

50R1 PANEL

QUICK REFERENCE

ALIGNMENT HAND BOOK

MODELS USING THE 50R1 PANEL

50PK950

50PK750

50PK560

50PK550

50PK540

50PK250



LG

Life's Good

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(50R1 PANEL) The Following Models use the 50R1 Panel (2010)

50R1 SMPS BOARD ADJUSTMENT POINTS

Set should be in “White Wash”

These two voltages are adjustable and should be adjusted to the correct values as indicated by your Panel's Voltage Label. Example shown on the right.

Example: Use Your Panel's Label

Model : PDP 50R1###
Voltage Setting: 5V/ Va:60/ Vs:203
N.A. / -190 / 150 / N.A. / 115
Max Watt : 450 W (Full White)

VA
VR501

VS
VR901

Always adjust “Highest to Lowest” voltages.

VS and VA adjustment resistors are shown in the drawing below.

They are located at the top Right of the board.

1) VS ADJUST:

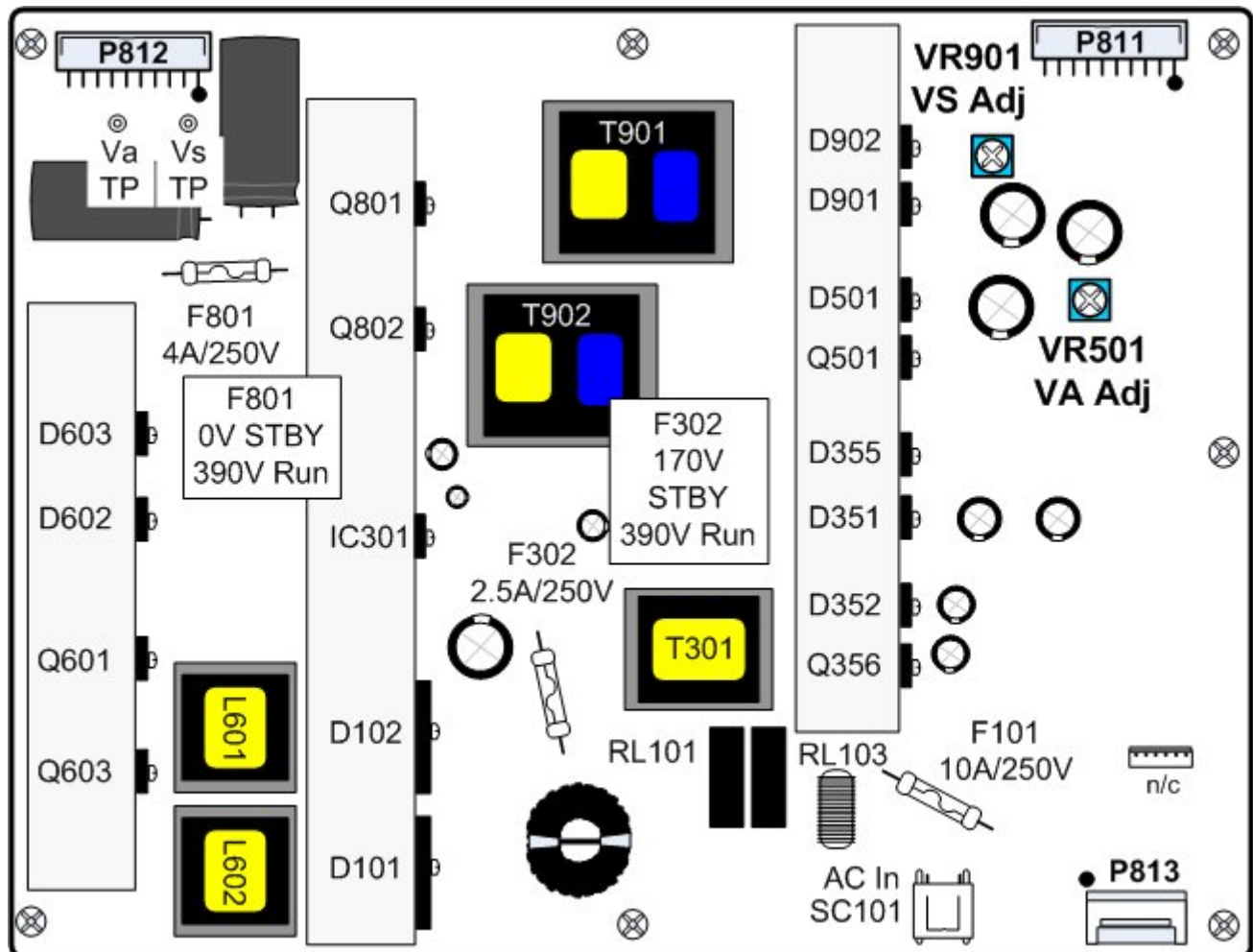
Connect DVM to VS Test Point or pins 1 or 2 of P811 or P812.

