

COLOR MONITOR SERVICE MANUAL

CHASSIS NO. : CA-111

FACTORY MODEL: EG994G

MODEL: VX930

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.



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SPECIFICATIONS

1. PICTURE TUBE

Size	: 19 inch (Flat Square Tube)
Deflection Angle	: 90°
Neck Diameter	: 29.1mm
Diagonal Size	: 457.2mm
Dot Pitch	: 0.25mm
Face Treatment	: Anti-Glare

2. SIGNAL

2-1. Horizontal & Vertical Sync

- 1) Input Voltage Level : Low=0~1.2V, High=2.5~5.5V
- 2) Sync Polarity : Positive or Negative
- 3) Composite Sync Signal

2-2. Video Input Signal

- 1) Voltage Level : 0 ~ 0.7 Vp-p
 - a) Color 0, 0 : 0 Vp-p
 - b) Color 7, 0 : 0.467 Vp-p
 - c) Color 15, 0 : 0.7 Vp-p
- 2) Input Impedance : 75 Ω
- 3) Video Color : R, G, B Analog
- 4) Signal Format : Refer to the Timing Chart

2-3. Signal Connector

15-pin Attached Connector

2-4. Scanning Frequency

Horizontal	: 30 ~ 97kHz
Vertical	: 50 ~ 160Hz

3. POWER SUPPLY

3-1. Power Range

AC 100~240V, 50/60HZ, 2.5A Max.(Free Voltage)

3-2. Power Consumption

MODE	VIDEO	POWER CONSUMPTION	LED COLOR
NORMAL (ON)	YES	less than 110W	GREEN
SUSPEND & OFF	NO	less than 8W	AMBER

4. DISPLAY AREA

4-1. Active Video Area :

- Max Image Size - 365.8 x 274.3mm (14.40" x 10.80")
- Preset Image Size - 350x 262 mm (13.78" x 10.31")

4-2. Display Color : Full Colors

4-3. Display Resolution : 1600 x 1200 / 75Hz (Non-Interlace)

4-4. Video Bandwidth : 203 MHz

5. ENVIRONMENT

5-1. Operating Temperature: 5°C ~ 40°C (Ambient)

5-2. Relative Humidity : 5%~ 90% (Non-condensing)

5-3. Altitude : 10,000ft

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 464mm (18.27 inch)
Depth	: 494mm (19.45 inch)
Height	: 501mm (19.72 inch)

7. WEIGHT (with TILT/SWIVEL)

Net Weight	: 23.6 kg (52.03 lbs.)
Gross Weight	: 27.8 kg (61.29 lbs.)

SAFETY PRECAUTIONS

SAFETY-RELATED COMPONENT WARNING!

There are special components used in this color monitor which are important for safety. ***These parts are marked  on the schematic diagram and the replacement parts list.*** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

CAUTION: No modification of any circuit should be attempted.

Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines.

SAFETY CHECK

Care should be taken while servicing this color monitor because of the high voltage used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

FIRE & SHOCK HAZARD

An isolation transformer must be inserted between the color monitor and AC power line before servicing the chassis.

- In servicing, attention must be paid to the original lead dress specially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- All the protective devices must be reinstalled per the original design.
- Soldering must be inspected for the cold solder joints, frayed leads, damaged insulation, solder splashes, or the sharp points. Be sure to remove all foreign materials.

IMPLOSION PROTECTION

All used display tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage and scratching during installation. Use only same type display tubes.

X-RADIATION

The only potential source of X-radiation is the picture tube. However, when the high voltage circuitry is operating properly there is no possibility of an X-radiation problem. The basic precaution which must be exercised is keep the high voltage at the factory recommended level; the normal high voltage is about 27kV. The following steps describe how to measure the high voltage and how to prevent X-radiation.

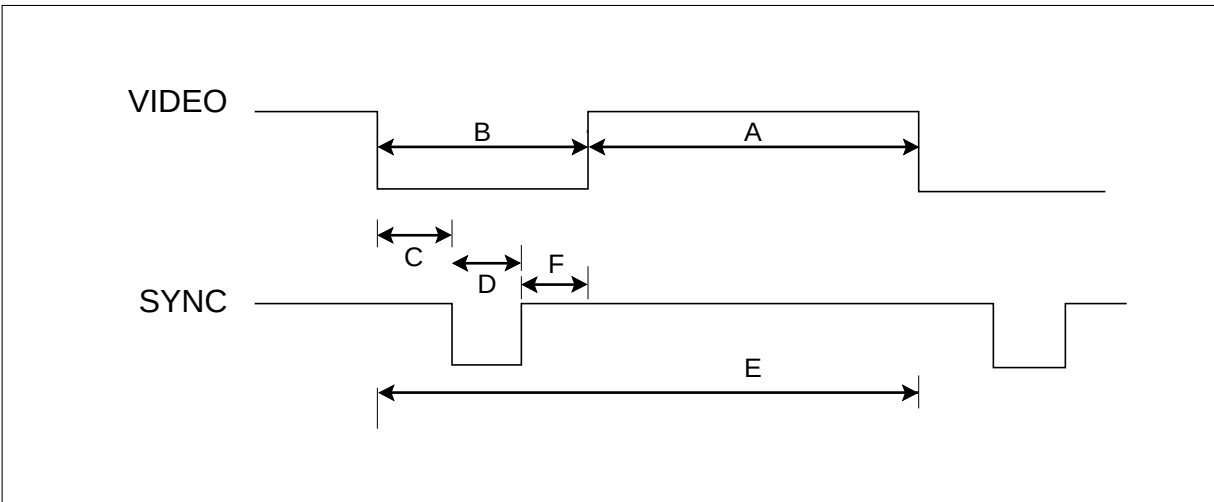
Note : It is important to use an accurate high voltage meter calibrated periodically.

- To measure the high voltage, use a high impedance high voltage meter, connect (–) to chassis and (+) to the CDT anode cap.
- Set the brightness control to maximum point at full white pattern.
- Measure the high voltage. The high voltage meter should be indicated at the factory recommended level.
- If the meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- To prevent X-radiation possibility, it is essential to use the specified picture tube.

CAUTION:

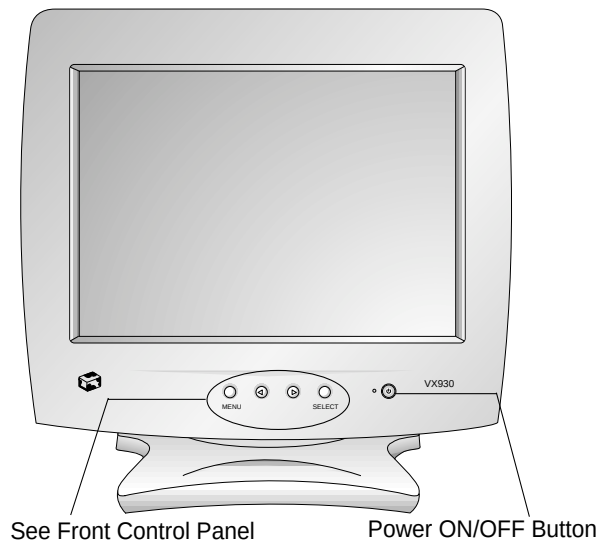
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

TIMING CHART

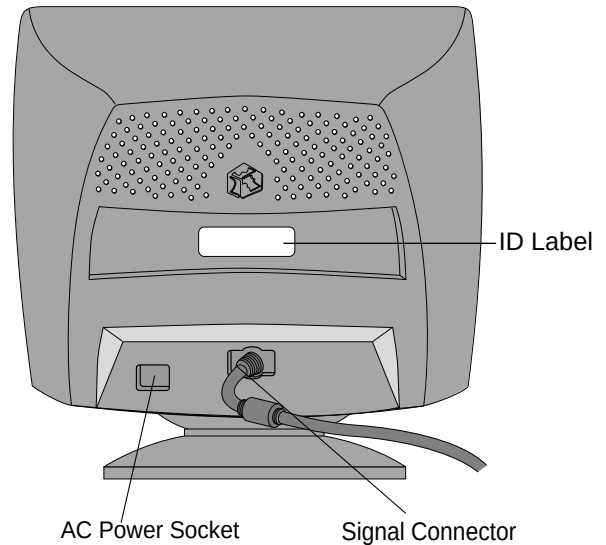


MODE			FACTORY PRESET MODE									
			MARK	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6	MODE 7	MODE 8	MODE 9
H O R I Z O N T A L	Sync Polarity			+	+	+	—	—	—	—	+	+
	Frequency	kHz		60.023	37.879	46.875	31.469	48.363	37.500	31.469	79.976	93.750
	Total Period	μs	E	16.660	26.400	21.333	31.778	20.677	26.667	31.780	12.504	10.666
	Video Active Time	μs	A	13.003	20.000	16.162	25.422	15.754	20.317	25.420	9.481	7.901
	Blanking Time	μs	B	3.657	6.400	5.172	6.356	4.923	6.349	6.356	3.022	2.765
	Front Porch	μs	C	0.203	1.000	0.323	0.636	0.369	0.508	0.640	0.119	0.316
	Sync Duration	μs	D	1.219	3.200	1.616	3.813	2.092	2.032	3.810	1.067	0.948
	Back Porch	μs	F	2.235	2.200	3.232	1.907	2.462	3.810	1.906	1.837	1.501
V E R T I C A L	Sync Polarity			+	+	+	—	—	—	+	+	+
	Frequency	Hz		75.029	60.317	75.000	59.940	60.004	75.000	70.082	75.025	75.000
	Total Period	ms	E	13.328	16.579	13.333	16.683	16.666	13.333	14.270	13.329	13.333
	Video Active Time	ms	A	12.795	15.840	12.800	15.253	15.880	12.800	12.710	12.804	12.800
	Blanking Time	ms	B	0.533	0.739	0.533	1.430	0.786	0.533	1.557	0.525	0.533
	Front Porch	ms	C	0.017	0.026	0.021	0.318	0.062	0.027	0.413	0.013	0.011
	Sync Duration	ms	D	0.050	0.106	0.064	0.064	0.124	0.080	0.064	0.038	0.032
	Back Porch	ms	F	0.466	0.607	0.448	1.048	0.600	0.427	1.080	0.475	0.491
Resolution				1024 X 768 75Hz	800 X 600 60Hz	800 X 600 75Hz	640 X 480 60Hz	1024 X 768 60Hz	640 X 480 75Hz	720 X 400 70Hz	1280 X 1024 75Hz	1600 X 1200 75Hz
Recall				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

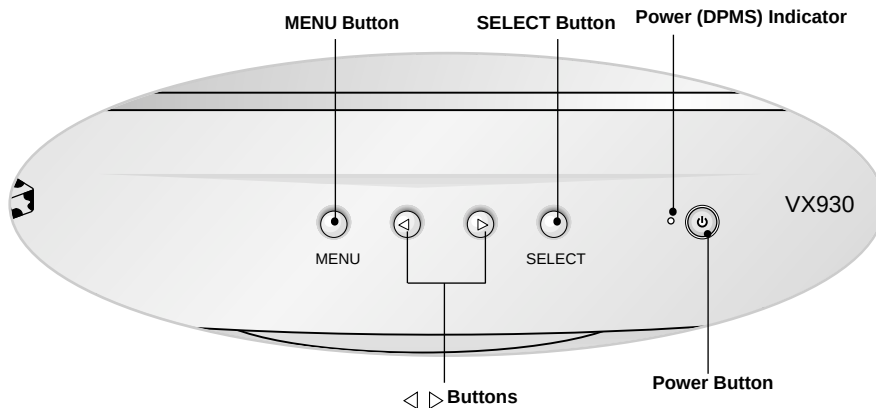
FRONT VIEW



REAR VIEW



Front Control Panel



1. Power ON/OFF Button

Use this button to turn the monitor ON or OFF.

2. Power Indicator

This indicator lights up green when the monitor operates normally; in DPMS (Energy Saving) mode, -stand-by, suspend, or power off mode - its color changes to amber, and if abnormal or damaging circuit turns out orange blink.

3. Select Button

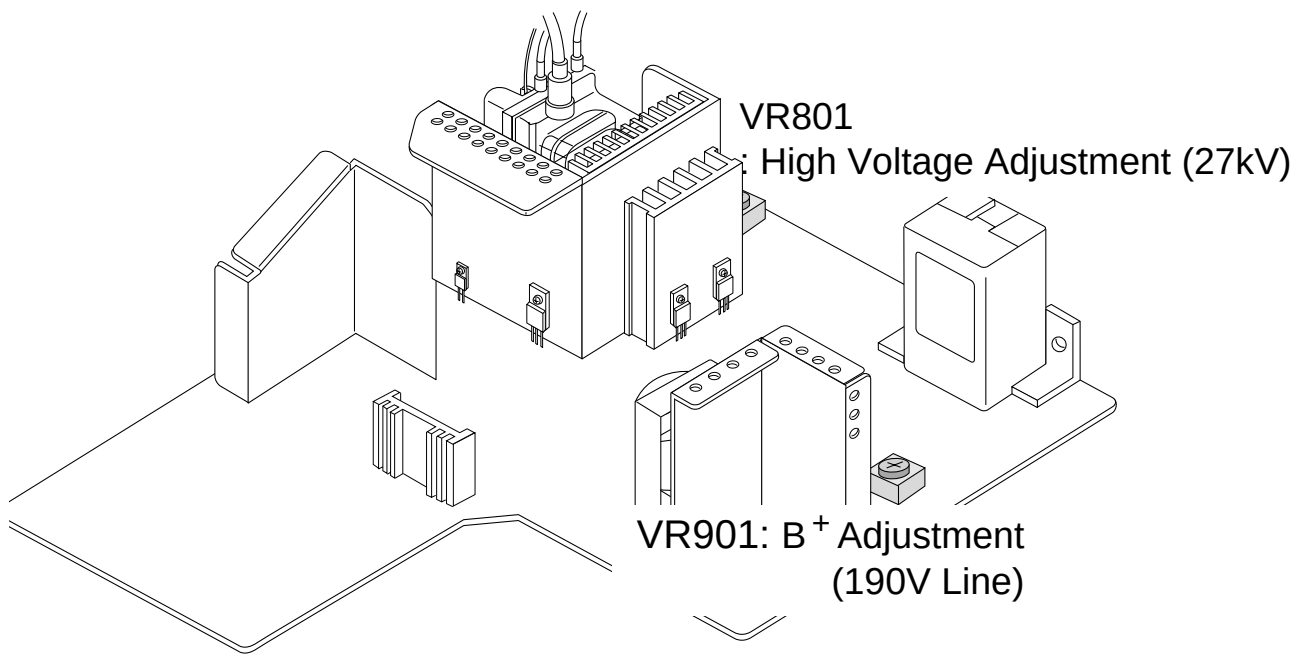
Use this button to enter a selection in the on screen display.

