

September 8<sup>th</sup> 2008

Technical Service Bulletin ..... HB-0908-08

## Moisture Related Drive Problems

There have been many questions regarding our drive system and how to trouble shoot a unit that won't drive. Hy-Brid lifts use a motor controller that incorporates a built in diagnostic system for drive problems.

***Refer to TSB #HB-1104-08 dated Nov 4<sup>th</sup> 2008 for code reading procedure.***

Because Hy-Brid lifts are primarily electric units, they are more susceptible to moisture related problems. If you are experiencing a unit that won't drive or drives erratically, the first thing you should be checking for is moisture in any electrical connections. This would include the 10 pin connector at the upper control box, the 10 pin connector at the lower control near the battery charger, and the wire connections on the motor controller. Most joysticks and motor controllers returned to us as defective, have no problems when they are tested.

When I get a call from a service tech regarding a drive problem, the first thing I ask is "Was this unit just pressure washed or has it been in the rain?" Care must be taken when pressure washing. ***DO NOT SPRAY DIRECTLY INTO ANY ELECTRICAL CONNECTIONS.*** This will generally give you a 1-2 code. We have found that when this code is displayed, there is cross talk between pins at a connector due to corrosion from moisture.

In order for the drive system to work properly, it is extremely important that all electrical connections be clean, dry, and tight. For more specific information regarding a drive problem, don't hesitate to contact our service department.

### **Steve "Chappie" Chapman**

Service, Warranty, & Repair Parts Manager

(262) 644-1300 office

(262) 573-0396 cell

**Custom Equipment, Inc. / Hy-Brid Lifts**

[www.hybridlifts.com](http://www.hybridlifts.com)

[chappie@customequipmentlifts.com](mailto:chappie@customequipmentlifts.com)