ORIGINAL PARTS CATALOGUE 2026

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CATWOP26EN
8 717009 904186

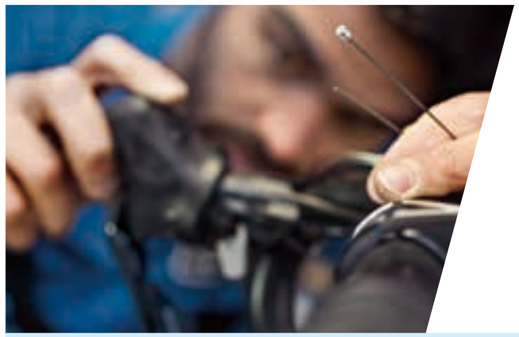
SHIMANO

There is really no substitution for SHIMANO Original 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 Original 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.

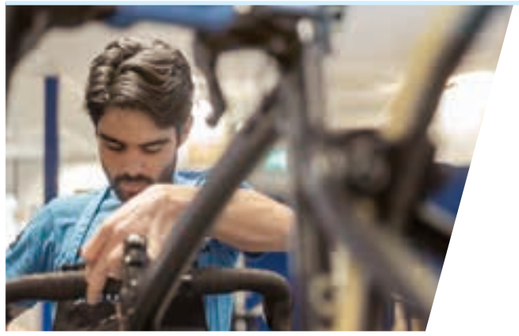


Guaranteed quality

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 Original 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 Original 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.

WORLD CLASS BIKE SERVICE

shimanoservicecenter.com

SHIMANO
SERVICE CENTER

Benefits of SHIMANO Original Parts

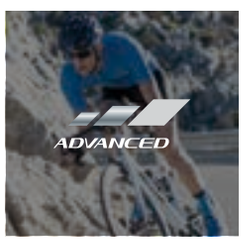
- SHIMANO system components: Made to work together in perfect harmony.
- No compromise: SHIMANO Original Parts precisely match SHIMANO systems.
- The highest quality standards for maximum fitting accuracy, reliability and safety.
- Retain value: SHIMANO Original Parts help retain your bicycle's value.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

GRADES OF THE ORIGINAL 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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XTR / DEORE XT

XTR M9200 SERIES/DEORE XT M8200 SERIES

DISC BRAKE PADS

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

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

E-BIKE RATED
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
	E-BIKE RATED	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.
BL-M9200 BL-M8200	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
BL-M9200	NEW BL-M9200	Y8WM9801T	Y1XJ9801T	Y8SZ07000	Y1XJ98030
	NEW BL-M9220	Y2RJ9801T	Y2RJ9802T	Y8SZ07000	Y2RJ98060
	NEW BL-M8200	Y2RJ9801T	Y2RJ9802T	Y8SZ07000	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.
FC-M9200/M9220	NEW FC-M9200/M9220 protection sticker (2 pcs.)	Y0X998040
	NEW FC-M8200 protection sticker (2 pcs.)	Y0TF98050

CHAINS

Chromizing Treatment Link Pin

Hollow Pin

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

12-speed

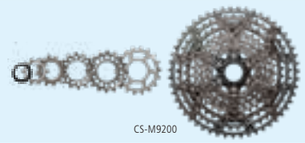
Type	Photo	Model no.	Performance indicator	E-Bike	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.
HYPERGLIDE+		CN-M9100	ULTIMATE	E-BIKE RATED	SIL-TEC	Chromizing	X	X	QUICK-LINK (SM-CN910-12)	242 g	ICNM9100116Q ICNM9100126Q ICNM9100138Q
		CN-M8100	ADVANCED		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	ISMCN91012A
				50 pairs (workshop jar)	ISMCN91012BS

CASSETTES

Cassettes MTB

1 unit (set)								
		Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
 CS-M9200	12-speed	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
		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	10T	12T	14T	16T
					Y0T49804T	Y0T49805T	Y0T49806T (CS-M9200)	Y0T49807T (CS-M9200)
							Y0T59803T (CS-M8200)	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.	Code no.				
			Spoke unit (Spoke + Nipple)	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

TL-FC36
HOLLOWTECH II bottom bracket cup tool

Code no.	Y13098000

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.

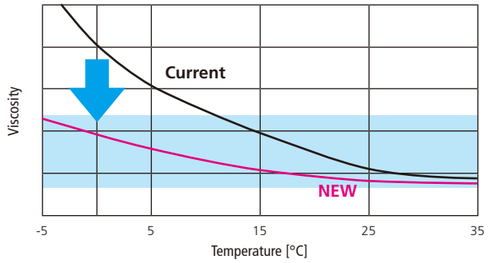
- Brake hose
- Connector insert
- Flare nut
- Olive
- SHIMANO bleeding tools (TL-BR001/TL-BR003)

SHIMANO low viscosity oil dedicated models

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

NEW

SHIMANO low viscosity oil **SHIMANO genuine mineral oil**



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

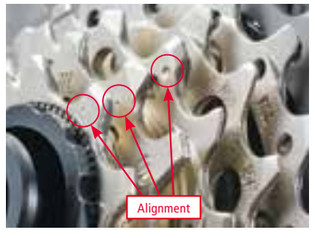
TL-LR021 for 9-45T cassette

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.



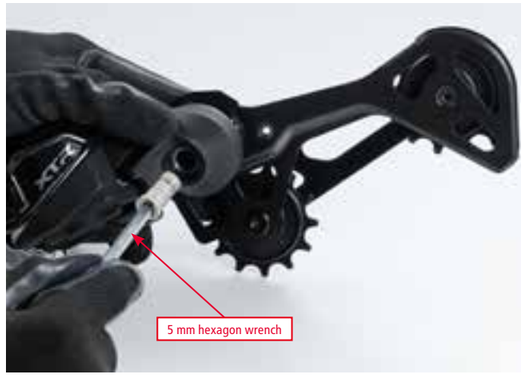
3. Tighten the lock ring.

(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

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

New resin friction material

- Consistently smooth and quiet braking operation
- Predictable braking power

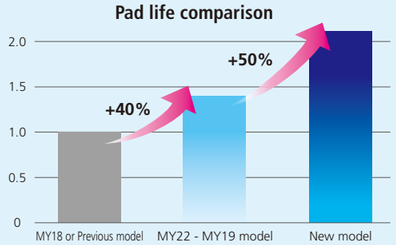
The durability of the resin pad has increased by 40% from MY19 (3rd generation). In addition, with this change (5th generation), the durability has been further increased by 50%. This change only applies to the brake pad for the 2-piston brake caliper.

How to read model no.

① ② ③ ④ ⑤
L 0 5 A - R F

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

Pad life comparison

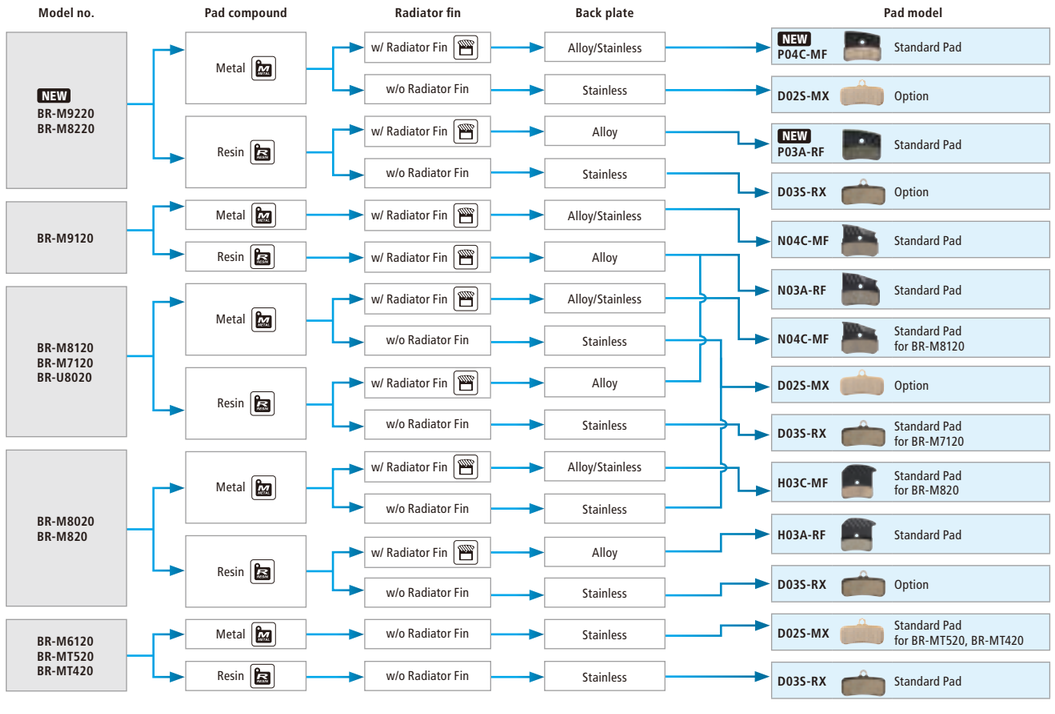


Resin disc brake pad

MY18 or Previous model	MY22 - MY19 model	New model
	40% durability up against old model	50% durability up against previous 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	–

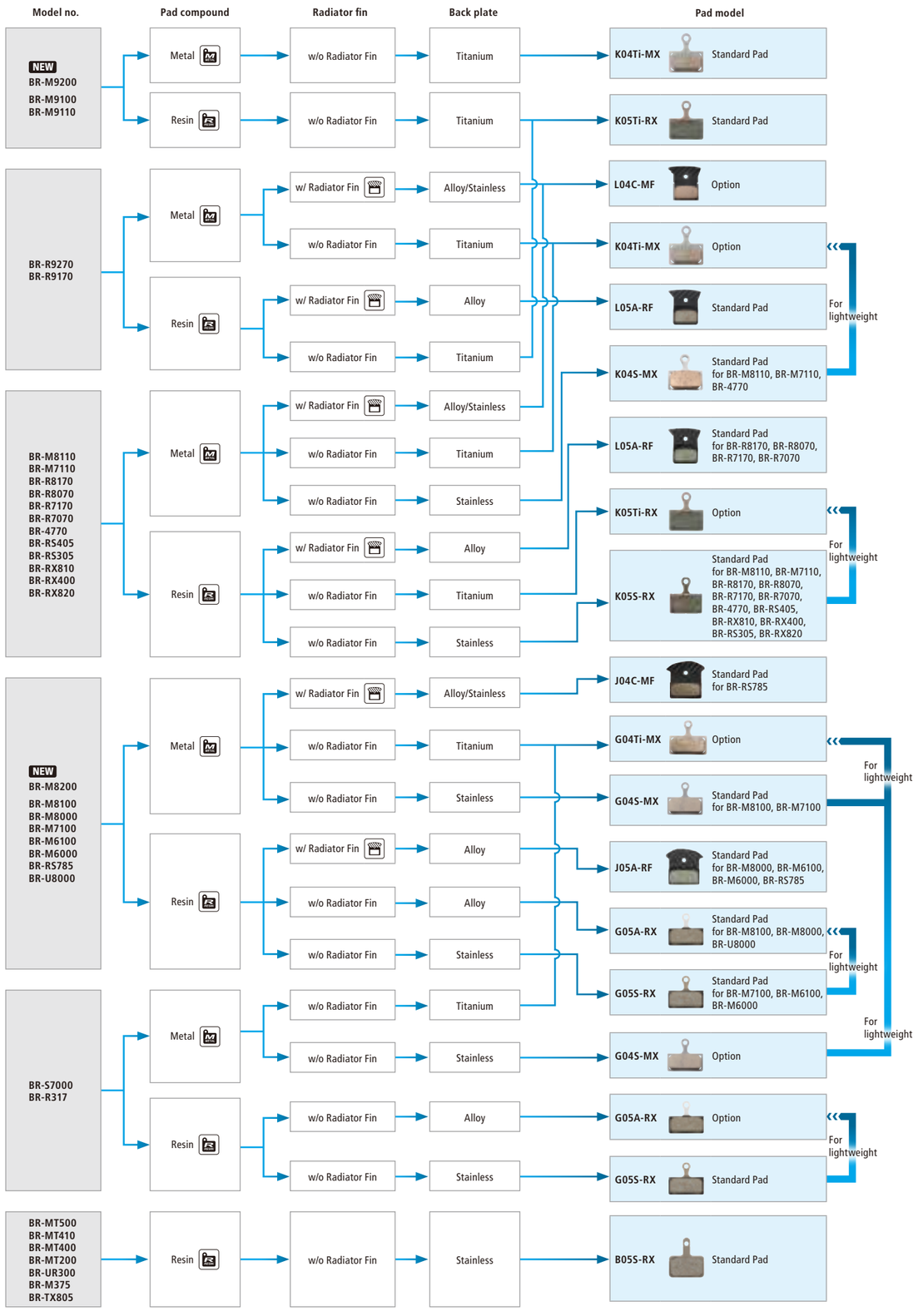
Disc brake pad selection chart

4-piston

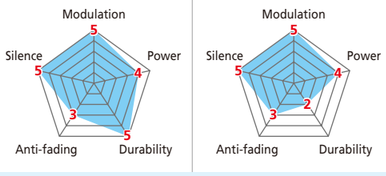


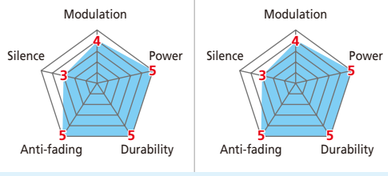
Disc brake pad selection chart

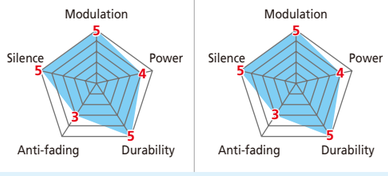
2-piston

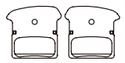
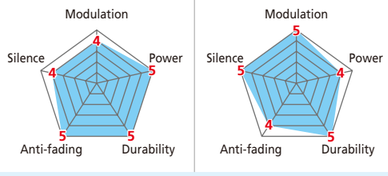


