

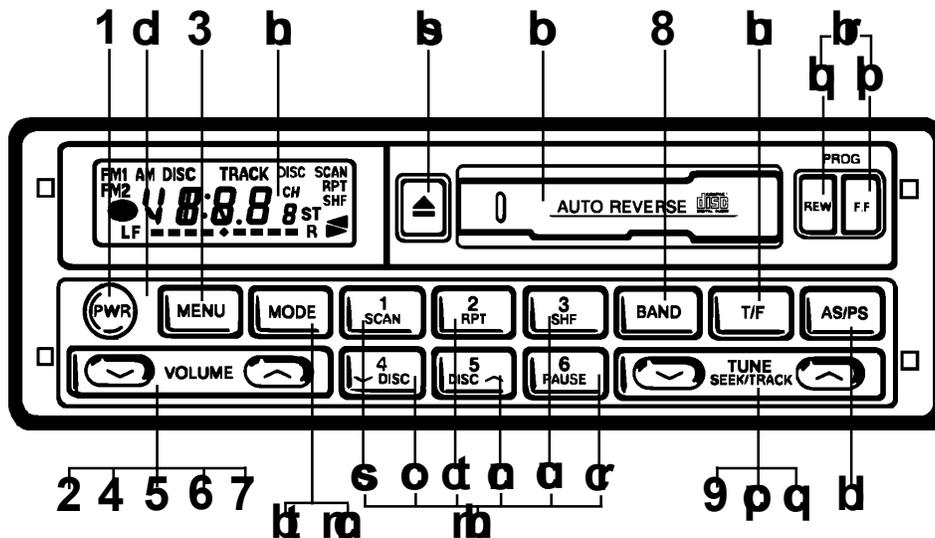
# OWNER ' S MANUAL

***ELECTRONICALLY-TUNED  
AM/FM/MPX RADIO WITH  
AUTO-REVERSE CASSETTE PLAYER,  
CD CHANGER CONTROLS  
AND QUARTZ CLOCK***

Model **FD-250**

***SPS*** ***SPECIAL  
PERFORMANCE  
SERIES***

## OPERATING INSTRUCTIONS



RADIO AND CASSETTE CONTROLS

### 1 ON-OFF POWER BUTTON

Press this button to turn the unit on or off.

### 2 VOLUME/LEVEL CONTROL

To increase the volume level, press the  $\wedge$  side of the control. The volume will increase and the level will be shown by the bars on the display panel. To increase the volume quickly, keep the button pressed. To decrease the volume level, press the  $\vee$  side of the control. Keep the button pressed to decrease the volume quickly. This control is also used in conjunction with the Menu button 3 to adjust the bass, treble, balance and fader levels as described in 4, 5, 6, and 7.

### 3 MENU BUTTON

#### VOLUME LEVEL MEMORY

This button is used to select the audio function ( bass, treble, balance, or fade) to be adjusted using the Level control 2.

Pressing the Menu button once will select the audio functions in sequence of bass (BAS on display), treble (TRE), balance (BAL), and fader (FAd). The display will automatically return to the normal indication 5 seconds after the last adjustment is made or when another function is activated.

This button is also used to set the memory for the volume level which will be recalled when the unit is turned on. To set the volume memory, turn the unit on and adjust the volume using the Volume/Level Control 2 to the level which you wish to be recalled when the unit is turned on. Then, press the Menu button and hold it for approximately 2 seconds. The volume level bars on the display panel will flash twice and the volume is now set in the memory. If the unit is turned off with the volume higher than the memory setting, the unit will return to the memory setting when tuned back on. If, however, the unit is turned off with the volume lower than the memory setting, the unit will return to the lower setting when turned back on.

## **4 BASS CONTROL**

To adjust the bass level, first select the Bass mode by pressing the Menu button **3** once so the BAS indication appears on the display panel. Within 5 seconds of choosing the Bass mode, press the  $\wedge$  or  $\vee$  side of the Level control **2** to adjust the bass response as desired. The level will be shown by the bars on the display panel from a minimum of ■■■■ ■■■■ to a maximum of ■■■■ ■■■■ (the diamond in the center of the display represents flat response). The display will automatically return to the normal indication 5 seconds after the last adjustment or when another function is activated.

## **5 TREBLE CONTROL**

To adjust the treble level, first select the Treble mode by pressing the Select button **3** twice so the TRE indication appears on the display panel. Within 5 seconds of choosing the Treble mode, press the  $\wedge$  or  $\vee$  side of the Level control **2** to adjust the treble response as desired. The treble level will be shown by the bars on the display panel from a minimum of ■■■■ ■■■■ to a maximum of ■■■■ ■■■■ (the diamond in the center of the display represents flat response). The display will automatically return to the normal indication 5 seconds after the last adjustment or when another function is activated.

