



2019-2020

Products compatibility Information

Compatibilities are subject to change without prior

Visit SHIMANO PRODUCT WEBSITE for the latest information.

Word definitions

BB	Bottom bracket	HP	Head parts
BC	Brake cable	HRB	Hub roller brake
BCC	Charger cord	I-SPEC	Integration mounting system of brake and shifting lever
BCR	Battery charger		
BH	Disc brake hose	ID	CI-DECK
BL	Brake lever	JC	Junction
BM	Battery mount	LP	Light
BR	Brake caliper	MF	Multiple freewheel
BTC	Battery case	MU	Motor unit
BTH	Battery holder	O.L.D.	Over Locknut Dimension
BTR	Battery	OT	Outer casing
CB	Coaster brake	P.C.D.	Pitch Circle Diameter
CD	Chain device	PCE	PC Linkage device
CG	Chain guard	PD	Pedal
CJ	Cassette joint	PM	POWER MODULATOR
CN	Chain	QR	Quick release
CP	Spoke protector	RD	Rear derailleur
CR	Chainring	RT	Disc brake rotor
CS	Cassette sprocket	RTAD	Disc brake rotor adapter
CT	Chain tensioner	SB	REVOSHIFT shifter integrated with brake lever
DH	Hub dynamo		
DU	Drive unit	SC	Cycle computer System information display
EC	Battery charger		
EW	Electric wire	SF	Single freewheel
EWC	Cord cover	SG	Internal geared hub
EWEX	DI2 adapter	SL	Shifting lever
EWV	Wireless unit	SPD	SHIMANO PEDALING DYNAMICS
FC	Front chainwheel Crankarm	SPD-SL	SHIMANO PEDALING DYNAMICS-SL
		ST	DUAL CONTROL LEVER / shifting lever integrated with brake lever
FD	Front derailleur		
FH	FREEHUB	SW	Switch unit
GM	Grommet	WH	Wheel
HB	Front hub		

Compatibility

Drivetrain for MTB components C-432

Rear drivetrain compatibility [MTB]

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C-546

Front drivetrain compatibility [MTB]

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Front derailleur and front chainwheel

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Front derailleur and chain line (TOURNEY)

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Front chainwheel, bottom bracket and chain line [MTB]

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Drivetrain for ROAD, Gravel/Adventure, URBAN (METREA) components C-453

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Front drivetrain compatibility

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Brake systems compatibility [ROAD]

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Hydraulic systems compatibility [ROAD, Gravel/Adventure]

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Hydraulic systems compatibility [URBAN (METREA)]

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I-SPEC C-156

Compatibility of I-SPEC shifter and brake lever

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Disc brake C-460

Disc brake caliper and disc brake rotor compatibility

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Compatibility between brake systems (MT400 series)

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Combination chart (Mechanical Disc)

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Disc brake mount adapter

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URBAN (ALFINE, NEXUS) components C-470

Available combinations of the rear dropout, cassette sprocket/single gear and front chainwheel for designing the frame

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Spoke protector C-298

Spoke protector

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MTB

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ROAD, URBAN (METREA)

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Spoke protector for Road

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E-BIKE compatibility chart C-431

E-BIKE system (with E-TUBE PROJECT ver.3.4.3)

C-525

Drivetrain compatibility

C-488

Battery and battery mount compatibility

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Battery and battery charger compatibility

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Electronic Product Information C-472

E-TUBE compatibility chart with E-TUBE PROJECT ver.3.4.3

C-473

DI2 adapter compatibility

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CI-DECK C-547

Compatibility between Bracket and ID/SC

C-548

Rear drivetrain compatibility [MTB]

C-433

9,10,11-speed rear drivetrain compatibility C-434

	SL	RD	CS	CN	FH / WH
MTB 9-speed	9-speed	9-speed	9-speed	HG 9-speed	
MTB 10-speed	MTB 10-speed	MTB 10-speed	10-speed	HG-X 10-speed	9-speed 10-speed 11-speed
MTB 11-speed	MTB 11-speed	MTB 11-speed	11-speed	HG-X11 11-speed	

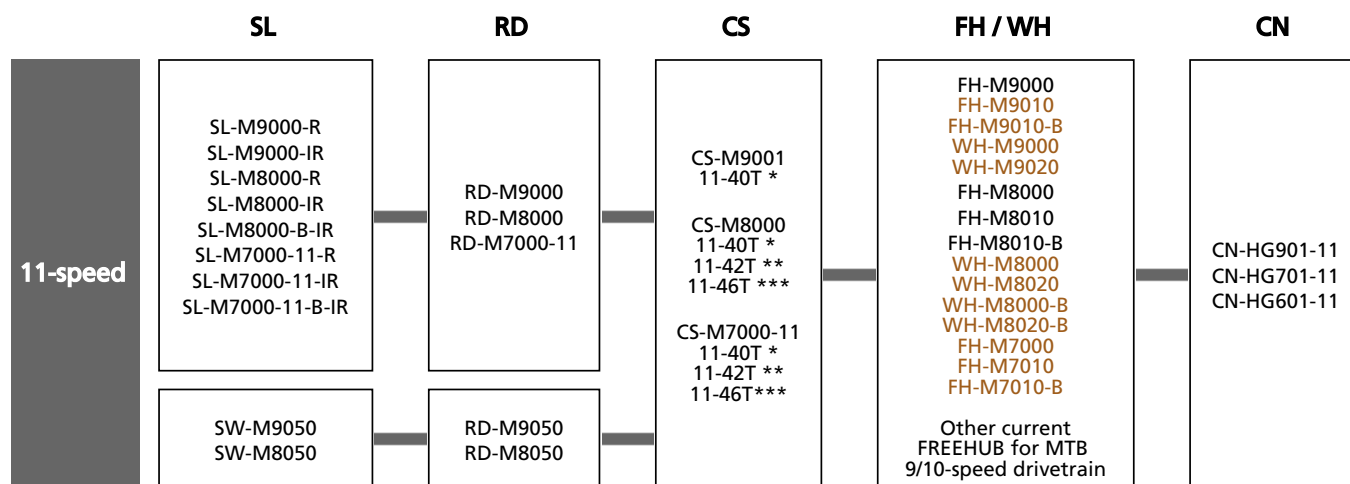
12-speed rear drivetrain (MICRO SPLINE) [MTB] C-558

	SL	RD *	CS	FH / WH	CN
12-speed	SL-M9100-R SL-M9100-IR SL-M8100-R SL-M8100-IR SL-M7100-R SL-M7100-IR	RD-M9100-SGS RD-M8100-SGS RD-M7100-SGS (1x12-speed)	CS-M9100-12 CS-M8100-12 CS-M7100-12 (10-51T)	FH-M9111 / -B / -BS FH-M8110 / -B / -BS FH-M8130-B FH-M7110 / -B FH-M7130-B FH-MT901-B / -BS FH-MT500 / -B FH-MT510 / -B	CN-M9100 CN-M8100 CN-M7100
		RD-M9100-GS RD-M9120-SGS RD-M8120-SGS RD-M7120-SGS (1x12-speed)	CS-M9100-12 CS-M8100-12 CS-M7100-12 (10-45T)	WH-M8100 WH-M8120 WH-MT620 WH-MT501	
		RD-M9120-SGS RD-M8120-SGS RD-M7120-SGS (2x12-speed)			

* Method to adjust the end adjustment screw is different from conventional rear derailleurs. For details, refer to dealer's manual.

11-speed rear drivetrain [MTB] C-435

XTR M9000 / DEORE XT M8000 / SLX M7000 Series

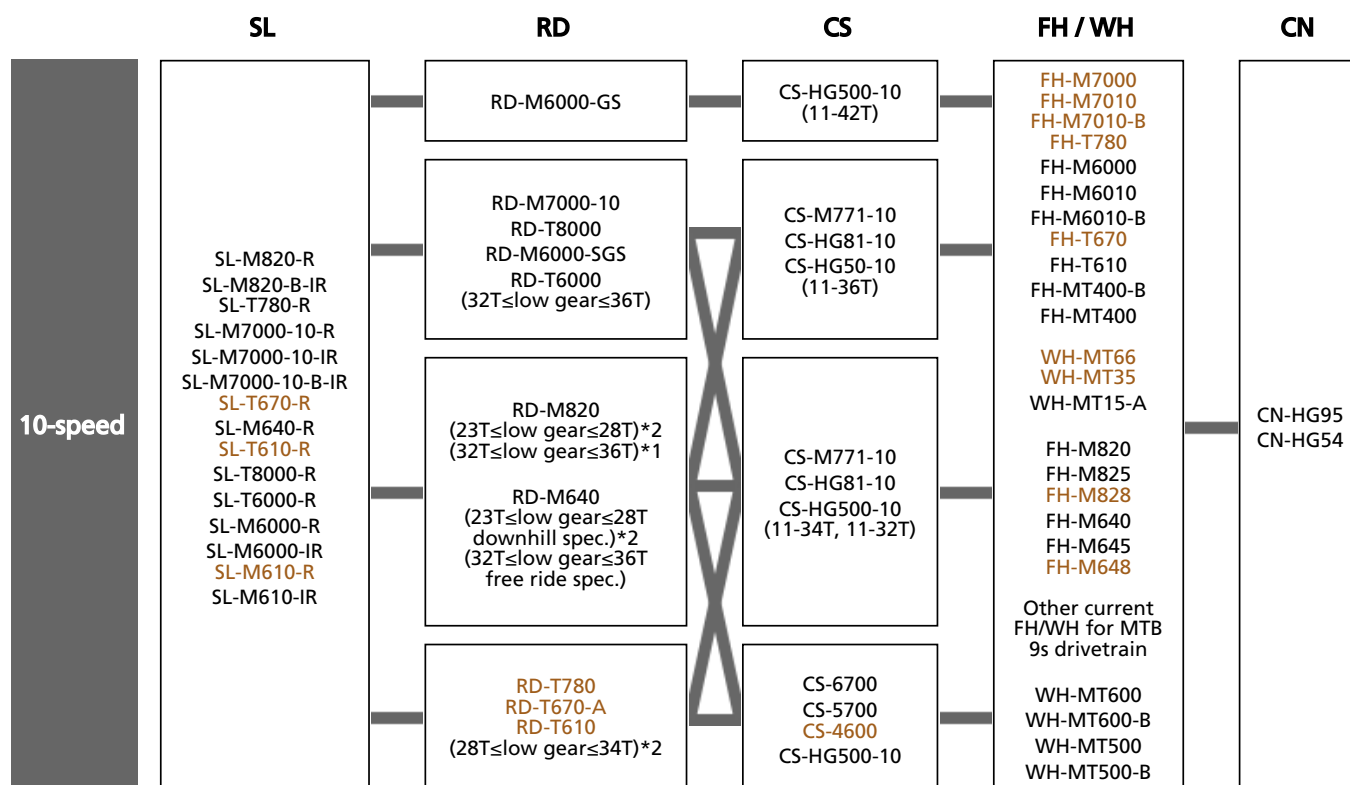


* 3/2/1x11-speed drive train

** 2/1x11-speed drive train

*** Only for 1x11-speed drivetrain

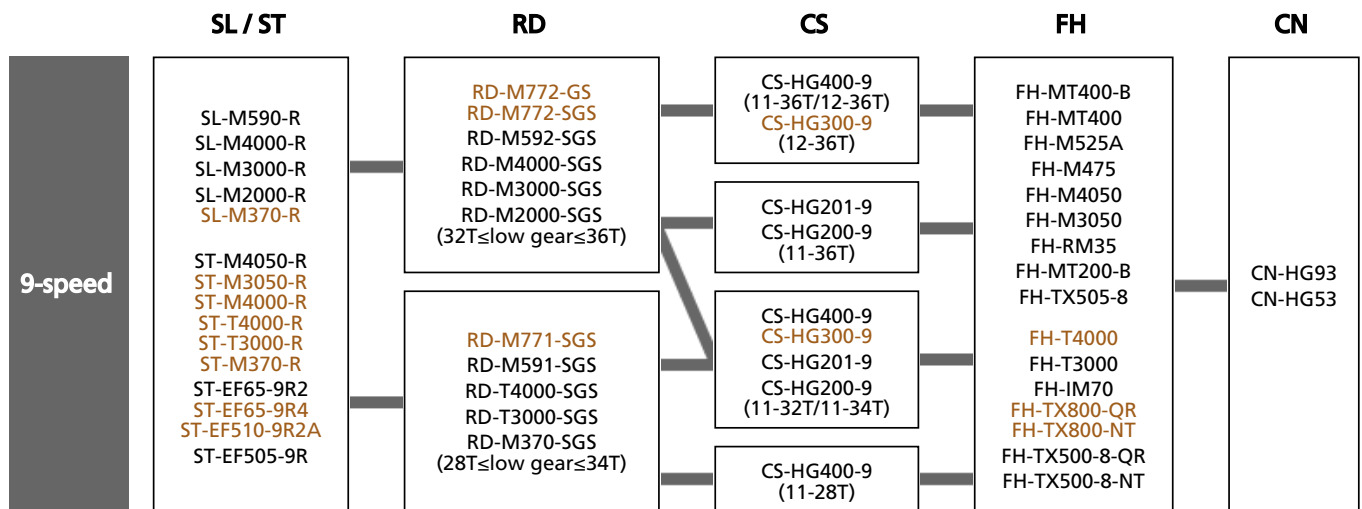
10-speed rear drivetrain [MTB] C-436



*1 Mode converter

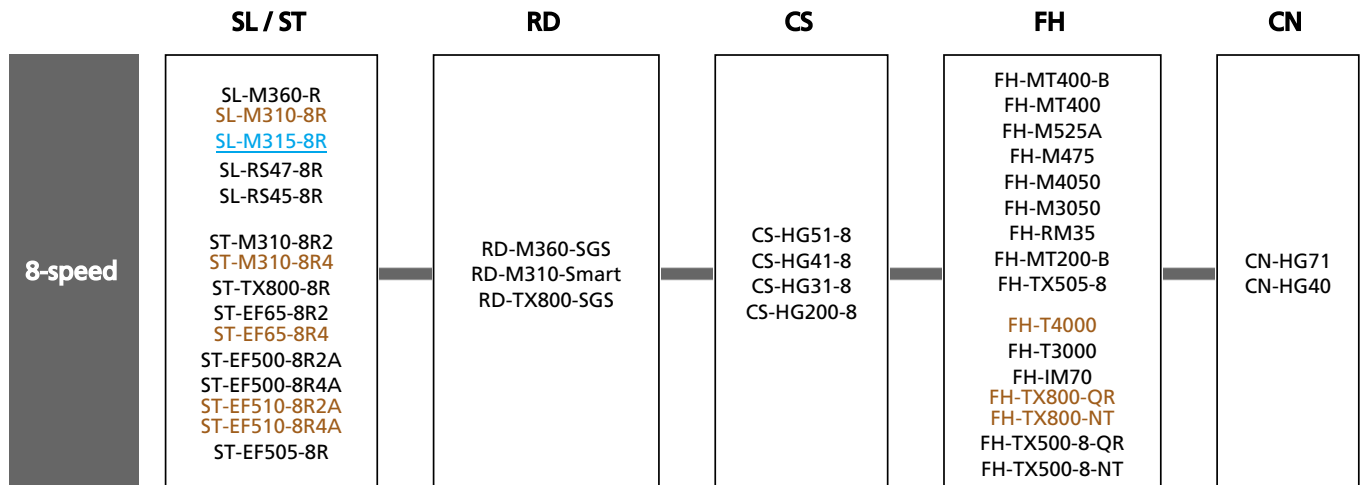
*2 Compatible with road Cassette sprocket

9-speed rear drivetrain [MTB] C-437

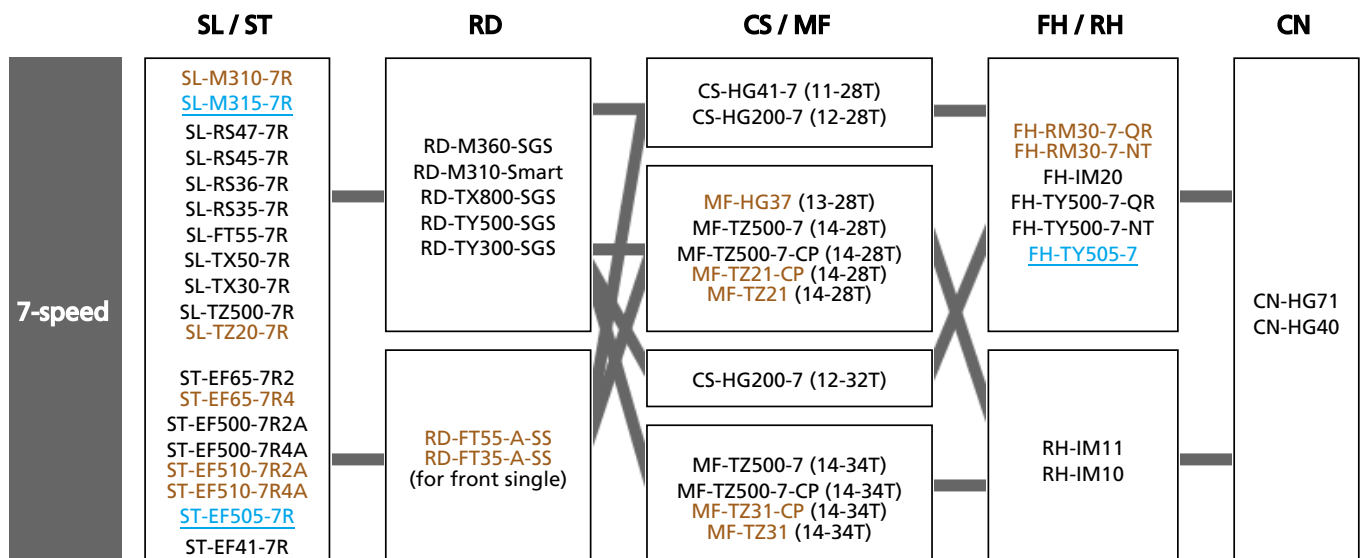


8-speed HG [MTB] C-438

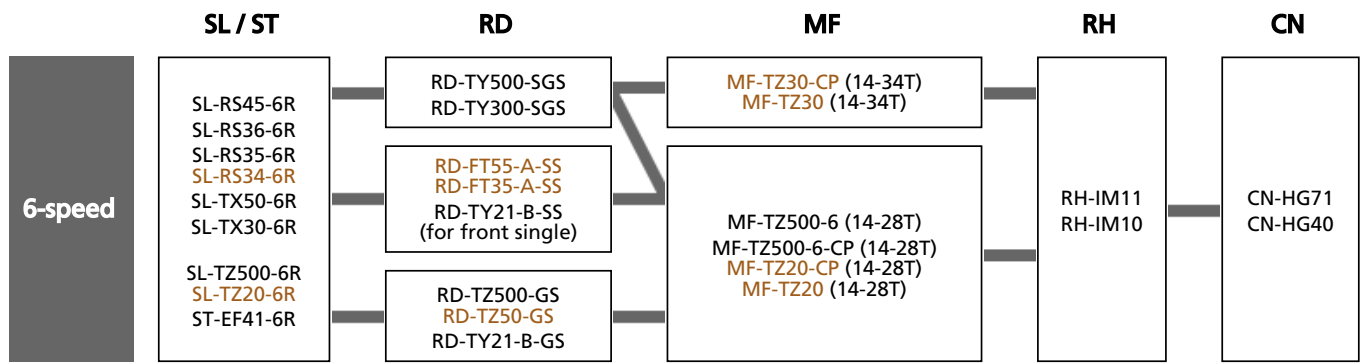
The rear derailleur for 8-speed can also be used for 7-speed drivetrain.



