

# TECHNICAL TIPS

## CRANES

Type of Tip:

### Hoist Gear Change Motor Continues to Turn

Necessary Tools:

**Personal Observation**  
**Multimeter**  
**Basic Hand Tools**

Applicable Models:

**SK315 / SK405 / SK415 / SK565 / SK575**

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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.

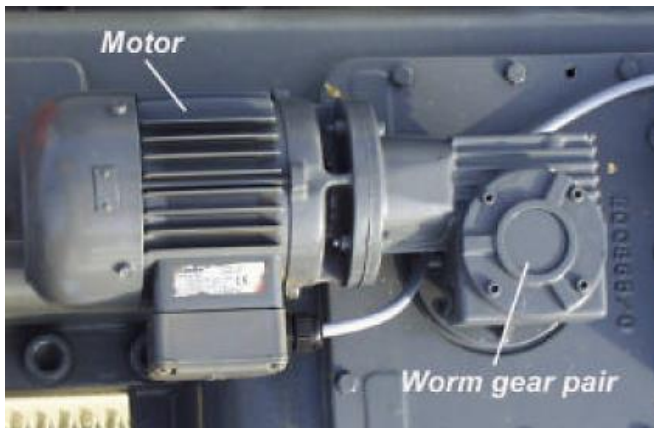
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### Changing of Hoist Gears (G1-G4)

- When the hoist gears are changed, the hoist motor must be stopped fully and the hoist brake engaged. When the hoist motor gear selection switch is changed, the hoisting function is disabled and a message appears on the display (Hoist Gear Changing Please Wait).
- The gear change motor is energized and as it turns the limit switch will for the desired gear will fall into the notch and close.
- If the motor doesn't slow down and stop at the desired position, it will continue to turn to find the selected gear. This occurs when one of the capacitors is weak or has failed.



**Capacitors in B Panel**

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### Other Possible Causes

- The limit switch is out of adjustment or has failed.
- The PLC fails to receive a signal from the proximity switch at input E4.1 – E4.4.

