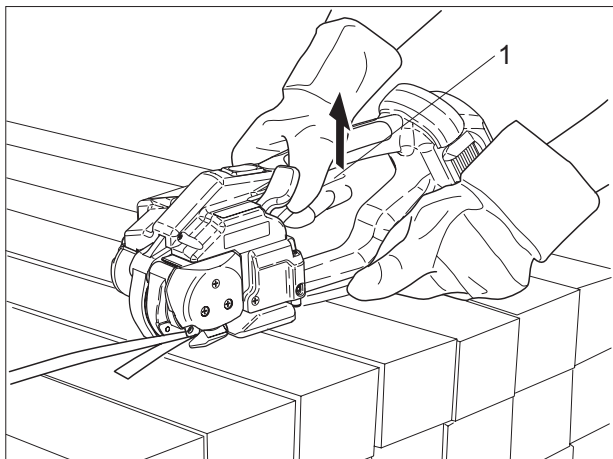


Fig. 8 Slide straps into tool

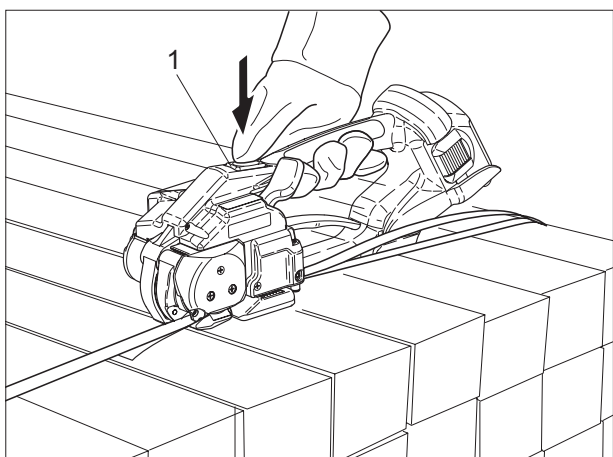


Fig. 9 Strap tensioning

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.

- 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.

- 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

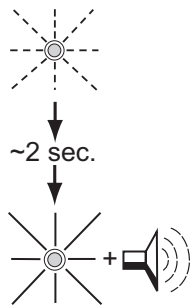
In order to release the strap tension after the tensioning process, lift rocker lever (8/1) against handle.

NOTE:

Tensioning – welding:

The welding may also be started before the strap has been tensioned. However, the tensioning button must be pressed **briefly** before welding.

- 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 tension button was not depressed.

- 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).

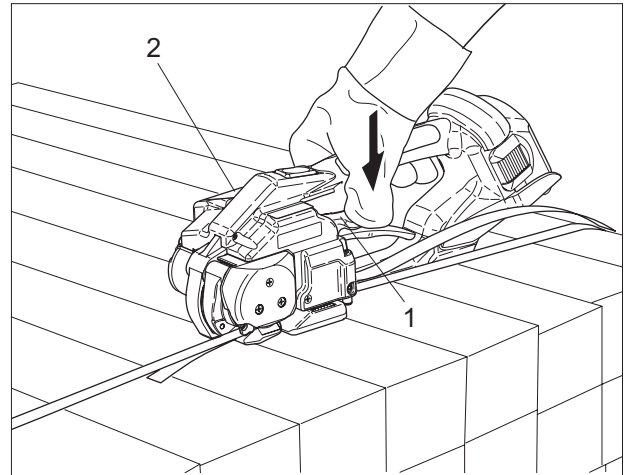


Fig. 10 Welding straps

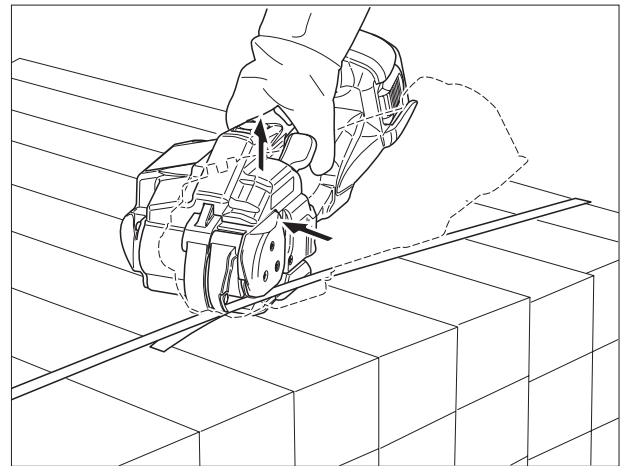


Fig. 11 Removing tool

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.

