

P-15

**ELECTRONICALLY-TUNED AM/FM/MPX RADIO
WITH STEREO CASSETTE PLAYER
AND QUARTZ CLOCK**



**OWNER'S
MANUAL**

OPERATING INSTRUCTIONS

1 ON-OFF SWITCH/VOLUME CONTROL

Rotate this knob clockwise to turn the radio on. Continue rotation until the desired volume level is obtained. Rotate the knob fully counter-clockwise to turn the unit off.

2 TONE CONTROL (PUSH)

Push this knob in and rotate it clockwise to emphasize treble response, counter-clockwise to emphasize bass response. A detent click can be felt at the center of rotation. The knob will automatically return to the outer position (volume control) when released.

3 LEFT/RIGHT BALANCE CONTROL

Rotate this knob to the left or right to obtain the desired balance between left and right speakers. A detent click can be felt at the center of rotation.

4 FRONT/REAR FADER CONTROL

Rotate this knob to the left or right to fade the sound between the front and rear speakers in 4 speaker installations. A detent click can be felt at the center of rotation. When used in conjunction with the Left/Right Balance Control **3**, you have full 4-way stereo balance capability. In 2 speaker installations, rotating the Fader Control will have no effect on the speaker output.

5 AM/FM BAND SELECTOR (AM/FM)

Each time this button is pressed, the radio band is changed. The indication "AM1", "AM2", "FM1", "FM2", or "FM3" will appear on the display panel according to your selection.

6 MANUAL UP/DOWN TUNING

To manually select a radio station frequency, rotate the knob to the right. The radio will advance one frequency step higher. To tune downward, rotate the knob to the left. Holding the knob in either position for longer than 0.5 seconds will cause the radio to tune rapidly in the selected direction.

7 AUTOMATIC SEEK TUNING

Pressing this button will activate the Automatic Seek Tuning function. The radio will seek the next available station in the Up tuning direction and stop at that frequency. The Seek function can be stopped by pressing the button again or activating any other tuning function.

8 LOCAL/DISTANT SELECTOR (LOC)

This feature is used to select the strength of the signals at which the radio will stop during Automatic Seek Tuning. Pressing the button will select the Local setting ("LOC" will appear on the display panel) and only strong (local) stations will be received. Pressing the button again will select the Distant setting ("LOC" will disappear from the display panel) and the radio will stop at a wider range of signals, including weaker (more distant) stations.

9 PRE-SET SCAN TUNING (PS) AUTO-STORE TUNING (AS)

During radio operation, press this button momentarily to scan the 6 stations pre-set into the memories of the 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 Pre-Set Scan 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 Tuning, which will automatically scan the band in use and enter strong stations into the pre-set memory positions for that band. After entering the stations in the memories, the unit will automatically begin scanning the pre-sets for 5 seconds each so they may be heard. Press the pre-set button of the desired station or use any other tuning function to stop the scanning function. If you have already set the pre-set memories of that band to your favorite stations, activating the Auto-Store feature will erase those stations and enter the new strong stations. The feature is most useful when traveling in a new area where you are not familiar with the local stations.

bl STATION PRE-SET MEMORIES

To set any of the 6 pre-set memory buttons, use the following procedure:

1. Turn the unit on and select the desired band.
2. Select the first station to be pre-set using the Manual Up/Down **6** or Automatic Seek **7** Tuning functions.
3. Press the pre-set button to be set and continue to hold the button in. The volume will momentarily mute and then return and the pre-set number will appear on the display panel. The station is now set into the memory of that pre-set button and can be re-called by momentarily pressing the button.
4. Repeat the above procedure for the remaining 5 pre-sets on the band in use and for the other 4 bands of the unit.

bm LIQUID CRYSTAL DISPLAY PANEL

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

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

bn CASSETTE DOOR

Hold the cassette with the exposed tape edge to the right, and insert into the tape door. Depress fully until the cassette is engaged and begins playing. When the cassette reaches the end of play, the unit will automatically change over to radio operation.

