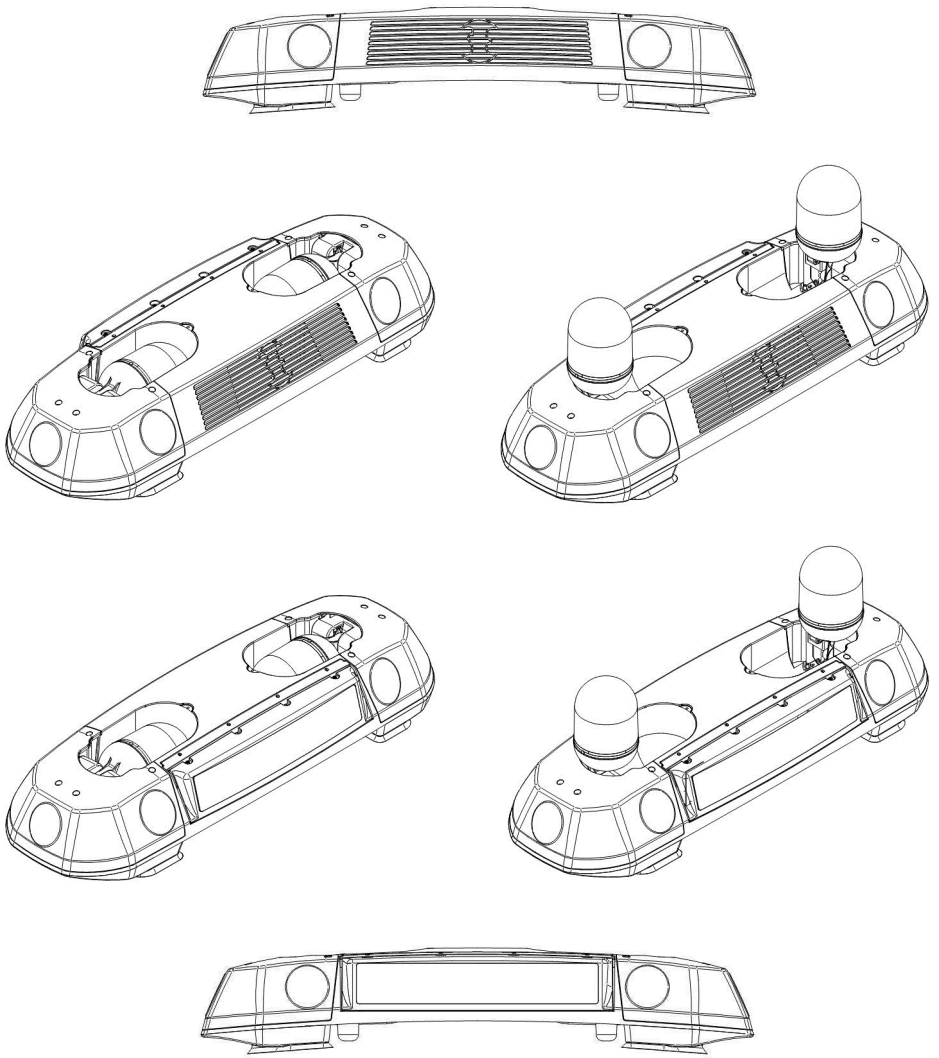
SIRENA NEW COMPACT IP 55

INSTALLATION AND APPLICATION INSTRUCTIONS



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01/2015 - Ref. 0129024

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GUARANTEE AND RECOMMENDATIONS

New Compact is made with high-quality materials and components according to the most recent production standards and strict technical specifications.
This product identified by the serial number stated below has undergone successfully all the mechanical, electrical and physical tests necessary to assure excellent reliability and perfect functioning of the product.
In order to maintain the above mentioned qualities the following recommendations must be strictly observed:

To install New Compact follow carefully the instructions in this manual.

Use ORIGINAL SIRENA spare parts ONLY.

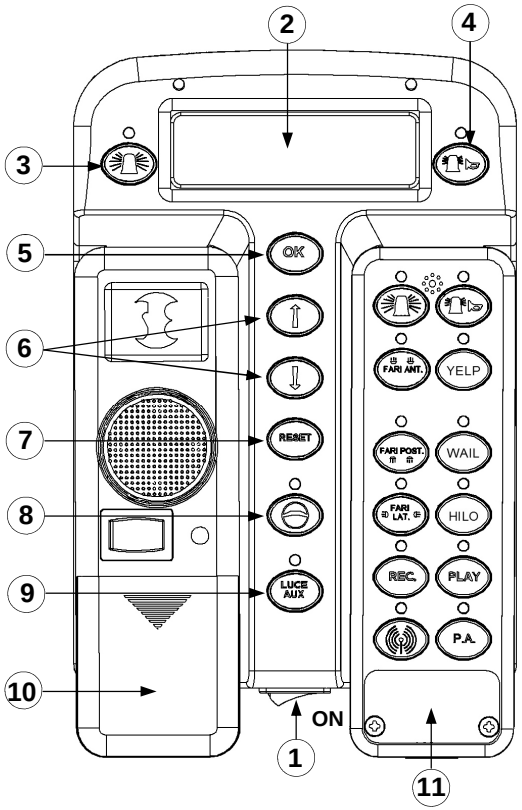
To clean New Compact, made of polycarbonate, use water and mild soap only.
Certain detergents and, in particular, greasy and oily substances can deteriorate the mechanical characteristics of the materials.

For any assistance required please state the serial number shown below that corresponds to the file kept in SIRENA containing information relating to the characteristics and tests of that particular product.

