1.0.00				ety Parts
ltem	Part No.	Descript	ion	
(AV-29TS2E	N)			
V01	A68ESF002X011	PICTURE TUB	E(ITC)	
L01	CELD020-00437	DEGAUSSING		
T1551	CETH019-00AJ1	H.V.TRANSF. (SERVICE)	
1	CM12798-002-E	REAR COVER POWER CORE		
10 11	AEEMP001-185 CM47016-001-H	CORD CLAMP)	
12	CM23156-A01-E	RATING LABE	For GF	BR/GER/ITA
13	CM23157-001-E	RATING LABE		BR/ESP
R1466	QRD14CJ-2R2SX	CR	2.2 Ω	1/4W J
R1585	QRV141F-2941AY	MF R	2.94k s	Ω 1/4W F
R1586	QRV141F-1582AY	MF R	15.8k s	Ω 1/4W F
R1991	QRZ0057-825	CR	8.2M 🖸	2 1W J
C1521	QFZ0117-4001L	MPP CAP.		1.5kVH±2.5%
C1522	QFZ0117-9501L	MPP CAP.		F 1.5kVH±2.5%
C1523 C1525	QFP32GJ-223M	PP CAP. MPP CAP.		F 400V J
C1525 C1531	QFZ0119-684S QFZ0119-154S	MPP CAP. MPP CAP.		F 200V ±3% F 200V ±3%
C1902	QCZ9034-472A	C CAP.		F AC400V P
C1902 C1903	QCZ9034-472A QCZ9034-472A	C CAP.		FAC400V P
C1903	QCZ9034-472A	C CAP.		F AC400V P
C1992	QCZ9041-471A	C CAP.		FAC400V K
C1993	QCZ9041-332A	C CAP.	3300 p	F AC400V M
T1901	CETS083-00137	SW TRANSF.		
D1901	D3SBA60	DIODE BRIDG		
Q1521	BU2508AX	POWER TRAN		H.OUT
IC1902 CP1952	TLP721F(D4-GR) ICP-N50-Y	I.C.(PH.COUP I.C.PROTECT	EK)	
CP1952 CP1953	ICP-N50-Y	I.C.PROTECT		
FR1551	QRZ0054-4R7M	FR 4.7 9	2 1/4W	J
FR1552	QRH017J-1R0M	FR 1Ω	1W	J
FR1553	QRH0173-1R0M	FR 1Ω	1W	J
FR1954	QRH017K-R8ZM	F R 0.82	Ω 1W	К
SK3001	CE42535-001J1	C.R.T. SOCKE	г	
C8901	QFZ9040-474N	MF CAP. 0.47p	F AC275V	М
C8904	QFZ9040-473N	MM CAP. 0.047	′p F AC275\	′ M
F8901	QMF51D2-3R15J1	FUSE 3.15A		
LF8901	CE42144-00132	LINE FILTER		
S8901	QSP4K21-C01	PUSH SWITCH		/ER
TH8901	CEKP010-00102	W.P.THERMIS		
R0403 5	QRZ0054-470M CQ40317-001-E	F R 47 Ω INST BOOK	1/4W For GE	J BR/GER/FRA/NED/ITA/ESP
6	CQ40318-001-E	INST BOOK		N/NOR/DEN/SWE/POR
(AV-29TS2E				
V01	A68ESF002X011	PICTURE TUB	. ,	
L01	CELD020-00437	DEGAUSSING		
T1551 1	CETH019-00AJ1 CM12798-002-E	H.V.TRANSF. (REAR COVER	SERVICE)	
10	AEENP003-185A	POWER COVER	,	
11	CM47016-001-H	CORD CLAMP		
12	CM22875-012-E	RATING LABE	_	
R1466	QRD14CJ-2R2SX	C R 2.2 0		J
R1585	QRV141F-2941AY	MF R 2.94	<Ω 1/4W	F
R1586	QRV141F-1582AY	MF R 15.8	αΩ 1/4W	F
R1991	QRZ0057-825	C R 8.2M		J
C1521	QFZ0117-4001L	MPP CAP.		F 1.5kVH±2.5%
C1522	QFZ0117-9501L	MPP CAP.		F 1.5kVH±2.5%
C1523	QFP32GJ-223M QFZ0119-684S	PP CAP. MPP CAP.		L F 400V J
C1525 C1531	QFZ0119-684S QFZ0110-154S	MPP CAP. MPP CAP.		F 200V ±3% F 200V ±3%
C1902	QCZ9034-472A	C CAP.		F AC400V P
C1903	QCZ9034-472A	C CAP.		F AC400V P
C1904	QCZ9034-472A	C CAP.		F AC400V P
C1992	QCZ9041-471A	C CAP.		AC400V K
C1993	QCZ9041-332A	C CAP.		F AC400V N
T1901	CETS083-001J7	SW TRANSF.		
D1901	D3SBA60	DIODE BRIDG		
Q1521	BU2508AX	POWER TRAN		DUT
IC1902	TLP721F(D4-GR)	I.C.(PH.COUP	.ER)	
CP1952	ICP-N50-Y	I.C.PROTECT		
CP1953 ER1551	ICP-N50-Y QRZ0054-4R7M	I.C.PROTECT F R 4.7 (2 1/4W	J
FR1551 FR1552	QRZ0054-4R7M QRH017J-1R0M	FR 4.7Ω FR 1Ω	2 1/4vv 1W	J
	QRH017J-1R0M	$FR = 1\Omega$	1W	J
FRIDDA	G			5 K
FR1553 FR1954	QRH017K-R82M	FR 0.82	Ω 1W	n
	QRH017K-R82M CE42535-001J1	F R 0.82 C.R.T. SOCKE		ĸ

