

**THE CLIP
THAT GRIPS™**

KODI KLIP™

BATTERY KLIPPER TOOL (KTB)
MODELS KTB - 4/5 & 5/6

**INSTRUCTION AND
SAFETY MANUAL**

KTB4/5 (ITEM #'s 101819, 101920 & 101921)
KTB5/6 (ITEM #'s 101900, 101924 & 101925)



KODI KLIP™
By Dayton Superior

⚠ DANGER

Improper use of this Tool can result in death or serious injury! This Manual contains important information about product safety. Read and understand this Manual before operating the Tool. Never allow anyone who has not reviewed this manual.

IMPORTANT INFORMATION



Read and understand Tool labels and all the operating instructions, safety precautions and warnings in this manual before operating or maintaining this Tool. Failure to follow warnings could result in DEATH or SERIOUS INJURY.

Most accidents that result from the operation and maintenance of Tool are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures.

Basic safety precautions are outlined in the “SAFETY” section of this Manual and in the sections, which contain the operation and maintenance instructions.

Hazards that must be avoided to prevent bodily injury or machine damage are identified by DANGERS and WARNINGS on the Tool and in this Manual.

The Kodi Klip Battery Tools (referred to as Tool(s) in this manual) install Kodi K-Klips (referred to as Klip(s) in this manual) manufactured by Dayton Superior Corporation (DSC)

NEVER use this Tool for applications other than those specified in this Manual.

DEFINITIONS OF SIGNAL WORDS

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or may cause machine damage.

NOTE emphasizes essential information.

EXPLANATION OF THE CLIPPING ACTION OF THE KODI KLIP BATTERY TOOL

○ FULL SEQUENTIAL ACTUATION MECHANISM:

First, press the nozzle tip directly over the rebar, ensuring the Klip magazine is parallel to the top rebar- this will depress the safety actuator arm; next, pull the trigger to drive the Klip. Follow the same sequence to continue driving Klips.

○ CONTACT ACTUATION MECHANISM:

First, pull the trigger; next, press the nozzle tip directly over the rebar, ensuring the Klip magazine is parallel to the top rebar – this will depress the safety actuator arm; if the trigger is held back, a Klip will be driven each time the nozzle tip is pressed onto a piece of rebar within a 2 second interval of each depression of the actuator.

SAFETY

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power Tool” in the warnings refers to your battery-operated (cordless) power Tool.

1) Work area safety

a) Keep work area clean and well lit.

Cluttered or dark areas invite accidents.

b) Do not operate power Tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Power Tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power Tool.

Distractions can cause you to lose control.

2) Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power Tool. Do not use a power Tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of inattention while operating power Tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection.

Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the Tool.

Carrying power Tools with your finger on the switch or energizing power Tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power Tool on.

A wrench or a key left attached to a rotating part of the power Tool may result in personal injury.

e) Do not overreach. Always keep proper footing and balance.

This enables better control of the power Tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.

Loose clothes, jewelry or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.

Use of dust collection can reduce dust-related hazards.

SAFETY — Continued**3) Tool use and care**

- a) **Do not use the Tool in incorrect applications. Use the correct power Tool for your application.**

The correct power Tool will do the job better and safer at the rate for which it was designed.

- b) **Do not use the power Tool if the switch does not turn it on and off.**

Any power Tool that cannot be controlled with the switch is dangerous and must be repaired.

- c) **Disconnect the plug from the power source and/or the battery pack from the power Tool before making any adjustments, changing accessories, or storing power Tools.**

Such preventive safety measures reduce the risk of starting the power Tool accidentally.

- d) **Store idle power Tools out of the reach of children and do not allow persons unfamiliar with the power Tool or these instructions to operate the power Tool.**

Power Tools are dangerous in the hands of untrained users.

- e) **Maintain power Tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power Tool's operation. If damaged, have the power Tool repaired before use.**

Many accidents are caused by poorly maintained power Tools.

- f) **Use the power Tool, accessories and Tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.**

Use of the power Tool for operations different from those intended could result in a hazardous situation.

4) Battery Tool use and care

- a) **Recharge only with the charger specified by the manufacturer.**

A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

- b) **Use power Tools only with specifically designated battery packs.**

Use of any other battery packs may create a risk of injury and fire.

- c) **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, Klips, screws, or other small metal objects, that can make a connection from one terminal to another.**

Shorting the battery terminals together may cause burns or a fire.

- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.**

Liquid ejected from the battery may cause irritation or burns.

5) Service

- a) **Have your power Tool serviced by a qualified repair person using only identical replacement parts.**

This will ensure that the safety of the power Tool is maintained.

– WARNING –

To reduce the risk of injury, user must read instruction manual.

SAFETY — Continued**TOOL SAFETY WARNINGS****⚠ WARNING**

- Always assume that the Tool contains Klips. Careless handling of the Tool can result in unexpected firing of Klips and personal injury.
- Do not point the Tool towards yourself or anyone nearby. Unexpected triggering will discharge the Klip causing an injury.
- Do not actuate the Tool unless the Tool is placed firmly against the workpiece. If the Tool is not in contact with the rebar, the Klip may be deflected away from your target.
- Disconnect the Tool from the power source when the Klip jams in the Tool. While removing a jammed Klip, the Tool may be accidentally activated if battery is plugged in.
- Use caution while removing a jammed Klip. The mechanism may be under compression and the Klip may be forcefully discharged while attempting to free a jammed condition.

IMPORTANT SAFETY INSTRUCTIONS FOR USING THE KTB TOOLS**READ ALL INSTRUCTIONS****⚠ DANGER****1. OPERATORS AND OTHERS IN WORK AREA MUST WEAR SAFETY GLASSES WITH SIDE SHIELDS.**

When operating the Tool, always wear safety glasses with side shields, and make sure others in work area wear safety glasses, too.

Safety glasses must conform to the requirements of American National Standards Institute, ANSI Z87.1 and provide protection against flying particles both from the front and side.

The employer must enforce the use of safety glasses by the Tool operator and others in work area.

⚠ WARNING**2. NEVER POINT TOOL AT YOURSELF OR OTHERS IN WORK AREA.**

Always assume the Tool contains Klips. Never point the Tool at yourself toward yourself or others, whether it contains Klips or not. If Klips are mistakenly driven, it can lead to severe injuries. Never engage in horseplay with the Tool. Respect the Tool as a working implement.

3. KEEP FINGERS AWAY FROM TRIGGER WHEN NOT DRIVING KLIPS TO AVOID ACCIDENTAL FIRING.

Never carry the Tool with finger on trigger since you could drive a Klip unintentionally and injure yourself or someone else. Always carry the Tool by the handle only.

4. CHOICE OF TRIGGERING METHOD IS IMPORTANT.

Read and understand section titled “Methods of operation.”

SAFETY — Continued

- 5. ALWAYS WEAR EAR AND HEAD PROTECTION.**
Always wear ear protection to protect your ears from loud noise.
Always wear head protection to protect your head from flying objects.
- 6. OPERATE WITHIN PROPER TEMPERATURE RANGE.**
The operating environment for this device is between 32°F (0°C) and 104°F (40°C) so ensure use within this temperature range.
The device may fail to operate below 32°F (0°C) or above 104°F (40°C).
- 7. STORE TOOL PROPERLY, AND BATTERY REMOVED.**
When not in use, the Tool, battery and battery charger should be stored in a dry place. Keep out of reach of children. Lock the storage area.
- 8. KEEP WORK AREA CLEAN.**
Cluttered areas invite injuries. Clear all work areas of unnecessary Tools, debris, furniture, etc.
- 9. KEEP VISITORS AWAY.**
Do not let visitors handle the Tool.
All visitors should be kept safely away from work area.
- 10. DRESS PROPERLY.**
Do not wear loose clothing or jewelry as they can be caught in moving parts.
Rubber gloves and nonskid footwear are recommended when working outdoors.
Wear protective hair covering to contain long hair.
- 11. CHECK SAFETY ACTUATOR ARM BEFORE USE.**
Make sure the safety actuator operates properly. (The safety actuator may be called "Safety".) Never use the Tool unless the safety actuator is operating properly, otherwise the Tool could drive a Klip unexpectedly. Do not tamper with or remove the safety actuator, otherwise the safety actuator becomes inoperable.
- 12. KEEP ALL SCREWS AND COVERS TIGHTLY IN PLACE.**
Keep all screws and covers tightly mounted. Check their condition periodically.
Never use the Tool if parts are missing or damaged.
- 13. DO NOT LOAD KLIPS WITH TRIGGER OR SAFETY ACTUATOR DEPRESSED.**
When loading Klips into the Tool,
 - 1) do not depress the trigger;
 - 2) do not depress the safety actuator; and
 - 3) keep the Tool pointed downward.
- 14. KEEP FACE, HANDS AND FEET AWAY FROM FIRING HEAD DURING USE.**
Never place your face, hands or feet closer than 8 inches (200 mm) from the firing head.
A serious injury can result if the Klips are deflected by the rebar or are driven away from the point of entry.
- 15. BEFORE STARTING WORK, CHECK THE FASTENING OPERATION SWITCHING DEVICE.**
This Tool includes a fastening operation switching device.
Before starting work, check the setting of the operation switching device.
If the switching device is not set properly, the Tool will not operate correctly.
- 16. BE CAREFUL OF DOUBLE FIRE DUE TO RECOIL.**
If the safety actuator is unintentionally allowed to re- contact the rebar following recoil, an unwanted Klip will be driven.
In order to avoid this undesirable double fire,
 - Intermittent operation (Trigger firing)
 - 1) Set the switching device to FULL SEQUENTIAL ACTUATION MECHANISM.
 - 2) Pull the trigger rapidly and firmly.
 - Continuous operation (Safety actuator firing)
 - 1) Do not press the Tool against the rebar with excessive force.
 - 2) Separate the Tool from the rebar as it recoils after fastening.
- 17. DO NOT OVERREACH.**
Always keep proper footing and balance.

