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Item: **H45-60161 Push Button**

Document: **Installation Guide**

In connection with: **Automatic Strapping Machine**

Battery-Powered Manual Tool

(For P.P. and PET Strap)

Edition/date/Initials: A 021121 CZA





Part images:

Support 24/7: Hallbrookcomponents.com support team is ready 24/7, use online Zendesk, phone or email. Details later in this guide.

Index:

1. General information
2. Maintenance Instructions
3. Requirements to do the repair and assembly
4. Spare Parts dismantling and assembly on TP-702 Automatic Strapping Machine
5. Spare Parts dismantling and assembly on H-45L Battery-Powered Manual Tool
6. Test of machine/tool
7. Ordering the part
8. Additional options for H-45L Tool
9. Hallbrookcomponents.com 24/7 support and contact information
10. Hallbrookcomponents.com your partner in packaging
11. Disclaimer

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1. General Information

This document is a guide for H45-60161 Push Button. Listed below are the tools which are compatible to the H45-60161 Push Button spare part:

- STEP TP-702-59 Part no.: 41190125

H45-60161 Push Button an alternative for H45-60160 Sealing Switch (Semi) with the ff:

- STEP TP-702-12 Part no.: 41192222
- H-45L-12 Battery Tool w.1 battery &1charger Part no.: 41211010
- H-45L-16 Battery Tool w.1 battery &1charger Part no.: 41211030







2. Maintenance Instructions

For STEP TP-702

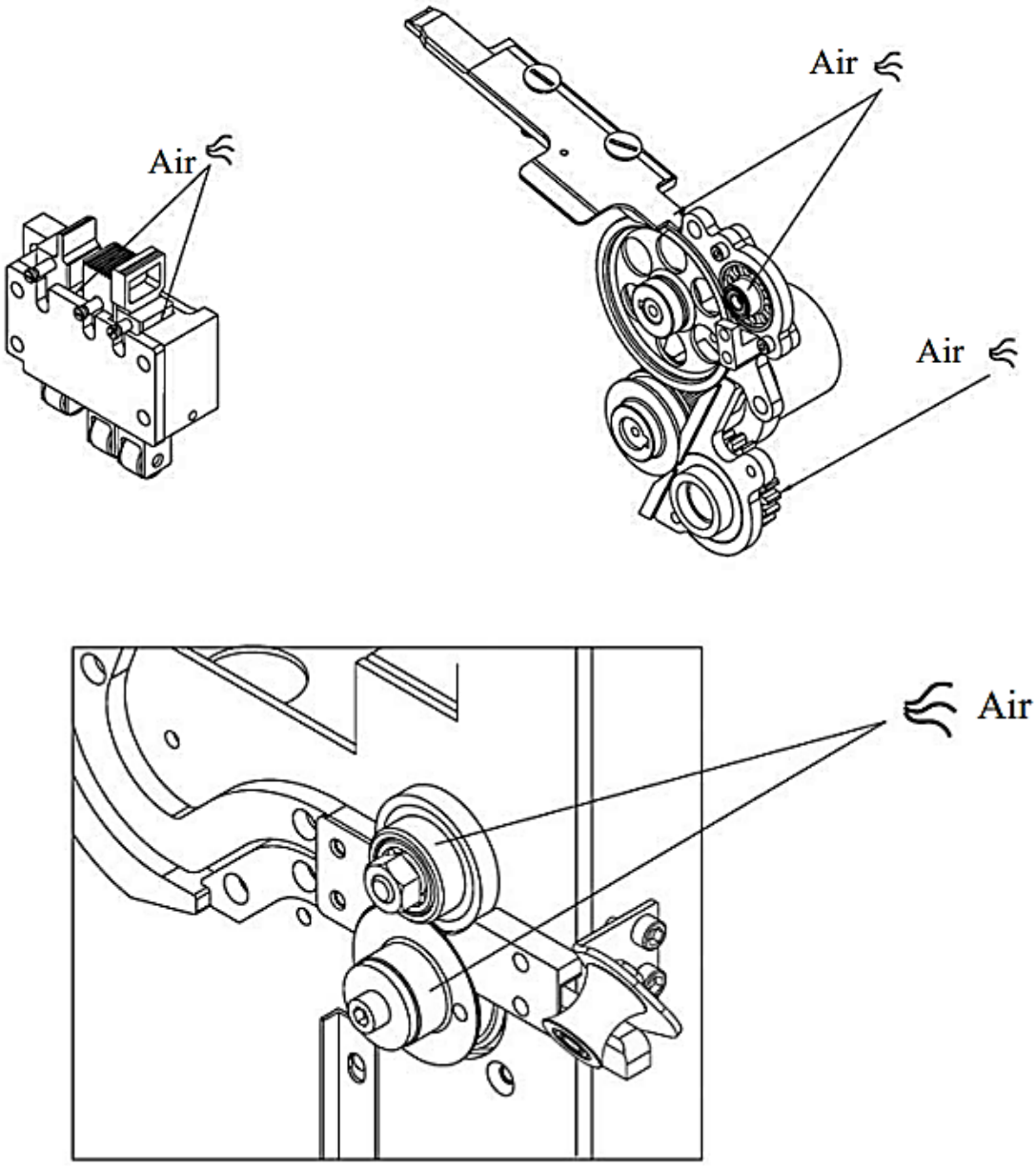
Warning: Before any maintenance or repairs on the machine, set the Main Power Switch to "O" (OFF). Wait about 5 minutes for cooling down the heater to avoid burns with this area.

