

MODIFICATION INSTRUCTIONS

for the

***KODAK X-Omatic* MULTILOADER 300**

Service Code 3058

MODIFICATION No. 10

Type 1 required

PURPOSE:

To install the latest OPERATING SOFTWARE and to improve film separation from the CASSETTE LID SCREEN

IMPORTANT : Use qualified service personnel to install this modification !

SERIAL NUMBERS : 1001 to 1309

NOTE

**Approximately 100 units out of this range will be modified in the factory.
As soon as the SN's are available this information will be send out to
the field.**

INSTALLATION TIME : Approximately 3 hours

SPECIAL TOOLS : IC-EXTRACTOR TL4430

PARTS REQUIREMENTS : MOD KIT #10 PN 9225061

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PARTS LIST

| PART NO. | DESCRIPTION | QUANTITY |
|-----------------|--------------------|-----------------|
|-----------------|--------------------|-----------------|

9225061..... MOD KIT #10

The Kit contains:

| | | |
|--------------|---|---|
| 9229210..... | OPERATING SOFTWARE DISKETTE V3.0 ML300 | 1 |
| 9228440..... | BOOT EPROM for MAIN PROCESSOR PCB A1 | 1 |
| 9228400..... | BOOT EPROM for SLAVE PROCESSOR PCB A3/1..... | 1 |
| 9228420..... | BOOT EPROM for SLAVE PROCESSOR PCB A3/2..... | 1 |
| 9222442..... | BLOWPIPE LEFT | 1 |
| 9222592..... | BLOWPIPE RIGHT | 1 |
| 4283091..... | SETSCREW M3x3..... | 2 |
| 9220020..... | INSULATING TUBE approximately 30mm long | 1 |
| 9227220 * | HOSE (PU-3) black 55mm..... | 2 |
| * | HOSE (PU-3) black 285mm | 1 |
| 9186886..... | AIR FILTER with FITTINGS | 1 |
| 9227200..... | BLEEDER VALVE (4bar) | 1 |
| TL4583 | BLOWPIPE POSITIONER CASSETTE | 1 |
| TL4582 | BLOWPIPE POSITIONER MAGAZINE | 1 |
| TL4462 | ML300 DIAGNOSTIC SOFTWARE DISKETTE 1 and 2 Version 3.0..... | 1 |
| 955698..... | PROCESSOR DIAGNOSTIC DISKETTE Version 2.30 | 1 |
| | includes PROCESSOR OPERATING SOFTWARE | |
| 963726..... | 500 BOARD BOOT EPROM V2.30 | 1 |

* When you reorder the black PU-HOSE you will get under 9227220 a PU-HOSE 100 cm long.

INTRODUCTION

The installation consists out of 5 parts:

PART 1: PREPARATION OF THE LAPTOP

PART 2: INSTALLATION OF THE ML300 OPERATING SOFTWARE

PART 3: INSTALLATION OF THE 270RA OPERATING SOFTWARE

PART 4: REPLACEMENT OF THE CASSETTE BLOWPIPES.

PART 5: INCREASE OF THE PRESSURE IN THE PNEUMATIC SYSTEM.

PART 1

In PART 1 the new SERVICE SOFTWARE Version 3.0 for the ML300 and the new DIAGNOSTICS SOFTWARE Version 2.3 for the INTEGRATED 270RA PROCESSOR is loaded onto the HARDDISK of the LAPTOP.

PART 2

In PART 2 the new ML300 OPERATING SOFTWARE is downloaded to the ML300. The BOOT EPROMS are replaced with new ones and the contents of the FLASH EPROMS is overwritten with the new software.

The main features of the new ML300 OPERATING SOFTWARE are:

1. Software download via the Laptop is possible. This means future software updates are possible via the Laptop as long as the BOOT EPROM's do not change.
2. 4 out of the following 12 languages can be loaded into the XML300

Danish

Dutch

English

Finnish

French

German

Italian

Japanese
Norwegian
Portuguese
Spanish
Swedish

If no language is selected the 4 languages printed bold are used as defaults and loaded into the XML300.

3. Communication Errors are eliminated.
4. Parameter LOWER POCKET can be used without limitation. This means it is no longer necessary to set a different value if the XML300 is used with MIN-R2 CASSETTES and EXTENDED CYCLE.

NOTE

The STANDARD VALUE in the SERVICE SOFTWARE for this PARAMETER is 40h. However experiences showed that it is more safe to use 2ah instead.

5. It is no longer necessary to power down after "STORE PARAMETER".
6. The software routine for "BLOWTIME" is changed to improve the film separation from the LID SCREEN.
7. The COMPRESSOR is turned on after the INPUT FLAP is turned on. This ensures that more air is available at BLOWTIME.

PART 3

Version 2.30 software for the 270RA PROCESSOR solves the following problems, which occurred with 2.23 software.

The main program software, Version 2.23, only operated correctly with diagnostics software, Version 1.00.

The REPLENISHMENT PUMPS were disabled after 5 minutes of keyboard inactivity when in the REPLENISHMENT CALIBRATION screen, unless the user exited the REPLENISHMENT CALIBRATION screen by pressing DONE/RETURN. An E130 error, "REPLENISH PUMPS DISABLED", was displayed.

With the processor in INTERVAL STANDBY MODE, an E041 error, "LOSS OF TRANSPORT SPEED CONTROL", or an E004 error, "INOPERATIVE TRANSPORT", was sometimes displayed.

If diagnostics were entered on the LAPTOP while the processor was running with TANK FILL enabled, the RECIRCULATION PUMP actuated.

Inadvertent error codes E034, E035 and E036 were displayed with replacement 500 CIRCUIT BOARDS.

Additional Features:

The LAPTOP diagnostics will now be fully supported.

PART 4

The CASSETTE BLOWPIPES are changed to improve the film separation from the CASSETTE LID SCREEN.

PART 5

The air pressure in the PNEUMATIC SYSTEM becomes increased to improve the film separation from the CASSETTE LID SCREEN.

INSTALLATION

NOTE 1

To successfully install this modification the XML300 must be equipped with OPERATING SOFTWARE 1.25 already. A software upgrade from OPERATING SOFTWARE 1.24 to Version 3.0 is only possible if you install the MAIN PROCESSOR FLASH EPROM's included with MODIFICATION 8 first.

NOTE 2

If the Software is not successfully downloaded try it again. If the problem persists (maybe due to a hardware problem of the Micro Processor Boards) install modification 8. After this locate the problem by replacing the Micro Processor Boards.

NOTE 3

The replacement of the 2 CASSETTE BLOWPIPES supersedes the blowpipe replacement of MODIFICATION 4.

PART 1: PREPARATION OF THE LAPTOP

1. Switch on the LAPTOP.
2. Insert the **SERVICE SOFTWARE DISKETTE TL 4462 Version 3.0** into DRIVE A:
3. Select DRIVE A:
Key in **A:** and press ENTER.
4. After DRIVE A: is selected key in **INSTALL** and press ENTER.
5. The SERVICE SOFTWARE is loaded onto the HARDDISK and replaces the previous version.
6. After the SERVICE SOFTWARE is successfully loaded take out the DISKETTE and insert the **OPERATING SOFTWARE DISKETTE V3.0 ML300** into DRIVE A:
7. Key in **INSTALL** and press ENTER.
8. The OPERATING SOFTWARE is loaded onto the HARDDISK.
9. After the OPERATING SOFTWARE is successfully loaded take out the DISKETTE and insert the **PROCESSOR DIAGNOSTIC DISKETTE Version 2.3** into DRIVE A:.
10. Key in **270INST** and press ENTER.
11. After the 270RA SOFTWARE is loaded successfully select DRIVE C: and take out the DISKETTE.
11. The preparation of the LAPTOP is finished.

PART 2: INSTALLATION OF THE ML300 OPERATING SOFTWARE V3.0

1. Switch off the XML300 and take off the TOP COVER, both SIDE PANELS, the REAR PANEL and the FRONT PANEL of the INTEGRATED PROCESSOR.
2. Connect your Laptop to the XML300 and switch on the XML300.
3. Start the SERVICE PROGRAM

| | |
|-------------------|-------|
| Key in | Press |
| C: | ENTER |
| cd \XML300 | ENTER |
| START | ENTER |

NOTE

A WARNING MESSAGE will be displayed on the LAP TOP at this time because the XML300 still contains the old software. Ignore this message key in C (for continue) and press ENTER.

The GLOBAL MENU of the CES Service Software is now displayed.

4. Due to the change of the BOOT EPROM's the PARAMETERS will not be saved automatically. Therefore they have to be recorded now.

| | |
|--------|---|
| Select | SERVICE MODE ML300 from the GLOBAL MENU |
| Select | CHANGE ML300 DATA from the MAIN MENU |
| Select | CHANGE PARAMETER from the CHANGE ML300 DATA MENU |

Record the following PARAMETERS in the space below and on the next page :

VACUUM OFF TIME

BLOW TIME

DISABLE OPENER

DISABLE INTERFACE

ADDITIONAL STEPS

TILT POSITION

LOWER POCKET ST

5. Press 2 times Backspace or Esc to go back to the MAIN MENU.
6. Select **QUIT ML300 SERVICE MODE** and press ENTER.
7. Select **QUIT THE PROGRAM** from the GLOBAL MENU and press ENTER.
8. Switch off the XML300
- 9.

