

### Radio Asteroid

MODE E THIS MODE WORKS WHEN PHONES BUTTONS ARE AVAILABLE AND PUSHED.	ANSWER 	REFUSE 	VOICE	SRC 	Vol Buttons 	SEEK Buttons 
Answer	Answer (Short)					
Refuse		Refuse (Short)				
Vocal Call	Answer (Short)					
Higher volume Call / MP3					V+	
Lower volume Call / MP3					V-	
Enter Discretee MODE Exit Discretee MODE	Answer (Short)					
Close the Call		Refuse (Short)				
Next MP3 Track						S+ (Short)
Previous MP3 Track						S- (Short)
MP3 Play - Source selection				SRC		
Vocal music activation			Voice button			

## INSTALLATION MANUAL AND USE

### Steering Wheel Commands Adapter CAN BUS - KBUS & RESISTIVE protocol with PARROT MKi LINE and Asteroid radio

Rev. 2.13

This is a **UNIVERSAL** adapter module for connecting OEM steering wheel commands; its compatibility extends to a wide range of vehicles with **CAN BUS - KBUS** and **Resistive** protocol and with PARROT MKi line and Asteroid radios.

In fact the same interface can connect with a few simple operations both CAN BUS or KBUS or Resistive systems. Its functions are completely handled by a microprocessor capable of self-learning the protocol of the OEM steering wheel commands. The CAN BUS - KBUS programming is in auto-selection. Resistive programming is made by following a simple procedure which allows you to assign the functions handled by the SWC available.

#### DIP SWITCHES

The module has 4 dip switches to set before starting the installation.

CAR PROTOCOL RESISTIVE	DIP 1 ON
CAR PROTOCOL CAN BUS / K-BUS	DIP 1 OFF
OEM RADIO AVAILABLE (only for resistive)	DIP 2 ON
OEM RADIO <b>NOT</b> AVAILABLE (only for resistive)	DIP 2 OFF
EXTERNAL IGNITION (only for canbus)	DIP 3 ON
IGNITION FROM CAN BUS (only for canbus)	DIP 3 OFF
UPGRADE MODE ON	DIP 4 ON
UPGRADE MODE OFF	DIP 4 OFF



#### MOST USED SETTING

RESISTIVE PROTOCOL (with Asteroid radio or Aftermarket radio)	1 ON	
RESISTIVE PROTOCOL (with OEM radio)	1 ON 2 ON	
CAN BUS PROTOCOL	ALL OFF	

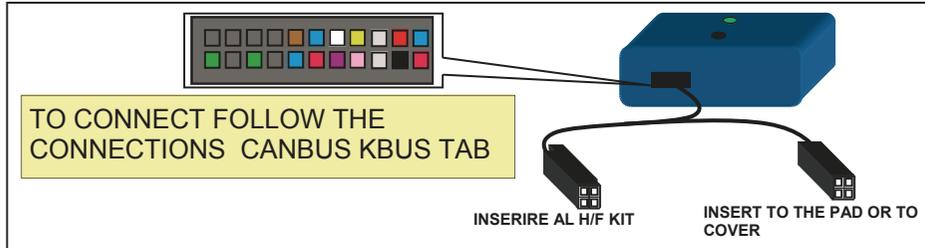


**SET THE DIP SWITCHES WITH THE UNIT  
NOT POWERED**



**ATTENTION!  
IN THE CASE OF INSTALLATION OF ASTEROID TABLET CUT  
THE GREEN-BLACK WIRE**

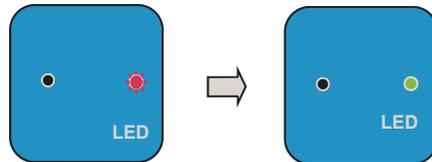
## CAN BUS - KBUS DIAGRAM



### CAN BUS - KBUS SELF-LEARNING AND FUNCTIONS

The selection of the protocol comes through **SELF-RECOGNITION**; after the connections are terminated by inserting the module to the connector, the unit will carry out in about one second, the synchronization indicated with **quick RED flashes** of the module's LED.

As soon as the synchronization is carried out, the vehicle's protocol is selected; this operation is confirmed by the lighting up of the **GREEN FIXED LIGHT** of the module's LED.



### TROUBLESHOOTING

*The unit does not work and the LED is switched off.*

Verify the power supply connections.

*The correctly powered unit does not work and the LED is switched off.*

Verify the CANBUS connections.

*The unit is correctly connected and the RED LED flashes quickly.*

The unit can't be synchronized with the CANBUS; contact Paser.

