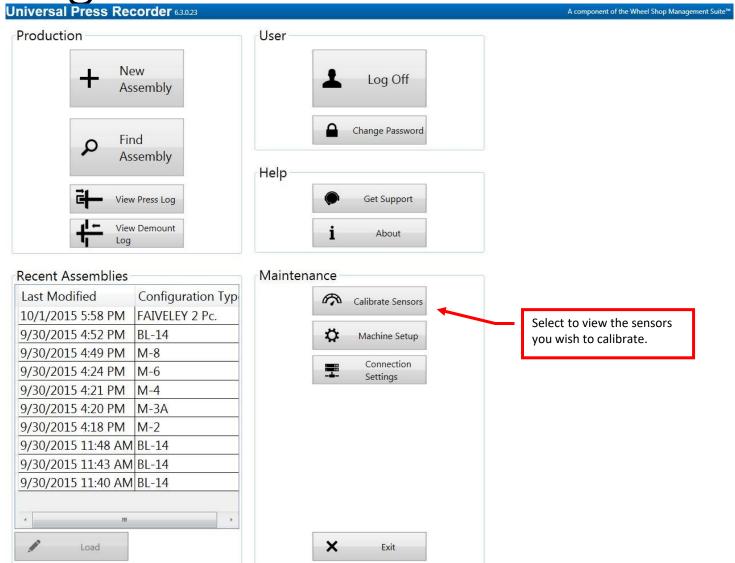
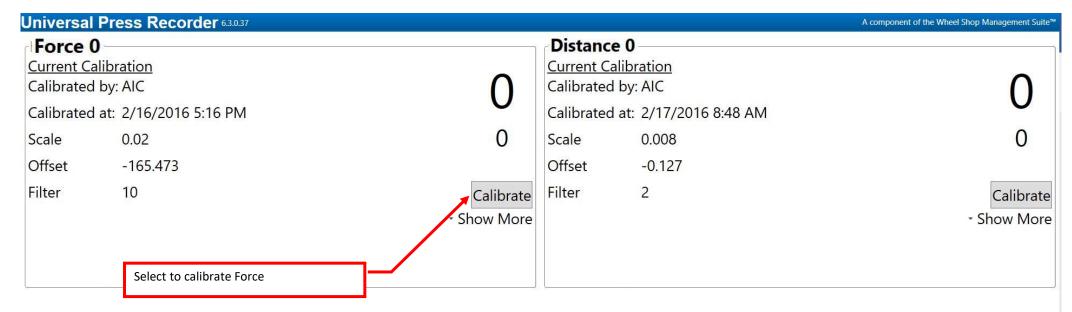
# Calibrating Force and Distance

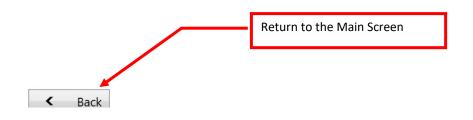


#### Calibrating Force and Distance

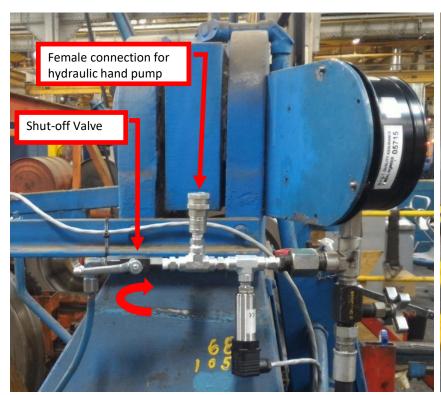


### Calibrating Force





- Step 1 Close the shut-off valve to isolate the master gauge and pressure transducer.
- Step 2 Connect the hydraulic hand pump that will be used to pressurize the transducer and Master Gauge for calibration.





A typical hydraulic system should include an isolation or "shut-off" valve, a connection for a hydraulic hand pump or portable hydraulic power unit, the chart recorder's electronic transducer, and your calibrated Master Gauge.

If your system does not include each of these, please contact your supervisor for additional instructions

Refer to the following steps for calibrating:

#### Step 1

Isolate the master gauge and pressure transducer by closing the shut-off valve.