7-speed HG [MTB] C-439

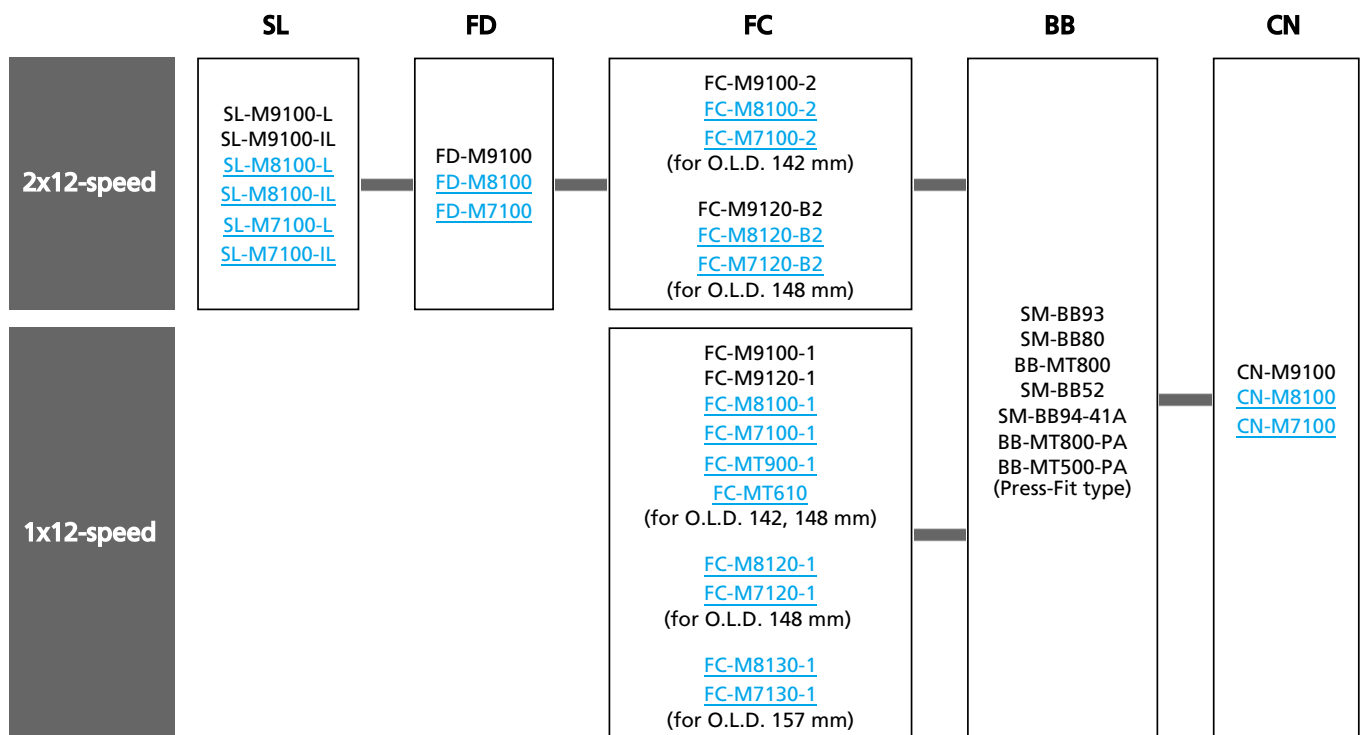


6-speed HG and 6-speed [MTB] C-546

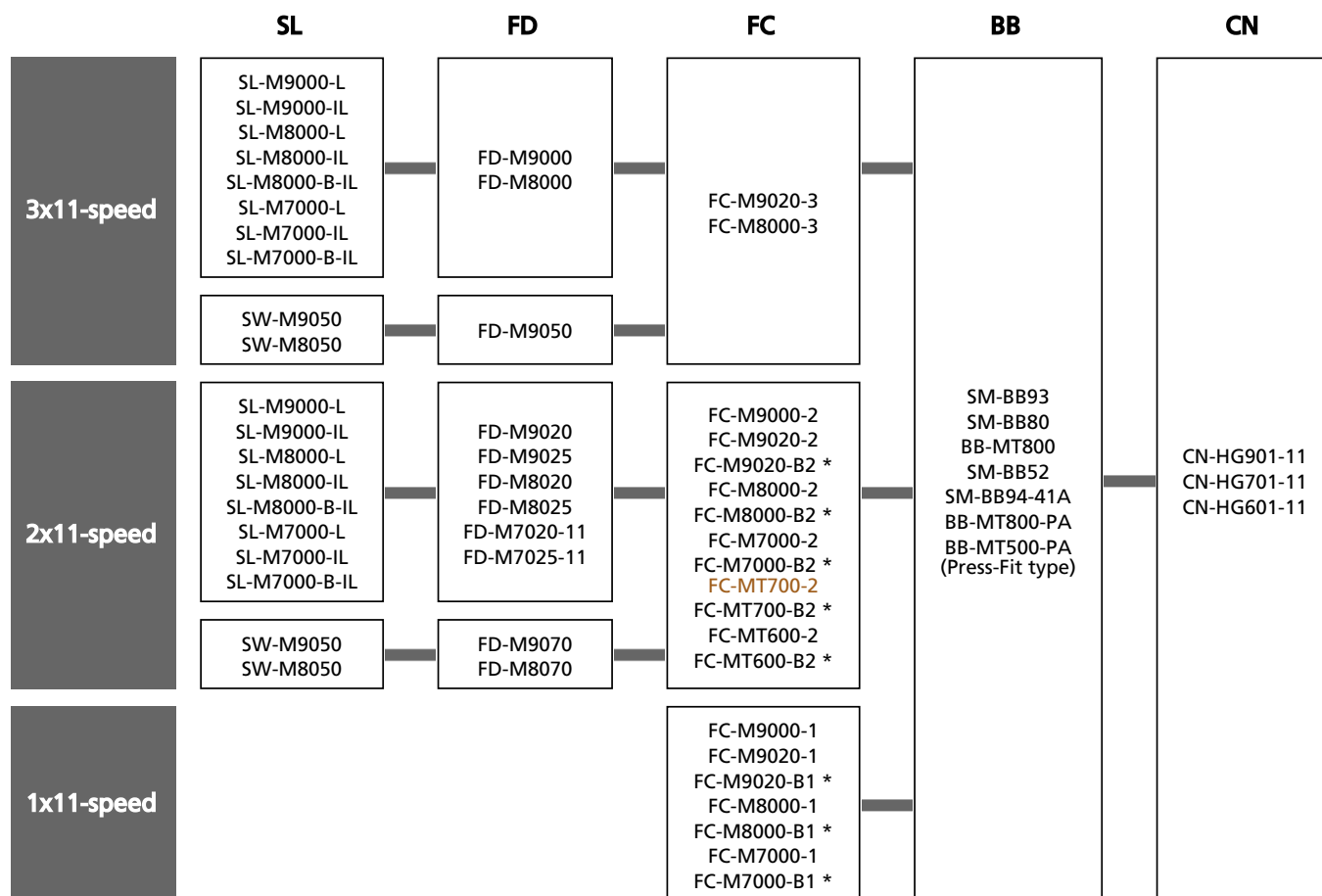


Front drivetrain compatibility [MTB] C-440

12-speed front drivetrain C-559



11-speed front drivetrain C-441



NOTE

* It also requires new dimension of frame which cassette position is 3 mm outboard

10-speed front drivetrain [MTB] C-442

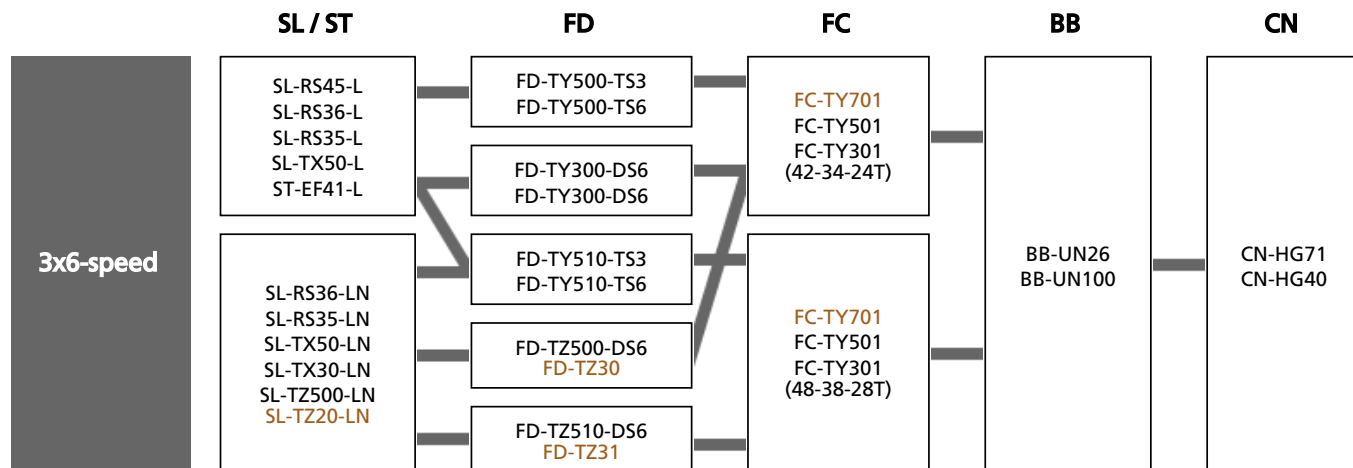
	SL	FD	FC	BB	CN
3x10-speed	SL-M7000-L SL-M7000-IL SL-M7000-B-IL SL-M6000-L SL-M6000-IL SL-M610-L SL-M610-IL	FD-M7000-10 FD-M7005-10 FD-M611 FD-M610 FD-M6000	FC-M552 (42-32-24T) FC-M7000-10 (40-30-22T) FC-M622 (40-30-22T) FC-M523 (40-30-22T) FC-MT500-3 (40-30-22T) FC-M6000-3	SM-BB93 SM-BB80 BB-MT800 SM-BB52	
2x10-speed	SL-M7000-L SL-M7000-IL SL-M7000-B-IL SL-M6000-L SL-M6000-IL SL-M610-L SL-M610-IL	FD-M617 FD-M618 FD-M6020 FD-M6025	FC-M627 (38-24T) FC-M627 (36-22T) FC-M627-B (36-22T) FC-M617 (38-24T) FC-M617 (36-22T) FC-M617-B2 (36-22T) FC-M6000-2 FC-M6000-B2 FC-MT500-2 FC-MT500-B2	SM-BB94-41A BB-MT800-PA BB-MT500-PA BB-ES300 (FC-M522) (FC-M523) (OCTALINK)	CN-HG95 CN-HG54
	SL	FD	FC	BB	CN
3x10-speed Trekking	SL-T8000-L SL-T780-L SL-M780-L SL-M780-B-IL SL-T670-L SL-M670-L SL-M670-B-IL SL-T610-L SL-M610-L SL-M591-L SL-T6000-L	FD-T8000-3 FD-T8000-6 FD-T780-3 FD-T780-6 FD-T781-3 FD-T670-3 FD-T670-6 FD-T671-3 FD-T610-3 FD-T610-6 FD-T611-3 FD-T6000-3 FD-T6000-6	FC-T8000 (48-36-26T) FC-T780 (48-36-26T) FC-T781 (48-36-26T) FC-T781 (44-32-24T) FC-T671 (48-36-26T) FC-T671 (44-32-24T) FC-M610 (48-36-26T) FC-M670 (48-36-26T) FC-T611 (48-36-26T) FC-T611 (44-32-24T) FC-T6010 (48-36-26T) FC-T6010 (44-32-24T) FC-T551 (48-36-26T) FC-T551 (44-32-24T) FC-T521 (48-36-26T) FC-T521 (44-32-24T)	SM-BB93 BB-MT800 SM-BB52 SM-BB94-41A BB-MT800-PA BB-MT500-PA BB-E300 (FC-T521) (Square type)	CN-M981 CN-M980 CN-HG95 CN-HG94 CN-HG75 CN-HG74 CN-HG54

9-speed FC-FD compatibility [MTB] C-445

	SL / ST	FD	FC	BB	CN
3x9-speed	SL-M590-L SL-M4000-L SL-M3000-L SL-M2000-L SL-M370-L ST-M4050-L ST-M3050-L ST-M4000-L ST-T4000-L ST-T3000-L ST-M370-L ST-EF65-L2 ST-EF65-L4 ST-EF510-L2A ST-EF500-L2A ST-EF500-L4A ST-EF505-L	FD-M660-E FD-M661-D (for 44-32-22T only)	FC-MT300 FC-MT210-3 (44-32-22T only) FC-M590 FC-M591 FC-T4060 (44-32-22T / 48-36-26T) FC-M4060 (48-36-26T only)	BB-MT500 SM-BB52 BB-MT500-PA	CN-HG93 CN-HG53
		FD-T4000-TS3 FD-T4000-TS6 FD-T4000-DS3 FD-T3000-TS3 FD-T3000-TS6 FD-M370-3 FD-M370-6 FD-M371-3 FD-M371-6	FC-T4010 FC-T3010-8 (44-32-22T / 48-36-26T)		
		FD-M4000-TS3 FD-M4000-TS6 FD-M4000-DS3 FD-M4000-DS6 FD-M4000-M FD-M3000-TS3 FD-M3000-TS6 FD-M2000-TS3 FD-M2000-TS6 FD-M2000-DS3 FD-M2000-DS6	FC-T3010 FC-M371 (44-32-22T / 48-36-26T) FC-MT101 (44-32-22T only) FC-M351 (44-32-22T only)	BB-ES300	
			FC-M4050 FC-MT300 FC-MT210-3 (40-30-22T only)	BB-UN55 BB-UN26 BB-UN100	
			FC-M4000 FC-M3000-8 (40-30-22T)		
			FC-M3000 (40-30-22T)	BB-UN55 BB-UN26	
2x9-speed	SL-M4010-L SL-M3010-L ST-EF505-2L	FD-M4020-D FD-M4020-E FD-M4020-M	FC-MT210-2 (36-22T)	SM-BB52 BB-MT500-PA BB-MT500	
		FD-T3000-2-TS3	FC-MT210-2 (46-30T)		
		FD-M4020-D FD-M4020-E FD-M4020-M-B	FC-M4050-B2 FC-MT210-B2		
			FC-M3000-B2	BB-UN55 BB-UN26	

8,7,6-speed triple FC-FD compatibility [MTB] C-446

	SL / ST	FD	FC	BB	CN
3x8-speed	SL-M360-L SL-M310-L SL-RS47-L SL-RS45-L ST-M310-L2 ST-M310-L4 ST-TX800-L ST-EF65-L2 ST-EF65-L4 ST-EF500-L2A ST-EF500-L4A ST-EF510-L2A ST-EF510-L4A ST-EF505-L	FD-M410-E (for 42-32-22T only)	FC-M361 FC-M311 FC-TX801 (42-32-22T)	BB-UN26 BB-UN100	CN-HG71 CN-HG40
		FD-M313-3 FD-M313-6 FD-M310-3 FD-M310-6 FD-TX800-TS3 FD-TX800-TS6	FC-TY701 FC-TY501 FC-TY301 (42-34-24T)		
		FD-TY700-TS3 FD-TY700-TS6	FC-M361 FC-M311 FC-TX801 FC-TY701 FC-TY501 FC-TY301 (48-38-28T)		
		FD-TY710-TS3 FD-TY710-TS6			
2x8-speed	SL-M315-L ST-EF505-2L	FD-M315-TS	FC-M315-2 FC-M315-B2		
		FD-TY710-2-TS3	FC-TY501-2		
3x7-speed	SL-M310-L SL-RS47-L SL-RS45-L SL-RS36-L SL-RS35-L SL-TX50-L ST-EF65-L2 ST-EF65-L4 ST-EF500-L2A ST-EF500-L4A ST-EF505-L ST-EF510-L2A ST-EF510-L4A ST-EF41-L	FD-M410-E (for 42-32-22T only)	FC-M361 FC-M311 FC-TX801 (42-32-22T)	BB-UN26 BB-UN100	CN-HG71 CN-HG40
		FD-M313-3 FD-M313-6 FD-M310-3 FD-M310-6 FD-TX800-TS3 FD-TX800-TS6			
		FD-TY700-TS3 FD-TY700-TS6	FC-TY701 FC-TY501 FC-TY301 (42-34-24T)		
		FD-TY500-TS3 FD-TY500-TS6			
		FD-TY300-DS6 FD-TY300-DS6			
		FD-TY710-TS3 FD-TY710-TS6			
	SL-TX30-LN SL-TZ500-LN SL-TZ20-LN SL-RS36-LN SL-RS35-LN SL-TX50-LN	FD-TY510-TS3 FD-TY510-TS6	FC-M361 FC-M311 FC-TX801 FC-TY701 FC-TY501 FC-TY301 (48-38-28T)		
		FD-TZ500-DS6 FD-TZ30			
		FD-TZ510-DS6 FD-TZ31			
2x7-speed	SL-M315-L ST-EF505-2L	FD-M315-TS	FC-M315-2 FC-M315-B2		
		FD-TY710-2-TS3	FC-TY501-2		



Front derailleur and front chainwheel

C-447

The allowable combinations of front derailleurs depend on the difference in the number of teeth of the gears and the shape of the front derailleur plate.

If the conditions given below are not satisfied, then the desired shiftability may not be obtained.

$$\begin{aligned} &FC (\text{top gear}) - (\text{low gear}) \leq FD (\text{top and low capacity}) \\ &FC (\text{top gear}) - (\text{middle gear}) = FD (\text{allowance of difference in teeth number between top and middle}) \end{aligned}$$

Each front derailleurs and the number of teeth of corresponding front chainwheels are given in the compatibility chart.

Front derailleur and chain line (TOURNEY)

C-448

The SHIMANO line-up for front derailleurs and the chain lines they support are given in the chart below.

		28.6 mm (S)	31.8 mm (M)	34.9 mm (L)
Chain line (mm)	FD-TY300	47.5		50.0
	FD-TZ510-DS6 FD-TZ500-DS6 FD-TZ31 FD-TZ30	47.5		-

Front chainwheel, bottom bracket and chain line [MTB]

C-449

In order to use SIS (SHIMANO INDEX SYSTEM) to its full extent, the required correct chain line, along with the front chainwheel and bottom bracket required to obtain that, are given in the chart below.

Separate type FC-BB compatibility [MTB] C-450

Speed	Series	Front Chainwheel				Bottom bracket	Chain line and axle mark					
		Model No.	Type of crank				Model No.	47.5 mm	50.0 mm	52.5 mm	47.5+t mm	48.8 mm
			OCTALINK	Square	Chain case							
10	SHIMANO	FC-M523	✓	–	–	BB-ES300	–	118	–	–	–	–
		FC-M522	✓	–	–	BB-ES300	–	113	–	–	–	–
9	SHIMANO	FC-M521	✓	–	✓*	BB-ES300-AK	–	**	–	–	–	–
	ALIVIO	FC-M4000	✓	–	–	BB-ES300	–	118	–	–	–	–
		FC-T4010	✓	–	✓*	BB-ES300(-K)	–	126(-K)	–	–	–	–
		FC-M430-8	✓	–	–	BB-ES300(-E)	–	118(-E)	–	–	–	–
		FC-M430	–	✓	–	BB-UN26(-E)	–	LL113(-E)	–	–	–	–
		FC-M3000-8	✓	–	–	BB-ES300	–	118	–	–	–	–
	ACERA	FC-M3000	–	✓	–	BB-UN26	–	LL113	–	–	–	–
		FC-M3000-B2	–	✓	–	BB-UN26	–	LL113	–	–	–	–
		FC-T3010-8	✓	–	✓*	BB-ES300(-K)	–	126(-K)	–	–	–	–
		FC-T3010	–	✓	✓*	BB-UN26(-K)	–	LL123(-K)	–	–	–	–
	ALTUS	FC-M2000	–	✓	–	BB-UN26 BB-UN100	–	LL123(-K)	–	–	–	–
	SHIMANO	FC-MT100	–	✓	–	BB-UN26 BB-UN100	–	LL123	–	–	–	–
		FC-M371	–	✓	✓*	BB-UN26(-K)	–	LL123(-K)	–	–	–	–
		FC-M351	–	✓	✓*	BB-UN26(-K)	–	LL123(-K)	–	–	–	–
8, 7	ACERA ALTUS	FC-M361 FC-M311	–	✓	✓*	BB-UN26(-K)	–	LL123(-K)	–	–	–	–
	TOURNEY	FC-TX801	–	✓	✓*	BB-UN26(-K) BB-UN100(-K)	–	LL123(-K)	–	–	–	–
	SHIMANO	FC-M315-2	–	✓	–	BB-UN26 BB-UN100	–	–	–	–	LL123	–
		FC-M315-B2	–	✓	–	BB-UN26 BB-UN100	–	–	–	–	–	LL123
		FC-TY501-2	–	✓	–	BB-UN26 BB-UN100	–	–	–	–	LL123	–
8, 7, 6	SHIMANO	FC-TY701 FC-TY501 FC-TY301	–	✓	✓	BB-UN26(-K) BB-UN100(-K)	D-NL (122.5)	BB-UN26(-K) D-EL(-K)	–	D-NL-K (122.5)	–	–

*: Chain case stay thickness should be 1.5 mm to 2.1 mm.

