

Redundant Boom High Angle Limit System



Proximity Switch



Solenoid Valve

The **electric boom angle limit system** is simply designed to use a **solenoid valve** to redirect the **joystick** “up” signal from the **control valve** to the tank. This system incorporates sensors on the **boom** base to override the boom hoist hydraulics.

When the **boom** comes within two inches of the **boom stops**, the sensors send an electrical signal to a **solenoid valve**. The **solenoid valve** is installed in the **hydraulic signal line** between the standard **boom kick-out** and the **boom hoist control valve**.

When actuated, the **solenoid valve** redirects the **joystick** signal to the **hydraulic tank**. Since the **control valve** no longer has a pilot signal, the **spool** returns to neutral, and the **boom** will be immobilized. Lowering the **boom** is not affected.

This system is **NOT** a replacement for the **hydraulic boom hoist limit system**. Seatrax designed it as a secondary safety measure.

NEVER disconnect the **hydraulic stops** and rely solely on the **electrical stops**.

This option is available on new orders or can be ordered as a kit to retrofit older cranes.