

# M11

FM VHF MOBILE TRANSCEIVER

## SPECIFICATIONS

### General

Frequency Range	138.005 MHz ~ 173.995 MHz
Number of Channels	100 channels
Modulation	16K0F3E Wide 11K0F3E Narrow
Frequency Stability	± 5ppm
Operating Temperature Range	-30°C ~ 60°C
Power Supply Voltage	13.6V DC ± 15%
Antenna	50 ohms
Dimensions	W 180mm H 100mm D 85mm
Weight	1.2kg

### Transmitter

Output Power	30W
Max Deviation	± 5kHz

### Receiver

Intermediate Frequency	1st - 21.4 MHz 2nd - 455 kHz
Audio Output	3W type at 10% distortion with 8 ohms

### Others

Microphone Connector	1 GND (MIC), 2 PTT, 3 MIC, 4 GND, 5 HOOK, 6 +13.6V, 7 UP, 8 Down
User Operational Keys	Scan
Programming Method	PC
Memory System	EEPROM
Tone System	CTCSS (50 tones)
DCS	83 Standard & Complimentary
Standard Accessories	Microphone, Mounting Bracket, MTS Board, DTMF Mic
Optional Accessories	

### LOCAL DEALER:



#### TAD Radio of Canada Inc

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# M11

from TAD Radio



## USER GUIDE



## **SAFETY**

**CAUTION** DO NOT operate the transmitter of any radio unless all RF connectors are secure and any open connectors are properly terminated.

**CAUTION** DO NOT operate the radio near electrical blasting caps or in an explosive atmosphere.

**CAUTION** All equipment must be properly grounded for safe operation.

**CAUTION** DO NOT operate the transceiver of any radio equipment with the antenna touching or close to, the eyes, faces, or exposed body parts.

**WARNING** DO NOT allow children to operate radio

**WARNING** All equipment should be serviced by a qualified technician.

**CAUTION** Some electronic fuel injection, anti-lock breaking systems, cruise controls, and vehicle alarms may be subject to interference from radio frequency (RF) energy or may malfunction due to a lack of protection from RF energy. If the vehicle contains such equipment, consult your communications dealer for assistance or advice in determining whether the electronic equipment in the vehicle will operate properly when the radio is transmitting.

## Unpacking Information

The following should be included with your M11:

- M11 Radio
- Mounting Bracket
- Power Cord
- DM3 Microphone
- This User Guide
- Mounting Screws, Decorator Nuts, Mic Clip

If any of these items are missing or damaged contact your TAD dealer for help.

## Installation Instructions

**WARNING** DO NOT install the radio unit where it will interfere with the proper operation of automatic collision protection devices (air bags).

**WARNING** DO NOT install the radio unit where it is likely to cause injury in case of an accident.

**Note:** this radio is NOT intended for operation in a positive ground vehicle.

A. Select a location for the radio where you will be able to easily see and reach all the controls and the microphone.

B. Using the radio mounting bracket as a template, mark the locations where the bracket mounting screws will be placed.

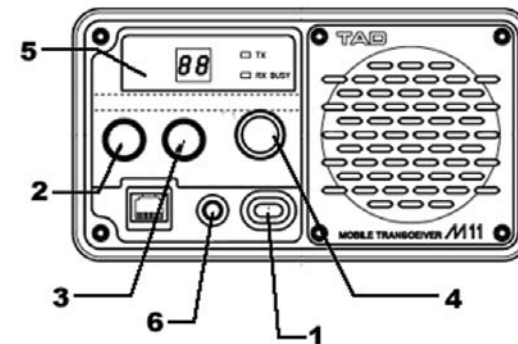
**Note:** Before drilling hole in the vehicle, verify that there is nothing that could be damaged or get in the way by drilling and putting screws in this locations. Where possible use existing grommets to route cables through the firewall, thus avoiding excessive drilling and possible damage.

C. After drilling the holes for the mounting bracket, attach the bracket to the mounting surface using the provided screws.

D. Attach the radio to the mounting bracket using the black thumb screws. If it is necessary, connect the power cord and antenna before mounting the radio.

E. Push the modular microphone connector into the microphone jack until you hear a click.

## Control Functions



### 1. Power Switch

The radio is turned on and off by pushing this control

### 2. Volume Control

The audio level from the speaker increases as this control is rotated clockwise.

### 3. Squelch Control

This controls the receiver silencing circuitry. To correctly utilize this control, first select an unused channel, then rotate the control counter clockwise until noise is heard in the speaker and the green "BUSY" LED is lit. Now rotate the control clockwise until the noise is squelched and the "BUSY" LED goes out on the display. This is the most sensitive setting for this control. Rotating this control further clockwise decreases the sensitivity of the receiver. This can be handy in noisy conditions.

### 4. Channel Selector Knob

Use this control to select a channel.

### 5. Display

Channel number	00~99
TX Indicator	Red LED
RX Indicator	Green LED

### 6. Scan Key

The Scan Button toggles the radio in and out of the scan mode.

## FCC Exposure Compliance Requirements for Occupational Use Only

The Federal Communications Commission (FCC), with its action in general Docket 9362, November 7, 1997, has adopted a safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated equipment. TAD Radio of Canada subscribes to the same safety standard for the use of its products. Proper operation of this radio will result in user exposure far below the Occupational Safety and Health Act (OHSA) and Federal Communications Commission limits.

Antennas used for this transmitter must not exceed an antenna gain of 3 Bd. The radio must be used in vehicle-mount configurations with a maximum operation duty factor not exceeding 50%, in typical push-to-talk configurations. This radio is NOT approved for use by the general population in an uncontrolled environment. This radio is restricted to occupational use, work related operations only where radio operator must have the knowledge to control the exposure conditions of its passengers and bystanders by maintaining the minimum separation distance of 1.37 meters (4.5 feet) between any persons on the antenna. Failure to observe these restrictions will result in exceeding the FCC RF exposure limits.

**CAUTION** DO NOT transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "red" LED on the front of the radio is illuminated. You can cause the radio to transmit by pressing the P-T-T button on the radio's microphone.

**CAUTION** DO NOT operate the transmitter of the M11 when someone (bystanders) outside the vehicle is within 1.37 meters (4.5 feet) of the antenna.

**NOTE:** This radio operates in FCC regulated frequency bands. All radios must be licensed by the FCC before use. Because this radio contains a transmitter, Federal law prohibits unauthorized use or adjustments of this radio.

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Thank you for purchasing the M11 mobile radio. We here at **TAD Radio of Canada**, distributor and designer of professional two-way radios, are confident that you will be pleased with the M11-VHF. It will provide you with dependable, trouble-free communications for years to come.

### IMPORTANT

Please read all instructions thoroughly before operating unit.

## INTRODUCTION

The M11 is capable of 100 channels. Your dealer has the option of designating different frequencies in each channel of the radio for you. The M11 covers 138-174 MHz without having to be retuned. It has a numeric display for the channel numbers. The new configuration makes installing the M11 quicker. For information on the M11 functions, please read this brochure in full.

*You must purchase an antenna for proper operation of the radio. Consult your radio communications dealer to determine which antenna is suitable, and where is the best location for installing the antenna.*