SAFETY — Continued**18. NEVER USE TOOL WHICH IS DEFECTIVE OR OPERATING ABNORMALLY.**

If the Tool appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by DSC.

19. REMOVE ALL REMAINING KLIPS AND BATTERY FROM TOOL WHEN:

- 1) doing maintenance and inspection;
- 2) checking proper operation of safety actuator and trigger;
- 3) attaching or removing the nose cap;
- 4) clearing a jam;
- 5) it is not in use;
- 6) leaving work area;
- 7) moving it to another location; and
- 8) handing it to another person.

Never attempt to clear a jam or repair the Tool unless you have removed battery and all remaining Klips from the Tool.

The Tool should never be left unattended since people who are not familiar with the Tool might handle it and injure themselves.

20. LOCK TRIGGER WHEN LOADING KLIPS**21. STAY ALERT.**

Watch what you are doing. Use common sense. Do not operate the Tool when you are tired. The Tool should never be used by you if you are under the influence of alcohol, drugs or medication that makes you drowsy.

22. HANDLE TOOL CORRECTLY.

Operate the Tool according to this Manual. Never allow the Tool to be operated by children, individuals unfamiliar with its operation or unauthorized personnel.

23. NEVER USE TOOL FOR APPLICATIONS OTHER THAN THOSE SPECIFIED IN THIS MANUAL.**24. HANDLE TOOL CAREFULLY.**

Do not drop the Tool or strike the Tool against hard surfaces; and do not scratch or engrave signs on the Tool. Handle the Tool carefully.

25. MAINTAIN TOOL WITH CARE.

Keep the Tool clean and lubricated for better and safer performance.

26. USE ONLY PARTS, ACCESSORIES OR KLIPS SUPPLIED BY DSC

Unauthorized parts, accessories, or Klips may void any applicable warranty and can lead to malfunction and resulting injuries.

Only service personnel trained by DSC distributor or employer shall repair the Tool.

27. NEVER MODIFY OR ALTER A TOOL.

Doing so may cause it to malfunction and personal injuries may result.

28. NEVER allow magnets (or similar magnetic devices) to be adjacent to the Tool, because the Tool has a magnetic sensor inside.

Doing so will cause a failure or risk of injury by malfunction.

IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CHARGER**⚠ WARNING**

Death or serious bodily injury could result from improper or unsafe use of battery chargers.

To avoid these risks, follow these basic safety instructions:

READ ALL INSTRUCTIONS

1. This manual contains important safety and operating instructions for battery charger Model UC18YFSL.
2. Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
3. To reduce risk of injury, charge Metabo HPT rechargeable battery type BSL18 series. Other type of batteries may burst causing personal injury and damage.
4. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
5. To reduce risk of damage to electric plug and cord, pull by plug when disconnecting battery charger.
6. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
7. An extension cord should not be used unless necessary. Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used make sure:
 - a. That blades of extension cord are the same number, size, and shape as those of plug on battery charger;

SAFETY — Continued

- b. That extension cord is properly wired and in good electrical condition; and
- c. That wire size is large enough for AC ampere rating of battery charger as specified in Table 1.

Table 1

RECOMMENDED MINIMUM AWG SIZE FOR EXTENSION CORDS FOR BATTERY CHARGERS

AC Input Rating Amperes*		AWG Size of Cord			
Equal to or greater than	but less than	Length of Cord, Feet (Meter)			
		25 (7.5)	50 (15)	100 (30)	150 (45)
0	2	18	18	18	16
2	3	18	18	16	14
3	4	18	18	16	14

* If the input rating of a battery charger is given in watts rather than in amperes, the corresponding ampere rating is to be determined by dividing the wattage rating by the voltage rating—for example:

$$\frac{1,250 \text{ watts}}{125 \text{ volts}} = 10 \text{ amperes}$$

- 8. Do not operate battery charger with damaged cord or plug—replace them immediately.
- 9. Do not operate battery charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
- 10. Do not disassemble battery charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- 11. To reduce risk of electric shock, unplug charger from receptacle before attempting any maintenance or cleaning. Removing the battery will not reduce this risk.

IMPORTANT SAFETY INSTRUCTIONS FOR USE OF THE BATTERY AND BATTERY CHARGER

You must charge the battery before you can use the power Tool. Before using the model UC18YFSL battery charger, be sure to read all instructions and cautionary statements on it, the battery and in this manual.

REMEMBER: USE ONLY METABO HPT BATTERY TYPES BSL18 SERIES. OTHER TYPES OF BATTERIES MAY BURST AND CAUSE INJURY!

Follow these instructions to avoid the risk of injury:

⚠ WARNING

Improper use of the battery or battery charger can lead to serious injury. To avoid these injuries:

- 1. **NEVER** disassemble the battery.
- 2. **NEVER** incinerate the battery, even if it is damaged or is completely worn out. The battery can explode in a fire.
- 3. **NEVER** short-circuit the battery.
- 4. **NEVER** insert any objects into the battery charger's air vents. Electric shock or damage to the battery charger may result.
- 5. **NEVER** charge outdoors. Keep the battery away from direct sunlight and use only where there is low humidity and good ventilation.
- 6. **NEVER** charge when the temperature is below 32°F (0°C) or above 104°F (40°C).
- 7. **NEVER** connect two battery chargers together.
- 8. **NEVER** insert foreign objects into the hole for the battery or the battery charger.
- 9. **NEVER** use a booster transformer when charging.
- 10. **NEVER** use an engine generator or DC power to charge.
- 11. **NEVER** store the battery or battery charger in places where the temperature may reach or exceed 104°F (40°C) such as inside metal box or car.
- 12. **NEVER** expose the battery or battery charger to rain or wet conditions.
- 13. **ALWAYS** operate charger on standard household electrical power (120 volts). Using the charger on any other voltage may overheat and damage the charger.
- 14. **ALWAYS** wait at least 15 minutes between charges to avoid overheating the charger.

SAFETY — Continued

15. **ALWAYS** disconnect the power cord from its receptacle when the charger is not in use.

CAUTION ON LITHIUM-ION BATTERY

To extend the lifetime, the lithium-ion battery equips with the protection function to stop the output. In the cases of 1 to 3 described below, when using this product, even if you are pulling the switch, the motor may stop. This is not the trouble but the result of protection function.

1. When the battery power remaining runs out, the motor stops.
In such case, charge it up immediately.
2. If the Tool is overloaded, the motor may stop. In this case, release the switch of Tool and eliminate causes of overloading. After that, you can use it again.
3. If the battery is overheated under overload work, the battery power may stop.
In this case, stop using the battery and let the battery cool. After that, you can use it again.

Furthermore, please heed the following warning and caution.

⚠ WARNING

In order to prevent any battery leakage, heat generation, smoke emission, explosion and ignition beforehand, please be sure to heed the following precautions.

1. Make sure that swarf and dust do not collect on the battery.
 - During work make sure that swarf and dust do not fall on the battery.
 - Make sure that any swarf and dust falling on the power Tool during work do not collect on the battery.
 - Do not store an unused battery in a location exposed to swarf and dust.
 - Before storing a battery, remove any swarf and dust that may adhere to it and do not store it together with metal parts.
2. Do not pierce battery with a sharp object such as a Klip, strike with a hammer, step on, throw or subject the battery to severe physical shock.
3. Do not use an apparently damaged or deformed battery.
4. Do not use the battery in reverse polarity.
5. Do not connect directly to an electrical outlets or car cigarette lighter sockets.
6. Do not use the battery for a purpose other than those specified.

7. If the battery charging fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
8. Do not put or subject the battery to high temperatures or high pressure such as into a microwave oven, dryer, or high-pressure container.
9. Keep away from fire immediately when leakage or foul odor are detected.
10. Do not use in a location where strong static electricity generates.
11. If there is battery leakage, foul odor, heat generated, discolored or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the equipment or battery charger, and stop use.
12. Do not immerse the battery or allow any fluids to flow inside. Conductive liquid ingress, such as water, can cause damage resulting in fire or explosion. Store your battery in a cool, dry place, away from combustible and flammable items. Corrosive gas atmospheres must be avoided.

⚠ CAUTION

1. If liquid leaking from the battery gets into your eyes, do not rub your eyes and wash them well with fresh clean water such as tap water and contact a doctor immediately.
If left untreated, the liquid may cause eye-problems.
2. If liquid leaks onto your skin or clothes, wash well with clean water such as tap water immediately.
There is a possibility that this can cause skin irritation.
3. If you find rust, foul odor, overheating, discolor, deformation, and/or other irregularities when using the battery for the first time, do not use and return it to your supplier or vendor.

⚠ WARNING

If an electrically conductive foreign object enters the terminals of the lithium ion battery, a short-circuit may occur resulting in the risk of fire. Please observe the following matters when storing the battery.

