

Redundant Boom Limit System

Proximity Switch



Solenoid Valve

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

When the **boom** comes in contact with the **boom rest** or **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. The **boom hoist** will be immobilized, and the static brake will set. Normal **boom** operations are not affected. For maintenance purposes, this system can be disabled when the boom is safely in the rest.

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.