4. ◀ ▶ Buttons

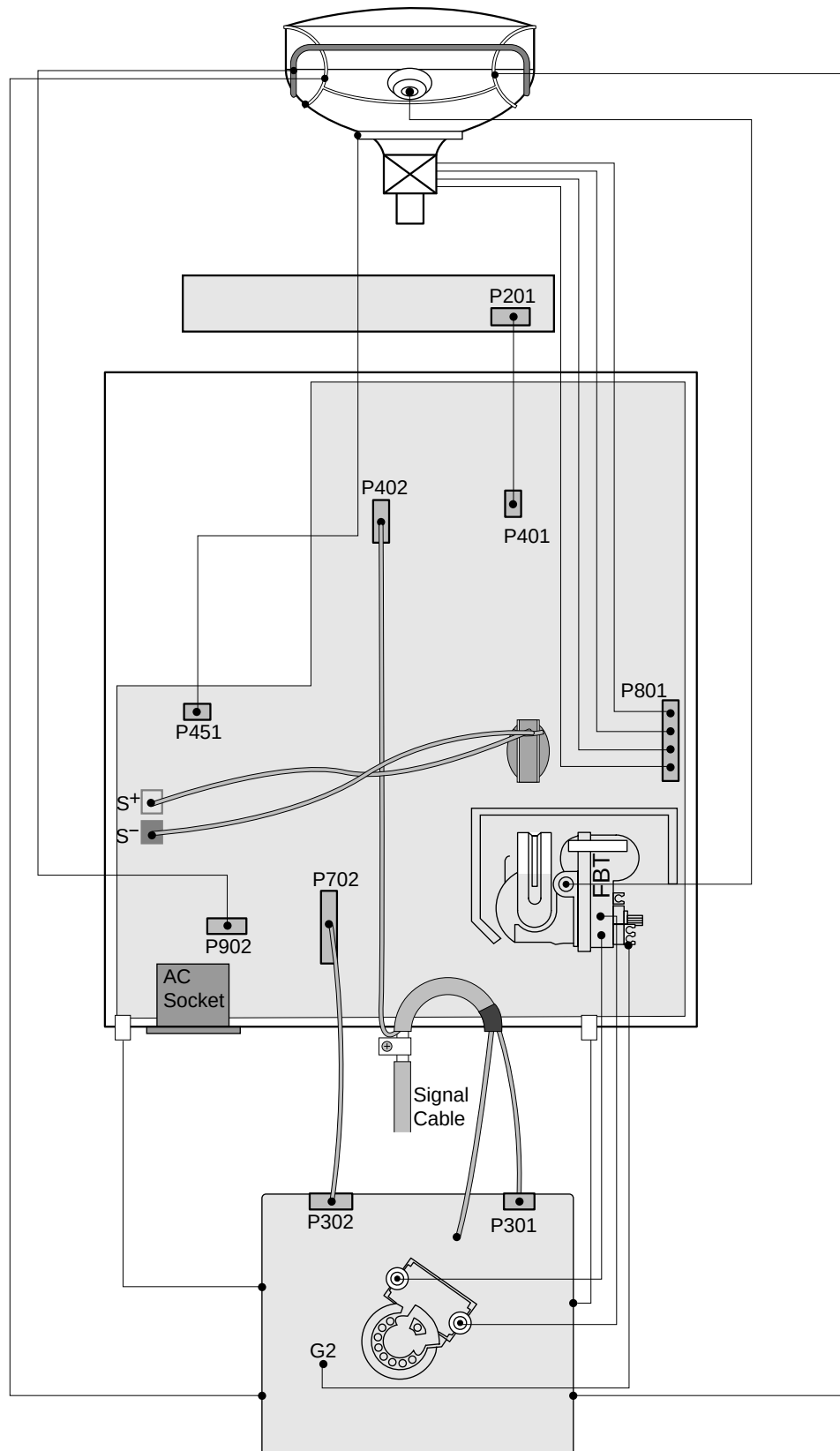
Use these buttons to choose or adjust items in the on screen display.

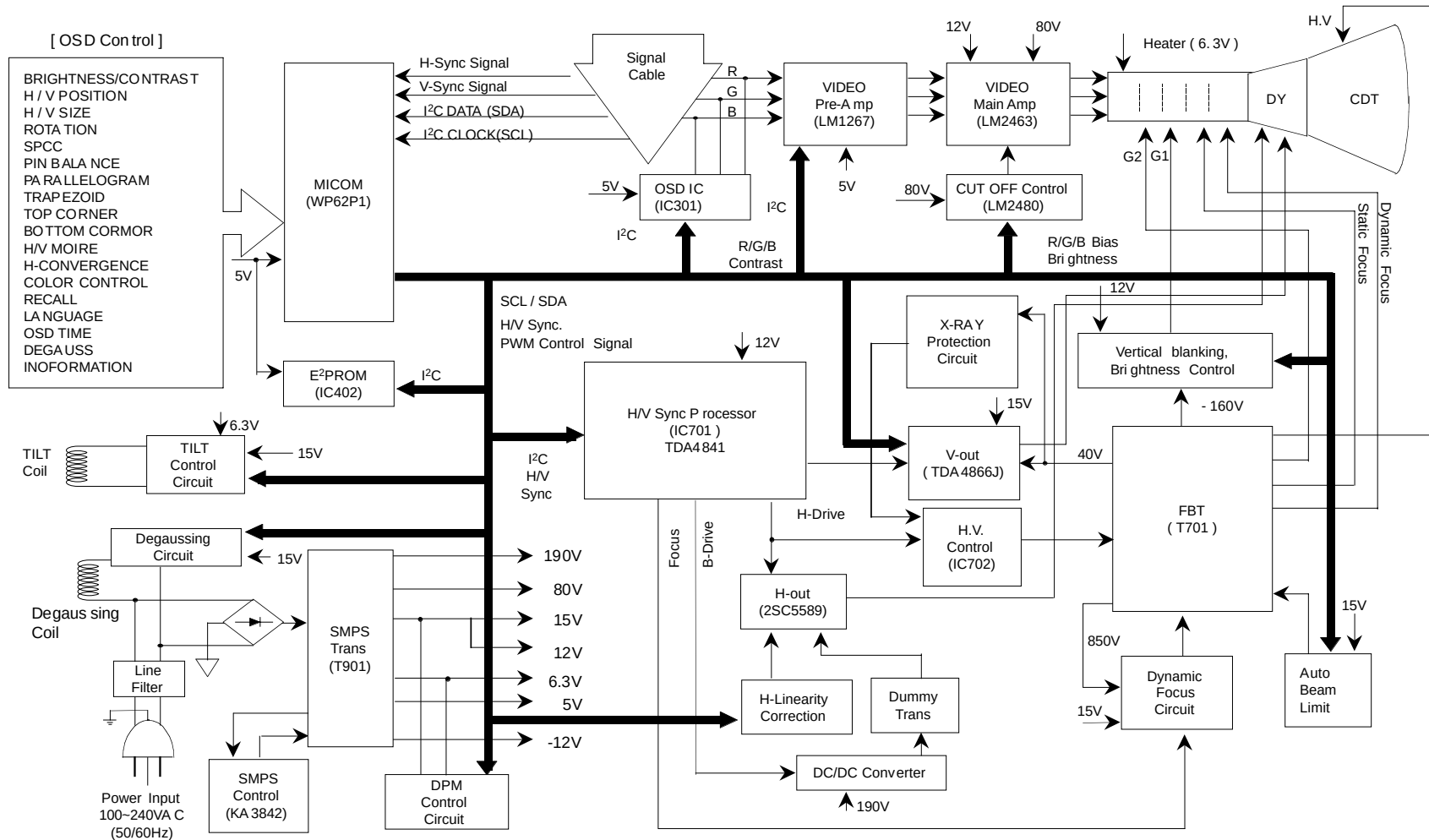
5. MENU Button

Use this button to enter or exit the on screen display.



WIRING DIAGRAM





DESCRIPTION OF BLOCK DIAGRAM

1. Line Filter & Associated Circuit.

This is used for suppressing noise of power input line flowing into the monitor and/or some noise generated in this monitor flowing out through the power input line. That is to say, this circuit prevents interference between the monitor and other electric appliances.

2. Degauss Circuit & Coil.

The degauss circuit consists of the degaussing coil, the PTC (Positive Temperature Coefficient) thermistor (TH901), and the relay (RL901). This circuit eliminates abnormal color of the screen automatically by degaussing the slot mask in the CDT when turn on the power switch.

When you need to degauss while using the monitor, select DEGAUSS on the OSD menu.

3. SMPS (Switching Mode Power Supply).

This circuit works with power of 100~240V.

The operation procedure is as follows:

- 1) AC input voltage is rectified and smoothed by the bridge diode (D901) and the capacitor (C905).
- 2) The rectified voltage (DC voltage) is applied to the primary coil of the transformer (T901).
- 3) The control IC (IC901) generates switching pulse to turn on and off the primary coil of the transformer (T901) repeatedly.
- 4) Depending on the turn ratio of the transformer, the secondary voltages appear at the secondary coil of the transformer (T901).
- 5) These secondary voltages are rectified by each diode (D924, D926, D923, D922, D921, D920) and operate the other circuits. (Deflection, Video Amplifier, etc.)

4. Display Power Management Circuit.

This circuit control power consumption of the monitor by detecting H and V sync signal. There is off Mode. When no horizontal or vertical sync signal input, the circuit consists of Q913 and Q915 becomes off mode. It's power consumption is below 8W.

5. X-ray Protection.

This circuit detects the rectified DC voltage comes from the FBT pin 4. If the high voltage of the FBT reaches up to about 30kV (abnormal state), H.V control (IC802) detects. It stops B⁺ voltage supplied to the FBT (T701), and high voltage is not be generated, (In the normal state, the high voltage is about 27kV.)

6. Micom(Microprocessor) Circuit.

The operating procedure of Micom (Microprocessor) and its associated circuit is as follows:

- 1) H and V sync signal is supplied from Signal Cable to the Micom (IC401).
- 2) The Micom (IC401) distinguishes polarity and frequency of H and V sync.
- 3) The Micom controls each OSD function signals. (H-size, H-position, V-size, etc.)
- 4) The controlled data of each mode is stored in IC402. User can adjust screen condition by each OSD function. The data of the adjust screen condition is stored automatically.

7. Horizontal and Vertical Synchronous Processor.

This circuit generates the horizontal drive pulse and the vertical drive pulse by taking sync-signal from Signal Cable. This circuit consists of the TDA4841(IC801) and the associated circuit.

8. Oscillating Circuit for D/D Converter.

This circuit generates the pulse wave which has the horizontal period by taking the output of the TDA4841 (IC801).

9. D/D (DC to DC) Converter.

This circuit supplies DC voltage to the horizontal deflection output circuit by decreasing DC 190V which is the secondary voltage of the SMPS in accordance with the input horizontal sync signal.

10. Side-Pincushion Correcting Circuit.

This circuit improves the Side-pincushion of the screen by mixing east-west wave to the output of the horizontal deflection D/D converter which is used for the supply voltage source (B⁺) of the deflection circuit.

11. D/D Drive & Convert Circuit.

This circuit is used for supplying B^+ voltage to horizontal deflection output transistor (Q801). This circuit makes to add side-pincushion correcting signal to B^+ voltage.

12. Horizontal Deflection Output Circuit.

This circuit makes the horizontal deflection by supplying the saw-tooth current to the horizontal deflection yoke.

13. High Voltage Output & FBT (Flyback Transformer).

The high voltage output circuit is used for generating pulse wave to the primary coil of the FBT (Flyback Transformer (T701)). A boosted voltage (about 27kV) appears at the secondary of the FBT and it is supplied to the anode of the CDT.

And there are another output voltages such as the dynamic focus voltage.

14. H-Linearity Correction Circuit.

This circuit corrects the horizontal linearity for each horizontal sync frequency.

15. Vertical Output Circuit.

This circuit takes the vertical wave from the TDA4841 (IC801) and performs the vertical deflection by supplying the saw-tooth wave current from the TDA4866 (IC601) to the vertical deflection yoke.

