

# TITAN ROBOTICS CLUB

## TEAM 492



### PIT CHECKLIST:

- All status codes: 10x falcons and 3x talon srx are normal (alt. orange)
  - 8x falcons drive base
  - 2x talon on electronics tray
  - 1x talon on elevator
  - 2x falcons on intake
- Limelight and camera stream
  - **Limelight cover is OFF**
  - Drive feed and Limelight feed displayed correctly
  - Limelight data updates in real-time
- Check all limit switches and beam breakers
  - Beam Breaker - Intake
  - Limit switches
    - i. Elevator (bottom left)
    - ii. Pivoting arm
    - iii. Wrist
- Wiring and Tightening
  - No wires sticking out on the bottom or disconnected
  - Tighten **Elevator chain tensioners** and support (5/32 on both sides)
  - Inspect Arm/Wrist cables
- Pre-Queue
  - New fresh battery (has a tag and blue tape)
    - Use beak, percentage > 100%, resistance < 0.020
  - **Bumpers ON and SECURED**

### Post-Match Mechanical Inspection

- Inspect Intake
  - Check belts and pulleys for damage
  - Inspect wheels to make sure there is no need to replace

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- Inspect CAN and power wiring
- Inspect wrist mechanism
- Inspect Elevator and Arm
  - Check motors and chains for damage
  - Ensure they are freemoving
  - Check gravity comp
- Electronics
  - Make sure no wiring has become damaged or unplugged as a result of the match

## In-Queue Subsystems Check:

- **Make sure the joysticks are in the right slots**
  - **0 (Driver Xbox), 2 (Operator Logitech Attack), 3 (Button Panel), 4 (Switch Panel)**
- Swerve Alignment (Check before match start)
  - 360° steering clearance on cart
  - Drive straight forward, left, then right. Press x, then return to driving forward
- Elevator and Arm
  - Stabilize robot on cart and clear area immediately in front of robot

Joystick	Zero elevator, then drive it all the way up and then down.	Check for <b>BOTH</b> limit switch engagement on dashboard
Joystick + red button	Drive up elevator for clearance, then drive arm all the way up	Check for top limit switch engagement

- Intake

Joystick + green button	Drive the wrist from upper to lower limit
Trigger	Check that the intake spins both

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Button	forward and in reverse
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## Match Setup

- **Check control order: 0 (Driver Xbox), 2 (Operator Logitech Attack), 3 (Button Panel), 4 (Switch Panel)**
- Cube preload
- Auto start position