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What's in the box

- M-30 transceiver with power supply cord;
- 1 microphone;
- 1 mounting bracket;
- 1 polybag including screws to mount the bracket and to fix the radio to the bracket;
- 1 protection fuse;
- 1 microphone holder;

If any item is missing, please contact your Midland dealer.

Cautions

M-30 is an electronic product of exact design and should be treated with care. The suggestions here below will help you to fulfill any warranty obligations and to enjoy this product for many years.

- Do not attempt to open the radio for any reason! The radio's precision mechanics and electronics require experience and specialized equipment; for the same reason, the radio should under no circumstances be realigned as it has been calibrated for maximum performance. Unauthorized opening of the transceiver will void the warranty.
- Do not store the Radio under the sunshine or in hot areas. High temperatures can shorten the life of electronic devices, and warp or melt certain plastics.
- Do not store the radio in dusty and dirty areas.
- Keep the Radio dry. Rainwater or damp will corrode electronic circuits.
- If it appears that the Radio diffuses peculiar smell or smoke, please shut off its power immediately.
- Do not transmit without antenna.
- Do not attempt to configure the transceiver while driving; it is very dangerous.

Main features

- Wide graphic TFT display
- Power supply 12V-24V
- Metal chassis
- Programmable controls
- Channel number or channel number+frequency band displayed
- AM/FM multi-band radio
- Digital automatic squelch adjustable in different levels
- S-Meter/SWR-Meter
- RF-gain
- Scan
- Dual Watch
- Customizable Roger Beep
- Emergency channels 9/19 and priority channel
- Noise Blanker
- Voice enhancer
- Protection against polarity inversion
- 8 memory channels customizable
- Time Out Timer
- Adjustable backlight
- Automatic turning on
- Keypad lock
- Microphone with RJ45 connector and Up/Down/Priority Channel controls
- Software programmable (through the optional programming kit PRG-30 cod. C1318)

Installing the radio

Installation

- Safety and convenience are the primary considerations 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. To install the transceiver select a location that will minimize danger to your passengers and yourself while the vehicle is in motion; the location should be well-ventilated and shielded from direct sunlight.
- Install the mounting bracket in the vehicle using the supplied self-tapping screws and flat washers.
- Install the bracket into the vehicle using the supplied self-tapping screws and washers.

Power supply

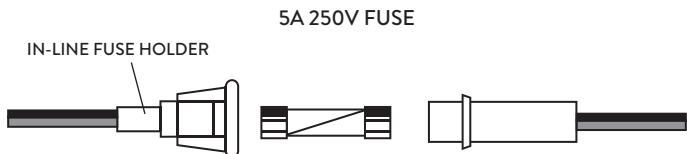
- Be sure the transceiver is off.
- On the rear of the radio you will see a bi-color power supply cable with a fuse holder on the red cable.
- This cable is supplied with a connector suitable for the connection to the radio and vehicle's battery.
- In the direct-voltage power supply, it is very important to observe the polarity even if the unit is protected against the accidental inversion.
- Red = positive pole (+)
- Black = negative pole (-)
- The same colors are present on the battery and in the fuse box of the car. Correctly connect the cable terminal to the battery.
- The battery of vehicle must have a nominal capacity of 12 or 24V.
- Be sure the battery of the vehicle is able to supply enough power to the radio.
- Connect the DC power cable to the regulated DC power supply and ensure that the polarities are correct.

ATTENTION: To obtain best performances we recommend installing the radio in a position with a good air circulation.

Replacing fuses

If the fuse blows, try to find a cause before replacing it. If necessary, contact a service center for assistance.

The fuse on the rear of the radio has a current rating of 5A



Connecting the microphone

Plug-in the supplied microphone to the proper connector on the front panel of the radio.

The microphone can be hung up thanks to the holder supplied in the packaging.

