

# SAAB

**Audio Equipment Manual—1988**

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## Preface

The sophisticated, high performance Saab/Clarion audio system in your car features a completely new design. It provides a higher level of operating convenience than ever before in an automotive sound system.

To make the most of the system's capabilities, however, you first will need to familiarize yourself with its features and controls. Please read this owner's manual carefully before operating the receiver/tape deck, equalizer/spectrum analyzer or optional compact disc player, then, practice performing all major functions while the car is stationary.

You will be rewarded with optimum audio performance on the road.

## Saab/Clarion Audio Protection System

The superlative performance and high-fidelity sound of your Saab/Clarion audio system is designed to give you many years of listening pleasure. Unfortunately, these same qualities would make the system a tempting target for theft if protective measures were not taken. These measures *have* been taken with the Saab/Clarion Audio Protection System.

### The Surest Protection: Removing Your Radio

Since there is no foolproof way to prevent a

determined thief from breaking into your car, the most effective deterrent is to remove the incentive to do so: Nobody can take something that is not there to be stolen. That is why your Saab/Clarion Audio System components have been designed on removable chassis.



Simply insert the special removal tools provided into the holes on both sides of the faceplate until they lock in place. Withdraw the unit from the dash.

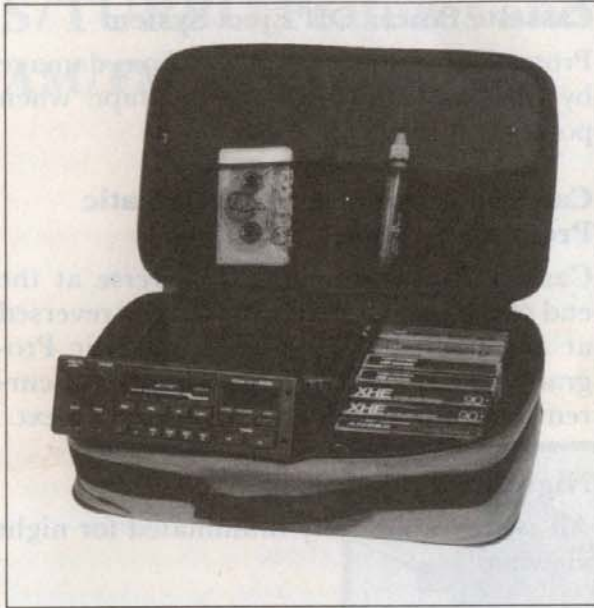
### IMPORTANT:

The power should be off and the tape should be ejected before removing the radio.



It takes just a few seconds and presents would be thieves with an empty space instead of a valuable target. You can either take the unit with you, or store it in your trunk. A specially designed protective carrying bag is available from your Saab dealer (Part Number 02 73 136). This bag is a convenient place to store your radio when it is removed and can also hold up to 8 cassettes and your Saab head cleaning cassette (Part Number 02 59 994).

To reinstall your unit, just slide it back into position. Gently apply pressure between the two removal holes on each side of the unit simultaneously until it locks into place. There are no wires to worry about and nothing for you to connect.



There is also a Tidy Box available (Part Number 02 73 417) which can be inserted into the brackets when the units are removed. This box protects the electrical connections and at the same time offers a convenient storage space for small articles. The tidy box can be easily removed using outward finger pressure while pulling towards you.

When the radio and/or equalizer is removed from the dash, it will retain any preset stations in its memory for at least one month.

### Handling Precautions

1. Protect the unit from moisture, high ambient temperature and humidity. Take sufficient care when cleaning the interior of the car and provide adequate ventilation.
2. Wipe the unit with a soft, dry cloth for cleaning. In cases of severe contamination, use some cleaning alcohol. Never use benzine, solvents or the like.

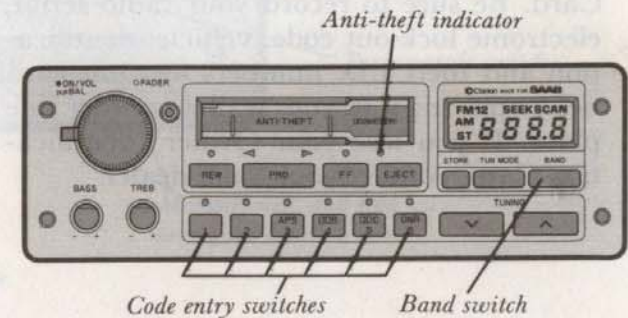
### Using the Electronic Lock-Out System (S/TURBO)

The second protective measure in the Saab/Clarion Audio Protection System is an ingenious electronic lock-out feature: This renders the cassette/receiver inoperable if it is removed from the dash or if the radio power is disconnected during servicing or for any other reason. The only way to make the unit functional again is by entering a special four digit code, which only you know.

Keying in the code is simple. The easy-to-understand instructions are given on the special card which contains your code numbers and are repeated here. After you've put the unit back into the dash, simply:

1. Turn on the ignition.
2. Turn on the radio.
3. Key in your code numbers using the station preset keys (1-6). The unit will operate.

If you make a mistake while entering your code, finish entering all four digits. Press and hold the BAND switch until CODE reappears on the display. Then enter the correct code. Your radio also has a built-in flashing light which indicates to outside viewers that it contains an electronic Anti-Theft System. When your ignition is turned off, this light will flash. It will not flash when the ignition is turned on. If you think it is necessary to turn off the flashing light, it can be done manually. Press and hold the BAND switch until the light goes out. This light will automatically be turned on again after the ignition has been turned on and off.



The Saab/Clarion Audio Protection System is built-in. To enjoy the years of listening pleasure your audio system was designed to provide, all you have to do is use it.

### **Owner Identification Card (S/TURBO)**

In your glove compartment, you will find an Owner Identification Card attached to a card carrier on which your electronic lock-out code and other important information is recorded. Your card also contains the step-by-step reinstallation procedures outlined above.

When you have transferred the owner identification information from your card carrier to your card, place the card in your wallet. Do not leave it in the glove compartment, where it can fall prey to vandals. File the card carrier with your other important documents, where it will not be available to anyone except you.

If you look at your card, you'll see that your Radio Part Number has already been recorded on your Owner Identification Card. Be sure to record your radio serial, electronic lock-out code, vehicle identification and theft I.D. numbers on your card before placing it in your wallet or other safe place. If you lose your Owner Identification Card, contact your Saab dealer.

## **Key Performance/ Convenience Features**

### **Touchplate Controls**

Controls are logically arranged and fall readily to hand, through ergonomically efficient design. Touchplate digital tuning eliminates conventional tuning knob inaccuracies.

### **Advanced FM Circuit Design**

Incorporates an automatic distance/local circuit (Keyed Automatic Gain Control) that automatically adjusts FM tuner sensitivity for ideal reception based on signal strength. Also, a dual-gate Field Effect Transistor/Balanced Mixer reduces interference from strong adjacent signals. A Signal Actuated Stereo Control (SASC) circuit reduces noise and resists multipath interference, while a special noise-canceling circuit blocks strong noise impulses received through the antenna. It all adds up to clear, clean FM reception under virtually any operating conditions.

### **AM Stereo (S/TURBO)**

Compatible with all motorola type AM stereo broadcasts. As long as an AM station is broadcasting in stereo, this tuner will receive the signal and reproduce it.

### **Cassette Power Off Eject System**

Protects tape and tape player from damage by automatically ejecting the tape when power is turned off.

### **Cassette Auto Reverse, Automatic Program System**

Cassette will automatically reverse at the end of the tape or can be manually reversed at any point during play. Automatic Program System (APS) permits replay of current selection or advancing on to the next.

### **Night Illumination**

All switches are fully illuminated for night viewing.

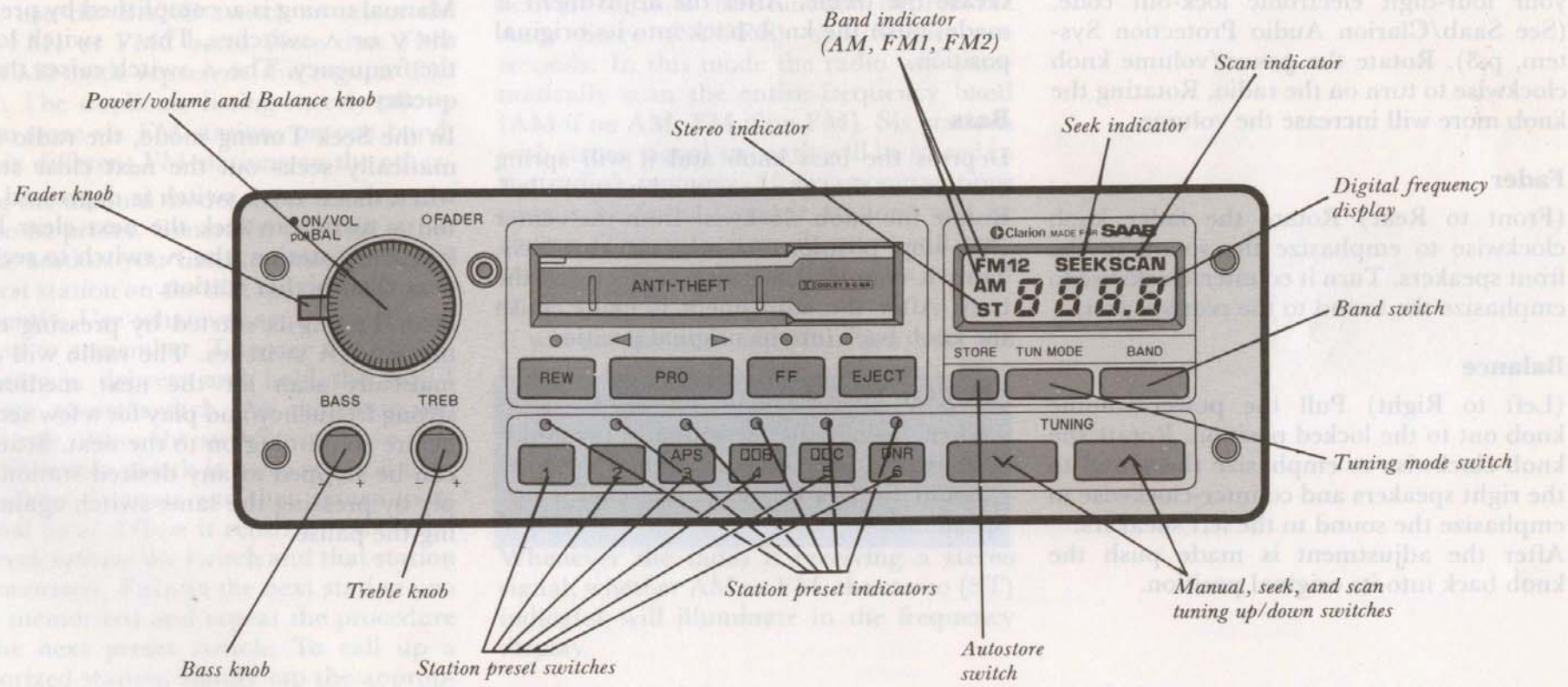
### **Automatic Antenna Circuit**

When the radio is turned on, the electronic antenna automatically extends. When the radio is turned off, the antenna automatically retracts.

