Manual Date : 2016.09.28

Installation Manual

HDMI Interface for New Land rover
Model : QHI-LVTX-LR-XE

•Specification

Car Compatibility : Discovery Sports, Jaguar XE, XF, F-Pace (8'')

Components : Interface* 1ea, Sub-board*1ea

Multimedia interface Input/output spec
   Input : HDMI*2, Analog RGB*1, A/V*1,
            CVBS(Rear view Camera)*1, CVBS(Front camera)*1
   Output : To LCD*1

Power spec
   Input power : 8VDC ~ 18VDC
   Consumption : 5WATT

Switch input mode
- External video sources skip function : able to control input videos on and off via DIP switches.
- Able to switch videos via the remote, button switch, and original buttons.
- Able to detect the rear view camera (back up camera) via Lamp or CAN.

•Features
- Able to output high resolution video via HDMI input
- Control external videos sources (DVD, DTV) via Multi Media Touch
- Adjust external videos screen position
- Check the improved Screen Display (User Friendly Interface)
- Switch modes via original OEM button
- Supply power to connect rear view camera (Back up camera)
- Assist your parking via Dynamic PAS(Parking Assistance System), PDC(Parking Distance Control), moving parking line according movement of steering wheel

•Product exterior
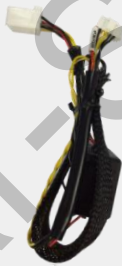

Length-90mm

Height-18mm

Width-140mm

5V-OUT(Power supply for Mirroring device) | HDMI-1 | HDMI-2 | MULTI | RGB-IN(RGB Navigation input) | LVDS-OUT(Connection to Sub-board) | CAP T/S INPUT(Original touch cable connection) | RES T/S OUT(NOT FOR USE) | CAP T/S OUT(TOUCH CABLE CONNECTION-ONLY ITS PRODUCT) | TEST(NOT FOR USE) | LED | POWER/CAN(Power / CAN connection) | DIP S/W(DIP switch setting)

•Components

Sub-board * 1ea (PCBMAI0648)	POWER * 1ea (HPOWER0088)	Jack by jack cable * 1ea (HARETC0200)	MULTI * 1ea (HAVCAB0038)	RGB * 1ea (HRGBCA0018)

LVDS * 1ea (HLVDSC0028)	LVDS * 1ea (HLVDSC0035)	BUTTON * 1ea (HARETC0001)	IR * 1ea (HIRCAB0002)	TOUCH OUT * 1ea (HTOUCH0031)	RC * 1ea (REMOTE0001)

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• DIP SWITCH

※ ON : DOWN / OFF : UP

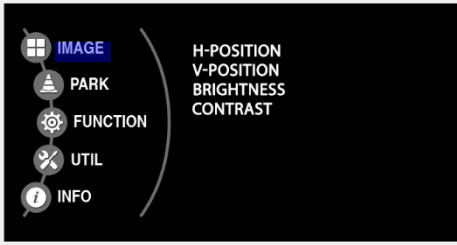| PIN	FUNCTION	Dip S/W SETTING
1	RGB INPUT MUTE	OFF : RGB DISPLAY ON : Skipping RGB Mode
2	HDMI1 MODE MUTE	OFF : HDMI1 DISPLAY ON : Skipping HDM1 Mode
3	AV MODE MUTE	OFF : AV DISPLAY ON : Skipping AV Mode
4	FRONT CAM MUTE	OFF : Front camera function on ON : Front camera function off
5	NO USE (OFF)	
6	MONITOR SETTING	OFF : Default
7	REAR MODE	OFF : OEM Rear Camera ON : External Rear Camera
8	CAN Setting	OFF : Jaguar XE,XF,F-PACE,…(CAN 2) ON : Discovery (CAN 1)

※ Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch setting whenever changing DIP switch. Otherwise, DIP switch setting will not be applied.

• REMOTE CONTROL SETTING

KEY	FUNCTION
POWER & PIP	NO USE
MENU	Activating FACTORY MENU
OK	Making a selection, changing image display
▲	Moving upward
▼	Moving downward
◄	Moving leftward (If you press this button 2 seconds long, you can access the factory mode.)
►	Moving rightward (If you press this button 2 seconds long, you can reset all the data about user environment.)

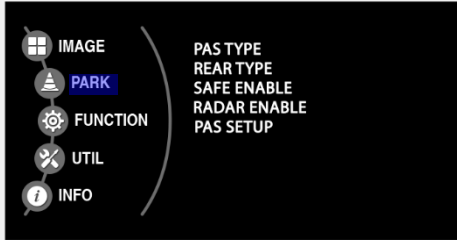support@car-solutions.com   www.car-solutions.com   4

•Factory setting

Adjust a current screen position and size.

