

03/15/2021

MOTOR CONTROLLER – CONTACTOR DIODE

The Skyjack Vertical Mast VM and the SJIII electric scissor models that use a Motor Controller – the units labeled as MC - both use a Motor Controller to regulate the speed of the functions. These Motor Controller equipped models use the same pump motor contactor as the models without a Motor Controller – BUT with one important difference: The Motor Controller units require a suppression, or flyback diode between the coil terminals on the contactor. The diode is placed between the power wire (19A) and ground wire (02). This diode prevents voltage from spiking and damaging the Motor Controller.

The diode is shown between the power (19A) and ground (02) wires at the contactor coil terminals. See Figure 1.

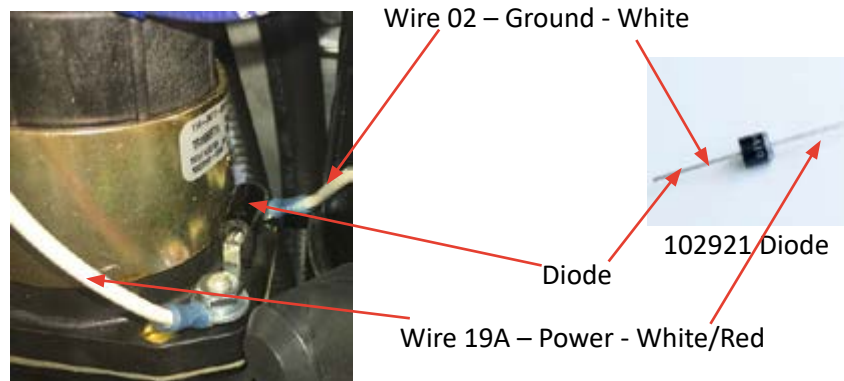


Figure 1

Original equipment diodes have a + and – sign molded into the diode body as shown. These original diodes are available as kit number 164671. If you are using a replacement diode, part number 102921, make sure the silver stripe on the diode is facing wire 19A. The contactor replacement part number is 165865. The 165865 part will have a new diode kit 164671 included. The main point is to always make sure the diode is installed on all Motor Controller units.

If you have any questions regarding this part or anything regarding your Skyjack product, please contact Skyjack Product Support at 1-800-275-9522 or email service@skyjack.com.