Instruction Manual

High-Definition Link for Chevrolet(GM)
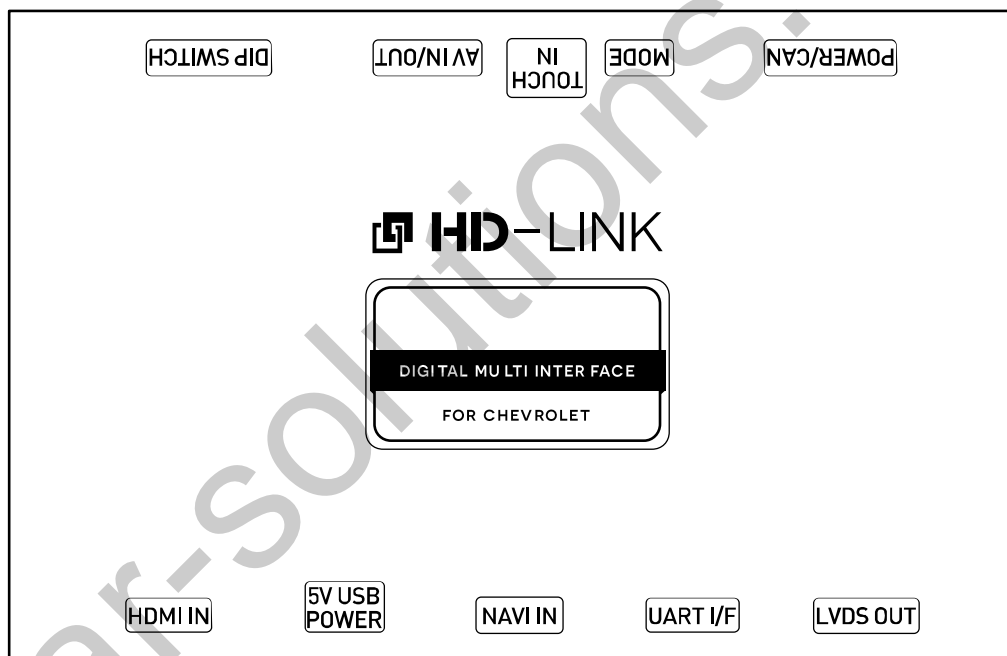
Latest Firmware Date	2018 - 06 - 22
Manual Version	Rev. 2.3
Language	English

Contents

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**
  - 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

Length: 91 mm

Height: 22 mm

Width: 142 mm

HD-LINK
DIGITAL MULTI INTERFACE
FOR CHEVROLET

Exterior

ⓐ ⓑ ⓒ ⓓ ⓔ

DIP SWITCH   AV IN/OUT   TOUCH IN   MODE   POWER/CAN

HD-LINK
DIGITAL MULTI INTERFACE
FOR CHEVROLET

HDMI IN   5V USB POWER   NAVI IN   UART I/F   LVDS OUT

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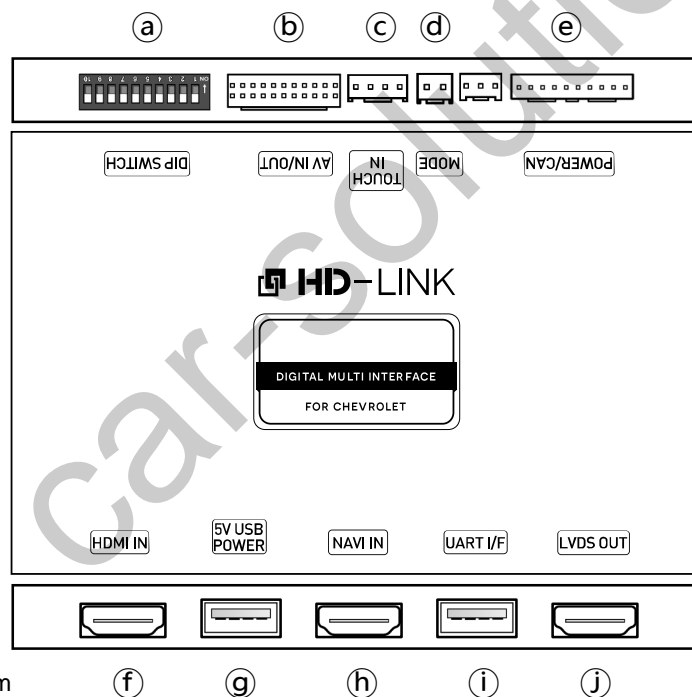
ⓐ	DIP SWITCH
ⓑ	AV IN / OUT
ⓒ	TOUCH IN (Connect To Set top Device)
ⓓ	MODE
ⓔ	POWER / CAN
ⓕ	HDMI IN
ⓖ	5V USB POWER
ⓗ	NAVI IN
ⓘ	UART I/F
ⓙ	LVDS OUT

Components

Power / CAN

LVDS CABLE

LVDS PCB
※ Sub board Compatibility
Please refer to page14

HDMI Cable
(FOR LVDS)

AV IN / OUT CABLE

5-pin Micro USB Cable

Optional Parts(sold separately)