1. Cleaning and Lubrication, The high reliability and long service life of the strapping machine will depend on regular cleaning and maintenance.
   ATTENTION!
   All the important strap transportation components, such as the drive rollers and the strap guides, must be kept free from oil and grease (lubricant).
   The lubricant has to be non-resinous. The lubricant is SAE 30
2. Maintenance. Only use original spare parts supplied by manufacturer.



Daily: Use air gun to clean the following indicated positions (nearby the cutters, strap guide and accumulating feeding rollers) daily. Remove plastic residue in the machine.

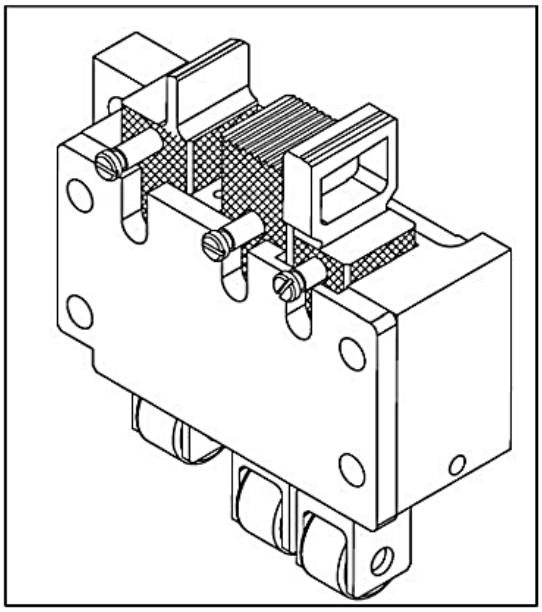
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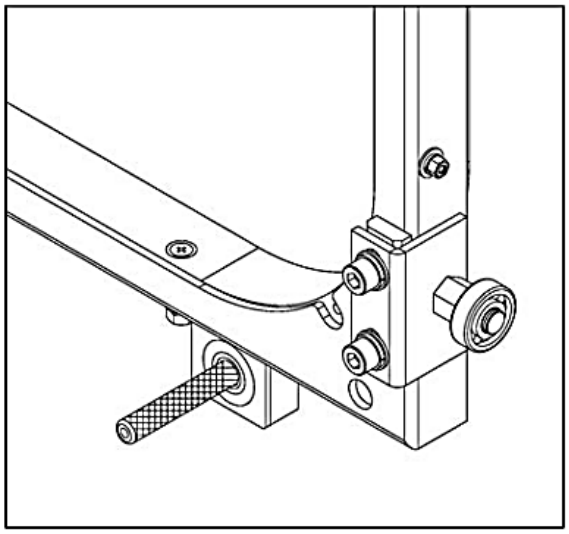


Weekly: Lubricate front bar, press bar, rear bar and shafts in arch weekly. Please refer to the following mesh areas for instruction.

