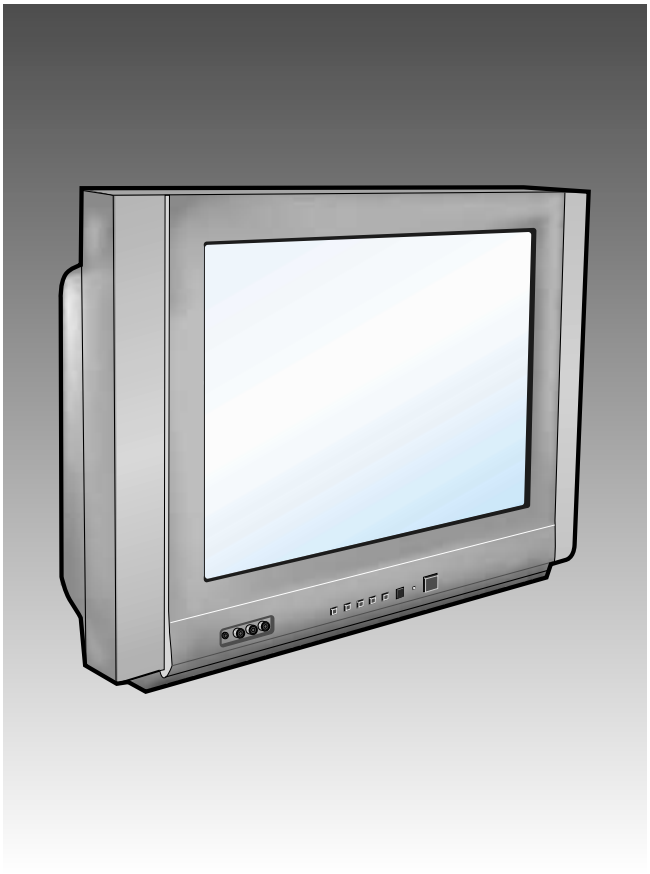
SAMSUNG

COLOR TELEVISION RECEIVER

Chassis : KS2A(N) (REV.2)
Model : TXM2091FX/XAA

SERVICE Manual

COLOR TELEVISION RECEIVER



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ELECTRONICS

Printed in Korea
AA82-00054A

1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):
   Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

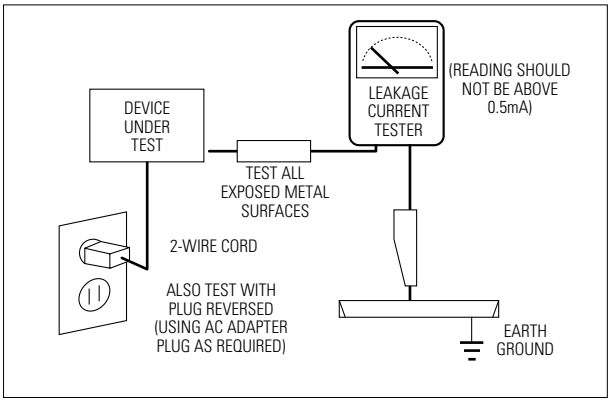


Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.

7. X-ray Limits:
   The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.

8. High Voltage Limits:
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.
   Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced.
   (X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

   Heed the high voltage limits. These include the X–ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

1-1 Safety Precautions (Continued)

9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

10. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

11. Hot Chassis Warning:
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.

13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.

15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

16. Picture Tube Implosion Warning:
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

18. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.

    Components that are critical for safety are indicated in the circuit diagram by shading, (⚡) or (⚠).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications.
    A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.
Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.

2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.

3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.

4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.

5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).

6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.

7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

2. Immediately before handling any semicon ductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)

3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.

4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.

5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.

6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.

7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.

8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

CAUTION

These servicing instructions are for use by qualified service personnel only.
To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

2. Reference Information

2-1 Tables of Abbreviations and Acronyms

Table 2-1 Abbreviations

A	Ampere	MV	Megavolt
Ah	Ampere-hour	MW	Megawatt
Å	Angstrom	MΩ	Megohm
dB	Decibel	m	Meter
dBm	Decibel Referenced to One Milliwatt	µA	Microampere
		µF	Microfarad
°C	Degree Celsius	µH	Microhenry
°F	Degree Fahrenheit	µm	Micrometer
°K	degree Kelvin	µs	Microsecond
F	Farad	µW	Microwatt
G	Gauss	mA	Milliampere
GHz	Gigahertz	mg	Milligram
g	Gram	mH	Millihenry
H	Henry	ml	Milliliter
Hz	Hertz	mm	Millimeter
h	Hour	ms	Millisecond
ips	Inches Per Second	mV	Millivolt
kWh	Kilowatt-hour	nF	Nanofarad
kg	Kilogram	Ω	Ohm
kHz	Kilohertz	pF	Picofarad
kΩ	Kilohm	lb	Pound
km	Kilometer	rpm	Revolutions Per Minute
km/h	Kilometer Per Hour	rps	Revolutions Per Second
kV	Kilovolt	s	Second (Time)
kVA	Kilovolt-ampere	V	Volt
kW	Kilowatt	VA	Volt-ampere
l	Liter	W	Watt
MHz	Megahertz	Wh	Watt-hour

Table 2-2 Table of Acronyms

ABL	Automatic Brightness Limiter
AC	Alternating Current
ACC	Automatic Chroma Control
AF	Audio Frequency
AFC	Automatic Frequency Control
AFT	Automatic Fine Tuning
AGC	Automatic Gain Control
AM	Amplitude Modulation
ANSI	American National Standards Institute
APC	Automatic Phase Control
APC	Automatic Picture Control
A/V	Audio-Video
AVC	Automatic Volume Control
BAL	Balance
BPF	Bandpass Filter
B-Y	Blue-Y
CATV	Community Antenna Television (Cable TV)
CB	Citizens Band
CCD	Charge Coupled Device
CCTV	Closed Circuit Television
Ch	Channel
CRT	Cathode Ray Tube
CW	Continuous Wave
DC	Direct Current
DVM	Digital Volt Meter
EIA	Electronics Industries Association
ESD	Electrostatic Discharge
ESD	Electrostatically Sensitive Device
FBP	Feedback Pulse
FBT	Flyback Transformer
FF	Flip-Flop
FM	Frequency Modulation
FS	Fail Safe
GND	Ground
G-Y	Green-Y
H	High
HF	High-Frequency
HI-FI	High Fidelity
IC	Inductance-Capacitance
IC	Integrated Circuit
IF	Intermediate Frequency
I/O	Input/output
L	Left
L	Low
LED	Light Emitting Diode
LF	Low Frequency
MOSFET	Metal-Oxide-Semiconductor-Field-Effect-Tr
MTS	Multi-channel Television Sound
NAB	National Association of Broadcasters
NEC	National Electric Code
NTSC	National Television Systems Committee
OSD	On Screen Display
PCB	Printed Circuit Board
PLL	Phase-Locked Loop
PWM	Pulse Width Modulation
QIF	Quadrature Intermediate Frequency
R	Right
RC	Resistor & Capacitor
RF	Radio Frequency
R-Y	Red-Y
SAP	Second Audio Program
SAW	Surface Acoustic Wave(Filter)
SIF	Sound Intermediate Frequency
SMPS	Switching Mode Power Supply
S/N	Signal/Noise
SW	Switch
TP	Test Point
TTL	Transistor Transistor Logic
TV	Television
UHF	Ultra High Frequency
UL	Underwriters Laboratories
UV	Ultraviolet
VCD	Variable-Capacitance Diode
VCO	Voltage Controlled Oscillator
VCXO	Voltage Controlled Crystal Oscillator
VHF	Very High Frequency
VIF	Video Intermediate Frequency
VR	Variable Resistor
VTR	Video Tape Recorder
VTVM	Vacuum Tube Voltmeter
TR	Transistor

2-2 IC Line Up

Table 2 - 3 IC Line - Up					
NO	**BOARD**	**LOC. NO**	**SPEC**	**DESCRIPTION**	**REMARK**
1	**MAIN**	IC201S	VDP3130Y-B1	Video Processor	Refer to Table 2-3-1
		IC601	MSP3440G-B6	NTSC Sound Processor	
		IC901	SIM408A	MICOM, Caption (MTP)	
		IC902	24WC16	EEPROM	
		IC602	TDA7297	Audio AMP	Refer to Table 2-3-2
		HIC201	DRGB001	RGB Drive AMP Hybrid IC	VM Option
		IC301	LA7845	Vertical IC	
		DH01	KSD5703	Horizontal Drive IC	DH01
		DAMPER-D	FMP-3FU		
		IC801S	KA3A1265RD	SPS Controllor	Option
		D801S	D5SB60	Bridge Diode	
		PC801S	PC123Y	Photo Coupler	
		DDR01	KA78R05	Regulator	DDR01
		IC804	KA7806	6V Regulator	
		IC803	KA78R08	8V Controlled Regulator	
		IC903	KA78RM33	3.3V Regulator	
		IC904	KIA7025AP	MICOM Reset IC	
		Q909	2N7000	IIC Level Shifter	
		Q910			
		TU01	TAFC-H0051	Main Tuner with IF Block	
		D813	FML-G12S	Rectifier Diode	
2	**CRT**	IC501	STV5109	Video Output AMP R.G.B Drive	

Table 2-3-1 VIDEO IC

SPEC	FUNCTION	REMARK
VDP3108B	Basic 1H Comb Filter	
VDP3130Y	2H Comb Filter, DVD Input	

Table 2-3-2 SOUND AMP

SPEC	FUNCTION	REMARK
TDA7297	7W x 2CH, 10W x 2CH	

3. Specifications

Television System	**Multi**	NTSC-M, PAL N.M	Option
Antena Input		75ohms, Coaxial Cable	
Power	**Consumption**	120W (Applied When 29” Flat)	Option
	Requirements	Free Volts(100V-240Volts)	Option
		Free Voltage	Not Present R815
	Frequency	50/60Hz	
Sound	**Output**	15W x 2CH	
		10W x 2CH	
		5W x 2CH	
	Effect	Vitual Dolby	Option
		Turbo Sound	
		Pseudo Stereo	
Jacks	**Front (AV2)**	RCA Input	
		S-VHS	Option
		Head-Phone	
	Back	2 AV Input	
		DVD Input(YPbPr)	Option
		AV2 Monitor Audio Output	Option
		S-VHS	Option

Specifications are subject to change.

MEMO

4. Alignment and Adjustments

4-1 General Alignment Instructions

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.

2. Observe the picture for good black and white details. There should be objectionable color shading; if color shading is present, demagnetize, perform purity and convergence adjustments described below.

3. Use the specified test equipment or its equivalent.

4. Correct impedance matching is essential.

5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.

6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.

7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.

8. To protect against shock hazard, use an isolation transformer.

4-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set is moved or turned in a different direction, the power should be OFF for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before turning power OFF.

If color shading persists, perform the following Color purity and Convergence adjustments.

4-3 High Voltage Check

CAUTION : There is no high voltage adjustment on this chassis. The B+ power supply should be +135 volts (with full color- bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.

2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).

3. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 30 KV under any conditions.

4-4 FOCUS Adjustment

1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

4-5 SCREEN Adjustment

1. Input Toshiba Pattern
2. Enter “Service Mode”.(Refer to “4-8-1 Service Mode”)
3. Select “G2-Adjust”.
4. Set the values as below.

Table 1. Screen Adjustment Table

No	INCH / CRT	IBRM	WDRV	CDL	COLR G B (Smallest Value)	REGION
1	14” / SDI	205	35	100	100	Normal
2	15PF / SDI	220	35	180	100	
3	21” 1.7R / SDI	220	35	180	100	
4	20V 10.0R/SDI	205	35	115	120	
5	21PF / TSB	220	35	180	65	
6	21PF / LG	230	35	230	65	
7	21PF / SDI	225	45	220	75	
8	25PF / SDI	210	35	160	120	
9	27V 1.3R / SDI	210	35	170	150	
10	27V 1.0R/SDI	210	35	150	180	
11	25V 1.0R/SDI	210	35	150	180	
12	23V 1.3R/SDI	205	35	120	140	

5. Turn the SCREEN VR until “MRCR G B” and “MRWDG” are green and those value are about 100. (The incorrect SCREEN Voltage may result that “MRCR G B” and “MRWDG” should be red)

4-6 E²PROM (IC902) Replacement

1. When IC902 is replaced, all adjustment data revert to the initial values.
   So, all adjustment values when servicing should be readjusted.
2. After IC902 is replaced, connect the AC power supply cord.
3. Turn the power switch ON.
4. In stand-by, warm up the TV for at least 10 seconds.
5. Power on the TV.

4-7 White Balance Adjustment

■ Equipment : Color-Analyzer (CA-100)
■ Input Signal : Pattern signal (Toshiba pattern)

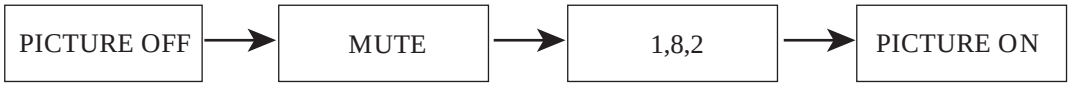
1. Select STANDARD from the menu.
2. Input an 100% White pattern.
3. Enter the “Service Mode”. (Refer to “4-8 Service Mode”)
4. Warm up the TV set at least for 30 minutes.
5. Input a Toshiba pattern signal.
6. Enter the “Video Adjust1”.
   - Adjust “Sub Contrast” so that Y (luminance) becomes 65 ft ± 3.
   - Use “Red Drive” and “ Blue Drive” to adjust High-Light (x : 275, y : 265)
   - Adjust “Sub Bright” so that Y (luminance) becomes 1.2ft ± 0.3.
   - Use “Red Cutoff” and “Blue Cutoff” to adjust Low-Light (x : 275, y : 265).
7. Adjust CA-100 so that the final adjustment value can be fixed.
8. Use the Channel Up / Down (▲ / ▼) buttons to move the cursor on the adjustment modes.
9. Use the Volume + / - buttons to change the adjustment value.

4-8 Factory Adjustment

4-8-1 Service Mode

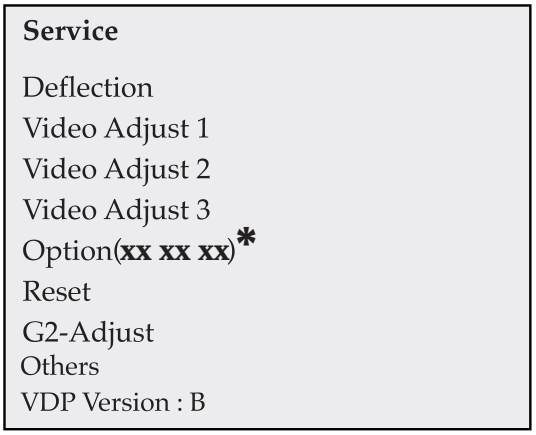
1. To enter the "Service Mode", Press the remote-control keys in this sequence :

   - If you do not have Factory remote-control



   - If you have Factory remote-control

2. After the Service Mode is entered, the initial screen is as shown in the figure below.



* These hexa digits are check sum value which depends on the MICOM version.
  If check sum value is changed, the value of E^2PROM Data newly initialed.

3. Use the Channel Up / Down buttons to move the cursor in the adjustment parameters.

   Note :

   - When CRT, CRT PCB, FBT, E^2PROM (sometimes MICOM) is replaced, the adjustment values should be controlled.

   - After the Service adjustment is completed, Do not select "Reset" in the service mode menu. (After above procedure is done, power is on initially and the "Plug and Play" will be operated.)