Mode Switch

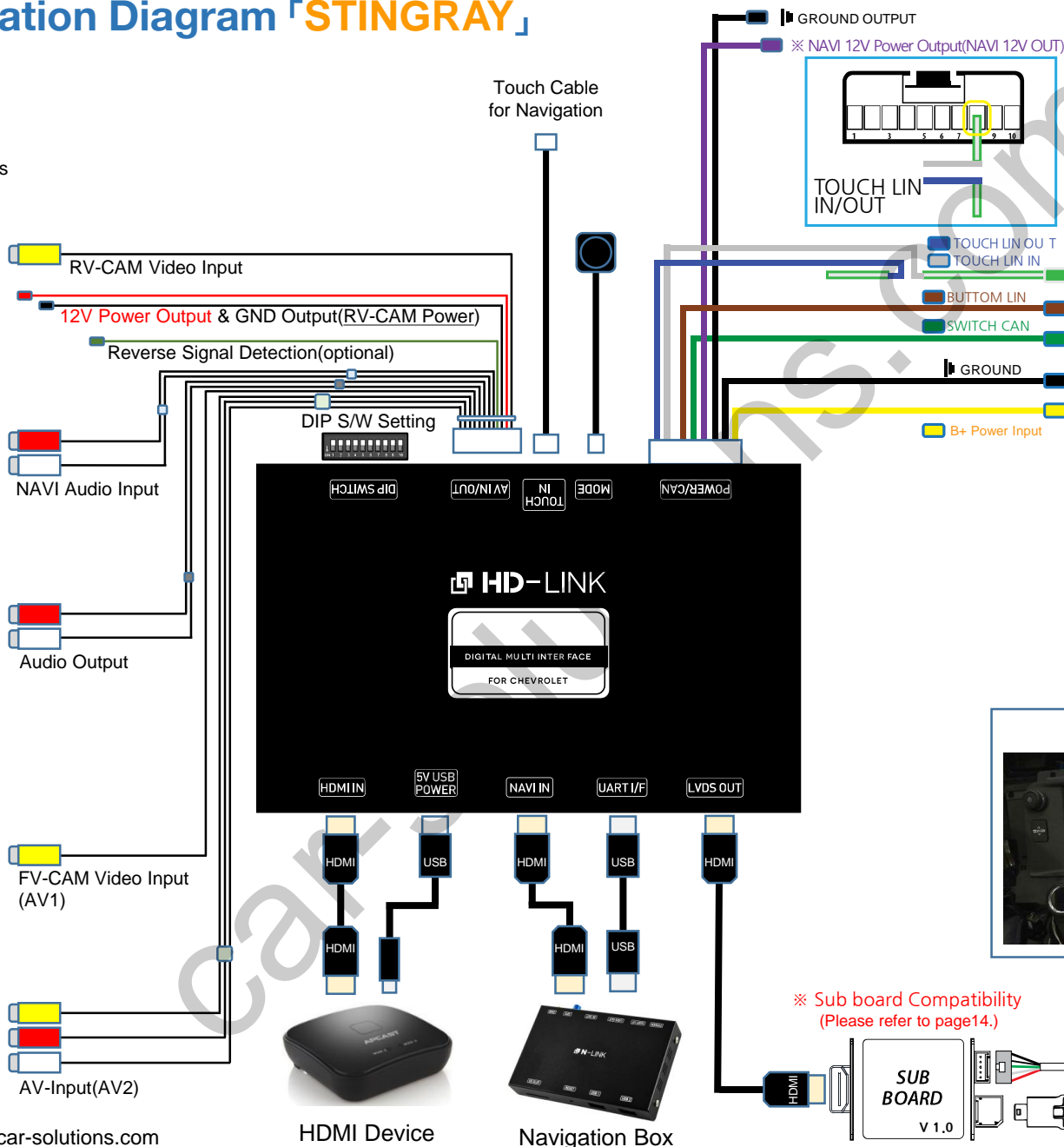HDMI Extender
(For stick type HDMI device)
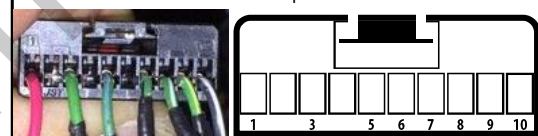

LVDS CABLE

- Suburban
- 2016 GMC Canyon

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Full Installation Diagram「STINGRAY」

GROUND OUTPUT

※ NAVI 12V Power Output(NAVI 12V OUT)

Touch Cable for Navigation

Corvette Stingray MY-LINK

Head Unit - 10pin Connector

TOUCH LIN IN/OUT

※ Optional External Devices

External Rear View Camera

RV-CAM Video Input

12V Power Output & GND Output(RV-CAM Power)

Reverse Signal Detection(optional)

TOUCH LIN OUT
TOUCH LIN IN

BUTTOM LIN

SWITCH CAN

GROUND

Audio(AUX) Output of Navigation Box

NAVI Audio Input

DIP S/W Setting

B+ Power Input

	PIN # 8 = TOUCH LIN(Green/White)
	PIN # 5 = BUTTOM LIN(Green/Skyblue)
	PIN # 3 = SWITCH CAN (Green)
	PIN # 10 = GND (Black/White)
	PIN # 1 = B+ POWER(Red/Yellow)

Auxiliary(AUX) Input of the car

DIP SWITCH   AV IN/OUT   TOUCH IN/OUT   MODE   POWER/CAN

HD-LINK

DIGITAL MULTI INTER FACE

FOR CHEVROLET

Audio Output

HDMI IN   5V USB POWER   NAVI IN   UART I/F   LVDS OUT

Corvette Stingray MY-LINK

External Front View Camera

FV-CAM Video Input (AV1)

HDMI   USB   HDMI   USB   HDMI

HDMI   HDMI   USB

※ Sub board Compatibility
(Please refer to page14.)

AV device
(ex: DTV Box, Divx)

AV-Input(AV2)

HDMI Device

Navigation Box

HDMI

SUB BOARD
V 1.0

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6

Full Installation Diagram「IMPALA, 2016 MALIBU, EQUINOX」
「Camaro,Volt」

※ Optional External Devices

External Rear View Camera

Audio(AUX) Output of Navigation Box

Auxiliary(AUX) Input of the car

External Front View Camera

AV device (ex: DTV Box, Divx)

RV-CAM Video Input

12V Power Output & GND Output(RV-CAM Power)

Reverse Signal Detection(optional)

NAVI Audio Input

DIP S/W Setting

Audio Output

FV-CAM Video Input (AV1)

AV-Input(AV2)

GROUND OUTPUT

※ NAVI 12V Power Output(NAVI 12V OUT)

Touch Cable for Navigation

OEM Monitor Cable

HD-LINK

DIGITAL MULTI INTER FACE

FOR CHEVROLET

DIP SWITCH | AV IN/OUT | TOUCH IN | MODE | POWER/CAN

HDMI IN | 5V USB POWER | NAVI IN | UART I/F | LVDS OUT

HDMI | USB | HDMI | USB | HDMI

HDMI | HDMI | USB

HDMI Device

Navigation Box

Chevrolet Impala, Malibu MY-LINK
Head Unit - 10pin Connector

- PIN # 8 = TOUCH LIN(Green/White)
- PIN # 5 = BUTTOM LIN(Green/Skyblue)
- PIN # 3 = SWITCH CAN (Green)
- PIN # 10 = GND (Black/White)
- PIN # 1 = B+ POWER(Red/Yellow)

Chevrolet MY-LINK LVDS & Main Harness

Malibu

Impala

※ Sub board Compatibility
(Please refer to page14)

SUB BOARD
V 1.0

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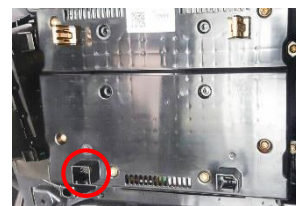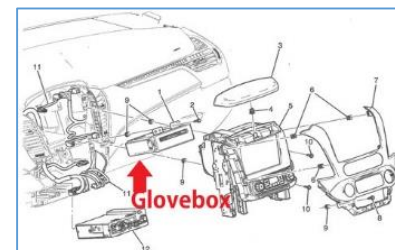
Full Installation Diagram
「Suburban , Silverado
GMC Canyon, Yukon」

※ Optional External Devices

GROUND OUTPUT

※ NAVI 12V Power Output(NAVI 12V OUT)

Touch Cable
for Navigation

OEM Monitor Cable

External Rear View
Camera

RV-CAM Video Input

12V Power Output & GND Output(RV-CAM Power)

Reverse Signal Detection(optional)

