

Wired remote interface adapter MC7-IB4

for **BMW** (e36,e38, e46,e39,e53,e83,e85), **Mini** and **Land/Range Rover** with **I-Bus** to **Alpine, JVC, Kenwood, Pioneer, Sony / LG, China Multimedia / NAV.**

The interface contains a microprocessor, which allows using the OEM steering buttons with non-OEM Head units from **Alpine, JVC, Kenwood, Pioneer, Sony, LG** and even **China Nav without I-bus decoder.**

Brief function description: (for China NAV units there are 8 functions you can teach the unit)

Buton	Short press	Long press > 1s.
+		Volume +
-		Volume -
	In Radio mode: preset station + ** In CD / MP3 mode: next track	In Radio mode: seek + In MP3 mode : next folder
	In Radio: preset station - ** In CD / MP3: previous track	In Radio: seek - In MP3 : previous folder
R/T	*1 to *4 Source : Radio / CD / USB /BT *3 and *4 Source : the module ignores some R/T at start-up initialisation *5 and *6 The R/T (Source) function is not used (ignored) !	
	*1, *3 and *5 Answer the call *2, *4 and *6 ATT / Mute	Alpine, JVC, Pioneer with BT :End/Reject the call Kenwood : Next preset station Sony : Call (only with some new models)

Bluetooth functions "Start, End, Reject Call" usually are not supported by Sony and LG !

It is possible some of the function to differ from the description. For example :

** Kenwood **does not supports** preset station function. **Source** is used for End/Reject call

R/T *1 to *6 - On some BMW's when ACC is on, the steering wheel sends some R/T commands as an initialization, which causes a "false" Source command. It is possible to program the module to ignore R/T.

How to change the settings :

To choose a car - for BMW from *1 to *6, *7 for Mini with 6 buttons wheel and a Head unit you have to program the Module using the hidden button and 3-colour Led (yellow / red / green). You have to press the button through the little hole with a **NON metal** object. You can use a toothpick for example. The settings can be done in every moment when the Module is powered. **Before using the Module and connecting it to the Head unit it is recommended to check the settings and change them if necessary.**

Entering the setting mode and checking the current settings :

Press and hold the hidden button for about 2 seconds. The Led will light in yellow. After the Led goes out release the button. The Led will blink 3 time in yellow. You entered the car setting mode. The Led starts blinking in cycles in red, with a little pause. The number of red blinks between the pauses shows the setting of the buttons shown in the table above. With short press of the hidden button the Led blinks in yellow and number of red blinks increases until 6 and then start from position 1. To confirm and enter the Head unit setting mode press and hold the hidden button again for about 2 seconds. Led will light in yellow. After the Led goes out release the button. The Led starts blinking in green. You are now in Head unit setting mode -:

1. Alpine ; 2. JVC ; 3. Kenwood ; 4. Pioneer ; 5. Sony/LG ; 6. China Multimedia / NAV

Choosing the Head unit is same like the procedure above, instead in red now the Led is blinking in green showing the Head unit chosen. When you set the desired Head unit press and hold the hidden button for about 2 seconds. After releasing the button the Led will blink in red, then in green showing the Module is ready for work.

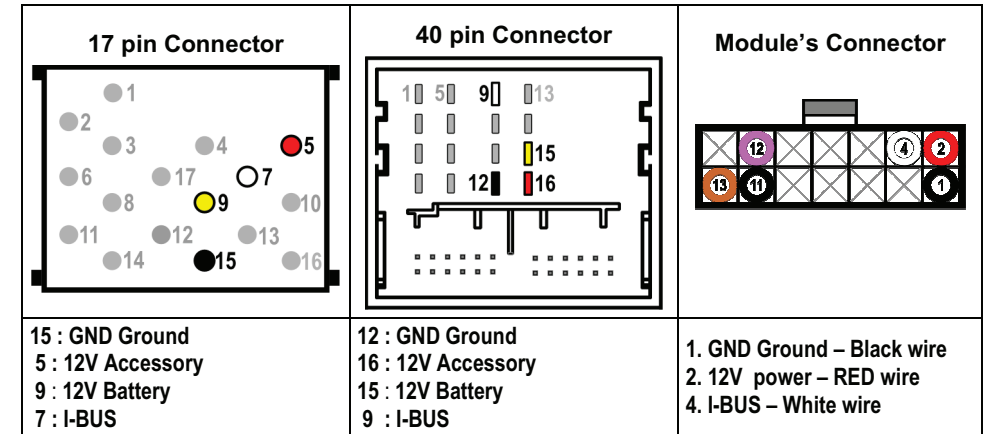
In every powering on, if the chosen settings are valid the Module will blink one time in red, followed by one time in green. When a valid command from the steering wheel is received the Led blinks in green.

Fitting / Wiring the MC7-IB4 module:

Module's power and inputs wires :

- > 1. Black – GND – chassis ground
- > 2. Red +12V power in. Connect this wire to car's ACC (recommended) or BATT (in case your head unit works independent from the car's ACC signal).
- > 4. White – I-Bus – input of the Module

BMW's are equipped with two models of audio connectors – the old one 17pin and new one 40pin. On the picture below the both BMW connectors are shown. **Take attention – the view is from the car's cable side.**



The Module's outputs :

For the different brand and year of manufacture of the Head unit outputs of the Module must be connected as on picture below (**N.C** – means **Not Connected** !). The Head unit's wired steering wheel input can be marked differently, but usually is something like - "W/R" , "Steering Wheel Remote Input", "OE"....

HU Brand / Output	Alpine	JVC < 2011 г.	JVC > 2011 г. / Kenwood	Pioneer / Sony / LG	China MM / NAV
11.Black	Jack 1	Jack 1	N.C.	Jack 1	SW-GND
13.Brown	N.C.	Jack 3	Blue / with Yellow strip	Jack 2	
12.Violet	Jack 3	N.C.	N.C.	Jack 3	

(Jack - 3,5mm stereo jack cable in the provided wire harness ; for China NAV units R= 560 ÷ 680 Ω..)

! For JVC after 2011 YM (without WR Jack) and Kenwood Only the Brown cable from the Module is connected to the Head unit's Blue / Yellow strip wire !

It is recommended all connections to be done with soldering and good isolation for both the used and unused wires of the Module, to prevent bad contact and short circuits.

Every miswiring of the Module's inputs / outputs may damage it!

It is strongly recommended to contact nearest car audio service and repair shop, if you do not have needed skills and knowledge for the installation!

The warranty is not valid if the Module was damaged due installation !

All Modules are tested before packaging and shipping.

Serial № / SN :

Warranty 12 months

подпис/печат

Date : / / 20.... г.