

Service Manual



Colour Television

TX-32PM1

TX-28PM1

GP4 Chassis

SPECIFICATIONS

(Information in brackets [] refers to model TX-28PM1)

Power Source:	220-240V a.c., 50Hz
Power Consumption:	86W [78W]
Stand-by Power Consumption:	1,3W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Receiving System:	PAL-I, PAL-525/60 M.NTSC (AV only) NTSC (AV only)
Receiving Channels:	VHF A1-S20 UHF E21-E69 CATV S21-S41 (Hyperband)
Intermediate Frequency:	
Video/Audio	
Video	38,9MHz
Audio	32,9MHz 32,35MHz (NICAM)
Colour	34,47MHz
Terminals:	
AUDIO MONITOR OUT	Audio (RCAx2) 500mV rms 1kΩ
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin) 0,7V p-p 75Ω
AV1 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ

AV2 IN	Video (21 pin) Audio (21 pin) S-Video IN (21-pin)	1V p-p 75Ω 500mV rms 10kΩ Y: 1V p-p 75Ω C:0,3V p-p 75Ω
AV2 OUT	Video (21 pin) Audio (21 pin)	1V p-p 75Ω 500mV rms 1kΩ
AV3 IN	S-Video IN (4-pin) Audio (RCAx2) Video (RCAx1)	Y: 1V p-p 75Ω C:0,3V p-p 75Ω 500mV rms 10kΩ 1V p-p 75Ω

High Voltage: 32kV ± 0,9kV [31kV ± 1kV]

Picture Tube: W76EKX50X21 76cm
[W66MAF185X03 66cm]

Audio Output: 2x7W RMS, 2x15W MPO,
8Ω impedance

Headphones: 8Ω Impedance

Accessories supplied : Remote Control
2 x R6 (UM3) Batteries

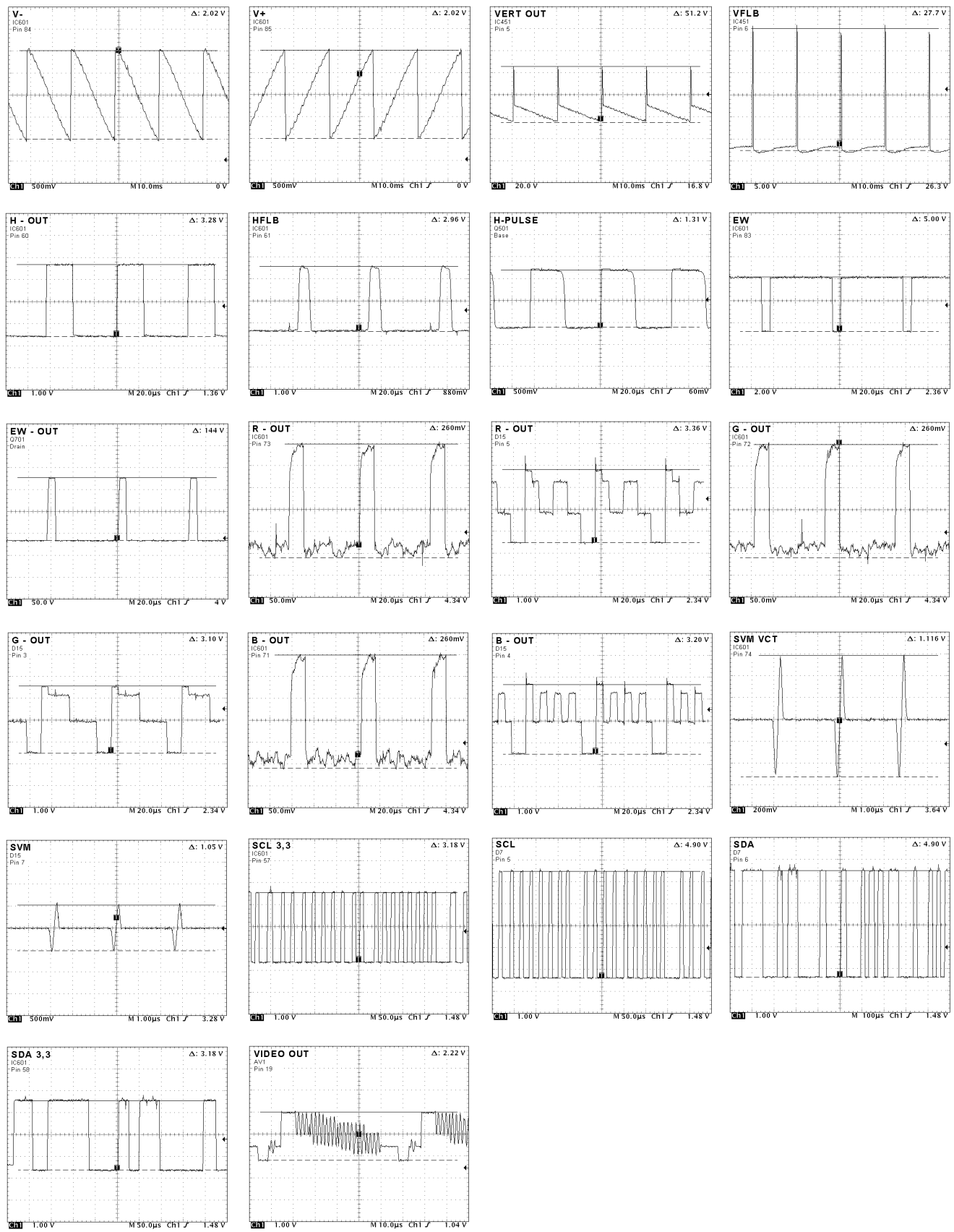
Dimensions:

Height:	566mm	[515mm]
Width:	902mm	[766mm]
Depth:	550mm	[529mm]

Net weight: 56kg [38kg]

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

WAVEFORM PATTERN TABLE



CONDITIONS: Contrast: MAX, Brightness: MID, Colour: MID, Sharpness: MID

ALIGNMENT SETTINGS

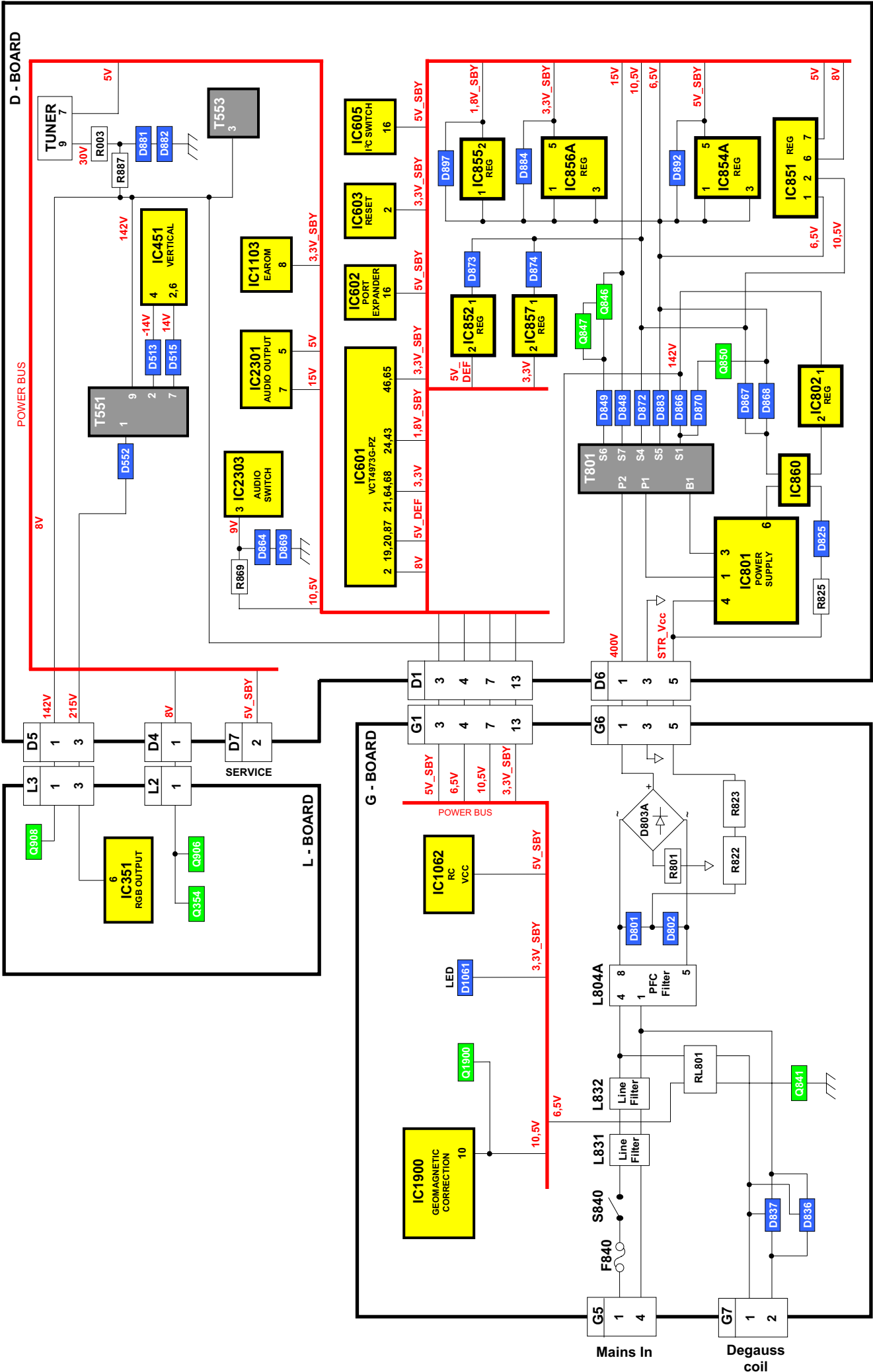
(The figures below are nominal and used for representative purposes only.)

1. Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (-/v) on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode 1.
2. Press the **RED / GREEN** buttons to step up / down through the functions.
3. Press the **YELLOW / BLUE** buttons to alter the function values.
4. Press the **OK** button after each adjustment has been made to store the required values.
5. To exit the Service Mode, press the "**N**" button.

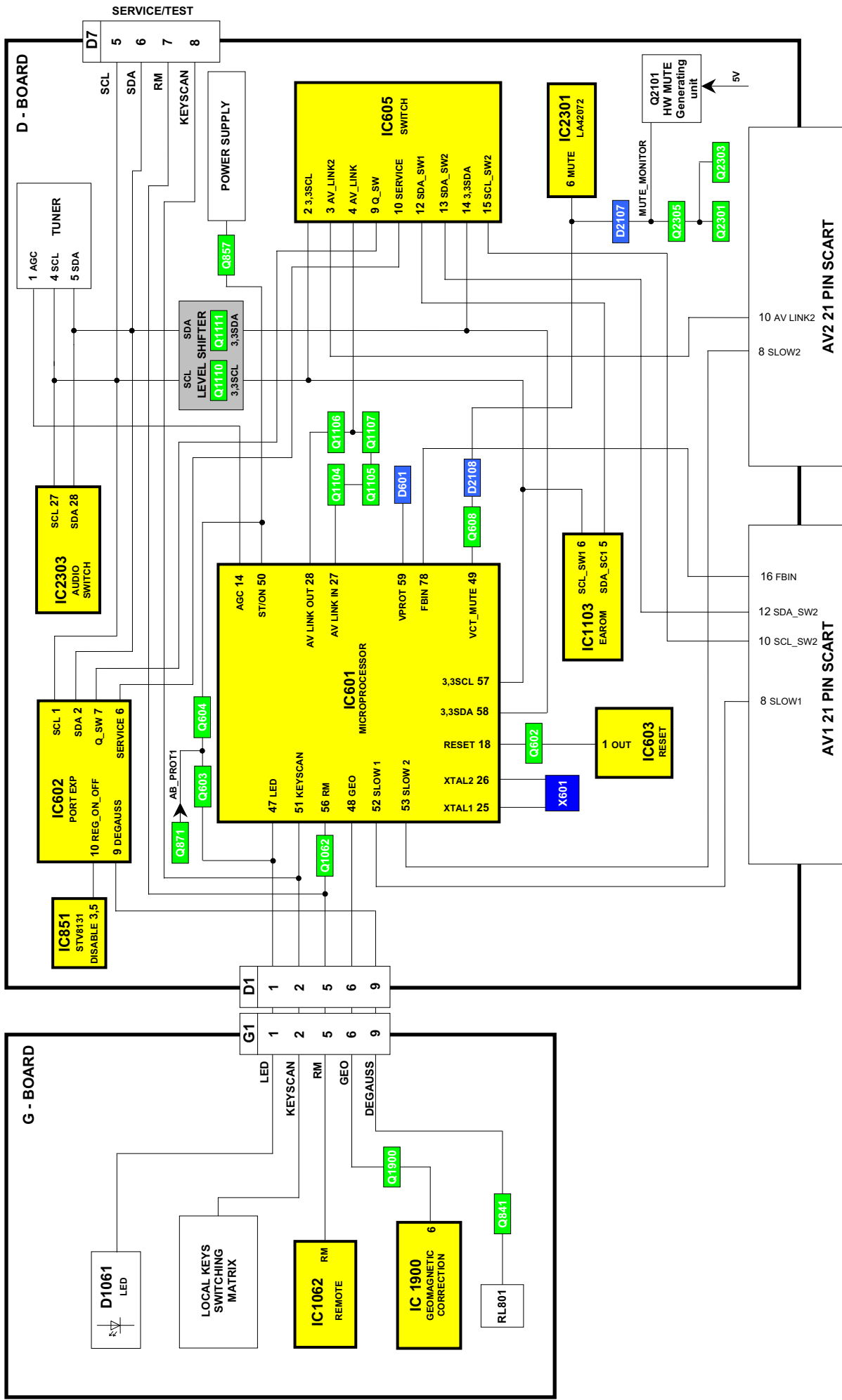
Alignment Function	Setting indication Note: All setting values are approximate	Settings / Special features
EAROM copy	TV/EXT	---
FLASH program copy	EXT -> TV	---
Horizontal Position	H-Pos -15	Optimum setting.
Vertical Position	V-Pos 10	Optimum setting.
Horizontal Amplitude	H-Amp 85	Optimum setting.
Vert. Amplitude	V-Amp 22	Optimum setting.
EW-amplitude	EW-Amp 1 - 20	Optimum setting.
Lower Corner	Lower Corner 5	Optimum setting.
Trapezium-comp	Trapez 1 -4	Optimum setting.
Upper Corner	Upper Corner 3	Optimum setting.
Vertical Linearity	V-Lin 24	Optimum setting.
Vertical Symmetry	V-Sym -12	Optimum setting.
Angle	Angle 2	Optimum setting.
Bow	Bow -2	Optimum setting.
DVCO	DVCO -1	Receive a PAL Colour Bar Pattern. For DVCO alignment press " Blue " button, wait until the figure colour is changed from red to black colour.
Highlight Lowlight	High 0451 0401 0380 Low 0270 0277 0256	Optimum setting.
Sub-Brightness	Sub-Brightness 7	Optimum setting.

[illegible]

