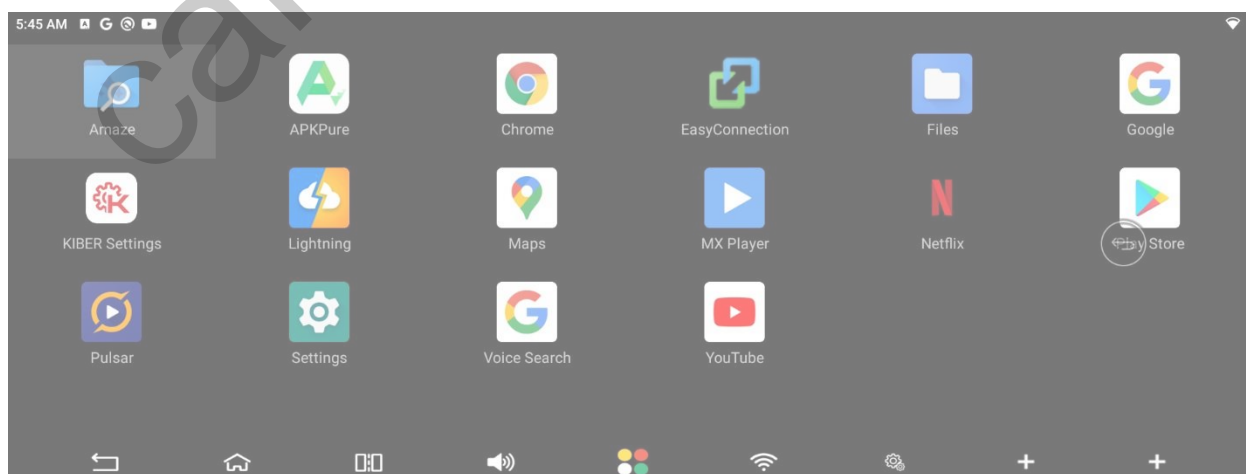
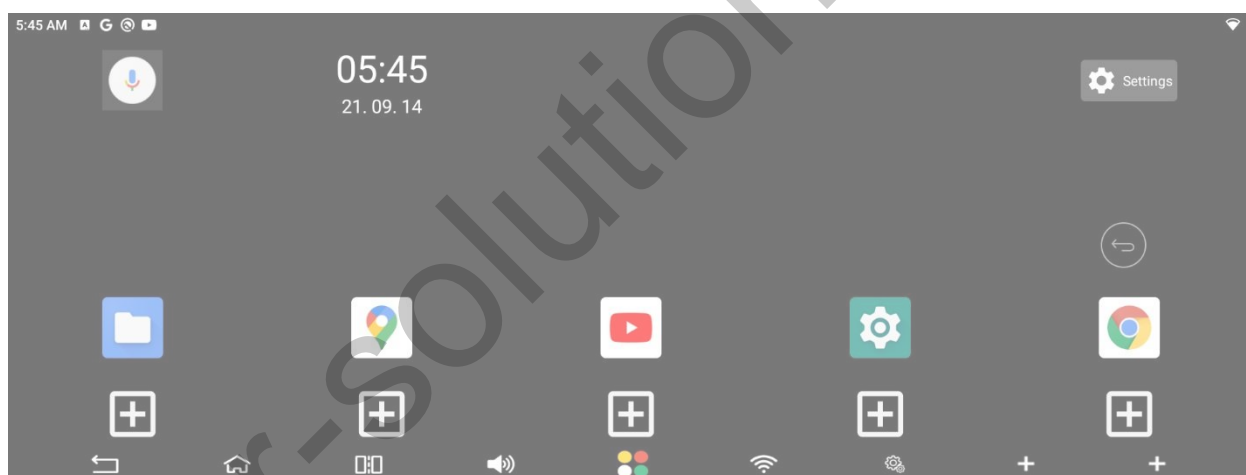


Installation Manual

Android Interface for Mercedes Benz NTG5.5 & NTG6.0



Specification

Car Compatibility:

NTG5.5 & NTG6.0 System

E Class 8.4"/12.3" 2016~

S Class 12.3" 2018~

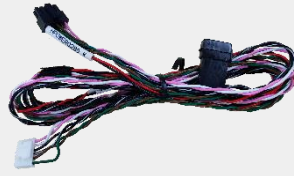
A/C Class/Sprinter 7"/10" 2019~

CATEGORY		SPECIFICATION
OS Version		10.0
CPU		ARM Cortex-A72 + Cortex-A53@2.0GHz (HEXA CORE) ARM Mali-T860 (QUAD CORE) - for GPU
Memory	RAM	4GB LPDDR4
	Internal Storage	32 GB eMMC
	External Storage	microSD slot (MAX 128GB)
Network	WI-FI	802.11 a/b/g/n/ac (2.4 GHz / 5 GHz) Internally on board with Ant.
	Bluetooth	4.0 (Internally on board with Antenna)
	GPS	GPS + GLONASS
Video	Out	HDMI x 1
	In	HDMI x 1, FCAM x 1, RCAM x 1
Audio	Out	AUX + SPK + BT + FM TX
	In	MIC
USB Port		HOST x 2 (Internal 2.0 Port x 1 + 3.0 Port x 1)
Touch Input		UART Cap touch panel (XWC5077 12.3"/XWC4487 10.2")
Resolution		1920 x 720 960 x 540
Language		Multi-Language
Power		Input : DC 9V ~ 18V Consumption : 10 Watt
Operation Temperature		-10 °C ~ 70 °C
Storage Temperature		-20 °C ~ 60 °C

Components



MAIN BOARD
QCPASS1593



POWER CABLE
HPOWER0280



NTG6.0 J by J Cable
HPOWER0272



LCD CABLE
HLCDCA0058



MULTI1 CABLE
HARETC0360



MULTI2 CABLE
HARETC0359



GPS CABLE
GPSANT0013



MIC CABLE
MICPHO0003



SPK CABLE
SPEAKER007



IR CABLE
HIRCAB0002

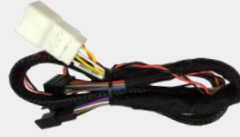


BUTTON CABLE
HARETC0001



REMOTE CTRL.
REMOTE0001

Components with Options



OPTION

NTG5.5 J by J Cable

TBD

DIP Switch Settings



*** ON: DOWN / OFF: UP**

Please make sure to disconnect the power cable of interface and reconnect to apply dip switch setting whenever changing DIP switch.

