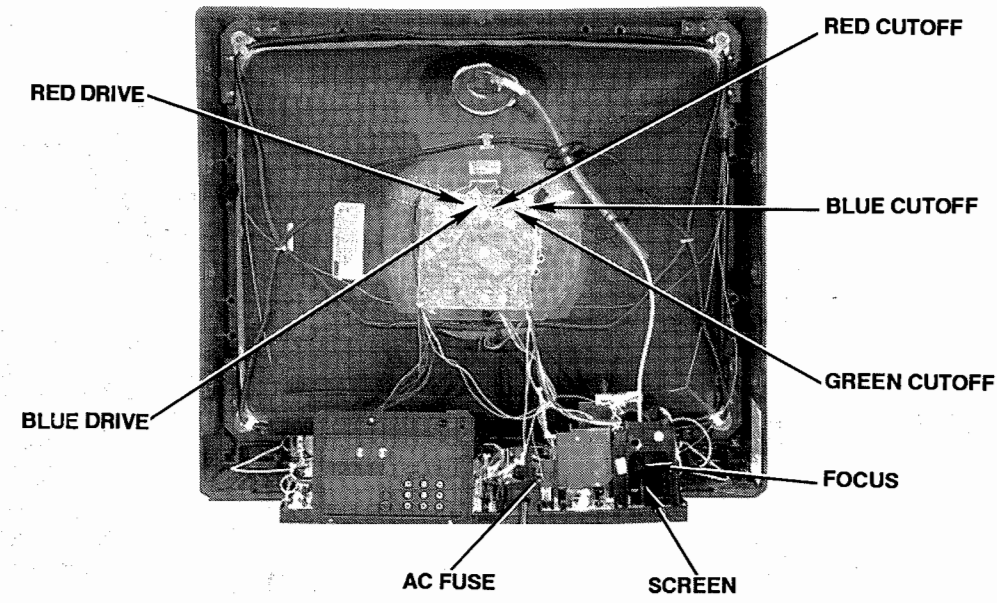


CABINET - REAR VIEW



TEST JIG HOOKUP

Function	Check-A-Color Adapter No.	PC Board Plug	Pin	Color
CRT	B239	# DY	1	Red
Yoke	D482		2	Blue
Yoke Setting	YP1A		3	Yellow
Comments	Focus Tap		4	Black

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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PHOTOFACT® Technical Service Data

SET 3018

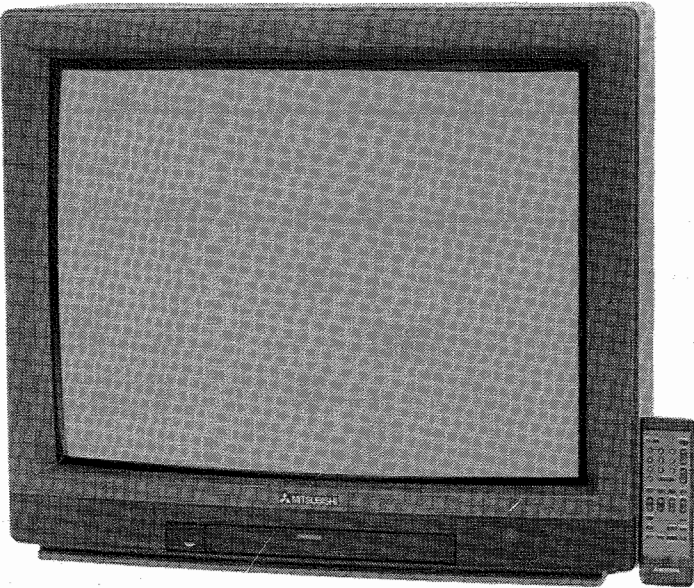
MODELS CS-3115R, CS-2715R

MITSUBISHI

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MITSUBISHI
Models CS-3115R, CS-2715R



Essential coverage
for servicing a television receiver...

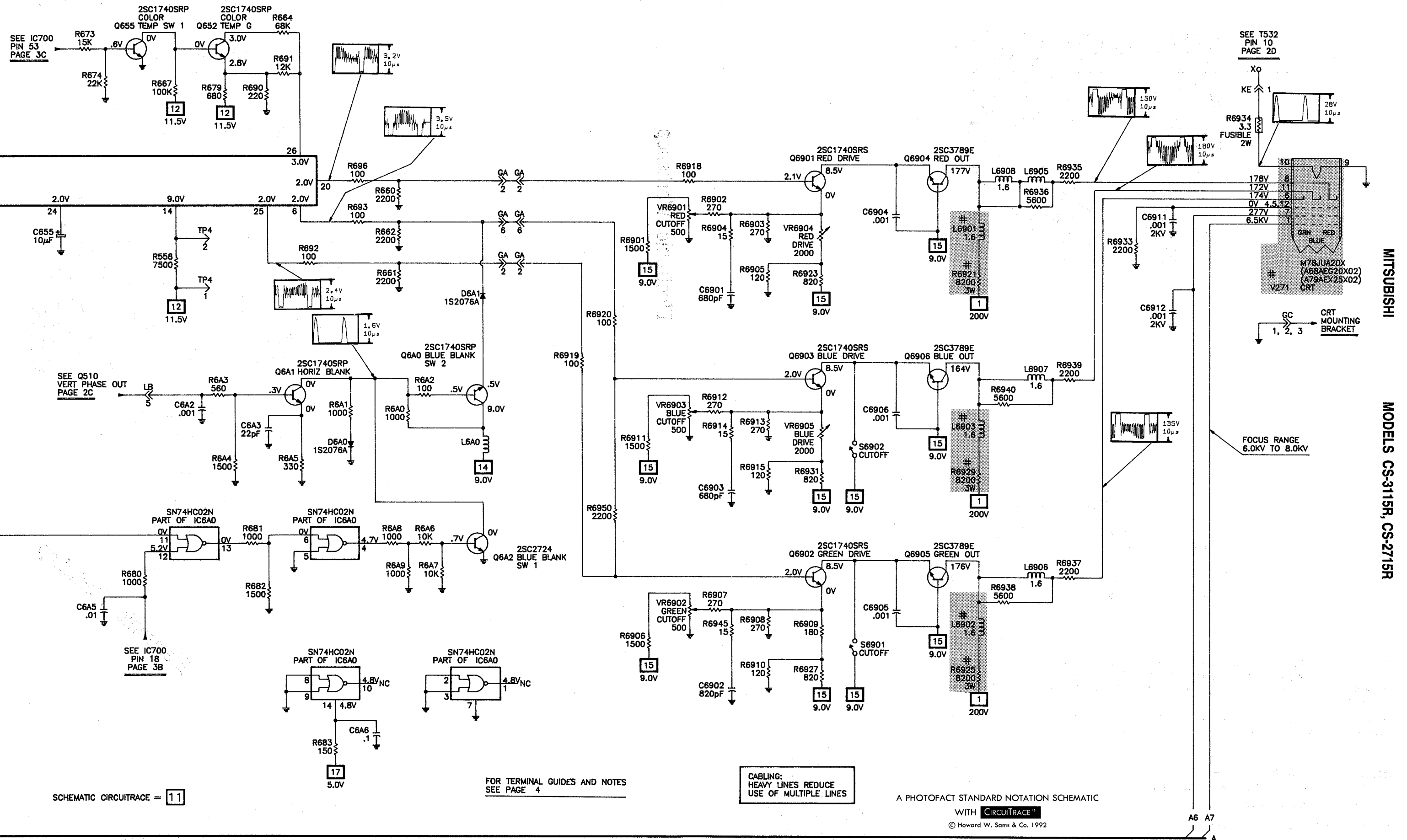
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- Parts lists



HOWARD W. SAMS & COMPANY

JULY 1992 SET 3018

HIGH LIGHT/CRT SCHEMATIC



PARTS LIST continued

SEMICONDUCTORS continued

(Select replacement for best results.)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
Q200 - Q203	2SC1740SRQ	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
Q205	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SA950Y	-	NTE290A	ECG290A	SK3841
	2SA950-Y	260P255040	NTE290A	ECG290A	SK3841
Q206	2SA933SRR	-	NTE290A	ECG290A	SK9132
	2SA933S-S	260P560040	NTE290A	ECG290A	SK9132
	2SA933S-R	-	NTE290A	ECG290A	SK9132
Q207, 9	2SC1740SRQ	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
Q301	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SC1740SRQ	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
Q351, 2, 3	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SC1740SRM	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
# Q505	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SC2073	-	NTE375	ECG375	SK3929
	2SC2168-O	260P428020	NTE375	ECG375	SK3929
Q510	2SC2168-Y	-	NTE375	ECG375	SK3929
	2SC1740SRT	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
Q531	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SC2482	260P422010	NTE399	ECG399	SK9352
# Q532	2SD1879	260P608010	NTE2331	ECG2331	SK10088
Q600	2SC1740SRP	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137

For SAFETY use only equivalent replacement part.

SEMICONDUCTORS continued

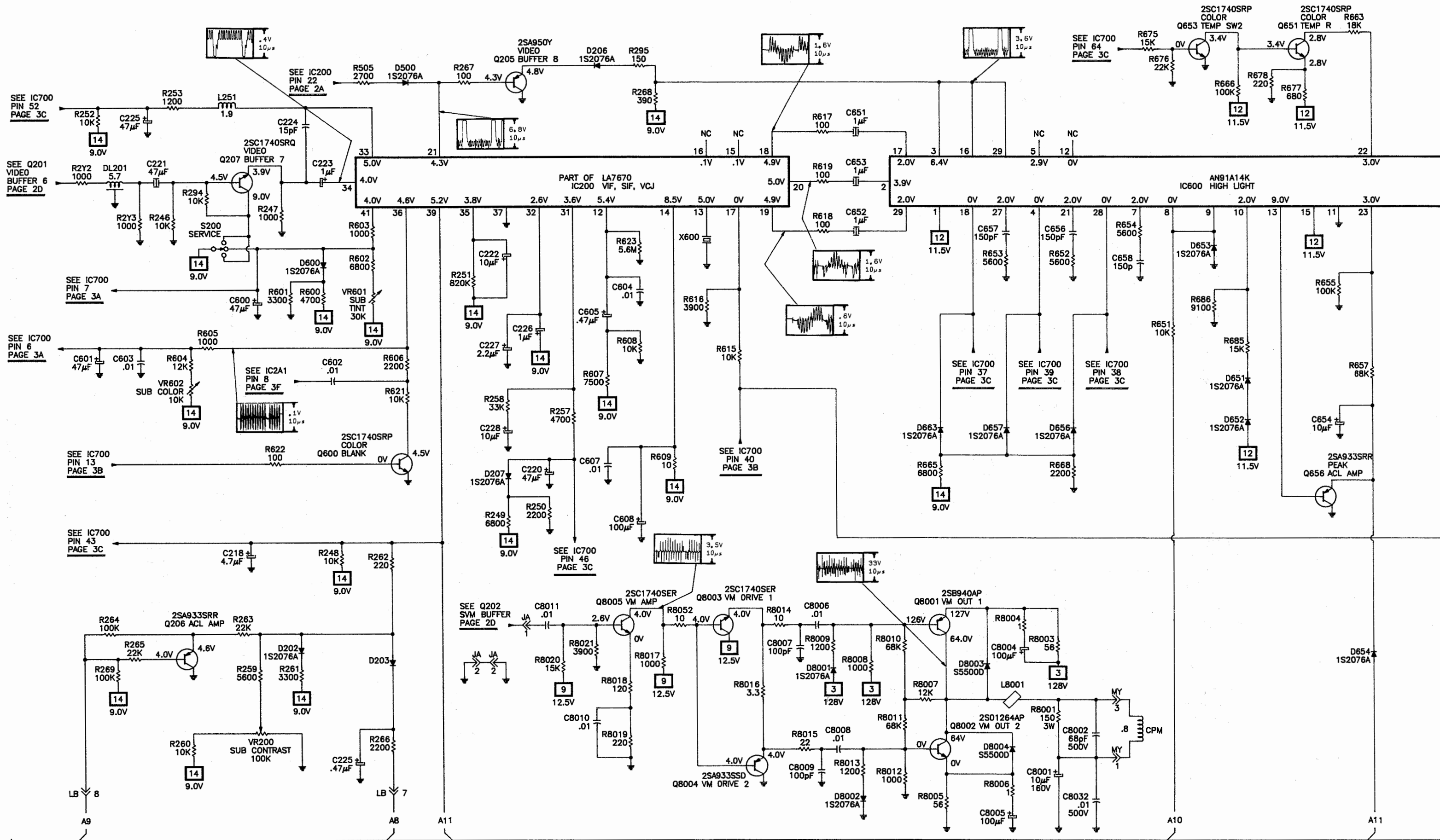
(Select replacement for best results.)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
Q651, 2, 3, 5	2SC1740SRP	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
Q656	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SA933SRR	-	NTE290A	ECG290A	SK9132
	2SA933S-S	260P560040	NTE290A	ECG290A	SK9132
	2SA933S-R	-	NTE290A	ECG290A	SK9132
	2SA1115-E	-	NTE290A	ECG290A	SK9138
Q700	2SA1115-F	-	NTE290A	ECG290A	SK9138
	2SA933SRR	-	NTE290A	ECG290A	SK9132
	2SA933S-S	260P560040	NTE290A	ECG290A	SK9132
	2SA933S-R	-	NTE290A	ECG290A	SK9132
	2SA1115-E	-	NTE290A	ECG290A	SK9138
Q701 - Q707	2SA1115-F	-	NTE290A	ECG290A	SK9138
	2SC1740SRR	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
Q708	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SC1740SER	-	NTE85	ECG85	SK3122
	2SC1740S-E	260P559050	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
Q709	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SC2603G	-	NTE289A	ECG289A	SK9137
	2SC1740SRR	-	NTE85	ECG85	SK3122
Q710	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
Q902	2SA933SRR	-	NTE290A	ECG290A	SK9132
	2SA933S-S	260P560040	NTE290A	ECG290A	SK9132
	2SA933S-R	-	NTE290A	ECG290A	SK9132
	2SA1115-E	-	NTE290A	ECG290A	SK9138
	2SA1115-F	-	NTE290A	ECG290A	SK9138
Q902	2SC1740SRT	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137

MITSUBISHI

MODELS CS-3115R, CS-2715R

VIDEO/HIGH LIGHT SCHEMATIC



PARTS LIST

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.