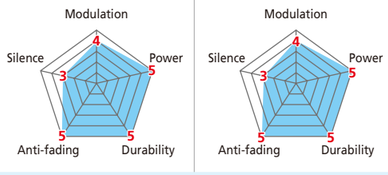
Pad characteristics

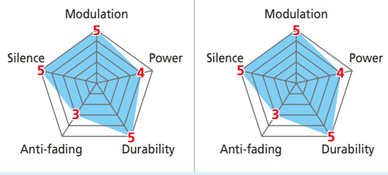
Model no.	B05S	M05
Type	Resin	Resin
Pad Shape Wide type		

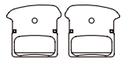
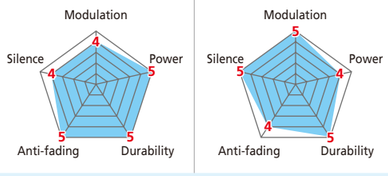
Model no.	G04Ti	G04S
Type	Metal	Metal
Pad Shape Narrow type		

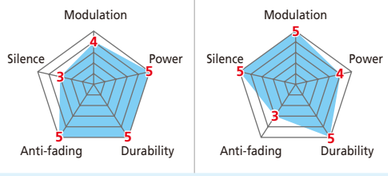
Model no.	G05A	G05S
Type	Resin	Resin
Pad Shape Narrow type		

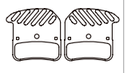
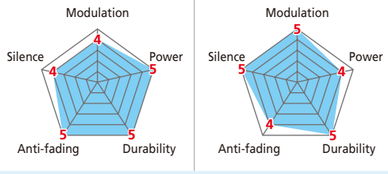
Model no.	J04C	J05A
Type	Metal	Resin
Pad Shape Narrow type		

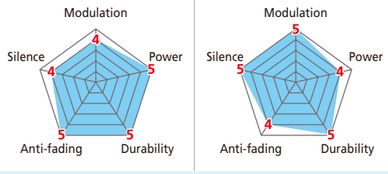
Model no.	K04Ti	K04S
Type	Metal	Metal
Pad Shape Narrow type		

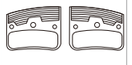
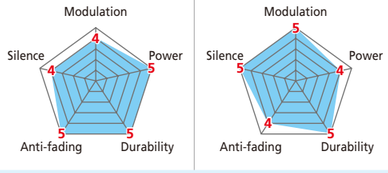
Model no.	K05Ti	K05S
Type	Resin	Resin
Pad Shape Narrow type		

Model no.	L04C	L05A
Type	Metal	Resin
Pad Shape Narrow type		

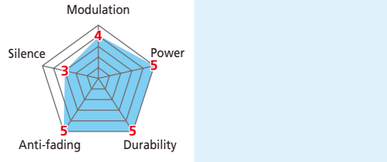
Model no.	D02S	D03S
Type	Metal	Resin
Pad Shape Narrow type		

Model no.	H03C	H03A
Type	Metal	Resin
Pad Shape Narrow type		

Model no.	N04C	N03A
Type	Metal	Resin
Pad Shape Narrow type		

Model no.	P04C	P03A
Type	Metal	Resin
Pad Shape Narrow type		

Model no.	M06
Type	Metal
Pad Shape Narrow type	



Disc brake pads

	E-Bike	Model no.	Pad type	Piston	Material			Series	Compatibility model	Remark	Code no. 1 pair	Code no. 25 pair	Code no. 50 pair
	E-BIKE RATED	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
	E-BIKE RATED	G04Ti-MX	Narrow	2-Piston	Metal	–	*****	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-R517, BR-R317, BR-U8000		IBPG04TIMXA	–	–
	E-BIKE RATED	G04S-MX	Narrow	2-Piston	Metal	–	*****	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-R517, BR-R317, BR-U8000		IBPG04SMXA	–	–
	E-BIKE RATED	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-R517, BR-R317, BR-U8000		EBPG05ARXA	EBPG05ARXBS	EBPG05ARXCS
	E-BIKE RATED	G05S-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-R517, BR-R317, BR-U8000		EBPG05SRXA	EBPG05SRXBS	–
	E-BIKE RATED	J04C-MF	Narrow	2-Piston	Metal	X	*****	XTR, DEORE XT, SLX, ALFINE, SHIMANO	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-M6100, BR-M6000, BR-M615, BR-S700, BR-RS785, BR-R785, BR-U8000		IBPJ04CMFA	IBPJ04CMFBS	–
	E-BIKE RATED	J05A-RF	Narrow	2-Piston	*Resin	X	****	XTR, DEORE XT, SLX, ALFINE, SHIMANO	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-M6100, BR-M6000, BR-M615, BR-S700, BR-RS785, BR-R785, BR-U8000		EBPJ05ARFA	EBPJ05ARFBS	–
	E-BIKE RATED	K04Ti-MX	Narrow	2-Piston	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-4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		IBPK04TIMXA	–	–
	E-BIKE RATED	K04S-MX	Narrow	2-Piston	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-4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		IBPK04SMXA	–	–
	E-BIKE RATED	K05Ti-RX	Narrow	2-Piston	*Resin	–	****	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-4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		IBPK05TIRXA	–	–
	E-BIKE RATED	K05S-RX	Narrow	2-Piston	*Resin	–	****	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-4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		EBPK05SRXA	–	–
	E-BIKE RATED	L04C-MF	Narrow	2-Piston	Metal	X	*****	DEORE XT (M8110), SLX (M7110), DURA-ACE, ULTEGRA, SHIMANO 105, TIAGRA, GRX, SHIMANO	BR-M8110, BR-M7110, BR-R9270, BR-R8170, BR-R7170, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		IBPL04CMFA	–	–
	E-BIKE RATED	L05A-RF	Narrow	2-Piston	*Resin	X	****	DEORE XT (M8110), SLX (M7110), DURA-ACE, ULTEGRA, SHIMANO 105, TIAGRA, GRX, SHIMANO	BR-M8110, BR-M7110, BR-R9270, BR-R8170, BR-R7170, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RS805, BR-RS505, BR-RS405, BR-RS305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		EBPL05ARFA	EBPL05ARFBS	–
	E-BIKE RATED	NEW P04C-MF	Narrow	4-Piston	Metal	X	*****	XTR, DEORE XT	BR-M9220, BR-M8220		IBPP04CMFA	–	–
	E-BIKE RATED	NEW P03A-RF	Narrow	4-Piston	Resin	X	****	XTR, DEORE XT	BR-M9220, BR-M8220		IBPP03ARFA	–	–
	E-BIKE RATED	D02S-MX	Narrow	4-Piston	Metal	–	*****	DEORE XT, SLX, DEORE, SAINT, ZEE, SHIMANO	BR-M8120, BR-M7120, BR-M6120, BR-M8020, BR-M820, BR-M810, BR-M640, BR-MT520, BR-MT420, BR-U8020		IBPD02SMXA	–	–
	E-BIKE RATED	D03S-RX	Narrow	4-Piston	Resin	–	****	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		EBPD03SRXA	EBPD03SRXBS	–
	E-BIKE RATED	H03C-MF	Narrow	4-Piston	Metal	X	*****	DEORE XT, SAINT, ZEE	BR-M8020, BR-M820, BR-M640		IBPH03CMFA	–	–
	E-BIKE RATED	H03A-RF	Narrow	4-Piston	Resin	X	****	DEORE XT, SAINT, ZEE	BR-M8020, BR-M820, BR-M640		EBPH03ARFA	–	–
	E-BIKE RATED	N04C-MF	Narrow	4-Piston	Metal	X	*****	XTR, DEORE XT, SLX	BR-M9120, BR-M8120, BR-M7120, BR-U8020		IBPN04CMFA	–	–
	E-BIKE RATED	N03A-RF	Narrow	4-Piston	Resin	X	****	XTR, DEORE XT, SLX	BR-M9120, BR-M8120, BR-M7120, BR-U8020		EBPN03ARFA	–	–
	E-BIKE RATED	M05-RX	Wide	2-Piston	Resin	–	****	SHIMANO	BR-C601, BR-M515, BR-M515LA		IBPM05RXA	–	–
	E-BIKE RATED	M04-RX	Narrow	2-Piston	Resin	–	****	DEORE XT	BR-M755		IBPM04RXA	–	–
	E-BIKE RATED	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-RS505, BR-T665, BR-T605		IBPM06MXA	–	–

*New resin: 50% more durable

OTHERS

DISC BRAKE ROTORS

E-BIKE RATED

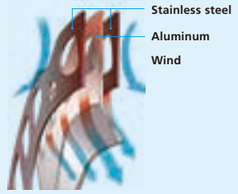
ICE TECHNOLOGIES
Consistent braking performance that is suitable for the higher average speed and weight of an e-bike.

ULTIMATE
ICE TECHNOLOGIES FREEZA

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)

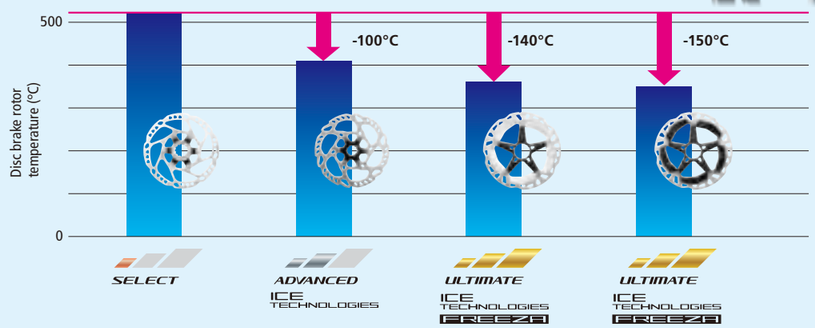
Reduce by more than 10°C due to high heat dissipation paint (applies to SM-RT900 and RT-MT900)



ADVANCED
ICE TECHNOLOGIES

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

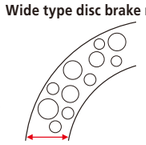
Brake caliper	Brake pad material	Pad type	Disc brake rotor 220 mm (LL)	203 mm (L)	180 mm (M)	160 mm (S)	140 mm (SS)
BR-M9200*4 BR-M8110*6 BR-M6120 BR-M9220*8 BR-M8120 BR-MT805*6 BR-M9100*4 BR-M8000 BR-MT520 BR-M9110*5 BR-M8020 BR-MT420 BR-M9120*8 BR-M7100 BR-M820 BR-M8200 BR-M7110*6 BR-U8000 BR-M8220*8 BR-M7120 BR-U8010*4 BR-M8100 BR-M6100 BR-U8020	Metal/Resin	Narrow	SM-RT66 SM-RT64	RT-CL900 SM-RT76 RT-CL800 SM-RT70 RT-CL700 SM-RT66 RT-CL300*2 SM-RT64 RT-MT905 SM-RT30*2 RT-MT900 RT-EM910*1 SM-RT99 RT-EM900*1 RT-MT800 RT-EM810*1 SM-RT86 RT-EM600*1 SM-RT81 RT-EM300*1*2	RT-CL900 SM-RT64 RT-CL800 SM-RT56*2 RT-CL700 SM-RT54*2 RT-CL300*2 SM-RT30*2 RT-MT905 SM-RT26*2 RT-MT900 SM-RT10*2 SM-RT99 RT-EM910*1 RT-MT800 RT-EM900*1 SM-RT86 RT-EM810*1 SM-RT81 RT-EM800*1 SM-RT76 RT-EM600*1 SM-RT70 RT-EM300*1*2 SM-RT66	RT-CL900 SM-RT64 RT-CL800 SM-RTC60 RT-CL700 SM-RT56*2 RT-CL300*2 SM-RT54*2 RT-MT900 SM-RT30*2 SM-RT900 SM-RT26*2 SM-RT800 SM-RT10*2 SM-RT99 RT-EM910*1 RT-MT800 RT-EM900*1 SM-RT86 RT-EM810*1 SM-RT81 RT-EM800*1 SM-RT76 RT-EM600*1 SM-RT70 RT-EM300*1*2 SM-RT66	RT-CL900 RT-CL800 RT-CL700 RT-MT900 SM-RT900 SM-RT99 SM-RT99-A RT-MT800 SM-RT800 SM-RT81 SM-RT70 SM-RT26*2
BR-S700 BR-S7000	Resin	–	–				
BR-MT410	Resin	Wide	–	RT-CL300 RT-EM300*1 SM-RT30	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	SM-RT26
BR-T675 BR-MT400 BR-M315 BR-T615 BR-M3050 BR-TX805 BR-M4050 BR-M375 BR-U6030*8 BR-MT500 BR-MT200 BR-UR300*8 BR-M446 BR-M365	Resin	Wide	–	–			
BR-R9270*7 BR-RS785 BR-R9170*3 BR-RS505 BR-R8170 BR-RS405*9 BR-R8070 BR-RS305 BR-R7170 BR-RX820 BR-R7070 BR-RX820-LE BR-4770 BR-RX810 BR-RS805 BR-RX410 BR-R785 BR-RX400	Metal/Resin	Narrow	–	–	RT-CL900 SM-RT64 RT-CL800 SM-RT56*2 RT-CL700 SM-RT54*2 RT-CL300*2 SM-RT30*2 RT-MT905 SM-RT26*2 RT-MT900 SM-RT10*2 RT-MT800 RT-EM910*1 SM-RT99 RT-EM900*1 SM-RT86 RT-EM810*1 SM-RT81 RT-EM800*1 SM-RT76 RT-EM600*1 SM-RT70 RT-EM300*1*2 SM-RT66	RT-CL900 SM-RT66 RT-CL800 SM-RT64 RT-CL700 SM-RT56*2 RT-CL300*2 SM-RT54*2 RT-MT900 SM-RT30*2 SM-RT900 SM-RT26*2 RT-MT800 SM-RT10*2 SM-RT800 SM-RT910*1 SM-RT99 SM-RT900*1 SM-RT86 SM-RT810*1 SM-RT81 SM-RT800*1 SM-RT76 RT-EM600*1 SM-RT70 RT-EM300*1*2	RT-CL900 RT-CL800 RT-CL700 RT-MT900 SM-RT900 SM-RT99 SM-RT99-A RT-MT800 SM-RT800 SM-RT81 SM-RT70 SM-RT64 SM-RT26*2
BR-CX77 BR-R517 BR-R317	Metal/Resin	Narrow	–	–	–	SM-RT99 SM-RT86 SM-RT70 SM-RT81 SM-RT66 SM-RT76 SM-RT64	SM-RT99 SM-RT99-A SM-RT81
BR-U5000*3	Metal/Resin	Narrow	–	–	–	SM-RT99 SM-RT86 SM-RT70 SM-RT81 SM-RT66 SM-RT76 SM-RT64	SM-RT500 SM-RT99 SM-RT99-A SM-RT81

*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.

