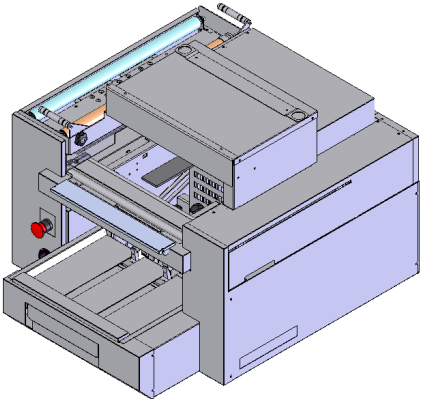



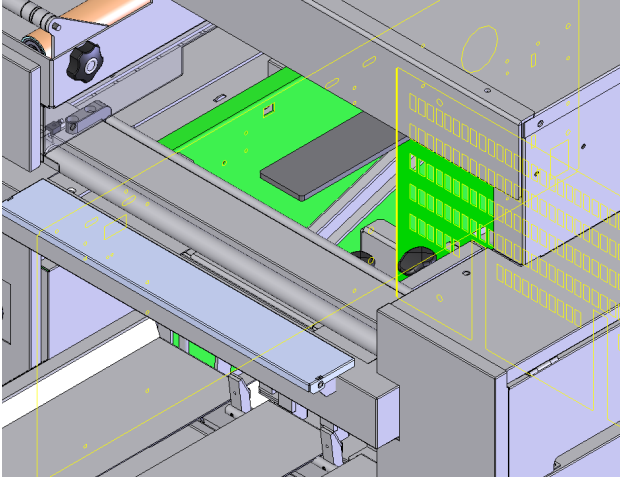

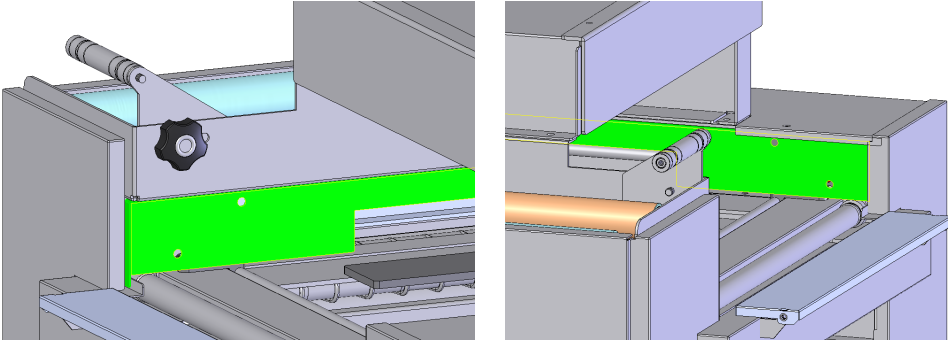

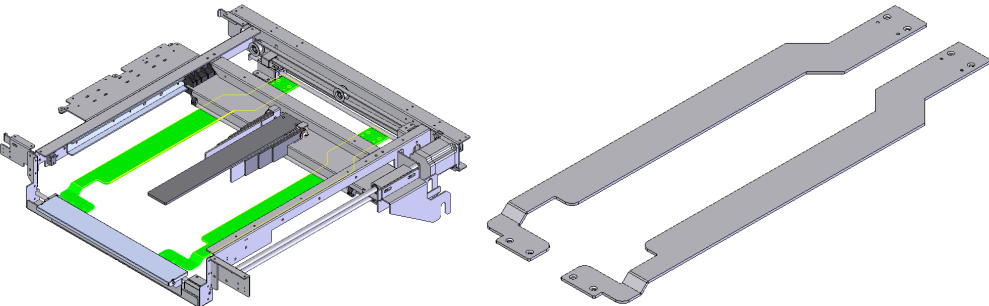

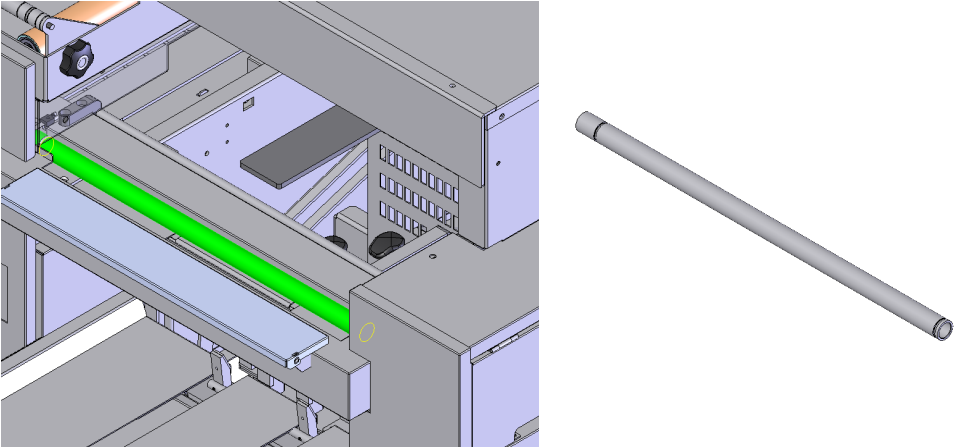

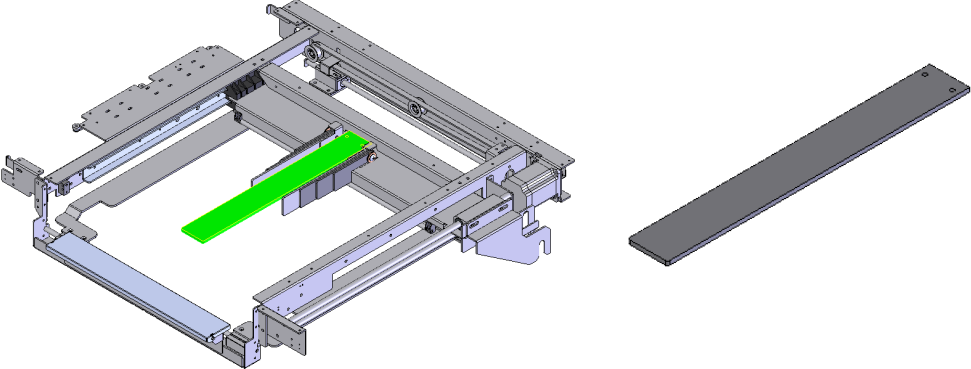

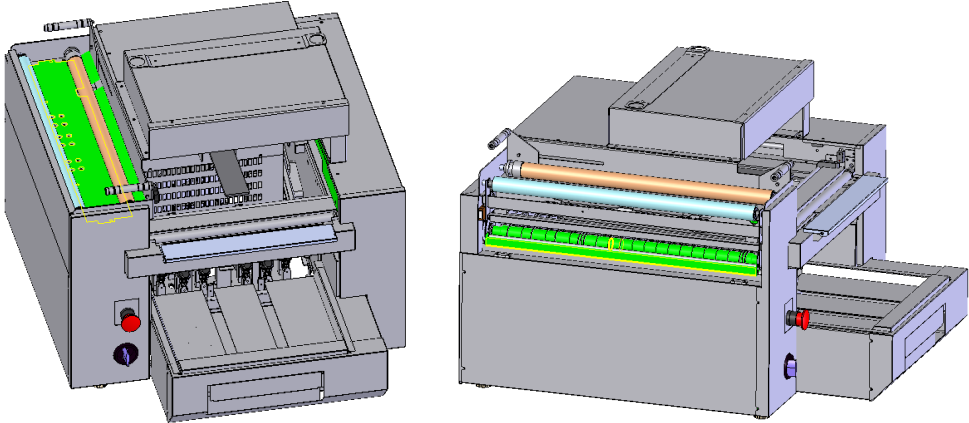