- B&K Precision
- Custom Components Corporation (Chek-A-Color)
- EVG / Russell Industries, Inc.
- NTE Electronics, Inc. (NTE)
- Philips ECG Company (ECG)
- PTS Electronics Corporation (PTS)
- Quam-Nichols Co. (Quam)
- Sencore, Inc.
- Thomson Consumer Electronics, Inc. (SK, TCE)

SEMICONDUCTORS

(Select replacement for best results.)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
D2A0, 1	EQA02-07CD	-	NTE5014A	ECG5014A	SK6A8
	RD7.5FB2	264P485060	NTE138A	ECG138A	SK7V5
D2X0	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D4E1	EQA02-10D	-	NTE5019A	ECG5019A	SK10A
	RD11EB2	264P464060	NTE5020A	ECG5020A	SK11A
# D4E2	ERA15-02	-	NTE552	ECG552	SK9000
D4E4	EQA02-25C	-	-	-	-
	RD27EB3	264P469050	NTE5033A	ECG5033A	SK27A
# D5G4	RU3B	264P102020	NTE552	ECG552	SK3318A
# D5G5	TVR1G	264P231010	NTE552	ECG552	SK9000
# D5G6	HZT33-10	-	NTE615P	ECG615A	SK9976
	HZT33-02	264P244020	NTE615P	ECG615A	SK9976
D5G7	EQA02-33A	264P471010	NTE5036A	ECG5036A	SK33A
	RD7.5EB1	-	NTE5014A	ECG5014A	SK6A8
D5G8	HZ4CLL	-	-	-	-
	HZ4C11	264P501090	-	-	-
D5G9	ERA15-02	264P825010	NTE552	ECG552	SK9000
D5H0	EQA02-33B	264P471020	-	-	-
	RD36EB2	-	NTE5036A	ECG5036A	SK33A
# D5H1	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D5H2	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D5H4	EQA02-08C	264P463020	NTE5016A	ECG5016A	SK8A2
	RD8.2EB2	-	NTE5016A	ECG5016A	SK8A2
D5H5	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D6A0, 1	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D7A1	EQA02-05C	264P460060	NTE5010A	ECG5010A	SK5A1
D7A2	EQA02-09D	-	NTE5018A	ECG5018A	SK9A1
	RD10EB1	264P463090	NTE5018A	ECG5018A	SK9A1
D7X0	LN35GP	264P225020	-	-	-
D7X1	HZ3BLL	264P501050	NTE5004A	ECG5004A	SK3A0
D7X2	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D100	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D101	HZ5ALL	264P502010	-	-	-
D202, 3	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D207, 8	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D351 - D354	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D459	EQA02-05C	264P460060	NTE5010A	ECG5010A	SK5A1
D460	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100

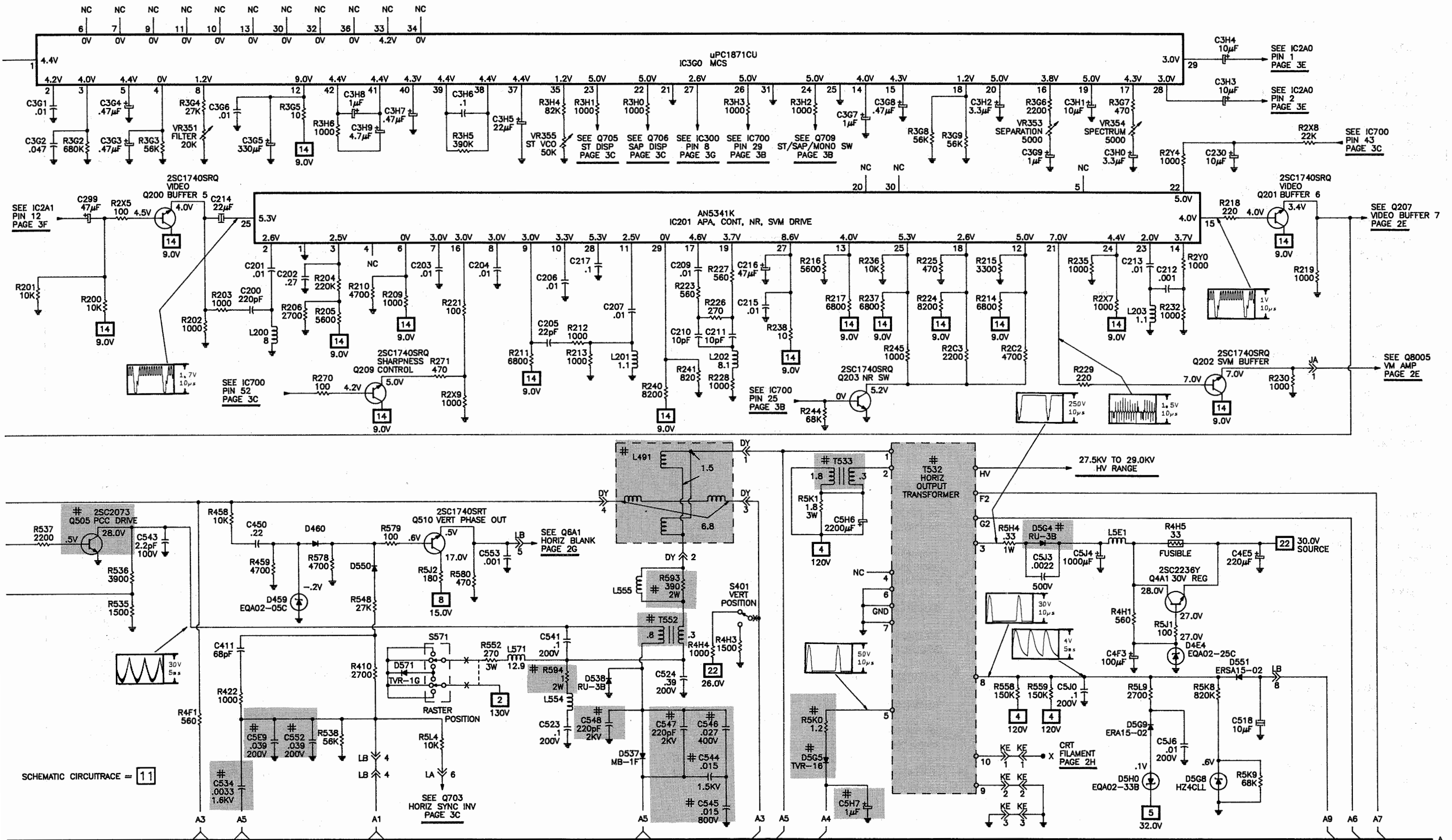
For SAFETY use only equivalent replacement part.

SEMICONDUCTORS continued

(Select replacement for best results.)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
D500, 1	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
# D502	EQA02-08B	264P463010	NTE5015A	ECG5015A	SK7A5
	RD8.2EB1	-	NTE5015A	ECG5015A	SK7A5
D509	EQA02-11D	-	NTE5020A	ECG5020A	SK11A
	RD12FB3	264P487090	NTE142A	ECG142A	SK12V
D537	MB-1F	-	NTE551	ECG551	SK3125A
	RH-2F	-	NTE558	ECG558	SK3998
	MB-1FS	264P157040	NTE558	ECG558	SK3998
	RH-2FS	-	NTE558	ECG558	SK3998
D538	RU3B	264P102020	NTE552	ECG552	SK3318A
D549	RP1H	264P528010	-	-	-
D550	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D551	ERA15-02	264P825010	NTE552	ECG552	SK9000
D571	TVR1G	264P295020	NTE552	ECG552	SK9000
	ES1	-	NTE552	ECG552	SK9000
D600	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D651 - D654	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D656, 7	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D663	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D700, 1, 2	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D707, 8, 9	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
# D901	RBV-408	-	NTE5311	ECG5311	SK5031
	RBV-40C	264P512020	NTE5311	ECG5311	SK5031
# D902	RU1P	264P522010	NTE552	ECG552	SK9000
D904	RU3	-	NTE580	ECG580	SK3318A
	RU3B	264P102020	NTE552	ECG552	SK3318A
D905	EG01	264P543010	NTE116	ECG116	SK3312
# D906	RU-4Z	-	NTE580	ECG580	SK5036
	RU4AM	264P358070	NTE580	ECG580	SK5036
D907	EU-2	-	NTE552	ECG552	SK9000
	EU2	264P521030	NTE552	ECG552	SK9000
# D908	EU-1A	264P521040	NTE552	ECG552	SK9000
# D909	RU-4A	264P358040	NTE506	ECG506	SK3925
# D910	RU4AM	264P358070	NTE580	ECG580	SK5036
# D911	S1WB10	-	NTE5332	ECG5332	SK9230
	S1WB(A)10	264P508010	NTE5332	ECG5332	SK9230
D912, 13	ERA15-02	264P825010	NTE552	ECG552	SK9000
D915	EU1	-	NTE552	ECG552	SK9000
	EU1A	264P521040	NTE552	ECG552	SK9000
D5002	EQA02-05A	264P460040	NTE5009A	ECG5009A	SK4A7
	RD4.7EB2	-	NTE5009A	ECG5009A	SK4A7

For SAFETY use only equivalent replacement part.



PARTS LIST continued

SEMICONDUCTORS continued

(Select replacement for best results.)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
# D6907	S5500D	264P285010	NTE116	ECG116	SK3313
	EM1Z	-	NTE552	ECG552	SK9000
D8001, 2	1S2076A	-	NTE519	ECG519	SK3100
	1S2471	264P045040	NTE519	ECG519	SK3100
D8003, 4	S5500D	264P285010	NTE116	ECG116	SK3313
	EM1Z	-	NTE552	ECG552	SK9000
D8007	EQA02-12A	-	NTE5022A	ECG5022A	SK13A
	RD13ED1	264P488020	NTE5022A	ECG5022A	SK13A
IC2A0	TA8720AN	272P628010	-	-	-
IC2A1	M51320P	266P064010	-	-	-
IC2X0	L78M09	266P931010	NTE1902	ECG1902	SK3962
IC3G0	UPC1871CU	272P351020	-	-	-
# IC4E1	LA7838	272P239040	-	-	-
# IC4E1(12)	LA7837	272P239030	NTE1855	ECG1855	SK10085
IC6A0	SN74HC02N	263P299010	-	-	-
# IC6X0	7812(IC)	-	NTE966	ECG966	SK3592
	UPC7812H	266P934040	NTE966	ECG966	SK3592
IC7A0	LA7911	266P197010	-	-	-
IC7X0	M50560-145P	263P798010	-	-	-
IC200	LA7670	272P630010	-	-	-
IC201	AN5341K	272P629010	-	-	-
IC300	LA7953	272P139010	-	-	-
IC301	LA4282	272P440010	-	-	-
# IC501	AN5551	272P132010	-	-	-
IC600	AN91A14K	272P631010	-	-	-
IC700	MN152121MTC	263P142040	-	-	-
IC701	MN1380-R	274P008040	-	-	-
IC702	CAT35C102HP	263P170030	-	-	-
IC703	78M05	-	NTE960	ECG960	SK3591
	UPC78M05H	266P922020	NTE960	ECG960	SK3591
# IC901	STRS5141G	-	-	-	-
	STR-S5141G	272P255010	-	-	-
# IC901(12)	STR-S5041G	272P255020	-	-	-
Q2A0	2SA933SRR	-	NTE290A	ECG290A	SK9132
	2SA933S-S	260P560040	NTE290A	ECG290A	SK9132
	2SA933S-R	-	NTE290A	ECG290A	SK9132
	2SA1115-E	-	NTE290A	ECG290A	SK9138
	2SA1115-F	-	NTE290A	ECG290A	SK9138
Q2A1	2SC1740SRR	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
Q2A2	2SC2274F	-	NTE289A	ECG289A	SK3124A
	2SC2274-F	260P416030	NTE289A	ECG289A	SK3124A
Q4A1	2SC2236Y	-	NTE382	ECG382	SK3849
	2SC2236-Y	260P387030	NTE382	ECG382	SK3849

For SAFETY use only equivalent replacement part.
 (12) Used in Model CS-3115R.

