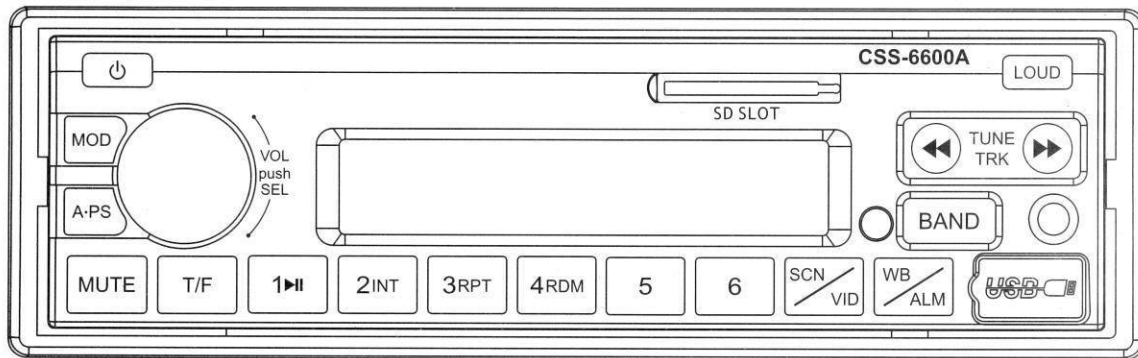


# CSS-6600A

## AM/FM/WB/SD/USB/MP3/WMA

### 4-CHANNEL, Public Address Capability



## Owner's Manual

*Custom Radio Corporation*

# Contents

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Contents .....	1
General Features .....	2
Description of Audio Unit Features .....	3~5
Operation Method .....	6~8
Function of the SEL Button .....	9
Public Address (PA), Setting the Clock & Alarm Programming .....	10
Car Audio Wiring Configuration .....	11
Radio Reception .....	12~15
Specifications & Performance .....	16

*Please take a few moments to read this manual carefully to ensure you understand the operation of the unit before you start using it.*

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# General Features

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This FM/AM/WB/USB/SD/MMC CARD/NAND car audio unit is equipped with the following features.

## **1. Radio unit (Tuner)**

- Electronic station search
- Memory function which you can store 18 FM Stations and 12 AM stations in Memory.
- A.PS (Auto Store) system selects and memorises the stations automatically in order of good reception.

## **2. AUX IN**

- The radio is equipped with a Auxiliary, that allows the user to listen to external sources, such as MP3 player

## **3. USB, SD/MMC card & NAND (512M internal memory)**

- The radio is equipped with a USB input jack, a SD/MMC card input jack and a 512M internal memory.

## **4. Public Address (PA)**

- Two four-pin connectors on the rear of panel accept microphone inputs.

## **5. Others**

- Electronic volume control function. ("SEL" Button - DSP, Bass, Treble, Balance, Fader, VOL)
- High-Power external Amp design (35Wx4 channels)

## RADIO SYSTEM

### (POWER) Button

- Press this button to turn the audio unit ON and OFF.

### BAND Button

- During radio operation, each time this button is momentarily pressed, the radio band is changed. The indications



Will appear on the display panel according to your selection.

### TUNE TRK Button (SEEK)

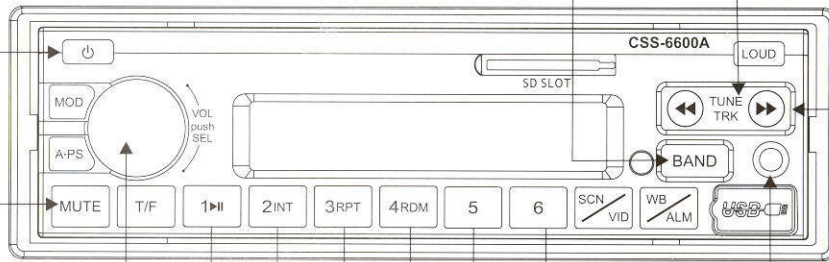
- **AUTO:** Momentarily pressing and releasing either TUNE TRK button will activate the Automatic Seek Tuning function, provided manual tuning mode is not in effect. The radio will seek the next acceptable signal strength station in the + or - direction and the stop and remain at the frequency.

