



1190 Stellar Drive, Newmarket, Ontario Canada L3Y 7B7
(905) 836-0590 (905) 836-0577 - fax

Company Profile

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Strapping Machines
Replacement Parts

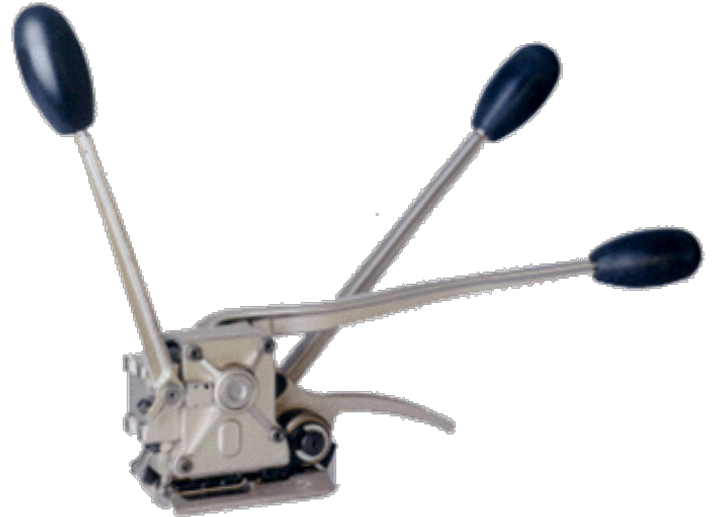
Services

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ZL25 OPERATION MANUAL

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SAFETY INSTRUCTIONS

Please read these instructions carefully. Failure to follow these instructions could result in severe injury.

1. Before using the tool, read the entire operation manual thoroughly.
2. Always wear safety glasses and face protection when operating the tool.
3. Always wear protective gloves when handling strapping.
4. Always use only  replacement parts from an authorized dealer.

These tools are designed for use with high tensile strapping and all parts are manufactured or treated for these extreme conditions. Performance of your tool will be affected if any other parts are used, which may cause injury.

SPECIFICATIONS

Weight:	10.6 lbs. (4.8 kg)
Base Length:	4.2" (105 mm)
Base Width:	2.4" (60 mm)
Height:	4.2" (105 mm)

Strapping Qualities:

Designed for use with regular duty strapping (107,000 psi / 750 N / mm²) to high tensile strapping (156,000 psi / 1100 N / mm²).

Model Number	Strap Width	Strap Thickness
ZL25-1	1/2" (13 mm)	*015"- .025" (0.38 mm - 0.635 mm)
ZL25-2	5/8" (16mm)	*015"- .025" (0.38 mm - 0.635 mm)

ZL25-3	3/4" (19mm)	*015"-.025" (0.38 mm - 0.635 mm)
		*015"-.019" (0.38 mm - 0.635 mm) requires knife ZR-0070.
This tool is not designed to be used with strapping above .025" (0.635 mm) thickness.		

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OPERATING INSTRUCTIONS

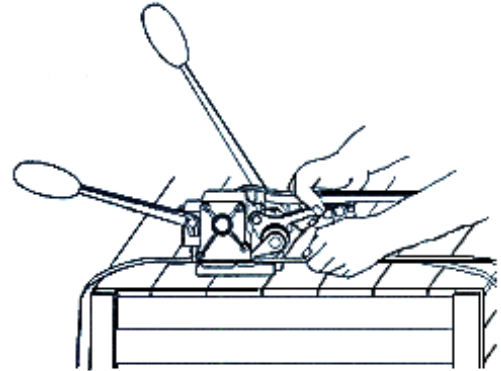
A

Place strapping tightly around the package and hold in place with left hand. Make sure lever ZL is in fully open position as shown in diagram.

Take tool with right hand and pull the feedwheel lever towards the sealing lever.

Insert both portions of the strap with left hand into the sealing section.