SEMICONDUCTORS continued

(Select replacement for best results.)

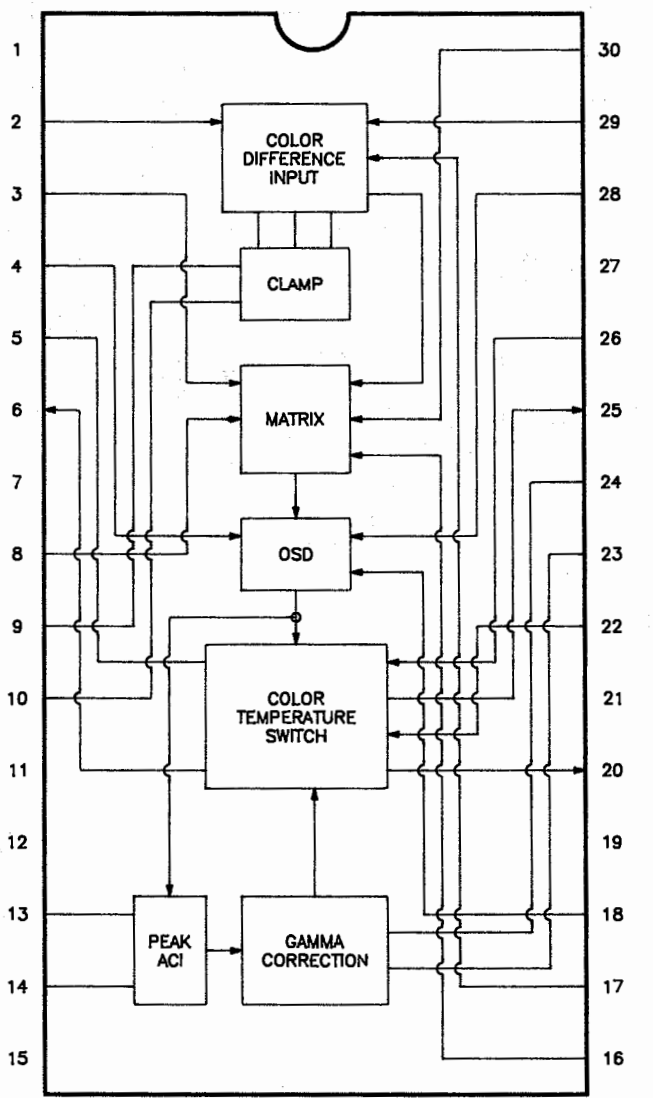
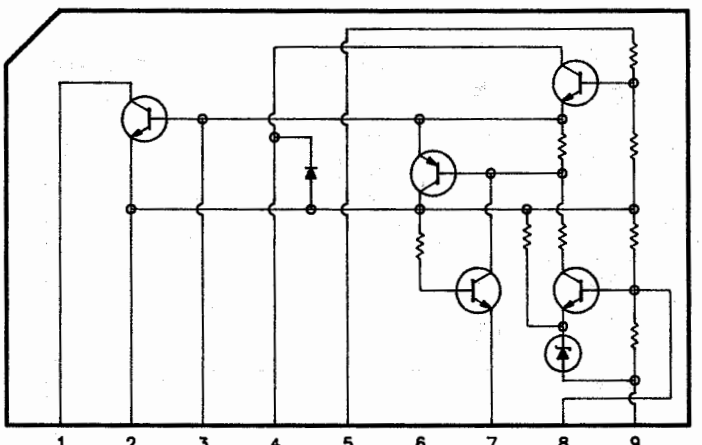
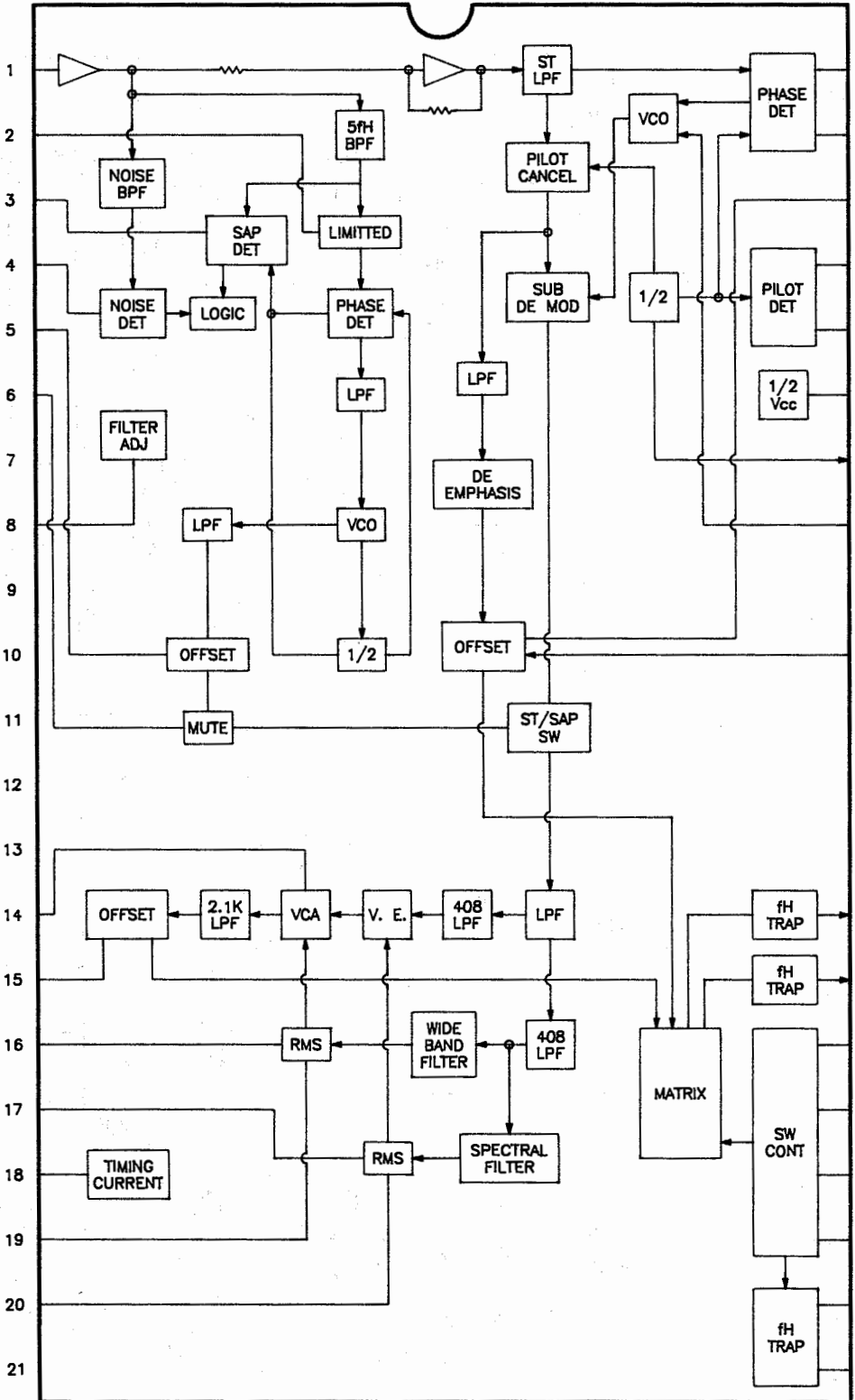
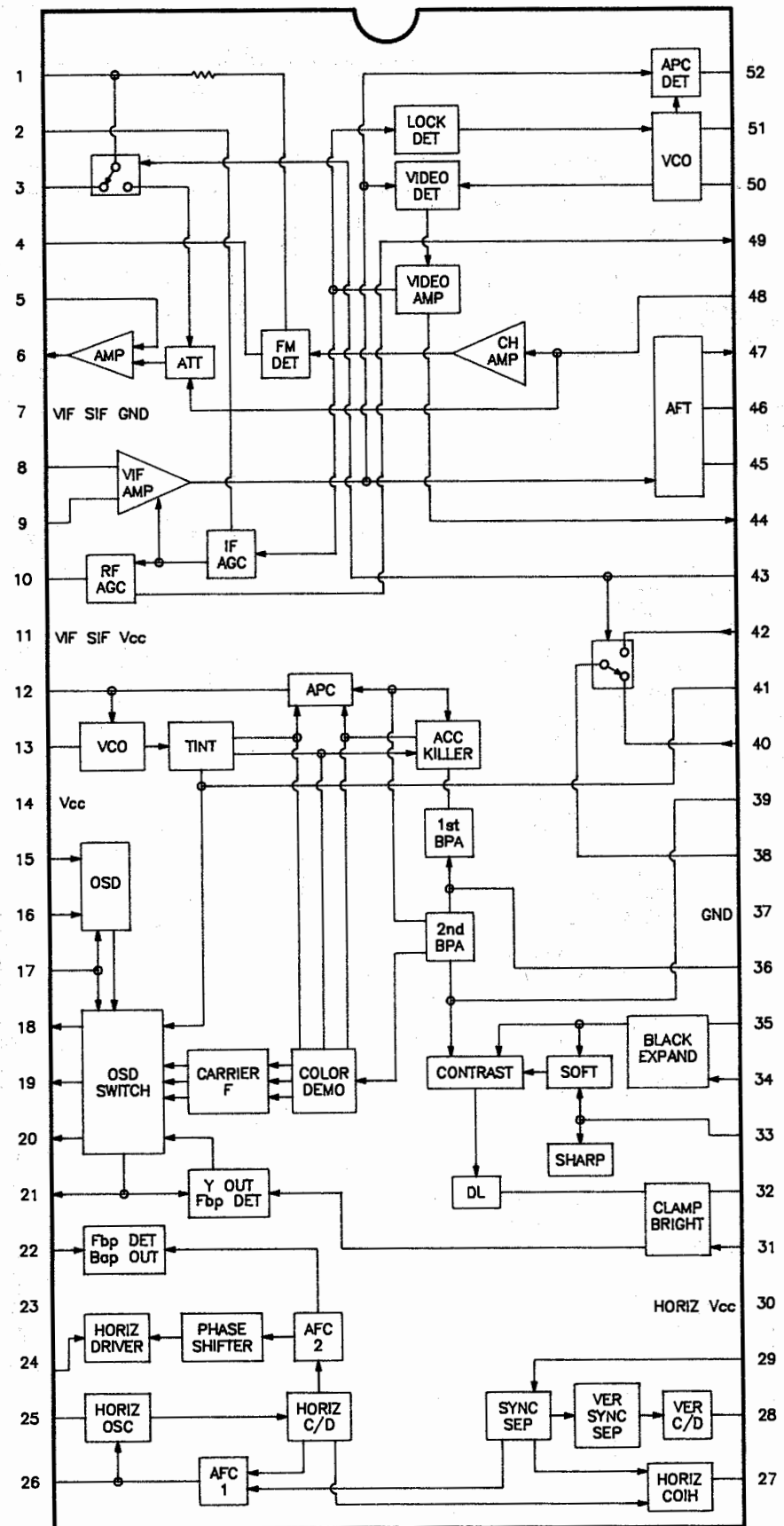
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
Q5A4, 5	2SC1740SRT	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
# Q5H1	2SC2274F	-	NTE289A	ECG289A	SK3124A
	2SC2274-F	260P416030	NTE289A	ECG289A	SK3124A
# Q5H3, 4	2SA933SSU	-	NTE290A	ECG290A	SK9132
	2SA933S-S	260P560040	NTE290A	ECG290A	SK9132
	2SA933S-R	-	NTE290A	ECG290A	SK9132
	2SA1115-E	-	NTE290A	ECG290A	SK9138
	2SA1115-F	-	NTE290A	ECG290A	SK9138
Q6A0, 1	2SC1740SRP	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
Q6A2	2SC2724	-	NTE289A	ECG289A	SK3122
	2SC2724-D	260P419030	NTE289A	ECG289A	SK3122
Q7X0 - Q7X2	2SC1740SRS	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
Q100, 101	2SC1906	260P356010	NTE107	ECG107	SK3293
Q102	2SC1740SRQ	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
Q103	2SA933SRR	-	NTE290A	ECG290A	SK9132
	2SA933S-S	260P560040	NTE290A	ECG290A	SK9132
	2SA933S-R	-	NTE290A	ECG290A	SK9132
	2SA1115-E	-	NTE290A	ECG290A	SK9138
	2SA1115-F	-	NTE290A	ECG290A	SK9138
Q104, 5	2SC1740SRP	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137

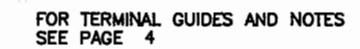
For SAFETY use only equivalent replacement part.

