

SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

SERVICING THE HIGH VOLTAGE AND CRT

Use EXTREME CAUTION when servicing the high voltage circuits. To discharge static high voltage, connect a 10K ohms resistor in series with a test lead between the receiver and CRT anode lead. DO NOT lift the CRT by the neck. Always wear shatterproof goggles when handling the CRT to protect eyes in case of implosion.

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

Be aware of the instructions and procedures covering X-ray radiation. In solid-state receivers and monitors, the CRT is the only potential source of X-rays. Keep an accurate high voltage meter available at all times. Check meter calibration periodically. Whenever servicing a receiver, check the high voltage at various brightness levels to be sure it is regulating properly. Keep high voltage at rated value, NO HIGHER. Excessive high voltage may cause X-ray radiation or failure of associated components. DO NOT depend on protection circuits to keep voltage at rated value. When troubleshooting a receiver with excessive high voltage, avoid close contact with the CRT. DO NOT operate the receiver longer than necessary. To locate the cause of excessive high voltage, use a variable AC transformer to regulate voltage. In present receivers, many electrical and mechanical components have safety related characteristics which are not detectable by visual inspection. Such components are identified by a # on both the schematic and the parts list. For SAFETY, use only equivalent replacement parts when replacing these components.

TEST JIG HOOKUP				
Function	Chek-A-Color Adapter No.	PC Board Plug No.	Pin	Color
CRT	B239	P401	1	Red
Yoke	D4137		3	Blue
Yoke Setting	YP1		5	Yellow
Comments	Focus Tap		6	Green

The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by Howard W. Sams & Company as to the quality and suitability of such replacement part. The numbers of the listed parts have been compiled from information furnished to Howard W. Sams & Company by the manufacturers of the specific type of replacement part listed.

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SAFETY CHECKS – FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

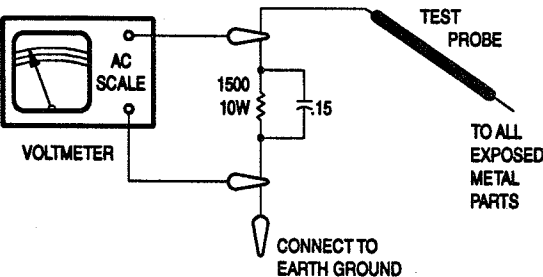
Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

Hot Leakage Current Check

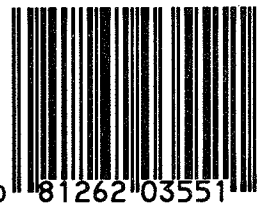
Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500µA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check inner board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.



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PHOTOFACT.® Technical Service Data

SET 3551

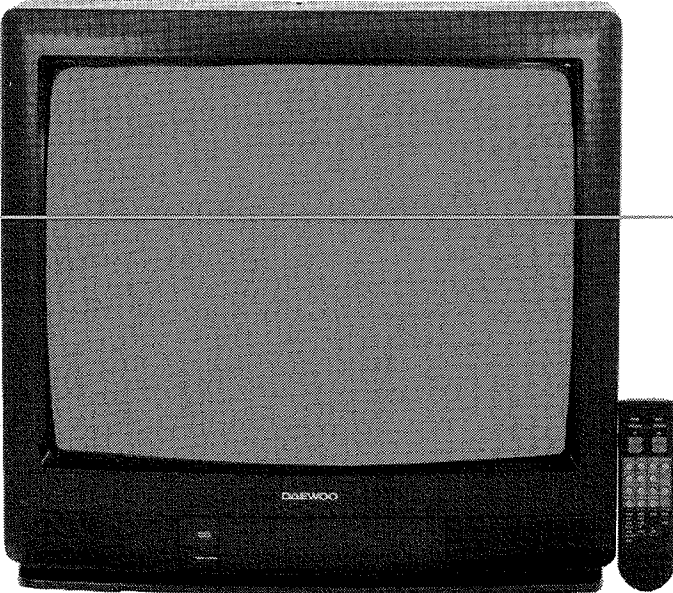
MODELS DTQ-2605FC/FCG/FM/FMG/FN/FNG (CHASSIS CN-600)

DAEWOO

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DAEWOO
Models DTQ-2605FC/FCG/FM/FMG/FN/FNG (Chassis CN-600)



Model DTQ-2605FC

Complete coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list
- Troubleshooting guide