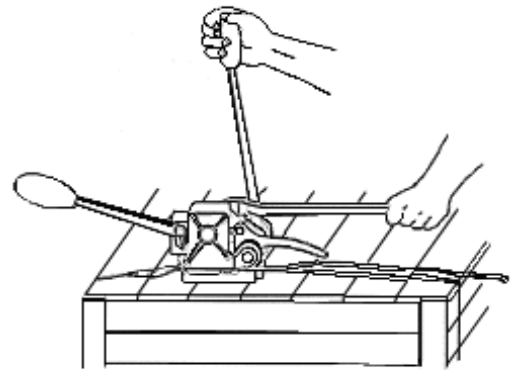
Release the feedwheel lever and make certain strapping is held by strap guide.



B

Hold tool firmly with left hand on the sealing lever.

With right hand move the tension lever forward and backward until the desired tension is obtained.

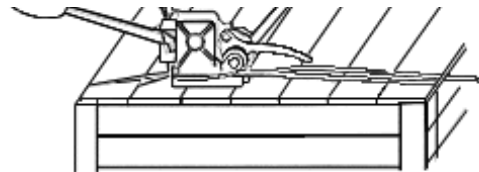


C

Place right hand firmly on the tension lever for supporting the tool.

With left hand push the sealing lever forward until it reaches the stop.

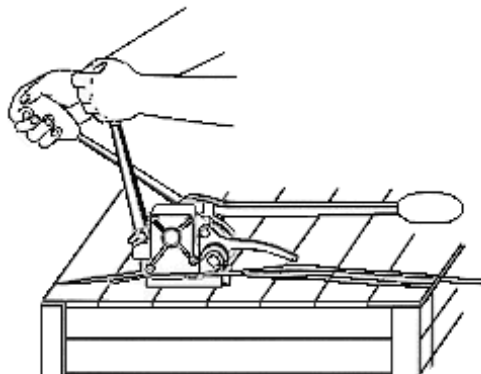


**D**

Move the sealing lever back to its original position.

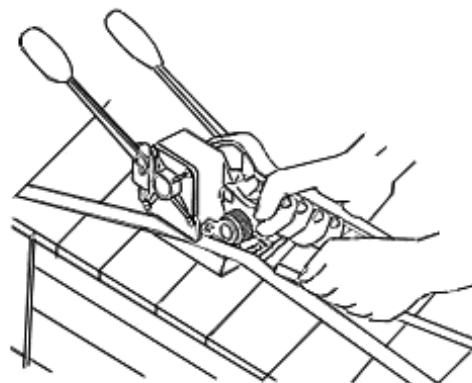
Place right hand firmly on the tension lever for supporting the tool.

With left hand pull lever ZL towards you until it reaches the stop.

**E**

Move the lever ZL back to fully open position as shown in the diagram.

To release the tool, with right hand pull the feedwheel lever towards the sealing lever, pushing the lever to the left away from the sealing section.



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MAINTENANCE

Clean the sealing section regularly with compressed air to remove any dust and particles.

Lubricate the die (position 16), punch (position 37) and punch ZL (position 31) daily with a thin grade of oil.

This will reduce friction and extend the life of the tool as well as the parts.

Spray the entire tool daily with a rust preventative, this will prevent any rust formation.

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ADJUSTMENTS**TO ADJUST SEALING DEPTH**

Loosen nut (position 44), adjust hexagon socket set screw (position 61) with a hexagon key, turn counter clockwise to increase sealing depth, or turn clockwise to decrease sealing depth, retighten nut.

TO ADJUST CLEARANCE BETWEEN THE FEEDWHEEL (POSITION 5) AND GRIPPER (POSITION 38)

The clearance between the feedwheel and the gripper should be .012" (.31 mm). If the clearance is more or less than this, it must be adjusted.

To reduce the clearance: loosen nut (position 44A), turn hexagon socket set screw (position 43) counter clockwise with a ball hexagon key, retighten nut.


To increase the clearance: loosen nut (position 44A), turn hexagon socket set screw (position 43) clockwise with a ball hexagon key, retighten nut.

TO ADJUST SEALING DEPTH FOR LEVER ZL (POSITION 25)

Loosen nut (position 27), adjust hexagon socket screw (position 26) with a hexagon key, turn counter clockwise to increase sealing depth, or turn clockwise to decrease sealing depth, retighten nut.

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REPLACEMENT OF PARTS

Note: If you are not familiar with the following replacement procedures, please contact your authorized  dealer for a demonstration or for service.

