



# UNICO DUAL PLUS INSTALLATION MANUAL



## READ THE MANUAL CAREFULLY BEFORE CONTACTING TECHNICAL SUPPORT

UNIVERSAL CANBUS / KBUS / RESISTIVE interface for recovering original car radio steering wheel controls and service outputs: ignition, lights, reverse gear, handbrake and speed signal (the presence of the outputs varies from vehicle to vehicle).

CAR compatibility extends to a large number of vehicles, viewable by framing the QR code

DATASHEET CONNECTION on page 2.

RADIO compatibility is for the brands: **CLARION - KENWOOD - JVC - ALPINE - PIONEER - SONY**

equipped with wire / JACK input for remote control, to radios with resistive steering wheel control learning, and to the car radios listed in the table viewable by framing the QR code RADIO LIST on page 4.

**ATTENTION PHONE BUTTONS ARE NOT MANAGED WITH PIONEER AND SONY RADIOS**

**For correct installation please follow the steps described in this document:**


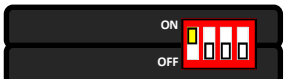
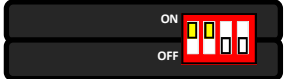


## STEP NUMBER 1: DIP SWITCHES SETTING

The module has 4 DIP SWITCHES.

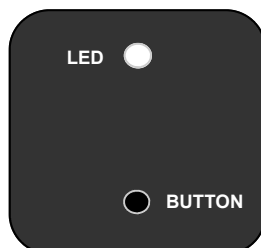
The first two are essential as they determine the operation of the module for CANBUS / KBUS or RESISTIVE vehicles.

The other two allow the functions described below.

### **CONFIGURE DIP SWITCHES WITH UNICO DUAL PLUS MODULE NOT POWERED**

CAN BUS / K-BUS PROTOCOL	ALL OFF	
RESISTIVE PROTOCOL	DIP 1 ON	
HYBRID PROFILE: STEERING WHEEL CONTROLS: RESISTIVE SERVICE OUTPUTS: CANBUS	DIP 1 and 2 ON	
OPTION MANAGEMENT	DIP 3 ON	
MODULE UPDATE	DIP 4 ON	

### **BY USING DIP SWITCHES 3 or 4 ONCE THE OPERATION IS COMPLETED RETURN THEM TO OFF**



## WARRANTY

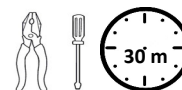
**THIS PRODUCT IS COVERED BY TWO-YEAR GUARANTEE FOR ANY MANUFACTURING TROUBLES.  
THE WARRANTY IS VALID IF ACCOMPANIED BY THE INVOICE OF PURCHASE**

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# UNICO DUAL PLUS INSTALLATION MANUAL