Item C8904 F8901 LF8901 S8901 TH8901 R0403 5 (AV-29TS2PF V01 L01 T1551 1 10 11 12 R1466 R1585 R1586 R1991 C1521 C1522 C1523 C1525 C1531 C1525 C1531 C1902 C1903 C1904	Part No. QFZ9040-473N QMF51D2-3R15J1 CE42144-00132 QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40319-001-E A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L QFZ0117-9501L	DescriptionMM CAP. 0.047 μ F AC275VMFUSE3.15ALINE FILTERPUSH SWITCH MAIN POWERW.P. THERMISTORF RF R47 Ω I/AWJINST.BOOKITC TUBE(C)DEGAUSSING COILH.V. TRANSF.(SERVICE)REAR COVERPOWER CORDCORD CLAMPRATING LABELC R2.94k Ω MF R1.94k Ω MF R15.8k Ω MF R15.8k Ω 1/4WFC R8.2M Ω 1/WJ	Item FR1553 FR1954 FR1954 FR1968 SK3001 C8901 C8904 F8901 LF8901 S8901 TH8901 R0403 5 6 (AV-21TS2) L01	Part No. QRH017J-1R0M QRH017J-1R2M QR20054-331M CE42535-001J1 QF29040-474N QF20040-473N QMF51D2-3R15J1 AEELF002-001 QSP4K21-C01 CEKP010-001J2 QR20054-470M CQ40317-001-E CQ40318-001-E
F8901 LF8901 S8901 TH8901 R0403 5 (AV-29TS2PF V01 L01 T1551 1 10 11 12 R1466 R1585 R1586 R1991 C1522 C1523 C1525 C1523 C1525 C1531 C1902 C1903	QMF51D2-3R15J1 CE42144-00132 QSP4K21-C01 CEKP010-001J2 QR20054-470M CQ40319-001-E A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	FUSE 3.15A LINE FILTER PUSH SWITCH MAIN POWER W.P. THERMISTOR F R 47 Ω 1/4W J INST.BOOK ITC TUBE(C) DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	FR1954 FR1968 SK3001 C8901 C8904 F8901 LF8901 S8901 TH8901 R0403 5 6 (AV-21TS2 L01	QRH017J-1R2M QRZ0054-331M CE42535-001J1 QFZ9040-474N QFZ0040-473N QMF51D2-3R15J1 AEELF002-001 QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40317-001-E CQ40318-001-E
LF8901 S8901 TH8901 R0403 5 (AV-29TS2PF V01 L01 T1551 1 10 11 12 R1466 R1585 R1586 R1991 C1521 C1522 C1523 C1525 C1525 C1531 C1902 C1903	CE42144-00132 QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40319-001-E 7 A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	LINE FILTER PUSH SWITCH MAIN POWER W.P. THERMISTOR F R 47 Ω 1/4W J INST.BOOK ITC TUBE(C) DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	FR1968 SK3001 C8901 C8904 F8901 LF8901 S8901 TH8901 R0403 5 6 (AV-21T52 L01	QRZ0054-331M CE42535-001J1 QFZ9040-474N QFZ0040-473N QMF51D2-3R15J1 AEELF002-3R15J1 QSP4K21-C01 CEKP010-001J2 QR20054-470M CQ40317-001-E CQ40318-001-E
S8901 TH8901 R0403 5 (AV-29TS2PF V01 L01 T1551 1 10 11 12 R1466 R1585 R1585 R1585 R1586 R1991 C1521 C1522 C1523 C1523 C1525 C1523	QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40319-001-E A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	PUSH SWITCH MAIN POWER W.P. THERMISTOR F R 47 Ω 1/4W J INST.BOOK ITC TUBE(C) DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	SK3001 C8901 C8904 F8901 LF8901 S8901 TH8901 R0403 5 6 (AV-21T52 L01	CE42535-001J1 QFZ9040-474N QFZ0040-473N QMF51D2-3R15J1 AEELF002-001 QSP4K21-C01 CEKP010-001J2 QR20054-470M CQ40317-001-E CQ40318-001-E
TH8901 R0403 5 (AV-29TS2PF V01 L01 T1551 1 10 11 12 R1466 R1585 R1585 R1586 R1991 C1522 C1523 C1522 C1523 C1	CEKP010-001J2 QRZ0054-470M CQ40319-001-E A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	W.P. THERMISTOR F R 47 Ω 1/4W J INST.BOOK ITC TUBE(C) DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	C8901 C8904 F8901 LF8901 S8901 TH8901 R0403 5 6 (AV-21T52 L01	QFZ9040-474N QFZ0040-473N QMF51D2-3R15J1 AEELF002-001 QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40317-001-E CQ40318-001-E
R0403 5 (AV-29TS2PF V01 L01 T1551 1 10 11 12 R1466 R1585 R1586 R1991 C1521 C1522 C1523 C1523 C1525 C1531 C1902 C1903	QRZ0054-470M CQ40319-001-E 7 A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	F R 47 Ω 1/4W J INST.BOOK ITC TUBE(C) DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	C8904 F8901 LF8901 S8901 TH8901 R0403 5 6 (AV-21TS: L01	QFZ0040-473N QMF51D2-3R15J1 AEELF002-001 QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40317-001-E CQ40318-001-E
5 (AV-29TS2PF V01 L01 T1551 1 10 11 12 R1466 R1585 R1586 R1991 C1521 C1522 C1523 C15	CQ40319-001-E A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	INST.BOOK ITC TUBE(C) DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	F8901 LF8901 S8901 TH8901 R0403 5 6 (AV-21TS : L01	QMF51D2-3R15J1 AEELF002-001 QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40317-001-E CQ40318-001-E
(AV-29TS2PF V01 L01 T1551 1 10 11 12 R1466 R1585 R1586 R1991 C1522 C1522 C1523 C1525 C1523 C1525 C1531 C1902 C1903	A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	ITC TUBE(C) DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	LF8901 S8901 TH8901 R0403 5 6 (AV-21TS: L01	AEELF002-001 QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40317-001-E CQ40318-001-E
V01 L01 T1551 1 10 11 12 R1466 R1585 R1586 R1991 C1525 C1523 C1525 C1523 C1525 C1531 C1902 C1903	A68ESF002X011 CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	S8901 TH8901 R0403 5 6 (AV-21TS: L01	QSP4K21-C01 CEKP010-001J2 QRZ0054-470M CQ40317-001-E CQ40318-001-E
L01 T1551 1 10 11 12 R1466 R1585 R1586 R1991 C1521 C1522 C1523 C1525 C1525 C1521 C1525 C1531 C1902 C1903	CELD020-004J7 CETH019-00A31 CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	DEGAUSSING COIL H.V. TRANSF.(SERVICE) REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	TH8901 R0403 5 6 (AV-21TS: L01	CEKP010-001J2 QRZ0054-470M CQ40317-001-E CQ40318-001-E
1 10 11 12 R1466 R1585 R1586 R1991 C1521 C1522 C1523 C1525 C1523 C1525 C1531 C1902 C1903	CM12798-002-E AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	REAR COVER POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	5 6 (AV-21TS: L01	CQ40317-001-E CQ40318-001-E
10 11 12 R1466 R1585 R1586 R1591 C1521 C1522 C1523 C1523 C1525 C1531 C1902 C1903	AEEMP001-185 CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	POWER CORD CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	6 (AV-21TS: L01	CQ40318-001-E
11 12 R1466 R1585 R1586 R1991 C1521 C1522 C1523 C1523 C1525 C1531 C1902 C1903	CM47016-001-H CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	CORD CLAMP RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	(AV-21TS) L01	
12 R1466 R1585 R1586 R1991 C1521 C1522 C1523 C1525 C1523 C1525 C1531 C1902 C1903	CM23159-001-E QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	RATING LABEL C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	L01	2EK)
R1466 R1585 R1586 R1991 C1521 C1522 C1523 C1525 C1525 C1531 C1902 C1903	QRD14CJ-2R2SX QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	C R 2.2 Ω 1/4W J MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F	L01	2EK)
R1585 R1586 R1991 C1521 C1522 C1523 C1525 C1531 C1902 C1903	QRV141F-2941AY QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	MF R 2.94k Ω 1/4W F MF R 15.8k Ω 1/4W F		•
R1586 R1991 C1521 C1522 C1523 C1525 C1531 C1902 C1903	QRV141F-1582AY QRZ0057-825 QFZ0117-4001L	MF R 15.8k Ω 1/4W F		CELD018-00537
R1991 C1521 C1522 C1523 C1525 C1531 C1902 C1903	QRZ0057-825 QFZ0117-4001L		T1551	QQH0018-001
C1521 C1522 C1523 C1525 C1531 C1902 C1903	QFZ0117-4001L	CR 0.21/122 1/V J	V01 1	A51EAL155X01 CM12774-A01-E
C1522 C1523 C1525 C1531 C1902 C1903			10	AEEMP003-185A
C1523 C1525 C1531 C1902 C1903	an Lonn - Joon L	MPP CAP. 4000 p F 1.5kVH±2.5% MPP CAP. 9500 p F 1.5kVH±2.5%	10	CM46618-A01-E
C1525 C1531 C1902 C1903	QFP32G3-223M	PP CAP. $9500 \text{ p} \text{ F} 1.5 \text{ kVH} \pm 2.5\%$ PP CAP. $0.022 \mu \text{F} 400 \text{ V}$ J	12	CM22875-014-E
C1531 C1902 C1903	QFZ0119-684S	MPP CAP. 0.68 μF 200V ±3%	R1585	QRV141F-2941AY
C1902 C1903	QFZ0119-154S	MPP CAP. 0.15 p F 200V ±3%	R1586	QRV141F-1582AY
C1903	QCZ9034-472A	C CAP. 4700 p F AC400V P	R1991	QRZ0057-825
	QCZ9034-472A	C CAP. 4700 p F AC400V P	C1521	QFZ0125-952N
	QCZ9034-472A	C CAP. 4700 p F AC400V P	C1524	QFZ0119-254S
C1992	QCZ9041-471A	C CAP. 470 p F AC400V K	C1531	QFZ0119-154S
C1993	QCZ9041-332A	C CAP. 3300 p F AC400V N	C1902	QCZ9034-472A
T1901	CETS083-001J7	SW TRANSF.	C1903	QCZ9034-472A
D1901	D3SBA60	DIODE BRIDGE	C1904	QCZ9034-472A
Q1521	BU2508AX	POWER TRANSISTOR H.OUT	C1992	QCZ9041-471A
IC1902	TLP721F(D4-GR)	I.C.(PH.COUPLER)	C1993	QCZ9041-332A
CP1952	ICP-N50-Y	I.C.PROTECT	T1551	QQH0018-001
CP1953	ICP-N50-Y	I.C.PROTECT	T1901	CETS085-001J4
FR1551	QRZ0054-4R7M	F R 4.7 Ω 1/4W J	D1901	D3SBA60
FR1552	QRH017J-1R0M	FR 1Ω 1W J	Q1521	BU2506DX
FR1553	QRH017J-1R0M	FR 1Ω 1W J	IC1902	TLP721F(D4-GR)
FR1954	QRH017K-R82M	F R 0.82 Ω 1W K	CP1952	ICP-N50-Y
SK3001	CE42535-001J1	C.R.T. SOCKET	CP1953	ICP-N50-Y
C8901	QFZ9040-474N	MF CAP. 0.47 μ F AC275V M	FR1551	QRZ0054-4R7M
C8904	QFZ9040-473N	MM CAP. 0.047 p F AC275V M	FR1552 FR1553	QRH017J-1R0M
F8901 LF8901	QMF51D2-3R15J1	FUSE 3.15A	FR1553 FR1954	QRH0173-1R0M
S8901	CE42144-001J2 QSP4K21-C01	LINE FILTER PUSH SWITCH MAIN POWER	FR1954 FR1968	QRH017J-1R2M QRZ0054-331M
TH8901	CEKP010-00132	W.P. THERMISTOR	SK3001	CE42535-001J1
R0609	QRZ0054-470M	F R 47 Ω 1/4W J	C8901	QFZ9040-474N
R0403	QRZ0054-470M	$FR = 47 \Omega 1/4W J$	C8904	QFZ9040-473N
5	CQ40321-001-E	INST.BOOK	F8901	QMF5102-3R15J1
-	54E		LF8901	AEELF002-001
(AV-21TS2EN	4)		S8901	QSP4K21-C01
V01	A51EAL155X01	PICTURE TUBE(ITC)	TH8901	CEKP010-001J2
L01	CELD018-005J7	DEGAUSSING COIL	R0403	QRZ0054-470M
T1551	QQH0018-001	FLYBACK TRNSF.	5	CQ40319-001-E
1	CM12774-A01-E	REAR COVER		
10	AEEMP001-185	POWER CORD		
11	CM46618-A01-E	POWER CORD CLAMP		
12	CM23156-A04-E	RATING LABEL For GBR/GER/ITA		
13	CM23158-002-E	RATING LABEL For GBR/ESP		
R1585	QRV141F-2941AY	MF R 2.94k Ω 1/4W F		
R1586	QRV141F-1582AY	MF R 15.8k Ω 1/4W F		
R1991	QRZ0057-825	C R 8.2M Ω 1W J		
C1521	QFZ0125-952N	MPP CAP. 9500 p F 2000V±2.5%		
C1524	QFZ0119-254S	MPP CAP. 0.25 μ F 200V ±3%		
C1531	QFZ0119-154S	MPP CAP. 0.15 μ F 200V ±3%		
C1902	QCZ9034-472A	C CAP. 4700 p F AC400V P		
C1903	QCZ9034-472A	C CAP. 4700 p F AC400V P		
C1904	QCZ9034-472A	C CAP. 4700 p F AC400V P		
C1992	QCZ9041-471A	C CAP. 470 p F AC400V K		
C1993	QCZ9041-332A	C CAP. 3300 p F AC400V M		
T1551	QQH0018-001	FLYBACK TRANSF.		
T1901	CETS085-001J4	SWITCH.TRANSF.		
D1901	D3SBA60			
Q1521	BU2506DX	POWER TRANSISTOR H.OUT		
IC1902	TLP721F(D4-GR)	I.C.(PH.COUPLER)		
CP1952	ICP-N50-Y	I.C.PROTECT		
	ICP-N50-Y	I.C.PROTECT		
CP1953 FR1551	QRZ0054-4R7M	FR 4.7Ω 1/4W J		

commended Safety Parts

Description

FR	1Ω	1W	J	
FR	1.2 Ω	1W	J	
FR	330 Ω	1/4W	J	
C.R.T. SC	OCKET			
MF CAP.	0.47 μ F /	AC275V	Μ	
MM CAP.	0.047 μ F	AC275V	Μ	
FUSE 3.1	5A			
LINE FIL	ΓER			
PUSH SV	ИТСН МА	IN POWEI	R	
W.P.THE	RMISTOR			
FR	47 Ω 1/4\	N		J
INST BO	OK	For GBR	/GER/FRA	/NED/ITA/ESP
INST BO	OK	For FIN/M	NOR/DEN/	SWE/POR

J

DEGAUSSING COIL FLYBACK TRANSF. PICTURE TUBE(ITC) REAR COVER POWER CORD POWER CORD CLAMP RATING LABEL MF R 2.94 k Ω 1/4W F MF R 15.8 k Ω 1/4W F CR 8.2MΩ 1W MPP CAP. 9500p F 2000V±2.5% MPP CAP. 0.25 µ F 250V J MPP CAP. 0.15 µ F 200V ±3% C CAP. 4700 p F AC400V P C CAP. 4700 p F AC400V P C CAP. 4700 p F AC400V P C CAP. 470 p F AC400V K C CAP. 3300 p F AC400V N . FLYBACK TRANSF. SWITCH.TRANSF. DIODE BRIDGE POWER TRANSISTOR H.OUT I.C. (PH.COUPLER) I.C.PROTECT I.C.PROTECT FR 4.7 Ω 1/4W J FR 1Ω 1W J FR 1Ω 1W J FR 1.2Ω 1W J F R 330 Ω 1/4W J C.R.T. SOCKET MF CAP. $0.47 \,\mu$ F AC275V M MM CAP. 0.047 µ F AC275V M FUSE 3.15A LINE FILTER PUSH SWITCH MAIN POWER W.P. THERMISTOR F R47 Ω 1/4W J INST. BOOK

Safety Precautions

- 1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3.Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts lists. Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list may cause shock, fire, or other hazards.
- 4. Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing. Some models power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (\perp) side GND, the ISOLATED (NEUTRAL): $(\downarrow \downarrow)$ side GND and EARTH $(\bigcirc$) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time. If above note will not be kept, a fuse or any parts will be broken.
- 5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- 6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- 7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 1 0k Ω 2 2W resistor to the anode button.
- 8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturers replacement

components. Isolation Check

Safety for Electrical Shock Hazard After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals. video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (.... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V. and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment

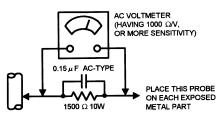
not generally found in the service trade.

(2) Leakage Current Check Plug the AC line cord directly into the AC outlet

(do not use a line isolation transformer during this check.). Using a "Leakage Current Tester', measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15µF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis. and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).



GOOD EARTH GROUND

- . The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be

obtained by using replacement components. rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts Lists may cause shock, fire, or other hazards.

4. The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts. high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

Warning

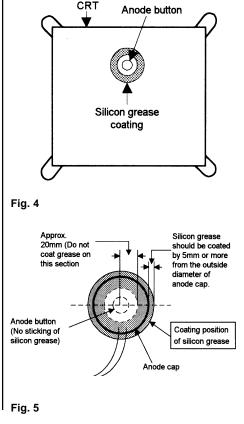
The equipment has been designed and manufactured to meet international safety standards. It is the legal responsibility of the repairer to ensure that these safety standards are maintained. Repairs must be made in accordance with the relevant safety standards. It is essential that safety critical components are replaced by approved parts. If mains voltage selector is provided, check setting for local voltage.

COATING OF SILICON GREASE FOR ELEC-TRICAL

INSULATION ON THE CRT ANODE CAP SECTION.

Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.4. Wipe around the anode button with clean and dry cloth. (Fig.4) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig. 5)

* Silicon grease product No. KS - 650N



REPLACEMENT OF MEMORY ICs

1. Memory ICs

This TV use memory ICs (EEP-ROM IC). In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

2. Procedure for replacing memory ICs

PROCEDURE (1) Power off Switch the power off and unplug the power code from the outlet. (2) Replace ICs. Be sure to use memory Cs written with the initial data values (3) Power on Plug the power code into the outlet and switch the power on. (4) Check and set SYSTEM CONSTANT SET: 1) Press the INFORMATION key and the MUTE key of the REMOTE CONTROL UNIT simultaneously. 2) The SERVICE MENU screen of Fig. 1 will be displayed. 3) While the SERVICE MENU is displayed press the INFORMATION key and MUTE key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed. 4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key. 5) Press the MENU key and memorize the setting value. 6) Press the INFORMATION key twice, and return to the normal screen. (5) Setting of receive channels Set the receive channel. For setting, refer to the Setting item OPERATING INSTRUCTIONS. (6) User settings Check the user setting values of Table 2, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUC-TIONS. 7) Setting of SERVICE MENU Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary.

For setting, refer to the SERVICE ADJUST-MENTS.