Before lubricating, be sure to clean the parts first to avoid mixing oil and debris which might have a bad effect on machine's function.

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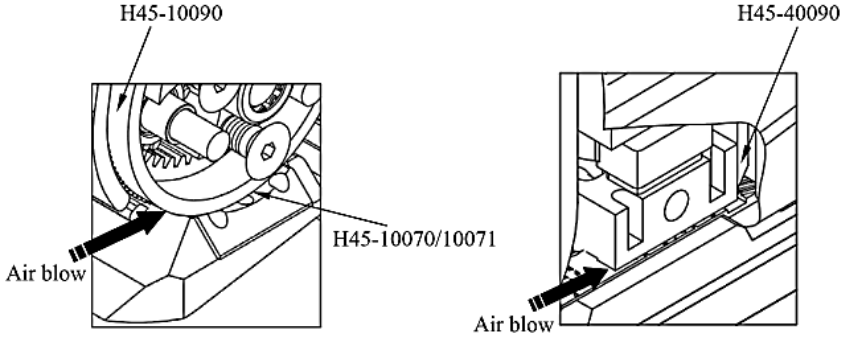
Check the machine by strapping several bundles for any failures.
Monthly : (or 100,000 strapping cycles) Clean both sides of heater plate and polish with fine sandpaper if necessary

ATTENTION: Make sure the welding plate is cool first!! Check Front Bar, Press Bar, and Rear Bar for moving upward and downward neatly. The Slide Table and Strap Track Frame should be able to go back to its home position by the force of spring as well. Be sure to clean any debris in the tension roller

For H-45L

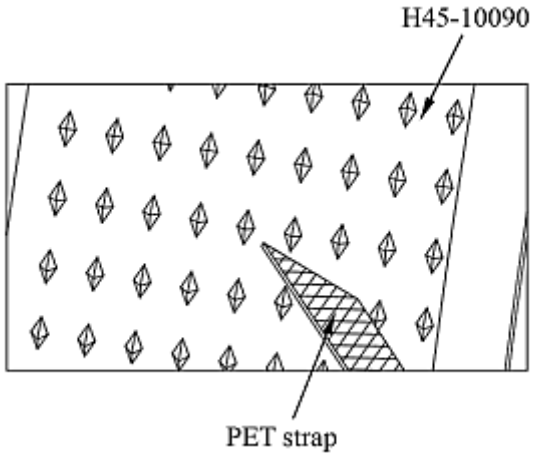
<u>Important: Take off the battery before opening the tool or start a maintenance</u>

- Use an air gun to clean the area around the Tensioning Wheel (H45-10090) and Gripper (H45-10070/H45-10071) and the area around the Cutter (H45-40090) daily. Be sure to use the air gun by blowing the debris from the left side to avoid getting inside the tool.



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- If air gun could not dislodge the debris between the teeth of the Tensioning Wheel (H45-10090), PET (or other plastic) is suggested to dislodge the debris by lightly stroking the tip. Please do not use any metal material or hard material to avoid any damage to the teeth.



3. Requirements to do the repair and assembly of part(s)

For STEP TP-702

”Warning: Before any maintenance or repairs on the machine, set the Main Power Switch to "O" (OFF). Wait about 5 minutes for cooling down the heater to avoid burns with this area.”

For H-45L

Tool must not be used or repaired by persons not properly trained or knowledgeable with the assembly. Failure to follow the operating and assembly instructions or improper load positioning could result in strap breakage. Become familiar with the tool and keep fingers away from areas that can pinch or cut.