New Compact TYPE: **SERIAL NO.:**

DATE:

Functions and programming the console panel



1. ON-OFF switch Console panel and CROSSBAR

2. Display

3. ON-OFF Flash key

4. Flash + Siren ON key

5. The OK key confirms the function or the message chosen.

6. The UP and DOWN arrow keys allow the scrolling of the messages and EDITING of the non-standard messages

7. RESET display key (to cancel the message from the display)

8. PULSE key (activates a series of sounds emitted by the horn).

9. ON-OFF key: auxiliary light

10. RCM radio remote control

11. TCE remote control

PROCEDURE TO SEND MESSAGE

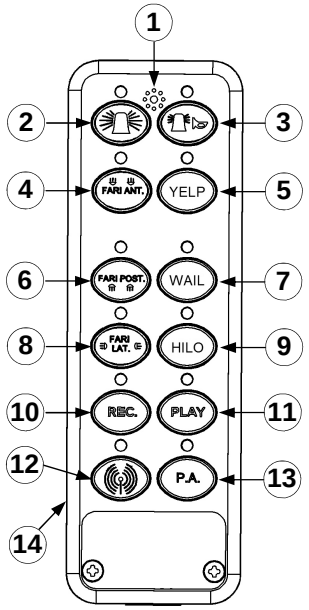
A - Push the button ON - OFF (1) (wait for OK on display (2))

B - Push the ARROWS (6) to select one of the following messages :

1. **SLOW DOWN**
2. **FOG**
3. **TRAFFIC JAM**
4. **ACCIDENT**
5. **STOP POLICE**
6. **PULL OVER - RIGHT**
7. **PULL OVER - LEFT**
8. **STAY INSIDE CAR**
9. **COMPULSORY DIVERSION**
10. **SLOW MOVING TRAFFIC**
11. **CHANGE LANE**
12. **DOCTOR REQUIRED**
13. **SPEED CONTROL**
14. **FOG MAX SPEED 50**
15. **RAIN MAX SPEED 110**
16. **SNOW MAX SPEED 90**
17. **SNOW REDUCE SPEED**
18. **SNOW CHAINS TIRES REQUIRED**
19. **SNOW CHAINS TIRES CONTROL**
20. *******.....*******

C - Push OK (5) to confirm and send the message.

TCE Remote Control Functions



1. P.A. microphone

2. Flash light key

3. Flash + Siren ON key

4. Front spotlights ON key

5. YELP Sound ON Key

6. Rear spotlights ON key

7. WAIL Sound ON Key

8. Side spotlights ON key
By pressing the key once, the left spotlight comes ON. On pressing the key again, the right spotlight comes ON and the left one is switched off. The third time the key is pressed, both spotlights come ON and the fourth time the key is pressed both spotlights are switched OFF.

9. HILO Sound ON Key

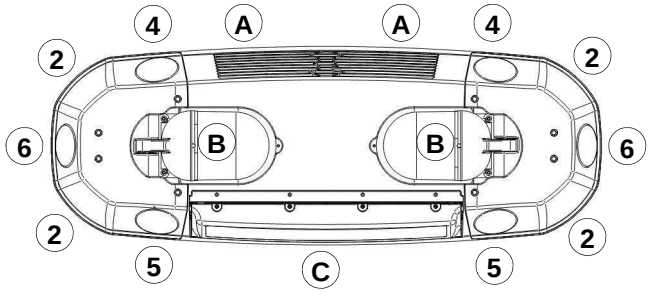
10. REC. key. By pressing this key and speaking into the microphone at the same time it is possible to record a message lasting 20 seconds (1) .

11. PLAY key, By pressing this key for less than 3 seconds the message is replayed once only; if the key is pressed for more than 3 seconds the message is replayed in a continuous cycle - LOOP. The message is emitted from the loudspeakers fitted in the crossbar.

12. Radio ON key. The loudspeaker fitted in the crossbar allows the messages to be heard outside the vehicle.

13. P.A. key (Public address) – by pressing and holding this key the sound from the microphone is amplified

14. Loudspeaker volume regulator Radio recorded messages - P.A.



A. Loudspeaker for Public Address of the recorded messages and communication by radio.

B. Depth spotlight radio remote controlled or if available video recorder.

C. Display

Quick guide to programming the console panel

Procedure to record and transmit messages to the display

1) To switch the console panel **ON** press the ↓ key and hold.

2) Select the no. of the new message with the ↑ ↓ keys.

3) Press the **OK** key **.**

4) If the message selected already contains characters they must be cancelled by pressing the ↑ key and holding until all the characters have been cancelled. The new message can then be written.

5) Select the required characters with the↑ ↓keys and for each character press **OK.**

6) At the end of the first word (W1) press the **OK** key and hold to proceed to (W2).

7) Write the second word (W2), see point 5, then press the **OK** key and hold to proceed to (W3 and W4) and press again the **OK** key to conclude. The phrase **EDIT MESSAGGI** will appear and a new message can then be inserted starting from point 2.

8) To insert empty spaces inside a word (W) press the ↓ key and hold.

9) To transmit newly recorded messages the **RESET** key must be pressed beforehand. The message can then be selected with the ↑ ↓ keys and they are transmitted by pressing the **OK** key.

Display Interface functioning

Use the ARROW keys (6) to scroll the menu of the console panel functions and confirm the function required by pressing the OK key (5). (See page 3 - Programming and functions of the console panel).
The normal running mode of the console panel is inserted at the time it is switched ON.
(Mode Selection and Display Message)
To insert a **special mode** one of the function keys must be pressed and held. According to the function key pressed when it is switched ON the following modes are entered:

1. **Arrow Up** **= Select language**
2. **Arrow Down** **= Write message**
3. **Contemporarily Arrow Up and Arrow Down** **= Reset Messages Custom**

Selection Mode and Message Display

A welcome message will appear for a few seconds at the time the device is switched on.

After which the first line will show a series of points.

The second line will contain **"SEL MESS."** indicating the actual mode.
By pressing one of the arrow keys the second line will show the pre-recorded messages in sequence, followed by the ones to be defined. The number of the message will appear on the right. The four words of the message will alternate and the word number will appear on the left: "**W1" – "W2" – "W3" – "W4".**

Once the required message is found, press **OK** and the message is transferred to the display.
The first line will show the actual message on the display.
The number of the message will appear on the left-hand side of the display, while the right-hand side will show **"D1 – D2 – D3 – D4".** The words of the message will alternate and the word number will appear on the left.
The second line will show: SEL. MESS.
The sequence starts again.

