

TECHNICAL MANUAL

DOC33-0003

SBM-1000 – 1000 Watt Digital Transmitter System

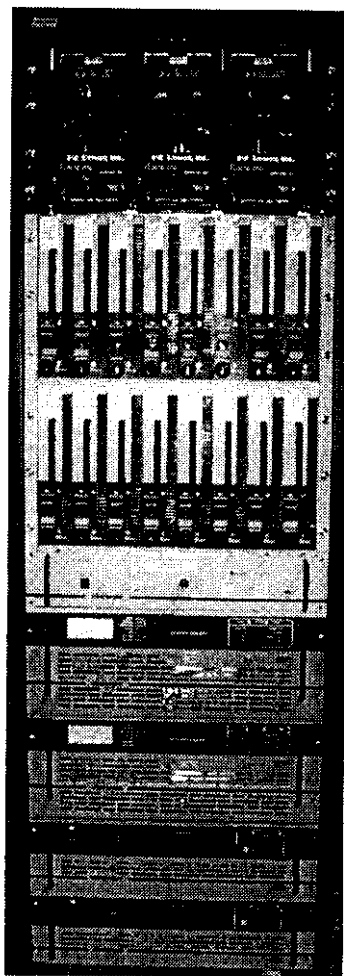


FIGURE 10-0008-1

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Checked by: Alan Bragalone
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COMWAVE TWO YEAR LIMITED WARRANTY

Comwave warrants each product of its manufacture to be free from any defect in material and workmanship for a period of two years after delivery to, and return by the original purchaser. No returns, however, will be accepted unless accompanied by a written factory return authorization.

The limit of liability under this warranty shall be to repair or replace any product, or part thereof, which proves to be defective after inspection by Comwave with the exception of tubes, semiconductor devices, lamps, fuses or equipment (i.e. modulators) manufactured by others, which are subject to only such loss adjustment as Comwave may obtain for the suppliers thereof.

This warranty shall not apply to any Comwave product which has been modified, physically or electrically damaged, or to modules which seals have been broken, or any product which has been subjected to conditions exceeding the applicable specifications or ratings or improper service techniques.

Comwave will not be liable for any direct or consequential injury, loss or damage incurred through the use, or the inability to use, any Comwave product.

Comwave reserves the right to make design changes to any Comwave product without incurring any obligation to make the same changes to previously purchased units.

This warranty is the full extent of the obligation and liability assumed by Comwave with respect to any and all Comwave products. Comwave neither makes, nor authorizes any person to make, any other guarantee or warranty concerning Comwave products.

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TABLE OF CONTENTS
For the SBM-1000 Transmitter

TITLE	DOCUMENT #
SBM-1000 Cover Sheet	DOC10-0008
SBM-1000 system.....	Figure 10-0008-1
Warranty	DOC12-0001
 SECTION 1	
Section 1 Introduction.....	DOC11-0006
SBM-1000 Top Level Description.....	DOC13-0028
Rack Assembly	DOC22-0011
FCC IDD	DOC22-0014
Block Diagram of Rack – Single Transmitter.....	DOC15-0009
SBM-1000 Detailed Block Diagram, Single Output	DOC15-0023
SBM-1000 Detailed Block Diagram, Dual Output.....	DOC15-0019
Specifications for the SBM-1000.....	DOC19-0019
 SECTION 2	
Section 2 Introduction.....	DOC11-0007
Installation.....	DOC17-0007
Unpacking	
Physical Installation	
Rear door	
AC power connections to the exhaust fans	
Driver chassis	
Power amplifier segment	
Environmental and safety considerations	
AC Loading in an HPB/SBM System.....	DOC17-0012
3-Phase DELTA Connected System.....	Figure 17-0012-1
Outlet Strip Configuration	Figure 17-0012-2
MTS-3 Power Shelf	Figure 17-0012-3
AC System	Figure 17-0012-4
HPB/SBM Three Phase AC Loading DELTA Configuration	DOC24-0006
Cabling.....	DOC18-0017
Driver	
Reference Distribution	