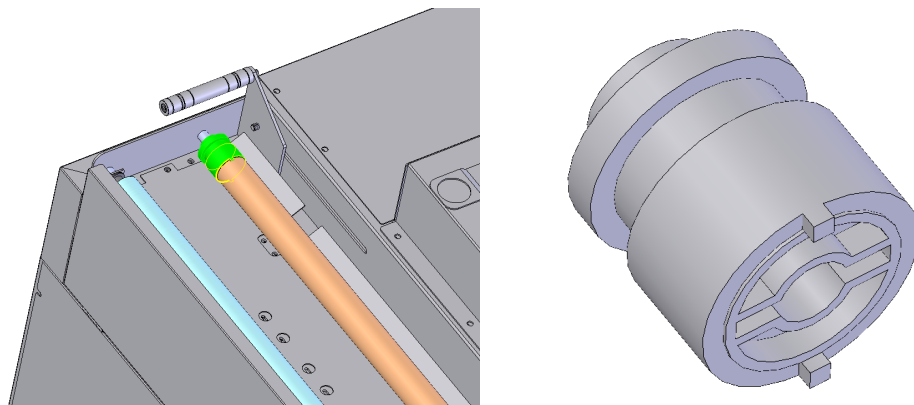
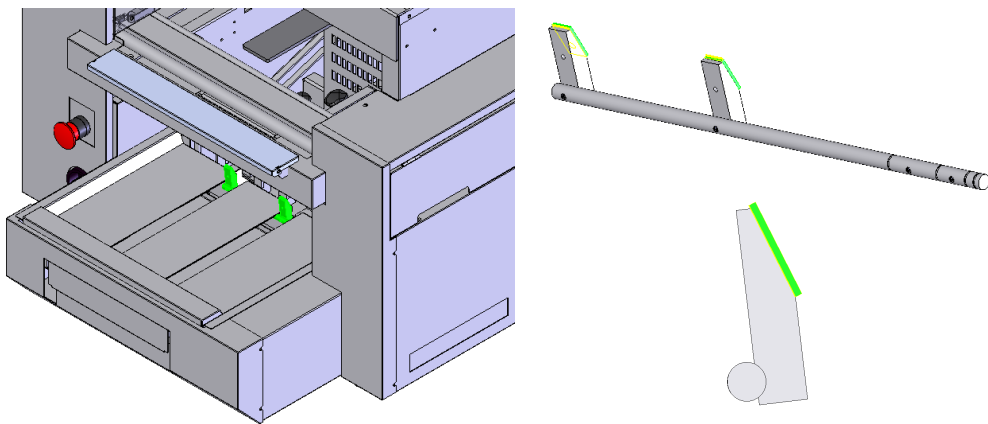
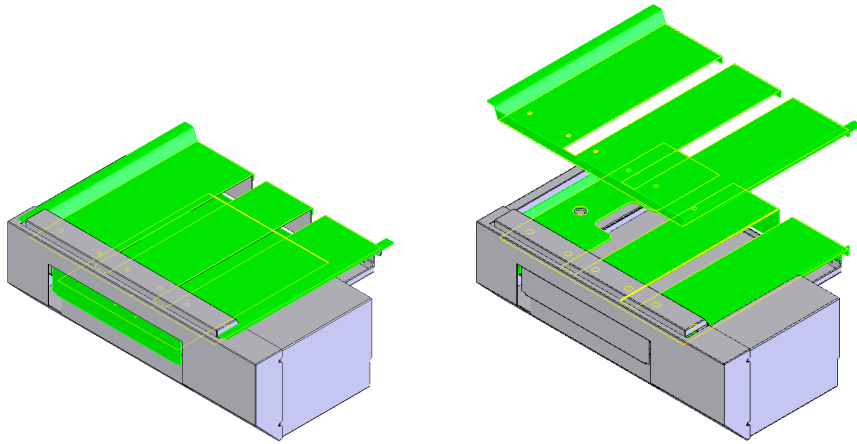
	Series: <b>WM-NANO</b>
	Manual Title: PERIODICAL MAINTENANCE
	Version: 2.2
	Updated: 9.September.2016
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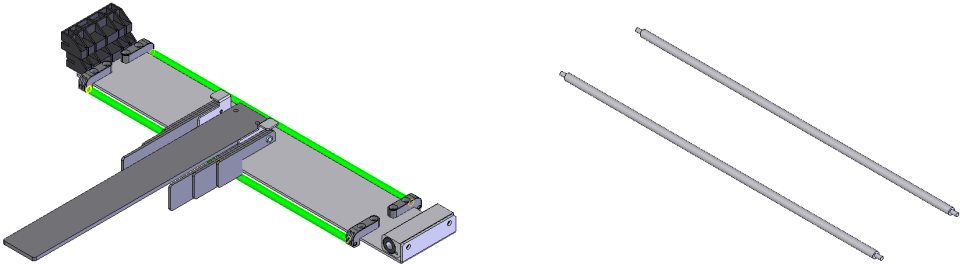