### MUTE BUTTON

- Press this button to mutes output.
- Press again to enables output.

### MANUAL TUNING

- To manually select a desired frequency, press and hold down TUNE button until radio BEEPS and "MANU" briefly appears on display. Now use TUNE up/dn button to select desired station. To exit the manual tuning mode, hold down TUNE button for more than 2 seconds until radio BEEPS.



### "SET" (SELECTOR) Button

- Electronic encoder type button which is used to select and control all functions related to the volume and sound quality of the audio unit.
- When you momentarily press this button, you can change the following functions like shown in the order below:



**[Note]** Once you've selected the function you wish to change, you have 5-seconds to adjust the settings before it automatically switches back to the volume control (Default).

### PRESET (1 to 6) Buttons

- Tune the radio to a desired station then press and hold one of the preset buttons for 2 seconds. The desired station will now be stored in memory.

### AUX IN

- Select AUX IN by pressing MODE button twice momentarily "AUX" will appear on display.

# Description of Audio Unit Features

## RADIO SYSTEM

### MODE Button

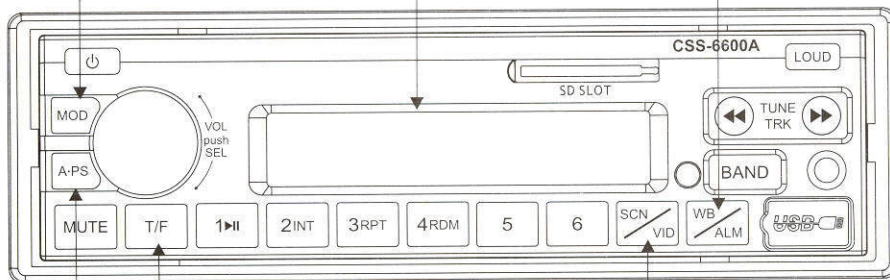
- Press MODE button momentarily to select between Radio, or Aux.

### LIQUID CRYSTAL DISPLAY

- The LCD shows the radio reception information such as the FM, AM, Stereo, Ch No., Reception frequency, Volume, Bass, Treble settings etc...

### WB/ALM (Weather Band/Alarm) Button

- **WB:** Simply press the WB button to change the BAND to weather band, then press the presets buttons to listen to the presets WB stations 1-6 and preset 7, press SCN button.
- **ALM:** Press and hold this button for 2 seconds to change into Alarm mode.



### A.P.S Button (Auto Preset)

- **PRE-SET SCAN:** Press this button momentarily scans the stations preset 1-6 into each AM band and each FM band. The unit will stop at each preset station for approximately 5-seconds before continuing to the next preset station.
- **AUTO-STORE:** press this button for more than 2 seconds and it will automatically preset 6 stations into memory (presets 1 to 6) in order of strongest signal strength.

### T/F (TIME/FREQUENCY) Button

- In any mode, the time display is default indication on LCD. When T/F button is pressed while time is displayed, the current frequency will appear for approximately 8 seconds and then revert to time indication.
- **Setting or Changing the time**  
Press and hold the T/F button until time (HOUR) begins to flash. Rotate volume control knob clockwise (CW) to increment hour indication, rotate volume control knob counter-clockwise (CCW) to decrement the hour indication. Now press and hold T/F button again until time (MINUTES) begins to flash. Rotate volume control knob CW to increment the minute indication, rotate volume control knob CCW to decrement the minute indication. Once time (Hour or Minute) has been adjusted, wait 5 seconds until time stops flashing, time is now set.

### SCAN/VID Button

- When you press this button the frequency simply automatically stop at the next broadcast for reception for 3 seconds and then continues to scan.  
Note: Pressing SCAN button during scanning, radio will stop at current broadcast.
- Press and hold this button for more than 2 seconds to switch to VIDEO mode.

