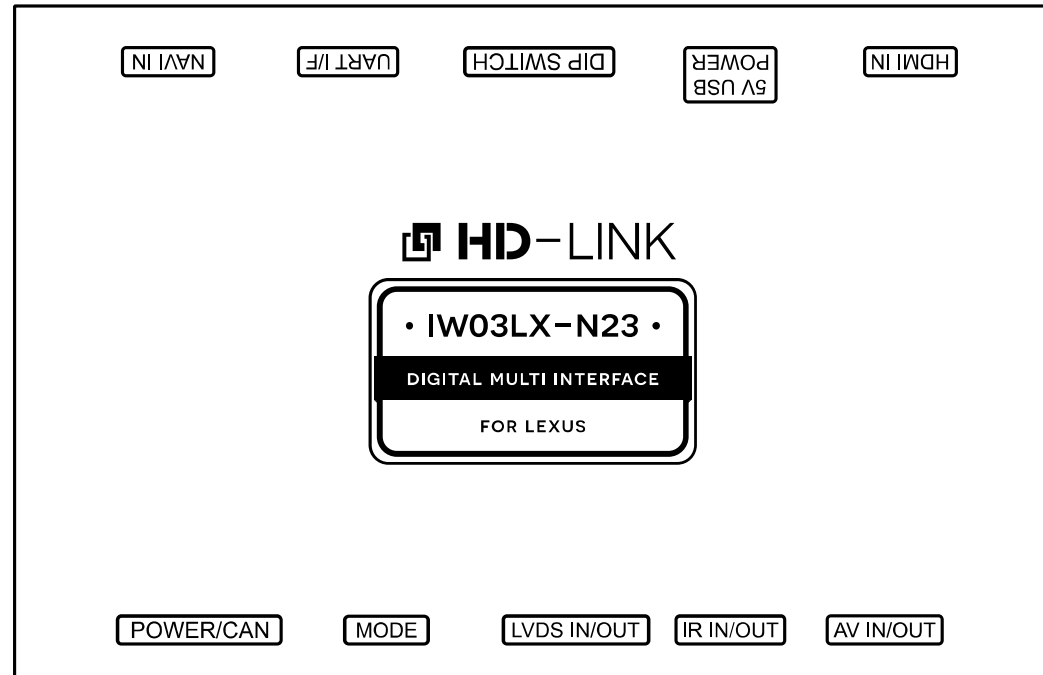


Instruction Manual

High-Definition Link for Lexus IW03LX-N23



Model Name	IW03LX-N23
Latest Firmware Date	2018 - 02 – 08
Manual Version	Rev. 1.4
Language	English

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Cautions

▪ IW03LX-N23-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.
- 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.

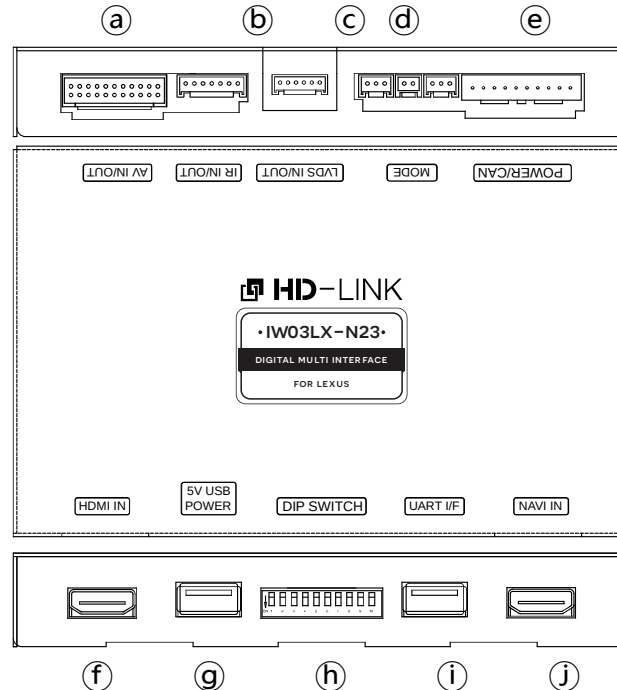
▪ Navigation(GPS) box-related

- When you connect the power wires(B+, ACC) to the navigation(GPS) box,
the 'NAVI (12V) OUT' wire supported by IW03LX-N23 should be spliced with an ACC wire of navigation box.