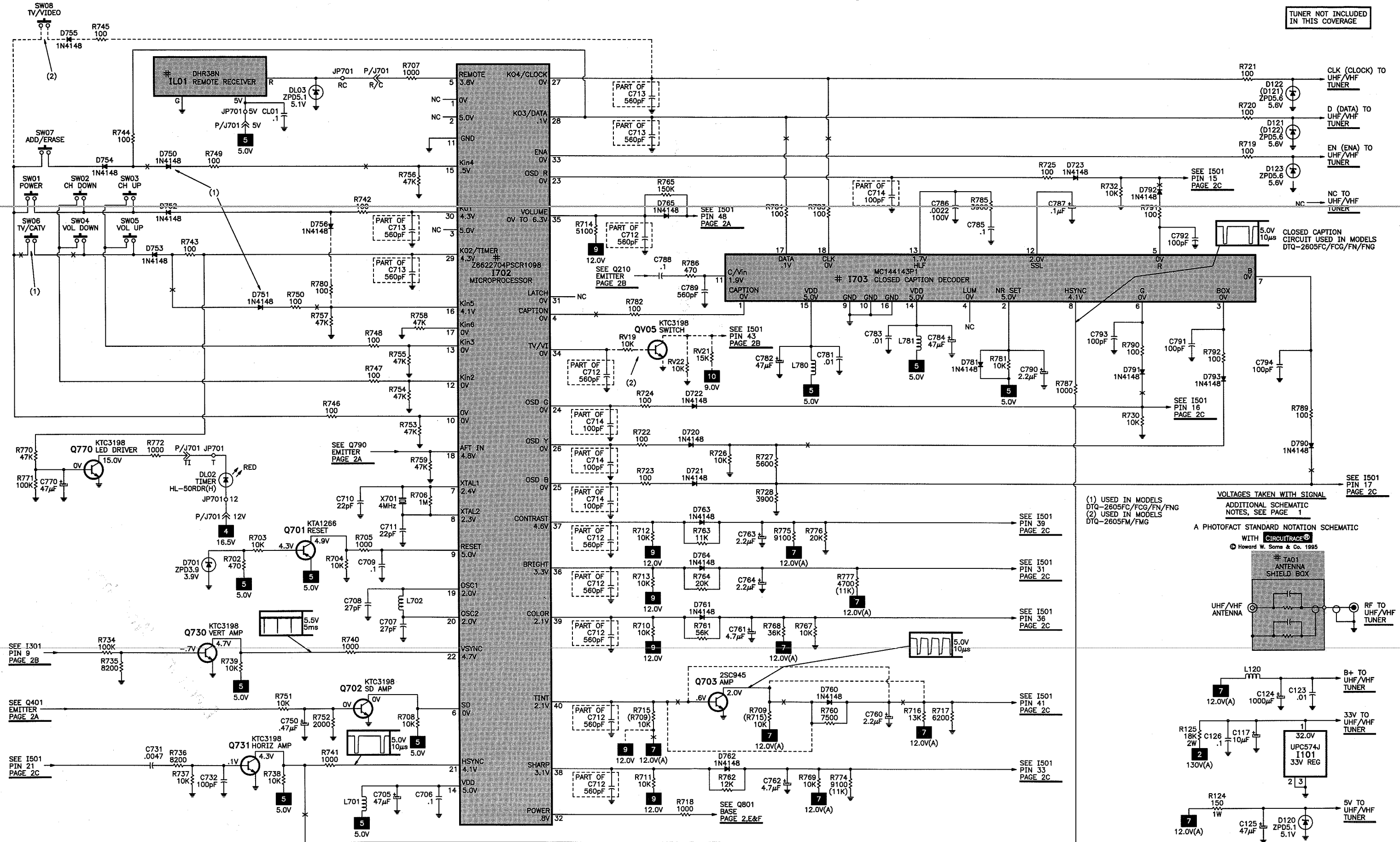
HOWARD W. SAMS & COMPANY

SEPTEMBER 1995 SET 3551

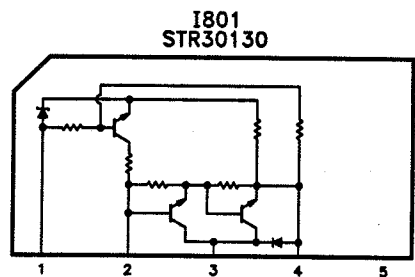
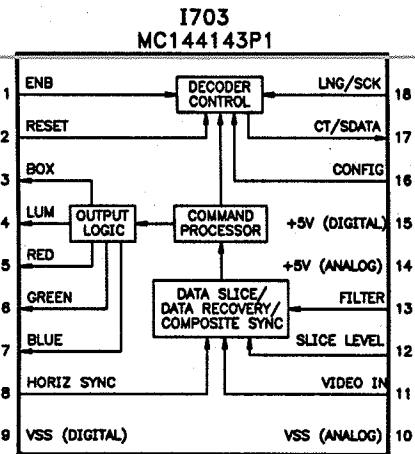
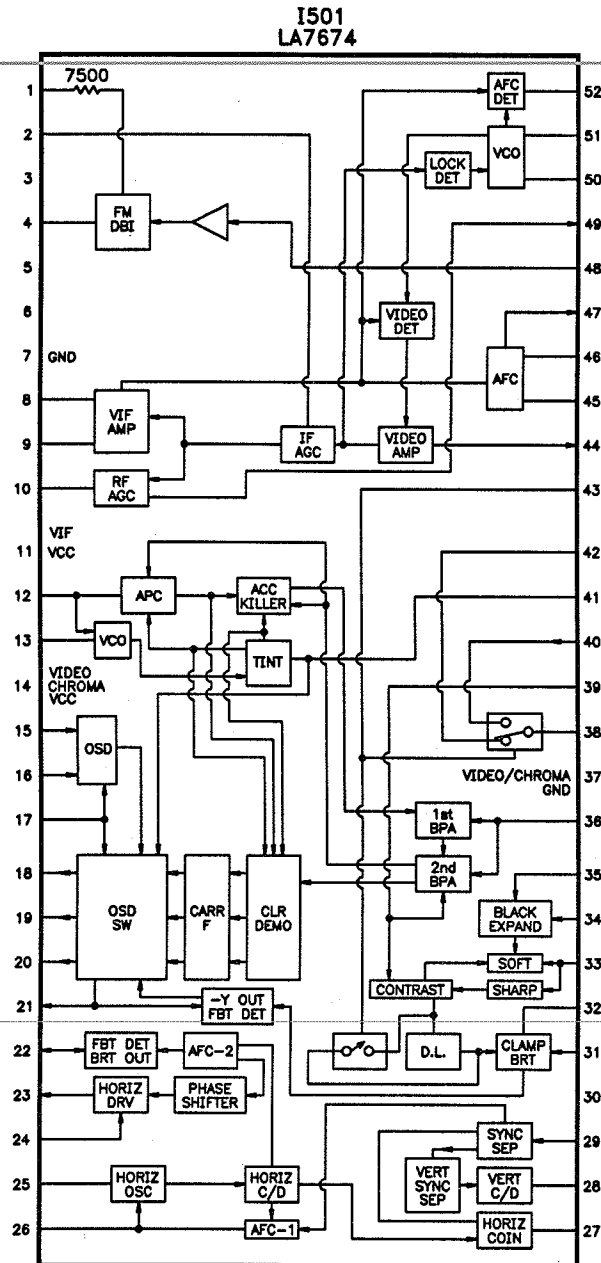
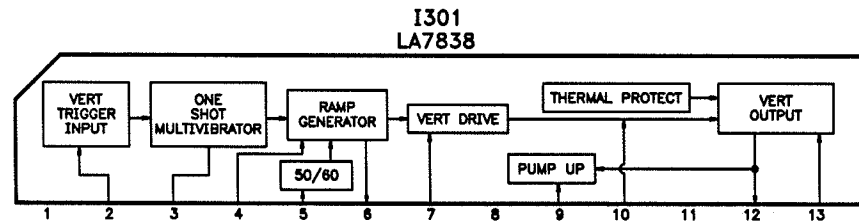
For Supplier Address,
See PHOTOFACT Annual Index

SYSTEM CONTROL SCHEMATIC

TUNER NOT INCLUDED
IN THIS COVERAGE



IC FUNCTIONS



SCHEMATIC NOTES

For SAFETY use only equivalent replacement part, see parts list.

✱ Circuitry not used in some versions.

--- Circuitry used in some versions.

⬇ Ground

⬆ Chassis ground

⬇ Common tie point

△ Taken from common tie point

3 Schematic CIRCUITTRACE : Voltage source tie point.

A Cabling: Heavy lines reduce use of multiple lines.

Waveforms and voltages are taken from ground, unless noted otherwise.

Waveforms taken with triggered scope and keyed rainbow generator. Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions.

Supply voltages maintained as seen at input.

Voltages measured with digital meter and no signal.

Controls adjusted for normal operation.

Capacitors are 50 volts or less, 5% or greater unless noted.

Electrolytic capacitors are 50 volts or less,

20% or greater unless noted.

Resistors are 1/2W or less, 5% or greater unless noted.

Value in () used in some versions.

Measurements with switching as shown, unless noted.

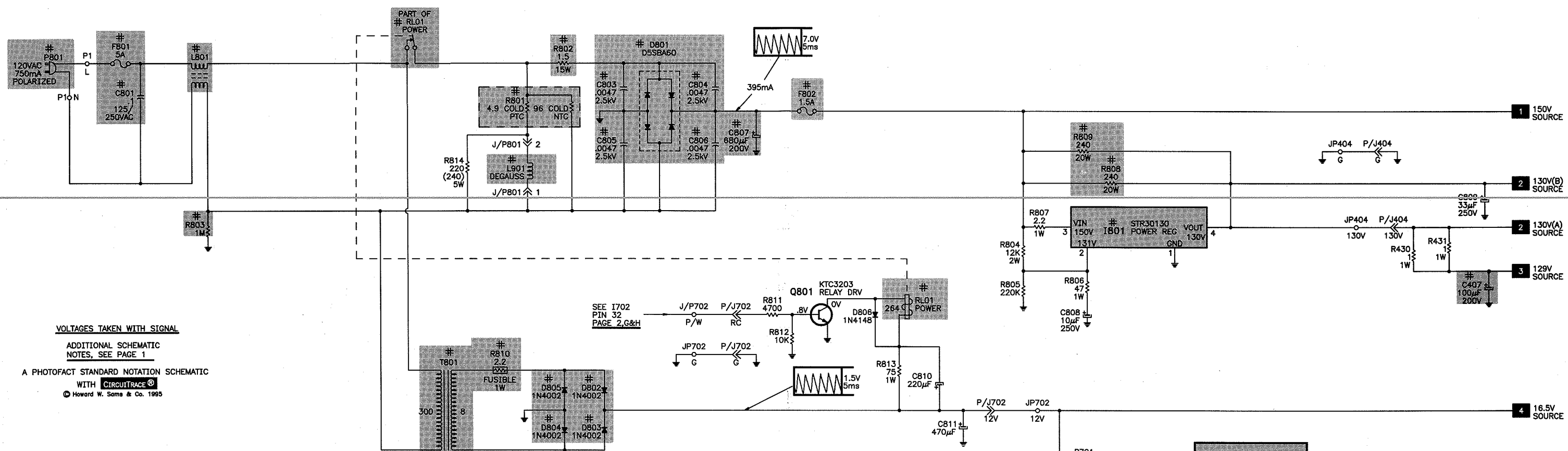
Rated voltage shown on zener diodes.