## ◆ USB&SD Card SYSTEM

### MUTE Button

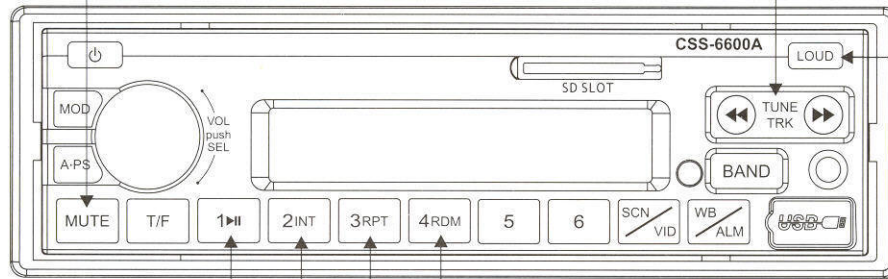
- Press this button to "MUTE" the audio sound.
- Press again to deactivate the "MUTE" feature.

### TUNE / TRK BUTTON

- Press the "▶▶" button momentarily to select Tracks on the disc in a forward direction. If you press and hold the "▶▶" button, it will quickly skip through the Track / disc in the forward direction until the button is released.
- Press the "◀◀" button momentarily to select Tracks on the disc in a reverse direction. If you press and hold the "◀◀" button, it will quickly skip through the Track / disc in the reverse direction until the button is released.

### LOUD Button

- In order to emphasize the bass and treble at low volume, press the LOUD button. To cancel loudness press the button again.



### PLAY / PAUSE Button

- Press this button to Pause the CD.
- Press the button again to play the CD.

### INT Button (INTRO SCAN)

- Press this button to hear the first 10 seconds of each track recorded on the CD. If you find a song you like, simply press the button again to cancel the intro scan feature and to continue playing the whole track.

### RPT (REPEAT) Button

- While playing a desired track, press the RPT button to play the track repeatedly.
- Press RPT again to cancel the Repeat feature.

### RDM (RANDOM) Button

- While a CD playing, press the RDM button to play all tracks in a random sequence.
- Press RDM again to cancel the feature.

# Operation Method

## RADIO SYSTEM

### 1. Listening to the radio

#### a. PWR button



Press the PWR button to turn the unit on; press it again to turn off the unit.

**Note:** Whenever the unit is powered for the first time, it will default to (tuner mode). After initial power, it will memorize all setting from previous play mode. When Ignition is turned off while radio is operating normally, the unit will automatically power on when ignition is turned on again and have memorized all settings from previous play mode.

#### b. MODE button



Press the MODE button to select mode between Radio and Aux In.

#### c. BAND button



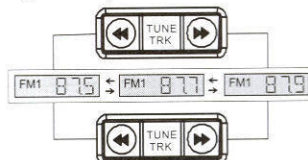
Use the BAND button to select your desired band. (FM or AM)

#### d. How to select / tune a radio station (seek)

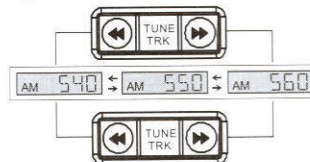
- Manual tuning



- Listening to FM (moves in 200KHz steps)



- Listening to AM (moves in 10KHz steps)



### 2. Tuning and selecting radio stations



#### - Auto station tuning (SEEK) AM and FM

When you press the SEEK buttons momentarily (one touch), the frequency will automatically change to the next strong signal station.

#### - MANUAL station tuning (SEEK) AM and FM

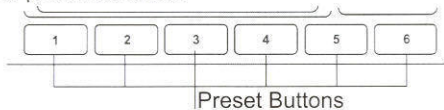
To manually tune a desired radio station, press and hold either "◀" or "▶" buttons until radio BEEPS and icon "MANU" appears on LCD briefly and then release. Now press the "◀" or "▶" button momentarily to move the frequency "UP" or "DOWN" in steps. To return to Auto Seek tuning mode, press and hold "◀" or "▶" buttons until unit beeps. The radio is now in Auto Seek tuning mode.

