SI-37P0A-003-00 **General Safety Information**

A WARNING – To avoid serious injuries:

• When securing the brake arm to the frame, be sure to use a brake arm clip that matches the size of the chainstay, and securely tighten them with the clip screw and clip nut to the specified tightening torque. Use a lock nut with a nylon insert (self-locking nut) for the clip nut. It is recommended that standard Shimano parts be used for the clip screw, clip nut and brake arm clip. In addition, use a brake arm clip that matches the size of the chainstay.

If the clip nut comes off the brake arm, or if the clip screw or brake arm clip becomes damaged, the brake arm may rotate on the chainstay and cause the handlebars to jerk suddenly, or the bicycle wheel may lock and the bicycle may fall over, causing serious iniury

- When installing the hub to the frame, be sure to install the correct non-turn washers to the left and right sides, and securely tighten the hub nuts to the specified torques. If the non-turn washers are installed to one side only, or if the hub nuts are not tightened sufficiently, the non-turn washer may fall out, which could cause the hub axle to rotate and the cassette joint to turn. This may then cause the handlebars to be accidentally pulled by the shifting cable, and an extremely serious accident could result.
- Obtain and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause serious injury to the rider We strongly recommend only using genuine Shimano replacement parts.
- Check that the wheels are fastened securely before riding the bicycle. If the wheels are loose in any way, they may come off the bicycle and serious injury may result
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

NOTE:

- On rare occasions the pawls and ratchet inside the hub may produce some noise afterwards as part of normal gear shifting operation
- If it is difficult to shift gears while pedaling, stopping pedals enables you to shift gears easily.
- The CJ-NX40 cassette joint should only be used with sprockets from 16 to 23T in case of outward assembly and sprockets from 19 to 23T in case of inward assembly
- It is recommended that the gear ratio of the front chain ring be set to approx. 2.6.

Example: F41T-R16T, F42T-R16T

- To maintain the performance of the unit, it is recommended that maintenance such as application of grease be performed at the shop from which you purchased it or at a professional shop every 2 years after start of use (every 5,000km if riding frequently). It is also recommended to use grease exclusively for Shimano internal hubs or the oil kit for maintenance. Failure to use the exclusive grease or oil kit may cause problems such as internal mechanism malfunctions, etc
- The internal hub is not completely waterproof. Avoid using the hub in places where water might get inside it and do not use high-pressure water to clean the hub, otherwise the internal mechanism may rust.
- If the wheel becomes stiff and difficult to turn, you should lubricate it with grease.
- Do not apply any lubricant to the inside of the hub, otherwise the grease will come out.
- You should periodically wash the sprockets in a neutral detergent and then lubricate them again. In addition, cleaning the chain with neutral detergent and lubricating it can be a effective way of extending the useful life of the sprockets and the chain.
- If the chain keeps coming off the sprockets during use, replace the sprockets and the chain
- 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 handling or adjustment, please contact the place of purchase.
- Do not disassemble the hub by yourself. If it is necessary to disassemble it, consult the shop from which you purchased it.

	SI-37P0A-003
SG-3R75	Inter-3 Hub
CJ-NX40	Cassette joint

Technical Service Instructions

Be sure to read these service instructions in conjunction with the service instructions for the Inter-M Brake and the Inter-3 shifting lever before use.

Installation of the sprocket to the hub

Place right hand dust cap C onto the driver on the right side of the hub body. Next, install the sprocket and secure it in place with the snap ring.



Installation of the cassette joint to the hub

1. Install the driver cap to the driver to the right side of the hub body. Next, turn the cassette joint pulley in the direction of the arrow so that the yellow ● mark is aligned with the yellow ▲ mark, and then align the yellow **A** marks on the cassette joint with the vellow **A** marks on the right side of the hub body.





2. Secure the cassette joint to the hub with the cassette joint fixing ring. When installing the cassette joint fixing ring, align the yellow • mark with the yellow • mark on the cassette joint pulley, and then turn the cassette joint fixing ring 45°clockwise





Installing the Inter-M brake to the hub body

Engage the serrations on the hub body with the serrations on the Inter-M brake, and then provisionally tighten the brake unit fixing nut



Inter-M brake

Refer to the Technical Service Instructions for the Inter-M brake for details on installing the Inter-M brake

Installation of the hub to the frame

1 Mount the chain on the sprocket, and then set the hub axle into the fork ends.



2. Place the non-turn washers onto the right side and left side of the hub axle. At this time, turn the cassette joint so that the projecting parts of the non-turn washers fit into the grooves of the fork ends. If this is done, the cassette joint can be installed so that it is almost parallel to the chainstay.



 Use whichever non-turn washers match the shape of the dropouts. Different non-turn washers are used at the left and right sides.

	Non-turn washer		
Fork end	Mark / Color		Siz
	Right	Left	312
Standard	7R/Black	7L/Gray	20°≦θ
Reversed	6R/Silver	6L/White	θ=0
Reversed (full chain case)	5R/Yellow	5L/Brown	θ=0



- The projecting parts should be on the fork end side.
- Install the non-turn washers so that the projecting parts is securely in the fork end grooves on either side of the hub axle.
- 3. Install the brake arm of the Inter-M brake to the chainstay with the brake arm clip, provisionally tighten the clip screw and clip nut, and then tighten the brake unit fixing nut.

Note:

If the brake arm is in the incorrect position as shown in the illustration so that it cannot be provisionally installed to the chainstay, loosen the brake unit fixing nut and turn the brake arm. Then, after provisionally securing the brake arm to the chainstay, tighten the brake unit fixing nut.



4. Take up the slack in the chain and secure the wheel to the frame with the cap nuts











Note:





5. Fix the brake arm of the Inter-M brake securely to the chainstay with the brake arm clip.



Chainstay

Note:

• When installing the brake arm clip, securely tighten the clip screw while holding the clip nut with a 10 mm spanner.



 After installing the brake arm clip, check that the clip screw protrudes about 2 - 3 mm from the surface of the clip nut.



These service instructions explain how to use and maintain the Shimano bicycle parts which have been used on your new bicycle. For any questions regarding your bicycle or other matters which are not related to Shimano parts, please contact the place of purchase or the bicycle manufacturer.

- * Service Instructions in further languages are available at: http://techdocs.shimano.com
- Please note: Specifications are subject to change for improvement without notice. (English)



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