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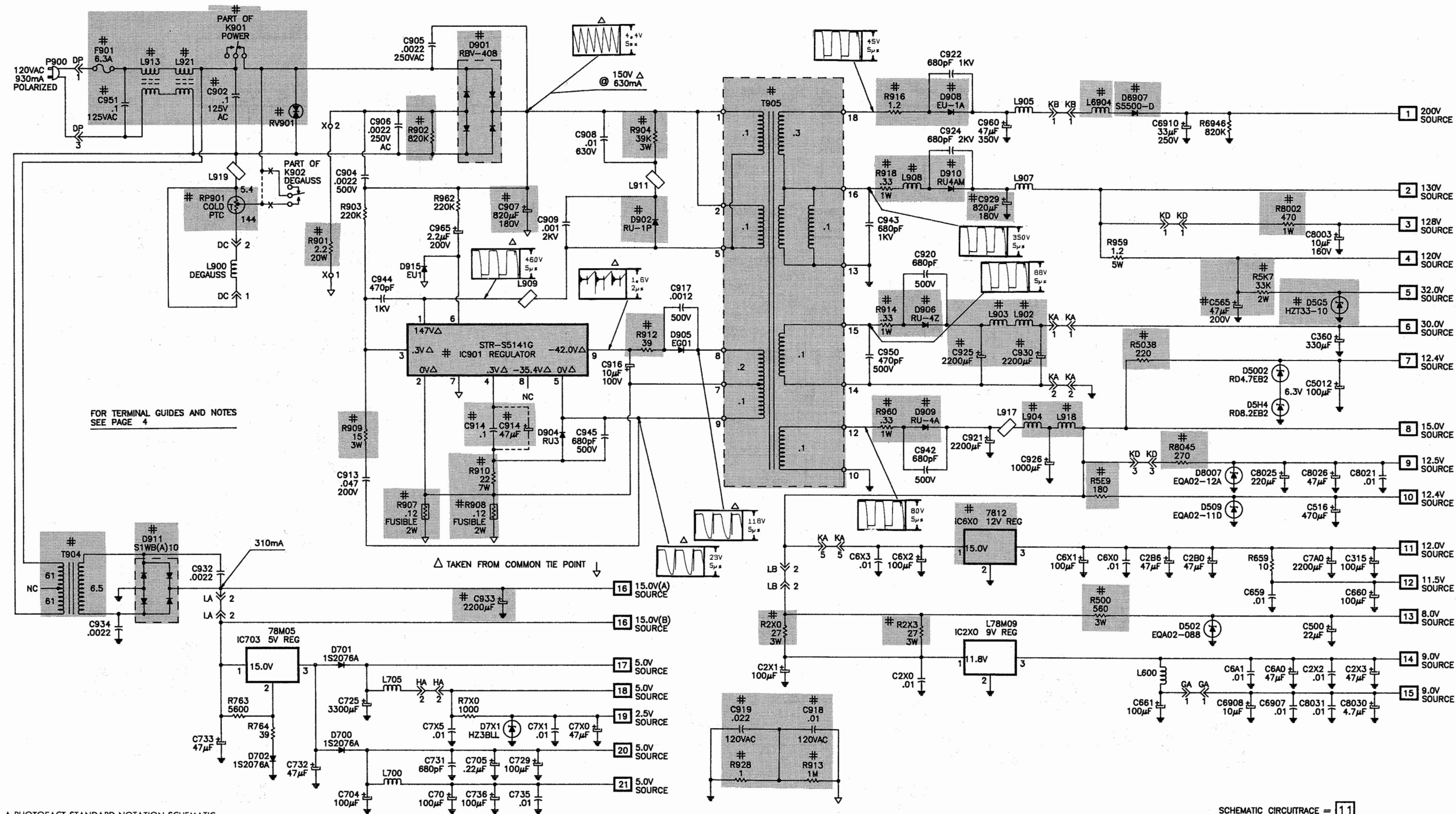
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IC FUNCTIONS





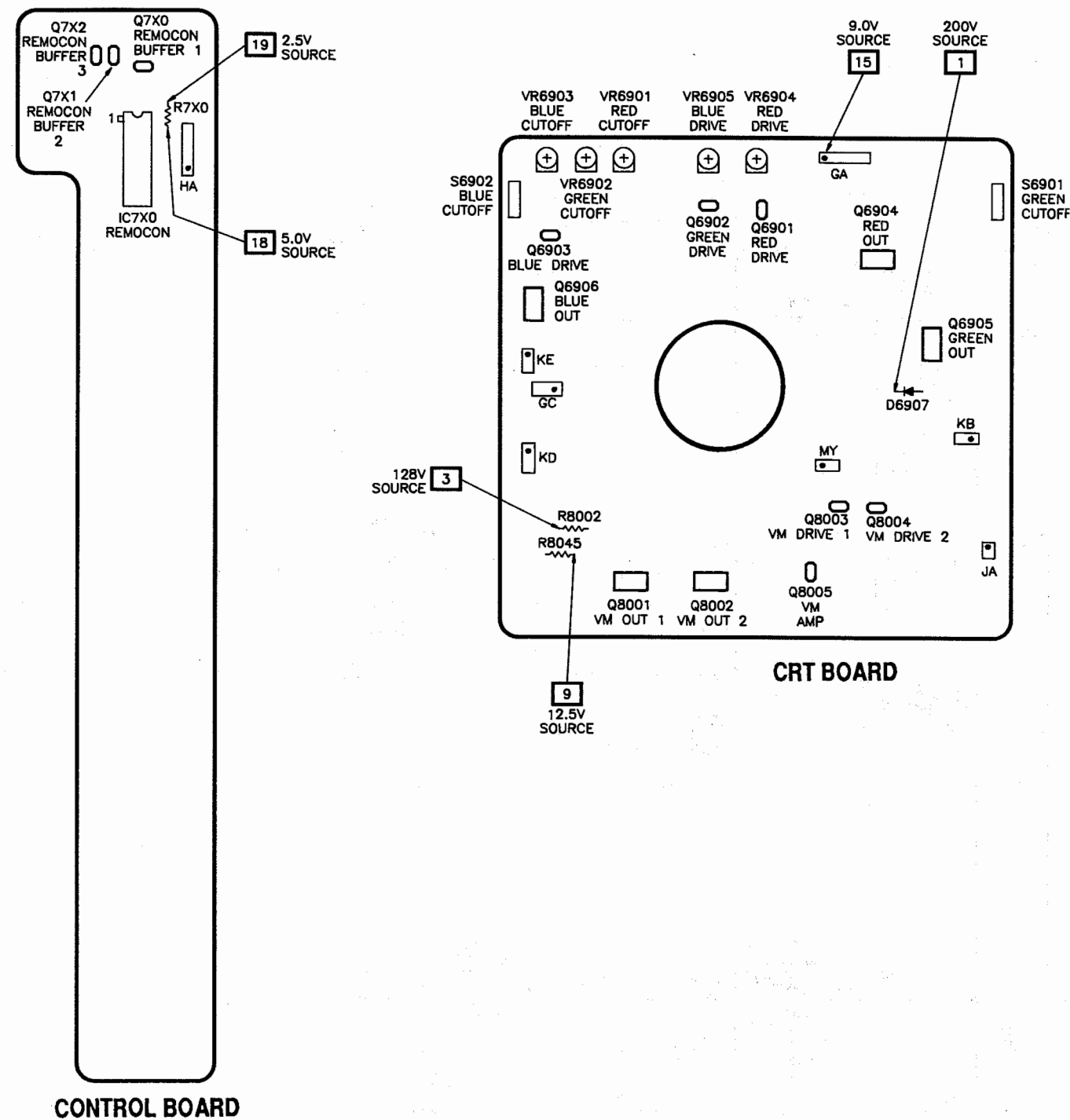
POWER SUPPLY SCHEMATIC



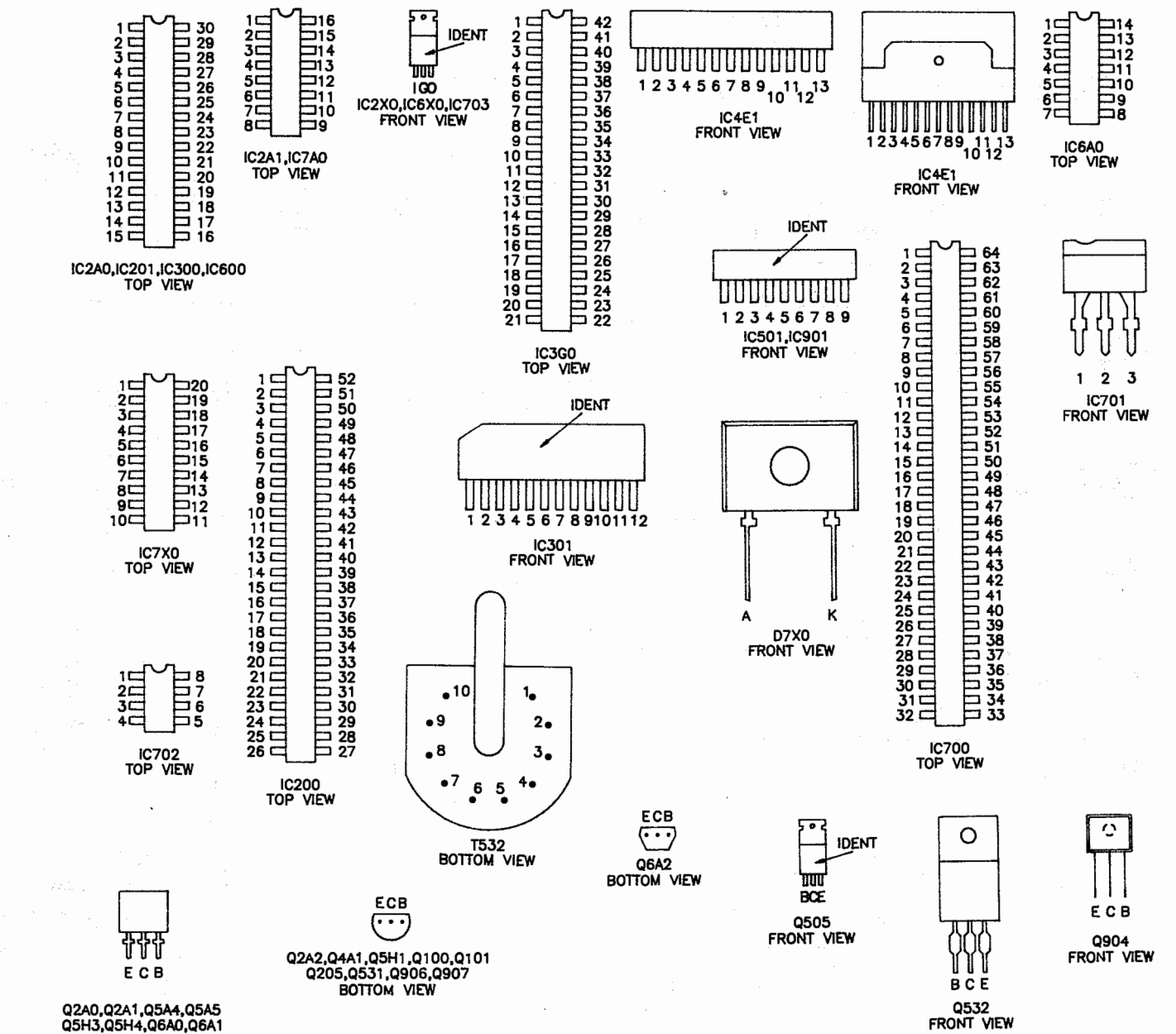


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WITH **CIRCUITRACE™**
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PLACEMENT CHART continued



TERMINAL GUIDES AND NOTES



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

~~X~~ Circuitry not used in some versions

--- Circuitry used in some versions

↓ Ground

 Chassis

Common tie point

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

Waveforms: triggered scope, keyed rainbow generator.