**: Please refer to [C-445](#) for detailed combination.

NOTE

If using a chain case, select a BB-xxxx (-K) / -K bottom bracket.

If using an E-type front derailleur, select a BB-xxxx (-E) bottom bracket.

FC-M521: Use 121AK with 1.8 mm spacer if no chain case used.

Drivetrain for ROAD, Gravel/Adventure, URBAN (METREA) components

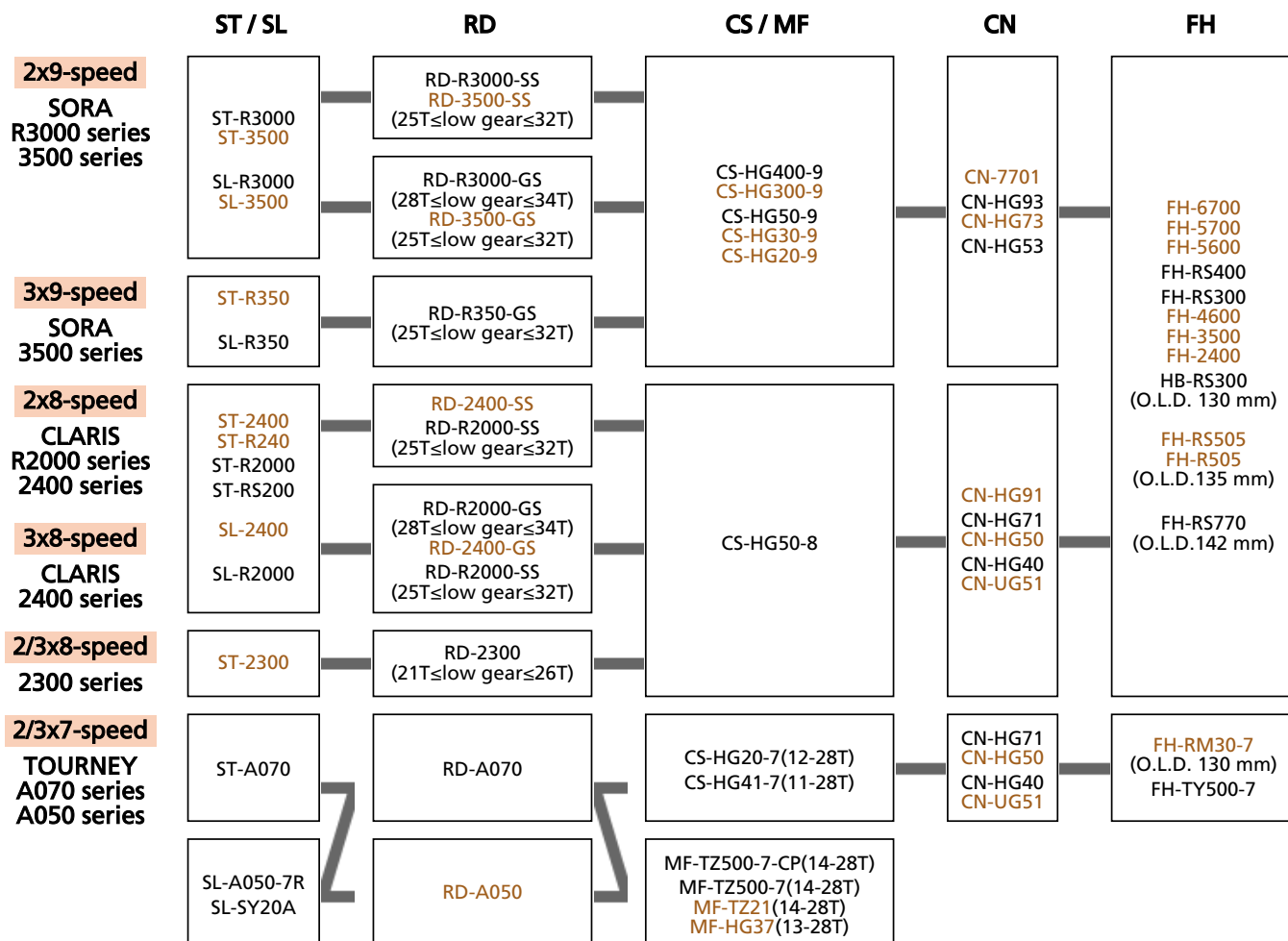
C-453

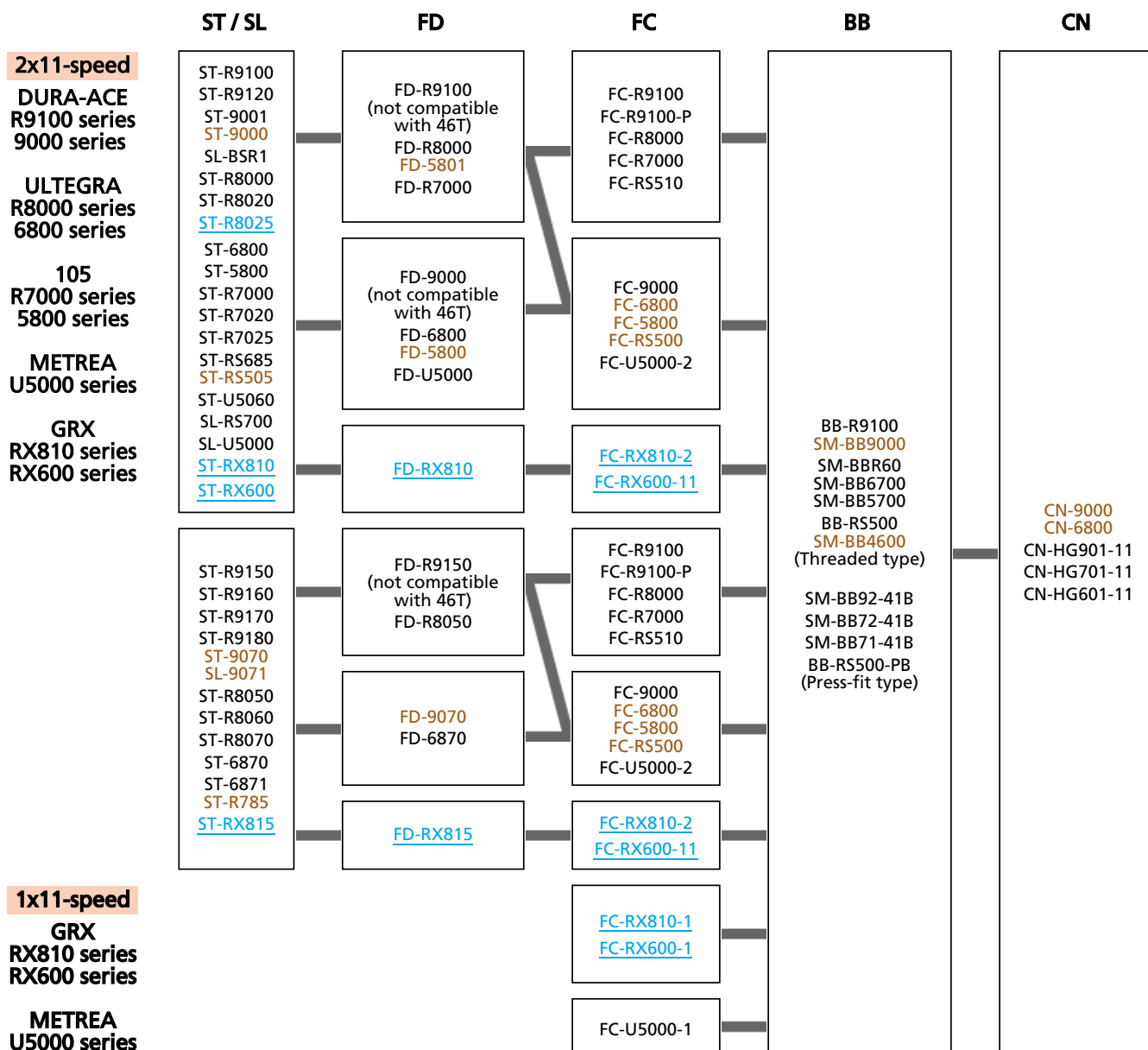
Rear drivetrain compatibility

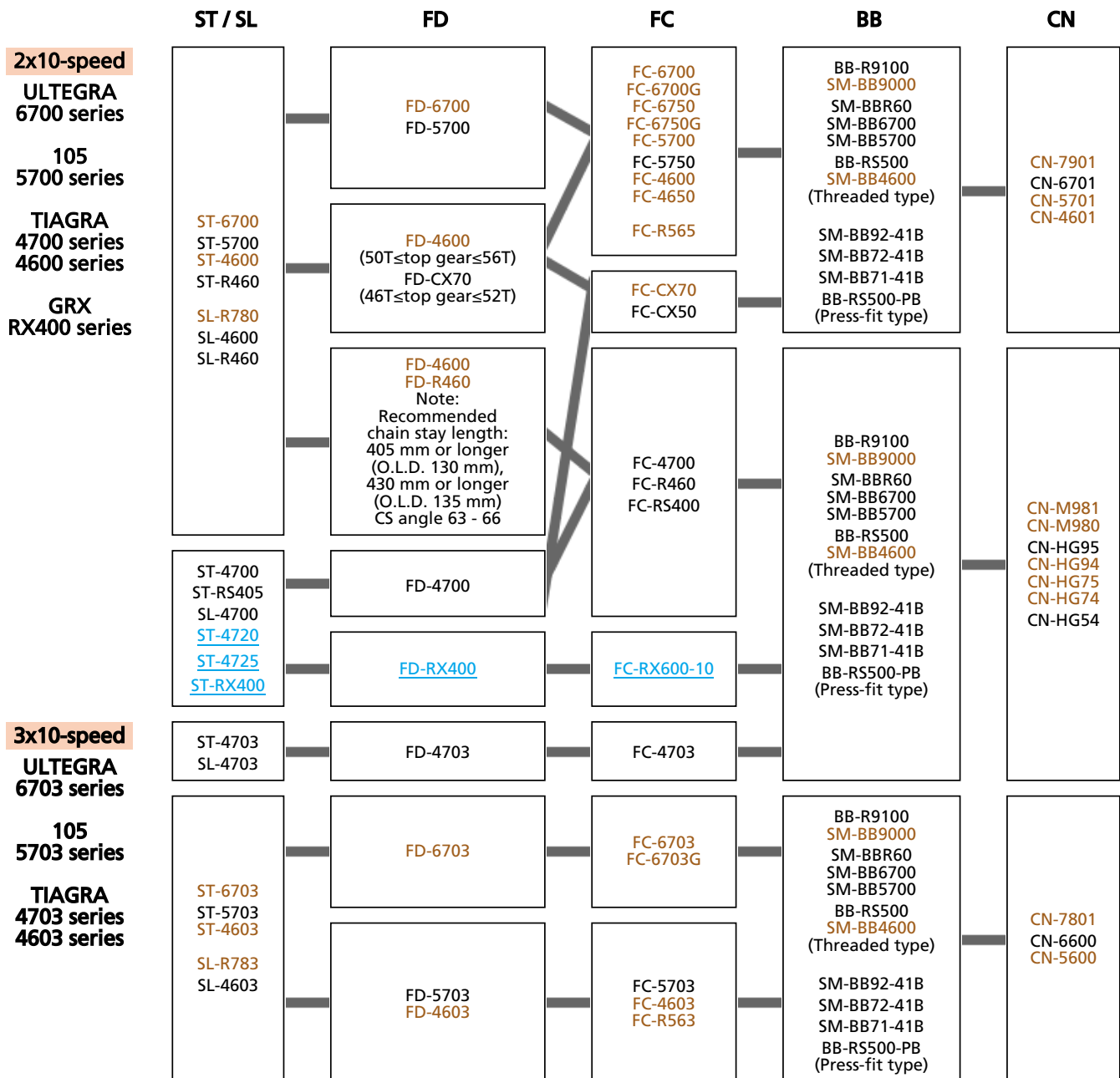
C-454

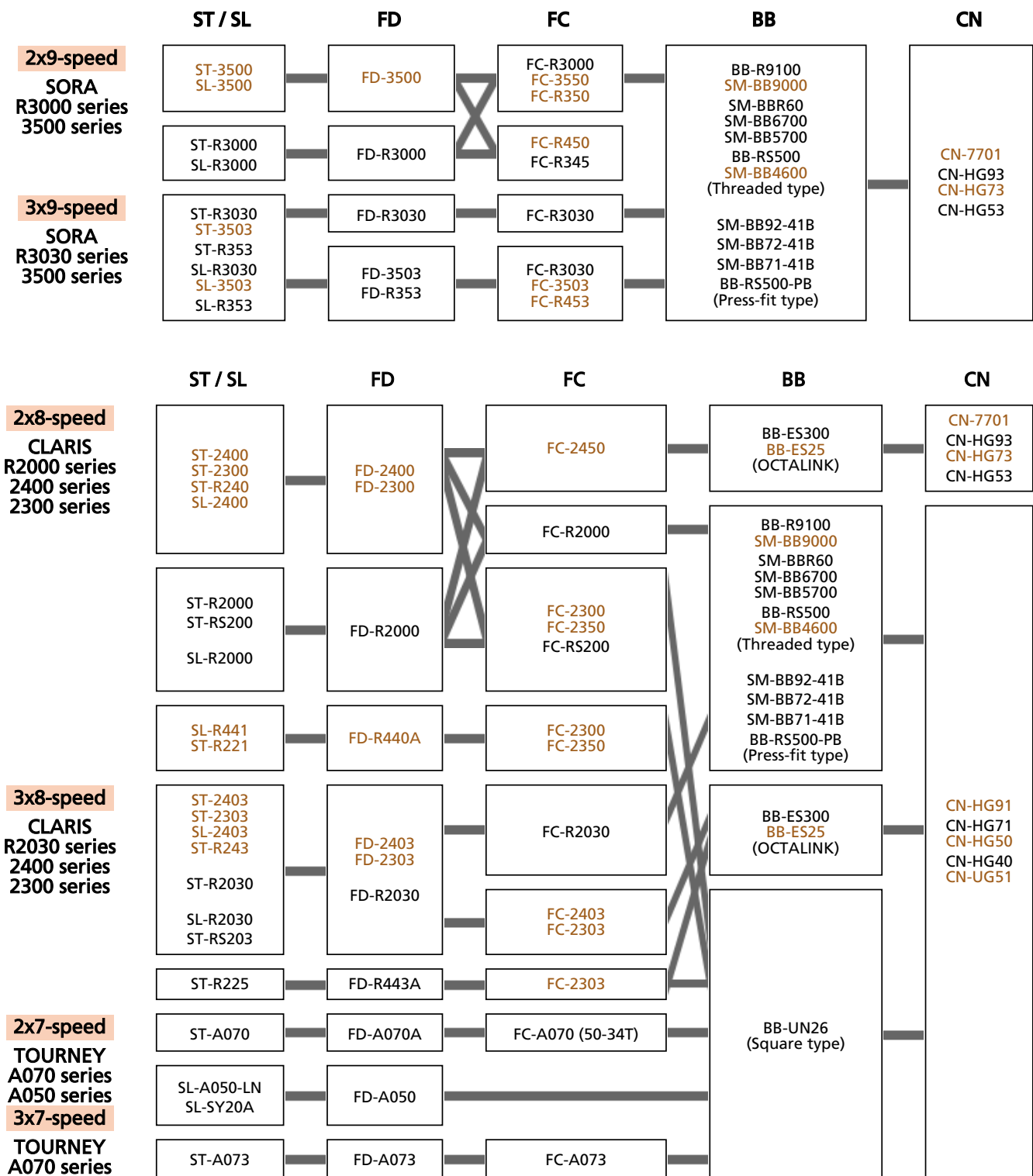
	ST / SL	RD	CS	CN	FH / WH
2x11-speed DURA-ACE R9100 series 9000 series ULTEGRA R8000 series 6800 series 105 R7000 series 5800 series METREA U5000 series GRX RX810 series RX600 series	ST-R9100 ST-R9120 ST-9001 ST-9000 SL-B5R1 ST-R8000 ST-R8020 ST-6800 ST-R7000 ST-R7020 ST-R7025 ST-5800 SL-R5700 ST-R5685 ST-R5505 ST-U5060 SL-U5000 ST-RX810 ST-RX600	RD-R9100-SS RD-R8000-SS (25T≤CS Low gear≤30T) RD-9000 RD-R8000-GS RD-RX800-GS (28T≤CS Low gear≤34T) RD-6800-SS RD-5800-SS (23T≤CS Low gear≤28T) RD-R7000-SS (25T≤CS Low gear≤30T) RD-R7000-GS (28T≤CS Low gear≤34T) RD-6800-GS RD-5800-GS (28T≤CS Low gear≤32T) RD-U5000-SS (28T≤CS Low gear≤32T) RD-RX810 (30T≤CS Low gear≤34T) RD-RX800 (28T≤CS Low gear≤34T)	CS-R9100 CS-9000 CS-6800 CS-5800 CS-R8000 CS-HG800-11 CS-R7000 CS-HG700-11	CN-9000 CN-6800 CN-HG901-11 CN-HG701-11 CN-HG601-11	FH-9000 WH-R9100 WH-R5700 WH-R5500 WH-R5300 WH-R5100 FH-6800 FH-5800 FH-R7000 FH-R7070 FH-R5400 (O.L.D. 130 mm) FH-CX75 FH-R5505 WH-RX830 WH-RX31 (QR) WH-U5000 WH-RX010 (O.L.D. 135 mm) WH-R9170 WH-R5770 WH-R5370 WH-R5170 WH-RX570 WH-RX31 (E-THRU) FH-R5770 (O.L.D. 142 mm)
	ST-R9150 ST-R9160 ST-R9170 ST-R9180 ST-9070 ST-R8050 ST-R8060 ST-R8070 ST-9071 ST-6870 ST-6871 ST-RX815 ST-R785	RD-R9150-SS RD-R8050-SS (25T≤CS Low gear≤30T) RD-9070-SS RD-6870-SS (23T≤CS Low gear≤28T) RD-R8050-GS RD-RX805 (28T≤CS Low gear≤34T) RD-6870-GS (28T≤CS Low gear≤32T) RD-RX815 (30T≤CS Low gear≤34T)			
	ST-U5060 SL-U5000	RD-U5000-SS			
1x11-speed METREA U5000 series GRX RX810 series RX600 series	ST-RX810 ST-RX600	RD-RX812 (40T≤CS Low gear≤42T)			
	ST-R9150 ST-R9160 ST-R9170 ST-R9180 ST-9070 ST-R8050 ST-R8060 ST-R8070 ST-9071 ST-6870 ST-6871 ST-RX815 ST-R785	RD-RX817 (40T≤CS Low gear≤42T)	CS-M8000-11 CS-M7000-11		