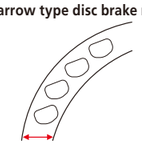
NOTE

1. 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.
2. 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.
3. Narrow type 2 piece disc brake rotors are not compatible to brake caliper for wide type disc brake rotor because of interference.
4. BR-UR300 doesn't need a front mount bracket and rear adapter.

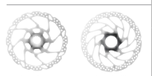
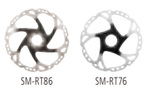
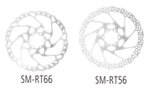
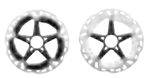
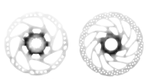
Wide type disc brake rotor



Narrow type disc brake rotor



Disc brake rotor

	Mount	Model no.	Performance indicator	Technology	MTB	ROAD	E-Bike	Compatible brake pad: Metal	Compatible brake pad: Resin	Disc brake rotor size	Lock ring: Alloy	Lock ring spline type: External	Lock ring spline type: Internal	Semi bulk (10 pcs.): Without lock ring for CENTER LOCK	5/6-Bolt
RT-CL900 RT-MT905	CENTER LOCK	RT-CL900	ULTIMATE	ICE TECHNOLOGIES FREEZA	X	–	E-BIKE RATED	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	–	–
					–	–		X	X	160 mm	X	–	IRTCL900SJ	–	–
	6-Bolt	RT-MT905			X	–		X	X	203 mm	X	–	–	–	IRTMT905L
					X	–		X	X	180 mm	X	–	–	–	IRTMT905M
RT-CL800	CENTER LOCK	RT-CL800	ULTIMATE	ICE TECHNOLOGIES FREEZA	X	–	E-BIKE RATED	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	–	–
	CENTER LOCK	NEW RT-CL700	ADVANCED	ICE TECHNOLOGIES	X	–	E-BIKE RATED	X	X	203 mm	–	ERTCL700LE	ERTCL700LI	–	–
					X	–		X	X	180 mm	–	ERTCL700ME	ERTCL700MI	–	–
					X	X		X	X	160 mm	–	ERTCL700SE	ERTCL700SI	–	–
					X	X		X	X	140 mm	–	ERTCL700SSE	ERTCL700SSI	–	–
SM-RT70 SM-RT64	CENTER LOCK	SM-RT70	ADVANCED	ICE TECHNOLOGIES	X	–	E-BIKE RATED	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	–	–
					X	X		X	X	160 mm	–	–	ESMRT70SJ	–	–
		SM-RT64	SELECT	Standard	X	–	E-BIKE RATED	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-RT54 SM-RT30 SM-RT10	CENTER LOCK	SM-RT54	SELECT	Standard	X	–	E-BIKE RATED	–	X	180 mm	–	ESMRT54ME	ESMRT54MI3	ESMRT54MXS	–
					X	–		–	X	160 mm	–	ESMRT54SE	ESMRT54SI3	ESMRT54SXS	–
		SM-RT30			X	–	E-BIKE RATED	–	X	203 mm	–	ESMRT30L2		–	–
					X	–		–	X	180 mm	–	ESMRT30M2		–	–
					X	–		–	X	160 mm	–	ESMRT30S2		–	–
		SM-RT10			X	–	E-BIKE RATED	–	X	180 mm	–	ESMRT10M2		–	–
					X	–		–	X	160 mm	–	ESMRT10S2		–	–
 SM-RT86 SM-RT76  SM-RT66 SM-RT56 SM-RT26	6-Bolt	SM-RT86	ADVANCED	ICE TECHNOLOGIES	X	–	E-BIKE RATED	X	X	203 mm	–	–	–	–	ESMRT86L2
					X	–		X	X	180 mm	–	–	–	–	ESMRT86M2
					X	X		X	X	160 mm	–	–	–	–	ESMRT86S2
		SM-RT76		Standard	X	–	E-BIKE RATED	X	X	203 mm	–	–	–	–	ESMRT76L2
					X	–		X	X	180 mm	–	–	–	–	ESMRT76M2
					X	X		X	X	160 mm	–	–	–	–	ESMRT76S2
		SM-RT66	SELECT		X	–	E-BIKE RATED	X	X	220 mm	–	–	–	–	ESMRT66LLP
					X	–		X	X	203 mm	–	–	–	–	ESMRT66LP
					X	–		X	X	180 mm	–	–	–	ESMRT66MSP	ESMRT66MP
					X	–		X	X	160 mm	–	–	–	ESMRT66SSP	ESMRT66SP
		SM-RT56			X	–	E-BIKE RATED	–	X	180 mm	–	–	–	–	ESMRT56MP
					X	–		–	X	160 mm	–	–	–	–	ESMRT56SP
		SM-RT26			X	–	E-BIKE RATED	–	X	180 mm	–	–	–	–	ESMRT26MP
					X	–		–	X	160 mm	–	–	–	–	ESMRT26SP
					X	–		–	X	NEW 140 mm	–	–	–	–	ESMRT26SSP
 RT-EM910 RT-EM810  RT-EM600 RT-EM300	CENTER LOCK	RT-EM910	ULTIMATE	ICE TECHNOLOGIES FREEZA	–	–	E-BIKE RATED	X	X	203 mm	X	IRTEM910LE	IRTEM910LI	–	–
					–	–		X	X	180 mm	X	IRTEM910ME	IRTEM910MI	–	–
					–	–		X	X	160 mm	X	IRTEM910SE	IRTEM910SI	–	–
		RT-EM810			–	–	E-BIKE RATED	X	X	203 mm	X	IRTEM810LE	IRTEM810LI	–	–
					–	–		X	X	180 mm	X	IRTEM810ME	IRTEM810MI	–	–
					–	–		X	X	160 mm	X	IRTEM810SE	IRTEM810SI	–	–
		RT-EM600		Standard	–	–	E-BIKE RATED	X	X	203 mm	–	ERTEM600LEC	Black: ERTEM600LI3C Silver: ERTEM600LIC	–	–
					–	–		X	X	180 mm	–	ERTEM600MEC	Black: ERTEM600MI3C Silver: ERTEM600MIC	–	–
					–	–		X	X	160 mm	–	ERTEM600SEC	Black: ERTEM600SI3C Silver: ERTEM600SIC	–	–
		RT-EM300			–	–	E-BIKE RATED	–	X	203 mm	–	ERTEM300L	ERTEM300L	–	–
					–	–		–	X	180 mm	–	ERTEM300M	ERTEM300M	–	–
					–	–		–	X	160 mm	–	ERTEM300S	ERTEM300S	–	–
	5-Bolts with 74 mm PCD	SM-RTC60	SELECT		–	–	E-BIKE RATED	X	X	160 mm	–	–	–	–	ESMRTC60S

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	*4	Black 1,000 mm	ISMBH90SBLSL100
					*****	Black 1,700 mm	ISMBH90SBLSL170
						Black 2,000 mm	ISMBH90SBLSL200
	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	*4	Black 1,000 mm	ISMBH90SBLSL100B
					*****	Black 1,700 mm	ISMBH90SBLSL170B
						Black 2,000 mm	ISMBH90SBLSL200B
	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	*4	Black 1,000 mm	ISMBH90SBSL100
					*****	Black 1,700 mm	ISMBH90SBSL170
						Black 2,000 mm	ISMBH90SBSL200
	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	*4 Slit	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	*4	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	*4	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	*4	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	*4	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	*4	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
	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

	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-RS785, BR-R785, BR-S700, BR-U8000
	Y8CL12000	BR-M975, BR-M966, BR-M965, BR-M800, BR-M776, BR-M775, BR-M765, BR-M665, BR-M601, BR-M596, BR-M595, BR-M585, BR-M535, BR-S501, BR-S500, BR-T665, BR-T605
	Y8J506000	BR-M447, BR-M446, BR-M445, BR-M4050, BR-M395, BR-M355, BR-M3050, BR-T675, BR-T615
	Y8FF18000	BR-M9120, BR-M8020, BR-M820, BR-M810, BR-M640
	Y84E03000	BR-M6000, BR-M615
	Y8C515000	BR-M575, BR-M525, BR-M486, BR-M485
	Y8PE03000	BR-M6100, BR-MT500, BR-MT410, BR-MT400, BR-MT200, BR-UR300, BR-S7000
	Y8N218000	BR-R9270, BR-R8170, BR-R7170, BR-M9100, BR-M9110, BR-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

Bleed spacer

	Code no.	Model no.
	Y8J712000	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-RS785, BR-R785, BR-S700
	Y8FZ05000	BR-M575, BR-M486, BR-M485, BR-M447, BR-M446, BR-M445, BR-M4050, BR-M395, BR-M365, BR-M355, BR-M315, BR-M3050, BR-MT500, BR-MT410, BR-MT200, BR-T675, BR-T615, BR-UR300
	Y8FF19000	BR-M9120, BR-M8120, BR-M8020, BR-M7120, BR-M6120, BR-M820, BR-M810, BR-M640, BR-MT520, BR-MT420
	Y8J712100	BR-M6100, BR-M6000, BR-M615, BR-S7000
	Y8N219000	BR-M9100, BR-M9110, BR-M8110, BR-M7110, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RX810, BR-RX400, BR-RS805, BR-RS505, BR-RS405, BR-U5000
	Y2HW15000	BR-R9270, BR-R8170, BR-R7170
	NEW Y2RB9802T	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	ULTIMATE	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 ESMMAF203PPL2 ESMMAF220PPM ESMMAF220PPL ESMMAF220PPL2 ISMMAF160PSA ISMMAF180PSA ISMMAF203PSA ISMMAF140PDA ISMMAF160PDA ISMMAR160PSA ISMMAR180PSA ISMMAR203PSA ISMMAR140PDH ISMMAR160PDH	ADVANCED	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	–
			Flat mount		ISMMAF140PDA	ISMMAF160PDA	–	–	–
		Rear	Post mount	140 mm direct	Direct mount	ESMMAF180PP2A	–	–	–
				160 mm direct	–	Direct mount	ESMMAF180PP2A	ISMMAF203PPA	–
				180 mm direct	–	–	Direct mount	ESMMAF203PPMA	ESMMAF220PPM
				200 mm direct	–	–	–	ESMMAF203PPL2	ESMMAF220PPL2
				203 mm direct	–	–	–	Direct mount	ESMMAF220PPL
			International A-standard		–	ISMMAR160PSA	ISMMAR180PSA	ISMMAR203PSA	–
			Flat mount		ISMMAR140PDH	ISMMAR160PDH	–	–	–

*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	SELECT	Front	Post mount	–	–	ISMMAF180SPA	ISMMAF203SPA	–
ISMMAF180SSA ISMMAF203SSA	SELECT	Front	International A-standard	–	Direct mount	ISMMAF180SSA	ISMMAF203SSA	–
ISMMAR180SSA ISMMAR203SSA	SELECT	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

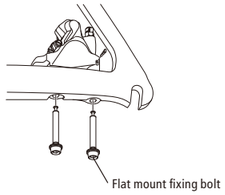
	Performance indicator	Fork and frame mount style		Disc brake rotor size				
				140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)	220 mm (LL)
	ADVANCED	Rear	140 mm direct	Direct mount	ISMMAR160DDB	–	–	–

Converter for flat frame and postmount caliper

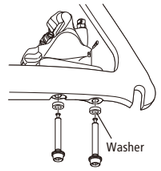
	Performance indicator	Fork and frame mount style		Disc brake rotor size			
				140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)
ISMMAF140PDA ISMMAF160PDA	ADVANCED	Front	140 mm flat mount	ISMMAF140PDA	ISMMAF160PDA	–	–
ISMMAR140PDH ISMMAR160PDH	ADVANCED	Rear	140 mm flat mount	ISMMAR140PDH	ISMMAR160PDH	–	–

Mounting flat mount type brake caliper on the bicycle frame

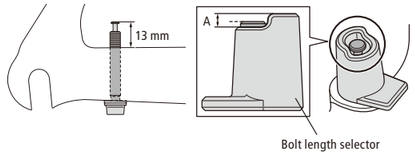
In case of using 140 mm disc brake rotor for rear disc brake



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

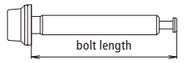


How to identify the optimal bolt length using the bolt length selector.



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.