17. Dynamic Focus Output Circuit.

This circuit takes H and V parabola wave from the TDA4841 (IC801), and amplifies these waves to offer to the FBT (T701).

18. H & V Blanking and Brightness Control.

This circuit eliminates the retrace line by supplying a negative pulse to the G1 of the CDT. The brightness control circuit is used to control of the screen brightness by changing the video Black level.

19. Image Rotation (Tilt) Circuit.

This circuit corrects the tilt of the screen by supplying the image rotation signal to the tilt coil which is attached to the CDT near the deflection.

20. Moire Reduction Circuit

This circuit reduce interference between the periodical display pattern and the CDT's slot (or dot).

The positions of every other one dot video signal beams (red, green, and blue beam) are shifted finely, thus reducing interference.

21. OSD Circuit.

This circuit is used for performing the OSD (On-Screen- Display) function.

When a user selects the OSD Select/Adjustment control, the adjustment status displays on the screen.

22. Video Pre-Amp Circuit.

This circuit amplifies the analog video signal from 0-0.7V to 0-4V. This circuit is operated by taking the clamp, R, G, B drives, and contrast signals from the Micom (IC401).

23. Video Output Amp Circuit.

This circuit amplifies the video signal which comes from the video pre-amp circuit and amplified video signal is applied to the CDT cathode.

ADJUSTMENT

GENERAL INFORMATION

All adjustment are thoroughly checked and corrected when the monitor leaves the factory, but sometimes several adjustments may be required.

Adjustment should be following procedure and after warming up for a minimum of 30 minutes.

- Alignment appliances and tools.
 - IBM compatible PC.
 - Programmable Signal Generator.
(eg. VG-819 made by Astrodesign Co.)
 - EPROM or EEPROM with saved each mode data.
 - Alignment Adaptor and Software.
 - Digital Voltmeter.
 - White Balance Meter.
 - Luminance Meter.
 - High-voltage Meter.

AUTOMATIC AND MANUAL DEGAUSSING

The degaussing coil is mounted around the CDT so that automatic degaussing when turn on the monitor. But a monitor is moved or faced in a different direction, become poor color purity cause of CDT magnetized, then press DEGAUSSING on the OSD menu.

ADJUSTMENT PROCEDURE & METHOD

- Install the cable for adjustment such as Figure 1 and run the alignment program on the DOS for IBM compatible PC.
- Set external Brightness and Contrast volume to max position.

1. Adjustment for B⁺ Voltage.

- 1) Display cross hatch pattern at Mode 8.
- 2) Adjust C921 (+) voltage to $190V \pm 0.2V$ with **VR901**.

2. Adjustment for High-Voltage.

- 1) Display cross hatch pattern at Mode 8.
- 2) Adjust CDT Anode voltage to $27kV \pm 0.2kV$ with **VR801**.

3. Adjustment for Factory Mode (Preset Mode).

- 1) Display cross hatch pattern at Mode 1-9.
- 2) Run alignment program for EG994G on the IBM compatible PC.
- 3) EEPROM → ALL CLEAR → Y(Yes) command.
<Caution> Do not run this procedure unless the EEPROM is changed. All data in EEPROM (mode data and color data) will be erased.
- 4) COMMAND → PRESET START → Y(Yes) command.
- 5) DIST. ADJ. → FOS. ADJ command.

- 6) Adjust H-POSITION as arrow keys to center of the screen.
- 7) Adjust H-SIZE as arrow keys to $350 \pm 2mm$.
- 8) Adjust V-POSITION as arrow keys to center of the screen.
- 9) Adjust V-SIZE as arrow keys to $262 \pm 2mm$.
- 10) Adjust TILT as arrow keys to be the best condition.
- 11) Adjust SIDE-PIN(Side-Pincushion) as arrow keys to be the best condition.
- 12) Adjust TRAPEZOID as arrow keys to be the best condition.
- 13) Display cross hatch pattern at Mode 8.
- 14) DIST. ADJ. → BALANCE DATA command.
- 15) Adjust balance of Pin-Balance as arrow keys to be the best condition.
- 16) Adjust parallelogram as arrow keys to be the best condition.
- 17) Save of the Mode.
- 18) Save of the System.
- 19) Display from Mode 8 and repeat above from number 5) to 16).
- 20) COMMAND → PRESET EXIT → Y (Yes) command.

5. Adjustment for White Balance and Luminance.

- 1) Set the White Balance Meter.
- 2) Press the DEGAUSSING on the OSD menu for demagnetization of the CDT.
- 3) Display color 0,0 pattern at Mode 8.
- 4) COMMAND → PRESET START → Y(Yes) command.
- 5) Set Bightness and Contrast to max position.
- 6) COLOR ADJ. → BIAS ADJ. command of the alignment program.
- 7) Check whether blue color or not at R-BIAS and G-BIAS to min position, B-BIAS to data (75:HEX(5A)) position and Sub-Bightness to max(90:HEX(5A)) position. If it's not blue color, the monitor must repair.
- 8) Adjust Screen control on the FBT to $0.15 \pm 0.02FL$ of the raster luminance.
- 9) Adjust R-BIAS and G-BIAS command to $x=0.283 \pm 0.006$ and $y=0.298 \pm 0.006$ on the White Balance Meter with PC arrow keys.
- 10) Adjust SUB-Brightness command to $0.6 \pm 0.05FL$ of the raster luminance.
- 11) Display color 15,0 Full-white pattern(Pre-set size) at mode 8.
- 12) DRIVE ADJ command.
- 13) Set B-DRIVE to 100:HEX(64) at DRIVE of the alignment program.
- 14) Adjust R-DRIVE and G-DRIVE command to white balance $x=0.283 \pm 0.003$ and $y=0.298 \pm 0.003$ on the White Balance Meter with PC arrow keys.

- 15) Display color 15,0 box patten(70x70mm) at Mode 8.
- 16) Adjust SUB-CONTRAST command to 48 ± 1 FL of the raster luminance.
- 17) Display color 15,0 full white patten at Mode 8.
- 18) Set the Brightness and Contrast to max.
- 19) COLOR ADJ. → LUMINANCE → ABL command.
- 20) Adjust ABL to 34 ± 1 FL of the luminance.
- 21) Exit from the program.

5. Input EDID Data.

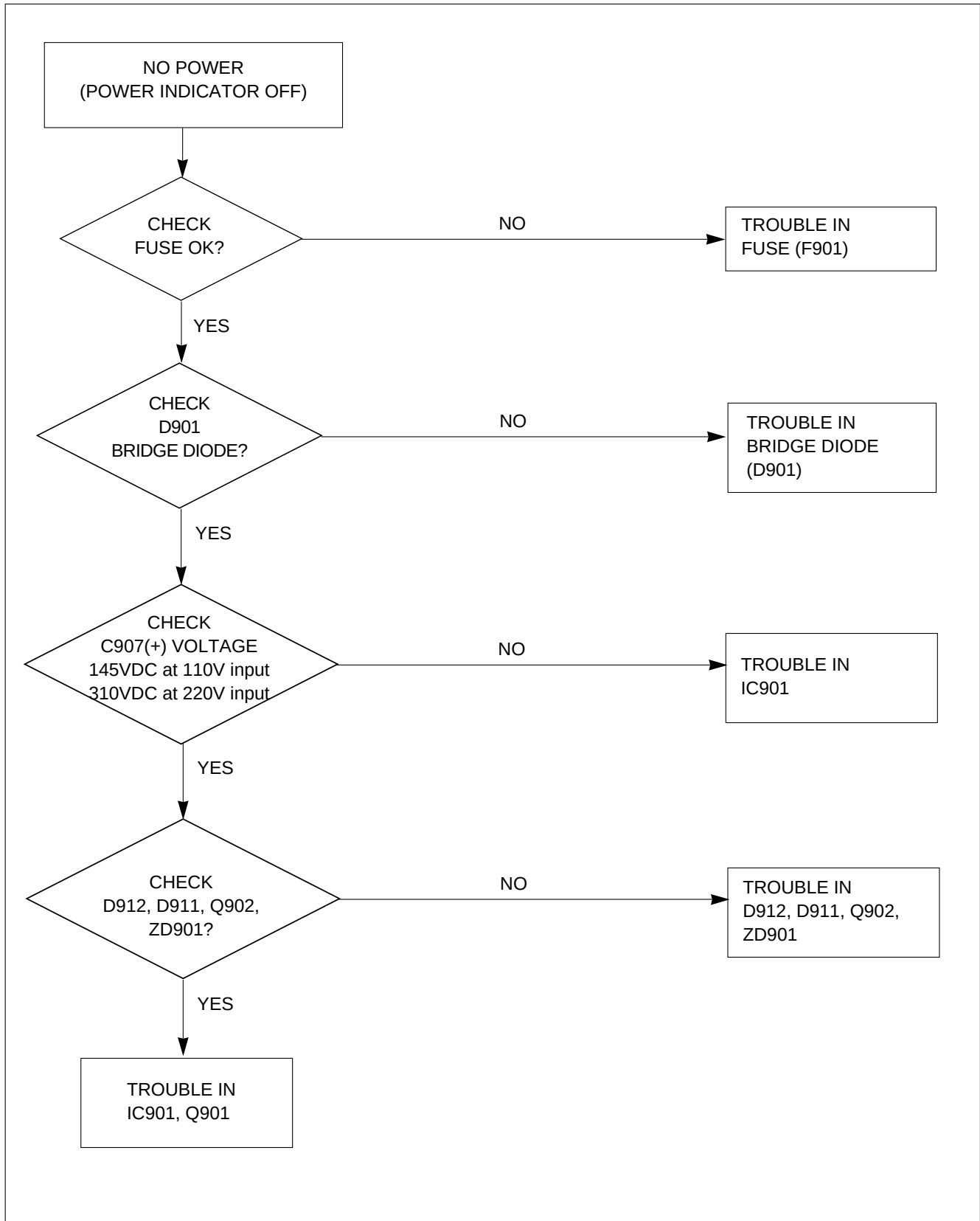
- 1) Display color 15,0 cross hatch pattern at Mode 8.
- 2) EEPROM → Write EDID command and confirm
"EDID Write OK!!" message of monitor.
- 3) Exit from the alignment program.
- 4) Power switch OFF/ON for EDID data save.

6. Adjustment for Focus.

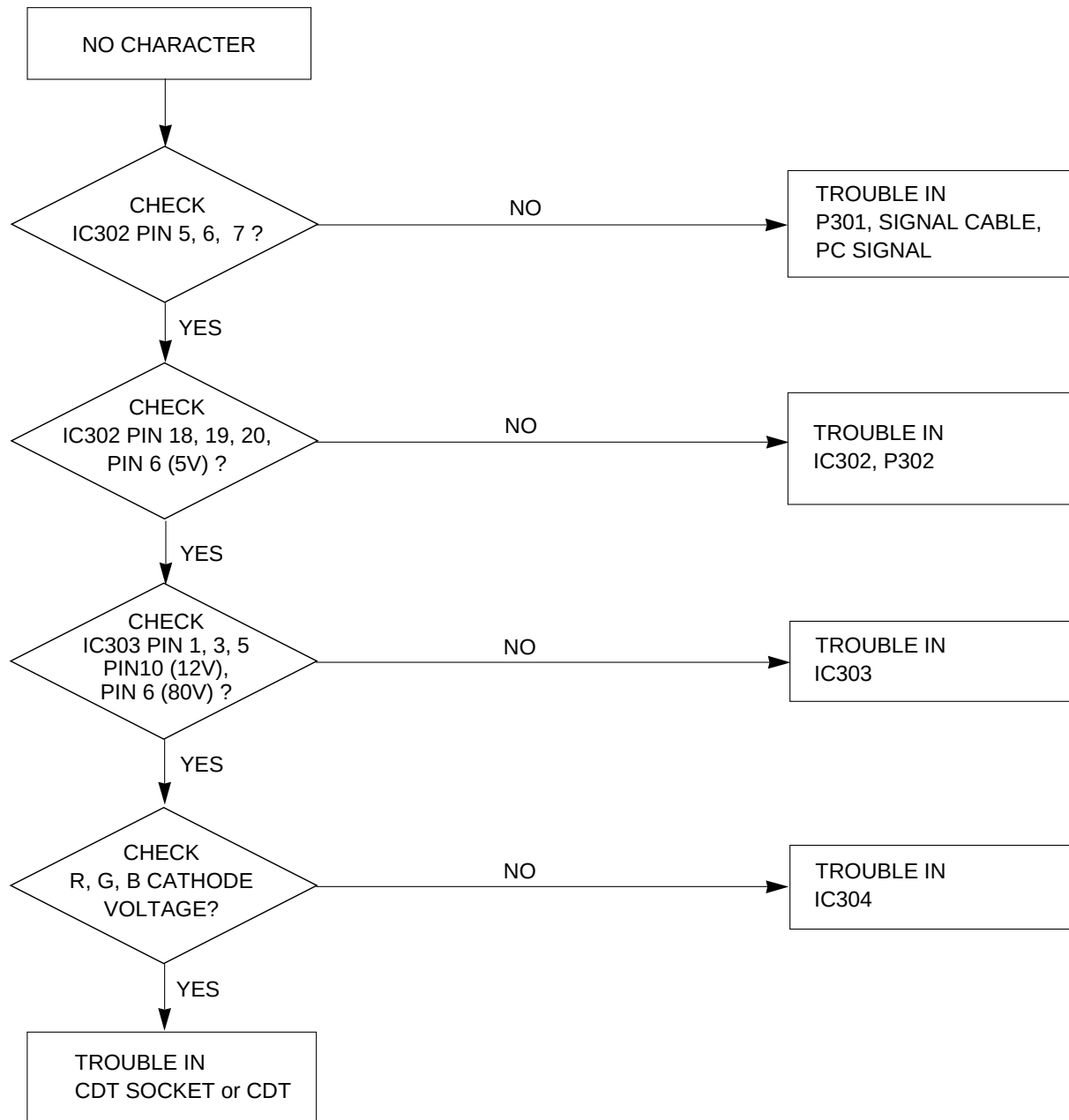
- 1) Display H character in full screen at Mode 8.
- 2) Adjust two Focus control on the FBT that focus should be the best condition.

