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GENUINE PARTS CATALOGUE 2026

SHIMANO

bike.shimano.com

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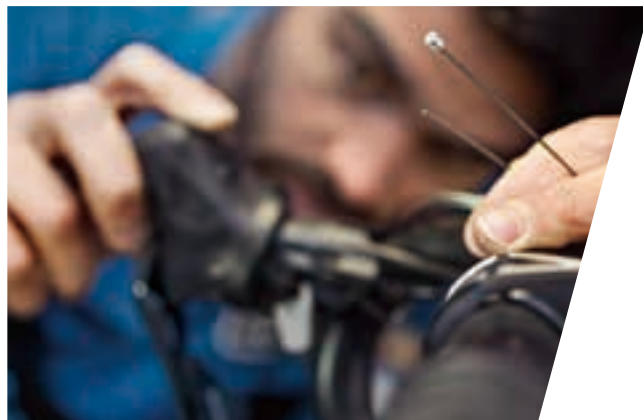
SHIMANO

There is really no substitution for SHIMANO Genuine Parts

All SHIMANO components are developed based on the SHIMANO system philosophy; conceived, designed and produced to work together in perfect harmony.

Components should be as user-friendly as possible to meet every aspect of a cyclist's expectations. This is what we call "human engineering." You are thus assured of maximum performance and maximum comfort. In order to obtain optimal performance, a complete SHIMANO component group (system) should always be fitted since all the individual components are perfectly matched. To make sure the system continues to perform to its original standard, only SHIMANO Genuine Parts should be used when replacing those that are worn out.

When combined with regular servicing, done either by yourself or your favorite dealer, we guarantee the best riding experience.



Guaranteed quality

Each and every component that goes onto your bike is critical to your safety. We never compromise. Only those parts that pass our strictest tests are worthy of the SHIMANO logo. The sole sure-fire way to protect yourself and your investment is to always use SHIMANO Genuine Parts.

Optimal performance

We want everyone who made the choice to ride with SHIMANO components to continue enjoying their bikes the way they were intended. SHIMANO groupset families are clearly delineated by performance, so you can spend more time riding and less time second-guessing.



Full compatibility

Only SHIMANO Genuine Parts match the exact specifications required to meet the high demands of a system made with precision engineering. Perfectly fitting parts facilitate easy assembly and ensure excellent performance.

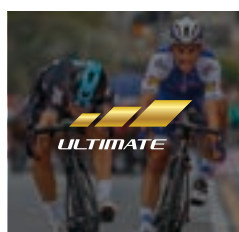
MEMO

[illegible]

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.

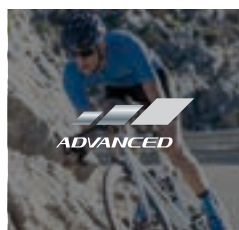
GRADES OF THE GENUINE PARTS



ULTIMATE

Leading-edge technology for the highest level of riding.

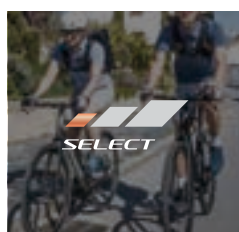
Advantage functions for a faster, smoother and practically stress-free ride. Ultimate performance is attained by taking advantage of the leading-edge technology.



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.

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DISC BRAKE PADS



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



Radiator fin
Provides long pad life and less
fade by cooling technology



Improved resin material
• Consistently smooth and quiet braking operation
• Predictable braking power

Disc brake pads

	E-Bike	Model no.	Pad type	Piston	Material			Series	Compatibility model	Code no. 1 pair	Code no. 25 pair	Code no. 50 pair
		G04S-MX	Narrow	2-Piston	Metal	—	*****	DEORE XT	BR-M8200	IBPG04SMXA	—	—
		G05A-RX			*Resin	—	****			EBPG05ARXA	EBPG05ARXBS	EBPG05ARXCS
		K04Ti-MX	Narrow	2-Piston	Metal	—	*****	XTR	BR-M9200	IBPK04TIMXA	—	—
		K05Ti-RX			*Resin	—	****			IBPK05TIRXA	—	—
		NEW P04C-MF	Narrow	4-Piston	Metal	X	*****	XTR, DEORE XT	BR-M9220, BR-M8220	IBPP04CMFA	—	—
		NEW P03A-RF			Resin	X	****			IBPP03ARFA	—	—

*New resin: 50% more durable

BRAKE LEVER

Brake lever blade unit

	Series	Model no.	Code no.
	NEW XTR	BL-M9200	Y1XJ98010
		BL-M9220	Y2RJ98040 (Right)
			Y2RJ98050 (Left)
	NEW DEORE XT	BL-M8200	Y2RH98010

DIAPHRAGM

Diaphragm

	Model no.	Diaphragm	Cap	Fixing screw	Diaphragm unit
	NEW BL-M9200	Y8WM9801T	Y1XJ9801T	Y8S207000	Y1XJ98030
	NEW BL-M9220	Y2RJ9801T	Y2RJ9802T	Y8S207000	Y2RJ98060
	NEW BL-M8200	Y2RJ9801T	Y2RJ9802T	Y8S207000	Y2RJ98060

DISC BRAKE HOSE



Brake hose rigidity

Disc brake hose

	Model no.	Series	Connection	Included parts		Note	Code no.
	SM-BH90-SBM	XTR (BR-M9220) DEORE XT (BR-M8220)	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 O-ring x3		Black 1,000 mm	ISMBH90SBMLL100A
						Black 1,700 mm	ISMBH90SBMLL170A
						Black 2,000 mm	ISMBH90SBMLL200A
	SM-BH90-SS	XTR (BR-M9200) DEORE XT (BR-M8200)	Straight - Straight	Flare nut x2 Olive x2 Connector insert for SM-BH90 x2		Black 1,000 mm	ESMBH90SSL100
						Black 1,700 mm	ESMBH90SSL170
						Black 2,000 mm	ESMBH90SSL200

* Connecting insert pin for SM-BH90

CHAINRINGS

XTR

	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	NEW FC-M9200/ FC-M9220	Single	12-speed	—	38T (SM-CRM96)	ISMCRM96AA8
				—	36T (SM-CRM96)	ISMCRM96AA6
				—	34T (SM-CRM96)	ISMCRM96AA4
				—	32T (SM-CRM96)	ISMCRM96AA2
				—	30T (SM-CRM96)	ISMCRM96AA0
				—	28T (SM-CRM96)	ISMCRM96AZ8

DEORE XT

	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	NEW FC-M8200	Single	12-speed	—	36T (SM-CRM86)	ISMCRM86A6
				—	34T (SM-CRM86)	ISMCRM86A4
				—	32T (SM-CRM86)	ISMCRM86A2
				—	30T (SM-CRM86)	ISMCRM86A0
				—	28T (SM-CRM86)	ISMCRM86Z8

OTHERS

Crank protection film

	Model no.	Code no.
	NEW FC-M9200/M9220 protection sticker (2 pcs.)	Y0X998040
	NEW FC-M8200 protection sticker (2 pcs.)	Y0TF98050

CHAINS



Chromizing Treatment Link Pin



Hollow Pin



For both e-bikes and non-e-bikes
High wear-resistance maintains
shifting performance on bikes with or
without a drive unit.

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

QUICK-LINK

	Model no.	Compatibility	Note	Unit	Code no.
	SM-CN910-12	For 12-speed chain	• Wears and functions like other links on the chain • SIL-TEC surface treatment • Single use	2 pairs 50 pairs (workshop jar)	ISMCM91012A ISMCM91012BS

CASSETTES

Cassettes MTB

1 unit (set)								
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.	
 CS-M9200	NEW CS-M9200-12	XTR	9-11-13-15-17-19-21-24-28-33-39-45T	HYPERGLIDE+	MICRO SPLINE	327 g	ICSM9200945	12-speed
			10-12-14-16-18-21-24-28-33-39-45-51T			369 g	ICSM9200051	
	NEW CS-M8200-12	DEORE XT	9-11-13-15-17-19-21-24-28-33-39-45T	HYPERGLIDE+	MICRO SPLINE	426 g	ICSM8200945	
			10-12-14-16-18-21-24-28-33-39-45-51T			463 g	ICSM8200051	

— Titanium gear

Sprockets MTB teeth (top gears)

					Teeth (4 gears from top)			
	Speed	Model no.	Series	Teeth	9T	11T	13T	15T
 CS-M9200	12-speed	NEW CS-M9200-12 CS-M8200-12	XTR, DEORE XT	9-11-13-15-17-19-21-24-28-33-39-45T	Y0T498010	Y0T49801T	Y0T49802T	Y0T49803T
				10-12-14-16-18-21-24-28-33-39-45-51T	Y0T49804T	Y0T49805T	Y0T49806T (CS-M9200) Y0T59803T (CS-M8200)	Y0T49807T (CS-M9200) Y0T59804T (CS-M8200)

REAR DERAILLEUR

Cage and pulley unit/Pulley set

1 unit (set) • A set of 1 tension pulley & guide pulley					
	Series	Model no.	Product	Part no.	
	NEW XTR	RD-M9250-GS/RD-M9250-SGS/RD-M9260-12	Cage and pulley unit	RD-M9250-GS: Y3K798080 RD-M9250-SGS/RD-M9260-12: Y3K798090	
			Pulley set	Y3K798120	
		RD-M9260-11L	Cage and pulley unit	Y3K998010	
			Pulley set	Y3K998020	
	NEW DEORE XT	RD-M8250-GS/RD-M8250-SGS/RD-M8260-12	Cage and pulley unit	RD-M8250-GS: Y3KA98010 RD-M8250-SGS/RD-M8260-12: Y3KA98020	
			Pulley set	Y3KA98030	
		RD-M8260-11L	Cage and pulley unit	Y3KC98010	
			Pulley set	Y3KC98020	

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>).

WHEEL REPAIR PARTS

Wheel repair parts

	Series	Model no.	Spoke unit (Spoke + Nipple)	Code no.			
				Spoke and nipple unit		Freewheel body unit	Freewheel body replacement kits
				Left	Right		
 Y3KG98060	NEW XTR	WH-M9200-TL-F15-B-29	EWHSPOKEY0009	Y0TW98010 (300 mm)		—	—
		WH-M9200-TL-R12-B-29	EWHSPOKEY000B	Y0TW98010 (300 mm)	Y0TX98010 (298 mm)	Y3KG98060	Y3KG98050
		WH-M9220-TL-F15-B-29	EWHSPOKEY000A	Y0TZ98010 (299 mm)		—	—
		WH-M9220-TL-R12-B-29	EWHSPOKEY000C	Y0TZ98010 (299 mm)	Y0U098010 (297 mm)	Y3KG98060	Y3KG98050
	NEW DEORE XT	WH-M8200-TL-F15-B-29	EWHSPOKEY0005	Y0U298010 (298 mm)		—	—
		WH-M8200-TL-R12-B-29	EWHSPOKEY0007	Y0U398010 (297 mm)		Y3KG98060	Y3KG98050
		WH-M8200-TL-F15-B-275	EWHSPOKEY0006	Y0U598010 (279 mm)		—	—
		WH-M8200-TL-R12-B-275	EWHSPOKEY0008	Y0U698010 (278 mm)		Y3KG98060	Y3KG98050

**All SKUs include spoke x 1 pc and nipple x 1 pc.

TOOLS

Cassettes

NEW TL-LR021

Lock ring tool for 9T

Usage	For installation and removal of 9T top cassettes
USP	Hardened steel for rigidity and durability
Remark	Cannot be used for multiple freewheels due to the difference in dimensions
Code no.	Y0T498030



Crankset

TL-FC41

Front chainring direct mount tool

Code no.	Y13098720
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TL-FC36

HOLLOWTECH II bottom bracket cup tool

Code no.	Y13098000
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Hub

NEW TL-HB017

Hub bearing remover

Usage	For installation and removal of hub bearings
USP	Hardened steel for rigidity and durability
Code no.	Y2LF9802T



LUBRICANTS

Others

NEW SHIMANO low viscosity oil

Application	Refer to compatibility (p. 8)
Code no.	ISMLVOIL01 (100 ml)
	ISMLVOIL01M (100 ml) for EU
	ISMLVOIL05 (500 ml)
	ISMLVOIL05M (500 ml) for EU
	KSMLVOIL10 (1,000 ml)
	KSMLVOIL10M (1,000 ml) for EU



ISMLVOIL01

KSMLVOIL10

SHIMANO brake oil compatibility

SHIMANO brake oil compatibility

Do not use oils other than those specified by SHIMANO. Doing so may prevent the brakes from operating and result in serious injury due to a fall or collision.

NOTE

The following products can be used for both SHIMANO low viscosity oil and SHIMANO genuine mineral oil.

- Brake hose
- Connector insert
- Flare nut
- Olive
- SHIMANO bleeding tools (TL-BR001/TL-BR003)

SHIMANO low viscosity oil dedicated models

Brake lever	Brake caliper
BL-M9200	BR-M9200
	BR-MT805
BL-M9220	BR-M9220
	BR-M9200
BL-M8200	BR-MT805
	BR-M8200
	BR-M8220
	BR-MT805

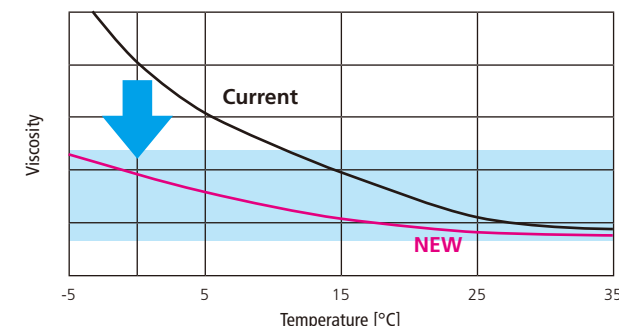
NEW

SHIMANO low viscosity oil

SHIMANO genuine mineral oil



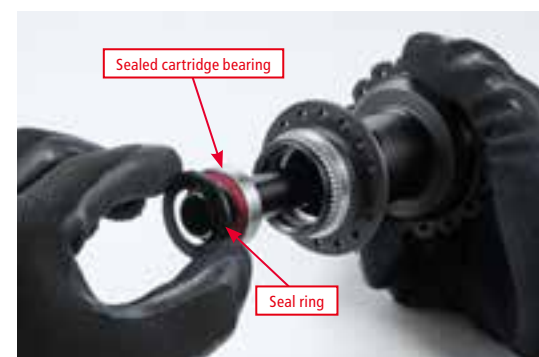
Not compatible!



Oil	Review of lever feeling change from SHIMANO test riders	
	Amount of change	Frequency of change
SHIMANO low viscosity oil	★★★	★★★
Current	★	★★

How to use new TL-HB017 & TL-LR021

TL-HB017 to replace the bearings



TL-LR021 for 9-45T cassette

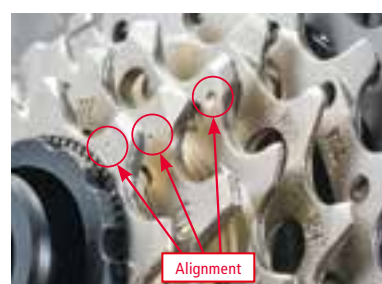
1. Place the smallest sprocket.

Place the sprocket so that the wide section on the inner side of the smallest sprocket is aligned with the wide section of the second sprocket.



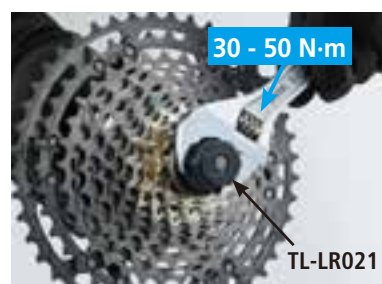
2. Install the cassette.

If the sprocket alignment marks are properly placed, they will be as shown in the figure.



3. Tighten the lock ring.

(The smallest sprocket and the lock ring are combined into a single part.)



How to change pulley set

1. Remove the plate stopper pin and turn the plate to loosen the P-tension spring.



2. Remove the plate axle cap and the plate axle.



3. Detach the plate by removing the P-tension spring and plate bumper.



4. Replace the plate bumper and apply premium grease to the plate axle screw, center of plate bumper, and P-tension spring. Premium grease (Y04110000/Y0411000A for EU)



5. Fit the tip of the P-tension spring in the hole of the plate and insert the plate into the derailleur body.



6. Install the plate axle and twist the plate, then install the plate stopper pin.



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

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 applies to the brake pad for the 2-piston brake caliper.

Metal pad

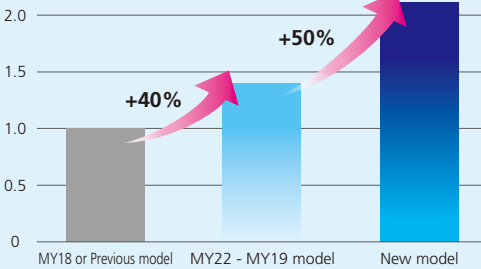
- Rigid compound
- Longer service life
- High power in severe conditions
- Designed for muddy and sandy conditions



How to read model no.

①	②	③	④	⑤
L05A-RF				
① Pad shape	② Lining generation	③ Back plate material	④ Lining material	⑤ With or without radiator fin
A= Alloy S= Stainless Ti= Titanium	C= Composite (Alloy & Stainless)	R= Resin M= Metal	X= Without fin F= With fin	

Pad life comparison

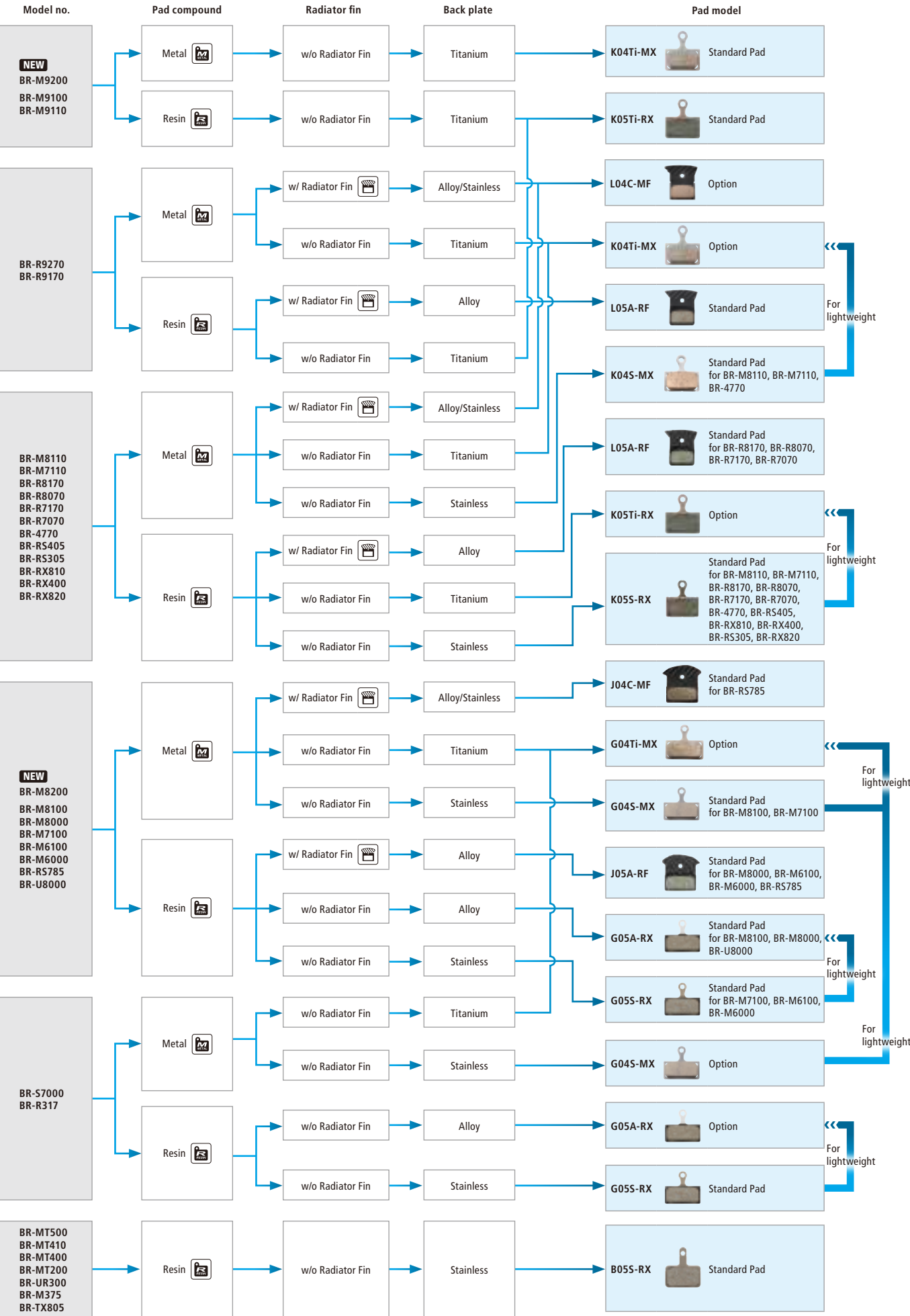


Resin disc brake pad

MY18 or Previous model	MY22 - MY19 model	New 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	-