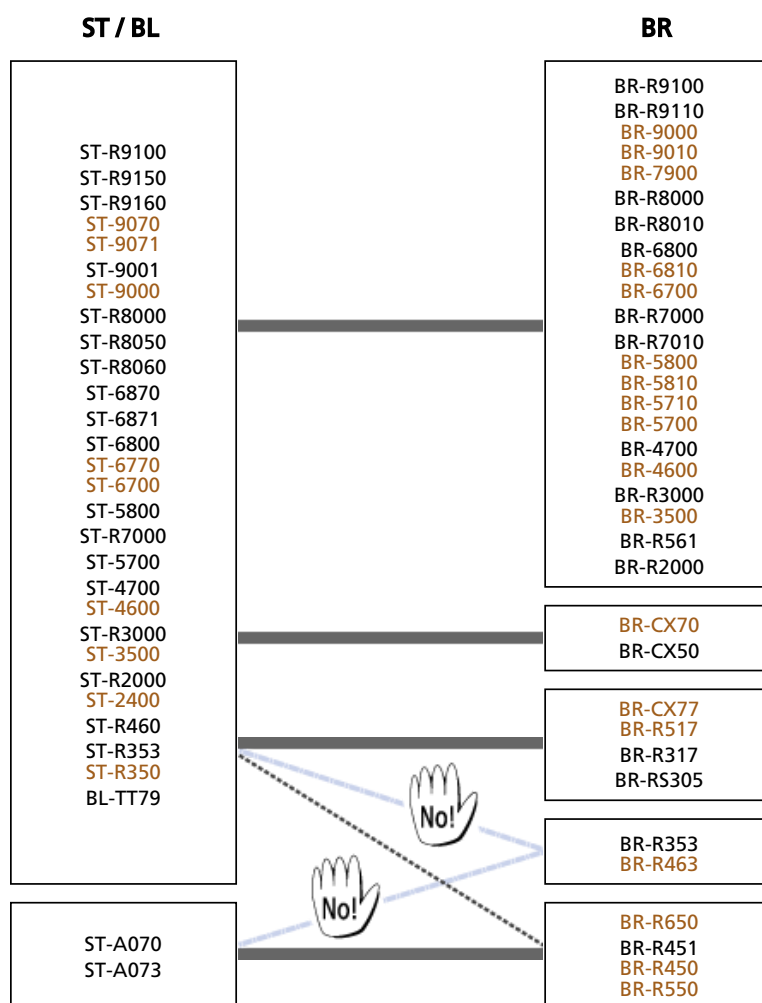
	ST / SL	RD	CS	CN	FH
<div>2x10-speed</div> <div>ULTEGRA 6700 series</div> <div>105 5700 series</div> <div>TIAGRA 4700 series 4600 series</div> <div>GRX RX400 series</div>	ST-6700 ST-5700 ST-4600 ST-R460 SL-R780 SL-4600 SL-R460	RD-6700-A-SS (23T≤low gear≤30T)	CS-6700 CS-5700 CS-4600 CS-HG500-10	CN-7901 CN-6701 CN-5701 CN-4601	FH-6700 FH-5700 FH-5600 FH-RS400 FH-RS300 FH-4600 FH-3500 FH-2400 HB-RS300 (O.L.D. 130 mm) FH-RS505 FH-R505 (O.L.D.135 mm) FH-RS770 (O.L.D.142 mm)
		RD-5701-SS RD-4601-SS (25T≤low gear≤30T)			
		RD-5701-GS RD-4601-GS (27T≤low gear≤32T)	CS-6700 CS-5700 CS-HG500-10 CS-M771-10 CS-HG81-10 CS-HG62-10		
		RD-R350-10-SS (30T≤low gear≤34T)			
	ST-4700 ST-4720 ST-4725 ST-RS405 ST-RX400 SL-4700	RD-4700-SS (25T≤low gear≤28T)	CS-6700 CS-5700 CS-HG500-10 CS-4600 CS-M980 CS-M771-10 CS-HG81-10 CS-HG62-10 CS-HG50-10	CN-M981 CN-M980 CN-HG95 CN-HG94 CN-HG75 CN-HG74 CN-HG54	
	ST-4700 ST-4720 ST-4725 ST-RS405 ST-RX400 SL-4700	RD-4700-GS (28T≤low gear≤34T) RD-RX400 (32T≤low gear≤36T)			
	ST-6700 ST-5700 ST-4600 SL-R780 SL-4600	RD-6700-A-GS (23T≤low gear≤30T)	CS-6700 CS-5700 CS-HG500-10 CS-4600 CS-M771-10 CS-HG81-10 CS-HG62-10	CN-7801 CN-6600 CN-5600	
		RD-5701-GS RD-4601-GS (25T≤low gear≤30T)			
	ST-4700 SL-4700	RD-4700-GS (25T≤low gear≤32T)	CS-6700 CS-5700 CS-HG500-10 CS-4600 CS-M980 CS-M771-10 CS-HG81-10 CS-HG62-10	CN-M981 CN-M980 CN-HG95 CN-HG94 CN-HG75 CN-HG74 CN-HG54	







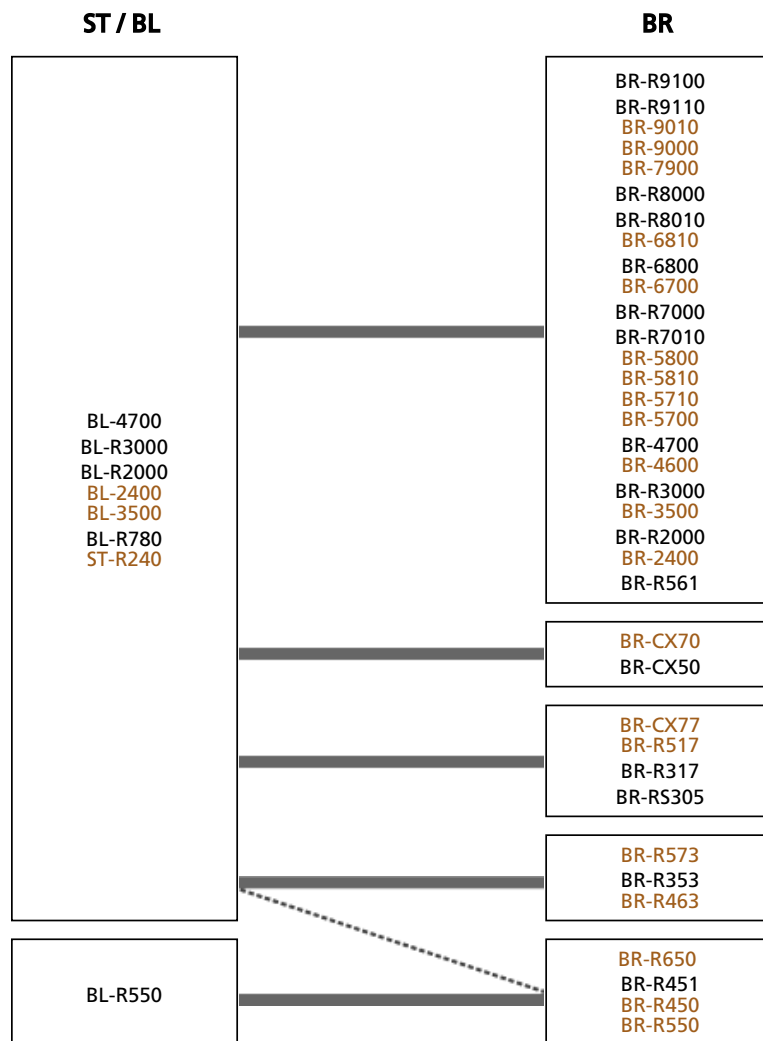




*****: Braking power is slightly less than standard combination.



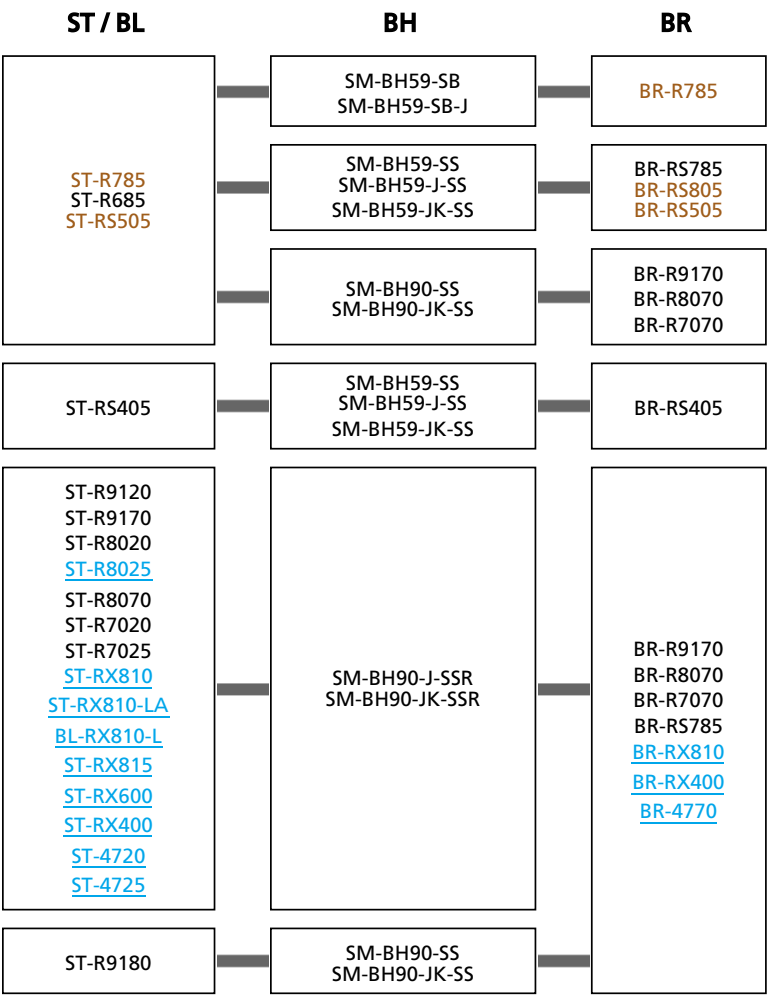
: The "NO!" symbols indicate combinations that should not be used under any circumstances.



-----: Braking power is slightly less than standard combination.

Hydraulic systems compatibility [ROAD, Gravel/Adventure]

C-499



Hydraulic systems compatibility [URBAN (METREA)]

C-500



Compatibility of I-SPEC shifter and brake lever

C-157

Clamp band type shifter can be compatible as I-SPEC when you change upper body with integration unit.

	Model No.	I-SPEC EV shifter			DI2 shifter	
		SL-M9100-I	SL-M8100-I	SL-M7100-I	SW-M9050	SW-M8050
I-SPEC EV	BL-M9100	✓	✓	✓	-	-
	BL-M9120	✓	✓	✓	-	-
	BL-M8100	✓	✓	✓	-	-
	BL-M7100	✓	✓	✓	-	-
I-SPEC II	BL-M9000	-	-	-	-	-
	BL-M9020	-	-	-	-	-
	BL-M8000	-	-	-	-	-
	BL-T8000	-	-	-	-	-
	BL-M7000	-	-	-	-	-
	BL-M6000	-	-	-	-	-
	BL-T6000	-	-	-	-	-
	BL-RS600	-	-	-	-	-
	BL-MT500	-	-	-	-	-
	BL-MT501	-	-	-	-	-
	BL-U5000	-	-	-	-	-
I-SPEC B	BL-M987	-	-	-	-	-
	BL-M988-B	-	-	-	-	-
	BL-M820-B	-	-	-	-	-
	BL-M640-B	-	-	-	-	-
	BL-T780-B	-	-	-	-	-
	BL-T675-B	-	-	-	-	-
	BL-T670-B	-	-	-	-	-
	BL-T610	-	-	-	-	-
	BL-M506	-	-	-	-	-
	BL-S700-B	-	-	-	-	-

	Model No.	I-SPEC II shifter					I-SPEC B shifter		
		SL-M9000-I	SL-M8000-I	SL-M7000-11-I SL-M7000-10-I	SL-U5000	SL-M6000-I	SL-M8000-B-I	SL-M7000-11 SL-M7000-10-B-I	SL-M820-B-I SL-M820 (with SM-SL82-B)
I-SPEC EV	BL-M9100	-	-	-	-	-	-	-	-
	BL-M9120	-	-	-	-	-	-	-	-
	BL-M8100	-	-	-	-	-	-	-	-
	BL-M7100	-	-	-	-	-	-	-	-
I-SPEC II	BL-M9000	✓	✓	✓	✓	✓	-	-	-
	BL-M9020	✓	✓	✓	✓	✓	-	-	-
	BL-M8000	✓	✓	✓	✓	✓	-	-	-
	BL-T8000	✓	✓	✓	✓	✓	-	-	-
	BL-M7000	✓	✓	✓	✓	✓	-	-	-
	BL-M6000	✓	✓	✓	✓	✓	-	-	-
	BL-T6000	✓	✓	✓	✓	✓	-	-	-
	BL-RS600	✓	✓	✓	✓	✓	-	-	-
	BL-MT500	✓	✓	✓	✓	✓	-	-	-
	BL-MT501	✓	✓	✓	✓	✓	-	-	-
	BL-U5000	✓	✓	✓	✓	✓	-	-	-
I-SPEC B	BL-M987	-	-	-	-	-	✓	✓	✓
	BL-M988-B	-	-	-	-	-	✓	✓	✓
	BL-M820-B	-	-	-	-	-	✓	✓	✓
	BL-M640-B	-	-	-	-	-	✓	✓	✓
	BL-T780-B	-	-	-	-	-	✓	✓	✓
	BL-T675-B	-	-	-	-	-	✓	✓	✓
	BL-T670-B	-	-	-	-	-	✓	✓	✓
	BL-T610	-	-	-	-	-	✓	✓	✓
	BL-M506	-	-	-	-	-	✓	✓	✓
	BL-S700-B	-	-	-	-	-	✓	✓	✓

Compatibility of SL-MT800 (Seat post lever) and brake lever

	Model No.	I-SPEC EV shifter SL-MT800
I-SPEC EV	BL-M9100	✓
	BL-M9120	✓
	BL-M8100	✓
	BL-M7100	✓
I-SPEC II	BL-M9000	-
	BL-M9020	-
	BL-M8000	-
	BL-T8000	-
	BL-M7000	-
	BL-M6000	-
	BL-T6000	-
	BL-RS600	-
	BL-MT500	-
	BL-MT501	-
	BL-U5000	-
I-SPEC B	BL-M987	-
	BL-M988-B	-
	BL-M820-B	-
	BL-M640-B	-
	BL-T780-B	-
	BL-T675-B	-
	BL-T670-B	-
	BL-T610	-
	BL-M506	-
	BL-S700-B	-

Disc brake caliper and disc brake rotor compatibility

C-461

Brake caliper	Brake pad material	Pad type	Disc brake rotor			
			203 mm (L)	180 mm (M)	160 mm (S)	140 mm (SS)
BR-M9100**** BR-M9120 BR-M9000 BR-M9020 BR-M8100 BR-M8120 BR-M8000 BR-M8020 BR-M7100 BR-M7120 BR-M7000 BR-M6000 BR-MT520 BR-MT420 BR-M820 BR-M640	Metal / Resin	Narrow	RT-MT900-L SM-RT99-L RT-MT800-L SM-RT86-L SM-RT81-L SM-RT76-L SM-RT70-L SM-RT66-L SM-RT64-L SM-RT30-L** RT-EM910-L* RT-EM900-L* RT-EM810-L* RT-EM600-L* RT-EM300-L* ,**	RT-MT900-M SM-RT99-M RT-MT800-M SM-RT86-M SM-RT81-M SM-RT76-M SM-RT70-M SM-RT66-M SM-RT64-M SM-RT56-M** SM-RT54-M** SM-RT30-M** SM-RT26-M** SM-RT10-M** RT-EM910-M* RT-EM900-M* RT-EM810-M* RT-EM800-M* RT-EM600-M* RT-EM300-M* ,**	RT-MT900-S SM-RT900-S SM-RT800-S SM-RT99-S RT-MT800-S SM-RT86-S SM-RT81-S SM-RT76-S SM-RT70-S SM-RT66-S SM-RT64-S SM-RT56-S** SM-RT54-S** SM-RT30-S** SM-RT26-S** SM-RT10-S** RT-EM910-M* RT-EM900-S* RT-EM810-M* RT-EM800-S* RT-EM600-S* RT-EM300-S* ,**	RT-MT900-SS SM-RT900-SS SM-RT99-SS SM-RT99-A-SS RT-MT800-SS SM-RT800-SS SM-RT81-SS SM-RT70-SS
BR-S700 BR-S7000	Resin					
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	Resin	Wide	-	SM-RT56-M SM-RT54-M SM-RT30-M SM-RT26-M SM-RT10-M RT-EM300-M	SM-RT56-S SM-RT54-S SM-RT30-S SM-RT26-S SM-RT10-S RT-EM300-S	-
BR-UR300	Resin	Wide	-	SM-RT56-M SM-RT54-M SM-RT30-M SM-RT26-M SM-RT10-M	SM-RT56-S SM-RT54-S SM-RT30-S SM-RT26-S SM-RT10-S RT-EM300-S	-
BR-R9170*** BR-R8070 BR-R7070 BR-4770 BR-R5805 BR-R785 BR-R5785 BR-R5505 BR-R5405 BR-RX810 BR-RX400	Metal / Resin	Narrow	-	RT-MT900-M RT-MT800-M SM-RT99-M SM-RT86-M SM-RT81-M SM-RT70-M SM-RT66-M SM-RT64-M SM-RT56-M** SM-RT54-M** SM-RT30-M** SM-RT26-M** SM-RT10-M** RT-EM910-M* RT-EM900-M* RT-EM810-M* RT-EM800-M* RT-EM600-M* RT-EM300-M* ,**	RT-MT900-S SM-RT900-S RT-MT800-S SM-RT800-S SM-RT99-S SM-RT86-S SM-RT81-S SM-RT70-S SM-RT66-S SM-RT64-S SM-RT56-S** SM-RT54-S** SM-RT30-S** SM-RT26-S** SM-RT10-S** RT-EM910-S* RT-EM900-S* RT-EM810-S* RT-EM800-S* RT-EM600-S* RT-EM300-S* ,**	RT-MT900-SS SM-RT900-SS RT-MT800-SS SM-RT800-SS SM-RT99-SS SM-RT99-A-SS SM-RT81-SS SM-RT70-SS
BR-CX77 BR-R517 BR-R317 BR-RS305	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-A-SS SM-RT81-SS
BR-U5000***	Metal / Resin	Narrow	-	SM-RT99-M SM-RT86-M SM-RT81-M SM-RT76-M SM-RT70-M SM-RT66-M SM-RT64-M	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-A-SS SM-RT81-SS

* Disc brake rotor for speed sensor SM-DUE11, rear only

** Resin pad only

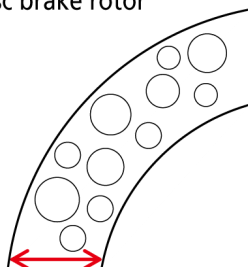
*** Not compatible with rear 180 mm (M) disc brake rotors

**** Not compatible with 203 mm (L) disc brake rotors

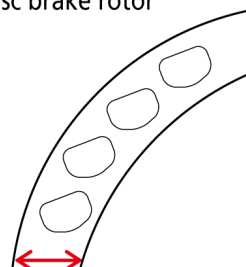
NOTE

- SM-RT56 / SM-RT54 / SM-RT30 / SM-RT26 / SM-RT10 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 front mount bracket and rear adapter.

Wide type disc brake rotor



Narrow type disc brake rotor



Interference between brake caliper and adapter of disc brake rotor

Do not use these combinations for a reason of interference between brake caliper and adapter of disc brake rotor .

Brake caliper	Disc brake rotor			
	203 mm (L)	180 mm (M)	160 mm (S)	140 mm (SS)
BR-T675 BR-T615 BR-M4050 BR-MT500 BR-M446 BR-MT400 BR-M3050 BR-M395 BR-MT200 BR-M365 BR-M315	SM-RT99 SM-RT86 SM-RT81 SM-RT76	SM-RT99 SM-RT70 RT-MT900 RT-MT800 RT-EM910 RT-EM900 RT-EM810 RT-EM800	SM-RT900 SM-RT99 SM-RT86 SM-RT81 SM-RT76 SM-RT70 RT-MT900 RT-MT800 RT-EM910 RT-EM900 RT-EM810 RT-EM800	SM-RT900 SM-RT500 SM-RT99 SM-RT99-A SM-RT81 RT-MT900 RT-MT800

Compatibility of lock ring with hubs

C-612

Front hub (Disc Brake)

Type	Fixing type of lock ring		
	Internal serration	Internal & external serration	External serration
QR type	✓	✓	✓
12 mm E-THRU type	✓	✓*	✓
15 mm E-THRU type	-	✓*	✓
20 mm thru axle type	-	✓*	✓

* Internal & external serration type lock ring can not be used with TL-LR11 for E-THRU type. Please tighten with TL-FC36.

