

CAN-OUT Steering Wheel Audio Control Interface Adapter



for Alpine, Pioneer, Sony,
JVC, Clarion head units



Plug adapter
for Blaupunkt
head unit



Plug adapter
for Kenwood
head unit



Plug adapter
for Panasonic
head unit

Wiring

Red:	Power +12 V (BAT)
Black:	Power GND
Pink:	CAN HIGH
Gray:	CAN LOW
Blue:	Amplifier activation (12 V input)
Gray/Black:	Optional resistive buttons input SW1
Brown:	Optional resistive buttons ground SWG
Yellow:	Accessory (ACC) *
White:	Light *
Violet:	Reverse *
Green:	Speed pulse (1 km/h -> 1 Hz) *
Orange:	Current output for external optional IR diode (anode)
Brown:	Ground for external optional IR diode (cathode)

* All 12 V outputs have short circuit and over temperature protection and current limit not less than 700 mA.

Note:

- 1) An optional plug adapter is required to connect Jack 3.5 equipped steering wheel adapter to Blaupunkt, Kenwood and Panasonic head units.
- 2) To configure adapter for certain head unit brand use steering wheel buttons to type appropriate programming sequence listed in [table](#) on next page of this document. Configuration will not be cleared after power off. **Programming is possible only if steering wheel has all necessary buttons: “vol+”, “vol-”, “seek+”, “seek-”**

Uzmanību:

- 1) Adaptera pieslēgšanai pie magnetolām Blaupunkt, Kenwood un Panasonic ir nepieciešamas atsevišķas pārejas priekš spraudņa Jack 3.5.
- 2) Lai konfigurētu adapteri priekš konkrētas magnetolas izmantojot stūres vadības pogas, nepieciešams ievadīt attiecīgo kombināciju rindu, kas paredzēta konkrētajai magnetolai. [Tabula](#) atrodas lapas otrajā pusē. Konfigurācija saglabājas arī pēc barošanas atslēgšanas. **Programmēšana ir iespējama, ja ir visas pogas, ko izmanto programmēšanas procesā, tās būtu, “vol+”, “vol-”, “seek+”, “seek-”.**

Внимание:

- 1) Для подключения адаптера, оснащенного разъемом Jack 3.5, к магнитолам марок Blaupunkt, Kenwood и Panasonic, требуется дополнительный переходник.
- 2) Чтобы сконфигурировать адаптер для работы с требуемой маркой магнитолы нужно, используя кнопки на руле, набрать соответствующую последовательность из [таблицы](#) на следующей странице этого документа. Конфигурация сохраняется и после выключения питания. **Программирование возможно только при наличии всех необходимых кнопок: “vol+”, “vol-”, “seek+”, “seek-”.**

