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## Spiderless and Bolt-On Spider Cranksets

### Congratulations!

Thank you for purchasing a Truvativ Crankset. The following instructions should be read thoroughly before installation. Improper installation of your Truvativ Crankset may cause an unexpected failure of the parts that could cause you to lose control of your bicycle resulting in serious injury or death. We recommend having your parts installed by a qualified bicycle technician. Truvativ assumes no responsibility for malfunction or injury due to faulty installation.

### Application Chart

Part	Road	XC	AM	DH
Luftalarm, Holzfeller Urban				

Key: XC = Crosscountry AM = All-Mountain/BMX  
DH = Downhill/Dirt Jumping/Street Riding

### Bottom Bracket, Chaining, and Crankbolt Compatibility

Please see the compatibility chart below for recommended bottom bracket and chaining compatibility. For optimum performance, use only recommended arrangements of bottom brackets and chainings.

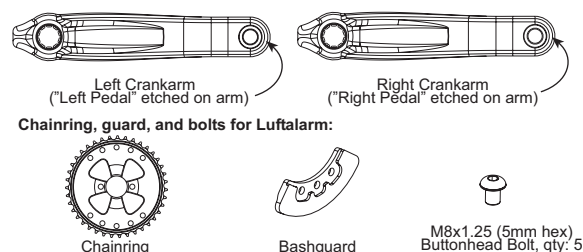
Crankarm Model	Interface	Spindle Width		Recommended Bottom Bracket Model	Chaining Compatibility
		113	118		
Luftalarm		42.5		Giga Pipe BMX, ISIS Overdrive DH and BMX	25, 30, 33, 36, and 39T
Holzfelder Urban Single	ISIS Drive		48.5	Giga Pipe DHLT and Team DH, ISIS Overdrive DH	34/Bash Guard 30/Bash Guard
Holzfelder Urban Double			48.5	Giga Pipe DHLT and Team DH, ISIS Overdrive DH	22/32/Rock Guard 26/36/Rock Guard

The Luftalarm and Holzfelder Urban crankset with single chainings will only accommodate Truvativ-specific chainings.

M15 and M12 crankbolts are compatible with any ISIS Drive certified bottom bracket with the corresponding sized threaded hole. M15 is typically used for crosscountry and road bike bottom brackets while M12 is typically used on downhill/freeride/BMX or titanium bottom brackets.

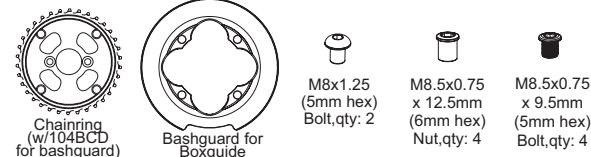
### Parts and Tools

#### Parts:

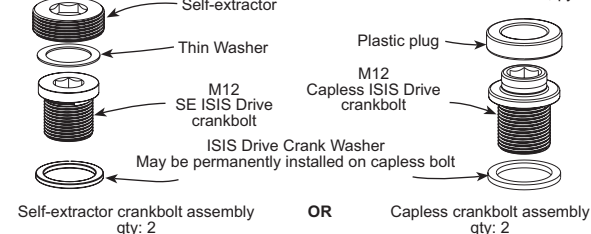
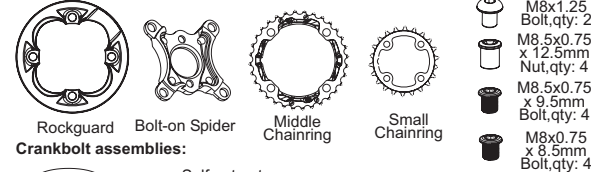


Rev 3 June 3, 2004

#### Chaining, guard, and bolts for Holzfeller Urban (single chaining):

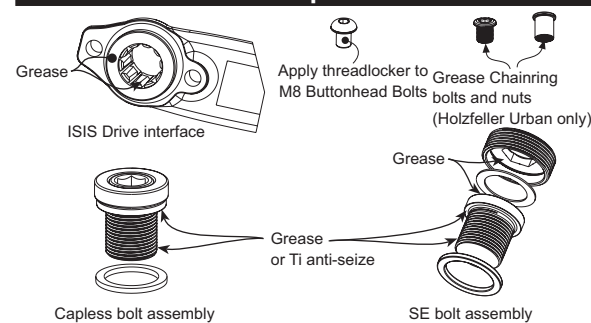


#### Chaining, guard, and bolts for Holzfeller Urban (double chaining):



- Tools:** •5mm, 6mm, 8mm hex key, 10mm hex key (for self extractor crankbolts, if applicable.)  
•Torque wrench
- Supplies:** •Grease  
•Medium strength threadlock compound (Loctite™ 242 or equivalent)

### Parts Preparation



### Assembly

#### Step 1 For Holzfelder Urban single chaining only

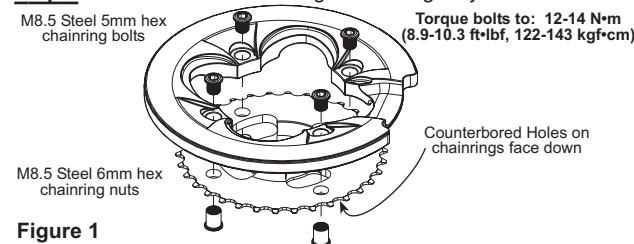


Figure 1

#### Step 1 (cont'd)

Assemble the bashguard and chaining as shown in Figure 1. Torque the bolts to 12-14 N-m (8.9-10.3 ft-lb, 122-143 kgf-cm). The bashguard MUST be assembled to the chaining before mounting to crankarm.

