



**2025-2026**

## **Products compatibility Information**

Compatibilities are subject to change without prior

**Visit SHIMANO PRODUCT WEBSITE for the latest information.**

# Word definitions

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

# Model no. color definitions

**XX-####** New models

**XX-####** Current line-up models

**XX-####** Discontinued models

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 C-434 C-558 C-780 C-435 C-436 C-437 C-438  
C-439 C-546

Front drivetrain compatibility [MTB, Trekking,  
LIFESTYLE]

C-440 C-559 C-441 C-442 C-445 C-446

Front derailleur and crankset

C-447

Front derailleur and chain line (TOURNEY)

C-448

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

C-449 C-450

## Drivetrain for ROAD, Gravel, LIFESTYLE components C-453

Rear drivetrain compatibility

C-454

Front drivetrain compatibility

C-455

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

Brake systems compatibility [ROAD, LIFESTYLE]

C-456

Hydraulic systems compatibility [ROAD, Gravel]

C-499

Hydraulic systems compatibility [URBAN, LIFESTYLE]

C-500

Compatibility of BL-U8000 with shifter

C-738

Compatibility of BL-UR405 with shifter

C-755

## I-SPEC C-156

Compatibility of I-SPEC shifter and brake lever

C-157

Compatibility of Shift Switch and I-SPEC brake lever

C-744

## Disc brake C-460

SHIMANO brake oil compatibility	C-736
Disc brake caliper and rotor compatibility	C-461
Compatibility of lock ring with hubs	C-612
Compatibility between brake systems (MT400 series)	C-606
Combination chart (mechanical disc brake)	C-462 C-463 C-464
Compatibility between hydraulic disc brake hose	C-186 C-732 C-733
Compatibility between banjo screw	C-625
Brake pad line-up	C-192 C-652 C-653
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## Rim brake C-200

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Brake shoe recommendation to rim width	C-202

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

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## Cassette C-544

FREEHUB and cassette spline compatibility	C-731
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LINKGLIDE cassette and FREEHUB compatibility	C-649

## ALFINE, NEXUS components C-470

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

C-471

Mechanical internal geared hub / SM (CJ) COMPATIBILITY CHART

C-647

Sprocket and chain combination

C-608

## CARGO BIKE related components C-651

Compatibility for DIN 79010:2020-02

C-672

## Spoke protector C-298

Spoke protector

C-491

MTB, Gravel, LIFESTYLE

C-299

ROAD, Gravel, METREA

C-300

Spoke protector for Road

C-302

## E-BIKE compatibility chart C-431

Compatibility chart of E-TUBE PROJECT Cyclist/Professional v5.4.4

C-525

Drivetrain compatibility

C-488 C-706 C-656 C-657 C-658  
C-659

Switch unit / cycle computer and brake lever compatibility

C-421

Battery and battery mount compatibility

C-511

System on/off function compatibility

C-629

Configuration of assist switch functions

C-781

Speed sensor compatibility

C-549

Battery and battery charger compatibility

C-562

ABS compatibility

C-715 C-774 C-775

## Electronic Product Information C-472

Compatibility chart of E-TUBE PROJECT Cyclist/Professional v5.4.4

C-473

Di2 compatibility for 3rd party E-BIKE system

C-429

## CI-DECK C-547

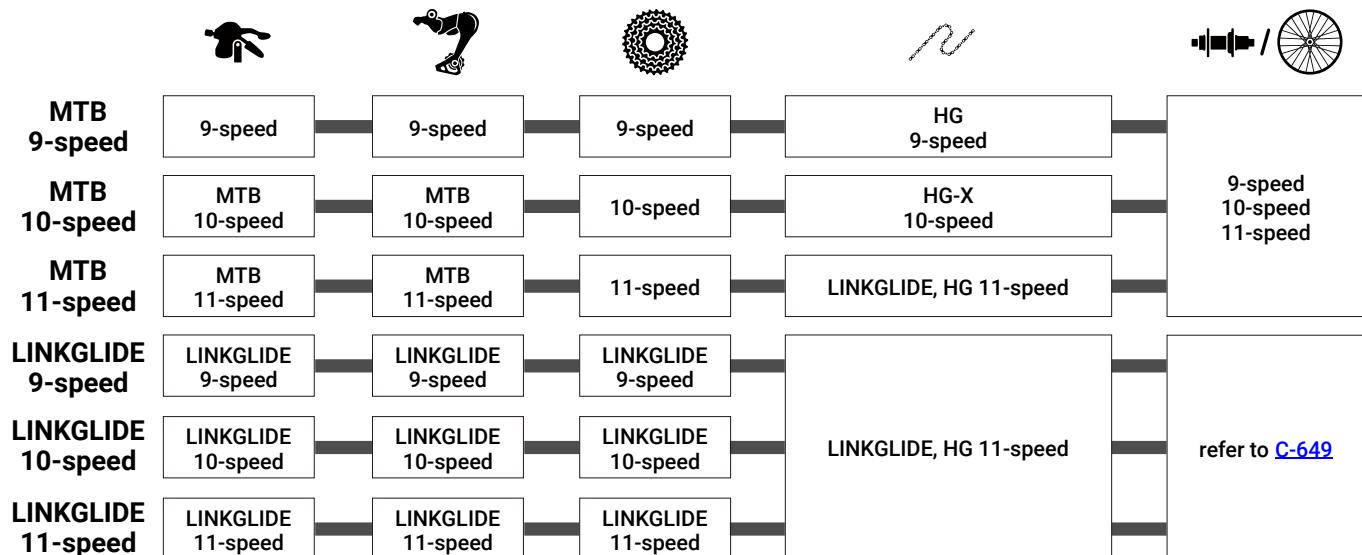
Compatibility between Bracket and ID/SC

C-548

## Rear drivetrain compatibility [MTB, LIFESTYLE]

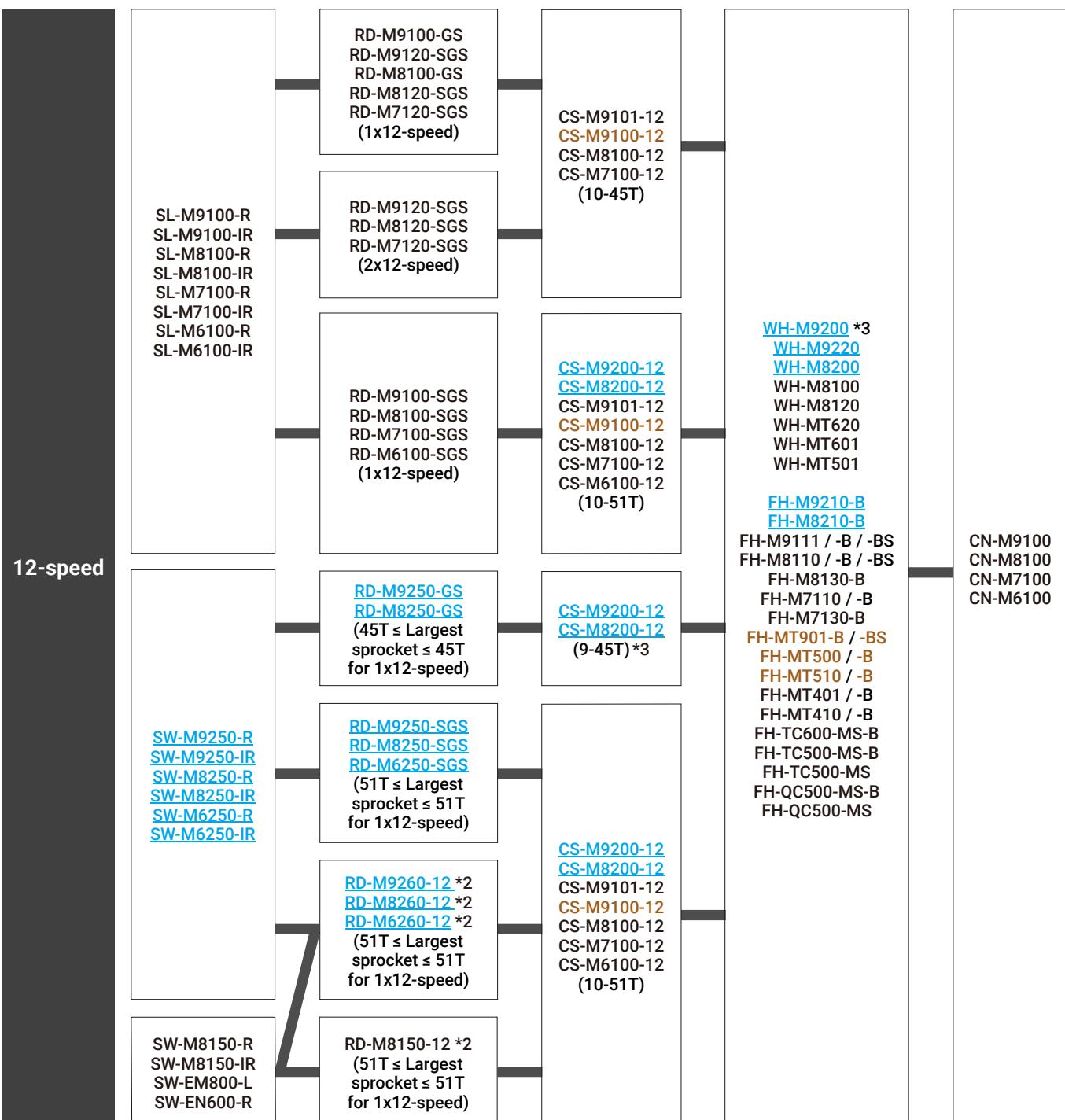
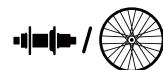
C-433

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



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

C-558



\*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-M6250](#) are compatible with all crankset for 12-speed with 55 mm chain line.



MTB  
Rear derailleur for  
12-speed

[RD-M9250-SGS](#)  
[RD-M9250-GS](#)  
[RD-M8250-GS](#)  
[RD-M8250-SGS](#)  
[RD-M6250-SGS](#)



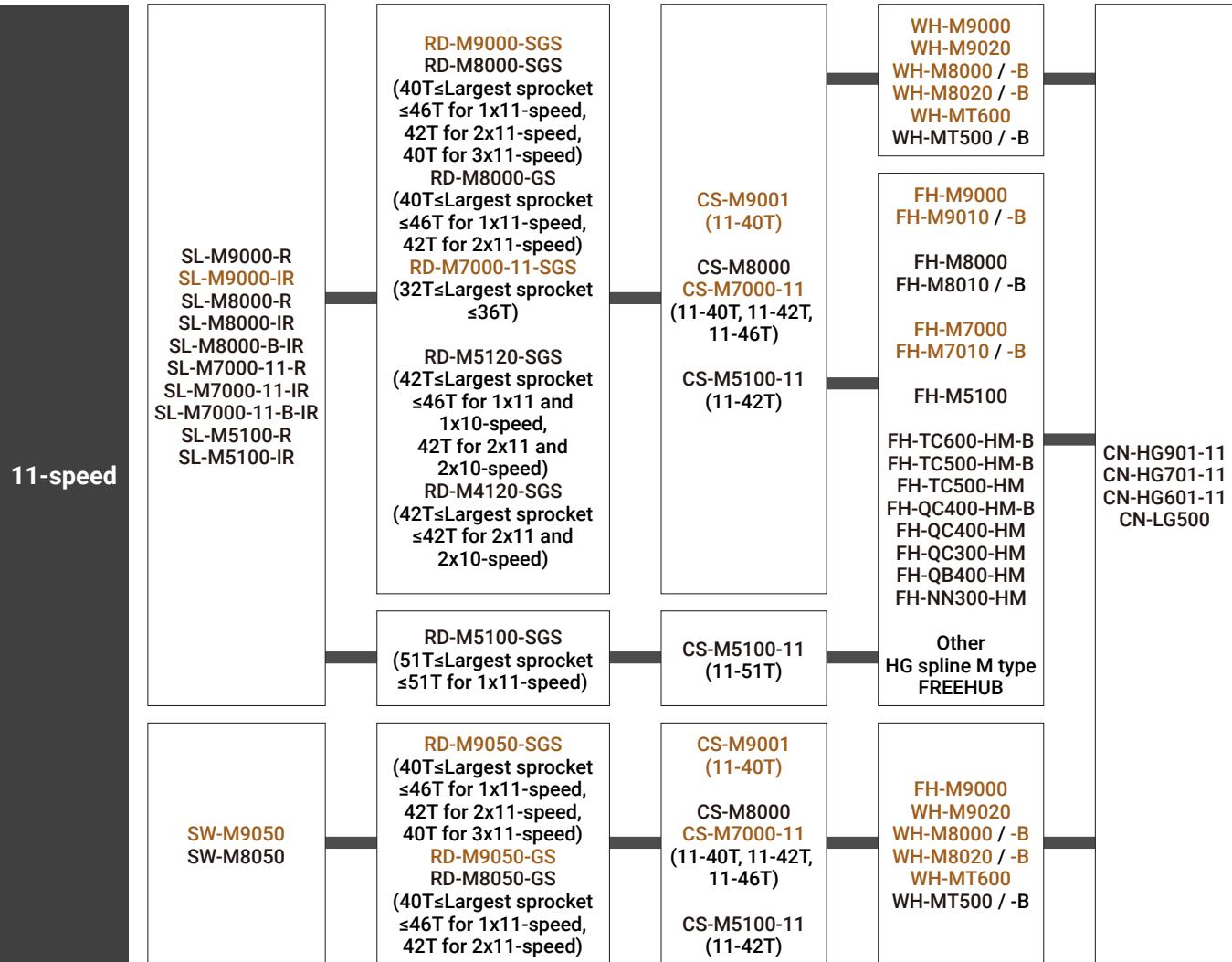
MTB  
Crankset for 12-speed  
drivetrain with 55mm chain  
line