FREEHUB (Disc Brake)

Model No.	Fixing type of lock ring		
	Internal serration	Internal & external serration	External serration
FH-M9111 FH-M9111-B FH-M9111-BS FH-M9000 FH-M9010 FH-M9010-B FH-MT901-B FH-MT901-BS	-	-	✓
Other models (MTB, Trekking, ROAD, URBAN)	✓	✓	✓

Compatibility between brake systems (MT400 series)

C-606

	BR-MT400	BR-MT420
BL-MT400	✓	-
BL-MT402-3A	✓	✓
BL-MT401-3A	✓	-
BL-MT401	✓	✓

Combination chart (Mechanical Disc)

C-462

Mechanical Disc Brake combination chart C-463

In order to realize the best performance, we recommend that the following combination be used.

Model No.	Mount type	Brake lever
BR-M375 BR-TX805	*	V-BRAKE BL (2 finger)
BR-R517	*	Road lever**
BR-R317	*	Road lever**
BR-CX77	*	Road lever**
BR-RS305	FLAT MOUNT	Road lever**

* Front mount: International standard / Post mount, Rear mount: International standard / Post mount

** For BL-R780 / 4600 / 5700 / 4600

Mechanical Disc brake and Brake lever compatibility C-464

Model No.	Brake lever type		
	2 finger	3,4 finger	3,4 finger w / POWER MODULATOR*
			w / SM-PM50
BR-M375	✓	-	✓
BR-TX805	✓	-	✓

* POWER MODULATOR must be used for front brake

Compatibility between hydraulic disc brake hose

C-186

		SM-BH90-JK-SSR	SM-BH90-SBM *4	SM-BH90-SBLS *1	SM-BH90-SBS *2	SM-BH90-SB *3	SM-BH90-SS
Connection		Straight - Straight	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Straight
Rigidity		High power	High power	High power	High power	High power	High power
BL-M9100	BR-M9100	—	—	—	—	—	✓
BL-M9120	BR-M9120	—	✓	—	—	—	—
BL-M9000	BR-M9000	—	✓	—	—	—	—
BL-M9020	BR-M9020	—	✓	—	—	✓	—
BL-M820	BR-M820	—	—	✓	—	—	—
BL-M8100	BR-M8100	—	✓	—	—	—	—
BL-M8100	BR-M8120	—	✓	—	—	—	—
BL-M8000	BR-M8000	—	✓	—	—	✓	—
BL-M8000	BR-M8020	—	—	✓	—	—	—
BL-T8000	BR-M8000	—	✓	—	—	✓	—
BL-M7100	BR-M7100	—	✓	—	—	—	—
BL-M7100	BR-M7120	—	✓	—	—	—	—
BL-M7000	BR-M7000	—	✓	—	—	✓	—
BL-T675	BR-T675	—	—	—	—	—	✓
BL-M640	BR-M640	—	—	✓	✓	—	—
BL-M6000	BR-M6000	—	—	—	—	—	✓
BL-T6000	BR-M6000	—	—	—	—	—	—
BL-S7000	BR-S7000	—	—	—	—	—	—
BL-RS600	BR-RS405	—	—	—	—	—	—
BL-MT501	BR-MT520	—	—	—	—	—	✓
BL-MT501	BR-MT500	—	—	—	—	—	—
BL-MT500	BR-MT500	—	—	—	—	—	—
ST-M4050	BR-M4050	—	—	—	—	—	—
ST-M3050	BR-M3050	—	—	—	—	—	—
BL-T445	BR-M446	—	—	—	—	—	—
BL-MT400	BR-MT400	—	—	—	—	—	—
BL-MT401	BR-MT400	—	—	—	—	—	—
BL-MT401	BR-MT420	—	—	—	—	—	✓
BL-MT401-3A	BR-MT400	—	—	—	—	—	—
BL-MT402-3A	BR-MT400	—	—	—	—	—	—
BL-MT402-3A	BR-MT420	—	—	—	—	—	✓
BL-M425 BL-M396	BR-M395	—	—	—	—	—	—
BL-MT201	BR-MT200	—	—	—	—	—	—
BL-MT200	BR-MT200	—	—	—	—	—	—
BL-MT201	BR-UR300	—	—	—	—	—	—
BL-MT200	BR-UR300	—	—	—	—	—	—
BL-M365	BR-M365	—	—	—	—	—	—
BL-M315	BR-M315	—	—	—	—	—	—
ST-EF505	BR-M315	—	—	—	—	—	—
ST-EF505	BR-MT200	—	—	—	—	—	—
BL-S700	BR-S700	—	✓	—	—	✓	—
ST-R9120 ST-R9170	BR-R9170	✓	—	—	—	—	—
ST-R9180	BR-R9170	✓	—	—	—	—	—
ST-R8020 ST-R8070	BR-R8070	✓	—	—	—	—	—
ST-R7020	BR-R7070	✓	—	—	—	—	—
ST-R7025	BR-R7070	✓	—	—	—	—	—
ST-R785	BR-RS805	—	—	—	—	—	—
ST-R785	BR-RS785	—	—	—	—	—	—
ST-R785	BR-R785	—	—	—	—	—	—
ST-RS685	BR-RS805	—	—	—	—	—	—
ST-RS685	BR-RS785	—	—	—	—	—	—
ST-RS685	BR-R785	—	—	—	—	—	—
ST-RS505	BR-RS785	—	—	—	—	—	—
ST-RS505	BR-RS505	—	—	—	—	—	—
ST-RS405	BR-RS405	—	—	—	—	—	—
ST-RX815	BR-RX810	✓	—	—	—	—	—
ST-RX810	BR-RX810	✓	—	—	—	—	—
BL-RX810	BR-RX810	✓	—	—	—	—	—
ST-RX600	BR-RX400	✓	—	—	—	—	—
BL-RX600	BR-RX400	✓	—	—	—	—	—
ST-RX400	BR-RX400	✓	—	—	—	—	—
BL-U5000	BR-U5000	—	—	—	—	—	—
BL-U5010		—	—	—	—	—	—
ST-U5060		—	—	—	—	—	—

		SM-BH59-J-SS	SM-BH59-JK-SS (MTB)	SM-BH59-JK-SS (ROAD)	SM-BH59-SB *3	SM-BH59-SB-J *3
Connection		Straight - Straight	Straight - Straight	Straight - Straight	Straight - Banjo	Straight - Banjo
Rigidity		Standard	Standard	Standard	Standard	Standard
BL-M9100	BR-M9100	—	—	—	—	—
BL-M9120	BR-M9120	—	—	—	—	—
BL-M9000	BR-M9000	—	—	—	—	—
BL-M9020	BR-M9020	—	—	—	—	—
BL-M820	BR-M820	—	—	—	—	—
BL-M8100	BR-M8100	—	—	—	—	—
BL-M8100	BR-M8120	—	—	—	—	—
BL-M8000	BR-M8000	—	—	—	—	—
BL-M8000	BR-M8020	—	—	—	—	—
BL-T8000	BR-M8000	—	—	—	—	—
BL-M7100	BR-M7100	—	—	—	—	—
BL-M7100	BR-M7120	—	—	—	—	—
BL-M7000	BR-M7000	—	—	—	—	—
BL-T675	BR-T675	—	—	—	—	—
BL-M640	BR-M640	—	—	—	—	—
BL-M6000	BR-M6000	—	—	—	—	—
BL-T6000	BR-M6000	—	✓	—	—	—
BL-S7000	BR-S7000	—	✓	—	—	—
BL-RS600	BR-RS405	—	✓	—	—	—
BL-MT501	BR-MT520	—	—	—	—	—
BL-MT501	BR-MT500	—	✓	—	—	—
BL-MT500	BR-MT500	—	✓	—	—	—
ST-M4050	BR-M4050	—	✓	—	—	—
ST-M3050	BR-M3050	—	✓	—	—	—
BL-T445	BR-M446	—	✓	—	—	—
BL-MT400	BR-MT400	—	✓	—	—	—
BL-MT401	BR-MT400	—	✓	—	—	—
BL-MT401	BR-MT420	—	—	—	—	—
BL-MT401-3A	BR-MT400	—	✓	—	—	—
BL-MT402-3A	BR-MT400	—	✓	—	—	—
BL-MT402-3A	BR-MT420	—	—	—	—	—
BL-M425 BL-M396	BR-M395	—	✓	—	—	—
BL-MT201	BR-MT200	—	✓	—	—	—
BL-MT200	BR-MT200	—	✓	—	—	—
BL-MT201	BR-UR300	—	✓	—	—	—
BL-MT200	BR-UR300	—	✓	—	—	—
BL-M365	BR-M365	—	✓	—	—	—
BL-M315	BR-M315	—	✓	—	—	—
ST-EF505	BR-M315	—	✓	—	—	—
ST-EF505	BR-MT200	—	✓	—	—	—
BL-S700	BR-S700	—	—	—	—	—
ST-R9120 ST-R9170	BR-R9170	—	—	—	—	—
ST-R9180	BR-R9170	—	—	—	—	—
ST-R8020 ST-R8070	BR-R8070	—	—	—	—	—
ST-R7020	BR-R7070	—	—	—	—	—
ST-R7025	BR-R7070	—	—	—	—	—
ST-R785	BR-RS805	✓	—	—	—	—
ST-R785	BR-RS785	✓	—	—	—	—
ST-R785	BR-R785	—	—	—	✓	✓
ST-RS685	BR-RS805	✓	—	✓	—	—
ST-RS685	BR-RS785	✓	—	✓	—	—
ST-RS685	BR-R785	—	—	—	✓	✓
ST-RS505	BR-RS785	✓	—	✓	—	—
ST-RS505	BR-RS505	✓	—	✓	—	—
ST-RS405	BR-RS405	—	—	✓	—	—
ST-RX815	BR-RX810	—	—	—	—	—
ST-RX810	BR-RX810	—	—	—	—	—
BL-RX810	BR-RX810	—	—	—	—	—
ST-RX600	BR-RX400	—	—	—	—	—
BL-RX600	BR-RX400	—	—	—	—	—
ST-RX400	BR-RX400	—	—	—	—	—
BL-U5000	BR-U5000	—	—	✓	—	—
BL-U5010		—	—	✓	—	—
ST-U5060		—	—	✓	—	—

Level of compatibility

✓: Compatible

*: Refer Service Instruction of SM-BH80, SM-BH59 (brake hose 10 m coil) for assembling / disassembling banjo unit

-: Impossible to use

*1: Banjo (long), Banjo bolt (short)

*2: Banjo (normal), Banjo bolt (short)

*3: Banjo (normal), Banjo bolt (normal)

*4: Banjo (special), Banjo bolt (special)

How to read Model No. C-194

(1) (2) (3) (4) (5) (6)
SM-MA-F203S/P

(1)	Small parts
(2)	Mount adapter
(3)	F = Front and Rear * R = Rear
(4)	Disc brake rotor size **
(5)	Caliper mount type S = International A-standard P = Post D = Flat mount
(6)	Suspension / Frame type S = International A-standard P = Post D = Flat mount

NOTE

* This part may be used in the rear.

In this case, the disc brake rotor size description is also different. Refer to the table below.

** The disc brake rotor size description is 160 mm. Direct post mount/International A-standard forks and frames are supported. Refer to the table below for other mount types.

Application table for adapter C-195

For post mount brake caliper

Fork and frame mount type			Disc brake rotor size			
			140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)
Post mount	Front	140 mm direct	Direct mount	SM-MA90-F180P / P SM-MA-F180P / P2 (for R785)	-	-
		160 mm direct	-	Direct mount	SM-MA90-F180P / P SM-MA-F180P / P2	SM-MA-F203P / P
		180 mm direct	-	-	Direct mount	SM-MA90-F203P / PM SM-MA-F203P / PM
		203 mm direct	-	-	-	Direct mount
	Rear	140 mm direct	Direct mount	SM-MA90-F180P / P SM-MA-F180P / P2	-	-
		160 mm direct	-	Direct mount	SM-MA90-F180P / P SM-MA-F180P / P2	SM-MA-F203P / P
		180 mm direct	-	-	Direct mount	SM-MA90-F203P / PM SM-MA-F203P / PM
		203 mm direct	-	-	-	Direct mount
International A-standard	Front	-	-	SM-MA90-F160P / S SM-MA-F160P / S	SM-MA-F180P / S	SM-MA-F203P / S
	Rear	SM-MA90-R140P / S	SM-MA90-R160P / S SM-MA-R160P / S	SM-MA90-R180P / S SM-MA-R180P / S	SM-MA-R203P / S	
Flat mount	Front	SM-MA-F140P / D	SM-MA-F160P / D	-	-	-
	Rear	SM-MA-R140P / D	SM-MA-R160P / D	-	-	-

For flat mount brake caliper

Fork and frame mount type			Disc brake rotor size		
			140 mm (SS)	160 mm (S)	180 mm (M)
Flat mount	R140/160 Flat mount	Front	(with product / Y8N298010)	(with product / Y8N298010)	-
		Rear	Direct mount	SM-MA-R160 D/D	-
	R160/180 Flat mount	Front	-	(with product / Y8N298010)	(with product / Y8N298010)
		Rear	-	Direct mount	SM-MA-R160 D/D

NOTE

BR-UR300 is compatible only with 160mm (S) without adapter. (Direct mount)

Polymer-coated brake cable (BC-9000 / BC-R680) compatible chart

Series	Brake with New cable	
DURA-ACE	BR-R9100	✓
	BR-R9110	✓
ULTEGRA	BR-R8000	✓
	BR-R8010	
105	BR-R7000 BR-R7010 BR-5810	✓
	BR-5700	-
TIAGRA	BR-4700	✓
SORA	BR-R3000	✓
CLARIS	BR-R2000	✓
Others		-





C-306

Compatibility between brake systems

C-466

Depending on the brake and brake lever combination to be used, the relationship between the input at the brake lever and the actual braking force output at the wheels is very easily affected.

Be very careful when combining a brake and brake lever. Incorrect combinations can cause accidents or insufficient braking forces due to improper cable strokes. Be sure to carefully consult the chart below and select the brake and the matching brake lever.

		V-BRAKE		Roller Brake
		BR-T780 BR-MX70 BR-R573 BR-R463 BR-R353 BR-T670 BR-T610 BR-T4010 BR-T4000	With POWER MODULATOR* model BR-T780 with SM-PM70 BR-T670 with SM-PM70 BR-T610 with SM-PM70 BR-T4010 with SM-PM40 BR-T4000 with SM-PM40 BR-R573 with SM-PM70 BR-R463 with SM-PM40 BR-R353 with SM-PM70	BR-C6060-F BR-C6000 BR-C3010 BR-C3000
V-BRAKE Levers (2-finger)				
ST-M4000 ST-EF41 ST-TX800 ST-M370 ST-M310 ST-EF510 ST-EF500 ST-EF65 ST-EF51	BL-T610 BL-M571 BL-T4000 BL-MX70	✓	✓	
V-BRAKE Levers (3-finger)				
ST-T4000 ST-T3000	BL-T780 BL-T611 BL-T670 BL-T780-B BL-T4010 BL-T670-B		✓	
Brake Levers with switch				
ST-R240	BL-4600 BL-R780 BL-4700 BL-R3000 BL-R2000 BL-2400	✓	✓	NOTE
V-BRAKE lever with switch				
ST-M310 (4-finger) SB-C6000-8 SB-C3000-7 ST-EF65 (4-finger) ST-EF51 (4-finger) ST-EF510 (4-finger) ST-EF500 (4-finger)	BL-C6010		✓	✓
	BL-C6000			NOTE

* POWER MODULATOR must be used for front brake



The "NO!" symbols indicate combinations that should not be used under any circumstances.

NOTE

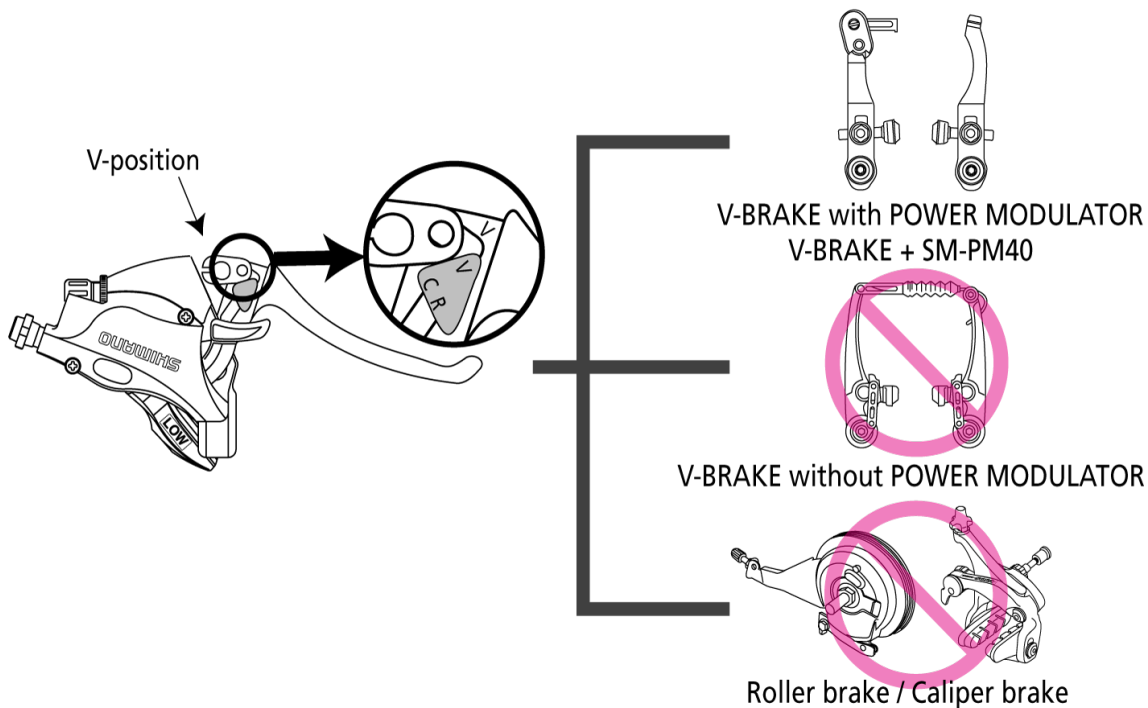
This combination will not provide the sufficient amount of braking force.

Brake lever with switch compatibility

C-467

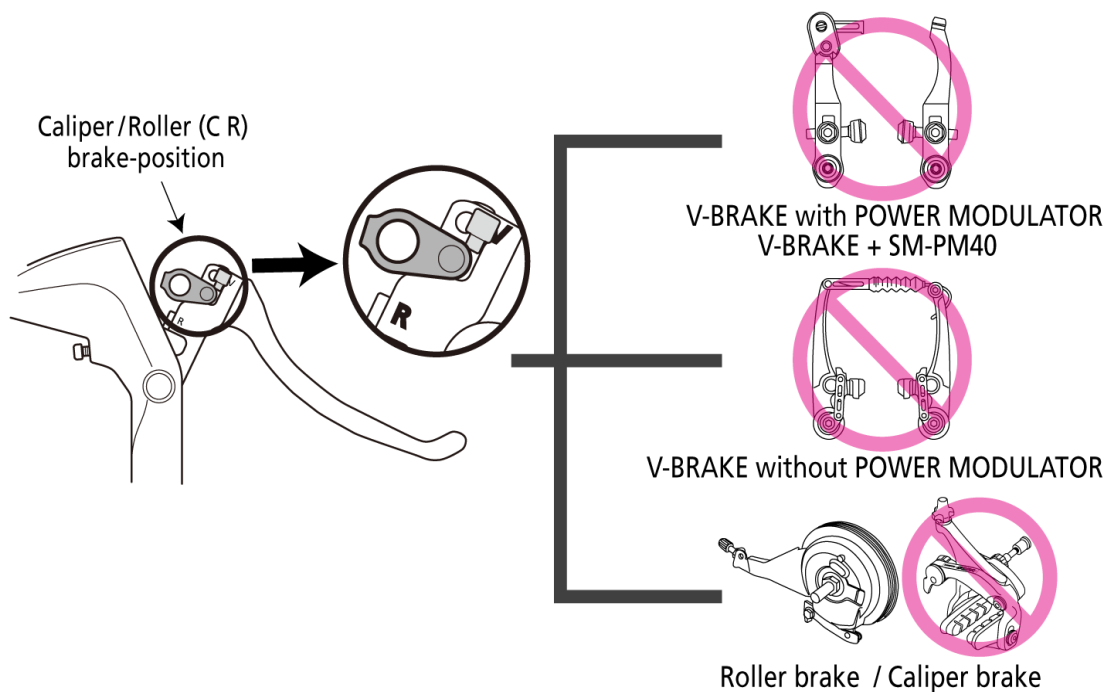
Four finger brake levers such as brake levers are equipped with a switch to change between the V-BRAKE with modulator mode (for example with SM-PM40) and the caliper brake or roller brake mode.

