

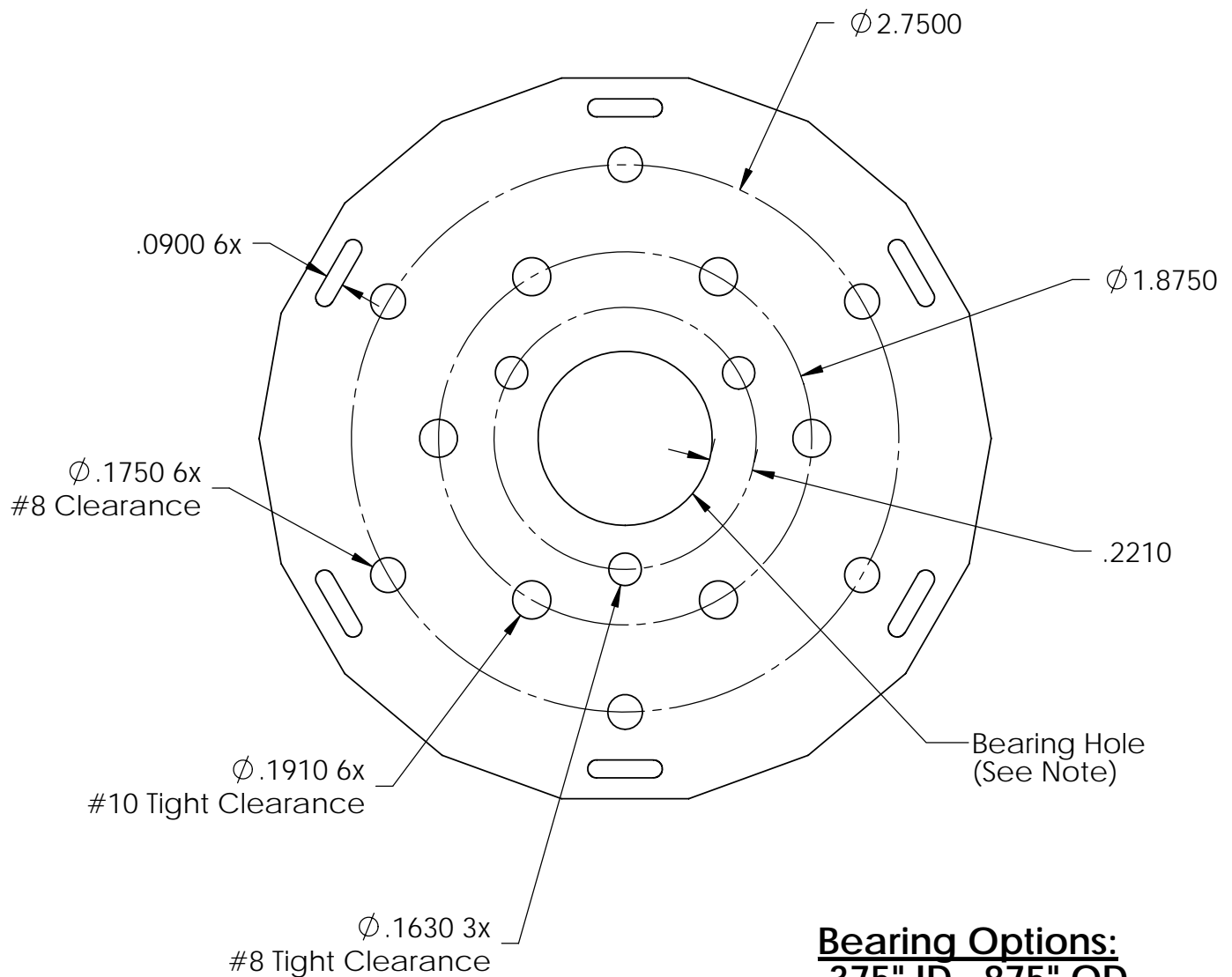
Printed on 11/20/2006 ALL DIMENSIONS ARE IN INCHES.

Innovation First, Inc.

