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MODIFICATION INSTRUCTIONS

for the

KODAK X-Omat MULTILOADER XML300

Service Code 3058

MODIFICATION No. 8

Type 1

PURPOSE:

The OPERATING SOFTWARE 1.24 will be replaced against version 1.25 to improve the function of the XML300 and to reduce the amount of none-resetable Service-Calls.

IMPORTANT : Use qualified service personnel to install this modification !

SERVICE EFFECTS : Service Software 1.26 is required (TL4462).

SERIAL NUMBERS :1001 to 1043 and 1048 to 1053

Do not modify the following units SN 1005, 1007, 1012, 1031, 1033, 1037 and 1041

INSTALLATION TIME : Approx. 1.0 hour

SPECIAL TOOLS : None.

PARTS : See Parts List

PLEASE NOTE

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PARTS LIST

PART NO.	DESCRIPTION	QUANTITY

9225060..... MOD KIT No. 8

Parts for PCB A1 (Main Processor) :

FLASH EPROM P1 1

FLASH EPROM P2 1

BOOT EPROM ML300 B Vers A 1.25 1

Parts for PCB A3/1 (Slave Processor Cassette Unit) :

FLASH EPROM CAS 1

BOOT EPROM ML300 CAS Vers A 1.25 1

Parts for PCB A3/2 (Slave Processor Magazine Unit) :

FLASH EPROM MAG 1

BOOT EPROM ML300 MAG Vers A 1.25 1

NOTE

Only the complete Kit is available!

INTRODUCTION

Starting with SN 1055 SOFTWARE VERSION 1.25 was released.

NOTE

For the 270RA PROCESSOR OPERATING SOFTWARE 2.22 or higher is required!

All ERRORCODES of this version are described in the DIAGNOSTICS MANUAL DG 3058-1 from 5/91. This Manual is sent out to all trained FE's.

NEW FEATURES

1. If a function is selected via the OPERATOR KEYBOARD it is no longer terminated by a timeout. To terminate it press DONE/RETURN. If a LAPTOP communication takes place the function will be terminated, too.

2. The PROCESSOR ERRORCODES may be displayed in decimal or hexadecimal. If a PROCESSOR problem occurs press the CODE BUTTON and the 10 digit ERRORCODE will be displayed.

NOTE

For SCAN FEEDBACK use the hexadecimal code only.

3. The MAGAZINE-INCH FLAG is no longer used. The coding for 10x12 INCH X and 11x14 INCH_X is changed. See figure 1.

NOTE

After changing the MAGAZINE CODES these MAGAZINES can no longer be used in a ML700.

4. An error in the PROCESSOR will terminate SERIAL UNLOADING.

5. After POWER UP it takes some time for the PROCESSOR to read the correct temperatures. If during this time the PROCESSOR MENU was displayed the temperature read17.6°C. This is now changed to 0°C.

6. The LOW VOLTAGE COVER INTERLOCK is now sensed. If the TOP COVER is not closed the following message is displayed:

COVER NOT IN PLACE

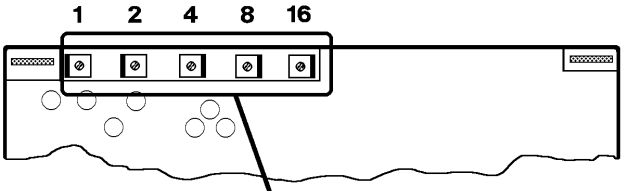
7. A selected MAGAZINE is indicated by an *****.

8. The ERROR-BEEP is turned off when starting the DIAGNOSTIC PROGRAM.

9. The "LAST SERVICE CALL" time and date is updated after the CES-SERVICE-SOFTWARE is ended and the LAPTOP is disconnected. This update can occur only once a day. This means it is not possible to count more than 1 Service Call a day.

