





Kit of Parts

Ted Hood FRC Kit of Parts Engineer



FRC Kit of Parts 101

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- Feedback
- Resources







Team

- Kate Pilotte, Senior KOP Manager
 - KOP since 2006
 - Proud of the flexibility, but...
 - Embarrassed by complexity
 - FTA
 - kpilotte@firstinspires.org



- Ted Hood, KOP Engineer
 - KOP since 2018
 - Veteran United States Air Force
 - Former Senior Mentor
 - FTA/Inspector
 - thood@firstinspires.org





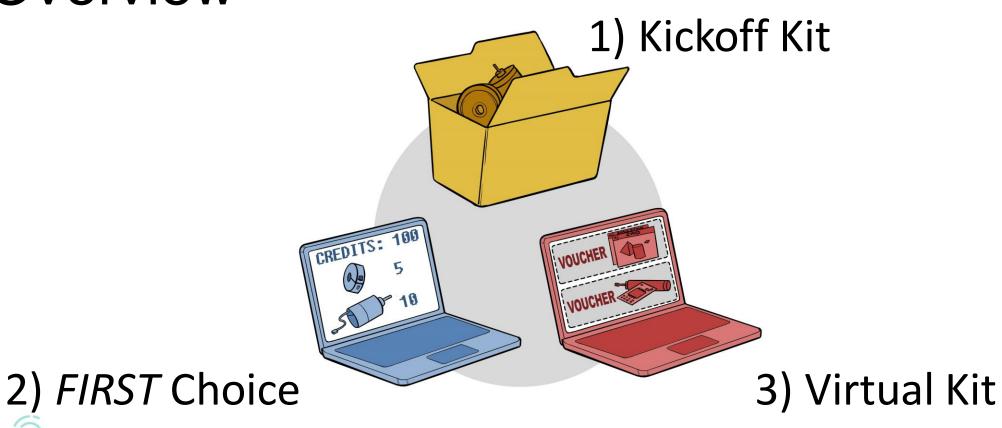








Overview



https://www.firstinspires.org/robotics/frc/kit-of-parts





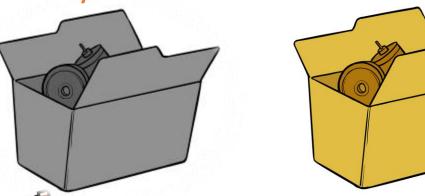
Kickoff Kit



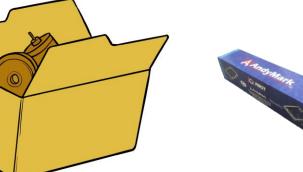
A box of parts delivered to teams at the start of the season...

- Used to be... everyone got the exact same set of stuff
- Now... categories based on team status, selection

Everyone Tote



Rookie Tote



Drive Base Kit/Voucher



US\$450 M AndyMark



Other...







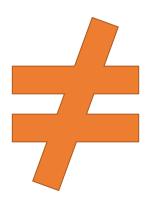
Kickoff Kit

A couple takeaways...

AndyMark Voucher

US\$450

MAndyMark



FIRST Choice







US\$450

MAndyMark





Kickoff Kit

Helpful Information

- Information on how to use items can be found on our <u>Screensteps repository</u>
- Some items in Kickoff kit are tied to vouchers (See Catalog)
- Teams are provided with estimated sizing and weight prior to Kickoff
- Checklists are available on the Kit of Parts Website
 - Checklists are broken down by tote
 - Item Description, Supplier Name, Part Number, Qty, Where to get more, and Picture



2020 Kickoff Kit Checklist

BLACK TOTE

Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
Foam Gripper	John Deere	M156751	2	Not Available	1
Travel Waist Pack	Kettering University	TravelPack	1	Bob Nichols bnichols@kettering.edu	- Silver
BB8 Banner	The Walt Disney Company	BB8BANNER	1	Not Available	WARE
Battery Sealed Lead Acid, 12V, 18Ah, Bolt Fastened, Rechargeable	MK Battery	ES17-12	1	www.mkbattery.com	
Robot Signal Light (i.e. Panel Signal Device)	Rockwell Automation	855PB- B12ME522	1	No Specific Source	© ASI S
Cardboard VR Viewer (colors vary)	Siemens	cardboardvr	1	Not Available	San





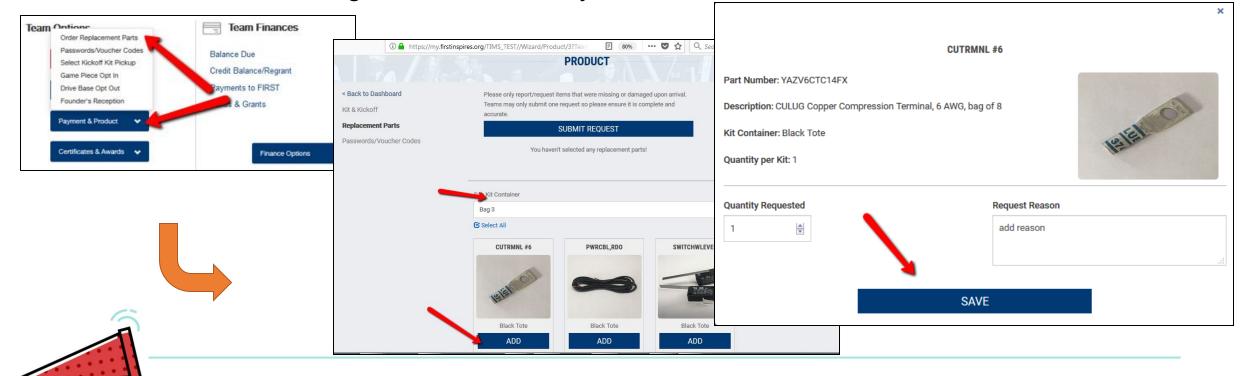
Kickoff Kit – Uh Oh...