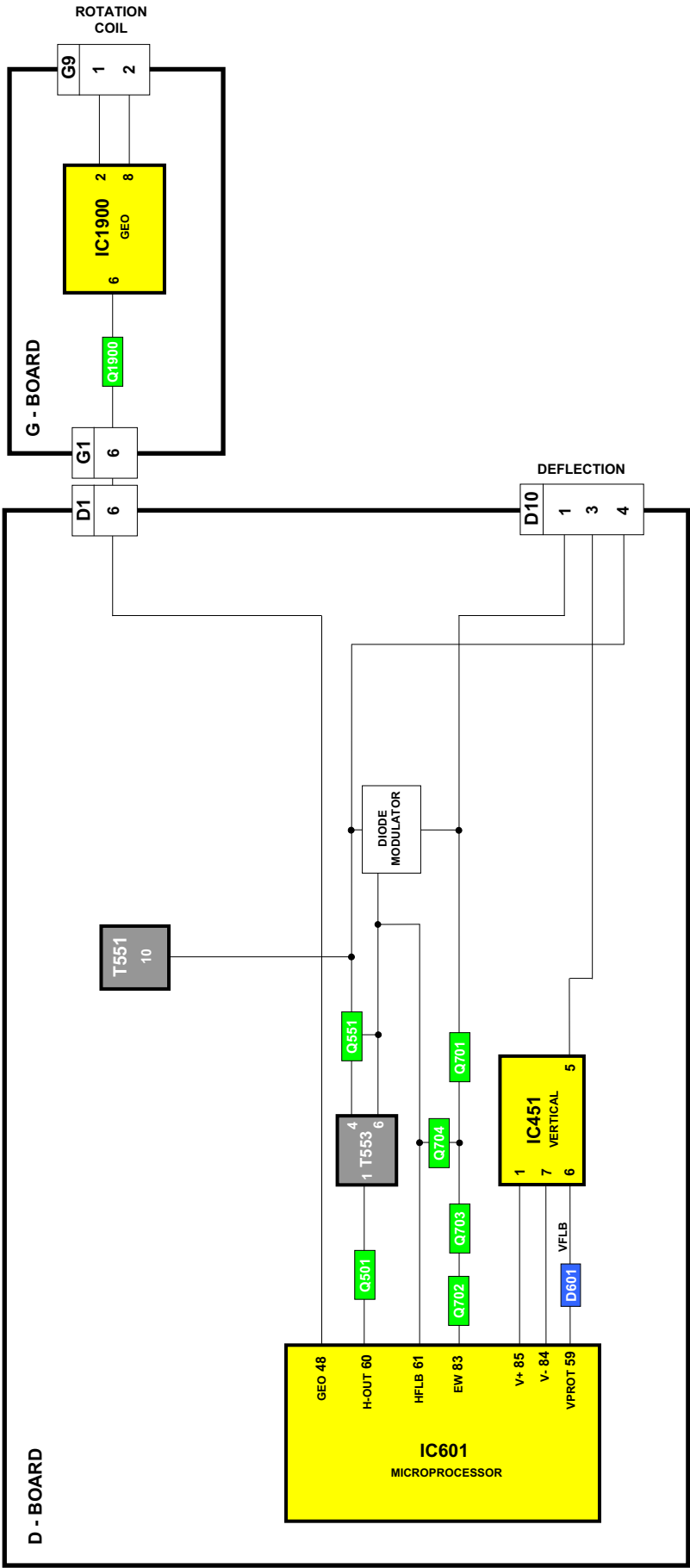
POWER SUPPLY BLOCK DIAGRAM



CONTROL BLOCK DIAGRAM



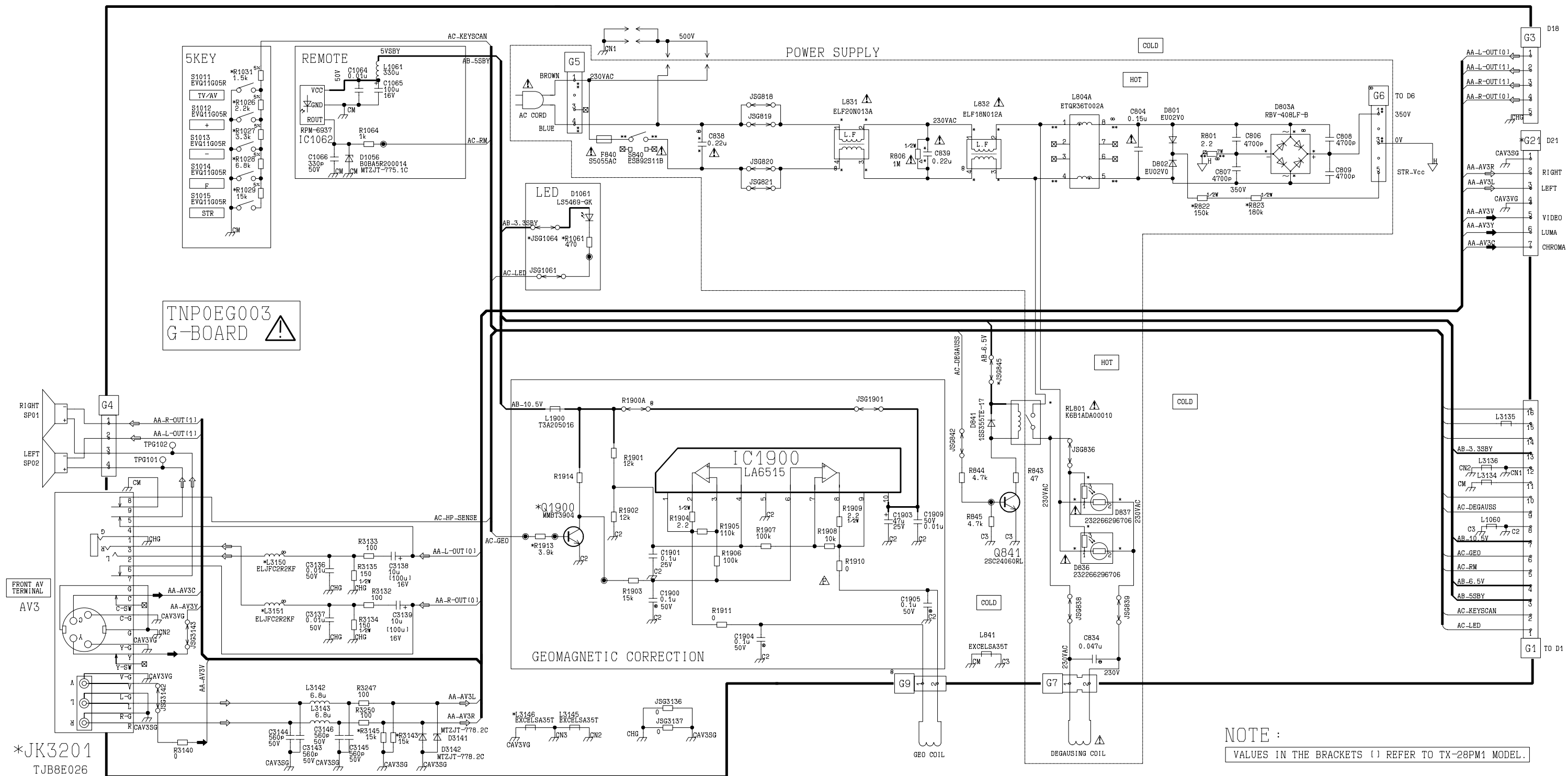
DEFLECTION BLOCK DIAGRAM



MODEL		
POSITION	TX-35PM1	TX-28PM1
C551	NOT USED	80W2274388
C552	80W2274388	NOT USED
C554	80W2210518	80W2274388
C559	80W2212431A	80W220427438
C560	80W2212431A	80W220427438
C569	80W2212431A	80W220427438
C704	80C262812X85	F1824072A015
C707	NOT USED	80W2274388
C708	NOT USED	80W2274388
C703	NOT USED	1853377-027
J59551	NOT USED	1JA3206027
J59554	1JA3206022	NOT USED
J59555	1JA3206022	NOT USED
J59705	1JA3205016	NOT USED
L653	ELC18B1124	NOT USED
L555	NOT USED	ELC103D708
L654	ELC18B1124	NOT USED
L559	NOT USED	ELC18B7012
L705	NOT USED	ELC18B031
Q704	NOT USED	80C4748
R509	80R313502H	80R313502H
R509	80R313502H	80R313502H
R707	NOT USED	80R313502H
R709	NOT USED	80R313502H
T551	27P7865011A	27P7865000

The schematic diagram illustrates the internal circuitry of a Sony JVC-KJ5001 color television set. It is a complex layout showing the interconnection of various electronic components, including integrated circuits (ICs), resistors, capacitors, and transistors. The diagram is organized into several functional sections:

- Power Supply Section (Top Left):** Features a transformer (T1) and various capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194, C195, C196, C197, C198, C199, C200, C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C211, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225, C226, C227, C228, C229, C230, C231, C232, C233, C234, C235, C236, C237, C238, C239, C240, C241, C242, C243, C244, C245, C246, C247, C248, C249, C250, C251, C252, C253, C254, C255, C256, C257, C258, C259, C260, C261, C262, C263, C264, C265, C266, C267, C268, C269, C270, C271, C272, C273, C274, C275, C276, C277, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441, C442, C443, C444, C445, C446, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C457, C458, C459, C460, C461, C462, C463, C464, C465, C466, C467, C468, C469, C470, C471, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C



	M O D E L	
POSITION	TX-32PM1	TX-28PM1
C362	ECQB1H102KF3	NOT USED
L351	JW-T3A206022	NOT USED