Installing an antenna

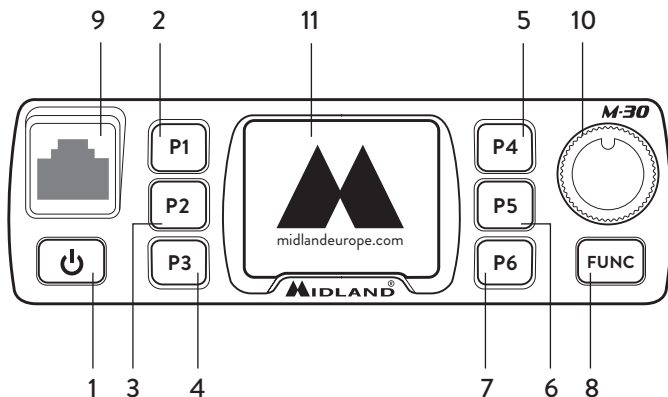
- Place the antenna as high as possible
- The longer is the antenna, the better will be the performance
- If possible, mount the antenna in the centre of the surface
- Keep the antenna cable away from noise sources, such as the ignition switch, gauges, etc
- Make sure you have a solid metal-to-metal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

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

External speakers

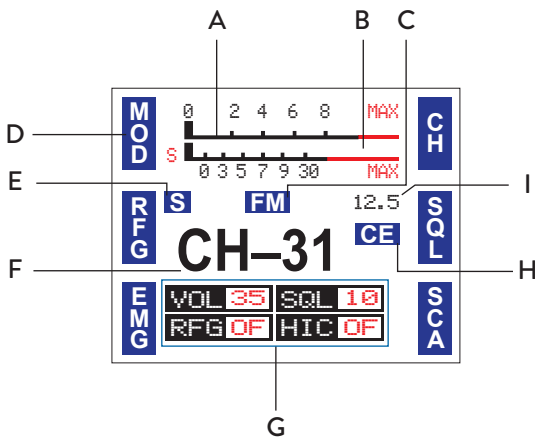
If you use external speakers, the impedance must be 4 Ω or 8 Ω . The external speaker jack accepts a 3.5mm mono plug.

Controls and display description



1. **Power ON/OFF control.** Keep pressed to turn on and off the transceiver. Shortly press to enable/disable the speaker.
2. **P1 programmable key**
3. **P2 programmable key**
4. **P3 programmable key**
5. **P4 programmable key**
6. **P5 programmable key**
7. **P6 programmable key**
8. **FUNC:** function button. With this control you activate the secondary functions of the programmable keys on the front panel of the radio. Keep it pressed to enter the menu.
9. **Mike connector:** plug-in the microphone or the optional programming cable.
10. **Main knob:** shortly push to skip 10 channels forwards, while if you keep it pressed the keypad is locked/unlocked. The **main knob** allows to look through the menu options and to change the settings. Shortly press to confirm your selection.
11. **Graphic multicolor display**

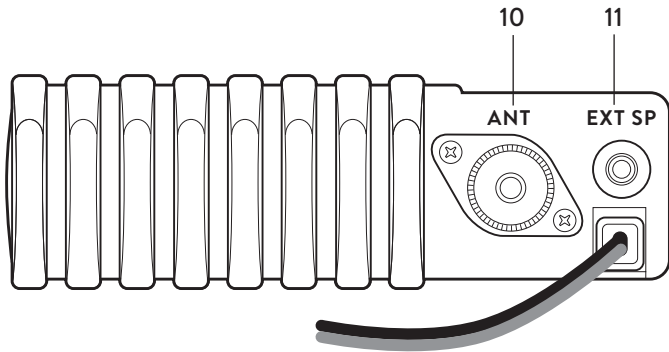
Display



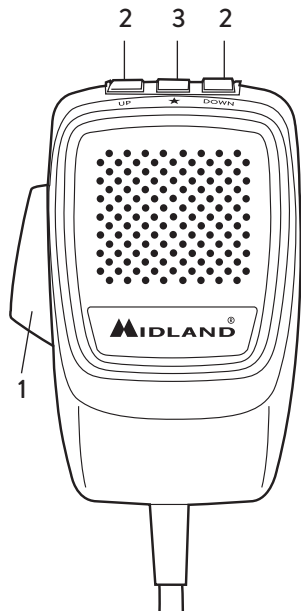
- A. Output power indicator
- B. Received signal strength indicator or SWR level (in tx mode)
- C. AM or FM modulation
- D. Functions enabled with programmable controls P1-P6
- E. S: Indicator of a channel included in the scan list. T: appears when the radio is in tx mode.
- F. Channel or frequency in use
- G. Here are located the main parameters of the radio :

