NavLinkz CX-400 Interface Box Instruction Manual

Contents

NavLinkz

NavLinkz CX-400 Interface Box

Product Information

Specifications

- Product Name: CAN-bus Interface Interface-box CX-400
- Version: 18.12.2024
- Support: Free software updates for one year after purchase

Product features

- Conversion of digital CAN-bus signals into analogue signals ACC, speed, lights, reverse gear
- Adaptation of vehicle-specific radio ports to female ISO-connectors (for some vehicles only a universal harness with open ends available)
- Support/Starting of factory sound systems (not at all vehicles)
- With USB update-port for software-updates by consumer

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.

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.

Delivery contents

Take down the SW-version and HW-version of the CAN-box, and store this manual for support purposes.

There is always a universal or vehicle-specific cable set CX-0xx needed.

CAN-box
CX-400
HW_____
SW _____

e.g. CX-025

Check compatibility of vehicle
The CX-400 provides depending on the vehicle ignition (I), speed signal (S), reverse gear (R), lighting (L), it powers up an existing factory sound-system (SS) and allows the using of on-board computer system control (OCS).

The link to the table shows which harness CX-0xx can be used for which vehicles and which functions of the CX-400 will be supported for this vehicle.

https://downloads.casgermany.com/can_bus_compatibility.pdf

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 CX-400 is usually in the radio slot on the vehicle's radio port.

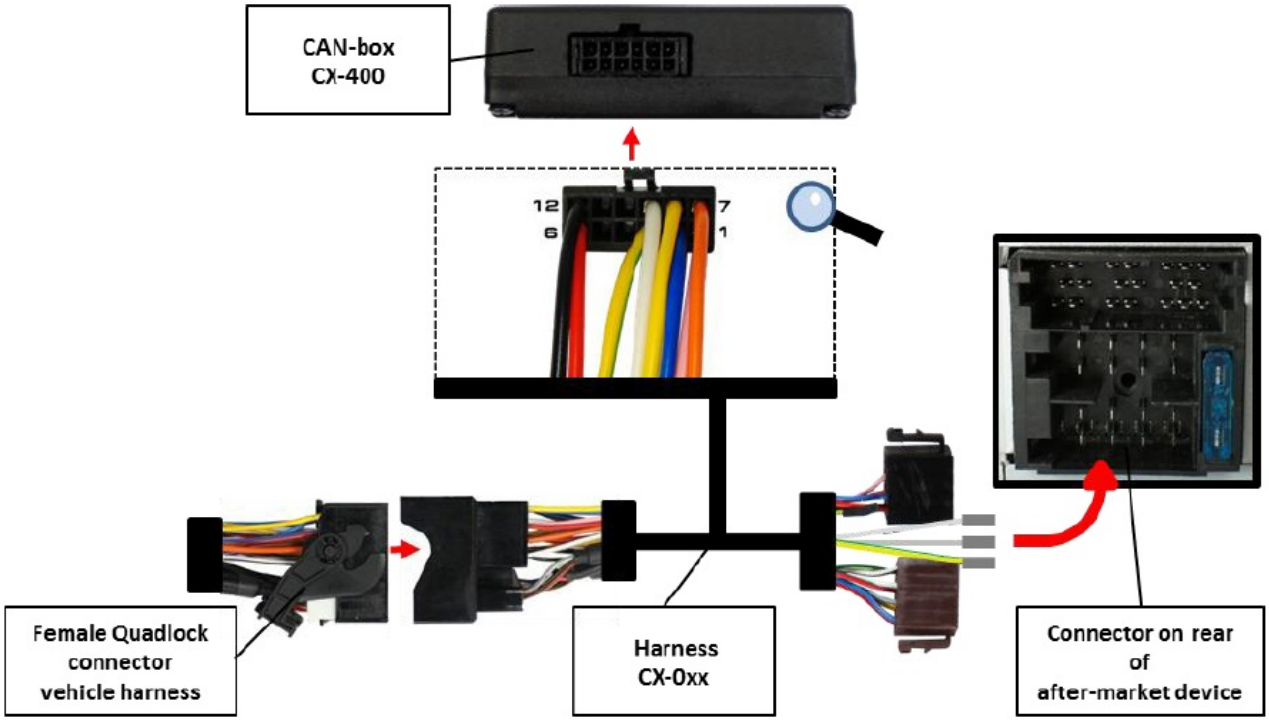
Assignment of the 12-pin Molex on CX-400