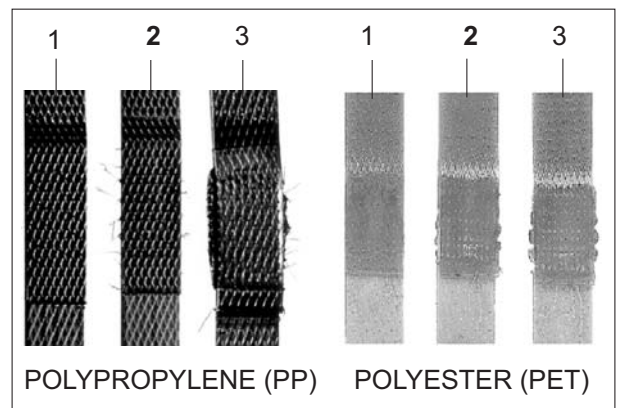


Fig. 12 Checking of seal



An incorrectly welded strapping cannot secure the package and can thus lead to injuries.

Never transport or move packaged goods with incorrectly welded seals.

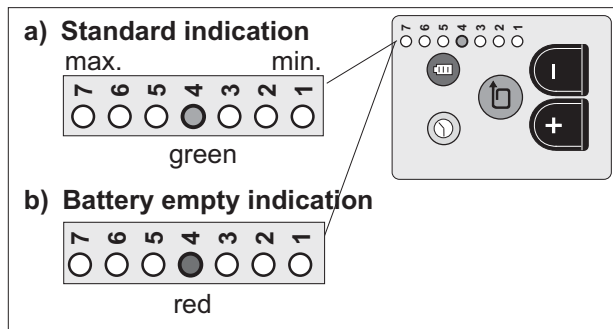


Fig. 13

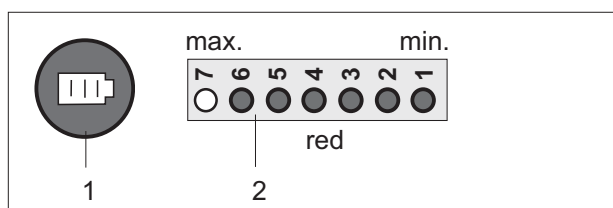


Fig. 14

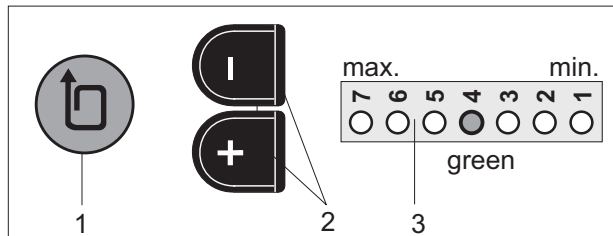


Fig. 15

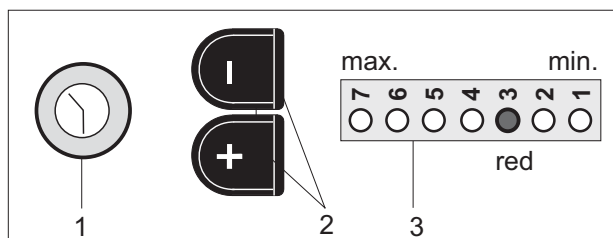


Fig. 16

6.3 OPERATING PANEL

a) Standard indication (green)

The current strap tension setting is monitored with inserted and charged battery.