10. The STEPPER MOTOR PROCESSOR INTERFACE M13 is turned off if an INTERFACE Failure occurs.

11. After POWER UP the CHECKSUMS of the EPROMS's are calculated.If they are not correct, the XML300 will not be started.



CASSETTE SIZE	FILM TYPE	CODE BRACKETS*	CODE Nº TYPE 1	CODE Nº TYPE 2
18x24 cm	X-OMATIC FILM		1	17
18x24 cm	MAMMOGRAPHY FILM		8	24
18x43 cm	X-OMATIC FILM		9	25
20x40 cm	X-OMATIC FILM		13	29
24x24 cm	X-OMATIC FILM		2	18
24x30 cm	X-OMATIC FILM		10	26
24x30 cm	MAMMOGRAPHY FILM		11	27
30x35 cm	X-OMATIC FILM		6	22
30x40 cm	X-OMATIC FILM		14	30
35x35 cm	X-OMATIC FILM		4	20
35x43 cm	X-OMATIC FILM		12	28
8x10 inch	X-OMATIC FILM		5	21
8x10 inch	CRT FILM		3	19
10x12 inch	X-OMATIC FILM		15	31
11x14 inch	X-OMATIC FILM		7	23
		1 2 4 8 16		
TYPE 1 for all sizes				
TYPE 2 for all sizes				

* CODE BRACKETS : = = 0 = = 1

figure 1

INSTALLATION

NOTE

Do not mix up the old removed EPROMS with the new ones

1. **Connect the LAPTOP and record the PARAMETERS. After installing the new software they have to be set again with the LAPTOP.**

2. Switch off the XML300.

3. Take off the REAR- and LEFT-HAND PANEL.

CAUTION

To avoid damages due to static discharge take for the remaining steps proper ESD SAFETY PRECAUTIONS.

MODIFICATION OF THE MAIN PROCESSOR BOARD A1

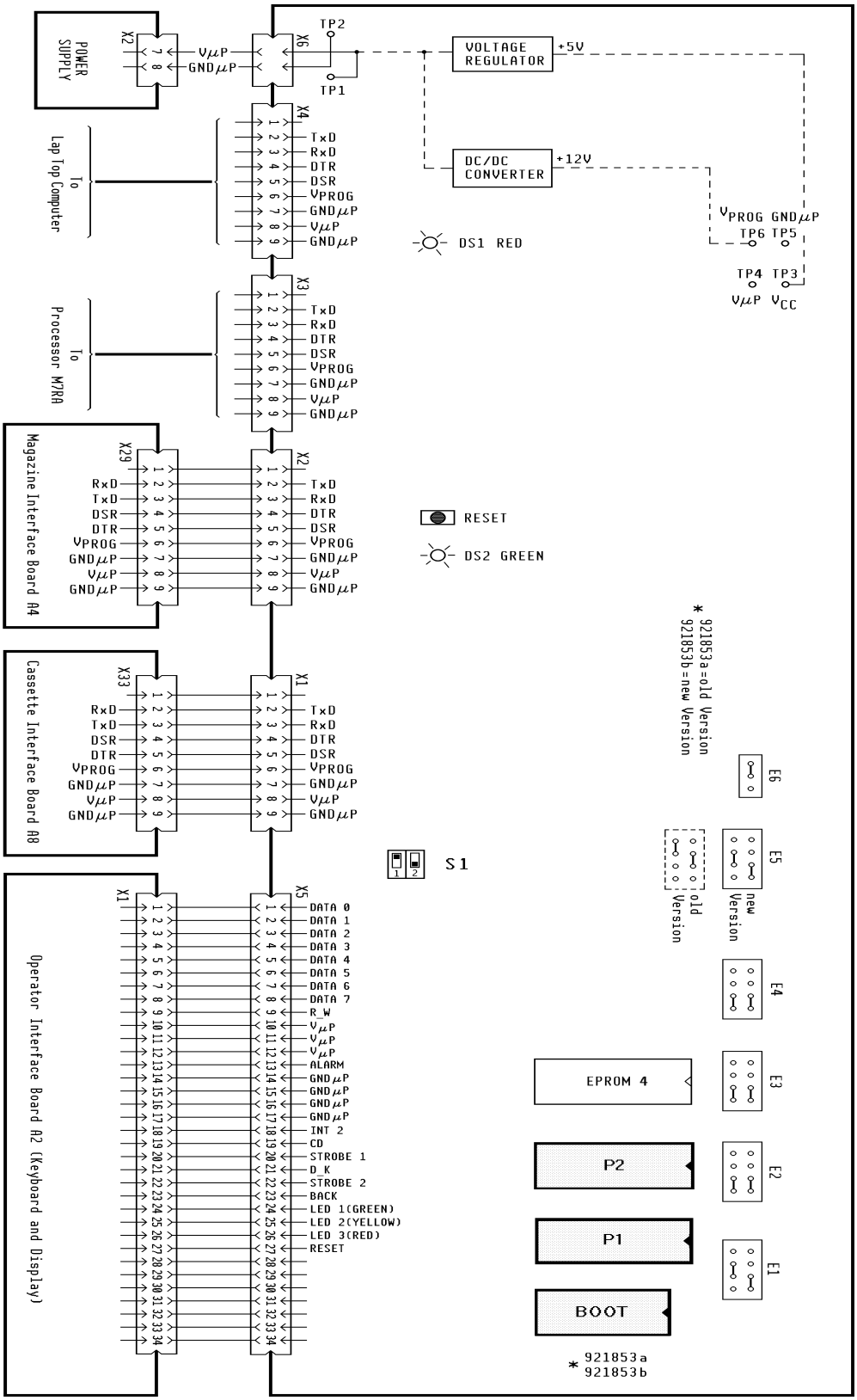
4. Remove the BOOT EPROM and the FLASH EPROM's P1 and P2 from PCB A1. See figure 2 on the next page.