Cable colour	Assignment
Pin 1 ● pink	+12V ACC (Output) max.1.5A
Pin 2 ● blue	CAN-LOW (Input)
Pin 3 ●● yellow/green (●● yellow/red)	Speed signal (Output)
Pin 6 ● red	+12V Permanent (Input)
Pin 7 ● orange	Lights (Output) max. 0.1A
Pin 8 ● yellow	CAN-HIGH (Input)
Pin 9 ● white	Reverse gear (Output) max. 1.5A
Pin 12 ● black	Ground

CX-400 LED functions

LED	Status	Function
Red	Lights	Ignition is ON
Blue	Flashes	CAN Bus is searched
Blue	Lights	CAN Bus found

Connection example
Example of vehicle-specific harness CX-025.



Installation with vehicle-specific harness CX-0xx

- Persistent current, Ground, ACC signal (Z) and lights signal (L) are pinned in the female ISO-connector of the CX-0xx. If supported by the CX-401 connect speed signal (S) and reverse gear signal (R) to the corresponding pins of the after-market device.
- Depending on equipment/vehicle the grey cable is occupied with the analogue phone mute signal. Connect to the corresponding pins of the after-market device.
- Connect vehicle's female radio connector(s) to the corresponding male connector(s) of harness CX-0xx.
- Connect harness CX-0xx to CAN-Box CX-401 via 12pin Molex.
- Connect female ISO-connectors of harness CX-0xx to the ISO-connector of the after- market device.

Note for CX-035 (Ford): ACC and illumination are not digital but analogue signals on some vehicles. In this case connect ACC (Quadlock, chamber A, pin 16; pink wire) and illumination (Quadlock, chamber A, pin 13; orange wire) between female 12pin MicroFit connector and female ISO connectors, using the plugs of the harness.

Installation with universal harness CX-010

Connect universal harness CX-010 according to assignment of 12pin Molex on CX- 400 to harness of the after-market device and to vehicle harness.

Onboard computer control Citroen and Peugeot for after-market radios
To control the onboard computer in Citroen and Peugeot vehicles the following functions can be selected by steering-wheel buttons:

- **Select** Menu long pressing “Source” (4s)
- **ESC** short pressing “Source”
- **OK** Vol+
- **Menu up** Wheel up
- **Menu down** Wheel down
- **Menu Right** Track+
- **Menu Left** Track-
- **Mode** long pressing “Tr+” (4s)
- **Dark** long pressing “Tr-” (4s)

Assignment of the steering-wheel buttons:

- **Tr+** pick up phone
- **Tr-** hang up phone
- **Wheel up** Tr+
- **Wheel down** Tr-

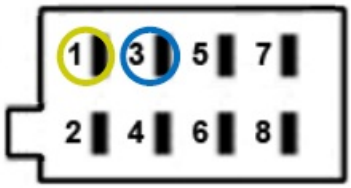
The assignments of the remaining steering-wheel buttons are identical to the label!

Vehicle-specific assignments – CAN-bus

As additional support the following pages give information about some vehicle-specific CAN-bus pin definitions. This information is subject to change and must be verified by the installer.

ALFA ROMEO

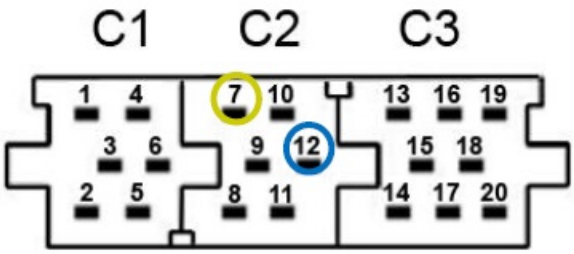
147
Female 8-Pin ISO connector in radio slot CAN High – Pin 1
CAN Low – Pin 3



