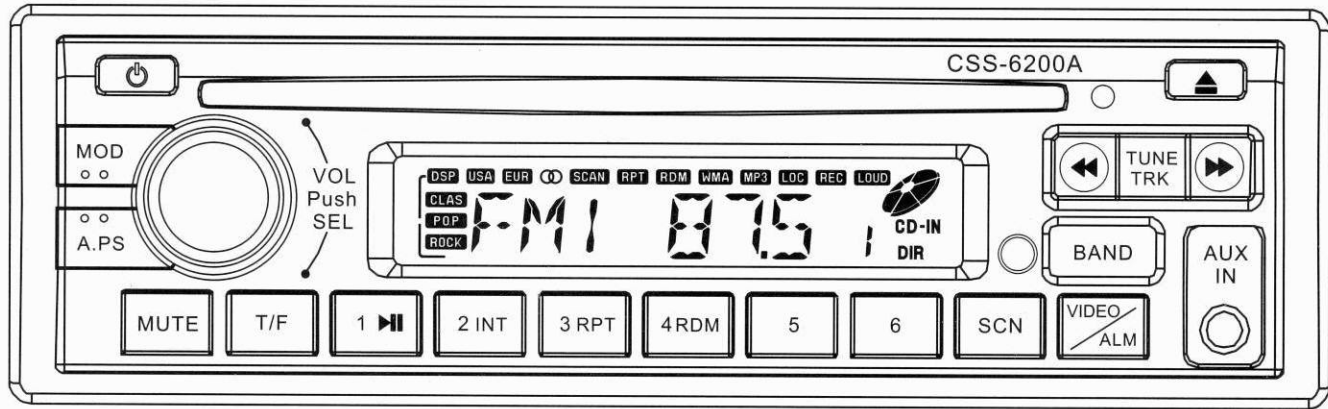


CSS-6200A

AM/FM/CD/VIDEO, 4-CANNEL,
Public Address Capability



Owner's Manual

Custom Radio Corporation

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

This FM/AM/CD 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.P.S (Auto Preset-Store) system selects and memorizes the stations automatically in order of good reception.

2. COMPACT DISC PLAYER UNIT

- 5-1/4 (12cm) Discs available
- Power Loading System
 - ① When disc is inserted, it starts playing automatically.
 - ② Even if the power is off, the unit is powered on automatically when the disc is inserted, and it will start playing automatically.
- Repeat Function
 - ① You can listen to the same track repeatedly.
 - ② The disc is re-played automatically after listening to all the tracks on the disc.
- CD Intro Button
 - Press the INT button to automatically play the first 10 seconds of each track which is recorded on the disc.

3. AUX IN

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

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)

Description of Audio Unit Features

◇ 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 according to your selection.

TUNE (SEEK) Button

- **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 acceptable signal strength station in the + or - direction and then stops and remains at that frequency.

MANUAL TUNING

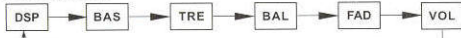
- To manually select a desired frequency, press and hold down TUNE button until radio BEEPS and "MANU" briefly appears on display. Now use TUNE up/dn button to select desired station. To exit the manual tuning mode, hold down TUNE button for more than 2 seconds until radio BEEPS.

MUTE BUTTON

- Press this button to mute output.
- Press again enable output.

"SET" Button (SELECTOR)

- 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 shown in the order below:



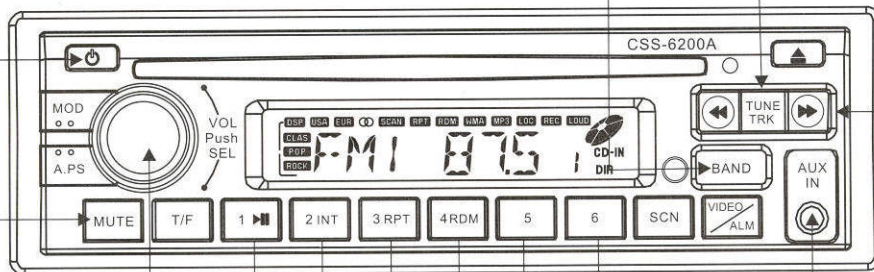
[Note] Once you've selected the function you wish to change, you have 5-seconds to adjust the settings before it automatically switches back to the volume control (Default).

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 repeatedly until "AUX In" appear on display.



