

GODVISION

SERVICE MANUAL



29181(Chassis M68)

1、 Caution.....	2
2、 Specification.....	6
3、 BOM list	9
4、 Alignment Procedure..... ..	29
5、 Block Diagram..... ..	39
6、 Schematic Diagram..... ..	40
7、 PCB Layout..... ..	44
8、 Explode View Diagram..... ..	47

This manual is the latest at the time of printing, and does not include the modification which may be made after the printing, by the constant improvement of product

CAUTION:

Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



CAUTION
RISK OF ELECTRIC
SHOCK DO NOT OPEN.



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, with an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the person.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT
EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.

1. Read Instructions- All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

FOR YOUR PERSONAL SAFETY

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



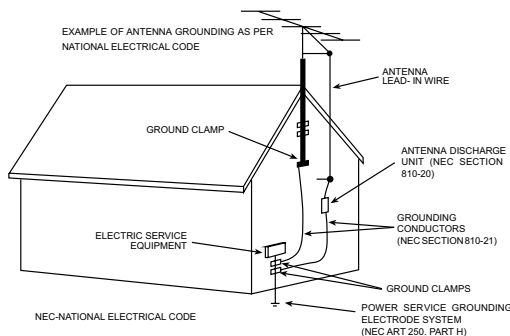
PROTECTION AND LOCATION OF YOUR SET

11.
 - Do not use this television set near water ... for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
 - Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing to qualified service personnel.
12. Choose a place where light (artificial or sunlight) does not shine directly on the screen.
13. Avoid dusty places, since piling up of dust inside TV chassis may cause failure of the set when high humidity persists.
14. The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, to protect it from overheating. These openings must not be blocked or covered.
 - Never cover the slots or openings with cloth or other material.
 - Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.
 - Never place the set near or over a radiator or heat register.
 - Never place the set in a "built-in" enclosure, unless proper ventilation is provided.

PROTECTION AND LOCATION OF YOUR SET

- 15.1. If an outside antenna is connected to the television set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



- 15.2. Note to CATV system installer : (Only for the television set with CATV reception)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.
16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET

18. This television set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.
19. If the television set does not operate normally by following the operating instructions, unplug this television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.
20. When going on a holiday : If your television set is to remain unused for a period of time, for instance, when you go on a holiday, turn the television set " off " and unplug the television set from the wall outlet.

IF THE SET DOES NOT OPERATE PROPERLY

21. If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.
22. Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.
23. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICE AND MODIFICATION

24. Do not use attachments not recommended by the television set manufacturer as they may cause hazards.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

Specs / Products	25181
MasterData	
Customer Id	
Version	
Status	
Locked	
12NC	
Brand	
EAN	
UPC	
Reception	
+Tuning - presets/channels	100, FULL
+Tuning - technology	FS
+Tuning - Indication	
+Freq Bands	FULL
+Channels	
+IF Freq	
+TV Systems Off Air	PAL/SECAM-BG
+Add Systems Ext In	
+TV Systems Multi	PAL
+Sound Systems	
Picture - Processing	
+Scan	Standard
+Scan Modes	4:3
+Wide Screen Switching	
+Combfilter	
+Picture Control	Brightness, Color, Contrast, Tint, Sharpness, color temperature
+Pict Enhancement	
+Pict Noise Reduction	
Picture - Display	
+Display Type	CRT
+Screen Format	4:3
+Size(Visual)" - size/vis. cm	31
+Deflection System (CRT only)	
+Tube Technology (CRT only)	
+CRT Defl	
+CRT Gun	
+CRT Magn field	
+Resolution	
+Coating (only for D.V. sets)	
+White Point	
Sound	
+Leaflet Power	
+RMS Power Intern	
+RMS Power Extern	
+Surround Sound	
+Sound Features	
+Sound Control	
Sound - Speakers	
+Speaker configuration	
+Speakers used	
+Speaker Size	
User Interface	
+Interface Name	UOC III
+Voice Control	
+Menu	Cursor Control
+Menu Colours	
+Menu Languages	Arabic, English, French,Farsi
+Special Features	
+Operational Features	
+PP Features	
+Tuning/Install Features	Auto Channel Prog, Channel exchange, Language Selection, Service Mode
+Clock/Timer Functions	Auto on/off Timer, Crystal Clock, Sleep timer
+Local Controls Front	

Specs / Products	
+Local Controls Top	
+Indicators - screen	
+Indicators - front	
Remote Control	
+Remote Control - scope	TV
+Remote Control - type	Standard
+Remote Control - typenr	
+Remote Control - features	
Connectors Rear	
+Scart RGB+Y/C+CVBS	
+Scart RGB+CVBS	
+Scart CVBS+Y/C	
+Component In (Y/U/V) Cinch	
+In Y/C+Cinch(CVBS+St)	
+In Y/C+Cinch(CVBS+Mo)	
+In Y/C+Cinch(St)	
+In BNC (CVBS)	
+In Cinch(CVBS+St)	
+In Cinch(CVBS+Mo)	
+Out Cinch(CVBS+St)	
+Out Cinch(CVBS+Mo)	
+Out Cinch Audio Stereo	
+Out Cinch Audio Mono	
+Out Cinch Dolby Surround	
+Dig Audio Out	
+Loudspeakers	
+Control Busses	
+Feature Slot	
+ITV Smart Port	
+Terr. Antenna in	75 Ohms
Guide + IR Blaster Jack	
Connectors Front	
+In Cinch (CVBS + St)	
+In Cinch (CVBS+Mo)	
+Headphone Out	
Connectors Side	
+In Y/C + Cinch(CVBS+St)	
+In Y/C + Cinch Stereo	
+In Cinch (CVBS + St)	
+IN Cinch (CVBS + Mo)	
+Headphone Out	
Connectors Top	
Connectors Mechanical	
Styling	
+Cabinet Name	
+Configuration	
+Graphics/Logo's	
+Cabinet Colour and Finish	
+Mechanics	
+Speaker Visibility	Standard
General	
+Segment	Standard 16:9
+Chassis	
+Software Delivery Mode	
+Software Version	
+Mains Voltage	240VAC
+Mains Frequency	50Hz
+Type Mains Cord	
Power Consumption (P)TV in On	
Power Consumption SB in Watts	
Power Consumption Semi SB in W	
+Power in "ON" for	
+Power in Standby for	
+Power in "OFF" for	
Weight (P)TV (incl. Packaging)	

Specs / Products	
Weight (P)TV (excl. Package)	
Weight AVUnit excl Packaging	
+INDICATION on BACKCOVER	
+Channel	
Final Equipment	
+Packaging - methods	
+Documents and manuals	
+Languages DFU	English
+Cables Supplied	
+Antenna Supplied	
+Stand Supplied	
+Aux Equipm Supplied	
Packaging - width cm	
Packaging - height cm	
Packaging - depth cm	
Miscellaneous	
+EAN Indication	
+Approbation	
+Tests	
+Local Integration	
Various Perf. Param.	
+Service Call-Rate	
PIP/POP	
+Type	
+Features	
Digital Reception	
+Transmission	
Built-in Data System	
+Text Standard	
+(Tele)text Features	
+Nbr bckgrnd page / Mem Size	
+Text Technology	
+Digital Data handling	
+Program Guide	
Built-in Clock/Timer	
+Type	
+Features	
Built-in Radio	
+Type	
Built-in PC display	
+PC Synch	
+PC Control	
Built-in DVD drive	
+Type of Medium	
+Type of Deck	
Phased Out Items	
+Tuner/Frontend	
+Sensitivity	
+CRT EHT	
+Lightning Protection	
+Account	
+XX(Radio Antenna in)	
+Non Volatile Memory	
+In Y/C + Cinch(CVBS+Mo)	
Version of deck	

3、BOM List

Part No.	Description	Qty	Unit	BOM text
T8-25RFLN-LG605	ASS'Y - CRT PARTS	1	PC	
T8-25RFLN-CLG605	ASS'Y - FOR CRT BD	1	PC	
34-R100K2-1BX	COIL CHOKE 10 UH +/-10%	1	PC	L501
47-CRT020-NX0G	CRT SOCKET SZS10-2-ED	1	PC	P500
T8-25RFLN-FLG605	ASS'Y - CRT 'ASIN'	1	PC	
44-25RFLN-LG6A	25" CRT A59QDC280X53K (TCG)	1	PC	CRT01
T8-25RFLN-MLG605	ASS'Y - FOR M. BD	1	PC	
18-CB0682-JNX	RES. C.F. 6.8K OHM 1/6W +/-5%	1	PC	R428
18-CD0101-JNX	RES. C.F. 100 OHM 1/4W +/-5%	1	PC	R411
18-CD0479-JNX	RES. C.F. 4.7 OHM 1/4W +/-5%	1	PC	R410
18-EG0479-JHX	RES. FUS. 4.7 OHM 2W +/-5%	1	PC	R422A
18-FG0129-JHX	RES. M.O. 1.2 OHM 2W +/-5%	1	PC	R321
18-FG0181-JHX	RES. M.O. 180 OHM 2W +/-5%	1	PC	R324
27-AGR394-JSX	CAP. M.PP 0.39 UF 250V +/-5%	1	PC	C414
27-ALQ332-J0X	CAP. M.PP 3300PF 1.6KV +/-5%	1	PC	C408
27-ALQ602-J0X	CAP. M.PP 0.006UF 1.6KV +/-5%	1	PC	C413
27-ALR822-J0X	CAP. M.PP 0.0082UF 1.6KV +/-5%	1	PC	C410
27-MBC223-J0X	CAP. M.P.E 0.022UF 63V +/-5%	1	PC	C404
27-RHQ223-J0X	CAP. PP 0.022 UF 400V +/-5%	1	PC	C411
36-HDR029-XX1	TRANSFORMER HOR. DRIVE BCT-101	1	PC	T401
36-LIN210-XX1	COIL LINEARITY 21 UH	1	PC	L400
36-WID801-XX1	COIL WIDTH 800 UH	1	PC	L403
37-FCA001-EAA3A	FLYBACK BSC27-0101V	1	PC	T402
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	R422
T8-C181M5-FCY	ASS'Y - FRONT CABINET	1	PC	
02-GND025-XX6G	ASS'Y - CRT GND WIRE&HOUSE	1	PC	
36-DEG250-BX1	DEGAUSSING COIL 2730MM	1	PC	
42-61308F-XX2G	SPEAKER 8 OHM 8W	1	PC	SP601
42-61308F-XX2G	SPEAKER 8 OHM 8W	1	PC	SP602
46-14026H-02XG	HS 2P 2468#22 570MM S11-2Y/7MM	1	PC	P601H FOR SCAN BD P601
46-35197H-02XG	HS 2P22 700/7 TJC3-2Y	1	PC	P600H FOR SCAN BD P600
54-113970-0U0	PVC TUBE AWG NO.5	0.3	M	FOR SPK HOUSING
54-114000-00X	FELT TAPE (150MMX19MMX0.3MM)	9	PC	
54-205140-000	SPACER CRT MOUNTING T=2MM	4	PC	MTG CRT TO F.CAB.
54-310140-000	SPONGE PAD 50.5X22	2	PC	FOR HI-SPK
54-314740-0X0	CRT FIBRE SHEET (22MMX22MMX0.8	8	PC	MTG CRT TO F.CAB.
57-10654X-00F	TWIST TIE NY66	12	PC	
59-130460-00X	RUBBER PAD (25MMX7MM)	2	PC	STICK ON F.CAB (FOOTING)
59-312160-000	SPEAKER RUBBER CUSHION	8	PC	MTG SPK & F. CAB.
62-321780-0HG	CRT COIL MTG 25"/29"	4	PC	
63-B30100-AB4G	S/T SCREW B 3 X 10 AB	3	PC	MTG KEY BD & PUSH BUTTON

63-B40150-AB2G	S/T SCREW B 4 X 15 AB	12	PC	MTG CRT BKT
63-W30080-AB4G	S/T SCREW W 3 X 8 AB	1	PC	MTG LENS
63-W30100-AB4G	S/T SCREW W 3 X 10 AB	1	PC	MTG LENS & F. CAB.
63-W30120-AB4G	S/T SCREW W 3 X 12 AB	24	PC	MTG FRONT & MIDDLE CABINET
63-W30140-HS4G	S/T SCREW W 3 X 14 HS	8	PC	MTG SPEAKER & F. CAB.
63-Z30100-AB4G	S/T SCREW 3.0 X 10	2	PC	MTG POWER BD & F. CAB.
65-A60200-20EG	TV RAW PAD PAPER 20MM 6MM X 2M	4	PC	MTG CRT
65-Z60100-50EG	NUT M 6.0 X 1.0	4	PC	
67-346620-0E0	CRT BRACKET	4	PC	
67-X21679-0E0	SPRING CRT 6MMX50MMX0.6MM	2	PC	
67-X24970-0E0	SPRING	1	PC	
T8-C181M5-FCYZ	ASS'Y - FRONT CABINET "ART"	1	PC	
55-C181FC-0CN	25181FRONTCABINET	1	PC	
55-C181MC-1CN	25181MIDDLECABINET	1	PC	
56-396460-0HA	DECORATIVE LENS	1	PC	
56-C276LS-2HC	LENS	1	PC	
56-D181FB-0HA	PUSH BUTTON	1	PC	
56-D181LS-0HC	LENS	1	PC	
56-D181PK-0HA	POWER KNOB	1	PC	
T8-C181M5-MA1SM	ASS'Y - SKD PARTS	1	PC	
T8-000M68-SCY	ASS'Y - SCART BD	1	PC	
40-002959-SCE1XG	P.C.B. SCART BD	1	PC	
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	PC	R942
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J941
47-SCA002-XX0G	SCART SOCKET - 21 PINS (VERTIC	1	PC	P909
63-F30100-BT3G	S/T SCREW F 3 X 10 BT	2	PC	MTG SCART & SCART BKT
63-W30100-AB4G	S/T SCREW W 3 X 10 AB	4	PC	FOR SCART BD & SCART BKT
63-W30140-HS4G	S/T SCREW W 3 X 14 HS	2	PC	MTG SCART BKT & M. BD BKT
T8-000M68-SCYZ	ASS'Y - SCART BD 'ART'	1	PC	
62-368760-0HN	REAR AV BRACKET	1	PC	
46-CD015F-07001G	7P UL2468#24 150MM	1	PC	P910 FOR SM. BD P920(反插)
T8-B276M5-SIY	ASS'Y - SIDE AV BD	1	EA	
40-2513MT-SIF1XG	P.C.B. SIDE AV BD	1	PC	
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J984
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J986
46-39136H-07XG	7P 2468#24/1185#26 550 TJC3-7Y	1	PC	P003D FOR SM. BD P200
47-SVI001-XX0	SOCKET	1	PC	P951
47-RCA178-XX0G	RCA SOCKET AV-3.2-3LK15	1	PC	P941
T8-C181M5-KEY	ASS'Y - KEY BD	1	PC	