5. Insert the new BOOT EPROM ML300 B Vers A 1.25 into the BOOT EPROM location.

6. Insert the FLASH EPROM P1 into the P1 location.

7. Insert the FLASH EPROM P2 into the P2 location.

8. For the correct JUMPER SETTING of E1, E2, E3, E4 and E5 see figure 2.



MAIN PROCESSOR CIRCUIT BOARD A1

figure 2

MODIFICATION OF THE CASSETTE UNIT SLAVE PROCESSOR PCB A3/1

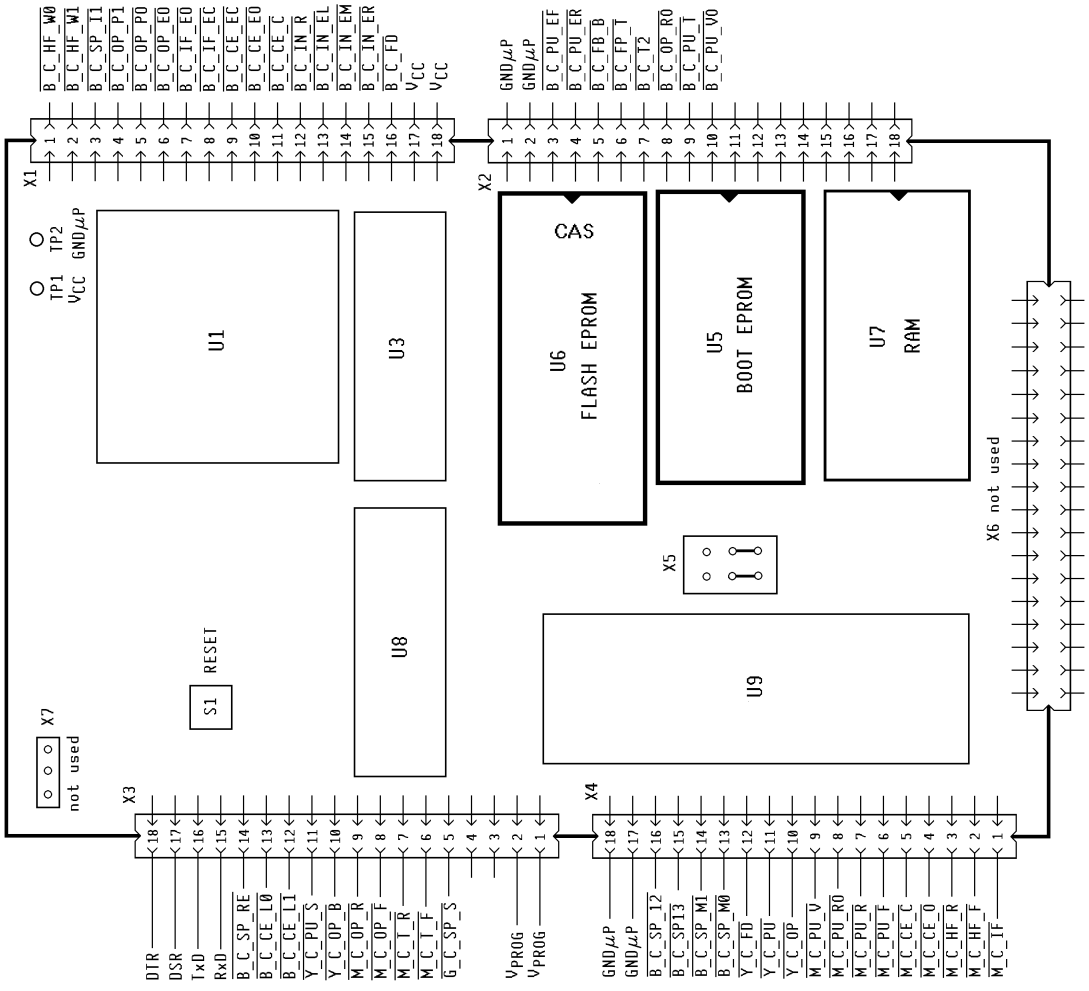
9. Pivot out PCB A1 to get access to PCB A3/1.