Audio(AUX) Output of
Navigation Box

NAVI Audio Input

DIP S/W Setting

Chevrolet SUBURBAN MY-LINK
Head Unit - 10pin Connector

1 5
6 10

- PIN # 8 = TOUCH LIN(Green/White)
- PIN # 5 = BUTTOM LIN(Green/Skyblue)
- PIN # 3 = SWITCH CAN (Green)
- PIN # 10 = GND (Black/White)
- PIN # 1 = B+ POWER(Red/Yellow)

Auxiliary(AUX)
Input of the car

Audio Output

HD-LINK

DIGITAL MULTI INTER FACE

FOR CHEVROLET

DIP SWITCH   AV IN/OUT   TOUCH IN   MODE   POWER/CAN

HDMI IN   5V USB POWER   NAVI IN   UART I/F   LVDS OUT

GMC Canyon

※ behind the My-link

※ behind the glove box

Glovebox

External Front View
Camera

FV-CAM Video Input
(AV1)

HDMI   USB   HDMI   USB   HDMI

HDMI   HDMI   USB

AV device
(ex: DTV Box, Divx)

AV-Input(AV2)

Elite Xtrem

HDMI Device

Navigation Box

N-LINK

※ Sub board Compatibility
(Please refer to page14)

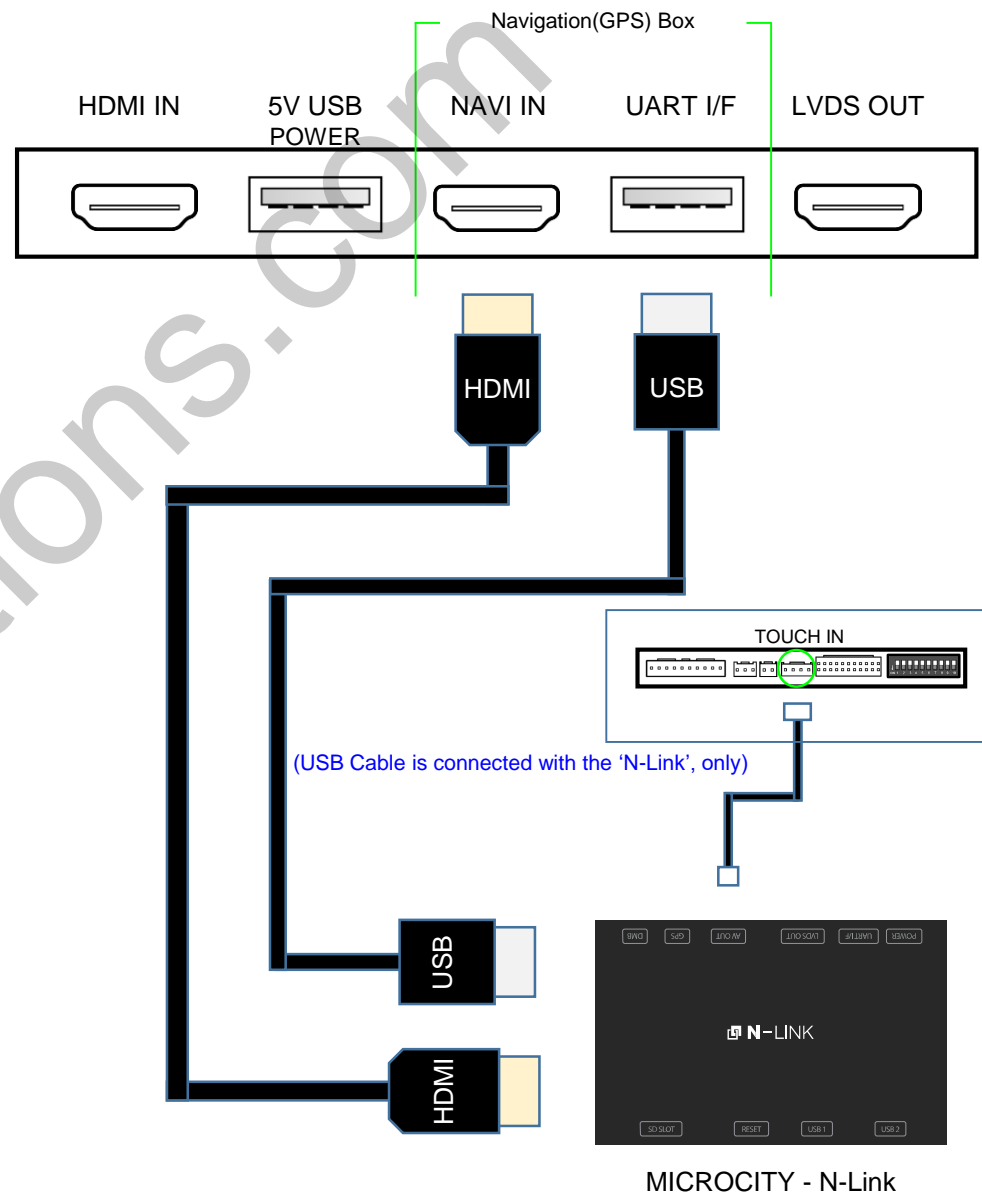SUB BOARD
V 1.1

HDMI

OEM LVDS Cable

Provided LVDS Cable

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8

HDMI Connection Diagram

HDMI Device

| HDMI IN | 5V USB POWER | NAVI IN | UART I/F | LVDS OUT |

HDMI

USB

HDMI
(Female)

(HDMI Extender)

(5V-1A Power output for HDMI Device)

'Stick Type' HDMI Devices

HDMI Device

| HDMI IN | 5V USB POWER | NAVI IN | UART I/F | LVDS OUT |

HDMI

USB

HDMI
(Male)

(HDMI Cable)

(5V-1A Power output for HDMI Device)

'Dongle & Adapter' Type HDMI Devices

Navigation Connection Diagram

Navigation(GPS) Box

| HDMI IN | 5V USB POWER | NAVI IN | UART I/F | LVDS OUT |

HDMI

HDMI

TOUCH IN

HDMI

iNAVI – X1 CUBE

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Navigation Connection Diagram

Navigation(GPS) Box

| HDMI IN | 5V USB POWER | NAVI IN | UART I/F | LVDS OUT |

HDMI

USB

TOUCH IN

(USB Cable is connected with the 'N-Link', only)

USB

HDMI

N-LINK

MICROCITY - N-Link

Compatibility Chart for Navigation(GPS) box models

Model		Country	Dip S/W (Navigation)	Required Parts		
	MICROCITY N-Link	South Korea	-	HDMI Cable	USB A-A Cable	Hazard Module
	iNAVI X1 CUBE	South Korea	OFF(↑): 1, 2, 3, 4	HDMI Cable		
	MYVI MS1400 Digital	South Korea	OFF(↓): 1, 2, 3 ON(↑) : 4	HDMI Cable		

- This device supports navigation(GPS) box models equipped with 'Digital video output'.

- It does not support the 'RGB video signals'.

