

Steering wheel remote set ARC-U004

**Interface-box
ARC-004**

**Universal harness
ARC-UNI**

**Harnesses device-specific
ARC-10x (not included in the set)**

Product features

- **Steering wheel control for after-market devices**
Alpine, Blaupunkt, Clarion, Digitaldynamic, JVC, Kenwood, Pioneer, Zenec

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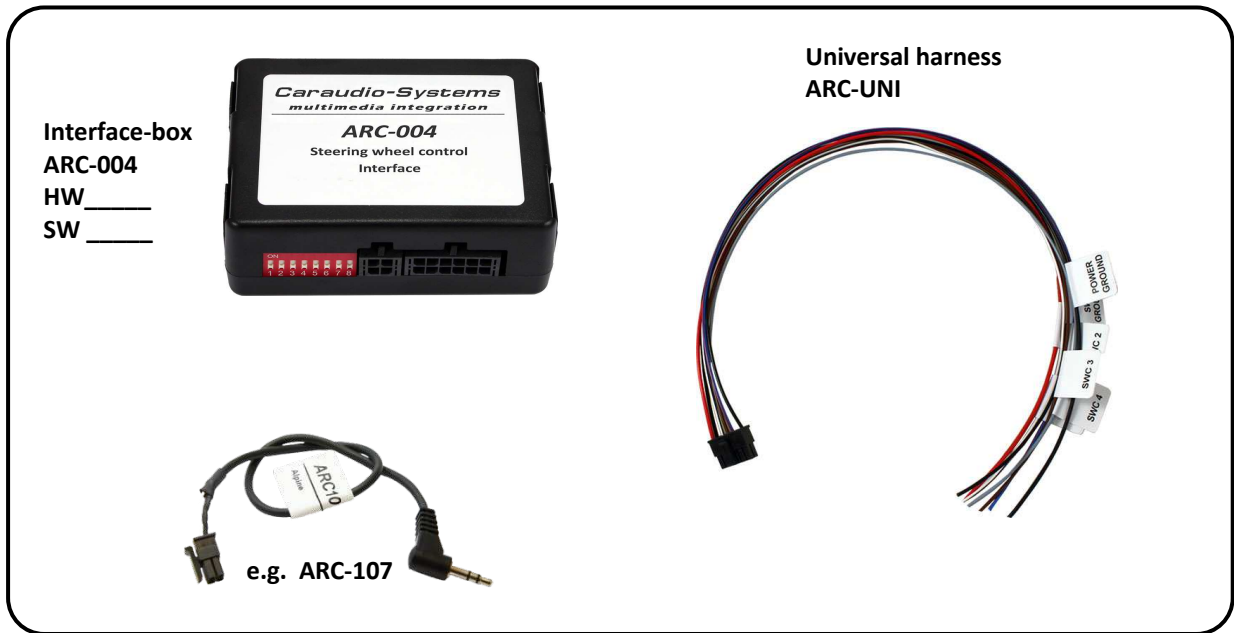
Information

Changes/updates of the vehicle's software can cause malfunctions of the interface. We offer free software-updates for our interfaces for one year after purchase. To receive a free update, the interface must be sent in at own cost. Labor cost for and other expenses involved with the software-updates will not be refunded.

1. Prior to installation

Read the manual prior to installation. Technical knowledge is necessary for installation. The place of installation must be free of moisture and away from heat sources.

1.1. Delivery contents



1.2. Setting of dip switches 1-4 (radio specific)

To use the steering wheel control is dependent on the manufacturer of the after-market device a device-specific IR control cable ARC-1xx needed. The dip switches 1-4 of the interface-box ARC-004 have to be set on the manufacturer/port. The following table shows the IR control cable and the dip switch settings for the supported manufacturers.



Harness	Description	Dip1	Dip2	Dip3	Dip3
ARC-104	Control cable set for Alpine	OFF	OFF	OFF	OFF
	Control cable set for Clarion	OFF	ON	ON	OFF
	Control cable set for JVC (Mini-Jack connection)	OFF	ON	OFF	ON
ARC-105	Control cable set for Kenwood (open wire)	OFF	ON	ON	ON
	Control cable set for JVC (open wire)	OFF	ON	OFF	ON
ARC-106	Control cable set for Kenwood (DIN connection)	OFF	ON	ON	ON
ARC-107	Control cable set for Pioneer	OFF	OFF	ON	ON
	Control cable set for Sony (remote control version 1)	OFF	ON	OFF	OFF
	Control cable set for Sony (remote control version 2)	OFF	OFF	ON	OFF
	Blaupunkt (Mini-Jack connection)	OFF	OFF	ON	ON
ARC-108	Control cable set for Zenec	OFF	OFF	OFF	ON

1.3. Setting of dip switches 5-8 (vehicle specific)

Dip switch 5-8 sets the vehicle brand.

