

CAN-Bus Steering Wheel Control Interface

Vehicle Compatibility

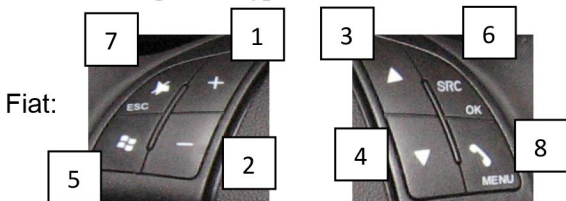
- Alfa
- Fiat
- Lancia
- Citroen Jumper (2007-)
- Peugeot Boxer (2006-)
- Ford KA
- Iveco Daily

Features Supported

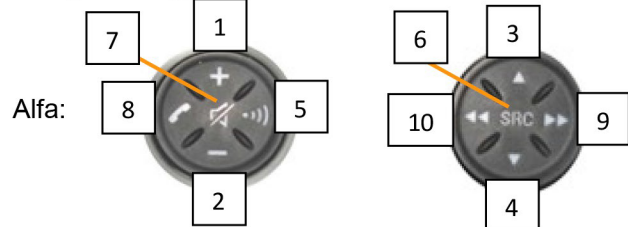
- Ignition
- Reverse
- Illumination
- Speed
- Park Brake
- Mute

Steering Wheel Remote Control

steering-wheel type 1



steering-wheel type 2



Steering Wheel Key	Command
1	Volume +
2	Volume -
3	Track +
4	Track -
5	Push to Talk (PTT)
6	Source
7	Mute
8	Short Press: Answer Call Long Press: Reject Call/Hang Up
9	Preset +
10	Preset -

Functions are vehicle dependent

OEM Radio Removal



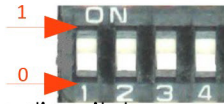
Tools



Universal Release Keys
(not included)

Setting the dipswitches

Radio



Set the corresponding dipswitches as per the below table

DIP switches	1	2	3	4
– Audiovox	0	0	0	0
– Blaupunkt	1	0	0	0
– Alpine	0	1	0	0
– Kenwood	1	1	0	0
– JVC	0	0	1	0
– Blaupunkt II ^{*1)}	1	0	1	0
– Clarion	0	1	1	0
– Macrom	1	1	1	0
– Zenec	0	0	0	1
– Eclipse	1	0	0	1
– Zenec II ^{*2)}	0	1	0	1
– Axion II	1	1	0	1
– Grundig/Axion ^{*3)}	0	0	1	1
– Sony	1	0	1	1
– Pioneer	0	1	1	1
– Becker	1	1	1	1

Colour	Description
Green	CAN-Bus Active
Yellow	Ignition Output enabled

*1) For all Blaupunkt radio devices of group 2

*2) For Zenec ZE-NC514 only

*3) For Axion radios of group 1 and Grundig radios



Vehicle

Vehicle Group 1

- Citroen Jumper (II. Gen., 2007-2011)
- Citroen Jumper (III. Gen., 2011-)
- Fiat Ducato (III. Gen. (250), 2006-2011)
- Fiat Ducato (IV. Gen., 2011-)
- Iveco Daily IV (2006-2011)
- Iveco Daily V (2011-)
- Peugeot Boxer (II. Gen. (250), 2006-2011)
- Peugeot Boxer (III. Gen., 2011-)