Item numbers in rectangles appear in adjustment instructions.
Supply voltage maintained as shown, at least.

Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal

Controls adjusted for normal operation.

Terminal identification may not be
Capacitors are 50 volts or less.

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

Electrolytic capacitors are 50 volts or less,

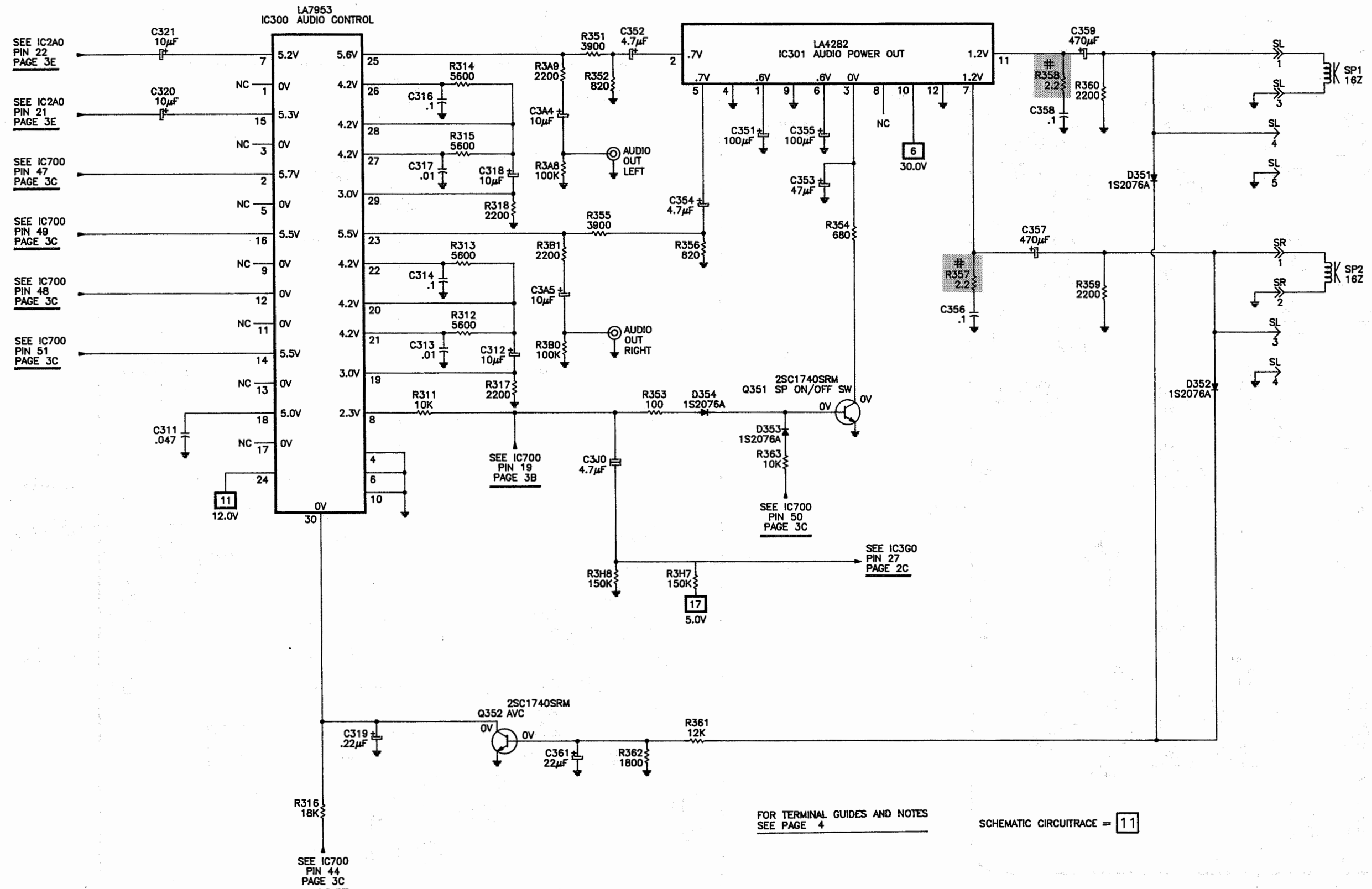
20% or greater unless noted.
Resistors are 1/2W or less.

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

Value in () used in some versions.

Measurements with switching as shown, unless noted.

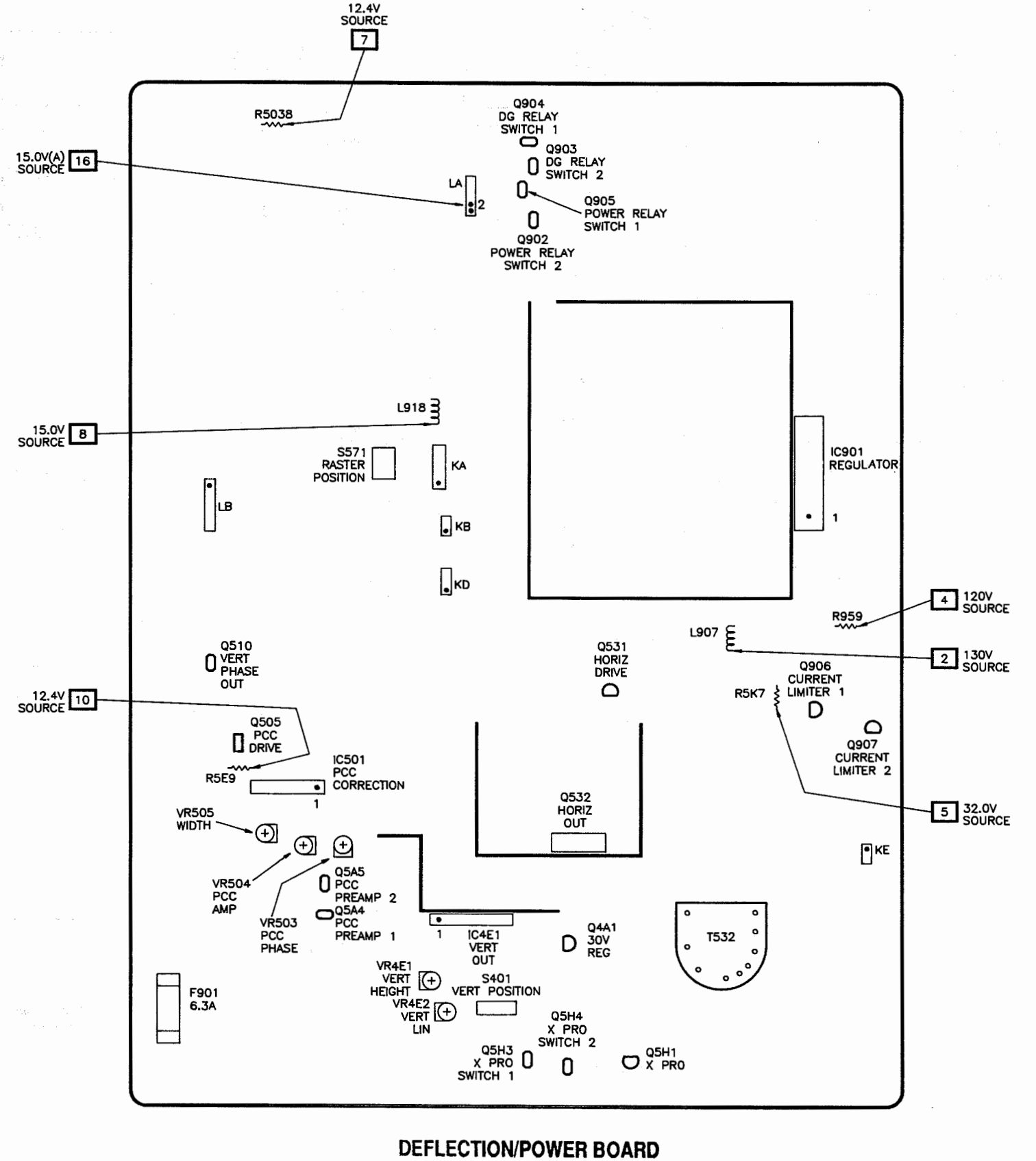
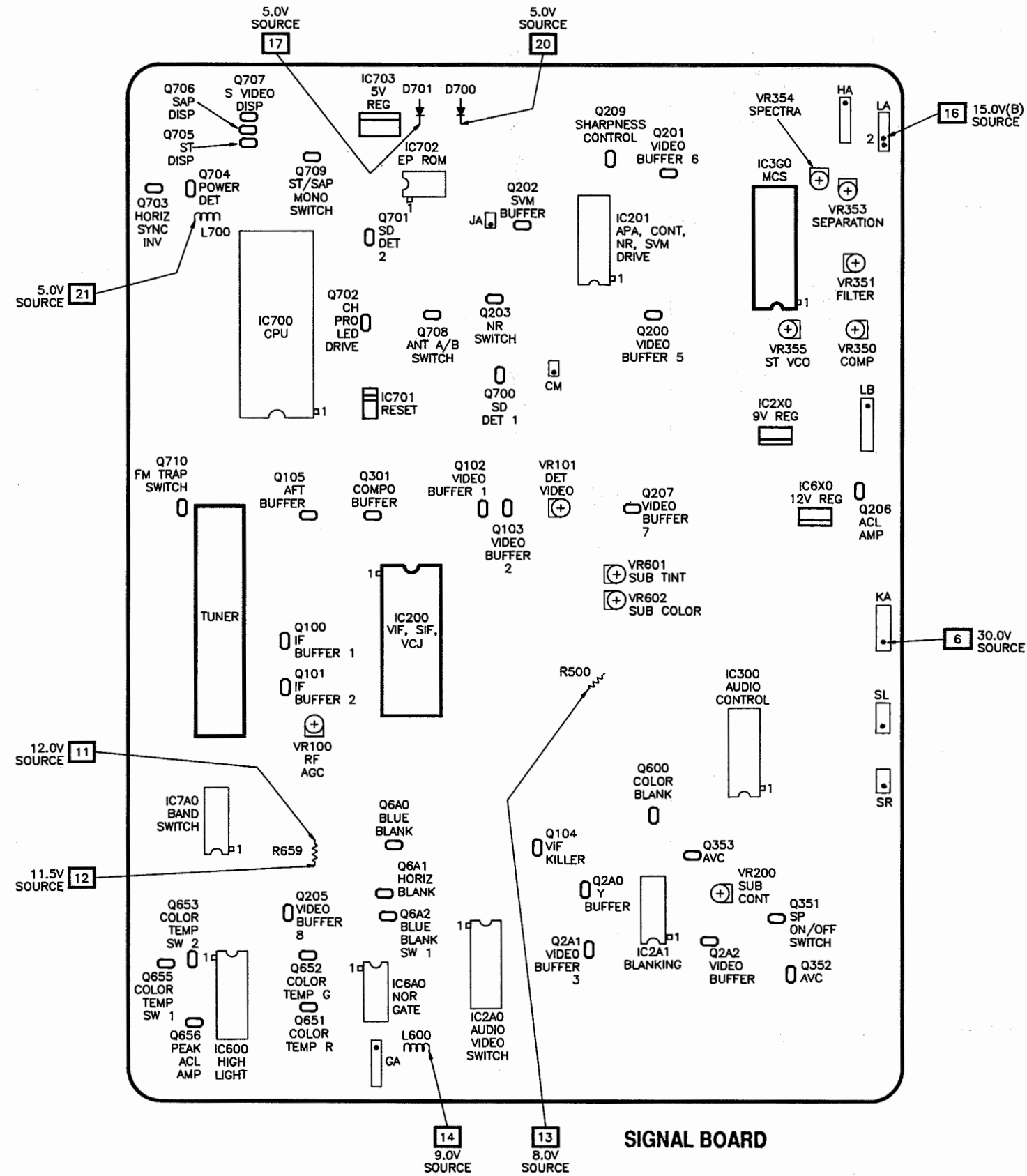
AUDIO SCHEMATIC



