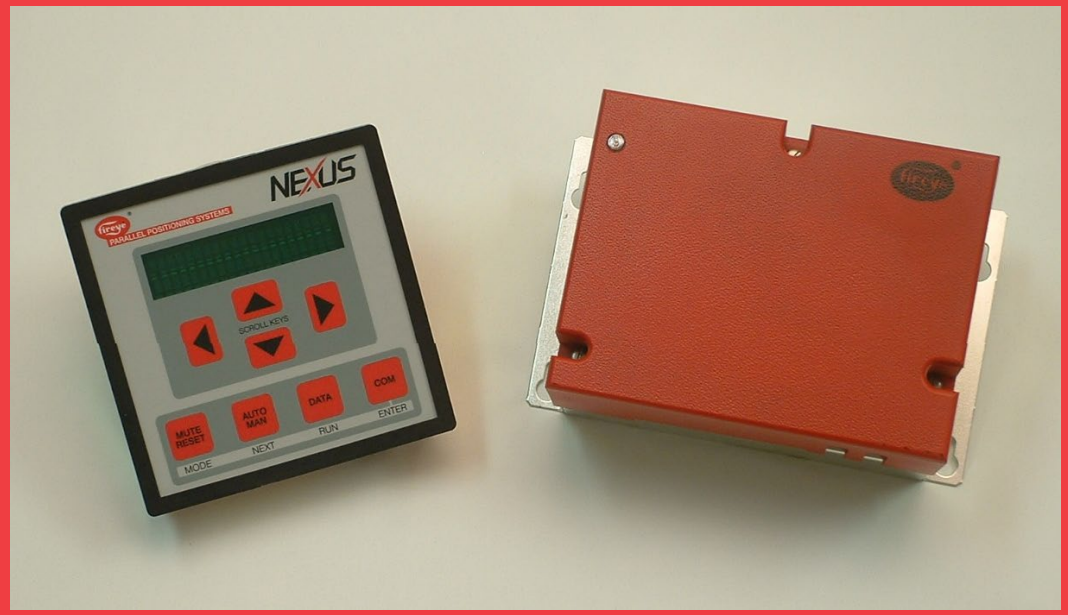
NX6100 & PPC6000 SERVOMOTOR REPLACEMENT

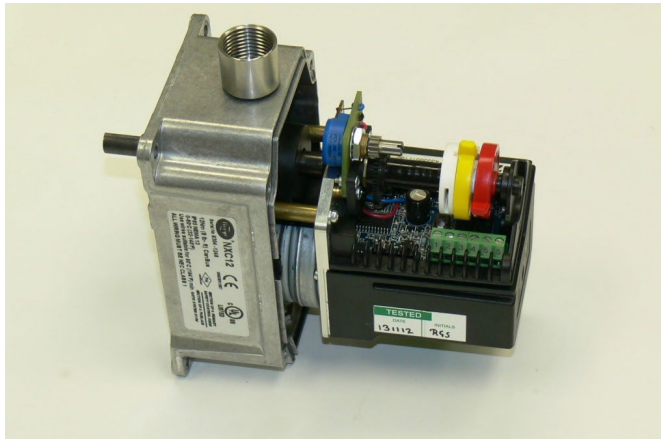


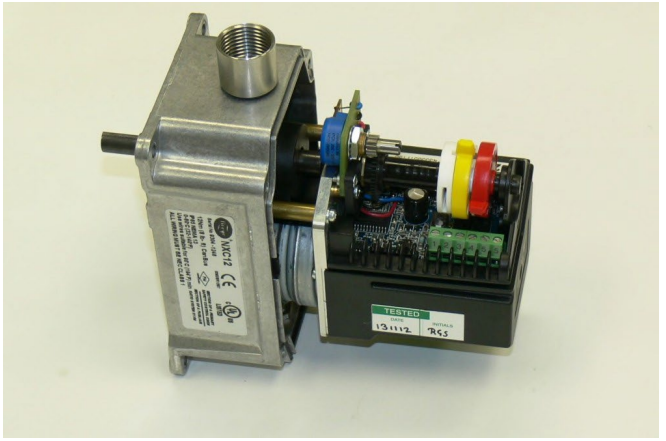
PR-00-2-0600-0-015-A

Servomotor Replacement

- All NXC series servomotors are 24volt powered
- All servomotors communicate via Canbus proprietary serial communications
- Each has a unique serial number
- Automatically registered when powered up
- Simple 4 Wire Wiring

