

# specifications

FOR THE



## STEREO TUNER

MODEL AJ-41



### SPECIFICATIONS

#### FM SECTION

Tuning Range . . . . .	88 to 108 megacycles.
Intermediate Frequency (IF) . . . . .	10.7 megacycles.
Antenna . . . . .	300 $\Omega$ balanced.
Output Impedance (Cathode Follower) . . . . .	Variable to 4000 $\Omega$ .
Output Voltage . . . . .	Nominal .5 volt with 3 $\mu$ v, 30% modulation in.
Quieting Sensitivity. . . . .	2 $\mu$ v for 20 db of quieting. 3 $\mu$ v for 30 db of quieting. 20 $\mu$ v for full quieting, 40 db.
Audio Frequency Response. . . . .	$\pm$ 2 db from 20 to 20,000 cps.
Maximum Deviation Sensitivity . . . . .	5 $\mu$ v, 400 cps, 100% modulation in. (Minimum signal with 100% modulation that will pass through the tuner without exceeding rated distortion).
Deviation Sensitivity . . . . .	20 kc (1100 $\mu$ v in). (Minimum deviation required to produce rated output).
Harmonic Distortion . . . . .	Less than 1% (1100 $\mu$ v, 400 cps, 100% modulation).
Intermodulation Distortion . . . . .	Less than 1%.
Image Ratio. . . . .	40 db.
Capture Ratio. . . . .	12 db.
AFC Correction Factor . . . . .	12 db.
Amplitude Modulation Suppression. . . . .	25 db.
Hum and Noise . . . . .	40 db below 30% modulation (20 $\mu$ v in).

#### FM STEREO CONVERTER SECTION

Audio Frequency Response. . . . .	$\pm$ 2 db from 50 to 15,000 cps.
Subcarrier Bandpass. . . . .	$\pm$ 3 db from 23,000 to 53,000 cps.
Channel Separation. . . . .	30 db at 1 kc. 25 db at 10 kc.
Hum and Noise . . . . .	-55 db relative to 1 volt rms output.
Output Impedance (Cathode Follower) . . . . .	Variable to 4000 $\Omega$ , each channel.
Outputs . . . . .	LEFT CHANNEL-RIGHT CHANNEL.

## AM SECTION

Tuning Range . . . . .	535 to 1620 kc.
Sensitivity, Normal Position . . . . . (At antenna terminals through standard IRE dummy antenna. Reference output: .1 volt rms. )	1400 kc 3 $\mu$ v. 1000 kc 4 $\mu$ v. 600 kc 8 $\mu$ v.
Sensitivity Change, Normal to Maximum . . . . .	-5 db.
Intermediate Frequency (IF) . . . . .	455 kc.
Antenna . . . . .	Built-in rod, with provisions for external straight wire.
Output Impedance (Cathode Follower) . . . . .	Variable to 4000 $\Omega$ .
Output Voltage . . . . .	Nominal .3 volt.
IF Band Width . . . . .	Normal: 14 kc (6 db down). Maximum: 20 kc (6 db down).
Image Ratio . . . . .	1400 kc, 50 db. 600 kc, 75 db.
Harmonic Distortion . . . . .	Less than 1%.
Hum and Noise . . . . .	35 db below 30% modulation (1000 kc with 100 $\mu$ v in).
IF Rejection Ratio . . . . .	1400 kc, 42 db. 600 kc, 38 db.
10 KC Rejection . . . . .	40 db.

## GENERAL

Tube Complement . . . . .	5 - 6AU6 2 - 6BA6 1 - 6BS8 or 6BZ7 1 - 6AB4 2 - 12AT7 1 - 6AL5 1 - 6BE6 2 - 12AU7 1 - 12BH7
Front Panel Controls . . . . .	POWER switch, AFC control. FM STEREO PHASE. AM FIDELITY switch, FM SQUELCH control. MODE SELECTOR. AM TUNING. FM TUNING. Individual AM and FM TUNING METERS.
Power Supply . . . . .	Transformer-operated, silicon rectifiers.
Power Requirements . . . . .	117 V, 50/60 cps, 100 watts.
Dimensions-	
Overall . . . . .	5-1/4" high x 15-1/2" wide x 14-1/4" deep.
Panel Mounting . . . . .	Cutout 4-1/4" x 14-1/2"; depth 12-7/8".
Net Weight . . . . .	18-1/2 lbs.
Shipping Weight . . . . .	22 lbs.