When entering an automatic car wash, be sure to turn the radio off. If the car is driven through the car wash with the antenna extended, the antenna might be damaged.

# S/TURBO Features and Operation

## AM/FM Tuner Controls



## AM/FM Features and Operation

### Power/Volume Control

If you hear a warning beep, you must enter your four-digit electronic lock-out code. (See Saab/Clarion Audio Protection System, p.3). Rotate the power/volume knob clockwise to turn on the radio. Rotating the knob more will increase the volume.

### Fader

(Front to Rear) Rotate the fader knob clockwise to emphasize the sound to the front speakers. Turn it counter-clockwise to emphasize the sound to the rear speakers.

### Balance

(Left to Right) Pull the power/volume knob out to the locked position. Rotate the knob clockwise to emphasize the sound to the right speakers and counter-clockwise to emphasize the sound to the left speakers. After the adjustment is made push the knob back into its original position.

### Treble

Depress the treble knob and it will spring outward so that the treble can be controlled. Rotate the knob clockwise from the center click-stop position to increase the treble. Turn it counter-clockwise to decrease the treble. After the adjustment is made, push the knob back into its original position.

### Bass

Depress the bass knob and it will spring outward so that the bass can be controlled. Rotate the knob clockwise from the center click-stop position to increase the bass. Turn it counter-clockwise to decrease the bass. After the adjustment is made, push the knob back into its original position.

### IMPORTANT:

When using the seven-band graphic equalizer, the bass and treble settings should be left in the center click stop position.

### Tuning

Use the Tuning Mode switch to select manual, seek, or scan tuning. The frequency display will indicate both seek and scan modes. A blank display indicates manual mode.

Manual tuning is accomplished by pressing the  $\vee$  or  $\wedge$  switches. The  $\vee$  switch lowers the frequency. The  $\wedge$  switch raises the frequency.

In the Seek Tuning mode, the radio automatically seeks out the next clear station when the  $\vee$  or  $\wedge$  switch is depressed. Use the  $\vee$  switch to seek the next clear lower frequency station, the  $\wedge$  switch to seek the next clear higher station.

Scan Tuning is started by pressing either the  $\vee$  or  $\wedge$  switches. The radio will automatically scan for the next medium to strong frequency and play for a few seconds before continuing on to the next. Scanning can be stopped at any desired station simply by pressing the same switch again during the pause.

### Station Presets

You can preset up to 18 stations—six on each of the three indicated bands. Once you know which stations you'll enjoy listening to regularly, you can use the preset function to summon them instantly.

First, use the BAND switch to select the AM, FM1 or FM2 band. Note that FM1 and FM2 both represent the regular FM band. The duplicate listing merely allows you to store six FM stations on one band, and six different FM stations on the other.

Using the manual mode, select the first station to be preset. Generally, this will either be the station you listen to most often or the first station on the dial that you listen to frequently. Use whatever sequence is easy for you to remember. To enter this station in memory, depress and hold the No. 1 memory preset switch. An indicator will illuminate above the switch you have preset. While this switch is held, you will hear the volume decrease and then return to its original level. When it returns to its original level, release the switch and that station is memorized. Turn to the next station you want memorized and repeat the procedure on the next preset switch. To call up a memorized station, simply tap the appropriately numbered memory preset.

### Auto Store

If you are driving in an unfamiliar area—and thereby lose the stations you generally listen to—you can use the auto store function to find and memorize the strongest stations in the area which you're driving. To activate the auto store function, depress the Auto Store (STORE) switch for two seconds. In this mode the radio will automatically scan the entire frequency band (AM if on AM, FM if on FM). Six stations with strong signal strength will be stored in the radio's memory. If six strong stations cannot be found, weaker stations will be chosen. The auto store function will only store six stations at one time—six on AM or six on FM.

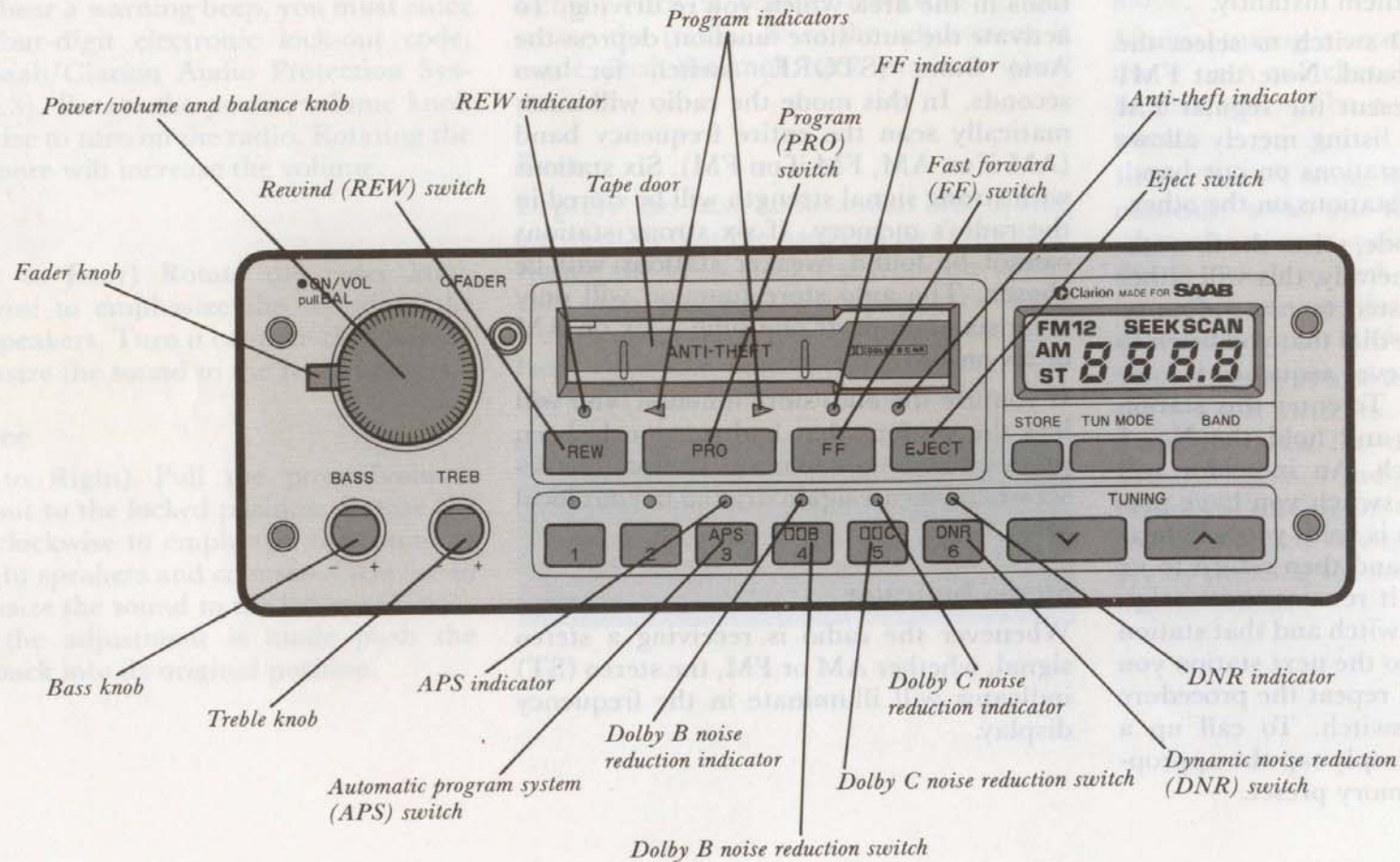
If you use the auto store function, you will lose the stations that had previously been programmed into memory. They can be reset when you are again driving in your local area.

### Stereo Indicator

Whenever the radio is receiving a stereo signal, whether AM or FM, the stereo (ST) indicator will illuminate in the frequency display.



## Cassette Controls (S/TURBO)



## Cassette Operation

### To Start

Turn on the Power switch to activate the unit, and the radio will begin playing. If you hear a warning beep, enter your four-digit code. Insert a cassette—desired playing side up and the exposed-tape side of the cassette to the right. The tape will begin playing, and the appropriate tape direction indicator will light. (◀▶ = forward play, ▶◀ = reverse.) Next, adjust volume with the volume knob. Select the appropriate noise reduction setting (described later in this section). Tape equalization is automatically selected (described later in this section).

### Cassette Programming

The tape player features auto reverse, which means the second side of a cassette will automatically be played when the first side is finished. But, if you decide you'd like to listen to Side B midway through Side A, you can switch instantly simply by pressing the Tape Program (PRO) switch.

### Fast Forward or Rewind

Fast forward or rewind is accomplished by pressing the FF or REW switch. It is not necessary to hold the switch while the tape is fast forwarding or rewinding. The appropriate indicator will illuminate above the switch.

#### NOTE:

- To release the cassette from fast forward, press the FF switch again. To stop the cassette from rewinding, press the REW switch again.
- If the tape is wound completely in the FF mode, it will stop automatically and play the opposite side. If the tape is wound completely in the REW mode, it will stop automatically and play the same side.
- If the tape is in the FF or REW mode and the Program switch is pressed, the tape will stop and begin to play in the opposite direction.

### Automatic Program System (APS)

This feature provides still more flexibility. It allows you to repeat the selection you are currently listening to or jump ahead to the next selection before the current one is finished.

To repeat the selection that is currently playing, tap the APS switch (the APS indicator will light) and the cassette rewind (REW) switch.

To jump to the next selection, tap APS and the cassette fast-forward (FF) switch.

**NOTE:** The APS system may occasionally be “fooled” by the long low-level passages in classical music, since these resemble the silent gaps between selections.

## Tape Equalization

There are several different types of tape currently in use, and Automatic Tape Equalization is provided to enable you to match their playback characteristics for the best sound. Most tapes have a normal equalization of  $120\mu\text{s}$  (normal bias). Unless there is some indication to the contrary—such as the designations “metal,” “chrome” or “ $70\mu\text{s}$ ” (high bias)—you can assume that the tape requires normal equalization and the unit will select the normal mode. However, high-performance metal and chrome cassettes (as well as ferrichrome, an infrequently used tape type) require a different equalization. In this case the unit will select the high-bias position.