02-IRR001-XX1	IR RECEIVER MODULE HRM380017	1	PC	IR001
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R090
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	1	PC	R082
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	PC	R083
18-CB0391-JNX	RES. C.F. 390 OHM 1/6W +/-5%	1	PC	R084
18-CB0470-JNX	RES. C.F. 47 OHM 1/6W +/-5%	1	PC	R089
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	PC	R085
18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%	1	PC	R086
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	PC	C080
40-25181T-KEA1XG	P.C.B. KEY BD	1	PC	
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	PC	J083
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	PC	FOR Q081(E) TO Q082(B)
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J085
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J082
46-31788H-02XG	HS 2P22 350 TJC3-2Y/SCN-2Y	1	PC	P005A FOR PWR SW. BD S001
46-39131H-05XG	HS 5P 2468#24 600 TJC3-5Y/JC25	1	PC	P005 FOR SM. BD P001
48-TAC001-XX0	TACT SWITCH	1	PC	TV/AV
48-TAC001-XX0	TACT SWITCH	1	PC	MENU
48-TAC001-XX0	TACT SWITCH	1	PC	VOL-
48-TAC001-XX0	TACT SWITCH	1	PC	VOL+
48-TAC001-XX0	TACT SWITCH	1	PC	CH-
48-TAC001-XX0	TACT SWITCH	1	PC	CH+
T8-C181M5-LS1HM	ASS'Y - SKD FOR SACN BD	1	PC	
T8-025M68-LSY	ASS'Y - SCAN BD	1	PC	
10-0BY228-FOX	DIODE BY228	1	PC	D401
10-0FR104-FBX	DIODE FR104 (FAST RECTIFIER)	1	PC	D400
10-0FR104-FBX	DIODE FR104 (FAST RECTIFIER)	1	PC	D402
10-0FR104-FBX	DIODE FR104 (FAST RECTIFIER)	1	PC	D404
10-0FR104-FBX	DIODE FR104 (FAST RECTIFIER)	1	PC	D405
10-1N4001-EBX	DIODE 1N4001 (RECTIFIER)	1	PC	D411
10-1N4001-EBX	DIODE 1N4001 (RECTIFIER)	1	PC	D410
10-1N4001-EBX	DIODE 1N4001 (RECTIFIER)	1	PC	D309
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D600
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D307
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D308
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D300
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D305
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D606
10-79C2V4-DBX	DIODE ZENER 2V4 1/2W 5%	1	PC	D304
10-79C3V9-DBX	DIODE ZENER 3V9 1/2W 5%	1	PC	D306
10-79C5V1-DBX	DIODE ZENER 5V1 1/2W 5%	1	PC	D303
10-79C5V6-DBX	DIODE ZENER 5V6 1/2W 5%	1	PC	D408
11-0BC639-OBX	TRANSISTOR BC639	1	PC	Q402
11-630MFP-OAX	TRANSISTOR IRF630MFP	1	PC	Q407
11-SA1015-YBX	TRANSISTOR ST2SA1015Y (PNP)	1	PC	Q600

11-SC1815-YBX	TRANSISTOR 2SC1815-Y (NPN)	1	PC	Q602
11-SC1815-YBX	TRANSISTOR 2SC1815-Y (NPN)	1	PC	Q603
11-SC1815-YBX	TRANSISTOR 2SC1815-Y (NPN)	1	PC	Q401
13-DA7266-SAS	IC TDA7266SA	1	PC	IC600
13-STV817-2AS	IC STV8172A	1	PC	IC300
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R314
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R316
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R429
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	PC	R603
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	PC	R604
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	PC	R605
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	PC	R615
18-CB0122-JNX	RES. C.F. 1.2K OHM 1/6W +/-5%	1	PC	R300
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	PC	R350
18-CB0302-JNX	RES. C.F. 3K OHM 1/6W +/-5%	1	PC	R606
18-CB0302-JNX	RES. C.F. 3K OHM 1/6W +/-5%	1	PC	R600
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	PC	R607
18-CB0563-JNX	RES. C.F. 56K OHM 1/6W +/-5%	1	PC	R602
18-CB0683-JNX	RES. C.F. 68K OHM 1/6W +/-5%	1	PC	R418
18-CD0222-JNX	RES. C.F. 2.2K OHM 1/4W +/-5%	1	PC	R315
18-EF0109-JGX	RES. FUS. 1 OHM 1W +/-5% (LS)	1	PC	R426
18-EF0109-JGX	RES. FUS. 1 OHM 1W +/-5% (LS)	1	PC	R427
18-EG0478-JHX	RES. FUS. 0.47 OHM 2W +/-5%	1	PC	R423
18-EG0680-JHX	RES. FUSE 2W 68 OHM +/-5%	1	PC	R402
18-FE0472-JNX	RES. M.O. 4.7K OHM 1/2W +/-5%	1	PC	R425
18-FF0154-JGX	RES. M.O. 150K OHM 1W +/-5%	1	PC	R435
18-FG0399-JHX	RES. M.O. 3.9 OHM 2W +/-5%	1	PC	R420
18-FG0681-JHX	RES. M.O. 680 OHM 2W +/-5%	1	PC	R401
18-RG0228-JHX	RES. WIRE ROUND 0.22 OHM 2W +/-	1	PC	R601
25-264610-M1X	CAP. ELEC 4.7UF 50V +/-20% NP	1	PC	C412
25-BCA102-M1X	CAP. ELEC 1000 UF 16V +/-20%	1	PC	C403A
25-BDA471-M1X	CAP. ELEC 470 UF 25V +/-20%	1	PC	C623
25-BDB101-M1X	CAP. ELEC 100 UF 25V +/-20%	1	PC	C324
25-BDB101-M1X	CAP. ELEC 100 UF 25V +/-20%	1	PC	C605
25-BDB221-M1X	CAP. ELEC 220UF 25V +/-20%	1	PC	C308
25-BDB470-M1X	CAP. ELEC 47 UF 25V +/-20%	1	PC	C307
25-BEA102-M1X	CAP. ELEC 1000 UF 35V +/-20%	1	PC	C415
25-BEA102-M1X	CAP. ELEC 1000 UF 35V +/-20%	1	PC	C416
25-BEB101-M1X	CAP. ELEC 100 UF 35V +/-20%	1	PC	C323
25-BEB101-M1X	CAP. ELEC 100 UF 35V +/-20%	1	PC	C360
25-BFB101-M1X	CAP. ELEC 100 UF 50V +/-20%	1	PC	C300
25-BFB479-M1X	CAP. ELEC 4.7 UF 50V +/-20%	1	PC	C607
25-BFB479-M1X	CAP. ELEC 4.7 UF 50V +/-20%	1	PC	C313
25-BLA220-M1X	CAP. ELEC 22 UF 250V +/-20%	1	PC	C400
26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	1	PC	C401
26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	1	PC	C418
26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	1	PC	C419

26-EBP102-KBS	CAP. CER 1000 PF 50V +/-20%	1	PC	C337
26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F	1	PC	C407
26-EBP104-ZFS	CAP. CER 0.1UF 50V +80%/-20%	1	PC	C604
26-EBP152-KBS	CAP. CER 1500PF 50V +/-10%	1	PC	C350
26-EBP472-KBS	CAP. CER 4700PF 50V +/-10%	1	PC	C422
27-MBC222-J0X	CAP. M. P. E 0.0022UF 63V +/-5%	1	PC	C334
27-MBC224-J0X	CAP. M. P. E 0.22UF 63V +/-5%	1	PC	C602
27-MBC224-J0X	CAP. M. P. E 0.22UF 63V +/-5%	1	PC	C603
27-MBC334-J0X	CAP. M. P. E 0.33UF 63V +/-5%	1	PC	C325
27-MCC104-J0X	CPM 100NOF +5% 100.0V R=N	1	PC	C421
27-PBC102-J0X	CAP. P. E 0.001UF 63V +/-5%	1	PC	C606
27-PBC102-J0X	CAP. P. E 0.001UF 63V +/-5%	1	PC	C600
34-A109K0-1IX	COIL CHOKE 1 UH +/-10%	1	PC	L401
36-WID472-XX1	COIL WIDTH 4.7MH TD1016A4701	1	PC	L404
40-3290E5-LSF1XG	P. C. B LS BD	1	PC	
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J406
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J307
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J612
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J404
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J602
41-WJ0070-B00	WIRE BARE JUMPER 7MM	1	PC	JP401
41-WJ0070-B00	WIRE BARE JUMPER 7MM	1	PC	J608
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J605
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J308
41-WJ0080-B00	WIRE BARE JUMPER 8 MM	1	PC	J305
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J312
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J311
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J303
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J310
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J309
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J302
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J403
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J408
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J604
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J405
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	L402
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J607
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J606
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J603
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J313
46-20598W-04XG	PIN BASE *4 TJC1-4A	1	PC	P411 FOR D. Y CONNECTOR
46-28242H-02XG	HS 2P24 F/W 120 TJC3-2Y/SCN-2Y	1	PC	S407 FOR SM. BD P407
46-33079W-04XG	PIN BASE *4 TJC3-4A	1	PC	P403 FOR CRT BD P502
46-37034H-06XG	HS 6P 2468#24 200 TJC3-6Y/SCN	1	PC	S406 FOR SM. BD P406
46-CD005T-04JG	HS 4P 2468#24 50MM TJC3-4Y/TJC	1	PC	S405 FOR SM. BD P405
46-CD005T-05JG	HS 5P 2468#24 50MM TJC3-4Y/TJC	1	PC	S603 FOR SM. BD P603

46-CD005T-06JG	HS 6P 2468#24 50MM TJC3-6Y/TJC	1	PC	S810 FOR SM. BD P810
57-10654X-00F	TWIST TIE NY66	3	PC	
62-227680-0UA	BRACKET ABS-KINGFA 606 (UO)	1	PC	
63-B30100-AB3G	S/T SCREW B 3 X 10 AB	1	PC	FOR Q407
63-B30100-AB4G	S/T SCREW B 3 X 10 AB	2	PC	FOR IC600
64-P30080-104G	M/C SCREW P 3 X 8	1	PC	FOR Q405
64-P30080-104G	M/C SCREW P 3 X 8	1	PC	FOR IC300
65-Z30050-23MG	NUT M 3	1	PC	FOR IC300
65-Z30050-23MG	NUT M 3	1	PC	FOR Q405
66-343730-0B0	HOLLOW RIVET 1.6MMX3.0MMX3.2MM	1	PC	FOR Q405
66-343730-0B0	HOLLOW RIVET 1.6MMX3.0MMX3.2MM	4	PC	FOR T402
66-343730-0B0	HOLLOW RIVET 1.6MMX3.0MMX3.2MM	4	PC	FOR L400, L403
67-H30147-0A0	HEAT SINK	1	PC	FOR Q405
67-H30179-7A0	HEAT SINK	1	PC	FOR IC300
67-H40067-2A0	STANDARD HEAT SINK	1	PC	FOR Q407
67-M40068-1E4	CRT BRACKET	1	PC	FOR Q407
67-M41117-0E4	BRACKET	1	PC	FOR IC600
T8-025M68-PWY	ASS'Y - POWER PARTS	1	PC	
10-0001H8-FBX	DIODE 1H8 (FAST RECOVERY)	1	PC	D810
10-ORU3YX-FBX	DIODE RU3YX	1	PC	D825
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D821
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D811
10-D3SB60-H7X	DIODE SHD-D3SB60-7109	1	PC	DB801
10-HS9V1C-DBX	DIODE 9V1 500MW	1	PC	D828
10-MUR460-FOX	DIODE MUR460 (FAST RECOVERY)	1	PC	D805
11-SK3451-OCX	TRANSISTOR 2SK3451-01MR	1	PC	Q805
13-000TL4-31T	IC TL431ACLP	1	PC	IC803
13-DA1684-62P	IC TDA16846-2 (Q67040-S4494)	1	PC	IC801
13-PC123X-9YP	PHOTOCOUPLER PC123X9YFZ	1	PC	IC800
18-CB0100-JNX	RES. C.F. 10 OHM 1/6W +/-5%	1	PC	R814
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	PC	R802
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R801
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R840
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R823
18-CB0113-JNX	RES. C.F. 11K OHM 1/6W +/-5%	1	PC	R819
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	1	PC	R822
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	PC	R834
18-CB0333-JNX	RES. C.F. 33K OHM 1/6W +/-5%	1	PC	R825
18-CB0333-JNX	RES. C.F. 33K OHM 1/6W +/-5%	1	PC	R838
18-CB0563-JNX	RES. C.F. 56K OHM 1/6W +/-5%	1	PC	R818
18-CB0822-JNX	RES. C.F. 8.2K OHM 1/6W +/-5%	1	PC	R830
18-CD0470-JNX	RES. C.F. 47 OHM 1/4W +/-5%	1	PC	R823A
18-CG0224-JHX	RES. C.F. 220K OHM 2W +/-5%	1	PC	R816A
18-DB0183-FNX	RES. M.F. 18K OHM 1/6W +/-1%	1	PC	R824A
18-DE0104-FNX	RES. M.F. 100K OHM 1/2W +/-1%	1	PC	R800
18-FG0223-JHX	RES. M.O. 22K OHM 2W +/-5%	1	PC	R817
18-FG0333-JHX	RES. M.O. 33K OHM 2W +/-5%	1	PC	R816

18-FH0223-JLX	RES. M. O. 22K OHM 3W +/-5%	1	PC	R877
18-KE0105-JN3	RES. H. VOLT. CC 1M OHM 1/2W +/-	1	PC	R813
18-KE0105-JNX	RES. GLASS GLAZE 1M OHM 1/2W +	1	PC	R833
18-KE0475-JNX	RES. GLASS GLAZE 4.7M OHM 1/2W	1	PC	R811
18-KF0825-JH3	RES. H. VOLT. CC 8.2M OHM 1W +/-	1	PC	R882
22-NTC479-XX0	NTC 4.7 OHM +/-18% NTC4.7D2-14	1	PC	R821
25-NCA222-M1X	CAP. ELEC 2200UF 16V +/-20%	1	PC	C846
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	PC	C845
25-BDB100-M1X	CAP. ELEC 10 UF 25V +/-20%	1	PC	C880
25-BDB101-M1X	CAP. ELEC 100 UF 25V +/-20%	1	PC	C826
25-BJG221-M1X	CAP. ELEC 220 UF 160V +/-20%	1	PC	C814
25-BJG221-M1X	CAP. ELEC 220 UF 160V +/-20%	1	PC	C806
26-ABC102-KBX	CAP. CER 1000 PF 50V +/-10% B	1	PC	C848
26-ABC104-ZFX	CAP. CER 0.1 UF 50V +80-20% F	1	PC	C837
26-ABC104-ZFX	CAP. CER 0.1 UF 50V +80-20% F	1	PC	C842
26-ABC104-ZFX	CAP. CER 0.1 UF 50V +80-20% F	1	PC	C847
26-ABC821-JZX	CAP. CER 820 PF 50V +/-5% SL	1	PC	C854
26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	1	PC	C849
26-AIL103-KBX	CAP. CER 10NF 500V +/-10%	1	PC	C824
26-AIL103-KBX	CAP. CER 10NF 500V +/-10%	1	PC	C818
26-AMM182-KRX	CAP. CER 1800PF 2KV +/-10% R	1	PC	C836
26-AMM221-JZX	CAP. CER 220PF 2KV +/-5% SL	1	PC	C827
26-AMM221-JZX	CAP. CER 220PF 2KV +/-5% SL	1	PC	C820
26-APK471-KB4	CAP. CER 470 PF 400VAC +/-10%	1	PC	C828A
26-APK471-KB4	CAP. CER 470 PF 400VAC +/-10%	1	PC	C835A
26-AQK472-ZFX	CAP. CER 4700PF 250VAC +80%-20	1	PC	C828
26-AQK472-ZFX	CAP. CER 4700PF 250VAC +80%-20	1	PC	C835
26-EBP102-KBS	CAP. CER 1000 PF 50V +/-20%	1	PC	C838
26-EBP102-KBS	CAP. CER 1000 PF 50V +/-20%	1	PC	C843
26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F	1	PC	C856
26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F	1	PC	C857
26-EBP104-ZFS	CAP. CER 0.1UF 50V +80%/-20%	1	PC	C830
26-EBP221-JCS	CAP. CER 220 PF 50V +/-5%	1	PC	C855
26-EBP222-KBS	CAP. CER 2.2 NF 50V +/-10%	1	PC	C833
26-EBP331-JCS	CAP. CER 330PF 50V +/-5%	1	PC	C858
27-AQQ683-KOX	CAP. M. PP 0.068 UF 250VAC +/-1	1	PC	C825
27-AQT224-MV3	CAP. M. PP 0.22UF 250VAV +/-20%	1	PC	C822
27-MHM104-KOX	CAP. M. P. E 0.1 UF 400V +/-10%	1	PC	C823
34-R101K2-1BX	COIL CHOKE 100 UH +/-10%	1	PC	L804
34-R101K2-1BX	COIL CHOKE 100 UH +/-10%	1	PC	L800
35-237250-00X	FERR. BEAD HF70 4.5X5.0	2	PC	FOR D805
35-237250-00X	FERR. BEAD HF70 4.5X5.0	2	PC	FOR D825
35-LB1005-OIX	FERR BEAD H75 (3.5X1X5)	1	PC	L802
36-LIF002-AX0	LINE FILTER 20MH	1	PC	T800
36-TRF164-AX0	TRANSFORMER CONV. BCK-4925	1	PC	T801
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J812
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J813

