



MIDLAND®



ALAN 121

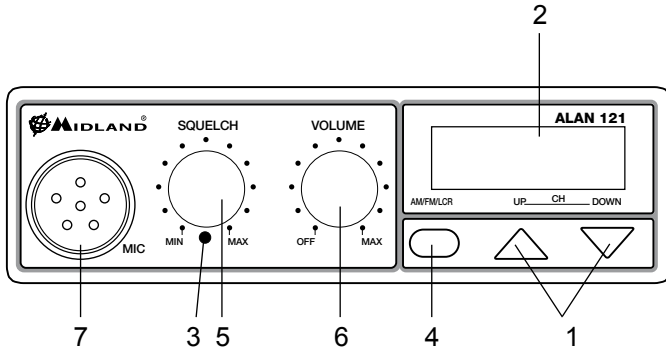
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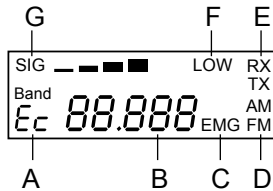
ALAN 121 Handheld Multi-standard CB transceiver

ALAN 121 is a small and easy to use CB transceiver. It's extremely compact, sturdy and benefits from basic controls that will satisfy even the most demanding of users. The backlit display can be customised with 7 different colours. Its main feature is its ability to operate in many European and extra-European countries simply by selecting the desired frequency band. The ALAN121 is supplied with a high-performance microphone which guarantees excellent modulation.

FUNCTION AND LOCATION OF THE CONTROLS

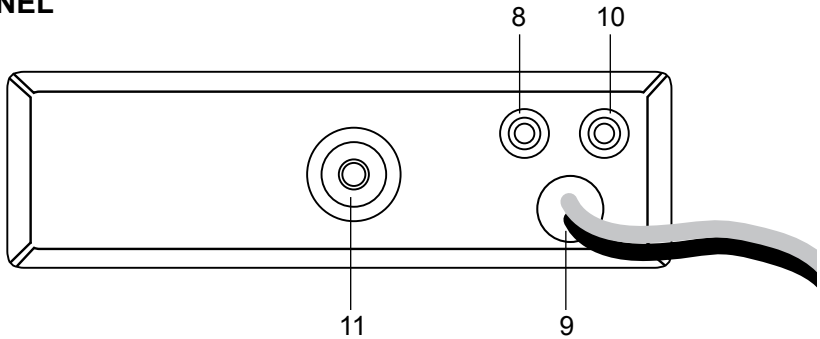


1. Channel selector
2. Multifunction backlit display. It shows:



- A. Frequency band selected.
 - B. Channel selected number
 - C. EMG mode
 - D. AM/FM mode
 - E. RX/TX:TX=transmit mode; RX=receive mode
 - F. LOW: displayed when the radio transmits in low power (this mode is possible with some frequency bands only – see the Frequency band chart)
 - G. The received signal strength and the power of the transmitting signal
3. **Button for changing colour:** by pushing a pointed object into the hole, you can change the backlight colour of the display. You can choose amongst the following colours: white, yellow, violet, red, light blue, green, blue or no colour.
 4. **“AM/FM”(LCR) button:** To select AM or FM mode. If you select a frequency band operating in FM mode only, this button enables the LCR function (Last Channel Recall).
 5. **“Squelch” Control:** For the maximum receiver sensitivity, the control must be regulated exactly where the receiver background noise disappears.
 6. **“ON/OFF Volume” Control.** In “OFF” position your transceiver is OFF. Turn this control clockwise to switch on the unit. Turn the knob clockwise a little more to set the audio level, until you get a comfortable reception.
 7. **Microphone jack:** Insert the mic connector into this jack.

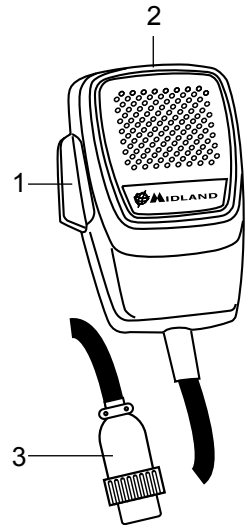
REAR PANEL



8. **"EXT" jack:** external loudspeaker jack.(the internal loudspeaker is excluded)
9. **Power 13.8V DC:** power supply cable
10. **S.Meter jack:** it allows an external "S. Meter" connection
11. **Antenna connector (SO239 connector type)**

MICROPHONE

1. **PTT:** transmission button
2. **UP/DOWN buttons:** manual channel selector.
3. **6 pin microphone connector**



INSTALLATION

Safety and convenience are the primary consideration for mounting any piece of mobile equipment. All controls must be readily available to the operator without interfering with the movements necessary for safe operation of the vehicle. Set the proper position in the car to install the transceiver using the supplied supporting bracket or eventually the slide bracket.