Flat mount fixing bolt length (mm)



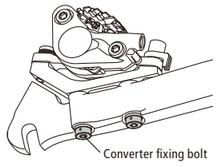
Fixing bolt for flat mount			
Frame thickness	Bolt length	Unit (pcs)	Code no.
10 mm	23 mm	1	Y8N208000*2
15 mm	28 mm	1	Y8N208050*2
20 mm	33 mm	1	Y8N208010*2
25 mm	38 mm	1	Y8N208020*1
30 mm	43 mm	1	Y8N208030*2
35 mm	48 mm	1	Y8N208040*2

Bolts for 25 mm thick frames are included with converters. Other bolts lengths are sold separately.
*1 Included in flat mount type brake caliper
*2 Not included in brake caliper

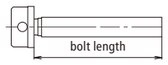
Including rear caliper

Bolt length selector	
Code no.	Description
Y8N221000	Bolt length selector

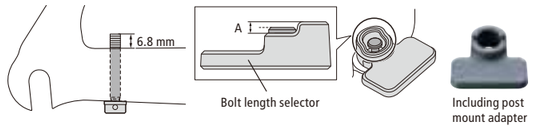
Mounting post mount type brake caliper with flat mount converter on the bicycle frame



Converter fixing bolt length (mm)



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



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

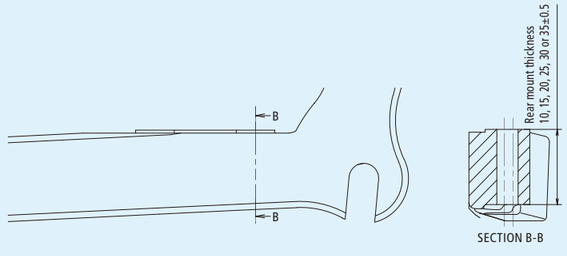
Bolts for 25 mm thick frames are included with converters. Other bolts lengths are sold separately.
*1 Included in mount converter SM-MA-R140P/D (ISMMAR140PDH), SM-MA-R160P/D (ISMMAR160PDH)
*2 Not included in mount converter

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.

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.
				Direct										
	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-RS811-R)	ULTEGRA	–	X	–	X	–	–	–	–	BR-R8110-F, BR-RS811-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.
				Direct										
	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-RS811R, 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-RS811R, 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-RS811R, 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	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-RS811R, 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

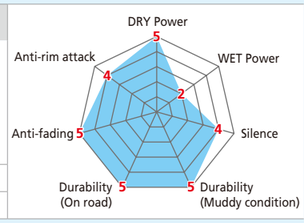
	Model no.	Series	Icon								Compatibility model	Remark	Unit (pair)	Code no.
				Direct										
	BR-6403		X	–	–	X	–	–	–	–	BR-6403, BR-4400, BR-3300, BR-1055, BR-A550, BR-A450, BR-A416, BR-A410, BR-A350, BR-A250		5	Y83G98010
	R50T2 (BR-4600)	TIAGRA SORA	X	–	–	X	–	–	–	–	BR-4600, BR-4500, BR-3500, BR-3400, 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	Y8BC98100
	R50T2 (BR-CX50)		–	–	X	X	–	–	–	–	BR-CX50	(L) Bolts & Washers	1	Y8K598020
												(M) Bolts & Washers		Y8K598030
												(S) Bolts & Washers		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

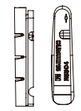
Power and control

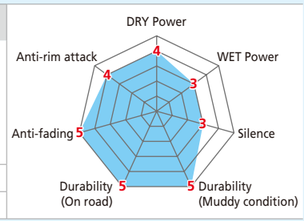
Always use SHIMANO brake shoes to ensure top brake performance and maintain the safety of your SHIMANO brake system.
SHIMANO's racing brake cartridges provide the ideal hardness for high stopping power combined with great levels of control.

Shoe characteristics

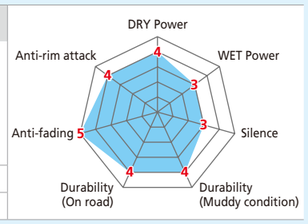
Model no.	
R55C4	
Cartridge type	X
Recommended rim	Aluminum



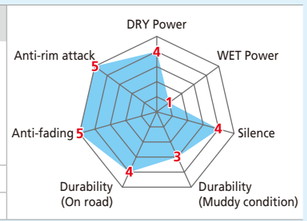
Model no.	
R55C4 For Carbon Rim	
Cartridge type	X
Recommended rim	Carbon



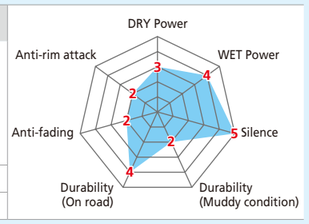
Model no.	
R55C4-A For Carbon Rim	
Cartridge type	X
Recommended rim	Carbon

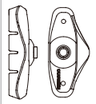


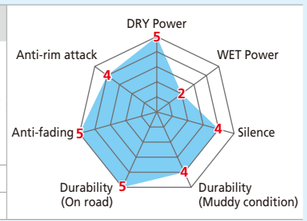
Model no.	
R55C+1	
Cartridge type	X
Recommended rim	Aluminum

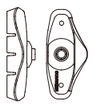


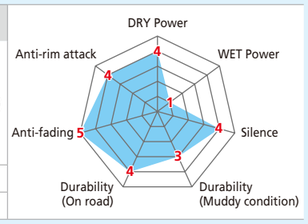
Model no.	
M50T	
Cartridge type	–
Recommended rim	Aluminum

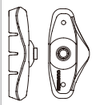


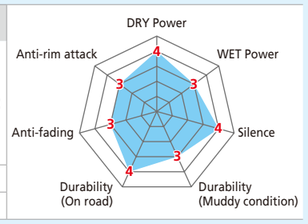
Model no.	
R50T5	
Cartridge type	–
Recommended rim	Aluminum



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	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		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		X	–	***	X	–	–	BR-M422, BR-M421, BR-M420, BR-M330, BR-T4000		10	Y8GP9810A
	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

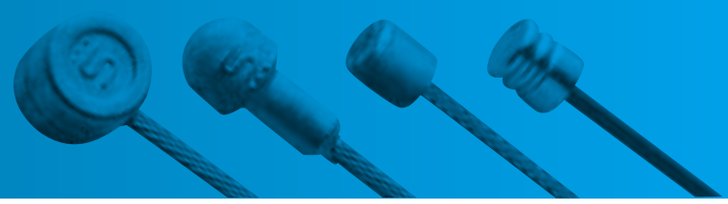
DIAPHRAGM

Diaphragm

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

SHIFTING/BRAKE CABLE SYSTEMS

At the heart of performance and control.



CABLES

SHIFTING CABLES: ROAD, MTB

BRAKE CABLES: ROAD, MTB

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

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

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

OPTISLICK
Improves cable routing efficiency and provides excellent corrosion resistance

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

Low friction
Cables are formed with curved surface for low friction

Anti-rust
Stainless steel cable for anti-rust protection

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

Mud resistance
Sealed end caps to minimize mud contamination

Shifter cable end

MTB brake cable end

Road brake cable end

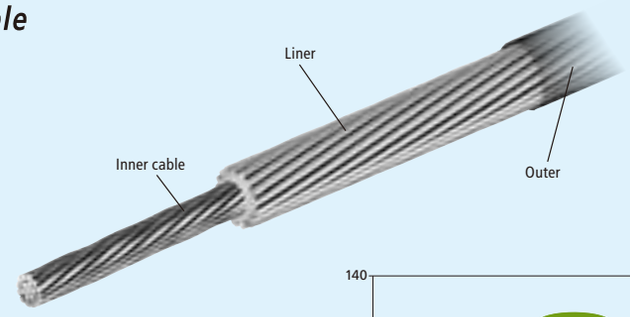
ULTIMATE

Polymer Coated Cable

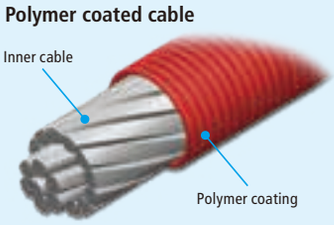
Recommended for internal cable routing

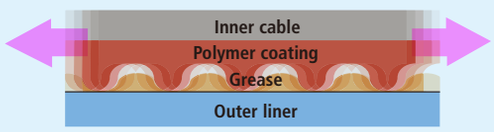
Leading-edge technology for the highest level of riding

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.

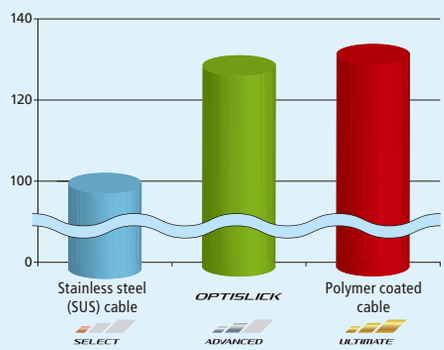


Polymer coated cable





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



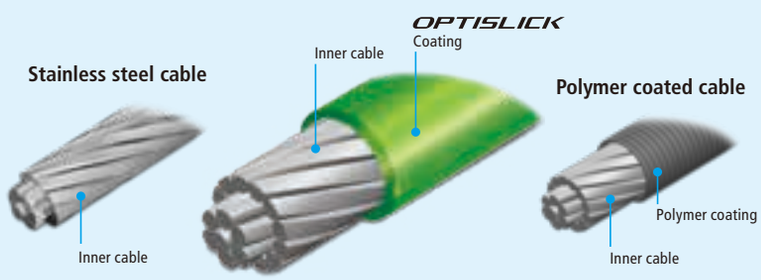
ADVANCED

OPTISLICK

Recommended for internal cable routing

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.



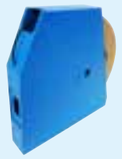
SHIMANO cable dispensers

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.

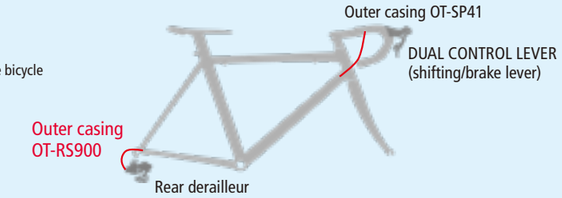
Product			With brown outer box	Without brown outer box
Shift cable	OT-SP41	Black 50 m	IOT41SP50ML	Y6009858A
Brake Cable	BC-9000	Black 40 m	Y8YZA0489	Y8YZA048B
	SLR	Black 40 m	Y80900011	Y8090001A
	M-SYSTEM	Black 40 m	Y80900013	Y8090001B



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

OT-RS900

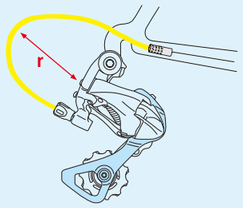
RD-R9100, RD-R8000, RD-RX800 and RD-R7000 must be assembled on the bicycle with a special outer casing, OT-RS900.

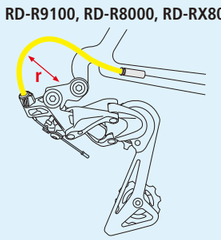


Purpose of OT-RS900

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.

Cable routing of the shifting cable





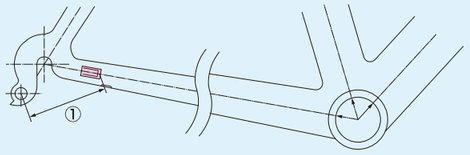
The OT-RS900 and OT-SP41 can be distinguished by the logo on the outside.

OT-RS900	
OT-SP41	

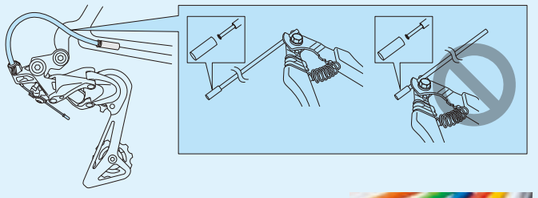
Assembly of OT-RS900

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)

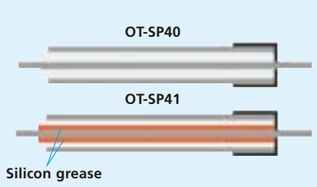


Outer casing length (mm)	Outer casing	Dimension ①						
		40 mm	50 mm	60 mm	80 mm	100 mm	125 mm	150 mm
	OT-RS900	110	130	150	170	200	220	240



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, SUS	• 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
				• 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
	ADVANCED	OPTISLICK shifting inner cable	OPTISLICK, SUS	• Stainless steel • ø 1.2 mm x 2,100 mm incl. inner end cap	Y60198100
	SELECT	Stainless steel shifting inner cable	SUS	• Stainless steel • ø 1.2 mm x 2,100 mm incl. inner end cap	Y60098911
	SELECT	Stainless steel shifting inner cable for tandem	SUS	• 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.)	Polymer, SUS, Si, SP41	Black		Y0BM98010
					White		Y0BM98020
					Red		Y0BM98030
					High-tech gray		Y0BM98040

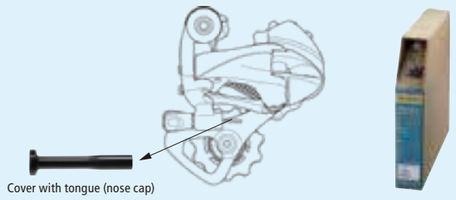
OT-SP41 polymer coated shifting cable sets

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	Polymer, SUS, Si, SP41	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.



