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GENUINE PARTS CATALOGUE 2025

SHIMANO

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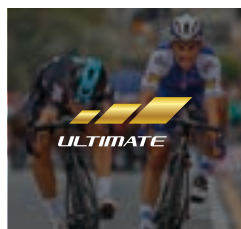
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SHIMANO

Benefits of SHIMANO Genuine Parts

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

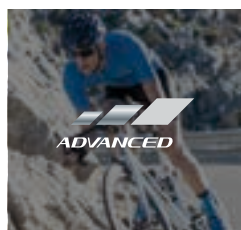
GRADES OF THE GENUINE PARTS



ULTIMATE

Leading-edge technology for the highest level of riding.

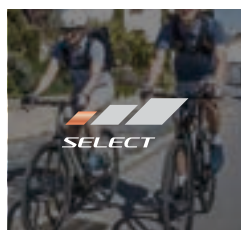
Advantage functions for a faster, smoother and practically stress-free ride. Ultimate performance is attained by taking advantage of the leading-edge technology.



ADVANCED

Advanced functions for serious riders.

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



SELECT

SHIMANO standard functions for smooth riding.

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

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BRAKE SYSTEM

Integrated braking system for maximum control and consistent performance.



ROAD MTB



DISC BRAKE PADS

Stopping power rating

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

Metal pads

More braking power and durability

Resin pads

Less noise and better modulation

Radiator fin

Provides long pad life and less fade by cooling technology

BIKE RATED

Improved resin material

- Consistently smooth and quiet braking operation
- Predictable braking power

Technical features for SHIMANO disc brake pad

Resin pad

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



New resin friction material

- Consistently smooth and quiet braking operation
- Predictable braking power

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



Metal pad

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

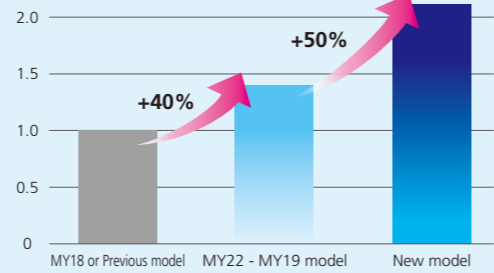


How to read model no.

① ② ③ ④ ⑤
L05A-RF

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

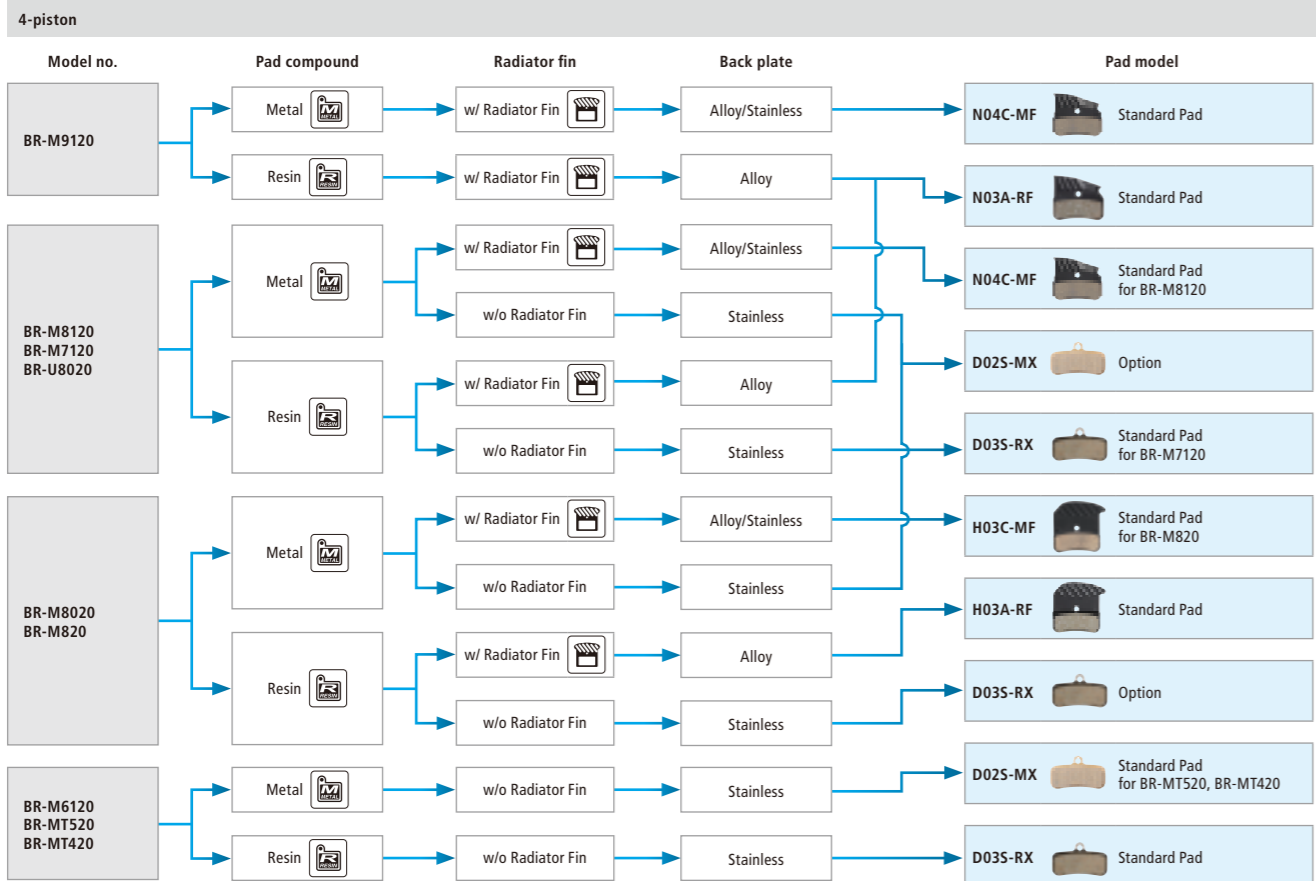
Pad life comparison



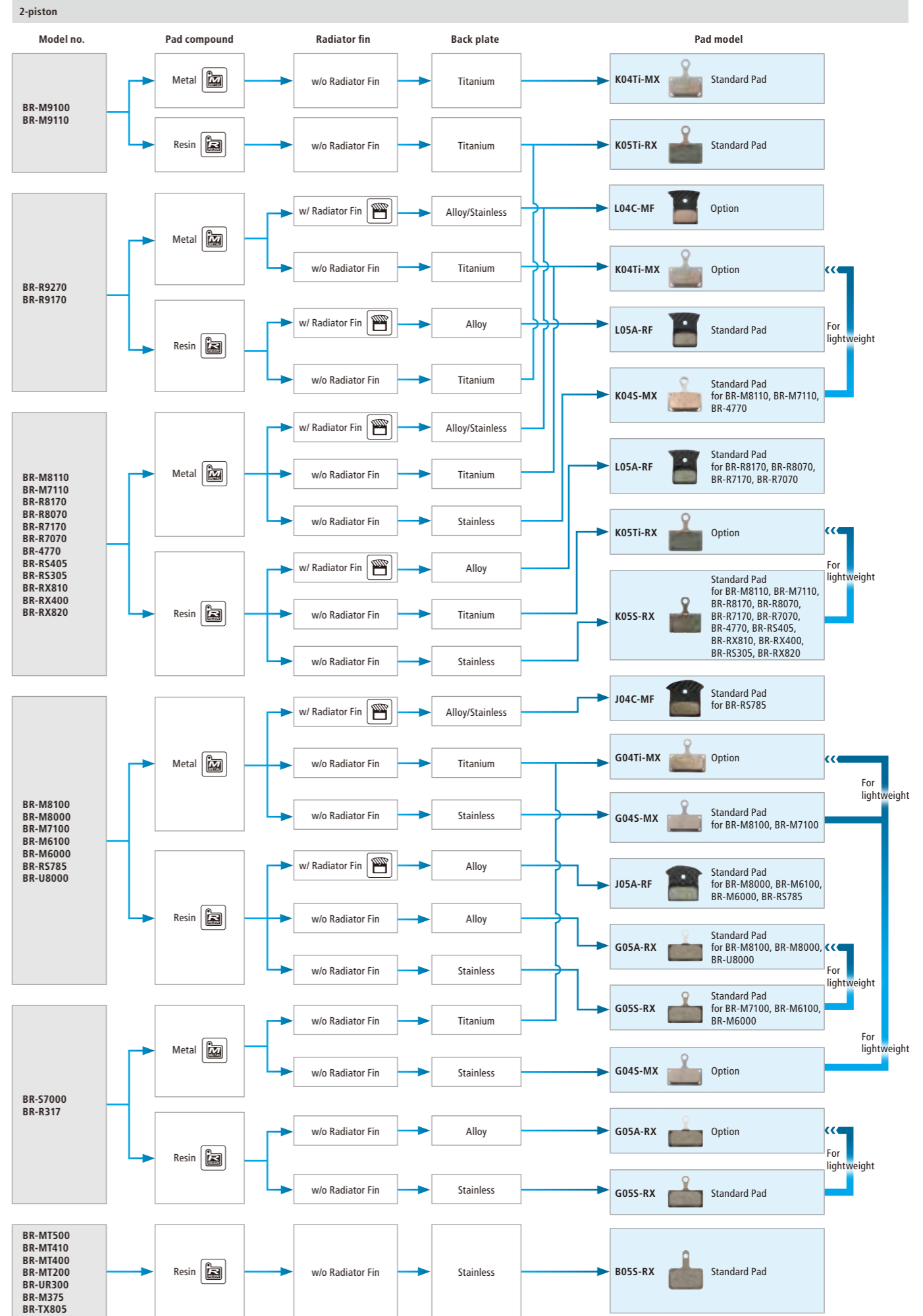
Resin disc brake pad

MY18 or Previous model	MY22 - MY19 model	New model
B01S	B03S	B05S-RX
G02A	G03A	G05A-RX
G02S	G03S	G05S-RX
J02A	J03A	J05A-RF
K02Ti	K03Ti	K05Ti-RX
K02S	K03S	K05S-RX
L02A	L03A	L05A-RF
D01S	D03S-RX	-
H01A	H03A-RF	-
-	N03A-RF	-

Disc brake pad selection chart



Disc brake pad selection chart



Pad characteristics

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

Disc brake pads

	E-Bike	Model no.	Pad type	Piston	Material			Series	Compatibility model	Remark	Code no. 1 pair	Code no. 25 pair	Code no. 50 pair
	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-M415, BR-M414, BR-M405, 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	EBP055SRXA	EBP055SRXBS	EBP055SRXCS
		G04Ti-MX	Narrow	2-Piston	Metal	-	*****	XTR, DEORE XT, SLX, ALFINE, SHIMANO	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-M6100, BR-M6000, BR-M615, BR-S7000, BR-S700, BR-CX77, BR-R5785, BR-R785, BR-R517, BR-R317, BR-U8000		IBPG04TIMXA	-	-
	G04S-MX	Metal			-	*****				IBPG04SMXA	-	-	
	G05A-RX	*Resin			-	****				EBPG05ARXA	EBPG05ARXBS	EBPG05ARXCS	
	G05S-RX	*Resin			-	****				EBPG05SRXA	EBPG05SRXBS	-	
		J04C-MF	Narrow	2-Piston	Metal	X	*****	XTR, DEORE XT, SLX, ALFINE, SHIMANO	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-M6100, BR-M6000, BR-M615, BR-S7000, BR-R5785, BR-R785, BR-U8000		IBPJ04CMFA	IBPJ04CMFBS	-
	J05A-RF	*Resin			X	****				EBPJ05ARFA	EBPJ05ARFBS	-	
		K04Ti-MX	Narrow	2-Piston	Metal	-	*****	XTR (M9100, M9110), DEORE XT, SLX, DURA-ACE, ULTEGRA, SHIMANO 105, TIAGRA, GRX, SHIMANO	BR-M9100, BR-M9110, BR-M8110, BR-R9270, BR-R8170, BR-R7170, BR-R9170, BR-R8070, BR-R7070, BR-R4770, BR-R5805, BR-R5505, BR-R5405, BR-R5305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		IBPK04TIMXA	-	-
	K04S-MX	Metal			-	*****				IBPK04SMXA	-	-	
	K05Ti-RX	*Resin			-	****				IBPK05TIRXA	-	-	
	K05S-RX	*Resin			-	****				EBPK05SRXA	-	-	
		L04C-MF	Narrow	2-Piston	Metal	X	*****	DEORE XT (M8110), SLX (M7110), DURA-ACE, ULTEGRA, SHIMANO 105, TIAGRA, GRX, SHIMANO	BR-M8110, BR-M7110, BR-R9270, BR-R8170, BR-R7170, BR-R9170, BR-R8070, BR-R7070, BR-R4770, BR-R5805, BR-R5505, BR-R5405, BR-R5305, BR-U5000, BR-RX810, BR-RX400, BR-RX820		IBPL04CMFA	-	-
	L05A-RF	*Resin			X	****				EBPL05ARFA	EBPL05ARFBS	-	
		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	-	-
	D03S-RX	Resin			-	****				EBPD03SRXA	EBPD03SRXBS	-	
		H03C-MF	Narrow	4-Piston	Metal	X	*****	DEORE XT, SAINT, ZEE	BR-M8020, BR-M820, BR-M640		IBPH03CMFA	-	-
	H03A-RF	Resin			X	****				EBPH03ARFA	-	-	
		N04C-MF	Narrow	4-Piston	Metal	X	*****	XTR, DEORE XT, SLX	BR-M9120, BR-M8120, BR-M7120, BR-U8020		IBPN04CMFA	-	-
	N03A-RF	Resin			X	****				EBPN03ARFA	-	-	
		M05-RX	Wide	2-Piston	Resin	-	****	SHIMANO	BR-C601, BR-M515, BR-M515LA		IBPM05RXA	-	-
		M04-RX	Narrow	2-Piston	Resin	-	****	DEORE XT	BR-M755		IBPM04RXA	-	-
		M06-MX	Narrow	2-Piston	Metal	-	*****	XTR, DEORE XT, SLX, DEORE	BR-M975, BR-M966, BR-M965, BR-M800, BR-M776, BR-M775, BR-M765, BR-M665, BR-M601, BR-M596, BR-M595, BR-M585, BR-M545, BR-M535, BR-R505, BR-T665, BR-T605		IBPM06MXA	-	-

*New resin: 50% durability up

DISC BRAKE ROTORS

BIKE DESIGN Rotors with built-in magnets for speed sensors (rear only)
A built-in magnet is used on rotors when the speed sensor is located near the rear dropout.