There is one important exception: Many prerecorded cassettes today use chrome tape for improved performance with normal bias ( $120\mu\text{s}$ ) equalization. In this case the unit will not select high-bias.

## Noise Reduction

This tape player offers three types, Dolby®B (   B ), Dolby®C (   C ) and Dynamic Noise Reduction (DNR). If a cassette is Dolby encoded (look for the   ), press the appropriate Dolby   switch. If the cassette is not Dolby encoded, the DNR switch will still provide useful noise reduction. There are illuminated indicators for all three controls.

## Eject

When you're finished listening to a tape, simply press the Tape Eject (EJECT) switch. The cassette will be released for retrieval from the tape slot, and the radio will resume playing the most recently tuned station. Your tape will automatically be ejected if the power is turned off.

### IMPORTANT:

The tape should be ejected before removing the radio.

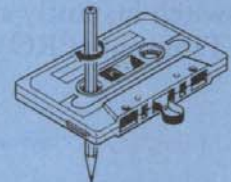
## Routine Maintenance

To perform at its peak, your tape player requires periodic cleaning and demagnetization (elimination of the magnetic field that gradually builds up around the playback head). Of the two tasks, cleaning is the most important—dulled high frequencies will result if it is not carried out regularly.

Cleaning should be performed after every eight to ten hours of playing time, using the Saab head-cleaning cassette (Part Number 02 59 994) or that of another reputable brand. Demagnetizing should be carried out every 50 to 100 hours of playing time, using a quality head demagnetizer (available from most car stereo and audio stores).

### HANDLING TIPS:

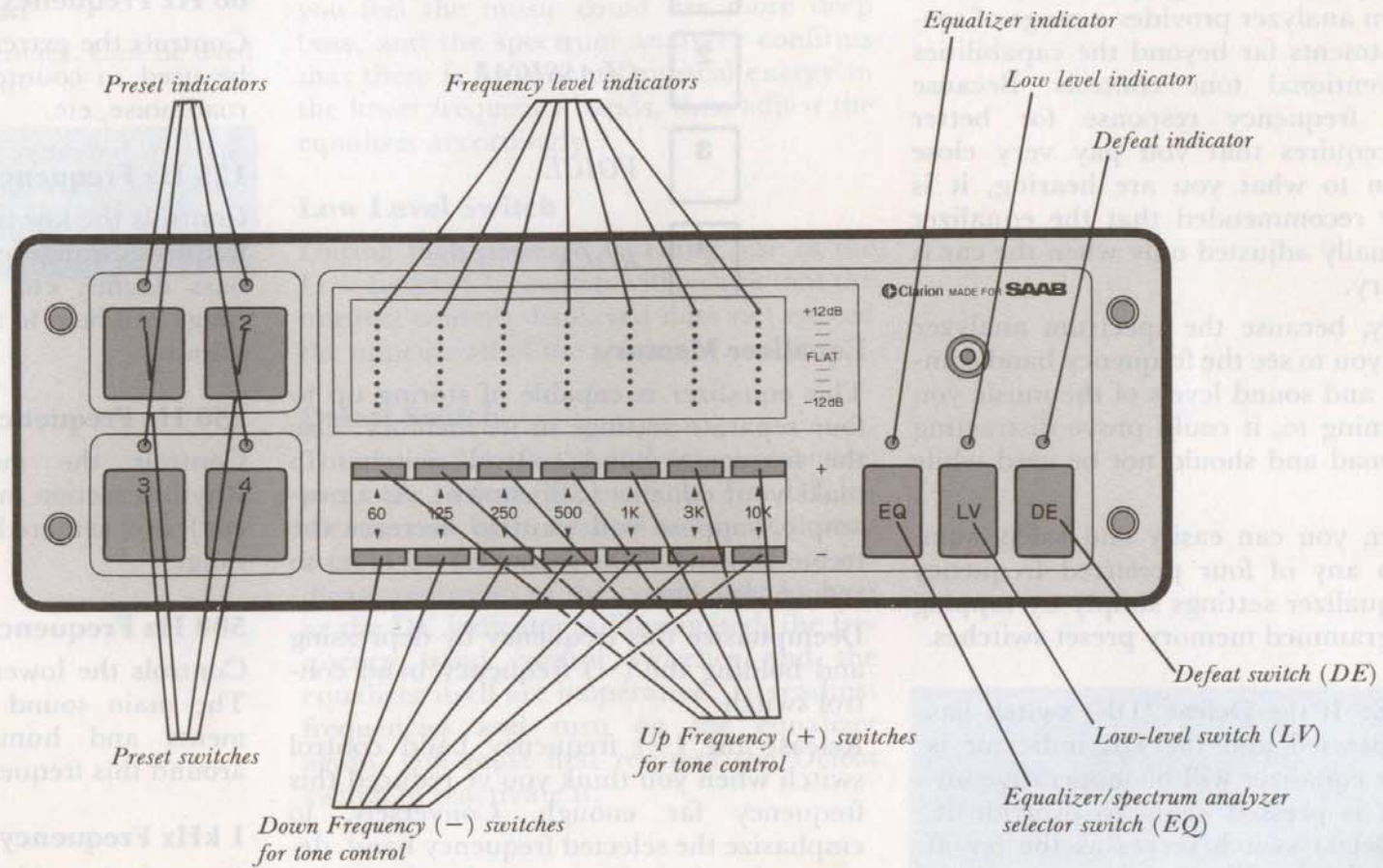
- Store cassettes in their plastic cases when not in use.
- Do not leave cassettes in your car, particularly during warm weather.
- Take up any slack in the cassette before playing.



- Do not play C-120 (or longer) cassettes. The tape in these cassettes is very thin and prone to breakage.

# Equalizer Features and Operation

## Graphic Equalizer/Spectrum Analyzer



## Computer Control Equalizer/Spectrum Analyzer Operation

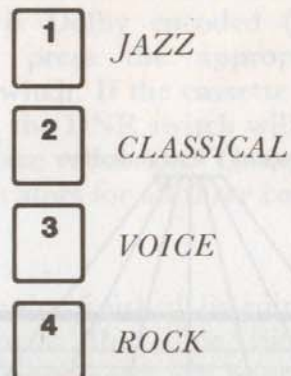
This sophisticated graphic equalizer/spectrum analyzer provides a range of tonal adjustments far beyond the capabilities of conventional tone controls. Because altering frequency response for better sound requires that you pay very close attention to what you are hearing, it is strongly recommended that the equalizer be manually adjusted only when the car is stationary.

Similarly, because the spectrum analyzer enables you to see the frequency band components and sound levels of the music you are listening to, it could prove distracting on the road and should not be used while driving.

However, you can easily and safely summon up any of four preferred frequency band equalizer settings simply by tapping the programmed memory preset switches.

**NOTE:** If the Defeat (DE) switch has been pressed and the DE indicator is on, the equalizer will be inoperative until DE is pressed again to override it. The Defeat switch serves as the on-off control for the equalizer.

Your equalizer has been set at the factory to enhance four types of music. You may keep these settings or store new ones to suit your listening taste.



### Equalizer Memory

This equalizer is capable of storing up to four separate settings in its memory. Use the frequency band control switches to make your equalizer adjustment. As an example, suppose you want to decrease the treble content of the music (at 10 kHz) to reduce tape hiss.

Deemphasize this frequency by depressing and holding the (-) frequency band control switch.

Release the (-) frequency band control switch when you think you've reduced this frequency far enough. Conversely, to emphasize the selected frequency band, depress the (+) frequency band control switch.

Repeat this procedure with each frequency band that needs adjusting. Then, if you wish to enter your settings in memory, simply press and hold an appropriate memory preset (1-4) until it flashes.

### 60 Hz Frequency Band

Controls the extreme low frequencies. Can be used to counter the masking effect of road noise, etc.

### 125 Hz Frequency Band

Controls the low frequencies. Boosting this frequency range emphasizes the sound of bass drums, etc. Cutting this frequency range can help to alleviate muffled speaker sound.

### 250 Hz Frequency Band

Controls the medium-low frequencies. Rhythm section instruments (drums, bass, etc.) are centered around this frequency range.

### 500 Hz Frequency Band

Controls the lower mid-range frequencies. The main sound energy of most instruments and human voices is centered around this frequency range.

### 1 kHz Frequency Range

Controls the mid-range frequencies (above 500 Hz).

### 3 kHz Frequency Band

Controls the upper mid-range frequencies. The human ear is most sensitive in this range. Excessive boost can therefore lend a stringent quality to the sound.

### 10 kHz Frequency Band

Controls the high frequencies. Can be used to attenuate tape hiss, etc.

**NOTE:** If the unit is removed or battery power is disconnected for any reason, the equalizer memory will retain your settings for up to one month.

### Spectrum Analyzer

Simply press the Equalizer/Spectrum Analyzer (EQ) switch to turn on the spectrum analyzer; the EQ indicator will go out. Use the spectrum analyzer display to confirm the evidence of your ears. For example, if you feel the music could use more deep bass, and the spectrum analyzer confirms that there is little or no musical energy in the lower frequency bands, then adjust the equalizer accordingly.

### Low Level Switch

During high-powered listening, use of the Low Level (LV) switch will ensure that the musical content displayed does not exceed the upper level of the spectrum analyzer.