FOR TERMINAL GUIDES AND NOTES
SEE PAGE 4

SCHEMATIC CIRCUITRACE = 11

PLACEMENT CHART



PARTS LIST continued

SEMICONDUCTORS continued					
(Select replacement for best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
Q903	2SC1740SES	-	NTE85	ECG85	SK3122
	2SC1740S-E	260P559050	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
Q904	DTC124EST	-	NTE2357	ECG2357	SK9742
	DTC124ES	260P632010	NTE2357	ECG2357	SK9742
Q905	2SC1740SRT	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
Q906	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SA1371D	-	-	-	-
	2SA1371	260P561010	-	-	-
Q907	2SC2274F	-	NTE289A	ECG289A	SK3124A
	2SC2274-F	260P416030	NTE289A	ECG289A	SK3124A
Q6901, 2, 3	2SC1740SRS	-	NTE85	ECG85	SK3122
	2SC1740S	260P559030	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
Q6904, 5, 6	2SC2603-F	-	NTE289A	ECG289A	SK9137
	2SC3789E	-	NTE157	ECG157	SK3747
	2SC3789-C	260P571010	NTE157	ECG157	SK3747
	2SC3789-D	-	NTE157	ECG157	SK3747
	2SB940AP	-	NTE398	ECG398	SK9363
Q8001	2SB940A-P	260P573020	NTE398	ECG398	SK9363
	2SD1264AP	-	NTE375	ECG375	SK9118
Q8002	2SD1264A-P	260P574020	NTE375	ECG375	SK9118
	2SC1740SER	-	NTE85	ECG85	SK3122
Q8003	2SC1740S-E	260P559050	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137
Q8004	2SA933SSD	-	NTE290A	ECG290A	SK9132
	2SA933S-S	260P560040	NTE290A	ECG290A	SK9132
	2SA933S-R	-	NTE290A	ECG290A	SK9132
	2SA1115-E	-	NTE290A	ECG290A	SK9138
	2SA1115-F	-	NTE290A	ECG290A	SK9138
Q8005	2SC1740SER	-	NTE85	ECG85	SK3122
	2SC1740S-E	260P559050	NTE85	ECG85	SK3122
	2SC1740S-R	-	NTE85	ECG85	SK3122
	2SC1740S-S	-	NTE85	ECG85	SK3122
	2SC2603-E	-	NTE289A	ECG289A	SK9137
	2SC2603-F	-	NTE289A	ECG289A	SK9137

COILS (RF-IF)					
Item No.	Rating	Mfr. Part No.	Item No.	Rating	Mfr. Part No.
BP2A0	Chroma Bandpass	349P186010	L701	1000uH	325C108070
L5E1	6.8uH	321C130070	L704	27uH	325C121080
L6A0	10uH	325C111030	L705	10uH	325C111030
L7X0	10uH	325C121030	L706	10uH	325C111030
L100	.22uH	325C124030	# L902	6.8uH	321C130070
L101	1.8uH	325C120040	# L903	6.8uH	321C130070
L102	1.8uH	325C120040	# L904	10uH	321C130090
L104	Video IF, 45MHz	323P111020	L905	33MHz ±7.5%	321C131060
L105	12uH	325C161040	L907	6.8uH	321C130070
L108	Video IF, 45.75MHz	323P171010	# L908	.47uH	321D019010
L200	82uH	325C122040	# L918	10uH	321C130090
L201	15uH	325C161030 (1)	# L6901	68uH	325C302030
	10uH	325C161050 (2)	# L6902	68uH	325C302030
L202	82uH	325C122040	# L6903	68uH	325C302030
L203	15uF	325C161050	# L6904	15uH	325C101050
L204	10uF	325C121030	L6906	68uH	325C302030
L251	47uF	325C162010	L6907	68uH	325C302030
L300	Sound IF	327P073020	L6908	68uH	325C302030
L552	.47uF	321D019010	T100	Trap	320P026030
L554	Filter	409P509010			
L571	Filter	409P006080			
L600	10uH	325C111030			
L700	10uH	325C111030			

For SAFETY use only equivalent replacement part.
(1) Model CS-3115R
(2) Model CS-2715R

ELECTROLYTIC CAPACITORS		
Item	Rating	Mfr. Part No.
# C5H7	1 50V	189D111010
# C5H8	1 50V	189P355010
# C5H9	47 50V	181P355080
# C5J8	33 50V	181P355070
# C565	47 200V (1)	181P199080
# C907	820 180V	185D062060
# C925	2200 50V	181P181090
# C929	820 180V	185D063030
# C930	2200 35V	181P184070
# C933	2200 25V	181P353090

For SAFETY use only equivalent replacement part.
(1) Model CS-2715R

SAFETY PRECAUTIONS

SERVICE WARNING

ONLY qualified service technicians who are familiar with safety checks and guidelines should perform service work. For continued SAFETY:

- 1. Before replacing parts, disconnect power source to protect electrostatically sensitive parts.
- 2. Do not attempt to modify any circuit unless so recommended by the manufacturer.
- 3. When servicing chassis, use an isolation transformer between the line cord and power receptacle.

SERVICING HIGH VOLTAGE AND PICTURE TUBE

Use EXTREME CAUTION when servicing the High Voltage circuits.

- 1. To discharge static High Voltage, connect a 10-kilohm resistor in series with a test lead between chassis and picture tube anode lead.
- 2. DO NOT lift picture tube by the neck.
- 3. ALWAYS wear shatterproof goggles when handling picture tube 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 picture tube is the only potential source of x-rays.

- 1. Keep an accurate High Voltage meter available at all times. Check meter calibration periodically.
- 2. Whenever servicing a chassis, check High Voltage at various brightness levels to be sure it is regulating properly.
- 3. 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.
- 4. When troubleshooting a set with excessive High Voltage, avoid close contact with picture tube. DO NOT operate set longer than necessary. To locate the cause of excessive High Voltage, use a variable AC transformer to regulate voltage.
- 5. In present chassis, 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.

SAFETY CHECKS – FIRE AND SHOCK HAZARD

Cold Leakage Checks for Sets with Isolated Ground

- 1. Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch ON.
- 2. Use an ohmmeter to measure the resistance between the jumpered 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 200 kilohms and 5 megohms. Parts without a return path must register infinity.

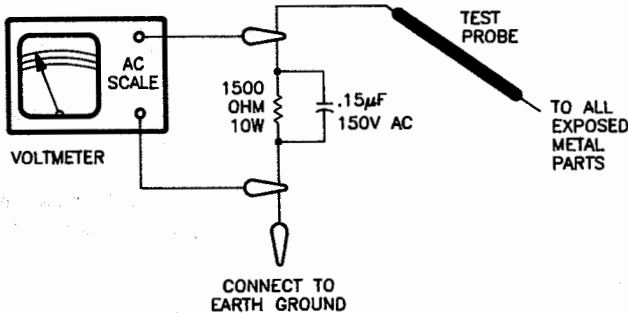
Hot Leakage Current Check

- 1. Plug the AC cord directly into AC outlet. DO NOT use an isolation transformer.
- 2. Use a 1500-ohm, 10-watt resistor in parallel with a .15-microfarad 150-volt AC capacitor to connect between any exposed metal parts on the set and a good earth ground. (See figure below.)
- 3. Use an AC voltmeter with at least 1000 ohms-per-volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point.
- 4. Voltage readings should not exceed .75 volts RMS (5 milliamps AC). Any value exceeding this limit constitutes a potential shock hazard and must be corrected.
- 5. If 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 set to customer.

- 1. Check repaired area for poorly soldered or de-soldered connections, and check entire circuit board for solder splashes.
- 2. Check inner board wiring for pinched wires or wires contacting any high-wattage resistors.
- 3. 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.



TEST EQUIPMENT

Test equipment listed by participating manufacturers 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	B&K Precision No.	SENCORE No.
Oscilloscope	1541A, 2120, 2125, 2160, 2190, 2522	SC61
Generators		
RGB	1249A, 1260	RG67
Multiburst Signal	1251, 1260	VA62A
Color Bar	1211A, 1249A, 1251, 1260	VA62A, CG25, NT64
TV Stereo	2009	ST65, ST66
Analog VOM	114, 117, 177, 214	-
Digital VOM	377, 388HD, 2700 Series, 2831A, 2860, 2900 Series	DVM37, DVM56A, SC61
Frequency Meter	1803A, 1804A, 1805, 1822, 1851, 1855	FC71, SC61
Hi-Voltage Probe	HV-44	HP200
VOM/DMM	-	TP212
Accessory Probes	PR-28(HV)	-
Isolation Transformer	TR110, 1604, 1653, 1655	PR57
Capacitance Analyzer	810A, 815, 820, 830	LC76, LC101, LC102
CRT Analyzer	480, 490	CR70
Temperature Probe	TP-28, TP-30	-
AC Leakage Tester	1655	PR57
Logic Probe	DP21, DP51	-
Logic Pulser	DP31, DP101	-
Inductance Analyzer	875A	LC76, LC101, LC102
Flyback Yoke Tester	875A	VA62A, LC76, LC101, LC102
TV Stereo Power Monitor	-	SR68
Field Strength Meter	-	FS73, FS74
Transistor Tester	510, 520B, 530	TF46
Video Analyzer	-	VA62A
Modulator/Converter	1201	-

PARTS LIST continued

COILS & TRANSFORMERS

Item No.	Function	Mfr. Part No.	On-Unit No.	Russell Part No.
# L491	Yoke 110° Horiz .96mH Vert 14.9mH	330P150010	330P15001	-
L555	Horiz Linearity	333P012070(2) 333P018020(1)	-	-
T531	Horiz Drive	336P017010	336P01701	-
# T532	Horiz Output	334P198060 (1) 334P202030 (2)	334P19806	-
# T533	Side Pincushion	349P122050	349P12205	-
# T552	Side Pincushion	349P145030 (1) 349P145050 (2)	349P14503	-
# T904	Power	350P365030	350P36503	-
# T905	Power	350P534010	350P53401	-

For SAFETY use only equivalent replacement part.
(1) Model CS-2715R
(2) Model CS-3115R

CAPACITORS

Item	Rating	Mfr. Part No.
# C5E6	.001 2KV 10%(1) 820 2KV 10%(2)	154P251080 154P251070
# C5E9	.039 200V 5%	172P081050
# C534	.0033 1.6KV 5%	172P170070
# C544	.015 1.6KV 5%(1) .013 1.6KV 5%(2)	172P171050 172P173030
# C545	.015 800V 5%(1) .013 1.6KV 5%(2)	189P063090 172P173030
# C546	.027 400V 5%	172P085050
# C547	220 2KV 10%	154P251000
# C548	220 2KV 10%	154P251000
# C552	.039 200V 5%	172P081050
# C568	.0027 1.6KV 5%(1) .001 1.6KV 5%(2)	172P170060 172P170060
# C902	.01 50V	142P023080
# C914	.1 25V 10% 470 25V	142P113090 -
# C918	.01 125VAC	189P143010
# C919	.022 125VAC	189P143020
# C951	.1 125VAC	189P033050
VC700	9.8-60 Trimmer	202P109050

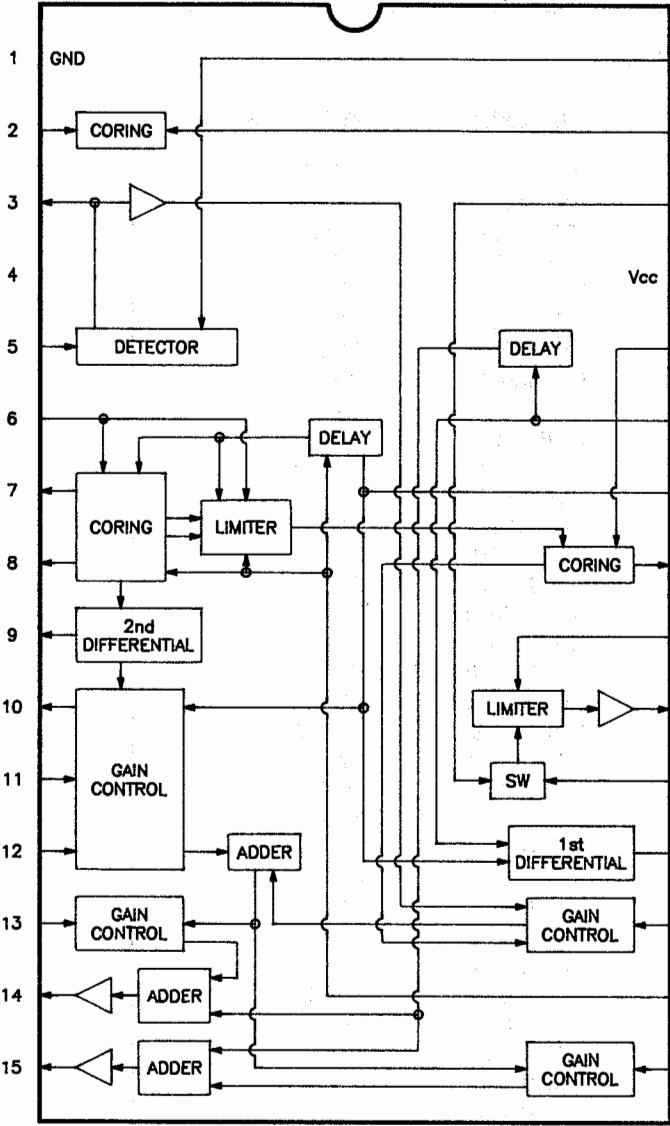
For SAFETY use only equivalent replacement part.
(1) Model CS-3115R
(2) Model CS-2715R