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



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

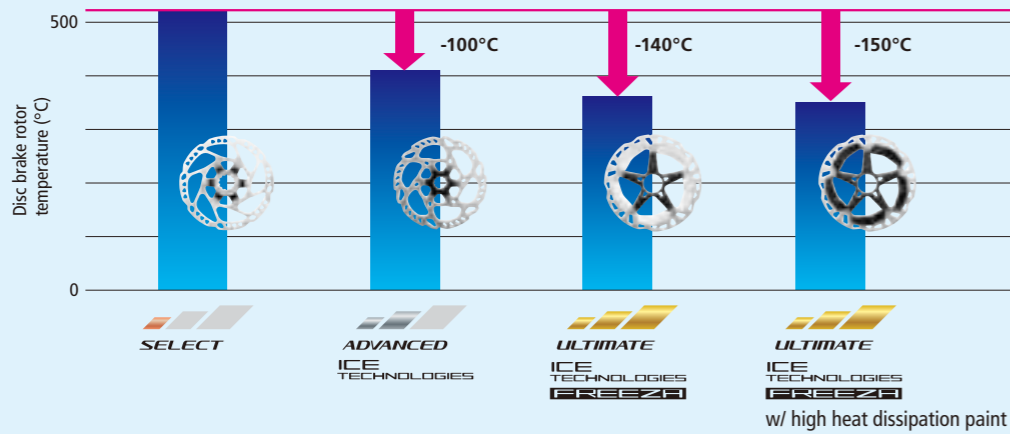
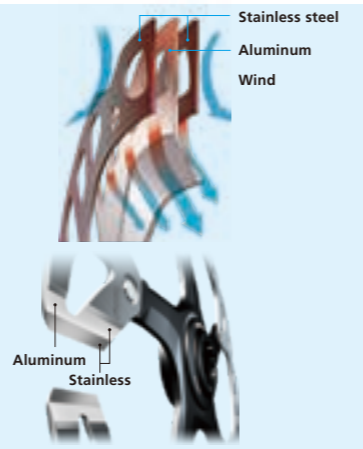
140°C reduction in heat
(vs. stainless steel disc brake rotor)

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



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

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



SHIMANO original testing conditions



Disc brake caliper and disc brake rotor compatibility C-461

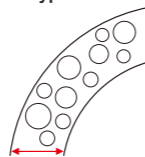
Brake caliper	Brake pad material	Pad type	Disc brake rotor							
			220 mm (LL)	203 mm (L)	180 mm (M)	160 mm (S)	140 mm (SS)			
BR-M9100*4 BR-M9110*5 BR-M9120 BR-M8100 BR-M8110*6 BR-M8120 BR-M8200 BR-M8020 BR-M7100	BR-M7110*6 BR-M7120 BR-M6100 BR-M6120 BR-MT520 BR-MT420 BR-M820 BR-U8000 BR-U8020	Metal/Resin Narrow	SM-RT66-LL SM-RT64-LL	RT-CL900-203 RT-CL800-203 RT-MT905-L RT-MT900-L SM-RT99-L SM-RT99-L RT-MT800-L SM-RT86-L SM-RT86-L SM-RT81-L SM-RT76-L SM-RT76-L	SM-RT70-L SM-RT66-L SM-RT64-L SM-RT30-L*2 RT-EM910-L*1 RT-EM910-L*1 RT-EM810-L*1 RT-EM810-L*1 SM-RT66-M SM-RT66-M	RT-CL900-180 RT-CL800-180 SM-RT905-M SM-RT900-M SM-RT99-M SM-RT99-M SM-RT86-M SM-RT86-M SM-RT81-M SM-RT76-M SM-RT76-M SM-RT66-M SM-RT66-M	SM-RT56-M*2 SM-RT54-M*2 SM-RT30-M*2 SM-RT26-M*2 SM-RT10-M*2 RT-EM910-M*1 RT-EM910-M*1 RT-EM810-M*1 RT-EM810-M*1 SM-RT66-M*1 SM-RT66-M*1 SM-RT66-M*1 SM-RT66-M*1	RT-CL900-160 RT-CL800-160 SM-RT905-S SM-RT900-S SM-RT99-S SM-RT99-S SM-RT86-S SM-RT86-S SM-RT81-S SM-RT76-S SM-RT76-S SM-RT66-S SM-RT66-S	SM-RTC60 SM-RT56-S*2 SM-RT54-S*2 SM-RT30-S*2 SM-RT26-S*2 SM-RT10-S*2 RT-EM910-M*1 RT-EM910-S*1 RT-EM810-M*1 RT-EM810-S*1 SM-RT66-S*1 SM-RT66-S*1 SM-RT66-S*1 SM-RT66-S*1	RT-CL900-140 RT-CL800-140 SM-RT905-SS SM-RT900-SS SM-RT99-SS SM-RT99-SS SM-RT86-SS SM-RT86-SS SM-RT81-SS SM-RT76-SS SM-RT76-SS SM-RT66-SS SM-RT66-SS
BR-S700 BR-MT410	BR-S7000 Resin Wide	- Wide	- SM-RT30-L	RT-EM300-L*1	-	SM-RT56-M SM-RT54-M SM-RT30-M SM-RT26-M SM-RT10-M RT-EM300-M*1	SM-RT56-S SM-RT54-S SM-RT30-S SM-RT26-S SM-RT10-S RT-EM300-S*1	-	-	
BR-T675 BR-T615 BR-M4050 BR-MT500 BR-M446 BR-MT400 BR-M3050	BR-M395 BR-M375 BR-MT200 BR-M365 BR-M315 BR-TX805 BR-UR300	Resin Wide	-	-	-	SM-RT56-M SM-RT54-M SM-RT30-M SM-RT26-M SM-RT10-M RT-EM300-M*1	SM-RT56-S SM-RT54-S SM-RT30-S SM-RT26-S SM-RT10-S RT-EM300-S*1	-	-	
BR-R9270*7 BR-R9170*3 BR-R8170 BR-R8070 BR-R7170 BR-R7070 BR-4770 BR-R5805 BR-R785	BR-R5785 BR-R5505 BR-R5405 BR-R5305 BR-RX820 BR-RX820-LE BR-RX810 BR-RX400	Metal/Resin Narrow	-	-	RT-CL900-180 RT-CL800-180 SM-RT905-M SM-RT900-M SM-RT99-M SM-RT99-M SM-RT86-M SM-RT86-M SM-RT81-M SM-RT76-M SM-RT76-M SM-RT66-M SM-RT66-M	SM-RT56-M*2 SM-RT54-M*2 SM-RT30-M*2 SM-RT26-M*2 SM-RT10-M*2 RT-EM910-M*1 RT-EM910-M*1 RT-EM810-M*1 RT-EM810-M*1 SM-RT66-M*1 SM-RT66-M*1 SM-RT66-M*1 SM-RT66-M*1	RT-CL900-160 RT-CL800-160 SM-RT905-S SM-RT900-S SM-RT99-S SM-RT99-S SM-RT86-S SM-RT86-S SM-RT81-S SM-RT76-S SM-RT76-S SM-RT66-S SM-RT66-S	SM-RT64-S SM-RT56-S*2 SM-RT54-S*2 SM-RT30-S*2 SM-RT26-S*2 SM-RT10-S*2 RT-EM910-M*1 RT-EM910-S*1 RT-EM810-M*1 RT-EM810-S*1 SM-RT66-S*1 SM-RT66-S*1 SM-RT66-S*1 SM-RT66-S*1	RT-CL900-140 RT-CL800-140 SM-RT905-SS SM-RT900-SS SM-RT99-SS SM-RT99-SS SM-RT86-SS SM-RT86-SS SM-RT81-SS SM-RT76-SS SM-RT76-SS SM-RT66-SS SM-RT66-SS	
BR-CX77 BR-R517 BR-R317	BR-R517 BR-R317	Metal/Resin Narrow	-	-	-	SM-RT99-S SM-RT86-S SM-RT81-S SM-RT76-S	SM-RT70-S SM-RT66-S SM-RT64-S	SM-RT99-SS SM-RT99-SS SM-RT99-SS SM-RT99-SS	SM-RT99-SS SM-RT99-SS SM-RT99-SS SM-RT99-SS	
BR-U5000*3	-	Metal/Resin Narrow	-	-	-	SM-RT99-S SM-RT86-S SM-RT81-S SM-RT76-S	SM-RT70-S SM-RT66-S SM-RT64-S	SM-RT500-SS SM-RT99-SS SM-RT99-SS SM-RT99-SS	SM-RT500-SS SM-RT99-SS SM-RT99-SS SM-RT99-SS	

*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.

NOTE

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

Wide type disc brake rotor



Narrow type disc brake rotor



Disc brake rotor

Mount	Model no.	Performance indicator	Technology	MTB	ROAD	E-Bike	Compatible brake pad		Disc brake rotor size	Lock ring	Lock ring spline type		Semi bulk (10 pcs.) Without lock ring for CENTER LOCK	5/6-Bolt				
							Metal	Resin			External	Internal						
CENTER LOCK	RT-CL900	ULTIMATE	ICE TECHNOLOGIES FREEZA	X	-	-	X	X	203 mm	X	IRTCL900LE	IRTCL900LI	-	-				
				X	-	-	X	X	180 mm	X	IRTCL900ME	IRTCL900MI	-	-				
				X	X	-	X	X	160 mm	X	IRTCL900SE	IRTCL900SI	-	-				
				X	X	-	X	X	140 mm	X	IRTCL900SSE	IRTCL900SSI	-	-				
	6-Bolt	RT-MT905	ULTIMATE	ICE TECHNOLOGIES FREEZA	-	-	-	X	X	203 mm	X	-	IRTCL900LJ	-	-			
					-	-	-	X	X	180 mm	X	-	IRTCL900MJ	-	-			
					-	-	-	X	X	160 mm	X	-	IRTCL900SJ	-	-			
					X	-	-	X	X	203 mm	X	-	-	-	IRTMT905L	-	-	
X	-	-	X	X	180 mm	X	-	-	-	IRTMT905M	-	-						
CENTER LOCK	RT-CL800	ULTIMATE	ICE TECHNOLOGIES FREEZA	X	-	-	X	X	203 mm	X	IRTCL800LE	IRTCL800LI	-	-				
				X	-	-	X	X	180 mm	X	IRTCL800ME	IRTCL800MI	-	-				
				X	X	-	X	X	160 mm	X	IRTCL800SE	IRTCL800SI	-	-				
				X	X	-	X	X	140 mm	X	IRTCL800SSE	IRTCL800SSI	-	-				
	6-Bolt	RT-MT800	ULTIMATE	ICE TECHNOLOGIES FREEZA	-	-	-	X	X	203 mm	X	-	IRTCL800LJ	-	-			
					-	-	-	X	X	180 mm	X	-	IRTCL800MJ	-	-			
					-	-	-	X	X	160 mm	X	-	IRTCL800SJ	-	-			
					X	-	-	X	X	203 mm	X	-	-	-	ISMRT70LE	ISMRT70L	-	-
CENTER LOCK	SM-RT70	ADVANCED	ICE TECHNOLOGIES	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	-	-	NEW ESMRT70SJ	-	-				
	6-Bolt	SM-RT500	SELECT	Standard	X	-	-	X	X	140 mm	-	-	ISMRT500SS	-	-			
					X	-	-	X	X	220 mm	-	ESMRT64LLEC	-	-	-	-		
					X	-	-	X	X	203 mm	-	ESMRT64LEC	ESMRT64LI3C	-	-	-		
					X	-	-	X	X	180 mm	-	ESMRT64MEC	ESMRT64MI3C	ESMRT64MXSC	-	-		
CENTER LOCK	SM-RT64	SELECT	Standard	X	X	-	X	X	160 mm	-	ESMRT64SEC	ESMRT64SI3C	ESMRT64SXSC	-	-			
				X	-	-	X	X	180 mm	-	ESMRT54ME	ESMRT54MI3	ESMRT54MXS	-	-			
				X	-	-	X	X	160 mm	-	ESMRT54SE	ESMRT54SI3	ESMRT54XS	-	-			
				X	-	-	X	X	203 mm	-	ESMRT30L2	-	-	-	-			
	6-Bolt	SM-RT30	SELECT	Standard	X	-	-	X	X	180 mm	-	ESMRT30M2	-	-	-			
					X	-	-	X	X	160 mm	-	ESMRT30S2	-	-	-	-		
					X	-	-	X	X	180 mm	-	ESMRT10M2	-	-	-	-		
					X	-	-	X	X	160 mm	-	ESMRT10S2	-	-	-	-		
6-Bolt	SM-RT86	ADVANCED	ICE TECHNOLOGIES	X	-	-	X	X	203 mm	-	-	-	-	ESMRT86L2	-	-		
				X	-	-	X	X	180 mm	-	-	-	-	-	ESMRT86M2	-	-	
				X	X	-	X	X	160 mm	-	-	-	-	-	ESMRT86S2	-	-	
				X	X	-	X	X	203 mm	-	-	-	-	-	ESMRT76L2	-	-	
	6-Bolt	SM-RT76	SELECT	Standard	X	-	-	X	X	180 mm	-	-	-	-	ESMRT76M2	-	-	
					X	X	-	X	X	160 mm	-	-	-	-	-	ESMRT76S2	-	-
					X	-	-	X	X	220 mm	-	-	-	-	-	ESMRT66LL	-	-
					X	-	-	X	X	203 mm	-	-	-	-	-	ESMRT66L	-	-
6-Bolt	SM-RT66	SELECT	Standard	X	-	-	X	X	180 mm	-	-	-	-	ESMRT66MS	ESMRT66M	-	-	
				X	-	-	X	X	160 mm	-	-	-	-	ESMRT66SS	ESMRT66S	-	-	
				X	-	-	X	X	180 mm	-	-	-	-	-	ESMRT56MC	-	-	
				X	-	-	X	X	160 mm	-	-	-	-	-	ESMRT56SC	-	-	
	6-Bolt	SM-RT56	SELECT	Standard	X	-	-	X	X	180 mm	-	-	-	-	ESMRT26MP	-	-	
					X	-	-	X	X	160 mm	-	-	-	-	-	ESMRT26SP	-	-
					X	-	-	X	X	180 mm	-	-	-	-	-	-	-	-
					X	-	-	X	X	160 mm	-	-	-	-	-	-	-	-
CENTER LOCK	RT-EM910	ULTIMATE	ICE TECHNOLOGIES FREEZA	-	-	-	X	X	203 mm	X	IRTEM910LE	IRTEM910LI	-	-				
				-	-	-	X	X	180 mm	X	IRTEM910ME	IRTEM910MI	-	-				
				-	-	-	X	X	160 mm	X	IRTEM910SE	IRTEM910SI	-	-				
				-	-	-	X	X	203 mm	X	IRTEM810LE	IRTEM810LI	-	-				
	6-Bolt	RT-EM810	ULTIMATE	ICE TECHNOLOGIES FREEZA	-	-	-	X	X	180 mm	X	IRTEM810ME	IRTEM810MI	-	-			
					-	-	-	X	X	160 mm	X	IRTEM810SE	IRTEM810SI	-	-			
					-	-	-	X	X	203 mm	-	ERTEM600LEC	Black: ERTEM600LI3C Silver: ERTEM600LIC	-	-			
					-	-	-	X	X	180 mm	-	ERTEM600MEC	Black: ERTEM600MI3C Silver: ERTEM600MIC	-	-			
6-Bolt	RT-EM600	SELECT	Standard	-	-	-	X	X	160 mm	-	ERTEM600SEC	Black: ERTEM600SI3C Silver: ERTEM600SIC	-	-				
				-	-	-	X	X	203 mm	-	ERTEM300L	ERTEM300L	-	-				
				-	-	-	X	X	180 mm	-	ERTEM300M	ERTEM300M	-	-				
				-	-	-	X	X	160 mm	-	ERTEM300S	ERTEM300S	-	-				
5-Bolts with 74 mm PCD	SM-RTC60	SELECT	Standard	-	-	-	X	X	160 mm	-	-	-	-	-	ESMRTC60S	-	-	

