

# MODIFICATION INSTRUCTIONS

for the

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

Service Code 3058

### **MODIFICATION No. 22**

### **TYPE 1 REQUIRED**

#### PURPOSE:

To prevent the wires to SENSORS B11/12 (CASSETTE CENTERING LEFT AND RIGHT) and SENSORS B21/22 (TYPE 2) being broken as the CENTERING BARS move.

**IMPORTANT** : Use qualified service personnel to install this modification!

**SERIAL NUMBERS** : 1001-1385

#### **NOTE**

**The following units are in addition equipped with the new cable harness:  
SN 1007, 1022, 1043, 1128, 1175, 1183, 1211, 1227, 1230, 1238,  
1240-1243, 1246-1250, 1277-1279, 1287 and 1290**

**INSTALLATION TIME** : Approximately 1 hour

**SPECIAL TOOLS** : none

**PARTS REQUIREMENTS** : MOD KIT#22 PN 9222280

**PLEASE NOTE**

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## PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
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**9222280..... MOD KIT #22**

**The Kit contains:**

9219271.....	MOUNTING BRACKET left.....	1
9219281.....	MOUNTING BRACKET right.....	1
9219282.....	THREADED PLATE.....	1
4283121.....	SCREWS .....	4
9218736.....	WIRE HARNESS left (long).....	1
9218737.....	WIRE HARNESS right (short) .....	1
6081850.....	WIRE TIES .....	10

## INTRODUCTION

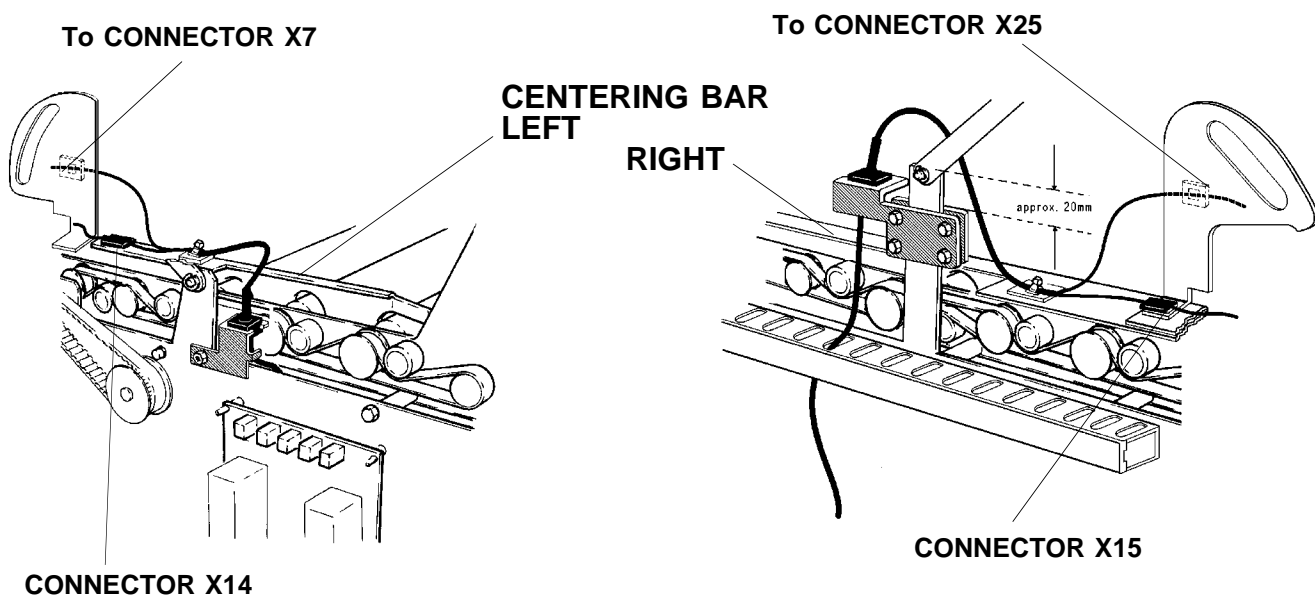
Due to the movement of the CENTERING BARS the wires to the SENSORS B11/12 (CASSETTE CENTERING LEFT AND RIGHT) and the wires to the SENSORS B21/22(TYPE 2) tended to break. To avoid this highly flexible wires have to be used instead.

