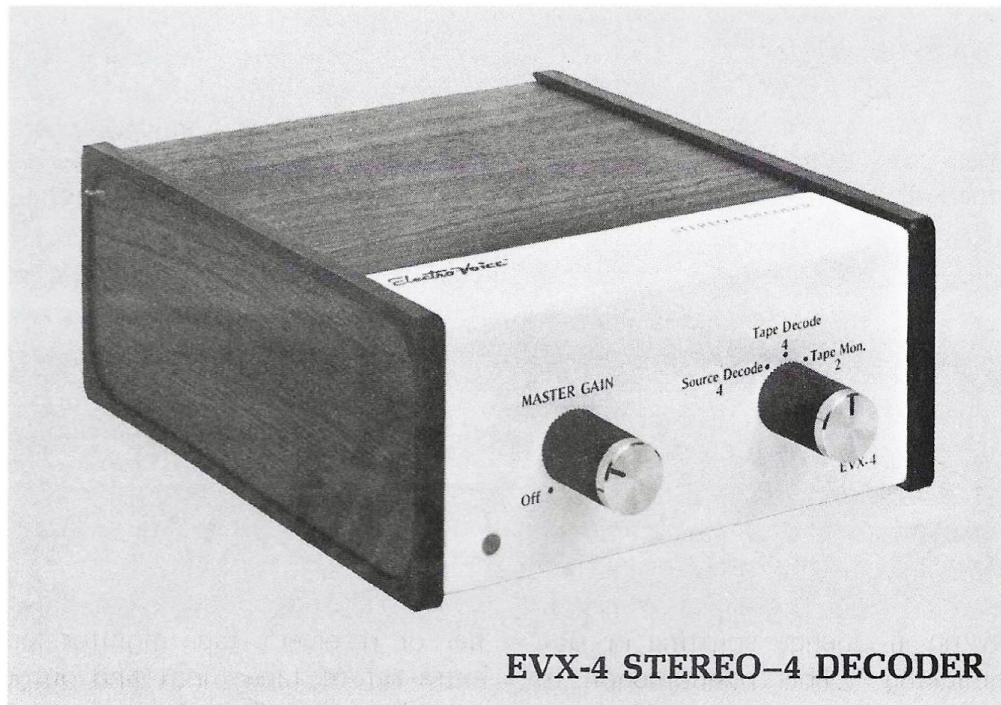


Electro-Voice®

a GULTON subsidiary

**Fully Compatible
Broadcast, Recording and
Receiving System for
FOUR-CHANNEL STEREO**



THE ELECTRO-VOICE STEREO-4 *

COMPATIBLE SYSTEM FOR FOUR-CHANNEL STEREO

A new system enabling broadcasting and recording of four-channel stereo sound using existing two-channel equipment is now being demonstrated by Electro-Voice, Inc. Named "Electro-Voice Stereo-4," the system requires only a simple "encoder" at the broadcast or recording source and an inexpensive "decoder" in the home.

The encoded signal is completely compatible with existing equipment and techniques. It will be received and reproduced as regular two-channel sound in existing standard home stereo systems where a decoder is not used.

IN THE HOME

The home decoder being shown by Electro-Voice is a small unit that plugs into an existing stereo system as easily as a tape recorder. The suggested retail price of the decoder is \$59.95. Any true four-channel sound system like this, of course, requires four amplifier channels and four speakers (two more than present stereo systems). But with the E-V system, no change is needed in stereo tuners, record players, or tape machines.

Use of the Stereo-4 decoder in the home will also expand any existing two-channel source material (FM broadcast, records, or tape) to four independent channels of sound. Records and tape now owned do not become obsolete, and two-channel stereo FM broadcasts, even if not encoded, are greatly enhanced. Four different sound channels are created from two-channel sources with no frequency splitting or dynamic "gimmicking." This phenomenon is possible because multi-channel techniques are usually employed in original recordings. To some extent, the Stereo-4 decoder is able to recreate separate information from those original channels which, even though mixed down to two channels, is available on the recording.