DISC BRAKE HOSE



Brake hose rigidity



ROAD MTB

Disc brake hose								
	Model no.	Series	Connection	Included parts		Note	Code no.	
	SM-BH90-SBLS *1	SAINT	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 Banjo screw x1 O-ring x3 Hose joint cover x1		*****	Black 1,000 mm	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		*****	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		*****	Black 1,000 mm	ISMBH90SBLSL100
							Black 1,700 mm	ISMBH90SBLSL170
							Black 2,000 mm	ISMBH90SBLSL200
	SM-BH90-SBM	XTR DEORE XT SLX	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 Banjo screw x1 O-ring x3 Hose joint cover x1		*****	Black 1,000 mm	ISMBH90SBML100
							Black 1,700 mm	ISMBH90SBML170
							Black 2,000 mm	ISMBH90SBML200
	SM-BH90-SBM	XTR (BR-M9120) DEORE XT (BR-M8100/M8120) SLX (BR-M7100/M7120)	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 O-ring x3		*****	Black 1,000 mm	ISMBH90SBMLL100A
							Black 1,700 mm	ISMBH90SBMLL170A
							Black 2,000 mm	ISMBH90SBMLL200A
	SM-BH90-SBM	XTR (BR-M9000) DEORE XT (BR-M8000) SLX (BR-M7000)	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 O-ring x3		*****	Black 1,000 mm	ISMBH90SBML100A
							Black 1,700 mm	ISMBH90SBML170A
							Black 2,000 mm	ISMBH90SBML200A
	SM-BH90-SB *3	XTR (M987,M985) DEORE XT ALFINE SLX	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH90 x1 Banjo screw x1 O-ring x3 Hose joint cover x1		*****	Black 1,000 mm	ISMBH90SBL100
							Black 1,700 mm	ISMBH90SBL170
							Black 2,000 mm	ISMBH90SBL200
	SM-BH90-JK-SSR	DURA-ACE ULTEGRA SHIMANO 105 TIAGRA GRX	Straight - Straight	Flare nut x2 Flange flare nut x1 Olive x2 Connector insert for SM-BH90 x2		*****	Black 1,000 mm	ISMBH90JKSSL100
							Black 1,700 mm	ISMBH90JKSSL170
	SM-BH90-SS	XTR (BR-M9100,M9110) DEORE XT (M8110) SLX (M7110) DEORE DEORE LX BR-MT520	Straight - Straight	Flare nut x2 Olive x2 Connector insert for SM-BH90 x2		*****	Black 1,000 mm	ESMBH90SSL100
							Black 1,700 mm	ESMBH90SSL170
							Black 2,000 mm	ESMBH90SSL200
	SM-BH59-SB *3	SHIMANO BR-R785	Straight - Banjo	Flare nut x1 Olive x1 Connector insert for SM-BH59 x1 Banjo screw x1 O-ring x3		***	Black 1,000 mm	ISMBH59SBL100
							Black 1,700 mm	ISMBH59SBL170
	SM-BH59-JK-SS	SHIMANO MTB	Straight - Straight	Flare nut x2 Olive x2 Connector insert for SM-BH59 x2		***	Black 1,000 mm	ESMBH59JKL100
							Black 1,700 mm	ESMBH59JKL170
							Black 2,000 mm	ESMBH59JKL200
	SM-BH59-JK-SS	SHIMANO ROAD	Straight - Straight	Flare nut x2 Olive x2 Connector insert for SM-BH59 x2		***	Black 1,000 mm	ISMBH59JKSSL100
							Black 1,700 mm	ISMBH59JKSSL170

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

DISC BRAKE PAD & BLEED SPACER

Pad spacer	
Code no.	Model no.
Y8J709000	BR-M9000, BR-M9020, BR-M987, BR-M985, BR-M8100, BR-M8000, BR-M785, BR-M7100, BR-M7000, BR-M675, BR-M666, BR-R5785, 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-M8110, BR-M7110, BR-R9170, BR-R8070, BR-R7070, BR-4770, BR-RX810, BR-RX400, BR-RS805, BR-RS505, BR-U5000, BR-RX820
Y1Y003000	BR-M8120, BR-M7120, BR-M6120, BR-MT520, BR-MT420, BR-U8020







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-R5785, BR-R785, BR-S700
Y8FZ05000	BR-M575, BR-M486, BR-M485, BR-M447, BR-M446, BR-M445, BR-M4050, 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-U5000
Y2HW15000	BR-R9270, BR-R8170, BR-R7170


DISC BRAKE MOUNT ADAPTER




For postmount caliper



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





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

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

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

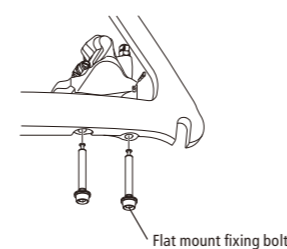
Lock ring for 15 mm E-THRU/20 mm thru		
Remark	Code no.	
	Y26L98030	
	Y24698030	
	Y8JX98020	

For flat mount caliper								
Performance indicator	Fork and frame mount style		Disc brake rotor size					
			140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)	220 mm (LL)	
		Rear	140 mm direct	Direct mount	ISMMAR160PDA	-	-	-

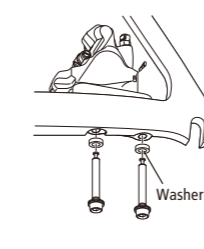
Converter for flat frame and postmount caliper								
Performance indicator	Fork and frame mount style		Disc brake rotor size					
			140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)		
		Front	140 mm flat mount	ISMMAF140PDA	ISMMAF160PDA	-	-	-
		Rear	140 mm flat mount	ISMMAR140PDH	ISMMAR160PDH	-	-	-

Mounting flat mount type brake caliper on the bicycle frame

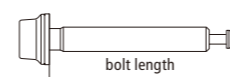
In case of using 140 mm disc brake rotor for rear disc brake



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



Flat mount fixing bolt length (mm)



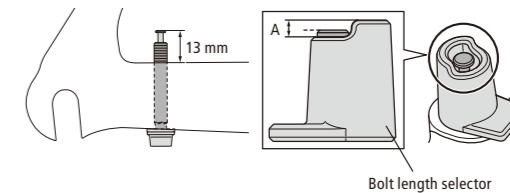
Fixing bolt for flat mount			
Frame thickness	Bolt length	Unit (pcs)	Code no.
10 mm	23 mm	1	Y8N208000*2
15 mm	28 mm	1	Y8N208050*2
20 mm	33 mm	1	Y8N208010*2
25 mm	38 mm	1	Y8N208020*1
30 mm	43 mm	1	Y8N208030*2
35 mm	48 mm	1	Y8N208040*2

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

*1 Included in flat mount type brake caliper

*2 Not included in brake caliper

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



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

Note:

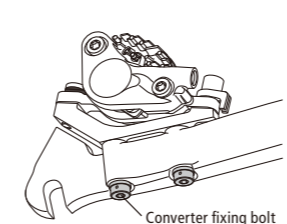
- When using a bolt length selector, make sure that the tip of the bolt fits within range A.
- When checking the length of the bolt, do not use a washer.
- The same bolts are used whether attaching the caliper directly to the frame or using the 140 to 160 mount adapter.



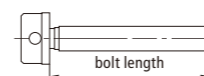
Including rear caliper

Bolt length selector	
Code no.	Description
Y8N221000	Bolt length selector

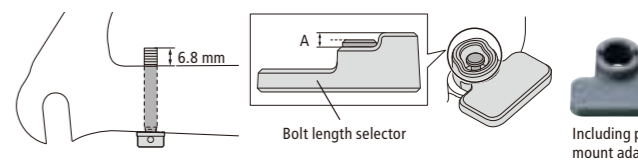
Mounting post mount type brake caliper with flat mount converter on the bicycle frame



Converter fixing bolt length (mm)



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



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

Note:

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

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

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

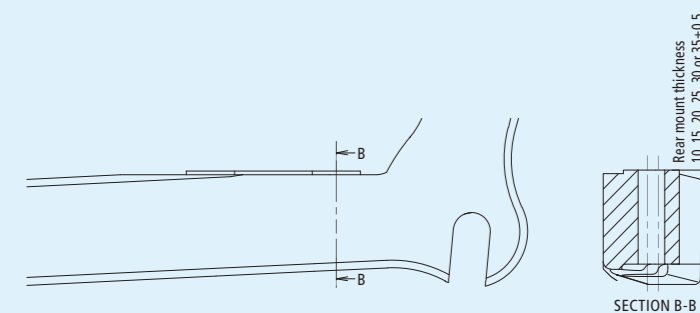
*1 Included in mount converter SM-MA-R140P/D (ISMMAR140PDH), SM-MA-R160P/D (ISMMAR160PDH)

*2 Not included in mount converter


Service Tips

Rear mount thickness


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




BRAKE SHOES




For caliper brake
Caliper brake shoes




For direct mount brake
Caliper brake shoes




For V-BRAKE
V-BRAKE shoes




For cantilever brake
Cantilever brake shoes




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




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

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






Brake shoes for cartridge type

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

Brake shoes




Image	Model no.	Series	Icon								Compatibility model	Remark	Unit (pair)	Code no.
			Direct	Caliper	V-BRAKE	Carbon	Ceramic	Soft compound	Aluminum	Machined				
	BR-6403		X	-	-	X	-	-	-	-	BR-6403, BR-4400, BR-3300, BR-1055, BR-A550, BR-A450, BR-A416, BR-A410, BR-A350, BR-A250		5	Y83G98010
	R50T2 (BR-4600)	TIAGRA SORA	X	-	-	X	-	-	-	-	BR-4600, BR-4500, BR-3500, BR-3400, BR-2400, BR-R451, BR-R450		5	Y8JY98070
	M50T		X	-	-	X	-	-	-	-	BR-4400, BR-3300, BR-1055, BR-A550, BR-A450, BR-A416, BR-A410, BR-A350, BR-A250		10	Y88C98100
	R50T2 (BR-CX50)		-	-	X	X	-	-	-	-	BR-CX50	(L) Bolts & Washers (M) Bolts & Washers (S) Bolts & Washers	1	Y8K598020 Y8K598030 Y8K598040
	R50T4	TIAGRA SORA	X	-	-	-	X	-	-	-	BR-4700, BR-4600, BR-4500, BR-R3500, BR-3400, BR-3000, BR-R2000, BR-2400, BR-R451, BR-R450		5	Y8L998010
	R50T5		X	-	-	X	-	-	-	-	BR-4700, BR-4600, BR-4500, BR-R3500, BR-3400, BR-3000, BR-R2000, BR-2400, BR-R451, BR-R450		5	Y8MG98090

Brake shoes

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

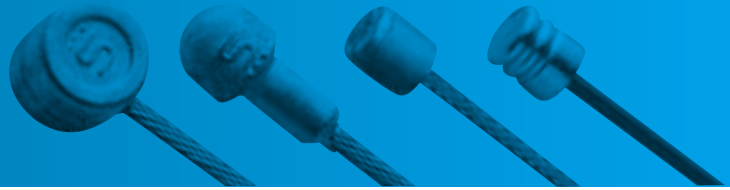
DIAPHRAGM

Diaphragm

	Model no.	Diaphragm	Cap	Fixing screw	Diaphragm unit
 BL-M9100	BL-M9100	Y8WM9801T	Y1XJ9801T	Y8SZ07000	Y1XJ98030
	BL-M9120	Y1XK9801T	Y1XJ9801T	Y8SZ07000	Y1XK98030
	BL-M8100				
	BL-M7100	Y1XK9801T	Y1XJ9801T	Y88414000	Y2HS98010
	BL-T8100				
BL-T8100-LE					
 BL-M820-B	BL-M820-B	Y8V39801T	Y8V39802T	Y8SZ07000	Y8V398050
	BL-M8000	Y8V39801T	Y8MX9801T	Y8SZ07000	-
	BL-M6100	Y8RM9801T	Y1XW9802T	Y1XW9803T	Y2GR98020
	BL-M4100				
	BL-MT401-3A				
BL-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



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



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



Mud resistance
Sealed end caps to minimize mud contamination



Shifter cable end



MTB brake cable end



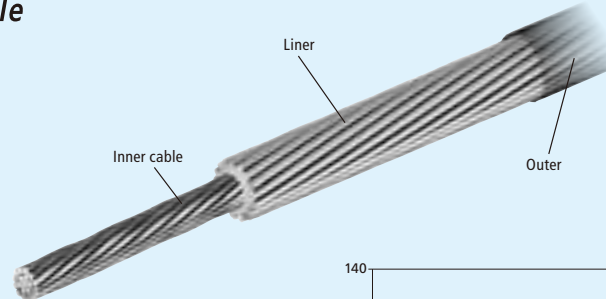
Road brake cable end



Polymer Coated Cable

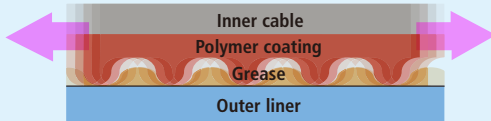
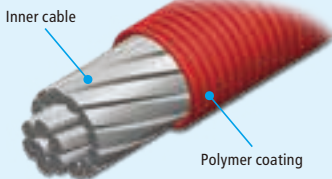
Leading-edge technology for the highest level of riding

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

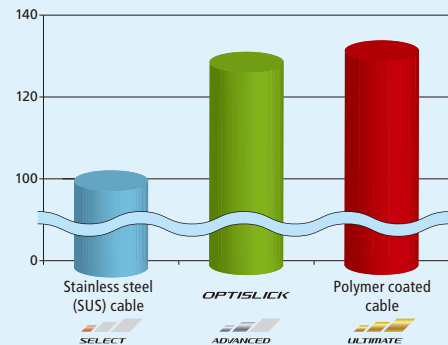


Recommended for internal cable routing

Polymer coated cable



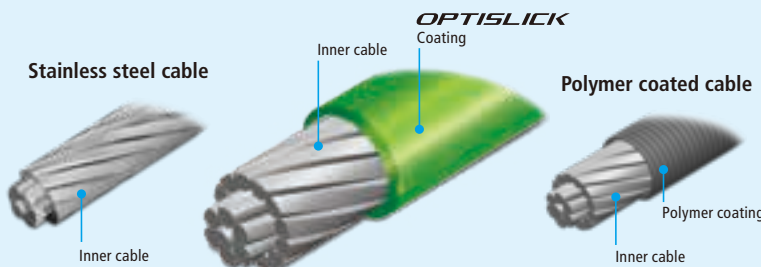
Efficiency comparison bar graph (Stainless steel (SUS)=100)



OPTISLICK

Advanced functions for the serious riding

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



Recommended for internal cable routing



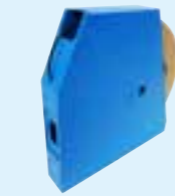
SHIMANO cable dispensers

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

Cable dispenser with roll

The products below are available for cable dispensers.