Cover with tongue (nose cap)

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

Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color		Code no.
• ø 1.2 mm x 2,100 mm (1 pc.) • ø 1.2 mm x 1,800 mm (1 pc.) • OPTISLICK • Stainless steel	ADVANCED	• 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	ADVANCED	• 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.)	SELECT	• 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.)	SELECT	• 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	ULTIMATE	• 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	ADVANCED	• 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	SELECT	• 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	ULTIMATE	• 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)

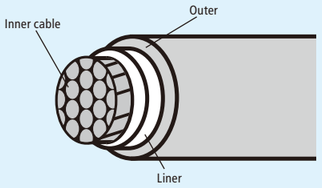
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color		Code no.
• ø 1.2 mm x 2,100 mm • OPTISLICK • Stainless steel	ADVANCED	• Sealed outer caps, plastic (5 pcs.) • Sealed outer caps nose (1 pc.) • Rubber shields (1 pc.) • Inner end caps (1 pc.)	• OT-SP41 2,000 mm		Black		Y60198092

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	SELECT	• 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



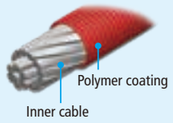
Brake inner cable types:

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

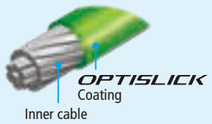
ADVANCED **SIL-TEC coated brake inner cable**
Advanced functions for the serious riding

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

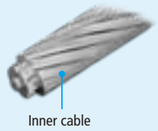
Polymer coated cable



SIL-TEC coating



Stainless steel cable



Road/MTB brake inner cables

Road brake inner cables

	Performance indicator	Product name	Icon	Description	Code no.
	ULTIMATE	Polymer coated brake inner cable	Polymer, SUS,	• 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
	ADVANCED	SIL-TEC coated brake inner cable	SIL-TEC, SUS,	• SIL-TEC coating • ø 1.6 mm x 2,050 mm • Stainless steel incl. inner end cap	Y80098320
	SELECT	Stainless steel brake inner cable	SUS,	• ø 1.6 mm x 2,050 mm • Stainless steel	Y80098330
	SELECT	Stainless steel brake inner cable for tandem	SUS,	• 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.
	SELECT	Stainless steel brake inner cable	SUS,	• ø 1.6 mm x 2,050 mm • Stainless steel incl. inner end cap	Y80098210
	SELECT	Stainless steel brake inner cable for tandem	SUS,	• ø 1.6 mm x 3,500 mm • Stainless steel incl. inner end cap	Y80Z35013

Road/MTB brake inner cables

	Performance indicator	Product name	Icon	Description	Unit	Code no.
	SELECT	Double-End steel brake inner cable (diameter 1.6 mm × 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 × 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 	ULTIMATE	• 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.)	BC-9000, Polymer, SUS,	Black	Y8YZ98010
					White	Y8YZ98020
					Red	Y8YZ98030
					High-tech gray	Y8YZ98040
					Blue	Y8YZ98091
					Yellow	Y8YZ98092
					Lime green	Y8YZ98090
					Orange	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 2,050 mm • SIL-TEC coating • Stainless steel 	ADVANCED	• Inner end caps (2 pcs.) • Outer end caps (2 pcs.) 	• SLR 1,400 mm • SLR 800 mm	SLR, SIL-TEC, SUS,	Black	Y80098011
					White	Y80098012
					Red	Y80098014
					High-tech gray	Y80098018
					Blue	Y80098015
					Yellow	Y80098013
					Lime green	Y80098016
					Orange	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 	SELECT	• Inner end caps (2 pcs.) • Outer end caps (2 pcs.) 	• SLR 2,200 mm	SLR, SUS,	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 	SELECT	• Inner end caps (2 pcs.) • Outer end caps (2 pcs.) 	• M-System 2,200 mm	SUS,	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 	SELECT	• 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

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

Cable adjuster with quick release

	Model no.	Unit/Qty	Code no.
	SM-CB90	1	ISMCB90

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

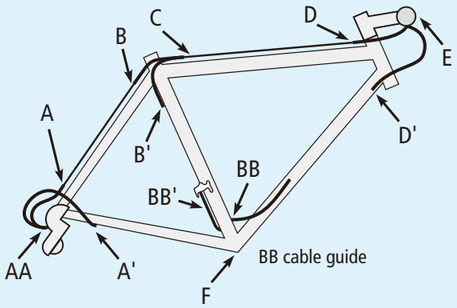
Shift outer cap

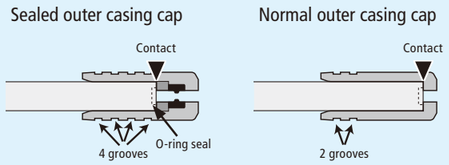
	Material	Description	QTY (pcs. per box)	Code no.	
	–	Cap bottle holder kit	Aluminum sealed outer cap 100 pcs.	Y6YX90011	Y13098624
			Sealed outer cap 6 mm 200 pcs.	Y6Z298012	
			Normal outer cap 6 mm 200 pcs.	Y6ZA98012	

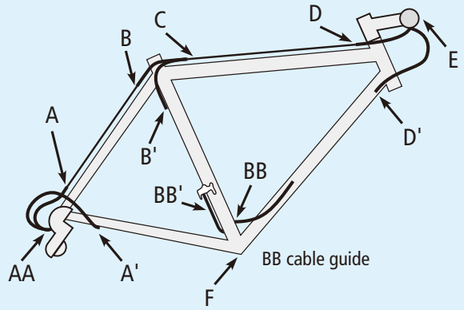
Brake outer cap

	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)	ULTEGRA (R8000)	ULTEGRA (6800)	SHIMANO 105 (R7000)	SHIMANO 105 (5800)	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-RS900 Black			Y0BM98011	10 pcs.	x		x		x						x	x	x
	Inner cable	2,100 mm 1 pc. 1,800 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			Y6Z298012	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			Y6Z298012	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			Y6Z298012	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	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			Y6Z298012	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			Y6Z298012	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			Y6Z298012	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			Y6Z298012	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			Y6Z298012	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	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		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		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
Black Silver	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
				Inner	34T	Y1RC34000
	FC-4703	Triple		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		Outer	46T for 11-speed	Y0K698010
				Inner	30T for 11-speed	Y0K630000
	FC-RX600-10	Double	10-speed	Outer	46T for 10-speed	Y0K798010
				Inner	30T for 10-speed	Y0K630000

Cyclocross

	Model no.	Front chainring type	Speed	Outer/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		Outer	38T	Y1X298010
	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

LIFESTYLE Chainrings

SHIMANO CUES

FC-U6000-1

Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
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	Single	11/10/9-speed	–	30T (P.C.D. 96 mm)	Y0R79801T
			–	32T (P.C.D. 96 mm)	Y0R79802T
FC-U6040-1/ FC-U6030-1/ FC-U6000-1			–	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	Double	10/9-speed	Outer	46T (P.C.D. 110 mm)	Y0RB98010
			Inner	30T (P.C.D. 80 mm)	Y0RB9801T
NEW FC-U6040-2/ FC-U6030-2			Outer	34T	Y0TS9802T
			Inner	32T	Y0TS9801T
NEW FC-U6030-2			Outer	50T	Y0TT98020
			Inner	46T	Y0TT98010
NEW FC-U6040-2			Outer	50T	Y0TS98020
			Inner	46T	Y0TS98010
FC-U6010-2	Double	11-speed	Outer	46T	Y0RA98010
			Inner	32T	Y0RA9801T

SHIMANO

Model no.	Front chainring 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

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

ZEE

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

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	ESMCRE61A8XL	
					Silver	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	ECRET600A8XL	
					Silver	ECRET600A8XS	
			44T	With double		ECRET600B4DG	Y0PX9802T
				With single		ECRET600B4SG	
				Without		ECRET600B4X	
		SM-CRE70-B	34T (53 mm chain line)	Without		ESMCRE70BA4X	Y0J434000
			34T (55 mm chain line)			ESMCRE70B55A4XL	
		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 SM-BB72-41B SM-BB71-41B BB-RS500-PB	Press-fit type	86.5 mm	SM-BB92-41B	ISMBB9241B
			SM-BB72-41B	ISMBB7241B
			SM-BB71-41B	ISMBB7141B
			BB-RS500-PB	EBBRS500PB

	Bottom bracket type	Bottom bracket shell width	Bottom bracket axle length	Series description	Model no.	Code no.
BB-R9100 68 mm (BSA) BB-R9100 70 mm (Italian) SM-BBR60	Thread type	68 mm (BSA)	–	DURA-ACE	BB-R9100	IBBR9100B
			–	ULTEGRA, SHIMANO 105	SM-BBR60	ISMBBR60B
			–	TIAGRA	BB-RS501	EBBRS501B
		70 mm (Italian)	–	DURA-ACE	BB-R9100	IBBR9100I
			–	ULTEGRA, SHIMANO 105	SM-BBR60	ISMBBR60I
			–	TIAGRA	BB-RS501	EBBRS501I
BB-7700 BB-7710 BB-ES300 BB-5500	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
			118.5 mm	SHIMANO 105	BB-5500	EBB5500B18
		70 mm (Italian)	109.5 mm	DURA-ACE	BB-7700	IBB7700I09N
			113 mm	SHIMANO	BB-ES300	EBBES300I13
			118 mm	SHIMANO (triple)	BB-ES300	EBBES300I18
			109.5 mm	SHIMANO 105	BB-5500	EBB5500I09
			118.5 mm	SHIMANO 105	BB-5500	EBB5500I18
	Square	68 mm (BSA)	107 mm	SHIMANO	BB-UN300	EBBUN300B07X
			110 mm	SHIMANO	BB-UN300	EBBUN300B10X
			113 mm	SHIMANO	BB-UN300	EBBUN300B13X
			115 mm	SHIMANO	BB-UN300	EBBUN300B15B
			118 mm	SHIMANO	BB-UN300	EBBUN300B18X
			122.5 mm	SHIMANO	BB-UN300	EBBUN300B22X
			127.5 mm	SHIMANO	BB-UN300	EBBUN300B27B

MTB/CITY bottom bracket

	Bottom bracket type	Bottom bracket shell width	Model no.	Code no.
SM-BB94-41A BB-MT800-PA BB-MT500-PA SM-BB71-41A BB-MT800-PC	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
		83 mm		SAINT	SM-BB80	ISMBB80D
				ZEE	SM-BB52	ESMBB52D
		68/73 mm			BB-MT501	EBBMT501B
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
			121 mm		BB-ES300	EBBES300C21
			121 mm	For E-type front derailleur	BB-ES300	EBBES300EC21
			126 mm		BB-ES300	EBBES300C26
			126 mm	For E-type front derailleur	BB-ES300	EBBES300EC26
	Square	68 mm	107 mm		BB-UN300	EBBUN300B07X
			110 mm		BB-UN300	EBBUN300B10X
			110 mm	For chaincase	BB-UN300	EBBUN300KB10X
			113 mm		BB-UN300	EBBUN300B13X
			115 mm		BB-UN300	EBBUN300B15B
			117.5 mm		BB-UN300	EBBUN300B17X
			117.5 mm	For chaincase	BB-UN300	EBBUN300KB17X
			118 mm		BB-UN300	EBBUN300B18X
			118 mm	For chaincase	BB-UN300	EBBUN300KB18B
			122.5 mm		BB-UN300	EBBUN300B22X
			122.5 mm (LL123)		BB-UN300	EBBUN300B23X
			122.5 mm (LL123)	For chaincase	BB-UN300	EBBUN300KB23XW
			122.5 mm (LL123)	For E-type front derailleur	BB-UN300	EBBUN300EB23X
			122.5 mm (D-NL)	For chaincase	BB-UN300	EBBUN300KB22X
			127.5 mm		BB-UN300	EBBUN300B27B
			127.5 mm	For chaincase	BB-UN300	EBBUN300KB27X
		73 mm	113 mm		BB-UN300	EBBUN300C13X
			118 mm		BB-UN300	EBBUN300C18X
			122.5 mm (D-NL)		BB-UN300	EBBUN300C22B
			122.5 mm (LL123)		BB-UN300	EBBUN300C23X

CHAINS

Chromizing Treatment Link Pin

Hollow Pin

E-BIKE RATED — 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

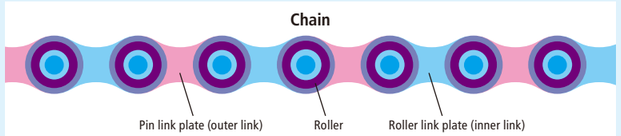
TL-CN29 and TL-CN35 : For 9-12 speed chain.
TL-CN28 and TL-CN34 : For 6-11 speed chain.

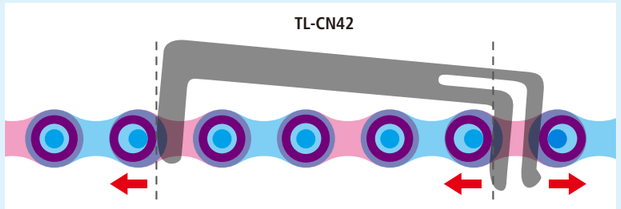
TL-CN28

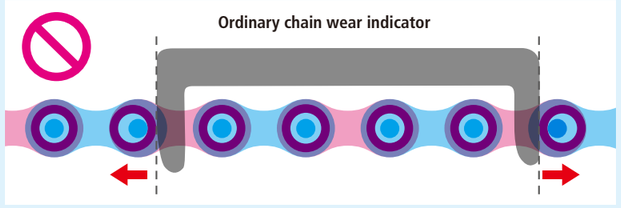
TL-CN35

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.

TL-CN42
Part number: Y12160000

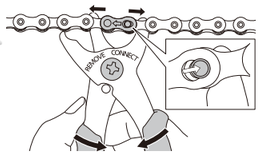
Enables precise and practical measurement

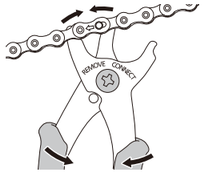
Pushes the rollers to one side in order to duplicate the position of rollers on gears during the actual drive of chain.