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IF Distribution	
Comview Interconnections	
VHF/UHF Block Upconverter (driver) Cabling Diagram	DOC23-0045
SBM Series System Interconnection	DOC15-0026
Turn-On Procedure	DOC26-0004
Initial Operation Procedure	
Normal Operation Procedure	
SECTION 3	
Section 3 Introduction.....	DOC11-0008
Troubleshooting	DOC18-0018
Driver	
Analog metering	
Power amplifier segment	
Troubleshooting Worksheet.....	DOC18-0022
Power Amplifier Segment Node Addresses	DOC22-0019
Equipment Fusing and Protection.....	DOC18-0015
Table of Fuse Locations and Values	Figure 18-0015-1
Circuit Breaker.....	Figure 18-0015-2
AC Power Interconnections	DOC13-0029
AC Power Interconnections Block Diagram.....	Figure 13-0029-1
AC Interconnect HPB/SBM Series 1 Phase & 3 Phase AC power.....	66-310-01
DC Power Connections.....	DOC13-0030
DC Power Connections Block Diagram	Figure 13-0030-1
Rack Power Supply (AC to DC front end converter)	
for High Power Series.....	Figure 13-0030-2
DC to DC Converter	Figure 13-0030-3
Motherboard located in Subrack of the High Power Series.....	Figure 13-0030-4
Interconnect, DC SD/SDA series (high power)	66-304-01
RF Power Interconnections.....	DOC13-0054
RF Signal Path for Redundant System.....	Figure 13-0054-1
Maintenance.....	DOC18-0005
Inspections	
Cleaning	
Power Amplifier Segment Picture	Figure 18-0005-1
Monthly Maintenance Record.....	DOC18-0016
Metering Calibration.....	DOC16-0005
Digital Metering	
Analog Metering	
Power Specification Chart	Figure 16-0005-1
Reflected Output Power Metering	

Rear Panel Switch and Control Drawer	Figure 16-0005-2
+11V Switching Power Supply Metering	
Potentiometer Locations	Figure 16-0005-3
SBM Series Calibrations	DOC23-0042
Power Calibration Test Setup	DOC22-0018
SECTION 4	
Section 4 Introduction	DOC11-0009
Rack theory of operation	DOC14-0005
Photo of Rack	Figure 14-0005-1
SBM/HPB rear view	DOC23-0046
Sub-rack theory of operation	DOC14-0006
Photo of Subrack	Figure 14-0006-1
Motherboard to System Interface	
Motherboard (35-080) Photo	Figure 14-0006-2
Module to Motherboard Interface	
VHF to Microwave Drawer Theory of Operation (20-346-2gxx-02)	DOC14-0007
Front Panel Features	
Rear Panel Features	
Driver Block Diagram	66-321-01
Front Panel	DOC23-0038
Rear Panel	DOC23-0039
Internal Interconnect VHF to uW, Comview Ready	66-323-01
Specifications – SBM Series Driver Specs	DOC19-0027
Local Oscillator Multiplier (08-013)	DOC13-0060
Photo	Figure 13-0060-1
Specifications	DOC19-0030
VCXO, PLL (09-060)	DOC13-0059
Photo	Figure 13-0059-1
Specifications	DOC19-0031
Bandpass filter (05-025)	DOC13-0063
Photo	Figure 13-0051-1
Bandpass filter specifications	DOC19-0022
Amplifier with ALC (04-305 & 314-02)	DOC13-0057
Photo	Figure 13-0057-1
Specifications, RF and DC	DOC19-0028
VHF/UHF ALC Module (04-326)	DOC13-0066
Photo	Figure 13-0066-1
Specifications	DOC19-0032
Mixer – OEM	DOC13-0065
Photo	Figure 13-0065-2
Specifications	Figure 13-0065-1
Bandpass filter (OEM)	DOC13-0050

