

Numark

C2 / CM100

Service Manual

Rev. 1
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PREFACE

This document is intended to assist the service technician in the operation, maintenance and repair of the Numark device. Together with the User Reference Manual, this document provides a complete description of the functionality and serviceability of the Device. Any comments or suggestions you may have pertaining to the document are welcome and encouraged.

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WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, DO NOT EXPOSE THIS PRODUCT TO WATER OR MOISTURE.



The arrowhead symbol on a lightning flash inside a triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the enclosed product which may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point inside a triangle is intended to alert the user to the presence of important operating, maintenance and servicing instructions in the literature which accompanies the product.

REPAIR BY ANY PERSON OR ENTITY OTHER THAN AN AUTHORIZED NUMARK SERVICE CENTER WILL VOID THE NUMARK WARRANTY.

PROVISION OF THIS MANUAL DOES NOT AUTHORIZE THE RECIPIENT TO COMPETE WITH ANY NUMARK DISTRIBUTOR OR AUTHORIZED REPAIR SERVICE CENTER IN THE PROVISION OF REPAIR SERVICES OR TO BE OR MAKE REPAIRS AS AN AUTHORIZED SERVICE CENTER.

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Regarding the Power Supply Fuse



CAUTION: The product under service may employ the use of a replaceable fuse. Danger of fire or electrocution if fuse is incorrectly replaced. Replace with only the same type or equivalent type recommended by the equipment manufacturer.

Regarding the Internal Battery



CAUTION: The product under service may employ the use of a internal battery. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instruction.

Safety Instructions

Carefully read the applicable items of the operating instructions and these safety suggestions before using this product. Use extra care to follow the warnings written on the product itself and in the operating instructions. Keep the operating instructions and safety suggestions for reference in the future.

1. Power Source. The product should only be connected to a power supply which is described either in the operating instructions or in markings on the product.
2. Power Cord Protection. AC power supply cords should be placed such that no one is likely to step on the cords and such that nothing will be placed on or against them.
3. Periods of Non-use. If the product is not used for any significant period of time, the product's AC power supply cord should be unplugged from the AC outlet.
4. Foreign Objects and Liquids. Take care not to allow liquids to spill or objects to fall into any openings of the product.
5. Water or Moisture. The product should not be used near any water or in moisture.
6. Heat. Do not place the product near heat sources such as stoves, heat registers, radiators or other heat producing equipment.
7. Ventilation. When installing the product, make sure that the product has adequate ventilation. Improperly ventilating the product may cause overheating, which may damage the product.
8. Mounting. The product should only be used with a rack which the manufacturer recommends. The combination of the product and rack should be moved carefully. Quick movements, excessive force or uneven surfaces may overturn the combination which may damage the product and rack combination.
9. Cleaning. The product should only be cleaned as the manufacturer recommends.
10. Service. The user should only attempt the limited service or upkeep specifically described in the operating instructions for the user. For any other service required, the product should be taken to an authorized service center as described in the operating instructions.
11. Damage to the Product. Qualified service personnel should service the unit in certain situations including without limitation when:
 - a. Liquid has spilled or objects have fallen into the product,
 - b. The product is exposed to water or excessive moisture,
 - c. The AC power supply plug or cord is damaged,
 - d. The product shows an inappropriate change in performance or does not operate normally, or
 - e. The enclosure of the product has been damaged.

