

Maintenance / Operation Information

To tune rockets:

1. Output of pressure regulator set to 30 PSI (2 BAR). See Fig 1 for component.
2. Pistons must extend faster than they retract
 - a. Flow regulator at base of pistons must be screwed most of the way in. See Fig. 2 lower square.
 - b. Flow regulator at top of pistons must be unscrewed most of the way. See Fig. 2 upper square.

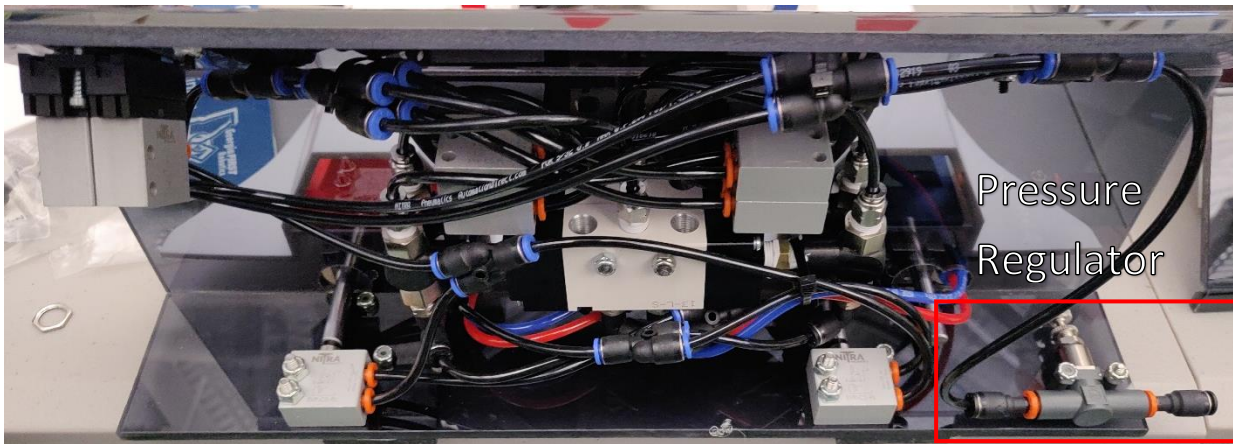


Figure 1

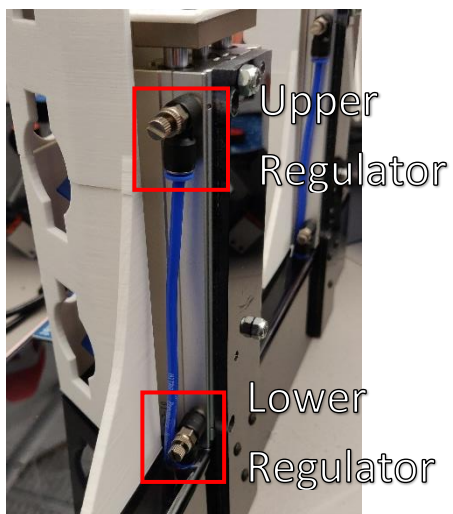


Figure 2

To operate rockets:

1. For manual operation:
 - a. Turn mode selector switch to manual mode
 - b. Press colored buttons to lift the corresponding colored rockets
2. For automatic operation
 - a. In manual mode lift a rocket up until it is fully extended
 - b. While holding button to lift rocket, switch the trophy from manual to automatic
 - c. Release button

Troubleshooting

Issue	Solution
Rockets do not lift off in manual mode.	Check to see if the pressure regulator is set to output 30 PSI, if not follow steps to tune pressure regulator. If the regulator is outputting the correct pressure, unscrew the bottom flow regulator a small amount.
The rockets begin to quickly oscillate and eventually stall in automatic mode.	The flow regulators are improperly tuned, follow steps to tune rockets.
The rockets launch too quickly.	Check to see if the pressure regulator is allowing more than 30 PSI through its output, if the pressure regulator is properly tuned, retune the top flow regulator to be more screwed in.
The rockets retract too quickly.	Check to see if the pressure regulator is allowing more than 30 PSI through its output, if the pressure regulator is properly tuned, retune the bottom flow regulator to be more screwed in.
The trophy does nothing even when in manual mode.	Check that the air supply is supplying more than 30 PSI. If it is, follow steps to retune flow regulators.