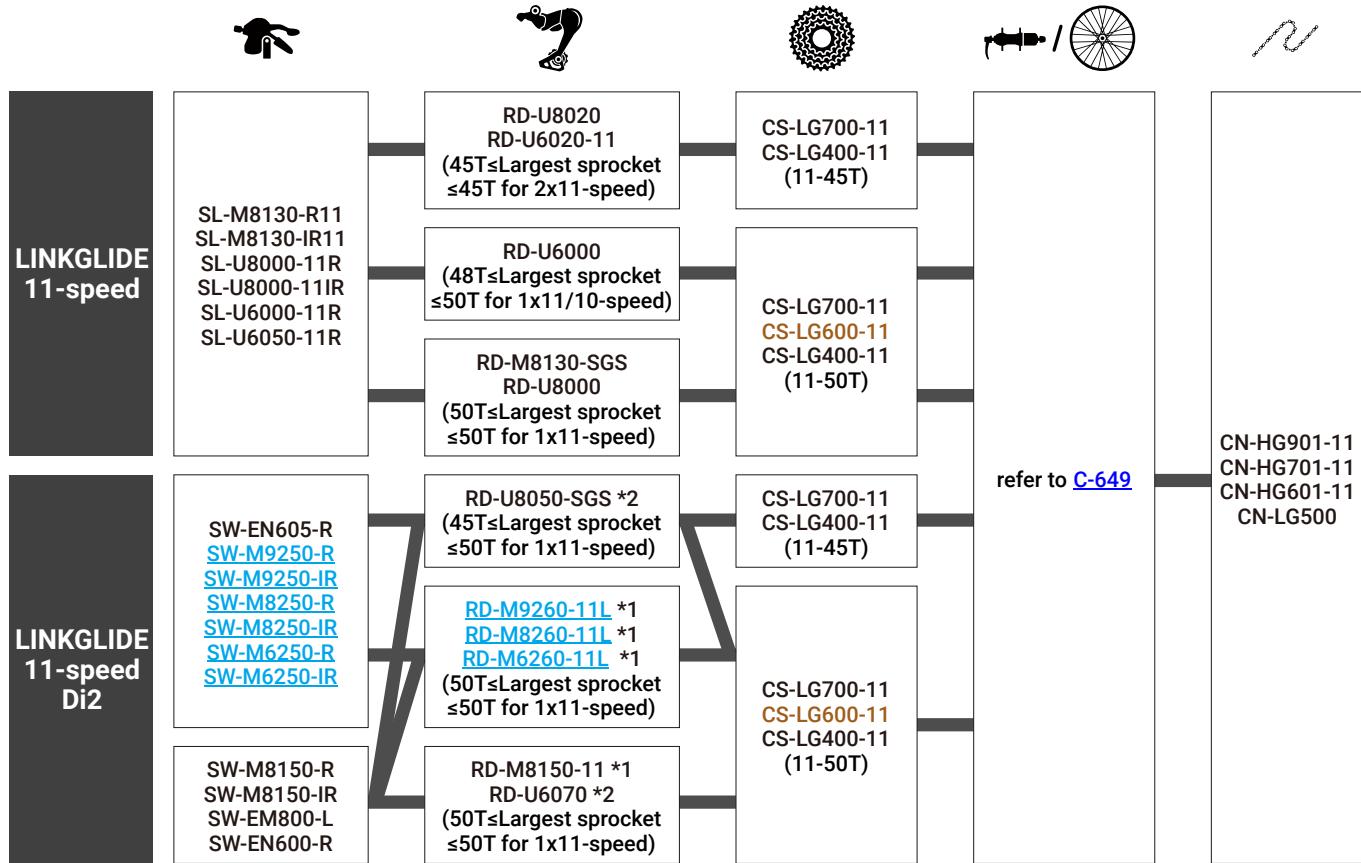
[FC-M9200](#)  
[FC-M9220](#)  
[FC-M8200](#)

