

General Information

1994

Chassis: C3

CRT: A59JMZ146X02(X) 25"

Remote Control:

23120267

Door Flap: 23425970

Main Power Button:

23443868

Matrix

Item	See Model
Service Adjustments	Toshiba 2145 DB
NICAM Diagram	Toshiba 2939 DB

Specifications

Input Power Rating	100 W, AC240V, 50Hz
Aerial Input Impedance	75 ohm unbalanced type for UHF
Receiving Channels	
PAL-I Standard	UHF 21 - 68
Intermediate Frequencies:	
Picture IF	39.5 MHz
Sound IF	33.5 MHz
Colour Sub-Carrier	35.07 MHz
Picture Tube	110 degree deflection (59cm)
Sound Output	10.0W x 2
Speakers	160mm x 40mm oval 2 pcs (Main), 100mm 2pcs (Hill Top)
Aux Terminals	21 pin socket, S-VIDEO, VIDEO/AUDIO INPUT sockets.
Features	Video Input of PAL/3.58n/4.43N, TELETEXT reception, NICAM Digital stereo system, OFF timer

Recommended Safety Parts

Item	Part No.	Description
C423	24095755	PF, 0.47mF, 200V
C440	24082349	PF, 7000pF, ±3%, 1500V
C463	24212222	CD, 2200pF, ±10%
C801, C804	24082318	PF, 0.1mF, ±20%, AC250V
C802, C803	24094656	CD, 2200pF, ±20%, AC400V
F801	23144898	Fuse, 3.15A
F803	23144874	Fuse, 0.8A
L462		DY, Supplied with V901
L901	23200202	Coil, Degaussing, TSB-2329AR
P801	23176934	Power Cord
Q404	A6872801	Transistor, 2SD2253
Q826	A864108	IC, Photo Coupler, TLP621(GR-LF)
Q827	A6907751	IC, S1854
R327	24339569	OMF, 5.6 ohm, 2W
R446	24533151	FR, 150 ohm, 2W
R448	24338338	OMF, 0.33 ohm, 1W
R801	24004914	Metal Glazed Resistor, 5.6M ohm, 1/2W
R878	24531560	FR, 56 ohm, 1/2W
R884	24531120	FR, 12 ohm, 1/2W
R890	24000875	PTC Thermistor, 18 ohm, ±20%, 290V
R920	24000907	FR, 3.9 ohm, 1W
RD01 (U903)	24000211	FR, 15 ohm, 1/2W

Service Adjustments

Safety Instructions

X-Ray Radiation Precaution

1: The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as a result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 26.5kV at zero beam current (minimum brightness) operating at 240v a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 29.0 kV. When checking the E.H.T. use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.

2: The only source of X-Ray radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.

3: Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.

For continued safety, replacement component should only be made after referring to the Product Safety Notice.

Safety Precaution

1: This receiver has a nominal working E.H.T. voltage of 24.5kV. Extreme caution should be exercised when working on the receiver with the back removed. Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working

on high voltage equipment. When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap. The C.R.T., if broken, will violently expel glass fragments. Use shatterproof goggles and take extreme care while handling. Do not hold the C.R.T. by the neck as this is a very dangerous practice.

2: It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from the factory.

3: A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.

4: Replace blown fuses within the receiver with the fuse specified in the parts list.

5: When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.

6: Keep wires away from high temperature components.

