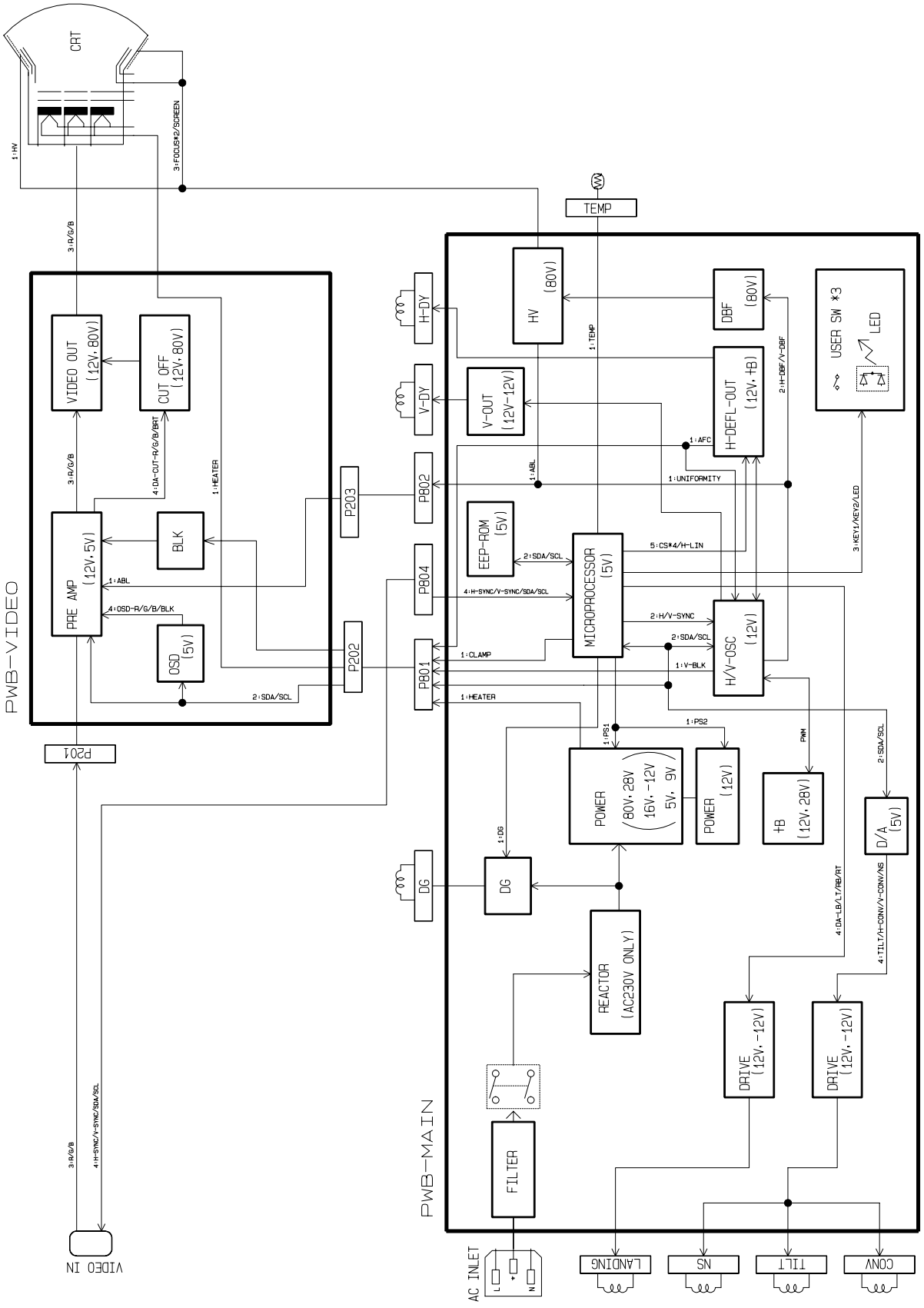