Vehicle	Dip5	Dip6	Dip7	Dip8
Audi	OFF	OFF	OFF	ON
Alfa Romeo	ON	OFF	ON	ON
BMW	OFF	OFF	OFF	OFF
Fiat	ON	OFF	ON	ON
Ford	OFF	OFF	OFF	OFF
GM - Version 1	OFF	OFF	OFF	ON
GM - Version 2	OFF	OFF	ON	OFF
Honda	OFF	ON	ON	OFF
Hyundai	OFF	OFF	ON	ON
Mazda	OFF	ON	ON	ON
Mitsubishi	OFF	OFF	ON	ON
Nissan - Version 1	OFF	ON	OFF	OFF
Nissan - Version 2	ON	OFF	OFF	OFF
Opel	OFF	OFF	ON	ON
Skoda	OFF	OFF	OFF	ON
Subaru - Version 1	ON	OFF	OFF	ON
Subaru - Version 2	ON	OFF	ON	OFF
Toyota	OFF	ON	OFF	ON
VW	OFF	OFF	OFF	ON

1.4. ARC-004 LED functions

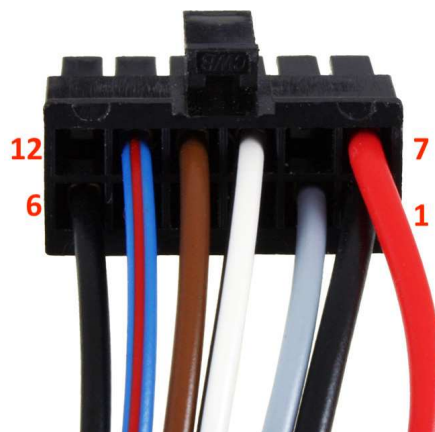
LED	Status	Function
● Red	Flashes	Control commands are sent
● Blue	Lights	Interface is ON

1.5. Steering wheel functions

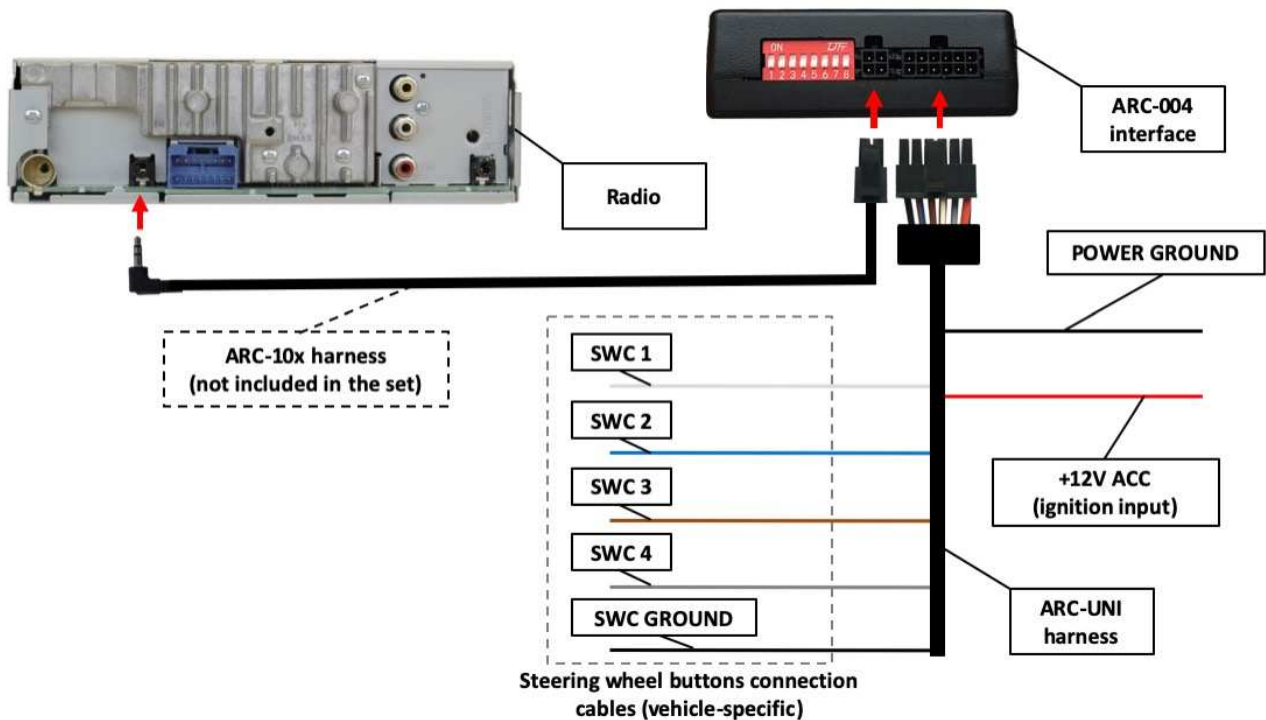
Button	Function	Vehicle / radio support
VOLUME + / -	Volume up / volume down	All vehicle brands , all radio brands
TRACK + / -	Next track / radio station, previous track / radio station	All vehicle brands , all radio brands
SOURCE	Source switching	Compatible vehicle brands, all radio brands
MUTE	Mute ON/OFF	Compatible vehicle brands, all radio brands
PICK UP PHONE / HANG UP PHONE	Answer call / end call	Compatible vehicle brands, all radio brands
PHONE	Answer call <u>OR</u> end call	Compatible vehicle brands, all radio brands
VOICE CONTROL	Activation of voice control	Compatible vehicle brands, compatible radio brands