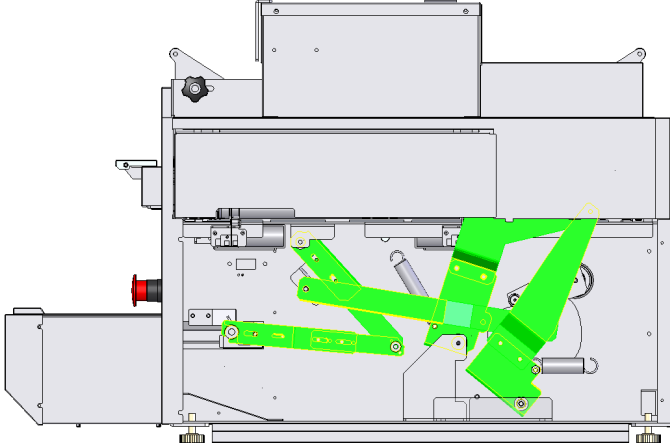



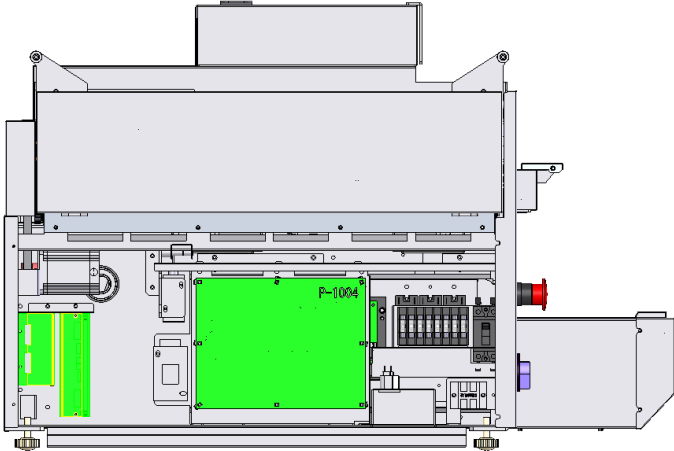


<p>2.0</p>		<p>The periodical maintenance consists of the following:</p> <ul style="list-style-type: none"> <li>• Check firmware details</li> <li>• Clean lifter unit and check all lift heads</li> <li>• Clean lifter area</li> <li>• Clean sensor holes in outfeed unit</li> <li>• Clean left and right folders</li> <li>• Clean heater and check</li> <li>• Clean tray pusher and check</li> <li>• Clean film area</li> <li>• Clean weighing unit and check</li> <li>• Clean tray infeeders and check</li> <li>• Check film roll brake and check</li> <li>• Check rear folder</li> <li>• Check all bolts in cam area</li> <li>• Check all connectors</li> <li>• Check tray heater</li> <li>• Check fan heater area</li> <li>• Check rubber on tray infeeders</li> <li>• Check belts' tension</li> <li>• Check clamps' strength</li> <li>• Check level</li> <li>• Grease all shafts and moving parts</li> <li>• Clean cassette printer and check</li> <li>• Clean thermal head and check</li> <li>• Perform 'Unit Test'</li> <li>• Fine-tune wrapping settings</li> <li>• Check weight value and calibrate</li> <li>• Check wrap count and reset</li> </ul>	
<p>2.1</p>	<p><b>Check firmware details</b></p> <ol style="list-style-type: none"> <li>a) Go to [MODE] &gt; [4][9][5][3][4][PLU] &gt; [ADJUST] &gt; [FIRMWARE DETAILS]</li> <li>b) Check all the firmware details for any upgrade possibilities</li> <li>c) If it is necessary to upgrade, please backup all data before upgrading firmware</li> </ol>		
<p>2.2</p>	<p><b>Clean lifter unit and check all lift heads</b></p> <ol style="list-style-type: none"> <li>a) Remove the lifter unit from the machine and clean it with appropriate HACCP approved detergents and warm water</li> <li>b) Clean all 27 head surfaces and the rotation movement</li> <li>c) Dry the complete lifter unit and replace any damaged head</li> <li>d) Apply food-grade grease to the rotation movement of each head</li> </ol>		
			