H-POSITION : Move display horizontally
V-POSITION : Move display vertically
BRIGHTNESS : Adjust brightness of screen
CONTRAST : Adjust contrast of screen

Adjust rear view camera setting.

PAS TYPE : Select type of parking guide line
- NOT USED : No use parking guide line
- PAS ON : Selecting Dynamic parking guide line
- PAS OFF : Selecting fixed parking guide line

PAS SETUP : Adjusting the position of the parking guide line
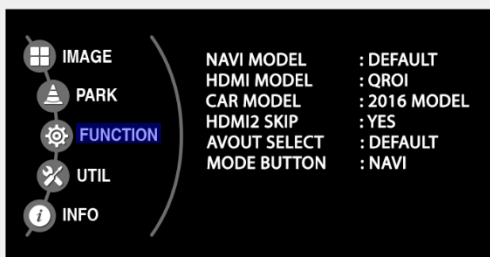
<H-POSITION>   <V-POSITION>

REAR TYPE : Choose rear camera recognition.
- CAN : By connecting to "CAN" cable of the car gear, changing to rear camera mode when shifting into reverse. (Connect "CAN" cable of the power cable to the "CAN" cable of the car gear.)
- LAMP : By connecting to the rear lamp of the car, switch to rear camera mode when shifting into rear. (Connect "Rear-C" cable of the power cable to the rear lamp of the car.)

SAFE ENABLE : If it is enable, HDMI, RGB, and A/V mode doesn't show up while driving. (Default : OFF)
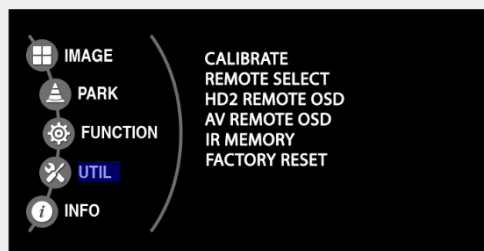
RADAR ENABLE : Setting up parking distance alarm sensor. (ON/OFF)

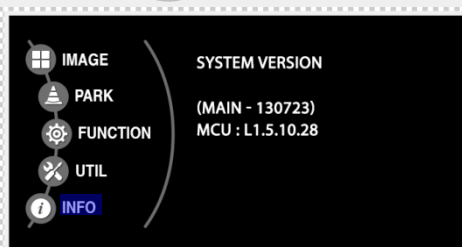# •Factory setting

Navigation & Car model setting up

NAVI MODEL : Setting up RGB Navigation. (Default, Q-roi RGB, WP9230, HDMI(WVGA))

HDMI MODEL : Setting up HDMI1 Navigation. (Q-roi RGB, WP9320)

CAR MODEL : Selecting the model of car. (2016 MODEL)

HDMI2 SKIP : Skipping HDMI mode when switching modes.

AVOUT SELECT : Selecting background sound through car AUX. HDMI1, HDMI2, AV)

MODE BUTTON : Selecting mode button. (NAVI, HOME)

Other options setting up

•**CALIBRATE** : Able to calibrate touch screen

•**REMOTE SELECT** : Able to use remote control on DVD, DTV by selecting "User" after IR memory registered. (Default, User)

•**HD2 REMOTE OSD** : HDMI2 OSD on or off

•**AV REMOTE OSD** : AV OSD on or off

•**IR MEMORY** : Registering IR memory (Remote control values) of DTV, DVD.

