

GENUINE PARTS CATALOGUE 2023

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SHIMANO

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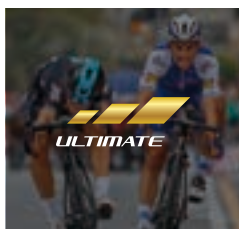
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SHIMANO

Benefits of SHIMANO Genuine Parts

- SHIMANO system components: Made to work together in perfect harmony.
- No compromise: SHIMANO Genuine Parts precisely match SHIMANO systems.
- The highest quality standards for maximum fitting accuracy, reliability and safety.
- Retain value: SHIMANO Genuine Parts help retain your bicycle's value.
- Always state of the art: Our parts are constantly updated in line with series development.

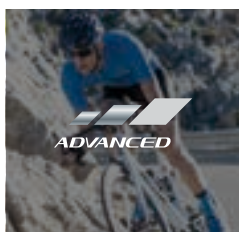
GRADES OF THE GENUINE PARTS



ULTIMATE

Leading-edge technology for the highest level of riding.

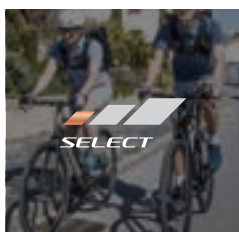
Advantage functions for a faster, smoother and practically stress-free ride. Ultimate performance is attained by taking advantage of the leading-edge technology.



ADVANCED

Advanced functions for serious riders.

Stable riding performance for a comfortable, reliable and smooth ride.



SELECT

SHIMANO standard functions for smooth riding.

Smooth reliable riding. High-quality SHIMANO basic components provide reliable functions.

CONTENTS

BRAKE SYSTEM

DISC BRAKE PADS	4
DISC BRAKE ROTORS	8
DISC BRAKE HOSE	10
DISC BRAKE PAD & BLEED SPACER	11
DISC BRAKE MOUNT ADAPTER	11
BRAKE SHOES	14

SHIFTING/BRAKE CABLE SYSTEMS

SHIFTING CABLES	21
BRAKE CABLES	24

DRIVE SYSTEM

CHAINRINGS	30
BOTTOM BRACKET	41
CHAINS	43
CASSETTE SPROCKETS	46
REAR DERAILLEUR	51
FRONT DERAILLEUR	52
QUICK RELEASE	52
E-THRU AXLE	53
BALL BEARING	53
FREEWHEEL BODY	54

WORKSHOP

WORKSHOP	55
----------	----

TOOLS

TOOLS	58
-------	----

OTHERS

CLEATS	74
SHOE REPAIR PARTS	77
ACCESSORIES FOR ELECTRONIC PRODUCTS	80
BRACKET COVERS	84

INFORMATION

SERVICE TIPS	85
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BRAKE SYSTEM

Integrated braking system for maximum control and consistent performance.



ROAD

MTB

DISC BRAKE PADS

Stopping power rating

*** Average
**** Above average
***** High power

Metal pads

More braking power and durability

Resin pads

Less noise and better modulation

Radiator fin

Provides long pad life and less fade by cooling technology

BIKE RATED

Improved resin material

- Consistently smooth and quiet braking operation
- Predictable braking power

Technical features for SHIMANO disc brake pad

Resin pad

- Flexible compound
- Less noise
- Focus on controllable performance
- Designed for dry and wet conditions



New resin friction material

- Consistently smooth and quiet braking operation
- Predictable braking power

The durability of the resin pad has increased by 40% from MY19 (3rd generation). In addition, with this change (5th generation), the durability has been further increased by 50%. This change only applied to the brake pad for the 2-piston brake caliper.



Metal pad

- Rigid compound
- Longer service life
- High power in severe conditions
- Designed for muddy and sandy conditions

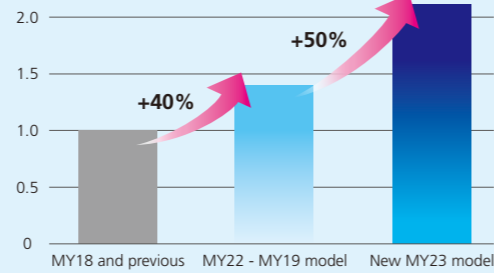


How to read model no.

① ② ③ ④ ⑤
L05A-RF

① Pad shape
② Lining generation
③ Back plate material A= Alloy S= Stainless Ti= Titanium C= Composite (Alloy & Stainless)
④ Lining material R= Resin M= Metal
⑤ With or without radiator fin X= Without fin F= With fin

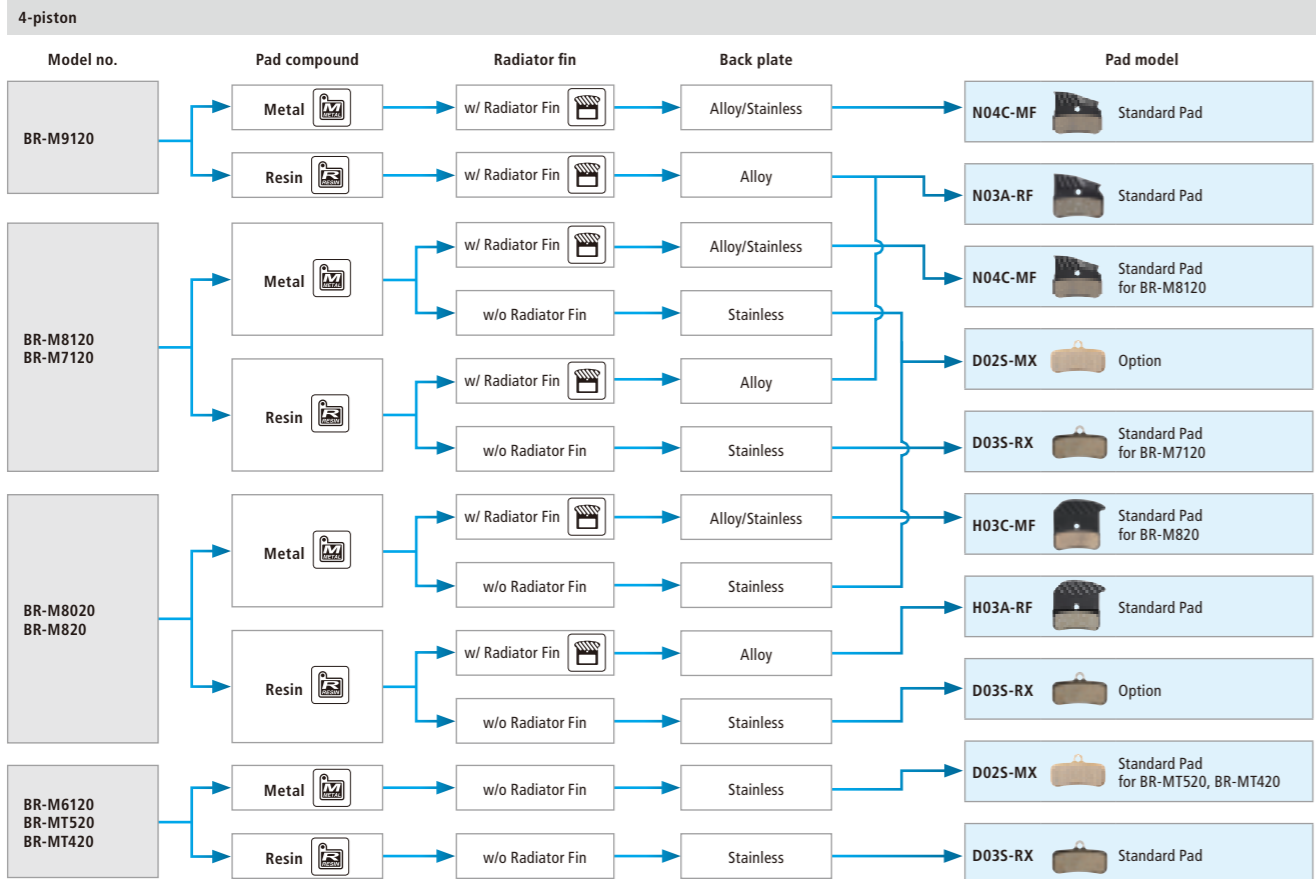
Pad life comparison



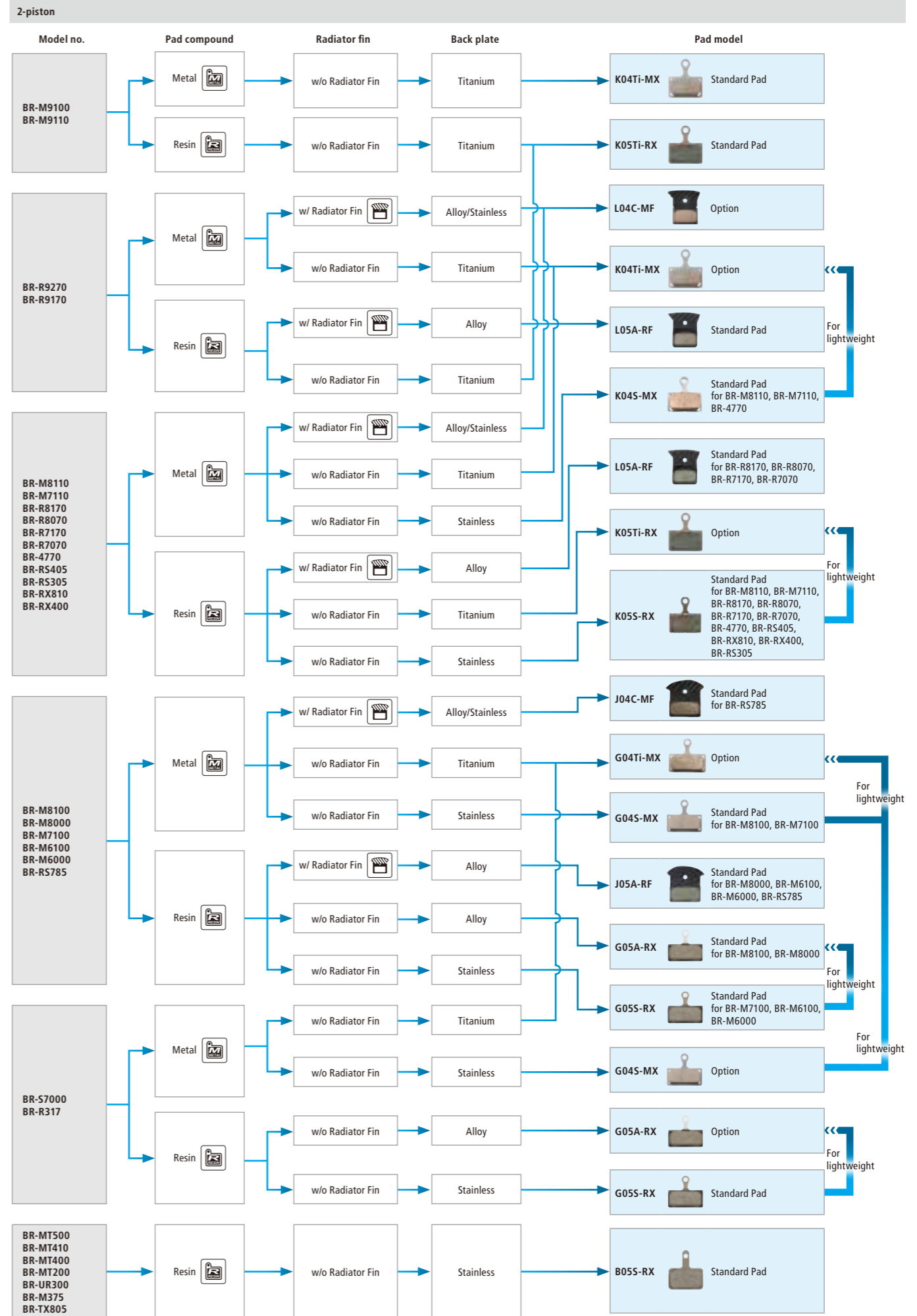
Resin disc brake pad

Previous model	Current model	New model
	40% durability up against old model	50% durability up against current model
B01S	B03S	B05S-RX
G02A	G03A	G05A-RX
G02S	G03S	G05S-RX
J02A	J03A	J05A-RF
K02Ti	K03Ti	K05Ti-RX
K02S	K03S	K05S-RX
L02A	L03A	L05A-RF
D01S	D03S-RX	-
H01A	H03A-RF	-
-	N03A-RF	-

Disc brake pad selection chart



Disc brake pad selection chart



Pad characteristics

Model no.	B05S	M05	Model no.	G04Ti	G04S
Type	Resin	Resin	Type	Metal	Metal
Pad Shape Wide type			Pad Shape Narrow type		
Model no.	G05A	G05S	Model no.	J04C	J05A
Type	Resin	Resin	Type	Metal	Resin
Pad Shape Narrow type			Pad Shape Narrow type		
Model no.	K04Ti	K04S	Model no.	K05Ti	K05S
Type	Metal	Metal	Type	Resin	Resin
Pad Shape Narrow type			Pad Shape Narrow type		
Model no.	L04C	L05A	Model no.	D02S	D03S
Type	Metal	Resin	Type	Metal	Resin
Pad Shape Narrow type			Pad Shape Narrow type		
Model no.	H03C	H03A	Model no.	N04C	N03A
Type	Metal	Resin	Type	Metal	Resin
Pad Shape Narrow type			Pad Shape Narrow type		
Model no.	M06				
Type	Metal				
Pad Shape Narrow type					

Disc brake pads

	E-Bike	Model No.	Pad type	Piston	Material			Series	Compatibility model	Remark	Code no. 1 pair	Code no. 25 pair	Code no. 50 pair
		B05S-RX	Wide	2-Piston	*Resin	-	****	SHIMANO	BR-C501, BR-M575, BR-M525, BR-M495, BR-M486, BR-M485, BR-M475, BR-M465, BR-M447, BR-M446, BR-M445, BR-M416, BR-M416A, BR-M415, BR-M4050, BR-M3050, BR-M395, BR-M375, BR-M365, BR-M355, BR-M315, BR-T675, BR-T615, BR-TX805, BR-MT500, BR-MT410, BR-MT400, BR-MT200, BR-UR300	3 type split pins included	EBPB05SRXA	EBPB05SRXB	EBPB05SRXC
		G04Ti-MX			Metal	-	*****	XTR, DEORE XT, SLX, ALFINE, SHIMANO			Y8LW98010 IBPG04TIMXA	-	-
		G04S-MX	Narrow	2-Piston	Metal	-	*****				Y8MY98010 IBPG04SMXA	-	-
		G05A-RX			*Resin	-	****				Y2R298010 EBPG05ARXA	Y2R298011 EBPG05ARXB	Y2R298012 EBPG05ARXC
		G05S-RX			*Resin	-	****				Y2S398010 EBPG05SRXA	Y2S398011 EBPG05SRXB	-
		J04C-MF	Narrow	2-Piston	Metal	X	*****	XTR, DEORE XT, SLX, ALFINE, SHIMANO	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-M6100, BR-M6000, BR-M615, BR-S7000, BR-S700, BR-CX77, BR-R5785, BR-R785		Y8LW98030 IBPJ04CMFA	Y8LW98031 IBPJ04CMFB	-
		J05A-RF			*Resin	X	****				Y2R298020 EBPJ05ARFA	Y2R298021 EBPJ05ARFB	-
		K04Ti-MX			Metal	-	*****	XTR (M9100, M9110), DEORE XT, SLX, DURA-ACE, ULTEGRA, SHIMANO 105, TIAGRA, GRX, SHIMANO	BR-M9100, BR-M9110, BR-M8110, BR-R9270, BR-R8170, BR-R7170, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400		Y8PU98020 IBPK04TIMXA	-	-
		K04S-MX	Narrow	2-Piston	Metal	-	*****				Y8N398020 IBPK04SMXA	-	-
		K05Ti-RX			*Resin	-	****				Y8PU98050 IBPK05TIRXA	-	-
		K05S-RX			*Resin	-	****				Y2GM98030 EBPK05SRXA	-	-
		L04C-MF	Narrow	2-Piston	Metal	X	*****	DEORE XT (M8110), SLX (M7110), DURA-ACE, ULTEGRA, SHIMANO 105, TIAGRA, GRX, SHIMANO	BR-M8110, BR-M7110, BR-R9270, BR-R8170, BR-R7170, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400		Y8N398040 IBPL04CMFA	-	-
		L05A-RF			*Resin	X	****				Y2EM98010 EBPL05ARFA	Y2EM98011 EBPL05ARFB	-
		D02S-MX	Narrow	4-Piston	Metal	-	*****	DEORE XT, SLX, DEORE, SAINT, ZEE, SHIMANO	BR-M8120, BR-M7120, BR-M6120, BR-M8020, BR-M820, BR-M810, BR-M640, BR-MT520, BR-MT420		Y8FF98010 IBPD02SMXA	-	-
		D03S-RX			Resin	-	****				Y1XM98010 EBPD03SRXA	Y1XM98011 EBPD03SRXB	-
		H03C-MF	Narrow	4-Piston	Metal	X	*****	DEORE XT, SAINT, ZEE	BR-M8020, BR-M820, BR-M640		Y8VT98020 IBPH03CMFA	-	-
		H03A-RF			Resin	X	****				Y1XM98020 EBPH03ARFA	-	-
		N04C-MF	Narrow	4-Piston	Metal	X	*****	XTR, DEORE XT, SLX	BR-M9120, BR-M8120, BR-M7120		Y1XD98020 IBPN04CMFA	-	-
		N03A-RF			Resin	X	****				Y1XD98010 EBPN03ARFA	-	-
		M05-RX	Wide	2-Piston	Resin	-	****	SHIMANO	BR-C601, BR-M515, BR-M515LA		Y8B698010 IBPM05RXA	-	-
		M04-RX	Narrow	2-Piston	Resin	-	****	DEORE XT	BR-M755		Y8B298090 IBPM04RXA	-	-
		M06-MX	Narrow	2-Piston	Metal	-	*****	XTR, DEORE XT, SLX, DEORE	BR-M975, BR-M966, BR-M965, BR-M800, BR-M776, BR-M775, BR-M765, BR-M665, BR-M601, BR-M596, BR-M595, BR-M585, BR-M545, BR-M535, BR-R505, BR-T665, BR-T605		Y8CL98010 IBPM06MXA	-	-

*New resin: 50% durability up

DISC BRAKE HOSE



Brake hose rigidity



ROAD MTB

Disc brake hose							
	Model no.	Series	Connection		Note	Code no.	
*1	SM-BH90-SBLS	SAINT	Straight - Banjo		Black 1,000 mm	ISMBH90SBLSL100	*****
Black 1,700 mm					ISMBH90SBLSL170		
Black 2,000 mm					ISMBH90SBLSL200		
*1	SM-BH90-SBLS	DEORE XT (BR-M8020)	Straight - Banjo		Black 1,000 mm	ISMBH90SBLSL100B	*****
Black 1,700 mm					ISMBH90SBLSL170B		
Black 2,000 mm					ISMBH90SBLSL200B		
*2	SM-BH90-SBS	ZEE	Straight - Banjo		Black 1,000 mm	ISMBH90SBSL100	*****
Black 1,700 mm					ISMBH90SBSL170		
Black 2,000 mm					ISMBH90SBSL200		
	SM-BH90-SBM	XTR DEORE XT SLX	Straight - Banjo		Black 1,000 mm	ISMBH90SBML100	*****
					Black 1,700 mm	ISMBH90SBML170	
					Black 2,000 mm	ISMBH90SBML200	
	SM-BH90-SBM	XTR (BR-M9120) DEORE XT (BR-M8100/M8120) SLX (BR-M7100/M7120)	Straight - Banjo		Black 1,000 mm	ISMBH90SBMLL100A	*****
					Black 1,700 mm	ISMBH90SBMLL170A	
					Black 2,000 mm	ISMBH90SBMLL200A	
	SM-BH90-SBM	XTR (BR-M9000) DEORE XT (BR-M8000) SLX (BR-M7000)	Straight - Banjo		Black 1,000 mm	ISMBH90SBML100A	*****
					Black 1,700 mm	ISMBH90SBML170A	
					Black 2,000 mm	ISMBH90SBML200A	
*3	SM-BH90-SB	XTR (M987,M985) DEORE XT ALFINE SLX	Straight - Banjo		Black 1,000 mm	ISMBH90SBL100	*****
					Black 1,700 mm	ISMBH90SBL170	
					Black 2,000 mm	ISMBH90SBL200	
	SM-BH90-JK-SSR	DURA-ACE ULTEGRA SHIMANO 105 TIAGRA GRX	Straight - Straight		Black 1,000 mm	ISMBH90JKSSL100	*****
					Black 1,700 mm	ISMBH90JKSSL170	
	SM-BH90-SS	XTR (BR-M9100,M9110) DEORE XT (M8110) SLX (M7110) DEORE DEORE LX BR-MT520	Straight - Straight		Black 1,000 mm	ESMBH90SSL100	*****
					Black 1,700 mm	ESMBH90SSL170	
					Black 2,000 mm	ESMBH90SSL200	
*3	SM-BH59-SB	SHIMANO BR-R785	Straight - Banjo		Black 1,000 mm	ISMBH59SBL100	***
					Black 1,700 mm	ISMBH59SBL170	
	SM-BH59-JK-SS	SHIMANO MTB	Straight - Straight		Black 1,000 mm	ESMBH59JKL100	***
					Black 1,700 mm	ESMBH59JKL170	
					Black 2,000 mm	ESMBH59JKL200	
	SM-BH59-JK-SS	SHIMANO ROAD	Straight - Straight		Black 1,000 mm	ISMBH59JKSSL100	***
					Black 1,700 mm	ISMBH59JKSSL170	

*1 : Longer banjo, Short bolt *2 : Normal banjo, Short bolt *3 : Normal banjo, Normal bolt *4 : Connecting insert pin for SM-BH90

DISC BRAKE PAD & BLEED SPACER







Pad Spacer		
Code no.	Model no.	
Y8J709000	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-RS785, BR-R785, BR-S700	
Y8CL12000	BR-M975, BR-M966, BR-M965, BR-M800, BR-M776, BR-M775, BR-M765, BR-M665, BR-M601, BR-M596, BR-M595, BR-M585, BR-M535, BR-S501, BR-S500, BR-T665, BR-T605	
Y8J506000	BR-M447, BR-M446, BR-M445, BR-M4050, BR-M395, BR-M355, BR-M3050, BR-T675, BR-T615	
Y8FF18000	BR-M9120, BR-M8020, BR-M820, BR-M810, BR-M640	
Y84E03000	BR-M6000, BR-M615	
Y8C515000	BR-M575, BR-M525, BR-M486, BR-M485	
NEW Y8PE03000	BR-M6100, BR-MT500, BR-MT410, BR-MT400, BR-MT200, BR-UR300, BR-S7000	
Y8N218000	BR-R9270, BR-R8170, BR-R7170, BR-M9100, BR-M9110, BR-M8110, BR-M7110, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RX810, BR-RX400, BR-RS805, BR-RS505, BR-RS405, BR-U5000	
Y1Y003000	BR-M8120, BR-M7120, BR-M6120, BR-MT520, BR-MT420	


Bleed Spacer		
Code no.	Model no.	
Y8J712000	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-RS785, BR-R785, BR-S700	
Y8FZ05000	BR-M575, BR-M486, BR-M485, BR-M447, BR-M446, BR-M445, BR-M4050, BR-M395, BR-M365, BR-M355, BR-M315, BR-M3050, BR-MT500, BR-MT410, BR-MT200, BR-T675, BR-T615, BR-UR300	
Y8FF19000	BR-M9120, BR-M8120, BR-M8020, BR-M7120, BR-M6120, BR-M820, BR-M810, BR-M640, BR-MT520, BR-MT420	
Y8J712100	BR-M6100, BR-M6000, BR-M615, BR-S7000	
Y8N219000	BR-M9100, BR-M9110, BR-M8110, BR-M7110, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RX810, BR-RX400, BR-RS805, BR-RS505, BR-RS405, BR-U5000	
Y2HW15000	BR-R9270, BR-R8170, BR-R7170	




DISC BRAKE MOUNT ADAPTER



For postmount caliper								
Performance indicator	Fork and frame mount style	Disc brake rotor size						
		140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)	220 mm (LL)		
	Front	Post mount	140 mm direct	Direct mount	ISMMA90F180PPC	-	-	-
			160 mm direct	-	Direct mount	ISMMA90F180PPC	-	-
			180 mm direct	-	-	Direct mount	ISMMA90F203PPM	-
			203 mm direct	-	-	-	Direct mount	-
	International A-standard			-	ISMMA90F160PS	-	-	-
	Rear	Post mount	140 mm direct	Direct mount	ISMMA90F180PPC	-	-	-
			160 mm direct	-	Direct mount	ISMMA90F180PPC	-	-
			180 mm direct	-	-	Direct mount	ISMMA90F203PPM	-
			203 mm direct	-	-	-	Direct mount	-
	International A-standard			ISMMA90R140PS	ISMMA90R160PS	ISMMA90R180PS	-	-
	Front	Post mount	140 mm direct	Direct mount	ESMMAF180PP2A	-	-	-
			160 mm direct	-	Direct mount	ESMMAF180PP2A	ESMMAF203PPA	-
			180 mm direct	-	-	Direct mount	ESMMAF203PPMA	ESMMAF220PPM
			200 mm direct	-	-	-	ESMMAF203PPL2	ESMMAF220PPL2
			203 mm direct	-	-	-	Direct mount	ESMMAF220PPL
	International A-standard			-	ISMMAF160PSA	ISMMAF180PSA	ISMMAF203PSA	-
	Flat mount			ISMMAF140PDA	ISMMAF160PDA	-	-	-
	Rear	Post mount	140 mm direct	Direct mount	ESMMAF180PP2A	-	-	-
			160 mm direct	-	Direct mount	ESMMAF180PP2A	ISMMAF203PPA	-
			180 mm direct	-	-	Direct mount	ESMMAF203PPMA	ESMMAF220PPM
200 mm direct			-	-	-	ESMMAF203PPL2	ESMMAF220PPL2	
203 mm direct			-	-	-	Direct mount	ESMMAF220PPL	
International A-standard			-	ISMMAF160PSA	ISMMAF180PSA	ISMMAF203PSA	-	
Flat mount			ISMMAF140PDH	ISMMAF160PDH	-	-	-	





*Only includes converter fixing bolt for mount thickness 25 mm. Refer to page 13 for bolts for different mount thicknesses.

For international A-standard caliper									
Performance indicator	Fork and frame mount style		Disc brake rotor size						
			140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)	220 mm (LL)		
		Front	Post mount	-	-	ISMMAF180SPA	ISMMAF203SPA	-	-
		Front	International A-standard	-	Direct mount	ISMMAF180SSA	ISMMAF203SSA	-	-
		Rear	International A-standard	-	Direct mount	ISMMAR180SSA	ISMMAR203SSA	-	-

Disc brake rotor adapter			
Model no.	Remark	Code no.	
	To be used for installing a 6-bolt type disc brake rotor to CENTER LOCK system hub/wheel.	ESMRTAD05	

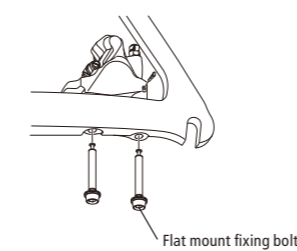
Lock ring for 15 mm E-THRU/20 mm Thru		
Remark	Code no.	
	Y26L98030	
	Y24698030	
	Y8JX98020	

For flat mount caliper									
Performance indicator	Fork and frame mount style		Disc brake rotor size						
			140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)	220 mm (LL)		
		Rear	140 mm direct	Direct mount	ISMMAR160DDDB	-	-	-	-

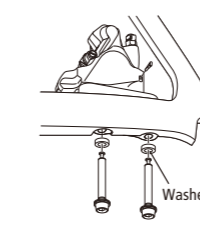
Converter for flat frame and postmount caliper									
Performance indicator	Fork and frame mount style		Disc brake rotor size						
			140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)			
		Front	140 mm flat mount	ISMMAF140PDA	ISMMAF160PDA	-	-	-	-
		Rear	140 mm flat mount	ISMMAR140PDH	ISMMAR160PDH	-	-	-	-

Mounting flat mount type brake caliper on the bicycle frame

In case of using 140 mm disc brake rotor for rear disc brake



In case of using 160 mm disc brake rotor for rear disc brake



Flat mount fixing bolt length (mm)



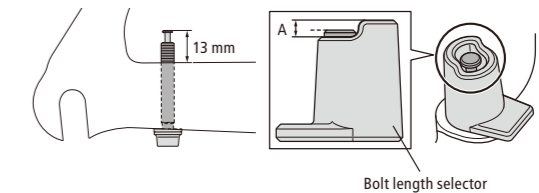
Fixing bolt for flat mount			
Frame thickness	Bolt length	Unit (pcs)	Code no.
10 mm	23 mm	1	Y8N208000*2
15 mm	28 mm	1	Y8N208050*2
20 mm	33 mm	1	Y8N208010*2
25 mm	38 mm	1	Y8N208020*1
30 mm	43 mm	1	Y8N208030*2
35 mm	48 mm	1	Y8N208040*2

Bolts for 25 mm thick frames are included with converters. Other bolts lengths are sold separately.

