



ASUSTeK COMPUTER INC.

ASUS B1A Notebook

SERVICE GUIDE



ASUS B1A NOTEBOOK

Service Guide

© ASUSTeK Computer Inc.
No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Phone +886-2-2894-3447 • Fax +886-2-2893-7775

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of ASUSTeK COMPUTER INC. ("ASUS").

ASUS PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ASUS, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OR DATA, INTERRUPTION OF BUSINESS AND THE LIKE), EVEN IF ASUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES ARISING FROM ANY DEFECT OR ERROR IN THIS MANUAL OR PRODUCT.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe.

- Intel and Pentium are registered trademarks of Intel Corporation.

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHED FOR INFORMATIONAL USE ONLY, AND ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUS. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS OR INACCURACIES THAT MAY APPEAR IN THIS MANUAL, INCLUDING THE PRODUCTS AND SOFTWARES DESCRIBED IN IT.

Copyright © 2001 ASUSTeK COMPUTER INC. All Rights Reserved.

Manual revision 1.1, September 19, 2001



D e s i g n e d & M a d e b y A S U S T e K

Table of Contents

CHAPTER 1: ASUS SERVICE POLICY

ASUS Service Policy Overview	1 - 2
ASUS Branch Service Repair Centers	1 - 3
Worldwide Service Channels – GSM program	1 - 5
Map of Service Locations	1 - 10
Source of Support	1 - 11

CHAPTER 2: SERVICE OVERVIEW

B1A series Overview and Components	2 - 2
Overview	2 - 2
Components	2 - 4
Service Overview	2 - 15
Precautions	2 - 15
Appropriate Tools	2 - 16

CHAPTER 3: DISASSEMBLY PROCEDURE

Removable Modules	3 - 2
Icon Module Disassembly	3 - 3
CPU Module	3 - 5
Separation of LCD & Top Module	3 - 6
Separation of Top & Bottom Module	3 - 7
Bottom Module Disassembly	3 - 9
Main Board Disassembly	3 - 10
Top Module Disassembly	3 - 13
LCD Module Disassembly	3 - 14

CHAPTER 4: ASSEMBLY PROCEDURE

LCD Module Assembly	4 – 2
Top Module Assembly	4 – 4
Main Board Module Assembly	4 – 6
Bottom Module Assembly	4 – 7
Assemble of Top & Bottom Module	4 – 9
Assemble of LCD & Top Module	4 – 11
CPU Module Assembly	4 – 12
Icon Module Assembly	4 – 13
Removable Modules	4 – 15

CHAPTER 5: UPGRADE & REPLACEMENT

HDD Upgrade	5 – 2
Memory Upgrade	5 – 3
CPU Upgrade	5 – 4
Multi-Modules Upgrade	5 – 4
MINI PCI CARD REPLACEMENT	5 – 5

CHAPTER 6: HARDWARE SPECIFICATIONS

Marketing Spec	6 –6
Chipset List	6 –11
Key Parts List	6 –16
System	6 –21
I/O Port Pin Assignment	6 –26
Power Management	6 –32
Module Specification	6 –39
Miscellaneous	6 –45

CHAPTER 7: SOFTWARE SPECIFICATIONS

Introduction	7 - 1
Hardware Overview	7 – 2
Configuration of PCI Devices	7 – 12
Functions of Embedded Controller	7 – 13
M-Mode Control Mechanism	7 – 23
Power Management	7 - 23
Callback Services for nVidia's VGA BIOS	7 – 26
Clock Generator Setting	7 – 27

Setup Menu

7 – 28

Reference

7 – 28

This page is intentionally left blank