SERVICE MENU

SERVICE MENU

	SERVICE MENU	
	1.IF 2.V/C 3.AUDIO 4.DEF 5.VSM PRISET 6.VPS 7.AUDIO PROGRAM (ON)	
	1-7:SELECT :EXIT	
.1 ST	EM CONSTANT SET	
	SYSTEM CONSTANT SET	
	SYSTEM CONSTANT SET MODEL=TS2 (V*. ****) 1.COUNTRY :EN 2.INCH :29	
C	MODEL=TS2 (V*. ****)	
	MODEL=TS2 (V*. ****) 1.COUNTRY :EN 2.INCH :29 -+ OK :STORE :EXIT	

NAME OF REMOTE CONTROL M

Names of key	
INFORMATION	
MUTE	
MENU	
FUNCTION UP/DOWN	
FUNCTION -/+	

SETTING VALUES OF SYSTEM SET

Setting item 1. COUNTRY

Setting content

-	PF		IR	->	UK		ΕN	
---	----	--	----	----	----	--	----	--

Setting value AV-29TS2EN EN

AV-29TS2EK IIK

AV-29TS2PF

2. INCH

Setting content

→ 21 → 25 → 29 →

Setting value AV-29TS2EN 29

AV-29TS2EK 29

AV-29TS2PF

USER SETTING VALUES

Setting Item	Value	Item
SUB POWER	ON	COOL/N
CHANNEL	1 POSITION	SLEEP T
CHANNEL PRESET	See; OPERATING	SPATIAL
	INSTRUCTIONS	BLUE BA
VOLUME	Appropriate	ZOOM
	sound volume	
TV/EXT	TV	ECO
DISPLAY	CHANNEL DISPLAY	BALANC
P/S/N	TV/PAL	LANGUA
HYPER SOUND	OFF	CHILD L

Table 2

SERVICE MENU SETTING ITEM

Setting item 1 IF

Setting value 1. VCO 2. DELAY POINT 3. LV LEVEL (Only AV-29TS2PF)

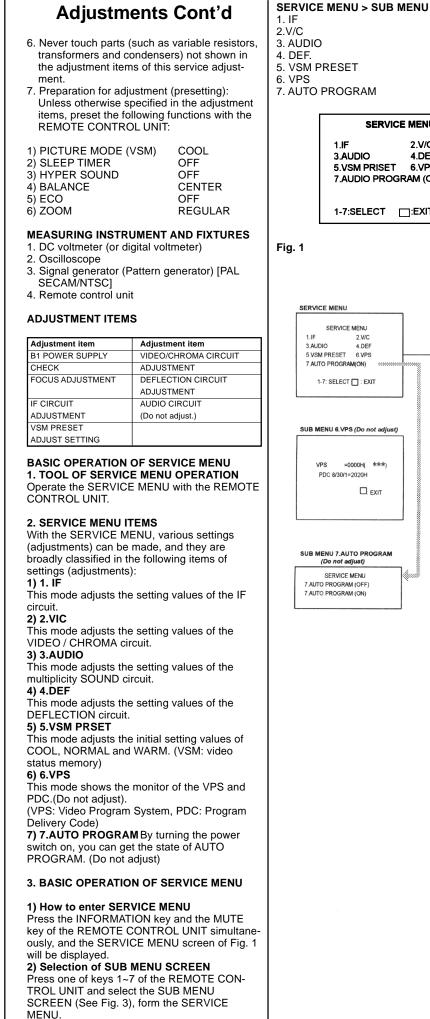
Fig.

SYS

Fig

DL KEY	Setting item 2. V/C
key	Setting value 1. CUTOFF 2. DRIVE 3. BRIGHT 4. CONT. 5. COLOUR (PAL/SECAM/NTSC) 6. TINT (NTSC) 7. BLACK OFFSET (SECAM) 8. SHARP (Do not adjust) 9. TEXT CONT (Do not adjust) 10. DC TRAN RATE (Do not adjust) 11. BLACK OFFSET (Do not adjust) 12. B.S.OFF (Do not adjust)
	Setting item 3. AUDIO
EM CONSTANT	Setting value (Do not adjust) 1. CONC LIMIT 2. A2 ID THR
	Setting item 4. DEF.
	Setting value 1. TRAREZ 2. V-SHIFT 3. V-SIZE 4. H-CENT 5. H-SIZE 6. EW-PIN 7. V-S. CR (Fixed) 8. V-EDGE (Fixed) 9. EW-COR (Fixed) 10. ABL POINT (Do not adjust) 11. ABL GAIN (Do not adjust)
	Setting item 5.VSM PRESET
	Setting value 1. BRIGHT (COOL/NORMAL/WARM) 2. CONT. 3. COLOUR 4. SHARP 5. TINT 6. R DRIVE 7. B DRIVE 8. BASS 9. TREBLE
	Setting item 6. VPS (Do not adjust)
m Value OL/NORMAL COOL EEP TIMER OFF ATIAL EFFECT OFF UE BACK ON OM REGULAR OFF	Setting value VPS Setting item 7. AUTO PROGRAM (Do not adjust) Setting value ON/OFF
O OFF LANCE CENTER NGUAGE ENGLISH IILD LOCK ID NO.****	 BEFORE STARTING SERVICE ADJUSTMENT 1. There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components. 2. The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values. 3. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment. 4. Make sure that connection is correctly made to 0.0000000000000000000000000000000000
PF)	to AC power source. 5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.

use the most appropriate signal for adjustment.



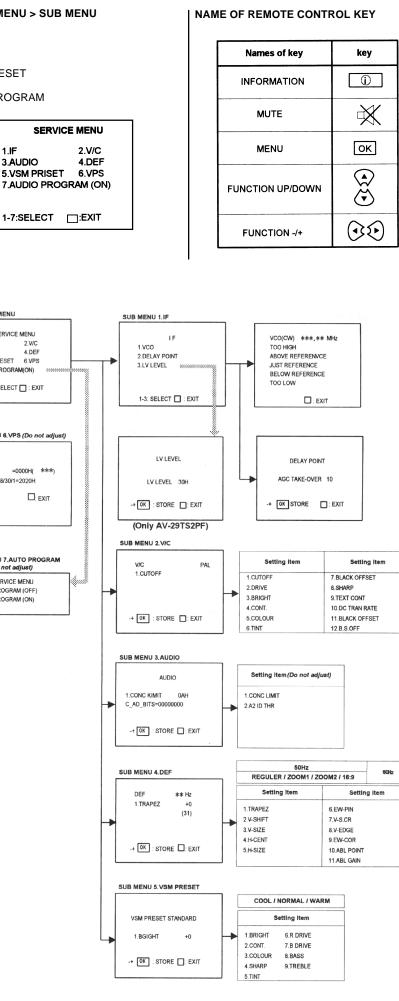


Fig. 3 SUB MENU SCREEN.

3) Method of Setting

1) Method of Setting 1.IF

- [1. VCO]
- 1) 1 Key. Select 1.IF. 2) 1 Key. Select 1 .VCO
- 3) The VCO (CW) screen will be displayed in yellow when the AFC voltage is at a certain level and in blue when it is at other levels. 4) INFORMATION Key. As you press this twice,
- you will return to the SERVICE MENU.

[2. DELAY POINT]

- 1) 1 Key. Select 1.IF
- 2) 2 Key. Select 2.DELAY POINT. 3) FUNCTION -/+. Set (adjust) the setting values of the setting items.
- 4) MENU Key Memorize the set value. (Before storing the setting values in memory, do not press the CH. TV / VIDEO, DISPLAY, POWER ON / OFF keys - if you do, the values will not be stored in memory.)
- 5) INFORMATION Key When this is pressed twice, you will return to the SERVICE MENU.

[3. LV LEVEL] (Only AV-29TS2PF)

- 1) 1 Key. Select 1.IF
- 2) 3 Key. Select 3.LV LEVEL

3) FUNCTION -/+. Set (adjust) the setting values

- of the setting items 4) MENU Key. Memorize the set value. (Before storing the setting values in memory, do not press the CH, TV / VIDEO, DISPLAY, POWER ON / OFF keys - if you do, the values will not
- 5) INFORMATION Key. When this is pressed twice, you will return to the SERVICE MENU.

2) Method of setting 2.V/C, 3.AUDIO, 4.DEF, 5.VSM PRESET and 6.VPS.

- 1) 2~6 Key. Select one from 2. V/C, 3. AUDIO, 4. DEF, 5. VSM PRESET and 6. VPS.
- items.
- C is selected, press its "-" or "+" key, and the whole will change to a faint horizontal line appearing in its center. Press the same "-" or original 1.CUTOFF screen.)
- 4) MENU Key. Memorize the setting value. (Before storing the setting values in memory, do not press the CH. TV / VIDEO, DISPLAY. POWER ON / OFF key - if you do, the values
- 5) DISPLAY Key. Return to the SERVICE MENU screen.

collectively to the preset value at the time of shipment from the factory.

SERVICE MENU, then press the display key.

ltem

Measuring instrument

Test point TP-91(B1)

Description 1. Receive a whole black signal.

Make sure that the voltage (29") DC116.5±2V. (21")

FOCUS ADJUSTMENT

Measuring instrument Signal generator

Description

- 1. Receive a cross-hatch sigr 2. While watching the screen
 - FOCUS VR to make the ve tal lines as fine and sharp a
 - 3. Make sure that when the so
 - the lines remain in good for

IF CIRCUIT ADJUSTMENT (1 AV-29TS2EK)

Measuring instrument Remote control unit

Adjustment part P. CW TRANSF. [In IF PWB]

- 2) FUNCTION UP/DOWN Key. Select setting
 - colour of the characters TO on the screen changes from (Step 1) 5. Turn the core of P. CW TR colour of the characters TO from blue to Yellow. (Step 2
- will not be stored in memory.)

4) Release of Service Menu

Screen display	1 —
TOO HIGH	<u>Yellow</u> →
ABOVE REFERENCE	Blue 🔶
JUST REFERENCE	Blue
BELOW REFERENCE	Blue 🔶
TOO LOW	Blue →

Item Adjustment of DELAY POINT

- be stored in memory.)

1) This mode initializes every existing set value

POWER SUPPLY CHECK

Check of B1 voltage

Signal generator DC voltmeter

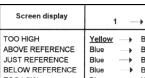
TP-E()) [X connector in MAIN PWB]

- 2. Connect a DC voltmeter to TP-91 (B1) and
- TP-E (卅)

- 3) FUNCTION -/+. Set (adjust) the setting values of the setting items. (When 1. CUTOFF of 2.V/ "+" key again, and the screen will return to the

3) Method of setting 7.AUTO PROGRAM.

1) After completing the setting, return to the



: EXIT

 Make sure that the voltage is DC142.5±2V. (29") DC116.5±2V. (21") FOCUS ADJUSTMENT 	 Select 1.IF from the SERVICE MENU. Select 2.DELAY POINT by pressing the 2 key on the remote control. Adjust the FUNCTION - or + key until video
Item Adjustment of FOCUS	5. Press the MENU key and memorize the set value.
Measuring instrument Signal generator	 Turn to other channels and make sure that there are no irregularities.
Adjustment part FOCUS VR [In HVT]	Setting item (Adjustment item) DELAY POINT (AGC TAKE-OVER)
 Description 1. Receive a cross-hatch signal. 2. While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible. 3. Make sure that when the screen is darkened, the lines remain in good focus. 	Variable range 0~63 Initial setting value 30 IF CIRCUIT ADJUSTMENT [FOR AV-29TS2PF]
IF CIRCUIT ADJUSTMENT (for AV-29TS2EN/ AV-29TS2EK)	Item Adjustment of VCO
Item Adjustment of VCO	Measuring instrument Remote control unit
Measuring instrument Remote control unit	Adjustment part P.CW TRANSF P.L-VL CW TRIM.C
Adjustment part P. CW TRANSF. [In IF PWB] Description Do not make any adjustment unless the adjustment is out of way and you cannot get correct PICTURE. 1. Select 1 IF from the SERVICE MENU. 2. Press 1 key and select 1.VCO. 3. Select a receivable broadcast channel with the CHANNEL key. 4. Turn the core of P. CW TRANSF. until the colour of the characters TOO HIGH displayed on the screen changes from blue to Yellow. (Step 1) 5. Turn the core of P. CW TRANSF. until the colour of the characters TOO LOW changes from blue to Yellow. (Step 2) 6. Then slowly turn back the core of P. CW TRANSF. until the colour of the characters JUST REFFERENCE changes from blue to Yellow. (Step 3) 7. Press the INFORMATION key three times to return to normal screen. 8. Perform CHANNEL PRESET again, and make sure that each broadcast is being received properly. VCO(CW) = WHZ TOO HIGH ABOVE REFERENCE JUST REFFERENCE JUST REFERENCE JUST REFERENCE JUE → Blue → Blue JUE → Blue → Blue $JUE \to Blue$ JUE → Blue → Blue JUE → Blue → Blue JUE → Bl	VCO(CW) MHz fv TOO HIGH ABOVE REFERENCE JUST REFERENCE JUST REFERENCE JUST REFERENCE YELLOW BELOW REFERENCE TOO LOW Image: Control of the state of the s
Measuring instrument Remote control unit	
DELAY POINT (AGC TAKE-OVER) 1. Receive a black and white signal (colour off).	Continues next page.