<p>2.3</p>	<p>Clean lifter area</p> <p>a) Clean all the lifter area</p> 	
<p>2.4</p>	<p>Clean sensor holes in outfeed unit</p> <p>a) Clean the sensor holes on the left-hand side of the outfeed unit</p> <p>b) Clean the sensor holes on the right-hand side of the outfeed unit</p> 	
<p>2.5</p>	<p>Clean left and right folders</p> <p>a) Clean the left folder</p> <p>b) Clean the right folder</p> 	

<p>2.6</p>	<p><b>Clean heater and check</b></p> <p>a) Clean the heater with a damp piece of cloth from left to right and back while rolling the heater roller gently</p> 	
<p>2.7</p>	<p><b>Clean tray pusher and check</b></p> <p>a) Clean the (blue) tray pusher</p> <p>b) Check for any possible scratches</p> 	
<p>2.8</p>	<p><b>Clean film area</b></p> <p>a) Remove the film roll and store in a cool and dry place</p> <p>b) Clean the area where the film roll is standing</p> <p>c) Clean the area where the film roll is loaded and fed into the machine</p> 	

<p>2.9</p>	<p>Clean weighing unit and check</p> <ul style="list-style-type: none"> <li>a) Remove the upper cover and wash</li> <li>b) Clean the weighing platter with a damp cloth</li> </ul>	
<p>2.10</p>	<p>Clean tray infeeders and check</p> <ul style="list-style-type: none"> <li>a) Clean the (green) rubber part of both tray infeeders</li> <li>b) Replace if damaged</li> </ul>	
<p>2.11</p>	<p>Clean film roll brake and check</p> <ul style="list-style-type: none"> <li>a) Clean the brake from any film residue</li> <li>b) Check the braking strength and adjust if necessary</li> </ul>	

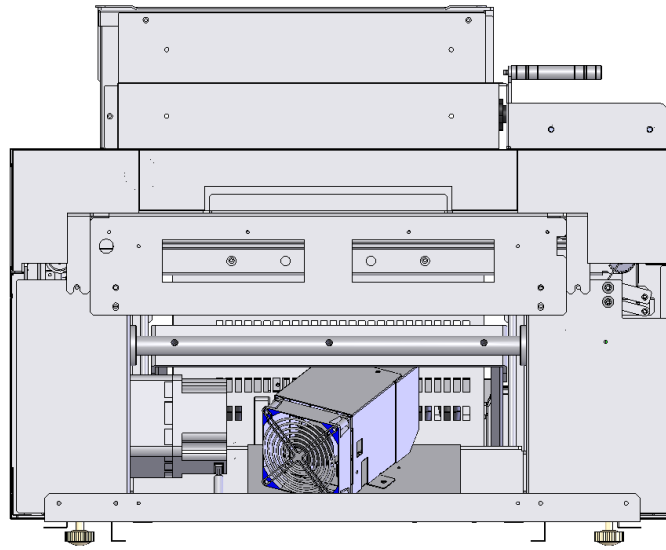


<p>2.12</p>	<p><b>Clean rear folder</b></p> <ul style="list-style-type: none"> <li>a) Clean both shafts of the rear folder</li> <li>b) Check movement of the shafts. Shafts must freely rotate, slightly move left and right. Shafts must not move forward and backwards.</li> </ul> 	
<p>2.13</p>	<p><b>Check all bolts in cam area</b></p> <ul style="list-style-type: none"> <li>a) Check all bolts in the cam area and tighten if food loose due to vibration when machine is working</li> </ul> 	  
<p>2.14</p>	<p><b>Check all connectors</b></p> <ul style="list-style-type: none"> <li>a) Check all connectors in the electrical area and all other areas too for any loose connection</li> </ul> 	 