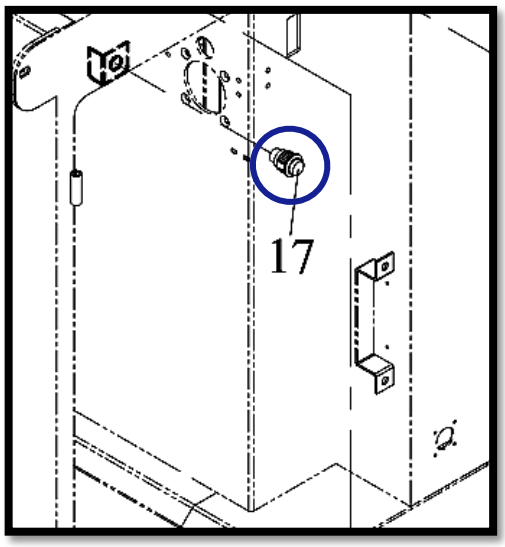
If in doubt contact our support team for further guidance and advice.

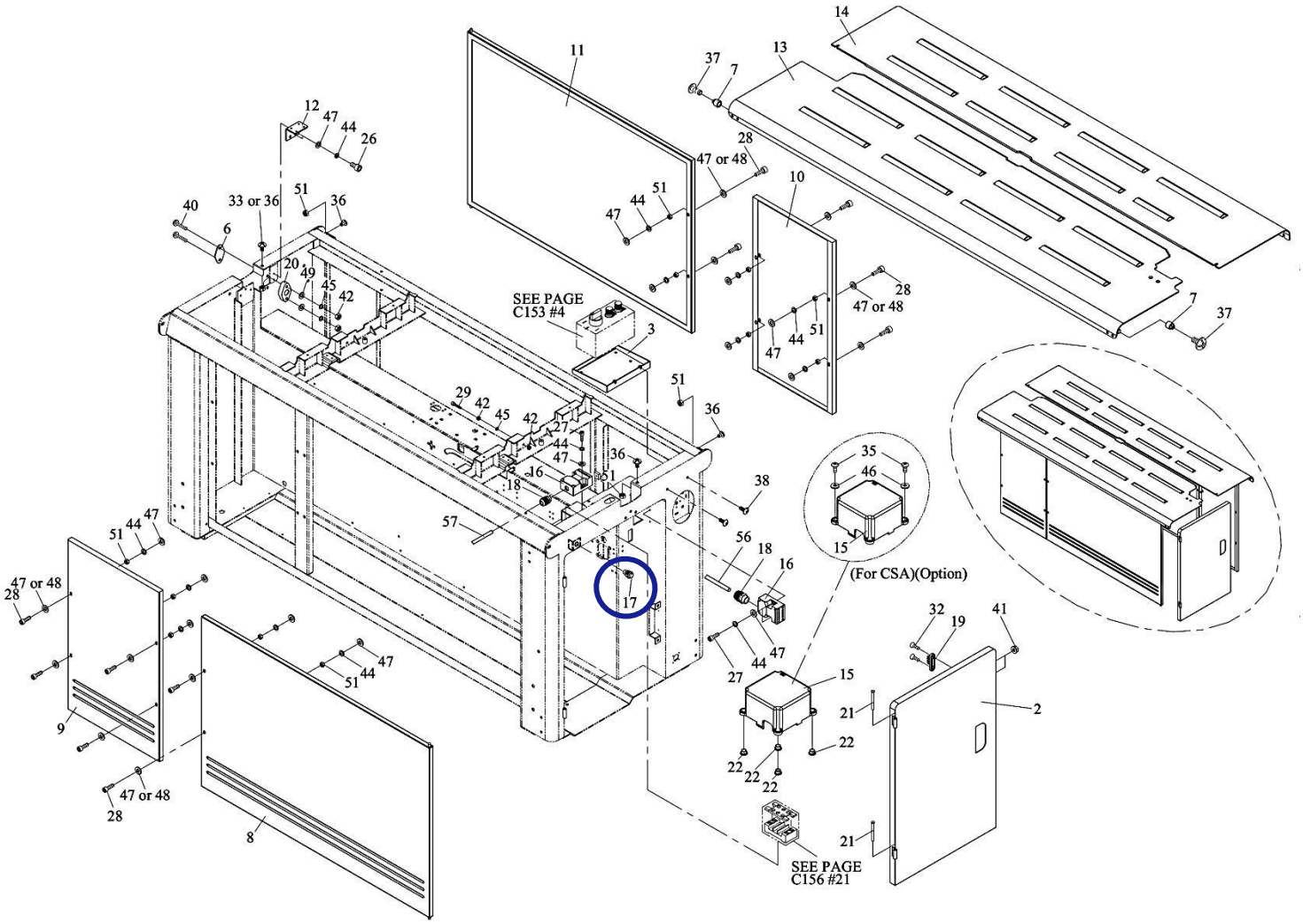
4. Spare Parts dismantling and assembly of H45-60161 Push Button on TP-702 Automatic Strapping Machine

