## SI-1L70A-001-00 General Safety Information

# A WARNING

- · If the inner cover is not installed correctly, the axle may rust and become damaged, and the bicycle may fall over and serious injury may occur as a result
- Obtain and read the service instructions carefully prior to installing the parts. Loose, worn or damaged parts may cause the bicycle to fall over and serious injury may occur as a result. We strongly recommend only using genuine Shimano replacement parts.
- · Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

## Note

- · If the bottom bracket shell is not parallel, gear shifting performance will drop.
- · Before riding the bicycle, check that there is no play or looseness in the connection. Also, be sure to retighten the crank arms and pedals at periodic intervals
- · If you feel any looseness in the bearings, the bottom bracket should be replaced.
- · In addition, if pedaling performance does not feel normal, check this once more.
- · Do not wash the bottom bracket with high-pressure jets of water.
- . When installing the left and right adapters, be sure to install the inner cover too, otherwise the waterproofing performance will drop. Apply grease to the left and right adapters before installing them.
- · Be sure to read the service instructions for the front chainwheel in
- conjunction with these service instructions.
- · Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- · For maximum performance we highly recommend Shimano lubricants and maintenance products.
- · For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

### Chain Device

When installing a BB mount-type chain device to a bicycle, refer to the table below to determine the number of spacers for the right side. If the thickness of the spacers used is not as given in the table, the front chainwheel may become loose and fall off, or problems with gear shifting may occur. When installing a BB mount-



The example in the illustration shows a BB

mount-type chain de

type chain device or a ISCG-type chain device to a bicycle, you need to be careful to avoid interference.

### <Chain Device Thickness (BB mount)>

	Model number	Bottom bracket shell width			
	woder number	68 mm	73 mm	83 mm	
For chain device thickness of 2.5 mm	FC-M810-1 FC-M665 FC-M810-2	2.5 mm x 1	Not needed		
	FC-M815-1 FC-M815-2			2.5 mm x 1	
		Bottom bracket shell width			
		Detter		L	
	Model number	Bottor	n bracket shel	l width	
	Model number	Bottor 68 mm	n bracket shel 73 mm	I width 83 mm	
For chain device thickness of 5.0 mm	Model number FC-M810-1 FC-M665 FC-M810-2				

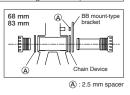
### When using in combination with the FD-M665-E (2.5 mm chain device)

Model number	Bottom bracket shell width		
woder number	68 mm	73 mm	83 mm
FC-M665 FC-M810-2	Not needed	No available	
FC-M815-2			Not needed

#### <Installation method>

Install the chain device and the front derailleur as shown in the illustration. · If using in combination with an BB mount-

type front derailleur, make sure that the chain device does not obstruct the BB mount-type bracket.



## Technical Service Instructions

**SM-BB80** 

## SI-1L70A-001



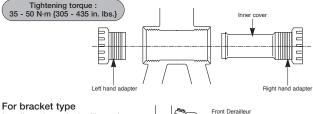
## **Specifications**

### Bottom Bracket

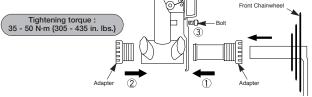
Model number	SM-I	SM-BB80		
Applicable front chainwheel	FC-M815	FC-M810		
Bottom bracket shell width	83 mm	68, 73 mm		
Thread dimensions	1.37 X	1.37 X 24 T.P.I.		

# Installation of the adapter

Use the TL-FC32/36 special tool to install the right adapter (counterclockwise thread), the inner cover and the left adapter (clockwise thread).



Install as shown in the illustration.

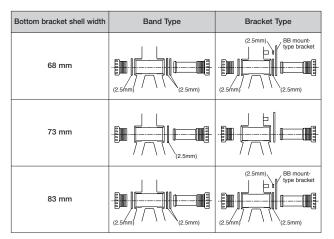


## Spacer installation method

(1) Check whether the width of the bottom bracket shell is 68 mm, 73 mm or 83 mm.



(2) Next, install the adapter while referring to the illustrations below.



# SHIMANO

SHIMANO AMERICAN CORPORATION One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003 SHIMANO EUROPE B.V.

# SHIMANO INC. 3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

ndustrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222 Please note: specifications are subject to change for improvement without notice. (English) © Sep. 2008 by Shimano Inc. XBC SZK Printed in Japan.