1.6. Assignment of the 12-pin Molex plug on ARC-UNI harness

Cable colour	Assignment
Pin 1 ● black (ø0,8)	POWER GROUND
Pin 2 ● grey	SWC 4
Pin 6 ● black (ø0,5)	SWC GROUND
Pin 7 ● red	+12V ACC (ignition)
Pin 9 ● white / black	SWC 1
Pin 10 ● brown	SWC 3
Pin 11 ● blue / red	SWC 2



2. Connection schema



3. Installation

Switch off ignition and disconnect the vehicle's battery! If according to factory rules disconnecting the battery has to be avoided, it is usually sufficient to put the vehicle in sleep-mode. In case the sleep-mode does not show success, disconnect the battery with a resistor lead.

Place of installation of the ARC-U004 set is usually in the radio slot on the vehicle's radio port. Depending on the vehicle, connect the SWC 1 (white/black), SCW 2 (blue/red), SWC 3 (brown), SWC 4 (grey) and SWC GROUND (black $\varnothing 0.5$) wires to the original radio plug as described below. Connect the open red wire "+ 12V ACC" to ignition and the open black wire "POWER GROUND" ($\varnothing 0,8$) to vehicle ground.

4. Vehicle-specific assignments

As additional support the following pages give information about vehicle-specific steering wheel buttons pin definitions. This **information** is **subject to change** and must be verified by the installer.

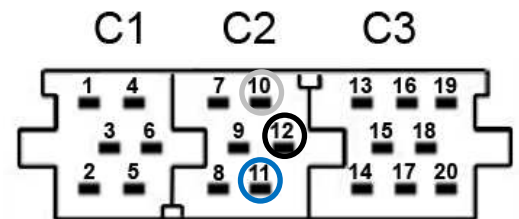
Link to the vehicle compatibility list:

➔ http://www.caraudio-systems.de/arc_00x_compatibility.pdf

ALFA ROMEO

Vehicles with MINI-ISO socket in the radio slot

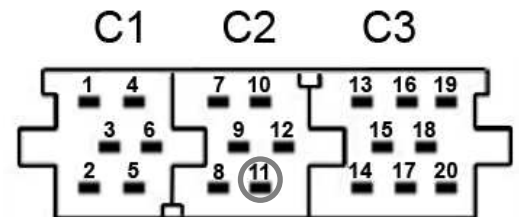
- SWC 1 > Pin 10
- SWC 2 > Pin 11
- SWC GROUND > Pin 12



AUDI

Vehicles with MINI-ISO socket in the radio slot
(without CAN-BUS)