FC-M9125  
FC-M8120  
FC-M7120  
FC-M6120  
FC-MT512

# 11-speed rear drivetrain [MTB, LIFESTYLE]

C-435



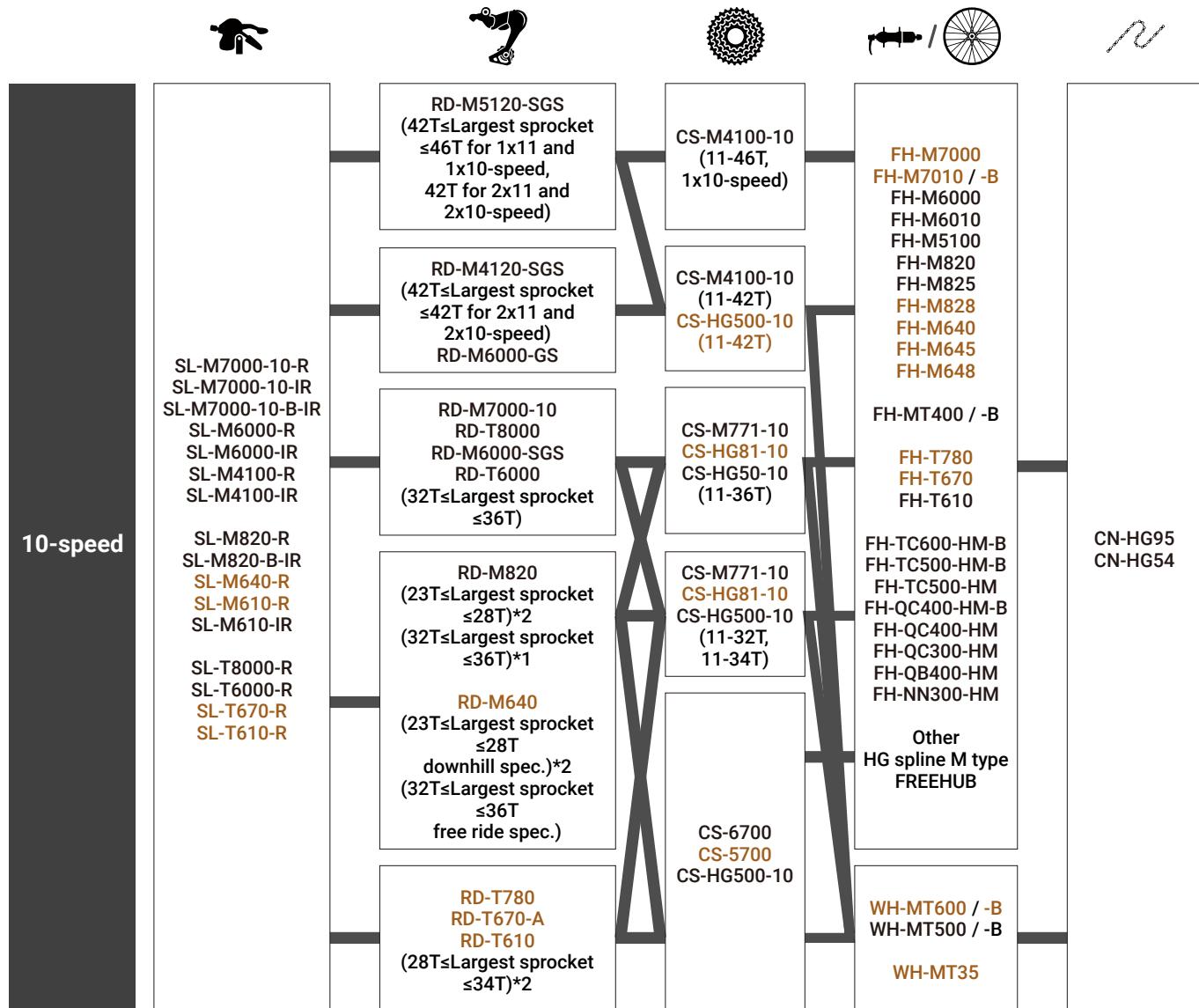


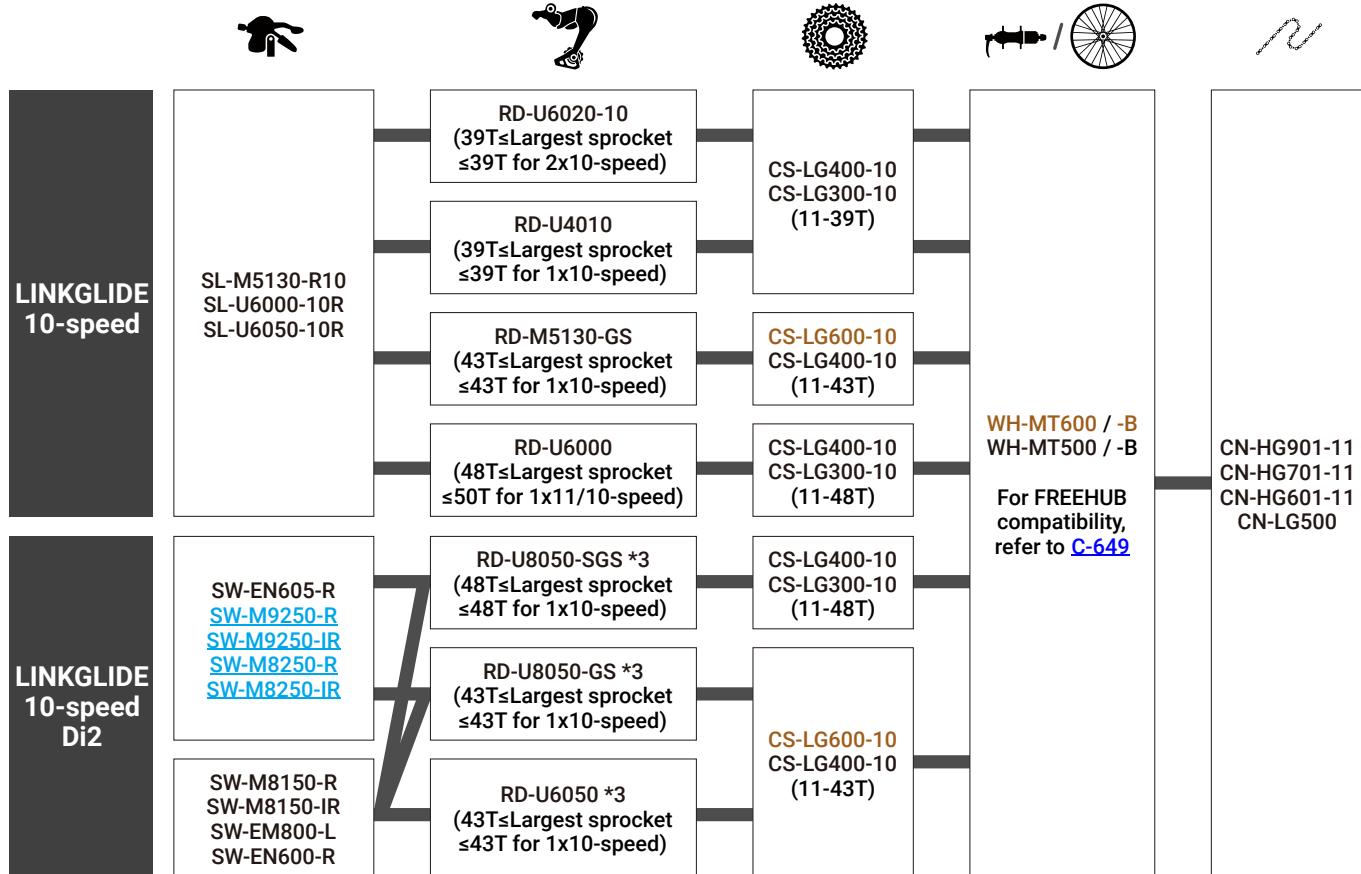
\*1 Only for E-BIKE

\*2 For E-BIKE or Q'AUTO ([FH-U6060](#)) bike

# 10-speed rear drivetrain [MTB, LIFESTYLE]

C-436





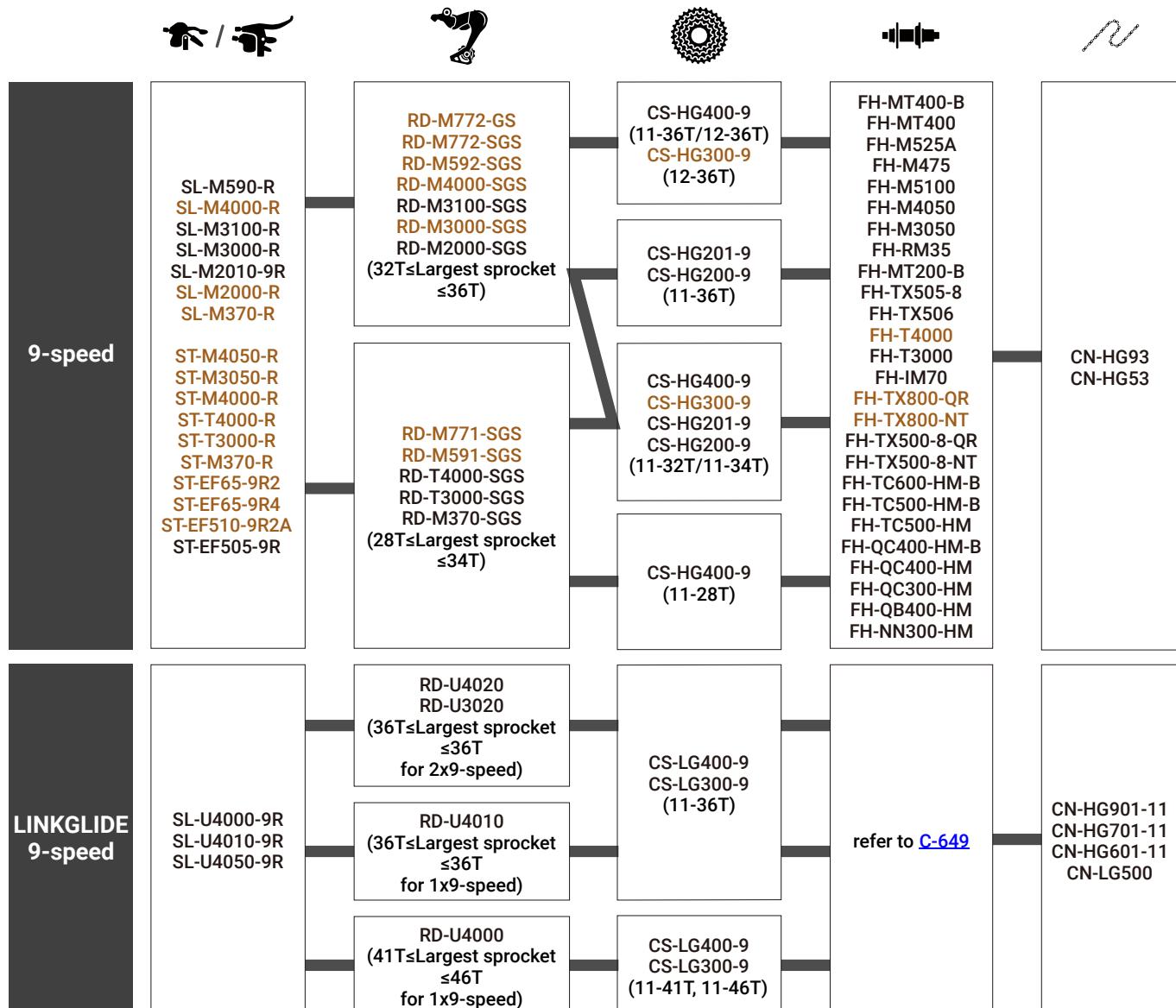
\*1 Mode converter

\*2 Compatible with ROAD cassette

\*3 For E-BIKE or Q'AUTO ([FH-U6060](#)) bike

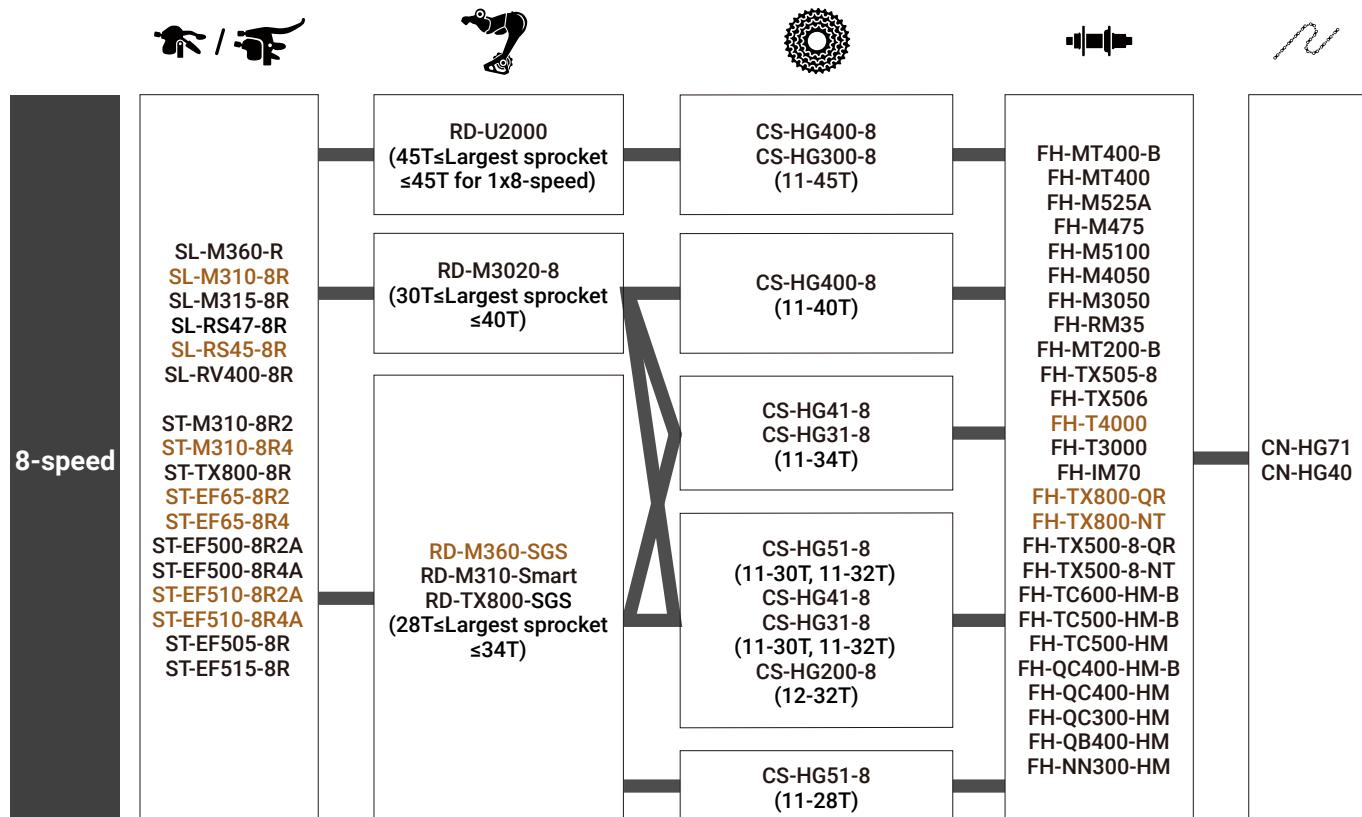
# 9-speed rear drivetrain [MTB, LIFESTYLE]

C-437



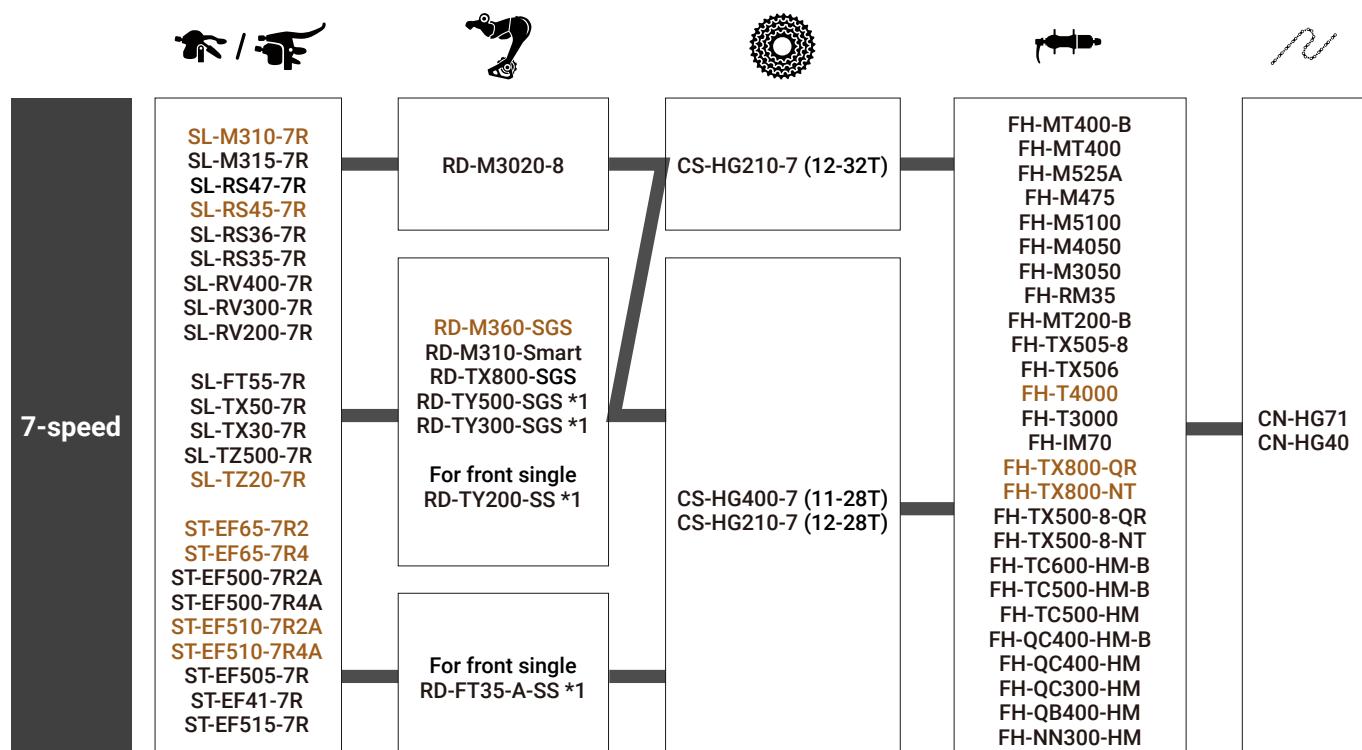
## 8-speed rear drivetrain [MTB] C-438

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



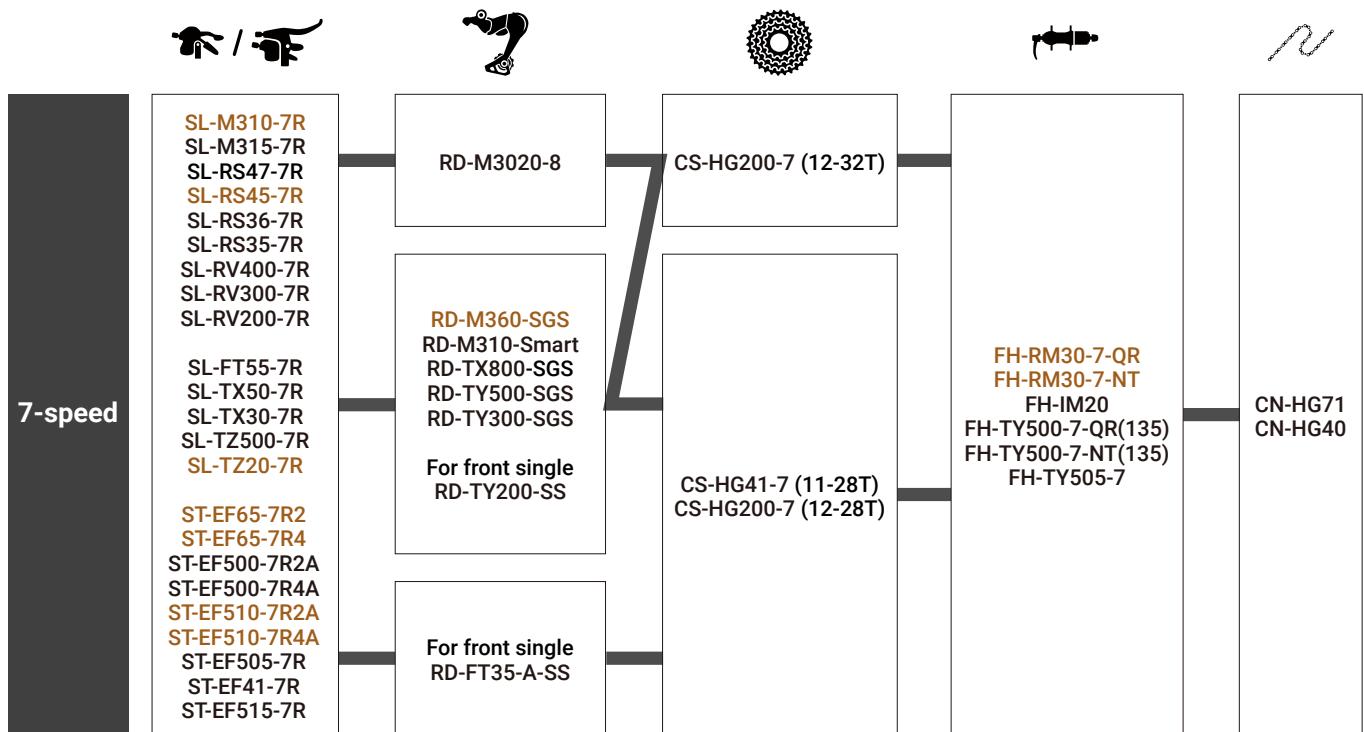
## 7-speed rear drivetrain [MTB] C-439

Cassette - HG spline M FREEHUB spec.

