

Top Gun

Classic Design With Advanced Features



Predator

USER'S MANUAL

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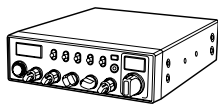
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FUNCTIONS & FEATURES

- ◆ FM/AM/PA mode
- ◆ Weather Channel 150-170MHz programmable
- ◆ CTCSS/DCS Code(Optional)
- ◆ Analog S/Rf Meter + Digital SWR Meter
- ◆ PC programmable
- ◆ Dual Echo Controls
- ◆ SQ, ASQ Function
- ◆ RF Gain Adjustment
- ◆ Mike Gain Adjustment
- ◆ H/L Power AM H/M/L Power FM
- ◆ Programmable RB
- ◆ NB/ANL Function
- ◆ Repeater Offset Function
- ◆ Beep Voice Prompt
- ◆ TOT Function
- ◆ HI-CUT Filter
- ◆ Busy Channel Lock
- ◆ Talk-Back Monitor
- ◆ Three Level LED Brightness Adjustment
- ◆ SWR Protection
- ◆ Voltage Protection

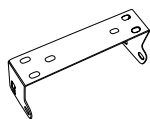
■ STANDARD ACCESSORIES



Radio



Microphone



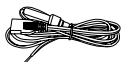
Mounting Bracket



Microphone Hanger



Non-slip Mat



DC Power Cable



Screws for bracket



Pads for bracket



Adjusting screws



Spare Fuses (10A,250V)



Self-tapping Screws



Pads

■ OPTIONAL ACCESSORIE



USB Programming Cable

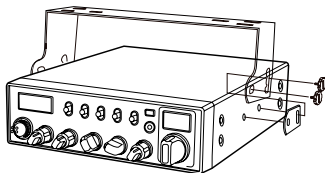
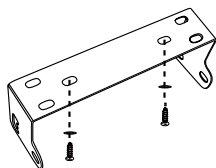


External Speaker

■ INSTALLATION

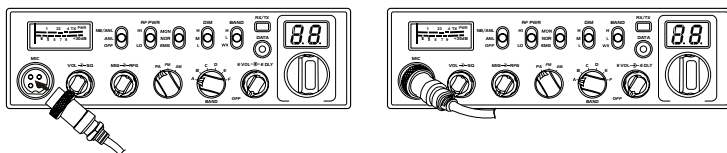
Choose the most appropriate location from a simple and practical point of view. Your radio should not interfere with the driver or crash the driver's knee or leg when pushing brake.

1. Using the self-tapping screws and pads(2 sets) to fix the bracket.
2. Put the Non-slip mat on the 2 ends of the bracket and put in the radio. Then insert the adjusting screws and check careful each screw, make sure the screws and machine will not loose when the car shaking.
3. Choose suitable angle by the 3 screw holes in the two ends of bracket.



❖ Microphone connection

1. Plug microphone connector into jack.
2. Pull on the screw for microphone connector.

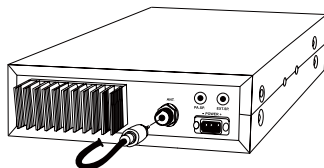


❖ ANTENNA INSTALLATION

Before using this radio, please install a high efficient and properly adjusted CB antenna, suitable antenna type and correct installation will provide excellent communication.

Always use 50 Ohm coaxial cable for a single antenna and 75 Ohm cable for a dual antenna system. Your antenna system should be 1.5:1 SWR or lower for best performance. A SWR of 3:1 or higher could damage the transmitter.

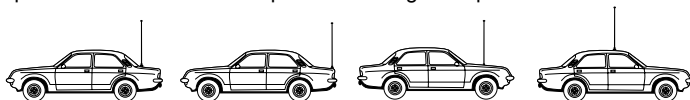
1. Screw the antenna connector into the antenna jack.
2. Grounding the antenna system to ensure best performance of this radio.



WARNING:

- ▲ Always connect the antenna before transmitting, or it might damage the radio.
- ▲ To avoid the risk of fire, electric shock, radio damage, all base station should be equipped with a lightning protector.
- ▲ Be sure choose a matching antenna, Check with your local dealer.

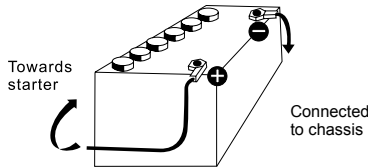
3. The position of antenna can be put as following example:



❖ POWER CONNECTION

This radio adopt 13.8V power supply, never connect it to 24V battery, And the 13.8V car battery shall with sufficient current, or the LCD will become dark and Transmit power will drop down.

1. Connect positive red power cable with the + terminal of the battery.
2. Connect negative black power cable with the - terminal of the battery.
3. Connect the DC power cable to the transceiver's power supply connector.
 - ▲ If a cigarette lighter is used, use one rated for at least 10 Amps.
 - ▲ Locate the power cable away from high temperature, moisture, portfire and cable insulator.
 - ▲ Use a full power cable even it is longer than need, do not take off the fuse holder from the cable.