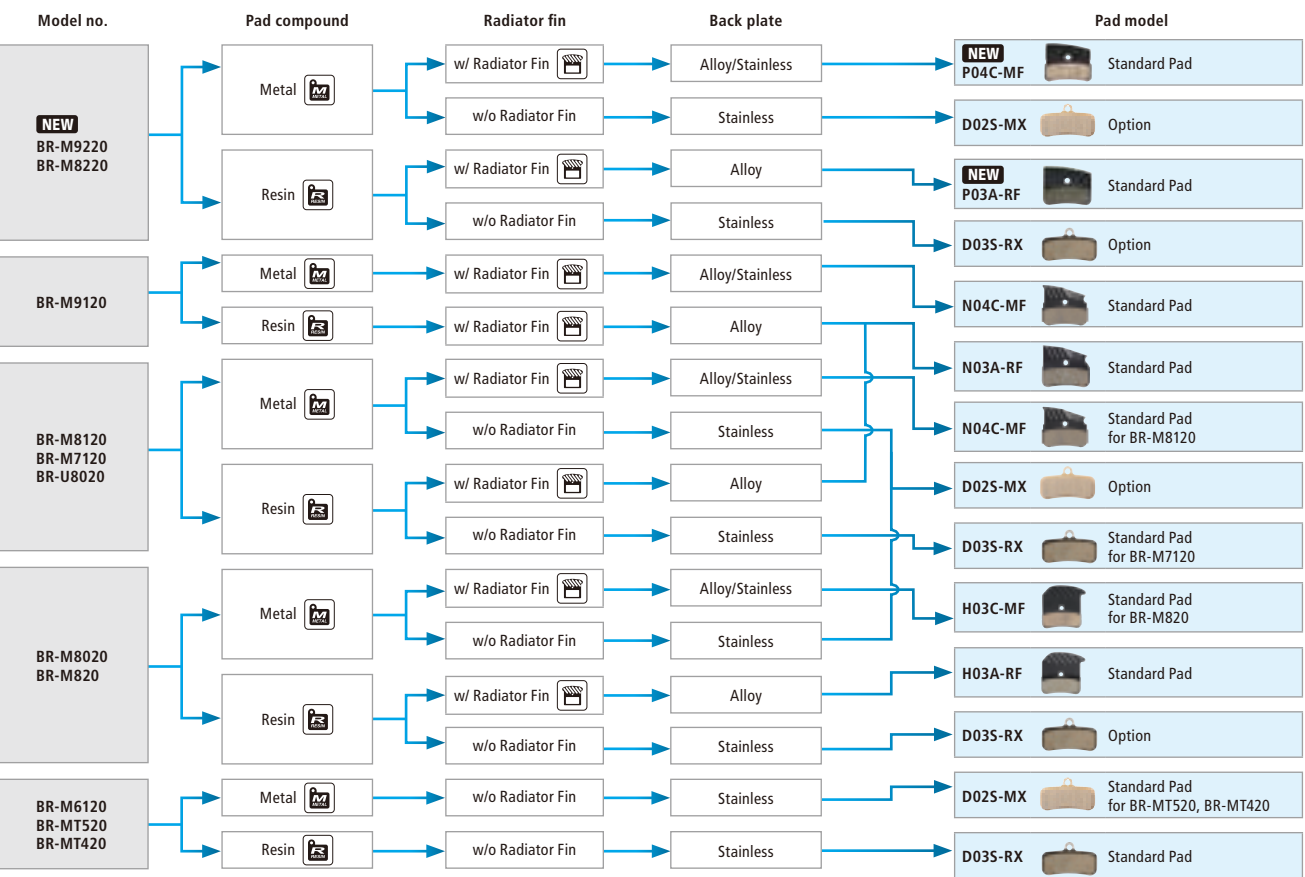
Disc brake pad selection chart

2-piston

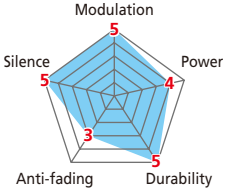
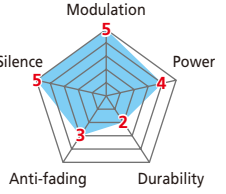
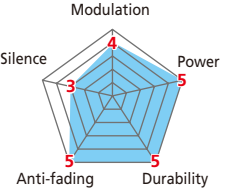
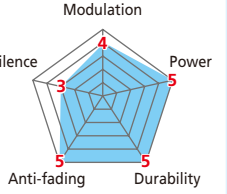
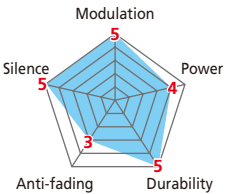
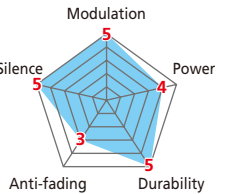
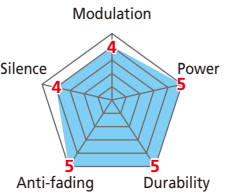
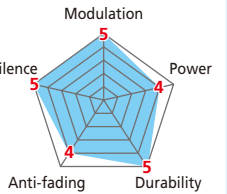
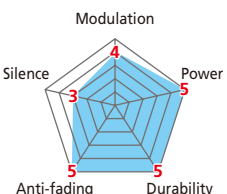
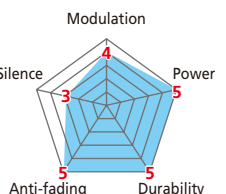
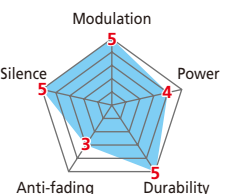
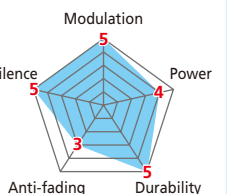
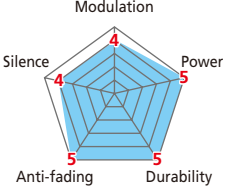
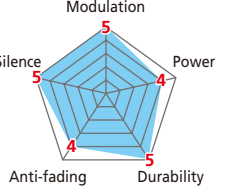
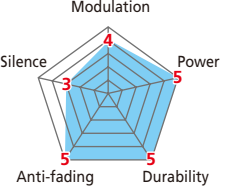
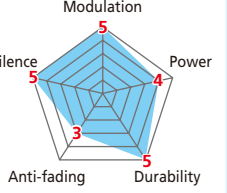
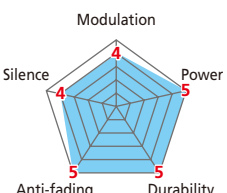
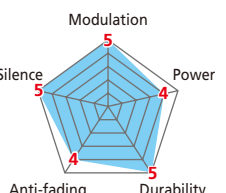
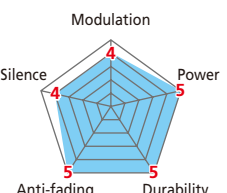
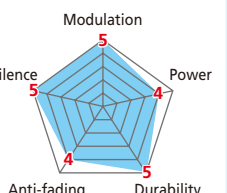
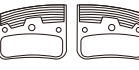
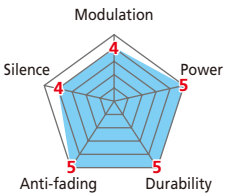
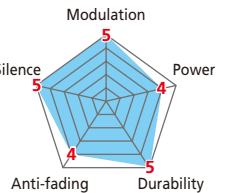
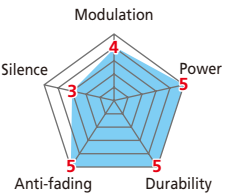


Disc brake pad selection chart

4-piston



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.	P04C	P03A	Model no.	M06	
Type	Metal	Resin	Type	Metal	
Pad Shape Narrow type 			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	EBPB05SRXBS	EBPB05SRXCS
		G04Ti-MX			Metal	—	*****				IBPG04TIMXA	—	—
		G04S-MX			Metal	—	*****				IBPG04SMXA	—	—
		G05A-RX	Narrow	2-Piston	*Resin	—	****	XTR, DEORE XT, SLX, ALFINE, SHIMANO	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8200, 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-RS785, BR-R785, BR-RS17, BR-R317, BR-U8000		EBPG05ARXA	EBPG05ARXBS	EBPG05ARXCS
		G05S-RX			*Resin	—	****				EBPG05SRXA	EBPG05SRXBS	—
		J04C-MF			Metal	X	*****				IBPJ04CMFA	IBPJ04CMFBS	—
		J05A-RF	Narrow	2-Piston	*Resin	X	****	XTR, DEORE XT, SLX, ALFINE, SHIMANO	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8200, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-M6100, BR-M6000, BR-M615, BR-S7000, BR-RS785, BR-R785, BR-U8000		EBPJ05ARFA	EBPJ05ARFBS	—
		K04Ti-MX			Metal	—	*****				IBPK04TIMXA	—	—
		K04S-MX			Metal	—	*****	XTR (M9200, M9100, M9110), DEORE XT, SLX, DURA-ACE, ULTEGRA, SHIMANO 105, TIAGRA, GRX, SHIMANO	BR-M9200, BR-M9100, BR-M9110, BR-M8110, BR-R9270, BR-R8170, BR-R7170, BR-R9170, BR-R8070, BR-R7070, BR-R4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		IBPK04SMXA	—	—
		K05Ti-RX	Narrow	2-Piston	*Resin	—	****				IBPK05TIRXA	—	—
		K05S-RX			*Resin	—	****				EBPK05SRXA	—	—
		L04C-MF			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-R4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		IBPL04CMFA	—	—
		L05A-RF	Narrow	2-Piston	*Resin	X	****				EBPL05ARFA	EBPL05ARFBS	—
		NEW P04C-MF			Metal	X	*****				IBPP04CMFA	—	—
		NEW P03A-RF	Narrow	4-Piston	Resin	X	****	XTR, DEORE XT	BR-M9220, BR-M8220		IBPP03ARFA	—	—
		D02S-MX			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, BR-U8020		IBPD02SMXA	—	—
		D03S-RX	Narrow	4-Piston	Resin	—	****				EBPD03SRXA	EBPD03SRXBS	—
		H03C-MF			Metal	X	*****	DEORE XT, SAINT, ZEE	BR-M8020, BR-M820, BR-M640		IBPH03CMFA	—	—
		H03A-RF	Narrow	4-Piston	Resin	X	****				EBPH03ARFA	—	—
		N04C-MF			Metal	X	*****				IBPN04CMFA	—	—
		N03A-RF	Narrow	4-Piston	Resin	X	****	XTR, DEORE XT, SLX	BR-M9120, BR-M8120, BR-M7120, BR-U8020		EBPN03ARFA	—	—
		M05-RX	Wide	2-Piston	Resin	—	****	SHIMANO	BR-C601, BR-M515, BR-M515LA		IBPM05RXA	—	—
		M04-RX	Narrow	2-Piston	Resin	—	****	DEORE XT	BR-M755		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		IBPM06MXA	—	—

*New resin: 50% more durable

DISC BRAKE ROTORS



ICE TECHNOLOGIES
Consistent braking performance that
is suitable for the higher average
speed and weight of an e-bike.



ICE TECHNOLOGIES combined with FREEZA disc brake rotor construction rapidly
dissipates heat for more consistent braking performance in extreme conditions.

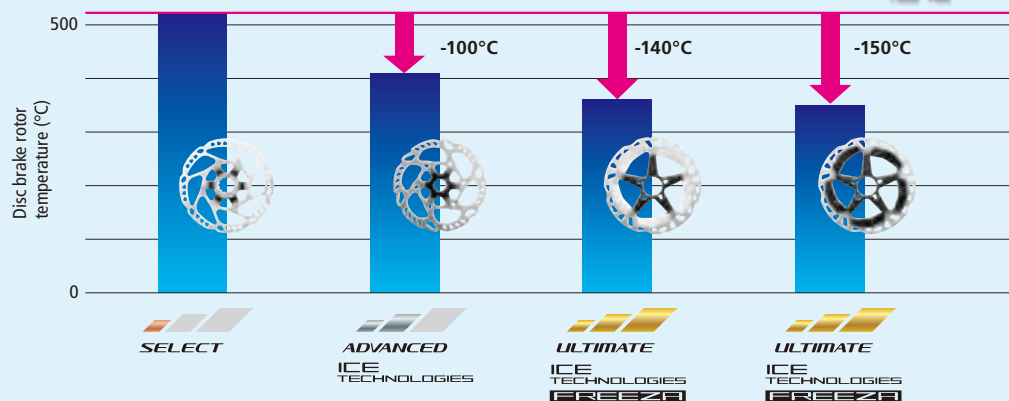
140°C reduction in heat
(vs. stainless steel disc brake rotor)

Reduce by more than 10°C due to high heat dissipation paint
(applies to SM-RT900 and RT-MT900)



SHIMANO has introduced ICE TECHNOLOGIES disc brake rotors to realize the
cooling technology for consistent performance. The clad disc brake rotor blade,
which has a 3-layer-sandwich structure of stainless steel, aluminum and
stainless steel, provides better radiation performance.

100°C reduction in heat
+5% braking force
+10% longer pad life
(vs. stainless steel disc brake rotor)



w/ high heat dissipation paint

SHIMANO original testing conditions



Disc brake caliper and disc brake rotor compatibility C-461

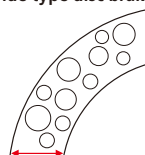
Brake caliper	Brake pad material	Pad type	Disc brake rotor					
			220 mm (LL)	203 mm (L)	180 mm (M)	160 mm (S)	140 mm (SS)	
BR-M9200*4 BR-M9220*8 BR-M9100*4 BR-M9110*5 BR-M9120*8 BR-M8200 BR-M8220*8 BR-M8100	BR-M8110*6 BR-M8120 BR-M8000 BR-M8020 BR-M7100*6 BR-M7120 BR-M6100	BR-M6120 BR-MT805*6 BR-MT520 BR-MT420 BR-M820 BR-U8000 BR-U8010*4 BR-U8020	Metal/Resin SM-RT66 SM-RT64	Narrow	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT905 RT-MT900 SM-RT99 RT-MT800 SM-RT86 SM-RT81	SM-RT64 SM-RT56*2 SM-RT54*2 SM-RT30*2 SM-RT26*2 SM-RT10*2 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66
BR-S700 BR-MT410	BR-S7000				RT-CL300 SM-RT56 SM-RT54 SM-RT30 SM-RT26 SM-RT10 RT-EM300*1	RT-CL300 SM-RT56 SM-RT54 SM-RT30 SM-RT26 SM-RT10 RT-EM300*1	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66
BR-T675 BR-T615 BR-M4050 BR-MT500 BR-M446	BR-MT400 BR-M3050 BR-M375 BR-MT200 BR-M365	BR-M315 BR-TX805 BR-U6030*8 BR-UR300*8	Metal/Resin	Narrow	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT905 RT-MT900 SM-RT99 RT-MT800 SM-RT86 SM-RT81 SM-RT76 SM-RT70 SM-RT66	SM-RT64 SM-RT56*2 SM-RT54*2 SM-RT30*2 SM-RT26*2 SM-RT10*2 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66
BR-R9270*7 BR-R9170*3 BR-R8170 BR-R8070 BR-R7170 BR-R7070 BR-4770 BR-RS805 BR-R785	BR-RS785 BR-RS505 BR-RS405*9 BR-RS305 BR-RX820 BR-RX820-LE BR-RX810 BR-RX410 BR-RX400				RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT905 RT-MT900 SM-RT99 RT-MT800 SM-RT86 SM-RT81 SM-RT76 SM-RT70 SM-RT66	SM-RT64 SM-RT56*2 SM-RT54*2 SM-RT30*2 SM-RT26*2 SM-RT10*2 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66
BR-CX77 BR-R517 BR-R317			Metal/Resin	Narrow	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT905 RT-MT900 SM-RT99 RT-MT800 SM-RT86 SM-RT81 SM-RT76 SM-RT70 SM-RT66	SM-RT64 SM-RT56*2 SM-RT54*2 SM-RT30*2 SM-RT26*2 SM-RT10*2 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66
BR-U5000*3					RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT905 RT-MT900 SM-RT99 RT-MT800 SM-RT86 SM-RT81 SM-RT76 SM-RT70 SM-RT66	SM-RT64 SM-RT56*2 SM-RT54*2 SM-RT30*2 SM-RT26*2 SM-RT10*2 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-CL300*2 RT-MT900 SM-RT900 SM-RT800 SM-RT99 RT-EM910*1 SM-RT86 RT-EM810*1 SM-RT81 SM-RT76 SM-RT70 SM-RT66

*1 Disc brake rotor for speed sensor SM-DUE11, rear only. *2 Resin pad only. *3 Not compatible with rear 180 mm (M) disc brake rotors. *4 Not compatible with 220 mm (LL) and 203 mm (L) disc brake rotors.
*5 For rear only. Not compatible with 220 mm (LL), 203 mm (L) and 180 mm (M) disc brake rotors. *6 For rear only. Not compatible 220 mm (LL) and with 203 mm (L) disc brake rotors.
*7 Not compatible with 180 mm (M) disc brake rotors. *8 Not compatible with 140 mm (SS) disc brake rotors. *9 Please note that the brake kit consisting of BR-RS405, SM-BH59-JK-SSR, and either ST-U6030-R/
ST-U6030-L or BL-U6030-L is not compatible with 140 mm (SS) disc brake rotors.

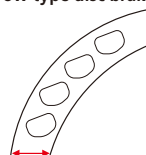
NOTE

- SM-RT56/SM-RT54/SM-RT30/SM-RT26/SM-RT10/RT-EM300/RT-CL300 are compatible with resin pad caliper specification only. If use with metal pads, disc brake rotor will be easily damaged.
- When using 140 mm disc brake rotor, braking power is less than 160 mm, please confirm the power is enough for your purpose. 140 mm disc brake rotor is recommended for rear use only.
- Narrow type 2 piece disc brake rotors are not compatible to brake caliper for wide type disc brake rotor because of interference.
- BR-UR300 doesn't need a front mount bracket and rear adapter.

