RapidTool RT-40/RT-60 Rebar Tying Machine
Troubleshooting Guide

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Warning

- Ensure power is off and battery removed before performing service.
- Do not use oil based lubricants to clean product as this may void warranty.

Phone Diagnosis

General Issue

- Ensure all bolts on machine are tightened – particularly around Machine Mouth – needs to be in correct alignment.

Issue with wire feed or wire cutting mechanism

1. Open machine mouth

2. Wipe cutter section with dry cloth or blow with air blow gun. Remove any caught wire if necessary before reassembling.

Troubleshooting Guide

Refer to troubleshooting spreadsheet below. Solutions in yellow may be performed by customer without need to return machine.

No.	Normal Operation	Problem	Warning Sound	Cause	What to Check	Solution
1	Power on → 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 has gone brown.	Polish terminal part of battery pack with clean cloth, etc.
			Continuous short beeps	Curl guide is open.	Open/close curl guide.	Fully close curl guide.
				Tie wire is tangled on the twister.	Check the twister for tangled wire.	Remove tangled wire from the twister.
			Two long beeps repeated	Battery is empty.	Confirm the battery is charged.	Perform normal charge.
		Tip Axis Initializing fails	Seven short beeps repeated	There is foreign substance between Magnetic plate (#61) and Route PWB unit (#62) or bad connection of connecting wire K.	Check if there is foreign substance between Magnetic plate (#61) and Route PWB unit (#62) or check the wire K connection.	Remove the foreign substance between Magnetic plate (#61) and Route PWB unit (#62) or replace with new connecting wire K.
			Four short beeps repeated	Bad connection of connecting wire A and B or twisting motor is burned.	Check the wire A and B connection.	Reconnect or replace the wire A and B or replace with new twisting motor.
2	Trigger ON → Wire is sent out.	No wire is sent out.	Continuous short beeps	Curl guide is open.	Open/close curl guide.	Fully close curl guide.

No.	Normal Operation	Problem	Warning Sound	Cause	What to Check	Solution
			Three short beeps repeated	Tie wire has run out.	Check if 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.
				Cutter section is blocked with foreign substance.	Confirm functioning of cutter section.	Either wipe cutter section with dry cloth or blow it with air as per diagram above.
				A wire is caught in the cutter section or Wire guide A.	Check if any wire is caught.	Open the machine mouth to access cutter section and remove caught wire as per diagram above.
3	Binding wire draws a circle.	Curl is distordered 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 with foreign substance.	Confirm function of cutter section.	Either wipe cutter section with dry cloth or blow it with air as per diagram above.
				Cutter or the cutting mechanism is broken or worn out.	Check the cutter, and each part in cutting mechanism.	Open machine mouth and replace with new part.
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.

No.	Normal Operation	Problem	Warning Sound	Cause	What to Check	Solution
			Seven short beeps repeated	There is foreign substance between Magnetic plate (#61) and Route PWB unit (#62) or bad connection of connecting wire K.	Check if there is foreign substance between Magnetic plate (#61) and Route PWB unit (#62) or check the wire K connection.	Remove the foreign substance between Magnetic plate (#61) and Route PWB unit (#62) or replace with new connecting wire K.
			Four short beeps repeated	Bad connection of connecting wire A and B or twisting motor is burned.	Check the wire A and B connection.	Reconnect or replace the wire A and B or replace with new twisting motor.
		Binding power is weak.	No sound emitted.	Reinforcing bar is not of designated size.	Confirm size of reinforcing bars to be bound.	Use approriate diameter scope.
				Erroneous handling such as improper application of machine.	Confirm how to apply machine to reinforcing bars.	Adjust the tension setting to a higher lever 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 approriate diameter scope.
				Erroneous handling such as improper application of machine.	Confirm how to apply machine to reinforcing barts.	Adjust the tension setting to a lower lever and and ensure machine is held as per correct usage section below.
		Works properly.	Two long beeps repeated	Low power remains in the battery pack.	Confirm the battery is fully charged.	Perform normal charge.

No.	Normal Operation	Problem	Warning Sound	Cause	What to Check	Solution
			Five 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.

4. Machine Operation

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

Battery Saving Function

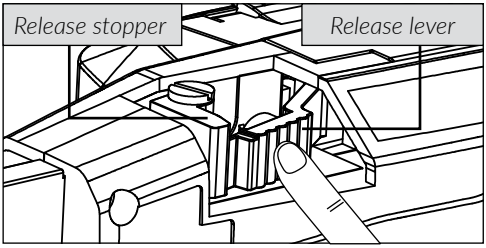
The machine is equipped with a battery saving function and will automatically shut down after 10 minutes of no use.

Tie Tension Settings

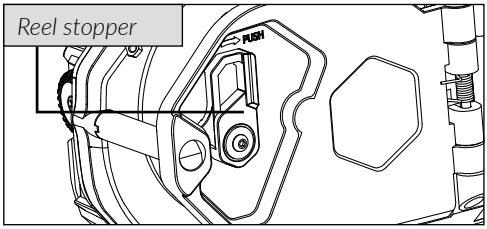
Use the adjusting knob to set tie tension at desire level (1=min tension / 10=max tension).

Loading Wire Coil

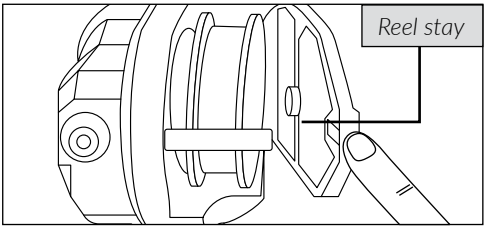
Warning - Ensure trigger lock is on, power is switched off and battery removed.