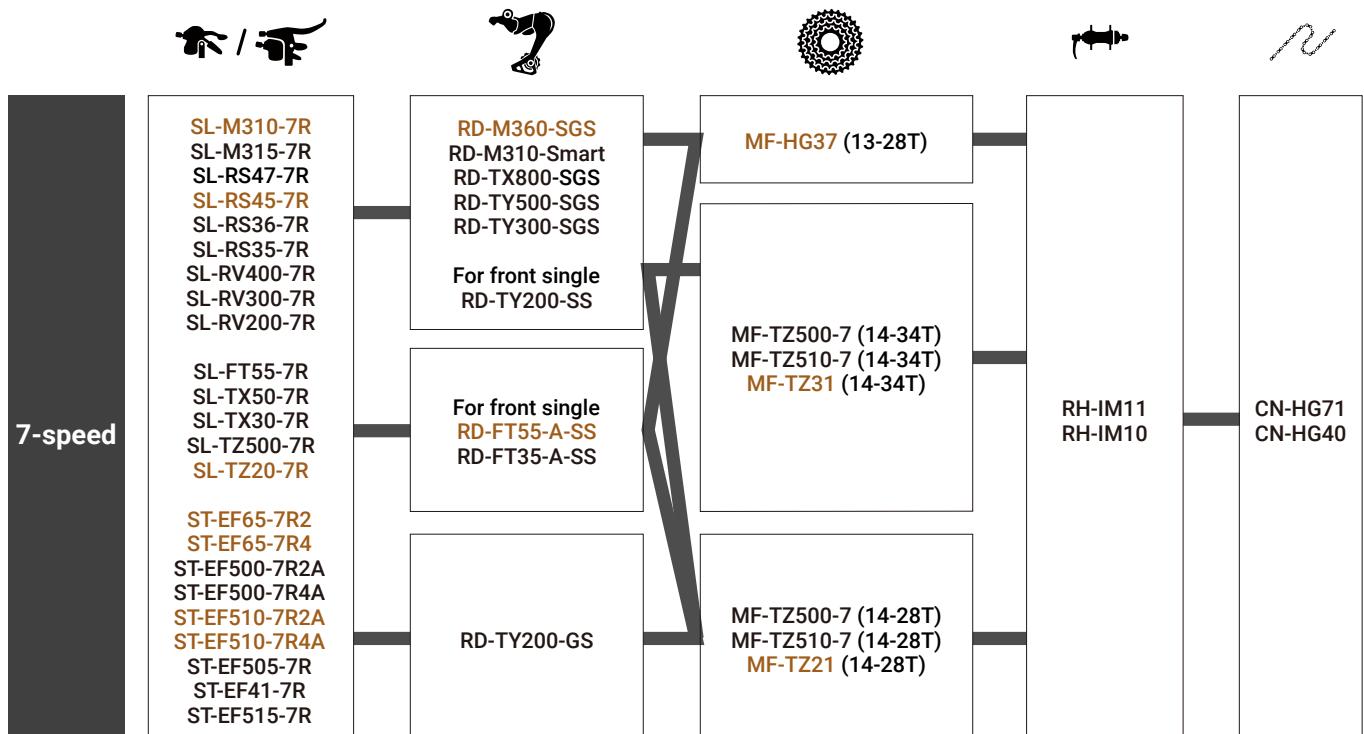


\*1 Direct attachment type only

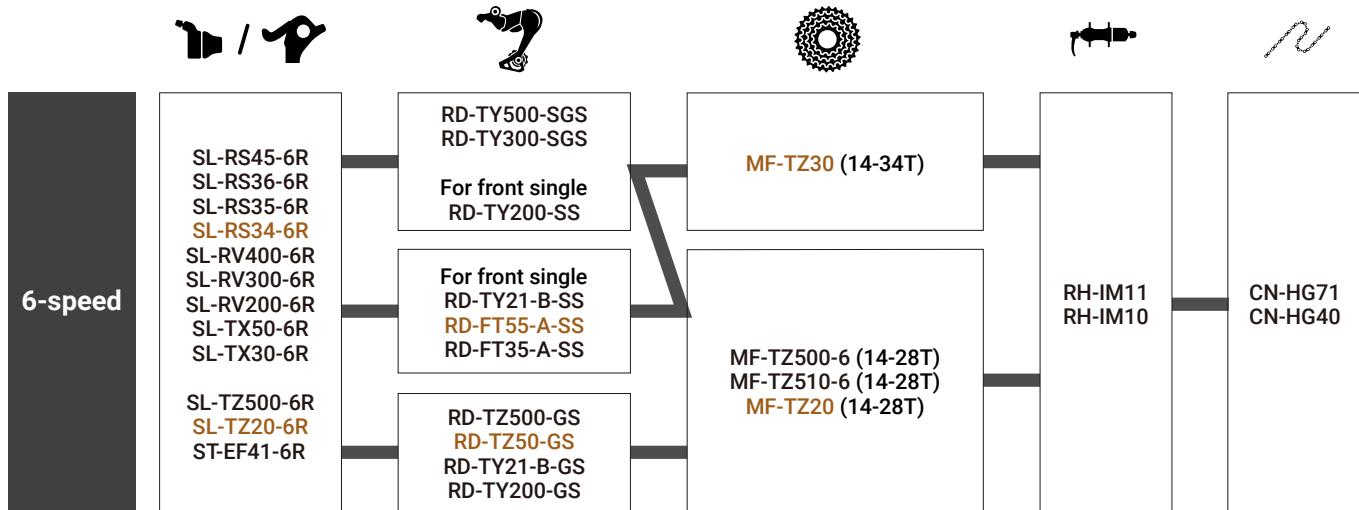
## Cassette - HG spline S FREEHUB spec.



