



Cobra®

CLASS-D FIXED MOUNT VHF RADIO

The latest in Class-D Digital Selective Calling (DSC) Technology.

Built in GPS Receiver

Simply connect the radio to power and the radio will know your location.

Rewind-Say-Again®

Replay missed VHF calls. Automatically records the last 20 seconds with a digital voice recorder.

Large LCD screen

Large and bright LCD screen for easy viewing.

PA Output

PA function for public address to external speaker.

Submersible

Designed to IPX8 (JIS8) standards.

Softkey Operation

Easily make calls, activate advance features and navigate through menus.

Radio Check

Checks battery voltage when transmitting, RF power output, and antenna output.





MR F77B GPS E

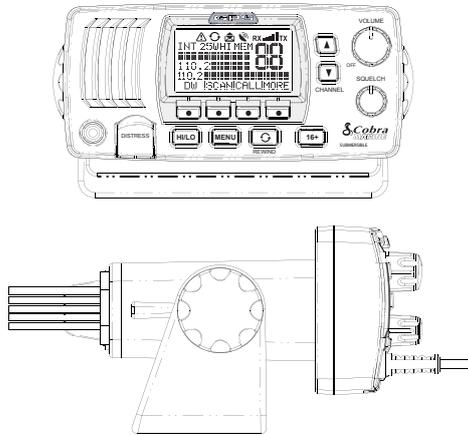
Features

Benefits

DSC (Digital Selective Calling)	Compliant with the latest specifications for Class-D VHF Radios. Digital Selective Calling allows you to send a distress signal at the touch of a button or exchange position information with other boats or stations. DSC features on this Class-D radio include; A Dedicated Channel 70 (DSC Channel) Receiver, GPS Position Display Capability, Illuminated Distress Button, Easy MMSI Entry, Position Send and Request, Position Input Reminder, Coast Guard DSC Check Capability, etc.
1 or 25 Watts	Dual output power for short and long communication.
International, U.S.A., & Canada Channels	Allows operation on any of the three (3) different channel maps established for these areas.
Rewind-Say-Again®	Replay missed calls. Automatically records the last 20 seconds of incoming radio transmissions. Handy when in noisy conditions.
Radio Check	Checks battery voltage when transmitting, RF power output, and antenna output.
Instant Channel 16	Instant access to channel 16 for emergency situations.
GPS Inside	Simply connect the radio to power and the radio will know your location. You can send your position information in case of emergency, or exchange position information with other boats.
Dual Watch	Monitors two (2) channels at once - Channel 16 and one (1) user selected channel.
Scan / Memory Scan	Scan all channels to find conversations in progress, or scan channels placed into memory.
Channel Names	Friendly VHF channel names under the channel number.
Signal Strength Meter	Shows the strength of incoming signal.
Illuminated Keys	Allows high visibility of keys.
Illuminated LCD Display: Super Large	See radio settings from practically anywhere with the largest LCD available on a fixed radio.
Noise Canceling Microphone	Blocks background noise.
External Speaker and PA Speaker	Connect an external speaker and a PA (Public Address) speaker.
NMEA In and Out	NMEA in for GPS input. NMEA output to display other vessels and their information transmitted by DSC on your chartplotter.
Submersible	Meets JIS8/IPX8 standards; Submersible for 30 minutes in 1.5 meter deep water.
External Alarm Input	Senses the alarm from your chartplotter and uses the speaker on the radio to amplify the alarm for waypoint arrival, MOB, etc.
ATIS	Capable of operating within the Automatic Transponder Identification System. ATIS includes data at the end of a transmission for station identification.
3 Year Warranty (on radio)	For products sold in the U.S.A.

Included Accessories

Flush Mount Kit & Surface Mount Kit	Easy installation of radio in or on almost any flat surface with supplied hardware.
NMEA Input Cable	Allows input from NMEA 0183 devices.



Unit Specifications

General

Number of Channels	All: International, U.S.A., & Canadian Channels
Channel Spacing	25 kHz
Modulation	5 kHz Max.
Input Voltage	13.8 VDC
Current Drain:	
Stand-by	200 mA
Receive	300 mA
Transmit	5 A @ High Power 1 A @ Low Power
Temperature Range	-20°C to 60°C
Unit Dimensions	6.25" x 2.25" x 7.125" (159 mm x 57 mm x 180 mm)
Unit Weight (Lbs)	2 lbs., 6.8 oz. (1100 g)

Receiver

Frequency Range	156.050 to 163.275 MHz
Receiver Type	Double Conversion Super-Heterodyne
Sensitivity:	
20 dB Quieting	0.35 µV
12 dB Sinad	0.30 µV
AF Output	4 Watts @ 8 Ohms

Transmitter

Frequency Range	156.025 to 157.425 MHz
RF Output Power	1 or 25 Watts
Spurious Emissions	-75 dB @ High Power -72 dB @ Low Power
Microphone Type	Electret
Microphone Impedance	2000 Ohms
Frequency Stability	+/- 10 ppm
FM Hum & Noise	50 dB

GPS

Receiver	56 channels
Acquisition Times:	
Hot	Nominal: < 1 second, Limit: +/- 5 seconds
Warm	Nominal: < 33 second, Limit: +/- 5 seconds
Cold	Nominal: < 35 second, Limit: +/- 10 seconds
Update Rate	Up to 5 Hz
Antenna Type	Internal patch antenna
GPS receiver first lock sensitivity	Nominal: -144dBm, Limit: 142dBm
GPS receiver tracking sensitivity	Nominal: -160dBm, Limit: 155dBm
Differential System Compatibility	EGNOS (Europe), WAAS (United States), MSAS (Japan), GAGAN (India)
NMEA Info:	
Output Specification	NMEA 0183- ASCII serial output
Electrical Standard	EIA-422
NMEA Sentences	DTM, GGA, GLL, GRS, GSA, GSV, RMC, VTG

Packaging Specifications

Individual Clam/Box Dimensions	3.25"H x 12.60"W x 9.70" D
Individual Clam/Box Weight	3.7 lbs.
Master Pack Qty.	2
Master Pack Dimensions	9.80"H x 13.80"W x 8.10"D
Master Pack Weight	9.40 lbs.
SKU # (Gray)	MR F77B GPS E
UPC #	0 28377 20190 5
Master Pack Barcode	5 0028377 20190 0
SKU # (White)	MR F77W GPS E
UPC #	0 28377 20184 4
Master Pack Barcode	5 0028377 20184 9

Specifications subject to change without notice.

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* Packaging is made from recyclable materials.