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	ULTIMATE	E-BIKE RATED	SIL-TEC	Chromizing	X	X	QUICK-LINK (SM-CN910-12)	242 g	ICNM9100116Q ICNM9100126Q ICNM9100138Q
		CN-M8100	ADVANCED	E-BIKE RATED	Gray	Chromizing	X	–	QUICK-LINK (SM-CN910-12)	252 g	ICNM8100116Q ICNM8100126Q ICNM8100138Q
		CN-M7100	ADVANCED	E-BIKE RATED	Gray	SIL-TEC	X	–	QUICK-LINK (SM-CN910-12)	252 g	ICNM7100116Q ICNM7100126Q ICNM7100138Q
		CN-M6100	ADVANCED	E-BIKE RATED	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	ADVANCED	E-BIKE RATED	SIL-TEC	Chromizing	X	–	QUICK-LINK (SM-CN900-11)	257 g	ICNE800011116Q ICNE800011126Q ICNE800011138Q
		CN-HG901-11	ULTIMATE	E-BIKE RATED	SIL-TEC	SIL-TEC	X	X	QUICK-LINK (SM-CN900-11)	247 g	ICNHG90111116Q ICNHG90111138Q
		CN-HG701-11	ADVANCED	E-BIKE RATED	SIL-TEC	SIL-TEC	X	–	QUICK-LINK (SM-CN900-11)	257 g	ICNHG70111116Q ICNHG70111126Q ICNHG70111138Q
		CN-HG601-11	ADVANCED	E-BIKE RATED	Gray	SIL-TEC	X	–	QUICK-LINK (SM-CN900-11)	257 g	ICNHG60111116Q ICNHG60111126Q ICNHG60111138Q
LG		CN-LG500		E-BIKE RATED	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	ADVANCED	E-BIKE RATED	SIL-TEC	SIL-TEC	X	–	Two Lines	276 g	ICNE609010118I ICNE609010126I ICNE609010138I
Double HG Directional		CN-6701	ADVANCED	E-BIKE RATED	Zinc-Alloy Plated	Gray	X	–	Two Lines	267 g	ICN6701116
		CN-4601	SELECT	E-BIKE RATED	Gray	Brown	X	–	Two Lines	277 g	ECN4601116
Triple HG		CN-6600	ADVANCED	E-BIKE RATED	Zinc-Alloy Plated	Gray	X	–	Two Lines	275 g	ICN6600116I
HG-X Directional		CN-HG95	ADVANCED	E-BIKE RATED	SIL-TEC	SIL-TEC	X	–	Two Lines	268 g	ICNHG95116I
		CN-HG54	ADVANCED	E-BIKE RATED	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	ADVANCED	E-BIKE RATED	Zinc-Alloy Plated	Gray	X	–	Silver color	299 g	ICNHG93116I
		CN-E6070-9	ADVANCED	E-BIKE RATED	Gray	Gray	X	–	Silver color	276 g	ICNE60709118I ICNE60709126I ICNE60709138I
		CN-HG53	SELECT	E-BIKE RATED	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	ADVANCED	E-BIKE RATED	Gray	Gray	X	–	QUICK-LINK (CN-UG51)	324 g	ECNHG71C116Q
		CN-HG71	ADVANCED	E-BIKE RATED	Gray	Gray	X	–	Black color	324 g	ECNHG71C116I ECNHG71C138I
		CN-HG40	SELECT	E-BIKE RATED	Gray	Brown	–	–	QUICK-LINK (CN-UG51)	324 g	ECNHG40116Q

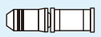
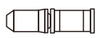
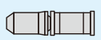
Internal hub gear & Single speed

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	SELECT	E-BIKE RATED	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	ISMCN91012A
				50 pairs (workshop jar)	ISMCN91012BS
	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	ISMCN90011A
				50 pairs (workshop jar)	ISMCN90011BS
	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

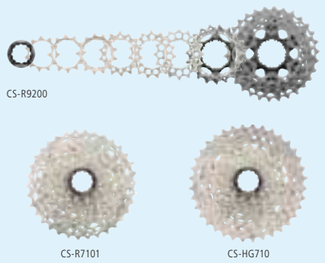
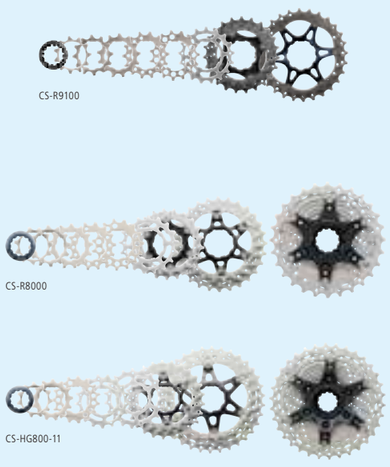
Weight-reducing spiders

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

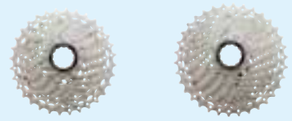
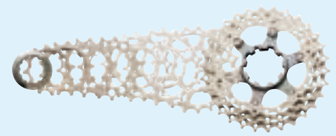
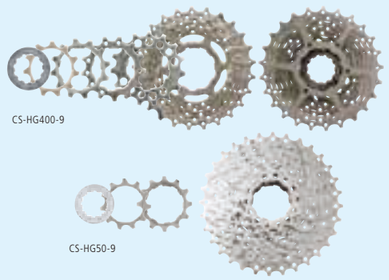
1 unit (set)

		Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
 CS-R9200 CS-R7101 CS-HG710	12-speed	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-R8000 CS-HG800-11	11-speed	CS-R9100	DURA-ACE	11-12-13-14-15-16-17-19-21-23-25T	HG-EV	HG spline L	175 g	ICSR910011125
				11-12-13-14-15-17-19-21-23-25-28T			193 g	ICSR910011128
				11-12-13-14-15-17-19-21-24-27-30T			211 g	ICSR910011130
				12-13-14-15-16-17-18-19-21-23-25T			189 g	ICSR910011225
				12-13-14-15-16-17-19-21-23-25-28T			205 g	ICSR910011228
		CS-R8000	ULTEGRA	11-12-13-14-15-16-17-19-21-23-25T	HG-EV	HG spline L	232 g	ICSR800011125
				11-12-13-14-15-17-19-21-23-25-28T			251 g	ICSR800011128
				11-12-13-14-15-17-19-21-24-27-30T			269 g	ICSR800011130
				11-12-13-14-16-18-20-22-25-28-32T			292 g	ICSR800011132
				12-13-14-15-16-17-18-19-21-23-25T			243 g	ICSR800011225
				14-15-16-17-18-19-20-21-23-25-28T			300 g	ICSR800011428
		CS-HG800-11		11-13-15-17-19-21-23-25-27-30-34T	HG-EV	HG spline M	335 g	ICSHG8001111134

Titanium gear

Cassettes road

1 unit (set)

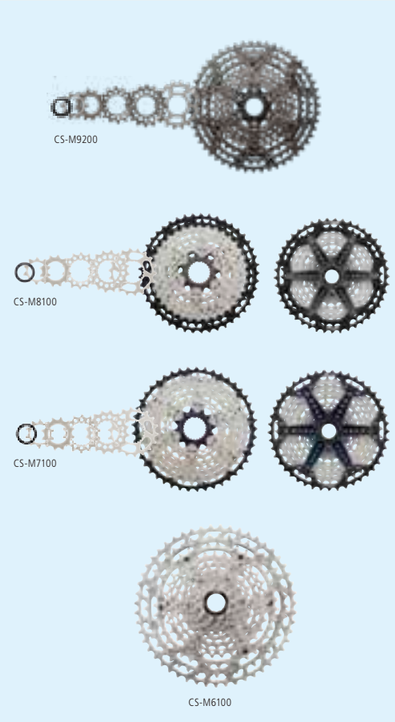
		Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
 CS-R7000 CS-HG700-11	11-speed	CS-R7000	SHIMANO 105	11-12-13-14-15-17-19-21-23-25-28T	HG-EV	HG spline L	284 g	ICSR700011128
				11-12-13-14-15-17-19-21-24-27-30T			304 g	ICSR700011130
				11-12-13-14-16-18-20-22-25-28-32T			320 g	ICSR700011132
				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	–	ICSHG50010125
				11-12-14-16-18-20-22-25-28-32T				ICSHG50010132
				11-13-15-17-19-21-23-26-30-34T				ICSHG50010134
				12-13-14-15-17-19-21-23-25-28T				ICSHG50010228
 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

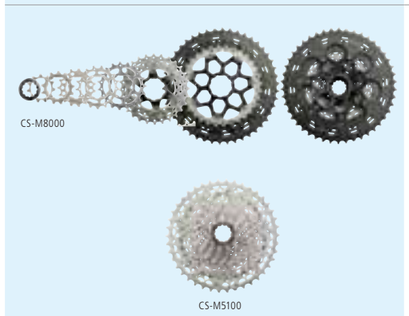
Cassettes MTB

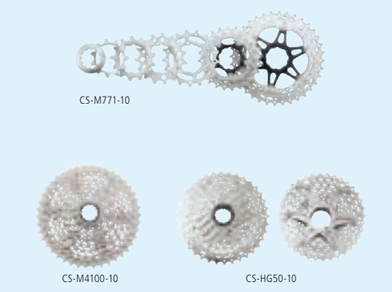
Cassettes MTB

1 unit (set)

	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
12-speed	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
11-speed	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
10-speed	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





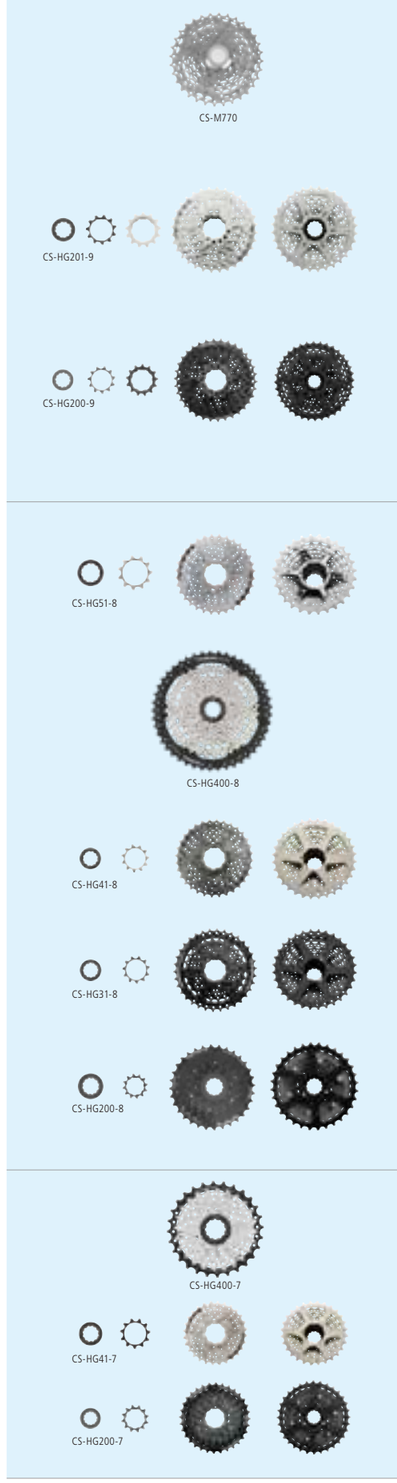


Titanium gear Aluminum gear

Cassettes MTB

1 unit (set)

	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
9-speed	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
8-speed	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
			11-13-15-17-20-23-26-34T			–	ECSHG418134
	CS-HG31-8	ALTUS	11-13-15-17-20-23-26-30T	HG	HG spline M	–	ECSHG318130
			11-13-15-18-21-24-28-32T			–	ECSHG318132
			11-13-15-17-20-23-26-34T			–	ECSHG318134
	CS-HG200-8	SHIMANO	12-14-16-18-21-24-28-32T	HG	HG spline M	–	ECSHG2008232T
	NEW CS-HG300-8	SHIMANO ESSA	11-13-15-18-22-27-35-45T	HG	HG spline M	–	ECSHG3008145
7-speed	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



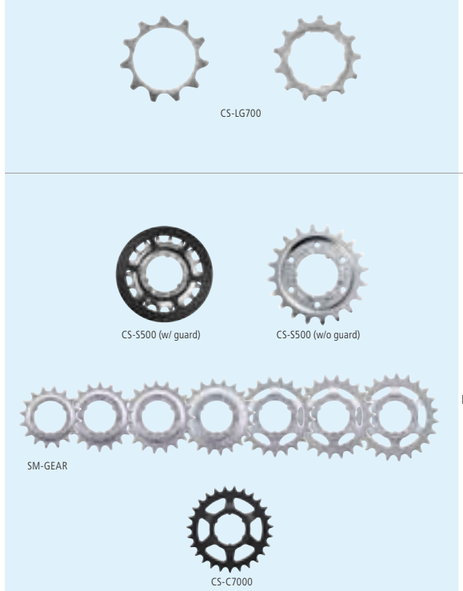
Multiple freewheel

1 unit (set)

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

Other sprockets and cogs

1 unit (set)