## STEP NUMBER 2: CONNECTIONS

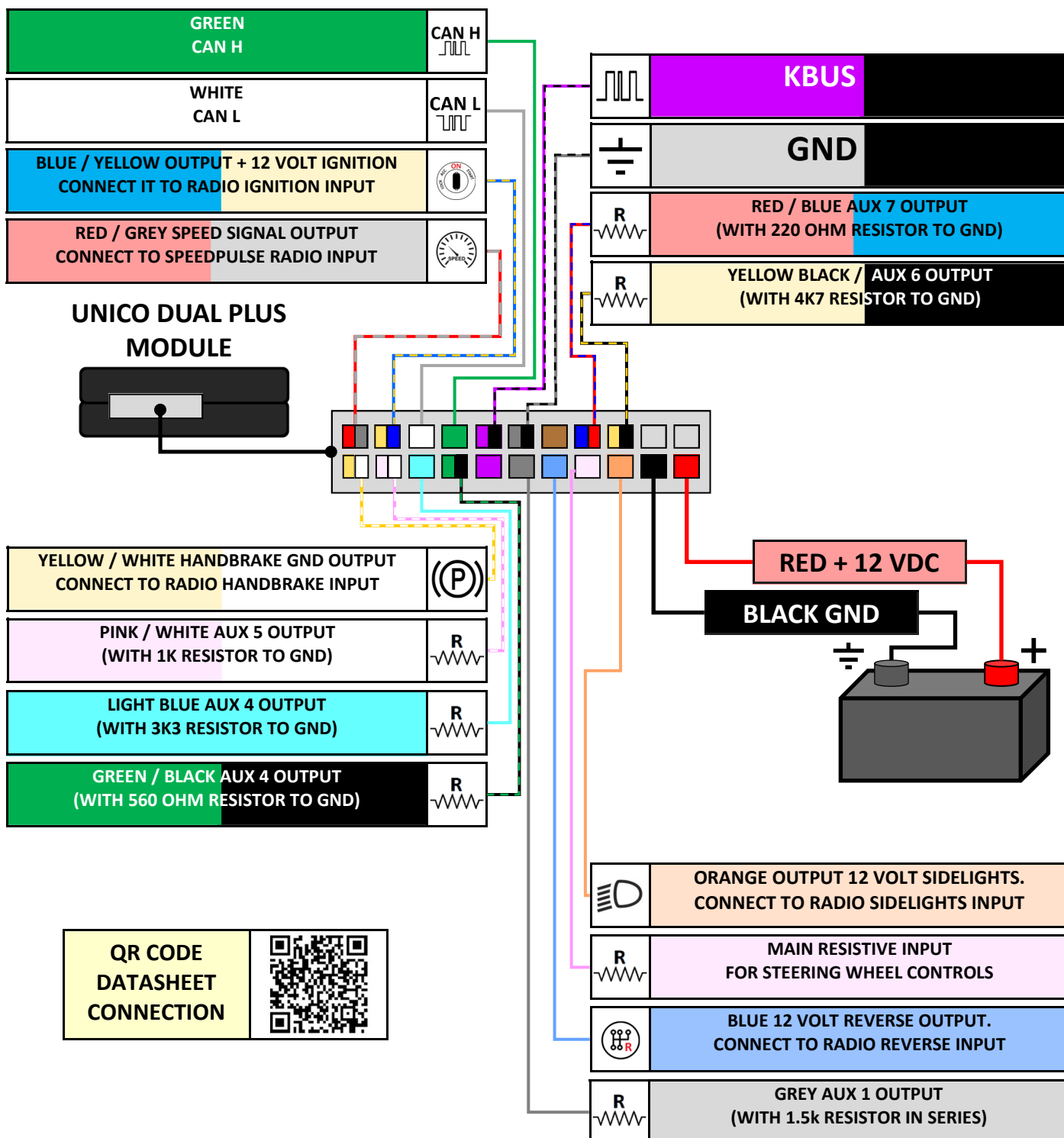


### WARNING!

MANDATORY CONNECTIONS ARE:

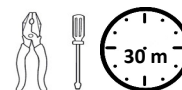
RED TO +12 VOLTS    BLACK TO GND

GREEN TO VEHICLE CAN H    WHITE TO VEHICLE CAN L





# UNICO DUAL PLUS INSTALLATION MANUAL



## STEP NUMBER 3.1: IF THE CAR IS RESISTIVE

With RESISTIVE vehicles, once the connections have been made, follow the steps described below to memorize the buttons present up to a maximum of 11 functions, listed from 1 to 11 in the RADIO table below (for the complete RADIO table use the QR CODE on page 4).



### WARNING DIP SWITCH 1 MUST BE ON



**EACH PRESS OF THE BUTTON ON THE STEERING WHEEL LIGHTS UP THE MODULE LED IN RED**

1	PRESS VOLUME — ON THE STEERING WHEEL
2	PRESS VOLUME + ON THE STEERING WHEEL
3	PRESS SEEK — ON THE STEERING WHEEL
4	PRESS SEEK + ON THE STEERING WHEEL
5	PRESS MODE ON THE STEERING WHEEL
6	PRESS MUTE ON THE STEERING WHEEL
7	PRESS THE BUTTON RELATING TO THE CHOSEN RADIO FUNCTION OR TO SKIP THE FUNCTION PRESS THE MODULE BUTTON 1 TIME
8	PRESS THE BUTTON RELATING TO THE CHOSEN RADIO FUNCTION OR TO SKIP THE FUNCTION PRESS THE MODULE BUTTON 1 TIME
9	PRESS THE BUTTON RELATING TO THE CHOSEN RADIO FUNCTION OR TO SKIP THE FUNCTION PRESS THE MODULE BUTTON 1 TIME
10	PRESS THE BUTTON RELATING TO THE CHOSEN RADIO FUNCTION OR TO SKIP THE FUNCTION PRESS THE MODULE BUTTON 1 TIME
11	PRESS THE BUTTON RELATING TO THE CHOSEN RADIO FUNCTION OR TO SKIP THE FUNCTION PRESS THE MODULE BUTTON 1 TIME

To end programming, press and hold VOLUME + until the module LED lights **YELLOW**. Release it, the LED flashes **GREEN**.