Adjust VR901 until the voltage matches your panel's voltage label.

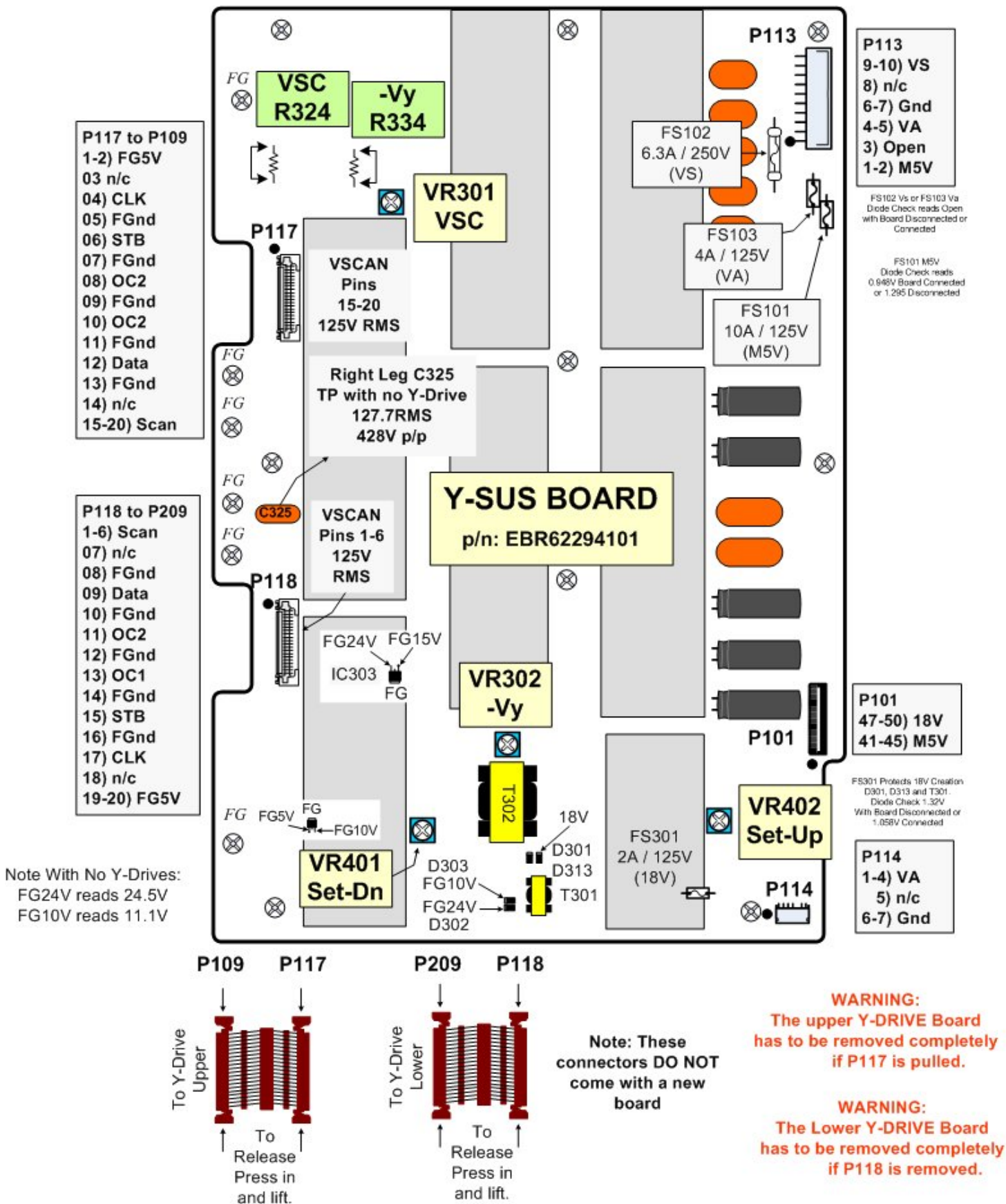
2) VA ADJUST:

Connect DVM to VA Test Point or pins 6 or 7 of P811 or P812.

Adjust VR501 until the voltage matches your panel's voltage label.



