

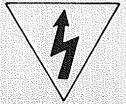
Operating Instructions

THE CARVER RECEIVER 900

**WARNING**  
 TO PREVENT FIRE OR SHOCK HAZARD, DO NOT  
 EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.

**ATTENTION:** POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR OU UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE

<b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,          DO NOT REMOVE COVER (OR BACK)          NO USER-SERVICEABLE PARTS INSIDE          REFER SERVICING TO QUALIFIED SERVICE PERSONNEL</b>		
	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK</b> <b>DO NOT OPEN</b>	

# CARVER RECEIVER 900

POWERFUL — MUSICAL — ACCURATE

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### CAUTION

To prevent shock hazard, electrical fires, and damage to the equipment, do NOT plug the receiver into any other power than a nominal 110VAC, 60Hz outlet. Do not expose this unit to moisture or rain. If the unit accidentally gets wet, disconnect the AC power cord until the unit is thoroughly dry, inside and out. Before changing any connections, power the receiver off and power off any other units that are in the system.

Do not remove the top or bottom covers with the power cord plugged in. There are no user-serviceable parts or adjustments inside. Unauthorized servicing may void the warranty.

Serial No. 50602429 H

Date Purchased 12-6-85

Store Name and Address

Sound Shop  
528 South Tejan CS, CO. 80903

## THE CARVER RECEIVER 900

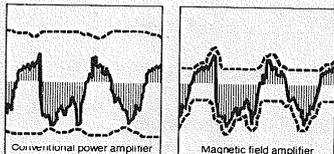
Redefines your expectations of receiver performance with the power you need for Compact Discs plus virtually noise-free *stereo* FM reception. A receiver with astonishing performance incorporating two highly significant technological breakthroughs: Bob Carver's Magnetic Field Power Amplifier and his Asymmetrical Charge Coupled FM Detector.

### Essential Power

Your system needs an abundance of power to reproduce, without distortion, the dynamic range of music on Compact Discs and fine analog recordings.

The Magnetic Field Amplifier in your CARVER Receiver gives you 90 watts per channel\* of *pure*, clean power with superbly defined, high fidelity reproduction.

The Magnetic Field Amplifier produces large amounts of power (absolutely necessary for the accurate reproduction of music at realistic listening levels) without the need for heavy heat sinks, massive transformers, and enormous power capacitors required by conventional amplifier design.



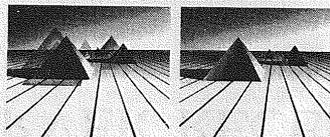
Solid line: audio output signal. Broken line: power supply voltage. Shaded area: wasted power. Vertical lines: power to speakers.

Unlike conventional amplifiers which produce a constant, high voltage level at all times, irrespective of the demands of the ever-changing audio signal (even when there is no audio signal in the circuit at all!), the Magnetic Field Amplifier's power supply is signal responsive. Highly efficient, it produces *exactly and only* the power needed to carry the signal with complete accuracy and fidelity.

The 90 watts-per-channel\* CARVER Receiver 900 is about the same size and weight of conventional receivers having merely 30 watts per channel!

### Noise-Free Reception

The AM-FM CARVER Receiver 900 gives you FM *stereo* performance unmatched by that of any other receiver.



Reflected multi-path signals cause audible distortion.

Asymmetrical Charge Coupled FM Detector gives your ears a true sonic image.

As it is transmitted from the station, the stereo FM signal is extremely vulnerable to distortion, noise, hiss and multipath interference.

However, when you engage CARVER's Asymmetrical Charge Coupled FM Detector circuit, the stereo signal arrives at your ears virtually noise-free. You hear fully separated stereo with space, depth and ambience!