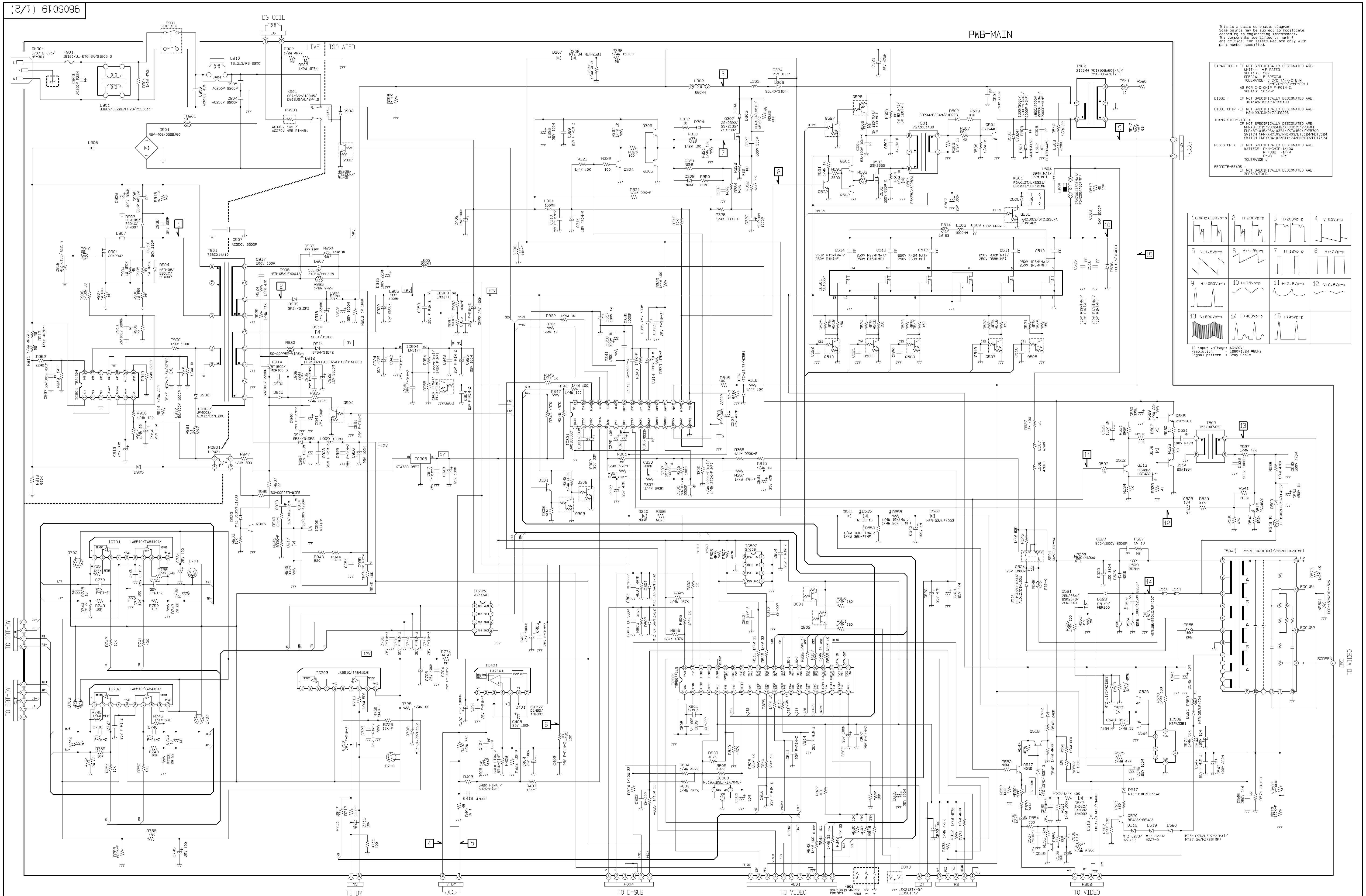
MA901U/MF901U BLOCK DIAGRAMS





