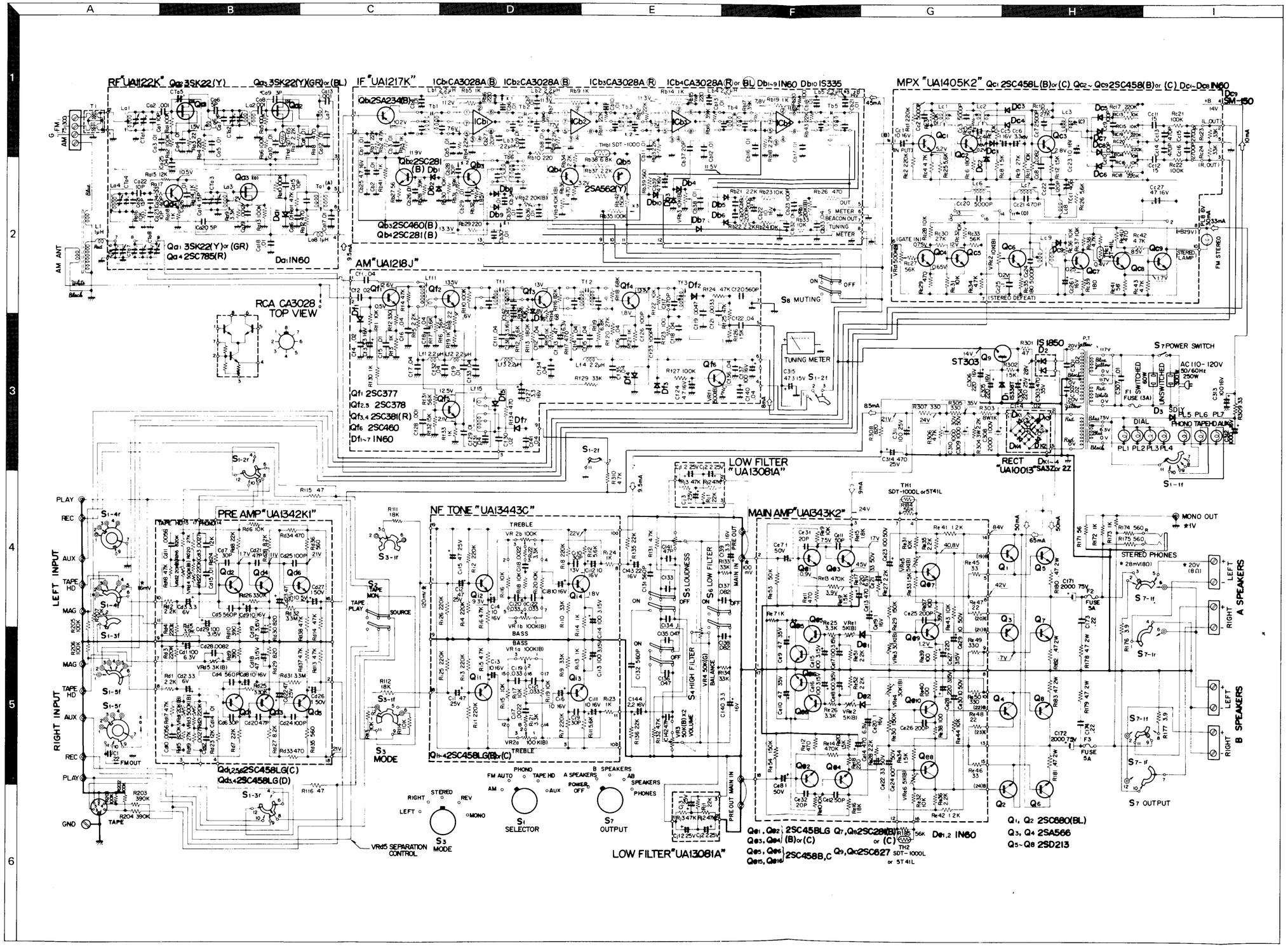
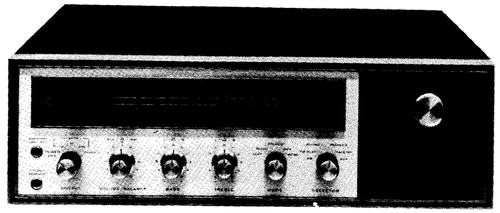
KENWOOD