2.15

Check fan heater area

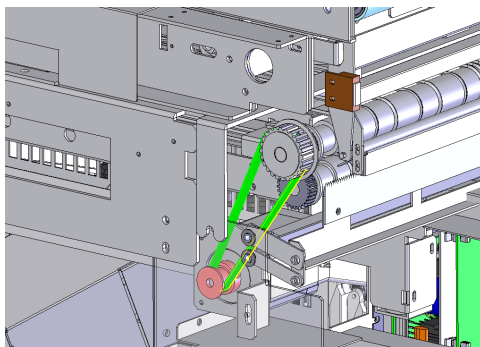
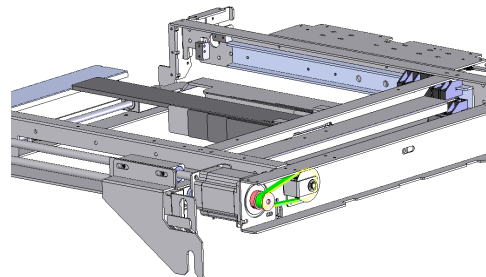
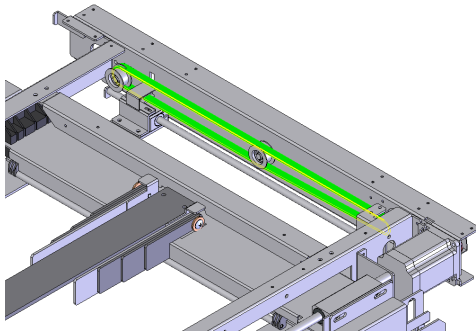
- a) Clean the fan heater area
- b) Check and clean the fan heater

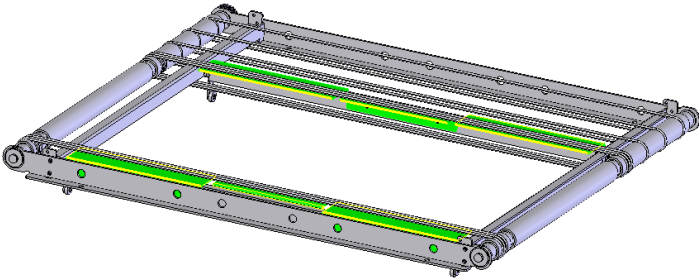

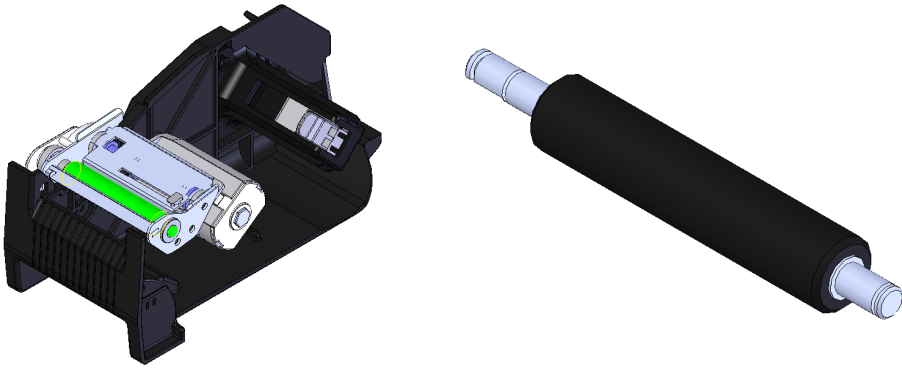
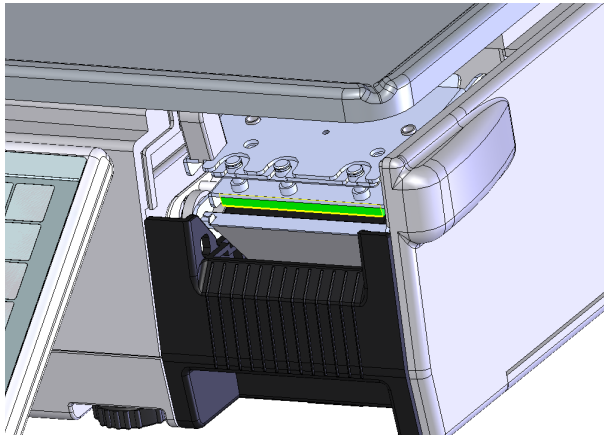


2.17

Check belt's tension


- a) Check the tension of the left/right folder moving drive belt
- b) Check the tension of the left/right folder motor drive belt
- c) Check the tension of the film feeder drive belt



<p>2.18</p>	<p><b>Check clamps' strength</b></p> <ul style="list-style-type: none"> <li>a) Check the rear left, right and centre clamps with a piece of paper</li> <li>b) Check the front left, right and centre clamps with a piece of paper</li> </ul> 	
<p>2.19</p>	<p><b>Grease all shafts and moving parts</b></p> <ul style="list-style-type: none"> <li>a) See Appendix A1 for a list of all lubrication points</li> <li>b) Yellow grease [Y] - p/n 77932, White grease [W] - p/n 77933</li> </ul>	
<p>2.20</p>	<p><b>Clean cassette printer and check</b></p> <ul style="list-style-type: none"> <li>a) Clean the roller (DO NOT use sharp objects as this may easily damage the rubber. Use only soft objects such as cleaning pen and volatile spirit)</li> <li>b) Clean the cassette (general cleaning)</li> <li>c) Remove any labels attached to the cassette</li> </ul> 	
<p>2.21</p>	<p><b>Clean thermal head and check</b></p> <ul style="list-style-type: none"> <li>a) Clean the thermal head (DO NOT use sharp objects such as knife as this may easily damage the thermal head. Instead use only soft objects such as cleaning pen and volatile spirit)</li> <li>b) Print a test print (checker print) and check for any scratches</li> <li>c) If thermal head is scratched, replace with a new thermal head</li> </ul> 	