The Asymmetrical Charge Coupled FM Detector was first introduced in CARVER's TX-11 Stereo Tuner, receiving unparalleled critical acclaim:

*"A major advance . . . Its noise reduction for stereo reception ranged from appreciable to tremendous. It makes the majority of stereo signals sound virtually as quiet as mono signals, yet it does not dilute the stereo effect."*

Julian D. Hirsch, STEREO REVIEW  
(December, 1982)

*"Separation was still there; only the background noise has been diminished, and with it, much of the sibilance and hissy edginess so characteristic of multipath interference."*

Leonard Feldman, AUDIO  
(December, 1982)

*"What distinguishes the TX-11 is its ability to pull clean, noise-free sound out of weak or multipath ridden signals that would have you lunging for the mono switch on any other tuner we know of."*

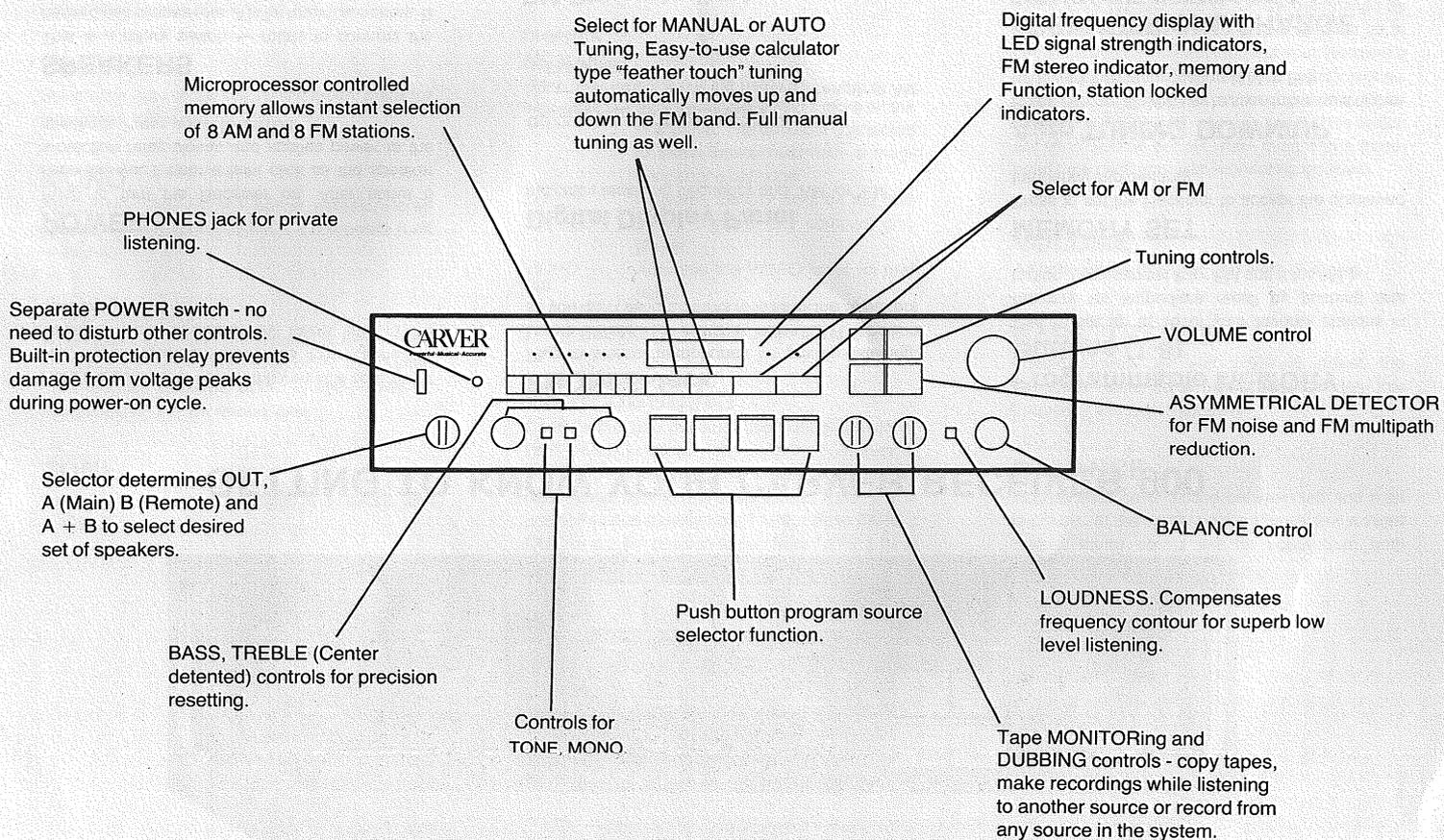
HIGH FIDELITY (January, 1983)

The CARVER Receiver 900 has been designed for fidelity, accuracy and musicality.

