



# Installation Guide

Camera Interface for New Mercedes-BENZ NTG 5.0, 5.1, 5.2

<b>Model Name</b>	<b>MB-NTG50 - PAS-MB-425P</b>
<b>Released Date</b>	<b>2021-04-15</b>
<b>Manual Version</b>	<b>1.1</b>
<b>Language</b>	<b>English</b>



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 **Warning:**

- In order to protect the driving safety and avoid break the traffic law; please DO NOT operate the interface while driving.
- The reversing surveillance function just is used in reversing assistance. Please check the entire surroundings while reversing.
- All steps of installation should be done by the well-trained specialist.
- During installation, the ignition key should be taken off and after all installation finished, connect power cable last.
- Please DO NOT plug or pull the connected cables in the state of power-on, in order to avoid damaged monitor or accessory.
- Install wiring in a manner in which cables will not come in contact with metal parts. The wiring may be damaged by contact with metal parts, resulting in fire and shocks. Avoid all contact with hot surfaces when wiring the main unit. High temperatures may damage wiring, causing shorts, arcing and fires.
- Please DO NOT put the product in the damp environment or water, in order to avoid electric shock, damaged and fire

accident caused by a short circuit.

- Kindly check all components are in the box when receiving the product. If anything missing, inform to the supplier/manufacturer.
- Start the engine before loading, check the interface whether have function displayed, key control whether correct, the vehicle interface whether having a scratch. Please give the feedback to the supplier/manufacturer if there have any questions.
- Please note that put the disassembled automotive components in a good way on the installation process, avoid scratching the instrument panel, the leftovers of connecting cables need to handle and DO NOT leave it in the car. The connecting plug must be insulated in order to short circuit.
- The cables should be connected in a good way, the vehicle installation space is a little small, so reduce space usage as far as possible. There should be a good plan about connect cables, avoid affecting the active component of connecting, such as control components of turning the steering wheel, throttle and brake pedal. There need to be fastened after connecting cables in case of a drop.



## 2.Compatibility:

<b>Car models</b>	<b>DIP</b>
<b>2015-2017 NTG 5.0 A/B/E/GLA/CLA/CLS/SLC/GLE</b>	
<b>2015-2017 C Class (8.4")</b>	
<b>2015-2017 GLC, C class (7")</b>	
<b>2015-2017 GLE( 8.4")</b>	
<b>V class</b>	



### **3.Features:**

- A. Support Intelligent Parking Assist System including PDC (Parking Distance Control) and FPG (Flexible Parking Guidelines)**
- B. Support further software update by TF Card**
- C. Support power supply for rear view camera**
- D. Support power supply for DVR device**
- E. Support automatically switched to front view camera, auto trigger after R to D gear**



