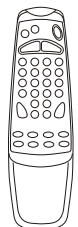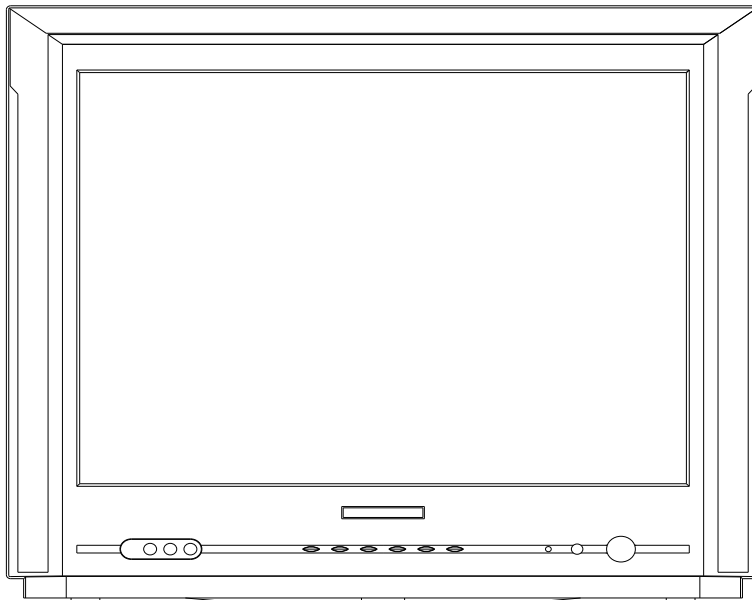# SERVICE MANUAL

3Y11 CHASSIS

Design and specifications are subject to change without prior notice.
(ONLY REFERRENCE)

ENGINEER BY: _____   CHECKED BY: _____   PPROVED BY: _____

Service Adjustments

MAIN CHASSIS ADJUSTMENT

B+ Adjustment (VR601)

(1) Disconnect horizontal load.Connect a light bulb(100W) AC250V across C321).
(2) Connect 220V AC 50/60Hz to CN601 and switch on power switch.
(3) Test the voltage with digital meter between C321 two terminals.
(4) Adjust VR601 to obtain +110V+/-0.5V.

FACTORY MODE ADJUSTMENT

(1) Press MENU key twin, till the PICTURE MENU appears, then press Q.VIEW key. MUTE key to turn on
     CPU. TV SET will go to factory mode. Press TIMER key TO go to the next Factory menu. Go to MENU3
     status by this means.
(2) Press MENU key to exit factory mode.

AGC Adjustment

(1) Receive 60dB +/-2dB therefore signal. Connect Digital voltmeter positive terminal to AGC terminal of
     Tuner and negative terminal to GND.
(2) Go to MENU3 status accorging to FACTORY MODE ADJUSTMENT.
(2)   Select RF.AGC by pressing CH+ or PROG+ keys. Adjust VOL+ and VOL- keys to obtain 4V Digital vol-
      Tage meter reading.
(3) Press MENU key to exit factory mode.

COMPLETE SET GENERAL ADJUSTMENT

FOCUS Adjustment

(1) Receive monoscope pattern.
(2) Set TV to work in dynamic status.
(3) Adjust the focus knob of FBT to get the clearest picture.

Screen Voltag Adjustment

(1) Go to factory mode MENU2 status according to AGC adjustment (2).
(2) Select V-KILL by prssing CH+ or PROG+ and CH- or PROG- KEYS.
(3) Press VOL+ key all the time, adjust the screen of FBT to get a horizontal faintness beam line. Then
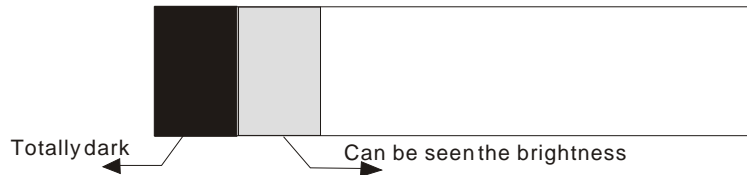   Loose VOL+

White Balance Adjustment(Applied when servicing)

(1) Set the TV set to AV mode. Receive black white pattern(color temperature test pattern).
(2) Put the test probe 1 of CRT color analyzer (CA-100) on the low bright area and the test probe 2 on the high
     bright area. Adjust bright and contrast to get 5nit of low bright area and 80nit of high bright area.
(3) Go to factory mode MENU2 according to AGC adjustment (2). Obtain low bright area to   X=281 and Y=311
     by adjusting R.bias and B.bias. Obtain both area to X=? and Y=? by adjusting the two status repeatedly.
 Note: the values of X & Y may be changed by the favour 0f customers.