PIN	FUNCTION	Dip S/W SELECT
1	LCD Resolution	OFF : 1920 x 720 ON : 960 x 540
2	Ext. Cap Touch Panel	OFF : XWC5077 (12.3") ON : XWC4487 (10.2")
3	No Use (OFF) - for android	
4	GPS Power	OFF : Using Provided GPS ON : Using OEM GPS
5	OEM Touch Pad In/Out	OFF : Bypass ON : In/Out
6	Front Camera	OFF : Ext. Front Camera Mode ON : OEM Front Camera Mode
7	Rear Camera	OFF : OEM Rear Camera Mode ON : Ext. Rear Camera Mode
8	OEM Touch Screen	OFF : Without OEM Touch Screen ON : With OEM Touch Screen

Remote Control



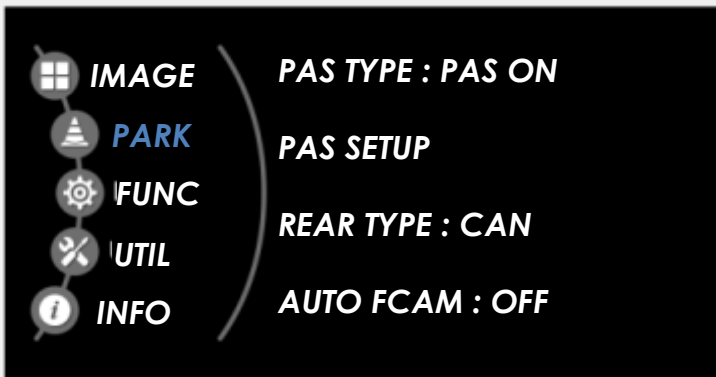
Key	FUNCTION
POWER & PIP	N/C
MENU	Activating OSD menu
OK	Making a selection, changing image display
▲	Moving upward
▼	Moving downward
◀	Moving leftward (If you press this button 2 seconds long, you can access the factory mode)
▶	Moving rightward (If you press this button 2 seconds long, you can reset all the data about user environment)

Factory Settings



IMAGE

Setting for image display



PARK

PAS TYPE:

Select parking line type.

NOT USED: Do not use parking line

PAS ON: No Use

PAS OFF: Use fixed parking line

PAS SETUP:

Move the position of parking line.

REAR TYPE:

Choose rear camera recognition.

CAN: Detecting the rear view camera by CAN signal. (Installer must connect "CAN" cable of the power cable to the "CAN" cable of the car)

LAMP: Detecting the rear view camera via "Grey Rear" wire. (Installer must connect "Rear-C" cable of the power cable to the rear lamp of the car)

AUTO FCAM:

Front Camera Display Setting

Factory Settings

IMAGE
PARK
FUNC
UTIL
INFO

CAR MODEL : BENZ

HD1 MODEL : SE-TV

FUNCTION

CAR MODEL: BENZ

HD1 MODEL: HDMI device settings

SE-TV/NONE(HDMI SKIP)

IMAGE
PARK
FUNC
UTIL
INFO

RESET ALL : NO

UTIL

RESET ALL:

Factory mode reset (YES/NO)

