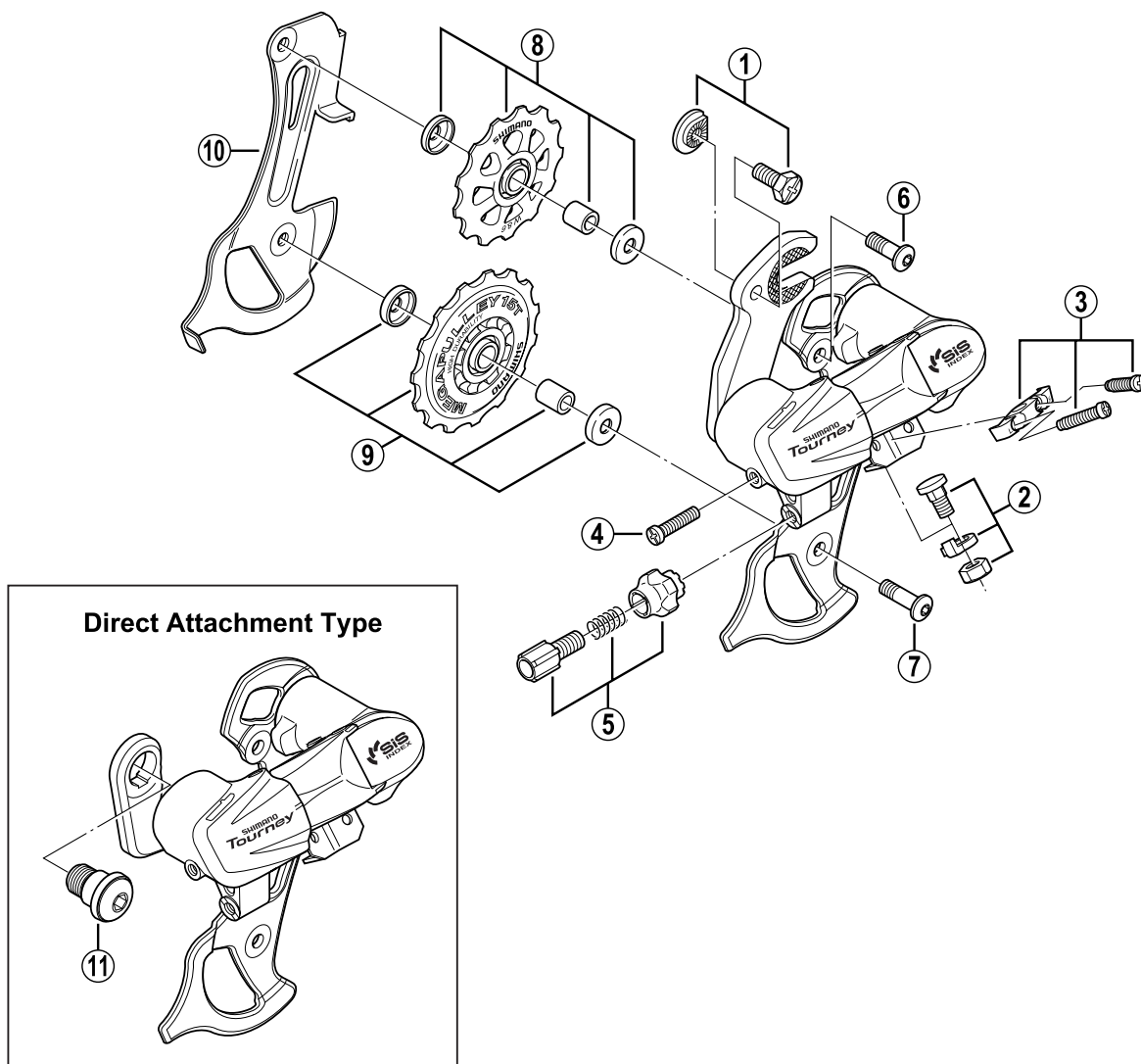


SHIMANO TOURNEY Rear Derailleur
RD-TX30 7-Speed or 6-Speed





Q'TY	ITEM NO.	SHIMANO CODE NO.	DESCRIPTION
	1	Y-54M 98030	Adapter Screw (M5 x 11.5) & Nut
	2	Y-5V7 98020	Cable Fixing Bolt Unit
	3	Y-5V6 98010	Stroke Adjusting Screws (M4 x 15.3) & Plate
	4	Y-5T8 22100	B-Tension Adjusting Screw (M4 x 17.5)
	5	Y-5V8 98030	Cable Adjusting Bolt Unit
	6	Y-5TW35010	Guide Pulley Bolt (M5 x 14.5)
	7	Y-5TW35020	Tension Pulley Bolt (M5 x 16.2)
	8	Y-5T4 98040	Guide Pulley Unit
	9	Y-5V6 98020	Tension Pulley Unit
	10	Y-5T4 10000	Inner Plate
	11	Y-5TW98010	B-Axle w/Spacer (Direct Attachment Type)

General Safety Information

WARNING

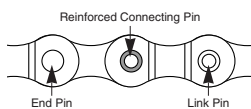
- Use neutral detergent to clean the chain. Do not use alkali-based or acid based detergent such as rust cleaners as it may result in damage and/or failure of the chain.
- Use the reinforced connecting pin only for connecting the narrow type of chain.
- There are two different types of reinforced connecting pins available. Be sure to check the table below before selecting which pin to use. If connecting pins other than reinforced connecting pins are used, or if a reinforced connecting pin or tool which is not suitable for the type of chain is used, sufficient connection force may not be obtained, which could cause the chain to break or fall off.

Chain	Reinforced connecting pin	Chain tool
9-speed super narrow chain such as CN-7701 / CN-HG93	 Silver	TL-CN32 / TL-CN23
8-/7-/6-speed narrow chain such as CN-HG50 / CN-IG51	 Black	TL-CN32 / TL-CN23

- If it is necessary to adjust the length of the chain due to a change in the number of sprocket teeth, make the cut at some other place than the place where the chain has been joined using a reinforced connecting pin or an end pin. The chain will be damaged if it is cut at a place where it has been joined with a reinforced connecting pin or an end pin.
- Check that the tension of the chain is correct and that the chain is not damaged. If the tension is too weak or the chain is damaged, the chain should be replaced. If this is not done, the chain may break and cause serious injury.