Programming Sequences

Alpine	:	- + ↑ + ↓	+ ↓ ↑ ↓	↑ + ↑ ↓	↑ ↓ + ↓
Pioneer	:	- + ↓ ↑ ↓	+ ↑ + ↓	↑ + ↑ ↓	↑ ↓ + ↓
Pioneer2	:	- + ↓ ↑ ↓	+ ↑ + ↓	↑ + ↑ ↓	+ ↓ + ↓
Kenwood	:	- ↑ + ↑ ↓	↑ ↓ + ↓	+ ↑ + ↓	+ ↓ ↑ ↓
Kenwood2	:	- ↑ + ↑ ↓	↑ ↓ + ↓	+ ↑ + ↓	+ ↓ + ↓
Sony	:	- ↑ ↓ + ↓	↑ + ↑ ↓	+ ↑ + ↓	+ ↓ ↑ ↓
JVC	:	- + ↓ + ↓	↑ ↓ ↑ ↓	+ ↑ + ↓	+ ↓ ↑ ↓
JVC2	:	- + ↓ + ↓	↑ ↓ ↑ ↓	+ ↑ + ↓	↑ ↓ + ↓
Blaupunkt	:	- ↑ ↓ ↑ ↓	+ ↑ + ↓	+ ↓ ↑ ↓	↑ + ↑ ↓
Blaupunkt2	:	- ↑ ↓ ↑ ↓	↑ ↓ + ↓	+ ↑ + ↓	↑ + ↑ ↓
Blaupunkt3	:	- ↑ ↓ ↑ ↓	+ ↓ + ↓	↑ ↓ + ↓	+ ↓ ↑ ↓
Panasonic	:	- + ↑ + ↓	↑ ↓ ↑ ↓	↑ + ↑ ↓	+ ↓ ↑ ↓
Clarion	:	- + ↓ ↑ ↓	+ ↓ + ↓	↑ ↓ + ↓	+ ↑ + ↓
Clarion2	:	- + ↓ ↑ ↓	+ ↓ + ↓	↑ ↓ + ↓	↑ + ↑ ↓
AmplifierCAN	:	- + ↑ + ↓	↑ ↓ ↑ ↓	+ ↓ ↑ ↓	↑ ↓ + ↓
SeekPreSwap*	:	- ↑ ↓ ↑ ↓	↑ + ↑ ↓	↑ ↓ + ↓	+ ↓ + ↓
UsePhoneBtn*	:	- ↑ + ↑ ↓	↑ ↓ ↑ ↓	+ ↓ + ↓	+ ↑ + ↓
Alpine	:	- + ▷ + ◀	+ ◀ ▷ ◀	▷ + ▷ ◀	▷ ◀ + ◀
Pioneer	:	- + ◀ ▷ ◀	+ ▷ + ◀	▷ + ▷ ◀	▷ ◀ + ◀
Pioneer2	:	- + ◀ ▷ ◀	+ ▷ + ◀	▷ + ▷ ◀	+ ◀ + ◀
Kenwood	:	- ▷ + ▷ ◀	▷ ◀ + ◀	+ ▷ + ◀	+ ◀ ▷ ◀
Kenwood2	:	- ▷ + ▷ ◀	▷ ◀ + ◀	+ ▷ + ◀	+ ◀ + ◀
Sony	:	- ▷ ◀ + ◀	▷ + ▷ ◀	+ ▷ + ◀	+ ◀ ▷ ◀
JVC	:	- + ◀ + ◀	▷ ◀ ▷ ◀	+ ▷ + ◀	+ ◀ ▷ ◀
JVC2	:	- + ◀ + ◀	▷ ◀ ▷ ◀	+ ▷ + ◀	▷ ◀ + ◀
Blaupunkt	:	- ▷ ◀ ▷ ◀	+ ▷ + ◀	+ ◀ ▷ ◀	▷ + ▷ ◀
Blaupunkt2	:	- ▷ ◀ ▷ ◀	▷ ◀ + ◀	+ ▷ + ◀	▷ + ▷ ◀
Blaupunkt3	:	- ▷ ◀ ▷ ◀	+ ◀ + ◀	▷ ◀ + ◀	+ ◀ ▷ ◀
Panasonic	:	- + ▷ + ◀	▷ ◀ ▷ ◀	▷ + ▷ ◀	+ ◀ ▷ ◀
Clarion	:	- + ◀ ▷ ◀	+ ◀ + ◀	▷ ◀ + ◀	+ ▷ + ◀
Clarion2	:	- + ◀ ▷ ◀	+ ◀ + ◀	▷ ◀ + ◀	▷ + ▷ ◀
AmplifierCAN	:	- + ▷ + ◀	▷ ◀ ▷ ◀	+ ◀ ▷ ◀	▷ ◀ + ◀
SeekPreSwap*	:	- ▷ ◀ ▷ ◀	▷ + ▷ ◀	▷ ◀ + ◀	+ ◀ + ◀
UsePhoneBtn*	:	- ▷ + ▷ ◀	▷ ◀ ▷ ◀	+ ◀ + ◀	+ ▷ + ◀

↑ , ▷ = Seek + ; ↓ , ◀ = Seek - ; “+” = Volume Up ; “-” = Volume Down.

* (en)

SeekPreSwap: Reassignment of buttons functions: swap around commands “Seek/Track” and “Preset/Disk/Folder”. In case of presence of only “Seek+/-” buttons, initially short pressing is translated to “Seek/Track” command and prolonged pressing – to “Preset/Disk/Folder” command.

UsePhoneBtn: Send phone control commands. By default “On-hook/Off-hook” buttons on steering wheel causes sending of “Mute” command to head-unit.

* (lv)

SeekPreSwap: Pogū funkciju atkārtota iestatīšana: apmainīt vietām komandas “Seek/Track” un “Preset/Disk/Folder”. Gadījumā, ja stūre aprīkota tikai ar “Seek +/-” pogām, sākotnēji īsie pogas spiedieni izpildīs “Seek/Track”, bet garie spiedieni “Preset/Disk/Folder” funkciju.

