SERVICE INSTRUCTIONS

Front Derailleur

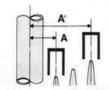
For proper and safe performance, read and follow these instructions carefully.

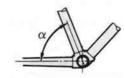
Note

- ●This front derailleur is exclusively for a front chainwheel triple gear. Do not use for a double gear, as poor gear shifting will result.
- For the chain, be sure to use only the Shimano narrow-type chain. The wide-type chain cannot be used.

Specifications

Capacity (Front gear tooth difference)	Round gear	8T. ~ 26T.
	Biopace SG gear	8T. ~ 24T.
Installation band diameter		Ø28.0 ~ Ø28.6mm Ø31.4mm, Ø34.9mm
Stroke (A—A')	Ø28.0~Ø28.6mm	35~55mm
	Ø31.4mm	37~57mm
	Ø34.9mm	38~58mm
Frame angle (α)		63° ~ 66°



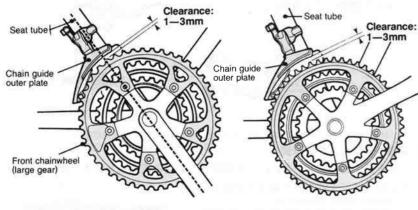


Installation to the frame

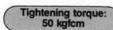
1. Adjust so that the clearance between the chain guide outer plate and the large gear is 1-3 mm before installing.

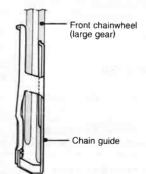
For Biopace gear





- 2. The outside surface of the chain guide should be directly above and parallel to the large gear.
- 3. Secure by using a 5mm Allen key.





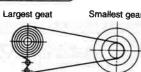
Adjustment and cable securing

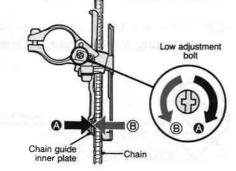
Be sure to follow the sequence described below.

1. Low adjustment

Set the chain guide inner plate to the smallest gap at which the chain guide does not contact the chain



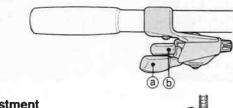




2. Cable securing

Press the Rapidfire lever (b) three or four times to set the lever to low gear. Then, while forcefully pulling the inner cable, tighten the holding bolt at a torque of 50 kafem to secure

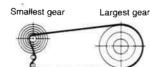
Tighten by using a 5mm Allen key.

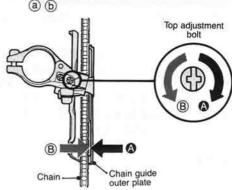


3. Top adjustment

Set the chain guide outer plate to the smallest gap at which the chain guide does not contact the





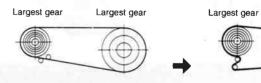


4. Tension adjustment of the cable

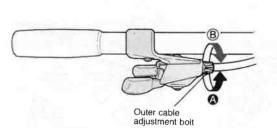
1) After taking up the initial slack in the cable, reattach to the front derailleur.

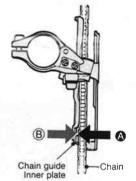


2) Set the chain to the largest rear sprocket, and at the front, use the Rapidfire to shift from the largest chainwheel to the intermediate chainwheel.



3 Adjust, by using the Rapidfire's outeradjustment bolt, so that there is the minimum clearance, but so that the chain and the plate (inside the chain guide) do not contact.





Intermediate gear

5. Trouble shooting chart

After completion of 1—4, move the shift lever to check the shifting.

If the chain falls to the crank side.	Tighten the top adjustment bolt clockwise (about 1/4 turn).	
If shifting is diffcult from the intermediate gear to the larger gear.	Loosen the top adjustment bolt counterclockwise (about 1/8 turn).	
If shifting is difficult from the intermediate gear to the small gear.	Loosen the low adjustment bolt counterclockwise (about 1/4 turn).	
If there is interference of the chain and front derailleur inner plate at the largest gear of the front chainwheel.	Tighten the top adjustment bolt clockwise (about 1/8 turn).	
If there is interference of the chain and front derailleur outer plate at the largest geat of the front chainwheel.	Loosen the top adjustment bolt counterclockwise (1/8 turn).	
If the intermediate gear is skipped when shiting from the largest fear.	Loosen the outer cable adjustment bolt counterclockwise (1 or 2 turns)	
If there is interference of the chain and front derailleur inner plate when, at the intermediate gear position, the rear chainwheel is shifted to the largest gear.	Tighten the outer cable adjustment bolt clockwise (1 or 2 turns).	
If the chain falls to the bottom bracket side.	Tighten the low adjustment bolt clockwise (1/2 turn).	

Note: If use is not as Shimano Total Integration, 4. Tension adjustment of the cable and items marked ★ in 5. Trouble shooting chart are not necessary.

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