IMAGE
PARK
FUNC
UTIL
INFO

INFORMATION

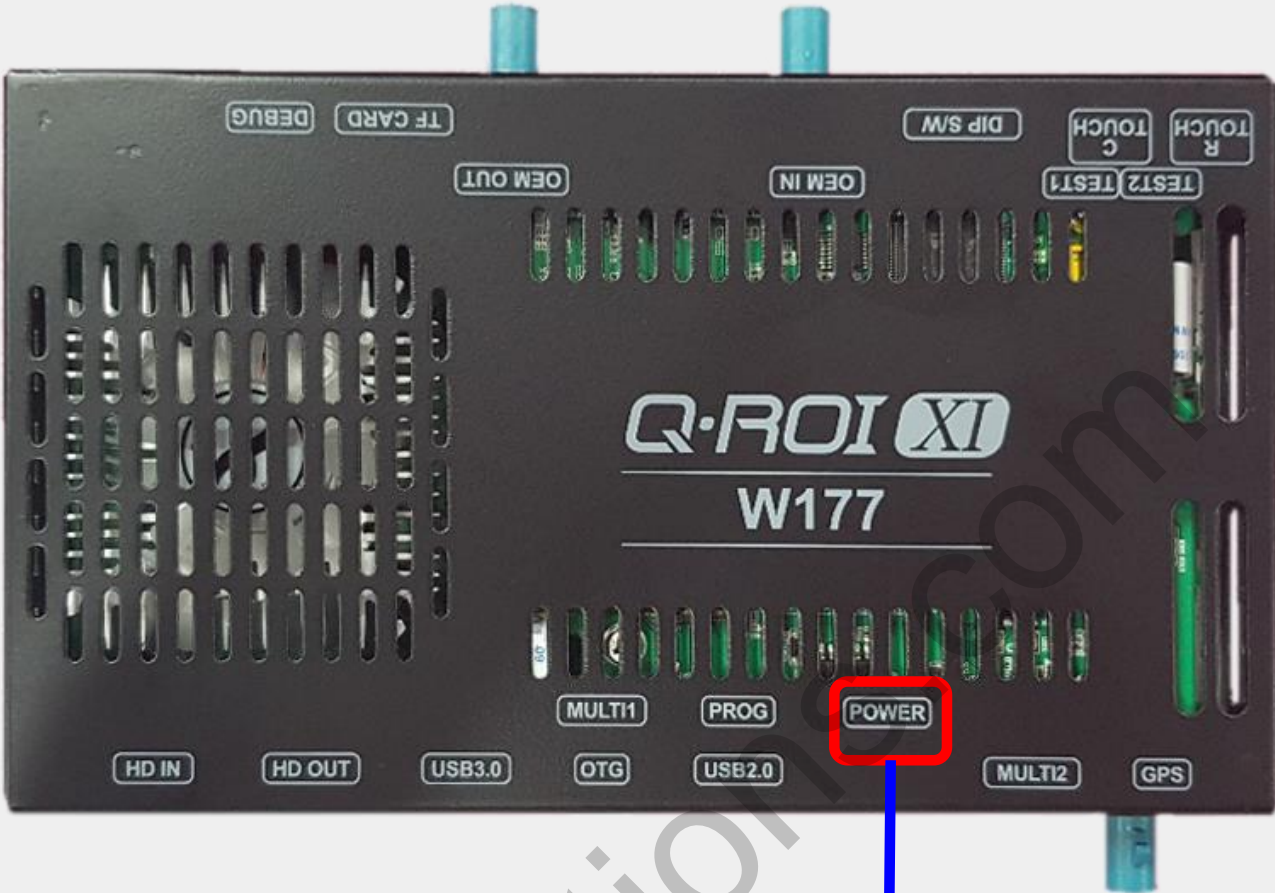
SW : 210909

HW : V2.0

INFO

System version information

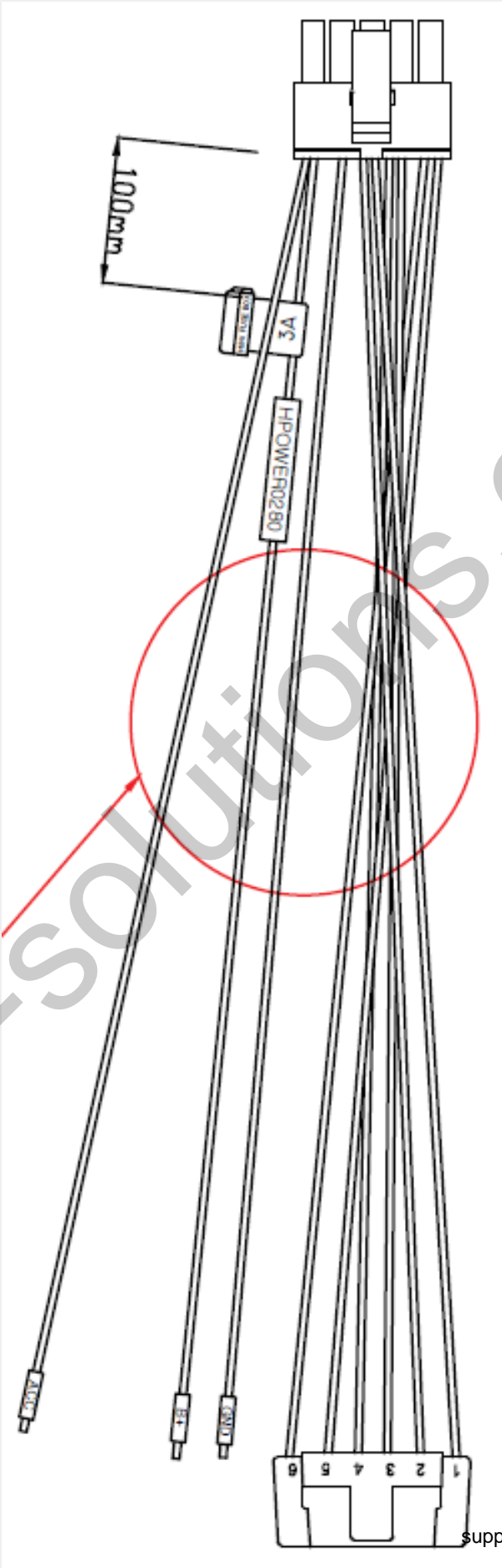
Installation Diagram



P1	연결	P2	COLOR	SIGNAL
1	X		RED	ACC
2	X		YELLOW	B+
3	X	N.C		
4	X		BLACK	GND
5	→	1	GREEN	JOG-H(IN)
6	→	2	BROWN	JOG-L(IN)
7	→	3	BLACK/WHITE	JOG-H(OUT)
8	→	4	BLACK	JOG-L(OUT)
9	→	5	WHITE	GEAR-H
10	→	6	PINK	GEAR-L

