

FM-100C CANADA

December, 1999

IM No. 597-1002-001

IMPORTANT INFORMATION

EQUIPMENT LOST OR DAMAGED IN TRANSIT.

When delivering the equipment to you, the truck driver or carrier's agent will present a receipt for your signature. Do not sign it until you have: 1) inspected the containers for visible signs of damage and 2) counted the containers and compared with the amount shown on the shipping papers. If a shortage or evidence of damage is noted, insist that notation to that effect be made on the shipping papers before you sign them.

Further, after receiving the equipment, unpack it and inspect thoroughly for concealed damage. If concealed damage is discovered, immediately notify the carrier, confirming the notification in writing, and secure an inspection report. This item should be unpacked and inspected for damage WITHIN 15 DAYS after receipt. Claims for loss or damage will not be honored without proper notification of inspection by the carrier.

RF PRODUCT TECHNICAL ASSISTANCE – REPAIR SERVICE – REPLACEMENT PARTS.

Technical assistance is available from Broadcast Electronics by letter, prepaid telephone, fax, or E-mail. Equipment requiring repair or overhaul should be sent by common carrier, prepaid, insured, and well protected. If proper shipping materials are not available, contact the Customer Service Department for a shipping container. Do not use the mail equipment. We can assume no liability for inbound damage, and necessary repairs become the obligation of the shipper. Prior arrangement is necessary. Contact the Customer Service Department for a Return Authorization.

Emergency and warranty replacement parts may be ordered from the following address. Be sure to include the equipment model number, serial number, part description, and part number. Non-emergency replacement parts may be ordered directly from the Broadcast Electronics stock room by fax at the number shown below.

FACILITY CONTACTS –

Broadcast Electronics, Inc. – Quincy Facility
4100 N. 24th St. P.O. BOX 3606
Quincy, Illinois 62305
Telephone: (217) 224-9600
Fax: (217) 224-9607
E-Mail: General – bdcast@bdcast.com
Web Site: www.bdcast.com

RF PRODUCT TECHNICAL ASSISTANCE – REPAIR – EMERGENCY/WARRANTY REPLACEMENT PARTS –

Telephone: (217) 224-9600
E-Mail: rfservice@bdcast.com
Fax: (217) 224-9607

NON-EMERGENCY REPLACEMENT PARTS –

Fax: (217) 224-9609

RETURN, REPAIR, AND EXCHANGES.

Do not return any merchandise without our written approval and Return Authorization. We will provide special shipping instructions and a code number that will assure proper handling and prompt issuance of credit. Please furnish complete details as to circumstances and reasons when requesting return of merchandise. All returned merchandise must be sent freight prepaid and properly insured by the customer.

WARRANTY ADJUSTMENT.

Broadcast Electronics, Inc. warranty is included in the Terms and Conditions of Sale. In the event of a warranty claim, replacement or repair parts will be supplied F.O.B. factory. At the discretion of Broadcast Electronics, the customer may be required to return the defective part or equipment to Broadcast Electronics, Inc. F.O.B. Quincy, Illinois. Warranty replacements of defective merchandise will be billed to your account. This billing will be cleared by a credit issued upon return of the defective item.

PROPRIETARY NOTICE.

This document contains proprietary data of Broadcast Electronics, Inc. No disclosure, reproduction, or use of any part thereof may be made except by prior written permission.

MODIFICATIONS.

Broadcast Electronics, Inc. reserves the right to modify the design and specifications of the equipment in this manual without notice. Any modifications shall not adversely affect performance of the equipment so modified.

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FM-100C CANADA

1-1. **INTRODUCTION.**

1-2. This instruction manual presents information for the FM-100C Canada version. The Canada version consists of a standard FM-100C with the following additions: 1) a rear-panel on/off switch, 2) a front-panel RF sample receptacle, and 3) a fan mute circuit. Standard installation, operation, and maintenance information for an FM-100C exciter is presented in instruction manual 597-1002. Refer to manual and 597-1002 to install and operate the exciter.

1-3. **REAR-PANEL AC ON/OFF SWITCH.**

1-4. The FM-100C is equipped with a rear-panel ac on/off switch. Operate the switch to ON to enable the FM-100C. Operate the switch to OFF to disable the FM-100C.

1-5. **FRONT-PANEL RF SAMPLE RECEPTACLE.**

1-6. The FM-100C is equipped with a front-panel RF sample receptacle. The receptacle provides a -20 dBm sample in a 50 Ohm load at 10 watts for monitoring operations.

1-7. **FAN MUTE.**

1-8. The FM-100C is equipped with a solid-state relay to disable the fan when the transmitter RF output is muted.

1-9. **PARTS LIST.**

1-10. The following text presents the parts contained in the FM-100C modifications.

TABLE 1. PARTS LIST - 909-0101-306

REF DES.	DESCRIPTION	PART NO.	QTY.
----	Relay, Solid-State	270-0061	1
----	Switch, Toggle, SPST, 20 A @ 110V ac or 10A @ 220V ac	348-0115	1
----	Connector, BNC, Crimp	418-0034	2
----	Connector, BNC, Bulkhead	417-0017	1
----	Resistor, 1 K Ohm $\pm 5\%$, 1/2W	110-1043	1
----	Connector, Housing, 6-Pin	417-0601	1
----	Connector, BNC, PCB Mount	417-0259	1
----	Contact, Crimp Type	417-8766	2
----	Keying Plug, MOD IV 87077 Amp	417-0224	1
----	FM-100C Transmitter, 117V AC 50/60 Hz Operation	909-0101-204	1

1-11. **DRAWINGS.**

1-12. The overall schematic and the power supply/control circuit board schematic present the electrical changes associated with the FM-100C modifications. Refer to SECTION VII, DRAWINGS to review overall FM-100C schematic diagram SD909-0101-204/-304/-306. Refer to SECTION V, DRAWINGS in the power supply/control circuit board section to review power supply/control circuit board schematic diagram SD919-0107-001.