

Q: In the case of the blue box for R12, the ADIS16448 sensor is explicitly listed as a legal sensor that falls under the maximum cost list but there is no published fair market value listed for that sensor. If, in the 2020 season, we wish to use an ADIS16448 on our robot, how do we account for the cost of this sensor on our Bill of Materials?

A: The ADIS16448 is an IMU and can be accounted at \$0 per the exemption in !R11-C-i.

(Asked by 900 at Dec 3rd 19)

Q77 Q76 Clarification

Q: As further clarification for your answer to Q76, the implication is that if a team were to use multiple ADIS16448 sensors, they would be in violation of R11-C -i, which states that only "one (1)" IMU may be exempted. Is this correct? Or would all ADIS16448 used on a robot have an exempt cost of \$0?

A: Yes, using multiple ADIS16448 MXP Breakouts on the ROBOT is not possible because there is no available Fair Market Value to account for them.

(Asked by 900 at Dec 4th 19)

Q78 Team Captain

Q: Per Rule 4 in the Stop Build Day rules, can you clarify who should sign the attestation form in the event that a team captain or team mentor is not available at the time of inspection? What should be done for a team that does not have an official team captain? Is team captain a recognized position that all teams should have?

A: It is up to each individual team to choose how they designate their Team Captain(s) for the purposes of signing the Inspection form. The form requires the signature of both a Team Mentor and Team Captain and extreme circumstances where the appropriate individuals are not available will be handled on a case-by-case basis by the LRI, with assistance from *FIRST* HQ if necessary.

(Asked by 900 at Dec 4th 19)

Q79 Individual Part Costs Greater than Kit Costs

Q: In the blue box for R11, a summary is provided that says that a team must use the cost of a Kit and not its component pieces. If a vendor is out of stock on a kit but is selling individual items that each have a cost greater than \$500 though the kit itself is normally sold for less than \$500, would these parts be legal for a team to use?

A: !R11 contains no such summary, it appears you are referring to !R12. The referenced text in the !R12 Blue Box indicates that the cost of a system/kit must be used if the items are "designed to assemble into a single configuration, and the assembly is functional in only that configuration". In the presented scenario, either the Team already has the rest of the kit from a previous time when it was an available COTS item, which they can use (including any replacement parts purchased, regardless of their cost) and cost at the original cost of the kit, or the individual items of the kit are usable without the complete kit in which case the !R12 Blue Box text does not apply.

(Asked by 900 at Dec 4th 19)

Q80 Un-Depreciated Cost

Q: Please clarify what is meant by "un-depreciated cost" in the blue box for R11. How is the "un-depreciated cost" to be evaluated as compared to a "depreciated cost" given that no depreciation schedule has been provided to

teams?

A: The un-depreciated cost of an item is the cost original cost with no depreciation applied (i.e. as if it were brand new). No depreciation schedule is needed to determine an un-depreciated cost.

(Asked by **900** at Dec 4th 19)

Q81 Rookie Wildlist

Q: We are a Rookie Team from Turkey, #8079. There are only two Regionals in Turkey, 30 Rookie Teams per regional. Compared to other international Regionals this high attendance give very less chance for a Rookie to attend to World Championship. We have so much willing and effort to experience the Championship. Under these conditions our expectation is to support Rookies to benefit the Wildcard or enable more than one Rookie All Star Award in these Regionals to be fairer. What do you think?

A: This question is not related to the pre-kickoff rules release and seems to be a suggestion rather than a rules-related question we would answer in this Q&A. Please send suggestions like this in an email to FIRSTRoboticsCompetition@firstinspires.org.

(Asked by **8079** at Dec 4th 19)

Q82 Pre-Kickoff rules and Blue Boxes

Q: In past years, there has been a rule which states that language in blue boxes does not carry the same weight as the actual rule. Since blue boxes are present and seem to be working in addition to many of the rules, providing definitions and additions that aren't in the preceding rules with these pre-releases, do blue boxes now carry the same weight as the actual rules that precede them and what should take precedence in the event of a conflict? It is possible this rule is just not available yet.

A: Please read the manual in its entirety after kickoff. If you still have questions afterward about the interpretation of blue boxes in general, or about the blue box of a specific rule, please resubmit.

(Asked by **900** at Dec 5th 19)

Q83 Preparation to display a Bill of Material?

Q: Per the Blue Box for R11, the language says that "teams must be prepared to display a Bill of Material (BOM) to Inspectors during Inspection". Is it optional for an inspector to request the bill of materials be displayed? Is it sufficient for teams to only "be prepared" to display it? The text references rule Ixx, which is not available yet so it is possible this is answered in that rule.

A: Please read the manual in its entirety after kickoff. If you still have this question, please resubmit.

(Asked by **900** at Dec 5th 19)

Q84 Thank you and Happy Holidays!

Q: Team A wishes to thank the anonymous FIRST staff members answering the Q&A but lacks any method to get in touch with them and express their gratitude directly. Would Team A using the Q&A system to thank those staff members for releasing portions of the manual early as well as generously taking their time to answer all of Team A's questions and wish those staff members to have a wonderful and peaceful holiday season constitute an

acceptable use of the Q&A system?

A: We are appreciative of our community's patience and thoughtfulness. And we are SO excited for Kickoff! Less than a month left!!!

(Asked by **900** at Dec 5th 19)