*1 Included in flat mount type brake caliper

*2 Not included in brake caliper

How to identify the optimal bolt length using the bolt length selector.



Insert the adapter fixing bolt into the frame mount area, and make sure that the length of the protruding part is 13 mm.

Note:

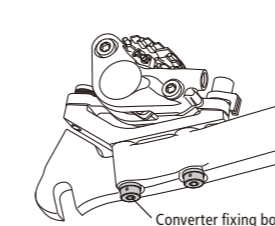
- When using a bolt length selector, make sure that the tip of the bolt fits within range A.
- When checking the length of the bolt, do not use a washer.
- The same bolts are used whether attaching the caliper directly to the frame or using the 140 to 160 mount adapter.



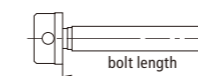
Including rear caliper

Bolt length selector	
Code no.	Description
Y8N221000	Bolt length selector

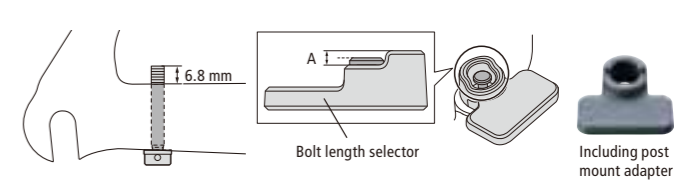
Mounting post mount type brake caliper with flat mount converter on the bicycle frame



Converter fixing bolt length (mm)



How to identify the optimal bolt length using the bolt length selector.



Insert the adapter fixing bolt into the frame mount area, and make sure that the length of the protruding part is 6.8 mm.

Note:

- When using a bolt length selector, make sure that the tip of the bolt fits within range A.
- When checking the length of the bolt, do not use a washer.

Converter fixing bolt length		
Frame thickness	Bolt length	Code no.
10 mm	16.8 mm	Y81743100*2
15 mm	21.8 mm	Y81743150*2
20 mm	26.8 mm	Y81743200*2
25 mm	31.8 mm	Y81743250*1
30 mm	36.8 mm	Y81743300*2
35 mm	41.8 mm	Y81743350*2

Bolts for 25 mm thick frames are included with converters. Other bolts lengths are sold separately.

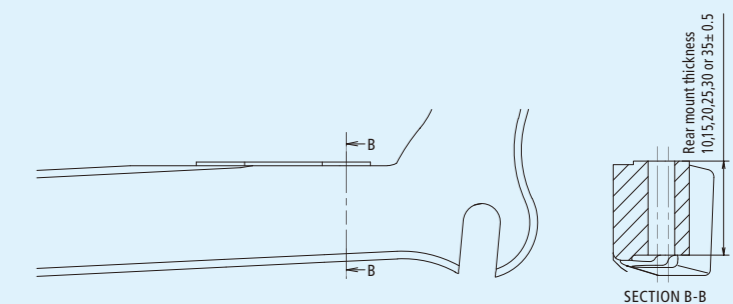
*1 Included in mount converter SM-MA-R140P/D (ISMMAR140PDH), SM-MA-R160P/D (ISMMAR160PDH)

*2 Not included in mount converter


Service Tips

Rear mount thickness


Frames using the flat mount system will come with chain stays of different thicknesses which are determined by the manufacturer. They can be 10, 15, 20, 25, 30 and 35 mm. Bolt lengths for the appropriate frame thickness must be used.




BRAKE SHOES




For caliper brake
Caliper brake shoes




For direct mount brake
Caliper brake shoes




For V-BRAKE
V-BRAKE shoes




For cantilever brake
Cantilever brake shoes




Stopping power rating
*** Average
**** Above average
***** High power




For aluminum rim
Standard shoes for
aluminum rims




For machined rim
Low rim wear compound is
specifically designed for
machined rim





For carbon rim
Designed specifically for
carbon rims and resists
frictional heat



For ceramic rim
Hard compound is
specifically designed for
ceramic rims



Soft compound
Reduces rim wear

ROAD MTB

Road Brake Shoes

Cartridge type shoes set

Image	Model no.	Series	Icon								Compatibility model	Remark	Unit (pair)	Code no.
			Direct	Standard	Carbon	Ceramic	Soft compound	Aluminum	Machined	Ceramic				
	R55C4 (BR-R9210-F/BR-R9110)	DURA-ACE	-	X	-	X	-	-	-	-	BR-R9210-F, BR-R9110, BR-9010, BR-R8010, BR-6810, BR-5810, BR-5710	Cartridge included	1	Y8L398020
	R55C4 (BR-R9200/BR-R9210-RS/BR-R9100)	DURA-ACE	X	-	-	X	-	-	-	-	BR-R9200, BR-R9210-RS, BR-R9110-RS, BR-R9100, BR-9010, BR-9000, BR-7900, BR-7800, BR-7700, BR-R8010-RS, BR-R8000, BR-6800, BR-6700, BR-6600, BR-6500, BR-5800, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560	Cartridge included	1	Y8L298050
	R55C4 (BR-R8110-F/BR-R5811-R)	ULTEGRA	-	X	-	X	-	-	-	-	BR-R8110-F, BR-R5811-R	Cartridge included	1	Y2J498010
	R55C4 (BR-R8100/BR-R8110-RS)	ULTEGRA	X	-	-	X	-	-	-	-	BR-R8100, BR-R8110-RS	Cartridge included	1	Y2J398010
	R55C4 (BR-R8010)	ULTEGRA	-	X	-	X	-	-	-	-	BR-R8010, BR-6810, BR-5810, BR-5710	Cartridge included	1	Y8LB98010
	R55C4 (BR-R8000)	ULTEGRA	X	-	-	X	-	-	-	-	BR-R8010-RS, BR-R8000, BR-6810, BR-6800, BR-6700, BR-6600, BR-6500, BR-5800, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560	Cartridge included	1	Y8LA98030
	R55C4 (BR-R7000) Silver	SHIMANO 105	X	-	-	X	-	-	-	-	BR-R7000, BR-5800, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560	Cartridge included	1	Y8ZJ98010
	R55C4 (BR-R7000) Black	SHIMANO 105	X	-	-	X	-	-	-	-	BR-R7000, BR-5800, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560	Cartridge included	1	Y88T98020
	R55C4 (BR-R7010)	SHIMANO 105	-	X	-	X	-	-	-	-	BR-R7010, BR-5810, BR-5710	Cartridge included	1	Y8LJ98010

Brake shoes for cartridge type

Image	Model no.	Series	Icon								Compatibility model	Remark	Unit (pair)	Code no.
			Direct	Standard	Carbon	Ceramic	Soft compound	Aluminum	Machined	Ceramic				
	R55C4	DURA-ACE ULTEGRA SHIMANO 105	X	X	X	X	-	-	-	-	BR-R9210-F, BR-R9210-RS, BR-R9200, BR-R9110, BR-R9100, BR-9010, BR-9000, BR-7900, BR-7800, BR-7700, BR-R8110, BR-R8100, BR-R5811R, BR-R8010, BR-R8000, BR-R7000, BR-6810, BR-6800, BR-6700, BR-6600, BR-6500, BR-5810, BR-5800, BR-5710, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560, BR-CX70		1	Y8L298060
	R55C4 (2 pair)			2	Y8L298062									
	R55C+1	DURA-ACE ULTEGRA SHIMANO 105	X	-	X	X	-	-	-	X	BR-9000, BR-7900, BR-7800, BR-7700, BR-6800, BR-6700, BR-6600, BR-6500, BR-5800, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560, BR-CX70	Less wear of rim	1	Y8FA98130
	R55C+1 (2 pair)			2	Y8FA98132									
	R55C4-A for carbon rim (1 mm thinner shoe)	DURA-ACE ULTEGRA SHIMANO 105	X	X	X	-	-	X	-	-	BR-R9210-F, BR-R9210-RS, BR-R9200, BR-R9110, BR-R9100, BR-9010, BR-9000, BR-7900, BR-7800, BR-7700, BR-R8110, BR-R8100, BR-R5811R, BR-R8010, BR-R8000, BR-6810, BR-6800, BR-6700, BR-6600, BR-6500, BR-R7000, BR-5810, BR-5800, BR-5710, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560, BR-CX70	For carbon wide rim (19-28 mm) only	1	Y8PP98060
	R55C4 for carbon rim	DURA-ACE ULTEGRA SHIMANO 105	X	X	X	-	-	X	-	-	BR-R9210-F, BR-R9210-RS, BR-R9200, BR-R9110, BR-R9100, BR-9010, BR-9000, BR-7900, BR-7800, BR-7700, BR-R8110, BR-R8100, BR-R5811R, BR-R8010, BR-R8000, BR-6810, BR-6800, BR-6700, BR-6600, BR-6500, BR-R7000, BR-5810, BR-5800, BR-5710, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560, BR-CX70	For carbon rim only	1	Y8L298070
	R55C4 for carbon rim (2 pair)			2	Y8L298072									
	R55C ceramic	DURA-ACE ULTEGRA SHIMANO 105	X	-	X	-	-	-	X	-	BR-R9200, BR-R9100, BR-9000, BR-7900, BR-7800, BR-7700, BR-R8100, BR-R8000, BR-6800, BR-6700, BR-6600, BR-6500, BR-5800, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560, BR-CX70	For ceramic rim only	1	Y8FA98150
	R55C ceramic (2 pair)			2	Y8FA98152									


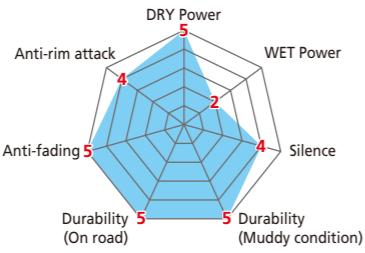
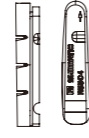
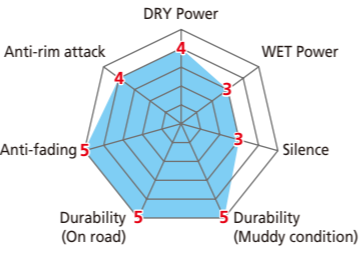
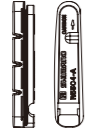
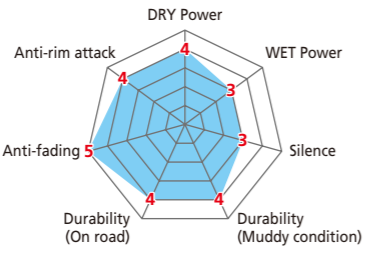
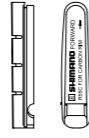
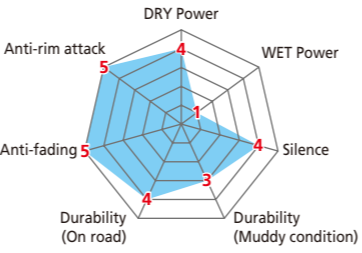
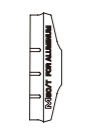
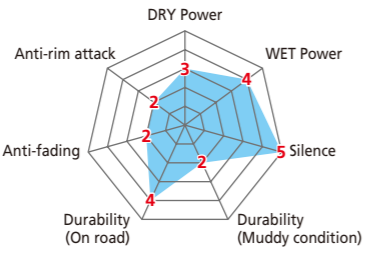
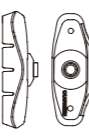
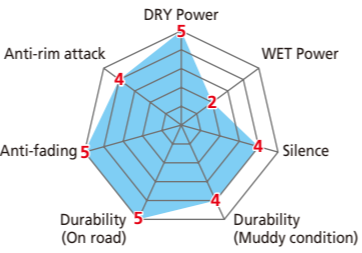
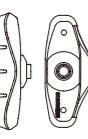
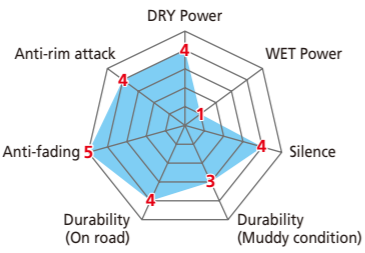
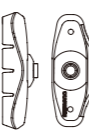
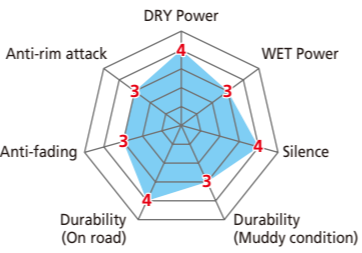
Brake shoes

Image	Model no.	Series	Icon								Compatibility model	Remark	Unit (pair)	Code no.
			Direct	Standard	Carbon	Ceramic	Soft compound	Aluminum	Machined	Ceramic				
	BR-6403		X	-	-	X	-	-	-	-	BR-6403, BR-4400, BR-3300, BR-1055, BR-A550, BR-A450, BR-A416, BR-A410, BR-A350, BR-A250		5	Y83G98010
	R50T2 (BR-4600)	TIAGRA SORA	X	-	-	X	-	-	-	-	BR-4600, BR-4500, BR-3500, BR-3400, BR-2400, BR-R451, BR-R450		5	Y8JY98070
	M50T			10	Y8BC98100									
	R50T2 (BR-CX50)		-	-	X	X	-	-	-	-	BR-CX50	(L) Bolts & Washers (M) Bolts & Washers (S) Bolts & Washers	1	Y8K598020 Y8K598030 Y8K598040
	R50T4	TIAGRA SORA	X	-	-	-	X	-	-	-	BR-4700, BR-4600, BR-4500, BR-R3500, BR-3400, BR-3000, BR-R2000, BR-2400, BR-R451, BR-R450		5	Y8L998010
	R50T5			5	Y8MG98090									

Power and control


Always use SHIMANO brake shoes to ensure top brake performance and maintain the safety of your SHIMANO brake system. SHIMANO's racing brake cartridges provide the ideal hardness for high stopping power combined with great levels of control.

Shoe characteristics





Model no.				Model no.			
R55C4				R55C4 For Carbon Rim			
Cartridge type	X			Cartridge type	X		
Recommended rim	Aluminum			Recommended rim	Carbon		
Model no.				Model no.			
R55C4-A For Carbon Rim				R55C+1			
Cartridge type	X			Cartridge type	X		
Recommended rim	Carbon			Recommended rim	Aluminum		
Model no.				Model no.			
M50T				R50T5			
Cartridge type	-			Cartridge type	-		
Recommended rim	Aluminum			Recommended rim	Aluminum		
Model no.				Model no.			
R50T2				R50T4			
Cartridge type	-			Cartridge type	-		
Recommended rim	Aluminum			Recommended rim	Aluminum		

MTB Brake Shoes






Cartridge type shoes set

Image	Model no.	Series	Icon						Compatibility model	Remark	Unit (pair)	Code no.
	M70R2 (BR-M770)	DEORE XT	X	-	*****	X	-	-	BR-M770, BR-M760, BR-M750, BR-M739, BR-M600, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-T670, BR-T660, BR-T610, BR-T4010, BR-T4000, BR-T300, BR-MX70, BR-MC18	Cartridge included	1	Y8EM9802A
	S70C (BR-M770)	DEORE XT	X	-	****	X	-	-	BR-M770, BR-M760, BR-M750, BR-M739, BR-M600, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-T780, BR-T670, BR-T660, BR-T610, BR-T4010, BR-T4000, BR-T300, BR-MX70, BR-MC18	Cartridge included	1	Y8EM9801A

Brake shoes for cartridge type

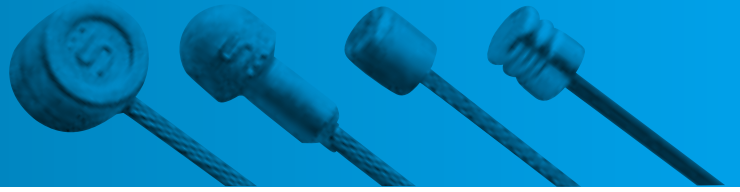
Image	Model no.	Series	Icon						Compatibility model	Remark	Unit (pair)	Code no.
	M70R2 severe	XTR DEORE XT DEORE LX DEORE DXR	X	-	*****	X	-	-	BR-M970, BR-M960, BR-M951, BR-M950, BR-M770, BR-M760, BR-M750, BR-M739, BR-M600, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-R550, BR-T670, BR-T660, BR-T610, BR-T4010, BR-T4000, BR-T300, BR-MX70, BR-MC18		1	Y8AA98200
	M70R2 severe (2 pair)										2	Y8AA98212
	S70C (severe)	XTR DEORE XT DEORE LX DEORE DXR	X	X	***	X	-	-	BR-M770, BR-M760, BR-M750, BR-M739, BR-M600, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-R550, BR-T780, BR-T670, BR-T660, BR-T610, BR-T4010, BR-T4000, BR-T300, BR-MX70, BR-MC18		1	Y8A298030
	S70C (severe) (2 pair)										2	Y8A298032
	M70CT4 (severe)	XTR DEORE XT DEORE LX DEORE DXR	X	X	****	-	X	-	BR-M970, BR-M960, BR-M951, BR-M950, BR-M770, BR-M760, BR-M750, BR-M739, BR-M600, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-R573, BR-R550, BR-R463, BR-T780, BR-T670, BR-T660, BR-T610, BR-T300, BR-MX70, BR-MC18		1	Y8A298060
	M70CT4 (severe) (2 pair)										2	Y8A298062
	R55C (BR-F700/F800)	CAPREO	X	-	***	X	-	-	BR-F800, BR-F700		1	Y8CU98020

Brake shoes

	Model no.	Series	Icon						Compatibility model	Remark	Unit (pair)	Code no.
 M70T3	M70T4		X	-	****	X	-	-	BR-M760, BR-M750, BR-M739, BR-M600, BR-M590, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-T660, BR-T610, BR-T4010, BR-T4000, BR-T300, BR-MX70, BR-MC18		1	Y8BM9803A
	M70T3	DEORE LX DEORE	X	-	****	-	X	-	BR-M760, BR-M750, BR-M739, BR-M600, BR-M590, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-T660, BR-T610, BR-T4010, BR-T4000, BR-T300, BR-MX70, BR-MC18		1	Y8BM9810A
 S70T	S70T		X	-	***	X	-	-	BR-M760, BR-M750, BR-M739, BR-M600, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-T660, BR-T610, BR-T4010, BR-T4000, BR-T300, BR-MX70, BR-MC18		1	Y8GV9801A
 S65T	S65T		X	-	***	X	-	-	BR-M422, BR-M421, BR-M420, BR-M330, BR-T4000		10	Y8GP9810A
 M70T2	M70T2		X	X	****	X	-	-	BR-M280, BR-MC40, BR-MC16, BR-T400		10	Y8CF98100
 M65T	M65T		-	X	***	X	-	-	BR-M561, BR-M560, BR-M290-E, BR-M290, BR-MC32-E, BR-MC32, BR-MC31-CH, BR-MC31, BR-MC30-CH, BR-MC30, BR-MC15, BR-MC12, BR-MC12-E, BR-MC11, BR-MC10, BR-CT91, BR-CT90, BR-CT51, BR-CT50, BR-CT21, BR-CT20, BR-TY23, BR-TY22, BR-TY21, BR-TY20, BR-MJ10, BR-MJ05		5	Y84F98100
	BR-CT91		-	X	***	X	-	-	BR-CT91, BR-CT90-E, BR-CT90, BR-CT51, BR-CT50, BR-CT21, BR-CT20, BR-TY23, BR-TY22, BR-TY21, BR-TY20, BR-MJ10, BR-MJ05-E, BR-MJ05		10	Y8GK98100

SHIFTING/BRAKE CABLE SYSTEMS

At the heart of performance and control.



CABLES

SHIFTING CABLES



ROAD

MTB

BRAKE CABLES



ROAD

MTB



SLR-EV
SLR-EV system reduce the sliding resistance to achieve lighter and quick operation



SLR
SLR system realizes the reduction of friction in the caliper, lever, and cable



Polymer coating
Polymer coated inner cables reduce the sliding resistance to achieve lighter and quick operation



OPTISLICK
Improves cable routing efficiency and provides excellent corrosion resistance



SIL-TEC coating
SIL-TEC coating provides long lasting smooth shifting performance



Low friction
Cables are formed with curved surface for low friction



SUS
Anti-rust
Stainless steel cable for anti-rust protection



Silicone grease
SIS SP41 is pre-lubricated with a special silicone grease for light-action shifting



Mud resistance
Sealed end caps to minimize mud contamination



Shifter cable end



MTB brake cable end



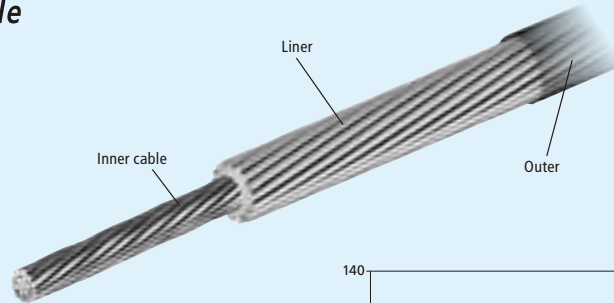
Road brake cable end



Polymer Coated Cable

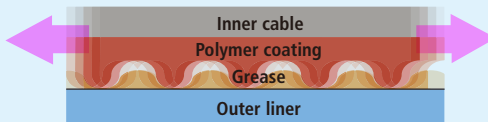
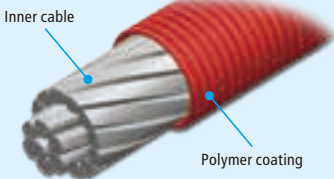
Leading-edge technology for the highest level of riding

The secret is polymer coating that when viewed under a microscope looks like a series of tubes wrapped around the cable. This means less surface area rubbing the internal housing liner and it holds grease longer.

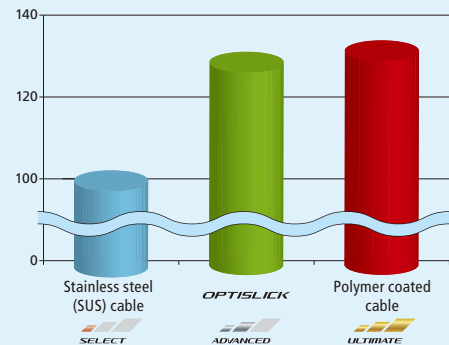


Recommended for internal cable routing

Polymer coated cable



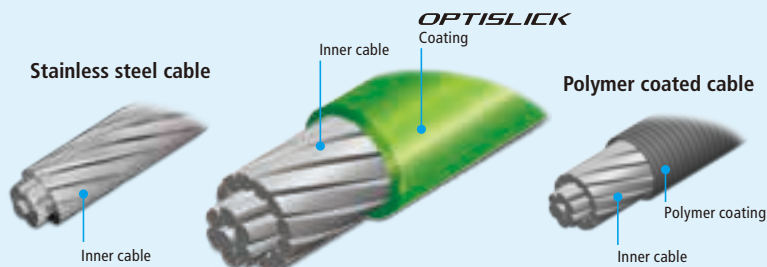
Efficiency comparison bar graph (Stainless steel (SUS)=100)



OPTISLICK

Advanced functions for the serious riding

OPTISLICK cables feature a minimal and uniform electrically coated layer that improves cable routing efficiency and provides excellent corrosion resistance.



Recommended for internal cable routing



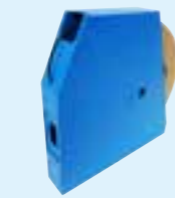
SHIMANO cable dispensers

Cable dispenser refills are now available. Buying refills for your cable dispenser is much more economical than re-buying the brown outer box. Mechanics will also find this solution much easier to work with. The new cable dispenser significantly reduces friction when cables are pulled out. For availability of cable dispensers, please ask your local SHIMANO distributor.

Cable dispenser with roll

The products below are available for cable dispensers.

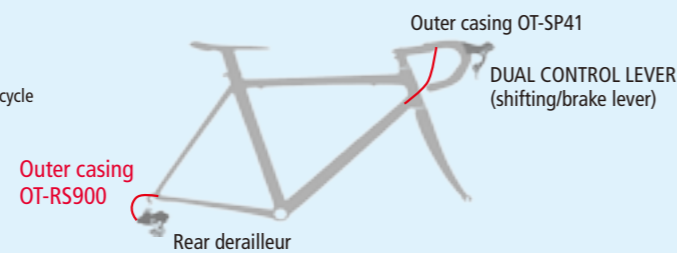
Product	With brown outer box		Without brown outer box	
	Product	Color	Code	Code
Shift cable	OT-SP41	Black 50 m	Y60098580	Y6009858A
	BC-9000	Black 40 m	Y8YZA0489	Y8YZA048B
Brake Cable	SLR	Black 40 m	Y80900011	Y8090001A
	M-SYSTEM	Black 40 m	Y80900013	Y8090001B



Cable dispenser
Model no. SH-MK-06-30

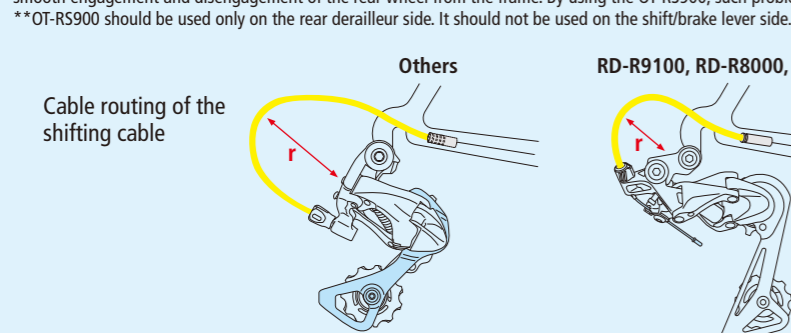
OT-RS900

RD-R9100, RD-R8000, RD-RX800 and RD-R7000 must be assembled on the bicycle with a special outer casing, OT-RS900.



Purpose of OT-RS900

The radius (r) of the curved cable that is routed from the bicycle frame to the RD-R9100 become smaller compared to the radius generated with other rear derailleurs, as indicated in the images below. The commonly used outer casing, OT-SP41, is too stiff for such small radius that it could cause technical problems on the adjustment barrel and disturb quick and smooth engagement and disengagement of the rear wheel from the frame. By using the OT-RS900, such problems can be avoided as the stiffness is reduced on OT-RS900.



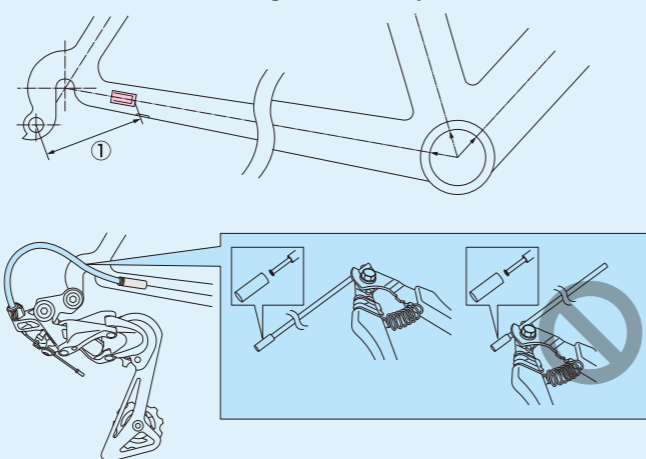
The OT-RS900 and OT-SP41 can be distinguished by the logo on the outside.



Assembly of OT-RS900

The length of the OT-RS900 should be adjusted appropriately based on the bicycle frame dimension. It is important for maintaining optimum performance. OT-RS900 should be cut from the correct side when adjusting the length. One of the two ends is flare processed. This flare processed end goes into the adjust barrel of the derailleur, thus it should remain.

Built-in wire routing (For Road 11-speed)

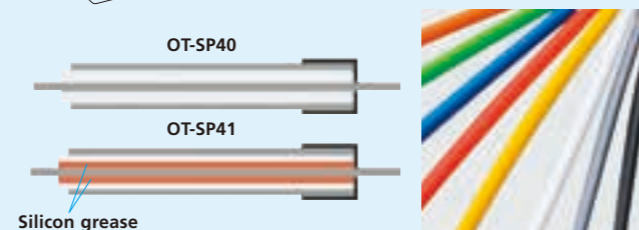


Outer casing length (mm)	Outer casing	Dimension ①							
		40 mm	50 mm	60 mm	80 mm	100 mm	125 mm	150 mm	
	OT-RS900	110	130	150	170	200	220	240	

OT-SP41

With OT-SP41 the entire length of the outer casing is pre-lubricated with a special silicone grease for quick and precise shifting performance. OT-SP41 maximally reduces the inner cable friction to provide quick response to operations and easy/effortless shifting. Moreover, power loss due to delay in shifting and fatigue by shifting especially when you ride on the terrain with many ups and downs as well as a long distance is also reduced.

8 color options are also available for outer casing to meet many requests.