NOTE

Take ESD SAFETY PRECAUTIONS for replacing the BOOT EPROM's in step 9, 10, 11, 12 and 13.

Replace the BOOT EPROM of the MAIN PROCESSOR PCB A1 with the BOOT EPROM 9228440.
See figure 1.

10. Check that the JUMPERS E1 to E6 are set as shown in figure 1.

11. Check the SWITCH SETTING on the MAIN PROCESSOR PCB A1

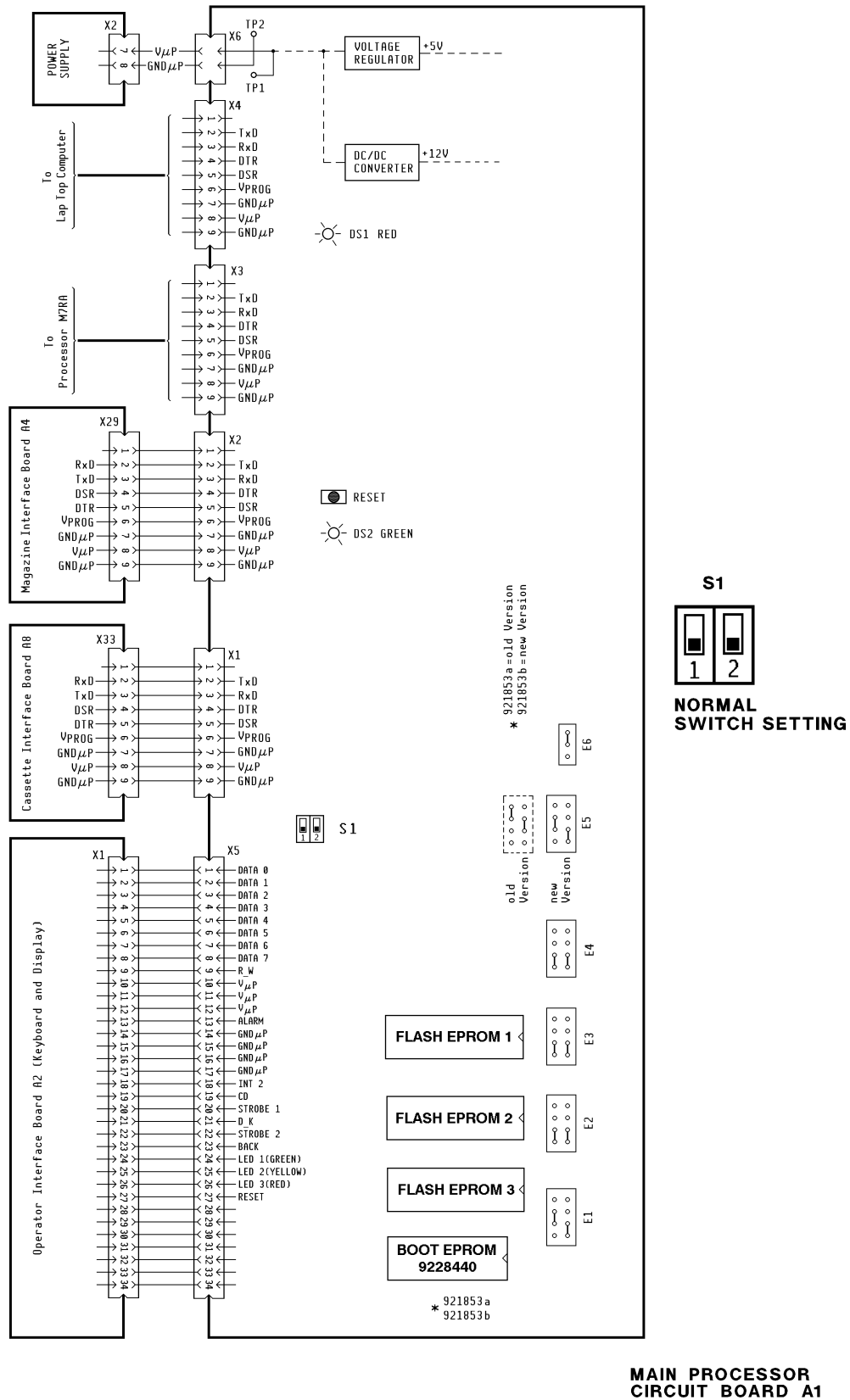


figure 1

S1-1

For the position of S1 see figure 1

Normally S1-1 should be set to **OFF** (down). In this case some errors can only be reset with the LAPTOP (see the DIAGNOSTICS MANUAL). If S1-1 is set to **ON** (up) the OPERATOR can reset the XML300 after every fault just by pressing the left-hand BUTTON. The OPERATOR can now try to start another cycle.

NOTE

This RESET cannot solve a real hardware problem or a film jam when it tries to recover from the problem. In such a case the problem will occur again in the next cycle. This means an exposed FILM would become lost. For this reason set S1-1 only to ON if the CUSTOMER is aware of this risk and if he is willing to accept it.

After selecting "FUNCTION" on the OPERATOR CONTROL PANEL the following selection is displayed:

TYPE2 USAGE LANG CLEAR

When S1-1 is ON (up) an altered selection is displayed:

TYPE2 SYSTEM USAGE LANG CLEAR

SYSTEM contains the following 4 options:

TIME This gives date and time.

HISTO This gives information on the last cycle.

NOTE

**THIS INFORMATION CAN ONLY BE ANALYSED BY THE SPECIALISTS
IN THE FACTORY.**

CONTIN Continuous Loop. The unload/load cycle is repeated continuously.

INFO The SOFTWARE VERSION of the ML300 and of the 270RA
PROCESSOR is displayed.

S1-2

NOTE

**Do not leave S1-2 in the up position. The CUSTOMER could loose exposed films if for any reasons the 270 RA Processor is switched off.
Use S1-2 in the up position only for troubleshooting.**

NORMALLY S1-2 SHOULD BE SET TO OFF (DOWN). IF IT IS SET TO ON (UP) TWO DIFFERENT OPTIONS ARE ENABLED:

The XML300 is running while the 270RA Processor is turned off. After POWER UP an error message is displayed and can be overridden by pressing CLEAR. From this moment on the turned off PROCESSOR will be ignored.

ERROR INFORMATION can be displayed on the OPERATOR CONTROL PANEL. In case of a problem press the second key from the left and the information will be displayed. This ERROR INFORMATION can be downloaded automatically to the HISTORY DISKETTE. This DISKETTE can then be sent to the factory for analysing the problem.