Adjustments Cont'd

Item Adjustment of DELAY POINT (AGC)

Measuring instrument Signal generator

Remote control unit

DELAY POINT (AGC TAKE-OVER)

- 1. Receive a black and white signal (colour off).
- 2. Select 1. IF from the SERVICE MENU. 3. Select 2. DELAY POINT by pressing the 2 key
- on the remote control. 4. Adjust the FUNCTION - or + key until video
- noise disappears. 5. Press the MENU key and memorize the set
- value
- 6. Turn to other channels and make sure that there are no irregularities.

Setting item (Adjustment item)

DELAY POINT (AGC TAKE-OVER) Variable range: 0~63 Initial setting value: 30

Item

Adjustment of L-DET. LEVEL

Measuring instrument

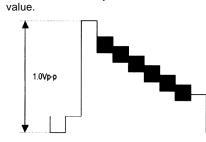
Signal generator Oscilloscope [H-rate] Remote control unit

Test point

EXT-1 (19) pin (TV OUT)

Description

- 1. Receive a SECAM-L full field colour bar signal (100% white).
- 2. Connect an oscilloscope terminated 75 Ω to EXT-1 terminal of (19) pin (TV out).
- 3. Select 1. IF from the SERVICE MENU.
- 4. Press 3 key and select 3. LV LEVEL.
- 5. Adjust the LV LEVEL by FUNCTION -/+ key and make the wave detector output 1 .0Vp-p. 6. Press the MENU key and memorize the set



VSM PRESET ADJUST SETTING

Item

Setting of VSM PRESET ADJUST

Measuring instrument Remote control unit

- Adjustment part
- 1. BRIGHT
- 2. CONT.
- 3. COLOUR
- 4. SHARP
- 5. TINT
- 6. R DRIVE
- 7. B DRIVE
- 8. BASS 9. TREBLE

Description

- 1. Select 5.VSM PRESET from the SERVICE MENU
- 2. Select COOL with the PICTURE SETTING.

Item

Measuring instrument

Signal generator

Test point

1.CUT OFF

*** ÌΒ)

(R)

(Ġ)

Remote control unit

Adjustment part

SCREEN VR [In HVT]

- 3. Adjust the FUNCTION UP/DOWN and -/+ key to bring the set values of 1.BRIGHT 9.TRE-
- BLE to the values shown in the table.
- 4. Press the MENU key and memorize the set value.
- 5. Respectively select the VSM PRESET mode

for NORMAL and WARM, and make similar adjustment as in 3 above 6. Press the MENU key and memorize the set

value Refer to OPERATING INSTRUCTIONS for the

PICTURE SETTING. VSM preset mo COOL WARM ettina iter



VIDEO/CHROMA CIRCUIT ADJUSTMENT The setting (adjustment) using the REMOTE

CONTROL UNIT is made on the basis of the initial setting values.

The setting values which adjust the screen to the optimum condition can be different from the initial setting values. Items in () are automatically set to table

Adjustment of WHITE BALANCE (Low Light)

2.	Variable range	Initial setting value	Colour s	system	Variable		Initial sett	ing value	
_	range								
2			Setting (adjustment)item		range	PAL	SECAM	NTSC 3.58	NTSC 4.43
< ·	-128~+127	100	5. COLOUR		-60~+67	+0	-	+	(+0)
_	-120~+127	-100	6.TINT	TV	-64~+63			+0	(+0)
. I.	-128~+127	-100		VIDEO	-04~ +03			(+0)	(+0)
4			7.BLACK OFF	R-Y	-8~+7	+0	←		
3	-128~+127	-100		B-Y	-8~+7	+0	+		
+			8.SHARP (Do not	t adjust)	20	-15		+0	(+0)
र	-31~+32	+0			-30~+21	(Fixed)	•	(Fixed)	(Fixed
3	-31~+32	+0	9.TEXT CONT (Do not adjust)		-128~+127	-30 (Fixed)	-		
	-31~+32	+0		-		-8 (Fixed)	•		
	-51152 +		11.BLACK OFF SET			-1 (Fixed)	+		
	-31~+32	+0	12.B.S.OFF			OFF	-		
_		-31~+32 -31~+32	-31~+32 +0 -31~+32 +0	-31~+32 +0 -31~+32 +0 -31~+3	-31~+32 +0 9.TEXT CONT (Do not adjust) -31~+32 +0 10.DC TRAN RATE (Do not adjust) -31~+32 +0 11.BLACK OFF SET (Do not adjust) -31~+32 +0 12.B.S.OFF	-31~+32 +0 9.TEXT CONT (Do not adjust) -128~+127 -31~+32 +0 10.DC TRAN RATE (Do not adjust) -128~+127 -31~+32 +0 11.BLACK OFF SET (Do not adjust)	-31~+32 +0 9.TEXT CONT (Do not adjust) -128~+127 (Fixed) -30 (Fixed) -31~+32 +0 10.DC TRAN RATE (Do not adjust) -38 -8 (Fixed) -8 (Fixed) -31~+32 +0 11.BLACK OFF SET (Do not adjust) -1 (Fixed) -1 (Fixed) -31~+32 +0 12.B.S.OFF -1 (Fixed)	31~+32 +0 9.TEXT CONT -128~+127 -30 (Fixed) 31~+32 +0 ID.DC TRAN RATE -30 (Fixed) -30 31~+32 +0 ID.DC TRAN RATE -8 -6 (Fixed) -128~+127 -10 ID.BC TRAN RATE -8 (Do not adjust) -1 (Fixed) -1 ID.BC TRAN RATE (Do not adjust) <td>-31~+32 +0 Image: Constant of the second se</td>	-31~+32 +0 Image: Constant of the second se

Setting (adjustment) item		Variable	Initial	Colour	system	Variable	Initial setting value			
		range	setting value	Setting (adjustment)item		range	PAL	SECAM	NTSC 3.58	NTSC 4.43
	R	100 107	100	5. COLOUR		-60~+67	+0	-	-	(+0)
	ĸ	-128~+127	-100	6.TINT	TV	-64~+63			+0	(+0)
1.CUT OFF	G	-128~+127	-100	v	VIDEO	-04 +03			(+0)	(+0)
		-120 -127		7.BLACK	R-Y	-8~+7	+0	-		
	в	-128~+127	-100	OFF SET	B-Y	-8~+7	+0	-		
				8.SHARP (Do not adjust)		-36~+27	-15		+0	(+0)
	R	-128~+127	+0			-50 - +2/	(Fixed)	-	(Fixed)	(Fixed)
2.DRIVE				9.TEXT(RGB) CO	DNT	-128~+127	-45			
	в	-128~+127	+0	(Do n	(Do not adjust)		(Fixed)	-		
				10.DC TRAN RATE		-1	-08			
3.BRIGHT		-128~+127	+0	(Do not adjust)			(Fixed)	-		
				11.BLACK STRE	тсн		-01			
4.CONT				(Do ne	ot adjust)		(Fixed)			
		-128~+127	+0	12.B.S.OFF			OFF			
				(Do not adjust)			(Fixed)			

Adjustment of WHITE BALANCE(High Light)

Measuring instrument

Signal generator Remote control unit Adjustment part 2.DRIVE

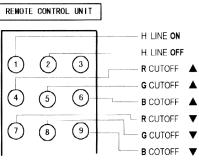
(R) ** (B) **

Description

- 1. Receive a black and white signal (colour off).
- 2. Select 2.V/C from the SERVICE MENU. 3. Select 2.DRIVE with the FUNCTION UP/
- DOWN key

Description

- 1. Receive a black and white signal(colour off). 2. Select 2. V/C from the SERVICE MENU.
- 3. Select 1 .CUT OFF with the FUNCTION UP/
- DOWN key. 4.Show one horizontal line with the I key. With the SCREEN VR, adjust so that the horizontal line will not be too bright.
- . Gradually turn the SCREEN VR from the left end to the right direction to bring one of the red, green and blue colour faintly visible.
- 6. Press 4~9 key, and bring out the other 2 colours and make one horizontal line visible in white.
- 7. Turn the SCREEN VR and bring one white horizontal line faintly visible.
- 8. Press 2 key, turn off 1 CUT OFF screen. 9. Press the MENU key and memorize the set
- value



4. Change the screen colour to white with 4/7(R)key or 6/9(B) key. 5. Press the MENU key, and memorize the

the best contrast

Adjustment part

SECAM COLOUR

Adjustment part

Adjustment part

Signal generator

Remote control unit

Adjustment part

Adjustment part

PAL COLOUR

(PAL COLOUR)

(75% white).

DOWN key.

setting value.

Adjustment part

SECAM COLOUR

75% white).

setting value.

(SECAM COLOUR)

Description

instrument]

Item

5.COLOUR (PAL~NTSC)

Oscilloscope

Test point

(NTSC 4.43 COLOUR)

Measuring instrument

NTSC COLOUR

(SECAM COLOUR)

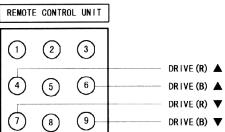
manner as for above.

(NTSC 3.58 COLOUR)

value.

Description

respective set value.



Item Adjustment of SUB BRIGHT

Measuring instrument Remote control unit

Adjustment Part 3.BRIGHT

Description

- 1. Receive any broadcast.
- 2. Select 2.V/C from the SERVICE MENU.
- 3. Select 3.BRIGHT with the FUNCTION UP/ DOWN key.
- Set the initial setting value with the FUNC-TION -/+ key.
- 5. If the brightness is not the best with the initial set value, make fine adjustment until you get TP-47B the best brightness. TP-E(册) ICRT SOCKET PWBI
- 6. Press the MENU key and memorize the set value.

Item

Adjustment of SUB CONT.

Measuring instrument Remote control unit

Adjustment Part 4 CONT

Description

- 1. Receive any broadcast.
- 2. Select 2.V/C from the SERVICE MENU. 3. Select 4.CONT with the FUNCTION UP
- DOWN key.
- 4. Set the initial setting value with the FUNC-TION - or + key.
- 5. If the contrast is not the best with the initial set value, make fine adjustment until you get the best contrast.
- 6. Press the MENU key and memorize the set value.

[Method of adjustment without using measuring

2. Select 2.V/C from the SERVICE MENU.

with the FUNCTION - or + key.

3. Select SCOLOUR with the FUNCTION UP/

4. Set the initial setting value for PAL COLOUR

5. If the contrast is not the best with the initial

Item Adjustment of SUB COLOUR I

Measuring instrument

Remote control unit

Adjustment part

5.COLOUR

(PAL~NTSC)

Description

instrument]

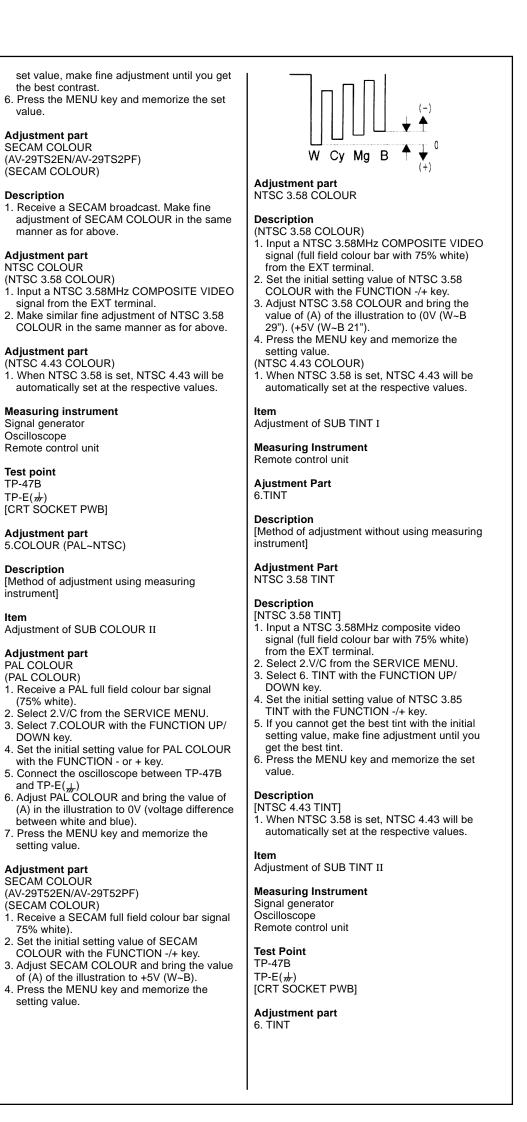
Adjustment part

PAL COLOUR

(PAL COLOUR)

DOWN key.