Photo	Figure 13-0050-1
Bandpass filter specifications	DOC19-0021
Intermediate power amplifier (04-306 & 313-02)	DOC13-0052
Photo	Figure 13-0052-1
Intermediate power amp specifications (RF and DC specs)	DOC19-0023
Envelope detector (12-032)	DOC13-0058
Envelope detector picture	Figure 13-0058-1
Broadband RF Precorrector (04-299)	DOC13-0062
Photo, Top View	Figure 13-0062-1
Photo, Side View	Figure 13-0062-2
Specifications	DOC19-0026
Intermediate power amplifier (04-308-02)	DOC13-0053
Photo	Figure 13-0053-1
Intermediate power amp specifications (RF and DC specs)	DOC19-0024
Motherboard (35-096)	DOC13-0055
Microcontroller Interface board (34-006)	DOC13-0056
Firmware Flowchart VHF/UHF to uW Upconverter	DOC21-0003
Chassis Monitoring and Control Functions	DOC13-0071
List and Description of Parameters Monitored in VHF/UHF to uW Upconverter Chassis	DOC24-0010
Signal distribution board (33-312)	DOC13-0064
Photo	Figure 13-0064-1
Input/Output Signals	Figure 13-0064-2
RS-485 Communications Board (33-284 & 33-304)	DOC13-0009
33-284 Photos	Figure 13-0009-1
33-304 Photos	Figure 13-0009-2
Comview Status Monitoring Interconnections	DOC30-0005
Power Amplifier Segment Theory of Operation (04-294-2gxx-02)	DOC14-0008
Power Amplifier Segment Photo	Figure 14-0008-1
Power Amplifier Segment Specifications	DOC19-0014
Power Amplifier Segment Block Diagram	DOC15-0013
Internal Interconnect, Power Amplifier Segment	66-306-01
Power Amplifier Board (40-220)	DOC13-0041
Power Amplifier Board Specifications	DOC19-0015
Power Amplifier Board Block Diagram	DOC15-0014
300 Watt Power Supply Board (32-002)	DOC13-0043
300 Watt Power Supply Board Specifications	DOC19-0017
Power Supply Block Diagram	DOC15-0016
Control Board (34-010)	DOC13-0042
Control Board Specifications	DOC19-0016
Control Board Block Diagram	DOC15-0015
Firmware Flowchart	DOC21-0005
Amplifier Segment State Flow Chart	DOC21-0006
RS-232 Communications Board (33-352)	DOC13-0010
Photo	Figure 13-0010-1

SCHEMATICS

Sub-Rack:

Motherboard, Back Panel for HPSC tx	35-080-01
Comview/ CPU Controller Interface	33-430-01

Driver:

VCXO, PLL (09-060)	09-053-01
Lock indicator/control board.....	33-301-01
Envelope Detector (12-032).....	33-461-01
Motherboard (35-096).....	35-096-01
RS-485 Comm. & ctrlr I/F	33-304-01
Signal Distribution Board	33-312-01
Display Board SBSA-20C	33-314-01

Power Amplifier Segment:

Front Panel Display with Diagnostics Port.....	33-352-01
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SECTION 5

Section 5 Introduction.....	DOC11-0010
Customer service.....	DOC20-0001
Contact information	
Equipment returns	
Packaging for return (driver)	DOC20-0002
Packaging for return (power amp segment).....	DOC20-0003

SECTION 5

This section will give you the information you need to contact Comwave customer service and return equipment for repair.

<i>Created by: Kimberly Simeone</i> 9/17/98	<i>Checked by: Donald Wike</i> 9/18/98	<i>Released by: Paulo Quêc</i> 10/19/98
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CUSTOMER SERVICE

Comwave's customer service personnel are available 24 hours a day to assist with any questions or complications that may arise. After regular business hours, 8-5 Monday through Friday, an answering service will answer calls and forward messages to the appropriate person.

Comwave Crestwood Industrial Park 395 Oakhill Road Mountaintop, PA 18707	
1-800-266-9283	USA & Canada
1-570-474-6751	International & USA
(Please note, as of 12/98, our area code changed from 717 to 570)	
1-570-474-5469	FAX
(Please note, as of 12/98, our area code changed from 717 to 570)	

EQUIPMENT RETURNS

In the event the equipment requires return for factory service, please follow the guidelines listed. Comwave cannot be held responsible for damaged equipment received due to improper packing. Contact Comwave with any questions or concerns regarding returning or packaging of equipment.