Wide type disc brake rotor



Narrow type disc brake rotor



Disc brake rotor

	Mount	Model no.	Performance indicator	Technology	MTB	ROAD	E-Bike	Compatible brake pad		Disc brake rotor size	Lock ring Alloy	Lock ring spline type		Semi bulk (10 pcs.) Without lock ring for CENTER LOCK	5/6-Bolt		
								Metal	Resin			External	Internal				
 RT-CL900  RT-MT905	CENTER LOCK	RT-CL900		ICE TECHNOLOGIES 	X	-		X	X	203 mm	X	IRTCL900LE	IRTCL900LI	-	-		
					X	-		X	X	180 mm	X	IRTCL900ME	IRTCL900MI	-	-		
					X	X		X	X	160 mm	X	IRTCL900SE	IRTCL900SI	-	-		
					X	X		X	X	140 mm	X	IRTCL900SSE	IRTCL900SSI	-	-		
					-	-		X	X	203 mm	X	-	IRTCL900LJ	-	-		
					-	-		X	X	180 mm	X	-	IRTCL900MJ	-	-		
	6-Bolt	RT-MT905				X	-		X	X	203 mm	X	-	-	-	IRTMT905L	
						X	-	X	X	180 mm	X	-	-	-	-	IRTMT905M	
 RT-CL800	CENTER LOCK	RT-CL800		ICE TECHNOLOGIES 	X	-		X	X	203 mm	X	IRTCL800LE	IRTCL800LI	-	-		
					X	-		X	X	180 mm	X	IRTCL800ME	IRTCL800MI	-	-		
					X	X		X	X	160 mm	X	IRTCL800SE	IRTCL800SI	-	-		
					X	X		X	X	140 mm	X	IRTCL800SSE	IRTCL800SSI	-	-		
					-	-		X	X	203 mm	X	-	IRTCL800LJ	-	-		
					-	-		X	X	180 mm	X	-	IRTCL800MJ	-	-		
					-	-		X	X	160 mm	X	-	IRTCL800SJ	-	-		
					 RT-CL700	CENTER LOCK		NEW RT-CL700		ICE TECHNOLOGIES	X	-		X	X	203 mm	-
X	-	X	X	180 mm			-				ERTCL700ME	ERTCL700MI		-	-		
X	X	X	X	160 mm			-				ERTCL700SE	ERTCL700SI		-	-		
X	X	X	X	140 mm			-				ERTCL700SSE	ERTCL700SSI		-	-		
X	-	X	X	203 mm			-				ISMRT70LE	ISMRT70L		-	-		
X	-	X	X	180 mm			-				ISMRT70ME	ISMRT70M		-	-		
X	X	X	X	160 mm			-				ESMRT70SE	ESMRT70SI		-	-		
X	X	X	X	140 mm			-				ESMRT70SSE	ESMRT70SSI		-	-		
 SM-RT70  SM-RT64	CENTER LOCK	SM-RT70		ICE TECHNOLOGIES	X	-		X	X	220 mm	-	ESMRT64LLEC	-	-	-		
					X	-		X	X	203 mm	-	ESMRT64LEC	ESMRT64LI3C	-	-		
					X	-		X	X	180 mm	-	ESMRT64MEC	ESMRT64MI3C	ESMRT64MXSC	-		
					X	X		X	X	160 mm	-	ESMRT64SEC	ESMRT64SI3C	ESMRT64SXSC	-		
		SM-RT64		Standard	X	-		X	X	203 mm	-	ESMRT64LEC	ESMRT64LI3C	-	-		
					X	-	X	X	180 mm	-	ESMRT64MEC	ESMRT64MI3C	ESMRT64MXSC	-			
					X	X	X	X	160 mm	-	ESMRT64SEC	ESMRT64SI3C	ESMRT64SXSC	-			
					X	-	X	X	160 mm	-	ESMRT64SE	ESMRT64SI3C	ESMRT64SXSC	-			
 SM-RT54  SM-RT30  SM-RT10	CENTER LOCK	SM-RT54			X	-		-	X	180 mm	-	ESMRT54ME	ESMRT54MI3	ESMRT54MXS	-		
					X	-		-	X	160 mm	-	ESMRT54SE	ESMRT54SI3	ESMRT54SXSC	-		
					X	-		-	X	203 mm	-	ESMRT30L2	-	-	-		
		SM-RT30		Standard	X	-		-	X	180 mm	-	ESMRT30M2	-	-	-		
					X	-	-	X	160 mm	-	ESMRT30S2	-	-	-			
					X	-	-	X	180 mm	-	ESMRT10M2	-	-	-			
		SM-RT10				X	-		-	X	160 mm	-	ESMRT10S2	-	-	-	
						X	-	-	X	160 mm	-	ESMRT10S2	-	-	-		
 SM-RT86  SM-RT76  SM-RT66  SM-RT56  SM-RT26	6-Bolt	SM-RT86		ICE TECHNOLOGIES	X	-		X	X	203 mm	-	-	-	-	ESMRT86L2		
					X	-		X	X	180 mm	-	-	-	-	-	ESMRT86M2	
		SM-RT76			X	X	X	X	160 mm	-	-	-	-	-	ESMRT86S2		
					X	-		X	X	203 mm	-	-	-	-	-	ESMRT76L2	
		SM-RT66			X	-		X	X	180 mm	-	-	-	-	-	ESMRT76M2	
					X	X		X	X	160 mm	-	-	-	-	-	ESMRT76S2	
		SM-RT56			X	-		X	X	220 mm	-	-	-	-	-	ESMRT66LLP	
					X	-		X	X	203 mm	-	-	-	-	-	ESMRT66LP	
		SM-RT26			X	-		X	X	180 mm	-	-	-	-	ESMRT66MSP	ESMRT66MP	
					X	-		X	X	160 mm	-	-	-	-	ESMRT66SSP	ESMRT66SP	
		RT-EM910	CENTER LOCK	RT-EM910		ICE TECHNOLOGIES 	-	-		X	X	203 mm	X	IRTEM910LE	IRTEM910LI	-	-
							-	-		X	X	180 mm	X	IRTEM910ME	IRTEM910MI	-	-
							-	-		X	X	160 mm	X	IRTEM910SE	IRTEM910SI	-	-
							-	-		X	X	203 mm	X	IRTEM810LE	IRTEM810LI	-	-
				RT-EM810			-	-		X	X	180 mm	X	IRTEM810ME	IRTEM810MI	-	-
							-	-	X	X	160 mm	X	IRTEM810SE	IRTEM810SI	-	-	
-	-						X	X	203 mm	-	ERTEM600LEC	Black: ERTEM600LI3C Silver: ERTEM600LIC	-	-			
-	-						X	X	180 mm	-	ERTEM600MEC	Black: ERTEM600MI3C Silver: ERTEM600MIC	-	-			
RT-EM600			-	-		X	X	160 mm	-	ERTEM600SEC	Black: ERTEM600SI3C Silver: ERTEM600SIC	-	-				
			-	-		-	X	203 mm	-	ERTEM300L	ERTEM300L	-	-				
			-	-		-	X	180 mm	-	ERTEM300M	ERTEM300M	-	-				
			-	-		-	X	160 mm	-	ERTEM300S	ERTEM300S	-	-				
RT-EM300				-	-		-	X	203 mm	-	ERTEM300L	ERTEM300L	-	-			
				-	-	-	X	180 mm	-	ERTEM300M	ERTEM300M	-	-				
RT-EM600				-	-		-	X	180 mm	-	ERTEM300M	ERTEM300M	-	-			
				-	-		-	X	160 mm	-	ERTEM300S	ERTEM300S	-	-			
 SM-RT60S	5-Bolts with 74 mm PCD	SM-RT60S			-	-		X	X	160 mm	-	-	-	-	ESMRT60S		

DISC BRAKE HOSE



Brake hose rigidity



Disc brake hose							
	Model no.	Series	Connection	Included parts	Note	Code no.	
	SM-BH90-SBLS *1	SAINT	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 Banjo screw x1 O-ring x3 Hose joint cover x1	*****	Black 1,000 mm	ISMBH90SBL100
						Black 1,700 mm	ISMBH90SBL170
						Black 2,000 mm	ISMBH90SBL200
	SM-BH90-SBLS *1	DEORE XT (BR-M8020)	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 Banjo screw x1 O-ring x3	*****	Black 1,000 mm	ISMBH90SBL100B
						Black 1,700 mm	ISMBH90SBL170B
						Black 2,000 mm	ISMBH90SBL200B
	SM-BH90-SBS *2	ZEE	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 Banjo screw x1 O-ring x3 Hose joint cover x1	*****	Black 1,000 mm	ISMBH90SBS100
						Black 1,700 mm	ISMBH90SBS170
						Black 2,000 mm	ISMBH90SBS200
	SM-BH90-SBM	XTR DEORE XT SLX	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 Banjo screw x1 O-ring x3 Hose joint cover x1	*****	Black 1,000 mm	ISMBH90SBML100
						Black 1,700 mm	ISMBH90SBML170
						Black 2,000 mm	ISMBH90SBML200
	SM-BH90-SBM	XTR (NEW BR-M9220/M9120) DEORE XT (NEW BR-M8220/M8100/M8120) SLX (BR-M7100/M7120)	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 O-ring x3	*****	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	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 O-ring x3	*****	Black 1,000 mm	ISMBH90SBML100A
						Black 1,700 mm	ISMBH90SBML170A
						Black 2,000 mm	ISMBH90SBML200A
	SM-BH90-SB *3	XTR (BR-M987/M985) DEORE XT ALFINE SLX	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 Banjo screw x1 O-ring x3 Hose joint cover x1	*****	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	Flare nut x2 Flange flare nut x1 Olive x2 Connector insert for SM-BH90 x2	*****	Black 1,000 mm	ISMBH90JKSSL100
						Black 1,700 mm	ISMBH90JKSSL170
	SM-BH90-SS	XTR (NEW BR-M9200/M9100/M9110) DEORE XT (NEW BR-M8200/M8110) SLX (BR-M7110) DEORE DEORE LX (BR-MT520)	Straight - Straight	Flare nut x2 Olive x2 Connector insert for SM-BH90 x2	*****	Black 1,000 mm	ESMBH90SSL100
						Black 1,700 mm	ESMBH90SSL170
						Black 2,000 mm	ESMBH90SSL200
	SM-BH59-SB *3	SHIMANO BR-R785	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH59 x1 Banjo screw x1 O-ring x3	***	Black 1,000 mm	ISMBH59SBL100
						Black 1,700 mm	ISMBH59SBL170
	SM-BH59-JK-SS	SHIMANO MTB	Straight - Straight	Flare nut x2 Olive x2 Connector insert for SM-BH59 x2	***	Black 1,000 mm	ESMBH59JKL100
						Black 1,700 mm	ESMBH59JKL170
						Black 2,000 mm	ESMBH59JKL200
	SM-BH59-JK-SS	SHIMANO ROAD	Straight - Straight	Flare nut x2 Olive x2 Connector insert for SM-BH59 x2	***	Black 1,000 mm	ISMBH59JKSSL100
						Black 1,700 mm	ISMBH59JKSSL170
						Black 2,000 mm	ISMBH59JKSSL200
	NEW SM-BH59-JK-SSR	SHIMANO CUES	Straight - Straight	Flare nut x1 Flange flare nut x1 Olive x2 Connector insert for SM-BH59 x2	***	Black 1,000 mm	ISMBH59JKSSRL100
						Black 1,700 mm	ISMBH59JKSSRL170

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

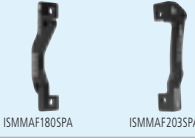
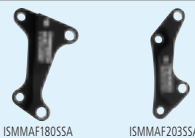
DISC BRAKE PAD & BLEED SPACER

Pad spacer			Bleed spacer		
	Code no.	Model no.		Code no.	Model no.
	Y8J709000	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8200, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-R5785, BR-R785, BR-S700, BR-U8000		Y8J712000	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-R5785, 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		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
	Y8J506000	BR-M447, BR-M446, BR-M445, BR-M4050, BR-M395, BR-M355, BR-M3050, BR-T675, BR-T615		Y8FF19000	BR-M9120, BR-M8120, BR-M8020, BR-M7120, BR-M6120, BR-M820, BR-M810, BR-M640, BR-MT520, BR-MT420
	Y8FF18000	BR-M9120, BR-M8020, BR-M820, BR-M810, BR-M640		Y8J712100	BR-M6100, BR-M6000, BR-M615, BR-S7000
	Y84E03000	BR-M6000, BR-M615		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
	Y8C515000	BR-M575, BR-M525, BR-M486, BR-M485		Y2HW15000	BR-R9270, BR-R8170, BR-R7170
	Y8PE03000	BR-M6100, BR-MT500, BR-MT410, BR-MT400, BR-MT200, BR-UR300, BR-S7000		NEW Y2RB9802T	BR-M9220, BR-M8220
	Y8N218000	BR-R9270, BR-R8170, BR-R7170, BR-M9100, BR-M9110, BR-MT805, BR-M8110, BR-M7110, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RX810, BR-RX410, BR-RX400, BR-RS805, BR-RS505, BR-RS405, BR-U5000, BR-RX820			
	Y1Y003000	BR-M8120, BR-M7120, BR-M6120, BR-MT520, BR-MT420, BR-U8020			
	NEW Y2RB9801T	BR-M9220, BR-M8220			

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)		
 ISMMA90F180PPC ISMMA90F203PPM ISMMA90F160PS ISMMA90R140PS ISMMA90R160PS ISMMA90R180PS		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	-	-
 ISMMAF203PPA ISMMAF203PPL2 ISMMAF203PPM ISMMAF220PPL ISMMAF220PPL2 ISMMAF160PSA ISMMAF180PSA ISMMAF203PSA ISMMAF140PDA ISMMAF160PDA ISMMAF160PSA ISMMAF180PSA ISMMAF203PSA ISMMAF140PDH ISMMAF160PDH		Front	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	-
		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		ISMMAF140PDA	ISMMAF160PDA	-	-	-

*Only includes converter fixing bolt for mount thickness 25 mm. Refer to page 19 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)	
 ISMMAF180SPA ISMMAF203SPA		Front	Post mount	–	–	ISMMAF180SPA	ISMMAF203SPA	–	
 ISMMAF180SSA ISMMAF203SSA		Front	International A-standard	–	Direct mount	ISMMAF180SSA	ISMMAF203SSA	–	
 ISMMAR180SSA ISMMAR203SSA		Rear	International A-standard	–	Direct mount	ISMMAR180SSA	ISMMAR203SSA	–	

Disc brake rotor adapter			
	Model no.	Remark	Code no.
	SM-RTAD05	To be used for installing a 6-bolt type disc brake rotor to CENTER LOCK system hub/wheel.	ESMRTAD05

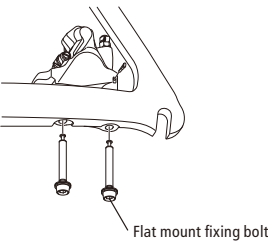
Lock ring for 15 mm E-THRU/20 mm thru		
	Remark	Code no.
	Lock ring & Washer for E-THRU hub, External serration (Alloy type)	Y26L98030
	Lock ring & Washer for E-THRU hub, External serration (Standard)	Y24698030
	Lock ring & Washer for E-THRU hub, Internal and External serration	Y8JX98020

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	ISMMAR160DDB	–	–	–

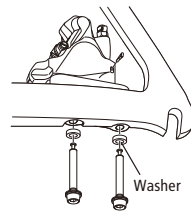
Converter for flat frame and postmount caliper							
	Performance indicator	Fork and frame mount style		Disc brake rotor size			
				140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)
 ISMMAF140PDA ISMMAF160PDA		Front	140 mm flat mount	ISMMAF140PDA	ISMMAF160PDA	–	–
 ISMMAR140PDH ISMMAR160PDH		Rear	140 mm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

Mounting flat mount type brake caliper on the bicycle frame

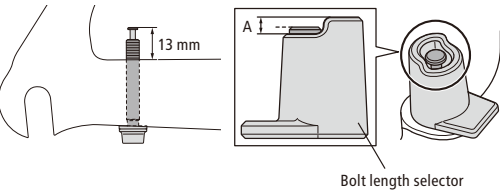
In case of using 140 mm disc brake rotor for rear disc brake



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



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

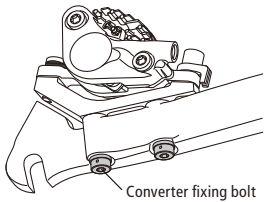
Fixing bolt for flat mount			
Frame thickness	Bolt length	Unit (pcs)	Code no.
10 mm	23 mm	1	Y8N208000*2
15 mm	28 mm	1	Y8N208050*2
20 mm	33 mm	1	Y8N208010*2
25 mm	38 mm	1	Y8N208020*1
30 mm	43 mm	1	Y8N208030*2
35 mm	48 mm	1	Y8N208040*2

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

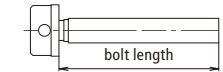
*1 Included in flat mount type brake caliper

*2 Not included in brake caliper

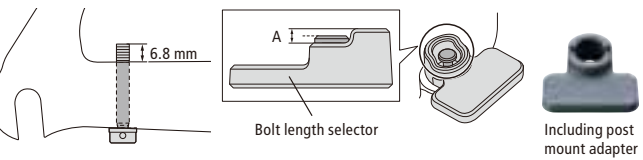
Mounting post mount type brake caliper with flat mount converter on the bicycle frame



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.

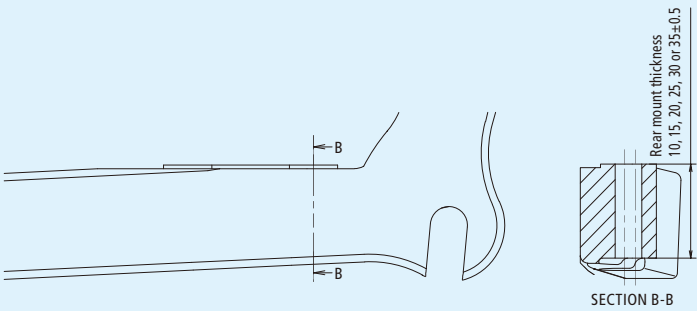
*1 Included in mount converter SM-MA-R140P/D (ISMMAR140PDH), SM-MA-R160P/D (ISMMAR160PDH)

*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



ROAD



MTB



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 Brake Shoes

Cartridge type shoes set

	Model no.	Series	Icon								Compatibility model	Remark	Unit (pair)	Code no.
	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

	Model no.	Series	Icon								Compatibility model	Remark	Unit (pair)	Code no.
	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
	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)										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-5810, BR-5800, BR-5710, BR-5700, BR-5600, BR-5501, BR-5500, BR-R650, BR-R600, BR-R561, BR-R560, BR-CX70		2	Y8L298072

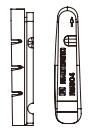
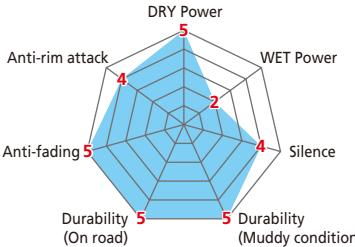
Brake shoes

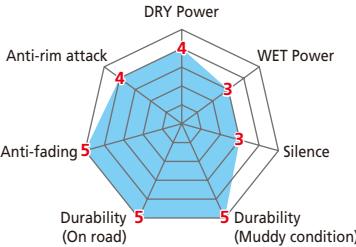
	Model no.	Series	Icon								Compatibility model	Remark	Unit (pair)	Code no.
	BR-6403		X	-	-	X	-	-	-	-	BR-6403, BR-4400, BR-3300, BR-1055, BR-A550, BR-A450, BR-A416, BR-A410, BR-A350, BR-A250		5	Y83G98010
	R50T2 (BR-4600)	TIAGRA SORA	X	-	-	X	-	-	-	-	BR-4600, BR-4500, BR-3500, BR-3400, BR-2400, BR-R451, BR-R450		5	Y8JY98070
	M50T		X	-	-	X	-	-	-	-	BR-4400, BR-3300, BR-1055, BR-A550, BR-A450, BR-A416, BR-A410, BR-A350, BR-A250		10	Y88C98100
	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		X	-	-	X	-	-	-	-			5	Y8MG98090

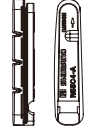
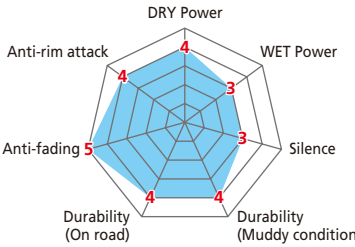
Power and control

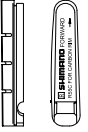
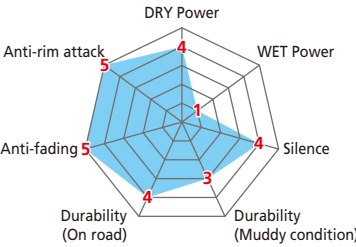
Always use SHIMANO brake shoes to ensure top brake performance and maintain the safety of your SHIMANO brake system. SHIMANO's racing brake cartridges provide the ideal hardness for high stopping power combined with great levels of control.