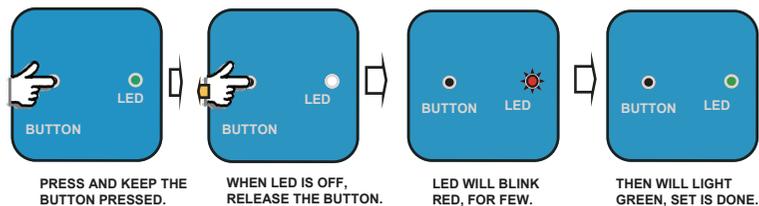
*The unit is correctly connected and the RED LED flashes in an irregular way.*

Verify the CANBUS connections.

*The unit is correctly connected and the RED LED is on.*

The unit has carried out the synchronization with the CANBUS but can't recognize the

**IF YOU WANT TO RE-INSTALL THE MODULE IN A NEW CAR, AFTER THE NEW INSTALLATION PLEASE RESET THE UNIT AS BELOW DESCRIBED.**

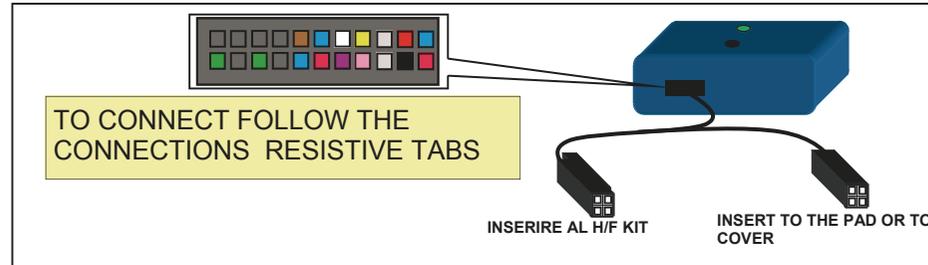


## Asteroid Radio

MODE B THIS MODE WORKS WHEN SRC BUTTON IS AVAILABLE AND PUSHED.	SRC Button	Volume Buttons	SEEK Buttons
		 	 
Answer			S+ (Short)
Refuse			S- (Short)
Higher volume Call / MP3		V+	
Lower volume Call / MP3		V-	
Enter Discretee MODE Exit Discretee MODE			S+ (Short)
Close the Call			S- (Short)
Next MP3 Track			S+ (Short)
Previous MP3 Track			S- (Short)
Play - Source selection	SRC (breve)		

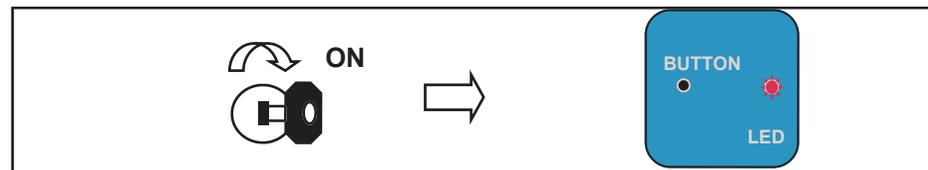
MODE C THIS MODE WORKS WHEN TEL BUTTON IS AVAILABLE AND PUSHED.	Tel Button	SRC Button	Vol Buttons	SEEK Buttons
			 	 
Answer	TEL (Short)			
Refuse				S- (Short)
Vocal call	TEL (Short)			
Higher volume Call / MP3			V+	
Lower volume Call / MP3			V-	
Enter Discretee MODE Exit Discretee MODE	TEL (Short)			
Close the Call				S- (Short)
Next MP3 Track				S+ (Short)
Previous MP3 Track				S- (Short)
Play - Source selection		SRC (Short)		

## RESISTIVE DIAGRAM

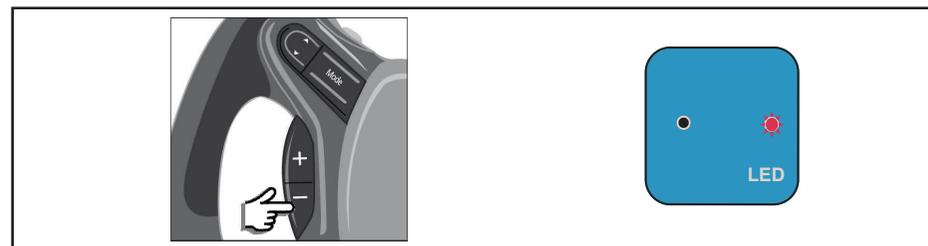


### LEARNING PROCEDURE

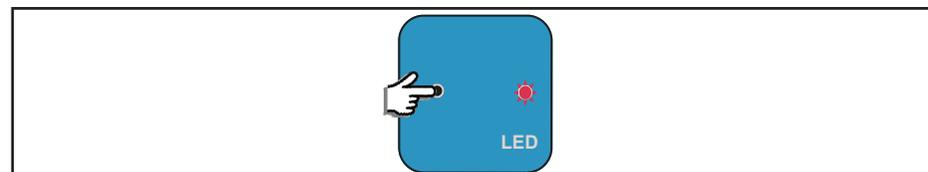
Made the links, switch on the ignition key to stoke up the module. The LED will briefly flash RED indicating that **NO BUTTON PRESSED** condition has been stored.