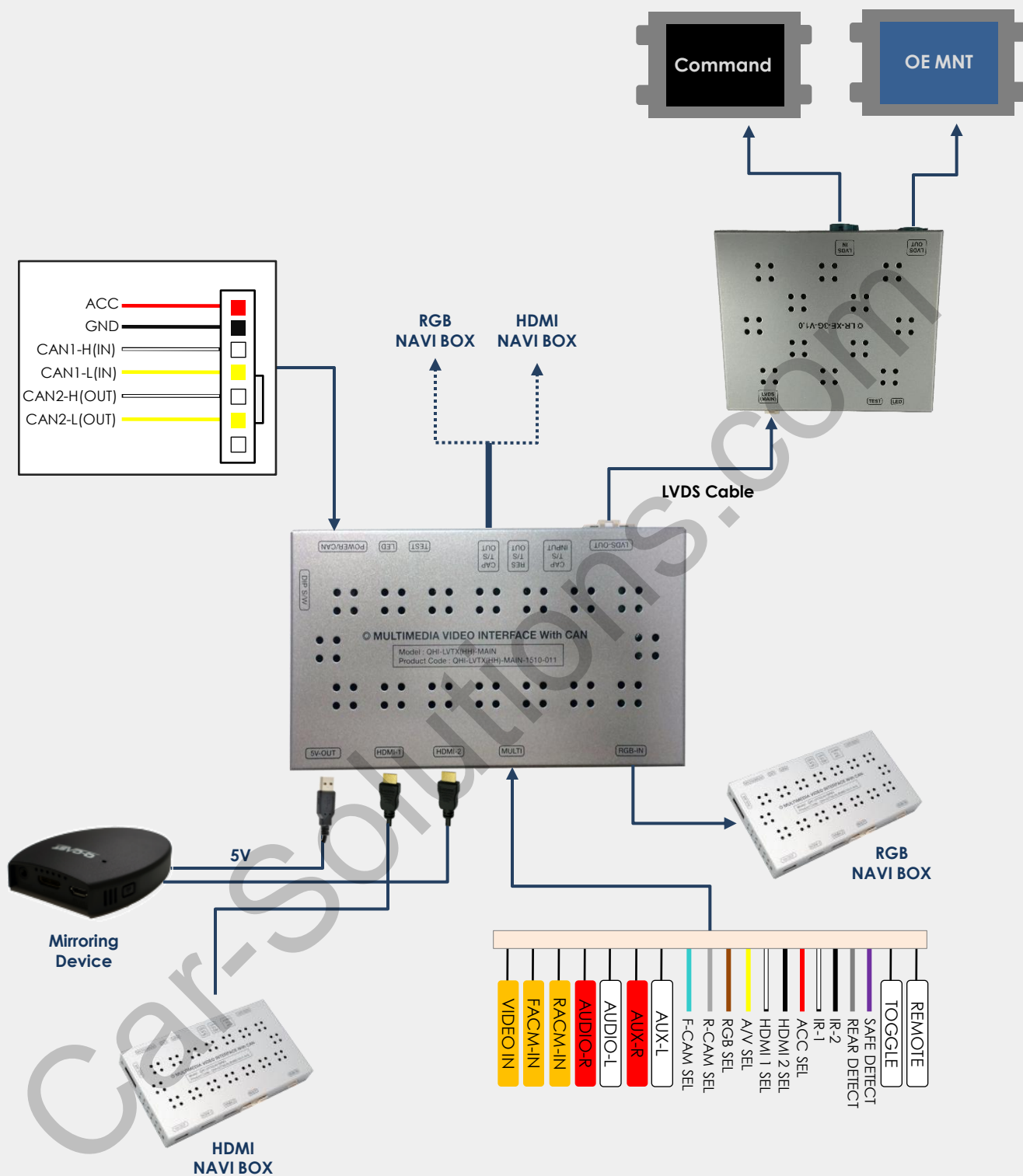•**FACTORY RESET** : Factory mode reset.

System version information

•How to use OEM buttons

※ Able to switch modes via HOME or NAV button of car monitor.

※ Set up a button to switch on Factory Menu.

•Installation Diagram
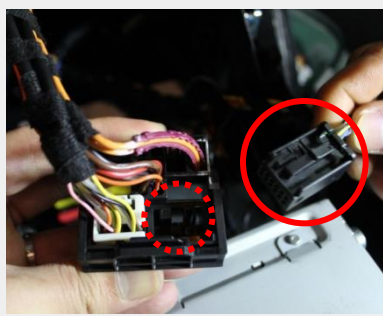
Command

OE MNT

ACC
GND
CAN1-H(IN)
CAN1-L(IN)
CAN2-H(OUT)
CAN2-L(OUT)

RGB
NAVI BOX

HDMI
NAVI BOX

OLR-XE-3G-V1.0

LVDS Cable

MULTIMEDIA VIDEO INTERFACE With CAN
Model : QHI-LVTX(HH)-MAIN
Product Code : QHI-LVTX(HH)-MAIN-1510-011

5V-OUT   HDMI-1   HDMI-2   MULTI   RGB-IN

5V

RGB
NAVI BOX

Mirroring
Device

VIDEO IN
FACM-IN
RACM-IN
AUDIO-R
AUDIO-L
AUX-R
AUX-L
F-CAM SEL
R-CAM SEL
RGB SEL
A/V SEL
HDMI 1 SEL
HDMI 2 SEL
ACC SEL
IR-1
IR-2
REAR DETECT
SAFE DETECT
TOGGLE
REMOTE

HDMI
NAVI BOX

※ HDMI NAVI must be connected to HDMI-1.