Product Safety Notice

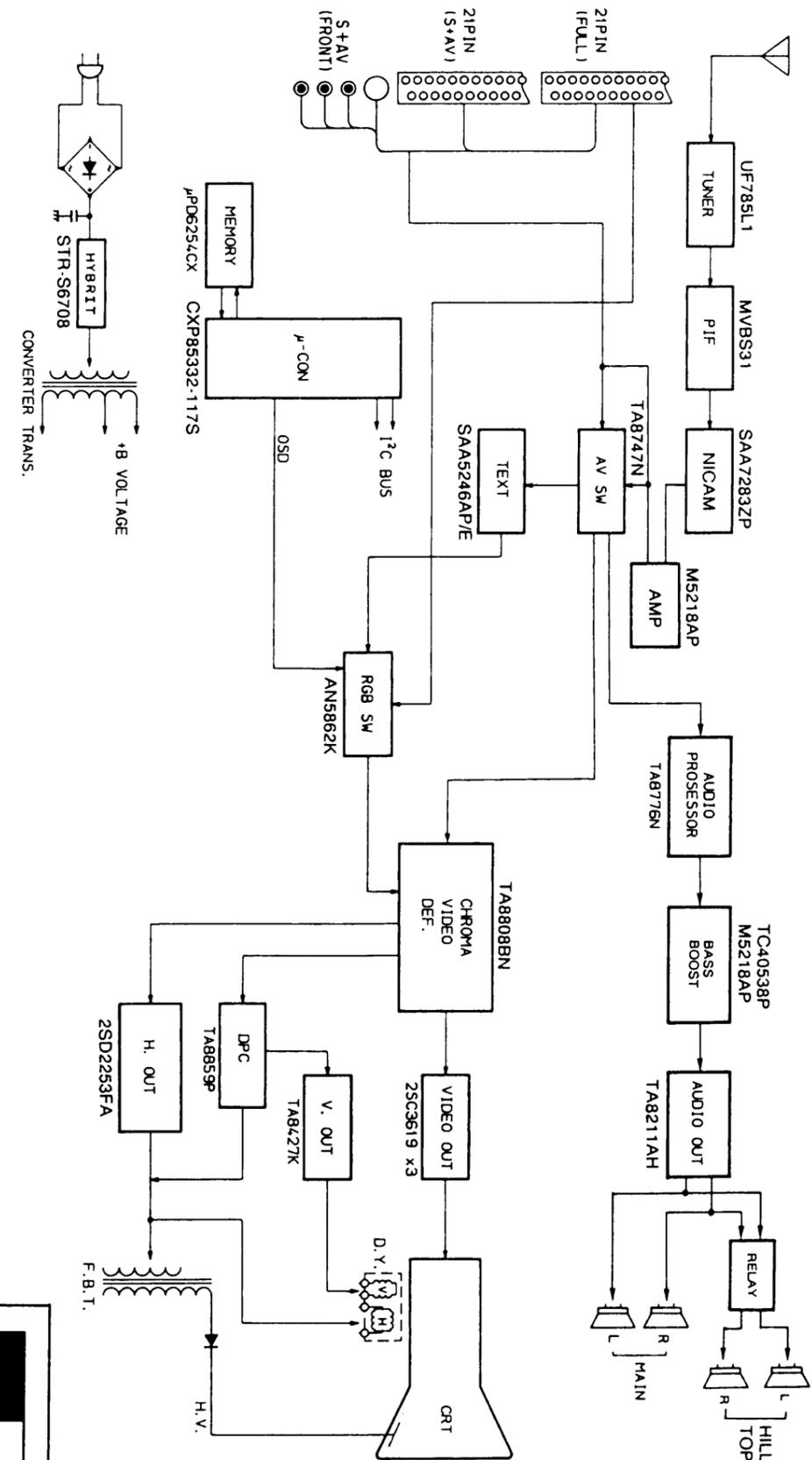
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the part list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

For further Service Adjustments see Matrix.