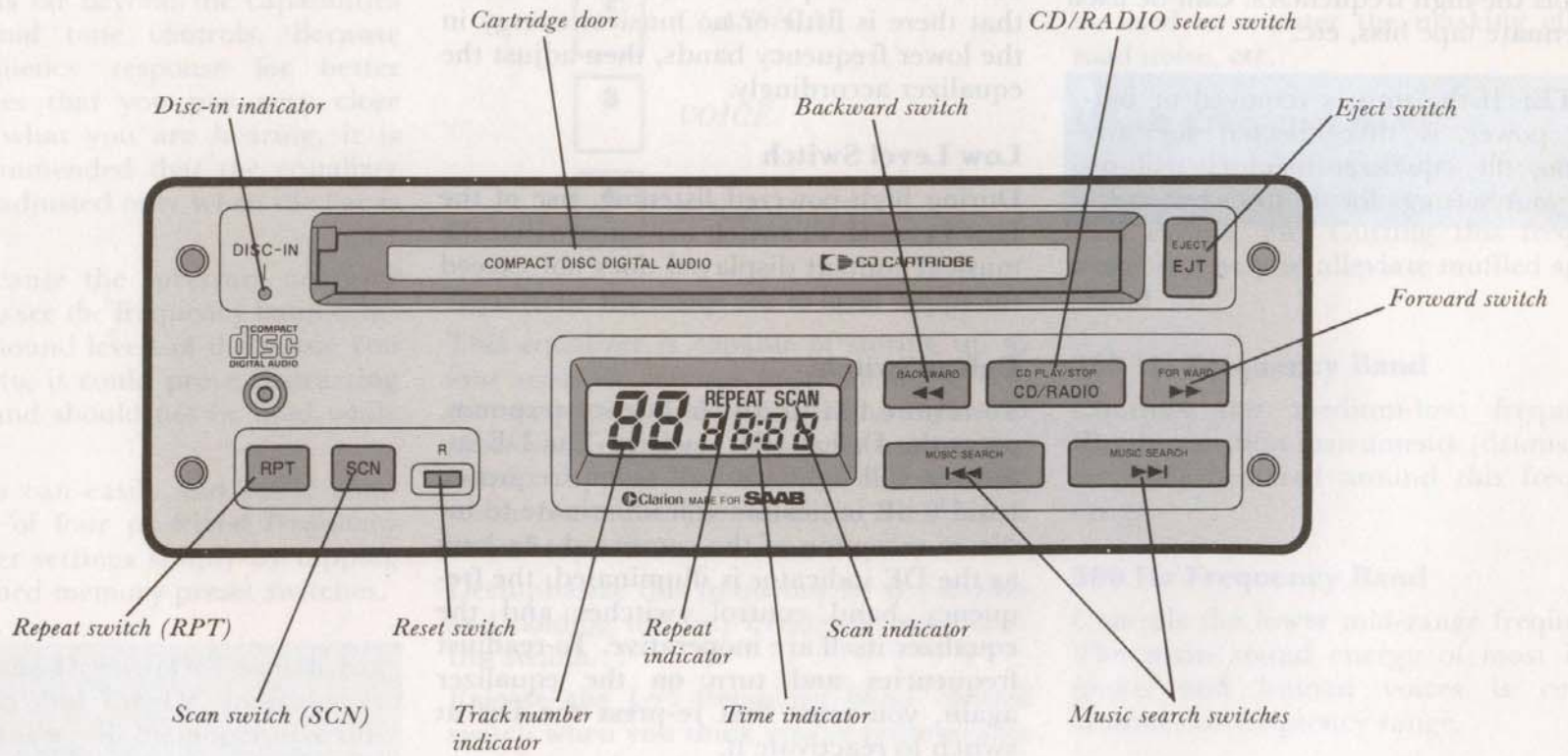
### Defeat Switch

To restore flat (0 dB) frequency response, press the Defeat (DE) switch. The DE indicator will light, and all seven frequency band 0 dB indicators will illuminate to indicate reception of the command. As long as the DE indicator is illuminated, the frequency band control switches and the equalizer itself are inoperative. To readjust frequencies and turn on the equalizer again, you must first re-press the Defeat switch to reactivate it.

# Compact Disc Player Features and Operation




CD PLAYER  
(OPTIONAL)



## Compact Disc Player Features and Operation

### Introduction

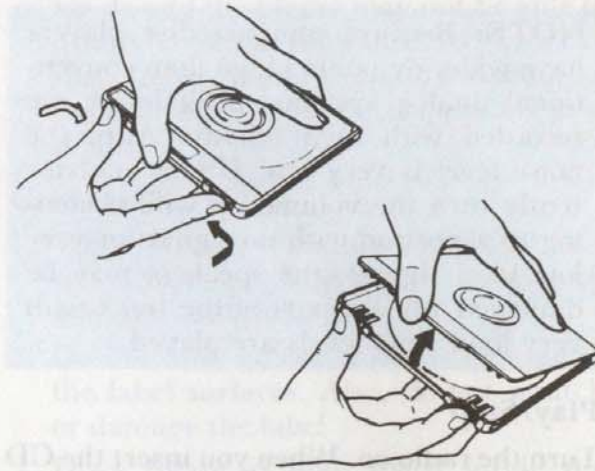
The optional Saab/Clarion compact disc (CD) player is designed to slide into the equalizer bracket on all Saab models which are equipped with the graphic equalizer. As an anti-theft measure and for ease of installation the CD player has been designed to utilize the same slide out chassis design as the graphic equalizer.

The CD player is designed to use a cartridge system both to simplify CD handling and protect the CD in the automotive environment. Five of these cartridges are supplied with your CD player. This unit has been designed specifically for the playing of compact discs bearing the "  " symbol. No other types of discs can be played.

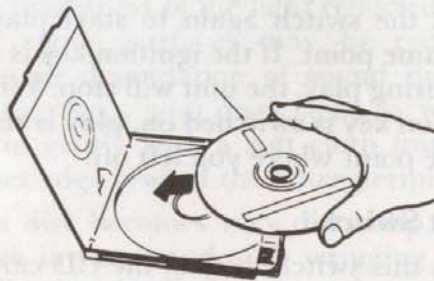
### Compact Disc Cartridge

The compact disc cartridge has been designed to protect your compact disc from dust, scratches and fingerprints.

1. To unlock the CD cartridge, press the release buttons inward and open the cartridge lid.

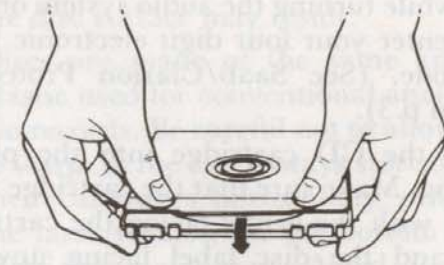


2. Open the cartridge lid and place the compact disc with the label surface facing upward, making sure that you handle the compact disc by the edges.

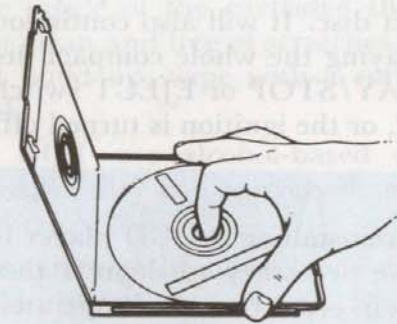


3. Close the lid of the cartridge. Lock the lid securely, so that the two buttons click in place with gentle pressure between your thumb and index fingers on

the leading edge near the direction of arrow.



4. To remove the compact disc from the CD cartridge, press the release buttons inward as shown, open the lid, and holding the compact disc by the center and edge as shown below, gently lift it out of the cartridge.



5. Additional cartridges may be obtained from your Saab dealer in packages of five (Part Number 02 73 722).



## To Start

All audio functions and adjustments are controlled by the radio head. If you hear a beep while turning the audio system on you must enter your four digit electronic lock-out code. (See Saab/Clarion Protection System p.3).

Insert the CD cartridge into the player opening. Make sure that the cartridge is inserted with the arrow facing the cartridge door and the disc label facing upward. Push the cartridge gently in until the motorized loading system automatically accepts the cartridge into the player. When the cartridge is accepted, the DISC-IN indicator will flash for about three seconds, then remain ON. The cartridge will be automatically loaded and the player will immediately begin playback. The player will always start at track 1 and play the entire compact disc. It will also continuously repeat playing the whole compact disc until the PLAY/STOP or EJECT switch is depressed, or the ignition is turned off.

## Reset

After reinstalling the CD player it may become necessary to depress the reset switch in order to make it operate.

**NOTE:** Because compact disc players have wider dynamic range than conventional analog systems, peak levels are recorded with high fidelity. Also, the noise level is very low. If you inadvertently turn the volume up while listening to a portion with no signals or very low level signals, the speakers may be damaged when a part of the track with very loud peak levels are played.

## Play/Stop

Turn the radio on. When you insert the CD cartridge, it will automatically start to play and the number 1 will appear in the display. The display shows the number of the track currently being played. It will also display the elapsed time of the selection in minutes and seconds. Press the CD/Radio switch to stop play. The radio will play. Press the switch again to start play from the same point. If the ignition key is turned off during play, the unit will stop. When the ignition key is switched on, play is resumed at the point where you left off.

## Eject Switch

Press this switch to eject the CD cartridge. The eject switch will still function with the ignition off.

## Music Search

When the player is in the normal play mode, these switches are pressed to search for a desired track. Pressing either switch causes the player to advance to the next track, or return to the previous track.

[▶▶]: When pressed once, the disc advances to the beginning of the next track on the disc; when pressed continuously, the disc moves to the beginning of succeeding tracks on the disc.

[◀◀]: When pressed once, the disc returns to the beginning of the currently playing track; when pressed continuously, the disc moves further in reverse to the beginning of previous tracks on the disc.

## Fast Forward/Fast Backward

Press ▶▶ Fast Forward or ◀◀ Fast Backward switch to activate a slow search. If you continuously depress the ▶▶ or ◀◀ button for more than ten seconds, the speed of the search will increase.

## Scan

Press the Scan (SCN) switch to search for your favorite track. "Scan" will illuminate in the LCD display. This function will play the first ten seconds of every track. To stop scanning press the Scan (SCN) switch again. "Scan" will disappear from the display.

## Repeat

Press the Repeat (RPT) switch when your favorite track is being played. "Repeat" will illuminate in the LCD display. This will enable you to repeat play the selection continuously until you cancel this function. To cancel Repeat, press the Repeat (RPT) switch again. The Repeat will disappear from the display.

### IMPORTANT: HH: HH

Should the temperature in a car rise to an extreme level, the CD player will stop operating to protect the laser diode and HH:HH will illuminate. If this happens allow the CD player to return to normal temperature.

## Handling Precautions Compact Disc Player

1. If the car is parked for a long time in the sun during summer or in a cold location during winter, the temperature inside the car will reach extreme levels. As the unit may not function properly in such a case, use it only after the ambient temperature has returned to normal.
2. When the player is brought into a warm room from previously cold surroundings or when the room temperature is suddenly increased, condensation may form

inside and the player may not be able to attain its full performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.

### Care Of Discs

1. When holding discs, do not touch their signal surfaces. Hold by the edges, or by one edge and the center hole.
2. Do not affix gummed labels or tape to the label surfaces. Also, do not scratch or damage the label.
3. Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.
4. The presence of fingerprints or smudges on the surface of the disc, will not directly affect the recorded signals, but depending on the degree of contamination, the brightness of the light reflected from the signal surfaces may be reduced, causing degradation of sound quality. Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer periphery.
5. If a disc becomes very dirty, dip a soft cloth in water and after wringing it out well, wipe the dirt away gently, and then remove any water drops with another soft dry cloth.

6. Do not use record cleaning sprays of anti-static agents on discs. Also, never clean discs with benzene, thinner, or other volatile solvents, since damage to the disc surface may result.
7. Discs are made of the same kinds of plastic used for conventional analog audio records. Be careful not to allow discs to warp in the car. Always store discs in their cartridges horizontally, otherwise the laser window on the bottom of the cartridge may open. Avoid locations with high heat or humidity, or extremely low temperatures. Avoid leaving discs in cars, since the interior of a car can become very hot in direct sunlight. Always read and abide by the precautionary notes provided with each disc.

