R04-AUDI Rear-View Camera Interface

INDIWORK
INDIVIDUAL WORKSHOP

Components

R04-AUDI   POWER / CAN Cable   LVDS Cable   RVC Cable   CVBS Cable

Version Information

Model Name	R04-AUDI
Latest Firmware Date	2015 – 11 - 05
Manual Version	Rev. 1.8
Manual Release Date	2016 – 04 - 14

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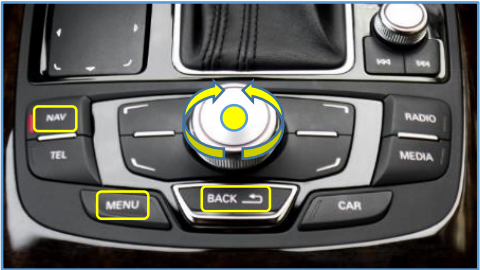
Setting mode

MMI 3G Plus Controller

MMI 3G Controller

Button	Function
MENU	Enter into the setting menu. (press the button 5 seconds)
Selection(⬤)	Select the setting menu and setting values.
BACK	Back to previous menu.
Turn the dial clockwise	Move the menu-pointer and adjust the setting values to UP(↑) and RIGHT(→).
Turn the dial counterclockwise	Move the menu-pointer and adjust the setting values to DOWN(↓) and LEFT(←).
NAV	Change the mode to FVC(Front View Camera / AV1), when press the button short.
i NAV (On the steering wheel)	Change the mode to FVC(Front View Camera / AV1), when press the button 2 seconds.

R04-AUDI Rear-View Camera Interface

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Dip Switch Settings

OFF / ON
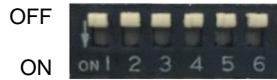
ON: ▼   OFF: ▲

Pin No.	Function	ON(▼) / OFF(▲)
1	Rear View CAM	ON(▼) / OFF(▲)
2	Front View CAM	ON(▼) / OFF(▲)
3	Selection of car model	ON(▼) / OFF(▲)
4		
5		
6		

No.3	No.4	No.5	No.6	Car Models	CAN wires Information
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	A6, A7, A8 / 2012~ (8-inch / 800*480)	HS CAN = Climate controller
OFF(▲)	ON(▼)	OFF(▲)	OFF(▲)	A4 / 2010 (7-inch / 800*480)	HS CAN = Climate controller LS CAN = Gateway+BEM
OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	A4 / 2011 , Q5 / 2012 (7-inch / 800*480)	HS CAN = Climate controller LS CAN = Gateway+BEM
OFF(▲)	OFF(▲)	ON(▼)	OFF(▲)	A4, A5 / 2012~ (7-inch / 800*480)	HS CAN = Climate controller
OFF(▲)	OFF(▲)	ON(▼)	ON(▼)	Q3 / 2012~2013 (7-inch / 800*480)	HS CAN = Climate controller LS CAN = LWR Steuergerät
OFF(▲)	ON(▼)	ON(▼)	ON(▼)	Q3 / 2014~ (7-inch / 800*480)	HS CAN = Climate controller LS CAN = LWR Steuergerät
ON(▼)	ON(▼)	OFF(▲)	OFF(▲)	Q3 / 2014~ (6.5-inch / 400*240)	HS CAN = Climate controller
ON(▼)	OFF(▲)	OFF(▲)	OFF(▲)	Q5 / 2009~2012 Q7 / 2010	HS CAN = Climate controller (7-inch / 800*480)
ON(▼)	OFF(▲)	ON(▼)	OFF(▲)	A6 / 2012~ (6.5-inch / 400*240)	HS CAN = Climate controller
ON(▼)	OFF(▲)	OFF(▲)	ON(▼)	Q5 / 2013 (7-inch / 800*480)	HS CAN = Climate controller
ON(▼)	OFF(▲)	ON(▼)	ON(▼)	A1 / 2015~ (6.5-inch / 800*480)	HS CAN = Climate controller LS CAN = LWR Steuergerät
OFF(▲)	ON(▼)	OFF(▲)	ON(▼)	Q7 / 2013~ (7-inch / 800*480)	HS CAN = Climate controller
OFF(▲)	ON(▼)	ON(▼)	OFF(▲)	A6 / 2010~2011 (7-inch / 800*480)	HS CAN = Climate controller