	Model no.	Series	Teeth	Code no.	Remark
CUES top 2 gears	CS-LG700	SHIMANO CUES	11T	Y0RF9801T	
			13T	Y0RF9802T	
			11T & 13T unit	Y0RF98020	
	CS-LG400/300		11T	Y0RG9801T	Used for CS-LG400
			13T	Y0RG9802T	Used for CS-LG400
			11T & 13T unit	Y0RG98020	Used for CS-LG400
Internal geared hub cog	CS-S500	ALFINE	18T	ICSS50018	
			18T (w/o guard)	ICSS50018X	
			20T	ICSS50020	
			20T (w/o guard)	ICSS50020X	
	SM-GEAR	NEXUS	16T	Y32203220	
			18T	Y32203420	
			19T	Y32203520	
			20T	Y32203620	
			21T	Y33060000	
			22T	Y33060100	
			23T	Y33060200	
	CS-C7000		24T	Y0FM24000	
			27T	Y0FM01000	
			30T	Y0FM30000	
Track cog	SS-7600	DURA-ACE Track	13T - 1/8″	Y27913100	
			14T - 1/8″	Y27914100	
			15T - 1/8″	Y27915100	
			16T - 1/8″	Y27916100	
			13T - 3/32″	Y27913000	
			14T - 3/32″	Y27914000	
			15T - 3/32″	Y27915000	
			16T - 3/32″	Y27916000	

Single freewheel

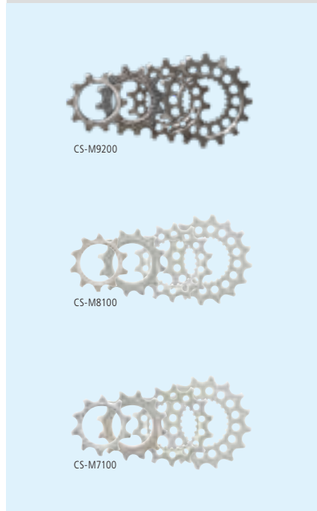
1 unit (set)

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

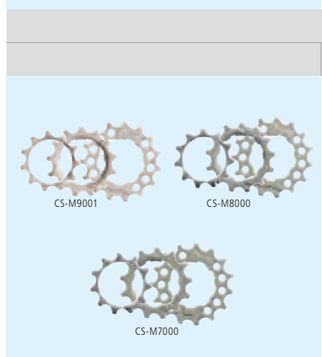
Top four gear-sprockets for 12-speed MTB cassettes

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

Sprockets MTB teeth (top gears)



	Speed	Model no.	Series	Teeth	Teeth (4 gears from top) 9T	11T	13T	15T
	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
					10T	12T	14T	16T
				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)
		CS-M9101-12	XTR	10-12-14-16-18-21-24-28-32-36-40-45T 10-12-14-16-18-21-24-28-33-39-45-51T	Y1X498030		Y1X414000	Y1X416000
		CS-M8100-12	DEORE XT		Y1X498020		Y0GX14000	Y0GX16000
		CS-M7100-12	SLX					
		CS-M6100-12	DEORE	10-12-14-16-18-21-24-28-33-39-45-51T				



	Speed	Model no.	Series	Teeth	Teeth (3 gears from top) 11T	13T	15T
	11-speed	CS-M9001	XTR	11-13-15-17-19-21-24-27-31-35-40T	Y1PU11000	Y1PU13000	Y1PU15000
		CS-M8000	DEORE XT	11-13-15-17-19-21-24-27-31-35-40T 11-13-15-17-19-21-24-28-32-37-42T 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	SHIMANO CUES	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
CS-LG400-9	9-speed	CS-LG400-9		11-13-15-17-20-23-28-36-46T	LINKGLIDE	HG spline M*	–	ECSLG4009146
		CS-LG400-9D		11-13-15-17-20-23-28-34-41T			–	ECSLG4009141
		CS-LG300-9		11-13-15-17-20-23-26-30-36T			–	ECSLG4009136
		CS-LG300-9		11-13-15-17-20-23-28-36-46T			–	ECSLG3009146
		CS-LG300-9D		11-13-15-17-20-23-28-34-41T			–	ECSLG3009141
				11-13-15-17-20-23-26-30-36T			–	ECSLG3009136

*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: Series	Product level: Model no.	x2	x1	x1	Code no.
RD-R9250	Pulley set	ULTIMATE	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	ADVANCED	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
		SELECT	SHIMANO 105	RD-R7150	–	–	–	Y3HY98010
				RD-R7100	–	X (Guide pulley only)	–	Y3JU98030
			SHIMANO 105, SLX, DEORE, METREA	RD-R7000/5800-GS/M7000-11/M6000-GS/U5000	–	–	–	Y5YE98090
RD-RX810	Pulley set	ADVANCED	GRX	RD-RX825/RX820	X	–	–	Y3JS98010
				RD-RX815/RX810	X	–	–	Y3GE98010
	Pulley set	ADVANCED	LG	RD-M8130-SGS	X	–	–	Y3J598010
	Pulley set	ADVANCED	ULTEGRA, DEORE XT, SAINT	RD-6770/6700-A/6700/6600/M772/M771/M770/M810-A/M810/T780	–	X (Tension pulley only)	X (Guide pulley only)	Y5X998150
		SELECT		RD-5800-SS/5701/5700-A/5700/4700/4601/4600/3500/3400/R2000/2400/R350/R350-10/RX400/M7000-10/M675/M670/M663/M662/M640/M6000-SGS/M615/M610/M601/M593/M592/M591/M4000/M430/M3000/M390/M370/M2000/T670/T661/T6000/T610/T4000/T3000/F800/CT-S500	–	–	–	Y5XH98120
RD-M9250	Pulley set	ULTIMATE	XTR	NEW RD-M9250-GS/M9250-SGS/M9260-12	X	–	–	Y3K798120
				NEW RD-M9260-11L	X	–	–	Y3K998020
RD-M9100	Pulley set			RD-M9100/M9120	X	–	–	Y3FA98090
				RD-M9000/M9050	X	–	–	Y5PV98160
	Pulley set	ADVANCED	DEORE XT, GRX	NEW RD-M8250-GS/M8250-SGS/M8260-12/RX827	X	–	–	Y3KA98030
RD-M8100	Pulley set	ADVANCED	DEORE XT	NEW RD-M8260-11L	X	–	–	Y3KC98020
				RD-M8100-SGS/M8120-SGS	X	–	–	Y3FW98010
				RD-M786/M781/M780/M773/T8000	X	–	–	Y5XF98130
RD-M7100	Pulley set	SELECT	SLX, DEORE	RD-M7100-SGS/M7120-SGS/M6100	–	–	–	Y3FY98010
			DEORE	RD-M5100	–	–	–	Y3HL98010
				RD-M5120/M4120	–	–	–	Y3HM98010
RD-U8000	Pulley set	ADVANCED	SHIMANO CUES	RD-U8050-11/U8050-10	–	–	–	Y3JB98010
				RD-U8000	X	–	–	Y3JD98080
				RD-U8020/U6020-11/U6020-10	–	X (Guide pulley only)	–	Y3JE98010
		SELECT		RD-U6070/U6050	–	–	–	Y3JB98010
				RD-U6000/U4000	–	–	–	Y3JF98010
				RD-U4020/U3020	–	–	–	Y3JK98010
	Pulley set	SELECT	SHIMANO ESSA	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.
Y3FA59000 Y3FW50000 Y3FY51000	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.
Y5ZS15000	DURA-ACE	FD-R9100	3	Y5ZS15000
		FD-9000	2	Y5NF19000
	ULTEGRA SHIMANO 105 GRX	FD-RX820/R8000/ R7000/5801/RX810/RX400	3	Y2BA12000
Y5NF19000	ULTEGRA	FD-6800	3	Y5P116000
	SHIMANO 105	FD-5800		
Y5YY00080	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
WH-R9100 WH-9000 WH-6800	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	Y28E98010	Series color
			Rear	130 mm	163 mm	Y3DZ98010	
					168 mm	Y3DZ98020	
	ULTEGRA	WH-6800	Front	100 mm	133 mm	Y49298010	Series color
			Rear	130 mm	163 mm	Y49398010	
WH-RS700 WH-RS500 WH-RS330 WH-RS300 WH-RS100 WH-RS81-C50 WH-RS610 WH-RS010	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	
WH-RX31 WH-RX010 WH-RX05	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	
WH-R501 WH-R501-30 WH-R500	SHIMANO	WH-R501/R501-A	Front	100 mm	129 mm	Y4SH98010	Black
					133 mm	Y4SK98100	
						Y4BG98210	Silver
			Rear	130 mm	163 mm	Y4SK98110	Black
					168 mm	Y4SK98120	
					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.
	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					
		SM-AX76-B	148 x 12 mm	177 mm			ESMAX56B
		SM-AX56-B					
	For Road/Urban	SM-AX720-100x12	100 x 12 mm	121 mm		–	ESMAX720F10012
		SM-AX720-142x12	142 x 12 mm	163 mm		–	ESMAX720R14212

BALL BEARING

Ball bearing for Wheel/FREEHUB/Front hub

Material	Ball size	Package QTY	Part no.	Wheel	FREEHUB	Front hub	Semi-bulk package (300 pcs.)
Steel	1/4″	18	Y00091310	WH-6700-R/WH-RS610-TL-R/WH-RS330-R/ WH-RS80-R/WH-RS61-TL-R/WH-RS31-R/ WH-RS300-R/WH-RS21-CL-R/WH-RS11-R/ WH-RS10(-A)-R/WH-RS100-R/WH-R501(-A)-R/ WH-RX010-R/WH-RX05-R/WH-U5000-R/ WH-MT500-CL-R/WH-MT65-66-68-R/ WH-MT55-R/WH-MT35-R/WH-MT15-R/ WH-RX010-R	FH-6700/FH-R7000/FH-5800/FH-5700/FH-4600/ FH-3500/FH-2400/FH-RS505/FH-RS400/ FH-RS300/FH-M7000/FH-M6000/FH-M675/ FH-M665/FH-M615/FH-M590-595/FH-M4050/ FH-M475/FH-M430-M435/FH-M3050/FH-T4000/ FH-T3000/FH-TX800/FH-T610/FH-T670-675/ FH-TX500-TX505/FH-UR600	–	Y13098620
	3/16″	20	Y00091210	WH-6700-F/WH-RS610-TL-F/WH-RS330-F/ WH-RS80-F/WH-RS61-TL-F/WH-RS31-F/ WH-RS300-F/WH-RS21-CL-F/WH-RS11-F/ WH-RS10(-A)-F/WH-RS100-F/WH-R501-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	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	Y4BB98030		–	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	Y4BR98130	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	–
Stainless	1/4″	18	Y00091370	–	FH-MT200-B/FH-TY500	HB-7710-R/HB-7600-R	–
	3/16″	22	Y00091270	WH-R9100/WH-9000/WH-7900/WH-7850/ WH-M988/WH-M985/WH-M980/WH-M975/ WH-M970	FH-9000/FH-7900/FH-7850/FH-M988/ FH-M985/FH-MX71	HB-7710-F/HB-7600-F	Y13098622

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

FREEWHEEL BODY

Freewheel body

	Speed	Spline type	Material	Series	Code no.	Wheel	FREEHUB
	ROAD 12-speed	HG spline L2	Aluminum	DURA-ACE	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	–
			Steel	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	–
					Y0FH98010	WH-RS370	–
					Y3G898030	WH-RS171	FH-RS470
	10/9/8-speed, MTB 11-speed	HG spline M	Steel	SHIMANO	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	–
	MTB 12-speed	MICRO SPLINE	Aluminum	XTR	NEW Y3KG98060	WH-M9220, WH-M9200	FH-M9210-B
				DEORE XT	NEW Y3KG98050	WH-M8200	FH-M8210-B
					Y0HE98010	WH-M8100, WH-M8120	–
			Steel	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						
			MTB		ROAD			SHIMANO CUES	All
Free unit type	Model	Photo	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		–	–	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-RS710, 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

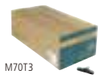
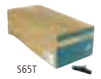
Internal assembly of internal geared hub

				Axle length (mm)				
	Speed	Series	Model no.	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)
	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	–	–
SG-C3001-7D	7-speed	7C	SG-C3001-7C	–	–	–	–	Y3EV98150 (176)
			SG-C3001-7C-DX	–	Y3EV98020	–	–	Y3EV98010 (176)
		7D	SG-C3001-7D	–	–	Y3EW98010	–	–
		7R	SG-C3001-7R	Y3ET98010	–	–	–	Y3ET98020 (201)
SG-C6001-8D	8-speed	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	ALFINE-11	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 R55C4 for carbon rim	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 S70C	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  S65T	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	B05S-RX			Cardboard box	25 pairs	EBPB05SRXBS
					Cardboard box	50 pairs	EBPB05SRXCS
		G05A-RX			Cardboard box	25 pairs	EBPG05ARXBS
					Cardboard box	50 pairs	EBPG05ARXCS
		G05S-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
		D03S-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 SLR brake outer casing Black M-System 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 cap with long tongue for polymer-coated inner cable Outer cap steel for shift/ brake cable	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 Outer cap resin sealed for SP40/41 Outer cap aluminum sealed for RD		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 Outer cap for ST-7900		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) Brake inner cable end cap (ø 1.6 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-RT64 SM-RT66	SM-RT54-M	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT54MXS
	SM-RT54-S	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT54SXS
	SM-RT64-M	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT64MXSC
	SM-RT64-S	W/O LOCK RING	Cardboard box	10 pcs.	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	ICNM7100126QSB20
						20 pcs./116Link	ICNM7100116QSB20
		CN-LG500 w/ QUICK-LINK		11-speed	Cardboard box	20 pcs./126Link	ICNLG500126QSB20
						20 pcs./116Link	ICNLG500116QSB20
		CN-HG601-11 w/ QUICK-LINK		11-speed	Cardboard box	20 pcs./126Link	ICNHG60111126QSB20
						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 Y13098621 Y13098622	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

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

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-LR11
Lock ring tool

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

TL-LR15
Lock ring tool (with guide pin)

Usage	For installation and removal of lock ring for rotors and 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-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.