TROUBLESHOOTING GUIDE

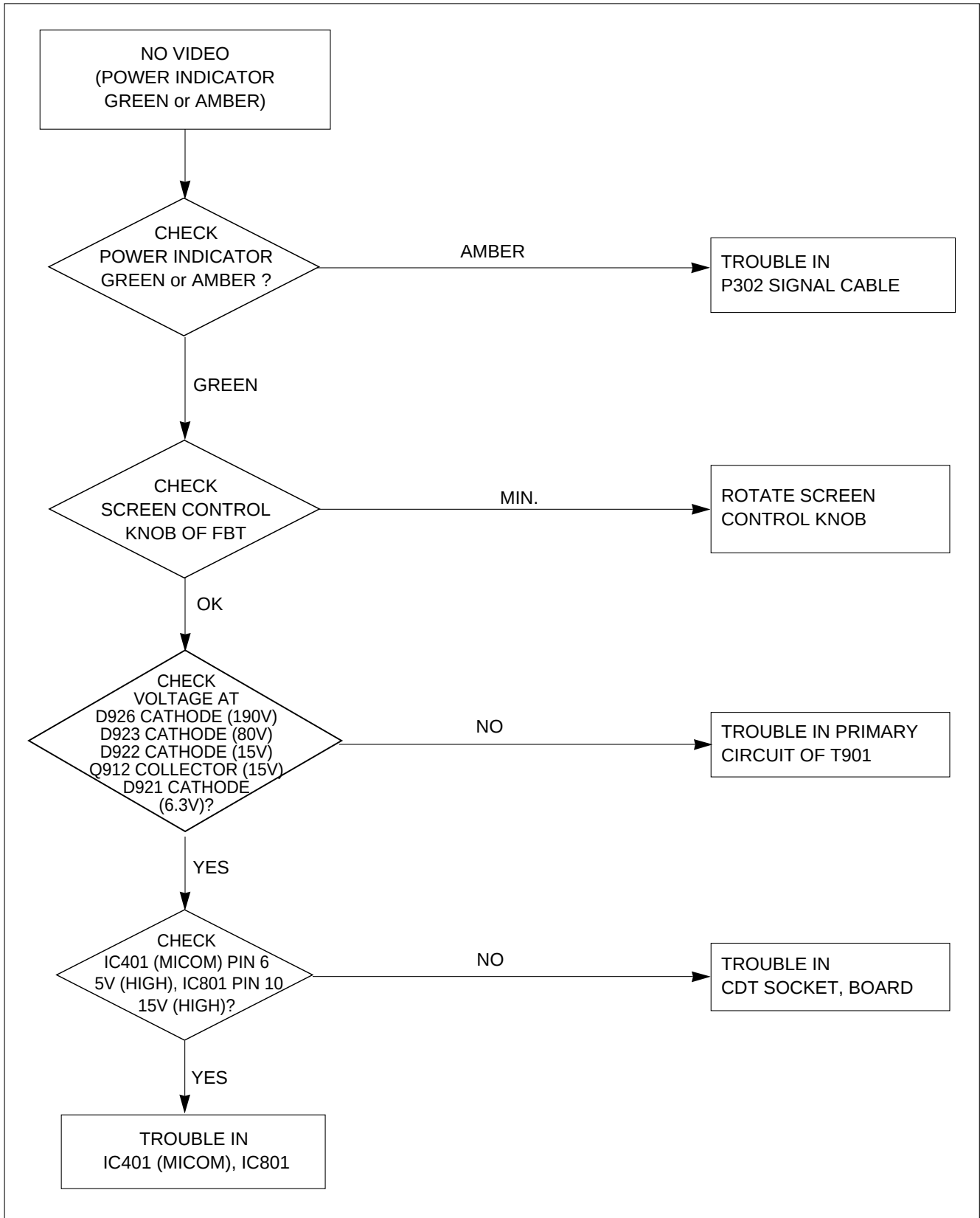
1. NO POWER



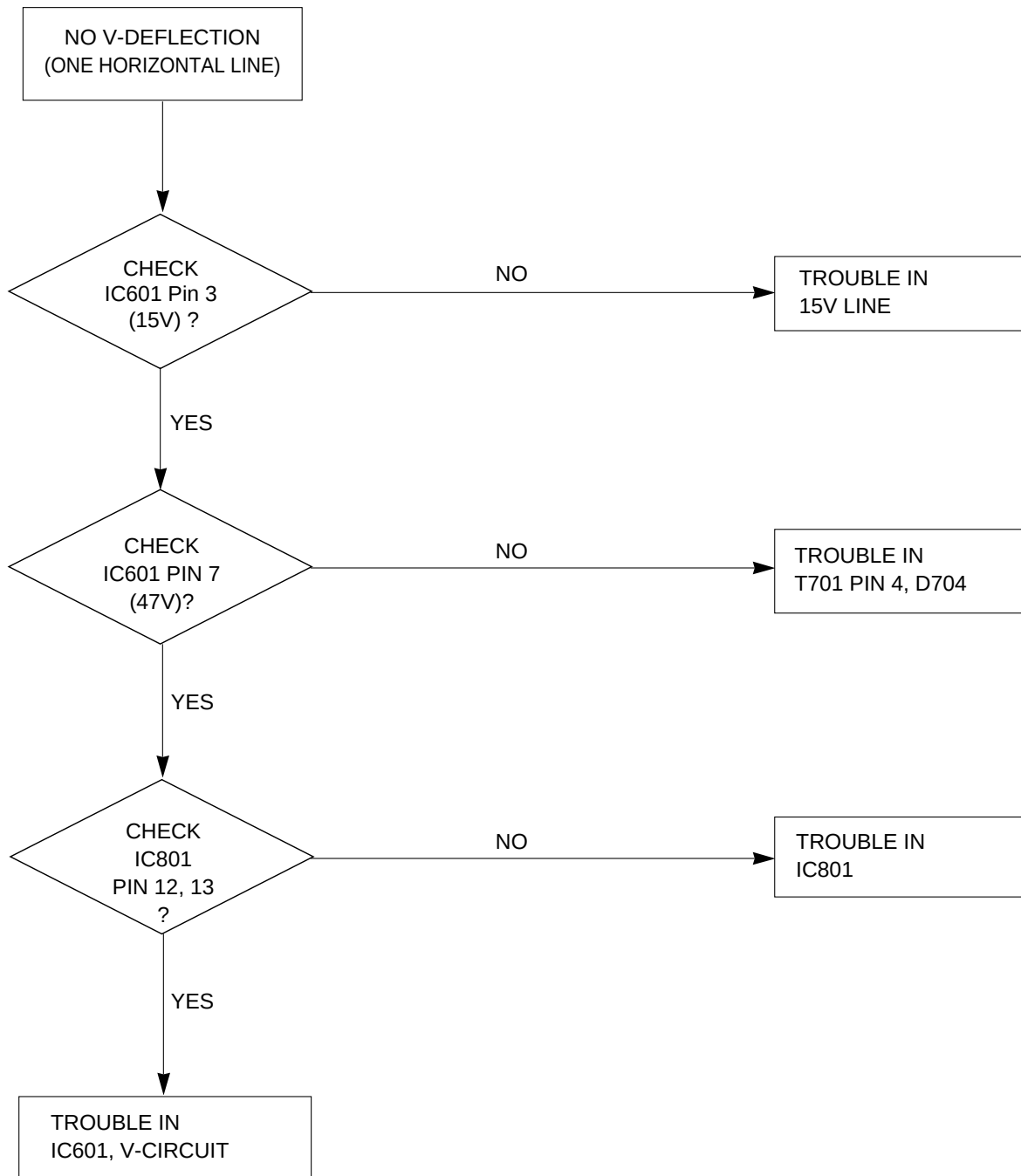
2. NO CHARACTER



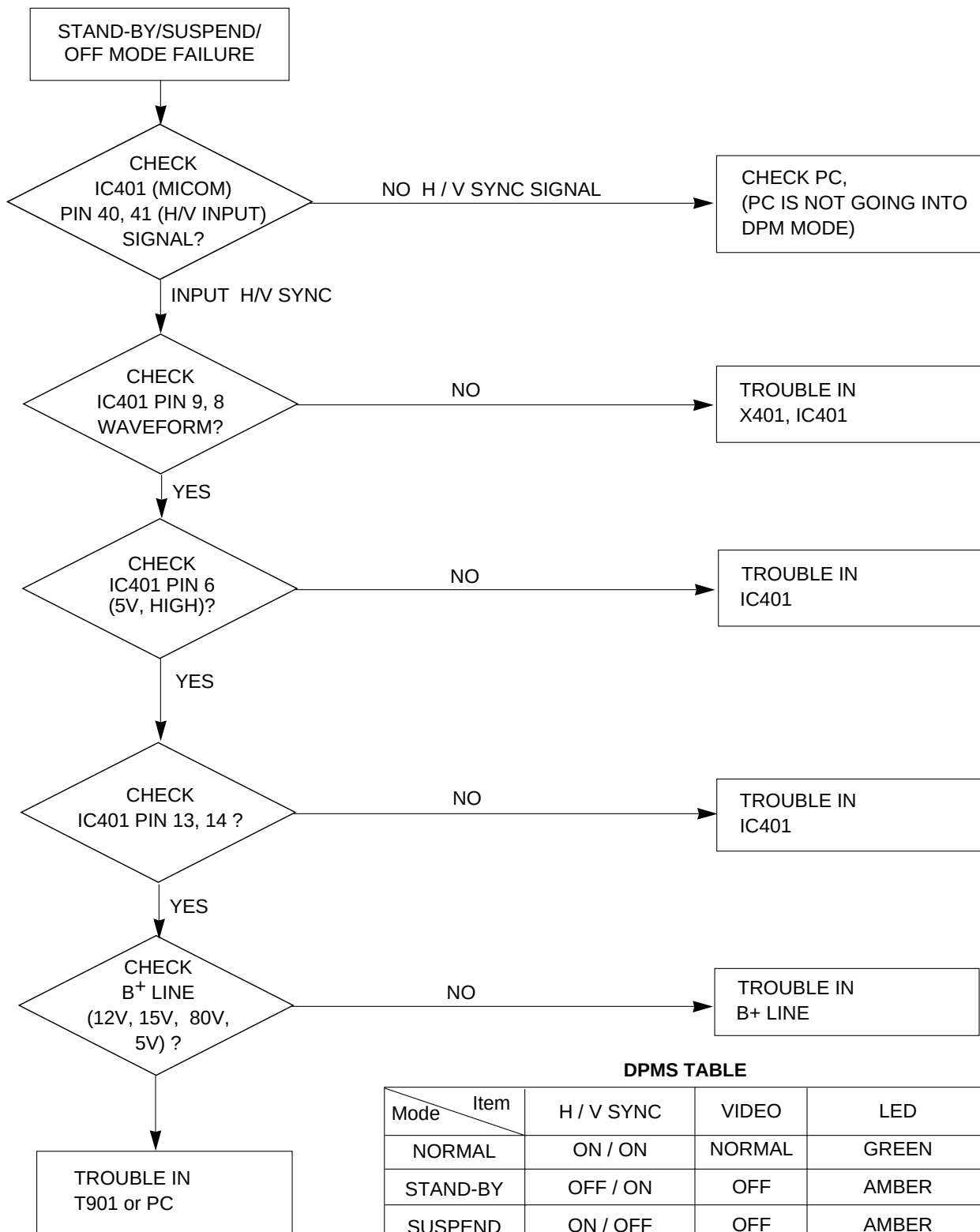
3. NO RASTER



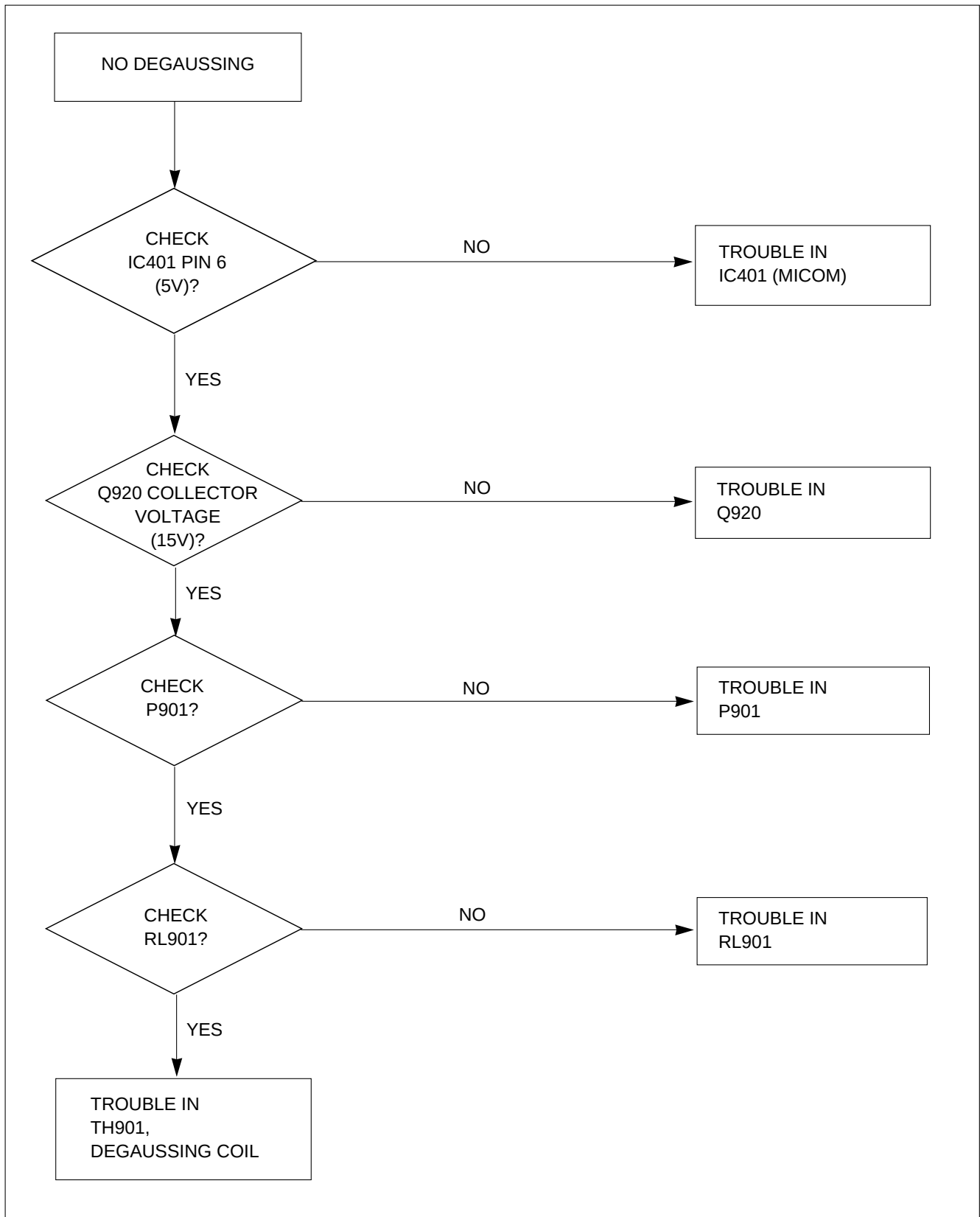
4. NO VERTICAL DEFLECTION



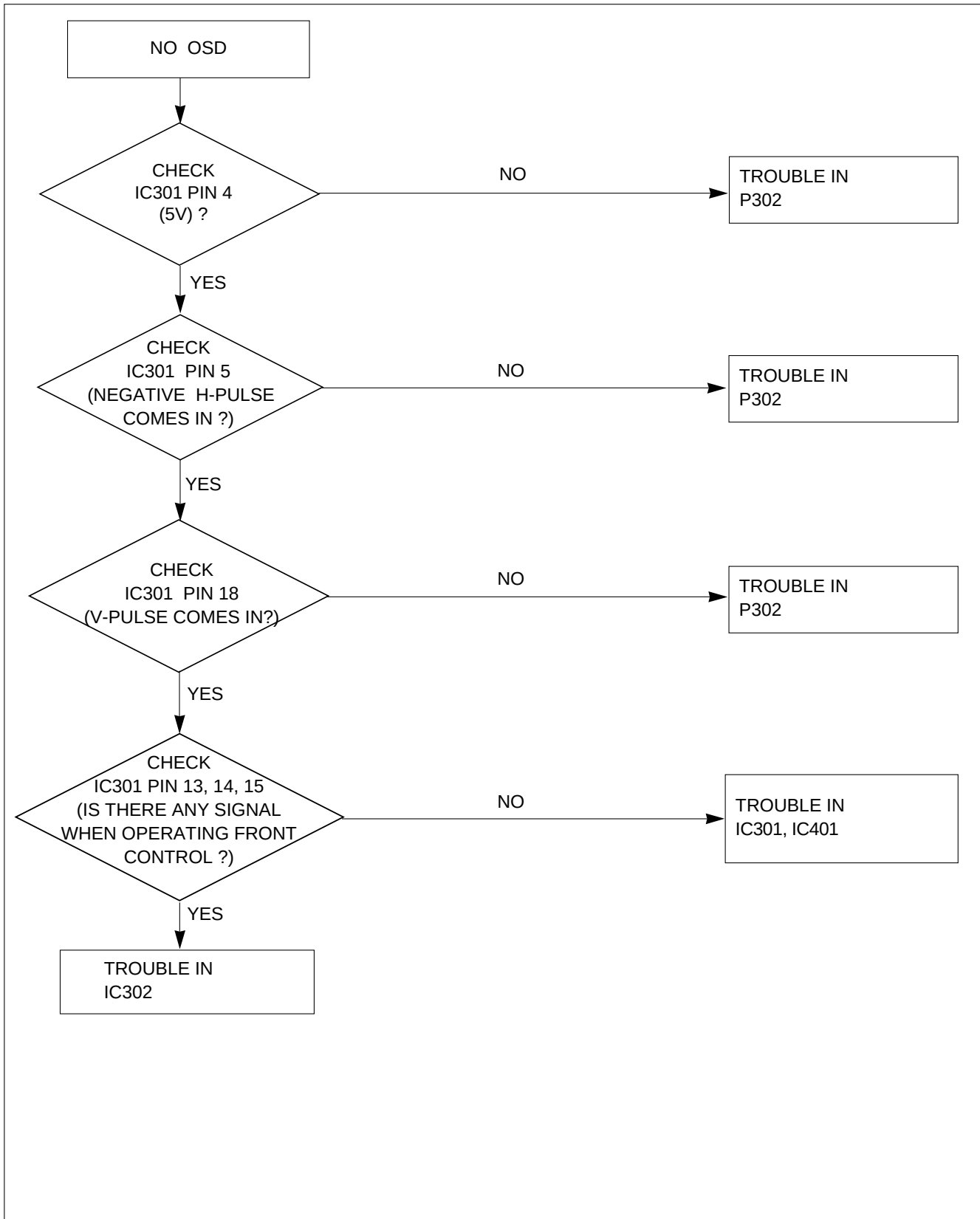
5. TROUBLE IN DPM



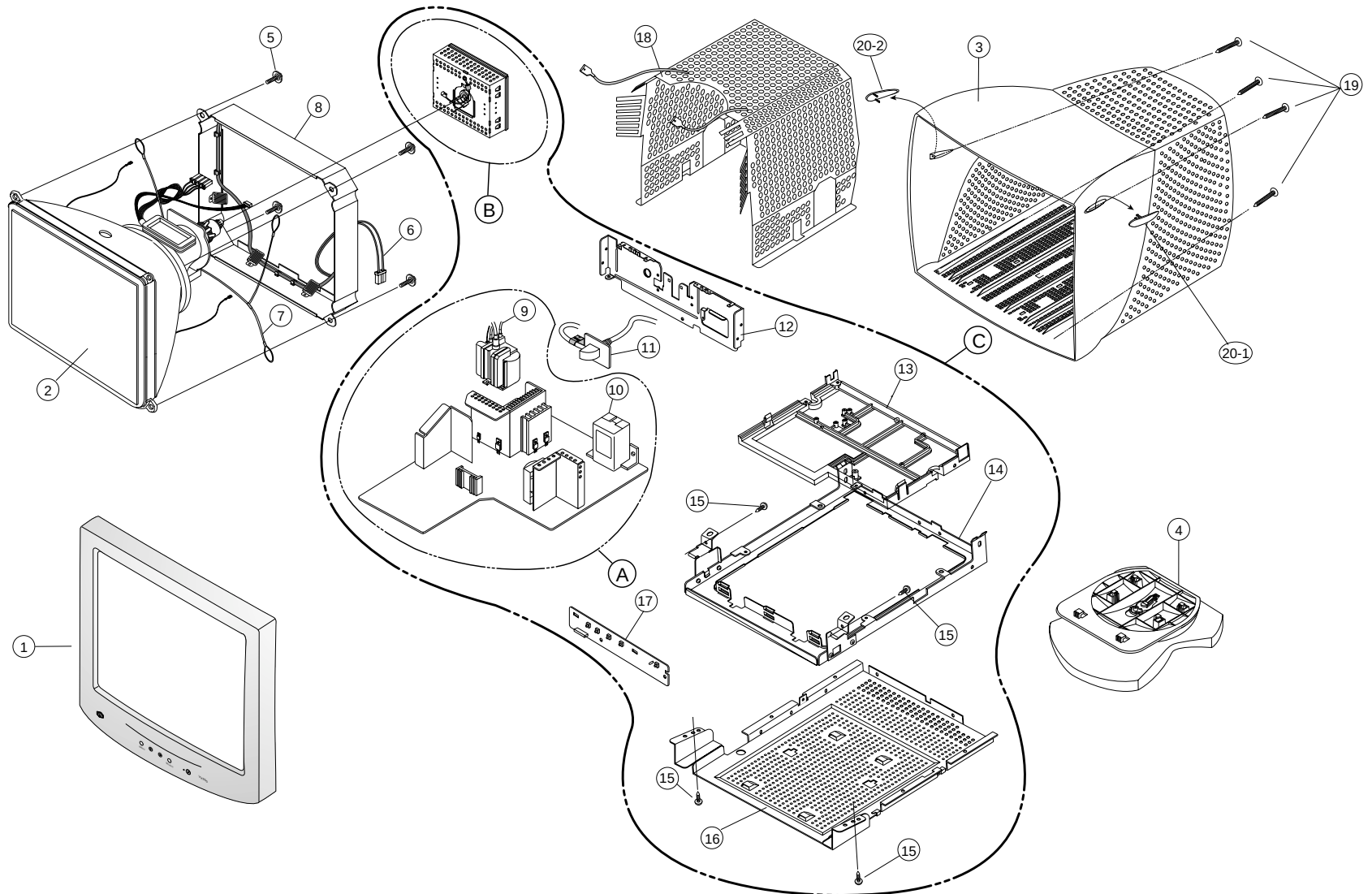
6. NO DEGAUSSING



7. TROUBLE IN OSD



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKC080A	CABINET ASSEMBLY, EG994G G/WAY TKC073 320T (ER31)SPRAY
2	6318L19001B	CDT(CIRC), M46QEF903X 03N6LD LG-PHILIPS 95KHZ 29.1MM FLAT
3	3809TKC030D	BACK COVER ASSEMBLY, EG994G TKC033 320T 8C793
4	3043TKK067D	TILT SWIVEL ASSEMBLY, EG994G B042/T048 8C793, HF350U
5	339-002K	SCREW ASSEMBLY, TAPTITE P TYPE D5.0 L25.0 MSWR/FZMY .
6	6140TC2006D	COIL, DEGAUSSING, 75D-437 GET 0.45MM,110T,16.5 OHM,L1330,CS990E
7	6868T19003B	CDT EARTH, CS990E TIN WIRE BRAID(96)
8	4951TKS045M	METAL ASSEMBLY, FRAME EG994G_MX-LOCAL
9	6174T13010C	FBT (FLY BACK TRANSFORMER), FQM19A008,EB990G SAMSUNG 19"