### Care Of Cartridges

1. The inside of the cartridge should be kept clean and free of scratches. Should dirt build up, wipe with a soft, damp cloth.
2. Do NOT use alcohol-based cleaning fluids, as they can severely damage CD surfaces.
3. If a cartridge becomes badly damaged replace it with a new one. Do not use cracked cartridges, as they may cause your CD player to malfunction.
4. The maximum allowable temperature of the cartridge is 70°C (158°F).

### Precaution

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to confirm the interference by the following measure.

Move the CD player away from the device that is being interfered with to confirm that the interference disappears.

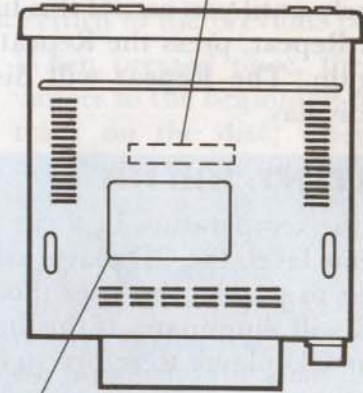
If necessary, the user, should consult the car dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems."

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

**CAUTION:** Use of controls, adjustment, or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

**DANGER—Invisible laser radiation when open and interlock failed or defeated.  
AVOID DIRECT EXPOSURE TO BEAM.** (CA07628-1)



 compact disc player made for 	
<b>PART NO. 02 73 698</b> <b>12V D.C. NEG. GND. CLARION CO., LTD.</b>	
<small>Complies with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC Rules.</small>	
<small>THIS PRODUCTION COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.</small>	
<small>MANUFACTURED BY CLARION CO., LTD. 50 KAMITODA, TODA-SHI, SAITAMA-KEN, JAPAN.</small>	
<b>PU-2006A</b>	<b>SERIAL NO.</b>
<b>MANUFACTURED:</b>	
286-6887-00	

# 900 Features and Operation

## AM/FM Cassette Controls

Power/volume and balance knob

Eject button (▲)

Tape door

APS indicator

Dolby NR indicator

Fast forward/Rewind buttons (◀◀/▶▶)

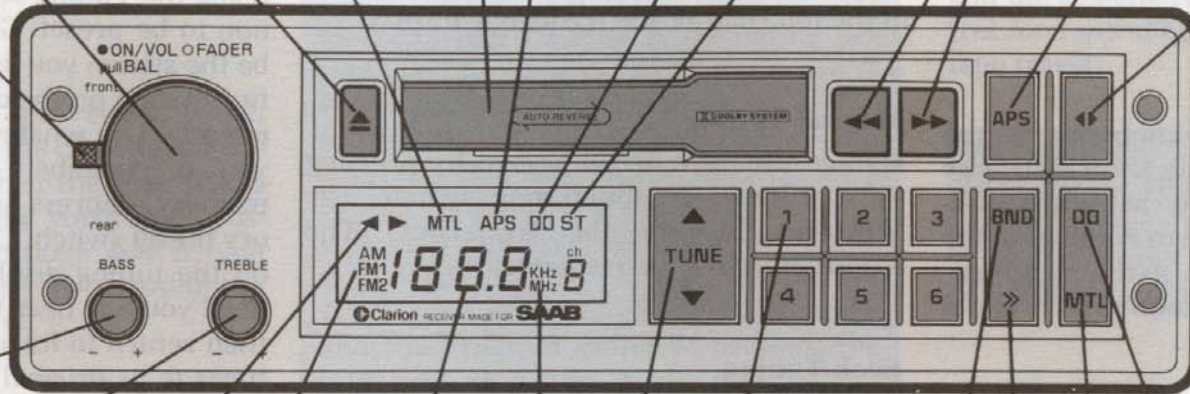
Fader knob

MTL indicator

Stereo indicator

Automatic program system (APS) switch

Tape program switch (◀▶)



Bass knob

Treble knob

Digital frequency display

Station Preset switches

Dolby noise reduction switch (□□)

Tape direction indicators

Station preset indicator

Tape equalization switch (MTL)

Band indicators

Manual tuning up/down switch (▲/▼)

Seek switch (>>)

Band switch (BND)

## AM/FM Features and Operation

### Power/Volume Control

Rotate the power/volume knob clockwise to turn on the radio. Rotating the knob more will increase the volume.

### Fader

Rotate the fader knob clockwise to emphasize the sound to the front speakers. Turn it counter-clockwise to emphasize the sound to the rear speakers.

### Balance

Pull the power/volume knob out to the locked position. Rotate the knob clockwise to emphasize the sound to the right speakers and counter-clockwise to emphasize the sound to the left speakers. After the adjustment is made return the knob to its original position.

### Treble

Depress the treble knob and it will spring outward so that the treble can be controlled. Rotate the knob clockwise from the center click-stop position to increase the treble. Turn it counter-clockwise to decrease the treble. After the adjustment is made, push the knob back into its original position.

### Bass

Depress the bass knob and it will spring outward so that the bass can be controlled. Rotate the knob clockwise from the center click-stop position to increase the bass. Turn it counter-clockwise to decrease the bass. After the adjustment is made, push the knob back into its original position.

### Stereo Indicator

Whenever the radio is receiving a stereo signal, the stereo (ST) indicator will illuminate in the top right of the frequency display.

### Manual Tuning

Manual tuning is accomplished by pressing the  $\Lambda$  or  $\nabla$  end of the tuning switch. The  $\nabla$  position lowers the frequency. The  $\Lambda$  position raises the frequency.

### Seek Tuning

In the Seek Tuning Mode, the radio automatically seeks out the next clear station when the  $>>$  switch is depressed. Use the  $>>$  switch to seek the next clear higher station.

### Station Presets

You can preset up to 18 stations—six on each of the three indicated bands. Once you know which stations you'll enjoy listening to regularly, you can use the preset function to summon them instantly.

First, use the BND switch to select the AM, FM1 or FM2 band. Note that FM1 and FM2 both represent the regular FM band. The duplicate listing merely allows you to store six FM stations on one band, and six different FM stations on the other.

Using the Tuning switch, select the first station to be preset. Generally, this will either be the station you listen to most often or the first station on the dial that you listen to frequently. Use whatever sequence is easy for you to remember. To enter this station in memory, depress and hold the No. 1 memory preset switch. Ch(annel) 1 will illuminate on the tuning display. While this switch is held, you will hear the volume decrease and then return to its original level. When it returns to its original level, release the switch and that station is memorized. Tune to the next station you want memorized and repeat the procedure on the next channel switch. To call up a memorized station, simply tap the appropriately numbered memory preset.

## Cassette Operation

### To Start

Turn on the power switch to activate the unit, and the radio will begin playing. Insert a cassette—desired side up and the exposed-tape side of the cassette to the right. The tape will begin playing, and the appropriate tape direction indicator will light. (<▶ = forward play, ◀▶ = reverse.) Next adjust volume with the volume knob. Select the appropriate tape equalization and noise reduction setting (described later in this section).

### Cassette Programming

The tape player features *auto reverse*, which means the second side of the cassette will automatically be played when the first side is finished. But, if you decide you'd like to listen to Side B midway through side A, you can switch instantly simply by pressing the Tape Program ◀▶ switch.

### Fast Forward or Rewind

Fast forward or rewind is accomplished by pressing the ◀◀ or ▶▶ switches. It is not necessary to hold the switch while the tape is forwarding or rewinding. The tape will wind at a high speed in the direction the arrows are pointed. Check tape direction indicator before pressing FF or REW to verify tape direction.

**NOTE:** To release the cassette from the fast forward or rewinding mode, partially depress the opposite function. Example: If the cassette is rewinding depress fast forward partially to release. If the tape is wound completely in the FF mode, it will stop automatically and play the opposite side. If the tape is wound completely in the REW mode, it will stop automatically and play the same side. If the tape is in the FF or REW mode and the Program switch is pressed, the tape will stop and begin play in the opposite direction.



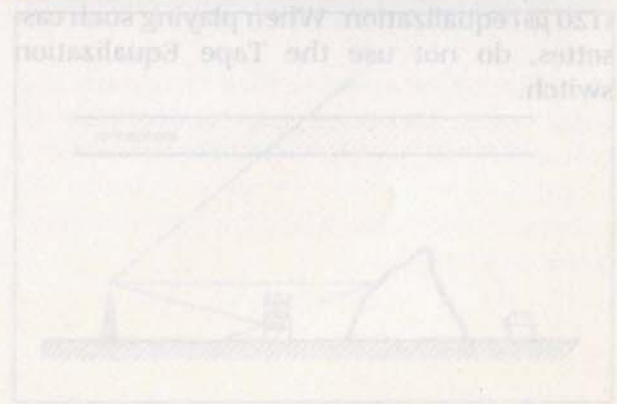
### Automatic Program System (APS)

This feature provides still more flexibility. It allows you to repeat the selection you're currently listening to or jump ahead to the next selection before the current one is finished.

To repeat the selection that is currently playing tap the APS switch (the APS indicator will light) and the cassette rewind or fast-forward control—whichever direction is *opposite* that of the current tape travel as shown by the tape direction indicators.

To jump to the next selection, depress APS and the cassette rewind or fast-forward control *corresponding* to the current direction of tape travel.

**NOTE:** The APS system may occasionally be “fooled” by the long low-level passages in classical music, since these resemble the silent gaps between selections.





## Tape Equalization

There are several different types of tape currently in use, and a Tape Equalization switch marked MTL for metal (a tape type) is provided to enable you to match their playback characteristics for the best sound. Most tapes have a normal equalization of 120  $\mu$ s (normal bias). Unless there is some indication to the contrary—such as the designations “metal”, “chrome” or “70  $\mu$ s” (high bias)—you can assume that the tape requires normal equalization and no adjustment is necessary. However, high-performance metal and chrome cassettes (as well as ferrichrome, an infrequently used tape type) require a different equalization. You can provide it by pressing the MTL switch. The MTL indicator will light to confirm proper equalization.

There is one important exception: Many prerecorded cassettes today use chrome tape for improved performance with normal bias (120  $\mu$ s) equalization. When playing such cassettes, do not use the Tape Equalization switch.

Depress the treble knob and it will spring outward so that the treble can be controlled. Rotate the knob clockwise from the center click/stop position to increase the treble. Turn it counterclockwise to decrease the treble. After the adjustment is made, push the knob back into its original position.