4-8-2 Deflection (Memory Data)

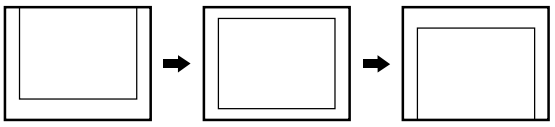
- SIM408A USA, LATIN FACTORY (VDP IC VDP3108B)

4-8-2(A) GEOMETRIC ADJUSTMENT VALUE

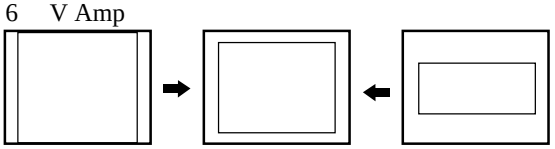
INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT	21" STEREO	25" STEREO
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8	CL21A8W7X	CL25M6P CL25M6W
DEFLECTION	INIT									
H Bow	0	FIX	0	0	0	0	0	0	0	0
H Angle	0	FIX	0	0	0	0	0	0	0	0
H Dscc	0	FIX	3	3	3	3	3	3	3	3
V SHIFT	-40	Control	-27	-24	-18	-18	-40	-35	-40	-50
V AMP	5	Control	-50	-41	18	18	5	20	-20	-15
V SLOPE	-2	Control	-7	-4	-4	-4	-2	-4	-6	-2
V SC	-7	FIX	0	-13	-13	-13	-13	-13	-5	-6
H EW	64	Control	10	-37	64(FIX)	64(FIX)	64(FIX)	64(FIX)	-5	10
H TRAPEZIUM	-20	Control	-82	-48	-20(FIX)	-20(FIX)	-20(FIX)	-20(FIX)	-20	-20
H PARABOLA	-13	Control	-89	-44	-13(FIX)	-13(FIX)	-13(FIX)	-13(FIX)	20	-60
H SYMMETRY	13	FIX	13	13	13	13	13	13	13	13
H CORNER	15	Control	0	69	69(FIX)	69(FIX)	69(FIX)	69(FIX)	40	40
H SHIFT	4	Control	0	8	13	13	4	13	-24	-27
PIP CONTRAST		FIX	0	0	0	0	0	0		7
PIP TINT		FIX	0	0	0	0	0	0		0
PIP PAL V.POS		FIX	12	12	12	12	12	12		10
PIP NTSC V.POS		FIX	12	12	12	12	12	12		10
PIP H.POS		FIX	12	12	12	12	12	12		15

4-8-2(B) SCREEN CHANGE (I2C BUS GEOMETRIC ADJUSTMENT)

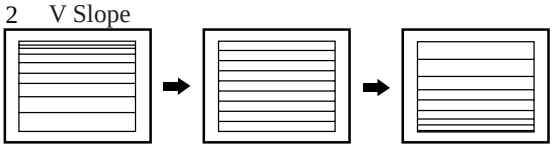
1 V Shift



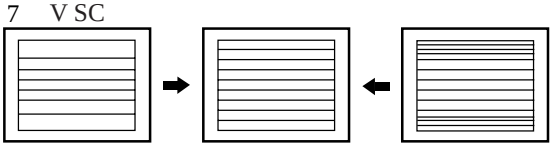
6 V Amp



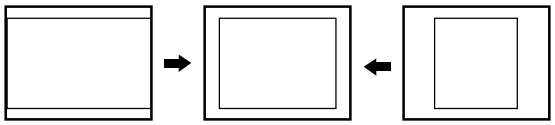
2 V Slope



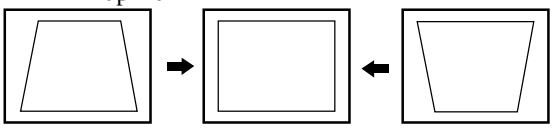
7 V SC



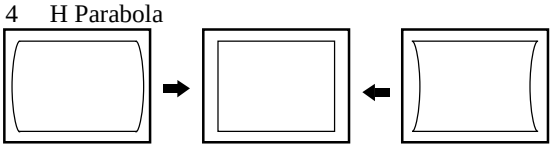
3 H EW



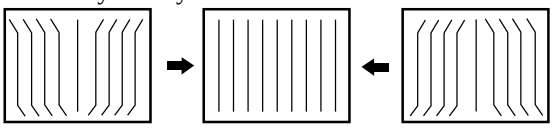
8 H Trapizium



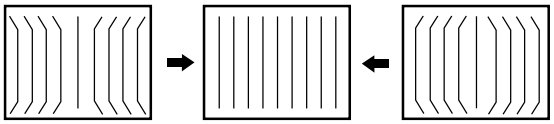
4 H Parabola



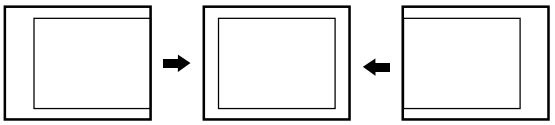
9 H Symmetry



5 H Corner



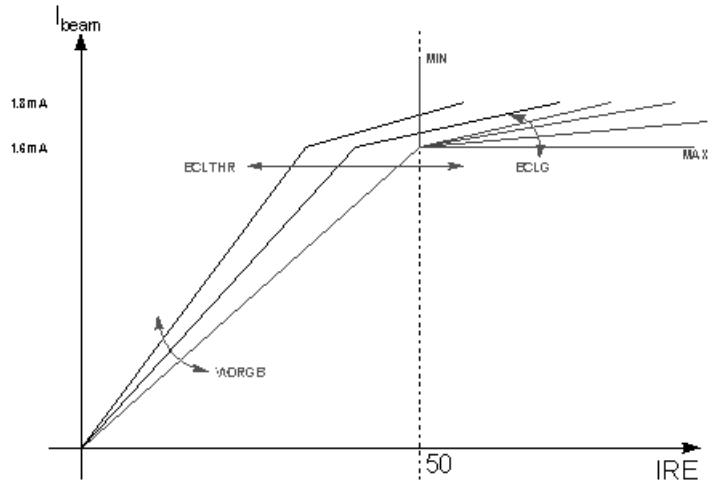
10 H Shift



4-8-2(C) VIDEO ADJUST 1

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT	21" STEREO	25" STEREO
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8	CL21S8W7X	CL25M6P CL25M6W
VIDEO ADJUST1	INIT									
RED CUT OFF	127	Control	127	127	127	127	127	127	127	127
GREEN CUT OFF	127	FIX	127	127	127	127	127	127	127	127
BLUE CUT OFF	127	Control	127	127	127	127	127	127	127	127
RED DRIVE	127	Control	150	127	127	127	127	127	127	127
GREEN DRIVE	127	FIX	127	127	127	127	127	127	127	127
BLUE DRIVE	127	Control	170	127	127	127	127	127	127	127
SUB BRIGHT	110	Control	100	110	100	100	114	110	100	110
SUB CONTRAST	52	Control	52	52	52	52	52	52	52	52
SUB COLOR	27	FIX	50	50	50	50	50	67	60	60
SUB TINT	30	FIX	70	70	70	70	30	15	30	30
BCL THRESHOLD	62	FIX	60	54	58	58	70	40	62	67
BCLGAIN	8	FIX	8	8	8	8	8	8	9	9
BCL TIME	13	FIX	10	10	10	10	10	13	5	5
DVD SUB TINT	90	FIX	100	100	100	100	100	120	25	25
N. YC DELAY	0	FIX	3	3	3	3	3	4	4	4

Note 1. Beam Control Limit Characteristic



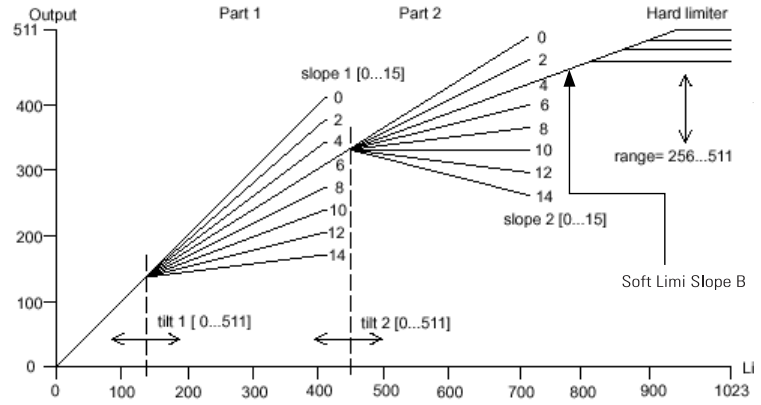
4-8-2(D) VIDEO 2 ADJUST

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT	21" STEREO	25" STEREO
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8	CL21S8W7X	CL25M6P CL25M6W
VIDEO ADJUST2	INIT									
B STRETCH-BTHR	50	FIX	50	50	50	50	50	50	50	50
B DTRETCH-BTLT	8	FIX	8	8	8	8	8	8	8	8
B STERTCH-BAM	4	FIX	4	4	4	4	4	4	4	4
CORING	31	FIX	31	31	31	31	31	31	31	31
NTSC COMB FILTER	1	FIX	1	1	1	1	1	1	3	3
RGB BRIGHT	0	FIX	0	0	0	0	0	0	0	0
RG B CONTRAST	0	FIX	0	0	0	0	0	0	0	0
EHT TIME	0	FIX	0	0	0	0	0	0	8	8
EHT VERTICAL		FIX	60	60	60	60	60	60	60	60
DTI CORING		FIX	0	0	0	0	0	0	0	0
DTI GAIN		FIX	1	1	1	1	1	1	1	1
DTI BAND		FIX	1	1	1	1	1	1	1	1
EHT OFFSET		FIX	0	0	0	0	0	0	0	0
EHT HORIZONTAL		FIX	0	0	0	0	0	0	0	0

4-8-2(E) VIDEO 3 ADJUST

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT	21" STEREO	25" STEREO
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8	CL21S8W7X	CL25M6W CL25M6P
VIDEO ADJUST3	INIT									
PEAK WHITE LIMLT	255	FIX	255	255	255	255	255	255	255	255
SOFT LIMIT SLOPE B	4	FIX	4	4	4	4	4	4	4	4
HARD LIMIT	255	FIX	255	255	255	255	255	255	255	180
MODULATION ON/OFF	0	FIX	0	0	0	0	0	0	0	0
A TILT POINT	0	FIX	0	0	0	0	0	0	0	0
B TILT POINT	0	FIX	114	114	114	114	114	114	114	114
GAIN 1 (VIDEO)		FIX	11	11	11	11	11	11	11	11
DELAY 1 (VIDEO)		FIX	3	3	3	3	3	3	3	3
PEAK VIDEO REF		FIX	0	0	0	0	0	0	0	0
PEAK VIDEO GAIN		FIX	0	0	0	0	0	0	0	0
LIMIT VALUE		FIX	74	74	74	74	74	74	74	74
VELOCITY DELAY		FIX	7	7	7	7	7	7	7	7
VELOCITY CORING		FIX	10	10	10	10	10	10	10	10
ACC-REF	20	FIX	20	20	20	20	20	20	20	20
ACCR	21	FIX	21	21	21	21	21	21	21	21

Note 2. Soft Limit & Hard Limit Characteristics



✷ *"Soft Limit" is that Limitting the peak white without feed-back, but "Peak Limit" is that with feed-back for white peak level*

4-8-2(F) OTHERS

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT	21" STEREO	25" STEREO
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8	CL21S8W7X	CL25M6W CL25M6P
OTHERS	INIT									
VSU	108	FIX	108	104	100	100	104	110	100	108
VSU2		FIX	0	0	0	0	0	0	0	0
H QEW	0	FIX	0	0	0	0	0	0	0	0
H ZOOM Parabola	8	FIX	-22	-35	8	8	8	8	25	-12
H 16:9 Parabola	-10	FIX	8	13	-18	-18	-18	-10	-30	0
TTX H Shift	0	FIX	0	0	0	0	0	0	1	1
PAL V SHIFT		FIX	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	-51	-61
PAL H SHIFT		FIX	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	-19	-22
Melidy Volume	5	FIX	7	7	7	7	7	7	7	7
PIP BRIGHT		FIX								3
PIP COLOR		FIX								9
PIP VSPD		FIX								0
WHITE BALANCE	H	Control	275/295 35FL	275/295 35FL	275/295 35FL	275/295 35FL	275/295 35FL	275/295 95FL	275/265 65FL	275/265 45FL
	L	Control	275/295 1.2FL	275/295 1.2FL	275/295 1.2FL	275/295 1.2FL	275/295 1.2FL	275/295 2.0FL	275/265 1.2FL	275/265 1.4FL

4-8-2(G) G2 ADJUST

INCH		27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT	21" STEREO	25" STEREO
Model		TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8	CL21S8W7X	CL25M6W CL25M6P
G2 Adjust									
MRC R G B	Max	110	110	110	110	110	110	110	110
MRWDG		110	110	110	110	110	110	110	110
IBRM	FIX	210	205	210	210	205	220	225	205
WDRV	FIX	35	35	35	35	35	35	45	45
CDL	FIX	170	120	150	150	115	180	220	150
COL	MIN	150	140	150	150	120	100	75	140

4-8-3 Deflection (Memory Data)

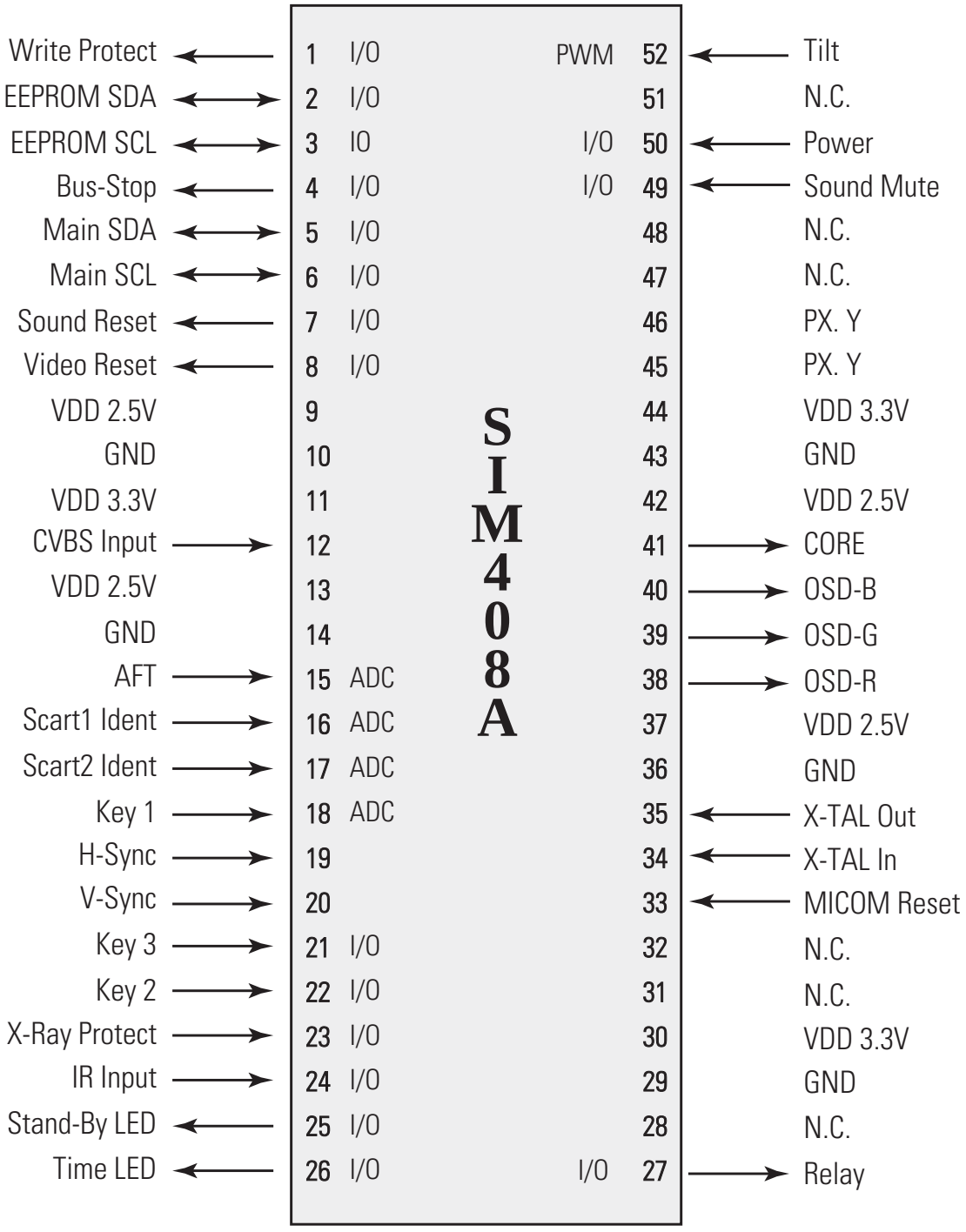
- SIM408A USA, LATIN FACTORY (VDP IC VDP3130Y)

4-8-3(A) GEOMETRIC ADJUSTMENT VALUE

INCH			27V 1.3R	23V 1.3R	25V 1R	27V 1R	20V 1R	15" FLAT	21" STEREO	25" STEREO
Model			TXK2767	CL25D4W	TXK2550 TXK2554 TXK2566 TXK2567 CL663BW	TXK2750 TXK2754	TXK2060 TXK2066 TXK2067	CT-15A8	CL21A8W7X	CL25M6W CL25M6P
DEFLECTION	INIT									
H Bow	0	FIX	0	0	0	0	0	0	0	0
H Angle	0	FIX	0	0	0	0	0	0	0	0
H Dscc	0	FIX	3	3	3	3	3	3	3	3
V SHIFT	-40	Control	-27	-24	-18	-18	-40	-35	-40	-50
V AMP	5	Control	-50	-41	18	18	5	20	-20	-15
V SLOPE	-2	Control	-7	-4	-4	-4	-2	-4	-6	-2
V SC	-7	FIX	0	-13	-13	-13	-13	-13	-5	-6
H EW	64	Control	10	-37	64(FIX)	64(FIX)	64(FIX)	64(FIX)	-5	10
H TRAPEZIUM	-20	Control	-82	-48	-20(FIX)	-20(FIX)	-20(FIX)	-20(FIX)	-20	-20
H PARABOLA	-13	Control	-89	-44	-13(FIX)	-13(FIX)	-13(FIX)	-13(FIX)	20	-60
H SYMMETRY	13	FIX	13	13	13	13	13	13	13	13
H CORNER	15	Control	0	69	69(FIX)	69(FIX)	69(FIX)	69(FIX)	40	40
H SHIFT	4	Control	0	8	13	13	4	13	-24	-27
PIP CONTRAST		FIX	0	0	0	0	0		0	7
PIP TINT		FIX	0	0	0	0	0		0	0
PIP PAL V.POS		FIX	12	12	12	12	12		10	10
PIP NTSC V.POS		FIX	12	12	12	12	12		10	10
PIP H.POS		FIX	12	12	12	12	12		15	15