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## 4. Specifications

### A. Interface I/O Spec:

**Input: CVBS \*3 (Front/Rear View Camera, 360, Video), VGA \*1 (Specific 360 Panoramic System)**

**Output: LVDS Output**

### B. Power Spec:

**Input Power: 9V-16V**

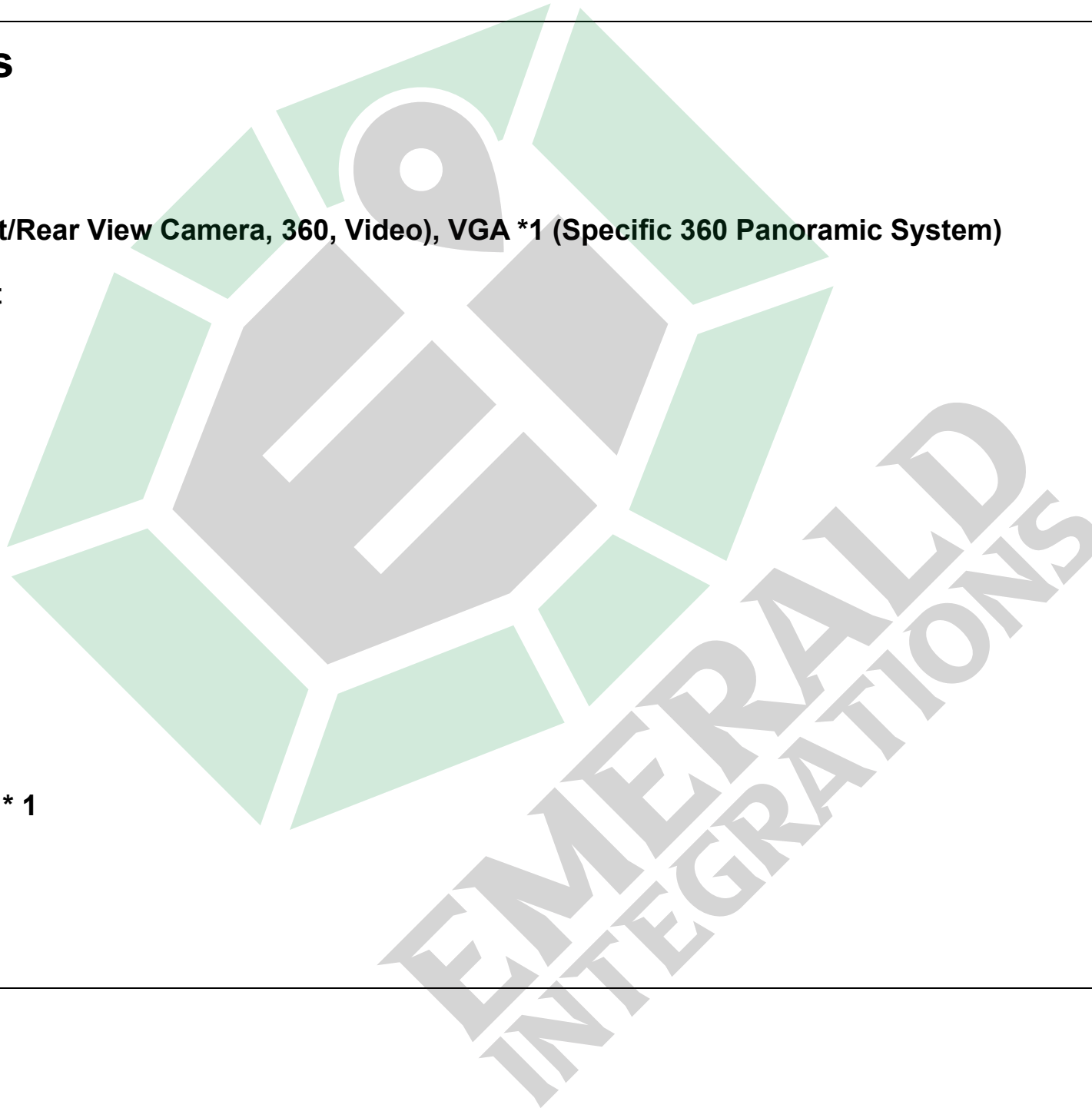
**Consumption: 6W**

### C. Package Content:

**Interface Unit \* 1**

**Main Power Harness \* 1**

**LVDS Cable \* 1**

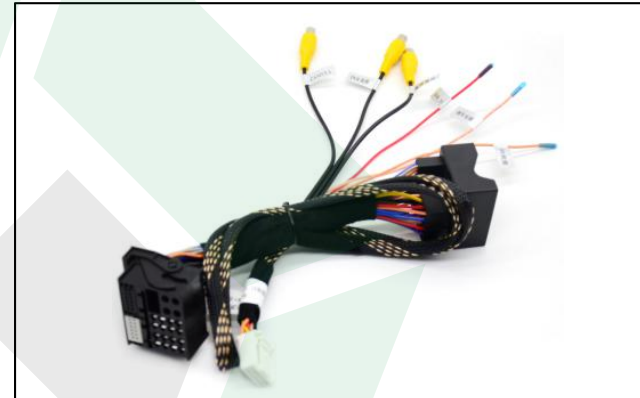