- 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.
- Obtain and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause injury to the rider.
- We strongly recommend only using genuine Shimano replacement parts.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

Note

- The reinforced connecting pins cannot be used with the UG chain, otherwise the connections will not move properly and noise will occur.
- 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.
- You should periodically clean the derailleur and lubricate all moving parts (mechanism and pulleys).
- If gear shifting adjustment cannot be carried out, check the degree of parallelism at the rear end of the bicycle. Also check if the cable is lubricated and if the outer casing is too long or too short.
- If you hear abnormal noise as a result of looseness in a pulley, you should replace the pulley.
- 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 an 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.
- Use an outer casing which still has some length to spare even when the handlebars are turned all the way to both sides. Furthermore, check that the shifting lever does not touch the bicycle frame when the handlebars are turned all the way.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- Use a frame with internal cable routing is strongly discouraged as it has tendencies to impair the SIS shifting function due to its high cable resistance.
- Operation of the levers related to gear shifting should be made only when the front chainwheel is turning.
- For smooth operation, use the specified outer casing and bottom bracket cable guide.
- To ensure the best performance, be sure to use only the specified type of chain. The wide type chain cannot be used.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.
- Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.



Technical Service Instructions

SI-6KN0A

Rear Drive System

SHIMANO
Tourney

In order to realize the best performance, we recommend that the following combination be used.