UsePhoneBtn: Tālruna vadības komandu pārraide. Pēc noklusēšanas, “On-hook/Off-hook” stūres pogas izsauc komandu “Mute”.

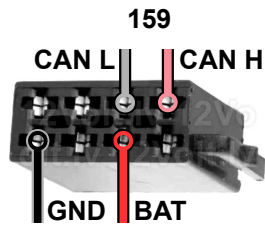
* (ru)

SeekPreSwap: Переназначение функций кнопок: обмен местами команд “Seek/Track” и “Preset/Disk/Folder”. Если присутствуют только кнопки “Seek+/-”, изначально, короткое нажатие передает команду “Seek”, а длинное — “Preset”.

UsePhoneBtn: Переключение режимов работы кнопок управления телефоном. Единственная кнопка “Phone” может работать как “Mute”. В случае наличия двух кнопок управления телефоном в альтернативном режиме кнопка поднятия трубки Off-Hook коротким нажатием поднимает, длинным кладет трубку, а кнопка опускания On-Hook работает как Mute.

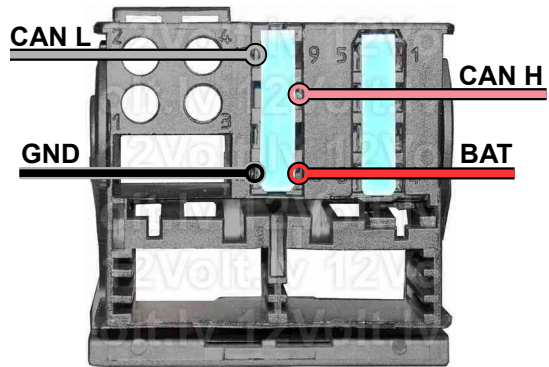
Pinouts

Alfa Romeo



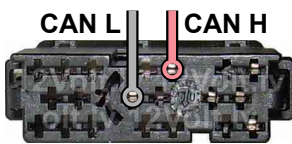
Citroën

C4 2006, Jumpy 2011

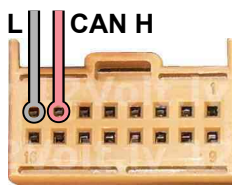


Audi

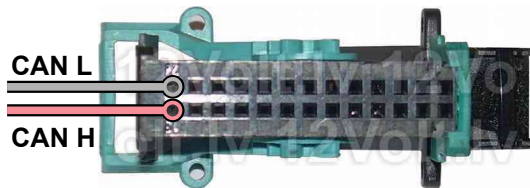
A3 2005, A4 2002



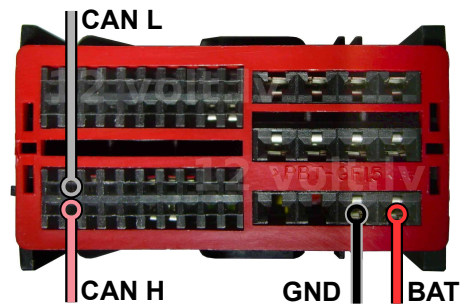
A6 2005



A6 2001