AUDI
A2, A3, A4, A6 till 01/05
Female Mini-ISO connector in radio slot

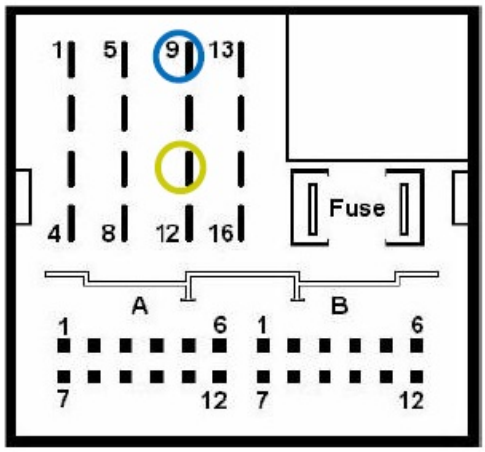
- CAN High – Pin 7

- CAN Low – Pin 12



BMW
1series E81, 3series E90, 5series E60 Female Quadlock-connector in radio slot

- CAN High – Pin 11
- CAN Low – Pin 9

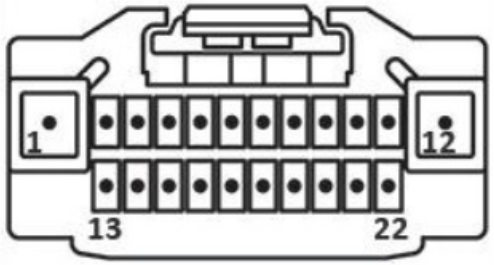


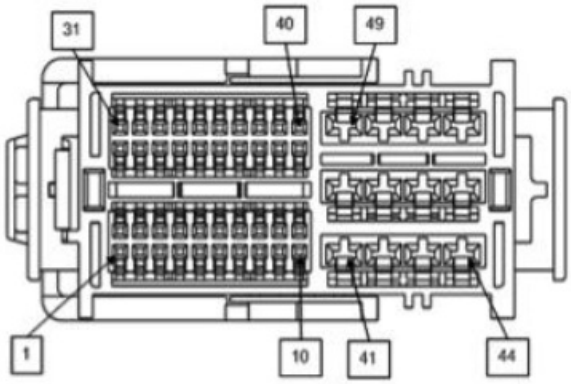
Chrysler
Chrysler cars with female 22pin connector in radio slot

- CAN High – Pin 10
- CAN Low – Pin 13

Chrysler cars with female 52pin connector in radio slot

- CAN High – Pin 2
- CAN Low – Pin 12



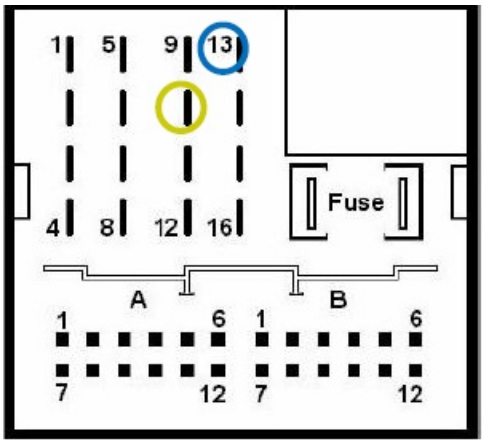


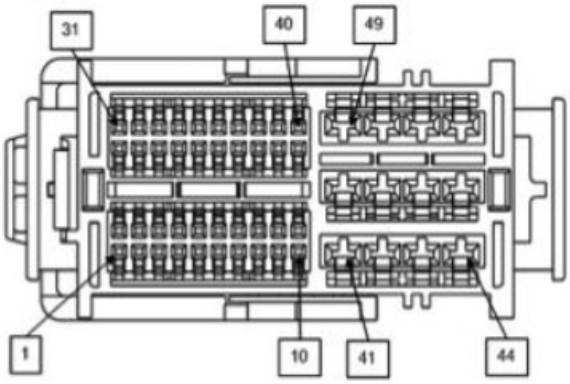
CITROËN
C4, C5 from 10/04
Female Quadlock-connector in radio slot