H45-60161 Push Button is installed in the Cover Group (M7-5-200062/M7-5-200072)

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The H45-60161 Push Button position 17, with the full assembly of the Cover Group for TP-702-59 consists of:





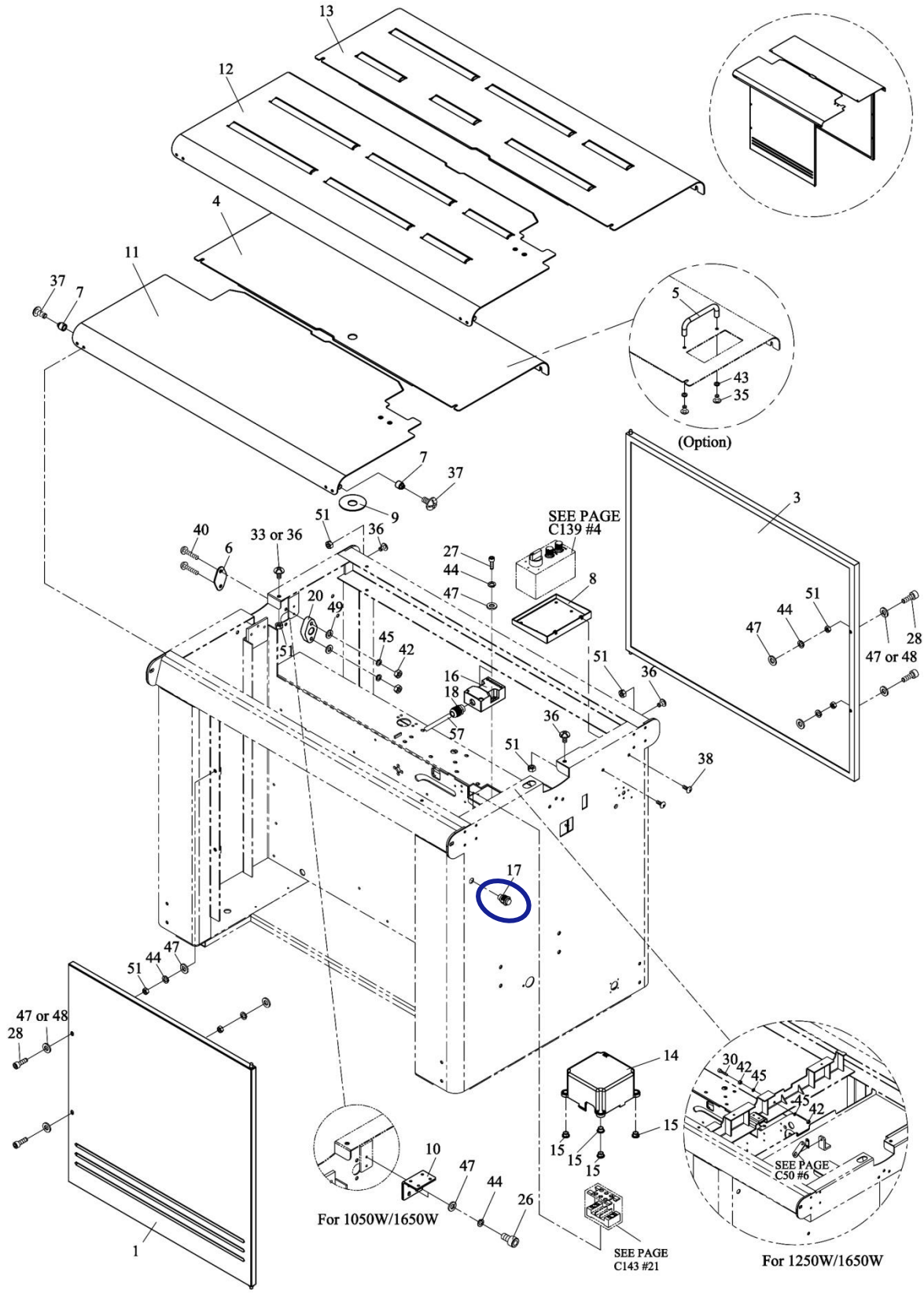
Position	Parts no.	Description	Qty
	M7-5-200002	Cover Group (For 5-6mm, 550W)	1
	M7-5-200002S	Cover Group (Stainless Steel, For 5-6mm, 550W)	1
	M7-5-200012	Cover Group (For 9mm, 550W)	1
	M7-5-200012S	Cover Group (Stainless Steel, For 9mm, 550W)	1
	M7-5-200022	Cover Group (For 5-6mm, 650W)	1
	M7-5-200022S	Cover Group (Stainless Steel, For 5-6mm, 650W)	1
	M7-5-200032	Cover Group (For 9mm, 650W)	1
	M7-5-200032S	Cover Group (Stainless Steel, For 9mm, 650W)	1
	M7-5-200042	Cover Group (For 5-6mm, 850W/1050W)	1
	M7-5-200042S	Cover Group (Stainless Steel, For 5-6mm, 850W/1050W)	1
	M7-5-200052	Cover Group (For 9mm, 850W/1050W)	1
	M7-5-200052S	Cover Group (Stainless Steel, For 9mm, 850W/1050W)	1
	M7-5-200062	Cover Group (For 5-6mm, 1250W)	1
	M7-5-200062S	Cover Group (Stainless Steel, For 5-6mm, 1250W)	1
	M7-5-200072	Cover Group (For 9mm, 1250W)	1
	M7-5-200072S	Cover Group (Stainless Steel, For 9mm, 1250W)	1
	M7-5-200082	Cover Group (For 5-6mm, 1650W/1850W)	1
	M7-5-200082S	Cover Group (Stainless Steel, For 5-6mm, 1650W/1850W)	1
	M7-5-200092	Cover Group (For 9mm, 1650W/1850W)	1