## Multiple freewheel - Rear hub spec.



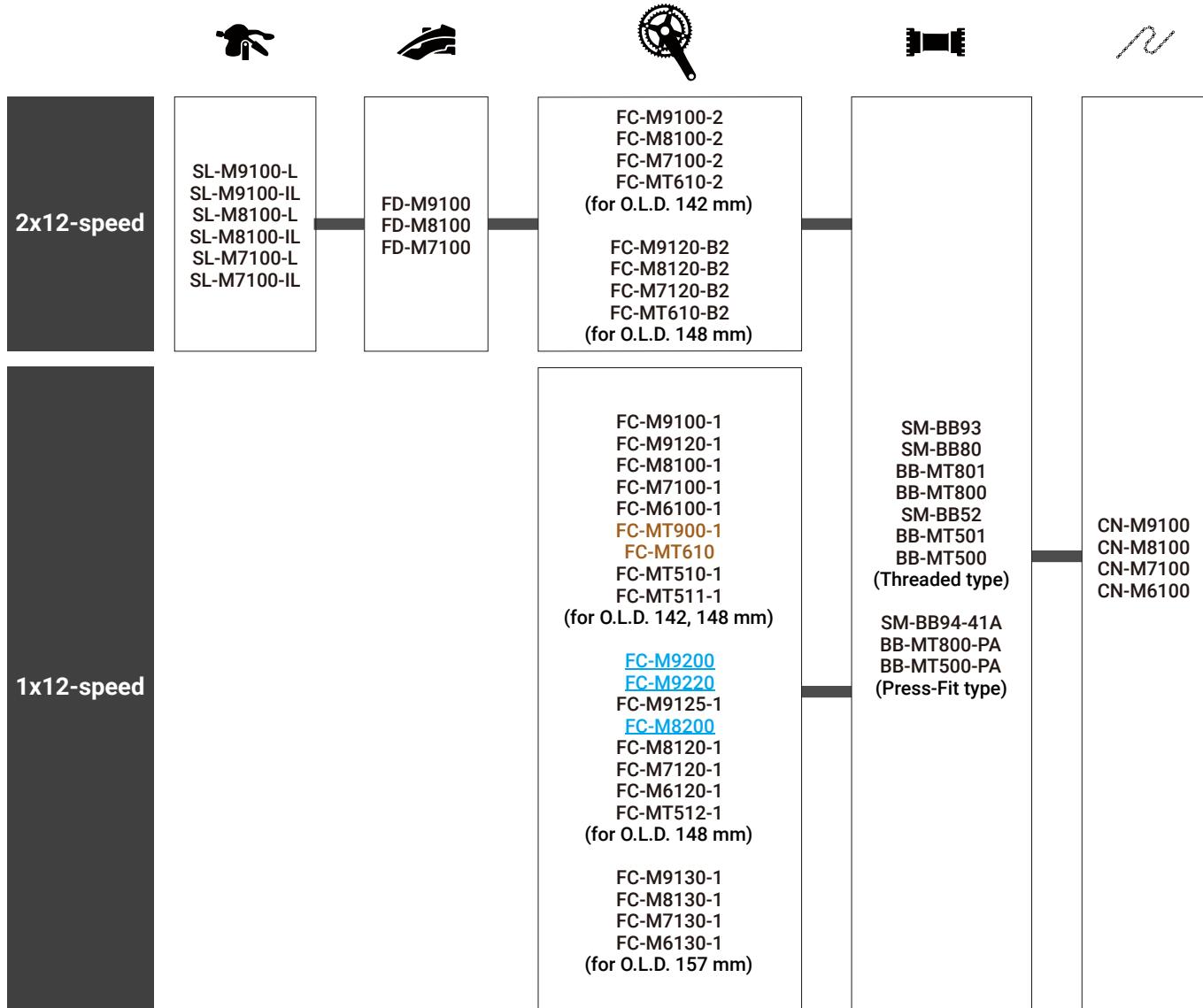
## 6-speed rear drivetrain [MTB] C-546



## Front drivetrain compatibility [MTB, Trekking, LIFESTYLE]

C-440

### 12-speed front drivetrain [MTB] C-559

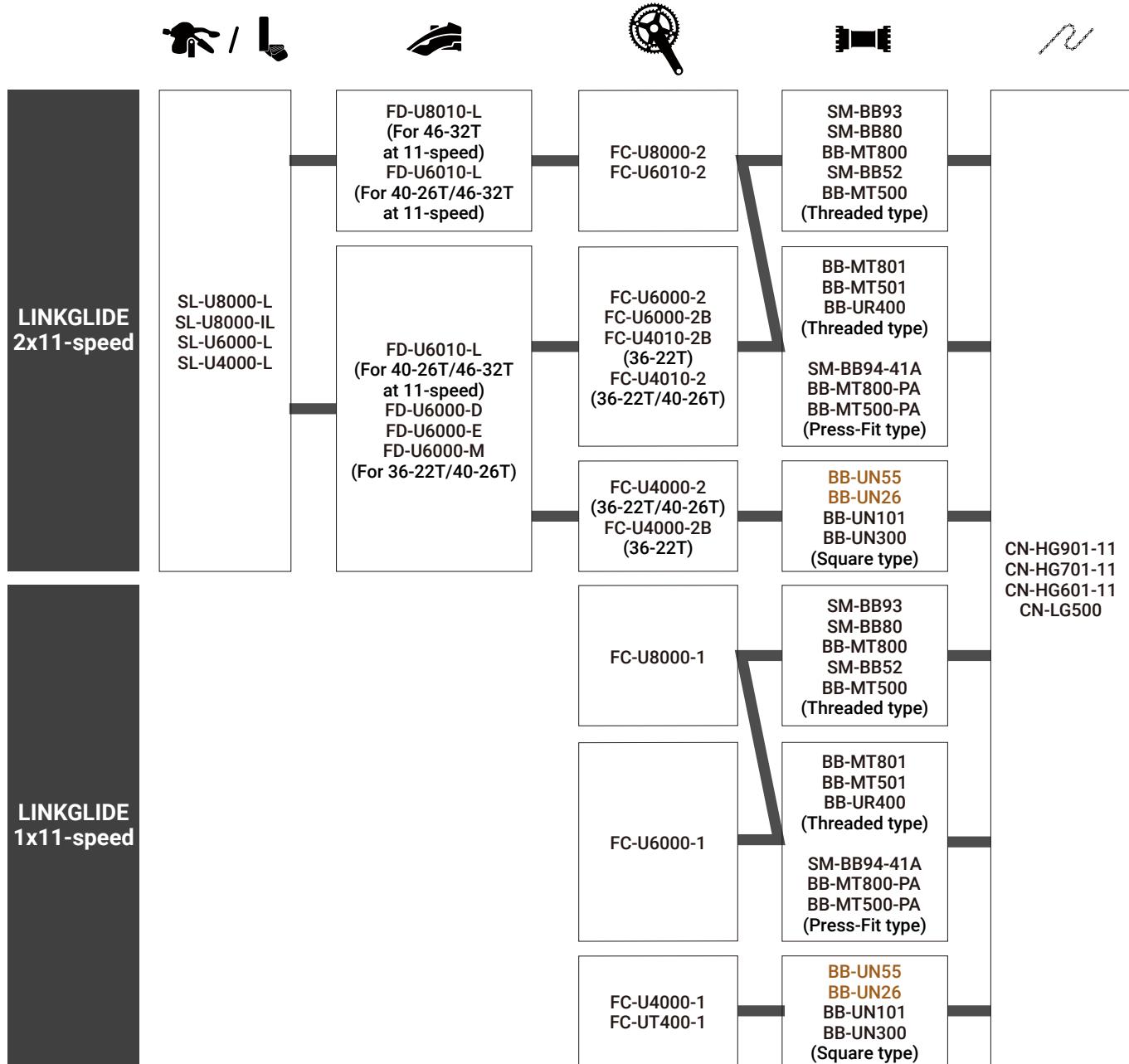


# 11-speed front drivetrain [MTB, LIFESTYLE]

C-441

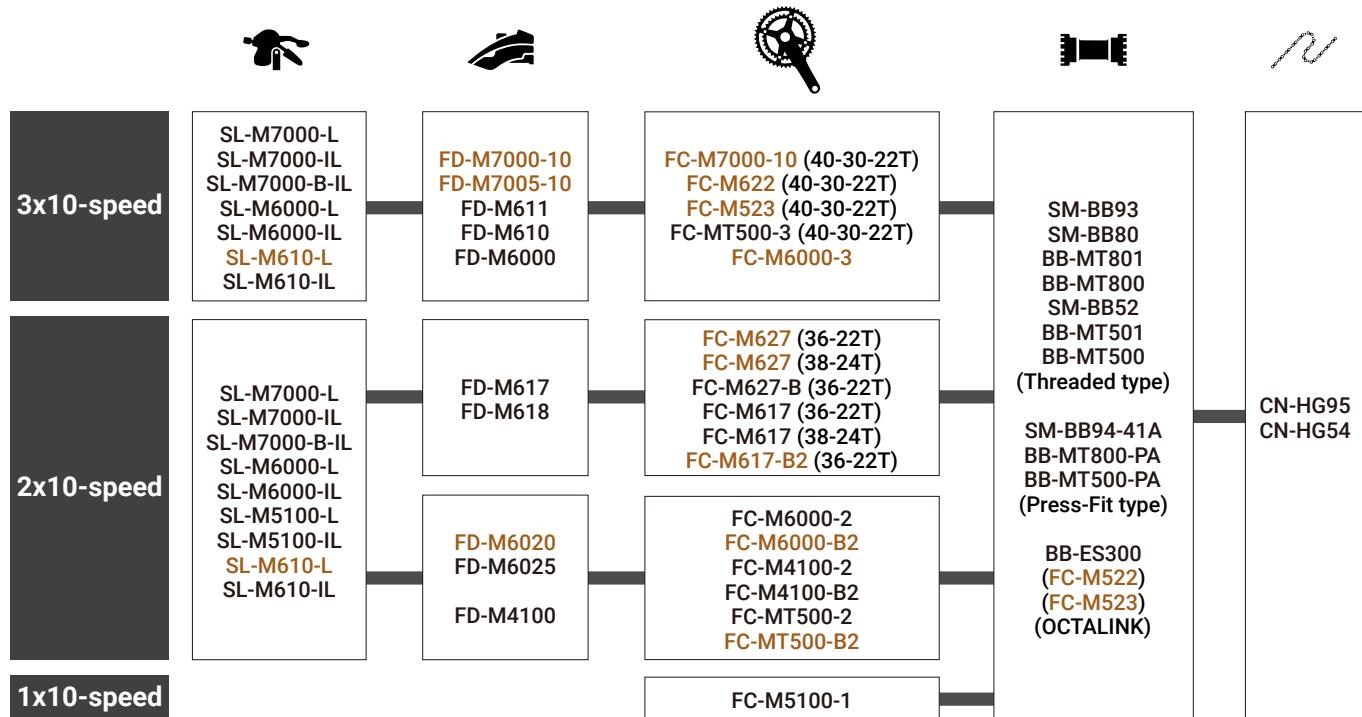


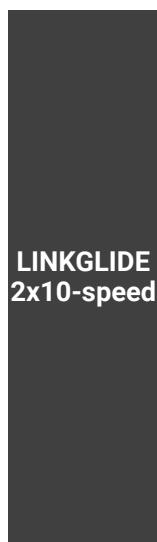
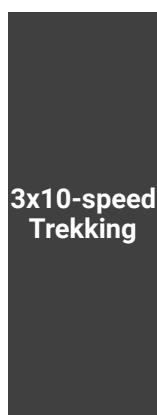
<b>3x11-speed</b>	SL-M9000-L SL-M9000-IL SL-M8000-L SL-M8000-IL SL-M8000-B-IL SL-M7000-L SL-M7000-IL SL-M7000-B-IL	FD-M9000 FD-M8000	FC-M9020-3 FC-M8000-3		
	<b>SW-M9050</b> SW-M8050	<b>FD-M9050</b>			
<b>2x11-speed</b>	SL-M9000-L SL-M9000-IL SL-M8000-L SL-M8000-IL SL-M8000-B-IL SL-M7000-L SL-M7000-IL SL-M7000-B-IL SL-M5100-L SL-M5100-IL	FD-M9020 FD-M9025 FD-M8020 FD-M8025 <b>FD-M7020-11</b> FD-M7025-11	FC-M9000-2 FC-M9020-2 FC-M9020-B2* <b>FC-M8000-2</b> FC-M8000-B2* <b>FC-M7000-2</b> <b>FC-M7000-B2*</b> FC-M5100-2 FC-M5100-B2* <b>FC-MT700-2</b> FC-MT700-B2* FC-MT600-2 <b>FC-MT600-B2*</b>	SM-BB93 SM-BB80 BB-MT801 BB-MT800 SM-BB52 BB-MT501 BB-MT500 (Threaded type)	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-LG500
	<b>SW-M9050</b> SW-M8050	<b>FD-M9070</b> FD-M8070		SM-BB94-41A BB-MT800-PA BB-MT500-PA (Press-Fit type)	
<b>1x11-speed</b>			FC-M9000-1 FC-M9020-1 FC-M9020-B1* FC-M8000-1 FC-M8000-B1* FC-M7000-1 <b>FC-M7000-B1*</b> FC-M5100-1		



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

C-442





### 3x10-speed Trekking

SL-T8000-L  
SL-M780-L  
SL-M780-B-L  
**SL-T670-L**  
**SL-M670-L**  
SL-M670-B-IL  
**SL-T610-L**  
**SL-M610-L**  
SL-M610-IL  
**SL-M591-L**  
SL-T6000-L

FD-T8000-3  
FD-T8000-6  
**FD-T670-3**  
FD-T670-6  
FD-T671-3  
FD-T610-3  
FD-T610-6  
FD-T611-3  
FD-T6000-3  
FD-T6000-6

FC-T8000 (48-36-26T)  
**FC-T780** (48-36-26T)  
**FC-T781** (44-32-24T)  
**FC-T781** (48-36-26T)  
**FC-M610** (48-36-26T)  
**FC-T611** (44-32-24T)  
**FC-T611** (48-36-26T)  
FC-T6010 (44-32-24T)  
FC-T6010 (48-36-26T)  
FC-T551 (44-32-24T)  
FC-T551 (48-36-26T)  
FC-T521 (44-32-24T)  
FC-T521 (48-36-26T)

SM-BB93  
BB-MT801  
BB-MT800  
SM-BB52  
BB-MT501  
BB-MT500  
(Threaded type)  
SM-BB94-41A  
BB-MT800-PA  
BB-MT500-PA  
(Press-Fit type)  
BB-ES300  
(FC-T521)  
(OCTALINK)

CN-M981  
CN-M980  
CN-HG95  
CN-HG94  
CN-HG75  
CN-HG74  
CN-HG54

### LINKGLIDE 2x10-speed

SL-U8000-L  
SL-U8000-IL  
SL-U6000-L  
SL-U4000-L

FD-U8010-L  
(For 46-30T  
at 10-speed)  
FD-U6010-L  
(For 46-30T  
at 10-speed)

FD-U6000-D  
FD-U6000-E  
FD-U6000-M  
FD-U4000-L  
FD-U4000-D  
FD-U4000-E  
FD-U4000-M  
(For 36-22T/40-26T)

FC-U6000-2  
FC-U4010-2  
(46-30T)

FC-U6000-2  
FC-U6000-2B  
FC-U4010-2B  
(36-22T)

FC-U4010-2  
(36-22T/40-26T)  
FC-U4000-2B  
(36-22T)

BB-MT801  
BB-MT501  
BB-UR400  
(Threaded type)

SM-BB94-41A  
BB-MT800-PA  
BB-MT500-PA  
(Press-Fit type)

BB-UN55  
BB-UN26  
BB-UN101  
BB-UN300  
(Square type)

CN-HG901-11  
CN-HG701-11  
CN-HG601-11  
CN-LG500

### LINKGLIDE 1x10-speed

FC-U8000-1

FC-U6000-1

FC-U4000-1  
FC-UT400-1

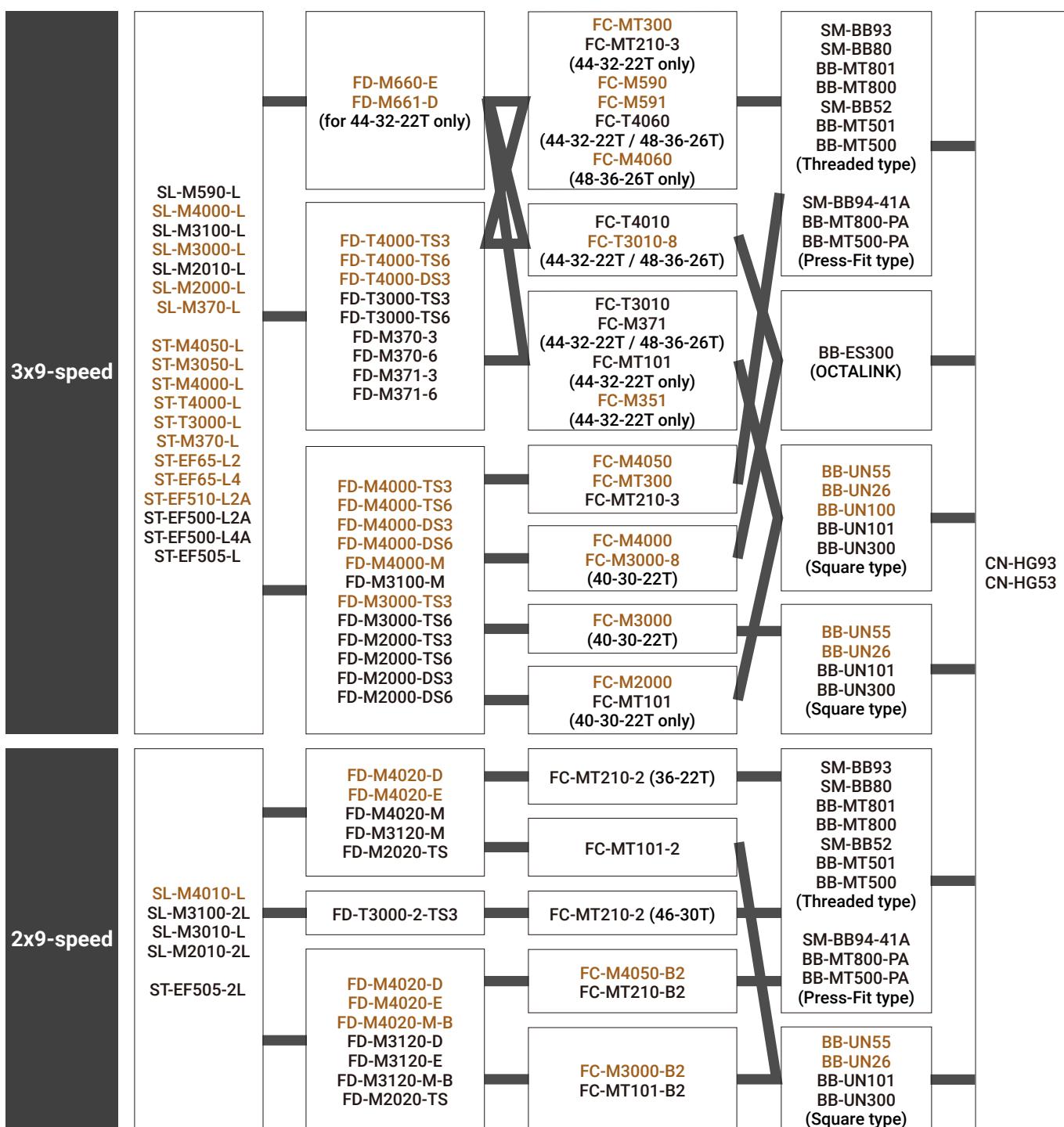
SM-BB93  
SM-BB80  
BB-MT800  
SM-BB52  
BB-MT500  
(Threaded type)

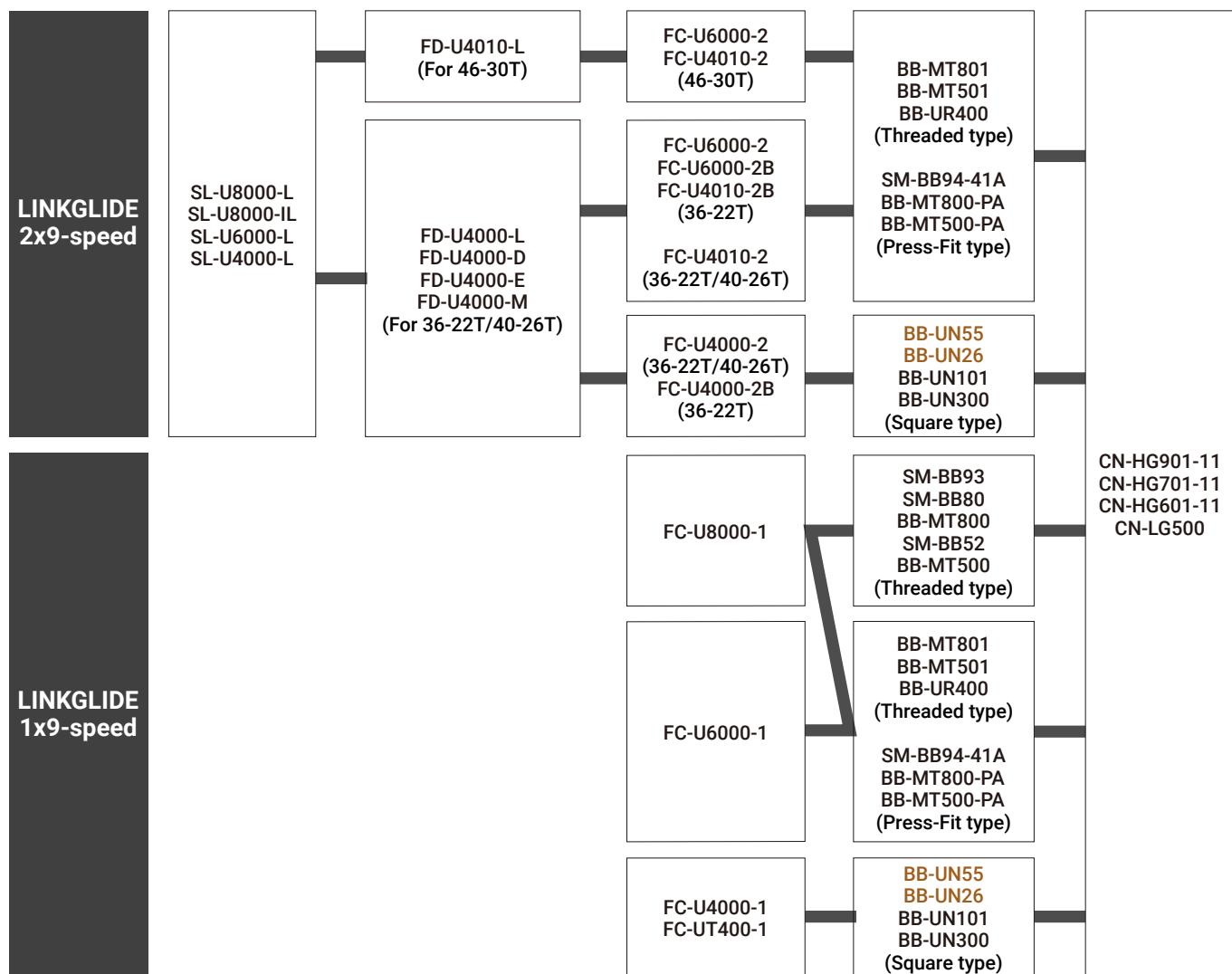
BB-MT801  
BB-MT501  
BB-UR400  
(Threaded type)  
SM-BB94-41A  
BB-MT800-PA  
BB-MT500-PA  
(Press-Fit type)