Tighten the retaining screws. The fixing bracket must be close to metallic parts.

POWER SUPPLY

Be sure the transceiver is OFF. In the direct-voltage power supply, it is very important to observe the polarity even if the unit is protected against the accidental inversion:

Red = positive pole (+)

Black = negative pole (-)

The same colours are present on the battery and in the fuse box of the car. Correctly connect the cable terminal to the battery.

INSTALLING AN ANTENNA

1. Place the antenna as high as possible
2. The longer the antenna is, the better will be the performance
3. If possible, mount the antenna in the centre of whatever surface you choose
4. Keep antenna cable away from noise sources, such as the ignition switch, gauges, etc.
5. Make sure you have a solid metal-to-metal ground connection.
6. Prevent cable damage during antenna installation.

WARNING: To avoid damage, never operate your CB radio without connecting a proper antenna. A periodical control of the cable and of the S.W.R. is recommended.

HOW TO OPERATE WITH YOUR TRANSCEIVER

1. Screw the microphone plug into the microphone jack.
2. Make sure your antenna is securely connected to the antenna connector.
3. Make sure the SQUELCH control is turned fully counterclockwise.
4. Turn on the unit and adjust the volume control.
5. Select your desired channel.
6. To transmit, press the PTT button and speak in a normal tone of voice.
7. To receive, release the PTT button.

FREQUENCY BAND SELECTION

The frequency bands must be chosen according to the country where you are going to operate.

Procedure:

Switch off the unit.

Turn it on while pushing the "UP" and "DOWN" buttons at the same time.

Select the desired frequency band by pushing the UP / DOWN buttons (see the chart in the following page).

Wait for 5 seconds or switch off and then on the radio.

NOTE1

In the UKE or UKC frequency bands, you can select directly the other band by pushing the "AM/FM/LCR" button for 3 seconds.

NOTE2

If you select a frequency band which operates in FM mode only, the "AM/FM/LCR" control enables the LCR function (last channel recall).

FREQUENCY BAND CHART

Digits displayed	Country	Band	Frequency
I	Italy	40CH AM/FM 4W	Fx 26,965-27,405 MHz
I2	Italy	34CH AM/FM 4W	Fx 26,875-27,265 MHz
D	Germany	80CH FM 4W - 12CH AM 1W	Fx 26,565-27,405 MHz
D2	Germany	40CH FM 4W - 12CH AM 1W	Fx 26,965-27,405 MHz
D3	Germany	80CH FM 4W - 40CH AM 1W	Fx 26,565-27,405 MHz
EU	Europe	40CH FM 4W 40CH AM 1W	Fx 26,965-27,405 MHz
EC	Europe	40CH FM 4W	Fx 26,965-27,405 MHz
E	Spain	40CH AM/FM 4W	Fx 26,965-27,405 MHz
F	France	40CH FM 4W - 40CH AM 1W	Fx 26,965-27,405 MHz
UKE	England	40CH FM 4W	Fx 26,60125-27,99125MHz
UKC	England	40 CH FM 4W CEPT	Fx 26,965-27,405MHz

ATTENTION!

The frequency band definitely allowed all over Europe is **40 CH FM 4W (EC)**.

TECHNICAL SPECIFICATIONS

GENERAL

Channels	40 FM (see the frequency band chart)
Frequency Range	25.615 to 30.105 MHz
Frequency Control	PLL
Operating Temperature Range	-10°/+55° C
DC input voltage	13.8V DC ±15%
Duty cycle5/5/90 (1 hour of use)
Size	165 (L)x38 (H)x123 (D) mm
Weight	0,820 Kg

RECEIVER

Receiving system	dual conversion superheterodyne
Intermediate frequency	I° IF: 10.695 MHz • II° IF: 455 KHz
Sensitivity	< 1μV for 20 dB SINAD
Audio output power @10% THD	Min.2.0 W @ 8 Ohm
Audio distortion	less than 3% @ 1 KHz
Current drain at stand/by	200mA

TRANSMITTER

Output power	4W @ 13.8V DC
Modulation	AM: from 85% to 95%
.....	FM: 1,8 KHz ± 0,2 KHz
Current drain	1100mA (Power position with no modulation)

A readily accessible disconnect device shall be incorporated in the installation wiring.
The disconnect device shall disconnect both poles simultaneously.