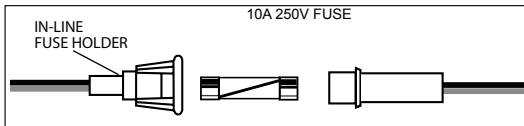
✦ Replacing Fuse

This radio requires a 10A, 250V fuse. NEVER USE A FUSE WITH A HIGHER RATING.

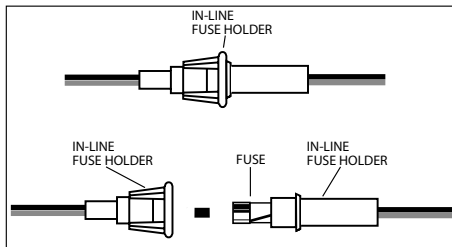
If the fuse blows, determine the reason, then correct the problem.

After the problem is resolved, replace the fuse. If newly installed fuses continue to blow, disconnect the power cable and contact your authorized dealer or an authorized servicecenter:

1. Pull the two fuse cover in difference direction and open it.

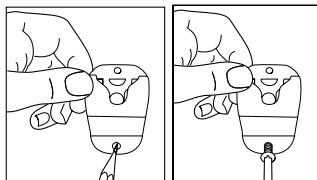


2. Replace the blown fuse with good one, and close the fuse holder.
3. Be sure to use suggested fuse, or it might damage the radio.



❖ Install Microphone Hanger

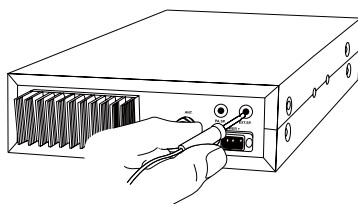
Choose a ideal location which will not interfere the driver. Using supplied self-tapping screws and pads(2 sets) to fix the hanger.



❖ Install External Speaker

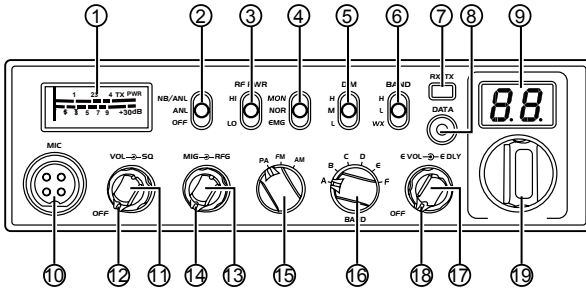
If use an external speaker, please choose 8ohm speaker with 3.50mm mono band (doulbe cable) plug.

1. Locate the external speaker in a suitable place.
2. Plug into the speaker jack.



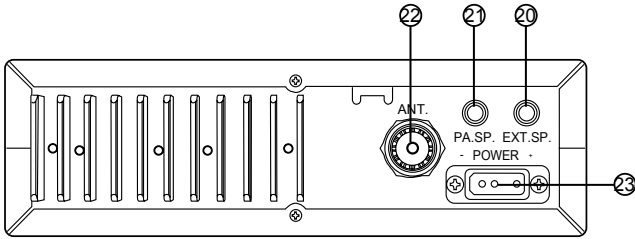
■ GETTING ACQUAINTED

✦ Front Panel



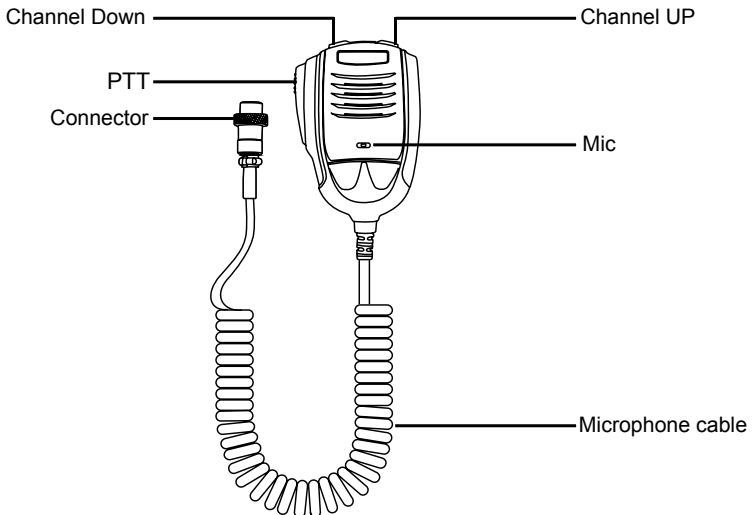
No.	Functions
1	S/RF Meter
2	Control NB/ANL function on/off
3	Control power level
4	Monitor (Talk-Back) level control/EMG
5	Control LED brightness
6	Choose H and L band group
7	TX/RX indicator
8	PC programming port
9	Channel & Multi-Function display
10	Mike connector
11	Power on/off volume level control
12	Squelch level control
13	Control Mike gain level
14	Control RF gain level
15	Choose AM/FM/PA mode
16	Choose working band
17	Control echo repeat times
18	Control echo delay time
19	Channel Switch

❖ Rear Panel



No.	Functions
20	External Speaker Jack
21	PA Speaker Jack
22	Antenna Jack
23	Power Supply Jack

❖ Microphone



■ HOW TO USE YOUR RADIO

✘ OFF/ON Radio

1. Turn VOL clockwise to switch on the radio, the radio will emit a beep. When the LED displays frequency or channel, the radio is on.
2. Turn VOL anti-clockwise to switch off the radio, the radio is OFF when hear a Click from the switch.

