



2026-2027

**Products compatibility
Information**

Compatibility

Compatibilities are subject to change without prior

Visit SHIMANO PRODUCT WEBSITE for the latest information.

Notations and Terminology

Product Category Abbreviation

BB	Bottom bracket	HRB, BR	Roller brake
BC	Brake cable	I-SPEC	Integration mounting system of
BCC	Charger cord		brake and shifting lever
BCR, EC	Battery charger	ID	CI-DECK
BH	Brake hose	JC	Junction
BL	Brake lever	MF	Multiple freewheel
BM	Battery mount	MU	Motor unit
BR	Brake caliper	O.L.D.	Over Locknut Dimension
BT, BTR	Battery	OT	Shift outer casing
CB	Coaster brake	P.C.D.	Pitch Circle Diameter
CC, EWC	Wire cover	PCE	PC linkage device
CD	Chain device	PD	Pedals
CG	Chain guard	PM	POWER MODULATOR
CJ	Cassette joint	QR	Quick release
CN	Chain	RD	Rear derailleur
CP	Spoke protector	RT, SMRT	Rotor
CR	Chainring	RTAD	Rotor adapter
CS	Cassette	SB	REVOSHIFT shifter integrated with
CT	Chain tensioner		brake lever
DH	Hub dynamo	SC	Cycle computer System information
DU	Drive unit		display
EW	Electric wire	SF	Single freewheel
EWCP	Satellite charging port	SG	Internal geared hub
EWEX	Di2 adapter, CAN adapter	SL	Shifter
EWSW	Satellite system ON/OFF switch	SPD	SHIMANO PEDALING DYNAMICS
EWV, WU	Wireless unit	SPD-SL	SHIMANO PEDALING DYNAMICS-SL
FC	Crankset, Crank arm	ST	DUAL CONTROL LEVER : Shifter
FD	Front derailleur		integrated with brake lever
FH	FREEHUB	SW	Shift switch, Switch unit, Satellite
GM	Grommet		shifter
HB	Front hub	WH	Wheel
HP	Head parts		

Model no. color definition

<u>XX-####</u>	New models
XX-####	Current line-up models
XX-####	Discontinued models

NOTE

Status of each product may vary depending on the distribution status of the products and the timing of this document's updates.

Compatibility

Drivetrain for MTB, LIFESTYLE components C-432

Rear drivetrain compatibility [MTB, LIFESTYLE] C-433	12
Front drivetrain compatibility [MTB, Trekking, LIFESTYLE] C-440	23
Front derailleur and crankset C-447	32
Front derailleur and chain line (TOURNEY) C-448	32
Crankset, bottom bracket and chain line [MTB, LIFESTYLE] C-449	33

Drivetrain for ROAD, Gravel, LIFESTYLE components C-453

9, 10, 11-speed rear drivetrain compatibility C-806	35
Rear drivetrain compatibility C-454	36
Front drivetrain compatibility C-455	43

Brake system for ROAD, Gravel, LIFESTYLE components C-737

Brake systems compatibility [ROAD, LIFESTYLE] C-456	49
Hydraulic systems compatibility [ROAD, Gravel] C-499	51
Hydraulic systems compatibility [URBAN, LIFESTYLE] C-500	52
Compatibility of specific brake lever and shifter C-738	53

I-SPEC C-156

Compatibility of I-SPEC shifter and brake lever C-157	55
Compatibility of Shift Switch and I-SPEC brake lever C-744	58

Disc brake C-460

SHIMANO brake oil compatibility C-736	59
Disc brake caliper and rotor compatibility C-461	59
Compatibility of lock ring with hubs C-612	63
Compatibility between brake systems (MT400 series) C-606	63
Combination chart (mechanical disc brake) C-462	63
Compatibility between hydraulic disc brake hose C-186	64
Compatibility between banjo screw C-625	70
Brake pad line-up C-192	70

Compatibility of brake calipers and spacers with different rotor thicknesses when used in combination	C-808	74
Disc brake mount adapter	C-193	75

Rim brake C-200

Brake / Shoe line-up	C-201	77
Brake shoe recommendation to rim width	C-202	79

Cable System C-605

Polymer-coated brake cable (BC-9000 / BC-R680) compatible chart	C-306	80
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V-BRAKE and Roller brake C-465

Compatibility between brake systems	C-466	81
Brake lever with switch compatibility	C-467	82

Cassette C-544

FREEHUB and cassette spline compatibility	C-731	84
7-speed rear derailleur and FREEHUB compatibility	C-817	86
Compatibility between rear derailleur and cassette gear teeth [ROAD, Gravel, METREA]	C-254	87
LINKGLIDE cassette and FREEHUB compatibility	C-649	89

ALFINE, NEXUS components C-470

Available combinations of the dropout, sprocket and crankset for designing the frame	C-471	90
Mechanical internal geared hub / SM (CJ) COMPATIBILITY CHART	C-647	92
Sprocket and chain combination	C-608	92

CARGO BIKE related components C-651

Compatibility for DIN 79010:2020-02	C-672	93
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Spoke protector C-298

Spoke protector	C-491	95
Spoke protector compatible with MTB, Gravel wheel	C-299	96
Spoke protector compatible with ROAD, Gravel, METREA wheel	C-300	99

E-BIKE compatibility chart C-431

Compatibility chart for E-BIKE products	C-525	100
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Drivetrain compatibility C-488	106
Switch unit / cycle computer and brake lever compatibility C-421	114
Battery and battery mount compatibility C-511	116
System on/off function compatibility C-629	121
Configuration of assist switch functions C-781	122
Speed sensor compatibility C-549	123
Battery and battery charger compatibility C-562	124
ABS compatibility C-715	126
Crank arm for 3rd party E-BIKE system C-783	128

Electronic Product Information C-472

Di2 product compatibility C-473	129
Di2 compatibility for 3rd party E-BIKE system C-429	140

CI-DECK C-547

Compatibility between Bracket and ID/SC C-548	145
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Drivetrain for MTB, LIFESTYLE components

C-432

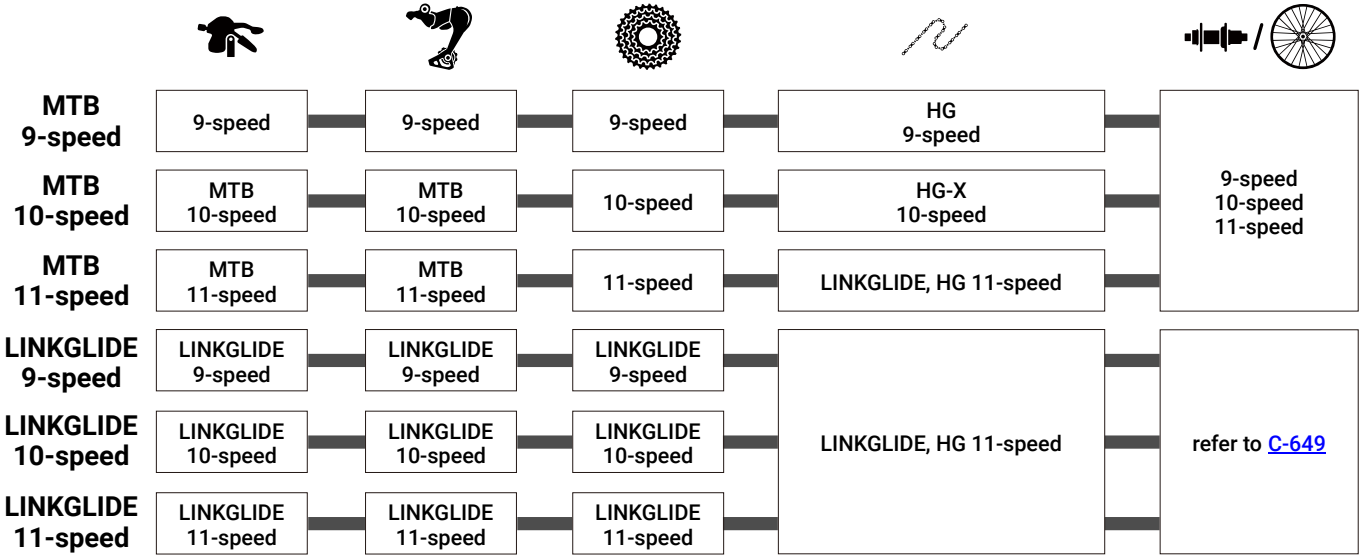
5. Compatibility

Rear drivetrain compatibility [MTB, LIFESTYLE]

C-433

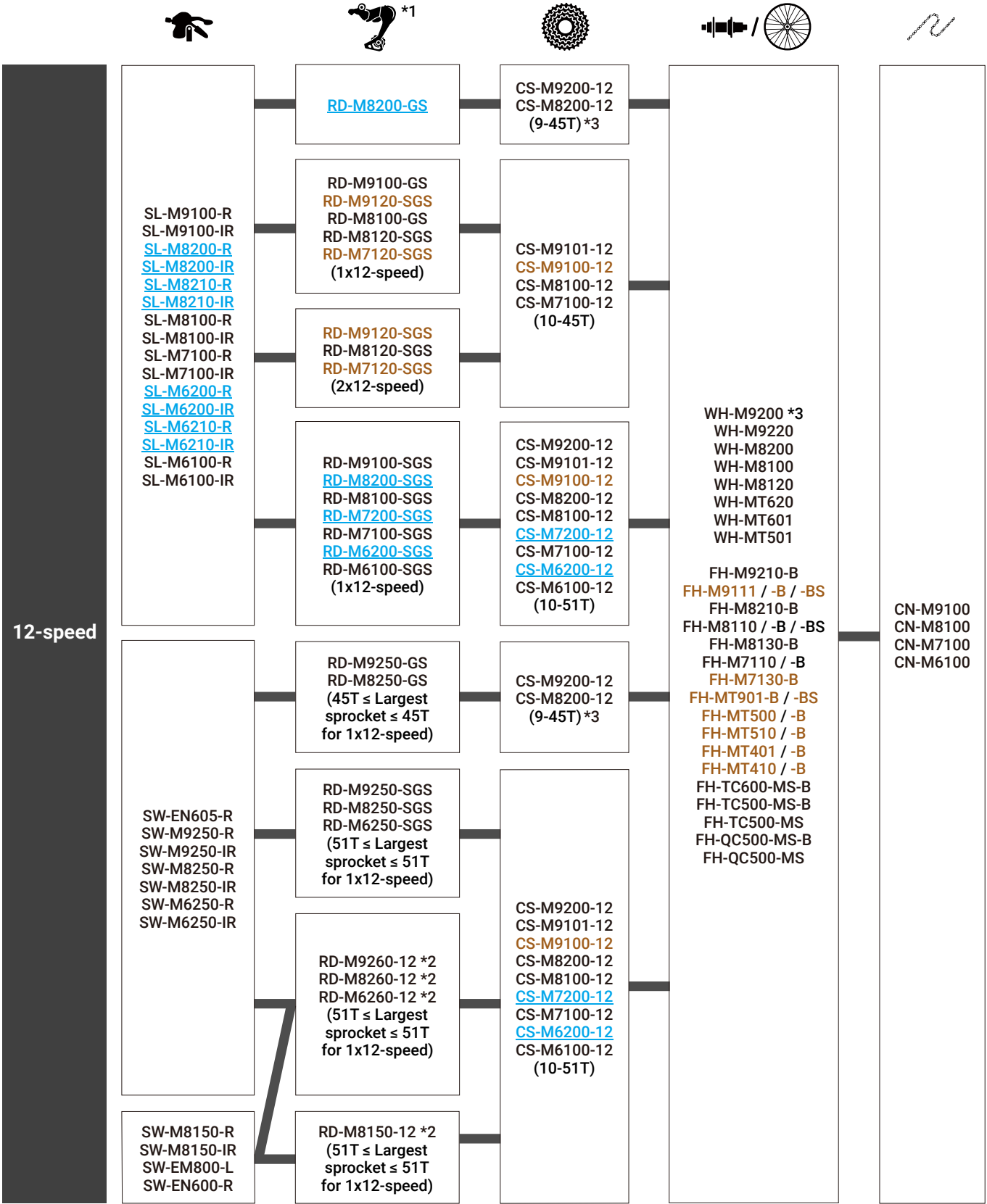
9,10,11-speed rear drivetrain compatibility

C-434



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

5. Compatibility



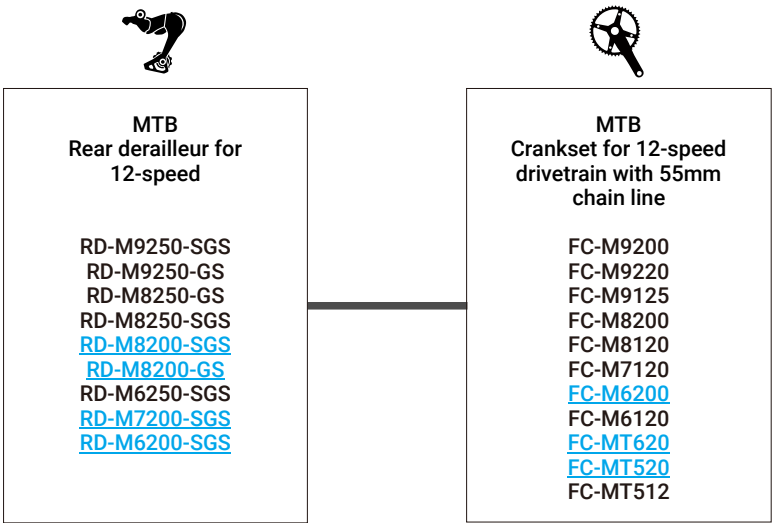
*1 Method to adjust the end adjustment screw is different from conventional rear derailleurs. For details, refer to dealer's manual.

*2 Only for E-BIKE

*3 Do not use for E-BIKE

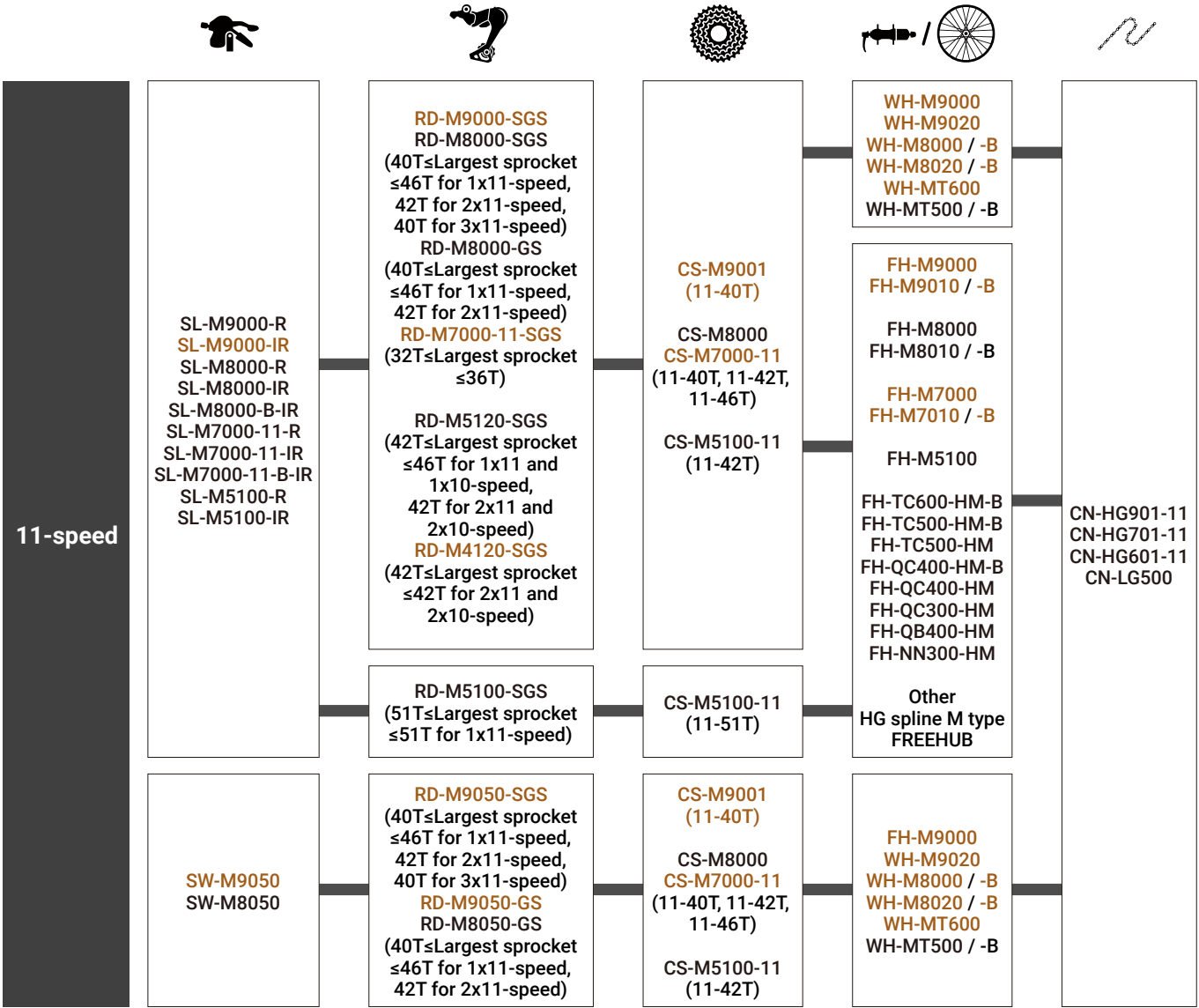
Front x Rear drivetrain compatibility for 12-speed [MTB] C-780

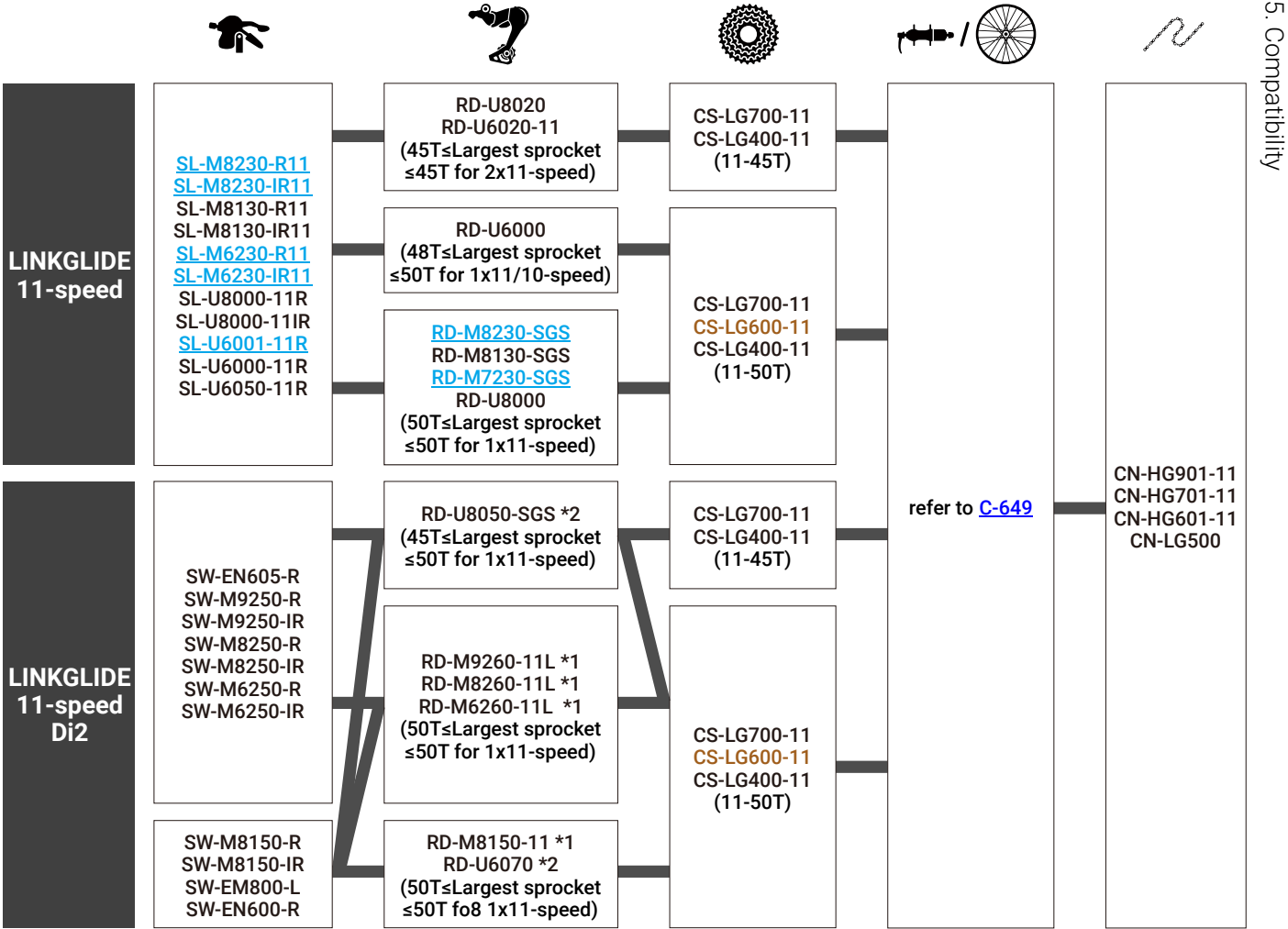
RD-M9250 / RD-M8250 / [RD-M8200](#) / [RD-M7200](#) / RD-M6250 / [RD-M6200](#) are compatible with all crankset for 12-speed with 55 mm chain line.



11-speed rear drivetrain [MTB, LIFESTYLE] C-435

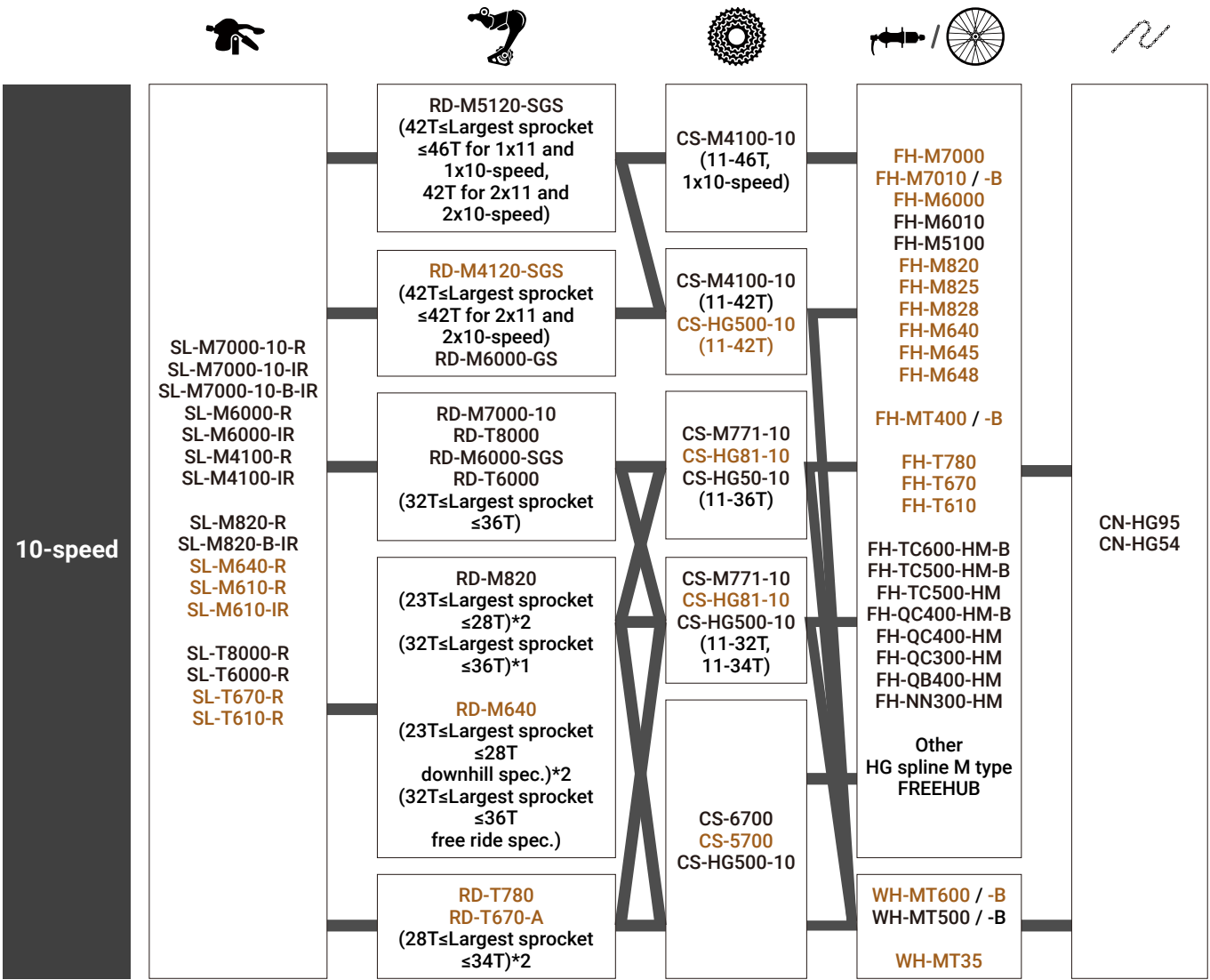
5. Compatibility

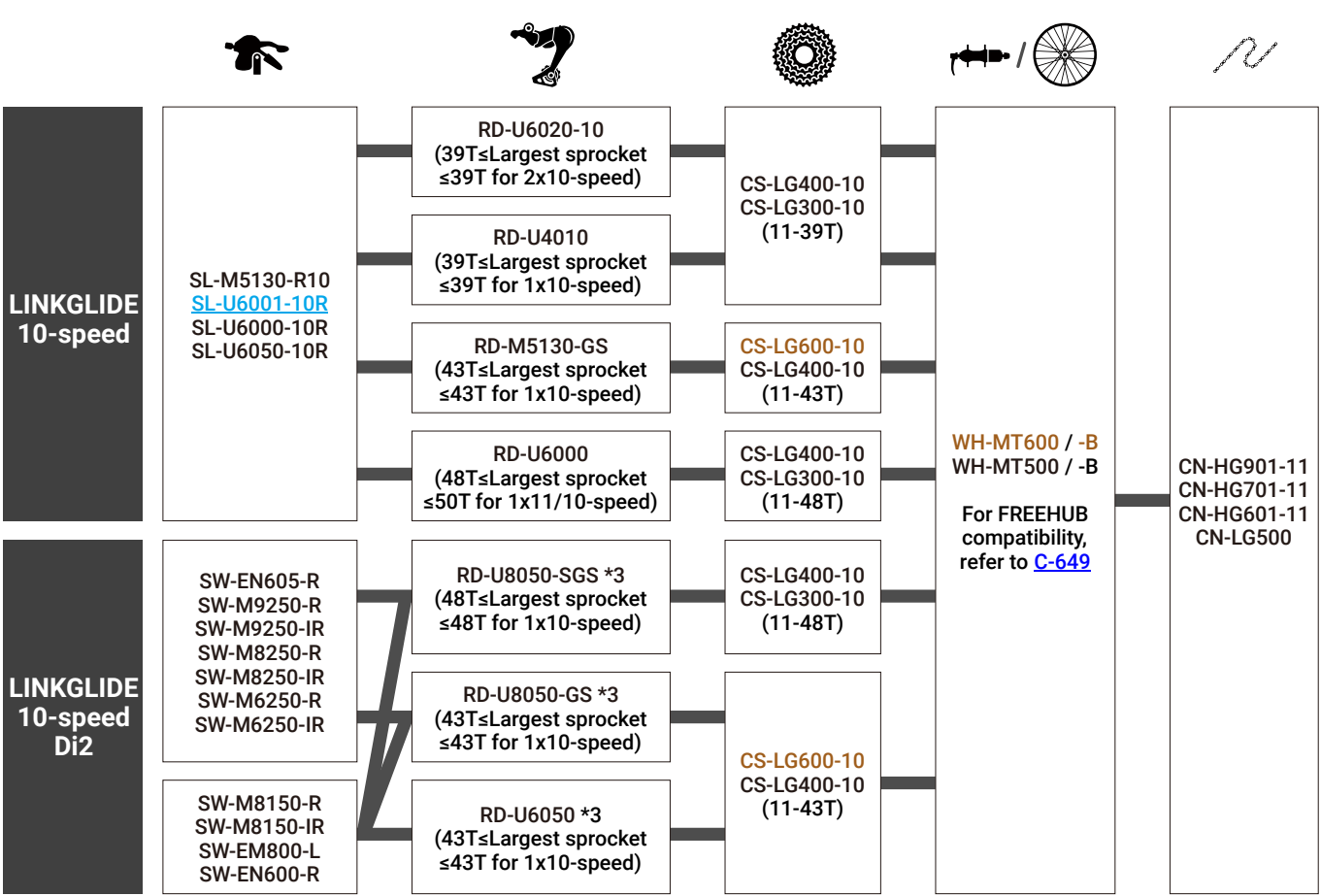




*1 Only for E-BIKE
*2 For E-BIKE or Q'AUTO (FH-U6060) bike

10-speed rear drivetrain [MTB, LIFESTYLE] C-436

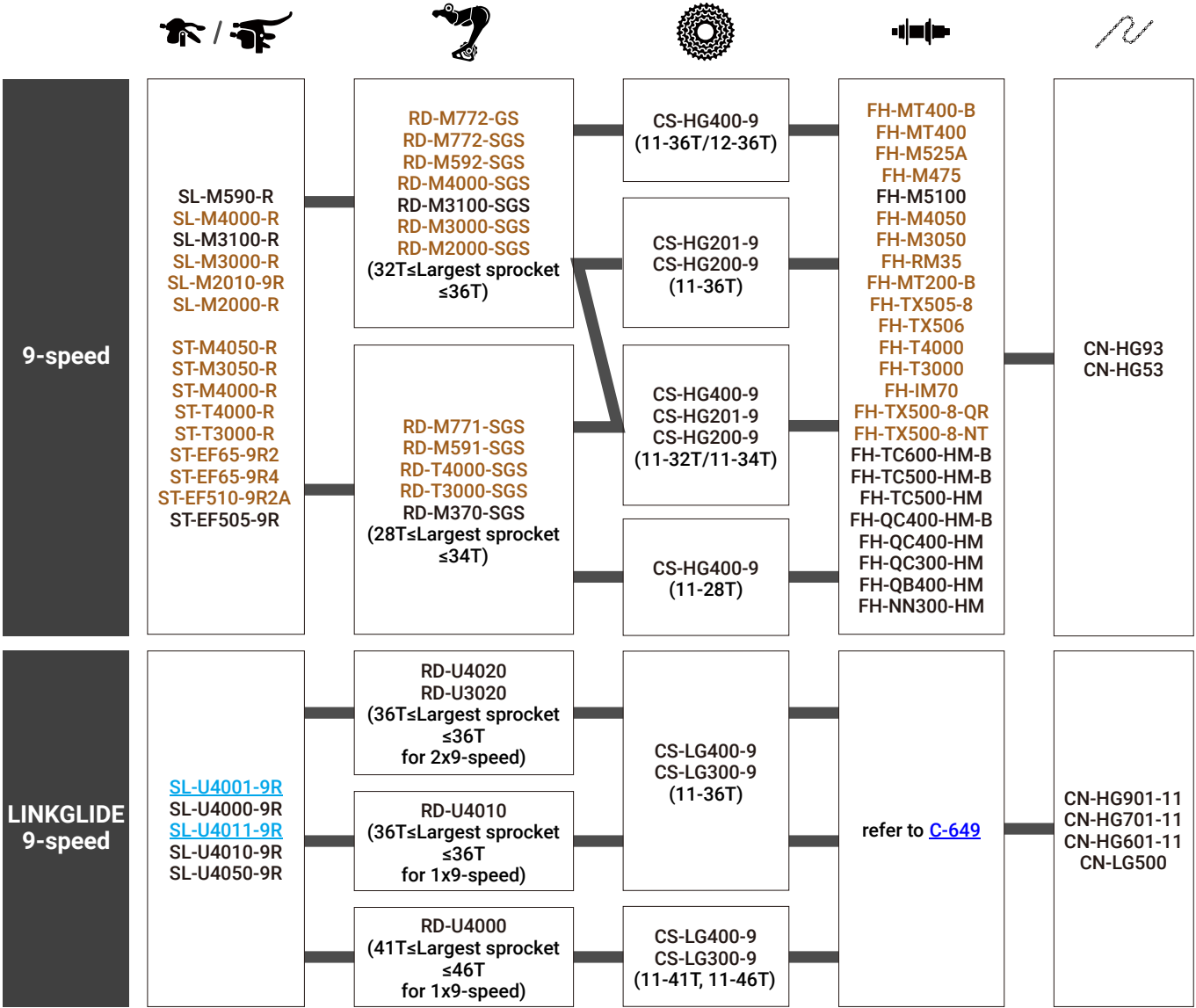




*1 Mode converter
*2 Compatible with ROAD cassette
*3 For E-BIKE or Q'AUTO (FH-U6060) bike

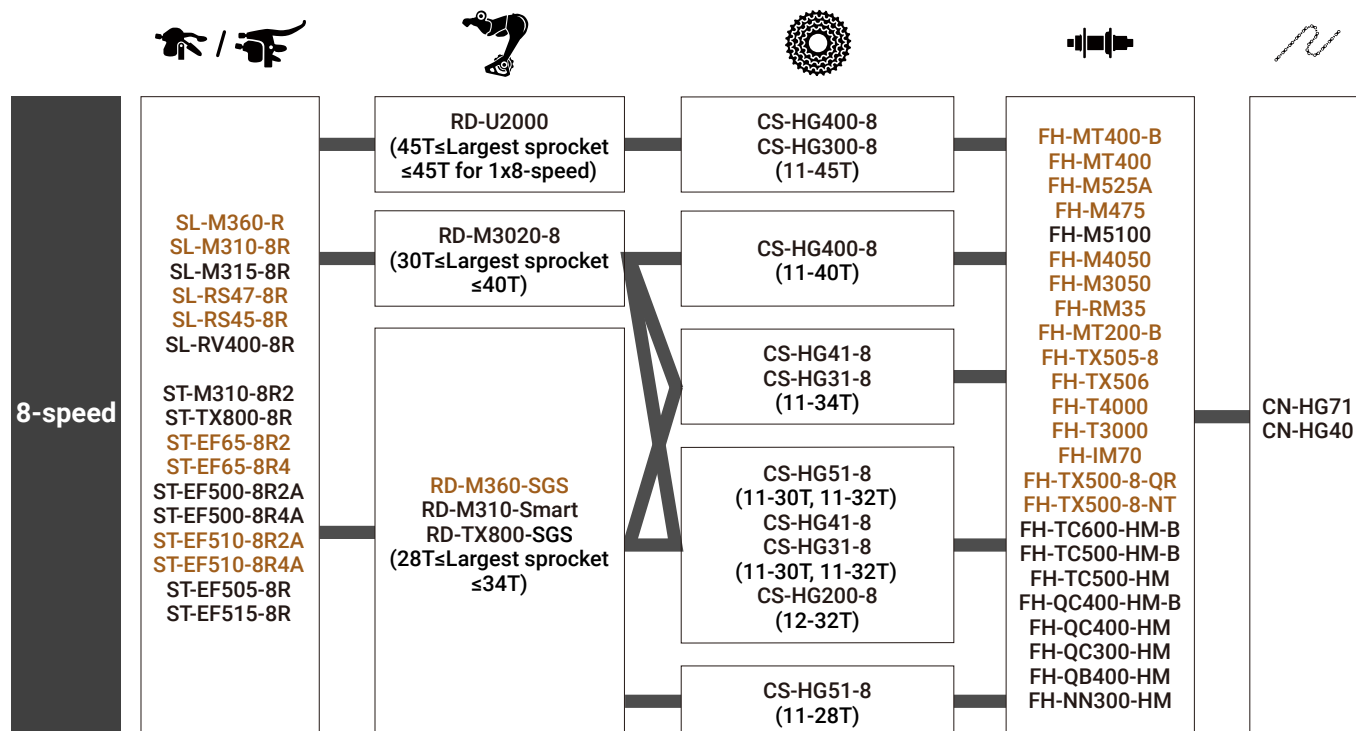
9-speed rear drivetrain [MTB, LIFESTYLE] C-437

5. Compatibility



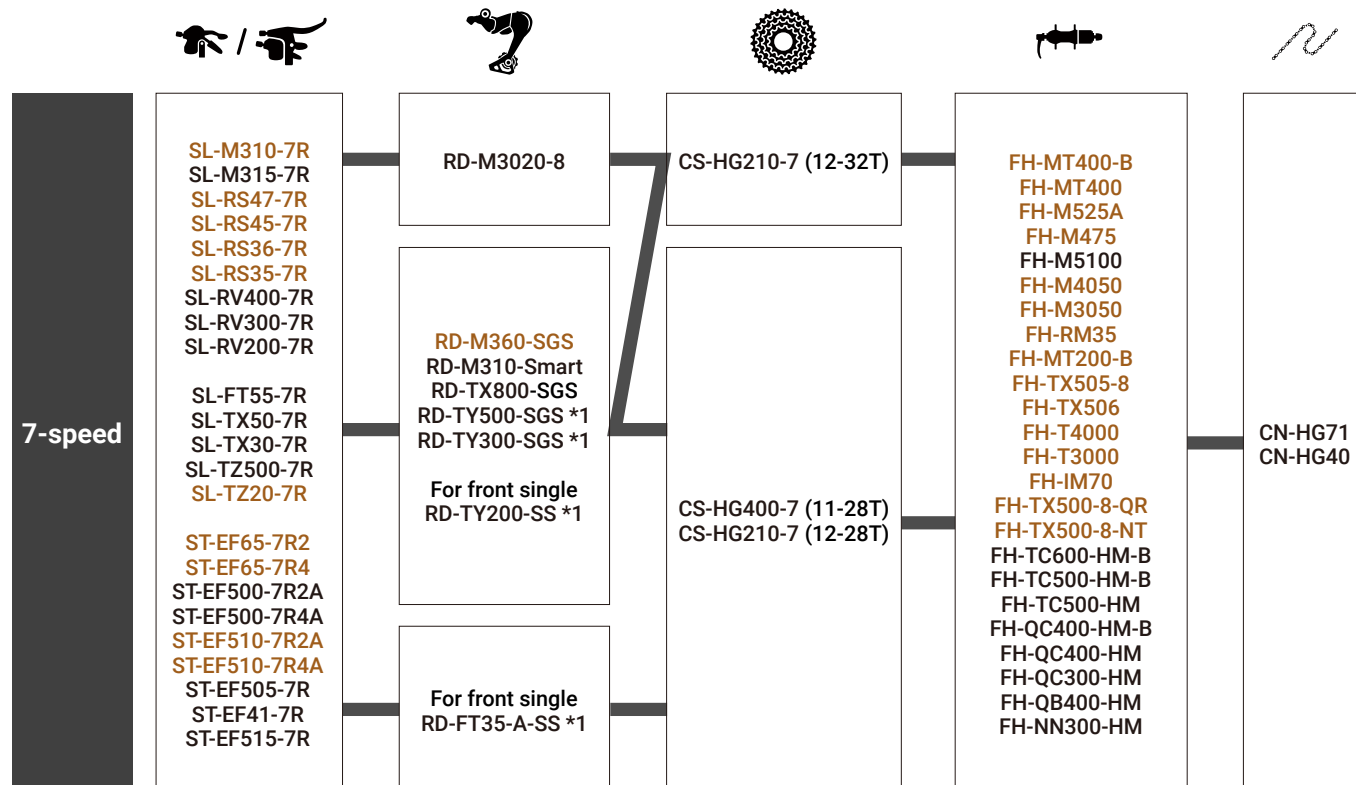
8-speed rear drivetrain [MTB] C-438

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



7-speed rear drivetrain [MTB] C-439

Cassette - HG spline M FREEHUB spec.



*1 Direct attachment type only

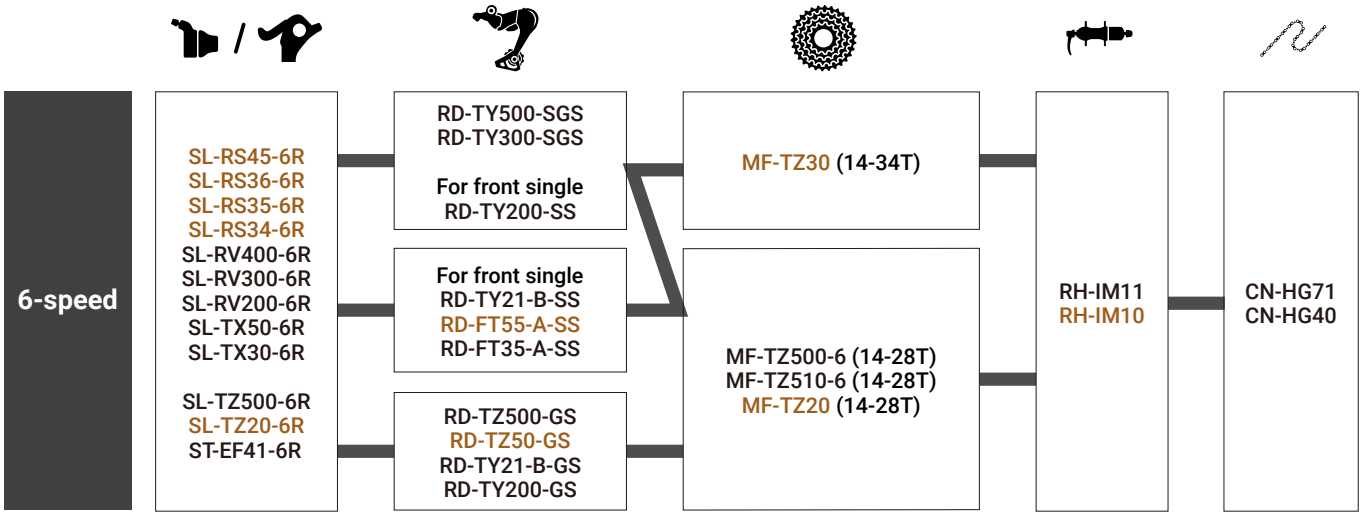
5. Compatibility



5. Compatibility



6-speed rear drivetrain [MTB] C-546

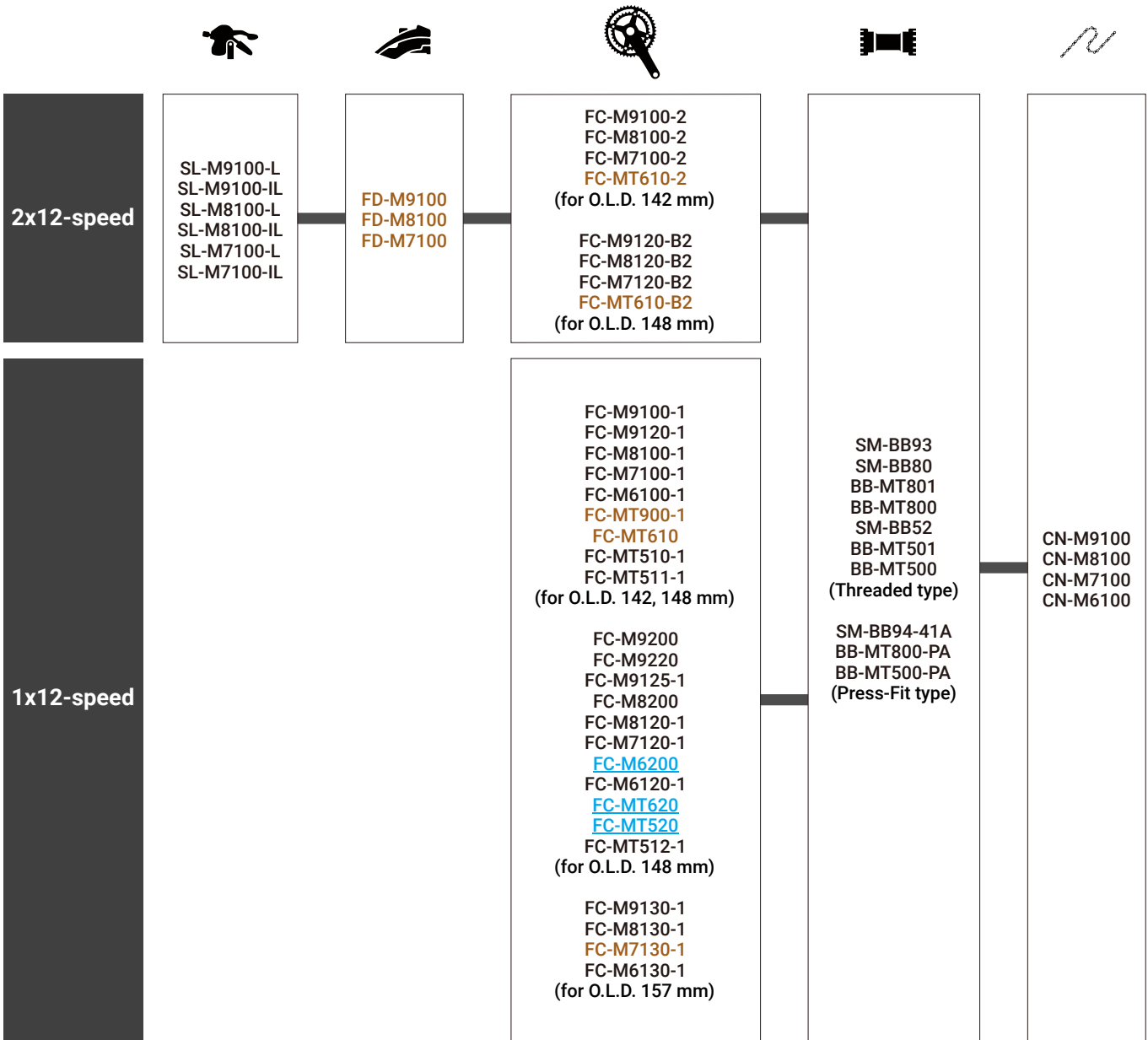


Front drivetrain compatibility [MTB, Trekking, LIFESTYLE]

