4917 Pre-Match Checks

Inspect and test the following **MATCH NUMBER:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Drivetrain

* All 6 wheels drive forwards and backwards
* Chains are not loose
* Wheels are not too worn
* Shifter works
* Left encoder works
* Right encoder works
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Intake

* All 8 wheels intake and expel properly
* All belts and chains are tight
* “Far” intake sensor works
* “Close” intake sensor works
* Arms can apply open, close and no pneumatic force
* Arm spring works and has correct amount of tension
* Arms-up and arms-down limit switches work
* Arms can be raised and lowered (with no cable tangles)
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Elevator

* Can go up and down at full speed
* No broken bearings, cable tangles, etc.
* Lower limit switch works
* Climbing arm extends
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# General

* All RoboRio/NavX/PDP wires are securely attached
* Camera works and is properly aligned
* Air isn’t leaking excessively
* Drive laptop is charged/charging
* Correct bumpers are on
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Final Checks

* Air is filled
* Fresh battery is ready
* Laptop and controllers are packed
* Robot is in match-start configuration
  + Low gear
  + Elevator all the way down
  + No pneumatic force on arms
  + Arms up inside frame perimeter
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_