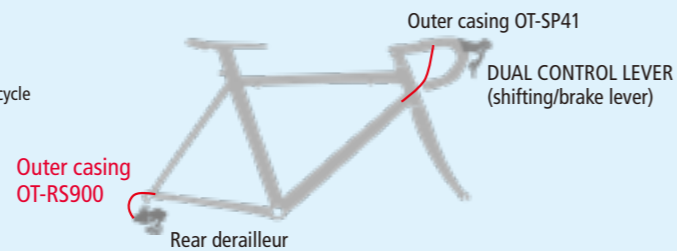
Shift cable	Product	Color	With brown outer box		Without brown outer box	
			Code	Part no.	Code	Part no.
	OT-SP41	Black 50 m	Y60098580		Y6009858A	
	BC-9000	Black 40 m	Y8YZA0489		Y8YZA048B	
Brake Cable	SLR	Black 40 m	Y80900011		Y8090001A	
	M-SYSTEM	Black 40 m	Y80900013		Y8090001B	



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

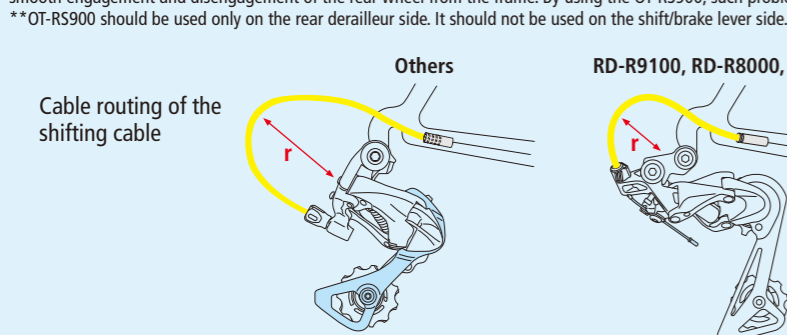
OT-RS900

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



Purpose of OT-RS900

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



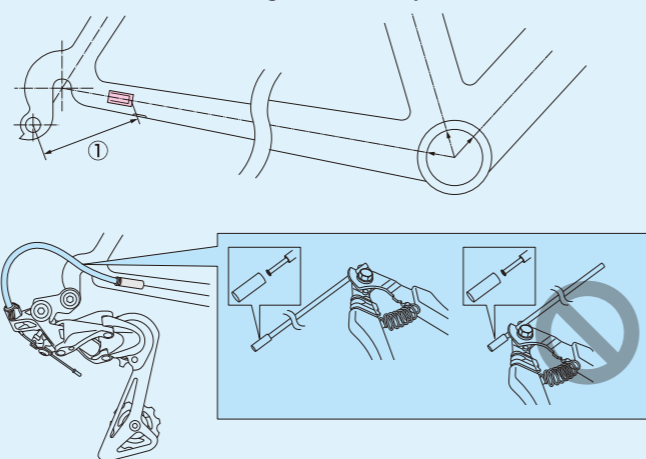
The OT-RS900 and OT-SP41 can be distinguished by the logo on the outside.



Assembly of OT-RS900

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

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

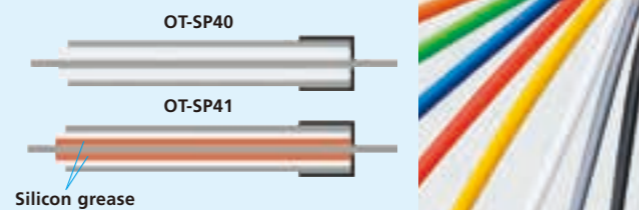


Outer casing length (mm)	Outer casing	Dimension ①						
		40 mm	50 mm	60 mm	80 mm	100 mm	125 mm	150 mm
	OT-RS900	110	130	150	170	200	220	240

OT-SP41

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

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



Road/MTB shifting inner cables

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

Road shifting cable sets

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

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

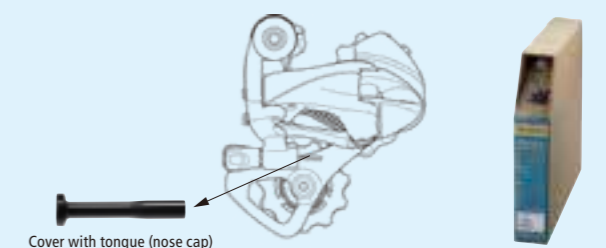
OT-SP41 polymer coated shifting cable sets





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





Service Tips



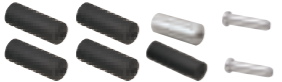

Cover with tongue (nose cap)





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







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





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





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





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





MTB shifting cable sets


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

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

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

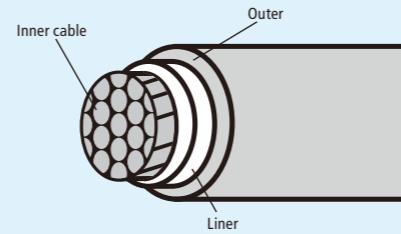
OT-SP41 Polymer coated shifting cable sets for single chainring bikes						
Inner cable	Performance indicator	Small parts	Outer casing	Icon	Color	Code no.
<ul style="list-style-type: none"> • ø 1.2 mm x 2,100 mm • Polymer coating • Stainless steel 		<ul style="list-style-type: none"> • Sealed outer caps,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

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

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

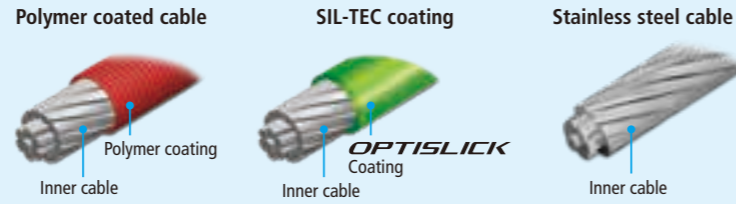
Brake outer casing types:

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



Brake inner cable types:

- Polymer coated brake inner cable**
Leading-edge technology for the highest level of riding
- SIL-TEC coated brake inner cable**
Advanced functions for the serious riding
- Stainless steel brake inner cable**
SHIMANO standard functions for the smooth riding



Road/MTB brake inner cables

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

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

Road/MTB brake inner cables						
	Performance indicator	Product name	Icon	Description	Unit	Code no.
		Double-End steel brake inner cable (diameter 1.6 mm x 2,050 mm)		<ul style="list-style-type: none"> ø 1.6 mm x 2,050 mm Double-end steel, incl. inner end cap 	1	Y80098411
		Double-End steel brake inner cable (diameter 1.6 mm x 2,050 mm/10-pack)		<ul style="list-style-type: none"> 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.
<ul style="list-style-type: none"> ø 1.6 mm x 1,000 mm (1 pc.) ø 1.6 mm x 2,000 mm (1 pc.) Polymer coating Stainless steel 		<ul style="list-style-type: none"> Outer cap with tongue for BC-9000 (2 pcs.) Inner end cap (2 pcs.) 	<ul style="list-style-type: none"> BC-9000 brake outer casing 1,800 mm (1 pc.) 800 mm (1 pc.) 		<ul style="list-style-type: none"> Black White Red High-tech gray Blue Yellow Lime green Orange 	<ul style="list-style-type: none"> Y8YZ98010 Y8YZ98020 Y8YZ98030 Y8YZ98040 Y8YZ98091 Y8YZ98092 Y8YZ98090 Y8YZ98080

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

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



MTB brake cable sets


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



Road/MTB brake cable sets


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

Accessories

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

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

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

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















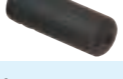


The entire length of the inner liner of SP41 shift housing is pre-lubricated with special grease. The BC-9000 and BC-R680 brake housing is pre-lubricated as well.


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
			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		Y87Z98110	-	-
	Steel	Outer cap steel for shift/brake cable	5	100		Y60B98010	200	Y60B98011

DRIVE SYSTEM

Intrinsically designed for supreme efficiency.



CHAINRINGS



ROAD MTB

Road Chainrings

DURA-ACE						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-R9200 FC-R9200-P	Double	12-speed	Outer	54T	Y0MZ98030
				Outer	52T	Y0MZ98020
				Outer	50T	Y0MZ98010
				Outer	NEW 46T	Y0MZ98110
				Inner	40T	Y0MZ40000
				Inner	36T	Y0MZ36000
				Inner	34T	Y0MZ34000
	NEW 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	54T	Y1VP98040				
Outer	53T	Y1VP98030				
Outer	52T	Y1VP98020				
Outer	50T	Y1VP98010				
Inner	42T	Y1VP42000				
Inner	39T	Y1VP39000				
	FC-9000	Double	11-speed	Inner	36T	Y1VP36000
				Inner	34T	Y1VP34000
				Outer	55T	Y1N298140
				Outer	54T	Y1N298130
				Outer	53T	Y1N298090
				Outer	52T for 52-38T	Y1N298120
				Outer	52T for 52-36T	Y1N298110
				Outer	50T	Y1N298080
				Inner	42T	Y1N242000
				Inner	39T	Y1N239000
				Inner	38T	Y1N238000
Inner	36T	Y1N236000				
Inner	34T	Y1N234000				

ULTEGRA						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-R8100 FC-R8100P	Double	12-speed	Outer	52T	Y0NG98020
				Outer	50T	Y0NG98010
				Outer	NEW 46T	Y0MZ98110
				Inner	36T	Y0NG36000
				Inner	34T	Y0NG34000
	NEW FC-08	Double	11-speed	Outer	52T	Y0V398070
				Outer	50T	Y0V398060
				Outer	46T	Y0V398050
				Inner	36T	Y0NG36000
				Inner	34T	Y0NG34000
	FC-R8000	Double	11-speed	Outer	53T	Y1W898040
				Outer	52T	Y1W898030
				Outer	50T	Y1W898020
				Outer	46T	Y1W898010
				Inner	39T	Y1W839000
				Inner	36T	Y1W836000
				Inner	34T	Y1W834000
				Outer	53T	Y1P498080
				Outer	52T	Y1P498070
				Outer	50T	Y1P498060
				Outer	46T	Y1P498050
Inner	39T	Y1P439000				
Inner	36T	Y1P436000				
Inner	34T	Y1P434000				

SHIMANO 105						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-R7100	Double	12-speed	Outer	52T	Y0RS98070
				Outer	50T	Y0RS98010
				Inner	36T	Y0RS9802T
				Inner	34T	Y0RS9801T
	FC-R7000	Double	11-speed	Outer	53T Black	Y1WV98050
				Outer	52T Black	Y1WV98030
				Outer	50T Black	Y1WV98010
				Outer	53T Silver	Y1WV98060
				Outer	52T Silver	Y1WV98040
				Outer	50T Silver	Y1WV98020
				Inner	39T Black	Y1WV39000
				Inner	36T Black	Y1WV36000
				Inner	34T Black	Y1WV34000
				Inner	39T Silver	Y1WV39010
				Inner	36T Silver	Y1WV36010
				Inner	34T Silver	Y1WV34010

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

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

SHIMANO						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
	FC-R5520	Double	12-speed	Outer	50T	Y0RT98010
				Inner	34T	Y0RT9801T
	FC-R5510	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	12-speed	Outer	48T	Y0SC98010
				Inner	31T	Y0SC9801T
	FC-RX610-1	Single	12-speed	-	40T	Y0SR9802T
				-	38T	Y0SR9801T
	FC-RX610-2	Double	12-speed	Outer	46T	Y0SS98010
				Inner	30T	Y0SS9801T
	FC-RX810-1	Single	11-speed	-	42T	Y0JP98020
				-	40T	Y0JP98010
	FC-RX810-2	Double	11-speed	Outer	48T	Y0JR98010
				Inner	31T	Y0JR31000
	FC-RX600-1	Single	11-speed	-	40T	Y0K540000
				Outer	46T for 11-speed	Y0K698010
	FC-RX600-11	Double	11-speed	Inner	30T for 11-speed	Y0K630000
				Outer	46T for 10-speed	Y0K798010
	FC-RX600-10	Double	10-speed	Inner	30T for 10-speed	Y0K630000

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

Track Chainrings

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

MTB Chainrings


XTR						
Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.	
FC-M9100-1/ FC-M9120-1/ FC-M9130-1	Single	12-speed	-	38T (SM-CRM95)	ISMCRM95A8	
			-	36T (SM-CRM95)	ISMCRM95A6	
			-	34T (SM-CRM95)	ISMCRM95A4	
			-	32T (SM-CRM95)	ISMCRM95A2	
			-	30T (SM-CRM95)	ISMCRM95A0	
FC-M9100-2 FC-M9120-B2 FC-M9100-2/ FC-M9120-B2	Double	12-speed	Outer	38T	Y1X298010	
			Outer	38T	Y0G898010	
			Inner	28T	Y1X228000	
DEORE XT						
Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.	
FC-M8100-1/ FC-M8120-1/ FC-M8130-1	Single	12-speed	-	36T (SM-CRM85)	ISMCRM85A6	
			-	34T (SM-CRM85)	ISMCRM85A4	
			-	32T (SM-CRM85)	ISMCRM85A2	
			-	30T (SM-CRM85)	ISMCRM85A0	
			-	28T (SM-CRM85)	ISMCRM85Z8	
FC-M8100-2/ FC-M8120-B2	Double	12-speed	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		Outer	36T	Y0LE98010
				Inner	26T	Y1WD26000
	FC-M6000-2	Double	10-speed	Outer	38T	Y1WD98030
				Outer	34T	Y1WD98040
				Inner	28T	Y1WD28000
				Inner	24T	Y1WD24000
	FC-M6000-2/ FC-M6000-B2	Double		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		Outer	36T	Y0L498010
				Inner	26T	Y0L426000
	FC-MT510-1	Single	12-speed	-	34T	Y0K434000
				-	32T	Y0L332000
	FC-MT511-1	Single		-	30T	Y0L330000
				-	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
				Inner	22T for 40-30-22T	Y1PK22000
	FC-MT500-2/ FC-MT500-B2	Double	10-speed	Outer	36T	Y1WB98010
				Inner	26T	Y1WD26000



LIFESTYLE Chainrings

SHIMANO CUES						
	Model no.	Front chainring type	Speed	Outer/Middle/Inner	Description	Code no.
 FCU6000-1	FC-U8000-1	Single	11/10/9-speed	-	40T	Y0R69801T
				-	42T	Y0R69802T
	FC-U8000-2	Double	11-speed	Outer	46T	Y0R998010
				Inner	32T	Y0R99801T
	FC-U6000-1	Single	11/10/9-speed	-	30T	Y0R79801T
				-	32T	Y0R79802T
				-	40T	Y0R79803T
				-	42T	Y0R79804T
	FC-U6000-2/FC-U6000-2B	Double	11/10/9-speed	Outer	36T	Y0RB98020
				Inner	22T	Y0RB9802T
	FC-U6000-2	Double	10/9-speed	Outer	46T	Y0RB98010
				Inner	30T	Y0RB9801T
	FC-U6010-2	Double	11-speed	Outer	46T	Y0RA98010
				Inner	32T	Y0RA9801T


