

Service
Service
Service

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FL1

93.04

2.
2.1

Service Information

1. General FL1

1.1 Operational reliability micro SOPS

As from week 9225 the following components have been modified in order to increase the operational reliability of the micro SOPS:

- position 2260 is now 4.7nF 4822 122 31784
- position 6260 is now BAV32L 4822 130 80446
- position 6262 is now BYD34G 4822 130 82353
- position 7270 is now BD825 4822 130 41746

These components are also included in the SOPS repair kits.

If the SOPS repair kit is used for a repair these components should therefore also be replaced. In this case care should be taken in avoiding that the degaussing connections do not come into contact with D7270. The best method of achieving this is by laying them under the SSP-LSP connection of L01-S01 (except for the 33" sets).

1.2 TDA4680 modified

During production the TDA4680 has been modified to the V6 version (4822 209 31592). This modification was introduced in week 9226.

Remarks: In all sets from after production week 9115 only the V5 or V6 versions may be used.

1.3 Modifications on the SSP

During production in week 9228 position 9481 on the small signal panel has been modified to a BAT85 (4822 130 31983) in order to improve the power supply of the TDA4680. This diode is mounted with the cathode on IC7430 (TDA4680).

1.4 Modification on the LSP

During production in week 9249 position 7216 on the large signal panel has been modified to a selected BUT12AF (4822 130 63239). This modification has been introduced because with a normal BUT12AF it is possible that the SOPS will not start up quickly enough, placing the set in the protection mode.

1.5 Modification SAT box

- In week 9234 position 3333 (47k) has been added to the D2MAC panel. This pull-up resistor is necessary for the D2sync signal of the TPU. This is in order to avoid a TPU error. The code number of this resistor is 4822 116 52284 and mounted between pin 11 of IC7330 and L5350.

- In order to avoid a plop in the FSS module, in week 9238 a LLZ-C2V has been added on positions 6891, 6892, 6911 and 6912, code number 4822 130 81223.

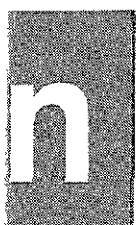
- In week 9241 positions 1802 and 1808 on the FSS panel have been modified. This modification has been introduced because distortions which are caused by the transponders may occur in language 3 on ASTRA. The modified components are:

- Position 1802 (7.2 MHz FC \geq +95kHz) 4822 242 81429
- Position 1808 (7.2 MHz FC \geq -95kHz) 4822 242 81428

Position 1802 is marked blue and position 1808 is marked blue.

- In week 9301 position 3041 on the connector panel has been modified in 0.91 Ω (4822 111 30987) in order to improve the LNC power supply.

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2. FL1.0 AD

2.1 FL1.8 and FL1.9

From the start of production until week 9240 FL1.0 sets have been produced with FL1.8 and FL1.9 on the type plate. These are actually FL1.0 sets with a serial number beginning with AG20 or higher.

For these sets the FL1.0 AD service manual and the FL1.0 92.05 service information should be used.

The difference with previous FL1.0 sets is:

- less buttons on the operating panel (Personal choice, language A, B, C, D, E have been dropped) Personal choice is now in the main menu and language is contained in the installation menu.
- A different remote control (RC71XX).
- Different software (see service information FL1 93.01).
- KAM filter possibly present (see service information FL1.0 92.05)

2.2 Service manual correction

In diagram G in the chassis manual TS7005 and TS7006 have been incorrectly illustrated. These transistors should be connected to earth via the collector and not the emitter.

2.3 Correction to service manual 4822 727 18366

In the service manuals for the following sets (25SL5760, 25SL5766 28SL5770 and 28SL5776) the code numbers of item 23 have been reversed.

This should be as follows:

- 4822 458 30594 Grill left/right for 28" sets
- 4822 458 50355 Grill left/right for 25" sets

2.4 Correction to service manual 4822 727 19886

In this service manual the code number of the door (item 22) for the 21PT700A/19R has been omitted.

This number should be: 4822 432 93119

2.5 Picture tube modification week 9311

During production in week 9311 the picture tubes of the 25" and 28" have been modified. The new picture tube has been introduced in sets with serial numbers beginning with AG26 or higher.