Series	Tourney
Gears	8 - gears
Shifting lever	Right SL-RS43-8
Outer casing	SIS40
Rear derailleur	RD-CT95 / RD-M340
Type	Smart Cage
Freehub	FH-RM30-8
Cassette sprocket	CS-HG50-8I / CS-HG40-8I / CS-HG30-8I
Chain	CN-HG50
Bottom bracket guide	SM-SP18 / SM-BT18

This service instruction explains 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.

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, Osaka 590-8577, Japan

Please note: specifications are subject to change for improvement without notice. (English)
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Specifications

Rear Derailleur

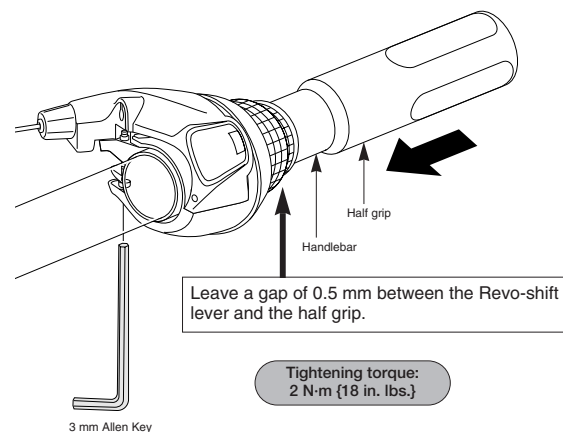
Model number	RD-CT95 / RD-M340
Type	Smart Cage
Total capacity	43T
Largest sprocket	34T
Smallest sprocket	11T
Front chainwheel tooth difference	20T
Applicable front chainwheel (chaining tooth configuration)	FC-TY40 (42-34-24T)

Cassette sprocket tooth combination

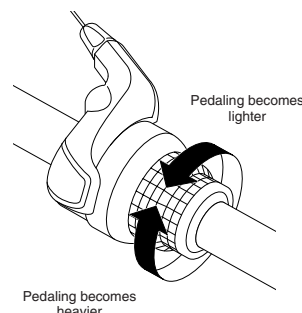
Model number	Sprockets	Group name	Tooth combination
CS-HG50-8I	8	an	11, 13, 15, 17, 20, 23, 26, 30T
CS-HG40-8I	8	ao	11, 13, 15, 17, 20, 23, 26, 34T
CS-HG30-8I	8	aw	11, 13, 15, 18, 21, 24, 28, 32T

Mounting the shifting lever

Install the brake lever in a position where it will not obstruct brake operation. Do not use in a combination which causes brake operation to be obstructed.

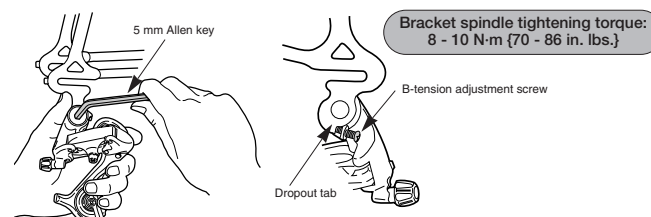


Gear shifting operation



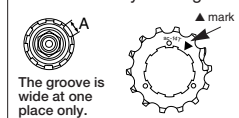
Installation of the rear derailleur

When installing, be careful that deformation is not caused by the B-tension adjustment screw coming into contact with the dropout tab.



Installation of the sprockets

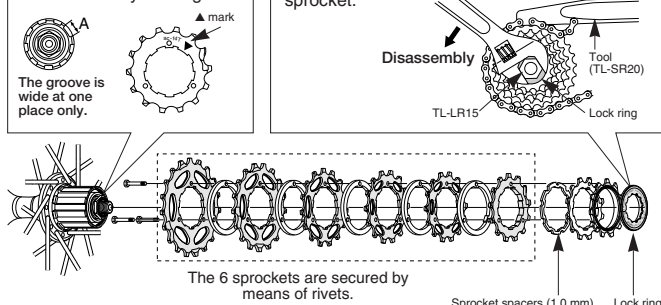
For each sprocket, the surface that has the group mark should face outward and be positioned so that the triangle (▲) mark on each sprocket and the A part (where the groove width is wide) of the freewheel body are aligned.