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

bo FAST-FORWARD/EJECT BUTTON

This button performs two functions. To eject a cassette, simply depress the button fully then release. The cassette will eject and radio operation will resume.

To fast-forward the tape, depress the button half-way in to the locked position. To stop fast-forward and resume normal tape playback, depress the button slightly and release. Do not press fully in or the cassette will be ejected.

NOTE: Never leave a cassette engaged in the player when not in use. Doing so can cause damage to the cassette and/or mechanism of the unit. Always press the eject button and remove the cassette before leaving the vehicle.

bp CD/AUXILIARY INPUT SELECTOR (CD)

An auxiliary input jack is provided on the rear of this unit to accept the audio from an additional source such as a portable CD player. Connect the audio output from the source unit to the cable at the rear of the chassis using an appropriate audio patch cable (available at most radio supply stores). To select play of the source connected to the input jack, press the CD/Auxiliary Input Selector button. The indication "Cd" will appear on the display panel and the input connected to the unit will now operate through the audio system of the radio. Use the volume, balance and tone controls of the radio to adjust the sound as desired.

bq TIME/FREQUENCY SELECTOR (T/F)

During radio or CD/Auxiliary Input operation, press this button to call the time display on the incorporated quartz clock. Pressing the button again or activating any tuning function (during radio operation) will return to frequency or "Cd" display.

During tape operation, the time display will always be shown.

SETTING THE CLOCK

1. Switch the vehicle ignition "on" and radio "off" (time display will show on the LCD panel).
2. Press and hold the Time/Frequency Selector (T/F) **bq** button. At the same time, turn the Manual Tuning Control **6** to the left to adjust the hours (including "AM" or "PM" indication) or to the right to adjust the minutes.
3. After setting the correct time, release the Time/Frequency Selector.

SPECIFICATIONS

Size:	7" W x 2" H x 5 1/2" D 178 mm x 50 mm x 140 mm
Operating Voltage:	12 volts DC, negative ground
Output Power:	14 watts maximum (7 watts x 2 channels)
Output Wiring:	Common-ground type design for 4 speaker use. May also be used with 2 speakers.
Output Impedance:	Compatible with 4-8 ohm speakers
Tuning Range:	AM: 530 - 1,710 KHz. (10 KHz. step) FM: 87.5 - 107.9 MHz. (200 KHz. step)
Sensitivity:	AM: 20 uv. FM: 1.5 uv.
FM Stereo Separation:	30 dB
Tape Frequency Response:	50-10,000 Hz.
Tape S/N Ratio:	50 dB
Wow & Flutter:	0.25% WRMS

*Specifications are subject to change without notice.

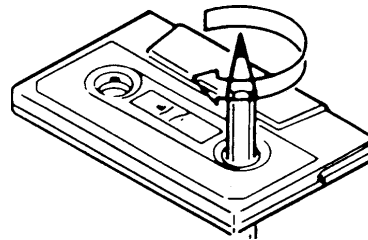
CARE AND MAINTENANCE

The radio portion of your new sound system does not require any maintenance. We recommend you keep this manual for future reference 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).





12 MONTH LIMITED WARRANTY

Applies to automotive radios, radio/tape players, radio/CD players, CD changers, power amplifiers, equalizers and accessories.

AUDIOVOX CORPORATION (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to an approved warranty station or the Company at the address shown below.

This Warranty does not extend to the elimination of externally generated static or noise, to correction of antenna problems, to costs incurred for installation, removal or reinstallation of the product, or to damage to tapes, compact discs, speakers, accessories, or vehicle electrical systems.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 30 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

U.S.A. : AUDIOVOX CORPORATION, 150 MARCUS BLVD., HAUPPAUGE, NEW YORK 11788 1-800-645-4994

CANADA : CALL 1-800-645-4994 FOR LOCATION OF WARRANTY STATION SERVICING YOUR AREA

AUSTRALIA : AUDIOVOX PACIFIC PTY LTD., DOYLE AVENUE, UNANDERRA, NSW 2526 (042) 718-555

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