

Packing checklist

Triple Helix, the Menchville High School Robotics Team
FIRST Robotics Competition Team 2363

Robot

1. Robot
2. Cart
3. Driver station
 - 3.1. Laptop and charger
 - 3.2. Controllers and cables
4. Bumpers
 - 4.1. Red bumpers
 - 4.2. Blue bumpers
5. Cube
6. Drive team tool bag
 - 6.1. Tools
 - 6.2. Safety glasses
 - 6.3. Gloves
7. Safety glasses bin
 - 7.1. Safety glasses
 - 7.2. Earplugs

Toolbox

1. Tools
 - 1.1. Oscillating tool
 - 1.2. Chain breaker and tensioner
 - 1.3. Drill bits
 - 1.4. Lithium grease
 - 1.5. Loctite
 - 1.6. Rivets and rivet gun
 - 1.7. Hot glue gun
 - ~~1.8. Hex broach~~
 - 1.9. Tape
 - 1.9.1. Kapton tape
 - 1.9.2. Red, blue, white Gaffers tape
2. Steel cable cutting tool (plus steel cable and ferrules) for elevator

Administrative

1. In folder

- 1.1. Itinerary
- 1.2. Packing checklist
- 1.3. Hotel rooming list
- 1.4. Transportation list
- 1.5. Student permission slips
- 1.6. Phone list
- 1.7. Critical contracts and receipts
- 1.8. Work schedule
2. In toolbox
 - 2.1. CAW and supporting documents
 - 2.2. Robot lockup form
 - 2.3. Team roster
 - 2.4. Strategy maps
3. With M&M
 - 3.1. Chairman's poster and supporting docs
 - 3.2. EI documentation
 - 3.3. Entrepreneurship documentation

Power tool cube

1. Top shelf
 - 1.1. Dremel
 - 1.2. First aid kit
2. Bottom shelf
 - 2.1. Band saw
 - 2.2. Vice
 - 2.3. Vacuum
 - 2.4. Plastic shipping film

Battery cube

1. 6 charged batteries
2. Battery supplies bin
3. Mechanical spares tote
4. Electrical spares tote

Pit tote

1. Extension cords and power strips
2. White board markers and cleaner
3. Spray cleaner and towels
4. Dust pan and brush
5. Garbage bags

Mechanical spares tote

1. Critical spares

- 1.1. Spectra (qty ____)
- 1.2. MiniCIMS (qty ____)
- 1.3. 775s (qty ____)
- 1.4. 550s (qty ____)
- 1.5. Roller chain (qty ____)
- 2. Small parts bins
 - 2.1. Bearings
 - 2.2. Shaft collars
 - 2.3. Spacers
 - 2.4. Nylon washers
- 3. Zip ties
- 4. Red gaffers tape
- 5. Spare cube intake assy

Electrical spares tote

- 1. Critical spares
 - 1.1. Radio
 - 1.2. PCM
 - 1.3. VRM
 - 1.4. Pneumatic manifold block (6 port)
 - 1.5. Pneumatic solenoid valve
 - 1.6. Cameras
 - 1.7. Encoders and cables
 - 1.8. Compressor
 - 1.9. RS-775-pro motors
 - 1.10. RS-550 motors
 - 1.11. Mini CIM motors
 - 1.12. Hall Effect sensors
- 2. Bulk
 - 2.1. Pneumatic tubing
 - 2.2. Wire (10 AWG, 14 AWG, some 22 AWG)
 - 2.3. Igus chain
- 3. Hydraulic crimper
- 4. Battery Beak
- 5. Connector/crimpers
- 6. Heat shrink tubing
- 7. POE Ethernet cable
- 8. Reflective tape
- 9. Zip-ties

Electrical roll-around toolbox

- 1. Heat gun
- 2. Soldering iron

3. PowerPole connectors/crimpers

M&M

1. Video Camera bag (batteries, chargers, spare SD cards)
2. Still Camera bag (batteries, chargers, spare SD cards)
3. Card Reader(s) or USB cables for downloading camera video
4. Tripods (2)
5. Stand supplies
 - 5.1. Buttons
6. (3) Laptop(s) with charger for video transfer from SD cards to drive team review medium
7. External USB hard drive if required for video delivery for drive team review
8. Power strip(s) for multi-day events to recharge batteries in hotel rooms
9. Extension cord(s) for stand power
10. Banner for drive team station
11. Team flag for robot intro
12. Pit sponsor banner

Programming

1. Laptops
2. Chargers
3. Ethernet Cables
4. RoboRio USB Cables

Scouting

1. Scouting sheets
2. Clipboards
3. Pens/pencils
4. Paperclip / other clips for securing scouting sheets

Material

1. Alu sheet 1/16" thick
2. Alu sheet 1/8" thick
3. Alu angle
4. Polycarb sheet 1/8" thick
5. Hex shaft

Carpet roll

Pit topper

1. Pit topper
2. Shelves
3. Power strip
4. Lights?