SR SUNTOUR

SERVICE MANUAL

Rear drive system

Thank you for choosing SR SUNTOUR products. In order to maximize the shifting performance, please kindly read this instruction sheet carefully before starting to use the SR Suntour drive train.

Key features

- Direct cable routing rear derailleur.
- Multi-compatible rear derailleur.
- Cable saver system Twist shifter.

Rear derailleur/shiftlever specifications

Front derailleur	Spring system	Compatible speed	Compatible shift lever
RD-DUROLUX-GTB	Top normal type	18S	SL-DURO18E
RD-DURO720-GXB			
RD-DUROLUX-SGX		27S	DSM-XCR61, DSC-NCX60, SL-DURO27E, ESP, Shimano
RD-DURO720-SGX			
RD-XCR750			DSM-XCR61, DSC-NCX60, TS-NCX600, ESP, Shimano
RD-XCR650			
RD-XCC550		PFS-18S / 24S	DSM-XCR51, DSC-NCX50, DSC-NRX850/800, TS-NCX500, ESP, Shimano
RD-XCC450		PFS-16S / 24S	DSM-XCR51, DSC-NCX50, DSC-NRX700, TS-NCX500, ESP, Shimano
RD-XR180-GXB(Z)		21S	Shimano, SRAM-MRX
RD-XR180-SSB(Z)		7S	

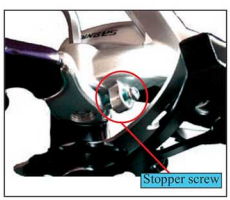
Rear cassette specifications

Rear cassette	Sprocket combination	Suggested chains
CS-DUROLUX95-S9	11/12/14/16/18/21/24/28/34T	Shimano: CN-HG73, CN-HG93 KMC: Z9000, Z9200, Z9900
CS-DUROLUX90-S9	11/12/14/16/18/21/24/28/32T	
CS-AXON-S9	11/12/14/16/18/21/24/28/32T	
CS-SPF75-S9	11/12/14/16/18/21/24/28/34T	
CS-SPF70-S9	11/12/14/16/18/21/24/28/32T	
CS-PF48-C8	11/13/15/18/21/24/28/34T	Shimano: CN-HG50, CN-IG31, CN-IG51 KMC: Z72, Z82, Z92
CS-PF44-C8	11/13/15/18/21/24/28/32T	
CS-PF41-C8	11/13/15/18/21/24/28/30T	
CS-PF302-C7	11/13/15/18/21/24/32T	Shimano: CN-HG50, CN-UG51 KMC: Z72, Z82, Z92
CS-PF32-C7	11/13/15/18/21/24/30T	
CS-PF30-C7	11/13/15/18/21/24/28T	

Rear derailleur installation

Tighten the mounting bolt of the rear derailleur with a 5mm allen wrench. Sugested tightening torque is 8 - 10Nm.
At this time, please be sure that the stopper screw of the rear derailleur to be put on the dropout derailleur stopper tab.





Control installation

Insert the control to the handle bar as described below.

Note

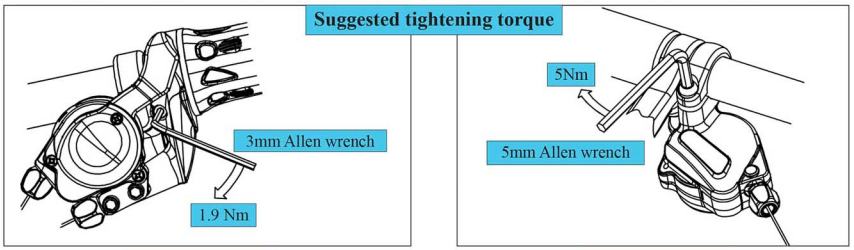
*DSC type controls

When using DSC type controls, please be sure to use the grip length that is more than 62mm for proper grip.