Dimension



Exterior



- (a) AV IN / OUT
- (b) IR IN / OUT (Not Used)
- (c) LVDS IN / OUT
- (d) MODE
- (e) POWER / CAN
- (f) HDMI IN
- (g) 5V USB POWER
- (h) DIP SWITCH
- (i) UART I/F
- (j) NAVI IN

Components



POWER / CAN Cable



GVIF-IN / OUT Cable



AV IN / OUT Cable



5-Pin Micro USB Cable



Mode Switch

Optional Parts (sold separately at the indiwork)



HDMI Cable
(Male to Male)



HDMI Extender
(For stick type HDMI device)

Full Installation Diagram

※ Optional External Devices



External Rear View Camera



Audio(AUX) Output of Navigation Box



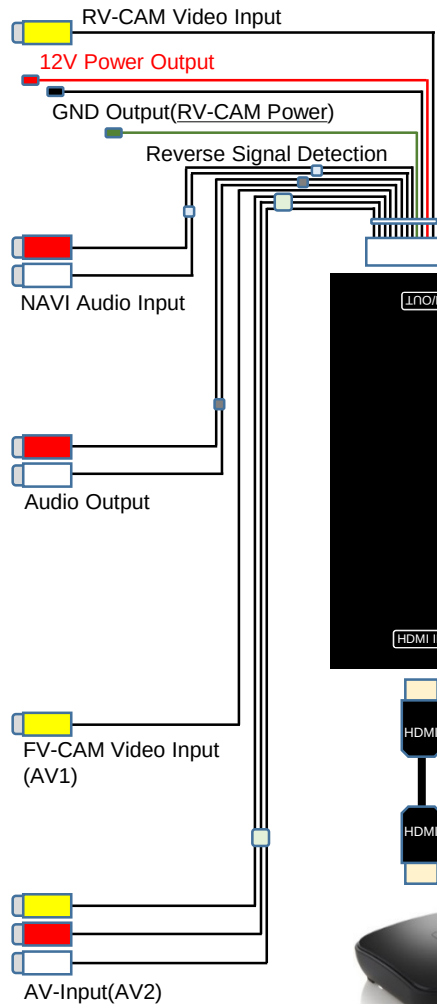
Auxiliary(AUX) Input of the car



External Front View Camera



AV device
(ex: DTV Box, Divx)



Not Used

The cable might be able to different color

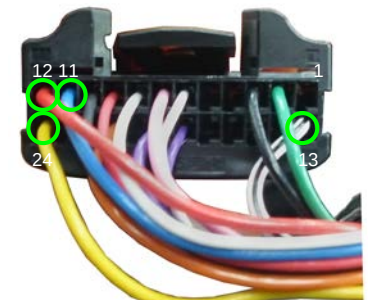
※ Cut the genuine No.11 wire(Blue)!

*24-Pin Connector
Pin # 11 = Blue Wire

NAVI 12V Power Output(NAVI 12V OUT)

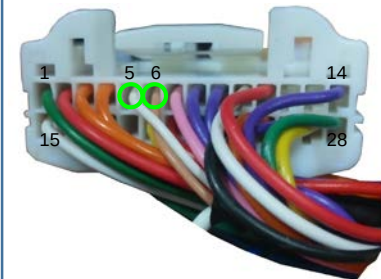
Battery Power Input(BAT +)

Ground Input(GROUND)



*OEM Monitor – 24-Pin Connector

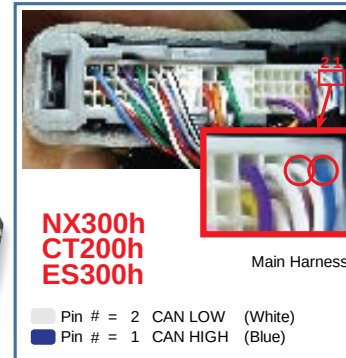
- Pin # 11 = 'Blue' Wire *Cut!!
- Pin # 12 = Battery Power(B+ / Red)
- Pin # 24 = ACC Power(Yellow)
- Pin # 13 = Ground(GND / White/Black)