12. Replace the BOOT EPROM of the CASSETTE SLAVE PROCESSOR PCB A3/1 with the BOOT EPROM 9228400.

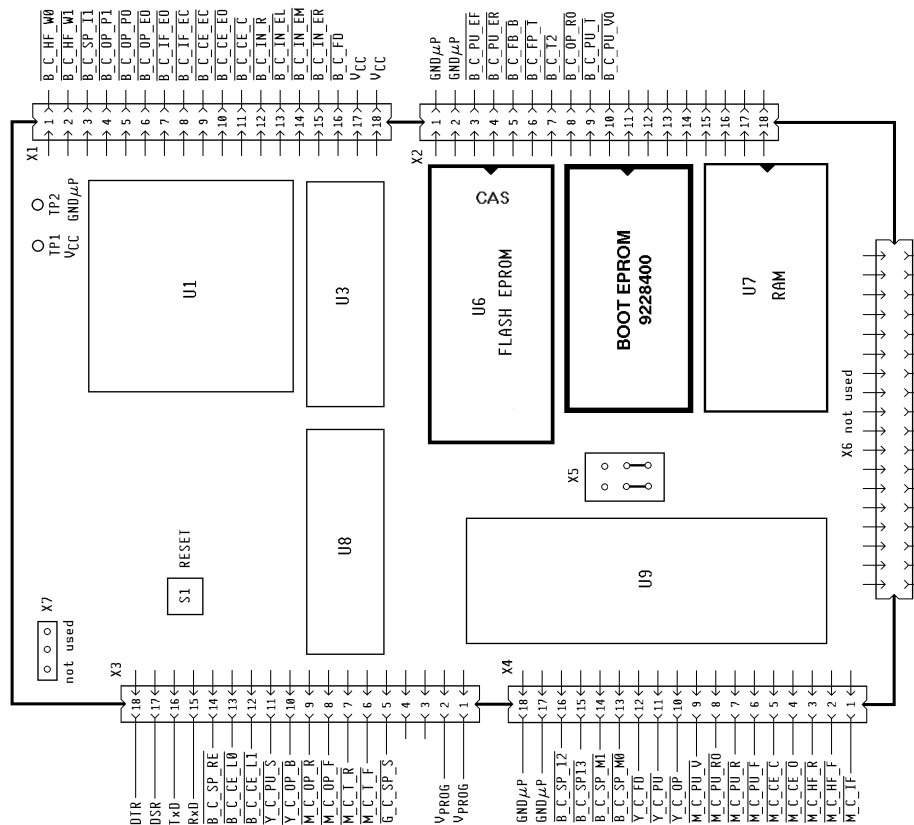


figure 2

13. Replace the BOOT EPROM of the MAGAZINE SLAVE PROCESSOR PCB A3/2 with the BOOT EPROM 9228420.

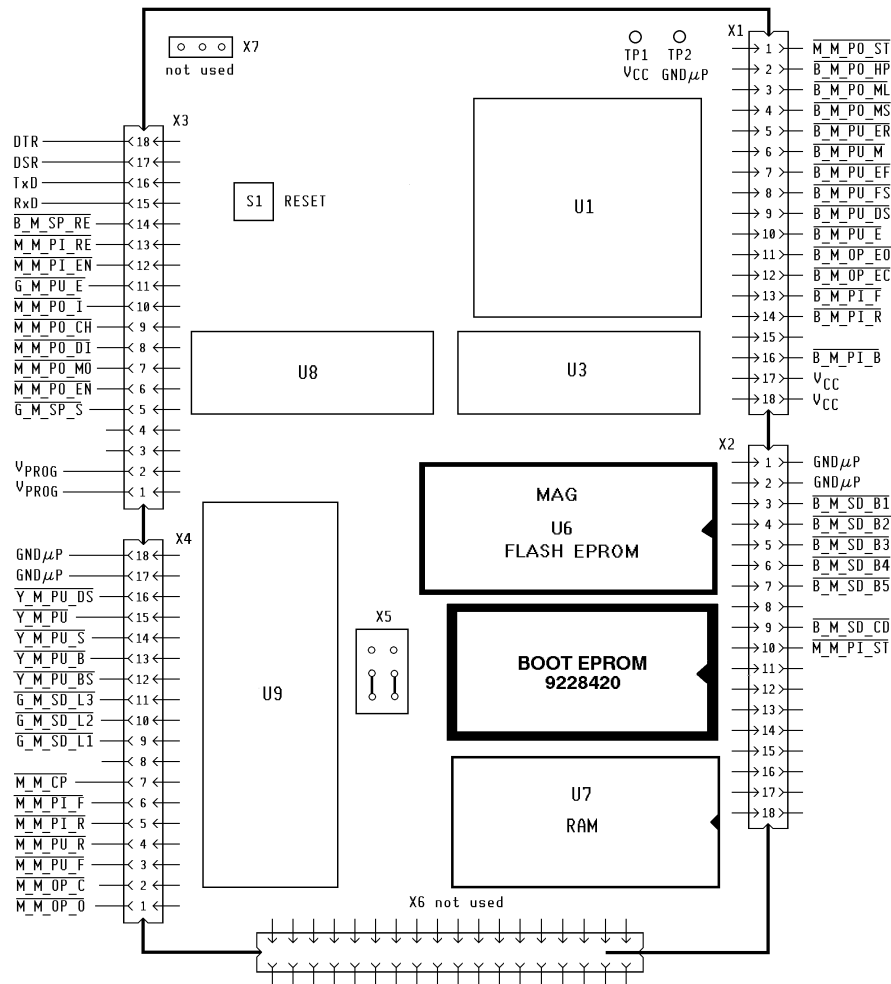


figure 3

14. Switch on the XML300

NOTE

The ERROR MESSAGE "EX41: OPERATING SOFTWARE not available" will be displayed. If this error message is not displayed the MAIN PROCESSOR BOOT EPROM is not correctly installed or defective.

15. Check that the red LED's on PCB A4 and PCB A8 are blinking. If they are not blinking the corresponding BOOT EPROM is not installed correctly or defective.

16. Start the SERVICE PROGRAM

| | |
|-------------------|-------|
| Key in | Press |
| C: | ENTER |
| cd \XML300 | ENTER |
| START | ENTER |

17. The following SCREEN will be displayed:

ENTER SERVICE MODE

messages

**The Operating Software in the connected XML300
is version 0.00**

18. Press ENTER

19. The screen SOFTWARE UPDATE is displayed.

20. Select DESIRED LANGUAGES

Move the ROLL-BAR with the ARROW KEYS up or down to the desired language and press ENTER.. The selected language is now marked with an asterisk. Up to 4 languages can be selected.

21. Move the ROLL-BAR with the ARROW KEYS down to SOFTWARE UPDATE and press ENTER.

NOTE

**If no languages are selected the 4 default languages ENGLISH FRENCH
GERMAN and SPANISH will be downloaded.**

22. Answer the question "Do you want to continue" with YES. Type YES in CAPITAL LETTERS and press ENTER. The complete update will take approximately 15 minutes.

23. The software for the ML300 SYSTEM UNIT becomes now updated. During this time the yellow and red LED at the OPERATOR DISPLAY are blinking. After the SYSTEM UNIT is updated the green LED on the MAIN PROCESSOR BOARD PCB A1 is turned on constantly.

24. The CASSETTE UNIT becomes now updated. From now on the yellow LED on the OPERATOR DISPLAY is turned on constantly and the error code
00 00 00 00 00
is displayed.

25. After updating the CASSETTE UNIT the red LED on PCB A8 is turned on constantly.

26. The MAGAZINE UNIT becomes now updated.

27. After the MAGAZINE UNIT is updated the red LED on PCB A4 is turned on constantly.

28. The following message is displayed on the LAPTOP:

Update of the OPERATING SOFTWARE in SYSTEM-, CASSETTE- and MAGAZINE UNIT of the XML300 is successfully completed press any key to continue.

29. Switch off the XML300.

30. Switch on the XML300.

31. Press any key at the LAPTOP. Leave the SERVICE PROGRAM and start it again.

32. Select **SERVICE MODE ML300** from the GLOBAL MENU.

33. Select **CHANGE ML300 DATA** from the MAIN MENU.

34. Select **CLEAR MEMORIES** from the CHANGE ML300 DATA MENU.

35. In the MENU CLEAR MEMORIES clear:

**CLEAR ALL MEMORIES
GRAND TOTAL COUNTERS
TOTAL CYCLE COUNTER**

36. Press BACKSPACE or Esc to go back to the CHANGE ML300 DATA MENU.

37. Select **CHANGE UNIT DATA** and press ENTER.

Key in UNIT and CUSTOMER DATA.

38. Select **STORE INSTALLATION DATA** and press ENTER.
39. Press BACKSPACE or Esc to go back to the CHANGE ML300 DATA MENU.
40. Select **SET TIME AND DATE** and press ENTER.
41. Set time and date to the correct values. For time use standard time.
42. Select **STORE TIME AND DATE** and press ENTER.
43. Press BACKSPACE or Esc to go back to the CHANGE ML300 DATA MENU.
44. Select **CHANGE PARAMETER** and press ENTER.
45. Set the PARAMETERS to the values recorded in step 4 page 10.

NOTE

**Set Parameter LOWER POCKET to 2ah. If this value is too high the
MAGAZINE BLOWPIPES may interfere with the CASSETTE.**

46. Start the **SCAN RUN**.
47. Do the **CASSETTE LENGTH** adjustment.
48. Do the **NEARLY EMPTY** adjustment.
49. Select **STORE PARAMETERS** and press ENTER.
50. Press 2 times BACKSPACE or Esc to come back to the MAIN MENU.
51. Select **QUIT ML300 SERVICE MODE** and press ENTER.
52. The ML300 is now updated with the new OPERATING SOFTWARE. The next step is to update the integrated 270RA PROCESSOR.

PART 2: INSTALLATION OF THE 270RA OPERATING SOFTWARE.

1. Switch off the XML300.
2. Pull out the ELECTRONIC BOX of the PROCESSOR and replace the BOOT EPROM 963726 on PCB 500. Use the IC-EXTRACTOR TL4430