- 1 = minimum strap tension (approx. 100 N) (22 lbs)
- 7 = maximum strap tension (approx. 700 N) (155 lbs)
- 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

- Depress battery push button (14/1) briefly. Read off battery charge on LED indicator (14/2).
 - 1 = empty battery
 - 1–3 = minimum charge (battery must be charged soon)
 - 1–5 = decreasing charge (charging possible)
 - 1–6 = good charge (charging would damage the battery)
 - 1–7 = maximum battery charge (charging would damage the battery)

6.3.2 SETTING STRAP TENSION

- 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. 100 N) (22 lbs)
 - 7 = maximum strap tension (approx. 700 N) (155 lbs)

6.3.3 SETTING WELDING TIME

- 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:

Cutting

The cutting of the strap is influenced by the welding time. If the tool cuts badly, extend the welding time by one interval.

6.4 SETTING STRAP WIDTH

NOTE:

The tool can be used with two different strap widths 9–11 mm ($\frac{3}{8}$ " or 12–13 mm ($\frac{1}{2}$ ").
Strap width 12–13 mm ($\frac{1}{2}$ " only for PP straps!

a) Change strap width from 9–11 mm to 12–13 mm

- Remove battery from tool.
- Release sunk screw (47) and remove strap stop 10 mm (43) (12–13 mm without strap stop).
- Lift the rocker lever towards the handle, release sunk screw (47) and remove strap guide 10 mm (104).
- Mount strap guide 13 mm (102). Secure sunk screw (47) with Loctite 222.

- Release sunk screw (103) and cylinder screw (153) and remove cover (146).
- Release cylinder screw (154) turn strap stop (18/2) 180° and remount it.
- Unscrew threaded bolt eight turns with screwdriver (190).
- Pull down strap guide (147) and turn it 180° until 13 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 12–13 mm to 9–11 mm

- Sequence as described under point a).
- Mount 10 mm strap stop (43) and secure sunk screw (47) with Loctite 222.
- Mount 10 mm strap guide (104) and secure sunk screw (47) with Loctite 222.
- Turn strap stop (148).
- Turn strap guide (147) until "10" indicator appears.