# INSTALLATION

## NOTE

**Read the complete instructions before you start the installation.**

1. Power off the XML300.
2. Take off the PANELS.
3. Disconnect **SENSOR B12 CENTERING RIGHT** ( CONNECTOR X15 ) on CENTERING BAR right.
4. Disconnect **SENSOR B22 TYPE 2**( CONNECTOR X25 ) on CENTERING BAR right.
5. Disconnect **SENSOR B11 CENTERING LEFT** ( CONNECTOR X14 ) on CENTERING BAR left.
6. Disconnect **SENSOR B21 TYPE 2** ( CONNECTOR X7 ) on CENTERING BAR left.



**7.** Disconnect from **PCB A8** the following CONNECTORS:

**A8X25**

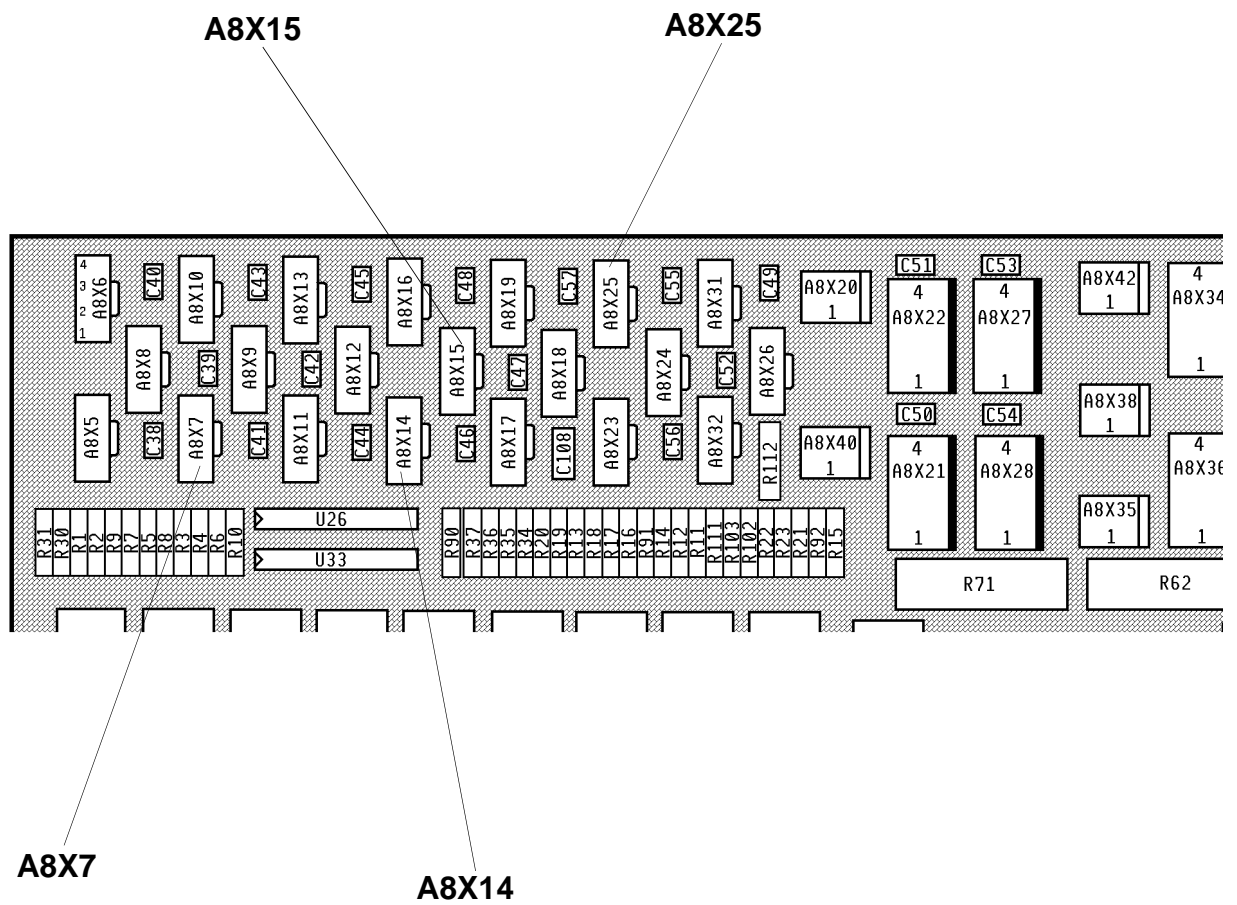
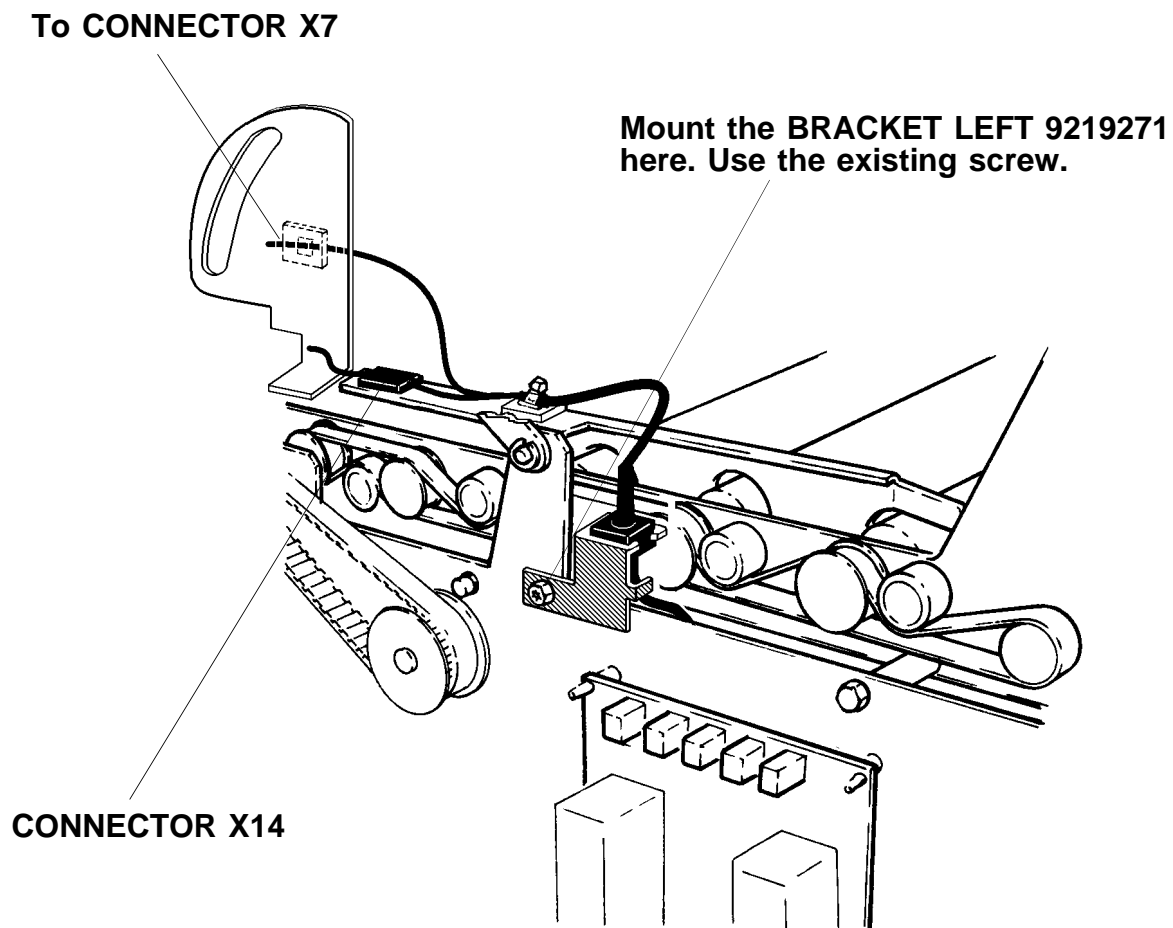


