Engineering progress
Enhancing lives

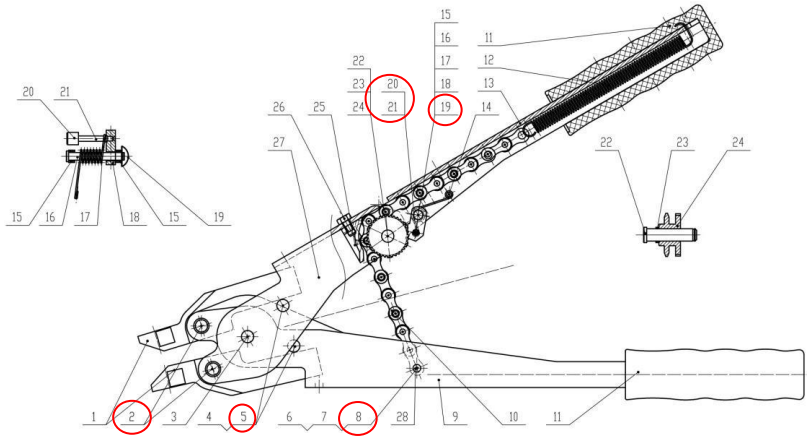
Read all the instructions provided before attempting to repair L1 tool.

If still unsure or confused, feel free to contact REHAU for clarification and advice.

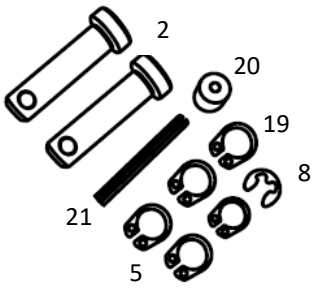
When handling tools, it is imperative to wear gloves and safety glasses. Ensure to tie up long hair if required.

L1 tool spare part kits #1 installation manual 108848-001

Diagram of L1 Tool:



Spare Kit 1 components:



No.	Name	QTY	No.	Name	QTY	No.	Name	QTY	No.	Name	QTY
01	Pressing Fork	2	08	Retaining-Ring	1	15	Copper Spacer	2	22	Pin	1
02	Locking Pin	2	09	Fixed Handle	1	16	Pin	1	23	Copper Spacer	1
03	Center Pin	1	10	Chain	1	17	Torsion Spring	1	24	Gear	1
04	Pin	2	11	Handle Grip	2	18	Pawl	1	25	Guide	1
05	Retaining-Ring	4	12	Tension Spring	1	19	Retaining-Ring	1	26	Screw	1
06	Pin	1	13	Down Moveable handle	1	20	Cap	1	27	Up Moveable handle	1
07	Copper Spacer	2	14	Hollow Pin	1	21	Hollow Pin	1	28	Copper Spacer	1

Prepare Tools

Long-Nose Pliers

Rubber Hammer

Retaining-Ring Pliers

Steel Hammer

Step 1: Disassemble L1 Handles

1. Gently hit handle grip (11) with a rubber hammer until the grip falls off the *down moveable handle* (13)

2. Loosen the hooked end of the *tension spring* (12) using long-nose pliers, then remove it from the *down moveable handle* (13)

3. Loosen the other hooked end of the *tension spring* (12), removing it from the *chain* (10)

4. Use retaining ring pliers to remove the *retaining-ring* from the *center pin*, (3) slightly opening the retaining-ring and taking it out.

5. Pull out the center pin (3), splitting the L1 tool into 2 parts: the *up moveable handle* (27), a *fixed handle* (9) with a *chain* (10), and the *down moveable handle* (13) with a *pawl* (18) and *gear* (24).

6. Remove the retaining-ring from the *pin* (22), then pull it out. Disconnect the *down moveable handle* (13) from the *up moveable handle* (27), *gear* (24), and *copper spacer* (23).



Step 2: Change the Pawl (18)

Before changing the *pawl* (18) it must be assembled with a *cap* (20), *hollow pin* (21) and *torsion spring* (17).

1. Place the *cap* (20) on a flat surface, then gently hit the end of the *hollow pin* (21) with a steel hammer until it slides into the *cap* (20).



2. Insert the *hollow pin* (21) into the shorter hooked end of the *torsion spring* (17)

3. Place the *pawl* (18) on a flat surface with the teeth facing upwards

4. Place the other end of the *hollow pin* (21) onto the small hole in the *pawl* (18), lightly hitting the *cap* (20) with a hammer until the hollow pin slides into the hole.