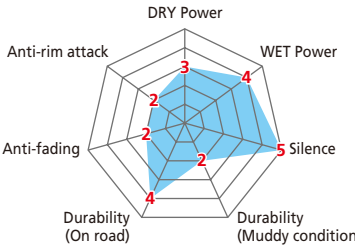
Shoe characteristics

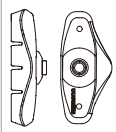
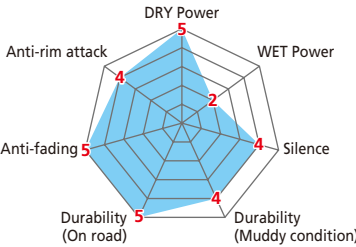
Model no.		
R55C4		
Cartridge type	X	
Recommended rim	Aluminum	

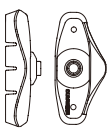
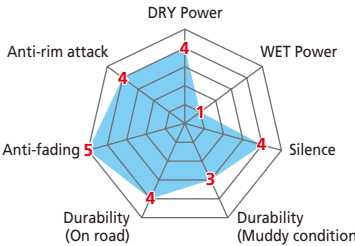
Model no.		
R55C4 For Carbon Rim		
Cartridge type	X	
Recommended rim	Carbon	

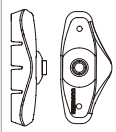
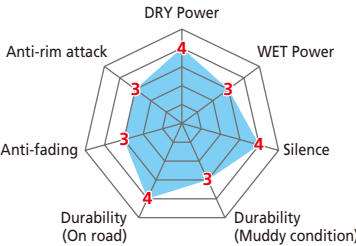
Model no.		
R55C4-A For Carbon Rim		
Cartridge type	X	
Recommended rim	Carbon	

Model no.		
R55C+1		
Cartridge type	X	
Recommended rim	Aluminum	

Model no.		
M50T		
Cartridge type	—	
Recommended rim	Aluminum	

Model no.		
R50T5		
Cartridge type	—	
Recommended rim	Aluminum	

Model no.		
R50T2		
Cartridge type	—	
Recommended rim	Aluminum	

Model no.		
R50T4		
Cartridge type	—	
Recommended rim	Aluminum	

MTB Brake Shoes

Cartridge type shoes set

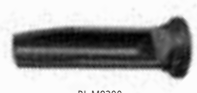
	Model no.	Series	Icon							Compatibility model	Remark	Unit (pair)	Code no.
	M70R2 (BR-M770)	DEORE XT	X	—	*****	X	—	—		BR-M770, BR-M760, BR-M750, BR-M739, BR-M600, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-T670, BR-T660, BR-T610, BR-T4010, BR-T4000, 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

	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

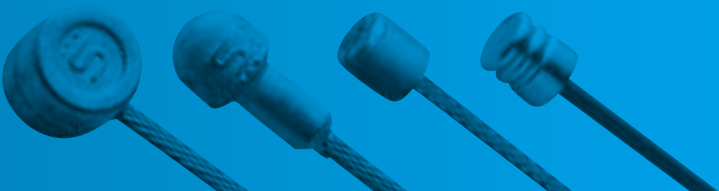
Brake shoes												
	Model no.	Series	Icon						Compatibility model	Remark	Unit (pair)	Code no.
 M70T3	M70T4		X	—	****	X	—	—	BR-M760, BR-M750, BR-M739, BR-M600, BR-M590, BR-M580, BR-M570, BR-M530, BR-M510, BR-M432, BR-M431, BR-M430, BR-M422, BR-M421, BR-M420, BR-M330, BR-T660, BR-T610, BR-T4010, 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

DIAPHRAGM

Diaphragm					
	Model no.	Diaphragm	Cap	Fixing screw	Diaphragm unit
 BL-M9200	NEW BL-M9220	Y2RJ9801T	Y2RJ9802T	Y8SZ07000	Y2RJ98060
	NEW BL-M8200				
 BL-M9100	NEW BL-M9200	Y8WM9801T	Y1XJ9801T	Y8SZ07000	Y1XJ98030
	BL-M9100				
	BL-M9120	Y1XK9801T	Y1XJ9801T	Y8SZ07000	Y1XK98030
	BL-M8100				
 BL-M7100	BL-M7100	Y1XK9801T	Y1XJ9801T	Y88414000	Y2HS98010
	BL-T8100				
	BL-T8100-LE	Y1XK9801T	Y1XJ9801T	Y88414000	Y2HS98010
 BL-M820-B	BL-M820-B	Y8V39801T	Y8V39802T	Y8SZ07000	Y8V398050
	BL-M8000	Y8V39801T	Y8MX9801T	Y8SZ07000	—
	BL-M6100	Y8RM9801T	Y1XW9802T	Y1XW9803T	Y2GR98020
	BL-M4100				
 BL-MT401-3A	BL-MT401-3A				
	BL-MT402-3A				
 BL-MT501	BL-MT501	Y8V39801T	Y8RM9802T	Y8SZ07000	—
	BL-MT401	Y8V39801T	Y1XW9802T	Y1XW9803T	—
	BL-MT201	Y1XW9801T	Y1XW9802T	Y1XW9803T	Y1XW98010
	BL-MT200				
 BL-M820-B	BL-U8000	Y1XK9801T	Y2R09803T	Y88414000	Y2R098020

SHIFTING/BRAKE CABLE SYSTEMS

At the heart of performance and control.



CABLES

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

ROAD

MTB

ROAD

MTB

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

SP41
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.

Cable Type	Efficiency (Relative to SUS)
Stainless steel (SUS) cable	100
OPTISLICK	~130
Polymer coated cable	~135

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

Recommended for internal cable routing

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.

Stainless steel cable

OPTISLICK Coating

Polymer coated cable

Inner cable

Inner cable

Inner cable

Polymer coating

Recommended for internal cable routing



OTHERS



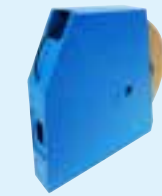
SHIMANO cable dispensers

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.

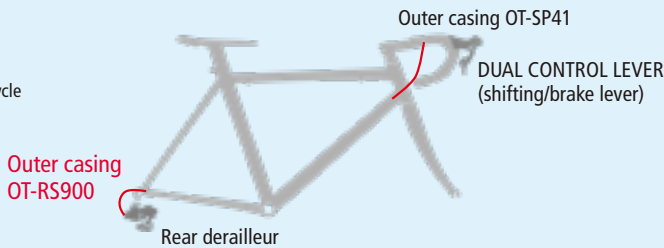
Product			With brown outer box	Without brown outer box
Shift cable	OT-SP41	Black 50 m	IOT41SP50ML	Y6009858A
	BC-9000	Black 40 m	Y8YZA0489	Y8YZA048B
Brake Cable	SLR	Black 40 m	Y80900011	Y8090001A
	M-SYSTEM	Black 40 m	Y80900013	Y8090001B



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

OT-RS900

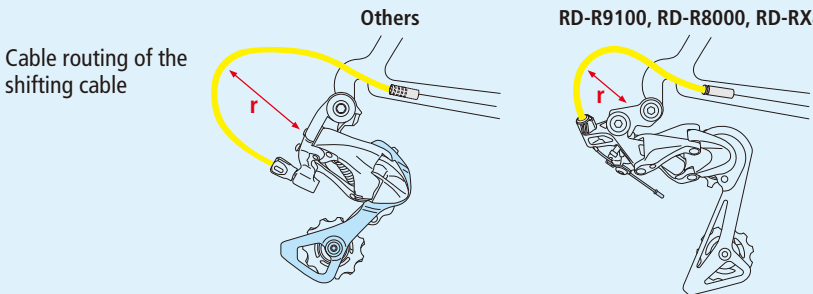
RD-R9100, RD-R8000, RD-RX800 and RD-R7000 must be assembled on the bicycle with a special outer casing, OT-RS900.



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.

**OT-RS900 should be used only on the rear derailleur side. It should not be used on the shift/brake lever side.

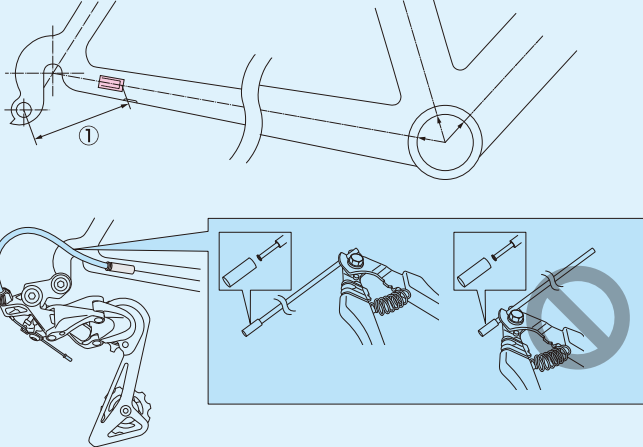


OT-RS900	
OT-SP41	

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)

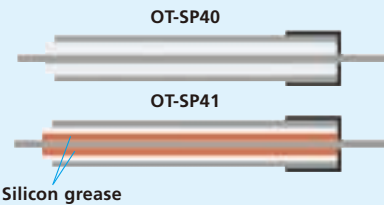


Outer casing length (mm)	Outer casing	Dimension ①							
		40 mm	50 mm	60 mm	80 mm	100 mm	125 mm	150 mm	
	OT-RS900	110	130	150	170	200	220	240	

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 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		• 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		• Stainless steel • ø 1.2 mm x 2,100 mm incl. inner end cap	Y60198100
	SELECT	Stainless steel shifting inner cable for tandem		• Stainless steel • ø 1.2 mm x 3,000 mm incl. inner end cap	Y60030014
		Steel shifting inner cable		• Steel • ø 1.2 mm x 2,100 mm • 10 pack sets	Y60098100

Road shifting cable sets

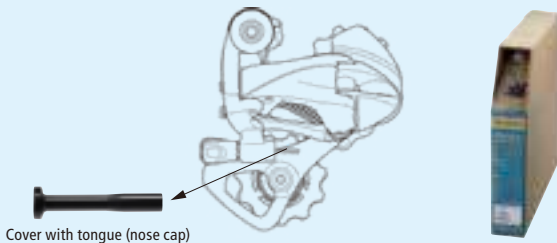
OT-SP41 polymer coated shifting cable sets (OT-RS900 is included)						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.2 mm x 2,100 mm (1 pc.) • ø 1.2 mm x 1,800 mm (1 pc.) • Polymer coating • Stainless steel	ULTIMATE	• Outer cap with short tongue for ST (2 pcs.) • 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.)	• OT-SP41 1,700 mm • OT-RS900 (1 pc.)		Black	Y08M98010
					White	Y08M98020
					Red	Y08M98030
					High-tech gray	Y08M98040

OT-SP41 polymer coated shifting cable sets						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• 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	• 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.)	• OT-SP41 1,700 mm		Black	Y63Z98910
					White	Y63Z98920
					Red	Y63Z98930
					High-tech gray	Y63Z98940
					Blue	Y63Z98991
					Yellow	Y63Z98992
					Lime green	Y63Z98990
					Orange	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.



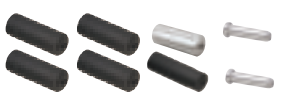
OT-SP41 OPTISLICK shifting cable sets (OT-RS900 is included)

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.2 mm x 2,100 mm (1 pc.) • ø 1.2 mm x 1,800 mm (1 pc.) • OPTISLICK • Stainless steel 		• 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.) 	• 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.
• ø 1.2 mm x 2,100 mm (1 pc.) • ø 1.2 mm x 1,800 mm (1 pc.) • OPTISLICK • Stainless steel 		• 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.) 	• 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.
• Stainless steel inner 2,100 mm (2 pcs.) 		• 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.) 	• 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.
• Steel inner 2,100 mm (2 pcs.) 		• Inner end caps (2 pcs.) • SIS-SP40 outer caps (6 pcs.) 	• 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.
• ø 1.2 mm x 2,100 mm • ø 1.2 mm x 1,800 mm • Polymer coating • Stainless steel 		• 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.) 	• OT-SP41 3,300 mm		Black	 Y01V98110

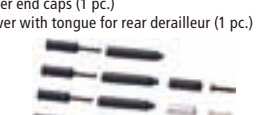
OT-SP41 OPTISLICK shifting cable sets for triple/double chainrings bike (Also works for dropper seat post)

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.2 mm x 2,100 mm • ø 1.2 mm x 1,800 mm • OPTISLICK • Stainless steel 		• Sealed outer caps, plastic (9 pcs.) • Sealed outer cap nose (1 pc.) • Rubber shield (1 pc.) • Inner end caps (2 pcs.) 	• OT-SP41 3,300 mm		Black	 Y60198090

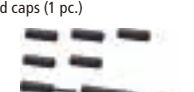
OT-SP41 Stainless steel shifting cable sets for triple/double chainring bikes

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.2 mm x 2,100 mm • ø 1.2 mm x 1,800 mm • Stainless steel 		• Sealed outer caps, plastic (9 pcs.) • Sealed outer cap nose (1 pc.) • Rubber shield (1 pc.) • Inner end caps (2 pcs.) 	• OT-SP41 3,000 mm		Black	 Y60098021

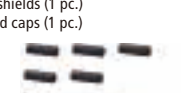
OT-SP41 Polymer coated shifting cable sets for single chainring bikes

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.2 mm x 2,100 mm • Polymer coating • Stainless steel 		• 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.) 	• OT-SP41 2,000 mm		Black	 Y01V98112

OT-SP41 OPTISLICK shifting cable sets for single chainring bike (Also works for dropper seat post)

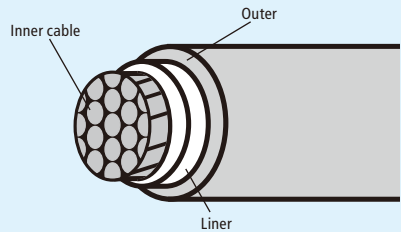
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.2 mm x 2,100 mm • OPTISLICK • Stainless steel 		• Sealed outer caps, plastic (5 pcs.) • Sealed outer caps nose (1 pc.) • Rubber shields (1 pc.) • Inner end caps (1 pc.) 	• OT-SP41 2,000 mm		Black	 Y60198092

OT-SP41 Stainless steel shifting cable sets for single chainring bikes

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.2 mm x 2,100 mm • Stainless steel 		• Sealed outer caps, plastic (5 pcs.) • Sealed outer caps nose (1 pc.) • Rubber shields (1 pc.) • Inner end caps (1 pc.) 	• 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

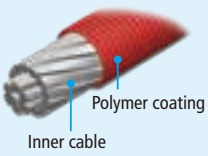


Brake inner cable types:

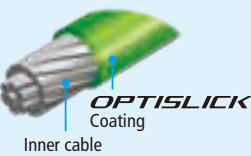


Polymer coated brake inner cable
Leading-edge technology for the highest level of riding

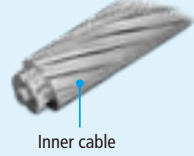
Polymer coated cable



SIL-TEC coating



Stainless steel cable



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



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		• 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		• SIL-TEC coating • ø 1.6 mm x 2,050 mm • Stainless steel incl. inner end cap	Y80098320
		Stainless steel brake inner cable		• ø 1.6 mm x 2,050 mm • Stainless steel	Y80098330
		Stainless steel brake inner cable for tandem		• 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		• ø 1.6 mm x 2,050 mm • Stainless steel incl. inner end cap	Y80098210
		Stainless steel brake inner cable for tandem		• 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.
		Double-End steel brake inner cable (diameter 1.6 mm x 2,050 mm)		• ø 1.6 mm x 2,050 mm • Double-end steel, incl. inner end cap	1	Y80098411
		Double-End steel brake inner cable (diameter 1.6 mm x 2,050 mm/10-pack)		• ø 1.6 mm x 2,050 mm • Double-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.
• ø 1.6 mm x 1,000 mm (1 pc.) • ø 1.6 mm x 2,000 mm (1 pc.) • Polymer coating • Stainless steel		• Outer cap with tongue for BC-9000 (2 pcs.) • Inner end cap (2 pcs.)	• BC-9000 brake outer casing • 1,800 mm (1 pc.) • 800 mm (1 pc.)		Black White Red High-tech gray Blue Yellow Lime green Orange	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.
• ø 1.6 mm x 1,000 mm • ø 1.6 mm x 2,000 mm • SIL-TEC coating • Stainless steel		• Inner end caps (2 pcs.) • Outer end caps (2 pcs.)	• SLR 1,400 mm • SLR 800 mm		Black White Red High-tech gray Blue Yellow Lime green Orange	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.
• ø 1.6 mm x 1,000 mm • ø 1.6 mm x 2,050 mm • Stainless steel		• Inner end caps (2 pcs.) • Outer end caps (2 pcs.)	• SLR 2,200 mm		Black	Y80098019

MTB brake cable sets

M-System stainless steel brake cable sets

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.6 mm x 1,000 mm • ø 1.6 mm x 2,050 mm • Stainless steel		• Inner end caps (2 pcs.) • Outer end caps (2 pcs.)	• M-System 2,200 mm		Black	Y80098021

Road/MTB brake cable sets

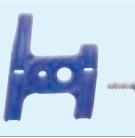
M-System steel brake cable sets

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
• ø 1.6 mm x 1,000 mm • ø 1.6 mm x 2,050 mm • Steel		• Inner end caps (2 pcs.) • Plain brass/Nickel-plated outer end cap (4 pcs.)	• M-System 2,200 mm		Black	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.	Unit/Qty	Code no.
	SM-CB90	1	ISMCB90

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

Tube liner				
	Model no.	Description	Qty/length	Code no.
	Tube liner	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

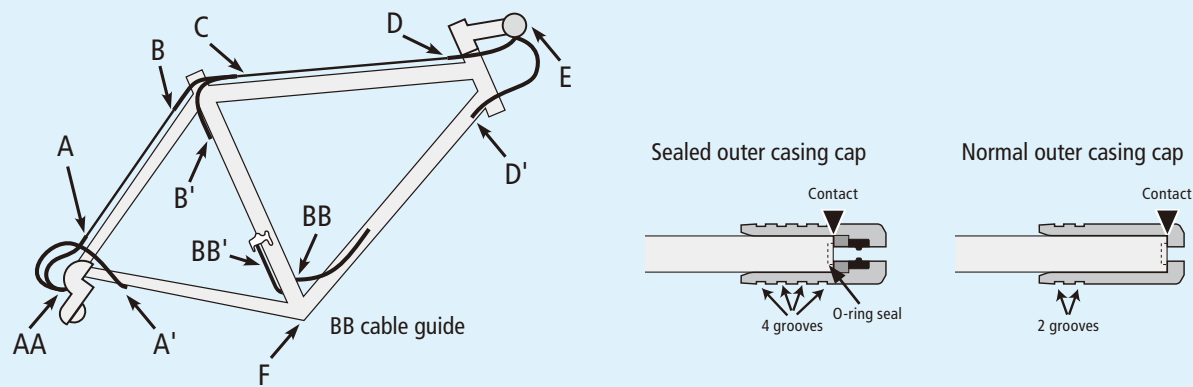
*Workshop Jar

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.	
	—	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	

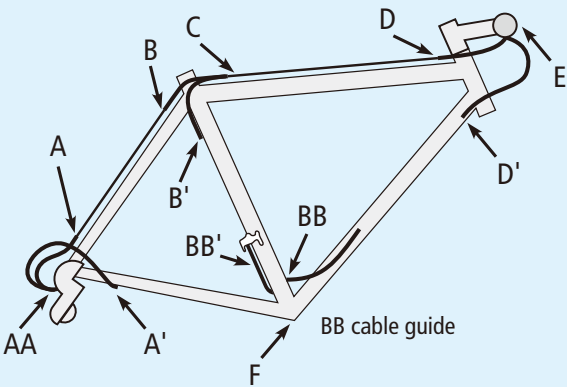
Brake outer cap								
	Material	Description	Inside diameter of cap (mm)	QTY (pcs. per box)	Icon	Code no.	Workshop Jar QTY.	Code no.
	Aluminum	Outer cap with tongue for BC-9000	5	1		Y8YZ98060	—	—
	Aluminum	Sealed brake ferrule, original replacement for BR-M950, BR-M739/black	5	1		Y87298110	—	—
	Steel	Outer cap steel for shift/brake cable	5	100		Y60B98010	200	Y60B98011

RECOMMENDED SEMI-BULK PACKAGE



FOR ROAD BIKES

Item	Required QTY (length)	Model	Image	Image (semi-bulk)	Code (semi-bulk)	Contents	Recommended SERIES (X =Standard Spec)												
							DURA-ACE (R9100)	DURA-ACE (9001)	ACEULTEGRA (R8000)	ULTEGRA (6800)	SHIMANO 105 (R7000)	SHIMANO 105 (5000)	TIAGRA (4700)	SORA (R3000)	CLARIS (R2000)	TOURNEY (A070)	GRX (RX810)	GRX (RX600)	GRX (RX400)
Outer casing	1,700 mm	OT-SP41 Black			Y6009858A	50 m	x	x	x	x	x	x	x	x	x	OT-SIS40	x	x	x
Outer casing for RD	240 mm	OT-R5900 Black			Y08M98011	10 pcs.	x		x		x						x	x	x
Inner cable	2,100 mm 1 pc.	Polymer coated (SUS)			Y63Z98951	2,100 mm 20 pcs.	x	x	x	x							x		
		OPTISLICK (SUS)			Y60198110	50 pcs.					x	x	x	x	x (steel)			x	x
		Normal (SUS)			ESMSCINNERS	100 pcs.										x (option)			
		Normal (steel)			ESMSCINNER	100 pcs.											x		
E	Outer cap for ST	2 pcs.	Outer cap with short tongue		Y63Z98810	100 pcs.	x	x	x	x	x	x	x	x	x		x	x	x
			Normal outer cap		Y6ZA98012	200 pcs.										x			
D/D/C/B/B	Outer cap for cable hole (down/top/seat tube, seat stay)	2 pcs. (depends on cable routing)	Outer cap with long tongue		Y63Z98960	100 pcs.	x	x	x	x							x		
			Sealed outer cap		Y6ZZ98012	200 pcs.	x (for internal routing)	x (for internal routing)	x (for internal routing)	x (for internal routing)							x (for internal routing)		
			Normal outer cap		Y6ZA98012	200 pcs.					x	x	x	x	x	x		x	x
BB/BB'	Outer cap for FD	1 pc.	Normal outer cap		Y6ZA98012	200 pcs.	x		x								x		
A/A	Outer cap for cable hole (chain/seat stay)	1 pc.	Outer cap with long tongue		Y63Z98960	100 pcs.	x	x	x	x							x		
			Sealed outer cap		Y6ZZ98012	200 pcs.	x (for internal routing)	x (for internal routing)	x (for internal routing)	x (for internal routing)	x	x	x	x	x		x (for internal routing)	x	x
			Normal outer cap		Y6ZA98012	200 pcs.										x			
AA	Outer cap for RD	1 pc.	Aluminum sealed outer cap		Y6YX90011	100 pcs.	x	x	x	x							x		
			Sealed outer cap		Y6ZZ98012	200 pcs.					x	x	x	x	x			x	x
			Normal outer cap		Y6ZA98012	200 pcs.										x			
Inner end cap	2 pcs.	Inner end cap			Y62098035	500 pcs.	x	x	x	x	x	x	x	x	x	x	x	x	x



