



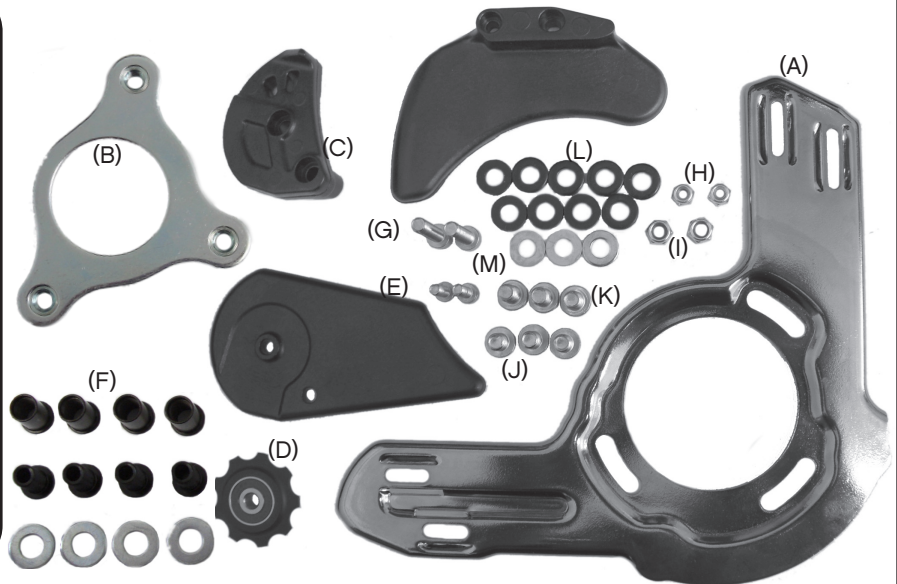
# e\*thirteen components

## 2008 SS/ST Chain Retention System

The following instructions are for the 2008 SS ISCG-OLD and ISCG-05. If in doubt about the correct installation of our SS/ST chain retention system please do not hesitate to contact us:  
[www.e13components.com/support.html](http://www.e13components.com/support.html) [support@e13components.com](mailto:support@e13components.com)

### Parts List:

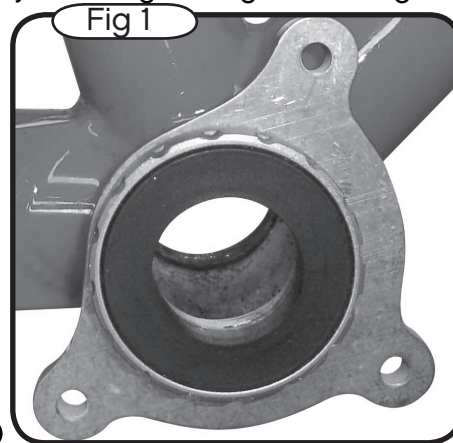
- A. (1) SS backplate
- B. (1) ISCG steel adapter plate (ISCG-05 only)
- C. (1) Parts tree (upper slider, lower slider, outer slider)
- D. (1) Tech 2 sealed bearing idler
- E. (2) M4 x 14 mm cap screw
- F. (4) Long chainring bolts/M8 washers
- G. (2) M5 x 25 mm cap screws
- H. (2) M4 nylon insert locking nuts
- I. (2) M5 nylon insert locking nuts
- J. (3) M6 x 8 mm button head cap screws
- K. (3) M6 x 12mm button head cap screws
- L. (9) M6 x 2.5 mm washers (black)
- M. (3) M6 x 1.25 mm washers (gold)
- N. (1) Supercharger bashguard (not shown)



Snug bolts to **0.9 Nm** to keep plastics from moving freely. Over tightening will damage the plastics!

1. Remove the crankset from your bike.  
 Check your drivetrain components to be sure everything is undamaged and straight. Bent parts hinder performance!

2. If you are using the ISCG-05 version of the guide, the kit includes the ISCG-05 steel adapter plate. This plate can be installed in place of a 2.5mm bottom bracket spacer. **(Fig 1)** This method is used for frames with no ISCG tabs.

