



## RapidTool RT-40A Rebar Tying Machine User Guide

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**RapidTool**  
A U S T R A L I A

RapidTool RT-40A Rebar Tying Machine



Specifications & Technical Information

Machine Specification

	2.6kg	2.8kg
	297x109x300mm	312x109x310mm
	2 or 3 (adjustable)	3 or 4 (adjustable)
	12-40mm	30-60mm
	+5,000 (2 wraps) +4,500 (3 wraps)	+4,500 (3 wraps) +4,000 (4 wraps)

WIRE SPECIFICATION

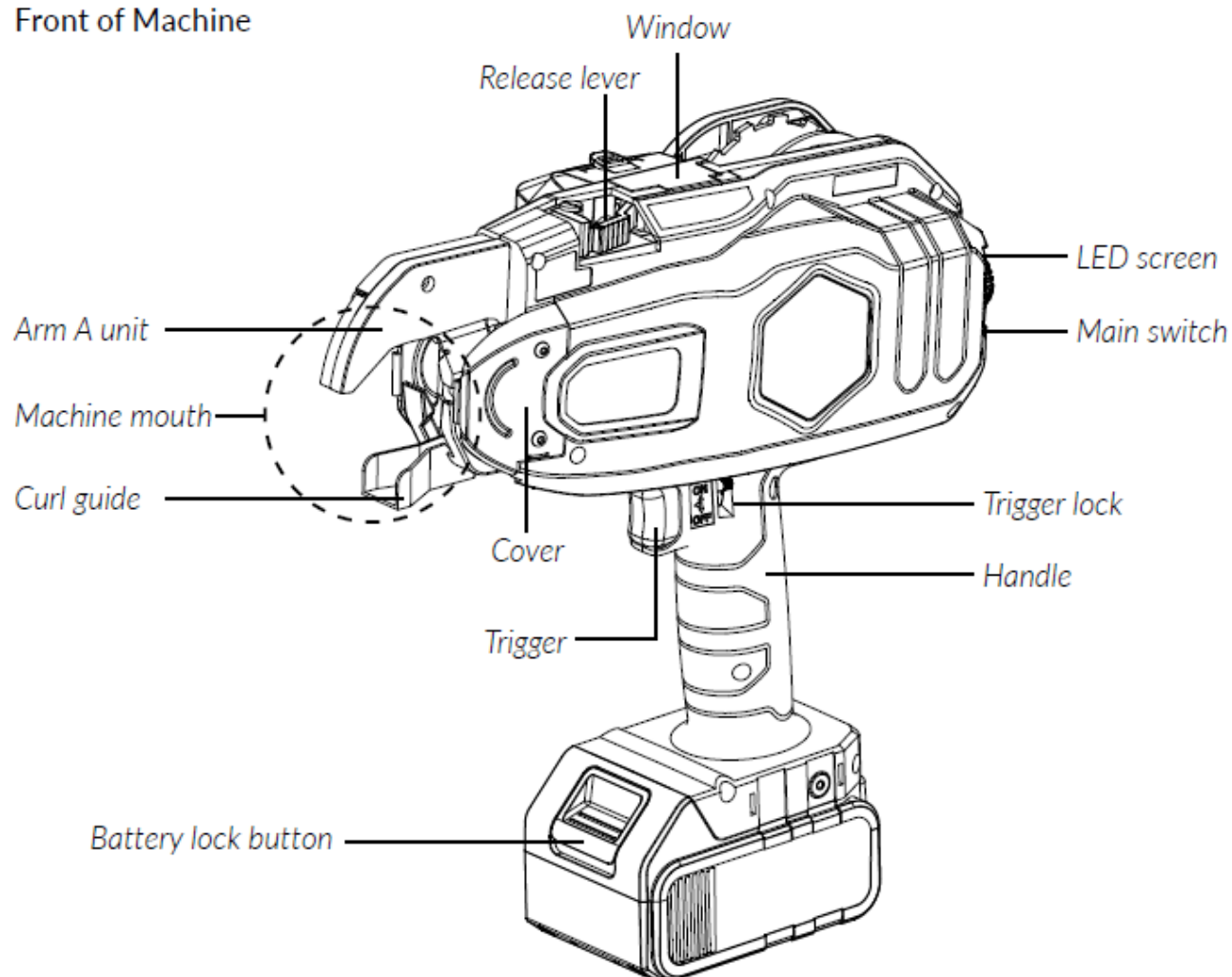
	TWG-50A (50 coils per carton)	
	0.8mm	
	Approx. 100m	
	Galv.	
	Approx. 160 (2 wraps)	Approx. 90 (3 wraps)
	Approx. 120 (3 wraps)	Approx. 75 (4 wraps)

## CHARGER SPECIFICATION

Input	100-240V     50/60Hz 1.0A
Output	DC 21V ____3.0A
Battery	10 Cell Li-ion 18V – 4.0 Ah
Charge Time	Approx. 90min
Charge only 18V Li-ion type rechargeable batteries supplied with the machine.	