To Replace The Feedwheel (Position 5)

1. Remove external retaining ring (position 3).
2. Remove tensioning assembly (consisting of tension lever (position 11) and feedwheel shaft (position 2)).
3. Install new feedwheel with the "O" marking facing the strap guide (position 4), reinstall tensioning assembly observing the key way position during assembly.
4. Reposition strap guide onto the protruding feedwheel shaft.
5. Reinstall external retaining ring.

To Replace The Gripper (Position 38)

Note: The gripper is held in a nonadjustable position with spring tension pin (position 39).

1. To remove gripper, use drift pin matching the dimension of the spring tension pin (position 39) and drive the spring tension pin into the tool base, until the gripper comes loose from its position.
2. Lift feedwheel lever (position 7) to access gripper.
3. Clean cavity area and add one drop of a thin grade of oil in the cavity.
4. To install new gripper, place the gripper into the cavity of the tool base. Reinstall the spring tension pin and drive it into the hole of the tool base, until it is flush with the tool base.

To Replace The Knife (Position 17)

1. Remove housing cover ZL (position 68), by removing 3 hexagon socket shoulder screws (position 66) and 1 hexagon socket shoulder screw (position 65).
Important: This screw in position 65 must be reinstalled in this exact position (lower left hand corner) as it is shorter. It must also sit flush against the housing cover ZL when reinstalled
2. With pliers, pull knife from slot on die and knife block (position 13).
3. Install new knife observing spring tension pin (position 18) aligns with same slot on die and knife block.
4. Make certain that the area is clean and well greased with white grease.
5. **Important: Make certain that the roller (position 79) is in its position.**
6. Reinstall housing cover ZL, then reinstall hexagon socket shoulder screws with a drop of Loctite* No. 222 on the thread of each screw.

To Replace The Punch (Position 37)

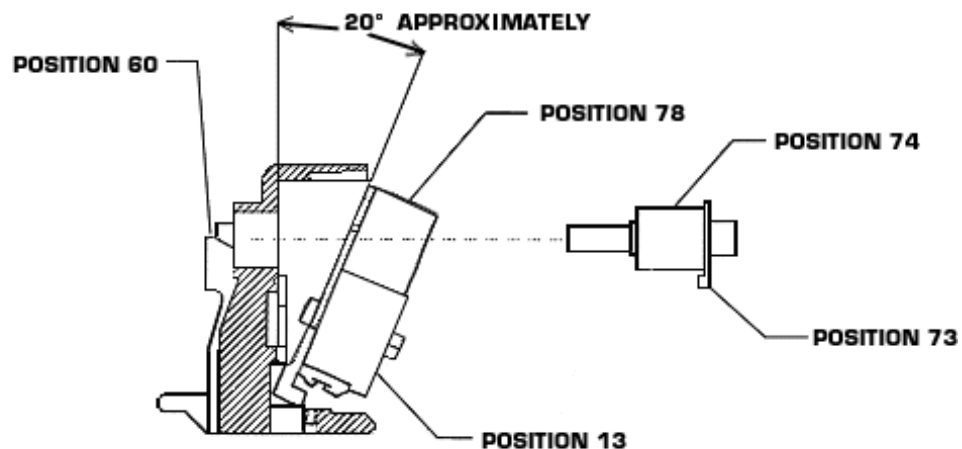
1. Remove 2 cheese head machine screws (position 35) located on the underside of the housing (position 60).

- Remove punch, clean area, replace with new punch, then reinstall cheese head machine screws with a drop of Loctite* No. 222 on the thread of each screw.

To Replace The Die (Position 16)