Now we need to assign control functions to each of the buttons/levers of the vehicle's steering wheel command. The allocation of functions follows the sequential logic described in table FUNCTIONS.(see next page) The first function available is VOLUME —. Each time you press a steering wheel button/lever, the module LED emits a short flash to indicate the successful storage of the function.

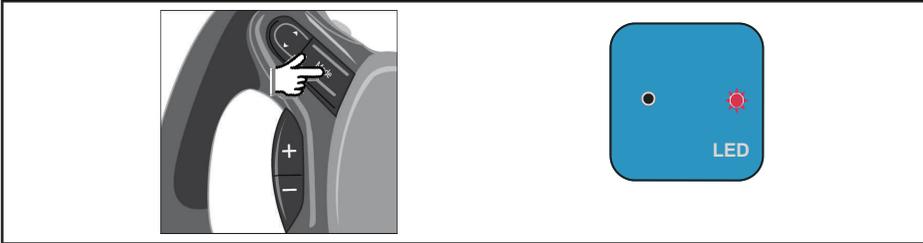


To skip a function simply press quickly the button the module(operation executable only if OEM radio is not installed).



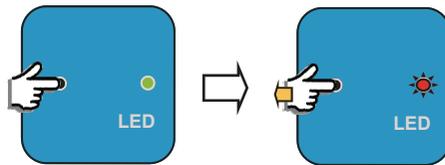
It is possible to manage up to 7 buttons/levers.  
If there are less than 7 buttons/levers on the steering wheel, it will be necessary to force the exit from the programming

To carry out this procedure, you only need to press and keep pressed the last one of the steering wheel commands memorized till **the LED lights GREEN.**



The procedure is finished  
If some trouble are found please make the RESET.

**To RESET the unit keep the button of the unit pressed till the LED starts blinking RED.**



FUNCTIONS	
1	VOLUME —
2	VOLUME +
3	SEEK —
4	SEEK +
5	SRC
6	PHONE ANSWER
7	PHONE CLOSE

## Asteroid Radio

MODE A THIS MODE WORKS WHEN SRC AND PHONES BUTTONS AREN'T AVAILABLE	Volume Buttons ⊕ ⊖	SEEK Buttons ⏪ ⏩
Answer		S+ (Short)
Refuse		S- (Short)
Higher volume Call / MP3	V+	
Lower volume Call / MP3	V-	
Enter Discrete MODE Exit Discrete MODE		S+ (Short)
Close the Call		S- (Short)
Next MP3 Track		S+ (Short)
Previous MP3 Track		S- (Short)
MP3 Play - Pause		SEQUENCE S- S+

### WARRANTY

THIS PRODUCT IS GUARANTEED FOR TWO YEARS AGAINST ANY MANUFACTURING DEFECT.  
PURCHASE INVOICE IS REQUIRED AS A VALIDITY OF THE GUARANTEE

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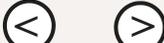
### MKi LINE

MODE D THIS MODE WORKS WHEN PHONES BUTTONS ARE AVAILABLE AND PUSHED.	ANSWER 	REFUSE 	SRC Button 	Vol Buttons 	SEEK Buttons 
Answer	Answer (Short)				
Refuse		Refuse (Short)			
Vocal Call	Answer (Short)				
Re-Dial Last Number	Answer (long)				
Higher volume Call / MP3				V+	
Lower volume Call / MP3				V-	
Enter Discrete MODE	Answer (Short)				
Exit Discrete MODE	Answer (Short)				
Close the Call		Refuse (Short)			
MENU selection					SEQUENCE S+S-S+S-
Scroll MENU up					S+ (Short)
Scroll MENU down					S- (Short)
Confirm MENU choice	Answer (Short)				
Next MP3 Track					S+ (Short)
Previous MP3 Track					S- (Short)
MP3 Play - Pause					SEQUENCE S- S+
Back MENU		Refuse (Short)			
Mute Mic					SEQUENCE S- S+