50R1 Y-SUS BOARD ADJUSTMENT POINTS



50R1 VSC, -Vy ADJUSTMENTS

PREPARATION:

- 1) Pre-Heat unit for at least 10 Minutes before making adjustments.
Vs and Va adjustments complete.
- 2) Place unit into White Wash from the Customer's Menu for all adjustments.
- 3) **Be sure to use all adjustment values as indicated on your panel's voltage label in the upper left of the panel.**

Example: Use Your Panel's Label

Model : PDP 50R1###
 Voltage Setting: 5V/ Va:60/ Vs:203
 N.A. / -190 / 150 / N.A. / 115
 Max Watt : 450 W (Full White)

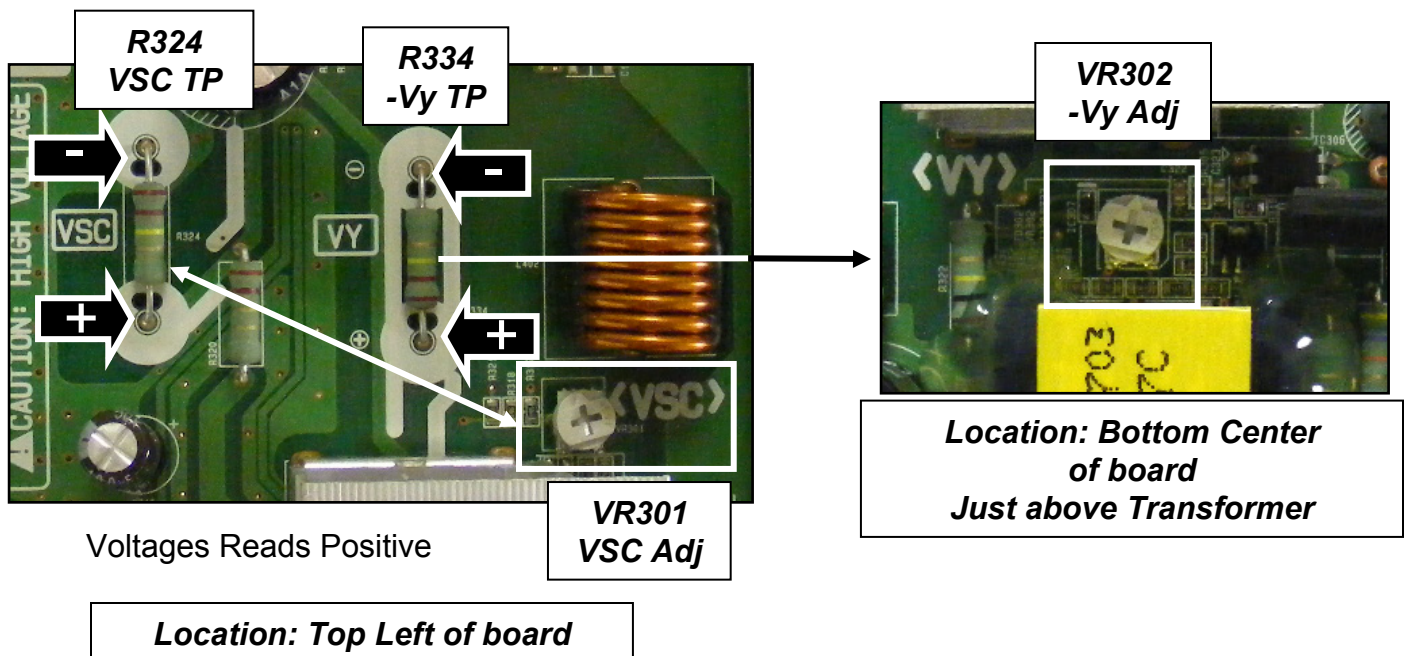
-Vy

VSC

PROCEDURE: (See figure below for locations)

- 1) Adjust -Vy VR302. Measured across -Vy TP R334.
Match your specific Panel's Voltage label $\pm 1V$.
- 2) Adjust VSC VR301. Measured across VSC TPs R324.
Match your specific Panel's Voltage label $\pm 1V$.

Voltage Reads Positive



50R1 Y Drive Waveform Test Point

The figure below shows a close-up image of the Y-Drive waveform test point on the Y-Drive Upper board. (Waveform TP).

There is another on the Lower Y-Drive board.