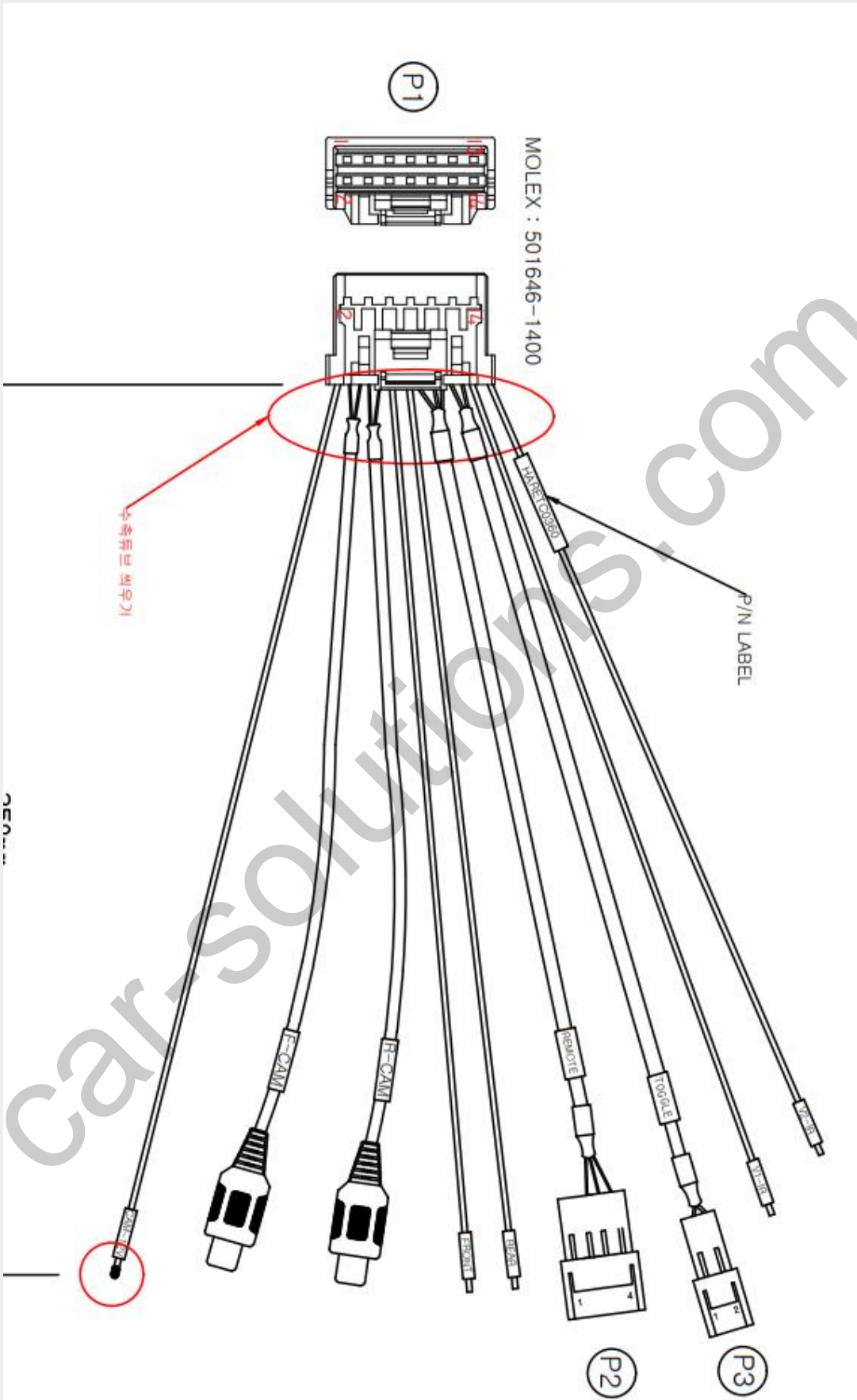
* Please refer to the next page for the multi cable and power cable drawings.

Power Cable Drawing

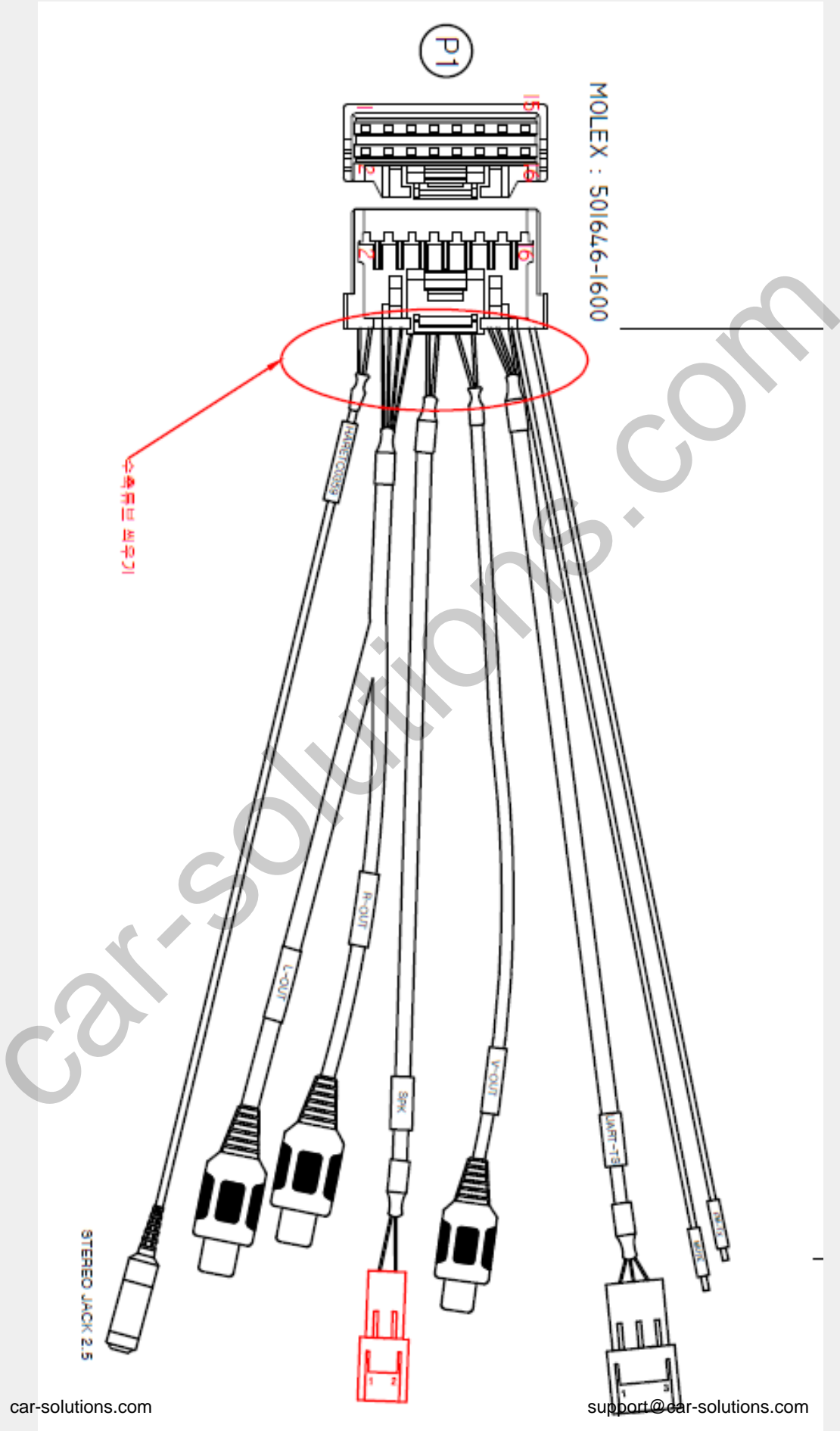


[illegible]