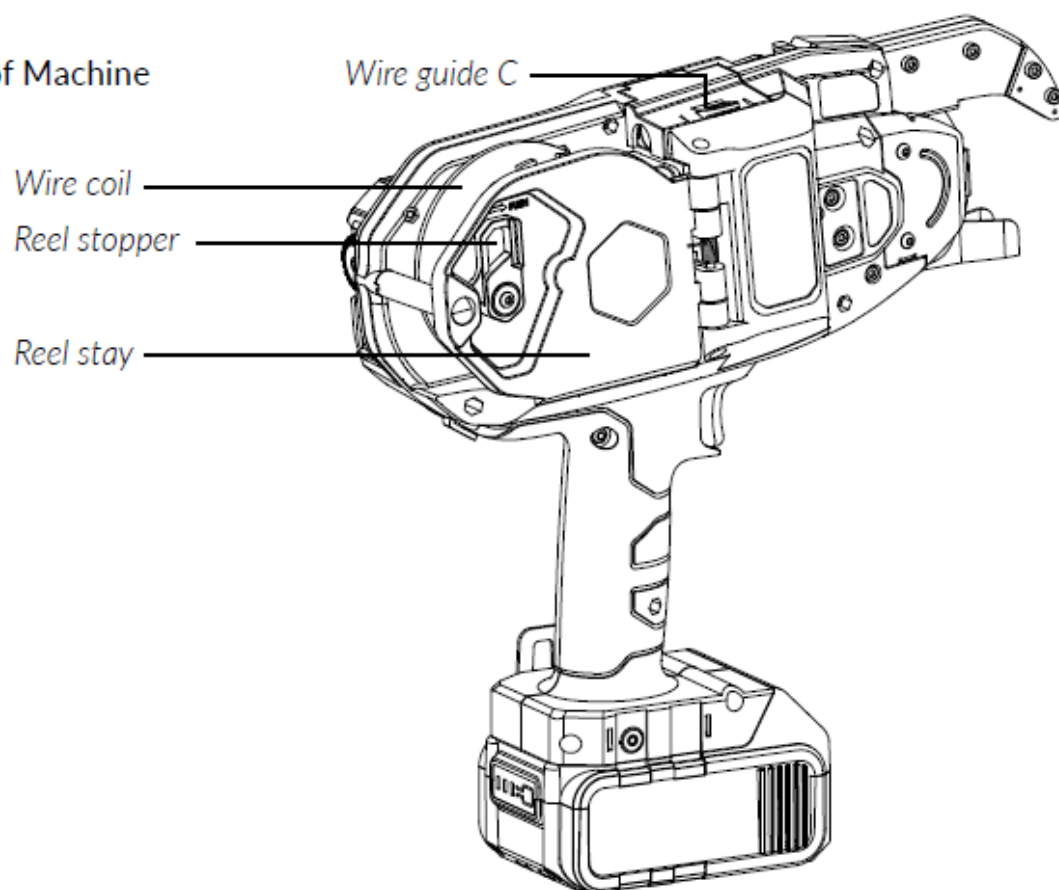
## Front of Machine

## Front of Machine

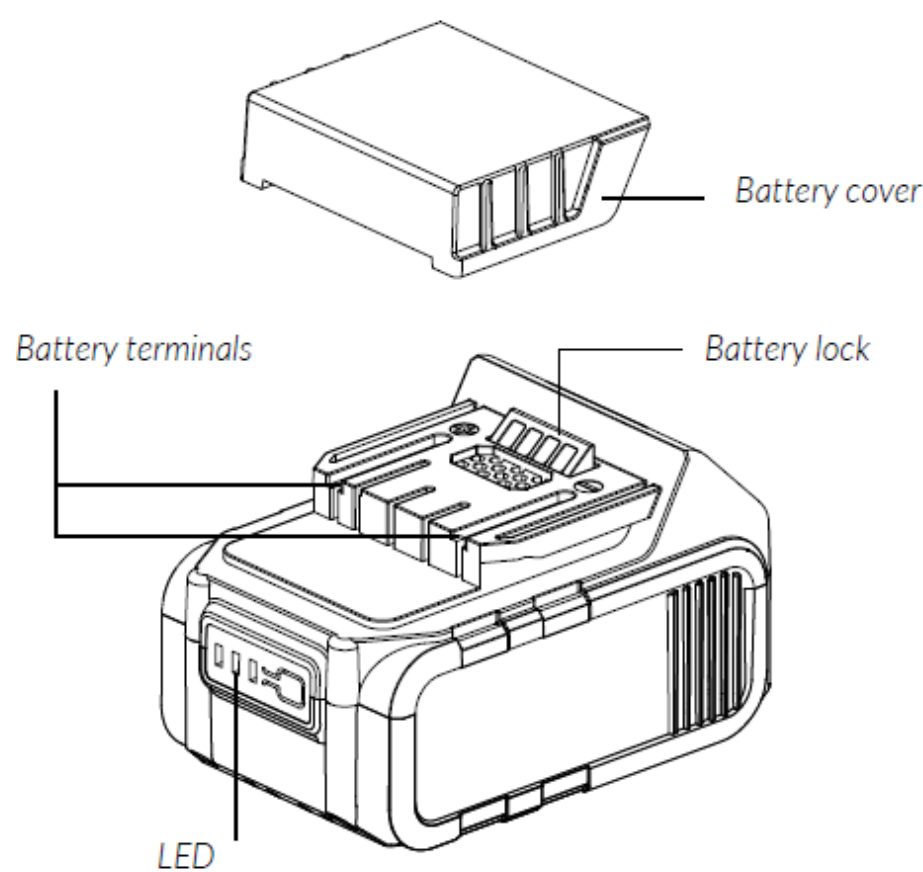


## Back of Machine

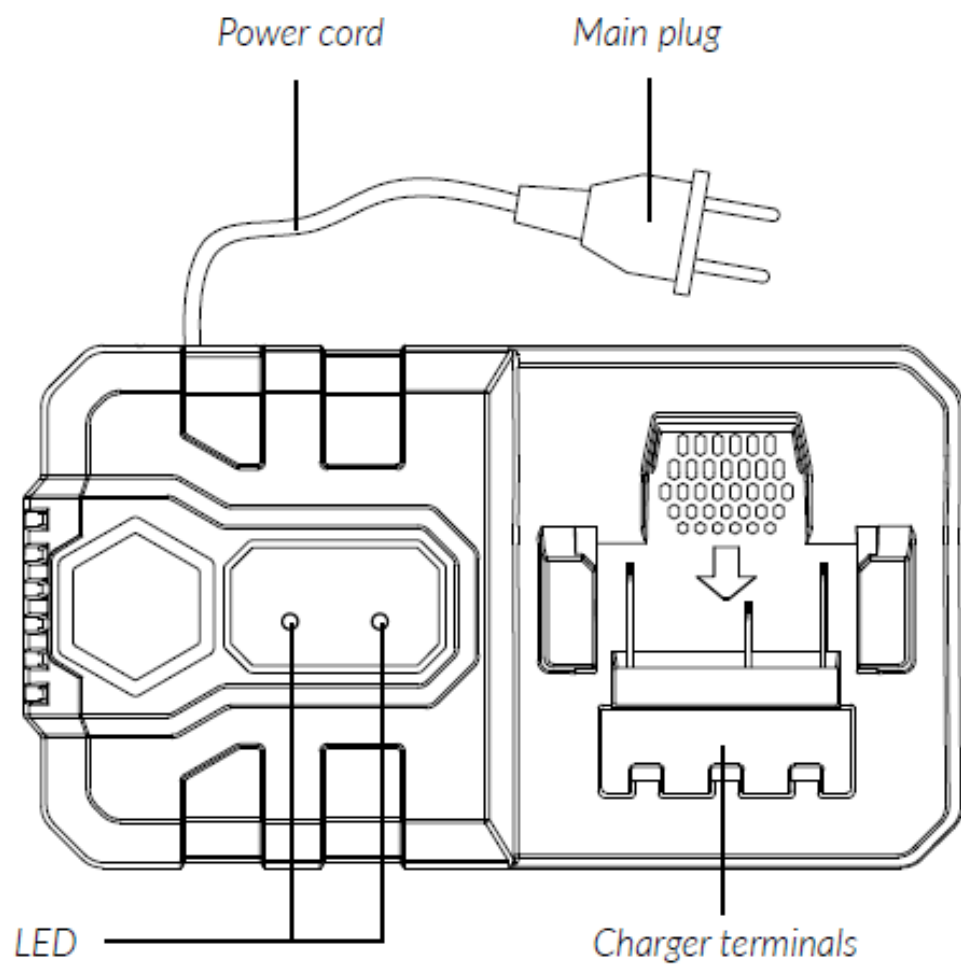
### Back of Machine



**Battery**



**Charger**



## **Safety**

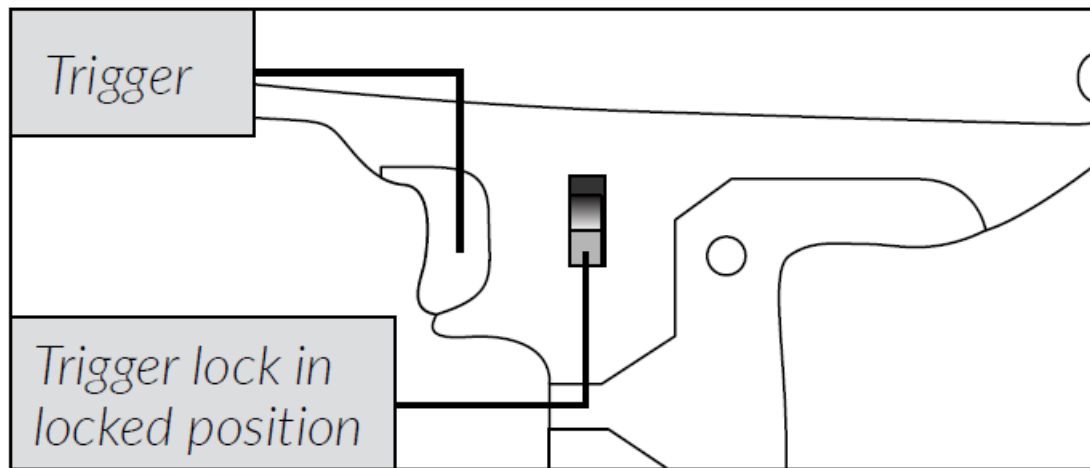
This machine is a high-performance, battery operated tool. Failure to follow safety instructions may result in serious injury.

### **Machine and General Safety**

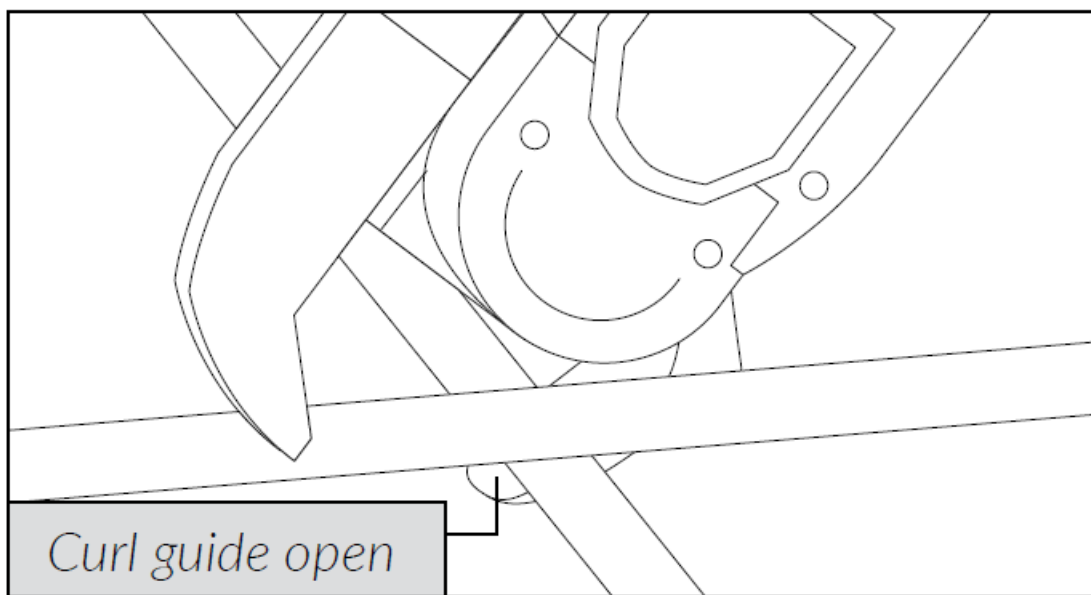
1. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Ensure trigger lock is on when not in use and before switching power on.
2. Authorized personal protective equipment must be worn when operating the machine (minimum requirement – protective gloves).
3. Ensure body parts are well clear of moving parts (machine mouth, feeding gears, and wire coil). In particular, keep hands well clear of machine mouth when power is on.
4. Use away from others, particularly children.
5. Children should be supervised to ensure that they do not play with the appliance.
6. Never attempt to tie diameters outside of the prescribed diameter range for the model (refer to table in Machine Specification section).
7. Never attempt to service the machine (other than general maintenance procedures outlined in the Maintenance section). Contact an authorized service centre if issues arise.
8. Only use Rapid Tool approved spare parts and accessories with machine.
9. Ensure trigger lock is on and power is switched off when not in use.
10. Ensure trigger lock is on, power is switched off and battery removed when changing or adjusting wire coil.
11. Ensure trigger lock is on and power switched off when charging battery.
12. Do not expose machine to wet or damp conditions.
13. Do not expose machine to hazardous materials (including flammable items).
14. Only use the machine in temperatures between 0-40°C.
15. Ensure all screws are properly tightened and inspect machine, battery and charger for defects prior to use. Do not use products if defect is found, contact an authorized service centre immediately.
16. Ensure the machine is properly maintained in accordance with Maintenance Section.