FOR MTB

	Item	Required QTY (length)	Model	Image	Image (semi-bulk)	Code (semi-bulk)	Contents	Recommended SERIES (X =Standard Spec)										
								XTR (M9100)	SAINT (M820)	XT (M8100)	SLX (M7100)	DEORE	SHIMANO ALIVIO (M4000)	SHIMANO ALIVIO (M3100)	ACERA (M3000)	ALTUS (M2000)	ALTUS (others)	TOURNEY
	Outer casing	3,000 mm	OT-SP41 Black			Y6009858A	50 m	x	x	x	x	x	x	x	x	x	OT-SIS40	
	Inner cable	2,100 mm 1 pc. 1,800 mm 1 pc.	Polymer coated (SUS)			Y63Z98951	2,100 mm 20 pcs.	x										
			OPTISLICK (SUS)			Y60198110	50 pcs.			x	x	x		x (steel)		x (steel)		
			Normal (SUS)			ESMSCINNERS	100 pcs.			x			x					
			Normal (steel)			ESMSCINNER	100 pcs.							x		x	x	
E	Outer cap for SL	2 pcs.	Sealed outer cap			Y6ZZ98012	200 pcs.	x	x	x	x	x	x	x				
			Normal outer cap			Y6ZA98012	200 pcs.								x	x	x	x
D/D/C/B/B	Outer cap for cable hole (down/top/seat tube, seat stay)	2 pcs. (depends on cable routing)	Sealed special outer cap			Y6AM98085	50 pcs.	x										
			Sealed outer cap			Y6ZZ98012	200 pcs.			x	x	x	x	x	x			
			Normal outer cap			Y6ZA98012	200 pcs.								x	x	x	x
BB/BB'	Outer cap for FD	1 pc.	Sealed outer cap			Y6ZZ98012	200 pcs.	x		x	x	x	x	x				
			Aluminum sealed outer cap			Y6YX90011	100 pcs.	x (option)		x (option)	x (option)	x (option)	x (option)	x (option)				
A/A	Outer cap for cable hole (chain/seat stay)	1 pc. (depends on bike)	Sealed special outer cap			Y6AM98085	50 pcs.	x	x	x	x	x						
			Sealed outer cap			Y6ZZ98012	200 pcs.						x	x				
			Normal outer cap			Y6ZA98012	200 pcs.								x	x	x	x
AA	Outer cap for RD	1 pc.	Aluminum sealed outer cap			Y6YX90011	100 pcs.	x (option)	x (option)	x (option)	x (option)	x (option)						
			Sealed outer cap			Y6ZZ98012	200 pcs.	x	x	x	x	x	x	x				
			Normal outer cap			Y6ZA98012	200 pcs.								x	x	x	x
	Inner end cap	2 pcs.	Inner end cap			Y62098035	500 pcs.	x	x	x	x	x	x	x	x	x	x	

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
				Outer	46T	Y0MZ98110
				Inner	40T	Y0MZ40000
				Inner	36T	Y0MZ36000
				Inner	34T	Y0MZ34000
	FC-09	Double	11-speed	Outer	54T	Y0V298090
				Outer	52T	Y0V298080
				Outer	50T	Y0V298070
				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

ULTEGRA

	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-R8100/FC-R8100-P	Double	12-speed	Outer	52T	Y0NG98020
				Outer	50T	Y0NG98010
				Outer	46T	Y0MZ98110
				Inner	36T	Y0NG36000
				Inner	34T	Y0NG34000
	FC-08	Double	11-speed	Outer	52T	Y0V398070
				Outer	50T	Y0V398060
				Outer	46T	Y0V398050
				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

SHIMANO 105

	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-R7100	Double	12-speed	Outer	52T	Y0RS98070
				Outer	50T	Y0RS98010
				Inner	36T	Y0RS9802T
				Inner	34T	Y0RS9801T
	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

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
	FC-4703	Triple		Inner	34T	Y1RC34000
				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		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.
	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/Middle/Inner	Description	Code no.
	FC-RX820-1	Single	12-speed	–	42T	Y0SB98020
				–	40T	Y0SB98010
	FC-RX820-2	Double		Outer	48T	Y0SC98010
				Inner	31T	Y0SC9801T
 FC-RX610-1	FC-RX610-1	Single		–	40T	Y0SR9802T
				–	38T	Y0SR9801T
	FC-RX610-2	Double		Outer	46T	Y0SS98010
				Inner	30T	Y0SS9801T
	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
Inner	30T for 11-speed	Y0K630000				
	FC-RX600-10	Double		10-speed	Outer	46T for 10-speed
			Inner		30T for 10-speed	Y0K630000

Cyclocross

	Model no.	Front chainring type	Speed	Outer/Middle/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.
	NEW FC-M9200/ FC-M9220	Single	12-speed	–	38T (SM-CRM96)	ISMCRM96AA8
				–	36T (SM-CRM96)	ISMCRM96AA6
				–	34T (SM-CRM96)	ISMCRM96AA4
				–	32T (SM-CRM96)	ISMCRM96AA2
				–	30T (SM-CRM96)	ISMCRM96AA0
				–	28T (SM-CRM96)	ISMCRM96AZ8
	FC-M9100-1/ FC-M9120-1/ FC-M9130-1			–	38T (SM-CRM95)	ISMCRM95A8
				–	36T (SM-CRM95)	ISMCRM95A6
				–	34T (SM-CRM95)	ISMCRM95A4
				–	32T (SM-CRM95)	ISMCRM95A2
				–	30T (SM-CRM95)	ISMCRM95A0
					FC-M9100-2	Double
FC-M9120-B2	Outer	38T	Y0G898010			
FC-M9100-2/ FC-M9120-B2	Inner	28T	Y1X228000			

DEORE XT						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	NEW FC-M8200	Single	12-speed	–	36T (SM-CRM86)	ISMCRM86A6
				–	34T (SM-CRM86)	ISMCRM86A4
				–	32T (SM-CRM86)	ISMCRM86A2
				–	30T (SM-CRM86)	ISMCRM86A0
				–	28T (SM-CRM86)	ISMCRM86Z8
	FC-M8100-1/ FC-M8120-1/ FC-M8130-1			–	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	Y0JB26000	
	FC-M8000-2/ FC-M8000-B2	Double	11-speed	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

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		Outer	36T	Y0JB98010
				Inner	26T	Y0JB26000
	FC-M7000-11-2/ 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

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	10-speed	Outer	36T	Y0LE98010	
				Inner	26T	Y1WD26000	
	FC-M6000-2	Double		Outer	38T	Y1WD98030	
				Outer	34T	Y1WD98040	
				Inner	28T	Y1WD28000	
				Inner	24T	Y1WD24000	
	FC-M6000-2/ FC-M6000-B2			Outer	36T	Y1WB98010	
				Inner	26T	Y1WD26000	
	FC-M6000-3	Triple		Outer	40T	Y1WC98020	
				Middle	30T	Y1WC98010	
			Inner	22T	Y1NW22000		

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		–	34T	Y0K434000
				–	32T	Y0L332000
				–	30T	Y0L330000
	FC-MT511-1			–	32T	Y0L332000
				–	30T	Y0L330000
	FC-MT700-2/ FC-MT700-B2	Double	11-speed	Outer	36T	Y1VG98020
				Outer	34T	Y1VG98010
				Inner	26T	Y1RL26000
				Inner	24T	Y1RL24000
	FC-MT600-2/ FC-MT600-B2	Double		Outer	36T	Y1VG98020
				Inner	26T	Y1VG26000
	FC-MT300	Triple	9-speed	Outer	44T	Y0FN98020
				Outer	40T	Y1RT98010
				Outer	44T for chain guard	Y0FN98030
				Middle	32T	Y1LD98080
				Middle	30T	Y1PL98040
				Inner	22T for 44-32-22T	Y1LD22000
	FC-MT500-2/ FC-MT500-B2	Double	10-speed	Outer	36T	Y1WB98010
				Inner	26T	Y1WD26000






















OTHERS














LIFESTYLE Chainrings

SHIMANO CUES

	Model no.	Front chainring type	Speed	Outer/Middle/ Inner	Description	Code no.
 FC-U6000-1	FC-U8000-1	Single	11/10/9-speed	–	40T	Y0R69801T
				–	42T	Y0R69802T
	FC-U8000-2	Double	11-speed	Outer	46T	Y0R998010
				Inner	32T	Y0R99801T
	FC-U6000-1 FC-U6040-1/ FC-U6030-1/ FC-U6000-1	Single	11/10/9-speed	–	30T (P.C.D. 96 mm)	Y0R79801T
				–	32T (P.C.D. 96 mm)	Y0R79802T
				–	40T (P.C.D. 110 mm)	Y0R79803T
				–	42T (P.C.D. 110 mm)	Y0R79804T
	FC-U6000-2/ FC-U6000-2B	Double	11/10/9-speed	Outer	36T (P.C.D. 96 mm)	Y0RB98020
				Inner	22T (P.C.D. 64 mm)	Y0RB9802T
	FC-U6000-2 NEW FC-U6040-2/ FC-U6030-2 NEW FC-U6030-2 NEW FC-U6040-2	Double	10/9-speed	Outer	46T (P.C.D. 110 mm)	Y0RB98010
				Inner	30T (P.C.D. 80 mm)	Y0RB9801T
				Outer	34T	Y0TS9802T
				Inner	32T	Y0TS9801T
				Outer	50T	Y0TT98020
				Inner	46T	Y0TT98010
				Outer	50T	Y0TS98020
Inner				46T	Y0TS98010	
FC-U6010-2	Double	11-speed	Outer	46T	Y0RA98010	
			Inner	32T	Y0RA9801T	

SHIMANO

	Model no.	Front chaining type	Speed	Outer/Middle/Inner	Description
	FC-UT400-1	Single	11/10/9-speed	—	32T

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

Front Chaining						
	Model no.	Front chaining type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-T6010	Triple	10-speed	Outer	48T Black for chain guard	Y1WE98010
				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
45T Black	Y1PB45010				
	FC-S500			39T Silver for W CG	Y1HD39000
				39T Silver	Y1H639000
				39T Black for W CG	Y1HD39010
				39T Black	Y1HD39110
				45T Silver	Y1PB45000
		45T Black	Y1PB45010		

Gravity & BMX Chainrings

SAINT

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

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

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/EN500	CR-EM800	32T	Without		ICREM800A2XL	Y0RU9802T
		CR-ET600	38T	With double		ECRET600A8DG	Y0PX9801T
				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
			34T (55 mm chain line)			ESMCRE70B5A4XL	
		SM-CRE70	38T	With double		ESMCRE70A8DGL	Y0J438000
				Without		ESMCRE70A8XL	
		SM-CRE70-12-B	36T (53 mm chain line)	Without		ESMCRE7012BA6XL	Y0KK36000
			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
			34T (55 mm chain line)			ISMCRE80B55A4XL	
			38T (53 mm chain line)			ISMCRE80BA8X	Y1VY00040
			38T (55 mm chain line)			ISMCRE80B55A8XL	
		SM-CRE80-R	47T	Without		ISMCRE80RB7XL	Y0JZ47000
		SM-CRE80-12-B	34T (53 mm chain line)	Without		ISMCRE8012BA4X	Y0KJ34100
			34T (55 mm chain line)			ISMCRE8012B55A4XL	
			36T (53 mm chain line)			ISMCRE8012BA6X	Y0KJ36100
			36T (55 mm chain line)			ISMCRE8012B55A6XL	
			38T (53 mm chain line)			ISMCRE8012BA8X	Y0KJ38100
	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.	
 SM-BB92-41B	Press-fit type	86.5 mm	SM-BB92-41B		ISMBB9241B	
 SM-BB72-41B			SM-BB72-41B		ISMBB7241B	
 SM-BB71-41B			SM-BB71-41B		ISMBB7141B	
 BB-RS500-PB			BB-RS500-PB		EBBR5500PB	
	Bottom bracket type	Bottom bracket shell width	Bottom bracket axle length	Series description	Model no.	Code no.
 BB-R9100 68 mm (BSA)	Thread type	68 mm (BSA)	—	DURA-ACE	BB-R9100	IBBR9100B
			—	ULTEGRA, SHIMANO 105	SM-BBR60	ISMBBR60B
			—	TIAGRA	BB-RS501	EBBR5501B
		70 mm (Italian)	—	DURA-ACE	BB-R9100	IBBR9100I
			—	ULTEGRA, SHIMANO 105	SM-BBR60	ISMBBR60I
			—	TIAGRA	BB-RS501	EBBR5501I
 BB-7700	OCTALINK	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
 BB-ES300	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.	
 SM-BB94-41A	Press-fit type	89.5/92 mm	SM-BB94-41A		ISMBB9441A	
			BB-MT800-PA		IBBMT800PA	
			BB-MT500-PA		EBBMT500PA	
			SM-BB71-41A		ISMBB7141A	
		104.5/107 mm	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.
 SM-BB93  SM-BB80  SM-BB52	Thread type	68/73 mm		XTR	SM-BB93	ISMBB93B
				DEORE XT, SLX, DEORE LX	BB-MT801	IBBMT801B
				DEORE XT, SLX, DEORE LX	BB-MT801	IBBMT801KB
		68 mm		DXR (Short Inner cover)	BB-MT801	IBBMT801SB
		68/73 mm		SAINT	SM-BB80	ISMBB80B
				SAINT	SM-BB80	ISMBB80D
 BB-ES300  BB-ES51	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
			118 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
 BB-UN300	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



Chromizing Treatment Link Pin



Hollow Pin



For both e-bikes and non-e-bikes
High wear-resistance maintains shifting performance on bikes with or without a drive unit.

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.

CN-M9100/CN-HG901-11/CN-HG701-11/CN-HG601-11/
CN-E8000-11/CN-E6090-10/CN-6701/CN-4601/CN-HG95/
CN-HG54

Forward (outer side)



Reverse (inner side)



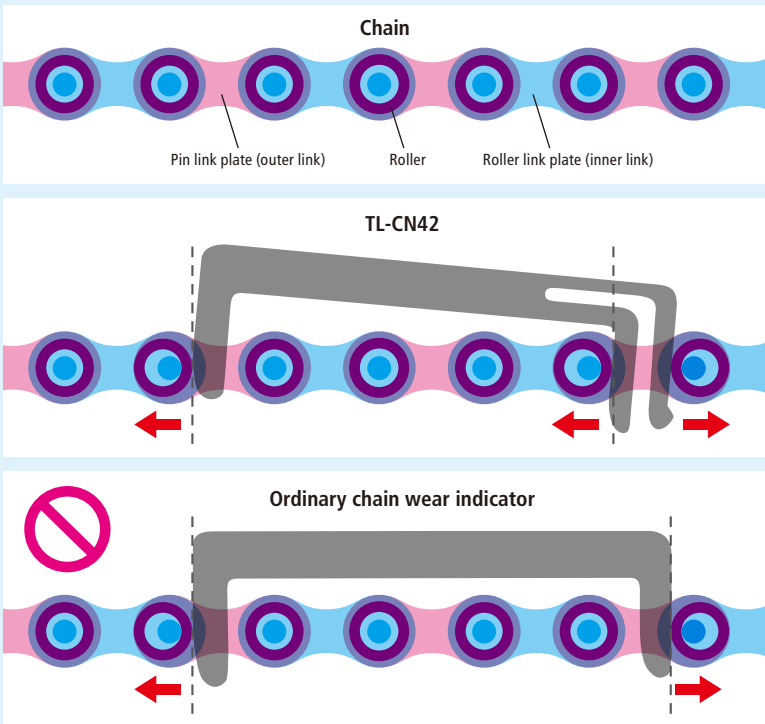
Chain cutter for 12-speed chain

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.



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.

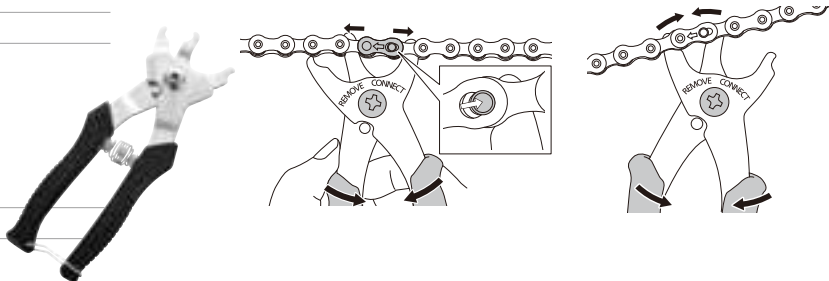


Enables precise and practical measurement
Pushes the rollers to one side in order to duplicate the position of rollers on gears during the actual drive of chain.

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-E8000-11			SIL-TEC	Chromizing	X	–	QUICK-LINK (SM-CN900-11)	257 g	ICNE800011116Q ICNE800011126Q ICNE800011138Q
		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	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
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	ICN6600116I
HG-X Directional		CN-HG95			SIL-TEC	SIL-TEC	X	–	Two Lines 	268 g	ICNHG95116I
		CN-HG54			Gray	Brown	X	–	Two Lines 	273 g	ICNHG54116I

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-HG93			Zinc-Alloy Plated	Gray	X	–	Silver color 	299 g	ICNHG93116I
		CN-E6070-9			Gray	Gray	X	–	Silver color 	276 g	ICNE60709118I ICNE60709126I ICNE60709138I
		CN-HG53			Gray	Brown	X	–	Silver color 	299 g	ECNHG53C116I

8/7/6-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/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	E-Bike	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	ECNNX10C114I

QUICK-LINK					
	Model no.	Compatibility	Note	Unit	Code no.
	SM-CN910-12	For 12-speed chain	- Wears and functions like other links on the chain - SIL-TEC surface treatment - Single use	2 pairs	ISMCM91012A
				50 pairs (workshop jar)	ISMCM91012BS
	SM-CN900-11	For 11-speed chain, CN-LG500	- Wears and functions like other links on the chain - SIL-TEC surface treatment - Single use	2 pairs	ISMCM90011A
				50 pairs (workshop jar)	ISMCM90011BS
	SM-UG51	For 8/7/6-speed chain	- Wears and functions like other links on the chain - Single use	2 pairs	ESMUG51A ESMUG51TA
				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.

CASSETTES

Titanium sprockets for weight optimization

DURA-ACE and XTR cassettes have 5 titanium gears to reduce weight and increase rigidity.