DELETE KIT MEMORY SEQUENCE V- V+ 5 TIMES (ONLY MKi 9000)

V = VOLUME  
S = SEEK  
SHORT = SHORT PRESS OF THE BUTTON  
LONG = LONG PRESS OF THE BUTTON  
SRC= SOURCE BUTTON  
ANSWER= ANSWER PHONE BUTTON  
REFUSE = REFUSE PHONE BUTTON

### MKi LINE

MODE A THIS MODE WORKS WHEN SRC AND PHONES BUTTONS AREN'T AVAILABLE	Volume Buttons 	SEEK Buttons 
Answer	V+ (short)	
Refuse	V- (short)	
Vocal Call	V+ (short) FOLLOWED BY V- (short)	IN MUSIC V+ (short)
Re-Dial Last Number	V+ (short) FOLLOWED BY V- (long)	IN MUSIC V+ (long)
Higher volume Call / MP3	V+ (short) FOLLOWED BY V- (short)	
Lower volume Call / MP3	V- (short) FOLLOWED BY V+ (short)	
Enter Discrete MODE	V+ (short)	
Exit Discrete MODE	V+ (short) FOLLOWED BY V- (short)	
Close the Call	V- (short)	
MENU selection		SEQUENCE S+S-S+S-
Scroll MENU up		S+ (short)
Scroll MENU down		S- (short)
Confirm MENU choice	V+ (short)	
Next MP3 Track		S+ (short)
Previous MP3 Track		S- (short)
MP3 Play - Pause		SEQUENCE S- S+
Back MENU	V- (short)	
Mute Mic		SEQUENCE S- S+

DELETE KIT MEMORY SEQUENCE V- V+ 5 TIMES (ONLY MKi 9000)

V = VOLUME  
S = SEEK  
SHORT = SHORT PRESS OF THE BUTTON  
LONG = LONG PRESS OF THE BUTTON  
SRC= SOURCE BUTTON

### MKi LINE

MODE B THIS MODE WORKS WHEN SRC BUTTON IS AVAILABLE AND PUSHED.	SRC Button 	Volume Buttons  	SEEK Buttons  
Answer	SRC (Short)		
Refuse	SRC (long)		
Vocal Call	Double SRC (Short)		
Re-Dial Last Number	SRC (long)		
Higher volume Call / MP3		V+	
Lower volume Call / MP3		V-	
Enter Discrete MODE	SRC (Short)		
Exit Discrete MODE	Double SRC (Short)		
Close the Call	SRC (long)		
MENU selection			SEQUENCE S+S-S+S-
Scroll MENU up			S+ (Short)
Scroll MENU down			S- (Short)
Confirm MENU choice	SRC (Short)		
Next MP3 Track			S+ (Short)
Previous MP3 Track			S- (Short)
MP3 Play - Pause			SEQUENCE S- S+
Back MENU	SRC (long)		
Mute Mic			SEQUENCE S- S+

DELETE KIT MEMORY SEQUENCE V- V+ 5 TIMES (ONLY MKi9000)  
V = VOLUME  
S = SEEK  
SHORT = SHORT PRESS OF THE BUTTON  
LONG = LONG PRESS OF THE BUTTON  
SRC= SOURCE BUTTON

### MKi LINE

MODE C THIS MODE WORKS WHEN TEL BUTTON IS AVAILABLE AND PUSHED.	Tel Button 	SRC Button 	Vol Buttons  	SEEK Buttons  
Answer	TEL (Short)			
Refuse	TEL (long)			
Vocal Call	TEL (Short)			
Re-Dial Last Number	TEL (long)			
Higher volume Call / MP3			V+	
Lower volume Call / MP3			V-	
Enter Discrete MODE	TEL (Short)			
Exit Discrete MODE	TEL (Short)			
Close the Call	TEL (long)			
MENU selection				SEQUENCE S+S-S+S-
Scroll MENU up				S+ (Short)
Scroll MENU down				S- (Short)
Confirm MENU choice	TEL (Short)			
Next MP3 Track				S+ (Short)
Previous MP3 Track				S- (Short)
MP3 Play - Pause				SEQUENCE S- S+
Back MENU	TEL (long)			
Mute Mic				SEQUENCE S- S+

DELETE KIT MEMORY SEQUENCE V- V+ 5 TIMES (ONLY MKi9000)  
V = VOLUME  
S = SEEK  
SHORT = SHORT PRESS OF THE BUTTON  
LONG = LONG PRESS OF THE BUTTON  
SRC= SOURCE BUTTON  
TEL= SINGLE PHONE BUTTON