PWB-MAIN
DG COIL
LIVE
ISOLATED
This is a basic schematic diagram.
Some points may be subject to modificate
according to engineering improvement.
The components identified by mark #
are critical for safety.Replace only with
part number specified.
CAPACITOR : IF NOT SPECIFICALLY DESIGNATED ARE.
UNIT::: μF RATED
VOLTAGE: 50V
SPECIAL: B SPECIAL
TOLERANCE: C-C/C-TA:K,C-E:M
C-MF/C-PP/C-MF-PP:J
AS FOR C-C-CHIP F-R01M-Z.
VOLTAGE 50/25V
DIODE : IF NOT SPECIFICALLY DESIGNATED ARE.
1N4148/1SS120/1SS133
DIODE-CHIP :IF NOT SPECIFICALLY DESIGNATED ARE.
HSM123/DAN217/1PS226
TRANSISTOR-CHIP :
IF NOT SPECIFICALLY DESIGNATED ARE.
NPN:BT1815/2SC2412/KTC3875/2PD601
PNP:BT1015/2SA1037AK/KTA1504/2PB709
SWITCH NPN:KRC103/RN1403/DTC124/PDTC124
SWITCH PNP:KRA103/DTA124/RN2403/PDTA124
RESISTOR : IF NOT SPECIFICALLY DESIGNATED ARE.
WATTEGE; R-M-CHIP:1/10W
R-FUSE :1/4W
R-MB :2W
TOLERANCE:J
FERRITE-BEADS :
IF NOT SPECIFICALLY DESIGNATED ARE.
ZBF503/EXCEL
TO CRT-DY
TO DY
TO D-SUB
TO VIDEO