DURA-ACE
CS-R9200



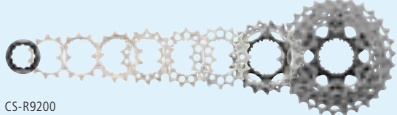
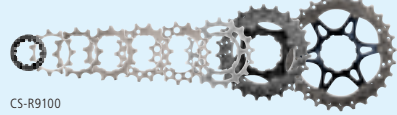
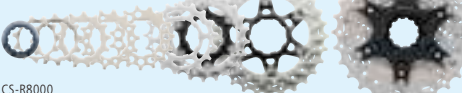
XTR
CS-M9100-12

Weight-reducing spiders

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

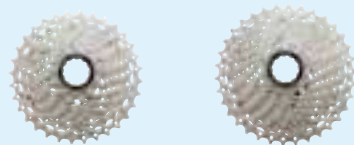
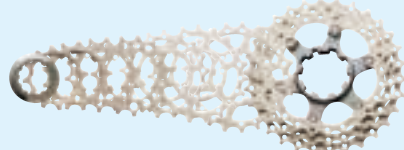
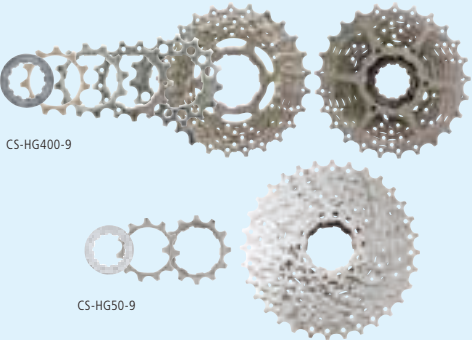


Cassettes road

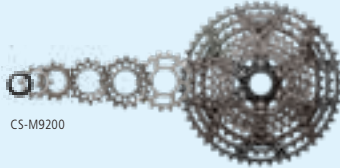
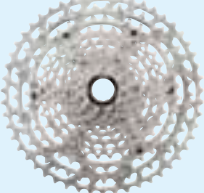
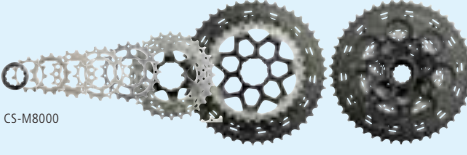
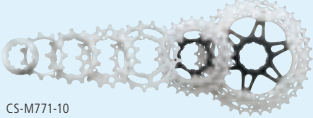
Cassettes road							
1 unit (set)							
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
 CS-R9200	CS-R9200-12	DURA-ACE	11-12-13-14-15-16-17-19-21-24-27-30T	HYPERGLIDE+	HG spline L2	223 g	ICSR920012130
			11-12-13-14-15-17-19-21-24-27-30-34T			253 g	ICSR920012134
	CS-R8101-12	ULTEGRA	11-12-13-14-15-16-17-19-21-24-27-30T	HYPERGLIDE+	HG spline L2	291 g	ICSR810112130
			11-12-13-14-15-17-19-21-24-27-30-34T			345 g	ICSR810112134
	CS-R7101-12	SHIMANO 105	11-12-13-14-15-17-19-21-24-27-30-34T	HG	HG spline L2	361 g	ICSR710112134
	CS-HG710-12	SHIMANO	11-12-13-14-15-17-19-21-24-28-32-36T	HG	HG spline L2	391 g	ICSHG71012136
 CS-R9100	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	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-EV	HG spline M	335 g	ICSHG800111134

— Titanium gear

Cassettes road

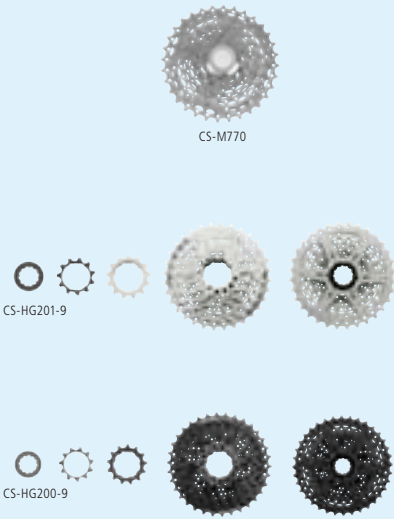
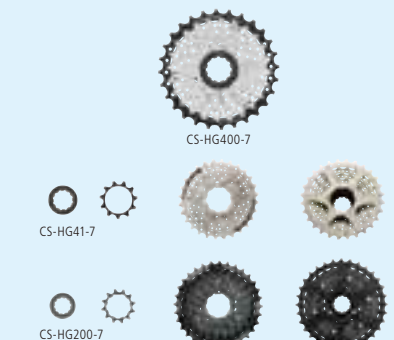
1 unit (set)								
		Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
 CS-R7000 CS-HG700-11	11-speed	CS-R7000	SHIMANO 105	11-12-13-14-15-17-19-21-23-25-28T	HG-EV	HG spline L	284 g	ICSR700011128
				11-12-13-14-15-17-19-21-24-27-30T			304 g	ICSR700011130
				11-12-13-14-16-18-20-22-25-28-32T			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		
	10-speed	CS-6700	ULTEGRA	11-12-13-14-15-17-19-21-23-25T	HG	HG spline M	242 g (11-28T)	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
			CS-HG500-10	TIAGRA	11-12-13-14-15-17-19-21-23-25T	HG	HG spline M	—
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							
 CS-HG400-9 CS-HG50-9	9-speed	CS-HG400-9	SORA	11-12-13-15-17-19-21-23-25T	HG	HG spline M	—	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
	8-speed	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

Cassettes MTB

Cassettes MTB								
1 unit (set)								
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.	
 CS-M9200  CS-M8100  CS-M7100  CS-M6100	NEW CS-M9200-12	XTR	9-11-13-15-17-19-21-24-28-33-39-45T	HYPERGLIDE+	MICRO SPLINE	327 g	ICSM9200945	
			10-12-14-16-18-21-24-28-33-39-45-51T			369 g	ICSM9200051	
		CS-M9101-12	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	
	NEW CS-M8200-12	DEORE XT	9-11-13-15-17-19-21-24-28-33-39-45T	HYPERGLIDE+	MICRO SPLINE	426 g	ICSM8200945	
			10-12-14-16-18-21-24-28-33-39-45-51T			463 g	ICSM8200051	
		CS-M8100-12	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-M8000  CS-M5100	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-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	
 CS-M771-10  CS-M4100-10  CS-HG50-10	CS-M771-10	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-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

— Titanium gear — Aluminum gear

Cassettes MTB

1 unit (set)							
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
	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
			12-14-16-18-21-24-28-32-36T			—	ICSHG4009236
	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
	CS-HG200-9		11-13-15-17-19-21-24-28-32T			—	ECSHG2009132
	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-HG400-8	ACERA	11-13-15-18-22-27-33-40T	HG	HG spline M	—	ECSHG4008140
			11-13-15-18-22-27-35-45T			—	ECSHG4008145
	CS-HG41-8		11-13-15-17-20-23-26-30T	HG	HG spline M	—	ECSHG418130
			11-13-15-18-21-24-28-32T			—	ECSHG418132
	CS-HG31-8	ALTUS	11-13-15-17-20-23-26-34T	HG	HG spline M	—	ECSHG418134
			11-13-15-17-20-23-26-30T			—	ECSHG318130
	11-13-15-18-21-24-28-32T		—			ECSHG318132	
	CS-HG200-8	SHIMANO	11-13-15-17-20-23-26-34T	HG	HG spline M	—	ECSHG318134
12-14-16-18-21-24-28-32T			—			ECSHG2008232T	
NEW CS-HG300-8	SHIMANO ESSA		11-13-15-18-22-27-35-45T			HG	HG spline M
	NEW CS-HG400-7	ALTUS	11-13-15-18-21-24-28T	HG	HG spline M	—	ECSHG4007128
	CS-HG41-7	SHIMANO	11-13-15-18-21-24-28T	HG	HG spline S	—	ECSHG417128
	NEW CS-HG210-7		12-14-16-18-21-24-28T	HG	HG spline M	—	ECSHG2107228
	12-14-16-18-21-26-32T		—			ECSHG2107232	
	CS-HG200-7	12-14-16-18-21-24-28T	HG	HG spline S	—	ECSHG2007228T	
		12-14-16-18-21-26-32T			—	ECSHG2007232T	

OTHERS

Multiple freewheel

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

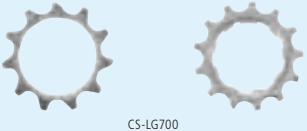
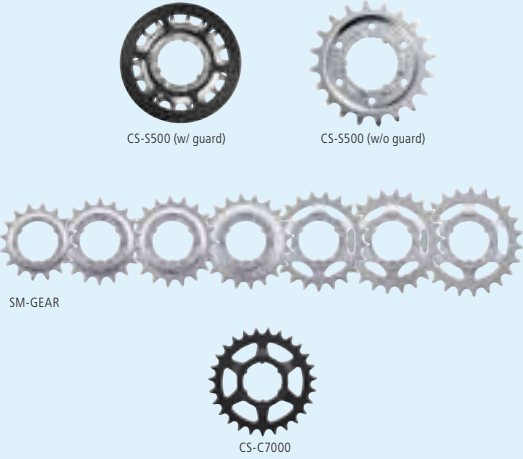
Single freewheel

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

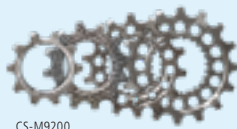
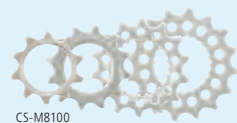
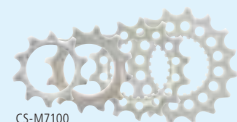
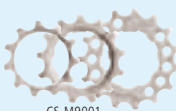
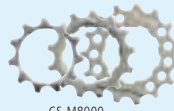
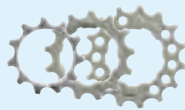
Top four gear-sprockets for 12-speed MTB cassettes

- Compatible with all SHIMANO 12-speed MTB cassettes.
- To keep optimum shifting performance specially for e-bike use.

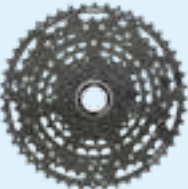
Other sprockets and cogs

1 unit (set)						
	Model no.	Series	Teeth	Code no.	Remark	
	CUES top 2 gears	CS-LG700	11T	Y0RF9801T		
			13T	Y0RF9802T		
			11T & 13T unit	Y0RF98020		
		CS-LG400/300	11T	Y0RG9801T	Used for CS-LG400	
			13T	Y0RG9802T	Used for CS-LG400	
	Internal geared hub cog	CS-S500	18T	ICSS50018		
			18T (w/o guard)	ICSS50018X		
			20T	ICSS50020		
			20T (w/o guard)	ICSS50020X		
		SM-GEAR	16T	Y32203220		
			18T	Y32203420		
			19T	Y32203520		
			20T	Y32203620		
			21T	Y33060000		
			22T	Y33060100		
			23T	Y33060200		
			24T	Y0FM24000		
		CS-C7000	27T	Y0FM01000		
			30T	Y0FM30000		
		Track cog	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		

Sprockets MTB teeth (top gears)

					Teeth (4 gears from top)			
	Speed	Model no.	Series	Teeth	9T	11T	13T	15T
 CS-M9200  CS-M8100  CS-M7100	12-speed	NEW CS-M9200-12 CS-M8200-12	XTR, DEORE XT	9-11-13-15-17-19-21-24-28-33-39-45T	Y0T498010	Y0T49801T	Y0T49802T	Y0T49803T
				10-12-14-16-18-21-24-28-33-39-45-51T	10T	12T	14T	16T
			Y0T49804T		Y0T49805T	Y0T49806T (CS-M9200)	Y0T49807T (CS-M9200)	
					Y0T59803T (CS-M8200)	Y0T59804T (CS-M8200)		
		CS-M9101-12	XTR			Y1X498030	Y1X414000	Y1X416000
		CS-M8100-12	DEORE XT	10-12-14-16-18-21-24-28-32-36-40-45T 10-12-14-16-18-21-24-28-33-39-45-51T		Y1X498020	Y0GX14000	Y0GX16000
	CS-M7100-12	SLX						
CS-M6100-12	DEORE	10-12-14-16-18-21-24-28-33-39-45-51T						
					Teeth (3 gears from top)			
	Speed	Model no.	Series	Teeth	11T	13T	15T	
 CS-M9001  CS-M8000  CS-M7000	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 11-13-15-17-19-21-24-28-32-37-46T	Y1RK11000	Y1RK13000	Y1RK15000	
		CS-M7000	SLX					
		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				

LIFESTYLE Cassettes

Cassettes SHIMANO CUES							
1 unit (set)							
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
 CS-LG700-11	11-speed	CS-LG700-11	11-13-15-17-20-23-26-30-36-43-50T	LINKGLIDE	HG spline M*	609	ICSLG70011150
		CS-LG700-11D	11-13-15-17-20-23-26-30-34-39-45T			–	ICSLG70011145
		CS-LG400-11	11-13-15-17-20-23-26-30-36-43-50T			–	ECSLG40011150
		CS-LG400-11D	11-13-15-17-20-23-26-30-34-39-45T			–	ECSLG40011145
 CS-LG400-10	10-speed	CS-LG400-10	11-13-15-17-20-23-28-34-41-48T	LINKGLIDE	HG spline M*	–	ECSLG40010148
		CS-LG400-10	11-13-15-17-20-23-26-30-36-43T			–	ECSLG40010143
		CS-LG400-10D	11-13-15-17-20-23-26-30-34-39T			–	ECSLG40010139
		CS-LG300-10	11-13-15-17-20-23-28-34-41-48T			–	ECSLG30010148
		CS-LG300-10D	11-13-15-17-20-23-26-30-34-39T			–	ECSLG30010139
		SHIMANO CUES					
 CS-LG400-9	9-speed	CS-LG400-9	11-13-15-17-20-23-28-36-46T	LINKGLIDE	HG spline M*	–	ECSLG4009146
		CS-LG400-9	11-13-15-17-20-23-28-34-41T			–	ECSLG4009141
		CS-LG400-9D	11-13-15-17-20-23-26-30-36T			–	ECSLG4009136
		CS-LG300-9	11-13-15-17-20-23-28-36-46T			–	ECSLG3009146
		CS-LG300-9	11-13-15-17-20-23-28-34-41T			–	ECSLG3009141
		CS-LG300-9D	11-13-15-17-20-23-26-30-36T			–	ECSLG3009136
		SHIMANO CUES					

*Follow compatibility chart

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

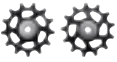
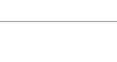


ROAD



MTB

Pulley set

1 unit (set) • A set of 1 tension pulley & guide pulley							
	Model	Performance indicator	Product level				Code no.
			Series	Model no.			
 RD-R9250	Pulley set		DURA-ACE	RD-R9250	X	–	Y3GK98010
				RD-R9100/R9150	X	–	Y5ZR98010
				RD-9000/9070/7970	X	–	Y5Y898060
				RD-7900	X	–	Y5X098140
 RD-R8150	Pulley set		ULTEGRA	RD-R8150	X	–	Y3J198010
			ULTEGRA, GRX, DEORE XT	RD-R8000/R8050/RX800/RX805/RX812/M8000/M8050/RX817	X	–	Y3E998010
			ULTEGRA	RD-6800/6870	X	–	Y5YC98140
			SHIMANO 105	RD-R7150	–	–	Y3HY98010
				RD-R7100	–	X (Guide pulley only)	Y3JU98030
				RD-R7000/5800-GS/M7000-11/M6000-GS/U5000	–	–	Y5YE98090
 RD-RX825/RX820	Pulley set		GRX	RD-RX825/RX820	X	–	Y3JS98010
				RD-RX815/RX810	X	–	Y3GE98010
 RD-M8130-SGS	Pulley set		LG	RD-M8130-SGS	X	–	Y3JS98010
 RD-6770/6700-A/6700/6600/M772/M771/M770/M810-A/M810/T780	Pulley set		ULTEGRA, DEORE XT, SAINT	RD-6770/6700-A/6700/6600/M772/M771/M770/M810-A/M810/T780	–	X (Tension pulley only)	Y5X998150
				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-5500	–	–	Y5XH98120
 RD-M9250	Pulley set		XTR	NEW RD-M9250-GS/M9250-SGS/M9260-12	X	–	Y3K798120
				NEW RD-M9260-11L	X	–	Y3K998020
 RD-M9100	Pulley set		XTR	RD-M9100/M9120	X	–	Y3FA98090
				RD-M9000/M9050	X	–	Y5PV98160
 RD-M8250	Pulley set		DEORE XT, GRX	NEW RD-M8250-GS/M8250-SGS/M8260-12/RX827	X	–	Y3KA98030
				NEW RD-M8260-11L	X	–	Y3KC98020
 RD-M8100	Pulley set		DEORE XT	RD-M8100-SGS/M8120-SGS	X	–	Y3FW98010
				RD-M786/M781/M780/M773/T8000	X	–	Y5XF98130
 RD-M7100	Pulley set		SLX, DEORE	RD-M7100-SGS/M7120-SGS/M6100	–	–	Y3FY98010
			DEORE	RD-M5100	–	–	Y3HL98010
 RD-M5120	Pulley set		SHIMANO CUES	RD-M5120/M4120	–	–	Y3HM98010
				RD-U8050-11/U8050-10	–	–	Y3JB98010
 RD-U8000	Pulley set		SHIMANO CUES	RD-U8000	X	–	Y3JD98080
				RD-U8020/U6020-11/U6020-10	–	X (Guide pulley only)	Y3JE98010
 RD-U6070	Pulley set		SHIMANO CUES	RD-U6070/U6050	–	–	Y3JB98010
				RD-U6000/U4000	–	–	Y3JF98010
 RD-U4020	Pulley set		SHIMANO CUES	RD-U4020/U3020	–	–	Y3JK98010
				RD-U2000	–	–	Y3JK98010

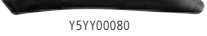
If you would like to have the same pulleys as originally assembled to RD, please refer to EV on our website (<https://si.shimano.com>).

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-RX820/R8000/R7000/5801/RX810/RX400	3	Y2BA12000
	ULTEGRA	FD-6800	3	Y5P116000
	SHIMANO 105	FD-5800		
	TIAGRA	FD-4700		
	SORA CLARIS	FD-R3000/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	
					168 mm	Y0M598020	
		WH-R9100 Series	Front	100 mm	133 mm	Y0B198010	Series color
			Rear	130 mm	163 mm	Y07E98010	
					168 mm	Y07E98020	
	WH-9000 Series	Front	100 mm	133 mm	163 mm	Y28E98010	Series color
		Rear	130 mm	163 mm	168 mm	Y3DZ98010	
					168 mm	Y3DZ98020	
	ULTEGRA	WH-6800	Front	100 mm	133 mm	Y49298010	Series color
			Rear	130 mm	163 mm	Y49398010	
	RS	WH-RS700	Front	100 mm	133 mm	Y0D198010	-
			Rear	130 mm	163 mm	Y0D298010	
					168 mm	Y0D298020	
		WH-RS500	Front	100 mm	133 mm	Y0DZ98010	-
			Rear	130 mm	163 mm	Y0E898010	
					168 mm	Y0E898020	
		WH-RS330	Front	100 mm	133 mm	Y02U98010	-
			Rear	130 mm	163 mm	Y31P98010	
					168 mm	Y02V98010	
		WH-RS300	Front	100 mm	133 mm	Y0F798010	-
			Rear	130 mm	163 mm	Y0F898010	
					168 mm	Y0F898020	
		WH-RS100	Front	100 mm	133 mm	Y0F098010	-
			Rear	130 mm	163 mm	Y0F198010	
					168 mm	Y0F198020	
		WH-RS81-C50	Front	100 mm	133 mm	Y49298010	-
			Rear	130 mm	163 mm	Y49398010	
		WH-RS610	Front	100 mm	133 mm	Y29B98010	-
			Rear	130 mm	163 mm	Y31F98010	
					168 mm	Y31F98020	
		WH-RS010	Front	100 mm	133 mm	Y4SK98100	-
			Rear	130 mm	163 mm	Y4SK98110	
					168 mm	Y4SK98120	
	RX	WH-RX31	Rear	135 mm	168 mm	Y3TV98020	-
					173 mm	Y3TV98040	
		WH-RX010	Front	100 mm	133 mm	Y02U98010	-
			Rear	135 mm	168 mm	Y02V98010	
					173 mm	Y02V98020	
		WH-RX05	Front	100 mm	133 mm	Y4SK98100	-
			Rear	135 mm	168 mm	Y4SK98120	
					173 mm	Y4FL98370	
	SHIMANO	WH-R501/R501-A	Front	100 mm	129 mm	Y4SH98010	Black
					133 mm	Y4SK98100	Silver
					163 mm	Y4SK98110	Black
					168 mm	Y4SK98120	
			Rear	130 mm	163 mm	Y4BG98220	Silver
					168 mm	Y4BG98230	
		WH-R501-30	Front	100 mm	133 mm	Y4SK98100	Black
			Rear	130 mm	163 mm	Y4SK98110	
					168 mm	Y4SK98120	
		WH-R500	Front	100 mm	133 mm	Y4BG98210	Black
			Rear	130 mm	163 mm	Y4BG98220	
					168 mm	Y4BG98230	

E-THRU AXLE

	MTB/Road	Model no.	Axle type	Axle length	Thread pitch		Code no.
AX-MT700 AX-MT500 SM-AX76 SM-AX56 SM-AX76-B SM-AX56-B	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
SM-AX720-100x12 SM-AX720-142x12	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-RS01(-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
	3/16"	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-RS01(-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	—	HB-6700/HB-R7000/HB-5800/HB-5700/HB-4600/HB-3500/HB-2400/HB-RS505/HB-RS400/HB-RS300/HB-M7000/HB-M6000/HB-M675/HB-M665/HB-M629/HB-M615/HB-M4050/HB-M590-595/HB-M430-435/HB-T4000/HB-T670-675/HB-T660-665/HB-T610	
	5/32"	38	Y28F98020	WH-RX570-R	FH-M9000/FH-M9010	HB-M820	—
		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/WH-RX870-R	FH-RS470/FH-RS770/FH-R7070/FH-MT400	HB-M978/HB-M788	—
	1/4"	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/FH-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	Y0ML98040	WH-R9270, WH-R9200	—
	ROAD 12/11-speed	HG spline L	Steel	SHIMANO	NEW Y3KJ98030	—	FH-TC500-HL
                  	ROAD 11-speed	HG spline L	Titanium	DURA-ACE	Y0AZ98050	WH-R9170	—
				ULTEGRA, GRX, SHIMANO	Y3EX98030	WH-R8170, WH-RS770, WH-RS700, WH-RX570	FH-RS770
				ULTEGRA, SHIMANO	Y49398060	WH-6800, WH-RS500, WH-RS81, WH-RX830	FH-6800, FH-CX75
				SHIMANO	Y31F98070	WH-RS300, WH-RS330, WH-RS610	FH-R7000, FH-5800, FH-UR600, FH-RS505, FH-RS400
					Y48U98040	WH-RS100, WH-RS010, WH-RX010	—
	10/9/8-speed, MTB 11-speed	HG spline L	Steel	SHIMANO	Y0FH98010	WH-RS370	—
					Y3G898030	WH-RS171	FH-RS470
					NEW Y3SW98050	—	FH-M5100
					NEW Y3K398020	—	FH-TC600-HM-B
					NEW Y3JZ98010	—	FH-TC500-HM, FH-TC500-HM-B
					NEW Y3K198030	—	FH-QB400-HM
					NEW Y3KM98020	—	FH-QC300-HM
					Y4SK98070	WH-R501	—
					Y0ES98030	WH-MT600, WH-MT500	—
					NEW Y3KG98060	WH-M9220, WH-M9200	FH-M9210-B
	MTB 12-speed	MICRO SPLINE	Aluminum	XTR	NEW Y3K398020	WH-M8200	FH-M8210-B
				DEORE XT	Y0HE98010	WH-M8100, WH-M8120	—
				SHIMANO	Y0KD98040*	WH-MT620, WH-MT501	FH-MT510, FH-MT500
					Y3HU98020*	WH-MT601	FH-MT410, FH-MT401
					NEW Y3K298010	—	FH-TC600-MS-B
					NEW Y3JV98030	—	FH-TC500-MS, FH-TC500-MS-B

