



## Team Update 17

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### General Notes

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- **Drawing Update.** Please note, there are three types of points that will be used on LIFTS at 2017 events, *GE-17064 Peg, Point (black ABS)*, *GE-17064 Peg, Point, Rev A (white HDPE)*, and *GE-17064 Peg, Point, Rev B (clear Polycarbonate)*

### Section 3.5 LIFTS

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It is constructed from 7/8-in. (nominal) diameter extension spring (McMaster P/N: 9664K68 or Century Spring P/N: E-41).

### Section 3.7 DAVIT

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These fingers are 1 1/4 in. (~3 cm) apart and have a hole for a wire locking retaining pin (McMaster P/N: 98416A009 or similar).

### Section 7.5 GAME PIECE Interaction

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#### G15

GAME PIECES are expected to undergo a reasonable amount of wear and tear as they are handled by ROBOTS, such as scratching or marking. Gouging, tearing off pieces, or routinely marking GAME PIECES are violations of this rule. Humans causing GAME PIECE wear and tear, e.g. flattening FUEL, are subject to a CARD per Section 10.7 YELLOW and RED CARDS.

A ROBOT that has only unseated the TOUCHPAD dome has not damaged the FIELD.

GEARS placed in a BOILER will damage the BOILER internal elements and such an action is considered an egregious violation of G15.

### Section 8.8 Control, Command & Signals System

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*We have received reports of issues connecting to devices plugged into the “802.3af” port (further from the power connector) on OM5P-AC radios, which are often resolved by power cycling the radio. We are looking in to the issue but currently have no estimated timetable for a fix. We have relaxed R63, as shown below, to allow teams to connect the roboRIO through a switch to the 18-24V POE port. The OM5P-AN radio should not be affected by this issue.*

- R63** The roboRIO Ethernet port must be connected to the Wireless Bridge port labeled “18-24V POE,” closest to the power connector (either directly, via a switch, or via a CAT5 Ethernet pigtail).

Note: Placing a switch between the roboRIO and radio may impede the ability for FIELD STAFF to troubleshoot roboRIO connection issues on the FIELD. Teams may be asked to try directly connecting from the radio to roboRIO as part of troubleshooting efforts.



## Section 9 Inspection & Eligibility Rules

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### I04, part E

To interface with the field a ROPE must have a retaining feature (e.g. a knot) greater than 1 in. (~25.4 mm) in diameter to interface with the DAVITS (RF).

The DAVIT's retaining pins are not designed to hold the weight of a ROBOT and therefore attachment to them would not be considered engaging "securely with the FIELD" per I04-D.