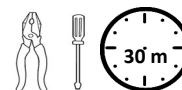
**Now select the radio of interest as described in step number 4.**

FUNCTION	CLARION	KENWOOD	JVC	PIONEER		SONY ALPINE IVE-W560BT IVE-W560BT-R		ALPINE
	WIRE AND IR	WIRE AND IR	WIRE AND IR	WIRE	IR	WIRE	IR	WIRE AND IR
FLASHES	1	2	3	4		5		6
1	VOLUME —							
2	VOLUME +							
3	SEEK —							
4	SEEK +							
5	FUNC	SOURCE	SOURCE	MODE	MODE	SOURCE	SOURCE	SOURCE
6	MUTE	MUTE	MUTE	MUTE	MUTE	MUTE	MUTE	MUTE
7	BAND	UP	UP	UP	BAND	UP	OFF	UP
8	DISP	VOICE	DOWN	DOWN	UP	DOWN	UP	DOWN
9	TA	PHONE ANSWER	PHONE ANSWER	X	DOWN	X	DOWN	PHONE ANSWER
10	INPUT SEL	PHONE CLOSE	PHONE CLOSE	X	FUNC	X	BAND	PHONE CLOSE

**ATTENTION! SONY WIRED PROFILE IS AVAILABLE ONLY ON REQUEST!**



# UNICO DUAL PLUS INSTALLATION MANUAL



## STEP NUMBER 3.2: IF THE CAR IS CANBUS

With CANBUS vehicles, the module auto-sets to the correct car profile.  
The LED will flash GREEN.

Now select the radio of interest as described in step number 4.

## STEP NUMBER 4: RADIO PROTOCOL SELECTION

Once the connections are made correctly, the module LED flashes GREEN once followed by a pause.  
GREEN LED means: Car protocol, **managed correctly**.

Now select the radio protocol following the logic described below (see radio table below or QR code).

1 GREEN LED flash indicates the first available radio: CLARION.

To increase the LED flashes, press the VOLUME + (PLUS) button on the steering wheel once.

The Volume — (MINUS) button decreases the number of flashes.

To confirm the choice, press the SEEK + (PLUS) button on the steering wheel, the LED lights up GREEN steadily.

### RADIO SELECTION: LED FLASHES LOGIC

UNITS	TENS	HUNDREDS

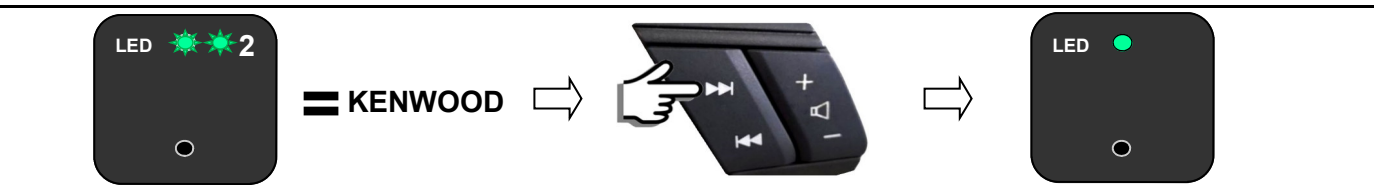
### RADIO SELECTION



QR CODE  
RADIO TABLE  
COMPLETE



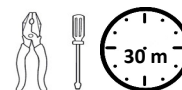
### RADIO SELECTION CONFIRMATION



	CLARION	KENWOOD	JVC	PIONEER		SONY		ALPINE
	WIRE AND IR	WIRE AND IR	WIRE AND IR	WIRE	IR	WIRE	IR	WIRE AND IR
FLASHES	1	2	3	4		5		6
	VOLUME —							
	VOLUME +							
	SEEK —							
	SEEK +							
	FUNC	SOURCE	SOURCE	MODE	MODE	SOURCE	SOURCE	SOURCE
	MUTE	MUTE	MUTE	MUTE	MUTE	MUTE	MUTE	MUTE
	BAND	UP	UP	UP	BAND	UP	OFF	UP
	DISP	VOICE	DOWN	DOWN	UP	DOWN	UP	DOWN
	TA	PHONE ANSWER	PHONE ANSWER	X	DOWN	X	DOWN	PHONE ANSWER
	INPUT SEL	PHONE CLOSE	PHONE CLOSE	X	FUNC	X	BAND	PHONE CLOSE



