# SINOTEC

## STA-3168M3

### INSTRUCTION MANUAL

CAR MP3 PLAYER/USB/SD
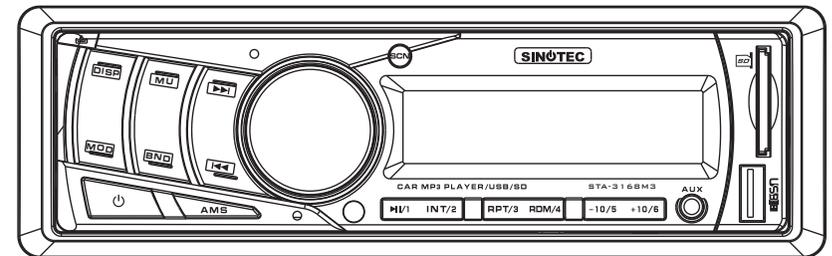
MP3 PLAYER / RECEIVER

USB / SD / MMC / AUX SLOT

**AEM ON**:

Long press SEL key, then short press SEL to select AEM ON/OFF, rotate Volume knob to set ON, AEM function activated.

**AEM OFF:**

Repeat above steps, just in the last step, set OFF to deactivate AEM function.

\* Connect iPhone to Aux in with provided cable (option to be sold separately).

\*\* When AEM ON, any audio source from iPhone can be broadcasted to Headunit.

**Below two brackets are provided for your choice:**

| | |
|---|---|
| 4301SPR | 4303SPR |

## 4. IPH（**iPhone Handfree) (OPTIONAL)**

**Answering Phone Calls:**

Under any mode, connect iPhone to AUX in, when a call is incoming , press PLAY key or Mobile

Phone's answer key to answer it.

Press again to hang up. During answer call,The sound of current mode will be decreased

If the call is finished over 5 sec, the sound will be back to play.

\*\*To have a better phone call experience, long press "MU" to enter "PHONE" mode when you answer the phone.  Then long press "MU" again to go back to previous mode when phone call finishes.

AEM default setting is AEM ON.

●IPC, AEM, IPH functions support iPhone, some smartphone models of Motorola, HTC,

T-Mobile, BlackBerry, LG and Sumsung(which comply with iPhone's socket 4H / 3.5mm).

e.g. Motorola XT615, LG920, Sumsung Galaxy Note....etc.

\*\* Support compatibility subject to change without further notice & not guarantee.

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| | |
|---|---|
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## PRECAUTIONS

Choose the mounting location where the unit will not interfere with the normal driving function of the driver.

Before finally installing the unit, connect the wiring temporarily and make sure it is all connected properly and the unit and the system work properly.

Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.

Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.

Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop. Like an emergency stop.

Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, form the heater, or where it would be subject to dust, dirt or excessive vibration.
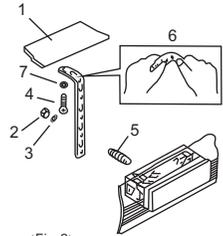
## DIN FRONT-MOUNT (Method A)

Installing the unit

1. Dashboard

2. Holder
After inserting the holder into the dashboard, select the appropriate tab according to the thickness of the dashboard material and bend them inwards to secure the holder in (Fig. 1) place.
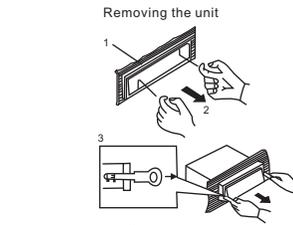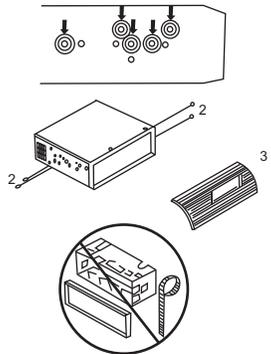
3. Screw

(Fig. 1)
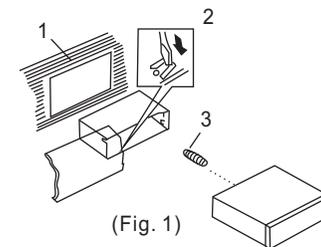
(Fig.2)

1. Dashboard
2. Nut (5mm)
3. Spring Washer
4. Screw (5 x 25mm)
5. Screw
6. Strap
Be sure to use the strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.
7. Plain Washer

Removing the unit

(Fig.3)

1. Frame
2. Insert fingers into the groove in the front of frame and pull out to remove the frame.（When reattaching the frame, point the side with a groove downwards and attach it.）
3. Lever

Insert the levers supplied with the unit into the grooves at both sides of the unit and shown in figure until they click. Pulling the levers makes possible to remove the unit from the dashboard.

