

03/22/2016

AUTO LEVEL OUTRIGGERS

When troubleshooting any problem, it is essential that you know how the function works in order to be able to fix it. Outrigger inspection procedures can be found in the applicable operating manual for the serial number of the unit you are working on, as well as the Service Advisory dated September 1, 2010.

We receive many questions relating to the outrigger auto level system on the Rough Terrain Scissor lifts. Simply put, the outrigger auto level system operates in two steps:

Step 1: The outriggers extend until they first contact the ground and start to lift the frame slightly. The extend limit switches on the outriggers close, telling the auto level module that the outriggers have touched the ground and power to that valve should be shut off.

Step 2: Once all four outrigger extend limit switches verify that all outriggers are extended and on the ground, the module extends only the necessary outrigger(s) to level the frame.

If you experience one or more outriggers extending too far, the extend limit switch for that outrigger may be sticking or failing. If the outrigger extends too far, the system cannot level the unit. The module will not retract an outrigger to achieve level. The extend limit switches are located at the point where each outrigger leg is slid into the frame.

Finding the problem by testing the extend limit switch inputs to the auto level module is easy. Test at the P2 connector on the module. The extend limit switch wire numbers are 68A, 67A, 66A, and 65A. Wire 68A corresponds to the left rear limit switch. 67A right rear, 66A right front, and 65A left front. Operate the auto level function and as each outrigger closes its extend limit switch, you will see input voltage (12V) at that pin position. If you see voltage at the pin and the outrigger does not stop, the module is most likely bad. More specific schematic and outrigger circuit diagrams are available in the correct service manual for the serial number of the unit you are working on. Service manuals are available at www.skyjack.com or using the USB flash drive available from parts department.

If you have any questions regarding the auto level system or any other specifics on your Skyjack product, please contact Skyjack Product Support at 1-800-275-9522 or email service@skyjack.com.