Servomotor Replacement





- Each servo has a unique serial number which is found on the label. For example: 3456 1234
- The first group of numbers is the serial number, 3456, the second group is the date code, 2012, week 34

- PO (Off) Limit Switch Adjusters
- Yellow: Factory Direction (CCW)
- Red: CW Rotation. Option 5.x set to 1
- Direction is from shaft end with wire entry at top

Servomotor Replacement

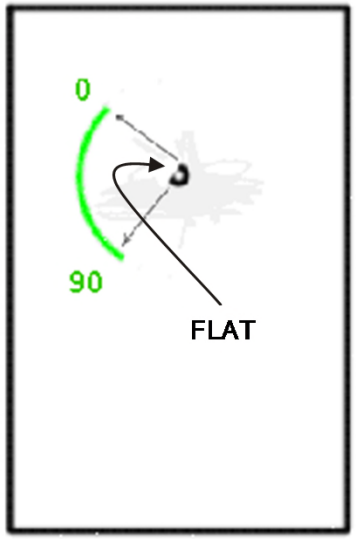
Factory Default Direction
“Anti Clockwise” (CCW)
Position of Limiters

Alternate Direction
“Clockwise” (CW) Position of Limiters

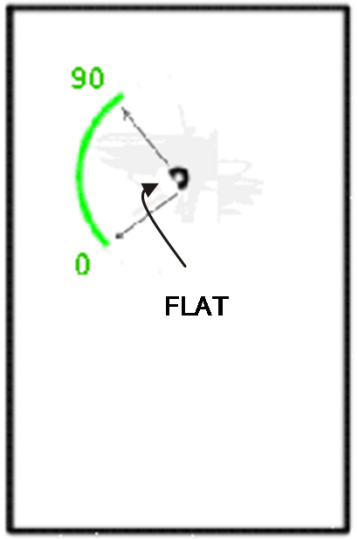
Servomotor Replacement