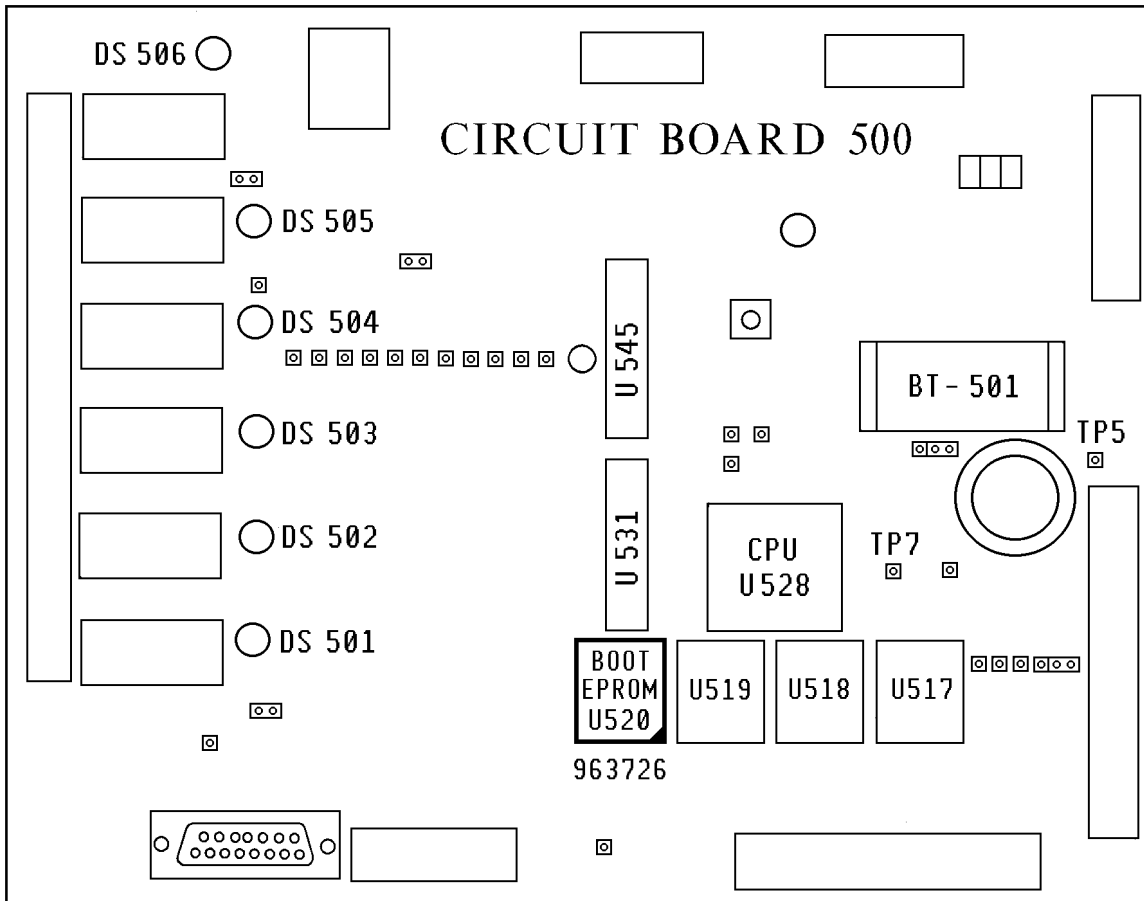


figure 4

NOTE

Take ESD SAFETY PRECAUTIONS for replacing the BOOT EPROM.

3. Switch on the XML300.

4.

NOTE

Installing 2.30 software will remove any non-default parameters. Sheet count, processor run time and transport run time will be cleared to zero after version 2.30 software is powered up the first time.

Record any non-default parameters.

5. Start the **SERVICE PROGRAM**.

| Key in | Press |
|-------------------|-------|
| C: | ENTER |
| cd \XML300 | ENTER |
| START | ENTER |

6. Select **DIAGNOSTICS PROCESSOR** from the GLOBAL MENU and press ENTER.

7. Select **SOFTWARE DOWNLOAD** from the MAIN MENU and press ENTER.

8. Press any key. This screen will be displayed:

RA PROCESSOR DOWNLOAD

Choose the language interface to be downloaded. Multilanguage represents all supported languages except Japanese.

Multilanguage
Japanese
Exit Software Download

↑↓ **Enter=Select** **Esc=Quit**

9. Select **Multilanguage** by using the up and down arrow keys and press ENTER. (Even in Japan. The languages are handled by the XML300 Operating Software.)

10. This screen will be displayed:

RA PROCESSOR SOFTWARE DOWNLOAD

Existing software version on the
processor : x.xx
Software version to be downloaded : 2.30

Software already exists on the
processor.
Do you really want to download a new
version of software?

Y=Yes

N=No

11. Key in Y and this screen is displayed:

MESSAGE

**Please wait! Attempting to establish
communication with the processor.**

12. This screen is displayed when the LAPTOP is downloading the operating software to the processor and throughout the entire download process. If an error occurs during downloading, an appropriate error screen is displayed.

RA PROCESSOR SOFTWARE DOWNLOAD

SOFTWARE DOWNLOAD IN PROGRESS !

Software version : 2.30

NOTE

This download process takes approximately 5 minutes.

13. Once the software is downloaded, a download completed message is displayed.

MESSAGE

**Software download has been completed
successfully!**

Any Key=Continue

14. Press ENTER.
15. Select **EXIT** from the MAIN MENU and press ENTER.
16. Select **QUIT THE PROGRAM** from the GLOBAL MENU and press ENTER.
17. Switch off the XML300.
18. Switch on the XML300.
19. Install any non-default parameters recorded in step 4 page 20.

PART 3: REPLACEMENT OF THE CASSETTE BLOWPIPES

SAFETY WARNING

WHILE REPLACING THE CASSETTE BLOWPIPES MAKE SURE THAT THE CASSETTE OPENER CANNOT BE STARTED ACCIDENTALLY. THE BLOWPIPES WILL BE INSTALLED IN THE CASSETTE OPENER AREA. THE OPENER MOTOR AND THE OPENER MECHANISM ARE VERY STRONG. THEY CANNOT BE MOVED MANUALLY. THEY MAY SQUEEZE YOUR HAND AND TRAP YOU IF YOU TRY TO STOP THEM MANUALLY. NEVER START THE CASSETTE OPENER MOTOR WHEN SOMEONE'S HANDS ARE IN THE CASSETTE AREA.

NOTE

When you install a BLOWPIPE make sure that the INSULATING TUBE is mounted as shown. If the original one became damaged cut off approximately 5mm from 922020 and use it instead. It is most important that this INSULATING TUBE is mounted correctly otherwise it could clog the BLOWPIPES.

Do not overtighten the MOUNTING SCREW. The BLOWPIPE would become squeezed.

If the MOUNTING SCREW becomes damaged when you open it, replace it with **SETSCREW 4283091**