- **Do not place electrically conductive cuttings, Klips, steel wire, copper wire or other wire in the storage case.**
- **Either install the battery in the power Tool or store by securely pressing into the battery cover until the ventilation holes are concealed to prevent short-circuits.**

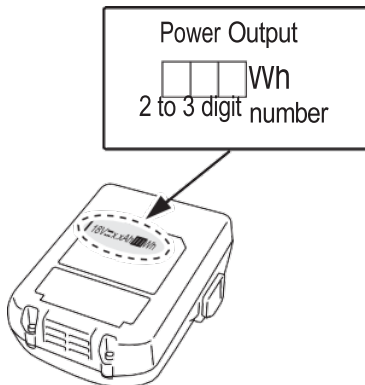
SAFETY — Continued**REGARDING LITHIUM-ION BATTERY TRANSPORTATION**

When transporting a lithium-ion battery, please observe the following precautions.

⚠ WARNING

Notify the transporting company that a package contains a lithium-ion battery, inform the company of its power output and follow the instructions of the transportation company when arranging transport.

- Lithium-ion batteries that exceed a power output of 100 Wh are considered to be in the freight classification of Dangerous Goods and will require special application procedures.
- For transportation abroad, you must comply with international law and the rules and regulations of the destination country.

**EMPLOYER'S RESPONSIBILITIES**

1. Ensure that this MANUAL is available to operators and personnel performing maintenance.
2. Ensure that Tools are used only when operators and others in work area are wearing EYE PROTECTOR.
3. Enforce the use of EYE PROTECTOR by operators and others in work area.
4. Keep Tools in safe working order.
5. Maintain Tools properly.
6. Ensure that Tools which require repair are not further used before repair.

**SAVE THESE INSTRUCTIONS
AND
MAKE THEM AVAILABLE TO OTHER USERS
AND
OWNERS OF THIS TOOL!**

OPERATION

NOTE

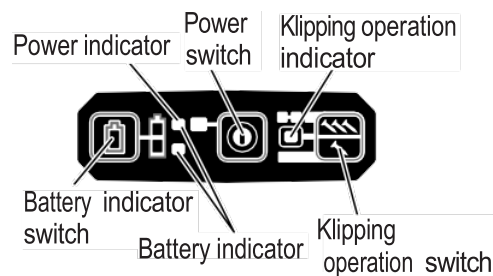
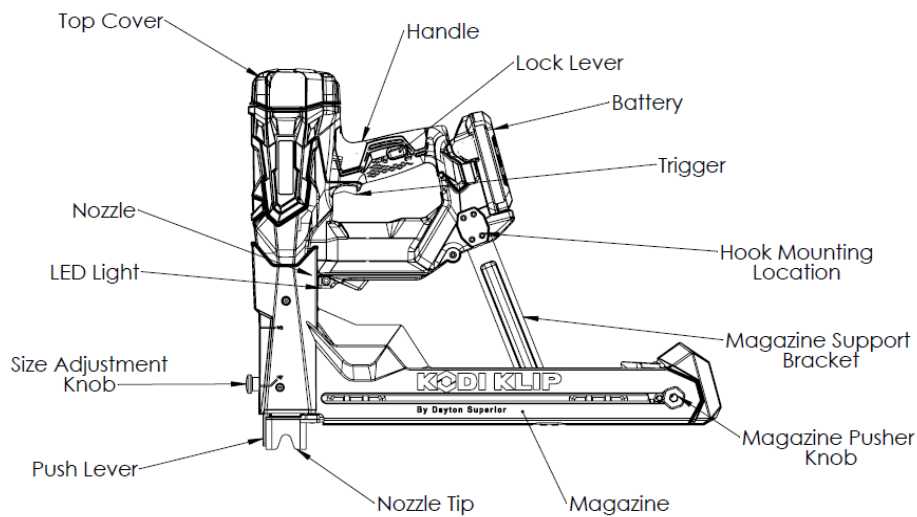
The information contained in this Manual is designed to assist you in the safe operation of the Tool.

Some illustrations in this Manual may show details or attachments that differ from those on your own Tool.

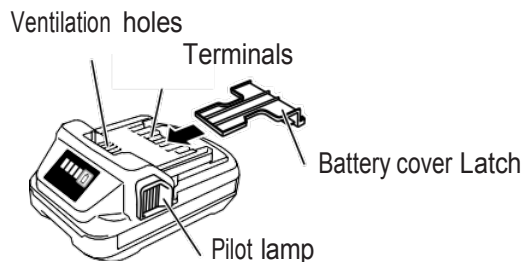
NAME OF PARTS

1. Battery Klipper Tool

KTB4-5 & KTB5-6

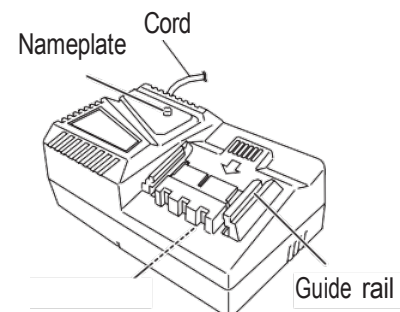


2. Battery



< 372121M >

3. Battery Charger



<UC181YFSL>

SPECIFICATIONS

1. Battery Klipper Tool

Model	KTB4-5	KTB5-6
Motor	DC Brushless	DC Brushless
Applicable Klips	#4 & #5 Series	#5 & #6 Series
Klip Loading capacity	1 Strip	1 Strip
Firing mode	Full sequential / Contact (Selectable)	Full sequential / Contact (Selectable)
Battery	Model	BSL36B18 (DSC # 372121M)
	Type	Li-ion battery
	Voltage	DC 18V
Weight ✕ Include battery	10.5 lbs. (4.7 kg)	12.4 lbs. (5.6 kg)
Dimension Height x Length x Width	16-7/8" x 21" x 4-1/2" (430 mm x 533 mm x 115 mm)	17-3/8" x 21-1/8" x 4-1/2" (441 mm x 536 mm x 115 mm)

2. Battery Charger

Model	UC18YSL3M
Input power source	Single phase: AC 120 V 60 Hz
Charging time (At a temperature of 68°F (20°C))	BSL36B18: Approx. 52 min
Charging voltage	DC 14.4–18 V
Charging current	DC 3.5 A
Weight	1.3 lbs. (0.6 kg)

NOTE The charging time may vary according to temperature and power source voltage.

PRODUCT INFORMATION

DSC Part Number	DESCRIPTION
101920	KTB4-5 Tool & Charging Starter Kit (UC18YSL3B1M)
101921	KTB4-5 Tool & Battery (372121M) – Charger Not Included
101924	KTB5-6 Tool & Charging Starter Kit (UC18YSL3B1M)
101925	KTB5-6 Tool & Battery (372121M) – Charger Not Included
UC18YSL3B1M	Charging Starter Kit: 18/36V Battery (372121M) & 18/36V Rapid Charger (UC18YSL3M)
372121M	18/36V Li-Ion Battery (Equivalent to Metabo Model BSL36B18)
101819	KTB4-5 Tool Only (No battery or charger)
101900	KTB5-6 Tool Only (No battery or charger)

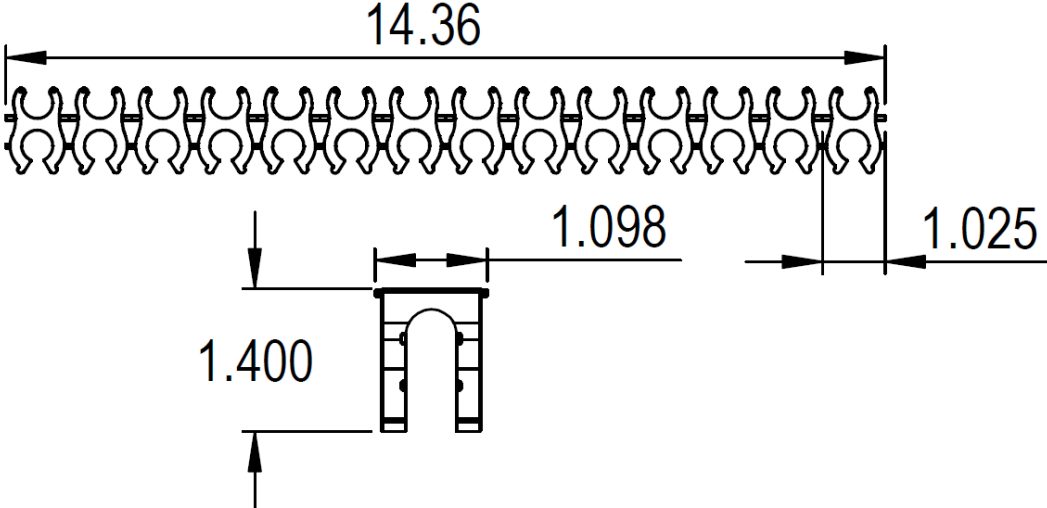
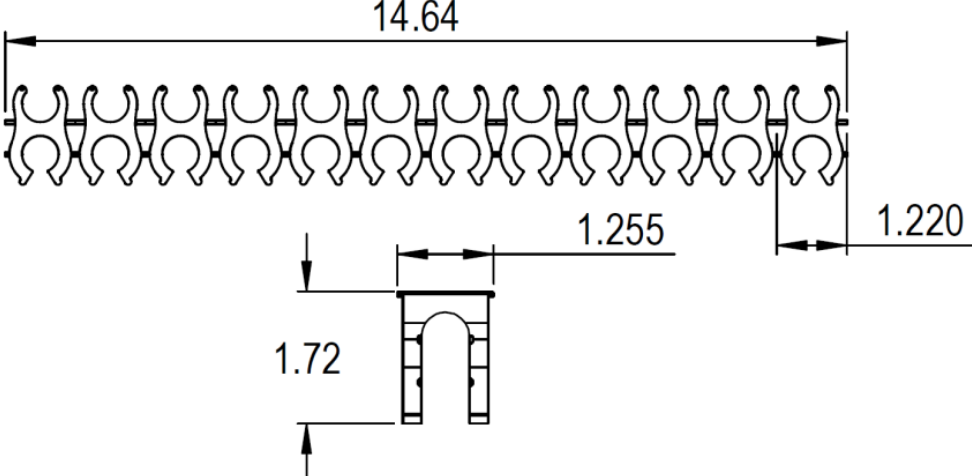
KLIP SELECTION