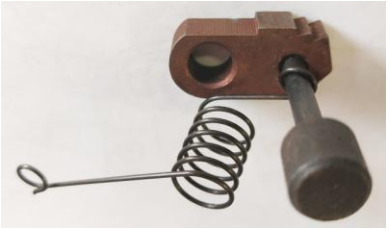



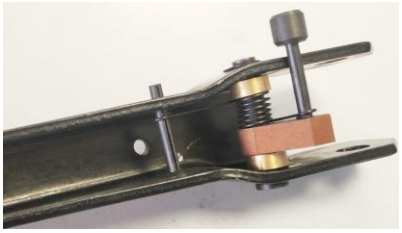
Figure 1: Pawl Assembly

Change the pawl assembly on the *down moveable handle* (13):

1. Get a round metal pole with a diameter slightly smaller than the hole for the hollow pin (14)

2. Place the pole against the end of the *hollow pin* (14) and lightly hit it with a steel hammer until the *hollow pin* (14) moves out a little, creating space between the *hollow pin* (14) and the inside surface of the *down moveable handle* (13) to take out the *torsion spring* (17) in the next step.



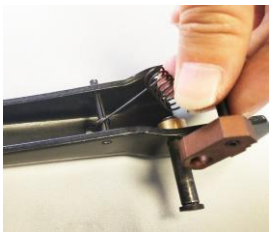
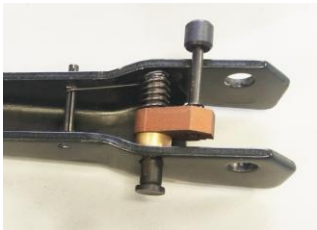


3. Remove the *retaining-ring* (19), then take out the *pin* (16), *pawl* (18), *torsion spring* (17) and *copper spacers* (15).


4. Gently insert the *pin* (16) into the hole , then put one *copper spacer* (15) onto the pin

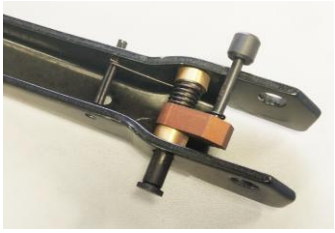
5. Get the new pawl assembly and slide the longer hooked end of the *torsion spring* (17) along the *hollow pin* (14).

6. Push the *pin* (16) through the larger hole in the *pawl* (18) and *torsion spring* (17). Note: do not fully push the *pin* (16) through- leave enough space for the other *copper spacer* (15)

7. Put the other *copper spacer* (15) between the *torsion spring* (17) and *down moveable handle* (13), aligning the hole of the *copper spacer* (15) with the *pin* (16).

8. Hit the *pin* (16) with a hammer until it has completely moved through the *copper spacers* (15), *pawl* (18), *torsion spring* (17), and *down moveable handle* (13). Then re-install the *retaining-ring* (19) (Note: Do not open the retaining ring too much to avoid possibly damaging it)



9. Test the pawl assembly by pushing the *cap* (20) with a finger; if the *pawl* (18) can move smoothly and springs back when the *cap* (20) is released, the pawl assembly has been properly installed.

10. Hit the hollow *pin* (14) with a steel hammer until the end of hollow *pin* (14) is flush with the outer surface of the *down moveable handle* (13).



Step 3: Re-assemble Handles

1. Holding the moveable handles, slide the *chain* (10) along the *gear* (24) into the moveable handles.

2. Align the center hole on the *fixed handle* (9) with the *up moveable handle* (27), then push the *center pin* (3) through and reinstall the *retaining ring*.



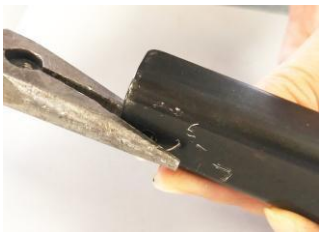
3. Use the long-nose pliers to loosen the hooked ends of the *tension spring* (12)

4. Thread the loose end of the *tension spring* (12) through the hole in the *chain* (10) and grip it with the long-nose pliers, tightly connecting the *tension spring* (12) with the *chain* (10).



5. Thread the loose end of the *tension spring* (12) through the hole on the *down moveable handle* (13), then use the long-nose pliers to grip the *spring* (12).





6. After re-installing the *handle grip* (11), the L1 Tool is ready for work.



For more information, please contact your REHAU representative or alternatively, contact us:

REHAU Pty Ltd (Australia)
Suite 1.02, Level 1, Quad 1, 8 Parkview Drive,
Sydney Olympic Park NSW 2127
Tel: 1300 768 033 / 02 8741 4500
Fax: 1300 760 665
Email: sales.au@rehau.com
Website: www.rehau.com.au

REHAU Ltd (New Zealand)
60B Cryers Road, East Tamaki 1701 Auckland, New Zealand
Tel: +64 9 272 2264
Fax: +64 9 272 2265
Email: sales.nz@rehau.com
Website: www.rehau.co.nz