SECTION I GENERAL INFORMATION

1.1 INTRODUCTION

This manual contains information about the physical, mechanical, and electrical characteristics of the BK Radio GMH Flex•Mode Series mobile VHF radios.

1.2 DESCRIPTION

The GMH Flex•Mode Series radio is a mobile VHF FM transceiver covering the frequency range of 136MHz to 174MHz. The GMH features an alphanumeric eight-character vacuum fluorescent display, allowing the channels to be named for easy user recognition.

An arrow on the vacuum fluorescent display points to each front mounted push button that is active. The five push buttons can be programmed with the following functions:

Standard Functions		Optional Functions			
MON	Monitor Squelch Noise	TA	Repeater Talk Around	GSC	Group Scan
SCN	Channel Scan	CG	Code Guard Disable	SQL	Squelch Adjust
PRI	Priority Scan	GRP	Channel Group	ACC	Accessory 1
PA	Public Address	SPK	External Speaker	ACC	Accessory 2
HOM	Home Channel	NXT	Next Scan Channel	ACC	Accessory 3
		LPW	Low Power Select		

The microphone connector provides an RS-232 interface for control by a keypad microphone, and for dealer programming of alphanumeric labels, push button functions, channel frequencies, Code Guard™ values, and Dual Tone Multiple Frequency/Automatic Numeric Identifier (DTMF/ANI) encode information.

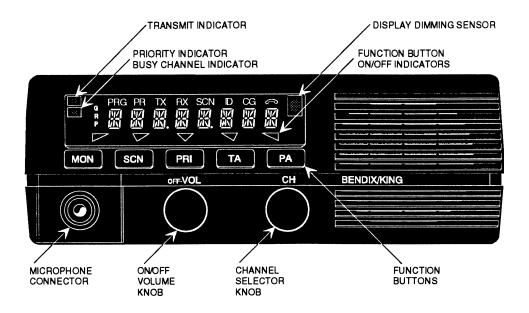


Figure 1-1 CONTROLS

General Information GMH Series VHF Radio

1.3 TECHNICAL CHARACTERISTICS

FREQUENCY RANGE 136–174MHz

CHANNELS 320 (20 groups of 16 channels)

OPERATING VOLTAGE 13.6 Vdc Negative ground

OPERATIONAL FEATURES

Fluorescent Alphanumeric DIsplay Included

Enhanced User CG Programmable Code Guard Squelch (CTCSS & CDCSS) Programmable Time Out Timer Programmable Frequency Display Programmable User Select Scan Programmable **Dual Priority Scan** Programmable **Busy Channel Lockout** Programmable **Busy Channel Indicator** Programmable DTMF ANI Programmable Talk-back Scan Programmable Interstitial Frequency Capability Programmable

PRIMARY POWER INPUT

 Receive @13.8V
 1.0 Amperes

 Transmit @ 13.6V
 16.0 Amperes

 Standby @ 13.8V
 5 Amperes

OPERATING TEMPERATURE -30° to +60° C

PHYSICAL DIMENSIONS

 Width
 6 in.

 Depth
 9.38 in.

 Height
 2.12 in.

 Weight
 5 lbs.

FREQUENCY STABILITY ± 2.5 PPM

CHANNEL SPACING 25/30 kHz and 12.5/15 kHz

CHANNEL INCREMENTS 6.25/2.5 kHz
ANTENNA CONNECTOR MINI UHF
FCC IDENTIFICATION NUMBER Pending

GMH Series VHF Radio General Information

40 = 44 =

TRANSMITTER'

	<u>25/30</u>	<u>12.5/15</u>
RF OUTPUT POWER	15 to 50 Watts	15 to 50 Watts
OPERATING FREQUENCY SPREAD	38 MHz	38 MHz
MODULATION DEVIATION	± 5 kHz	\pm 2.5 kHz
SPURIOUS AND HARMONICS	80dB	80dB
HUM AND NOISE	50dB	45dB
AUDIO DISTORTION	3%	3%
ANTENNA OUTPUT IMPEDENCE	50 Ohms	50 Ohms
AUDIO RESPONSE	+1 to -3dB	+1 to -3dB

RECEIVER

	<u>25/30</u>	<u>12.5/15</u>
SENSITIVITY: 12dB SINAD	0.28μV	0.28μV
FREQUENCY SPREAD	38 MHz	38 MHz
SELECTIVITY	75dB	63dB
SPURIOUS INCLUDING IMAGE	80dB	80dB
INTERMODULATION	75dB	63dB
MAX AUDIO OUTPUT (5% DISTORTION)	4 Watts	4 Watts
AUDIO FREQUENCY LOAD	3.2 Ohms	3.2 Ohms
INPUT IMPEDENCE	50 Ohms	50 Ohms
AUDIO RESPONSE	+1 to -3dB	+1 to -3dB
HUM AND NOISE	-45 dB	-45 dB

1.4 ACCESSORIES

A wide variety of optional accessories are available for the GMH mobile radios. Contact your BK Radio dealer for complete information.

1.5 LICENSE REQUIREMENTS

This equipment must be licensed by the Federal Communications Commission (FCC) before it may be used. Your BK Radio dealer can assist you in filing the appropriate application for the FCC, and will program each radio with your authorized frequencies and signaling codes.

1.6 SERVICE INFORMATION

If you need service, contact your local BK Radio dealer equipped to service your radio. If you find it impractical to have service performed by your local dealer, contact BK Radio at the address below:

BK Radio, Inc. ATTN: Customer Service 7505 Technology Drive West Melbourne, FL 32904 Voice (800) 422-6281 FAX (407) 953-7986

Specifications are subject to change without notice.

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