### **Safety Features**

The machine is equipped with the following safety features:



**Trigger-Lock:** The machine is equipped with a trigger lock. Lock the trigger by pushing the trigger lock into the downward 'Off' position as shown below. Unlock the trigger by pushing the trigger lock upwards to the 'On' position.



**Curl Guide:** The machine will make a warning sound and will not tie if the trigger is pulled whilst the curl guide is open. To start tying, release the trigger and make sure the curl guide is closed.

### **Battery and Charger Safety**

1. Do not charge battery using a generator.
2. Do not leave battery in charger once fully charged.
3. Only use supplied charger.
4. Only charge directly via charger.
5. If battery is fully charged but operating time is significantly reduced, battery is defective and must be replaced immediately.
6. Do not expose battery or charger to wet or damp conditions.
7. Do not cover or place anything on the charger during use.
8. Do not expose battery or charger to a heating source or open fire.
9. Do not expose battery or charger to hazardous materials (includes flammable items).
10. Charge battery in well ventilated places.

11. Only charge battery in temperatures between 0-40°C (charging time may be slower in lower temperatures).
12. Leave charger to rest between charges.
13. Keep charger and battery terminals clean (only use in dirt and dust free environments). Use battery cover on battery when not in use.
14. Ensure new batteries or batteries which haven't been used for some time are fully charged before use.
15. Handle charger cord carefully. Do not carry charger by cord or unplug charger by pulling cord.
16. Make sure battery terminals do not come into contact with each other.

## **Battery Disposal**

Batteries contain substances that can be harmful to human health and the environment if they are not handled properly. Batteries are marked with the crossed trash bin. This symbolizes that waste batteries must not be disposed of with unsorted waste but must be collected separately. It is important that you hand in your waste batteries to the collection points that are established. In this way, you help to ensure that the batteries are recycled in accordance with legislation and do not unnecessarily damage the environment. Your local waste authorities can inform you how to dispose of and recycle this type of battery correctly.

## **Battery & Charger**

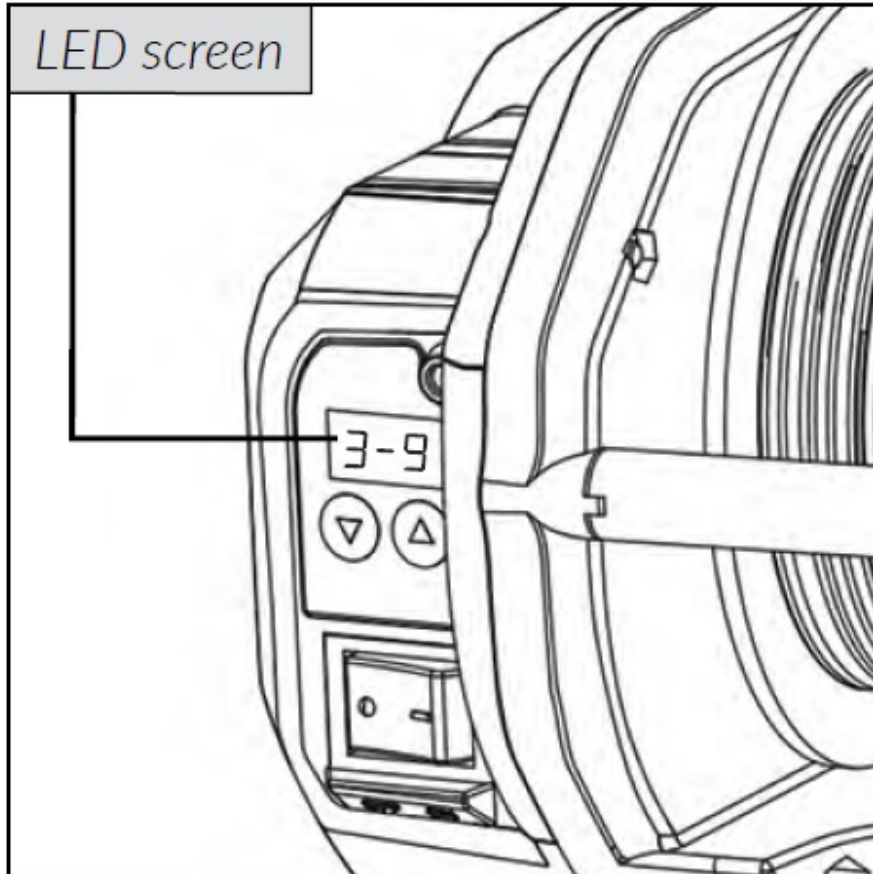
### **Operation**

Always read, understand, and comply with safety instructions (Section 2) before use.

1. To remove the battery, press the battery lock button before removing it from the machine battery slot.
2. Insert the battery into the charger slot and the battery will automatically begin to charge (red light permanently on, green light flashing).
3. When fully charged (green light permanently on), remove the battery from the charger.
4. To install a battery, insert the battery into the machine battery slot.



