



TFT-LCD TV

Chassis GSM27TC
 GSM32TC
 GSM37TC
 GSM40TC

Model LA27S71B1
 LA32S71B1
 LA37S71B
 LA40S71B

SERVICE Manual

TFT-LCD TV



Fashion Feature

- Luxurious Slim Design
- Supreme Picture Quality
- Supreme Sound Quality
- Supreme Convenience Quality
- Convenience for Users

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.

LA27S71B1 / LA32S71B / LA37S71B / LA40S71B
Service Manual

First edition June 2006.

Printed in Korea.

Trademarks

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

LA27S71B1 / LA32S71B / LA37S71B / LA40S71B and Macmaster Cable Adapter are trademarks of Samsung Electronics Co., Ltd.

Macintosh and 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 Static Electricity Precautions	1-2
1-4 Installation Precautions	1-3
2. Product specifications	2-1
2-1 Fashion Feature	2-1
2-2 LA27S71B Specifications	2-2
2-3 LA32S71B Specifications	2-3
2-4 LA37S71B Specifications	2-4
2-5 LA40S71B Specifications	2-5
2-6 Spec Comparison	2-6
2-7 Option Specification	2-7
3. Alignments and Adjustments	3-1
3-1 Service Instruction	3-1
3-2 How to Access Service Mode	3-2
3-3 Factory Data	3-3
3-4 Service Adjustment	3-8
3-5 Software Upgrade	3-11
4. Troubleshooting	4-1
4-1 First Checklist for Troubleshooting	4-1
4-2 Checkpoints by Error Mode	4-2
5. Exploded View and Parts List	5-1
5-1 LA27S71B Exploded View	5-1
5-2 LA27S71B Parts list	5-2
5-3 LA32S71B Exploded View	5-3
5-4 LA32S71B Parts list	5-4
5-5 LA37S71B Exploded View	5-5
5-6 LA37S71B Parts list	5-6
5-7 LA40S71B Exploded View	5-7
5-8 LA40S71B Parts list	5-8
6. Electrical Parts List	6-1
6-1 LA27S71B Parts List	6-1
6-2 LA32S71B Parts List	6-19
6-3 LA37S71B Parts List	6-37
6-4 LA40S71B Parts List	6-55
7. Block Diagram	7-1

Contents

8. Wiring Diagram	8-1
8-1 LA27S71B / LA32S71B / LA37S71B / LA40S71B Wiring Diagram	8-1
8-2 Main Board Layout	8-2
8-3 PIN characteristic	8-3
8-4 Power Board Layout	8-6
9. Schematic Diagrams	9-1
9-1 Power_Sound Schematic Diagram	9-1
9-2 Schematic Diagram	9-2
9-3 Micom Schematic Diagram	9-3
9-4 SVP-PX/PX-Power/LBE-Option Schematic Diagram	9-4
9-5 Application Schematic Diagram	9-5
10. Operating Instructions and Installation	10-1
10-1 Front	10-1
10-2 Connection Panel	10-2
10-3 Remote control	10-4
10-4 Installation the Stand	10-5
10-5 Installing the Wall Mount Kit	10-5
11. Disassembly and Reassembly	11-1
11-1 Disassembly	11-1
11-2 Reassembly	11-5
12. PCB Diagram	12-1
12-1 27" Main PCB Diagram	12-1
12-2 32", 37", 40" Main PCB Diagram	12-2
12-3 27" SMPS	12-3
12-4 32" SMPS	12-4
12-5 37" SMPS	12-5
12-6 40" IP Board	12-6
13. Circuit Descriptions	13-1
13-1 Block description	13-1
13-2 Main Block	13-3
13-3 SMPS Board	13-4
14. Reference Information	14-1
14-1 Technical Terms	14-1
14-2 Pin Assignments	14-4
14-3 Timing Chart	14-7
14-4 Panel Description	14-11



- 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 : BN82-00139K-00
URL : <http://itself.sec.samsung.co.kr/>