

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
SCN	Channel Scan	CG	Code Guard Disable
PRI	Priority Scan	GRP	Channel Group
PA	Public Address	SPK	External Speaker
HOM	Home Channel	NXT	Next Scan Channel
		LPW	Low Power Select
		GSC	Group Scan
		SQL	Squelch Adjust
		ACC	Accessory 1
		ACC	Accessory 2
		ACC	Accessory 3

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.

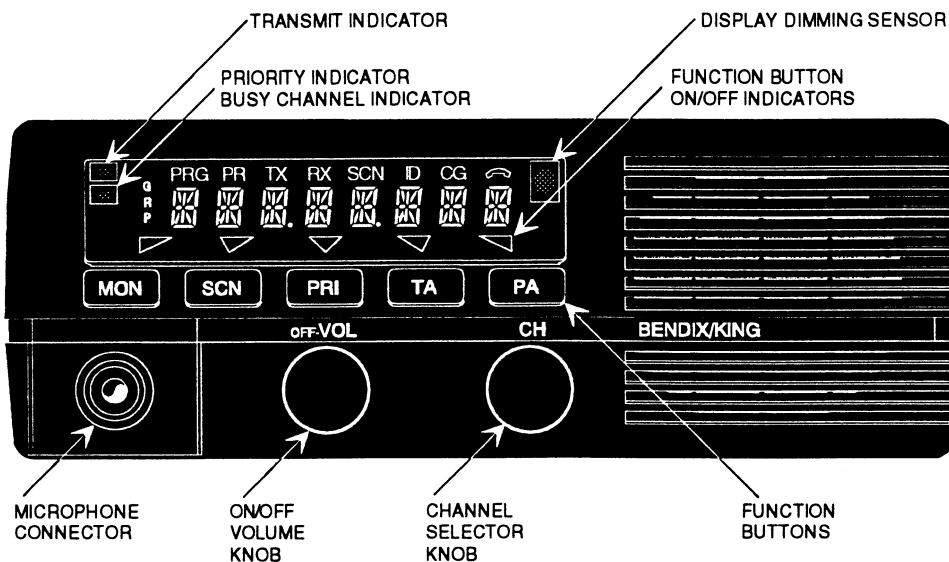


Figure 1-1 CONTROLS

Specifications are subject to change without notice.

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

Specifications are subject to change without notice.

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	± 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

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