2.22	<p>Perform 'UNIT TEST'</p> <ul style="list-style-type: none"> <li>a) Go to [MODE] &gt; [ADJUST] &gt; [4][9][5][3][4][4][PLU] &gt; [UNIT TEST]</li> <li>b) Perform all the tests available in the Unit Test menu</li> <li>c) 1. All Sensor Check</li> <li>d) 2. Lifter</li> <li>e) 3. Film Feeder</li> <li>f) 4. Left/Right Folders</li> <li>g) 5. Cutter</li> <li>h) 6. Film Arm</li> <li>i) 7. Front Clamps</li> <li>j) 8. Rear Clamps</li> <li>k) 9. All Clamps</li> <li>l) 10. Wrap (No Arm)</li> <li>m) 11. Wrap</li> <li>n) 12. Film Feed</li> </ul>	
2.23	<p>Fine-tune wrapping settings</p> <ul style="list-style-type: none"> <li>a) Go to [MODE] &gt; [PROGRAM] &gt; [TRAY] &gt; [ADJUST 1]</li> <li>b) Fine-tune the tray settings if necessary due to machine/component ageing</li> </ul>	
2.24	<p>Check level</p> <ul style="list-style-type: none"> <li>a) Check the level of the machine and set if necessary.</li> </ul>	
2.25	<p>Check weight value and calibrate</p> <ul style="list-style-type: none"> <li>a) Go to [MODE] &gt; [ADJUST] &gt; [4][9][5][3][4][4][PLU] &gt; [CALIBRATION]</li> <li>b) Check the weight</li> <li>c) Perform the ZERO and SPAN adjustments to calibrate the scale</li> </ul>	
2.26	<p>Check wrap count and reset</p> <ul style="list-style-type: none"> <li>a) Go to [MODE] &gt; [ADJUST] &gt; [WRAPPER] &gt; [INITIAL] &gt; WRAP COUNT</li> <li>b) Take note of the COUNT value</li> <li>c) Reset the count value</li> </ul>	

	Series:	<b>WM-NANO</b>
	Manual Title:	<b>CHECKLIST: PERIODICAL MAINTENANCE</b>
	Version:	<b>2.2</b>
	Updated:	<b>9.September.2016</b>
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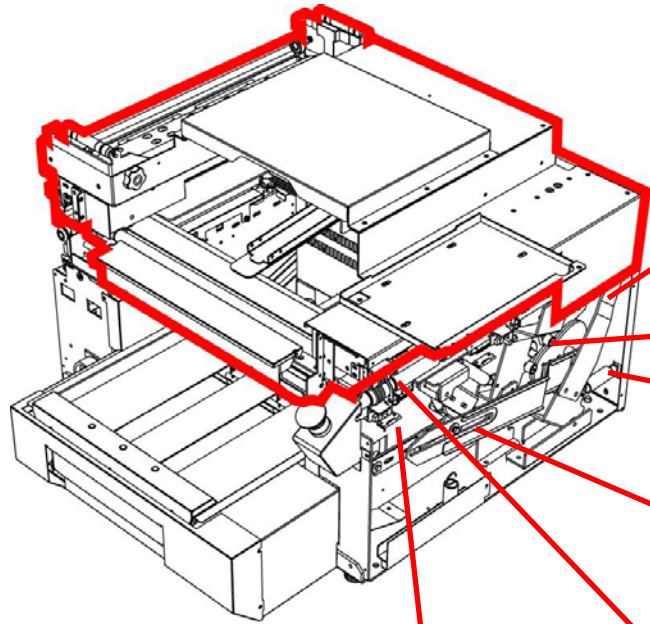
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01	Check firmware details		
02	Clean lifter unit and check all liftheads		
03	Clean lifter area		
04	Clean sensor holes in outfeed unit		
05	Clean left and right folders		
06	Clean heater and check		
07	Clean tray pusher and check		
08	Clean film area		
09	Clean weighing unit and check		
10	Clean tray infeeders and check		
11	Clean film roll brake and check		
12	Clean rear folder		
13	Check all bolts in cam area		
14	Check all connectors		
15	Check fan heater area		
16	Check tray seal heater		
17	Check belts' tension		
18	Check clamps' strength		
19	Grease all shafts and moving parts		
20	Clean cassette printer and check		
21	Clean thermal head and check		
22	Perform 'Unit Test'		
23	Fine-tune wrapping settings		
24	Check level		
25	Check weight value and calibrate		
26	Check wrap count and reset		

Customer details:	
Name:	
Address:	
City:	
Postcode:	
Country:	

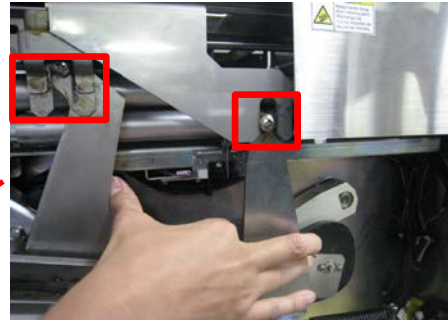
Serviced by:
Date:

# APPENDIX A1 -- LUBRICATION POINTS

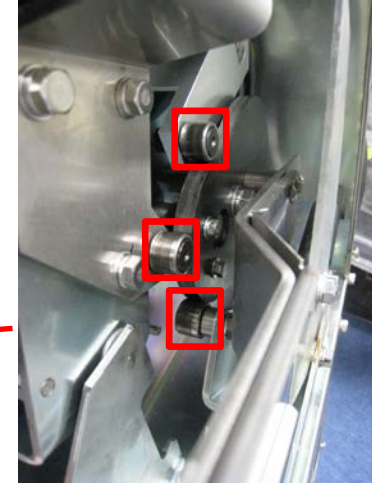
<RIGHT SIDE>



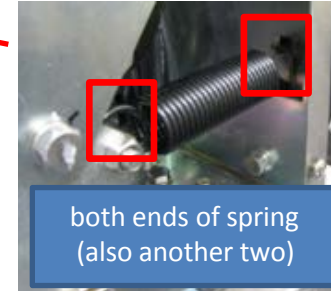
Slip Joints (2) [Y]