## Machine Operation



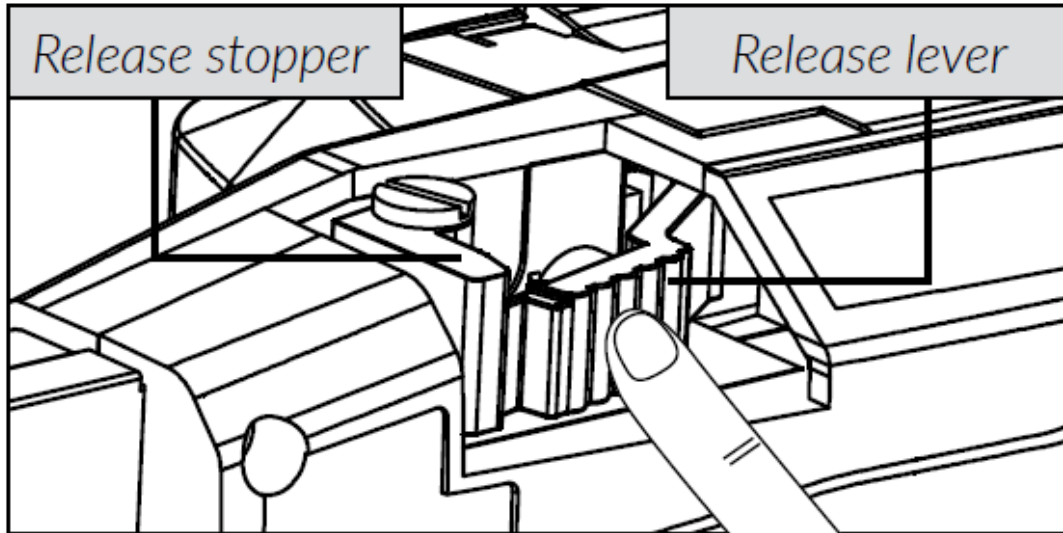
1. Always read, understand, and comply with safety instructions (Section 2) before use. Battery Saving Function  
The machine is equipped with a battery-saving function and will automatically shut down after 10 minutes of no use. Tie Tension and Wrap Settings The first digit on the LED screen indicates the number of tie wraps and the second digit indicates the tie tension as shown below.
2. Press the button to loosen and press the button to tighten the tie tension (1 = min tension / 9 = max tension).  
By default, RT-40A is set for 3 wraps and RT-60A is set for 4 wraps. To adjust the number of wraps down to 2 for RT-40A and 3 for RT-60A, switch the machine off, pull and hold the trigger while switching the machine on. If the machine is switched off, the number of wraps
3. will be automatically set for the default number of wraps again. It is recommended to use the following guide for wrap and tension settings:
4. Loading Wire Coil Warning – Ensure trigger lock is on, power is switched off and battery removed.
5. Push the release lever until it is caught by the release stopper.
6. Push the reel stopper to open the reel stay.
7. Insert the wire coil with the wire-end upwards and forward. Carefully close the reel stay and secure the reel stopper.
8. Insert the tip of the wire into wire guide C, through the gap of the feeding gears and all the way into the pipe (10-20 mm).
9. If the window is dirty and it is difficult to determine the position of the Wire Guide C, clean the inside of the window with a soft cloth. Close the window again to prevent the ingress of foreign bodies in the machine.
10. Push the release stopper and make sure that the release lever is back in its original position, and that the feeding gears are clamping the wire.
11. Make sure that the wire is tight and firm. Prevent the wire from curling up behind the wire coil. This may cause a jam.

12. Insert the battery into the machine battery slot and set the main switch to ON. Release the trigger lock before starting to tie.

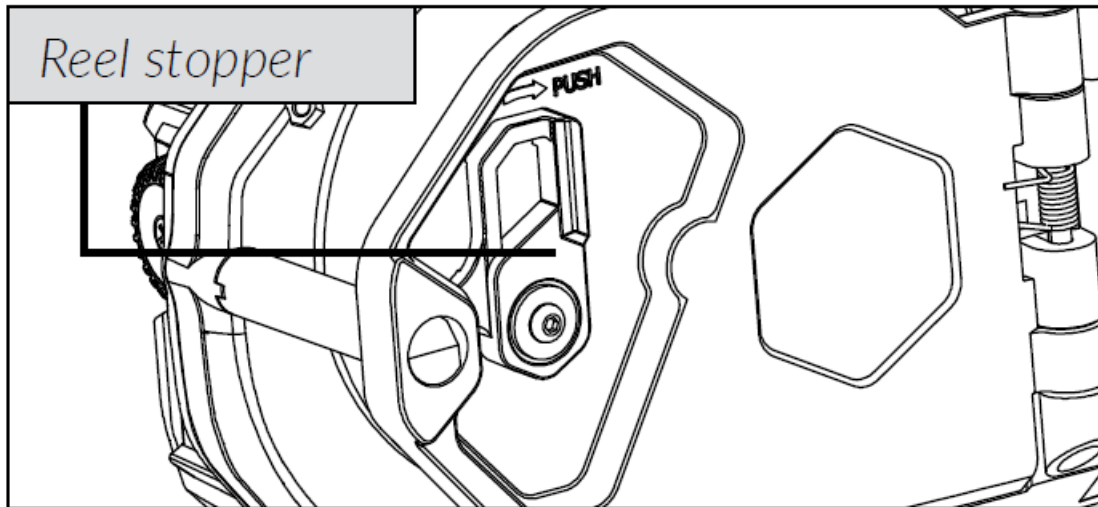
## Replacing Wire Coil

**Warning** – Ensure trigger lock is on, power is switched off and battery removed.

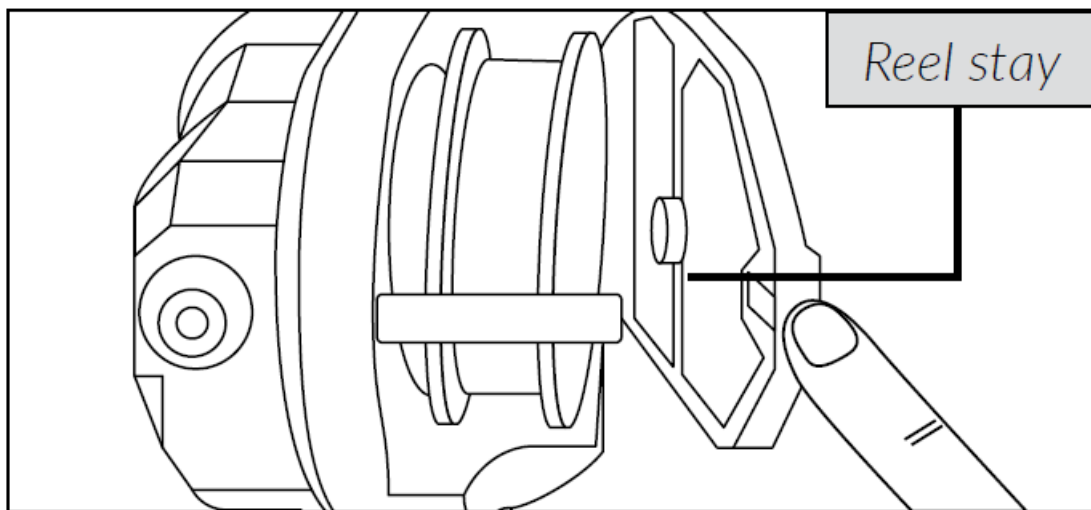
1. Push the release lever until it is caught by the release stopper.