Writing Mode of the Message (Arrow Downwards when ON)

Aperture:
The first line will be empty.
The second line contains **"EDIT MESS."**
By pressing one of the arrow keys, line 1 will show in sequence the recorded messages that can be edited. When the required message has been found press **OK** to proceed with the modification.

Line 1 now contains the text of the message (the first word of the message).
The left-hand side of the display will show the number of the message and the right-hand side the number of the word (from W1 to W4).
The second line will show a complete set of characters to compose the message in alphabetical order.
To move the indicator in the second line use the **Arrow** keys.
If the message has never been edited, it will be made up of a phrase to be completed and some points.
To insert the new text the existing text displayed must be cancelled.
To cancel the characters on the right press the **Arrow Up** key and hold.
The characters are cancelled from right to left and are inserted from left to right.
The character chosen for insertion is highlighted by the indicator in line 2.
The cancellation of the word in edit is obtained by pressing the **Reset Giornale** key.
A space is inserted by pressing and holding the **Arrow Down** key.
To start writing a message assign a character in the first free space of the message, see the character highlighted in line 2.
Confirm the character chosen by pressing the **OK** key**.**
To confirm a word press and hold the **OK** key.
The next word will appear in line 1 and the writing W1 at the right-end will change to W2, and so on. The procedure starts again.
If you don't want to modify a word, press and hold the **OK** key directly.
Confirm and record the message by pressing and holding for a while the **OK** key at the end of the edit of the fourth word, highlighted by W4.
The words and then the message is registered when the **OK** key is kept continuously pressed at any time during the edit.

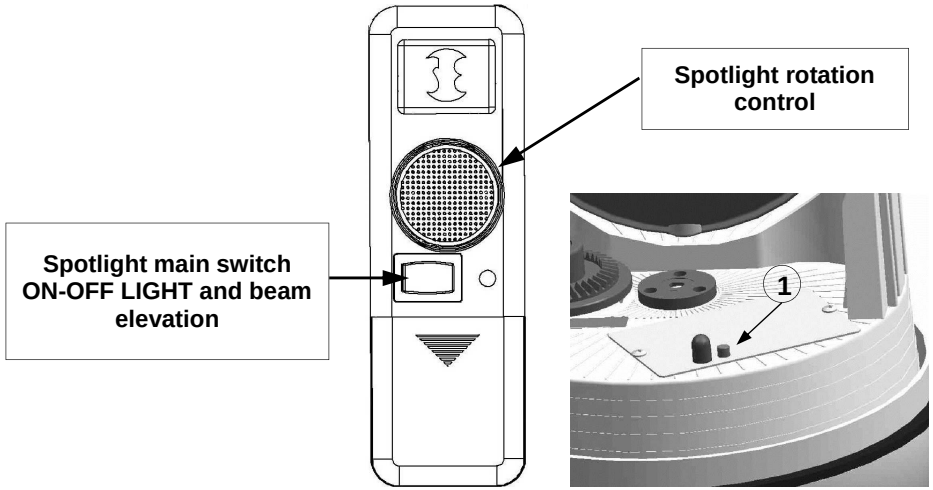
At this stage the display now returns to the aperture of the current mode (Writing Mode of the Message) and another message can be selected.
Press the **Reset Giornale** key or switch the device OFF and ON again to exit the Writing Mode of the Message and insert the Selection Mode and Message Display

Language Selection Mode (Arrow Upwards when ON)

Aperture:
The first line contains the current language
The second line contains **"SEL. LANG."**

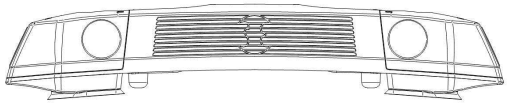
To visualize the sequence of the languages available press one of the **Arrow** keys.
The first line now contains the selected language.
By pressing the **OK** key a set of messages in the language chosen will appear and it is possible to return to the standard mode.
Please note that the messages to be selected are now in the language chosen.