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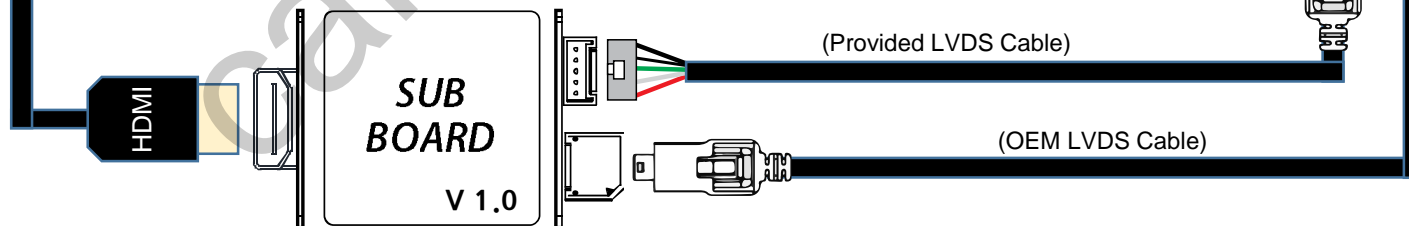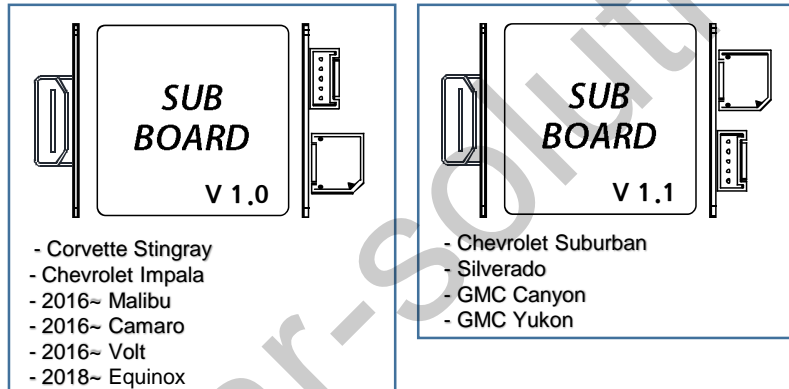
LVDS Connection Diagram

HDMI IN   5V USB POWER   NAVI IN   UART I/F   LVDS OUT
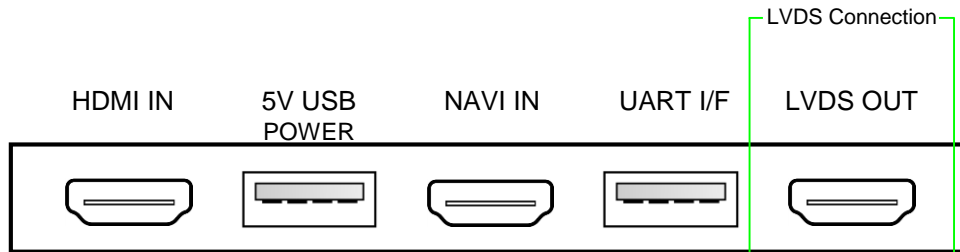
LVDS Connection

- • 'Genuine(OEM) LVDS connector' should be connected to 'LVDS IN / OUT PCB'.

- • 'Provided LVDS connector' should be connected to the monitor instead to the genuine connector.

HDMI

※ Sub board Compatibility Sheet

SUB BOARD
V 1.0

- Corvette Stingray
- Chevrolet Impala
- 2016~ Malibu
- 2016~ Camaro
- 2016~ Volt
- 2018~ Equinox

SUB BOARD
V 1.1

- Chevrolet Suburban
- Silverado
- GMC Canyon
- GMC Yukon

SUB BOARD
V 1.0

HDMI

(Provided LVDS Cable)

(OEM LVDS Cable)

2016 GMC CANYON
※ behind the My-link
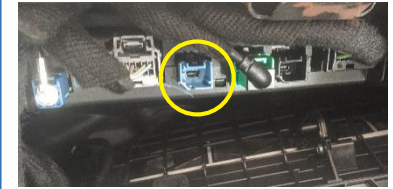
Chevrolet Suburban
※ behind the glove box

Chevrolet Impala
※ behind the Monitor

2016 Chevrolet Malibu
※ behind the Monitor

Chevrolet Stingray
※ behind the Monitor

Hazard Module Connection

POWER / CAN   MODE TOUCH-IN   AV IN / OUT   DIP SWITCH

ON 1 2 3 4 5 6 7 8 9 10

1 2 3 | 4 5 6 7 | 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22

REAR CAMERA
REAR 12V
REVERSE 12V IN
NAVI AUD IN R
NAVI AUD IN L
AUDIO OUT R
AUDIO OUT L
AV1 IN V
AV2 IN V
AV2 IN R
AV2 IN L

GROUND
IR OUT

IR IN
GND
(20 cm)

New Version Module

Hazard Module (4-Pin)

(For Only Benz)

Benz Hazard Light

BMW/AUDI Hazard Light

(100 cm)
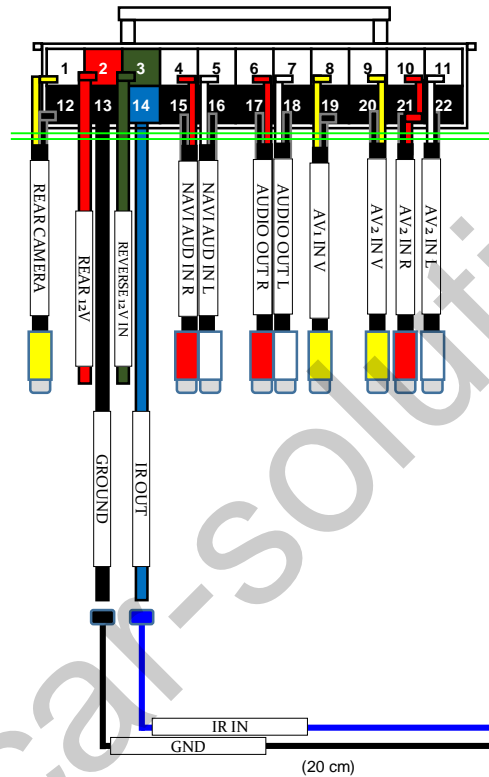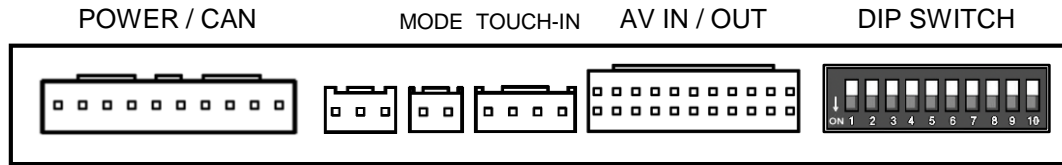
IMPALA - Hazard button

4-pin Hazard connector

🟩 PIN # 2 = Hazard(-) (Green/White)

*Hazard Module is just available with 'Smart Drive function of N-Link' navigation in South Korea.