## Noise Reduction

This tape player offers Dolby® “B” Noise Reduction. If a cassette is Dolby encoded (look for the ) , press the Dolby  switch. There is an illuminated indicator for this control located in the display screen.

## Head-Release System

If the power is turned off while the tape is playing, the tape head will automatically release. When the power is turned on, the tape will begin normal play.

## Eject

When you’re finished listening to a tape, simply press the Tape Eject () switch. The cassette will be released for retrieval from the tape slot, and the radio will resume playing the most recently tuned station. To eject a cassette after the power has been turned off, depress and hold the Eject switch.

Usually, the tape will be released when the >> switch is depressed. Use the >> switch to seek the next clear higher station.

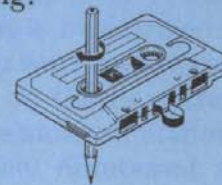
## Routine Maintenance

To perform at its peak, your tape player requires periodic cleaning and demagnetization (elimination of the magnetic field that gradually builds up around the playback head). Of the two tasks, cleaning is the most important—dulled high frequencies will result if it is not carried out regularly.

Cleaning should be performed after every eight to ten hours of playing time, using the SAAB head-cleaning cassette (Part Number 02 59 994) or that of another reputable brand. Demagnetizing should be carried out every 50 to 100 hours of playing time, using a quality head demagnetizer (available from most car stereo and audio stores).

## Handling Tips

1. Store cassettes in their plastic cases when not in use.
2. Do not leave cassettes in your car, particularly during warm weather.
3. Take up any slack in the cassette before playing.



4. Do not play C-120 (or longer) cassettes. The tape in these cassettes is very thin and prone to breakage.

## Broadcast Reception Performance Characteristics

FM reception poses particularly challenging problems because FM radio waves are transmitted at very high frequencies in straight lines like light waves. Any number of obstacles can and do get in the way: tall buildings, hills, etc. Such obstacles can cause "shadows" with momentary loss of signal.

In addition, FM signals can also be reflected by obstructions. When this happens, direct and reflected signals from the same station can arrive at the car's antenna simultaneously. The noise this causes is known as multipath interference.

The tuner in this unit was designed to minimize multipath interference and other common reception problems.

Under weak signal conditions, the Signal Actuated Stereo Control (SASC) circuit takes over to provide the strongest possible signal, switching to mono reception when circumstances warrant. An automatic distance/local reception circuit (Keyed Automatic Gain Control) provides full sensitivity, while a dual-gate FET RF amplifier provides a high signal-to-noise ratio.

Optimum selectivity virtually eliminates interference from strong nearby stations, and a special FM noise canceller works to sup-

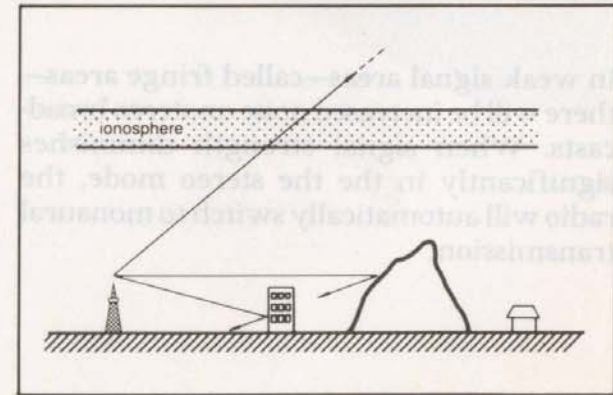
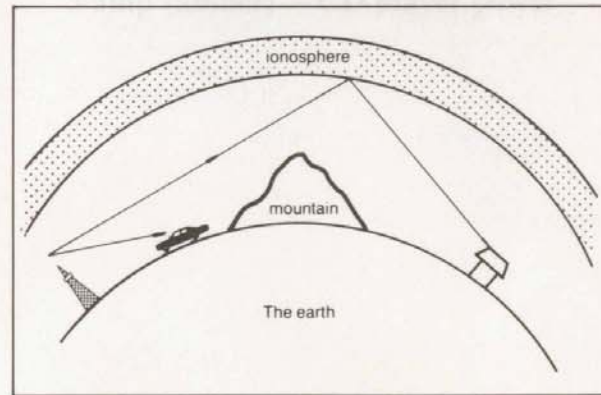
press ignition noise and other pulse interference. Wide dynamic range avoids overload distortion and the unpleasant noise it causes. Nor has AM reception been neglected in the design of this tuner. A special circuit feature permits only the strongest, clearest stations to get through when broadcast conditions are less than optimum. It is one more refinement that accounts for the superb performance of the tuner and adds to your listening enjoyment.

### AM and FM

Both AM and FM reception have advantages and disadvantages resulting from their differing properties. AM waves can reach longer distances than FM waves. They can bend around buildings or mountains and bounce off the ionosphere. This means that an AM service area is very wide.

FM waves, on the other hand, have much higher frequencies and shorter wave lengths. Unlike AM waves, they cannot travel around corners. They reflect off solid objects in their path, which limit the areas they can reach. An average FM signal can be heard only within a 25-mile to 35-mile radius of a transmitter.

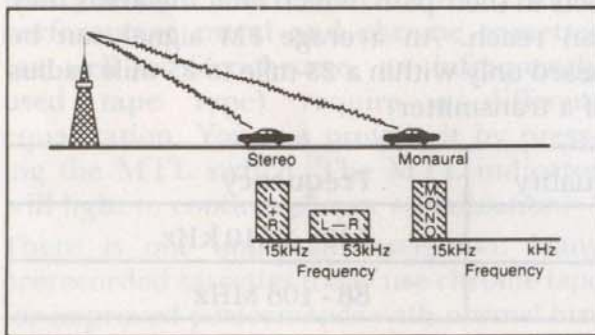
	Arrival distance	Sound quality	Frequency
AM	60 - 120 miles	Fair	530 - 1,610 kHz
FM	25 - 30 miles	Good	88 - 108 MHz



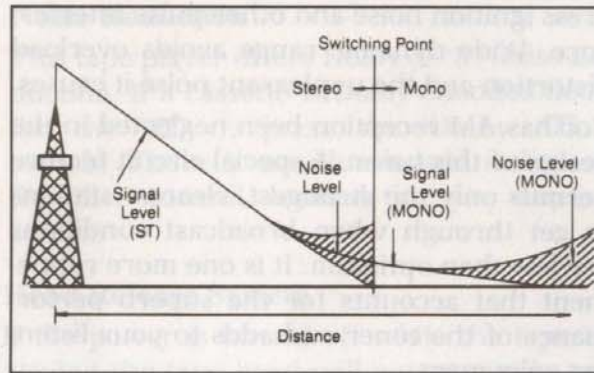


## Stereo and Monaural

Stereo and monaural FM reception characteristics are also different. Monaural transmission utilizes the range of audio frequencies audible to the human ear. Stereo transmission relies on a range of frequencies that extend beyond human hearing limits on both the high and low ends. This broadened frequency range requires more power, thereby reducing the range of a station broadcasting in stereo.



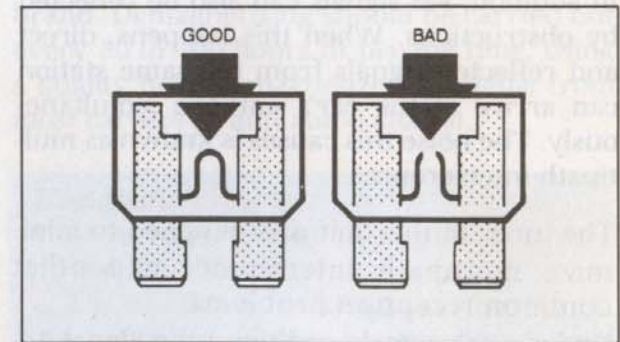
In weak signal areas—called fringe areas—there will be increased noise on stereo broadcasts. When signal strength diminishes significantly in the stereo mode, the radio will automatically switch to monaural transmission.



## Fuse Replacement

If your radio will not activate when you turn on the Power switch or if your electric antenna will not function, a fuse may have blown. Check the car fuses first:

- 900—Fuse box (under hood).
- Power Fuse #20 Blue 15 Amp
- Memory Fuse #28 Blue 15 Amp
- 9000—Fuse box (in glove box).
- Power Fuse #19 Blue 15 Amp



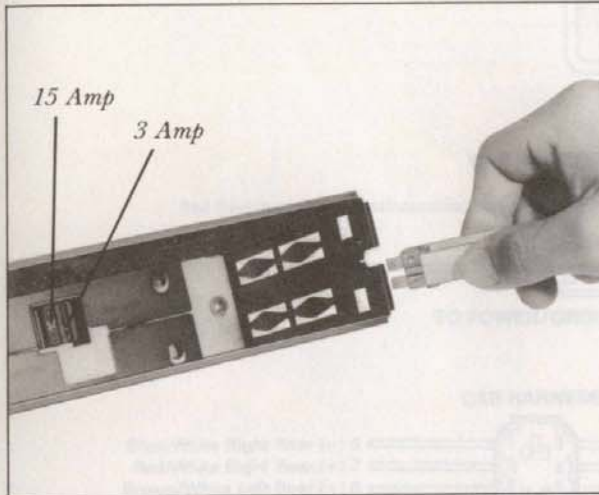
## S/TURBO

If the car fuses are good, check the radio fuses.

See directions below:

1. Insert the radio removal tools into the four holes in face of the radio.

2. Slide the unit out and locate the two blade type fuses at the rear inside of the bracket.
3. Check and replace the fuses as necessary using the removal tool found in the fuse box.
  - 15 amp (blue)—amplifier, equalizer and radio power
  - 3 amp (violet)—antenna trigger signal



**NOTE:** Never replace a “blown” fuse with a fuse of a higher rating.

4. Reinstall the radio by sliding it back into place. Gently apply pressure between the two removal holes on each side of the unit simultaneously until it locks into place.

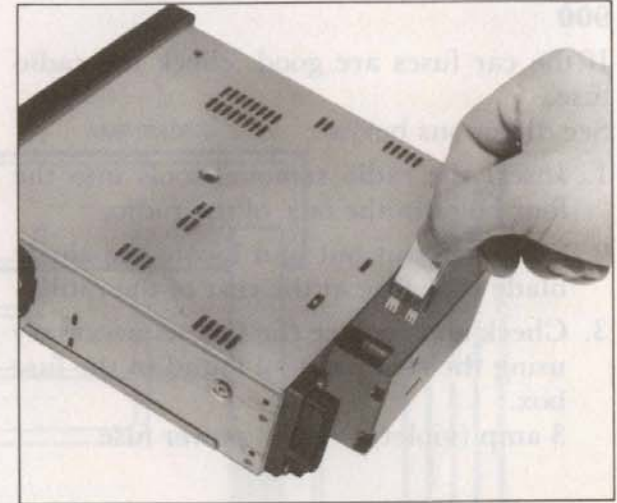
**NOTE:** To make the radio operational again you must enter the electronic lock-out code.