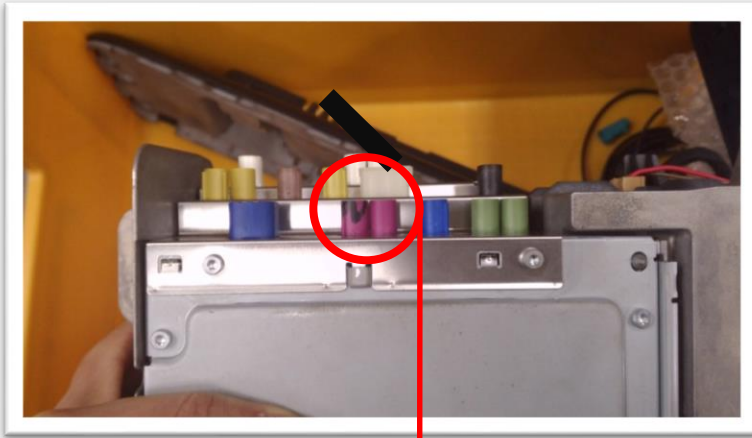
Multi1 Cable Drawing



Multi2 Cable Drawing



LCD In/Out Connection_ NTG6.0



Please find purple LVDS connector from NTG6.0 head unit for 10" screen

Please use provided LVDS cable [HLCDCA0058](#)

1. Disconnect the OEM LVDS cable from the backside of head unit
2. Connect the OEM cable to the female connector of supplied LVDS Fakra cable
3. Connect the male connector of supplied LVDS cable to the backside of monitor

OEM Cable

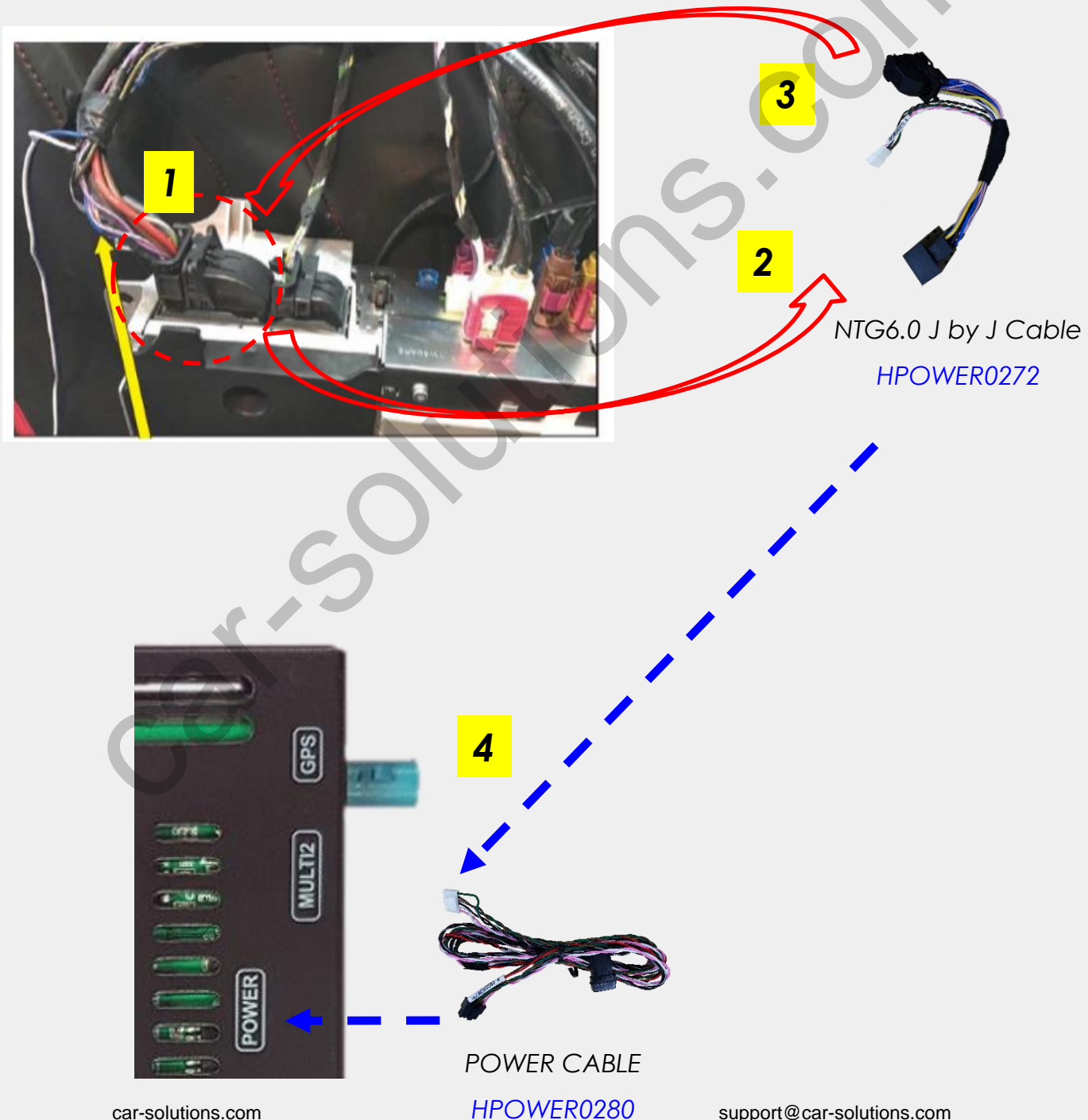


OEM HU



Power CAN In/Out Connection_ NTG6.0

1. Disconnect the OEM power cable from the backside of the command
2. Connect the OEM cable to the female connector of supplied power Jack by Jack cable
3. Connect the male connector of supplied power Jack by Jack cable to the backside of the monitor
4. Connect supplied power Jack by Jack Cable to the supplied IF cable and connect it to the Interface



