General Safety Information

Installation of the HG sprockets A WARNING • Check that the wheels are fastened securely before riding the bicycle. If the wheels are For each sprocket, the surface that For installation of the HG sprockets, use the special loose in any way, they may come off the bicycle and serious injury may result. has the group mark should face tool (TL-LR15) to tighten the lock ring. Obtain and read the service instructions carefully prior to installing the parts. Loose, outward and be positioned so that worn, or damaged parts may cause injury to the rider. the wide parts of the gear Tightening torque: 30 - 50 N·m {261 - 434 in. lbs.} We strongly recommend only using genuine Shimano replacement parts. projections on each sprocket and • Read these Technical Service Instructions carefully, and keep them in a safe place for the A part (where the groove width later reference is wide) of the freewheel body are To replace the HG aligned. sprockets, use the special tool (TL-LR15) Note and TL-SR21 to remove E • Use the CS-M770 in combination with 9-speed chains (CN-7701 / HG93 / HG73 / HG53). the lock ring. • If the wheel becomes stiff and difficult to turn, you should lubricate it with grease. The groove is wide at one • Do not apply any oil to the inside of the hub, otherwise the grease will come out. TL-LR15 . You should periodically wash the sprockets in a neutral detergent and then lubricate them Disassembly place only. 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 Lock ring 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. CS-M770 (aq) _ock ring space CS-M770 (as) Technical Service Instructions SI-3CZ0A-002 FH-M775 / FH-M770

Freehub / Front hub

Replacement of the freewheel body

First, pull out the hub axle by following the procedure shown in the illustration. The double-lock section at the freewheel side cannot be disassembled.

Specifications

Freehub / Front hub

	Freehub		Front hub	
Model No.	FH-M775	FH-M770	HB-M775	HB-M770
Gears	9			
No. of spoke holes	32 / 36		32 / 36	
Overlock nut dimensions	135 mm		100 mm	
Applicable brakes	Disc brake	Rim brakes	Disc brake	Rim brakes

Cassette sprocket tooth combination

HB-M775 / HB-M770

Model number	Group name	Gears	Tooth combination
CS-M770	aq	9	11, 12, 14, 16, 18, 21, 24, 28, 32T
	as	9	11, 13, 15, 17, 20, 23, 26, 30, 34T

SHIMANO

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Please note: specifications are subject to change for improvement without notice. (English) © Apr. 2007 by Shimano Inc. XBC SZK Printed in Malaysia.





5 mm Allen key



17 mm snanne



(2) Rotor fixing serrations (FH-M775) Cone with dust cove (Cannot be disas Lip is on the outside

Note:

. When removing and installing the seal, do it very carefully so that the seal does not become bent. When reinstalling the seal, make sure that it is facing the right way, and insert it as far as it will go. • Do not disassemble the dust-proof cover which is crimped onto the cone. . The rotor fixing serrations may become damaged if

the disc brake rotor has not been installed to the FH-M775, so install the accessory rotor mount cover

After removing the hub axle, remove the freewheel body fixing bolt (inside the freewheel body), and then replace the freewheel body.

freewheel body fixing bolt, otherwise looseness or

Note: Be sure to apply grease to the the thread of the

ock rina

Tool (TL-SR21)

sticking may occur.





Freewheel body

Applying grease

IJRA-ACE grease

<HB-M775 / HB-M770>

Maintenance				
The unit can be disassembled as shown in the illustration. Apply grease to the various parts at periodic intervals.	 Note: The HB-M775 cannot be disassembled from the left side of the hub unit (the rotor fixing serration side). When removing and installing the seal, do it very carefully s that the seal does not become bent. When reinstalling the seal, make sure that it is facing the right of the seal does not become bent. 			
<hb-m775></hb-m775>	way, and insert it as far as it will go. • The rotor fixing serrations may become damaged if the disc			
	brake rotor has not been installed to the HB-M775, so install the accessory rotor mount cover.			
Rotor mount cover				
<hb-m770></hb-m770>				
	Seal CO			

Hub axle

<FH-M775 / HB-M775>

<Assembly>

Wheel spoke lacing

Tightening torque: 15 - 17 N·m {132 - 146 in. lbs.}

Use the special tool (TL-HS22/HS20 /17mm) for installing the hub axle and a 5 mm Allen key to tighten the lock nut so as to double-lock the mechanism as shown in the illustration.

Check that the spokes have been laced as shown in the illustration A radial assembly cannot be used.

Rotating direction of wheel



1 -HS22/HS20

Installation of the rotor