C-440

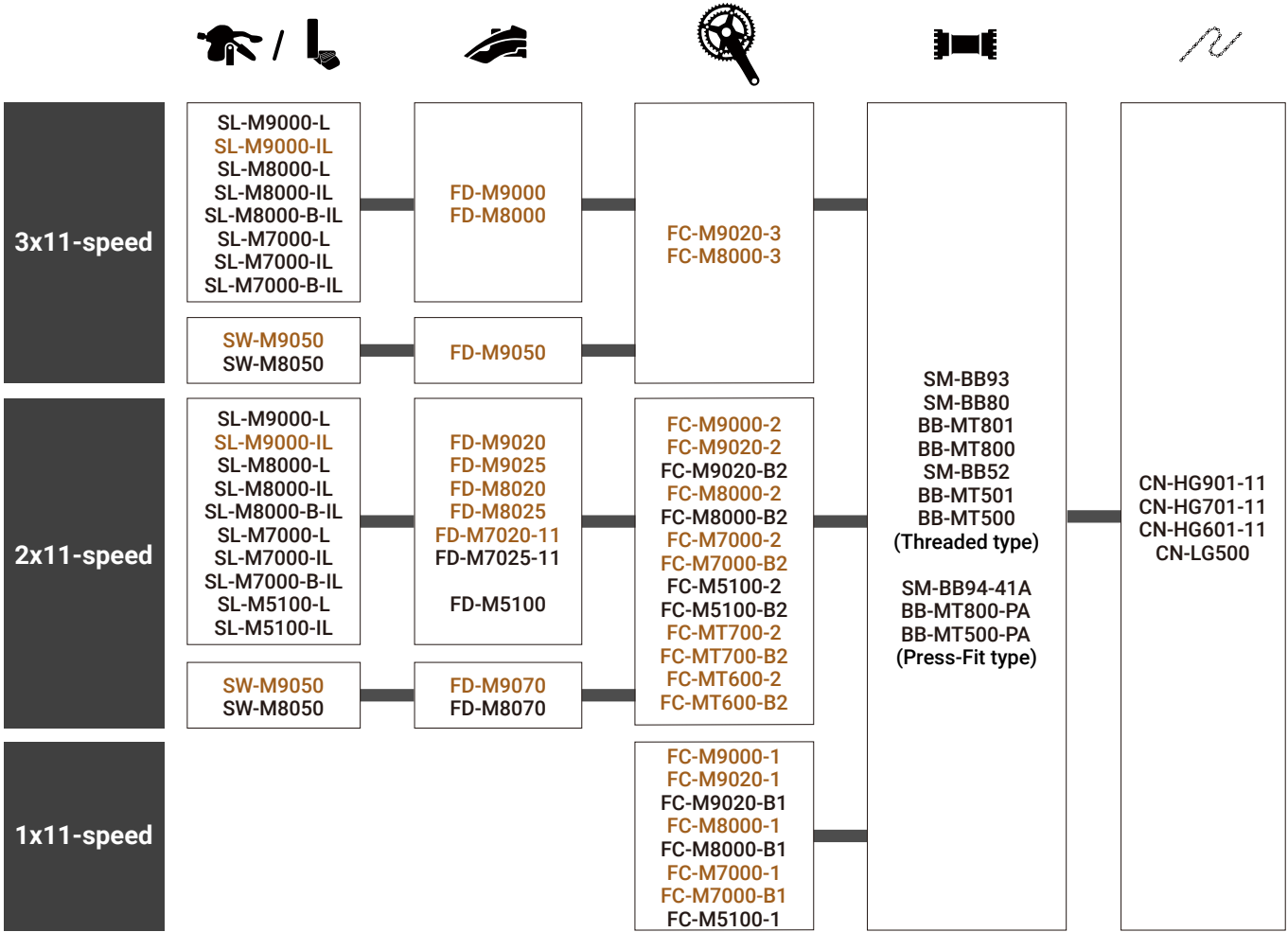
12-speed front drivetrain [MTB]

C-559



11-speed front drivetrain [MTB, LIFESTYLE]

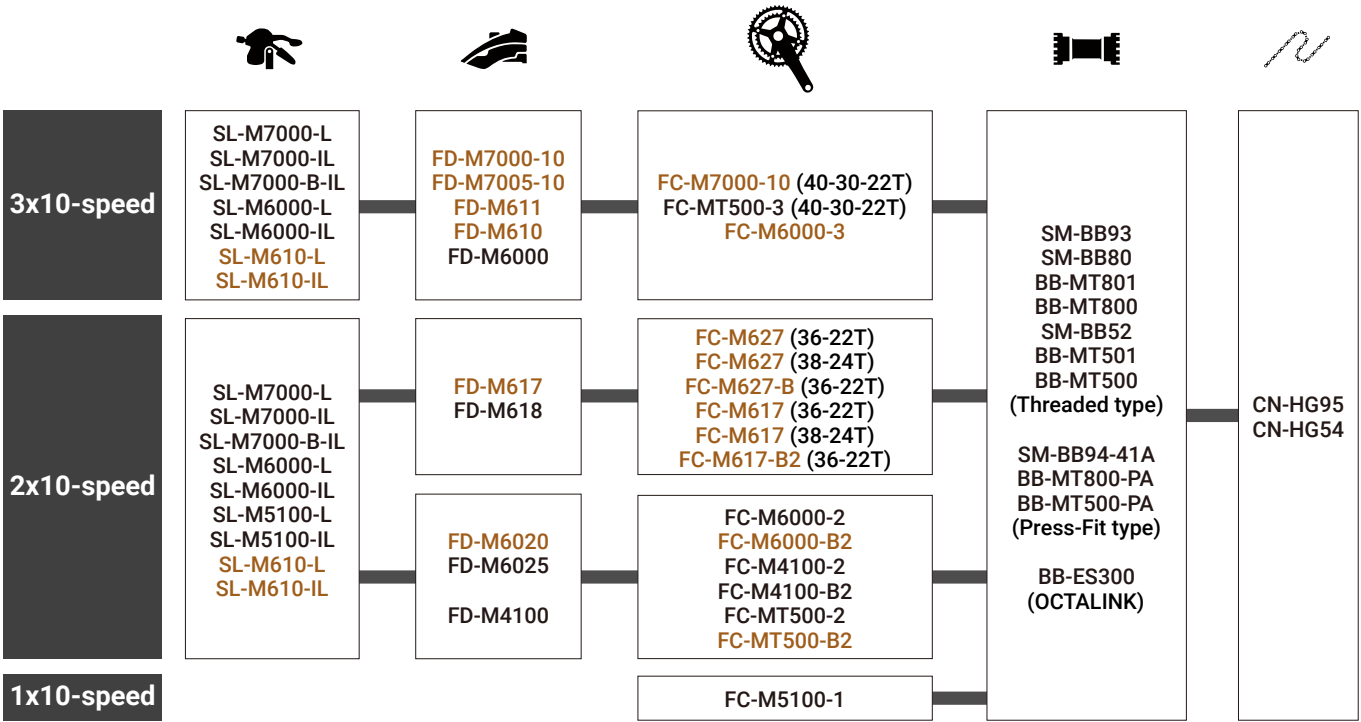
C-441

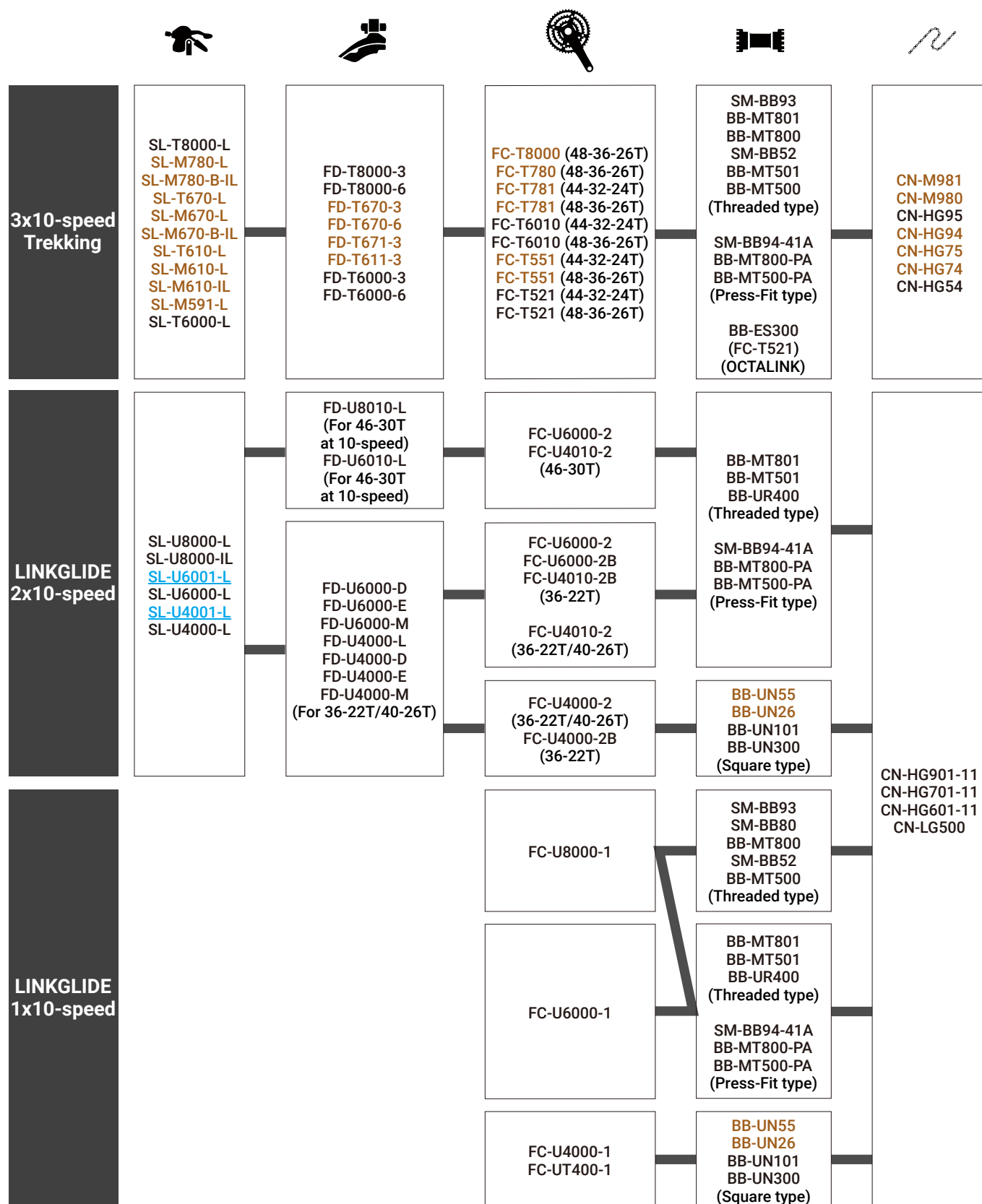




10-speed front drivetrain [MTB, Trekking, LIFESTYLE]

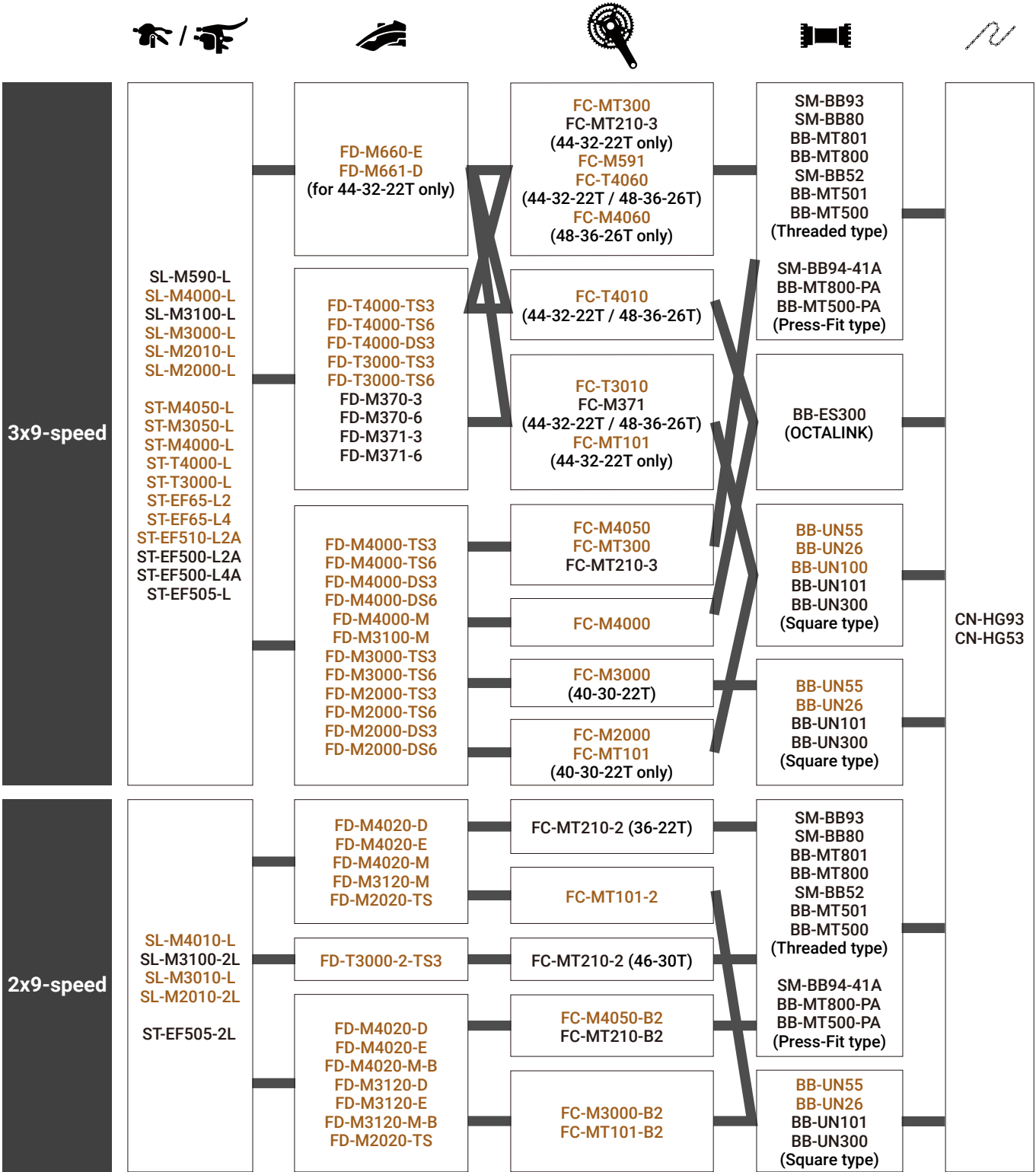
C-442

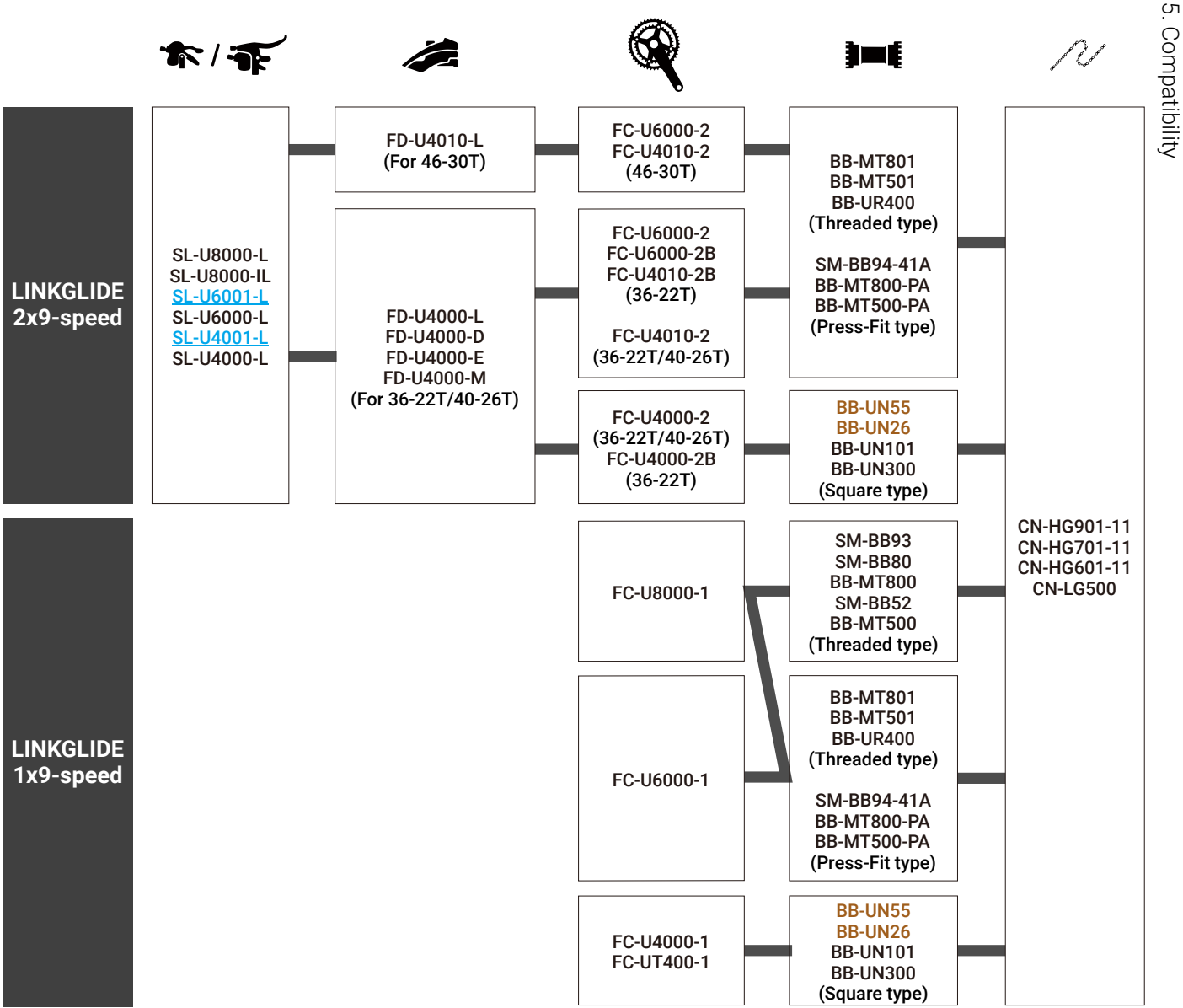




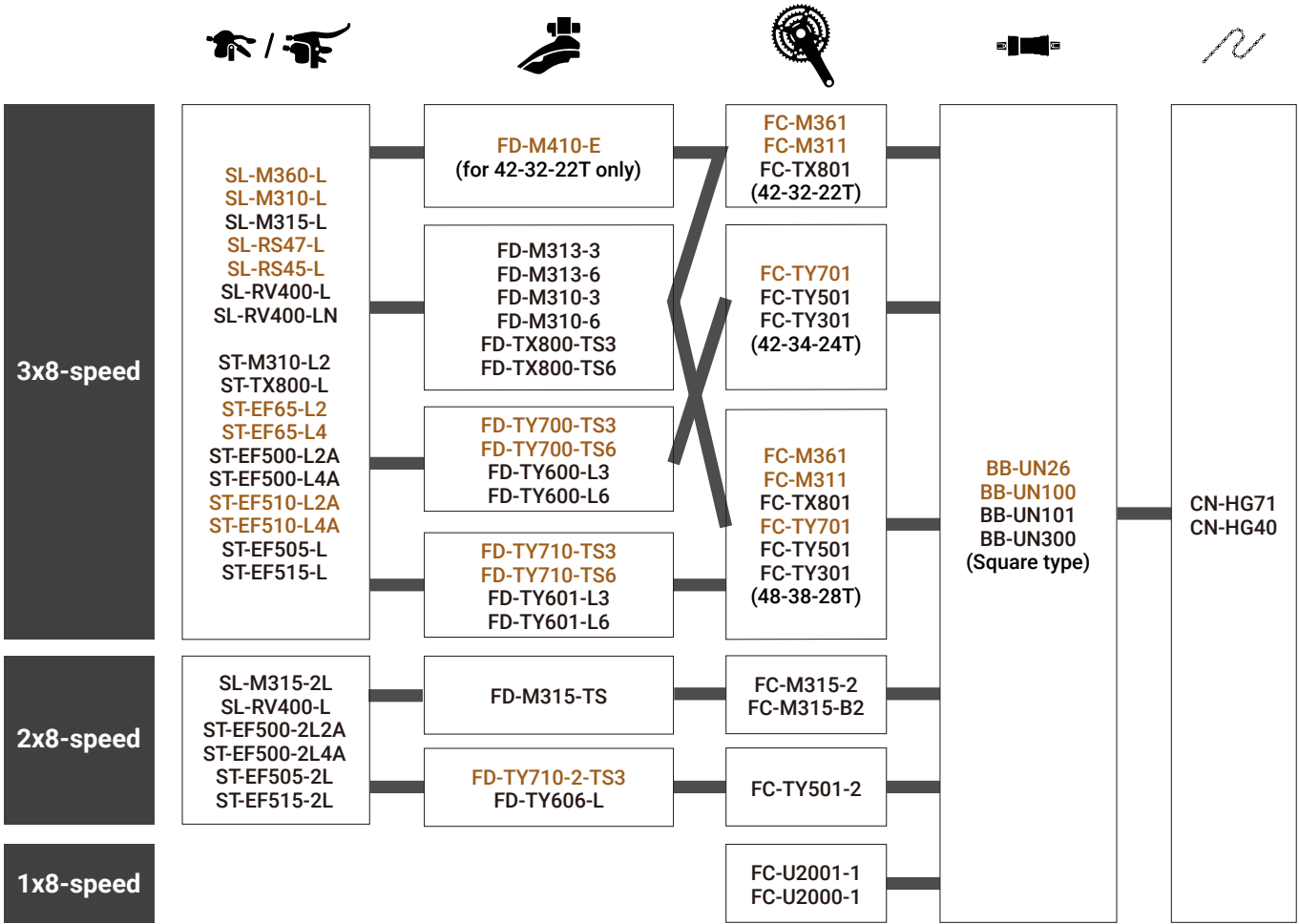
9-speed front drivetrain [MTB, LIFESTYLE]

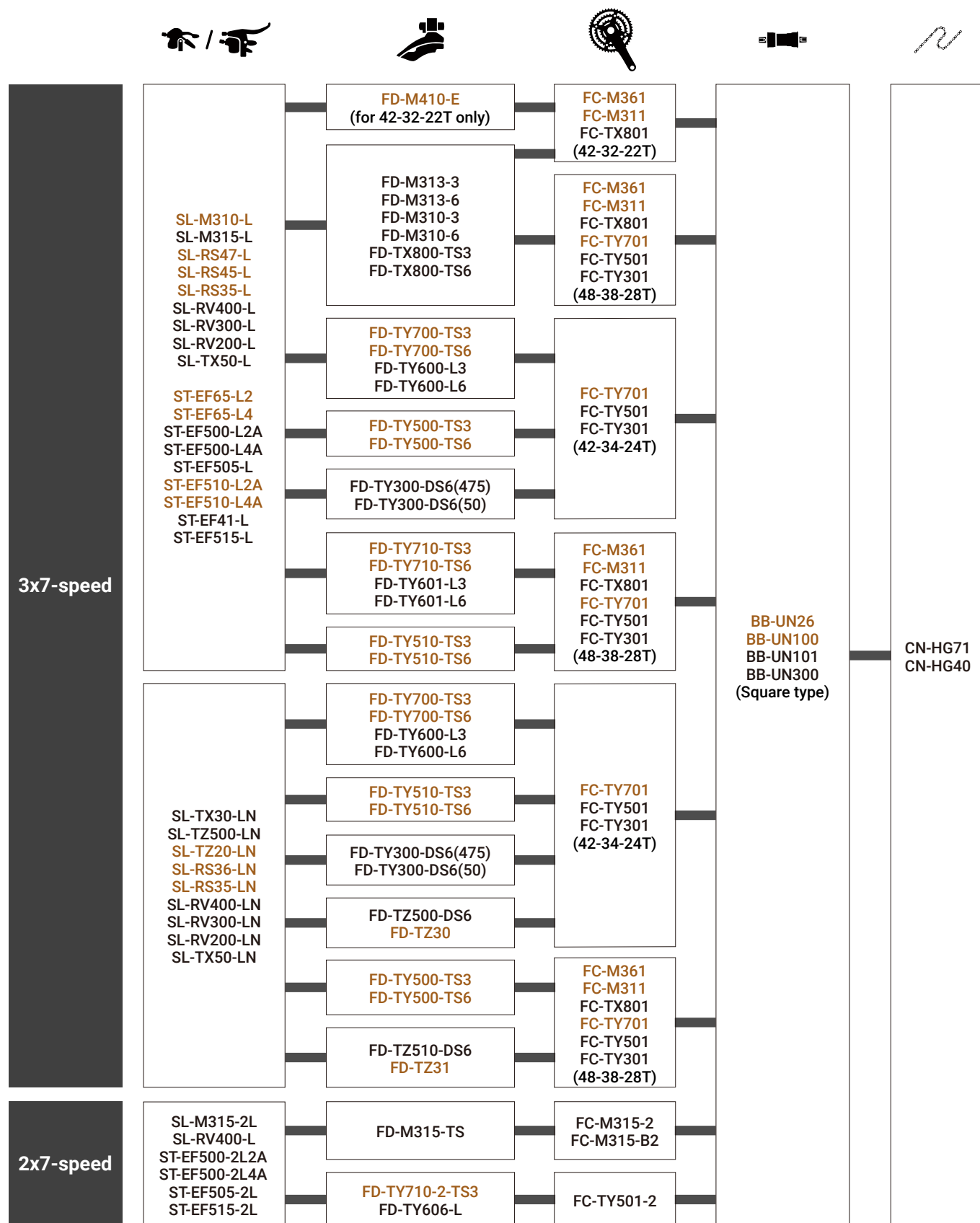
C-445

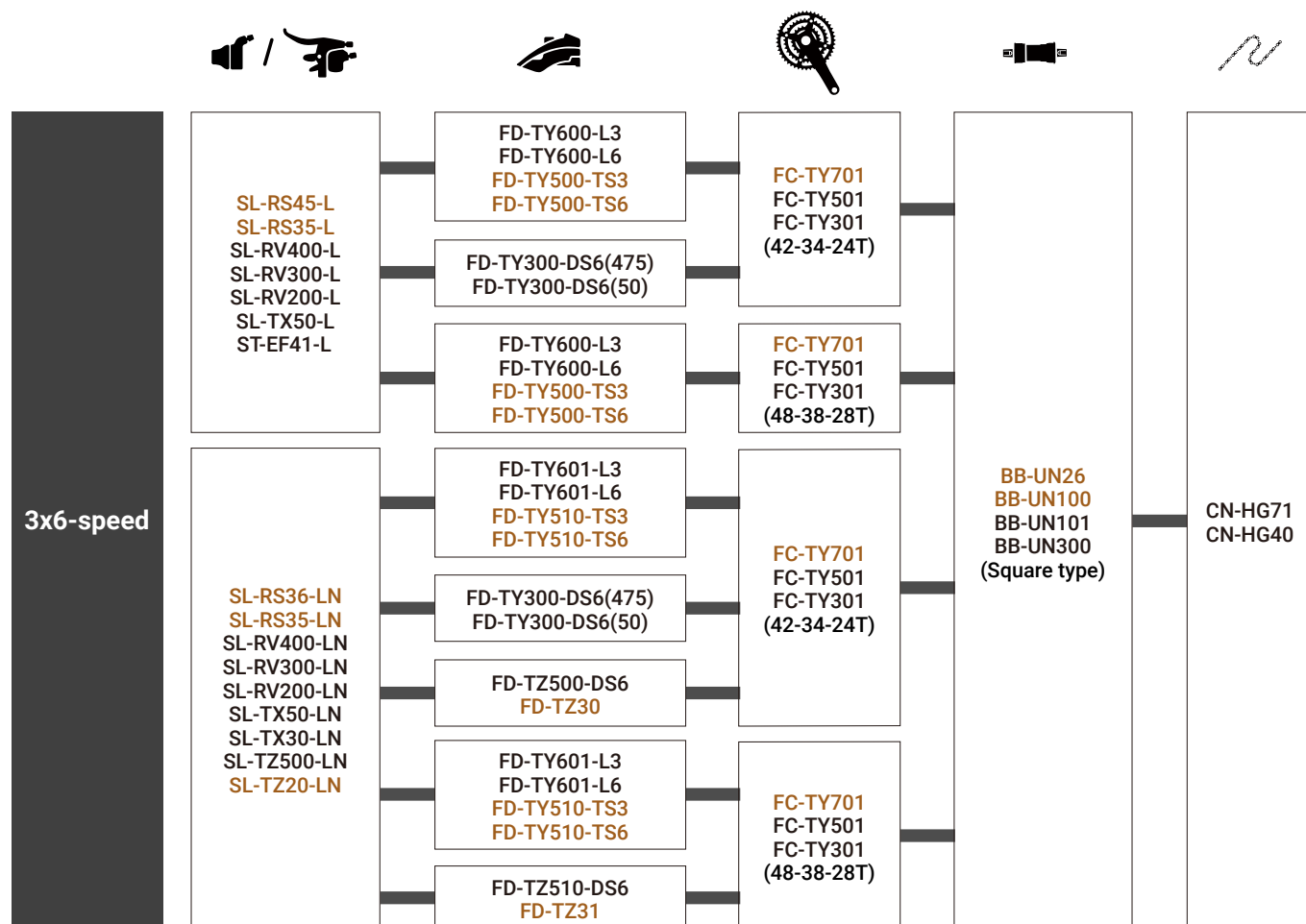




8,7,6-speed front drivetrain [MTB, LIFESTYLE] C-446







Front derailleur and crankset

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.

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

Each front derailleurs and the number of teeth of corresponding cranksets 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-DS6(475)	47.5		-
	FD-TY300-DS6(50)	-		50.0
	FD-TZ510-DS6 FD-TZ500-DS6 FD-TZ31 FD-TZ30	47.5		-
	FD-TY600-L3 FD-TY600-L6	-	47.5 50	47.5 50
	FD-TY601-L3 FD-TY601-L6	-	47.5 50	47.5 50

Crankset, bottom bracket and chain line [MTB, LIFESTYLE]

C-449

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

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

11, 10, 9-speed

Speed	Series	Crankset				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	51.8 mm	52 mm
			OCTALINK	Square	Chain case									
11, 10, 9	CUES	FC-U4000-1 (40T/42T)	–	✓	✓*1	BB-UN300(-K) BB-UN101(-K)	–	LL123	–	–	–	–	–	–
		FC-U4000-1 (30T/32T)	–	✓	–	BB-UN300 BB-UN101	–	–	–	–	–	–	LL123	–
		FC-U4000-2	–	✓	–	BB-UN300 BB-UN101	–	–	–	–	LL123	–	–	–
		FC-U4000-2B	–	✓	–	BB-UN300 BB-UN101	–	–	–	–	–	LL123	–	–
	SHIMANO	FC-UT400-1	–	✓	–	BB-UN300 BB-UN101	–	–	–	–	–	–	LL123	LL123
9	SHIMANO ALIVIO	FC-M4000	✓	–	–	BB-ES300	–	118	–	–	–	–	–	–
		FC-T4010	✓	–	✓*1	BB-ES300(-K)	–	126	–	–	–	–	–	–
		FC-M430-8	✓	–	–	BB-ES300(-E)	–	118	–	–	–	–	–	–
		FC-M430	–	✓	–	BB-UN26(-E) BB-UN300(-E)	–	LL113	–	–	–	–	–	–
	ACERA	FC-M3000 FC-M3000-B2	–	✓	–	BB-UN26 BB-UN300	–	LL113	–	–	–	–	–	–
		FC-T3010	–	✓	✓*1	BB-UN26(-K) BB-UN300(-K)	–	LL123	–	–	–	–	–	–
	ALTUS	FC-M2000	–	✓	–	BB-UN26 BB-UN300 BB-UN100 BB-UN101	–	LL123	–	–	–	–	–	–
	SHIMANO	FC-MT100 FC-MT101	–	✓	–	BB-UN26 BB-UN300 BB-UN100 BB-UN101	–	LL123	–	–	–	–	–	–
		FC-M371	–	✓	✓*1	BB-UN26(-K) BB-UN300(-K)	–	LL123	–	–	–	–	–	–

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

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.

8, 7, 6-speed

Speed	Series	Crankset				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	51.8 mm	52 mm
			OCTALINK	Square	Chain case									
8, 7	ACERA ALTUS	FC-M361 FC-M311	—	✓	✓*1	BB-UN26(-K) BB-UN300(-K)	—	LL123	—	—	—	—	—	
	TOURNEY	FC-TX801	—	✓	✓*1	BB-UN26(-K) BB-UN300(-K) BB-UN100(-K) BB-UN101(-K)	—	LL123	—	—	—	—	—	
	SHIMANO	FC-M315-2	—	✓	—	BB-UN26 BB-UN300 BB-UN100 BB-UN101	—	—	—	—	LL123	—	—	
		FC-M315-B2	—	✓	—	BB-UN26 BB-UN300 BB-UN100 BB-UN101	—	—	—	—	—	LL123	—	
		FC-TY501-2	—	✓	—	BB-UN26 BB-UN300 BB-UN100 BB-UN101	—	—	—	—	LL123	—	—	
8, 7, 6	SHIMANO ESSA	FC-U2001-1 (40T) FC-U2000-1 (40T)	—	✓	✓*1	BB-UN300(-K) BB-UN101(-K)	—	LL123	—	—	—	—	—	
		FC-U2000-1 (32T)	—	✓	—	BB-UN300 BB-UN101	—	—	—	—	—	—	LL123	
	SHIMANO	FC-TY701 FC-TY501 FC-TY301	—	✓	✓	BB-UN26(-K) BB-UN300(-K) BB-UN100(-K) BB-UN101(-K)	D-NL (122.5)	D-EL	—	D-NL-K (122.5)	—	—	—	

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

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.

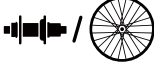
Drivetrain for ROAD, Gravel, LIFESTYLE components

C-453

9, 10, 11-speed rear drivetrain compatibility

C-806

For more detail and 7/8-speed compatibility, please refer to [C-454](#).

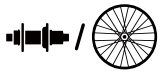
					 *1
ROAD, Gravel 9-speed	9-speed	9-speed	9-speed	HG 9-speed	HG spline L HG spline M
ROAD, Gravel 10-speed	10-speed	10-speed	10-speed	Refer to C-454	
ROAD, Gravel 11-speed *2	11-speed	11-speed	11-speed	LINKGLIDE, HG 11-speed	
LINKGLIDE 9-speed	LINKGLIDE 9-speed	LINKGLIDE 9-speed	LINKGLIDE 9-speed	LINKGLIDE, HG 11-speed	Refer to C-649
LINKGLIDE 10-speed	LINKGLIDE 10-speed	LINKGLIDE 10-speed	LINKGLIDE 10-speed		
LINKGLIDE 11-speed	LINKGLIDE 11-speed	LINKGLIDE 11-speed	LINKGLIDE 11-speed		

*1 Please refer to [C-731](#) for the compatibility with wheel and freehub in detail.
*2 TIAGRA R4000 series and RD-U6040 are exceptions. Please refer to [C-454](#).

Rear drivetrain compatibility

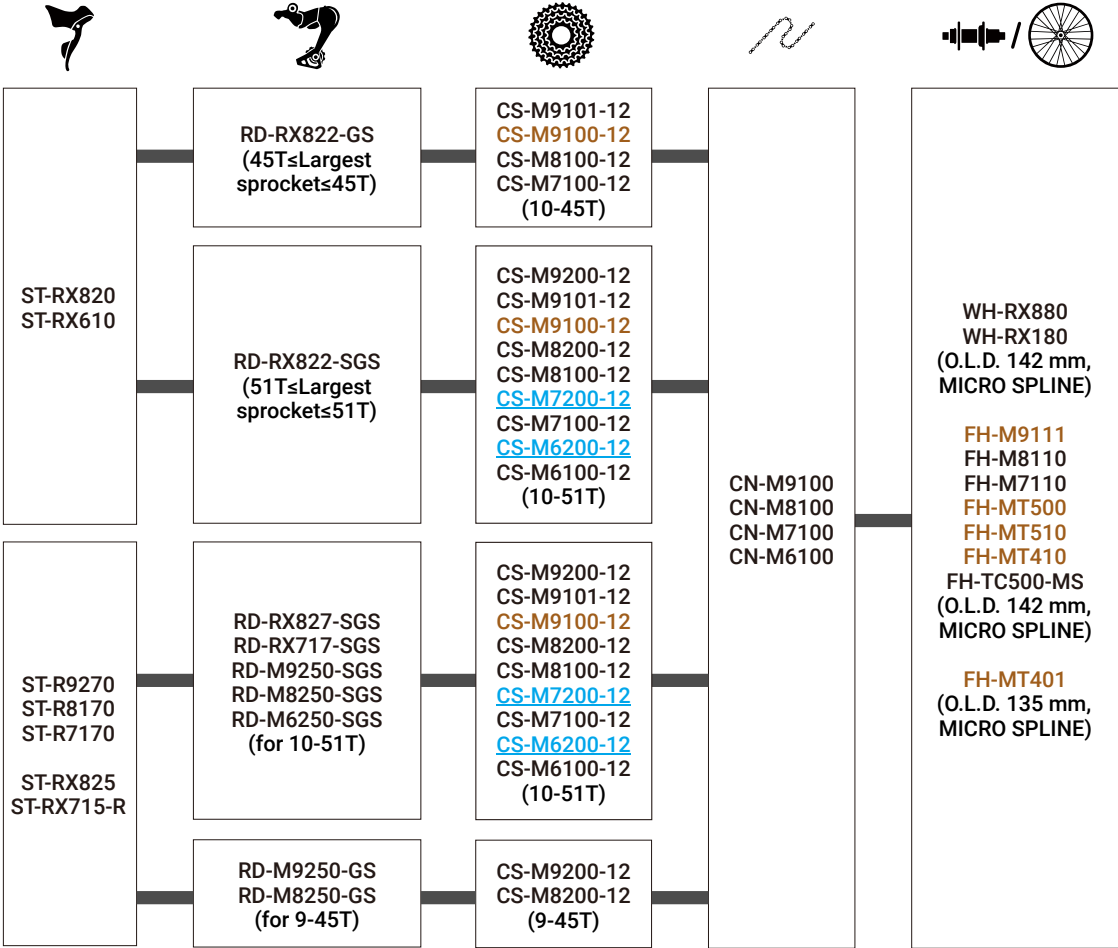
C-454

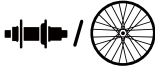
5. Compatibility

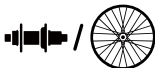
					
2x12-speed SHIMANO 105 R7100 GRX RX820 RX610	ST-R7120 ST-RX820 ST-RX610	RD-R7100 (34T≤Largest sprockets≤36T) RD-RX820 (34T≤Largest sprockets≤36T)	CS-R8101-12 CS-R7101-12 CS-HG710-12		WH-R9200 (O.L.D. 130 mm, HG spline L2) WH-R9370 WH-R9270 WH-RX880 (O.L.D. 142 mm, HG spline L2) WH-R9170 WH-R8170 WH-RS770 WH-RS710 WH-RS370 WH-RS171 (700c) WH-RS171 (650b) WH-RX870 WH-RX570 WH-RX180 WH-RX31 (E-THRU) FH-RS770 FH-R7070 FH-RS470 FH-TC500-HL (O.L.D. 142 mm, HG spline L) WH-R9100 WH-RS700 WH-RS500 WH-RS300 WH-RS100 FH-9000 FH-6800 FH-5800 FH-R7000 FH-RS400 (O.L.D. 130 mm, HG spline L) WH-RX830 WH-RX31 (QR) WH-RX010 WH-U5000 FH-RS505 (O.L.D. 135 mm, HG spline L)
2x12-speed DURA-ACE R9250 ULTEGRA R8150 SHIMANO 105 R7150 GRX RX825	ST-R9250 ST-R9270 ST-R9160 ST-R9180 ST-R8150 ST-R8170 ST-R8060 ST-R7170 ST-RX825	RD-R9250 RD-R8150 (30T≤Largest sprockets≤34T) RD-R7150 (34T≤Largest sprockets≤36T) RD-RX825 (34T≤Largest sprockets≤36T)	CS-R9200-12 CS-R8100-12 CS-R7100-12 CS-R8101-12 CS-R7101-12 CS-HG710-12	CN-M9100 CN-M8100 CN-M7100 CN-M6100	

1x12-speed

GRX
RX825
RX820
RX715
RX610

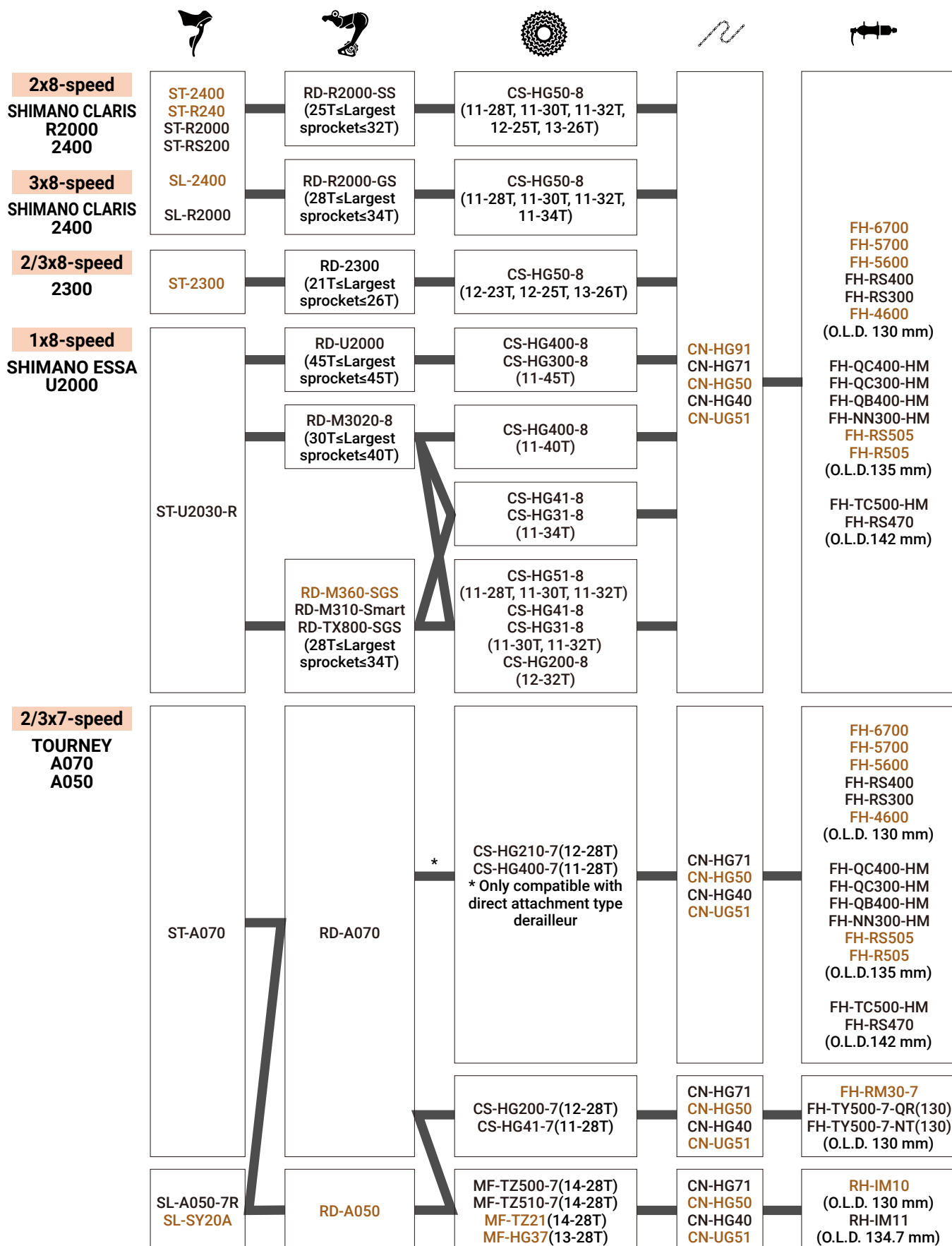


					
2x11-speed					
DURA-ACE R9100 9000		RD-R9100-SS RD-R8000-SS (25T≤Largest sprockets≤30T)			
ULTEGRA R8000 6800	ST-R9100 ST-R9120 ST-9001 ST-9000 SL-BSR1 ST-R8000 ST-R8020 ST-R8025 ST-6800 ST-R7000 ST-R7020 ST-R7025 ST-5800	RD-R8000-GS RD-RX800-GS (28T≤Largest sprockets≤34T) RD-9000 RD-6800-SS RD-5800-SS (23T≤Largest sprockets≤28T) RD-R7000-SS (25T≤Largest sprockets≤30T) RD-R7000-GS (28T≤Largest sprockets≤34T) RD-6800-GS RD-5800-GS (28T≤Largest sprockets≤32T) RD-U5000-SS (28T≤Largest sprockets≤32T) RD-RX810 (30T≤Largest sprockets≤34T) RD-RX800 (28T≤Largest sprockets≤34T)			
SHIMANO 105 R7000 5800					
TIAGRA R4000					
GRX RX810 RX600					FH-9000 WH-R9100 WH-RS700 WH-RS500 WH-RS300 WH-RS100 FH-6800 FH-5800 FH-R7000 FH-RS400 (O.L.D. 130 mm)
CUES U6000	SL-RS700 ST-RS685 ST-RS505				
METREA U5000	ST-U5060 SL-U5000 ST-RX810 ST-RX600		CS-R9100 CS-6800 CS-5800 CS-R8000 CS-HG800-11 CS-R7000 CS-HG700-11	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-LG500	FH-RS505 WH-RX830 WH-RX31 (QR) WH-U5000 WH-RX010 (O.L.D. 135 mm) WH-R9170 WH-R8170 WH-RS710 WH-RS770 WH-RS370 WH-RS171 (700c) WH-RS171 (650b) WH-RX870 WH-RX570 WH-RX180 WH-RX31 (E-THRU) FH-RS770 FH-R7070 FH-RS470 FH-TC500-HL (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≤Largest sprockets≤30T) RD-9070-SS RD-6870-SS (23T≤Largest sprockets≤28T) RD-R8050-GS RD-RX805 (28T≤Largest sprockets≤34T) RD-6870-GS (28T≤Largest sprockets≤32T) RD-RX815 (30T≤Largest sprockets≤34T)			
	ST-R4020 ST-U6030	RD-R4000 RD-U6040 (36T≤Largest sprockets≤36T)	CS-RS400-11		

					
1x11-speed METREA U5000	ST-U5060 SL-U5000	RD-U5000-SS	CS-R9100 CS-6800 CS-5800 CS-R8000 CS-HG800-11 CS-R7000 CS-HG700-11		
GRX RX810 RX600	ST-R9100 ST-R9120 ST-9001 ST-9000 SL-BSR1 ST-R8000 ST-R8020 ST-R8025 ST-6800 ST-R7000 ST-R7020 ST-R7025 ST-5800 SL-RS700 ST-RS685 ST-RS505 ST-U5060 SL-U5000 ST-RX810 ST-RX600	RD-RX812 (40T≤Largest sprockets≤42T)		CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-LG500	FH-9000 WH-R9100 WH-RS700 WH-RS500 WH-RS300 WH-RS100 FH-6800 FH-5800 FH-R7000 FH-RS400 (O.L.D. 130 mm) FH-RS505 WH-RX830 WH-RX31 (QR) WH-U5000 WH-RX010 (O.L.D. 135 mm) WH-R9170 WH-R8170 WH-RS710 WH-RS770 WH-RS370 WH-RS171 (700c) WH-RS171 (650b) WH-RX870 WH-RX570 WH-RX180 WH-RX31 (E-THRU) FH-RS770 FH-R7070 FH-RS470 FH-TC500-HL (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-RX817 (40T≤Largest sprockets≤42T)	CS-M8000-11 CS-M7000-11 CS-M5100-11		
1x11-speed LINKGLIDE CUES U6000	ST-U6030	RD-M8130 RD-U8000 (50T≤Largest sprockets≤50T for 1x11-speed) RD-U6000 (48T≤Largest sprockets≤50T)	CS-LG700-11 CS-LG600-11 CS-LG400-11 (11-50T)	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-LG500	refer to C-649