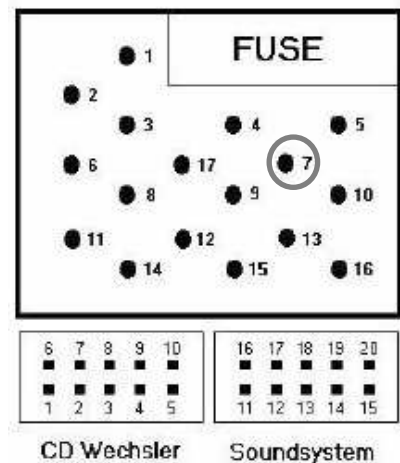
- SWC 4 > Pin 11



BMW

Vehicles with round contact socket in the radio slot

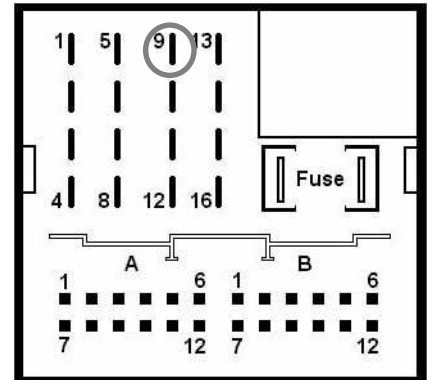
- SWC 4 > Pin



BMW

Vehicles with Quadlock socket in the radio slot

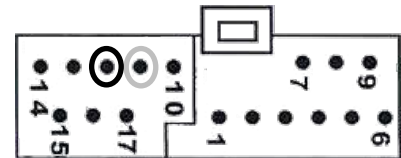
- SWC 4 > Pin 9



FORD

Vehicles with 17-pin socket in the radio slot

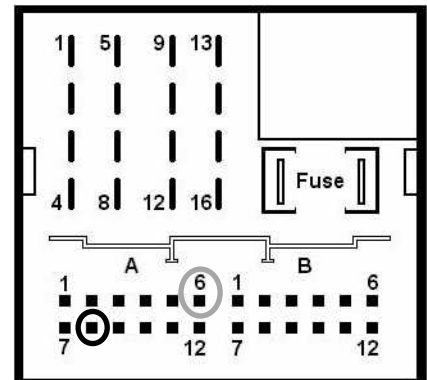
- SWC 1 > Pin 11
- SWC GROUND > Pin 12



FORD

Vehicles with Quadlock socket in the radio slot

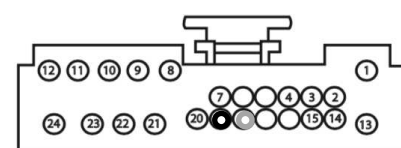
- SWC 1 > Kammer A - Pin 6
- SWC GROUND > Kammer A - Pin 8