41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J811
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J823
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	D829
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J804
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J803
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J829
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J822
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J820
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J821
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	D824
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	JP803
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J809
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J818
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J810
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J808
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J815
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J814
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	PC	J816
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	PC	J805
46-10962W-02XG	PIN BASE *2 TJC2-2A	1	PC	P803 FOR DEGAUSSING COIL
46-28559W-02XG	PIN BASE *2 TJC1-2A	1	PC	P802
50-03000D-NUUG	FUSE 3A 250VAC	1	PC	R883
64-P30080-104G	M/C SCREW P 3 X 8	1	PC	FOR Q805
66-20516X-0B0	FUSE HOLDER	2	PC	FOR F800
66-343730-0B0	HOLLOW RIVET 1.6MMX3.0MMX3.2MM	2	PC	FOR L800
66-343730-0B0	HOLLOW RIVET 1.6MMX3.0MMX3.2MM	1	PC	FOR Q805
66-343730-0B0	HOLLOW RIVET 1.6MMX3.0MMX3.2MM	4	PC	FOR T801
66-343730-0B0	HOLLOW RIVET 1.6MMX3.0MMX3.2MM	2	PC	FOR DB801
66-343730-0B0	HOLLOW RIVET 1.6MMX3.0MMX3.2MM	3	PC	FOR RT800
66-343740-0B0	HOLLOW RIVET (2.3MMX4.0MMX3.5MM)	4	PC	FOR D805, C829
67-H38012-BA0	HEAT SINK	1	PC	FOR Q805
71-DYP000-WX1	LABEL	1	PC	STICK ON Q805 (H. SINK)
T8-025M68-XRY	ASS'Y - X-RAY PARTS	1	PC	
10-0FR104-FBX	DIODE FR104 (FAST RECTIFIER)	1	PC	D406
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D281
10-79C24V-DBX	DIODE ZENER 24V 1/2W 5%	1	PC	D280
11-SA1015-YBX	TRANSISTOR ST2SA1015Y (PNP)	1	PC	Q280
11-SC1815-YBX	TRANSISTOR 2SC1815-Y (NPN)	1	PC	Q281
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	PC	R283
18-CB0104-JNX	RES. C.F. 100K OHM 1/6W +/-5%	1	PC	R284
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	PC	R281
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	PC	R285
18-EE0109-JNX	RES. FUS. 1 OHM 1/2W +/-5%	1	PC	R450
25-BFB479-M1X	CAP. ELEC 4.7 UF 50V +/-20%	1	PC	C417
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J401

41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	R282
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D282
T8-C181M5-OTLS1	ASS'Y - PARTS LS. BD 'AC110~'	1	PC	
10-ORU4YX-FOX	DIODE GRU4YX (FAST RECOVERY)	1	PC	D806
11-DD1556-OAX	TRANSISTOR 3DD1556	1	PC	Q405
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R600A
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R606A
18-CB0392-JNX	RES. C.F. 3.9K OHM 1/6W +/-5%	1	PC	R424
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	PC	R614
18-DB0222-FNX	RES. M.F 2.2K OHM 1/6W +/-1%	1	PC	R824
18-RF0109-JGX	RES. WIRE ROUND 1 OHM 1W +/-5%	1	PC	R313
18-RG0228-JHX	RES. WIRE ROUND 0.22 OHM 2W +/-	1	PC	J817
22-PTC909-3A5	PTC 9 OHM	1	PC	RT800
22-VDR471-XX0	VARISTOR RESISTANCE MYG-14K300	1	PC	VR803
25-BFB228-M1X	CAP. ELEC 0.22 UF 50V +/-20%	1	PC	C601
25-BFB228-M1X	CAP. ELEC 0.22 UF 50V +/-20%	1	PC	C606A
25-BMJ391-M1X	CAP. ELEC 390 UF 400V +/-20%	1	PC	C829
25-GDA102-M1X	CAP ELEC 1000UF 25V +/-20% 105	1	PC	C815
26-ABC104-ZFX	CAP. CER 0.1 UF 50V +80-20% F	1	PC	C817
26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	1	PC	C821
26-AIC472-KBX	CAP. CER 4700 PF 500V +/-10% B	1	PC	C420
26-APK222-ME4	CAP. CER 2200PF 400VAC +/-20% E	1	PC	C882
26-EBP222-KBS	CAP. CER 2.2 NF 50V +/-10%	1	PC	C351
27-MCC104-J0X	CPM 100N0F +5% 100.0V R=N	1	PC	C342
35-237250-00X	FERR. BEAD HF70 4.5X5.0	2	PC	FOR D806
36-LIF001-AX0	LINE FILTER	1	PC	T802
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J301
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	R824B
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J402
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	R323
46-12866W-02XG	PIN BASE *2 S11-02Y	1	PC	P601 FOR FRONT CAB. (SPK)
46-33079W-02XG	PIN BASE *2 TJC3-2A	1	PC	P600 FOR FRONT CAB. (SPK)
50-05000D-1GSG	FUSE 5A 250VAC 5MMX20MM	1	PC	F800
50-05000D-NUUG	FUSE 5A 250VAC	1	PC	R884
62-410390-0UN	SCART BRACKET	1	PC	
63-W30100-AB4G	S/T SCREW W 3 X 10 AB	4	PC	MTG SCAN BD & M. BD BKT
66-343740-0B0	HOLLOW RIVET (2.3MMX4.0MMX3.5M	2	PC	FOR D806
67-H41341-3A0	HEAT SINK	1	PC	FOR IC600
70-271510-00A	SERVICE CARD	1	PC	FOR PRODUCTION USE
71-270870-0A9	LABEL	2	PC	
90-0DSTG1-SR1U	HEAT SINK DSTG-1	1.5	G	FOR Q405, IC300, IC600, Q407, Q805
90-269080-ZU0U	CLEAN COATING TC-131L 14KG/BAR	0.1	G	

T8-C181M5-SM1HM	ASS'Y - SKD FOR SM. BD	1	PC	
T8-025M68-CRY	ASS'Y - CRT BD	1	PC	
10-1N4004-EBX	DIODE 1N4004 (RECTIFIER)	1	PC	D540
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D531
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D521
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D511
11-0BF422-OBX	TRANSISTOR BF422 (NPN) 126	1	PC	Q512
11-0BF422-OBX	TRANSISTOR BF422 (NPN) 126	1	PC	Q522
11-0BF422-OBX	TRANSISTOR BF422 (NPN) 126	1	PC	Q532
11-0BF423-OBX	TRANSISTOR BF423 (PNP) 126	1	PC	Q513
11-0BF423-OBX	TRANSISTOR BF423 (PNP) 126	1	PC	Q523
11-0BF423-OBX	TRANSISTOR BF423 (PNP) 126	1	PC	Q533
11-SC4544-OAX	TRANSISTOR 2SC4544	1	PC	Q511
11-SC4544-OAX	TRANSISTOR 2SC4544	1	PC	Q521
11-SC4544-OAX	TRANSISTOR 2SC4544	1	PC	Q531
18-BE0152-KFX	RES C.C. 1.5K OHM 1/2W +/-10%	1	PC	R541
18-CD0102-JNX	RES. C.F. 1K OHM 1/4W +/-5%	1	PC	R501
18-CD0225-JNX	RES. C.F. 2.2M OHM 1/4W +/-5%	1	PC	R540
18-CD0470-JNX	RES. C.F. 47 OHM 1/4W +/-5%	1	PC	R502
18-CD0471-JNX	RES. C.F. 470 OHM 1/4W +/-5%	1	PC	R536
18-CD0471-JNX	RES. C.F. 470 OHM 1/4W +/-5%	1	PC	R538
18-CD0471-JNX	RES. C.F. 470 OHM 1/4W +/-5%	1	PC	R526
18-CD0471-JNX	RES. C.F. 470 OHM 1/4W +/-5%	1	PC	R528
18-CD0471-JNX	RES. C.F. 470 OHM 1/4W +/-5%	1	PC	R518
18-CD0471-JNX	RES. C.F. 470 OHM 1/4W +/-5%	1	PC	R516
18-FE0102-JNX	RES. M.O. 1K OHM 1/2W +/-5%	1	PC	R519
18-FE0102-JNX	RES. M.O. 1K OHM 1/2W +/-5%	1	PC	R529
18-FE0102-JNX	RES. M.O. 1K OHM 1/2W +/-5%	1	PC	R539
18-FF0330-JGX	RES. M.O. 33 OHM 1W +/-5%	1	PC	R505
18-FG0153-JHX	RES. M.O. 15K OHM 2W +/-5%	1	PC	R515
18-FG0153-JHX	RES. M.O. 15K OHM 2W +/-5%	1	PC	R525
18-FG0153-JHX	RES. M.O. 15K OHM 2W +/-5%	1	PC	R535
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	PC	R534
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	PC	R524
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	PC	R514
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	1	PC	R512
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	1	PC	R522
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	1	PC	R532
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	PC	R513
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	PC	R523
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	PC	R533
19-BB0470-JTX	SMD. RES 47 OHM 1/10W +/-5%	1	PC	R511
19-BB0470-JTX	SMD. RES 47 OHM 1/10W +/-5%	1	PC	R531
19-BB0470-JTX	SMD. RES 47 OHM 1/10W +/-5%	1	PC	R521
19-BB0561-JTX	SMD. RES 560 OHM 1/10W +/-5%	1	PC	R537
19-BB0561-JTX	SMD. RES 560 OHM 1/10W +/-5%	1	PC	R527
19-BB0561-JTX	SMD. RES 560 OHM 1/10W +/-5%	1	PC	R517

25-BLA100-M1X	CAP. ELEC 10 UF 250V +/-20%	1	PC	C540
25-BLA220-M1X	CAP. ELEC 22 UF 250V +/-20%	1	PC	C503
26-AMM102-KRX	CAP. CER 1000 PF 2KV +/-10% R	1	PC	C505
27-AGP223-J0X	CAP. M. PP 0.022UF 250V +/-5%	1	PC	C504
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	PC	C521
28-BB0331-JCX	SMD. CAP 330 PF 50V C 0805	1	PC	C511
28-BB0331-JCX	SMD. CAP 330 PF 50V C 0805	1	PC	C531
28-BL0102-KBX	SMD. CAP 1000PF 250V +/-10%	1	PC	C512
28-BL0102-KBX	SMD. CAP 1000PF 250V +/-10%	1	PC	C522
28-BL0102-KBX	SMD. CAP 1000PF 250V +/-10%	1	PC	C532
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	PC	J504
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	PC	J501
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J503
46-10967W-01XG	PIN BASE *1 TJC1-1A	1	PC	P504
46-30615H-04XG	HS 4P24 460 F/W TJC3-4Y/SCN-4	1	PC	P502 FOR SCAN BD P403
46-37033H-05XG	HS 5P 2468#24 320 TJC3-5Y/SCN	1	PC	P503 P1 - P5 FOR SM. BD P202
T8-025M68-SMY	ASS'Y - SM. BD	1	PC	
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D001
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D005
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D006
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D007
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D100
10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	1	PC	D008
10-79C2V4-DBX	DIODE ZENER 2V4 1/2W 5%	1	PC	D004
10-79C33V-DBX	DIODE ZENER 33V 1/2W 5%	1	PC	D102
10-79C3V9-DBX	DIODE ZENER 3V9 1/2W 5%	1	PC	D003
10-79C5V1-DBX	DIODE ZENER 5V1 1/2W 5%	1	PC	D080
10-79C5V6-DBX	DIODE ZENER 5V6 1/2W 5%	1	PC	D907
10-79C5V6-DBX	DIODE ZENER 5V6 1/2W 5%	1	PC	D002
10-79C5V6-DBX	DIODE ZENER 5V6 1/2W 5%	1	PC	D906
10-79C5V6-DBX	DIODE ZENER 5V6 1/2W 5%	1	PC	D901
10-79C5V6-DBX	DIODE ZENER 5V6 1/2W 5%	1	PC	D204
11-0BC327-CBX	TRANSISTOR BC327-40	1	PC	Q202
11-0BC327-CBX	TRANSISTOR BC327-40	1	PC	Q201
11-2SD882-OAX	TRANSISTOR 2SD882-P (NPN)	1	PC	Q001
11-2SD882-OAX	TRANSISTOR 2SD882-P (NPN)	1	PC	Q080
11-SA1015-YBX	TRANSISTOR ST2SA1015Y (PNP)	1	PC	Q204
11-SC1815-YBX	TRANSISTOR 2SC1815-Y (NPN)	1	PC	Q002
11-SC3779-DBX	TRANSISTOR 2SC3779D (RF AMPL)	1	PC	Q101
12-BC847A-OBX	SMD TRANSISTOR BC847A (NPN)	1	PC	Q082
12-BC847A-OBX	SMD TRANSISTOR BC847A (NPN)	1	PC	Q081
12-BC847A-OBX	SMD TRANSISTOR BC847A (NPN)	1	PC	Q900
12-BC847A-OBX	SMD TRANSISTOR BC847A (NPN)	1	PC	Q287
12-BC847A-OBX	SMD TRANSISTOR BC847A (NPN)	1	PC	Q200
12-BC857A-OBX	SMD TRANSISTOR BC857A (PNP)	1	PC	Q901