	6174T11002F	FBT (FLY BACK TRANSFORMER), Y268202, EB990G HITACHI 19"
10	6200TJB001H	FILTER(CIRC), EMC, 02MD1 DELTA BK W/O GND
11	6850TA9004N	CABLE, D-SUB, UL 2990-9C(7.5) AT 1870MM BLACK(9930) EG784G DM
	6850TA9004P	CABLE, D-SUB, UL 2990-9C(7.5) AT 1870MM BLACK(9930) EG784G GM
12	4814TKK208C	SHIELD, REAR BRKT_VE(EG994G)
13	4810TKM040D	BRACKET, CB997E MAIN ABS "A-B" CORE
14	4951TKS030Y	METAL ASSY, SHIELD KCG992E (LGEMX)-LOCAL
15	332-102A	SCREW, PTP+4*8 (MSWR/FZMY)
16	4951TKK015C	METAL ASSY, SHIELD BOTTOM-CG991C
17	6871TST297B	PWB(PCB) ASSEMBLY, SUB, EG994G CONTROL TOTAL G/WAY CA-111
18	4815TKT010Q	SHIELD ASSEMBLY, TOP KEG994G-LGEMX
19	332-102M	SCREW, PTP 4*20[MSWR/BK]
20-1	3550TKK158C	COVER, EG994G SCREW (R) 320T 8C793(B/K)
20-2	3550TKK159C	COVER, EG994G SCREW (L) 320T 8C793(B/K)
A	3313T19044B	MAIN TOTAL ASSEMBLY, EG994G G/WAY CA-111
B	6871TVT285B	PWB(PCB) ASSEMBLY, VIDEO, EG994G VIDEO TOTAL G/WAY CA-111
C	6871TMT306B	PWB(PCB) ASSEMBLY, MAIN, EG994G KLUSMM G/WAY CA-111 TOTAL

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.

