#### 27-876— MERCEDES NTG4.5



#### TURN ON AUX—important

The AUX in function on the car must be activated for the Audio to work on this interface. The Driver of the car must select AUX when using CARPLAY or Android Auto.

To activate AUX you need to access the ENGINEERING MENU. (Utube video to activate AUX for NTG4.5: https://youtu.be/\_ye5OO6r1IY)

Alternatively if the car has USB or Music interface connector for audio you can use a USB to AUX converter (not provided in the kit) and then connect the 3.5mm jack cable attached to the T Harness to this converter.

#### INSTALLATION

1-Set dip switches according to screen size ( unplug power if changing these)

2-Remove original radio and connect new T wire harness. Make sure you move the fibre optic cable from the original connector to the new one. Connect the USB and video cables. If adding an aftermarket camera see below.

3-Remove the Grey LVDS connector from the radio and connect it to the new LVDS connector. The other side of the new LVDS is connected to the radio.

4-Attach the wifi antenna. Fit as far away from the black box as possible and not attached to any metal.

The 3.5mm jack cable is not needed unless you are using an AMI converter instead of the cars original AUX

After correct installation you will be able to switch between the original Mercedes screen and Carplay by long pressing the "C" button on the I drive knob controller ,or on some car models the return button on the left side steering wheel buttons.

5-Go to the SETUP menu and check the systems settings. Language, Display, Audio & Microphone, RHD, Reverse camera

#### MICROPHONE SETTINGS

The Microphone settings may need to be adjusted to prevent echo. Check the sound of handsfree calling and receiving before handing car to user. See FAQ section

#### AFTERMARKET REVERSE CAMERA CONNECTION

For manual transmission cars you will need to connect the Purple wire (Back/ Reverse detect) to a 12v reverse feed or reverse lamp. In Carplay box Settings—Reverse-Reverse Camera—Aftermarket.... REVERSE LINE DETECT ON For Automatic transmission cars you do not need to connect this wire as the Reverse will be detected by the CANBus. In Carplay box Settings—Reverse-Reverse Camera—Aftermarket.... REVERSE LINE DETECT OFF

#### FRONT CAMERA

The front camera will switch on automatically after R to Drive gear is selected. The view time can be adjusted in settings.

## **Car Compatibility Chart**

Car Models	Specific Models	Production Year	Specific Models	Screen Size
A-Class	W176	2012 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	5.8 inch 7 inch
CLA-Class	C117	2014 ~ 2015	- COMAND APS NTG 4.5 and AUDIO 20	5.8 inch 7 inch
B-Class	W246	2012 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	5.8 inch 7 inch
C-Class	W204	2011 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	5.8 inch 7 inch
SLK-Class	R172	2012 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	7 inch
E-Class	W212	2012 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	5.8 inch 7 inch
CLS-Class	W218	2011 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	7 inch
SL-Class	R231	2012 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	7 inch
GLK-Class	X253	2012 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	5.8 inch 7 inch
ML-Class	W166	2012 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	7 inch
G-Class	X166	2012 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	7 inch
GL-Class	W447	2013 ~ 2014	- COMAND APS NTG 4.5 and AUDIO 20	7 inch



Mercedes NTG4.5 <7 inch>





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Mercedes NTG4.5 <5.8 inch>

## **DIP Switch Settings**



PIN	ON (▼)	OFF(▲)		No.3	No.4	No.5	No.6	Year	Car Model	Code Name	Screen Size
1	External Microphone	OEM Microphone							A-Class	W176	5.8 inch
		-	-						B-Class	W246	5.8 inch
2	Used Default " <b>OFF(</b> ▲)"			ON (♥) OFF	OFF(▲)	FF(▲) ON (♥)	OFF(▲)	2011 ~ 2014	C-Class	W204	5.8 inch
3	Selection of cor mode								E-Class	W212	5.8 inch
4	Selection of car mode								GLK-Class	X204	5.8 inch
5	ON (▼) <5.8 Inch 400 X 240>								E-Class	W212	7 inch
									CLS-Class	W218	7 inch
6	ON (▼) <7 Inch 800 X 480>								GLK-Class	X204	7 inch
7	7 Used Default "OFF(▲)"			ON (♥)	OFF(▲)	OFF(▲)	ON (♥)	2012 ~ 2014	ML-Class	W166	7 inch
									G-Class	W463	7 inch
8	8 Used Default "ON (▼)"								GL-Class	X166	7 inch
			1						SLK-Class	R172	7 inch