### Compact Disc Player

If the car fuses are good, check the CD player fuse.

See directions below:

1. Insert the radio removal tools into the face of the CD player.
2. Slide the unit out and locate the blade type fuse at the rear of the chassis.
3. Check and replace the fuse as necessary using the removal tool found in the fuse box.
  - 5 amp (amber)—CD player power



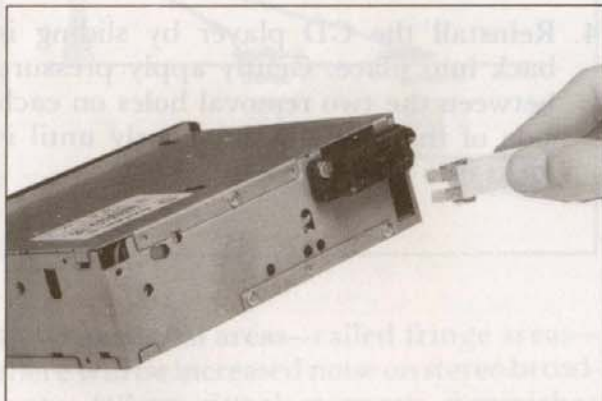
4. Reinstall the CD player by sliding it back into place. Gently apply pressure between the two removal holes on each side of the unit simultaneously until it locks into place.

**900**

If the car fuses are good, check the radio fuse.

See directions below:

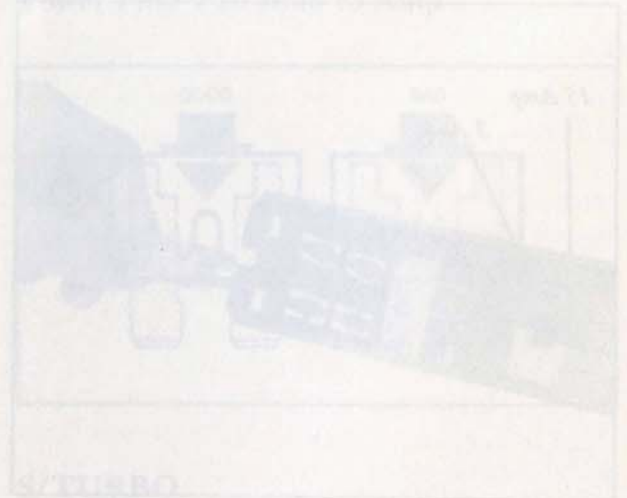
1. Insert the radio removal tools into the four holes in the face of the radio.
2. Slide the unit out and locate the single blade type fuse at the rear of the radio.
3. Check and replace the fuse as necessary using the removal tool found in the fuse box.  
3 amp (violet)—radio power fuse



**NOTE:** Never replace a “blown” fuse with a fuse of a higher rating.

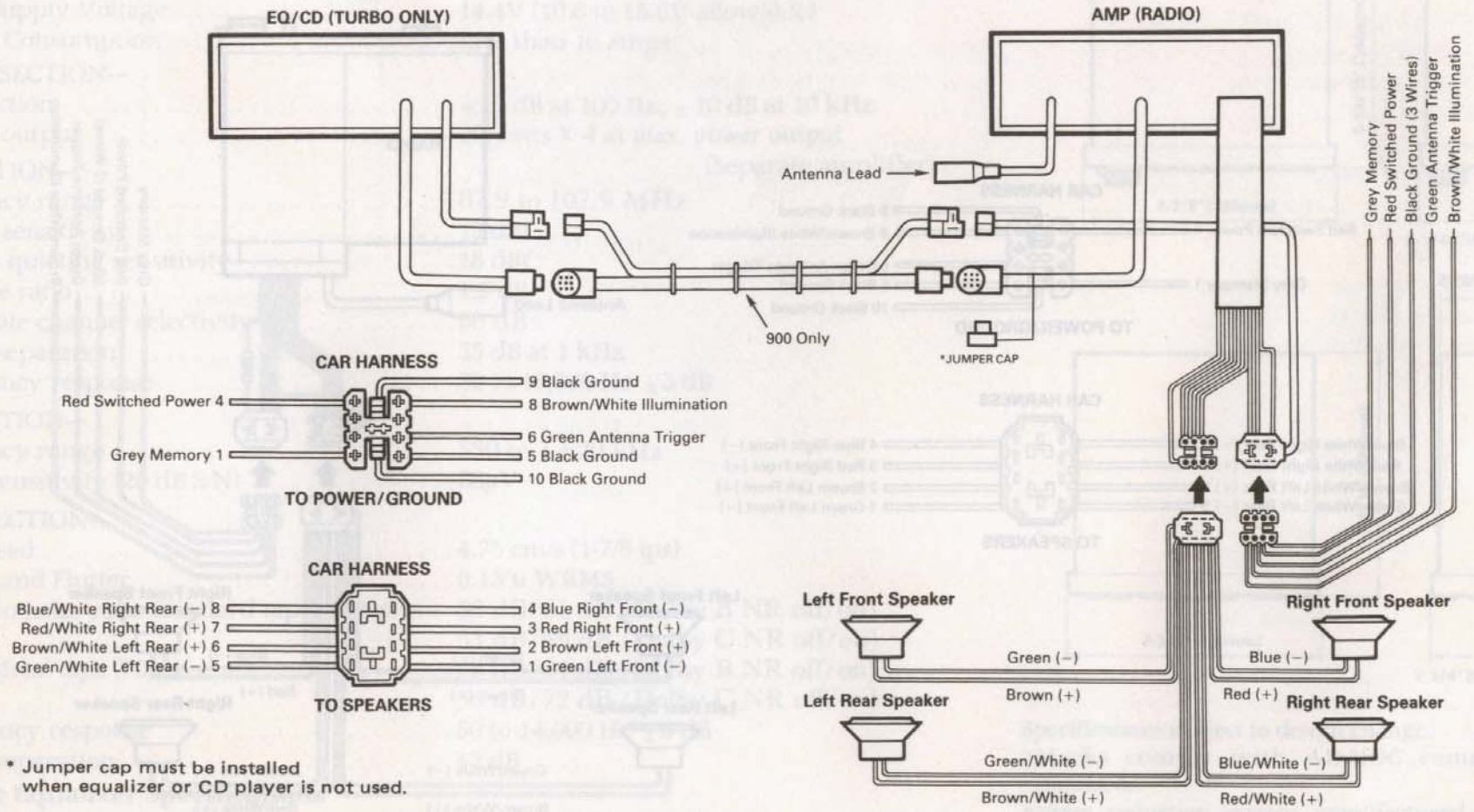
4. Reinstall the radio by sliding it back into place. Gently apply pressure between the two removal holes on each side of the unit simultaneously until it locks into place.

**Fuse Replacement**  
2. Slide the unit out and locate the single blade type fuse at the rear of the radio.  
3. Check and replace the fuse as necessary using the removal tool found in the fuse box.  
3 amp (violet)—radio power fuse



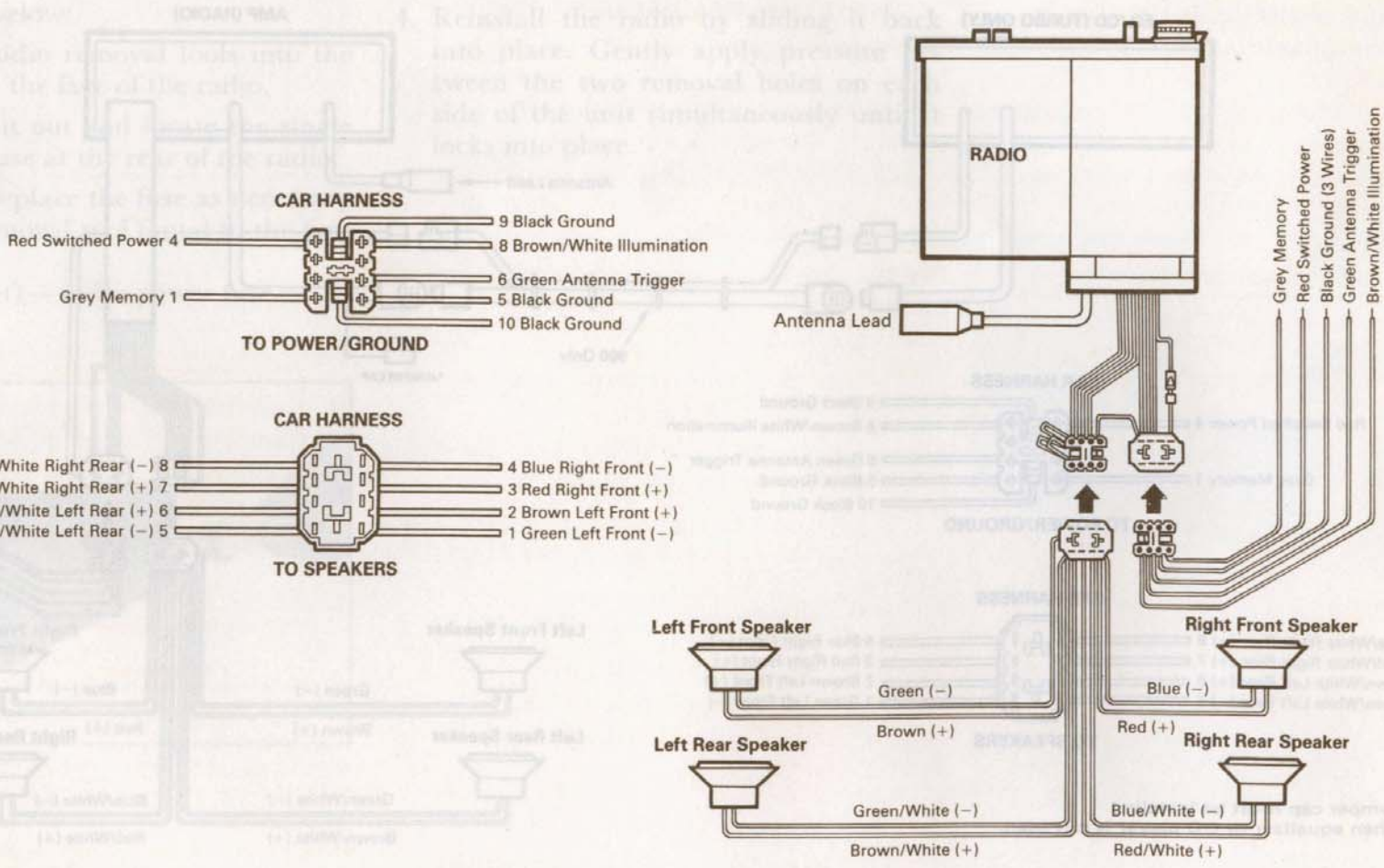
**NOTE:** Never replace a “blown” fuse with a fuse of a higher rating.  
1. Insert the radio removal tools into the four holes in the face of the radio.