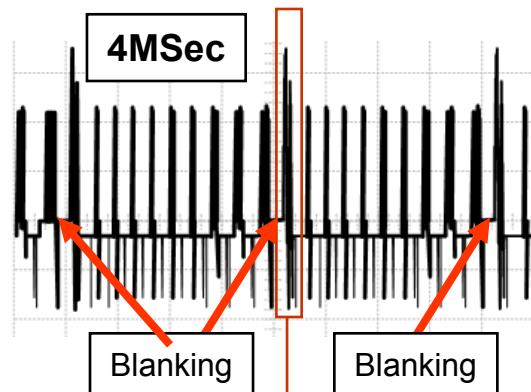
Set-Up and Set-Down portions of the waveform are adjusted using either of these Test Points.

TP LOCATION UNDER 4th HEAT SINK OF UPPER Y-DRIVE
(See next page for adjustment Details)

Waveform TP

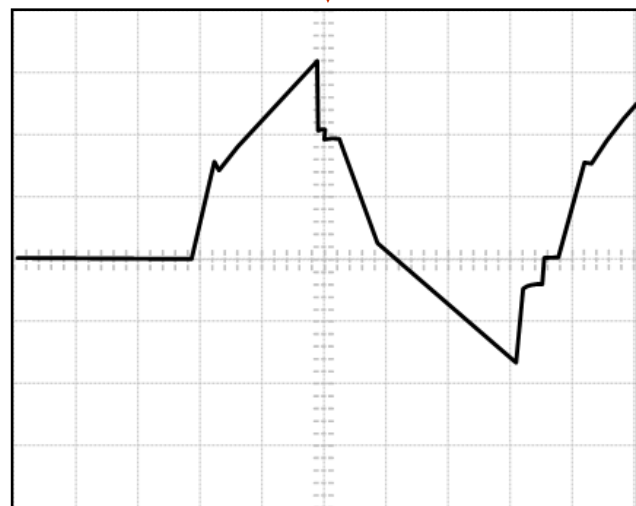


Upper or Lower Y-Drive Board



67~81 VRms

502V p/p



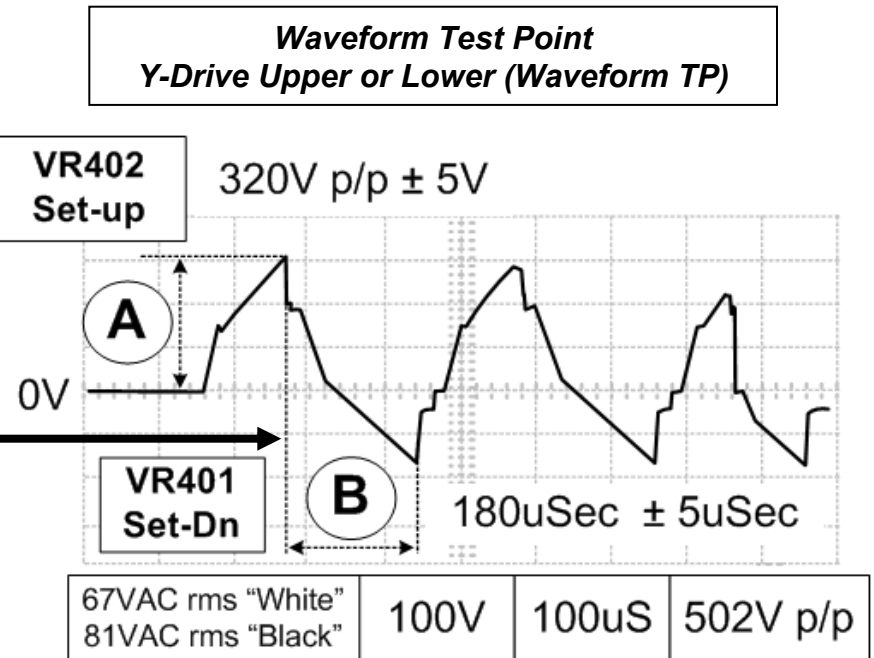
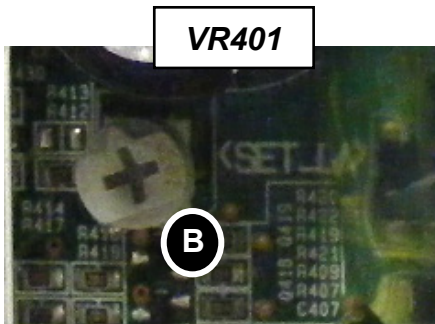
40uSec

50R1 PANEL

- 1) Pre-Heat unit for at least 10 Minutes before making adjustments.
Vs, Va, -Vy and VSC adjustments should be completed.
- 2) Place unit into **White Wash** from the Customer's Menu for all adjustments.