## - PRESET station tuning

To Select a station which is stored in memory, simply momentarily press anyone of the PRESET Buttons 1 to 6. The Station stored in the PRESET button, will automatically be selected.  
(The LCD show the CH number and frequency.)

### 3. Presets

- To store your favorite radio stations into memory, please follow the steps below.
- a. Select a radio station by using the tune buttons.
- b. Once selected, simply hold one of the PRESET buttons down for more than 2 seconds until radio beeps. The station is now stored on the preset selected.



**Note:** 18 FM stations and 12 AM stations can be stored in memory by using the 6 preset buttons.(each band can store 6 stations.)

### 4. VERIFYING STATIONS HAVE BEEN STORED IN MEMORY

Once you have completed storing your desired radio stations, simply press each PRESET momentarily to check if the correct stations have been memorized.

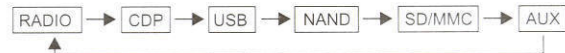
### 5. Weather Band (WB) button

- This audio unit provides access to the weather band for information purposes. When the WB button is pressed, "WB" appears on display and automatically searches and locks in the strongest signal station.
- The default mode of the WB function is seek tuning. In this mode, pressing TUNE buttons, the unit will search weather band for next strongest signal station.
- Pressing and holding down TUNE buttons, to set the WB function to manual tuning, radio beeps and "MANU" appears on the display briefly. To return to WB SEEK mode press and hold down TUNE buttons until radio beeps.
- All 7 WB stations can be accessed by momentarily pressing one of 7 preset buttons.  
Note : In WB mode, SCAN button is preset 7 (7th WB station).
- When the WB button is pressed again, radio operation returns to the previous play mode.

## ◆ USB, NAND & SD/MMC SYSTEM

### 1. MODE button

Press MODE button repeatedly will display the following:



### 2. Listen to the USB and NAND

2-1. Simply press the Mode button repeatedly to select USB or NAND mode. After selected, it will automatically play the first track.

# Operation method

Then use the preset buttons to choose the Play/Pause, Intro, Repeat, and Random function.

2-2. Simply press A.P.S to the display track number. Turn VOL knob right or left to select the tracks, at your desired track, press SEL or BAND button to confirm the selection. Press and hold the A.P.S button to display the folder name. Turn VOL knob right or left to select the folder, at your desired folder, press SEL or BAND button to confirm the selection.

2-3. During a track is playing, shortly press "▶▶" or "◀◀" button to select the next or previous track. Press and hold "▶▶" or "◀◀" to fast-forward or fast-rewind the track. Press the preset button 5 or 6 to select the previous or next folder.

### 3. Record USB to NAND (512M internal memory)

3-1. Press and hold SEL button during USB playing until "REC ONE" displays on the LCD; use VOL knob to select between "REC ONE" and "REC ALL", then press SEL or BAND button to confirm recording.

- Record one: If REC ONE were selected, the file would be recorded into Audio Folder. Now "REC xx" displays on LCD. ("xx" shows recording percent.)
- Record all: If REC ALL were selected, the files would be recorded into USB folder.

Note:

- Recording speed and time require: 48MBIT=600KBYTE
  - Compressibility: file copy 1:1.
  - During recording, Radio and AUX mode can be select by pressing mode button, but CDP, USB, NAND, mode can not be selected.
- And the track can not be heard while it is being recorded.

### 4. Cancel the recording process:

The are two methods to cancel the recording process.

- If no button pressed in 5 seconds when REC ONE or REC ALL displays, it will automatically revert to previous mode.
- Pull USB out or turn ACC off can also cancel recording process.

### 5. Delete files in NAND (512M internal memory)

In NAND mode, press and hold SEL button until "DEL ONE" displays on the LCD; use VOL knob to select between "DEL ONE" or "DEL ALL", then press SEL or BAND to confirm the selection.

## ◆ AUX IN SYSTEM

Use MODE button to select AUX IN.



- Attain an audio cable with 1/8" (3.5mm) male plug at each end. First connect the cable to the radio, then connect the other end to an external audio device.
- Now press MODE button repeatedly until "AUX" is displayed on the LCD panel.