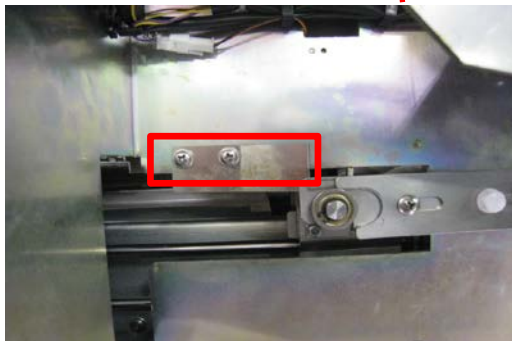
Cam Followers (3) [Y]



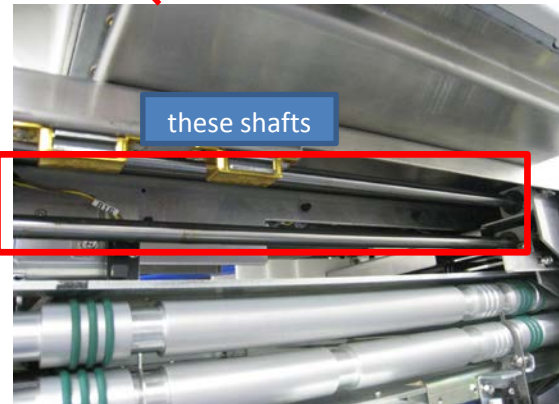
Return Springs (3) [Y]



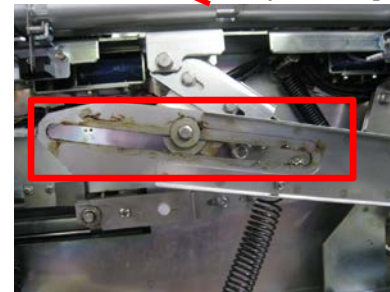
Spring Plate [Y]



Linear Shafts (2) [Y]

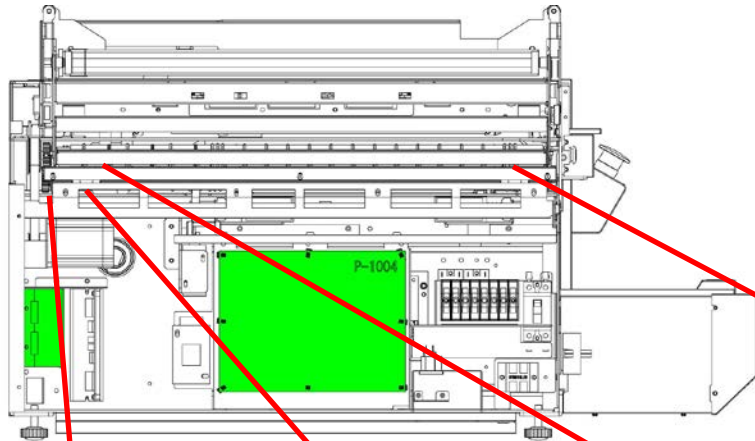


Slip Joint [Y]

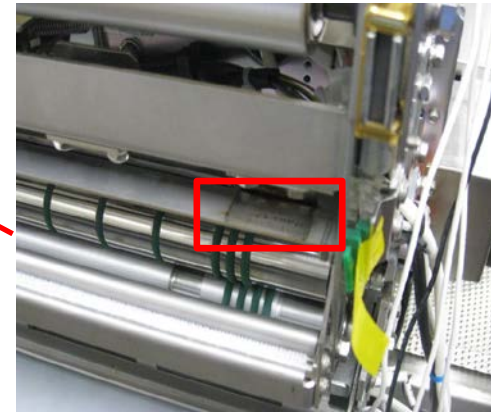


[Y] = Yellow Grease

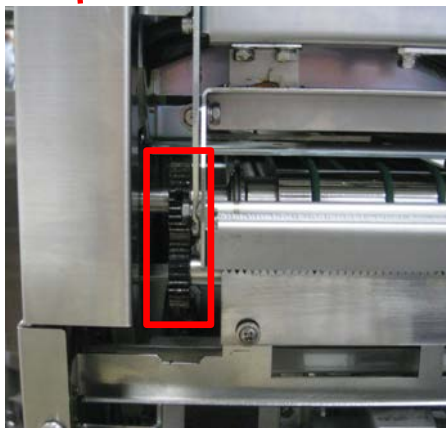
<LEFT SIDE>



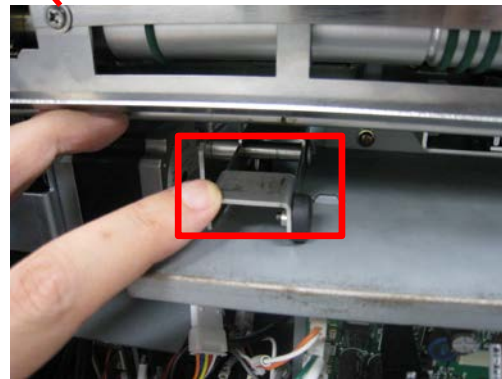
Spring Plate [W]