TEST EQUIPMENT

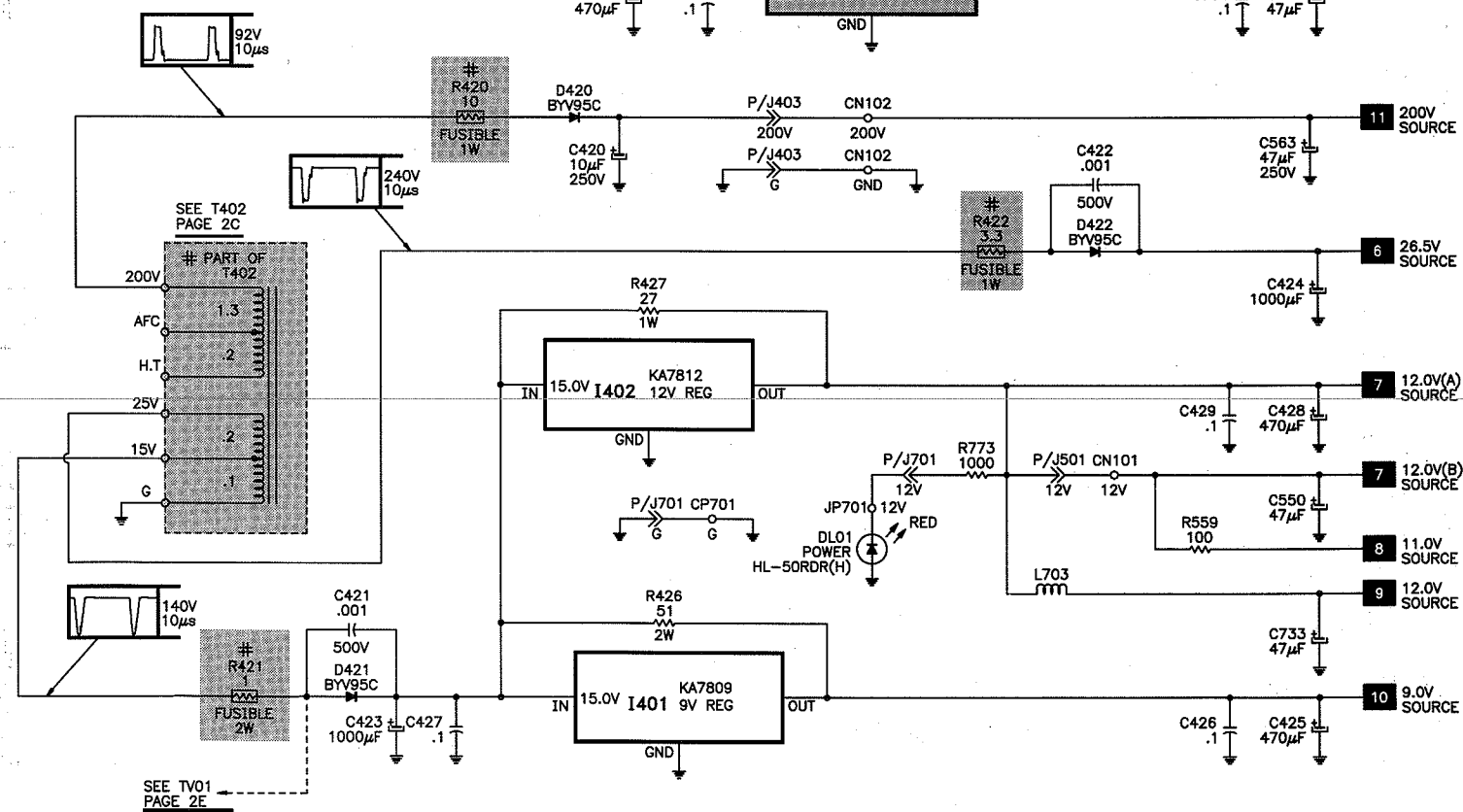
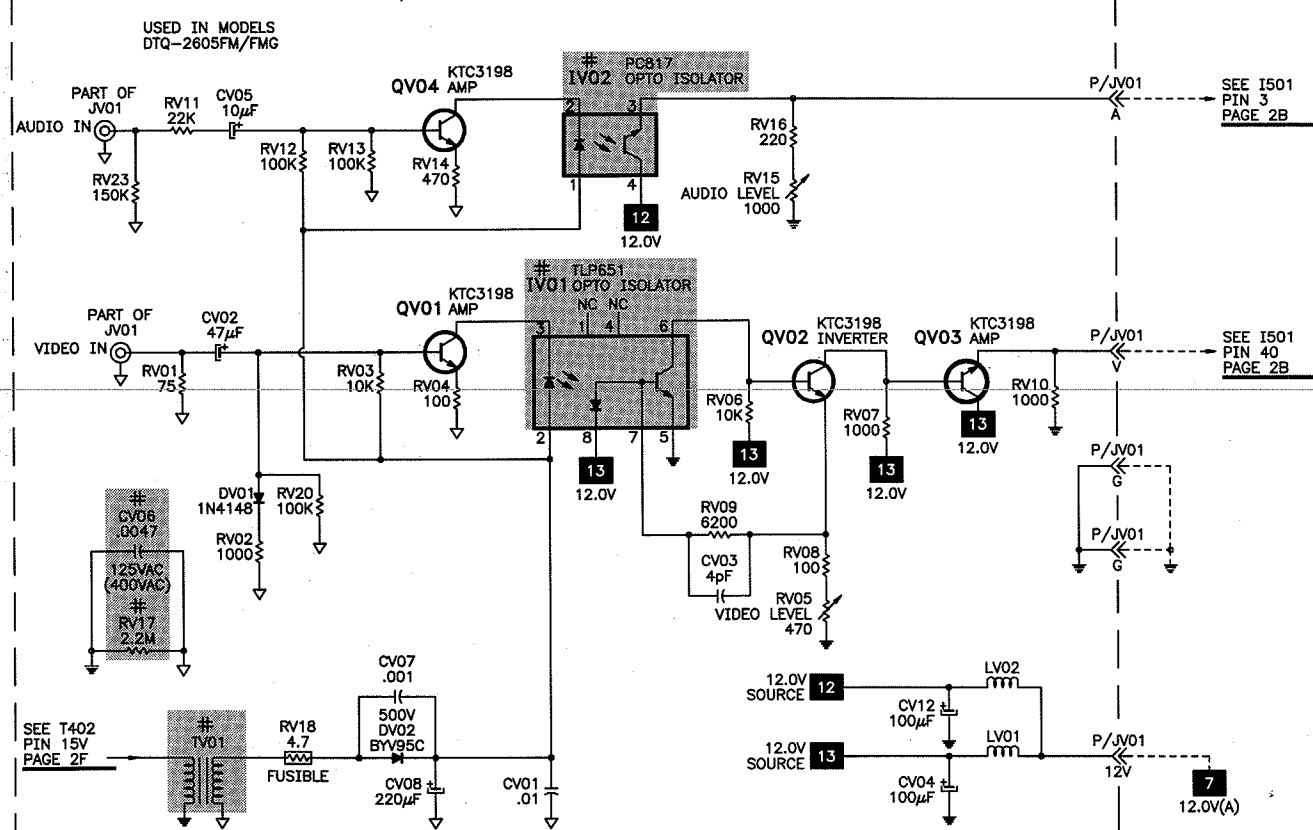
Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

Equipment	Sencore No.	Equipment	Sencore No.
Oscilloscope	SC3100	Isolation Transformer	PR57
Generators		Capacitance Analyzer	LC101, LC102
RGB	CM2000	CRT Analyzer	CR70
Multiburst Signal	VG91	AC Leakage Tester	PR57
Color Bar	VG91	Inductance Analyzer	LC101, LC102
TV Stereo	VG91	Flyback Yoke Tester	TVA92
Digital VOM	SC3100	TV Stereo Power Monitor	SR68, PA81
Frequency Meter	SC3100	Field Strength Meter	SL750
Hi-Voltage Probe	HP200	Transistor Tester	TF46
Accessory Probes	TP212	Video Analyzer	VG91, TVA92

