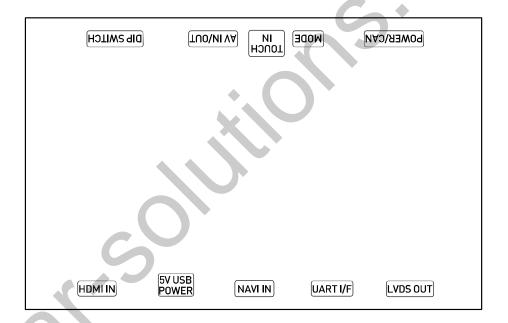
Release Date: 2016 - 06 - 25



Instruction Manual

High-Definition Link for Volkswagen Golf(MK7)



Latest Firmware Date	2015 - 11 - 11		
Manual Version	Rev. 2.9		
Language	English		

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Cautions

Device related

- You should check the names and colors of each wires exactly, before you connect the wires.
 ex) CAN HIGH: White wires / CAN LOW: Blue wires
- The 'POWER / CAN Cable' should always be connected last and be disconnected first.
- The 'Mode Switch' is an optional part to change modes forcibly without CAN-BUS.
 Generally, the CAN-BUS wires are connected for changing modes by original buttons.
- When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

HDMI device-related

- HDMI mode accepts general-screen resolution of HDMI devices(1080P / 1920*1080).
 If screen size of HDMI does not fit on the monitor, should adjust screen size & position in 'settings mode'.
- Generally, '5V 1A Power output(5V USB POWER)' is a standard voltage for charging smartphone. If you need higher voltage than 5V, you should add a separate power supply.

Navigation(GPS) box-related

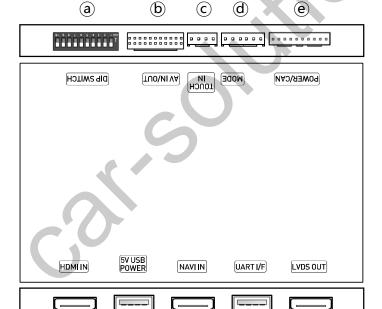
- When you connect the power wires(B+, ACC) to the navigation(GPS) box,
 the 'NAVI 12V OUT' wire supported by the device should be spliced with an ACC wire of navigation box
- After installation is done, select an applicable navigation(GPS) box model in the 'Navigation model selection menu' of setting mode.
- The navigation box should be powered off before unplugging the HDMI cable.

Dimension





Exterior



(h)

(i)

(j)

(f)

 \bigcirc

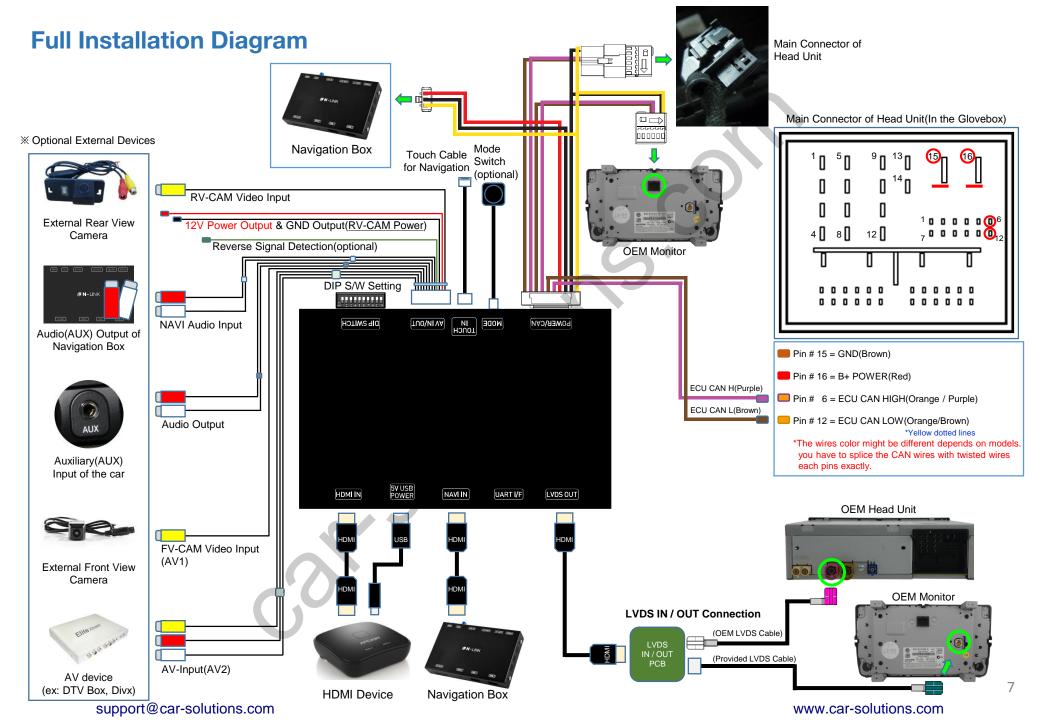
- a DIP SWITCH
- (b) AV IN / OUT
- © TOUCH IN (Connect To Set top Device)
- d MODE
- e POWER / CAN
- (f) HDMI IN
- **9** 5V USB POWER
- (h) NAVI IN
- (i) UART I/F
- (j) LVDS OUT