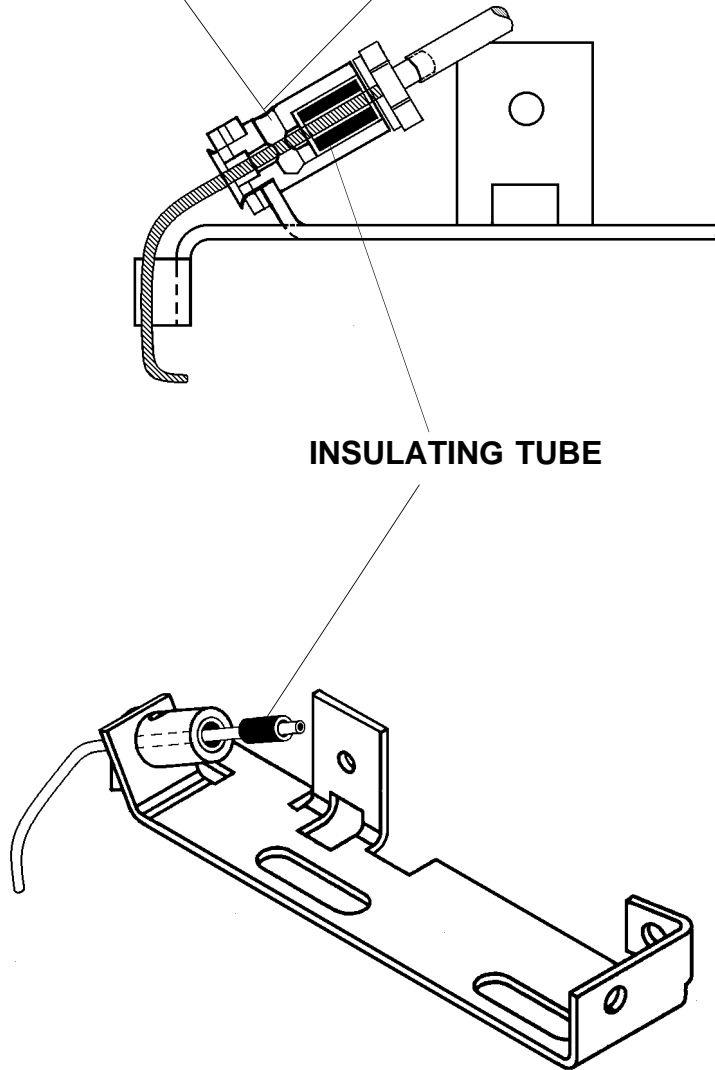


figure 5

1. Switch off the XML300
2. Remove and discard the original CASSETTE BLOWPIPES.

INSTALLATION OF THE RIGHT-HAND CASSETTE BLOWPIPE

3. Use the BLOWPIPE POSITIONER TL4583 with the R(ight) up.

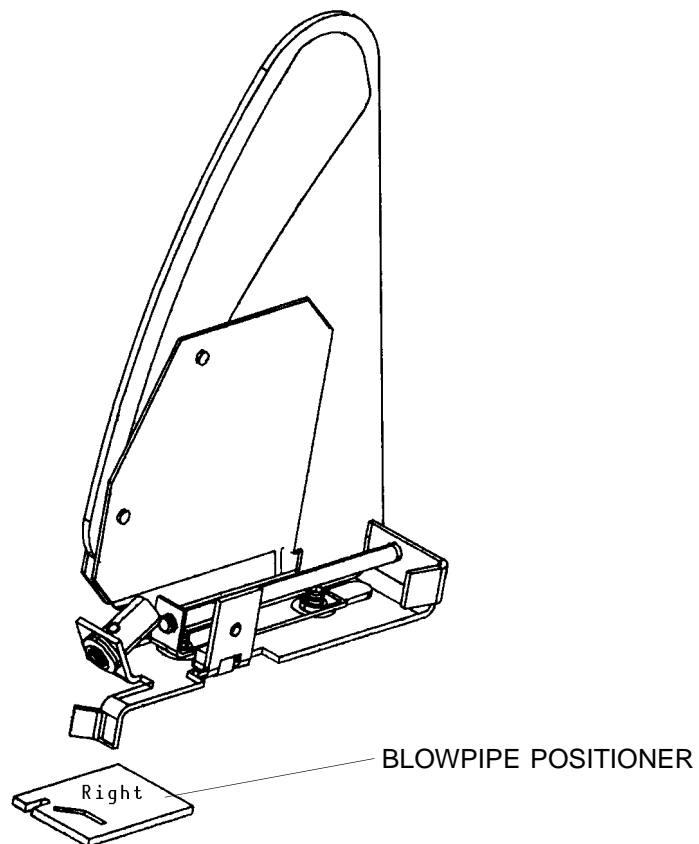


figure 6

4. Mount it on the right-hand side.

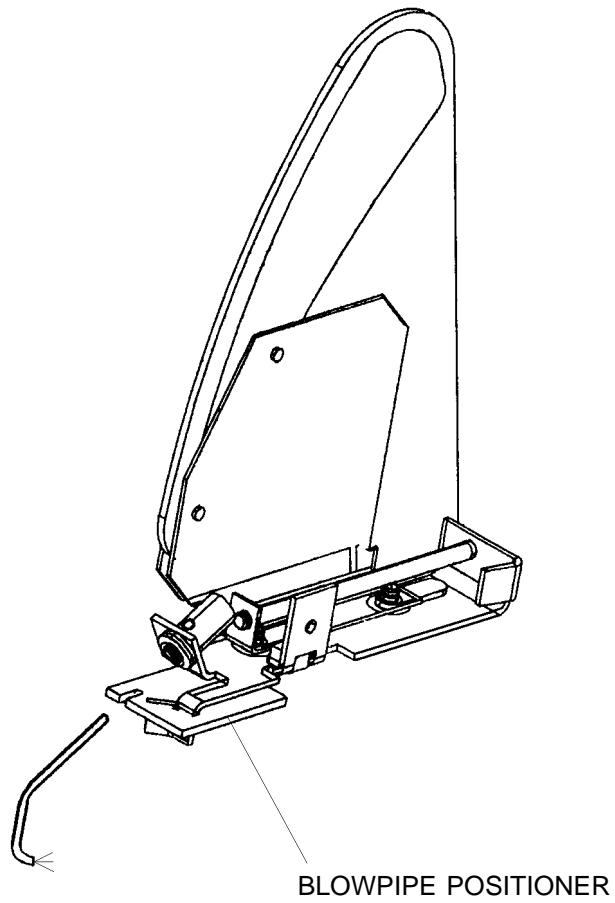


figure 7

5. Insert the new right-hand CASSETTE BLOWPIPE in the HOLDER and fasten the MOUNTING SCREW.

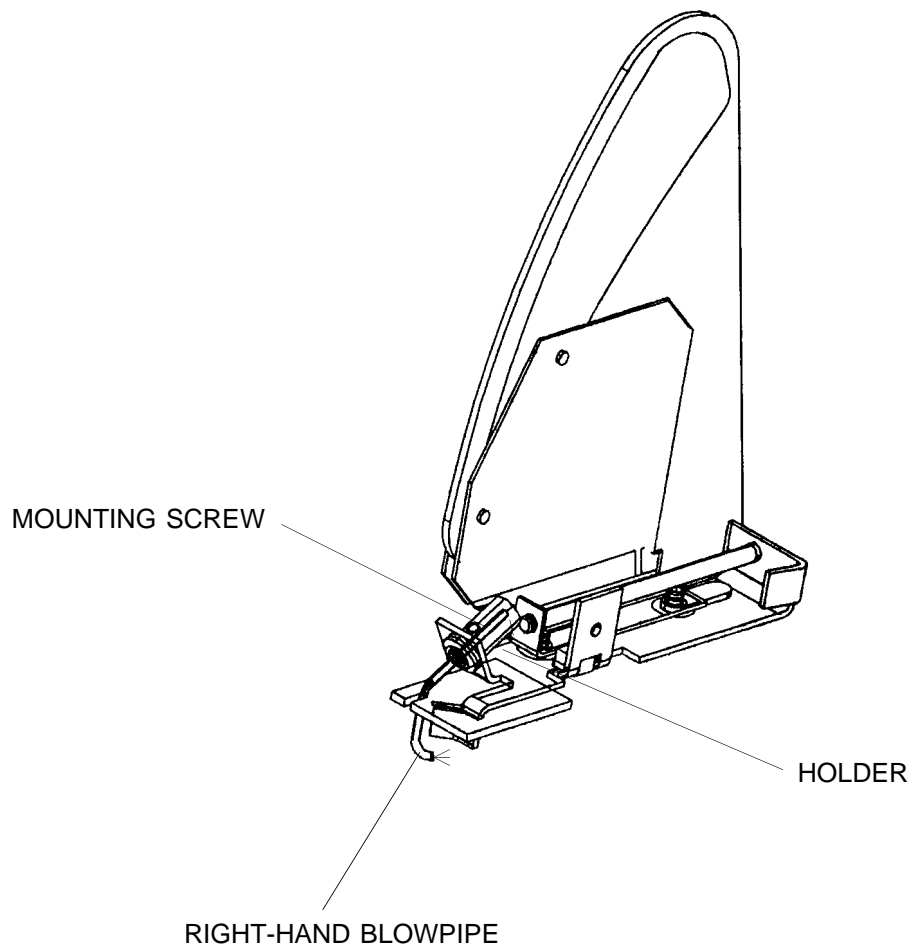


figure 8

6. Take out the BLOWPIPE POSITIONER

INSTALLATION OF THE LEFT-HAND CASSETTE BLOWPIPE

7. Use the BLOWPIPE POSITIONER TL4583 with the L(ef) up.

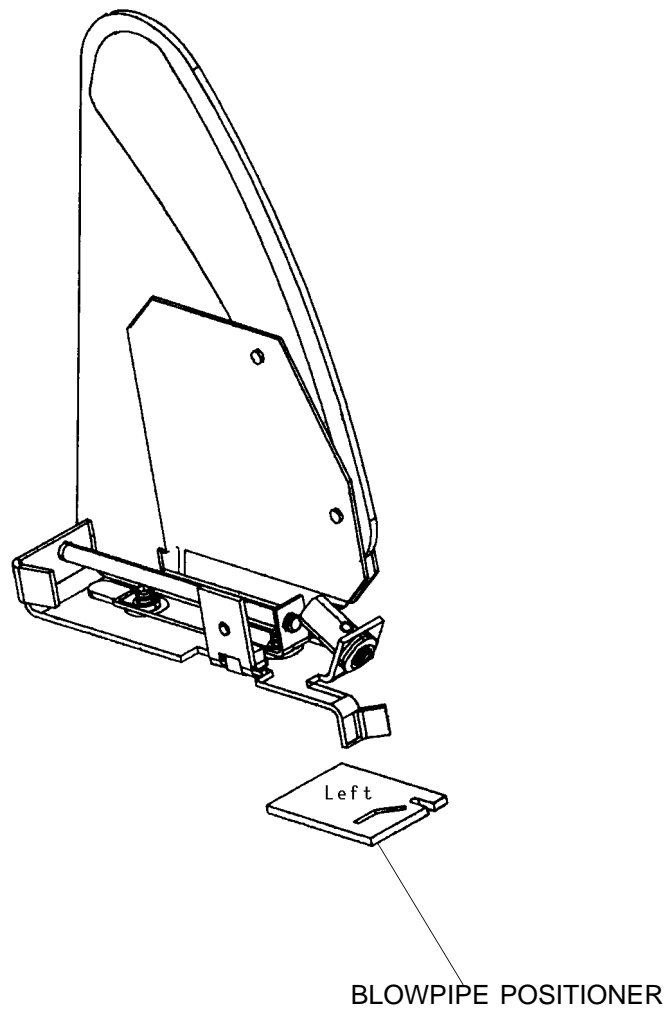


figure 9

8. Mount it on the left-hand side.

