Crescendo Pit Checklist (Worlds)

First:

- [ ] Plug in driver station get logs
- [ ] Take off note covers
- [ ] Take off bumpers if needed
- [ ] Reset Climber
- [ ] Nothing loose in robot
- [ ] Check for major damage

Maintenance:

- [ ] Bumpers (red or blue)
- [ ] Check bumper bracket screws
- [ ] Check for rips in shooter roller grips/clean roller grips
- [ ] Check for rips in conveyor roller grip/clean roller grip
- [ ] Check for rips in intake roller grips/clean roller grips
- [ ] Clean shooter glide plate
- [ ] Clean shooter wheels
- [ ] Air gun chassis
- [ ] Press in battery terminal covers
- [ ] Put on note shield

Electrical:

- [ ] Flip to check PDH connections
- [ ] Air gun underbelly
- [ ] Check if radio and wires secured
- [ ] Check shooter connections
- [ ] Check for camera wires secured
- [ ] Check camera mounts for damage
- [ ] Clean camera lenses
- [ ] Check ALL connections on top of board
- [ ] Rio power light (green solid)
- [ ] CANivore lights (2 green blinking or Stat yellow blinking)
- [ ] Pigeon lights (2 yellowish blinking)
- [ ] Swerve cancoder lights (green flickering)

Intake:

- [ ] Check for clearance between carbon fiber rods (spin test)
- [ ] Tighten screws on the ends of carbon fiber rods
- [ ] Check for damage in carbon fiber
- [ ] Check for peeling tape on carbon fiber rods
- [ ] Check end caps of carbon fiber rods for damage
- [ ] Check for pulley damage / loose pulley
- [ ] Check for cracked polycarbonate plates at either end of intake
- [ ] Check gear cleanliness and grease
- [ ] Tighten screws in side support brackets
- [ ] Check diverter screws
- [ ] Wiggle rollers on hex axle side

Chassis / Pivot:

- [ ] Chassis
  - [ ] Check for breaks in the guard
  - [ ] No loose parts inside module
  - [ ] Check rotation of wheels freely
  - [ ] Check bevel gears screws
  - [ ] Check chassis rivets
- [ ] Pivot
  - [ ] Check belt tension
  - [ ] Check pulleys damage
  - [ ] Check screws on pulley
  - [ ] Check pivot lock collar
  - [ ] Mallet axle back in
  - [ ] Wiggle pivot encoder

Conveyor:

- [ ] No loose belts
- [ ] Tighten guide screws
- [ ] Check for pulley damage
- [ ] Check for cracks in both polycarbonate plates
- [ ] Check for loose spacers on polycarbonate plates / tighten flathead screws
- [ ] Tighten screws at end caps of roller
- [ ] Check for wheel damage
- [ ] Check HDPE and poly for wear

Shooter:

- [ ] No loose belts
- [ ] Check wheel spacing
- [ ] Check side polycarb plate screws
- [ ] Check motor axles screws
- [ ] Check motor mount screws near pulley
- [ ] Check axle end caps
- [ ] Glide plate screws
- [ ] Make sure wheels spin freely
- [ ] Check for gear damage
- [ ] Check carbon fiber rollers' end screws
- [ ] Check aluminum spacers

Climber:

- [ ] Check motor support bolts
- [ ] Check axle end caps
- [ ] Check damage in string string
    - [ ] String wear at hook
- [ ] Check string guide
- [ ] Check damage in hook
- [ ] Check for damage in arm
- [ ] Check for damage in arm attachment

Trap:

- [ ] Reset trap mechanism to starting configuration
- [ ] Check for wear in surgical tubing
- [ ] Check to see whether any bolts have loosened

Ops check:

- [ ] Plug ethernet cable in
- [ ] ENABLE robot
- [ ] Check swerve modules
    - [ ] Zero modules
    - [ ] Run modules and check if they are running in same direction
    - [ ] Drive forward
    - [ ] Navigate: Photon vision
- [ ] Run intake
    - [ ] Note should go freely in centered or on side
    - [ ] Check current of motor
- [ ] Shooter
    - [ ] High/Speaker
    - [ ] Low/Amp
    - [ ] Check current of motors
- [ ] DISABLE & robot off -> change battery and secure strap