figure 1

8. On the right-hand side remove the harness for SENSORS B12 and B22 and discard it.
9. On the left-hand side cut off the harness ( not the SENSORS) for SENSORS B11 and B21.
10. On the right-hand side cut off the wires for the CONNECTORS A8X7 and A8X14. Pull the wires out one by one.
11. Mount the left MOUNTING BRACKET



**LEFT HAND VIEW**

figure 2

12. Mount the right MOUNTING BRACKET approx. 20mm below the upper end of the vertical bracket.

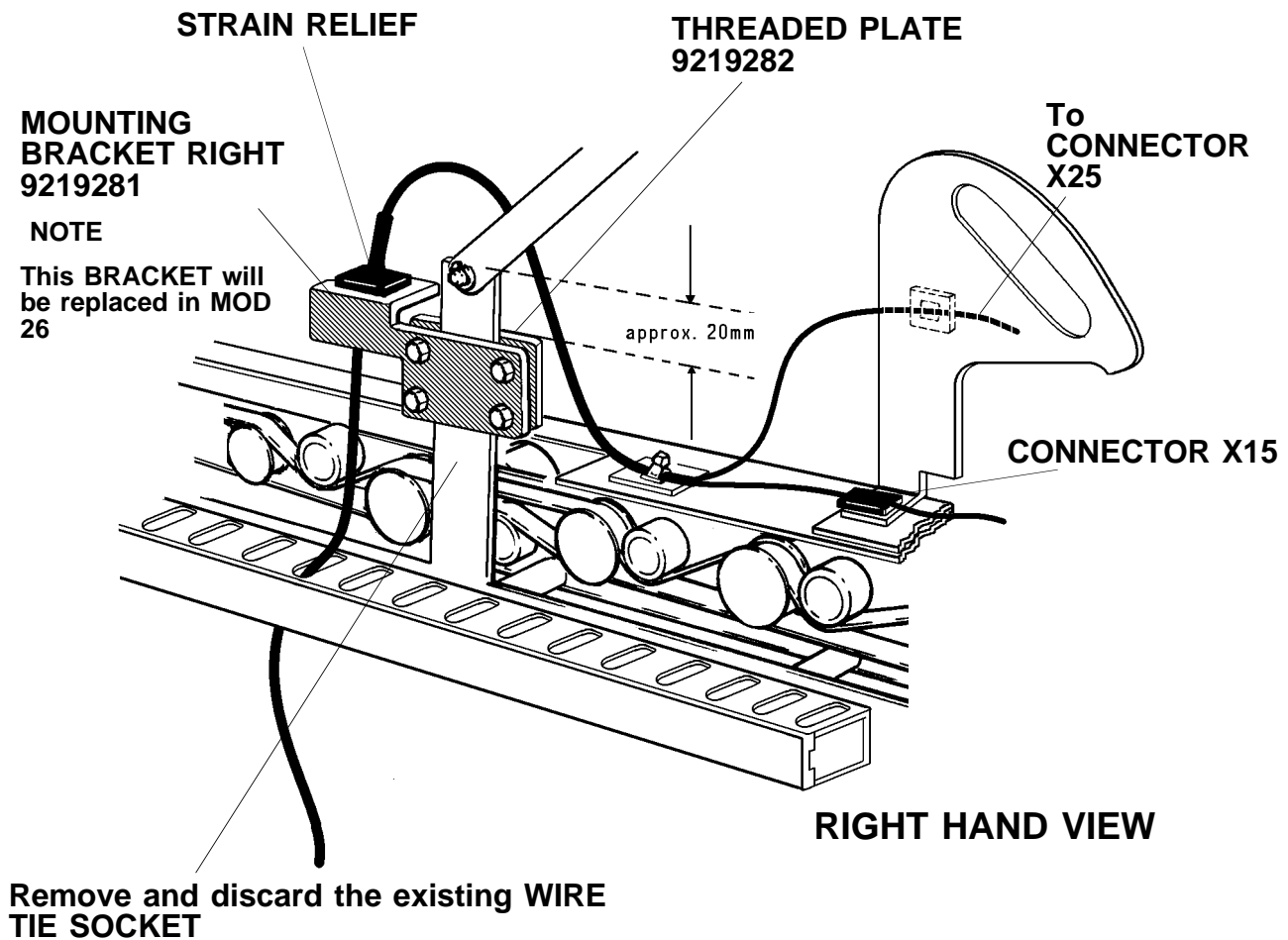


figure 3

13. Install the right-hand WIRE HARNESS (short). Engage its STRAIN RELIEF into the MOUNTING BRACKET. If the opening in the BRACKET is too small for the STRAIN RELIEF, open it a little with a PAIR of PLIERS.
14. Feed the HARNESS through the short CABLE DUCT above PCB A8.