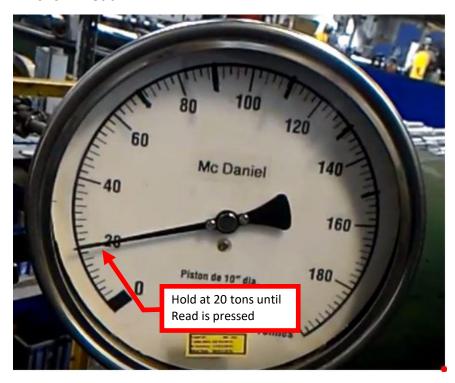
#### Step 2

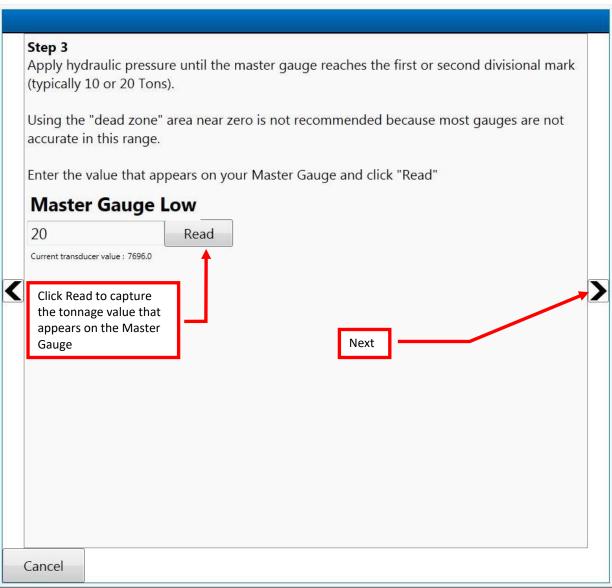
Connect a hand pump or portable hydraulic unit that will be used to pressurize the transducer and Master Gauge for calibration and testing.

Select to continue force calibration

Cancel

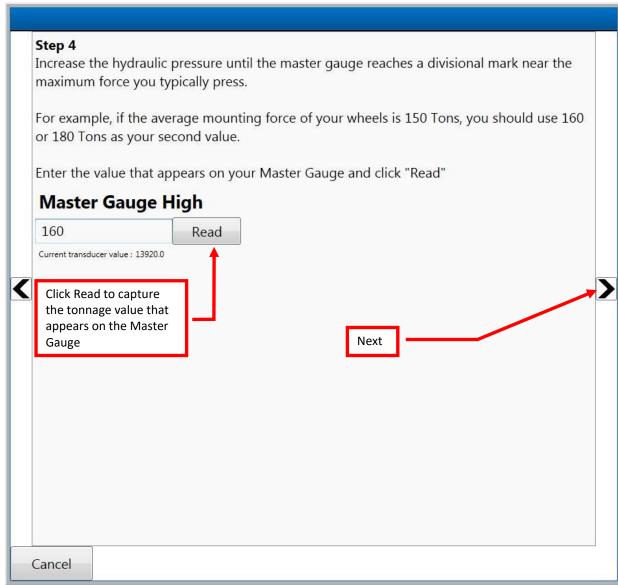
- Using the hand pump, apply hydraulic pressure until the master gauge reaches the first or second divisional mark (typically 10 or 20 Tons).
- Enter the held value that appears on your Master gauge and click "Read"



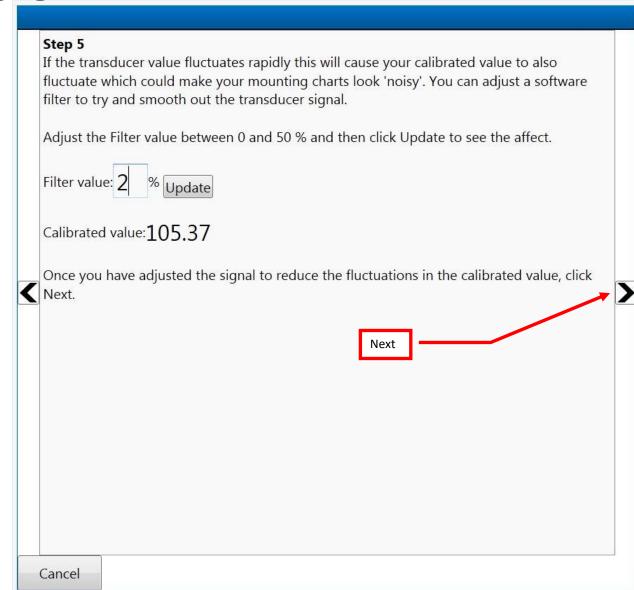


- Using the hand pump, increase the hydraulic pressure until the master gauge reaches a divisional mark near the maximum force you typically press.
- Enter the held value that appears on your Master gauge and click "Read"