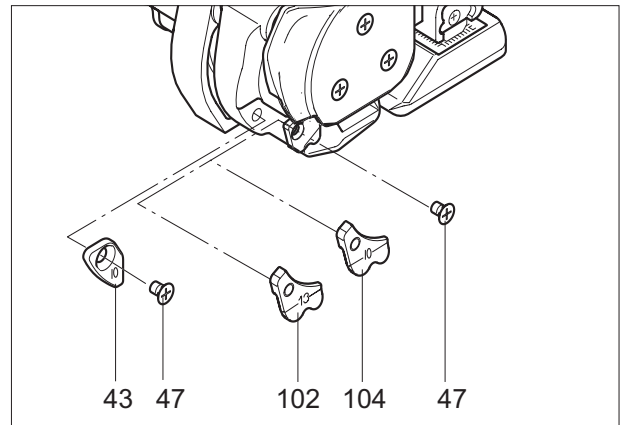


Fig. 17

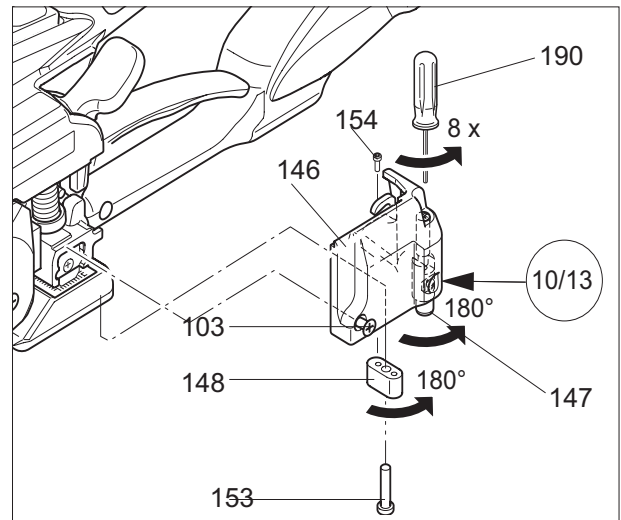


Fig. 18

7

PREVENTIVE AND CORRECTIVE MAINTENANCE

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

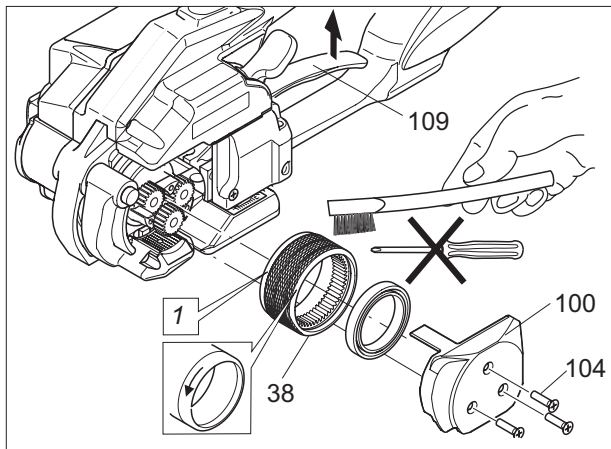


Fig. 19 (2 = Tension wheel type for BXT 10)



The tension wheel must not be cleaned while it is rotating. There is a risk breaking teeth!

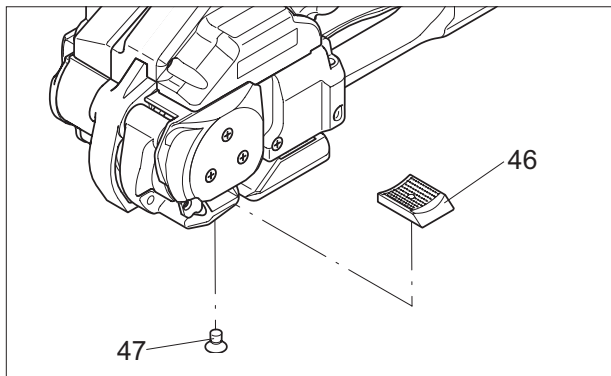


Fig. 20

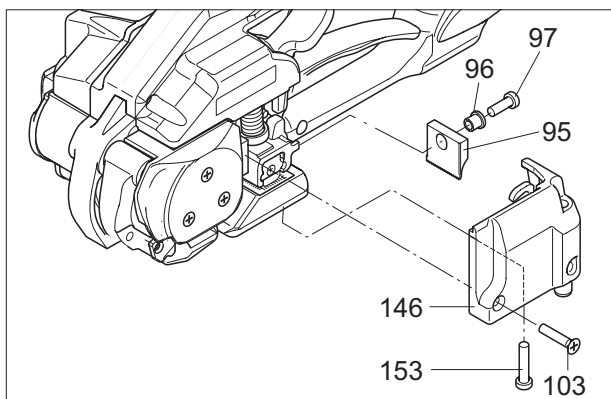


Fig. 21

7.1 CLEANING/REPLACING TENSION WHEEL

Removal

- Remove battery from tool.
- Release three sunk screws (104) and remove cover (100) with ball bearing.
- Lift rocker lever (109) and 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.
- Check tension wheel for worn teeth. If a few teeth are broken, replace tension wheel (observe rotating direction, see arrow).

Installation

- Install the parts in reverse order.
- Grease gear teeth of tension wheel **lightly** with Klüber grease GBU Y 131 (Microlube).
- When mounting tension wheel lift rocker lever.
- Secure sunk screw (104) with Loctite 222.

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.

7.3 REPLACING CUTTING KNIFE

Removal

- Remove battery from tool.
- 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.

8

RECOMMENDED SPARE PARTS

When ordering please indicate part number.