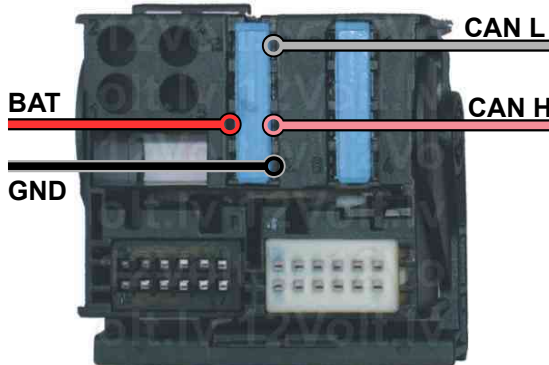


Jumper 2015



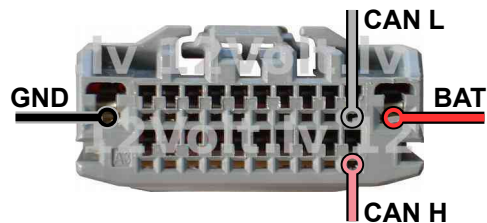
BMW

E61 2005



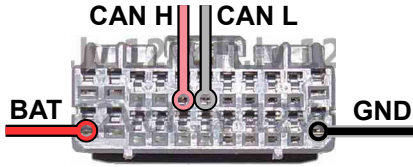
Chrysler

Voyager 2008

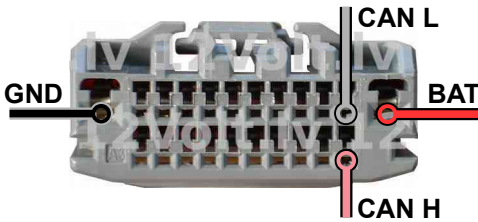


Dodge

Caliber SXT 2012, Durango 2004

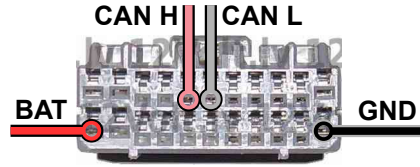


Avenger 2006,2007, Nitro SXT 2007

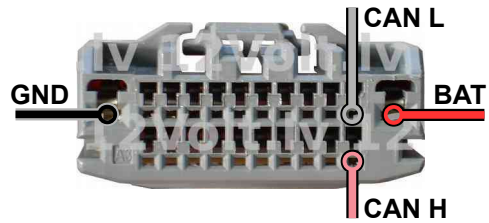


Jeep

Grand Cherokee 2006

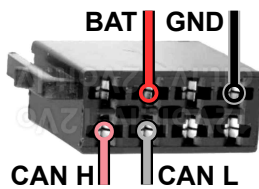


Wrangler 2011

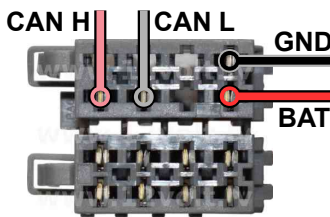


Fiat

Ducato 2012

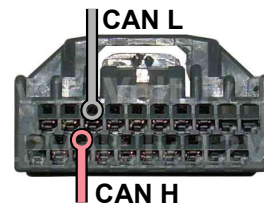


Bravo 2011



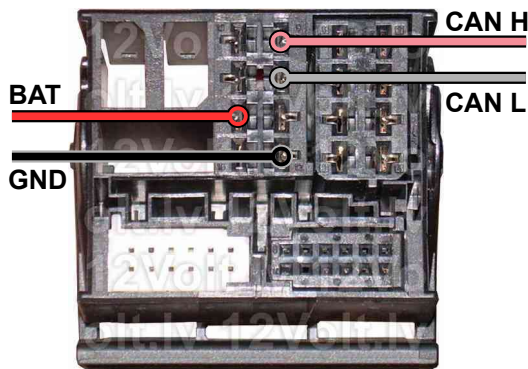
Honda

Honda Civic 5d 2012, Honda CR-V 2013



Ford

Focus 2006, S-MAX 2006

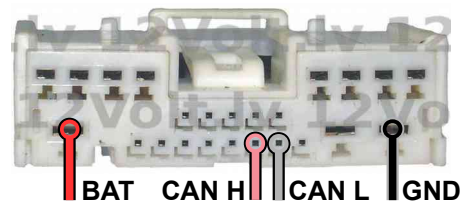


Honda CR-V 2013

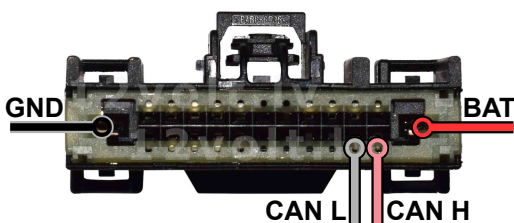


Mazda

5 2006

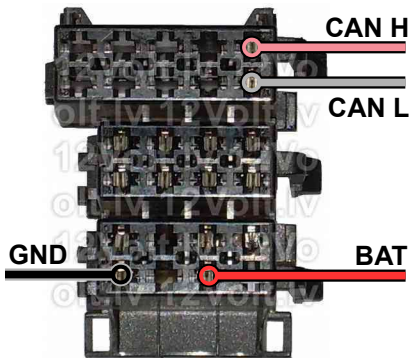


Focus 2011

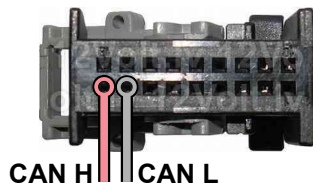


Mercedes Benz

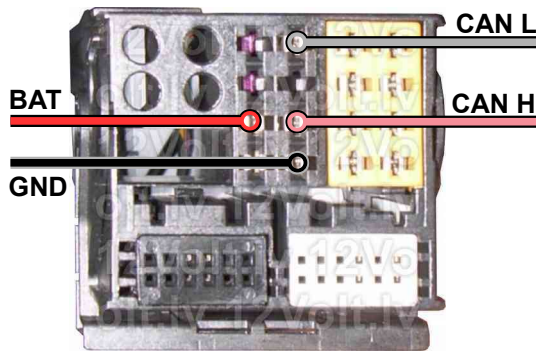
C class, W210



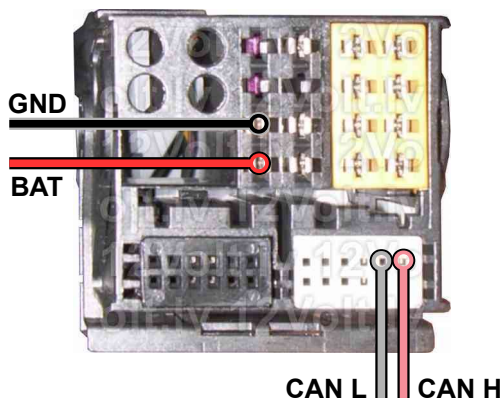