- Remove housing cover ZL (position 68), by removing 3 hexagon socket shoulder screws (position 66) and 1 hexagon socket shoulder screw (position 65).
Important: This screw in position 65 must be reinstalled in this exact position (lower left hand corner) as it is shorter. It must also sit flush against the housing cover ZL when reinstalled
- Remove sealing lever (position 64), by loosening hexagon socket cap screw (position 63).
- Remove woodruff key (position 1).
- Remove eccentric shaft (position 74).
- Remove the total internal assembly by tilting it at a 20 degree angle (see diagram below) and pull out with pliers by eccentric shaft plunger (position 78), at the same time making sure to hold internal assembly together with other hand, exposing die on the underside of the die and knife block (position 13).
- Remove 2 cheese head machine screws (position 15).
- Remove die, clean area, and replace with new die, then reinstall cheese head machine screws with a drop of Loctite* No. 222 on the thread of each screw.
- To reinstall the internal assembly follow the installation of internal assembly instructions below.
- Reinstall the eccentric shaft observing its relative position to the cam (position 47).
- The cam lever (position 73) must engage with its tip into the cavity of the cam. The components should align together and operate smoothly, please do not force the parts together.
- Make sure area is clean and well greased with white grease.
- Important: Make certain that the roller (position 79) is in its position.**
- Reinstall housing cover ZL, then reinstall hexagon socket shoulder screws with a drop of Loctite* No. 222 on the thread of each screw.
- Reinstall woodruff key and sealing lever.

Removal of Internal Assembly ZL25



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Installation of Internal Assembly ZL25

Figure 1A

Place the cam as per drawing, with the long width sitting flat in the die and knife block. Add white grease throughout. Then place the eccentric shaft plunger on top of the cam and fasten by pushing the connection pin, position 19 (making sure the groove on this pin is facing the outside of the die and knife block) through hole in die and knife block and into like hole on eccentric shaft plunger.

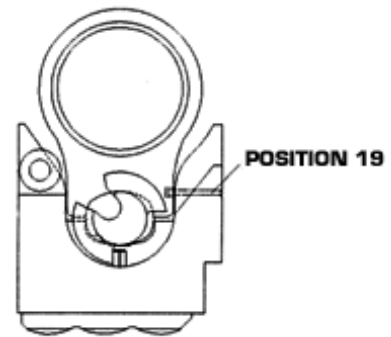


Figure 1B

Tilt the internal assembly approximately 20 degrees and place into housing making sure the back up hook is sitting in its slot in the housing.

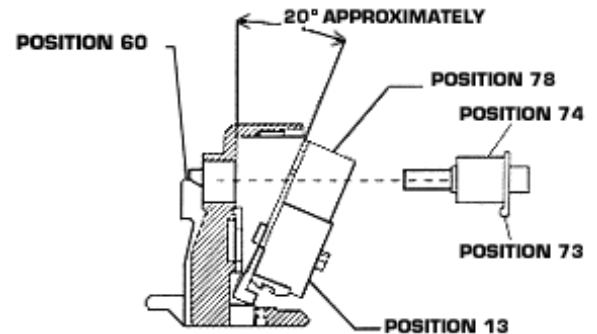


Figure 1C

Make sure the cam lever is attached to the eccentric shaft. Then push it through the hole of eccentric shaft plunger and the housing until it is flush.

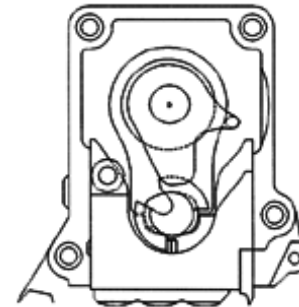


Figure 1D

Turn the cam with pliers in a clockwise direction until it sits in position shown in this drawing.

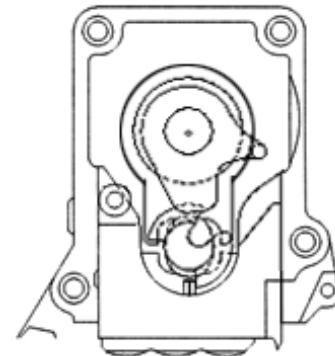
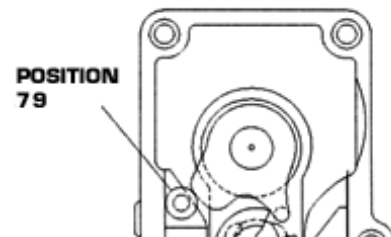


Figure 1E

Turn cam lever in a clockwise direction with fingers until it sits in front of the cavity of the cam.

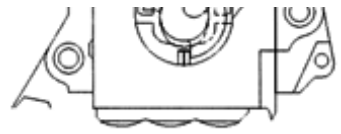
Important: Make certain that the roller (position 79) is in its position.