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	Outer/Middle/Inner	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	Single	IHG		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	Outer/Middle/Inner	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	Outer/Middle/Inner	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			
	FC-E6100/E8000/ M8150/EM600/ EM900	SM-CRE61	38T	With double		ESMCRE61A8DG	Y0J138000		
				With single		ESMCRE61A8SG			
				Without	Black	ESMCRE61A8XL			
				Without	Silver	ESMCRE61A8XS			
	FC-E8000/ E8050/M8050/ M8150/EM600/ EM900/EN500	SM-CRE61	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							
				Without	Silver	ECRET600A8XS			
	FC-E8000/ E8050/M8050/ M8150/EM600/ EM900/EN500	SM-CRE70-B	34T (53 mm chain line)	Without		ESMCRE70BA4X	Y0J434000		
					34T (55 mm chain line)			ESMCRE70B5A4XL	
					SM-CRE70	38T		With double	
Without		ESMCRE70A8XL							
	FC-E8000/ E8050/M8050/ M8150/EM600/ EM900/EN500	SM-CRE70-12-B	36T (53 mm chain line)	Without		ESMCRE7012BA6XL	Y0KK36000		
					36T (55 mm chain line)			ESMCRE7012B5A6XL	
	FC-E8000/ E8050/M8050/ M8150/EM600/ EM900/EN500	SM-CRE70-12	42T	With double		ESMCRE7012B2DGL	Y0KK42000		
				SM-CRE80	34T	Without		ISMCRE80A4X	Y1VY00030
							38T		ISMCRE80A8X
44T	With double	ISMCRE80B4DG	Y1VY44000						
	FC-E8000/ E8050/M8050/ M8150/EM600/ EM900/EN500	SM-CRE80-B	34T (53 mm chain line)	Without		ISMCRE80BA4X	Y1VY00030		
					34T (55 mm chain line)		ISMCRE80B5A4XL	Y1VY00040	
						38T (53 mm chain line)			ISMCRE80BA8X
					38T (55 mm chain line)			ISMCRE80B5A8XL	
	FC-E8000/ E8050/M8050/ M8150/EM600/ EM900/EN500	SM-CRE80-R	47T	Without		ISMCRE80RB7XL	Y0JZ47000		
				SM-CRE80-12-B	34T (53 mm chain line)	Without		ISMCRE8012BA4X	Y0KJ34100
							34T (55 mm chain line)		
36T (53 mm chain line)		ISMCRE8012BA6X							
36T (55 mm chain line)		ISMCRE8012B5A6XL							
38T (53 mm chain line)		ISMCRE8012BA8X							
38T (55 mm chain line)		ISMCRE8012B5A8XL							
	FC-E8000/ E8050/M8050/ M8150/EM600/ EM900/EN500	SM-CRE80-12-SB	34T	Without		ISMCRE8012SBA4XL	Y0KJ34100		
					36T		ISMCRE8012SBA6XL	Y0KJ36100	

BOTTOM BRACKET

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

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

MTB/CITY bottom bracket

Bottom bracket type	Bottom bracket shell width	Bottom bracket axle length	Series description	Model no.	Code no.		
Thread type	68/73 mm	121 mm (AK)	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		
		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



E-BIKE DESIGN For Front Single Speed E-bike designed chains are developed for drivetrains without a front derailleur.

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)



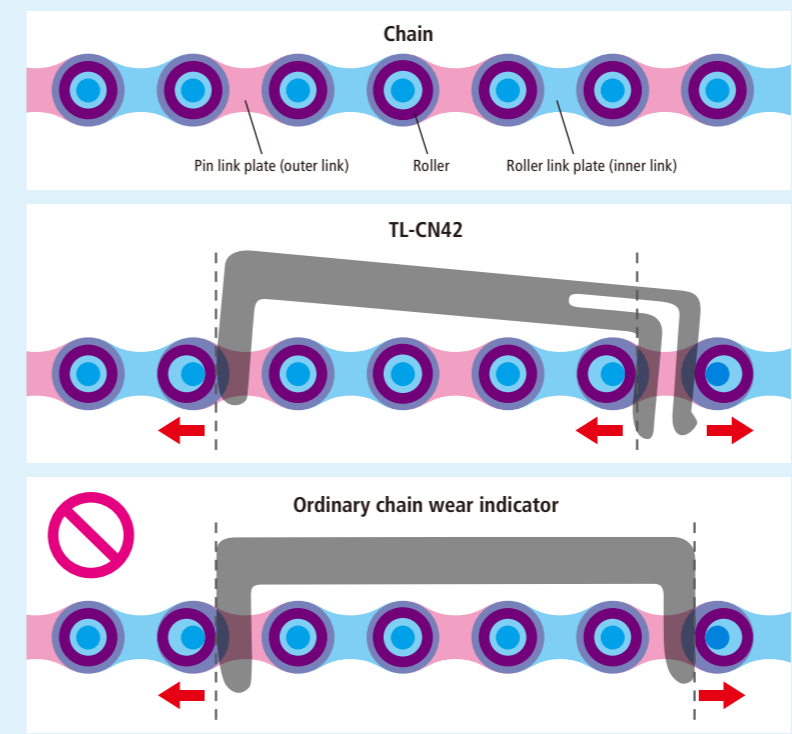
Chain cutter for 12-speed chain

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



SHIMANO Chain Wear Indicator

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



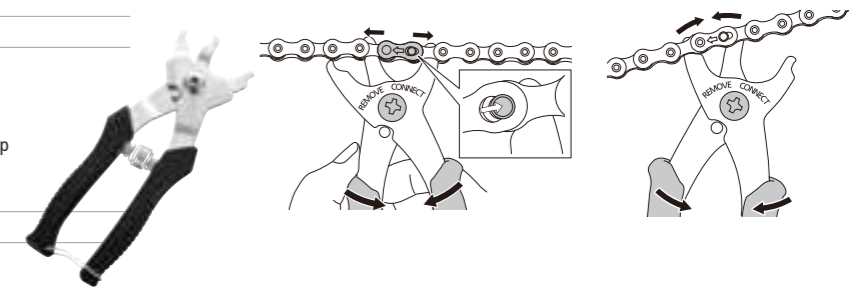
Enables precise and practical measurement
Pushes the rollers to one side in order to duplicate the position of rollers on gears during the actual drive of chain.

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

TL-CN10

QUICK-LINK connecting & removing pliers

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



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

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

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

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

8/7/6-speed											
Type	Photo	Model no.	Performance indicator	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.	
HG/UG		CN-HG71		Gray	Gray	X	-	QUICK-LINK (CN-UG51)	324 g	ECNHG71C116Q	
		CN-HG71		Gray	Gray	X	-	Black color	324 g	ECNHG71C1161 ECNHG71C1381	
		CN-HG40		Gray	Brown	-	-	QUICK-LINK (CN-UG51)	324 g	ECNHG40116Q	

Internal hub gear & Single speed											
Type	Photo	Model no.	Performance indicator	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.	
1/2" x 1/8"		CN-NX10		Dacrotized treatment	Dacrotized treatment	-	-	End pin	358 g	ECNXX10C1141	

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

E-BIKE 10-speed											
Type	Photo	Model no.	Performance indicator	E-Bike	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.
HG-X		CN-E6090-10			SIL-TEC	SIL-TEC	X	-	Two Lines	276 g	ICNE6090101181 ICNE6090101261 ICNE6090101381

E-BIKE 9-speed											
Type	Photo	Model no.	Performance indicator	E-Bike	Outer link plate surface treatment	Inner link plate surface treatment			Connecting pin	Weight (114 link)	Code no.
HG		CN-E6070-9			Gray	Gray	X	-	Silver color	276 g	ICNE607091181 ICNE607091261 ICNE607091381

QUICK-LINK					
	Model no.	Compatibility	Note	Unit	Code no.
	SM-CN910-12	For 12-speed chain	<ul style="list-style-type: none"> Wears and functions like other links on the chain SIL-TEC surface treatment Single use 	2 pairs 50 pairs (workshop jar)	ISMCM91012A ISMCM91012BS
	SM-CN900-11	For 11-speed chain, CN-LG500	<ul style="list-style-type: none"> Wears and functions like other links on the chain SIL-TEC surface treatment Single use 	2 pairs 50 pairs (workshop jar)	ISMCM90011A ISMCM90011BS
	SM-UG51	For 8/7/6-speed chain	<ul style="list-style-type: none"> Wears and functions like other links on the chain Single use 	2 pairs 50 pairs (workshop jar)	ESMUG51A ESMUG51TA ISMUG51BS

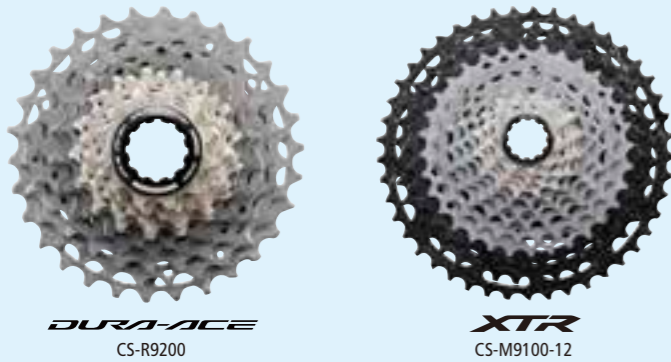
Chain pin				
	Compatibility	Identification	Unit	Code no.
	For 11-speed chain	With sharp nose	3 pcs.	Y0AH98030
	For 10-speed chain except CN-7800	With two lines	3 pcs.	Y08X98031
	For 9-speed chain	Silver color	3 pcs.	Y06998030
	For 8/7/6-speed chain	Black color	3 pcs.	Y04598010

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.



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-R9200-12	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	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
CS-HG800-11	ULTEGRA	14-15-16-17-18-19-20-21-23-25-28T			300 g	ICSR800011428	
CS-HG800-11	SHIMANO	11-13-15-17-19-21-23-25-27-30-34T	HG-EV	HG spline M	335 g	ICSHG8001111134	

— Titanium gear

Cassettes road

Cassettes road							
1 unit (set)							
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
	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	SHIMANO	11-13-15-17-19-21-23-25-27-30-34T	HG spline M	379 g	ICSHG70011134	
	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
			12-13-14-15-17-19-21-23-25-28T				ICSHG50010228
	CS-HG400-9	SORA	11-12-13-15-17-19-21-23-25T	HG	HG spline M	-	ICSHG4009125
			CS-HG50-9				TIAGRA SORA
	12-13-14-15-17-19-21-23-25T	ICSHG509225					
	13-14-15-16-17-19-21-23-25T	ICSHG509325					
	CS-HG50-9	TIAGRA SORA	14-15-16-17-18-19-21-23-25T	HG	HG spline M	-	-
14-15-16-17-18-19-21-23-25T			ICSHG509425				
	CS-HG50-8	CLARIS	11-13-15-17-19-21-24-28T	HG	HG spline M	-	ECSHG508128P
			11-13-15-17-20-23-26-30T				ECSHG508130P
			11-13-15-18-21-24-28-32T				ECSHG508132P
			11-13-15-18-21-24-28-34T				ECSHG508134P
			12-13-15-17-19-21-23-25T				ICSHG508225
			13-14-15-17-19-21-23-26T				ICSHG508326
			13-14-15-17-19-21-23-26T				ICSHG508326

Cassettes MTB

Cassettes MTB								
1 unit (set)								
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.	
	CS-M9101-12	XTR	10-12-14-16-18-21-24-28-32-36-40-45T	HYPERGLIDE+	MICRO SPLINE	357 g	ICSM9101045	
			10-12-14-16-18-21-24-28-33-39-45-51T			367 g	ICSM9101051	
	CS-M8100-12	DEORE XT	10-12-14-16-18-21-24-28-32-36-40-45T	HYPERGLIDE+	MICRO SPLINE	440 g	ICSM8100045	
			10-12-14-16-18-21-24-28-33-39-45-51T			450 g	ICSM8100051	
	CS-M7100-12	SLX	10-12-14-16-18-21-24-28-32-36-40-45T	HYPERGLIDE+	MICRO SPLINE	520 g	ICSM7100045	
			10-12-14-16-18-21-24-28-33-39-45-51T			540 g	ICSM7100051	
CS-M6100-12	DEORE	10-12-14-16-18-21-24-28-33-39-45-51T	HYPERGLIDE+	MICRO SPLINE	-	ICSM610012051		
	CS-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	-	ICSM51001142	
			11-13-15-18-21-24-28-33-39-45-51T			-	ICSM51001151	
	CS-M771-10	DEORE XT	11-12-14-16-18-20-22-25-28-32T	HG	HG spline M	294 g	ICSM77110132	
			11-13-15-17-19-21-23-26-30-34T			323 g	ICSM77110134	
			11-13-15-17-19-21-24-28-32-36T			343 g	ICSM77110136	
	CS-M4100-10	DEORE	11-13-15-18-21-24-28-32-37-42T	HG	HG spline M	-	ECSM410010142	
			11-13-15-18-21-24-28-32-37-46T			-	ECSM410010146	
	CS-HG50-10			11-13-15-17-19-21-24-28-32-36T			-	ICSHG5010136


— Titanium gear — Aluminum gear

Cassettes MTB



1 unit (set)							
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
	CS-M770	DEORE XT	11-12-14-16-18-21-24-28-32T	HG	HG spline M	264 g	ICSM7709132
			11-13-15-17-20-23-26-30-34T			300 g	ICSM7709134
	CS-HG400-9	SHIMANO ALIVIO	11-12-13-14-16-18-21-24-28T	HG	HG spline M	-	ICSHG4009128
			11-12-14-16-18-21-24-28-32T			-	ICSHG4009132
			11-13-15-17-20-23-26-30-34T			-	ICSHG4009134
			11-13-15-17-20-23-26-30-36T			-	ICSHG4009136
			12-14-16-18-21-24-28-32-36T			-	ICSHG4009236
	CS-HG201-9	ACERA	11-13-15-17-19-21-24-28-32T	HG	HG spline M	-	ECSHG2019132
			11-13-15-17-20-23-26-30-34T			-	ECSHG2019134
			11-13-15-17-19-21-24-28-32T			-	ECSHG2009132
			11-13-15-17-20-23-26-30-34T			-	ECSHG2009134
	CS-HG200-9		11-13-15-17-19-21-24-28T	HG	HG spline M	-	ECSHG518128
11-13-15-17-20-23-26-30T			-			ECSHG518130	
11-13-15-18-21-24-28-32T			-			ECSHG518132	
	CS-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		11-13-15-18-22-27-33-40T	HG	HG spline M	-	ECSHG4008140
			NEW 11-13-15-18-22-27-35-45T			-	ECSHG4008145
	CS-HG41-8	ACERA	11-13-15-17-20-23-26-30T	HG	HG spline M	-	ECSHG418130
11-13-15-18-21-24-28-32T			-			ECSHG418132	
11-13-15-17-20-23-26-34T			-			ECSHG418134	
CS-HG31-8	ALTUS	11-13-15-17-20-23-26-30T	HG	HG spline M	-	ECSHG318130	
		11-13-15-18-21-24-28-32T			-	ECSHG318132	
		11-13-15-17-20-23-26-34T			-	ECSHG318134	
CS-HG200-8	SHIMANO	12-14-16-18-21-24-28-32T	HG	HG spline M	-	ECSHG2008232T	
	CS-HG41-7		11-13-15-18-21-24-28T	HG	HG spline S	-	ECSHG417128
			12-14-16-18-21-24-28T			-	ECSHG2007228T
	CS-HG200-7	SHIMANO	12-14-16-18-21-26-32T	HG	HG spline S	-	ECSHG2007232T