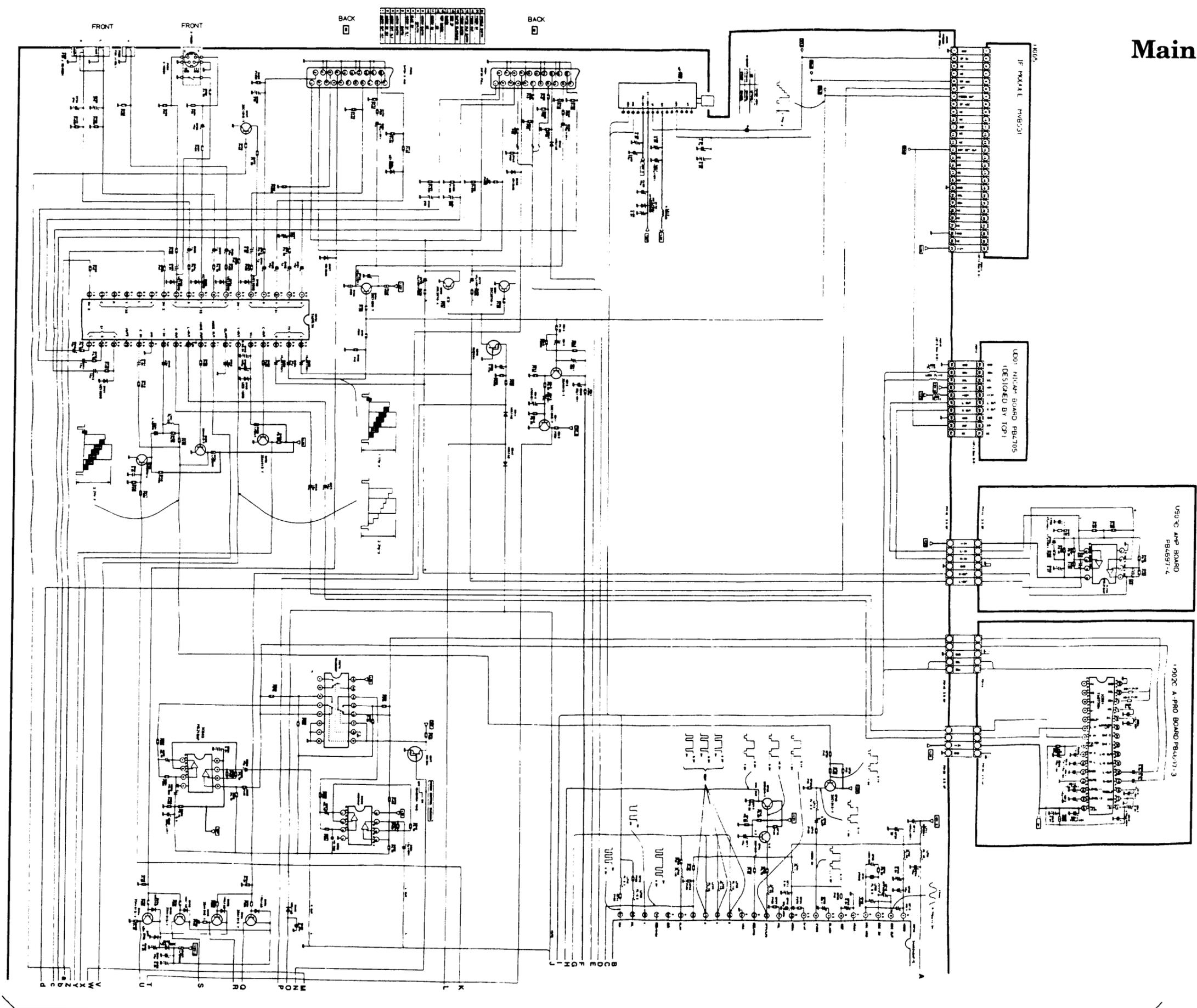
Recommended Safety Parts Cont'd.

Item	Part No.	Description
RV25	24019261	FR, 47 ohm, ±2%, 1/4W
S801	23145434	Switch, Power, 2C2P
T401	23224336	Transformer, Horiz. Drive, TLN1083
T461	23236454	Transformer, Flyback, TFB4117AR
T801	23211891	Line Filter, TRF3164
T803	23217214	Transformer, Converter, TPW3283AR
V901	23312462	Picture Tube, A59EAK71X01
V901A	23902067	Socket, CRT, 10P

