

# Parasound HCA-1500A Power Amplifier

## Audio Upgrade Modification

### **Main Board:**

Remove C002~C005, C007~C010, C012~C015, C017~C020, C101~C104 (C201~C204).  
C002, C010, C013, C020 = .1uF/250V WIMA MKP10 polypropylene film (REL RELCap RT *optional*)  
C021 = 1000uF/35V Panasonic FC electrolytic  
C022 = 10uF/50V Panasonic FC electrolytic  
C023 = 220uF/25V Panasonic SU BP  
C024 = 47uF/25V Panasonic FC electrolytic  
C101 (C201), C102 (C202) = .1uF/160V Roederstein MKP1839 polypropylene  
C109 (C209), C110 (C210), C113 (C213), C114 (C214) = 47uF/100V Nichicon Muse KZ electrolytic  
C111 (C211), C112 (C212) = 47uF/100V Panasonic FC electrolytic  
C117 (C217) = 10uF/50V Panasonic SU BP  
C118 (C218), C119 (C219) = 100uF/25V Panasonic FC electrolytic

R101 (R201) = 1k, ¼W, 1% PRP PR9372 metal film  
R112 (R212) = 47k (46.4k), ½W, 1% Holco H4 metal film (feedback)

Replace bridge rectifiers D001, D002 (MB252) with Diotec FDB3506P/T-S soft recovery type.

Install .1uF/850V Roederstein MKP1839HQ across AC side of D001, D002 bridge rectifiers (*optional*).  
Install .1uF/275V Evox Rifa PHE840 Class X2 EMI suppression capacitor across AC power input IEC socket (*optional*).

### **Connectors:**

J001A, J003A = Thermistors  
J002A = Red/Black/Black/Orange  
J004A = Red/Blue/Black  
J007A = Red/Orange  
W049, W096 = Black

### **Alignment:**

TVR101 (bias) = 15mV DC across one of the .33Ω emitter resistors R127~R129A *with top cover on*.