

Inner chainring for Shimano 12 Speed crank. Before installation, check the compatibility table below.

*Cannot be mounted on Sugino crank.

Compatibility Table

CHAINWHEEL		REAR DERAILLEUR	
DURA-ACE FC-R9200	52T	CY4-SHC 12S — 36T	DURA-ACE RD-R9250
ULTEGRA FC-R8100		CY4-SHC 12S — 33T	CAPACITY BOOSTER 12S DA
105 FC-R7100	50T	CY4-SHC 12S — 34T	ULTEGRA RD-R8150
FC-RS520		CY4-SHC 12S — 32T	CAPACITY BOOSTER 12S UL/105
	50T	CY4-SHC 12S-RS520 — 32T	105 RD-R7150 RD-R7100
			(Pulleys for Shimano 12S)

*For inner 32T & 33T, CAPACITY BOOSTER 12S is required.

*34T and 36T, use either Shimano original pulleys or CAPACITY BOOSTER 12S.

*Use the specified tooth configuration with genuine Shimano outer chainring.

*Shimano parts and CAPACITY BOOSTER 12S are not included.



FC-RS520 which is 12 Speed crankset with equivalent features to FC-R7100 is not compatible with "CY4-SHC 12S". For FC-RS520, please use "CY4-SHC 12S-RS520".

Please fully observe the safety precautions as follow.

Incorrect installation may damage the parts and leads to serious accidents.

MAINTENANCE

- Before and after every ride, check all parts for play or looseness, and secure any loose parts and fasteners.
- Do regular routine checks on all parts.

WARNING

- Please use the appropriate tool for every installation. These parts are for use as specified for the bicycle indicated and shall not be used for other purposes. Inappropriate use may lead to serious accidents.
- Please do not alter these products, including changes in logos, surface treatment and so on, as it may cause serious accidents.
- Be sure to use detergents or chemicals described as "neutral" to clean the products. Acidic and alkaline agents will harm finished surfaces and can cause malfunction to the products.
- If you have questions regarding installation and handling, please contact a professional. Incorrect installation and setting may damage the parts and lead to serious accidents.
- Please read the handling manual carefully and keep it at hand.

SUGINO ENGINEERING CORPORATION

<https://www.suginoltd.co.jp/us/>

The specifications are subject to change without notice due to continuous improvements.



Installation

- ① Remove original inner chainring from the crank.
- ② Be sure to orient CY4-SHC correctly and set it on the crank.
 - ① Graphics should face outward. — [Fig.1]
 - ② Bump should be positioned behind the crank. — [Fig.2]
- ③ Use either of the following bolts, and tighten them firmly in the order as shown in [Fig.3].
 - A. Original bolts that were removed from your crank at Step ①
 - B. Sugino special bolt set 804 for SHIMANO (sold separately)



Tool
Torx wrench
(size : T30)

Tightening torque

6.9N·m (70kgf·cm)

*Before installation, lightly grease bolt threads and underside of bolt head where it contacts with chainring.

*Don't use thread locking agent. It can cause the bolt to break during installation and removal processes.

*Aluminum bolts may break by over-torquing. Torque specification should always be followed.

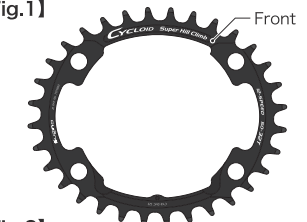
*After installing all the bolts, make sure that they are secure.

- ④ Adjust rear derailleur by referencing Shimano's manual and check the shifting.

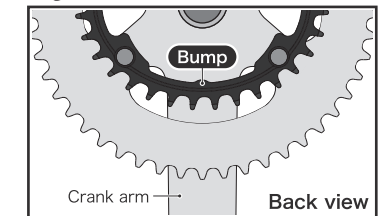
*Be sure to turn the cranks while operating shift lever.

*When chain runs at an angle as shown [Fig.4], it would rub the outer chainring or front derailleur and make noise. To fix it, downshift one or two on the rear.

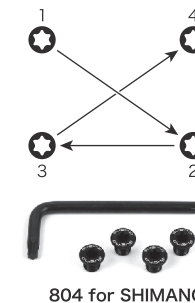
[Fig.1]



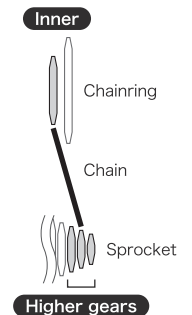
[Fig.2]



[Fig.3]



[Fig.4]



[Fig.5]



For RD-R9250, in the 3rd cog from the top.