

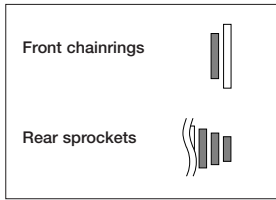
## General Safety Information

### ⚠ WARNING

- Obtain, read and carefully service instructions when installing parts. A loose, worn, or damaged parts may cause injury to the rider. We strongly recommend that only genuine Shimano replacement parts be used.
- Be careful not to let the cuffs of your clothes get caught in the chain while riding, otherwise you may fall off the bicycle.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

### Note

- If gear shifting operations cannot be carried out smoothly, clean the derailleur and lubricate all moving parts.
- If the amount of looseness in the links is so great that adjustment is not possible, you should replace the derailleur.
- When the chain is in the position shown in the illustration, the chain may contact the front chainrings or front derailleur and generate noise. If the noise is a problem, shift the chain onto the next-larger rear sprocket or the one after.
- For smooth operation, always be sure to use the specified outer casing and the bottom bracket cable guide.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- 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.



## Technical Service Instructions

SI-5GE0B

# FD-2200

Front derailleur

In order to realize the best performance, we recommend that the following combination be used.

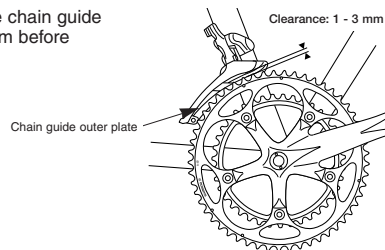
Shifting lever	ST-3300
Outer casing	SP40
Gears	16
Front derailleur	FD-2200
Front chainwheel	FC-2200
Bottom bracket	BB-UN25 (110mm)
Rear derailleur	RD-2200
Freehub	FH-2200
Cassette sprocket	CS-HG50-8
Chain	CN-HG50
Bottom bracket cable guide	SM-SP17

## Specifications

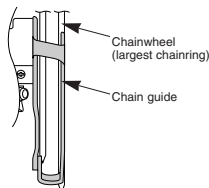
Type	Band type / Brazed on type
Front derailleur installation band diameter	S (28.6mm), M (31.8mm)
Chainstay angle (α)	61° - 66°
Chain line	43.5mm

## Installation of the front derailleur

- Adjust so that the clearance between the chain guide outer plate and the large gear is 1 - 3 mm before installing.



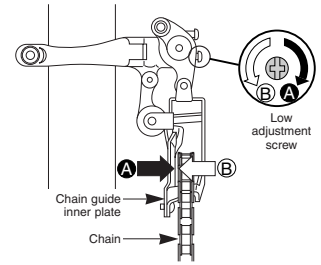
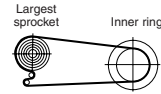
- The level section of the chain guide outer plate should be directly above and parallel to the largest chainring.
- Secure using a 5mm Allen key.



## SIS adjustment

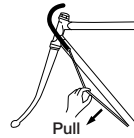
### 1. Low adjustment

Set so that the clearance between the chain guide inner plate and the chain is 0-0.5 mm.



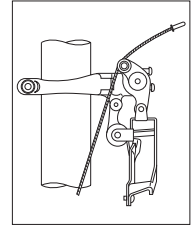
### 2. Connection and securing of cable

While pulling the inner cable, tighten the wire fixing bolt with a 5 mm allen key to secure the cable.



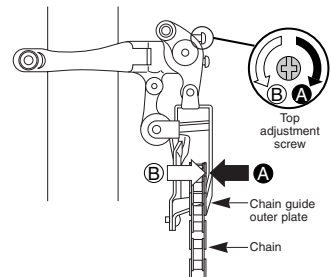
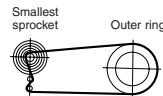
Tightening torque: 5 - 7 N·m {44 - 60 in. lbs.}

After taking up the initial slack in the cable, re-secure to the front derailleur as shown in the illustration.



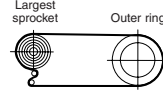
### 3. Top adjustment

Set so that the clearance between the chain guide outer plate and the chain is 0-0.5 mm.

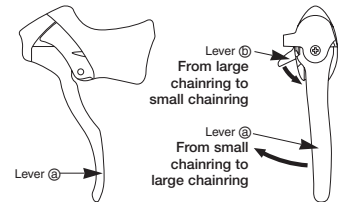


### 4. Adjustment of the cable tension

- Set the chain to the largest rear sprocket, and shift the front to top gear.



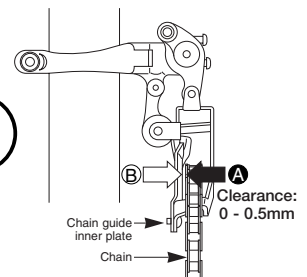
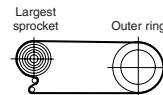
#### ■ Front shifting (ST-3300)



- Perform the trimming.

■ Trimming (noise-prevention mechanism)  
Gently press the lever @.  
(A "click" sound will be heard.)

- After trimming, adjust the clearance (by using the cable-adjustment bolt) of the chain and chain guide to the minimum (0-0.5mm).



Outer casing adjustment bolt

Be sure to read these service instructions in conjunction with the service instructions for the ST-3300 before use.

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