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Then install the housing cover and the sealing lever making sure they sit properly and operate smoothly, do not force.



To Replace The Lower Cutter ZL25 (Position 57)

1. Remove cheese head machine screw (position 15A) located on the underside of the housing (position 60).
2. With small flathead screwdriver push out lower cutter ZL25 from its position.
3. Install and position new lower cutter ZL25 making sure the thinner end faces toward outside of housing.
4. Reinstall cheese head machine screw with a drop of Loctite* No. 222 on the thread of each screw.

To Replace the Punch ZL (Position 31)

1. Remove lever ZL (position 25) by loosening hexagon socket cap screw (position 24).
2. Remove woodruff key (position 29).
3. Remove lock housing assembly ZL by removing 4 hexagon socket cap screws (position 54) and 2 hexagon socket cap screws (position 53).
4. Remove lock housing cover ZL (position 34).
5. Remove open link ZL (position 52) and link pin (position 50).
6. Remove punch ZL, replace with new punch ZL, then reinstall link pin and open link ZL.
7. Make certain that the area is clean and well greased with white grease. Attach lock housing cover ZL. Then reattach lock housing assembly ZL to front of housing (position 60).

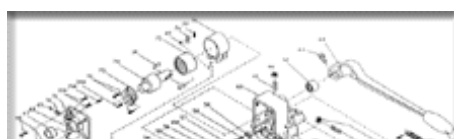
To Replace The Compression Spring (Position 70) and Ball (Position 69)

1. Remove housing cover ZL (position 68), by removing 3 hexagon socket shoulder screws (position 66) and 1 hexagon socket shoulder screw (position 65).
Important: This screw in position 65 must be reinstalled in this exact position (lower left hand corner) as it is shorter. It must also sit flush against the housing cover ZL when reinstalled.
2. Remove spring holder ZL (position 71) by removing 2 cheese head machine screws (position 15B) from the inside of housing cover ZL.
3. Remove compression spring, then ball and replace with new in this order.
4. Reinstall spring holder ZL to housing cover ZL with cheese head machine screws and add a drop of Loctite* No. 222 on the thread of each screw.
5. **Important: Make certain that the roller (position 79) is in its position.**
6. Reinstall housing cover ZL, then reinstall hexagon socket shoulder screws with a drop of Loctite* No. 222 on the thread of each screw.
7. Reinstall woodruff key and lever ZL.

*Loctite is a registered trademark of the Loctite Corporation.

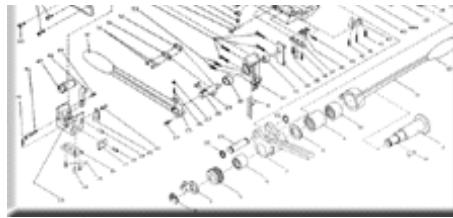
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ZL25 DIAGRAM



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This Diagram is available in a Portable Document Format (PDF) file. To view it, you need to have Adobe Acrobat Reader version 4.0 installed on your system. Acrobat Reader is available as a free download from the Adobe Acrobat Reader site.

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ZL25 PARTS LIST

Position	Part Number	Part Name	Parts per Tool
1,1A	ZR-0001	Woodruff Key	2
2	ZR-0002	Feedwheel Shaft	1
3	ZR-0003	External Retaining Ring	1
4	ZR-0004	Strap Guide 1/2" (13 mm)	1
4	ZR-0005	Strap Guide 5/8" (16 mm)	1
4	ZR-0006	Strap Guide 3/4" (19 mm)	1
5	ZR-0007	Feedwheel 25	1
6	ZR-0008	Roller Bearing	1
7	ZR-0009	Feedwheel Lever	1
8	ZR-0010	Washer	1
9	ZR-0011	Roller Clutch and Bearing Assembly	1
10	ZR-0012	Roller Clutch	1
11	ZR-0013	Tension Lever	1
12	ZR-0014	Handle	3
13	ZR-0015	Die and Knife Block	1
14	ZR-0016	Dowel Pin	2
15, 15A, 15B	ZR-0017	Cheese Head Machine Screw	5
16	ZR-0018	Die 1/2" (13 mm)	1
16	ZR-0019	Die 5/8", 3/4" (16mm, 19mm)	1
17	ZR-0020	Knife (Includes ZR-0021)	1
17	ZR-0070	Knife 15-for strap thickness of .015"-.019" (0.38-0.48mm) only. (Includes ZR-0021)	1
18	ZR-0021	Spring Tension Pin	1
19	ZR-0022	Connection Pin	1
20	ZR-0023	Back Up Hook	1
21	ZR-0024	Spring Tension Pin	2