•CAN cable connection

※ **You may find cables as below behind of car command.**

Find a bunch of cables like above.
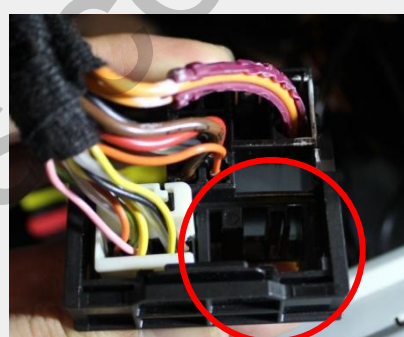
Disconnect the red marked cable.

Take out the black cover from the connector.

Connect the provided CAN IN/OUR cable to the cable.

Assemble the black cover to the provided CAN IN/OUT cable's connector.
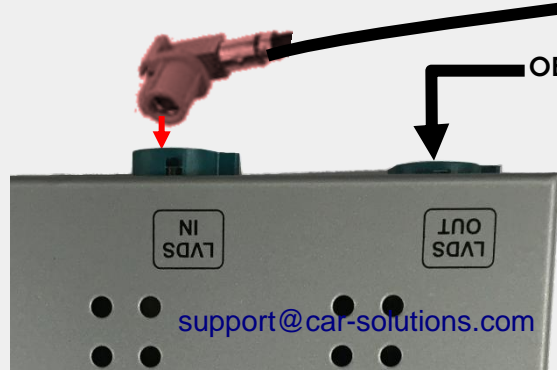
Plug in the provided cable to the red marked spot.

•LCD cable connection

Disconnect the OE LCD cable from the backside of command and connect it to "LVDS IN" on sub-board. Connect the provided LCD cable to "LVDS OUT" on sub-board and then connect the other side to where you disconnect the OE LCD cable from the command box.

Provided LCD cable

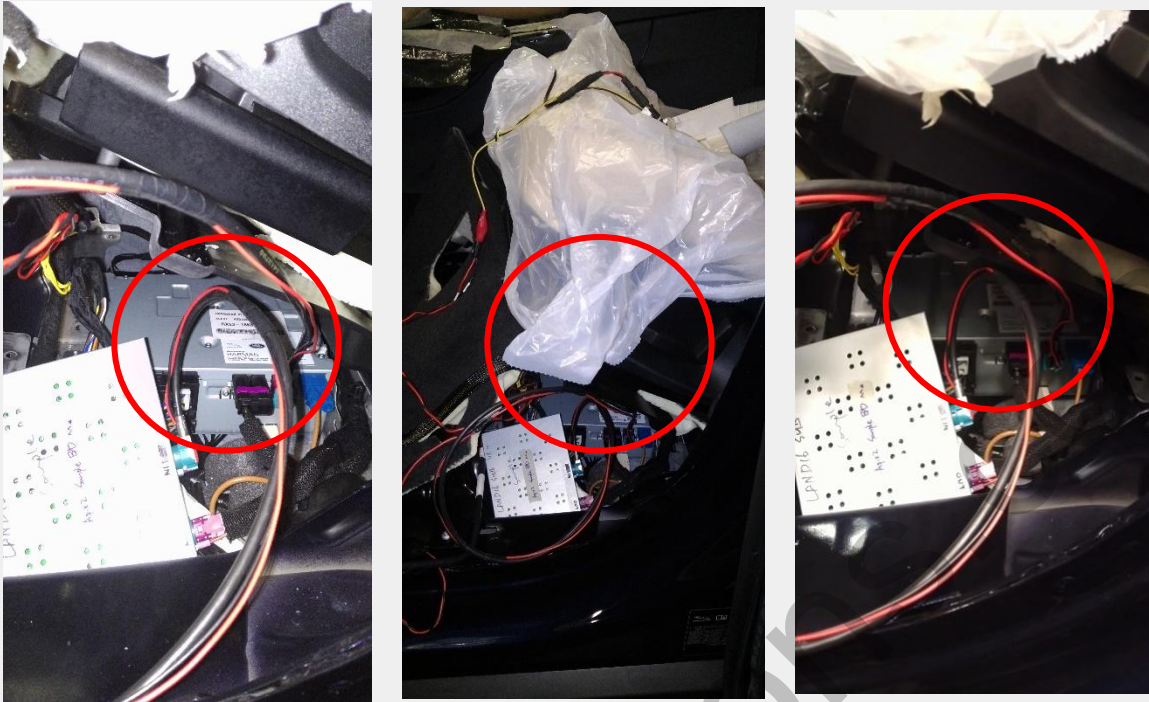**OE LCD cable**

LVDS IN

LVDS OUT

※**When provided LCD cable blocks the other ports of command**

Disconnect OE LCD cable from the monitor and connect it to LVDS In on subboard
The provided LCD cable shall be connected from Monitor to LVDS out on subboard

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•CAN wire connection (F-Pace)

※ You can find the head unit under the driver seat.