SOLID STATE AM-FM STEREO RECEIVER

TK-140X





SPECIFICATIONS

AMPLIFIER SECTION

OUTPUT POWER:	250 watts ±1dB at 4 ohms 210 watts ±1 dB at 8 ohms
DYNAMIC POWER (IHF):	200 watts at 4 ohms 170 watts at 8 ohms
CONTINUOUS POWER:	
EACH CHANNEL DRIVEN:	80 watts/80 watts at 4 ohms 60 watts/60 watts at 8 ohms
BOTH CHANNELS DRIVEN:	53 watts/53 watts at 8 ohms
DISTORTION:	
HARMONIC DISTORTION:	Less than .5% at rated output
INTERMODULATION DISTORTION:	Less than .5% at rated output Less than .2% at −3dB rated output
FREQUENCY RESPONSE:	
MAIN INPUT:	8 Hz to 120,000 Hz ±1.5 dB
AUX INPUT:	20 Hz to 30,000 Hz ±1.5 dB
POWER BANDWIDTH (IHF):	15 Hz to 30,000 Hz
CHANNEL SEPARATION:	Better than 50 dB
INPUT SENSITIVITY & INPUT IMPEDANCE:	
(For rated output):	MAG 1.2. . . 2mV (50K ohms) TAPE HD. . . 2.2 mV (100K ohms) AUX. . . 160 mV (100K ohms) TAPE PLAY. . (Pin Jack) 160mV (100K ohms) (R.P. Connector) 160 mV (100K ohms)
RECORDING OUTPUT:	MAIN IN. . . 100 mV (100K ohms) (Pin Jack) 160 mV (Dubbing) 160 mV (R.P. Connector) 32 mV
MAXIMUM INPUT SIGNAL: (at MAG Input)	180 mV (P-P 1,000 Hz)
HUM AND NOISE:	PHONO 1.2 (MAG) 65 dB
(Below rated output)	TAPE HD 63 dB AUX 75 dB TAPE PLAY 75 dB Noise at minimum volume control . . . Less than 1.5 mV at 8 ohms or .28 micro watts (83 dB)
DAMPING FACTOR:	28 at 8 ohms (output impedance of speaker is .286 ohms.)
SPEAKER IMPEDANCE:	4,8 and 16 ohms
BASS CONTROL:	±10 dB at 100 Hz
TREBLE CONTROL:	±10 dB at 10,000 Hz
HIGH FILTER:	3,000 Hz Cutoff
LOW FILTER:	200 Hz Cutoff
LOUDNESS CONTROL:	+10 dB at 100 Hz, +5 dB at 10kHz (at −30 dB)
OUTPUT SWITCH:	Power Off, A speakres, B speakers, A-B speakers and Phones
MODE SWITCH:	Left, Right, Stereo, Rev. & Mono
SELECTOR SWITCH:	AM, FM, PHONO, TAPE HD & AUX
KEYBOARD TYPE SWITCHES:	Loudness, Tape Monitor, Muting, Low Filter and High Filter
OUTPUTS:	2 pairs of stereo speaker terminals, Center channel output (low level), Pre-amp. output, Tape recording output, Head phone jack, AC outlet.