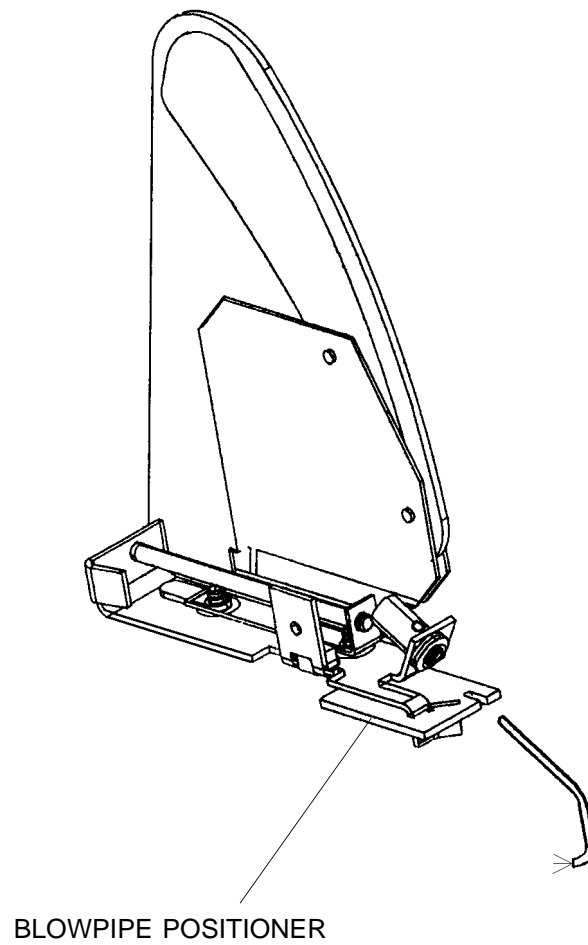


figure 10

- 9.** Insert the new left-hand CASSETTE BLOWPIPE in the HOLDER and fasten the MOUNTING SCREW.

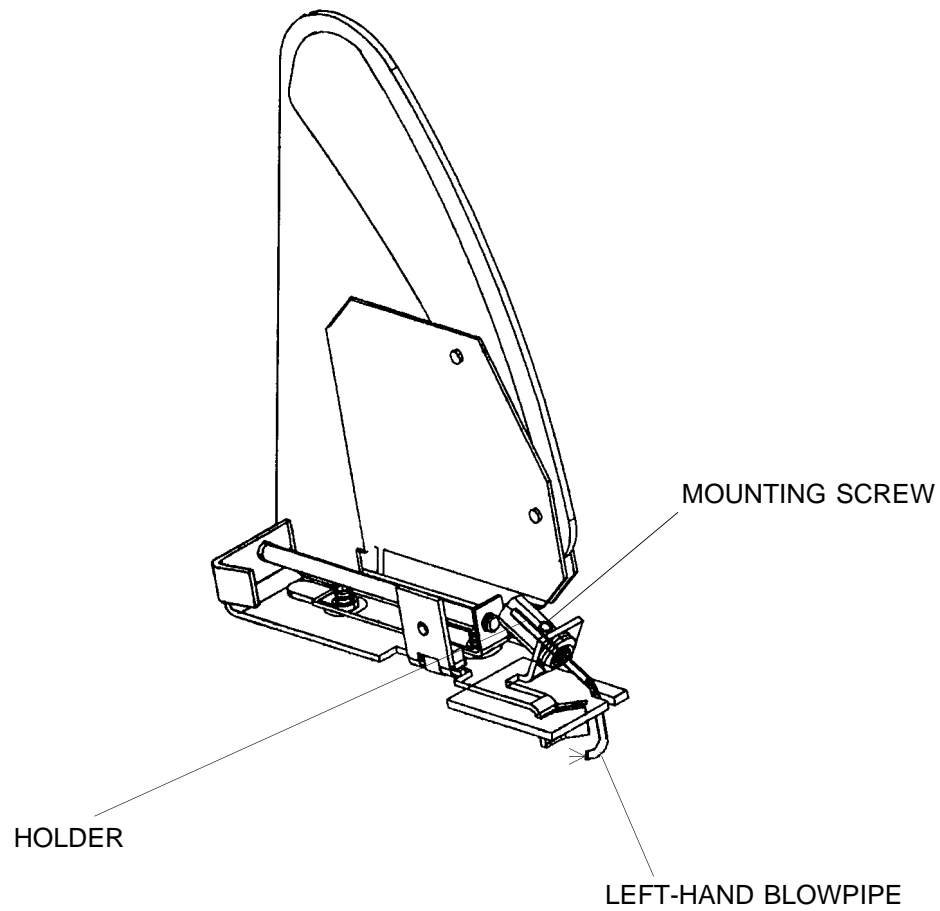


figure 11

- 10.** Take out the BLOWPIPE POSITIONER

PART 4: INCREASE OF THE PRESSURE IN THE PNEUMATIC SYSTEM.

1. Switch off the XML300.
2. Take out the complete BLEEDER VALVE ASSEMBLY with the MUFFLER and discard it.

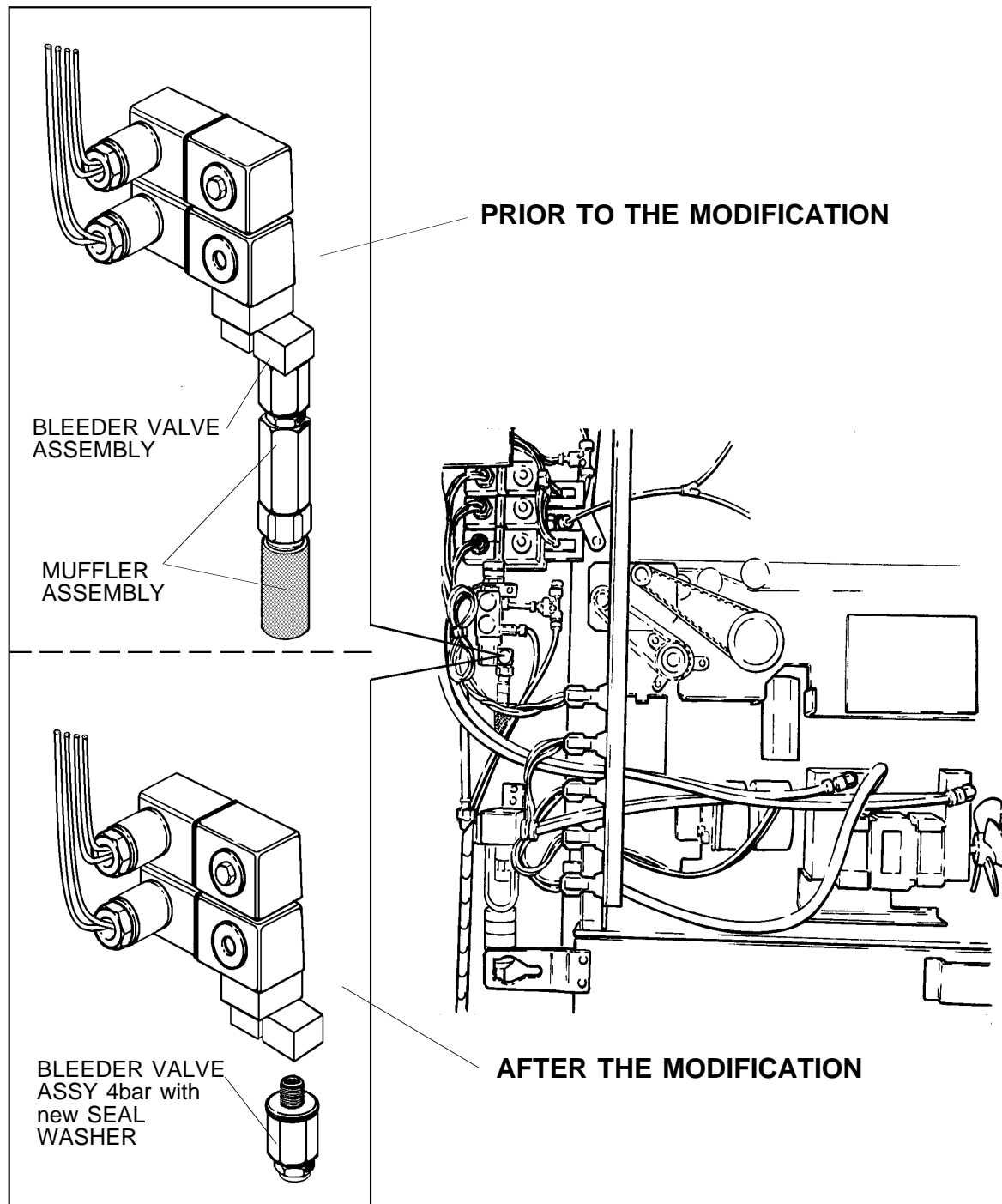


figure 12

3. Mount the BLEEDER VALVE ASSEMBLY 9227200 instead use a new SEAL WASHER (a MUFFLER is no longer needed) and tighten it. See figure 12.
4. Cut the blue hose at the output of SOLENOID Y11/M_PU_B 2 times that the AIR FILTER ASSEMBLY 9186886 can be mounted in between.

NOTE

The ARROWS on the AIRFILTER must point downwards.

