

**DISABLE OPEN CIRCUIT DETECTION
FOR THE TLD 025133 JOYSTICK
CONTROLLER**



The outputs of the 025133 controller are designed to operate hydraulic control coils for cargo transfer. The normal ohmic value is 2 to 9 ohms of resistance for most hydraulic coils.

Some electrical designs by TLD Lantis may have used small control relays (Bosch) for added control logic. The ohmic value of a Bosch relay is about 70 ohms and will be interpreted as an open circuit by the joystick controller if this is the only device connected to an output.

The technical reason for this fault is the relay requires almost no current (0.1 amps) to operate while the hydraulic coils require 1 to 3 amps to operate.

To disable the open circuit faults from the use of a relay, a load resistor should be added between the output that is faulting and ground. Use a 24 ohm 10 watt resistor for each output affected.