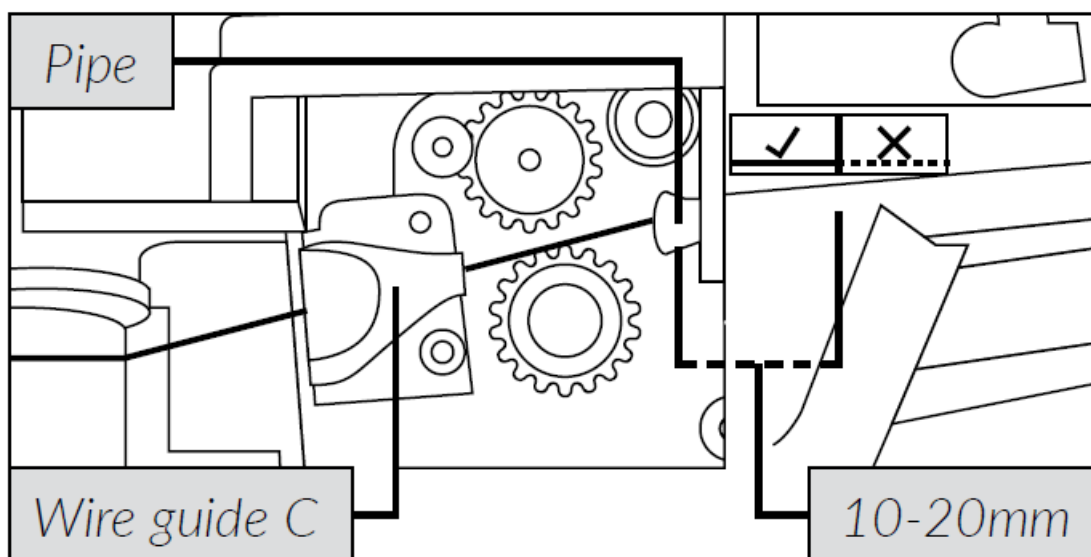
2. Remove the wire coil.



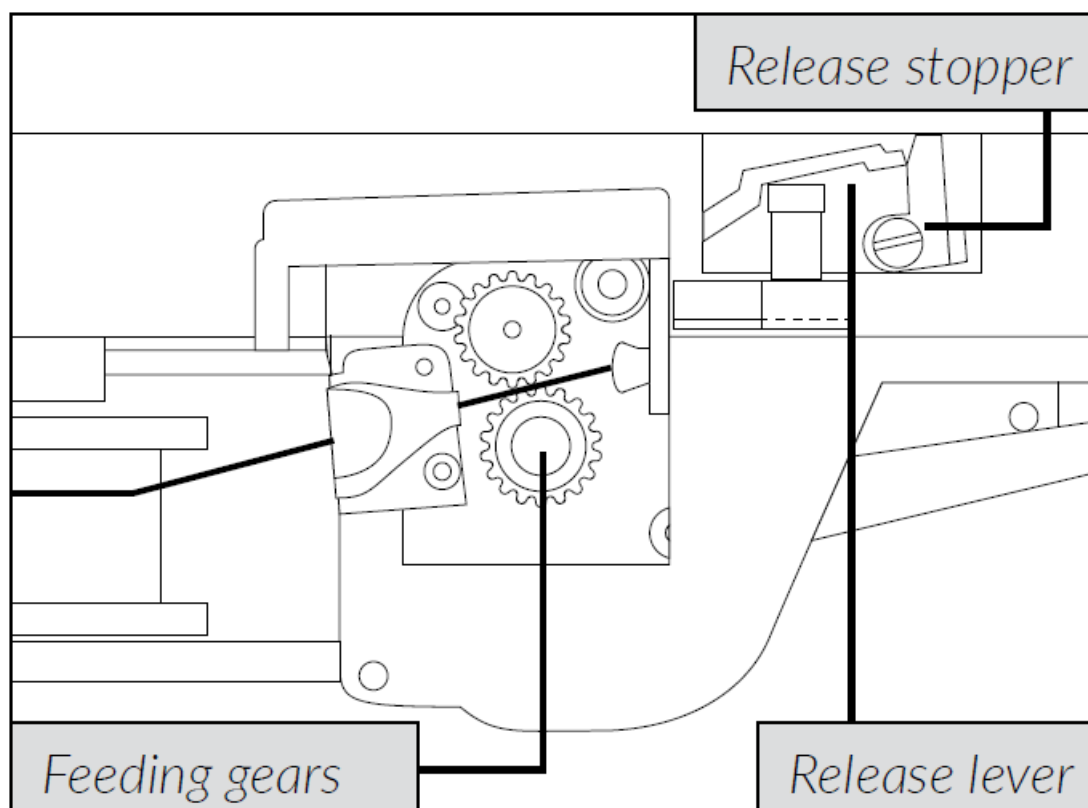
3. Push the reel stopper to release the reel stay and open it at the same time, remove the wire coil.