12-BC857A-0BX	SMD TRANSISTOR BC857A (PNP)	1	PC	Q205
12-BC857A-0BX	SMD TRANSISTOR BC857A (PNP)	1	PC	Q206
12-BC857A-0BX	SMD TRANSISTOR BC857A (PNP)	1	PC	Q207
12-BSH103-0BX	MOS TRANSISTOR BSH103	1	PC	Q288
12-BSH103-0BX	MOS TRANSISTOR BSH103	1	PC	Q289
13-00M24C-32P	IC EEPROM 32K(PDIP8) M24C32 (	1	PC	IC001
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	PC	R036
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	PC	R209
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	PC	R208
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	PC	R207
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	PC	R026
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	PC	R025
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R202
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R203
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R215
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	PC	R030
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R233
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R234
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	PC	R236
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	PC	R033
18-CB0330-JNX	RES. C.F. 33 OHM 1/6W +/-5%	1	PC	L201
18-CB0391-JNX	RES. C.F. 390 OHM 1/6W +/-5%	1	PC	R012
18-CB0393-JNX	RES. C.F. 39K OHM 1/6W +/-5%	1	PC	R206
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	PC	R110
18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%	1	PC	R205
18-CB0750-JNX	RES. C.F. 75 OHM 1/6W +/-5%	1	PC	R910
18-CB0751-JNX	RES. C.F. 750 OHM 1/6W +/-5%	1	PC	R014
18-CE0561-JNX	RES. C.F. 560 OHM 1/2W +/-5%	1	PC	R080A
18-FF0109-JGX	RES. M.O. 1 OHM 1W +/-5%	1	PC	R213
18-FF0109-JGX	RES. M.O. 1 OHM 1W +/-5%	1	PC	R213A
18-FG0100-JHX	RES. M.O. 10 OHM 2W +/-5%	1	PC	R013
18-FG0100-JHX	RES. M.O. 10 OHM 2W +/-5%	1	PC	R059
18-FG0470-JHX	RES. M.O. 47 OHM 2W +/-5%	1	PC	R015
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	J231
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	JP202
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	JP201
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	J230
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	J214A
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	R030A
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	J258
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	L221
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	L225
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	J080
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	J212
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	J213
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	J214
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R034

19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R222	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R230	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R031	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R011	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R009	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R024	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R932	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R929	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R919	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R232	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R231	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	PC	R010	
19-BB0102-JTX	SMD. RES 1K OHM 1/10W +/-5%	1	PC	R908A	
19-BB0102-JTX	SMD. RES 1K OHM 1/10W +/-5%	1	PC	R908	
19-BB0102-JTX	SMD. RES 1K OHM 1/10W +/-5%	1	PC	R039	
19-BB0822-JTX	SMD. RES 8.2K OHM 1/10W +/-5%	1	PC	R915	
19-BB0822-JTX	SMD. RES 8.2K OHM 1/10W +/-5%	1	PC	R916	
19-BB0822-JTX	SMD. RES 8.2K OHM 1/10W +/-5%	1	PC	R962	
19-BB0822-JTX	SMD. RES 8.2K OHM 1/10W +/-5%	1	PC	R963	
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	1	PC	R081	
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	1	PC	R101	
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	1	PC	R221	
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	1	PC	R018	
19-BB0104-JTX	SMD. RES 100K OHM 1/10W +/-5%	1	PC	R903	
19-BB0104-JTX	SMD. RES 100K OHM 1/10W +/-5%	1	PC	R902	
19-BB0123-JTX	SMD. RES 12K OHM 1/10W +/-5%	1	PC	R210	
19-BB0151-JTX	RES. SMD 150 OHM 1/10W +/-5%	1	PC	R117	
19-BB0151-JTX	RES. SMD 150 OHM 1/10W +/-5%	1	PC	R115	
19-BB0153-JTX	SMD. RES 15K OHM 1/10W +/-5%	1	PC	R040	
19-BB0154-JTX	SMD. RES 150K OHM 1/10W +/-5%	1	PC	R281	
19-BB0183-JTX	SMD. RES 18K OHM 1/10W +/-5%	1	PC	R271	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	PC	R118	
19-BB0222-JTX	SMD. RES 2.2K OHM 1/10W +/-5%	1	PC	R224	
19-BB0331-JTX	SMD. RES 330 OHM 1/10W +/-5%	0	1	PC	R904
19-BB0331-JTX	SMD. RES 330 OHM 1/10W +/-5%	0	1	PC	R905
19-BB0332-JTX	SMD. RES 3.3K OHM 1/10W +/-5%	1	PC	R027	
19-BB0332-JTX	SMD. RES 3.3K OHM 1/10W +/-5%	1	PC	R029	
19-BB0332-JTX	SMD. RES 3.3K OHM 1/10W +/-5%	1	PC	R261	
19-BB0333-JTX	SMD. RES 33K OHM 1/10W +/-5%	1	PC	R270	
19-BB0333-JTX	SMD. RES 33K OHM 1/10W +/-5%	1	PC	R212	
19-BB0333-JTX	SMD. RES 33K OHM 1/10W +/-5%	1	PC	R213B	
19-BB0390-JTX	SMD. RES 39 OHM 1/10W +/-5%	0	1	PC	R104
19-BB0390-JTX	SMD. RES 39 OHM 1/10W +/-5%	0	1	PC	R109
19-BB0391-JTX	RES. SMD 390 OHM 1/10W +/-5%	1	PC	R214	
19-BB0393-JTX	SMD. RES 39K OHM 1/10W +/-5%	1	PC	R103	
19-BB0472-JTX	SMD. RES 4.7K OHM 1/10W +/-5%	1	PC	R225	
19-BB0472-JTX	SMD. RES 4.7K OHM 1/10W +/-5%	1	PC	R229	

19-BB0473-JTX	SMD. RES 47K OHM 1/10W +/-5% 0	1	PC	R913
19-BB0473-JTX	SMD. RES 47K OHM 1/10W +/-5% 0	1	PC	R914
19-BB0473-JTX	SMD. RES 47K OHM 1/10W +/-5% 0	1	PC	R960
19-BB0473-JTX	SMD. RES 47K OHM 1/10W +/-5% 0	1	PC	R961
19-BB0473-JTX	SMD. RES 47K OHM 1/10W +/-5% 0	1	PC	R049
19-BB0510-JTX	RES. SMD 51 OHM 1/10W +/-5% 080	1	PC	R114
19-BB0512-JTX	SMD. RES 5.1K OHM 1/10W +/-5%	1	PC	R082
19-BB0681-JTX	SMD. RES 680 OHM 1/10W +/-5%	1	PC	R116
19-BB0683-JTX	SMD. RES 68K OHM 1/10W +/-5%	1	PC	R100
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	PC	R917
19-BB0820-JTX	RES. SMD 82 OHM 1/10W +/-5%	1	PC	R925
19-BB0820-JTX	RES. SMD 82 OHM 1/10W +/-5%	1	PC	R924
25-BBB101-M1X	CAP. ELEC 100 UF 10V +/-20%	1	PC	C103
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C250
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C241
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C904
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C225
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C227
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C905
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C219
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C208
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C200
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	PC	C019
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	PC	C013
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	PC	C223
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	PC	C006
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	PC	C010
25-BCB330-M1X	CAP. ELEC 33 UF 16V +/-20%	1	PC	C253
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	PC	C262
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	PC	C024
25-BDB470-M1X	CAP. ELEC 47 UF 25V +/-20%	1	PC	C258A
25-BFB100-M1X	CAP. ELEC 10 UF 50V +/-20%	1	PC	C100
25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	1	PC	C231
25-BFB109-M1X	CAP. ELEC 1 UF 50V +/-20%	1	PC	C234
25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	1	PC	C918
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	PC	C203
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	PC	C234A
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	PC	C236
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	PC	C237
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	PC	C917
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	PC	C919
25-BFB470-M1X	CAP. ELEC 47 UF 50V +/-20%	1	PC	C105
25-MFB229-K1X	CAP. ELEC 2.2UF 50V +/-10%	1	PC	C215
26-EBP104-ZFS	CAP. CER 0.1UF 50V +80%/-20%	1	PC	C017
27-MBC154-J0X	CAP. M. P. E. 0.15UF 63V +/-5%	1	PC	C206
27-MBC224-J0X	CAP. M. P. E 0.22UF 63V +/-5%	1	PC	C028
27-MBC224-J0X	CAP. M. P. E 0.22UF 63V +/-5%	1	PC	C022

28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C915
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C914
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C912
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C903
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C902
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C101A
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C101
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C925
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C929
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C930
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C960
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C961
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C941
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C940
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	PC	C924
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	PC	C207
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	PC	C209
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	PC	C213
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C009
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C108
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C106
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C012
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C004
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C018
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C102
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C011
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C008
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C216
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C107
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C224
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C222
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C218
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C217
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C007
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C258
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C251
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C235
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C242
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C229
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C226
28-BB0222-KBX	SMD CAP 0.0022UF 50V +/-10%	1	PC	C252
28-BB0222-KBX	SMD CAP 0.0022UF 50V +/-10%	1	PC	C270
28-BB0223-KBX	SMD. CAP 0.022 UF 50V +/-10%	1	PC	C281
28-BB0223-ZFX	SMD CAP. 0.022 UF 50V F 0805	1	PC	C205
28-BB0223-ZFX	SMD CAP. 0.022 UF 50V F 0805	1	PC	C210
28-BB0223-ZFX	SMD CAP. 0.022 UF 50V F 0805	1	PC	C232
28-BB0223-ZFX	SMD CAP. 0.022 UF 50V F 0805	1	PC	C271

28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20%	1	PC	C261
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20%	1	PC	C260
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20%	1	PC	C256
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20%	1	PC	C255
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20%	1	PC	C211
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20%	1	PC	C201
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20%	1	PC	C023
28-BB0330-JCX	SMD. CAP 33 PF 50V C 0805	1	PC	C026
28-BB0330-JCX	SMD. CAP 33 PF 50V C 0805	1	PC	C027
28-BB0472-KBX	SMD CAP. 0.0047UF 50V B 0805	1	PC	C230
28-BB0682-KBX	SMD. CAP 6800 PF 50V +/-10%	1	PC	C214
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	L227
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	L228
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	L229
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	L230
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	L231
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	J219A
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	L232
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	L226
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	L224
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	L223
33-ELN601-NTX	BEAD CHIP HB-1T2012-601 2012	1	PC	L220
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	L222
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L204
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L210
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L209
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L208
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L207
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L205
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L206
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L203
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L200
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L101
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L004
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L003
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L002
34-A100K0-1IX	COIL CHOKE 10 UH +/-10%	1	PC	L001
34-A109K0-1IX	COIL CHOKE 1 UH +/-10%	1	PC	L102
34-A109K0-1IX	COIL CHOKE 1 UH +/-10%	1	PC	L202
34-A109K0-1IX	COIL CHOKE 1 UH +/-10%	1	PC	L211
40-00UOC3-MAG1XG	P. C. B MAIN BD	1	PC	
41-WJ0055-B00	WIRE BARE JUMPER 5.5 MM	1	PC	J902
41-WJ0055-B00	WIRE BARE JUMPER 5.5 MM	1	PC	J903
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J215
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J920
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J227
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J209

41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J111
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J221
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J107
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J109
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J255
41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	1	PC	J256
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J210
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J232
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J223
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	PC	J082
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J229
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J104
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J248
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J222
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J236
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J912A
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J113
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J217
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J112
41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	1	PC	J219
41-WJ0090-B00	WIRE BARE JUMPER 9MM	1	PC	J904
41-WJ0095-B00	WIRE BARE JUMPER 9.5MM	1	PC	J224
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J220
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J083
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J218
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J202
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J201
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J204
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J206
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J928
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J913
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J914
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	PC	J921
41-WJ0110-B00	WIRE BARE JUMPER 11MM	1	PC	J228
41-WJ0110-B00	WIRE BARE JUMPER 11MM	1	PC	J108
41-WJ0115-B00	WIRE BARE JUMPER 11.5MM	1	PC	J203
41-WJ0115-B00	WIRE BARE JUMPER 11.5MM	1	PC	J207
41-WJ0115-B00	WIRE BARE JUMPER 11.5MM	1	PC	J208
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J924
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J923
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J254
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J240
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	PC	J922
41-WJ0130-B00	WIRE BARE JUMPER 13MM	1	PC	J238
41-WJ0135-B00	WIRE BARE JUMPER 13.5MM	1	PC	J205
41-WJ0145-B00	WIRE BARE JUMPER 14.5MM	1	PC	J237
41-WJ0145-B00	WIRE BARE JUMPER 14.5MM	1	PC	J912

41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J250
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	PC	J226
41-WJ0155-B00	WIRE BARE JUMPER 15.5MM	1	PC	J906
41-WJ0160-B00	WIRE BARE JUMPER 16MM	1	PC	J247
41-WJ0165-B00	WIRE BARE JUMPER 16.5MM	1	PC	J910
41-WJ0170-B00	WIRE BARE JUMPER 17MM	1	PC	J211
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	PC	J105
41-WJ0185-B00	WIRE BARE JUMPER 18.5MM	1	PC	J253
41-WJ0185-B00	WIRE BARE JUMPER 18.5MM	1	PC	J911
41-WJ0195-B00	WIRE BARE JUMPER 19.5MM	1	PC	J249
45-OSC24M-5N0	CRYSTAL 24.576 MHZ	1	PC	Z200
46-10967W-01XG	PIN BASE *1 TJC1-1A	1	PC	G1
46-33079W-02XG	PIN BASE *2 TJC3-2A	1	PC	P407 FOR SCAN BD S407
46-33079W-04XG	PIN BASE *4 TJC3-4A	1	PC	P003
46-33079W-04XG	PIN BASE *4 TJC3-4A	1	PC	P405 FOR SCAN BD S405
46-33079W-05XG	PIN BASE *5 TJC3-5A	1	PC	P603 FOR SCAN BD S603
46-33079W-05XG	PIN BASE *5 TJC3-5A	1	PC	P202 P1 - P5 FOR CRT BD P503
46-33079W-06XG	PIN BASE *6 TJC3-6A	1	PC	P810 FOR SCAN BD S810
46-33079W-06XG	PIN BASE *6 TJC3-6A	1	PC	P406 FOR SCAN BD S406
64-P30080-104G	M/C SCREW P 3 X 8	2	PC	MTG Q080 & Q001
67-H10918-4M2	HEAT SINK	2	PC	FOR Q080 & Q001
19-BB0223-JTX	SMD. RES 22K OHM 1/10W +/-5%	1	PC	R046
T8-C181M5-OTSM1	ASS'Y - PARTS SM. BD 'TXT+SCT'	1	PC	
07-389FI5-NA3G	TUNER FSBP05P-3-E	1	PC	TU100
13-PI2072-NFB00	IC TDA12072H/N1F00(WRITE)	1	PC	IC200
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	PC	R262
18-CB0363-JNX	RES. C.F. 36K OHM 1/6W +/-5%	1	PC	R200
18-CB0394-JNX	RES. C.F. 390K OHM 1/6W +/-5%	1	PC	J927
18-CB0472-JNX	CARBON RES. C.F. 4.7K OHM 1/6W	1	PC	R211
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	R227
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	JP111
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	R228
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	R204
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	PC	JP105
19-BB0102-JTX	SMD. RES 1K OHM 1/10W +/-5%	1	PC	R223
19-BB0184-JTX	SMD. RES 180K OHM 1/10W +/-5%	1	PC	R235
19-BB0203-JTX	SMD. RES 20K OHM 1/10W +/-5%	1	PC	R201
19-BB0224-JTX	SMD. RES 220K OHM 1/10W +/-5%	1	PC	R260
19-BB0472-JTX	SMD. RES 4.7K OHM 1/10W +/-5%	1	PC	R211A
19-BB0474-JTX	SMD. RES 470K OHM 1/10W +/-5%	1	PC	R226
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	PC	C212