					
2x10-speed ULTEGRA 6700 SHIMANO 105 5700 TIAGRA 4700 4600 GRX RX400	ST-6700 ST-5700 ST-4600 SL-R780 SL-4600	RD-6700-A-GS (23T≤Largest sprockets≤30T)	CS-6700 CS-5700 CS-HG500-10	CN-6701 CN-5701 CN-4601	FH-6700 FH-5700 FH-5600 FH-RS400 FH-RS300 FH-4600 (O.L.D. 130 mm) FH-RS505 FH-R505 (O.L.D.135 mm) FH-RS770 FH-RS470 (O.L.D.142 mm)
		RD-5701-SS RD-4601-SS (25T≤Largest sprockets≤30T)			
		RD-5701-GS RD-4601-GS (27T≤Largest sprockets≤32T)	CS-6700 CS-5700 CS-HG500-10 CS-M771-10 CS-HG81-10 CS-HG62-10		
		RD-R350-10-SS (30T≤Largest sprockets≤34T)			
		ST-4700 ST-4720 ST-4725 ST-RS405 ST-RX400 SL-4700	RD-4700-SS (25T≤Largest sprockets≤28T) RD-4700-GS (28T≤Largest sprockets≤34T) RD-RX400 (32T≤Largest sprockets≤36T)	CS-6700 CS-5700 CS-HG500-10 CS-M980 CS-M771-10 CS-HG81-10 CS-HG62-10 CS-HG50-10	
3x10-speed ULTEGRA 6700 SHIMANO 105 5700 TIAGRA 4700 4600	ST-6700 ST-5700 ST-4600 SL-R780 SL-4600	RD-6700-A-SS (23T≤Largest sprockets≤30T) RD-5701-GS RD-4601-GS (25T≤Largest sprockets≤30T)	CS-6700 CS-5700 CS-HG500-10 CS-M771-10 CS-HG81-10 CS-HG62-10	CN-7801 CN-6600 CN-5600	FH-6700 FH-5700 FH-5600 FH-RS400 FH-RS300 FH-4600 (O.L.D. 130 mm)
	ST-4700 SL-4700	RD-4700-GS (25T≤Largest sprockets≤32T)	CS-6700 CS-5700 CS-HG500-10 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	FH-RS505 FH-R505 (O.L.D.135 mm) FH-RS770 FH-RS470 (O.L.D.142 mm)
	ST-U6030 ST-U3030-10R	RD-U6020-10 (39T≤Largest sprockets≤39T)	CS-LG400-10 CS-LG300-10 (11-39T)		
2x10-speed LINKGLIDE CUES U6000 1x10-speed LINKGLIDE CUES U6000	ST-U6030 ST-U3030-10R	RD-U6000 (48T≤Largest sprockets≤50T)	CS-LG400-10 CS-LG300-10 (11-48T)	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-LG500	refer to C-649
		RD-M5130 (43T≤Largest sprockets≤43T)	CS-LG400-10 (11-43T)		
		RD-U4010 (39T≤Largest sprockets≤39T) for 1x10 usage	CS-LG400-10 CS-LG300-10 (11-39T)		

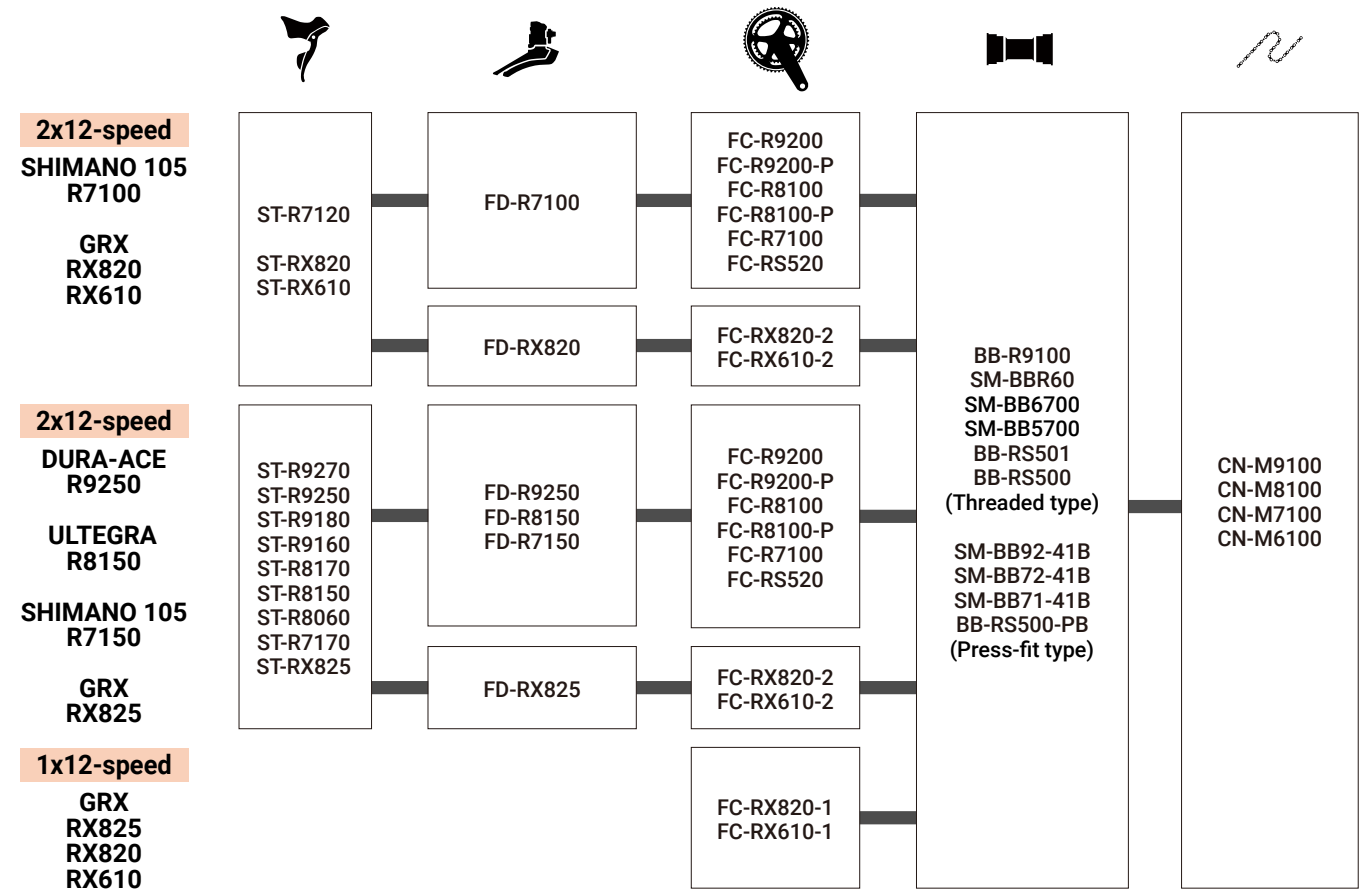
					
2x9-speed SORA R3000 3500	ST-R3000 ST-3500 SL-R3000 SL-3500	RD-R3000-SS (25T≤Largest sprockets≤32T) RD-R3000-GS (28T≤Largest sprockets≤34T)	CS-HG400-9 CS-HG50-9 CS-HG30-9 CS-HG20-9	CN-7701 CN-HG93 CN-HG73 CN-HG53	FH-6700 FH-5700 FH-5600 FH-RS400 FH-RS300 FH-4600 (O.L.D. 130 mm) FH-RS505 FH-R505 (O.L.D.135 mm)
3x9-speed SORA 3500	ST-R350	RD-R350-GS (25T≤Largest sprockets≤32T)	CS-HG400-9 CS-HG50-9 CS-HG30-9 CS-HG20-9	CN-7701 CN-HG93 CN-HG73 CN-HG53	FH-6700 FH-5700 FH-5600 FH-RS400 FH-RS300 FH-4600 (O.L.D. 130 mm) FH-RS505 FH-R505 (O.L.D.135 mm)
2x9-speed LINKGLIDE CUES U4000	ST-U4030-R ST-U3030-9R	RD-U4020 RD-U3020 (36T≤Largest sprockets≤36T)	CS-LG400-9 CS-LG300-9 (11-36T)		
1x9-speed LINKGLIDE CUES U4000	ST-U4030-R ST-U3030-9R	RD-U4000 (41T≤Largest sprockets≤46T) RD-U4010 (36T≤Largest sprockets≤36T) for 1x9 usage	CS-LG400-9 CS-LG300-9 (11-41T, 11-46T) CS-LG400-9 CS-LG300-9 (11-36T)	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-LG500	refer to C-649

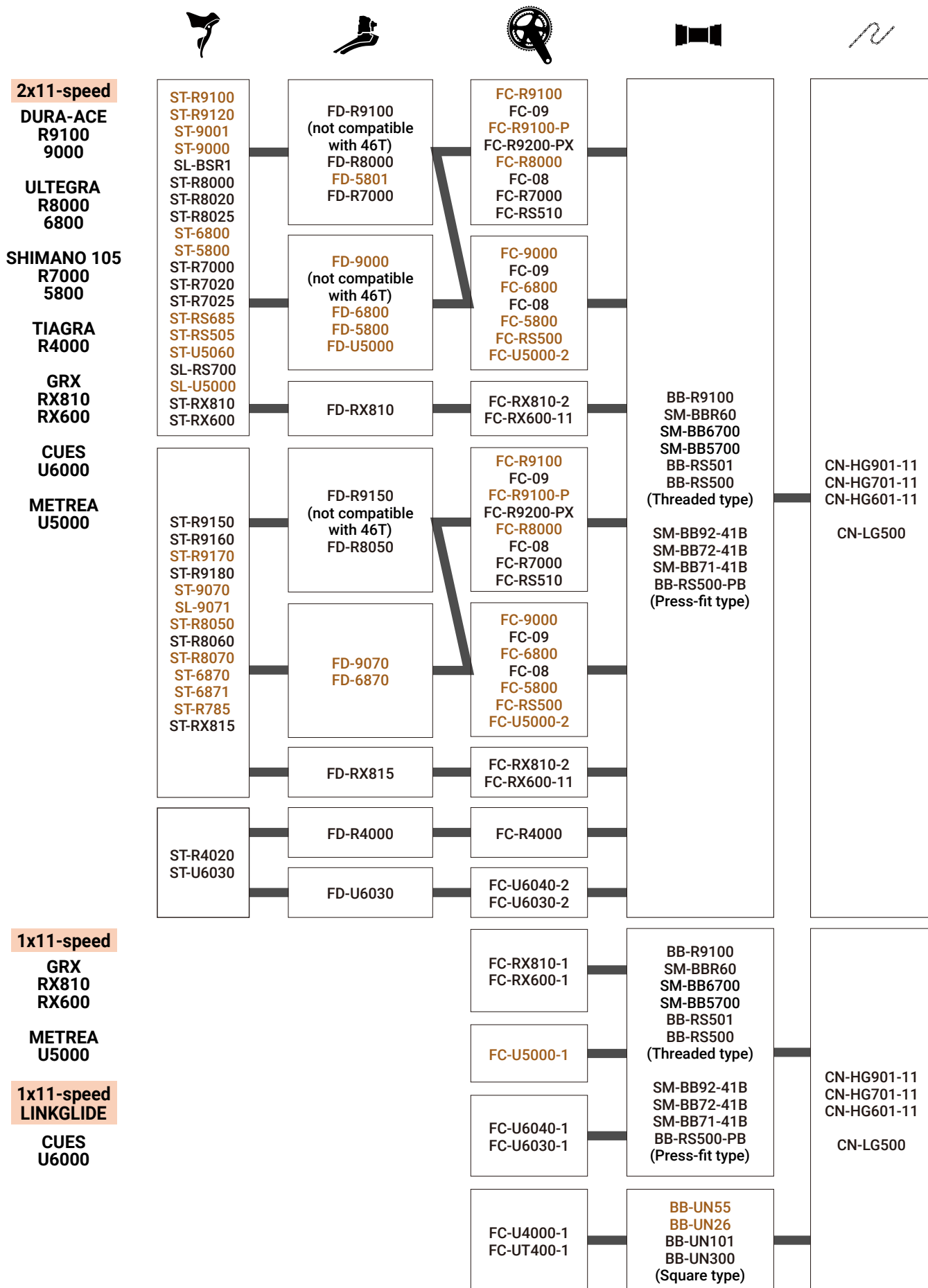


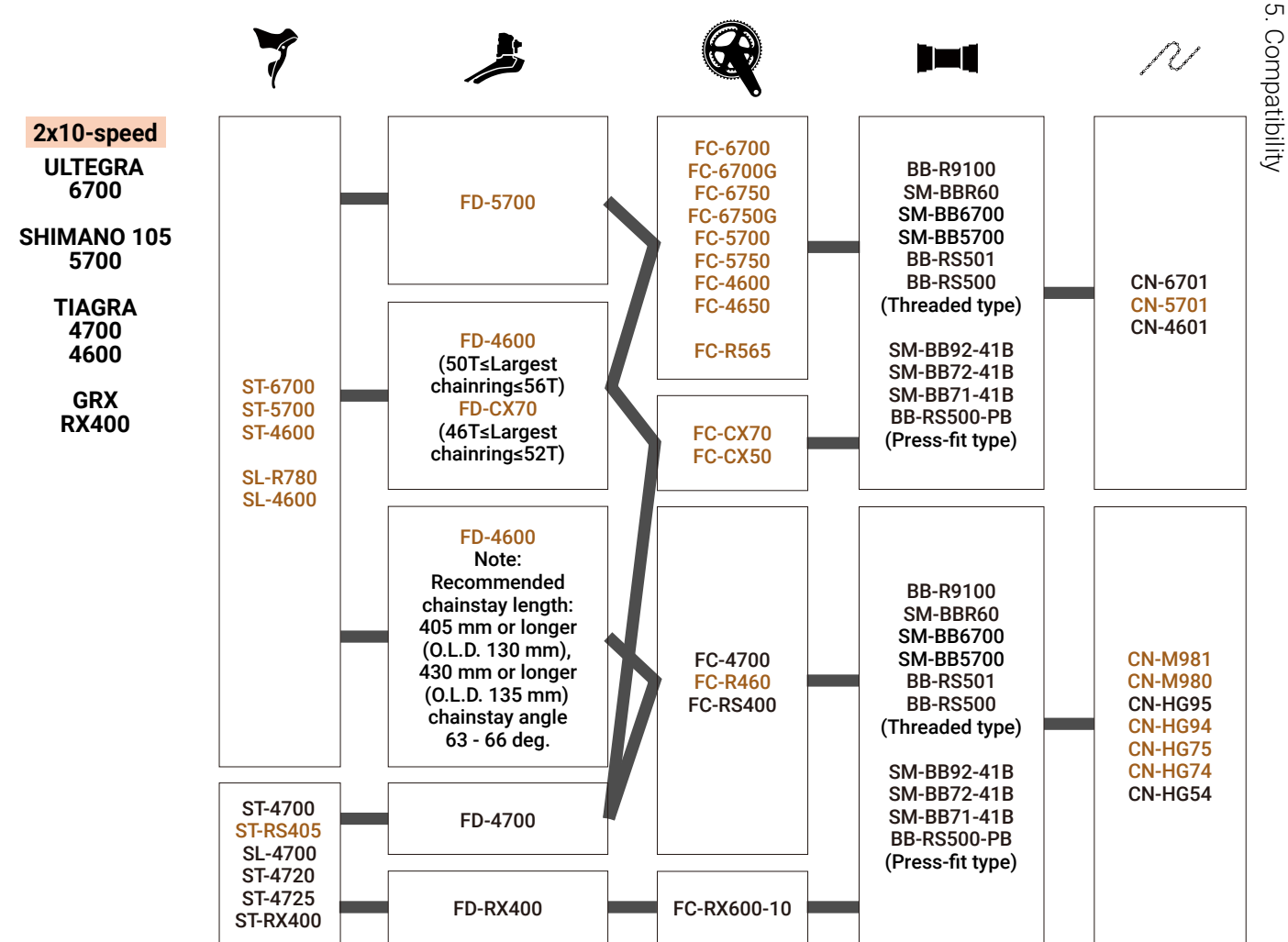
Front drivetrain compatibility

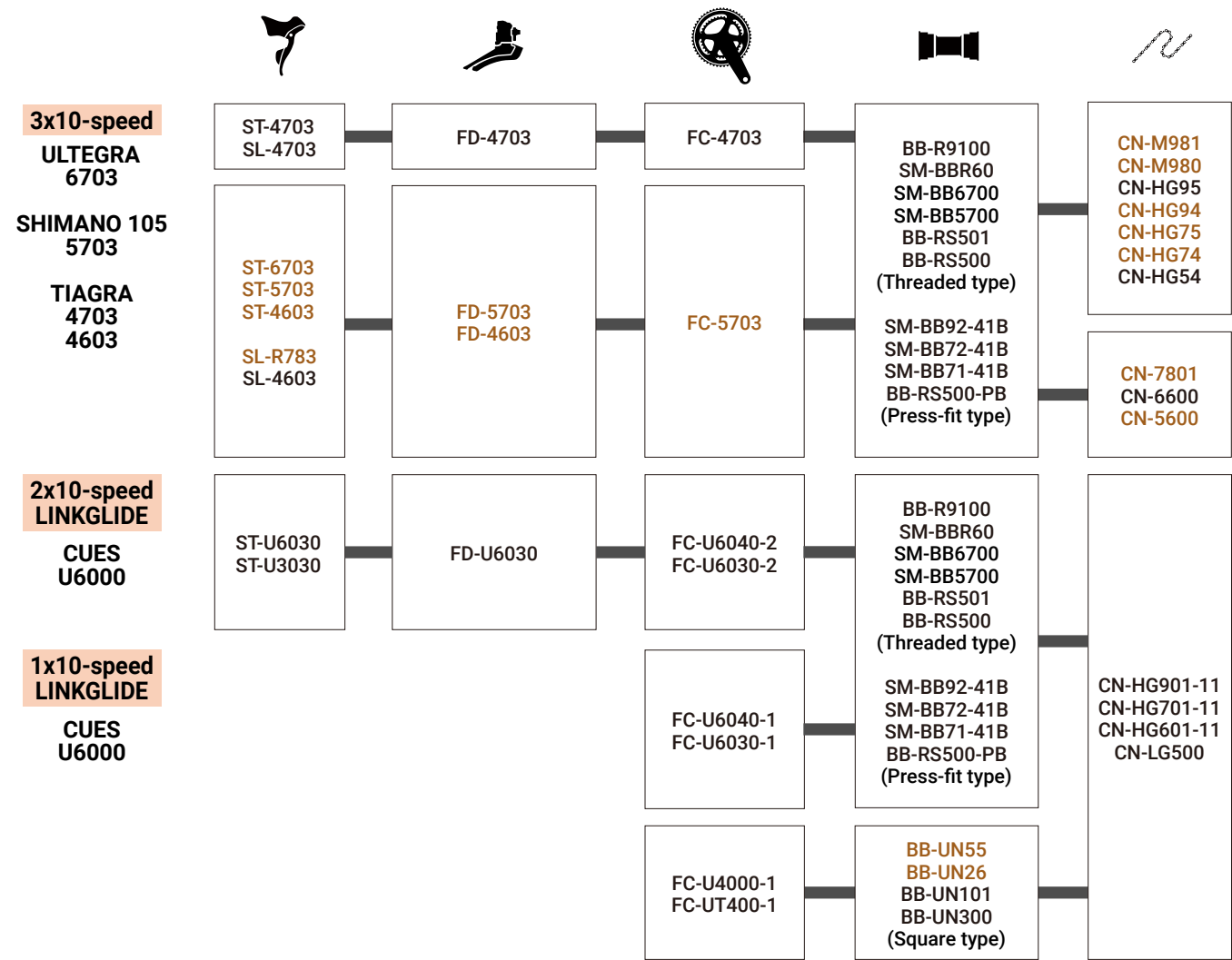
C-455

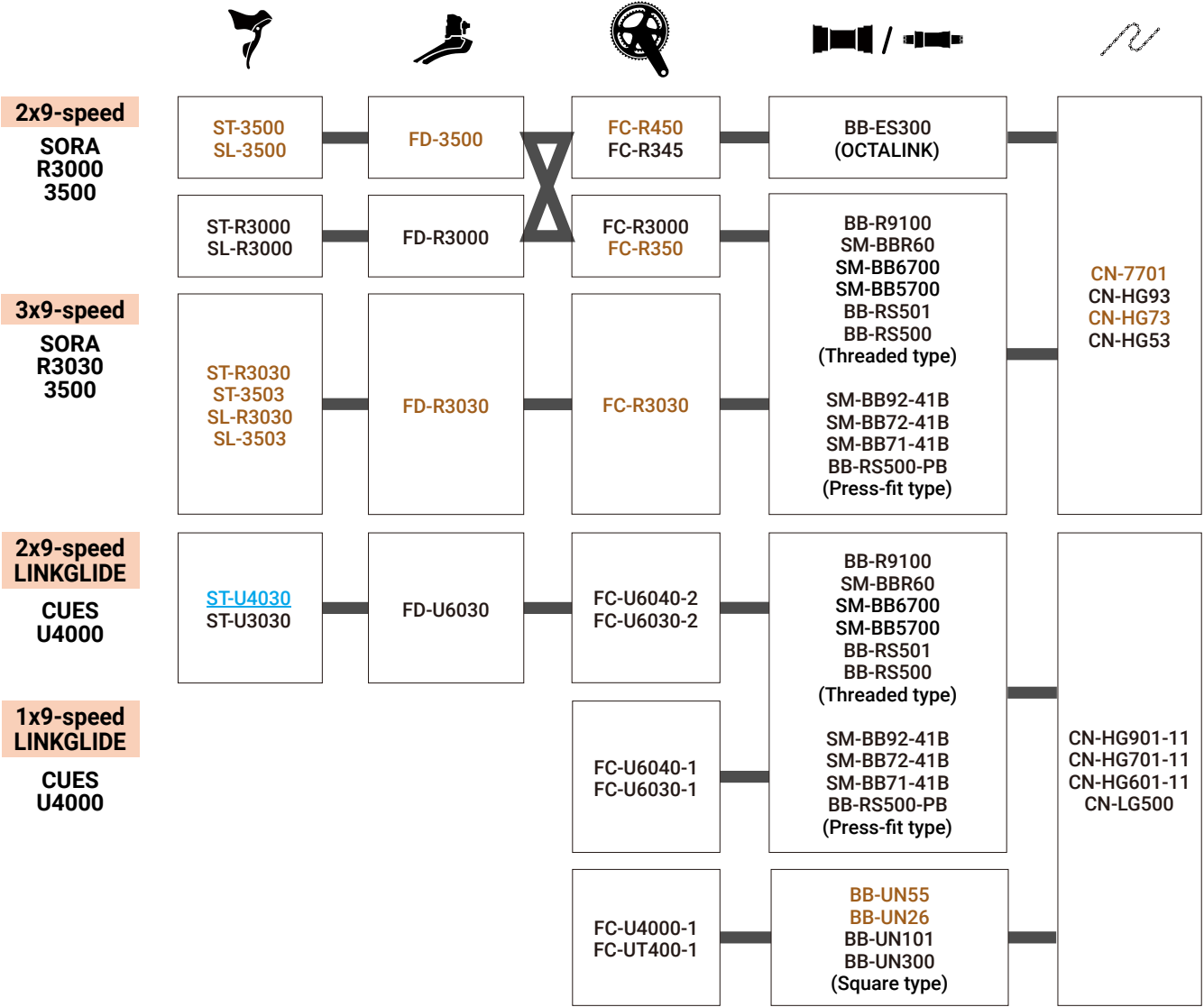
5. Compatibility

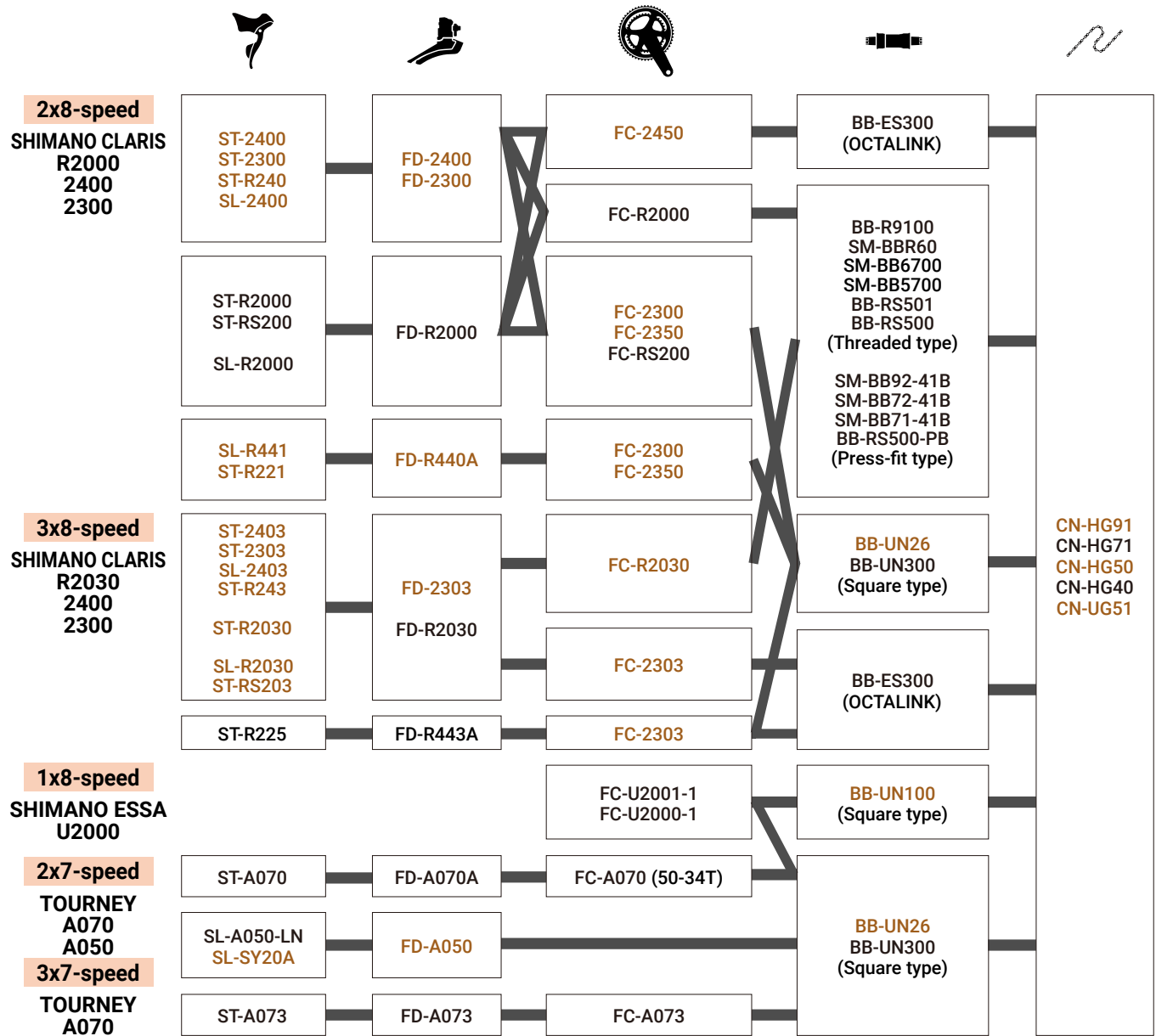












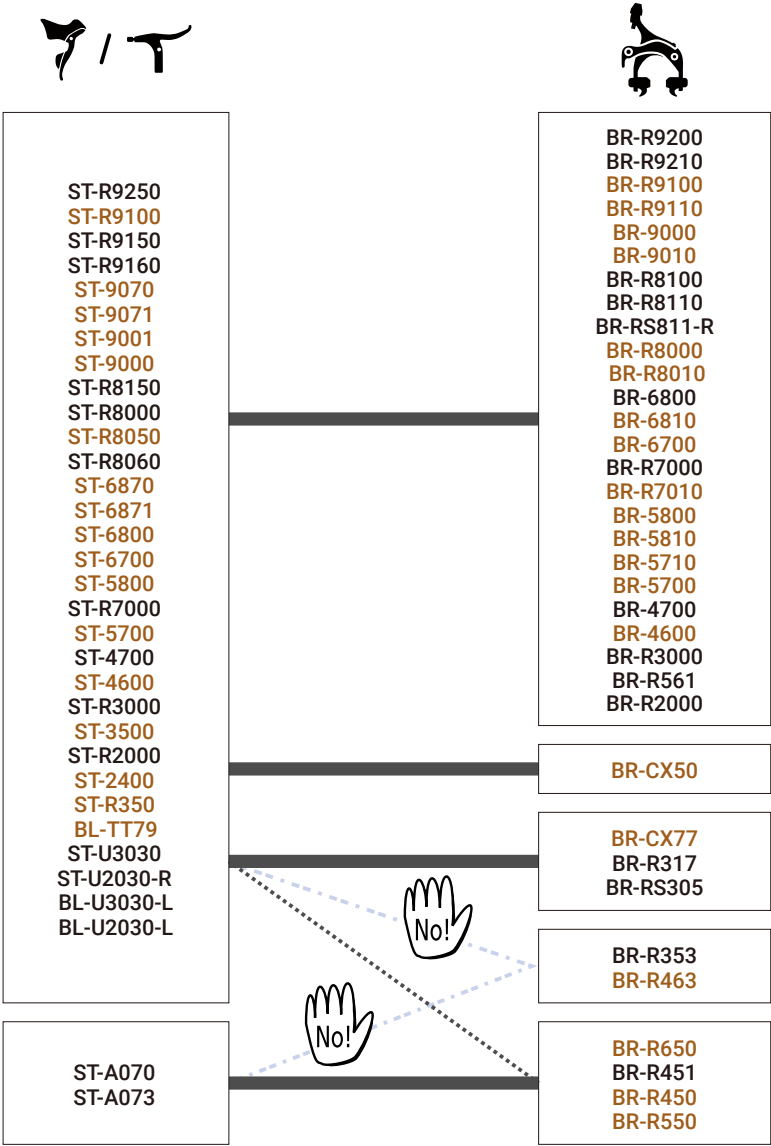
Brake system for ROAD, Gravel, LIFESTYLE components

C-737

5. Compatibility

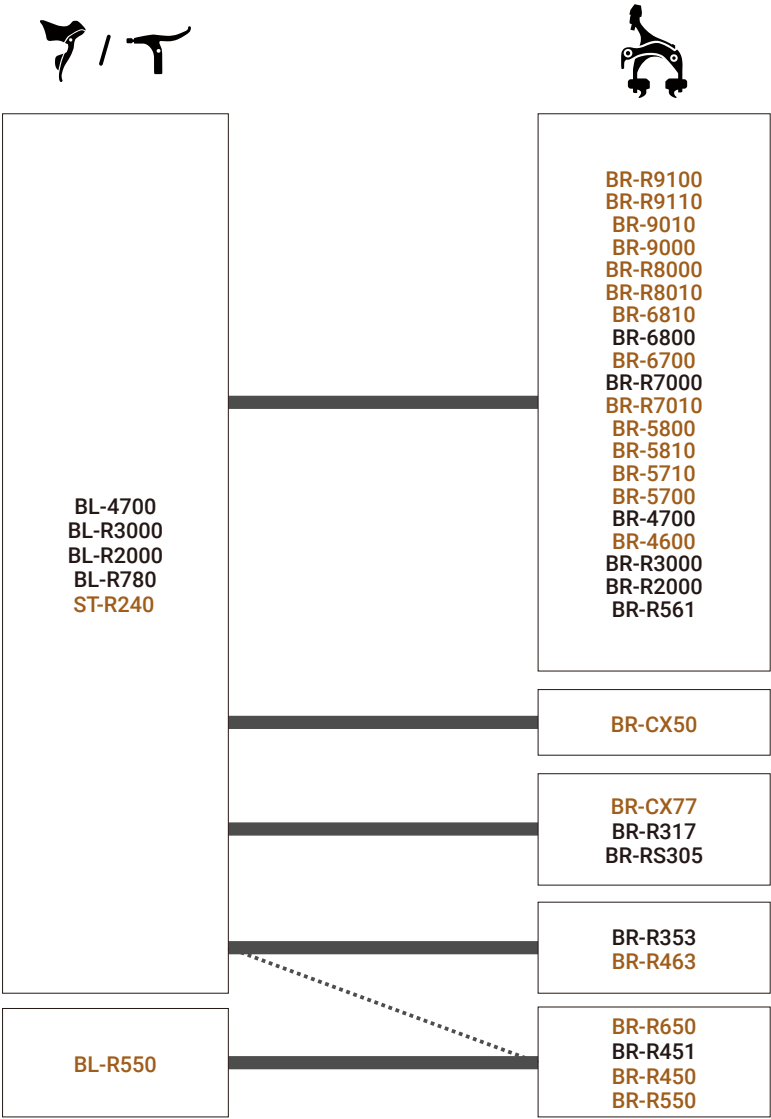
Brake systems compatibility [ROAD, LIFESTYLE]

C-456



..... : 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]

C-499

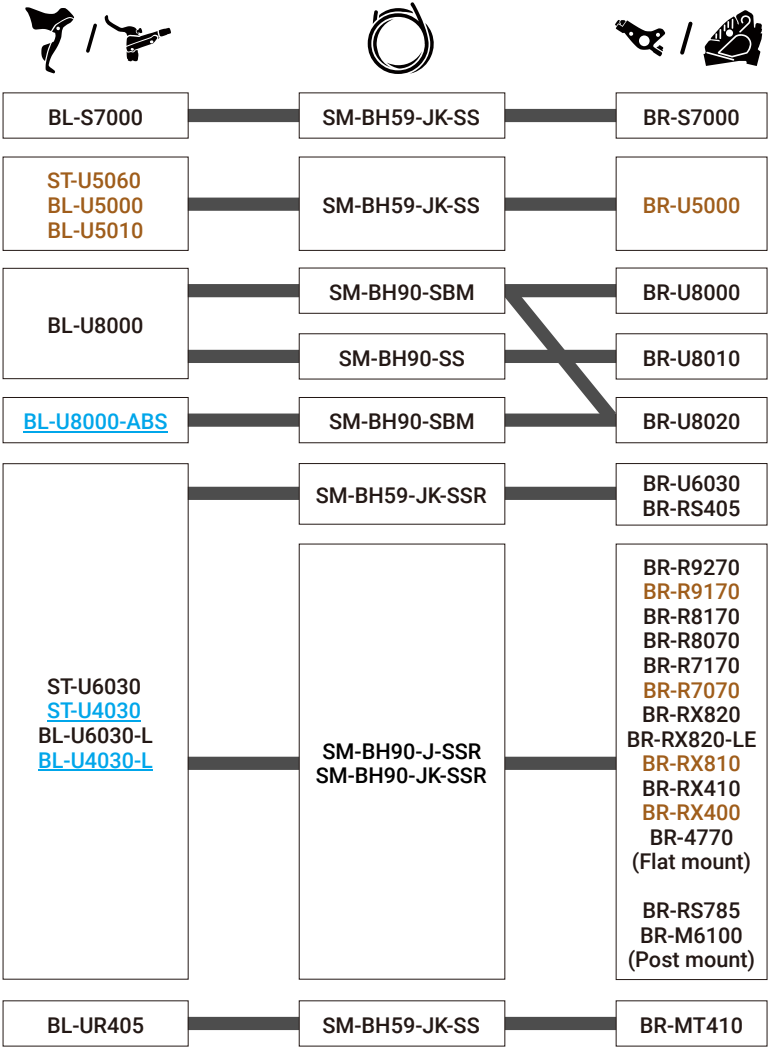
5. Compatibility

	Sub Brake Lever		
ST-R9270 ST-R8170 ST-R7170 ST-RX715-R BL-RS717-L BL-RS717-LS	BL-RX812	SM-BH90-J-SSR SM-BH90-JK-SSR	BR-R9270 BR-R8170 BR-R7170 BR-RX820 BR-RX820-LE BR-RX410 BR-RX400 BR-4770
ST-R9180	BL-RX812	SM-BH90-SS SM-BH90-JK-SS	
ST-R9120 ST-R9170 ST-R8020 ST-R8025 ST-R8070 ST-R7120 ST-R7020 ST-R7025 ST-RX820 ST-RX820-LA BL-RX820-L ST-RX825 BL-RX825-L ST-RX810 ST-RX810-LA ST-RX810-LE BL-RX810-L ST-RX815 ST-RX610 BL-RX610-L ST-RX600 BL-RX600-L ST-RX400 ST-4720 ST-4725	BL-RX812	SM-BH90-J-SSR SM-BH90-JK-SSR	BR-R9170 BR-R8070 BR-R7070 BR-RX810 (Flat mount) BR-RS785 BR-M6100 (Post mount)
ST-R4020	BL-RX812	SM-BH59-JK-SSR	
ST-RS405	BL-RX812	SM-BH59-SS SM-BH59-J-SS SM-BH59-JK-SS	BR-RS405
		SM-BH59-SB SM-BH59-SB-J	BR-R785
ST-R785 ST-RS685 ST-RS505	BL-RX812	SM-BH59-SS SM-BH59-J-SS SM-BH59-JK-SS	BR-RS805 BR-RS505 (Flat mount) BR-RS785 (Post mount)
		SM-BH90-SS SM-BH90-JK-SS	BR-R9170 BR-R8070 BR-R7070

Hydraulic systems compatibility [URBAN, LIFESTYLE]

C-500

5. Compatibility



Compatibility of specific brake lever and shifter

C-738

BL-U8000 / [BL-U8000-ABS](#)

Compatible shifters

Series	Model No.
DEORE XT	SL-M8200-R , SL-M8210-R
	SL-M8230-R11
	SL-M8130-R
	SL-M8100-R
SLX	SL-M7100-R
DEORE	SL-M6200-R , SL-M6210-R
	SL-M6230-R11
	SL-M6100-R (w/o OPTICAL GEAR DISPLAY)
	SL-M5130-R (w/o OPTICAL GEAR DISPLAY)
	SL-M5100-R (w/o OPTICAL GEAR DISPLAY)
	SL-M4100-R (w/o OPTICAL GEAR DISPLAY)
CUES	SL-U8000-L / SL-U8000-11R
	SL-U8000-IL / SL-U8000-11IR

Compatibility with shifters not listed in the table above

Clamp band type

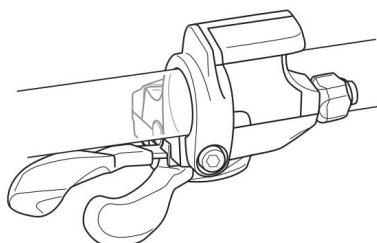
Shifter type	Specification	Compatibility with BL-U8000
REVOSHIFT	-	Not compatible
RAPIDFIRE PLUS RAPIDFIRE PLUS MONO Thumb Shifter PLUS	w/o OPTICAL GEAR DISPLAY	*1
	w/ OPTICAL GEAR DISPLAY on top *2	Not compatible
	w/ OPTICAL GEAR DISPLAY on bottom *2	*1

I-SPEC type

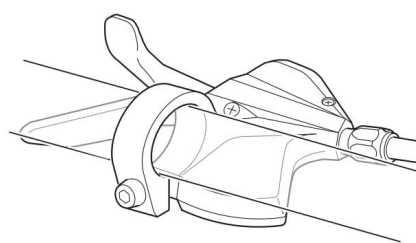
Mount type	Compatibility
I-SPEC	Not compatible
I-SPEC II	*1
I-SPEC EV	Not compatible

*1 Please contact SHIMANO sales office

*2



w/ OPTICAL GEAR DISPLAY on top



w/ OPTICAL GEAR DISPLAY on bottom

BL-UR405

Compatible shifters

Series	Model No.
CUES	SL-U6050-11R
	SL-U6050-10R
	SL-U4050-9R

[BL-MT220](#) / [BL-MT220-ABS](#) / [BL-MT221](#) / [BL-MT420](#) / [BL-MT420-3A](#) / [BL-MT420-3A-ABS](#)

Compatible shifters

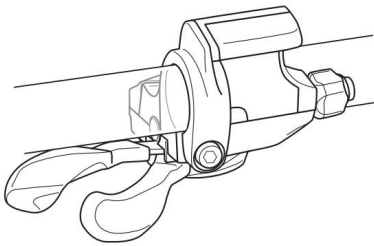
Series	Model No.
CUES	SL-U8000-11R
CUES	SL-U6000-11R
CUES	SL-U4000-9R
SHIMANO	SL-M315-8R
SHIMANO	SL-RV400-8R
SHIMANO	SL-RV300-7R
NEXUS	SL-C6001-8
NEXUS	SL-C3001-7
NEXUS	SL-C7000-5
DEORE XT	SL-M8230-R11
DEORE	SL-M6200-R

Compatibility with shifters not listed in the table above

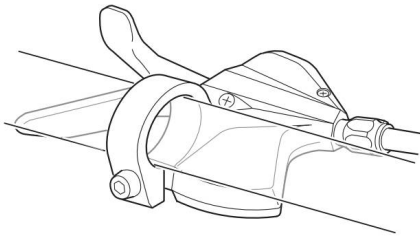
Shifter type	Specification	Compatibility with BL-MT220 / BL-MT220-ABS / BL-MT221 / BL-MT420 / BL-MT420-3A / BL-MT420-3A-ABS
REVOSHIFT	-	*1
RAPIDFIRE PLUS RAPIDFIRE PLUS MONO Thumb Shifter PLUS	w/o OPTICAL GEAR DISPLAY	*1
	w/ OPTICAL GEAR DISPLAY on top	Not compatible
	w/ OPTICAL GEAR DISPLAY on bottom	*1

*1 Please contact SHIMANO sales office

*2



w/ OPTICAL GEAR DISPLAY on top



w/ OPTICAL GEAR DISPLAY on bottom

I-SPEC

C-156

Compatibility of I-SPEC shifter and brake lever

C-157

With the exceptions noted below, clamp band type shifters are compatible as I-SPEC if the upper body is replaced with an integral unit.

- RAPIDFIRE PLUS MONO Shifter
- SL-U8000

I-SPEC EV shifter

	Model No.	SL-M9100-IR	SL-M8200-IR	SL-M8210-IR	SL-M8230-IR11	SL-M8100-IR	SL-M8130-IR11	SL-M7100-IR
I-SPEC EV	BL-M9200	✓	✓	✓	✓	✓	✓	✓
	BL-M9220	✓	✓	✓	✓	✓	✓	✓
	BL-M9100	✓	✓	✓	✓	✓	✓	✓
	BL-M9120	✓	✓	✓	✓	✓	✓	✓
	BL-M8200	✓	✓	✓	✓	✓	✓	✓
	BL-M8100	✓	✓	✓	✓	✓	✓	✓
	BL-M7100	✓	✓	✓	✓	✓	✓	✓
	BL-M6200	✓	✓	✓	✓	✓	✓	✓
	BL-M6100	✓	✓	✓	✓	✓	✓	✓
	BL-M4100	✓	✓	✓	✓	✓	✓	✓
I-SPEC II	BL-MT620	✓	✓	✓	✓	✓	✓	✓
	BL-M9000	-	-	-	-	-	-	-
	BL-M9020	-	-	-	-	-	-	-
	BL-M8000	-	-	-	-	-	-	-
	BL-T8100	-	-	-	-	-	-	-
	BL-T8000	-	-	-	-	-	-	-
	BL-M7000	-	-	-	-	-	-	-
	BL-M6000	-	-	-	-	-	-	-
	BL-T6000	-	-	-	-	-	-	-
	BL-RS600	-	-	-	-	-	-	-
	BL-MT500	-	-	-	-	-	-	-
	BL-MT501	-	-	-	-	-	-	-
	BL-U8000 *1	-	-	-	-	-	-	-
	BL-U8000-ABS *1	-	-	-	-	-	-	-
	BL-U5000	-	-	-	-	-	-	-
I-SPEC B	BL-M820-B	-	-	-	-	-	-	-

	Model No.	SL-M6200-IR	SL-M6210-IR	SL-M6230-IR11	SL-M6100-IR	SL-M5100-IR	SL-M4100-IR	SL-M4100-IR
I-SPEC EV	BL-M9200	✓	✓	✓	✓	✓	✓	✓
	BL-M9220	✓	✓	✓	✓	✓	✓	✓
	BL-M9100	✓	✓	✓	✓	✓	✓	✓
	BL-M9120	✓	✓	✓	✓	✓	✓	✓
	BL-M8200	✓	✓	✓	✓	✓	✓	✓
	BL-M8100	✓	✓	✓	✓	✓	✓	✓
	BL-M7100	✓	✓	✓	✓	✓	✓	✓
	BL-M6200	✓	✓	✓	✓	✓	✓	✓
	BL-M6100	✓	✓	✓	✓	✓	✓	✓
	BL-M4100	✓	✓	✓	✓	✓	✓	✓
I-SPEC II	BL-MT620	✓	✓	✓	✓	✓	✓	✓
	BL-M9000	-	-	-	-	-	-	-
	BL-M9020	-	-	-	-	-	-	-
	BL-M8000	-	-	-	-	-	-	-
	BL-T8100	-	-	-	-	-	-	-
	BL-T8000	-	-	-	-	-	-	-
	BL-M7000	-	-	-	-	-	-	-
	BL-M6000	-	-	-	-	-	-	-
	BL-T6000	-	-	-	-	-	-	-
	BL-RS600	-	-	-	-	-	-	-
	BL-MT500	-	-	-	-	-	-	-
	BL-MT501	-	-	-	-	-	-	-
	BL-U8000 *1	-	-	-	-	-	-	-
	BL-U8000-ABS *1	-	-	-	-	-	-	-
	BL-U5000	-	-	-	-	-	-	-
I-SPEC B	BL-M820-B	-	-	-	-	-	-	-

*1 As for the compatibility between BL-U8000 / [BL-U8000-ABS](#) and mechanical shifter, please refer to the [C-738](#).

I-SPEC II shifter

	Model No.	SL-M9000-I	SL-M8000-I	SL-M7000-11-I SL-M7000-10-I	SL-U5000	SL-M6000-I	SL-RS700-I	SL-U8000-I
I-SPEC EV	BL-M9200	-	-	-	-	-	-	-
	BL-M9220	-	-	-	-	-	-	-
	BL-M9100	-	-	-	-	-	-	-
	BL-M9120	-	-	-	-	-	-	-
	BL-M8200	-	-	-	-	-	-	-
	BL-M8100	-	-	-	-	-	-	-
	BL-M7100	-	-	-	-	-	-	-
	BL-M6200	-	-	-	-	-	-	-
	BL-M6100	-	-	-	-	-	-	-
	BL-M4100	-	-	-	-	-	-	-
	BL-MT620	-	-	-	-	-	-	-
I-SPEC II	BL-M9000	✓	✓	✓	✓	✓	✓	✓
	BL-M9020	✓	✓	✓	✓	✓	✓	✓
	BL-M8000	✓	✓	✓	✓	✓	✓	✓
	BL-T8100	✓	✓	✓	✓	✓	✓	✓
	BL-T8000	✓	✓	✓	✓	✓	✓	✓
	BL-M7000	✓	✓	✓	✓	✓	✓	✓
	BL-M6000	✓	✓	✓	✓	✓	✓	✓
	BL-T6000	✓	✓	✓	✓	✓	✓	✓
	BL-RS600	✓	✓	✓	✓	✓	✓	✓
	BL-MT500	✓	✓	✓	✓	✓	✓	✓
	BL-MT501	✓	✓	✓	✓	✓	✓	✓
	BL-U8000 *1	-	-	-	-	-	-	✓
	BL-U8000-ABS *1	-	-	-	-	-	-	✓
	BL-U5000	✓	✓	✓	✓	✓	✓	✓
I-SPEC B	BL-M820-B	-	-	-	-	-	-	-

*1 As for the compatibility between BL-U8000 / [BL-U8000-ABS](#) and mechanical shifter, please refer to the [C-738](#).

I-SPEC B shifter

	Model No.	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-M9200	-	-	-
	BL-M9220	-	-	-
	BL-M9100	-	-	-
	BL-M9120	-	-	-
	BL-M8200	-	-	-
	BL-M8100	-	-	-
	BL-M7100	-	-	-
	BL-M6200	-	-	-
	BL-M6100	-	-	-
	BL-M4100	-	-	-
I-SPEC II	BL-MT620	-	-	-
	BL-M9000	-	-	-
	BL-M9020	-	-	-
	BL-M8000	-	-	-
	BL-T8100	-	-	-
	BL-T8000	-	-	-
	BL-M7000	-	-	-
	BL-M6000	-	-	-
	BL-T6000	-	-	-
	BL-RS600	-	-	-
	BL-MT500	-	-	-
	BL-MT501	-	-	-
	BL-U8000 *1	-	-	-
	BL-U8000-ABS	-	-	-
	BL-U5000	-	-	-
I-SPEC B	BL-M820-B	✓	✓	✓

*1 As for the compatibility between BL-U8000 / [BL-U8000-ABS](#) and mechanical shifter, please refer to the [C-738](#).

