



LCD-Monitor

Chassis LME17DS
 LME19DS

Model 731BF
 931BF

SERVICE Manual

TFT-LCD Monitor



Fashion Feature

- Integrated UI applied
- Built-in Scaler Sync Separator
- Response Time Accelerator
- Connectivity : Analog (15p Dsub),
Dual (24p DVI-D)
- Power Consumption : 17"(34W), 19"(38W)
- DPMS : under 1 W (230Vac)

Copyright

©2006 by Samsung Electronics Co., Ltd.

All rights reserved.

This manual may not, in whole or in part, be copied, photocopied, reproduced, translated, or converted to any electronic or machine readable form without prior written permission of Samsung Electronics Co., Ltd.

LME17DS, LME19DS Service Manual

First edition February 2006.

Printed in Korea.

Trademarks

Samsung is the registered trademark of Samsung Electronics Co., Ltd.

LME17DS, LME19DS and MacMaster Cable Adapter are trademarks of Samsung Electronics Co., Ltd.

Macintosh, Power Macintosh are trademarks of Apple Computer, Inc.

All other trademarks are the property of their respective owners.

Contents

1. Precautions	1-1
1-1 Safety Precautions	1-1
1-2 Servicing Precautions	1-2
1-3 Electrostatically Sensitive Devices (ESD) Precautions	1-2
1-4 Installation Precautions	1-3
2. Product specifications	2-1
2-1 Fashion Feature	2-1
2-2 LME17DS Specifications	2-1
2-3 LME19DS Specifications	2-1
2-4 Spec Comparison	2-3
2-5 Option Specification	2-4
3. Alignments and Adjustments	3-1
3-1 Required Equipment	3-1
3-2 Automatic Color Adjustment	3-1
3-3 DDC EDID Data Input	3-1
3-4 OSD Adjustment When Replacing Panel	3-1
3-5 OSD Adjustment When Replacing Lamp Only	3-1
3-6 Service Function Spec.	3-2
3-7 How to execute DDC	3-4
3-8 How to execute MCU Code	3-5
4. Troubleshooting	4-1
4-1 No Power	4-2
4-2 No Video (ANALOG)	4-3
4-3 No Video (DIGITAL)	4-4
5. Exploded View and Parts List	5-1
5-1 LME17DS Exploded View	5-1
5-2 LME17DS Parts List	5-2
5-3 LME19DS Exploded View	5-3
5-4 LME19DS Parts List	5-4
6. Electrical Parts List	6-1
7. Block Diagram	7-1
7-1 Power Tree	7-1
7-2 Main Board Part	7-2
7-3 IP Board Part (SMPS Part)	7-3
7-4 IP Board Part (Inverter Part)	7-4

Contents

8. Wiring Diagram	8-1
9. Schematic Diagrams	9-1
10. Operating Instructions and Installation	10-1
10-1 Front	10-1
10-2 Rear	10-2
10-3 Connecting the monitor	10-3
10-4 Monitor Assembly	10-4
11. Disassembly and Reassembly	11-1
11-1 Disassembly	11-1
11-2 Reassembly	11-4
12. PCB Diagram	12-1
12-1 Main PCB	11-1
12-2 ANION OPTION (RS Model)	11-1
13. Circuit Descriptions	13-1
13-1 Overall Block Structure	13-1
13-2 Trouble Shooting	13-5
13-3 IP BOARD(Power) Schematic Diagrams	13-7
13-4 IP BOARD(Inverter) Schematic Diagrams	13-8
14. Reference Information	
14-1 Technical Terms	14-1
14-2 Pin Assignments	14-3
14-3 Timing Chart	14-4
14-4 Preset Timing Modes	14-5
14-5 Panel Description	14-6



-This Service Manual is a property of Samsung Electronics Co., Ltd.
Any unauthorized use of Manual can be punished under applicable International and/or domestic law.

Samsung Electronics Co.,Ltd.
416, Maetan-3Dong, Yeongtong-Gu, Suwon City,
Gyeonggi-Do, Korea, 443-742
Printed in Korea
P/N : BN82-00138E-00
URL : <http://itself.sec.samsung.co.kr/>