* NOTE : **S** SAFETY Mark 
AL ALTERNATIVE PARTS

DATE: 2002. 04. 15.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITORS				
		C201	0CN1040K949	0.1M 50V Z F TA52
		C301	OCE477CF618	470UF SHL 16V M FL TP5
		C302	OCE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C303	181-288B	MKT 100V 104JTR PHS26104
		C304	181-288N	MKT 100V 103JTR PHS86103
		C305	181-288N	MKT 100V 103JTR PHS86103
		C306	0CN1040K949	0.1M 50V Z F TA52
		C307	0CN1040K949	0.1M 50V Z F TA52
		C308	0CN1040K949	0.1M 50V Z F TA52
		C309	181-288B	MKT 100V 104JTR PHS26104
		C310	0CK1040K945	0.1UF 50V Z F TR
		C312	181-288B	MKT 100V 104JTR PHS26104
		C313	181-288B	MKT 100V 104JTR PHS26104
		C314	181-288B	MKT 100V 104JTR PHS26104
		C315	181-288B	MKT 100V 104JTR PHS26104
		C316	0CK10302940	0.01M 2KV Z F S
		C317	OCE106CN638	10UF SHL,SD 100V M FM5 TP 5
		C318	181-288B	MKT 100V 104JTR PHS26104
		C319	0CK10302940	0.01M 2KV Z F S
		C320	OCE107CN630	100U SHL 100V M FM5
		C321	OCE107EF638	100UF KMG 16V M FM5 TP 5
		C322	0CN1040K949	0.1M 50V Z F TA52
		C323	OCE476EN618	47UF KMG 100V M FL TP 5
		C324	181-288B	MKT 100V 104JTR PHS26104
		C325	0CC3300K415	33P 50V J NP0 TP
		C326	181-288B	MKT 100V 104JTR PHS26104
		C327	181-288B	MKT 100V 104JTR PHS26104
		C329	181-288B	MKT 100V 104JTR PHS26104
		C330	181-288B	MKT 100V 104JTR PHS26104
		C332	181-288E	MKT 100V 474JTR PHS 26474
		C333	181-288E	MKT 100V 474JTR PHS 26474
		C334	181-288E	MKT 100V 474JTR PHS 26474
		C336	0CK1010W515	100P 500V K B TS
		C337	181-288B	MKT 100V 104JTR PHS26104
		C340	OCE227CF638	220UF SHL,SD 16V M FM5 TP 5
		C341	181-288B	MKT 100V 104JTR PHS26104
		C342	0CC2200W415	22PF 500V J NP0 TR
		C343	0CK1010K515	100PF 50V K B TR
		C345	0CK22202510	2200P 2KV K B S
		C346	0CC47001505	47PF 1KV K SL TR
		C347	0CC47001505	47PF 1KV K SL TR
		C348	0CK1040K945	0.1UF 50V Z F TR
		C349	181-288E	MKT 100V 474JTR PHS 26474
		C350	0CK2210K515	220P 50V K B TS
		C355	0CK1040K945	0.1UF 50V Z F TR
		C356	0CN6810K519	680P 50V K B TA52
		C401	0CC5600K415	56P 50V J NP0 TP
		C402	OCE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C403	0CK2710K515	270P 50V K B TS
		C404	0CK2710K515	270P 50V K B TS
		C405	0CK2710K515	270P 50V K B TS
		C406	0CC0400K115	4P 50V D NP0 TS
		C407	0CC0400K115	4P 50V D NP0 TS

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C408	0CN1040K949	0.1M 50V Z F TA52
		C410	0CK1040K945	0.1UF 50V Z F TR
		C417	0CK1040K945	0.1UF 50V Z F TR
		C452	0CE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C453	0CE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C454	0CK1040K945	0.1UF 50V Z F TR
		C455	0CK1040K945	0.1UF 50V Z F TR
		C459	0CK1010K515	100PF 50V K B TR
		C601	0CZZTFT001Q	ECQB1H183JM3 MATSUSHITA 50V
		C602	181-288B	MKT 100V 104JTR PHS26104
		C603	0CK1020W515	1000P 500V K B TS
		C604	OCE477CH618	470UF SHL 25V M FL TP5
		C605	OCE476CN618	47UF SHL 100V M FL TP5
		C701	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C702	0CE227CN618	220U SHL 100V M FL TP5
		C704	0CBZTBU003J	392J 20.0*12.5*7.5*10.0 800V J BUP FM10
		C705	0CE336CN638	33UF SHL,SD 100V M FM5 TP 5
		C707	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C708	OCE476CQ618	47U SHL 200V M FL TP5
		C709	181-477A	102J 19.5*12.0*7.0*7.5 250V J PU TP7.5
		C710	0CC3300K415	33P 50V J NP0 TP
		C711	0CQ4721N419	0.0047U 100V J POLY NI TP5
		C712	0CK2220K515	2200P 50V K B TS
		C713	0CE107CH638	100UF SHL,SD 25V M FM5 TP 5
		C730	OCE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C731	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C732	0CK1040K945	0.1UF 50V Z F TR
		C735	0CC1000W105	10PF 500V D SL TR
		C736	0CC1000W105	10PF 500V D SL TR
		C737	0CQ2221N419	2200PF 100V J PE NI TP
		C738	0CE685CN638	6.8UF SHL,SD 100V 20% TP 5 FM5
		C740	0CK10302945	0.01UF 2KV Z F TR
		C741	0CQ2231N419	0.022UF 100V J PE NI TP
		C742	0CK4710K515	470PF 50V K B TR
		C743	0CE106CN638	10UF SHL,SD 100V M FM5 TP 5
		C771	0CK6810W515	680P 500V K B TS
		C772	0CK4710W515	470P 500V K B TS
		C801	0CQ6821N419	6800PF 100V J PE NI TP
		C802	181-288B	MKT 100V 104JTR PHS26104
		C803	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C804	181-288D	MKT 100V 473JTR PHS26473
		C805	181-475E	222J 11.5*10.0*6.0*5.0 100V J PU TP5
		C806	0CE227CH638	220UF SHL,SD 25V M FM5 TP 5
		C807	181-288B	MKT 100V 104JTR PHS26104
		C808	0CC1000K115	10P 50V D NP0 TS
		C809	0CK1020K515	1000PF 50V K B TR
		C810	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C811	OCE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C812	OCE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C813	0CE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C814	0CK5610K515	560P 50V K B TS
		C815	0CE227CF638	220UF SHL,SD 16V M FM5 TP 5
		C817	OCE476CH638	47UF SHL,SD 25V M FM5 TP 5
		C818	181-288J	MKT 100V 563JTR PHS26563

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C819	181-477U	333J 19.5*13.0*7.5*250V J PU TP7.5
		C821	0CK1040K945	0.1UF 50V Z F TR
		C823	0CK1010K515	100PF 50V K B TR
		C832	0CK10102515	100PF 2KV K B TR
		C841	0CE107CR650	100UF SHL 250V M FM7.5 BULK
		C842	0CBZTTA002A	2000F D 2.5KV J M/PP NI TP7.5
		C843	0CQ3321N419	3300P 100V J POLY NI TP
		C844	0CBZTTA002A	2000F D 2.5KV J M/PP NI TP7.5
		C845	181-288B	MKT 100V 104JTR PHS26104
		C846	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C847	0CQ2221N419	2200PF 100V J PE NI TP
		C848	0CK47101515	470P 1KV K B TS
		C849	0CK6810W515	680P 500V K B TS
		C850	0CK1040K945	0.1UF 50V Z F TR
		C851	0CK1040K945	0.1UF 50V Z F TR
		C852	0CN1040K949	0.1M 50V Z F TA52
		C854	181-482J	394J 18.0*19.0*12.0*7.5 250V J MPP TP7.5
		C855	181-477Y	683JF 20.0*16.5*9.5*7.5 250V J PU TP7.5
		C856	181-305Y	MPP 250 204J S=10.0
		C857	181-305N	105J 26.0*22.5*14.0*15.0 250V J MPP FM15
		C858	181-303A	104J 20.5*18.5*10.5*10.0 250V J PU FM10
		C859	181-303C	154J 30.0*17.5*10.5*20.0 250V J PU FM20
		C860	0CN1040K949	0.1M 50V Z F TA52
		C861	0CN1040K949	0.1M 50V Z F TA52
		C863	0CN1040K949	0.1M 50V Z F TA52
		C864	0CN1040K949	0.1M 50V Z F TA52
		C865	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C891	0CZZTFT001J	ECQB1H562JM3 562J 50V TP5.0
		C892	0CZZTFT001M	ECQB1H103JM3 103J 50V TP5.0
		C893	181-288B	MKT 100V 104JTR PHS26104
		C894	0CZZTFT001L	ECQB1H822JM3 822J 50V TP5.0
		C895	181-288B	MKT 100V 104JTR PHS26104
		C896	181-288Q	MKT 100V 154JTR PHS26154
		C902	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5
		C903	0CK10101515	100PF 1KV K B TR
		C904	181-304V	393J 19.5*15.5*9.5*10.0 400V J PU FM10
		C905	181-296F	330UF SMH(30*40) 400V M VNSN BULK
		C906	0CE475CN638	4.7UF SHL,SD 100V M FM5 TP 5
		C907	0CE476CH638	47UF SHL,SD 25V M FM5 TP 5
		C908	0CK1040K945	0.1UF 50V Z F TR
		C909	181-288T	MKT 100V 223KTR PHS85223
		C910	0CZZTFT001P	ECQB1H153JM3 153J 50V TP5.0
		C912	0CE475CK638	4.7UF SHL,SD 50V M FM5 TP 5
		C914	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5
		C915	0CE476CH638	47UF SHL,SD 25V M FM5 TP 5
		C916	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5
		C917	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5
		C920	0CK22101515	220P 1KV K B TP5
		C921	0CE227CR650	220UF SHL 250V M FM7.5 BULK
		C922	0CE227EN630	220UF KMG 100V M FM5 BULK
		C923	0CK10101515	100PF 1KV K B TR
		C925	0CE228CH618	2200U SHL 25V M FL TP5
		C926	0CE108EF618	1000UF KMG 16V M FL TP 5
		C927	0CE227CH638	220UF SHL,SD 25V M FM5 TP 5
		C928	0CE108EF618	1000UF KMG 16V M FL TP 5
		C929	0CK1020K515	1000PF 50V K B TR
		C930	181-288H	MKT 100V 333JTR PHS 86333
		C953	0CE477CF638	470UF SHL TYPE 16V M FM5
		C958	0CE476CH638	47UF SHL,SD 25V M FM5 TP 5
		C970	0CE476CH638	47UF SHL,SD 25V M FM5 TP 5

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
			DIODES	
		D201	0DL305029BA	LTL-305DJ-0C2 TP LITEON
		D301	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D302	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D303	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D304	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D305	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D306	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D307	0DS124409AA	1SS244 TP ROHM KOREA
		D308	0DS124409AA	1SS244 TP ROHM KOREA
		D309	0DS124409AA	1SS244 TP ROHM KOREA
		D310	0DS124409AA	1SS244 TP ROHM KOREA
		D311	0DS124409AA	1SS244 TP ROHM KOREA
		D312	0DS124409AA	1SS244 TP ROHM KOREA
		D313	0DS124409AA	1SS244 TP ROHM KOREA
		D314	0DS124409AA	1SS244 TP ROHM KOREA
		D315	0DS124409AA	1SS244 TP ROHM KOREA
		D318	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D319	0DR140059DA	1N4005TB52 TP LITEON DO41 600V
		D401	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D402	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D404	0RD4701Q609	4.70K 1/4W(3 5% TA52
		D405	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D451	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D452	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D453	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D454	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D701	0DR400409AB	UF4004 TP G.I DO204AL 400V 1A
		D702	0DR400409AB	UF4004 TP G.I DO204AL 400V 1A
		D704	0DD100009DE	RGP10G TP G.I DO204AL 400V 1A
		D706	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D707	0DD100009DA	RGP10J TP G.I DO204AL 600V 1A
		D708	0DRFJ00011A	YG339D6F208 FUJI ST TO220 -400V
		D709	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D731	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D732	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D733	0DD400709CB	UF4007 TP G.I DO204AL 1000V 1A
		D734	0DD400709CB	UF4007 TP G.I DO204AL 1000V 1A
		D735	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D736	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D737	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D738	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D739	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D771	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D772	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D773	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D801	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D802	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D803	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D804	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D805	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D808	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D811	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D812	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D831	0DR260400AA	S2L60-4004P15 BK SHINDENGEN
		D833	0DR140059DA	1N4005TB52 TP LITEON DO41 600V
		D834	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D837	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D838	0DR200000EA	FMQ-G2FMS BK SANKEN NON 1500V
		D839	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D840	0DD100009DA	RGP10J TP G.I DO204AL 600V 1A 30A
		D861	0DD140009AA	EK14 V(1) TP SANKEN E/EO-TMD 40V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D901	0DD360000DB	D3SB60 SHINDENKEN
		D902	0DD400709CB	UF4007 TP G.I DO204AL 1000V
		D903	0DD100009DE	RGP10G TP G.I DO204AL 400V
		D904	0DD100009DA	RGP10J TP G.I DO204AL 600V 1A 30A
		D905	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D906	971-0016	TIN HDC 0.60H
		D907	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D908	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D910	0DR153979AA	1N5397GP TP G.I DO201AD 600V
		D911	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D912	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D920	0DRSD00079A	D2L20U SHINDENGEN TP DO-204AC
		D921	0DRSD00079A	D2L20U SHINDENGEN TP DO-204AC
		D922	0DR320400AA	S3L20U-4004P15 BK SHINDENGEN
		D923	0DR360000AB	D3L60 BK SHINDENGEN ITO220
		D924	0DR260400AA	S2L60-4004P15 BK SHINDENGEN
		D925	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D926	0DR260400AA	S2L60-4004P15 BK SHINDENGEN
		D927	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D928	971-0016	TIN HDC 0.60H
		ZD201	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD202	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD203	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD303	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD306	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD402	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD403	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD404	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD405	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD407	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD408	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD409	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD410	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD601	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD711	0DZ910009AH	MTZJ9.1B TP ROHM-K DO34 500MW
		ZD712	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD802	0DZ180009BD	GDZJ18B TP GRANDE DO34 0.5W
		ZD804	0DZ180009BD	GDZJ18B TP GRANDE DO34 0.5W
		ZD901	0DZ240009BJ	GDZJ24B TP GRANDE DO34 500MW
ICs				
		IC301	0IPRPNV009A	NT68275-00027 NOVATEK 16P, DIP ST
		IC302	0IPRPNS008A	LM1267NA NATIONAL SEMICONDUCTOR
		IC303	0IPRPNS007A	LM2463TA NATIONAL SEMICONDUCTOR
		IC304	0IPRPNS005A	LM2480NA NATIONAL SEMICONDUCTOR
		IC401	0IZZTSZ178A	WT62P1 WELTREND 42 ST MTP
		IC402	0ISG240860A	M24C08-BN6 8DIP BK 8K SERIAL IIC BUS
		IC601	0IPH486600C	TDA4866J 9P ST VERTICAL OUTPUT IC
		IC801	0IPRPPH005A	TDA4841PS PHILIPS 32P,SDIP ST IIC-BUS
		IC802	0IMI625010A	M62501P 16P4 BK INTERFACE PWM IC
		IC901	0ISS384200A	KA3842B (PWM)
		IC904	0ISS781200F	KA7812
		IC905	0ISS780500F	KA7805
COILS & COREs				
		FB201	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB301	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RADIAL
		FB302	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB303	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB304	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RADIAL