For installation of the HG sprockets, use the special tool (TL-LR15) to tighten the lock ring.

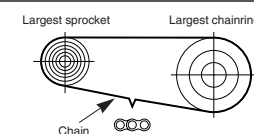
Tightening torque:
30 - 50 N·m {261 - 434 in. lbs.}

To replace the HG sprockets, use the special tool (TL-LR15) and TL-SR20 to remove the lock ring. Install the TL-SR20 to the largest sprocket.



Chain length

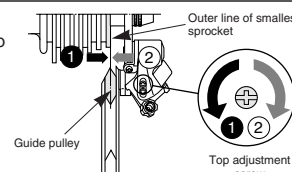
Add 2 links (with the chain on both the largest sprocket and the largest chainring)



Cable securing and stroke adjustment

1. Top adjustment

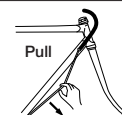
Turn the top adjustment screw to adjust so that the guide pulley is in line with the outer line of the smallest sprocket when looking from the rear.



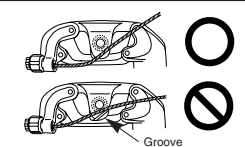
2. Connection and securing of cable

Connect the cable to the rear derailleur and, after taking up the initial slack in the cable, reattach to the rear derailleur as shown in the illustration. Secure the cable by pulling it with pliers with a force of 5 - 10 kg.

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

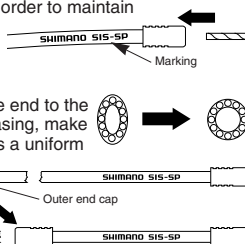


Note: Be sure that the cable is securely in the groove.



Inserting the inner cable

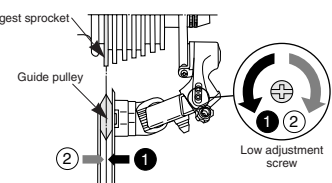
Insert the inner cable into the outer casing from the end with the marking on it. Apply grease from the end with the marking in order to maintain cable operating efficiency.



Cutting the outer casing

When cutting the outer casing, cut the opposite end to the end with the marking. 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.

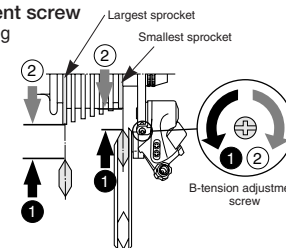


3. Low adjustment

Turn the low adjustment screw so that the guide pulley moves to a position directly in line with the largest sprocket.

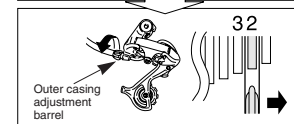
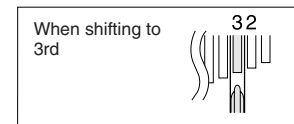
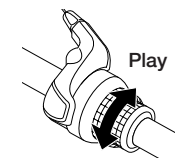
4. How to use the B-tension adjustment screw

Mount the chain on the smallest chainring and the largest sprocket, and turn the crank arm backward. Then turn the B-tension adjustment screw to adjust the guide pulley as close to the sprocket as possible but not so close that it touches. Next, set the chain to the smallest sprocket and repeat the above to make sure that the pulley does not touch the sprocket.

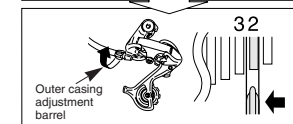
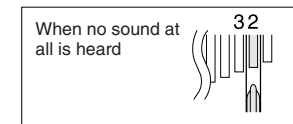


SIS Adjustment

Operate the shifting lever several times to move the chain to the 2nd sprocket. Then, while pressing the lever just enough to take up the play in the lever, turn the crank arm.