We want to know if something's missing/damage!

*screenshots from 2018 season

Done in the team's registration account by Lead Coach/Mentor 1 or 2.









Items available via an online menu in exchange for credits issued to all teams...

- Online at: <u>www.firstchoicebyandymark.com</u>
- AndyMark creates an account for each team
- Passwords in the team's registration account
 - Registered teams can create priority lists
 - Processed/orders only ship to secured teams
- Every team is issued the same number of credits
- Non-transferable, worth no actual dollars.
- Teams are responsible for shipping, duties, taxes





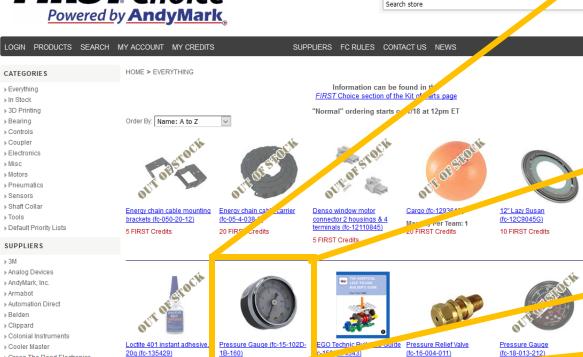


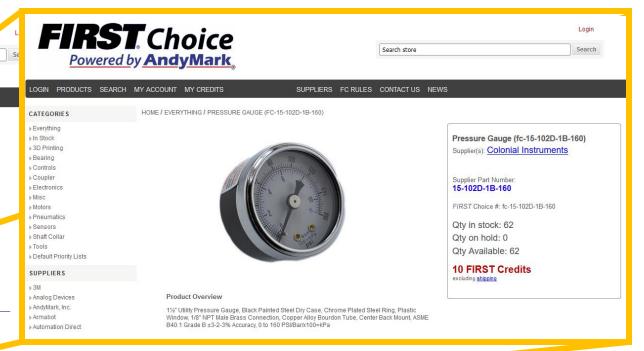
www.firstchoicebyandymark.com

FIRST Choice Powered by **AndyMark**

▶ Cross The Road Electronics

▶ CUI Inc. ▶ Cypress ▶ Denso







10 FIRST Credits





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- Priority Lists
 - At their leisure, but within a window, team populates their list
 - Option to use a default list and build from there.
 - Recommended that teams put items more on their list then credits they have
 - At a specific date/time, lists are locked and auto submitted
 - AndyMark uses an algorithm to process lists, assigning items to teams
 - Unused credits rollover between states, but not between seasons
 - Team receives an email with their loot and AndyMark starts shipping.







- There are 3 states of FIRST Choice
 - Open for Priority Lists (Two Rounds)
 - Round 1 is before Kickoff
 - Round 2 opens at Kickoff
 - Credits are added to every team between rounds
 - Open for Normal Ordering (After Round Two)
 - First come, first serve
 - Like a normal website, but with credits instead of dollars
 - Add what you want to your cart, check out when done (there is a 10 min timeout feature)
 - Closed
 - Before the season
 - Between states
 - After the season





Virtual Kit



Products available directly from the Supplier either via download or direct order...

2 Flavors

- Vouchers
 - Variety of ways (\$\$, parts, set menu of items, etc.)
 - Expiration dates vary!
- Software
- Any codes, license keys needed are available to Lead Mentor/Coach 1 or 2 in their team's registration account.

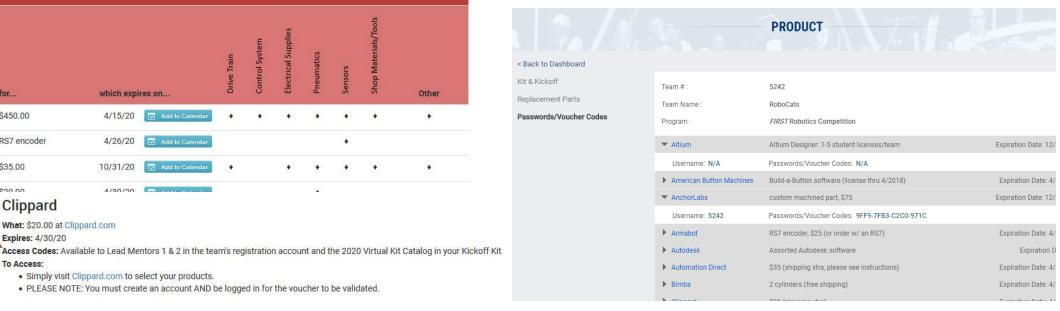




Virtual Kit



What's private...





What: \$50.00 of components from Digi-Key's webpage

Simply visit Clippard.com to select your products.

. Good for a one time use. Any amount not utilized in your initial transaction will be forfeited.

• PLEASE NOTE: You must create an account AND be logged in for the voucher to be validated.

· Taxes not included.









Feedback

- From teams
 - At events
 - Survey
 - 688 Responses
- From Community
 - Strategy Session
- From you... Email: frcparts@firstinspires.org





Resources

- KOP Webpage:
 - Programs > FIRST Robotics Competition > Game & Season > Kit of Parts
 - https://www.firstinspires.org/robotics/frc/kit-of-parts
- Screensteps: <u>https://wpilib.screenstepslive.com/s/currentCS/m/kop</u>
- FIRST Choice
- Https://firstchoicebyandymark.com







BE A GAME CHANGER

Thank you and have great