KEY	QTY	PART #	DESCRIPTION	KEY	QTY	PART #	DESCRIPTION
38	1	427508	Tension wheel				
46	1	427509	Tooth plate				
95	1	427510	Cutter knife				

8.1 PARTS LIST BXT

1	1	427511	Base plate complete, incl. pos. 3-5	41	1	427520	Stop
2				42	1	427521	Cylinder pin Ø4m6 x 10
3	2	425758	Slide bearing, Ø10/12 x 15	43	1	427522	Strap stop, front, 10 mm
4	2	425759	Slide bearing, Ø12/14 x 8	44			
5	1	427512	Cylinder pin, Ø8 h6 x 55	45	6	425842	Counter sunk screw, M3 x 8
6				46	1	427509	Tooth plate
7	1	425731	Tooth plate below	47	2	426809	Counter sunk screw, M4 x 6
8	1	425715	Set screw	48			
9				49	1	427524	Motor compl.
10	1	425686	Bevel wheel with pinion	50			
11				51			
12	1	425755	Ball bearing, Ø10/22 x 6	52			
13	1	425739	Spacer ring	53	1	427525	Carrier
14	1	427513	Blocking wheel complete, incl. pos. 16	54	3	425751	Ball bearing, Ø15/24 x 5
15				55	1	427526	Tothed belt wheel complete, incl. pos. 54, 57
16	1	427405	Needle bushing, Ø10/14x10	56			
17	1	423759	Free-wheel needle bearing, Ø10/14x10	57	1	425844	Bushing, Ø6/10 x 12
18	1	425753	Ball bearing, Ø10/14 x 12	58	1	425687	Bevel wheel complete, incl. pos. 54, 60
19	1	426482	Retaining ring, Ø10	59			
20	2	427514	Spacer disk, Ø10/22 x 0.5	60	1	425845	Bushing, Ø6/10 x 15
21				61			
22	3	427515	Planetary wheel 1. Step	62			
23	1	425737	Planetary support complete	63	1	426201	Bushing complete, incl. pos. 77
24				64			
25				77	1	425846	Ridget pin, Ø 3x8 DIN 1469
26				65	1	426202	Needle bushing, Ø12/18 x 12
27	1	425756	Needle bushing, Ø10/14 x 15	66	1	425754	Ball bearing, Ø12/24 x 6
28	1	425839	Spacer disk, Ø12/24 x 0.5	67	1	425847	Retaining ring, J Ø24
29				68	1	426203	Eccentric shaft
30	1	427516	Flange complete,	69	1	427527	Pinion
31				70	1	427528	Disk
32				71			
33				72	2	427529	Cylinder screw, M5 x 12
34	5	427517	Cylinder screw, M4x12	73	1	425688	Tothed belt
35	1	425743	Cam disk	74	3	427530	Cylinder screw, M5 x 20
36	2	426808	Ball bearing, Ø35/47 x 7	75	1	425722	Swivel bearing complete, incl. pos. 77
37	3	425685	Planetary wheel 2. Step	76			
38	1	427508	Tension wheel	77	1	425950	Ridget pin, Ø3x8 DIN 1469
39				78	1	425677	Tension spring
40	1	427519	Rocker				