RX:	TX:
VOL, volume level	PWR, output power level
SQL, squelch level	RB, roger beep type
RFG, RF-Gain	SPL, split (function enabled only in the amateur version)
HIC, Voice enhancer	TOT, Time Out Timer setting
- H. Name of the band in use
- I. Power supply value

Rear panel



10. **ANT:** antenna connector, SO239 type.
11. **EXT SPK:** external speaker jack.



Microphone

1. **PTT:** push to transmit
2. **UP/DOWN:** press to increase/decrease the volume or to look through the options and settings.
3. **★** press to select the priority channel.

Main operations

M-30 is equipped with 6 programmable buttons: **P1-P2-P3-P4-P5-P6**. They can be customised upon your needs; every button can be associated up to 3 functions in 3 different menu at the same time.

By default the menu are 2; a third one can be activated through the optional programming kit **PRG30**.

Menu 1:

P1	MOD	P4	CH
P2	RFG	P5	SQL
P3	EMG	P6	SCA

Menu 2:

P1	DW	P4	DIM
P2	DSP	P5	NB
P3	HIC	P6	MEM

The functions associated to controls **P1-P2-P3** will appear on the left side of the display, while those activated with controls **P4-P5-P6** will be displayed on the right. It is possible to change the functions associated to the **P** buttons through the menu or the optional programming software.

To change the menu press **FUNC**.

Turning on and off

Press the **⏻** control for 1 second to switch on the radio; press it for 2 seconds to switch it off.

Volume adjustment

Rotate the **main knob** clockwise to increase the volume, counter-clockwise to reduce it.

Channel selection

Press the button **P4** of menu 1 or the one assigned to the channel function **CH**. Then rotate the **main knob** clockwise to select the next channel, counter-clockwise to select the previous one.

Note: the volume can also be adjusted with the **UP/DOWN** controls on the microphone.

Note: to skip 10 channels forwards shortly press the **main knob**.

Selecting the operating mode (AM/FM)

To change the operating mode press **P1** of menu 1 or the key assigned to the **MOD** function. The indicator will appear in the lower part of the display.

To confirm your selection press the **main knob** or wait for 10 seconds.

Squelch adjustment

Squelch is used to mute the speaker when no signals are present. The squelch level must be adjusted according to the background noise. With the squelch level set correctly, you will hear sound only while actually receiving a signal. The higher the squelch level selected, the stronger must be the signals in order to hear them.

To adjust the squelch press **P5** of menu 1 or the control associated to the **SQL** function, select the desired level by rotating the **main knob**.

You can choose amongst **28 different levels**: the most sensitive is level 1, while the least sensitive is level 28.

To confirm your selection press the **main knob** or wait for 10 seconds.

Activating the automatic squelch

To activate the automatic squelch keep pressed the control associated to the **SQL** function. Rotate the **main knob** to select the desired level. There are **9 levels** available: the most sensitive is level 1, while level 9 is the least sensitive. Push the **main knob** for confirmation.

Once the automatic squelch is activated, the indicator **SQL** on the display will be replaced by **ASQ**.

Selecting the mode displayed (frequency or channel number)

M-30 is able to display either the frequency or the channel number.

To change this mode, press **P2** in menu 2 or the key that you associated to **DSP** function.

To confirm press the **main knob** or wait for 10 seconds.

Receiving

The received signal strength is shown with the green bar in the upper part of the display.

Make sure you set the desired modulation (AM or FM).