Multiple freewheel

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

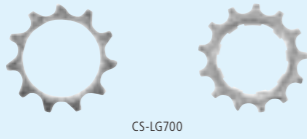
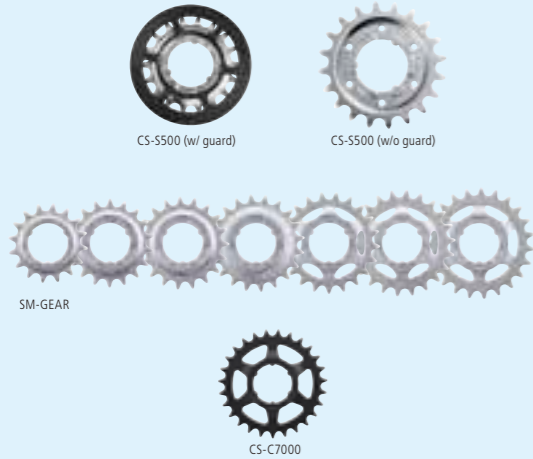

Single freewheel

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


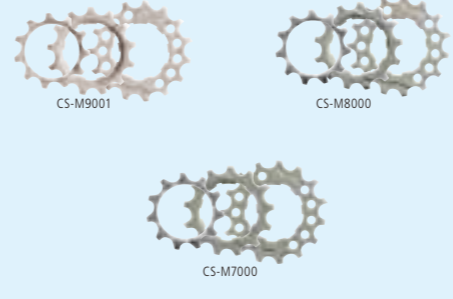
Top four gear-sprockets for 12-speed MTB cassettes

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

Other sprockets and cogs




1 unit (set)						
	Model no.	Series	Teeth	Code no.	Remark	
	CS-LG700	SHIMANO CUES	11T	YORF9801T		
			13T	YORF9802T		
	CS-LG400/300		11T & 13T unit	YORF98020		
			11T	YORG9801T	Used for CS-LG400	
			13T	YORG9802T	Used for CS-LG400	
	CS-5500	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		
	CS-C7000	NEXUS	23T	Y33060200		
			24T	Y0FM24000		
27T			Y0FM01000			
30T			Y0FM30000			
	SS-7600	DURA-ACE Track	13T - 1/8"	Y27913100		
			14T - 1/8"	Y27914100		
			15T - 1/8"	Y27915100		
			16T - 1/8"	Y27916100		
			13T - 3/32"	Y27913000		
			14T - 3/32"	Y27914000		
			15T - 3/32"	Y27915000		
			16T - 3/32"	Y27916000		

Sprockets MTB teeth (top gears)

	Speed	Model no.	Series	Teeth	Teeth (4 gears from top)					
					10T	12T	14T	16T		
	12-speed	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				
	11-speed	CS-M9001	XTR	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 11-13-15-17-19-21-24-28-32-37-42T 11-13-15-18-21-24-28-33-39-45-51T	Y1PU11000	Y1PU13000	Y1PU15000			
					CS-M8000	DEORE XT	Y1RK11000	Y1RK13000	Y1RK15000	
		CS-M7000	SLX							
							CS-M5100-11	DEORE		

LIFESTYLE Cassettes

Cassettes SHIMANO CUES

1 unit (set)							
	Model no.	Series	Teeth	Type	Spline type	Weight (g)	Code no.
 CS-LG700-11	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	CS-LG400-10	SHIMANO CUES	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		11-13-15-17-20-23-28-36-46T			-	ECSLG4009146
 CS-LG400-9	CS-LG400-9	SHIMANO CUES	11-13-15-17-20-23-28-34-41T	LINKGLIDE	HG spline M*	-	ECSLG4009141
	CS-LG400-9D		11-13-15-17-20-23-26-30-36T			-	ECSLG4009136
	CS-LG300-9		11-13-15-17-20-23-28-36-46T			-	ECSLG3009146
	CS-LG300-9		11-13-15-17-20-23-28-34-41T			-	ECSLG3009141
	CS-LG300-9D		11-13-15-17-20-23-26-30-36T			-	ECSLG3009136
	CS-LG400-9		11-13-15-17-20-23-28-34-41T			-	ECSLG4009141
	CS-LG300-9D		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		x2	x1	Code no.	
			Series	Model 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, GRX, DEORE XT	RD-R8150	X	-	Y3J198010	
				RD-R8000/R8050/RX800/RX805/RX812/M8000/M8050/RX817	X	-	Y3E998010	
				ULTEGRA	RD-6800/6870	X	-	Y5YC98140
				SHIMANO 105	RD-R7150	-	-	Y3HY98010
 RD-R7150	Pulley set	SELECT	SHIMANO 105, SLX, DEORE, METREA	RD-R7000/5800-GS/M7000-11/M6000-GS/U5000	-	-	Y5YE98090	
				RD-R7150	-	-	Y3HY98010	
 RD-RX810	Pulley set	ADVANCED	GRX	NEW RD-RX825	X	-	Y3JS98010	
				RD-RX820	-	-	Y3GE98010	
 RD-RX815	Pulley set	ADVANCED	LG	RD-RX815/RX810	X	-	Y3GE98010	
				RD-M8130-SGS	X	-	Y3JS98010	
 RD-M8130	Pulley set	ADVANCED	ULTEGRA, DEORE XT, SAINT	RD-6770/6700-A/G6700/6600/M772/M771/M770/M810-A/M810/T780	-	X (Tension pulley only)	Y5X998150	
				RD-5800-SS/5701/5700-A/5700/4700/4601/4600/3500/3400/R2000/2400/R350/R350-10/RX400/M7000-10/M675/M670/M663/M662/M640/M6000-SGS/M615/M610/M601/M593/M592/M591/M4000/M430/M3000/M390/M370/M2000/T670/T661/T6000/T610/T4000/T3000/F800/CT-S500	-	-	Y5XH98120	
 RD-M9100	Pulley set	ULTIMATE	XTR	RD-M9100/M9120	X	-	Y3FA98090	
				RD-M9000/M9050	X	-	Y5PV98160	
 RD-M8100	Pulley set	ADVANCED	DEORE XT	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	NEW RD-U8050-11/U8050-10	-	-	Y3JB98010	
				RD-U8000	X	-	Y3JD98080	
				RD-U8020/U6020-11/U6020-10	-	X (Guide pulley only)	Y3JE98010	
				RD-U6070/U6050	-	-	Y3JB98010	
				RD-U6000/U4000	-	-	Y3JF98010	
				RD-U4020/U3020	-	-	Y3JK98010	
 RD-U2000	Pulley set	SELECT	NEW 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.
	XTR	RD-M9100	Y3FA59000
	DEORE XT	RD-M8100	Y3FW50000
		RD-M8130	
	SLX	RD-M7100	Y3FY51000

FRONT DERAILLEUR

Skid plate for road front derailleur

Skid plate	Series	Model no.	Mounting holes	Code no.
	DURA-ACE	FD-R9100	3	Y5ZS15000
		FD-9000	2	Y5NF19000
	ULTEGRA SHIMANO 105 GRX	FD-RX820/R8000/R7000/5801/RX810/RX400	3	Y2BA12000
	ULTEGRA	FD-6800	3	Y5P116000
SHIMANO 105	FD-5800			
TIAGRA	FD-4700			
	SORA CLARIS	FD-R3000/R2000	3	Y5YY00080

QUICK RELEASE

	Series	Model no. (Wheel)	Front/Rear	O.L.D.	Quick release skewer length	Code no.	Color		
	DURA-ACE	WH-R9200 Series	Front	100 mm	133 mm	Y0M498010	Series color		
			Rear	130 mm	163 mm	Y0M598010			
		WH-R9100 Series	Front	100 mm	133 mm	Y0B198010		Series color	
			Rear	130 mm	163 mm	Y0E98010			
		WH-9000 Series	Front	100 mm	133 mm	Y28E98010	Series color		
			Rear	130 mm	163 mm	Y3DZ98010			
					168 mm	Y3DZ98020			
	ULTEGRA	WH-6800	Front	100 mm	133 mm	Y49298010	Series color		
			Rear	130 mm	163 mm	Y49398010			
		RS	WH-RS700	Front	100 mm	133 mm	Y0D198010	-	
				Rear	130 mm	163 mm	Y0D298010		
									168 mm
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			
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	Y45K98100	-		
			Rear	130 mm	163 mm	Y45K98110			
						168 mm		Y45K98120	
			RX	WH-RX31	Rear	135 mm	168 mm	Y3TV98020	-
								173 mm	
	WH-RX010	Front		100 mm	133 mm	Y02U98010	-		
		Rear		135 mm	168 mm	Y02V98010			
	WH-RX05	Front		100 mm	133 mm	Y45K98100	-		
		Rear		135 mm	168 mm	Y45K98120			
				173 mm	Y4FL98370				
	SHIMANO	WH-R501/R501-A	Front	100 mm	129 mm	Y45H98010	Black		
						133 mm	Y45K98100	Silver	
						163 mm	Y45K98110	Black	
			Rear	130 mm	168 mm	Y45K98120			
						163 mm	Y48G98220	Silver	
						168 mm	Y48G98230		
		WH-R501-30	Front	100 mm	133 mm	Y45K98100	Black		
			Rear	130 mm	163 mm	Y45K98110			
		WH-R500	Front	100 mm	133 mm	Y45K98120	Black		
						163 mm		Y45K98110	
			Rear	130 mm	168 mm	Y45K98120			
						168 mm		Y48G98210	
				163 mm	Y48G98220	Black			
			168 mm	Y48G98230					

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			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-RS01(-A)-R/WH-RX010-R/WH-RX05-R/WH-U5000-R/WH-MT500-CL-R/WH-MT65-66-68-R/WH-MT55-R/WH-MT35-R/WH-MT15-R/WH-RX010-R	FH-6700/FH-R7000/FH-5800/FH-5700/FH-4600/FH-3500/FH-2400/FH-RS505/FH-RS400/FH-RS300/FH-M7000/FH-M6000/FH-M675/FH-M665/FH-M615/FH-M590-595/FH-M4050/FH-M475/FH-M430-M435/FH-M3050/FH-T4000/FH-T3000/FH-TX800/FH-T610/FH-T670-675/FH-TX500-TX505/FH-UR600	-	Y13098620
				WH-6800-R/WH-RS81-R/WH-RS500-R/WH-RS370-R/WH-RX31-R12/WH-RX830-TL-R/WH-M785-M788-R/WH-M8000-M8020-R/WH-MT68-MT66-R12/WH-U5000-R12	FH-6800/FH-CX75/FH-M828-825-820/FH-M810-815/FH-M8000-8010(-B)/FH-M785-788/FH-M7010(-B)/FH-M678/FH-M640-645-648/FH-M6010(-B)/FH-M618(-B)/FH-T780	HB-R505/HB-M618(-B)/HB-M3050/HB-MT200/HB-T3000/HB-TX800/HB-TX500/HB-TX505	Y13098621
	3/16"	22	Y4BB98030	WH-6700-F/WH-RS610-TL-F/WH-RS330-F/WH-RS80-F/WH-RS61-TL-F/WH-RS31-F/WH-RS300-F/WH-RS21-CL-F/WH-RS11-F/WH-RS10(-A)-F/WH-RS100-F/WH-RS01(-A)-F/WH-RX010-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	-	-	Y13098621
				WH-RX570-R	FH-M9000/FH-M9010	HB-M820	-
5/32"	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	-	
			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	
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	-
					Y0AZ98050	WH-R9170	-
			Y3DZ98060	WH-R9100, WH-9000	FH-9000		
			Y3EX98030	WH-R8170, WH-RS770, WH-RS700, WH-RX570	FH-RS770		
	ROAD 11-speed	HG spline L	Titanium	DURA-ACE	Y0AZ98050	WH-R9170	-
					Y3DZ98060	WH-R9100, WH-9000	FH-9000
			Steel	ULTEGRA, GRX, SHIMANO	Y3EX98030	WH-R8170, WH-RS770, WH-RS700, WH-RX570	FH-RS770
					Y49398060	WH-6800, WH-RS500, WH-RS81, WH-RX830	FH-6800, FH-CX75
				SHIMANO	Y31F98070	WH-RS300, WH-RS330, WH-RS610	FH-R7000, FH-5800, FH-UR600, FH-RS505, FH-RS400
					Y48U98040	WH-RS100, WH-RS010, WH-RX010	-
10/9/8-speed, MTB 11-speed	HG spline M	Steel	SHIMANO	Y0FH98010	WH-RS370	-	
				Y3G898030	WH-RS171	FH-RS470	
		Aluminum	DEORE XT	Y45K98070	WH-R501	-	
				Y0E598030	WH-MT600, WH-MT500	-	
MTB 12-speed	MICRO SPLINE	Steel	SHIMANO	Y0KD98040*	WH-MT620, WH-MT501	FH-MT510, FH-MT500	
				Y3HU98020*	WH-MT601	FH-MT410, FH-MT401	

*The part number is freewheel body unit only

Freewheel body and cassette spline compatibility

Free unit type	Model	Photo	Compatible cassette type								
			FREEHUB/Wheel		MTB						All
			12-speed	11-speed	12-speed	11-speed	11-speed	SHIMANO CUES	11/10-speed		
MICRO SPLINE	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-M8100, WH-M8120, WH-MT620, WH-MT601, WH-MT501		X	-	-	-	-	-	-	10/9/8-speed	
HG spline L2 (ROAD 12-speed dedicated)	WH-R9200, WH-R9270		-	-	X	-	-	-	-	-	
HG spline L (ROAD 12/11-speed)	FH-9000, FH-6800, FH-R7000, FH-R7070, FH-RS770, FH-RS400, FH-RS470, FH-UR600, WH-R9100, WH-R9170, WH-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		-	X *1	X	X	X *1	X *1	X *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-RS01(-A)		-	X	-	-	X	X *4	X *3		

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

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

*4 See technical information (C-649) for LINKGLIDE cassettes compatibility details by model.