## **6 LEFT/RIGHT BALANCE CONTROL**

To adjust the left-right speaker balance, first select the Balance mode by pressing the Select button **3** three times so the BAL indication appears on the display panel. Within 5 seconds of choosing the Balance mode, press the  $\vee$  side of the Level control **2** to adjust the stereo balance to the left channel speakers or the  $\wedge$  side of the control to adjust it to the right channel speakers. The balance position will be shown by the bars on the display panel from L ■■■■ ■■■■ R (full left) to L ■■■■ ■■■■ R (full right). When the volume level between the left and right speakers is equal, L ■■■■ ■■■■ R will be shown on the display panel. The display will automatically return to the normal indication 5 seconds after the last adjustment or when another function is activated.

## **7 FRONT/REAR FADER CONTROL**

To adjust the front-rear speaker balance, first select the Fader mode by pressing the Select button **3** four times so the FAd indication appears on the display panel. Within 5 seconds of choosing the Fader mode, press the  $\wedge$  or  $\vee$  side of the Level control **2** to adjust the front-rear speaker levels as desired. The fader position will be shown by the bars on the display panel from F ■■■■ ■■■■ R (full front) to F ■■■■ ■■■■ R (full rear). When the volume level between the front & rear speakers is equal, F ■■■■ ■■■■ R will be shown on the display panel. The display will automatically return to the normal indication 5 seconds after the last adjustment or when another function is activated.

## **8 AM/FM BAND SELECTOR**

Each time this button is pressed, the radio band is changed. The indication AM, FM1, or FM2 will appear on the display panel according to your selection.

## **9 MANUAL UP/DOWN TUNING ( $\vee$ TUNE $\wedge$ ) AUTOMATIC SEEK TUNING**

To manually select a radio station, momentarily press the Up Tuning ( $\wedge$ ) side of the button to advance the unit one digit higher or the Down Tuning ( $\vee$ ) side of the button to tune downward. Continue to press either side of the button to tune the radio rapidly in the selected direction.

Pressing either side of the button for longer than 0.5 seconds and then releasing will activate the Automatic Seek Tuning function in the selected direction. The radio will seek the next available station and stop at that frequency. The Seek function can be stopped by pressing the button again or activating any other tuning function.

## **bl** AUTO-STORE SYSTEM (AS) PRE-SET SCAN TUNING (PS)

Press this button momentarily to scan the 6 stations pre-set into the memories of the radio band in use. The unit will stop at each pre-set station for 5 seconds before continuing to the next pre-set station (the pre-set number on the display panel will flash during this operation). Press the button again momentarily to stop the Pre-Set Scan operation and remain on the selected frequency.

Pressing the button for longer than 2 seconds will activate the Auto-Store System (AS) which will automatically scan and enter up to 6 stations into the 6 pre-set memories on the band in use. If you have already set the pre-set memories to your favorite stations, activating the Auto-Store function will erase those stations and enter the new ones. This feature is most useful when travelling in a new area where you are not familiar with the local stations.

## **bm** STATION PRE-SET MEMORIES

To set any of the 6 pre-set memories in each band, use the following procedure:

1. Turn the radio on and select the desired band.
2. Select the first station to be pre-set using the Manual Up/Down or Automatic Seek Tuning Controls **9**.
3. Press the pre-set button to be set and continue to hold it in. The volume will be momentarily muted and the pre-set number will appear on the display panel indicating that the station is now set into that memory position and can be recalled at any time by pressing that pre-set button.
4. Repeat the above procedure to enter stations in the remaining 5 pre-set memories on that band and the 6 memories on each of the other 2 bands of the unit.

## **bn** LIQUID CRYSTAL DISPLAY PANEL

The Liquid Crystal Display (LCD) panel displays the frequency, time, and activated functions.

**NOTE:** It is characteristic of LCD panels that, if subjected to cold temperatures for an extended period of time, they may take longer to illuminate than under normal conditions and the visibility of the numbers may slightly decrease. The LCD read-out will return to normal when the temperature increases to a normal range.

## **bo** CASSETTE DOOR

Hold the cassette with the exposed tape edge to the right and insert it into the cassette door. Depress fully until the cassette is engaged and begins playing.