✘ Volume Control

When the radio is turned on, turn VOL clockwise will increase the volume, turn VOL anti-clockwise will reduce the volume.

Note: Adjust the volume during communication to get suitable level.

✘ Squelch Control

When the radio is standby, turn SQ outter shaft clockwise to adjust squelch level.

✘ Mic Gain Control

When the radio is transmitting, turn MIC inner shaft to adjust Mic gain. Turn it clockwise to increase gain, counter-clockwise to reduce gain.

✘ RF Gain Control

When the radio is receiving, turn RFG outter shaft to adjust RF gain. Turn it clockwise to increase gain, counter-clockwise to reduce gain.

✘ Working mode Control

Turn the mode switch to choose AM/FM/PA mode.

✘ Working Band Control

Turn the band switch to choose A/B/C/D/E/F band.

✘ Echo times Control

When Echo function is on, turn E VOL inner shaft to adjust echo repeat times. Turn it clockwise to increase times, anti-clockwise to reduce times.

✘ Echo duration Control















When Echo function is on, turn E DLY outter shaft to adjust echo duration time. Turn it clockwise to increase delay, counter-clockwise to reduce delay.

✘ Channel Selection

Turn the channel knob to select desired channel.

Clockwise to increase, counter-clockwise to reduce channel.

■ SLIDE SWITCH

No.	Function	Position	Description
1	NB/ANL		Turn on NB and ANL function
			Turn on ANL function
			Turn off NB/ANL function
2	RF Power		Set on high RF power AM: 10W FM: 10W
			Set on super RF power AM: 10W FM: 40W
			Set on low RF power AM: 4W FM: 4W
3	MON NOR EMG		Choose Monitor level. This radio has OFF~54 total 55 levels available
			Radio works in normal channel
			Radio works in EMG channel, EMG channel available by programming
4	DIM		LED brightness is high level
			LED brightness is middle level
			LED brightness is low level
5	BAND		Choose higher frequency band group
			Choose lower frequency band group
			Turn on Weather channel function

■ ERROR CODE

When the RX/TX indicator light is yellow, LED displays code means the radio has problem.

E1: Voltage too low

E2: Voltage too high

E3: WX function invalid

E4: Current BAND invalid

E5: TX SWR too high

■ SPECIFICATIONS

GENERAL	
Frequency Range	28.000-29.695MHz(Programmable)
Frequency Band	L band: A/B/C/D/E/F H band : A/B/C/D/E/F
Channel	40 channels(programmable) in each band
Frequency Control	Phase-Locked-Loop Synthesizer
Frequency Tolerance	± 5.0 ppm
Temperature Range	-20°Cto +50°C
Microphone	with push-to-talk /UP/DN and coiled cord
Input Voltage	13.8V
Dimensions (in mm)	287(L)x200(W)x61(H)
Weight	1.75kg
Antenna Connector	UHF, SO239

TRANSMITTER	
Power Output	AM: 10W/4W; FM:40W/10W/4W
Drain	8A(with modulation)
Modulation	FM/AM
Unwanted Sideband	50dB
Frequency Response	AM/FM: 300 to 3000Hz
Output Impedance	50ohms, unbalanced

RECEPTION	
Sensitivity	AM: 1.0 μ V for 10dB(S+N)/N at greater than 1/2 watt of audio output FM: 1.0 μ V for 20dB(S+N)/N at greater than 1/2 watt of audio output
Adjacent-Channel Selectivity	AM/FM: 60dB
Image Rejection	More than 65dB
IF Frequency	AM/FM: 10.695MHz 1st IF, 455KHz 2nd IF
RF Gain Control	45dB adjustable for optimum signal reception
Automatic Gain Control(AGC)	Less than 10dB change in audio output for inputs from 10 to 100,000 microvolt
Squelch	Adjustable; threshold less than 1.0 μ V. Automatic Squelch Control(only AM/FM)1.0 μ V
Audio Output Power	3 watts into 8 ohms
Frequency Response	AM/FM: 300 to 3000Hz
Built-in Speaker	8 ohms, round
External Speaker(Not Supplied)	8 ohms, disables internal speaker when connected

Note: Specifications are subject to change without notice due to advancements in technology.

For more information, technical support, and programming software visit:

www.topguntec.com

Top Gun Technologies

www.TopGunTec.com