Body Connector specifications

POWER / CAN   MODE   TOUCH-IN   AV IN / OUT   DIP SWITCH

ON 1 2 3 4 5 6 7 8 9 10

Length : 100 cm

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

BAT +
GROUND
GROUND
NAVI 12V OUT
SW CAN H
BUTTON LIN IN
TOUCH LIN IN
TOUCH LIN OUT

Length: 150 cm   Length: 100 cm

Push Switch

Connector type

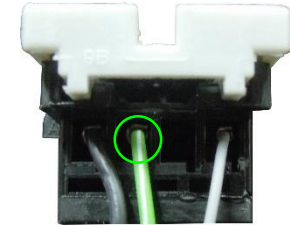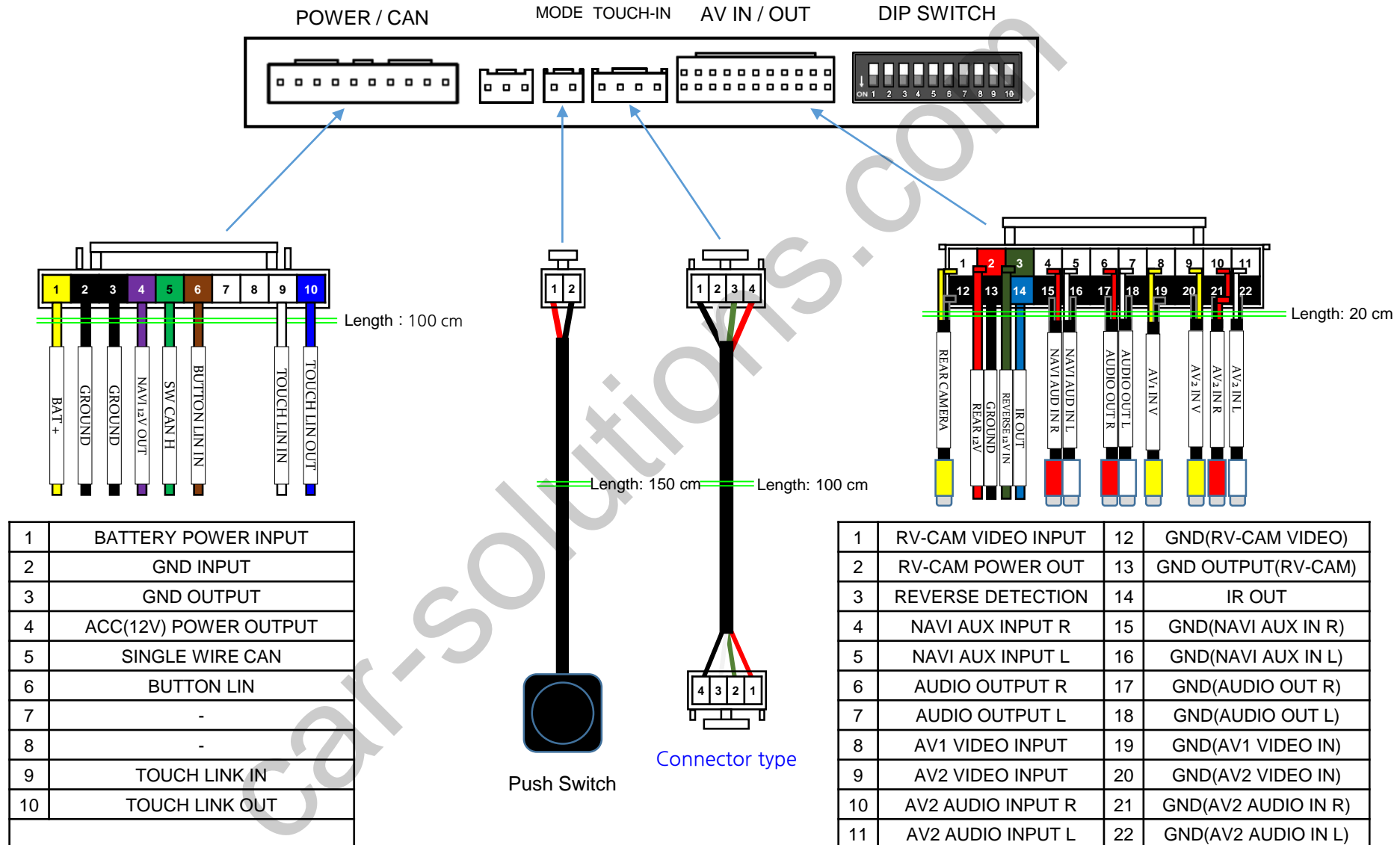| 1 | BATTERY POWER INPUT |
2	GND INPUT
3	GND OUTPUT
4	ACC(12V) POWER OUTPUT
5	SINGLE WIRE CAN
6	BUTTON LIN
7	-
8	-
9	TOUCH LINK IN
10	TOUCH LINK OUT

Length: 20 cm

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |

REAR CAMERA
REAR 12V
GROUND
REVERSE 12V IN
IR OUT
NAVI AUD IN R
NAVI AUD IN L
AUDIO OUT R
AUDIO OUT L
AV1 IN V
AV2 IN V
AV2 IN R
AV2 IN L

1	RV-CAM VIDEO INPUT	12	GND(RV-CAM VIDEO)
2	RV-CAM POWER OUT	13	GND OUTPUT(RV-CAM)
3	REVERSE DETECTION	14	IR OUT
4	NAVI AUX INPUT R	15	GND(NAVI AUX IN R)
5	NAVI AUX INPUT L	16	GND(NAVI AUX IN L)
6	AUDIO OUTPUT R	17	GND(AUDIO OUT R)
7	AUDIO OUTPUT L	18	GND(AUDIO OUT L)
8	AV1 VIDEO INPUT	19	GND(AV1 VIDEO IN)
9	AV2 VIDEO INPUT	20	GND(AV2 VIDEO IN)
10	AV2 AUDIO INPUT R	21	GND(AV2 AUDIO IN R)
11	AV2 AUDIO INPUT L	22	GND(AV2 AUDIO IN L)

- The colors of each wires can be changed under manufacturer's circumstance.
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Car Compatibility Chart

Car Models	Production Year	Specific Models
corvette stingray	2015~	C7 (8 inch Equipped with MyLink)
Equinox	2018~	Equipped with MyLink
Chevrolet Suburban	2015~	Equipped with MyLink
Chevrolet Impala	2015~	Equipped with MyLink
Chevrolet Malibu	2016~	8 inch Equipped with MyLink
GMC Canyon	2016~	Equipped with MyLink
GMC Yukon	2016~	Equipped with MyLink
CAMARO 6th GEN	2016~	Equipped with MyLink
Volt	2016~	8 inch Equipped with MyLink

This device is used in combination with Chevrolet(GM) INFOTAINMENT system.