PARTS NO.	DESCRIPTION	C2
C-CM-033-00T	C-C 33P TAPING	4
C-CM-047-00T	C-C 47P TAPING	9
C-CM-068-00T	C-C 68P TAPING	8
C-CM-110-00T	C-C 100P TAPING	12
C-CM-122-00T	C-C 220P TAPING	12
C-CM-133-00T	C-C 330P TAPING	2
C-CM-147-00T	C-C 470P TAPING	2
C-CM-168-00T	C-C 680P TAPING	6
C-CM-210-00T	C-C 102P TAPING	2
C-CM-247-02	C-C 472/400V	1
C-CM-322-00T	C-C 223Z TAPING	2
C-CM-410-00T	C-C 104Z TAPING	3
C-EC-010-30T	C-E 10U25V TAPING	11
C-EC-010-31T	C-E 10U25V MINI TAPING	24
C-EC-022-30T	C-E 22U25V TAPING	6
C-EC-022-31T	C-E 22U25V MINI TAPING	4
C-EC-047-20T	C-E 47U16V TAPING	17
C-EC-047-21T	C-E 47U16V MINI TAPING	15
C-EC-110-21T	C-E 100U16V MINI TAPING	14
C-EC-122-30	C-E 220U25V	2
C-EC-210-30	C-E 1000U25V	2
C-EC-Z10-51T	C-E 1U50V MINI TAPING	4
C-EC-Z47-50T	C-E 4.7U50V TAPING	8
C-EC-Z47-51T	C-E 4.7U50V MINI TAPING	8
C-PL-210-00T	C-P 102J TAPING	2
C-PL-227-00T	C-P 272J TAPING	2
C-PL-239-00T	C-P 392J TAPING	1
C-PL-247-00T	C-P 472J TAPING	2
C-PL-282-00T	C-P 822J TAPING	6
C-PL-310-00T	C-P 103J TAPING	2
C-PL-315-00T	C-P 153J TAPING	1
C-PL-327-00T	C-P 273J TAPING	6
C-PL-333-00T	C-P 333J TAPING	2
C-PL-339-00T	C-P 393J TAPING	2
C-PL-347-00T	C-P 473J TAPING	6
C-XT-368-02	CASE MINI 683J	2
C-XT-415-00	CASE MINI 154J	2
C-XT-482-00T	C-MONOL 824M	4

E-DO-003-00T	DIODE IN4004	5
E-DO-004-02	DIODE IN4531	17
E-FU-001-01	FUSE 0.5A250V UL CSA	1
E-IC-002-01	IC NJM7805	1
E-IC-006-01	IC NJM7815	1
E-IC-009-01	IC NJM7915	1
E-IC-013-01	IC AN6554	4
E-IC-059-01	IC NJM4558L	16
E-IC-064-01	IC NJM4556L	1
E-IC-087-00	IC 78L05	1
E-IC-102-00	IC LB1482M	1
E-IC-106-00	IC 74HCT14	2
E-JK-021-00	RCA JACK 4P CPS-044	6
E-JK-023-00	H/P JACK CPJ-065	1
E-JK-027-02	AC INPUT SOCKET SC-8F	1
E-JK-038-00	CANNON JACK 087-35-180	2
E-JK-046-00	P/H JACK 0611	1
E-JK-051-00	NEUTRIK NCJ5FI-V-0	1
E-JK-053-00	H/P JACK CPJ-3055G	2
E-LD-041-00	LED 3* BL-B5141J	7
E-LD-043-00	LED 3* BL-B3141J	27
E-LD-050-00	LED SL1-0748CP	2
E-LD-051-00	LED SLP-0749CO	2
E-PC-164-00	FADER VR PCB	1
E-PC-170-01	CM100 MAIN PCB	1
E-PC-171-00	CM100 SUB PCB	1
E-PT-038-00	P.T XDM-242	1
E-SW-010-01	SW SDDLE1007	1
E-SW-056-00	SW ROTARY L430Y022H01	2
E-SW-059-00	LEVER SW LBC23M-095	1
E-SW-064-00	SW HF-308 3PIN	1
E-SW-066-00	LEVER SW LBC22M-085	5
E-SW-077-00	SLIDE SW SS-22F39-G5	3
E-SW-101-00	SW SS90040-0402-9T-NN	1
E-SW-104-00	SW SPEA12MC01	6
E-SW-108-00	SW SPEA12MA01	2
E-SW-109-00	SW SPEA12MC03	2
E-TR-008-00	TR 2SA1015	1
E-TR-034-00	TR 2SC2878	4

