

Hydraulic Overload Pressure Switch (H.O.P) Test Procedure

The following document is a brief
testing procedure of the Hydraulic
Overload Pressure switch of an EZ
Hauler
3000 & 5500



MANUFACTURING, INC.

Test Setup

- Setup the EZ Hauler in an area large enough to extend the boom fully. Make certain the outriggers are in place as you will need to operate the crane.
- Extend all sections of the boom fully to perform this test.
- Total boom extension should be approx. 36 ft.

Test Guidelines

- • Keep the boom as flat level as possible during testing.
- While the boom is at full extension, apply 50 lbs. over the maximum amount listed on the load chart.
- Make certain power is supplied to the overload alarm (if applicable).
- Check all connections on the rear of the pressure switch for loose or corroded connections.
- Make sure crane system pressure is set to 2500 psi.

Testing

- Extend all sections of the crane fully.
- Attach the weight to the crane winch
- Using only the remote control, begin to winch up the weight.
- The remote function of “winch up” should deactivate when the weight gets a few inches off of the ground. This is the H.O.P. switch doing what it is supposed to do and that is cracking at 2250 psi and deactivating some of the remote functions.
- If your unit continues to pick up the weight, then you should consider replacing the switch. Please see the troubleshooting section of this document.

Testing Cont.

- The function of the H.O.P. switch is designed to work only with the remote control, the manual handles will not be affected by the H.O.P. switch activation.
- The remote functions that are deactivated by the H.O.P. switch activation are Boom Down/Winch Up/Extend Out.
- The remaining remote functions are active to allow the load to travel back to a more centered and stable position. Those functions are Boom Up/Winch Down/Extend In and the rotation functions.
- Some units are equipped with an audible alarm to let the operator know when the H.O.P. switch has activated.
- The manual handles will retain all of their functionality even when the H.O.P. switch activates.

Troubleshooting

- It is possible for a H.O.P. switch to have air or debris trapped around the pressure sensing surface plate and this will cause the switch to not activate due to it not sensing pressures correctly.
- If this occurs, remove any and all weight from the unit and have the crane boom lowered completely and shut the unit off, then remove the H.O.P. switch and clean the pressure sensing surface.
- Reinstall the switch and begin the test again.