4-9 MICOM

4-9-1 Pin Layout



4-9-2 Pin Assignment Specification

PIN NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	DESCRIPTION
1	I/O	Write Protect	Out	Low	EEPROM Write Protection
2	I/O	ROM SDA	I/O		EEPROM Serial Data Line
3	I/O	ROM SCL	I/O		EEPROM Serial Clock Line
4	I/O	Bus Stop	In	Low	Disable Micom IIC
5	I/O	Main SDA	I/O		Peripheral IC Serial Data Line
6	I/O	Main SCL	I/O	Low	Peripheral IC Serial Clock Line
7	I/O	Sound Reset	Out	Low	MSP IC Initial Control
8	I/O	Video Reset	Out		VDP IC Initial Control
9	Vdd	VDD 2.5V			
10	GND				
11	Vdd	VDD 3.3V			
12	CVBS	CVBS Input	In		TTX CVBS Input
13	Vdd	VDD 2.5V			Analog B+
14	GND				Analog Ground
15	ADC	AFT	In		Auto Fine Tuning Control
16	ADC	SC1-ID	In		Scart1 Ident
17	ADC	SC2-ID	In		Scart2 Ident
18	ADC	Key1	In		Key1 Input
19	HS	H-Sync	In		Horizontal Sync Input
20	VS	V-Sync	In		Vertical Sync Input
21	I/O	Key3	In		Key3 Input
22	I/O	Key2	In		Key2 Input
23	I/O	X-Ray	In		X-Ray Protection
24	I/O	IR-In	In		Remocon Signal Input
25	I/O	STD-LED	Out		LED Drive Output(Red)
26	I/O	TIM-LED	Out		LED Drive Output(Green)

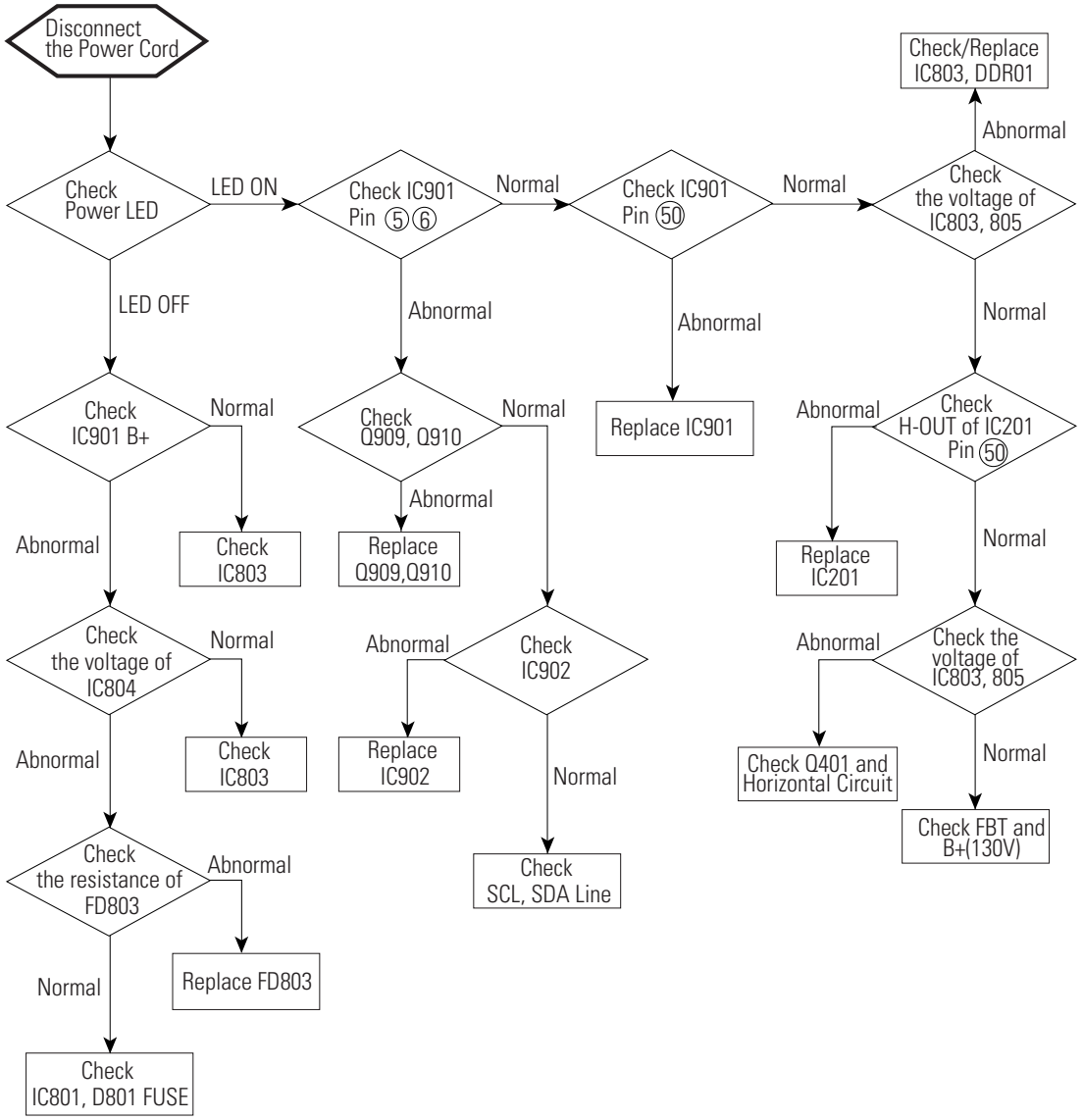
4-9-2 Pin Assignment Specification (Continued)

PIN NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	DESCRIPTION
27	I/O	Relay	Out	Low	Activate Degaussssing Coil
28	N.C.				Not Used (Programmed Gound Level)
29	GND				Analog Ground
30	Vdd	VDD 3.3V			Not Used (Programmed Gound Level)
31	N.C.				Not Used (Programmed Gound Level)
32	N.C.				Micom Hardware Reset
33	Reset	Reset	In	Low	Crystal Oscillation Input
34	X-In	X-TAL In	In	6MHz	Crystal Oscillation Output
35	X-Out	X-TAL Out	Out	6MHz	Analog Ground
36	GND				Analog B+
37	Vdd	VDD 2.5V			OSD/TTX Output (Red)
38	R	OSD-R	Out		OSD/TTX Output (Green)
39	G	OSD-G	Out		OSD/TTX Output (Blue)
40	B	OSD-B	Out		Fast Blank/Half Contrast Output
41	COR	CORE	Out		
42	Vdd	VDD 2.5V			
43	GND				
44	Vdd	VDD 3.3V			
45	I/O	PX.Y	In		When The Caption Function Adopted, Used.
46	I/O	PX.Y	Out		
47	N.C.				Not Used (Programmed Gound Level)
48	N.C.				
49	I/O	S-Mute	Out	High	Sound Amp Mute
50	I/O	Power	Out	Low	Picture On/Off Control
51	N.C.				Not Used (Programmed Gound Level)
52	I/O				

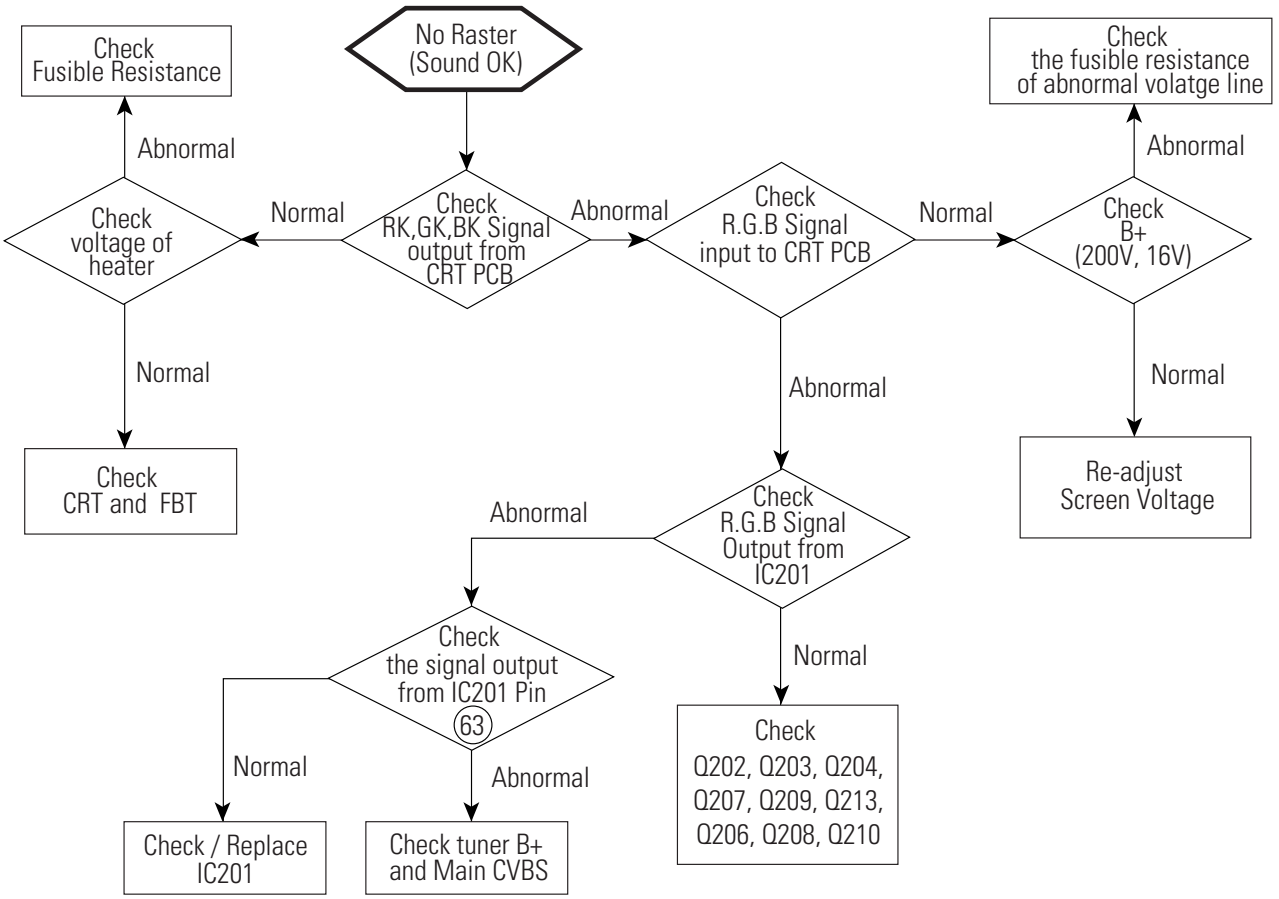
MEMO

5. Troubleshooting

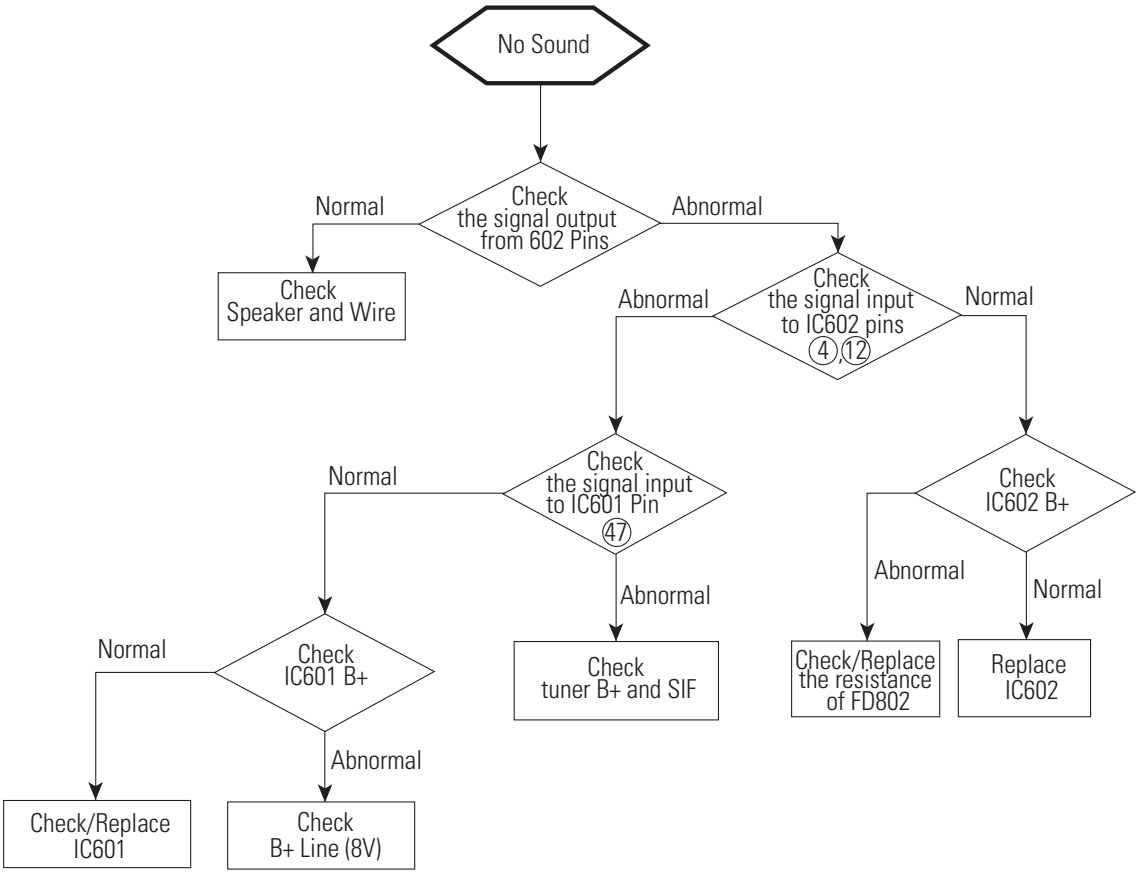
5-1 No Power



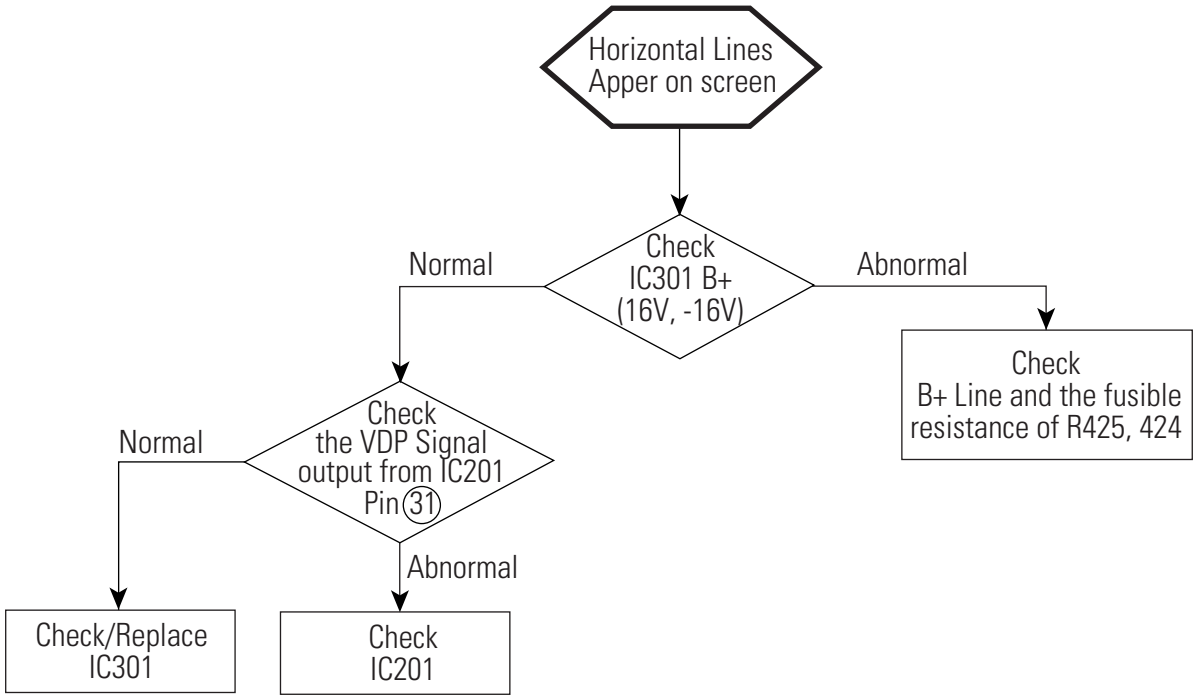
5-2 No Raster (Sound OK)



