

Foil Spinner – Motor Start Capacitor Replacement

For the 115 V foil spinner. This guide covers replacing the hardwired motor start capacitor with the supplied two-terminal capacitor, crimp connectors, and protective terminal cover.

WARNING | ELECTRICAL HAZARD

Unplug the machine before opening the enclosure. The capacitor may hold a dangerous charge after power is removed. Before touching or cutting its wiring, have a person qualified to work on electrical equipment verify power is off, safely discharge the capacitor, and verify it is discharged. If you cannot do this safely, stop and contact a qualified technician.

Before you begin

Confirm the replacement is the supplied motor start capacitor with the specified capacitance (μF) and an AC voltage rating at least as high as the original. Have an appropriate wire stripper and crimping tool ready. Keep the machine unplugged throughout the replacement.

Replacement procedure

- 01 Disconnect power.** Unplug the foil spinner from its 115 V supply. Keep the plug in view so the machine cannot be energized while you work.
- 02 Open the enclosure.** Locate the existing motor start capacitor and note how its cable is routed and how the capacitor is secured.
- 03 Make the capacitor safe.** Verify the power is off, safely discharge the existing capacitor, and verify it is discharged before handling its wiring.
- 04 Cut the old cable.** Cut both conductors of the hardwired capacitor cable as close to the old capacitor body as practical. Preserve as much existing cable length as possible.
- 05 Remove the old capacitor.** Release its mounting hardware and remove it without pulling on the retained cable.
- 06 Prepare the existing wires.** Strip only enough insulation from each retained conductor for the supplied crimp connector. Do not nick or cut the wire strands.
- 07 Crimp the supplied connectors.** Crimp one supplied connector onto each conductor with an appropriate crimping tool. Gently pull each connector to confirm it is secure.
- 08 Connect the new capacitor.** Connect one wire to each capacitor terminal. The capacitor is non-polarized, so either wire can go to either terminal. Do not connect both wires to the same terminal.
- 09 Secure and cover.** Mount the new capacitor securely so the terminals do not support its weight. Fit the supplied 3D-printed protective terminal cover over the connected terminals. Make sure the cover stays in place and no bare conductor is exposed.
- 10 Close and check.** Route the cable clear of moving parts and sharp edges. Close the electrical enclosure before reconnecting power. Then check that the foil spinner starts and operates normally; if it does not, disconnect power and contact a qualified technician.

Before operation: Both connectors must be secure, one wire must be on each terminal, the protective cover must be installed, and the enclosure must be closed.