This device supports the Chevrolet(GM) original screen & Head unit equipped with 'LVDS connector' only.

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

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Activation by original buttons of 「Corvette Stingray」

Stingray – MyLink

Button	Function	Operation	Remarks
1 HOME	Changing Modes	Press the button 2 seconds long.	Order: HDMI → NAVI → AV1 → AV2 → OEM
1 HOME	Shortcut to Each modes	Press the button 2 times quickly. < OEM → NAVI > Press the button 3 times quickly. < OEM → AV1 > Press the button 4 times quickly. < OEM → AV2 >	
1 HOME	System Locking / Unlocking	Press the button 10 seconds long.	If you visit car service center, you can lock the all functions of this 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 BACK	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.
2 BACK	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.
Touch the oem screen	Enter into the setting menu	Touch the oem screen 5 seconds long.	All functions of setting menu of this device are controlled by a touch screen of the OEM monitor.

Activation by original buttons of 「Chevrolet Impala, 2016 Malibu」

Impala

Malibu

Impala, 2016 Malibu – MyLink

Button	Function	Operation	Remarks
1 HOME	Changing Modes	Press the button 2 seconds long.	Order: HDMI → NAVI → AV1 → AV2 → OEM
1 HOME	Shortcut to each modes	Press the button 2 times quickly. < OEM → NAVI > Press the button 3 times quickly. < OEM → AV1 > Press the button 4 times quickly. < OEM → AV2 >	
1 HOME	System Locking / Unlocking	Press the button 10 seconds long.	If you visit car service center, you can lock the all functions of this 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 BACK	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.
2 BACK	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.
Touch the oem screen	Enter into the setting menu	Touch the oem screen 5 seconds long.	All functions of setting menu of this device are controlled by a touch screen of the OEM monitor.

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DIP Switch Settings

OFF / ON `ON | 1 2 3 4 5 6 7 8 9 10`

ON: ▼ OFF: ▲

Pin No.	ON(▼)	OFF(▲)
1	HDMI Mode	Skip HDMI Mode
2	Navigation Mode	Skip Navigation Mode
3	External Rear View Camera	Original Rear View Camera
4	External Front View Camera(AV1 Mode)	Skip External Front View Camera(AV1 Mode)
5	AV2 Mode	Skip AV2 Mode
6	Selection of car model	
7	Skip Climate interlocking	Climate interlocking
8	Selection of car model	
9		
10		

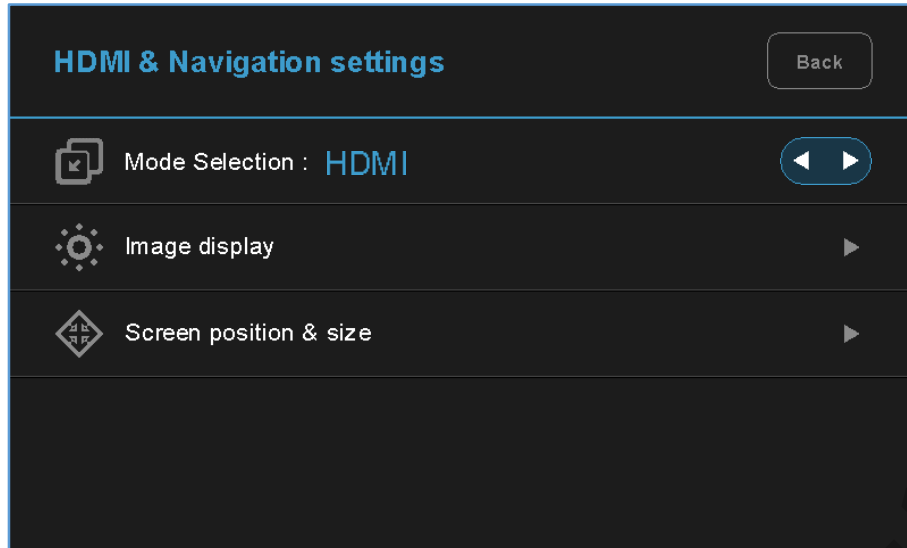| No.6	No.7	No.8	No.9	No.10	Car Models
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	Corvette Stingray <MY-LINK> Chevrolet Suburban <MY-LINK> 2016~ Chevrolet Silverado <MY-LINK> 2016~ GMC Canyon <MY-LINK> 2016~ GMC Yukon <MY-LINK>
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	Chevrolet Impala <MY-LINK>
OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	ON(▼)	2016 Chevrolet Impala <MY-LINK>
OFF(▲)	OFF(▲)	ON(▼)	ON(▼)	ON(▼)	2017 Chevrolet Impala <MY-LINK>
OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	OFF(▲)	2018~ Equinox <8inch MY-LINK> 2016~ Malibu <8inch MY-LINK> 2016~ Camaro <8inch MY-LINK> 2016~ Volt <8inch MY-LINK>
OFF(▲)	OFF(▲)	ON(▼)	OFF(▲)	OFF(▲)	2017~ Chevrolet Silverado <MY-LINK>

Settings

| Button	Function	Operation
Touch the oem screen	Enter into the setting menu	Touch the oem screen 5 seconds long.
Touch Screen (OEM Monitor)	All functions of setting menu of IW03GF is controlled by a touch screen of the OEM monitor.	