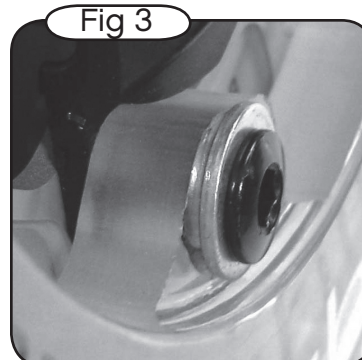


3. Remove the drive-side bottom bracket cup. Clear any grease from the BB cup threads. Apply grease to the threads inside your frame. Sandwich the ISCG steel adapter between the BB cup and the BB shell. **(Fig 2)** Typical BB spacer configurations with most 50mm chainline cranks (68/73mm) and 57.5mm cranks (83mm). Rotate the adapter plate so that the top tab is pointing in the 1 O'Clock position. Torque your BB cup to the recommended specification.

Fig 2

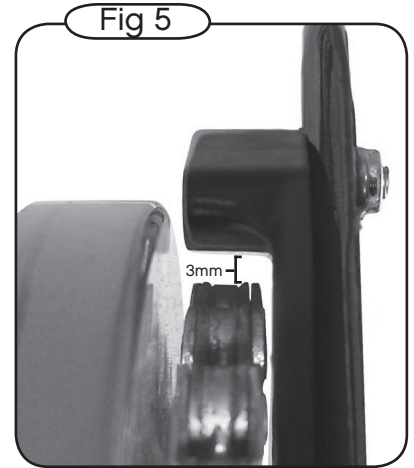
BB Shell Width	Typical Chainline	Left BB Cup	Right BB Cup
68mm	50mm	2.5mm spacer	ISCG-05 Adapter, 2.5mm spacer
73mm	50mm	no spacer	ISCG-05 Adapter only
83mm	57.5mm	no spacer	ISCG-05 Adapter only

4. Attach the Supercharger Bashguard and chainring to your cranks **(Fig 3)**. The M8 washers are critical to proper installation. Tighten Bashguard Bolts to **4.8 Nm**. DO NOT OVERTIGHTEN or use LOCKTITE on the chainring bolts.

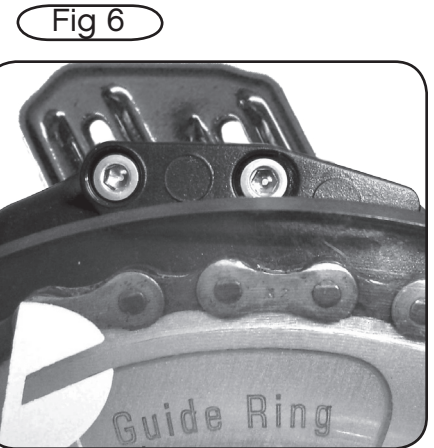


4. With the guide assembled, install using the ISCG M6 button head cap screws into either the tabs on your frame, or the ISCG-05 steel adapter plate. Snug but do not tighten yet. You may need to add spacers to get correct alignment for the chainring. Most external bearing type cranksets are designed around a 50mm chainline and only need 0-1 black 2.5mm spacers.

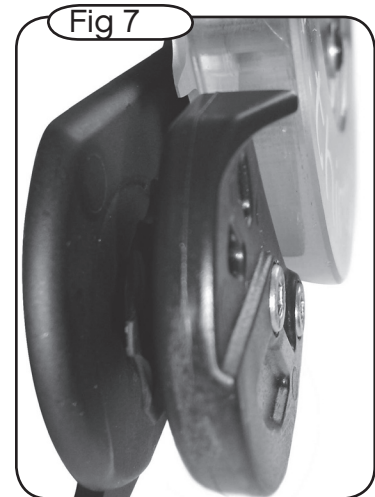
BB Shell Width	Chainline	Spindle Length (ISIS)	2.5mm Black Spacers Needed
68	47.5	113	-
68/73	50	113	-
68/73	52.5	118	1
68/73	55	123	2
68/73	57.5	128	3
83	57.5	128	1
83	60	133	2
100	63.5	140	0
100	65	145	1



5. Remount the cranks. The top slider should be lowered to 3mm from the top of the chain and 1mm from the edge of the bashguard (Fig 5) (Fig 6). The alignment ridge on the lower slider is designed to be flush with the outer edge of the bashguard (Fig 7). If it is not aligned, then add or remove spacers from behind the backplate until the ridge is aligned. It is possible to partially remove the button head cap screws and add or remove a spacer at a time. This method is easier than removing the entire crankset to modify spacing.



6. Rotate the guide so that the top slider is at the 12 O'Clock position over the bottom bracket and tighten the three button head cap screws to **6 Nm**. The final alignment of your SS chain guide (Fig 8). Do not torque sliders more than **0.9 Nm**.



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