Compatibility of seat post lever and brake lever

	Model No.	SL-MT800	SL-MT500-I
I-SPEC EV	BL-M9200	✓	✓
	BL-M9220	✓	✓
	BL-M9100	✓	✓
	BL-M9120	✓	✓
	BL-M8200	✓	✓
	BL-M8100	✓	✓
	BL-M7100	✓	✓
	BL-M6200	✓	✓
	BL-M6100	✓	✓
	BL-M4100	✓	✓
	BL-MT620	✓	✓
I-SPEC II	BL-M9000	-	-
	BL-M9020	-	-
	BL-M8000	-	-
	BL-T8100	-	-
	BL-T8000	-	-
	BL-M7000	-	-
	BL-M6000	-	-
	BL-T6000	-	-
	BL-RS600	-	-
	BL-MT500	-	-
	BL-MT501	-	-
	BL-U8000	-	-
	BL-U8000-ABS	-	-
	BL-U5000	-	-
I-SPEC B	BL-M820-B	-	-

Compatibility of Shift Switch and I-SPEC brake lever

C-744

For SHIMANO E-BIKE SYSTEMS switch unit, refer to [C-421](#)

I-SPEC EV type brake lever

Model No.	SW-M9250-IR	SW-M8250-IR	SW-M6250-IR	SW-M8150-IR	SW-M9050	SW-M8050	SW-EN605-R
BL-M9200	✓	✓	✓	✓	-	-	✓
BL-M9220	✓	✓	✓	✓	-	-	✓
BL-M9100	✓	✓	✓	✓	-	-	✓
BL-M9120	✓	✓	✓	✓	-	-	✓
BL-M8200	✓	✓	✓	✓	-	-	✓
BL-M8100	✓	✓	✓	✓	-	-	✓
BL-M7100	✓	✓	✓	✓	-	-	✓
BL-M6200	✓	✓	✓	✓	-	-	✓
BL-M6100	✓	✓	✓	✓	-	-	✓
BL-M4100	✓	✓	✓	✓	-	-	✓
BL-M4100-ABS	✓	✓	✓	✓	✓	✓	✓
BL-MT620	✓	✓	✓	✓	-	-	✓

I-SPEC II type brake lever

Model No.	SW-M9250-R	SW-M8250-R	SW-M6250-R	SW-M8150-R	SW-M9050	SW-M8050	SW-EN605-R
BL-M9000	✓	✓	✓	✓	✓	✓	✓
BL-M9020	✓	✓	✓	✓	✓	✓	✓
BL-M8000	✓	✓	✓	✓	✓	✓	✓
BL-T8100	✓	✓	✓	✓	✓	✓	✓
BL-T8000	✓	✓	✓	✓	✓	✓	✓
BL-M7000	✓	✓	✓	✓	✓	✓	✓
BL-M6000	✓	✓	✓	✓	✓	✓	✓
BL-T6000	✓	✓	✓	✓	✓	✓	✓
BL-RS600	✓	✓	✓	✓	✓	✓	✓
BL-MT500	✓	✓	✓	✓	✓	✓	✓
BL-MT501	✓	✓	✓	✓	✓	✓	✓
BL-U8000	✓	✓	✓	✓	-	-	✓
BL-U8000-ABS	✓	✓	✓	✓	✓	✓	✓
BL-U5000	✓	✓	✓	✓	✓	✓	✓

I-SPEC B type brake lever

Model No.	SW-M9250-R	SW-M8250-R	SW-M6250-IR	SW-M8150-R	SW-M9050	SW-M8050	SW-EN605-R
BL-M820-B	✓	✓	✓	✓	✓	✓	✓

Other clamp band type brake lever

SW-M8250-R / SW-M6250-R / SW-M8150-R / SW-M9050 / SW-M8050 / SW-EN605-R

Model No.	SW-M8250-R	SW-M6250-R	SW-M8150-R	SW-M9050	SW-M8050	SW-EN605-R
BL-MT402-3A	-	-	✓	✓	✓	✓
BL-MT402-ABS	-	-	✓	✓	✓	✓
BL-MT401	-	-	✓	✓	✓	✓
BL-MT201	-	-	✓	✓	✓	✓
BL-MT200	-	-	✓	✓	✓	✓
BL-MT200-ABS	-	-	✓	✓	✓	✓
BL-MT420-3A-ABS	✓	✓	-	-	-	✓
BL-MT420-3A	✓	✓	-	-	-	✓
BL-MT420	✓	✓	-	-	-	✓
BL-MT220-ABS	✓	✓	-	-	-	✓
BL-MT221	✓	✓	-	-	-	✓
BL-MT220	✓	✓	-	-	-	✓

Disc brake

C-460

SHIMANO brake oil compatibility

C-736

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

SHIMANO LOW VISCOSITY OIL dedicated models

Brake lever	Brake caliper
BL-M9200	BR-M9200
	BR-MT805
BL-M9220	BR-M9220
	BR-M9200
	BR-MT805
BL-M8200	BR-M8200
	BR-M8220
	BR-MT805
BL-M6200	BR-M6200
	BR-M6220
BL-MT620	BR-MT600
	BR-MT620

NOTE

The following can use the same product for SHIMANO LOW VISCOSITY OIL and SHIMANO mineral oil.

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

Disc brake caliper and rotor compatibility

C-461

2.2 mm thickness rotor

Brake caliper	Brake pad material	Pad type	Rotor				
			220 mm	200 mm	180 mm	160 mm	140 mm
BR-M9220 BR-M8220 BR-M6220 BR-MT620	Metal / Resin	Narrow	RT-CL750 RT-6B750	RT-CL750 RT-6B750	-	-	-

5. Compatibility

Brake caliper	Brake pad material	Pad type	Rotor				
			220 mm	203 mm	180 mm	160 mm	140 mm
BR-R9270*3 BR-R9170*3 BR-R8170 BR-R8070 BR-R7170 BR-R7070 BR-4770 BR-RS805 BR-R785 BR-RS785 BR-RS505 BR-RS405*8 BR-RS305 BR-RX820 BR-RX820-LE BR-RX810 BR-RX410 BR-RX400	Metal / Resin	Narrow	-	-	RT-CL900 RT-CL800 RT-CL700 RT-MT900 RT-MT800 SM-RT99 SM-RT81 SM-RT70 RT-EM910*1 RT-EM900*1 RT-EM810*1 RT-EM800*1 RT-CL300*2 SM-RT64 SM-RT54*2 SM-RT30*2 SM-RT10*2 RT-EM600*1 RT-EM300*1*2 RT-MT905 SM-RT86 SM-RT76 SM-RT66 SM-RT56*2 SM-RT26*2	RT-CL900 RT-CL800 RT-CL700 RT-MT900 RT-MT800 SM-RT900 SM-RT800 SM-RT99 SM-RT81 SM-RT70 RT-EM910*1 RT-EM900*1 RT-EM810*1 RT-EM800*1 RT-CL300*2 SM-RT64 SM-RT54*2 SM-RT30*2 SM-RT10*2 RT-EM600*1 RT-EM300*1*2 SM-RT86 SM-RT76 SM-RT66 SM-RT56*2 SM-RT26*2	RT-CL900 RT-CL800 RT-CL700 RT-MT900 RT-MT800 SM-RT900 SM-RT800 SM-RT99 SM-RT99-A SM-RT81 SM-RT70 SM-RT64 SM-RT26*2
BR-CX77 BR-R317	Metal / Resin	Narrow	-	-	-	SM-RT99 SM-RT81 SM-RT70 SM-RT64 SM-RT86 SM-RT76 SM-RT66	SM-RT99 SM-RT99-A SM-RT81
BR-U5000*3	Metal / Resin	Narrow	-	-	-	SM-RT99 SM-RT81 SM-RT70 SM-RT64 SM-RT86 SM-RT76 SM-RT66	SM-RT500 SM-RT99 SM-RT99-A SM-RT81

*1 Rotor for speed sensor SM-DUE11, rear only

*2 Resin pad only

*3 Not compatible with rear 180 mm rotors

*4 Not compatible with 220mm and 203 mm rotors

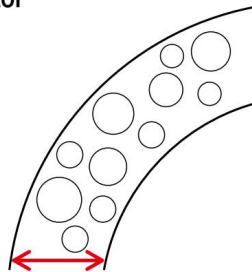
*5 For rear only. Not compatible with 220mm, 203 mm and 180 mm rotors.

*6 For rear only. Not compatible 220mm and with 203 mm rotors.

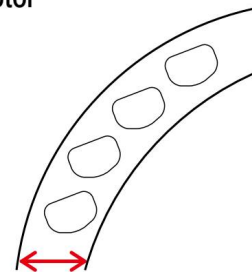
*7 Not compatible with 140 mm rotors.

*8 Please note that the brake kit consisting of BR-RS405, SM-BH59-JK-SSR, and either ST-U6030-R/ST-U6030-L/BL-U6030-L/[ST-U4030-R](#)/[ST-U4030-L](#)/[BL-U4030-L](#)/ST-R4020-R or ST-R4020-L is not compatible with 140 mm rotors.

Wide type rotor



Narrow type rotor



NOTE

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

Compatibility of lock ring with hubs

C-612

Front hub (Disc Brake)

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

* For E-THRU hub, "Internal & external spline" type lock ring can not be install by TL-LR11. Please Tighten with TL-FC36.

FREEHUB (Disc Brake)

Model No.	Fixing type of lock ring		
	Internal spline	Internal & external spline	External spline
FH-M9210-B	✓	✓	✓
FH-M8210-B	✓	✓	✓
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-MT410	BR-MT420
BL-MT400	✓	✓	-
BL-MT402-3A	✓	✓	✓
BL-MT402-ABS	-	-	✓
BL-MT401-3A	✓	✓	-
BL-MT401	✓	✓	✓
BL-MT420	-	✓	✓
BL-MT420-3A	-	✓	✓
BL-MT420-3A-ABS	-	-	✓
BL-M4100	✓	✓	✓
BL-M4100-ABS	-	-	✓

Combination chart (mechanical disc brake)

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-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

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

MTB, Trekking, URBAN, LIFESTYLE C-732

5. Compatibility

		SM-BH90-JK-SSR	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBS	SM-BH90-SB	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-M9200	BR-M9200	—	—	—	—	—	✓
	BR-MT805	—	—	—	—	—	✓
BL-M9220	BR-M9220	—	✓	—	—	—	—
	BR-M9200	—	—	—	—	—	✓
	BR-MT805	—	—	—	—	—	✓
BL-M8200	BR-M8200	—	✓	—	—	—	—
	BR-M8220	—	✓	—	—	—	—
	BR-MT805	—	—	—	—	—	✓
BL-M9100	BR-M9100	—	—	—	—	—	✓
BL-M9100	BR-M9110	—	—	—	—	—	✓
BL-M9120	BR-M9120	—	✓	—	—	—	—
BL-M9000	BR-M9000	—	✓	—	—	—	—
BL-M9020	BR-M9020	—	✓	—	—	✓	—
BL-M820	BR-M820	—	—	✓	—	—	—
BL-M8100	BR-M8100	—	✓	—	—	—	—
BL-M8100	BR-M8110	—	—	—	—	—	✓
BL-M8100	BR-M8120	—	✓	—	—	—	—
BL-M8000	BR-M8000	—	✓	—	—	✓	—
BL-M8000	BR-M8020	—	—	✓	—	—	—
BL-T8100	BR-M8100	—	✓	—	—	—	—
BL-T8100	BR-M8120	—	✓	—	—	—	—
BL-M7100	BR-M7100	—	✓	—	—	—	—
BL-M7100	BR-M7110	—	—	—	—	—	✓
BL-M7100	BR-M7120	—	✓	—	—	—	—
BL-M7000	BR-M7000	—	✓	—	—	✓	—
BL-M6200	BR-M6200	—	—	—	—	—	✓
BL-M6200	BR-M6220	—	—	—	—	—	✓
BL-M6100	BR-M6100	—	—	—	—	—	✓
BL-M6100	BR-M6120	—	—	—	—	—	✓
BL-T675	BR-T675	—	—	—	—	—	✓
BL-M640	BR-M640	—	—	✓	✓	—	—
BL-M6000	BR-M6000	—	—	—	—	—	✓
BL-M4100	BR-MT410	—	—	—	—	—	—
BL-M4100	BR-MT420	—	—	—	—	—	✓
BL-M4100-ABS	BR-MT420	—	—	—	—	—	✓
BL-MT620	BR-MT600	—	—	—	—	—	✓
BL-MT620	BR-MT620	—	—	—	—	—	✓
BL-T6000	BR-M6000	—	—	—	—	—	—
BL-S7000	BR-S7000	—	—	—	—	—	—

Level of compatibility

✓: Compatible

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

—: Impossible to use

*1 Gold color banjo is available for this combination.

Connection		SM-BH90-JK-SSR	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBS	SM-BH90-SB	SM-BH90-SS
Rigidity		Straight - Straight	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Straight
		High power	High power	High power	High power	High power	High power
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-MT410	—	—	—	—	—	—
BL-MT401	BR-MT420	—	—	—	—	—	✓
BL-MT401-3A	BR-MT400	—	—	—	—	—	—
BL-MT402-3A	BR-MT400	—	—	—	—	—	—
BL-MT402-3A	BR-MT410	—	—	—	—	—	—
BL-MT402-3A	BR-MT420	—	—	—	—	—	✓
BL-MT402-ABS	BR-MT420	—	—	—	—	—	✓
BL-MT420	BR-MT410	—	—	—	—	—	—
BL-MT420	BR-MT420	—	—	—	—	—	✓
BL-MT420-3A	BR-MT410	—	—	—	—	—	—
BL-MT420-3A	BR-MT420	—	—	—	—	—	✓
BL-MT420-3A-ABS	BR-MT420	—	—	—	—	—	✓
BL-MT201	BR-MT200	—	—	—	—	—	—
BL-MT200	BR-MT200	—	—	—	—	—	—
BL-MT201	BR-UR300	—	—	—	—	—	—
BL-MT200	BR-UR300	—	—	—	—	—	—
BL-MT200-ABS	BR-MT200	—	—	—	—	—	—
BL-MT220	BR-MT200	—	—	—	—	—	—
BL-MT221	BR-MT200	—	—	—	—	—	—
BL-MT220	BR-UR300	—	—	—	—	—	—
BL-MT221	BR-UR300	—	—	—	—	—	—
BL-MT220-ABS	BR-MT200	—	—	—	—	—	—
BL-M365	BR-M365	—	—	—	—	—	—
BL-M315	BR-M315	—	—	—	—	—	—
ST-EF515	BR-MT200	—	—	—	—	—	—
ST-EF505	BR-M315	—	—	—	—	—	—
ST-EF505	BR-MT200	—	—	—	—	—	—
BL-S700	BR-S700	—	✓	—	—	✓	—
BL-U8000	BR-U8000	—	✓	—	—	—	—
BL-U8000	BR-U8010	—	—	—	—	—	✓
BL-U8000	BR-U8020	—	✓	—	—	—	—
BL-U8000-ABS	BR-U8020	—	✓	—	—	—	—
BL-U5000	BR-U5000	—	—	—	—	—	—
BL-U5010		—	—	—	—	—	—
ST-U5060		—	—	—	—	—	—
BL-UR405	BR-MT410	—	—	—	—	—	—

Level of compatibility

✓: Compatible

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

—: Impossible to use

		SM-BH59-J-SS	SM-BH59-JK-SS	SM-BH59-JK-SSR	SM-BH59-SB	SM-BH59-SB-J
Connection		Straight - Straight	Straight - Straight	Straight - Straight	Straight - Banjo	Straight - Banjo
Rigidity		Standard	Standard	Standard	Standard	Standard
BL-M9200	BR-M9200	—	—	—	—	—
	BR-MT805	—	—	—	—	—
BL-M9220	BR-M9220	—	—	—	—	—
	BR-MT805	—	—	—	—	—
BL-M8200	BR-M8200	—	—	—	—	—
	BR-M8220	—	—	—	—	—
	BR-MT805	—	—	—	—	—
BL-M9100	BR-M9100	—	—	—	—	—
BL-M9100	BR-M9110	—	—	—	—	—
BL-M9120	BR-M9120	—	—	—	—	—
BL-M9000	BR-M9000	—	—	—	—	—
BL-M9020	BR-M9020	—	—	—	—	—
BL-M820	BR-M820	—	—	—	—	—
BL-M8100	BR-M8100	—	—	—	—	—
BL-M8100	BR-M8110	—	—	—	—	—
BL-M8100	BR-M8120	—	—	—	—	—
BL-M8000	BR-M8000	—	—	—	—	—
BL-M8000	BR-M8020	—	—	—	—	—
BL-T8100	BR-M8100	—	—	—	—	—
BL-T8100	BR-M8120	—	—	—	—	—
BL-M7100	BR-M7100	—	—	—	—	—
BL-M7100	BR-M7110	—	—	—	—	—
BL-M7100	BR-M7120	—	—	—	—	—
BL-M7000	BR-M7000	—	—	—	—	—
BL-M6200	BR-M6200	—	—	—	—	—
BL-M6200	BR-M6220	—	—	—	—	—
BL-M6100	BR-M6100	—	—	—	—	—
BL-M6100	BR-M6120	—	—	—	—	—
BL-T675	BR-T675	—	—	—	—	—
BL-M640	BR-M640	—	—	—	—	—
BL-M6000	BR-M6000	—	—	—	—	—
BL-M4100	BR-MT410	—	✓	—	—	—
BL-M4100	BR-MT420	—	—	—	—	—
BL-M4100-ABS	BR-MT420	—	—	—	—	—
BL-MT620	BR-MT600	—	—	—	—	—
BL-MT620	BR-MT620	—	—	—	—	—
BL-T6000	BR-M6000	—	✓	—	—	—
BL-S7000	BR-S7000	—	✓	—	—	—

Level of compatibility

✓: Compatible

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

—: Impossible to use

Connection		SM-BH59-J-SS	SM-BH59-JK-SS	SM-BH59-JK-SSR	SM-BH59-SB	SM-BH59-SB-J
Rigidity		Straight - Straight Standard	Straight - Straight Standard	Straight - Straight Standard	Straight - Banjo Standard	Straight - Banjo Standard
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-MT410	–	✓	–	–	–
BL-MT401	BR-MT420	–	–	–	–	–
BL-MT401-3A	BR-MT400	–	✓	–	–	–
BL-MT402-3A	BR-MT400	–	✓	–	–	–
BL-MT402-3A	BR-MT410	–	✓	–	–	–
BL-MT402-3A	BR-MT420	–	–	–	–	–
BL-MT402-ABS	BR-MT420	–	–	–	–	–
BL-MT420	BR-MT410	–	✓	–	–	–
BL-MT420	BR-MT420	–	–	–	–	–
BL-MT420-3A	BR-MT410	–	✓	–	–	–
BL-MT420-3A	BR-MT420	–	–	–	–	–
BL-MT420-3A-ABS	BR-MT420	–	–	–	–	–
BL-MT201	BR-MT200	–	✓	–	–	–
BL-MT200	BR-MT200	–	✓	–	–	–
BL-MT201	BR-UR300	–	✓	–	–	–
BL-MT200	BR-UR300	–	✓	–	–	–
BL-MT200-ABS	BR-MT200	–	✓	–	–	–
BL-MT220	BR-MT200	–	✓	–	–	–
BL-MT221	BR-MT200	–	✓	–	–	–
BL-MT220	BR-UR300	–	✓	–	–	–
BL-MT221	BR-UR300	–	✓	–	–	–
BL-MT220-ABS	BR-MT200	–	✓	–	–	–
BL-M365	BR-M365	–	✓	–	–	–
BL-M315	BR-M315	–	✓	–	–	–
ST-EF515	BR-MT200	–	✓	–	–	–
ST-EF505	BR-M315	–	✓	–	–	–
ST-EF505	BR-MT200	–	✓	–	–	–
BL-S700	BR-S700	–	–	–	–	–
BL-U8000	BR-U8000	–	–	–	–	–
BL-U8000	BR-U8010	–	–	–	–	–
BL-U8000	BR-U8020	–	–	–	–	–
BL-U8000-ABS	BR-U8020	–	–	–	–	–
BL-U5000	BR-U5000	–	✓	–	–	–
BL-U5010		–	✓	–	–	–
ST-U5060		–	✓	–	–	–
BL-UR405	BR-MT410	–	✓	–	–	–

Level of compatibility

✓: Compatible

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

–: Impossible to use

ROAD, Gravel, LIFESTYLE C-733

Connection		SM-BH90-JK-SSR	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBS	SM-BH90-SB	SM-BH90-SS
Rigidity		Straight - Straight	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Straight
		High power	High power	High power	High power	High power	High power
ST-R9270	BR-R9270	✓	—	—	—	—	—
ST-R9120 ST-R9170	BR-R9170	✓	—	—	—	—	—
ST-R9180	BR-R9170	✓	—	—	—	—	—
ST-R8170	BR-R8170	✓	—	—	—	—	—
ST-R8020 ST-R8070	BR-R8070	✓	—	—	—	—	—
ST-R7120	BR-R7170	✓	—	—	—	—	—
ST-R7170	BR-R7170	✓	—	—	—	—	—
BL-RS717	BR-R9270	✓	—	—	—	—	—
BL-RS717	BR-R8170	✓	—	—	—	—	—
BL-RS717	BR-R7170	✓	—	—	—	—	—
BL-RS717	BR-RX410	✓	—	—	—	—	—
ST-R7020	BR-R7170	✓	—	—	—	—	—
ST-R7020	BR-R7070	✓	—	—	—	—	—
ST-R7025	BR-R7170	✓	—	—	—	—	—
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-R4020	BR-RS405	—	—	—	—	—	—
ST-RS405	BR-RS405	—	—	—	—	—	—
BL-RS600	BR-RS405	—	—	—	—	—	—
ST-RX820	BR-RX820	✓	—	—	—	—	—
ST-RX825	BR-RX820	✓	—	—	—	—	—
ST-RX815	BR-RX820	✓	—	—	—	—	—
ST-RX815	BR-RX810	✓	—	—	—	—	—
ST-RX810-LE	BR-RX820-LE	✓	—	—	—	—	—
BL-T8100-LE	BR-RX820-LE	—	—	—	—	—	✓
BL-RX825	BR-RX820	✓	—	—	—	—	—
ST-RX810	BR-RX820	✓	—	—	—	—	—
ST-RX810	BR-RX810	✓	—	—	—	—	—
BL-RX820	BR-RX820	✓	—	—	—	—	—
BL-RX810	BR-RX820	✓	—	—	—	—	—
BL-RX810	BR-RX810	✓	—	—	—	—	—
ST-RX715-R	BR-RX410	✓	—	—	—	—	—
ST-RX610	BR-RX410	✓	—	—	—	—	—
ST-RX610	BR-RX400	✓	—	—	—	—	—
ST-RX600	BR-RX410	✓	—	—	—	—	—
ST-RX600	BR-RX400	✓	—	—	—	—	—
BL-RX610	BR-RX410	✓	—	—	—	—	—
BL-RX610	BR-RX400	✓	—	—	—	—	—
BL-RX600	BR-RX410	✓	—	—	—	—	—
BL-RX600	BR-RX400	✓	—	—	—	—	—
ST-RX400	BR-RX410	✓	—	—	—	—	—
ST-RX400	BR-RX400	✓	—	—	—	—	—
ST-U6030	BR-U6030	—	—	—	—	—	—
BL-U6030-L		—	—	—	—	—	—
ST-U6030	BR-RS405	—	—	—	—	—	—
BL-U6030-L		—	—	—	—	—	—
ST-U4030	BR-U6030	—	—	—	—	—	—
BL-U4030-L		—	—	—	—	—	—
ST-U4030	BR-RS405	—	—	—	—	—	—
BL-U4030-L		—	—	—	—	—	—

Level of compatibility

✓: Compatible

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

—: Impossible to use

Connection		SM-BH59-J-SS	SM-BH59-JK-SS	SM-BH59-JK-SSR	SM-BH59-SB	SM-BH59-SB-J
Rigidity		Straight - Straight	Straight - Straight	Straight - Straight	Straight - Banjo	Straight - Banjo
Standard		Standard	Standard	Standard	Standard	Standard
ST-R9270	BR-R9270	—	—	—	—	—
ST-R9120	BR-R9170	—	—	—	—	—
ST-R9170	BR-R9170	—	—	—	—	—
ST-R9180	BR-R9170	—	—	—	—	—
ST-R8170	BR-R8170	—	—	—	—	—
ST-R8020	BR-R8070	—	—	—	—	—
ST-R8070	BR-R8070	—	—	—	—	—
ST-R7120	BR-R7170	—	—	—	—	—
ST-R7170	BR-R7170	—	—	—	—	—
BL-RS717	BR-R9270	—	—	—	—	—
BL-RS717	BR-R8170	—	—	—	—	—
BL-RS717	BR-R7170	—	—	—	—	—
BL-RS717	BR-RX410	—	—	—	—	—
ST-R7020	BR-R7170	—	—	—	—	—
ST-R7020	BR-R7070	—	—	—	—	—
ST-R7025	BR-R7170	—	—	—	—	—
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-R4020	BR-RS405	—	—	✓	—	—
ST-RS405	BR-RS405	—	✓	—	—	—
BL-RS600	BR-RS405	—	✓	—	—	—
ST-RX820	BR-RX820	—	—	—	—	—
ST-RX825	BR-RX820	—	—	—	—	—
ST-RX815	BR-RX820	—	—	—	—	—
ST-RX815	BR-RX810	—	—	—	—	—
ST-RX810-LE	BR-RX820-LE	—	—	—	—	—
BL-T8100-LE	BR-RX820-LE	—	—	—	—	—
BL-RX825	BR-RX820	—	—	—	—	—
ST-RX810	BR-RX820	—	—	—	—	—
ST-RX810	BR-RX810	—	—	—	—	—
BL-RX820	BR-RX820	—	—	—	—	—
BL-RX810	BR-RX820	—	—	—	—	—
BL-RX810	BR-RX810	—	—	—	—	—
ST-RX715-R	BR-RX410	—	—	—	—	—
ST-RX610	BR-RX410	—	—	—	—	—
ST-RX610	BR-RX400	—	—	—	—	—
ST-RX600	BR-RX410	—	—	—	—	—
ST-RX600	BR-RX400	—	—	—	—	—
BL-RX610	BR-RX410	—	—	—	—	—
BL-RX610	BR-RX400	—	—	—	—	—
BL-RX600	BR-RX410	—	—	—	—	—
BL-RX600	BR-RX400	—	—	—	—	—
BL-RX600	BR-RX410	—	—	—	—	—
ST-RX400	BR-RX400	—	—	—	—	—
ST-U6030	BR-U6030	—	—	✓	—	—
BL-U6030-L	BR-U6030	—	—	✓	—	—
ST-U6030	BR-RS405	—	—	✓	—	—
BL-U6030-L	BR-RS405	—	—	✓	—	—
ST-U4030	BR-U6030	—	—	✓	—	—
BL-U4030-L	BR-U6030	—	—	✓	—	—
ST-U4030	BR-RS405	—	—	✓	—	—
BL-U4030-L	BR-RS405	—	—	✓	—	—

Level of compatibility

✓: Compatible

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

—: Impossible to use

Compatibility between banjo screw

C-625

Banjo screw	Special	Normal	Short	BR-M9120 SPEC.	BR-M8100 SPEC.
BR-M9220	—	—	—	—	✓
BR-M9120	—	—	—	✓	—
BR-M9000	✓	—	—	—	—
BR-M9020	✓	✓	—	—	—
BR-M820	—	—	✓	—	✓
BR-M8200	—	—	—	—	✓
BR-M8220	—	—	—	—	✓
BR-M8100	—	—	—	—	✓
BR-M8120	—	—	—	✓	—
BR-M8000	✓	✓	—	—	—
BR-M8020	—	—	✓	—	—
BR-M7100	—	—	—	—	✓
BR-M7120	—	—	—	✓	—
BR-M7000	✓	✓	—	—	—
BR-M640	—	—	✓	—	✓
BR-S700	✓	✓	—	—	—
BR-R785	✓	✓	—	—	—
BR-U8000	—	—	—	—	✓
BR-U8020	—	—	—	✓	—

Brake pad line-up

C-192

Brake pad for hydraulic disc brake (4-piston) C-652

Pad Shape Type									
		D-type	H-type	N-type	P-type				
		Narrow type		Narrow type					
Model No.		BP-D03S-RX Resin	BP-D02S-MX Metal	BP-H03A-RF Resin	BP-H03C-MF Metal	BP-N03A-RF Resin	BP-N04C-MF Metal	BP-P03A-RF Resin	BP-P04C-MF Metal
		★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★☆
Characteristics	Modulation	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★☆
	Power	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★
	Durability	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-fading	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
		Silence	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★☆
Pad Radiator fin		—	—	✓	✓	✓	✓	✓	✓
High heat insulation		—	—	—	—	—	—	—	—
Pad Back plate	Titanium	—	—	—	—	—	—	—	—
	Aluminum	—	—	✓	—	✓	—	✓	—
	Stainless steel/ Aluminum	—	—	—	✓	—	✓	—	✓
	Stainless steel	✓	✓	—	—	—	—	—	—
BR-M9220	Hydraulic	Option	Option	—	—	Option	Option	Standard *	Standard *
BR-M8220	Hydraulic	Option	Option	—	—	Option	Option	Standard *	Standard *
BR-M9120	Hydraulic	Option	Option	—	—	Standard	Standard	Option	Option
BR-M8120	Hydraulic	Option	Option	—	—	Standard	Standard	Option	Option
BR-M7120	Hydraulic	Standard	Option	—	—	Standard	Option	Option	Option
BR-M6220	Hydraulic	Standard	Standard	—	—	—	—	—	—
BR-M6120	Hydraulic	Standard	Option	—	—	—	—	—	—
BR-MT620	Hydraulic	Standard	Option	—	—	—	—	—	—
BR-MT520	Hydraulic	Standard	Standard	—	—	—	—	—	—
BR-MT420	Hydraulic	Standard	Standard	—	—	—	—	—	—
BR-M8020	Hydraulic	Option	—	Standard	Option	—	—	—	—
BR-M820	Hydraulic	—	—	Standard	Standard	—	—	—	—
BR-U8020	Hydraulic	Standard	Option	—	—	Standard	Option	Option	Option

* Reduced rattling noise

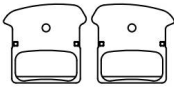
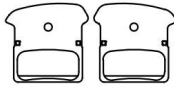
Brake pad for hydraulic disc brake (2-piston) and mechanical disc brake C-653

Pad Shape Type									
		B-type		G-type					
		Wide type		Narrow type					
Model No.		BP-B03S-RX Resin	BP-B05S-RX Resin	BP-G03A-RX Resin	BP-G05A-RX Resin	BP-G03S-RX Resin	BP-G05S-RX Resin	BP-G04S-MX Metal	BP-G04Ti-MX Metal
Characteristics	Modulation	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆
	Power	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★★
	Durability	★★★★★	★★★★★ *1	★★★★★	★★★★★ *1	★★★★★	★★★★★ *1	★★★★★	★★★★★
	Anti-fading	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★★
Silence		★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆
Pad Radiator fin		—	—	—	—	—	—	—	—
High heat insulation		—	—	✓	✓	✓	✓	—	—
Pad Back plate	Titanium	—	—	—	—	—	—	—	✓
	Aluminum	—	—	✓	✓	—	—	—	—
	Stainless steel/ Aluminum	—	—	—	—	—	—	—	—
	Stainless steel	✓	✓	—	—	✓	✓	✓	—
BR-M9200	Hydraulic	—	—	—	—	—	—	—	—
BR-M8200	Hydraulic	—	—	—	Standard	—	—	Standard	—
BR-M9100	Hydraulic	—	—	—	—	—	—	—	—
BR-M9110	Hydraulic	—	—	—	—	—	—	—	—
BR-M8100	Hydraulic	—	—	Standard	Standard	—	—	Standard	—
BR-M8110	Hydraulic	—	—	—	—	—	—	—	—
BR-M7100	Hydraulic	—	—	—	—	Standard	Standard	Standard	—
BR-M7110	Hydraulic	—	—	—	—	—	—	—	—
BR-M6200	Hydraulic	—	—	—	—	—	Standard	Standard	—
BR-M8000	Hydraulic	—	—	Standard	Standard	—	—	Option	—
BR-M6100	Hydraulic	—	—	—	—	Standard	Standard	Option	—
BR-M6000	Hydraulic	—	—	Standard	Standard	—	—	Option	—
BR-MT805	Hydraulic	—	—	—	—	—	—	—	—
BR-MT600	Hydraulic	—	—	—	—	—	Standard	Standard	—
BR-MT500	Hydraulic	Standard	Standard	—	—	—	—	—	—
BR-MT400	Hydraulic	Standard	Standard	—	—	—	—	—	—
BR-MT410	Hydraulic	Standard	Standard	—	—	—	—	—	—
BR-MT200	Hydraulic	Standard	Standard	—	—	—	—	—	—
BR-M375	Mechanical	Standard	Standard	—	—	—	—	—	—
BR-TX805	Mechanical	Standard	Standard	—	—	—	—	—	—
BR-R9270	Hydraulic	—	—	—	—	—	—	—	—
BR-R9170	Hydraulic	—	—	—	—	—	—	—	—
BR-R8170	Hydraulic	—	—	—	—	—	—	—	—
BR-R8070	Hydraulic	—	—	—	—	—	—	—	—
BR-R7170	Hydraulic	—	—	—	—	—	—	—	—
BR-R7070	Hydraulic	—	—	—	—	—	—	—	—
BR-4770	Hydraulic	—	—	—	—	—	—	—	—
BR-RS785	Hydraulic	—	—	Option	Option	—	—	—	—
BR-RS405	Hydraulic	—	—	—	—	—	—	—	—
BR-RX820	Hydraulic	—	—	—	—	—	—	—	—
BR-RX820-LE	Hydraulic	—	—	—	—	—	—	—	—
BR-RX810	Hydraulic	—	—	—	—	—	—	—	—
BR-RX410	Hydraulic	—	—	—	—	—	—	—	—
BR-RX400	Hydraulic	—	—	—	—	—	—	—	—
BR-UR300	Hydraulic	Standard	Standard	—	—	—	—	—	—
BR-S7000	Hydraulic	—	—	—	—	Standard	Standard	—	—
BR-RS305	Mechanical	—	—	—	—	—	—	—	—
BR-R317	Mechanical	—	—	Standard	Standard	—	—	—	—
BR-U8000	Hydraulic	—	—	Standard	Standard	—	—	Option	—
BR-U8010	Hydraulic	—	—	—	—	—	—	—	—
BR-U6030	Hydraulic	—	Standard	—	—	—	—	—	—

*1 "05" pad is more durable than "03" pad in the same type by 40%

Pad Shape Type							
		K-type					
		Narrow type					
Model No.		BP-K03S-RX Resin	BP-K05S-RX Resin	BP-K03Ti-RX Resin	BP-K05Ti-RX Resin	BP-K04S-MX Metal	BP-K04Ti-MX Metal
Characteristics	Modulation	★★★★★	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆
	Power	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★★
	Durability	★★★★★	★★★★★*1	★★★★★	★★★★★*1	★★★★★	★★★★★
	Anti-fading Silence	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★★
Pad Radiator fin		—	—	—	—	—	—
High heat insulation		✓	✓	✓	✓	—	—
Pad Back plate	Titanium	—	—	✓	✓	—	✓
	Aluminum	—	—	—	—	—	—
	Stainless steel/ Aluminum	—	—	—	—	—	—
	Stainless steel	✓	✓	—	—	✓	—
BR-M9200	Hydraulic	—	—	—	Standard	—	Standard
BR-M8200	Hydraulic	—	—	—	—	—	—
BR-M9100	Hydraulic	—	—	Standard	Standard	—	Standard
BR-M9110	Hydraulic	—	—	Standard	Standard	—	Standard
BR-M8100	Hydraulic	—	—	—	—	—	—
BR-M8110	Hydraulic	Standard	Standard	—	—	Standard	—
BR-M7100	Hydraulic	—	—	—	—	—	—
BR-M7110	Hydraulic	Standard	Standard	—	—	Standard	—
BR-M6200	Hydraulic	—	—	—	—	—	—
BR-M8000	Hydraulic	—	—	—	—	—	—
BR-M6100	Hydraulic	—	—	—	—	—	—
BR-M6000	Hydraulic	—	—	—	—	—	—
BR-MT805	Hydraulic	—	Standard	—	—	Standard	—
BR-MT600	Hydraulic	—	—	—	—	—	—
BR-MT500	Hydraulic	—	—	—	—	—	—
BR-MT400	Hydraulic	—	—	—	—	—	—
BR-MT410	Hydraulic	—	—	—	—	—	—
BR-MT200	Hydraulic	—	—	—	—	—	—
BR-M375	Mechanical	—	—	—	—	—	—
BR-TX805	Mechanical	—	—	—	—	—	—
BR-R9270	Hydraulic	—	—	Standard	Standard	—	Option
BR-R9170	Hydraulic	—	—	Standard	Standard	—	Option
BR-R8170	Hydraulic	Standard	Standard	—	—	—	—
BR-R8070	Hydraulic	Standard	Standard	—	—	Option	—
BR-R7170	Hydraulic	Standard	Standard	—	—	—	—
BR-R7070	Hydraulic	Standard	Standard	—	—	Option	—
BR-4770	Hydraulic	Standard	Standard	—	—	Standard	—
BR-RS785	Hydraulic	—	—	—	—	—	—
BR-RS405	Hydraulic	Standard	Standard	—	—	—	—
BR-RX820	Hydraulic	Standard	Standard	—	—	—	—
BR-RX820-LE	Hydraulic	Standard	Standard	—	—	—	—
BR-RX810	Hydraulic	Standard	Standard	—	—	Option	—
BR-RX410	Hydraulic	—	Standard	—	—	—	—
BR-RX400	Hydraulic	Standard	Standard	—	—	Option	—
BR-UR300	Hydraulic	—	—	—	—	—	—
BR-S7000	Hydraulic	—	—	—	—	—	—
BR-RS305	Mechanical	Standard	Standard	—	—	—	—
BR-R317	Mechanical	—	—	—	—	—	—
BR-U8000	Hydraulic	—	—	—	—	—	—
BR-U8010	Hydraulic	—	Standard	—	—	—	—
BR-U6030	Hydraulic	—	—	—	—	—	—

*1 "05" pad is more durable than "03" pad in the same type by 40%

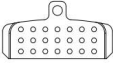
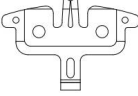
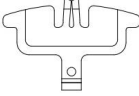
Pad Shape Type							
		J-type			L-type		
		Narrow type			Narrow type		
Model No.		BP-J03A-RF	BP-J05A-RF	BP-J04C-MF	BP-L03A-RF	BP-L05A-RF	BP-L04C-MF
		Resin	Resin	Metal	Resin	Resin	Metal
Characteristics	Modulation	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★☆
	Power	★★★★☆	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★★
	Durability	★★★★★	★★★★★*1	★★★★★	★★★★★	★★★★★*1	★★★★★
	Anti-fading	★★★★☆	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★★
	Silence	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★☆
Pad Radiator fin		✓	✓	✓	✓	✓	✓
High heat insulation		✓	✓	—	✓	✓	—
Pad Back plate	Titanium	—	—	—	—	—	—
	Aluminum	✓	✓	—	✓	✓	—
	Stainless steel/ Aluminum	—	—	✓	—	—	✓
	Stainless steel	—	—	—	—	—	—
BR-M9200	Hydraulic	—	—	—	—	—	—
BR-M8200	Hydraulic	—	Option	Option	—	—	—
BR-M9100	Hydraulic	—	—	—	—	—	—
BR-M9110	Hydraulic	—	—	—	—	—	—
BR-M8100	Hydraulic	Option	Option	Option	—	—	—
BR-M8110	Hydraulic	—	—	—	Option	Option	Option
BR-M7100	Hydraulic	Option	Option	Option	—	—	—
BR-M7110	Hydraulic	—	—	—	Option	Option	Option
BR-M6200	Hydraulic	—	Option	—	—	—	—
BR-M8000	Hydraulic	Standard	Standard	Option	—	—	—
BR-M6100	Hydraulic	Standard	Standard	—	—	—	—
BR-M6000	Hydraulic	Standard	Standard	—	—	—	—
BR-MT805	Hydraulic	—	—	—	—	Option	Option
BR-MT600	Hydraulic	—	Option	—	—	—	—
BR-MT500	Hydraulic	—	—	—	—	—	—
BR-MT400	Hydraulic	—	—	—	—	—	—
BR-MT410	Hydraulic	—	—	—	—	—	—
BR-MT200	Hydraulic	—	—	—	—	—	—
BR-M375	Mechanical	—	—	—	—	—	—
BR-TX805	Mechanical	—	—	—	—	—	—
BR-R9270	Hydraulic	—	—	—	Standard	Standard	Option
BR-R9170	Hydraulic	—	—	—	Standard	Standard	Option
BR-R8170	Hydraulic	—	—	—	Standard	Standard	Option
BR-R8070	Hydraulic	—	—	—	Standard	Standard	Option
BR-R7170	Hydraulic	—	—	—	Standard	Standard	Option
BR-R7070	Hydraulic	—	—	—	Standard	Standard	Option
BR-4770	Hydraulic	—	—	—	Option	Option	—
BR-RS785	Hydraulic	Standard	Standard	Standard	—	—	—
BR-RS405	Hydraulic	—	—	—	Option	Option	—
BR-RX820	Hydraulic	—	—	—	Standard	Standard	Option
BR-RX820-LE	Hydraulic	—	—	—	Standard	Standard	Option
BR-RX810	Hydraulic	—	—	—	Standard	Standard	Option
BR-RX410	Hydraulic	—	—	—	—	Standard	Option
BR-RX400	Hydraulic	—	—	—	Standard	Standard	Option
BR-UR300	Hydraulic	—	—	—	—	—	—
BR-S7000	Hydraulic	—	—	—	—	—	—
BR-RS305	Mechanical	—	—	—	Option	Option	—
BR-R317	Mechanical	—	—	—	—	—	—
BR-U8000	Hydraulic	Option	Option	—	—	—	—
BR-U8010	Hydraulic	—	—	—	—	Standard	—
BR-U6030	Hydraulic	—	—	—	—	—	—

*1 "05" pad is more durable than "03" pad in the same type by 40%

Compatibility of brake calipers and spacers with different rotor thicknesses when used in combination

C-808

5. Compatibility

Brake caliper	Rotor thickness (mm)	Bleeding spacer		Pad spacer	
		Standard for 2.2 mm rotor	Standard for 1.75 mm rotor	Standard for 2.2 mm rotor	Standard for 1.75 mm rotor
		 Color: White	 Color: Yellow	 Color: White	 Color: Orange
BR-M9220 / BR-M8220 / BR-M6220 / BR-MT620	2.2	✓	-	✓	-
	1.75	✓	-	✓	✓
BR-M9120 / BR-M8120 / BR-M8020 / BR-M7120 / BR-M6120 / BR-MT520 / BR-MT420 / BR-U8020 / BR-M820	2.2	-	-	-	-
	1.75	-	✓	-	✓

Disc brake mount adapter

C-193

How to read Model No. C-194

(1) (2) (3) (4) (5) (6)
S M - M A - F 203 S / P

(1)	Small parts
(2)	Mount adapter
(3)	F = Front and Rear * R = Rear
(4)	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 rotor size description is also different. Refer to [C-195](#).
** Rotor size descriptions are for the 160 mm direct post mount and International A standard forks and frames. Refer to [C-195](#) for other mount types.

Application table for adapter C-195

For post mount brake caliper

Fork and frame mount type			Rotor size					
			ø140 mm	ø160 mm	ø180 mm	ø200 mm	ø203 mm	ø220 mm
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-F220P/PM	SM-MA-F203P/P	-
		180 mm direct	-	-	Direct mount	SM-MA-F220P/PL2	SM-MA90-F203P/PM SM-MA-F203P/PM	SM-MA-F220P/PM
		200 mm direct	-	-	-	Direct mount	SM-MA-F203P/PL2	SM-MA-F220P/PL2
		203 mm direct	-	-	-	-	Direct mount	SM-MA-F220P/PL
	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-F220P/PM	SM-MA-F203P/P	-
		180 mm direct	-	-	Direct mount	SM-MA-F220P/PL2	SM-MA90-F203P/PM SM-MA-F203P/PM	SM-MA-F220P/PM
		200 mm direct	-	-	-	Direct mount	SM-MA-F203P/PL2	SM-MA-F220P/PL2
		203 mm direct	-	-	-	-	Direct mount	SM-MA-F220P/PL
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 ø140/160	Front	-	SM-MA-F140P/D	SM-MA-F160P/D	-	-	-	-
	Rear	-	SM-MA-R140P/D	SM-MA-R160P/D	-	-	-	-
Flat mount ø160/180	Front	-	-	-	-	-	-	-
	Rear	-	-	-	-	-	-	-

For flat mount brake caliper

Fork and frame mount type			Rotor size		
			ø140 mm	ø160 mm	ø180 mm
Flat mount	ø140/160	Front	With Y8N230000* on product	With Y8N230000* on product	-
		Rear	Direct mount	SM-MA-R160D/D	-
	ø160/180	Front	-	With Y8N230000* on product	With Y8N230000* on product
		Rear	-	Direct mount	SM-MA-R160D/D
Flat mount BR-UR300	ø140/160	Front	-	Direct mount	-
		Rear	-	Direct mount	-
	ø160/180	Front	-	-	Direct mount
		Rear	-	-	Direct mount

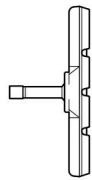
* SHIMANO easy flip-flop bracket system which allow 1 bracket to be compatible with 2 rotor size.