1. Enter into the setting menu.

\<Press the 'OPTION' button 5 seconds long.\>

- HDMI & Navigation settings

- Rear view camera settings

- AV-input settings

- System settings

- System information

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Settings

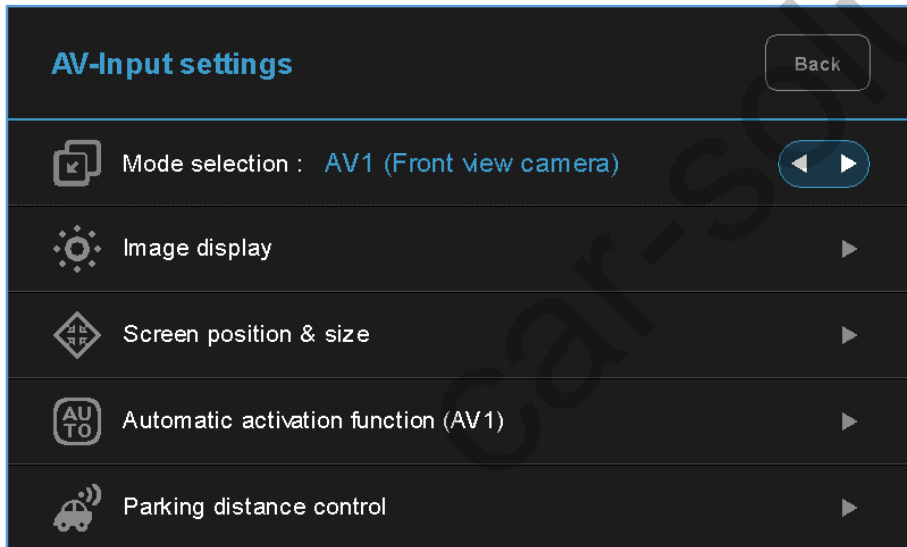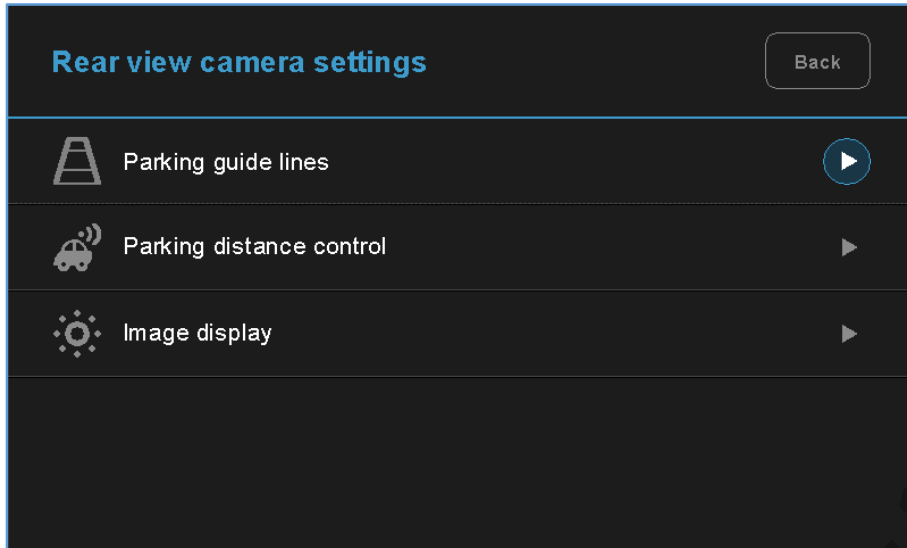| HDMI & Navigation settings	Back
⧉ Mode Selection : HDMI	◀ ▶
☀ Image display	▶
✛ Screen position & size	▶

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.

HDMI & Navigation settings	Back
⧉ Mode Selection : NAVI	◀ ▶
☀ Image display	▶
✛ Screen position & size	▶
⧉ Navigation model selection	▶
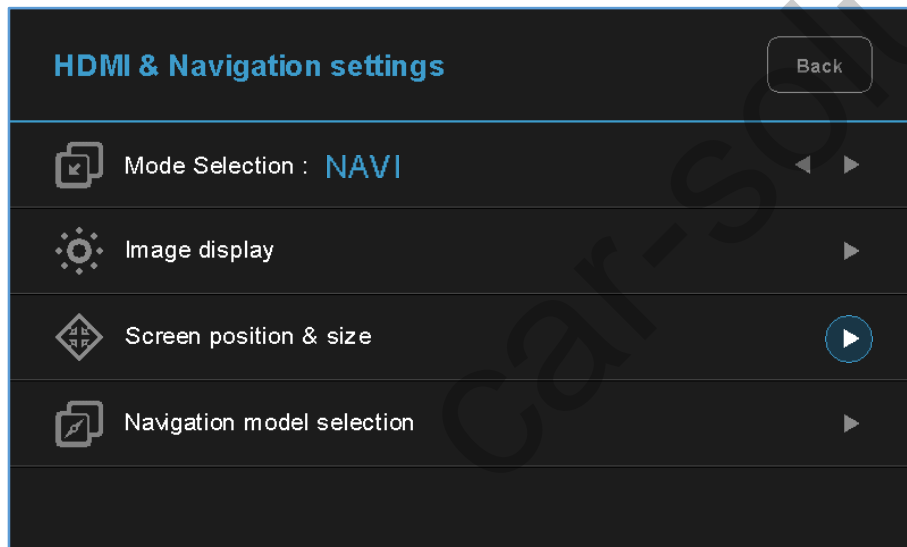
3. NAVI mode settings

- 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 Resolution selection
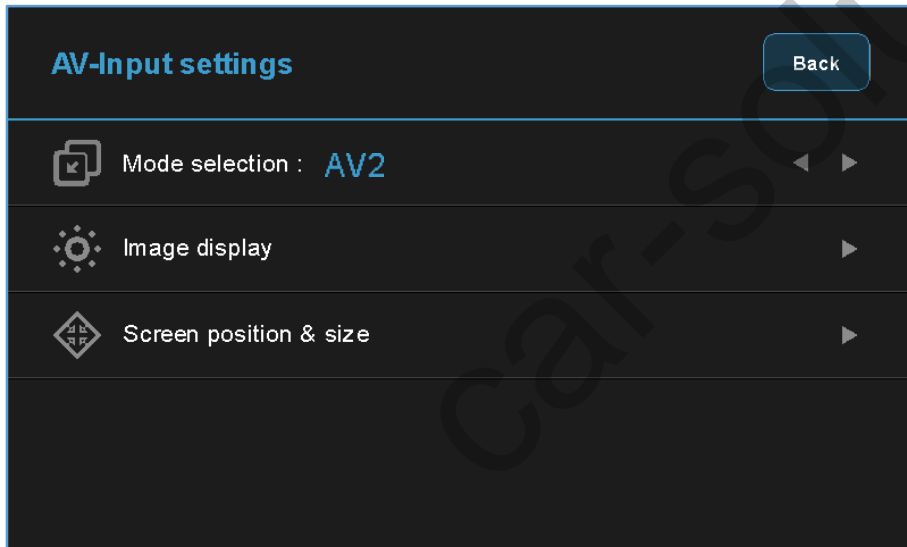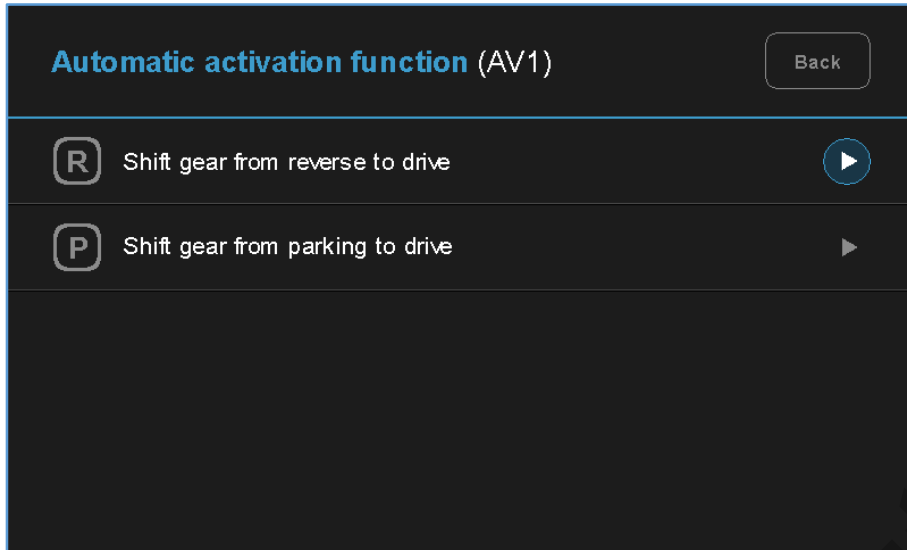
  = Entry Disabled / Not applicable.