The modification is as follows:

Old:	A59EAK252X13	4822 131 20521
	A66EAK252X13	4822 131 20472
New:	A66EAK252X11	4822 131 20568
	A66EAK252X11	4822 131 20559

These new picture tubes are fully compatible with the old, the only difference is the connection on the deflection coil. This consisted of 2 connectors on the old picture tubes, and on the new picture tubes consists of only 1 connector. If an old picture tube is replaced by a new one then it is also necessary to replace the cable loom between the deflection coil and the LSP.

The code number for this cable is: 4822 321 62091

3. FL1.1 AC

3.1 Corrections to service manuals FL1.1 AA/AB/AC

In diagram G of these service manuals TS7005 and TS7006 are incorrectly illustrated. These transistors should be connected to earth via the collector and not the emitter.

3.2 Corrections to service manual 33ML8990 (4822 736 18873)

In this service manual the code number of the picture tube is incorrect. This picture tube should be an A80EBK221X33 with code number 4822 131 20453.

4. FL1.2 AB/BB

4.1 Introduction of new DNR specification

During production in week 9301 (week 9245 for /05 sets) new software was introduced. This software has been introduced in sets with a serial number beginning with AG22 or higher.

With this software (V52) it is possible to switch off the LFR and adjust the DNR per channel. The code number for this software is 4822 900 10337.

At the same time the bidirectional status on the SCART connection has been introduced with this modification.

4.2 Introduction new 36" picture tube

During production in week 9312 a new picture tube has been introduced in 36" sets. This new picture tube has been introduced in sets with serial numbers beginning with AG23 or higher.

The code number of the new picture tube is 4822 131 20563.

This new picture tube is fully compatible with the old one.

5. FL1.6 AA

5.1 Corrections to chassis manual FL1.6 AA

- In diagram G of this chassis manual TS7005 and TS7006 are incorrectly illustrated. These transistors should be connected to earth via the collector and not the emitter.
- In diagram H the code number of the microprocessor panel has been omitted. The code number for this panel is 4822 212 30501 and the code number for the software is 4822 900 10333.

5.2 Correction to service manual 33ML8905

In this service manual the values for option code 1 are incorrect.

The correct values are:

33ML8905/00B/02B/06B/08B	154
33ML8905/05B	217
33ML8905/10B/13B/16B	218
33ML8905/19B	156

5.3 Flyback protection modification

During production the following components on the large signal panel have been modified in order to improve flyback protection:

- position 2547 is now 2.7nF 4822 122 33498
- position 3547 is now 5.1Ω 4822 051 10518

5.4 Introduction of new DNR specification

New software has been introduced during production in week 9301 (week 9245 for /05 sets). This software has been introduced in sets with a serial number beginning with AG03 or higher. With this software (V54) it is possible to switch off the LFR and adjust the DNR per channel. The code number for this software is 4822 900 10356.

5.5 New SSP with FQ916 front-end for /13 sets

During production a new small signal panel for the /13 sets has been introduced in week 9307. This panel has been introduced in sets with a serial number beginning with AG04 or higher. On this new panel the front-end has been replaced by an FQ916ME/BL (4822 210 10548) for the 25" and 28" sets, and by an FQ916DME/B (4822 210 10549) for the 33" sets.

Other components have also been modified with this front-end.

Removed

Position 2161
Position 3166
Position 4148

Added

Position 2124 22nF	4822 126 11544	
Position 2165 100nF	4822 122 31947	only for 33"
Position 2180 100nF	4822 122 31947	
Position 2181 22nF	4822 126 11544	
Position 4160 jumper	4822 051 10008	
Position 4161 jumper	4822 051 10008	
Position 9098 bridging wire		only for 33"
Position 9148 bridging wire		

Modified

Position 2166 is now 1000μF	4822 124 41829	
Position 3160 is now 10Ω	4822 052 10109	
Position 3162 is now 15Ω	4822 052 10159	
Position 3164 is now 1Ω	4822 051 10108	
Position 3165 is now 1Ω	4822 051 10108	
Position 3172 is now 15Ω	4822 052 10159	
Position 3211 is now 1Ω	4822 116 80176	
Position 3219 is now 560Ω	4822 051 10561	
Position 3220 is now 560Ω	4822 051 10561	
Position 3304 is now 360Ω	4822 051 10361	only for 25" and 28"
Position 3600 is now 300Ω	4822 051 10301	
Position 3603 is now 1Ω	4822 051 10108	
Position 3604 is now 2k7	4822 051 10272	

5.6 New picture tube in 28" sets

In week 9311 the picture tube in the 28" sets have been modified from an A66EAK252X43 (4822 131 20502) to an A66EAK252X44 (4822 131 20567). This modification has been introduced in sets with a serial number beginning with AG05 or higher.