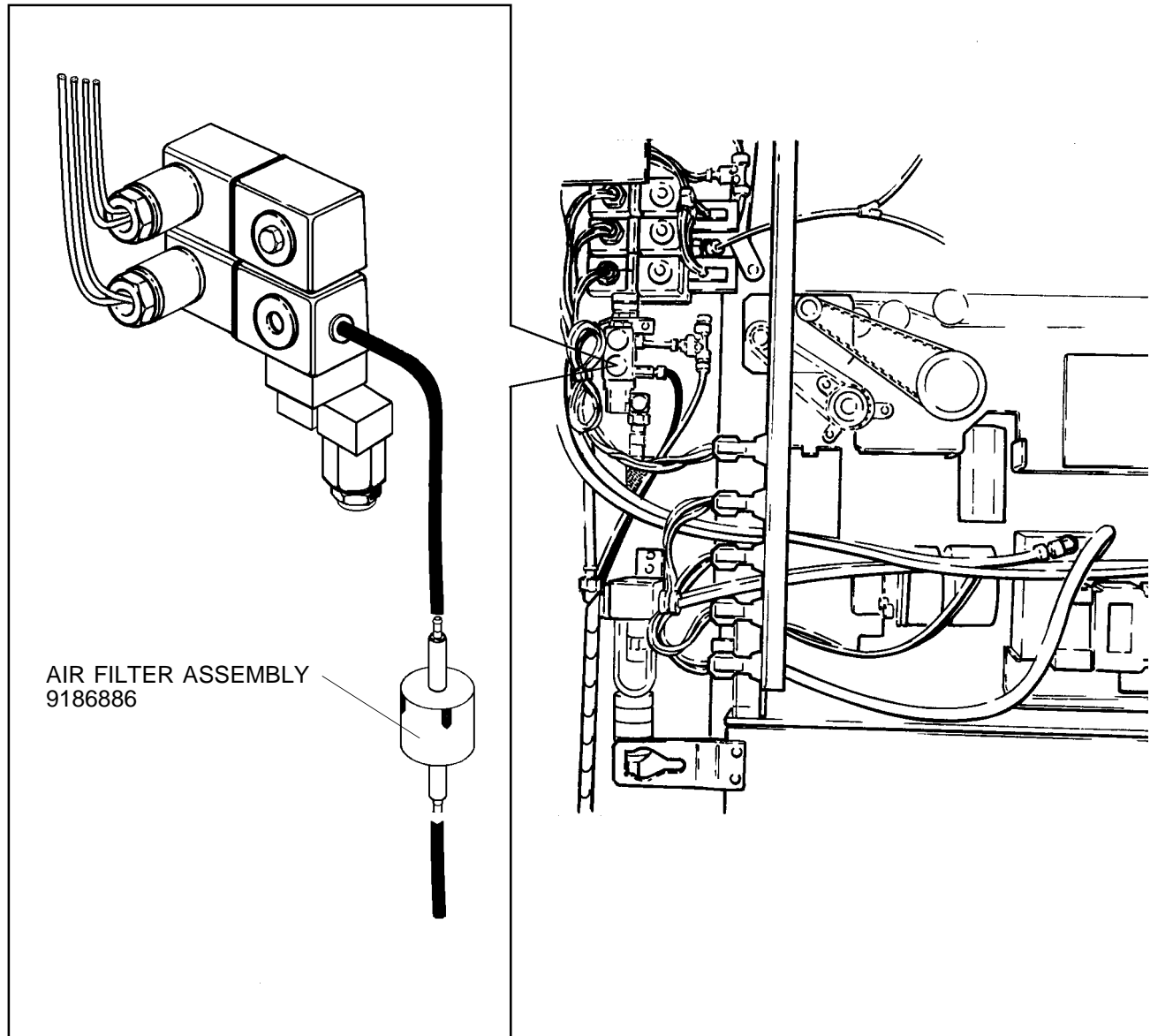
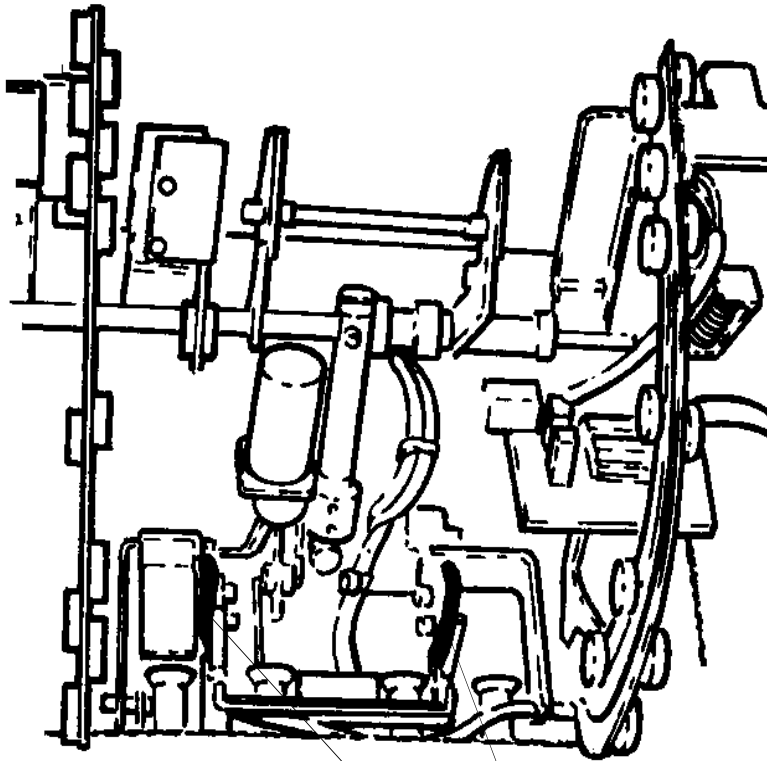


figure 13

5. If the 2 short hoses to the MAGAZINE BLOWPIPES are from clear(transparent) silicon proceed with step 6 else proceeed with step 8.



SHORT CLEAR (TRANSPARENT) SILICON HOSES

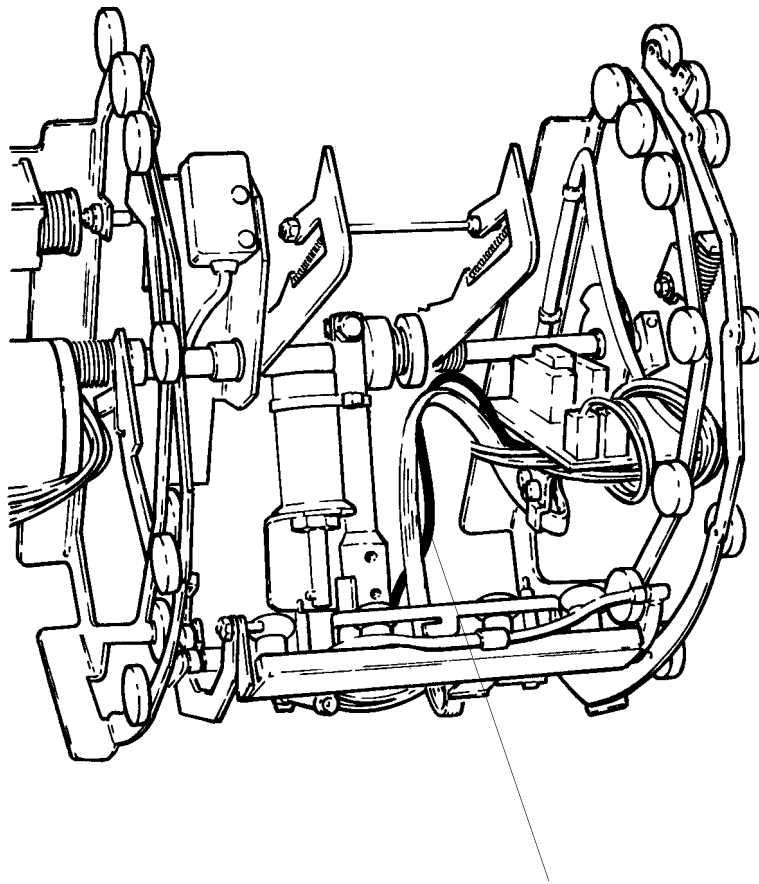
figure 14

6. Remove the 2 short clear(transparent) silicon hoses and discard them.
7. Install the 2 new black short hoses from the mod kit instead.

8. Replace the long clear(transparent) **SILICON PRESSURE HOSE** against the new long black one from the mod kit and secure it again with wire ties. (There are 2 HOSES to the FILMPOCKET SUCKERBAR one is for the pressure to the BLOWPIPES and the other one is for the vacuum to the FILMPOCKET SUCKERS. Replace the one for the pressure.)

NOTE

Ensure that the HOSE-LOOP can move freely and does not become caught or kinked.



Long clear (transparent) SILICON PRESSURE HOSE

figure 15

NOTE

The following steps are important to avoid **DOUBLE FILM PICK UP** from the **MAGAZINE**. This could be caused by misadjusted **FILMPOCKET BLOWPIPES** after the pressure became increased.