*Head Unit(OEM) – 24-Pin Connector

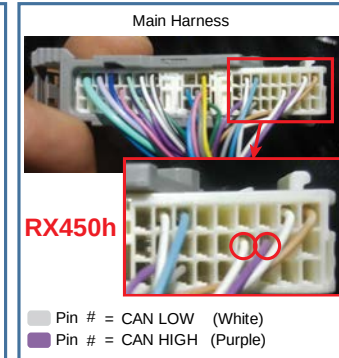
- Pin # 5 = CAN LOW (White)
- Pin # 6 = CAN HIGH (Light Brown)

※ The cable might be able to different color



NX300h
CT200h
ES300h

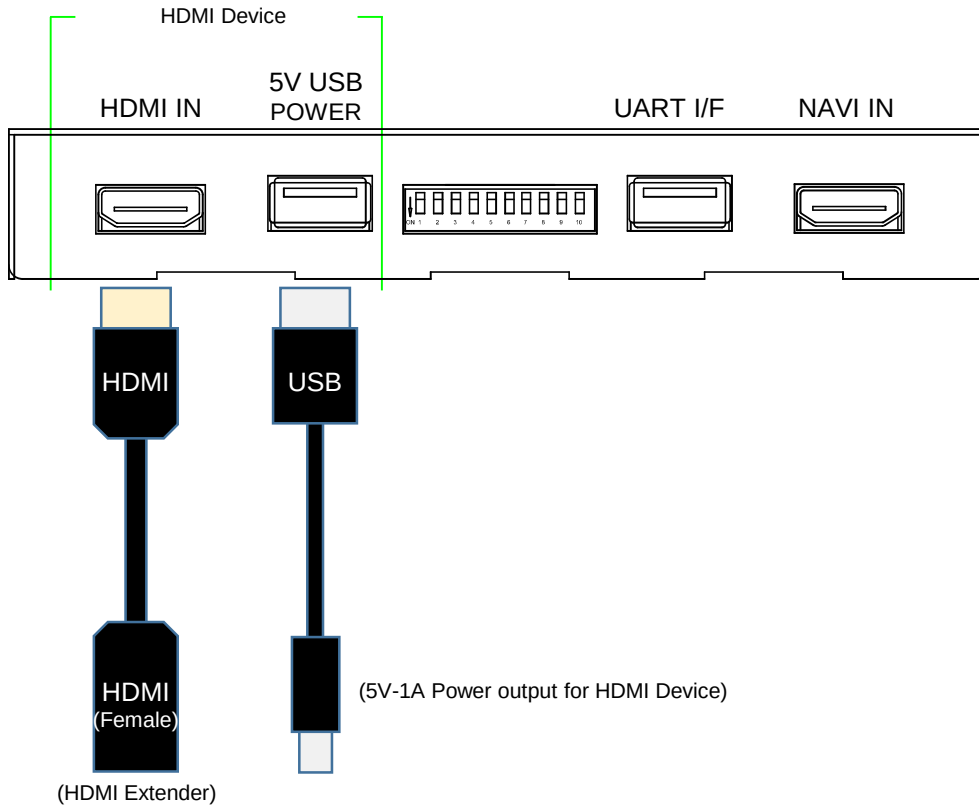
- Pin # = 2 CAN LOW (White)
- Pin # = 1 CAN HIGH (Blue)