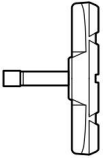
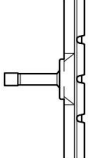
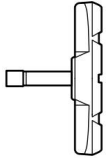
Rim brake

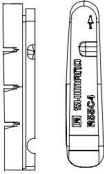
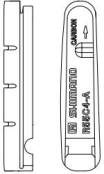
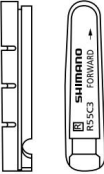
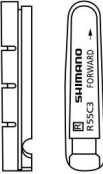
C-200

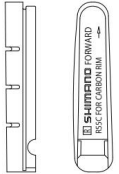
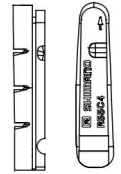
Brake / Shoe line-up

C-201

Model No.	M70R2	M70R2 (Severe Condition Shoes)	M70T3	M70T4	M70CT4 (Severe Condition Shoes)
Brake shoe shape					
Cartridge type	✓	✓	-	-	✓
Recommended rim	Aluminum	Aluminum	Alumite only	Aluminum	Aluminum
Characteristics	DRY Power	★★★★★	★★★★★	★★★★★	★★★★★
	WET Power	★★★★★	★★★★★	★★★★★	★★★★★
	Silence	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-fading	★★★★★	★★★★★	★★★★★	★★★★★
	Durability (on road)	★★★★★	★★★★★	★★★★★	★★★★★
	Durability (muddy condition)	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-rim attack	★★★★★	★★★★★	★★★★★	★★★★★
	BR-T610	-	-	Option	Standard
	BR-T4000	-	-	-	-
	BR-MX70	-	-	Option	-
	BR-R353	-	-	Option	-

Model No.	M65T3	M65T4	S70C	S70C (Severe Condition Shoes)	S70T	S65T
Brake shoe shape						
Cartridge type	-	-	✓	✓	-	-
Recommended rim	Alumite only	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Characteristics	DRY Power	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	WET Power	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Silence	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-fading	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Durability (on road)	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Durability (muddy condition)	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-rim attack	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	BR-T610	-	Standard	-	Option	-
	BR-T4000	Option	-	-	-	Standard
	BR-MX70	-	Standard	-	-	-
	BR-R353	-	-	-	Standard	-

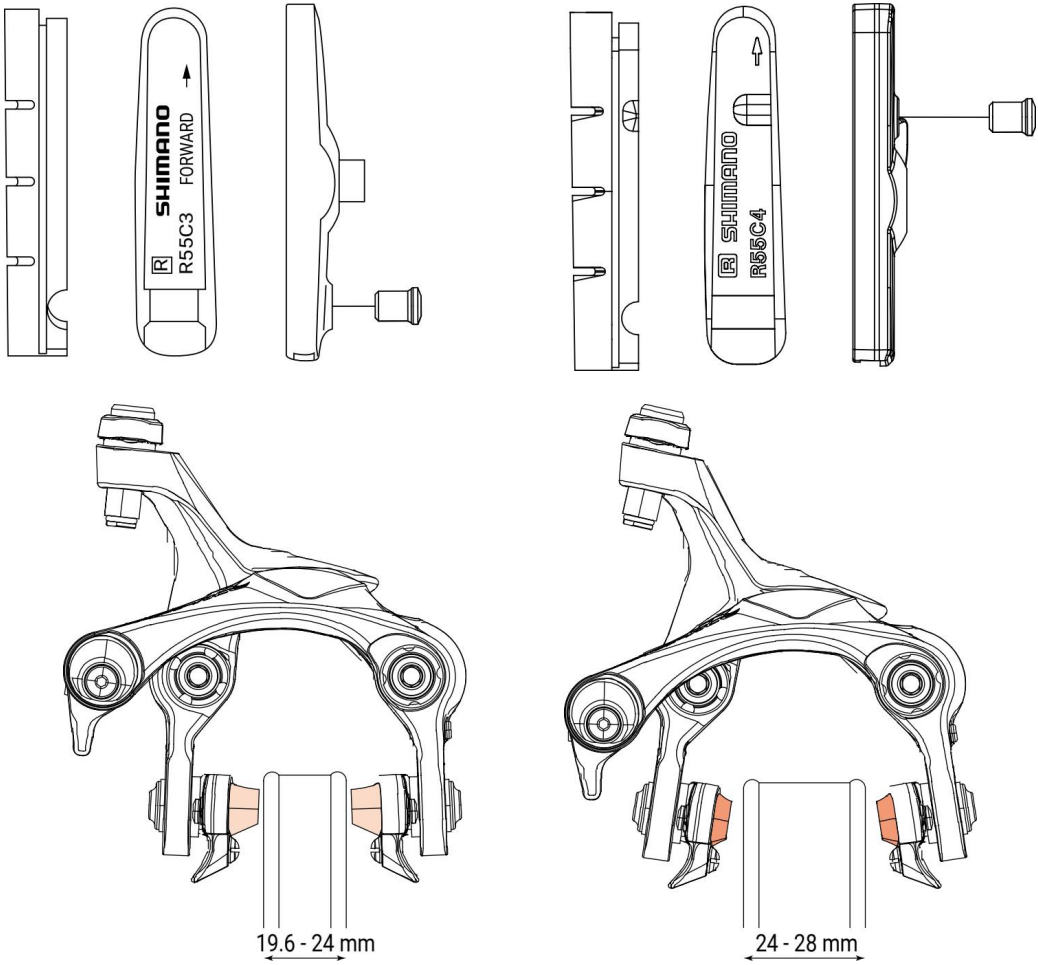
Model No.	R55C4	R55C4 FOR CARBON RIM	R55C4-A FOR CARBON RIM	R55C2	R55C3
Brake shoe shape					
Cartridge type	✓	✓	✓	✓	✓
Recommended rim	Aluminum	Carbon	Carbon	Aluminum	Aluminum
Characteristics	DRY Power	★★★★★	★★★★★	★★★★★	★★★★★
	WET Power	★★★★☆	★★★★☆	★★★★☆	★★★★☆
	Silence	★★★★☆	★★★★☆	★★★★☆	★★★★☆
	Anti-fading	★★★★★	★★★★★	★★★★★	★★★★★
	Durability (on road)	★★★★★	★★★★★	★★★★★	★★★★★
	Durability (muddy condition)	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-rim attack	★★★★☆	★★★★☆	★★★★☆	★★★★☆
	BR-R9200	Standard	Option	-	-
	BR-R9210	Standard	Option	-	-
	BR-R9100	Standard	Option	-	-
	BR-R9110	Standard	Option	-	-
	BR-R8100	Standard	Option	-	-
	BR-R8110	Standard	Option	-	-
	BR-RS811-R	Standard	Option	-	-
	BR-R8000	Standard	Option	-	-
	BR-R8010	Standard	Option	-	-
	BR-R7000	Standard	Option	-	-
	BR-R7010	Standard	Option	-	-
	BR-4700	-	-	-	-
	BR-R3000	-	-	-	-
	BR-R2000	-	-	-	-
	BR-CX50	-	-	-	-
	BR-R561	-	-	-	Standard
	BR-R451	-	-	-	-

Model No.	R55C+1	R55CT4	M50T	R50T	R50T2	R50T4	R50T5
Brake shoe shape							
Cartridge type	✓	✓	-	-	-	-	-
Recommended rim	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Characteristics	DRY Power	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	WET Power	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
	Silence	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
	Anti-fading	★★★★★	★★★★☆	★★★★☆	★★★★★	★★★★☆	★★★★★
	Durability (on road)	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★★
	Durability (muddy condition)	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
	Anti-rim attack	★★★★★	★★★★☆	★★★★☆	★★★★★	★★★★☆	★★★★☆
	BR-R9200	-	Option	-	-	-	-
	BR-R9210	-	Option	-	-	-	-
	BR-R9100	-	Option	-	-	-	-
	BR-R9110	-	Option	-	-	-	-
	BR-R8100	-	Option	-	-	-	-
	BR-R8110	-	Option	-	-	-	-
	BR-RS811-R	-	Option	-	-	-	-
	BR-R8000	-	Option	-	-	-	-
	BR-R8010	-	Option	-	-	-	-
	BR-R7000	-	Option	-	-	-	-
	BR-R7010	-	Option	-	-	-	-
	BR-4700	-	-	-	-	Option	Standard
	BR-R3000	-	-	-	-	Option	Standard
	BR-R2000	-	-	-	Standard	Option	Standard
	BR-CX50	-	-	-	Standard	-	-
	BR-R561	-	Option	-	-	-	-
	BR-R451	-	-	-	Standard	-	-

Brake shoe recommendation to rim width

C-202

5. Compatibility



Model No.	Rim width
R55C4 / R55C4 for Carbon rim	19.6 - 24 mm
R55C3 / R55C3 for Carbon rim	
R55C4-A for Carbon rim	24 - 28 mm

Cable System

C-605

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

Series	Brake with polymer-coated brake cable	
DURA-ACE	BR-R9200	✓
	BR-R9210	
	BR-R9100	
	BR-R9110	
ULTEGRA	BR-R8100	✓
	BR-R8110	
	BR-RS811-R	
	BR-R8000	
	BR-R8010	
SHIMANO 105	BR-R7000	✓
	BR-R7010	
	BR-5810	
	BR-5700	
TIAGRA	BR-4700	✓
SORA	BR-R3000	✓
SHIMANO CLARIS	BR-R2000	✓
Others		-

C-306

V-BRAKE and Roller brake

C-465

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-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-R463 with SM-PM40 BR-R353 with SM-PM70	BR-C6061-F BR-C6060-F BR-C6051-F BR-C6050-F BR-C6001 BR-C6000 BR-C3011 BR-C3010 BR-C3001 BR-C3000
V-BRAKE Levers (2-finger)				
ST-M4000 ST-EF41 ST-TX800 ST-M310 ST-EF510 ST-EF500 ST-EF65	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-R780 BL-4700 BL-R3000 BL-R2000	✓	✓	NOTE
V-BRAKE lever with switch				
ST-EF65 (4-finger) ST-EF510 (4-finger) ST-EF500 (4-finger) BL-C6000			✓	NOTE
BL-C6010 SB-C6000-8 SB-C3000-7				✓

* POWER MODULATOR must be used for front brake



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

NOTE

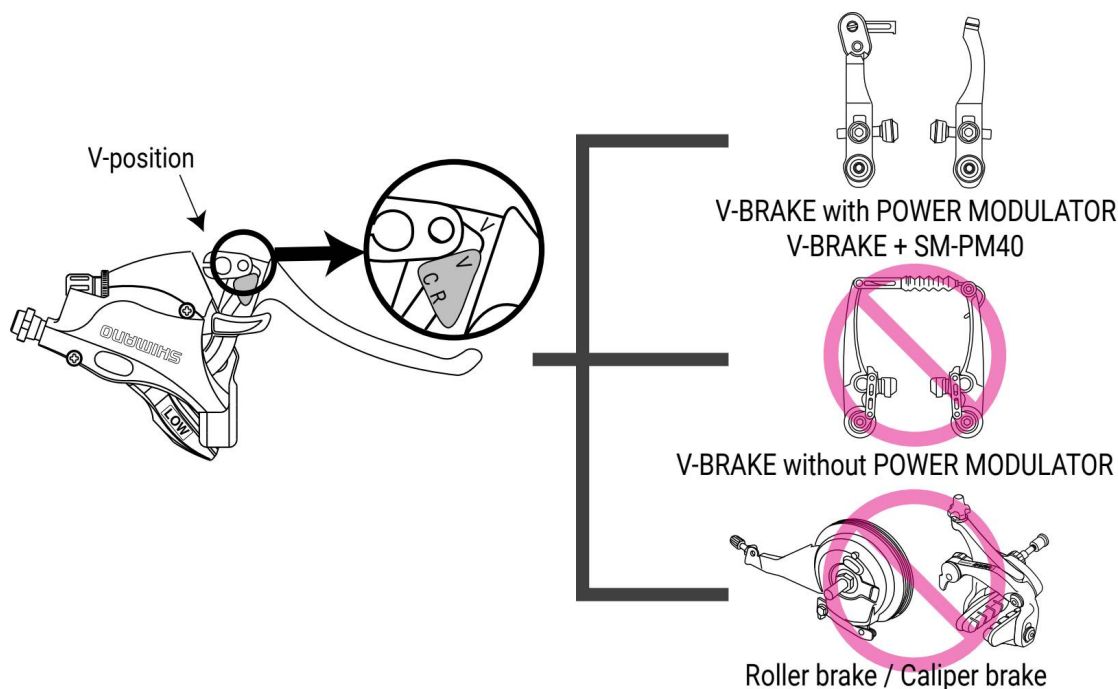
This combination will not provide the sufficient amount of braking force.

Brake lever with switch compatibility

C-467

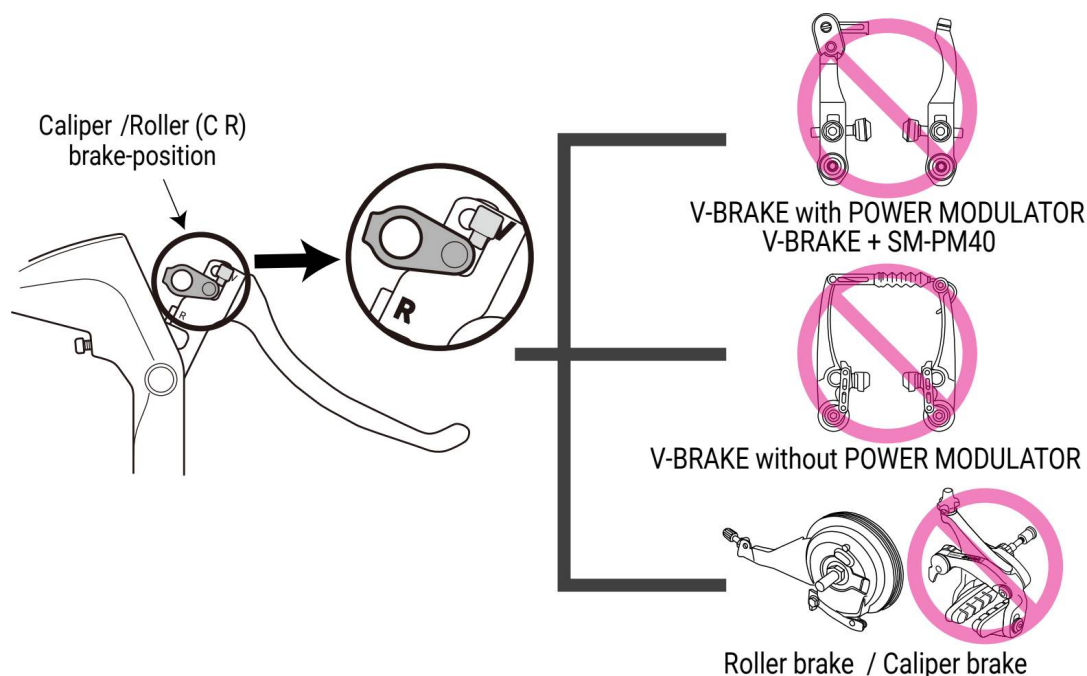
Four finger brake levers such as brake levers are equipped with a switch to change between the V-BRAKE with modulator mode (for example with SM-PM40) and the caliper brake or roller brake mode.

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

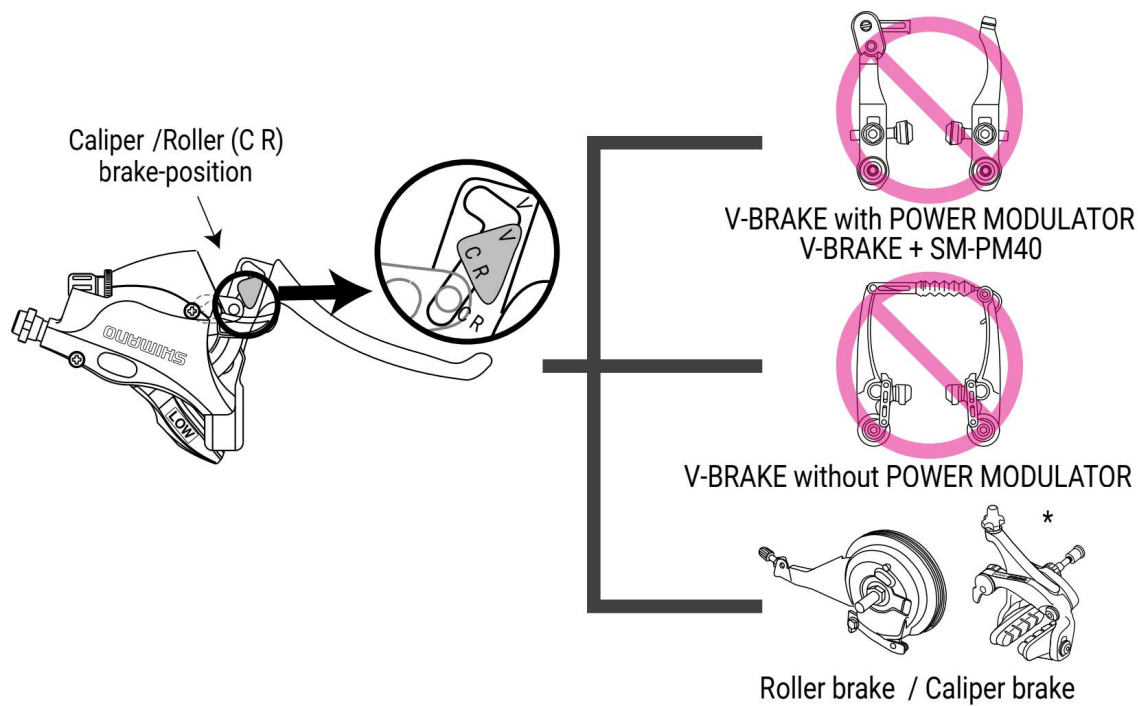


For Caliper brake / Roller brake C-469

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.

Cassette

C-544

FREEHUB and cassette spline compatibility

C-731

The table below does not include LINKGLIDE cassette. See [C-649](#) for LINKGLIDE cassette.

FREEHUB			Compatible cassette type					
Free unit type	Number of effective spline teeth	Outer body length (mm)	MTB		ROAD		All	
			12-speed	11-speed	12-speed	11-speed	10/9/8-speed	7-speed
MICRO SPLINE	23	26	✓	-	-	-	-	-
HG spline L2 (ROAD 12-speed dedicated)	18	37.65	-	-	✓	-	-	-
HG spline L (ROAD 12/11-speed)	9	36.75	-	✓ *1	✓	✓ *3	✓ *2	-
HG spline M (10/9/8/7-speed, MTB 11-speed)	9	34.9	-	✓	-	- *4	✓ *5	✓ *6
HG spline S (7-speed)	9	31	-	-	-	-	-	✓ *7

*1 Need 1.85 mm low spacer.

*2 Need 1.85 mm low spacer and 1.0 mm spacer for the cassette below.

[CS-7900](#) / [CS-7800](#) / [CS-6700](#) / [CS-6600](#) / [CS-5700](#) / [CS-5600](#) (1.0 mm spacer is included)

*3 CS-HG800 / CS-HG700 / CS-RS400 of ROAD 11-speed are compatible with HG spline L by installing 1.85 mm spacer.

*4 CS-HG800 / CS-HG700 / CS-RS400 of ROAD 11-speed are compatible with HG spline M.

*5 Need 1.0 mm spacer for the 10-speed ROAD cassettes below.

[CS-7900](#) / [CS-7800](#) / [CS-6700](#) / [CS-6600](#) / [CS-5700](#) / [CS-5600](#)

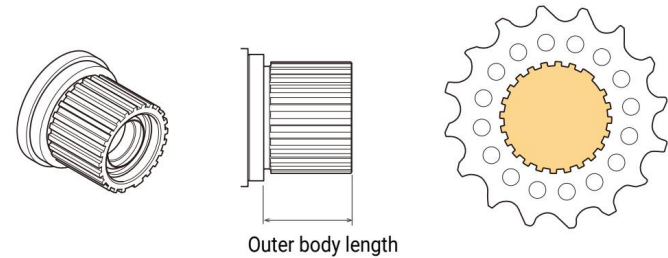
*6 Only CS-HG210-7 and CS-HG400-7 are compatible.

*7 Only CS-HG41-7, CS-HG200-7 and CS-HG20-7 are compatible.

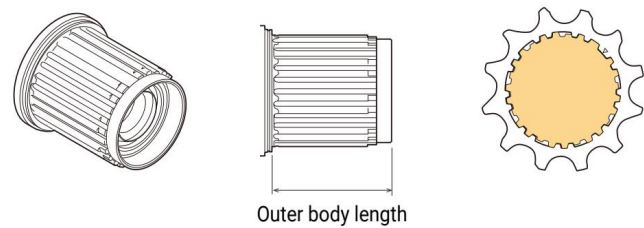
Outer body length

Outer body length is length from the contact surface of the cassette of the free unit to the tip of the free unit.

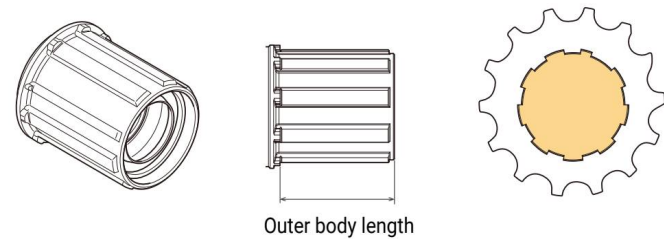
MICRO SPLINE



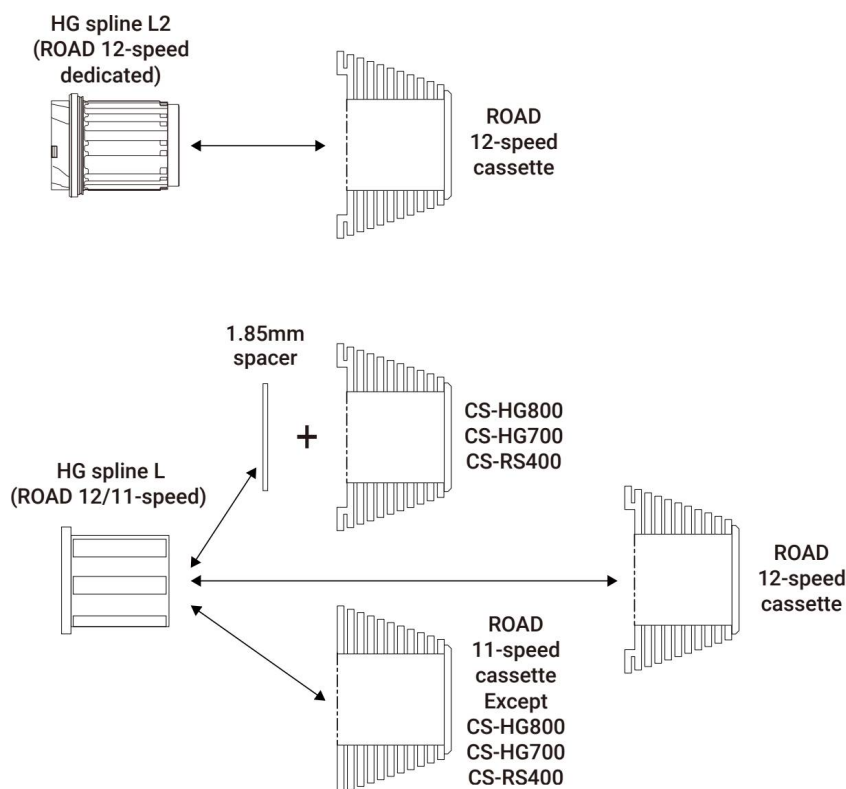
HG spline L2



HG spline L/M/S

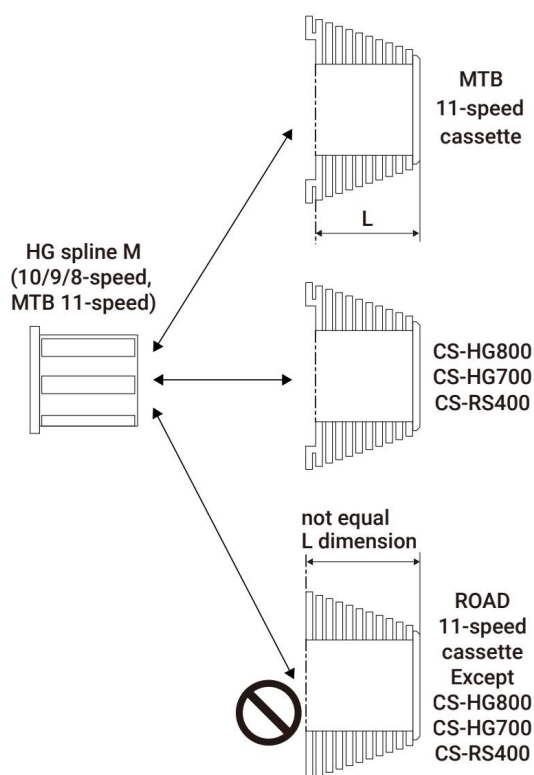


ROAD 12/11-speed FREEHUB compatibility



MTB 11-speed FREEHUB compatibility

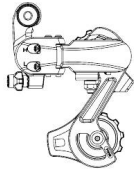
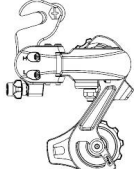
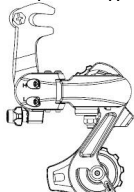
MTB 11-speed wheel and FREEHUB have same spline shape with 10, 9, 8-speed FREEHUB.



7-speed rear derailleur and FREEHUB compatibility

C-817

5. Compatibility

Type of rear derailleur	Type of compatible derailleur hanger and dropout	Free unit type of FREEHUB	
		HG spline S	HG spline M
Direct attachment compatible 		✓	✓
Riveted adapter (BMX-track type) compatible 		✓	-
Riveted adapter (ROAD type) compatible 		✓	-

Compatibility between rear derailleur and cassette gear teeth [ROAD, Gravel, METREA]

C-254

12-speed C-648

Gear teeth	RD-R9250	RD-R8150	RD-R7100	RD-R7150
11-30T	✓	✓	-	-
11-34T	✓	✓	✓	✓
11-36T	-	-	✓	✓

Gear teeth	RD-RX820	RD-RX822	RD-RX822	RD-RX825	RD-RX827	RD-RX717
	- Front double	GS Front single	SGS Front single	- Front double	SGS Front single	SGS Front single
10-45T	-	✓	-	-	-	-
10-51T	-	-	✓	-	✓	✓
11-34T	✓	-	-	✓	-	-
11-36T	✓	-	-	✓	-	-

11-speed C-255

Gear teeth	RD-R9100 RD-R9150	RD-R8000 RD-R8050		RD-R7000		RD-R4000	RD-9000
	-	SS	GS Front double	SS	GS Front double	-	SS
11-23T	-	-	-	-	-	-	✓
11-25T	✓	✓	-	-	-	-	✓
11-28T	✓	✓	✓	✓	✓	-	✓
11-30T	✓	✓	✓	✓	✓	-	-
11-32T	-	-	✓	-	✓	-	-
11-34T	-	-	✓	-	✓	-	-
11-36T	-	-	-	-	-	✓	-
11-40T	-	-	-	-	-	-	-
11-42T	-	-	-	-	-	-	-
12-25T	✓	✓	-	✓	-	-	✓
12-28T	✓	✓	✓	-	✓	-	✓
14-28T	✓	✓	-	✓	-	-	✓

Gear teeth	RD-6800 RD-6870 RD-5800		RD-RX800 RD-RX805	RD-RX810 RD-RX815	RD-RX812 RD-RX817	RD-U5000-SS
	SS	GS Front double	GS Front double	Closer Front double	Wider Front single	SS
11-23T	✓	-	-	-	-	-
11-25T	✓	-	-	-	-	-
11-28T	✓	✓	✓	-	-	✓
11-30T	-	✓	✓	✓	-	✓
11-32T	-	✓	✓	✓	-	✓
11-34T	-	-	✓	✓	-	-
11-36T	-	-	-	-	-	-
11-40T	-	-	-	-	✓	-
11-42T	-	-	-	-	✓	-
12-25T	✓	-	-	-	-	-
12-28T	✓	✓	-	-	-	-
14-28T	✓	-	-	-	-	-

10-speed C-256

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

LINKGLIDE cassette and FREEHUB compatibility

C-649

5. Compatibility

LINKGLIDE cassette are not compatible with MICRO SPLINE FREEHUB.

Freewheel body type	FREEHUB spec.	Model No.	CS-LG700-11 CS-LG600-11 CS-LG400-11	CS-LG600-10 CS-LG400-10 CS-LG300-10	CS-LG400-9 CS-LG300-9
HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400-7 / CS-HG210-7)	O.L.D. 148 mm, E-THRU type	FH-M8010-B	✓	✓	✓
		FH-M6010-B			
		FH-TC600-HM-B			
		FH-TC500-HM-B			
		FH-MT400-B			
	O.L.D. 141 mm, Quick release type	FH-MT200-B	-	-	-
		FH-QC400-HM-B			
	O.L.D. 150 mm, E-THRU type	FH-M825	✓	✓	✓
	O.L.D. 135 mm, E-THRU type	FH-M820	- *2	✓	✓
	O.L.D. 142 mm, E-THRU type	FH-M8010	-	✓	✓
		FH-M6010			
		FH-MT400			
		FH-TC500-HM	✓	✓	✓
	O.L.D. 135 mm, Quick release type	FH-M9000	-	✓	✓
		FH-M8000			
		FH-M6000			
		FH-M4050			
		FH-M3050			
		FH-RM35			
		FH-TX505-8			
		FH-M756-A			
		FH-M525			
		FH-M475			
		FH-TX506			
		FH-T610			
		FH-T3000			
		FH-TX500-8-QR			
		FH-TX500-8-NT			
		FH-QC400-HM	✓	✓	✓
		FH-QC300-HM			
		FH-M5100			
		FH-QB400-HM			
	O.L.D. 130 mm, Quick release type	FH-RS300	- *2	✓	✓
	O.L.D. 135 mm, Nut type	FH-NN300-HM	✓	✓	✓
HG spline L (ROAD 12/11-speed)	O.L.D. 142 mm, E-THRU type	FH-TC500-HL	✓ *1	✓ *1	✓ *1
		FH-R7070			
		FH-RS770			
		FH-RS470			
	O.L.D. 135 mm, Quick release type	FH-UR600	✓ *1	✓ *1	✓ *1
	O.L.D. 130 mm, Quick release type	FH-R7000	-	✓ *1	✓ *1
		FH-RS400			

*1 Need low spacer (1.85 mm.)

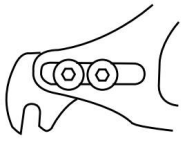
*2 Interference may occur with the rear derailleur and spokes.

ALFINE, NEXUS components

C-470

Available combinations of the dropout, sprocket and crankset for designing the frame

C-471

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	
	T	Thru axle type	
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 CN-HG71, CN-HG40	-
	I	CN-E6070-9, CN-E6090-10	-
	J	CN-HG71, CN-HG40	-

Series	Speed	Brake type	Dropout design	Compatibility	Chain tensioner *5	Sprocket	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	-
				OK	CT-S510	SM-GEAR	G	J	-
		V-BRAKE	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	-
				OK	CT-S510	SM-GEAR	G	J	-
NEXUS	8S / 7S	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	
			C	OK	-	SM-GEAR	G	J	-
			D	OK	CT-S500	CS-S500	F	I	-
				OK	CT-S510	SM-GEAR	G	J	-
	8S / 7S / 3S (except 3D)	Roller brake V-BRAKE	A	OK	-	SM-GEAR	E	H	-
							G	J	-
			B	OK	-	SM-GEAR	E	H	-
							G	J	-
			C	OK	-	SM-GEAR	E	H	-
							G	J	-
			D	NR	CT-S500 (except 3s)	CS-S500	F	I	*2
				OK	CT-S510 (except 3s)	SM-GEAR	G	J	-
		Coaster brake	A	OK	-	SM-GEAR	E	H	-
							G	J	-
			B	OK	-	SM-GEAR	E	H	-
							G	J	-
			C	OK	-	SM-GEAR	E	H	-
							G	J	-
			D	NR	-	-	-	-	*3
				NR	-	-	-	-	*4
	3D	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	
			C	OK	-	SM-GEAR	G	J	-
			D	NR	-	-	-	-	-
		V-BRAKE	A	OK	-	SM-GEAR	G	J	-
			B	OK	-	SM-GEAR	G	J	-
			C	OK	-	SM-GEAR	G	J	-
			D	NR	-	-	-	-	-
	5S for E-BIKE	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	
			C	OK	-	CS-C7000	K	J	-
			D	NR	-	-	-	-	-
			T	OK	-	-	K	-	*6
		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 pedaling.

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

*5 Chain tensioners are not compatible with MU-UR510.

*6 Only thru axle type ([SG-C7010-5D](#) / [SG-C7060-5D](#)) are available.

Compatible size of disc brake rotor depends on the type of torque reaction pin.

- Direct type : $\phi 160$ or larger- Mount adapter type : $\phi 180$ and $\phi 203$

Mechanical internal geared hub / SM (CJ) COMPATIBILITY CHART

C-647

Internal Geared Hub (SG)		Spec.	Small Parts Set (SM)	Cassette Joint (CJ) * CJ is included in SM parts set
ALFINE-11	SG-S7001-11	11s, Disc brake, Premium	SM-S700 SM-S700-BD *1	CJ-S700 CJ-S700-BD *1
ALFINE-8	SG-S7001-8	8s, Disc brake, Premium	SM-S7000-8 SM-S7000-8BD *1	CJ-S7000-8 CJ-S7000-8BD *1
INTER-8	SG-C6011-8R	8s, Roller brake, Premium	SM-8S31 SM-8S31BD *1	CJ-8S20 / CJ-8S40 CJ-8S20BD *1
	SG-C6011-8V	8s, V-BRAKE, Premium		
	SG-C6001-8R	8s, Roller brake		
	SG-C6001-8V	8s, V-BRAKE		
	SG-C6001-8C	8s, Coaster brake		
	SG-C6001-8D	8s, Disc brake		
INTER-7	SG-C3001-7R	7s, Roller brake	SM-7R45	CJ-NX10 / CJ-NX40
		7s, V-BRAKE	SM-7C25 *1	
	SG-C3001-7C	7s, Coaster brake	SM-7C25	CJ-NX10 / CJ-NX40
	SG-C3001-7D	7s, Disc brake	SM-7R45 SM-7C25 *1	CJ-NX10 / CJ-NX40
INTER-5E	SG-C7000-5R	5s, Roller brake, Premium	SM-C7000-5 SM-C7000-5BD *1	CJ-C7000-5 CJ-C7000-5BD *1
	SG-C7000-5V	5s, V-BRAKE, Premium		
	SG-C7000-5C	5s, Coaster brake, Premium		
	SG-C7000-5D	5s, Disc brake, Premium		
	SG-C7002-5CD	5s, Coaster brake & Disc brake		
	SG-C7010-5D	5s, Disc brake, Premium, Thru axle type	SM-C7000-5 *2 SM-C7000-5BD *1*2	CJ-C7000-5 CJ-C7000-5BD *1
INTER-5	SG-5R30 (Japan Only)	5s, Roller brake, Japan only	SM-5S30	CJ-8S20 / CJ-8S40
	SG-5R30-VS (Japan Only)	5s, V-BRAKE, Japan only		
	SG-5R35 (Japan Only)	5s, Roller brake, Alloy body, Japan only		
	SG-5R35-VS (Japan Only)	5s, V-BRAKE, Alloy body, Japan only		
INTER-3	SG-3R42 (Japan Only)	3s, Roller brake, Japan only	SM-3R40	-
	SG-3R40 (Japan Only)	-		
	SG-3R40	3s, Roller brake	SM-3R40	SM-BC03 SM-BC06
	SG-3C41	3s, Coaster brake	SM-3R41	-
	SG-3D55	3s, Disc brake	SM-3D55	SM-BC03 SM-BC06
	SG-3R75	3s, Roller brake, Premium	SM-3S70	CJ-NX10 / CJ-NX40

*1 Dedicated specs for belt drive system

*2 Spec. for [SG-C7010](#)

Sprocket and chain combination

C-608

Series	Sprocket		Chain
	Model No.	Gear thickness (mm)	Model No.
ALFINE	CS-S500	2.0	CN-E6090-10 CN-E6070-9 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

CARGO BIKE related components

C-651

Compatibility for DIN 79010:2020-02

C-672

DIN 79010:2020-02

Fahrräder - Transport- und Lastenfahrrad - Anforderungen und Prüfverfahren für ein- und mehrspurige

Fahrräder

(Cycles - Transportation bikes and cargo bikes - Requirements and test methods for single- and multi-track cycles)

Products		Model No.	DIN 79010:2020-02 (Type 1: Single Track) conformance
BRAKE (BR, RT)	Group #1	BR-M9120 / BR-M8120 / BR-M7120 + RT-MT900 / RT-EM910	YES with conditions (*1)
	Group #2	BR-M9120 / BR-M8120 / BR-M7120 + RT-MT800 / RT-EM810	
	Group #3	BR-M9120 / BR-M8120 / BR-M7120 + SM-RT86	
	Group #4	BR-M6120 + RT-CL300 / SM-RT30 / RT-EM300 / SM-RT66	
	Group #5	BR-MT520 / BR-MT420 + RT-CL300 / SM-RT30 / RT-EM300 / SM-RT66	
HUB (HB, FH, SG)	FH	FH-M**** / MT*** / TX*** / RS*** / UR*** series	YES (*SHIMANO can't guarantee assembled wheel performance. Please confirm wheel performance by bike manufacturer.)
	SG	SG-C7000-5D / SG-C7010-5D / SG-C7050-5D / SG-C7060-5D / SG-C6001-8D / SG-C6061-8D SG-C3001-7D	
	HB	HB-M**** / MT*** / TX*** / RS*** series	
	DH	All	NO
OTHERS	All not mentioned above (DU, CS, CN, RD, FC, etc.)	All	YES No special requirement if compare with ISO/EN4210-2 2015

(*1) conditions

Product Spec requirements

	Brake pad	RT size	Hose length (*Please consider Brake Lever reach adjustment)
Group #1,2,3	Resin pad w/ radiator fin	203 mm (L size)	2200 mm or less (Tire outer diameter = 660 mm or less) 2400 mm or less (Tire outer diameter = 559 mm or less) 2700 mm or less (Tire outer diameter = 406 mm or less)
		180 mm (M size)	1300 mm or less (Tire outer diameter = 660 mm or less) 2000 mm or less (Tire outer diameter = 559 mm or less) 2400 mm or less (Tire outer diameter = 406 mm or less)
Group #4	Resin pad w/o radiator fin	203 mm (L size)	2200 mm or less (Tire outer diameter = 660 mm or less) 2400 mm or less (Tire outer diameter = 559 mm or less) 2700 mm or less (Tire outer diameter = 406 mm or less)
		180 mm (M size)	1300 mm or less (Tire outer diameter = 660 mm or less) 2000 mm or less (Tire outer diameter = 559 mm or less) 2400 mm or less (Tire outer diameter = 406 mm or less)
Group #5	Resin pad w/o radiator fin	203 mm (L size)	3000 mm or less (Tire outer diameter = 660 mm or less)
		180 mm (M size)	

Limitation & adjustment

	RT size	DIN 79010:2020-02 5.5.2.2.2 Weight factor "c" (*2)	Brake lever adjustment
Group #1	203 mm (L size)	c = 1.5	Brake lever reach adjustment might be required to follow minimum braking force value of 5.5.1.3
	180 mm (M size)	c = 1.4	
Group #2	203 mm (L size)	c = 1.4	
	180 mm (M size)	c = 1.3	
Group #3	203 mm (L size)	c = 1.3	
	180 mm (M size)	c = 1.1	
Group #4,5	203 mm (L size)	c = 1.1	
	180 mm (M size)	c = 0.9	

(*2) Refer to DIN 79010:2020-02 5.5.2.2.2 about "c" value.

c: weight factor which is defined by bike design. $c = (AL: \text{axle load}) / (M: 100 \text{ kgf as basic value})$.

For example, axle load is allowed till 150 kgf if $c = 1.5$.

Spoke protector

C-298

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													Spoke protector model					
													Flange diameter of rear hub (FH side)					
													53.8 mm			70.6 mm		
Speed	Model No.	Number of largest sprocket teeth											Spoke hole number			Spoke hole number		
		25T	28T	30T	32T	34T	36T	40T	42T	45T	46T	51T	28H	32H	36H	28H	32H	36H
10-speed	CS-M4100-10	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-
	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	-	-	-	-	-	✓	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG201-9	-	-	-	-	-	✓	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG200-9	-	-	-	-	-	✓	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG400-9	-	-	-	✓	✓	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG201-9	-	-	-	✓	✓	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
8-speed	CS-HG200-9	-	-	-	-	-	✓	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG400-9	-	✓	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	CP-FH76	CP-FH76
	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	-	-	✓	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	-
	CS-HG31-8	-	-	✓	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	-
	CS-HG41-8	-	-	-	✓	✓	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG31-8	-	-	-	-	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
7-speed	CS-HG400-8	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-
	CS-HG300-8	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-
	CS-HG200-8	-	-	-	✓	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG41-7	-	✓	-	-	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG400-7	-	✓	-	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	-
	CS-HG210-7	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
	CS-HG210-7	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7-speed	CS-HG200-7	-	-	-	✓	-	-	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG200-7	-	✓	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	-	-

* Spoke protector is not available for 11/12/13-speed cassette.

** Spoke protector is not available for HG+ 8-speed cassette.

Spoke protector for Road

Speed	Model No.	Number of largest sprocket teeth										Spoke holes number *2			
		21T	23T	24T	25T	26T	27T	28T	30T	32T	34T	24H	28H	32H	36H
8, 9, 10	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	CS-HG400-7	-	-	-	-	-	-	✓	-	-	-	-	-	-	-
	CS-HG210-7	-	-	-	-	-	-	✓	-	-	-	-	-	-	-
	CS-HG200-7	-	-	-	-	-	-	✓	-	-	-	-	-	CP-FH35	CP-FH50
	MF-TZ500-7 MF-TZ510-7 MF-TZ21	-	-	-	-	-	-	✓	-	-	-	-	-	-	CP-HG22/ MF-TZ500-7*1/ MF-TZ21*1

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

*1 w/ spoke protector spec. is available.

*2 Spoke protectors other than MF-TZ500-7 and MF-TZ21 are compatible with freehub with 53.8 mm flange diameter.

Spoke protector compatible with MTB, Gravel wheel

C-299

12-speed

CS-M9200-12, CS-M8200-12, [CS-M7200-12](#), [CS-M6200-12](#)

Cassette		Spoke protector model			
Model No.	Number of largest sprocket teeth				
	45T	51T	WH-M9200	WH-M9220	WH-M8200
CS-M9200-12	✓	✓	CP-WM92A	CP-WM92A	CP-WM92A
CS-M8200-12	✓	✓	CP-WM92A	CP-WM92A	CP-WM92A
CS-M7200-12	-	✓	CP-WM92A	CP-WM92A	CP-WM92A
CS-M6200-12	-	✓	CP-WM92A	CP-WM92A	CP-WM92A

CS-M9101-12, [CS-M9100-12](#), CS-M8100-12, CS-M7100-12, CS-M6100-12

Cassette		Spoke protector model						
Model No.	Number of largest sprocket teeth							
	45T	51T	WH-M8100	WH-M8120	WH-MT620	WH-MT601	WH-MT501	WH-M9000 WH-M9020 WH-M8000 WH-M8020 WH-M8000-B WH-M8020-B
CS-M9101-12	✓	✓	CP-WH28	CP-WH32 (for 10-45T) CP-WH29 (for 10-51T)	CP-WH31 (for 10-45T) CP-WRX8B CP-WH27 (for 10-51T)	CP-WH31 (for 10-45T) CP-WRX8B CP-WH27 (for 10-51T)	CP-WH31 (for 10-45T) CP-WRX8B CP-WH27 (for 10-51T)	-
CS-M9100-12	✓	✓						-
CS-M8100-12	✓	✓						-
CS-M7100-12	✓	✓						-
CS-M6100-12	-	✓	-	-	-	-	-	-

Cassette		Spoke protector model					
Model No.	Number of largest sprocket teeth						
	45T	51T	WH-MT600	WH-MT500	WH-MT35 WH-MT35-275 WH-MT35-29	WH-RX880 (MICRO SPLINE)	WH-RX180 (MICRO SPLINE)
CS-M9101-12	✓	✓	-	-	-	CP-WRX8B	CP-WR18B
CS-M9100-12	✓	✓	-	-	-		
CS-M8100-12	✓	✓	-	-	-		
CS-M7100-12	✓	✓	-	-	-		
CS-M6100-12	-	✓	-	-	-		

11-speed

Cassette							Spoke protector model				
Model No.	Number of largest sprocket teeth										
	40T	42T	45T	46T	50T	51T					
CS-M9001	✓	-	-	-	-	-	WH-M8100	WH-M8120	WH-MT620	WH-MT601	WH-MT501
CS-M8000	✓	✓	-	✓	-	-	-	-	-	-	-
CS-M7000	✓	✓	-	✓	-	-	-	-	-	-	-
CS-M5100-11	-	✓	-	-	-	✓	-	-	-	-	-
CS-LG700-11	-	-	✓	-	✓	-	-	-	-	-	-
CS-LG600-11	-	-	-	-	✓	-	-	-	-	-	-
CS-LG400-11	-	-	✓	-	✓	-	-	-	-	-	-

Cassette							Spoke protector model				
Model No.	Number of largest sprocket teeth										
	40T	42T	45T	46T	50T	51T	WH-RX870	WH-M9000 WH-M9020 WH-M8000 WH-M8020 WH-M8000-B WH-M8020-B	WH-MT600	WH-MT500	WH-MT35 WH-MT35-275 WH-MT35-29
CS-M9001	✓	-	-	-	-	-	CP-WH26 (for 40T or 42T)	CP-WH17-A	CP-WH26	-	-
CS-M8000	✓	✓	-	✓	-	-		CP-WH17-A	CP-WH26	-	-
CS-M7000	✓	✓	-	✓	-	-		CP-WH17-A	CP-WH26	-	-
CS-M5100-11	-	✓	-	-	-	✓		CP-WH17-A (for 42T)	CP-WH26 (for 42T)	-	-
CS-LG700-11	-	-	✓	-	✓	-	-	-	-	-	-
CS-LG600-11	-	-	-	-	✓	-	-	-	-	-	-
CS-LG400-11	-	-	✓	-	✓	-	-	-	-	-	-

10-speed

Cassette									Spoke protector model				
Model No.	Number of largest sprocket teeth												
	32T	34T	36T	39T	42T	43T	46T	48T	WH-M8100	WH-M8120	WH-MT620	WH-MT601	WH-MT501
CS-M4100-10	-	-	-	-	✓	-	✓	-	-	-	-	-	-
CS-M771-10	✓	✓	✓	-	-	-	-	-	-	-	-	-	-
CS-HG81-10	-	✓	✓	-	-	-	-	-	-	-	-	-	-
CS-HG500-10	-	-	-	-	✓	-	-	-	-	-	-	-	-
CS-HG50-10	-	-	✓	-	-	-	-	-	-	-	-	-	-
CS-LG600-10	-	-	-	-	-	✓	-	-	-	-	-	-	-
CS-LG400-10	-	-	-	✓	-	✓	-	✓	-	-	-	-	-
CS-LG300-10	-	-	-	✓	-	-	-	✓	-	-	-	-	-

Cassette									Spoke protector model			
Model No.	Number of largest sprocket teeth											
	32T	34T	36T	39T	42T	43T	46T	48T	WH-M9000 WH-M9020 WH-M8000 WH-M8020 WH-M8000-B WH-M8020-B	WH-MT600	WH-MT500	WH-MT35 WH-MT35-275 WH-MT35-29
	CS-M4100-10	-	-	-	-	✓	-	✓	-	-	-	-
CS-M771-10	✓	✓	✓	-	-	-	-	-	-	CP-WH16	CP-WH21	CP-WH12
CS-HG81-10	-	✓	✓	-	-	-	-	-	-	CP-WH16	CP-WH21	CP-WH12
CS-HG500-10	-	-	-	-	✓	-	-	-	-	-	CP-WH21	CP-WH19
CS-HG50-10	-	-	✓	-	-	-	-	-	-	CP-WH16	CP-WH21	CP-WH12
CS-LG600-10	-	-	-	-	-	✓	-	-	-	CP-WH26	CP-WH21	-
CS-LG400-10	-	-	-	✓	-	✓	-	✓	-	-	-	-
CS-LG300-10	-	-	-	✓	-	-	-	✓	-	-	-	-

9-speed

Model No.	Cassette						Spoke protector model				
	Number of largest sprocket teeth										
	28T	32T	34T	36T	41T	46T	WH-M8100	WH-M8120	WH-MT620	WH-MT601	WH-MT501
CS-HG400-9 CS-HG201-9 CS-HG200-9	-	✓	✓	✓	-	-	-	-	-	-	-
CS-HG400-9	✓	-	-	-	-	-	-	-	-	-	-
CS-LG400-9	-	-	-	✓	✓	✓	-	-	-	-	-
CS-LG300-9	-	-	-	✓	✓	✓	-	-	-	-	-

Model No.	Cassette						Spoke protector model			
	Number of largest sprocket teeth									
	28T	32T	34T	36T	41T	46T	WH-M9000 WH-M9020 WH-M8000 WH-M8020 WH-M8000-B WH-M8020-B	WH-MT600	WH-MT500	WH-MT35 WH-MT35-275 WH-MT35-29
CS-HG400-9 CS-HG201-9 CS-HG200-9	-	✓	✓	✓	-	-	-	-	-	CP-WH12
CS-HG400-9	✓	-	-	-	-	-	-	-	-	CP-WH08
CS-LG400-9	-	-	-	✓	✓	✓	-	-	-	-
CS-LG300-9	-	-	-	✓	✓	✓	-	-	-	-

Spoke protector compatible with ROAD, Gravel, METREA wheel

C-300

5. Compatibility

Model No.	Speed				Number of largest sprocket teeth							
	9	10	11**	12	23T	25T	27T	28T	30T	32T*	34T	36T
WH-R9370-C60 WH-R9370-C50	-	-	-	✓	-	-	-	-	CP-WR93A			
WH-R9370-C36	-	-	-	✓	-	-	-	-	CP-WR93B			
WH-R9370-D	-	-	-	✓	-	-	-	-	CP-WR93C			
WH-R9270-C60	-	-	-	✓	-	-	-	-	CP-WR92C			-
WH-R9270-C50 WH-R9270-C36	-	-	-	✓	-	-	-	-	CP-WR92A			-
WH-R9200-C60 WH-R9200-C50 WH-R9200-C36	-	-	-	✓	-	-	-	-	CP-W124			-
WH-R8170-C60 WH-R8170-C50 WH-R8170-C36	-	-	✓	✓	-	-	-	CP-WR81A				-
WH-RS710-C32 WH-RS710-C46	-	-	✓	✓	-	-	-	CP-WH24				CP-WR71A
WH-R9170-C40	-	✓	✓	-	-	CP-W1460				-	-	
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-RX180 (HG spline L)	-	-	✓	✓	-					CP-WH30	CP-WR18A	
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 (700c/ 650b)	-	-	✓	-	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-RX880 (HG spline L2)	-	-	-	✓	-					CP-WRX8A		
WH-RX870	-	-	✓	✓	-	-	-	-	-	CP-WH30	-	
WH-RX570	-	✓	✓	-	-	CP-WH30					-	
	-	✓	-	-	CP-WH41				CP-WH12	-	-	

* For compact crank set

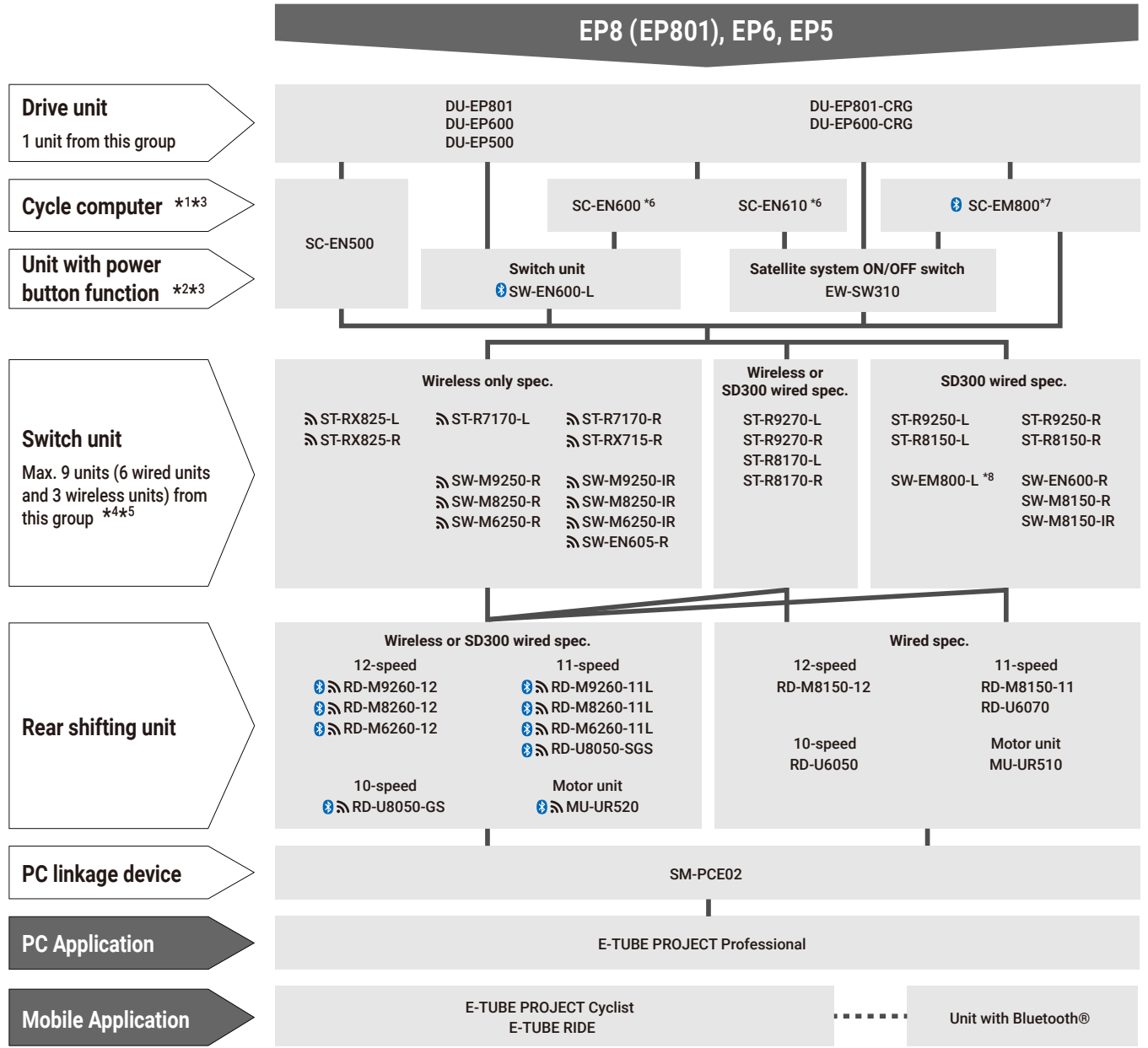
** 11-speed : [CS-R9100](#) / CS-R8000 / CS-R7000 / [CS-6800](#) / [CS-5800](#)

E-BIKE compatibility chartC-431

Compatibility chart for E-BIKE productsC-525

2nd and 1st generation battery management systemC-841

2nd generation (Gen.2) battery management system



Limitation of function

- *1 When system has unit with power button function, cycle computer isn't mandatory.
- *2 When the cycle computer, switch unit, and other units has power ON / OFF function, the unit with power button function isn't mandatory.
- *3 When system has 3rd party CAN cycle computer, SHIMANO cycle computer and the unit with power button function isn't mandatory.
- *4 Switch units are defined by model no. [SW], [ST], and [EW-SW] in this chart.
- *5 The number of connectable wireless units paired by App is limited as follows:
 - DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
 - Switch unit: maximum of one SW-R/IR
- *6 Switch unit is mandatory for assist control.
- *7 When drive unit (US Class 3) is connected, cycle computer can displays main screen (speed and assist bar) only.
- *8 Need to change switch setting by E-TUBE PROJECT to use as shift switch.