POWER SUPPLY SCHEMATIC



A/V INPUT CIRCUITRY



PARTS LIST

SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
D120	ZPD5.1	DZPD5R1	NTE5010A	ECG5010A	SK5A1
D121, 22, 23	ZPD5.6	DZPD5R6	NTE5011A	ECG5011A	SK5A6
D230, 31, 32	1N4148	D1N4148	NTE519	ECG519	SK3100
D240	1N4148	D1N4148	NTE519	ECG519	SK3100
D250	ZPD12	DZPD12	NTE5021A	ECG5021A	SK12A
D301	1N4003	D1N4003	NTE116	ECG116	SK3113
D302 (1)	1N4148	D1N4148	NTE519	ECG519	SK3100
# D410	RH-1B	DRH1B	NTE506	ECG506	SK3925
# D411	MTZ6.2B	-	NTE5013A	ECG5013A	SK6A2
	MTZ6.2C	DMTZ6R2C	-	-	-
D413	1N4148	D1N4148	NTE519	ECG519	SK3100
D414	ZPD5.6	DZPD5R6	NTE5011A	ECG5011A	SK5A6
D415, 16	1N4148	D1N4148	NTE519	ECG519	SK3100
D417	ZPD5.6	DZPD5R6	NTE5011A	ECG5011A	SK5A6
D418	1N4148	D1N4148	NTE519	ECG519	SK3100
D419	ZPD12	DZPD12	NTE5021A	ECG5021A	SK12A
D420, 21, 22	BYV95C	DBYV95C	NTE580	ECG580	SK5036
D430	ZPD6.8	DZPD6R8	NTE5014A	ECG5014A	SK6A8
D431, 32	1N4148	D1N4148	NTE519	ECG519	SK3100
D601, 02	1N4148	D1N4148	NTE519	ECG519	SK3100
D701	ZPD3.9	DZPD3R9	NTE5007A	ECG5007A	SK3A9
D720 Thru					
D723	1N4148	D1N4148	NTE519	ECG519	SK3100
D750, 51 (2)	1N4148	D1N4148	NTE519	ECG519	SK3100
D752 Thru					
D754	1N4148	D1N4148	NTE519	ECG519	SK3100
D755 (3)	1N4148	D1N4148	NTE519	ECG519	SK3100
D756 (1)	1N4148	D1N4148	NTE519	ECG519	SK3100
D760 Thru					
D765	1N4148	D1N4148	NTE519	ECG519	SK3100
D781	1N4148	D1N4148	NTE519	ECG519	SK3100
D790 Thru					
D793	1N4148	D1N4148	NTE519	ECG519	SK3100
# D801	D5SBA60	DD5SBA60	-	-	-
# D802 Thru					
# D805	1N4002	D1N4002	NTE116	ECG116	SK3311
D806	1N4148	D1N4148	NTE519	ECG519	SK3100
D901, 02, 03	1N4148	D1N4148	NTE519	ECG519	SK3100
DL01, 02	HL-50RDR(H)	DHL50RDRH	-	-	-
DL03	ZPD5.1	DZPD5R1	NTE5010A	ECG5010A	SK5A1
DV01 (3)	1N4148	D1N4148	NTE519	ECG519	SK3100
DV02 (3)	BYV95C	DBYV95C	NTE580	ECG580	SK5036
I101	UPC574J	1UPC574J	NTE615P	ECG615A	SK9976
# I301	LA7838	1LA7838	NTE7039	ECG7039	-
I401	KA7809	-	-	-	-
	MC7809C	1MC7809C	-	-	-
I402	KA7812	-	NTE966	ECG966	SK3592
	MC7812	1MC7812	NTE966	ECG966	SK3592
# I501	LA7674	1LA7674	-	-	-
# I701	KA7805	-	-	-	-
	MC7805C	1MC7805C	NTE960	ECG960	SK3591
# I702	Z8622704PSCR1098	1Z86227	-	-	-
# I703 (2)	MC144143P1	173G144143	-	-	-
# I801	STR30130	1STR30130	NTE1777	ECG1777	SK9870

For SAFETY use only equivalent replacement part.
(1) Used in some versions.
(2) Used in models DTQ-2605FC, DTQ-2605FCG, DTQ-2605FN, and DTQ-2605FNG.
(3) Used in models DTQ-2605FM and DTQ-2605FMG.

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
# IV01 (3)	TLP651	1TLP651	-	-	-
# IV02 (3)	PC817	1PC817	NTE3098	ECG3098	SK9763
Q101	KTC3197	TKTC3197	NTE107	ECG107	SK3293
Q201	KTA1266Y	TKTA1266Y	NTE290A	ECG290A	SK3114A
Q210, 11	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
Q230, 31	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
Q250	KTA1270Y	TKTA1270Y	NTE290A	ECG290A	SK3114A
Q401	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
# Q402	2SC1569	T2SC1569	NTE376	ECG376	SK3219
# Q403	2SD2251	T2SD2251	-	-	-
# Q430	2SA1837	T2SA1837	-	-	-
Q431	KTA1266Y	TKTA1266Y	NTE290A	ECG290A	SK3114A
Q501	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
# Q551, 52, 53	KTC3229	TKTC3229	-	ECG376	-
Q554, 55, 56	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
# Q601	KTC1026Y	TKTC1026Y	-	-	-
	KTC2230	-	NTE399	ECG399	SK9352
# Q602	KTC2073	TKTC2073	NTE375	ECG375	SK9118
# Q603	KTA940	TKTA940	NTE398	ECG398	SK3930
Q701	KTA1266Y	TKTA1266Y	NTE290A	ECG290A	SK3114A
Q702	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
Q703	2SC945Y	-	NTE85	ECG85	SK3124A
	KTC3203Y	-	NTE382	ECG382	SK9137
	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
Q730, 31	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
Q770, 90	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
Q801	KTC3203Y	TKTC3203Y	-	-	-
Q901	KTA1266Y	TKTA1266Y	NTE290A	ECG290A	SK3114A
Q902	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229
QV01 Thru					
QV05 (3)	KTC3198Y	TKTC3198Y	NTE85	ECG85	SK9229

For SAFETY use only equivalent replacement part.
(3) Used in models DTQ-2605FM and DTQ-2605FMG.

CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
C304	1µF 10% 35V Tantalum	CTXD1V109K
# C405	2.2µF 20% 160V	CEX2C229A
# C407	100µF 20% 200V	CEYE2D101C
# C408	.0047 5% 1.6kV	CMYH3C472J
# C409	.0082 5% 1.6kV	CMYH3C822J
# C413	.39 5% 200V	CMYE2D394J
# C414	270pF 10% 2kV	CCYB3D271K
# C416	470pF 10% 2kV	CCYB3D471K
C501A	.0047 10% 2kV	CCYB3D472K

For SAFETY use only equivalent replacement part.

CAPACITORS & ELECTROLYTICS continued

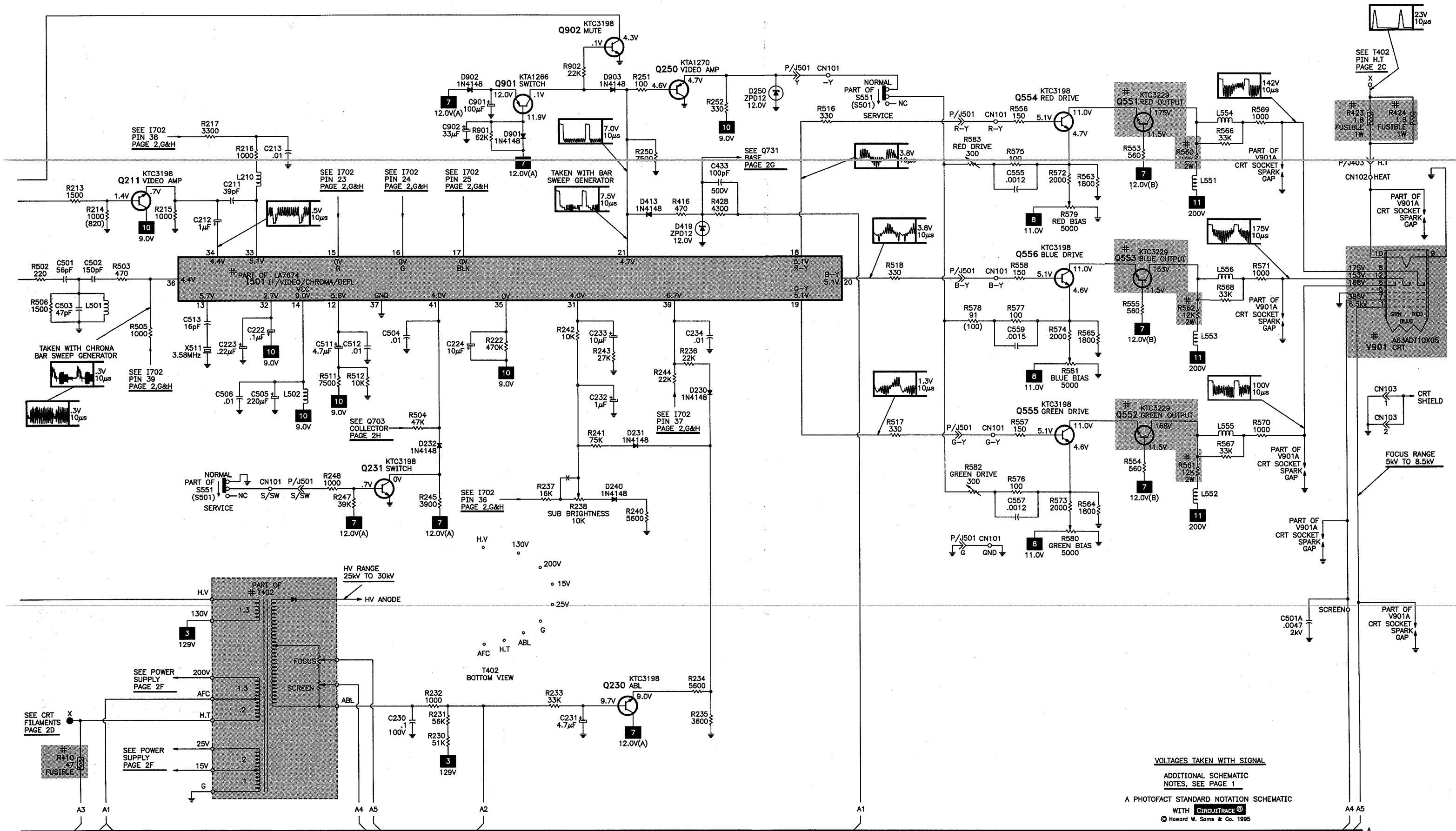
Item No.	Rating	Mfr. Part No.
C712	560pF 20% X 7 Network	CN7XB-561M
C713	560pF 20% X 4 Network	CN4XB-561M
C714	100pF 20% X 4 Network	CN4XB-101M
# C801	.1 10% 125/250VAC	CLYL2B104K
# C803 Thru		
# C806	.0047 20% 2.5kV	CH1BEE472M
# C807	680µF 200V	CEYN2D681P
# CV06 (1)	.0047 125VAC	-
	.0047 20% 400VAC	CH1FFF472M

For SAFETY use only equivalent replacement part.
(1) Used in models DTQ-2605FM/FMG.

CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
R111	10K RF AGC	RV5426103P	-
R238	10K Sub Brightness	RV5426103P	-
R306	20K Vertical Size	-	-
	22K Vertical Size	RV5426223P	-
# R314	680 5% 1W	RS01Y681J	1W168
# R406, 07, 08	15K 5% 2W	RS02Y153J	2W315
# R410	47 5% 1/4W Fusible	RF-4Y470J	-
R411	10K 1% 1/6W	RN-AZ1002F	-
# R412	5600 1% 1/6W	RN-AZ5601F	-
R415	10K Horizontal Centering	RV5426103P	-
# R420	10 5% 1W Fusible	RF01Y100J	F1W010
# R421	1 5% 2W Fusible	RF02Y109J	F2W1D0
# R422	3.3 5% 1W Fusible	RF01Y339J	F1W3D3
# R423, 24	1.8 5% 1W Fusible	RF01Y189J	F1W1D8
# R425, 29	1000 5% 1W	RS01Y102J	1W210
# R560, 61, 62	12K 5% 2W	RS02Y123J	2W312
R579	5000 Red Bias	RV6117502A	-
R580	5000 Green Bias	RV6117502A	-
R581	5000 Blue Bias	RV6117502A	-
R582	300 Green Drive	RV6117301A	-
R583	300 Red Drive	RV6117301A	-
# R609, 10	82 5% 2W Fusible	RF02Y820J	2W082
# R801	4.9 Cold PTC/96 Cold NTC	DPTBF5R140	-
# R802	1.5 5% 15W Wirewound	RX15B159JK	-
# R803	1M 5% 1/2W	RD-2Z105J	HW510
# R808, 09	240 5% 20W Wirewound	RX20B241JL	-
# R810	2.2 5% 1W Fusible	RF01Y229J	F1W2D2
R814	220 5% 5W Wirewound	RX05B221JE	5W122
	240 5% 5W Wirewound	-	-
RV05 (1)	470 Video Level	RV5426471P	-
RV15 (1)	1000 Audio Level	RV5426102P	-
# RV17 (1)	2.2M 5% 1/6W	RC-2Z225J	-
RV18	4.7 5% 1/4W Fusible	RF-4Y479J	-

For SAFETY use only equivalent replacement part.
(1) Used in models DTQ-2605FM/FMG.



PARTS LIST continued

COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
DY (1)	Yoke 110° Horiz 1.22mH Vert 17.9mH	-
L101, 02	.55μH	58C5580019
L103	PIF	58B25R2060
L104	56μH	5CPX560J
L105	22μH	5CPZ220K02
L106	VCO	58B0000081
L107	AFT	58B49R3041
L120	56μH	5CPX560J
L201	18μH	5CPZ180K02
L202	22μH	5CPZ220K02
L210	82μH	5CPZ820K02
L301	56μH	5CPX560J
# L401	Horizontal Linearity	58H0000025
# L402	Width	58W0000022
# L403	-	58C220M077
# L404 (2)	Ferrite Bead	58C0000026
(3)	Ferrite Bead	58C0000026
L501	10μH	5CPZ100K02
L502	56μH	5CPX560J
L551, 52, 53	390μH	5CPX391J
L554, 55, 56	47μH	5CPX470J
L701	56μH	5CPX560J
L702	33μH	5CPZ330K02
L703	56μH	5CPX560J
L780, 81 (2)	56μH	5CPZ560K02
# L801	Line Filter	5PLF501
# L901	Degaussing	58G0000076
LV01, 02	56μH	5CPX560J
# T401	Horizontal Driver	5TD0000018
# T402 (4)	Horizontal Output	50H0000138
# T601	Audio Output	5TOK000015
# T801	SMPS	5PTC0000085
# TV01 (3)	Power	5TPK000143

For SAFETY use only equivalent replacement part.
(1) Part of CRT.
(2) Used in models DTQ-2605FC/FCG/FN/FNG.
(3) Used in models DTQ-2605FM/FMG.
(4) Focus and screen controls are part of T402.

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
CF101	Crystal	5PCDA45E42	4.5MHz
CF201	Trap	5PTPS45MB	4.5MHz
CF202	Filter	5PSFE45MB	4.5MHz
F501	Comb Filter	5PCFM102	-
# F801	Fuse	5F1GB5021L	5 Amp, 125V, Slow Blow
# F802	Fuse	5F1GB1522M	1.5Amp, 250V, Fast Acting
# IL01	Receiver	1DHR38N	Remote (DHR38N)
JV01 (1)	Jack	4850705074	Assembly
# P801	Line Cord	4859900321	AC, Polarized
# RL01	Relay	5400202002	Power
S551	Switch	5S40202140	Normal/Service
SF101	Filter	5PDSW1003S	SAW
SP01	Speaker	4858310910	2" X 3 1/2", 8 Ohms, 7.5W
SW01	Switch	5S50101008	Power
SW02	Switch	5S50101008	Channel Down
SW03	Switch	5S50101008	Channel Up
SW04	Switch	5S50101008	Volume Down
SW05	Switch	5S50101008	Volume Up
SW06 (2)	Switch	5S50101008	TV/CATV
SW07	Switch	5S50101008	Add/Erase
SW08 (1)	Switch	5S50101008	TV/Video
SW301	Switch	5S40403035	Vertical Centering
# TA01	Shield Box	4850A13440	Antenna
# TU101	Tuner (4)	4859709430	UHF/VHF (VTSS7USZPLD)
# V901 (2)	CRT	4859609260	A63ADT10X05
(1)	CRT	4859610760	A63ADT10X105P30
(3)	CRT	-	A63ADT10X305
V901A	Socket	4859301930	CRT
X401	Crystal	4850L02410	503kHz
X511	Crystal	5XE3R5795C	3.58MHz
X701	Crystal	5XE4R0000C	4MHz
	Antenna	4850A02310	Rod
	Fuse Clip	4857415001	For F801, 02 (4 Used)
	PC Board (4)	4859808713	CRT
	PC Board (4)	4859807892	Main
	PC Board (4)	4859806911	Power Supply
	Transmitter	48BON2118C	Remote (R-18C)

For SAFETY use only equivalent replacement part.
(1) Used in models DTQ-2605FM/FMG.
(2) Used in models DTQ-2605FC/FCG/FN/FNG.
(3) Used in some versions.
(4) Contact PTS Electronics Corporation for replacement; order by manufacturer's

CABINET PARTS

Item	Part No.
Models DTQ-2605FC/FCG/FN/FNG	
Brand Name (1)	4855616121
Cabinet Front Assembly	PTCACAJ025
Decoration, Control (1)	4855052500
Decoration, Sensor (1)	4855516601
Decoration, Sensor (1)(2)	4855514700
Decoration, Terminal (3)	4855923800
Door (1)	4852813701
Door Lock (1)	4857923300
Mask Front (1)	4852044700
Push Button Assembly	4854825013
Rear Cover (3)	4852132400
Rear Cover Assembly	PTBCSHJ025
Speaker Cover	4857526200
Models DTQ-2605FM/FMG.	
Cabinet Front Assembly	PTCACAJ262
Decoration, Control (1)	4855053504
Decoration, Sensor (1)	4855516602
Decoration, Sensor (1)(2)	4855514700
Decoration, Terminal (3)	4855923805
Door (1)	4852813701
Door Lock (1)	4857923300
Mask Front (1)	4852044701
Mask Front Assembly	PTFMSJJ262
Push Button Assembly	4854825001
Rear Cover (3)	4852132401
Rear Cover Assembly	PTBCSHJ262
Speaker Cover	4857526200

(1) Part of cabinet front assembly.
(2) Used in some versions.
(3) Part of rear cover assembly.

Important Parts Information

- The parts listed here are those not usually available from a well-stocked supply cabinet or bin.
- Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.
- On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.
- When ordering parts, state the model number, part number, and description.

Obtaining Parts

Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor:

800-428-7267

Or consult the Sams *Annual Index* for the address of the original equipment manufacturer.