When the cassette reaches the end of the side of the tape being played, the unit will automatically change direction as shown by the arrow indication on the display panel and play of the other side of the cassette will begin.

**NOTE:** Observe cassette cautions in the Care and Maintenance section of this manual.

## **bp** FAST-FORWARD BUTTON (FF)

Pushing the Fast-Forward button will cause the tape to move rapidly in the forward direction of play. To stop Fast-Forward movement, lightly push the Rewind button **bq** until the mechanism disengages and normal play resumes.

### **bq** REWIND BUTTON (REW)

Pushing the Rewind button will cause the tape to move rapidly in the reverse direction of play. To stop Rewind movement, lightly push the Fast-Forward button **bp** until the mechanism disengages and normal play resumes.

### **br** PROGRAM SELECTOR

To manually reverse tape direction and play the other side (program) of the cassette, lightly push both the Fast-Forward **bp** and Rewind **bq** buttons at the same time.

### **bs** EJECT BUTTON

Tape playback is stopped and the cassette is ejected by pushing this button. Radio or CD changer operation will automatically resume when the cassette is ejected, depending on which mode was in operation prior to cassette play.

### **bt** MODE SELECTOR

This button is used to select the audio source in play. During tape play, it can be used to change to radio play without ejecting the cassette. Similarly, it can then be used to go back to tape operation from radio play.

### **bu** TIME/FREQUENCY SELECTOR (T/F)

During radio operation, press this button to call the time display on the incorporated quartz clock. Pressing the button again or activating any tuning function will return to frequency display.

During CD changer operation, press this button to call the time display or return to disc and track indications.

### **cl** RE-SET BUTTON

A re-set button is located on the front panel which must be activated by a pen tip or other thin object as it is recessed to prevent accidental engagement. The re-set circuitry is provided to protect the microprocessor circuitry and should only be activated under the following circumstances as it will erase the time and station pre-set memories.

1. Upon initial installation after all wiring is completed.
2. If there is a malfunction of any of the switches on the unit, pressing the re-set button may clear the system and return to normal operation.

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## SETTING THE CLOCK

1. Switch the vehicle ignition and the radio on.
2. If the radio frequency is shown on the display panel, press the Time/Frequency Selector (T/F) **bu** momentarily so that the time display is shown.
3. With the time on the display panel, press and hold the Time/Frequency Selector (T/F) for approximately 2 seconds until the time display begins flashing.
4. Within 5 seconds of the display beginning to flash, press the Manual Down Tuning (  ) side of button **9** to adjust the hours and the Manual Up Tuning (  ) side of the button to adjust the minutes to the correct time.
5. After setting the correct time, press the Time/Frequency Selector (T/F) again or wait 5 seconds for the display to stop flashing.

## CD CHANGER CONTROLS

Built into this radio are controls to operate an optional 10-disc or 6-disc CD changer. Please check with your SPS/Audiovox or Prestige car stereo specialist for recommendations of the models that will work with this radio.

Adjustments of the audio functions (volume, tone, balance, and fader) operate in the same manner during CD play as they do for radio/cassette play. The following controls will operate the CD changer when it is installed and connected to this radio. Refer to the owners manual included with the CD changer for instructions on the installation and correct loading and use of the CD magazine.

### **CM** MODE SELECTOR (MODE)

With the CD changer connected to the unit, this button is used to select CD changer operation. To choose CD mode, press the button until the DISC and TRACK indications appear on the display panel. Press the Mode button again to change back to radio or tape operation.

### **CN** & **CO** DISC SELECT (DISC ) ( ) DISC )

These buttons are used to select the desired disc for play. To advance to a higher number disc, press the DISC  button **CN**. To return to a lower number disc, press the  DISC button **CO**. The number of the disc in play will be shown on the display panel.

### **CP** TRACK SELECT ( ) TRACK ( )

This button is used to quickly select the beginning of a particular track. Tap the Forward Track Select (  ) side of the button or Backward Track Select (  ) side of the button to locate the desired track as shown by the track number on the display panel.

### **CQ** CUE/REVIEW FUNCTIONS ( ) ( )

High-speed audible search to any section of the disc can be made by the Cue and Review functions. Press and hold the Cue (  ) side of the button to advance rapidly in forward direction or the Review (  ) side of the button to advance rapidly in the backward direction.

When the Cue (  ) side of the button is held down and the end of the last track on the disc is reached or the Review (  ) side of the button is held down until the beginning of the first track is reached, the unit will enter the Pause mode (  will flash on the display panel) until the button is released.

