

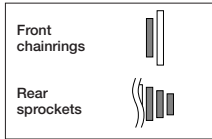
# General Safety Information

## WARNING

- Install a bashguard (165 mm) to the front chainwheel. If the bashguard is not installed, the chain may come off the chainrings or damage to the chainrings may occur. If the bashguard used is larger than 165 mm, it may interfere with the front derailleur and problems with shifting may occur.
- Be careful not to let the cuffs of your clothes get caught in the chain while riding, otherwise you may fall off the bicycle.
- 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.
- Obtain and read the service instructions carefully prior to installing the parts. If adjustments are not carried out correctly, the chain may come off and this may cause you to fall off the bicycle which could result in serious injury.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

## Note

- Turn the top adjustment screw to adjust so that the chain does not sit on top of the bash guard.
- If gear shifting operations do not feel smooth, wash 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.



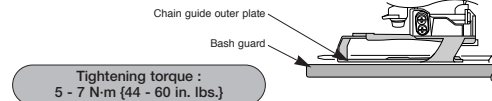
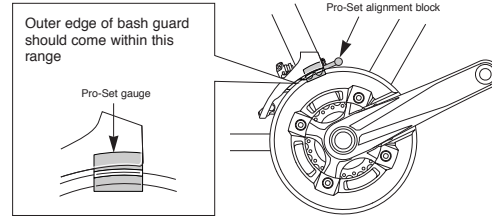
- For smooth operation, use the specified outer casing and the bottom bracket cable guide.
- Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.
- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.

## Installation of the front derailleur

Adjust and then install the front derailleur as shown in the illustration. Do not remove the Pro-Set alignment block at this time.

### <Front derailleur height and parallelism adjustment>

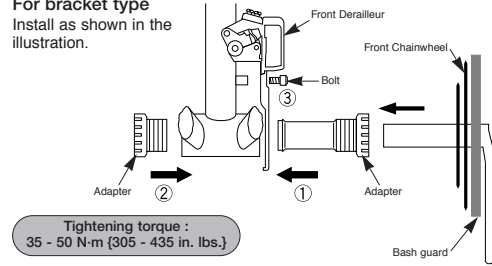
With the flat part of the chain guide outer plate on the inside of the bash guard as shown in the illustration, adjust the height of the front derailleur so that the outer edge of the bash guard is within the specified range on the Pro-Set gauge. Also adjust so that the flat part of the outer plate is parallel to the inner surface of the bash guard. Use a 5 mm Allen key to tighten.



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

### For bracket type

Install as shown in the illustration.



Tightening torque : 35 - 50 N·m {305 - 435 in. lbs.}

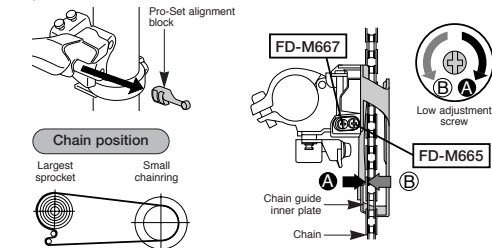
When installing the components to carbon frame/handle bar surfaces, verify with the manufacturer of the carbon frame/parts for their recommendation on tightening torque in order to prevent over tightening that can cause damage to the carbon material and/or under tightening that can cause lack of fixing strength for the components.

## SIS Adjustment

Be sure to follow the sequence described below.

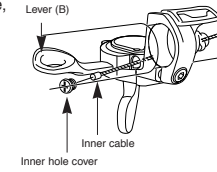
### 1. Low adjustment

First remove the Pro-Set alignment block. Next, set so that the clearance between the chain guide inner plate and the chain is 0 - 0.5 mm.

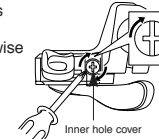


### 2. Connecting and securing the inner cable

Operate lever (B) two times or more, and check on the indicator that the lever is at the lowest position. Then remove the inner hole cover and connect the inner cable.



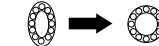
Install the inner hole cover by turning it as shown in the illustration until it stops. Do not turn it any further than this, otherwise it may damage the screw thread.