Disc brake rotor fixing lock ring	Internally serrated type	Internally and externally serrated type*	Externally serrated type
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.

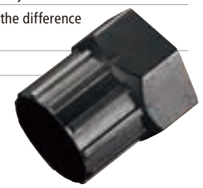
Cassettes/Multiple freewheel/Disc brake rotor

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.	Y1Z702000

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

1/2" x 1/8" 1/2" x 3/32"

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

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

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 2multi-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

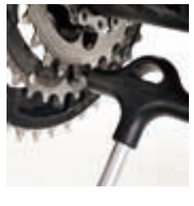
Usage	For installation and removal of HOLLOWTECH II/2-PIECE CRANKSET crank arm fixing bolt
USP	• Professional version of TL-FC16 • Chrome plated steel head for durability • Ergonomic handle makes it easier to loosen the firmly fixed crank arm fixing bolt
Remark	Be careful not to overtighten the crank 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

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

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

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

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 looses 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

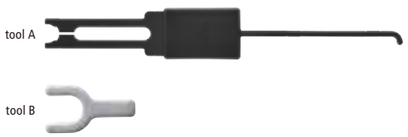
Usage	• Cut inner cable and outer casing • Reform the shape of outer casing end • Crimp the inner cable end cap
USP	• Substantially improved sharpness and durability from previous TL-CT11 • Decreased opening angle of the handles for better ergonomics • Needle for reshaping the inner liner of the outer 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 clasping power • Compact size for easy storage • Spare blade included • Hole to run string or wire for hanging
Code no.	Y13098570

Cutting hose Setting connector insert

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 spilling • Reliable and clean tube connection • Increased volume and smooth action • Compact and durable design
Code no.	Y13000080

TL-BR002
FUNNEL UNIT FOR ST

Usage	Bleeding of hydraulic disc brakes (M7*0.75)
USP	• Limits any form of oil spilling • 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 spilling • Increased volume • Durable material, long life time
Code no.	Y13000100

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

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

Hub

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

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

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

Usage	For assembly, disassembly and adjustment of hubs
USP	• 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

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

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

TL-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-AF20
Right hand cone installation tool

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

TL-S702
Right hand cone installation tool

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

TL-AF10
Right hand dust cap A installation tool

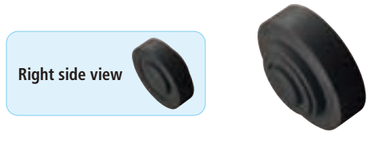
Usage	For installation of right hand dust cap A
USP	• Special tool to easily install/remove right hand dust cap A • Hardened steel for rigidity and durability
Compatibility	SG-S500/S501/S505/S700/S705/S7000/S7001/S7051
Code no.	Y32010000

TL-AF30
Left hand inner dust cap installation tool

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

TL-S704
Seal set tool

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



TL-8S30
Carrier unit gear alignment tool

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

TL-IM21
Brake inner cable fixing tool

Usage	• 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

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-BME01
Battery mount setting tool

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

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

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	ISMPCE02B
	EW-SD300	SM-PCE02 Micro USB cable PC link cable for SD300	ISMPCE02B2
	EW-SD50/ EW-SD300	SM-PCE02 Micro USB cable PC link cable for SD50 PC link cable for SD300	ISMPCE02B3

ISMPCE02B

ISMPCE02B2

ISMPCE02B3

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

TL-FC37 TL-FC34 TL-FC33 TL-LR10 TL-LR20 TL-UN66

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**
①②③ KIT	TL-BR001, TL-BR002, TL-BR003, 4 types of bleeding spacers	**Y13098630**
TL-BH62	Disc brake hose cut & set tool	**Y13098570**

2 Brake caliper

	Bolt length selector for rear	**Y8N221000**

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

ISMLVOIL01 KSMLVOIL10

Hydraulic Mineral Oil

Application	Refer to compatibility (p. 8)
Code no.	ISMDBOIL01O (100 ml) ISMDBOIL01M (100 ml) for EU ISMDBOIL05O (500 ml) ISMDBOIL05M (500 ml) for EU KSMDBOILO (1,000 ml) KSMDBOILM (1,000 ml) for EU

ISMDBOIL01M ISMDBOIL05O KSMDBOILO

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

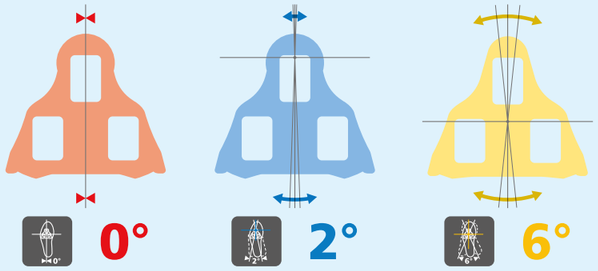
CLEATS

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. ESMSH45

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.

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

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

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. ESMSH41

NEW
SPD Cleat Pontoons
- Code no. ESMSHRX910MPOL01000

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)

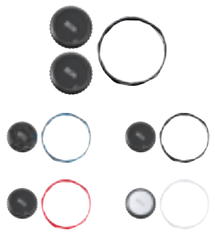
Category	Category	Model no.	Mode (icon)		Code no.
SM-SH10 SM-SH11 SM-SH12	SPD-SL	**SM-SH10**	Fixed	Fixed type	**ISMSH10**
	SPD-SL	**SM-SH11**	Float	6 degree float type	**ISMSH11**
	SPD-SL	**SM-SH12**	Front center pivoting	2 degree front center pivoting type	**ISMSH12**
SM-SH51	SPD	**SM-SH51 (with cleat 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**
SM-SH56	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 PD-M820 (SPD) PD-MX80	**PD-GR500**	YL8798010 (9 pcs) *Height adjusting spacers are included.		9
	PD-M820 (SPD)			4
	PD-MX80			9
PD-GR400	**PD-GR400**	YL8X98030		9
PD-M828 PD-M8140 Short Long	**PD-M828**	YL8A98010 (12 pcs)	YL8A98020 (12 pcs)	12
	PD-M8140			10
PD-T8000 PD-EH500 Short Long	**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
				46.5 - 48	ESMSHAM903MINL01480
	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
				49 - 50	ESMSHRC502MINL01500
	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
				48 - 50	ESMSHRC9INCF500
	DUAL DENSITY EXTRA-CUSHION INSOLE	SH-ME702		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

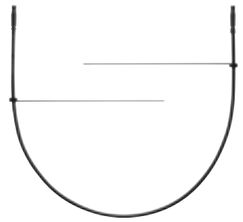
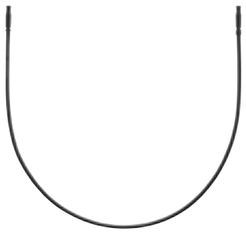
ACCESSORIES FOR ELECTRONIC PRODUCTS

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

DIGITAL INTEGRATED INTELLIGENCE

tube

Di2 E-TUBE wires

	Model no.	Series	Length	Description	Code no.
	EW-SD300-I	SHIMANO	150 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL015
			200 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL020
			250 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL025
			300 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL030
			350 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL035
			400 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL040
			500 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL050
			550 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL055
			600 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL060
			650 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL065
			700 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL070
			750 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL075
			800 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL080
			850 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL085
			900 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL090
			950 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL095
			1,000 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL100
			1,200 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL120
			1,400 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL140
			1,600 mm	2nd generation E-TUBE cable for Di2 (for built-in routing)	IEWSD300IL160
	EW-SD300	SHIMANO	150 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L015
			200 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L020
			250 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L025
			300 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L030
			350 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L035
			400 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L040
			500 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L050
			550 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L055
			600 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L060
			650 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L065
			700 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L070
			750 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L075
			800 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L080
			850 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L085
			900 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L090
			950 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L095
			1,000 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L100
			1,200 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L120
			1,400 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L140
			1,600 mm	2nd generation E-TUBE cable for Di2 (for external routing)	IEWSD300L160
	EW-SD50	SHIMANO	150 mm	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
 ISMEW90A ISMEW90B	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
 IEWCC300LA	EW-CC300		Cord fixing tape for EW-SD300: Black	IEWCC300LA
 IEWCC300WA			Cord fixing tape for EW-SD300: White	IEWCC300WA
 ISMEWC2L	SM-EWC2		Wire Covers: Black	ISMEWC2L
 ISMEWC2W			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	ISMPCE02B (SD50 type) ISMPCE02B2 (SD300 type) ISMPCE02B3 (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.
SHIMANO D-FLY Bluetooth		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-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/BL-RX825	GRX	Black	pair	Y0SL98020
	ST-RX820		Black	pair	Y0RY98010
	ST-RX610		Black	pair	Y0SN98010
	ST-RX810		Black	pair	Y0JK98010
	ST-RX815		Black	pair	Y0JM98010
	ST-5800	SHIMANO 105	Black	pair	Y00E98080
	ST-5700		Black	pair	Y6TH98120
	ST-5700		White	pair	Y6TH98130
	ST-4700	TIAGRA	Black	pair	Y00E98080
	ST-4703		Black	pair	Y00E98080
	ST-R3000	SORA	Black	pair	Y05T98010
	ST-R3030		Black	pair	Y05T98010
	ST-R2000	CLARIS	Black	pair	Y05T98010
	ST-R2030		Black	pair	Y05T98010
	ST-R785	SHIMANO	Black	pair	Y07T98080
	ST-RS505		Black	pair	Y03N98020
	ST-RS405		Black	pair	Y03N98020
	NEW ST-U6030	SHIMANO CUES	Black	pair	Y0TU98010
	NEW ST-U3030		Black	pair	
	NEW ST-U2030	SHIMANO ESSA	Black	pair	Y05T98010

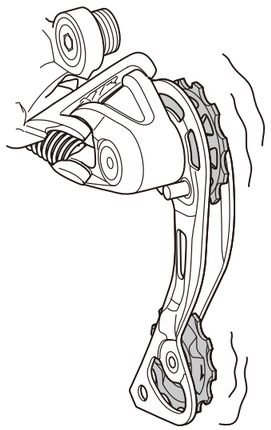
Service Tips

Replacement timing depends on the conditions you ride in, type of terrains, and riding style.

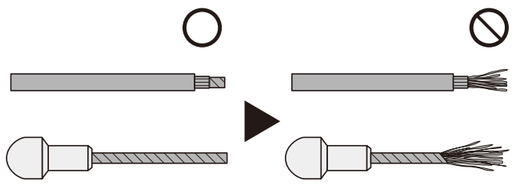
It is always better to replace parts before they are completely worn out.

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)

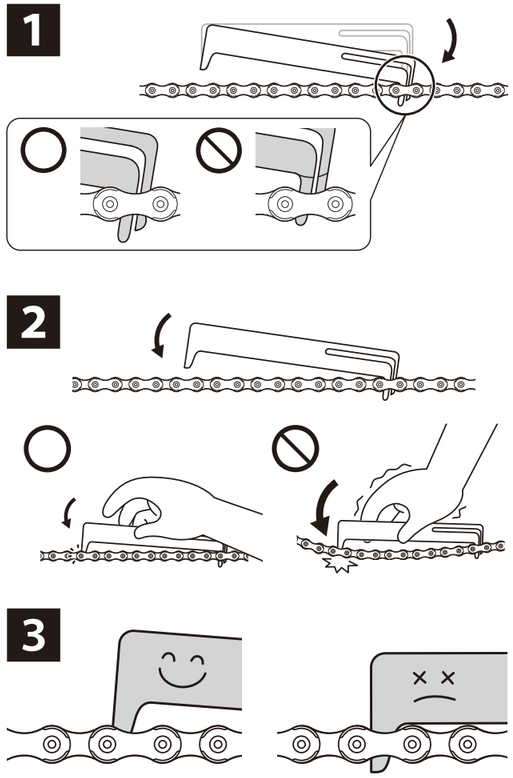


When?	• When there is an increase in cable friction, or the cables become damaged
What will happen if ignored	• Cable disconnection • Troubles with shifting, braking
Notes	• Preventive maintenance is necessary

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

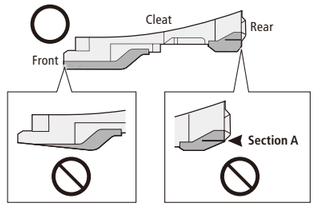
SHIMANO chain wear indicator allows you to check the chain wear accurately, easily and quickly.

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

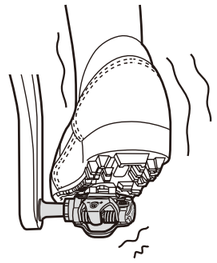
If the yellow (SM-SH11) or red (SM-SH10) or blue (SM-SH12) portions of the cleats become worn, replace the cleats with new ones.

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

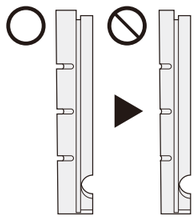
Cleats wear out over time and should be replaced periodically. Cleats should be replaced when it becomes difficult to release, or it starts to release with much less effort than the when it was in new condition.



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

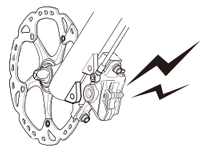
Please check the thickness of the brake pad for replacement periodically.

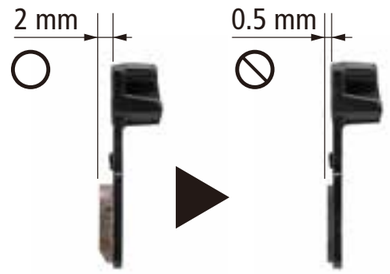
If the thickness is 0.5 mm or below at the thinnest point, the brake pad needs to be replaced with a new one.

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