Components

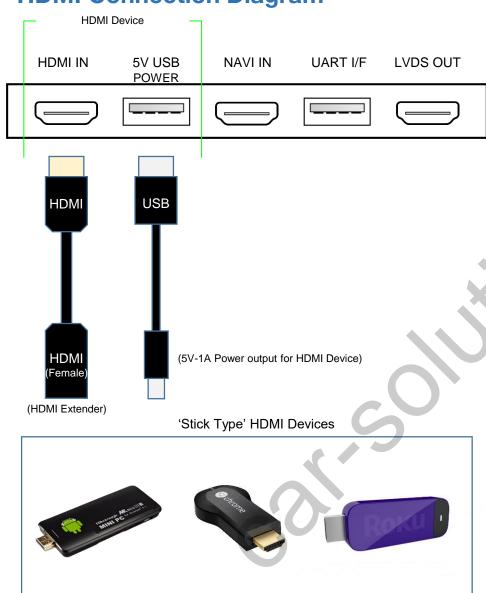


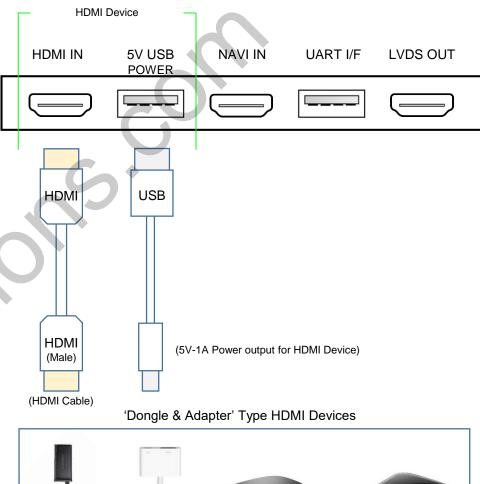
Optional Parts(sold separately)





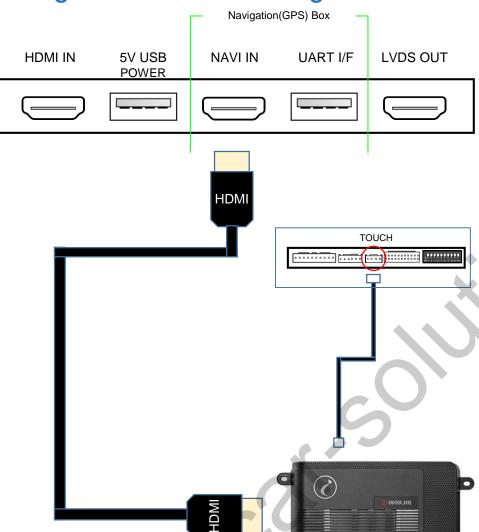
HDMI Connection Diagram



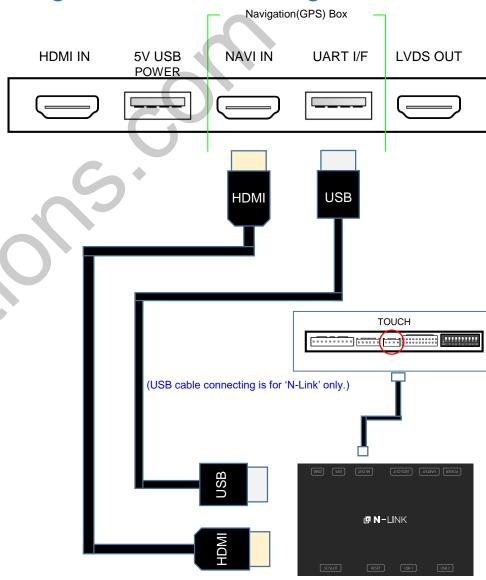


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Navigation Connection Diagram