28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	PC	C109
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0	1	PC	C247A
28-BB0332-KBX	SMD CAP 0.0033UF 50V +/-10%	1	PC	C202
41-BF0150-2BB	WIRE UL 1007 #24 150MM RED	1	PC	FOR A - A
41-WJ0080-B00	WIRE BARE JUMPER 8 MM	1	PC	J929
45-SAW296-6M00G	SAW FILTER K2966M	1	PC	Z100
46-33079W-07XG	PIN BASE *7 TJC3-7A	1	PC	P200 FOR SIDE AV BD
63-W30100-AB4G	S/T SCREW W 3 X 10 AB	1	PC	MTG SM. BD & M. BD BKT
46-33079W-07XG	PIN BASE *7 TJC3-7A	1	PC	P920(反插) FOR SCART BD P910
46-33079W-05XG	PIN BASE *5 TJC3-5A	1	PC	P001(反插) FOR KEY BD P005
T8-C181M5-SWY	ASS'Y - PWR SW. BD	1	PC	
14-LED03R-XX0	LED RED HFR303J(R) (3MM)	1	PC	D001
40-25181T-SWAOXG	P.C.B. SWITCH BD	1	PC	
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J001
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	PC	J002
46-27626W-02XG	PIN BASE *2 TJC3-2A (HORIZ)	1	PC	S001 FOR KEY BD P005A
46-35063W-03XG	PIN BASE *3 VH-3A	1	PC	P801 FOR POWER CORD
46-35063W-03XG	PIN BASE *3 VH-3A	1	PC	P801A
46-39073H-03XG	HS 2P 1617#22 200 TJC1-2Y/VH-3	1	PC	FOR PWR SW. BD(P801A) & PWR PARTS
48-POW001-AX0G	SWITCH POWER	1	PC	SW801
51-DC0220-OCN04G	POWER CORD TCL-CB-189-A00	1	PC	
57-LEDK10-000	LED BRACKET	1	PC	
62-262660-OHN	POWER SW. ADAPTER	1	PC	
66-382330-0B7	RIVET 2.0X3.7X3.5	8	PC	FOR SW801, P801, P801A
T8-C181M5-PAN	ASS'Y - PACKING	1	PC	
75-C181LL-CC0	POLYFOAM LL	1	PC	
75-C181LR-CC0	POLYFOAM LR	1	PC	
75-C181UL-CC0	POLYFOAM UL	1	PC	
75-C181UR-CC0	POLYFOAM UR	1	PC	
T8-C181M5-PANZ	ASS'Y - PACKING 'ART'	1	PC	
72-C181M5-E34	OPERATION MANUAL	1	PC	
74-022032-6WE	POLYBAG (23CMX34CMX0.06MM)	1	PC	
74-120120-80HAA	POLYBAG W/SUFFOCATION WARNING	1	PC	
76-A25181-OAT	CARTON BOX	1	PC	
T8-C181M5-RC1	ASS'Y - REAR CABINET 'SCT'	1	PC	
54-114000-00X	FELT TAPE (150MMX19MMX0.3MM)	9	PC	STICK ON R. CAB
59-130460-00X	RUBBER PAD (25MMX7MM)	2	PC	STICK ON REAR CAB. (FOOTING)
62-389620-0UD	POWER LINE BLOCK	1	PC	

63-B30100-BT4G	S/T SCREW B3X10BT	2	PC	MTG SIDE AV BD & REAR CABINET
63-B40250-AB3G	S/T SCREW B 4 X 25 AB (BLACK)	10	PC	MTG R. CAB. TO F. CAB.
63-F30100-BT3G	S/T SCREW F 3 X 10 BT	2	PC	MTG SCT JACK & REAR CABINET
T8-C181M5-RC1Z	ASS'Y - REAR CABINET 'ART/SCT'	1	PC	
55-C189RC-3CN	REAR CABINET	1	PC	
58-369730-3UI	INLAY SCART	1	PC	
58-C181MP-JKT	PLATE MODEL NO.	1	PC	
58-C189RI-5UI	INLAY REAR AV	1	PC	
58-D106SI-OUI	INLAY SIDE AV	1	PC	
T8-HS46F0-M68B	ASS'Y - REMOTE HANDSET BD	1	EA	
11-0BC337-0BX	TRANSISTOR (NPN) BC337-40	1	PC	Q1501
13-00AS12-13B	IC AS1213B	1	PC	IC1501
14-IRE05B-XX0	IR EMITTING DIODE TSAL6200	1	PC	D1501
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	1	PC	R1503
18-CB0229-JNX	RES. C.F. 2.2 OHM 1/6W +/-5%	1	PC	R1501
25-HBB479-M1X	CAP. ELEC 4.7 UF 10V +/-20%	1	PC	C1504
26-EBP101-JCS	CAP. CER 100 PF 50V +/-5%	1	PC	C1501
26-EBP101-JCS	CAP. CER 100 PF 50V +/-5%	1	PC	C1502
26-EBP104-ZFS	CAP. CER 0.1UF 50V +80%/-20%	1	PC	C1503
40-UOCASF-RMA1XG	P.C.B REMOTE HANDSET BD	1	PC	
45-COS455-KY1	CERAMIC RESONATOR 455KHZ	1	PC	X1501
63-B26060-BT2G	S/T SCREW B 2.6 X 6 BT	1	PC	
67-X26968-0E2	BATT. TERMINAL (+/-)	1	PC	
67-X31028-0E2	SPRING - BATTERY (-)	1	PC	
67-X31029-0E2	SPRING - BATTERY (+)	1	PC	
74-009022-60C	POLYBAG HANDSET (9CMX22CM)	1	PC	
T8-HS46F0-M68BZ	ASS'Y-ARFREMOTEHANDSET	1	EA	
49-HS46F0-00X	RUBBER KEY PAD	1	PC	
55-HS46FB-OHA	FREMOTEHANDSET-BOTTOMCABINET	1	PC	
55-HS46FD-OHA	FBATT. DOOR	1	PC	
55-HS46FT-OHA	FREMOTEHANDSET-FRONTCABINET	1	PC	
58-HS46F4-KUI	INLAY REMOTE HANDSET	1	PC	
V8-T00M68-13M16	SOFTWARE CODE	1	PC	FOR IC200

4、 Alignment Procedure

Alignment Procedures

MODEL No. : 25181

Chassis name	M68	File No.	
Prepared by	Mr. Simba Yao	Serial No.	
Reviewed by		Version	
Issued on	2005-02-20	Updated on	

Version: states by two Arabic Numbers, which is separated by one dot, e.g. 1.1. The first number means the version of signed file, the second one means the version of draft.

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Table of Content

1. GENERAL.....	3
1.1 Common information.....	3
1.2 1.2 How to enter Factory Mode.....	3
1.3 A few special modes.....	3
1.3.1 Aging mode.....	3
1.3.2 Vertical stop mode.....	3
1.3.3 White balance alignment mode.....	3
1.3.4 Factory mode (Initialization).....	3
2. Alignment procedures.....	4
2.1 B+ voltage adjustment.....	4
2.2 RF AGC adjustment.....	4
2.3 Crystal oscillator frequency adjustment.....	4
2.4 Screen & Focus voltage adjustment.....	4
2.5 White balance adjustment(NORMAL).....	4
2.6 Adjustment of Sub-brightness.....	5
2.7 Picture geometric adjustment.....	5
2.8 EHT/HEW ratio test: (test with PC program.....	6
2.9 X rays over voltage protecting circuit test.....	6
2.10 PS line polarities test.....	6
2.11 PS power test.....	7
2.12 High voltage and Ib value limit test(random test).....	7
2.13 Heater voltage test (random test).....	7
2.14 Main function test (eg, NICAM, BTSC, TELTEXT and etc.).....	7
3. EEPROM Data and Address.....	8
4. White balance address.....	10
5. CDRH Document (If available).....	10
6. REMARK.....	10

1. GENERAL

1.1 Common Information

- 1.1.1 Use isolating transformer with low internal resistance.
- 1.1.2 Mains voltage is **90-260** V AC, unless otherwise stated.
- 1.1.3 All voltages and waveforms mentioned are with respect to Ground. Do not use heat-sink as Ground.

1.2 How to enter factory Mode (Service menu, service mode)

- 1.2.1 Certain alignment procedures need to enter Factory Mode (Service Menu). There are two ways to access factory mode:

One is :

A. **Press and hold the VOLUME DOWN key tightly on the unit until minimum level**

B. **Don't release the VOLUME DOWN key on the unit**

C. **Then press the CAPS key in 3 times on the RC**

The other is:

Press **"Service"** Key on the factory RC. (Please noted the "D-mode" key is the invalid shortcut key if "bit-0" of "mode 1" is at "1".)

- 1.2.2 All system data in Factory Mode of **"Key 8 & Key 9"** are not adjustable when servicing, otherwise, the set will work abnormally.
- 1.2.3 It is suggested to disable the Service key before the set leave the factory.

Navigation:

- Press **"Pro+"** **"Pro -"** key to select option;
- Press **"Vol+ "** **"Vol-"** key to adjust or select option.
- Press **"0-9"** **"Notebook"** **"Favorite"** **"Sleep"** on the RC as the shortcut key to access factory menu.; All change in factory data will be saved in EEPROM automatically
- Press **"BUS OPEN"** key on factory RC to cut off the I2C control from the CPU to other ICs. This is only valid during automatic adjustment of white balance.

1.3 A few special modes:

- 1.3.1 **Aging Mode** is used before set alignment. It would operate in factory mode;
- 1.3.2 **Vertical Stop mode** is used to confirm the screen voltage. Press "Mute" key in factory mode and repress " mute" key to exit.
- 1.3.3 White balance alignment mode
- 1.3.4 Factory Mode (Initialization)

In factory mode, press **RECALL** button to initialize the FACTORY-OUT status.

Volume: **30**, PG password:**0000**, Favorite channel: **ch1/ch2/ch3**,

channel lock: **disable**, Picture mode: **normal**,

Color temp: **normal**, calendar:**01-08-2004**

2. Alignment procedures:

2.1 B+ voltage adjustment

- 2.1.1 Needn't adjust B+ voltage on the line.

2.2 RF AGC adjustment

- 2.2.1 Input 58dB grey scale signal.
 2.2.2 Press key "4" to enter RF AGC adjustment.
 2.2.3 Press "OK" key to auto adjust RF AGC, also can adjust "RF AGC" by "volume +/-" key until the letter change from "INACTIVE" to "ACTIVE".

* The others use default value.

2.3 Crystal oscillator frequency adjustment

2.3.1 Crystal oscillator frequency adjustment with NICAM

- Apply PAL BG NICAM signal with good reception quality.
- Enter factory mode, press "game" key, then press "V+" key to adjust "DCXO Auto", until it displays "OKEY".

2.3.2 Crystal oscillator frequency adjustment without NICAM

- Input PAL color bar signal.
- Enter factory mode, press "game" key, then press "V+" key to adjust "DCXO Auto", until it displays "OKEY".

2.4 Screen & Focus voltage adjustment

2.4.1 Screen voltage adjustment

- Press "MUTE" key on the remote control and the screen will become a horizontal line, here vertical stop vibration. Then adjust the "screen" VR on the flyback until the horizontal line can just be seen (minimum visible intensity).

2.4.2 Focus voltage adjustment

- Input cross hatch pattern signal.
- Adjust the "focus" VR on the flyback until the screen becomes clear.

2.5 White balance adjustment (NORMAL)

- Choose Black and White pattern signal (PAL).
- On factory mode, press "1" key enter white balance adjustment.
- Measure the dark side of the picture with a color analyzer adjust RED and GRN until the data on the analyzer become $x=274\pm8$, $y=280\pm8$.
- Measure the bright side of the picture. Then adjust WPR, WPG and WPB until the data on the analyzer become $x=274\pm8$, $y=280\pm8$.
- Repeat step 1 and 2 until you get right color on both dark and bright side of the screen.

Remark :

- When adjusting, RED、GRN are used to adjust black balance and WPR、WPB、WPG are used to adjust white balance .
- On product line, the item which can be auto adjusted by auto test equipment , its data according to auto adjust value.
- White balance address please meet the fourth part at page 10.

2.6 Adjustment of Sub-brightness

- Input grey scale + color bar signal.

2.6.2 Press key "6" to enter sub-brightness adjustment.

2.6.3 At standard state, adjust "BRTC", until the secondary grey just be seen.

* Do not change value "BRTS".

2.7 Picture geometric adjustment

2.7.1 Vertical geometric adjustment

a. Input a PAL cross hatch pattern signal .

b. Press key "2" to enter Vertical geometric adjustment .

c. Use remote control to adjust one by one , watch the figure, until the center or the corner grid has a same size .

d. When adjust vertical position , make the center of vertical intermediately.

e. In "5VSL", the second half may blanking , adjust the first half at display range.

Remark :

1 5VSC , 31 is fixed, don't adjust .

2 5VPOS for vertical position.

3 5VAM for vertical amplitude.

4 5VSL for vertical slope.

5 5VL for vertical linearity.

6 5SCL for vertical S-correction.

7 5WBR for end of blanking time on 4:3 mode (16:9 tube).

8 5WBF for start of blanking time on 4:3 mode (16:9 tube).

9 5BSWBR for right side black width of blue screen .

10 5BSWBF for left side black width of blue screen.

* 5WBF/5WBR only use on matching 16:9 tube, at 4:3 picture mode, adjust blanking time of R and F. First press "ZOOM" key switch to 4:3 mode, then adjust 5WBF and 5WBR respective to make the overscan meet the requirements.

*Adjustment is disabled when match 4:3 tube.

* 5BSWBR and 5BSWBF needn't adjustment.

*Apply NTSC signal to adjust these registers for NTSC geometric

2.7.2 Horizontal geometry adjustment

a. Input a PAL cross hatch pattern with black and white background signal.

b. Press key "3" enter Horizontal geometric adjustment.

c. Use remote control to adjust one by one , watch the figure, until the center and the vertical line at left and right side of the picture become straight.

Remark :

1. Adjust 5HSH for horizontal position, data should make H center mediacy .

2. 5PAR for parallelogram adjustment.

3. 5BOW for bow adjustment.

4. Adjust 5EWW for horizontal width.

5. 5EWP for pincushion correction.

6. 5UCR for upper corner correction.

7. 5LCR for low corner correction.

8. 5EWT for trapezium correction.

* Apply NTSC signal to adjust these registers for NTSC geometric

2.8 EHT/HEW ratio test: (test with PC program)

Equipment requirements : High Voltage Meter (Range: 0 - 40kV)、High voltage test stick (1000:1)、Adjustable DC power supply、Dummy deflexion coil(as same inductance as CRT which use to product).

Test method :

- Mount the EHT cap onto the fixture and connect the EHT meter. Plug in the dummy deflexion coil. Connect the DC meter across C417.
- Switch on the chassis and measure the ratio of EHT/HEW at $I_b = 0$ (brightness、contrast are minimum).

Here, the HEW is the DC voltage across C417.

EHT voltage V, HEW voltage V1.

