NX6100 and PPC6000



Servo 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







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







Factory Default Direction "Anti Clockwise" (CCW) Position of Limiters

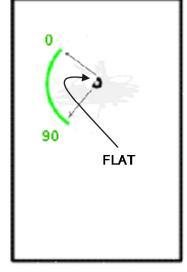


Alternate Direction "Clockwise" (CW) Position of Limiters

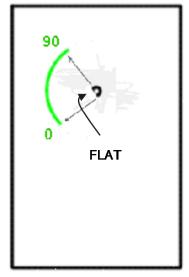


Shaft Positions as viewed from Shaft End For NXC04, NXC12, NXC20, NXC40 ONLY

9 to 12 O'clock



P0 Option Parameter 5.x Set to 0



P0 Option Parameter 5.x Set to 1

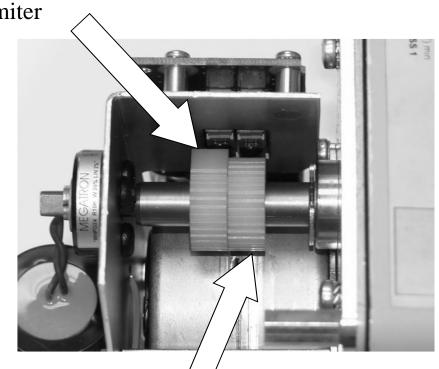
6 to 9 O'clock





Counter-clockwise limiter

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



Clockwise limiter



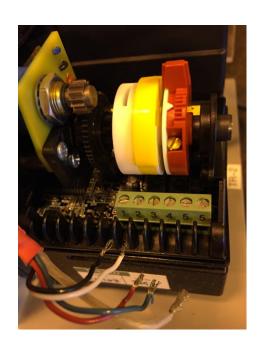


For this example, the gas servo will be replaced on the trainer.

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







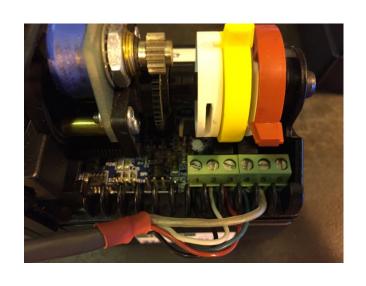
Power down the control

Disconnect the wiring from the servo

Disconnect coupling







Connect wiring to new servo.

Do not connect coupling at this time

Power up control









The servo replaced will show a fault on power up







903 Enter 38 Enter



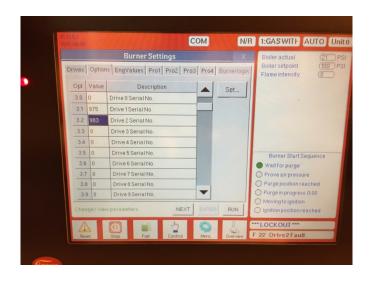
903038 Enter

Go into full commissioning passcode









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







Find first 4 digits of serial number 4379 in this example









Select the new servo serial number









The gas servo is full open because it is reversed









Drive servo to minimum position



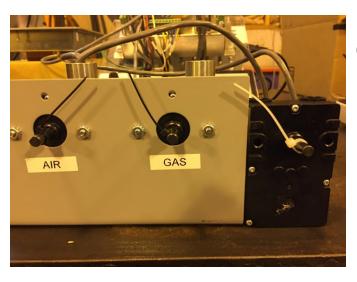




Adjust PO position if necessary







Connect new servo to coupling and check travel







"Enter" the P0 setting

Start burner and "Next" completely though the curve

Check combustion at each point

Exit commissioning