◆ RADIO SYSTEM

MODE Button

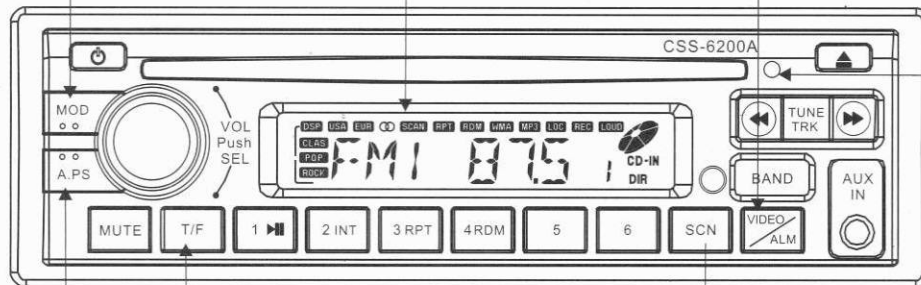
- Press MODE button momentarily to select between Radio and CD or AUX.

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...

ALM (ALARM) Button

- Press and hold this button for more 2 seconds to change into Alarm mode.
- Simply press it to change into Video function, press it again to cancel the Video function.



Flashing RED LED

- Once the Accessories (IGN) is turned off, this LED will begin to flash. If a CD in the unit, this LED will indicate green light.

A.P.S Button (Auto Preset)

- **AUTO PRE-SET SCAN:** Pressing this button momentarily scans the stations preset 1-6 of the current radio band. The unit will stop at each preset station for approximately 5-seconds before continuing to the next preset station, until all 6 presets have been scanned.
- **AUTO PRE-SET 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) Button

- When you press this button the frequency 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.

Description of Audio Unit Features

COMPACT DISC SYSTEM

MUTE Button

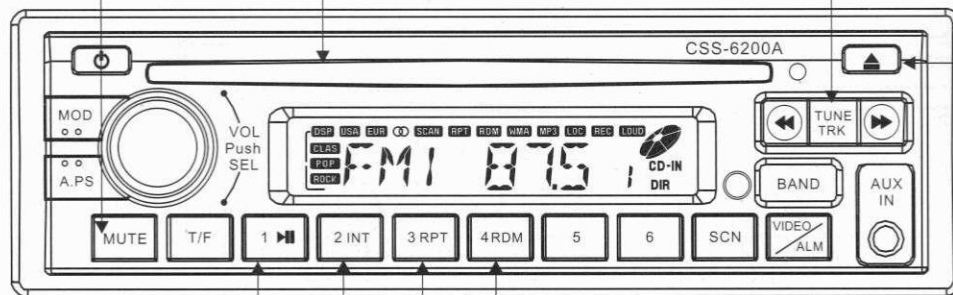
- Press this button to "MUTE" the audio output.
- Press again to deactivate the "MUTE" feature.

CD DISC SLOT

- Insert or remove CD Disc.

TUNE / TRK Button

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



EJECT Button

- Press this button to eject the CD.

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 decide you like the song, press the button again and it will deactivate the intro scan mode and it will 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.

RADIO SYSTEM

1. Listening to the radio

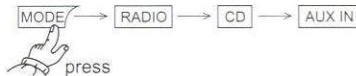
a. PWR button



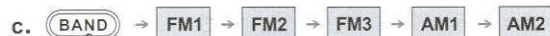
Press the PWR button to turn the unit on; press it again to turn off the unit.

Note: Whenever the unit is powered for the first time, it will default to tuner mode. After initial power, it will memorize all settings 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.



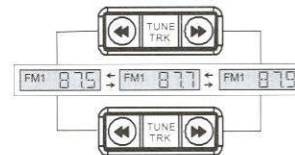
Use the BAND button to select your desired band. (FM or AM)

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

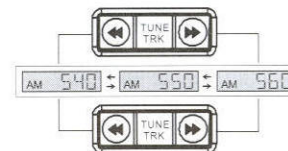
- Manual tuning



- 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.

Operation Method

- PRESET station tuning

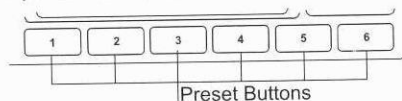
To Select a station which is stored in memory, simply press anyone of the PRESET Buttons 1 to 6. The Station stored in the PRESET pressed, will automatically be selected.

(The LCD shows the CH number and frequency.)

3. Presets

- To store your favorite radio stations into memory, please follow the steps below.

- Select a radio station by using the SEEK Buttons.
- 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 PRESET momentarily to check if the correct stations have been memorized.

COMPACT DISC SYSTEM

1. Listening to your CD Disc

Insert a CD into the disc slot with the label side facing up. Once the CD has been inserted, it will automatically start playing Track 1. If there is a CD already in the unit, simply press the MODE button to select the CD Function.

a. Track select (UP / DOWN)

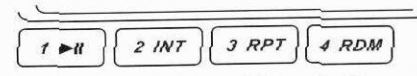
Each time you press the Track UP / DOWN button, it moves in the forward or reverse direction by one track.