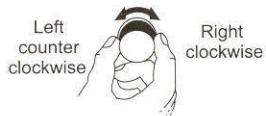
Important: Before selecting AUX mode, verify the cable connected to both audio device & radio. Since audio devices vary in output amplitude levels. It is recommended that the external audio device not be set at max output volume. Very high output levels from audio devices may cause audio distortion to the output of the radio.

## 1. FUNCTIONS OF "SEL" BUTTON

The Selector button is used to control the following functions:

- DSP
- Bass (Press once)
- Treble (Press twice)
- Balance (Press three times)
- Fader (Press four times)
- Volume
- BEEP on, BEEP 2nd (Press and Hold)
- Volume memory limit (Press and Hold, then Press Once)

### a. Controlling the Volume



◆ Once the audio unit is turned on, you can adjust the volume without having to press the "SEL" button.

Right - Increases the Volume  
Left - Decreases the Volume

" 0-30 "

To increase the volume level, rotate the volume control clockwise (CW). "VOL" will appear and the volume level will be shown on the display panel from a minimum of VOL 0 to a maximum of VOL 30. To decrease the volume level, rotate the volume control counter clockwise (CCW). LCD will automatically return to the normal indication 5 seconds after the last volume adjustment.

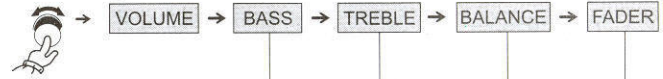
### b. Adjusting Initial Volume

Press and hold the "SEL" button until BEEP ON or BEEP 2ND appears on the LCD, release and press the "SEL" button again and I-VOL 10 will appear on the LCD. Now using the "SEL" knob, adjust the Initial Volume to the desired setting. Once completed, wait 5 seconds for the unit to exit this mode.

[Note] If the volume level is lower than the initial Volume setting when audio unit is turned off. Once the audio unit is switched back on again, the audio unit will remember the lower level and resume volume at that level.

### c. Controlling the Bass, Treble, Balance and Fader

These adjustments are controlled by pressing the "SEL" button. Note: If no adjustments have been made within 5 seconds, it will automatically switch back to the Volume Control Mode.



#### 2. Bass control

Turn left to decrease the bass.  
Turn right to increase the bass.

#### 3. Treble control

Turn left to decrease the treble.  
Turn right to increase the treble.

#### 4. Balance control

Turn left to decrease the right speaker volume.  
Turn right to decrease the left speaker volume.

#### 5. Fader control

Turn left to decrease the front speaker volume.  
Turn right to decrease the rear speaker volume.

### d. Controlling the Beep ON, Beep 2ND

BEEP ON: Every time you press a button, you will hear a beep sound.

BEEP 2ND: You will only hear beep sound if the button is held down for more than 2 seconds.

To change this feature, simply hold the "SEL" Button down until "BEEP ON" or "BEEP 2ND" appears on the LCD. Within 5 seconds, turn the "SEL" knob left or right to change the setting. Now wait 5 seconds for the unit to exit this mode.

# Public Address (PA), Setting the Clock & Alarm Programming

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## - PUBLIC ADDRESS (PA)

- The Radio is equipped with two microphone input for public address purposes.

## - MICROPHONE ONE (MIC 1)

When the microphone press-to-talk switch is activated on microphone one(MIC 1), the current program audio output is interrupted, "MIC 1" appears on the display and the microphone voice input can be heard through the speakers. When the microphone switch is released, the previous program audio output is restored and "MIC 1" disappears from display. Output level heard through the speakers, is controlled with MIC 1 volume control.

Note : Mic 1 input uses CSS/CRC-103M series microphones.

## - MICROPHONE TWO (MIC 2)

When the microphone press-to-talk switch is activated on microphone two(MIC 2), the current program audio output is interrupted, "MIC 2" appears on the display and the microphone voice input can be heard through the speakers. When the microphone switch is released, the previous program audio output is restored and "MIC 2" disappears from display. Output level heard through the speakers, is controlled with the Radio volume control.