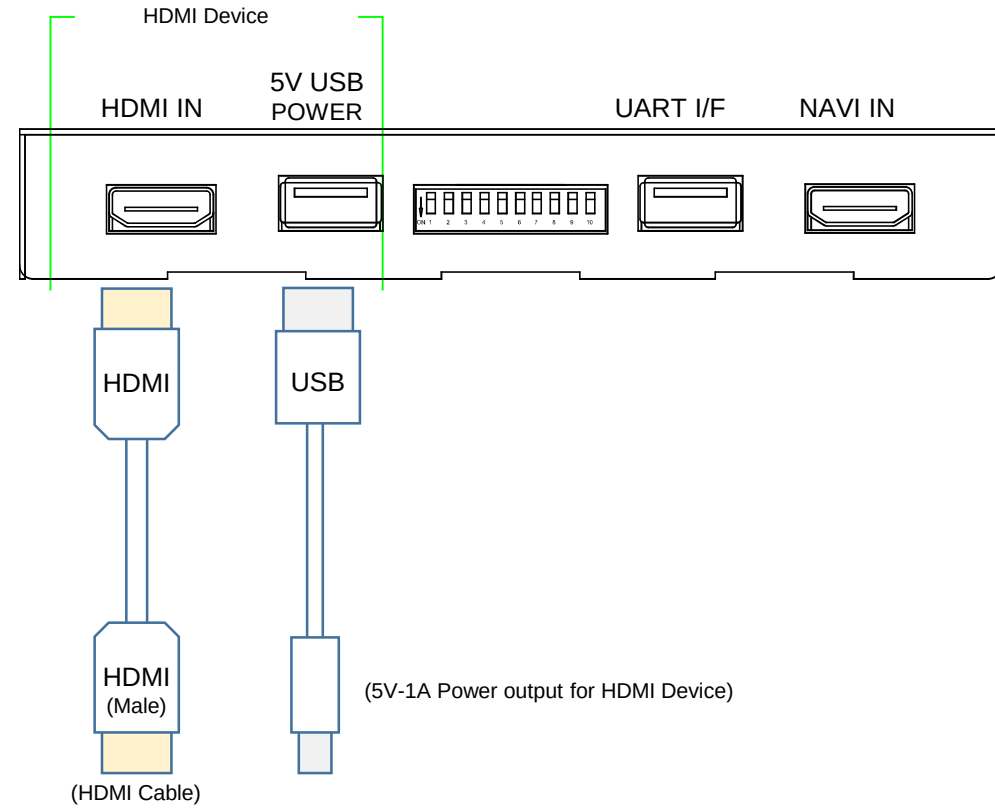
RX450h

- Pin # = CAN LOW (White)
- Pin # = CAN HIGH (Purple)