- CAN High – Pin 10
- CAN Low – Pin 13

Jumper II
Female 52pin connector in radio slot

- CAN High – Pin 2
- CAN Low – Pin 12



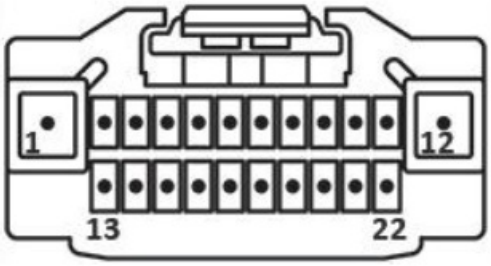


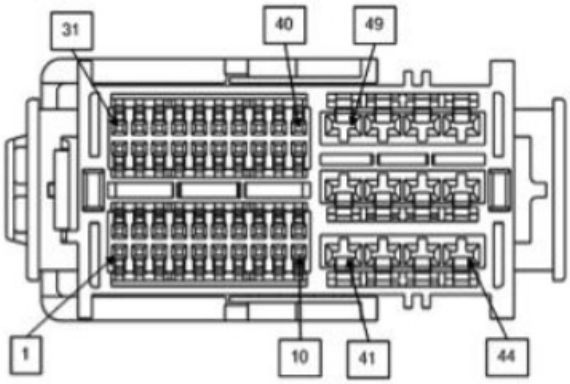
Dodge
Dodge cars with female 22pin connector in radio slot

- CAN High – Pin 10
- CAN Low – Pin 13

Dodge cars with female 52pin connector in radio slot

- CAN High – Pin 2
- CAN Low – Pin 12





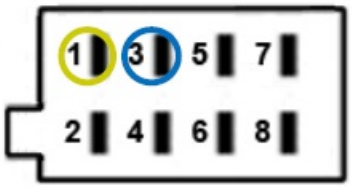
FIAT

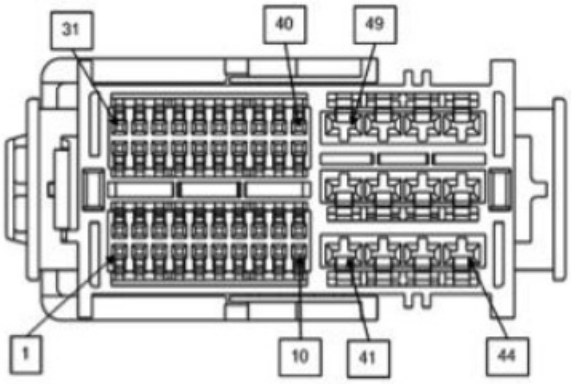
Stilo, 500
Female 8pin ISO connector in radio slot

- CAN High – Pin 1
- CAN Low – Pin 3

Ducato as of 2013
Female 52pin connector in radio slot

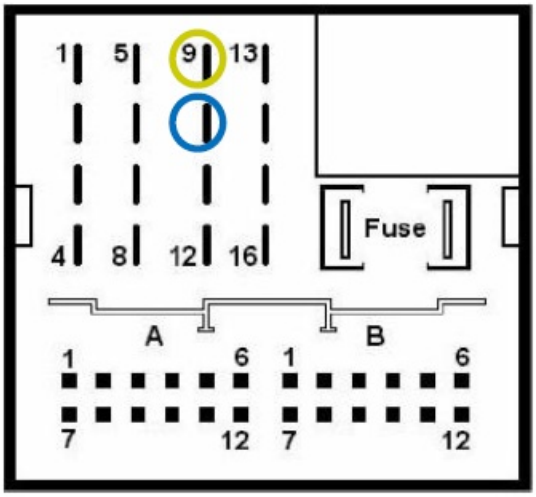
- CAN High – Pin 2
- CAN Low – Pin 12





FORD
Focus, Focus C-MAX, S-MAX, Mondeo Female Quadlock connector in radio slot

- CAN High – Pin 9
- CAN Low – Pin 10



Fiesta, Transit, Transit Custom, Transit Connect
Female 32pin connector in radio slot

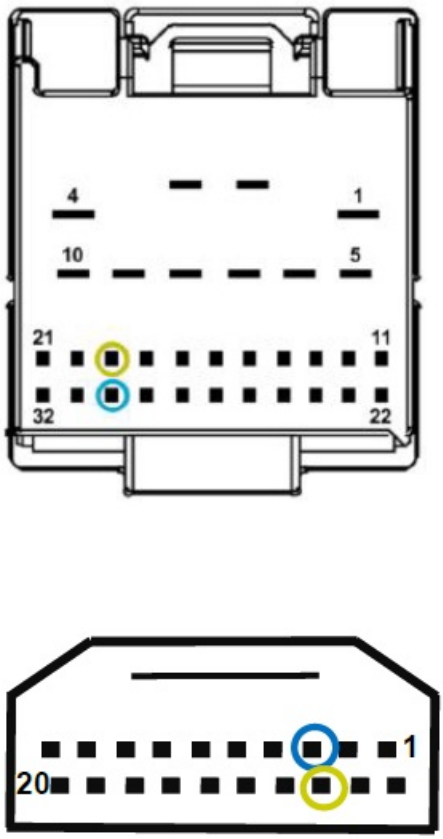
- CAN High – Pin 19
- CAN Low – Pin 30

Honda

Accord (8G), CR-Z, Jazz (2G)
Female 20pin connector in radio slot

- CAN High – Pin 13

- CAN Low – Pin 3



JEEP/CHRYSLER

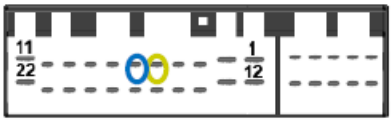
Grand Cherokee, 300C
Female 22-pin connector in radio slot