## 5.Package Components



**Main Unit**

Dimension: 143\*102\*26 mm



**Quadlock Main Power Cable**



**LVDS Cables**

## 6. Wiring Diagram

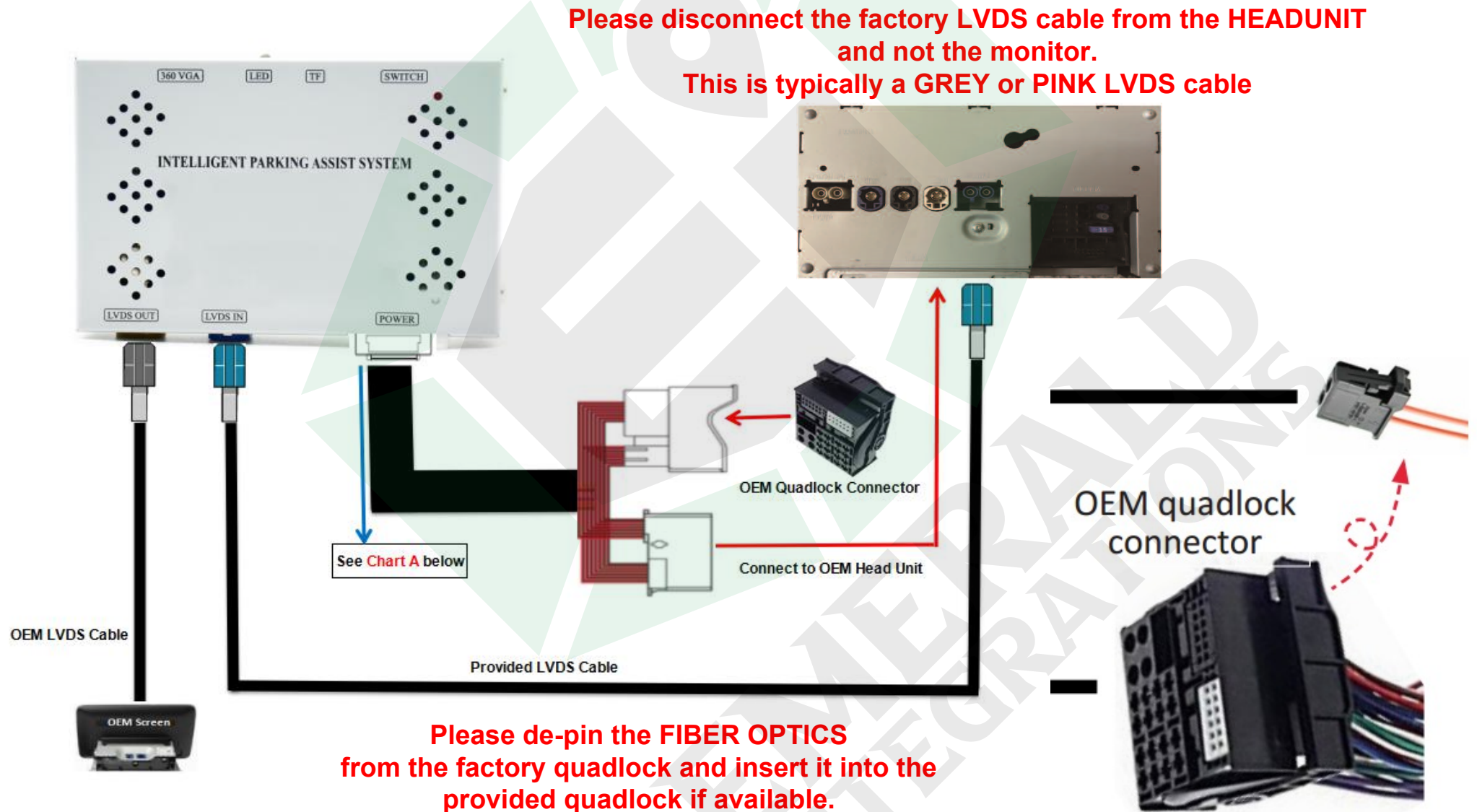
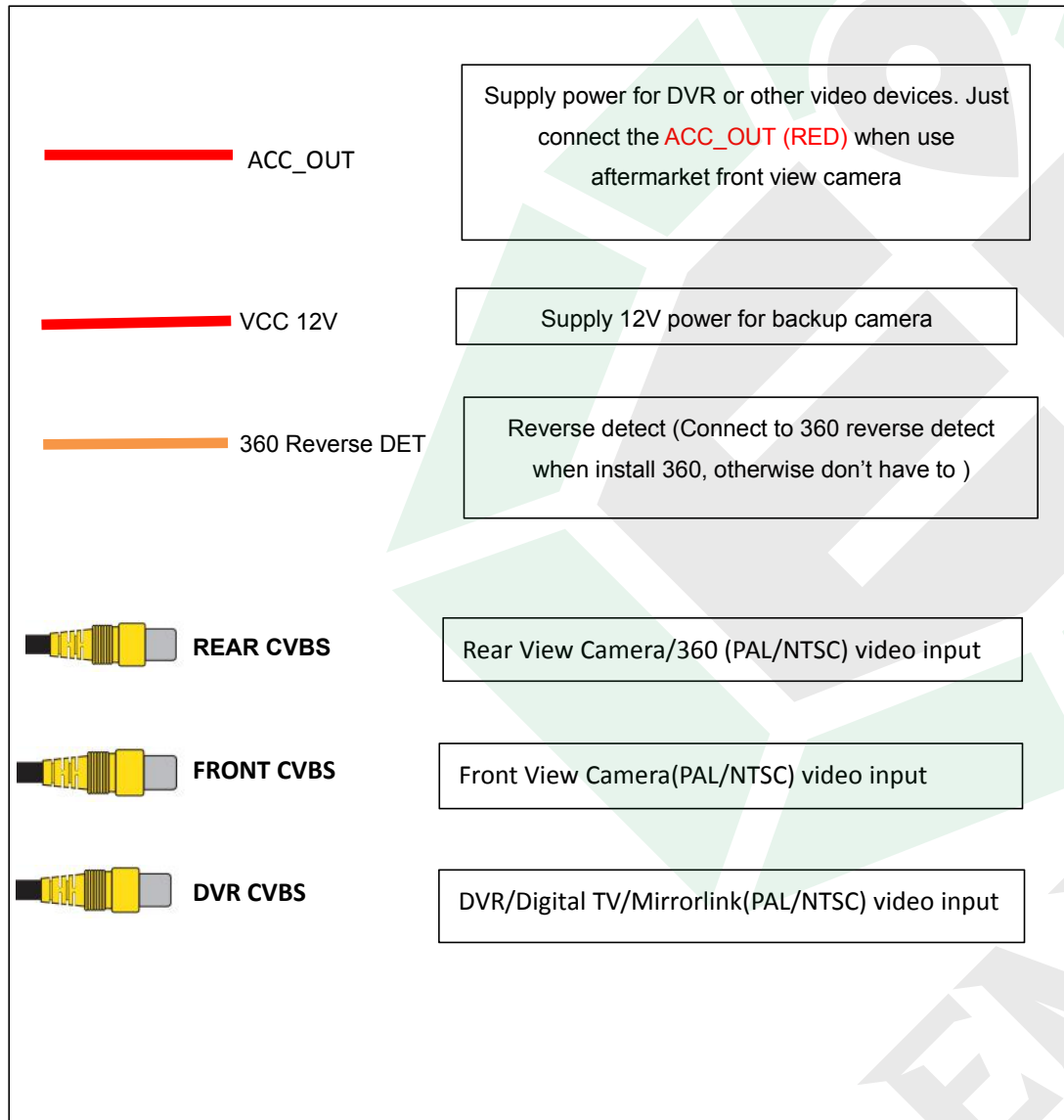