Shaft Positions as viewed from Shaft End
For NXC04, NXC12, NXC20, NXC40 ONLY

9 to 12
O'clock



P0
Option Parameter 5.x
Set to 0



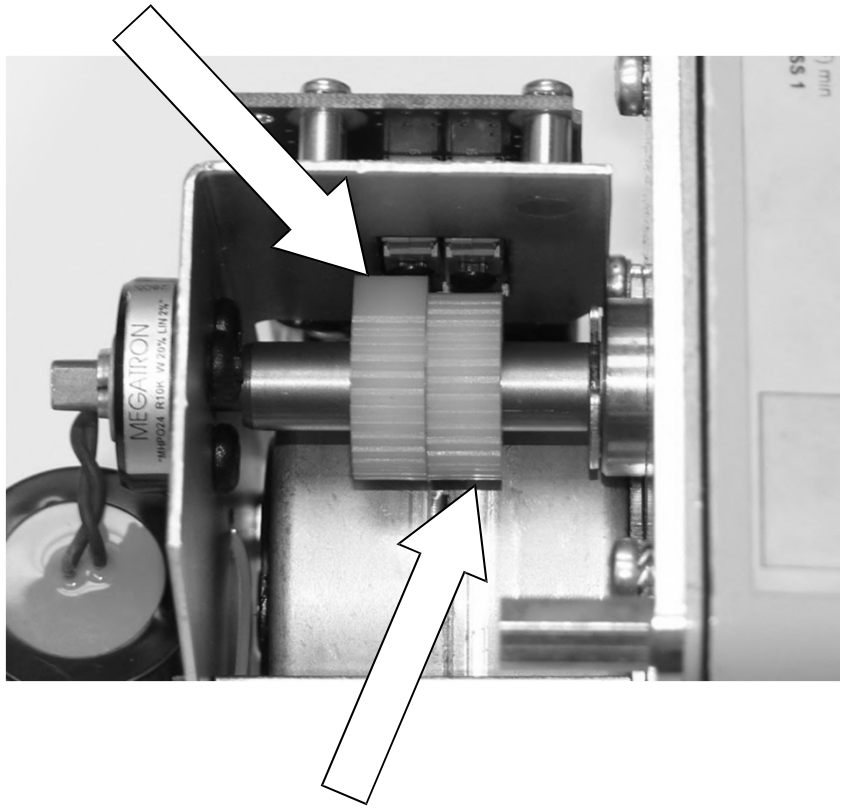
P0
Option Parameter 5.x
Set to 1

6 to 9
O'clock

Servomotor Replacement

NXC40 Servomotor has no “fine adjustment” screw. These cams are only friction tight.`

Counter-clockwise limiter



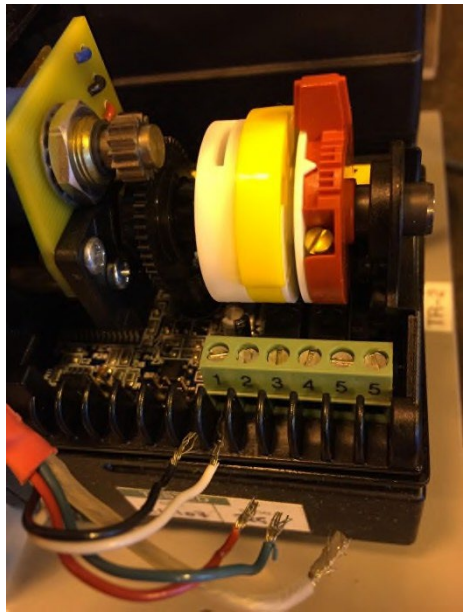
Clockwise limiter

Servomotor Replacement

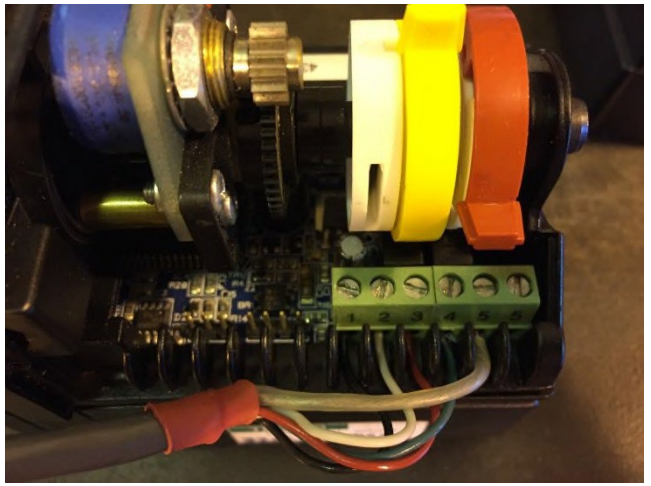
For this example, the gas servo will be replaced on the trainer.

Note the position of the flat on the gas servo. It drives CW to open.