980S019 (1/2)

CHANGE

GROUP NO.	APPLICABLE MODEL NO.
50	
40	
30	
20	
10	

IIYAMA ELECTRIC CO., LTD

DATE '00 - 10 - 6 | PARTS-LIST REV. リ

DRAWN	DESIGNED	CHECKED	APPROVED
T. IKEDA	H. TODOROKI		

DRAWING TITLE

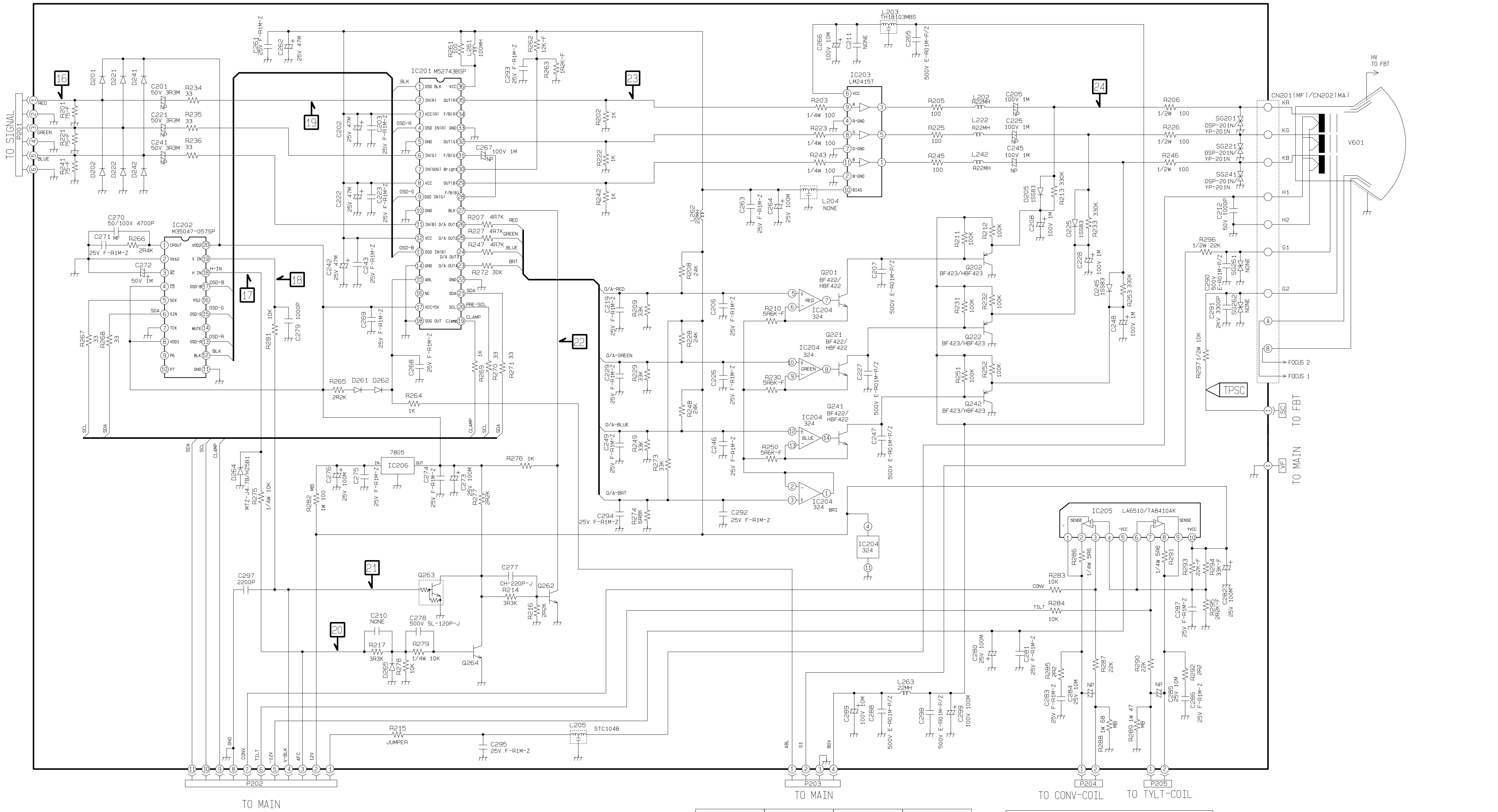
CIRCUIT DIAGRAM

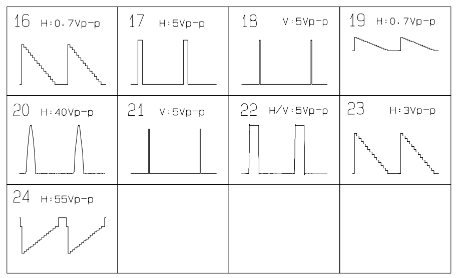
DRAWING NO.

980S019 1/2

980S019 (2/2)

PWB-VIDEO





CAPACITOR : IF NOT SPECIFICALLY DESIGNATED ARE.
UNIT::: μF RATED
VOLTAGE: 50V
SPECIAL: B SPECIAL
TOLERANCE: C-C/C-TA:K, C-E:M
C-MF/C-PP/C-MF-PP:J
AS FOR C-C-CHIP F-R01-Z.
VOLTAGE: 50/25V

DIODE : IF NOT SPECIFICALLY DESIGNATED ARE.
1N4148/1SS133/1SS120

TRANSISTOR : IF NOT SPECIFICALLY DESIGNATED ARE.
NPN:BT1815/2SC2412/KTC3875/2PD601
PNP:BT1015/2SA1037/KTA1504/2PB709
SWITCH NPN:KRC103/DTC124/RN1403/PDTC124
SWITCH PNP:KRA103/DTA124/RN2403/PDTA124

RESISTOR : IF NOT SPECIFICALLY DESIGNATED ARE.
WATTEGE:R-M-CHIP:1/10W
TOLERANCE:J

This is a basic schematic diagram.
Some points may be subject to modificate according to engineering improvement.
The components identified by mark # are critical for safety. Replace only with part number specified.

CHANGE						
50		IIYAMA ELECTRIC CO., LTD				DRAWING TITLE: CIRCUIT DIAGRAM
40		DATE '00 - 10 - 6		PARTS-LIST REV. ホ		
30		DRAWN	DESIGNED	CHECKED	APPROVED	DRAWING NO.
20						
10		T. IKEDA	H. TODOROKI			980S019 2/2
GROUP NO.	APPLICABLE MODEL NO.					

ADJUSTMENT MODE

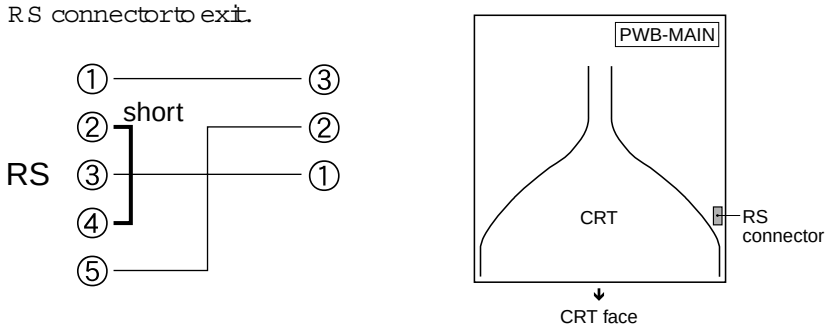
There are two different modes available to adjust the monitor as described below. The adjustment with ' ' in front of the title are only available under User Mode. The adjustments with ' ' in front of the title are only available under Factory Mode. You can perform the other adjustments by either User or Factory Mode. Please change the mode as required.