Navigation Connection Diagram



I-NAVI X1 CUBE

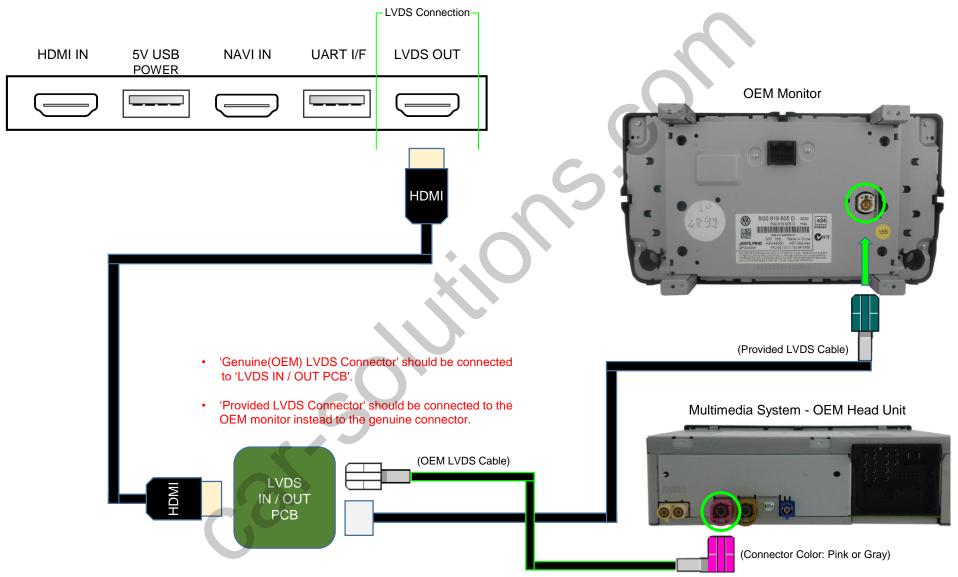
Microcity - N-Link

Compatibility Chart for Navigation(GPS) box models

Model		Country	Dip S/W (Navigation)		Required Parts	
See that the terms of the terms	MICROCITY N-Link	South Korea	-	HDMI Cable (HDMI to HDMI)	USB A-A Cable (USB to USB)	Hazard Module (Refer to Page.11)
	iNAVI X1 CUBE	South Korea	OFF(↑): 1, 2, 3, 4		HDMI Cable (HDMI to HDMI)	
Atlan <mark>3D</mark>	MYVI MS1400 Digital	South Korea	OFF(↓): 1, 2, 3 ON(↑) : 4		HDMI Cable (HDMI to HDMI)	

- The device supports navigation(GPS) box models equipped with 'Digital video output'.
- It does not support the 'RGB video signals'. support@car-solutions.com

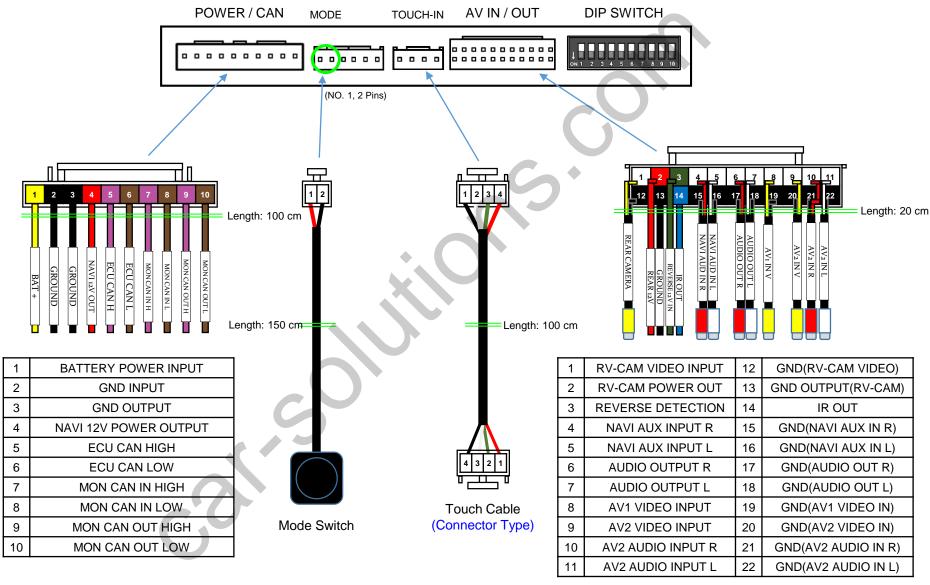
LVDS Connection Diagram



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Body Connector specifications



The colors of each wires can be changed under manufacturer's circumstance.