- Apply PC program, V/V1 need satisfy request below :

EHT/HEW (V/V1)		
29A71	44-29RFLN-OR5A	
	A68QFD090X012	

2.9 X rays over voltage protecting circuit test**Test method :**

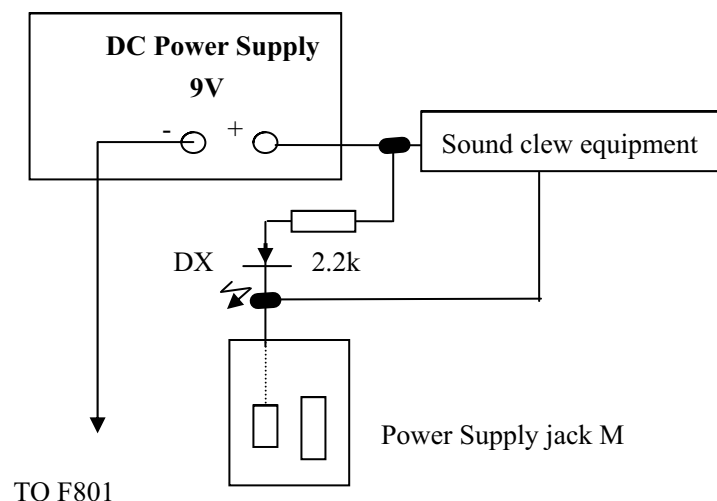
When TV ON with color bar signal, add more than 27V DV to **C417**, machine could enter into protection mode, otherwise please inspect X rays over voltage protecting circuit .

2.10 PS line polarities test

This test only the machines which will sell to NAFTA should be done.

Test method :

Connect as drawing below :



Plug the card power connector plugs to Power Supply jack M, and use multimeter pen touch F801 random pin, then LED DX should luminescence and clew with sound, otherwise it is unqualified.

2.11 PS power test**Equipment requirements :** Wattmeter**Test method :**

- Input more than 60dB color bar signal, audio 1K Hz, 100% modulation.
- Brightness and contrast are maximum, adjust the volume to make the audio output power at 0.5W.
- Connect the wattmeter to test power consumption of Power Supply.
- Switch the set to standby mode, and then measure the power consumption of Power Supply again.

It should satisfy request below :

Type	Power	Standby power
25"	?W	10W
29"	?W	10W
34"	?W	10W

2.12 High voltage and Ib value limit test(random test)**Equipment requirements :** Multimeter, High Voltage stick
Beam Current Meter**Input signal type :** A 60dB white pattern signal.**Test method :**

- Connect the EHT-meter across the anode and aquadag of the CRT.
- Connect a beam current meter between the anode of picture tube and EHT-cable of FBT.
- Measure the EHT-voltage at zero beam current ($I_{beam} = 0\mu A$).
- Subsequently, measure the EHT-voltage at respective $I_{beam(s)}$.

It should satisfy request below :

Beam current	EHT-voltage (KV)
$I_b = 50\mu A$	
$I_b = 50\mu A \& 1200\mu A$	

2.13 Heater voltage test (random test)**Equipment requirements :** True RMS Voltmeter**Input signal type :** Philips test card (from 1 mV rms (60dBuV) to 50 mV rms)**Test method :**

- Connect the true RMS voltmeter between the heater and grand.
- Adjust the brightness and contrast to maximum .
- Then, test the heater voltage . It may be V_{rms}

2.14 Main function test (eg, NICAM, BTSC, TELTEXT and etc.)**NICAM** test standard please reference**BTSC** test standard please reference**TELTEXT** test standard please reference **Q/WP1259-2003**.**CCD、V-CHIP** test standard please reference EIA-744-A

3. EEPROM Data and Address.

Items marked with * are not adjustable, the others are adjustable.

KEY 1		KEY 2		KEY 3		KEY 4	
Item	Data	Item	Data	Item	Data	Item	Data
RED	32	5VPOS	35	5HSH	28	RF AGC	20
GRN	26	5VAM	35	5PAR	29	CPEK PAL	32
WPR	35	5VSL	33	5BOW	41	CFPEKPAL	3. 5M
WPB	23	5VL	33	5EWW	36	CFPEKNTS	3. 1M
WPG	33	5VSC *	31	5WEP	28	CFPEKYUV	4. 0M
		5SCL	25	5UCR	48	IFPL	32
		5WBF	5	5LCR	44	BBTC	32
		5WBR	4	5EWT	25	PGR/G/B	64
		5BSWBF	5			VG2BRI	20
		5BSWBR	5			HDOL	4

KEY 5		KEY 6		KEY 7		KEY 8	
Item	Data	Item	Data	Item	Data	Item	Data
CNTX	53	CNTC	25	SHPTV4	31	OPT1	0A
CNTN	2	BRTC	32	SHPX	31	OPT2	80
BRTX	11	COLC	28	SHPN	31	OPT3	33
BRTN	5	TNTC	30	OSD BRI	15	OPT4	0
COLX	63	COLP	0	5CCDH	8	OPT5	27
COLN	0	COLS	28	5CCDV	35	OPT6	0B
TNTX	20	BRTS *	0	5OSDH	15	OPT7	58
TNTN	12			5OSDV	42	OPT8	0
				5MENUV	18	OPT9	4
				MENUH	7	OPT10	0

KEY 9		KEY 0		KEY NOTEBOOK	
Item	Data	Item	Data	Item	Data
MODE1	26	VOL 01	27	BASS M	86
MODE2	97	VOL 25	121	BASS S	30
MODE3	50	VOL 50	135	BASS T	40
MODE4	AD	VOL 100	148	TREBLE M	85
MODE5	1F	YDFE PAL	15	TREBLE S	30
MODE6	8E	DEC LVL	0	TREBLE T	70
MODE7	10	MONO LVL	0	300Hz M	11
MODE8	22	NIC LVL	0	300Hz S	4
MODE9	C2	ADC LVL	0	300Hz T	5
MODE10	10	DCX0 CAP	54	500 Hz M	9
		NICLPINV	not inverted	500 Hz S	7
		PSCALE	0.375	500 Hz T	6
		PLIM	96	1K Hz M/S/T	6/6/7
		PCENTER	212	5K Hz M/S/T	9/7/9
		LOUDNESS	6	8K Hz M/S/T	11/4/11

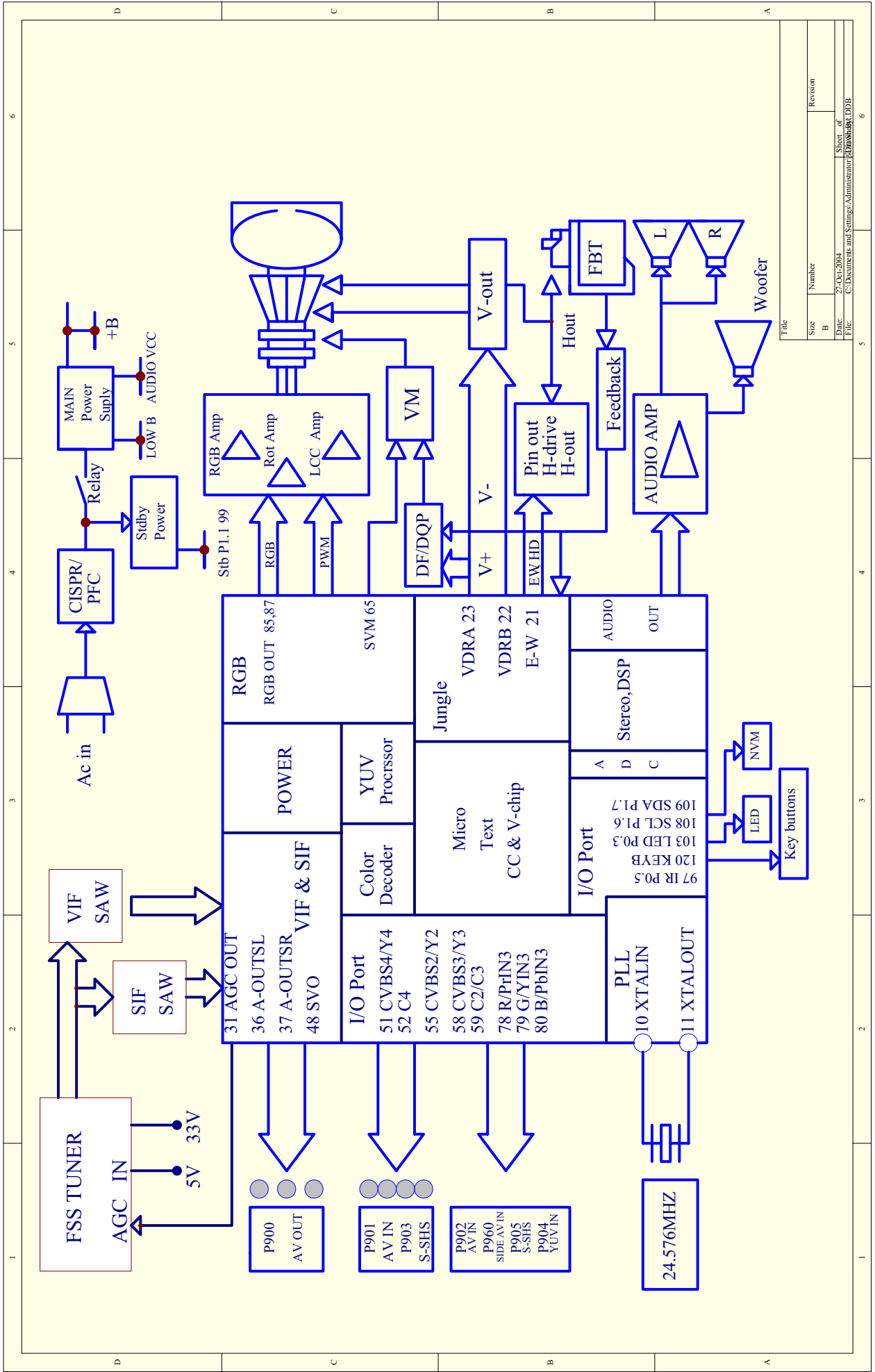
KEY FAVORITE		KEY SLEEP		KEY	
Item	Data	Item	Data	Item	Data
Warm R	4	SET P1	147M		
Warm G	0	SET P2	423M		
Warm B	6	DATA VL	1		
Cool R	6	DATA VH	2		
Cool G	0	DATA UF	8		
Cool B	4	SPE POSI	0		
		SPE DATA	0		
		SENSI ON	0		
		SENSI OFF	0		

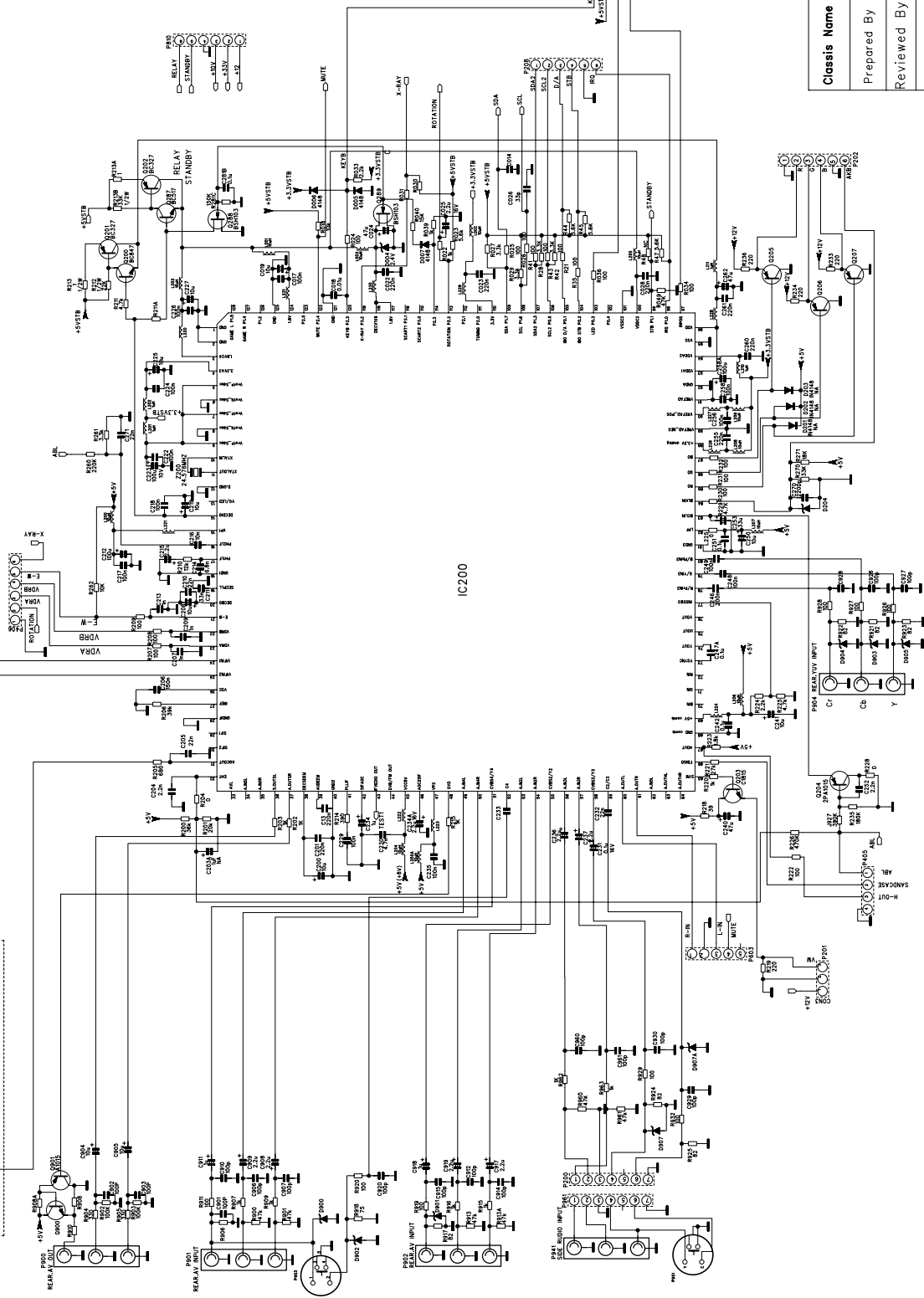
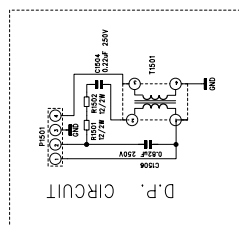
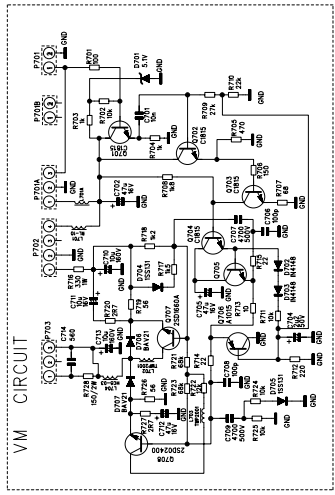
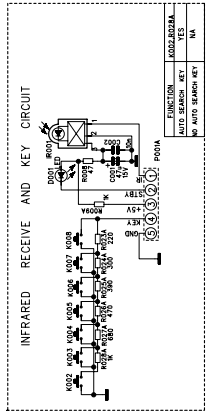
4. White balance address

R G B	R AMP	G AMP	B AMP	R CUT	G CUT	B CUT	Remark
Offset DATA	142	143	150	146	161	*****	Factual setup
IC write(LsB)							
Sub Add	32	33	34	23	24	*****	
Start Bit	6	6	6	6	6	*****	
StOp Bit	0	0	0	0	0	*****	
E ² PROM							
Sub Add(LsB)	122	123	124	119	120	*****	TV standard color TEM
Reference						B	BJ SanAi(SWB-301)
Slave Address(write)							
16 Bit EEPROM		Page Addr					
IC	138			E ² PROM	160		