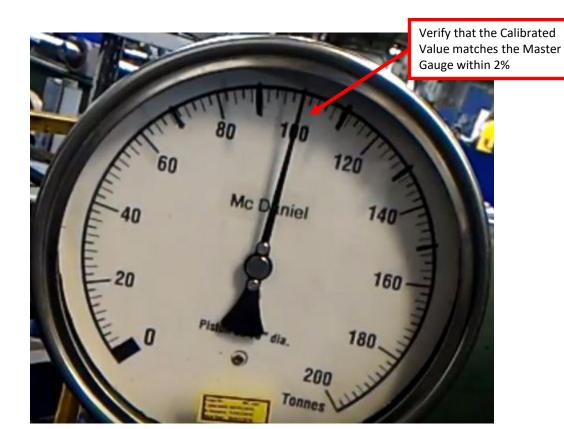


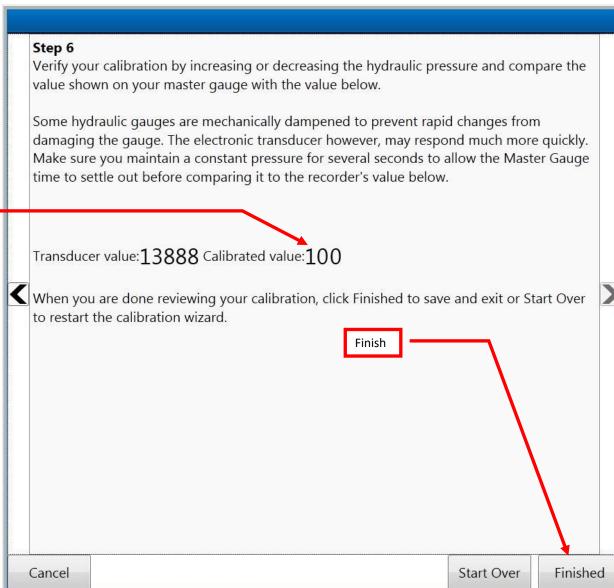


 You should not have to adjust the filter. This was set up by AIC on installation.



 Verify the calibration by increasing or decreasing the hydraulic pressure and compare the value shown on the Master Gauge with the calibrated value shown on the screen.

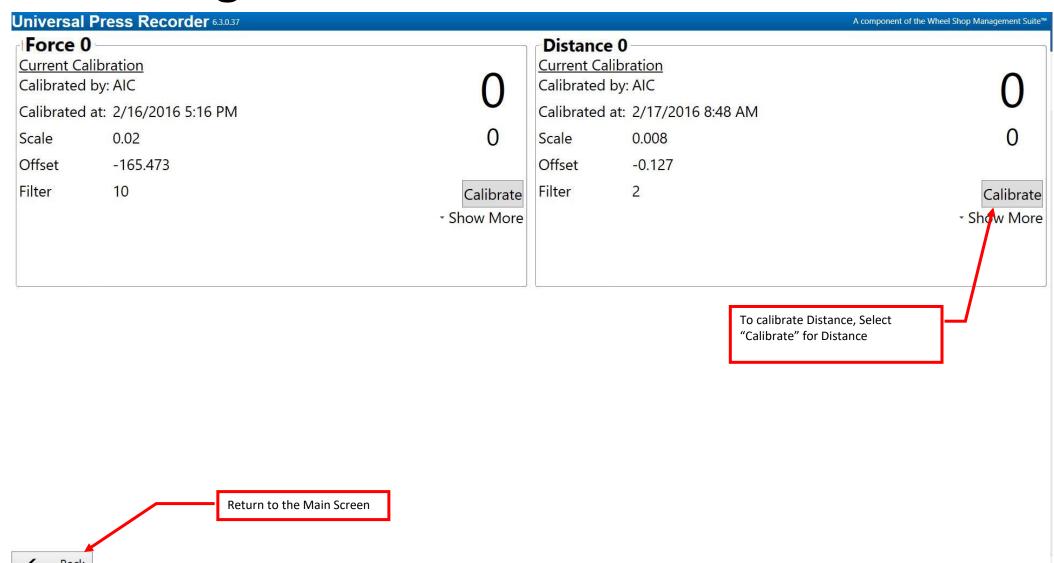




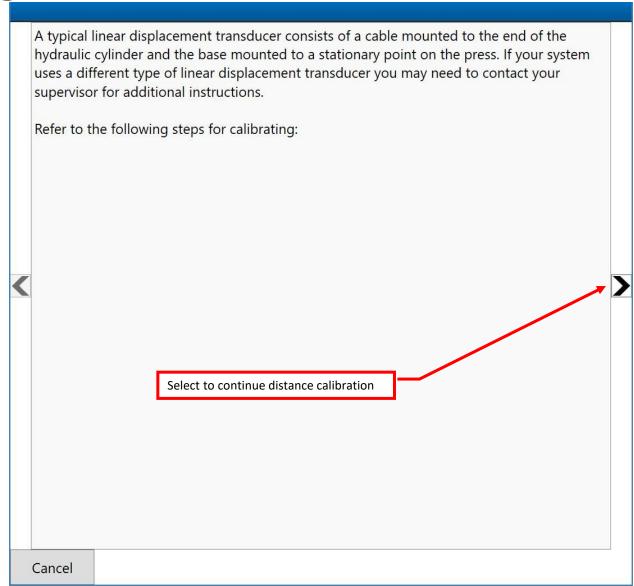
 When finished calibrating the force transducer, open the shutoff valve.