LCD In/Out Connection_ NTG5.5



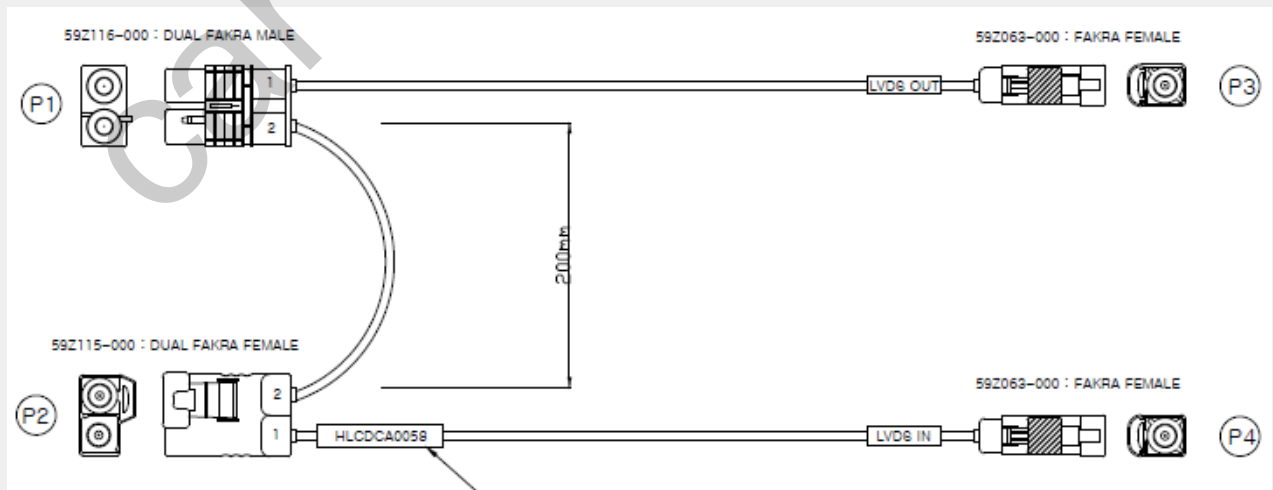
Please find beige LVDS connector from NTG5.5 head unit for **10"/12.3" screen**

In case of **10" and 12.3"** screen of NTG 5.5, please use provided LVDS cable [HLCDCA0058](#)

1. Disconnect the OEM LVDS cable from the backside of head unit
2. Connect the OEM cable to the female connector of supplied LVDS Fakra cable
3. Connect the male connector of supplied LVDS cable to the backside of monitor



LCD DUAL FAKRA
[HLCDCA0058](#)



LCD In/Out Connection_ NTG5.5



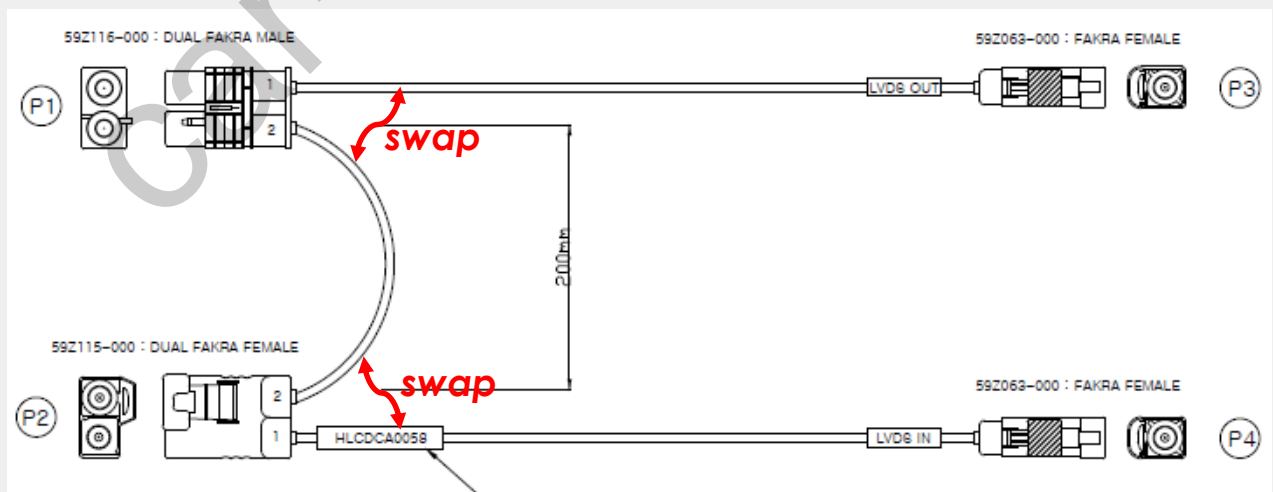
Please find blue LVDS connector from NTG5.5 head unit for **7"/8.4" screen**

In case of **7" and 8.4"** screen of NTG 5.5, please modify the pin location of provided LVDS cable [HLCDCA0058](#), otherwise, screen display will be black.

*** Swap location #1 and #2 both in male terminal and female terminal.**



LCD DUAL FAKRA
[HLCDCA0058](#)



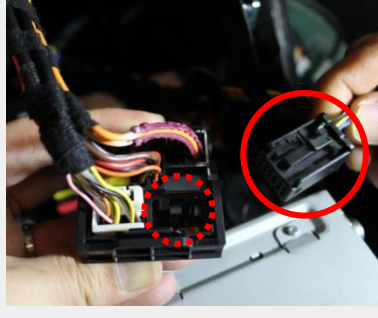
CAN In/Out Connection_ NTG5.5

* CAN IN/OUT connection for NTG5.5

- Find a bunch of wires from the command behind the monitor as shown below



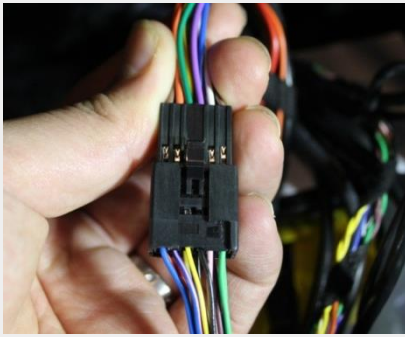
Find a bunch of cables from the command behind the command behind