5. CDRH Document (If available)**6. REMARK**

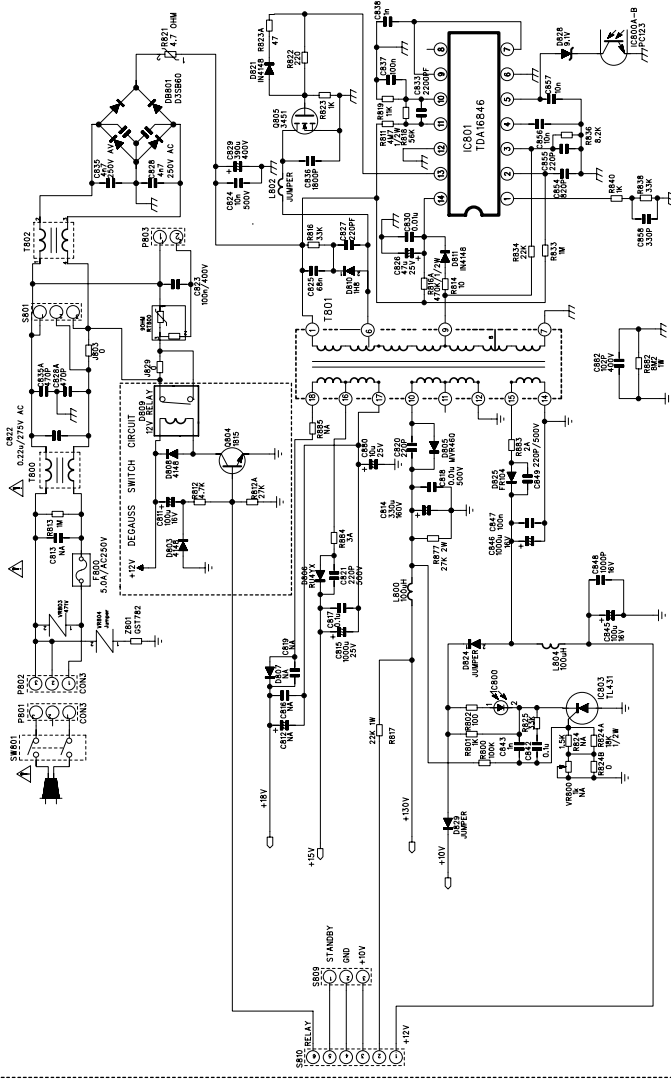
Grey characters needn't test or don't have this test in this chassis.





Classis Name	M68	Serial No.
Prepared By	Hou GuangYong	File No.
Reviewed By		Version No.
Issued on		Updated On
		2005_3_4

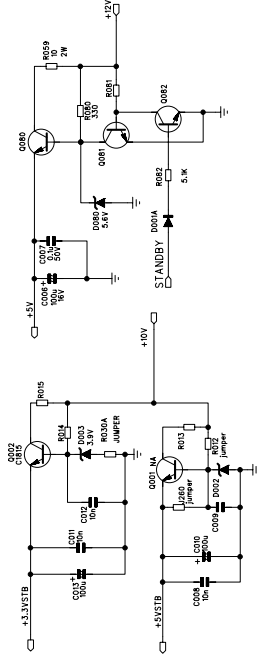
POWER CIRCUIT



ALTERNATIVE	J803	D829	S809
NO STANDBY BOARD	JUMPER	JUMPER	NA
STANDBY BOARD	NA	NA	YES

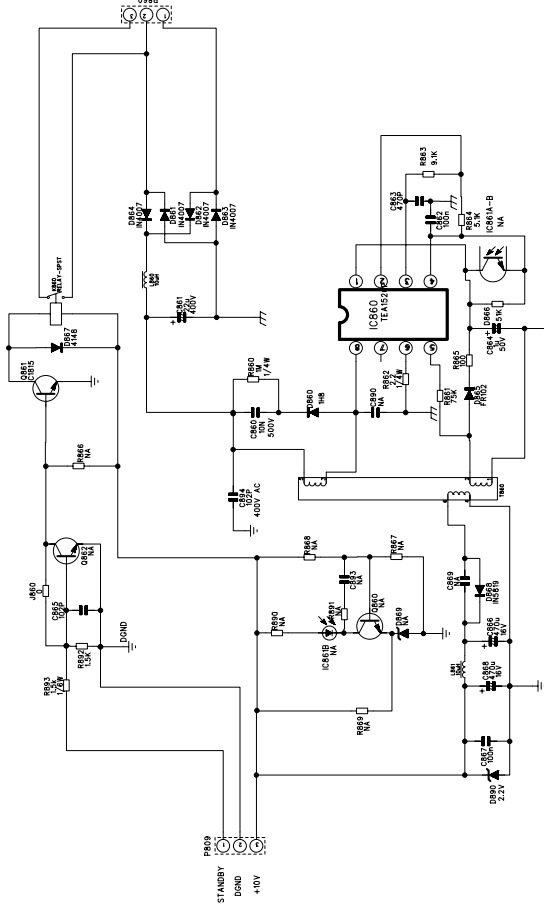
ALTERNATIVE	J809
DEGAUSS SWITCH CIRCUIT	NA
NO DEGAUSS SWITCH CIRCUIT	JUMPER

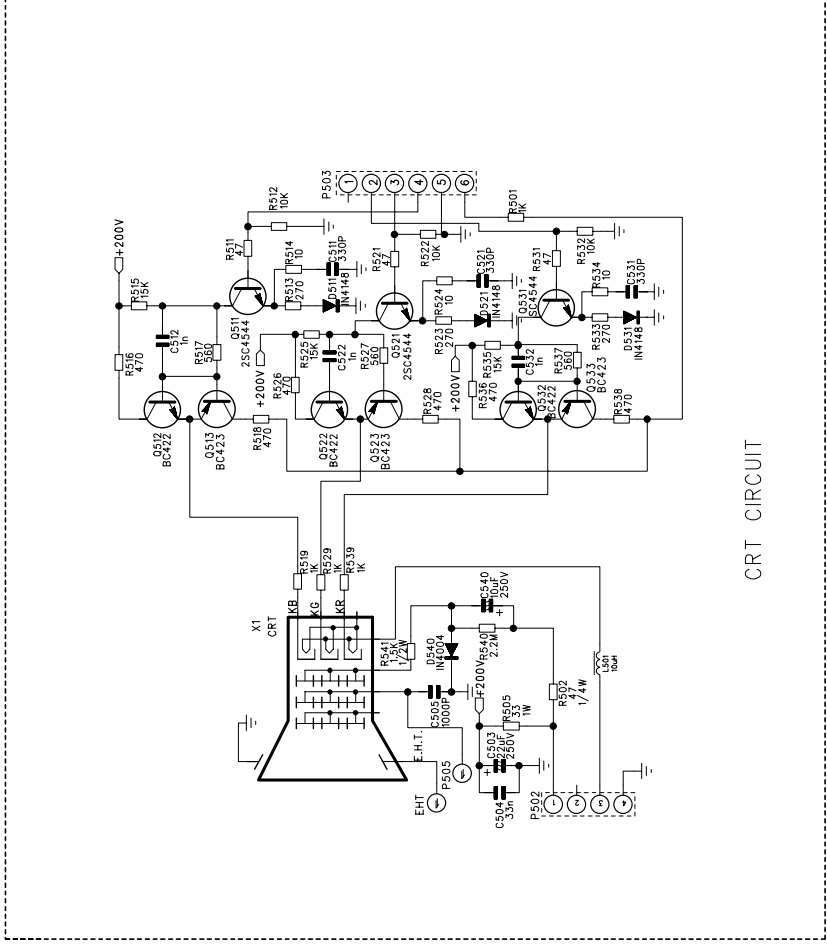
VOLTAGE CONVERSION CIRCUIT



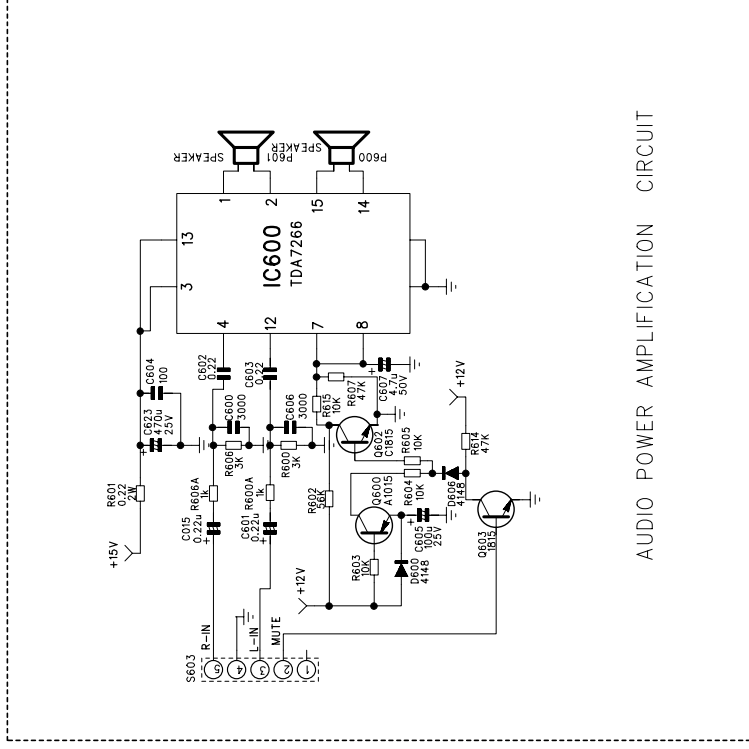
ALTERNATIVE	R015	R014	R013	R012	D002	C009	Q001	Q081.0082	R081	R082	D001A
STANDBY BOARD	10 2W	180	NA	JUMPER	NA	NA	NA	NA	NA	JUMPER	NA
NO STANDBY BOARD	47 2W	750	10 2W	390	5.6V	0.01	2508R8-P	B247	10K	5.1K	NA

STANDBY POWER BOARD

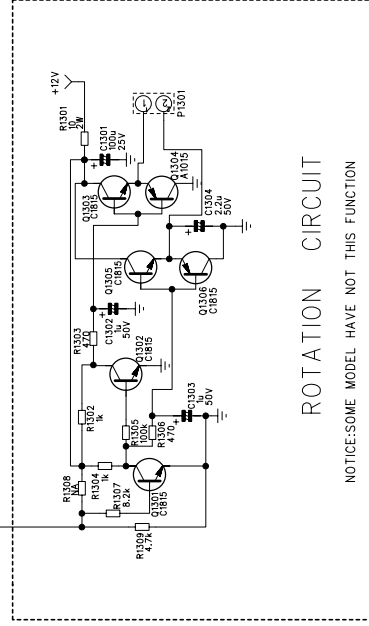
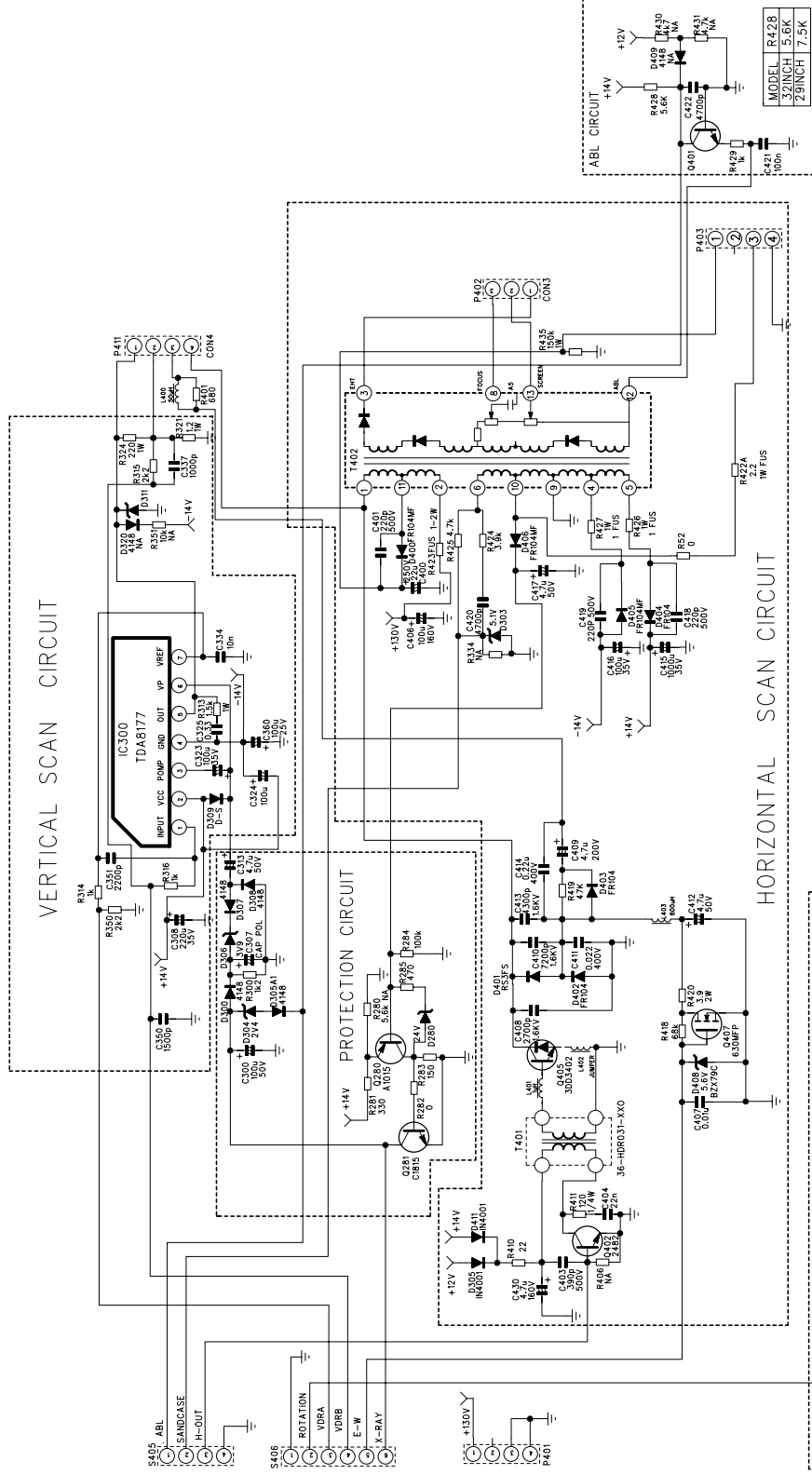