For V-BRAKE (with POWER MODULATOR) mode C-468

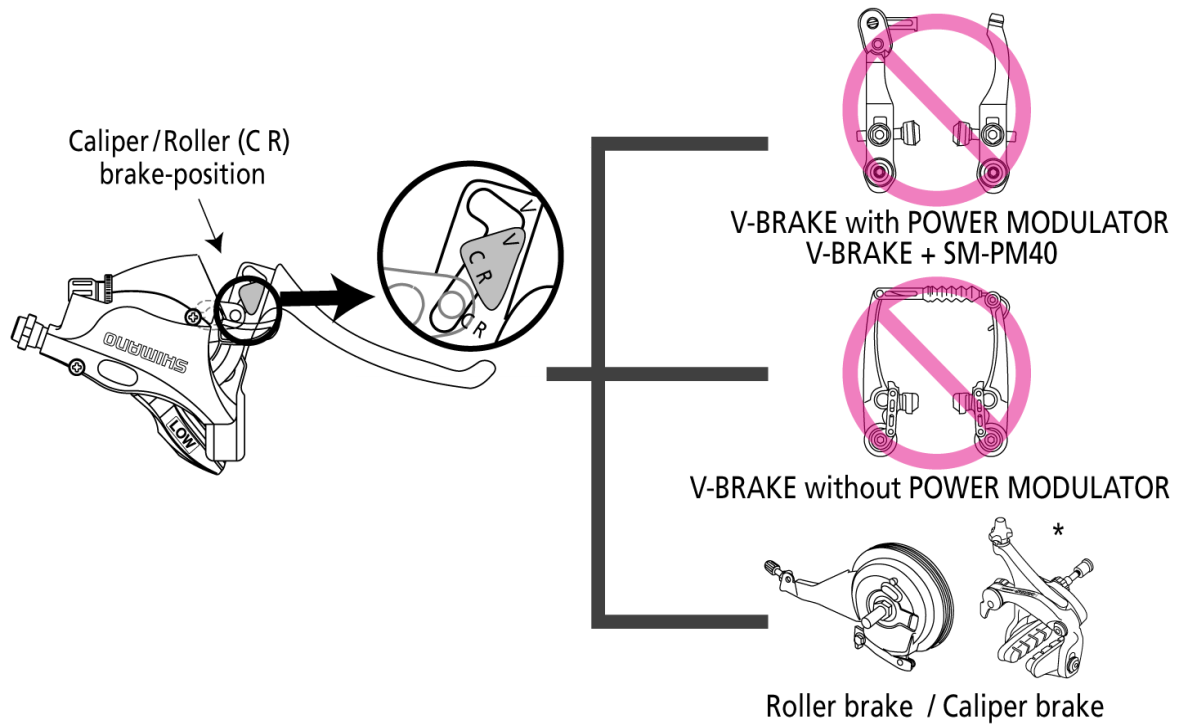


For Caliper brake / Roller brake C-469

BL-C6010



Other models



* 3 types of caliper brake is available (SLR EV / NEW SUPER SLR / SUPER SLR)

Please refer spec hand book for caliper brake compatibility.

Some models can't be used with roller brake, please refer to [C-466](#) for more information.

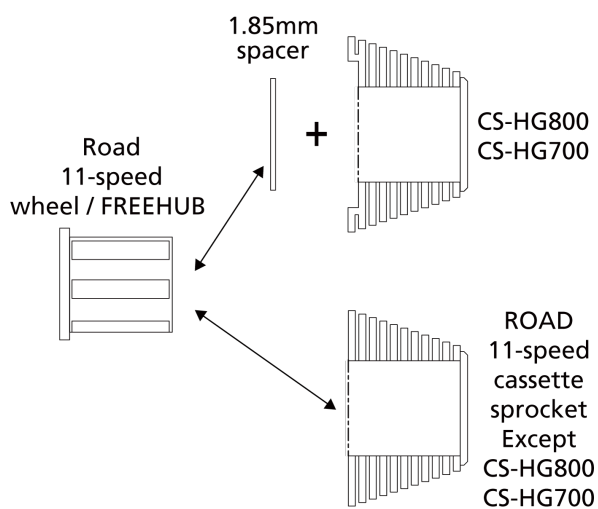
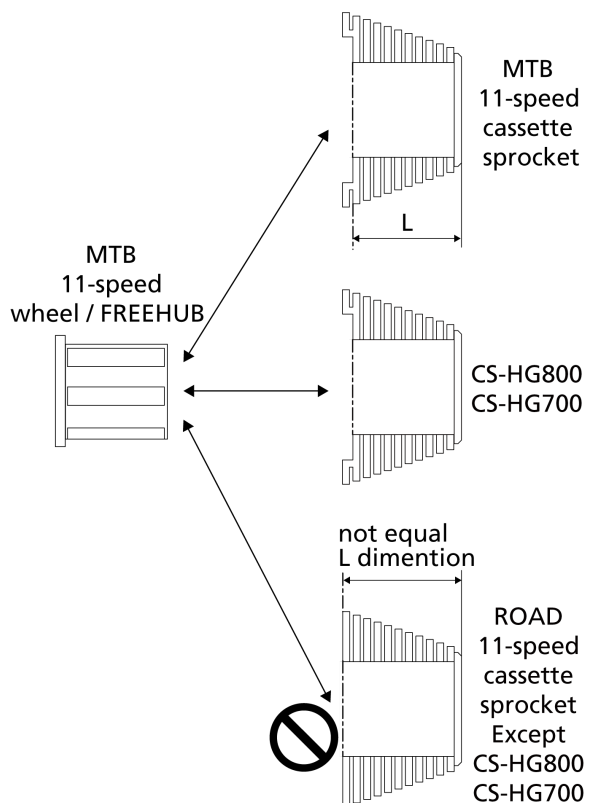
WARNING

If the mode is not matched to the type of brake being used, this could result in inadequate or excessive braking power. Please proceed with caution when selecting the correct mode for the corresponding brake.

11-speed FREEHUB compatibility

C-253

MTB 11speed wheel and FREEHUB have same serration with 10, 9-speed FREEHUB.



Compatibility between rear derailleur and cassette sprocket gear teeth [ROAD, Gravel/Adventure, URBAN (METREA)]

C-254

11-speed C-255

Gear	11-speed							
	RD-R9100 RD-R9150	RD-R8000 RD-R8050		RD-R7000		RD-9000	RD-6800 RD-6870 RD-5800	
	-	SS	GS Front double	SS	GS Front double	SS	SS	GS Front double
11-23T	-	-	-	-	-	✓	✓	-
11-25T	✓	✓	-	-	-	✓	✓	-
11-28T	✓	✓	✓	✓	✓	✓	✓	✓
11-30T	✓	✓	✓	✓	✓	-	-	✓
11-32T	-	-	✓	-	✓	-	-	✓
11-34T	-	-	✓	-	✓	-	-	-
11-40T	-	-	-	-	-	-	-	-
11-42T	-	-	-	-	-	-	-	-
12-25T	✓	✓	-	✓	-	✓	✓	-
12-28T	✓	✓	✓	-	✓	✓	✓	✓
14-28T	✓	✓	-	✓	-	✓	✓	-

Gear	11-speed			
	RD-RX800 RD-RX805	RD-RX810 RD-RX815	RD-RX812 RD-RX817	RD-U5000-SS
	GS Front double	Closer Front double	Wider Front Single	SS
11-23T	-	-	-	-
11-25T	-	-	-	-
11-28T	✓	-	-	✓
11-30T	✓	✓	-	✓
11-32T	✓	✓	-	✓
11-34T	✓	✓	-	-
11-40T	-	-	✓	-
11-42T	-	-	✓	-
12-25T	-	-	-	-
12-28T	-	-	-	-
14-28T	-	-	-	-

10-speed C-256

Gear	10-speed						
	RD-4700			RD-4601			RD-RX400
	SS	GS Front double	GS Front triple	SS	GS Front double	GS Front triple	Closer Front double
11-25T	✓	-	✓	✓	-	✓	-
11-27T	✓	-	✓	✓	✓	✓	-
11-28T	-	✓	✓	✓	✓	✓	-
11-32T	-	✓	✓	-	✓	-	✓
11-34T	-	✓	-	-	-	-	✓
11-36T	-	-	-	-	-	-	✓
12-25T	✓	-	✓	✓	-	✓	-
12-27T	✓	-	✓	✓	✓	✓	-
12-28T	✓	✓	✓	✓	✓	✓	-
12-30T	-	✓	✓	✓	✓	✓	-
13-25T	✓	-	-	✓	-	✓	-
14-25T	✓	-	-	✓	-	✓	-

9-speed C-257

Gear	9-speed		
	RD-R3000		
	SS	GS Front double	GS Front Triple
11-25T	✓	-	-
11-28T	✓	✓	✓
11-30T	✓	✓	✓
11-32T	✓	✓	✓
11-34T	-	✓	-
12-25T	✓	-	-
12-27T	✓	-	-
13-25T	✓	-	-
14-25T	✓	-	-

8-speed C-258





Gear	8-speed		
	RD-R2000		
	SS	GS Front double	GS Front Triple
11-28T	✓	✓	✓
11-30T	✓	✓	✓
11-32T	✓	✓	✓
11-34T	-	✓	-
12-25T	✓	-	✓
13-26T	✓	-	-

7-speed C-259

Gear	7-speed	
	RD-A070	
	SMART CAGE	
11-28T	✓	
12-28T	✓	
13-28T	✓	
14-28T	✓	

Available combinations of the rear dropout, cassette sprocket/single gear and front chainwheel for designing the frame

C-471

Rear dropout design	A	Reversed (BMX) type, without derailleur hanger	
	B	Standard type, without derailleur hanger	
	C	Adjustable disc brake mount / Eccentric bottom bracket	
	D	Vertical type, with derailleur hanger	
Compatibility	NR: Not recommend		-
Crankset	E	FC-C6000	-
	F	FC-S501: Double guard spec	-
	G	FC-S501: Single guard spec	-
	K	SM-CRE61 / SM-CRE50	-
CN	H	CN-NX10 (1/2 x 1/8 inch) or HG 8S (1/2 x 3/32 inch)	-
	I	Super Narrow HG 9S	-
	J	HG 8S (1/2 x 3/32 inch)	-

Series	Speed	Brake type	Rear dropout design	Compatibility	CT use	CS / SM-GEAR	FC	CN	additional condition
ALFINE	11S / 8S	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	
			C	OK	-	SM-GEAR	G	J	-
			D	OK	CT-S500	CS-S500	F	I	-
		V-BRAKE	D	OK	CT-S510	SM-GEAR	G	J	-
			A	OK	-	SM-GEAR	G	J	-
			B	OK	-	SM-GEAR	G	J	-
			C	OK	-	SM-GEAR	G	J	-
NEXUS	8S / 7S	Disc brake	D	OK	CT-S500	CS-S500	F	I	-
			D	OK	CT-S510	SM-GEAR	G	J	-
	8S / 7S / 3S (except 3D)	Hub roller brake V-BRAKE	A	OK	-	SM-GEAR	E	H	-
			B	OK	-	SM-GEAR	G	J	-
			C	OK	-	SM-GEAR	E	H	-
			D	NR	CT-S500	CS-S500	F	I	*2
			D	OK	CT-S510	SM-GEAR	G	J	-
		Coaster brake	A	OK	-	SM-GEAR	E	H	-
			B	OK	-	SM-GEAR	G	J	-
			C	OK	-	SM-GEAR	E	H	-
			D	NR	-	-	-	-	*3
			D	NR	-	-	-	-	*4
	3D	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	
			C	OK	-	SM-GEAR	G	J	-
			D	OK	CT-S500	CS-S500	F	I	-
		V-BRAKE	D	OK	CT-S510	SM-GEAR	G	J	-
			A	OK	-	SM-GEAR	G	J	-
			B	OK	-	SM-GEAR	G	J	-
			C	OK	-	SM-GEAR	G	J	-
			D	OK	CT-S500	CS-S500	F	I	-
			D	OK	CT-S510	SM-GEAR	G	J	-
	5S for E-BIKE	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	
			C	OK	-	CS-C7000	K	J	-
			D	NR	-	-	-	-	
		Hub roller brake V-BRAKE	A	OK	-	CS-C7000	K	J	-
			B	OK	-	CS-C7000	K	J	-
			C	OK	-	CS-C7000	K	J	-
			D	NR	-	-	-	-	
		Coaster brake	A	OK	-	CS-C7000	K	J	-
			B	OK	-	CS-C7000	K	J	-
			C	OK	-	CS-C7000	K	J	-
			D	NR	-	-	-	-	

*1 Special disc brake mount design is needed.

*2 without chain guard for hub gear side.

*3 Structure of CT-S500 can't transfer chain tension by back pedalling.

*4 Not enough force of fixation against back pedalling power.

Single gear and chain combination

C-608

Series	Single gear		Chain
	Model No.	Gear thickness (mm)	Model No.
ALFINE	CS-S500	2.0	CN-E6070 CN-HG93 CN-HG53
NEXUS	SM-GEAR (2.3 mm) CS-C7000	2.3	CN-HG71 CN-HG40
	SM-GEAR (3.0 mm)	3.0	CN-NX10

Spoke protector

C-491

Select the spoke protector after checking the chart below.

It is decided by hole number of hub and number of the gear teeth, other than multiple freewheel.

Cassette sprocket												Spoke protector model					
												Flange diameter of rear hub (FH side)					
												53.8 mm			70.6 mm		
Speed	Model No.	Cassette sprocket low gear No.										Spoke hole No.			Spoke hole No.		
		28T	30T	32T	34T	36T	40T	42T	45T	46T	51T	28H	32H	36H	28H	32H	36H
12-speed	CS-M9100	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
	CS-M8100	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
	CS-M7100	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
11-speed	CS-M9001	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
	CS-M8000	-	-	-	-	-	✓	✓	-	✓	-	-	-	-	-	-	-
	CS-M7000	-	-	-	-	-	✓	✓	-	✓	-	-	-	-	-	-	-
10-speed	CS-M771-10	-	-	-	✓	✓	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG81-10	-	-	-	✓	✓	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG500-10	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-
	CS-HG50-10	-	-	-	-	✓	-	-	-	-	-	-	CP-FH56	CP-FH53	-	-	-
9-speed	CS-HG400-9 / CS-HG300-9 / CS-HG201-9 / CS-HG200-9	-	-	-	-	✓	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG400-9 / CS-HG300-9 / CS-HG201-9 / CS-HG200-9	-	-	✓	✓	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG400-9 / CS-HG300-9	✓	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	CP-FH76	CP-FH76
	CS-ROAD	✓	-	-	-	-	-	-	-	-	-	CP-FH08	CP-FH35	CP-FH31	-	-	-
8-speed	CS-HG60-81	-	-	-	✓	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG51-8	✓	✓	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	-
	CS-HG51-8	-	-	-	✓	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG41-8 CS-HG31-8	-	✓	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	-
	CS-HG41-8 CS-HG31-8	-	-	✓	✓	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG200-8	-	-	✓	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
7-speed	CS-HG41-7	✓	-	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	-
	CS-HG200-7	-	-	✓	-	-	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG200-7	✓	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	-	-

Speed	Model No.	Cassette sprocket										Spoke protector model		
		Cassette sprocket low gear No.										WH-M9000 WH-M9020 WH-M8000 WH-M8020 WH-M8000-B WH-M8020-B	WH-M8100	WH-M8120
		28T	30T	32T	34T	36T	40T	42T	45T	46T	51T			
12-speed	CS-M9100	-	-	-	-	-	-	-	✓	-	✓	-	CP-WH28	CP-WH29
	CS-M8100	-	-	-	-	-	-	-	✓	-	✓	-	CP-WH28	CP-WH29
	CS-M7100	-	-	-	-	-	-	-	✓	-	✓	-	CP-WH28	CP-WH29
11-speed	CS-M9001	-	-	-	-	-	✓	-	-	-	-	CP-WH17-A	-	-
	CS-M8000	-	-	-	-	-	✓	✓	-	✓	-	CP-WH17-A	-	-
	CS-M7000	-	-	-	-	-	✓	✓	-	✓	-	CP-WH17-A	-	-
10-speed	CS-M771-10	-	-	-	✓	✓	-	-	-	-	-	-	-	-
	CS-HG81-10	-	-	-	✓	✓	-	-	-	-	-	-	-	-
	CS-HG500-10	-	-	-	-	-	-	✓	-	-	-	-	-	-
	CS-HG50-10	-	-	-	-	✓	-	-	-	-	-	-	-	-
9-speed	CS-HG400-9 / CS-HG300-9 / CS-HG201-9 / CS-HG200-9	-	-	✓	✓	✓	-	-	-	-	-	-	-	-
	CS-HG400-9 / CS-HG300-9	✓	-	-	-	-	-	-	-	-	-	-	-	-

Speed	Model No.	Cassette sprocket										Spoke protector model	
		Cassette sprocket low gear No.										WH-MT66-29	WH-MT35 WH-MT35-275 WH-MT35-29 WH-MT15-A-275 WH-MT15-A-29
		28T	30T	32T	34T	36T	40T	42T	45T	46T	51T		
12-speed	CS-M9100	-	-	-	-	-	-	-	✓	-	✓	-	-
	CS-M8100	-	-	-	-	-	-	-	✓	-	✓	-	-
	CS-M7100	-	-	-	-	-	-	-	✓	-	✓	-	-
11-speed	CS-M9001	-	-	-	-	-	✓	-	-	-	-	-	-
	CS-M8000	-	-	-	-	-	✓	✓	-	✓	-	-	-
	CS-M7000	-	-	-	-	-	✓	✓	-	✓	-	-	-
10-speed	CS-M771-10	-	-	-	✓	✓	-	-	-	-	-	CP-WH16	CP-WH12
	CS-HG81-10	-	-	-	✓	✓	-	-	-	-	-	CP-WH16	CP-WH12
	CS-HG500-10	-	-	-	-	-	-	✓	-	-	-	-	CP-WH19
	CS-HG50-10	-	-	-	-	✓	-	-	-	-	-	CP-WH16	CP-WH12
9-speed	CS-HG400-9 / CS-HG300-9 / CS-HG201-9 / CS-HG200-9	-	-	✓	✓	✓	-	-	-	-	-	CP-WH16	CP-WH12
	CS-HG400-9 / CS-HG300-9	✓	-	-	-	-	-	-	-	-	-	CP-WH16	CP-WH08

Speed	Model No.	Cassette sprocket										Spoke protector model			
		Cassette sprocket low gear No.										WH-MT500	WH-MT501 (for 10-51T) CP-WH31 (for 10-45T)	WH-MT600	WH-MT620 (for 10-51T) CP-WH31 (for 10-45T)
		28T	30T	32T	34T	36T	40T	42T	45T	46T	51T				
12-speed	CS-M9100	-	-	-	-	-	-	✓	-	-	✓	-	CP-WH27 (for 10-51T) CP-WH31 (for 10-45T)	-	CP-WH27 (for 10-51T) CP-WH31 (for 10-45T)
	CS-M8100	-	-	-	-	-	-	✓	-	✓	✓	-	-	-	-
	CS-M7100	-	-	-	-	-	-	✓	-	✓	✓	-	-	-	-
11-speed	CS-M9001	-	-	-	-	-	✓	-	-	-	-	-	-	CP-WH26	-
	CS-M8000	-	-	-	-	-	✓	✓	-	✓	-	-	-	CP-WH26	-
	CS-M7000	-	-	-	-	-	✓	✓	-	✓	-	-	-	CP-WH26	-
10-speed	CS-M771-10	-	-	-	✓	✓	-	-	-	-	-	CP-WH21	-	CP-WH16	-
	CS-HG81-10	-	-	-	✓	✓	-	-	-	-	-	CP-WH21	-	CP-WH16	-
	CS-HG500-10	-	-	-	-	-	✓	-	-	-	-	CP-WH21	-	-	-
	CS-HG50-10	-	-	-	-	✓	-	-	-	-	-	CP-WH21	-	CP-WH16	-
9-speed	CS-HG400-9 / CS-HG300-9 / CS-HG201-9 / CS-HG200-9	-	-	✓	✓	✓	-	-	-	-	-	-	-	-	-
	CS-HG400-9 / CS-HG300-9	✓	-	-	-	-	-	-	-	-	-	-	-	-	-