4" High-Traction Wheel

Part Number  
IFI-WHEEL-ASSY-4

For more details refer to 3D Wheel CAD Models (.stp) at [www.ifirobotics.com](http://www.ifirobotics.com)



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4" Wheel Hub

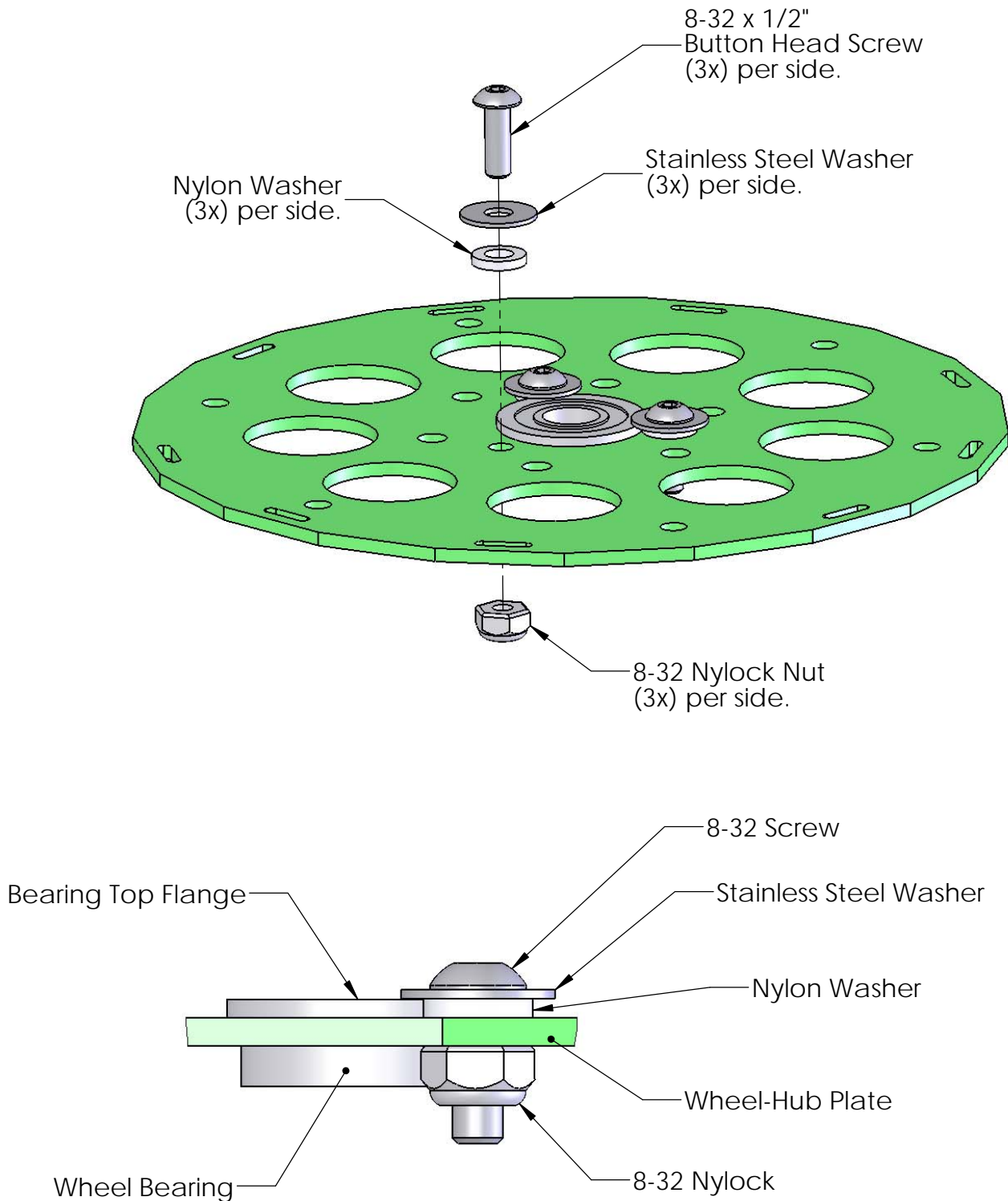
Part Number

IFI-WHEEL-ASSY-4

**Step 1** - Insert Bearings into Center-Hole of Wheel-Hub, until bearing flange is flush.

**Step 2** - Attach Bearing Retainer Screws/Washers as shown below. (3x) per Hub

**Step 3** - Repeat for both Wheel-Hubs



All Wheel Variations are similarly Assembled.  
For reference, 6" x 1" Wheel is shown.