1. Receive any broadcast.



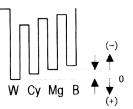
Adjustments Cont'd

Description [Method of adjustment using measuring instrument1

Adjustment part NTSC 3.58 TINT

Description

- [NTSC 3.58 TINT] 1. Input a NTSC 3.58MHz composite video signal (full field colour bar with 75% white) from the EXT terminal.
- 2. Select 2.V/C from the SERVICE MENU.
- 3. Select 6.TINT with the FUNCTION UP/DOWN kev
- 4. Set the initial setting value of NTSC 3.85 TINT with the FUNCTION - or + key.
- 5. Connect the oscilloscope between TP-47B and TP-E(#)
- 6. Adjust NTSC 3.58 TINT to bring the value of (A) in the illustration to (+5V 29") (+2V 21") (voltage difference between white and magenta)
- 7. Press the MENU key and memorize the setting value



[NTSC 4.43 TINT]

1. When NTSC 3.58 is set. NTSC 4.43 will be automatically set at the respective values.

Item

Adjustment of BLACK OFFSET (SECAM) I

Measuring Instrument Remote control unit

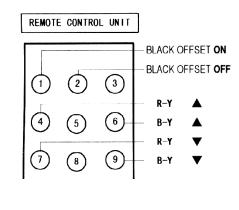
Adjustment Part 7.BLACK OFFSET

(R-Y)

*** (B-Y)

Description

- [Method of adjustment without measuring instrument1
- 1. Receive a SECAM broadcast.
- 2. Select 2. V/C from SERVICE MENU.
- 3. Select 7. BLACK OFFSET with the FUNC-TION UP/DOWN key.
- 4. Set the initial setting value for BLACK OFFSET (R-Y) and (B-Y) with 4 and 7 or 6 and 9 keys of the remote control.
- 5. If the picture is not the best with the initial setting value, make fine adjustment until you get the best picture.
- 6. Press the MENU key and memorize the setting value.



Item Adjustment of BLACK OFFSET (SECAM) II

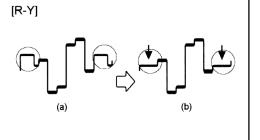
Measuring Instrument Signal generator Oscilloscope Remote control unit

Test Point 35 PIN (R-Y) 36 PIN (B-Y) IC-101 OF MAIN PWB

Adjustment part 7. BLACK OFFSET (R-Y) *** (B-Y) ***

Description

- [Method of adjustment using measuring instrument]
- 1. Receive a SECAM COLOUR bar signal (full field colour bar 75% white). 2. Select 2. V/C from SERVICE MENU.
- 3. Select 7. BLACK OFFSET with the FUNC-
- TION UP/DOWN key. 4. Connect the oscilloscope between 35 pin of
- IC-101 and TP-F. 5. By using 4 and 7 keys of the remote control. adjust the BLACK OFFSET (R-Y) so that it becomes the waveform changes from (a) to (b) shown in the figure.
- 6. Connect the oscilloscope between 36 pin of IC-101 and TP-F.
- . By using 6 and 9 keys of the remote control, adjust the BLACK OFFSET (B-Y) so that it becomes the waveform changes from (c) to (d) shown in the figure.
- . If the picture is not the best with the adjusted picture, make fine adjustment until you get the best picture.
- 9. Press the MENU key and memorize the setting value.



[B-Y]

DEFLECTION CIRCUIT ADJUSTMENT There are 5 modes of adjustment (1) 50Hz

mode ((1) REGULAR, (2) ZOOM1, (3) ZOOM2. (4) 16:9) and (2) 60Hz mode (REGULAR) depending upon the kind of signals (VERTICAL

FREQUENCY 50Hz / 60Hz). When the 50Hz REGULAR mode has been established, the setting of other modes will be

done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.

The setting values which adjust the screen to the optimum condition can be different from the initial set values.

		Variable range	Initial setting value					
Setting (adjustment) item	Adjustment name		50Hz mode				60Hz	
item			REGULAR	ZOOM1	ZOOM2	16:9	mode	
1. TRAPEZ	Trapezoidal distortion correction	-32~+31	+16	-2	-4	+1	-1	
2.V-SHIFT	Vertical center	-32~+31	-13	+2	+3	+2	+12	
3.V-SIZE	Vertical hight	-64~+63	-26	+16	+27	-25	-1	
4.H-CENT	Horizontal center	-16~+15	-9	+0	+0	-9	+5	
5.H-SIZE	Horizontal width	-32~+31	+15	-3	-3	+0	+0	
6.EW-PIN	Side pin correction	-32~+31	+2	+11	+20	-14	-1	
7.V-S.CR (Fixed)	Vertical hight correction	-16~+15	+2	+1	+4	+0	+0	
8.V-EDGE (Fixed)	Vertical edge correction	-08~+07	+7	+0	+0	+0	+0	
9.EW-COR (Fixed)	Side pin for corner correction	-08~+07	-2	+3	+4	+0	-1	
10.ABL POINT (Do not adjust)	Auto beam limited point	-08~-01	-4	-4	-4	-4	-4	
11.ABL GAIN (Do not adjust)	Auto beam limiter gain	-08~-01	-4	-4	-4	-4	-4	

			Initial setting value					
Setting (adjustment)	Adjustment name	Variable range			60Hz			
item			REGULAR	ZOOM1	ZOOM2	16:9	mode	
2.V-SHIFT	Vertical center	-32~+31	-18	-2	-2	0	+2	
3.V-SIZE	Vertical hight	-64~+63	-5	+21	+33	-31	-2	
4.H-CENT	Horizontal center	-16~+15	-12	+0	+0	-12	+4	
7.V-S.CR (Fixed)	Vertical hight correction	-64~+63	+33	+15	+20	+10	+0	
10.ABL POINT (Do not adjust)	Auto beam limited point	-08~-01	-4	(←	←	Ļ	
11.ABL GAIN (Do not adjust)	Auto beam limiter gain	-08~-01	-4	←	←	← ⁻	←	

ltem 1. Adjustment of TRAPEZ

Measuring Instrument

Signal generator Remote control unit

Adjustment Part 1.TRAPEZ

Description

- [50Hz REGULAR mode]
- 1 Receive a cross-hatch signal of vertical frequency 50Hz.

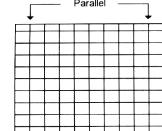
2. Select 4.DEF from the SERVICE MENU.

3. Select 1 .TRAPEZ with the FUNCTION UP/

DOWN key.

4. Set the initial setting value of TRAPEZ with the FUNCTION - or + key. 5. Adjust TRAPEZ and bring the VERTICAL

lines at the right and left edges of the screen parallel

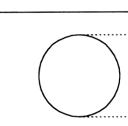


Item 2. Adjustment of V-SHIFT

Adjustment Part

2.V-SHIFT

- Description 6. Receive a circle pattern signal 7. Select 2.V-SHIFT and set the initial setting
- value
- 8. Adjust V-SHIFT to make A = B. 9. Press the MENU key and memorize the set value.





3. Adjustment of V-SIZE

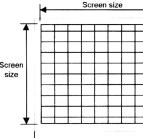
Adjustment Part 3 V. SIZE

Description

10. Receive a cross-hatch signal. 11. Select 3.V-SIZE and set the initial setting value 12. Adjust V-SIZE and make sure that the

vertical screen size of the picture size is in the bellow table

13. Press the MENU key and memorize the set value.



Picture size 100%

REGULAR ZOOM1 92%

Item

4. Adjustment of H.CENTER

Adjustment Part 4.H-CENT.

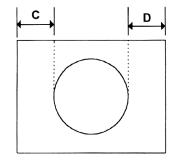
Description

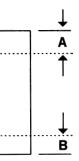
14. Receive a circle pattern signal. 15. Select 4. H-CENT and set the initial setting

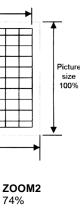


16. Adjust H-CENT to make C=D.

17. Press the MENU key and memorize the set value.







Adjustment Part 5.H-SIZE Description 18. Receive a cross-hatch signal. 19. Select 5.H-SIZE and set the initial setting value.

20. Adjust H-SIZE and make sure that the horizontal screen size of the picture size is in the bellow table 21. Press the MENU key and memorize the set value.

MODE

Item

5. Adjustment of H.SIZE

	REGULAR	ZOOM1	ZOOM2
MODEL			
AV-29TS2EN	92%	85%	85%
AV-29TS2EK	92%	85%	85%
AV-29TS2PF	91%	85%	85%

Item

6. Adjustment of EW-PIN

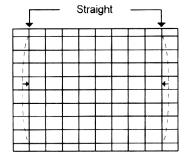
Adjustment Part 6.EW-PIN

Description

22. Select 6.EW-PIN and set the initial setting value

23. Adjust EW-PIN and make the I st.vertical lines at the left and right edges of the screen straight. Also make sure that the 2nd vertical lines are also straight.

24. Press the MENU key and memorize the set value.



Item 7. Adjustment of V-SCR

Adjustment Part 7.V-S.CR

Description

25. Select 7.V-S.CR and set the initial setting value 26. Adjust V-S.CR and make the gaps between

the horizontal lines uniform. 27. Press the MENU key and memorize the set value * No alignment, but adjust this mode if result of

no alignment is too bad

Item

8. Adjustment of V-EDGE

Adjustment Part 8. Ý-EDGE

Description

28. Select 8.V-EDGE and set the initial setting value 29. Adjust V-EDGE and make the gaps between the horizontal lines uniform. 30. Press the MENU key and memorize the set value * No alignment, but adjust this mode if result of no alignment is too bad.

Item 9. Adjustment of EW-COR

Adjustments Cont'd

Adjustment Part 9. EW-COR

Description

31. Select 9.EW-COR and set the initial setting value.

32. Adjust EW-COR and make the vertical lines at the four corners of the screen straight. 33. Press the MENU key and memorize the set value.

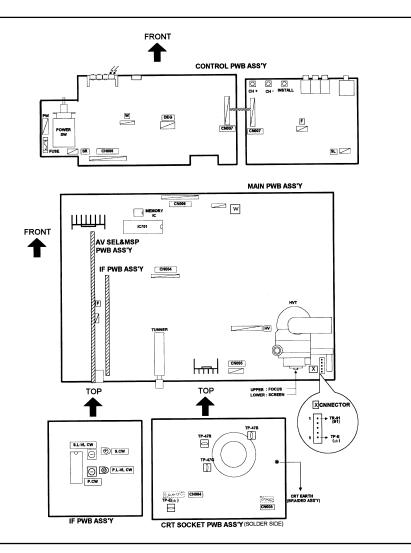
* No alignment, but adjust this mode if result of no alignment is too bad. 34. Make sure that the adjustment is properly

done on the screen of other mode.

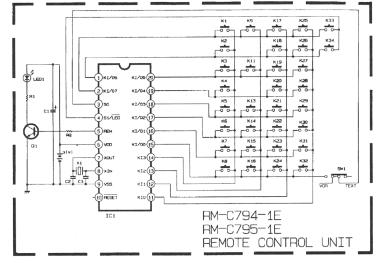
AUDIO CIRCUIT Do not touch 3.AUDIO(1. CONC LIMIT, 2. A2 ID THR) of the SERVICE MENU as it requires no adjustment.