RESISTORS

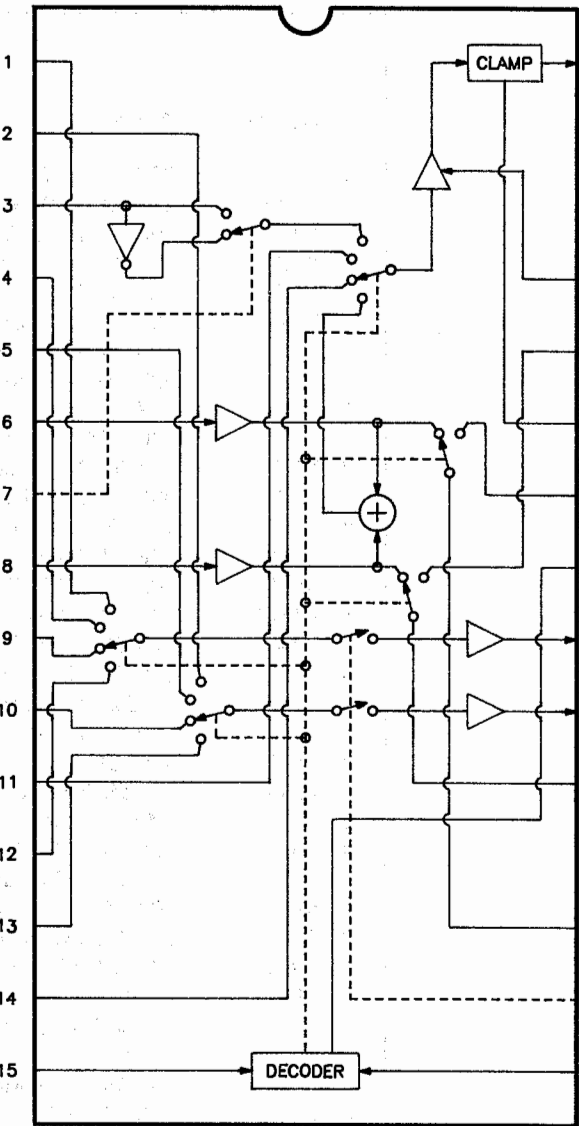
Item No.	Rating	Mfr. Part No.	NTE Replacement
# R2X0	82K 5% 1/4W Carbon	103P714080	QW382
# R2X3	2200 5% 1/4W Carbon	103P712090	QW222
# R4E1	10K 5% 1/4W Carbon	103P713070	QW310
# R5E9	180 5% 1/2W Carbon	103P141060	HW118
# R5K0	1.2 5% 1/4W Carbon	103P338010	QW1D2
# R5K2	10K 5% 1/4W Carbon	103P713070	QW310
# R5K4	30K 5% 1/4W Metal (1) 33K 5% 1/4W Metal (2)	103P466000 103P466010	QW330 QW333
# R5K5	27K 5% 1/4W Carbon (1) 120K 5% 1/4W Carbon (2)	103P714020 103P715000	QW327 QW412
# R5K6	33K 5% 1/4W Carbon	103P714030	QW333
# R5K7	33K 5% 3W Metal	103C194030	3W333
# R5L6	1500 5% 1/4W Carbon	103P712070	QW215
# R5M1	33K 5% 1/4W Carbon	103P714030	QW333
# R5M2	10K 5% 1/4W Carbon	103P713070	QW310
# R5M8	8200 5% 1/4W Carbon	103P713060	QW282
# R7A1	10K 5% 1/4W Carbon	103P713070	QW310
# R357	2.2 5% 1/4W Carbon	103P338040	QW2D2
# R358	2.2 5% 1/4W Carbon	103P338040	QW2D2
# R500	560 5% 3W Metal	103C192020	3W156
# R545	4700 5% 5W WW	109D074050	5W247
# R593	390 5% 2W Metal	103C182000	2W139
# R594	1 5% 2W Metal	103C188000	2W1D0
# R901	2.2 10% 20W WW	109D035090	-
# R902	100 5% 1/4W Carbon	103P331030	QW110
# R904	100 5% 1/4W Carbon	103P331030	QW110
# R907	.12 10% 2W WW	102P106090	-
# R908	.12 10% 2W WW	102P106090	-
# R909	15 5% 3W Metal (1) 18 5% 3W Metal (2)	103C190030 103C190040	3W015 3W018
# R910	22 5% 7W WW	109D061070	-
# R912	56K 1% 1/4W Metal	103P466070	-
# R913	39K 1% 1/4W Metal	103P466030	-
# R914	2700 5% 1/2W Carbon	103P143000	HW227
# R916	12K 1% 1/4W Metal	103P465010	-
# R918	.33 5% 1W Metal	103C177040	1WD33
# R928	1M 10% 1/2W Composition	109D036030	HW510
R959	1.2 10% 5W WW	109D055010	5W1D2
# R960	.33 5% 1W Metal	103C177040	1WD33
# R5038	220 5% 1/4W Carbon	103P411070	QW122
R5534	560 5% 1/2W Fusible	103P392020	-
R5536	560 5% 1/2W Fusible	103P392020	-
R5901	560 5% 1/2W Fusible	103P392020	-
# R6921	8200 5% 3W Metal	103C193060	3W282
# R6925	8200 5% 3W Metal	103C193060	3W282
# R6929	8200 5% 3W Metal	103C193060	3W282
R6934	3.3 5% 2W Fusible (1) 2.7 5% 2W Fusible (2)	103P438060 103P438050	F2W3D3 F2W2D7

For SAFETY use only equivalent replacement part.
(1) Model CS-3115R
(2) Model CS-2715R

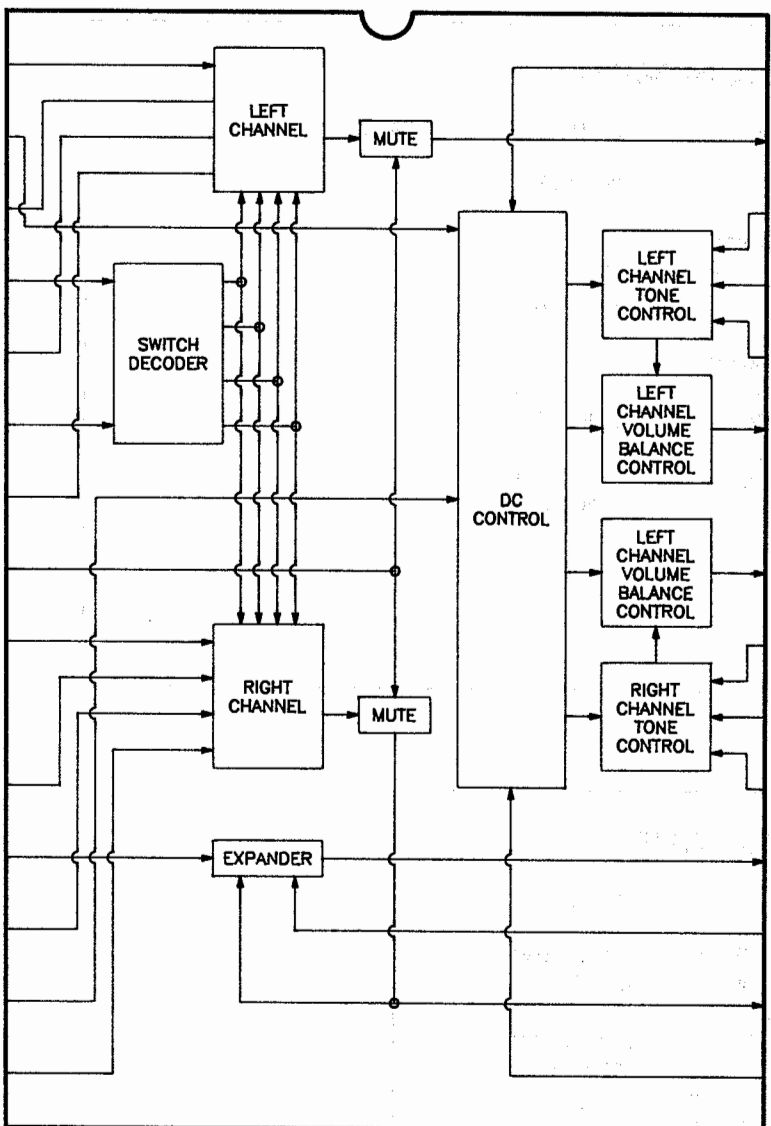
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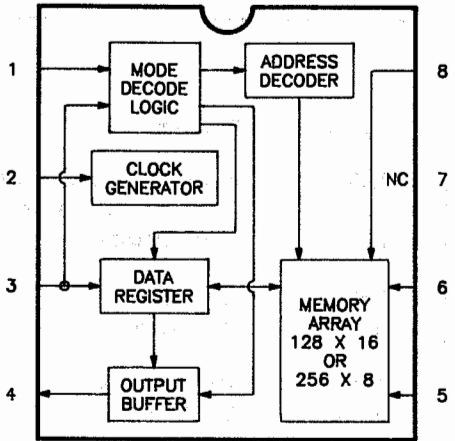
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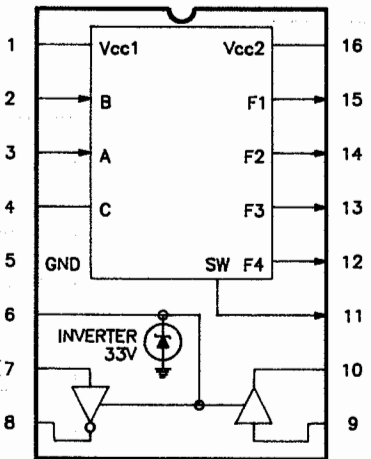
TA8720AN
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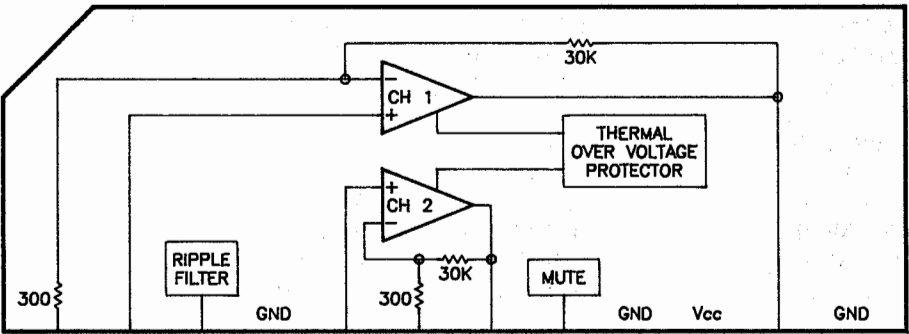
LA7953
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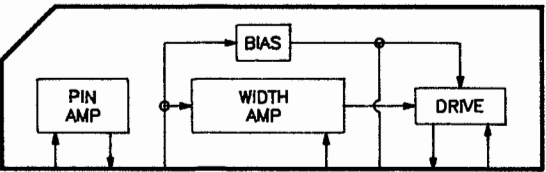
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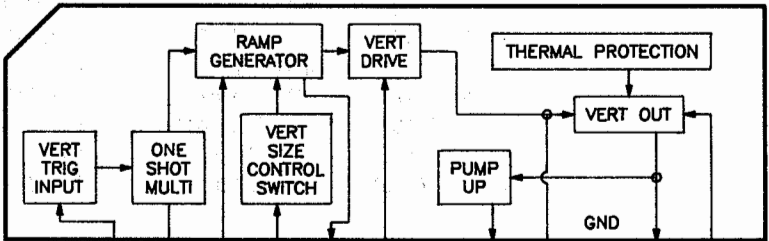
LA7911
IC7A0



LA4282
IC301



AN5551
IC501



LA7837
IC4E1

PARTS LIST continued

RESISTORS continued

Item No.	Rating	Mfr. Part No.	NTE Replacement
# R8002	470 5% 1W Metal	103C172010	1W147
# R8045	270 5% 1/4W Carbon	103P711080	QW127
# RP901	144 Cold Tap 5.4	265P071040	-
# RV901	Varistor	265P086010	-

For SAFETY use only equivalent replacement part.
(1) Model CS-2715R
(2) Model CS-3115R

CONTROLS

(All wattages 1/2 watt or less, unless otherwise listed.)