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Wheel Assembly

Part Number

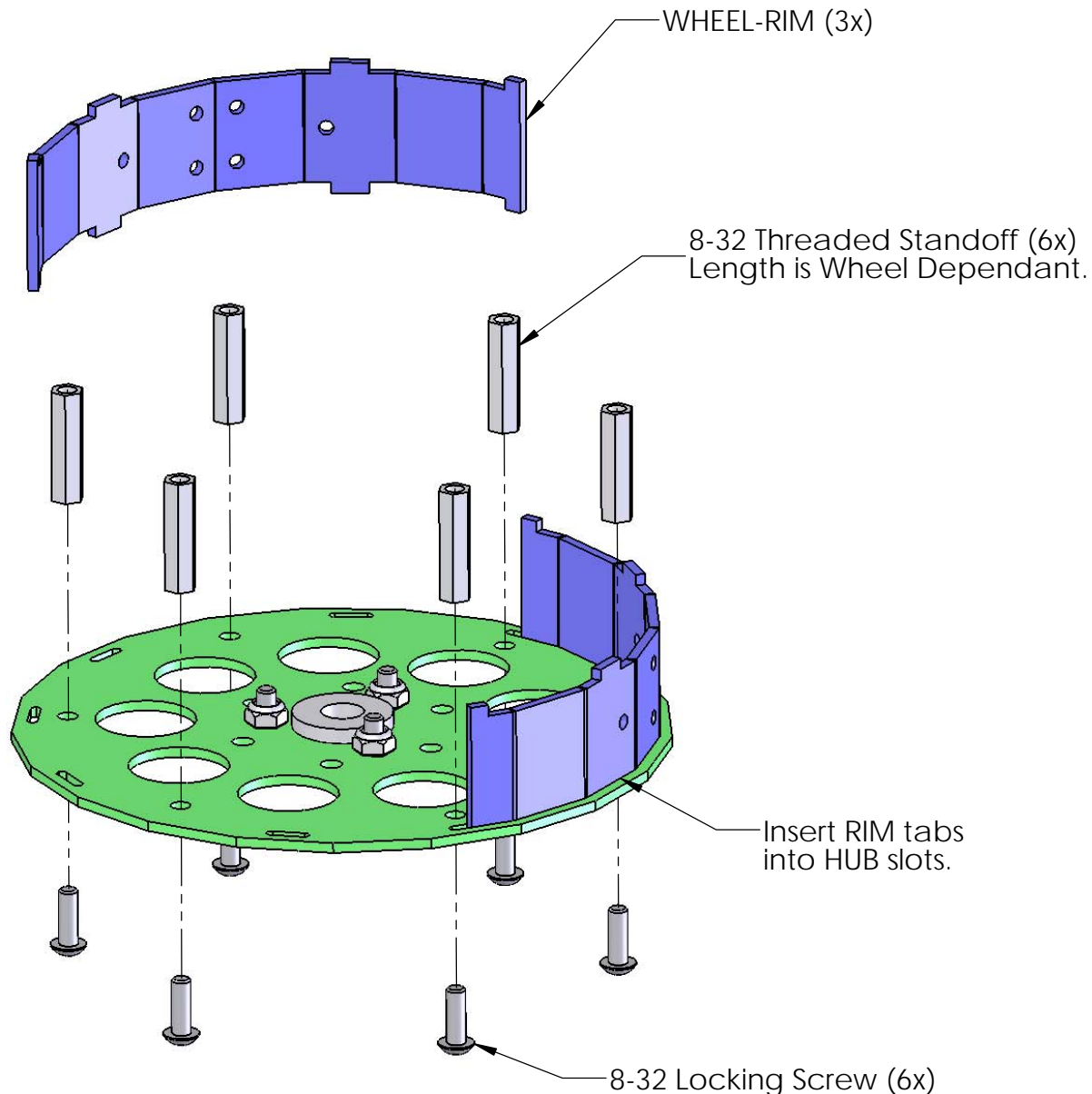
WHEEL-ASSY-INST

**Step 4** - Take one of the plates from Step 3 and attach (6) 8-32 Threaded Standoffs using 8-32 x 1/2" Long Locking Screws.  
(The ones with a dab of plastic/thread-locker on the threads.)

Note: For extra security, apply additional thread-locker to each screw/standoff.

**Step 5** - Insert the WHEEL-RIM pieces into the hub such that all RIM tabs are fully engaged in their respective HUB slots.

Note: Due to the high-tolerances required to create a rigid wheel, the RIM pieces may require some "forcing" to insert properly. It is acceptable to slightly bend the RIM such that it inserts into the WHEEL-HUB.



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For reference, 6" x 1" Wheel is shown.