USER MODE:

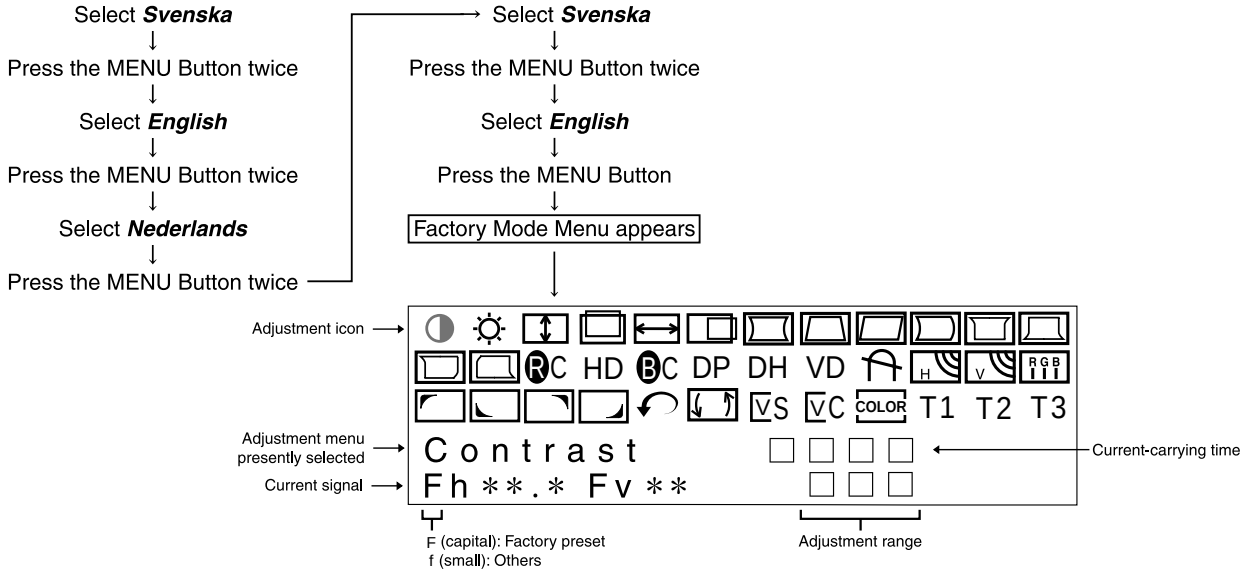
Turn ON the Power Switch and you are in the User Mode.

FACTORY MODE: There are two ways to enter the Factory Mode.

1. Turn OFF the Power Switch. Short between pins 2 and 4 of RS connector on the PWB-MAIN with a short-connector. Turn ON the Power Switch and you are in the Factory Mode. The following Factory Mode Menu appears on the screen when you press the MENU Button. Turn OFF the Power Switch and remove the short-connector from RS connector to exit.



2. In the adjustment menu, select "Function" on the Main Menu and then select "Language" on the Sub-Menu. Follow the flow chart below and you are in the Factory Mode. Turn OFF the Power Switch to exit.



The menu items in the Factory Mode are as follows:

Contrast	Pincushion	Pinbalance Top	DBF Phase	Top-left	V linear side
Brightness	Trapezoid	Pinbalance Btm	V DBF	Bottom-left	V linear corner
V-size	Parallelogram	Cutoff red	Degauss	Top-right	Temp cont
V-position	Pinbalance	Cutoff green	H moire	Bottom-right	DA TEST 1
H-size	Side pin Top	Cutoff blue	V moire	NS	DA TEST 2
H-position	Side pin Bottom	DBF Para	H convergence	Tilt-DY	DA TEST 3 *

* DA TEST 3 helps you to perform H/V-BLANKING and H-CONVERGENCE /TILT-DY confirmations in this SET-UP ADJUSTMENTS. The following items are displayed automatically in turn.

1. H-convergence 2. Tilt-dy 3. H/V-blanking

EXTERNAL DEGAUSS

Make sure you disable the Bottom-right, Top-right, Top-left, Bottom-left, and rrc settings before performing the external degauss. Follow the procedure below depending on the adjustment mode you are in.

PROCEDURE

USER MODE

1) Select Degauss and press the MENU Button so that the Bottom-right, Top-right, Top-left, Bottom-left, and rrc will be disabled.
2) Degauss the entire screen with degausser while the Degauss is activated (approx. 6 seconds).

FACTORY MODE

1) Select Degauss and press the MENU Button so that the Top-left, Bottom-left, Top-right, Bottom-right, and NS will be disabled.
2) Confirm that the OSD stays displayed on the screen.

   Note: If the OSD disappears, restart from 1).
3) Degauss the entire screen with degausser.