**WIRING DIAGRAM S/TURBO**



\* Jumper cap must be installed when equalizer or CD player is not used.

WIRING DIAGRAM 900



# Specifications

## S/TURBO Specifications

### GENERAL—

Power Supply Voltage	14.4V (10.8 to 15.6V allowable)
Current Consumption	Less than 10 amps

### AUDIO SECTION—

*Tone action	± 10 dB at 100 Hz; ± 10 dB at 10 kHz
Power-output	20 watts × 4 at max. power output

(Separate amplifier)

### FM SECTION—

Frequency range	87.9 to 107.9 MHz
*Usable sensitivity	13 dBf
*50D dB quieting sensitivity	18 dBf
*Capture ratio	1.5 dB
*Alternate channel selectivity	60 dB
*Stereo separation	35 dB at 1 kHz
*Frequency response	30 to 15,000 Hz ± 3 dB

### AM SECTION—

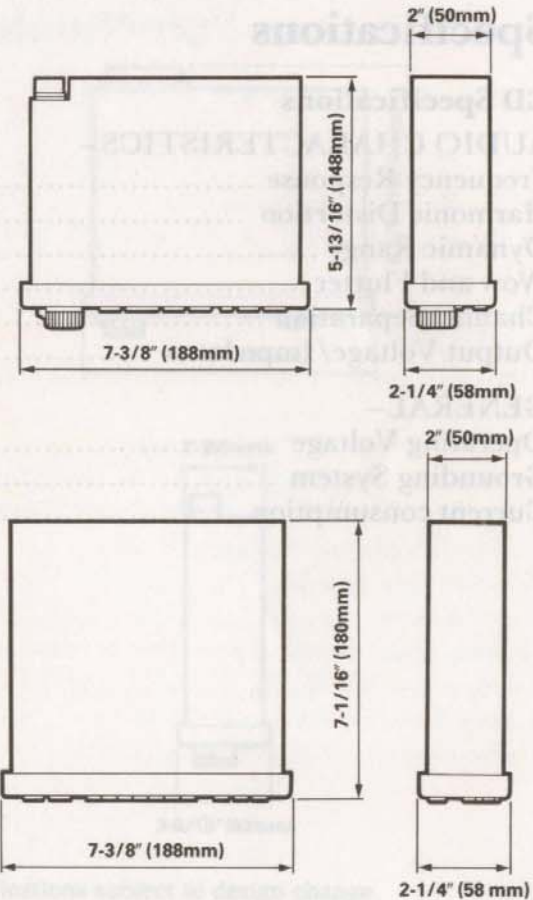
Frequency range	530 to 1,620 kHz
Usable sensitivity (20 dB S/N)	28µV

### TAPE SECTION—

Tape speed	4.75 cm/s (1-7/8 ips)
*WOW and Flutter	0.13% WRMS
*Signal to noise ratio Standard tape (120µs)	53 dB/61 dB (Dolby B NR off/on) 53 dB/69 dB (Dolby C NR off/on)
CrO2-Metal tape (70µs)	56 dB/64 dB (Dolby B NR off/on) 56 dB/72 dB (Dolby C NR off/on)
*Frequency response	50 to 14,000 Hz ± 3 dB
*Stereo separation	42 dB

### Graphic Equalizer Specifications

Center frequencies for adjustment	60 Hz/125 Hz/250 Hz/500 Hz/1 kHz/ 3 kHz/10 kHz
Adjustment range	± 12 dB each
Frequency response	20 Hz - 70 kHz $\left\{ \begin{array}{l} +0 \text{ dB} \\ -3 \text{ dB} \end{array} \right.$
Gain	2.5 dB
Distortion	0.003% (at 1 kHz)
Current consumption	580mA



Specifications subject to design change.

- \*Marks comply with AD-HOC committee standards.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- “Dolby” and the double-D symbols are trademarks of Dolby Laboratories Licensing Corporation.

## Specifications

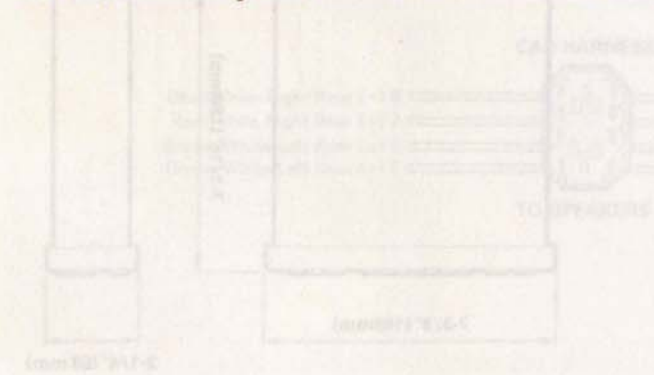
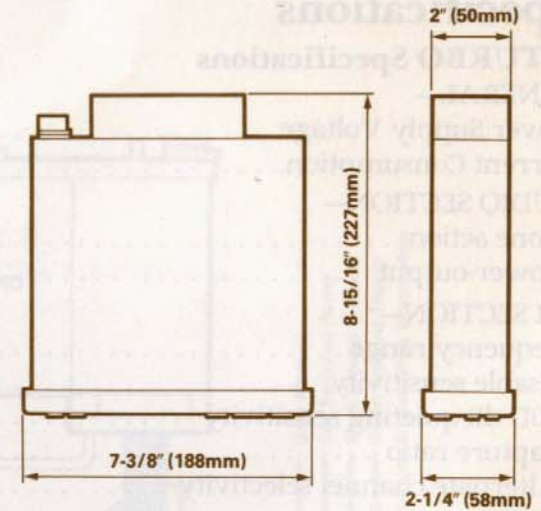
### CD Specifications

#### AUDIO CHARACTERISTICS—

Frequency Response .....	20 to 20,000 Hz, +0/-3 dB
Harmonic Distortion .....	Less than 0.03% (1 kHz, 0 dB to -40 dB)
Dynamic Range .....	90 dB
Wow and Flutter .....	Unmeasurable
Channel Separation .....	75 dB (1 kHz)
Output Voltage/Impedance .....	1.2 V/330 $\Omega$

#### GENERAL—

Operating Voltage .....	14.4V DC (10.8 to 16.0V allowable)
Grounding System .....	Negative type
Current consumption .....	800mA



## Specifications

### 900 Specifications

#### GENERAL—

Power Supply Voltage .....	14.4V (10.8 to 15.6V allowable)
Current Consumption .....	Less than 3 Amps

#### AUDIO SECTION—

*Tone action .....	± 8 dB at 100 Hz ± 5 dB at 10 kHz
Power-output .....	6 Watts x 2 at maximum power output

#### FM SECTION—

Frequency range .....	88.1 to 107.9 MHz
*Usable sensitivity .....	12 dBf
*50 dB quieting sensitivity .....	17 dBf
*Capture ratio .....	1.5 dB
*Alternate channel selectivity .....	70 dB
*Stereo separation .....	35 dB at 1 kHz
*Frequency response .....	30 to 15,000 Hz ± 3 dB

#### AM SECTION—

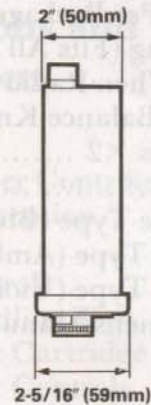
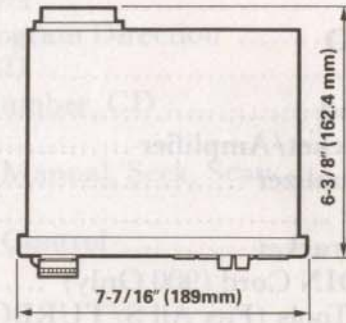
Frequency range .....	530 to 1610 kHz
Usable sensitivity (20 dB S/N) .....	28 $\mu$ V

#### TAPE SECTION—

Tape speed .....	4.75 cm/s (1-7/8 ips)
*WOW & Flutter .....	0.13% WRMS
*Signal to noise ratio	
Standard tape (120 $\mu$ s) .....	53 dB/62 dB (Dolby NR off/on)
CrO2 Metal tape (70 $\mu$ s) .....	56 dB/65 dB (Dolby NR off/on)
*Frequency response .....	50 to 12,500 Hz ± 3 dB
*Stereo separation .....	42 dB

#### WEIGHT—

AM/FM Stereo .....	1.98 lbs (0.9 kg)
AM/FM Cassette .....	3.09 lbs (1.4 kg)



Specifications subject to design change.

- \* Marks comply with AD-HOC committee standards.
- \* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- \* "Dolby" and the double D symbols are trademarks of Dolby Laboratories Licensing Corporation.



## Audio System Part Numbers

### S/TURBO

	<b>SAAB P/N</b>
Radio Head .....	02 73 672
Radio Bracket/Amplifier .....	95 27 961
Turbo Equalizer .....	02 73 680
CD Player .....	02 73 698
EQ/CD Bracket .....	95 27 979
EQ/CD DIN Cord (900 Only) .....	95 28 217
Removal Tools (Fits All S/TURBO Units)	
With Pouch .....	02 73 706
CD Cartridges (5 Per Package) .....	02 73 722
Radio Carrying Bag (Fits All Removable Radios) ....	02 73 136
Tidy Box (Used When Radio Is Removed) .....	02 73 417
On/Off/Volume/Balance Knob .....	02 73 730
Bass/Treble Knobs ×2 .....	02 73 755
Fader Knob .....	02 61 362
15 Amp Fuse Blade Type (Blue) .....	79 74 645
5 Amp Fuse Blade Type (Amber) .....	02 11 300
3 Amp Fuse Blade Type (Violet) .....	02 61 826
Audio System Owner's Manual .....	02 73 714

### 900

	<b>SAAB P/N</b>
Radio Head .....	02 84 299
Radio Bracket .....	95 28 209
On/Off Volume Knob .....	02 73 201
Fader Knob .....	02 61 362
Tone/Balance Knob ×2 .....	02 73 219
Removal Tools (Base Radio Only) With Pouch .....	02 73 128
Radio Carrying Bag .....	02 73 136
Tidy Box (Used When Radio Is Removed) .....	02 73 417
3 Amp Fuse Blade Type (Violet) .....	02 61 826
Radio Adaptor Cable M83-85 To M88 .....	02 73 185
Audio System Owner's Manual .....	02 73 714

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