*TS type control

Before installing grips, be sure to put the 0.5mm slide washers between the controls and grips. After installing grips, adjust the position of the controls, making sure not to push them too hard against grips. Otherwise it may affect the shifting function and make the operation heavier.





DSM & DSC types

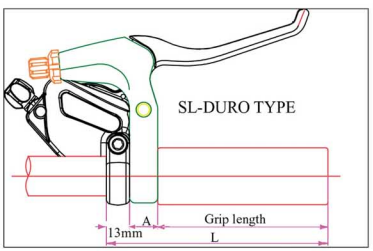
SL-DURO type

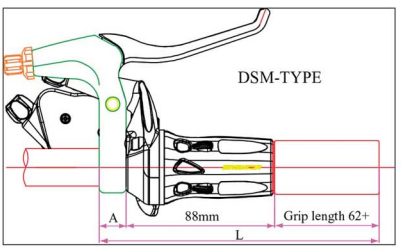
Handlebar dimension

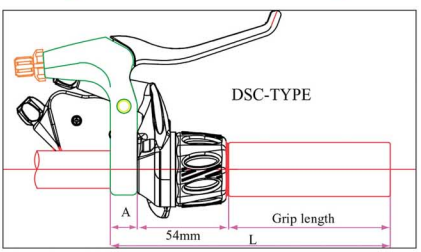
When using the SR SUNTOUR Control, it is necessary to maintain straight section „L“ at the handlebar ends as shown below. Please select handlebars according to the dimensions shown here.

	Straight section on „L“
SL-DURO type	13mm + Brake bracket size (A) + Grip length
DSM type	Brake bracket size (A) + 54mm + Grip length
DSC type	Brake bracket size (A) + 88mm + B (should be more than 62mm)
TS type	72mm + Grip length









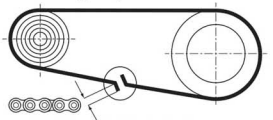
Chain length

In order to get maximum shifting performance, please follow the points below to determine the proper chain length.

Chainwheel: 42T, 44T, 46T or 48T outer ring

Rear largest sprocket: 30T or 32T

Add 4 links after putting the chain on the front and rear largest sprockets.

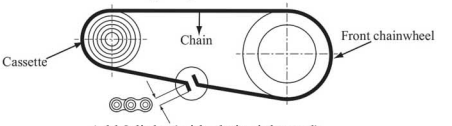


Add 4 links (with chain tightened)

Chainwheel: 42T, 44T, 46T or 48T outer ring

Rear largest sprocket: 34T

Add 2 links after putting the chain on the front and rear largest sprockets.



Add 2 links (with chain tightened)

Inner cable connection

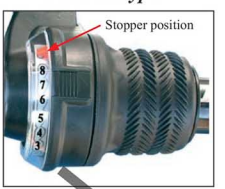
1. Setting the control to the stopper position as shown below.
2. After taking up the initial slack of cable, connect the inner cable to the rear derailleur.
4. Tighten the inner cable fixing bolt with a 5mm allen wrench. Suggested tightening torque: 5-7 Nm.

Control stopper position

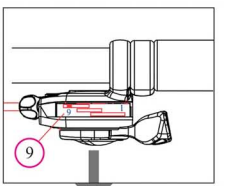
Shimano

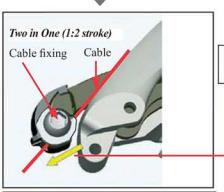
Please refer to the instruction sheet of the manufacturer

TS-NCX type



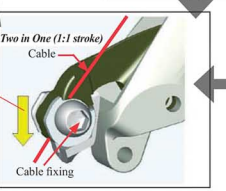
DSM/DSC types



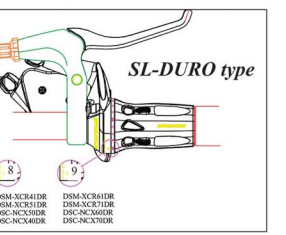


Two in one cable pull rear derailleur Top normal type (1:2 stroke)