Tighten the outer cable adjusting barrel until the chain returns to the 2nd sprocket. (clockwise)



Loosen the outer casing adjustment barrel until the chain touches the 3rd sprocket and makes noise. (counter clockwise)

Best setting

The best setting is when the shifting lever is operated just enough to take up the play and the chain touches the 3rd sprocket and makes noise.

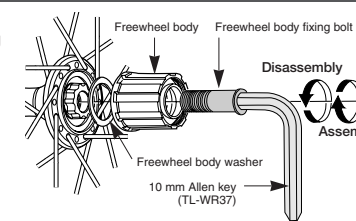
* Return the lever to its original position (the position where the lever is at the 2nd sprocket setting and it has been released) and then turn the crank arm clockwise. If the chain is touching the 3rd sprocket and making noise, turn the outer casing adjustment barrel clockwise slightly to tighten it until the noise stops and the chain runs smoothly.

Operate lever to change gears, and check that no noise occurs in any of the gear positions.

For the best SIS performance, periodically lubricate all power-transmission parts.

Replacement of the freewheel body

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



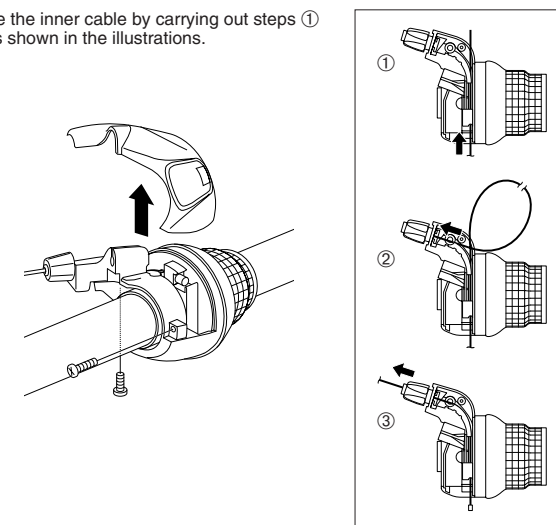
Note:

Do not attempt to disassemble the freewheel body, because it may result in a malfunction.

Tightening torque:
35 - 50 N·m {305 - 434 in. lbs.}

Replacing the inner cable



Replace the inner cable by carrying out steps ① to ③ as shown in the illustrations.



General Safety Information

WARNING

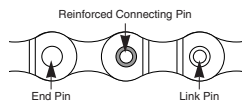
- Use neutral detergent to clean the chain. Do not use alkali-based or acid based detergent such as rust cleaners as it may result in damage and/or failure of the chain.
- Use the reinforced connecting pin only for connecting the narrow type of chain.
- There are two different types of reinforced connecting pins available. Be sure to check the table below before selecting which pin to use. If connecting pins other than reinforced connecting pins are used, or if a reinforced connecting pin or tool which is not suitable for the type of chain is used, sufficient connection force may not be obtained, which could cause the chain to break or fall off.

Chain	Reinforced connecting pin	Chain tool
9-speed super narrow chain such as CN-7701 / CN-HG93	 Silver	TL-CN32 / TL-CN23
8-/7-/6-speed narrow chain such as CN-HG50 / CN-HG51	 Black	TL-CN32 / TL-CN23

- If it is necessary to adjust the length of the chain due to a change in the number of sprocket teeth, make the cut at some other place than the place where the chain has been joined using a reinforced connecting pin or an end pin. The chain will be damaged if it is cut at a place where it has been joined with a reinforced connecting pin or an end pin.
- Check that the tension of the chain is correct and that the chain is not damaged. If the tension is too weak or the chain is damaged, the chain should be replaced. If this is not done, the chain may break and cause serious injury.
- 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.
- Obtain and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause injury to the rider.
- We strongly recommend only using genuine Shimano replacement parts.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