1. **Contact Comwave:** Call Comwave to report the problem and to obtain a "Return Authorization" number (RA). This enables Comwave to accurately track and identify returned equipment for prompt and efficient service. If you do not obtain an RA number prior to sending equipment back Comwave cannot be held responsible for delays in receiving the equipment. These delays will inevitably cause time loss in repairing and returning your product to you.
2. **Obtain packaging materials:** Use original boxes and packing materials when returning any equipment. This will safeguard against most in-transit damages. If original boxes and packing materials are not available, contact Comwave to obtain replacement materials prior to shipping. Replacement materials are provided at a nominal cost.
3. **Pack equipment:** Use original packing materials and directions provided. Most equipment is packed in a box within another box; this varies with each product. Double boxing provides maximum protection.

Caution: Do not pack equipment using "PEANUTS." Equipment packed using "PEANUTS" as filler does NOT provide sufficient protection during shipping. Rough handling by the carrier may cause permanent damage to the equipment being returned. COMWAVE cannot be held responsible for damaged equipment received due to improper packing.

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PACKAGING FOR RETURN

1. Start with an empty box, figure 20-0002-1, from Comwave, if you don't have one please inform customer service when you contact them for a return authorization (RA) number, which you **MUST** do prior to returning ANY equipment. A box consists of 4 parts, one cardboard box, one cardboard tube, and two polyethylene endcaps, see figure 20-0002-2. If you need to assemble a flattened box, use 2" clear box tape over the bottom seam, using three layers, to assure strength. Then put 4 pieces of fiberglass strapping tape over the edges.
2. Place the cardboard tube in the box as shown in figure 20-0002-3.
3. Place the polyethylene endcaps against the sides of the equipment as shown in figure 20-0002-4. **NOTE the front panel fits snugly into a slotted opening in the endcap.*
4. Put the transmitter into the box with the cardboard tube already in it as shown in figure 20-0002-5.
5. Close the box and seal the top seam with 2" clear box tape, using three layers to assure strength. Then put 4 pieces of fiberglass strapping tape over the edges. Clearly mark the RA number on the outside of the box before shipping.