<https://productinfo.shimano.com/compatibility/C-649>



INTERNAL ASSEMBLY OF INTERNAL GEARED HUB

Internal assembly of internal geared hub

Speed	Series	Model no.	Axle length (mm)					
			182	184	187	193	Others	
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	-	-	
		7C	SG-C3001-7C	-	-	-	-	Y3EV98150 (176)
	7-speed		SG-C3001-7C-DX	-	Y3EV98020	-	-	Y3EV98010 (176)
		7D	SG-C3001-7D	-	-	Y3EW98010	-	-
7R		SG-C3001-7R	Y3ET98010	-	-	-	Y3ET98020 (201)	
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	-	-	



SG-C7000-5D



SG-C3001-7D



SG-C6001-8D

WORKSHOP






WORKSHOP





Brake shoes

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


Disc brake pad, disc brake hose & accessory


	Category	Model no.		Package	Qty/length	Code no.
	DISC BRAKE PADS SET	B055-RX		Cardboard box	25 pairs	EBPB05SRXBS
				Cardboard box	50 pairs	EBPB05SRXCS
		G05A-RX		Cardboard box	25 pairs	EBPG05ARXBS
				Cardboard box	50 pairs	EBPG05ARXCS
		G055-RX		Cardboard box	25 pairs	EBPG05SRXBS
		J04C-MF		Cardboard box	25 pairs	IBPJ04CMFBS
	J05A-RF		Cardboard box	25 pairs	EBPJ05ARFBS	
	L05A-RF		Cardboard box	25 pairs	EBPL05ARFBS	
	D035-RX		Cardboard box	25 pairs	EBPD03SRXBS	
		DISC BRAKE HOSE	SM-BH90-SB	Black	Cardboard box	10 pcs./1,700 mm
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	Y60098520
 Black	SHIFT OUTER CASING	OT-SP41 Black	Cardboard box	50 m	Y60098580
		OT-SP41 Black	Roll	50 m	Y6009858A
		OT-SP41 White	Cardboard box	50 m	Y60098581
		OT-SP41 High-tech gray	Cardboard box	50 m	Y60098590
		OT-RS900 Black	Cardboard box	10 pcs./240 mm	Y0BM98011
 Black					


Brake inner cable & outer casing							
	Category	Model no.	Package	Qty/length	Code no.		
 Road Polymer coated brake inner cable	BRAKE INNER CABLE	Road Polymer coated brake inner cable	Cardboard box	20 pcs./2,000 mm	Y8YZ98051		
		Road SIL-TEC coated stainless brake inner cable	Cardboard box	50 pcs./2,050 mm	Y80098571		
		Road stainless steel brake inner cable	Cardboard box	100 pcs./2,050 mm	Y80098561		
		Road Steel brake inner cable	Cardboard box	100 pcs./2,050 mm	Y80098531		
		MTB stainless steel brake inner cable	Cardboard box	100 pcs./2,050 mm	Y80098551		
		MTB steel brake inner cable	Cardboard box	100 pcs./2,050 mm	Y80098521		
		 BC-9000 brake outer casing Black	BRAKE OUTER CASING	BC-9000 brake outer casing Black	Cardboard box	40 m	Y8YZA0489
BC-9000 brake outer casing Black	Roll			40 m	Y8YZA048B		
SLR brake outer casing Black	Cardboard box			40 m	Y80900011		
SLR brake outer casing Black	Roll			40 m	Y8090001A		
SLR brake outer casing High-tech gray	Cardboard box			40 m	Y80900012		
SLR brake outer casing White	Cardboard box			40 m	Y80900015		
M-System brake outer casing Black	Cardboard box			40 m	Y80900013		
M-System brake outer casing Black	Roll			40 m	Y8090001B		
M-System brake outer casing High-tech gray	Cardboard box			40 m	Y80900014		
							
							

Caps/Small parts							
	Category	Model no.	Package	Qty/length	Code no.		
 Outer cap with short tongue for road ST	OUTER CASING CAP	Outer cap with short tongue for road ST	Workshop jar	100 pcs.	Y63Z98810		
		Outer cap with long tongue for polymer-coated inner cable	Workshop jar	100 pcs.	Y63Z98960		
		Outer cap steel for shift/brake cable	Workshop jar	200 pcs.	Y60B98011		
		Outer cap resin for SP40/41	Workshop jar	200 pcs.	Y6ZA98012		
		Outer cap resin sealed for SP40/41	Workshop jar	200 pcs.	Y6Z298012		
		Outer cap aluminum sealed for RD	Workshop jar	100 pcs.	Y6YX90011		
		Outer cap with tongue & rubber shield for SP40/41	Workshop jar	50 pcs.	Y6AM98085		
		Outer cap for ST-7900	Workshop jar	50 pcs.	Y6RT98175		
		 Shifting inner cable end cap (ø 1.2 mm)	INNER CABLE CAP	Shifting inner cable end cap (ø 1.2 mm)	Workshop jar	500 pcs.	Y62098035
				Brake inner cable end cap (ø 1.6 mm)	Workshop jar	500 pcs.	Y62098045

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

Rotor					
	Model no.	Package	Qty/length	Code no.	
 SM-RT54	SM-RT54-M	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT54MXS
	SM-RT54-S	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT54SX5
	SM-RT64-M	W/O LOCK RING	Cardboard box	10 pcs.	ESMRT64MXSC
			Cardboard box	10 pcs.	ESMRT64SXSC
	SM-RT66-M		Cardboard box	10 pcs.	ESMRT66MS
	SM-RT66-S		Cardboard box	10 pcs.	ESMRT66SS

Chains						
	Category	Model no.	Speed	Package	Qty/length	Code no.
 CN-M7100 w/ QUICK-LINK	Chain pins	NEW CN-M7100 w/ QUICK-LINK	12-speed	Cardboard box	20 pcs./126Link	ICNM7100126QS820
					20 pcs./116Link	ICNM7100116QS820
		NEW CN-LG500 w/ QUICK-LINK	11-speed	Cardboard box	20 pcs./126Link	ICNLG500126QS820
					20 pcs./116Link	ICNLG500116QS820
		NEW CN-HG601-11 w/ QUICK-LINK	11-speed	Cardboard box	20 pcs./126Link	ICNHG60111126QS820
		CN-HG601-11 w/ QUICK-LINK	11-speed	Cardboard box	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.	ICNHG951161S
		CN-HG54	10-speed	Cardboard box	20 pcs.	ICNHG541161S
		CN-HG53	9-speed	Cardboard box	20 pcs.	ECNHG53C1161S
		CN-HG71	8/7/6-speed	Cardboard box	20 pcs.	ECNHG71C1161S, ECNHG71T1161S
		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.	ICNE6090101181S
		CN-E6070-9	9-speed E-BIKE	Cardboard box	20 pcs.	ICNE607091181S
 For 11-speed chain		For 11-speed chain With sharp nose	11-speed	Workshop jar	100 pcs.	Y0AH98016
		For 10-speed chain except CN-7800 With two lines	10-speed	Workshop jar	100 pcs.	Y08X98026
		For 9-speed chain Silver color	9-speed	Workshop jar	100 pcs.	Y06998026
		For 8/7/6-speed chain Black color	8/7/6-speed	Workshop jar	100 pcs.	Y04598026

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

TOOLS

Surgically precise for excellent service every time.



ROAD

MTB

TOOLS

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

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	<ul style="list-style-type: none"> Guide pin stabilizes the tool Hardened steel for rigidity and durability
Remark	Cannot be used for multiple freewheels due to the difference in dimensions
Code no.	Y12009230

TL-LR20
Lock ring tool for SM-RT80

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



With TL-SR23

Service Tips

Lock ring tool guide

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

	Internally serrated type	Internally and externally serrated type*	Externally serrated type
Disc brake rotor fixing lock ring			
Lock ring tightening tool	 For internally serrated type 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

TL-FW30
Multiple freewheel tool

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

TL-FW40
Single freewheel tool

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

TL-FW45
BMX freewheel tool

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

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

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

TL-SR24
9-12-speed compatible sprocket remover

Usage	Holds 9-12 speed sprockets to remove lock ring with TL-LR15/20 <ul style="list-style-type: none"> Curved head design for better grip on gears Precise and durable SHIMANO chain equipped Chrome plated chromoly blade for durability and rigidity Magnet at the end of the chain holds the chain for easier storage Ergonomic handle
USP	<ul style="list-style-type: none"> Curved head design for better grip on gears Precise and durable SHIMANO chain equipped Chrome plated chromoly blade for durability and rigidity Magnet at the end of the chain holds the chain for easier storage Ergonomic handle
Compatibility	SHIMANO 9-12-speed 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	<ul style="list-style-type: none"> Curved head design for better grip on gears Precise and durable SHIMANO chain equipped Chrome plated chromoly blade for durability and rigidity Magnet at the end of the chain holds the chain for easier storage Ergonomic handle
Remark	This tool can remove fixed gear lock rings, but cannot remove fixed gear sprockets due to the position of the chain fixed to the blade
Code no.	Y13098510

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

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

Bottom bracket

TL-FC24 Bottom bracket cup tool

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



TL-FC34 Bottom bracket cup tool



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



TL-FC36 HOLLOWTECH II bottom bracket cup tool



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



TL-FC37 SM-BBR60 bottom bracket cup tool



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



TL-FC25 SM-BBR60 bottom bracket cup tool

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



TL-FC33 HOLLOWTECH II bottom bracket cup tool



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



TL-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



Bottom bracket

TL-BB12 Press-fit bottom bracket installation tool



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



TL-BB13 Press-fit bottom bracket removal tool



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



TL-UN66 Cartridge bottom bracket tool



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



TL-UN74-S Cartridge bottom bracket tool



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



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



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



Crankset

TL-FC40 Power meter crank arm tool

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



TL-FC16 HOLLOWTECH II crank arm tool

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



TL-FC11 Cotterless crank arm extractor



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



TL-FC10 Cotterless crank arm extractor



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



TL-FC15 Crank extractor adapter

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



TL-FC18 HOLLOWTECH II crank arm tool



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



TL-FC22 Chainring nut T40 wrench/peg spanner



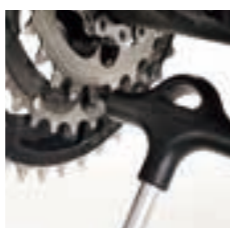
Usage	Holds the slotted Hexalobular T40 chainring fixing nut securely during the installation and removal of the chainring
USP	<ul style="list-style-type: none"> Professional version of TL-FC21 Chrome plated for durability Guide pin stabilizes the tool Ergonomic design
Remark	Best to use with TL-FC23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



TL-FC23 Chainring bolt T30 wrench with 5 mm hex



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



Crankset

TL-FC21 Peg spanner

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



TL-FC41 Front chainring direct mount tool

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



Chain

TL-CN10 QUICK-LINK connecting & removing pliers

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



TL-CN28 6-11-speed compatible chain tool



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

Spare arrow

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



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

Spare arrow

Code no.	Y13098190
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Chain

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



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

Spare pins (10 pins)

Code no. Y13098551



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



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

Spare pins (10 pins)

Code no. Y13098551



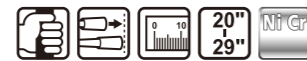
TL-CN42 Chain wear indicator

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



Rear derailleur

TL-RD11 Rear dropout alignment tool



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



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



Improved design



Shift/Brake lever

Special E-ring removal tool for ST

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



Hydraulic disc brake

TL-BH62 Disc brake hose cut & set tool

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



TL-BR001 SYRINGE UNIT

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



TL-BR002 FUNNEL UNIT FOR ST

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



TL-BR003 FUNNEL UNIT FOR BL

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



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

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



Hub

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

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



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



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



TL-FH15 15 mm hex wrench

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



TL-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.	YOMK14000



TL-HB16 Hub setting tool for thru-axle hubs



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



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



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



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



TL-PD40
Pedal axle tool



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



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



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



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



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



NEXUS/ALFINE

TL-DH10
Internal assembly removal tool

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



TL-8S11
Right hand cone removal tool

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



TL-S701
Right hand cone removal tool

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



TL-C7001
Right hand cone removal tool

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



NEXUS/ALFINE

TL-8S20
Right hand cone installation tool

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



TL-AF20
Right hand cone installation tool

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



TL-S702
Right hand cone installation tool

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



TL-AF10
Right hand dust cap A installation tool

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



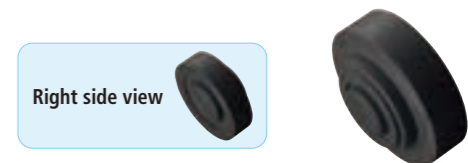
TL-AF30
Left hand inner dust cap installation tool

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



TL-S704
Seal set tool

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



TL-8S30
Carrier unit gear alignment tool

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



TL-IM21
Brake inner cable fixing tool

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



NEXUS/ALFINE

TL-CJ40
Inner cable fixing bolt setting tool

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



TL-S700-B
Inner cable fixing bolt setting tool

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



TL-S703

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

Tube set

Code no.	Y13098025
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TL-SGE1
Gear position alignment tool

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



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



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

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



SHIMANO E-BIKE SYSTEMS

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

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



TL-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



Di2

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

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



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

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



SM-PCE02 PC Linkage Device

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



Others

TL-MH10 Multi-handle tool



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



With TL-FC33

Convertible tools



Service Tips

Tools required for assembly

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



Di2

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

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

2 Brake caliper

	Bolt length selector for rear	Y8N221000
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3 Disc brake rotor

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

4 Bottom bracket

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

5 Crankset

TL-FC18	HOLLOWTECH II/2-PIECE CRANKSET crank arm tool	Y13098280
TL-FC11	Cotterless/OCTALINK crank arm extractor	Y13098210
TL-FC23	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

OTHERS



CLEATS

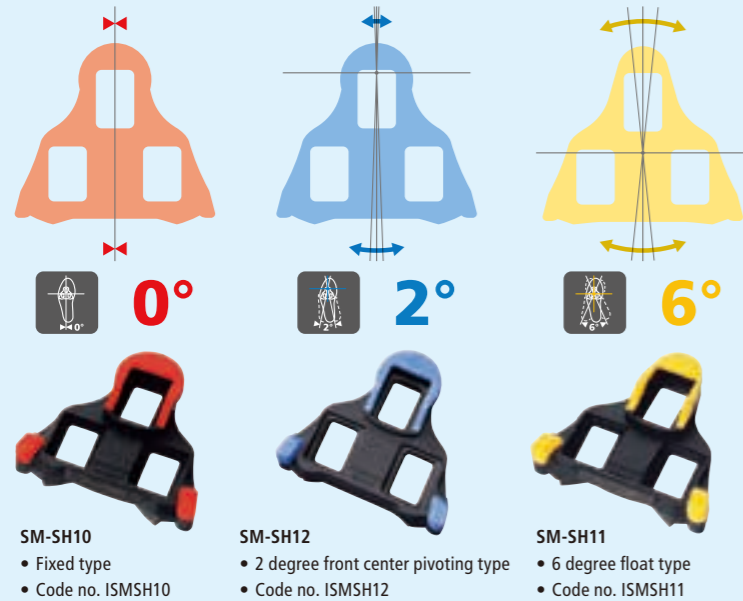


Interface between shoe and pedal

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



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



- SM-SH10**
 - Fixed type
 - Code no. 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



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



- 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

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.