Note

- The reinforced connecting pins cannot be used with the UG chain, otherwise the connections will not move properly and noise will occur.
- 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.
- You should periodically clean the derailleur and lubricate all moving parts (mechanism and pulleys).
- If gear shifting adjustment cannot be carried out, check the degree of parallelism at the rear end of the bicycle. Also check if the cable is lubricated and if the outer casing is too long or too short.
- If you hear abnormal noise as a result of looseness in a pulley, you should replace the pulley.
- If the wheel becomes stiff and difficult to turn, you should lubricate it with grease.
- Do not apply any oil 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 an 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.
- Use an outer casing which still has some length to spare even when the handlebars are turned all the way to both sides. Furthermore, check that the shifting lever does not touch the bicycle frame when the handlebars are turned all the way.
- Grease the inner cable and the inside of the outer casing before use to ensure that they slide properly.
- Use a frame with internal cable routing is strongly discouraged as it has tendencies to impair the SIS shifting function due to its high cable resistance.
- Operation of the levers related to gear shifting should be made only when the front chainwheel is turning.
- For smooth operation, use the specified outer casing and bottom bracket cable guide.
- To ensure the best performance, be sure to use only the specified type of chain. The wide type chain cannot be used.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.
- Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer.



Technical Service Instructions

SI-6KP0A

Rear Drive System

SHIMANO
Tourney

In order to realize the best performance, we recommend that the following combination be used.

Series		Tourney			
Gears		7 - gears	6 - gears	7 - gears	6 - gears
Shifting lever	Right	SL-RS43-7	SL-RS43-6	SL-RS43-7	SL-RS43-6
Outer casing		SIS40	SIS40	SIS40	SIS40
Rear derailleur		RD-TX70/RD-TX50 RD-TX30	RD-TX70/RD-TX50 RD-TX30/RD-TY18	RD-TX70/RD-TX50 RD-TX30 RD-FT30	RD-TX70/RD-TX50 RD-TX30/RD-TY18 RD-FT30
Multiple freewheel		MF-TZ37/HG50 MF-HG37/TZ07	MF-HG40-6/HG22 MF-TZ06	MF-TZ37/TZ07 MF-HG50	MF-HG40-6/HG22 MF-TZ06
Chain		CN-HG50	CN-HG50	CN-HG50	CN-HG50
Bottom bracket cable guide		SM-SP18/BT18	SM-SP18/BT18	SM-SP18/BT18	SM-SP18/BT18

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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

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SHIMANO INC.
3-77 Oimatsu-cho, Sakai, Osaka 590-8577, Japan

Specifications

Shifting lever

Model number	SL-RS43-7	SL-RS43-6
Gears	SIS 7 - gears	SIS 6 - gears

Rear derailleur

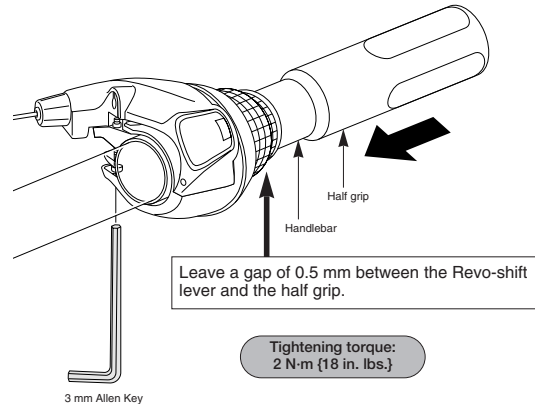
Model number	RD-TX70	RD-TX50	RD-TX30	RD-TY18	RD-FT30
Type	Smartcage	Smartcage	Smartcage	GS	SS
Gears	7 / 6	7 / 6	7 / 6	6	6
Total capacity	43T	43T	43T	34T	28T
Rear largest sprocket	28-34T	28-34T	28-34T	28T	28T
Rear smallest sprocket	11T	11T	11T	14T	14T
Front chainwheel tooth difference	20T	20T	20T	20T	13T