Note: To rapidly mute the speaker press **⏻**. In the lower part of the display the indication **Audio: MT** will appear. Push **⏻** again to enable the audio again. The display will show **AUDIO: Esc**.

Transmitting

Before transmitting, be sure that the channel is not busy in that moment.

Press **PTT** and speak towards the microphone.

While transmitting, the display will show **T** and the output power will be indicated by the bar in the upper part of the display.

Release to receive.

Selecting the band in use

Midland M-30 is a multi-standard CB that can be used in many countries. Depending on the country where you are, you have to select the proper and allowed band. Here below the chart showing the frequency bands included in M-30:

Band displayed	Country
EU	Europe /Italy 40CH AM/FM 4W
CE	40CH FM 4W
UK	England 40CH FM 4 Watt English frequencies + EC 40CH FM 4Watt CEPT frequencies
PL	Poland 40CH AM/FM 4W
I2	Italy 34 CH AM/FM 4W
DE	Germany 80CH FM 4W / 40CH AM 4W
IN	27CH AM/FM 4W
FOR EXTRA EU MARKET ONLY	
HF	Russia 400CH AM/FM 4/8/15W
HF	Poland (Russia -5KHz) 400CH AM/FM 4/8/15W
HAM	Amateur 340CH AM/FM 4/8/15W. The use of this band is allowed with amateur licence only

To select the desired frequency band, follow this procedure:

1. Switch off the radio;
2. Turn it on while keeping pressed **FUNC**;
3. Release **FUNC** as soon as the display shows:

CB FREQ
SelectBand:
CE BAND

4. Now select the desired band by rotating the **main knob**.
5. For confirmation keep it pressed for 5 seconds.

Note 1: if the UK band is selected, you can switch directly to the CE band: just press P1 of menu 1 or the key associated to the MOD function.

Note 2: the frequency band allowed all over Europe is CE (40 Ch FM 4W). See the Restrictions on the use chart included in the package.

Keypad lock

To lock the keypad keep pressed the **main knob** for 2 seconds. The display will show **Key Lock**. When this function is activated all controls are locked on the radio and on the mike except PTT.

To unlock the keypad keep pressed the **main knob** for 2 seconds again.

Menu settings

With the menu it is possible to customize the functions of the radio and the channels.

With **FUNC** and the **main knob** it is possible to go through the menu and change the parameters. The **main knob** in fact is not only a selector but also a control to enter the menu and confirm the settings.

Going through the menu

1. Press the **FUNC** key for 2 seconds;
2. Rotate the **knob** to select the desired function;
3. Press the **knob** again to enter the options of the selected function;
4. Select the desired parameter by rotating the knob or using the **UP/DOWN** controls of the microphone;
5. Push the **knob** for confirmation.
6. Press the **P3** control on the front panel of the radio to go back to the previous menu.
7. Push **P3** again to exit all menu or wait for 5 seconds to return to stand-by condition.

MENU:

- **FUNC MENU** (to change the general settings of the radio)
 1. BEEP
 2. TOT
 3. DIM
 4. VOL
 5. SQL
 6. ASQ
 7. RFG
 8. DSP
 9. KEY
 10. SCM
 11. SCRT
 12. AOP
 13. SWR
 14. RST

 - **PUD MENU** (to change all channels' parameters of the band in use with only one setting)
 1. A/FM
 2. NB
 3. HIC
 4. ROG
 5. BUSY
 6. BOT
 7. EOT
 8. CALL

 - **CHAN MENU** (to change the settings of the channel in use)
 1. PD
 2. SCAN
 3. A/FM*
 4. NB*
 5. HIC*
 6. ROG*
 7. BUSY*
 8. BOT*
 9. EOT*
 10. CALL*

 - **DTMF MENU** (to change the settings of DTMF codes)
 1. DTMF
 2. SND-T
 3. FIR-T
 4. PRE-T
 5. DELAY
 6. D-FUN
 7. DISP
 8. KEY MENU**
- * these options are possible only if PD is set on "OFF".
- ** KEY MENU allows to set the options or functions on P1-P6 keys.