During this modification the S-correction capacitor (C2520) on the LSP must also be modified to a 510nF 400V (4822 121 70281) at the same time.

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6.3 M

6.4 C

6.5 M

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6.7 S

6.8 S

6.9 T

6.10 M

6.11 M

6.12 M

6.13 M

6.14 M

6.15 M

6.16 M

6.17 M

6.18 M

6.19 M

6.20 M

6.21 M

6.22 M

6.23 M

6.24 M

6.25 M

6.26 M

6.27 M

6.28 M

6.29 M

6.30 M

6. FL1.7 AA

6.1 Correction to service manual 25ML8300 etc
Item 10 in this service manual has an incorrect code number. This should be 4822 218 21084.

6.2 New software

During production new software (V59) has been introduced in weeks 9249 and 9311. This software has been introduced in sets with serial numbers beginning with AG01 and AG03 or higher.

This new software prevents conflicts between the software manager and the local tasks (PIP, menu, sound, ...) in NICAM sets.

The code number for this software is 4822 900 10333.

6.3 New picture tube in 28" sets

In week 9311 the picture tube in 28" sets has been modified from an A66EAK252X43 (4822 131 20502) to an A66EAK252X44 (4822 131 20567). This modification has been introduced in sets with a serial number beginning with AG02 or higher.

During this modification the S-correction capacitor (C2520) on the LSP must also be modified to a 510nF 400V (4822 121 70281) at the same time.

7. FL1-PTV

7.1 Replacing a projection tube

In order to prevent the deflection coil from dropping down following the replacement a projection tube the deflection coil should be firmly attached to the new projection tube. To achieve this adhesive 4822 390 30066 may be used. The adhesive should be applied to half of the tube's circumference (see Fig. 1), thereby coming into contact with the projection tube, the metal clamping ring and the plastic on the deflection coil.

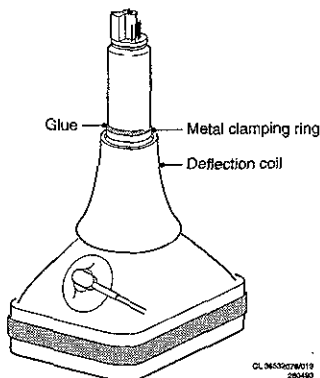


Fig. 7.1

7.2 Correction service manual FL1-PTV AA

In service manual FL1-PTV AA a part of diagram x is incorrectly illustrated. This part is shown correctly in Fig. 2.

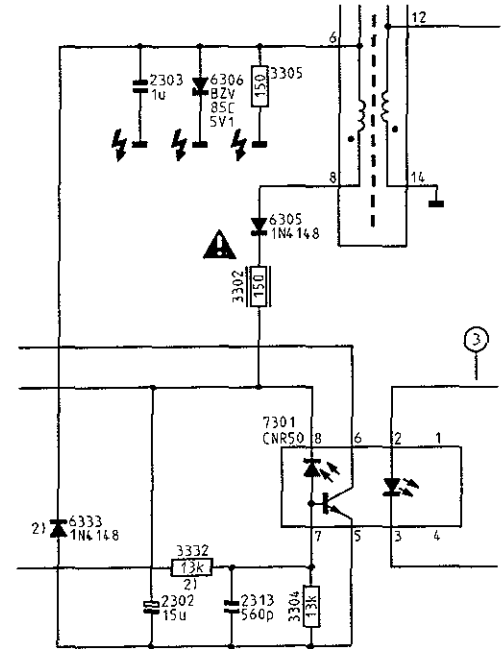


Fig. 7.2

25" and 28"

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