Note : MIC 2 input uses CSS/CRC-105 series and gooseneck type microphone.

MIC 2 volume levels will be memorized by the unit from previous set level during normal operation and when radio is turned off.

## - SETTING THE CLOCK

1. Turn vehicle ignition on, then power up the radio.
2. Press and hold the T/F button until the time (hour) display begins to flash.
3. With the hour display flashing, rotate Volume control counterclockwise to decrement hour indication, rotate Volume control clockwise to increment the hour indication.
4. Press and hold the T/F button once again until the minutes display begins to flash. Adjust the minutes display in the same manner described for hours indication in step 3.
5. Five seconds after the last hour or minute adjustment is made, the time will be set into the unit and the time indication remains steady.

## - ALARM PROGRAMMING

When the radio is off and the ignition switch is on, the alarm feature of the radio can be programmed as follows:

1. Press and hold the ALM button for about 2-3 seconds, ALARM ON or OFF appears on the display.
2. If the alarm is off, rotate the volume control clockwise to turn on the alarm (ALARM ON).
3. Momentarily press the ALM button again; the hours digit flashes; rotate the volume control to set the hours forward (clockwise) or backward (counter clockwise).
4. Momentarily press the ALM button again, the minutes digit flashes, rotate the volume control to set the minutes forward(CW) or backward (CCW) as desired.
5. Press the ALM button again, and ALM SET will appear on the display.

## 1. Connection diagram (36P)

Please refer below for vehicle's audio connector wiring configuration...



MIC #1		MIC #2		VIDEO TRIGGER	
NO	DESCRIPTION	NO	DESCRIPTION	NO	DESCRIPTION
1	SIGNAL	1	SHIELD	1	TRIGGER
2	GROUND	2	SIGNAL	2	GND
3	PWR. (+8VDC)	3	GROUND		
4	SWITCH	4	SWITCH		

No	NOTE	No	NOTE
1		9	REAR RIGHT SPEAKER +
2		10	REAR RIGHT SPEAKER -
3		11	FRONT RIGHT SPEAKER +
4	IGNITION (+12VDC)	12	FRONT RIGHT SPEAKER -
5	AUTO ANTENNA	13	FRONT LEFT SPEAKER +
6		14	FRONT LEFT SPEAKER -
7	MEMORY (BATTERY)	15	REAR LEFT SPEAKER +
8	GROUND	16	REAR LEFT SPEAKER -
21		25	AUX GND
23	L AUX IN	26	RAUX IN
24	AUX SHEILD GND	27	

# Specifications & Performance

TUNER UNIT		
FM	Reception Frequency	87.5 ~ 107.9MHz
	Effective Sensitivity (MONO) (30dB S/N)	Below 10dBu
	S/N Ratio	Above 52dB
	Stereo Separation (1KHz)	Above 30dB
AM	Reception Frequency	530 ~ 1710KHz
	Frequency Characteristics (-30dB)	30Hz ~ 10KHz
	S/N Ratio	Above 45dB
WB	Reception Frequency	162.400 MHz 162.425 MHz 162.450 MHz 162.475 MHz 162.500 MHz 162.525 MHz 162.550 MHz

AUDIO UNIT	
Maximum Output Power	35W x4CH
Frequency Characteristics (-30dB)	30Hz ~ 10KHz
Bass Control	10dB ± 3dB
Treble Control	10dB ± 3dB

POWER UNIT AND SPECIFICATIONS	
Power Supply Voltage	13.8V (10.8 ~ 15.8V) available
Speaker Impedance	4 ohms
Chassis Dimensions (WxHxD)	178 x 50 x 151.7 mm 7.00 x 1.97 x 5.97"
Panel Dimensions (WxHxD)	180 x 50 x 18.5 mm 7.09 x 1.97 x 0.73"
Commercial Fuse Spec.	250V 10A
Weight	Below 2kgs

**[Caution]** Any changes modifications to this audio unit will void its Warranty.

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