Model No.	Cassette Sprocket total gear No.			Cassette Sprocket low gear No.						
	9-speed	10-speed	11-speed**	23T	25T	27T	28T	30T	32T*	34T
WH-R9170-C60	-	-	✓	-	CP-W1460					-
WH-R9170-C40	-	✓	-	-	CP-W1460					-
WH-R9100-C60	-	-	✓	-	CP-W124					-
WH-R9100-C40	-	✓	-	-	CP-W124					-
WH-R9100-C24	-	-	✓	CP-WH23	CP-W120					-
	-	✓	-	CP-W020					-	
WH-RS770-C30	-	-	✓	-	CP-W1460					CP-W1460
	-	✓	-	-	CP-W1460					-
WH-RS700-C30	-	-	✓	-	CP-W124					CP-W124
	-	✓	-	-	CP-W124					-
WH-RS500 WH-RS300 WH-RS11	-	-	✓	CP-WH23				-	CP-W120	-
WH-RS11	-	✓	-	CP-W020					-	
WH-9000-C24-TU WH-RS330-CL	-	-	✓	CP-W184				-	CP-W124	-
	-	✓	-	CP-W024					-	
WH-RX830	-	✓	✓	-	CP-W1220					CP-WH14 CP-WH14A
WH-RX31	-	✓	✓	-	CP-W122					-
WH-RS100	-	✓	✓	-	CP-WH24					CP-FH53
WH-RS010-CL	-	✓	✓	-	CP-WH24					CP-FH53
WH-R501 WH-R501-A	✓	✓	-	CP-FH06		CP-FH31	CP-FH46	CP-WH24	-	
WH-RS170	-	-	✓	CP-FH08			-	CP-WH12	-	
	-	✓	-	CP-FH40 CP-FH41			CP-FH40 CP-FH41	CP-WH12	CP-WH12	
WH-RS171	-	-	✓	CP-FH08			-	CP-WH12	-	
	-	✓	-	CP-FH40 CP-FH41			CP-FH40 CP-FH41	CP-WH12	CP-WH12	
WH-RX010-CL	-	-	✓	CP-FH08			-	CP-WH12	-	
	-	✓	-	CP-FH40 CP-FH41			CP-FH40 CP-FH41	CP-WH12	CP-WH12	
WH-RX010	✓	✓	-	CP-FH08			CP-FH40 CP-FH41	CP-WH12	-	
WH-U5000	-	✓	✓	-	CP-W122					-
WH-RS370	-	✓	✓	-	CP-WH12					-
	-	✓	-	CP-WH41				CP-WH12	-	
WH-RX570	-	✓	✓	-	TBD					-
	-	✓	-	CP-WH41				CP-WH12	-	

* For compact crank set

** 11-speed : CS-R9100 / CS-6800 / CS-5800

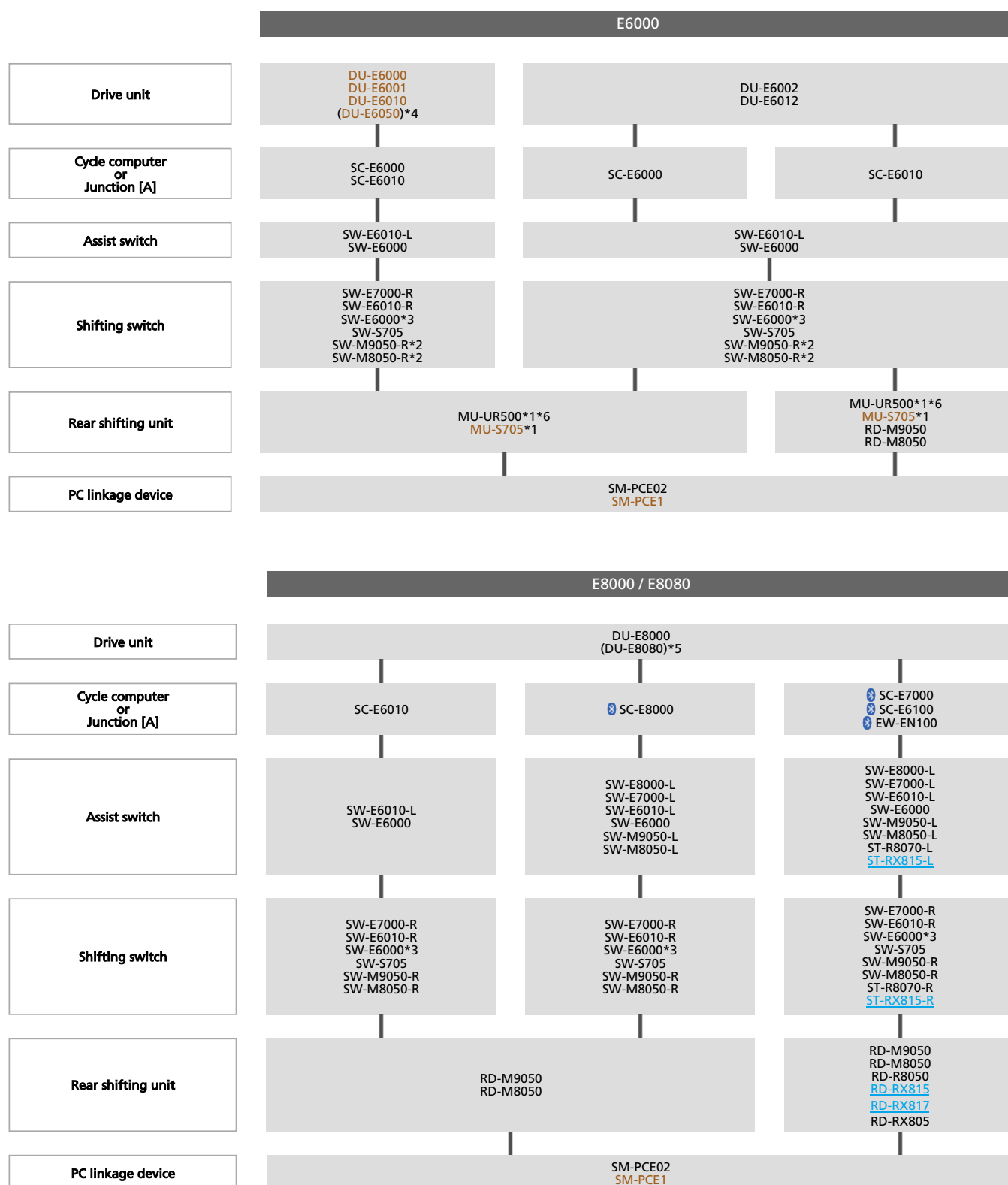
Spoke protector for Road

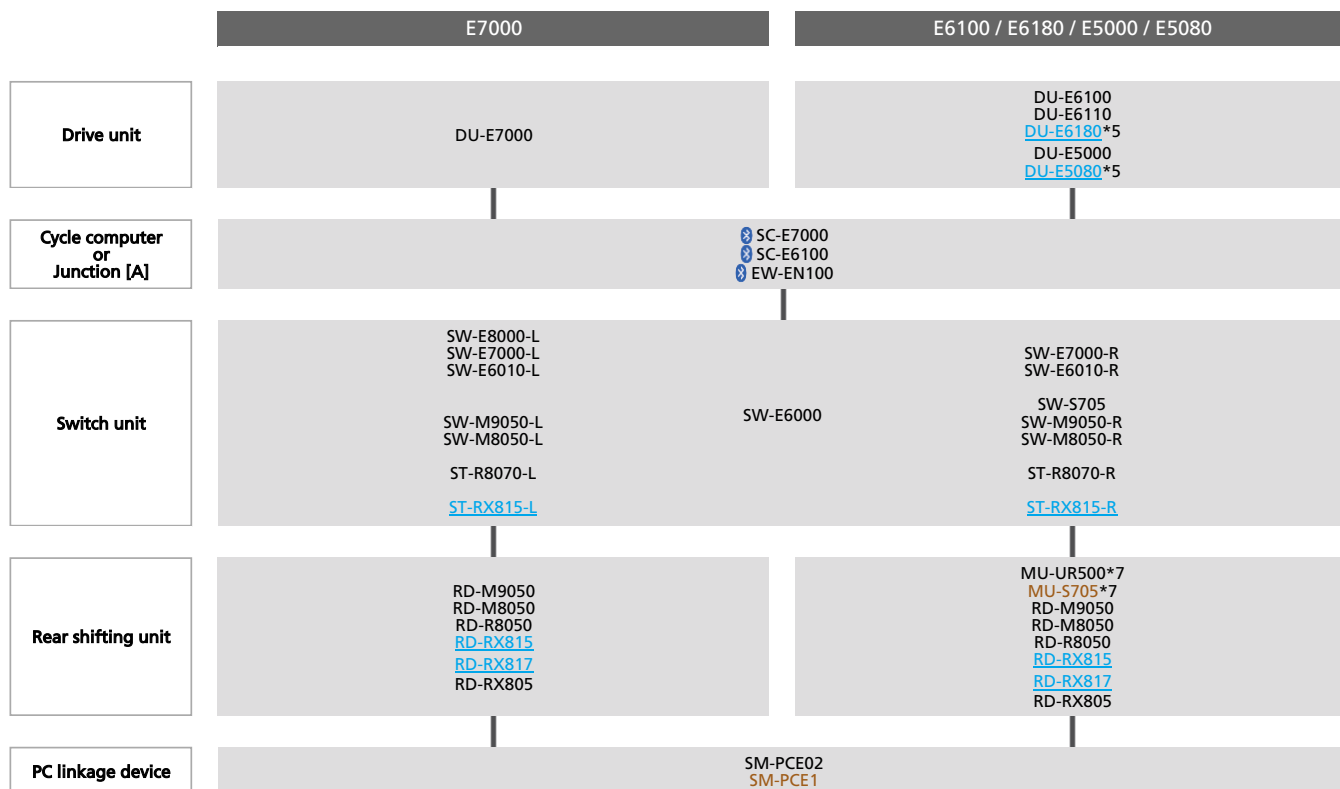
Speed	Model No.	Cassette sprocket low gear No.										Spoke holes No.			
		21T	23T	24T	25T	26T	27T	28T	30T	32T	34T	24H	28H	32H	36H
8, 9, 10-speed	Road	✓	✓	-	✓	-	-	-	-	-	-	CP-FH06	CP-FH08	CP-FH05	CP-FH06
		-	-	-	-	✓	-	-	-	-	-	CP-FH31	CP-FH08	CP-FH35	CP-FH31
		-	-	-	-	-	✓	✓	-	-	-	CP-FH31	CP-FH08	CP-FH35	CP-FH31
		-	-	-	-	-	-	-	✓	-	-	-	-	CP-FH45	CP-FH46
7-speed	CS-HG200-7	-	-	-	-	-	-	✓	-	-	-	-	-	CP-FH35	CP-FH50
	MF-TZ500-7 MF-TZ21	-	-	-	-	-	-	✓	-	-	-	-	-	-	CP-HG22/ MF-TZ500-7-CP/ MF-TZ21-CP

Spoke protector is not available for Road 11-speed FREEHUB.

E-BIKE system (with E-TUBE PROJECT ver.3.4.3)

C-525





Limitation of function

- *1 Full automatic shift is available only with 8-speed and 5-speed internal gear hub system (Not available with Rear Derailleur).
- *2 Not support full automatic shift.
- *3 Need to change Switch setting by E-TUBE PROJECT.
- *4 North American market only.
- *5 Japanese market only.
- *6 Compatible with 11-speed and 8-speed internal geared hub system only.
- *7 Full automatic shift is available only with 8 speed and 5 speed internal gear hub system (Not available with Rear Derailleur)

SHIMANO STEPS front drive train compatibility

		Chainring										Chain device		Crank arm									
		SM-CRE50	SM-CRE60	SM-CRE61	SM-CRE70	SM-CRE70-B	SM-CRE70-12	SM-CRE70-12-B	SM-CRE80	SM-CRE80-B	SM-CRE80-12-B	SM-CRE80-R	SM-CDE70 (Frame mount)	SM-CDE80	SM-CDE80	FC-E5000	FC-E5010	FC-E6000	FC-E6010	FC-E6100	FC-E8000	FC-E8050	FC-M8050
Drive Unit	DU-E8000 DU-E8080	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓*2	✓	✓*2	-	-	-	-	✓	✓	✓	✓	✓
	DU-E7000	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓*2	✓	✓*2	-	-	-	-	✓	✓	✓	✓	✓
	DU-E6100 DU-E6110 DU-E6180	-	-	✓*1	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	✓	✓	-	-	-
	DU-E6002 DU-E6012	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-
	DU-E5000 DU-E5080	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-

*1 Arm cover packed in 38T w/o CG is designed only for FC-E6100

*2 Only for 53 mm chainline

SHIMANO STEPS rear drive train compatibility

E8000 / E8080 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
Rear derailleur system	12-speed	SM-CRE80-12-B 34T / 36T / 38T	-	SM-CDE80 SM-CDE70	-	CS-M9100-12 CS-M8100-12 CS-M7100-12	CN-M9100 CN-M8100 CN-M7100
		SM-CRE70-12-B 36T	-				
		SM-CRE70-12 42T	Double	-			
	11-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)		11-speed CS	
		SM-CRE80 34T / 38T	-	SM-CDE80 (Frame mount)		MTB 11-speed CS	
		SM-CRE80 44T	Double	-			
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 (Frame mount)			
		SM-CRE70 38T	Double	-			
	10-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 10-speed CS	CN-E6090-10
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)		10-speed CS	
		SM-CRE80 34T / 38T	-			MTB 10-speed CS	
		SM-CRE80 44T	Double	-			
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	Double	-			
	9-speed	SM-CRE70-B 34T	-	SM-CDE70	-	MTB 9-speed CS	CN-E6070-9
		SM-CRE70 38T	-	SM-CDE70			
		SM-CRE70 38T	Double	-			

E7000 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
Rear derailleur system	12-speed	SM-CRE80-12-B 34T / 36T / 38T	-	SM-CDE80 SM-CDE70	-	CS-M9100-12 CS-M8100-12 CS-M7100-12	CN-M9100 CN-M8100 CN-M7100
		SM-CRE70-12-B 36T	-				
		SM-CRE70-12 42T	Double	-			
	11-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)		11-speed CS	
		SM-CRE80 34T / 38T	-	SM-CDE80 (Frame mount)		MTB 11-speed CS	
		SM-CRE80 44T	Double	-			
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 (Frame mount)			
		SM-CRE70 38T	Double	-			
	10-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 10-speed CS	CN-E6090-10
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)		10-speed CS	
		SM-CRE80 34T / 38T	-			MTB 10-speed CS	
		SM-CRE80 44T	Double	-			
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	Double	-			
	9-speed	SM-CRE70-B 34T	-	SM-CDE70	-	MTB 9-speed CS	CN-E6070-9
		SM-CRE70 38T	-	SM-CDE70			
		SM-CRE70 38T	Double	-			

E6100 / E6180 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
DI2 Internal geared hub	11-speed 8-speed	SM-CRE61	Single / w/o	-	-	SM-GEAR	8-speed
			Double		CT-S500	CS-S500	9-speed
			Single / w/o		CT-S510	SM-GEAR	8-speed
	5-speed	SM-CRE61	Single / w/o	-	-	CS-C7000	8-speed
Mechanical Internal geared hub	ALFINE 11-speed 8-speed	SM-CRE61	Single / w/o	-	-	SM-GEAR	8-speed
			Double		CT-S500	CS-S500	9-speed
			Single / w/o		CT-S510	SM-GEAR	8-speed
	NEXUS 8-speed	SM-CRE61	Single / w/o	-	-	SM-GEAR	8-speed
			w/o		CT-S500 CT-S510	CS-S500 SM-GEAR	CN-NX10
			Double				9-speed
	NEXUS 7-speed	SM-CRE61	Single / w/o	-	CT-S510	SM-GEAR	8-speed
			w/o				CN-NX10
			Single / w/o				8-speed
	NEXUS 5-speed	SM-CRE61	Single	-	-	CS-C7000	8-speed
			w/o		-		CN-NX10
Rear derailleur system	11-speed	SM-CRE61	Double	-	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11
		SM-CRE80-R 47T	w/o	SM-CDE80 (Frame mount)		11-speed CS	
	10-speed	SM-CRE61	Double	-	-	MTB 10-speed CS	CN-E6090-10
		SM-CRE80-R 47T	w/o	SM-CDE80 (Frame mount)		10-speed CS	
	9-speed	SM-CRE61	Double	-	-	MTB 9-speed CS	CN-E6070-9
	8-speed	NA					

E6000 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
DI2 Internal geared hub	11-speed 8-speed	SM-CRE60	Single / w/o	-	-	SM-GEAR	8-speed
			Double		CT-S500	CS-S500	9-speed
			Single / w/o		CT-S510	SM-GEAR	8-speed
Mechanical Internal geared hub	ALFINE 11-speed 8-speed	SM-CRE60	Single / w/o	-	-	SM-GEAR	8-speed
			Double		CT-S500	CS-S500	9-speed
			Single / w/o		CT-S510	SM-GEAR	8-speed
	NEXUS 8-speed	SM-CRE60	Single	-	-	SM-GEAR	8-speed
			w/o				CN-NX10
			Double		CT-S500	CS-S500	9-speed
			Single / w/o		CT-S510	SM-GEAR	8-speed
Rear derailleur system	11-speed	SM-CRE60	Double	-	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11
	10-speed	SM-CRE60	Double	-	-	MTB 10-speed CS	CN-E6090-10
	9-speed	SM-CRE60	Double	-	-	MTB 9-speed CS	CN-E6070-9
	8-speed	NA					

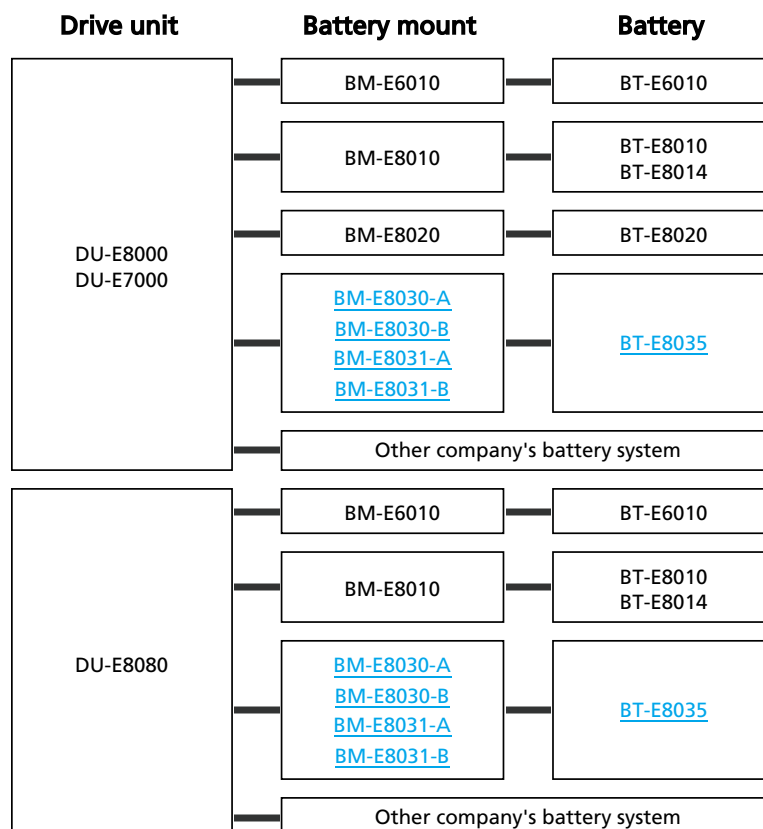
E5000 / E5080 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
DI2 Internal geared hub	11-speed 8-speed	SM-CRE50	Single / w/o	-	-	SM-GEAR	8-speed
			Double		CT-S500	CS-S500	9-speed
			Single / w/o		CT-S510	SM-GEAR	8-speed
Mechanical Internal geared hub	5-speed	SM-CRE50	Single / w/o	-	-	CS-C7000	8-speed
	ALFINE 11-speed 8-speed	SM-CRE50	Single / w/o	-	-	SM-GEAR	8-speed
			Double		CT-S500	CS-S500	9-speed
			Single / w/o		CT-S510	SM-GEAR	8-speed
	NEXUS 8-speed	SM-CRE50	Single / w/o	-	-	SM-GEAR	8-speed
			w/o				CN-NX10
			Double		CT-S500	CS-S500	9-speed
			Single / w/o		CT-S510	SM-GEAR	8-speed
	NEXUS 7-speed	SM-CRE50	Single / w/o	-	-	SM-GEAR	8-speed
			w/o				CN-NX10
			Single / w/o		CT-S510	SM-GEAR	8-speed
	NEXUS 5-speed	SM-CRE50	Single	-	-	CS-C7000	8-speed
			w/o				CN-NX10
Rear derailleur system	11-speed	SM-CRE50	Double	-	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11
	10-speed	SM-CRE50	Double	-	-	MTB 10-speed CS	CN-E6090-10
	9-speed	SM-CRE50	Double	-	-	MTB 9-speed CS	CN-E6070-9
	8-speed	NA					

Battery

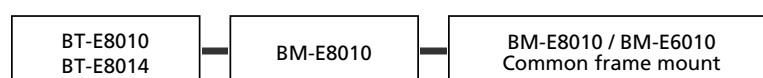
Batteries shipped in the country / region are different.