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors. Consult the Sams *Annual Index* for their current address.

- Custom Components Corporation (Chek-A-Color)
- NTE Electronics, Inc. (NTE)
- Philips ECG Company (ECG)
- PTS Electronics Corporation (PTS)
- Sencore, Inc.
- Thomson Consumer Electronics, Inc. (SK, TCE)

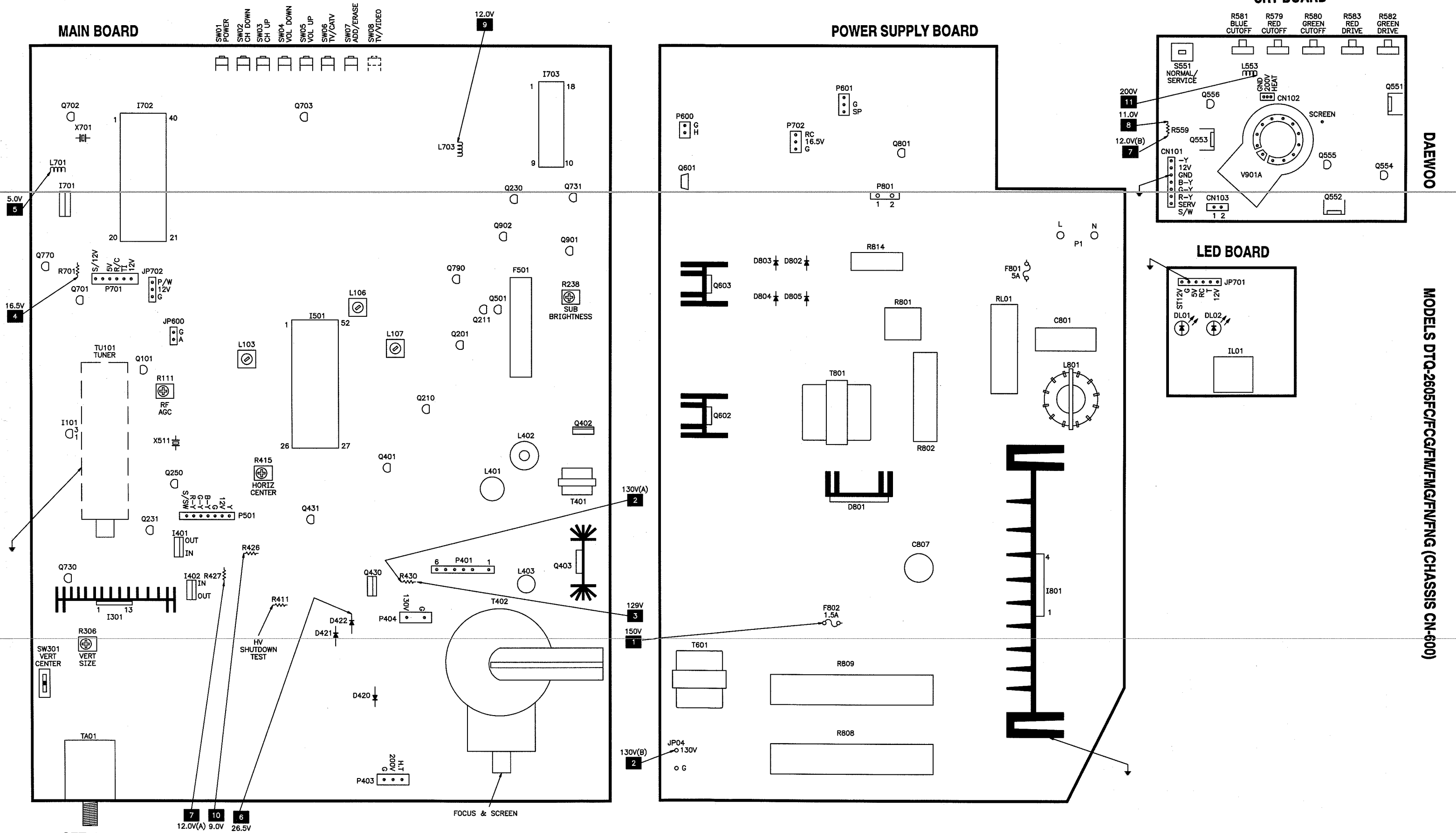


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PLACEMENT CHART



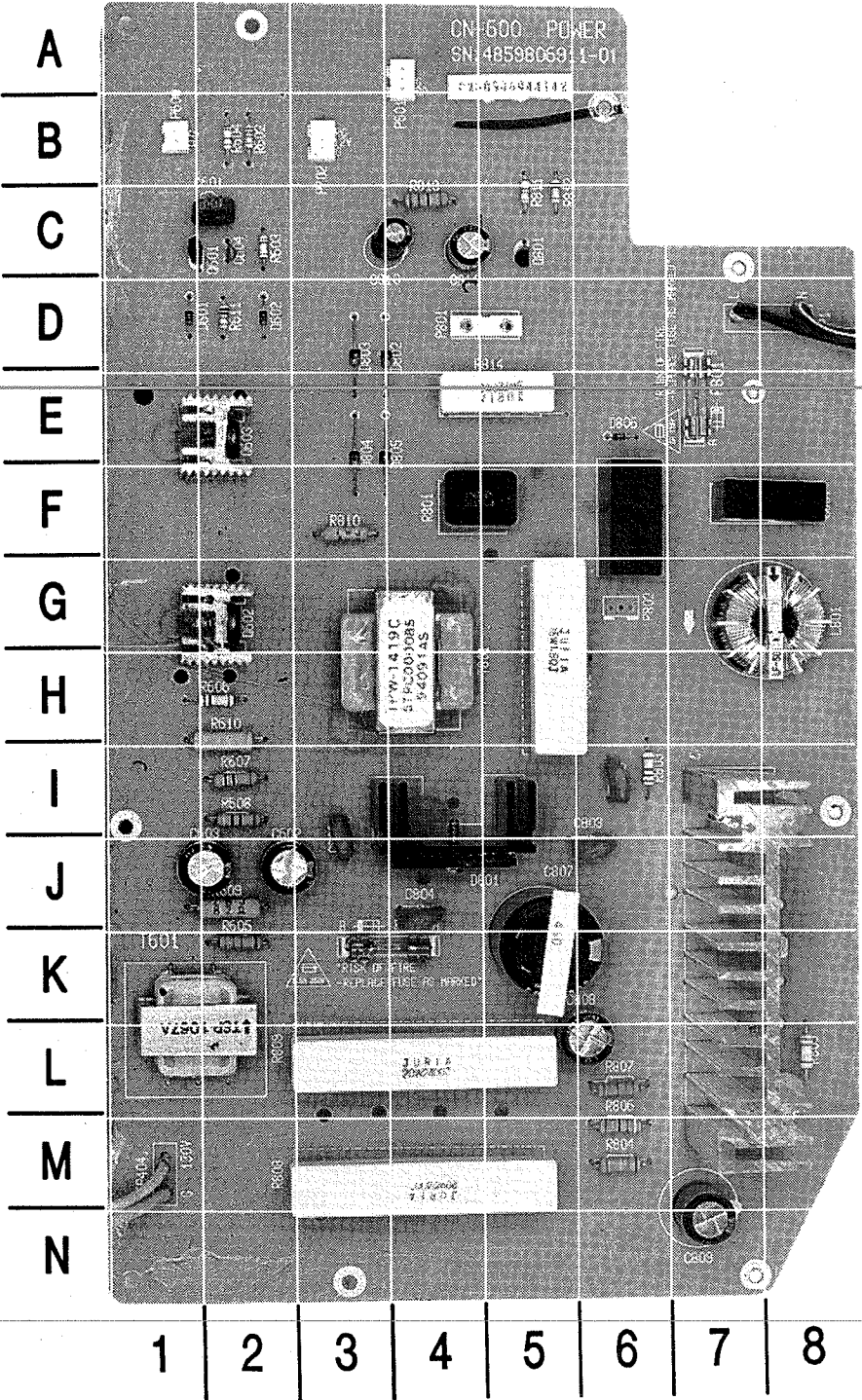
POWER SUPPLY BOARD

MAIN BOARD, GRIDTRACE LOCATION GUIDE

C101	C-12	C423	G-7	D122	A-13	L202	H-14	R207	I-16	R423	I-2	R743	F-17
C102	C-12	C424	E-5	D123	A-13	L210	H-12	R210	J-11	R424	J-1	R744	F-17
C103	D-13	C425	D-7	D230	L-17	L301	B-8	R211	L-13	R425	L-9	R746	B-17
C104	F-13	C426	E-8	D231	L-17	L401	K-9	R212	L-13	R426	F-8	R747	B-17
C105	E-13	C427	E-7	D232	L-14	L402	M-10	R213	K-14	R427	F-7	R748	B-17
C110	E-12	C428	B-7	D240	M-13	L403	L-6	R214	K-14	R428	N-2	R749	B-16
C111	D-12	C429	D-7	D250	D-9	L404	M-8	R215	K-14	R429	K-7	R750	B-19
C112	D-11	C430	H-6	D301	D-5	L501	K-13	R216	I-12	R430	I-6	R751	C-18
C113	E-14	C431	G-6	D410	H-2	L502	D-10	R217	J-11	R431	I-5	R752	C-18
C114	G-14	C432	G-9	D411	F-6	L701	B-16	R220	J-11	R432	I-6	R753	B-17
C115	G-13	C433	N-2	D413	F-9	L702	C-16	R221	I-10	R433	G-6	R754	B-17
C116	H-13	C501	K-13	D414	H-9	L703	K-18	R222	I-11	R434	G-6	R755	B-17
C117	B-10	C502	J-12	D415	H-9	L780	M-19	R230	G-5	R435	G-6	R756	B-16
C118	F-14	C503	K-13	D416	H-8	L781	M-19	R231	G-5	R436	F-9	R757	B-16
C119	F-14	C504	J-14	D417	H-9	P701	B-15	R232	H-2	R437	G-8	R758	C-16
C120	H-14	C505	E-11	D418	F-11	P401	J-7	R233	L-16	R438	G-9	R759	C-16
C121	C-10	C506	E-10	D419	N-16	P403	I-1	R234	L-17	R501	K-13	R760	H-17
C122	I-13	C511	D-11	D420	H-3	P404	I-5	R235	M-17	R502	K-13	R761	H-17
C123	C-11	C512	D-11	D421	H-5	P501	E-8	R236	L-16	R503	I-11	R762	H-17
C124	C-11	C513	D-11	D422	H-5	Q101	Q-13	R237	L-16	R504	H-16	R763	H-17
C125	A-13	C701	B-16	D430	F-9	Q201	J-13	R238	M-13	R505	I-11	R764	H-16
C126	B-9	C702	B-16	D431	F-9	Q210	I-11	R240	M-13	R506	K-13	R765	H-16
C201	I-12	C703	A-17	D432	F-6	Q211	K-13	R241	L-16	R511	D-11	R766	J-17
C202	I-13	C704	A-16	D701	C-14	Q230	L-17	R242	I-10	R512	D-11	R767	J-18
C203	H-14	C705	C-16	D720	F-16	Q231	D-8	R243	I-11	R516	E-9	R768	J-18
C204	I-14	C706	C-16	D721	F-16	Q250	D-9	R244	L-16	R517	E-9	R769	L-15
C210	L-12	C707	C-15	D722	F-16	Q401	H-10	R245	D-8	R518	E-9	R770	A-16
C211	H-12	C708	C-15	D723	F-16	Q402	N-11	R247	D-8	R601	C-13	R771	A-15
C212	H-12	C709	C-17	D750	B-19	Q403	N-7	R248	D-9	R701	B-15	R772	A-15
C213	I-12	C710	C-17	D751	C-19	Q430	I-6	R250	E-9	R702	B-14	R773	D-15
C220	I-10	C711	C-17	D752	E-18	Q431	G-9	R251	E-9	R703	C-14	R774	L-15
C221	H-10	C712	E-18	D753	F-18	Q501	K-13	R252	D-9	R704	B-14	R775	J-17
C222	H-11	C713	E-17	D754	F-18	Q701	B-15	R301	G-10	R705	B-18	R776	J-17
C223	H-11	C714	E-16	D760	H-18	Q702	B-18	R302	H-10	R706	C-17	R777	J-17
C224	I-11	C731	N-16	D761	H-17	Q703	G-18	R304	A-6	R707	A-16	R778	J-16
C230	I-2	C732	N-17	D762	H-17	Q730	A-7	R305	B-5	R708	A-18	R781	L-19