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Wheel Assembly

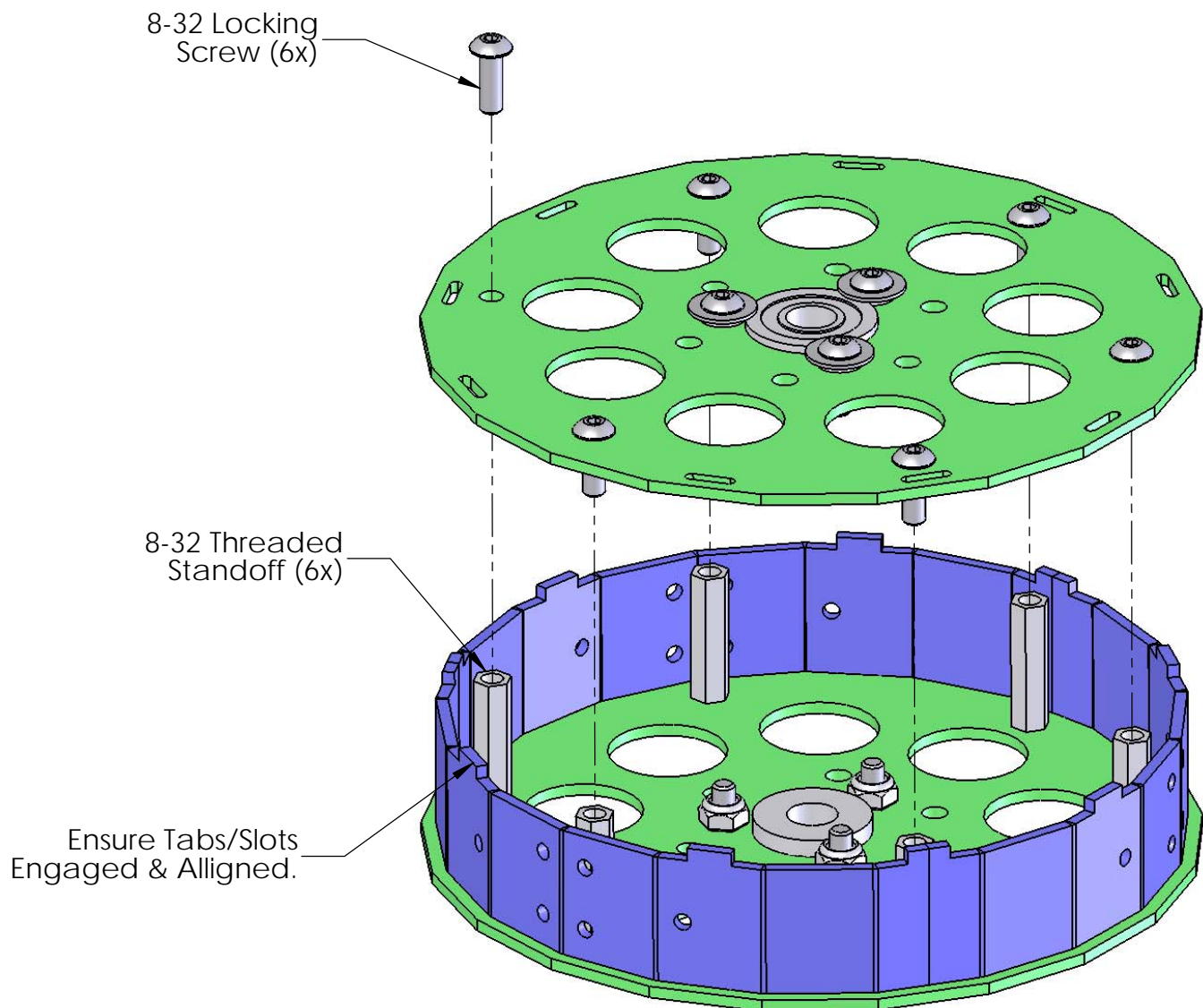
Part Number  
WHEEL-ASSY-INST

**Step 6** - Assembly the other Hub-Assembly from Step 3 to the Assembly from Step 5 ensure all tabs and slots are alligned and fully engaged.

Reminder: Attach any sprockets to the Wheel BEFORE it is fully assembled.

**Step 7** - Bolt the assembly together using (6) 8-32 Locking Screws.  
Add additional thread-locker for added security.

Refer to Tread Attachment Instructions for information on Wheel-Tread Attachment.



All Wheel Variations are similarly Assembled.  
For reference, 6" x 1" Wheel is shown.

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Wheel Assembly

Part Number  
WHEEL-ASSY-INST