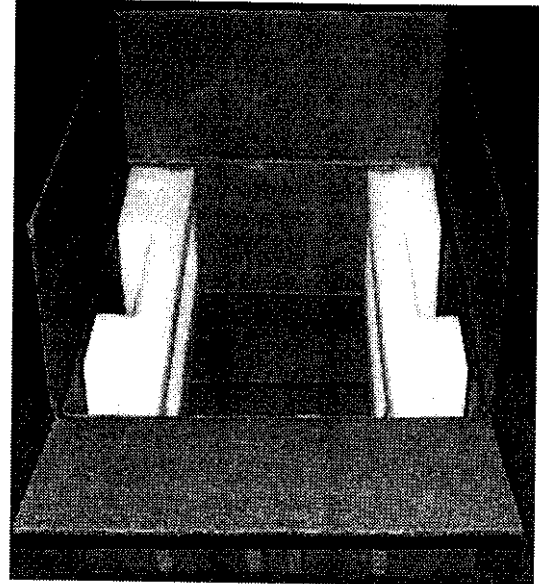


FIGURE 20-0002-1

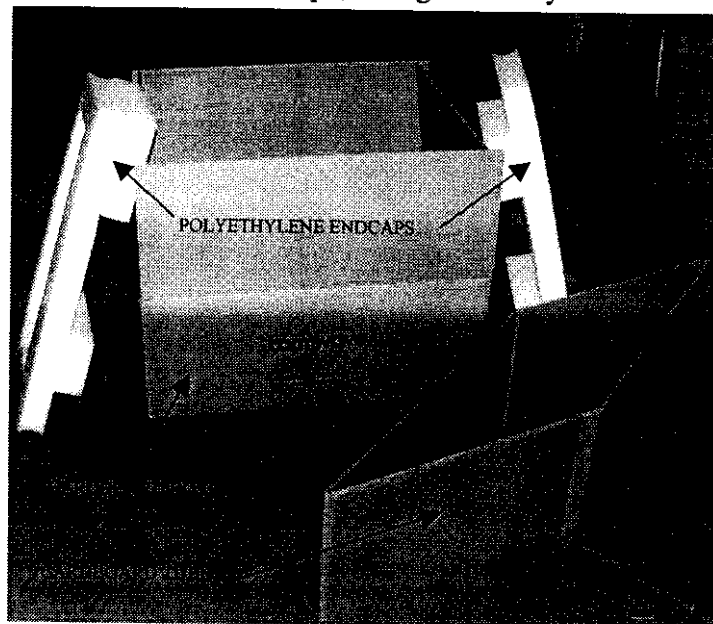


FIGURE 20-0002-2

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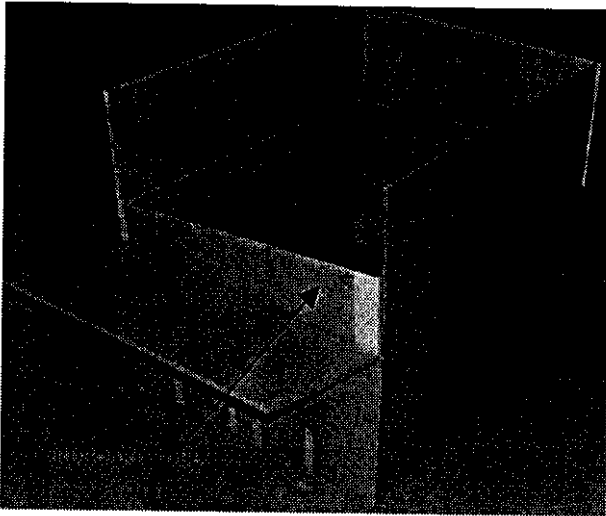


FIGURE 20-0002-3

SLOTTED OPENING

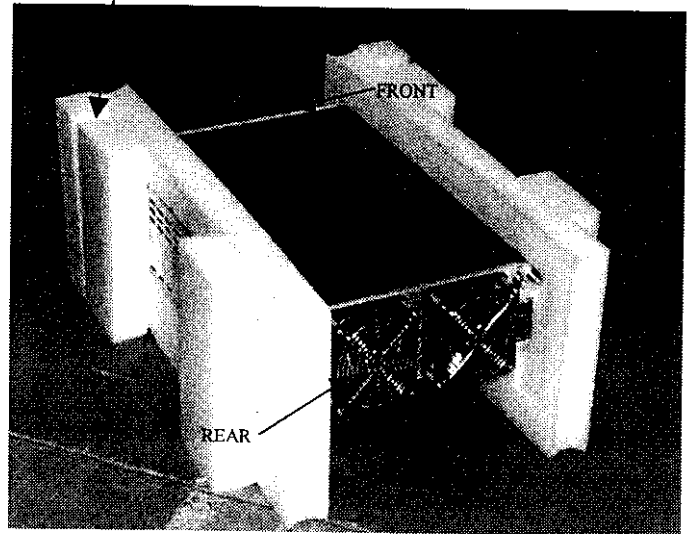


FIGURE 20-0002-4

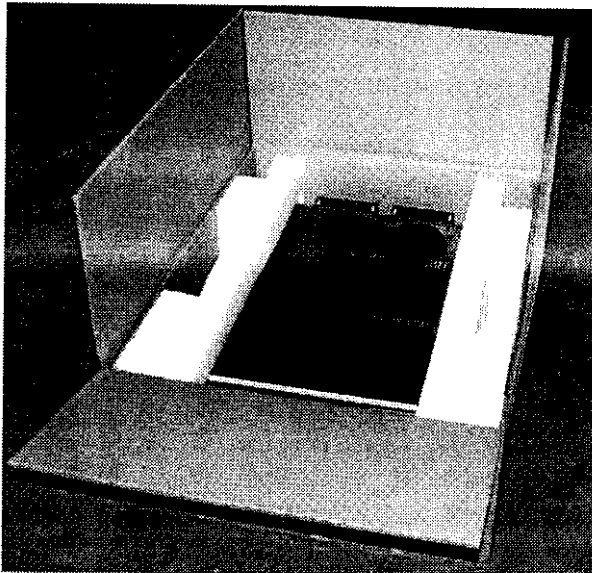


FIGURE 20-0002-5

RETURN PACKAGING OF THE POWER AMPLIFIER SEGMENT

1. Start with an empty power amplifier segment box, shown in figure 20-0003-1. If you don't have one please inform Comwave customer service when you contact them for a return authorization (RA) number, which you **MUST** do prior to returning ANY equipment.
2. Place the power amplifier segment into the box, as shown in figure 20-0003-2. The heatsink should always face up and the connectors on the rear of the power amp segment rest against the soft gray foam for protection.