Sprocket tooth configurations

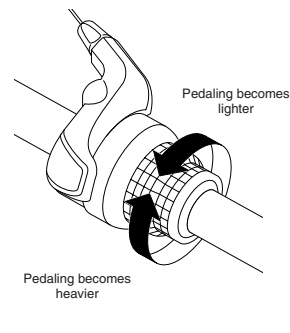
Gears	7	6
Tooth combination	14, 16, 18, 20, 22, 24, 34T 14, 16, 18, 20, 22, 24, 28T 13, 15, 17, 19, 21, 24, 34T	14, 16, 18, 21, 24, 34T 14, 16, 18, 21, 24, 28T

Mounting the shifting lever

Install the brake lever in a position where it will not obstruct brake operation. Do not use in a combination which causes brake operation to be obstructed.

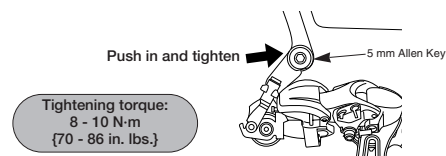


Gear shifting operation

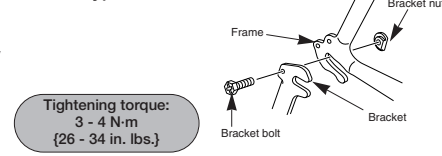


Installation of the rear derailleur

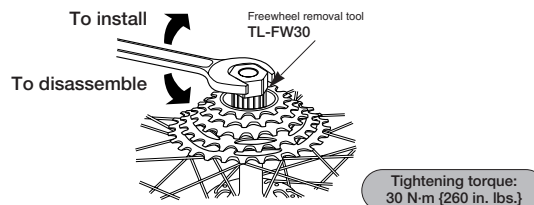
Direct-mount type



Bracket type



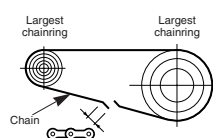
Installation of the freewheel



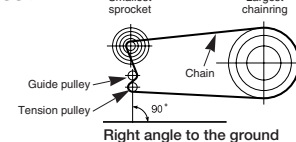
Chain length

< GS >

Add 2 links (with the chain on both the largest sprocket and the largest chainring)



< SS >



Cable securing and stroke adjustment

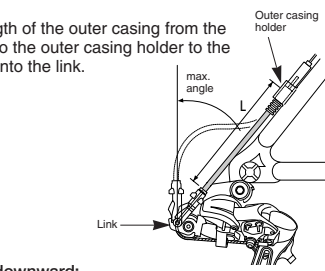
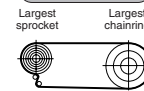
< RD-TX70 / RD-TX50 / RD-FT30 >

Place the outer casing so that it does not touch the basket and mudguard, otherwise it may cause a problem with the performance of the derailleur.

Set the outer casing (RD-TX70/RD-TX50/RD-FT30) so that its length is as follows.

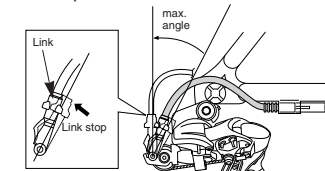
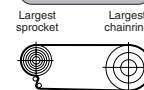
- If routing the casing upward:
(The chain should be on the largest chainring and on the largest sprocket.)
Add 10 mm to the length of the outer casing from the end that is inserted into the outer casing holder to the end which is inserted into the link.

Chain position



- If routing the casing downward:
(The chain should be on the largest chainring and on the largest sprocket.)
Set the length of the outer casing so that it describes a smooth arc, and so that the link stops in a position where there is a small gap between the link and the link stop.

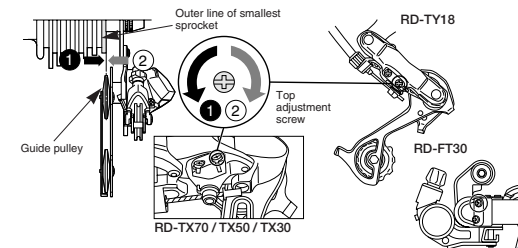
Chain position



Connect the inner cable to the derailleur as shown in the illustration.