HDMI Connection Diagram



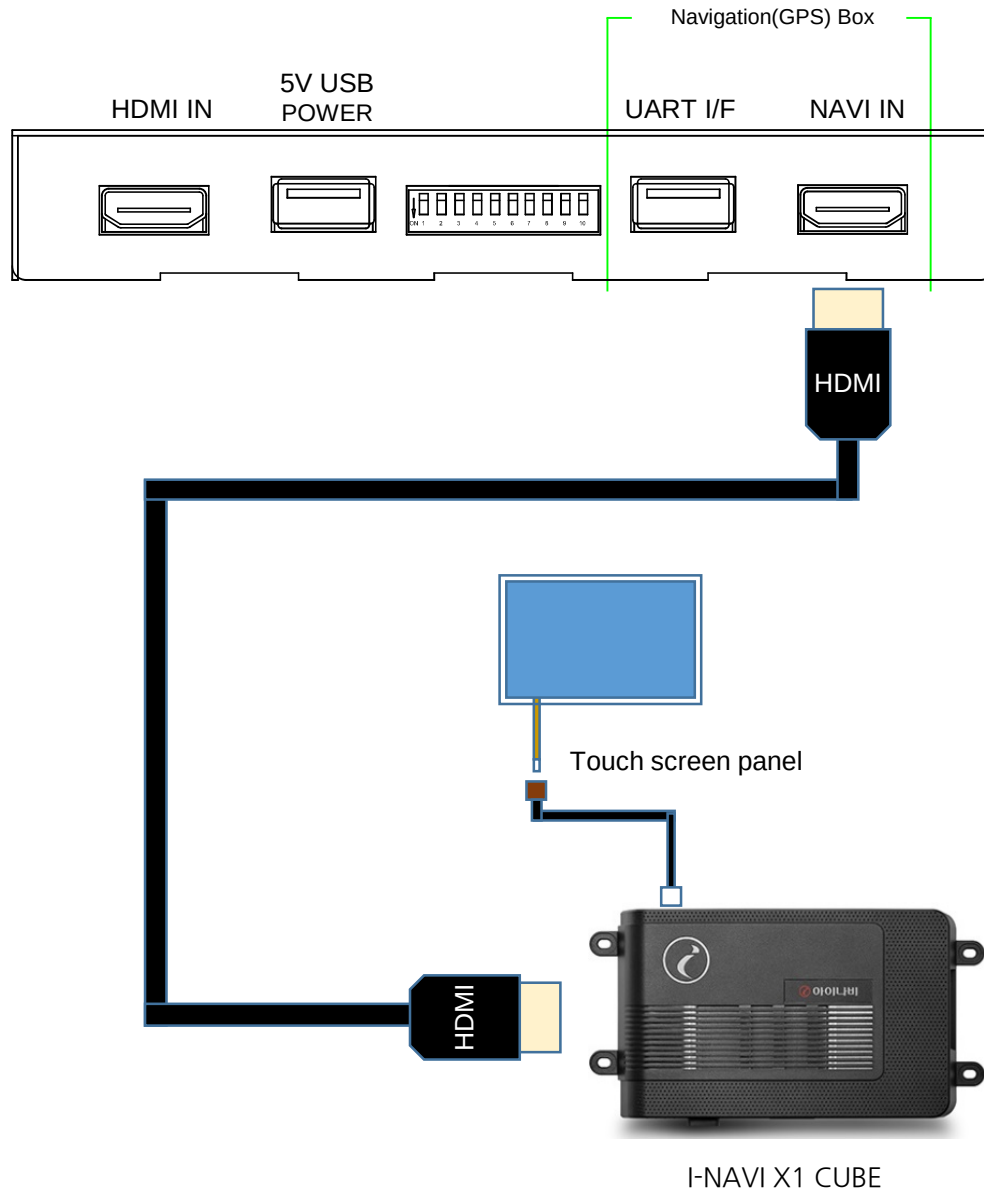
'Stick Type' HDMI Devices



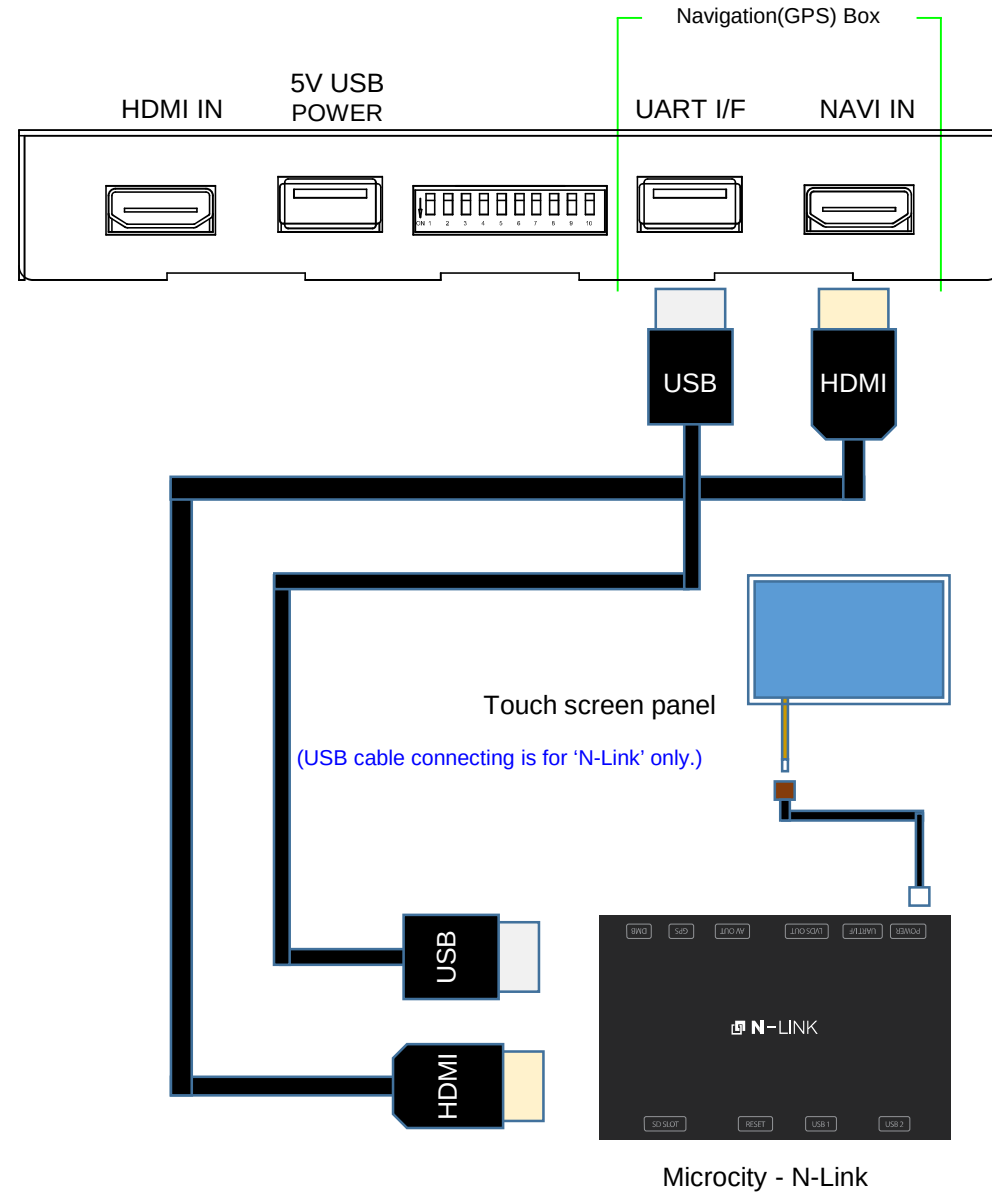
'Dongle & Adapter' Type HDMI Devices



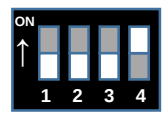
