

Apr 29, 2012

TEMPO 2020 / UNIDEN 2020
POWER SUPPLY CAPACITOR REPLACEMENT NOTES

PART LIST:

Caps shown below can be ordered from www.digikey.com. The total cost, excluding delivery, is around \$40. The parts meet or exceed Uniden's ratings and match^{*)} physical dimensions or other characteristics of the original components being replaced.

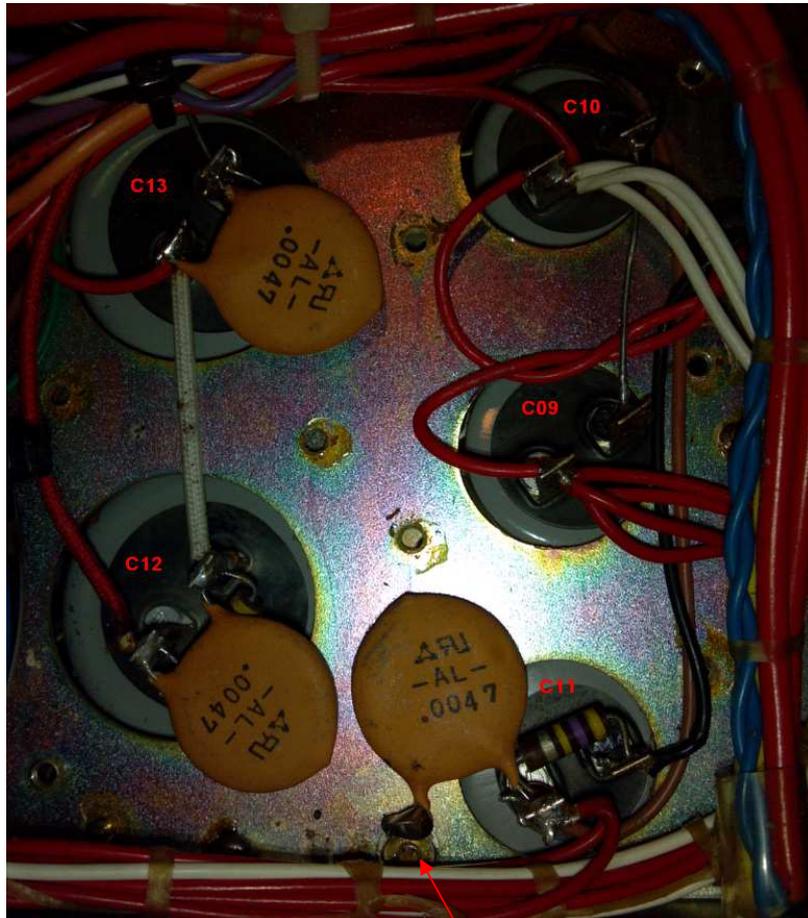
schematic ref.	uF	V	Digi-Key P/N
C601, C603	33	200	4179PHBK-ND
C602	1	160	493-1157-ND <i>axial, not available as radial</i>
C12, C13	220	500	493-4357-ND
C11	220	400	P6850-ND
C09, C10	3300	80	P7509-ND

Also, replace bleeder resistors:

R17, R18, R24	470k	0.5W	CF12JT470KCT-ND
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*) except C602, all components from the list above fit the original locations.

STEP 1: CHASSIS MOUNTED CAPS REPLACEMENT



- disconnect AC power, remove cabinet
- remove nut from screw holding C11 bracket
- desolder ceramic disk cap from C11 positive terminal
- desolder completely ceramic disk caps from C12 and C13
- desolder all wires connecting to C09, C10, C11, C12, C13
- remove screws holding inverter heatsink
- now the tricky part... the heatsink **will always** be in your way
 - move / rotate it as needed to clear access to cap brackets
 - pay attention not to break wires
- remove cap brackets, use proper tool to avoid damaging screw heads
 - magnetic tip screwdriver is recommended (especially to re-assemble)
- wire-wrap new bleeder resistors on new C11, C12 and C13 terminals
- transfer brackets from old caps to new ones
- mount new caps on chassis
- mount nut to hold GND lug near C11
- solder all wires, reuse ceramic disk caps
- mount heatsink back in place

STEP 2: RECTIFIER BOARD MOD



- remove rectifier board from socket
- desolder C601, C602 and C603
- **drill** small hole for C602 GND
- install C601 and C603
- install C602 in new location
- clean board and contacts
- reinsert board in socket