RCM radio remote control functions & reprogramming

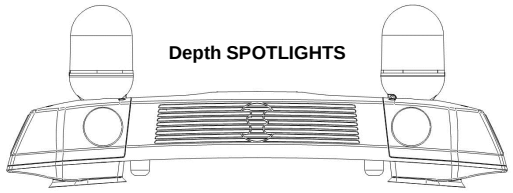


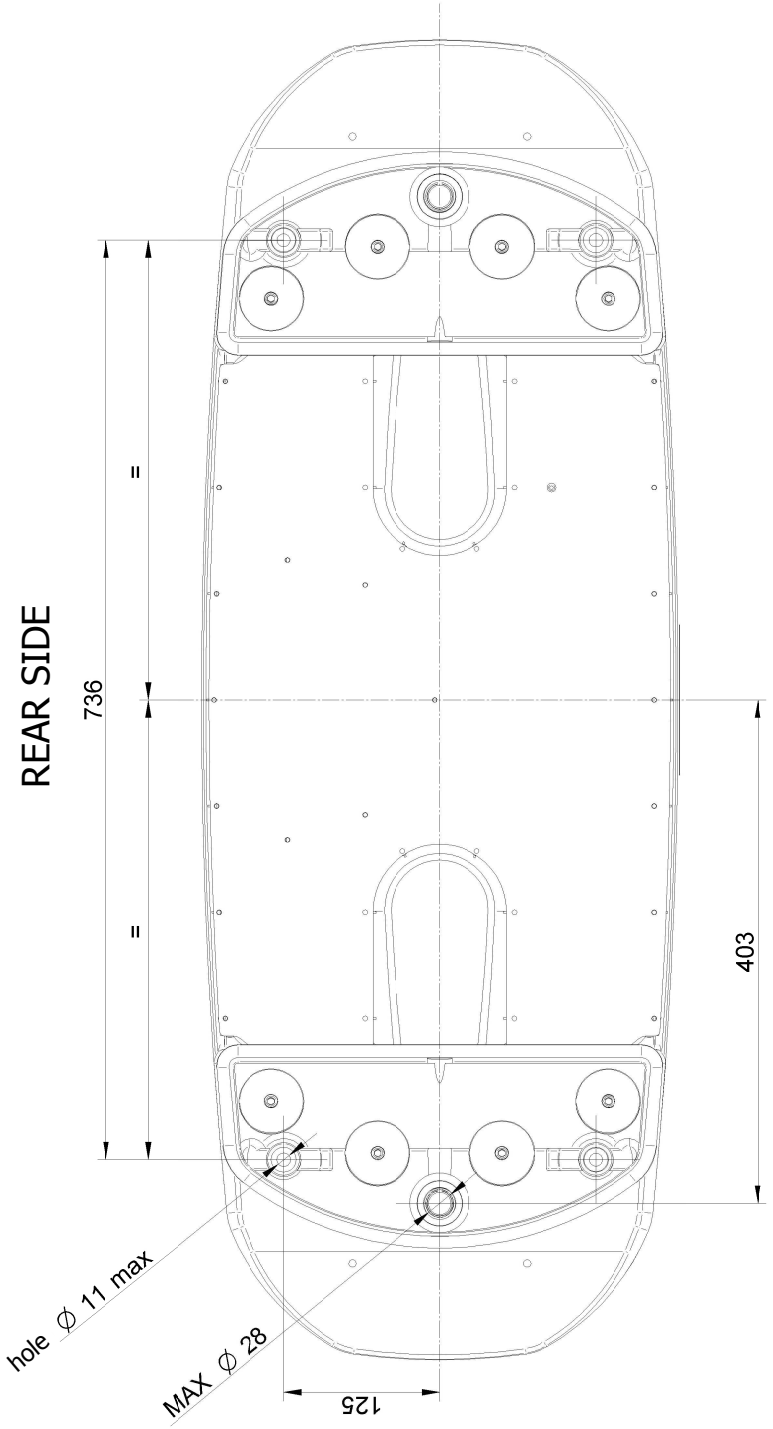
By pressing the main switch once, the spotlight is ON and ready to work. It is then possible to control and direct the light where required. Press the main switch a second time to turn the spotlight OFF. The spotlight will then return to the rest position.
If a duplicate radio remote control is required (FORC version) a spare remote control from SIRENA must be provided. Proceed with programming the new remote control.
Firstly, SWITCH the console ON. Raise the beam by hand and place it to the work position.
Remove the dome from the beam and press key (1); the LED on the beam will come ON. Press any key on the radio remote control and, when the LED on the beam go OFF, programming has been made. At this stage, put the dome and the protection gasket back on the beam and test the functions.
It is possible to programme up to 4 radio remote controls for one beam. It is also possible to control other beams with one radio remote control (only if they are within its range) either singly or contemporarily. The radio remote control must however be programmed for each beam as described above.

REST POSITION

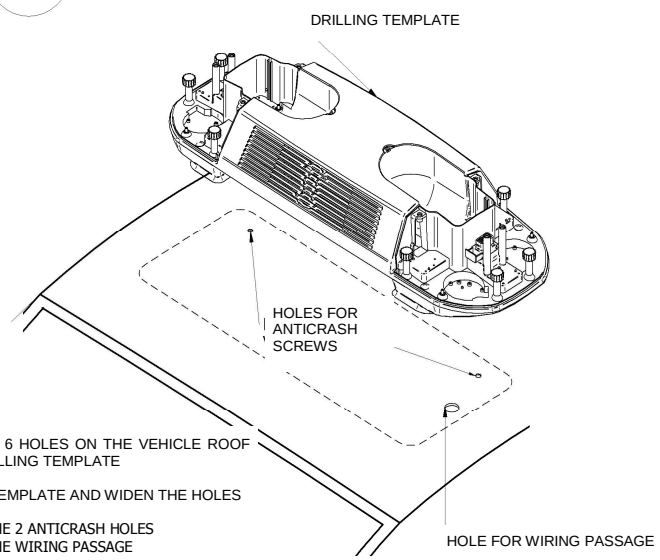


WORK POSITION





1



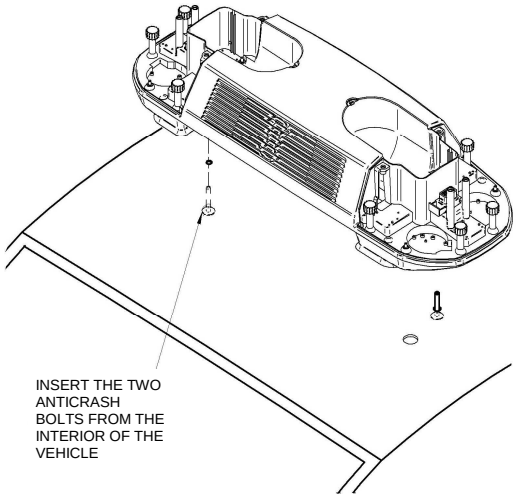
MAKE NO. 3 Ø 6 HOLES ON THE VEHICLE ROOF USING THE DRILLING TEMPLATE