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	M7-5-200092S	Cover Group (Stainless Steel, For 9mm, 1650W/1850W)	1
2	M7-5-201201 M7-5-201201S	Side Door Side Door (Stainless Steel)	1 1
17	H45-60161	Push Button	1

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The H45-60161 Push Button as an alternative for H45-60160 Sealing Switch position 17, with the full assembly of the Cover Group for TP-702-12 consists of:



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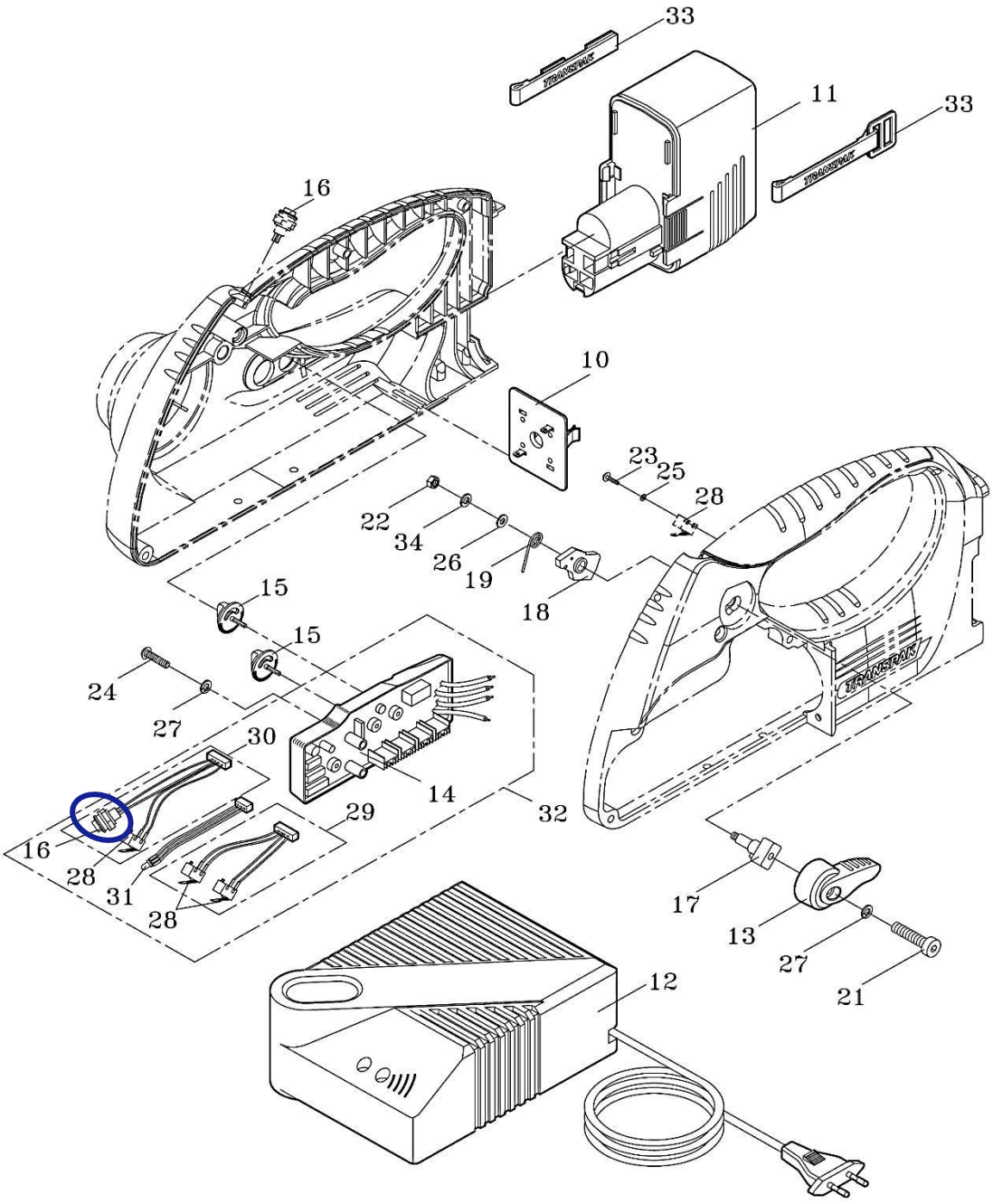
Position	Parts no.	Description	Qty
	M7-5-200112	Cover Group (For 650W)	1
	M7-5-200112S	Cover Group (Stainless Steel, For 650W)	1
	M7-5-200122	Cover Group (For 850W)	1
	M7-5-200122S	Cover Group (Stainless Steel, For 850W)	1
	M7-5-200132	Cover Group (For 1050W)	1
	M7-5-200132S	Cover Group (Stainless Steel, For 1050W)	1
	M7-5-200142	Cover Group (1250W)	1
	M7-5-200142S	Cover Group (Stainless Steel, For 1250W)	1
	M7-5-200152	Cover Group (1650W)	1
	M7-5-200152S	Cover Group (Stainless Steel, For 1650W)	1
17	H45-60160	Sealing Switch	1
	H45-60161	Push Button (alternative)	1

5. Spare Parts dismantling and assembly of H45-60161 Push Button on H-45L Battery-Powered Tool

H45-60161 Push Button as an alternative for H45-60160 Sealing Switch is connected to the Start/Sealing Wires Ass'y (H45-60220) in the Electric Control group (H45-60240).

