

# TECHNICAL TIPS

## CRANES

Type of Tip:

### Engine Running and No Control Lever Functions

Necessary Tools:

**Personal Observation**  
**Multimeter as needed**

Applicable Models:

**HC50 / HC60 / HC80 / HC110**  
**HC165 / HC230 / HC275**

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CRANES

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### Basic Safety Rules



#### Danger

Failure to follow the instructions and safety rules in the Operator's Manual and Service Manual appropriate to your machine will result in death or serious injury. Many of the risks identified in the operator's manual are also safety risks when maintenance and repair procedures are performed.

Do not perform maintenance unless:

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
  - The manufacturer's instructions and safety rules
  - Employer safety rules and workplace regulations
  - Applicable government regulations
  
- You have the appropriate tools, lifting equipment and a suitable location.

The information contained in this technical tip is a supplement to the service manual. Consult the appropriate service manual for your machine for safety rules and risks.

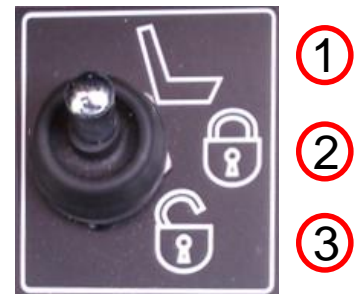
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### Operation Lock Switch in Lock Position

- With engine running the control levers actuate any function.
- Place operation lock key switch to position 1, adjust seat weight to reflect operator's weight. Controls should work as designed.



Operation Lock Switch

- **OPERATION (1)**: The operator can operate the machine using the control levers only when seated. Electrical seat switch must be closed by operator's weight. Check for correct weight setting of seat support.
- **LOCK (2)** :Machine controls are disabled. Hydraulic pilot pressure to levers isolated.
- **RELEASE (3)** :Operation lock released and seat switch disabled..

### Winch Mode Key Switches

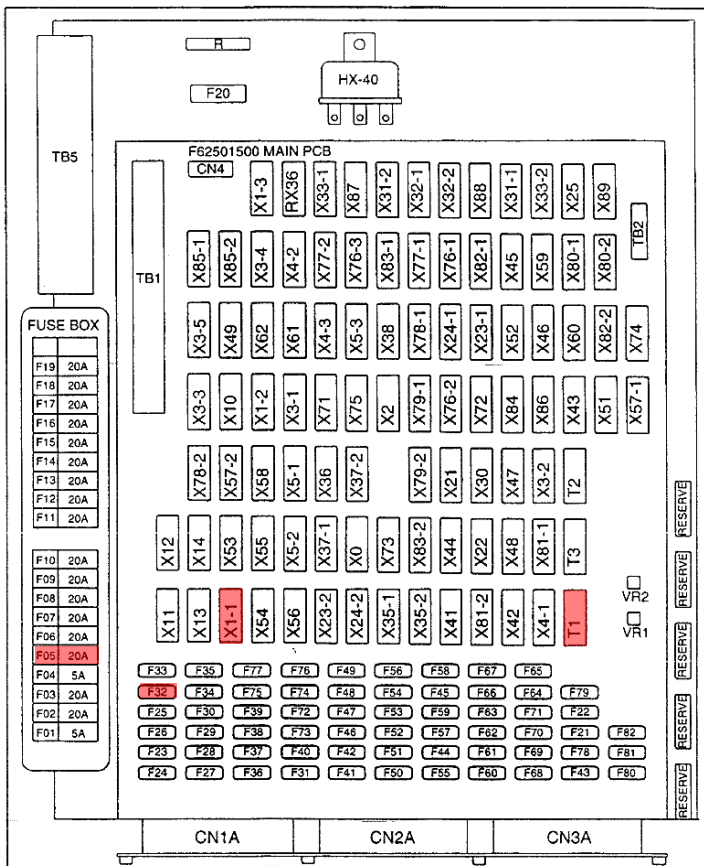
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### Other Possible Causes (Consult crane electrical schematics)

- Relay T1 not energized.
- Relay X1-1 not energized or coil bad.
- Fuse F5 20A main fuse blown.
- Fuse F32 3A is blown.
- Control switch TS51 has failed.
- Hydraulic solenoid SL51 coil is bad.



**Main Electrical Panel  
Control Relays & Fuses**