BB-UN55  
BB-UN26  
BB-UN101  
BB-UN300  
(Square type)

# 9-speed front drivetrain [MTB, LIFESTYLE]

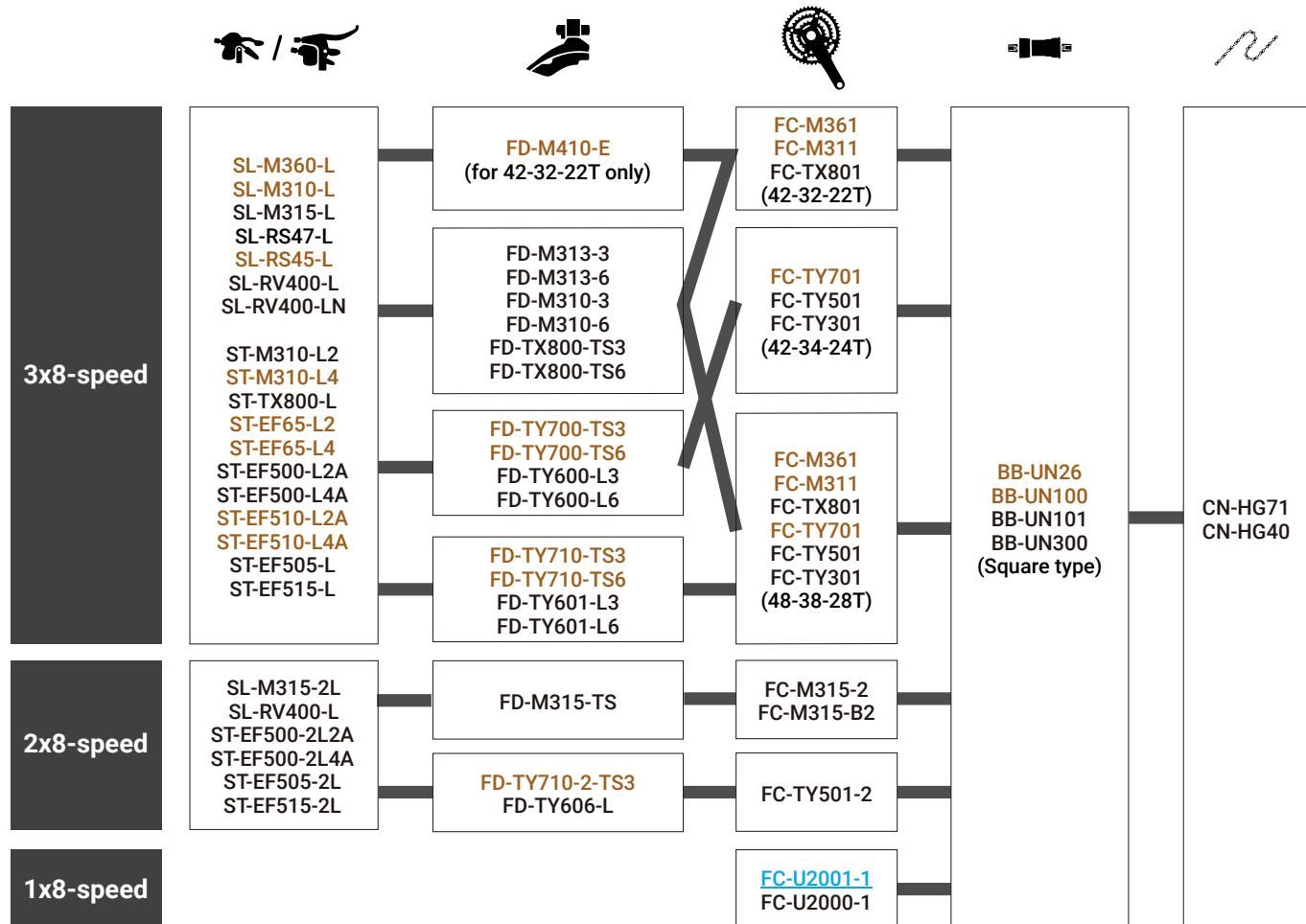
C-445

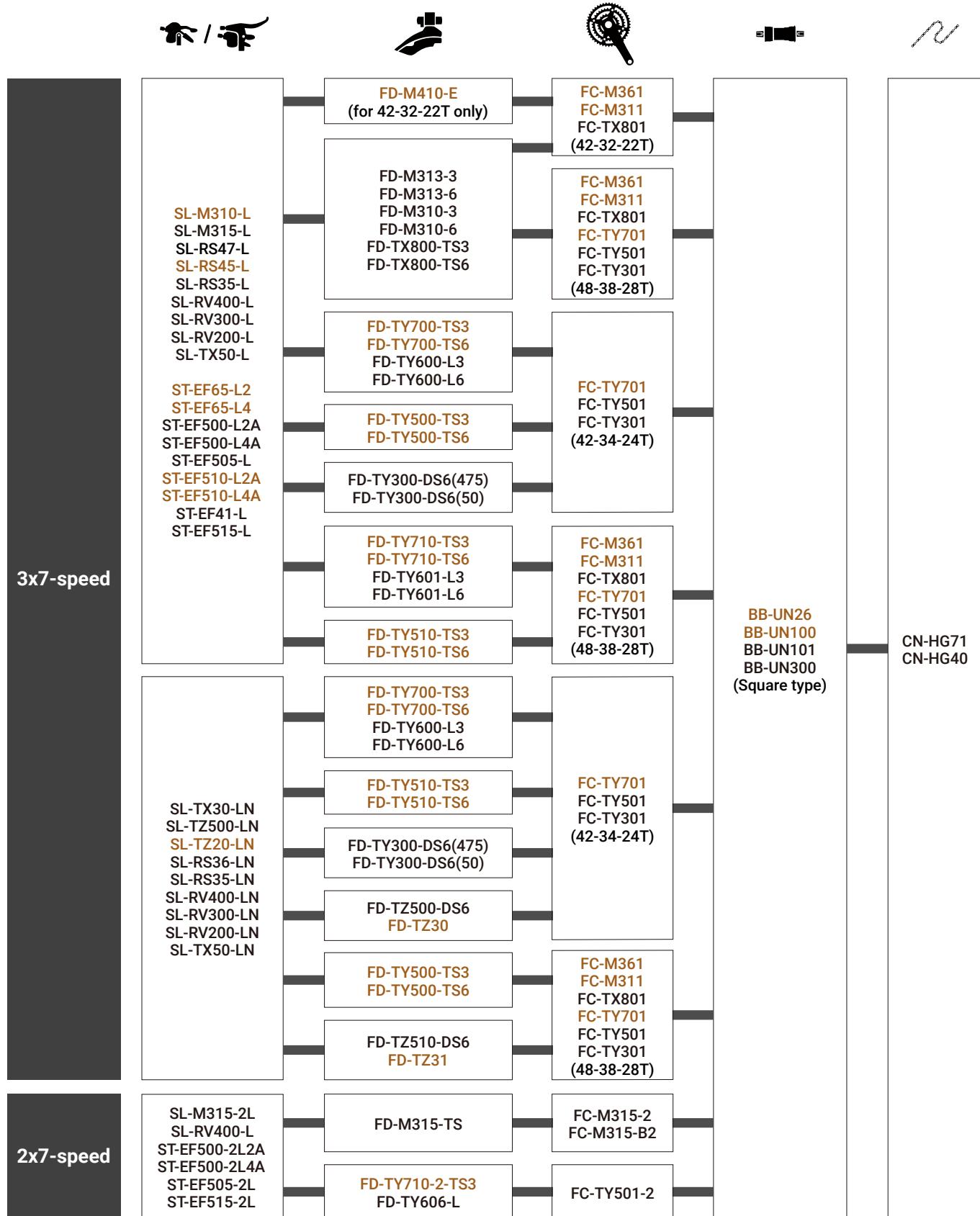


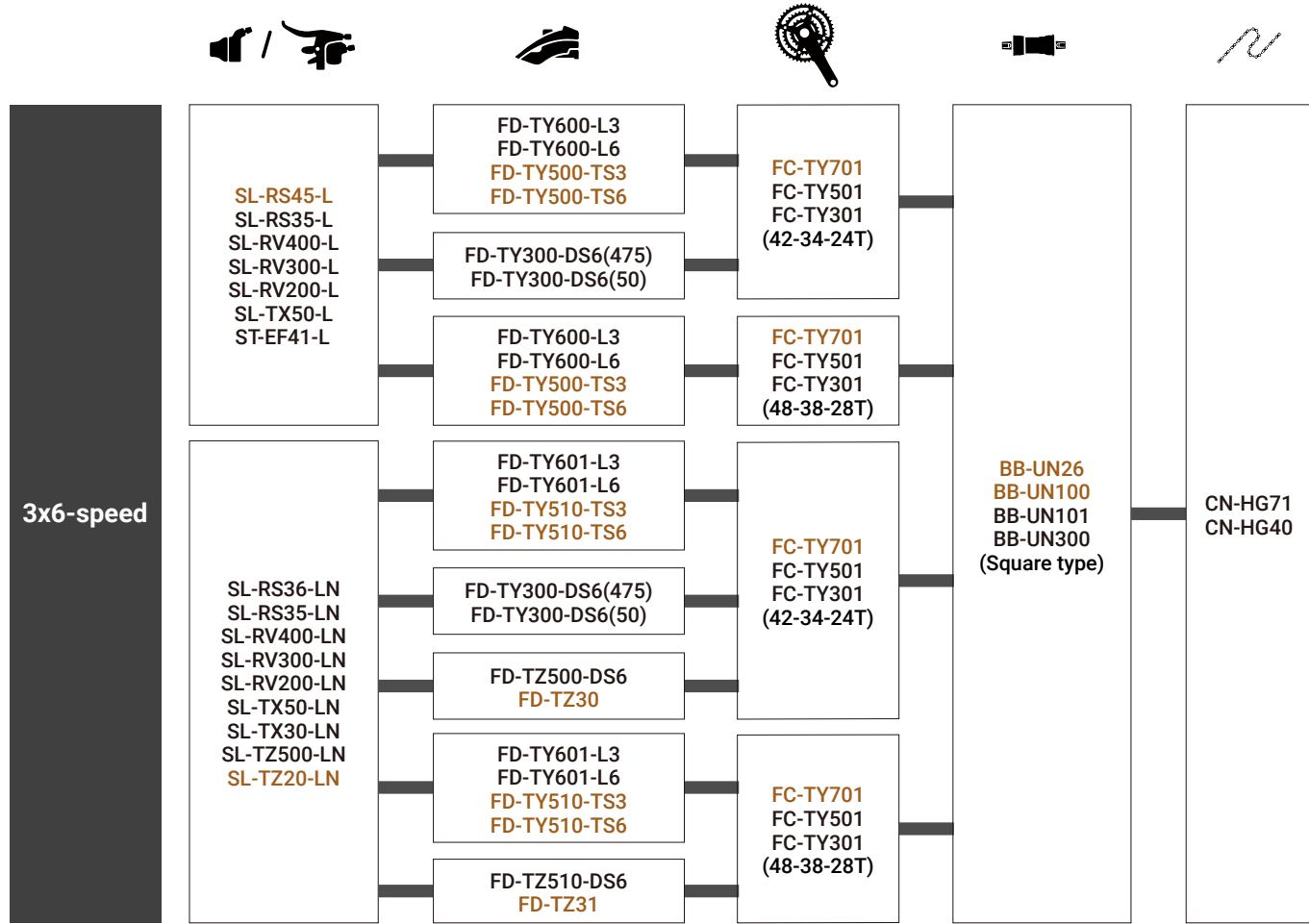


# 8,7,6-speed front drivetrain [MTB, LIFESTYLE]

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.

FC (largest chainring) - (smallest chainring) ≤ FD (high and low capacity)  
 FC (largest chainring) - (middle chainring) = FD (allowance of difference in teeth number between top and middle)

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.