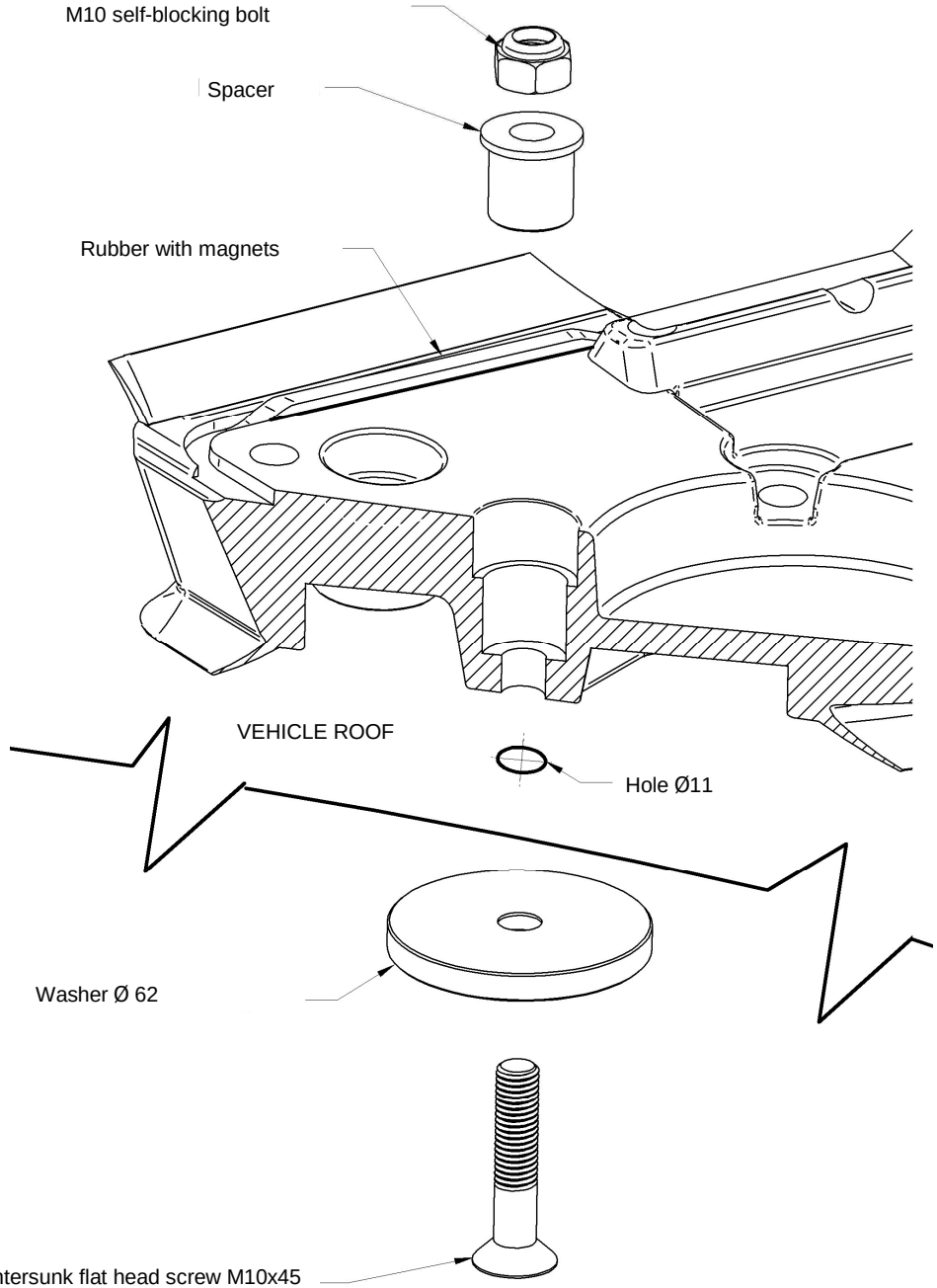
REMOVE THE TEMPLATE AND WIDEN THE HOLES

Ø 11 mm FOR THE 2 ANTICRASH HOLES
Ø 22 mm FOR THE WIRING PASSAGE

2

REMOVE THE TWO RUBBER BASES FROM THE TEMPLATE STRUCTURE AND REPLACE THEM WITH THE 2 MAGNETIC RUBBER BASES

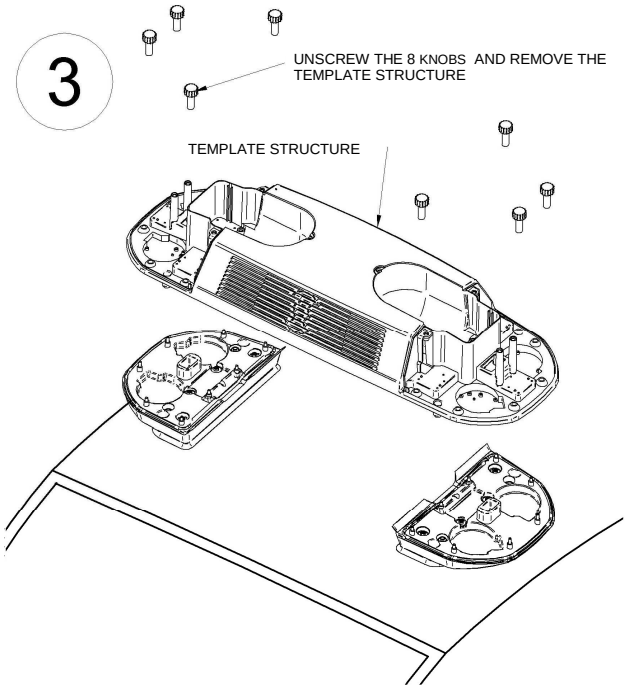




3

UNSCREW THE 8 KNOBS AND REMOVE THE TEMPLATE STRUCTURE

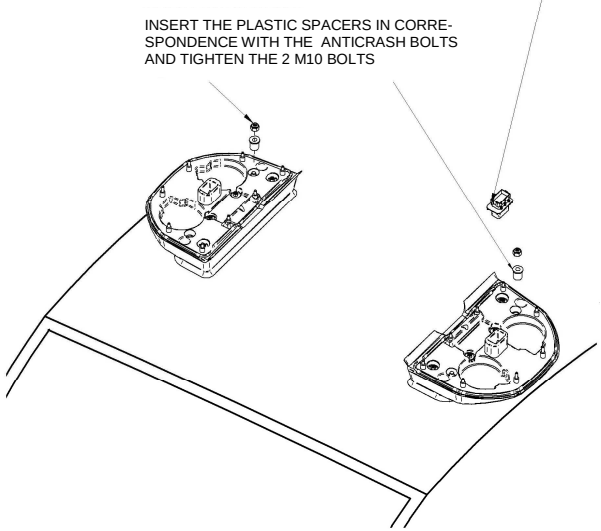
TEMPLATE STRUCTURE



4

INSERT THE WIRED CONNECTOR IN THE APPROPRIATE SPACE

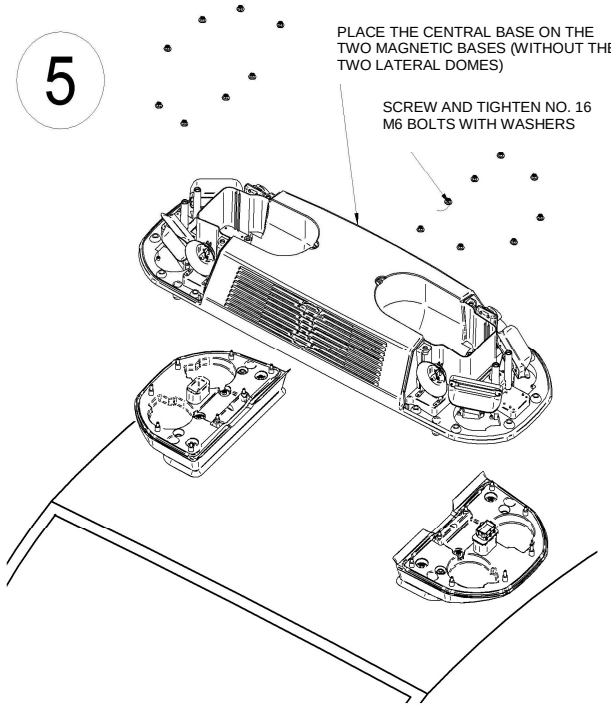
INSERT THE PLASTIC SPACERS IN CORRE-SPONDENCE WITH THE ANTICRASH BOLTS AND TIGHTEN THE 2 M10 BOLTS



5

PLACE THE CENTRAL BASE ON THE TWO MAGNETIC BASES (WITHOUT THE TWO LATERAL DOMES)