ADJUSTMENT LOCATIONS

(See 3 pages back for Waveform TP locations)

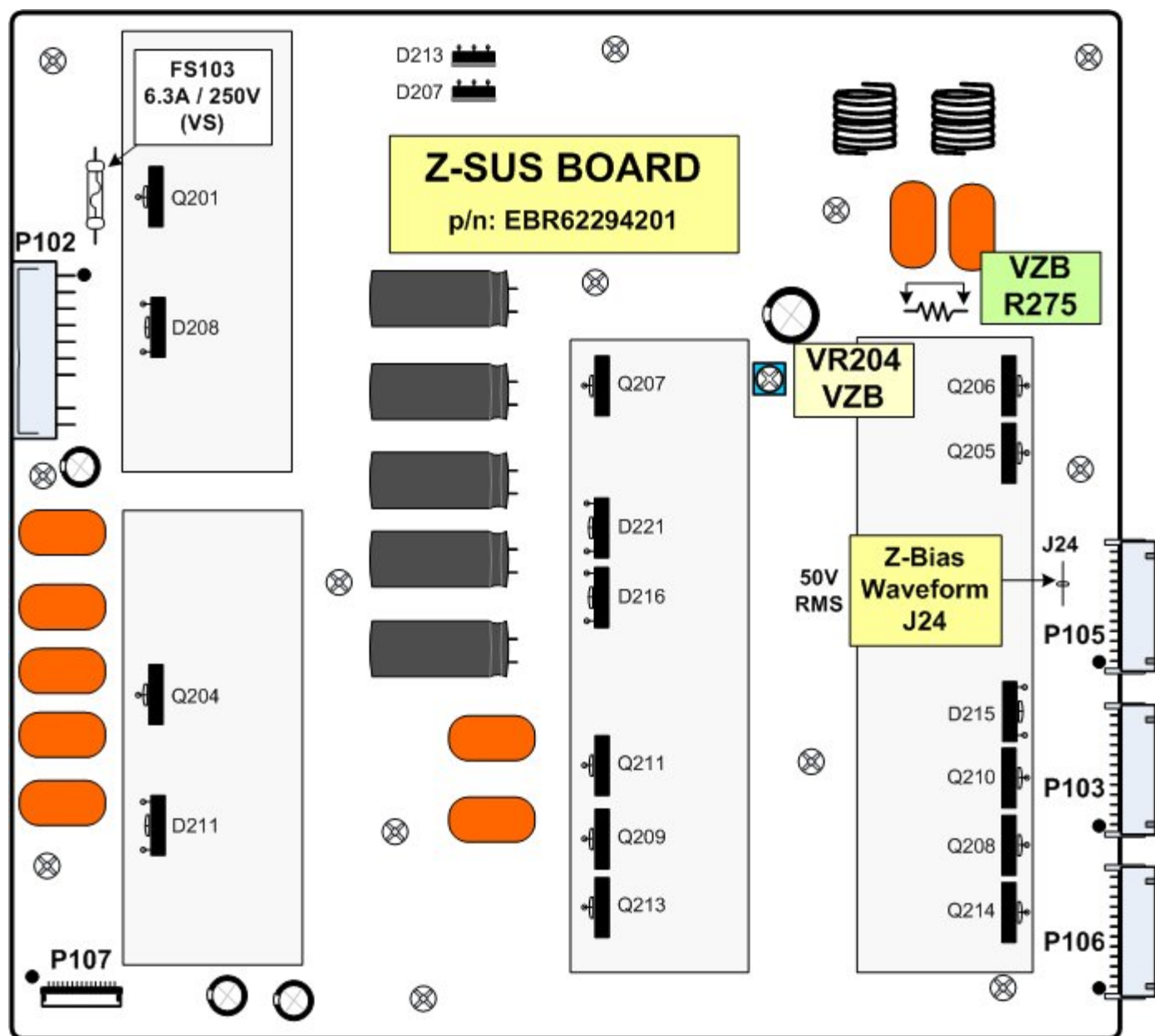


SET-UP ADJUST:

- 1) Adjust VR402 and set the (A) portion of the signal to match the waveform above. (320V p/p $\pm$ 5V)**

2) Adjust VR401 and set the (B) time of the signal to match the waveform above. (180uSec $\pm$ 5uSec)