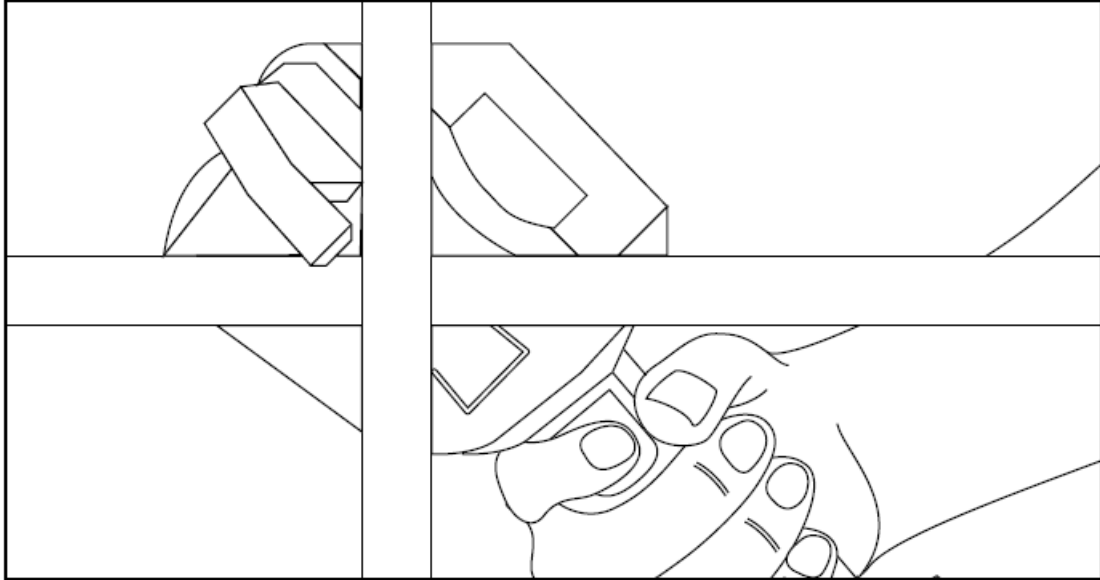
4. Load new wire coil (refer to previous instructions for loading wire coil).



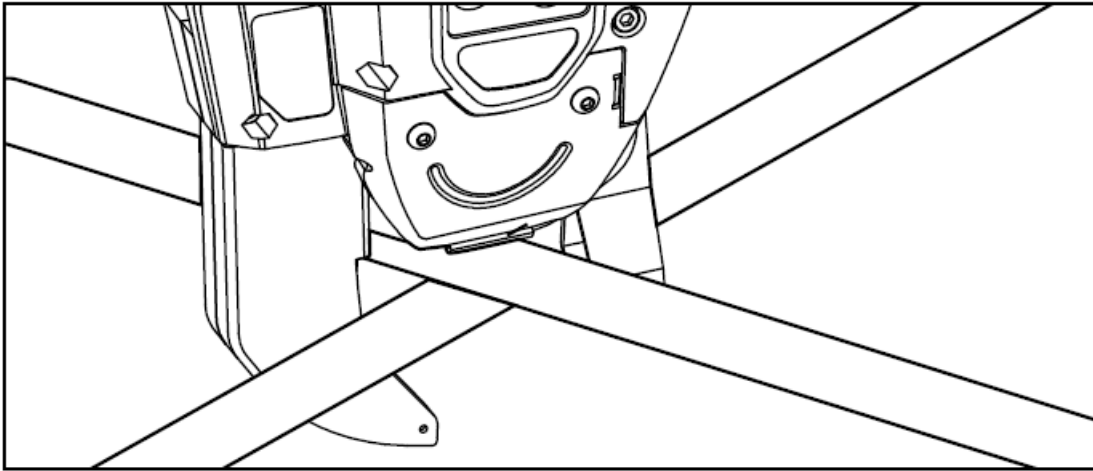
5. Perform a testing tie, to check if the tie tension of set correctly.