E-TR-038-00	TR DTC114	2
E-VR-062-10	VR RA3030-20-20A1-B15	1
E-VR-116-00	VR RK16K1140133 50KB C.C.	2
E-VR-117-00	VR RK16K12D0019 50KAX2	2
E-VR-118-00	VR RK16K1240042 10KBX2	5
E-VR-120-00	VR RK16K124A038 50KMN	1
E-VR-124-00	VR RK16K12D0038 50KBX2	1
E-VR-125-00	VR RK16K1140038 50KA	1
E-VR-128-10	VR RA3022-20-20DA-B24-C 20KBX2	5
E-VR-164-00	VR RS45Y12A2019 50KAX2	5
E-VR-168-00	VR RF45T12G3101 100KBX2	1
E-WI-019-00	CORD AL201*AL501	0.5
E-WI-021-00	CORD AL300*AL501	0.5
F-AL-059-13	FADER PANEL 2008	1
F-AL-113-04	FRONT PANEL C2	1
F-BK-032-00	EARTH BRACKET DM1190	1
F-CH-112-00	TOP COVER DM1090	1
F-CH-178-02	RAER PANEL C2	1
F-CH-179-00	MAIN CHASSIS CM100	1
K-CT-143-03	INNER CARTON C2	1
K-CT-144-03	OUTER CARTON C2	0.25
K-MU-105-02	INSTR MANUAL C2	1
K-MU-128-00	SAFETY MANUAL, NUMARK	1
K-PL-025-00	POLY LON DM1090	2
P-CN-002-01	CONNECTOR M2411-2 180-RED	1
P-CN-004-01	CONNECTOR 3P XH	3
P-CN-005-00	CONNECTOR M2411-4P	1
P-CN-007-01	CONNECTOR 5P XH	1
P-CN-025-01	CONNECTOR M2411 2P-90	1
P-CN-026-01	CONNECTOR M2411-5P 90	1
P-CN-027-01	CONNECTOR M2411-6P 90	1
P-CN-030-01	CONNECTOR M2411-3P RED	2
P-CN-031-01	CONNECTOR M2411-2P	3
P-CN-032-01	CONNECTOR M2411-3P	3
P-CN-035-01	CONNECTOR M2411-3P BULE	1
P-CN-039-01	CONNECTOR M2411-3P	1
P-CN-042-01	CONNECTOR M2411-4P	3
P-CN-043-01	CONNECTOR M2411-6P	1
P-CN-058-00	BNC CONNECTOR 94V-204C1	1

P-FR-024-00	SLIDE VR HOLDER 1080	5
P-FR-035-00	EQ HOLDER 5P XDM-242	1
P-FR-040-00	LED HOLDER 12孔 DM1000X	2
P-FR-045-00	FADER HOLDER CM100	1
P-KB-004-00	SLIDE VR KNOB SV-N001	6
P-KB-004-05	FADER KNOB SV-N001 NUMARK	1
P-KB-064-00	KNOB 7*7 PS-W006	1
P-KB-065-01	EQ KNOB DM1175	5
P-KB-066-03	LV KNOB LV-S002	6
P-KB-067-00	KNOB 15* K003 DM1080	2
P-KB-067-03	KNOB 15* K003	12
P-KB-079-00	KNOB 7* ROUND	10
P-RB-005-00	FOOT GL-4	2
P-RB-011-00	FOOT 12*H36	2
P-XT-001-00	CABLE TIES LCT-98	7
P-XT-024-00	EVA 30*10*4	2
P-XT-056-00	DUST CLOTH 20*9*0.5	1
P-XT-060-00	LED HOLDER LE48216	10
P-XT-064-01	DUST CLOTH 76*20*0.25T	1
P-XT-067-00	ORNAMENT P.V.C 1.0T	1
P-XT-071-00	SPACER L550D098H01	1
P-XT-072-00	DUST CLOTH 30*5*1085	6
P-XT-086-00	DUST CLOTH 35*35	1
P-XT-095-00	FIBER 42*42	1
P-XT-096-00	DUST CLOTH EQ 5P 69*50	1
P-XT-120-01	TUBE 30*35MM	1
P-XT-121-01	TUBE 6* 15MM	6
R-CB-010-10T	R-C 1/16W 10J	2
R-CB-033-10T	R-C 1/16W 33J	8
R-CB-039-10T	R-C 1/16W 39J	6
R-CB-110-10T	R-C 1/16W 100J	26
R-CB-110-30	R-C 1/2W 100J	1
R-CB-118-10T	R-C 1/16W 180J	6
R-CB-122-10T	R-C 1/16W 220J	23
R-CB-139-10T	R-C 1/16W 390J	4
R-CB-147-10T	R-C 1/16W 470J	8
R-CB-182-10T	R-C 1/16W 820J	4
R-CB-191-10T	R-C 1/16W 910J	4
R-CB-210-10T	R-C 1/16W 1K	8