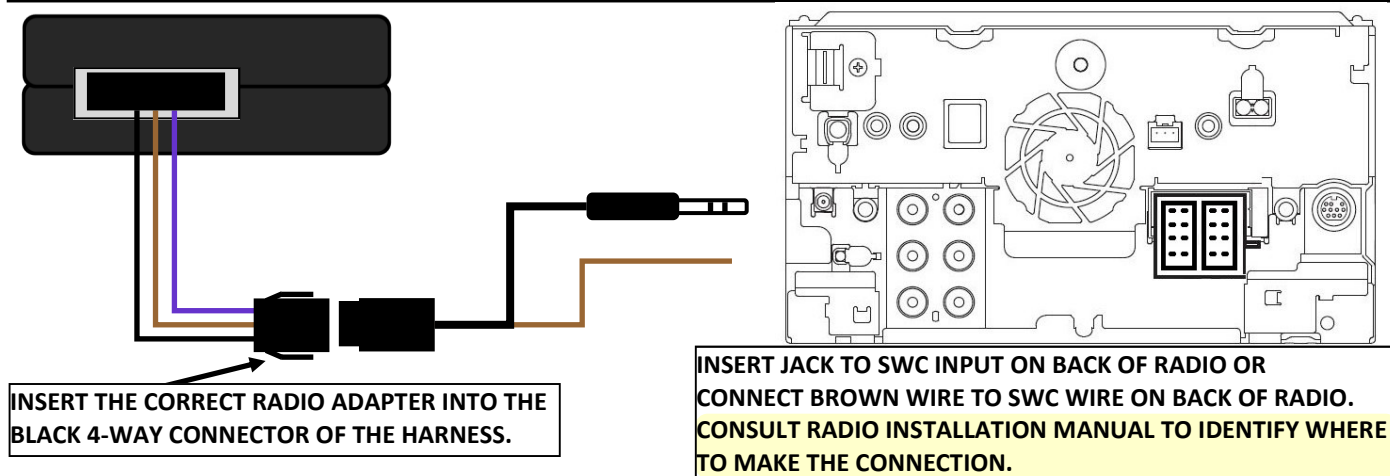
# UNICO DUAL PLUS INSTALLATION MANUAL



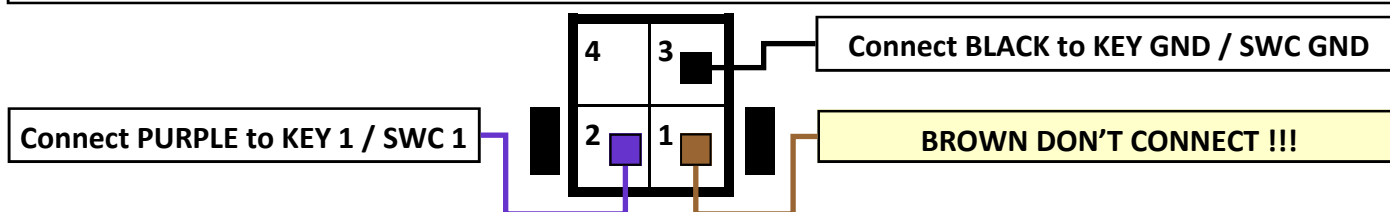
## STEP NUMBER 5: RADIO ADAPTER CONNECTION

ADAPTERS (THE PRESENCE OF THE ADAPTER DEPENDS ON THE PRODUCT CODE)	RADIO
CBL007UNAL22	ALPINE
CBL007UNBL12	BLAUPUNKT / BLAUPUNKT 2
CBL007UNJV12	CLARION / JVC
CBL007UNKE11	KENWOOD
CBL007UNPI12	PIONEER / SONY
CBL007UNPN21	PANASONIC

## CONNECT THE RADIO ADAPTER TO THE SWC INPUT OF THE RADIO



## CONNECTION DIAGRAM FOR RESISTIVE LEARNING RADIO.



**WARNING!!! IF THE RADIO HAS RESISTIVE LEARNING PROCEDURE FOR STEERING WHEEL CONTROLS SELECT THE PIONEER PROTOCOL NR. 4. MAKE THE CONNECTIONS DESCRIBED ABOVE!!!**

## ATTENTION!!!

**ONCE THE CONNECTIONS ARE COMPLETED, MEMORIZING THE BUTTONS ON THE STEERING WHEEL COMMANDS FOLLOWING THE INSTRUCTIONS IN THE RADIO MANUAL!!!**

## IMPORTANT!!!

For vehicles that do not have a long button press, it may be difficult to memorize the steering wheel controls on radios with resistive learning.