G class 2003



B class, ML class



SLK R171 2006



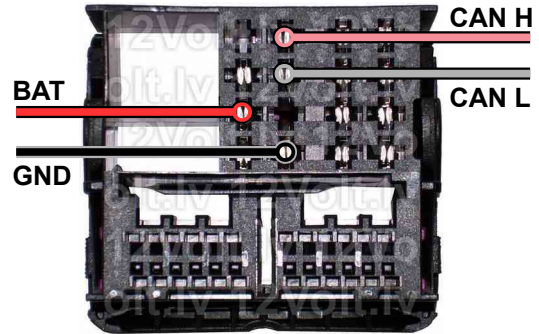
Nissan

Primastar



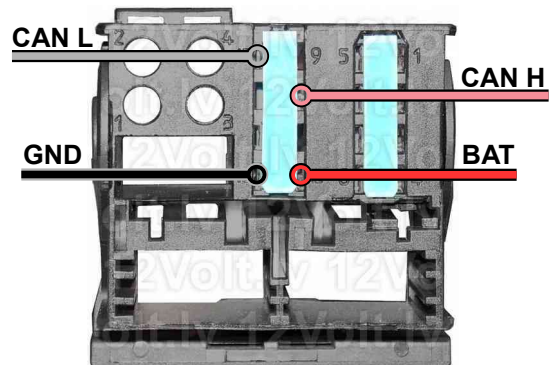
Opel

Astra 2006, 2012, Zafira, Vivaro 2007, Vectra 2006



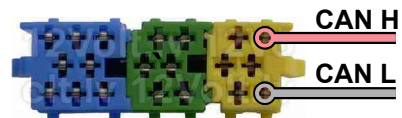
Peugeot

207 2007, 308 2009



Porsche

Cayenne 2003

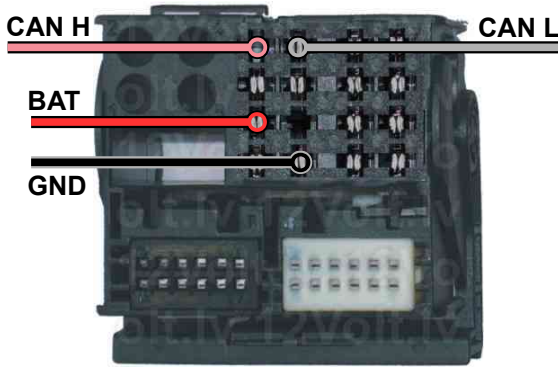


Cayenne S 2007



Renault

Megane 2010



Scenic 2012

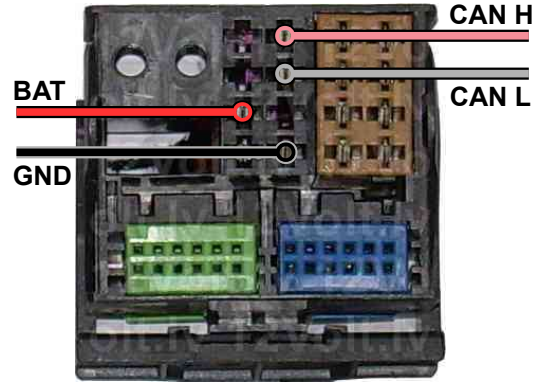


Trafic 2012

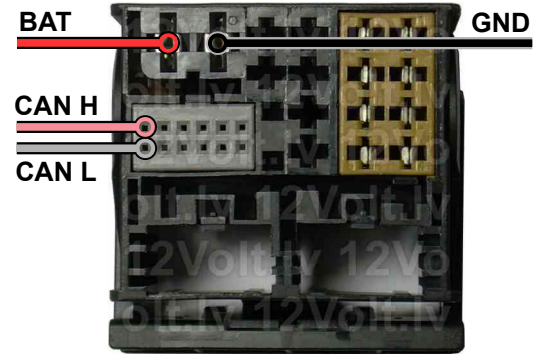


Volkswagen

Multivan 2009, 2011, Golf MK6 2012,
Sharan 2007, Touareg 2006, Passat 2008

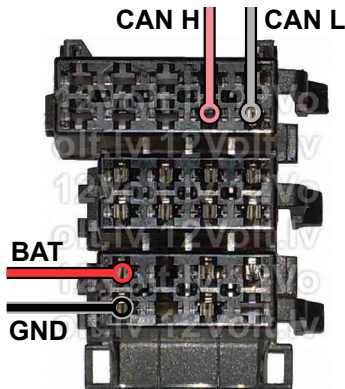


Touran 2015



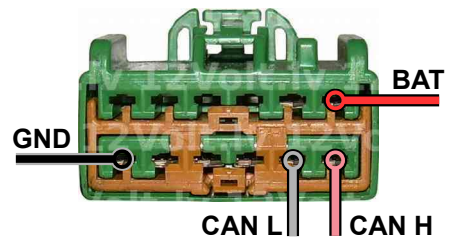
Saab

9-3, 9-5



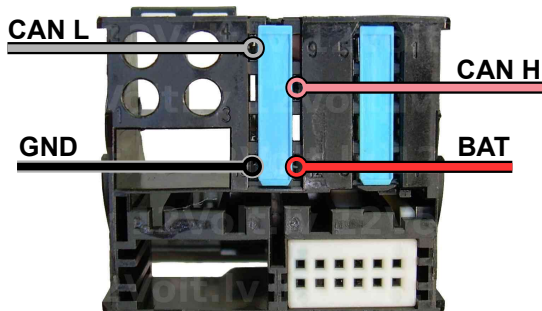
Volvo

S60 2003, V70XC 2006



Toyota

Proace 2014



Document History

Doc. Rev.	Firmware	Date	Description
1.22		02.12.2017	Ford Focus 2011
1.21	#1381	03.11.2017	Fiat Bravo 2011, Honda Civic 5d 2012
1.20		17.07.2017	Mercedes-Benz ML class 2005-2011