15. Connect the SENSORS B12 and B22 ( Connectors X15 and X25). Right CENTERING BAR.
16. Plug in the CONNECTORS A8X15 and A8X25 on PCB A8.
17. Install the left-hand WIRE HARNESS ( long ). Engage its STRAIN RELIEF into the MOUNTING BRACKET. See figure 2. If the opening in the BRACKET is too small for the STRAIN RELIEF open it a little with a PAIR of PLIERS.

18. Connect SENSORS B11 and B21 (Connectors X7 and X14). Left CENTERING BAR.
19. Feed the HARNESS through the CABLE DUCT at the top of the MAGAZINE CHAMBER.

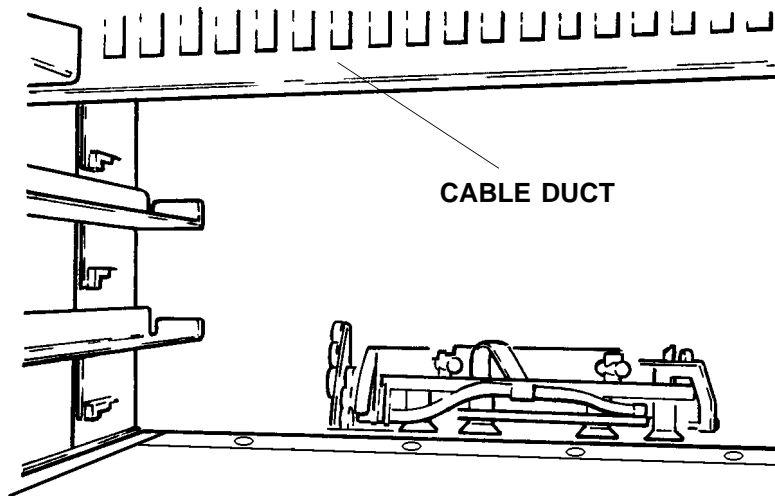


figure 4

20. Plug in CONNECTORS A8X7 and A8X14 on PCB A8.  
Route the excessive cable length through the small cable duct shown in figure 3.
21. Connect the SENSORS B12 and B22 ( CONNECTORS X15 and X25 ). Right CENTERING BAR.