Item No.	Function	Resistance	Mfr. Part No.
VR3G0	Comp Level	3000	127C080060
VR4E1	Vert Height	50K	127C091010
VR4E2	Vert Lin	10K	127C080080
VR100	RF AGC	10K	127C080080
VR101	Det Video	1000	127C080040
VR200	Sub Contrast	100K	127C081020
VR350	Comp-Level	3000	127C080060
VR351	Filter	20K	127C080090
VR353	Separation	5000	127C080070
VR354	Spectrum	5000	127C080070
VR355	ST VCO	50K	127C091010
VR503	PCC Phase	5000	127C080070
VR504	PCC Amp	5000	127C080070
VR505	Width	20K	127C090090
VR601	Sub Tint	30K	127C081000
VR602	Sub Color	10K	127C080080
VR6901	Red Cutoff	500	127C020030
VR6902	Green Cutoff	500	127C020030
VR6903	Blue Cutoff	500	127C020030
VR6904	Red Drive	2000	127C020050
VR6905	Blue Drive	2000	127C020050

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
CF100	Filter	296P024020	Ceramic, 4.5MHz
CF300	Filter	296P067010	Ceramic, 4.5MHz
CF500	Resonator	299P154010	Ceramic
CF7X0	Resonator	299P083010	Ceramic
DL201	Delay Line	337P147020	-
DL2A0	Delay Line	337096070	-
DL2A1	Delay Line	337P142010	-
# F901	Fuse	283D060030	6.3A
# K901	Power Relay	287P049040	-
K902	Power Relay	287P049040 (3)	-
L4E1	Ferrite Bead	411P001040	-
L553	Ferrite Bead	411P001010	-
L8001	Ferrite Bead	411D009020	-
L900	Degaussing Coil	409B080040	Model CS-2715R
		409B091010	Model CS-3115R
L909	Ferrite Bead	411P012010	-
L911	Ferrite Bead	411P011010	-
L913	Line Filter	351P090010	-
L917	Ferrite Bead	411P001040	-
L919	Ferrite Bead	411P001040	-
L5000	Ferrite Bead	411P001040	-
L8001	Ferrite Bead	411D009020	-
J201	DIN Plug	449C098010	-
P900	Power Cord	242C957020	Polarized
S200	Switch	434C024010	Service
S401	Switch	434C024010 (3)	Vert Position
S571	Switch	431C059020 (3)	Horiz Position
S6901	Switch	434C024010	Cutoff
S6902	Switch	434C024010	Cutoff
S7X0	Switch	432P066070	Power
S7X1	Switch	432P066070	Volume Up
S7X2	Switch	432P066070	Volume Down
S7X3	Switch	432P066070	Channel Up
S7X4	Switch	432P066070	Channel Down
S7X5	Switch	432P066070	Input Up
S7X6	Switch	432P066070	Input Down
S7X7	Switch	432P066070	V Func. Up
S7X8	Switch	432P066070	V Func. Down
S7X9	Switch	432P066070	Func. Adj. Up
S7Y0	Switch	432P066070	Func. Adj. Down
S7Y1	Switch	432P066070	AF Up
S7Y2	Switch	432P066070	AF Down
S7Y3	Switch	432P066070	AV Reset
S7Z1	Switch	431C092010	Direction
S7Z2	Switch	431C091010	Strength
SF101	Filter	296P096030	SAW

For SAFETY use only equivalent replacement part.
(3) Model CS-3115R

NOTES

Mitsubishi CS-3115R, CS-2715R			
Model	Capacity	Power	Weight
CS-3115R	31,000 BTU	1,500 W	15.5 kg
CS-2715R	27,000 BTU	1,300 W	13.5 kg
CS-2315R	23,000 BTU	1,100 W	11.5 kg
CS-1915R	19,000 BTU	900 W	9.5 kg
CS-1515R	15,000 BTU	750 W	7.5 kg
CS-1115R	11,000 BTU	600 W	6.0 kg
CS-0915R	9,000 BTU	500 W	5.0 kg
CS-0715R	7,000 BTU	400 W	4.0 kg
CS-0515R	5,000 BTU	300 W	3.0 kg
CS-0315R	3,000 BTU	200 W	2.0 kg
CS-0115R	1,000 BTU	100 W	1.0 kg
CS-0015R	0,000 BTU	0 W	0 kg
CS-3115R	31,000 BTU	1,500 W	15.5 kg
CS-2715R	27,000 BTU	1,300 W	13.5 kg
CS-2315R	23,000 BTU	1,100 W	11.5 kg
CS-1915R	19,000 BTU	900 W	9.5 kg
CS-1515R	15,000 BTU	750 W	7.5 kg
CS-1115R	11,000 BTU	600 W	6.0 kg
CS-0915R	9,000 BTU	500 W	5.0 kg
CS-0715R	7,000 BTU	400 W	4.0 kg
CS-0515R	5,000 BTU	300 W	3.0 kg
CS-0315R	3,000 BTU	200 W	2.0 kg
CS-0115R	1,000 BTU	100 W	1.0 kg
CS-0015R	0,000 BTU	0 W	0 kg
CS-3115R	31,000 BTU	1,500 W	15.5 kg
CS-2715R	27,000 BTU	1,300 W	13.5 kg
CS-2315R	23,000 BTU	1,100 W	11.5 kg
CS-1915R	19,000 BTU	900 W	9.5 kg
CS-1515R	15,000 BTU	750 W	7.5 kg
CS-1115R	11,000 BTU	600 W	6.0 kg
CS-0915R	9,000 BTU	500 W	5.0 kg
CS-0715R	7,000 BTU	400 W	4.0 kg
CS-0515R	5,000 BTU	300 W	3.0 kg
CS-0315R	3,000 BTU	200 W	2.0 kg
CS-0115R	1,000 BTU	100 W	1.0 kg
CS-0015R	0,000 BTU	0 W	0 kg

Mitsubishi CS-3115R, CS-2715R			
Model	Capacity	Power	Weight
CS-3115R	31,000 BTU	1,500 W	15.5 kg
CS-2715R	27,000 BTU	1,300 W	13.5 kg
CS-2315R	23,000 BTU	1,100 W	11.5 kg
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CS-1515R	15,000 BTU	750 W	7.5 kg
CS-1115R	11,000 BTU	600 W	6.0 kg
CS-0915R	9,000 BTU	500 W	5.0 kg
CS-0715R	7,000 BTU	400 W	4.0 kg
CS-0515R	5,000 BTU	300 W	3.0 kg
CS-0315R	3,000 BTU	200 W	2.0 kg
CS-0115R	1,000 BTU	100 W	1.0 kg
CS-0015R	0,000 BTU	0 W	0 kg
CS-3115R	31,000 BTU	1,500 W	15.5 kg
CS-2715R	27,000 BTU	1,300 W	13.5 kg
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CS-1515R	15,000 BTU	750 W	7.5 kg
CS-1115R	11,000 BTU	600 W	6.0 kg
CS-0915R	9,000 BTU	500 W	5.0 kg
CS-0715R	7,000 BTU	400 W	4.0 kg
CS-0515R	5,000 BTU	300 W	3.0 kg
CS-0315R	3,000 BTU	200 W	2.0 kg
CS-0115R	1,000 BTU	100 W	1.0 kg
CS-0015R	0,000 BTU	0 W	0 kg
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CS-1915R	19,000 BTU	900 W	9.5 kg
CS-1515R	15,000 BTU	750 W	7.5 kg
CS-1115R	11,000 BTU	600 W	6.0 kg
CS-0915R	9,000 BTU	500 W	5.0 kg
CS-0715R	7,000 BTU	400 W	4.0 kg
CS-0515R	5,000 BTU	300 W	3.0 kg
CS-0315R	3,000 BTU	200 W	2.0 kg
CS-0115R	1,000 BTU	100 W	1.0 kg
CS-0015R	0,000 BTU	0 W	0 kg

PARTS LIST continued

MISCELLANEOUS continued

Item No.	Description	Mfr. Part No.	Notes
S7Z2	Switch	431C091010	Strength
SF101	Filter	296P096030	SAW
# V271	CRT	A68AEG20X02(2)	-
		M78JUA20X(3)	-
		A79AEX25X02(3)	-
	X600	285P029050	Crystal
	X700	285P029030	Crystal
	Z7X0	939P406010	Preamp Unit
	CRT Socket	449C081020 (2)	-
		449C081070 (3)	-
	PC Board	920D311010 (1)(2)	Control
	PC Board	920D311020 (1)(3)	Control
	PC Board	920D312090 (1)(2)	CRT
	PC Board	920D273010 (1)(3)	CRT
	PC Board	930B490001 (1)(2)	Defl. Power
	PC Board	930B490002 (1)(3)	Defl. Power
	PC Board	930B491001 (1)(2)	Signal
	PC Board	930B491002 (1)(3)	Signal
	Remote Transmitter	939P347070	-
	Terminal Board	440A008030	-
	Tuner	295P273010 (1)	EC-CU-6720
	Wedge	-	-

For SAFETY use only equivalent replacement part.
(1) Contact PTS Electronics Corporation for replacement; order by manufacturer's part number.
(2) Model CS-2715R
(3) Model CS-3115R

SPEAKERS

Item No.	Description	Mfr. Part No.	Quam Part No.
SP1, SP2	2" X 3 1/2" 16 Ohm 5W	480P646060 (1)	-
		480P646050 (2)	-
		480P64606 (3)	-

(1) Model CS-3115R
(2) Model CS-2715R
(3) Number on unit.

CABINET PARTS

MODEL CS-2715R

Item	Part No.
Cabinet Front	701A456050
Cabinet Rear	700A493030
Door Assy.	702B728020
Door Catch	761C352010
Knob	704B050010

MODEL CS-3115R

Item	Part No.
Cabinet Front	701A457040
Cabinet Rear	700A495030
Door	702B729020
Door Catch	761C352010
Knob	704B050020

mitsubishi

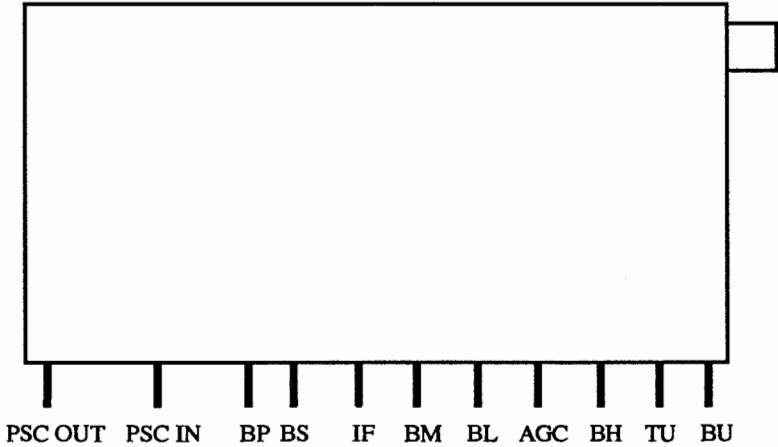
models CS-3115R, CS-2715R

TUNER INFORMATION

TUNER VOLTAGE CHART			
Band	VHF Low Band	VHF High Band	UHF
BU	0V	0V	11.9V
TU	1.3V	3.9V	6.4V
BH	0V	11.9V	0V
AGC	6.9V	6.9V	6.9V
BL	11.9V	.3V	.6V
BM	11.9V	11.9V	11.9V
BS	10.9V	10.9V	3.2V
BP	4.8V	4.8V	4.8V
PSC IN	1.5V	.5V	.3V
PSC OUT	2.4V	2.4V	2.4V

Note: VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

TUNER TERMINAL GUIDE



NOTES