Installation Manual

Multimedia Interface for Mazda

Manual Date : 2020.10

•Specification

Car compatibility: *CX9 2017~*

                                                          MAZDA3 2017~

                                                          CX5 2015~

Components: *Interface Main*1*

                                                          *Sub Board*1*

Interface Input / Output specification :

                    Input: *LVDS IN (Car System) *1*

                                                          *HDMI *1*

                                                          *Analog RGB *1*

                                                          *AV *1*

                                                          *CVBS(Front Camera) *1*

                                                          *CVBS(Rear Camera) *1*

                    Output: *LVDS OUT (Car System) *1*

Power Spec:

                    Input Power: *8VDC ~ 18VDC*

                    Consumption: *5WATT*

Switch input mode:

1.   *External video sources skip function: Able to control input videos on and off via Dip switches*

2.   *Able to switch videos via the remote, button switch and original OEM button*

3.   *Able to detect the rear view camera by CAN or rear lamp cable*

Main board
QCPASS1199

Power J By J
HPOWER0204

MULTI cable
HARETC0240

RGB cable
HRGBCA0026

Sub board
QCPASS1192

HDMI Cable
HARETC0067

LCD IN cable *2
HLVDSC0063

LVDS cable
HARETC0259

AV cable
HAVCAB0056

AUX cable
HARETC0265

Res. T/S cable
HTOUCH0004

REAR cable
HARETC0002

IR cable
HIRCAB0002

Remote cable
REMOTE0001

BUTTON cable
HARETC0001

•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.

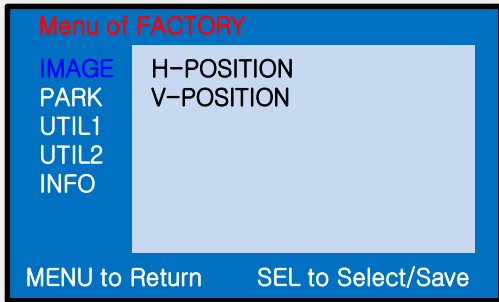| PIN	FUNCTION	Dip S/W SETTING
1	RGB INPUT MUTE	OFF : RGB DISPLAY ON : Skipping RGB Mode
2	HDMI1 MODE MUTE	OFF : HDMI1 DISPALY ON : Skipping HDMI1 Mode
3	AV1 MODE MUTE	OFF : AV DISPLAY ON : Skipping AV Mode
4	AV2 MODE MUTE	OFF : AV DISPLAY ON : Skipping AV Mode
5	NO USE(OFF)	
6	*Please refer below chart for car model setting*	
7	REAR MODE	OFF : OEM Rear Camera ON : External Rear Camera
8	*Please refer below chart for car model setting*	

CAR MODEL	DIP #6	DIP #8
2015~2016 CX-5 (7")	OFF	ON
2017~2018 MAZ3 (7")	OFF	ON
2017~2018 CX-9 (8")	OFF	ON

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)

Menu of FACTORY

IMAGE	H−POSITION
PARK	V−POSITION
UTIL1	
UTIL2	
INFO	

MENU to Return   SEL to Select/Save

IMAGE

H-POSITION/V-POSITION *Setting*

Menu of FACTORY

IMAGE	PAS TYPE
PARK	PAS SETUP
UTIL1	REAR TYPE
UTIL2	RADAR ENABLE
INFO	

MENU to Return   SEL to Select/Save
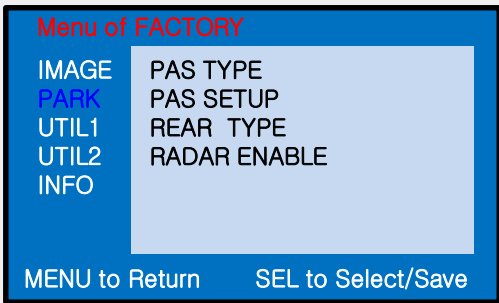
PARK

PAS TYPE: *Select parking line type*

 NOT USED: Do not use parking line

 PAS ON: Use Flexible Parking Lines

 PAS OFF: Use fixed parking line

PAS SETUP:

You can move the position of parking line.

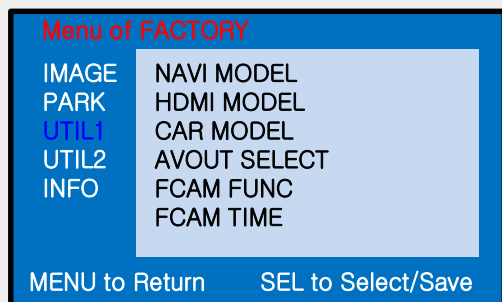**REAR TYPE:** *Choose rear camera recognition.*

 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)*

RADAR ENABLE:

Setting up parking distance alarm sensor (ON/OFF)

•Factory Settings

```
Menu of FACTORY
IMAGE    NAVI MODEL
PARK     HDMI MODEL
UTIL1    CAR MODEL
UTIL2    AVOUT SELECT
INFO     FCAM FUNC
         FCAM TIME

MENU to Return    SEL to Select/Save
```

UTIL1

NAVI/HDMI MODEL: *Android, car-play, navigation model setting*

CAR MODEL: *Select the car model*
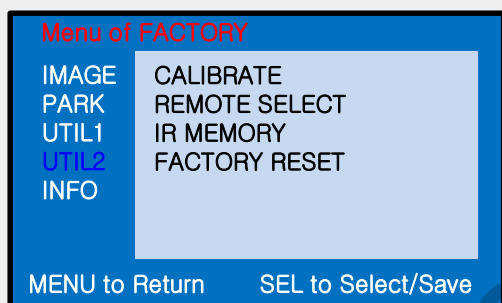
HDMI2 SKIP: *HDMI2 Mode (ON/OFF)*