\*90 watts per channel RMS into 8 ohms, 20 Hz to 20 kHz with no more than 0.15% total harmonic distortion.

**CARVER Powerful • Musical • Accurate**

## Features and Functions





## GETTING TO KNOW YOUR CARVER RECEIVER 900

Here's a quick overview of the versatile controls of your new Receiver. Complete instructions for installation and operation will follow later in the Manual.

### POWER

Push to turn the Receiver on. After about 5 seconds, you'll hear a faint click as the speaker protection relay closes and applies power to the speakers. Press again to turn off.

### SPEAKERS

This is a rotary switch — rotate to connect the desired pair of speakers. A is for "main" speakers. B is for "remote" speakers. A + B is for both "main" and "remote" speakers. When using headphones, you'll probably want to set "OUT" position for private listening.

### PHONES Jack

Plug in stereo headphones for private listening. Leave SPEAKERS switches in the "OUT" position so you don't disturb others (this turns the Speakers off).

### Digital Display Panel

Indicates receiving frequency and "AM" or "FM".

### SIGNAL STRENGTH

Six amber LED's show the relative strength of AM or FM signal.

### FM Stereo Indicator

This LED lights up if the MONO button is set for stereo (out) and you are tuned to a stereo FM signal.

### Programmable MEMORY Buttons (1-8)

Use to set up to 16 of your favorite stations in memory for immediate recall by pushing one button. (You can set 8 for FM and 8 for AM.)

### MEMORY SET

Press to set the Receiver to accept the displayed frequency into memory.

### Auto TUNING DOWN/UP

Press UP (or DOWN) key to scan to the next higher (or lower) frequency station (AM or FM).

### ASSYMETRICAL CHARGE COUPLED DETECTOR

When engaged, these controls will virtually eliminate noise and multipath from weak FM stereo signals.

## MEMORY SET LED

Shows the Receiver is ready to memorize a station frequency after you press MEMORY SET button.

## TUNING

Selects the Auto or Manual Tuning mode: press for the desired mode.

## MONO

PRESSING THE MONO button defeats stereo operation, the resulting signal is a composite (Left + Right).

## LOUDNESS

When listening at low volume settings, press in the LOUDNESS button. This overcomes the human ear's reduced sensitivity at low listening levels by compensating the low frequencies.

## STONE

Pressing this button engages the BASS and TREBLE controls.

## Source Selector Function Push-Buttons

Determine the desired program source.

AM: Activates the AM tuner.

FM: Activates the FM tuner.

PHONO: Activates the PHONO 1 jacks on the rear panel. The turntable connected to these inputs must have a magnetic phono cartridge.

CD: Activates the CD jacks on the rear panel. Connect any compact disc player.

VIDEO: Activates the VIDEO jacks on rear panel.

## TAPE DUBBING

Controls the tape dubbing (duplicating) functions. With switch in center (off) position, both sets of TAPE OUT jacks will carry the same signals as determined by the Function switch. Use 1  $\blacktriangleright$  2 position to dub directly from TAPE 1 IN to TAPE 2 OUT, and 2  $\blacktriangleright$  1 position to dub from TAPE 2 IN to TAPE 1 OUT.

## TAPE MONITOR

Lets you monitor signals connected to TAPE 1, TAPE 2, or the program SOURCE determined by the FUNCTION Push-buttons. Switch must be in center position if you wish to hear your Receiver's sound (AM, FM, PHONO, etc.). To monitor signals connected to TAPE 1 IN, use position 1; for monitoring TAPE 2 IN, use position 2. This switch will be of special benefit when used with a three-head tape deck (one with monitoring facilities).

## VOLUME

Adjusts volume of sound from both channels.

## BASS, TREBLE

These controls let you precisely adjust the frequency response in two different ranges: low frequency and high frequency.

## BALANCE

Adjusts balance of sound between left and right channels. At the center position (you'll feel a slight "catch" there) sound will be equal from both channels.