

3-in-1 Multi-Cap Can Replacement Kit (29mm)

For Can Negative or Positive, 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 26mm diameter with 37.8mm mounting hole spacing center-to-center (CTC). This version is designed for applications where either the negatives or positives of the capacitors 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.

If using a positive common or mixed configuration, be wary that the cans of electrolytic capacitors are often tied to the negative terminals (*not always*), so voltages may exist between the cans. The plastic sleeves of the caps should not be relied upon as insulators.

The mounting board can fit up to three different capacitors (try to use 12.5mm diameter max, 5mm or 7.5mm lead spacing caps if possible). The inner terminal of each capacitor is connected to a center common turret and one of the plated mounting holes through a trace, providing a simple connection to chassis ground. The included insulator board provides clearance between the turrets and the cans of the caps.

Based on IPC-2221B guidelines and the minimum clearances on the mounting board, this kit is not to be operated above 450V assuming a typical negative-common configuration. Please make sure there is at least 2.5mm 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. Determine whether the caps or the turrets will go through the mounting hole based on clearances and available room.
- Place the turrets on either side of the board and crimp or stake them so they make a solid mechanical connection.
- Solder the turrets in place.
- Install the board in your unit and complete the necessary wiring. Using tooth lock washers will help to ensure a solid electrical connection to the plated mounting holes.
- Stack an insulator board over the soldered ends of the turrets, then insert your new capacitors on top of the insulator.
(the insulator board is recommended to add extra clearance between the turrets and cans of the capacitors)
- Solder the caps in place. I recommend cleaning off the residual solder flux with isopropyl alcohol afterwards.