*The part number is freewheel body unit only

Freewheel body and cassette spline compatibility									
FREEHUB/Wheel			Compatible cassette type						
Free unit type	Model	Photo	MTB		ROAD			SHIMANO CUES	All
			12-speed CS-M9200-12 CS-M8200-12 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-R8101-12 CS-R7101-12 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 CS-LG300-10	10/9/8-speed
MICRO SPLINE	FH-M9210-B, FH-M8210-B, FH-M9111(-B, -BS), FH-M8110(-B, -BS), FH-M8130-B, FH-M7110(-B), FH-M7130-B, FH-MT410(-B), FH-MT401(-B), FH-MT500(-B), FH-MT510(-B), WH-M9200, WH-M9220, WH-M8200, WH-M8100, WH-M8120, WH-MT620, WH-MT601, WH-MT501, WH-RX880, WH-RX180	     	X	-	-	-	-	-	-
HG spline L2 (ROAD 12-speed dedicated)	WH-R9200, WH-R9270, WH-RX880	 Y0ML98040	-	-	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-R8170, WH-RS770, WH-RS700, WH-RS500, WH-RS370, WH-RS330, WH-RS300, WH-RS171, WH-RS100, WH-RS010, WH-RX010, WH-RX870, WH-RX570, WH-RX180	       	-	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 cassettes 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 cassettes below. CS-7900/CS-7800/CS-6700/CS-6600/CS-5700/CS-5600 *4 See technical information (C-649) for LINKGLIDE cassettes compatibility details by model.
<https://productinfo.shimano.com/compatibility/C-649>



INTERNAL ASSEMBLY OF INTERNAL GEARED HUB

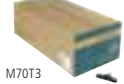
Internal assembly of internal geared hub

	Speed	Series	Model no.	Axle length (mm)				
				182	184	187	193	Others
 SG-C7000-5D	3-speed	3CC	SG-3C-41	—	—	—	—	Y35U98010 (168) Y33R98020 (175) Y35U98020 (178)
			SG-3C41-DX	—	—	—	—	Y35U98010 (168) Y33R98020 (175)
 SG-C3001-7D	5-speed	5C	SG-C7000-5C	—	—	Y3FH98010	—	—
			SG-C7050-5C	—	—	Y3FE98010	—	—
		5CD	SG-C7002-5CD	—	—	Y3J098010	—	—
		5D	SG-C7000-5D	—	—	Y3FJ98010	—	—
			SG-C7050-5D	—	—	Y3FF98010	—	—
		5R/5V	SG-C7000-5R SG-C7000-5V	—	—	Y3FG98010	—	—
			SG-C7050-5R SG-C7050-5V	—	—	Y3FD98010	—	—
		7-speed	SG-C3001-7C	—	—	—	—	Y3EV98150 (176)
			SG-C3001-7C-DX	—	Y3EV98020	—	—	Y3EV98010 (176)
			7D	SG-C3001-7D	—	—	Y3EW98010	—
 SG-C6001-8D	8-speed	7C	SG-C3001-7R	Y3ET98010	—	—	—	Y3ET98020 (201)
			8C	SG-C6001-8C	—	Y3EJ98010	—	—
			8CD	SG-C6001-8CD	—	—	Y3EL98010	—
		8D	SG-C6001-8D	—	—	Y3EK98010	—	—
			SG-C6061-8D	—	—	Y3EE98030	—	—
		8R/8V	SG-C6001-8R SG-C6001-8V	—	Y3EH98010	—	—	Y3EH98020 (203)
			SG-C6011-8R SG-C6011-8V	—	Y3EG98010	—	—	—
		11-speed	SG-S7001-11	—	—	Y3EN98010	—	—
			SG-S7051-11	—	—	Y3EM98010	—	—
	8-speed	ALFINE-8	SG-S7001-8	—	—	Y3EB98010	—	—
			SG-S7051-8	—	—	Y3EA98010	—	—

WORKSHOP

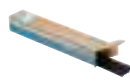
WORKSHOP

Brake shoes

	Usage	Model no.		Package	Qty/length	Code no.
 R55C4	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
 M70R2	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
 M70T3	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

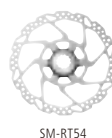
	Category	Model no.			Package	Qty/length	Code no.
 G05A-RX  J04C-MF	DISC BRAKE PADS SET	B055-RX			Cardboard box	25 pairs	EBPB05SRXBS
					Cardboard box	50 pairs	EBPB05SRXCS
		G05A-RX			Cardboard box	25 pairs	EBPG05ARXBS
					Cardboard box	50 pairs	EBPG05ARXCS
		G055-RX			Cardboard box	25 pairs	EBPG05SRXBS
		J04C-MF			Cardboard box	25 pairs	IBPJ04CMFBS
		J05A-RF			Cardboard box	25 pairs	EBPJ05ARFBS
		L05A-RF			Cardboard box	25 pairs	EBPL05ARFBS
		D035-RX			Cardboard box	25 pairs	EBPD03SRXBS
 SM-BH90-SB  SM-BH90-SS	DISC BRAKE HOSE	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	ESMSCINNERS
		Steel shifting inner cable	Cardboard box	100 pcs./2,100 mm	ESMSCINNER
 Black	SHIFT OUTER CASING	OT-SP41 Black	Cardboard box	50 m	IOT41SP50ML
		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
 Black		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	40 m	Y8YZA0489
		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	500 pcs.	Y62098035
		Brake inner cable end cap (ø 1.6 mm)	Workshop jar	500 pcs.	Y62098045

Cassettes						
	Model no.	Speed	Gear combination	Package	Qty/length	Code no.
 CS-HG500-10	CS-HG500-10	10-speed	11-34T	Cardboard box	10 pcs.	ICSHG50010134S
	CS-HG50-10	10-speed	11-36T	Cardboard box	10 pcs.	ICSHG5010136S
	CS-HG400-9	9-speed	11-32T	Cardboard box	10 pcs.	ICSHG4009132S
			11-34T	Cardboard box	10 pcs.	ICSHG4009134S
	CS-HG50-9	9-speed	12-25T	Cardboard box	10 pcs.	ICSHG509225S
	CS-HG51-8	8-speed	11-30T	Cardboard box	10 pcs.	ECSHG518130S
	CS-HG50-8	8-speed	13-26T	Cardboard box	10 pcs.	ICSHG508326S
	CS-HG41-7	7-speed	11-28T	Cardboard box	10 pcs.	ECSHG417128S

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.	ESMRT54XS
	SM-RT64-M	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT64MXSC
	SM-RT64-S	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT64SXSC
	SM-RT66-M	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT66MSP
	SM-RT66-S	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT66SSP

Chains						
	Category	Model no.	Speed	Package	Qty/length	Code no.
 CN-HG71		CN-M7100 w/ QUICK-LINK	12-speed	Cardboard box	20 pcs./126Link	ICNM7100126QS820
					20 pcs./116Link	ICNM7100116QS820
		CN-LG500 w/ QUICK-LINK	11-speed	Cardboard box	20 pcs./126Link	ICNLG500126QS820
					20 pcs./116Link	ICNLG500116QS820
		CN-HG601-11 w/ QUICK-LINK	11-speed	Cardboard box	20 pcs./126Link	ICNHG60111126QS820
					20 pcs./116Link	ICNHG60111116QS
		CN-HG601-11 w/ ampoule type connect pin	11-speed	Cardboard box	20 pcs./116Link	ICNHG60111116S
		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	Chain pins	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

SHIMANO chain tool driving pin
Special driving pin retains the excess ring of the removed rivet pin

12 mm thru axle

Guide Pin
Ideal sized guide pin stabilizes the tool

Telescopic handle
Telescopic handle keeps the tool compact in storage

1/2" square drive (Male)
To be used with 1/2" square (female) drive

1/2" square drive (Female)
To be used with 1/2" square (male) drive impact wrench or SHIMANO TL-MH10

24 mm wrench drive

Molybdenum treatment
Molybdenum treatment on axle threads for smoother rotation

20 mm thru axle

Liner needle
Liner needle for reshaping deformed inner liner of outer casing

4 mm hex key drive

8 mm hex key drive

32 mm wrench drive

36 mm wrench drive

3 position rotatable head
Adjustable head makes operation easier

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

15 mm cone wrench

Ni Cr
Nickel & Chromium plating
Chrome plating for durability and corrosion resistance

8 mm thru axle

Square Bottom bracket

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

Cassettes/Multiple freewheel/Disc brake rotor

TL-LR10
Lock ring tool

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

TL-LR15
Lock ring tool (with guide pin)

Usage	For installation and removal of lock ring for rotors and cassettes
USP	- 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

With TL-SR23

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-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

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 TL-LR15 (Y12009230) + adjustable wrench	For internally serrated type TL-LR11 (Y8PW04100) + adjustable wrench	For externally serrated type 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.

Cassettes/Multiple freewheel/Disc brake rotor

NEW TL-LR021
Lock ring tool for 9T

Usage	For installation and removal of 9T top cassettes
USP	Hardened steel for rigidity and durability
Remark	Cannot be used for multiple freewheels due to the difference in dimensions
Code no.	Y0T498030

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	- 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 cassettes
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	- 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	- 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	- 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• 32 mm wrench for head set adjustment • 15 mm pedal wrench • Installation and removal of BB-7700/M950 lock nut
USP	• Set of 2 multi-functional spanners • Chrome plated heat treated carbon steel for rigidity and durability
Remark	• 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	- For removal of cotterless crank arm - Installation and removal of front chain wheel for square bottom bracket with 14 mm fixing bolt
USP	- 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	- For removal of cotterless crank arm - Installation and removal of front chain wheel for square bottom bracket with 14 mm fixing bolt
USP	- 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	- 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	- 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	- 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	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	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	- 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	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	- 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	- 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	• 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
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TL-CN35
9-12-speed compatible
professional chain tool



Usage	For cutting and connecting SHIMANO 9-12-speed chain
USP	• 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
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TL-CN42
Chain wear indicator

Usage	Check the wear of chains accurately, easily and quickly
USP	• High-precision laser-cut construction • Unique 3-pin structure allows accurate measurement (see p. 49) • 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	• 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



Rear derailleur

TL-RD200
Easy G-G setting tool

Usage	For G-G distance setting
Compatibility	RD-U8020/U6020-11/U6020-10/U4020/U3020
Code no.	Y07A98020



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	• Cut inner cable and outer casing • Reform the shape of outer casing end • Crimp the inner cable end cap
USP	• 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 snap 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	• Cut hydraulic disc brake hoses • Set connector inserts to hoses
USP	• 2-in-1 operation tool • Cut hoses easily and precisely at 90 degree • Sets connector insert into hose easily and securely • Adjustable hose clasp 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	• Filling, flushing and bleeding of hydraulic disc brakes • Connecting syringe hose and BR bleed nipple
USP	• Limits leaking, dripping or any form of oil spillage • Reliable and clean tube connection • Increased volume and smooth action • Compact and durable design
Code no.	Y13000080



TL-BR002
FUNNEL UNIT FOR ST

Usage	Bleeding of hydraulic disc brakes (M7*0.75)
USP	• Limits any form of oil spillage • Increased volume • Durable material, long life time
Code no.	Y13000090



TL-BR003
FUNNEL UNIT FOR BL

Usage	Bleeding of hydraulic disc brakes (M5*0.8)
USP	• Limits any form of oil spillage • 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	• Precision laser cut profile for a secure fit • Chrome plated cromoly steel for durability and rigidity • Ergonomic handle



TL-FH15
15 mm hex wrench

Usage	For assembly and disassembly of 12 mm thru-axle freewheel body
USP	• Hardened steel for rigidity and durability • High precision
Code no.	Y13098012



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-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-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



NEW TL-HB017
Hub bearing remover

Usage	For installation and removal of hub bearings
USP	Hardened steel for rigidity and durability
Code no.	Y2LF9802T



TL-FH17A
Seal ring installation tool

Usage	Seal ring installation tool for DIRECT ENGAGEMENT/MICRO SPLINE and HG spline L2 freewheel body
USP	Install seal ring without any deformation
Code no.	Y1Y19801T



Pedal

TL-HS40
Cone adjusting wrench 20 mm



Usage	For assembly, disassembly and adjustment of PD-R9100/9000/R8000/6800/R7000/5800/RS500/R550
USP	• 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	• 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



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	• 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-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-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-AF10
Right hand dust cap A installation tool

Usage	For installation of right hand dust cap A
USP	• 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

Right side view



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	• 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 E-BIKE SYSTEMS

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

Usage	Installation and removal tool of lock ring for chainring
USP	• 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	• 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 E-BIKE SYSTEMS

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

Usage	Installation and removal tool of lock ring for chainring
USP	• 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-CA100
Plug tool for CAN cable

Usage	Plug tool for connection and disconnection of CAN cable
Compatibility	DU-EP801/EP600
Code no.	Y7KJ9801T



TL-DUE60
Chain tension measurement tool

Usage	Chain tension measurement tool for SHIMANO E-BIKE SYSTEMS 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



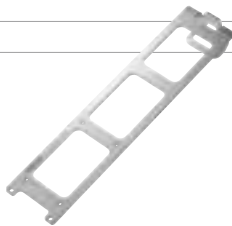
TL-BME02
Battery mount setting tool

Usage	Measurement tool for installation of battery mount
Compatibility	BM-EN600/BM-E8010/BM-E8016
Code no.	YEZY00014



TL-BME03
Battery mount setting tool

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



TL-BME04
Battery mount setting tool

Usage	Measurement tool for installation of battery mount
Compatibility	BM-EN801/BM-EN800/BM-E8030/BM-E8031
Code no.	Y13000050



TL-BME05
Battery mount setting tool

Usage	Measurement tool for installation of battery mount (for 630Wh battery case)
Compatibility	BM-EN801/BM-EN800/BM-E8030/BM-E8031
Code no.	Y13000070



NEW TL-BME06
Battery mount setting tool

Usage	Measurement tool for installation of battery mount
Compatibility	BM-EN810-A
Code no.	Y2NT98010



OTHERS



Di2

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	Compatibility	Description	Code no.
For SHIMANO E-BIKE SYSTEMS/ Di2 settings	EW-SD50	SM-PCE02 Micro USB cable PC link cable for SD50	ISMPC02B
	EW-SD300	SM-PCE02 Micro USB cable PC link cable for SD300	ISMPC02B2
	EW-SD50/ EW-SD300	SM-PCE02 Micro USB cable PC link cable for SD50 PC link cable for SD300	ISMPC02B3



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	• 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 - 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	• 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)
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
① ② ③ 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
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	Chainring bolt T30 wrench with 5 mm hex	Y13098230
TL-FC40	Power meter crank arm tool	YEZY00017
6 Cassettes		
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

LUBRICANTS

SHIMANO original fluids are the source of pure performance.



LUBRICANTS

Grease

Premium Grease	
Function	Superior durability and water resistance
Application	Hubs, headsets, bottom bracket bearings, etc.
Code no.	Y04110000 (50 g jar) Y0411000A (50 g jar) for EU Y04110200 (100 g tube) Y0411020A (100 g tube) for EU Y04110010 (500 g jar) Y0411001A (500 g jar) for EU



FREEHUB Grease	
Function	Hard to solidify under low temperature
Application	Refer to dealer's manuals
Code no.	Y3B980000 (50 g jar) Y3B98000A (50 g jar) for EU



Cable Grease	
Function	Special grease for OT-SP41/BC-9000/BC-R680
Application	Outer casing
Code no.	Y04180000 (50 g jar) Y0418000A (50 g jar) for EU



Seal Grease for FREEHUB	
Function	Special grease for FREEHUB
Application	Refer to dealer's manuals
Code no.	Y38Z98000 Y38Z9800A for EU



Roller Brake Grease	
Function	Suitable for the performance of roller brakes, heat resistance and durability
Application	Roller Brake
Code no.	Y04120400 (100 g tube type) Y0412040A (100 g tube type) for EU



Grease

Internal Hub Grease	
Function	Superior durability
Application	Internal hub
Code no.	Y04130100 (100 g tube type) Y0413010A (100 g tube type) for EU Y04130200 (2.5 kg can) Y0413020A (2.5 kg can) for EU



Grease for SHIMANO SHADOW RD+	
Function	Twice as durable as Internal Hub Grease, which is also for SHIMANO SHADOW RD+ stabilizer
Application	SHIMANO SHADOW RD+ stabilizer
Code no.	Y04121000 Y0412100A for EU



Others

NEW SHIMANO low viscosity oil	
Application	Refer to compatibility (p. 8)
Code no.	ISMLVOIL01 (100 ml) ISMLVOIL01M (100 ml) for EU ISMLVOIL05 (500 ml) ISMLVOIL05M (500 ml) for EU KSMLVOIL10 (1,000 ml) KSMLVOIL10M (1,000 ml) for EU



Hydraulic Mineral Oil	
Application	Refer to compatibility (p. 8)
Code no.	ISMDBOIL010 (100 ml) ISMDBOIL01M (100 ml) for EU ISMDBOIL050 (500 ml) ISMDBOIL05M (500 ml) for EU KSMDBOILO (1,000 ml) KSMDBOILM (1,000 ml) for EU



Internal Hub Maintenance Oil Kit (Dipping vessel and 1,000 ml oil can)	
Function	Special Oil for Internal Hub other than SG-S700/S705
Application	Internal Hub mechanism
Code no.	Y00298010 Y0029801A for EU



Dipping Vessel	
Code no.	Y00201100

1,000 ml oil can	
Code no.	Y00201000 Y0020100A for EU



SG-S700 Oil	
Function	Special oil for SG-S700/S705/S7001-11/S7051-11
Application	SG-S700/S705 internal hub mechanism
Code no.	Y13098481 (50 ml bottle) Y1309848B (50 ml bottle) for EU Y13098480 (1,000 ml can) Y1309848A (1,000 ml can) for EU



OTHERS

OTHERS



CLEATS



ROAD



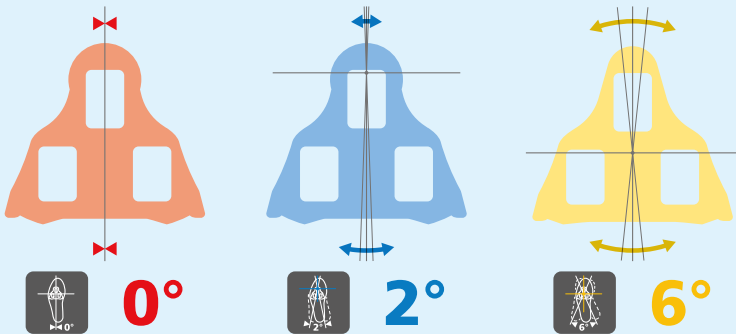
MTB

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. ISMSH10



SM-SH12
• 2 degree front center pivoting type
• Code no. ISMSH12



SM-SH11
• 6 degree float type
• Code no. ISMSH11



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. ESMH45



SM-SH20 Cleat Spacers
• 1 mm spacer 1 pc.
• 2 mm spacer 2 pcs.
• M5 × 10 mm bolt 3 pcs.
• M5 × 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



SHIMANO CLICK'R



NEW
SPD Cleat Pontoon
• Code no. ESMSHRX910MPOL01000



SM-SH51 SPD cleats
• For single direction release and "easy step-in" feature
• Code no. ISMSH51A
• Code no. ISMSH51 (without cleat nut)

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



SM-SH56 SPD cleats
• Multi-directional release except for PD-M858
• Code no. ISMSH56A
• Code no. ISMSH56 (without cleat nut)

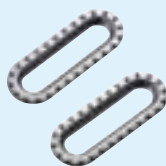
SM-SH41 SPD Cleat Adapter
• SPD cleat adapter for 3-hole SPD-SL outsoles
• For all SPD-SL shoes with 3 holes
• For SPD cleats (SM-SH51/SM-SH56)
• Code no. ESMH41



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.