8 color options

Road/MTB shifting inner cables

	Performance indicator	Product name	Icon	Description	Code no.
	ULTIMATE	Polymer coated shifting inner cable	Polymer, SUS, SUS+	<ul style="list-style-type: none"> Polymer coating ø 1.2 mm x 2,100 mm incl. inner end cap Outer cap with long tongue (2 pcs.) Cover with tongue for rear derailleur (1 pc.) 	Y63Z98950
	ADVANCED	OPTISLICK shifting inner cable	SUS, SUS+	<ul style="list-style-type: none"> Polymer coating ø 1.2 mm x 2,500 mm incl. inner end cap Outer cap with long tongue (2 pcs.) Cover with tongue for rear derailleur (1 pc.) 	Y63Z98970
	SELECT	Stainless steel shifting inner cable	SUS, SUS+	<ul style="list-style-type: none"> Stainless steel ø 1.2 mm x 2,100 mm incl. inner end cap 	Y60198100
	SELECT	Stainless steel shifting inner cable for tandem	SUS, SUS+	<ul style="list-style-type: none"> Stainless steel ø 1.2 mm x 3,000 mm incl. inner end cap 	Y60030014
		Steel shifting inner cable		<ul style="list-style-type: none"> Steel ø 1.2 mm x 2,100 mm 10 pack sets 	Y60098100

Road shifting cable sets

OT-SP41 polymer coated shifting cable sets (OT-RS900 is included)

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> ø 1.2 mm x 2,100 mm (1 pc.) ø 1.2 mm x 1,800 mm (1 pc.) Polymer coating Stainless steel 	ULTIMATE	<ul style="list-style-type: none"> Outer cap with short tongue for ST (2 pcs.) Outer cap with long tongue (3 pcs.) Sealed outer cap for rear derailleur (1 pc.) Inner end cap (2 pcs.) Cover with tongue for rear derailleur (1 pc.) Outer cap for front derailleur in case of full outer casing routing (1 pc.) 	<ul style="list-style-type: none"> OT-SP41 1,700 mm OT-RS900 (1 pc.) 	Polymer, SUS, SUS+	<ul style="list-style-type: none"> Black White Red High-tech gray 	<ul style="list-style-type: none"> Y08M98010 Y08M98020 Y08M98030 Y08M98040

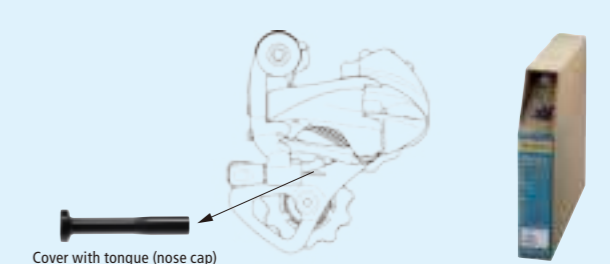
OT-SP41 polymer coated shifting cable sets

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> ø 1.2 mm x 2,100 mm (1 pc.) ø 1.2 mm x 1,800 mm (1 pc.) Polymer coating Stainless steel 	ULTIMATE	<ul style="list-style-type: none"> Outer cap with short tongue for ST (2 pcs.) Outer cap with long tongue (3 pcs.) Sealed outer cap for rear derailleur (1 pc.) Inner end cap (2 pcs.) Cover with tongue for rear derailleur (1 pc.) 	<ul style="list-style-type: none"> OT-SP41 1,700 mm 	Polymer, SUS, SUS+	<ul style="list-style-type: none"> Black White Red High-tech gray Blue Yellow Lime green Orange 	<ul style="list-style-type: none"> Y63Z98910 Y63Z98920 Y63Z98930 Y63Z98940 Y63Z98991 Y63Z98992 Y63Z98990 Y63Z98980





Service Tips





Cover with tongue (nose cap)



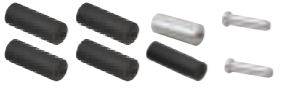

The covers with tongue that come with 12-speed and 11-speed rear derailleurs are there to keep the cables looking nice and cut down on the fuzziness. They are designed to be replaced with the cable, and every polymer coated cable we sell comes with a replacement cover with tongue in the package. File boxes come with a bag of them taped to the front.







Cover with tongue (nose cap)





OT-SP41 OPTISLICK shifting cable sets (OT-RS900 is included)						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm (1 pc.) • ø 1.2 mm x 1,800 mm (1 pc.) • OPTISLICK • Stainless steel 		<ul style="list-style-type: none"> • Outer cap with short tongue for ST (2 pcs.) • SIS-SP40 outer caps (3 pcs.) • SIS-SP40 sealed outer caps (1 pc.) • Inner end caps (2 pcs.) 	<ul style="list-style-type: none"> • OT-SP41 1,700 mm • OT-RS900 (1 pc.) 		Black	Y8ZG98090
					White	Y8ZG98100
					Red	Y8ZG98110
					High-tech gray	Y8ZG98120





OT-SP41 OPTISLICK shifting cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm (1 pc.) • ø 1.2 mm x 1,800 mm (1 pc.) • OPTISLICK • Stainless steel 		<ul style="list-style-type: none"> • Outer cap with short tongue for ST (2 pcs.) • SIS-SP40 outer caps (3 pcs.) • SIS-SP40 sealed outer caps (1 pc.) • Inner end caps (2 pcs.) 	<ul style="list-style-type: none"> • OT-SP41 1,700 mm 		Black	Y60198010
					White	Y60198030
					Red	Y60198040
					High-tech gray	Y60198020
					Blue	Y60198070
					Yellow	Y60198080
					Lime green	Y60198060
					Orange	Y60198050





OT-SP41 Stainless steel shifting cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • Stainless steel inner 2,100 mm (2 pcs.) 		<ul style="list-style-type: none"> • SIS-SP40 outer caps (4 pcs.) • SIS-SP40 sealed outer caps (1 pc.) • OT-SP41 sealed outer cap for rear derailleur (1 pc.) • Inner end caps (2 pcs.) 	<ul style="list-style-type: none"> • OT-SP41 1,700 mm 		Black	Y60098022



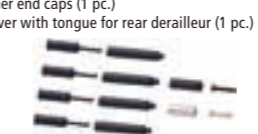

OT-SIS40 Steel shifting cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • Steel inner 2,100 mm (2 pcs.) 		<ul style="list-style-type: none"> • Inner end caps (2 pcs.) • SIS-SP40 outer caps (6 pcs.) 	<ul style="list-style-type: none"> • OT-SIS40 1,700 mm 		Black	Y60098501



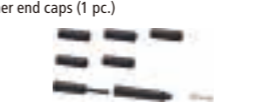

MTB shifting cable sets



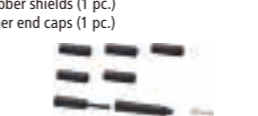

OT-SP41 Polymer coated shifting cable sets for triple/double chainring bikes						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm • ø 1.2 mm x 1,800 mm • Polymer coating • Stainless steel 		<ul style="list-style-type: none"> • Sealed outer caps, plastic (2 pcs.) • Sealed outer caps, aluminum (2 pcs.) • Sealed outer caps nose (7 pcs.) • Rubber shields (7 pcs.) • Inner end caps (2 pcs.) • Cover with tongue for front/rear derailleur (2 pcs.) 	<ul style="list-style-type: none"> • OT-SP41 3,300 mm 		Black	Y01V98110

OT-SP41 OPTISLICK shifting cable sets for triple/double chainrings bike (Also works for dropper seat post)						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm • ø 1.2 mm x 1,800 mm • OPTISLICK • Stainless steel 		<ul style="list-style-type: none"> • Sealed outer caps, plastic (9 pcs.) • Sealed outer cap nose (1 pc.) • Rubber shield (1 pc.) • Inner end caps (2 pcs.) 	<ul style="list-style-type: none"> • OT-SP41 3,300 mm 		Black	Y60198090

OT-SP41 Stainless steel shifting cable sets for triple/double chainring bikes						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm • ø 1.2 mm x 1,800 mm • Stainless steel 		<ul style="list-style-type: none"> • Sealed outer caps, plastic (9 pcs.) • Sealed outer cap nose (1 pc.) • Rubber shield (1 pc.) • Inner end caps (2 pcs.) 	<ul style="list-style-type: none"> • OT-SP41 3,000 mm 		Black	Y60098021

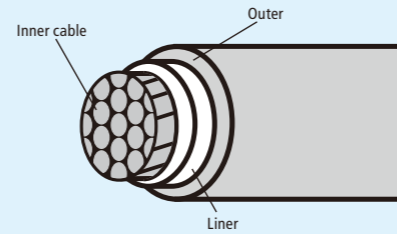
OT-SP41 Polymer coated shifting cable sets for single chainring bikes						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm • Polymer coating • Stainless steel 		<ul style="list-style-type: none"> • Sealed outer caps, plastic (1 pc.) • Sealed outer caps, aluminum (1 pc.) • Sealed outer caps nose (4 pcs.) • Rubber shields (4 pcs.) • Inner end caps (1 pc.) • Cover with tongue for rear derailleur (1 pc.) 	<ul style="list-style-type: none"> • OT-SP41 2,000 mm 		Black	Y01V98112

OT-SP41 OPTISLICK shifting cable sets for single chainring bike (Also works for dropper seat post)						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm • OPTISLICK • Stainless steel 		<ul style="list-style-type: none"> • Sealed outer caps, plastic (5 pcs.) • Sealed outer caps nose (1 pc.) • Rubber shields (1 pc.) • Inner end caps (1 pc.) 	<ul style="list-style-type: none"> • OT-SP41 2,000 mm 		Black	Y60198092

OT-SP41 Stainless steel shifting cable sets for single chainring bikes						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm • Stainless steel 		<ul style="list-style-type: none"> • Sealed outer caps, plastic (5 pcs.) • Sealed outer caps nose (1 pc.) • Rubber shields (1 pc.) • Inner end caps (1 pc.) 	<ul style="list-style-type: none"> • OT-SP41 2,000 mm 		Black	Y60098023

Brake outer casing types:

BC-9000 : SLR-EV brake outer casing for road bikes - uses a super slick inner liner that is also lubricated with special grease
 SLR : Brake outer casing for road bikes - uses a hard inner liner to stiffen the housing and create a road tune
 M-System : Brake outer casing for MTB - uses a soft inner liner to increase flexibility of the housing, increase modulation, and create a mountain bike tune



Brake inner cable types:

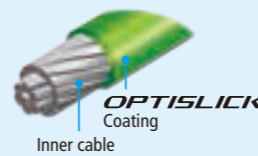
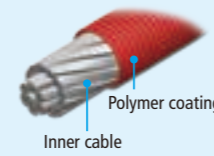
ULTIMATE Polymer coated brake inner cable
 Leading-edge technology for the highest level of riding

Polymer coated cable

SIL-TEC coating

Stainless steel cable

ADVANCED SIL-TEC coated brake inner cable
 Advanced functions for the serious riding



SELECT Stainless steel brake inner cable
 SHIMANO standard functions for the smooth riding

Road/MTB brake inner cables

Road brake inner cables					
	Performance indicator	Product name	Icon	Description	Code no.
		Polymer coated brake inner cable		<ul style="list-style-type: none"> Polymer coating ø 1.6 mm x 2,000 mm Stainless steel incl. inner end cap Outer cap with tongue for BC-9000 (2 pcs.) 	Y8YZ98050
		SIL-TEC coated brake inner cable		<ul style="list-style-type: none"> SIL-TEC coating ø 1.6 mm x 2,050 mm Stainless steel incl. inner end cap 	Y80098320
		Stainless steel brake inner cable		<ul style="list-style-type: none"> ø 1.6 mm x 2,050 mm Stainless steel 	Y80098330
		Stainless steel brake inner cable for tandem		<ul style="list-style-type: none"> ø 1.6 mm x 3,500 mm Includes inner end cap 	Y80035014

MTB brake inner cables					
	Performance indicator	Product name	Icon	Description	Code no.
		Stainless steel brake inner cable		<ul style="list-style-type: none"> ø 1.6 mm x 2,050 mm Stainless steel incl. inner end cap 	Y80098210
		Stainless steel brake inner cable for tandem		<ul style="list-style-type: none"> ø 1.6 mm x 3,500 mm Stainless steel incl. inner end cap 	Y80235013

Road/MTB brake inner cables						
	Performance indicator	Product name	Icon	Description	Unit	Code no.
		Brake inner cable Road/MTB W-End type		<ul style="list-style-type: none"> ø 1.6 mm x 2,050 mm W-End steel, incl. inner end cap 	1	Y80098411
				<ul style="list-style-type: none"> ø 1.6 mm x 2,050 mm W-End steel, incl. inner end cap 10 units 	10	Y80098410

Road brake cable sets

BC-9000 polymer coated brake cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> ø 1.6 mm x 1,000 mm (1 pc.) ø 1.6 mm x 2,000 mm (1 pc.) Polymer coating Stainless steel 		<ul style="list-style-type: none"> Outer cap with tongue for BC-9000 (2 pcs.) Inner end cap (2 pcs.) 	<ul style="list-style-type: none"> BC-9000 brake outer casing 1,800 mm (1 pc.) 800 mm (1 pc.) 		<ul style="list-style-type: none"> Black White Red High-tech gray Blue Yellow Lime green Orange 	<ul style="list-style-type: none"> Y8YZ98010 Y8YZ98020 Y8YZ98030 Y8YZ98040 Y8YZ98091 Y8YZ98092 Y8YZ98090 Y8YZ98080

SLR SIL-TEC coated brake cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> ø 1.6 mm x 1,000 mm ø 1.6 mm x 2,050 mm SIL-TEC coating Stainless steel 		<ul style="list-style-type: none"> Inner end caps (2 pcs.) Outer end caps (2 pcs.) 	<ul style="list-style-type: none"> SLR 1,400 mm SLR 800 mm 		<ul style="list-style-type: none"> Black White Red High-tech gray Blue Yellow Lime green Orange 	<ul style="list-style-type: none"> Y80098011 Y80098012 Y80098014 Y80098018 Y80098015 Y80098013 Y80098016 Y80098017

SLR stainless steel brake cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> ø 1.6 mm x 1,000 mm ø 1.6 mm x 2,050 mm Stainless steel 		<ul style="list-style-type: none"> Inner end caps (2 pcs.) Outer end caps (2 pcs.) 	<ul style="list-style-type: none"> SLR 2,200 mm 		<ul style="list-style-type: none"> Black 	<ul style="list-style-type: none"> Y80098019



MTB brake cable sets


M-System stainless steel brake cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> ø 1.6 mm x 1,000 mm ø 1.6 mm x 2,050 mm Stainless steel 		<ul style="list-style-type: none"> Inner end caps (2 pcs.) Outer end caps (2 pcs.) 	<ul style="list-style-type: none"> M-System 2,200 mm 		<ul style="list-style-type: none"> Black 	<ul style="list-style-type: none"> Y80098021



Road/MTB brake cable sets


M-System steel brake cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> ø 1.6 mm x 1,000 mm ø 1.6 mm x 2,050 mm Steel 		<ul style="list-style-type: none"> Inner end caps (2 pcs.) Plain brass/Nickel-plated outer end cap (4 pcs.) 	<ul style="list-style-type: none"> M-System 2,200 mm 		<ul style="list-style-type: none"> Black 	<ul style="list-style-type: none"> Y80098022

Accessories

Cable adjuster				
	Model no.	Description	Unit/Qty	Code no.
	SM-CA70	Shift	2	ISMCA70P
	SM-CB70	Brake	2	ESMCB70P

Cable adjuster with quick release				
	Model no.	Description	Unit/Qty	Code no.
	SM-CB90		1	ISMCB90

Bottom bracket cable guide				
	Model no.	Description	Code no.	
	SM-SP17-M	Screw-on	Y66Y98500	High-grade
	SM-SP17-T	Snap-on	Y66Y98510	
	SM-SP18-M	Screw-on	Y66Y98600	Standard
	SM-SP18-T	Snap-on	Y66Y98610	

Tube liner				
	Model no.	Description	Qty/length	Code no.
		For Shifter/ Brake	1 pc./1,800 mm	Y80W18000



Y04180000



Special Grease

SP41 special cable grease is the best way to lubricate a cable. It's very low friction, very durable, and stays clean for a long time.


















The entire length of the inner liner of SP41 shift housing is pre-lubricated with special grease. The BC-9000 and BC-R680 brake housing is pre-lubricated as well.


You can also buy the grease separately and use it to rejuvenate older cables that still have some life left in them, or add it to lower end cable systems to improve their performance.





End Caps & Ferrules

Inner cable end cap					
	Type	Description	Code no. 10 pcs	Code no. 100 pcs	Code no. 500 pcs
	Shift	Shifting inner cable end cap (ø 1.2 mm)	Y62098060	Y62098030	Y62098035
	Brake	Brake inner cable end cap (ø 1.6 mm)	Y62098070	Y62098040	Y62098045

*Workshop Jar

Shift outer cap								
	Material	Description	Inside diameter of cap (mm)	QTY (pcs. per box)	Icon	Code no.	Workshop Jar QTY.	Workshop Jar Code no.
	Plastic	Outer cap with short tongue for road ST	4	1		Y63Z27000	100	Y63Z98810
	Plastic	Outer cap with long tongue for polymer-coated inner cable	4	1		Y63Z28000	100	Y63Z98960
	Aluminum	Outer cap for ST-7900	4	4		Y6RT98170	50	Y6RT98175
	Aluminum	Stepped outer cap sealed for some road bikes	4	1		Y6Z290030	-	-
	Aluminum	Outer cap aluminum sealed for SP40/41	4	1		Y6Z190010	-	-
	Aluminum	Outer cap aluminum sealed for RD	4	1		Y6YX90010	100	Y6YX90011
	Steel	Outer cap sealed for SP50/51	5	1		Y60E00010	-	-
	Plastic	Outer cap resin sealed for SP40/41	4	100		Y6Z298010	200	Y6Z298012
	Plastic	Outer cap resin for SP40/41	4	100		Y6ZA98010	200	Y6ZA98012
	Plastic	Outer cap with tongue & rubber shield for SP40/41	4	4		Y6AM98080	50	Y6AM98085

Shift outer cap					
	Material	Description	QTY (pcs. per box)	Code no.	Code no.
	-	Cap bottle holder kit	Aluminum sealed outer cap 100 pcs.	Y6YX90011	Y13098624
			Sealed outer cap 6 mm 200 pcs.	Y6Z298012	
			Normal outer cap 6 mm 200 pcs.	Y6ZA98012	

Brake outer cap								
	Material	Description	Inside diameter of cap (mm)	QTY (pcs. per box)	Icon	Code no.	Workshop Jar QTY.	Code no.
	Aluminum	Outer cap with tongue for BC-9000	5	1		Y8YZ98060	-	-
	Aluminum	Sealed brake ferrule, original replacement for BR-M950, BR-M739/black	5	1		Y8Z298110	-	-
	Steel	Outer cap steel for shift/brake cable	5	100		Y60B98010	200	Y60B98011

DRIVE SYSTEM

Intrinsically designed for supreme efficiency.









CHAINRINGS





ROAD MTB

Road Chainrings

DURA-ACE						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-R9200 FC-R9200-P	Double	12-speed	Outer	54T	Y0MZ98030
				Outer	52T	Y0MZ98020
				Outer	50T	Y0MZ98010
				Inner	40T	Y0MZ40000
				Inner	36T	Y0MZ36000
				Inner	34T	Y0MZ34000
	FC-R9100 FC-R9100-P	Double	11-speed	Outer	55T	Y1VP98050
				Outer	54T	Y1VP98040
				Outer	53T	Y1VP98030
				Outer	52T	Y1VP98020
				Outer	50T	Y1VP98010
				Inner	42T	Y1VP42000
				Inner	39T	Y1VP39000
				Inner	36T	Y1VP36000
				Inner	34T	Y1VP34000
					FC-9000	Double
Outer	54T	Y1N298130				
Outer	53T	Y1N298090				
Outer	52T for 52-38T	Y1N298120				
Outer	52T for 52-36T	Y1N298110				
Outer	50T	Y1N298080				
Inner	42T	Y1N242000				
Inner	39T	Y1N239000				
Inner	38T	Y1N238000				
Inner	36T	Y1N236000				
Inner	34T	Y1N234000				

ULTEGRA						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-R8100 FC-R8100P	Double	12-speed	Outer	52T	Y0NG98020
				Outer	50T	Y0NG98010
				Inner	36T	Y0NG36000
				Inner	34T	Y0NG34000
	FC-R8000	Double	11-speed	Outer	53T	Y1W898040
				Outer	52T	Y1W898030
				Outer	50T	Y1W898020
				Outer	46T	Y1W898010
				Inner	39T	Y1W839000
				Inner	36T	Y1W836000
				Inner	34T	Y1W834000
					FC-6800	Double
Outer	52T	Y1P498070				
Outer	50T	Y1P498060				
Outer	46T	Y1P498050				
Inner	39T	Y1P439000				
Inner	36T	Y1P436000				
Inner	34T	Y1P434000				

SHIMANO 105						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	NEW FC-R7100	Double	12-speed	Outer	50T	Y0R598010
				Inner	34T	Y0R59801T
	FC-R7000	Double	11-speed	Outer	53T Black	Y1WV98050
				Outer	52T Black	Y1WV98030
				Outer	50T Black	Y1WV98010
				Outer	53T Silver	Y1WV98060
				Outer	52T Silver	Y1WV98040
				Outer	50T Silver	Y1WV98020
				Inner	39T Black	Y1WV39000
				Inner	36T Black	Y1WV36000
				Inner	34T Black	Y1WV34000
				Inner	39T Silver	Y1WV39010
				Inner	36T Silver	Y1WV36010
				Inner	34T Silver	Y1WV34010

SHIMANO 105

Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
FC-5800	Double	11-speed	Outer	53T Black	Y1PH98130
			Outer	52T Black	Y1PH98110
			Outer	50T Black	Y1PH98090
			Outer	53T Silver	Y1PH98140
			Outer	52T Silver	Y1PH98120
			Outer	50T Silver	Y1PH98100
			Inner	39T Black	Y1PH39000
			Inner	34T Black	Y1PH34000
			Inner	39T Silver	Y1PH39010
			Inner	36T Silver	Y1PH36030
			Inner	34T Silver	Y1PH34010
			FC-5703	Triple	10-speed
Outer	50T Silver	Y1M498030			
Middle	39T Black	Y1M498020			
Middle	39T Silver	Y1M498010			
Inner	30T Black	Y1M430030			
Inner	30T Silver	Y1M430020			

TIAGRA

Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
FC-4700	Double	10-speed	Outer	52T	Y1RC98060
			Outer	50T	Y1RC98050
			Outer	48T	Y1RC98070
			Inner	36T	Y1RC36000
			Inner	34T	Y1RC34000
FC-4703	Triple	10-speed	Outer	50T	Y1RD98030
			Middle	39T	Y1RD98050
			Inner	30T	Y1RD30000






SORA


Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
FC-R3000	Double	9-speed	Outer	50T	Y1VC98010
			Outer	50T for chain guard	Y1NB98080
			Inner	34T	Y1VC34000
			Inner	34T for chain guard	Y1NB34000
FC-R3030 (w/o CG)	Triple	9-speed	Outer	50T	Y1VD98020
			Outer	50T for chain guard	Y1NC98030
			Middle	39T	Y1VD98010
			Middle	39T	Y1NC98010
			Inner	30T	Y1VD30000
			Inner	30T	Y1NC30000

SHIMANO


Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
NEW FC-RS520	Double	12-speed	Outer	50T	Y0RT98010
			Inner	34T	Y0RT9801T
FC-RS510	Double	11-speed	Outer	52T	Y1WF98070
			Outer	50T	Y1WF98010
			Outer	46T	Y1WF98060
			Inner	36T for 46-36T/52-36T	Y1WF36000
			Inner	34T	Y1WF34000
FC-RS400	Double	10-speed	Outer	50T	Y1VM98010
			Inner	34T	Y1VM34000

Gravel & Cyclocross Chainrings



GRX						
	Model no.	Front chainring type	Speed	Outer/Inner	Description	Code no.
	FC-RX810-1	Single	11-speed	-	42T	Y0JP98020
				-	40T	Y0JP98010
	FC-RX810-2	Double		Outer	48T	Y0JR98010
				Inner	31T	Y0JR31000
	FC-RX600-1	Single		-	40T	Y0K540000
	FC-RX600-11	Double		Outer	46T for 11-speed	Y0K698010
			Inner	30T for 11-speed	Y0K630000	
	FC-RX600-10	Double	10-speed	Outer	46T for 10-speed	Y0K798010
				Inner	30T for 10-speed	Y0K630000







Cyclocross						
	Model no.	Front chainring type	Speed	Outer/Inner	Description	Code no.
	FC-CX50	Double	10-speed	Outer	46T Silver	Y1MS98050
				Outer	46T Black	Y1MS98060
				Inner	36T Silver	Y1MS36000
				Inner	36T Black	Y1MS36010

Track Chainrings

DURA-ACE track					
	Model no.	Type	Size	Description	Code no.
	FC-7710	Track	3/32"	55T	Y16S55000
				54T	Y16S54000
				53T	Y16S53000
				52T	Y16S52000
				51T	Y16S51000
				50T	Y16S50000
				49T	Y16S49000
				48T	Y16S48000
				47T	Y16S47000
				46T	Y16S46000
			1/8"	53T	Y16S53001
				52T	Y16S52001
				51T	Y16S51001
				50T	Y16S50001
				49T	Y16S49001
				48T	Y16S48001
				47T	Y16S47001
				46T	Y16S46001
				45T	Y16S45001

MTB Chainrings

XTR						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-M9100-1/ FC-M9120-1/ FC-M9130-1	Single	12-speed	-	38T (SM-CRM95)	ISMCRM95A8
				-	36T (SM-CRM95)	ISMCRM95A6
				-	34T (SM-CRM95)	ISMCRM95A4
				-	32T (SM-CRM95)	ISMCRM95A2
				-	30T (SM-CRM95)	ISMCRM95A0
	FC-M9100-2/ FC-M9120-B2	Double		Outer	38T	Y1X298010
			Outer	38T	Y0G898010	
			Inner	28T	Y1X228000	


DEORE XT						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-M8100-1/ FC-M8120-1/ FC-M8130-1	Single	12-speed	-	36T (SM-CRM85)	ISMCRM85A6
				-	34T (SM-CRM85)	ISMCRM85A4
				-	32T (SM-CRM85)	ISMCRM85A2
				-	30T (SM-CRM85)	ISMCRM85A0
				-	28T (SM-CRM85)	ISMCRM85Z8
	FC-M8100-2/ FC-M8120-B2	Double		Outer	36T	Y0J898010
			Inner	26T	Y0J826000	
	FC-M8000-3	Triple	11-speed	Outer	40T	Y1RL98050
				Middle	30T	Y1RL98110
				Inner	22T	Y1RL22000
				-	Gear Fixing Bolt (M8 x 10.1/1 Unit = 4 pcs.)	Y1H598160
				-	Inner Gear Fixing Bolt (M8 x 8.5/1 Unit = 4 pcs.)	Y1NV98040
	FC-M8000-2/ FC-M8000-B2	Double		Outer	38T	Y1RL98090
				Outer	36T	Y1RL98080
				Outer	34T	Y1RL98070
				Inner	28T	Y1RL28000
				Inner	26T	Y1RL26000
			Inner	24T	Y1RL24000	
			-	Gear Fixing Bolt (M8 x 9/1 Unit = 4 pcs.)	Y1RL98060	
			-	Inner Gear Fixing Bolt (M8 x 8.5/1 Unit = 4 pcs.)	Y1NV98040	
	FC-M8000-1/ FC-M8000-B1	Single	-	34T (SM-CRM81)	ISMCRM81A4	
			-	32T (SM-CRM81)	ISMCRM81A2	
			-	30T (SM-CRM81)	ISMCRM81A0	
			-	Gear Fixing Bolt (M8 x 11.4/1 Unit = 4 pcs.)	Y1RL98100	
	FC-M785	Double	10-speed	Outer	40T	Y1ML98030
				Outer	38T for 38-26T	Y1ML98020
				Outer	38T for 38-24T	Y1ML98040
				Inner	28T	Y1ML28000
				Inner	26T	Y1ML26000
Inner	24T	Y1ML24000				


SLX						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-M7100-1/ FC-M7120-1/ FC-M7130-1	Single	12-speed	-	34T (SM-CRM75)	ISMCRM75A4
				-	32T (SM-CRM75)	ISMCRM75A2
				-	30T (SM-CRM75)	ISMCRM75A0
	FC-M7100-2/ FC-M7120-B2	Double	12-speed	Outer	36T	Y0JB98010
				Inner	26T	Y0JB26000
	FC-M7000-11-1/ FC-M7000-11-B2	Double	11-speed	Outer	38T	Y1VG98030
				Outer	36T	Y1VG98020
				Outer	34T	Y1VG98010
				Inner	28T	Y1VG28000
				Inner	26T	Y1VG26000
				Inner	24T	Y1VG24000
				-	Gear Fixing Bolt (M8 x 8.5/1 Unit = 4 pcs.)	Y1MM98100
				-	Inner Gear Fixing Bolt (M8 x 8.5/1 Unit = 4 pcs.)	Y1NV98040
				-	34T (SM-CRM70)	ISMCRM70A4
-	32T (SM-CRM70)	ISMCRM70A2				
-	30T (SM-CRM70)	ISMCRM70A0				
-	Gear Fixing Bolt (M8 x 8.5/1 Unit = 4 pcs.)	Y1MM98100				
	FC-M7000-11-1/ FC-M7000-11-B1	Single				