1. Top adjustment

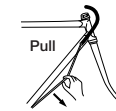
Turn the top adjustment screw to adjust so that the guide pulley is below the outer line of the smallest sprocket when looking from the rear.



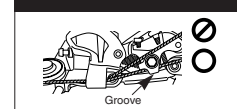
2. Connection and securing of cable

Connect the cable to the rear derailleur and, after taking up the initial slack in the cable, reattach to the rear derailleur as shown in the illustration. Secure the cable by pulling it with pliers with a force of 5 - 10 kg.

Tightening torque:
5 - 7 N·m (44 - 60 in. lbs.)



Note: Be sure that the cable is securely in the groove.



Inserting the inner cable

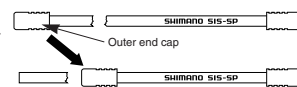
Insert the inner cable into the outer casing from the end with the marking on it. Apply grease from the end with the marking in order to maintain cable operating efficiency.



Cutting the outer casing

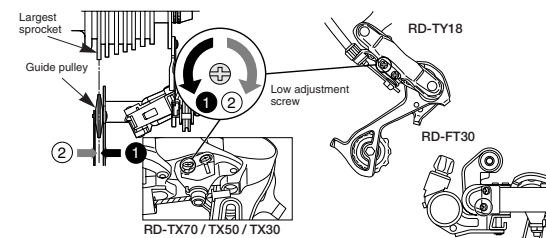
When cutting the outer casing, cut the opposite end to the end with the marking. After cutting the outer casing, make the end round so that the inside of the hole has a uniform diameter.

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



3. Low adjustment

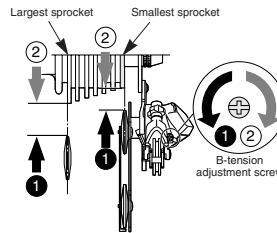
Turn the low adjustment screw so that the guide pulley moves to a position directly below the largest sprocket.



4. How to use the B-tension adjustment screw

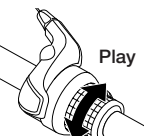
< RD-TX70 / RD-TX50 / RD-TX30 >

Mount the chain on the smallest chainring and the largest sprocket, and turn the crank arm backward. Then turn the B-tension adjustment screw to adjust the guide pulley as close to the sprocket as possible but not so close that it touches. Next, set the chain to the smallest sprocket and repeat the above to make sure that the pulley does not touch the sprocket.



SIS Adjustment

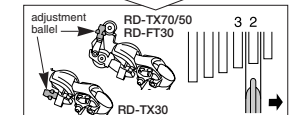
Operate the shifting lever several times to move the chain to the 2nd sprocket. Then, while pressing the lever just enough to take up the play in the lever, turn the crank arm.



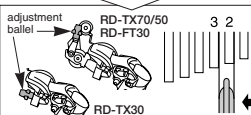
When shifting to 3rd



When no sound at all is heard



Tighten the outer cable adjusting barrel until the chain returns to the 2nd sprocket. (clockwise)



Loosen the outer casing adjustment barrel until the chain touches the 3rd sprocket and makes noise. (counter clockwise)

Best setting

The best setting is when the shifting lever is operated just enough to take up the play and the chain touches the 3rd sprocket and makes noise. * Return the lever to its original position (the position where the lever is at the 2nd sprocket setting and it has been released) and then turn the crank arm clockwise. If the chain is touching the 3rd sprocket and making noise, turn the outer casing adjustment barrel clockwise slightly to tighten it until the noise stops and the chain runs smoothly.

Operate lever to change gears, and check that no noise occurs in any of the gear positions.

For the best SIS performance, periodically lubricate all power-transmission parts.

Replacing the inner cable

Replace the inner cable by carrying out steps ① to ③ as shown in the illustrations.

