

4-in-1 Multi-Cap Can Replacement Kit (38 mm)

For Can Negative, Chassis Grounded Applications

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Thank you for your order! This kit is designed to replace old multi-section can capacitors of approximately 35 mm diameter with 46 mm mounting hole spacing center-to-center (CTC). This version is designed for applications where the negatives of each capacitor were common and tied to chassis ground. It can be floated with nylon hardware if needed, but be sure to provide adequate clearance if it will be floating at a high voltage with respect to chassis. A positive common or mixed configuration can also be used, but be wary that voltages may exist between the cans of the new caps. The plastic sleeves of the caps should not be relied upon as insulators.

The mounting board can fit up to four different capacitors (try to use 12.5 mm diameter max, 5 mm lead spacing caps if possible). The negatives of each capacitor are connected to an outer copper pour which ties to both plated mounting holes, providing a simple connection to chassis ground. Four extra plated through-holes connected to the ground pour are also provided. The included spacer board sits between the new caps and the mounting board to provide a stable base for them to sit.

Based on IPC-2221B guidelines and the minimum clearances on the mounting board, this kit is not to be operated above 450 V assuming a typical negative-common configuration. Please make sure there is at least 2.5 mm of clearance (more is preferable) between the chassis and any pads or turrets carrying a high voltage.

Installation:

- Test fit your new caps on the board and ensure they will work for your application.
- Place the turrets on the “Turret Side” with the shorter ends going through the four center holes.
- Partially crimp or stake each turret so that it makes a solid mechanical connection to the PCB, but **leave enough of an opening to fit the capacitor leads through**. The positive cap lead should be long enough to go all the way through the turret and should make direct metal-to-metal connect with it.
(a gentle squeeze with snub nose pliers held flush against the board does the job well)
- Solder the turrets in place.
- Install the board in your unit and complete the necessary wiring. Using tooth lock washers will help ensure a solid electrical connection to the plated mounting holes.
- Stack a spacer board on the “Cap Side” and insert your new capacitors with the positive leads going through the center of each turret.
(the spacer boards are optional, but recommended to give the caps a stable base to sit on)
- Solder the caps in place. I recommend cleaning off the residual solder flux with isopropyl alcohol afterwards.

Note: The orientation of the capacitor symbols (*square/triangle/half circle/dash*) varies between units and caps, so the board silkscreen may not match your original installation exactly.