DEORE						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-M6100-1/ FC-M6120-1/ FC-M6130-1	Single	12-speed	-	32T	Y0L198050
				-	30T	Y0L198040
	FC-M5100-1	Single	10/11-speed	-	32T	Y0LA32000
				-	30T	Y0LA30000
	FC-M5100-2/ FC-M5100-B2	Double	11-speed	Outer	36T	Y0LB98010
				Inner	26T	Y0LB26000
	FC-M4100-2/ FC-M4100-B2	Double	11-speed	Outer	36T	Y0LE98010
				Inner	26T	Y1WD26000
	FC-M6000-3	Triple	10-speed	Outer	40T	Y1WC98020
				Middle	30T	Y1WC98010
				Inner	22T	Y1NW22000
	FC-M6000-2	Double	10-speed	Outer	38T	Y1WD98030
				Outer	34T	Y1WD98040
				Inner	28T	Y1WD28000
				Inner	24T	Y1WD24000
				Outer	36T	Y1WB98010
				Inner	26T	Y1WD26000
	FC-M6000-2/ FC-M6000-B2	Double	10-speed	Outer	38T	Y1RP98080
				Outer	36T	Y1RP98070
				Inner	24T	Y1RP24000
				Inner	22T	Y1KF22000

OTHERS						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-MT610-2/ FC-MT610-B2	Double	12-speed	Outer	36T	Y0L498010
				Inner	26T	Y0L426000
	FC-MT510-1	Single	12-speed	-	34T	Y0K434000
				-	32T	Y0L332000
	FC-MT511-1	Single		-	30T	Y0L330000
				-	32T	Y0L332000
	FC-MT610	Single	12-speed	-	30T	Y0L330000
				-	34T	Y0K434000
	FC-MT700-2/ FC-MT700-B2	Double	11-speed	-	32T	Y0K432000
				-	30T	Y0K430000
				Outer	36T	Y1VG98020
	FC-MT600-2/ FC-MT600-B2	Double	11-speed	Outer	34T	Y1VG98010
				Inner	26T	Y1RL26000
				Inner	24T	Y1RL24000
	FC-MT500	Triple	10-speed	Outer	36T	Y1VG98020
				Inner	26T	Y1VG26000
				Outer	40T	Y1VB98020
				Outer	40T for chain guard	Y1PY98030
	FC-MT500	Triple	10-speed	Middle	30T	Y1VB98010
				Inner	22T	Y1NW22000
				Outer	44T	Y0FN98020
				Outer	40T	Y1RT98010
	FC-MT300	Triple	9-speed	Outer	44T for chain guard	Y0FN98030
				Middle	32T	Y1LD98080
				Middle	30T	Y1PL98040
				Inner	22T for 44-32-22T	Y1LD22000
				Inner	22T for 40-30-22T	Y1PK22000
				Outer	36T	Y1WB98010
	FC-MT500-2/ FC-MT500-B2	Double	10-speed	Outer	36T	Y1WB98010
				Inner	26T	Y1WD26000


Gravity & BMX Chainrings


SAINT					
	Model no.	Front chainring type	Speed	Description	Code no.
	FC-M820/ M825	Single	10-speed	34T (SM-CR82)	ISMCR82A4
				36T (SM-CR82)	ISMCR82A6
				38T (SM-CR82)	ISMCR82A8


ZEE					
	Model no.	Front chainring type	Speed	Description	Code no.
	FC-M640/ M645	Single	10-speed	34T	Y1NG34000
				36T	Y1NG36000
				38T	Y1NG38000



DXR					
	Model no.	Front chainring type	Speed	Description	Code no.
	FC-MX71	Single	Single speed	34T (SM-CR80-A)	ISMCR80AA4
				38T (SM-CR80-A)	ISMCR80AA8
				41T (SM-CR80-A)	ISMCR80AB1
				42T (SM-CR80-A)	ISMCR80AB2
				43T (SM-CR80-A)	ISMCR80AB3
				44T (SM-CR80-A)	ISMCR80AB4
				46T (SM-CR80-A)	ISMCR80AB6

TREKKING & COMFORT Chainrings

DEORE XT trekking						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-T8000	Triple	10-speed	Outer	48T for chain guard	Y1VL98010
				Middle	36T	Y1MP98020
				Inner	26T	Y1J226000

DEORE trekking						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-T6010	Triple	10-speed	Outer	48T Black for chain guard	Y1WE98010
				Outer	48T Silver for chain guard	Y1WE98020
				Middle	36T	Y1NL98020
				Inner	26T	Y1LD26000

OTHERS						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-T521	Triple	10-speed	Outer	48T	Y1NL98050
				Outer	44T	Y1NL98030
				Outer	48T for chain guard	Y1NL98060
				Outer	44T for chain guard	Y1NL98040
				Middle	36T	Y1NL98020
				Middle	32T	Y1NL98010
				Inner	26T	Y1ME98030
				Inner	24T	Y1N098010

ALFINE					
	Model no.	Front chainring type	Speed	Description	Code no.
	FC-S501	Single	IHG	39T Silver for W CG	Y1HD39000
				39T Silver	Y1H639000
				39T Black for W CG	Y1HD39010
				42T Silver	Y1PB42000
				42T Black	Y1PB42010
				45T Silver	Y1PB45000
	FC-S500	Single	IHG	45T Black	Y1PB45010
				39T Silver for W CG	Y1HD39000
				39T Silver	Y1H639000
				39T Black for W CG	Y1HD39010
				39T Black	Y1HD39110
				45T Silver	Y1PB45000
				45T Black	Y1PB45010

E-BIKE Chainrings

Assist/E-BIKE									
	Recommended FC	Model no.	GEAR	Chain Guard	Color	S-PART no. (Chainring/4 arm adapter/Fixing Bolt & Nut/Chain Guard(With CG model))	Y-PART no. (Chainring ONLY)		
	FC-E5000/E5010	SM-CRE50	38T	With double		ESMCRE50A8DG	Y0J338000		
				With single		ESMCRE50A8SG			
				Without		ESMCRE50A8X			
			44T	With double		ESMCRE50B4DG		Y0J344000	
				With single		ESMCRE50B4SG			
				Without		ESMCRE50B4X			
FC-E6100/E8000/ M8150/EM600/ EM900	SM-CRE61	38T	With double		ESMCRE61A8DG	Y0J138000			
			With single		ESMCRE61A8SG				
			Without	Black Silver	ESMCRE61A8XL ESMCRE61A8XS				
		44T	With double		ESMCRE61B4DG		Y0J144000		
			With single		ESMCRE61B4SG				
			Without		ESMCRE61B4X				
	FC-E8000/ E8050/M8050/ M8150/EM600/ EM900	NEW CR-EM800	32T	Without		ICREM800A2XL			
			NEW CR-ET600	38T	With double			ECRET600A8DG	
					With single			ECRET600A8SG	
				Without	Black Silver	ECRET600A8XL ECRET600A8XS			
			44T	With double		ECRET600B4DG			
				With single		ECRET600B4SG			
		Without			ECRET600B4X				
		SM-CRE70-B	34T (53 mm chain line)	Without		ESMCRE70BA4X		Y0J434000	
			NEW 34T (55 mm chain line)			ESMCRE70B55A4XL			
		SM-CRE70	38T	With double Without		ESMCRE70A8DGL ESMCRE70A8XL		Y0J438000	
		SM-CRE70-12-B	36T (53 mm chain line)	Without		ESMCRE7012BA6XL	Y0KK36000		
			NEW 36T (55 mm chain line)			ESMCRE7012B55A6XL			
SM-CRE70-12	42T	With double		ESMCRE7012B2DGL	Y0KK42000				
SM-CRE80	34T	Without		ISMCRE80A4X	Y1VY00030				
	38T			ISMCRE80A8X	Y1VY00040				
	44T		With double	ISMCRE80B4DG	Y1VY44000				
SM-CRE80-B	34T (53 mm chain line)	Without		ISMCRE80BA4X	Y1VY00030				
	NEW 34T (55 mm chain line)			ISMCRE80B55A4XL					
	38T (53 mm chain line)			ISMCRE80BA8X	Y1VY00040				
	NEW 38T (55 mm chain line)			ISMCRE80B55A8XL					
	SM-CRE80-R		47T	Without		ISMCRE80B7XL	Y0JZ47000		
SM-CRE80-12-B	34T (53 mm chain line)	Without		ISMCRE8012BA4X	Y0KJ34100				
	NEW 34T (55 mm chain line)			ISMCRE8012B55A4XL					
	36T (53 mm chain line)			ISMCRE8012BA6X					
	NEW 36T (55 mm chain line)			ISMCRE8012B55A6XL					
	38T (53 mm chain line)			ISMCRE8012BA8X					
	NEW 38T (55 mm chain line)			ISMCRE8012B55A8XL					
SM-CRE80-12-SB	34T	Without		ISMCRE8012SBA4XL	Y0KJ34100				
	36T			ISMCRE8012SBA6XL	Y0KJ36100				

BOTTOM BRACKET

Road bottom bracket							
	Bottom bracket type	Bottom bracket shell width	Model no.		Code no.		
	Press-fit type	86.5 mm	SM-BB92-41B		ISMBB9241B		
			SM-BB72-41B		ISMBB7241B		
			SM-BB71-41B		ISMBB7141B		
			BB-RS500-PB		EBBR500PB		
	Thread type	68 mm (BSA)	-	DURA-ACE	BB-R9100	IBBR9100B	
			-	ULTEGRA, SHIMANO 105	SM-BBR60	ISMBBR60B	
			-	TIAGRA	BB-RS500	EBBR500B	
			-	TIAGRA	BB-RS501	NEW EBBR501B	
			70 mm (Italian)	-	DURA-ACE	BB-R9100	IBBR9100I
				-	ULTEGRA, SHIMANO 105	SM-BBR60	ISMBBR60I
		-		TIAGRA	BB-RS500	EBBR500I	
		-		TIAGRA	BB-RS501	NEW EBBR501I	
		68 mm (BSA)		109.5 mm	DURA-ACE	BB-7700	IBB7700B09N
				109.5 mm	DURA-ACE	BB-7710	EBB7710B09N
			109.5 mm	DURA-ACE (with seal ring)	BB-7710	EBB7710B09NS	
			113 mm	SHIMANO	BB-ES300	EBBES300B13	
118 mm	SHIMANO (triple)		BB-ES300	EBBES300B18			
109.5 mm	SHIMANO 105		BB-5500	EBB5500B09			
70 mm (Italian)	118.5 mm	SHIMANO 105	BB-5500	EBB5500B18			
	109.5 mm	DURA-ACE	BB-7700	IBB7700I09N			
	113 mm	SHIMANO	BB-ES300	EBBES300I13			
	118 mm	SHIMANO (triple)	BB-ES300	EBBES300I18			
	109.5 mm	SHIMANO 105	BB-5500	EBB5500I09			
	118.5 mm	SHIMANO 105	BB-5500	EBB5500I18			
	Square	68 mm (BSA)	107 mm	SHIMANO	BB-UN300	EBBUN300B07X	
			110 mm	SHIMANO	BB-UN300	EBBUN300B10X	
			113 mm	SHIMANO	BB-UN300	EBBUN300B13X	
			115 mm	SHIMANO	BB-UN300	EBBUN300B15B	
			118 mm	SHIMANO	BB-UN300	EBBUN300B18X	
			122.5 mm	SHIMANO	BB-UN300	EBBUN300B22X	
			127.5 mm	SHIMANO	BB-UN300	EBBUN300B27B	

MTB/CITY bottom bracket					
	Bottom bracket type	Bottom bracket shell width	Model no.		Code no.
	Press-fit type	89.5/92 mm	SM-BB94-41A		ISMBB9441A
			BB-MT800-PA		IBBMT800PA
			BB-MT500-PA		EBBMT500PA
		104.5/107 mm	SM-BB71-41A		ISMBB7141A
			BB-MT800-PC		IBBMT800PC
			SM-BB71-41C		ISMBB7141C

MTB/CITY bottom bracket

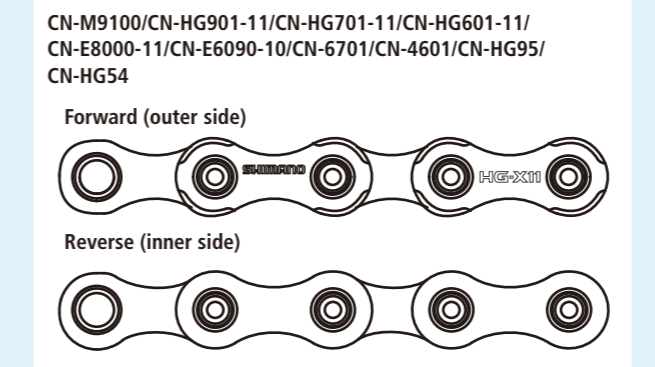
Bottom bracket type	Bottom bracket shell width	Bottom bracket axle length	Series description	Model no.	Code no.	
Thread type	68/73 mm		XTR	SM-BB93	ISMBB93B	
			DEORE XT, SLX, DEORE LX	BB-MT800	IBBMT800B	
			DEORE XT	BB-MT800	IBBMT800KB	
			DXR (Short Inner cover)	BB-MT800	IBBMT800SB	
			DEORE XT, SLX, DEORE LX	BB-MT801	NEW IBBMT801B	
			DEORE XT, SLX, DEORE LX	BB-MT801	NEW IBBMT801KB	
	68 mm		DXR (Short Inner cover)	BB-MT801	NEW IBBMT801SB	
	68/73 mm		DEORE, SHIMANO ALIVIO	SM-BB52	ESMBB52B	
			SAINT	SM-BB80	ISMBB80B	
	83 mm		SAINT	SM-BB80	ISMBB80D	
			ZEE	SM-BB52	ESMBB52D	
	68/73 mm			BB-MT501	NEW EBBMT501B	
OCTALINK	68 mm	121 mm (AK)	For chaincase	BB-ES300	EBBES300AKB21	
		121 mm (AK)	For chaincase and non-chaincase use compatible	BB-ES300	EBBES300AKB21W	
		113 mm		BB-ES300	EBBES300B13	
		118 mm		BB-ES300	EBBES300B18	
		121 mm		BB-ES300	EBBES300B21	
		126 mm		BB-ES300	EBBES300B26	
		113 mm	For E-type front derailleur	BB-ES300	EBBES300EB13	
		118 mm	For E-type front derailleur	BB-ES300	EBBES300EB18	
		121 mm	For E-type front derailleur	BB-ES300	EBBES300EB21	
		121 mm	For chaincase	BB-ES300	EBBES300KB21	
		126 mm	For E-type front derailleur	BB-ES300	EBBES300EB26	
		126 mm	For chaincase	BB-ES300	EBBES300KB26	
	70 mm (Italian)	113 mm		BB-ES300	EBBES300I13	
		118 mm		BB-ES300	EBBES300I18	
		68 mm	113 mm		BB-ES51	EBBES51B13
			118 mm		BB-ES51	EBBES51B18
	121 mm			BB-ES51	EBBES51B21	
	126 mm			BB-ES51	EBBES51B26	
	73 mm	113 mm		BB-ES51	EBBES51C13	
		118 mm		BB-ES51	EBBES51C18	
		113 mm		BB-ES300	EBBES300C13	
		118 mm		BB-ES300	EBBES300C18	
		121 mm		BB-ES300	EBBES300C21	
		121 mm	For E-type front derailleur	BB-ES300	EBBES300EC21	
		126 mm		BB-ES300	EBBES300C26	
		126 mm	For E-type front derailleur	BB-ES300	EBBES300EC26	
	Square	68 mm	107 mm		BB-UN300	EBBUN300B07X
			110 mm		BB-UN300	EBBUN300B10X
			110 mm	For chaincase	BB-UN300	EBBUN300KB10X
			113 mm		BB-UN300	EBBUN300B13X
115 mm				BB-UN300	EBBUN300B15B	
117.5 mm				BB-UN300	EBBUN300B17X	
117.5 mm			For chaincase	BB-UN300	EBBUN300KB17X	
118 mm				BB-UN300	EBBUN300B18X	
118 mm			For chaincase	BB-UN300	EBBUN300KB18B	
122.5 mm				BB-UN300	EBBUN300B22X	
122.5 mm (LL123)				BB-UN300	EBBUN300B23X	
122.5 mm (LL123)			For chaincase	BB-UN300	EBBUN300KB23XW	
122.5 mm (LL123)		For E-type front derailleur	BB-UN300	EBBUN300EB23X		
122.5 mm (D-NL)		For chaincase	BB-UN300	EBBUN300KB22X		
127.5 mm			BB-UN300	EBBUN300B27B		
127.5 mm		For chaincase	BB-UN300	EBBUN300KB27X		
73 mm		113 mm		BB-UN300	EBBUN300C13X	
		118 mm		BB-UN300	EBBUN300C18X	
		122.5 mm (D-NL)		BB-UN300	EBBUN300C22B	
		122.5 mm (LL123)		BB-UN300	EBBUN300C23X	



CHAINS



Directional chain
In order to obtain good gear shifting performance, directional chains have a forward side and a reverse side, and the sides are marked so that the chain will face the correct way when installed.

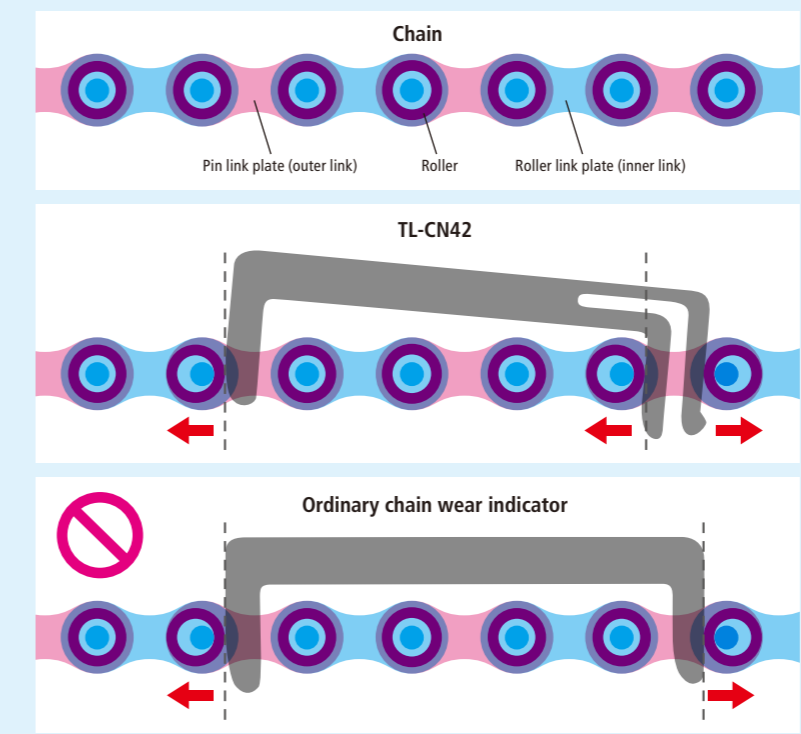


Chain cutter for 12-speed chain
TL-CN29 and TL-CN35 : For 9-12 speed chain.
TL-CN28 and TL-CN34 : For 6-11 speed chain.



SHIMANO Chain Wear Indicator

SHIMANO chain wear indicator (TL-CN42) allows you to check the SHIMANO chain wear accurately, easy and quickly in its unique way. The checker measures chain length without clearance gap between roller and roller link plate by guiding the rollers in the same direction.



Enables precise and practical measurement
Pushes the rollers to one side in order to duplicate the position of rollers on gears during the actual drive of chain.

Note: The clearance between a roller and roller link plate is enlarged for easier explanation.
*TL-CN41 has different design, but works exactly the same.

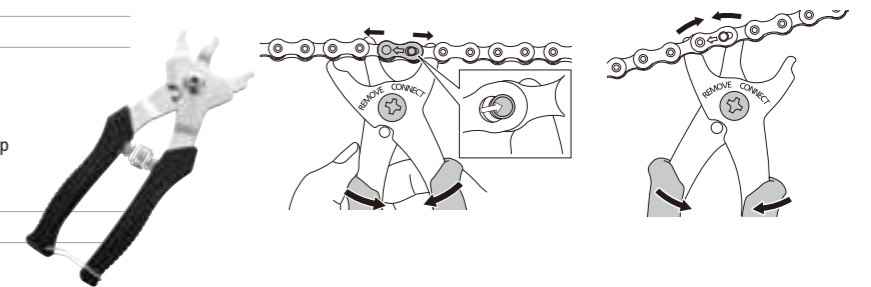
TL-CN10 QUICK-LINK connecting & removing pliers

Usage Connecting and removing SHIMANO QUICK-LINK

USP

- 2-in-1 operation pliers that allow SHIMANO QUICK-LINK to be installed and removed manually
- Simple and easy to use
- Ergonomic and comfortable handles offer excellent grip
- Wire latch holds handles together when not in use
- Great to use at home and in the workshop

Code no. Y13022000



12-speed											
Type	Photo	Model no.	Performance indicator	E-Bike	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.
HYPERGLIDE+		CN-M9100			SIL-TEC	Chromizing	X	X	QUICK-LINK (SM-CN910-12)	242 g	ICNM9100116Q ICNM9100126Q ICNM9100138Q
		CN-M8100			Gray	Chromizing	X	-	QUICK-LINK (SM-CN910-12)	252 g	ICNM8100116Q ICNM8100126Q ICNM8100138Q
		CN-M7100			Gray	SIL-TEC	X	-	QUICK-LINK (SM-CN910-12)	252 g	ICNM7100116Q ICNM7100126Q ICNM7100138Q
		CN-M6100			Gray	Brown	X	-	QUICK-LINK (SM-CN910-12)	-	ICNM6100116Q ICNM6100126Q ICNM6100138Q

11-speed HG & 11/10-speed LG											
Type	Photo	Model no.	Performance indicator	E-Bike	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.
HG-X11		CN-HG901-11			SIL-TEC	SIL-TEC	X	X	QUICK-LINK (SM-CN900-11)	247 g	ICNHG90111116Q ICNHG90111138Q
		CN-HG701-11			SIL-TEC	SIL-TEC	X	-	QUICK-LINK (SM-CN900-11)	257 g	ICNHG70111116Q ICNHG70111126Q ICNHG70111138Q
		CN-HG601-11			Gray	SIL-TEC	X	-	QUICK-LINK (SM-CN900-11)	257 g	ICNHG60111116Q ICNHG60111126Q ICNHG60111138Q
LG		CN-LG500			Gray	Gray	X	-	QUICK-LINK (SM-CN900-11)	257 g	ICNLG500116Q ICNLG500126Q ICNLG500138Q

10-speed											
Type	Photo	Model no.	Performance indicator	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.	
Double HG Directional		CN-6701		Zinc-Alloy Plated	Gray	X	-	Two Lines	267 g	ICN6701116	
		CN-4601		Gray	Brown	X	-	Two Lines	277 g	ECN4601116	
Triple HG		CN-6600		Zinc-Alloy Plated	Gray	X	-	Two Lines	275 g	ICN66001161	
HG-X Directional		CN-HG95		SIL-TEC	SIL-TEC	X	-	Two Lines	268 g	ICNHG951161	
		CN-HG54		Gray	Brown	X	-	Two Lines	273 g	ICNHG541161	

9-speed											
Type	Photo	Model no.	Performance indicator	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.	
HG		CN-HG93		Zinc-Alloy Plated	Gray	X	-	Silver color	299 g	ICNHG931161	
		CN-HG53		Gray	Brown	X	-	Silver color	299 g	ECNHG53C1161	

8/7/6-speed											
Type	Photo	Model no.	Performance indicator	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.	
HG/UG		CN-HG71		Gray	Gray	X	-	QUICK-LINK (CN-UG51)	324 g	ECNHG71C116Q	
		CN-HG71		Gray	Gray	X	-	Black color	324 g	ECNHG71C116I ECNHG71C138I	
		CN-HG40		Gray	Brown	-	-	QUICK-LINK (CN-UG51)	324 g	ECNHG40116Q	

Internal hub gear & Single speed											
Type	Photo	Model no.	Performance indicator	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.	
1/2" x 1/8"		CN-NX10		Dacrotized treatment	Dacrotized treatment	-	-	End pin	358 g	ECNXX10C114I	

E-BIKE 11-speed											
Type	Photo	Model no.	Performance indicator	E-Bike	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.
HG-X11		CN-E8000-11			SIL-TEC	Chromizing	X	-	QUICK-LINK (SM-CN900-11)	257 g	ICNE80001116Q ICNE80001126Q ICNE80001138Q

E-BIKE 10-speed											
Type	Photo	Model no.	Performance indicator	E-Bike	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.
HG-X		CN-E6090-10			SIL-TEC	SIL-TEC	X	-	Two Lines	276 g	ICNE609010118I ICNE609010126I ICNE609010138I

E-BIKE 9-speed											
Type	Photo	Model no.	Performance indicator	E-Bike	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.
HG		CN-E6070-9			Gray	Gray	X	-	Silver color	276 g	ICNE60709118I ICNE60709126I ICNE60709138I

QUICK-LINK					
	Model no.	Compatibility	Note	Unit	Code no.
	SM-CN910-12	For 12-speed chain	<ul style="list-style-type: none"> Wears and functions like other links on the chain SIL-TEC surface treatment Single use 	2 pairs	ISMCM91012A
	SM-CN900-11	For 11-speed chain, CN-LG500	<ul style="list-style-type: none"> Wears and functions like other links on the chain SIL-TEC surface treatment Single use 	50 pairs (workshop jar)	ISMCM91012BS
	SM-UG51	For 8/7/6-speed chain	<ul style="list-style-type: none"> Wears and functions like other links on the chain Single use 	2 pairs	ISMUG51A ISMUG51TA
				50 pairs (workshop jar)	ISMUG51BS

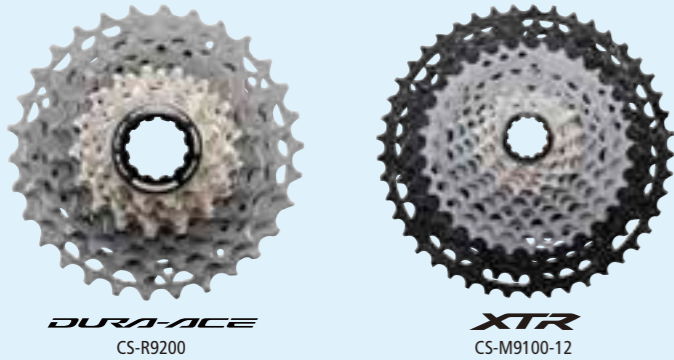
Chain pin				
	Compatibility	Identification	Unit	Code no.
	For 11-speed chain	With sharp nose	3 pcs.	Y0AH98030
	For 10-speed chain except CN-7800	With two lines	3 pcs.	Y08X98031
	For 9-speed chain	Silver color	3 pcs.	Y06998030
	For 8/7/6-speed chain	Black color	3 pcs.	Y04598010

NOTE
In order to obtain good gear shifting performance, these chains have a forward side and a reverse side. The forward (outer side) is marked so that the chain will face the correct way when installed. The proper design performance will be obtained when the chain is installed so that it faces the correct way.
If it is installed so that it faces the opposite way, the chain may come off and the bicycle may fall over and serious injury may occur as a result.

CASSETTE SPROCKETS

Titanium sprockets for weight optimization

DURA-ACE and XTR cassette sprockets are 5 titanium gears to reduce weight and increase rigidity.



Weight-reducing spiders

Carbon spider arms save weight while offering high torsional rigidity. DURA-ACE cassette sprockets even have two spiders, and ULTEGRA cassette sprockets have one.