3. AUDIO

Setting item 1. CONC LIMIT	Variable range 00H~FFH	fixed value 0AH
(Do not adjust)		
2. A2 ID THR	00H~FFH	19H
(Do not adjust)		



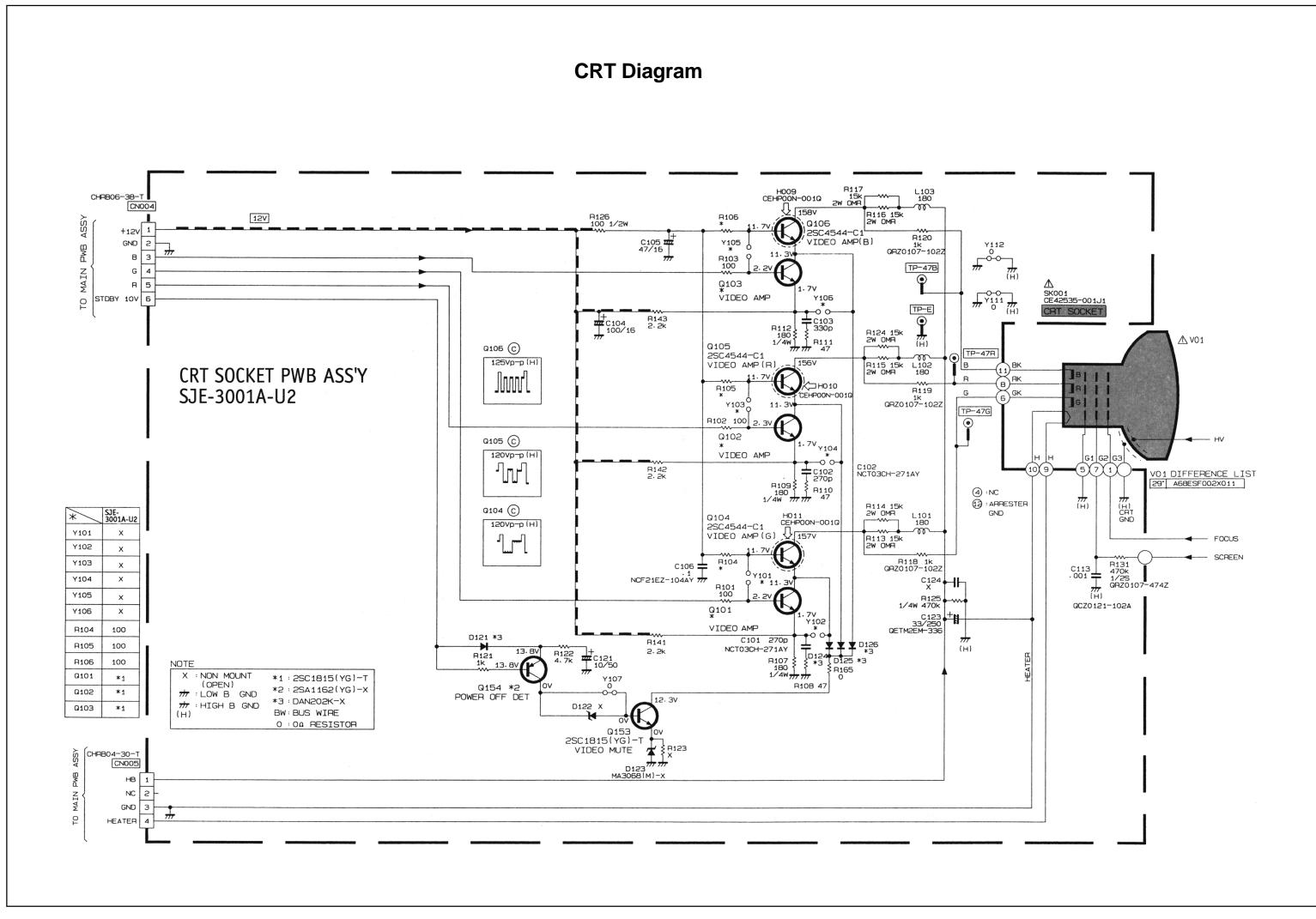
Remote Control Diagram

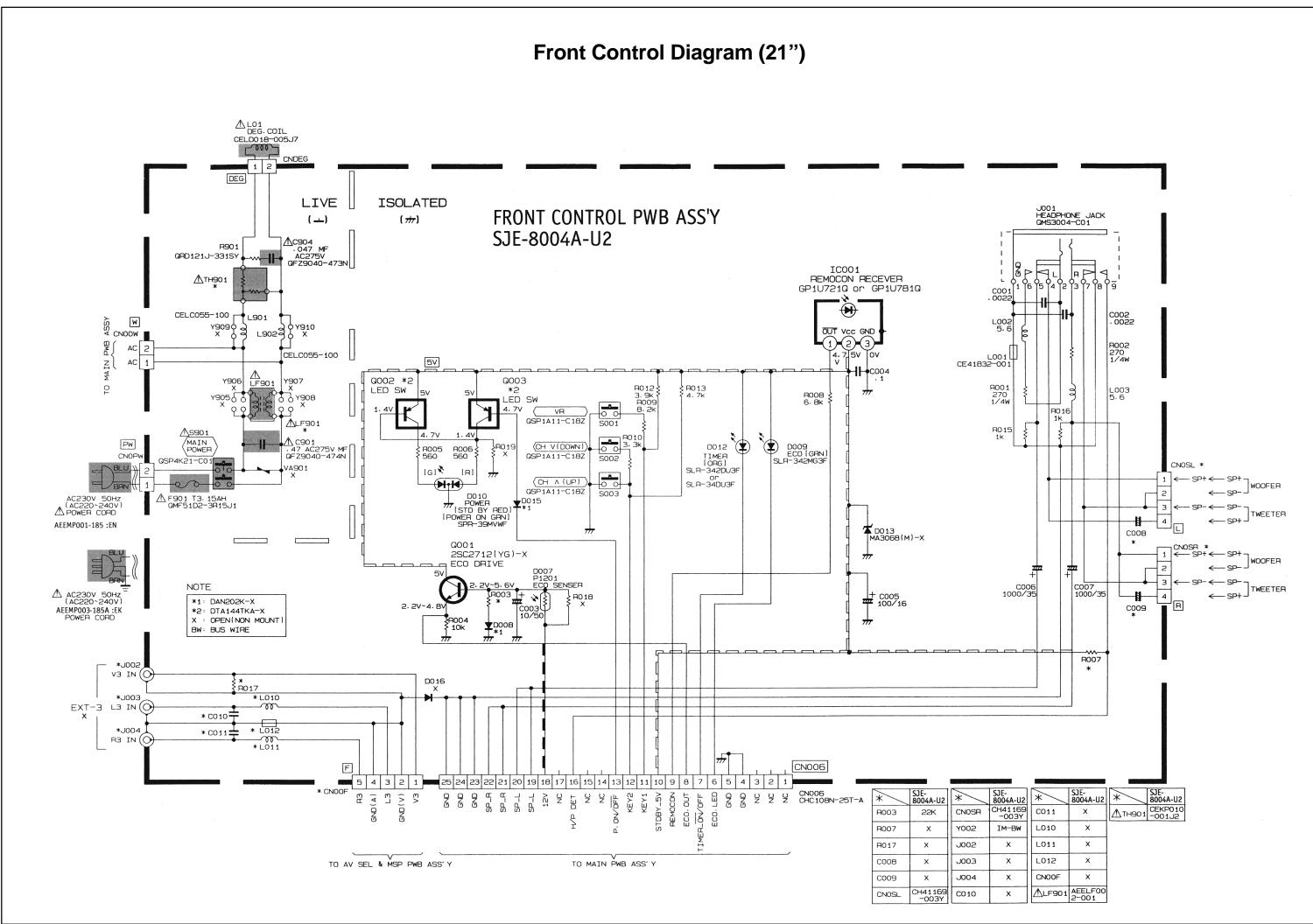


■KEY FUNCTION

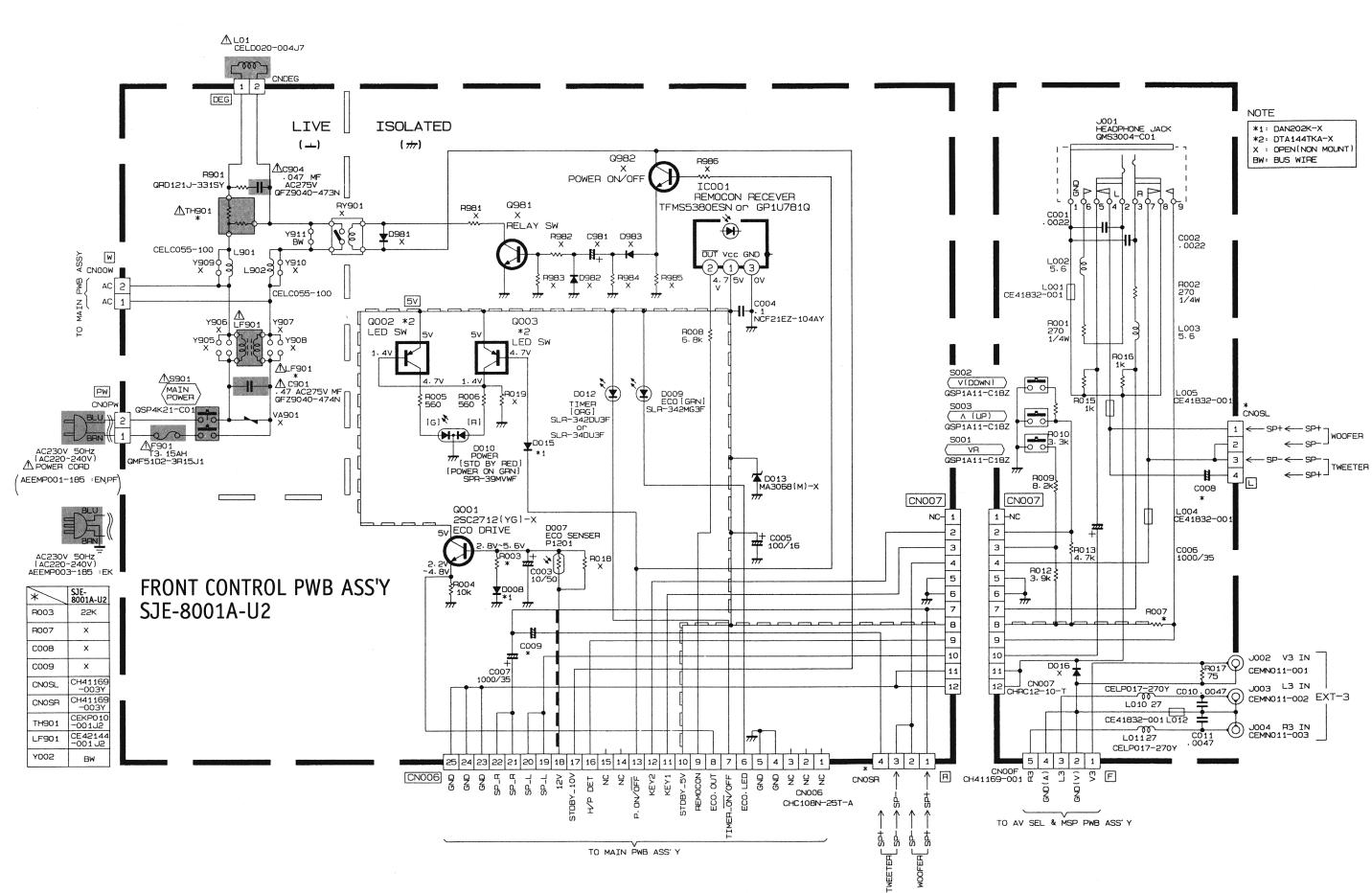
No.	Key Name	No.	Key Name	No.	Key Name	No.	Key Name
1	1	14	3D 🔶	22	MODE (TEXT)	29	CANCEL (TEXT)
2	2	15	P.BASS	22	REW ◀ (VCR)	25	STOP M (VCR)
3	3	16	PIP	23	SIZE (TEXT)	30	INDEX (TEXT)
4	4	17	0	23	FF (VCR)	50	(VCR)
5	5	18	REVEAL (TEXT)	24	SUB PAGE(TEXT)	31	
6	6	10	PLAY (VCR)	24	PV (VCR)	32	•
7	7	19	TV	25	×	33	▼
8	8	20	MENU/OK	26	STORE (TEXT)	34	
9	9	21	HOLD (TEXT)		(VCR)		
11	0	PA (VCR)		27	<u>ن</u>		
13	ZOOM			28			

This area is intentionally left blank.

