

1541 SPEED CONTROL
A MAVERICK ACCESSORY

Please note that there are two basic drive types as far as we are concerned. These are those drives with the spring latch holding in the disk, and the type with the toggle latch. Both are set in exactly the same way, but the speed potentiometer is found in different locations. Also note that we have located and identified a 1541 II model that has **NO** potentiometer. We currently have no solution to that particular drive problem.

Toggle Door Model (1541/1541C/1451-II)

Turn your disk drive over and use a small phillips screwdriver to remove the four screws securing the drive cover. When done, lift the plastic cover from your drive and put aside. Next, if you still have the metal RF Shield in place, remove the two screws that secure it and lift it off also. Towards the front of the drive, locate the brown PC board. That board contains the potentiometer to control the drive speed. It is generally blue and yellow with a cross slot on top. Directly in front of the potentiometer, identify the resistor in location **R4** (We have found some boards with this resistor labeled as **R12**). Before installing the Speed Control, turn the knob fully counter-clockwise and then rotate clockwise about 10 degrees. The Speed Control device has two microclips on each wire lead. Simply attach the microclips on both ends of resistor **R4** or **R12**.

At this point, with the drive still open, you may attempt to load the Maverick. If the software loads successfully, load the Parameter Menu and then load any 8K RAM Needed parameter. Using the Check Target Speed option, and referring to your Maverick documentation if necessary, try to determine if the speed is in approximate range. If not, again refer to your Maverick Documentation, and adjust the potentiometer to suit.

If you are unable to load the Maverick to preform the speed check, we suggest that you disconnect one microclip. Load the Maverick, then the Parameter Menu, and load in any 8K Needed Parameter. While using the Check Target Speed option, again reconnect the microclip and adjust the potentiometer. This may, in some cases take a little hit and miss.

Once the speed has been set, reassemble the disk drive. You may use the double sided tape on the bottom of your Speed Control to mount it in any convenient location. Lead the wire out the back of your drive case, or a small notch cut into the case.

Spring Door Model (1541)

Turn your disk drive over and use a small phillips screwdriver to remove the four screws securing the drive cover. When done, lift the plastic cover from your drive and put aside. If necessary, remove the RF shield. Next, remove the six screws that hold the drive chassis to the bottom half of the plastic case. Carefully lift and remove the entire drive assembly from the plastic case, taking care not to drop it. Disconnect any wires preventing the operation, noting their position for future re-connection.

Next remove the screws (we counted seven) holding in the large PC board on top of the drive chassis. Again disconnect and note the position of any wires preventing the removal of the board. Next remove the drive unit from the chassis by unscrewing the four screws holding it in place. These are located at both sides of the chassis. Carefully lift and remove the drive unit by sliding it forward and out of the chassis.

Turn the drive unit over and locate the potentiometer in location **VR1**. In front of the potentiometer, locate the resister at location **R2**. Before installing the Speed Control, turn the knob fully counter-clockwise and then rotate clockwise about 10 degrees. The Speed Control device has two microclips on each wire lead. Simply attach the microclips on each end of resistor **R2**. We suggest that you position the clips in the best possible direction, and lead the wires towards the rear of the drive unit, using masking tape to secure the wires from harm.

Using care, assemble the drive together in a loose fashion, as you may need to access the potentiometer at **VR1**. Connect all cables and before powering up, double check that no shorts are visible in the system.

Now, attempt to load the Maverick. If the software loads successfully, load the Parameter Menu and then load any 8K RAM Needed parameter. Using the Check Target Speed option, and referring to your Maverick documentation if necessary, try to determine if the speed is in approximate range. If not, you will have to again disassemble the drive and adjust the potentiometer at location **VR1**.

When all is well, reassemble the disk drive. You may use the double sided tape on the bottom of your Speed Control to mount it in any convenient location. Lead the wire out the back of your drive case, or a small notch cut into the case.

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