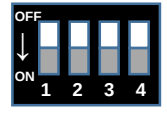
Navigation Connection Diagram



Navigation Connection Diagram



Compatibility Chart for Navigation(GPS) box models

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

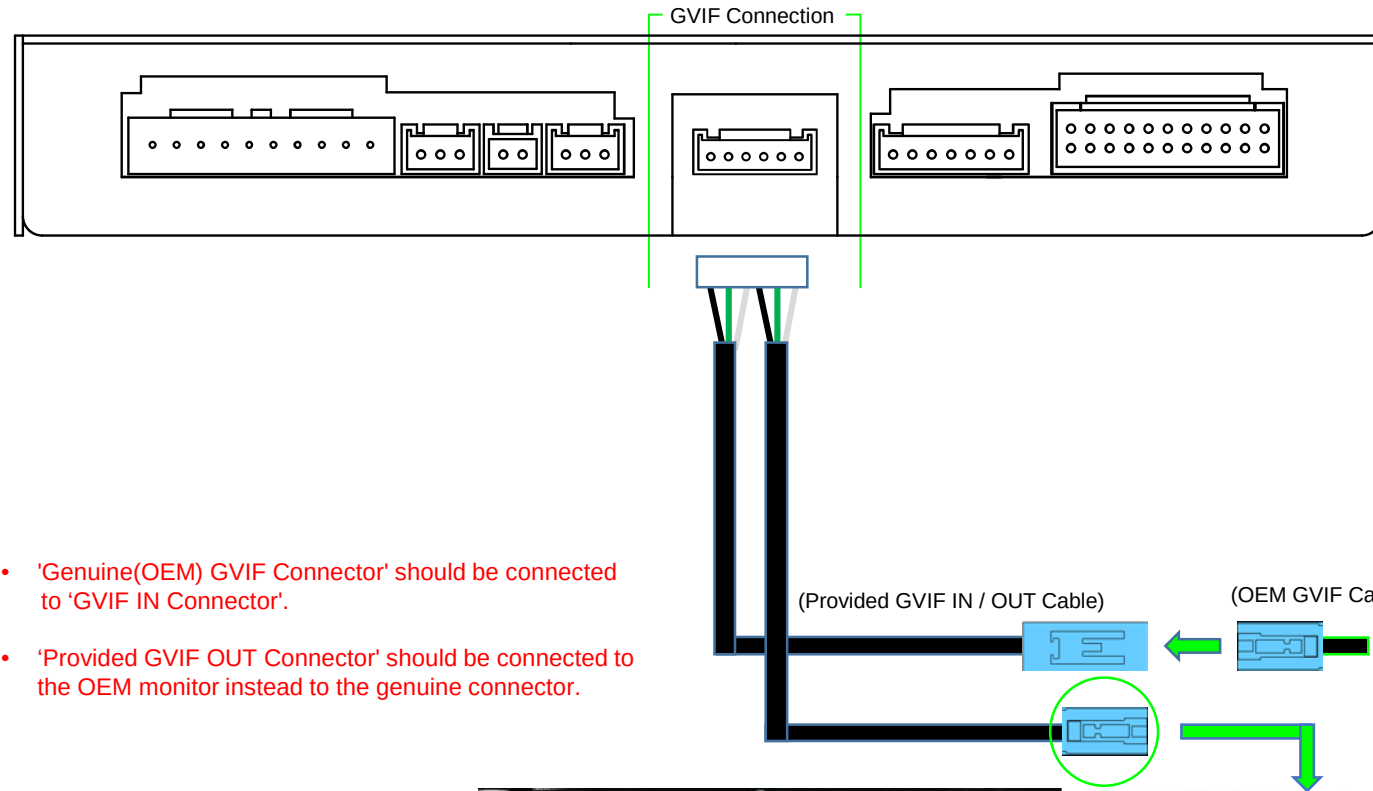
- The 'IW03LX-N23 (HD-Link)' supports navigation(GPS) box models equipped with 'Digital video output'.
- It does not support the 'RGB video signals'.