It is therefore necessary to increase the output time of the resistances (5 seconds) of Unico Dual Plus (only for the programming phase). Perform this procedure:

Press the RESET button on Unico Dual Plus 5 times, the interface will start to flash RED and GREEN.

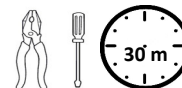
Now proceed with memorizing the buttons, waiting 5 seconds between each press.

A maximum of 6 steering wheel control buttons can be managed.

Perform a phase of switching the vehicle dashboard off and on, the Unico Dual Plus LED will return to FIXED GREEN with the normal operation of the resistive output restored.



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## INFORMATION



**UNICO DUAL PLUS ALLOWS TO SET DATE AND HOURS ON THE CAR COMPATIBLE CLUSTER, PLEASE FRAME THE QR CODE TO SEE THE PROCEDURE.**



### MODULE RESET

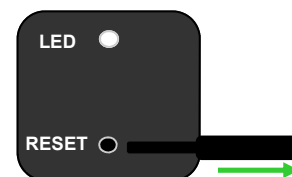


**RESET DOES NOT DELETE PREVIOUSLY CHANGED OPTIONS!!!**

**ONLY IF NECESSARY, RESET THE MODULE USING THE PLASTIC NAIL (SUPPLIED) AS DESCRIBED BELOW.**



**PRESS AND HOLD THE RESET BUTTON FOR 10 SECONDS, THE LED WILL TURN OFF. REMOVE THE PLASTIC NAIL. THE RESET IS DONE.**



## TROUBLESHOOTING



THE UNIT DOES NOT PERFORM ANY FUNCTION AND THE LED IS OFF.

CHECK POWER CONNECTION.

THE UNIT IS POWERED CORRECTLY, BUT IT DOES NOT PERFORM ANY FUNCTION AND THE LED FLASHES RED QUICKLY.

CHECK CANBUS CONNECTIONS.

THE UNIT IS POWERED CORRECTLY, THE CANBUS IS CONNECTED CORRECTLY, BUT IT DOES NOT PERFORM ANY FUNCTION AND THE LED FLASHES RED QUICKLY.

CANBUS SYNCHRONIZATION FAILS, CONTACT TECHNICAL SUPPORT.

THE UNIT IS POWERED CORRECTLY, BUT IT DOES NOT COMMUNICATE WITH THE K-BUS.

1. CHECK THAT THE WHITE WIRE OF THE HARNESS IS CONNECTED.

2. CALL TECHNICAL SUPPORT.

THE UNIT IS CORRECTLY CONNECTED, BUT DOES NOT HANDLE RESISTIVE LEARNING CORRECTLY.

CHECK THAT THE CONNECTIONS ARE CORRECT, REPEAT THE LEARNING PROCEDURE, CONTACT TECHNICAL SUPPORT.

THE UNIT, CORRECTLY CONNECTED, WITH THE GREEN LED LIT, DOES NOT CONTROL THE RADIO.

1. CHECK THAT THE RADIO ADAPTER IS CONNECTED TO THE RADIO.

2. RE-SELECT THE RADIO PROTOCOL.

## TECHNICAL CHARACTERISTICS

POWER SUPPLY	10/16 VDC
ABSORPTION AT REST	0,001 A
ABSORPTION WHEN WORKING	0,040 A
MAX CHARGE IGNITION OUTPUT	2,000 A
MAX CHARGE SIDELIGHTS / HANDBRAKE / REVERSE GEAR OUTPUT / SPEEDPULSE SIGNAL	0,040 A

## WARRANTY

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**READ THE MANUAL CAREFULLY BEFORE CONTACTING TECHNICAL SUPPORT.**

**CALL ONLY IF THE VEHICLE IS PRESENT  
AND WITH THE MODULE AT HAND**

**Technical Support: + 39 0141 - 947676**

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