Servomotor Replacement

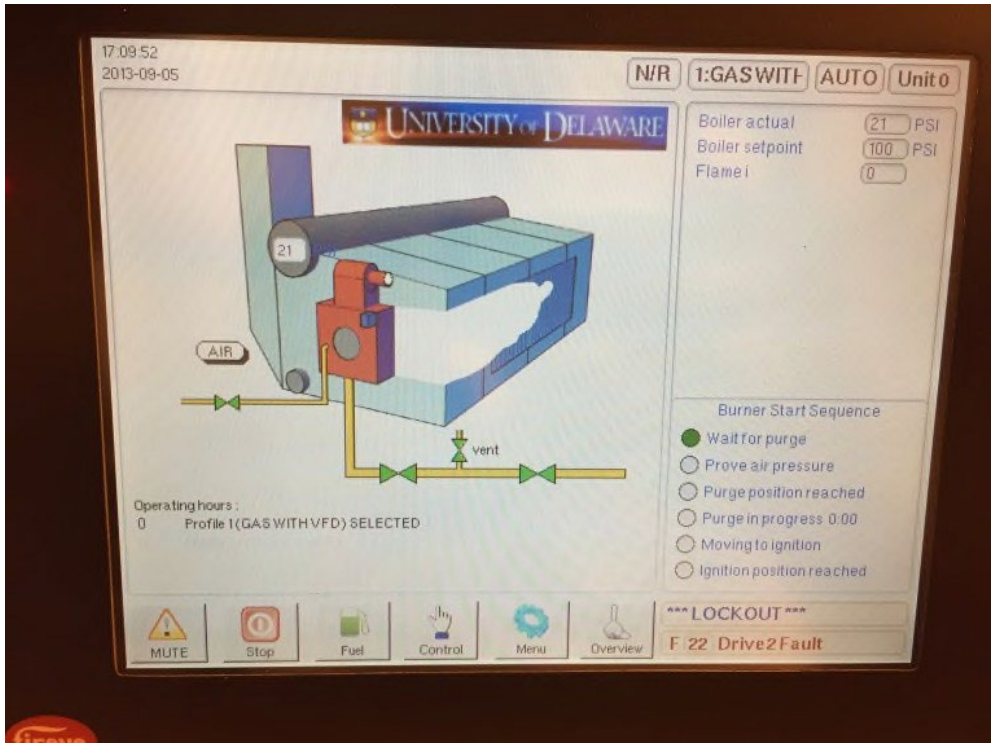


- Power down the control
- Disconnect the wiring from the servo
- Disconnect coupling



- Connect wiring to new servo.
- Do not connect coupling at this time
- Power up control