Compatibility Chart for Android box models

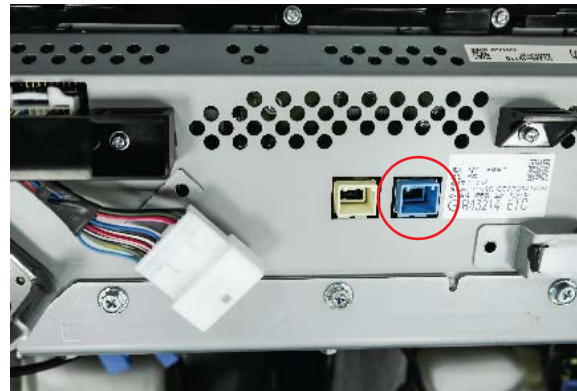
Model		Country	Dip S/W (Navigation)	Required Parts		
	MICROCITY Android	-	-	 HDMI Cable (HDMI to HDMI)	 USB A-A Cable (USB to USB)	

- The 'IW03LX-N23 (HD-Link)' supports navigation(GPS) box models equipped with 'Digital video output'.
- It does not support the 'RGB video signals'.

GVIF Connection Diagram

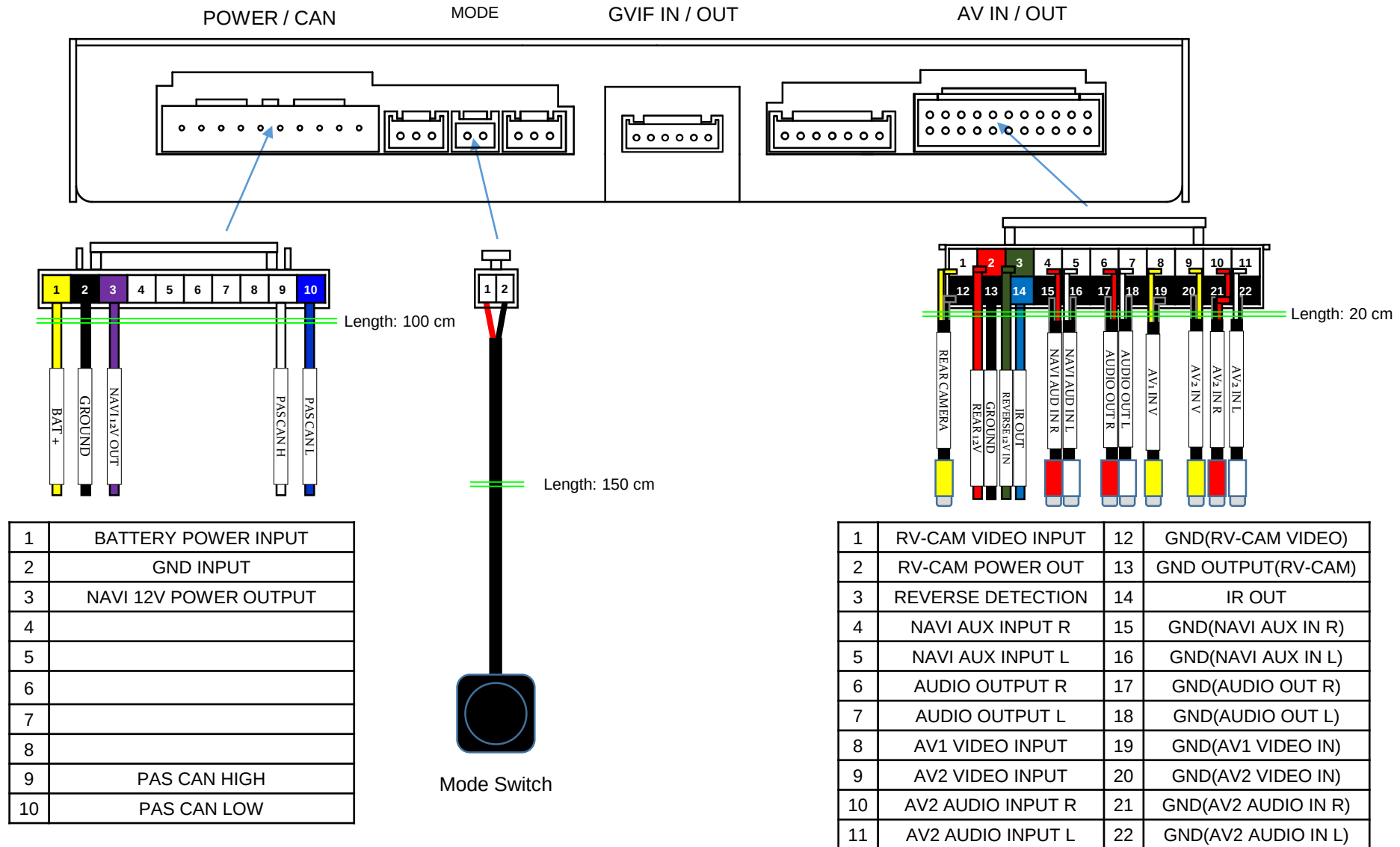


- 'Genuine(OEM) GVIF Connector' should be connected to 'GVIF IN Connector'.
- 'Provided GVIF OUT Connector' should be connected to the OEM monitor instead to the genuine connector.



Monitor(OEM)

Body Connector specifications



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

Car Compatibility Chart

Car Models	Production Year	Specific Models
ES 300h	2014 -	XV60
ES 350	2014 -	XV60
CT 200h	2011 -	A10
IS 250	2014 -	XE30
NX300h	2014 -	AZ10
RX450h	2015 -	AZ20



The IW03LX-N23 is used in combination with Lexus DISPLAY AUDIO SYSTEM.

- ES 300h PREMIUM (8-inch)
- ES 350 PREMIUM (8-inch)
- CT 200h SUPREME (7-inch)
- IS 250 PREMIUM (7-inch)



The IW03LX-N23 supports the Lexus original screen & Head unit equipped with 'GVIF connector' only. Please check the specification of original GVIF connector on the sidelines of a production year.

Activation by original buttons

※ RX450h Only



RX450h OEM Buttons

Button	Function	Operation	Remarks
 MAP	Changing Modes	Press the button 2 seconds long.	Order: OEM → HDMI → NAVI → AV1 → AV2
 MAP	Changing Modes	Press the button 2 times quickly	OEM → AV1 (Front View)
	Changing Modes	Press the button short.	Return to the OEM mode in any modes..

DIP Switch Settings



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	Disabled PGS LINE	USE PGS LINE
7	Selection of car model	
8		
9		
10		

No.7	No.8	No.9	No.10	Car Models
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	ES 300h, CT200h, NX300h
OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	IS 200T
OFF(▲)	OFF(▲)	ON(▼)	ON(▼)	RX450h

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MICROCITY

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