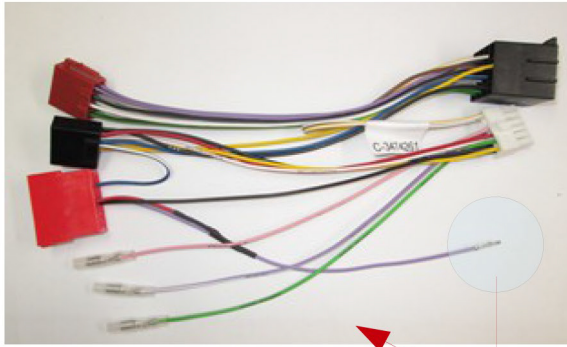
Vehicle Group 2

- Alfa 147 (937, 2006-2010)
- Alfa 156 (932, 2002-2005)
- Alfa 159 (939) 2005-2011)
- Alfa Brera (939, 2005-2010)
- Alfa GT (937, 2004-2010)
- Alfa Giulietta (940, 2010-)
- Alfa Mito (955, 2008-)
- Alfa Spider (939, 2006-2010)
- Fiat 500 (150, 2005-)
- Fiat Bravo (II. Gen., 198, 2007-)
- Fiat Croma (II. Gen., 194, 2005-2010)
- Fiat Doblo (I. Gen., 223, 2004-2010)
- Fiat Doblo (II. Gen., 263, 2010-)
- Fiat Fiorino (III. Gen., 225, 2008-)
- Fiat Grande Punto (III. Gen., 199, 2005-)
- Fiat Idea (350, 2003-)
- Fiat Linea (110, 2007-)
- Fiat Multipla (186, 2004-)
- Fiat Panda (II. Gen., 169, 2003-)
- Fiat Punto (III. Gen., 199, 2005-2012)
- Fiat Punto (2012-)
- Fiat Punto Evo (2010-)
- Fiat Stilo (2004-2008)
- Fiat Qubo (300, 2008-)
- Ford KA (II. Gen., RU8, 2009-)
- Lancia Delta (III. Gen., 844, 2008-)
- Lancia Musa (350, 2004-2007)
- Lancia Ypsilon (843, 2003-2011)
- Lancia Ypsilon (846, 2011-)

#	Vehicle Type	DIP 5 – 8			
		5	6	7	8
1	Vehicle Group 1 <i>Function Output 8: Parking Brake</i>	1	0	0	0
2	Vehicle Group 2 <i>Function Output 8: Parking Brake</i>	0	1	0	0



Vehicle Harness



Must be connected to pin 3 of the 4 pin molex connector

Wire Colour	Signal
Pink	Speed
Purple	Reverse
Green	Park Brake

attention

no CAN on the radio

OBd connector

CAN High	Pin 1	orange / black
CAN Low	Pin 9	orange / white

Amplifier Adjustment



LED Sens. Vol.

Adjustment:

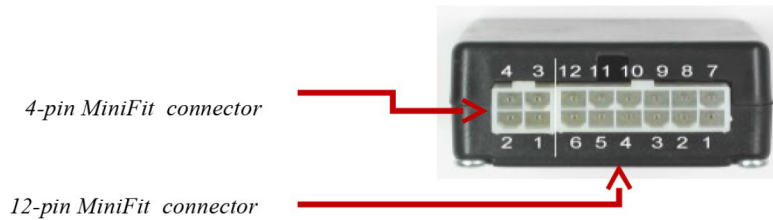
After installation, you have to adjust the sensitivity and volume of the box. (You need a screwdriver to perform.) Turn the sensitivity to the left (minimum) and set the adjustment for volume into middle position.

Please start a mobile phone call now, by using the cars „blue&me“ system and hold-on. Turn up the sensitivity slowly to the right until the NF-Signal is accepted , amplified and transfered to the front speaker.

Now, turn the adjustment for volume to the right or to the left to set the preferred volume level..

In case the incoming NF-signal level is too high, the red LED is lightning. Turn down the signal level in your phone- or telematic control box. This can also be done, if the signal is to weak.

Inputs and Outputs



12 Pin Connector Configuration

Pin	Signal	Type	Description	Note
1	Kl. 31	In	ground	
2	Kl. 31	In	ground	
3	Kl. 58	Out*)	illumination	output 0 V: illumination off / output 12 V: illumination on
4	R	Out *)	reverse	output 0 V: Δ off / output 12 V: Δ on
5	BTP 3.15	Out	Becker® remote control	remote control of Becker® navigation (chamber C3, Pin15)
6	CAN L	In	CAN LOW	
7	Kl. 30	In	+ 12V battery plus	interface is designed for 12V d.c. voltage
8	Mute / HB	Out	mute parking brake	output ground is according to switch setting
9	Kl. 15 / ACC	Out *)	ACC / ignition	output 0 V: ignition off / output 12 V: ignition on
10	Speed	Out *)	rectangular signal, proportional to speed	rectangular signal 0 .. 12 Volt, approx. 1 Hz per km/h
11	BTP 3.16	Out	Becker® remote control	remote control of Becker® navigation (chamber C3, Pin16)
12	CAN H	In	CAN HIGH	

4 Pin Connector Configuration

Pin	Signal	Type	Description	Note
1	Kl. 31	Out	ground	
2	RC5 out	Out	remote control system digital	
3	RC3 in	In	steering-wheel key input analog	
4	RC3 out	Out	remote control systems analog	

*) The maximum rate of current per output is 180 mA. Also, the total current of all outputs together must not exceed 200 mA. Otherwise, the interface could be damaged. In case a higher current is needed (ACC, reverse signal) a relay with a coil resistance of min. 75 Ω or min. 150 Ω by use of two relays. We advise to use our ER70.