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



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	ISMSH10
	SPD-SL	SM-SH11	Float	6 degree float type	ISMSH11
	SPD-SL	SM-SH12	Front center pivoting	2 degree front center pivoting type	ISMSH12
	SPD	SM-SH51 (with cleat nut)	Single release	For single direction release and "easy step-in" feature	ISMSH51A
	SPD	SM-SH51 (without cleat nut)	Single release	For single direction release and "easy step-in" feature	ISMSH51
	SPD	SM-SH56 (with cleat nut)	Multi release	Multi-directional release	ISMSH56A
	SPD	SM-SH56 (without cleat nut)	Multi release	Multi-directional release	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
	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® Li2 TYPE A REPAIR KIT 2 DIALS	SH-RC903/RC902/XC902	Blue	ESMSHRC902MBOB0100L
				ESMSHRC902MBOB0100R
			Black	ESMSHRC902MBOL0100L
				ESMSHRC902MBOL0100R
			Red	ESMSHRC902MBOR0100L
				ESMSHRC902MBOR0100R
			White	ESMSHRC902MBOW0100L
				ESMSHRC902MBOW0100R
	BOA® Li2 TYPE F REPAIR KIT 1 DIAL	SH-XC903/RX910/GE900HS	White	ESMSHXC903MBOW0100L
				ESMSHXC903MBOW0100R
		SH-XC903/RX910/TR903/GE900HS	Black	ESMSHXC903MBOL0100L
				ESMSHXC903MBOL0100R
	BOA® Li2 TYPE C REPAIR KIT 1 DIAL	SH-RC902T	White	ESMSHRC902TBOW0100L
				ESMSHRC902TBOW0100R
		SH-RX801R/RX801	Black	ESMSHRC902TBOL0100L
				ESMSHRC902TBOL0100R
	BOA® IP1 REPAIR KIT 2 DIALS	SH-XC901	Blue	ESMSHRC901MBOB0100L
				ESMSHRC901MBOB0100R
			Black	ESMSHRC901MBOL0100L
				ESMSHRC901MBOL0100R
			White	ESMSHRC901MBOW0100L
				ESMSHRC901MBOW0100R
	BOA® L6 TYPE Z REPAIR KIT 1 DIAL	SH-RC703/XC703/EX900	Black	ESMSHRC703MBOL0100L
				ESMSHRC703MBOL0100R
		SH-RC703/XC703	White	ESMSHRC703MBOW0100L
				ESMSHRC703MBOW0100R
	BOA® L6 TYPE C REPAIR KIT 1 DIAL	SH-RC702/XC702/MW701/MW702/GE900/GE900GTX/ GF800/GF800GTX	Black	ESMSHME501MBOL0100L
				ESMSHME501MBOL0100R
	BOA® L6 TYPE E REPAIR KIT 1 DIAL	SH-RC300/RC302/XC300/XC302/ET700/EX700/ET701	Black	ESMSHRC300MBOL0100L
				ESMSHRC300MBOL0100R
			White	ESMSHRC300MBOW0100L
				ESMSHRC300MBOW0100R
	BOA® L6 TYPE K REPAIR KIT 1 DIAL	SH-RC502/XC502/ME502/RX600/EX700GTX	Clear	ESMSHRC500MBOC0100L
				ESMSHRC500MBOC0100R
			Black	ESMSHMT701MBOL0100L
				ESMSHMT701MBOL0100R
	BOA® L6 TYPE K REPAIR KIT 1 DIAL	SH-IC501	Clear	ESMSHIC500WBOC0100L
				ESMSHIC500WBOC0100R
	BOA® L6 TYPE C REPAIR KIT 1 DIAL	NEW SH-RC503/XC503	Black	ESMSHRC503MBOL0100L
				ESMSHRC503MBOL0100R
		NEW SH-RC503	White	ESMSHRC503MBOW0100L
				ESMSHRC503MBOW0100R

Buckle & strap set

	Model no.	Compatibility	Size	Color	Code no.
	BUCKLE & STRAP SET	SH-ME702		Black	ESMSHRP301MBSL010000
	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/MW502/MW501/AM903/MT502/EX500/ET501			ESMSHAM903MSLL01000

Heel pads

	Model no.	Compatibility	Size	Code no.
	REPLACEABLE HEEL PADS	SH-RC901T	36 - 39.5	ESMSHRC900HPS
			40 - 43.5	ESMSHRC900HPM
			44 - 48	ESMSHRC900HPL
	REPLACEABLE HEEL PADS	SH-RC903/RC903PWR/RC902/RC902T/RC903S	36 - 39.5	ESMSHRC902MHPL01395
			40 - 43.5	ESMSHRC902MHPL01435
			44 - 48	ESMSHRC902MHPL01480

Insole					
	Model no.	Compatibility	Last	Size	Code no.
	VOLUME TOUR LAST INSOLE	SH-GE900HS/GE900/GE900GTX/GE700/GE500/AM903/AM503/GF800/GF800GTX/GF600/GF400/GR903/GR501/MX100/ME502/MW501/EX900/EX700/EX700GTX/EX500/EX300/MT502/ET701/ET700/ET501/ET500/ET300/XM900	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
	DUAL DENSITY TRAIL/TOUR INSOLE	SH-GE900HS/GE900/GE900GTX/GE700/GE500/AM903/AM503/GF800/GF800GTX/GF600/GF400/GR903/GR501/MX100/ME502/MW501/EX900/EX700/EX700GTX/EX500/EX300/MT502/ET701/ET700/ET501/ET500/ET300/XM900		36 - 38	ESMSHGE900MINL01380
				38.5 - 40	ESMSHGE900MINL01400
				40.5 - 42	ESMSHGE900MINL01420
				42.5 - 44	ESMSHGE900MINL01440
				44.5 - 46	ESMSHGE900MINL01460
				46.5 - 48	ESMSHGE900MINL01480
	STANDARD CUP INSOLE	SH-RC903/RC903S/RC903PWR/RC902/RC902T/RC901T/RC703/RC702/RC503/RC502/RC302/RC300/RC102/RC100/TR903/TR901/TR501/XC903/XC903S/XC902/XC901/XC703/XC702/XC503/XC502/XC302/XC300/XC102/XC100/RX910/RX801/RX801R/RX600/MW702/MW502/IC501/IC200/IC100/RP101	DYNALAST	36 - 38	ESMSHRC502MINL01380
				38.5 - 40	ESMSHRC502MINL01400
				40.5 - 42	ESMSHRC502MINL01420
				42.5 - 44	ESMSHRC502MINL01440
				44.5 - 46	ESMSHRC502MINL01460
				46.5 - 48	ESMSHRC502MINL01480
	CF INSOLES (RC9)	SH-RC903/RC903S/RC903PWR/RC902/RC902T/RC901T/RC703/RC702/RC503/RC502/RC302/RC300/RC102/RC100/TR903/TR901/TR501/XC903/XC903S/XC902/XC901/XC703/XC702/XC503/XC502/XC302/XC300/XC102/XC100/RX910/RX801/RX801R/RX600/MW702/MW502/IC501/IC200/IC100/RP101	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
	DUAL DENSITY EXTRA-CUSHION INSOLE	SH-ME702		48 - 50	ESMSHRC9INCF500
				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-XC903S/XC903/XC902/XC901/XC703/XC702/XC503/XC502/MW702	Black	ESMSHXC902MSKL01000
	REMOVABLE TOE SPIKES (10 mm height)	SH-XC903S/XC903/XC902/XC901/XC703/XC702/XC503/XC502/MW702	Black	ESHM225SPIKE
	LOW PROFILE RESIN SPIKES	SH-XC903S/XC903/XC902/XC901/XC703/XC702/XC503/XC502/MW702	Gray	ESMSHXC901MSKG01000

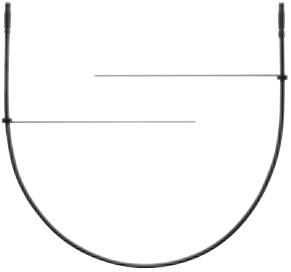
ACCESSORIES FOR ELECTRONIC PRODUCTS

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

Di2
DIGITAL INTEGRATED INTELLIGENCE



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
	EW-SD300	SHIMANO	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
			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
	EW-SD50	SHIMANO	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
			150 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L15
			200 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L20
			250 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L25
			300 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L30
			350 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L35
			400 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L40
			500 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L50
			550 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L55
			600 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L60
			650 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L65
			700 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L70
			750 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L75
			800 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L80
			850 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L85
			900 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L90
			950 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L95
			1,000 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L100
			1,200 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L120
			1,400 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L140
			1,600 mm	1st generation E-TUBE cable for Di2 (for external routing)	IEWSD50L160

Battery/Battery charger				
	Model no.	Series	Description	Code no.
	BT-DN110-A	SHIMANO	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) IBTDN3005 (INDIA spec)
	SM-BCR2		Battery charger for internal battery	ISMBCR2
 SM-BCC1-3 (Type A plug for Japan)	SM-BCC1		Power cable	12 part numbers depending on the plug type
	NEW BT-DN320		On-board battery	IBTDN320A
	NEW EC-DN100		Battery charger for BT-DN320	IECDN100A

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.
	EW-AD305	SHIMANO	• 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	ISMEW90A
			• Junction A (Front) • 5-port	ISMEW90B
	EW-RS910		• Junction A (Built-in type) • 3-port	IEWRS910
	EW-JC130		• Y-split routing • Cable length: 550 mm, 50 mm, 550 mm	IEWJC130MM
			• Y-split routing • Cable length: 350 mm, 50 mm, 450 mm	IEWJC130SM
			• Y-split routing • Cable length: 350 mm, 50 mm, 250 mm	IEWJC130SS
	EW-JC200		• 2-port junction	IEWJC200
	SM-JC41	• Junction B • Internal wire routing	ISMJC41	

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)
	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 EW-SD50	Y6VE16000

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 Micro USB cable PC link cable for SD50	IETUBEKIT3EB (English) IETUBEKIT3GB (German)
	EW-SD50		Electric wire for SD50	
	SM-JC41		Junction for SD50	
	TL-EW02		Plug tool for SD50	
	SM-PCE02 (SD300 type)	For connecting the bicycle (system or components) to a PC via a PC linkage device	PC link device for SD300 Micro USB cable PC link cable 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	
	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 Micro USB cable PC link cable for SD300 PC link cable for SD50	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	

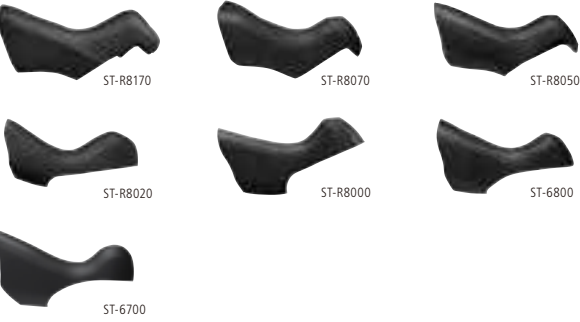
D-FLY unit

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

BRACKET COVERS



Bracket covers

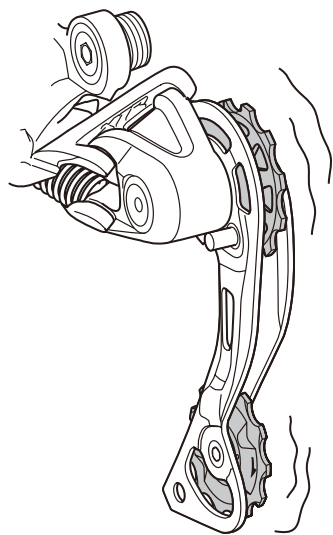
	Model no.	Series	Color	Unit	Code no.
	ST-R9270	DURA-ACE	Black	pair	Y0MX98010
	ST-R9250		Black	pair	Y0N798010
	ST-R9170		Black	pair	Y0CA98010
	ST-R9150		Black	pair	Y0C898010
	ST-R9120		Black	pair	Y0C698010
	ST-R9100		Black	pair	Y0BF98010
	ST-R8170	ULTEGRA	Black	pair	Y0NS98010
	ST-R8070		Black	pair	Y0E698010
	ST-R8050		Black	pair	Y0E298010
	ST-R8020/ST-R8025		Black	pair	Y0E098010
	ST-R8000		Black	pair	Y0DK98010
	ST-6800		Black	pair	Y00E98080
	ST-6700		Black	pair	Y6SC98180
	ST-6700		Black	pair	Y6SC98180
	ST-R7170	SHIMANO 105	Black	pair	Y0RM98010
	ST-R7000		Black	pair	Y0DK98010
	ST-R7120/ST-R7020/ ST-R7025/ST-4720/ ST-4725/ST-RX600/ ST-RX400/BL-RX600-L	SHIMANO 105 TIAGRA GRX	Black	pair	Y0F398010
	ST-RX825	GRX	Black	pair	Y0SL98020
	ST-RX820		Black	pair	Y0RY98010
	ST-RX610		Black	pair	Y0SN98010
	ST-RX810	GRX	Black	pair	Y0JK98010
	ST-RX815		Black	pair	Y0JM98010
	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-R3000	SORA	Black	pair	Y0ST98010
	ST-R3030		Black	pair	Y0ST98010
	ST-R2000	CLARIS	Black	pair	Y0ST98010
	ST-R2030		Black	pair	Y0ST98010
	ST-R785	SHIMANO	Black	pair	Y07T98080
	ST-R5505		Black	pair	Y03N98020
	ST-R5405		Black	pair	Y03N98020
	NEW ST-U6030	SHIMANO CUES	Black	pair	Y0TU98010
	NEW ST-U3030		Black	pair	
	NEW ST-U2030	SHIMANO ESSA	Black	pair	Y0ST98010

Service Tips

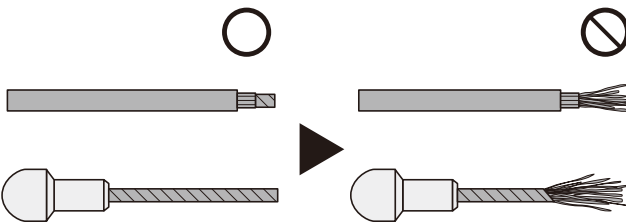
Replacement timing depends on the conditions you ride in, type of terrains, and riding style. It is always better to replace parts before they are completely worn out.

Rear Derailleur Pulley

Noise in a pulley often means it just needs to be lubricated. Also you should replace the pulley if it is cracked, missing and damaged teeth.



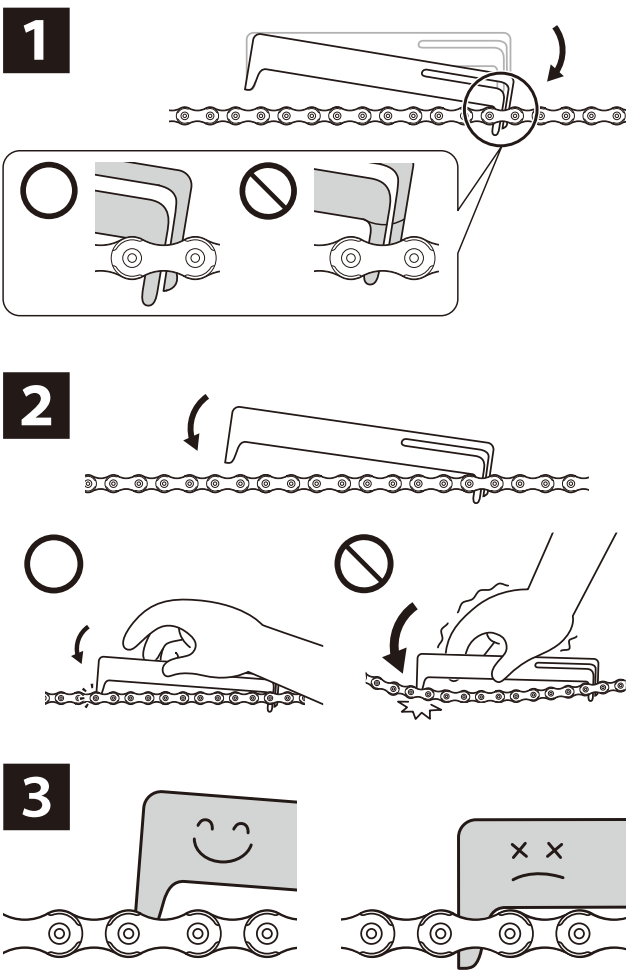
Cables (brake and shift)



When?	• When there is an increase in cable friction, or the cables become damaged
What will happen if ignored	• Cable disconnection • Troubles with shifting, braking
Notes	• Preventive maintenance is necessary

Chain

Cleaning the chain with neutral detergent and lubricating it can be an effective way for extending the useful life of the chain. In addition, washing drivetrain components (chainrings, cassettes and RD pulleys) periodically is also effective in extending their useful life.

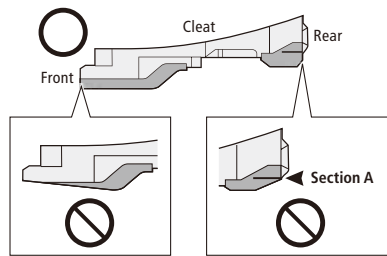


SHIMANO Chain Wear Indicator
SHIMANO chain wear indicator allows you to check the chain wear accurately, easily and quickly. The design of the TL-CN42 chain wear indicator prevents roller wear from affecting the reading.

When?	• TL-CN42 indicates the chain wear
Why?	• Chain is worn out
What will happen if ignored	• Trouble shifting, accelerated wear on other drivetrain components (cassettes/chainrings/pulleys)
Notes	• Regular cleaning and lubrication will prolong the life of the chain

SPD-SL Cleat

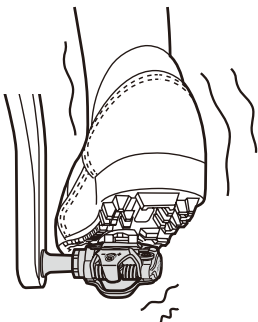
Cleats wear out over time and should be replaced periodically. Cleats should be replaced when it becomes difficult to release, or it starts to release with much less effort than the when it was in new condition.



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.

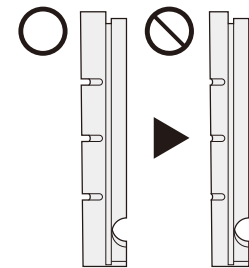
SPD Cleat

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 the 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.

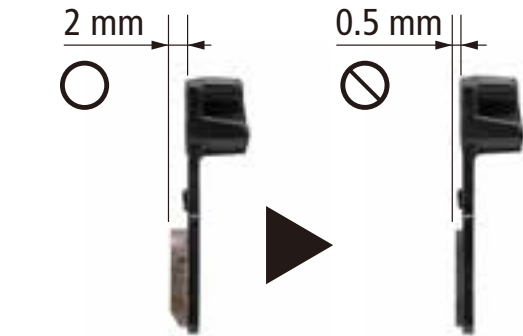
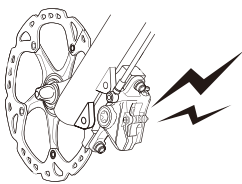


There are two different types of shoe and shoe holder to be used in the left and right positions respectively. Slide the new shoes into the grooves on the shoe holders while taking note of the correct directions and screw hole positions.

When?	• Before the grooves disappear
Why?	• Sign of replacement • Possibility of degradation
What will happen if ignored	• Not able to stop or control speed • Accelerate rim wear, cracks in brake shoes

Disc Brake Pad & Rotor

Please check the thickness of the brake pad for replacement periodically. If the thickness is 0.5 mm or below at the thinnest point, the brake pad needs to be replaced with a new one. If the disc brake rotor is cracked or deformed, immediately stop using the brakes. If the disc brake rotor becomes worn down to thickness of 1.5 mm or less at the thinnest point, or if the aluminum surface appears, immediately stop using the brakes. The disc brake rotor may break, and you may fall off the bicycle.



When?	• Pad material is less than 0.5 mm thick at the thickest point
Why?	• Sign of replacement
What will happen if ignored	• Damage to a rotor (more expensive)

Disc Brake Pads	
When?	• Pad material is less than 0.5 mm thick at the thickest point
Why?	• Sign of replacement
What will happen if ignored	• Damage to a rotor (more expensive)
Disc Brake Rotors	
When?	• Disc brake rotor is less than 1.5 mm thick at the thickest point or the aluminum surface appears
Why?	• Sign of replacement
What will happen if ignored	• The disc brake rotor may break and you may fall off the bicycle

MEMO

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.