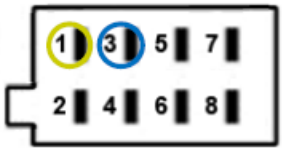
- CAN High – Pin 5 (white / red)
- CAN Low – Pin 6 (white)

LANCIA

Ypsilon from 11/03
Female 8-pin ISO connector in radio slot

- CAN High – Pin 1
- CAN Low – Pin 3





MERCEDES BENZ

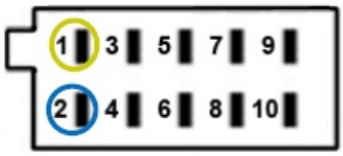
CLK W208 after facelift, CLK W209 till 03/04,
E-Class W210 from 09/99, Viano, SL W230 from 07/04 Female 10pin ISO-connector in radio slot

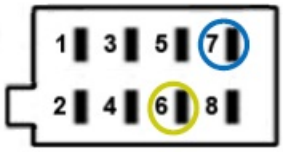
- CAN High – Pin 1
- CAN Low – Pin 2

A-Class W169 and B-Class W245 with Audio5,
all MERCEDES with indoor CAN-bus

Female 8pin ISO connector in radio slot

- CAN High – Pin 6
- CAN Low – Pin 7

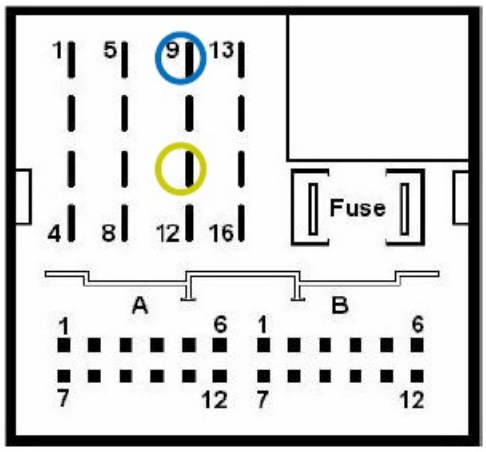




A-Class W169 and B-Class W245 with Audio20,
C-Class W203 and CLK W209 from 04/04,

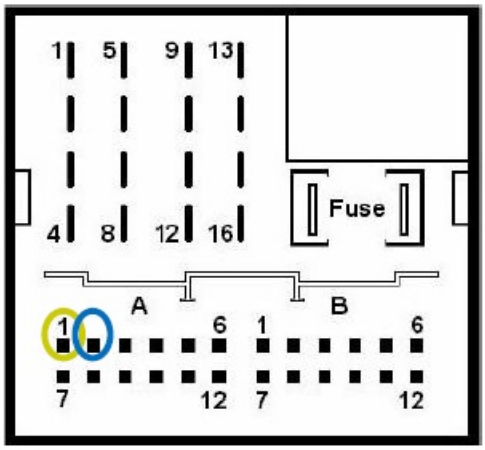
Viano W693
Female Quadlock-connector in radio slot

- CAN High – Pin 11
- CAN Low – Pin 9



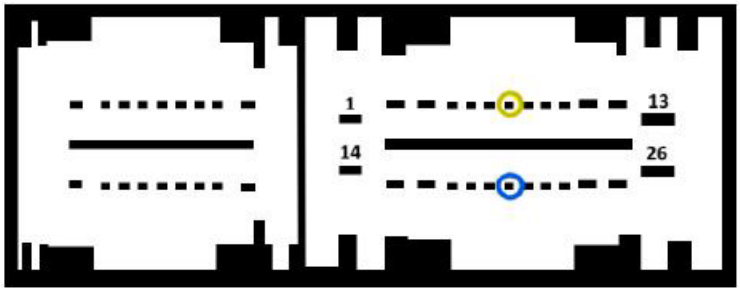
E-Class W211 from 04/03, CLS W219, SLK R171
Female Quadlock-connector in radio slot