⚠ **WARNING**

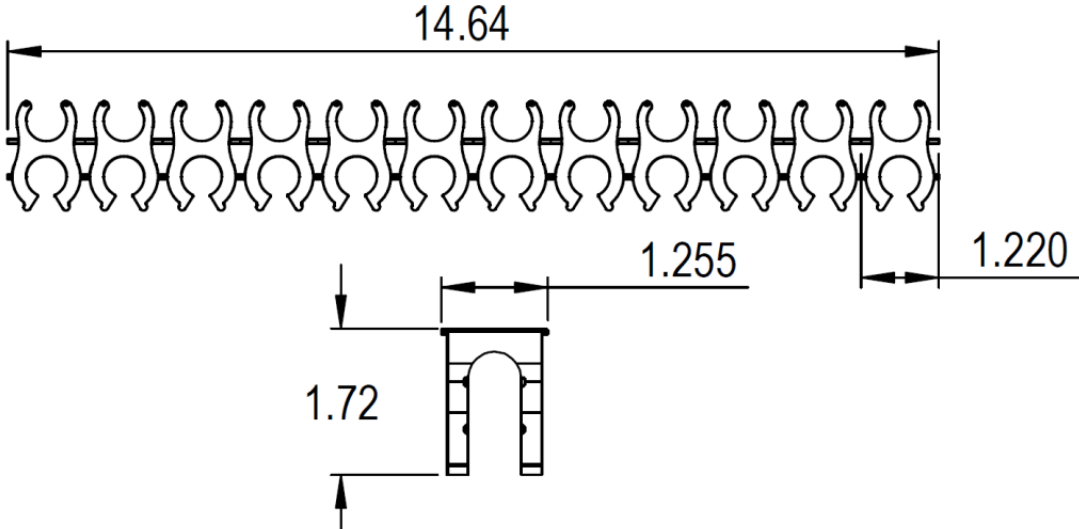
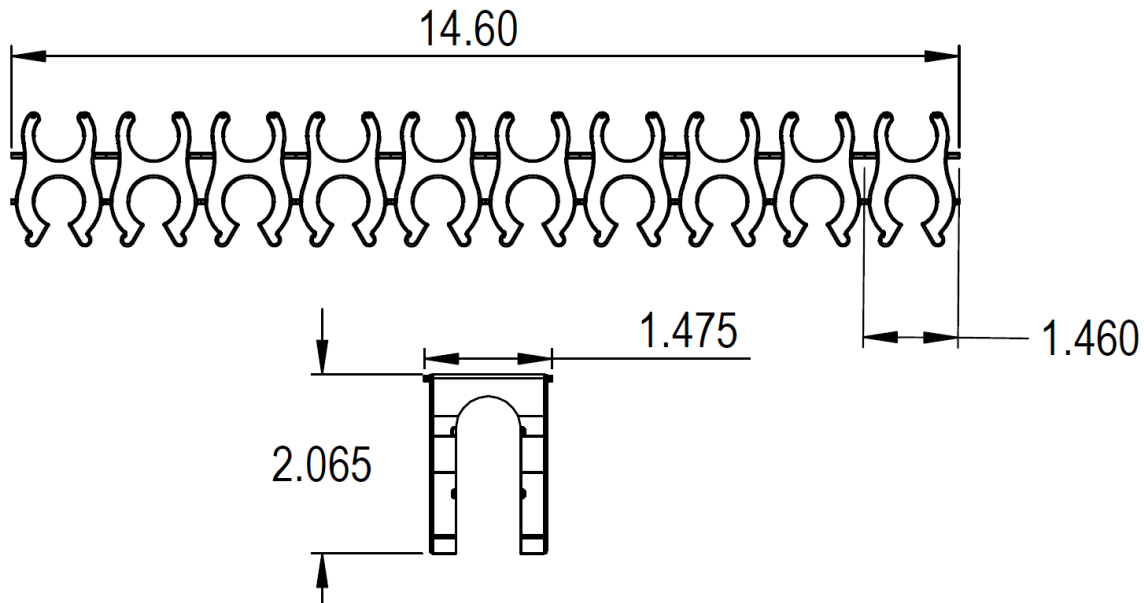
- Be sure to use only the genuine Kodi K-Klips manufactured by DSC. The use of any other materials can result in Tool malfunction and lead to serious injuries.

Only Klips shown in the Table below can be driven with the respective Tool.

KTB4-5

Klip Sizes	Klip Dimensions
KCS324 KCS424 KKM0612 KKM0812 KKM1012 KKM1212 KCS325 KCS425 KCS525 KKM0816 KKM1016 KKM1216 KKM1616	<p>#4 Series Klips (min allowed)</p>  <p>#5 Series Klips (max allowed)</p> 

KTB5-6

Applicable Klips	Klip Dimensions
KCS325 KCS425 KCS525 KKM0816 KKM1016 KKM1216 KKM1616 KCS326 KCS426 KCS526 KCS626 KKM1020 KKM1220 KKM1620 KKM2020	<p>#5 Series Klips (min allowed)</p>  <p>#6 Series Klips (max allowed)</p> 

APPLICATIONS

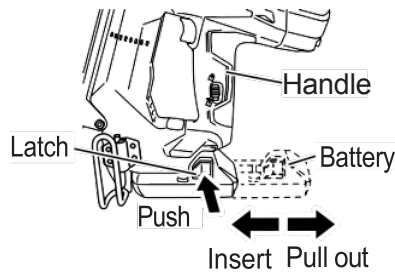
<KTB4-5, KTB5-6>

- Use wherever rebar connections are required, specifically on site-pour, precast, tilt-up, bridge-deck, pre-stress, residential, and many other concrete applications

REMOVAL AND INSTALLATION METHOD OF BATTERY

⚠ CAUTION

- **Be sure keep the fingers away from the trigger and actuator away from rebar**
- How to install the battery.
Align the battery with the groove in Tool handle and slip it into place.
Always insert it all the way until it locks in place with a little click, If not, it may accidentally fall out of the Tool, causing injury to you or someone around you.
- How to remove the battery.
Withdraw battery from the Tool handle while pressing the latch (2 pcs) of the battery.



CHARGING METHOD

NOTE

Before plugging into the receptacle, make sure the following points.

- The power source voltage is stated on the nameplate.
- The cord is not damaged.

⚠ WARNING

Do not charge at voltage higher than indicated on the nameplate.

If charged at voltage higher than indicated on the nameplate, the charger will burn up.

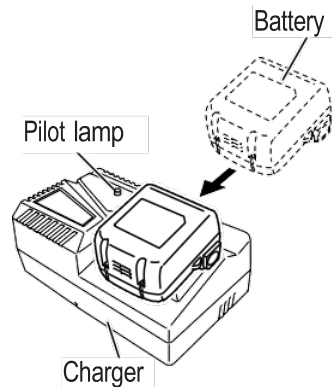
1. Connect the charger's power cord to a receptacle. When the power cord is connected, the charger's pilot lamp will blink in red. (At 1-second intervals)



⚠ WARNING

Do not use the electrical cord if damaged. Have it repaired immediately.

2. Insert the battery to the battery charger.
Insert the battery into the battery charger as shown in the figure.



3. Charging
When the battery is connected to the battery charger, charging will commence, and the pilot lamp will light in red. (See Table 2)






- (1) Pilot lamp indication
The indications of the pilot lamp will be as shown in Table 2, according to the condition of the charger or the rechargeable battery.

NOTE

If the pilot lamp flickers in red, pull out the plug from the receptacle and check if the battery is properly mounted.

When the battery is fully charged, the pilot lamp will blink in red slowly. (At 1-second intervals) (See Table 2)

Table 2

Indications of the pilot lamp				
Pilot lamp (red)	Before charging	Blinks	Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds) 	
	While charging	Lights	Lights continuously 	
	Charging complete	Blinks	Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds) 	
	Overheat standby	Blinks	Lights for 1 second. Does not light for 0.5 seconds. (off for 0.5 seconds) 	Battery overheated. Unable to charge. (Charging will commence when battery cools)
	Charging impossible	Flickers	Lights for 0.1 seconds. Does not light for 0.1 seconds. (off for 0.1 seconds) 	Malfunction in the battery or the charger

- (2) Regarding the temperature of the rechargeable battery.
The temperatures for rechargeable batteries are as shown in the Table 3, and batteries that have become hot should be cooled for a while before being recharged.

- (3) Regarding recharging time (At 68°F (20°C))

Table 3 Recharging ranges of batteries

Rechargeable batteries	Temperatures at which the battery can be recharged
377797M	32°F–122°F
372121M	(0°C–50°C)

Table 4 Charging time

Battery \ Charger	UC18YFSL
377797M	Approx. 20 min
372121M	Approx. 52 min

NOTE

The charging time may vary according to temperature and power source voltage.

4. Disconnect battery charger from the receptacle.

⚠ CAUTION

Do not pull the plug out of the receptacle by pulling on the cord.
Make sure to grasp the plug when removing from receptacle to avoid damaging cord.

- Remove the battery from the battery charger. Supporting the battery charger with hand, pull out the battery from the battery charger.