## Calibrating Distance

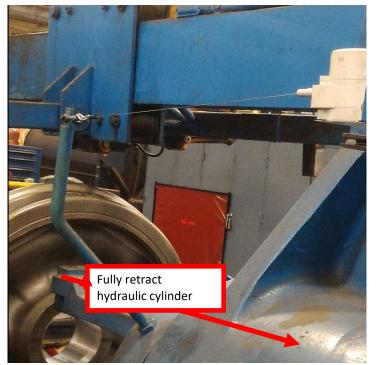


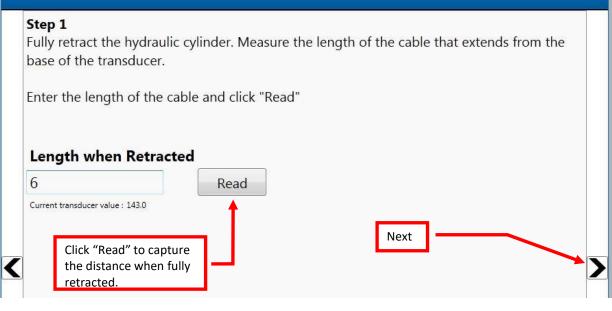
#### Calibrating Distance



### Calibrating Distance – Step 1

- Fully retract the hydraulic cylinder.
- Measure the length of the cable that extends from the base of the transducer to the end of the cable.
- Enter the length of the cable and click "Read"







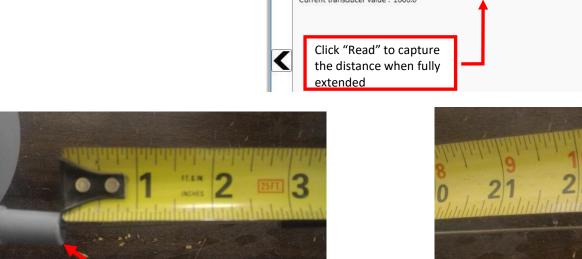
Measure cable length from transducer base to the end of cable.



### Calibrating Distance – Step 2

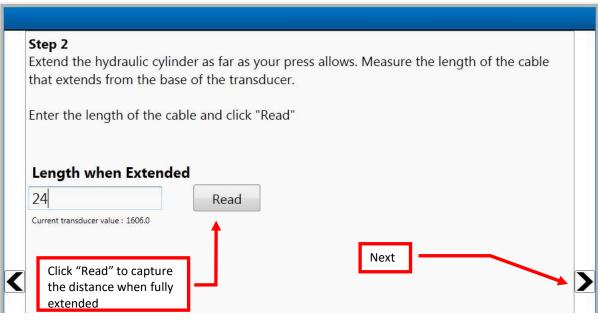
- Extend the hydraulic cylinder as far as your press allows.
- Measure the length of the cable that extends from the base of the transducer to the end of the cable.
- Enter the length of the cable and click "Read"





from transducer base to

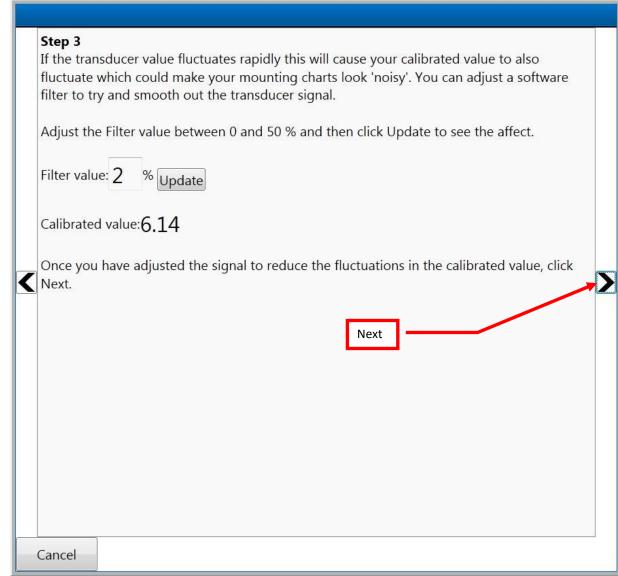
the end of cable.





### Calibrating Distance - Step 3

 You should not have to adjust the filter. This was set up by AIC on installation.



## Calibrating Distance - Step 4

 Verify the calibration by extending or retracting the hydraulic cylinder and compare the length of the cable with the calibrated value on the screen.



Verify the Calibrated Value matches your measurement

