

FD-A416

Front derailleur

Before use, read these instructions carefully, and follow them for correct use.

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

Series	RSX
Shifting lever	ST-A416
Outer casing	SIS SP40
Gears	16
Front derailleur	FD-A416
Front chainwheel	FC-A416
Bottom bracket	BB-LP27
Rear derailleur	RD-A416
Freehub	FH-A416
Cassette sprocket	CS-HG50-8
Chain	CN-HG50
Bottom bracket cable guide	SM-SP17

Specifications

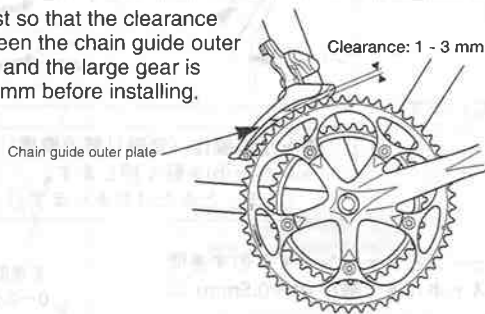
Type	Band type / Brazed on type
Front derailleur installation band diameter	S (28.6mm). M (31.8mm)
Chainstay angle (α)	61° - 66°
Chain line	43.5mm

Note

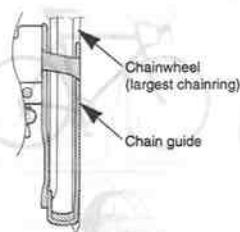
- For smooth operation, always be sure to use the specified outer casing and the bottom bracket cable guide.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

Installation of the front derailleur

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



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



Tightening torque:
5 - 7 Nm
{44 - 60 in. lbs.}

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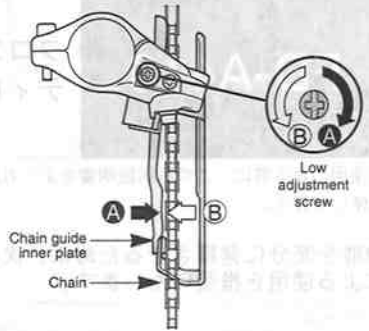
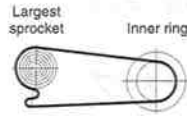
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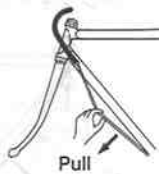
1. Low adjustment

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



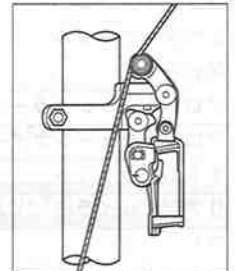
2. Connection and securing of cable

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



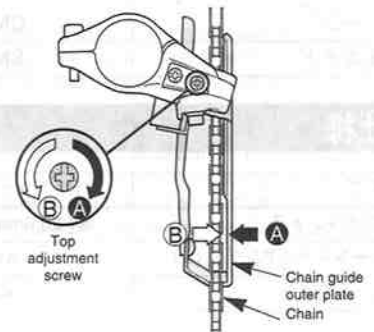
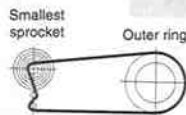
Tightening torque: 5 - 7 Nm
{44 - 60 in. lbs.}

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



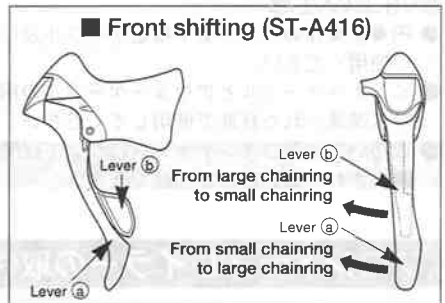
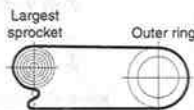
3. Top adjustment

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

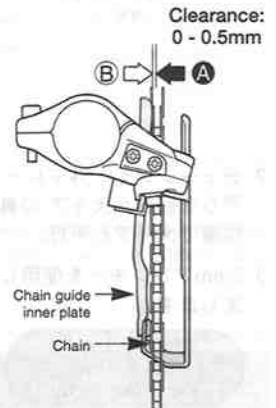
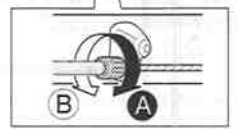
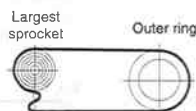
- (1) Set the chain to the largest rear sprocket, and shift the front to top gear.



- (2) Perform the trimming.

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

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



Be sure to read these service instructions in conjunction with the service instructions for the ST-A416 before use.