Car Compatibility Chart

Car Models	Production Year	Specific Models
Golf	2010 -	MK7
Polo	2014 -	MK5
		•



- VW Golf Discover Media(5.8-inch)
- VW Golf Composition Media(5.8-inch)
- VW Polo Composition Media(6.5-inch)



The device supports the Volkswagen original screen equipped with '4-Pin LVDS round connector' only.

Please check the specification of original LVDS connector on the sidelines of a production year.

Activation by original buttons



Head Unit Controllers



Steering wheel buttons

Button Function		Operation	Remarks		
Changing Modes		Press the button 2 seconds long.	Order: HDMI \rightarrow NAVI \rightarrow AV2 \rightarrow OEM		
1	Shortcut to Each modes	Press the button 2 times quickly. < OEM → NAVI >			
MENU		Press the button 3 times quickly. < OEM → AV2 >			
1 MENU	System Locking / Unlocking	Press the button 10 seconds long.	If you visit car service center, you can lock the all functions of the device. It is only possible to use the OEM functions under it is locked.		
Buttons marked with yellow	Back to OEM	Press the buttons short.	Return to the OEM mode in any modes.		
2 ▽(Down)	Changing mode to Front View CAM mode(AV1)	Press the button 2 seconds long.	It changes the screen from any modes to AV1 mode directly.		
3 ENTER	Reset to factory default setting and power.	Press the button 10 seconds long.	You can use this function when you get in trouble to see the screen while setting the screen.		
4 CAR	Enter into the setting menu	Press the button 5 seconds long.	All functions of setting menu is controlled by a touch screen of the OEM monitor.		

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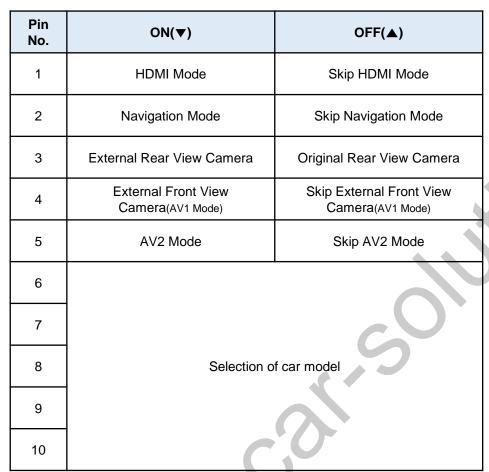
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DIP Switch Settings







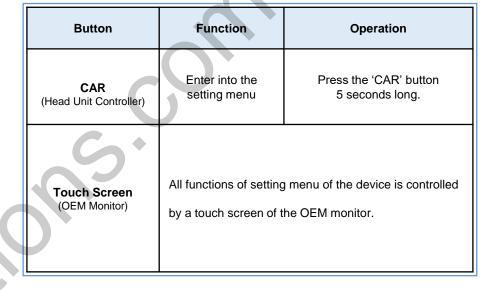


No.6	No.7	No.8	No.9	No.10	Car Models
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	Golf - 5.8-inch Screen (Composition Media / 400*240)
ON(▼)	OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	Golf / 8-inch Screen (Discover Pro / 800*480)
ON(▼)	OFF(▲)	OFF(▲)	ON(▼)	OFF(▲)	Golf, Polo / 6.5-inch Screen (Composition Media / 800*480)
1					

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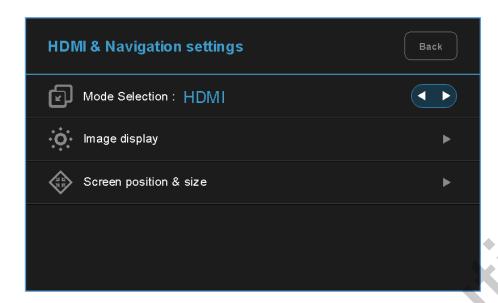


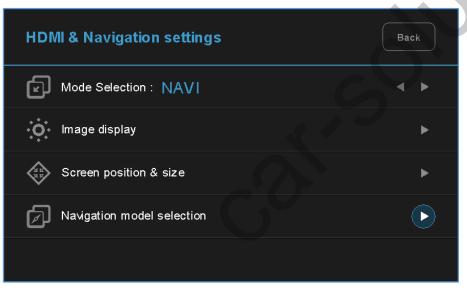


1. Enter into the setting menu.

<Press the 'CAR' button 5 seconds long.>

- HDMI & Navigation settings
- Rear view camera settings
- AV-input settings
- System settings
- System information