5-3 No Sound

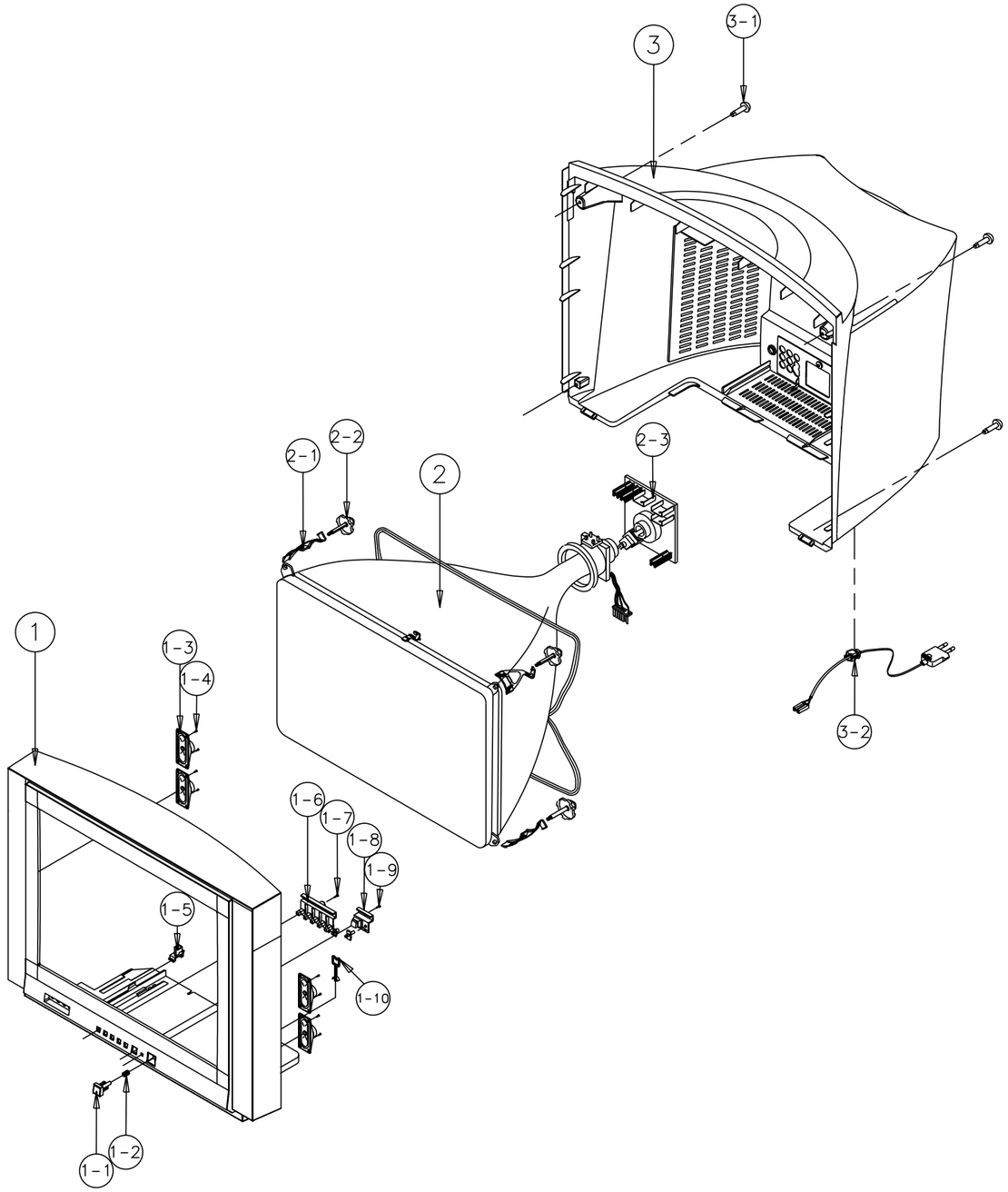

No Sound
Check the signal output from 602 Pins
Normal
Abnormal
Check Speaker and Wire
Check the signal input to IC602 pins ④,⑫
Abnormal
Normal
Check the signal input to IC601 Pin ㊼
Normal
Abnormal
Check IC602 B+
Abnormal
Normal
Check IC601 B+
Normal
Abnormal
Check tuner B+ and SIF
Check/Replace the resistance of FD802
Replace IC602
Check/Replace IC601
Check B+ Line (8V)

5-4 Horizontal Lines Appear on screen



6. Exploded View & Parts List

6-1 TXM2091FX/XAA



No	Code No	Description;Specification	Q'ty	Remark
1	AA64-02977A	CABINET-FRONT;21A8,HIPS,VO,BLK,DG703P,SE	1	F/C
1-1	AA64-02979A	KNOB-POWER;21A8,ABS,HB,BLK,DG703P	1	KP
1-2	AA61-60003J	SPRING-CS;-,-,SUS304,0.5,OD6,H	1	SPRING
1-3	3001-000274	SPEAKER-GENERAL;5W8OHM100X50MM	2	SPK
1-4	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	8	SPK+CF
1-5	AA61-40113A	STOPPER-PCB;-,ABS,HB,NTR.	1	STOPPE
1-6	AA64-02978A	KNOB-CONTROL;21A8,ABS,HB,BLK,DG703P	1	KC
1-7	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	KC+CF
1-8	AA64-00816B	WINDOW REMOCON;-,21A8,-,PC,V0,VIOLET,-	1	WR
1-9	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	WR+CF
1-10	AA65-30105A	CLAMP-WIRE;NYLON 66N,VO,NTR,15MM	1	CWFCL
2	AA03-00317A	CRT COLOR;A51QDX992X,0MG,1.85MH,18.0MH,2	1	CRT
2-1	AA65-00009B	CLAMP-D,COIL;NYLON 66,V0,-,-,21A8,-	4	CDCOIL
2-2	AA60-10050R	SCREW-ASSY;WC,HH,+M5,L31.5,SWR	4	CRT+CF
2-3	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	1	V999S
3	AA64-00811D	CABINET BACK;21A8,HIPS,-,-,-,V0,BLK,-	1	C/B
3-1	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	4	CB+CF
3-2	AA96-20129A	ASSY-POWER,CORD;-,EP2/YES,H/C300,ME301P,	1	PWR/AC

7. Electrical Parts List

7-1 TXM2091FX/XAA

Loc. No.		Code No.	Description ; Specification	Remark

ASSY CHASSIS

	1	A/CHAS	AA91-01598A	ASSY CHASSIS-KS2A;SPACE
	2	INLA/P	AA64-01230B	INLAY-COVER;D2,D3,PVC-SHEET,T0.4,94V0,-
	2	DRESB	AA65-30018A	CLAMP-WIRE;-,NYLON6.6,-,-,DATL
	2	FBT	AA65-30018A	CLAMP-WIRE;-,NYLON6.6,-,-,DATL
	2	H/S+CW	AA65-30018A	CLAMP-WIRE;-,NYLON6.6,-,-,DATL
	2	ASSY,P	AA94-07046A	ASSY PCB MAIN;TXL2091FX/XAA
	3		0202-000008	SOLDER-WIRE;S63S-D3.0,S63A,D3,63/37
	3		0202-000187	SOLDER-WIREFLUX;-,RS60S,D1.2,6
	3		0204-000442	SOLVENT;CH3-CH5H-CH396%IM-1000
	3		0204-001024	FLUX;DF-96TVS,-,20%,-
⚠	3	D813	0402-000233	DIODE-RECTIFIER;FML-G12S,200V,
⚠	3	D801S	0402-001082	DIODEBRIDGE;RBV406LFB,600V,4A
	3	DH02	0402-001296	DIODE-RECTIFIER;FMP-3FU,1500V,5A,T0-3PF
	3	Q402	0502-001007	TR-POWER;KSC2073-H2,NPN,150V,1
	3	DH01	0502-001136	TR-POWER;KSD5703,NPN,70W,TO-3PF,ST,8-
⚠	3	PC801S	0604-001032	PHOTO-COUPLER;TR,170-260%,300M
	3	IC902	1103-001211	IC-EEPROM;24C16-PC27 C,2048x8Bit,DIP,8P,
	3	IC903	1203-001944	IC-POSI.FIXEDREG.78RM33,TO-220,3P,PLAST
⚠	3	IC803	1203-002085	IC-VOLTAGEREGULATOR;78R08,TO-220,4P
	3	IC601	1204-001594	IC-SOUND PROCESSOR;MSP3440G-B6,SDIP,52P,
⚠	3	IC201S	1204-001812	IC-VIDEO PROCESS;VDP3130Y-B2,DIP,64P,760
⚠	3	P802S	1404-000208	POSISTOR;PTH631D02BF7ROM140TDE
⚠	3	NT802S	1404-001045	THERMISTOR NTC;4.7OHM,15%,2900K,35.0MW,T
	3	C428	2201-000406	C-CERAMIC,HIC;CK45(T)B2KV271-K
⚠	3	CY802S	2201-000446	C-CERAMIC,AC;CK45PE400V332-M(T
⚠	3	CR403S	2301-001067	C-FILM,MPPF;82NF,5%,400V,TP,19
	3	C407	2301-001338	C-FILM,MPE,PPF0.68nF,5%,1.6kV,TP,28x7x1
⚠	3	CR402S	2301-001467	C-FILM,PPF;3.9NF,3%,1.6KV,TP,29X8.X15MM,
⚠	3	CR401S	2301-001468	C-FILM,PPF;3.3NF,3%,1.6KV,TP,29X13.5X8MM
⚠	3	CX801S	2306-000318	C-FILM,MPPF;220NF,20%,250V,-,2
⚠	3	CX802S	2306-000318	C-FILM,MPPF;220NF,20%,250V,-,2
⚠	3	CR405S	2306-000350	C-FILM,MPPF;270nF,5%,400V,BK,26x18.5x10,
	3	C806	2401-001387	C-AL;470uF,20%,250V,GP,BK,25.4x40,1
	3	C815	2401-003026	C-AL;330UF,20%,200V,GP,ST,22X3
⚠	3	SW906	3404-001004	SWITCH TACT;12V,50MA,160GF8.4X22.7MM
⚠	3	RL801S	3501-001040	RELAYPOWER;12VDC,500MW,10A,1FO
⚠	3	FP801S	3601-001012	FUSE-FERRULE;250V,4A,SLOW-BLOW
⚠	3	V999S	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-
	3	CN602	3711-002644	POST-HEADER;67094-005(AUTO)
	3	CN701	3711-002647	POST-HEADER;67094-008(AUTO)
	3	CN601	3711-003043	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,STRAIGH
	3	JA701	3722-001333	JACK-RCA9P,3.2mm,NI,BLK
	3	JA702	3722-001423	JACK-RCA;3P+S1P,3.4mm,NI,BLK,-
	3	IC901	AA09-00243A	IC MICOM;SIM-408A3,CL-21A8,52P,-0.3~+7,
⚠	3	T801S	AA26-00044C	TRANS SWITCHING,CODE-NO,CT-21A8,AC90-260
⚠	3	T444S	AA26-00057A	TRANS-FBT;-,FUH-29A001B(S),25/29,130
⚠	3	T401	AA26-50001M	HORIZ.DRIVE;-,80MH,520UH,4UH,E
	3	L808	AA27-00098A	COIL CHOKE;-,-,24uH,10%,-,0.1,3.0A,DR10X
⚠	3	LR401S	AA27-00146A	COIL LINEARITY;,68UH,L-81 OWA 12X15,2UEW
⚠	3	CR404S	AA27-00147A	COIL HORIZ. WIDTH;,170UH,BK,54T+2-2
⚠	3	LX801S	AA29-30002N	FILTER-LINE NOISE;-,16MH,1.5A,AC100~260V
⚠	3	LX802S	AA29-30002N	FILTER-LINE NOISE;-,16MH,1.5A,AC100~260V
	3	CN501B	AA39-00172A	LEAD-CONNECTOR,ASSY;DREAM,1007#26,UL/CSA
	4	CN502B	AA39-20053A	LEAD-CONNECTOR,ASSY;YBNH025-05,S,5P,400m
	4	CN501B	AA39-20054B	LEAD-CONNECTOR,ASSY;YBNH025-06,S,6P,500m
	3	GT101	AA39-20010B	LEAD-CONNECTOR,ASSY;-,YFH800-01,500MM,1P
	3	GT407	AA39-20010H	LEAD-CONNECTOR,ASSY;,YFH800-01,S,1P,300,
⚠	3	TU01S	AA40-00074A	TUNER;TCPN3081PA09A(B),NTSC,181CH,45
	3	RM901	AA59-60001U	MODULE-REMOCON;-,ORC-50VF,38KH
	3	L/PQS	AA68-01018A	LABEL-PQS,-,50mmX,13,-,WHITE,-
⚠	3	IC804	AA96-00243C	ASSY H/S;-,REGULATOR,AA62-00045A,KA7806
	4		0205-000129	GREASE-SILICON;SC102,JAPAN
	4		1203-000284	IC-POSI.FIXEDREG.;7806,TO-220,
	4		6003-000335	SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR
	4		AA62-00045A	HEAT SINK-PS;-,-,T1.0,-,-,DREAM,-,-,-,-,
	3	DDR01	AA96-00469F	ASSY H/S;-,REGULATOR,AA62-00053B,D10U60
	4		0205-000129	GREASE-SILICON;SC102,JAPAN
	4		0402-001358	DIODE-RECTIFIER;SDS10U60S,600V,10A,TO-22
	4		0402-001375	DIODE-RECTIFIER;FFPF10U20S,200V,10A,TO-2
	4		1203-001006	IC-VOLTAGEREGULATOR78R05,TO-220F,4P
	4		6003-000334	SCREW-TAPTITE;RH,+,2S,M3,L6,ZP
	4		AA62-00053B	HEAT SINK;DREAM (D2,D3),AL ,T1.0,147,50,
	3	LD901	AA96-00555A	ASSY LED GUIDE;-,-,UEX-LD-030,GREEN
	3	IC501	AA96-00582A	ASSY H/S;-,CRT,AA62-00096A,STV5109,KS1A
	4		0205-000129	GREASE-SILICON;SC102,JAPAN
	4		1201-001687	IC-VIDEO AMP;STV5109,ZIP,15P,-,SIGLE,50d
	4		6003-000335	SCREW-TAPTITE;RH,+,2S,M3,L8,ZPC(YEL),SWR
	4		AA62-00096A	HEAT SINK;KS2A,AL5052,T1.0,W36.0,H35.0,S
⚠	3	PWR/AC	AA96-20129A	ASSY-POWER,CORD;-,EP2/YES,H/C300,ME301P,
	4		AA39-10007Y	POWER-CORD;-,EP2/YES,SPT-2 18AWGx2C,2.4m
	4		AA61-20284A	HOLDER P CORD;PP,VO,BLK,KE-002
⚠	3	IC801S	AA96-50373F	ASSY H/S;-,PWM,AA62-30181K,KA3A1265RD
	4		0205-000129	GREASE-SILICON;SC102,JAPAN
	4		6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW
	4		AA02-00007A	MICA;DPM-04,MICA,22x29x0.15mm
	4		AA13-00101A	IC HYBRID;KA3A1265RD,CN5039,5Pin,-50to12
	4		AA61-10386A	BRACKET-IC;-,-,SECC100,T1.0,-,KA2S0680,
	4		AA62-30181K	HEATSINK-ES;-,AL6063EXTR.,2,WHT,40MM,-
	3	IC602	AA96-50398B	ASSY-H/S;-,-,AA62-30182E,TDA7266S,-
	4		0205-000129	GREASE-SILICON;SC102,JAPAN
	4		1201-001308	IC-POWERAMP;7266,ZIP,15P,-,DUAL,26dB,PL
	4		6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW
	4		AA62-30182E	HEAT-SINK,ES;-,A6063 EXTR,-,WHT,-,-,-,40
	3	IC301	AA96-50406A	ASSY-H/S;LA62-30180K,LA7845
	4		1204-000517	IC-LINEAR;LA7845SIPVERTICALAMP
	4		6003-000333	SCREW-TAPTITE;RH,+,2S,M3,L10,ZPC(YEL),SW
	4		AA62-30180K	HEATSINK-ES;-,A6063EXTR,-,WHT,50/13,-,
	3	ASSY,A	AA97-02203A	ASSY AUTO-MAIN;TXL2091FX/XAA
	4	D201	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D202	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D207	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D208	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D209	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D210	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D212	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D501	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D502	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D503	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D508	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D602	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D604	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
⚠	4	D804	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D908	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	DZ402	0401-000005	DIODE;1N4148,100V,300mA,1V,8nS,TAPING
	4	D407	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1
⚠	4	DR01S	0402-000534	DIODE-RECTIFIER;RG10V,400V,1.5
	4	D413	0402-000537	DIODE-RECTIFIER;RH1A,600V,0.6A,
	4	D401	0402-000540	DIODE-RECTIFIER;RU20A,600V,1.5
	4	D402	0402-000540	DIODE-RECTIFIER;RU20A,600V,1.5
	4	D301	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
	4	D411	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
⚠	4	D803	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.
⚠	4	D801	0402-001111	DIODE-RECTIFIER;1N5397GP,600V,1.5A,DO-2
	4	D403	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
	4	D406	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
	4	D504	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
⚠	4	D808	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
⚠	4	D810	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
⚠	4	D811	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
	4	D907	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41
	4	DZ201	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
	4	DZ203	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500
	4	DZ204	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500