R-CB-212-10T	R-C 1/16W 1.2K	8
R-CB-218-10T	R-C 1/16W 1.8K	5
R-CB-222-10T	R-C 1/16W 2.2K	26
R-CB-227-10T	R-C 1/16W 2.7K	4
R-CB-233-10T	R-C 1/16W 3.3K	16
R-CB-239-10T	R-C 1/16W 3.9K	5
R-CB-247-10T	R-C 1/16W 4.7K	10
R-CB-256-10T	R-C 1/16W 5.6K	4
R-CB-282-10T	R-C 1/16W 8.2K	6
R-CB-310-10T	R-C 1/16W 10K	16
R-CB-315-10T	R-C 1/16W 15K	24
R-CB-318-10T	R-C 1/16W 18K	8
R-CB-322-10T	R-C 1/16W 22K	14
R-CB-327-10T	R-C 1/16W 27K	2
R-CB-333-10T	R-C 1/16W 33K	2
R-CB-339-10T	R-C 1/16W 39K	2
R-CB-347-10T	R-C 1/16W 47K	17
R-CB-356-10T	R-C 1/16W 56K	4
R-CB-368-10T	R-C 1/16W 68K	1
R-CB-375-10T	R-C 1/16W 75K	9
R-CB-410-10T	R-C 1/16W 100K	35
R-CB-412-10T	R-C 1/16W 120K	5
R-CB-447-10T	R-C 1/16W 470K	1
R-CB-456-10T	R-C 1/16W 560K	1
R-CB-510-10T	R-C 1/16W 1M	4
R-MR-033-40	R-C 1W 33J	1
W-BC-122-00	LEAD 60MM 3P 2877AWG26	1
W-DB-222-00	LEAD 80MM 2P 5051 2877AWG26	1
W-EA-132-00	LEAD 90MM UL1007AWG24	1
W-ED-222-00	LEAD 90MM 4P 5051 2877AWG26	3
W-FB-122-00	LEAD 100MM 2P 2877AWG26	1
W-FC-122-00	LEAD 100MM 3P UL2877AWG26	1
W-FE-222-00	LEAD 100MM 5P 5051 2877AWG26	1
W-GB-122-00	LEAD 110MM 2P 2877AWG26	1
W-HC-522-00	LEAD 120MM 3P 2877AWG26	1
W-IB-122-00	LEAD 130MM 2P UL2877AWG26	1
W-IC-222-00	LEAD 130MM 5051 UL2877AWG26	2
W-IC-561-00	LEAD 130MM 3P P241852	1
W-IC-581-00	LEAD 130MM 3P P241852	1

W-IC-922-00	LEAD 130MM 3P 5051 紅色	1
W-JP-006-00	JP 6MM	50
W-JP-010-00	JP 10MM	45
W-JP-015-00	JP 15MM	15
W-JP-020-00	JP 20MM	2
W-LF-122-00	LEAD 160MM 6P 2877AWG26	3
W-MB-222-00	LEAD 180MM 2P 5051 UL2877AWG26	1
W-MB-922-00	LEAD 180MM 2P 5051 RED	1
W-MC-122-00	LEAD 180MM 3P 2877AWG26	1
W-MF-222-00	LEAD 180MM 6P 5051 2877AWG26	1
W-NC-222-00	LEAD 200MM 3P 5051 2877AWG26	2
W-NE-122-00	LEAD 200MM 5P UL2877AWG26	1
W-OA-132-00	LEAD 220MM 1007AWG24	1
W-OB-222-00	LEAD 220MM 2P 5051 2877AWG26	1
W-OD-222-00	LEAD 220MM 4P 5051 UL2877AWG26	1
W-PF-222-00	LEAD 240MM 6P 5051 UL2877AWG26	1
W-RC-822-00	LEAD 280MM 3P 5051 BLUE	1
W-SB-222-00	LEAD 300MM 2P 5051 2877AWG26	1
W-ZZ-003-00	LEAD 130MM 1617AWG22 BLUE	1
W-ZZ-004-00	LEAD 130MM 1617AWG22 BRN	1
W-ZZ-110-00	LEAD 200MM 3P 2877AWG26	1