10

11

12

A\_L\_AMI

Audio GND

A\_L\_AUX\_CAR

22

23

24

A\_R\_AUX\_CAR

BATTERY POWER INPUT

GROUND

Body Connector specifications



7

8

DATA -

5V POWER

15

16

GROUND

12V(ACC)\_OUT

LVDS Cable

**InCarTec** 





## **Full Installation Diagram**

# × × × ×

We recommend using for each phone manufacturer genuine cable Please. Never using "Adapter Type and Multi cable"





### **User Interface**

#### Airplay (Apple i-phone mirroring) <WIFI>



#### It is connected by wifi signal

Turn on the wifi on the i-phone
Select Carplayxxxxx
(The wifi name might be defirent) and connect

Select "Air play" in the "i-Phone Control Center"
The smart phone screen will be copy on the car screen

#### WireAuto (Android Auto) <Cable>





WirelessDev Setting (Bluetooth)



Wireless Carplay Settings (Bluetooth) \* Only (Apple i-Phone)

USB Player (Media, Music)

HDMI IN PUT



Android Mirroring <Cable>



Setup <Please Check Next Page>



Front Camera



When it installed front view camera The user can check front view camera image with it 凶

7:53 **ILTE** 

11

4

5

2

3

**Activation by original buttons** 



OK

NTG4.5 OEM Buttons

		laying Calendar Po	odcasts Audiobooks	ф и и 🧃				
	Button	Function	Operation	Remarks				
	2	Changing	Press the button 3 seconds	Order : OEM → Car Play				
		Modes	Press the button short time	Return to the OEM mode in any modes.				
$\leftrightarrow$	<u>, 1</u> , 1	Move the pointer	Turn the dial	Apple Car Play Function				
	Select	Press the dial	Google Android Auto 🛗					
3	9	Answer Phone Call	Press the hutton	Apple Car Play Function				
	Answer Filone Gail		Google Android Auto 👘					
		Reset	Press the button 5 seconds	Apple Car Play Function 😤				

Press the button 3 seconds

Press the button short time

Press the button 3 seconds

Press the button

Apple Car Play

Maps

9

Music

Tuesday

11

Go back

Changing

Modes

"Siri"

"Google Assistant"

10-



Google Android Auto

Order : OEM  $\rightarrow$  Car Play

Apple Car Play Function 🔥

Google Android Auto

Return to the OEM mode in any modes.

Android Auto



#### 27-876—SMARTPHONE/ CAMERA INTEGRATION FOR MERCEDES WITH NTG 4.5

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#### 27-876—SMARTPHONE/ CAMERA INTEGRATION FOR MERCEDES WITH NTG 4.5





#### 27-876— MERCEDES NTG4.5



#### Q: When switching to Carplay or Android the screen displays no signal, a blank screen , abnormal screen or no response ?

A-Check the LVDS wiring is connected as per the wiring diagram.A-Check that the pins in the LVDS connectors are not bent or not making contactA-Check that the dip switch setting is correct. Try changing them . Make sure you unplug the box power each time a pin is changed.

FAQ

#### Q: I don't have any sound ?

A-make sure the cars original MOST fibre optic cable has been moved to the new connector on the T harnessA-Activate the AUX from the cars engineering menu. Select AUX on cars audio settings.A-If its not possible to activate the AUX you will need a AMI to AUX converter cable

#### Q: Unable to connect with wireless Carplay ?

A-make sure Carplay and wifi is turned on on the mobile phone

- A-Clear the Bluetooth devices from the cars menu and the phone . Then pair and connect again
- A-On the main menu select Wireless Dev , rest the Bluetooth then pair
- A-Check and restore Mobile network on phone.
- A-Check that the mobile phone Siri permissions are all turned on.
- A-Check the wifi antenna is connected and not attached to Metal or the black box itself. (fit away from the black box)

#### $Q\!\!:$ When I call someone , the caller can hear himself in an echo or $\,$ I am very faint.

A–Adjust the mic volume of the car to normal use

- A-in Audio settings menu set the "Mic Echo PreConfig" to C and Loudness off. Switch ign off and on.
- A– fine tune Microphone delay and Microphone OP
- A-Suggested Audio volume 13, Microphone volume 12, AEC quality  $\,2$
- A- to increase volume that caller hears increase Microphone PGA and Volume

#### Q: The steering wheel buttons do not work?

A-In settings turn on "Enable Wheel Key"