Chart A ↓



**Use this for REAR CAMERA POWER**

**Use this for FRONT CAMERA POWER**

**NOTE: Reverse Detect is ONLY for Manual Transmission (MT) Vehicles. Not used for Automatic Vehicle (AT).**

**NOTE: Front camera in and video-3 (DVR) in will be invalid while using reverse detect cable for activating the reverse camera.**

## 7.DIP Switch Settings



Car models	DIP	1	2	3
2015-2017 NTG 5.0 A/B/E/GLA/CLA/CLS/SLC/GLE		OFF▲	OFF▲	OFF▲
2015-2017 C Class (8.4")		ON▽	ON▽	OFF▲
2015-2017 GLC, C class (7")		ON▽	OFF▲	OFF▲
2015-2017 GLE( 8.4")		OFF▲	ON▽	OFF▲
V class		OFF▲	OFF▲	ON▽

DIP	ON▽	OFF▲
4	Disable PDC	Enable PDC
5	Disable Parking guideline	Enable Parking guideline
6	Enable video-3(DVR) in	Disable video-3(DVR) in
7	Display front camera for 10S automatically after shifted from "R" gear	Disable Front-cam
8		

## \* Dip Switcher Settings II (Quick Setting) :

## Some common DIP shortcuts

Function \ DIP	4	5	6	7	8
Aftermarket rear camera (CAN bus control)	ON / OFF	ON / OFF	ON / OFF	ON / OFF	OFF▲
Aftermarket rear camera (reversing lights control)	OFF▲	OFF▲	OFF▲	OFF▲	ON▽
Factory rear camera	ON / OFF	ON▽	ON / OFF	ON / OFF	ON▽



Press and hold "Hang up" button on steering wheel to display video-3(external video in)

## 8. Operation Instruction

- Note: Please use the protective measures, avoid damaging the original car accessories



1. Please press the red circle position



2. Open the silver button panel



3. Remove the two screws



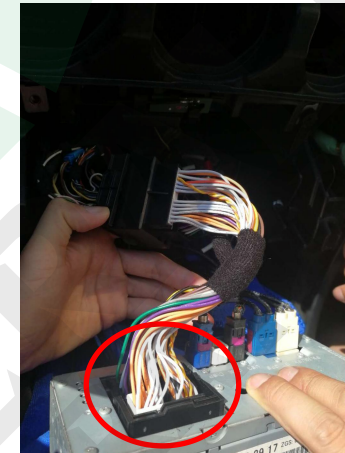
4. Hold up with both hands, the center stack will appear.



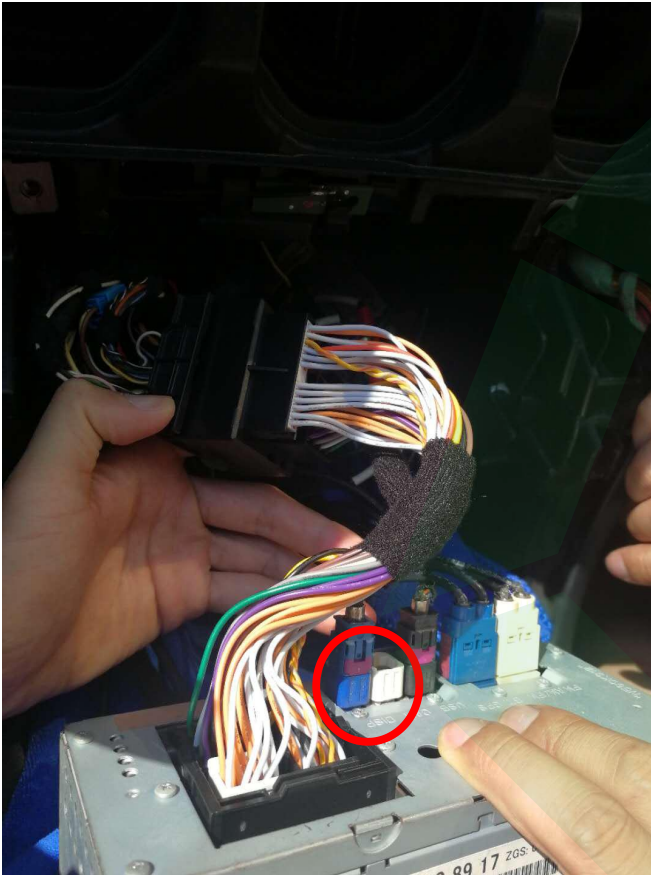
5. Plug the LVDS cables from the head unit



6. Remove the screws from head unit



7. Connect to the power cables from head unit



8. Connect to the blue LVDS socket from OEM head unit



9. Plug the blue LVDS cables from OEM head unit, then connect to the LVDS OUT of camera interface box.

## 9. DVR Switching



Please put on (▼) the dip switch No.6, turn on the DVR, then long press 2 seconds to enter DVR by press hang up button on steering wheel.

EMERALD  
INTEGRATIONS