Press "◀" Button one time



Press "▶" Button one time



b. PLAY / PAUSE



While a CD is playing, press this button to PAUSE the CD. Press again to Resume Play.

c. INT. (Intro) 

Press this button to play the first 10 seconds of each Track recorded on the Disc.

To stop this feature, simply press the button again.

d. RPT. (Repeat) 

Press this button to repeat the Track that is currently playing.

Press again to cancel the Repeat feature.

e. RDM. (Random) 

Press this button to randomly play tracks on the disc

Press again to cancel the Random feature.

f. EJECT 

Press this button to EJECT your CD disc.

AUX IN SYSTEM

Use MODE button to select AUX IN.



- Obtain 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.

VIDEO SYSTEM

If there is a Video system connected to the CSS6200A, simply press the VIDEO button to select Video mode. Simply press this button again to switch into previous mode.

Note: In Video mode, most of the buttons have no function except PWR, MUTE, and T/F buttons. If you want to change to other mode, firstly press VIDEO button again to cancel Video function, then use mode button to switch.

Functions of the "SEL" Button

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 units is turned on, you can adjust the volume without having to press the "SEL" button.

Right - Increases the Volume "0-30"
Left - Decreases the Volume

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

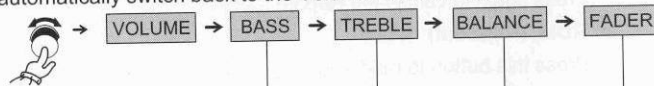
Press and hold the "SEL" button until BEEP ON or BEEP 2ND appears on the LCD, release and press the "SEL" button again and I-VOL 10 will appear on the LCD. Now using the "SEL" knob, adjust the Initial Volume to the desired setting. Once completed, wait 5 seconds for the unit to exit this mode.

[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

- 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.

Tips for Handling the Discs & CD Error Messages

Error Code	Reason
Err	1> Loading is not completed after over 20 secs during the loading operation (* twice trial)
	2> Unloading is not completed after over 35 secs during the unloading operation (* Four times trial)
Err	1> Disc has been inserted upside down. (remove and re-insert the correct way)
	2> Disc is dirty or defective and be can not be read. (Clean DISC and try again.) / (Try another known working Disc.)
Err	1> Pick up cann't move to the most inner circle after 10 secs. (Poor Quality CD-R)

[Note] Some CD-R' s may not play and may cause an ERROR CODE to appear.
 If a CD becomes stuck inside your audio unit, press BAND and MODE buttons simultaneously for about 2 seconds (reset function) or try the EJECT button again.
 If a poor quality CD-R' s become stuck inside your audio unit, this will not be covered by Warranty. Contact Your dealership to have the Disc removed.

1. Use only CD's which are marked with the Compact Disc Digital Audio logo as shown.



2. Take care not to cause any damage to the disc while handling. Handle the disc like shown in the diagram below. This may help prevent the disc from being damaged.



3. Do not attach any labels to the top of your Discs. This may cause the Disc to get jammed in your CD player and it's not covered by warranty.



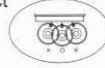
4. Keep the playing surface clean from dust and fingerprints. You can wipe them with a soft cloth before playing. (The wiping direction should be from the center to the outside of the CD as shown).



5. Place your CD's in their protective cover when not being used.



6. Min discs 3" (8cm) may sometimes eject immediately upon inserting if they are inserted unevenly. In this case insert the disc in the central part again.



1. Connection diagrams

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

MIC #1



NO	DESCRIPTION
1	SIGNAL
2	GROUND
3	PWR (+8VDC)
4	SWITCH

MIC #2

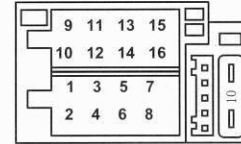


NO	DESCRIPTION
1	SHIELD
2	SIGNAL
3	GROUND
4	SWITCH

VIDEO



NO	DESCRIPTION
1	VIDEO TRIGGER
2	N/A



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 -

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

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

CASSETTE PLAYER UNIT	
Method	Optical
Number of Channels	4 Channels (Stereo)
Dynamic Range	Above 90 dB
S/N Ratio	Above 50 dB
Distortion factor	Below 0.3% (1KHz)
Channel Separation	Above 50 dB
WOW & Flutter	Below measured limit value

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.

Custom Radio Corp
4012 Merchant Rd.
Fort Wayne, IN
Tel : 260-489-2062
www.customradio.net