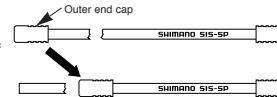
Tightening torque : 0.3 - 0.5 N·m {3 - 4 in. lbs.}

### Cutting the outer casing

After cutting the outer casing, make the end round so that the inside of the hole has a uniform diameter.

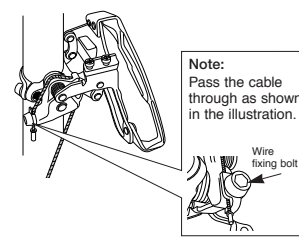


Attach the same outer end cap to the cut end of the outer casing.

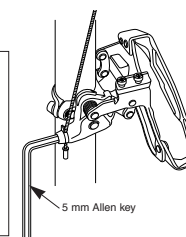


### • FD-M665

< Normal type >

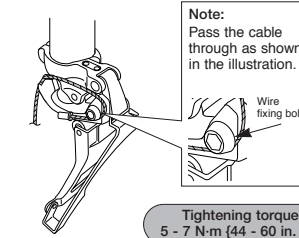


< Top route type >

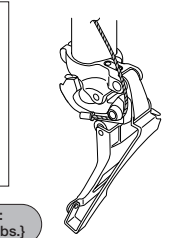


### • FD-M667

< Normal type >

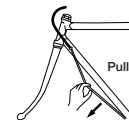


< Top route type >

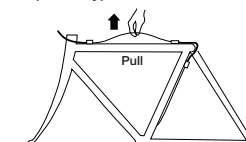


After taking up the initial slack in the cable, re-secure to the front derailleur as shown in the illustration.

Normal type

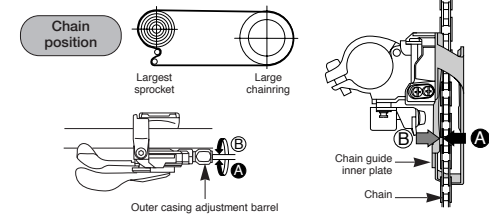


Top route type

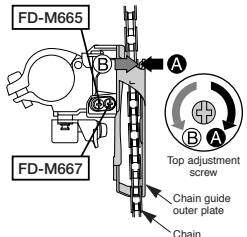


### 3. Top adjustment

Set the chain onto the large chainring and the largest sprocket when carrying out this adjustment. Turn the outer casing adjustment barrel to adjust so that the clearance between the chain guide inner plate and the chain is 0 - 0.5 mm.



Turn the top adjustment screw to adjust so that the front derailleur cannot move in the top direction any further than this. Be careful not to tighten the screw too much at this time.



### 4. Troubleshooting chart

After completion of steps 1 - 3, move the shifting lever to check the shifting. (This also applies if shifting becomes difficult during use.)

If shifting is difficult from the large chainring to the small chainring.	Loosen the low adjustment screw counterclockwise (about 1/4 turn).
If there is interference between the chain and the front derailleur inner plate when the chain is on the large chainring and the largest sprocket	Tighten the top adjustment screw clockwise (about 1/8 turn). If this still does not solve the problem, tighten the outer casing adjustment barrel by turning it clockwise by 1 to 2 turns.
If there is interference between the chain and the front derailleur outer plate at the large chainring.	Loosen the top adjustment screw by turning it counterclockwise (about 1/2 turn). If this still does not solve the problem, loosen the outer casing adjustment barrel by turning it counterclockwise by 1 to 2 turns.
If the chain falls to the bottom bracket side.	Tighten the low adjustment screw clockwise (about 1/2 turn).

Be sure to read the service instructions for the Front Drive System in conjunction with these service instructions.

## Technical Service Instructions

SI-5KY0A-002

# FD-M665 / FD-M667



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## Specifications

X = Available

Model number	FD-M665/M667	FD-M665-E
Normal type	X	X
Top route type	X	X
Front chainwheel tooth difference	14T	14T
Front derailleur installation band diameter	S, M, L	-
Chainstay angle (α)	65° - 71°	65° - 71°
Applicable chain line	46.8 mm	46.8 mm
Applicable front chainwheel	For double chainwheel only (36-22T)	

# SHIMANO

## SHIMANO AMERICAN CORPORATION

One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

## SHIMANO EUROPE B.V.

Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

## SHIMANO INC.

3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

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