Drive Gear [Y]



Cutter Blade Pivot [Y]

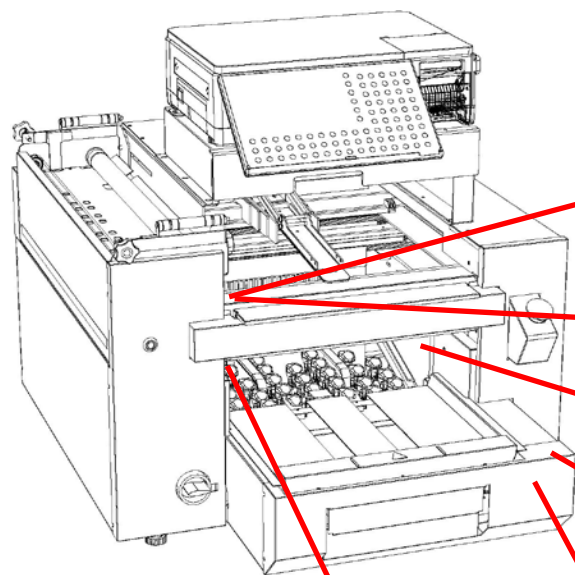


Spring Plate [W]

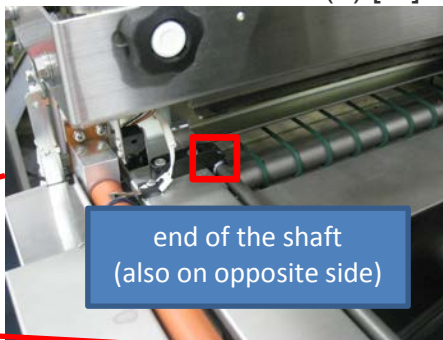


[Y] = Yellow Grease, [W] = White Grease

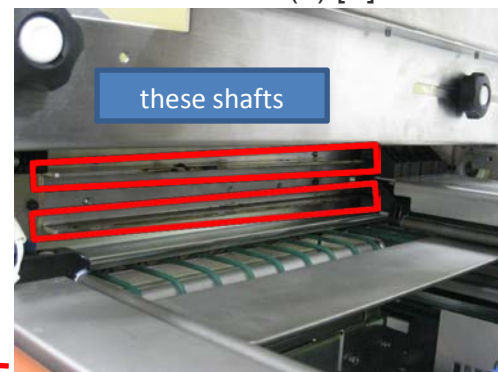
<FRONT and INSIDE>



Roller Shaft Ends (2) [W]



Flat Shafts (2) [Y]



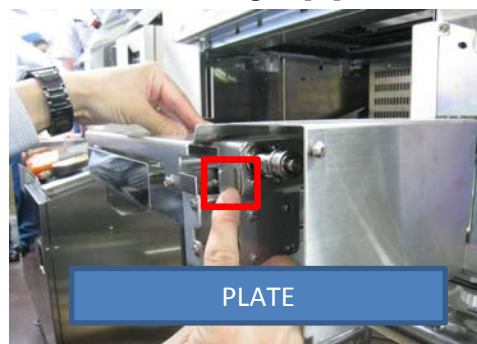
Lift Linear Shaft, Right [Y]



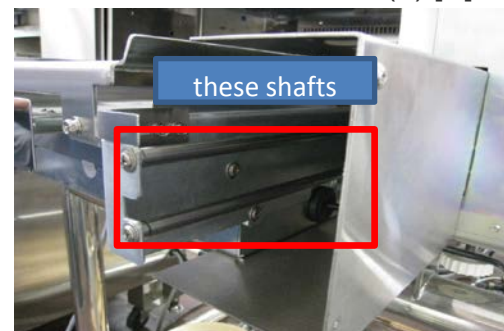
Lift Linear Shaft, Left [Y]



Plunger [Y]



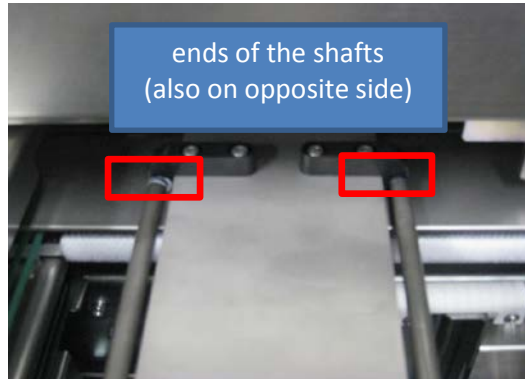
Infeed Linear Shafts (2) [Y]



[Y] = Yellow Grease, [W] = White Grease

<OTHERS>

Rear Wrap Plate Roller Shaft Ends (4) [W]



Side Wrap Plates Linear Shafts (2) [Y]



Lift Head Pivot Springs (27) [W]



Grease Color	Part Number	Description	Industry Ref. No.
[Y] Yellow	77932	General Purpose Lithium Grease (323916) [Shell Alvania Grease "No.2]	Sta-Lube SL3310
[W] White	77933	White Food-Grade Grease (380059) [Sumico White Alcom Grease "No.2]	CRC SL35600

[Y] = Yellow Grease, [W] = White Grease