General Safety Information

A WARNING – To avoid serious injuries:

 When installing the hub to the frame, be sure to install the correct nonturn 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 replacemen 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:

- You can shift gears while pedaling, but on rare occasions the pawls and ratchet inside the hub may produce some noise afterwards as part of normal gear shifting operation.
- The 8-speed hub has a built-in mechanism to support shifting. When this support mechanism operates during shifting, noise or vibration may occur. The shifting feel may also change depending on the gear position at the time of shifting

Noise may also be generated if the crank arms are turned backward or if the bicycle is pushed backward when the gear position is 5, 6, 7 or 8. These occurrences are a normal result of the structure of the internal gear shifting mechanism, and are not a sign of a malfunction.

- The CJ-8S20 cassette joint should only be used with sprockets from 16T to 23T
- · If using a chain tensioner, use the special CS-S500 18T or 20T sprocket with chain guard. Do not use any other types of sprockets, otherwise the chain may come off the sprockets.
- · In order to maintain proper performance, it is recommended that you ask the place where you purchased the bicycle or your nearest Pro shop to carry out maintenance such as greasing the internal hub about once every two years starting from the first time of use (or once about every 5,000 km if the bicycle is used very frequently). Furthermore, it is recommended that you use the Shimano internal hub grease or lubrication kit when carrying out maintenance. If the special grease or lubrication kit is not used, problems may occur such as the gear shifting not working correctly
- · 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.

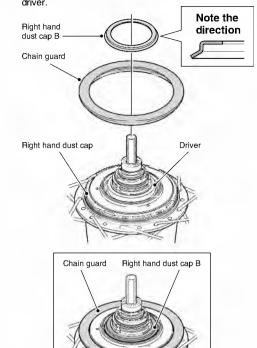


Technical Service Instructions

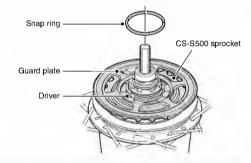
Be sure to read these service instructions in conjunction with the service instructions for the brake and the shifting lever before use.

Installation of the CS-S500 sprocket with chain quard

Install the chain guard to the right hand dust cap of the hub body, and then install right hand dust cap B to the driver.

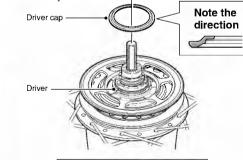


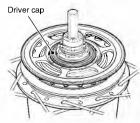
2 Install the CS-S500 sprocket to the driver on the right side of the hub body with the guard plate facing outward, and secure it in place with the snap ring.



Installation of the cassette joint to the hub

Install the driver cap to the driver on the right side of the hub body.

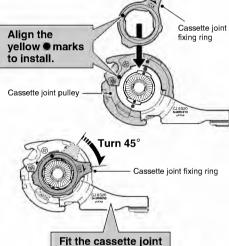




Turn the cassette joint pulley in the direction of the arrow in the illustration to align the red
marks on the pulley and the bracket. With the cassette joint in this condition, install it so that the red
mark on the cassette joint is aligned with the red ● mark on the right side of the hub body.

Should be aligned Cassette joint S Align the red • marks to install. Align the red • marks to install. Bight side o

3. 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.

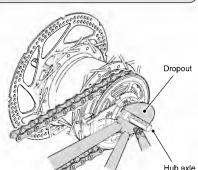


Installation of the hub to the frame

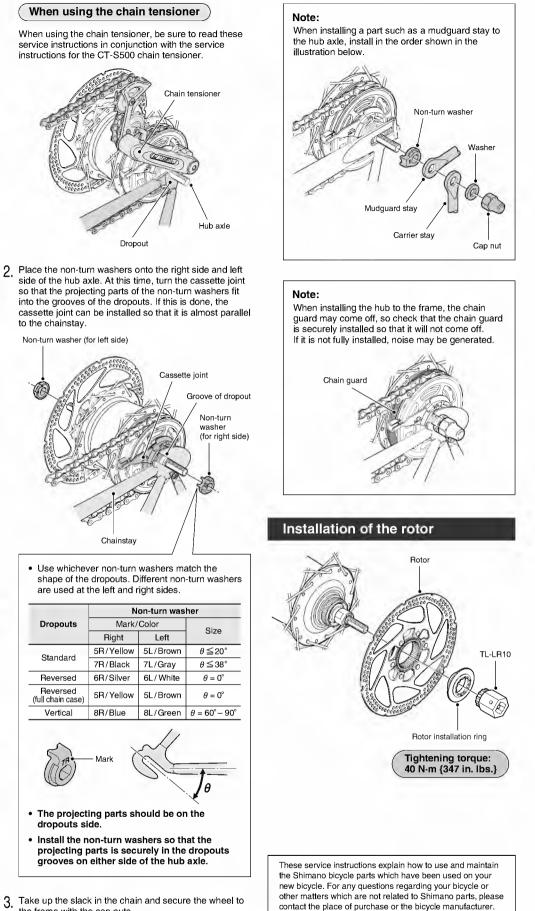
bracket securely.

- The method of installing the hub to the frame is the same when the chain tensioner is being used and when it is not being used
- Mount the chain on the sprocket, and then set the hub axle into the dropouts

When not using the chain tensioner



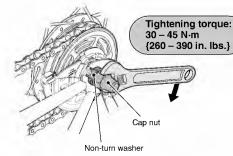
service instructions in conjunction with the service instructions for the CT-S500 chain tensioner.



to the chainstav

	Dropouts	Non-turn washer		
		Mark/Color		Size
		Right	Left	5126
	Standard	5R/Yellow	5L/Brown	$\theta \leq 2$
		7R/Black	7L/Gray	$\theta \leq 3$
	Reversed	6R/Silver	6L / White	$\theta = 0$
	Reversed (full chain case)	5R/Yellow	5L/Brown	$\theta = 0$
	Vertical	8R/Blue	8L/Green	$\theta = 60^{\circ}$ -

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



These service instructions are printed on recycled paper Please note. Specifications are subject to change for improvement without notice (English)



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