

FIRST in Michigan Middle School FTC 2015-2016 Season

PART I: Team Equipment Recommendations

FIRST in Michigan FTC recommended Kit of Parts (KoP) product choices are highlighted as follows:

BLUE=All Teams | **GREEN=Rookie Teams** | **YELLOW=Veteran Teams**

These choices maximize the use of available grant funds. Teams may choose other options.

Parts are purchased through the FIRST FTC Storefront accessible to the Purchaser or via the

Resources: [TIMS User Guide](#); [FIRST FTC Storefront Ordering Instructions](#)

****Note that the FTC Storefront opens in a separate tab from the Team Summary page on TIMS, pop ups must be enabled in order for this to occur.**

1. 2015-2016 ANNUAL FIRST FTC REGISTRATION FEE

ALL TEAMS	FIRST FTC Registration Fee	\$275
<ul style="list-style-type: none"> The FIRST FTC Technology grant for \$275 offsets this fee for all rookie/veteran teams that qualify. This grant additionally provides a \$300 parts grant to rookie FTC teams. This is a needs-based grant with limited availability. Please state the team's/school's/city's financial challenges clearly in the application. Teams wishing to apply for this grant MUST: <ul style="list-style-type: none"> Apply for this grant before ordering/paying through the Storefront. Receive grant approval from FIRST FTC (national) See this grant as available on the TIMS "Team Summary" page under the "Payment" section PRIOR to entering the Storefront. 		

2. CONTROL SETS (Pick One of the Four Options)

Teams may opt for Sets which include the 2 ZTE Speed phones & protective covers. Note that the cost savings to teams in purchasing the phone/covers from external vendors is approx. \$150 (see Step 5).

Set 1 Options - No Gamepads; Support Set does NOT include phones/covers

Control & Communication Set 1	\$268	Control Support Set 1 VETERAN TEAMS	\$10
2 ZTE Speed Phone		0 ZTE Speed Phone	
2 Protective Covers		0 Protective Covers	
1 USB Non Powered Hub		1 USB Non Powered Hub	
1 Micro to USB OTG Cable		1 Micro to USB OTG Cable	
1 Rockwell Collins Engineering Notebook		1 Rockwell Collins Engineering Notebook	

Set 2 Options - Includes Gamepads; Support Set does NOT include phones/covers

Control & Communication Set 2	\$302	Control Support Set 2 ROOKIE TEAMS	\$44
2 ZTE Speed Phone		0 ZTE Speed Phone	
2 Protective Covers		0 Protective Covers	
1 USB Non Powered Hub		1 USB Non Powered Hub	
1 Micro to USB OTG Cable		1 Micro to USB OTG Cable	
2 Logitech Gamepad F310		2 Logitech Gamepad F310	
1 Rockwell Collins Engineering Notebook		1 Rockwell Collins Engineering Notebook	

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PART I: Team Equipment Options (cont.)

3. ELECTRONICS SET (Pick One of the Two Options)

<p>Note: 2015 FTC Rules will limit full use of the Sensor Set, but next season will most likely allow more extensive use. ALL teams are urged to purchase the one with the Sensor Kit as our Grants will cover it this year only.</p>					
Electronic Module Base Set		\$127	Electronic Modules & Sensor Kit ALL TEAMS		\$391
1	Legacy Module		1	Legacy Module	
1	Power Module		1	Power Module	
1	Phone to Power Module Cable		1	Phone to Power Module Cable	
1	USB Cables		3	12V Power Cable	
			2	DC Motor Controller	
			1	Servo Motor Controller	
			1	Advanced Sensor Module	
			1	IR Sensor (Seeker V3)	
			1	Reflected Light Sensor (EOPD)	
			1	Analog Touch Sensor	

4. COMPETITION SET - TETRIX is recommended for MI FTC Teams, do not order MATRIX

1	TETRIX FTC Competition Set (FiM FTC supported kit) - ROOKIE TEAMS	\$577
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5. EQUIPMENT PURCHASES OUTSIDE OF FIRST FTC STOREFRONT

<p>Teams may opt for Control & Communication Sets 1 or 2 which include the 2-ZTE Speed phones & protective covers. The cost savings to teams in purchasing these products outside of the FTC Storefront is approx. \$150.</p>				
ALL TEAMS		ZTE Speed Phones (2) and Protective Covers (2)		
2	ZTE Speed Phones	<p>Specifications MUST include:</p> <ul style="list-style-type: none"> • Android 4.4 - Kit Kat **ONLY VERSION SUPPORTED CURRENTLY • Snapdragon Processor • Wi-Fi Direct • USB OTG (On-The-Go) 	Best Buy	\$85
2	Protective Covers	For 2 ZTE Speed Phones	Amazon	\$15

***Teams should retain receipts for all equipment related expenditures. They will be needed as proof of purchase for reimbursement-style grants. These expenditures can also fulfill the matching funds requirement for the MDE grants.*

