Commercial Grade
Truck Equipment

H6400 SERIES CRANE TROUBLESHOOTING

TRANSMITTER & CONTROL MODULE

The Control Module has four LED's that are used to indicate device status:

ESTOP LED:
- GREEN - Indicates RUN (normal)
- RED - Indicates ESTOP
- Flashing RED - Indicates fuse blown or relay fault

FUNCTION/FAULT LED:
- GREEN - Indicates function ON, no fault
- RED - Indicates no voltage to relay, short to ground or blown fuse
- Flashing RED - Indicates short to supply or shorted output relay
- Not lit - Indicates no function

LINK LED:
- GREEN - Indicates LINK
- RED - Indicates NO LINK

STATUS LED:
- GREEN - Indicates STATUS normal
- RED - Indicates unrecoverable fault; requiring factory authorized service
- Flashing RED - Indicates low battery

The Transmitter has two LED's that display the mode and status of the device:

ACTIVE LED:
Momentary ON or Flashing indicates POWER UP procedure or Program status. LED will flash with each function during normal operation indicating Transmit Status to the Module Control is good.

LOW BATT LED:
Momentary ON or Flashing indicates Power Up procedure or Programming status. During normal operation, this LED will only flash to indicate battery low. Battery life is 1 year.

ACTIVE and LOW BATT LED'S:
Both LED's flashing in sync indicates one of the switches is stuck.

EMERGENCY DROP DOWN PROCEDURE

MANUALLY LOWER BOOM:

In case of EMERGENCY, when the boom has to be lowered without the hydraulic flow. The procedure below should be followed:

1. Make sure the boom will be lowered on to a proper support

2. Locate the counterbalance valve at the boom elevation cylinder manifold block.

3. Loosen the hex nut and slowly turn the Allen head screw clockwise (note number of turns) until the boom just begins to lower. Remove tools and hands from the crane while the boom is lowering.

   CAUTION: Do not turn the adjustment screw too far; it will damage the counterbalance valve.

4. After the boom is rested on the support, turn the Allen head screw counter clockwise about the same number of turns that were made during lowering of the boom.

5. Tighten the hex nut to secure the adjustment screw in place.

6. After the problem has been fixed and proper hydraulic flow present, re-adjust the counterbalance valve by using the procedure in the previous page.

WARNING:

Do not try to adjust the counterbalance valve while the boom is moving. This may cause personal injury.

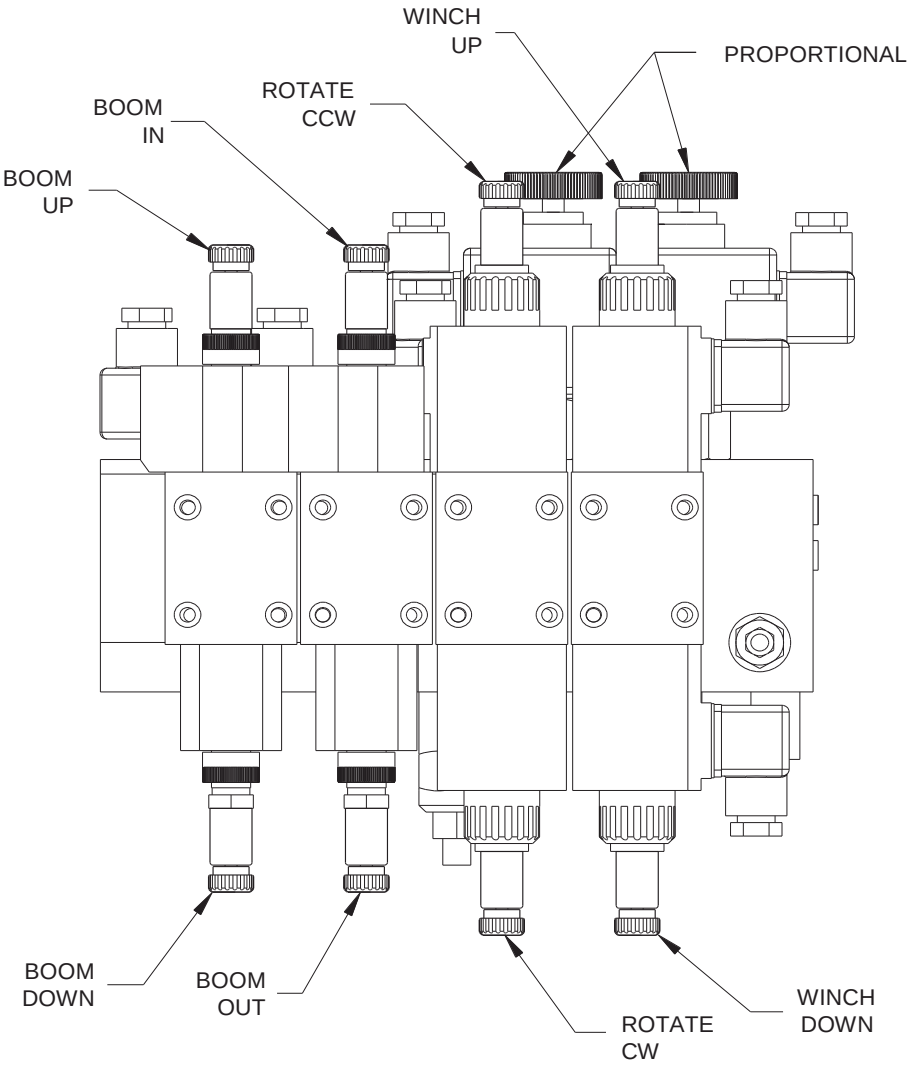
EMERGENCY VALVE OPERATION

In case electricity is no longer available to operate the crane or in the event the control system failed, use the manual overrides on the hydraulic control valves to operate the crane.

1. **PROPORTIONAL**
   - Increase hydraulic flow by turning knob clockwise.
   - Decrease hydraulic flow by turning knob counter clock wise.

2. **BOOM UP, BOOM OUT, ROTATE CW & WINCH UP**
   - Turn knob on their valves respectively clockwise.

3. **BOOM DOWN, BOOM IN, ROTATE CCW & WINCH DOWN**
   - Turn knob on their valves respectively counter clockwise.



HYDRAULIC VALVE ASSEMBLY

Note: Any time you manually override the crane operations, you must reset the valves back to their original settings after correcting the problem with the crane. Original settings on all valves including proportional valves are completely open (all the way out).