10. Remove the BOOT EPROM and the FLASH EPROM from PCB A3/1. See figure 3 on the next page.

11. Insert the new BOOT EPROM ML300 CAS Vers A 1.25 on PCB A3/1.

12. Insert the new FLASH EPROM CAS on PCB A3/1.

13. For the correct JUMPER-SETTING of X5 see figure 3.



SLAVE PROCESSOR CASSETTE UNIT PCB A3/1

figure 3

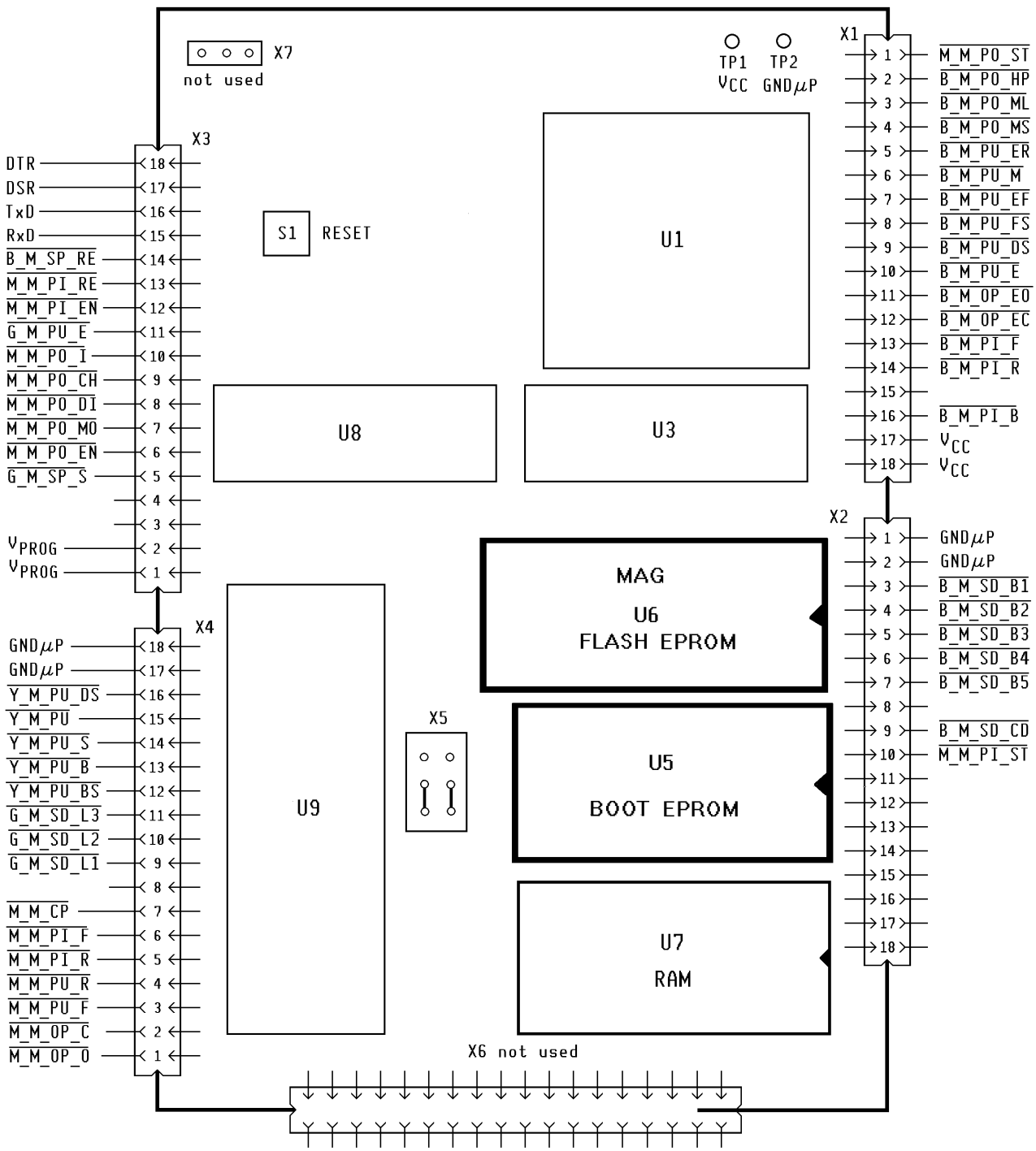
MODIFICATION OF THE MAGAZINE UNIT SLAVE PROCESSOR PCB A3/2

