

Attaching Tread:

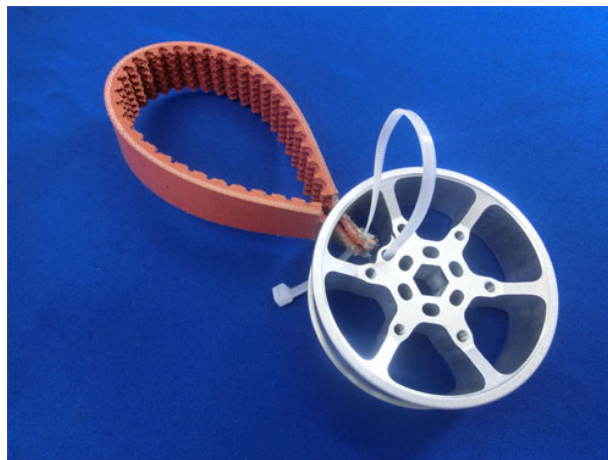
This method was designed and tested by three experienced FIRSTers, Aren Hill, Austin Schuh, and Adam Heard, during the 2012 FRC season.

In this design, the tread, wraps around the wheel, through a slot, and is secured with a zip-tie to an anchor point. The pictures below show tread being attached to a 4" Performance Wheel. 6" and 8" wheels follow the same steps. Here is the recommended method for installation:

1. Prepare tread: Cut tread to a length long enough to wrap around the wheel with a 1" overlap. Narrow each end of the tread about 3/16" on each side, leaving about 1/2" to 5/8" tab centered on the tread. This allows excess length of tread to fit through the slot and into the center of the wheel. To make assembly easier, it is also useful to sand down the tread on the narrowed ends. Make one hole on each end centered at minimum 0.25" away from the end of the tread to allow a cable tie to pass through.
2. Put both ends of the tread together with the rubber sides facing each other. Place a strong cable tie (am-1189 recommended) through the holes in the tread. Do not connect and close the cable tie yet!



3. Thread the cable tie and the ends of the tread through the slot on the performance wheel.



4. Flip the tread so the rubber side is facing outwards and wrap around wheel.



5. Secure the cable tie to the anchor point between the wheel spokes.