Remove the black connector marked with a red circle



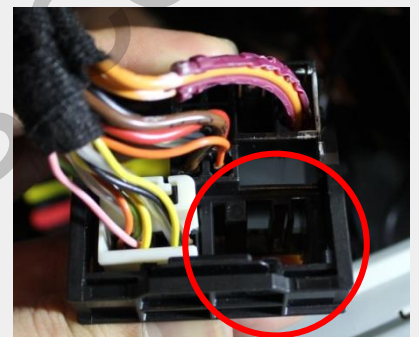
Take away the black connector cover



Connect the OEM connector to the supplied CAN IN/OUT

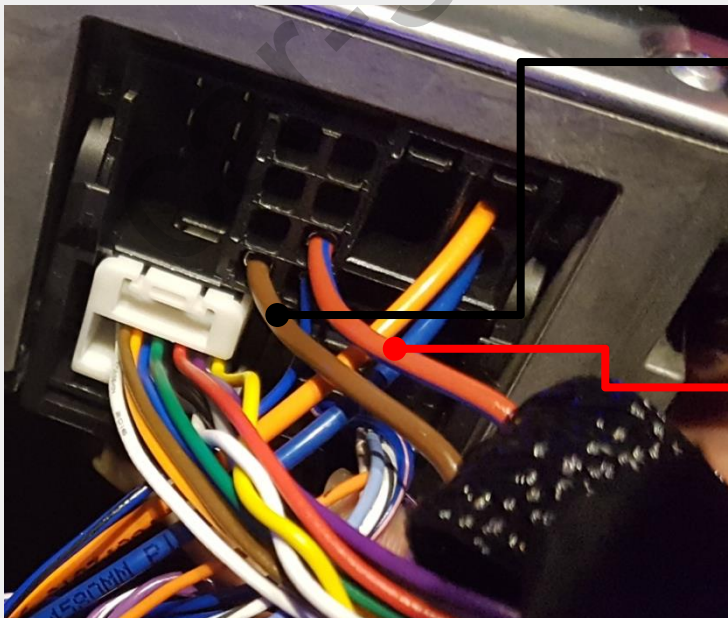


Put the black connector cover onto the supplied CAN IN/OUT cable



Reconnect the supplied cable where the black connector was removed.

Power Wire Connection_ NTG5.5



GROUND

* Connect the black ground wire of the supplied power cable to the brown OEM wire

B+

* Connect the red B+ wire of the supplied power cable to the orange/blue OEM wire

OEM Button Activation_ NTG6.0

* Press high lighted OEM button for 3 seconds long to mode switch



OEM Button Activation_ NTG6.0

1. Switch to OEM in Rear Camera Mode :

Short press below high lighted button in Ext. rear camera mode to switch OEM screen

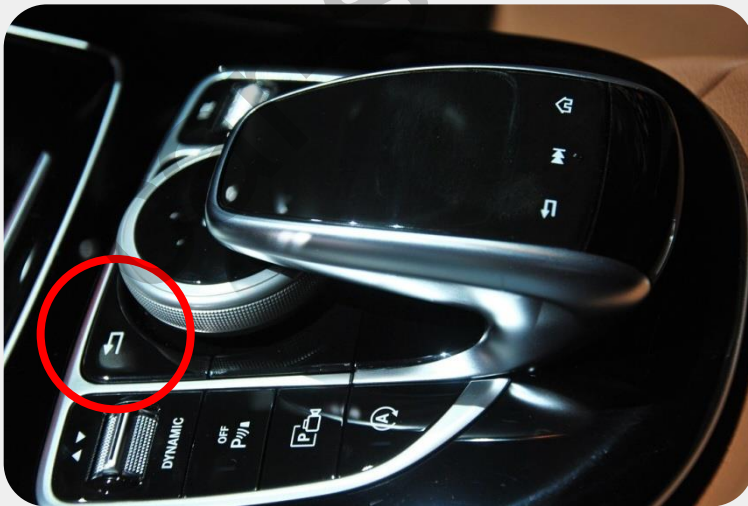
2. DVD, DTV OSD Control :

Slide arrow button right and left for DTV and DVD channel up(+) and down(-)

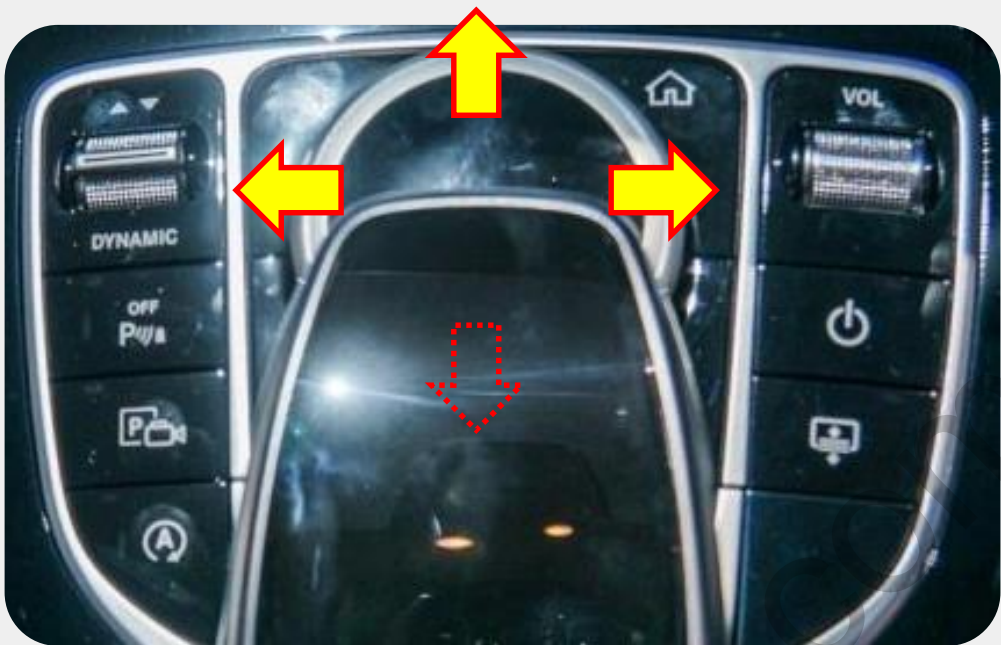


OEM Button Activation_ NTG5.5

* Press high lighted OEM button for 3 seconds long to mode switch



OEM Button Activation_ NTG5.5



1. Rear Camera Mode Switch

Monitor	Joy shuttle Direction	Mode	Pushing Joy shuttle	Mode
12.3inch	←	Rear, Front Camera mode	Short	Ext. Camera <-> OEM Screen
8.4inch	↓	Rear, Front Camera mode	Short	Ext. Camera <-> OEM Screen