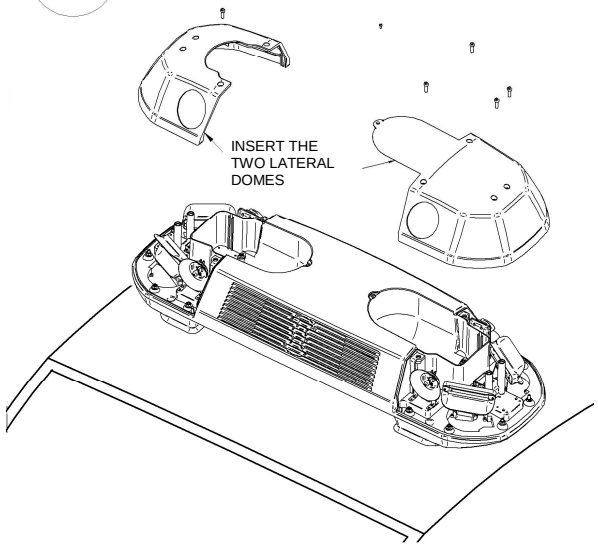
SCREW AND TIGHTEN NO. 16 M6 BOLTS WITH WASHERS



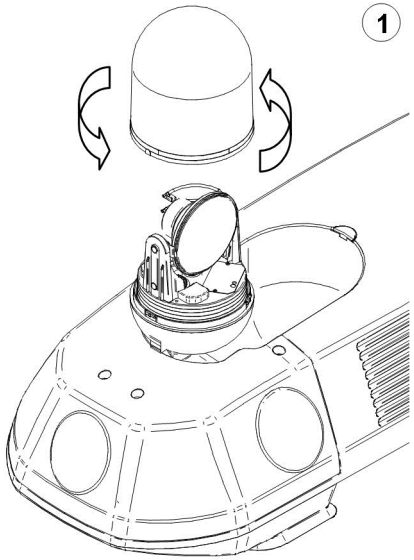
6

SCREW AND TIGHTEN NO. 8 CROSS HEAD SCREWS M6X20 ce AND NO. 8 NYLON WASHERS

INSERT THE TWO LATERAL DOMES

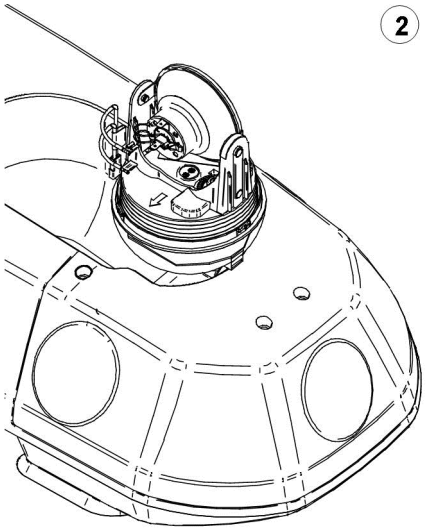


Maintenance and replacement of the bulbs and light assemblies

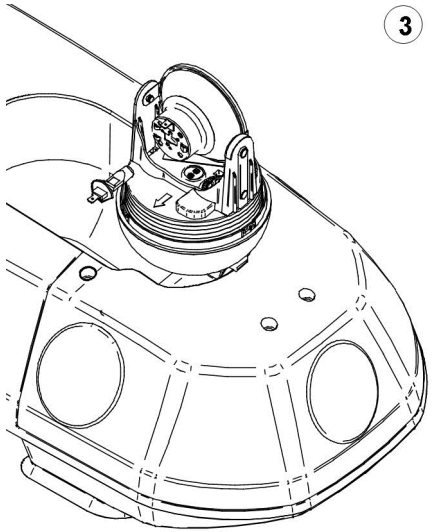


Replacement of the depth spotlight H1 bulb

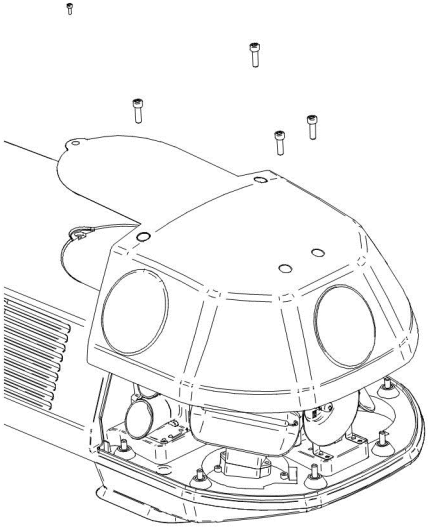
Place the spotlight in the work position using the RCM remote control.
Unscrew the dome anticlockwise and remove it from the base, as shown in fig. 1