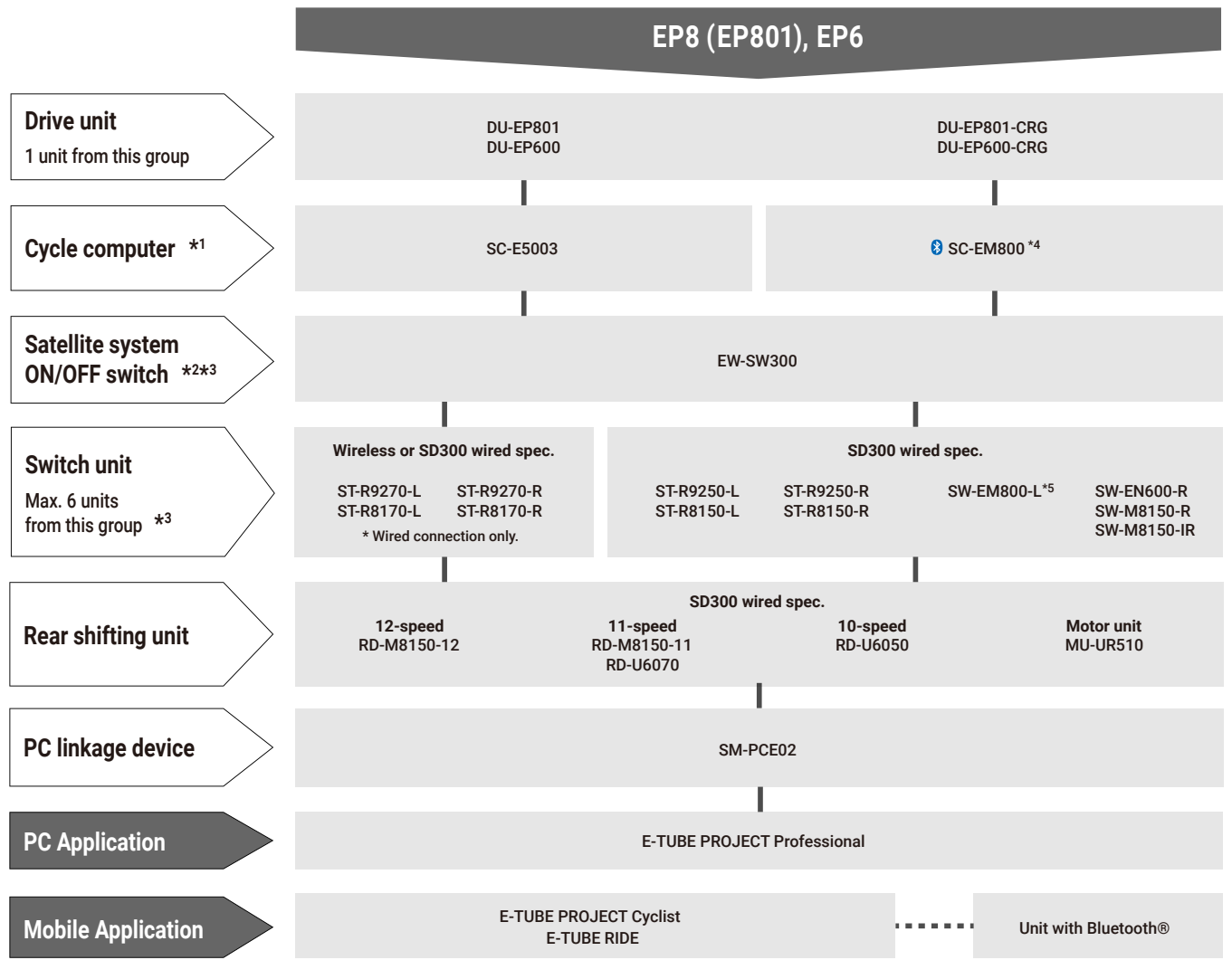
For 2nd generation (Gen.2) battery management system

See [C-511](#) for compatible battery information

Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6

1st generation battery management system for partner manufacturers' battery



Limitation of function

- *1 Cycle computer is mandatory.
- *2 When power on/off function on other unit, satellite power on/off switch isn't mandatory.
- *3 Switch units are defined by model no. [SW], [ST], and [EW-SW] in this chart.
- *4 When drive unit (US Class 3) is connected, cycle computer can displays main screen (speed and assist bar) only.
- *5 Need to change switch setting by E-TUBE PROJECT to use as shift switch.

For 1st generation battery management system for partner manufacturers' battery

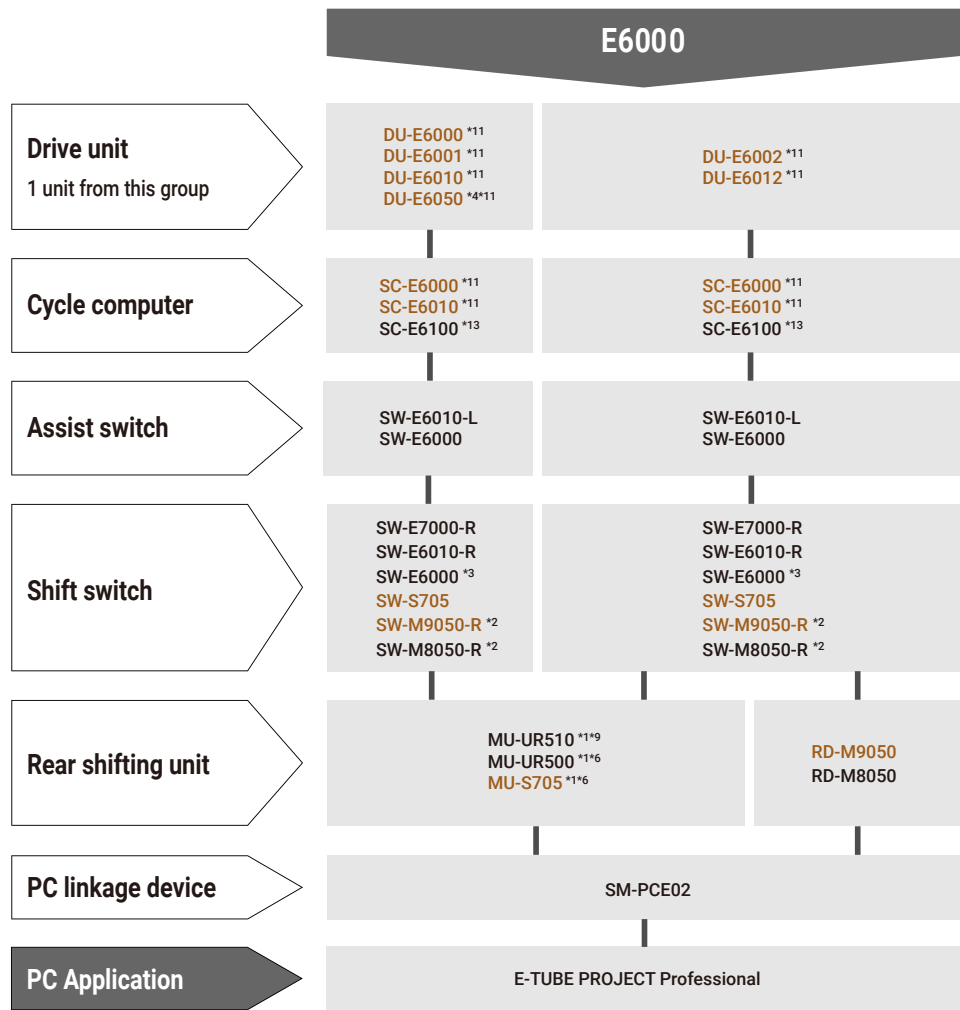
See [C-511](#) for compatible battery information

* This is a compatibility table when using a battery made by a partner manufacturer that ensures compatibility only by updating the firmware.

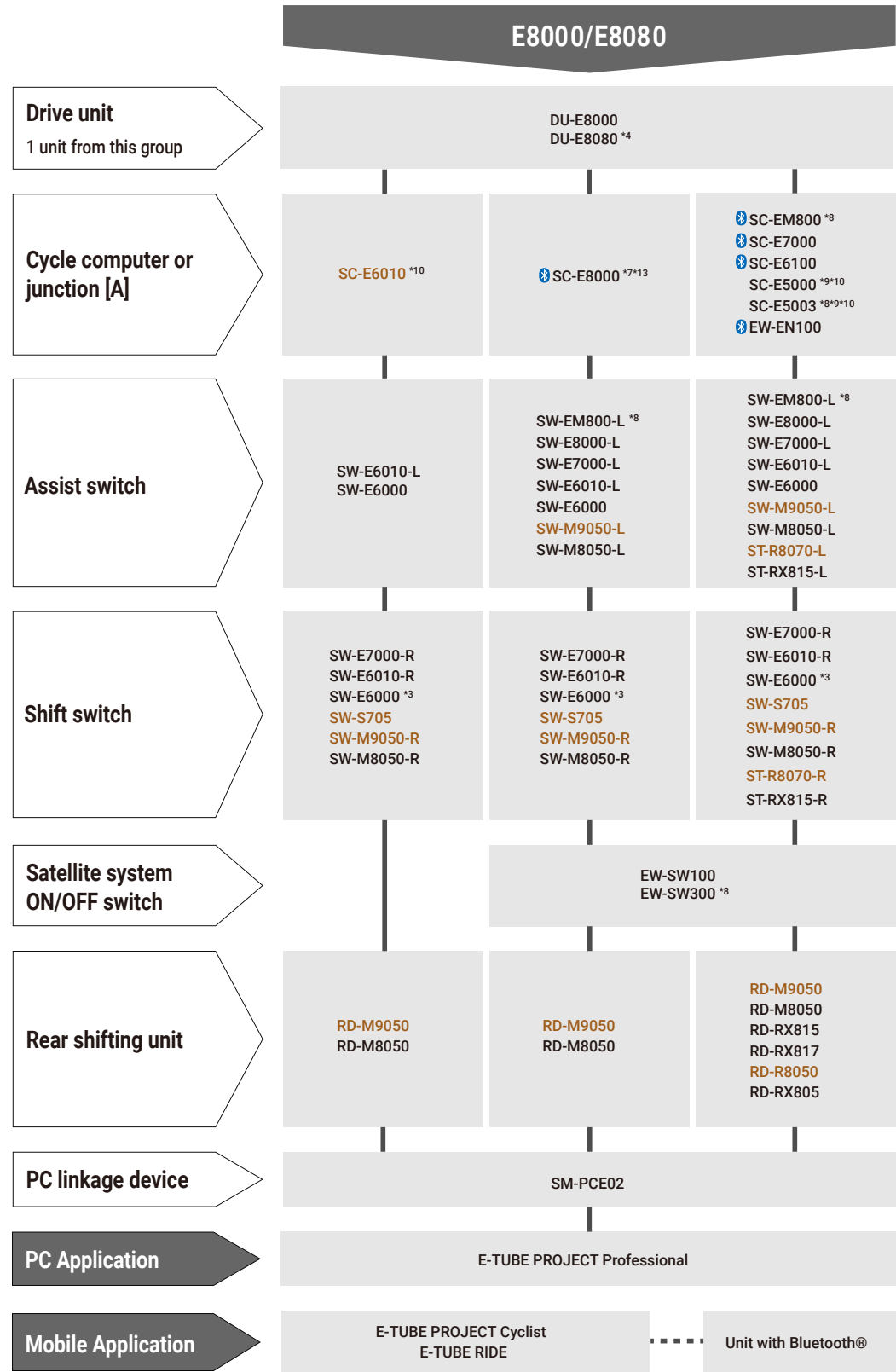
Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6

1st generation battery management system

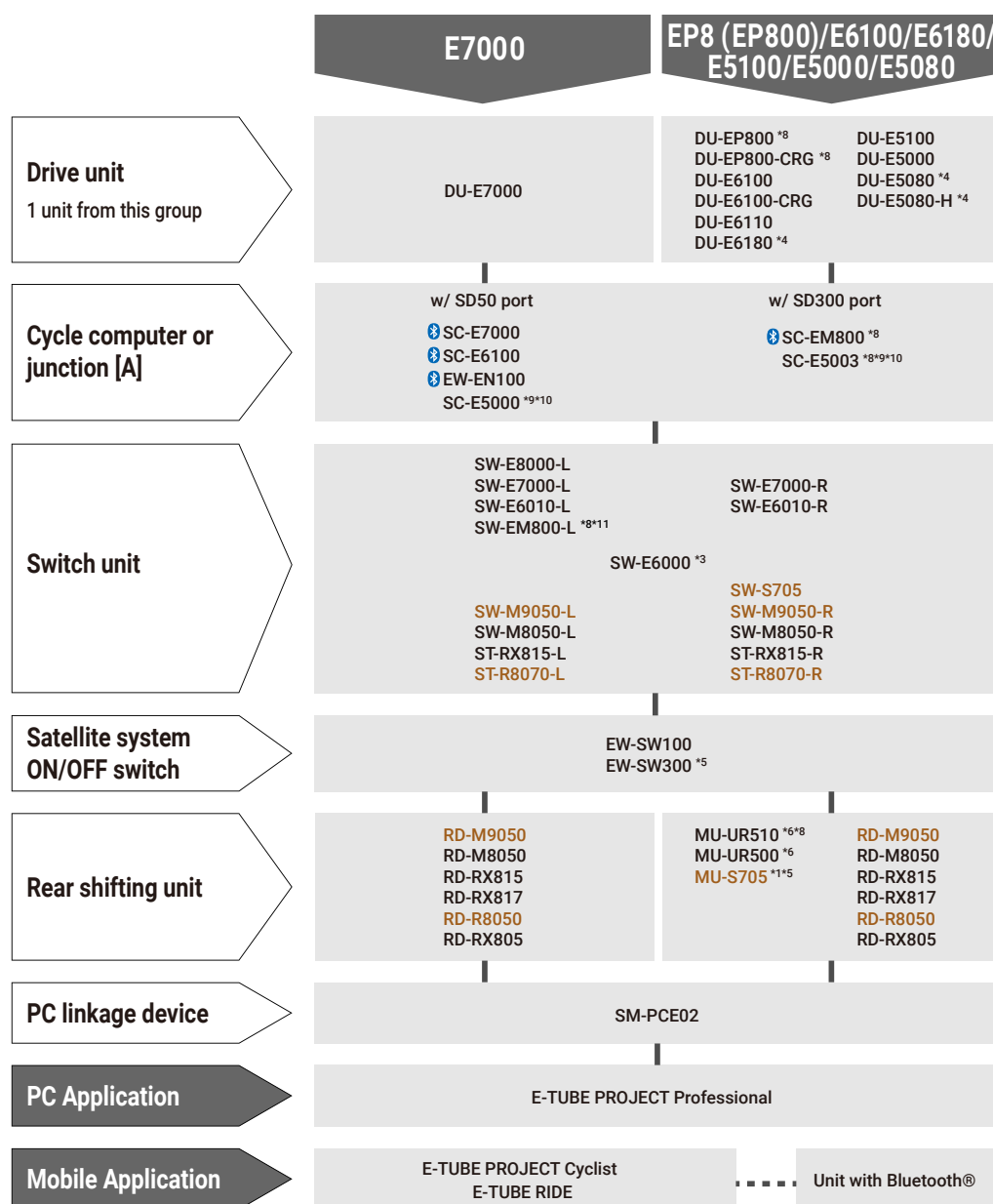


Compatible App version
E-TUBE PROJECT Professional ver.5.4.4



Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6



Limitation of function

- *1 Automatic gear shifting is available only with 8-speed internal geared hubs (Not available with rear derailleurs).
- *2 Not support automatic shift.
- *3 Need to change Switch setting by E-TUBE PROJECT.
- *4 Japanese market only.
- *5 Available only with 11-speed and 8-speed internal geared hubs.
- *6 Automatic gear shifting is available only with 8 speed and 5 speed internal geared hub system. (Not available with Rear Derailleur)
- *7 Not available in Japan market.
- *8 This unit has SD300 port, and needs EW-AD305 for connection with SD50 port unit.
- *9 SC-E5000, SC-E5003 is only for ø22.2 handlebar. Drop handlebar is unavailable.
- *10 Not supported by E-TUBE PROJECT Cyclist.
- *11 To use as a shift switch, the switch settings need to be changed in E-TUBE PROJECT.
- *12 To use SC-E6100, firmware version need to be updated 4.2.0 or later.
- *13 SC-E8000 is not compatible with E-TUBE RIDE App.

For 1st generation battery management system

See [C-511](#) for compatible battery information

Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6

Drivetrain compatibility

C-488

DU-EP801 / DU-EP801-CRG / DU-EP800 / DU-EP800-CRG / DU-EP600 /
DU-EP600-CRG / DU-EP500

C-706

12-speed Rear derailleur spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
HYPERGLIDE+ 12-speed *3 (Di2, Mechanical)	HG 12-speed	HYPERGLIDE+ 12-speed *2	FC-EM900 FC-M8150 FC-EM600 FC-EN500	SM-CRE80-12-SB 34T/36T	56.5	-	CD-EM800-A CD-EM800
				CR-EM800 *1*4 32T	55	-	CD-EM800-A w/o plate CD-EM800 w/o plate
				SM-CRE80-12-B 34T/36T/38T			CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-12-B 36T			
				SM-CRE80-12-B 34T/36T/38T	53	-	CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE70-12-B 36T			
				SM-CRE80-R 47T	50	-	-
				SM-CRE70-12 42T		Double	

*1 For DU-EP800 and DU-EP800-CRG, it is necessary to replace the lock ring to Y7K79801T

*2 Do not use 9-45T cassette for E-BIKE

*3 DU-EP800 and DU-EP800-CRG are not compatible with 12-speed Di2 drivetrain

*4 If the drivetrain includes the CR-EM800 32T, optimal shifting performance may not be attainable at high torque level

11/10/9-speed Rear derailleur spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
LINKGLIDE *1 (Di2, Mechanical)	LINKGLIDE HG 11-speed	LINKGLIDE 11/10/9-speed	FC-EM900 FC-M8150 FC-EM600 FC-EN500	SM-CRE80-B 34T/38T	55	-	CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE70-B 34T			
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80 34T/38T	50	-	SM-CDE80 w/o plate
				SM-CRE80 44T	50	Double	-
				SM-CRE80-R 47T	50	-	
				SM-CRE70 38T	50	Double	SM-CDE80 w/o plate
					50		-
HG 11-speed (Di2, Mechanical)	LINKGLIDE HG 11-speed	HG 11-speed	FC-EM900 FC-M8150 FC-EM600 FC-EN500	SM-CRE80-B 34T/38T	55	-	CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE70-B 34T			
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80 34T/38T	50	-	SM-CDE80 w/o plate
				SM-CRE80 44T	50	Double	-
				SM-CRE80-R 47T	50	-	
				SM-CRE70 38T	50	Double	SM-CDE80 w/o plate
					50		-
HG 10-speed (Mechanical)	CN-E6090-10	HG 10-speed	FC-EM900 FC-M8150 FC-EM600 FC-EN500	SM-CRE80-B 34T/38T	55	-	CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE70-B 34T			
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80 34T/38T	50	-	SM-CDE80 w/o plate
				SM-CRE80 44T	50	Double	-
				SM-CRE80-R 47T	50	-	
				SM-CRE70 38T	50	Double	SM-CDE80 w/o plate
					50		-
HG 9-speed (Mechanical)	CN-E6070-9	HG 9-speed	FC-EM900 FC-M8150 FC-EM600 FC-EN500	SM-CRE70-B 34T	55	-	CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-B 34T	53		CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80-R 47T	50	-	
				SM-CRE70 38T	50	-	SM-CDE80 w/o plate
					50	Double	-

*1 DU-EP800 and DU-EP800-CRG are not compatible with LINKGLIDE Di2 drivetrain

Internal geared hub spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain tensioner
ALFINE INTER-11/8 (Di2, Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500	FC-EM900 FC-M8150 FC-EM600 FC-EN500	CR-ET600 38T/44T	50	Double	CT-S510
				SM-CRE61 38T/44T	46.5		
	HG 8-speed	SM-GEAR		CR-ET600 38T/44T	50	Single	
				SM-CRE61 38T/44T	46.5		
				CR-ET600 38T/44T	50	w/o	-
				SM-CRE61 38T/44T	46.5		
NEXUS INTER-8 (Di2, Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500	FC-EM900 FC-M8150 FC-EM600 FC-EN500	CR-ET600 38T/44T	50	Double	CT-S510
				SM-CRE61 38T/44T	46.5		
	HG 8-speed Single speed (1/2 inch x 1/8 inch)	SM-GEAR		CR-ET600 38T/44T	50	Single	
				SM-CRE61 38T/44T	46.5		
				CR-ET600 38T/44T	50	w/o	-
				SM-CRE61 38T/44T	46.5		
NEXUS INTER-7/3 (Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500	FC-EM900 FC-M8150 FC-EM600 FC-EN500	CR-ET600 38T/44T	50	Double	CT-S510
				SM-CRE61 38T/44T	46.5		
	HG 8-speed Single speed (1/2 inch x 1/8 inch)	SM-GEAR		CR-ET600 38T/44T	50	Single	
				SM-CRE61 38T/44T	46.5		
				CR-ET600 38T/44T	50	w/o	-
				SM-CRE61 38T/44T	46.5		
NEXUS INTER-5E (Di2, Mechanical)	CN-E6070-9 CN-NX10	CS-C7000	FC-EM900 FC-M8150 FC-EM600 FC-EN500	CR-ET600 38T/44T	50	Double	-
				CR-ET600 38T/44T	50	Single	
				SM-CRE61 38T/44T	46.5		
				CR-ET600 38T/44T	50	w/o	
				SM-CRE61 38T/44T	46.5		

DU-E8000 / DU-E8080 / DU-E7000

12-speed Rear derailleur spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
HYPERGLIDE+ 12-speed (Mechanical)	HG 12-speed	HYPERGLIDE+ 12-speed *2	FC-M8050 FC-E8050 FC-E8000	SM-CRE80-12-SB 34T/36T	56.5	-	CD-EM800-A CD-EM800
				CR-EM800 *1*3 32T	55	-	CD-EM800-A w/o plate CD-EM800 w/o plate
				SM-CRE80-12-B 34T/36T/38T			CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-12-B 36T	53	-	CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE80-12-B 34T/36T/38T			
				SM-CRE70-12-B 36T	50	-	-
				SM-CRE80-R 47T			
				SM-CRE70-12 42T	50	Double	

*1 Necessary to replace the lock ring to Y7K79801T

*2 Do not use 9-45T cassette for E-BIKE

*3 If the drivetrain includes the CR-EM800 32T, optimal shifting performance may not be attainable at high torque level

11/10/9-speed Rear derailleur spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
LINKGLIDE (Mechanical)	LINKGLIDE	LINKGLIDE	FC-M8050 FC-E8050 FC-E8000	SM-CRE80-B 34T/38T	55	-	CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE70-B 34T			
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80 34T/38T		-	SM-CDE80 w/o plate
				SM-CRE80 44T		Double	-
				SM-CRE80-R 47T		-	-
				SM-CRE70 38T		-	SM-CDE80 w/o plate
						Double	-
HG 11-speed (Di2, Mechanical)	LINKGLIDE HG 11-speed	HG 11-speed	FC-M8050 FC-E8050 FC-E8000	SM-CRE80-B 34T/38T	55	-	CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE70-B 34T			
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80 34T/38T		-	SM-CDE80 w/o plate
				SM-CRE80 44T		Double	-
				SM-CRE80-R 47T		-	-
				SM-CRE70 38T		-	SM-CDE80 w/o plate
						Double	-
HG 10-speed (Mechanical)	CN-E6090-10	HG 10-speed	FC-M8050 FC-E8050 FC-E8000	SM-CRE80-B 34T/38T	55	-	CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE70-B 34T			
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80 34T/38T		-	SM-CDE80 w/o plate
				SM-CRE80 44T		Double	-
				SM-CRE80-R 47T		-	-
				SM-CRE70 38T		-	SM-CDE80 w/o plate
						Double	-
HG 9-speed (Mechanical)	CN-E6070-9	HG 9-speed	FC-M8050 FC-E8050 FC-E8000	SM-CRE70-B 34T	55	-	CD-EM800-A CD-EM800 (Chain line: 55 mm)
				SM-CRE70-B 34T	53		CD-EM800-A CD-EM800 SM-CDE80 SM-CDE70
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80-R 47T	50	-	-
				SM-CRE70 38T	50	-	SM-CDE80 w/o plate
					50	-	-
					50	Double	-

DU-E6100 / DU-E6100-CRG / DU-E6110 / DU-E6180 C-657**12-speed Rear derailleur spec.**

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
HYPERGLIDE+ 12-speed (Mechanical)	HG 12-speed	HYPERGLIDE+ 12-speed *1	FC-M8050 FC-E8050 FC-E8000 FC-E6100	SM-CRE80-12-SB 34T/36T	56.5	-	-
				SM-CRE80-12-B 34T/36T/38T	55	-	
				SM-CRE70-12-B 36T		-	
				SM-CRE80-12-B 34T/36T/38T	53	-	
				SM-CRE70-12-B 36T		-	
				SM-CRE80-R 47T	50	-	
				SM-CRE70-12 42T		Double	

*1 Do not use 9-45T cassette for E-BIKE

11/10/9-speed Rear derailleur spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
LINKGLIDE (Mechanical)	LINKGLIDE	LINKGLIDE	FC-M8050 FC-E8050 FC-E8000 FC-E6100	SM-CRE80-B 34T/38T	55	-	-
				SM-CRE70-B 34T		-	
				SM-CRE80-B 34T/38T	53	-	
				SM-CRE70-B 34T		-	
				CR-ET600 38T/44T	50	Double	
				SM-CRE80 34T/38T		-	
				SM-CRE80 44T		Double	
				SM-CRE80-R 47T		-	
				SM-CRE70 38T		-	
				SM-CRE70 38T		Double	
				SM-CRE61 38T/44T	46.5	Double, Single, w/o	
HG 11-speed (Di2, Mechanical)	LINKGLIDE HG 11-speed	HG 11-speed	FC-M8050 FC-E8050 FC-E8000 FC-E6100	SM-CRE80-B 34T/38T	55	-	-
				SM-CRE70-B 34T		-	
				SM-CRE80-B 34T/38T	53	-	
				SM-CRE70-B 34T		-	
				CR-ET600 38T/44T	50	Double	
				SM-CRE80 34T/38T		-	
				SM-CRE80 44T		Double	
				SM-CRE80-R 47T		-	
				SM-CRE70 38T		-	
				SM-CRE70 38T		Double	
				SM-CRE61 38T/44T	46.5	Double, Single, w/o	

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
HG 10-speed (Mechanical)	CN-E6090-10	HG 10-speed	FC-M8050 FC-E8050 FC-E8000 FC-E6100	SM-CRE80-B 34T/38T	55	-	-
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	
				SM-CRE70-B 34T			
				CR-ET600 38T/44T	50	Double	
				SM-CRE80 34T/38T		-	
				SM-CRE80 44T		Double	
				SM-CRE80-R 47T		-	
				SM-CRE70 38T		Double	
				SM-CRE70 38T			
				SM-CRE61 38T/44T	46.5	Double, Single, w/o	
HG 9-speed (Mechanical)	CN-E6070-9	HG 9-speed	FC-M8050 FC-E8050 FC-E8000 FC-E6100	SM-CRE80-B 34T/38T	55	-	-
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	
				SM-CRE70-B 34T			
				CR-ET600 38T/44T	50	Double	
				SM-CRE80 34T/38T		-	
				SM-CRE80 44T		Double	
				SM-CRE80-R 47T		-	
				SM-CRE70 38T		Double	
				SM-CRE70 38T			
				SM-CRE61 38T/44T	46.5	Double, Single, w/o	

Internal geared hub spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain tensioner
ALFINE INTER-11/8 (Di2, Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500	FC-M8050 FC-E8050 FC-E8000 FC-E6100	CR-ET600 38T/44T	50	Double	CT-S510
				SM-CRE61 38T/44T	46.5		
	HG 8-speed	SM-GEAR		CR-ET600 38T/44T	50	Single	
				SM-CRE61 38T/44T	46.5		
				CR-ET600 38T/44T	50	w/o	-
				SM-CRE61 38T/44T	46.5		
NEXUS INTER-8 (Di2, Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500	FC-M8050 FC-E8050 FC-E8000 FC-E6100	CR-ET600 38T/44T	50	Double	CT-S510
				SM-CRE61 38T/44T	46.5		
	HG 8-speed Single speed (1/2 inch x 1/8 inch)	SM-GEAR		CR-ET600 38T/44T	50	Single	
				SM-CRE61 38T/44T	46.5		
				CR-ET600 38T/44T	50	w/o	-
				SM-CRE61 38T/44T	46.5		
NEXUS INTER-7/3 (Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500	FC-M8050 FC-E8050 FC-E8000 FC-E6100	CR-ET600 38T/44T	50	Double	CT-S510
				SM-CRE61 38T/44T	46.5		
	HG 8-speed Single speed (1/2 inch x 1/8 inch)	SM-GEAR		CR-ET600 38T/44T	50	Single	
				SM-CRE61 38T/44T	46.5		
				CR-ET600 38T/44T	50	w/o	-
				SM-CRE61 38T/44T	46.5		
NEXUS INTER-5E (Di2, Mechanical)	CN-E6070-9 CN-NX10	CS-C7000	FC-M8050 FC-E8050 FC-E8000 FC-E6100	CR-ET600 38T/44T	50	Double	-
				CR-ET600 38T/44T	50	Single	
				SM-CRE61 38T/44T	46.5		w/o
				CR-ET600 38T/44T	50		
				SM-CRE61 38T/44T	46.5		

DU-E6000 / DU-E6001 / DU-E6010 C-658**11/10/9-speed Rear derailleur spec.**

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain tensioner
HG 11-speed (Mechanical)	HG 11-speed	HG 11-speed	FC-E6000 FC-E6010 FC-E5000 FC-E5010	SM-CRE60 38T/44T	46.5	Double	-
HG 10-speed (Mechanical)	CN-E6090-10	HG 10-speed		SM-CRE60 38T/44T	46.5	Double	-
HG 9-speed (Mechanical)	CN-E6070-9	HG 9-speed		SM-CRE60 38T/44T	46.5	Double	-

Internal geared hub spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain tensioner
ALFINE INTER-11/8 (Di2, Mechanical)	CN-E6070-9 HG 8-speed	CS-S500	FC-E6000 FC-E6010 FC-E5000 FC-E5010	SM-CRE60 38T/44T	46.5	w/o	CT-S510
		SM-GEAR			46.5	Double	
NEXUS INTER-8 (Di2, Mechanical)	HG Single speed (1/2 inch x 1/8 inch)	SM-GEAR		SM-CRE60 38T/44T	46.5	Single, w/o	CT-S510 *
NEXUS INTER-7/3 (Mechanical)	HG Single speed (1/2 inch x 1/8 inch)	SM-GEAR		SM-CRE60 38T/44T	46.5	Single, w/o	

* Not compatible with CN-NX10

DU-E5100 / DU-E5000 / DU-E5080 / DU-E5080-H C-659**11/10/9-speed Rear derailleur spec.**

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
LINKGLIDE (Mechanical)	LINKGLIDE	LINKGLIDE	FC-E6000 FC-E6010 FC-E5000 FC-E5010	SM-CRE50 38T/44T	46.5	Double, Single, w/o	-
HG 11-speed (Di2, Mechanical)	HG 11-speed	HG 11-speed		SM-CRE50 38T/44T	46.5	Double, Single, w/o	
HG 10-speed (Mechanical)	CN-E6090-10	HG 10-speed		SM-CRE50 38T/44T	46.5	Double, Single, w/o	
HG 9-speed (Mechanical)	CN-E6070-9	HG 9-speed		SM-CRE50 38T/44T	46.5	Double, Single, w/o	

Internal geared hub spec.

Shifting system	Chain type	Rear sprocket	Crank arm	Chainring	Chain line (mm)	Chain guard	Chain device
ALFINE INTER-11/8 (Di2, Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500	FC-E6000 FC-E6010 FC-E5000 FC-E5010	SM-CRE50 38T/44T	46.5	Double	CT-S510
	HG 8-speed	SM-GEAR		SM-CRE50 38T/44T		Single	
				SM-CRE50 38T/44T		w/o	-
NEXUS INTER-8 (Di2, Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500		SM-CRE50 38T/44T	46.5	Double	CT-S510
	HG 8-speed Single speed (1/2 inch x 1/8 inch)	SM-GEAR		SM-CRE50 38T/44T		Single	
				SM-CRE50 38T/44T		w/o	-
NEXUS INTER-7/3 (Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500		SM-CRE50 38T/44T	46.5	Double	CT-S510
	HG Single speed (1/2 inch x 1/8 inch)	SM-GEAR		SM-CRE50 38T/44T		Single	
				SM-CRE50 38T/44T		w/o	-
NEXUS INTER-5E (Di2, Mechanical)	HG 8-speed CN-NX10	CS-C7000			SM-CRE50 38T/44T	46.5	Single, w/o

Switch unit / cycle computer and brake lever compatibility

C-421

For Hydraulic Disc brake

For MTB Di2 shift switch, refer to [C-744](#)

I-SPEC EV type brake lever

Model No.	SHIMANO E-BIKE SYSTEMS cycle computer		
	SC-EN500 *1	SC-E5000 *1	SC-E5003 *1
BL-M9200	✓	✓	✓
BL-M9220	✓	✓	✓
BL-M9100	✓	✓	-
BL-M9120	✓	✓	-
BL-M8200	✓	✓	✓
BL-M8100	✓	✓	-
BL-M7100	✓	✓	-
BL-M6200	-	-	-
BL-M6100	✓	✓	-
BL-M4100	✓	✓	-
BL-MT620	-	-	-

Model No.	SHIMANO E-BIKE SYSTEMS switch unit							
	SW-EM800-L	SW-EN600-L	SW-EN600-R	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SW-EN605-R
BL-M9200	✓	✓	✓	-	✓	✓	✓	✓
BL-M9220	✓	✓	✓	-	✓	✓	✓	✓
BL-M9100	✓	✓	✓	-	✓	✓	✓	✓
BL-M9120	✓	✓	✓	-	✓	✓	✓	✓
BL-M8200	✓	✓	✓	-	✓	✓	✓	✓
BL-M8100	✓	✓	✓	-	✓	✓	✓	✓
BL-M7100	✓	✓	✓	-	✓	✓	✓	✓
BL-M6200	-	✓	✓	-	-	-	-	✓
BL-M6100	✓	✓	✓	-	✓	✓	✓	✓
BL-M4100	✓	✓	✓	-	✓	✓	✓	✓
BL-MT620	-	✓	✓	-	-	-	-	✓

*1 I-SPEC EV compatible spec only.

I-SPEC II type brake lever

Model No.	SHIMANO E-BIKE SYSTEMS cycle computer		
	SC-EN500	SC-E5000	SC-E5003
BL-M9000	✓	✓	✓
BL-M9020	✓	✓	✓
BL-M8000	✓	✓	✓
BL-T8100	✓	✓	✓
BL-T8000	✓	✓	✓
BL-M7000	✓	✓	✓
BL-M6000	✓	✓	✓
BL-T6000	✓	✓	✓
BL-RS600	✓	✓	✓
BL-MT501	✓	✓	✓
BL-U8000 *1	✓	✓	✓

Model No.	SHIMANO E-BIKE SYSTEMS switch unit							
	SW-EM800-L	SW-EN600-L	SW-EN600-R	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SW-EN605-R
BL-M9000	✓	✓	✓	✓	✓	✓	✓	✓
BL-M9020	✓	✓	✓	✓	✓	✓	✓	✓
BL-M8000	✓	✓	✓	✓	✓	✓	✓	✓
BL-T8100	✓	✓	✓	✓	✓	✓	✓	✓
BL-T8000	✓	✓	✓	✓	✓	✓	✓	✓
BL-M7000	✓	✓	✓	✓	✓	✓	✓	✓
BL-M6000	✓	✓	✓	✓	✓	✓	✓	✓
BL-T6000	✓	✓	✓	✓	✓	✓	✓	✓
BL-RS600	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT501	✓	✓	✓	✓	✓	✓	✓	✓
BL-U8000 *1	✓	✓	✓	-	✓	✓	✓	✓

*1 As for the compatibility between BL-U8000 and mechanical shifter, please refer to the [C-738](#).

Other clamp band type brake lever

Model No.	SHIMANO E-BIKE SYSTEMS cycle computer		
	SC-EN500	SC-E5000	SC-E5003
BL-MT402-3A	✓	✓	✓
BL-MT401	✓	✓	✓
BL-MT201	✓	✓	✓
BL-MT200	✓	✓	✓
BL-MT420-3A	✓	✓	✓
BL-MT420	✓	✓	✓
BL-MT221	✓	✓	✓
BL-MT220	✓	✓	✓

Model No.	SHIMANO E-BIKE SYSTEMS switch unit							
	SW-EM800-L	SW-EN600-L	SW-EN600-R	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SW-EN605-R
BL-MT402-3A	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT401	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT201	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT200	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT420-3A	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT420	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT221	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT220	✓	✓	✓	✓	✓	✓	✓	✓

Brake lever for mechanical brake (Mechanical disc brake / V-BRAKE / Caliper brake)

Refer to Spec Hand Book for compatible brake type.

Model No.	SHIMANO E-BIKE SYSTEMS cycle computer		
	SC-EN500	SC-E5000	SC-E5003
BL-T610	✓	✓	✓
BL-T611	✓	✓	✓
BL-T4000	✓	✓	✓
BL-T4010	✓	✓	✓
BL-C6010	✓	✓	✓
BL-4700	✓	✓	✓
BL-R3000	✓	✓	✓
BL-R2000	✓	✓	✓
BL-R780	✓	✓	✓
BL-R550	✓	✓	✓

Model No.	SHIMANO E-BIKE SYSTEMS switch unit							
	SW-EM800-L	SW-EN600-L	SW-EN600-R	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SW-EN605-R
BL-T610	✓	✓	✓	✓	✓	✓	✓	✓
BL-T611	✓	✓	✓	✓	✓	✓	✓	✓
BL-T4000	✓	✓	✓	✓	✓	✓	✓	✓
BL-T4010	✓	✓	✓	✓	✓	✓	✓	✓
BL-C6010	✓	✓	✓	✓	✓	✓	✓	✓
BL-4700	✓	✓	✓	✓	✓	✓	✓	✓
BL-R3000	✓	✓	✓	✓	✓	✓	✓	✓
BL-R2000	✓	✓	✓	✓	✓	✓	✓	✓
BL-R780	✓	✓	✓	✓	✓	✓	✓	✓
BL-R550	✓	✓	✓	✓	✓	✓	✓	✓

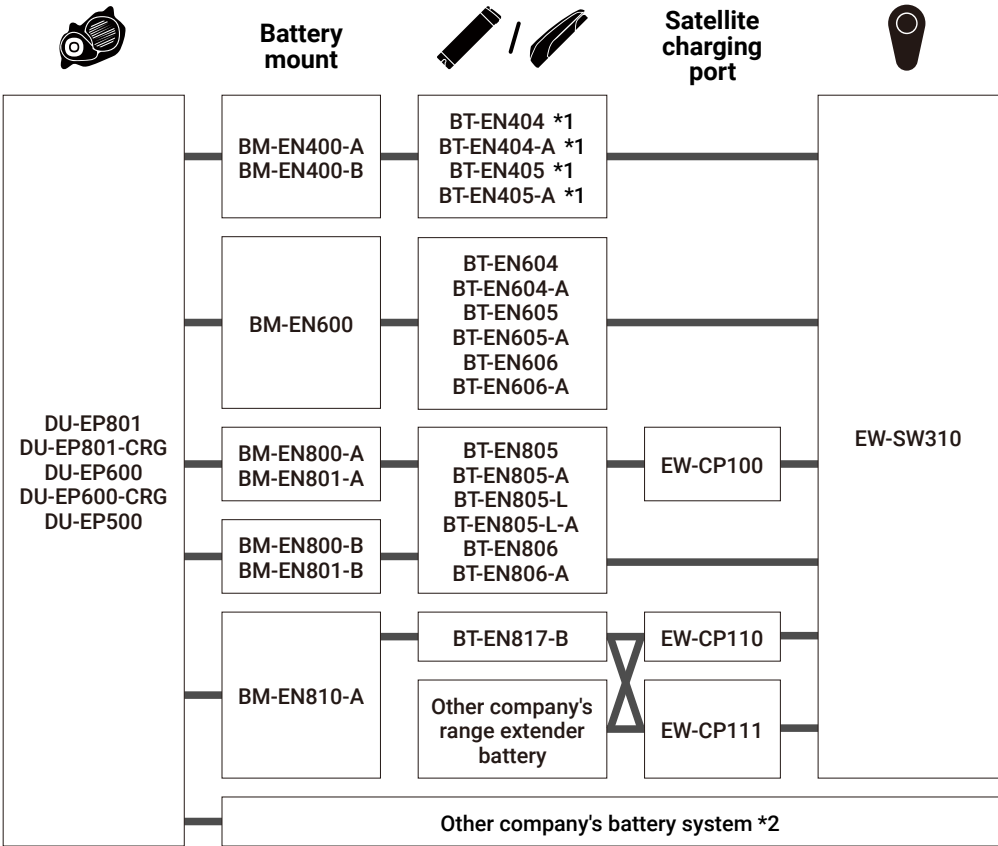
Battery and battery mount compatibility

C-511

5. Compatibility

Batteries shipped in the country / region are different.