Road Cassette Sprockets

Cassettes road										
1 unit (set)										
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.			
	CS-R9200-12	DURA-ACE	11-12-13-14-15-16-17-19-21-24-27-30T	HYPERGLIDE+	HG spline L2	223 g	ICSR920012130			
			11-12-13-14-15-17-19-21-24-27-30-34T			253 g	ICSR920012134			
	CS-R8100-12	ULTEGRA	11-12-13-14-15-16-17-19-21-24-27-30T	HYPERGLIDE+	HG spline L2	291 g	ICSR810012130			
			11-12-13-14-15-17-19-21-24-27-30-34T			345 g	ICSR810012134			
	NEW CS-R7100-12	SHIMANO 105	11-12-13-14-15-17-19-21-24-27-30-34T	HG	HG spline L2	361 g	ICSR710012134			
NEW CS-HG710-12	SHIMANO	11-12-13-14-15-17-19-21-24-28-32-36T	HG	HG spline L2	-	ICSHG71012136				
	CS-R9100	DURA-ACE	11-12-13-14-15-16-17-19-21-23-25T	HG-EV	HG spline L	175 g	ICSR910011125			
			11-12-13-14-15-17-19-21-23-25-28T			193 g	ICSR910011128			
			11-12-13-14-15-17-19-21-24-27-30T			211 g	ICSR910011130			
			12-13-14-15-16-17-18-19-21-23-25T			189 g	ICSR910011225			
			12-13-14-15-16-17-19-21-23-25-28T			205 g	ICSR910011228			
	CS-R8000	ULTEGRA	11-12-13-14-15-16-17-19-21-23-25T	HG-EV	HG spline L	232 g	ICSR800011125			
			11-12-13-14-15-17-19-21-23-25-28T			251 g	ICSR800011128			
			11-12-13-14-15-17-19-21-24-27-30T			269 g	ICSR800011130			
			11-12-13-14-16-18-20-22-25-28-32T			292 g	ICSR800011132			
			12-13-14-15-16-17-18-19-21-23-25T			243 g	ICSR800011225			
			14-15-16-17-18-19-20-21-23-25-28T			300 g	ICSR800011428			
	CS-HG800-11		11-13-15-17-19-21-23-25-27-30-34T		HG spline M	335 g	ICSHG800111134			
	CS-6800		11-12-13-14-15-16-17-18-19-21-23T		HG spline L	212 g	ICS680011123			
	CS-R7000	SHIMANO 105	11-12-13-14-15-17-19-21-23-25-28T	HG-EV	HG spline L	284 g	ICSR700011128			
			11-12-13-14-15-17-19-21-24-27-30T			304 g	ICSR700011130			
11-12-13-14-16-18-20-22-25-28-32T			320 g			ICSR700011132				
12-13-14-15-16-17-18-19-21-23-25T			269 g			ICSR700011225				
CS-HG700-11						11-13-15-17-19-21-23-25-27-30-34T		HG spline M	379 g	ICSHG70011134

— Titanium gear

Cassettes road

Cassettes road							
1 unit (set)							
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
	CS-7900	DURA-ACE	11-12-13-14-15-17-19-21-23-25T	HG	HG spline M	187 g (11-28T)	ICS790010125
			11-12-13-14-15-17-19-21-24-28T				ICS790010128
			12-13-14-15-16-17-19-21-24-27T				ICS790010227
	CS-6700	ULTEGRA	11-12-13-14-15-16-17-19-21-23T	HG	HG spline M	242 g (11-28T)	ICS670010123
			11-12-13-14-15-17-19-21-23-25T				ICS670010125
			11-12-13-14-15-17-19-21-24-28T				ICS670010128
			12-13-14-15-16-17-19-21-23-25T				ICS670010225
			12-13-14-15-17-19-21-24-27-30T				ICS670010230
			14-15-16-17-18-19-20-21-23-25T				ICS660010425
	CS-6600		16-17-18-19-20-21-22-23-25-27T				ICS660010627
							ICS660010627
	CS-HG500-10	TIAGRA	11-12-13-14-15-17-19-21-23-25T	HG	HG spline M		ICSHG50010125
			11-12-14-16-18-20-22-25-28-32T				ICSHG50010132
			11-13-15-17-19-21-23-26-30-34T				ICSHG50010134
			12-13-14-15-17-19-21-23-25-28T				ICSHG50010228
							ICSHG50010228
	CS-HG400-9	SORA	11-12-13-15-17-19-21-23-25T	HG	HG spline M		ICSHG4009125
							ICSHG4009125
	CS-HG50-9	TIAGRA SORA	11-12-14-16-18-20-23-26-30T	HG	HG spline M		ICSHG509130
			12-13-14-15-17-19-21-23-25T				ICSHG509225
			13-14-15-16-17-19-21-23-25T				ICSHG509325
			14-15-16-17-18-19-21-23-25T				ICSHG509425
	CS-HG50-8	CLARIS	11-13-15-17-19-21-24-28T	HG	HG spline M		ECSHG508128P
			11-13-15-17-20-23-26-30T				ECSHG508130P
			11-13-15-18-21-24-28-32T				ECSHG508132P
			11-13-15-18-21-24-28-34T				ECSHG508134P
			12-13-15-17-19-21-23-25T				ICSHG508225
			13-14-15-17-19-21-23-26T				ICSHG508326

— Titanium gear

MTB Cassette Sprockets

Cassettes MTB								
1 unit (set)								
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.	
	CS-M9101-12	XTR	10-12-14-16-18-21-24-28-32-36-40-45T	HYPERGLIDE+	MICRO SPLINE	357 g	ICSM9101045	
			10-12-14-16-18-21-24-28-33-39-45-51T			367 g	ICSM9101051	
	CS-M8100-12	DEORE XT	10-12-14-16-18-21-24-28-32-36-40-45T	HYPERGLIDE+	MICRO SPLINE	440 g	ICSM8100045	
			10-12-14-16-18-21-24-28-33-39-45-51T			450 g	ICSM8100051	
	CS-M7100-12	SLX	10-12-14-16-18-21-24-28-32-36-40-45T	HYPERGLIDE+	MICRO SPLINE	520 g	ICSM7100045	
			10-12-14-16-18-21-24-28-33-39-45-51T			540 g	ICSM7100051	
	CS-M6100-12	DEORE	10-12-14-16-18-21-24-28-33-39-45-51T	HYPERGLIDE+	MICRO SPLINE	-	ICSM610012051	
		CS-M9001	XTR	11-13-15-17-19-21-24-27-31-35-40T	HG	HG spline M	331 g	ICSM9001140
		CS-M8000	DEORE XT	11-13-15-17-19-21-24-27-31-35-40T	HG	HG spline M	411 g	ICSM8000140
				11-13-15-17-19-21-24-28-32-37-42T			434 g	ICSM8000142
				11-13-15-17-19-21-24-28-32-37-46T			437 g	ICSM8000146
		CS-M7000	SLX	11-13-15-17-19-21-24-27-31-35-40T	HG	HG spline M	450 g	ICSM7000140
11-13-15-17-19-21-24-28-32-37-42T				476 g			ICSM7000142	
11-13-15-17-19-21-24-28-32-37-46T				482 g			ICSM7000146	
CS-M5100-11		DEORE	11-13-15-17-19-21-24-28-32-37-42T	HG	HG spline M	-	ICSM510011142	
			11-13-15-18-21-24-28-33-39-45-51T			-	ICSM510011151	
NEW CS-LG700-11		SHIMANO CUES	11-13-15-17-20-23-26-30-36-43-50T	LINKGLIDE	HG spline M*	-	ICSLG70011150	
NEW CS-LG400-11	11-13-15-17-20-23-26-30-36-43-50T		-			ECSLG40011150		
	CS-M7710-10	DEORE XT	11-12-14-16-18-20-22-25-28-32T	HG	HG spline M	294 g	ICSM77110132	
			11-13-15-17-19-21-23-26-30-34T			323 g	ICSM77110134	
			11-13-15-17-19-21-24-28-32-36T			343 g	ICSM77110136	
	CS-HG81-10	SLX	11-12-14-16-18-20-22-25-28-32T	HG	HG spline M	317 g	ICSHG8110132	
			11-13-15-17-19-21-23-26-30-34T			351 g	ICSHG8110134	
			11-13-15-17-19-21-24-28-32-36T			369 g	ICSHG8110136	

— Titanium gear — Aluminum gear

*Follow compatibility chart

Cassettes MTB

1 unit (set)								
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.	
	CS-M4100-10	DEORE	11-13-15-18-21-24-28-32-37-42T	HG	HG spline M	-	ECSM410010142	
			11-13-15-18-21-24-28-32-37-46T			-	ECSM410010146	
	CS-HG50-10			11-13-15-17-19-21-24-28-32-36T			-	ICSHG5010136
	NEW CS-LG400-10	SHIMANO CUES	11-13-15-17-20-23-26-30-36-43T	LINKGLIDE	HG spline M	-	ECSLG40010143	
	CS-M770	DEORE XT	11-12-14-16-18-21-24-28-32T	HG	HG spline M	264 g	ICSM7709132	
11-13-15-17-20-23-26-30-34T			300 g			ICSM7709134		
	CS-HG400-9	SHIMANO ALIVIO	11-12-13-14-16-18-21-24-28T	HG	HG spline M	-	ICSHG4009128	
			11-12-14-16-18-21-24-28-32T			-	ICSHG4009132	
			11-13-15-17-20-23-26-30-34T			-	ICSHG4009134	
			11-13-15-17-20-23-26-30-36T			-	ICSHG4009136	
	CS-HG201-9	ACERA	11-13-15-17-19-21-24-28-32T	HG	HG spline M	-	ECSHG2019132	
			11-13-15-17-20-23-26-30-34T			-	ECSHG2019134	
			11-13-15-17-19-21-24-28-32T			-	ECSHG2009132	
			11-13-15-17-20-23-26-30-34T			-	ECSHG2009134	
	CS-HG200-9			11-13-15-17-20-23-26-30-34T			-	ECSHG2009134
		CS-HG51-8	SHIMANO ALIVIO	11-13-15-17-19-21-24-28T	HG	HG spline M	-	ECSHG518128
11-13-15-17-20-23-26-30T				-			ECSHG518130	
11-13-15-18-21-24-28-32T				-			ECSHG518132	
CS-HG41-8		ACERA	11-13-15-17-20-23-26-30T	HG	HG spline M	-	ECSHG418130	
			11-13-15-18-21-24-28-32T			-	ECSHG418132	
			11-13-15-17-20-23-26-34T			-	ECSHG418134	
CS-HG31-8	ALTUS	11-13-15-17-20-23-26-30T	HG	HG spline M	-	ECSHG318130		
		11-13-15-18-21-24-28-32T			-	ECSHG318132		
		11-13-15-17-20-23-26-34T			-	ECSHG318134		
CS-HG200-8	SHIMANO	12-14-16-18-21-24-28-32T	HG	HG spline M	-	ECSHG2008232T		
	CS-HG41-7	SHIMANO	11-13-15-18-21-24-28T	HG	HG spline S	-	ECSHG417128	
			12-14-16-18-21-24-28T			-	ECSHG2007228T	
	CS-HG200-7			12-14-16-18-21-26-32T			-	ECSHG2007232T

Multiple freewheel

1 unit (set)							
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
	MF-TZ510-7	TOURNEY	14-16-18-20-22-24-28T	HG/UG		-	EMFTZ5107428
			14-16-18-20-22-24-28T			-	EMFTZ5107428CP
			14-16-18-20-22-24-34T			-	EMFTZ5107434
			14-16-18-20-22-24-34T			-	EMFTZ5107434CP
	MF-TZ500-7	TOURNEY	14-16-18-20-22-24-28T	HG/UG		-	EMFTZ5007428
			14-16-18-20-22-24-34T			-	EMFTZ5007434
MF-TZ510-6	TOURNEY	14-16-18-21-24-28T	HG/UG		-	EMFTZ5106428	
		14-16-18-21-24-28T			-	EMFTZ5106428CP	
MF-TZ500-6	TOURNEY	14-16-18-21-24-28T	HG/UG		-	EMFTZ5006428	

Other cassettes and cogs					
1 unit (set)					
	Model no.	Series	Teeth	Code no.	
	CS-MX66	DXR	14T	ICSMX6614	
			15T	ICSMX6615	
			16T	ICSMX6616	
			18T	ICSMX6618	
	CS-S500	ALFINE	18T	ICSS50018	
			18T (w/o guard)	ICSS50018X	
			20T	ICSS50020	
	SM-GEAR	NEXUS	16T	Y32203220	
			18T	Y32203420	
			19T	Y32203520	
			20T	Y32203620	
			21T	Y33060000	
			22T	Y33060100	
			23T	Y33060200	
CS-C7000		24T	Y0FM24000		
		27T	Y0FM01000		
		30T	Y0FM30000		
	SS-7600	DURA-ACE Track	13T - 1/8"	Y27913100	
			14T - 1/8"	Y27914100	
			15T - 1/8"	Y27915100	
			16T - 1/8"	Y27916100	
			13T - 3/32"	Y27913000	
			14T - 3/32"	Y27914000	
			15T - 3/32"	Y27915000	
			16T - 3/32"	Y27916000	

Single freewheel					
1 unit (set)					
	Model no.	Series	Teeth	Code no.	Remark
	SF-MX30	DX	16T	ISFMX3016	
			16T	ISFMX3016L	Black finish
			17T	ISFMX3017	
			18T	ISFMX3018	
	SF-1200	SHIMANO	16T	ISF120016	
			18T	ISF120018	
			20T	ISF120020	

Top four gear-sprockets for 12-speed MTB cassette sprocket

- Compatible with all SHIMANO's 12-speed MTB cassette sprocket.
- To keep optimum shifting performance specially for e-bike use.

Cassettes MTB teeth (top gears)									
Speed	Model no.	Series	Teeth	Teeth (4 gears from top)					
				10T	12T	14T	16T		
12-speed	CS-M9100-12	XTR	10-12-14-16-18-21-24-28-32-36-40-45T 10-12-14-16-18-21-24-28-33-39-45-51T	Y1X498030	Y1X414000	Y1X416000			
	CS-M8100-12	DEORE XT							
	CS-M7100-12	SLX		Y1X498020	Y0GX14000	Y0GX16000			
	CS-M6100-12	DEORE							
Speed	Model no.	Series	Teeth	Teeth (3 gears from top)					
				11T	13T	15T			
11-speed	CS-M9001	XTR	11-13-15-17-19-21-24-27-31-35-40T	Y1PU11000	Y1PU13000	Y1PU15000			
	CS-M8000	DEORE XT	11-13-15-17-19-21-24-27-31-35-40T 11-13-15-17-19-21-24-28-32-37-42T	Y1RK11000	Y1RK13000	Y1RK15000			
	CS-M7000	SLX	11-13-15-17-19-21-24-28-32-37-46T						
	CS-M5100-11	DEORE	11-13-15-17-19-21-24-28-32-37-42T 11-13-15-18-21-24-28-33-39-45-51T						

REAR DERAILLEUR

Bearing x 1
Precision sealed bearing tension pulley for low friction

Bearing x 2
Precision sealed bearings in both guide and tension pulleys keep drivetrain smooth and friction-free

Ceramic bushing
Ceramic bushing is used in guide pulley for durability



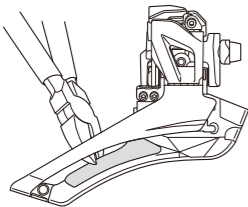
Pulley set									
• 1 unit (set) • A set of 1 tension pulley & guide pulley									
	Model	Performance indicator	Series	Product level			Code no.		
				Model no.					
	Pulley set	ULTIMATE	DURA-ACE	RD-R9250	X	-	-	Y3GK98010	
	Pulley set	ULTIMATE	DURA-ACE	RD-R9100/R9150	X	-	-	Y5ZR98010	
	Pulley set	ULTIMATE	DURA-ACE	RD-9000/9070/7970	X	-	-	Y5Y898060	
	Pulley set	ULTIMATE	DURA-ACE	RD-7900	X	-	-	Y5X098140	
	Pulley set	ADVANCED	ULTEGRA	RD-R8150	X	-	-	Y3J198010	
	Pulley set	ADVANCED	ULTEGRA, GRX, DEORE XT	RD-R8000/R8050/RX800/RX805/RX812/M8000/M8050/RX817	X	-	-	Y3E998010	
	Pulley set	ADVANCED	ULTEGRA	RD-6800/6870	X	-	-	Y5YC98140	
	NEW Pulley set	SELECT	SHIMANO 105	RD-R7150	-	-	-	Y3HY98010	
	Pulley set	SELECT	SHIMANO 105, SLX, DEORE, METREA	RD-R7000/5800-GS/M7000-11/M6000-GS/U5000	-	-	-	Y5YE98090	
	Pulley set	ADVANCED	GRX	RD-RX815/RX810	X	-	-	Y3GE98010	
	Pulley set	ADVANCED	LG	RD-M8130-SGS	X	-	-	Y3J598010	
	Pulley set	ADVANCED	ULTEGRA, DEORE XT, SAINT	RD-6770/6700-A/6700/6600/M772/M771/M770/M810-A/M810/T780	-	X (Tension pulley only)	X (Guide pulley only)	Y5X998150	
	Pulley set	SELECT		RD-5800-SS/5701/5700-A/5700/4700/4601/4600/3500/3400/R2000/2400/R350/R350-10/RX400/M7000-10/M675/M670/M663/M662/M640/M6000-SGS/M615/M610/M601/M593/M592/M591/M4000/M430/M3000/M390/M370/M2000/T670/T661/T6000/T610/T4000/T3000/F800/CT-S500	-	-	-	Y5XH98120	
	Pulley set	ULTIMATE	XTR	RD-M9100/M9120	X	-	-	Y3FA98090	
	Pulley set	ULTIMATE	XTR	RD-M9000/M9050	X	-	-	Y5PV98160	
	Pulley set	ULTIMATE	XTR	RD-M972/M971/M970	X	-	-	Y5VW98120	
	Pulley set	ULTIMATE	XTR, SAINT	RD-M986/M985/M981/M980/M820	X	-	-	Y5XC98140	
	Pulley set	ADVANCED	DEORE XT	RD-M8100-SGS/M8120-SGS	X	-	-	Y3FW98010	
	Pulley set	ADVANCED	DEORE XT	RD-M786/M781/M780/M773/T8000	X	-	-	Y5XF98130	
	Pulley set	SELECT	SLX, DEORE	RD-M7100-SGS/M7120-SGS/M6100	-	-	-	Y3FY98010	
	Pulley set	SELECT	DEORE	RD-M5100	-	-	-	Y3HL98010	
	Pulley set	SELECT	DEORE	RD-M5120/M4120	-	-	-	Y3HM98010	

If you would like to have the same pulleys as originally assembled to RD, please refer to EV on our website (<https://si.shimano.com>).







Bumper for rear derailleur			
Added bumper on the pulley cage contributes to silent drive and reducing damage of pulley cage.			
	Series	Model no.	Code no.
	XTR	RD-M9100	Y3FA59000
	DEORE XT	RD-M8100	Y3FW50000
		RD-M8130	
SLX	RD-M7100	Y3FY51000	

FRONT DERAILLEUR



Skid plate for road front derailleur

Skid plate	Series	Model no.	Mounting holes	Code no.
	DURA-ACE	FD-R9100	3	Y5ZS15000
		FD-9000	2	Y5NF19000
	ULTEGRA SHIMANO 105 GRX	FD-R8000/FD-R7000/FD-5801/FD-RX810/FD-RX400	3	Y2BA12000
	ULTEGRA	FD-6800	3	Y5P116000
	SHIMANO 105	FD-5800		
	TIAGRA	FD-4700		
	SORA CLARIS	FD-R3000/FD-R2000	3	Y5YY00080

QUICK RELEASE

	Series	Model no. (Wheel)	Front/Rear	O.L.D.	Quick release skewer length	Code no.	Color	
	DURA-ACE	WH-R9200 Series	Front	100 mm	133 mm	Y0M498010	Series color	
			Rear	130 mm	163 mm	Y0M598010		
		WH-R9100 Series	Front	100 mm	133 mm	Y0B198010		Series color
	Rear	130 mm	163 mm	Y0E98010				
	WH-9000 Series	Front	100 mm	133 mm	Y28E98010	Series color		
		Rear	130 mm	163 mm	Y3DZ98010			
Rear		130 mm	168 mm	Y3DZ98020				
	ULTEGRA	WH-6800	Front	100 mm	133 mm	Y49Z98010	Series color	
			Rear	130 mm	163 mm	Y49Z98010		
	WH-R5700	Front	100 mm	133 mm	Y0D298010	-		
		Rear	130 mm	163 mm	Y0D298010			
	WH-R5500	Front	100 mm	133 mm	Y0E898010	-		
		Rear	130 mm	163 mm	Y0E898020			
WH-R5330	Front	100 mm	133 mm	Y02U98010	-			
	Rear	130 mm	163 mm	Y31P98010				
	RS	WH-R5330	Front	100 mm	133 mm	Y0F798010	-	
			Rear	130 mm	163 mm	Y0F898010		
		WH-R5300	Front	100 mm	133 mm	Y0F898010	-	
			Rear	130 mm	163 mm	Y0F898020		
		WH-R5100	Front	100 mm	133 mm	Y0F098010	-	
			Rear	130 mm	163 mm	Y0F198010		
	WH-R5100	Front	100 mm	133 mm	Y0F198020	-		
		Rear	130 mm	163 mm	Y0F198010			
	WH-RS81-C50	Front	100 mm	133 mm	Y49Z98010	-		
		Rear	130 mm	163 mm	Y49Z98010			
	WH-RS81-C24/C35	Front	100 mm	133 mm	Y49P98010	-		
		Rear	130 mm	163 mm	Y49R98010			
WH-R5610	Front	100 mm	133 mm	Y29B98010	-			
	Rear	130 mm	163 mm	Y31F98010				
WH-R5010	Front	100 mm	133 mm	Y45K98100	-			
	Rear	130 mm	163 mm	Y45K98110				
	RX	WH-RX830	Front	100 mm	133 mm	Y2UP98010	-	
			Rear	135 mm	168 mm	Y3E398010		
		WH-RX31	Front	100 mm	133 mm	Y44X98010	-	
			Rear	135 mm	168 mm	Y3TV98020		
		WH-RX010	Front	100 mm	133 mm	Y02U98010	-	
			Rear	135 mm	168 mm	Y02V98010		
	WH-RX05	Front	100 mm	133 mm	Y45K98100	-		
		Rear	135 mm	168 mm	Y45K98120			
		SHIMANO	WH-R501/R501-A	Front	100 mm	129 mm	Y45H98010	Black
					133 mm	163 mm	Y48G98210	Silver
				Rear	130 mm	163 mm	Y45K98120	Black
					130 mm	163 mm	Y48G98220	Silver
WH-R501-30			Front	100 mm	133 mm	Y45K98100	Black	
			Rear	130 mm	163 mm	Y45K98110		
WH-R500		Front	100 mm	133 mm	Y48G98210	Black		
		Rear	130 mm	163 mm	Y48G98220			
WH-R500		Front	100 mm	133 mm	Y48G98210	Black		
		Rear	130 mm	163 mm	Y48G98220			
		METREA	WH-U5000	Front	100 mm	133 mm	Y06F98010	-
				Rear	135 mm	172 mm	Y06G98010	
	176 mm				Y06G98020			

E-THRU AXLE

	MTB/Road	Model no.	Axle type	Axle length	Thread Pitch		Code no.
	For MTB	AX-MT700	142 x 12 mm	166 mm	M12 x P1.5	I-type (Left Housing)	EAXMT70014212
		AX-MT500					EAXMT50014212
		AX-MT700	148 x 12 mm	172 mm			EAXMT70014812
		AX-MT500					EAXMT50014812
		AX-MT700	157 x 12 mm	181 mm			EAXMT70015712
		AX-MT500					EAXMT50015712
		SM-AX76	142 x 12 mm	171 mm		Right fixing nut	ESMAX56A
		SM-AX56					ESMAX56B
		SM-AX76-B	148 x 12 mm	177 mm		-	ESMAX720F10012
		SM-AX56-B				-	ESMAX720R14212
	For Road/Urban	SM-AX720-100x12	100 x 12 mm	121 mm	-	-	ESMAX720F10012
		SM-AX720-142x12	142 x 12 mm	163 mm	-	-	ESMAX720R14212

BALL BEARING

Ball Bearing for Wheel/FREEHUB/Front Hub

Material	Ball Size	Package QTY	Part No.	Wheel	FREEHUB	Front Hub	Semi-bulk package (300 pcs.)		
Steel	1/4"	18	Y00091310	WH-6700-R/WH-RS610-TL-R/WH-RS330-R/WH-RS80-R/WH-RS61-TL-R/WH-RS31-R/WH-RS300-R/WH-RS21-CL-R/WH-RS11-R/WH-RS10(-A)-R/WH-RS100-R/WH-R501(-A)-R/WH-RX010-R/WH-RX05-R/WH-U5000-R/WH-MT500-CL-R/WH-MT65-66-68-R/WH-MT55-R/WH-MT35-R/WH-MT15-R/WH-RX010-R	FH-6700/FH-R7000/FH-5800/FH-5700/FH-4600/FH-3500/FH-2400/FH-RS505/FH-RS400/FH-RS300/FH-M7000/FH-M6000/FH-M675/FH-M665/FH-M615/FH-M590-595/FH-M4050/FH-M475/FH-M430-M435/FH-M3050/FH-T4000/FH-T3000/FH-TX800/FH-T610/FH-T670-675/FH-TX500-TX505/FH-UR600	-	Y13098620		
				20	Y00091210	WH-6800-R/WH-RS81-R/WH-RS500-R/WH-RS370-R/WH-RX31-R12/WH-RX830-TL-R/WH-M785-M788-R/WH-M8000-M8020-R/WH-MT68-MT66-R12/WH-U5000-R12	FH-6800/FH-CX75/FH-M828-825-820/FH-M810-815/FH-M8000-8010(-B)/FH-M785-788/FH-M7010(-B)/FH-M678/FH-M640-645-648/FH-M6010(-B)/FH-M618(-B)/FH-T780	HB-R505/HB-M618(-B)/HB-M3050/HB-MT200/HB-T3000/HB-TX800/HB-TX500/HB-TX505	Y13098621
						22	Y48B98030	WH-6700-F/WH-RS610-TL-F/WH-RS330-F/WH-RS80-F/WH-RS61-TL-F/WH-RS31-F/WH-RS300-F/WH-RS21-CL-F/WH-RS11-F/WH-RS10(-A)-F/WH-RS100-F/WH-R501(-A)-F/WH-RX31-F/WH-RX10-F/WH-RX05-F/WH-U5000-F/WH-MT500-CL-F/WH-MT65-66-F/WH-MT55-F/WH-MT35-F/WH-MT15-F/WH-RX010-F	-
	38	Y28F98020	WH-RX570-R	FH-M9000/FH-M9010	HB-M820			-	
	5/32"	34	Y48R98130	WH-R9170-R/WH-RS770-R/WH-RS700-R/WH-RS170-R/WH-M9000-9020-R/WH-M785-788-F15/WH-MT600-R/WH-MT500-R12(-B)/WH-R8170-R/WH-RS171-R	FH-RS470/FH-RS770/FH-R7070/FH-MT400	HB-M978/HB-M788	-		
				18	Y00091370	-	FH-MT200-B/FH-TY500	HB-7710-R/HB-7600-R	-
Stainless	3/16"	22	Y00091270	WH-R9100/WH-9000/WH-7900/WH-7850/WH-M988/WH-M985/WH-M980/WH-M975/WH-M970	FH-9000/FH-7900/FH-7850/FH-M988/FH-M985/FH-MX71	HB-7710-F/HB-7600-F	Y13098622		

The number of balls required for each model is different. Please refer to si.shimano.com.