Settings

Rear view camera settings [Back]

△ Parking guide lines ▶

🚗 Parking distance control ▶

☀ Image display ▶

AV-Input settings [Back]

⬚ Mode selection : AV1 (Front view camera) ◀ ▶

☀ Image display ▶

✥ Screen position & size ▶

AUTO Automatic activation function (AV1) ▶

🚗 Parking distance control ▶

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 the position of parking distance control sensors
    to 'LEFT or RIGHT' and select the PDC '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 the position of parking distance control sensors
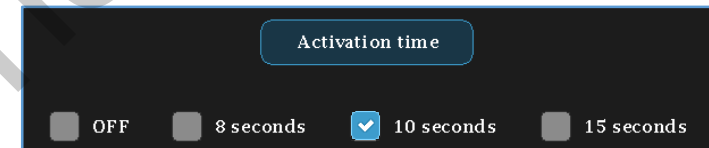   to 'LEFT or RIGHT' and select the PDC 'ON or OFF'.

Settings

Automatic activation function (AV1)   [Back]

| R | Shift gear from reverse to drive | ▶ |
| P | Shift gear from parking to drive | ▶ |

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.

Activation time

☐ OFF   ☐ 8 seconds   ☑ 10 seconds   ☐ 15 seconds

AV-Input settings   [Back]

⊡	Mode selection : AV2	◄ ▶
⊙	Image display	▶
✛	Screen position & size	▶

7. AV2 settings

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

- Image display
  = Adjust the values of brightness and contrast Red-Green-Blue colors of AV2 display.

- Screen position & size
  = Entry Disabled / Not applicable.

Settings

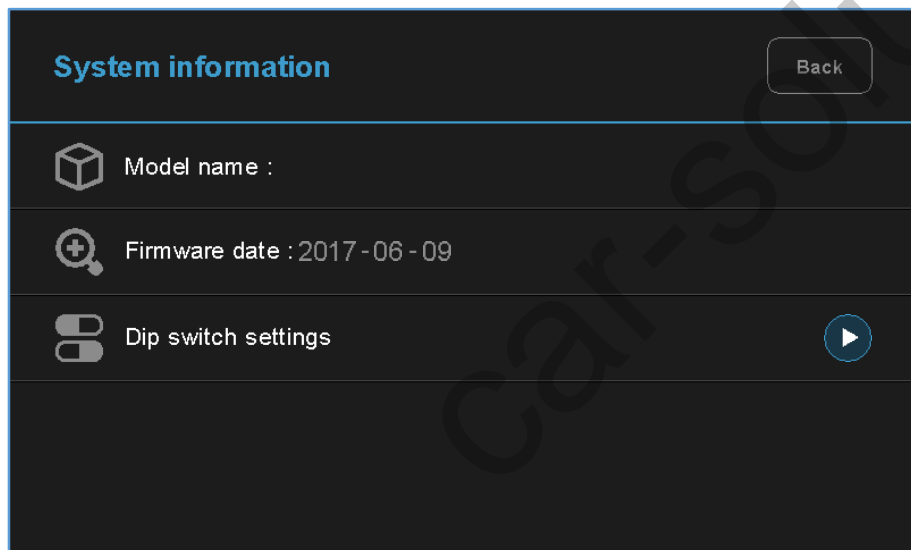| System settings	Back
🔒 Safe mode : **ON**	◀ ▶
↻ Factory default	▶
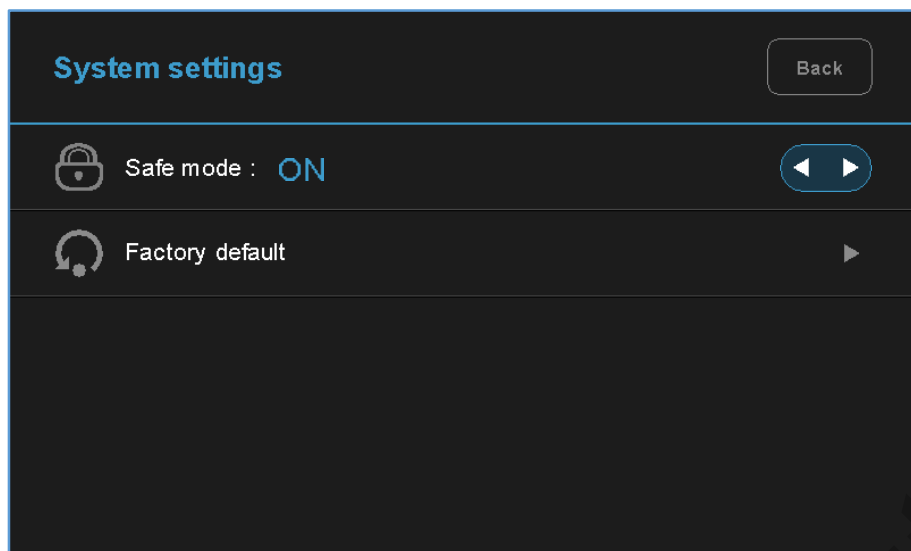
8. System settings

- 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.

System information	Back
📦 Model name :	
🔍 Firmware date : 2017 - 06 - 09	
Dip switch settings	▶

9. System information

- Mode name :

- Firmware date : 2017 – 06 – 09 (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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Settings

System information - Dip switch settings

Back

No.		ON/OFF
No. 1	HDMI	ON
No. 2	Navigation	ON
No. 3	External rear view camera	ON
No. 4	AV1	ON
No. 5	AV2	OFF
No. 6		ON
No. 7		OFF
No. 8	Selection of car model	OFF
No. 9		OFF
No. 10		ON

10. Information of Dip switch settings

* You can check the current positions of dip switch settings.

ex 1)
Actual DIP switch values. (→)

Appears on the setting menu. (↓)

No.		ON/OFF
No. 1	HDMI	ON
No. 2	Navigation	OFF
No. 3	External rear view camera	ON
No. 4	AV1	ON
No. 5	AV2	OFF
No. 6		OFF
No. 7		ON
No. 8	Selection of car model	OFF
No. 9		ON
No. 10		OFF

ex 2)
Actual DIP switch values. (→)

Appears on the setting menu. (↓)

No.		ON/OFF
No. 1	HDMI	ON
No. 2	Navigation	ON
No. 3	External rear view camera	OFF
No. 4	AV1	ON
No. 5	AV2	OFF
No. 6		ON
No. 7		OFF
No. 8	Selection of car model	OFF
No. 9		OFF
No. 10		OFF

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