14. Remove the BOOT EPROM and the FLASH EPROM from PCB A3/2. See figure 4 on the next page.

15. Insert the new BOOT EPROM ML300 MAG Vers A 1.25 on PCB A3/2.

16. Insert the new FLASH EPROM CAS on PCB A3/2.

17. For the correct JUMPER-SETTING of X5 see figure 4.



SLAVE PROCESSOR MAGAZINE UNIT PCB A3/2

figure 4

18. Befor powering up the XML300 check once more that all newly inserted EPROMS are seated correctly.

19. Rotate PCB A1 back to its original position and lock it in place.

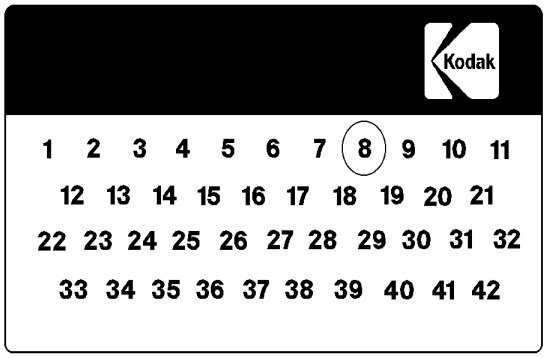


figure 5

20. Circle No 8 on the MODIFICATION LABEL.

INITIALIZATION OF THE NEW SOFTWARE

21. Power up the XML300

22. Connect the LAPTOP and start Service Software.

23. Clear all MEMORIES.

24. Set the CUSTOMER DATA. (Name Adress Date Time)

25. Start a SCAN RUN.

26. Do the CASSETTE LENGTH adjustment. Use the smallest CASSETTE available.

27. Do the NEARLY EMPTY adjustment.

28. Set the PARAMETERS recorded in step 1.

29. Leave the SERVICE SOFTWARE.

30. Check that the OPERATOR CONTROL PANEL gives correct information.

31. Select the required language.

32. Run several CYCLES with different CASSETTES.

33. Before mounting the PANELS check the setting of S1 on PCB A1. See the following procedure:

SWITCH SETTING ON MAIN PROCESSOR PCB A1

S1-1

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 options:

TIME This gives date and time.

HISTO This gives information on the last cycle. It is similar to the ERROR INFORMATION accessable via S2-2

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

Normally S1-2 should be set to OFF (down). If it is set to ON, 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.

NOTE

THIS ERROR INFORMATION CAN ONLY BE ANALYSED BY THE SPECIALITS IN THE FACTORY.

The next CES SERVICE SOFTWARE will include the possibility to download this ERROR INFORMATION to the HISTORY DISKETTE. This DISKETTE can then be sent to the factory for analysing the problem.

NOTE

If S1-2 is set to ON the top line of the DISPLAY will show strange characters. This is normal and cannot be changed.

For the location of S1 see figure 2.

FINAL CHECK-UP

34. Mount the PANELS.

35. Check once more for correct operation.

CUSTOMER EQUIPMENT SERVICES KODAK AG STUTTGART GERMANY