FREEWHEEL BODY

Freewheel body		Speed	Spline type	Material	Series	Code no.	Wheel	FREEHUB
		ROAD 12-speed	HG spline L2	Aluminum	DURA-ACE	YOML98040	WH-R9270, WH-R9200	-
						YOAZ98050	WH-R9170	-
		ROAD 12-speed	HG spline L2	Titanium	DURA-ACE	Y3DZ98060	WH-R9100, WH-9000	FH-9000
						Y3EX98030	WH-R8170, WH-RS770, WH-RS700, WH-RX570	FH-RS770
		ROAD 11-speed	HG spline L	Steel	ULTEGRA, GRX, SHIMANO	Y49398060	WH-6800, WH-RS500, WH-RS81, WH-RX830	FH-6800, FH-CX75
						Y31F98070	WH-RS300, WH-RS330, WH-RS610	FH-R7000, FH-5800, FH-UR600, FH-RS505, FH-RS400
		ROAD 11-speed	HG spline L	Steel	SHIMANO	Y48U98040	WH-RS100, WH-RS010, WH-RX010	-
						Y45K98070	WH-RS370	-
		10/9/8-speed, MTB 11-speed	HG spline M	Steel	SHIMANO	Y0E598030	WH-MT600, WH-MT500	-
						Y0HE98010	WH-R501	-
		MTB 12-speed	MICRO SPLINE	Aluminum	DEORE XT	Y0FH98010	WH-M8100, WH-M8120	-
						Y0KD98040	WH-MT620, WH-MT501	FH-MT510, FH-MT500
		MTB 12-speed	MICRO SPLINE	Steel	SHIMANO	Y3HU98020*	WH-MT601	FH-MT410, FH-MT401
						Y3HU98020*	WH-MT601	FH-MT410, FH-MT401

*The part number is freewheel body unit only

Freewheel body and cassette sprocket spline compatibility

FREEHUB/Wheel		Compatible cassette sprocket type							
Free unit type	Model	Photo	MTB		ROAD			SHIMANO CUES	All
			12-speed CS-M9101-12 CS-M8100-12 CS-M7100-12 CS-M6100-12	11-speed CS-M9000 CS-M8000 CS-M7000-11 CS-M5100-11	12-speed CS-R9200-12 CS-R8100-12 CS-R7100-12 CS-HG710-12	11-speed CS-R9100 CS-R8000 CS-R7000	11-speed CS-HG800-11 CS-HG700-11	11/10-speed CS-LG700-11 CS-LG400-11 CS-LG400-10	
MICRO SPLINE	FH-M9111(-B, -BS), FH-M8130(-B, -BS), FH-M7110(-B), FH-M7130(-B), FH-M7140(-B), FH-MT401(-B), FH-MT500(-B), FH-MT510(-B), WH-M8100, WH-M8120, WH-MT620, WH-MT601, WH-MT501		X	-	-	-	-	-	-
HG spline L2 (ROAD 12-speed dedicated)	WH-R9200, WH-R9270		-	-	X	-	-	-	-
HG spline L (ROAD 12/11-speed)	FH-9000, FH-6800, FH-R7000, FH-R7070, FH-RS770, FH-RS400, FH-RS470, FH-UR600, WH-R9100, WH-R9170, WH-RS100, WH-RS710, WH-RS700, WH-RS500, WH-RS370, WH-RS330, WH-RS300, WH-RS171, WH-RS100, WH-RS010, WH-RX010, WH-RX870, WH-RX570		-	X *1	X	X	X *1	X *1 *4	X *2
HG spline M (10/9/8-speed, MTB 11-speed)	FH-M820, FH-M825, FH-M8000, FH-M8010(-B), FH-M756-A, FH-M6000, FH-M6010, FH-M525A, FH-M475, FH-M4050, FH-M3050, FH-MT400(-B), FH-MT200-B, FH-RM35, FH-TX505-8, FH-TX506, FH-TX500-8-QR(NT), FH-T610, FH-T3000, FH-RS300, WH-MT600, WH-MT500, WH-R501(-A)		-	X	-	-	X	X *4	X *3

*1 Need 1.85 mm low spacer. *2 Need 1.85 mm low spacer and 1.0 mm spacer for the cassette sprockets below. CS-7900/CS-7800/CS-6700/CS-6600/CS-5700/CS-5600 (1.0 mm spacer is included)

*3 Need 1.0 mm spacer for the 10-speed road cassette sprockets below. CS-7900/CS-7800/CS-6700/CS-6600/CS-5700/CS-5600

*4 See technical information (C-649) for LINKGLIDE cassette sprockets compatibility for the detail by model.

https://productinfo.shimano.com/#/com?acid=C-649&cid=C-544



WORKSHOP





WORKSHOP



Brake Shoes

	Usage	Model no.	Package	Qty/length	Code no.	
	Road brake block	R55C4	High-end brake shoe. Excellent performance in dry and wet conditions. For race use.	Cardboard box	50 pairs	Y8L298061
		R55C4 for carbon rim	High-end brake shoe for carbon rim. Excellent performance in dry and wet conditions. For race use.	Cardboard box	50 pairs	Y8L298071
	V-BRAKE cartridge brake block	M70R2 severe	High-end brake shoe. Excellent performance in wet and dry conditions. For race use.	Cardboard box	50 pairs	Y8AA98211
		S70C severe	High-end brake shoe. Performs well in dry conditions. Tends to be low noise.	Cardboard box	50 pairs	Y8A298031
	V-BRAKE shoe set	M70T3	Performs especially well in wet conditions. Gives off less noise. Faster rim wear and tends to fade.	Cardboard box	50 pairs	Y8BM98110
		S65T	Performs well in dry conditions. Tends to be low noise. Wears out in muddy conditions.	Cardboard box	50 pairs	Y8GP9803A


Disc brake pad, disc brake hose & accessory


	Category	Model no.	Package	Qty/length	Code no.	
	DISC BRAKE PADS SET	B055-RX	Cardboard box	25 pairs	EBP055RXBS	
		G05A-RX	Cardboard box	50 pairs	EBP055RXCS	
		G055-RX	Cardboard box	25 pairs	Y2R298011 EBPG05ARXBS	
		J04C-MF	Cardboard box	25 pairs	Y8LW98031 IBPJ04CMFBS	
		J05A-RF	Cardboard box	25 pairs	Y2R298021 EBPJ05ARFBS	
		L05A-RF	Cardboard box	25 pairs	Y2EM98011 EBPL05ARFBS	
	DISC BRAKE HOSE	D035-RX	Cardboard box	25 pairs	Y1XM98011 EBPD035RXBS	
		SM-BH90-SB	Black	Cardboard box	10 pcs./1,700 mm	Y13098590
		SM-BH59-SS	Black	Cardboard box	30 m	Y13098391
		SM-BH90-SS	Black	Cardboard box	30 m	Y13098582
		SM-BH59 Connecting insert		Workshop jar	100 pcs.	Y8H298046
		SM-BH90 Connecting insert		Workshop jar	100 pcs.	Y8JA98026
		SM-BH59/90 Olive		Workshop jar	100 pcs.	Y8H298047


Shifting inner cable & outer casing					
	Category	Model no.	Package	Qty/length	Code no.
 Polymer coated shifting inner cable	SHIFTING INNER CABLE	Polymer coated shifting inner cable	Cardboard box	20 pcs./2,100 mm	Y63Z98951
		OPTISLICK shifting inner cable	Cardboard box	50 pcs./2,100 mm	Y60198110
		Stainless steel shifting inner cable	Cardboard box	100 pcs./2,100 mm	Y60098630
		Steel shifting inner cable	Cardboard box	100 pcs./2,100 mm	Y60098520
 Black	SHIFT OUTER CASING	OT-SP41 Black	Cardboard box	50 m	Y60098580
		OT-SP41 Black	Roll	50 m	Y6009858A
		OT-SP41 White	Cardboard box	50 m	Y60098581
		OT-SP41 High-tech gray	Cardboard box	50 m	Y60098590
		OT-RS900 Black	Cardboard box	10 pcs./240 mm	Y0BM98011


Brake inner cable & outer casing					
	Category	Model no.	Package	Qty/length	Code no.
 Road Polymer coated brake inner cable	BRAKE INNER CABLE	Road Polymer coated brake inner cable	Cardboard box	20 pcs./2,000 mm	Y8YZ98051
		Road SIL-TEC coated stainless brake inner cable	Cardboard box	50 pcs./2,050 mm	Y80098571
		Road stainless steel brake inner cable	Cardboard box	100 pcs./2,050 mm	Y80098561
		Road Steel brake inner cable	Cardboard box	100 pcs./2,050 mm	Y80098531
		MTB stainless steel brake inner cable	Cardboard box	100 pcs./2,050 mm	Y80098551
		MTB steel brake inner cable	Cardboard box	100 pcs./2,050 mm	Y80098521
		 BC-9000 brake outer casing Black	BRAKE OUTER CASING	BC-9000 brake outer casing Black	Cardboard box
BC-9000 brake outer casing Black	Roll			40 m	Y8YZA048B
SLR brake outer casing Black	Cardboard box			40 m	Y80900011
SLR brake outer casing Black	Roll			40 m	Y8090001A
SLR brake outer casing High-tech gray	Cardboard box			40 m	Y80900012
SLR brake outer casing White	Cardboard box			40 m	Y80900015
M-System brake outer casing Black	Cardboard box			40 m	Y80900013
M-System brake outer casing Black	Roll			40 m	Y8090001B
M-System brake outer casing High-tech gray	Cardboard box			40 m	Y80900014

Caps/Small parts					
	Category	Model no.	Package	Qty/length	Code no.
 Outer cap with short tongue for road ST	OUTER CASING CAP	Outer cap with short tongue for road ST	Workshop jar	100 pcs.	Y63Z98810
		Outer cap with long tongue for polymer-coated inner cable	Workshop jar	100 pcs.	Y63Z98960
		Outer cap steel for shift/brake cable	Workshop jar	200 pcs.	Y60B98011
		Outer cap resin for SP40/41	Workshop jar	200 pcs.	Y6ZA98012
		Outer cap resin sealed for SP40/41	Workshop jar	200 pcs.	Y6Z298012
		Outer cap aluminum sealed for RD	Workshop jar	100 pcs.	Y6YX90011
		Outer cap with tongue & rubber shield for SP40/41	Workshop jar	50 pcs.	Y6AM98085
		Outer cap for ST-7900	Workshop jar	50 pcs.	Y6RT98175
		 Shifting inner cable end cap (ø 1.2 mm)	INNER CABLE CAP	Shifting inner cable end cap (ø 1.2 mm)	Workshop jar
Brake inner cable end cap (ø 1.6 mm)	Workshop jar			500 pcs.	Y62098045

Cassette Sprockets						
	Model no.	Speed	Gear combination	Package	Qty/length	Code no.
 CS-HG500-10	CS-HG500-10	10-speed	11-34T	Cardboard box	10 pcs.	ICSHG500101345
	CS-HG50-10	10-speed	11-36T	Cardboard box	10 pcs.	ICSHG50101365
	CS-HG400-9	9-speed	11-32T	Cardboard box	10 pcs.	ICSHG40091325
			11-34T	Cardboard box	10 pcs.	ICSHG40091345
	CS-HG50-9	9-speed	12-25T	Cardboard box	10 pcs.	ICSHG5092255
	CS-HG51-8	8-speed	11-30T	Cardboard box	10 pcs.	ECSHG5181305
	CS-HG50-8	8-speed	13-26T	Cardboard box	10 pcs.	ICSHG5083265
	CS-HG41-7	7-speed	11-28T	Cardboard box	10 pcs.	ECSHG4171285

Rotor					
	Model no.	Package	Qty/length	Code no.	
 SM-RT54	SM-RT54-M	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT54MXS
	SM-RT54-S	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT54SXS
	SM-RT64-M	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT64MXSC
	SM-RT64-S	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT64SXS
	SM-RT66-M		Cardboard box	10 pcs.	ESMRT66MS
	SM-RT66-S		Cardboard box	10 pcs.	ESMRT66SS

Chains							
	Category	Model no.	Speed	Package	Qty/length	Code no.	
 CN-HG71	Chain pins	CN-HG601-11 w/ QUICK-LINK	11-speed	Cardboard box	20 pcs.	ICNHG6011116Q5	
		CN-HG601-11 w/ ampoule type connect pin	11-speed	Cardboard box	20 pcs.	ICNHG60111165	
		CN-HG95	10-speed	Cardboard box	20 pcs.	ICNHG95116IS	
		CN-HG54	10-speed	Cardboard box	20 pcs.	ICNHG54116IS	
		CN-HG53	9-speed	Cardboard box	20 pcs.	ECNHG53C116IS	
		CN-HG71	8/7/6-speed	Cardboard box	20 pcs.	ECNHG71C116IS, ECNHG71T116IS	
		CN-HG40	8/7/6-speed	Cardboard box	20 pcs.	ECNHG40115S, ECNHG40T115S	
		CN-NX10	Single speed	Cardboard box	20 pcs.	ECNNX10C114S	
		CN-E6090-10	10-speed E-BIKE	Cardboard box	20 pcs.	ICNE609010118IS	
		CN-E6070-9	9-speed E-BIKE	Cardboard box	20 pcs.	ICNE60709118IS	
		For 11-speed chain	With sharp nose	11-speed	Workshop jar	100 pcs.	Y0AH98016
		For 10-speed chain except CN-7800	With two lines	10-speed	Workshop jar	100 pcs.	Y08X98026
		For 9-speed chain	Silver color	9-speed	Workshop jar	100 pcs.	Y06998026
For 8/7/6-speed chain	Black color	8/7/6-speed	Workshop jar	100 pcs.	Y04598026		

Ball Bearing for Hub					
	Material	Ball Size	Per unit QTY	Part no.	Package
 Y13098620	Steel	1/4"	300	Y13098620	Workshop jar
	Steel	3/16"	300	Y13098621	Workshop jar
	Stainless	3/16"	300	Y13098622	Workshop jar

TOOLS

Surgically precise for excellent service every time.



ROAD

MTB


TOOLS

17 mm wrench drive	18 mm wrench drive	24 mm wrench drive	32 mm wrench drive	36 mm wrench drive	15 mm cone wrench
SHIMANO chain tool driving pin Special driving pin retains the excess ring of the removed rivet pin	Rotating driving pin Ball bearing supported driving pin axle reduces handle rotation effort	Molybdenum treatment on axle threads for smoother rotation	Connecting pilot guide pin remover Easily breaks off the pilot guide connecting pin	3 position rotatable head Adjustable head makes operation easier	8 mm thru axle
12 mm thru axle	15 mm thru axle	20 mm thru axle	20 - 29 inch Compatible with 20 - 29 inch size wheel	20-tooth splined cartridge BB	Ergonomic design Ergonomic design reduces stress and enables efficient power transfer
Guide Pin Ideal sized guide pin stabilizes the tool	Laser cut Laser cut profile gives the tool high precision	Liner needle Liner needle for reshaping deformed inner liner of outer casing	Numerical measurement Numerical measurement for precise and refined adjustability	Offset design Offset design makes operation less stressful, more efficient	Square Bottom bracket
Telescopic handle Telescopic handle keeps the tool compact in storage	1/2" x 1/8" Compatible with 1/2" x 1/8" size tooth	1/2" x 3/32" Compatible with 1/2" x 3/32" size tooth			

Cassette sprocket/Multiple freewheel/Disc brake rotor


TL-LR10
Lock ring tool

Usage	For installation and removal of lock ring for rotors and cassette sprockets
USP	Hardened steel for rigidity and durability
Remark	Cannot be used for multiple freewheels due to the difference in dimensions
Code no.	Y12009220




TL-LR11
Lock ring tool

Usage	Installation and removal tool of lock ring for SM-RT10 and TL-FC36 can also be used for SM-RT10
USP	Hardened steel for rigidity and durability
Remark	Cannot be used for multiple freewheels due to the difference in dimensions
Code no.	Y8PW04100




TL-LR15
Lock ring tool (with guide pin)

Usage	For installation and removal of lock ring for rotors and cassette sprockets
USP	<ul style="list-style-type: none"> Guide pin stabilizes the tool Hardened steel for rigidity and durability
Remark	Cannot be used for multiple freewheels due to the difference in dimensions
Code no.	Y12009230



TL-LR20
Lock ring tool for SM-RT80

Usage	For installation and removal of lock ring of SM-RT80 (oversized CENTER LOCK)
USP	Hardened steel for rigidity and durability
Remark	Cannot be used for multiple freewheels or normal CENTER LOCK lock rings due to the difference in dimensions
Code no.	Y25U15000




With TL-SR23

Service Tips

Lock ring tool guide

There are three types of brake rotor fixing lock rings in our line-up. Each type requires a different tool for installation.

	Internally serrated type	Internally and externally serrated type*	Externally serrated type
Disc brake rotor fixing lock ring			
Lock ring tightening tool	For internally serrated type 	For internally serrated type 	For externally serrated type
	TL-LR15 (Y12009230) + adjustable wrench	TL-LR11 (Y8PW04100) + adjustable wrench	TL-FC36 (Y13098000)

* Included with SM-RT30 and SM-RT10

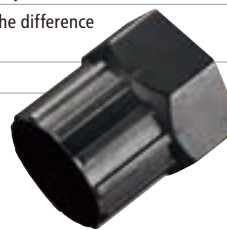
The gear that's just as important as components: professional tools.

As a matter of course, a bike consists of various elements. So high-level maintenance is required to get the best performance out of each component. Moreover, high precision, usability and a unified design are very important elements for maintenance tools. That's why we at SHIMANO are determined to continue to create high-performance maintenance tools. We will do everything possible to develop professional tools not just for SHIMANO products, but also for the maintenance of bikes in general. SHIMANO tools have an engineered shape to perfectly fit SHIMANO components. The serration dimension of the tools is designed to match the component shape including allowance.

Cassette sprocket/Multiple freewheel/Disc brake rotor


TL-FW30
Multiple freewheel tool

Usage	For installation and removal of multiple freewheel
USP	Hardened steel for rigidity and durability
Remark	Cannot be used for lock rings due to the difference in dimensions
Code no.	Y12009050




TL-FW40
Single freewheel tool

Usage	For installation and removal of single freewheel SF-1200
USP	Hardened steel for rigidity and durability
Code no.	Y1200904T




TL-FW45
BMX freewheel tool

Usage	For installation and removal of BMX freewheel SF-MX30
USP	Hardened steel for rigidity and durability
Code no.	Y12009150




TL-HG09
Lock ring tool for CS-HG70-S

Usage	For installation and removal of lock ring of CS-HG70-S (CAPREO)
USP	Hardened steel for rigidity and durability
Code no.	Y12702000



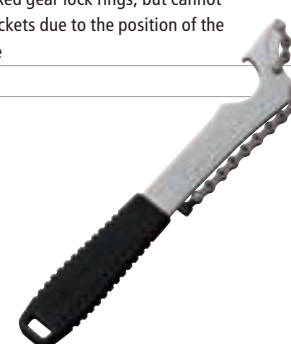
TL-SR24
9-12-speed compatible sprocket remover

Usage	Holds 9-12 speed sprockets to remove lock ring with TL-LR15/20
USP	<ul style="list-style-type: none"> Curved head design for better grip on gears Precise and durable SHIMANO chain equipped Chrome plated chromoly blade for durability and rigidity Magnet at the end of the chain holds the chain for easier storage Ergonomic handle
Compatibility	SHIMANO 9-12 speed cassette sprocket
Remark	This tool cannot remove fixed gear sprockets due to the position of the chain fixed to the blade
Code no.	Y13098730




TL-SR23
6-11-speed compatible sprocket remover

Usage	Holds 6-11 speed sprockets to remove lock ring with TL-LR15/20
USP	<ul style="list-style-type: none"> Curved head design for better grip on gears Precise and durable SHIMANO chain equipped Chrome plated chromoly blade for durability and rigidity Magnet at the end of the chain holds the chain for easier storage Ergonomic handle
Remark	This tool can remove fixed gear lock rings, but cannot remove fixed gear sprockets due to the position of the chain fixed to the blade
Code no.	Y13098510



TL-SR22
Sprocket remover for fixed gear sprocket/fixed gear lock ring tool

Usage	<ul style="list-style-type: none"> For removal of 1/2" x 1/8" & 1/2" x 3/32" fixed gear sprocket For installation and removal of fixed gear lock ring
USP	<ul style="list-style-type: none"> Chrome plated chromoly blade for durability and rigidity Precise and durable chain Ergonomic handle
Code no.	Y12189010



Bottom bracket

TL-FC24
Bottom bracket cup tool

Usage	For installation and removal of BB-R9100
USP	<ul style="list-style-type: none"> • Adaptor style tool to use with TL-FC36 • Glass reinforced resin
Code no.	Y13009240



TL-FC25
SM-BBR60 bottom bracket cup tool

Usage	For installation and removal of SM-BBR60
USP	<ul style="list-style-type: none"> • Adaptor style tool to use with TL-FC36 • Glass reinforced resin
Code no.	Y13009260



TL-FC34
Bottom bracket cup tool



Usage	For installation and removal of SM-BB9000, SM-BB93
USP	<ul style="list-style-type: none"> • Impact wrench version of TL-FC24 • Precise spline profile • Hardened steel for rigidity and durability
Code no.	Y13009250



TL-FC33
HOLLOWTECH II bottom bracket cup tool



Usage	For installation and removal of HOLLOWTECH II/2-PIECE CRANKSET bottom bracket cup tool
USP	<ul style="list-style-type: none"> • Impact wrench version HOLLOWTECH II/2-PIECE CRANKSET bottom bracket tool • Precise spline profile • Hardened steel for rigidity and durability
Code no.	Y13009230



TL-FC36
HOLLOWTECH II bottom bracket cup tool



Usage	<ul style="list-style-type: none"> • For installation and removal of HOLLOWTECH II/2-PIECE CRANKSET bottom bracket cup tool • For installation and removal of disc brake rotor lock ring for 20 mm axle/15 mm E-THRU axle hub
USP	<ul style="list-style-type: none"> • Offset design allows turning the tool without touching the chain stay • Precision laser cut profile for a secure fit • Chrome plated chromoly body for durability and rigidity • Ergonomic handle
Code no.	Y13098000



TL-FC32
HOLLOWTECH II bottom bracket cup tool



Usage	For installation and removal of HOLLOWTECH II/2-PIECE CRANKSET bottom bracket cup tool
USP	Hardened steel for rigidity and durability
Code no.	Y13009210



TL-FC37
SM-BBR60 bottom bracket cup tool



Usage	For installation and removal of SM-BBR60
USP	<ul style="list-style-type: none"> • Impact wrench version of TL-FC25 • Precise spline profile • Hardened steel for rigidity and durability
Code no.	Y13009270



Bottom bracket

TL-BB12
Press-fit bottom bracket installation tool



Usage	For installation of HOLLOWTECH II press-fit bottom bracket
USP	<ul style="list-style-type: none"> • Compatible with up to 107 mm bottom bracket shell width • Hardened steel for rigidity and durability
Remark	10 mm longer axle than Y13098250
Code no.	Y13098255



TL-BB13
Press-fit bottom bracket removal tool



Usage	For removal of HOLLOWTECH II press-fit bottom bracket
USP	<ul style="list-style-type: none"> • Minor change to be compatible with SM-BB92 • Hardened steel for rigidity and durability
Code no.	Y13098262



TL-UN66
Cartridge bottom bracket tool



Usage	For installation and removal of 20-tooth splined cartridge bottom bracket such as OCTALINK and square bottom bracket
USP	Hardened steel for rigidity and durability
Compatibility	BB-UN/ES/6500/5500/7700/7703/7710/M952
Code no.	Y13009075



TL-UN74-S
Cartridge bottom bracket tool



Usage	For installation and removal of 20-tooth splined cartridge bottom bracket such as OCTALINK and square bottom bracket
USP	<ul style="list-style-type: none"> • Economical and compact version of TL-UN66 • Hardened steel for rigidity and durability
Compatibility	BB-UN/ES/6500/5500/7700/7703/7710/M952
Code no.	Y13009073



TL-FC31
Head set/pedal/lock nut spanner set



Usage	<ul style="list-style-type: none"> • 32 mm wrench for head set adjustment • 15 mm pedal wrench • Installation and removal of BB-7700/M950 lock nut
USP	<ul style="list-style-type: none"> • Set of 2 multi-functional spanners • Chrome plated heat treated carbon steel for rigidity and durability
Remark	<ul style="list-style-type: none"> • 32 mm spanner can turn TL-UN/96/UN74-S/UN66/FC33/HA20 • Can also be used for lock nut adjustment of HB-M810 (20 mm axle)
Code no.	Y13098100



Crankset

TL-FC40 Power meter crank arm tool

Usage	For installation and removal of crank fixing bolt for SHIMANO power meter
Code no.	YEZY00017



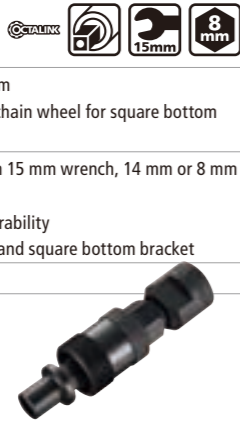
TL-FC16 HOLLOWTECH II crank arm tool

Usage	For installation and removal of HOLLOWTECH II/2-PIECE CRANKSET crank arm fixing bolt
Code no.	Y13009220



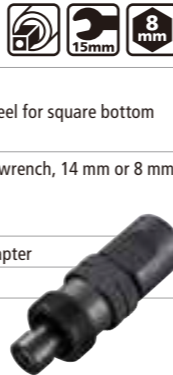
TL-FC11 Cotterless crank arm extractor

Usage	<ul style="list-style-type: none"> For removal of cotterless crank arm Installation and removal of front chain wheel for square bottom bracket with 14 mm fixing bolt
USP	<ul style="list-style-type: none"> Internal puller can be rotated with 15 mm wrench, 14 mm or 8 mm hexagon wrench Hardened steel for rigidity and durability Compatible with both OCTALINK and square bottom bracket
Code no.	Y13098210



TL-FC10 Cotterless crank arm extractor

Usage	<ul style="list-style-type: none"> For removal of cotterless crank arm Installation and removal of front chain wheel for square bottom bracket with 14 mm fixing bolt
USP	<ul style="list-style-type: none"> Internal puller can be rotated with 15 mm wrench, 14 mm or 8 mm hexagon wrench Hardened steel for rigidity and durability
Remark	For OCTALINK cranks, use TL-FC15 as an adapter
Code no.	Y13009010



TL-FC15 Crank extractor adapter

Usage	Adapter use with TL-FC10 for installation and removal of OCTALINK cranks
Code no.	Y13009180



TL-FC18 HOLLOWTECH II crank arm tool

Usage	For installation and removal of HOLLOWTECH II/2-PIECE CRANKSET crank arm fixing bolt
USP	<ul style="list-style-type: none"> Professional version of TL-FC16 Chrome plated steel head for durability Ergonomic handle makes it easier to loosen the firmly fixed crank arm fixing bolt
Remark	Be careful not to overtighten the crank fixing bolt
Code no.	Y13098280



TL-FC22 Chainring nut T40 wrench/peg spanner

Usage	Holds the slotted Hexalobular T40 chainring fixing nut securely during the installation and removal of the chainring
USP	<ul style="list-style-type: none"> Professional version of TL-FC21 Chrome plated for durability Guide pin stabilizes the tool Ergonomic design
Remark	Best to use with TL-FC23
Code no.	Y13098240



TL-FC23 Chainring bolt T30 wrench with 5 mm hex

Usage	For tightening and loosening the T30 or 5 mm hex chainring bolts
USP	<ul style="list-style-type: none"> Extremely high precision and rigidity to loosen the firmly tightened bolts Long reach design for better leverage and access Chrome plated for durability Ergonomic grip
Remark	Best to use with TL-FC22
Code no.	Y13098230



Crankset

TL-FC21 Peg spanner

Usage	<ul style="list-style-type: none"> 3 claw end - Holds the slotted chainring fixing nut securely during the installation and removal of the chainring 2 claw end - For installation and removal of the one key release crank cap
USP	<ul style="list-style-type: none"> 133 mm over all length for better leverage (30 mm longer than the previous model TL-FC20) Can be also used as 9 mm and 10 mm wrench Hardened steel for rigidity and durability
Code no.	Y13009700



TL-FC41 Front chainring direct mount tool

Usage	Installation and removal of chainring lock rings
USP	<ul style="list-style-type: none"> Adapter style to use with TL-FC36, TL-FC33 or TL-FC32 Precise spline profile Hardened steel for rigidity and durability
Compatibility	FC-M9100/M9120/M9130/M8100/M8120/M8130/M7100/M7120/M7130/M6100/M6120
Remark	Adapter style to use with TL-FC36, TL-FC33 or TL-FC32
Code no.	Y13098720



Chain

TL-CN10 QUICK-LINK connecting & removing pliers

Usage	Connecting and removing SHIMANO QUICK-LINK
USP	<ul style="list-style-type: none"> 2-in-1 operation pliers that allow SHIMANO QUICK-LINK to be installed and removed manually Simple and easy to use Ergonomic and comfortable handles offer excellent grip Wire latch holds handles together when not in use Great to use at home and in the workshop
Code no.	Y13022000



TL-CN28 6-11-speed compatible chain tool

Usage	For cutting and connecting SHIMANO 6-11-speed chain (HG-EV/HG-X/HG/IG/UG chain) & 1/2" x 1/8" (CN-NX10)
USP	<ul style="list-style-type: none"> Home mechanic chain tool Ergonomic handle and grip SHIMANO special driving pin retains the excess ring of the removed 10/11-speed rivet pin for smooth operation Ball bearing between the driving pin and the axle enables handle rotation with less effort Molybdenum treatment on the thread of the axle for smoother rotation With connecting pin guide remover
Code no.	Y13098500

Spare arrow

Code no.	Y13098190
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TL-CN29 9-12-speed compatible chain tool

Usage	For cutting and connecting SHIMANO 9-12-speed chain
USP	<ul style="list-style-type: none"> Home mechanic chain tool Ergonomic handle and grip SHIMANO special driving pin retains the excess ring of the removed rivet pin for smooth operation Ball bearing between the driving pin and the axle enables handle rotation with less effort Molybdenum treatment on the thread of the axle for smoother rotation With connecting pin guide remover
Compatibility	SHIMANO 9-12-speed chain
Remark	Home mechanic chain tool
Code no.	Y13098700

Spare arrow

Code no.	Y13098190
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Chain

TL-CN34 6-11-speed compatible professional chain tool



Usage	For cutting and connecting SHIMANO 6-11-speed chain (HG-EV/HG-X/HG/IG/UG chain) & 1/2" x 1/8" (CN-NX10)
USP	<ul style="list-style-type: none"> Deluxe workshop quality chain tool Oversize ergonomic lever for increased leverage, grip and comfort SHIMANO special driving pin retains the excess ring of the removed 10/11-speed rivet pin for smooth operation Ball bearing between the driving pin and the axle enables handle rotation with less effort Molybdenum treatment on the axle thread for smoother rotation With connecting pin guide remover Nickel plated Supplied with 2 spare pins in grip storage compartment
Code no.	Y13098550