- 22.** Fix the wires with wire ties to the CENTERING BARS. There are self adhesive WIRE TIE SOCKETS on the CENTERING BARS. **ENSURE THAT THE WIRE TIES ARE ON THE SHRINKING TUBE OF THE HARNESS.**

**NOTE**

**IT IS MOST IMPORTANT THAT THE WIRES TO CONNECTOR X7 AND CONNECTOR X25 CANNOT BE CLAMPED BY A CASSETTE AND THAT THEY CANNOT BE CAUGHT BY THE BLOWPIPE HOLDERS.**

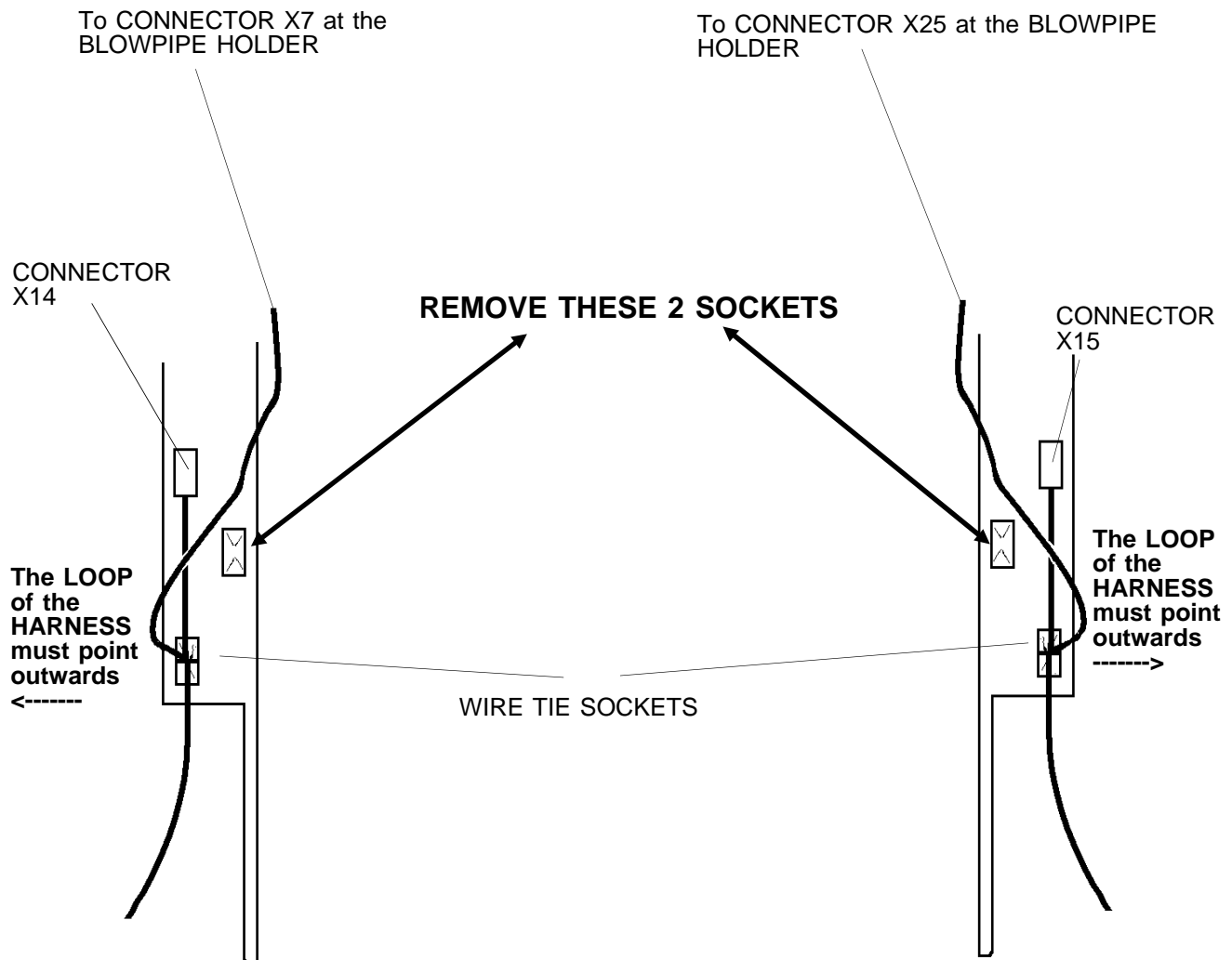


figure 5

23. Check that the CENTERING BARS can be moved fully out and in.
24. Do not fix the CASSETTE OPENER SOLENOID CABLE. It should move freely.