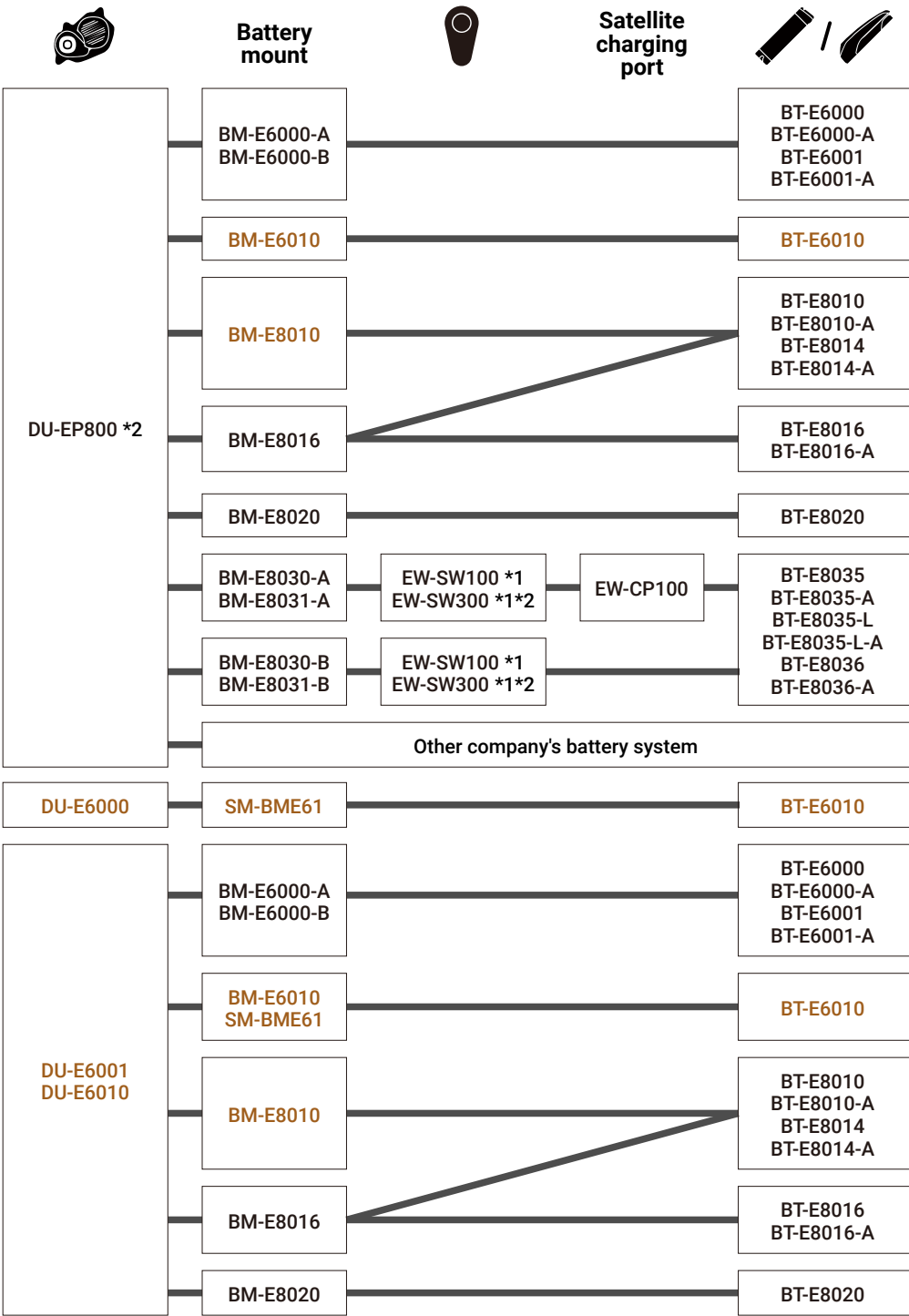
For Gen.2 battery management system

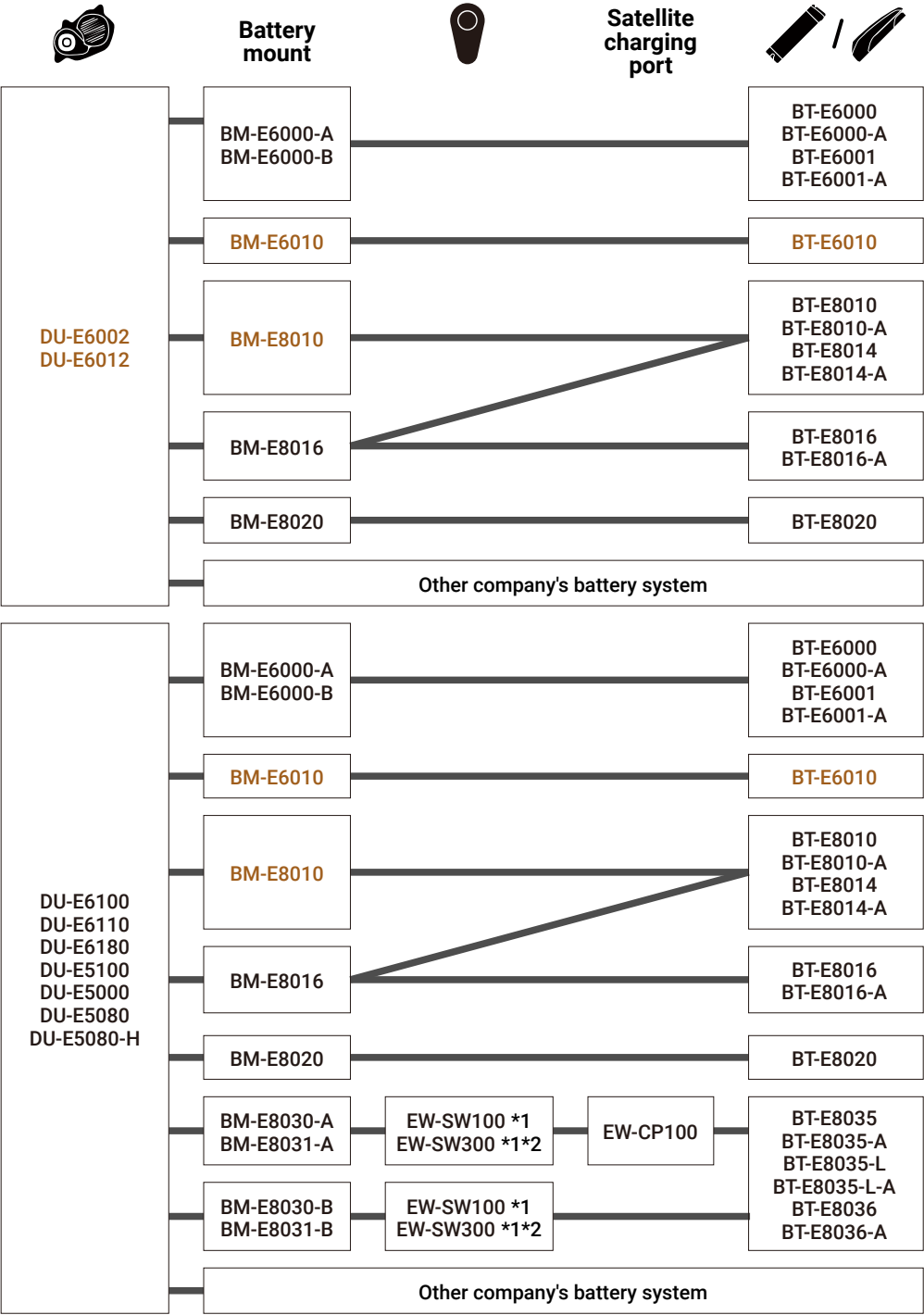


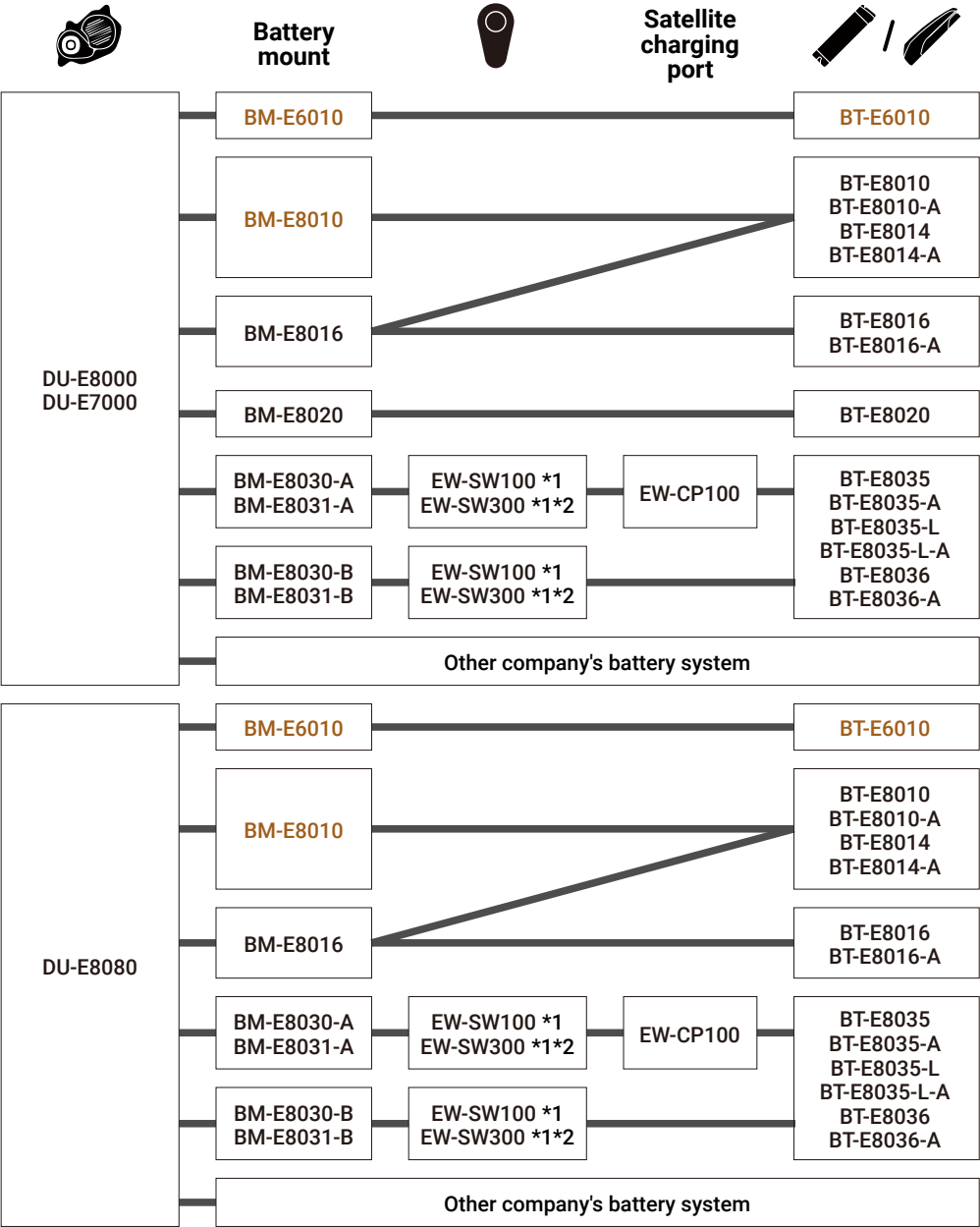
Limitation of function

- *1 These batteries don't support over 500W drive unit power output
- *2 Some of these batteries don't support over 500W drive unit power output

For 1st generation battery management system





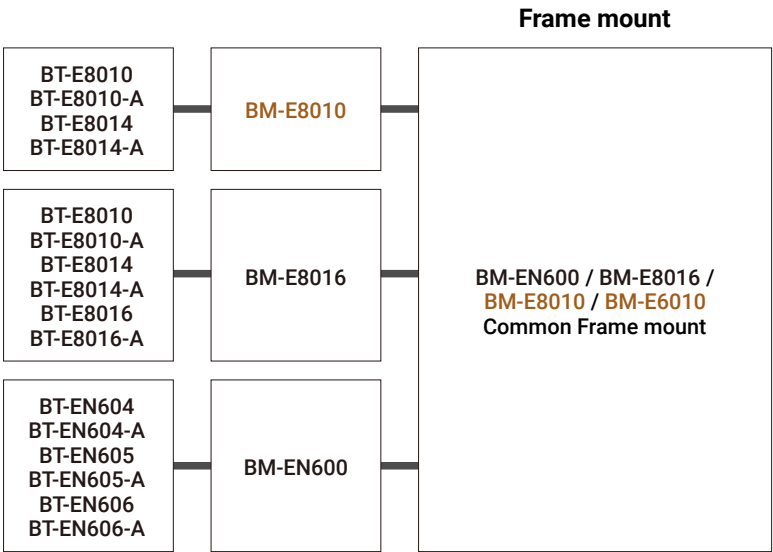


Limitation of function

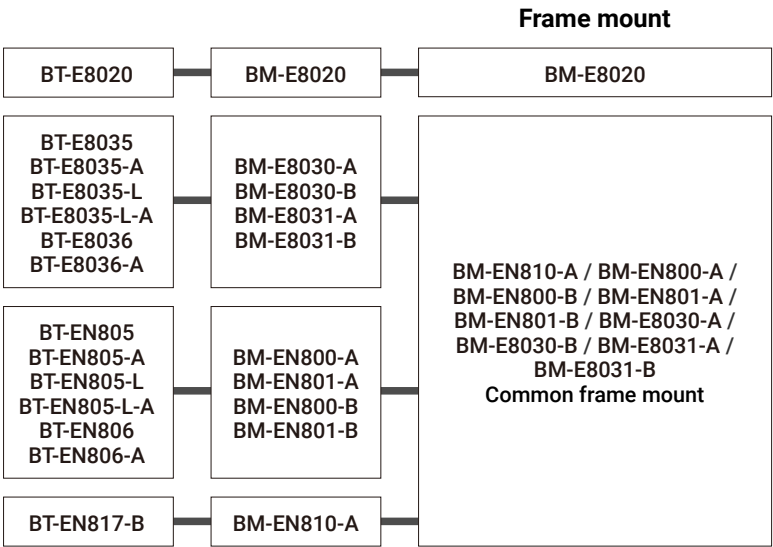
- *1 Can't use with SC-E6010
- *2 This unit has SD300 port, and needs EW-AD305 for connection to SD50 port unit.

Frame mount compatibility

External battery type



Integrated battery type (Swing-in spec.)

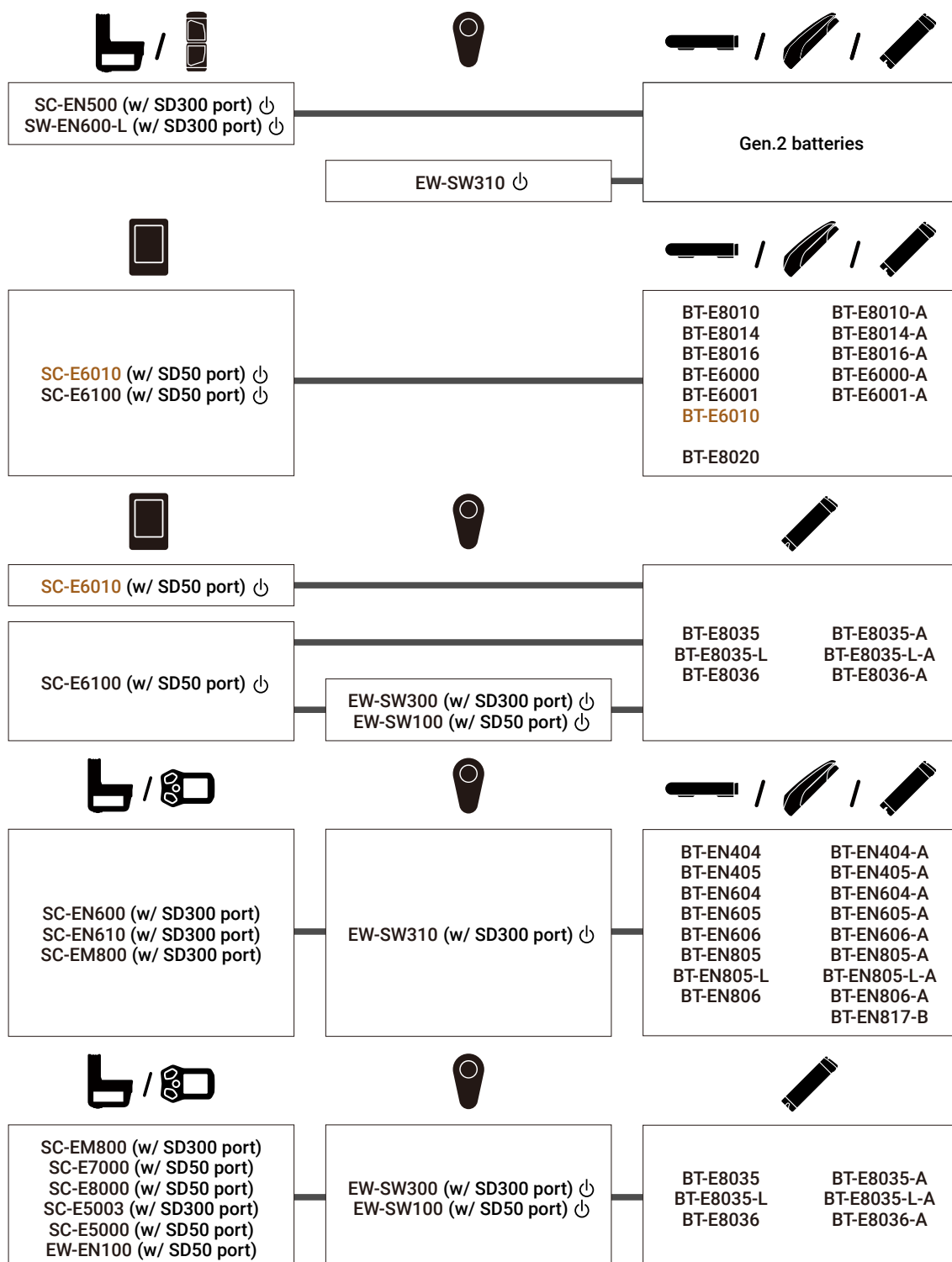


System on/off function compatibility

C-629

5. Compatibility

 : Products marked with this icon have the main power ON/OFF function of the E-BIKE.



Configuration of assist switch functions

C-781

3 buttons (exclude system ON/OFF) in E-BIKE system are necessary to operate full of e-bike functions.
If the system only have 1 or 2 buttons, functions to operate in the E-BIKE are limited as shown in the list.

Drive Unit	Cockpit item 1	Cockpit item 2	Cockpit item 3	Total number of switches in the E-BIKE	Configuration for switch function	Functions in customize menu
DU-EP801 DU-EP801-CRG DU-EP600 DU-EP600-CRG DU-EP500	SC-EN500	-	-	5	1: System ON/OFF 2: Assist up 3: Assist down 4: Display / Setting 5: Light ON/OFF	-
	SW-EN600-L	-	-	5	1: System ON/OFF 2: Assist up (**) 3: Assist down (**) 4: Display / Setting 5: - (**)	D-FLY Display / Setting Gear shifting mode Light ON/OFF
	SC-EN600 SC-EN610	SW-EN600-L	-	5	1: System ON/OFF 2: Assist up 3: Assist down 4: Display / Setting (**) 5: Light ON/OFF	D-FLY Display / Settings Gear shifting mode Light on/off
	SC-EN600 SC-EN610	EW-SW310	SW-EM800-L	4	1: System ON/OFF 2: Assist up (**) 3: Assist down (**) 4: Display / Setting (**) * Light can be turned ON/OFF via cycle computer setting menu	Assist up Assist down Rear shift up Rear shift down D-FLY Display / Setting Gear shifting mode Light ON/OFF RD function
	SC-EM800	EW-SW310	SW-EM800-L	5	1: System ON/OFF 2: Assist up (**) 3: Assist down (**) 4: Display / Setting 5: Light ON/OFF (**)	Assist up Assist down Rear shift up Rear shift down D-FLY Display / Setting Gear shifting mode Light ON/OFF RD function
	SC-EM800	SW-EM800-L	-	3	1: Assist up (**) 2: Assist down (**) 3: Display / Setting * Light can be turned ON/OFF via cycle computer setting menu * System can be turned ON/OFF via button on the battery	Assist up Assist down Rear shift up Rear shift down D-FLY Display / Setting Gear shifting mode Light ON/OFF RD function
	EW-SW310	-	-	2	1: System ON/OFF 2: Assist up (Cycle) (*, **)	D-FLY Display / Setting Gear shifting mode Light ON/OFF
	SC-EN600 SC-EN610	EW-SW310	-	2	1: System ON/OFF 2: Assist up (Cycle) (*, **)	D-FLY Display / Setting Gear shifting mode Light ON/OFF
	SC-EM800	EW-SW310	-	3	1: System ON/OFF 2: Assist up (Cycle) (*, **) 3: Display / Setting	D-FLY Display / Setting Gear shifting mode Light ON/OFF

* Each time you press the switch, the mode changes to a mode with stronger assist power, and returns to OFF from mode of maximum assist power.

Example: OFF→ECO→TRAIL→BOOST→OFF

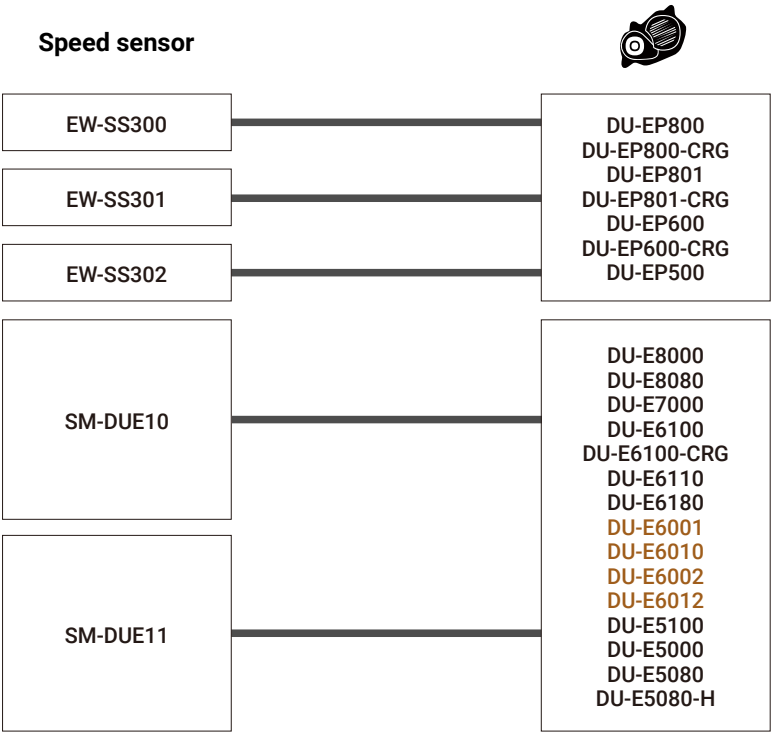
** Function assignments to buttons can be customized.

Speed sensor compatibility

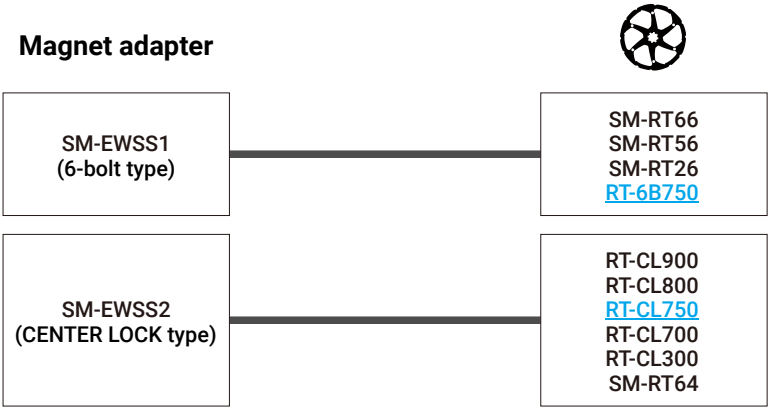
C-549

5. Compatibility

Speed sensor and drive unit compatibility



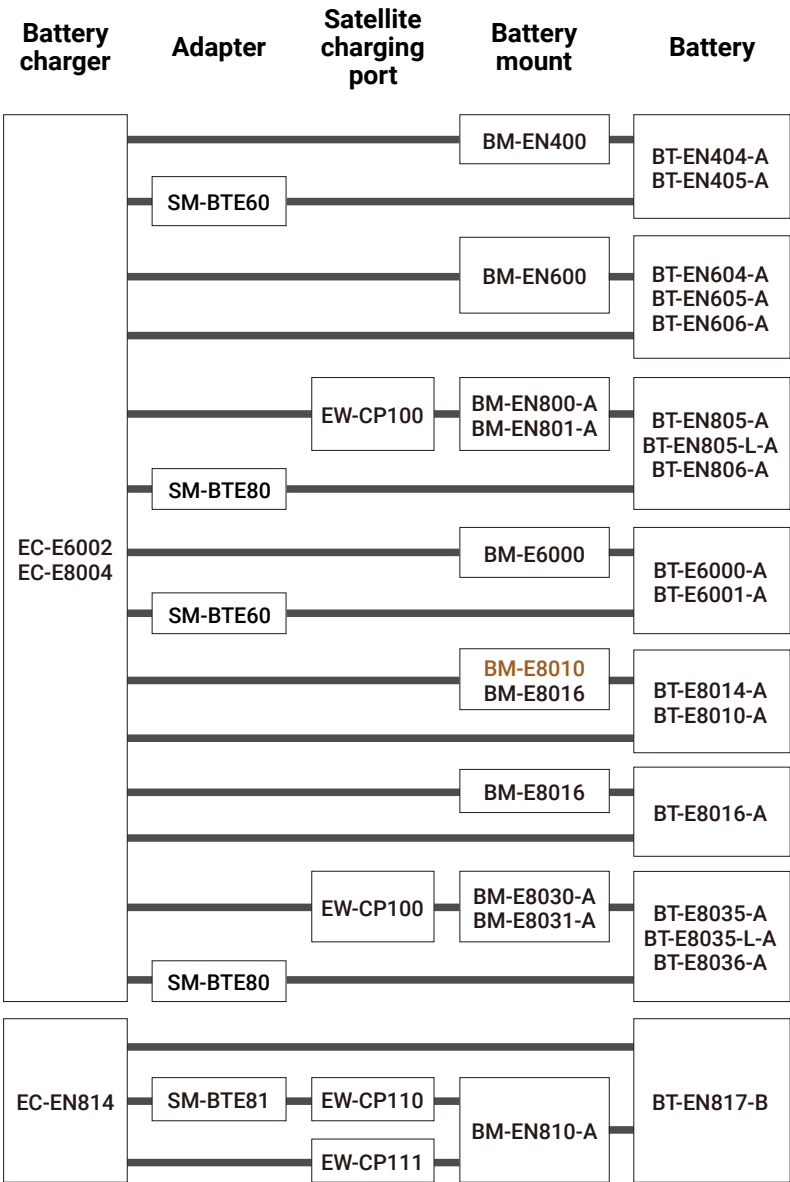
Magnet adapter and rotor compatibility



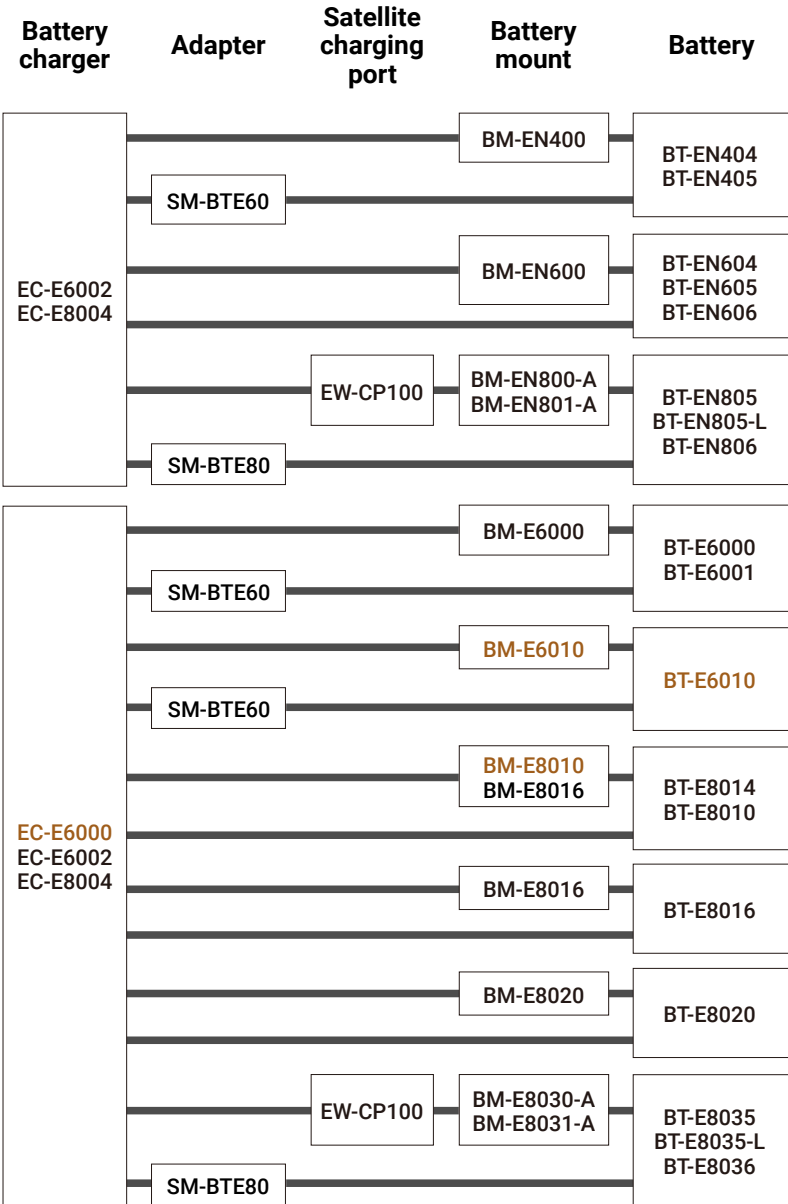
Battery and battery charger compatibility

C-562

For BT-ENxxx-A/B and BT-Exxxx-A



For BT-ENxxx and BT-Exxxx

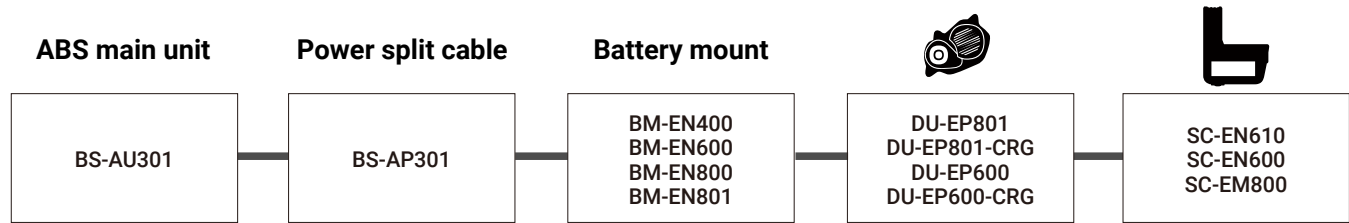


ABS compatibility

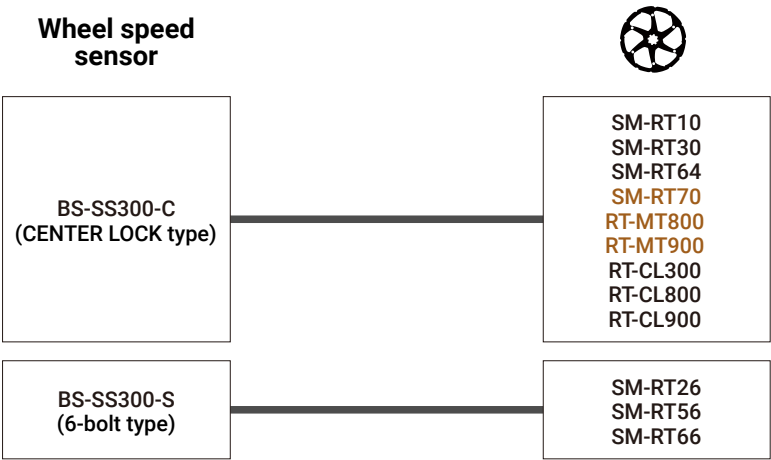
C-715

SHIMANO ABS by Blubrake compatibility C-774

ABS main unit and drive unit compatibility



Wheel speed sensor and rotor compatibility



Compatibility between SHIMANO brake system and BOSCH ABS C-775

Special J-kit for BOSCH ABS system is available.

For BOSCH ABS

	Group-1	Group-2	Group-3
ABS mode	Touring / Allroad	Touring	Allroad / Trail / Off
Brake lever	BL-MT200-ABS / BL-MT220-ABS	BL-MT402-ABS / BL-MT420-3A-ABS	BL-MT402-ABS / BL-MT420-3A-ABS
Brake caliper	BR-MT200 (2-piston)	BR-MT420 (4-piston)	BR-MT420 (4-piston)
Brake hose type	BH59 (Special J-kit for BOSCH ABS)	BH90 (Special J-kit for BOSCH ABS)	BH90 (Special J-kit for BOSCH ABS)
Brake pads	BP-B05S-RX	BP-D03S-RX BP-D02S-MX	BP-D03S-RX BP-D02S-MX
Front rotor (6-bolt type)	SM-RT26 (180 mm)	SM-RT66 (180, 203 mm)	SM-RT66 (203, 220 mm)
Front rotor (CENTER LOCK type)	SM-RT10 (180 mm)	SM-RT64 (180, 203 mm) RT-CL300 (180, 203 mm) SM-RT30 (180, 203 mm)	SM-RT30 (203 mm) RT-CL300 (203 mm) SM-RT64 (203, 220 mm)
Oil	SHIMANO MINERAL OIL	SHIMANO MINERAL OIL	SHIMANO MINERAL OIL

	Group-4	Group-5	Group-6
ABS mode	Touring / Allroad / Trail / Off	Touring	Allroad / Trail / Off
Brake lever	BL-U8000-ABS	BL-M4100-ABS	BL-M4100-ABS
Brake caliper	BR-U8020 (4-piston)	BR-MT420 (4-piston)	BR-MT420 (4-piston)
Brake hose type	BH90 (Special J-kit for BOSCH ABS)	BH90 (Special J-kit for BOSCH ABS)	BH90 (Special J-kit for BOSCH ABS)
Brake pads	BP-D03S-RX BP-D02S-MX BP-N03A-RF BP-N04C-MF	BP-D03S-RX BP-D02S-MX	BP-D03S-RX BP-D02S-MX
Front rotor (6-bolt type)	SM-RT66 (180, 203, 220 mm)	SM-RT66 (180, 203 mm)	SM-RT66 (203, 220 mm)
Front rotor (CENTER LOCK type)	RT-CL700 (203 mm) SM-RT64 (180, 203, 220 mm) SM-RT30 (180, 203 mm) RT-CL300 (180, 203mm)	SM-RT64 (180, 203 mm) SM-RT30 (180, 203 mm) RT-CL300 (180, 203mm)	SM-RT64 (203, 220 mm) SM-RT30 (203 mm) RT-CL300 (203mm)
Oil	SHIMANO MINERAL OIL	SHIMANO MINERAL OIL	SHIMANO MINERAL OIL

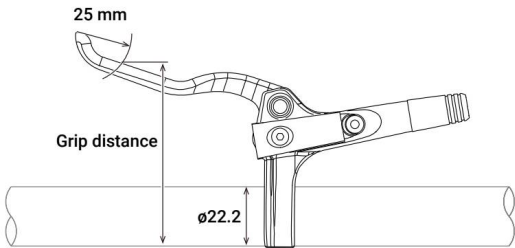
* Please note that the brake levers compatible with BOSCH ABS has narrower adjustment range of grip distance compared to other levers, and the nominal grip distance is also wider.

For BOSCH ABS Pro

	Group-1	Group-2	Group-3
ABS mode	Trail Pro / Race / Off	Trail Pro / Race / Off	Trail Pro / Race / Off
Brake lever	BL-M8200	BL-M9220	BL-M6200
Brake caliper	BR-M8220 (4-piston)	BR-M9220 (4-piston)	BR-M6220 (4-piston)
Brake hose type	BH90 (Special J-kit for BOSCH ABS)	BH90 (Special J-kit for BOSCH ABS)	BH90 (Special J-kit for BOSCH ABS)
Brake pads	BP-D03S-RX BP-D02S-MX BP-P03A-RF BP-P04C-MF	BP-D03S-RX BP-D02S-MX BP-P03A-RF BP-P04C-MF	BP-D03S-RX BP-D02S-MX
Front rotor (6-bolt type)	RT-6B750 (220 mm) SM-RT66 (203, 220 mm)	RT-6B750 (220 mm) SM-RT66 (203, 220 mm)	RT-6B750 (220 mm) SM-RT66 (203, 220 mm)
Front rotor (CENTER LOCK type)	RT-CL750 (220 mm) RT-CL900 (203 mm) RT-CL800 (203 mm) RT-CL700 (203 mm)	RT-CL750 (220 mm) RT-CL900 (203 mm) RT-CL800 (203 mm) RT-CL700 (203 mm)	RT-CL750 (220 mm) RT-CL900 (203 mm) RT-CL800 (203 mm) RT-CL700 (203 mm)
Oil	SHIMANO LOW VISCOSITY OIL	SHIMANO LOW VISCOSITY OIL	SHIMANO LOW VISCOSITY OIL

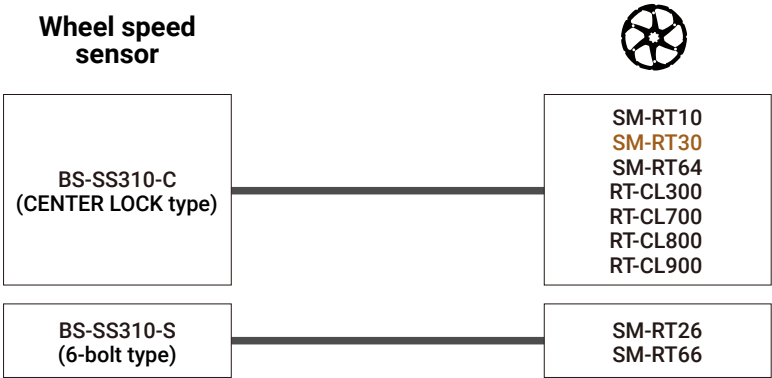
Grip Distance

Please be noted that the Brake Levers compatible with BOSCH ABS has narrower adjustment range of grip distance.



BOSCH ABS model	Brake lever	Grip distance	
		Min. (mm)	Max. (mm)
ABS Pro	BL-M9220	58	100
	BL-M8200	58	100
	BL-M6200	60	83
ABS	BL-MT220-ABS	80.4	101.3
	BL-MT420-3A-ABS	78.0	99.6
	BL-MT200-ABS	83	94
	BL-MT402-ABS	80	98
	BL-M4100-ABS	60	83
	BL-U8000-ABS	80.5	100

Wheel speed sensor mount adapter and rotor compatibility



Crank arm for 3rd party E-BIKE system

C-783

BOSCH eBike systems



* Contact BOSCH for details of compatible drive unit

Electronic Product Information

C-472

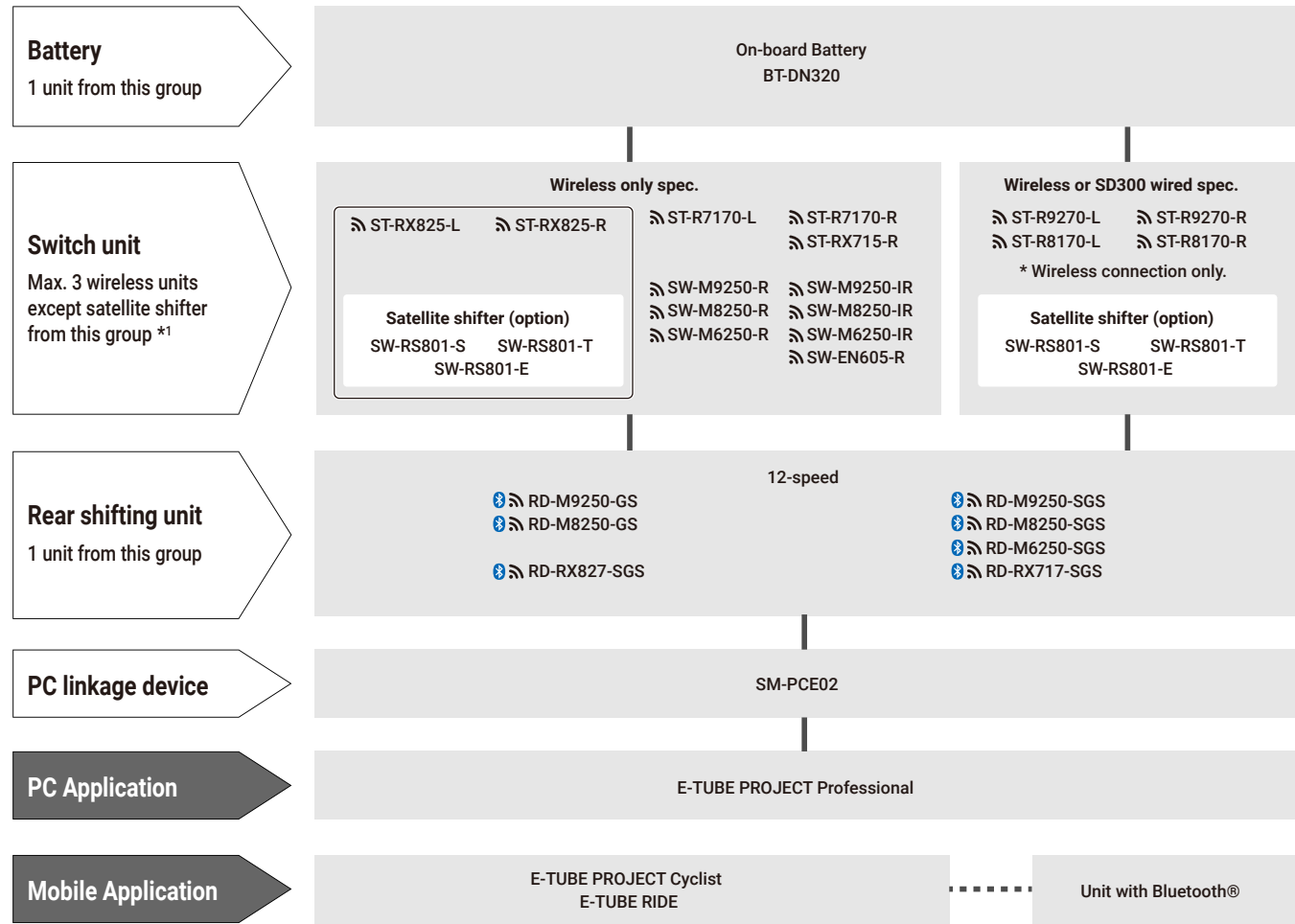
Di2 product compatibility

C-473

Di2 system

C-842

Di2 with BT-DN320



Limitation of function with BT-DN320

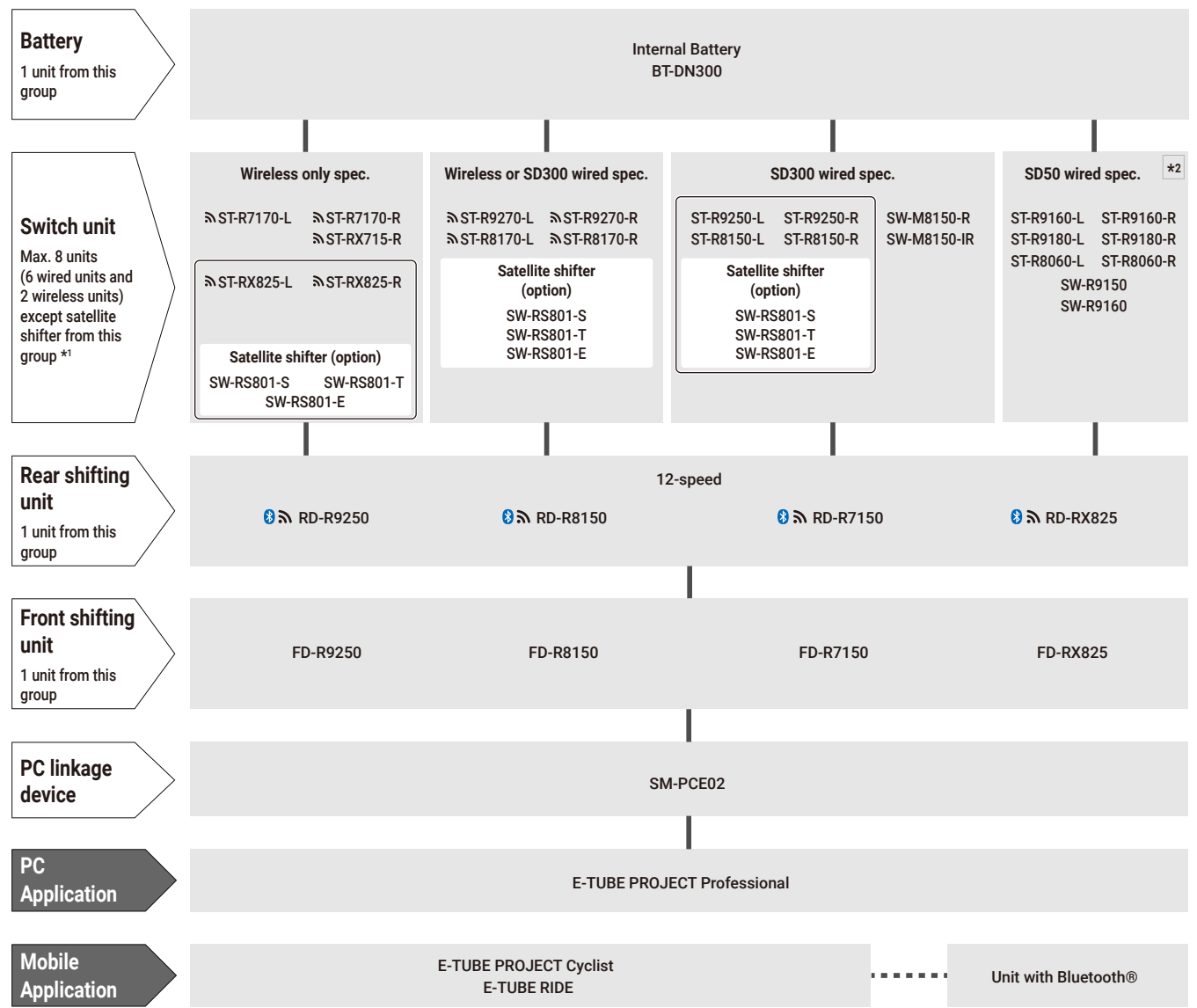
The number of connectable wireless units paired by App is limited as follows:

- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
- Switch unit: maximum of one SW-R/IR

Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6

Di2 with BT-DN300



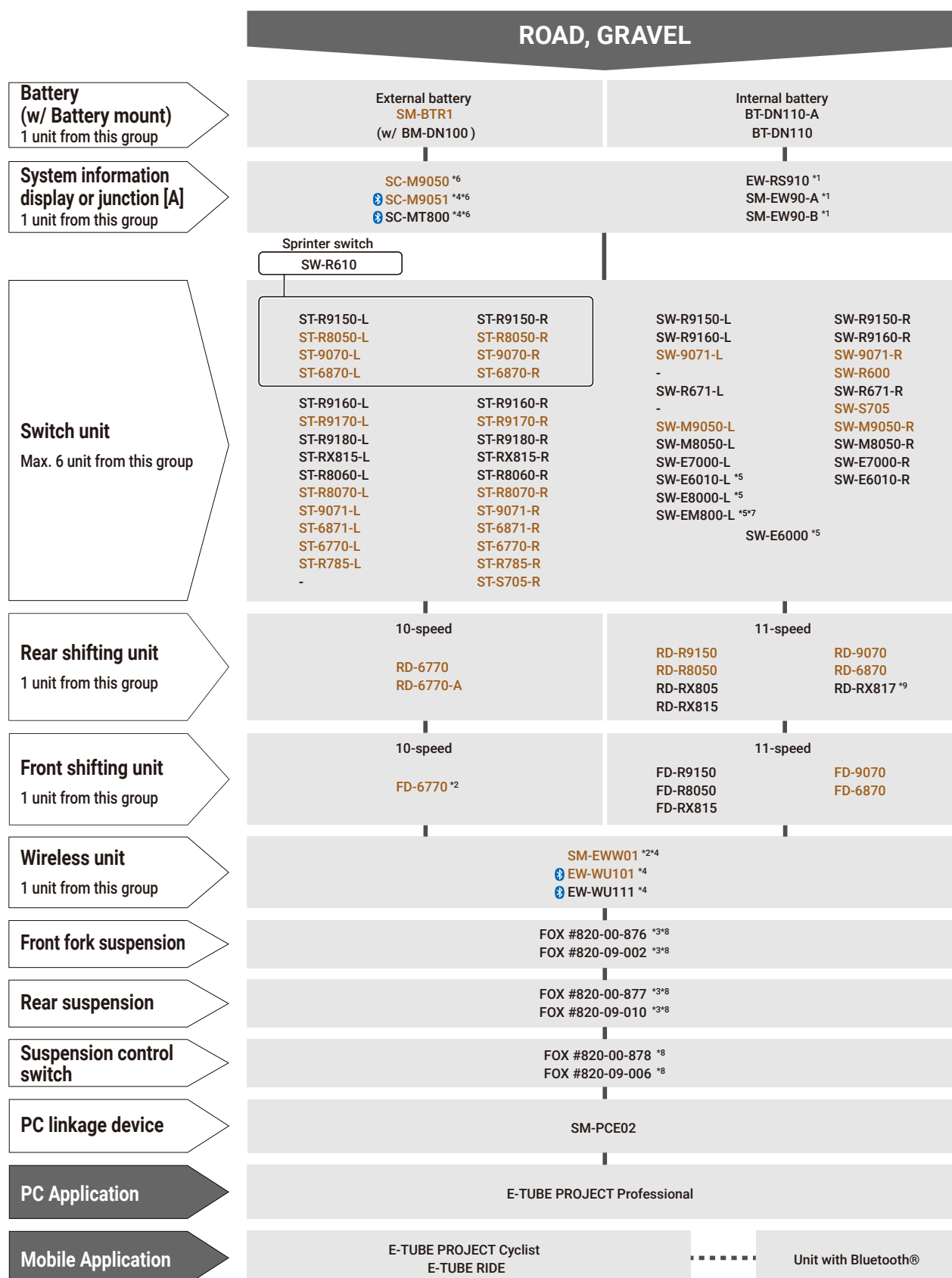
Limitation of function with BT-DN300

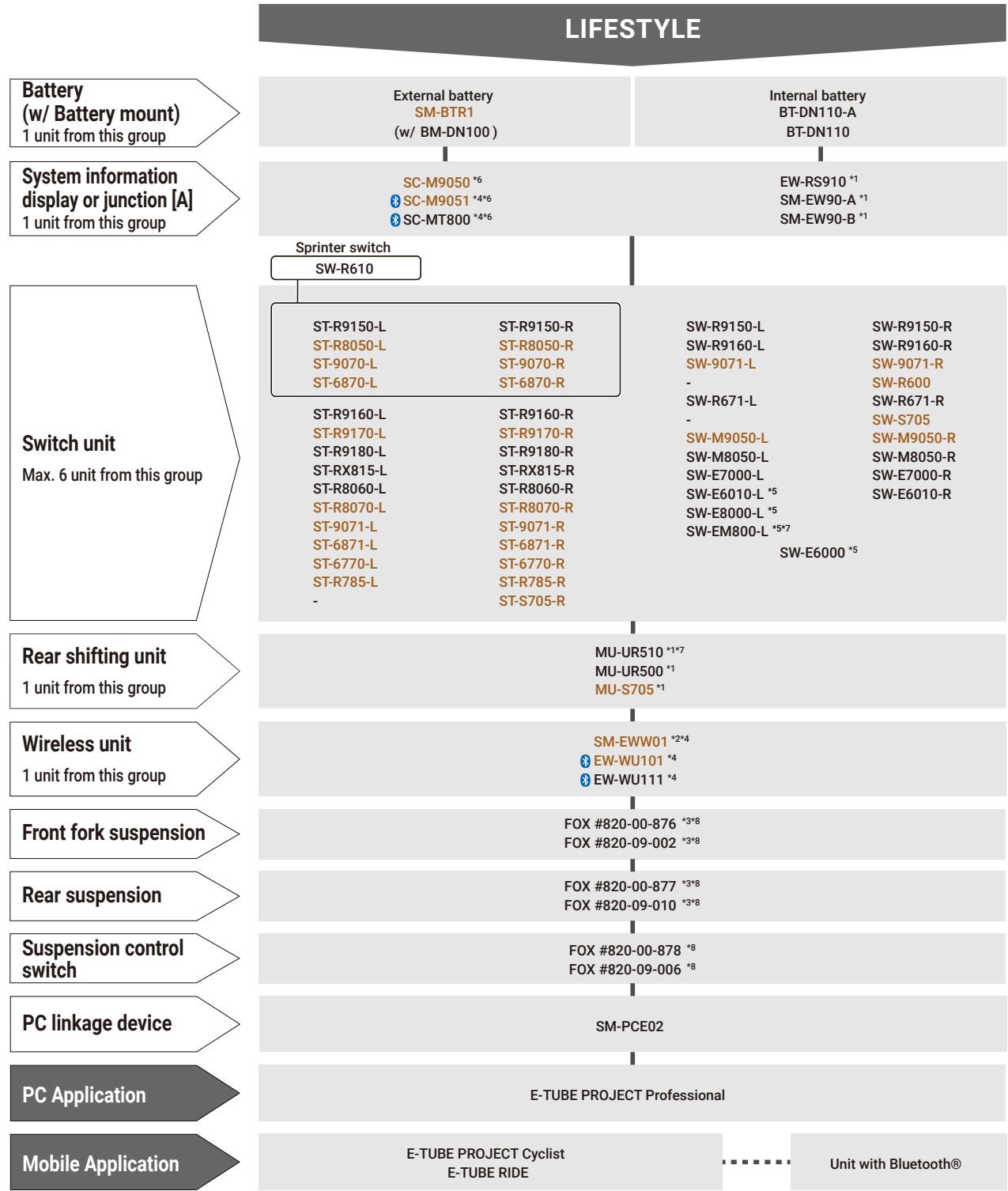
- *1 The number of connectable wireless units paired by App is limited as follows:
- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
- *2 EW-AD305 is needed.