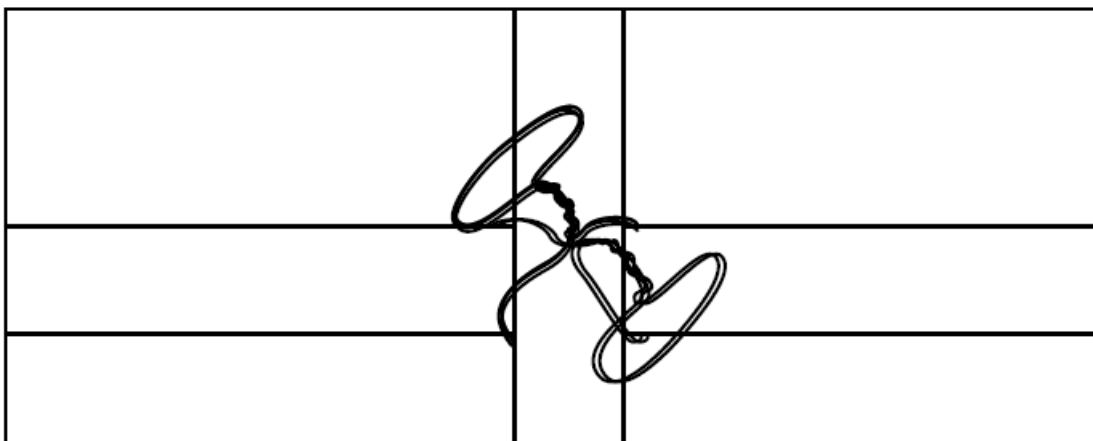
## Correct Usage



1. Place the arm A unit in a 45° angle over the rebar cross surface and push the mouth towards the rebar.



2. Place arm A perpendicularly on top of the rebar cross surface and with the mouth centred over the cross.

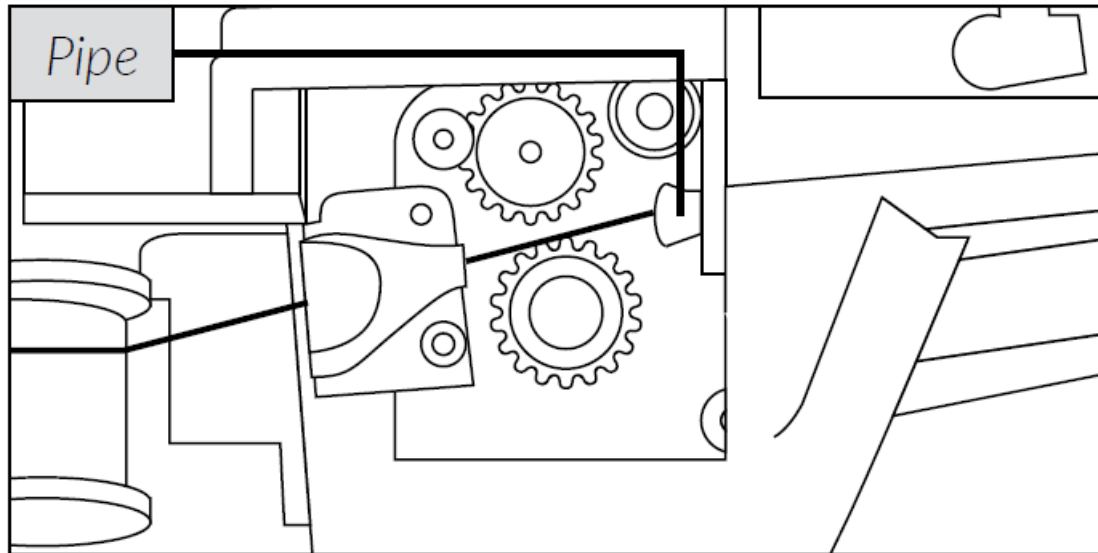


3. Cross-tying. Bend down the knot of the first tie, before you make the second tie.

## Maintenance

The machine is equipped with advanced warning detection features. Please refer to the Troubleshooting Guide on the following page. If the issue persists, contact an authorized service centre for diagnosis before further use. Never attempt to service machines other than the general maintenance procedures below. Contact an authorized service centre if issues arise.

## Cleaning



- Clean and check the machine on a regular basis.
- Remove wire coil and clean the feeding gear, brake gear, and machine mouth areas after use to avoid dust and metal residue getting into the machine and causing problems. This can be done with an air blowgun.
- Use air blow gun to also clean wire feeding channel by firing air through wire feed pipe as shown below.
- If an issue is found with wire feed or wire cutting mechanism, use an air blow gun to clean the wire feeding channel by firing air through the wire feed channel as above.
- Do not use oil-based lubricants to clean products as this may void warranty.

## Storage

The machine must be kept at approx. 20°C. Do not store in cold conditions, store under warm and dry conditions. Keep out of reach of children.

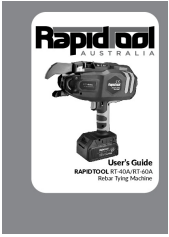
## Troubleshooting Guide

N o.	Normal Op eration	Problem	Warning So und	Cause	What to Check	Solution
1	Power on – The Tip Axis is initialized and the wire-cutter operates automatically.	No operation takes place.	No sound emitted.	Battery completely empty.	Confirm the battery is charged.	Perform normal charge.
				Electrode plate has been oxidized.	Take out the battery and see if the electrode is brown.	Polish terminal part of the battery pack with clean cloth, etc.
			Continuous short beeps.	Battery is empty.	Confirm the battery is charged.	Perform normal charge.
			One short beep.	CONTACT AUTHORIZED SERVICE CENTRE		
		Twister can not go back to the initial state.	Seven short beeps repeated.	CONTACT AUTHORIZED SERVICE CENTRE		
2	Trigger ON – Wire sent out.	No wire is sent out.	Two short beeps.	Curl guide is open.	Open/close curl guide.	Fully close curl guide.
				Tie wire has run out.	Check if the tie wire has run out.	Set the new tie wire.
				Wire caught inside reel.	Check if wire inside reel has been loosened and caught.	Remove fray on reel.
				Feeding channel is blocked with foreign substance.	Check the feeding channel.	Remove wire and use air blow gun to clean wire feeding channel by firing air through wire feed pipe (refer Cleaning Section)
				A small bump on tie wire.	Check tie wire.	Cut off the part of the tie wire with the small bump.
3	Binding wire draws a circle.	Curl is distorted and steps out of curl guide.	No sound emitted.	Wire, by hitting reinforcing bars, was repelled.	Check if wire hits reinforcing bars at binding.	Pay attention so that wire does not hit reinforcing bars at binding.

4	Wire is cut.	No wire cutting takes place.	No sound emitted.	Cutter section is blocked by foreign substance.	Confirm function of cutter section.	Remove wire and use air blow gun to clean wire feeding channel by firing air through wire feed pipe (refer Cleaning Section)
5	Wire twisting takes place.	Wire gets tangled.	No sound emitted.	Wire, by hitting reinforcing bars, was repelled.	Check if wire hits reinforcing bars at binding.	Pay attention so that wire does not hit reinforcing bars at binding.
			Seven short beeps repeated.	Tie wire is tangled on the twister.	Check the twister for tangled wire.	Remove tangled wire from the twister.
			Four short beeps repeated.	CONTACT AUTHORIZED SERVICE CENTRE		
		Binding power is weak.	No sound emitted.	Reinforcing bar is not of designated size.	Confirm size of reinforcing bars to be bound.	Use appropriate diameter scope.
				Tension setting is not at the right level.	Check the tension setting level.	Adjust the tension setting to a higher level.
				Erroneous handling such as improper application of machine.	Confirm how to apply machine to reinforcing bars.	Adjust the tension setting to a higher level and ensure machine is held as per Correct Usage Section below.
		Twisting-off tie head occurs.	No sound emitted.	Reinforcing bar is not of designated size.	Confirm size of reinforcing bars to be bound.	Use appropriate diameter scope.
				Tension setting is not at the right level.	Check the tension setting level.	Adjust the tension setting to a lower level.
				Erroneous handling such as improper application of machine.	Confirm how to apply machine to reinforcing bars.	Adjust the tension setting to a lower level and ensure machine is held as per Correct Usage Section below.
			Continuous short beeps.	Low power remains in the battery.	Confirm the battery is fully charged.	Perform normal charge.

		Works properly.	Six short beeps repeated.	The tool is used at high temperature.	Check the temperature at the job site.	Leave the tool and the battery pack at a cooler temperature for some time, then continue operation.
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## Documents / Resources

	<a href="#">RapidTool RT-40A Rebar Tying Machine</a> [pdf] User Guide RT-40A, RT-60A, Rebar Tying Machine
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Manuals+.