### **CR** PAUSE SELECTOR

Pressing this button will temporarily stop play of the disc (the  indication will flash on the display panel). Press the button again to resume play of the disc from the point at which it had stopped.

### **CS** TRACK/DISC SCAN (SCAN)

When the Scan button **CS** is pressed, the SCAN indication will appear on the display panel and the first 10 seconds of each track on the disc will be played in order. When a desired track is reached, press the Scan button **CS** again and play of that track will continue (SCAN will disappear from the display panel). The Track Scan mode will also be cancelled by activating any other disc function (Select, Cue, Review, Shuffle or Repeat).

When the Scan button **CS** is pressed and held longer than 2 seconds, the DISC and SCAN indications will appear on the display panel and the first 10 seconds of the first track on each disc will be played. When a desired disc is reached, press the Scan button **CS** again and

play of the disc will continue (DISC and SCAN will disappear from the display panel). The Disc Scan mode will also be cancelled by activating any other disc function (Select, Cue, Review, Shuffle or Repeat).

### **Ct TRACK/DISC REPEAT (RPT)**

When the Repeat button **Ct** is pressed, the RPT indication will appear on the display panel and play of the selected track will be continually repeated until the Track Repeat mode is cancelled by pressing the Repeat button **Ct** again or by activating the Scan **CS** or Shuffle **CU** functions (RPT will disappear from the display panel).

When the Repeat button **Ct** is pressed and held longer than 2 seconds, the DISC and RPT indications will appear on the display panel and play of the selected disc will be continually repeated. The Disc Repeat mode can be cancelled by pressing the Repeat button **Ct** again or by activating the Scan **CS** or Shuffle **CU** functions (DISC and RPT will disappear from the display panel).

### **CU TRACK/DISC SHUFFLE (SHF)**

When the Shuffle button **CU** is pressed, the SHF indication will appear on the display panel and the tracks on the disc will be played in a random, shuffled order. The Track Select button **CP** will also select tracks in the shuffled order instead of the normal progression. The Track Shuffle mode can be cancelled by pressing the Shuffle button **CU** again or by activating the Scan **CS** or Repeat **Ct** functions (SHF will disappear from the display panel).

When the Shuffle button **CU** is pressed and held longer than 2 seconds, the DISC and SHF indications will appear on the display panel and the discs in the magazine will be played in a random, shuffled order as well as the tracks on each disc. When all the tracks on the selected disc have been played, the next disc will be chosen in shuffled order and its tracks will be played in shuffled order. The Disc Shuffle mode can be cancelled by pressing the Shuffle button **CU** again or activating the Scan **CS** or Repeat **Ct** functions (DISC and SHF will disappear from the display panel).

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## **ERROR SIGNS**

If a problem should develop while operating the CD changer, the following error sign indications may appear on the display panel.

- E:01 Indicates abnormal disc changer function. Consult your car stereo specialist or service facility for further assistance.
- E:02 Indicates excessive temperature conditions. The error sign will go off and play will resume when the changer temperature returns to the normal range.
- E:07 Indicates disc may be loaded in the magazine upside-down. Re-load disc properly if necessary. May also indicate that the disc is dirty in which case, clean the disc and re-load it. If this does not restore correct operation, consult your car stereo specialist or service facility for further assistance.
- - - Magazine is not loaded in the changer.
- 0 0 0 No discs are loaded in the magazine.
- 1:- - No disc is loaded in magazine tray #1. (2: - - indication for tray #2, etc.)

## CARE AND MAINTENANCE

The radio portion of your new sound system does not require any maintenance. We recommend you keep this manual for future reference on how to set the clock and for general reference of the many features found in this unit.

As with any cassette player, the cassette section of this sound system does require a minimum of maintenance to keep it in good working condition. The following simple care and maintenance suggestions should be followed to prevent malfunctions of the cassette system.

### CASSETTE CARE:

1. Purchase a cassette cleaning kit from your local retail store. Use it! At least every 20 to 30 hours of operation you must clean the cassette mechanism. A dirty cassette player will have a poor sound.
2. Do not use cassettes that exceed 45 minutes of play on each side.
3. Do not insert a cassette that appears to be broken, twisted or dirty or with loose or torn labels on it.
4. Always keep your cassettes away from direct sunlight or exposure to sub-freezing conditions. If a cassette is cold, allow it to warm up before use.
5. Do not keep a cassette in the player when not in use.
6. Before inserting a cassette in the player, check that the tape is tightly wound on the reels. Take up any excess slack using a pencil to turn the drive hub in the cassette (see diagram below).