Chain line (mm)			
	28.6 mm (S)	31.8 mm (M)	34.9 mm (L)
FD-TY300-DS6(475)		47.5	-
FD-TY300-DS6(50)		-	50.0
FD-TZ510-DS6 FD-TZ500-DS6 <b>FD-TZ31</b> <b>FD-TZ30</b>		47.5	-
FD-TY600-L3	-	47.5	47.5
FD-TY600-L6		50	50
FD-TY601-L3	-	47.5	47.5
FD-TY601-L6		50	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							56 mm	
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	-	
10	SHIMANO	FC-UT400-1	-	✓	-	BB-UN300 BB-UN101	-	-	-	-	-	-	LL123	
		FC-M523	✓	-	-	BB-ES300	-	118	-	-	-	-	-	
9	SHIMANO ALIVIO	FC-M522	✓	-	-	BB-ES300	-	113	-	-	-	-	-	
		FC-M4000	✓	-	-	BB-ES300	-	118	-	-	-	-	-	
		FC-T4010	✓	-	✓*1	BB-ES300(-K)	-	126	-	-	-	-	-	
		FC-M430-8	✓	-	-	BB-ES300(-E)	-	118	-	-	-	-	-	
	ACERA	FC-M430	-	✓	-	BB-UN26(-E) BB-UN300(-E)	-	LL113	-	-	-	-	-	
		FC-M3000-8	✓	-	-	BB-ES300	-	118	-	-	-	-	-	
		FC-M3000 FC-M3000-B2	-	✓	-	BB-UN26 BB-UN300	-	LL113	-	-	-	-	-	
		FC-T3010-8	✓	-	✓*1	BB-ES300(-K)	-	126	-	-	-	-	-	
	ALTUS	FC-T3010	-	✓	✓*1	BB-UN26(-K) BB-UN300(-K)	-	LL123	-	-	-	-	-	
	SHIMANO	FC-M2000	-	✓	-	BB-UN26 BB-UN300 BB-UN100 BB-UN101	-	LL123	-	-	-	-	-	
		FC-MT100 FC-MT101	-	✓	-	BB-UN26 BB-UN300 BB-UN100 BB-UN101	-	LL123	-	-	-	-	-	
		FC-M371	-	✓	✓*1	BB-UN26(-K) BB-UN300(-K)	-	LL123	-	-	-	-	-	
		FC-M351	-	✓	✓*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	-	-	
	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	
8, 7, 6	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

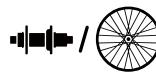
- If using a chain case, select a BB-xxxx (-K) / -K bottom bracket.
- If using an E-type front derailleur, select a BB-xxxx (-E) bottom bracket.

# Drivetrain for ROAD, Gravel, LIFESTYLE components

C-453

## Rear drivetrain compatibility

C-454



### 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

### 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

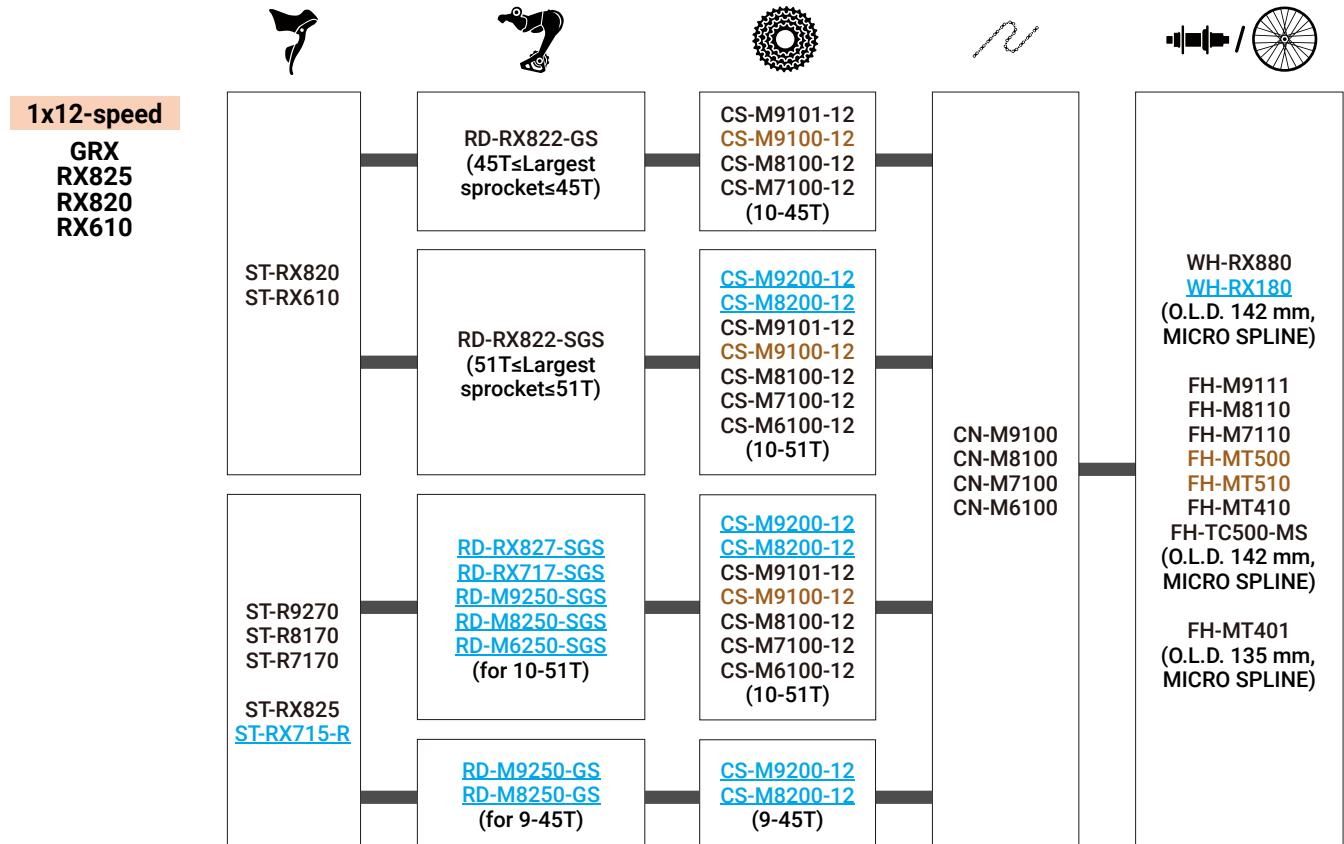
WH-R9200  
(O.L.D. 130 mm,  
HG spline L2)

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-CX75**  
**FH-RS505**  
(O.L.D. 135 mm,  
HG spline L)