1.19		14.06.2017	Change colors of wires: Blue→Violet, Red→ Blue, CAN is now Pink and Gray.
1.18	#1111	22.09.2016	Chrysler Voyager 2008
1.17	#1223	22.09.2016	Dodge Nitro SXT 2007
1.16	#1046	02.08.2016	Citroën Jumpy 2011
1.15	#1046	05.07.2016	Toyota Proace 2014; translation to Latvian on first page
1.14	#1209	20.06.2016	Honda CR-V 2013; actual limit is 700 mA per output
1.13	#1166	12.02.2016	Dodge Durango
1.12	#1150	29.01.2016	Citroën Jumper, VW Passat, Dodge Avenger
1.11	#1126	11.01.2016	Blaupunkt3: adaptive to resistive buttons: control through Jack
1.10		30.10.2015	Sort connectors alphabetically
1.9		30.10.2015	Add connectors: Volkswagen, Mercedes, Volvo, Renault, Jeep, Alfa Romeo, Mazda, Audi, Porsche, Ford, Peugeot; unification of connection lines.
1.8	#1078	22.08.2015	JVC2
1.7	#1066	08.04.2015	AmplifierCAN: SW buttons control VOLUME and FADER settings of original audio amplifier (if it exists) by CAN packets instead of HU parameters by Jack connection
1.6	#989	26.11.2014	Kenwood2 and Clarion2, Document History