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The H45-60161 Push Button as an alternative for H45-60160 Sealing Switch position 16, with the full assembly of the Battery Unit for H-45L consists of:



Position	Parts no.	Description	Qty
	H45-60000	Battery Unit (For 230V/220V/240V)	1
	H45-60001	Battery Unit (For 110V)	1
14	H45-60141	Control Box (PCB)	1
	H45-60160	Sealing Switch (Semi)	1
16	H45-60161	Push Button (alternative)	1
28	H45-20090	Micro Switch	3
29	H45-60210	Position Wires Ass'y	1
30	H45-60220	Start/Sealing Wires Ass'y	1
31	H45-60230	LED Wire	1
32	H45-60240	Electric Control Group	1

6. **Test of machine/tool installation of new parts with old parts**

On H-45L Battery-Powered Manual Tool: Once the machine is assembled secure the tool is clean, oiled and is ready to use.

On TP-702 Strapping Machine:

The LCD display would flash and show failure message when machine is not working due to malfunction.

Message shown on the LCD could be follows:

1. Reminder message:
   a. Push Start: Please press the Start Switch to make machine function. This is especially necessary after the Safety Switch is released or after you just turn on the machine.
   b. Load Strap: Load a new roll of strap or re-do the Auto Strap feeding again.
   c. B6 open; K1 open: When it shows this message after you press the Start Switch, it means the Safety Switch might not be closed or the K1 in the control box is abnormal.
2. Malfunction from switches:
   a. S1 Error: This means the Start Switch or the Foot Pedal is continuously triggered before activating them. Please check if any of these 2 Switches is defective.
   b. S5 Error: This means the Reel Release Switch is continuously triggered before activating it. Try to press it by hand to see if it's defective.
   c. SQ1 on Error: The SQ1 is triggered when doing Auto Strap Feeding. Check if the SQ1 or the Switch lever is defective.

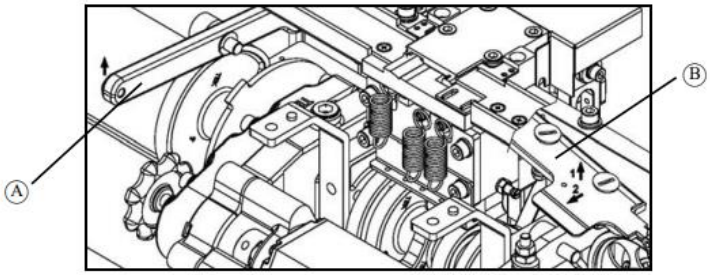
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d. SQ9 failure: Foot bar is not able to function properly and cause it not able to go back to home position.

3. Malfunction from procedures:

a. ASF failed: Auto Strap Feeding failed. It might be caused by wrong inserting direction or inserting too much strap. Please re-do the Auto Strap Feeding.

b. Feed jam: Resulting from not being able to feed strap to the sealing position. When Feed jam occurs, press the Start Switch or Foot bar first to let the arch open and strap comes out of the arch. Hold the strap by left hand and then press the Start Switch or Foot bar again. Machine would reverse the strap a little bit and cut it, and then machine would go back to home position and feed again. If this does not solve the problem, please take out the jammed strap by following steps:



b-1. Open Upper Table Front Ass'y M7-5-210001/M7-5-220001.

b-2. Lift up the Lever ○A (M7-2-101400/M7-2-101410) with left hand and take out the Cover ○B (M7-1-311201/M7-1-311211) for the Upper Guide with right hand at the same time.

b-3. Take out the jammed strap and cut it.

b-4. Put the cover (M7-1-311201/M7-1-311211) for the Upper Guide back to its position and put the Upper Table Front Ass'y back as well. Push START switch in the control panel to RESTART machine.

If problem still cannot be solved double check the manual for the following causes that have to be checked as well. You can also contact our support team for further guidance and advice.

7. **Ordering spare parts:**

Purchase planning when exchanging the H45-60161 Push Button.

Link to order H45-60161 Push Button:
https://hallbrookcomponents.com/h-45l-helios-battery-powered-strapping-tool/5056-h45-60161-push-button.html

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8. Options for Battery Tool H-45L

- Bosch AL15FC 2498 H45 Charger Part no.: 41211120
- 45 Turntable Suspension Bracket Part no.: 41211100
- H45 Stiff Suspension Bracket Part no.: 41211110
- Bosch H45L Battery Li-Ion Part no.: 41211140

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