Bold = Recommended spare parts

<u>KEY</u>	<u>QTY</u>	<u>PART #</u>	<u>DESCRIPTION</u>
79	1	425951	Retaining ring, A Ø23
80	1	425952	Retaining ring, A Ø12
81	1	426772	Connecting rod
82	1	426773	Shaft
83	1	426813	Ball bearing, Ø9/26 x 8
84	1	425679	Washer
85	2	427521	Cylinder screw, M4x10
86	2	427532	Counter sunk screw, M3 x 8
87	1	426776	Welding shoe
88	1	427533	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	427534	Compression spring
95	1	427510	Cutter knife
96	1	425713	Flanged bushing
97	1	426777	Welding shoe complete, incl. pos. 81,82,83,87,88,89
98			
99			
100	1	427536	Cover tensioning
101			
102	1	425749	Strap guide, 13 mm
103	1	426816	Counter sunk screw, M4 x 16
104	1	427537	Strap guide, 10 mm
105	3	427538	Counter sunk screw, M4 x 12
106			
107			
108			
109	1	427539	Rocker lever complete, incl.pos.111-113
110			
111	1	427540	Bolt, Ø8/h9
112	1	427541	Pin, Ø4/h9 x 32.5
113	1	427542	Pin, Ø4/h9 x 30
114	1	427543	Blocking paw
115	1	427544	Bolt
116	1	425736	Toothed segment
117	2	425961	Spacer disk, Ø10/16 x 0.5
118	1	427545	Retaining ring, Ø8
119	1	427546	Cylinder screw, M4x25
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	426818	Threaded bolt, M10
126	1	427547	Cam bolt complete, incl. pos. 128,129,143
127	1	426819	Welding bouton-set,incl. 156