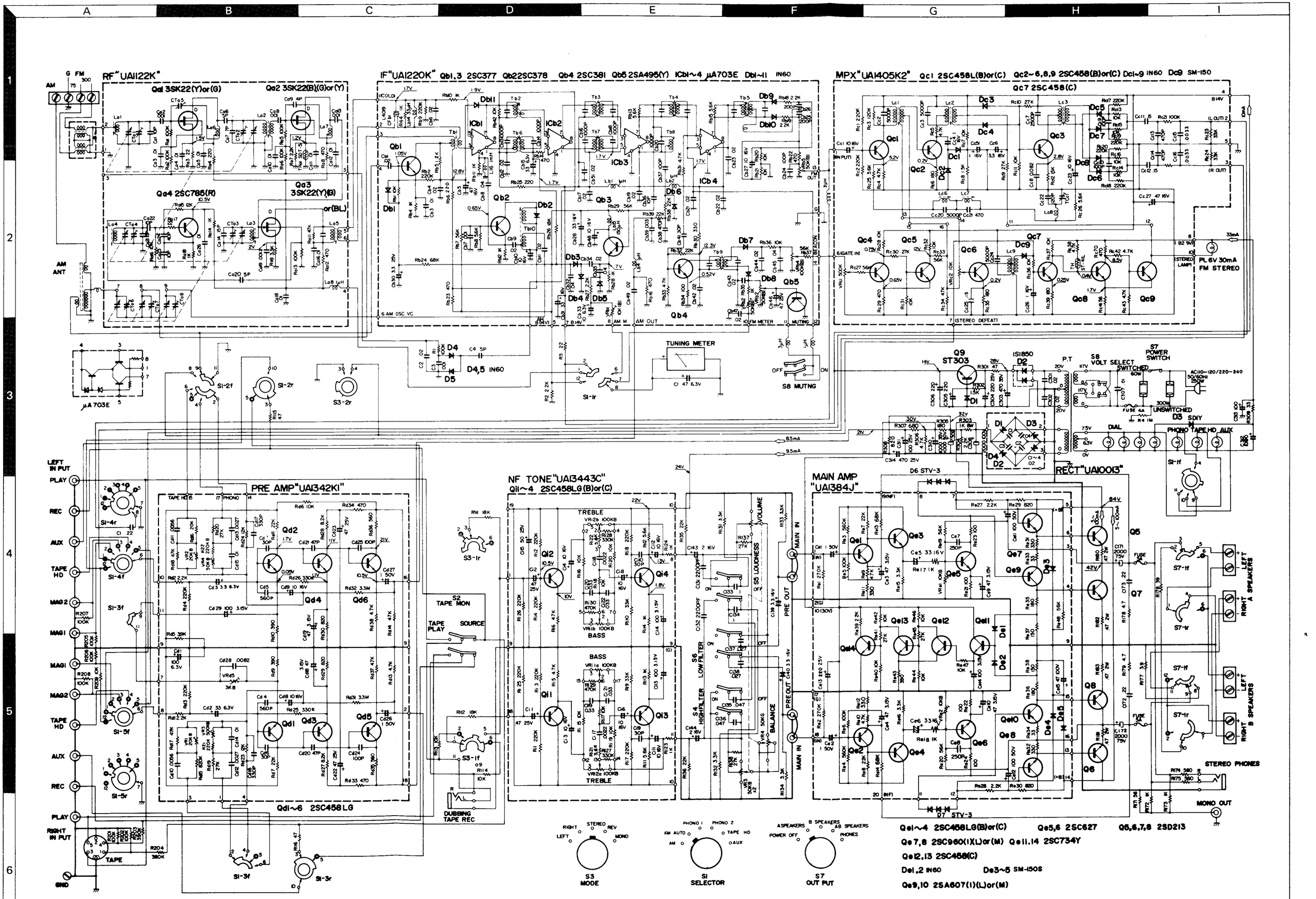
TUNER SECTION

FM:	
ANTENNA IMPEDANCE:	300 ohms balanced 75 ohms unbalanced
SENSITIVITY (IHF):	1.7 μV
HARMONIC DISTORTION:	Less than .5% 400 Hz 100% Mod.
SIGNAL TO NOISE RATIO:	Better than 65 dB
CAPTURE RATIO:	1.0 dB
IMAGE REJECTION:	Better than 100 dB
HARMONIC SPURIOUS RESPONSE:	Better than 100 dB
IF REJECTION:	Better than 100 dB
SELECTIVITY (Alt. channel):	45 dB
FM IF STAGE:	4 IC's (Integrated Circuits)
FM FRONT-END:	3 FET's, 4 gang tuning condenser
INTER STATION MUTING:	Keyboard switch
FM SPURIOUS RADIATION:	Less than 34 dB
AM:	
SENSITIVITY (IHF):	15μV at 1,000 kHz
IMAGE REJECTION:	90 dB at 1,000 kHz
SELECTIVITY:	Better than 25 dB

SPECIAL FEATURES:

IC's & Mechanical Filter IF Circuit, 3 FET's 4 Gang Tuning Condenser Super Sensitive Front-End Inter Station Muting Circuit, Heavy Fly-Wheel Tuning Dial, New Large Tuning Dial, New Large Tuning Meter, 300 ohms and 75 ohms Antenna Inputs, Unique Keyboard Type Control Switches. Power Transistor Protection Circuit Separate Pre-amp. Output and Main amp. Input, Illuminated Smoked Glass Dial, Low Filter and High Filter, Tape Monitor, Stereo Phone Jack. 2 Set of Speaker Systems. Dubbing Tape Recording Jack on Front Panel.

SEMICONDUCTORS:	4 IC's, 3 FET's 44 Transistors, 33 Diodes, 2 Thermisters.
POWER CONSUMPTION:	250 watts at full power. 34 watts at no signal.
DIMENSIONS:	16½" W, 5½" H, 12¾" D.
WEIGHT:	28.5 Lbs Net weight 33.0 Lbs Shipping weight


RF"UAI122K"
Qa1 3SK22(Y)or(G)
Qa2 3SK22(B)(G)or(Y)
Qa3 3SK22(Y)(G) or(BL)
Qa4 2SC785(R)
IF"UAI220K" Qb1,3 2SC377 Qb2 2SC378 Qb4 2SC381 Qb5 2SA495(Y) ICb1~4 μA703E Db1~11 IN60
MPX"UAI405K2" Qc1 2SC458L(B)or(C) Qc2~6,8,9 2SC458(B)or(C) Dc1~9 IN60 Dc9 SM-150
Qc7 2SC458(C)
PL 6V 30mA FM STEREO
TUNING METER
S8 MUTNG
S7 POWER SWITCH
S8 VOLT SELECT SWITCHED
RECT"UAI0013"
MAIN AMP "UAI384J"
NF TONE"UAI3443C"
Qi1~4 2SC458LG(B)or(C)
PRE AMP"UAI342KI"
Qd1~6 2SC458LG
S2 TAPE MON
TAPE PLAY
SOURCE
DUBBING TAPE REC
S3 MODE
S1 SELECTOR
S7 OUT PUT
Qe1~4 2SC458LG(B)or(C)
Qe5,6 2SC627
Qe7,8 2SC960(1)(L)or(M)
Qe11,14 2SC734Y
Qe12,13 2SC458(C)
De1,2 IN60
De3~5 SM-150S
Qe9,10 2SA607(1)(L)or(M)
Q5,6,7,8 2SD213
STEREO PHONES
MONO OUT
LEFT A SPEAKERS
RIGHT A SPEAKERS
LEFT B SPEAKERS
RIGHT B SPEAKERS