Spare pins (10 pins)

Code no. Y13098551



TL-CN35 9-12-speed compatible professional chain tool



Usage	For cutting and connecting SHIMANO 9-12-speed chain
USP	<ul style="list-style-type: none"> Deluxe workshop quality chain tool Oversize ergonomic lever for increased leverage, grip and comfort SHIMANO special driving pin retains the excess ring of the removed rivet pin for smooth operation Ball bearing between the driving pin and the axle enables handle rotation with less effort Molybdenum treatment on the axle thread for smoother rotation With connecting pin guide remover Nickel plated Supplied with 2 spare pins in grip storage compartment
Compatibility	SHIMANO 9-12-speed chain
Remark	Deluxe workshop quality chain tool
Code no.	Y13098710

Spare pins (10 pins)

Code no. Y13098551



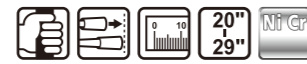
TL-CN42 Chain wear indicator

Usage	Check the wear of chains accurately, easily and quickly
USP	<ul style="list-style-type: none"> High-precision laser-cut construction Unique 3-pin structure allows accurate measurement (see p. 43) Heat-treated stainless steel
Remark	A worn chain loses the original shifting performance and wears sprockets and chainrings faster
Code no.	Y12160000



Rear derailleur

TL-RD11 Rear dropout alignment tool



Usage	For rear fork end alignment
USP	<ul style="list-style-type: none"> Universal size to fit most wheel sizes (20-29 inch) Precise numerical measurement with scale Rotatable scale enables easy operation without interference by chain and seat stays Index system makes it possible for the scale to go back to the measurement position after rotation Narrow alignment boss to fit a wide variety of bikes Tool box friendly telescopic handle Ergonomic handle Threading a bolt to the M4 female thread at the end of the spindle stabilizes and reduces the load on the fork end thread during the alignment operation Chrome plated carbon steel for durability and rigidity
Code no.	Y13098270



Front derailleur

TL-FD68 Cable fixing point checking tool

Usage	To choose cable fixing route with converter
Compatibility	FD-9000/6800/5800/4700
Code no.	Y5P598010



TL-FDR30 Cable fixing point checking tool

Usage	To choose cable fixing route with converter
Compatibility	FD-R3000/R2000
Code no.	Y07A98010



TL-FDM905 Removal assembly tool

Usage	For removal and assembly guide plate
Compatibility	FD-M9050/M9070
Code no.	YEZY00001



Shifting/Brake cable

TL-CT12 Cable cutter



Usage	<ul style="list-style-type: none"> Cut inner cable and outer casing Reform the shape of outer casing end Crimp the inner cable end cap
USP	<ul style="list-style-type: none"> Substantially improved sharpness and durability from previous TL-CT11 Decreased opening angle of the handles for better ergonomics Needle for reshaping the inner liner of the outer casing Built-in cable end crimper Chrome plated carbon steel for rigidity and durability Ergonomic handle
Code no.	Y09898010



Improved design



Shift/Brake lever

Special E-ring removal tool for ST

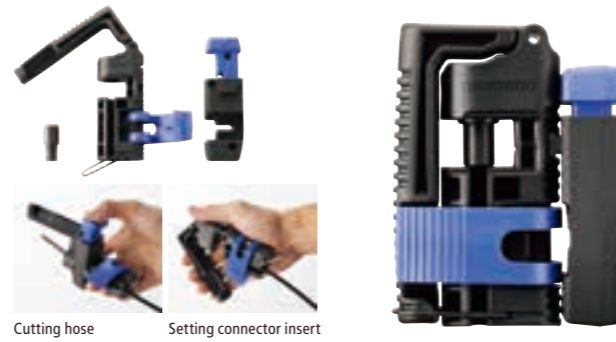
Usage	Bracket and lever disassembly
Code no.	Y6RT68000 (tool A) / Y6RT66000 (tool B)



Hydraulic disc brake

TL-BH62 Disc brake hose cut & set tool

Usage	<ul style="list-style-type: none"> Cut hydraulic disc brake hoses Set connector inserts to hoses
USP	<ul style="list-style-type: none"> 2-in-1 operation tool Cut hoses easily and precisely at 90 degree Sets connector insert into hose easily and securely Adjustable hose clamping power Compact size for easy storage Spare blade included Hole to run string or wire for hanging
Code no.	Y13098570



TL-BR001 SYRINGE UNIT

Usage	<ul style="list-style-type: none"> Filling, flushing and bleeding of hydraulic disc brakes Connecting syringe hose and BR bleed nipple
USP	<ul style="list-style-type: none"> Limits leaking, dripping or any form of oil spilling Reliable and clean tube connection Increased volume and smooth action Compact and durable design
Code no.	Y13000080



TL-BR002 FUNNEL UNIT FOR ST

Usage	<ul style="list-style-type: none"> Bleeding of hydraulic disc brakes (M7*0.75)
USP	<ul style="list-style-type: none"> Limits any form of oil spilling Increased volume Durable material, long life time
Code no.	Y13000090



TL-BR003 FUNNEL UNIT FOR BL

Usage	<ul style="list-style-type: none"> Bleeding of hydraulic disc brakes (M5*0.8)
USP	<ul style="list-style-type: none"> Limits any form of oil spilling Increased volume Durable material, long life time
Code no.	Y13000100



TL-BR PROFESSIONAL DISC BRAKE BLEED KIT Professional disc brake bleed kit

Usage	The kit includes: TL-BR001 TL-BR002 TL-BR003 4 types of bleeding spacers
Code no.	Y13098630



Hub

- TL-7S20 (Hub spanner 17 mm x 22 mm) / Y13098900
- TL-HS21 (Hub spanner 15 mm x 23 mm) / Y3C228000
- TL-HS22 (Hub spanner 17 mm x 24 mm) / Y3C227000
- TL-HS23 (Hub spanner 18 mm x 28 mm) / Y20W04000

Usage	For assembly, disassembly and adjustment of hubs
USP	Hardened steel for rigidity and durability



- TL-HS33 (Hub spanner 13 mm) / Y23098000
- TL-HS34 (Hub spanner 14 mm) / Y23098010
- TL-HS35 (Hub spanner 15 mm) / Y23098020
- TL-HS37 (Hub spanner 17 mm) / Y23098030
- TL-HS38 (Hub spanner 18 mm) / Y23098040
- TL-HS42 (Hub spanner 22 mm) / Y23098050
- TL-HS43 (Hub spanner 23 mm) / Y23098060



Usage	For assembly, disassembly and adjustment of hubs
USP	<ul style="list-style-type: none"> Precision laser cut profile for a secure fit Chrome plated cromoly steel for durability and rigidity Ergonomic handle



Hub

TL-FH15 15 mm hex wrench

Usage	For assembly and disassembly of 12 mm thru-axle freewheel body
USP	<ul style="list-style-type: none"> Hardened steel for rigidity and durability High precision
Code no.	Y13098012



TL-HB16 Hub setting tool for thru-axle hubs



Usage	Use as an adaptor to set the 20/15/8 mm thru axle hub to the truing stand
Code no.	Y20W98020



TL-FH16 Seal ring installation tool

Usage	Seal ring installation tool for DIRECT ENGAGEMENT/MICRO SPLINE FREEHUB body
USP	Install seal ring without any deformation
Code no.	Y1Y100010



TL-WHR92 Nipple wrench and aero spoke holder

Usage	Nipple wrench for new size nipple on one side, and aero spoke holder for new size spoke on the other side
Code no.	Y0MK14000



TL-FH12 Hub setting tool for 12 mm thru-axle FH



Usage	Use as adaptors to set the 12 mm thru-axle FH to the truing stand
USP	Precisely machined
Code no.	Y13098011



TL-FH17 Seal ring installation tool

Usage	Seal ring installation tool for DIRECT ENGAGEMENT/HG spline L2 FREEHUB body
USP	Install seal ring without any deformation
Code no.	Y1Y100020



Pedal

TL-HS40
Cone adjusting wrench 20 mm



Usage	For assembly, disassembly and adjustment of PD-9000/7900/7800/7700
USP	<ul style="list-style-type: none"> • Precision laser cut profile for a secure fit • Chrome plated cromoly steel for durability and rigidity • Ergonomic handle
Code no.	Y13098320



TL-PD40
Pedal axle tool



Usage	For installation and removal of the pedal axle with 10 teeth lock bolt
Code no.	Y42A09000



TL-PD63
Pedal cone adjusting tool (7 mm x 8 mm & 10 mm x 11 mm)



Usage	For adjustment of bearing on pedal axle
USP	<ul style="list-style-type: none"> • Special tool to adjust pedal bearings • Hardened steel for rigidity and durability
Compatibility	Pedal with 7 mm lock nut and 10 mm cone/8 mm lock nut/11 mm cone
Code no.	Y46098630



NEW TL-PD400
Pedal cone adjusting tool (7 mm x 10 mm & 10 mm x 13 mm)



Usage	For adjustment of bearing on pedal axle
USP	<ul style="list-style-type: none"> • Special tool to adjust pedal bearings • Hardened steel for rigidity and durability
Compatibility	Pedal with 7 mm lock nut and 10 mm cone/10 mm lock nut and 13 mm cone
Code no.	Y40098020



NEXUS/ALFINE

TL-DH10
Internal assembly removal tool

Usage	For removal of right hand internal assembly unit (32 mm/36 mm)
USP	Can be used for 2 different lock nut sizes (32 mm/36 mm) on right hand hub cap
Compatibility	All models except DH-2R30/2R35/3R30/3R35
Code no.	Y12009000



TL-8S11
Right hand cone removal tool

Usage	For removal of right hand cone
USP	Hardened steel for rigidity and durability
Compatibility	SG-8R56/8R55/8R45/8R36/8R35/8R31/8R30/8R27/8R25/8R20/8C56/8C45/8C31/8C22/8C20/E500/S500/S501/S505/C6000/C6001/C6010/C6011
Code no.	Y70800600



TL-S701
Right hand cone removal tool

Usage	For removal of right hand cone
USP	Hardened steel for rigidity and durability
Compatibility	SG-S700/S705/S7001/S7051
Code no.	Y13098021



TL-C7001
Right hand cone removal tool

Usage	Right hand cone removal tool
Compatibility	SG-C7000
Remark	NEXUS
Code no.	Y70821000



NEXUS/ALFINE

TL-8S20
Right hand cone installation tool

Usage	For installation of right hand cone
USP	Hardened steel for rigidity and durability
Compatibility	SG-8R36/8R35/8R31/8R30/8R27/8R25/8R22/8R20/C6000/C6001/C6010/C6011
Code no.	Y70800200



TL-AF20
Right hand cone installation tool

Usage	For installation of right hand cone
USP	Hardened steel for rigidity and durability
Compatibility	SG-S500/S501/S7000/S7001/C6000/C6001
Code no.	Y70810000



TL-S702
Right hand cone installation tool

Usage	For installation of right hand cone
USP	Hardened steel for rigidity and durability
Compatibility	SG-E500/S505/S700/S705/S7001/S7051/C6060/C6061
Code no.	Y13098022



TL-AF10
Right hand dust cap A installation tool

Usage	For installation of right hand dust cap A
USP	<ul style="list-style-type: none"> • Special tool to easily install/remove right hand dust cap A • Hardened steel for rigidity and durability
Compatibility	SG-S500/S501/S505/S700/S705/S7000/S7001/S7051
Code no.	Y32010000



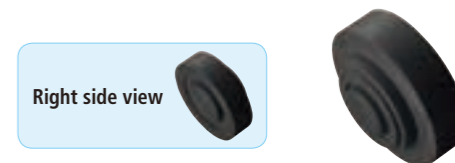
TL-AF30
Left hand inner dust cap installation tool

Usage	For installation of left hand inner dust cap
USP	Hardened steel for rigidity and durability
Compatibility	SG-SD55/S500/S501/S505/S7000/S7001/S7051
Code no.	Y70811000



TL-S704
Seal set tool

Usage	For installation of seal ring L and seal ring R
USP	Hardened steel for rigidity and durability
Compatibility	SG-S700/S705/S7001/S7051
Code no.	Y70819000



TL-8S30
Carrier unit gear alignment tool

Usage	For alignment of carrier unit gear
Compatibility	SG-8R56/8R45/8R36/8R35/8R31/8R30/8R25/8R20/8C56/8C45/8C31/8C22/8C20/C6000/C6001/C6010/C6011/C6060/C6061/S500/S501/S505/S7000/S7001/S7051
Code no.	Y70800300



TL-IM21
Brake inner cable fixing tool

Usage	<ul style="list-style-type: none"> • For fixing the brake inner cable at the required length from the outer casing holder unit • BR-IM85-F/IM-86-F : 101 mm • BR-IM45-F/IM55-F/IM80-F/IM81-F : 109 mm • BR-IM45-R/IM55-R/IM80-R/IM81-R : 99 mm
USP	Can be used for 3 different lengths (101 mm/109 mm/99 mm)
Code no.	Y75W98021



NEXUS/ALFINE

TL-CJ40
Inner cable fixing bolt setting tool

Usage	For measuring shifting inner cable and mounting fixing bolt at required length (101 mm/127 mm)
USP	Can be used for 2 different lengths (101 mm/127 mm)
Compatibility	CJ-8S20/8S40, CJ-NX10/NX40
Code no.	Y70898020



TL-S700-B
Inner cable fixing bolt setting tool

Usage	For measuring shifting inner cable and mounting fixing bolt at required length (184 mm for 11s, 145 mm for 8s)
Compatibility	SL-S700 (11s), SL-S7000/7001-8 (8s), SL-C7000-5 (5s)
Code no.	Y72A06000



TL-S703

Usage	For oil replacement of internal hub
Compatibility	SG-S700/S705/S7001/S7051
Code no.	Y13098023

Tube set

Code no.	Y13098025
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TL-SGE1
Gear position alignment tool

Usage	For aligning the initial 1st gear position when assembling MU-S705
Compatibility	SG-E500/S705/S7051/S505/C6060/C6061
Code no.	Y20W10000



SHIMANO STEPS

TL-FC38
Lock ring tool for DU-E6000/E6001/E6002/E6010/E6012/E6050

Usage	Installation and removal tool of lock ring for chainring
USP	<ul style="list-style-type: none"> • Adapter style to use with TL-FC36, TL-FC33 or TL-FC32 • Precise spline profile • Hardened steel for rigidity and durability
Compatibility	DU-E6000/E6001/E6002/E6010/E6012/E6050
Remark	An impact wrench cannot be used
Code no.	YEZY00010



TL-FC39
Lock ring tool for DU-EP800/E8000/E7000/E6100/E5000

Usage	Installation and removal tool of lock ring for chainring
USP	<ul style="list-style-type: none"> • Adapter style to use with TL-FC36 or TL-FC32 • Precise spline profile • Hardened steel for rigidity and durability
Compatibility	DU-EP800/E8000/E7000/E6100/E5000
Remark	An impact wrench cannot be used
Code no.	YEZY00016



SHIMANO STEPS

NEW TL-FC430
Lock ring tool for DU-EP801/EP600

Usage	Installation and removal tool of lock ring for chainring
USP	<ul style="list-style-type: none"> • Adapter style to use with TL-FC36, TL-FC33 or TL-FC32 • Precise spline profile • Hardened steel for rigidity and durability
Compatibility	DU-EP801/EP600
Remark	An impact wrench cannot be used
Code no.	Y70898030



TL-BME01
Measurement tool for the installation of battery mounts

Usage	Measurement tool for the installation of BM-E6010
Compatibility	BM-E6010
Code no.	Y70W00002



TL-DUE60
Chain tension measurement tool

Usage	Chain tension measurement tool for SHIMANO STEPS internal geared hub models
USP	Can be measured and adjusted the chain tension from either the top or bottom of the chain
Code no.	YEZY00002



TL-BME02
Measurement tool for the installation of battery mounts

Usage	Measurement tool for installation of BM-E8010/BM-E8016
Compatibility	BM-E8010/BM-E8016
Code no.	YEZY00014



TL-BME03
Measurement tool for the installation of battery mounts

Usage	Measurement tool for installation of BM-E8020
Compatibility	BM-E8020
Code no.	YEZY00015



TL-BME04
Measurement tool for the installation of battery mounts

Usage	Measurement tool for installation of BM-E8030/BM-E8031 Position adjustment tool for installation of key cylinder
Compatibility	BM-E8030/BM-E8031
Code no.	Y13000050



TL-BME05
Measurement tool for the installation of battery mounts

Usage	Measurement tool for installation of BM-E8030/BM-E8031 Position adjustment tool for 630 Wh battery case and installation of key cylinder
Compatibility	BM-E8030/BM-E8031
Code no.	Y13000070



Di2

TL-EW01 Plug tool for connection and disconnection of Electric wire

Usage	Plug tool for connection and disconnection of EW-7970
Compatibility	EW-7970
Code no.	Y7CY02000



TL-EW02 Plug tool for connection and disconnection of Electric wire

Usage	Plug tool for connection and disconnection of EW-SD50
Compatibility	EW-SD50
Code no.	Y6VE16000



TL-EW300 Plug tool for connection and disconnection of Electric wire

Usage	Plug tool for connection and disconnection of EW-SD300
Compatibility	EW-SD300
Code no.	Y7HE40000



SM-PCE02 PC Linkage Device

Usage	For SHIMANO STEPS/Di2 Settings		
Compatibility	EW-SD50	Code no.	ISMPCPE02B
	EW-SD300		ISMPCPE02B2
	EW-SD50/EW-SD300	ISMPCPE02B3	



Others

TL-MH10 Multi-handle tool



Usage	Large size handle to use with 1/2" square drive tool such as TL-FC34, TL-FC33, TL-LR10/20, TL-UN66, TL-FC37
USP	<ul style="list-style-type: none"> Ergonomic handle 376 mm long lever makes it easier to loosen tightly fixed parts 3 position rotatable head (-90°, 0°, 90°) with offset lever for easier use <ul style="list-style-type: none"> - At -90° position: aligns the interface with the grip on the same plane to reduce the chance of slipping off - At 0° position: quicker rotation when high power is not required - At 90° position: avoids interference with the frame Chrome plated chromoly steel for durability and rigidity
Remark	<ul style="list-style-type: none"> This tool is designed to loosen tightly fixed parts Be careful not to overtighten parts during installation
Code no.	Y13098290



With TL-FC33

Convertible tools



Service Tips

Tools required for assembly

In recent years, there have been increasing opportunities to assemble Shimano products into frames/parts of various shapes. For this reason, the number of dedicated tools required for assembly has increased. Please check the required tools again at each retailer.



Di2

E-TUBE kit	For connecting the bicycle (system or components) to a PC via a PC linkage device	IETUBEKIT4EB (English) IETUBEKIT4GB (German)
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1 Shift/Brake lever

TL-BR001 ①	Syringe unit for bleeding	Y13000080
TL-BR002 ②	Funnel unit for ST (M7*0.75)	Y13000090
TL-BR003 ③	Funnel unit for BL (M5*0.8)	Y13000100
①②③ KIT	TL-BR001, TL-BR002, TL-BR003, 4 types of bleeding spacers	Y13098630
TL-BH62	Disc brake hose cut & set tool	Y13098570

2 Brake caliper

	Bolt length selector for rear	Y8N221000
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3 Disc brake rotor

TL-FC36	Lock ring tool for externally spline type	Y13098000
TL-LR15	Lock ring tool for internally spline type	Y12009230
TL-LR11	Lock ring tool for internally/externally spline type for SM-RT10/30	Y8PW04100

4 Bottom bracket

TL-FC36	HOLLOWTECH II/2-PIECE CRANKSET bottom bracket cup tool	Y13098000
TL-FC24	Bottom bracket cup tool (adaptor) for BB-R9100	Y13009240
TL-FC25	Bottom bracket cup tool (adaptor) for SM-BBR60	Y13009260
TL-BB12	Press-fit bottom bracket installation tool	Y13098255
TL-BB13	Press-fit bottom bracket removal tool	Y13098262
TL-UN74-S	Cartridge bottom bracket tool	Y13009073

5 Crankset

TL-FC18	HOLLOWTECH II/2-PIECE CRANKSET crank arm tool	Y13098280
TL-FC11	Cotterless/OCTALINK crank arm extractor	Y13098210
TL-FC23	Chaining bolt T30 wrench with 5 mm hex	Y13098230
TL-FC40	Power meter crank arm tool	YEZY00017

6 Cassette sprocket

TL-LR15	Lock ring tool	Y12009230
TL-SR24	9-12-speed compatible sprocket remover	Y13098730

7 Chain

TL-CN35	9-12-speed compatible professional chain tool	Y13098710
	Spare pins (10 pins) for TL-CN35, TL-CN34	Y13098551
TL-CN10	QUICK-LINK connecting & removing pliers	Y13022000
TL-CN42	Chain wear indicator	Y12160000

Others

TL-RD11	Rear dropout alignment tool	Y13098270
TL-CT12	Cable cutter	Y09898010

OTHERS



CLEATS

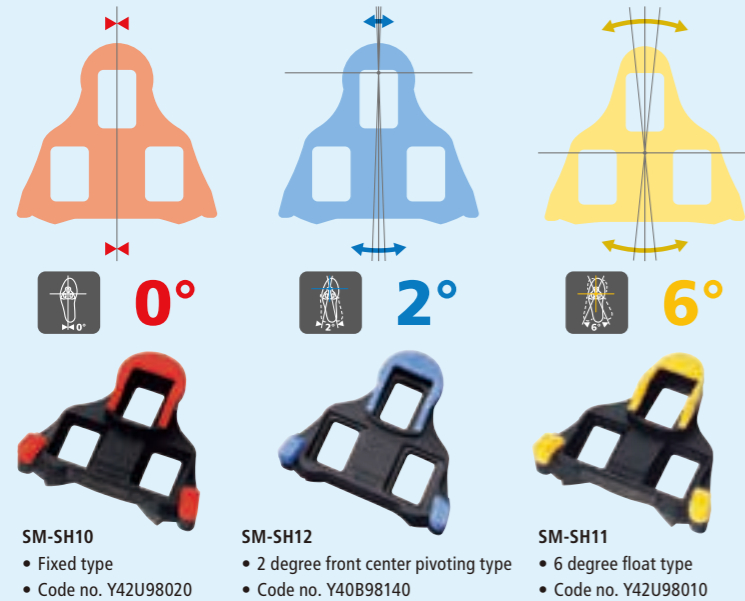


Interface between shoe and pedal

Cleats are the interface between the shoe and the pedal. SHIMANO pedals and cleats have been developed to work as a system and are precisely matched to ensure optimal power transfer and safety. Cleats can wear out through intensive use and especially through walking. They should therefore be replaced to maintain comfort and reliability levels.



The rigidity rate is designed for a perfect match with SHIMANO SPD-SL pedals. This cleat has the appropriate shape for SPD-SL pedals. The walkable design has blue/yellow/red ground contact points to prevent wearing out of the cleat part which engages with the pedal.



- SM-SH10**
 - Fixed type
 - Code no. Y42U98020
- SM-SH12**
 - 2 degree front center pivoting type
 - Code no. Y40B98140
- SM-SH11**
 - 6 degree float type
 - Code no. Y42U98010



- SM-SH45 SPD-SL Cleat Covers**
- Protect cleats from wearing out while walking.
 - Better walkability
 - Easy to put on and take off
 - For SPD-SL Cleats (SM-SH10/SM-SH11/SM-SH12)
 - Code no. ESM5H45



- SM-SH20 Cleat Spacers**
- 1 mm spacer 1 pc.
 - 2 mm spacer 2 pcs.
 - M5 x 10 mm bolt 3 pcs.
 - M5 x 13.5 mm bolt 3 pcs.
 - Code no. Y40B98150



Cleat Spacers
Perfect symmetry is rare in nature, and cyclists are no exception. In fact, it's not uncommon for one leg to be longer than the other. To compensate for such discrepancies, SHIMANO has developed stackable cleat spacers that provide between 1 mm and 5 mm of height-adjustment range.

- SPD-SL Cleat Bolts**
- Lightweight type (M5 X 8 mm) 6 pcs.
 - Code no. YL8898050
 - Normal (M5 X 8 mm) 6 pcs.
 - Code no. Y42U98080
 - Medium (M5 X 10 mm) 6 pcs.
 - Code no. Y42U98070
 - Long (M5 X 13.5 mm) 6 pcs.
 - Code no. Y42U98060



RELEASING THE CLEATS FROM THE PEDALS

(The release mode varies according to the type of cleats you are using.)



SINGLE DIRECTION RELEASE

SM-SH51
Release the cleats from the pedals by twisting your heels outward.



SM-SH51 SPD cleats

- For single direction release and "easy step-in" feature
- Code no. Y42498220
- Code no. Y42498201 (without cleat nut)



MULTI-DIRECTIONAL RELEASE

SM-SH56
Release the cleats from the pedals by twisting your heels in any direction.



SM-SH56 SPD cleats

- Multi-directional release except for PD-M858
- Code no. Y41598092
- Code no. Y41598100 (without cleat nut)



Cleat Nut

- For SM-SH51/56
- Code no. YL0E04000 (1 pc.)

SM-SH41 SPD Cleat Adapter

- SPD cleat adapter for 3-hole SPD-SL outsoles
- For all SPD-SL shoes with 3 holes
- For SPD cleats (SM-SH51/SM-SH56)
- Code no. ESM5H41









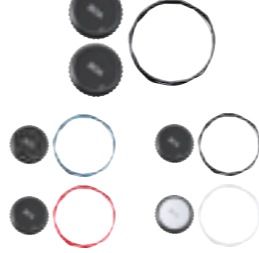




SPD Cleat Spacer

- Fine tune the pedal and shoe contact
- Thickness: 1.0 mm
- For SPD Cleats (SM-SH51/SM-SH56)
- Code no. YL8098030





Cold forged and specially heat treated to increase durability and rigidity for heavy use even under severe conditions. SPD cleats are engineered specifically to match SHIMANO pedals and avoid damage – the big advantage of having single-source parts.