Service Adjustments

Sub-bright Adjustment

(1) Receive GREY SCALE signal.
(2) Set TV normal mode.
(3) Go to factory mode ,adjust sub-bright option to make the picture same as below.

Totally dark   Can be seen the brightness

Vertical size and pincushion adjustment

(1) Receive monoscope pattern. Set TV standard status. Adjust V.size to obtain picture vertical redisplay ratio more than 90% in factory mode MENU1.
(2) Receive cross hatch pattern. Set TV standard status. Adjust V.LINE and V.SC to obtain picture vertical pin cushion a good status in factory mode MENU1.
(3) Receive cross hatch pattern. Set Tv standard status. In factory mode MENU1 adjust V.POSITION to obtain picture vertical center of CRT screen.

Horizontal Center adjustment

Receive PHILIPS pattern. Set TV standard status. Adjust H.PHASE to obtain horizontal center at the center of of CRT screen.

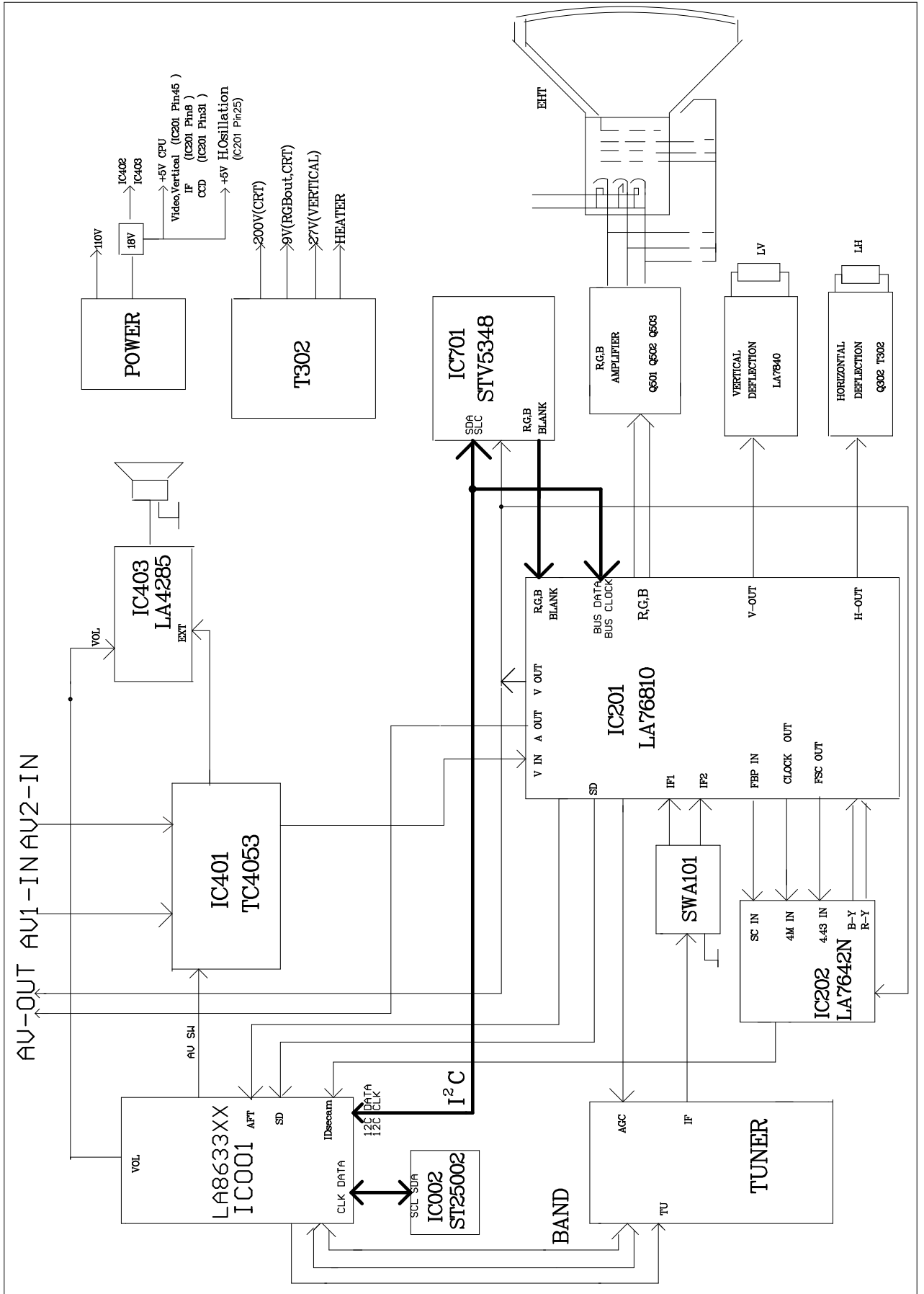## Secam color decoder alignment

Receive the GREY SCALE/COLOR BAR signal. Enter into the factory mode. Adjust the valuse of secam R-Y DC and Secam B-Y DC to make the gray scale to the normal color.
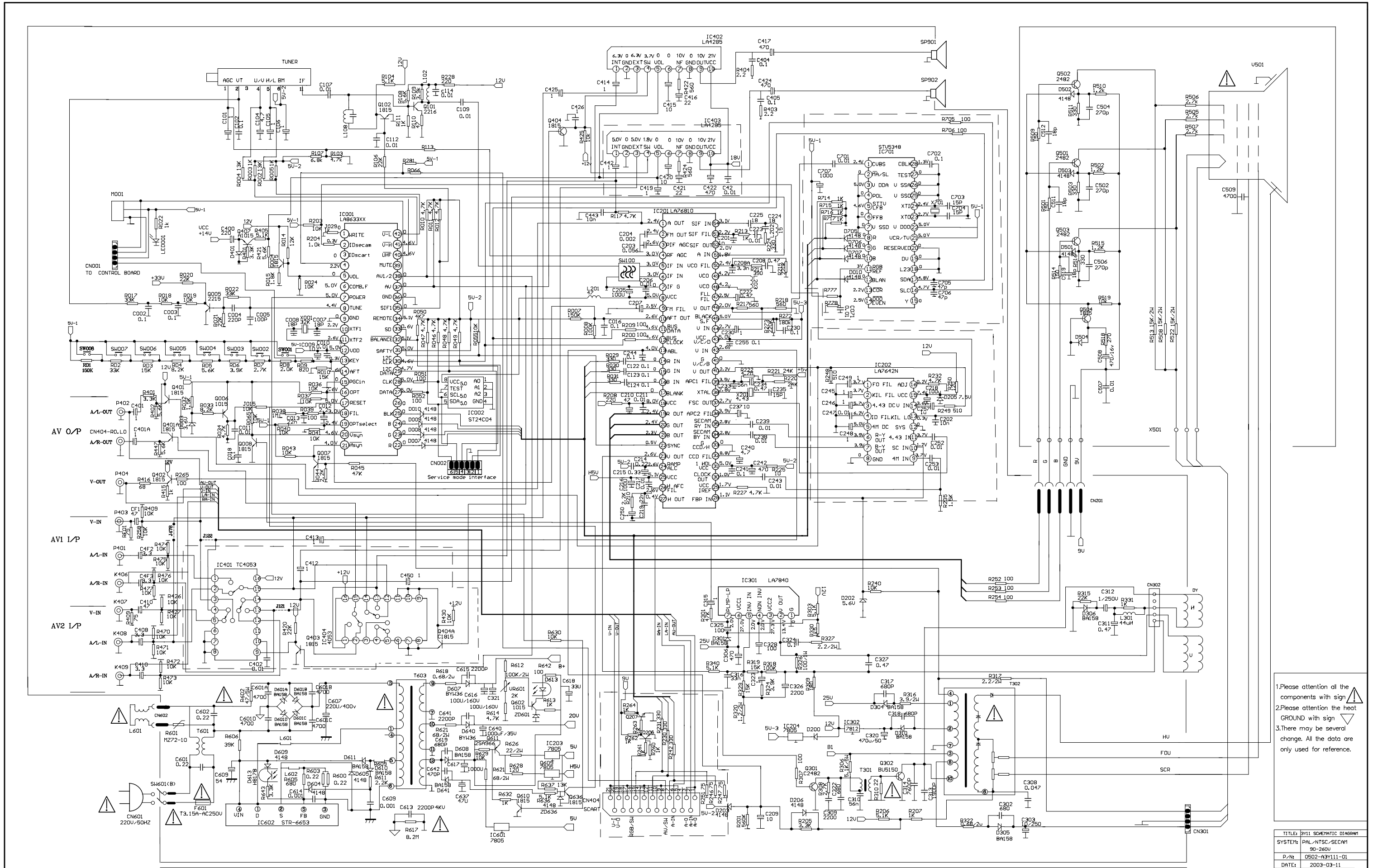
Pure flat tube alignment

Horizontal size and pincushion distortion must be adjusted in pure flat tube as following:
1. Receive mono scope pattern;Adjust VR902 untill redisplay ratio is correct.
2.Receive cross hatch pattern signal;Adjust Vr901 untill the erect klines of the CRT two sides are most straight.

Chassis Block Diagram

BY11 SCHEMATIC DIAGRAM

SYSTEM: PAL/NTSC/SECAM
90-260V

P/N: 0502-A3Y111-01

DATE: 2003-03-11

1. Please attention all the components with sign
2. Please attention the heat GROUND with sign
3. There may be several change. All the data are only used for reference.