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.



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



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







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








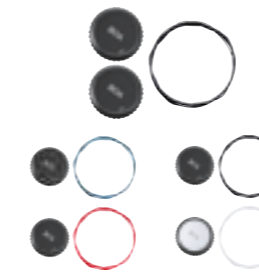




- SM-SH41 SPD Cleat Adapter**
- SPD cleat adapter for 3-hole SPD-SL outsoles
 - For all SPD-SL shoes with 3 holes
 - For SPD cleats (SM-SH51/SM-SH56)
 - Code no. ESMSH41

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

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

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





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



SHOE REPAIR PARTS				
BOA® kit				
	Model no.	Compatibility	Color	Code no.
	BOA® L6 TYPE C REPAIR KIT 1 DIAL	SH-RC702/XC702/MW702/MW701/GE900/GF800GTX	Black	ESMSHME501MBOL01000L ESMSHME501MBOL01000R
	NEW BOA® L6 TYPE Z REPAIR KIT 1 DIAL	SH-RC703/EX900	Black	ESMSHRC703MBOL0100L ESMSHRC703MBOL0100R
		SH-RC703	White	ESMSHRC703MBOW0100L ESMSHRC703MBOW0100R
	BOA® L6 TYPE K REPAIR KIT 1 DIAL	SH-RC502/XC502/MT701GTX/MT701/ME502/RX600/EX700GTX	Clear	ESMSHRC500MBOC0100L ESMSHRC500MBOC0100R
			Black	ESMSHMT701MBOL0100L ESMSHMT701MBOL0100R
	BOA® L6 TYPE E REPAIR KIT 1 DIAL	SH-RC302/RC300/XC300/ET701/ET700/EX700	Black	ESMSHRC300MBOL0100L ESMSHRC300MBOL0100R
			White	ESMSHRC300MBOW0100L ESMSHRC300MBOW0100R
	BOA® L6 TYPE K REPAIR KIT 1 DIAL	SH-IC500/IC300/IC501	Clear	ESMSHIC500WBOC0100L ESMSHIC500WBOC0100R
	BOA® L6 TYPE Z REPAIR KIT 1 DIAL	SH-EX900	Gray	ESMSHEX900MBOG0100L ESMSHEX900MBOG0100R
	NEW BOA® L12 TYPE F REPAIR KIT 2 DIALS	SH-XC903/TR903	Black	ESMSHXC903MBOL0100L ESMSHXC903MBOL0100R
		SH-XC903	White	ESMSHXC903MBOW0100L ESMSHXC903MBOW0100R
	BOA® L12 TYPE A REPAIR KIT 2 DIALS	SH-RC903/RC902/XC902	Blue	ESMSHRC902MBOB0100L ESMSHRC902MBOB0100R
			Black	ESMSHRC902MBOL0100L ESMSHRC902MBOL0100R
			Red	ESMSHRC902MBOR0100L ESMSHRC902MBOR0100R
			White	ESMSHRC902MBOW0100L ESMSHRC902MBOW0100R
	BOA® L12 TYPE C REPAIR KIT 1 DIAL	SH-RC902T	White	ESMSHRC902TBOW0100L ESMSHRC902TBOW0100R
	BOA® L12 TYPE C REPAIR KIT 1 DIAL	SH-RX801R/RX801	Black	ESMSHRC902TBOL0100L ESMSHRC902TBOL0100R
	BOA® IP1 REPAIR KIT 2 DIALS	SH-RC901/XC901	Blue	ESMSHRC901MBOB01000L ESMSHRC901MBOB01000R
			Black	ESMSHRC901MBOL01000L ESMSHRC901MBOL01000R
			White	ESMSHRC901MBOW01000L ESMSHRC901MBOW01000R
	BOA® IP1 REPAIR KIT 1 DIAL	SH-RX800	Black	ESMSHRX800MBOL0100L ESMSHRX800MBOL0100R








OTHERS

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Buckle & strap set					
	Model no.	Compatibility	Size	Color	Code no.
	BUCKLE & STRAP SET	SH-RP301/ME702/ME701/ME301		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			ESMSHAM903MSLL010000

Heel pads					
	Model no.	Compatibility	Size	Color	Code no.
	REPLACEABLE HEEL PADS	SH-RC901/RC901T	36 - 39.5		ESMSHRC900HPS
			40 - 43.5		ESMSHRC900HPM
			44 - 48		ESMSHRC900HPL
	REPLACEABLE HEEL PADS	SH-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-GE900/GE700/GE500/AM903/AM503/GF800GTX/GF600/GF400/GR903/GR501/MX100/ME502/ME100/MW501/EX900/EX700/EX700GTX/EX500/EX300/MT701GTX/MT701/MT502/ET701/ET700/ET501/ET500/ET300/XM900/CT500/IC300	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-GE900/GE700/GE500/AM903/AM503/GF800GTX/GF600/GF400/GR903/GR501/MX100/ME502/ME100/MW501/EX900/EX700/EX700GTX/EX500/EX300/MT701GTX/MT701/MT502/ET701/ET700/ET501/ET500/ET300/XM900/CT500/IC300		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/RC901/RC902T/RC901T/RC703/RC702/RC502/RC302/RC300/RC102/RC100/TR903/TR901/TR501/XC903/XC902/XC901/XC702/XC502/XC300/XC100/RX801/RX801R/RX600/RX800/MW702/MW502/IC501/IC500/IC200/IC100/RP101/RP100	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/RC901/RC902T/RC901T/RC703/RC702/RC502/RC302/RC300/RC102/RC100/TR903/TR901/TR501/XC903/XC902/XC901/XC702/XC502/XC300/XC100/RX801/RX801R/RX600/RX800/MW702/MW502/IC501/IC500/IC200/IC100/RP101/RP100	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/MW701		36 - 38	ESMSHM200CPIN38
				38.5 - 40	ESMSHM200CPIN40
				40.5 - 42	ESMSHM200CPIN42
				42.5 - 44	ESMSHM200CPIN44
				44.5 - 46	ESMSHM200CPIN46
				46.5 - 48	ESMSHM200CPIN48
				49 - 50	ESMSHM200CPIN50

Spike				
	Model no.	Compatibility	Color	Code no.
	REMOVABLE TOE SPIKES (TALON SPIKES)	SH-XC903/XC902/XC901/XC702/XC502/MW702	Black	ESMSHXC902MSKL01000
	LOW PROFILE RESIN SPIKES	SH-XC903/XC902/XC901/XC702/XC502/MW702	Gray	ESMSHXC901MSKG01000
	REMOVABLE TOE SPIKES (18 mm height)	SH-XC903/XC902/XC901/XC702/XC502/MW702	Black	ESMSHXC900SPIKE
	REMOVABLE TOE SPIKES (10 mm height)	SH-XC903/XC902/XC901/XC702/XC502/MW702	Black	ESHM225SPIKE
	REMOVABLE TOE SPIKES (7.5 mm height)	SH-XC903/XC902/XC901/XC702/XC502/MW702	Black	ESMSHXC90SPIKE

ACCESSORIES FOR ELECTRONIC PRODUCTS



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

Di2 E-TUBE wires

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

Charging cable

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

Di2 Battery mounts and wire junctions

	Model no.	Series	Description	Code no.
	EW-AD305	SHIMANO	• Conversion adapter for EW-SD50 and EW-SD300	IEWAD305
	EW-JC302		• 2-port junction for EW-SD300	IEWJC302
	EW-JC304		• 4-port junction for EW-SD300	IEWJC304
	SM-EW90		• Junction A (Front) • 3-port	ISMWE90A
			• Junction A (Front) • 5-port	ISMWE90B
	EW-RS910		• Junction A (Built-in type) • 3-port	IEWRS910
	EW-JC130		• Y-split routing • Cable length: 550 mm, 50 mm, 550 mm	IEWJC130MM
			• Y-split routing • Cable length: 350 mm, 50 mm, 450 mm	IEWJC130SM
			• Y-split routing • Cable length: 350 mm, 50 mm, 250 mm	IEWJC130SS
	EW-JC200		• 2-port junction	IEWJC200
	SM-JC41	• Junction B • Internal wire routing	ISMJC41	

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

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

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

BRACKET COVERS



Bracket covers

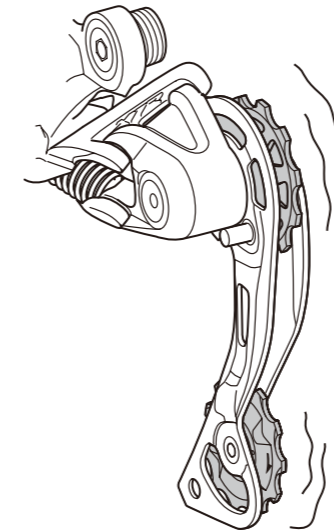
Model no.	Series	Color	Unit	Code no.
ST-R9270	DURA-ACE	Black	pair	Y0MX98010
ST-R9250		Black	pair	Y0N798010
ST-R9170		Black	pair	Y0CA98010
ST-R9150		Black	pair	Y0C898010
ST-R9120		Black	pair	Y0C698010
ST-R9100		Black	pair	Y0BF98010
ST-R8170	ULTEGRA	Black	pair	Y0N598010
ST-R8070		Black	pair	Y0E698010
ST-R8050		Black	pair	Y0E298010
ST-R8020/ST-R8025		Black	pair	Y0E098010
ST-R8000		Black	pair	Y0DK98010
ST-6800		Black	pair	Y00E98080
ST-6700		Black	pair	Y65C98180
ST-R7170		SHIMANO 105	Black	pair
ST-R7000	SHIMANO 105	Black	pair	Y0DK98010
ST-R7020/ST-R7025 ST-R4720/ST-R4725 ST-RX600/ST-RX400 BL-RX600-L	SHIMANO 105 TIAGRA GRX	Black	pair	Y0F398010
NEW ST-RX825	GRX	Black	pair	Y0SL98020
NEW ST-RX820		Black	pair	Y0RY98010
NEW 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-R5505		Black	pair	Y03N98020
ST-R5405		Black	pair	Y03N98020

Service Tips

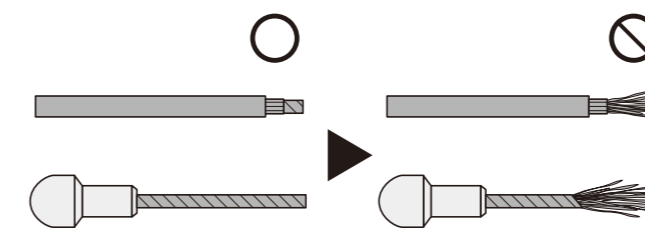
Replacement timing depends on the conditions you ride in, type of terrains, and riding style. It is always better to replace parts before they are completely worn out.

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.



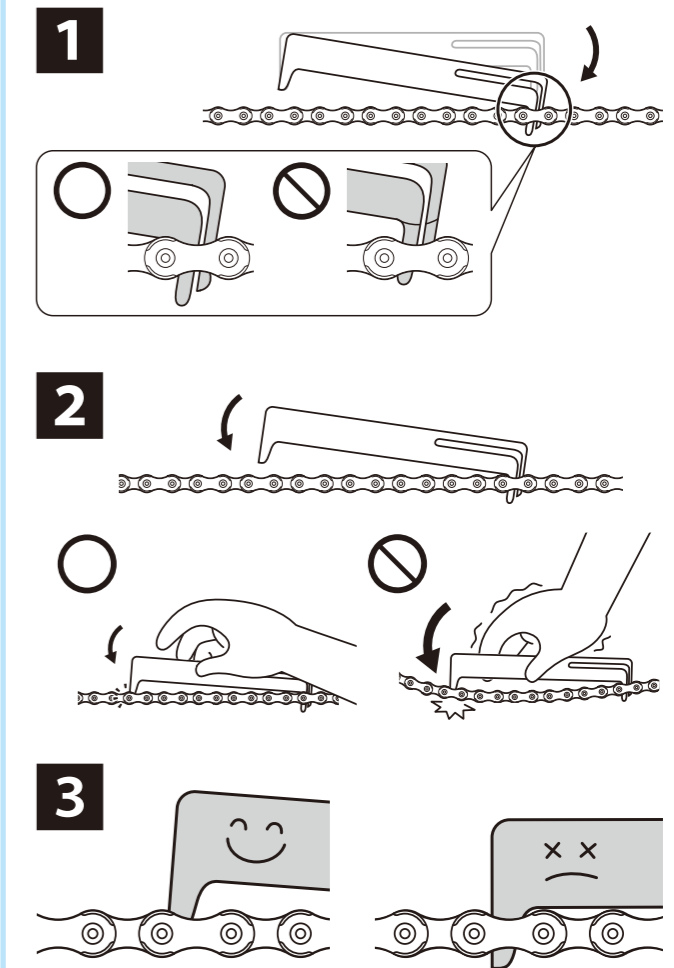
Cables (brake and shift)



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

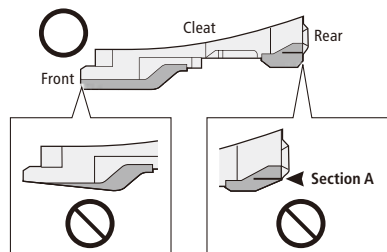
SHIMANO chain wear indicator allows you to check the chain wear accurately, easily and quickly. The design of the TL-CN42 chain wear indicator prevents roller wear from affecting the reading.

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

Service Tips

SPD-SL Cleat

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



Note

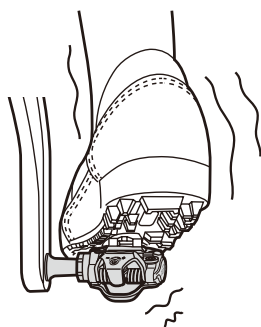
If the yellow (SM-SH11) or red (SM-SH10) or blue (SM-SH12) portions of the cleats become worn, replace the cleats with new ones.

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

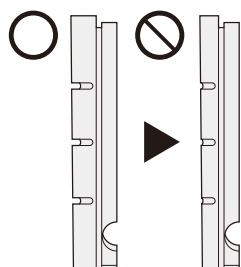
Cleats wear out over time and should be replaced periodically. Cleats should be replaced when it becomes difficult to release, or it starts to release with much less effort than the when it was in new condition.



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

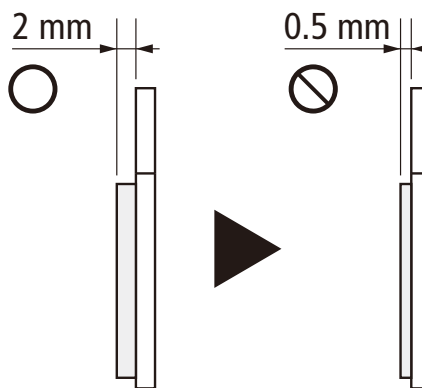
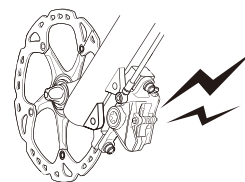
Please check the thickness of the brake pad for replacement periodically.

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