List of the menu functions

Display	Menu N.	Function	Options
FUNC MENU			
BEEP	1	Keypad tone	ON, OFF
TOT	2	Time Out Timer	OFF, 1, 2, ..., , 30 min.
DIM	3	Selection of the display and control sbacklight level	1, 2, 3
VOL	4	Setting of the speaker volume	1,2,3,...,56
SQL	5	Squelch level selection	OFF,1,2,...,28
ASQ	6	Selection of the automatic squelch sensitivity	1,2,3,...,9
RFG	7	Selection of RF -Gain level	OFF,3,6,9,... ,30,AU
DSP	8	Mode displayed (channel or frequency)	CH,FRQ
KEYs	9	Selection of the menu enabled	1/2/3, 1/2, 2/3, 1/3
SCM	10	Type of scan	SQ, TI
SCRT	11	Scan resume time	5S, 10S, 15S, ..., 30S
AOP	12	Automatic turning on	ON, OFF
SWR	13	SWR test for antenna	---
RST	14	Reset	OPT, ALL
PUD MENU			
A/FM	1	Operating mode	AM, FM
NB	2	Noise Blanker	OFF, ON
HIC	3	Voice enhancer	OFF, ON
ROG	4	Roger beep	OFF, 1, 2, 3, 4, 5
BUSY	5	Busy channel lockout selection	OFF, ON
BOT***	6	Activation of DTMF tones while pressing PTT	
EOT***	7	Activation of DTMF tones while relea- sing PTT	
CALL***	8	Selection of the call tone type	

CHAN MENU			
PD	1	Enabling the separate channel settings	OFF, ON
SCAN	2	Adding or deleting the channel in use from the scan list	ADD, DEL
When the PD function is activated, the following features are disabled:			
A/FM	3	Selection of the operative mode	AM, FM
NB	4	Noise Blanker activation	OFF, ON
HIC	5	Voice enhancer	OFF, ON
ROG	6	Roger beep	OFF, 1, 2, 3, 4, 5
BUSY	7	Busy channel lockout selection	OFF, ON
BOT***	8	Activation of DTMF tones while pressing PTT	
EOT***	9	Activation of DTMF tones while releasing PTT	
CALL***	10	Selection of the call tone type	
DTMF MENU***			
DTMF	1	Selection of the DTMF code associated to CALL key	1,2,3, ...,16
SND-T	2	Setting the tx time of the DTMF code	10ms, ..., 500ms
FIR-T	3	Setting the tx time of the first digit of the DTMF code	0ms, ..., 1000ms
PRE-T	4	Pre-loading DTMF time setting	100ms, ..., 2500ms
DELAY	5	Delay time setting	0ms, ..., 1000ms
D-FUN	6	D-letter sending mode	D, 1S, 2S, ..., 16S
DISP	7	DTMF code sent displayed	OFF, ON
KEY MENU			
In this menu it is possible to set the functions assigned to P1-P6 controls			

Note: the list of the options can change in case some settings have been modified through the optional programming software.

***: The DTMF functions are not available on M-30.

Memory channels

M-30 allows you to store up to 8 channels.

The channels let you store the frequency and data. So that you don't have to re-program the same data repeatedly and you can immediately tune on the desired channels.

Storing a channel

1. Select the channel you want to store.
2. Set all desired parameters to the channel (AM/FM, HIC, RB, NB).
3. Keep pressed for 2 seconds **P6** in menu 2 or the key associated to **MEM** function, the channel number will appear on the display.
4. If the channel blinks it means that it is not stored. While if it doesn't, it is already stored. It is possible however to overwrite the memory information on the busy channel.
5. Select the channel number to store (or overwrite) by turning the **main knob**.
6. Press for 2 seconds **P6** in menu 2 or the control associated to **MEM** function, or **FUNC** on the mike to delete the memory.

Recall a channel

Press **P6** in menu 2 or the key associated to **MEM** function to enter the memory channels.