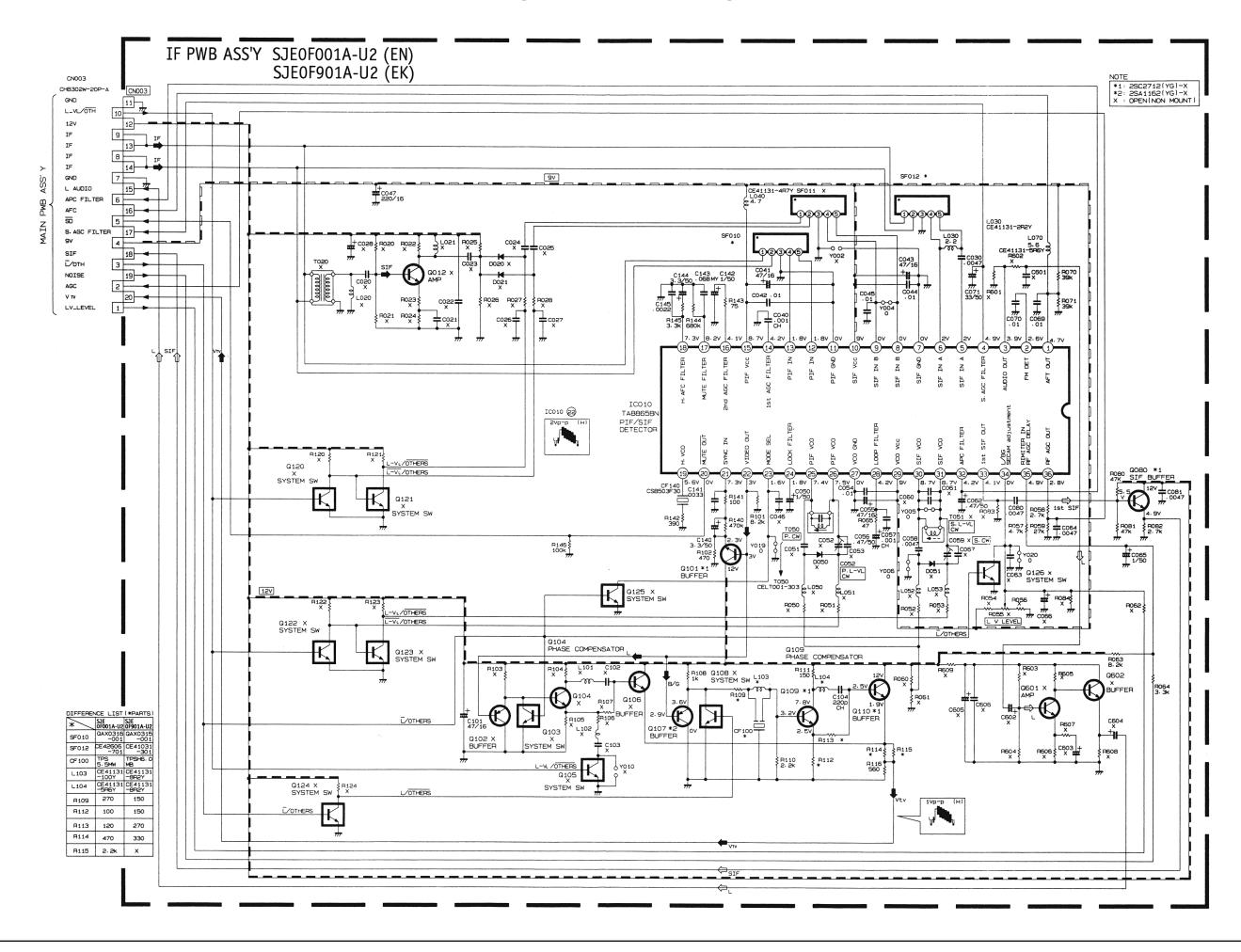


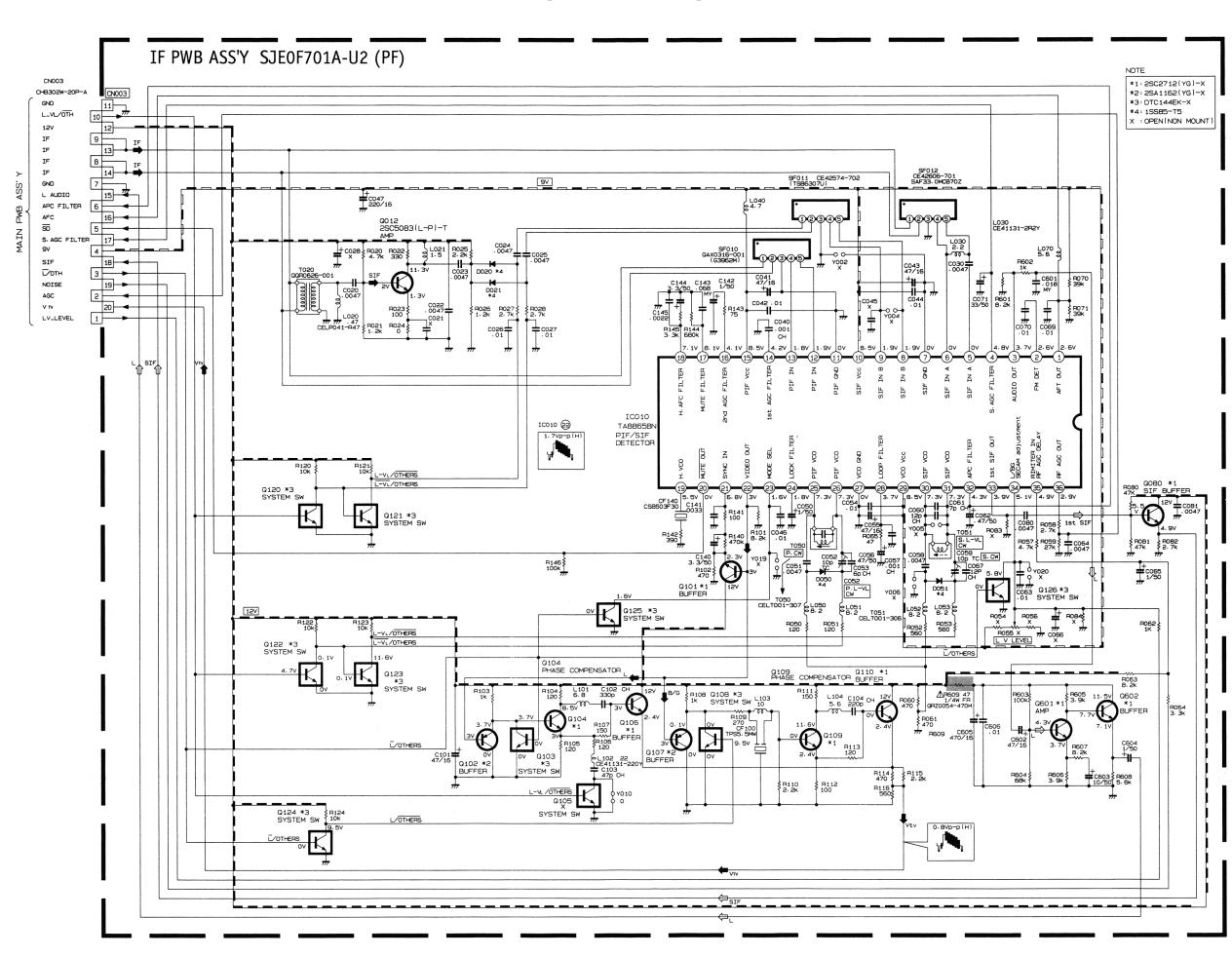


Front Control Diagram (29")



IF Diagram (EN & EK) Diagram





IF Diagram (PF) Diagram

AV Selector & Multi Sound Processor Diagram AV SEL & MSP PWB ASS'Y NOTE SJE0S001A-U2 (EN) *1: 2SC2712(YG)-X *2: 2SA1162(YG)-X *3: MA3130(H)-X *4: MA141WK-X R613 X R614 R615 X 777 SJE0S901A-U2 (EK) SJE0S701A-U2 (PF) C645 3 Z\$P623 BW: BUS WIRE _**||**_+ __||_+ 0 : 00 RESISTOR X : NON MOUNT (OPEN) -0 0--Y003 10/50 #+ + JAP 10 AP02 CE08 --0 0---Y005 X C648 .(13) Y0040
 Q201 *1
 Recently and the second C201 R203 10/50 220 EXT-50 + + + C607 - 1 C6012 CH C6012 CH C602 2 CH C602 2 CH C602 2 CH C602 2 CH P201 C204 ÷ ÷# 21 COMMON GN V2/Y2 IN VSEL OUT GND(V IN) Ļ C604 C603 C612 C611 470p 470p R214 C207 1.5k 100/ C219 22p 5% NCT03CH-220A 18-C203 R205 470/16 75 C207 100/16 R207 \$ 17 GND (V OUT NC (Ys IN) 16 X DMC1 NC(YS IN) C2 IN NC(YS OUT) GND(R) SDA3 NC(G IN) SCL3 NC(G GND) SLOW SW IN NC(B IN) L2 IN GND(B) Ŧ C202 R204 330 77 77 GFLC1HU-103MZ Q401 IC603 X SOUND SEL *1 12C SW Y006 12 IC601 MSP3410B-PP-F MULTI SOUND PROCESSO R202 D402 * D401 G402 *3 #7 # 3 I2C SW OV) ____ I2S-CL 2C-DA m-C215 1/50 R221 470 7 Y612 0 2-IN-L Y611X 0-0 2-IN-R Y614 0 0-0 2-IN-R 232 Y613 2-6 L2015 2015.6 5-R222 470 CE42142-103Z + C610 CE42142-103Z + C610 CE42142-103Z + C610 C610 C610 C610 4. 2V 4. 2V 2-IN-B B-IN-R **−**₿₊ AUDIO GND LSEL OUT R2 IN R231 \$)]] L202 1/50 \$ R232 2_0UT X + Y616 0 P226 c217 Y615X 390 10/50 Y617X R228 c2 Y617X 900 10/50 Y617X 000 10/50 Y617X 000 2.001_F 5-606 CELC005-295 C213 .0047 1 R225 ASEL OUT L203 Y623 X EF602 CE42142-103Z Y624 X R223 J002 CEMJ001-001 827 R227 R224 82k L204 5.6 L205 CE41832-001 7625 Y626 **N**^{ov} L607 CELP026-100Z L201-L204 CELP017-5R6Y R305 * Q603 * 0.11 P618 A MUTE R229 Q204 10K DTC323TK-X A MUTE C637 22 R304 R617 D305 2(V) 2 V3 1 77 1+ C30' **4**□304 R230 10k GND(V) 2 C101 R105 10/50 220 # QRG019J-1015 R104 100 ⁷≰ D301 CNOOF F EXT-: C103 + 220/16 -200/16 -200/10 -200/16 -200/1 ₽1<u>9</u>21 ≹ 9.9V R133 ov 100 4.6V Q101 x VIDEO C104 3 C406 21-₹R415 10k 4. 9V V1/V1 IN GND(V IN) GND(V IN) GND(V IN) SND(V SIN RVC1 IN GND(VS) GND(VS) GND(G) SLOW SW I B IN L1 IN GND(B) AUDIO GNC LTV OUT R1 IN RTV OUT 4.6V R136 BUFFER 19 4. BV 2 FR414 10k DATA GND F103 18 C407 .01 4.9V 17 16 A_RES P108 R115 100 Q102 4.7k 4v 10/50 3.3 4.7k 4v 10/50 8 P F 0105 *2 15 *1 12V R118 180 3. 7V C105 10/50 CLOCH C2out R116 3304, 3V R416 10k 13 4.9 R113 100 12V 5.2R417 V 10k a)►ca c-our⊳(15) Q101. Q102. Q105 : R105 VIDEO BUFFER 8. 24 R117 7≹P1111 ₩ C521 R523 ₹ 22К 22К 9 C523 NCT03CH-820AY C524 NCT03CH-470AY NC PROG ,, 4. 9V Q503 *1 BPF 3502 H+C107 R114 Vтv ≹R131]6.8k 6 R120 R112 **1**0101 1/4W FF Æ <u>10v</u> 5 C115 1/50 BP VCC 10\ NC L504 18 5% L105 CE41832-001 5.6 1_IN_L Y603 0 9524 3 X R525 1k L C111 C401 D403 100/16 MA3100(L)-X 1_IN_R L505 22 5%
 ™
 ™