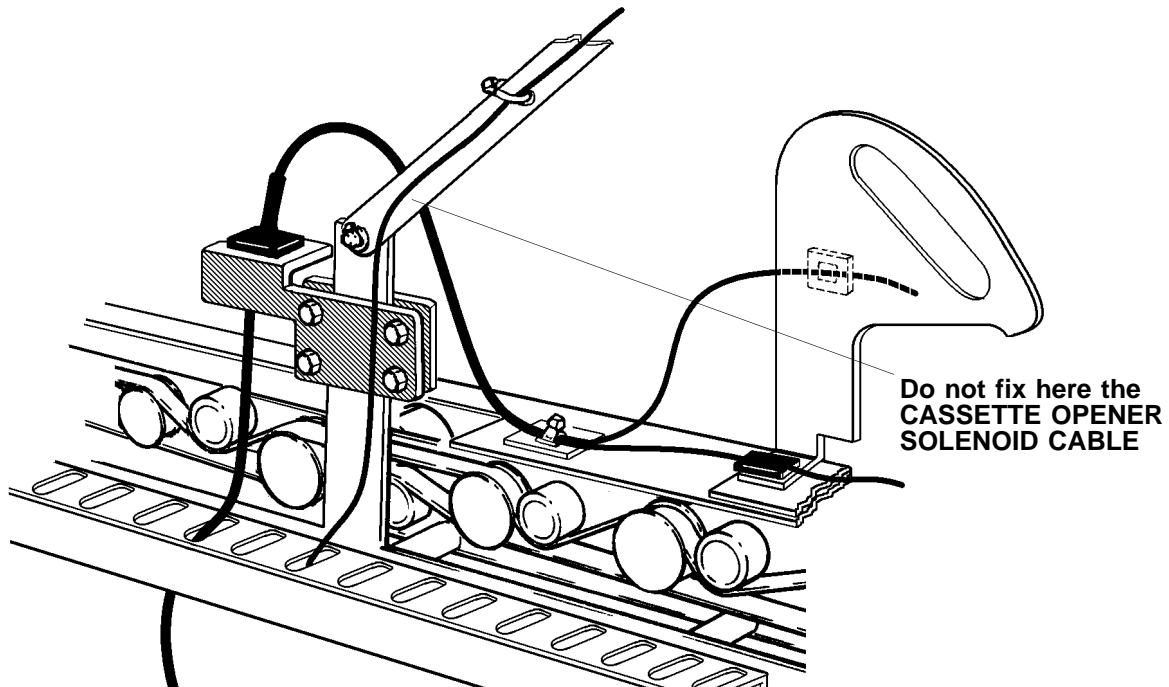
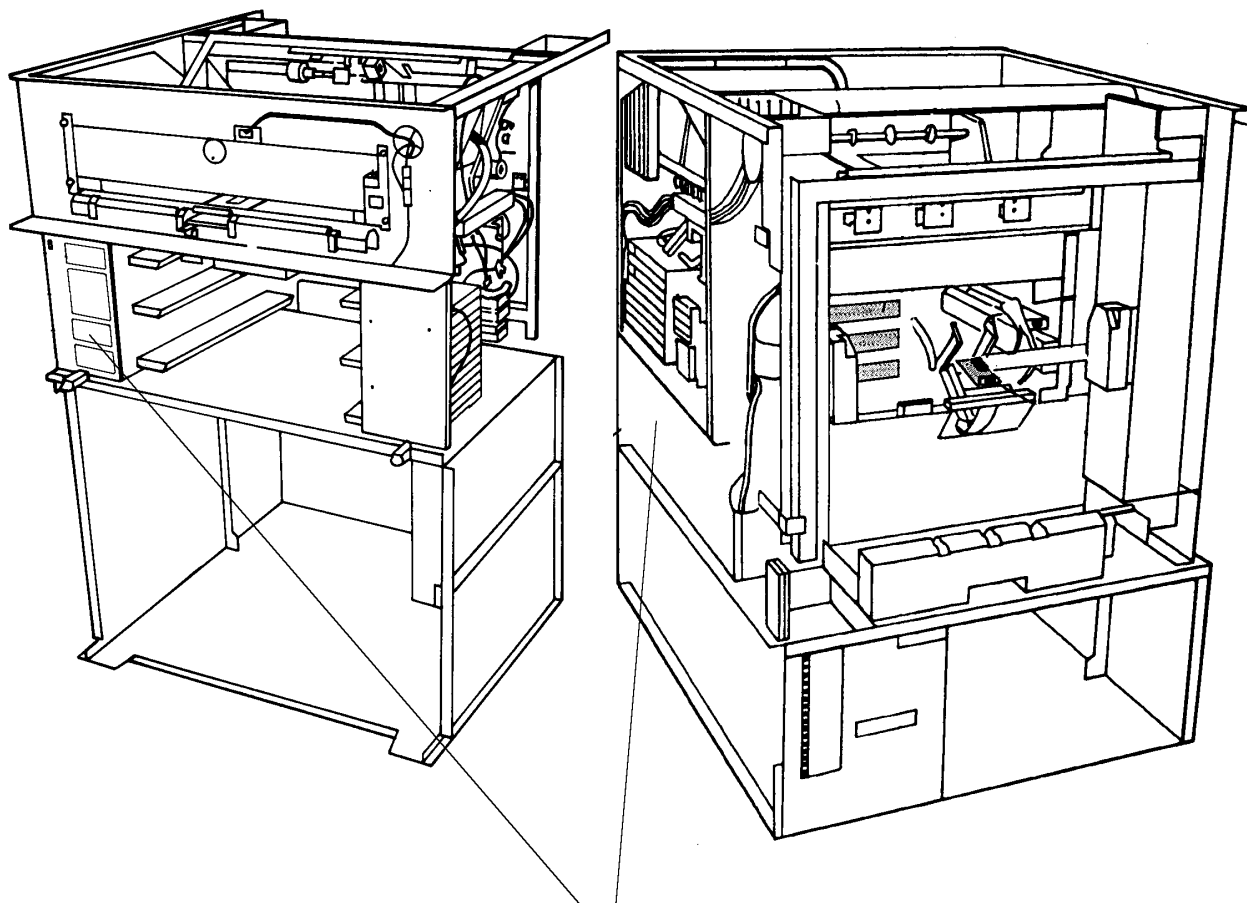