Rotate the **main knob** to select the desired memory channel.

Delete a channel

Press **P6** in menu 2 or the key associated to **MEM** function to enter the memory channels.

Select the channel to delete.

Keep pressed for 2 seconds **P6** in menu 2 or the key associated to **MEM** function.

Scan function

M-30 has 2 types of scan:

- **TI:** everytime a signal is detected, the radio will stop scanning for a few seconds, then it will start scanning again on the other frequencies even though the signal is still present.
 - **SQ:** whenever a signal is detected, the radio will stop scanning and will resume only after the signal disappears.
1. To select the desired type of scan, enter the radio menu and follow these steps: **MENU**→**FUNC MENU** → **SCM**
 2. Select the desired option.
 3. To start scanning press **P6** in menu 1 or the control associated to the **SCA** function.
 4. To invert the scan direction rotate the **main knob**.
 5. To stop scanning press any key on the front panel or **PTT**.

Adding a channel to the scan list

1. Select the channel you want to add to the list.
2. Keep pressed for 2 seconds **P6** in menu 1 or the control associated to the **SCA** function.
3. The display will show **SKP: ADD** in the lower part and letter **S** will appear above the channel (or frequency).

Deleting a channel from the scan list

1. Select the channel you want to delete from the scan list.
2. Keep pressed for 2 seconds **P6** in menu 1 or the control associated to the **SCA** function.
3. The display will show **SKP: DEL** in the lower part and letter **S** will disappear.

Scan resume time

In **TI** scan mode it is possible to change the scan resume time.

This time goes from a minimum of 5s up to 30s.

1. Enter the radio menu della radio and follow this procedure: **MENU**→**FUNC MENU**→**SCRT**
2. Press the **main knob** to enter the options
3. Rotate the knob to select the desired time
4. Confirm by pushing the knob.

Dual Watch function

M-30 allows to monitor two channels at the same time.

1. Select the first channel to monitor and then press **P1** in menu 2 or the key associated to **DW** function.
2. Now select the second channel to monitor and press again **P1** in menu 2 or the key associated to **DW** function.
3. The dual watch function is active.
4. When a signal is detected, the radio will stop monitoring on the two channels and will resume after the signal is no longer heard.

Noise Blanker activation

The Noise Blanker feature allows to reduce noises and interferences, for example the most well known is the car ignition noise.

1. To enable the Noise Blanker press **P5** in menu 2 or the button assigned to **NB** function.
2. The display will show **NB: OFF** or **NB: ON** depending on the Noise Blanker activation or deactivation.
3. Confirm your selection by pushing the **main knob**.

RF-Gain

In case of very strong signals, it is possible to enable the RF-Gain.

1. To enable the RF-Gain press **P2** in menu 1 or the button assigned to **RFG** function. Everytime this button is pushed the gain level will increase. The following levels are available: OFF, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, AU.
2. Confirm by pushing the **main knob**.

Roger Beep

When this function is enabled, the radio will emit an audio tone everytime the transmission is finished.

You can choose amongst 5 different audio tones that can be modified through the optional programming software.

1. To activate the Roger Beep enter into the menu and follow this procedure:
MENU→FUNC MENU→ROG
2. It is possible to choose amongst the following options: OFF, 1, 2, 3, 4, 5.
3. Press the **main knob** to confirm the selection.

Voice enhancer

This feature allows to enhance the voice tones and so to improve the audio, which will be more comfortable to listen to, especially for a long time.

1. To activate it press **P3** in menu 2 or the control associated to **HIC** function.
HIC: OFF. The voice enhancer will be adjusted to the standard level
HIC: ON. The audio will be adjusted to enhance the low tones
2. Press the **main knob** to confirm the selection.

Emergency channels

M-30 allows to immediately select the emergency channels 9 and 19.

1. Press **P3** in menu 1 or the key assigned to **EMG** function. Everytime this button is pressed you will select the emergency channels or return to the latest channel in use.
2. Press the **main knob** as confirmation.