Fastening the unit to the factory radio mounting bracket:

1. Select a position where the screw holes of the bracket and the screw holes of the main unit become aligned (are fitted), and tighten the screws at 2 places on each side. Use either truss screws (5 x 5mm) or flush surface screws (4 x 5mm)
2. Screw
3. Dashboard or Console

## DIN REAR-MOUNT (Method B)
Installation using the screw holes on the sides of the unit
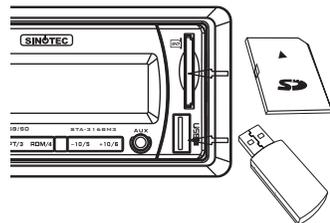
## INPUT THE SD CARD

The SD oblique angle keeps Rightward exposure，put into the SD slot and press it again to eject.

### 1. DOS（Dynamic Open Screen）
The Dynamic Open Screen (Motion effect) when unit power on. Press any key to stop and return to the current mode.

### 2. IPC (iPhone Control Music)  (OPTIONAL)
With this function, the music in iPhone can be played on headunit, and can be controlled by headunit to operate PLAY/PAUSE, PREV, NEXT.
Press Mode button to select Aux model. Connect iPhone to Aux in with provided cable (option to be sold separately).

**Below two brackets are provided for your choice:**

| 4301SPR | 4303SPR |
| --- | --- |

### 3. AEM（Aux Extend voice control Mode）  (OPTIONAL)
**GPS traffic broadcasting**:
Under any mode, connect iPhone to AUX in, activate GPS Navigation function on the phone（The phone must have this Apps）.
Set AEM ON, while GPS Navigation traffic broadcasting, the radio sound of current mode will be decreased,If the Navigation stop broadcasting over 5 sec, the radio sound will be back to play.

## General

| | |
|---|---|
| Power Supply Requirements: | DC 14.4V, Negative Ground |
| Load Impedance: | 4 ohms |
| Maximum Output Power: | 25W x 4（CH） |
| Chassis Dimensions: | 178 x 130x 50mm (W x D x H) |
| Current Drain: | 10A |

## Tone Controls

| | |
|---|---|
| Bass (at 100Hz): | +10dB / -10dB |
| Treble (at 10K): | +10dB / -10dB |

## USB／SD MUSIC Player

| | |
|---|---|
| Signal to Noise Ratio: | More than 60dB |
| Channel Separation: | More than 60dB |
| Frequency Response: | 20Hz - 20KHz |

## FM Radio

| | |
|---|---|
| Frequency Coverage (MHz): | 87.5 - 108MHz |
| IF : | 10.7MHz |
| Sensitivity (S/N-30dB): | 12dBu |
| Stereo Separation: | >30dB |

Remarks：
Specifications subject to change without notice

IGNITION SWITCH(B+) | RED
AUTO ANTENNA | BLUE
FRONT Lch SPEAKER+ | WHITE
FRONT Lch SPEAKER− | WHITE/BLACK
REAR Lch SPEAKER+ | GREEN
REAR Lch SPEAKER− | GREEN/BLACK

YELLOW | MEMORY BACK-UP
BLACK | GROUND (B-)
GREY | FRONT Rch SPEAKER+
GREY/BLACK | FRONT Rch SPEAKER−
VIOLET | REAR Rch SPEAKER+
VIOLET/BLACK | REAR Rch SPEAKER−

Ⓐ --------- ANTENNA
Ⓑ --------- REAR Rch LINE OUT
Ⓒ --------- REAR Lch LINE OUT

## FRONT PANEL LAYOUT



Press ◎ Release Button to Detachable

1. Power Button

2. Volume/Sel Button

3. Mode switch

4. Display Button

5. LCD Display

6. Reset Button

7. Band switch /ID3 select

8. Tune Seek & Track forward Button

9. Tune Seek & Track reverse Button

10. Automatically memory storing

11. Play/pause & Preset Button 1

12. Intro & Preset Button 2

13. Repeat & Preset Button 3

14. Random & Preset Button 4

15. Preset Button 5

16. Preset Button 6

17. Release Button

18. Mute Button

19. SCN Button

20. Remote Control sensor

21. AUX IN JACK

22. USB connecter

23. SD/MMC slot

24. Flashing LED

### USB/SD FLASH MP3 Playing：

#### PLAY / PAUSE
Press button (11) pause function is activated. Music track play time INDICATOR flashes.  Press it again to resum palying, press it more than 1 second is TOP function.

#### INT
Press button (12): During INTRO ON, INT indicator comes on and begins Playing the first 10sec of each song, until the last song is played. It begins playing the entire track from where INT started

#### RPT
Press preset button (13)：Flash play mode : REPEAT ON / OFF is activated. When REPEAT ON, RPT INDICATOR comes on and repeats the current music track.

#### RDM
Press preset button (14)：During RANDOM ON, RDM INDICATOR is turned on and each track of disc is played in ramdom instead of normal order.

### SELECT TRACKS
During USB/SD operation, press SEEK ″|◄◄″ (9) button or SEEK ″►►|″(8) button to move to the previous track or the following track, Track number shows on display. During USB/SD, hold SEEK ″|◄◄″ (9) button or SEEK ″►►|″(8) to fast reverse or fast forward. Music play starts from when you release the button.

Press preset button (15-16)：
- MP3 MODE : 10 TRACK UP / DOWN is activated.
When the total track is 10 or less, KEY is inactivated.