- CAN High – Pin 1 (Kammer A)
- CAN Low – Pin 2 (Kammer A)



Sprinter W907/W910 from 12/07
Female 26pin connector in radio slot

- CAN High – Pin 7
- CAN Low – Pin 20



OPEL
Vectra C till 07/04
Female Mini-ISO connector in radio slot

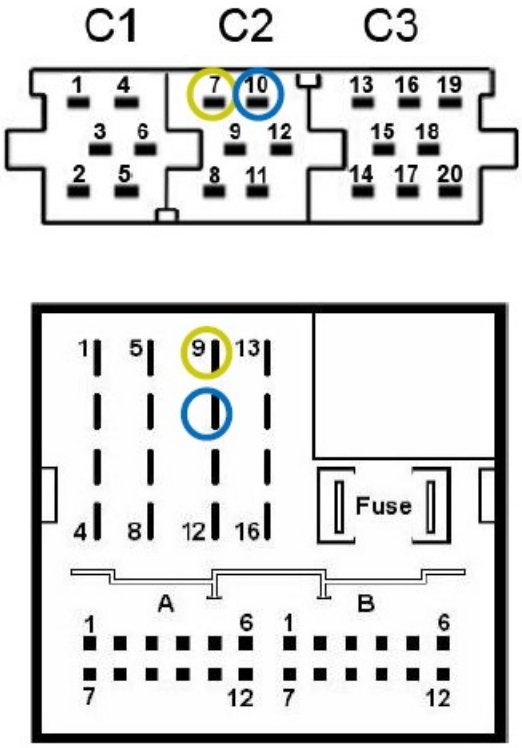
- CAN High – Pin 7
- CAN Low – Pin 10

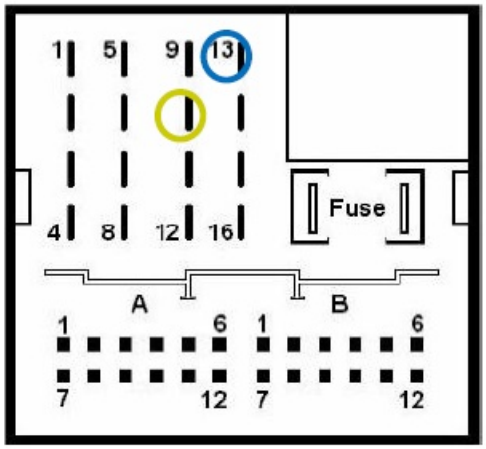
Astra H , Corsa C, Meriva, Tigra Twin Top, Vectra C from 08/04
Female Quadlock-connector in radio slot

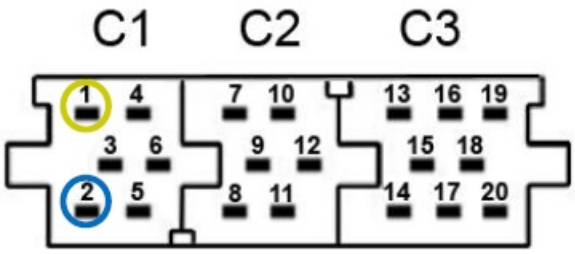
- CAN High – Pin 9
- CAN Low – Pin 10

PEUGEOT
307, 407
Female Quadlock-connector in radio slot

- CAN High – Pin 10
- CAN Low – Pin 13

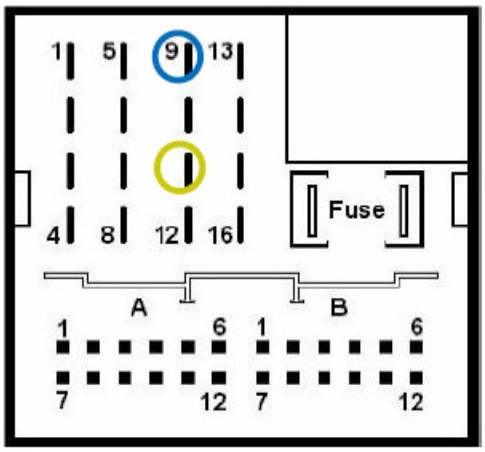






PORSCHE
Cayenne (9PA), Boxster (987), 911 (997) Female Mini-ISO connector in radio slot

