

PEDRO

Safe User and Operating Manual

November 2012

Mentor or Teacher Sponsor must be present

Operator must be knowledgeable of PEDRO's operating procedures and have permission of Teacher Sponsor or Mentor

PEDRO must go through a pre demo inspection prior to use to ensure vitality.

Pre Demo Inspection and Operator's Manual

1. Visually inspect all wiring to ensure no loose/frayed wires.
2. Carefully eliminate dust and debris
3. Check for possible air leaks in or around the barrel system
4. Ensure stability of wheels and chassis
5. Hook Up Controls Laptop
6. Run tether from laptop to CRIO on PEDRO
7. Turn switch to ON (next to CRIO)
8. Ensure Relief Valve is on OPEN
9. Properly load object in Barrel 1,2, or 3
10. Ensure safe perimeter (No one within 100 feet in front of barrels)
11. Close valve
12. Turn on compressor
13. Maximum PSI is 120 PSI
14. Press Trigger on the joystick - Button 1, 2, or 3 to corresponding barrel
15. Wait 2 minutes before launching next object

Demo Safety Measures

- Always keep PEDRO pointed in a safe direction
- Keep bystanders from walking or standing in front of robot, even when not being used
- Always ensure that the relief valve (located on back end of air tank) is OPEN when robot is not in use
- Load barrel(s) when relief valve is OPEN
- Only Load objects that seal well inside barrel
- Never look straight down barrel to see if it is loaded, use the depth stick to check the depth instead
- Operator must announce you are shooting before each shot
- Never allow food or drink near PEDRO

Any questions or problems – Contact Nick Petras at nicpetras@gmail.com