128			
129			

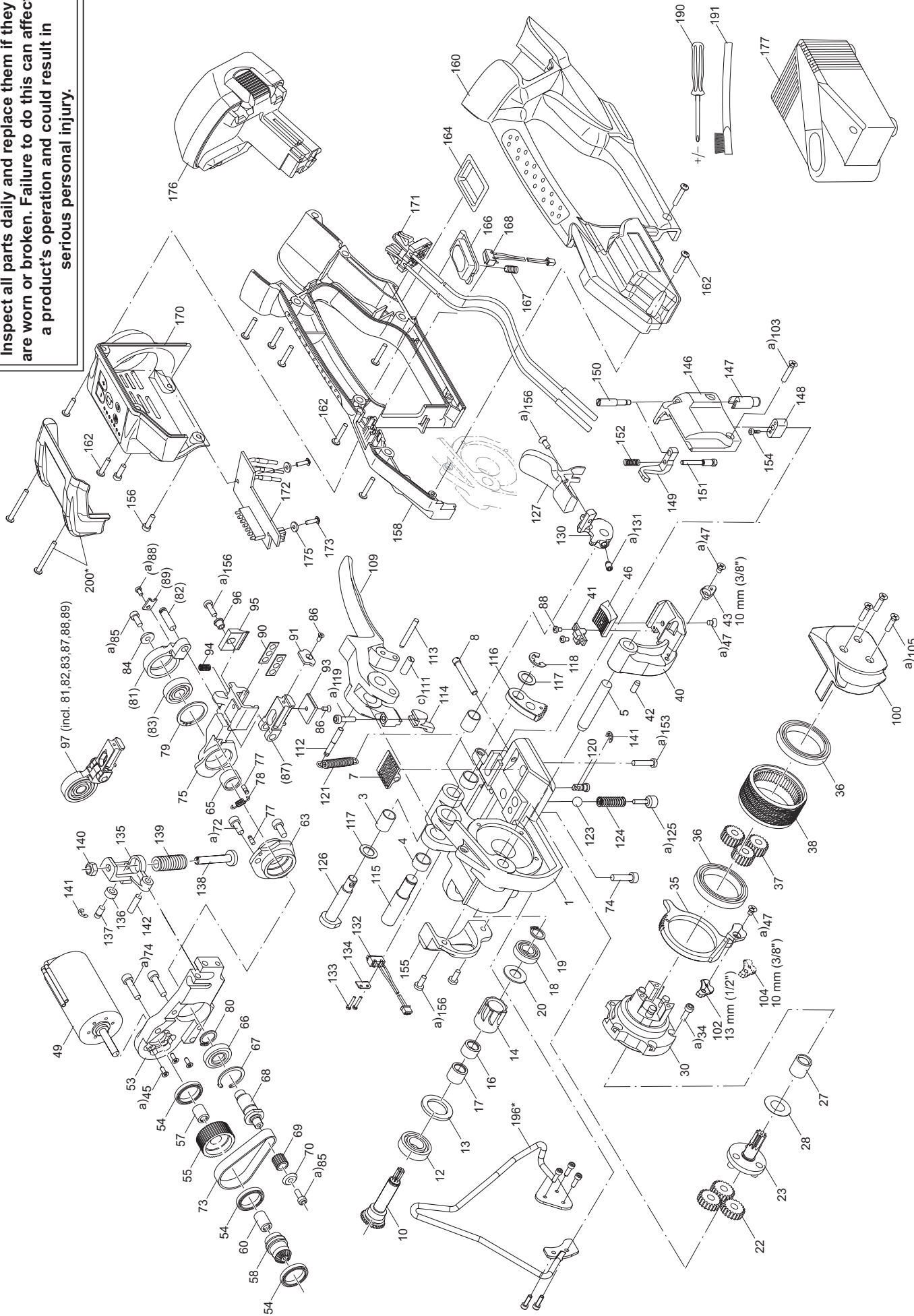
<u>KEY</u>	<u>QTY</u>	<u>PART #</u>	<u>DESCRIPTION</u>
130	1	425729	Cam
131	1	427548	Set screw, M5 x 8
132	1	425692	Micro switch, welding
133	2	427549	Oval head screw, M2 x 10
134	1	427550	Shim plate
135	1	425725	Spring bow
136	1	425726	Roller
137	1	425727	Shaft
138	1	425728	Pressure bolt
139	1	425674	Spring
140	1	427557	Lock nut, M6
141	2	425970	Retaining ring, Ø4
142	1	425680	Shaft
143			
144			
145			
146	1	427552	Cover welding
147	1	427553	Strap guide, 10/13 mm
148	1	427554	Strap stop 10/13 mm
149	1	427555	Hook
150	1	425746	Threaded bolt
151	1	425748	Pin screw
152	1	425675	Compression spring
153	1	427556	PT-Screw, KA 35x25
154	1	427557	PT-Screw, KA 30x14
155	1	427558	Gear cover
156	6	426823	Oval head screw, M4 x 10
157			
158	1	427559	Housing part right, black
159			
160	1	427560	Housing part left, black
161			
162	10	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	427575	Printed circuit board digital
173	2	425978	PT-Screw, KA 30x10
174			
175	2		Washer, M 3
176	1	425769	Battery 12V 2,4 Ah
177	1	427561	Charger AL60DV, 1419,EU
177	1	425767	Charger AL60DV, 1419, USA
177	1	427562	ChargerAL 60DV, 1419, Japan
180			
181	1	427564	Indication plate
182	1	427565	Indication plate
183	1	427566	Name plate