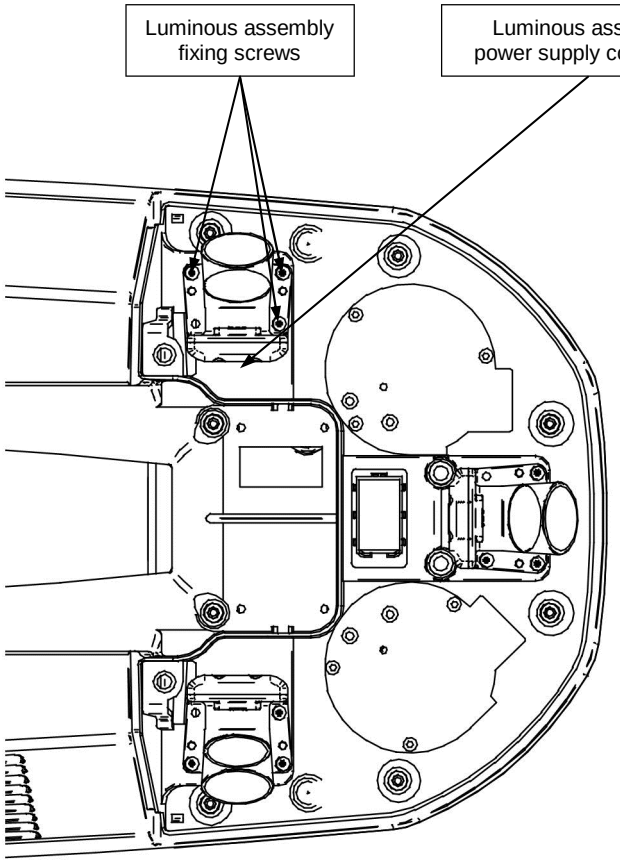
Disconnect the wires from the lamp contacts and insulate the fastons, as power is still present and could cause a short circuit .
Release then the lamp spring support and remove it from the reflector seat.



Do not touch the glass bulb with bare fingers when replacing the bulb
Refasten the spring support and reconnect the wires to the contacts.

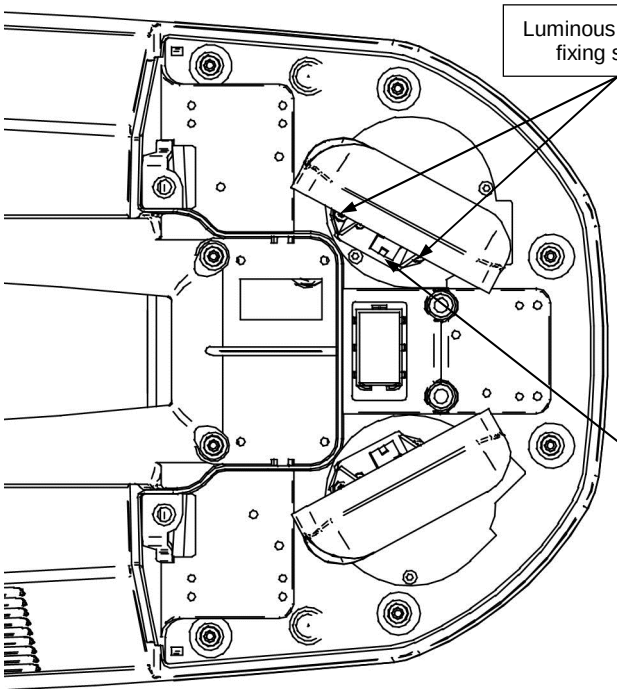


To access the luminous assembly unscrew the dome blocking screws and remove the dome upwards as shown in the drawing.



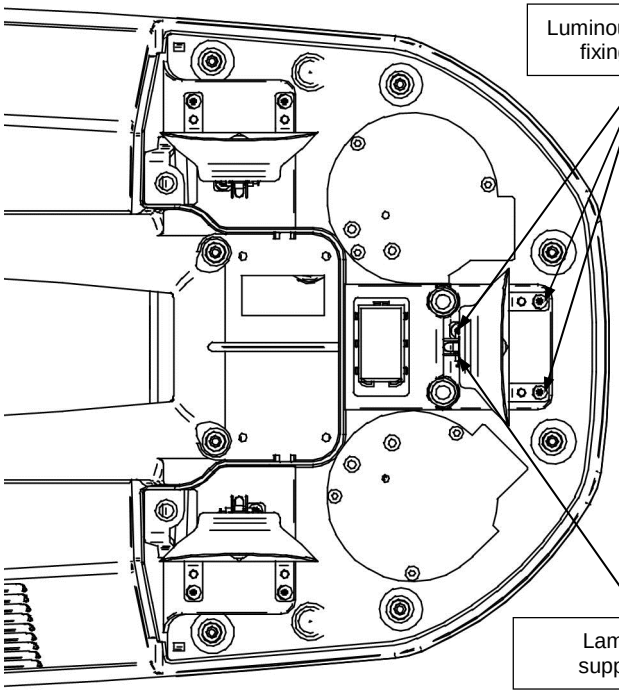
To replace the luminous assembly firstly unscrew the 3 fixing screws and disconnect the power supply connector.

To reassemble the new luminous assembly firstly connect first the power supply connector and fix it to the base with the 3 screws.



To replace the luminous assembly firstly disconnect the power supply connector and then unscrew the 2 fixing screws.

To reassemble the new luminous assembly firstly connect the power supply connector and fix it to the base with the 2 screws.