## BAND SELECTION

At tuner mode, press BAND button (7) to select the desired band. The reception band will change in the following order:

FM1 → FM2 → FM3 →

## STATION SELECTION

During radio mode, Press "SEEK ◄◄ " or "SEEK ►► "buttons shortly to automatically search a station, Press "SEEK ◄◄ " or "SEEK ►► " buttons more than 1 second is operated as manual turning mode.

### AUTOMATICALLY MEMORY STORING & PROGRAM SCANNING

- Automatically Memory Storing
Press AMS(MP3) button (10) for several seconds, the radio searches from the current frequency and checks the signal strength until one cycle search is finished.

The 6 strongest stations are stored into the corresponding preset number button.

- Program Scanning
Press AMS(MP3) button (10) briefly to scan preset station. When the AMS mode is carry out, "INT" appear on LCD display, the unit scan each stored station for 5 seconds, you also can press the corresponding number button or AMS button. Your desired station will start playing.

## STATION STORING

Press preset button (11~16)
RADIO MODE.
M1 ~ M6
- PRESET MEMORY is loaded when key is pressed for less than 1 second.
- PRESET MEMORY is saved when key is pressed for longer than 1 sec.

## SCAN

Press scan button (19) to search radio station. When a station signal strength level is more than the level to stop. The radio will playing the station for 5 seconds and the frequency blinking on the LCD at the same time.
Press and hold scan button (19) more than 3 seconds to select the station which you desired. The radio will start play the station.

# GENERAL OPERATIONS

## ON/OFF

Press POWER button (1) to turn on the unit. Press it more than 1 second to turn off.

## SOUND ADJUSTMENT

Turn on (2) can adjust the desired volume quality.
Press SEL button (2) will change in the following order.
Option:

VOL → BAS → TRE → BAL → FAD
(Volume) (Bass) (Treble) (Balance) (Fader)

## VOLUME

Adjust volume level by using VOL/SEL (2) knob. Turn the VOL knob to left to decrease the sound level, turn the VOL knob to right to increase the sound level.
Note: The unit is initially set to volume mode.

## BASS

Press VOL/SEL button(2) one time. Adjust bass level by using VOL/SEL(2) Knob.

## TREBLE

Press VOL/SEL button(2) two times. Adjust treble level by using VOL/SEL(2) Knob
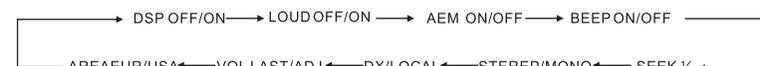
## BALANCE

Press VOL/SEL button(2) three times. Adjust sound balance between left and right speakers by using VOL/SEL(2)Knob .

## FADER (optional)

Press SEL button(2) four times. Adjust sound balance between front and rear speakers by using VOL/SEL(2)Knob.

## SELECT MENU

Press VOL/SEL button for several seconds, selecting menu is activated as cyclical mode of following function for use's selection:

DSP OFF/ON → LOUD OFF/ON → AEM ON/OFF → BEEP ON/OFF

AREA EUR/USA ← VOL LAST/ADJ ← DX/LOCAL ← STEREP/MONO ← SEEK ½

Press VOL/SEL button shortly and turn VOL button to right or left to select different menu mode.

## MUTE OFF/ON

Select "MUTE on " mode to cut down the speakers output, return to "MUTE OFF"
mode to resume the speakers output.

## ✳LOUD ON/OFF MODE

In loud on mode the bass and treble response will be boosted.

## ✳STEREO/MONO

When FM station are weak and are disturbed. Listening can be improve by selecting
MONO.

## ✳LOCAL/DX

"LOCAL" position in areas with strong signals to let radio stop at only strong stations
during manual turning select distant position in areas with weak signals to listen to
all stations.

*Note: ✳On Remote Control*

## AREA SETUP

In Radio mode. Press SEL button for several seconds. LCD will be show from
BEEP ON � AREA USA/EUR. At AREA USA/EUR. You can use VOL +/- to select the
AREA frequency.

## SELECT MODE

By pressing this button(3) to go to different function mode:
- Tuner (radio)
- USB
    to go to this mode USB device must be connected.
- Memory Card
    to go to this mode must be have a Memory Card in.
- AUX in put

## DISPLAY

Press DISP button (4) to operate as the conversion of each display mode as follow:

- Time is displayed for 5sec when DISP key is pressed, and it returns to its
previous display ( Folder, File name...) unless DISP key is pressed again.
3) From the clock mode, when DISP Key is pressed for longer than 1sec,
clock mode switches to clock Adjusting mode and the clock display
begins flashing. At this time clock can be changed by pressing $(+/-)$,
or the ENCODER VOLUME.

## LIQUID CRYSTAL DISPLAY

Exhibit current frequency and activated functions on the display (5).

## RESET

RESET button (6) is placed on the housing and must be activated with either
a ball point pen or thin metal object. (Do not use sharp object to avoid damaging
the unit.) The RESET button (6) is to be activated for the following reasons:
- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.