Shoe cleats					
1 unit (set)					
Category	Category	Model no.	Mode (icon)		Code no.
	SPD-SL	SM-SH10	Fixed	Fixed type	Y42U98020 ISMSH10
	SPD-SL	SM-SH11	Float	6 degree float type	Y42U98010 ISMSH11
	SPD-SL	SM-SH12	Front center pivoting	2 degree front center pivoting type	Y40B98140 ISMSH12
	SPD	SM-SH51 (with cleat nut)	Single release	For single direction release and "easy step-in" feature	Y42498220 ISMSH51A
	SPD	SM-SH51 (without cleat nut)	Single release	For single direction release and "easy step-in" feature	Y42498201 ISMSH51
	SPD	SM-SH56 (with cleat nut)	Multi release	Multi-directional release	Y41S98092 ISMSH56A
	SPD	SM-SH56 (without cleat nut)	Multi release	Multi-directional release	Y41S98100 ISMSH56



Pedal pin				
	Model no.	Short	Long	Pedal pin QTY per one side
	PD-GR500	YL8798010 (9 pcs) *Height adjusting spacers are included.		9
	PD-M820 (SPD)			4
	PD-MX80			9
	NEW PD-GR400	YL8X98030		9
	PD-M828	YL8A98010 (12 pcs)	YL8A98020 (12 pcs)	12
	PD-M8140			10
	PD-T8000	YL8498050 (8 pcs)	YL8498060 (8 pcs)	8
	PD-EH500		-	






SHOE REPAIR PARTS					
BOA® kit					
		Model no.	Compatibility	Color	Code no.
	BOA® KIT	BOA® L6 REPAIR KIT 1 DIAL	SH-IC500/IC300/IC501	Clear	ESMSHIC500WBOC0100L ESMSHIC500WBOC0100R
	BOA® KIT	BOA® L6 REPAIR KIT 1 DIAL	SH-RC702/RC701/XC702/XC701/ME501/MW701/MW702	Gray	ESMSHMW701MBOG01000L ESMSHMW701MBOG01000R
	BOA® KIT	BOA® L6 REPAIR KIT 1 DIAL	SH-RC300/RC300 WOMEN/XC300/XC300 WOMEN/RP400/RP400 WOMEN/ME400/ME400 WOMEN/ET700/ET700 WOMEN/EX700	Black White	ESMSHRC300MBOL0100L ESMSHRC300MBOL0100R ESMSHRC300MBOW0100L ESMSHRC300MBOW0100R
	BOA® KIT	BOA® L6 REPAIR KIT 1 DIAL	SH-RC502/RC502 WOMEN/RC500/RC500 WOMEN/XC502/XC502 WOMEN/XC501/XC501 WOMEN/MT701GTX/MT701/ME502/RX600/RX600 WOMEN/EX700GTX	Clear Black	ESMSHRC500WBOC0100L ESMSHRC500WBOC0100R ESMSHMT701MBOL0100L ESMSHMT701MBOL0100R
	BOA® KIT	BOA® L6 REPAIR KIT 1 DIAL	SH-RC901T	Blue	ESMSHRC901TBOB0100L ESMSHRC901TBOB0100R
	BOA® KIT	BOA® Li2 REPAIR KIT 2 DIALS	SH-RC902/XC902	Blue Black Red White	ESMSHRC902MBOB0100L ESMSHRC902MBOB0100R ESMSHRC902MBOL0100L ESMSHRC902MBOL0100R ESMSHRC902MBOR0100L ESMSHRC902MBOR0100R ESMSHRC902MBOW0100L ESMSHRC902MBOW0100R
	BOA® KIT	BOA® Li2 REPAIR KIT 1 DIAL	SH-RC902T	White	ESMSHRC902TBOW0100L ESMSHRC902TBOW0100R
	BOA® KIT	BOA® Li2 REPAIR KIT 1 DIAL	SH-RX801R/RX801	Black	NEW ESMSHRX800MBOL0100L NEW ESMSHRX800MBOL0100R
	BOA® KIT	BOA® IP1 REPAIR KIT 2 DIALS	SH-RC901/XC901	Blue Black White	ESMSHRC901MBOB01000L ESMSHRC901MBOB01000R ESMSHRC901MBOL01000L ESMSHRC901MBOL01000R ESMSHRC901MBOW01000L ESMSHRC901MBOW01000R
	BOA® KIT	BOA® IP1 REPAIR KIT 1 DIAL	SH-RX800/RX800 WOMEN	Black	ESMSHRX800MBOL0100L ESMSHRX800MBOL0100R



Buckle & strap set					
	Model no.	Compatibility	Size	Color	Code no.
	BUCKLE & STRAP SET	SH-RP301/RP301 WOMEN/ME702/ME701/ME301/ME301 WOMEN		Black	ESMSHRP301MBSL010000
				White	ESMSHRP301MBSW010000
	MINI POWER STRAP SET	SH-ET500	36 - 40	Black	ESMSHET500MMPL01400
			41 - 44		ESMSHET500MMPL01440
			45 - 48		ESMSHET500MMPL01480
	MINI POWER STRAP SET	SH-XM900	37		ESMSHXM900MPS37
			40		ESMSHXM900MPS40
			42		ESMSHXM900MPS42
			44		ESMSHXM900MPS44
			46		ESMSHXM900MPS46
			48		ESMSHXM900MPS48
	SPEED LACING PARTS KIT	SH-ME702/ME701/MW501/AM903/AM902/GR901/MT502/MT502 WOMEN/MT501/MT501 WOMEN			ESMSHAM903MSLL01000

Heel pads					
	Model no.	Compatibility	Size	Color	Code no.
	REPLACEABLE HEEL PADS	SH-RC901/RC901T	36 - 39.5		ESMSHRC900HPS
			40 - 43.5		ESMSHRC900HPM
			44 - 48		ESMSHRC900HPL
	REPLACEABLE HEEL PADS	SH-RC902/RC902T	36 - 39.5		ESMSHRC902MHPL01395
			40 - 43.5		ESMSHRC902MHPL01435
			44 - 48		ESMSHRC902MHPL01480

Insole					
	Model no.	Compatibility	Last	Size	Code no.
	VOLUME TOUR LAST INSOLE	SH-AM903/AM902/AM901/AM702/AM702 WOMEN/AM701/AM503/AM503 WOMEN/AM501/GR903/GR901/GR900/GR701/GR701 WOMEN/GR700/GR700 WOMEN/GR501/GR501 WOMEN/GR500/GR500 WOMEN/MX100/ME502/ME400/ME400 WOMEN/ME301/ME301 WOMEN/ME201 WOMEN/ME100/MW501/EX700/EX700GT/EX300/EX300 WOMEN/MT701GT/MT701/MT700/MT502/MT502 WOMEN/MT501/MT501 WOMEN/MT301/MT301 WOMEN/ET700/ET700 WOMEN/ET500/ET500 WOMEN/ET300/ET300 WOMEN/XM900/CT500/CT500 WOMEN/IC300 WOMEN	Volume tour last	33 - 35	ESMSHAM903MINL01350
				36 - 38	ESMSHAM903MINL01380
				38.5 - 40	ESMSHAM903MINL01400
				40.5 - 42	ESMSHAM903MINL01420
				42.5 - 44	ESMSHAM903MINL01440
				44.5 - 46	ESMSHAM903MINL01460
				46.5 - 48	ESMSHAM903MINL01480
	STANDARD CUP INSOLE	SH-RC903/RC903 WOMEN/RC902/RC902 WOMEN/RC901/RC902T/RC901T/RC702/RC702 WOMEN/RC701/RC502/RC502 WOMEN/RC500/RC500 WOMEN/RC300/RC300 WOMEN/RC100/RC100 WOMEN/TR901/TR501/TR501 WOMEN/XC902/XC901/XC702/XC701/XC502/XC502 WOMEN/XC501/XC501 WOMEN/XC300/XC300 WOMEN/XC100/XC100 WOMEN/RX801/RX801R/RX600/RX600 WOMEN/RX800/RX800 WOMEN/MW702/IC500 WOMEN/IC200/IC100/RP101/RP501 WOMEN/RP400/RP400 WOMEN/RP301/RP301 WOMEN/RP201 WOMEN/RP100/TR900/TR900 WOMEN/TR500/TR500 WOMEN/XC500/XC500 WOMEN/RT500	DYNALAST	36 - 38	ESMSHRC502MINL01380
				38.5 - 40	ESMSHRC502MINL01400
				40.5 - 42	ESMSHRC502MINL01420
				42.5 - 44	ESMSHRC502MINL01440
				44.5 - 46	ESMSHRC502MINL01460
				46.5 - 48	ESMSHRC502MINL01480
				49 - 50	ESMSHRC502MINL01500
	CF INSOLES (RC9)	SH-RC903/RC903 WOMEN/RC902/RC902 WOMEN/RC901/RC902T/RC901T/RC702/RC702 WOMEN/RC701/RC502/RC502 WOMEN/RC500/RC500 WOMEN/RC300/RC300 WOMEN/RC100/RC100 WOMEN/TR901/TR501/TR501 WOMEN/XC902/XC901/XC702/XC701/XC502/XC502 WOMEN/XC501/XC501 WOMEN/XC300/XC300 WOMEN/XC100/XC100 WOMEN/RX801/RX801R/RX600/RX600 WOMEN/RX800/RX800 WOMEN/MW702/IC500 WOMEN/IC200/IC100/RP101/RP501 WOMEN/RP400/RP400 WOMEN/RP301/RP301 WOMEN/RP201 WOMEN/RP100/TR900/TR900 WOMEN/TR500/TR500 WOMEN/XC500/XC500 WOMEN/RT500	DYNALAST	36 - 37.5	ESMSHRC9INCF375
				38 - 39.5	ESMSHRC9INCF395
				40 - 41.5	ESMSHRC9INCF415
				42 - 43.5	ESMSHRC9INCF435
				44 - 45.5	ESMSHRC9INCF455
				46 - 47.5	ESMSHRC9INCF475
				48 - 50	ESMSHRC9INCF500
	DUAL DENSITY EXTRA-CUSHION INSOLE	SH-ME702/ME701/ME501/MW701		36 - 38	ESMSHM200CPIN38
				38.5 - 40	ESMSHM200CPIN40
				40.5 - 42	ESMSHM200CPIN42
				42.5 - 44	ESMSHM200CPIN44
				44.5 - 46	ESMSHM200CPIN46
				46.5 - 48	ESMSHM200CPIN48
				49 - 50	ESMSHM200CPIN50

Spike				
	Model no.	Compatibility	Color	Code no.
	REMOVABLE TOE SPIKES (TALON SPIKES)	SH-XC902/XC901/XC702/XC701/XC502/XC502 WOMEN/XC501/XC501 WOMEN/XC500/XC500 WOMEN/MW702	Black	ESMSHXC902MSKL01000
	LOW PROFILE RESIN SPIKES	SH-XC902/XC901/XC702/XC701/XC502/XC502 WOMEN/XC501/XC501 WOMEN/XC500/XC500 WOMEN/MW702	Gray	ESMSHXC901MSKG01000
	REMOVABLE TOE SPIKES (18 mm height)	SH-XC902/XC901/XC702/XC701/XC502/XC502 WOMEN/XC501/XC501 WOMEN/XC500/XC500 WOMEN/MW702	Black	ESMSHXC900SPIKE
	REMOVABLE TOE SPIKES (7.5 mm height)	SH-XC902/XC901/XC702/XC701/XC502/XC502 WOMEN/XC501/XC501 WOMEN/XC500/XC500 WOMEN/MW702	Black	ESMSHXC90SPIKE
	REMOVABLE TOE SPIKES (10 mm height)	SH-XC902/XC901/XC702/XC701/XC502/XC502 WOMEN/XC501/XC501 WOMEN/XC500/XC500 WOMEN/MW702	Black	ESHM225SPIKE

ACCESSORIES FOR ELECTRONIC PRODUCTS



Compatibility information for electronic product are introduced at SHIMANO Product Website
 >>><https://productinfo.shimano.com>

Di2 E-TUBE wires

Model no.	Series	Length	Description	Code no.
EW-SD300-I	SHIMANO	150 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL015
		200 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL020
		250 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL025
		300 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL030
		350 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL035
		400 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL040
		500 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL050
		550 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL055
		600 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL060
		650 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL065
		700 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL070
		750 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL075
		800 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL080
		850 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL085
		900 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL090
		950 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL095
1,000 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL100		
1,200 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL120		
1,400 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL140		
1,600 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL160		
EW-SD300	SHIMANO	150 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L015
		200 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L020
		250 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L025
		300 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L030
		350 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L035
		400 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L040
		500 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L050
		550 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L055
		600 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L060
		650 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L065
		700 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L070
		750 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L075
		800 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L080
		850 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L085
		900 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L090
		950 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L095
1,000 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L100		
1,200 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L120		
1,400 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L140		
1,600 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L160		
EW-SD50	SHIMANO	150 mm		IEWSD50L15
		200 mm		IEWSD50L20
		250 mm		IEWSD50L25
		300 mm		IEWSD50L30
		350 mm		IEWSD50L35
		400 mm		IEWSD50L40
		500 mm		IEWSD50L50
		550 mm		IEWSD50L55
		600 mm		IEWSD50L60
		650 mm		IEWSD50L65
		700 mm		IEWSD50L70
		750 mm		IEWSD50L75
		800 mm		IEWSD50L80
		850 mm		IEWSD50L85
		900 mm		IEWSD50L90
		950 mm		IEWSD50L95
1,000 mm		IEWSD50L100		
1,200 mm		IEWSD50L120		
1,400 mm		IEWSD50L140		
1,600 mm		IEWSD50L160		

Battery/Battery charger

Model no.	Series	Description	Code no.
SM-BTR1	SHIMANO	External battery	ISMBTR13 (Without recycle mark) ISMBTR1A (With recycle mark) ISMBTR1AT1 (Taiwan spec)
BT-DN110-A		Internal battery	IBTDN110A6 (EU spec) IBTDN110A7 (NORTH AMERICA spec) IBTDN110A8 (OTHERS spec)
BT-DN300		Internal battery including 3 pcs of SD300 port	IBTDN3001 (EU spec) IBTDN3002 (NORTH AMERICA spec) IBTDN3003 (OTHERS spec)
SM-BCR2		Battery charger for internal battery	ISMBCR2
SM-BCR1		Battery charger for external battery	ISMBCR1
SM-BCC1		Power cable for SM-BCR1	12 part numbers depending on the plug type

Charging cable

Model no.	Series	Description	Code no.
EW-EC300	SHIMANO	Charging cable	IEWEC300A

Di2 Battery mounts and wire junctions

Model no.	Series	Description	Code no.	
BM-DN100	SHIMANO	• Long type • Internal wire routing • Long type • External wire routing • Short type • External wire routing • 10 mm bolt • Short type • External wire routing • 16 mm bolt	IBMDN100IB IBMDN100LB IBMDN100S1 IBMDN100S2	
EW-AD305		• Conversion adapter for EW-SD50 and EW-SD300	IEWAD305	
EW-JC302		• 2-port junction for EW-SD300	IEWJC302	
EW-JC304		• 4-port junction for EW-SD300	IEWJC304	
SM-EW90		• Junction A (Front) • 3-port • Junction A (Front) • 5-port	ISMEW90A ISMEW90B	
EW-RS910		• Junction A (Built-in type) • 3-port	IEWRS910	
EW-JC130		• Y-split routing • Cable length: 550 mm, 50 mm, 550 mm • Y-split routing • Cable length: 350 mm, 50 mm, 450 mm • Y-split routing • Cable length: 350 mm, 50 mm, 250 mm	IEWJC130MM IEWJC130SM IEWJC130SS	
EW-JC200		• 2-port junction	IEWJC200	
SM-JC41		• Junction B • Internal wire routing	ISMJC41	
SM-BTC1		Battery case	ISMBTC1	
SC-M9051		XTR M9050 DEORE XT M8050 DURA-ACE R9150	System information display/Electric Power Connector	ISCM9051C
SC-MT800		SHIMANO	System information display/Electric Power Connector	ISCMT800C ISCMT800R51 (For Serbia)

Di2 misc.				
	Model no.	Series	Description	Code no.
	EW-CL300-S	SHIMANO	Cord clip for EW-SD300 and SP outer cable/brake hose: ø 4	Y7HS10000
	EW-CL300-M		Cord clip for EW-SD300 and SP outer cable/brake hose: ø 5	Y7HS20000
	EW-CB300-S		Cord band for EW-SD300 and ø 22.2 handlebar	Y7HX01000
	EW-CB300-M		Cord band for EW-SD300 and ø 31.8 handlebar	Y7HX02000
	EW-CB300-L		Cord band for EW-SD300 and ø 35 handlebar	Y7HX03000
	EW-CC300		Cord fixing tape for EW-SD300: Black	IEWCC300LA
			Cord fixing tape for EW-SD300: White	IEWCC300WA
	SM-EWC2		Wire Covers: Black	ISMEWC2L
			Wire Covers: White	ISMEWC2W
	EW-GM300-S		Frame grommet for EW-SD300 (6 mm CIRCLE)	Y7HN01000
	EW-GM300-M		Frame grommet for EW-SD300 (7 x 8 mm)	Y7HN02000
	SM-GM01		Frame Grommets: (6 mm CIRCLE) X 4	ISMGM01
	SM-GM02		Frame Grommets: (7 X 8 mm) X 4	ISMGM02
	Cable tie	Wire holder: Cable tie for internal routing	IEWSD50ISM1	
	SM-PCE02	PC Linkage Device	ISMPC02B (SD50 type) ISMPC02B2 (SD300 type) ISMPC02B3 (SD50/SD300 type)	
	NEW Setting cable	SM-PCE02 PC setting cable (SD300 type) 2,050 mm	Y79M9802T	
	TL-EW300	Plug tool: Connection and disconnection of EW-SD300	Y7HE40000	
	TL-EW02	Plug tool: Connection and disconnection of E-TUBE electric wires	Y6VE16000	
	TL-EW01	Plug Tool: Only for 7970 wires	Y7CY02000	

E-TUBE kit				
	Model no.	Usage	Description	Code no.
	SM-PCE02 (SD50 type)	For connecting the bicycle (system or components) to a PC via a PC linkage device	PC link device for SD50	IETUBEKIT3EB (English) IETUBEKIT3GB (German)
	EW-SD50		Electric wire for SD50	
	SM-JC41		Junction for SD50	
	TL-EW02		Plug tool for SD50	
NEW	SM-PCE02 (SD300 type)	For connecting the bicycle (system or components) to a PC via a PC linkage device	PC link device for SD300	IETUBEKIT5EB (English) IETUBEKIT5GB (German)
	Setting cable (SD300 type)		Electric wire for SD300	
	EW-JC304		Junction for SD300	
	TL-EW300		Plug tool for SD300	
NEW	SM-PCE02 (SD300/50 type)	For connecting the bicycle (system or components) to a PC via a PC linkage device	PC link device for SD300/50	IETUBEKIT4EB (English) IETUBEKIT4GB (German)
	Setting cable (SD300 type)		Electric wire for SD300	
	EW-SD50		Electric wire for SD50	
	EW-JC304		Junction for SD300	
	SM-JC41		Junction for SD50	
	TL-EW300		Plug tool for SD300	
	TL-EW02		Plug tool for SD50	

D-FLY unit				
	Model no.	Series	Usage	Code no.
	EW-WU111	SHIMANO	Wireless unit for Di2 system	IEWWU111B
	EW-WU101			IEWWU101C

BRACKET COVERS



Bracket covers

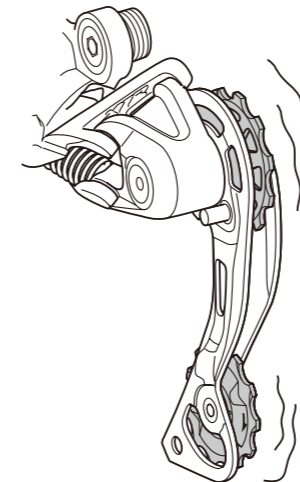
Image	Model no.	Series	Color	Unit	Code no.	
	ST-R9270	DURA-ACE	Black	pair	Y0MX98010	
	ST-R9250		Black	pair	Y0N798010	
	ST-R9170		Black	pair	Y0CA98010	
	ST-R9150		Black	pair	Y0C898010	
	ST-R9120		Black	pair	Y0C698010	
	ST-R9100		Black	pair	Y0BF98010	
	ST-9070		Black	pair	Y6X098070	
	ST-9001		Black	pair	Y00G98060	
	ST-R8170		ULTEGRA	Black	pair	Y0NS98010
	ST-R8070			Black	pair	Y0E698010
	ST-R8050	Black		pair	Y0E298010	
	ST-R8020/ST-R8025	Black		pair	Y0E098010	
	ST-R8000	Black		pair	Y0DK98010	
	ST-6870	Black		pair	Y00S98060	
	ST-6800	Black		pair	Y00E98080	
	ST-6770	Black		pair	Y6VE98060	
	ST-6700	Black		pair	Y65C98180	
	ST-R7170	SHIMANO 105		Black	pair	Y0RM98010
	ST-R7000		Black	pair	Y0DK98010	
	ST-R7020/ST-R7025 ST-R4720/ST-R4725 ST-RX600/ST-RX400 BL-RX600-L	SHIMANO 105 TIAGRA GRX	Black	pair	Y0F398010	
	ST-RX810	GRX	Black	pair	Y0JK98010	
	ST-RX815		Black	pair	Y0JM98010	
	ST-5800	SHIMANO 105	Black	pair	Y00E98080	
	ST-5700		Black	pair	Y6TH98120	
	ST-5700		White	pair	Y6TH98130	
	ST-4700	TIAGRA	Black	pair	Y00E98080	
	ST-4703		Black	pair	Y00E98080	
	ST-4600		Black	pair	Y6UM98090	
	ST-R3000	SORA	Black	pair	Y05T98010	
	ST-R3030		Black	pair	Y05T98010	
	ST-R2000	CLARIS	Black	pair	Y05T98010	
	ST-R2030		Black	pair	Y05T98010	
	ST-R785	SHIMANO	Black	pair	Y07T98080	
	ST-RS685		Black	pair	Y07X98080	
	ST-RS505		Black	pair	Y03N98020	
	ST-RS405		Black	pair	Y03N98020	
	ST-R460		Black	pair	Y6UM98090	
	ST-R460		Black	pair	Y6UM98090	

Service Tips

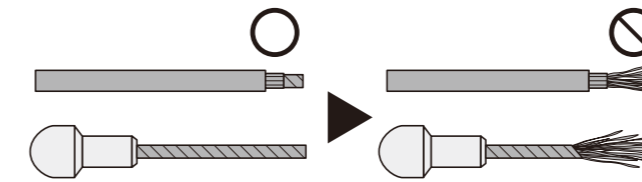
Replacement timing depends on the conditions you ride in, type of terrains, and riding style. Always better to replace the parts before it gets worn out.

Rear Derailleur Pulley

If you hear abnormal noise as a result of looseness in a pulley, you should replace the pulley.



Cables (brake and shift)



When?	<ul style="list-style-type: none"> Check with a professional mechanic at least once a year (depends on your riding conditions) When increased friction, damaged
Why?	<ul style="list-style-type: none"> Possibility of degradation Dust occurred by friction Gets rusty
What happened if not replacing?	<ul style="list-style-type: none"> Cable disconnection Troubles with shifting, braking
Notes	<ul style="list-style-type: none"> Preventive maintenance is necessary

Cassette Sprocket

If the chain keeps coming off the chainrings during use, replace the chainrings and the chain.

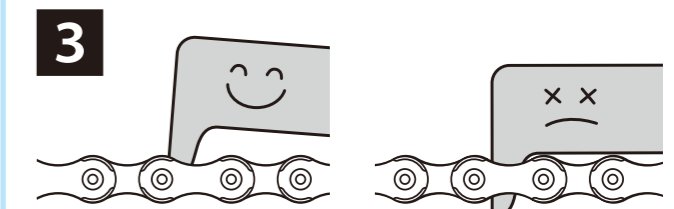
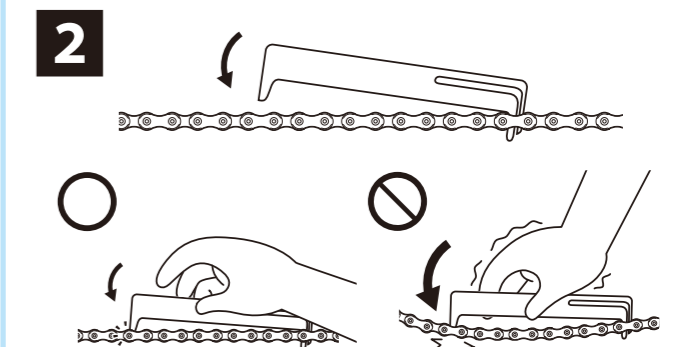
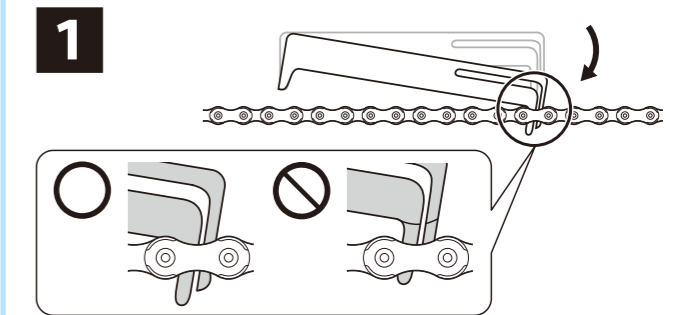
Products are not guaranteed against natural wear and deterioration from normal use and aging.



When?	<ul style="list-style-type: none"> Chain skipping, poor rear shifting Once in every 3 to 5 chain replacements
Why?	<ul style="list-style-type: none"> Possibility of degradation Dust occurred by friction Gets rusty
What happened if not replacing?	<ul style="list-style-type: none"> Shifting troubles occurs and wear of cassette sprockets and chainrings is accelerated
Notes	<ul style="list-style-type: none"> A key to cassette sprockets lifespan is keeping the chain clean and lubed

Chain

You should periodically wash the chainrings in a neutral detergent. In addition, cleaning the chain with neutral detergent and lubricating it can be an effective way of extending the useful life of the chainrings and the chain.



SHIMANO Chain Wear Indicator

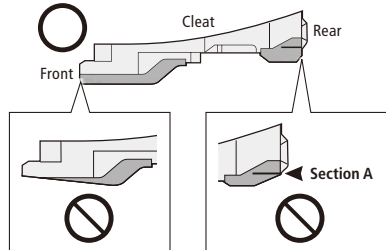
SHIMANO chain wear indicator allows you to check the chain wear accurately, easy and quickly in its unique way. The checker measures chain length without clearance gap between roller and roller link plate by guiding the rollers in the same direction.

When?	<ul style="list-style-type: none"> TL-CN42 indicates the chain wear
Why?	<ul style="list-style-type: none"> Chain is worn out
What happened if not replacing?	<ul style="list-style-type: none"> Trouble shifting, accelerate wear on cassette sprockets
Notes	<ul style="list-style-type: none"> Regular cleaning and lubrication make the chain life longer

Service Tips

SPD-SL Cleat

Cleats wear out over time and should be replaced periodically. Cleats should be replaced when it becomes difficult to release, or it starts to release with much less effort than when it was in new condition.



Note

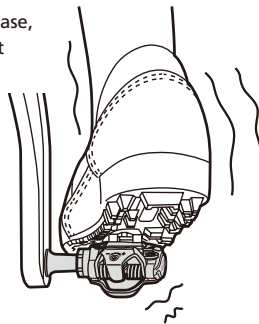
If the yellow (SM-SH11) or red (SM-SH10) or blue (SM-SH12) portions of the cleats become worn, replace the cleats with new ones.

Front: Replace the cleats when the black layer underneath the cleats are visible.

Rear: Replace when section A in the illustration becomes worn.

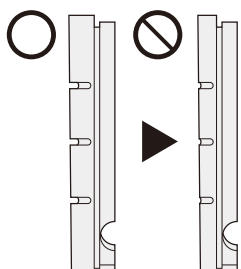
SPD Cleat

Cleats wear out over time and should be replaced periodically. Cleats should be replaced when it becomes difficult to release, or it starts to release with much less effort than when it was in new condition.



Brake Shoe

The optimum efficiency of the Multi-Condition Brake System can be realized by using the brakes and brake levers in the recommended set. If the brake shoes have worn down until the grooves are no longer visible, they should be replaced.

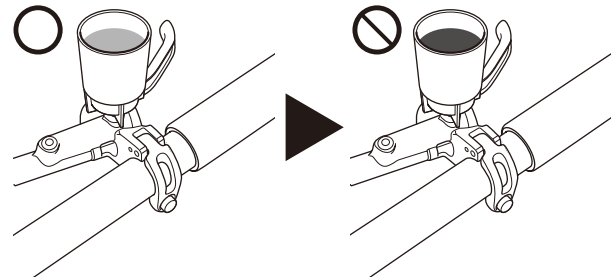


There are two different types of shoe and shoe holder to be used in the left and right positions respectively. Slide the new shoes into the grooves on the shoe holders while taking note of the correct directions and bolt hole positions.

When?	<ul style="list-style-type: none"> • Before the grooves disappear • Check with a professional mechanic at least once a year (depends on your riding conditions)
Why?	<ul style="list-style-type: none"> • Sign of replacement • Possibility of degradation
What happened if not replacing?	<ul style="list-style-type: none"> • Not able to stop or control speed • Accelerate rim wear, cracks in brake shoes

Mineral Oil

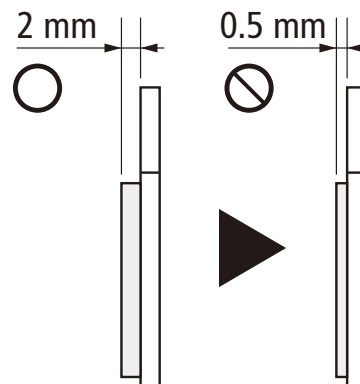
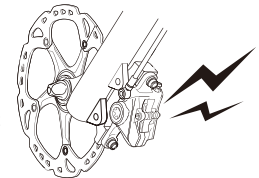
It is recommended that you replace the oil inside the reservoir tank if it becomes severely discolored. Attach a tube with a bag to the bleed nipple, and then open the bleed nipple and drain out the oil. You can operate the brake lever at this time to help the oil to drain out. After draining the fluid, pour in fresh brake fluid while referring to Technical Service Instructions "Adding the mineral oil and bleeding air". Use only genuine SHIMANO mineral oil. Dispose of the waste oil according to proper country and/or state disposal regulations.



Disc Brake Pad & Rotor

If noise occurs during brake operation, the brake pads may have been worn down to the usable limit. Check that the brake system temperature has been cooled down sufficiently, check the thickness of the brake pad. If the thickness is 0.5 mm or below, the brake pad needs to be replaced with a new one. Consult a dealer or an agency. If the disc brake rotor is cracked or deformed, immediately stop using the brakes and consult a dealer or an agency.

If the disc brake rotor becomes worn down to a thickness of 1.5 mm or less, or if the aluminum surface appears, immediately stop using the brakes and consult a dealer or an agency. The disc brake rotor may break, and you may fall off the bicycle.



If oil adheres to the brake pads after oil is added, or if the brake pads are worn down to a thickness of 0.5 mm, or if the brake pad presser springs are interfering with the rotor, replace the brake pads.

When?	<ul style="list-style-type: none"> • Pad material is less than 0.5 mm thick
Why?	<ul style="list-style-type: none"> • Sign of replacement
What happened if not replacing?	<ul style="list-style-type: none"> • Damage to a rotor (more expensive)