Direction of cable routing



Two in one cable pull rear derailleur Top normal type (1:1 stroke)



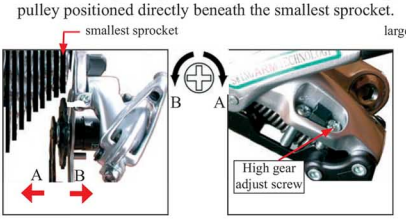
Index adjustment

Top normal type

1. Shifting range

Top side adjustment

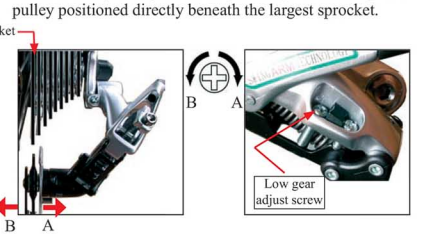
Turn the high gear adjust screw (right side) so that the guide pulley positioned directly beneath the smallest sprocket.



1. Shifting range

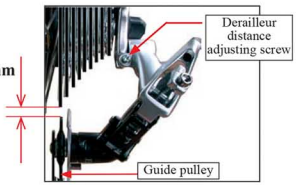
Low side adjustment

Turn the low gear adjust screw (left side) so that the guide pulley positioned directly beneath the largest sprocket.



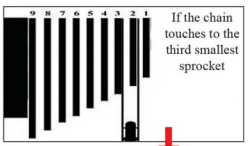
2. Angle adjustment

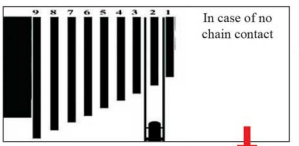
After setting to the largest sprocket, turn the derailleur adjusting screw so that the clearance between the guide pulley and the largest sprocket is 6-8mm



3. Index adjustment

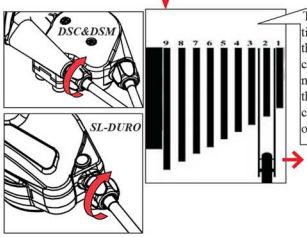
Set the control to move the chain from the smallest to the second smallest sprocket.

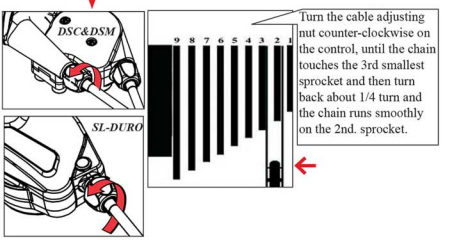




**** Warning !***

Be sure to adjust the low gear screw to avoid the derailleur's contacting the rear wheel spokes, which may cause problems.





Best setting

When the chain is on the 2nd smallest sprocket, increase the inner cable tension while turning the crank forward.
Stop turning the cable adjusting screw when the chain makes noise against the 3rd smallest sprocket and turn back by about 1/4 turn.

Control operation

When operating the controls, always be sure to turn the crank arm at the same time.

DSM, DSC, TS-NCX types

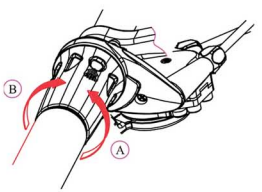
Rotate the movable grip to the (A) direction to shift from smaller sprocket to a larger sprocket and to the (B) direction to shift from a larger sprocket to a smaller sprocket.

SL-DURO type

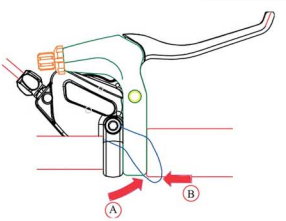
Push the lever one or more click(s) to the (A) direction to shift from smaller sprocket to a larger sprocket and to the (B) direction to shift from a larger sprocket to a smaller sprocket.