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4 DZ601	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ602	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ802	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ806	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ901	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ902	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ903	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ904	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ905	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ906	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ907	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ908	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
4 DZ306	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,	
4 DZ804	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,	
4 DZ808	0403-000719	DIODE-ZENER;MTZJ7.5B,7.5V,7.07-7.45V,500	
4 DZ701	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
4 DZ702	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
4 DZ803	0403-001167	DIODE-ZENER;MTZJ30D,30V,29.02-30.51V,500	
4 DZ509	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D	
4 DZ305	0403-001221	DIODE-ZENER;UZ39BSB,35.36-37.19V,500MW,D	
4 DZ202	0403-001321	DIODE-ZENER;MTZJ6.8C,6.66-7.01V,500mW,DO	
⚠ 4 DZR01S	0403-001321	DIODE-ZENER;MTZJ6.8C,6.66-7.01V,500mW,DO	
4 DZ801	0403-001322	DIODE-ZENER;MTZJ8.2B,7.78-8.19V,500mW,DO	
4 DZ501	0403-001325	DIODE-ZENER;MTZJ15C,14.35-15.09V,500mW,D	
4 DZ301	0403-001328	DIODE-ZENER;MTZJ22A,20.15-21.20V,500mW,D	
4 DZ302	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,	
4 DZ303	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,	
4 DZ304	0403-001329	DIODE-ZENER;MTZJ24B,22.61-23.77V,500mW,	
4 D203	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 D204	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 D205	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 D206	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 D901	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 D902	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 D903	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 D904	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 D905	0404-000156	DIODE-SCHOTTKY;RB441Q,10V,100MA,DO-34,TP	
4 Q206	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM	
4 Q208	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM	
4 Q210	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM	
⚠ 4 QR01S	0501-000283	TRANSISTOR;KSA539-Y(TAPG)/YTAM	
4 Q802	0501-000369	TRANSISTOR;KSC2331-Y(TAPG)	
4 Q201	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q202	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q203	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q204	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q207	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q209	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q211	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q212	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q213	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q222	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q901	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q902	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q903	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q904	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q905	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q906	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q907	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q908	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q911	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
⚠ 4 QR02S	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
4 Q909	0505-000109	FET-SILICON;2N7000,N,60V,200mA,5ohm,400	
4 Q910	0505-000109	FET-SILICON;2N7000,N,60V,200mA,5ohm,400	
4 DZ805	1203-001217	IC-POST,ADJUSTREG;431,T0-92,3P,4.58MIL,P	
4 IC904	1203-001943	IC-VOL.DETECTOR;7025,T0-92,3P,PLASTIC	
⚠ 4 VP801S	1405-000152	VARISTOR;560V,2500A,14X8.5MM,T	
⚠ 4 VX801S	1405-000152	VARISTOR;560V,2500A,14X8.5MM,T	
4 R223	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,	
4 R224	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,	
4 R225	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,	
4 R226	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,	
4 R264	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,	
4 R265	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,	
4 R267	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,	
4 R934	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,	
4 R245	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,	

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4 R250	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,	
4 R255	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,	
4 R916	2001-000007	R-CARBON;3KOHM,5%,1/8W,AA,TP,1	
4 R214	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
4 R918	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,	
⚠ 4 RR03S	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,	
4 R303	2001-000016	R-CARBON(S);1OHM,5%,1/2W,AA,TP	
4 R412	2001-000020	R-CARBON(S);22OHM,5%,1/2W,AA,T	
4 R527	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AB,	
4 R307	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,	
4 R825	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,	
4 R209	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP	
4 R914	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP	
4 R103	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R201	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R203	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R204	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R246	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R251	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R256	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R609	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R610	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R611	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R612	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R613	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R619	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R706	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R707	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R708	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R723	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R730	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R731	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R902	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R907	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R909	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R940	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R941	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R942	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R944A	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
4 R202	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R205	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R206	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R211	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R260	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R261	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R262	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R268	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R309	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R310	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R601	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R602	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R606	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R620	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R627	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R715	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R716	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R935	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
⚠ 4 RR07S	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
⚠ 4 RR10S	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	
4 R241	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,	
4 R208	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,	
4 R243	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,	
4 R509	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,	
4 R511	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,	
4 R517	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,	
4 C906	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 D505	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 D506	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 D507	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 J909	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R222	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R231	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R232	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R233	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R234	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R235	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R252	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	

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4 R603	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R607	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R608	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R910	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R912	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R924	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R929	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R930	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R943	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
⚠ 4 RR08S	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R207	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP	
4 R833	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP	
4 R236	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	
4 R237	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	
4 R238	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	
4 R249	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	
4 R254	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	
4 R259	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	
4 R932	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	
4 R946	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	
4 R215	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,	
4 R915	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1	
4 R504	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP	
4 R505	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP	
4 R506	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP	
4 R824	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,	
4 R213	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R901	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R903	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R904	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R905	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R906	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R908	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R921	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R926	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R937	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R947	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R948	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R952	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
4 R953	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
⚠ 4 RR02S	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,	
4 R614	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R615	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R616	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R617	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R812	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R831	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R919	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R920	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R931	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R933	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
⚠ 4 RR09S	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R816	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R105	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,	
4 R263	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,	
4 R210	2001-000812	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R927	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,	
4 R106	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R917	2001-000878	R-CARBON;6.2KOHM,5%,1/8W,AA,TP	
4 R621	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP	
4 R622	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP	
4 R501	2001-000904	R-CARBON;620OHM,5%,1/8W,AA,TP,1.8X3.2MM	
4 R502	2001-000904	R-CARBON;620OHM,5%,1/8W,AA,TP,1.8X3.2MM	
4 R503	2001-000904	R-CARBON;620OHM,5%,1/8W,AA,TP,1.8X3.2MM	
4 R102	2001-000924	R-CARBON;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R923	2001-000924	R-CARBON;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R709	2001-000938	R-CARBON ;68ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R913	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP	
4 R248	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R253	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R258	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R701	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R702	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R703	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R704	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R705	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R711	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	

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4 R712	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R719	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R720	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R721	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
4 R722	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1	
⚠ 4 RR06S	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
4 L905	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,	
4 R925	2001-001035	R-CARBON ;91ohm,5%,1/8W,AA,TP,1.8x3.2mm	
4 R308	2001-001062	R-CARBON(S);10MOHM,5%,1/2W,AA,	
4 R524	2001-001062	R-CARBON(S);10MOHM,5%,1/2W,AA,	
4 R826	2001-001072	R-CARBON(S);12ohm,5%,1/2W,AA,TP,2.4x6.4m	
4 R811	2001-001078	R-CARBON(S);15KOHM,5%,1/2W,AA,	
4 R818	2001-001113	R-CARBON(S);270KOHM,5%,1/2W,AA	
4 R239	2001-001114	R-CARBON(S);2700HM,5%,1/2W,AA,	
4 R805	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA	
4 R806	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA	
4 R813	2001-001153	R-CARBON(S);47OHM,5%,1/2W,AA,T	
4 R832	2001-001153	R-CARBON(S);47OHM,5%,1/2W,AA,T	
4 R939	2001-001153	R-CARBON(S);47OHM,5%,1/2W,AA,T	
4 R414	2001-001165	R-CARBON(S);56OHM,5%,1/2W,AB,T	
4 R228	2001-001170	R-CARBON(S);6.8OHM,5%,1/2W,AB,	
4 R810	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,	
4 R409	2001-001187	R-CARBON(S);75OHM,5%,1/2W,AA,T	
4 R410	2001-001192	R-CARBON(S);820OHM,5%,1/2W,AB,	
4 R507	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,	
4 R510	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,	
4 R513	2001-001194	R-CARBON(S);82KOHM,5%,1/2W,AA,	
4 R809	2001-001410	R-CARBON;RD1/2T(S)430-J43R	
4 R512	2002-001008	R-COMPOSITION;1.8KOHM,10%1/2W,AA,TP,3.7	
4 R515	2002-001008	R-COMPOSITION;1.8KOHM,10%1/2W,AA,TP,3.7	
4 R518	2002-001008	R-COMPOSITION;1.8KOHM,10%1/2W,AA,TP,3.7	
4 R521	2002-001009	R-COMPOSITION;2.7KOHM,10%,1/2W,AA,TP,3.7	
⚠ 4 RP801S	2002-001010	R-COMPOSITION;1.8MOHM,5%,1/2W,AA,TP,3.7X	
⚠ 4 RY802S	2002-001013	R-COMPOSITION;4.7MOhm,5%,1/2W,AA,TP,3.7X	
4 R426	2003-000540	R-METALOXIDE(S);1KOHM,5%,2W,AD	
4 R434	2003-000664	R-METAL OXIDE(S);330HM,5%,2W,AF,TP,4X12M	
4 R807	2003-000746	R-METALOXIDE(S);56OHM,5%,2W,AD	
4 R808	2003-000746	R-METALOXIDE(S);56OHM,5%,2W,AD	
4 R802	2003-001025	R-METALOXIDE(S);15KOHM,5%,2W,A	
4 R803	2003-001025	R-METALOXIDE(S);15KOHM,5%,2W,A	
4 R804	2003-001025	R-METALOXIDE(S);15KOHM,5%,2W,A	
4 R829	2003-001036	R-METALOXIDE(S);3.3OHM,5%,2W,A	
4 R403	2003-002037	R-METAL OXIDE(S);270OHM,5%,2W,AF,TP,3.9X	
4 R436	2003-002151	R-METALOXIDE;18KOHM,5%,2W,AG,TP,6X16	
4 R305	2003-002182	R-METALOXIDE(S)470ohm,5%,2W,AG,TP,3x	
4 R306	2003-002182	R-METALOXIDE(S)470ohm,5%,2W,AG,TP,3x	
4 R401	2003-002186	R-METALOXIDE(S);22Kohm,5%,2W,AG,TP,3x	
4 R402	2003-002186	R-METALOXIDE(S);22Kohm,5%,2W,AG,TP,3x	
4 R835	2003-002211	R-METALOXIDE(S)91Kohm,5%,2W,AG,TP,3x	
4 R836	2003-002211	R-METALOXIDE(S)91Kohm,5%,2W,AG,TP,3x	
4 R212	2004-000218	R-METAL;10KOHM,1%,1/8,1.8X3.2M	
4 R313	2004-001137	R-METAL;6.8KOHM,1%,1/8W,AA,TP,1.8*3.2M	
4 R821	2004-001377	R-METAL(S);120KOHM,1%,1/2W,AA,TP,2.4X6.4	
4 R301	2004-001397	R-METAL(S);4.7KOHM,1%,1/2W,AA,	
4 R429	2004-001397	R-METAL(S);4.7KOHM,1%,1/2W,AA,	
4 R432	2004-001397	R-METAL(S);4.7KOHM,1%,1/2W,AA,	
⚠ 4 RR05S	2004-001406	R-METAL(S);8.2KOHM,1%,1/2W,AA,	
4 R819	2004-001983	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4	
4 R302	2004-001984	R-METAL;26.7KOHM,1%,1/2W,AA,TP	
4 R314	2004-001986	R-METAL;35.7KOHM,1%,1/2W,AA,TP	
4 R315	2004-004970	R-METAL(S);62Kohm,1%,1/8W,AA,TP,1.8x3.2m	
⚠ 4 RR04S	2004-004970	R-METAL(S);62Kohm,1%,1/8W,AA,TP,1.8x3.2m	
4 R522	2008-000206	R-FUSIBLE(S);1OHM,5%,1/2W,AF,T	
⚠ 4 RR01S	2008-000264	R-FUSIBLE(S);1OHM,5%,1W,AF,TP,	
4 R304	2008-000266	R-FUSIBLE(S);1OHM,5%,2W,AF,TP,	
4 R828	2008-000266	R-FUSIBLE(S);1OHM,5%,2W,AF,TP,	
4 R827	2008-000284	R-FUSIBLE(S);0.1OHM,10%,2W,AF,TP,3.9X10M	
⚠ 4 R405	2008-001018	R-FUSIBLE(S);0.47OHM,10%,2W,AF	
4 R424	2008-001018	R-FUSIBLE(S);0.47OHM,10%,2W,AF	
4 R425	2008-001018	R-FUSIBLE(S);0.47OHM,10%,2W,AF	
4 R433	2008-001127	R-FUSIBLE(S);6.8Kohm,5%,1W,AF,TP,3.9x10m	
4 R523	2008-001129	R-FUSIBLE(S),1.5OHM,5%1/2W,AF,TP,2.5	
4 C424	2201-000132	C-CERAMIC,DISC;100PF,10%,500V,Y5P,6X3MM,	
4 C656	2201-000304	C-CERAMIC,DISC0.001nF,0.25pF,50V,NP0,TP	
4 C657	2201-000304	C-CERAMIC,DISC0.001nF,0.25pF,50V,NP0,TP	
4 C804	2201-000332	C-CERAMIC,AC;CK45PTAPGE250V222	
4 C805	2201-000332	C-CERAMIC,AC;CK45PTAPGE250V222	

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4 C401	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,	
4 C403	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,	
4 C421	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,	
⚠ 4 CR01S	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,	
4 C650	2201-000558	C-CERAMIC,DISC;470PF,10%,50V,Y	
4 C817	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,	
4 C819	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,	
4 C822	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,	
4 C843	2201-000681	C-CERAMIC,DISC;82PF,5%,50V,SL,4X3.5MM,5M	
4 C509	2201-000723	C-CERAMIC,DISC;4.7nF,20%,3KV,Y5U,TP,16x5	
4 C910	2201-000980	C-CERAMIC,DISC;30PF,5%,50V,NPO,5.0X3.0,5	
4 C911	2201-000980	C-CERAMIC,DISC;30PF,5%,50V,NPO,5.0X3.0,5	
4 C814	2201-000991	C-CERAMIC,HIC;CK45(T)B2KV561-K	
4 C224	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP,5x3	
4 C225	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP,5x3	
4 C303	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP,5x3	
4 C115	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,	
4 C116	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,	
4 C243	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,	
4 C244	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,	
4 C245	2202-000121	C-CERAMIC,MLC-AXIAL;100PF,10%,	
4 C632	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.	
4 C702	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.	
4 J218	2202-000231	C-CERAMIC,MLC-AXIAL;330PF,10%,50V,Y5P,3.	
4 C647	2202-000286	C-CERAMIC,MLC-AXIAL;56PF,5%,50	
4 C654	2202-000286	C-CERAMIC,MLC-AXIAL;56PF,5%,50	
4 C211	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	
4 C504	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	
4 C505	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	
4 C506	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	
4 C607	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	
4 C608	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	
4 C905	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	
4 C908	2202-000863	C-CERAMIC;CKOAX7R50VT561-KUP050561	
4 C206	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C218	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C219	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C220	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C221	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C222	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C223	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C226	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C232	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C901	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C921	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C960	2202-002037	C-CERAMIC,MLC-AXIAL;100NF,+80-20	
4 C412	2301-000188	C-FILM,PEF;1NF,5%,100V,10.5X12	
4 C821	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM	
4 C811	2301-000254	C-FILM,PEF;39NF,5%,50V,7.5X3.5X6.5MM,5MM	
4 C213	2301-000310	C-FILM,PEF;68NF,5%,50V,8.0X8.5	
4 C242	2301-000310	C-FILM,PEF;68NF,5%,50V,8.0X8.5	
4 C610	2301-000314	C-FILM,PEF;8.2NF,5%,50V,6.5X3.	
4 C611	2301-000314	C-FILM,PEF;8.2NF,5%,50V,6.5X3.	
4 C306	2301-000342	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,	
4 C228	2301-000356	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5m	
4 C803	2301-000356	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5m	
4 C809	2301-000356	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5m	
4 C103	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
4 C105	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
4 C420	2301-001065	C-FILM,MPPF;47NF,55,630V,TP,19	
4 C807	2301-001435	C-FILM,PPF;1.5nF,5%,1.2kV,TP,15x8x12.5mm	
4 C305	2305-000149	C-FILM;CF922N100VT104-J-40/105	
4 C304	2305-000285	C-FILM,MPEF;220NF,5%,100V,-,5M	
4 C408	2305-000382	C-FILM,MPEF;4.7NF,5%,400V,TP,-,5MM.	
4 C233	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
4 C234	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
4 C235	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
4 C236	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
⚠ 4 CR04S	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
4 C205	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C214	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C216	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C308	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C513	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C605	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C620	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C635	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C646	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C823	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C829	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C831	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C837	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C839	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C907	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C914	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C916	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C919	2305-000665	C-FILM;104J, 60V,5MM TAPING	
4 C508	2305-000704	C-M,POLYESTER;CFS922MTAPG250V1	
4 C511	2305-000704	C-M,POLYESTER;CFS922MTAPG250V1	
4 C825	2306-000122	C-FILM,MPPF;100NF,5%,50V,7.3X4	
4 C637	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	
4 C640	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	
4 C641	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	
4 C643	2401-000027	C-AL;4.7UF,20%,50V,GP,5*11MM,5MEA	
4 C816	2401-000262	C-AL;100UF,20%,160V,GP,16X25MM,5MM,	
4 C913	2401-000287	C-AL;100UF,20%,16V,WT,6X11MM,5	
4 C915	2401-000287	C-AL;100UF,20%,16V,WT,6X11MM,5	
4 C904	2401-000302	C-AL;100UF,20%,25V,GP,6X11MM,5	
4 C302	2401-000360	C-AL;100UF,20%,50V,GP,8X11MM,5	
4 C307	2401-000360	C-AL;100UF,20%,50V,GP,8X11MM,5	
4 C920	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	
4 C230	2401-000493	C-AL;10UF,20%,50V,WT,5X11MM,5M	
4 C617	2401-000493	C-AL;10UF,20%,50V,WT,5X11MM,5M	
4 C201	2401-000553	C-AL;1UF,10%,50V,GP,5X11MM,5MM	
4 C618	2401-000553	C-AL;1UF,10%,50V,GP,5X11MM,5MM	
4 C902	2401-000553	C-AL;1UF,10%,50V,GP,5X11MM,5MM	
4 C106	2401-000603	C-AL;1UF,20%,50V,GP,5X11MM,5MM	
4 C239	2401-000603	C-AL;1UF,20%,50V,GP,5X11MM,5MM	
4 C301	2401-000603	C-AL;1UF,20%,50V,GP,5X11MM,5MM	
4 C818	2401-000711	C-AL;2200uF,20%,25V,GP,TP,16x25,7.5	
4 C237	2401-000914	C-AL;22UF,20%,16V,GP,5X11,5,TP	
4 C217	2401-001026	C-AL;3.3UF,20%,50V,GP,5X11MM,5	
4 C636	2401-001026	C-AL;3.3UF,20%,50V,GP,5X11MM,5	
4 C820	2401-001054	C-AL;3300UF,20%,25V,GP,18X26MM,7.5M	
4 C510	2401-001232	C-AL;4.7UF,20%,250V,GP,10X12.5	
4 C402	2401-001397	C-AL;470UF,20%,25V,GP,10X16MM,	
4 C404	2401-001397	C-AL;470UF,20%,25V,GP,10X16MM,	
4 C422	2401-001527	C-AL;47UF,20%,250V,HR,13X25MM,	
4 C203	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C207	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C250	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C634	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C652	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C660	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C832	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C838	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C917	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C918	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1	
4 C612	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11,5	
4 C613	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11,5	
4 C626	2401-001989	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
4 C628	2401-001989	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
4 C621	2401-001998	C-AL;1000UF,20%,25V,GP,TP,10X20	
⚠ 4 CR02S	2401-002212	C-AL;10UF,20%,25V,WT,TP,5X11,5	
4 C202	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C210	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C215	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C227	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C229	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C231	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C630	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C631	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C645	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C827	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C840	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C903	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
⚠ 4 CR03S	2401-002235	C-ELECTROLYTIC;CE04W(T)16V10M	
4 C427	2401-002267	C-AL;2.2UF,20%,250V,GP,8X12MM,	
4 C507	2401-002267	C-AL;2.2UF,20%,250V,GP,8X12MM,	
4 C808	2401-002300	C-ELECTROLYTIC;CE04WTAPG50V47U	
4 C102	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE	
4 C104	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE	
4 C512	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE	
4 C826	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE	