Drive unit	Battery mount	Battery
DU-E6000	SM-BME60-A SM-BME60-B	BT-E6000 BT-E6001
	SM-BME61	BT-E6010
DU-E6001 DU-E6010 DU-E6050	BM-E6000-A BM-E6000-B SM-BME60-A SM-BME60-B	BT-E6000 BT-E6001
	BM-E6010 SM-BME61	BT-E6010
	BM-E8010	BT-E8010 BT-E8014
	BM-E8020	BT-E8020
DU-E6002 DU-E6012	BM-E6000-A BM-E6000-B	BT-E6000 BT-E6001
	BM-E6010	BT-E6010
	BM-E8010	BT-E8010 BT-E8014
	BM-E8020	BT-E8020
	Other company's battery system	
DU-E6100 DU-E6110 DU-E6180 DU-E5000 DU-E5080	BM-E6000-A BM-E6000-B	BT-E6000 BT-E6001
	BM-E6010	BT-E6010
	BM-E8010	BT-E8010 BT-E8014
	BM-E8020	BT-E8020
	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BT-E8035
	Other company's battery system	



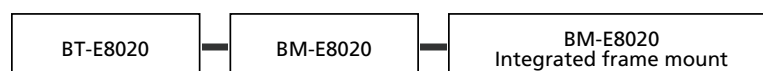
External frame mount type

MTB, URBAN, Trekking use

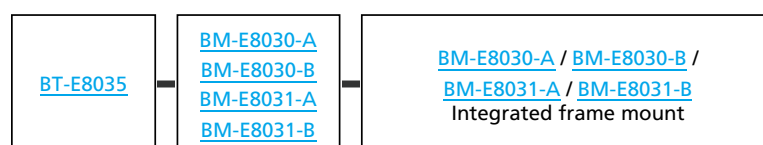


Integrated frame mount type

MTB, URBAN, Trekking use

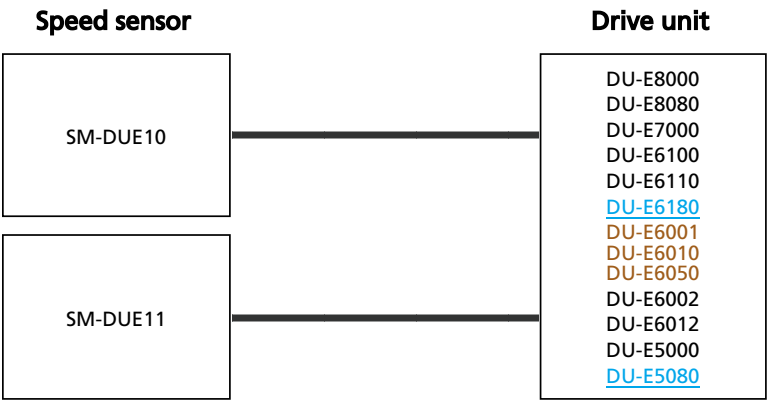


ROAD, MTB, URBAN, Trekking use



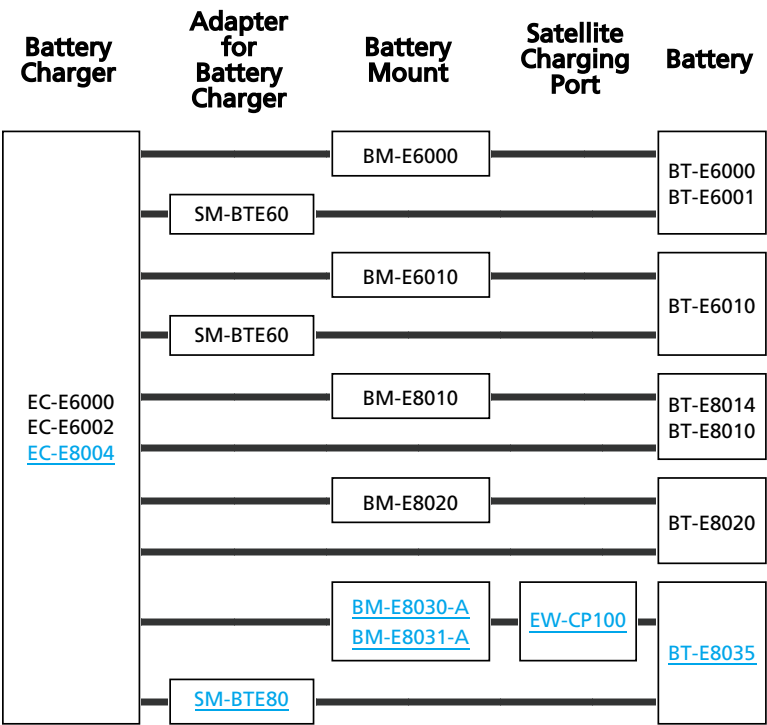
Speed sensor and drive unit compatibility

C-549



Battery and battery charger compatibility

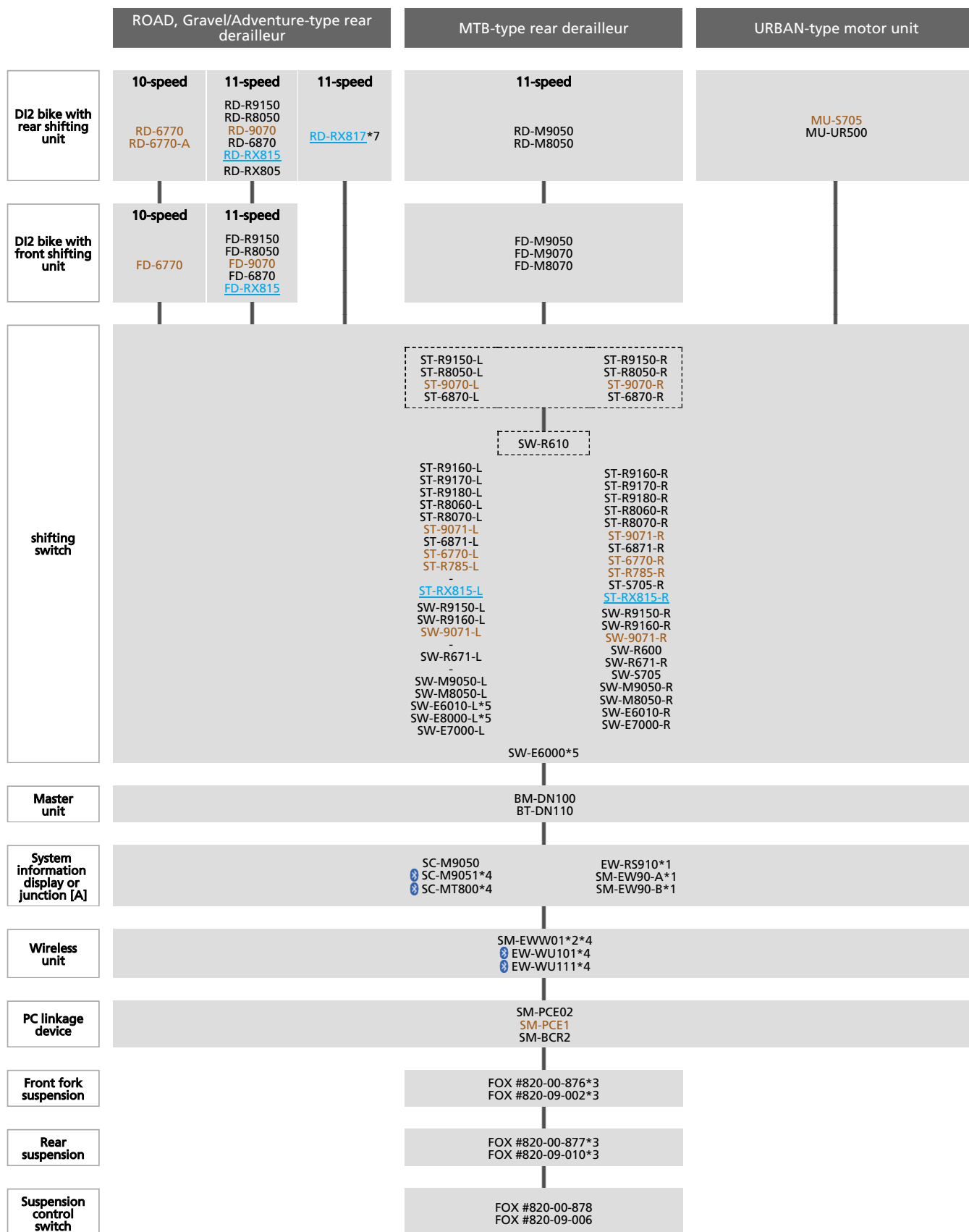
C-562



E-TUBE compatibility chart with E-TUBE PROJECT ver.3.4.3

C-473

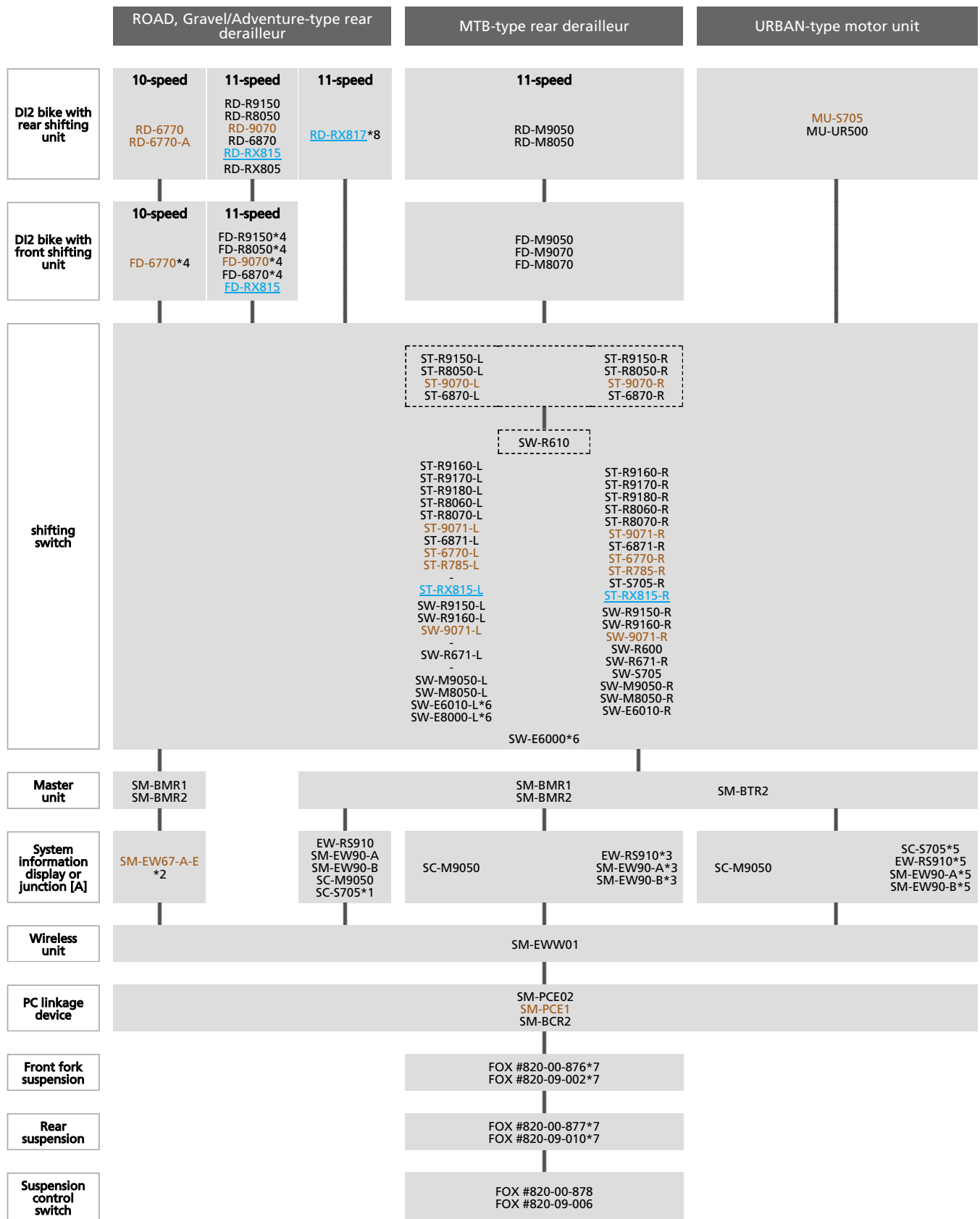
DI2 with BM-DN100 / BT-DN110



Limitation of function with BM-DN100 / BT-DN110

- *1 Shifting adjustment mode for **MU-S705** and MU-UR500 is not supported (need E-TUBE PROJECT to adjust).
- *2 Not possible to connect to E-TUBE PROJECT for tablet/smartphone, as no support for Bluetooth®LE.
- *3 A designated control switch and/or the combination SW-M9050/M8050-L with SC-M9050/SC-M9051/SC-MT800 is required to operate.
- *4 The system accepts just 1 unit with wireless chip (doesn't work if plural units with wireless chip are connected).
- *5 Need to change Switch setting by E-TUBE PROJECT.
- *6 SC-M9050, SC-M9051 or SC-MT800 is required for SYNCHRONIZED SHIFT in MTB category.
- *7 For front single models only. Cannot be used in combination with a front derailleur.

DI2 with SM-BMR1 / SM-BMR2 / SM-BTR2



Limitation of function with SM-BMR1 / SM-BMR2 / SM-BTR2

*1 SC-S705

- Front derailleur position will not appear on display.
- Recovery from Rear derailleur protection function is not available.
- Front / Rear derailleur adjustment mode is not available. Use E-TUBE PROJECT software.
- SC-S705 has only 1 E-TUBE port for ST / SW.
- SC-S705 may not turn on the display by front shifting switch.

*2 SM-BCR2 requires any device which has charging connector.

SM-EW67-A-E (Junction [A]) is not compatible with SM-BCR2 and SM-BTR2.

*3 SC-M9050 is required for SYNCHRONIZED SHIFT in case with MTB-type Rear Derailleur.

*4 SYNCHRONIZED SHIFT is not available with Road-type Rear Derailleur.

*5 Shifting adjustment mode for MU-S705 and MU-UR500 is not supported (need E-TUBE PROJECT to adjust).

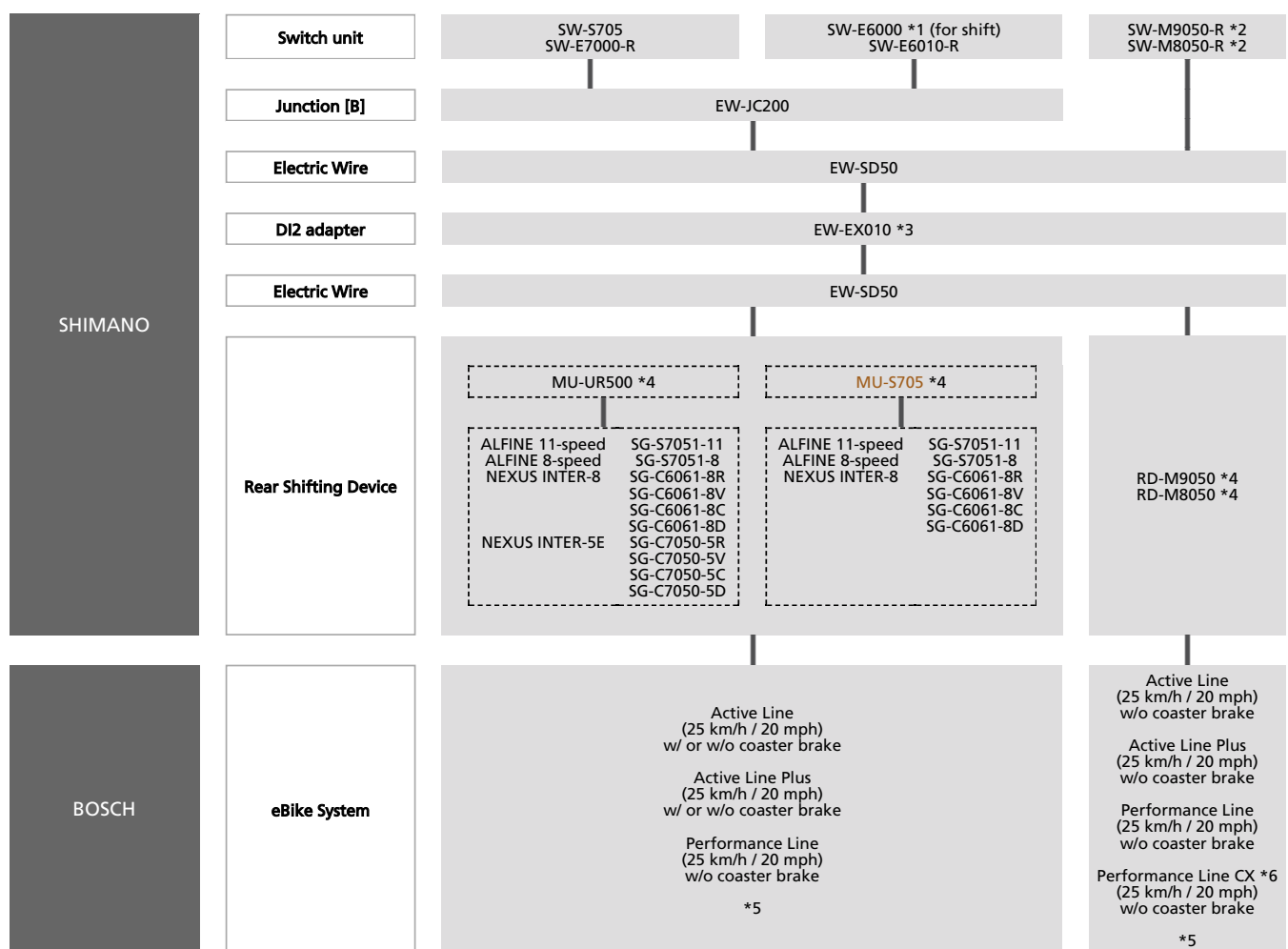
*6 Need to change Switch setting by E-TUBE PROJECT.

*7 A designated control switch is needed to operate the suspension system.

*8 For front single models only. Cannot be used in combination with a front derailleur.

DI2 adapter compatibility

C-429



Limitation of function

*1: Need to change switch setting by E-TUBE PROJECT

*2: Not support full automatic shift

*3: EW-EX010 and BOSCH eBike system are connected by Y-harness which is provided from BOSCH

*4: Full automatic shift is available only with internal geared hub 8/11-speed by MU-UR500 / MU-S705 (Not available with Rear Derailleur and Inter-5E)

*5: No compatibility with "Classic+ Line" and "Performance Line (45 km/h)"

*6: No compatibility with "Performance Line CX (GEN4)"

Compatibility between Bracket and ID/SC

C-548