- CAN High – Pin 1
- CAN Low – Pin 2



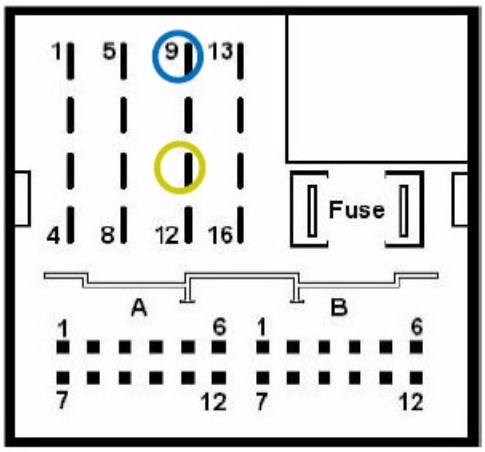
Cayenne (92A), Panamera (970)
Female Quadlock-connector in radio slot

- CAN High – Pin 11
- CAN Low – Pin 9

SEAT

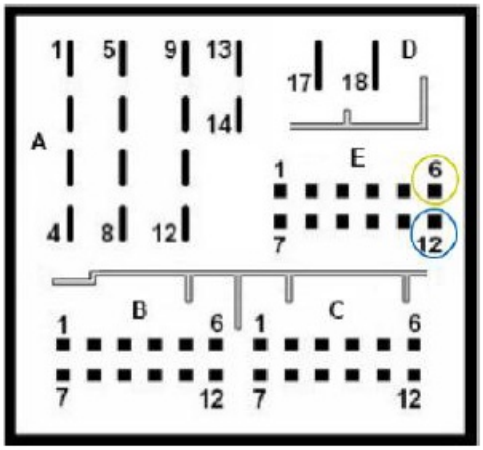
Altea
Female Quadlock-connector in radio slot

- CAN High – Pin 9
- CAN Low – Pin 10



Leon III
Female Quadlock-connector in radio slot

- CAN High – Pin 6
- CAN Low – Pin 12



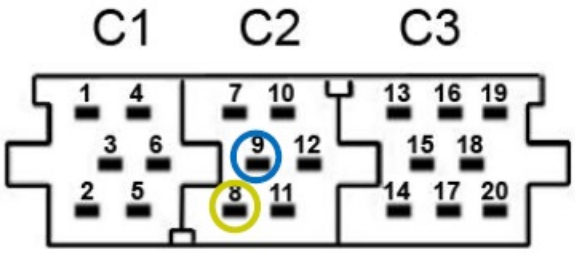
ŠKODA

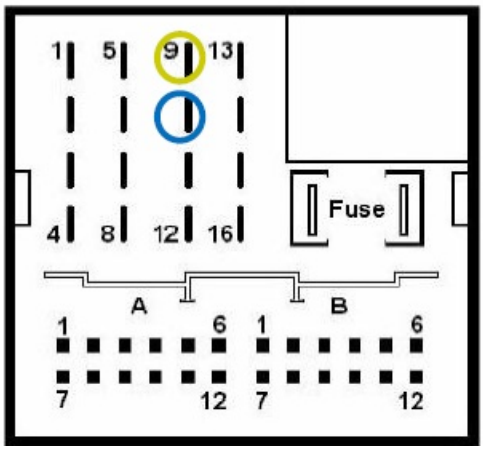
Superb, Octavia I
Female Mini-ISO connector in radio slot