Loc. No.	Code No.	Description ; Specification	Remark
4 C414	2401-002597	C-AL;220uF,20%,35V,GP,TP,10x12.5,5	
4 C248	2401-002619	C-AL;47uF,20%,25V,GP,TP,5x11,5	
4 C835	2401-003139	C-AL;1000UF,20%,25V,WT,TP,10*2	
4 CW901	2503-000156	C-NETWORK;100pFx4,20&,50V	
4 L202	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
4 L301	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
4 L602	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
4 L603	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
4 L906	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
4 L907	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
4 R604	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
4 R605	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
4 L103	2701-000115	INDUCTOR-AXIAL;10UH,10%,2.8X7M	
4 J705	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4	
4 J706	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4	
4 J707	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4	
4 J713	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4	
4 R713	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4	
4 L102	2701-000159	INDUCTORAXIAL;22uH,10%,4.2x9.8mm	
4 J699	2701-000168	INDUCTORAXIAL;3.3uH,5%,2.5x3.4mm	
4 L207	2701-000168	INDUCTORAXIAL;3.3uH,5%,2.5x3.4mm	
4 L208	2701-000168	INDUCTORAXIAL;3.3uH,5%,2.5x3.4mm	
4 L209	2701-000168	INDUCTORAXIAL;3.3uH,5%,2.5x3.4mm	
4 L604	2701-000168	INDUCTORAXIAL;3.3uH,5%,2.5x3.4mm	
4 L902	2701-000183	INDUCTOR-AXIAL;39uH,5%,2.4x3.4mm	
4 L201	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
4 L204	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
4 L601	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
4 L609	2702-001094	INDUCTOR-RADIAL;10uH,10%,6x4mm	
4 R519	2702-001096	INDUCTOR-RADIAL;33uH,10%,6x4mm	
4 X201	2801-003432	CRYSTAL-UNIT;20.25MHZ,30PPM,28-AAM,13P	
4 X901	2801-003728	CRYSTAL-UNIT;6MHz,30ppm,28AAM,20pf,40oh	
4 X601	2801-003903	CRYSTAL-UNIT18.432MHz,25ppm,28AAM,12	
4 L407	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-	
4 L411	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-	
4 L501	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-	
4 L804	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-	
4 L807	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-	
4 L901	2901-000299	FILTER-EMIBEAD;BL02RN2-R65T2DB	
4 L903	2901-000299	FILTER-EMIBEAD;BL02RN2-R65T2DB	
4 L904	2901-000299	FILTER-EMIBEAD;BL02RN2-R65T2DB	
4 L203	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 L302	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 L303	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
⚠ 4 L401	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 L610	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 L801	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 L802	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 L803	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 L806	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 L809	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6.	
4 SW901	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,	
4 SW902	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,	
4 SW903	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,	
4 SW904	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,	
4 SW905	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,	
⚠ 4 FD801S	3601-001086	FUSE-AXIAL LEAD;125V,5A,FAST-ACTING,GLAS	
⚠ 4 FD803S	3601-001086	FUSE-AXIAL LEAD;125V,5A,FAST-ACTING,GLAS	
⚠ 4 FD802S	3601-001228	FUSE-AXIAL LEAD;125V,10A,FAST-ACTING,EPO	
4 F801A	3602-000114	FUSE-HOLDER;-,-,30MOHM	
4 F801B	3602-000114	FUSE-HOLDER;-,-,30MOHM	
4 J102	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J103	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J104	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J106	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J107	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J109	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J110	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J112	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J113	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J115	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J116	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J117	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J118	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J119	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J120	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J122	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	

Loc. No.	Code No.	Description ; Specification	Remark
4 J124	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J126	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J127	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J128	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J202	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J204	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J205	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J206	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J209	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J210	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J211	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J212	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J213	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J215	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J216	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J217	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J219	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J221	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J222	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J223	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J224	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J225	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J226	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J227	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J228	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J229	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J231	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J232	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J233	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J234	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J237	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J238	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J239	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J240	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J243	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J245	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J246	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J247	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J248	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J249	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J250	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J251	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J252	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J253	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J254	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J255	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J256	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J257	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J258	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J259	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J260	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J261	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J262	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J263	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J264	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J290	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J291	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J292	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J311	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J312	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J313	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J403	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J404	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J405	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J406	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J407	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J408	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J409	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J410	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J411	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J412	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J413	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J416	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J419	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J420	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J421	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J422	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	

Loc. No.	Code No.	Description ; Specification	Remark
4 J429	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J444	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J445	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J501	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J502	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J504	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J505	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J510	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J601	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J602	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J603	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J605	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J606	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J608	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J609	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J610	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J611	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J613	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J614	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J615	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J616	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J617	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J619	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J620	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J621	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J623	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J625	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J626	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J627	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J628	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J629	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J632	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J634	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J635	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J665	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J701	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J703	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J704	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J708	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J710	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J712	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J715	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J801	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J802	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J803	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J804	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J805	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J807	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J810	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J811	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J816	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J817	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J818	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J819	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J820	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J821	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J822	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J826	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J831	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J832	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J835	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J900	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J901	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J902	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J904	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J905	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J906	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J907	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J908	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J911	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J912	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J913	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J914	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J915	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J916	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J917	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J918	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J920	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J921	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J922	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J923	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J924	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J925	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J926	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J927	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J928	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J929	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J930	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J931	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J933	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J934	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J935	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J941	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J942	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J994	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J995	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J996	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J997	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 J998	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L101	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L410	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L605	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L606	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L607	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L608	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L701	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L702	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L705	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L706	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 L711	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 R623	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 R820	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
⚠ 4 RY801S	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
4 07VER	AA41-00132J	PCB-MAIN;CS2139T,FR-1,1L,J,1.6T,330X245	
4 EY301	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY302	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY303	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY304	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY401	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY402	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY403	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY409	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY410	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY411	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY412	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY413	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY414	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY415	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY416	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY419	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY421	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY422	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY423	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY424	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY426	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY427	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY429	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY430	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY431	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY432	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY433	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY434	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY435	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY436	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY437	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY439	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY440	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY441	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY442	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY445	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY602	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY604	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY701	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY702	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	

Loc. No.	Code No.	Description ; Specification	Remark
4 EY805	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY806	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY809	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY810	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY811	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY812	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY813	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY814	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY823	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY824	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY825	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY826	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY827	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY828	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY830	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY831	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY832	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY833	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY835	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY836	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY837	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY839	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY840	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY841	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY842	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY844	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY845	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY847	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY849	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY853	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY854	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY855	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY856	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY858	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY859	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY865	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY866	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY867	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY870	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EY871	AA60-40011A	EYELET;-,ID2.0,OD2.8,-,-,BST	
4 EL404	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 EL501	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 EL502	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 EL802	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 EL803	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 EL805	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 EL806	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 EL807	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 EL808	AA60-40011B	EYELET;-,ID2.2,OD3.2,-,-,BSP	
4 GT102	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT301	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT302	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT401	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT402	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT407	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT501	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT502	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT503	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT801	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT802	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT803	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT804	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT805	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 GT806	AA60-40014A	PIN-GT,ASSY;1P,-,-,AUTO	
4 L/LINE	AA68-01544A	LABEL;LINE,ALL MDL COMMON	
4 R817	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4	
⚠ 4 RR430S	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4	
4 R240	2003-000592	R-METALOXIDE(S);22OHM,5%,2W,AD	
2 A/VS	AA98-00126A	ASSY PCB(P);VIDEO,S/W,KS2A/KS3A	
3 DZS01	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3 DZS02	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3 QS01	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
3 QS02	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
3 QS03	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM	
3 ICS01	1001-001114	IC-VIDEO SWITCH;TEA6425,VIDEO SWITCH ,DI	
3 RS01	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,	
3 RS03	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	

Loc. No.	Code No.	Description ; Specification	Remark
3 RS05	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
3 RS07	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
3 RS10	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
3 RS11	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
3 RS02	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
3 RS04	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
3 RS06	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	
3 CS01	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
3 CS02	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
3 CS03	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
3 CS04	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
3 CS05	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
3 CS06	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM	
3 CS08	2305-000665	C-FILM;104J, 60V,5MM TAPING	
3 CS07	2401-002009	C-AL;100UF,20%,16V,GP,TP,6.3X7	
3 LS01	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.	
3 CNS01	3711-002704	PINHEADER;YFAW-025-106(6PIN2.5MM)15.0X	
3 CNS02	3711-002706	PIN-HEADER;YFAW025-108(8PIN2.5M/M)20.0	
3 JS01	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 JS02	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 JS03	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 JS04	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 RS08	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 RS09	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 04VER	AA41-00153E	PCB-VIDEO SWITCH;CS29A6,FR-1,1L,E,1.6T,2	
2 A/AV	AA98-00159A	ASSY PCB;KS2A,A/V FRONT,TXL2091	
3 RA01	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AB,	
3 RA02	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AB,	
3 CA06	2401-003102	C-AL;100uF,20%,10V,GP,TP,5x11,5	
3 CA07	2401-003102	C-AL;100uF,20%,10V,GP,TP,5x11,5	
3 CORE1	3301-001201	CORE-FERRITE;AE,230.5x10.25x36mm,1500,28	
3 JE01	3722-000143	JACKHONE;1P,3.4MM,-,MBAG	
3 JR01	3722-001031	JACK-RCA;3P,3.6MM,#18,AU	
3 LA02	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 LA03	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 LA04	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 LA05	3812-000219	JUMPER-WIRE-SO,COPPER;TA0.6SN/52M/M(A	
3 CN01A	AA39-20068E	LEAD CONNECTOR-ASSY;-,YBNH025-08,67096-0	
3 CN05A	AA39-20069D	LEAD-CONNECTOR,ASSY;-,YBNH025-	
3 00VER	AA41-00320A	PCB-AV FRONT;CL568B,FR-1,1L,A,1.6T,245x2	
3 BAND-W	AA63-10002A	BAND-TIE;-,NYLON66V2,-,-,L100,NTR,-,-	
2 AV+CF	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+,M4,L12,ZPC(YEL)	
2 CRT+CF	AA60-10050R	SCREW-ASSY;WC,HH,+M5,L31.5,SWR	
2 STOPPE	AA61-40113A	STOPPER-PCB;-,ABS,HB,NTR.	
2 F/C	AA64-02977A	CABINET-FRONT;21A8,HIPS,VO,BLK,DG703P,SE	
3 KC+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	
3 WR+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	
3 SPRING	AA61-60003J	SPRING-CS;-,-,SUS304,0.5,OD6,H	
3 KC	AA64-02978A	KNOB-CONTROL;21A8,ABS,HB,BLK,DG703P	
3 KP	AA64-02979A	KNOB-POWER;21A8,ABS,HB,BLK,DG703P	
3 WR	AA64-00816B	WINDOW REMOCON;-,21A8,-,PC,V0,VIOLET,-	
3 IL	AA64-00818B	INDICATOR LED;-,21A8,-,ACRYL,-,CLR,-	
2 BADGE	AA64-70123A	BADGE-BRAND;AL,SAMSUNG,SILVER,L=50,FLAT,	
2 CWFCR	AA65-00011B	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,15M	
2 DRESPK	AA65-30018A	CLAMP-WIRE;-,NYLON6.6,-,-,DATL	
2 CWFCL	AA65-30105A	CLAMP-WIRE;NYLON 66N,VO,NTR,15MM	
2 L/IND	AA68-00524A	LABEL-INDICATOR;A/P 90(G),CXJ1352X/XAA,U	
2 L/QMS	AA68-02391A	LABEL-QMS;ART-PAPER(90)G,110x24mm	
2 A/SPK	AA96-00358E	ASSY SPEAKER;-,8ohm,5W,3001-000274,400/6	
3 SPK	3001-000274	SPEAKER-GENERAL;5W8OHM100X50MM	
3 L/SPK	AA39-00102S	LEAD-CONNECTOR,ASSY;4P,35155-0400,REC,40	

ASSY BOX

1 A/BOX	AA92-02131A	ASSY BOX;TXL2091FX/XAA	
2 L/BOX	AA68-01542A	LABEL;(UNIBOX),PAPER WHT ALLMD	
2 PCK	AA69-01213R	PACKING CASE;TXL2091F(21A8 LG),CB D-2 BB	

ASSY P/MATERIAL

1 A/PACK	AA92-02685A	ASSY P/MATERIAL;TXL2091FX/XAA	

Loc. No.	Code No.	Description ; Specification	Remark
2 BXTAPE	0203-001295	TAPE-OPP MASKING;1242,T0.06,W100,L91.4M,	
2 STAPLE	AA60-40006A	PIN-STAPLE;-,-,-,H18,33X17.8X2	
2 C/SET	AA69-01635A	CUSHION-SET;21A8NEW,(SAMEX),EPS,C=0.	
2 PE-BAG	AA69-01208A	BAG;SHEET,19-20,W42,L50,FOAM,OEM	

ASSY LABEL

1 A/LABE	AA92-02408A	ASSY LABEL;TXL2091FX/XAA	
2 INLAYB	AA64-00892G	INLAY BACK;D2,D3,RCA9P+S-VHS+DVD,PS SHEE	
2 INLAYC	AA64-02053A	INLAY BACK;CAUTION,LGRY-TXT,W-FCC,73X93,	
2 L/RAT	AA68-02482A	LABEL-RATING;ART-PAPER,90(S),SEA,WHITE	
2 L/ENER	AA68-01557A	LABEL ENERGY;STAR,STATIC FREE FILM	
2 L/SET	AA68-50394W	LABEL-D.H.H.S;CT21A9P7X/AAU,A/P120(G),-,	

