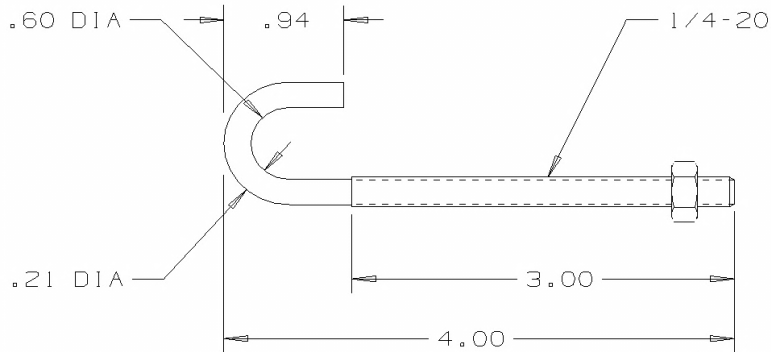


**Science Olympiad**  
**2014 Boomilever**  
**J-Bolt Specifications**



Boomilever rule 4.b.ii	Mounting hook(s) shall be 4" steel J-bolts made of 1/4" nominal round stock, have a 5/8" nominal inside hook diameter with a threaded 1/4" mounting end. National Hardware bar code stock number N232-892 (UPC 038613228917), 1/4" by 4" or exact equivalent shall be used.
Manufacturer	National Hardware (may also be sold under the "Stanley" or "Stanley National" name but the UPC number remains the same.
UPC	038613228917
BC Stock Number	N232-892
Description	J Bolts w/ Hex Nut
Part Number	2195D4.J2
Material / Finish	Steel / Zinc plated
Size	1/4" x 4"
Cost	under \$1 per bolt with 1 nut
Found at	Menards, Lowes,
Found on-line	Amazon, SimSupply, Hardware World and many more
Not found at	Ace, Farm & Fleet,
National Catalog	2195
National Stock Numbers	N246-793 or N232-892 (based on the way the J-Bolts are sold to the store from National, packs of 50 or packs of 10)
Web link	N246-793: <a href="http://www.natman.com/prodinfo_itemdetail.asp?cat=4&amp;sub=20&amp;prod=233&amp;catalog=671&amp;item=2962">http://www.natman.com/prodinfo_itemdetail.asp?cat=4&amp;sub=20&amp;prod=233&amp;catalog=671&amp;item=2962</a> N232-892: <a href="http://www.natman.com/prodinfo_itemdetail.asp?cat=4&amp;sub=20&amp;prod=233&amp;catalog=671&amp;item=2961">http://www.natman.com/prodinfo_itemdetail.asp?cat=4&amp;sub=20&amp;prod=233&amp;catalog=671&amp;item=2961</a>