

THE FISHER

202-T

STEREO FM-AM TUNER
AND MASTER AUDIO CONTROL





For those who require the absolute

THE FISHER 202-T

Stereo

FM TUNER • AM TUNER
MASTER AUDIO CONTROL

THE FISHER 202-T was designed for those who cannot be content with less than the best. On a single chassis, you will find the world's three foremost components—an FM tuner and an AM tuner designed to exacting laboratory standards, matched to a Master Audio Control of unparalleled versatility—28 controls for every stereo and monophonic program source and application, including multiplex reception with the FISHER MPX-20 Multiplex Adaptor (fits right on the 202-T chassis,) PLUS Center Channel facilities, to augment the stereo sound pattern with a third amplifier and speaker system! In addition, the 202-T can also be used to achieve *perfect stereo balance by remote control*, with the FISHER RK-1. The following specifications complete the story on the 202-T, the most exciting stereophonic instrument of its type.

OUTSTANDING FEATURES

THE FM TUNER

Circuit Four IF stages with extra wide band-pass, including a dual dynamic limiter, two short time-constant grid-leak limiters, and a wide-band ratio detector (completely free of hum and distortion) insure perfect, noise-free listening.

Sensitivity Effective limiting below 1 microvolt.

Signal-to-Noise Ratio 20 db for 0.8 microvolts (measured with 400 cycle modulation at 75-Kc deviation). 60 db for 100 microvolt input. (IHFM rating: 1.5 microvolts.) FM Noise is only 0.1% of full modulation.

Harmonic Distortion Inaudible. Less than 0.5% at full modulation.

Capture Ratio A remarkably low 2.3 db.

THE AM TUNER

Circuit A tuned RF stage provides high gain with low noise. A temperature-compensated converter stage has been included for unmatched stability. Two IF stages with three IF transformers supply high gain, with two positions of bandwidth selected at the front panel. Delayed AVC gives constant signal level; the distortion-free detector handles high-modulation signals. A tuned

10Kc sharp cut-off filter is included to suppress adjacent channel interference.

Sensitivity 5 microvolts at antenna terminals for full rated output of 2 volts at preamplifier.

Antenna Built-in, rotatable Ferrite Loop for strong, low noise signals.

MASTER AUDIO CONTROL This section consists of two fully independent preamplification-equalization channels. Specifications for each channel are as follows:

Frequency Response 20 to 20,000 cps \pm 1/2 db.

Hum and Noise Phono: 60 db below rated output of 2 volts. Aux: 80 db below rated output of 2 volts.

Sensitivity and Distortion Magnetic phono: 2.7 mv input for 2 volts output, with only 0.2% distortion. Ceramic phono: 40 mv input for 2 volts output, with only 0.2% distortion. Tape: 1.6 mv input for 2 volts output, with only 0.2% distortion.

Channel Separation Better than 45 db.

Balance Control Range +7 db to more than -60 db.

Max. Input Capability (for less than 1% distortion): Aux—3 volts; phono—200 mv; tape head—150 mv.

Low Frequency Filter 20 db rejection at 20 cps. (Less than 3 db at 50 cps.)

High Frequency Filter 12 db rejection at 10-Kc. (Less than 3 db at 5-Kc.)

Inputs A total of twelve. Tape Head, Phono Ceramic, Phono Magnetic, Aux, Tape Recorder and Monitor (two of each.)

Outputs A total of five. (2) Recorder, (2) Main, and (1) Center Channel.

FRONT PANEL CONTROLS Total of nineteen.

Master Volume Control Adjusts volume simultaneously for both channels, to assure perfect tracking.

AC-Off Switch Combined with the Master Volume Control.

Loudness Switch Provides compensation for normal loss of hearing efficiency at both ends of the audio spectrum.

FM and AM Tuning Controls Separate MICRORAY Tuning Indicators are provided for fast and simple tuning with pinpoint accuracy. Designed for maximum sensitivity to weak signals.

Muting Switch Suppresses inter-station noise when tuning from one FM station to another.

AM Broad-Sharp Switch For broad-band or highly-selective AM tuning. Required for stereo.

Selector Switch Total of five positions: Mono-Phono, Reverse, Stereo, A (FM), and B (AM.)

Bass Controls Separate dual-channel types, for independent or simultaneous regulation of bass tones in each channel.

Treble Controls Separate dual-channel types, for independent or simultaneous regulation of treble tones in each channel.

High and Low Filter Switches Designed to eliminate record scratch, rumble and other high and low frequency forms of interference.

Phase Switch Permits phase reversal of Channel A to correct improperly phased (connected) speakers or program material.

Tape Monitor-Playback Switch Permits the user to listen to material being recorded with three-head tape recorder.

Balance Control Makes possible the adjustment of both speakers for equal output (important for perfect stereophonic effect.)

Center Channel Volume Control Adjusts the volume level of a third amplifier and speaker system connected to the Center Channel output jack.

REAR PANEL CONTROLS Total of nine.

Level Sets Total of seven: MPX Stereo, AM Level, Phono Level A, Phono Level B, Tape Recorder Level A, Tape Recorder Level B, Muting Level.

FM-AUX SWITCH For connecting an auxiliary FM Tuner.

LOCAL-DISTANCE SWITCH Designed to prevent overloading of the input circuit.

AUDIO CIRCUIT Total of fourteen stages (seven for each channel.) Two phono equalization and preamplification stages, one low filter and amplifier, one remote control output (cathode follower,) one tone control, one high filter and amplifier, one output stage (cathode follower.)

TUBE COMPLEMENT Twenty tubes plus four germanium diodes: four ECC83/12AX7/7025, three ECC81/12AT7, two 6BJ6, one 6BE6, four 6AU6, two EM84/6FG6, one EBF89, one ECC88, one ECC85, one EZ81/6CA4, two IN541, two IN295.

POWER REQUIREMENTS 105-120 volts at 50-60 cycles; 95 watts consumption.

DIMENSIONS AND WEIGHT 4 3/4" high, 15 1/8" wide, 12 7/8" deep. Shipping weight: 25 lbs.; net weight: 22 lbs.

CABINET TA-6, vinyl-covered metal cabinet.

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