C231	M-16	C733	K-18	D763	H-17	Q731	M-17	R306	B-5	R709	H-18	R782	K-19
C232	M-12	C750	C-18	D764	H-17	Q770	A-15	R307	C-5	R710	G-18	R783	F-16
C233	I-10	C760	I-18	D765	H-16	Q790	J-14	R308	C-5	R711	G-18	R784	F-16
C234	K-14	C761	J-18	D781	L-19	Q901	M-15	R309	C-5	R712	G-18	R785	M-18
C301	A-7	C762	I-17	D790	K-18	Q902	L-15	R310	C-5	R713	H-17	R786	M-17
C302	A-5	C763	I-17	D791	K-18	R101	J-11	R311	A-5	R714	H-17	R787	L-17
C303	A-5	C764	I-16	D792	K-18	R102	Q-12	R312	B-4	R715	G-18	R789	L-18
C304	C-5	C765	I-16	D793	K-18	R103	Q-13	R313	A-4	R716	I-18	R790	L-18
C305	B-4	C770	A-15	D901	M-15	R104	Q-13	R314	D-5	R717	I-18	R791	L-18
C306	E-6	C781	M-19	D902	M-15	R105	D-13	R401	F-10	R718	D-15	R792	L-18
C307	D-6	C782	N-18	D903	M-14	R106	D-12	R402	I-9	R719	F-15	R793	I-13
C401	F-10	C783	N-19	F501	L-13	R107	F-13	R403	I-9	R720	F-15	R794	I-14
C402	F-10	C784	N-19	I101	A-11	R110	D-12	R404	I-9	R721	F-15	R795	I-14
C403	H-10	C785	N-18	I301	B-6	R111	D-12	R405	M-11	R722	F-16	R901	M-15
C404	G-10	C786	N-18	I401	E-8	R112	E-13	R406	K-8	R723	F-16	R902	L-15
C405	N-10	C787	N-17	I402	E-7	R113	E-13	R407	K-8	R724	F-16	SF101	E-13
C406	N-10	C788	M-18	I501	F-13	R114	G-14	R408	L-8	R725	F-16	SW01	E-19
C407	K-6	C789	M-17	I701	B-16	R115	H-13	R409	N-10	R726	H-16	SW02	E-19
C408	L-7	C790	M-19	I702	D-18	R120	C-9	R410	I-2	R727	K-18	SW03	F-19
C409	M-7	C791	L-18	I703	M-18	R121	C-10	R411	F-5	R728	H-16	SW04	F-19
C410	H-1	C792	L-18	JP600	D-13	R122	J-13	R412	F-5	R730	H-16	SW05	G-19
C411	F-10	C793	L-18	JP702	C-15	R123	I-13	R413	F-11	R732	H-16	SW06	G-19
C412	F-11	C794	L-18	L101	C-12	R124	A-11	R414	J-1	R734	B-7	SW07	H-19
C413	M-9	C795	E-15	L102	C-13	R125	G-6	R415	F-10	R735	B-7	SW301	A-4
C414	K-6	C901	N-16	L103	E-13	R126	D-12	R416	N-12	R736	N-17	T401	N-9
C415	N-8	C902	M-16	L104	D-12	R201	H-12	R417	F-11	R737	N-17	T402	L-4
C416	M-6	CF101	E-14	L105	F-13	R202	I-13	R418	G-10	R738	E-15	TA01	A-1
C417	F-5	CF201	J-13	L106	H-14	R203	I-13	R419	N-8	R739	E-15	TU101	B-9
C420	I-3	CF202	H-14	L107	I-13	R204	J-13	R420	I-4	R740	E-15	X401	G-10
C421	H-4	D120	B-11	L120	C-11	R205	H-13	R421	I-4	R741	E-15	X511	D-11
C422	H-5	D121	A-13	L201	J-13	R206	H-14	R422	I-3	R742	E-17	X701	C-18

POWER SUPPLY BOARD, GRIDTRACE LOCATION GUIDE

C601	C-2	Q601	C-1
C602	J-2	Q602	G-2
C603	J-2	Q603	E-2
C604	C-2	Q801	C-5
C801	F-8	R602	B-2
C803	J-6	R603	C-1
C804	J-4	R604	B-2
C805	I-6	R605	K-2
C806	I-3	R606	H-2
C807	K-5	R607	I-2
C808	L-6	R608	I-2
C809	N-7	R609	J-2
C810	C-4	R610	H-2
C811	C-4	R611	D-2
D601	D-1	R801	F-4
D602	D-2	R802	G-4
D801	J-4	R803	I-6
D802	D-3	R804	M-6
D803	D-3	R805	L-8
D804	E-3	R806	M-6
D805	E-3	R807	L-6
D806	E-6	R808	M-4
F801	E-7	R809	L-4
F802	K-3	R810	F-3
I801	K-8	R811	C-4
JP404	M-1	R812	C-5
L801	G-7	R813	C-5
P1	D-8	R814	E-5
P600	B-1	RL01	F-6
P601	A-4	T601	K-2
P702	B-3	T801	G-4
P801	D-4		



A HOWARD W. SAMS GRIDTRACE™ PHOTO

DAEWOO MODELS DTQ-2605FC/FCG/FM/FMG/FN/FNG (CHASSIS CN-600)

MISCELLANEOUS ADJUSTMENTS

B+ CHECK

Connect a DC voltmeter to pin 4 of I801. Set brightness and picture to minimum. With AC line voltage set to 120VAC, the B+ should read 130V ±1V.