SWR adjustment

This feature allows to adjust the SWR meter on M-30 so that while transmitting the display will indicate the correct SWR value. M-30 is adjusted by default on the central frequency.

It is also possible to make a new adjustment (in this case it is required a 50 Ohm dummy load, optional).

1. Enter the radio menu and proceed with the following steps: **MENU**→**FUNC MENU**→**SWR**
2. Press the **main knob** to start the adjustment.
3. Be sure that M-30 is connected to a 50 Ohm dummy load and confirm by pushing the **main knob**.

Other functions

Setting the priority channel

1. Select the channel you want to set as priority.
2. Keep pressed for 3 seconds the **★** button on the microphone to make this setting.
3. So now to select the priority channel press **★** on the mike.

Enabling/disabling the keypad tones

1. Enter the radio menu and follow these steps: **MENU**→**FUNC MENU**→**BEEP**
2. Press the **main knob** to look through the options
3. Rotate the knob to select **ON** (keypad beeps enabled) or **OFF** (disabled).
4. Press the **main knob** to confirm your selection.

Time Out Timer

The time out timer (TOT) automatically switches the radio in reception mode if you talk for too long, after a pre-set time that can change from 1 minute up to 30 minutes.

Before stopping the transmission, M-30 emits an acoustic alarm to warn you.

This function is also useful to prevent an overheating of the equipment.

We suggest you keeping the TOT enabled.

TOT can be adjusted also from the radio menu:

1. Access the radio menu and follow this procedure: **MENU**→**FUNC MENU**→**TOT**
2. Set the desired time and confirm by pushing the **main knob**.

Setting the level of the display backlight

1. Enter the radio menu and follow this procedure: **MENU**→**FUNC MENU**→**DIM**
2. Set the desired level and confirm by pushing the **main knob**.
3. The levels available are 3: 1 is the least bright, while 3 is the brightest.

Automatic turning on

You can set the automatic turning on of the radio when the vehicle is switched on.

1. Enter the radio menu and follow this path: **MENU**→**Utilities FUNC MENU**→**AOP**
2. Set the desired option and push the knob for confirmation.

Menu of the radio

M-30 is supplied with 3 menu; it is possible to use all of them or enable only some.

Enter the radio menu and follow these steps:

1. **MENU**→**Utilities FUNC MENU**→**KEYs**
2. Choose amongst the following options:
1/2/3, to enable all menu,
1/2, to enable menu 1 and 2,
2/3, to enable menu 2 and 3,
1/3, to enable 1 and 3.
3. Select the desired option and confirm by pushing the **main knob**.

Reset

1. Enter the radio menu and follow this path: **MENU**→**FUNC MENU**→**RST**
2. Select one of these options:
OPT, to make a reset of the settings only; it won't reset the memories.
ALL, to make a complete reset: settings and memories.
3. Select the desired setting and confirm by pushing the knob.

Troubleshooting

PROBLEM

The radio does not turn on

SOLUTION

Power supply cable disconnected or defective.
Check its status.

Fuse broken. Check the status of the fuses in the radio and in your vehicle.

The keyboard does not work

The Keypad lock is activated

Technical specifications

Channels	see frequency band chart
Frequency band****	26.565-27.99125 MHz FM (RX/TX) 26.965-27.405 MHz AM (RX/TX)
Power supply	12/24V
Current consumption	2A
Operating temperature	-10°C to + 55°C
Antenna connector	UHF, SO239
Output power	4W
Modulation	A3E (AM), F3E (FM),
Max frequency deviation (FM)	≤1,9KHz
Spurious emissions	< -54dBm
Adjacent channel power	< 20 uW
Frequency stability	±5.0 ppm
Rx sensitivity (@12dB SINAD)	< 1uV
Audio output power	≥ 3W (8 Ohm)
Adjacent channel rejection	better than 60 dB
Frequency response	300-3000Hz
Dimensions	120x38x160 (LxHxD)
Weight (mike included)	820g

**** covering all approved EU frequency bands

Specifications are subject to change without notice.