R04-AUDI Rear-View Camera Interface

INDIWORK — INDIVIDUAL WORKSHOP

Installation Diagram
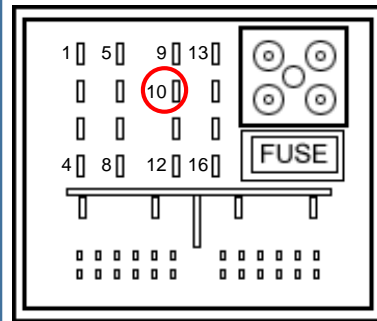
HS CAN HIGH & LOW <A4, A5, A6, A7, A8, Q5, Q7>
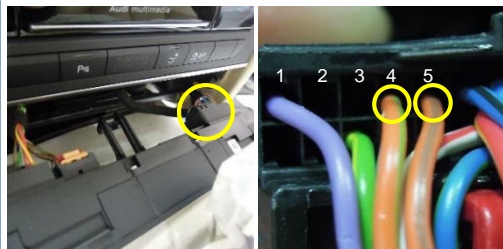
Climate Controller - 20-Pin connector

Pin # 4 = CAN HIGH(Orange / Blue)
or (Orange / Light Green)
Pin # 5 = CAN LOW(Orange / Brown)

*Some vehicles should be connected the 'LS CAN wires'.

MMI DATA wire Information

MMI Head Unit - Main Connector

Pin # 10 = MMI DATA(Yellow / White)
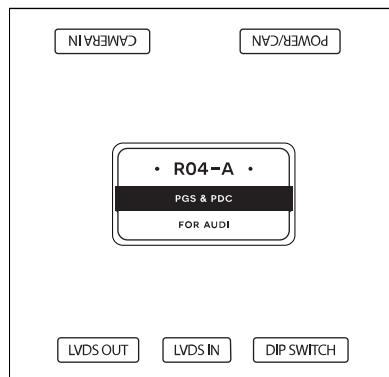or (Light Green)

HS CAN H(White)
HS CAN L(Green)

AUDI MMI(Green)
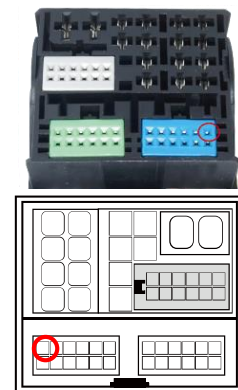✖ LS CAN H, L(*Please refer to next page.)
⊪ GROUND(GND)
☐ BAT+(12V POWER)

REVERSE 12V IN(Orange)✖
(*Not necessary)

POWER / CAN Cable

R04-A
PGS & PDC
FOR AUDI

LVDS OUT   LVDS IN   DIP SWITCH

※ Speciality Connector Type

Original Main-Harness
A6 Low Resolution (6.5 inch)
☐ Pin # = MMI DATA(Yellow / White)

CAMERA IN

POWER / CAN

Pin	Signal
4	GROUND
3	REAR 12V OUT
2	REAR CAMERA
1	

Rear View Camera

Pin	Signal
2	CVBS IN
1	

Front View Camera(or AVM)

Pin	Signal
8	HS CAN L
7	HS CAN H
6	REVERSE 12V IN
5	AUDI MMI
4	LS CAN L
3	LS CAN H
2	GROUND
1	BAT +
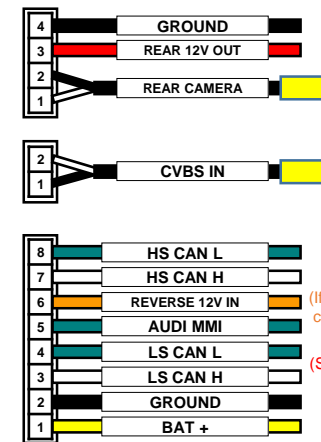
(If reverse gear is not detected via CAN data, connect the power(12V) of the backup light)

(Some vehicles should be connected.)