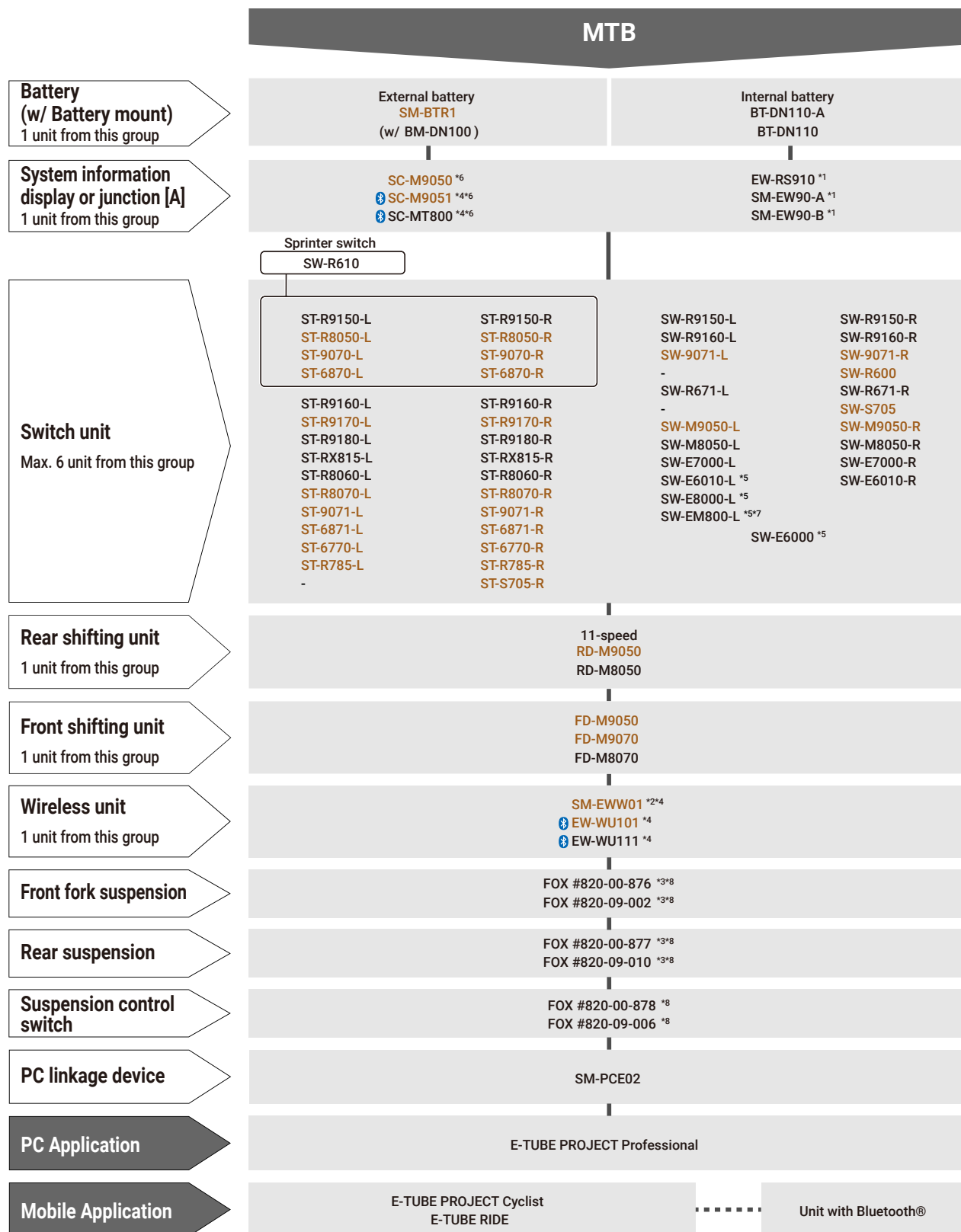
Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6

Di2 with BM-DN100 / BT-DN110







- **SM-BTR1** is not displayed on E-TUBE PROJECT (BM-DN100 is displayed)
- **BT-DN110-A** is displayed as **BT-DN110** on E-TUBE PROJECT

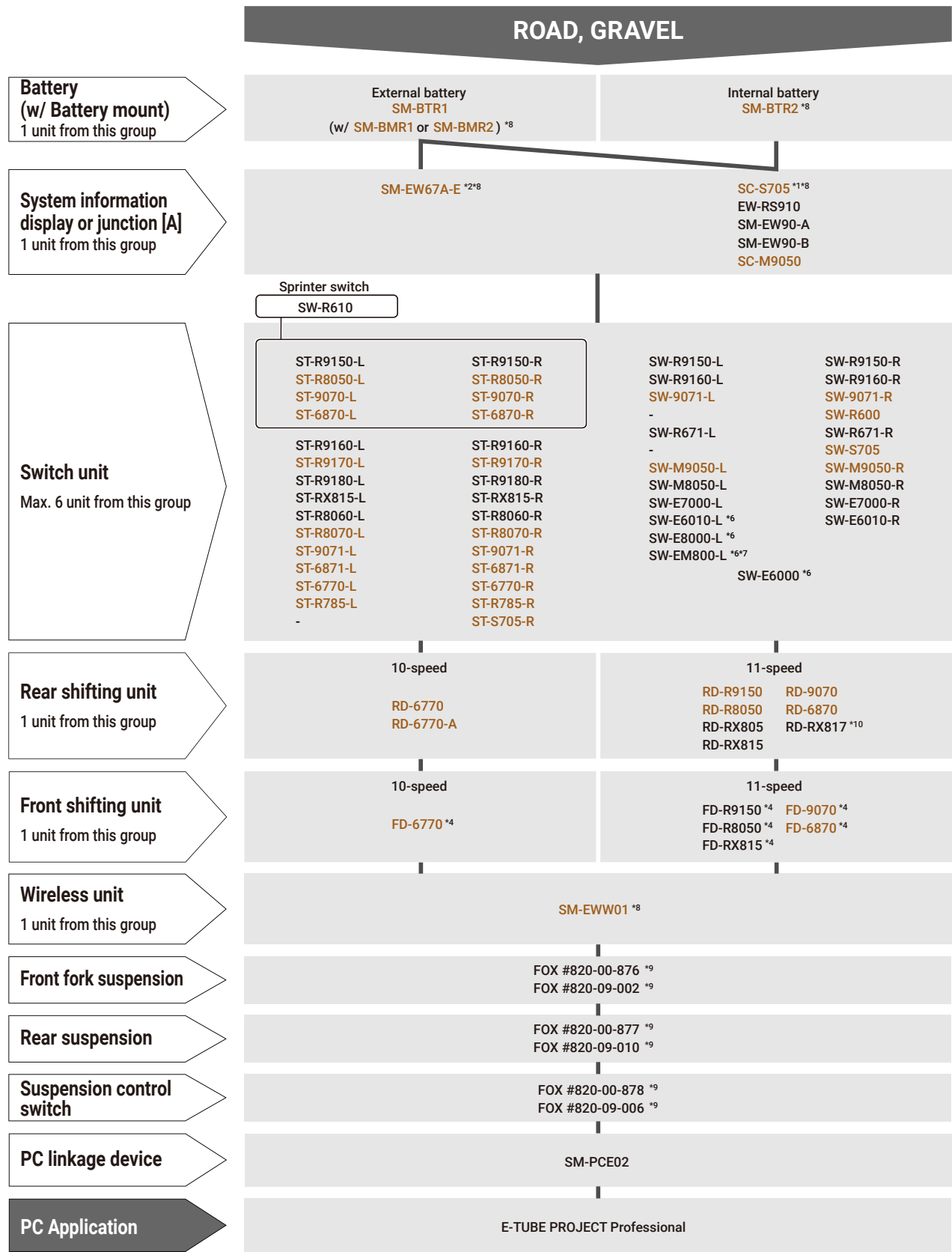
Limitation of function with BM-DN100 / BT-DN110

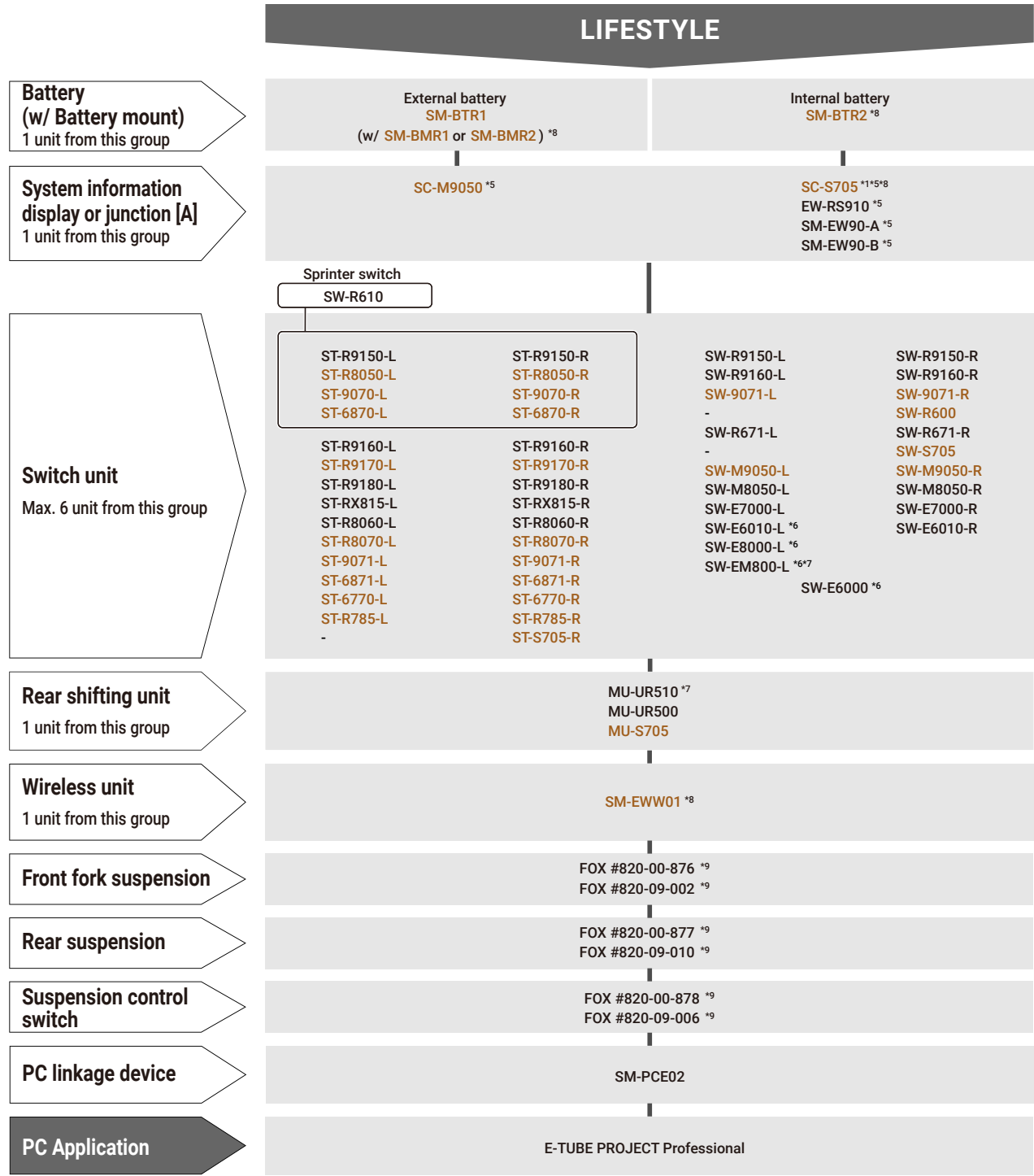
- *1 Shifting adjustment mode for **MU-S705**, MU-UR500 and MU-UR510 is not supported (need E-TUBE PROJECT to adjust)
- *2 Not supported by E-TUBE PROJECT Cyclist
- *3 A designated control switch and/or the combination **SW-M9050**/SW-M8050-L with **SC-M9050**/**SC-M9051**/SC-MT800 is required to operate
- *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 This unit has SD300 port, and needs EW-AD305 for connection with SD50 port unit
- *8 Only supported by E-TUBE PROJECT Cyclist
- *9 For front single models only. Cannot be used in combination with a front derailleur.

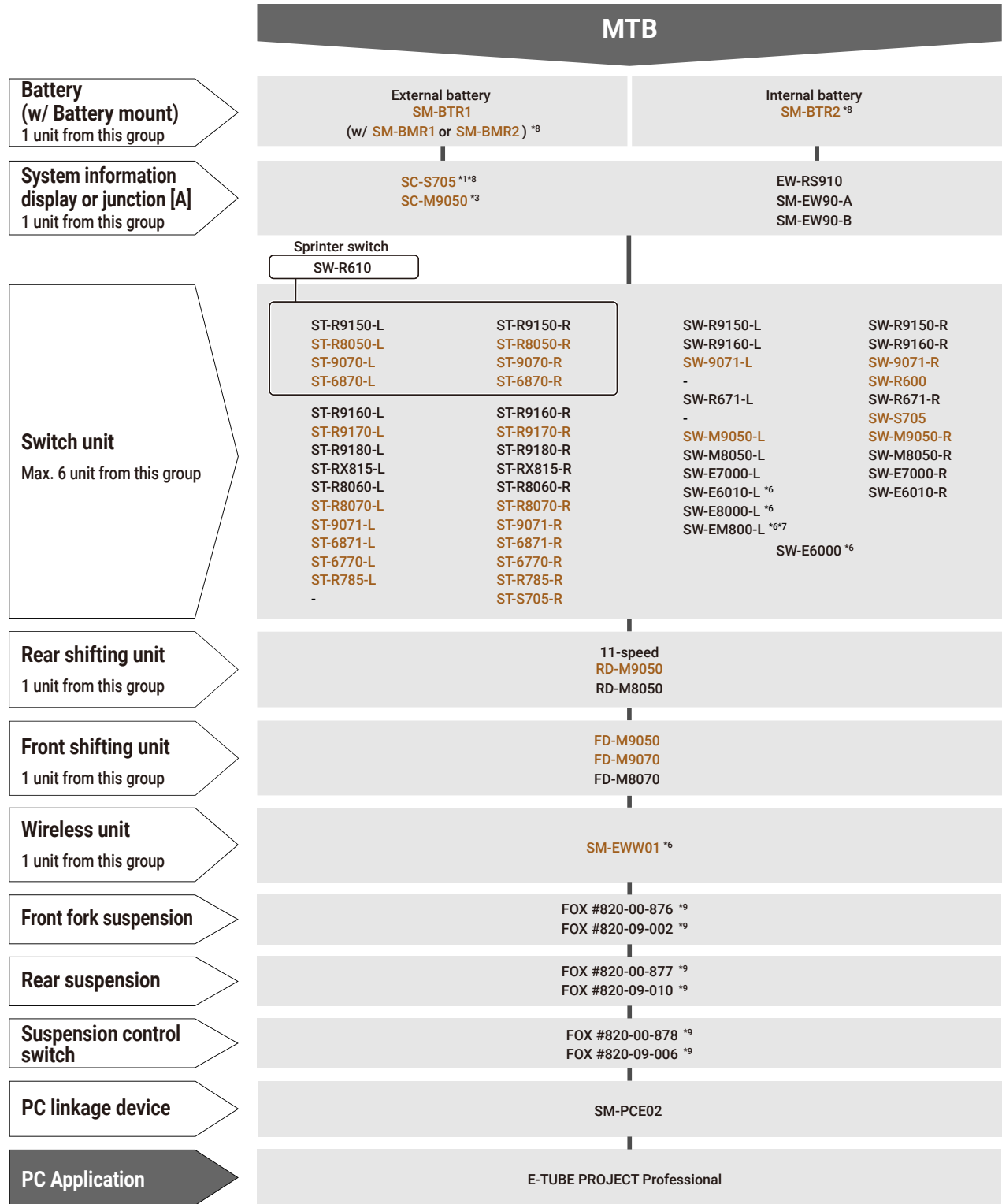
Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6

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 SD50 port for ST / SW.
- SC-S705 may not turn on the display by front shift switch.

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

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, MU-UR500 and MU-UR510 is not supported (need E-TUBE PROJECT to adjust)

*6 Need to change switch setting by E-TUBE PROJECT

*7 This unit has SD300 port, and needs EW-AD305 for connection with SD50 port unit

*8 Not supported by E-TUBE PROJECT Cyclist

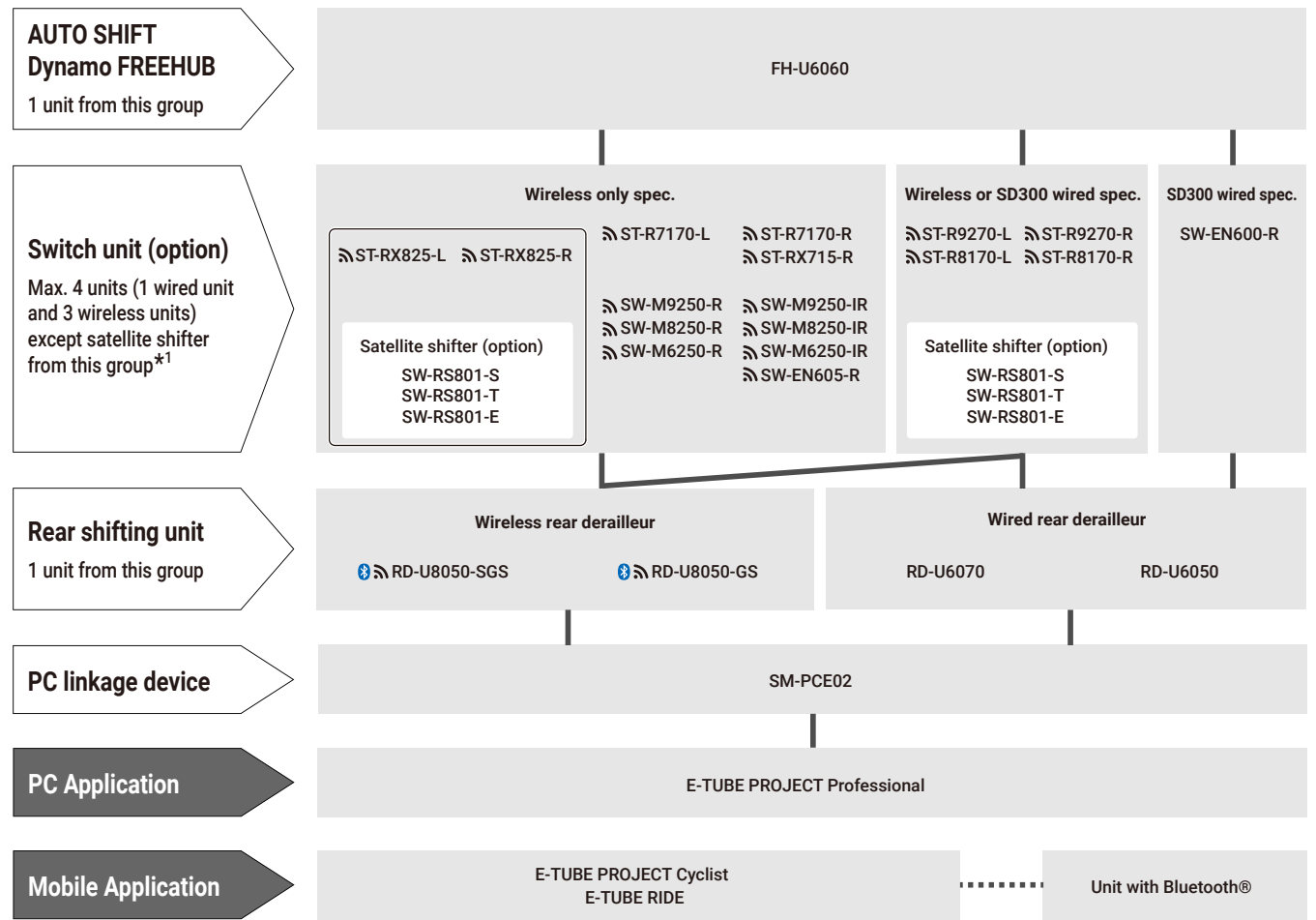
*9 Only supported by E-TUBE PROJECT Cyclist

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

Compatible App version

E-TUBE PROJECT Professional ver.5.4.4

Di2 with FH-U6060



Limitation of function with FH-U6060

- *1 The number of connectable wireless units paired by App is limited as follows:
- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
 - Switch unit: maximum of one SW-R/IR

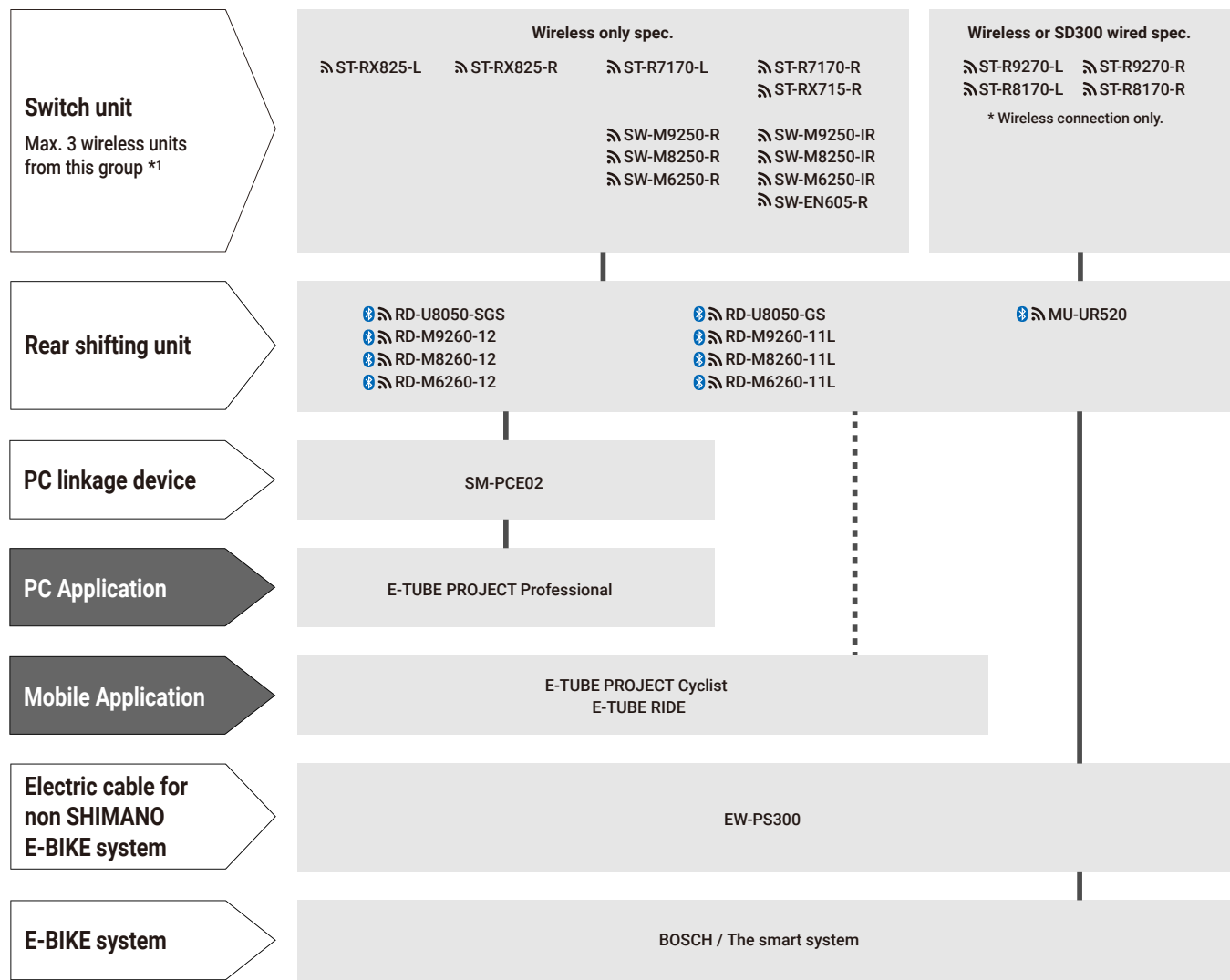
Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6

Di2 compatibility for 3rd party E-BIKE system

C-429

Di2 with EW-PS300



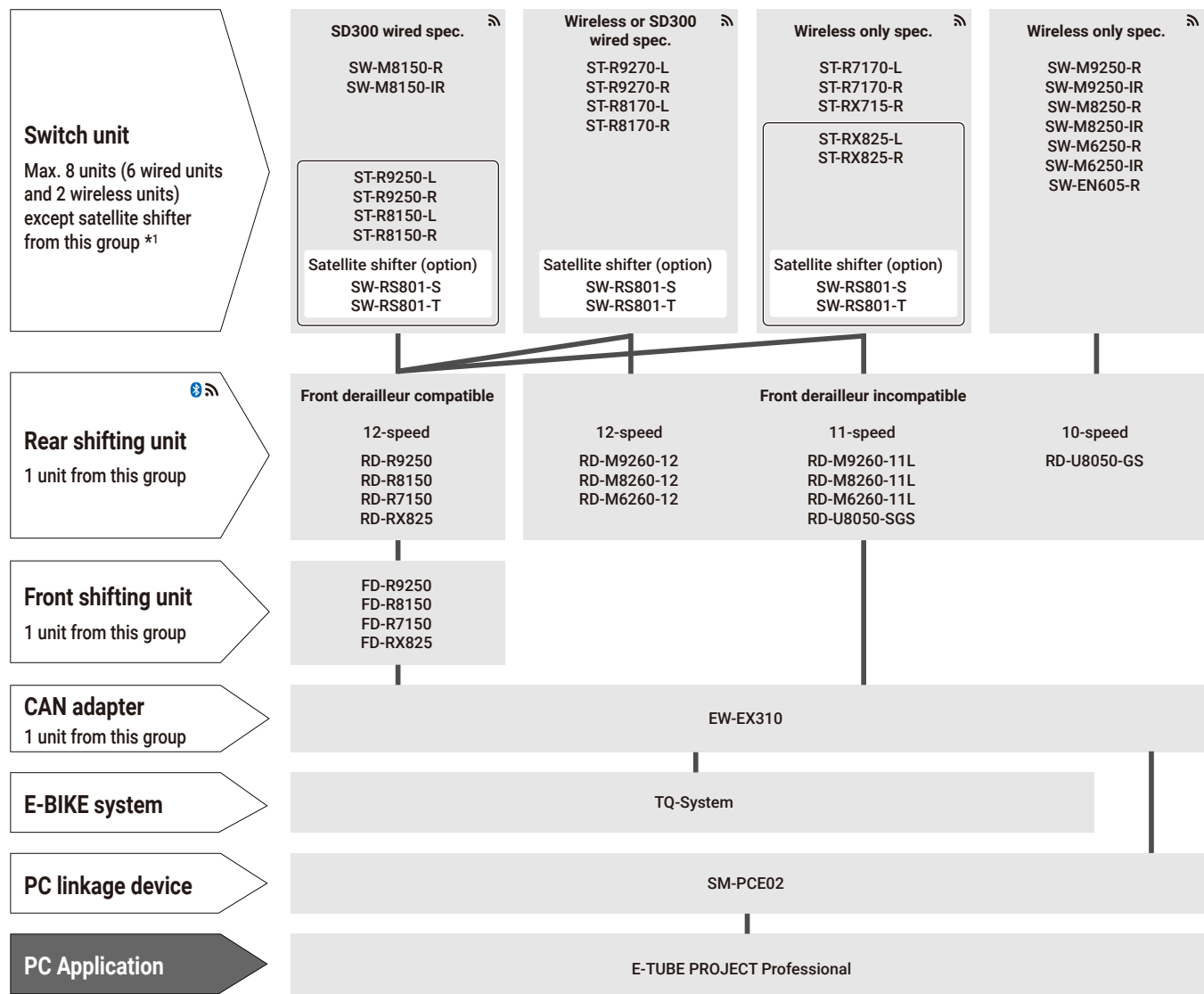
Limitation of function

- *1 The number of connectable wireless units paired by App is limited as follows:
- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
 - Switch unit: maximum of one SW-R/IR

Compatible App version

E-TUBE PROJECT Professional ver.5.4.4
E-TUBE PROJECT Cyclist ver.5.4.6

Di2 with EW-EX310 / E-TUBE PROJECT Professional



Limitation of function

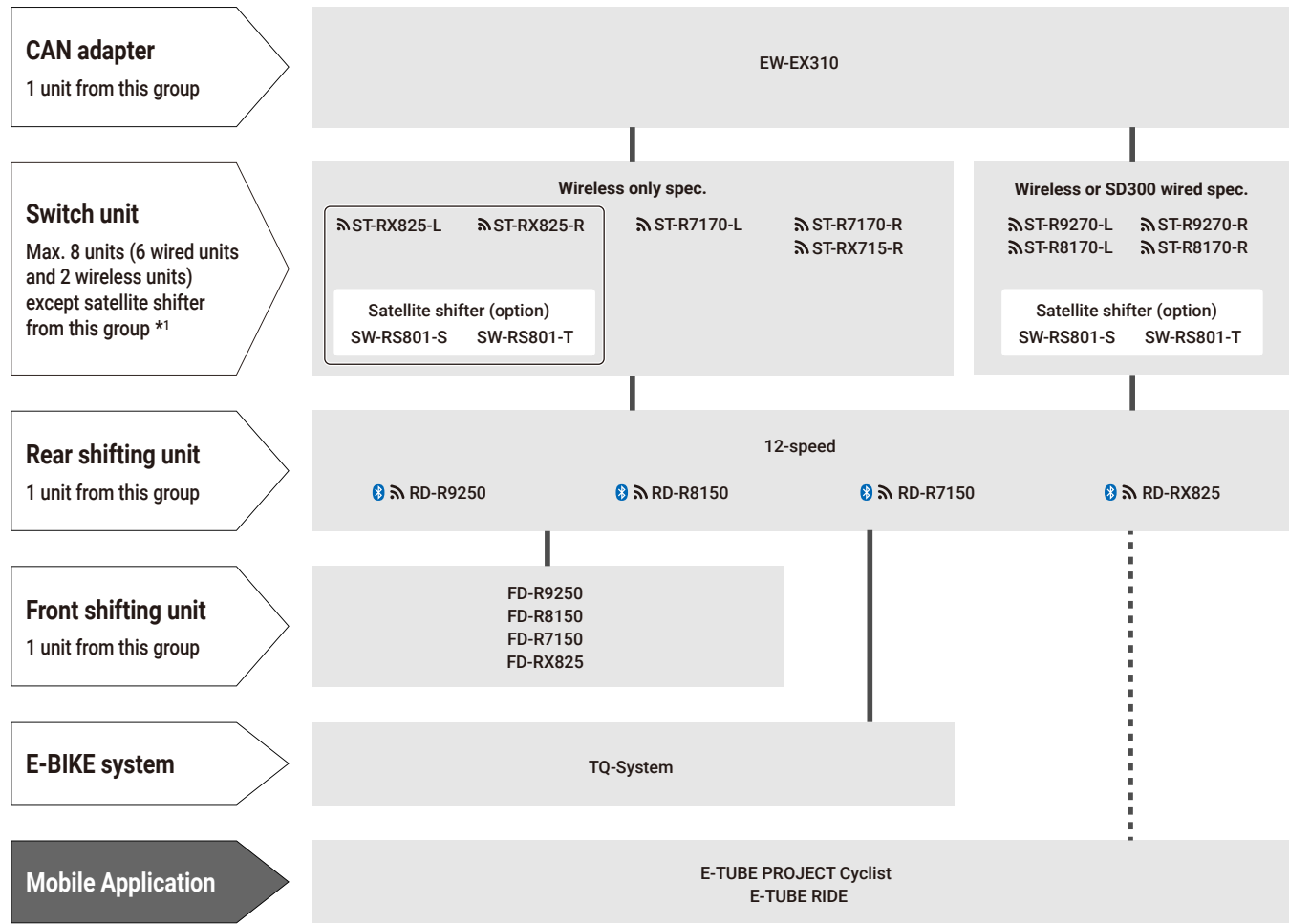
- *1 The number of connectable wireless units paired by App is limited as follows:
- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
 - Switch unit: maximum of one SW-R/IR

Compatible App version

E-TUBE PROJECT Professional ver.5.4.4

Di2 with EW-EX310 / E-TUBE PROJECT Cyclist

For ROAD/GRAVEL 12-speed (front derailleur compatible)



5. Compatibility

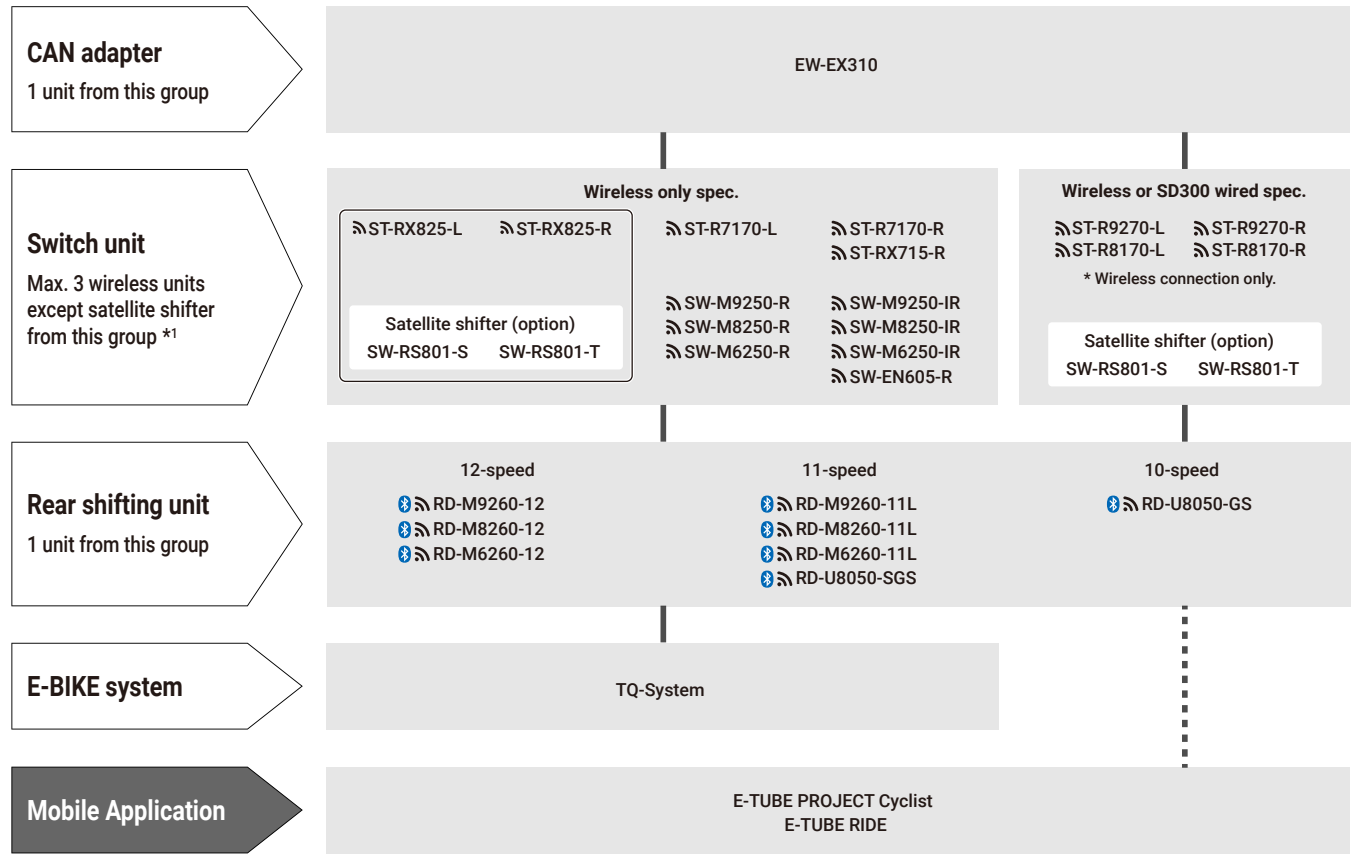
Limitation of function

*1 The number of connectable wireless units paired by App is limited as follows:
- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit

Compatible App version

E-TUBE PROJECT Cyclist ver.5.4.6

For MTB/GRAVEL 12/11-speed, LIFESTYLE 11/10-speed



Limitation of function

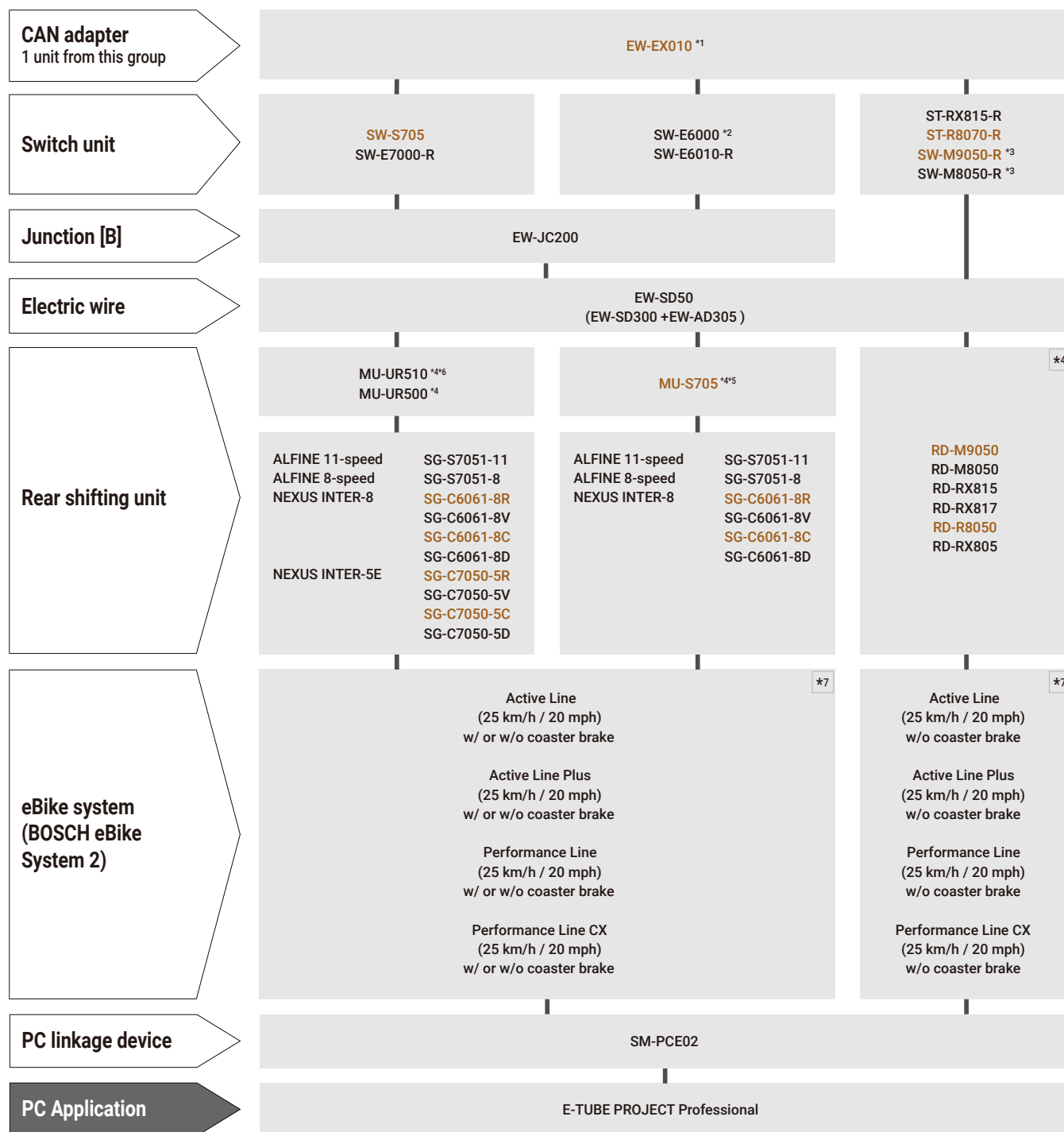
*1 The number of connectable wireless units paired by App is limited as follows:

- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
- Switch unit: maximum of one SW-R/IR

Compatible App version

E-TUBE PROJECT Cyclist ver.5.4.6

Di2 with EW-EX010



Limitation of function

- *1 EW-EX010 and BOSCH eBike system are connected by Y-harness which is provided by BOSCH
- *2 Need to change switch setting by E-TUBE PROJECT.
- *3 Cannot change manual gear shifting to automatic gear shifting and its opposite.
- *4 Automatic gear shifting is available only with internal geared hub by MU-S705 / MU-UR500 / MU-UR510. (Not available with rear derailleur)
- *5 Compatible with 8-speed and 11-speed internal geared hub system only.
- *6 This unit has SD300 port and needs EW-AD305 for connection with SD50 port unit.
- *7 No compatibility with "Classic+ Line" and "Performance Line (45 km/h)".

Compatible App version

E-TUBE PROJECT Professional ver.5.4.4

CI-DECK

C-547

Compatibility between Bracket and ID/SC

C-548