TS-NCX series



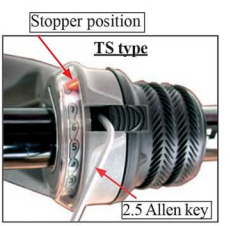
DSM, DSC, TS-NCX types



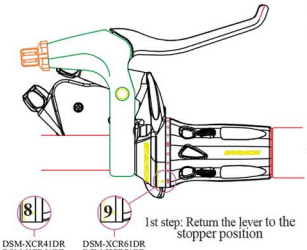
SL-DURO type

Replacing the inner cable

1, Return the control to stopper position (where the cable has no more tension).
2. Open the cable replacement port, by moving the cap towards the handlebar grip.
3. Loosen the cap screw counter-clockwise with a 2.5mm Allen wrench.
4. Push out the old inner cable, and install the new inner cable.
   At this time, check to see if the twist shifter is at the stopper position.
5. Tighten the cap screw clockwise with a 2.5mm Allen wrench.
   Suggested tightening torque is 0.5Nm.
6. Close the cable replacement port.



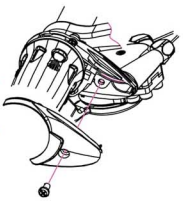
Replacing the inner cable



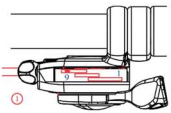
DSM-XCR41DR
DSM-XCR51DR
DSC-NCX50DR
DSC-NCX40DR

DSM-XCR61DR
DSM-XCR71DR
DSC-NCX60DR
DSC-NCX70DR

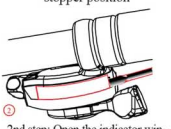
1st step: Return the lever to the stopper position



2nd step: Remove the protection cover, using a cross (Philips) screwdriver to remove the screw.



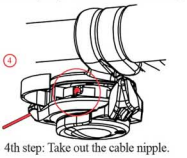
1st step: Return the lever to the stopper position



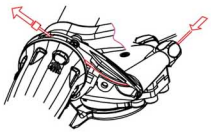
2nd step: Open the indicator window, using a flat screwdriver.



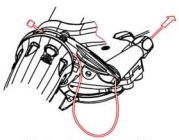
3rd step: Open the indicator window,



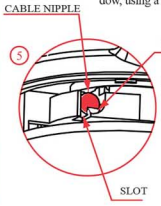
4th step: Take out the cable nipple.



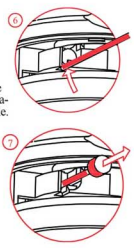
3rd step: take out the old cable.



4th step: insert a new cable.



5th step: Push down the nipple stopper, in order to release the cable nipple - take out the old cable.



LIMITED WARRANTY

SR SUNTOUR warrants the drive train to be free from defects in materials and workmanship under normal use for a period of two years from the date of purchase. In no event shall this limited warranty apply to any defect of the drive train caused by: improper installation, disassembly, reassembly, intentional breakage or damage, alterations or modifications to the drive train by the user or other party or any unreasonable use or abuse of the product or any use for which this product was not intended.
The obligation of this limited warranty shall be limited to repairing or replacing the drive train or any part for which there is a defect in materials or workmanship during the two years following the date of purchase. To validate this limited warranty the purchaser must submit this warranty card to SR SUNTOUR within 30 days after purchase of the drive train. Any alteration of, or tampering with the warranty card automatically terminates this limited warranty.
SR SUNTOUR makes no express or implied warranties of fitness or merchatability of any kind, except as set forth above. SR SUNTOUR's liability hereunder is expressly limited to repair or replacement of the product. Under no circumstances will SR SUNTOUR be liable for incidental or consequential damages. Some jurisdictions do not allow the exclusion or limitation of liability of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific rights and you may have other rights which vary from jurisdiction to jurisdiction.

Drive Train Warranty Card:

Date of purchase: _____ Model name _____

Term of limited warranty: Two years from the date of purchase

Dealer Name: _____ Phone#: _____

Address: _____

Purchaser Name: _____ Phone#: _____

Address: _____

This warranty is void without proof of purchase.

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