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		FB305	125-155A	BFD3510R2FG SAMWHA 3.5*10MM
		FB306	125-022J	FERRITE KQ-1 JS 3.5*5.0MM AXIAL
		FB307	125-022J	FERRITE KQ-1 JS 3.5*5.0MM AXIAL
		FB308	125-022J	FERRITE KQ-1 JS 3.5*5.0MM AXIAL
		FB309	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB310	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB312	125-155A	BFD3510R2FG SAMWHA 3.5*10MM
		FB313	125-155K	BFS3550A0FG SAMWHA 3.5*5.0MM
		FB314	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB315	125-155A	BFD3510R2FG SAMWHA 3.5*10MM
		FB316	125-155A	BFD3510R2FG SAMWHA 3.5*10MM
		FB317	125-155A	BFD3510R2FG SAMWHA 3.5*10MM
		FB401	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB402	125-155N	BFD3565R2FG SAMWHA 3.5*6.5MM
		FB403	125-155L	BFS3580A0FG SAMWHA 3.5*8.0MM
		FB841	125-155P	BFS2550R2FG SAMWHA 2.5*5.0MM
		FB902	125-155H	BFS3510A0FG SAMWHA 3.5*10MM
		FB903	125-155C	BFD3514R2FG SAMWHA 3.5*14MM
		FB904	125-155H	BFS3510A0FG SAMWHA 3.5*10MM
		FB905	125-155C	BFD3514R2FG SAMWHA 3.5*14MM
		FB906	125-155H	BFS3510A0FG SAMWHA 3.5*10MM
		FB907	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB908	125-155H	BFS3510A0FG SAMWHA 3.5*10MM
		L304	0LA1000K119	100UH K 2.3*3.4 TP
		L305	0LA0390K119	0.39UH K 2.3*3.4 TP
		L306	0LA0390K119	0.39UH K 2.3*3.4 TP
		L307	0LA0390K119	0.39UH K 2.3*3.4 TP
		L308	971-0054	TIN 50MM TAPING
		L309	971-0054	TIN 50MM TAPING
		L310	971-0054	TIN 50MM TAPING
		L701	6140TB2009C	NO CORE 10UH 0.12*15MM 50.5T FILTER
		L801	6140TY2011B	- GET DR14*15 EB990G H-LIN
		L806	150-985N	DR10*10 4.7UH 0.16MM 322.5T FILTER
TRANSISTOR				
		Q301	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q302	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q451	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92
		Q452	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92
		Q453	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO92
		Q454	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92
		Q455	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92
		Q456	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO92
		Q704	0TFFN10003B	INFINEON SPA07N60C3 ST TO220F
		Q705	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO92
		Q706	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92
		Q707	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q708	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q721	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q722	0TR390600CA	2N3906 TP SAMSUNG TO92 NPN
		Q723	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q724-L	0TR463300AB	2SC4633(LS-CB11) BK SANYO LS-CB11
		Q725-R	0TRFC10001A	FAIRCHILD KSC5042F-YDTU ST
		Q771	0TR920009AB	KSP92 TP SAMSUNG TO92 HIGH
		Q802	0TR471009AA	KSD471AC-Y TP SAMSUNG TO92
		Q803	0TR564009AB	KSB564AC-YTA TP SANSUNG TO92
		Q806	0TR471009AA	KSD471AC-Y TP SAMSUNG TO92
		Q807	0TR564009AB	KSB564AC-YTA TP SANSUNG TO92
		Q808	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92
		Q810	0TR114009AB	DTK114ES TP ROHM-K SPT NPN
		Q832	0TF283509AA	2SK2835(TP) TP TOSHIBA 200V 5A NON

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		Q833	0TF306000AA	2SJ306 BK SANYO -250V -3A TO220ML
		Q834	0TR231609AA	KSC2316-Y TP SAMSUNG TO92L
		Q836	0TF630000CA	IRFS630A BK SAMSUNG 200V 6.5A
		Q837	0TF630000CA	IRFS630A BK SAMSUNG 200V 6.5A
		Q838	0TF630000CA	IRFS630A BK SAMSUNG 200V 6.5A
		Q839	0TF640000CA	IRFS640A BK SAMSUNG 200V 9A
		Q841	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q842	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q843	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q844	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q902	0DR100609BA	MCR100-6RLRA TP MOTOROLA
		Q903	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q912	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO92L
		Q913	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q914	0TR928009AB	KSA928A-Y TP SAMSUNG TO92L
		Q915	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q920	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
RESISTORS				
		R201	0RD0912Q609	91 OHM 1/4 W (3.4) 5% TA52
		R202	0RD2200Q609	220 1/4W(3 5% TA52
		R203	0RD9100Q609	910 1/4W(3 5% TA52
		R204	0RD4300Q609	430 OHM 1/4 W(3.4) 5.00% TA52
		R205	0RD7500Q609	750 OHM 1/4 W (3.4) 5% TA52
		R207	0RD1001Q609	1K 1/4W(3 5% TA52
		R208	0RD1001Q609	1K 1/4W(3 5% TA52
		R209	0RD2200Q609	220 1/4W(3 5% TA52
		R210	0RD2200Q609	220 1/4W(3 5% TA52
		R301	0RD0752Q609	75 1/4W(3 5% TA52
		R302	0RD0752Q609	75 1/4W(3 5% TA52
		R303	0RD0752Q609	75 1/4W(3 5% TA52
		R304	0RD0332Q609	33 1/4W(3 5% TA52
		R305	0RD0332Q609	33 1/4W(3 5% TA52
		R306	0RD0332Q609	33 1/4W(3 5% TA52
		R307	0RD5601Q609	5.60K 1/4W(3 5% TA52
		R308	0RD1002Q609	10K 1/4W(3 5% TA52
		R309	0RD5601Q609	5.60K 1/4W(3 5% TA52
		R310	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R311	0RN1002F409	10K 1/6W 1 TA52
		R312	0RD0472Q609	47 1/4W(3 5% TA52
		R313	0RD1000Q609	100 1/4W(3 5% TA52
		R314	0RD1001Q609	1K 1/4W(3 5% TA52
		R315	0RD1000Q609	100 1/4W(3 5% TA52
		R316	0RD1000Q609	100 1/4W(3 5% TA52
		R317	0RD1002Q609	10K 1/4W(3 5% TA52
		R318	0RD1001Q609	1K 1/4W(3 5% TA52
		R319	0RD1000Q609	100 1/4W(3 5% TA52
		R320	0RD1000Q609	100 1/4W(3 5% TA52
		R321	0RD1002Q609	10K 1/4W(3 5% TA52
		R322	0RD1501Q609	1.50K 1/4W(3 5% TA52
		R323	0RD1102Q609	11K 1/4W(3 5% TA52
		R324	0RD1000Q609	100 1/4W(3 5% TA52
		R325	0RD1002Q609	10K 1/4W(3 5% TA52
		R326	0RD1000Q609	100 1/4W(3 5% TA52
		R327	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R328	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R329	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R330	0RD1001Q609	1K 1/4W(3 5% TA52
		R331	0RD0472Q609	47 1/4W(3 5% TA52
		R332	0RD0472Q609	47 1/4W(3 5% TA52
		R333	0RD0472Q609	47 1/4W(3 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R334	0RD1000Q609	100 1/4W(3 5% TA52
		R335	0RD1000Q609	100 1/4W(3 5% TA52
		R336	0RD1500Q609	150 1/4W(3 5% TA52
		R337	0RD1800Q609	180 1/4W(3 5% TA52
		R338	0RD1200Q609	120 1/4W(3 5% TA52
		R339	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R340	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R341	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R342	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R343	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R344	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R347	0RD1000Q609	100 1/4W(3 5% TA52
		R359	0RD0102Q609	10 1/4W(3 5% TA52
		R401	0RD3300Q609	330 1/4W(3 5% TA52
		R402	0RD1000Q609	100 1/4W(3 5% TA52
		R405	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R406	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R407	0RD1000Q609	100 1/4W(3 5% TA52
		R412	0RD1000Q609	100 1/4W(3 5% TA52
		R413	0RD2202Q609	22K 1/4W(3 5% TA52
		R414	0RD2202Q609	22K 1/4W(3 5% TA52
		R415	0RD2202Q609	22K 1/4W(3 5% TA52
		R416	0RD2202Q609	22K 1/4W(3 5% TA52
		R419	0RN1102F409	11K 1/6W 1% TA52
		R421	0RD2001Q609	2K 1/4W(3 5% TA52
		R422	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R423	0RD1000Q609	100 1/4W(3 5% TA52
		R424	0RN4701F409	4.70K 1/6W 1% TA52
		R425	0RD2001Q609	2K 1/4W(3 5% TA52
		R426	0RD2001Q609	2K 1/4W(3 5% TA52
		R427	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R428	0RD1000Q609	100 1/4W(3 5% TA52
		R429	0RD1000Q609	100 1/4W(3 5% TA52
		R430	0RD1801Q609	1.80K 1/4W(3 5% TA52
		R431	0RD1801Q609	1.80K 1/4W(3 5% TA52
		R432	0RD1301Q609	1.30K 1/4W(3 5% TA52
		R440	0RD1000Q609	100 1/4W(3 5% TA52
		R443	0RD1001Q609	1K 1/4W(3 5% TA52
		R451	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R452	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R453	0RD1500Q609	150 1/4W(3 5% TA52
		R454	0RD6201Q609	6.20K 1/4W(3 5% TA52
		R455	0RN0270G609	0.27 1/4W 5 TA52
		R456	0RD0622A609	62 OHM 1/2 W (7.0) 5% TA52
		R457	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R458	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R459	0RD1500Q609	150 1/4W(3 5% TA52
		R460	0RD8201Q609	8.20K 1/4W(3 5% TA52
		R473	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R493	0RD1000Q609	100 1/4W(3 5% TA52
		R494	0RD1000Q609	100 1/4W(3 5% TA52
		R522	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R601	0RD1001Q609	1K 1/4W(3 5% TA52
		R602	0RD1001Q609	1K 1/4W(3 5% TA52
		R603	0RN0111H509	1.1 OHM 1/2 W 2.00% TA52
		R604	0RD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R605	0RN5601F409	5.60K 1/6W 1% TA52
		R606	0RN6201F409	6.20K 1/6W 1% TA52
		R607	0RD6800A609	680 OHM 1/2 W (7.0) 5% TA52
		R608	0RD1000Q609	100 1/4W(3 5% TA52
		R609	0RD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R610	0RN0390H509	0.39 1/2W 2 TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R701	ORMZTWD001C	47 OHM 7 W 5% RWR PD-TYPE
		R702	ORD1002Q609	10K 1/4W(3 5% TA52
		R703	ORD3301Q609	3.30K 1/4W(3 5% TA52
		R704	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R705	ORB0150K609	0.15 OHM 2 W 5% TA52
		R706	ORD1003Q609	100K 1/4W(3 5% TA52
		R707	ORD5601Q609	5.60K 1/4W(3 5% TA52
		R710	ORD0472Q609	47 1/4W(3 5% TA52
		R711	ORN1502F409	15K 1/6W 1% TA52
		R712	ORD1003Q609	100K 1/4W(3 5% TA52
		R716	ORD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R717	ORD1000Q609	100 1/4W(3 5% TA52
		R718	ORN0181H509	1.8 OHM 1/2 W 2.00% TA52
		R719	ORD0332Q609	33 1/4W(3 5% TA52
		R730	ORD4702Q609	47K 1/4W(3 5% TA52
		R731	ORD1000Q609	100 1/4W(3 5% TA52
		R732	ORD1001Q609	1K 1/4W(3 5% TA52
		R733	ORD1802Q609	18K 1/4W(3 5% TA52
		R734	ORD2001Q609	2K 1/4W(3 5% TA52
		R735	ORD5601Q609	5.60K 1/4W(3 5% TA52
		R736	ORX1001K607	1K OHM 2 W 5.00% TA62
		R737	ORD1004A609	1.0M OHM 1/2 W (7.0) 5% TA52
		R738	ORD3601Q609	3.60K 1/4W(3 5% TA52
		R739	ORD3300Q609	330 1/4W(3 5% TA52
△		R740	ORN1503G409	150K 1/4W 1 TA52
		R743	ORX1303K665	130K OHM 2 W 5% SF
		R744	ORX1303K665	130K OHM 2 W 5% SF
		R745	ORD0751Q609	7.5 OHM 1/4 W (3.4) 5% TA52
		R746	ORX1502J609	15KOHM 1 W 5% TA52
		R747	ORD3001A609	3.0K OHM 1/2 W (7.0) 5% TA52
		R748	ORD3300Q609	330 1/4W(3 5% TA52
		R749	ORD5600Q609	560 1/4W(3 5% TA52
		R750	ORN3602F409	36K 1/6W 1 TA52
		R751	ORD2000Q609	200 1/4W(3 5% TA52
		R764	ORD0472Q609	47 1/4W(3 5% TA52
		R771	ORD1101Q609	1.1K OHM 1/4 W (3.4) 5% TA52
		R773	ORD6202A609	62K OHM 1/2 W (7.0) 5% TA52
		R774	ORD4302Q609	43K 1/4W(3 5% TA52
		R775	ORD3300Q609	330 1/4W(3 5% TA52
		R776	ORD7502Q609	75K 1/4W(3 5% TA52
		R780	ORD1001Q609	1K 1/4W(3 5% TA52
		R801	ORD1502Q609	15K 1/4W(3 5% TA52
		R802	ORN2202F409	22K 1/6W 1% TA52
		R803	ORD3302Q609	33K 1/4W(3 5% TA52
		R805	ORD1002Q609	10K 1/4W(3 5% TA52
		R806	ORD1002Q609	10K 1/4W(3 5% TA52
		R807	ORD1001Q609	1K 1/4W(3 5% TA52
		R808	ORD1001Q609	1K 1/4W(3 5% TA52
		R809	ORN3902F409	39K 1/6W 1% TA52
		R810	ORD1001Q609	1K 1/4W(3 5% TA52
		R811	ORD1001Q609	1K 1/4W(3 5% TA52
		R812	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R813	ORD2401Q609	2.40K 1/4W(3 5% TA52
△		R814	ORN1202F409	12K 1/6W 1% TA52
		R818	ORD2701Q609	2.70K 1/4W(3 5% TA52
△		R822	ORN3601F409	3.6K 1/6W 1 TA52
		R823	ORD2703Q609	270K 1/4W(3 5% TA52
△		R824	ORN4700F409	470 1/6W 1 TA52
△		R825	ORN1002F409	10K 1/6W 1 TA52
△		R826	ORN1102F409	11K 1/6W 1% TA52
		R827	ORN1002F409	10K 1/6W 1 TA52
		R830	ORD1002Q609	10K 1/4W(3 5% TA52