AVOUT SELECT:

Select background sound through car AUX

MODE BUTTON: *OEM button to change the mode*

FACM FUNC: *(ON/OFF)*

F-CAM TIME :

Time setting for the front camera display

(OFF, 3s, 5s, 10s, 15s)

```
Menu of FACTORY
IMAGE    CALIBRATE
PARK     REMOTE SELECT
UTIL1    IR MEMORY
UTIL2    FACTORY RESET
INFO

MENU to Return    SEL to Select/Save
```

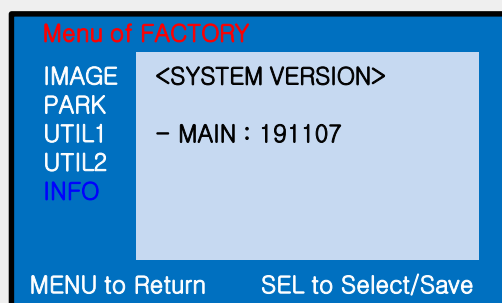## UTIL2

CALIBRATE: *Able to calibrate Res. T/S*

REMOTE SELECT:

Able to remote control on DVD, DTV by

selecting "USER" after IR memory registered

IR MEMORY:

Register IR memory (Remote Control Value)

of DVD, DTV

FACTORY RESET: *Factory mode reset (YES/NO)*

```
Menu of FACTORY
IMAGE    <SYSTEM VERSION>
PARK
UTIL1    - MAIN : 191107
UTIL2
INFO

MENU to Return    SEL to Select/Save
```

INFO

System version information

• Activation with OEM Button

\<Steering wheel\>

\<Gear box\>

Position	Steering Wheel	Gear box				
Buttons	Hang-up phone	Nav	Music	Home	Star	Wheel
Long	Mode changes	-				
Short	-	Back to OEM mode				

\<Steering Wheel\>

\<Gear box\>

Position	Steering Wheel	Gear box
Buttons	«,»	Push knob up/down
Function	DTV Channel up/down	

OEM MNT & HU

* OEM power able to supplied power female connector,
supplied power male connector to OEM head unit.

OEM Cable →

Power/CAN Connection

Supplied LVDS cable
HLVDSC0063 *2

1 LVDS from MNT to sub board "LCD OUT"

2 LVDS from under the head unit to sub board "Command IN"

LVDS Cable

HDMI Cable

POWER/CAN | ISP #2 | ISP #1 | LED | T/S OUT (UART) | T/S OUT (NAVI) | PORT IN/OUT | LVDS OUT

DIP S/W

TEST

○ MULTIMEDIA VIDEO INTERFACE With CAN

Model : QHI-MAZ3-MAIN U
Product Code : QHI-MAZ3-MAIN-1801-021

5V-OUT | HD | MULTI | AV | RGB-IN

RGB Pin#7 is UART-TX for UART Touch

HDMI In *1

AV in *2
Rear camera in *1
Front camera in *1
Aux Out *1
Video Out *2

SUNE TECHNOLOGY
CarPlay & Android Auto
MODEL : SE-CP

CARPLAY BOX
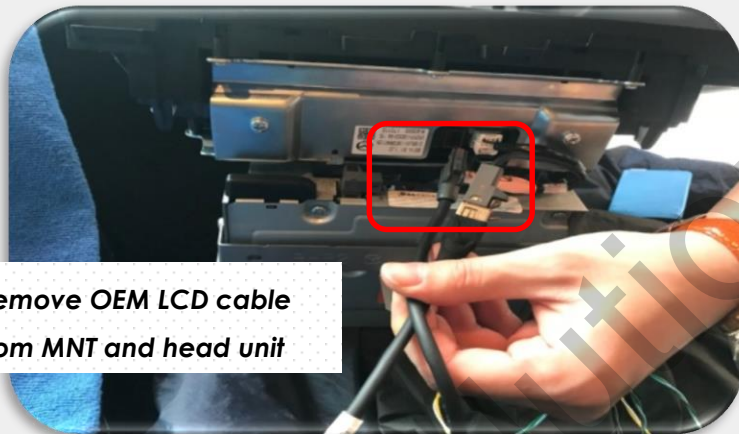
Remove OEM LCD cable from MNT and head unit

Remove OEM LCD cable from MNT and head unit
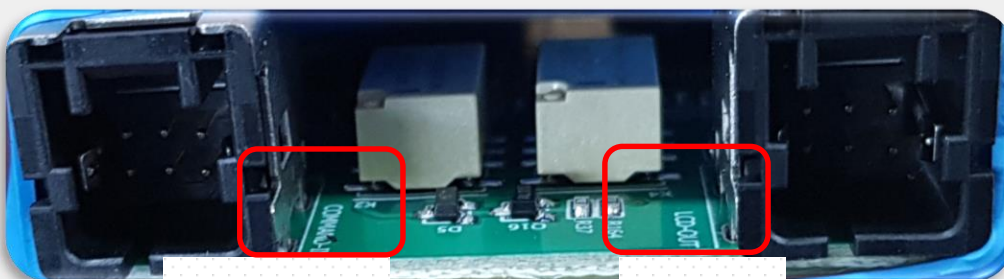
1. Remove OEM LCD cable, connect 2 pcs supplied LVDS cable instead.

2. Connect supplied LVDS cable from MNT to sub board LCD OUT port.

3. Connect another LVDS cable from under the head unit to sub board Command IN port.

*Supplied LVDS cable HLVDSC0063 *2*

Command IN

LCD OUT

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)