### SI-5N30A-001-00 **General Safety Information**

### **WARNING**

- 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

- This front derailleur is for triple front chainwheel use only. It cannot be used with the double front chainwheel, as the shifting points do not match
- 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 if the chain is in the position shown in Figure 1. Shift the chain onto the next-smaller sprocket or the one after if it is in the position shown in Figure 2.



- For frames with suspension, the chain stay angle will vary depending on whether the bicycle is being ridden or not being ridden. When the bicycle is not being ridden and the chain is positioned on the largest/larger chainring and on the smallest sprocket, the chain guide outer plate of the front derailleur may touch the chain.
- Shimano does not provide the bottom bracket mount fixing bolts.
- 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.
- Be sure to read the service instructions for the Front Drive System in conjunction with these service instructions.

FD-M780 FD-M780-E

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**Technical Service Instructions** 

**Specifications** 

Front chainwheel tooth difference

Min. difference between top and intermediate

Front derailleur installation band diameter

Model number

Top route type

Chainstay angle (α)

Applicable chain line

Applicable front chainwheel

Normal type

SI-5N30A-001

# FD-M780 / FD-M780-E FD-M781 / FD-M781-D



X = Available

FD-M781-D

FD-M781

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18T

10T

66° - 69°

50 mm

For triple chainwheel only (42-32-24T)



• FD-M781-D



screw

Inner cable

Inner hole cove



Install the inner hole cover by turning it as

shown in the illustration until it stops.



\* If the bicycle has rear suspension, first check the recommended segment position according to the owner's manual for the bicycle. Next, use a fixing band or similar to set the rear suspension to the recommended stroke for the rear suspension, and then adjust the front derailleur.

#### 1. Low adjustment

• FD-M780 / M781

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





Switch the mode converter to the 3x (triple mode) position, and then check the lowest position. Operate lever B two times or more to set the lever to the lowest position. Remove the inner hole cover, and install the cable.



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Pass the cable through as shown

Wire fixing bolt

Note

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in the illustration

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\* Service Instructions in further languages are available at : http://si.shimano.com

## Installation of the front derailleur



#### Note

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.

## Note:

Do not force the mode select switch to turn. If you force it to turn, it will break.



#### 5. Troubleshooting chart

After completion of steps 1 - 4, move the shifting 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 screw clockwise (about 1/4 turn).
If shifting is difficult from the	Loosen the top adjustment screw
intermediate chainring to the	counterclockwise
largest chainring.	(about 1/8 turn).
If shifting is difficult from the	Loosen the low adjustment screw
intermediate chainring to the	counterclockwise
smallest chainring.	(about 1/4 turn).
If the chain does not shift	Turn the outer casing adjustment
smoothly from the intermediate	barrel about 1/4 of a turn
chainring to the largest chainring	counterclockwise.
even though the top adjustment	
bolt has been adjusted.	
If the chain does not shift	Turn the outer casing adjustment
smoothly from the intermediate	barrel about 1/4 of a turn
chainring to the smallest chainring	clockwise.
even though the low adjustment	
bolt has been adjusted.	
If there is interference between	Tighten the top adjustment screw
the chain and the front derailleur	clockwise (about 1/8 turn).
inner plate at the largest	
chainring.	
If there is interference between	Loosen the top adjustment screw
the chain and the front derailleur	counterclockwise
outer plate at the largest	(about 1/8 turn).
chainring.	
If the intermediate chainring is	Loosen the outer casing
skipped when shifting from the	adjustment barrel
largest chainring.	counterclockwise (1 or 2 turns).
If there is interference between	Tighten the outer casing
the chain and front derailleur	adjustment barrel clockwise
inner plate when the rear sprocket	(1 or 2 turns).
is shifted to the largest sprocket	
when the chainwheel is at the	
intermediate chainring position.	
If the chain falls to the bottom	Tighten the low adjustment screw
bracket side.	clockwise (about 1/2 turn).
If the lever is stiff when shifting	Loosen the top adjustment screw
from the intermediate chainring to	counterclockwise (about 1/4 turn).
the largest chainring.	

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5 mm Allen key

**Tightening torque** 6 - 7 N·m {52 - 60 in. lbs.}

5 mm Allen ker

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SHIMANO INC.

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