How to make the batteries perform longer

- Recharge the batteries before they become completely exhausted. When you feel that the power of the Tool becomes weaker, stop using the Tool and recharge its battery. If you continue to use the Tool and exhaust the electric current, the battery may be damaged, and its life will become shorter.
- Avoid recharging at high temperatures. A rechargeable battery will be hot immediately after use. If such a battery is recharged immediately after use, its internal chemical substance will deteriorate, and the battery life will be shortened. Leave the battery and recharge it after it has cooled for a while.

CAUTION

- When the battery charger has been continuously used, the battery charger will be heated, thus constituting the cause of the failures. Once the charging has been completed, give 15 minutes rest until the next charging.
- If the battery is charged while it is heated because it has been left for a long time in a location subject to direct sunlight or because the battery has just been used, the pilot lamp of the charger lights for 1 second, does not light for 0.5 seconds (off for 0.5 seconds). In such a case, first let the battery cool, then start charging.
- When the pilot lamp flickers rapidly in red (at 0.2-second intervals), check for and take out any foreign objects in the charger's battery installation hole. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.

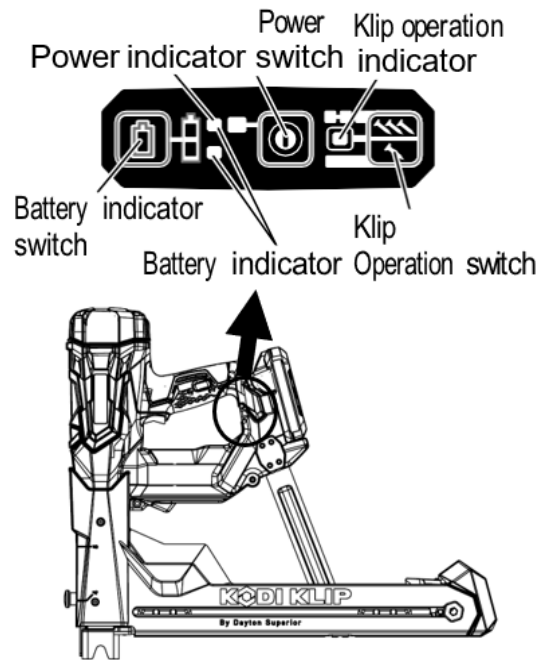
BEFORE OPERATION

Read section titled "SAFETY" (pages 3-10). Make sure of the followings before operation.

PREPARING THE BATTERY

Read section titled "SAFETY, IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CHARGER" (page 7). You must charge the battery before use. The charging method of battery is shown in page 15-17.

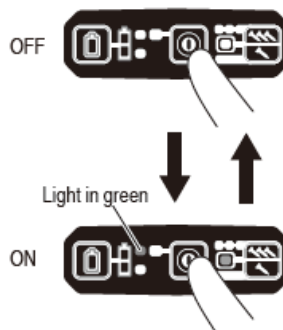
HOW TO OPERATE OPERATION PANEL



- Power switch ON
Under the condition of "Power switch OFF", push and hold on Power switch more than 1 second, then power indicator lights in Green.

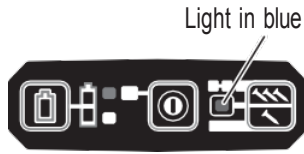
NOTE

- Do not press the safety actuator and/or pull the trigger during the process of turning the power switch ON. Doing so will prevent the power switch from turning ON.



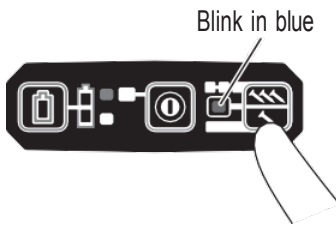
- Power switch OFF
Under the condition of "Power switch ON", push and hold on Power switch more than 1 second, then power indicator goes off. Under the condition of "Power switch ON", functions below are active.

- (3) Select Klipping operation mode
(Full sequential actuation / Contact actuation)
After power switch turn ON, always set in Full sequential actuation mode as initial. (Klipping operation indicator light in blue.)

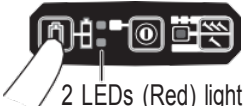

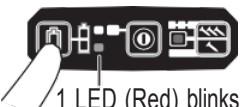


To change Klipping operation mode, push Klipping operation switch once. Every pushing, mode will change between “Full sequential” and “Contact”.

- Lighting (Blue):
FULL SEQUENTIAL ACTUATION MECHANISM,
Blinking (Blue):
CONTACT ACTUATION MECHANISM



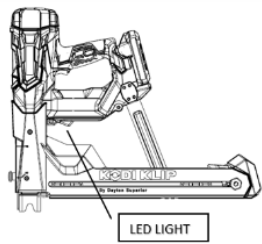

- (4) Check Remaining battery level
When pressing the battery indicator switch, the battery indicator shows Remaining battery level by status of LED lamp as below.

Status of indicator	
 2 LEDs (Red) light	The battery remaining power is enough.
 1 LED (Red) lights	The battery remaining power is about half.
 1 LED (Red) blinks	The battery remaining power is nearly empty. Recharge the battery as soon as possible.

NOTE

There are situations in which this product will not operate when two LEDs are lit on the remaining battery indicator.
This is not a malfunction but a control feature that is specific to this product. The Tool will operate when the battery is recharged.

- (5) Other functions
In case of operation error, LED lamps show as below.

Status of indicator	
 LED LIGHT	Machine is in too cold (below 23°F (-5°C)) or too hot condition. Allow the Tool to cool or warm-up thoroughly in adequate condition.
LED light blink in an interval. • In case of too hot condition, Blink in 1 second interval. • In case of too cold condition, Blink in 0.5 second interval. After 10 seconds, automatically turn off LED light and Power switch.	
 2 LEDs blink in Orange, after 10 seconds, automatically turn off Power switch.	Contact DSC for inspection

⚠ CAUTION

- Do not expose directly your eye to the light by looking into the light. If your eye is continuously exposed to the light, your eye will be hurt.
- Wipe off any dirt or grime attached to the lens of the LED light with a soft cloth, being careful not to scratch the lens. Scratches on the lens of the LED light can result in decreased brightness.

(6) Remaining battery indicator
 You can check the battery's remaining capacity by pressing the remaining battery indicator switch to light the indicator lamp. (Table 5)
 The indicator will shut off approximately 3 seconds after the remaining battery indicator switch is pressed.
 It is best to use the remaining battery indicator as a guide since there are slight differences such as ambient temperature and the condition of the battery. Also, the remaining battery indicator may vary from those equipped to a Tool or charger.

Remaining battery indicator lamp Remaining battery indicator switch

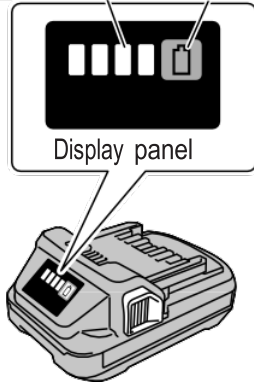


Table 5

State of lamp	Battery Remaining Power
	Lights; The battery remaining power is over 75%.
	Lights; The battery remaining power is 50%–75%.
	Lights; The battery remaining power is 25%–50%.

	Lights; The battery remaining power is less than 25%.
	Blinks; The battery remaining power is nearly empty. Recharge the battery soonest possible
	Blinks; Output suspended due to high temperature. Remove the battery from the Tool and allow it to fully cool down.
	Blinks; Output suspended due to failure or malfunction. The problem may be the battery so please contact your dealer.

As the remaining battery indicator shows somewhat differently depending on ambient temperature and battery characteristics, read it as a reference.

NOTE

Do not give a strong shock to the switch panel or break it. It may lead to a trouble.

TESTING THE TOOL

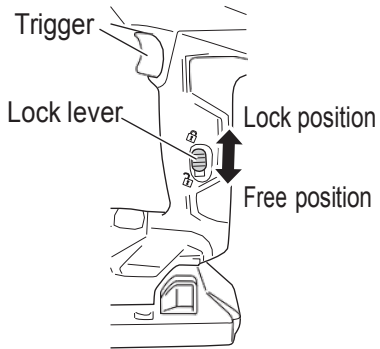
⚠ DANGER



- Operators and others in work area **MUST** wear safety glasses with side shields which conforms to ANSI Z87.1 specification.

⚠ WARNING

- **Make sure the trigger is locked when not firing Klips.**
 This Tool has a lock mechanism to prevent the Klips from being fired. Set the lock lever at the position to lock the trigger. Slide the lock lever to the position when the Tool is to be used, and to position when it is not in use.



- Never use Tool unless safety actuator is operating properly.

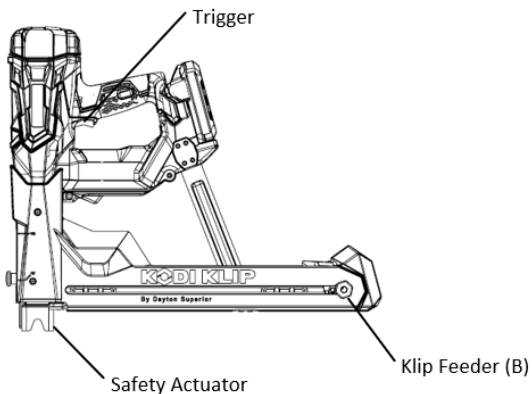
CAUTION

- Use caution not to throw the safety actuator tip onto rebar.