Block Diagram

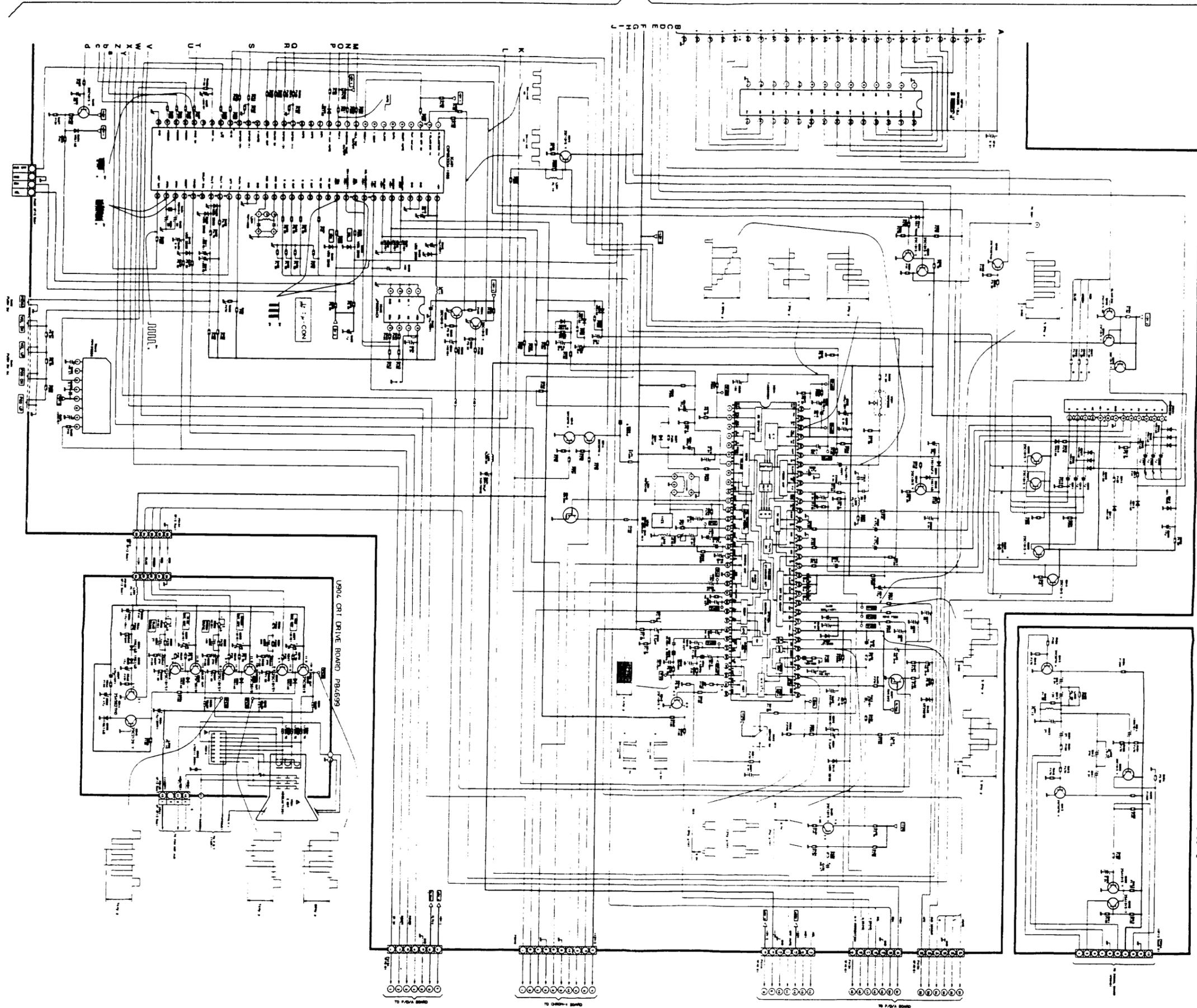


Main Diagram



Main Diagram Cont'd.

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19024 SIGNAL BOARD PB4697-1

U0028 CRTDRIVE BOARD PB4699

U0028 CRTDRIVE BOARD PB4697-2