#### Step 2

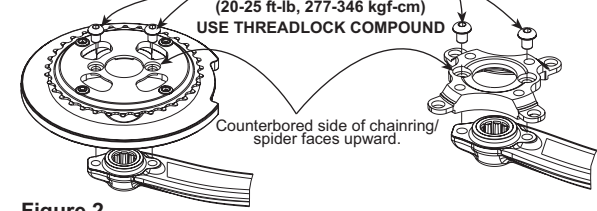


Figure 2

Assemble the chaining or spider and prepared M8 bolts as shown in Figure 2. Torque the bolts to 27-34 N-m (20-25 ft-lb, 277-346 kgf-cm). The chaining can be assembled on the left arm or right arm for right or left-hand drive applications.

#### Step 3 For Luftalarm only, optional

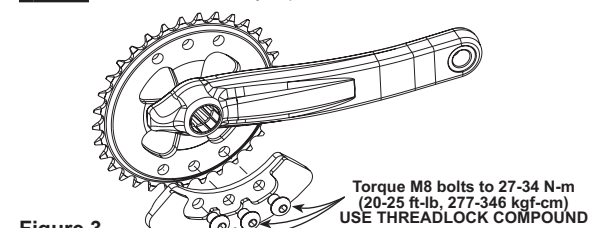


Figure 3

Using the prepared M8 bolts, assemble the bashguard to the Luftalarm as shown in Figure 3. Torque the bolts to 27-34 N-m (20-25 ft-lb, 277-346 kgf-cm).

#### Step 4 For Holzfelder Urban double chaining only

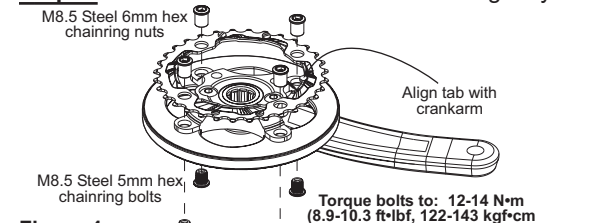


Figure 4

Assemble the rockguard and middle chaining to the crankarm spider as shown in Figure 4. Make sure the alignment tab is oriented in line with the crankarm. Torque the bolts to 12-14 N-m (8.9-10.3 ft-lb, 122-143 kgf-cm).

#### Step 5 For Holzfelder Urban double chaining only

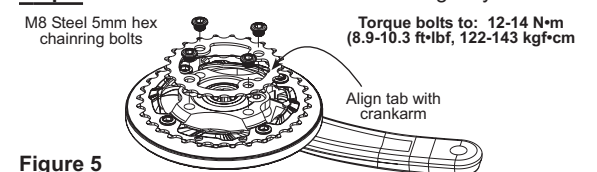


Figure 5

Mount the small chaining to the crankarm spider as shown in Figure 5. Make sure the alignment tab is oriented in line

#### Step 5 (cont'd)

with the crankarm. Torque the bolts to 12-14 N-m (8.9-10.3 ft-lb, 122-143 kgf-cm).

#### Step 6

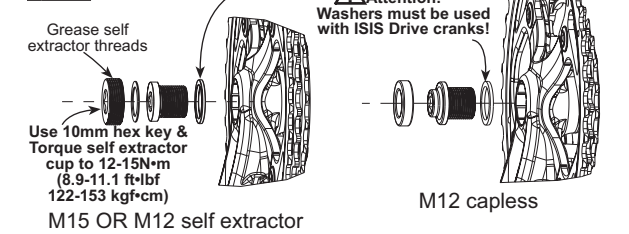


Figure 6

Assemble the crankbolts as shown in Figure 6. ISIS Drive cranks MUST use the crank washer or damage will result when the cranks are installed. Note that the crank washer may be manufactured so that it is permanently installed on the crankbolt.

#### Step 7

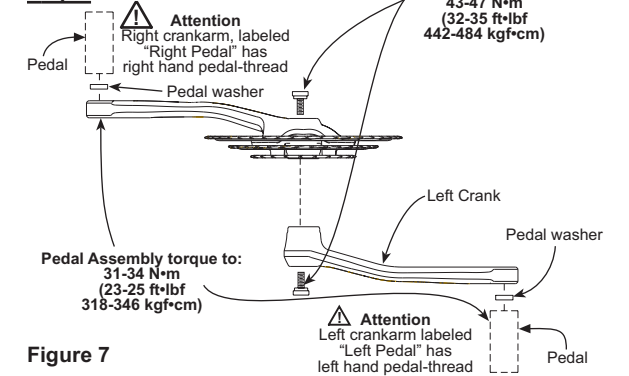


Figure 7

Apply grease to ISIS Drive bottom bracket splines. Assemble the crankarms to the bottom bracket using an 8mm hex wrench, apply grease to the pedal threads and assemble the pedals to the crankarms, and torque all bolts as shown in Figure 7. The assembly is now complete.

### Warranty

We at Truvativ stand behind our products and our customers. Our Luftalarm and Holzfelder Urban cranksets are warranted for two years from the date of purchase against manufacturing defects and workmanship. This warranty is not valid for "abused" or neglected products, or products that are damaged by improper installation or assembly. We define an abused product as one that was subjected to use outside of its design intent. Please pay special attention to the Application Chart shown earlier in this manual to verify you are using the product for its intended purpose.

If you feel you have a warranty claim, would like to learn more about our warranty policy, or have further questions or comments please visit our web site at [www.truvativ.com](http://www.truvativ.com). You may also contact us using the information below:

<b>Truvativ USA</b> Tel [1] (805) 787-0917 amsales@truvativ.com warranty@truvativ.com	<b>Truvativ Germany</b> Tel [49] 23 02 399-280 eusales@truvativ.com	<b>Truvativ Asia (Taiwan)</b> Tel [886] (42) 496 5899 taiwansales@truvativ.com
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