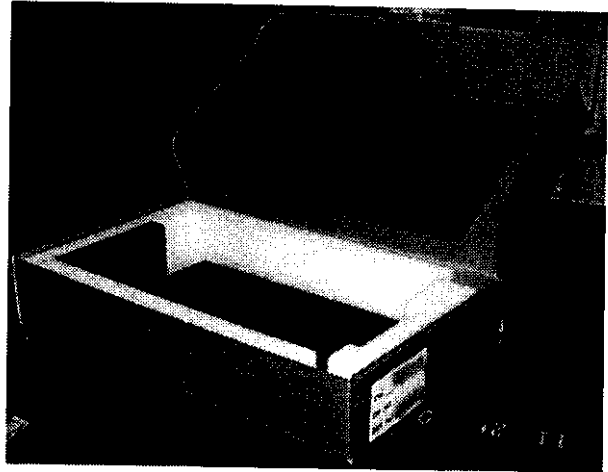


FIGURE 20-0003-1

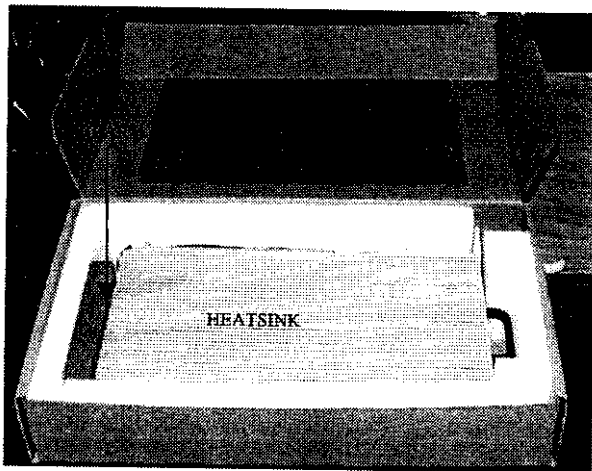


FIGURE 20-0003-2

3. Fold the edges of the inner box in and close.

4. Place the inner box into the 4-pack master (outer box), being sure to include three empty power amplifier boxes for a secure fit, as shown in figure 20-0003-3. The power amplifier segments are generally packed 4 per master box and shipped.

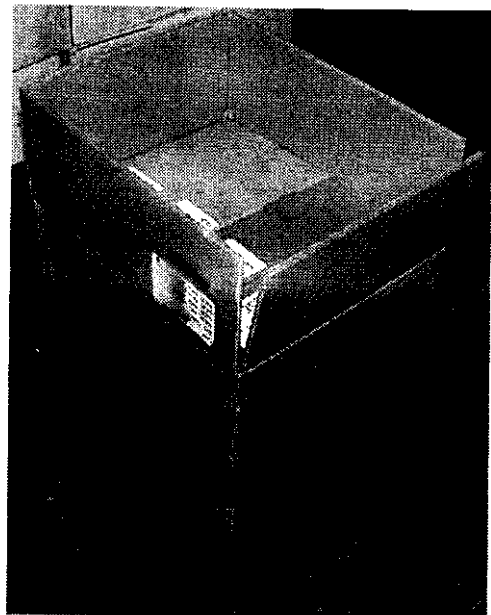


FIGURE 20-0003-3

- When returning segment(s) please pack them the same way, ALL boxes will be returned to you. If you need to assemble a master box, use 2" clear box tape over the bottom seam, using three layers to assure strength. Then put 4 pieces of fiberglass strapping tape over the edges.
5. Close the 4-pack master box and seal the top seam with 2" clear box tape, using three layers to assure strength. Then put 4 pieces of fiberglass strapping tape over the edges. Clearly mark the RA number on the outside of the box before shipping.

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