THIS COMPLETES THE KIT OF PARTS ORDER

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PART II: Season Costs and Proposed Grants

ROOKIE TEAMS

Rookie Teams: Cost Breakdown Before Team Grants			
Organizations that are tax exempt should have this information on hand at the time of order. Prices do not include taxes/shipping.			
EQUIPMENT	SOURCE	COST	
Control Support Set 2	FIRST FTC Storefront	\$44	
Electronics Module & Sensor Kit	FIRST FTC Storefront	\$391	
TETRIX FTC Competition Kit	FIRST FTC Storefront	\$577	
ZTE Speed Phones (2)	Purchased from external vendor such as Best Buy	\$85	
Protective Covers (2)	Purchased from external vendor such as Amazon	\$15	
TOTAL EQUIPMENT COSTS			\$1,112
2015 FTC Registration Fee	FIRST FTC Storefront		\$275
Event Fee	Mandatory participation in at least one (1) FIRST in Michigan FTC sanctioned event in the 2015-2016 season. Payable at event.		\$75
ESTIMATED COSTS BEFORE GRANTS			\$1,462
Optional Costs: Varies by team (<i>estimated</i>)			
<ul style="list-style-type: none"> ● Extra parts, tools, game elements ● Food and entertainment ● Travel to events ● Team shirts/buttons/pit decor 			\$100 - \$700 \$0 - \$200 \$0 - \$300 \$100 - \$400

Rookie Teams: 2015-2016 Rookie Team Grants			
GRANTOR	DESCRIPTION	AMOUNT	PAYOUT
<i>FIRST</i> FTC <i>*Limited</i>	Technology Grant: 2015-16 Registration Fee Waiver	\$275	Directly applied at Storefront
	Technology Grant: Parts Grant	\$300	
<i>FIRST</i> in Michigan	Rookie Team Kit of Parts Grant <i>*\$500-GM, \$400-Consumers Energy, \$100 Ford Motor. Co.</i>	\$1,000	Reimbursement
State of MI	1. State of Michigan <i>FIRST</i> Robotics MDE Grant: Team grant	\$300	State Aid payment
	2. State of Michigan <i>FIRST</i> Robotics MDE Grant: Coach stipend <i>*Publicly funded or charter schools</i>	\$1,500	
TOTAL POSSIBLE GRANTS			1,575 - \$3,675

** Proof of purchase is a requirement of FiM grant award. Grant reimbursement award amount could be adjusted based on the team's submitted proof of purchase confirmation/receipt.*

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PART II: Season Costs and Proposed Grants (cont.)

VETERAN TEAMS

Veteran Teams: Cost Breakdown Before Team Grants			
Organizations that are tax exempt should have this information on hand at the time of order. Prices do not include taxes/shipping.			
EQUIPMENT	SOURCE	COST	
Control Support Set 1	FIRST FTC Storefront	\$10	
Electronics Module & Sensor Kit	FIRST FTC Storefront <i>*This kit is the FiM FTC recommendation</i>	\$391	
ZTE Speed Phones (2)	Purchased from external vendor such as Best Buy	\$85	
Protective Covers (2)	Purchased from external vendor such as Amazon	\$15	
TOTAL EQUIPMENT COSTS			\$501
2015 FTC Registration Fee	FIRST FTC Storefront		\$275
Event Fee	Mandatory participation in at least one (1) FIRST in Michigan FTC sanctioned event in the 2015-2016 season. Payable at event.		\$75
ESTIMATED COSTS BEFORE GRANTS			\$851
Optional Costs: Varies by team (<i>estimated</i>)			
<ul style="list-style-type: none"> • Extra parts, tools, game elements • Food and entertainment • Travel to events • Team shirts/buttons/pit decor 			\$100 - \$700 \$0 - \$200 \$0 - \$300 \$100 - \$400

2015-2016 Veteran Team Grants			
GRANTOR	DESCRIPTION	AMOUNT	PAYOUT
FIRST FTC	Technology Grant: 2015-16 Registration Fee Waiver <i>*Limited</i>	\$275	Directly applied at Storefront
FIRST in Michigan	Electronics Set Support Grant <i>*\$200-Consumers Energy, \$100 Ford Motor Co., \$100 DTE Energy</i>	\$400	Reimbursement
State of MI	1. State of Michigan FIRST Robotics MDE Grant: Team grant 2. State of Michigan FIRST Robotics MDE Grant: Coach stipend <i>*Publicly funded or charter schools</i>	\$300 \$1,500	State Aid payment
TOTAL POSSIBLE GRANTS			\$400 - \$2,775

** Proof of purchase is a requirement of FiM grant award. Grant reimbursement award amount could be adjusted lower based on the team's submitted proof of purchase confirmation/receipt.*

PART III: FIRST in Michigan Team Grant Application Procedures

[2015-2016 FIRST in Michigan FTC Grants and Application Procedures](#) (includes link to grant form)

Refer to the [FIRST in Michigan 2015-2016 Grant Flyer](#) for available grants across all programs.