figure 6

25. Take out all MAGAZINES to avoid fogging of customer films
26. Power up the XML300.
27. Connect the LAP TOP and start the SERVICE MODE.  
Select the SERVICE MODE from the GLOBAL MENU.  
Select the COMPONENT TEST from the MAIN MENU.  
Select the SENSOR TEST from the COMPONENT TEST.  
Check the SENSORS B11, B12, B21 and B22.
28. Go back to the GLOBAL MENU and QUIT THE PROGRAM.
29. Circle No. 22 on the MOD LABEL.

from SN 1370

up to SN 1369




											
1	2	3	4	5	6	7	8	9	10	11	
12	13	14	15	16	17	18	19	20	21		
22	23	24	25	26	27	28	29	30	31	32	
33	34	35	36	37	38	39	40	41	42		

figure 7

## **FINAL TEST**

- 1.** Insert the smallest and largest MAGAZINE loaded with TEST FILMS into the ML300.
- 2.** Run a few cycles with the smallest and the largest CASSETTES. Check that the new HARNESS moves freely and that it is not caught by the OPENER MECHANISM.
- 3.** Mount all PANELS.
- 4.** Insert all MAGAZINES loaded with customer films into the ML300.
- 5.** Run once more a few cycles to ensure correct operation.





**CUSTOMER EQUIPMENT SERVICES KODAK AG STUTTGART GERMANY**