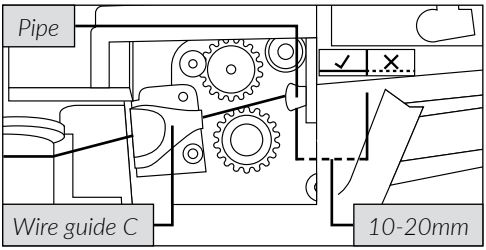
1. Push the release lever until it is caught by the release stopper.



2. Push the reel stopper to open the reel stay.

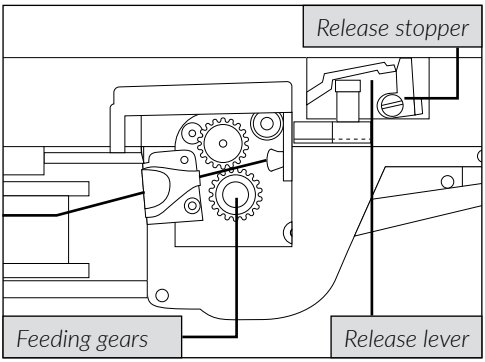


3. Insert the wire coil with the wire-end upwards and forward. Carefully close the reel stay and secure the reel stopper.



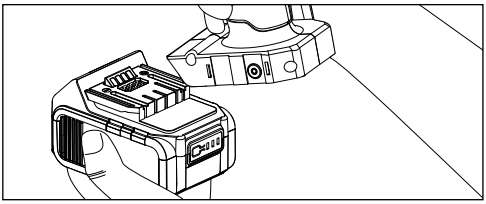
4. Insert the tip of the wire into wire guide C, through the gap of the feeding gears and all the way into the pipe (10-20 mm).

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.



5. Push the release stopper and make sure that the release lever is back in original position, and that the feeding gears are clamping the wire.

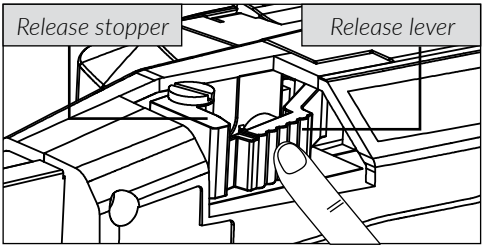
6. Make sure that the wire is tight and firm. Prevent the wire from curling up behind the wire coil. This may cause a jam.



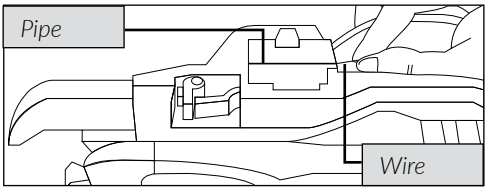
7. Insert battery into machine battery slot and set the main switch to ON. Release the trigger lock before starting to tie.

Replacing Wire Coil

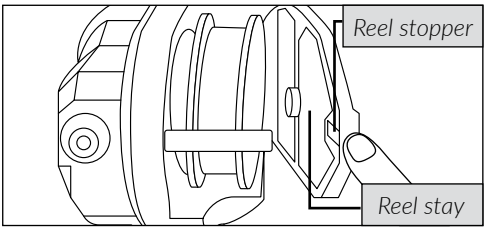
Warning - Ensure trigger lock is on, power is switched off and battery removed.



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

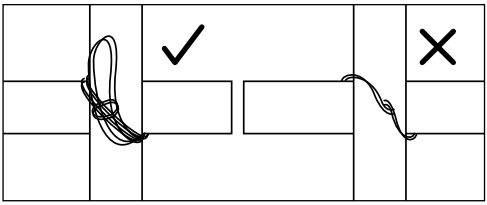


2. Remove the wire coil.



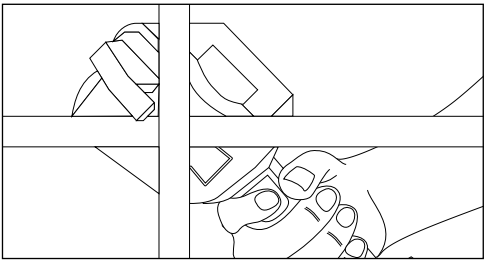
3. Push the reel stopper to release the reel stay and open it at the same time, remove the wire coil.

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

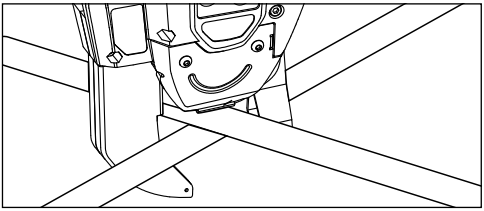


5. Perform a test tie, to check if the tie tension of set correctly.

Correct Usage

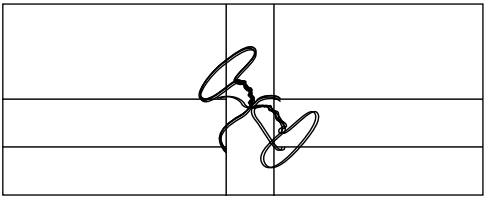


1. Place the arm A unit in a 45˚ angle over the rebar cross surface and push the mouth towards the rebar.



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

Warning - Do not move the machine while it is tying.



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