Bold = Recommended spare parts

KEY	QTY	PART #	DESCRIPTION
184	1	427567	Name plate
185	1	427568	Indication plate
186	1	427569	Indication 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	426824	Counter sunk screw, M 5 x 8
196		425764	Option: suspension bow-set
200		427570	Option: protection cover-set
		427571	Spare part-set: strap guide 10/13 mm
43	1	427522	Strap stop, front, 10 mm
102	1	425749	Strap guide, 13 mm
104	1	427537	Strap guide, 10 mm
47	2	426809	Counter sunk screw
			Spare part-set: housing parts
	1	425991	Housing parts, black, incl. pos. 158/160

When ordering please indicate part number.

⚠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.



a) Loctite 222 b) Loctite 243 c) Loctite 638 *Optionen/Options



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 10

Machine Type: Battery-hand tool for plastic strapping


Provisions with which machine complies: 98/37/EEC, 73/23/EEC, 89/336/EEC

Harmonized Euro-Norms with which machine complies: EN ISO 12100-1, EN ISO 12100-2, EN 349, EN 1050, EN 61000-6-1, EN 61000-6-3

Technical Standards with which machine complies: NA

Signature: Sales Manager Packaging Technology: General Manager Products Packaging Technology:


R. Kieffer


M. Binder

Date: 11.10.2005

SIGNODE ENGINEERED PRODUCTS

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

SIGNODE NEW TOOL WARRANTY

Signode Engineered Products Warrants that a new Signode strapping tool will operate per functional specifications for a period of sixty (60) days after the date of shipment to the owner's place of business. Normal wearing parts, as outlined in the Operation, Parts & Safety manual, are covered by a thirty (30) day warranty unless, in Signode's judgement, these parts have been subjected to abnormal or extreme usage. Signode's sole liability hereunder will be to repair or replace, without charge, F.O.B. Signode's Glenview, Illinois plant, any tool which proves to not operate per functional specifications within the stated period. Signode reserves the right to replace any tool which proves not to operate per functional specifications with a new or like-new tool of the same model if in Signode's judgement such replacement is appropriate.

Any new replacement tool provided to an owner will carry a full sixty (60) day warranty. Any warranty repaired tool or like-new replacement tool will carry a warranty for the balance of the time remaining on the initial sixty (60) day warranty. This warranty will be extended to compensate for the time the tool is in Signode's possession for warranty repairs.

This warranty is void as to any tool which has been: (I) subjected to mis-use, misapplication, accident, damage, or repaired with other than genuine Signode replacement parts, (II) improperly maintained, or adjusted, or damaged in transit or handling; (III) used with improperly filtered, unlubricated air or improper strapping material, (IV) in Signode's opinion, altered or repaired in a way that affects or detracts from the performance of the tool.

SIGNODE MAKES NO WARRANTY, EXPRESSED OR IMPLIED, RELATING TO MERCHANTABILITY, FITNESS OR OTHERWISE EXCEPT AS STATED ABOVE AND SIGNODE'S LIABILITY AS ASSUMED ABOVE IS IN LIEU OF ALL OTHERS ARISING OUT OF OR IN CONNECTION WITH THE USE AND PERFORMANCE OF THE TOOL. IT IS EXPRESSLY UNDERSTOOD THAT SIGNODE SHALL IN NO EVENT BE LIABLE FOR ANY INDIRECT OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES WHICH MAY ARISE FROM LOSS OF ANTICIPATED PROFITS OR PRODUCTION, SPOILAGE OF MATERIALS, INCREASED COSTS OF OPERATION OR OTHERWISE.

Considerable effort has been made to ensure that this product conforms to our high quality standards. However, should you experience any difficulties, please contact your Sales Representative providing samples and the manufacturing code specified on the tool.

Thank you for your help.

SIGNODE ENGINEERED PRODUCTS
Hand Tool Division
3620 W. Lake Avenue, Glenview, Illinois 60025

PART #	DESCRIPTION	AREA OF USE
LUBRICANTS		
008556	LS-1236 AIR LINE OIL	AIR MOTORS, AIR VALVES
422792	WHITE LUBRIPLATE GR-132 GREASE	PNEUMATIC PARTS, AIR CYLINDERS, AIR VALVES, O-RINGS
422793	BLACK LUBRIPLATE 3000W GREASE	MOVING EXTERNAL PARTS, JAWS, LINKS
425239	RED MOBILITH SHC 007 GREASE	INTERNAL GEARS
432322	EP ACCROLUBE GREASE	HIGH FRICTION CONTACT PARTS
ADHESIVES		
274111	LOCTITE #380 BLACK MAX	PERMANENT, FLAT SURFACE PART CONTACT
422794	LOCTITE #222 PURPLE	LOW STRENGTH, SCREWS 1/4" (6MM) OR SMALLER SIZES
422795	LOCTITE #242 BLUE	MEDIUM STRENGTH SCREWS 5/16" (8MM) OR LARGER SIZES
422796	LOCTITE #271 RED	HIGH STRENGTH, SEMI-PERMANENT SCREWS APPLICATION
422797	LOCTITE #609 GREEN	PERMANENT, CURVED SURFACE PART CONTACT
CLEANING BRUSHES		
023963	SMALL BRUSH	FEEDWHEEL & GRIPPER TEETH
269589	LARGE BRUSH	FEEDWHEEL & GRIPPER TEETH