 C116
 R122

 L102
 1/50

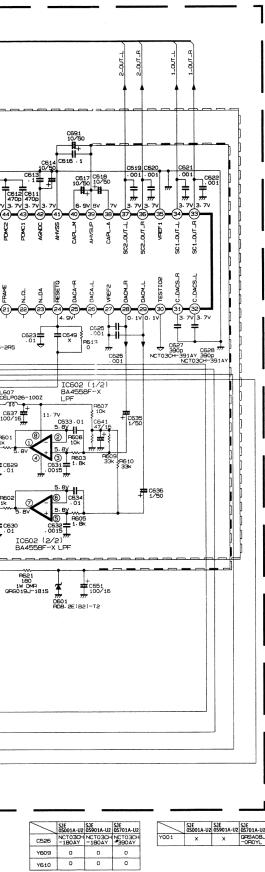
 5.6
 BP

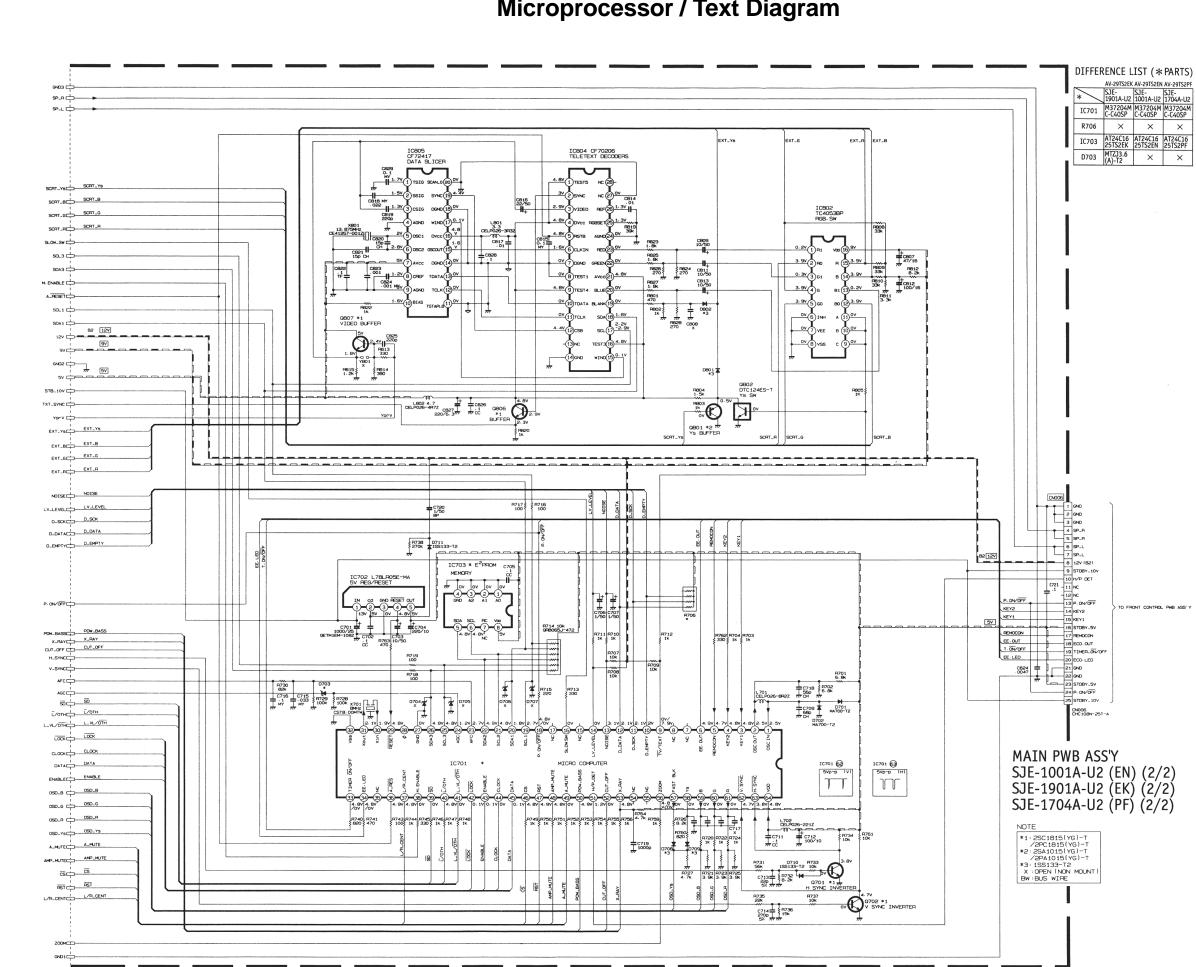
 m
 m
 1 P522 2402 ₹ R531 560 ¥ R135 X C403 10/16 BP QEN61CM-106Z ± c525 ₹ R527 8.2k IC401 TEA6416 VIDEO SW CEMJO01-00 21PIN SOCKET C113 L103 5.6 57 R125 R126 C117 390 10/5 + R120 390 1_0UT_ L104 R124 R127 5.6 R124 00 82k C644 .0047 C118 10/50 TP_12 5. 3V A R403 47 1/4W FR QRZ0054-470M P129 10k L101-L104 CELP017-5R6Y K C404 470/15 + ----1 TP-12 QV601 QV602 Q103 DTC323TK-X A MUTE 0 8 9 Q104 DTC323TK-X A MUTE × C652 10/50 BP R41977 2.2k C653 R130
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 SJE
 SJE</th 0605 X х *2 C304 1/50 1/50 1/50 MAIN PWB ASS'Y DTC323 TK-X 10k * SJE 05501A-U2 05501A-U2 05701A-U2 Y007 X X IM-BW × × C305 1/50 1/50 1/50 G603 X 0 0 0 R616 X R301
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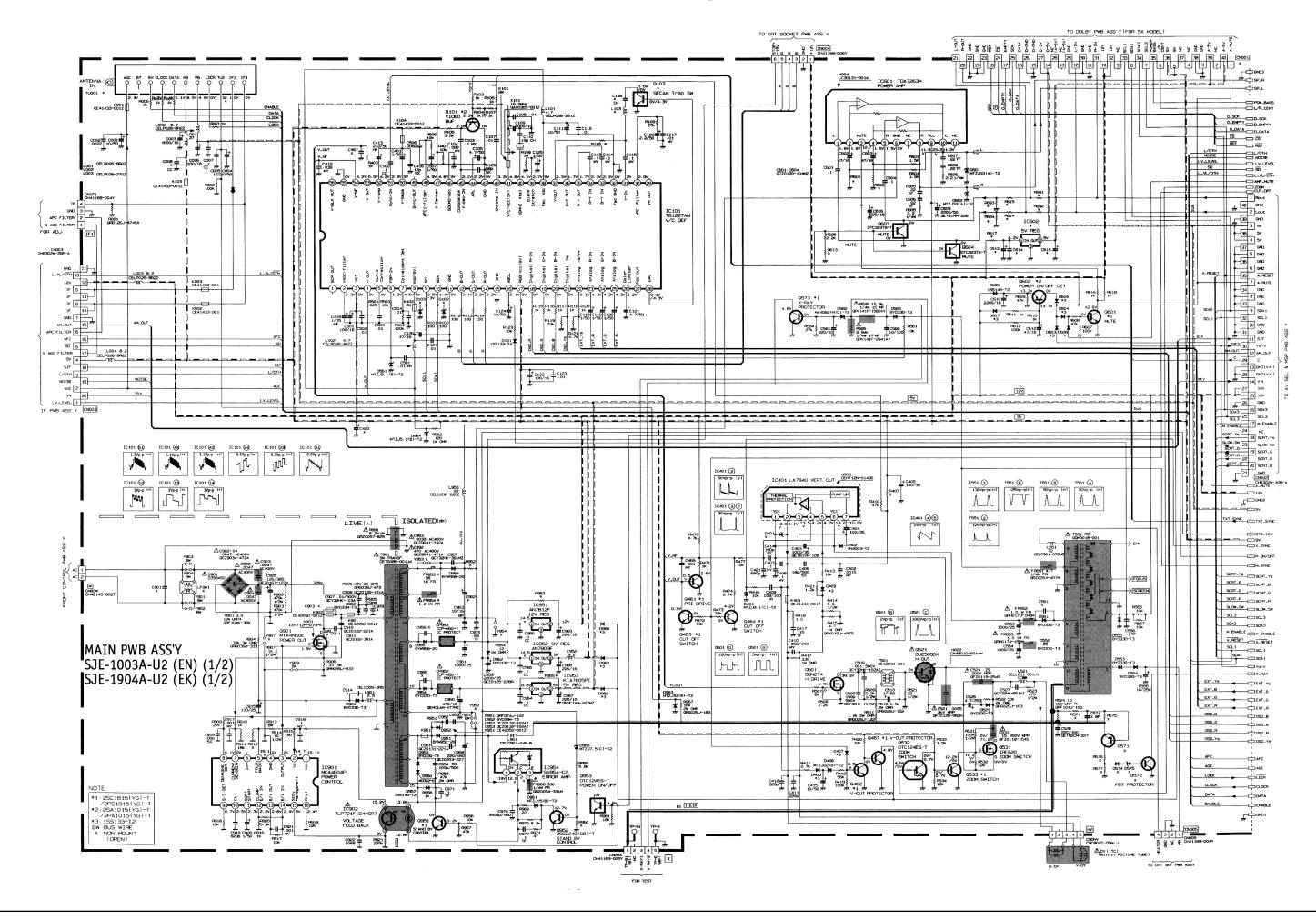
Microprocessor / Text Diagram

AV-29TS2EK AV-29TS2EN AV-29TS2PF							
1901A-U2	1001A-U2	SJE- 1704A-U2					
M37204M C-C40SP	M37204M C-C40SP	M37204M C-C40SP					
×	×	×					
25TS2EK	AT24C16 25TS2EN	AT24C16 25TS2PF					
MTZJ3.6 (A)-T2	×	×					
	SJE- 1901A-U2 M37204M C-C40SP × AT24C16 25TS2EK MTZJ3.6	SJE- 1901A-U2 1001A-U2 1001A-U2 1001A-U2 M37204M M37204M C-C40SP X X AT24C16 AT24C16 25T52EK 25T52EN MTZJ3.6 X					

TU001 CEEK380 CEE -B01 -B0 R125 BW	- SJE- 1A-U2 1704A-U2 K481 CEEK481 2 -B02
R125 BW 4	2 -B02
L103 X LEL	470 470
	0Z -330Z
UIUS ^ ESA	
C128 × QCT -39	25CH QCT25CH 0Z -390Z
R955 QRG029J QRG -180 -18	029J QRG029J 0 -180
D608 ×	× ×
H005 CM42862 CM4 -00H -00	2862 CM42862 H -00H
	C901 CELC901 6J6 -086J6
	12K 12K
D465 MTZJ22 MTZ (C)-T2 (C)-	J22 MTZJ22 T2 (C)-T2
DIECE MTZJ22 MTZ	J22 MTZJ22
	T2 (C)-T2 1K 1K
	47 47
	47 47
R614 0	0 0
	.01 .01
	2.7 2.7
IC602 ×	
R617 ×	
	× ×
C613 ×	× ×
C614 ×	× ×
C615 ×	× ×
	100 100
	100 100
R615 0	0 0
CN001 ×	× ×
-108M -108	
-1015 -101	
R483 QRG039J QRG -330A -330	039J QRG039J DA -330A
T551 CETH019 CETH -00AJ1 -00A	H019 CETH019 AJ1 -00AJ1
L521 CELL011 CELL -002J1 -002	_011 CELL011 2J1 -002J1
R510 QRG029J QRG	029J QRG029J -182
R693 100K 1	00K 100K
R511 QRG029J QRG -222 -222	029J QRG029J -222
C521 QFZ0117 QFZ0	0117 OFZ0117
	0117 QFZ0117 01L -9501L
	32GJ QFP32GJ -223M
	0194 QFZ0194
	0119 QFZ0119
CE21 0FZ0119 0FZ0	0119 OFZ0119
-1545 -154 -1545 -154	$\frac{154S}{\times}$
T EPOE (QRH017K QRH	017K QRH017K
-R82M -R82	2M -R82M .8K 6.8K
	.6K 5.6K
	W BW
-001J7 -001 R006 QRM059J QRM	J7 -001J7
-R27 -R27	-R27
C919 .001 .0	.001
DOCD	× ×
R953 ×	
R919 12K 1	2K 12K
R919 12K 1 Y953 ×	\times \times
R919 12K 1 Y953 × R556 6.8K 6.	
R919 12K 1 Y953 × R556 6.8K 6.	× ×
R919 12K 1 Y953 × R556 6.8K 6 R557 8.2K 8	× × .8K 6.8K

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DBY_5V			
ON/OFF			
DBY_10V	J		
06			

Power Deflection Diagram (21")



Power Deflection Diagram (29")