MMI 3G & 3G+ Head Unit

DIP SWITCH

LVDS IN

LVDS OUT

(Provided LVDS Cable)

Monitor(OEM)

(OEM LVDS Cable)

3

CAN wires information(exceptions)

< 2010, 2011 Audi A4 >

Climate Controller – 20-Pin Connector

POWER / CAN Cable

| HS CAN L |
| HS CAN H |
| REVERSE 12V IN |
| AUDI MMI |
| LS CAN L |
| LS CAN H |
| GROUND |
| BAT + |

Pin # 4 = HS CAN HIGH(Orange / Light Green)

Pin # 5 = HS CAN LOW(Orange / Brown)

Pin # 8 = LS CAN LOW(Orange / Brown)

Pin # 18 = LS CAN HIGH(Orange / Blue)
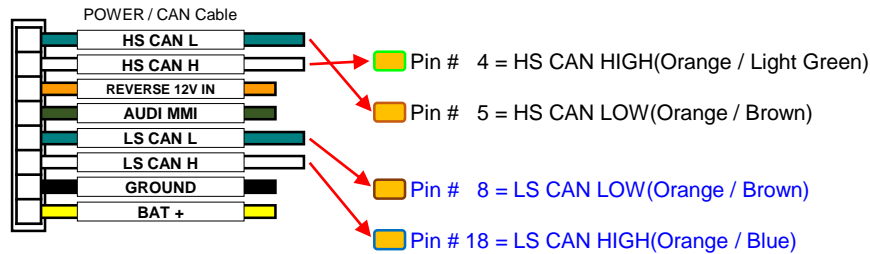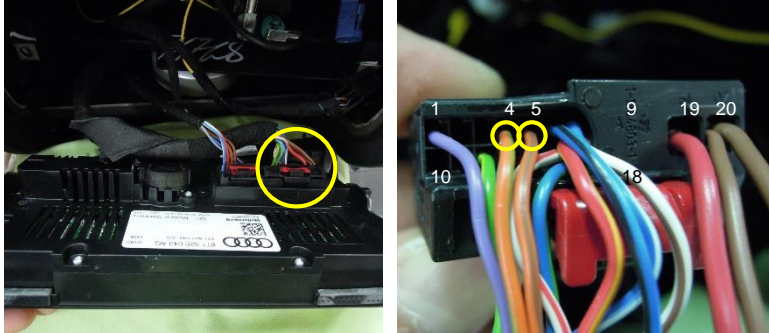
Gateway+BEM Module(on the left of the glovebox) – 20-pin Connector
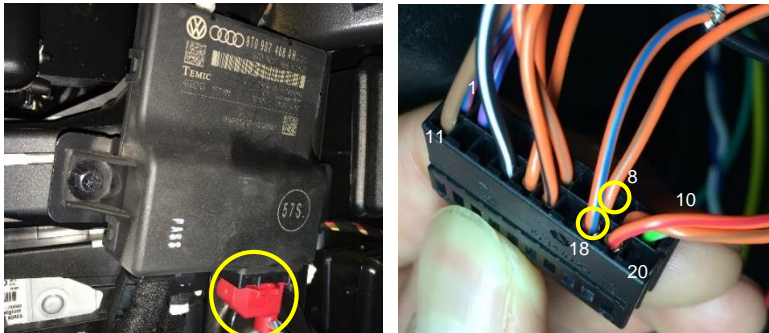
< 2012~ Audi Q3 >

Climate Controller – 16-pin Connector

POWER / CAN Cable

| HS CAN L |
| HS CAN H |
| REVERSE 12V IN |
| AUDI MMI |
| LS CAN L |
| LS CAN H |
| GROUND |
| BAT + |

Pin # 12 = HS CAN LOW(Orange / Brown)

Pin # 13 = HS CAN HIGH(Orange / Light Green)

Pin # 2 = LS CAN HIGH(Orange / Black)