- CAN High – Pin 8
- CAN Low – Pin 9

Octavia II
Female Quadlock-connector in radio slot

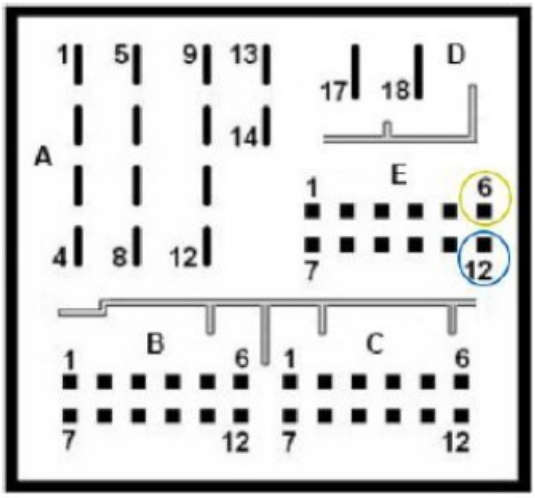
- CAN High – Pin 9
- CAN Low – Pin 10





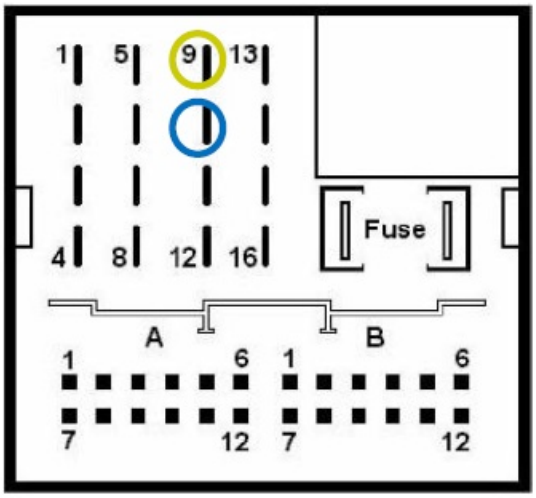
Fabia III
Female Quadlock-connector in radio slot

- CAN High – Pin 6
- CAN Low – Pin 12



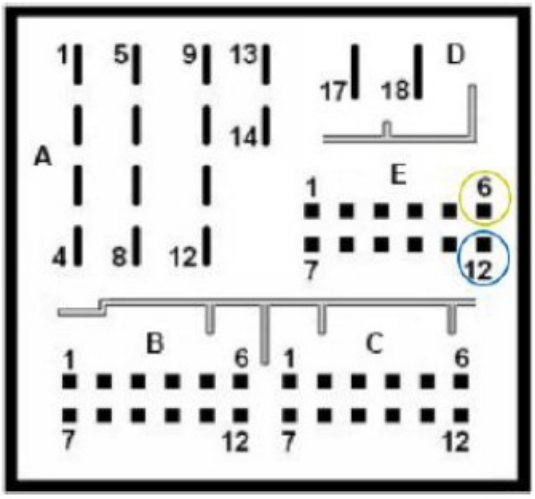
VOLKSWAGEN
Golf 4, Golf 5, Passat 3B, Caddy, Touran, Touareg, T5
Female Quadlock-connector in radio slot

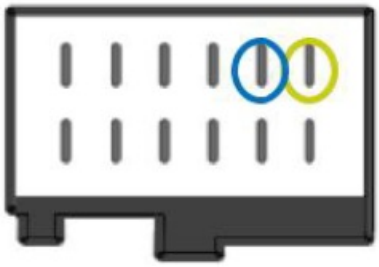
- CAN High – Pin 9
- CAN Low – Pin 10



Golf 7
Female Quadlock-connector in radio slot

- CAN High – Pin 6
- CAN Low – Pin 12





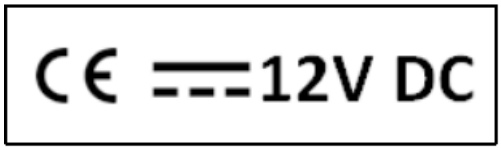
VOLVO

S60, V70
Female 12pin connector in radio slot

- CAN High – Pin 7 (white)
- CAN Low – Pin 8 (green)

XC90
Female 10-Pin connector in radio slot

- CAN High – white cable (double occupied)
- CAN Low – green cable (double occupied)



Specifications

- **Operation voltage** 10.5 – 14.8V
- **Stand-by power drain** <3mA
- **Operation power drain** ~50mA
- **Power consumption** 0.07-40W
- **Temperature range** -30°C till +80°C
- **Weight** 38g
- **Measurements** (box only) W x H x D 71 x 22 x 50 mm

Capacitance

- ACC max. 1.5A
- Reverse Gear max. 1.5A
- Lights max. 0.1A

Technical Support

- CAS GmbH
- manufacturer/distribution
- In den Fuchslöchern 3
- D-67240 Bobenheim-Roxheim
- **email** support@casgermany.com

FAQ

Q: What should I do if the interface malfunctions after a software update?
A: Contact technical support for troubleshooting and possible solutions.

Documents / Resources

	NavLinkz CX-400 Interface Box [pdf] Instruction Manual CX-400, CX-401, CX-0xx, CX-400 Interface Box, Interface Box, Box

References

- User Manual