2. DVD, DTV OSD Control

OSD control remote will appear if the joy shuttle is moved to the left for a short time in DVD, DTV mode

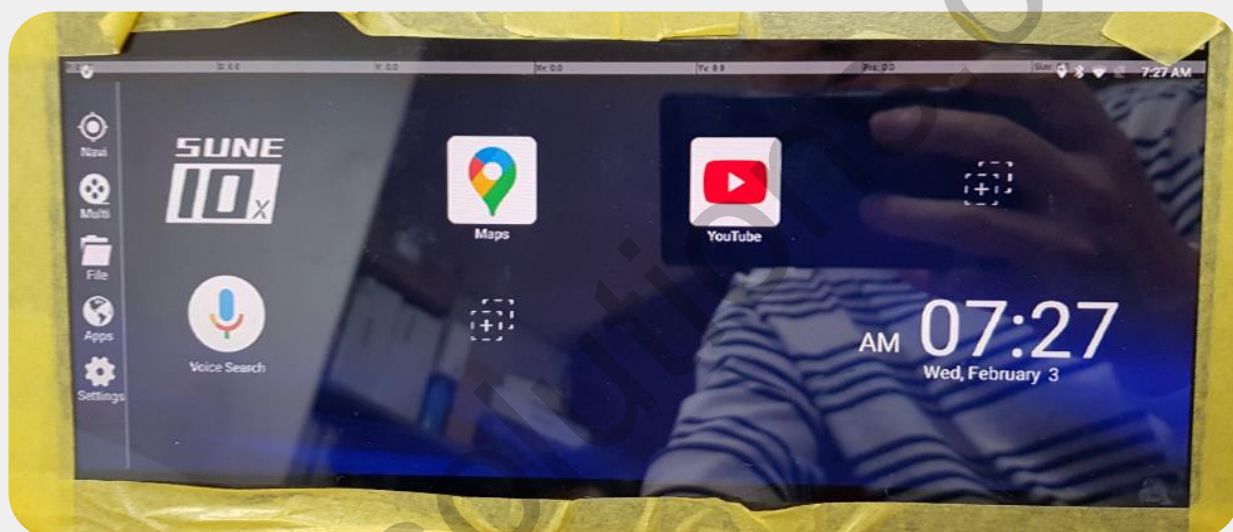
Monitor	Direction	Mode	Pushing Joy shuttle	Movement
12.3inch/ 8.4inch	↑ ↓ ← →	DVD DTV	Short	UP,DOWN,LEFT,RIGHT
	←		Long	Select

Screen Ratio Change on HD/AV Mode_ NTG6.0

Please press high lighted button for 3secs long to change screen display ratio.



Full screen display on HDMI, AV Mode



4:3 ratio screen display on HDMI, AV Mode



Split Screen on Rear Camera Mode_ NTG6.0

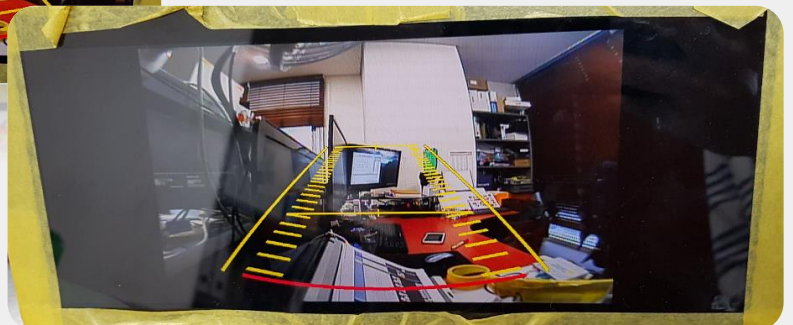
Please press high lighted button for 3secs long to change screen display ratio.



Full screen display on Rear Camera Mode



Split screen display on Rear Camera Mode

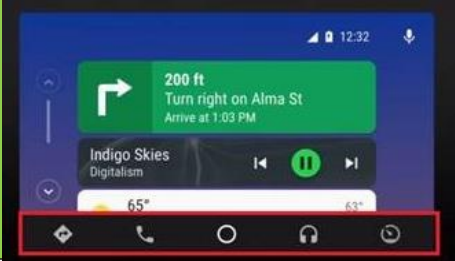


Control Carplay/Android Auto Module_ NTG5.5

Please make sure to select NAVI MODEL as SE-CP



Section	Button	Operation	Function
MMI	Wheel Push	Short press	Select
		Long press (3sec)	Voice Control
	JOG LEFT	Short press	Left
	JOG RIGHT	Short press	Right
	JOG UP	Long press (3sec)	Home
	JOG DOWN	Long press (3sec)	Moving to Android Auto Down Side Menu

A screenshot of the Android Auto interface. It shows a navigation card with a right turn instruction: '200 ft Turn right on Alma St. Arrive at 1:03 PM'. Below the navigation card is a media player for 'Indigo Skies Digitalism'. At the bottom of the screen, a red box highlights the Android Auto dock icons: Home, Phone, Carplay/Android Auto, Media, and Clock.

Cautions Before Installation

1. Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.
2. Power cable should be separated when connecting interface.
3. Should be no any electronic devices or magnetic pole around installation place.
4. All steps of installation should be done by well-trained specialist.
5. Dismantling without manufacturer's permission can not be guaranteed, (No permission to break attached label on the board.)
6. Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.
7. According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.

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 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)