HIGH VOLTAGE CHECK

Tune in a picture. Connect a high voltage probe to CRT anode. High voltage must read between 25kV and 30kV.

RF AGC

Tune in a medium strength station. Rotate R111 clockwise until snow appears, then counterclockwise to a point where snow just disappears.

SUB BRIGHTNESS

Tune in a gray scale pattern. Set contrast and bright controls to center. Adjust R238 to gray scale 18%.

HORIZONTAL CENTERING

Tune in a picture. Adjust R415 for best horizontal centering.

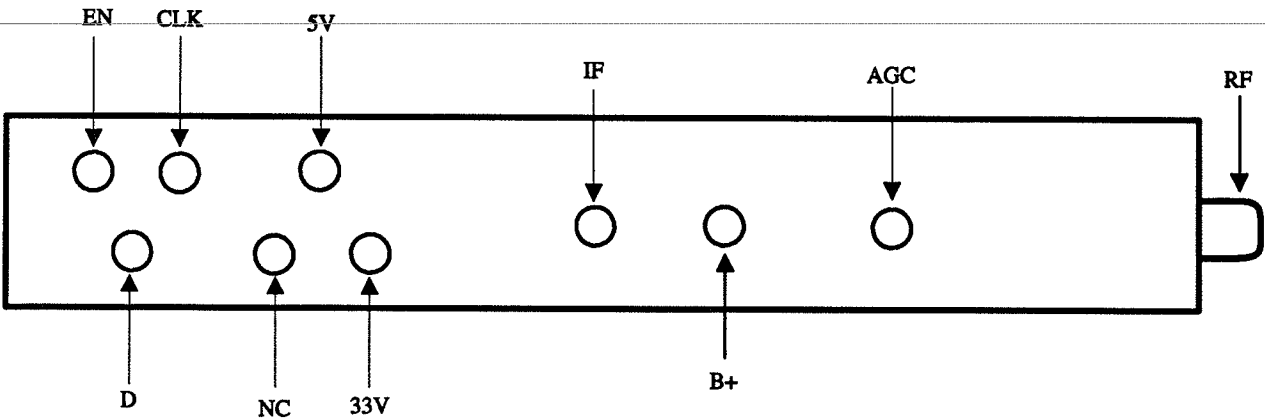
COLOR TEMPERATURE

Disconnect the antenna. Set the brightness, sharpness, tint, and picture to midrange. Set R582 and R583 to midrange. Set R579, R580, and R581 to minimum. Set S551 to service position. Adjust the screen control for a dim line of one dominant color. Adjust the two remaining cutoff controls for a white line. Set S551 to normal position. Tune in a black and white signal. Adjust drives for best black and white at high and low brightness.

TUNER INFORMATION

TUNER VOLTAGE CHART							
Pin	VHF Low Band	VHF High Band	UHF Band	Pin	VHF Low Band	VHF High Band	UHF Band
AGC	5.3V	5.1V	5.7V	D	.1V	.1V	.1V
B+	12.0V	12.0V	12.0V	EN	0V	0V	0V
IF	0V	0V	0V	NOTE: VHF Low Band voltages taken on channel 2. VHF High Band voltages taken on channel 7. UHF Band voltages taken on channel 14.			
33V	32.0V	32.0V	32.0V				
5V	5.0V	5.0V	5.0V				
NC	0V	0V	0V				
CLK	0V	0V	0V				

TUNER TERMINAL GUIDE



TROUBLESHOOTING

POWER SUPPLY

Check fuse F801. If F801 is open, check D801, C801, and C803 thru C807. Apply 120VAC, check for 150V at pin 3 of I801. If 150V is missing, check F802, I801, and C808. If 150V is present, check for 130V at pin 4 of I801. If 130V is missing, check I801. Check the standby voltages, check for 16.5V at the cathode of D803 and 5V at the out pin of I701. If all sources are present, refer to the "Horizontal" section of this Troubleshooting guide.

HORIZONTAL

Determine if the set is in shutdown. refer to the "High Voltage Shutdown" section of this Troubleshooting guide. If set is not in shutdown, inject a horizontal signal at the base of Q403. If horizontal deflection is now present, check Q402 and pins 22 thru 25 of I501. If there is still no horizontal deflection. Check Q403 and T402. Check D420 thru D422 for defects. The high voltage rectifier is part of T402 and if defective will affect the operation of the horizontal circuits. If the horizontal oscillator is off frequency, check pin 25 of I501. For horizontal linearity or width problems, check C408, C409, C413, C414, and C416.

HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC to the set. Depress the power button. Momentarily connect a 30K ohm across R411. The set should lose raster and sound and remain in that state. If the set does not lose raster and sound, the high voltage shutdown circuit should be repaired. To resume normal operation remove AC power and wait 15 seconds and test the set for normal operation.

HIGH VOLTAGE SHUTDOWN

The high voltage is monitored by D410 rectifying pulses from T402. Should the high voltage increase, the voltage at the cathode of D410 will also increase, the voltage at the cathode of D411 will cause D411 to turn on. This action triggers the shutdown circuit to disable the horizontal oscillator inside I501, shutting down the set.

To troubleshoot, remove D411 from the circuit and use a variable AC power supply. Start at 90VAC and increase as necessary to locate and repair the defect. Return D411 to the circuit.

VERTICAL

Inject a vertical drive signal at pin 2 of I301. If vertical deflection is now present. Check pin 28 of I501. If there is still no vertical deflection. Check I501 and associated components. Vertical linearity or height problems may be caused by vertical feedback and bias circuits, check C301, C304, C305, and C307.

IF AGC

Inject a video IF signal at the base of Q101 and check for video on CRT. If video is present, check the tuner, tuner control, and tuner AFT circuit. If there is no video on the CRT, check for a video waveform at pin 44 of I501. If video waveform is present, refer to the "Video" section of this Troubleshooting guide. If there is no video waveform at pin 44 of I501, apply an AGC bias to pin 2 of I501. If video waveform is now present at pin 44, check I501. If there is still no video at pin 44 of I501, check I501, and Q101. A defective AGC circuit can cause an overloaded picture, excessive snow, or loss of audio and video.

VIDEO

Inject a video signal at pin 44 of I501 and check for video on the CRT. If video is present, refer to the "IF AGC" section of this Troubleshooting guide. If video is not present on the CRT, check for a video waveform at pin 34 of I501. If video waveform is present, check for video waveforms at pins 18, 19, 20, and 21 of I501. If there are no video waveforms, check I501. If video waveform is missing at pin 34 of I501, check Q201, Q210, Q211, F501, and I501. If video waveform is present at pins 18, 19, 20, and 21 of I501, check the CRT and CRT voltages.

RASTER

Check the CRT and the CRT voltages. If there is no red, check Q551, Q554, and pin 18 of I501. If there is no green, check Q552, Q555, and pin 19 of I501. If there is no blue, check Q553, Q556, and pin 20 of I501. If the raster has keystone shape, check the deflection yoke. If the raster has height or width problems, refer to "Vertical," "Horizontal," and "Power Supply" sections of this Troubleshooting guide.

AUDIO

Select an active channel and check for an audio waveform at pin 6 of I501. If there is no waveform, check pins 1, 3, 5, and 48 of I501. If the waveform is present, check for an audio waveform at the collector of Q601. If waveform is missing, check Q601. If the waveform is present, check for audio at the emitter of Q602 and Q603. If the waveform is missing, check Q602, Q603, and C603.

CHROMA

Check for a chroma waveform at pin 36 of I501. If the waveform is missing, check F501, Q501, and pin 38 of I501. If a chroma waveform is present at pin 36 of I501, check for the proper waveforms at pins 18, 19, and 20 of I501. If these waveforms are missing, check the 3.58MHz oscillator at pin 13 of I501. If the proper waveforms are present at pins 18, 19, and 20 of I501, refer to the "Raster" section of this Troubleshooting guide.

MAIN BOARD