To replace the H3 bulb unscrew the 3 reflector fixing screws at the base, disconnect then the lamp connection faston and release the spring support.

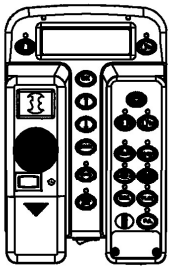
To reassemble the new lamp do not touch the glass bulb with bare fingers, refasten the spring support and connect the power supply faston. Fix the reflector to the base with the 3 fixing screws.

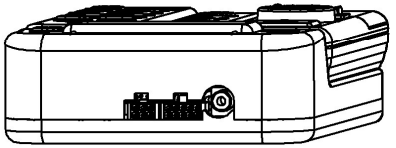
Technical details

SELECTED FUNCTION	*ELEMENTS INVOLVED IN THE FUNCTION*	*CURRENT ABSORPTION*
CONSOLE PANEL SWITCH-ON	Console panel + Switching card	215 mA
FLASH SWITCH-ON	Console panel + Switching card + Flash generator + 4 bulbs	11.8 A (max); 8.7 A (avg)
FLASH + SIREN SWITCH-ON	Console panel + Switching card + Flash generator (charge = 4 bulbs) + Siren generator (charge = no.2 50W 16 ohm units)	13.7 A (max); 12.2 A (avg)
LUMINOUS DISPLAY	Console panel + Switching card + Led display panel	1.5 A (5 with luminous message)
AMBER FLASHING LED SPOTLIGHTS	Console panel + Switching card + LED spotlights	1.1 A (max); 0.65 A (avg)
FRONTAL AND REAR HALOGEN SPOTLIGHTS	Console panel + Switching card + Spotlights	1 spotlight on: 4.6 A 2 spotlights on: 9.2 A 4 spotlights on: 18.5 A
P.A. MODULE	Console panel + Switching card + Functioning P.A. module	1.2 A
SWIVEL SEARCH BEAM	Console panel + Switching card + Swivel search beam	5.1 A

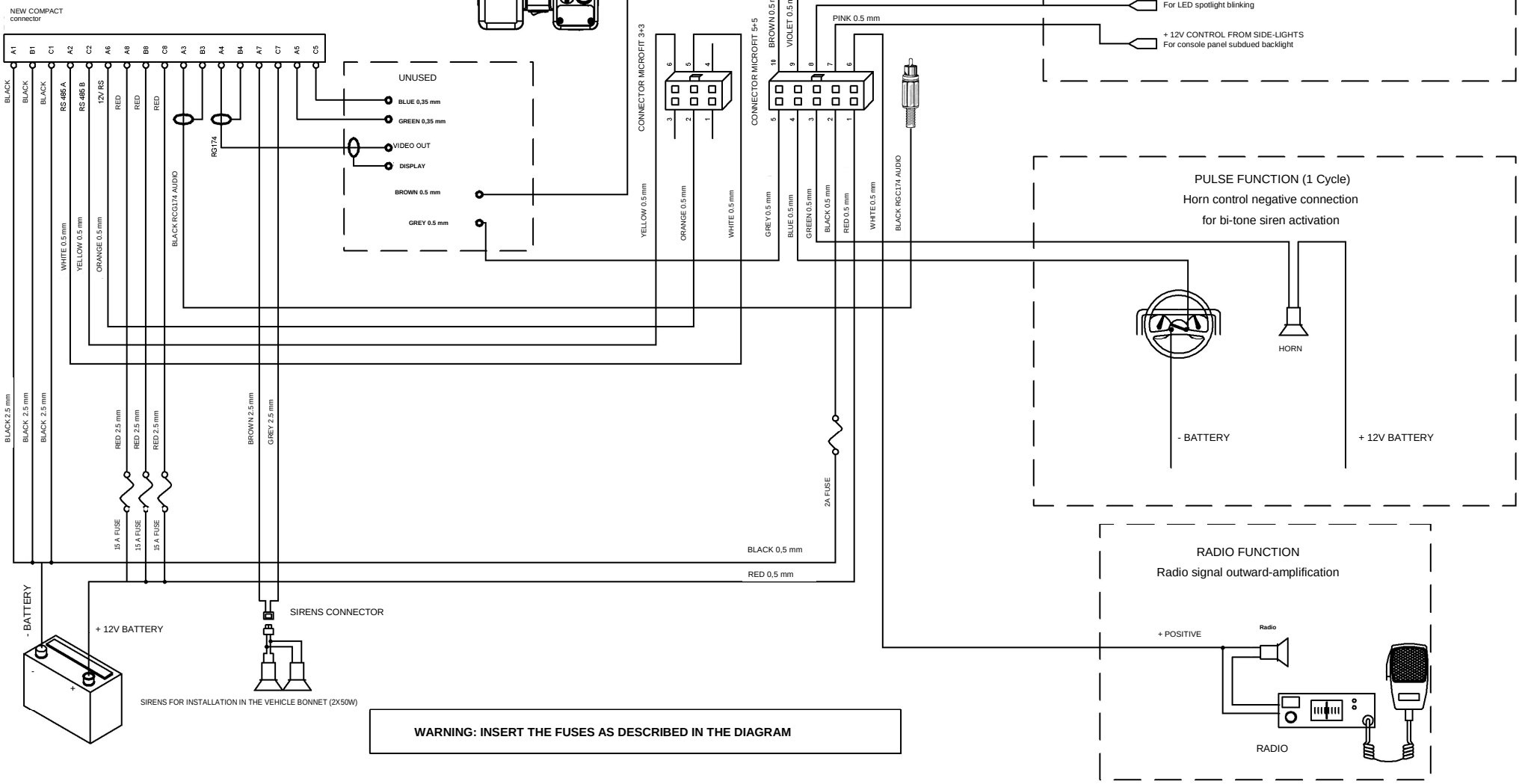
NEW COMPACT

CONSOLE PANEL
(Rear view)





OPTIONAL CONTROLS



WARNING: INSERT THE FUSES AS DESCRIBED IN THE DIAGRAM