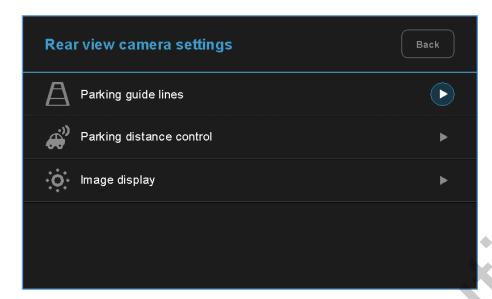
2. HDMI mode settings

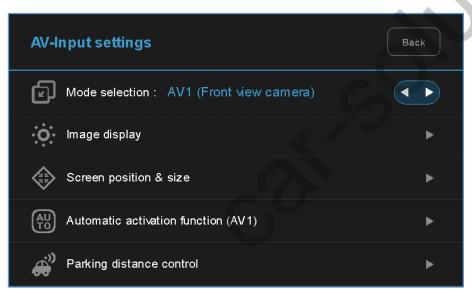
- Mode selection: HDMI ↔ NAVI
- Image display
 - = Adjust the values of brightness and contrast Red-Green-Blue colors of HDMI display.
- Screen position & size
 - = Entry Disabled / Not applicable.

3. NAVI mode settings

- Mode selection: NAVI ↔ HDMI
- Image display
 - = Adjust the values of brightness and contrast Red-Green-Blue colors of NAVI display.
- Screen position & size
 Entry Disabled / Not applicable.
- Navigation model selection
 - Default
 CUBE
- 3 Class settop

- (4) MS1400
- ⑤ iQ 3D 5000



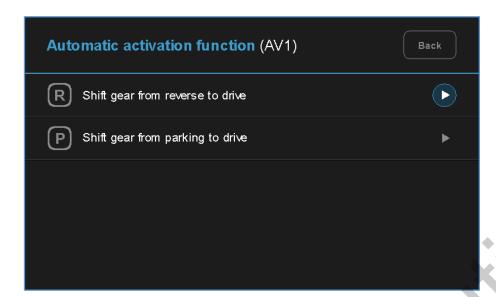


4. Rear view camera settings

- Parking guide lines
 - = Adjust position of parking guide lines and select the lines 'ON or OFF'.
- Parking distance control
 - = Adjust position of Parking Distance Control sensors to 'LEFT or RIGHT' and select PDC function 'ON or OFF'.
- Image display
 - Adjust the values of brightness and contrast Red-Green-Blue colors of Rear view camera display.

5. AV1(Front view camera) settings

- Mode selection: AV1(Front view camera) ↔ AV2
- Image display
 - = Adjust the values of brightness and contrast Red-Green-Blue colors of AV1(Front view camera) display.
- Screen position & size
- = Entry Disabled / Not applicable.
- Automatic activation function(AV1)
- = *Please refer to next page.
- Parking distance control
 - Adjust position of Parking Distance Control sensors to 'LEFT or RIGHT' and select PDC function 'ON or OFF'. www.car-solutions.com





6. Automatic activation function(AV1)

- Shift gear from reverse to drive
- Shift gear from parking to drive
 - * When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.



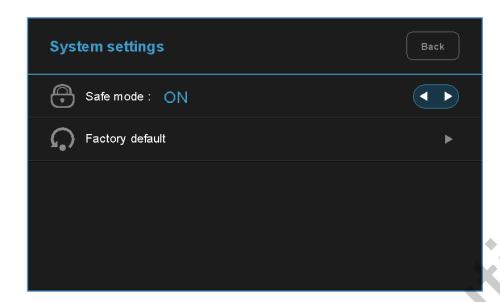
7. AV2 settings

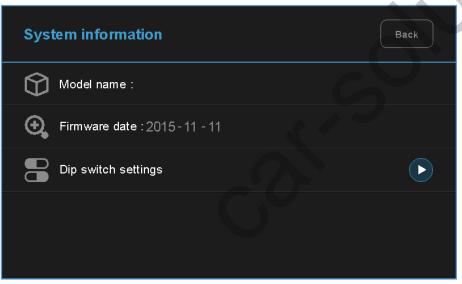
- Mode selection: AV2 ↔ AV1(Front view camera)

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- Image display
 - = Adjust the values of brightness and contrast Red-Green-Blue colors of AV2 display.
- Screen position & size
 - = Entry Disabled / Not applicable.

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8. System settings

- Safe mode
 - = Select the one of two between 'ON and OFF'.
 - * If you select 'ON', 3 modes(HDMI, NAVI and AV2) will be faded out when the car is driven.
- Factory default
 - = Reset all setting values to factory default setting.

9. System information

- Mode name:
- Firmware date: 2015 11 11(Latest firmware date)
- = You can check the current firmware version date.
- Dip switch settings
 - = You can check the current positions of dip switch settings.

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