22	ZR-0025	External Retaining Ring	2
23	ZR-0026	Shaft	1
24	ZR-0203	Hexagon Socket Cap Screw	1
25	ZR-0200	Lever ZL	1
26	ZR-0206	Hexagon Socket Set Screw	1
27	ZR-0208	Nut	1
28	ZR-0207	Eccentric Shaft ZL	1
29	ZR-0213	Woodruff Key	1
30	ZR-0214	Bronze Bushing	1
31	ZR-0212	Punch ZL	1
32	ZR-0209	Lock Housing ZL	1
33	ZR-0215	Bronze Bushing	1
34	ZR-0217	Lock Housing Cover ZL	1
35	ZR-0027	Cheese Head Machine Screw	2
36	ZR-0028	Dowel Pin	2
37	ZR-0029	Punch 1/2" (13mm)	1
37	ZR-0030	Punch 5/8", 3/4" (16mm, 19mm)	1
38	ZR-0031	Gripper	1
39, 39A	ZR-0032	Spring Tension Pin	2
40	ZR-0033	Cheese Head Machine Screw	2
41	ZR-0034	Spring Tension Pin	2
42	ZR-0035	Strap Stop Front 1/2" (13mm)	1
42	ZR-0036	Strap Stop Front 5/8" (16mm)	1
42	ZR-0037	Strap Stop Front 3/4", 1 1/4" (19mm, 32mm)	1
43	ZR-0038	Hexagon Socket Set Screw	1
44, 44A	ZR-0039	Nut	2
45	ZR-0040	Extension Spring	1
46	ZR-0041	Hexagon Socket Cap Screw	1
47	ZR-0042	Cam	1
48	ZR-0045	Die Block Back Up	1
49	ZR-0046	Spring Tension Pin	1
50	ZR-0216	Link Pin	2
51	ZR-0210	Closed Link ZL	1
52	ZR-0211	Open Link ZL	1
53	ZR-0220	Hexagon Socket Cap Screw	2
54	ZR-0221	Hexagon Socket Cap Screw	4
55	ZR-0047	Spacer	1
56	ZR-0048	Pin	1
57	ZR-0201	Lower Cutter ZL25	1
58	ZR-0049	Strap Stop Rear 1/2" (13mm)	1
58	ZR-0050	Strap Stop Rear 5/8" (16mm)	1
58	ZR-0051	Strap Stop Rear 3/4" (19mm)	1
59	ZR-0052	Nut	1
60	ZR-0218	Housing ZL25	1

61	ZR-0054	Hexagon Socket Set Screw	1
62	ZR-0055	Roller Bearing	1
63	ZR-0056	Hexagon Socket Cap Screw	1
64	ZR-0057	Sealing Lever	1
65	ZR-0223	Hexagon Socket Shoulder Screw	1
66	ZR-0058	Hexagon Socket Shoulder Screw	3
67	ZR-0059	Roller Bearing	1
68	ZR-0204	Housing Cover ZL	1
69	ZR-0043	Ball	2
70	ZR-0224	Compression Spring	1
71	ZR-0205	Spring Holder ZL	1
72	ZR-0061	Cheese Head Machine Screw	2
73	ZR-0078	Cam Lever	1
74	ZR-0063	Eccentric Shaft	1
75	ZR-0064	Roller Bearing	1
76	ZR-0044	Compression Spring	1
77	ZR-0075	Spring Tension Pin	1
78	ZR-0065	Eccentric Shaft Plunger (Includes ZR-0043, ZR-0044, ZR-0064, ZR-0075)	1
79	ZR-0076	Roller	1
80	ZR-0077	Roller Pin	1
--	ZR-0225	Operation Manual and Parts List for ZL25 Series Tools.	1

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