FORD

Vehicles with 24-pin socket in the radio slot

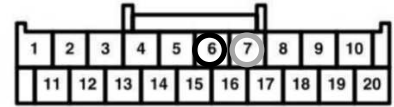
- SWC 1 > Pin 18
- SWC GROUND > Pin 19



HONDA

Vehicles with 17&20-pin or 20-pin socket in the radio slot

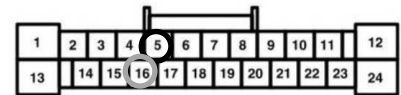
- SWC 1 > Pin 7
- SWC GROUND > Pin 6



HONDA

Vehicles with 24&20-pin or 24&12-pin socket in the radio slot

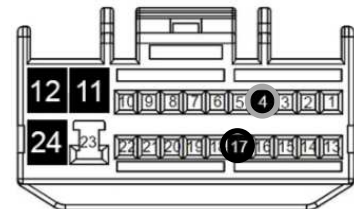
- SWC 1 > Pin 16
- SWC GROUND > Pin 5



HYUNDAI

Vehicles with 24-pin socket in the radio slot

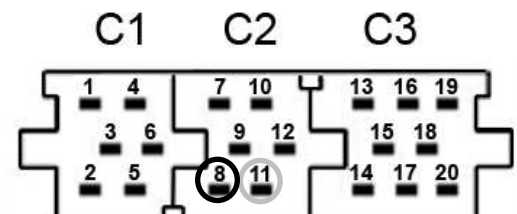
- SWC 1 > Pin 4
- SWC GROUND > Pin 17



HYUNDAI

Vehicles with MINI-ISO socket in the radio slot

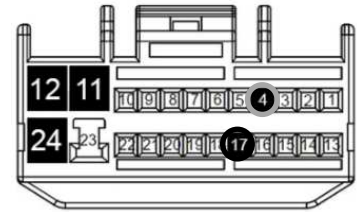
- SWC 1 > Pin 11
- SWC GROUND > Pin 8



KIA

Vehicles with 24-pin socket in the radio slot

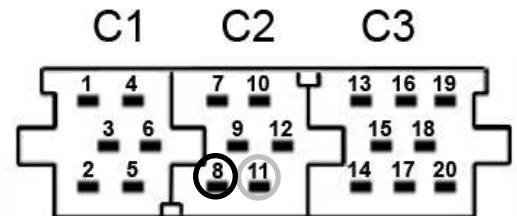
- SWC 1 > Pin 4
- SWC GROUND > Pin 17



KIA

Vehicles with MINI-ISO socket in the radio slot

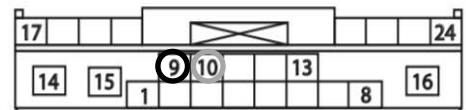
- SWC 1 > Pin 11
- SWC GROUND > Pin 8



MAZDA

Vehicles with 24-pin socket in the radio slot

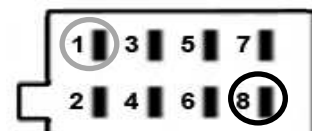
- SWC 1 > Pin 10
- SWC GROUND > Pin 9



OPEL

Vehicles with an 8-pin ISO socket in the radio slot

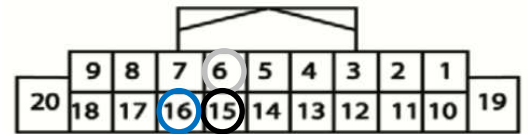
- SWC 1 > Pin 1
- SWC GROUND > Pin 8



NISSAN

Vehicles with 20-pin socket in the radio slot

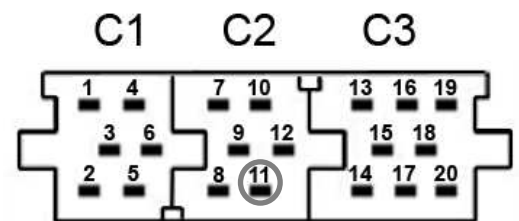
- SWC 1 > Pin 6
- SWC 2 > Pin 16
- SWC GROUND > Pin 15



SEAT

Vehicles with MINI-ISO socket in the radio slot
(without CAN-BUS)

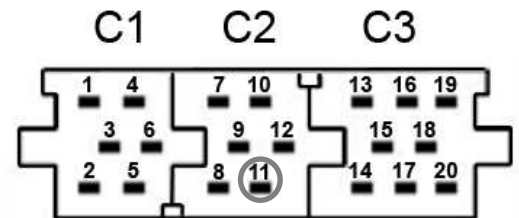
- SWC 4 > Pin 11



SKODA

Vehicles with MINI-ISO socket in the radio slot
(without CAN-BUS)

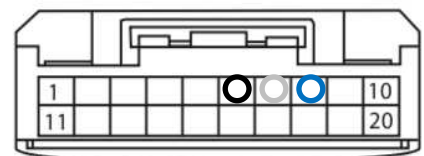
- SWC 4 > Pin 11



TOYOTA

Vehicles with 20-pin socket in the radio slot

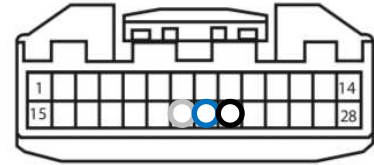
- SWC 1 > Pin 7
- SWC 2 > Pin 8
- SWC GROUND > Pin 6



TOYOTA

Vehicles with 28-pin socket in the radio slot

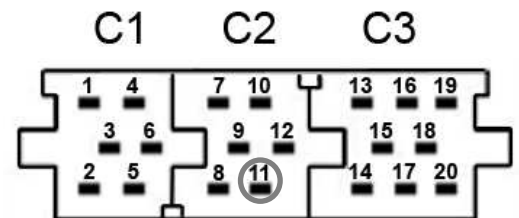
- SWC 1 > Pin 21
- SWC 2 > Pin 22
- SWC GROUND > Pin 23



VW

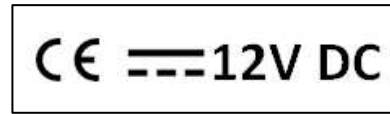
Vehicles with MINI-ISO socket in the radio slot
(without CAN-BUS)

- SWC 4 > Pin 11



5. Specifications

Operation voltage	10.5 – 14.8V
Stand-by power drain	0mA
Operation power drain	~50mA
Temperature range	-30°C till +80°C
Weight	44g
Measurements (box only) W x H x D	76 x 27 x 54 mm



6. Technical Support

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