50R1 Z-SUS ADJUSTMENT POINTS



P102

1-2) VS	(202V)
03) n/c	(n/c)
4-5) Gnd	(Gnd)
6-7) n/c	(n/c)
08) Gnd	(Gnd)
09-10) n/c	(n/c)

P107

1-2) 18V	(18V)
03) n/c	(n/c)
4-5) M5V	(M5V)
6-7) Gnd	(Gnd)
08) SUS_DN	(0.48V)
09) CTRL_EN	(0.48V)
10) SUS_UP	(0.22V)
11) VZB2	(0V)
12) ER_DN	(0.135V)
13) VZB1	(2.34V)
14) ER_UP	(0.239V)
15) ZBIAS	(2.14V)

50R1 Z-SUS (Z-Bias) ADJUSTMENT:

Example: Use Your Panel's Label

PREPARATION:

- 1) Pre-Heat unit for at least 10 Minutes before making adjustments.
- 2) Place unit into White Wash from the Customer's Menu for all adjustments.
- 3) Be sure to use all adjustment values as indicated on the panel voltage label in the upper right hand corner of the panel.

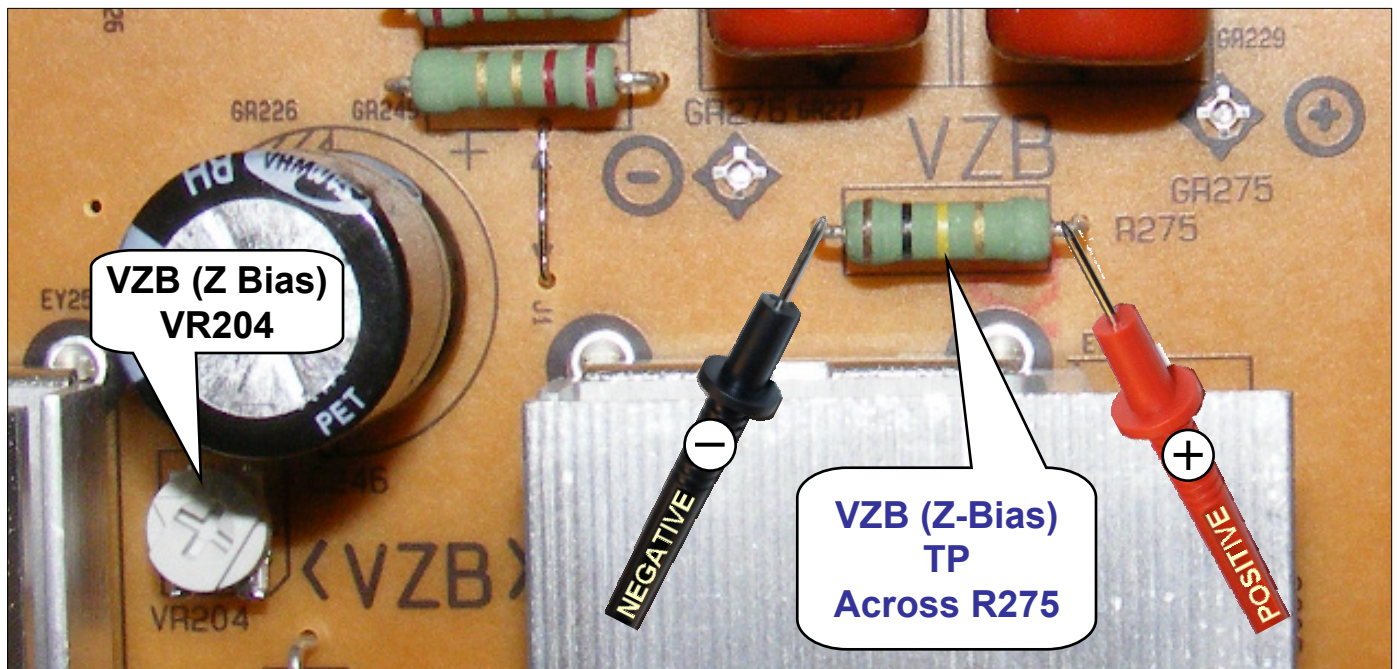
Model : PDP 50R1###
Voltage Setting: 5V/ V_a:60/ V_s:203
N.A. / -190 / 150 / N.A. / 115
Max Watt : 450 W (Full White)

VZB (Z Bias)

PROCEDURE: (See preceding page for locations)

1. Place DC Volt meter on VZB TP (Across R275).
2. Adjust VZB (Z Bias) VR204 in accordance with your Panel's voltage label.

Top Right of Z-SUS Board



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