

# SERVICE INSTRUCTIONS

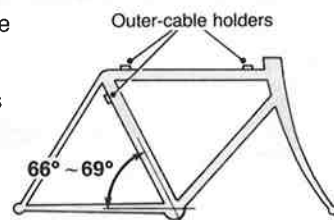
**FD-M736**  
**FD-M651**  
**FD-M301**

Front Derailleur

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

## Note:

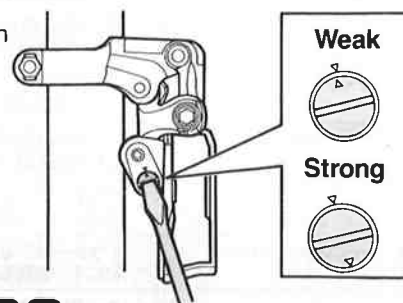
- This front derailleur is for front chainwheel triple gear use only. It cannot be used with the double gear, because the shifting performance is not good.
- For the chain, be sure to use only the Shimano narrow-type chain. The wide-type chain cannot be used.
- When installing the front derailleur, choose a frame that has an angle between 66° and 69° (as shown in the illustration below).



## Specifications

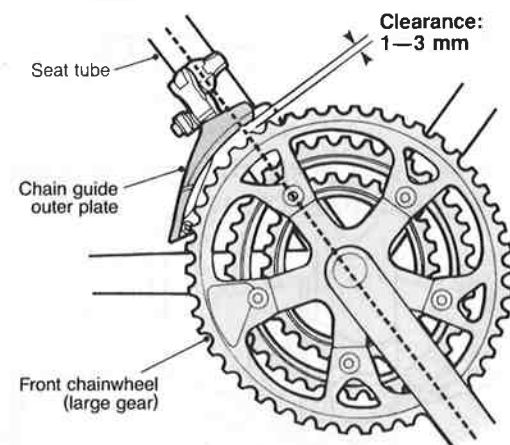
			M736	M651	M301
Capacity (front gear tooth difference)	Round gear	8T—26T	○	○	○
	CR-BP15	8T—22T	○	○	○
	Shimano SG gear	8T—22T	○	○	○
Installation band diameter	Band type	Ø28.6	○	○	○
		Ø31.8	○	○	○
		Ø34.9	○	○	—
	EC type	Ø31.8	○	○	○
Stroke (A—A')	Band type	Ø28.6	35—55	○	○
		Ø31.8	38—58	○	○
		Ø34.9	38—58	○	—
	EC type	Ø31.8	38—58	○	○
	EC type	Ø34.9	38—58	—	○

The load strength can be changed from strong to weak and vice versa.  
(FD-M736, FD-M651)

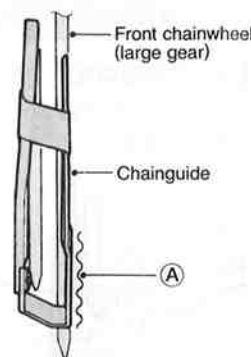


## Installation to the frame

1. For the Biopace, set so the crank comes to the position of an imaginary line extended from the seat tube.



2. The outside surface (A) of the chain guide should be directly above and parallel to the large gear.



3. Secure by using a 5mm Allen key.

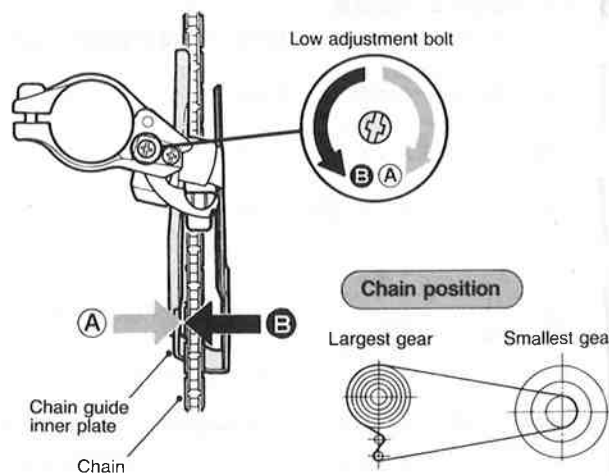
**Tightening torque:**  
50 kgfcm (43 in.lbs.)

## Adjustment and cable securing

Be sure to follow the sequence described below.

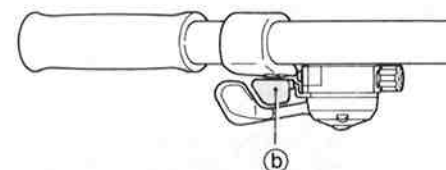
### 1. Low adjustment

Set so that the clearance between the chain guide inner plate and the chain is 1—1.5mm.