ASSY CPT

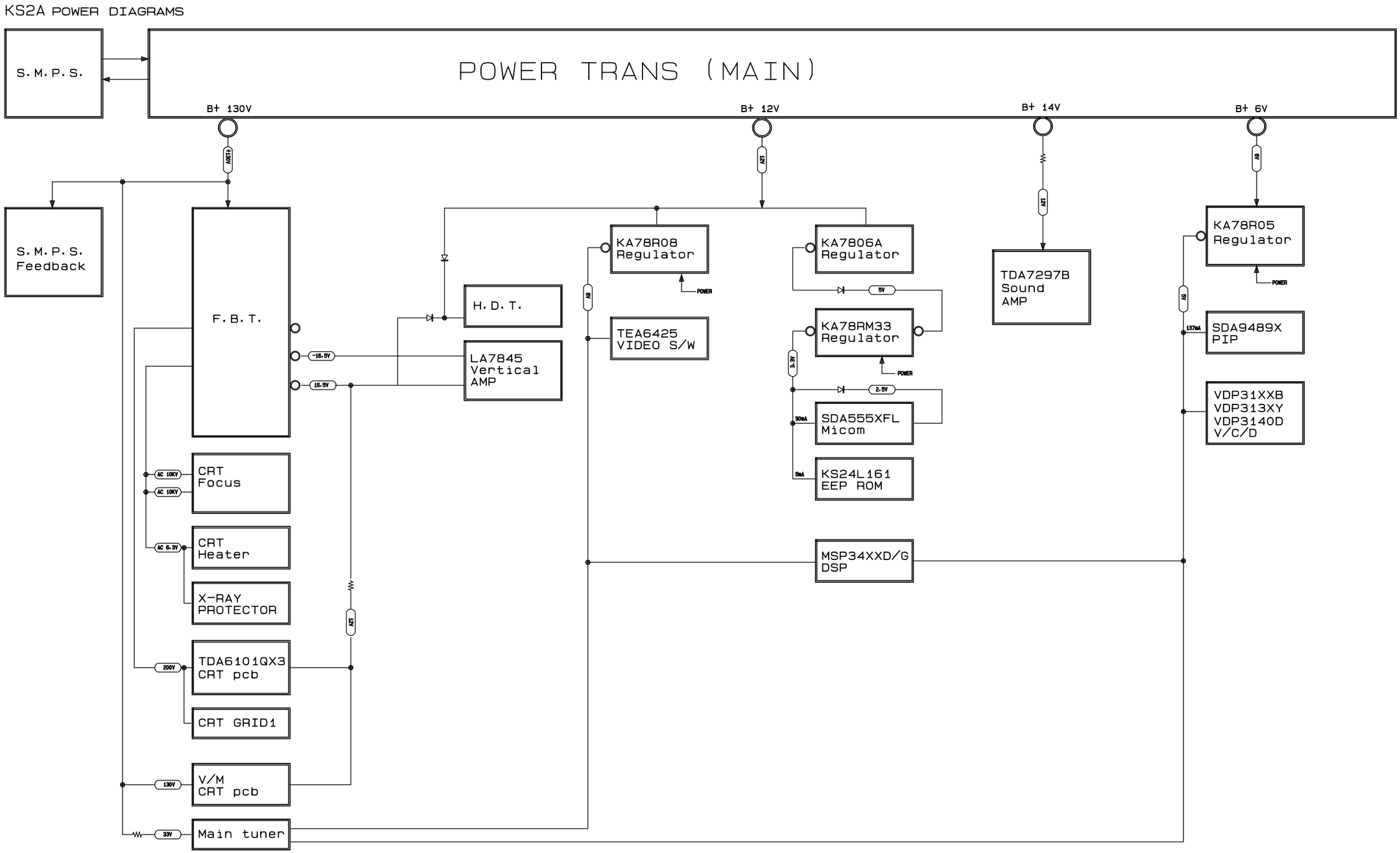
1 A/CPT	AA91-01354A	ASSY CPT;TXL2091FX/XAA	
2 TAPE	0203-001303	TAPE-ACETATE;#1554,T0.25,W19,L30000,WHT	
⚠ 2 CRT	AA03-00317A	CRT COLOR;A51QDX992X,0MG,1.85MH,18.0MH,2	
2 C-Y	AA27-00002A	MAGNET-CONVERGENCE;JH291-SC-OB,29.1M	
2 D-COIL	AA27-00114A	COIL DEGAUSSING;-,-,2.56mH,-,35T,9ohm,-,	
2 D-Y	AA27-00198A	DEFLECTION YOKE;21DF,DIF-2192AA(NF),ST-3	
2 SPACER	AA63-60028A	SPACER-DY;-,NEOPRENE,-,BLK,V0W	
2 CDCOIL	AA65-00009B	CLAMP-D,COIL;NYLON 66,V0,-,-,21A8,-	
2 A/TBC	AA98-70014D	ASSY-TBC,WIRE(P);-,22 Q,NTSC,PAL,1P,TVI	

ASSY ACCESSORY

1 A/ACCE	AA92-01853A	ASSY ACCESSORY;TXL2091FX/XAA	
2 AC-TAP	0203-001279	TAPE-OPP MASKING;#232,T0.14,W15,L50000,Y	
2 BATT	4301-000120	BATTERY-MN;1.5V,-,AA	
2 RMT	AA59-00153A	REMOCON;DP,TM58,AA59-00141A,-,-,-,-,-,	
2 C/WARR	AA68-01433A	CARD WARRANTY;TV/TVCR,ALL,W/P100(G),B5,	
2 B/WARR	AA68-01561A	CARD WARRANTY;BLOCK,STATEMENT ONLY,SEA/S	
2 I/B	AA68-02383A	MANUAL-USERS;ENG,W/P100(G),B5,60P,KS2A	
2 C/REG	AA68-01969A	CARD;REGISTRATION PRODUCT,W/P120(G),SEA	
2 BAG-PE	AA69-01195A	BAG PE;CL29A6W8X,HDPET0.012,93/4X151	