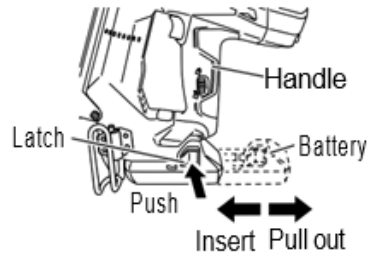
Before beginning the Klipping work, test the Tool by using the checklist below. Conduct the tests in the following order.
If abnormal operation occurs, stop using the Tool and contact DSC.

- (1) REMOVE ALL KLIPS AND BATTERY FROM TOOL.

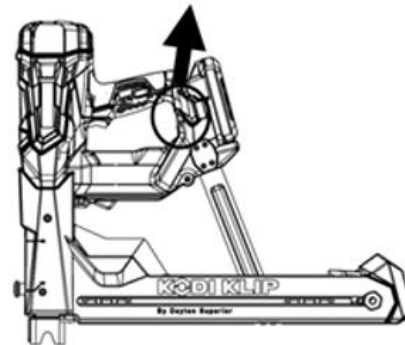
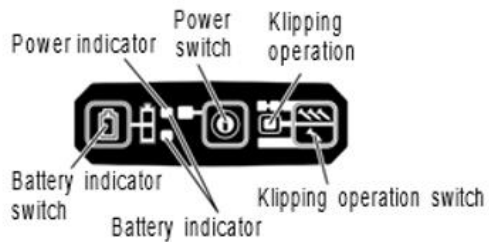
- ALL SCREWS MUST BE TIGHTENED.
- THE SAFETY ACTUATOR AND TRIGGER MUST MOVE SMOOTHLY with pulling back the Klip feeder (B).



- (2) Installing the battery.
Do not operate the safety actuator or trigger while installing the battery



- (3) Turn on the Power switch.

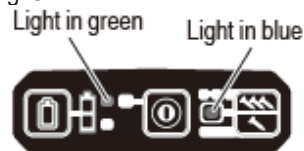


Turn on the Power switch by push and hold on Power switch more than 1 second.

Make sure the power indicator is lighting in green, and Klipping operation indicator is lighting in blue. (FULL SEQUENTIAL ACTUATION MECHANISM,)

NOTE

- Do not press the safety actuator and/or pull the trigger during the process of turning the power switch ON. Doing so will prevent the power switch from turning ON.



When the power is turned on, but the Tool is not used for 30 minutes, the Tool is automatically turned off. To turn on again, press the power switch.

⚠WARNING

Never leave the Tool with the power on. This could result in an accident.

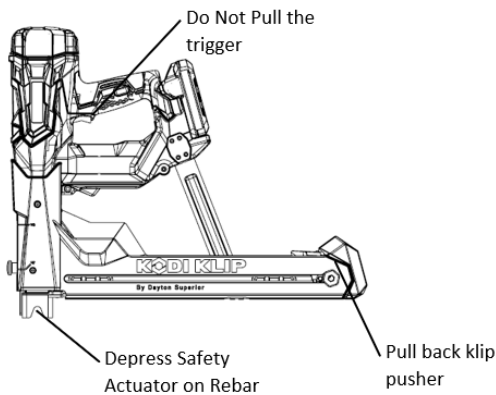
Klipping operation indicator

- Lighting (Blue): FULL SEQUENTIAL ACTUATION MECHANISM,
- Blinking (Blue): CONTACT ACTUATION MECHANISM

Make sure the battery indicator is not blinking. If the battery indicator is blinking in red, the battery doesn't have enough power and it needs to be charged.

- (4) Remove the finger from the trigger and press the safety actuator against the workpiece with pulling back the Klip feeder (B).

THE TOOL MUST NOT OPERATE



- (5) Separate the safety actuator from the rebar. Next, point the tool downward while pulling back the pusher knob. Pull the trigger and then wait in that position for at least 5 seconds

THE TOOL MUST OPERATE.

- (6) ① Without touching the trigger, depress the safety actuator against the rebar with pulling back the Klip feeder (B). Next, pull the trigger.

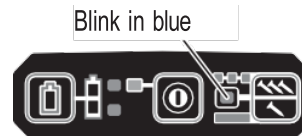
THE TOOL MUST OPERATE.

- (7) Separate the safety actuator from the workpiece, pull the trigger.

Depress the safety actuator against the workpiece within 2 seconds.

THE TOOL MUST NOT OPERATE.

- (8) Set the Klipping operation indicator blinking ON mode. (CONTACT ACTUATION MECHANISM) Push the Klipping operation switch once, make sure that the indicator is blinking Blue.



Separate the safety actuator from the workpiece, pull the trigger.

Depress the safety actuator against the workpiece within 2 seconds.

THE TOOL MUST OPERATE.

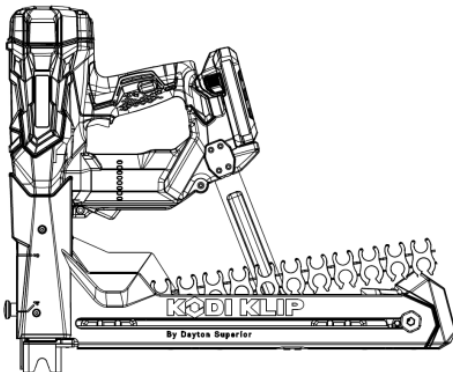
- (9) If no abnormal operation is observed, you may load Klips in the Tool. Drive Klips on a rebar junction that is the same type that is being used in large scale use.
- THE TOOL MUST OPERATE PROPERLY.

LOADING KLIPS

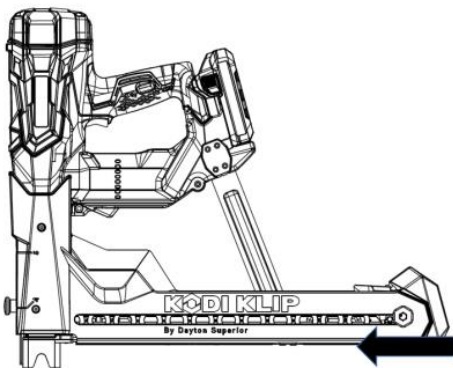
⚠ WARNING

- When loading Klips into Tool,
 - 1) remove battery from the Tool;
 - 2) do not pull trigger
 - 3) do not depress safety actuator
 - 4) keep tool pointed downward

- (1) Pull pusher knob back to the bottom of the magazine and lock into place via the “J” hook design
- (2) Insert Klip strip into the back of the magazine, inserting them at an angle as seen below and inserting the end of the strip into the underside of the nozzle opening



- (3) Once length of klip strip is coincident with extruded aluminum magazine rail, “knock” the pusher knob out of its nested “J” hook position, allowing pusher to recoil onto clips, applying pressure to the strip.



Notes:

- Klip strips of any length can be placed onto the magazine
HOWEVER multiple strip sections cannot be used together
 - All klips in magazine must be a contiguous section to avoid jamming
- Only use applicable Klips per this manual
- In order to remove Klips, pull the pusher knob to the bottom of the magazine, locking into place via the “J” hook design. Allow Klips to fall down the magazine and out of the nozzle. **NEVER STICK FINGERS OR ANY PART OF BODY INSIDE OF NOZZLE CAVITY**

TOOL OPERATION

Read section titled “SAFETY” (pages 3–10).



⚠ DANGER

Operators and others in work area **MUST** wear safety glasses with side shields which conforms to ANSI Z87.1 specification.

⚠ WARNING

- **NEVER** point Tool at yourself or others in work area.
- Keep fingers **AWAY** from trigger when not driving Klips to avoid accidental firing.
- Do not use the electrical cord if damaged. Have it repaired immediately.
- Choice of triggering method is important. Please read and understand “METHODS OF OPERATION” found below.
- Before starting work, check the Klipping operation switching device. This Tool includes a Klipping operation switching device. Before starting work, make sure that the switching device is properly set. If the switching device is not set properly, the Tool will not operate correctly.
- Never place your face, hands or feet near firing head when using.
- Do not drive Klips on top of other Klips or with Tool at too steep of an angle; Klips can ricochet and hurt someone.
- Never use Tool which is defective or operating abnormally.
- Do not use Tool as hammer.
- Remove all remaining Klips and battery from Tool when:
 - 1) doing maintenance and inspection;
 - 2) checking proper operation of safety actuator and trigger;

- 3) cleaning a jam;
 - 4) it is not in use;
 - 5) leaving work area;
 - 6) moving it to another location; and
 - 7) handing it to another person.
- Remove battery from Tool when:
 - 1) loading Klips;

This Tool is equipped with a Tool operation switching device.

Use FULL SEQUENTIAL ACTUATION MECHANISM or CONTACT ACTUATION MECHANISM in accordance with the work to be performed.

Explanation of the various Klipping operations

- FULL SEQUENTIAL ACTUATION MECHANISM: First, press the safety actuator against the piece of rebar; next, pull the trigger to drive the Klip. Follow the same sequence to continue driving Klips. After Klipping once, Klipping will not be possible again until remove finger from the trigger and lift the Tool off the top piece of rebar completely.
- CONTACT ACTUATION MECHANISM:
 1. Pull the trigger.
 2. Press the safety actuator against the rebar to drive the Klip.
 3. If the trigger is held back, a Klip will be driven each time the safety actuator is pressed against the rebar within a 2 second timeframe.

⚠ CAUTION

- Use caution not to throw the safety actuator tip onto rebar when the safety actuator cannot be pushed up.

METHODS OF OPERATION

This Tool is equipped with the safety actuator and does not operate unless the safety actuator is depressed.

There are two methods of operation to drive Klips with this Tool.