Find the head unit under the driver seat as above.

[3G] JAGUAR F-PACE 8"
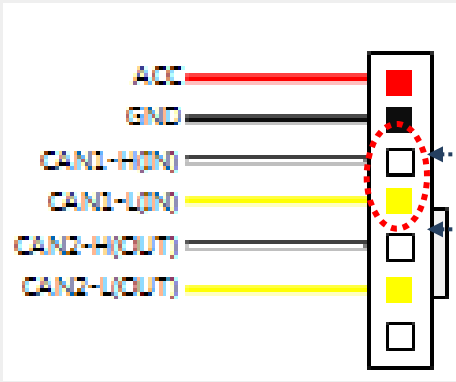8(H), 9(L)PIN GEAR DATA
11(H), 12(L)PIN BUTTON DATA

Find the CAN cable as above behind the
air conditioner unit and wire CAN cables.

• LCD cable connection for Evoque

※ Purchase LCD cable(HLCDCA0019) separately,

and connect the LCD cable to command under the seat

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• CAN wires setting(in case of CAN failure)

ACC
GND
CAN1-H(IN)
CAN1-L(IN)
CAN2-H(OUT)
CAN2-L(OUT)

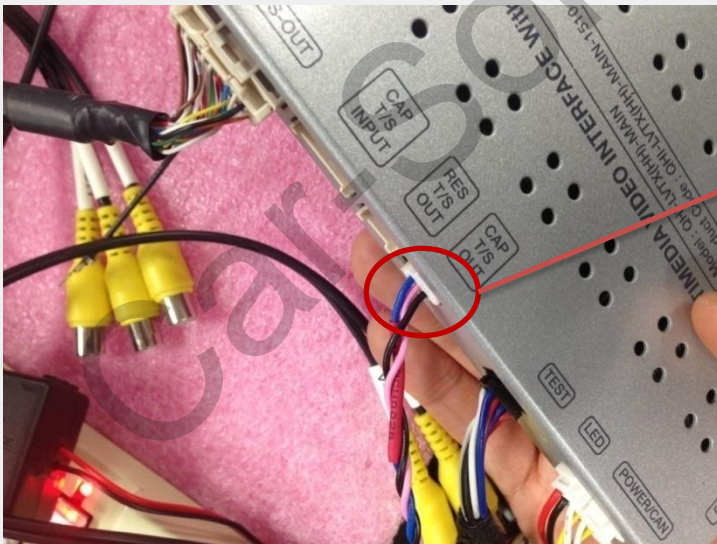※ **Swap 3rd and 4th wires of provided power cable.**

※ Car model for Switching CAN wires

Discovery Sports equipped with 1 CAN connection

•Connect to Q-ROI RGB

Connect one wire into the most right pin hole of RGB Out cable.
It's Q-ROI RGB Uart wire.

Connect the Uart cable* to CAP T/S Out from QHI-LR15 Interface.
*The pink wire among three wires

•Trouble shooting

Q. I cannot change mode
A. Check connection of Ground cable and IR Cable. Check LED lamp is on, if not check connection of POWER cable.

Q. All I got on the screen is black.
A. Check second LED lamp of the interface is on, if not, check A/V sources connected are working well.
(Second lamp indicates AV sources connected works well.)
Check interface connection has been done well.

Q. Displayed image color is not proper (too dark or unsuitable color)
A. Press ▶ button on the remote control for 2 seconds and check how it goes, if it does not work, inform to manufacturer.

Q. I cannot watch the rear camera on the screen
A. Set the DIP switch #7 as state "ON".

Q. Set mode not appear
A. Check DIP Switch.

Q. OEM image is not displayed.
A. Check interface's LCD In/Out cable connection. If the status keeps on, inform to manufacturer.

Q. Screen only displays white color.
A. Check LCD out cable is connected well, if this status keeps, inform to manufacturer.

Q. If the original screen is shown half only after using the handle button for running the PIP function.
A. This is not because of defect but incorrect setting up. Make sure to set up the original monitor function as "split screen"

Q. If no image is shown on screen after connecting CAN wire with Park gear.
A. Go on the "FACTORY MODE", check "UTIL-Rear Select". If "LAMP", change the setting as "CAN" with the remote control. (※ when connecting Rear-C wire of LAMP power cable to Backup lights, Setting should be like this / CAN : if controlling rear camera with CAN wire)