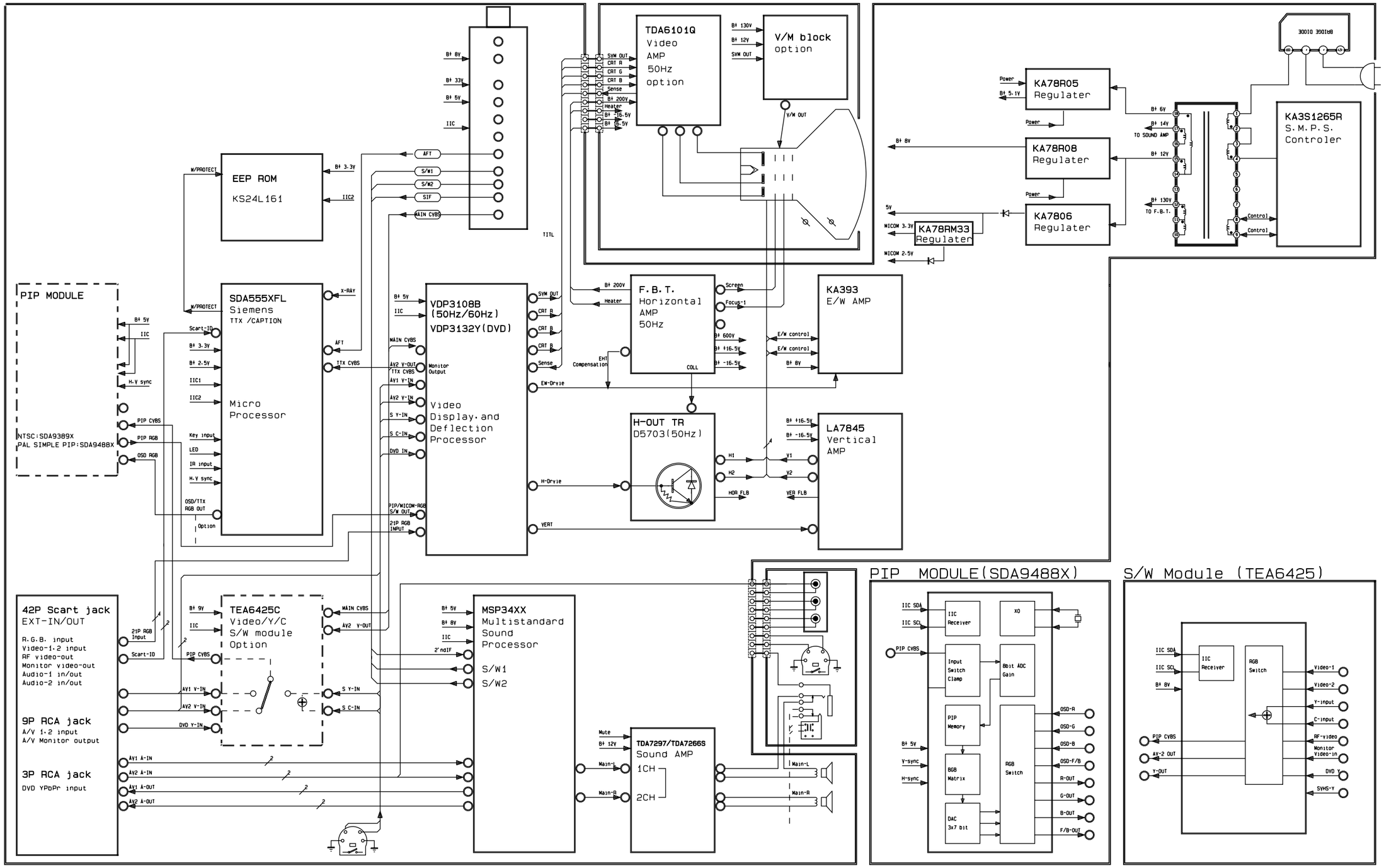
8. Block Diagrams

8-1 Power Diagram

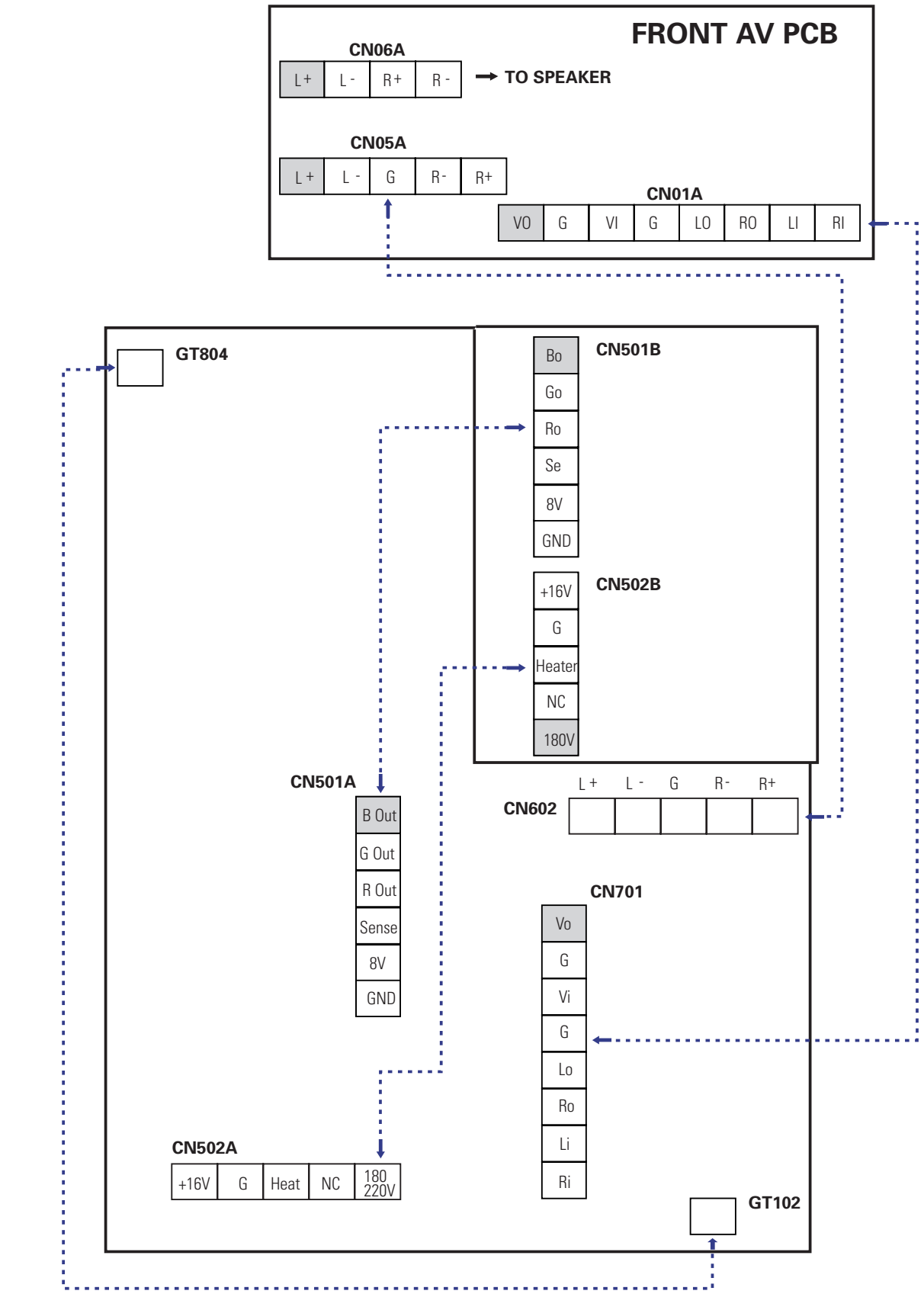


8-2 Block Diagram

KS2A POWER DIAGRAMS



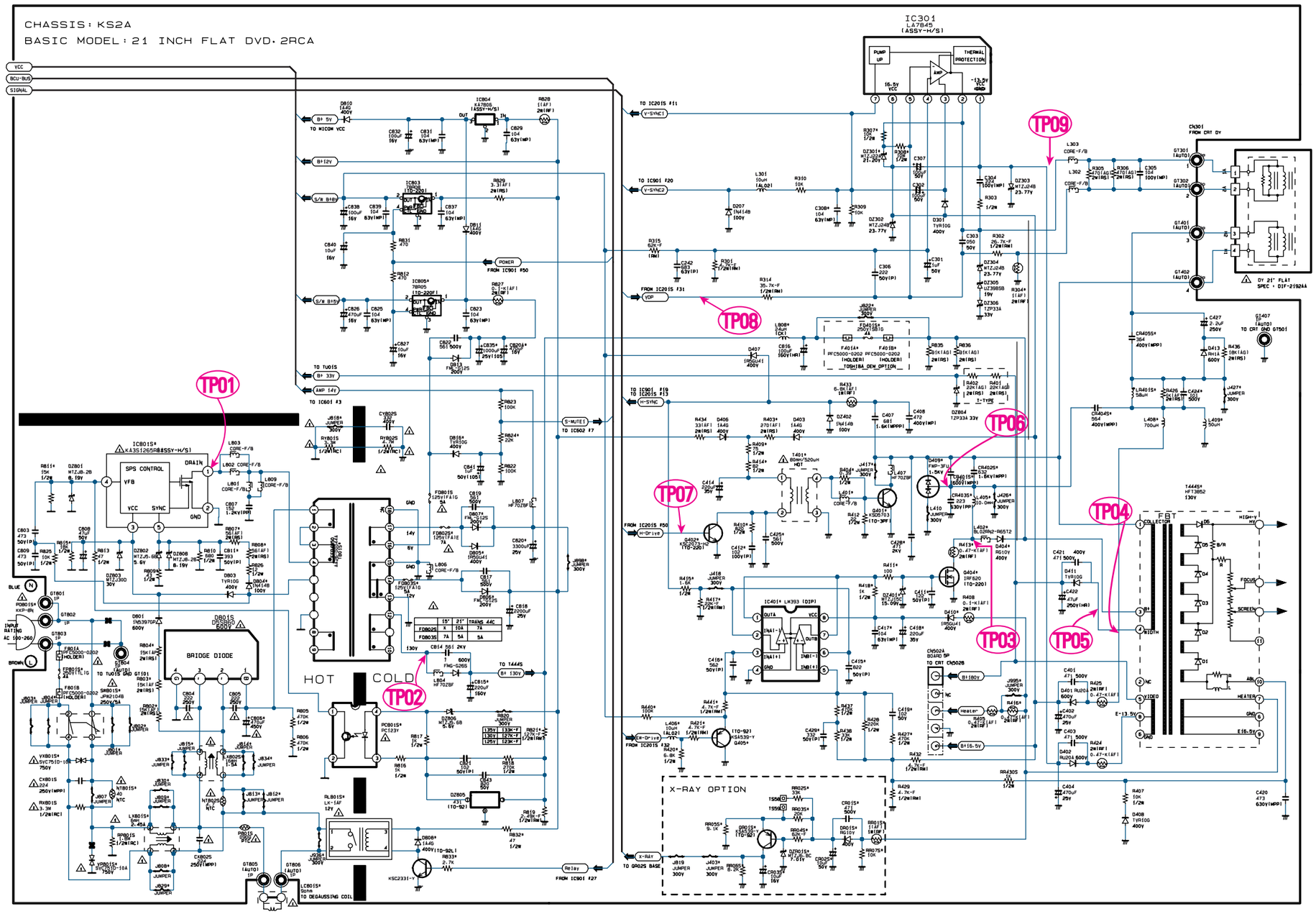
9. Wiring Diagram

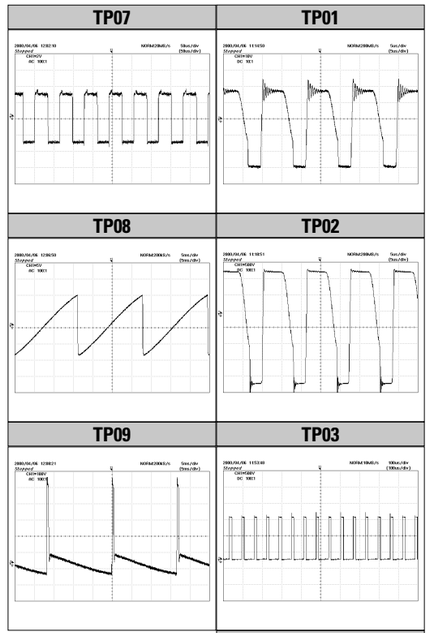


MEMO

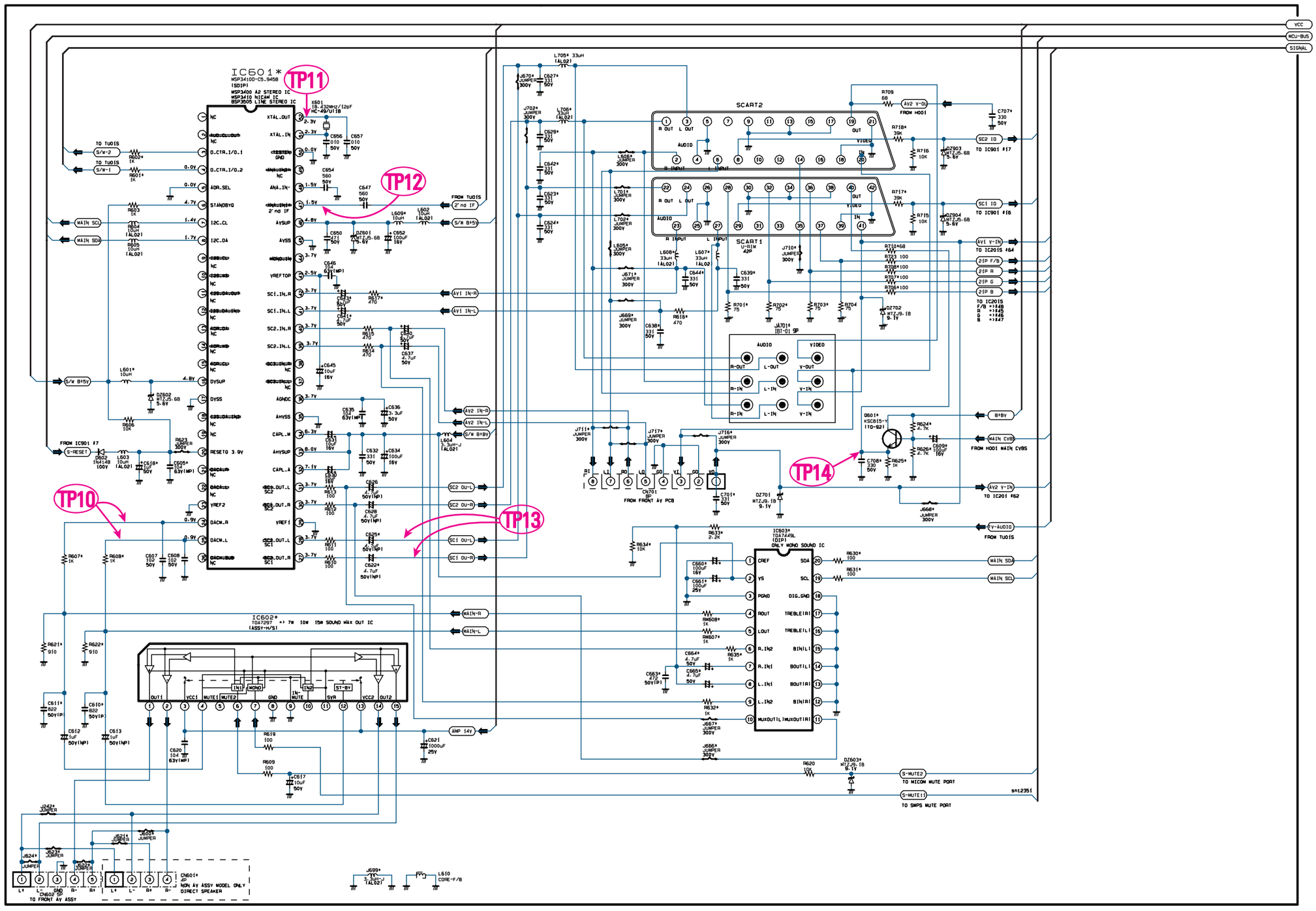
10. Schematic Diagrams

10-1 MAIN 1/4 (WITH EW)

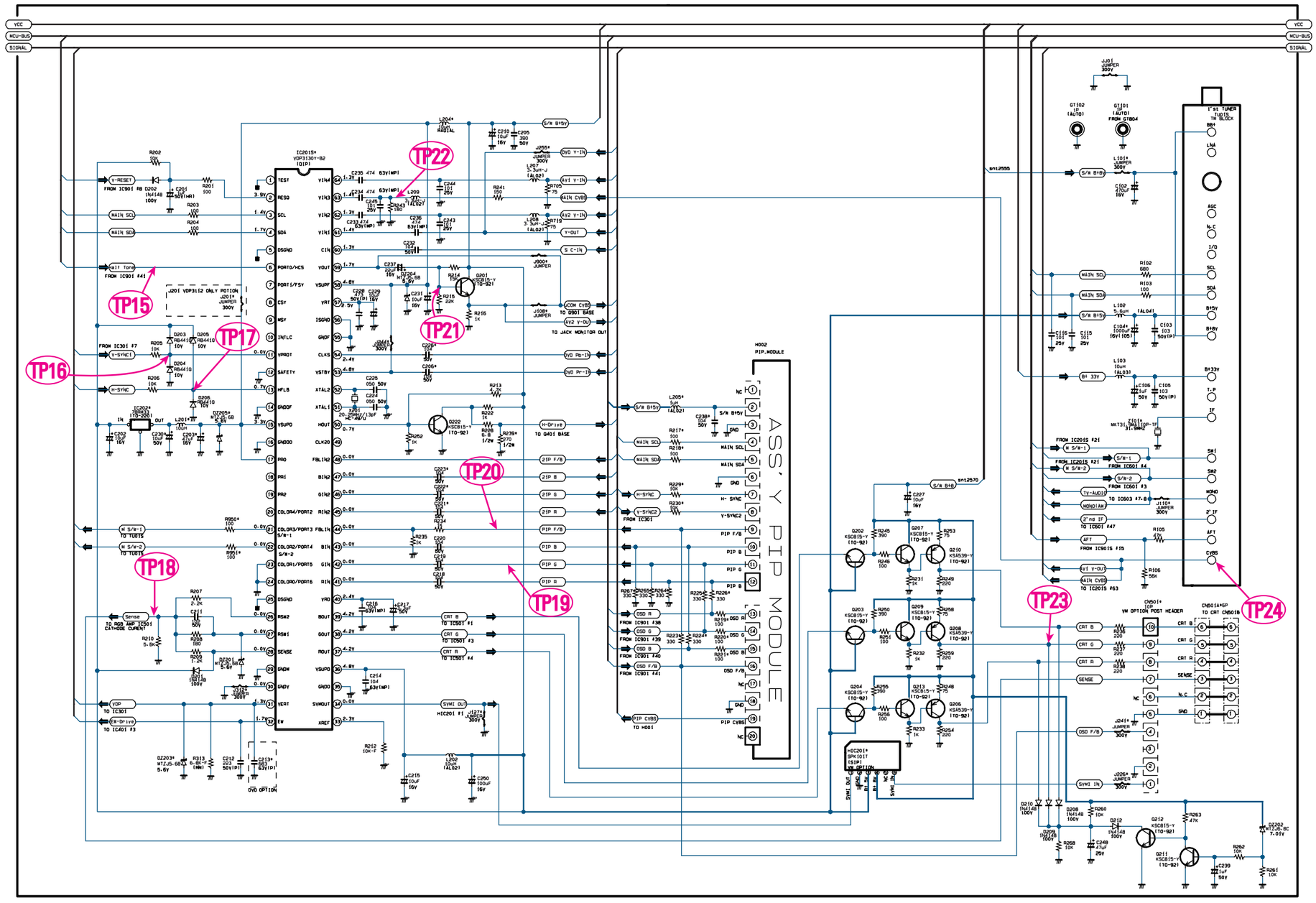




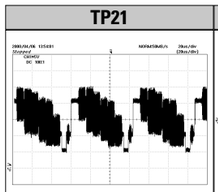
10-2 MAIN 2/4


IC601*
MSP3400-C5.9458
(SDIP)
MSP3400 A2 STEREO IC
MSP3410 NICAM IC
BSP3505 LINE STEREO IC
TP10
TP11
TP12
TP13
TP14
SCART2
SCART1
IC602*
TDA7297 => 7W 10W 15W SOUND MAX OUT IC
IC603*
TDA7496L
(DIP)
ONLY MONO SOUND IC
CN701
FROM FRONT AV PCB
CN601*
NON AV ASSY MODEL ONLY
DIRECT SPEAKER
CN602*
TO FRONT AV ASSY
VCC
MCU-BUS
SIGNAL
: Power Line
: Signal Line

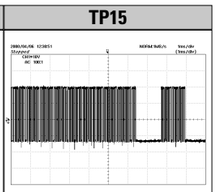
10-3 MAIN 3/4



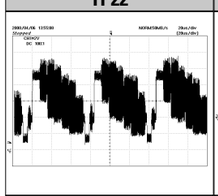
TP21



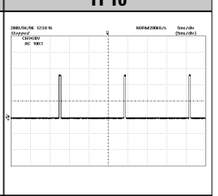
TP15



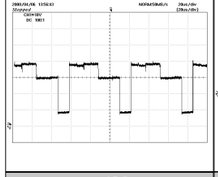
TP22



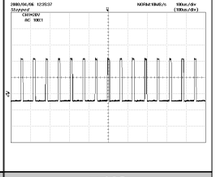
TP16



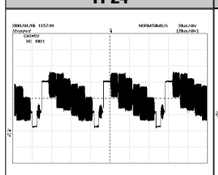
TP23



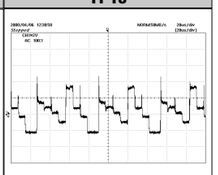
TP17



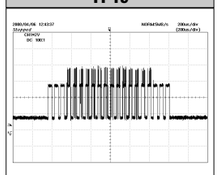
TP24



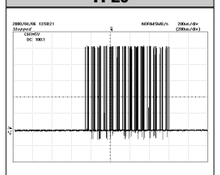
TP18



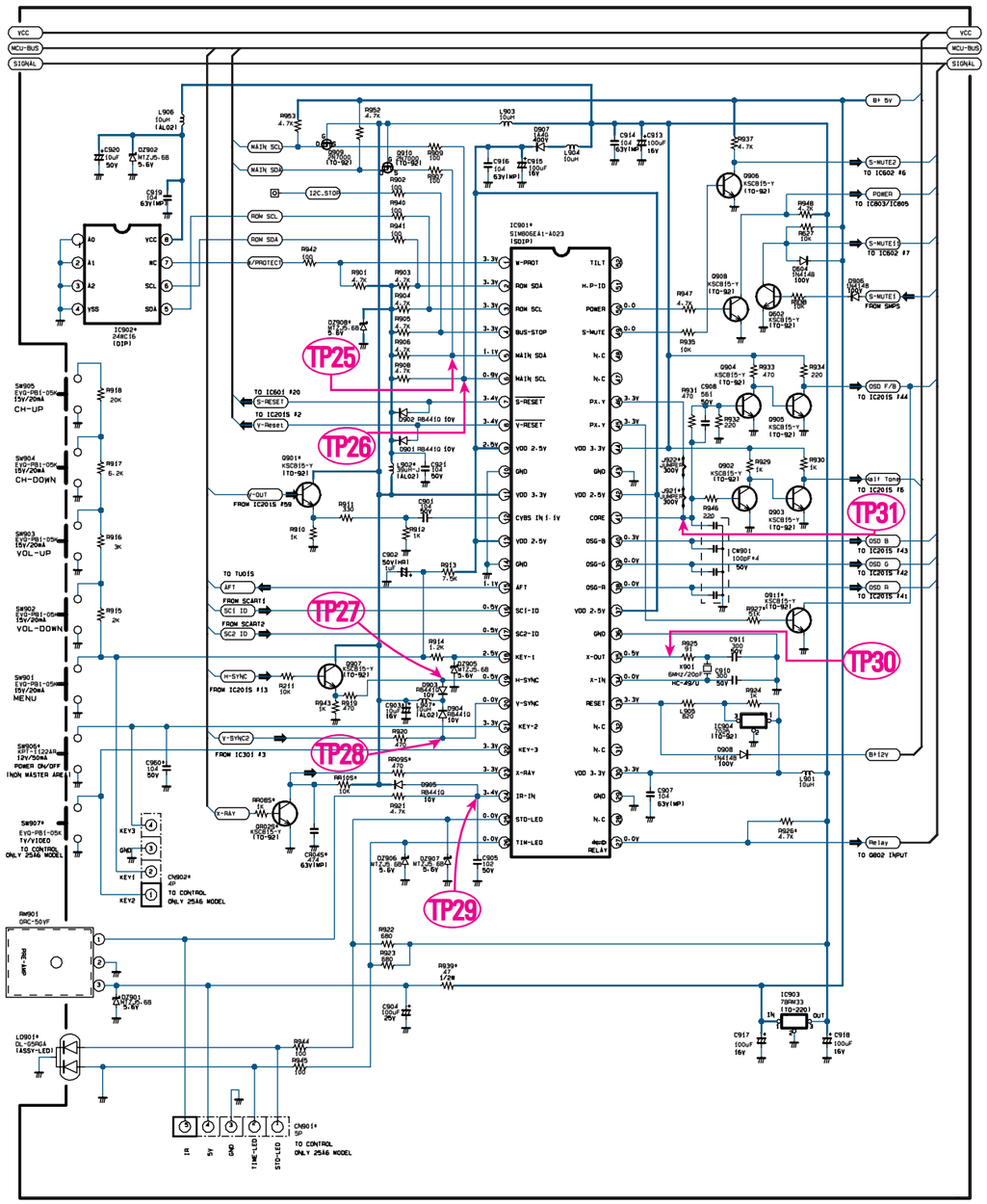
TP19

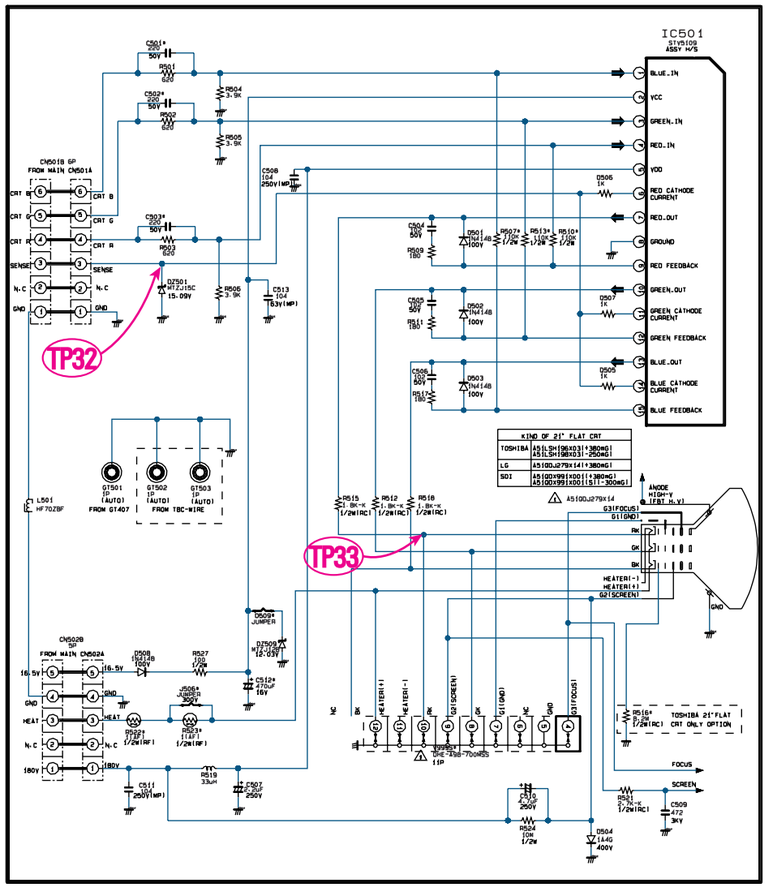


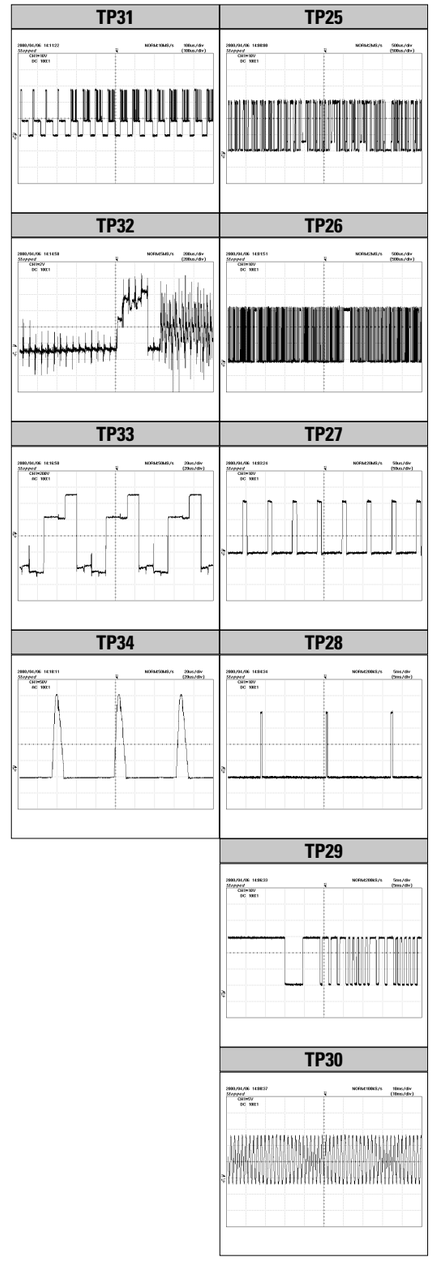
TP20



10-4 MAIN 4/4







: Power Line
: Signal Line