



Umbrella Tool Changer - Shuttle Motor - Test

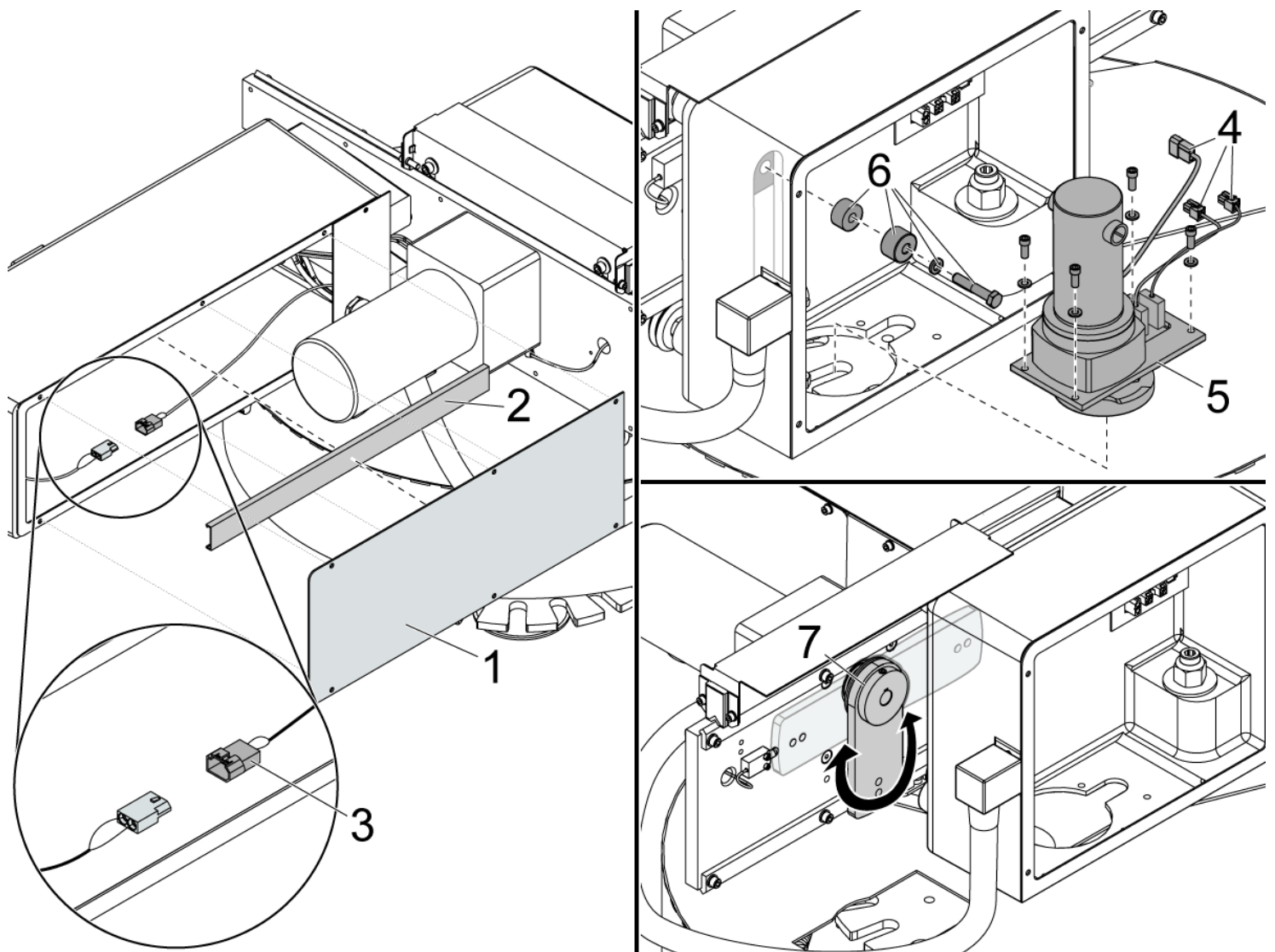
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Translation Available

VMC - Umbrella Tool Changer - Shuttle Motor - Test

This procedure tells you how to check the shuttle motor for a short, the correct resistance, and the correct operation of the clutch arm on an umbrella tool-changer. The image shows a 20-pocket umbrella tool changer. The instructions are the same for a 10-pocket umbrella tool changer.



Push **[POWER OFF]**. Set the main circuit breaker to the **[OFF]** position. Lock the main circuit breaker. Use an approved lock with an approved safety tag.

Remove the tool changer support arm cover [1] and the cable channel cover [2].

Disconnect the shuttle motor cable [3]. Measure the resistance across the (2) pins at the end of the cable [3] from the motor. The correct resistance is between 5 and 20 ohms. Measure the resistance between each motor cable [3] pins and the ground

cable. The correct resistance is open or infinite. If the resistance is not correct, replace the motor.

Remove the tool changer motor cover. Make sure the proximity sensor or mechanical switch cables and the motor power cable [4] have labels for their connection locations. Disconnect the cables [4]. Remove the carousel motor assembly [5]. Remove the cam follower assembly [6].

Push the carousel motor housing in the direction of the spindle to get access to the slip clutch arm [7]. Manually turn the slip clutch arm [7] through 180° of movement. It should rotate smoothly, but with heavy resistance. If the arm does not move smoothly, replace the motor.

Tools Required



Digital Multimeter