9. Switch on the XML300.
10. Start the SERVICE PROGRAM.

Key in **C:** and press ENTER.
Key in **cd\xml300** and press ENTER.
Key in **START** and press ENTER.
11. Select **SERVICE MODE ML300** from the GLOBAL MENU.
12. Select **COMPONENT TEST** from the MAIN MENU.
13. Select **MAGAZINE MOTORS** from the COMPONENT TEST.
14. Select **COMPRESSOR (M16)** and turn it on.
15. Press **Backspace** or **Esc** to go back to the SCREEN COMPONENT TEST.
16. Select **SOLENOID VALVES**.
17. Select **MAGAZINE SUCKING (Y12)** and turn the SOLENOID VALVE on.
18. Press **Backspace** or **Esc** to go back to the SCREEN COMPONENT TEST.
19. Select **SOLENOIDS** from the COMPONENT TEST.
20. Select **TILTING MAGAZINE SUCKERBAR Y14** and turn it on.

NOTE

Do not leave the SOLENOID switched on for a long time. It becomes very hot.

21. Place the **BLOWPIPE POSITIONER MAGAZINE TL4582** onto the FILM POCKET SUCKERS.

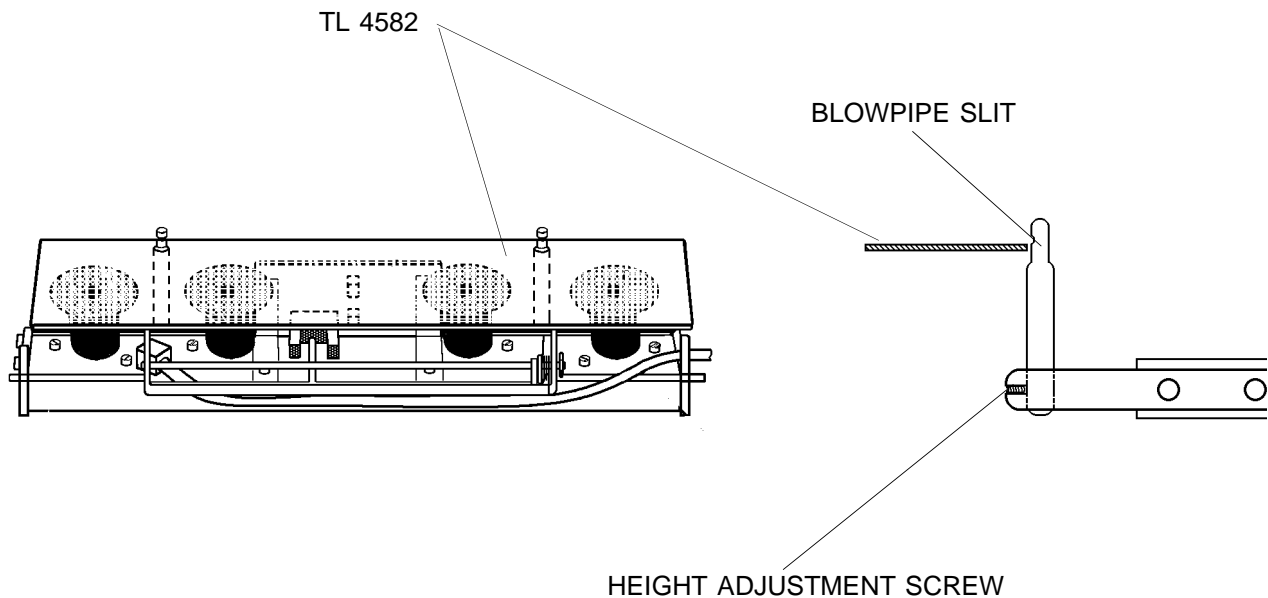


figure 16

22. Check that the slit of the BLOWPIPES is just above the BLOWPIPE POSITIONER.
23. If the position of the slit is not correct loosen the height adjustment screw of the BLOWPIPES and move them up or down as required. Then fasten the SCREWS.
24. Turn off **SOLENOID Y14**.
25. Press **Backspace** or **ESC** to go back to the SCREEN COMPONENT TEST.
26. Select **SOLENOID VALVES**.
27. Select **MAGAZINE SUCKING (Y12)** and turn it off.
29. Select **MAGAZINE BLOWING (Y11)** and turn it on to release the BLOWPIPE POSITIONER from the SUCKERS.
30. Turn off **SOLENOID Y11** and press **Backspace** or **ESC** to go back to the SCREEN COMPONENT TEST.

- 31.** Select **MAGAZINE MOTORS**.
- 32.** Select **COMPRESSOR (M16)** and turn it off.
- 33.** Press **Backspace** or **Esc** until you are back at the MAIN MENU.
- 34.** Select **QUIT THE ML300 SERVICE MODE** and press ENTER.
- 35.** Select **Quit the program** and press ENTER.
- 36.** Disconnect the LAPTOP.

FINAL TEST

1. Run several test cycles with MIN R2 and X-Omatic CASSETTES and check that the BLOWPIPES are blowing correctly.

NOTE

Use TESTFILMS for this procedure. Fresh FILMS would be fogged due to the missing PANELS.

2. Circle No. 10 on the MODIFICATION LABEL.

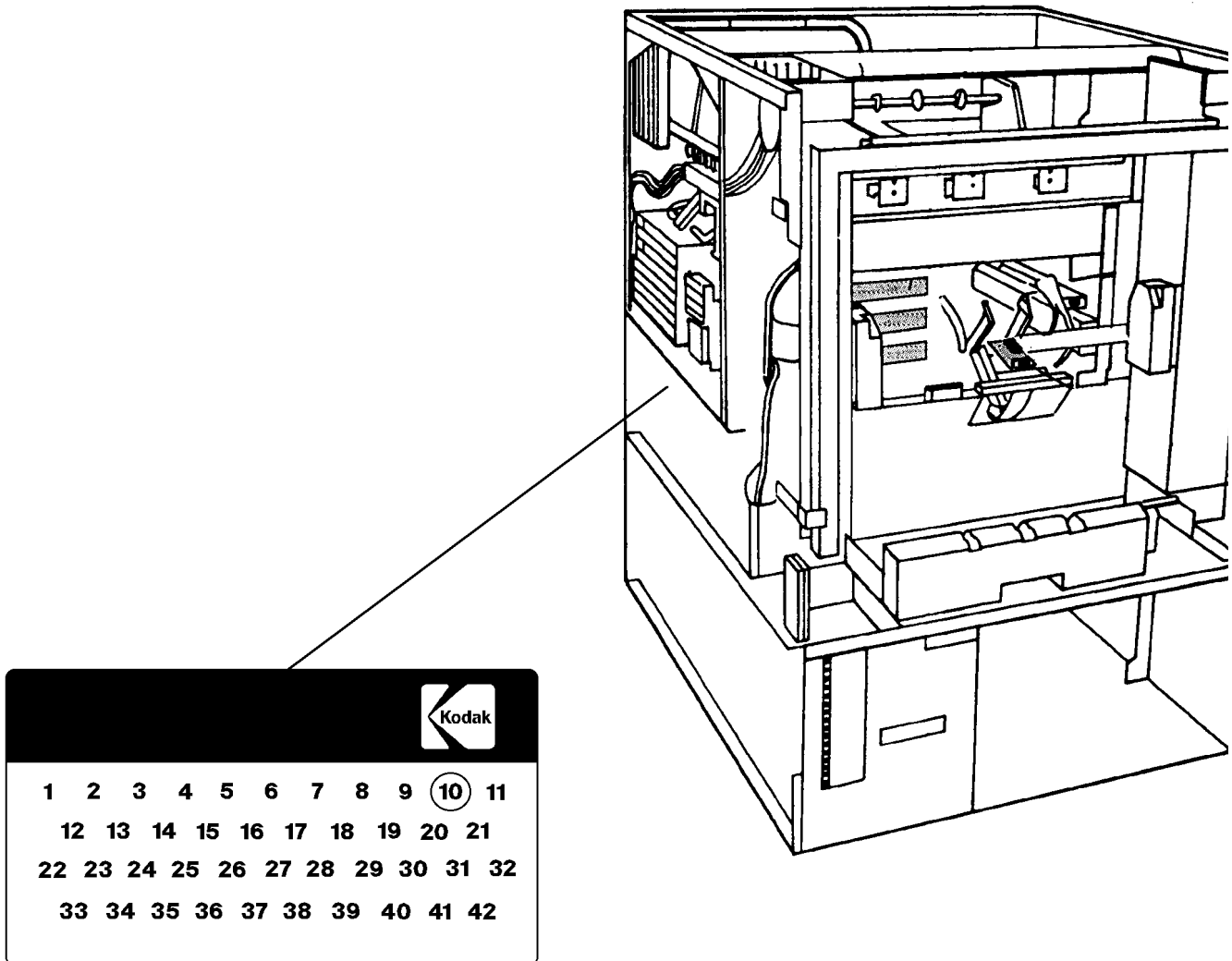


figure 17

- 3.** Mount all PANELS.
- 4.** Run once more a cycle to ensure correct operation.
- 5.** Take out the TEST FILMS and load the MAGAZINES with fresh FILMS.



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