

ADCOM GFA-555 Power Amplifier

Original Version

Audio Upgrade Modification

Driver Board:

C603, (C604) = 39pF/500V CDE CD15ED390GO3F mica

C609, (C610) = 47uF/100V Elna ROA Cerafine electrolytic (feedback)

C607, (C608) = 4.7uF/50V Elna ROA Cerafine electrolytic or WIMA MKS2B044701K00JC00 polyester film (HF bypass)

C613, (C614) = 1.0uF/100V Kemet MMK15105K100B04 polyester film or Panasonic ECW-FD2W105K polypropylene film

R601, (C602) = 1k, ¼W, 1% PRP PR9372 metal film

R623, (R624) = 22.1k, ½W, 1% Holco H4 metal film (feedback)

Install bypassing with (4) 47uF/100V Nichicon Muse KZ electrolytic and (4) .1uF/100V WIMA MKP4D031002D00KSSD polypropylene from V+/V- to board ground.

Wiring: **V+** = red; **D+** = yellow; **B+** = orange (or blue); **V-** = brown; **D-** = violet; **B-** = green
Red = L & R feedback); orange = distortion LEDs; black = ground

Output Stage:

Install bypassing with (4) 47uF/100V Panasonic FC from V+/V- to ground bus.

Power Supply:

C001~C004 = 18,000uF/100V United Chemi-Con 36DA183F100CC2A (65X108mm).

C06, C07, C08, C09 = .1uF/100V WIMA MKP4D031002D00KSSD polypropylene film (add if not present on early models).

D002, D003 = Diotec FDB3506P/T-S soft recovery bridge rectifier. Use #8 internal lock washers (1380-D).

R001~R004 = 3.9k, 2W, 5% Yageo metal oxide

Install .1uF/850V Roederstein MKP1839HQ across AC side of each bridge rectifier using multi-stack or piggyback crimp connector (*optional*).

Install .1uF/275V Evox Rifa PHE840 Class X2 EMI suppression capacitor across AC power input (*optional*).

Reverse R671 for power on LED indicator to top side of pc board.

IEC Socket: Qualtek 701W-X2/02

Alignment:

P1 or R1 (bias) = ~16mV DC across any .47Ω emitter resistor *with top cover on*.

VR601 & VR602 (bias) = ~10mV DC across TP or any .47Ω emitter resistor *with top cover on*.