IMPORTANCE TO BROADCASTERS

The Electro-Voice system allows broadcasters to be on the air immediately with four-channel stereo information, as existing stereo transmitting equipment is used. Four-channel program material, as from a tape player, is fed through the E-V encoder and then to the standard multiplex generator and FM transmitter. The encoding process causes negligible distortion, noise, phase shift, or other signal degradation, requires no change in bandwidth, and is fully compatible with current two-channel receivers. The system, therefore, requires no approval or other action by the F.C.C. It is claimed that this system is much superior in results to any previously announced matrixing system.

RECORD APPLICATIONS

Records, after signal encoding, are cut and manufactured in the identical way and with the same equipment now used for regular two-channel discs. No additional frequency-range requirements are placed on either manufacturing or playback equipment, and record life is unaffected. Encoded records may be reproduced in the home using existing equipment in mono or two-channel stereo. The E-V decoder will process the four-channel information using any presently-owned stereo cartridge and turntable.

EASILY INSTALLED

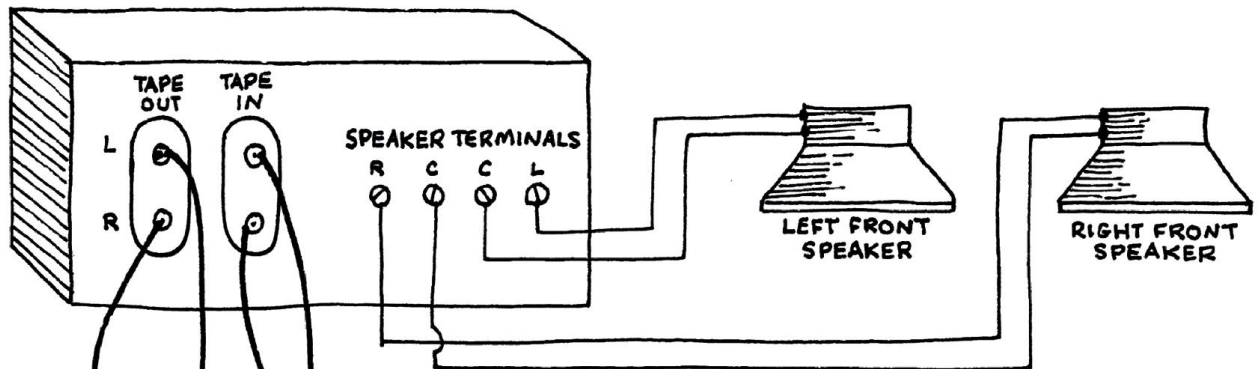
The home decoder, Model EVX-4, is connected into a stereo system between the preamp and amplifier or by using the amplifier or receiver's tape monitor facilities. An extra set of tape input and output jacks is provided on the EVX-4 decoder.

The Stereo-4 system is a joint development of Electro-Voice, consulting engineer Leonard Feldman and Industrial Patent Development Corporation. U.S. and foreign patents have been applied for.

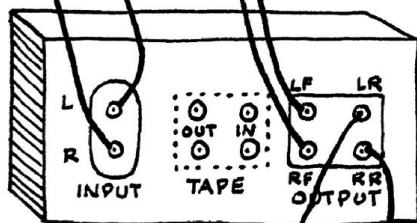
* Electro-Voice Trademark

CONNECTING EVX-4 DECODER INTO EXISTING STEREO SYSTEM

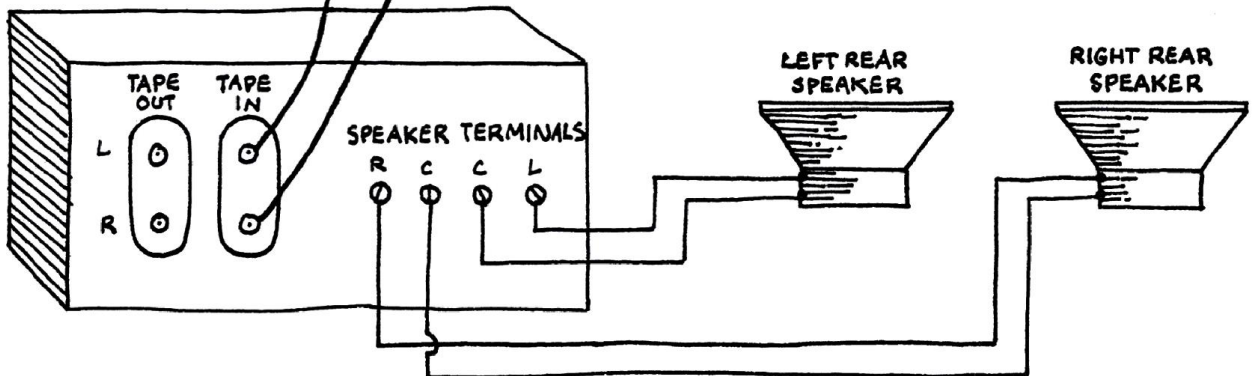
**EXISTING
STEREO
AMPLIFIER
OR
RECEIVER**