Pin # 3 = LS CAN LOW(Orange / Brown)
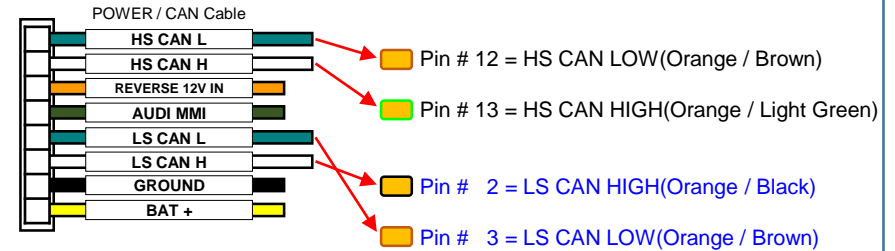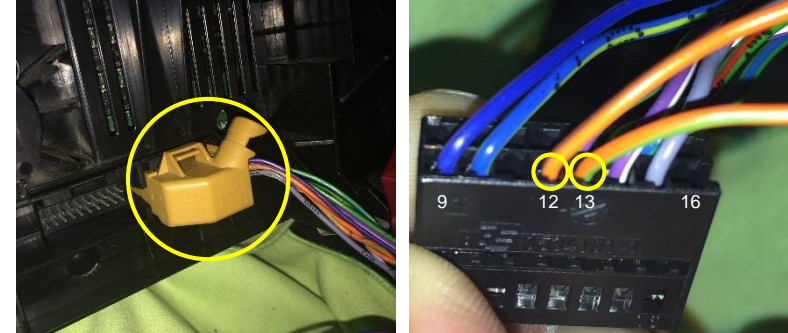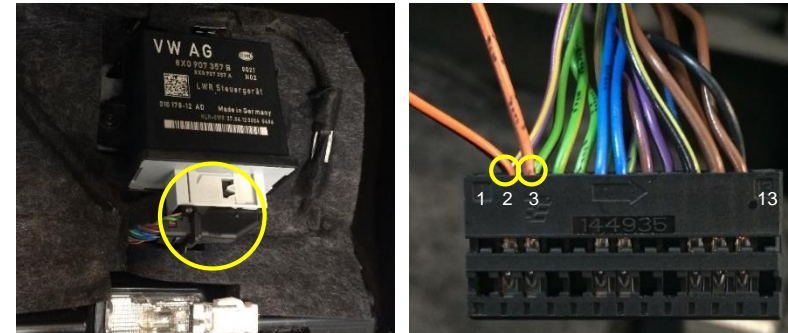
LWR Steuergerät Module(on the glovebox) – 26-Pin Connector
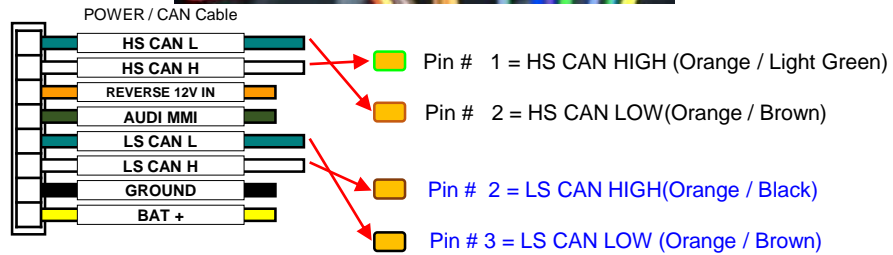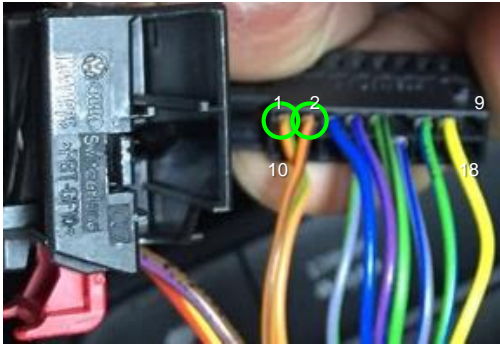(*In case of Q3 / '6.5-inch' model, you do not need to connect LS CAN H, L and MMI wires.)

- Normally, general models of Audi should be just connected the 'PAS CAN High, Low wires' at the climate controller.
- But, some models have different CAN-BUS data. Please refer to above pictures and connect the CAN wires.

CAN wires information(exceptions)

< 2015 Audi A1>

Climate Controller – 20-Pin Connector

POWER / CAN Cable

HS CAN L	
HS CAN H	
REVERSE 12V IN	
AUDI MMI	
LS CAN L	
LS CAN H	
GROUND	
BAT +	

Pin # 1 = HS CAN HIGH (Orange / Light Green)

Pin # 2 = HS CAN LOW(Orange / Brown)

Pin # 2 = LS CAN HIGH(Orange / Black)

Pin # 3 = LS CAN LOW (Orange / Brown)

LWR Steuergerät Module(on the glovebox) – 26-Pin Connector

- Normally, general models of Audi should be just connected the 'HS CAN High, Low wires' at the climate controller.
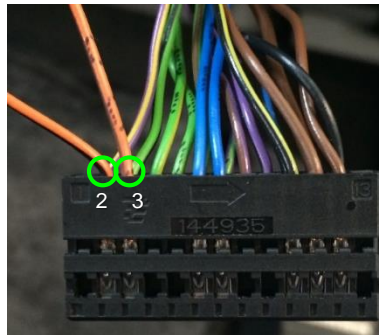- But, some models have different CAN-BUS data. Please refer to above pictures and connect the CAN wires.