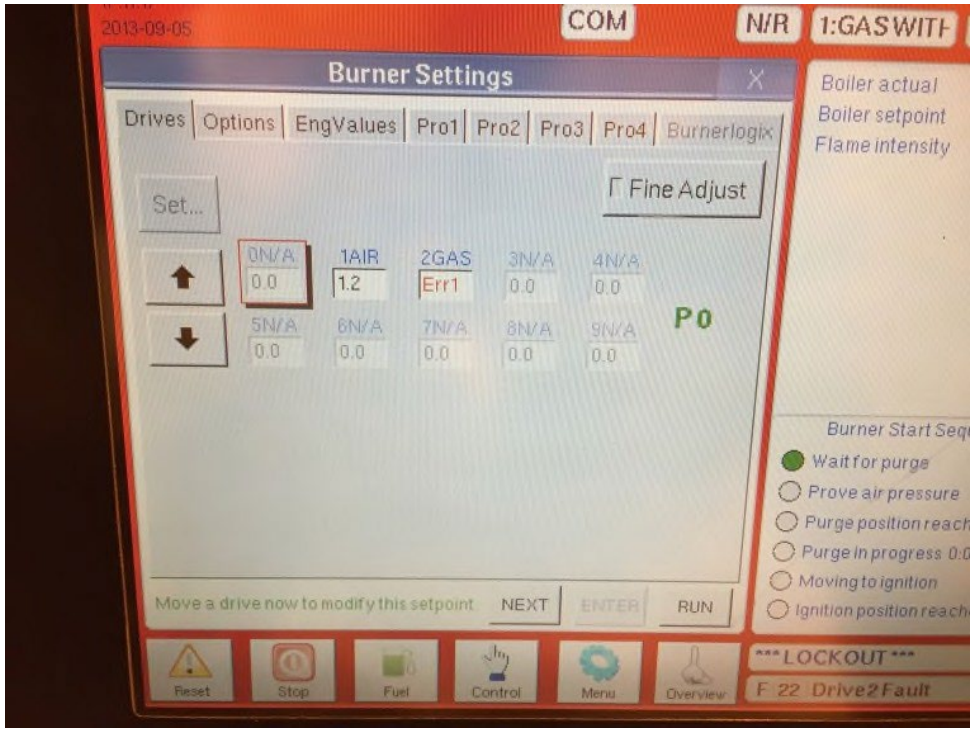
Servomotor Replacement



The servo replaced will show a fault on power up

Servomotor Replacement

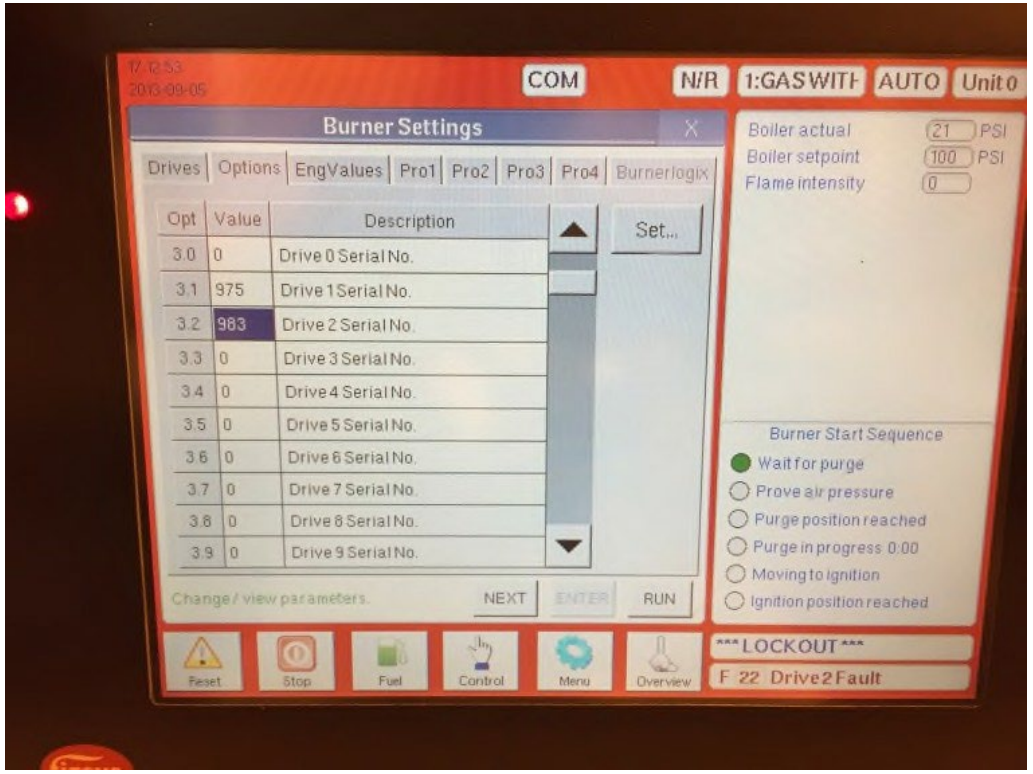
903 Enter 38 Enter



903038 Enter

Go into full commissioning passcode