They are:

1. Intermittent operation (Trigger fire);
 2. Continuous operation (Safety actuator fire);
- (1) Intermittent operation (Trigger fire)
Use the FULL SEQUENTIAL ACTUATION MECHANISM setting.

⚠ WARNING

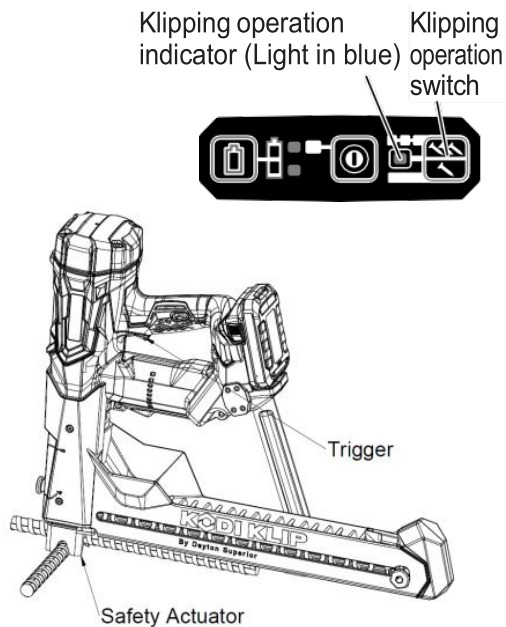
- For intermittent operation, Set the Klipping operation switch to FULL SEQUENTIAL ACTUATION MECHANISM (Klipping operation indicator is light in blue.) (i.e. Set to SINGLE ACTUATION MECHANISM.)
- To avoid double firing or accidental firing due to recoil.
 - 1) Set to FULL SEQUENTIAL ACTUATION MECHANISM.
 - 2) Pull the trigger rapidly and firmly.

- ① Set the Klipping operation switch to FULL SEQUENTIAL ACTUATION MECHANISM (Klipping operation indicator is light in blue.)
- ② Position the Klip outlet on the rebar with finger off the trigger.
- ③ Depress the safety actuator firmly until it is completely depressed.
- ④ Pull the trigger to drive a Klip.
- ⑤ Remove finger from the trigger and lift the Tool off the rebar completely.

To continue Klipping in a separate location, move the Tool along the rebar mat, repeating steps ② – ⑤ as required.

NOTE

Operations ③ and ④ should be done within 2 seconds of each other. If more than 2 seconds pass after ③, the Tool will not work properly. If this happens, retry from ③.



- (2) Continuous operation (Safety actuator fire)
Using CONTACT ACTUATION MECHANISM

⚠ WARNING

- To avoid double firing or accidental firing due to recoil.
 - 1) Do not press the Tool against the rebar with excessive force.
 - 2) Separate the Tool from the rebar as it recoils after Klipping.

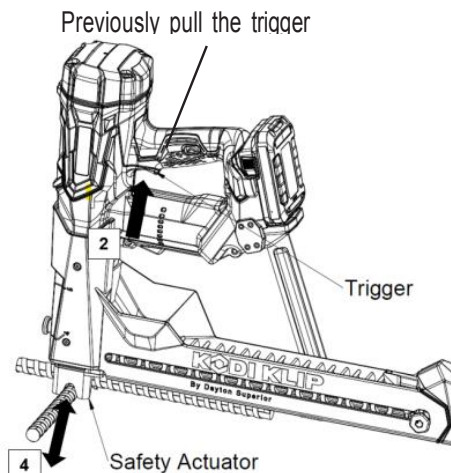
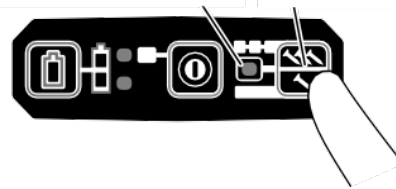
- ① Set the Klipping operation switch to CONTACT ACTUATION MECHANISM (Klipping operation indicator is blink in blue.)
- ② Pull the trigger with the Tool off the workpiece.
- ③ Depress the safety actuator against the workpiece to drive a Klip.
- ④ Move the Tool along the workpiece with a bouncing motion.

Each depression of the safety actuator will drive a Klip. As soon as the desired number of Klips have been driven, remove finger from the trigger.

NOTE

Operations ② and ③ should be done within 2 seconds of each other. If more than 2 seconds pass after ②, the Tool will not work properly. If this happens, retry from ②.

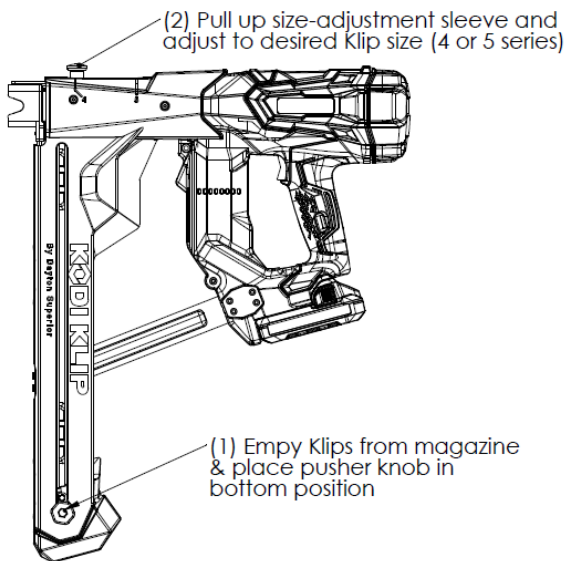
Klipping operation indicator (blink in blue) Klipping operation switch



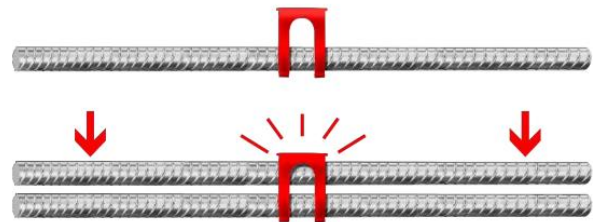
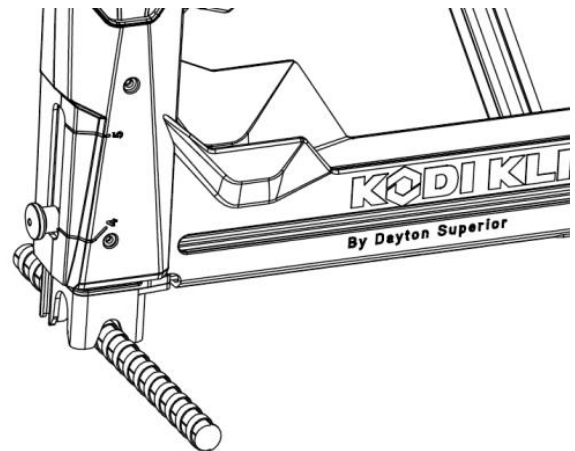
Adjusting Size-Adjustment Sleeve

The KTB4-5 Tool is designed to work with DSC manufactured #4 and #5 Series Kodi K-Klips. Before placing Klips in magazine and installing them onto rebar, the Tool nozzle MUST be placed to the correct corresponding setting

- (1) Empty Klips from Tool magazine and place pusher knob in the bottom position
- (2) Pull up on size-adjustment sleeve and adjust to desired Klip size (4 or 5 series)

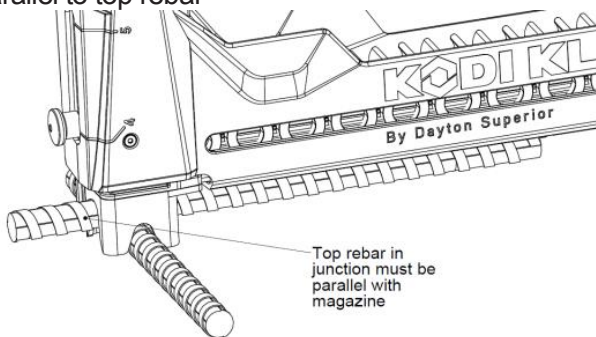


- **Parallel Connection:** Klip magazine must be perpendicular to the single piece of rebar and then the adjoining rebar must be pushed into the top of the klip by hand



Types of Connections

- **Cross Connection:** Klip magazine must be parallel to top rebar



⚠ WARNING

- Keep your finger off the trigger except during Klipping operation, because serious injury could result if the safety actuator accidentally contacts you or others in work area.
- Keep hands and body away from the discharge area. This Tool may bounce from the recoil of driving a Klip and unwanted subsequent Klip may be driven, possibly causing injury.

NOTE

- If all warnings and instructions are followed, safe operation is possible with all two systems: FULL SEQUENTIAL ACTUATION MECHANISM, CONTACT ACTUATION MECHANISM.
- Always handle Klips and package carefully. If Klip strips are dropped, collating bond may be broken, which may cause mis-feeding and jamming.
- After Klipping:
 - 1) remove battery from the Tool;
 - 2) remove all Klips from the Tool;

Clearing A Jam

1. Remove battery from Tool
2. Remove accessible/ free Klips from magazine rack
3. Retract magazine pusher to its bottom location
4. Use needle nose pliers to pull Klip out of nozzle
 - a. It is typically easiest to access jammed from the front end of the nozzle (opening where Klips exit the nozzle from)

USING THE HOOK (NOT INCLUDED)

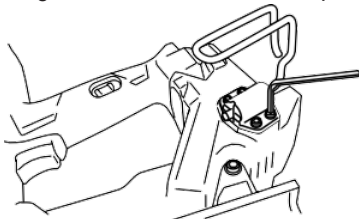
- When using the hook, turn off the power switch (green light “OFF”). Pay sufficient attention so that the main equipment does not fall. If the Tool falls, there is a risk of accident.