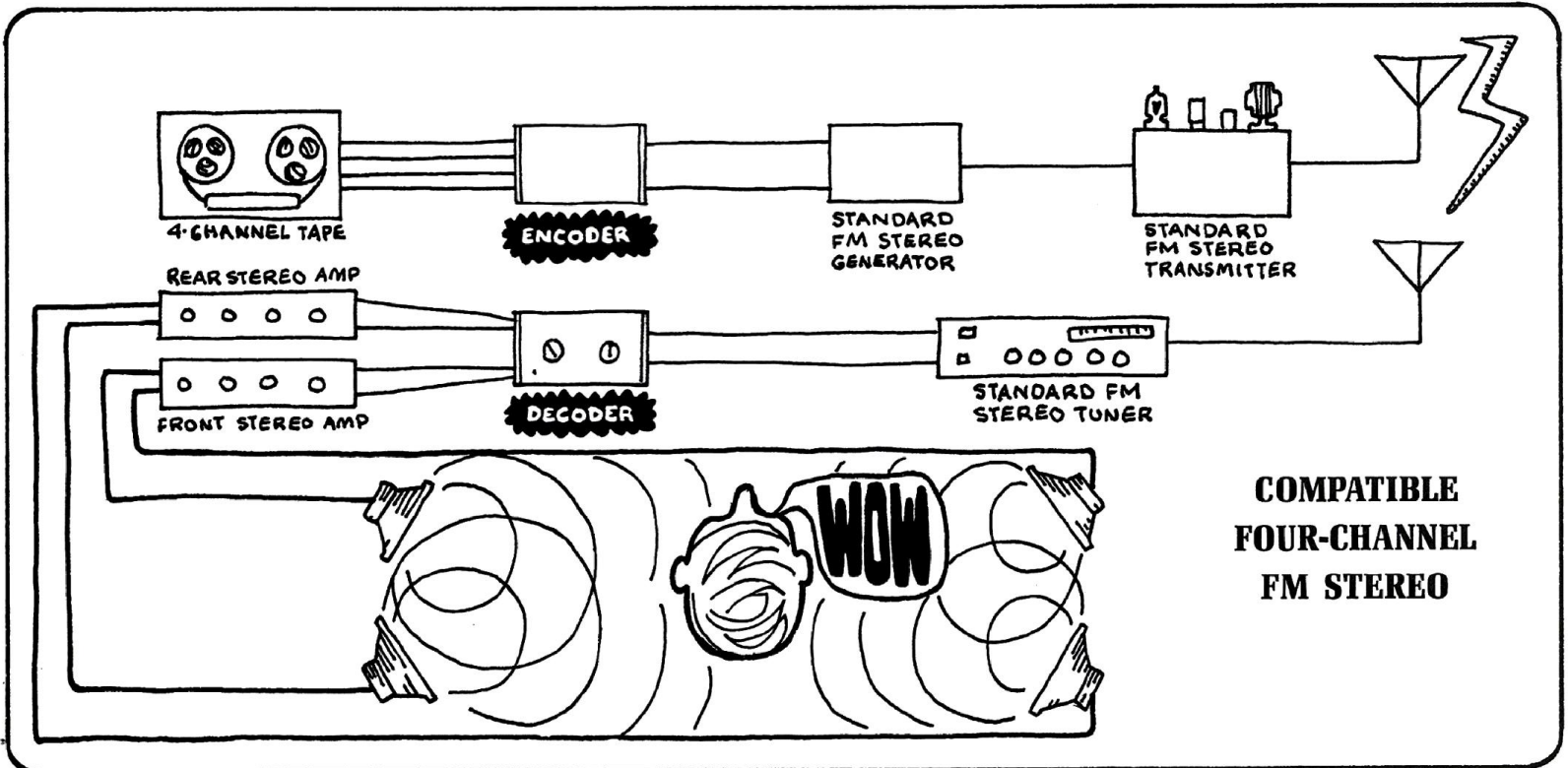
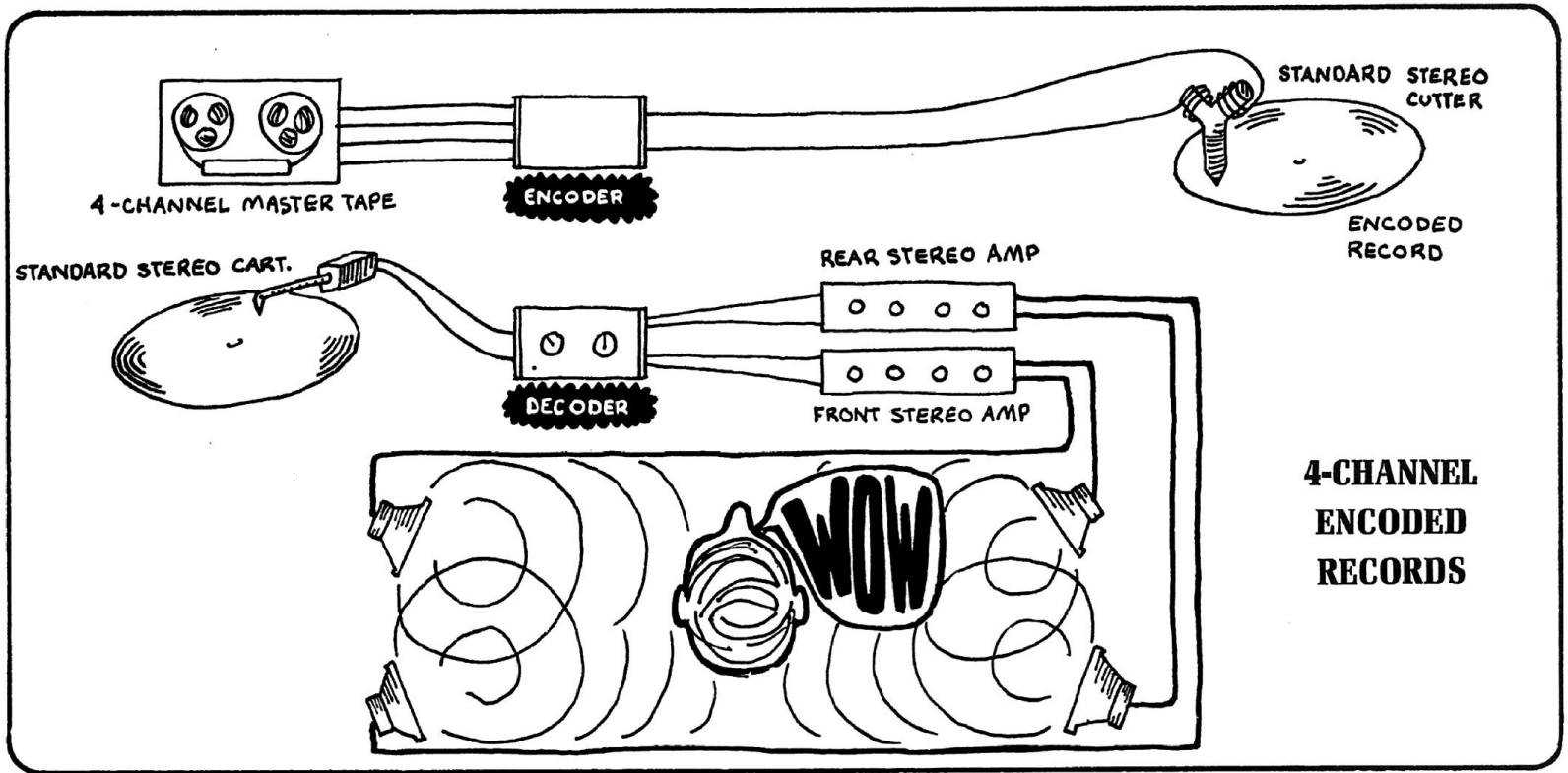
**EVX-4
DECODER**



**ADDITIONAL
STEREO
AMPLIFIER**



ELECTRO-VOICE STEREO-4



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