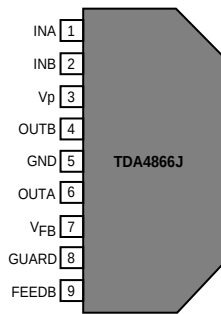
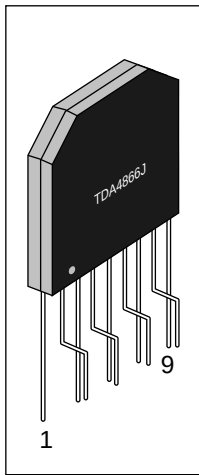
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
△		R831	ORN1002F409	10K 1/6W 1 TA52
		R835	ORD4700Q609	470 OHM 1/4 W (3.4) 5% TA52
		R836	ORD1002A609	10K OHM 1/2 W (7.0) 5% TA52
		R837	ORN1202F409	12K 1/6W 1% TA52
		R838	ORD0101Q609	1 1/4W(3 5% TA52
		R841	ORD5601Q609	5.60K 1/4W(3 5% TA52
		R842	ORMZTWD001A	4.7 OHM 5 W 5% B RWR
		R843	ORX1003J609	100KOHM 1 W 5% TA52
		R846	ORD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R847	ORD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R849	ORX1300J609	130 OHM 1 W 5% TA52
		R851	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R853	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R855	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R857	ORD3001Q609	3K 1/4W(3 5% TA52
		R859	ORD0102Q609	10 1/4W(3 5% TA52
		R860	ORD2000Q609	200 1/4W(3 5% TA52
		R861	180-465Y	RWR 1.2OHM 7W.(V-TYPE)
		R862	ORN0390J607	0.39 1W 5% TA62
		R871	ORX1800K607	180 OHM 2 W 5% TA62
		R872	ORD2401Q609	2.40K 1/4W(3 5% TA52
		R873	ORD0122A609	12 OHM 1/2 W (7.0) 5% TA52
		R874	ORX0332K607	33 OHM 2 W 5% TA62
		R875	ORX0432K607	43 OHM 2 W 5% TA62
		R876	ORN3002F409	30K 1/6W 1% TA52
		R891	ORN2701F409	2.70K 1/6W 1% TA52
		R892	ORN6800F409	680 1/6W 1% TA52
		R893	ORD3301Q609	3.30K 1/4W(3 5% TA52
		R894	ORN2202F409	22K 1/6W 1% TA52
		R895	ORD1000Q609	100 1/4W(3 5% TA52
		R896	ORD1000Q609	100 1/4W(3 5% TA52
		R901	180-465H	0.24 OHM 5W 5% B RWR
		R902	ORD0202Q609	20 1/4W(3 5% TA52
		R903	ORD0362Q609	36 OHM 1/4 W(3.4) 5.00% TA52
		R904	ORD3902Q609	39K 1/4W(3 5% TA52
		R905	ORX4702K665	47K OHM 2 W 5% SF
		R906	ORD4703Q609	470K 1/4W(3 5% TA52
		R907	ORD1000Q609	100 1/4W(3 5% TA52
		R908	ORN0220H609	0.22 1/2W 5% TA52
		R909	ORD1002Q609	10K 1/4W(3 5% TA52
△		R910	ORD1802Q609	18K 1/4W(3 5% TA52
△		R911	ORD6800Q609	680 1/4W(3 5% TA52
		R912	ORD1001Q609	1K 1/4W(3 5% TA52
		R913	ORB0120K607	0.12 OHM 2 W 5% TA62
		R914	ORD1500Q609	150 1/4W(3 5% TA52
		R915	ORD8203Q609	820KOHM 1/4 W (3.4) 5% TA52
		R916	ORD8203Q609	820KOHM 1/4 W (3.4) 5% TA52
		R917	ORD0752Q609	75 1/4W(3 5% TA52
		R918	ORD1003Q609	100K 1/4W(3 5% TA52
		R919	ORD2002Q609	20K 1/4W(3 5% TA52
		R920	ORD0332Q609	33 1/4W(3 5% TA52
		R921	ORD0332Q609	33 1/4W(3 5% TA52
		R922	ORD5101Q609	5.10K 1/4W(3 5% TA52
		R925	ORD1001Q609	1K 1/4W(3 5% TA52
		R926	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R928	ORX0331K607	3.3 OHM 2 W 5% TA62
		R941	ORD2703A609	270K OHM 1/2 W (7.0) 5% TA52
		R942	971-0016	TIN HDC 0.60H
		R949	ORN0220H609	0.22 1/2W 5% TA52
		R950	ORD1002Q609	10K 1/4W(3 5% TA52
		R951	ORD1101A609	1.1K OHM 1/2 W (7.0) 5% TA52
		R952	ORD4701Q609	4.70K 1/4W(3 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R953	0RD1002Q609	10K 1/4W(3 5% TA52
		R954	0RD4700A609	470 OHM 1/2 W (7.0) 5% TA52
		R955-1	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R984	0RX3902J609	39K OHM 1 W 5% TA52
		R990	0RD0512Q609	51 1/4W(3 5% TA52
		R991	0RD5101Q609	5.10K 1/4W(3 5% TA52
		R992	0RD5101Q609	5.10K 1/4W(3 5% TA52
OTHERs				
		F1	430-858C	AFC-520 BAE EUN TA
		F2	430-858C	AFC-520 BAE EUN TA
		F901	0FZZTTH001B	TIME LAG HBC 5A/250V,215
		J113	125-155J	BFS2550A0FG SAMWHA
		J313	0RD0152Q609	15 1/4W(3 5% TA52
		J331	0RD0152Q609	15 1/4W(3 5% TA52
		J332	0RD0152Q609	15 1/4W(3 5% TA52
		RL901	6920TBB006A	DY3M-DC12V DONGYANG 250VAC
		SC301	6620TBD003A	PCS701E PARK ELEC. 10PIN 14/360
		SC901	6200TJB001H	02MD1 DELTA BK W/O GND
		SG301	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG302	165-004A	AG20PT 152F-L3N/S-23 HANDOK
		SG303	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG304	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG305	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG701	165-004A	AG20PT 152F-L3N/S-23 HANDOK
		SW201	140-058D	SKHV10911A LGEC NON 12 20
		SW202	140-058D	SKHV10911A LGEC NON 12 20
		SW203	140-058D	SKHV10911A LGEC NON 12 20
		SW204	140-058D	SKHV10911A LGEC NON 12 20
		SW205	140-058D	SKHV10911A LGEC NON 12 20
△		T701	6174T13010C	"FQM19A008,EB990G SAMSUNG 19""
		T801	6140TDZ009A	- GET EER2834,DUMMY,EB990G
		T802	6170TCZ008A	EE2218 1.3MH FB995C
		T901	6170TMZ130A	EER4445S 135UH V-18PIN EB990G
		TH901	6322TB070AA	J503P63D070M290S JA HWA +/- 20%
		TH902	6322TA080AB	TP8D15 DAEWOO +/- 15% 110/220V
		VR801	180-035Q	EVN-DJAA03B24 (MEC),20KB
		VR901	180-035C	EVN-DJAA03B22 (MEC),200B
		X401	6202TTB003B	HC-49/U HARMONY RADIAL 12MHZ

PIN CONFIGURATION

TDA4866J

Current Driven Vertical Deflection Booster



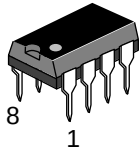
Pin Configuration

PIN	SYMBOL
1	INA
2	INB
3	V _P
4	OUTB
5	GND
6	OUTA
7	V _{FB}
8	GUARD
9	FEEDB

M24C08

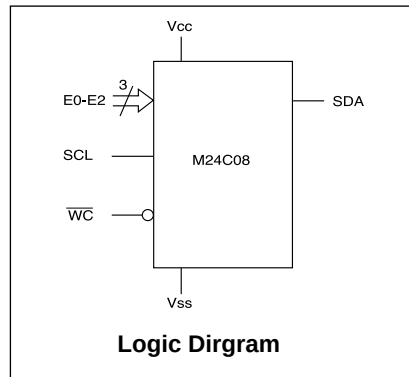
Serial I²C BUS EEPROM

PSDIP8 (BN)
0.25mm Frame



SO8 (MN)
150mil Width

TSSOP8 (DW)
169mil Width

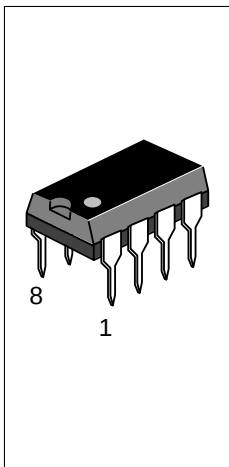


Logic Diagram

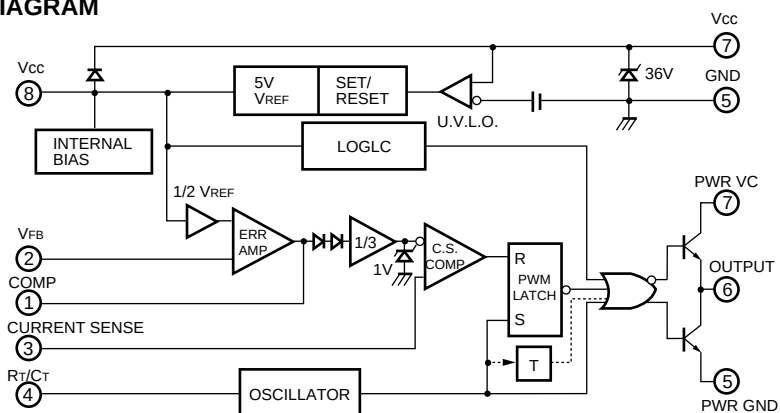
SYMBOL	DESCRIPTION
E0-E2	Chip Enable Input
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
Vcc	Supply Voltage
Vss	Ground

KA3843B

Current-Mode PWM Controller



BLOCK DIAGRAM



Gateway Model Name : VX930
LGE Model Name : EG994G