Servomotor Replacement

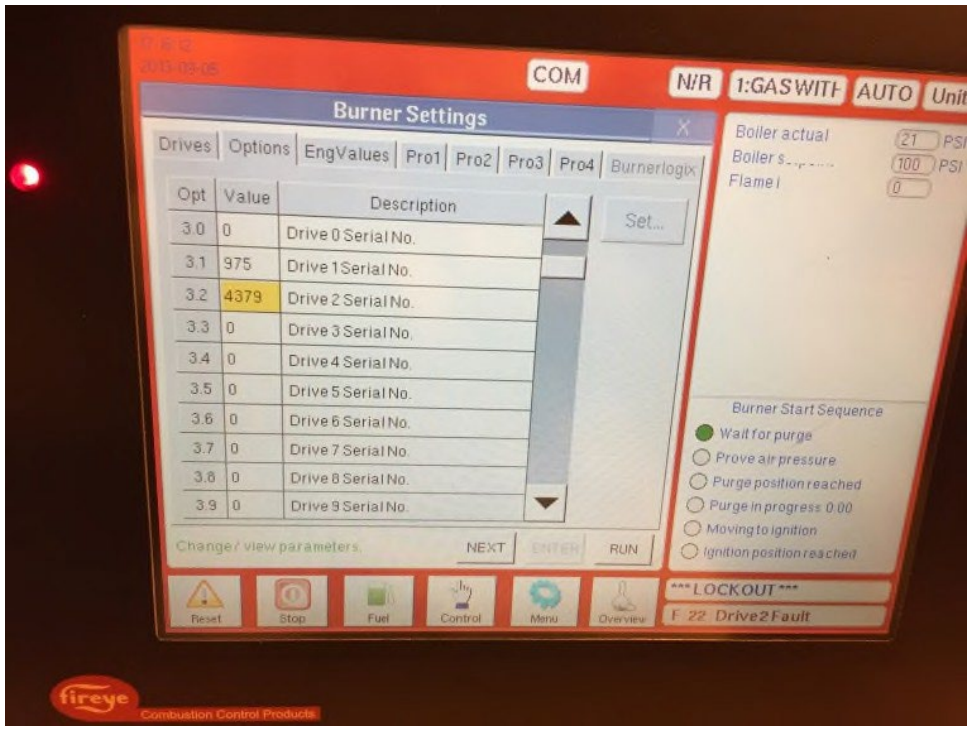


Go to option 3.XX to select new servo serial number

Servomotor Replacement

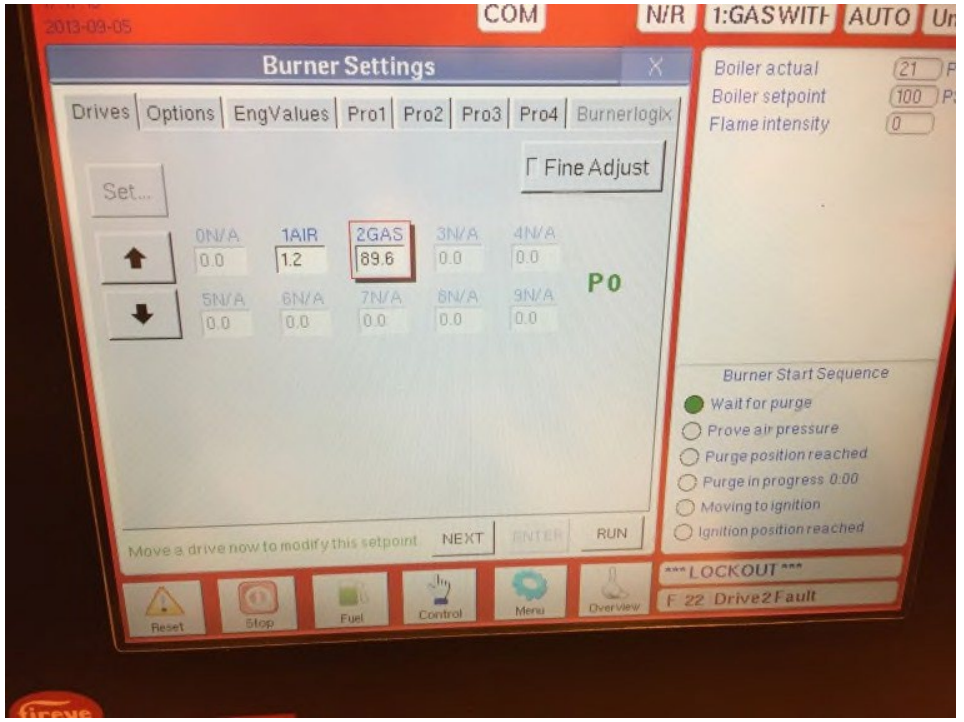
Find first 4 digits of serial number
4379 in this example

