

TECHNICAL TIPS

CRANES

Type of Tip:

Slow or Sluggish Control Functions

Necessary Tools:

Personal Observation

Applicable Models:

HC50 / HC60 / HC80 / HC110

HC165 / HC230 / HC275

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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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Hydraulic Pump Controls in Manual Mode

Pump Flow too Low to Support Function Demand (HC50 / HC60 / HC80)

- The output for P1 & P2 which are the variable or piston pumps can be controlled automatically or manually.
- If the pump control selector switch is placed in the upper position the output of the pumps is controlled automatically based upon the engine RPM's.
- If the pump control selector switch is placed in the lower position the output of the pumps is controlled manually by adjusting the pump flow adjustment dial.
- If function demand is greater than the supply (in manual mode), the functions will stall. Engine stalling and pump damage can occur.



**Pump Control
Selector Switch**



**Pump Flow
Adjustment Dial**

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Hydraulic Pump Controls in Manual Mode

Pump Flow too Low to Support Function Demand (HC110 / HC165/ HC230 / HC275)

- In addition to the pump controls, these models will have individual winch drum adjustment dials that can be used in automatic or manual mode. These adjust the current supplied to the proportional valves for the winch motors.
- If placed in manual mode with minimum pump flow and motor speed, the function will basically be at zero speed.



**Pump Control
Selector Switch**



**Pump Flow
Adjustment Dial**



**Winch Drum Speed
Adjustment Dials**