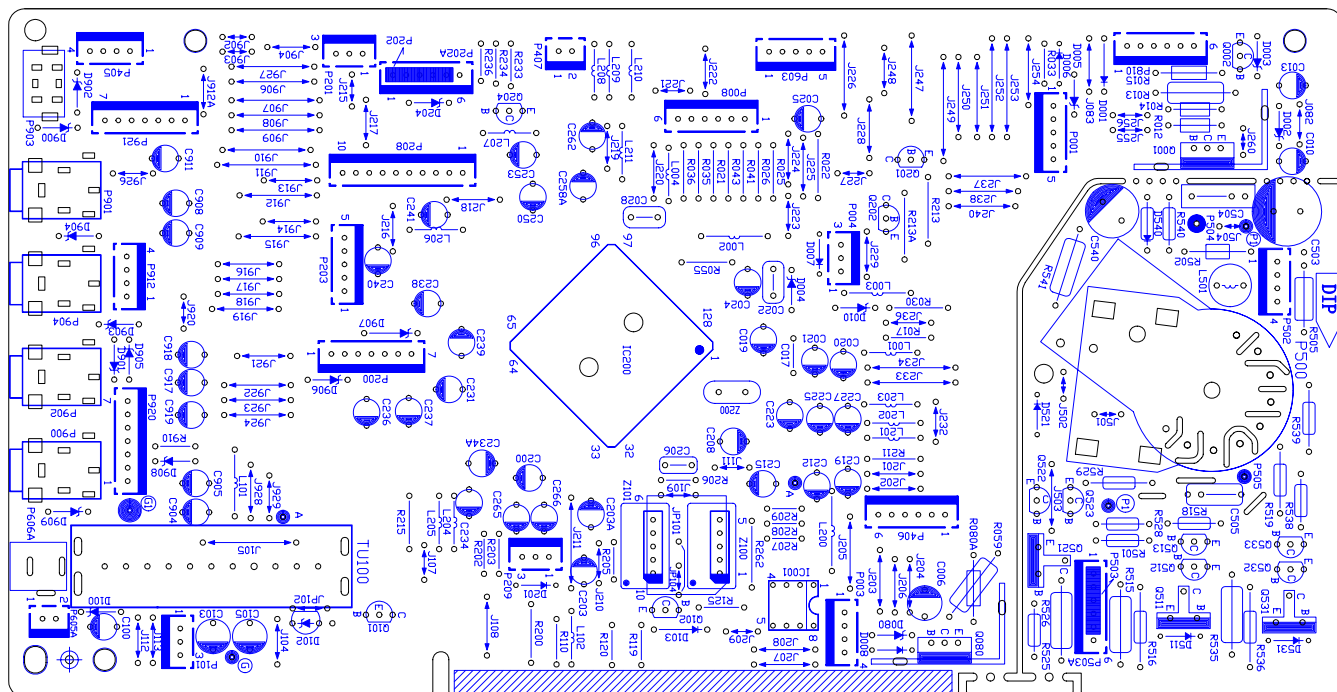
CRT CIRCUIT

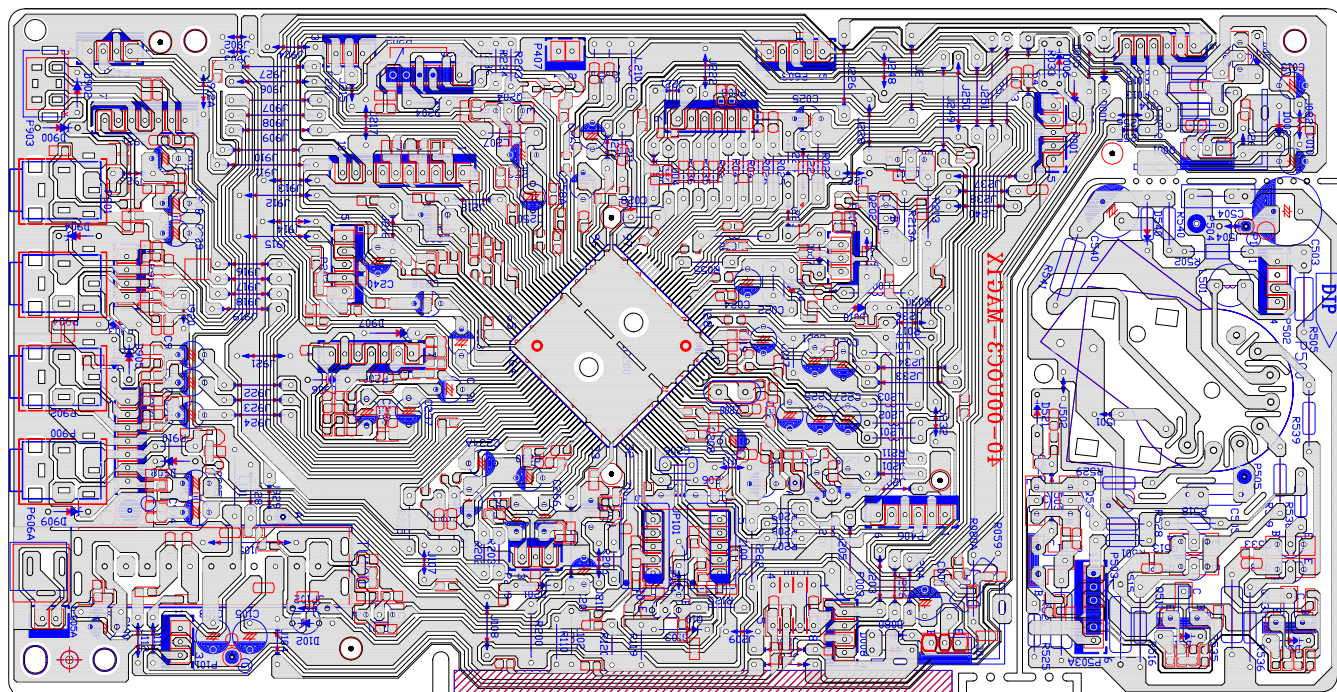


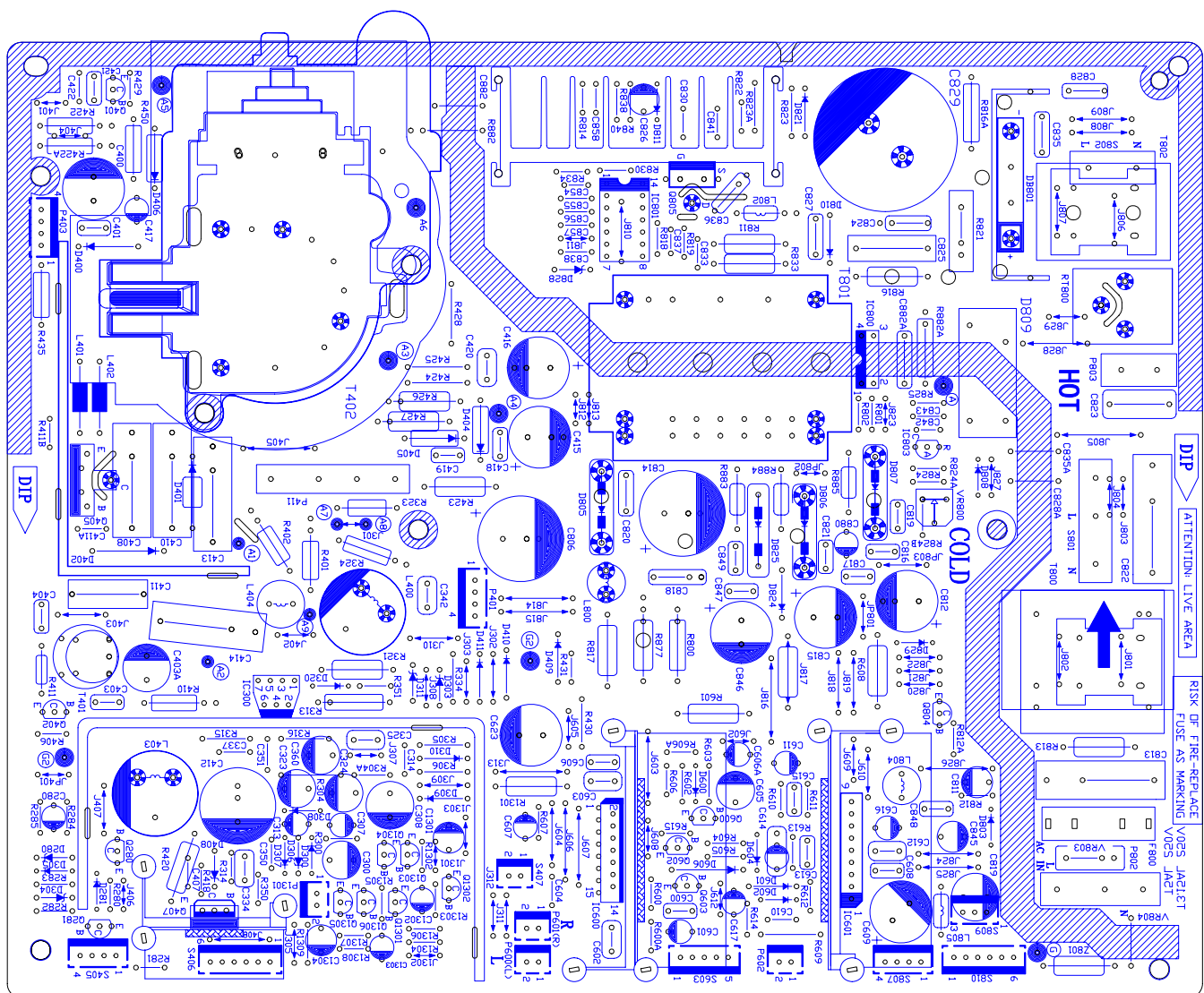
AUDIO POWER AMPLIFICATION CIRCUIT



CRT NO	C408	C410	C411	C413	C414	L400	T402	T401
44-32RFLS-LG1A W76QEP257X53	2700P 1.6KV	7200P 1.6KV	0.022U 400V	4300P 1.6KV	0.22U 400V	50UH	37-FDA002-FBA1A BSC29-0185X	36-HDR031-XX0 BCT-1213
44-29RFLS-OR3A A68QDL082X012(B)	3300P 1.6KV	8200P 1.6KV	0.022U 400V	4300P 1.6KV	0.33U 400V	21UH	37-F05013-5410X JF 0501-3541	36-HDR029-XX1 BCT-1012B

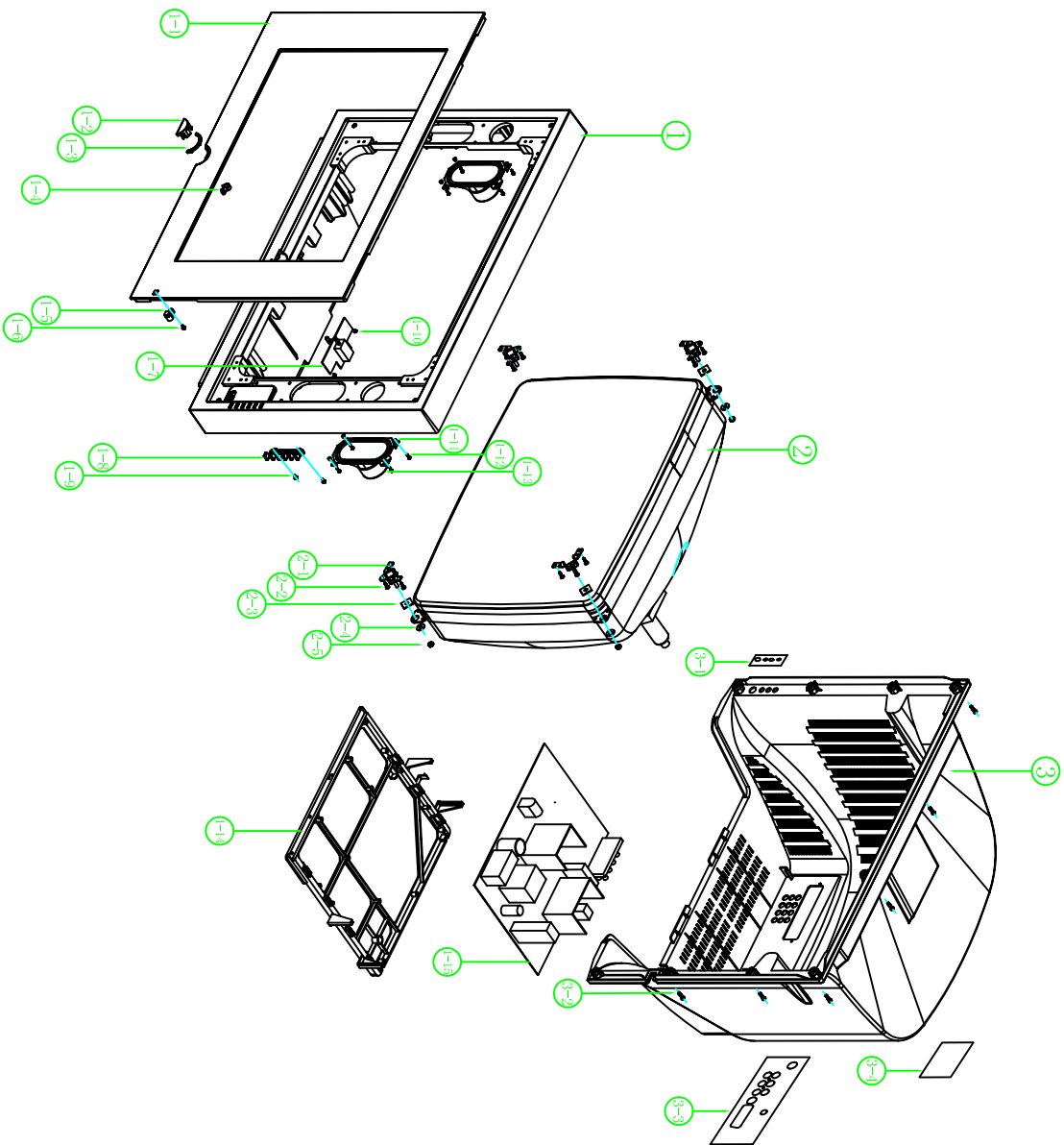






6. Exploded Views & parts List

6-1. 25181



Code No			
No	Code No	Discription;Specification	Qty Remark
1	55-C181MC-1CN	MIDDLE CABINET	1
1-1	55-C181FC-0CN	FRONT CABINET	1
1-2	56-D181PK-0HA	POWER KNOB	1
1-3	56-396460-0HA	DECORATIVE LENS	1
1-4	56-C276LS-0HC	LIGHT GUIDE	1
1-5	56-D181LS-0HC	LENS	1
1-6	63-W30100-AB4	SCREW	1
1-7	40-T25181-SWD	POWER PCB	1
1-8	56-D181PB-0HA	PUSH BUTTON	1
1-9	63-W30100-AB4	SCREW	2
1-10	63-Z30100-AB4	SCREW	2
1-11	59-312160-000	SPEAKER RUBBER CUSHION	8
1-12	63-W30140-HS4	SCREW	8
1-13	42-61308G-XX1	SPEAKER	2
1-14	62-B159MB-3UN	MAIN BOARD BRACKET	1
1-15		MAIN PCB	1
2	44-25RFLN-SJ2	CRT	1
2-1	67-346620-0E0	CRT BRACKET	4
2-2	63-B40150-AB2	SCREW	12
2-3	54-314740-0X0	CRT FIBRE SHEET	8
2-4	65-A60200-20E	WASHER	4
2-5	65-Z60100-50E	NUT M 6. 0 X 1. 0	4
3	55-C189RC-2CN	REAR CABINET	1
3-1	58-D106SI-0UI	INLAY SIDE AV	1
3-2	63-40250-AB3	S/T SCREW BAX25 AB	10
3-3	58-C189RI-KUI	INLAY REAR AV	1
3-4	58-C181MP-0UI	PLATE MODEL NO.	1
MTG REAR CAB & FRONT CAB			