Servomotor Replacement



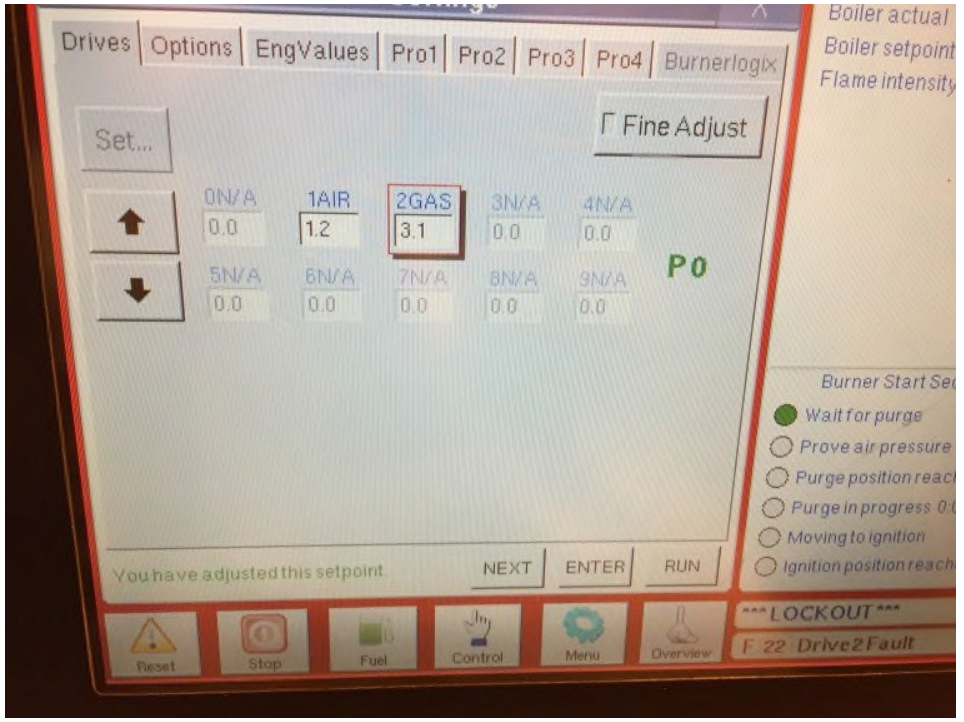
Select the new servo serial number

Servomotor Replacement



The gas servo is full open because it is reversed

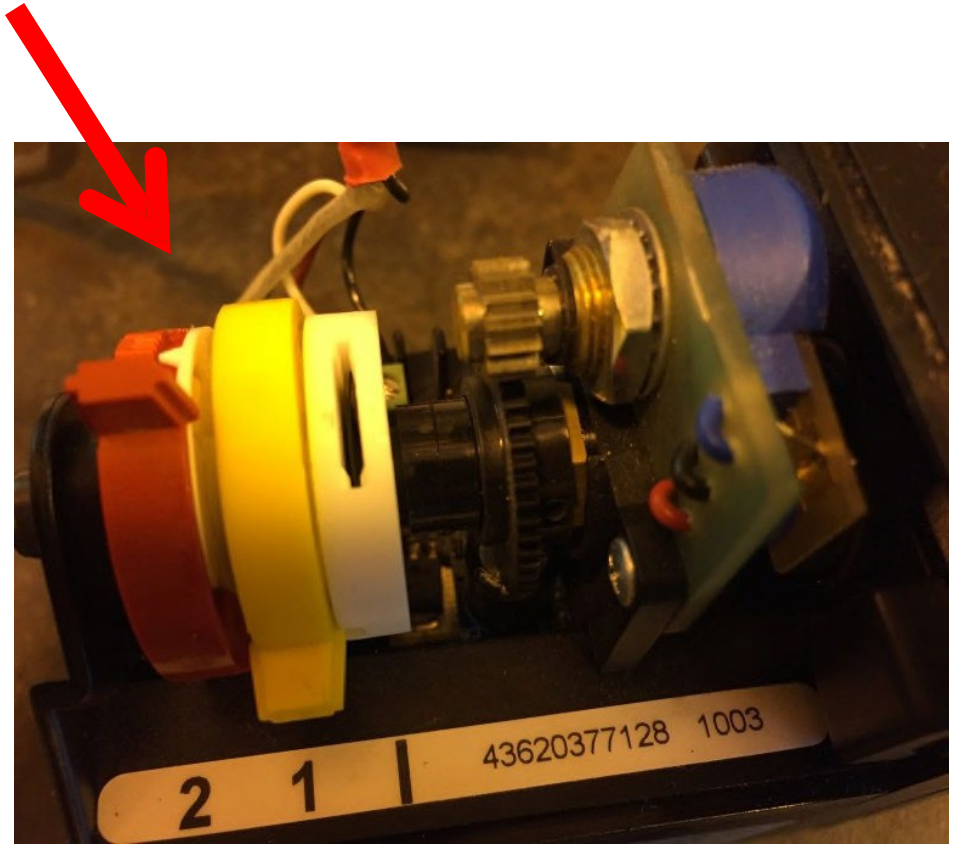
Servomotor Replacement



Drive servo to minimum position

Servomotor Replacement

- Adjust PO position if necessary



Connect new servo to coupling and check travel

Servomotor Replacement

- "Enter" the P0 setting
- Start burner and "Next" completely though the curve
- Check combustion at each point
- Exit commissioning