Hook can only be used on left side of the tool

1. Install the hook onto tool



2. Tighten screws to secure in place



MAINTENANCE

NOTE

The information contained in this Manual is designed to assist you in the safe maintenance of the Tool.

Some illustrations in this Manual may show details or attachments that differ from those on your own Tool.

MAINTENANCE AND INSPECTION

<Tool>

Read section titled “SAFETY” (pages 3–10).

⚠ WARNING

- **Remove battery and all remaining Klips from Tool when:**
 - 1) **doing maintenance and inspection; and**
 - 2) **clearing a jam.**

1. Inspecting the

① magazine Remove

② battery.

Clean the magazine. Remove dust and Klip debris which may have accumulated in the magazine.

⚠ CAUTION

- **Check that the Klip feeder slides smoothly by pulling it with finger.**
If not smooth, Klips can jam or be driven at an irregular angle hurt someone.

2. Storing

- Do not store the Tool, and battery in a cold weather environment.

Keep them in a warm area.

- When not in use, the Tool, and battery should be stored in a warm and dry place.

Keep it out of reach of children.

3. Maintenance chart

4. Operator troubleshooting

5. Disposal of the exhausted battery

⚠ WARNING

Do not dispose of the exhausted battery. The battery must explode if it is incinerated. The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

6. Storage Conditions

Storing in a place below 104°F (40°C) and out of the reach of children.

NOTE

Storing lithium-ion batteries

Make sure the lithium-ion batteries have been fully charged before storing them.

Prolonged storage (3 months or more) of batteries with a low charge may result in performance deterioration, significantly reducing battery usage time or rendering the batteries incapable of holding a charge.

However, significantly reduced battery usage time may be recovered by repeatedly charging and using the batteries two to five times.

If the battery usage time is extremely short despite repeated charging and use, consider the batteries dead and purchase new batteries.

⚠ CAUTION

In the operation and maintenance of power Tools, the safety regulations and standards prescribed in each country must be observed.

Important notice on the batteries for the Metabo HPT cordless power Tools

Please always use one of our designated genuine batteries. We cannot guarantee the safety and performance of our cordless power Tool when used with batteries other than these designated by us, or when the battery is disassembled and modified (such as disassembly and replacement of cells or other internal parts).

SERVICE AND REPAIRS**⚠ WARNING**

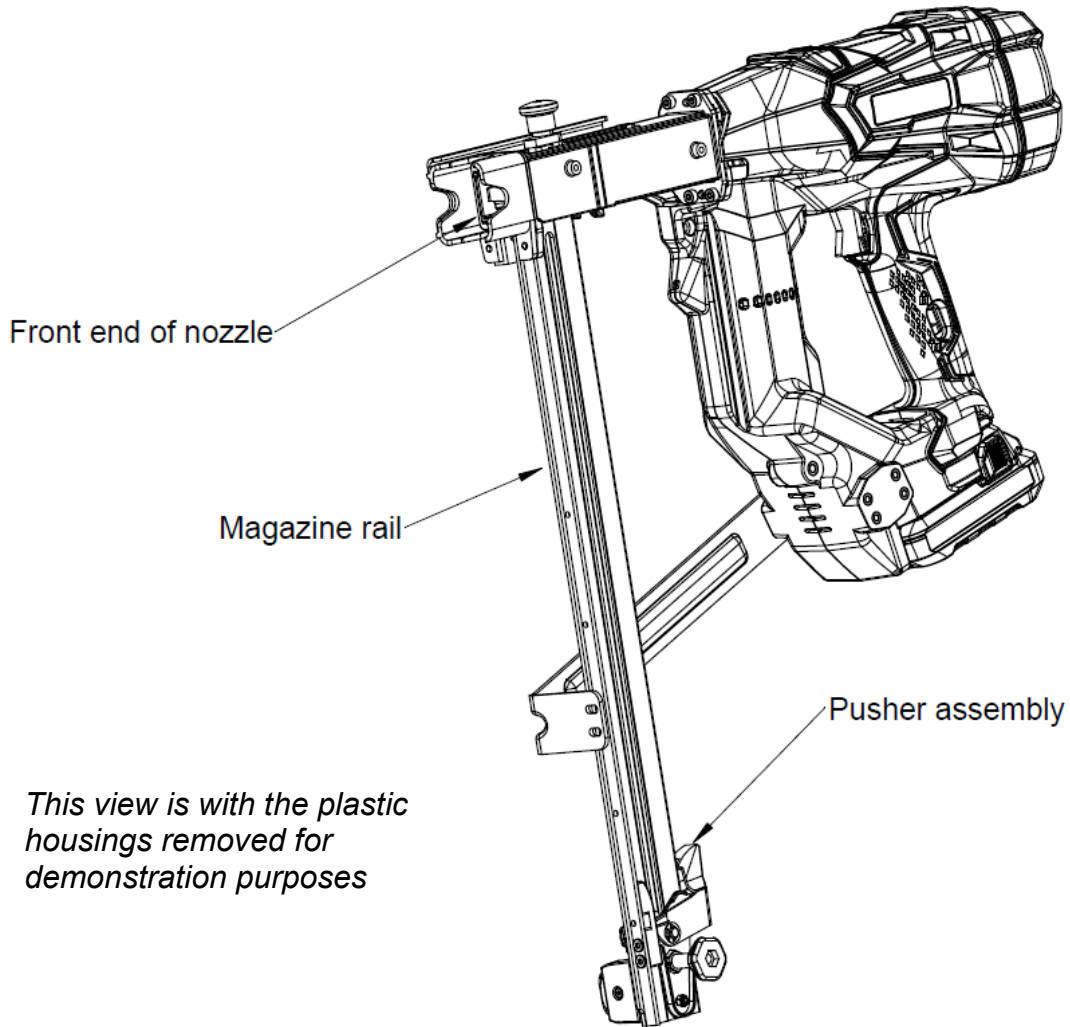
- Only service personnel trained by DSC, Metabo HPT, distributor or employer shall repair the Tool.
- Use only parts supplied or recommended by DSC or Metabo HPT for repair.

All quality Tools will eventually require servicing or replacement of parts because of wear from normal use.

NOTE

Specifications are subject to change without any obligation on the part of DSC.

Preventative Maintenance



ACTION	WHY	HOW
Clean magazine, pusher mechanism, and nozzle. (Image above details areas that need to be maintained)	Prevent a jam. Klip debris may collect inside the tool and build up over time if not maintained.	Blow clean daily.
Keep safety actuator working properly.	Promote operator safety and efficient Tool operation.	Blow clean daily.

Operator troubleshooting

Most minor problems can be resolved quickly and easily using the table below.
If problems persist, contact DSC for assistance

PROBLEM	CHECK METHOD	CORRECTION
Power switch doesn't turn on. Turns on once but turns off automatically.	Low battery charge.	Charge the battery.
	Damaged internal electronics.	Contact DSC for inspection
	no operation over 30 minutes? (Auto-power off function)	Push and hold power switch more than 1 second to switch "ON"
KlipTool doesn't operate (Power switch ON).	Tool not pressed enough against rebar.	Hold Tool firmly and press to the rebar completely, ensuring safety actuator is depressed and tool is square with rebar.
	Trigger not enough pulled.	Pull the trigger firmly.
	More than 2 seconds pass from safety actuator ON to trigger ON (or trigger ON to safety actuator ON).	Make sure that less than 2 seconds pass between safety actuator ON and trigger ON (or between trigger ON and safety actuator ON).
	Lock lever(Trigger lock function) is "ON" position.	Set Lock lever to "OFF" position. (Refer to page 19–20)
	Machine is too cold (below 23°F (-5°C)) or too hot. (LED light blinks at regular intervals, and power switch goes off after 10 seconds.) (Refer to page 18)	Allow the Tool to cool or warm-up thoroughly in adequate condition.
	Damaged internal electronics.	Contact DSC inspection.
	Internal air chamber has lost pressure	Recharge per Metabo instructions or contact DSC inspection
Tool operates, but no Klip is driven.	Magazine or Nozzle is dirty.	Blow and wipe clean the magazine and/ or nozzle..
	Check for a jam.	Clear a jam
	Driver blade worn or damaged?	Contact DSC for inspection.
	Klip pusher spring or pusher assembly damaged?	Contact DSC for inspection
	Check that Tool is in proper setting (#4 or #5)	Use only recommended Klips with the recommending settings. Ensure that Klips can fully enter the nozzle and be in-line with driver tip.
Weak drive. Slow to cycle.	Driver blade worn?	Contact DSC for inspection
	Compressed air pressure has become low.	Contact DSC for inspection
	Damaged internal electronics.	Contact DSC for inspection
Drives too far and driver tip contacts rebar	Driver tip worn?	Contact DSC for inspection
Skipping Klips. Intermittent feed.	Check for proper Klips.	Use only recommended Klips.
	Klip pusher damaged?	Replace Klip feeder.
	Is the mechanism clean and clear of debris?	Inspect and clear out debris as needed
	Pusher spring weakened or damaged?	Contact DSC for inspection
	Driver blade worn or damaged?	Contact DSC for inspection.
Klips jam. Driven Klip is bent.	Check for proper Klips.	Use only recommended Klips.
	Driver blade worn or damaged?	Contact DSC for inspection.
Remaining battery indicator on the machine doesn't match to battery	—	Refer to the indicator lamp on the battery.



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