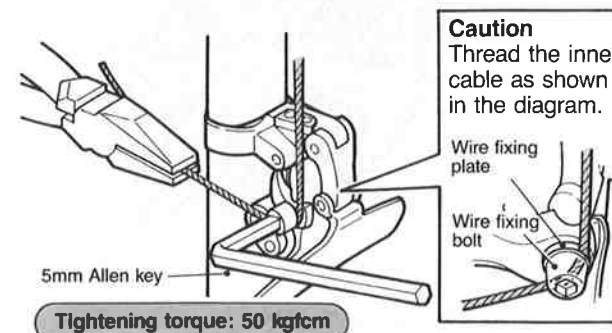


## 2. Fixing the cable

- ① Press lever (b) 3 or 4 times to move the lever to low position.

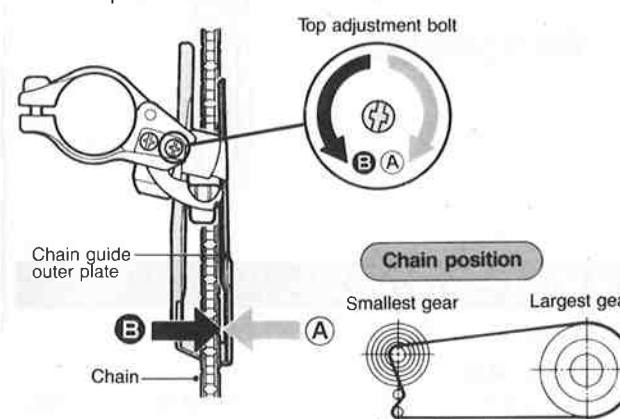


- ② While pulling the inner cable firmly, tighten the wire fixing bolt with a 5mm Allen key.



## 3. Top adjustment

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



## 5. Trouble shooting chart

After completion of 1—4, move the shift lever to check the shifting.  
(This also applies if shifting becomes difficult during use.)

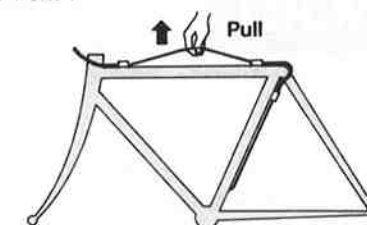
If the chain falls to the crank side	Tighten the top adjustment bolt clockwise (about 1/4 turn).
If shifting is difficult from the intermediate gear to the large gear	Loosen the top adjustment bolt counterclockwise (about 1/8 turn).
If shifting is difficult from the intermediate gear to the small gear	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 chain wheel	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 gear of the front chain wheel	Loosen the top adjustment bolt counterclockwise (1/8 turn).
If the intermediate gear is skipped when shifting from the largest gear	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, items marked ★ are not necessary.

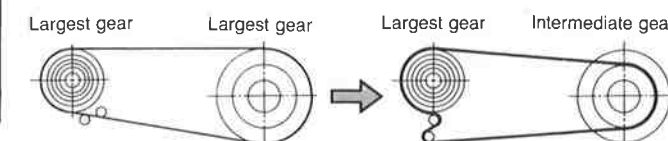
## 4. Tension adjustment of the cable

If use is not as Shimano Total Integration, the step "Tension adjustment of the cable" is not necessary.

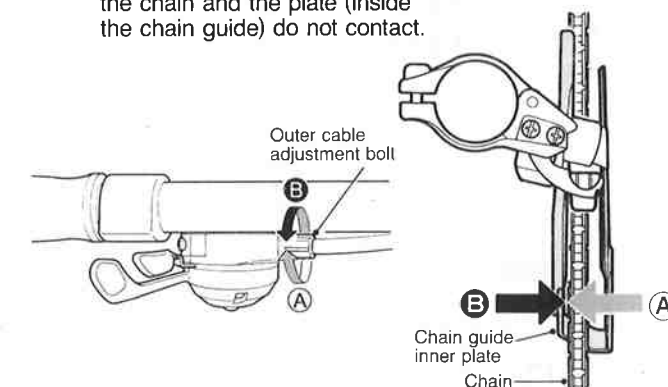
- ① After taking up the initial slack in the cable, reattach to the front derailleur.



- 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 outer-adjustment bolt, so that there is the minimum clearance, but so that the chain and the plate (inside the chain guide) do not contact.



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Please note: specifications are subject to change for improvement without notice. (English)

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