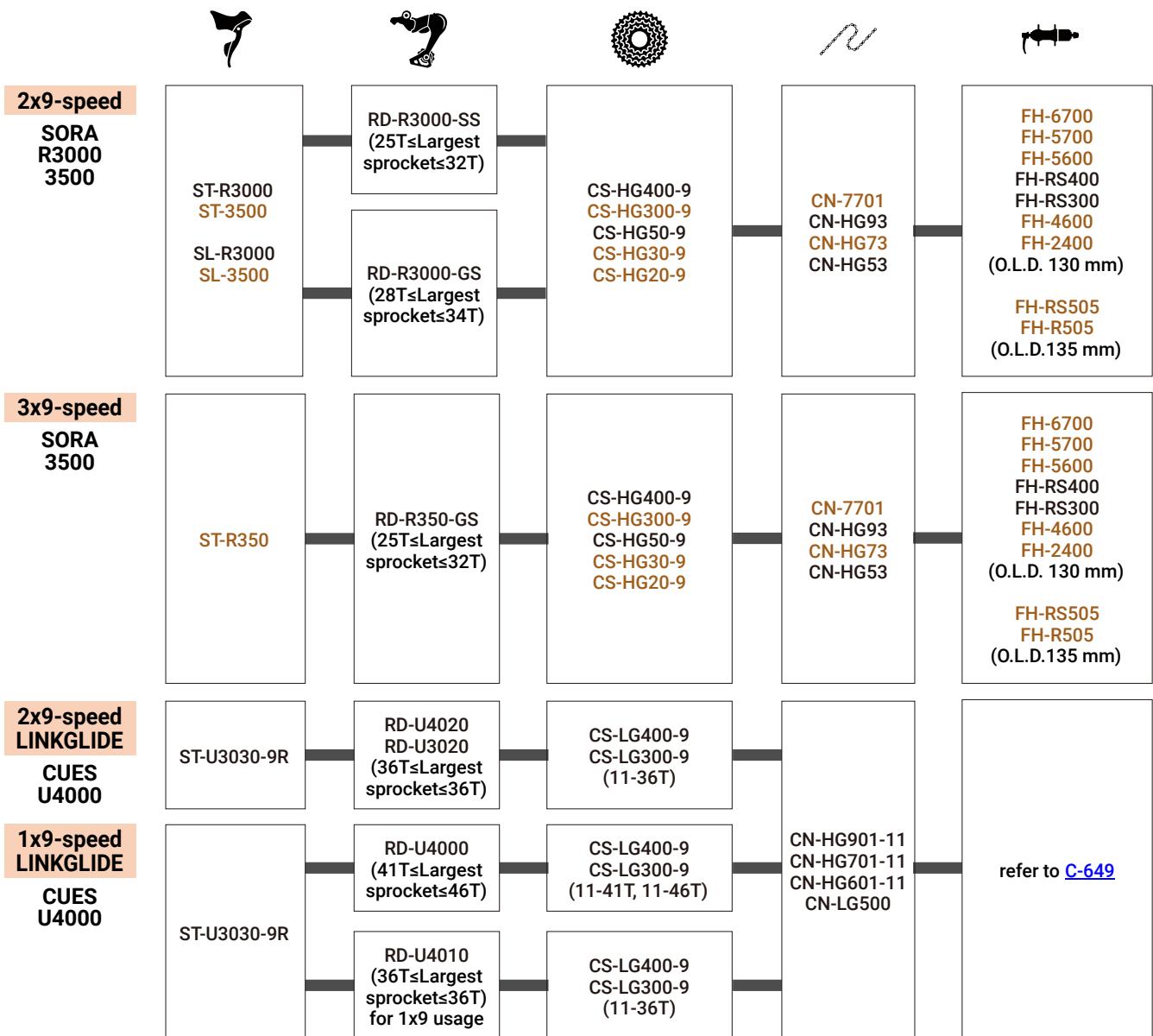


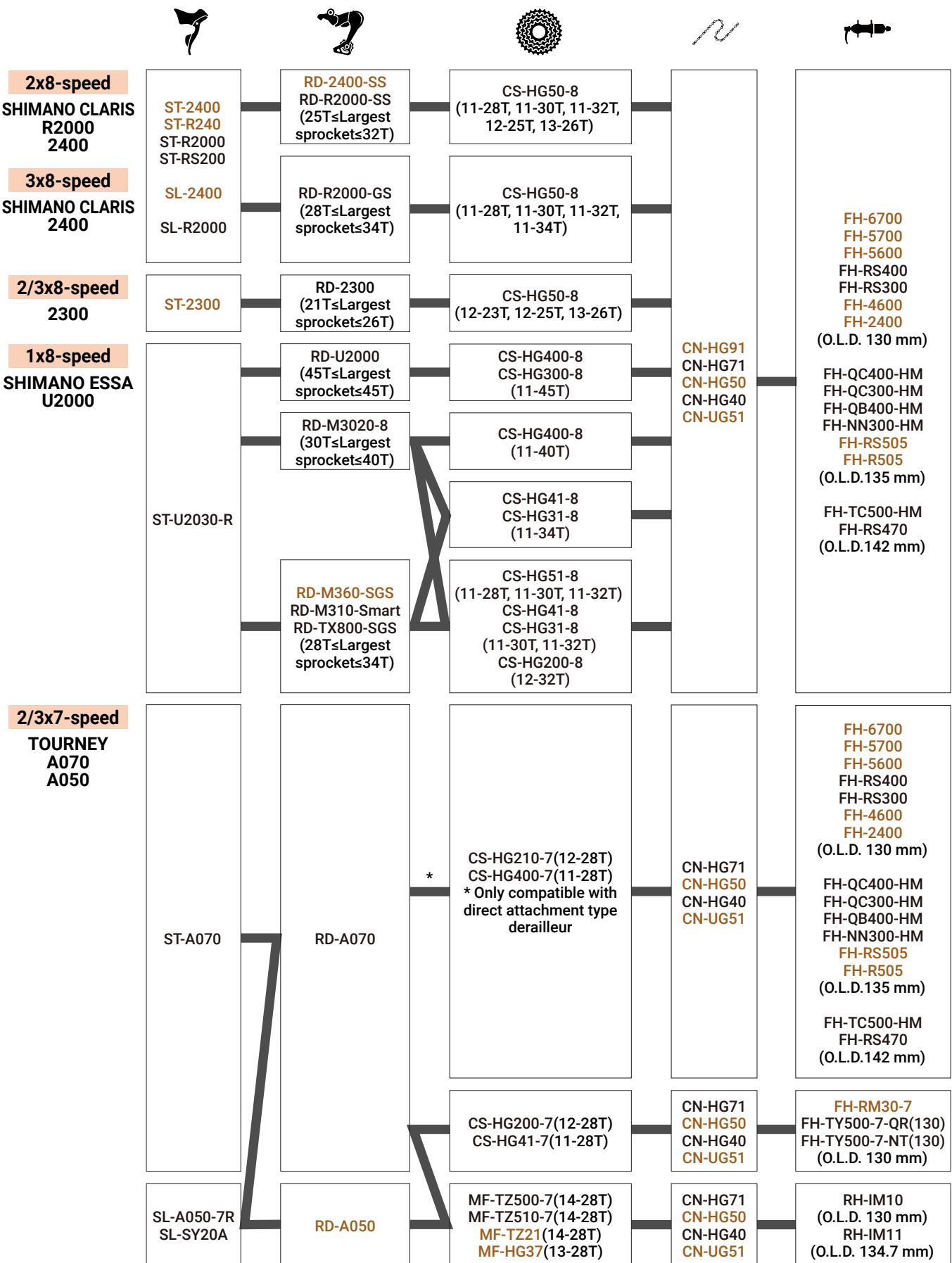
**2x11-speed**

<b>DURA-ACE</b> <b>R9100</b> <b>9000</b>  <b>ULTEGRA</b> <b>R8000</b> <b>6800</b>  <b>SHIMANO 105</b> <b>R7000</b> <b>5800</b>  <b>GRX</b> <b>RX810</b> <b>RX600</b>  <b>METREA</b> <b>U5000</b>	<p>ST-R9100 ST-R9120 ST-9001 <b>ST-9000</b> SL-BSR1 ST-R8000 ST-R8020 ST-R8025 ST-6800 ST-R7000 ST-R7020 ST-R7025 ST-5800 SL-RS700 ST-RS685 <b>ST-RS505</b> <b>ST-U5060</b> SL-U5000 ST-RX810 ST-RX600</p>	<p>RD-R9100-SS RD-R8000-SS (25T≤Largest sprocket≤30T)   RD-R8000-GS RD-RX800-GS (28T≤Largest sprocket≤34T)   RD-9000 RD-6800-SS <b>RD-5800-SS</b> (23T≤Largest sprocket≤28T)   RD-R7000-SS (25T≤Largest sprocket≤30T)   RD-R7000-GS (28T≤Largest sprocket≤34T)   RD-6800-GS <b>RD-5800-GS</b> (28T≤Largest sprocket≤32T)   <b>RD-U5000-SS</b> (28T≤Largest sprocket≤32T)   RD-RX810 (30T≤Largest sprocket≤34T)   RD-RX800 (28T≤Largest sprocket≤34T)</p>	<p>CS-R9100   <b>CS-9000</b> CS-6800 <b>CS-5800</b> CS-R8000 CS-HG800-11 CS-R7000 CS-HG700-11</p>	<p>CN-HG901-11 CN-HG701-11 CN-HG601-11   <b>CN-LG500</b></p>	<p>FH-9000 WH-R9100 WH-RS700 WH-RS500 WH-RS300 WH-RS100 FH-6800 <b>FH-5800</b> FH-R7000 FH-RS400 (O.L.D. 130 mm)   <b>FH-CX75</b> <b>FH-RS505</b> <b>WH-RX830</b> <b>WH-RX31 (QR)</b> <b>WH-U5000</b> WH-RX010 (O.L.D. 135 mm)   WH-R9170 WH-R8170 WH-RS710 <b>WH-RS770</b> WH-RS370 WH-RS171 (700c) <b>WH-RS171 (650b)</b> WH-RX870 WH-RX570 <b>WH-RX180</b> <b>WH-RX31 (E-THRU)</b> FH-RS770 FH-R7070 FH-RS470 FH-TC500-HL (O.L.D. 142 mm)</p>
<p>ST-R9150 ST-R9160 ST-R9170 ST-R9180 <b>ST-9070</b> ST-R8050 ST-R8060 ST-R8070 <b>ST-9071</b>   ST-6870 ST-6871 ST-RX815 <b>ST-R785</b></p>	<p>RD-R9150-SS RD-R8050-SS (25T≤Largest sprocket≤30T)   <b>RD-9070-SS</b> RD-6870-SS (23T≤Largest sprocket≤28T)   RD-R8050-GS RD-RX805 (28T≤Largest sprocket≤34T)   RD-6870-GS (28T≤Largest sprocket≤32T)   RD-RX815 (30T≤Largest sprocket≤34T)</p>				

<b>1x11-speed</b>					
<b>METREA U5000</b>	ST-U5060 SL-U5000	RD-U5000-SS	CS-R9100 CS-9000 CS-6800 CS-5800 CS-R8000 CS-HG800-11 CS-R7000 CS-HG700-11		FH-9000 WH-R9100 WH-RS700 WH-RS500 WH-RS300 WH-RS100 FH-6800 <b>FH-5800</b> FH-R7000 FH-RS400 (O.L.D. 130 mm)
<b>GRX RX810 RX600</b>	ST-R9100 ST-R9120 ST-9001 <b>ST-9000</b> SL-BSR1 ST-R8000 ST-R8020 ST-R8025 ST-6800 ST-R7000 ST-R7020 ST-R7025 ST-5800  SL-R700 ST-RS685 <b>ST-RS505</b>  <b>ST-U5060</b> <b>SL-U5000</b> ST-RX810 ST-RX600	RD-RX812 (40T≤Largest sprocket≤42T)	CS-M8000-11 <b>CS-M7000-11</b> CS-M5100-11	CN-HG901-11 CN-HG701-11 CN-HG601-11  CN-LG500	WH-R9170 WH-R8170 WH-RS710 <b>WH-RS770</b> WH-RS370 WH-RS171 (700c) <b>WH-RS171 (650b)</b> WH-RX870 WH-RX570 <b>WH-RX180</b> <b>WH-RX31 (E-THRU)</b> FH-RS770 FH-R7070 FH-RS470 FH-TC500-HL (O.L.D. 142 mm)
	ST-R9150 ST-R9160 ST-R9170 ST-R9180 <b>ST-9070</b> ST-R8050 ST-R8060 ST-R8070 <b>ST-9071</b>  ST-6870 ST-6871 ST-RX815 <b>ST-R785</b>	RD-RX817 (40T≤Largest sprocket≤42T)			
<b>1x11-speed LINKGLIDE</b>	ST-U6030	RD-M8130 RD-U8000 (50T≤Largest sprocket≤50T for 1x11-speed) RD-U6000 (48T≤Largest sprocket≤50T)	CS-LG700-11 <b>CS-LG600-11</b>  CS-LG400-11 (11-50T)		refer to <a href="#">C-649</a>

**2x10-speed**ULTEGRA  
6700SHIMANO 105  
5700TIAGRA  
4700  
4600GRX  
RX400RD-6700-A-GS  
(23T≤Largest sprocket≤30T)RD-5701-SS  
RD-4601-SS  
(25T≤Largest sprocket≤30T)CS-6700  
CS-5700  
CS-HG500-10ST-6700  
ST-5700  
ST-4600SL-R780  
SL-4600RD-5701-GS  
RD-4601-GS  
(27T≤Largest sprocket≤32T)CS-6700  
CS-5700  
CS-HG500-10  
CS-M771-10  
CS-HG81-10  
CS-HG62-10RD-R350-10-SS  
(30T≤Largest sprocket≤34T)ST-4700  
ST-4720  
ST-4725  
ST-RS405  
ST-RX400  
  
SL-4700RD-4700-SS  
(25T≤Largest sprocket≤28T)RD-4700-GS  
(28T≤Largest sprocket≤34T)  
RD-RX400  
(32T≤Largest sprocket≤36T)CS-6700  
CS-5700  
CS-HG500-10  
CS-M771-10  
CS-HG81-10  
CS-HG62-10  
CS-HG50-10CN-6701  
CN-5701  
CN-4601FH-6700  
FH-5700  
FH-5600  
FH-RS400  
FH-RS300  
FH-4600  
FH-2400  
(O.L.D. 130 mm)FH-RS505  
FH-R505  
(O.L.D.135 mm)FH-RS770  
FH-RS470  
(O.L.D.142 mm)**3x10-speed**ULTEGRA  
6700SHIMANO 105  
5700TIAGRA  
4700  
4600RD-6700-A-SS  
(23T≤Largest sprocket≤30T)RD-5701-GS  
RD-4601-GS  
(25T≤Largest sprocket≤30T)CS-6700  
CS-5700  
CS-HG500-10  
CS-M771-10  
CS-HG81-10  
CS-HG62-10CN-7801  
CN-6600  
CN-5600FH-6700  
FH-5700  
FH-5600  
FH-RS400  
FH-RS300  
FH-4600  
FH-2400  
(O.L.D. 130 mm)FH-RS505  
FH-R505  
(O.L.D.135 mm)FH-RS770  
FH-RS470  
(O.L.D.142 mm)**2x10-speed**  
**LINKGLIDE**CUES  
U6000RD-U6020-10  
(39T≤Largest sprocket≤39T)CS-LG400-10  
CS-LG300-10  
(11-39T)ST-U6030  
ST-U3030-10R**1x10-speed**  
**LINKGLIDE**CUES  
U6000RD-U6000  
(48T≤Largest sprocket≤50T)CS-LG400-10  
CS-LG300-10  
(11-48T)ST-U6030  
ST-U3030-10RRD-M5130  
(43T≤Largest sprocket≤43T)CS-LG400-10  
(11-43T)RD-U4010  
(39T≤Largest sprocket≤39T)  
for 1x10 usageCS-LG400-10  
CS-LG300-10  
(11-39T)CN-HG901-11  
CN-HG701-11  
CN-HG601-11  
CN-LG500refer to [C-649](#)



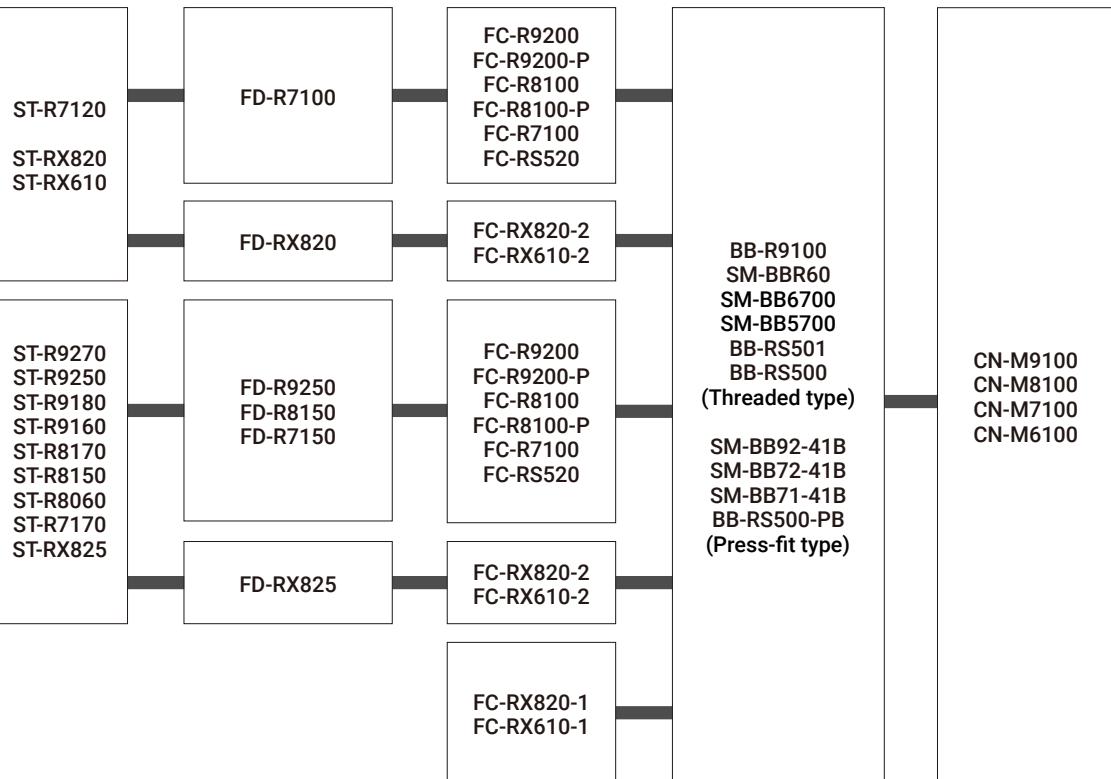




## 2x12-speed

**SHIMANO 105 R7100**

**GRX RX820  
RX610**



## 1x12-speed

**GRX RX825  
RX820  
RX610**

**SHIMANO 105 R7150**

**ULTEGRA R8150**

**DURA-ACE R9250**

**GRX RX825**

**GRX RX820  
RX610**



### 2x11-speed

DURA-ACE  
R9100  
9000

ULTEGRA  
R8000  
6800

SHIMANO 105  
R7000  
5800

GRX  
RX810  
RX600

METREA  
U5000

ST-R9100  
ST-R9120  
ST-9001  
**ST-9000**  
SL-BSR1  
ST-R8000  
ST-R8020  
ST-R8025  
ST-6800  
ST-5800  
ST-R7000  
ST-R7020  
ST-R7025  
ST-RS685  
**ST-RS505**  
**ST-U5060**  
SL-RS700  
**SL-U5000**  
ST-RX810  
ST-RX600

**FD-R9100**  
(not compatible  
with 46T)  
FD-R8000  
**FD-5801**  
FD-R7000

**FD-9000**  
(not compatible  
with 46T)  
FD-6800  
**FD-5800**  
**FD-U5000**

FD-RX810

ST-R9150  
ST-R9160  
ST-R9170  
ST-R9180  
**ST-9070**  
**SL-9071**  
ST-R8050  
ST-R8060  
ST-R8070  
ST-6870  
ST-6871  
**ST-R785**  
ST-RX815

**FD-R9150**  
(not compatible  
with 46T)  
FD-R8050

**FD-9070**  
FD-6870

FD-RX815

FC-R9100  
FC-09  
FC-R9100-P  
FC-R9200-PX  
FC-R8000  
FC-08  
FC-R7000  
FC-RS510

FC-9000  
FC-09  
**FC-6800**  
FC-08  
**FC-5800**  
FC-RS500  
**FC-U5000-2**

FC-RX810-2  
FC-RX600-11

FC-R9100  
FC-09  
FC-R9100-P  
FC-R9200-PX  
FC-R8000  
FC-08  
FC-R7000  
FC-RS510

FC-9000  
FC-09  
**FC-6800**  
FC-08  
**FC-5800**  
FC-RS500  
**FC-U5000-2**

FC-RX810-2  
FC-RX600-11

BB-R9100  
SM-BBR60  
SM-BB6700  
SM-BB5700  
BB-RS501  
BB-RS500  
(Threaded type)

SM-BB92-41B  
SM-BB72-41B  
SM-BB71-41B  
BB-RS500-PB  
(Press-fit type)

CN-HG901-11  
CN-HG701-11  
CN-HG601-11

CN-LG500

### 1x11-speed

GRX  
RX810  
RX600

METREA  
U5000

### 1x11-speed LINKGLIDE

CUES  
U6000

FC-RX810-1  
FC-RX600-1

**FC-U5000-1**

FC-U6040-1  
FC-U6030-1

FC-U4000-1  
FC-UT400-1

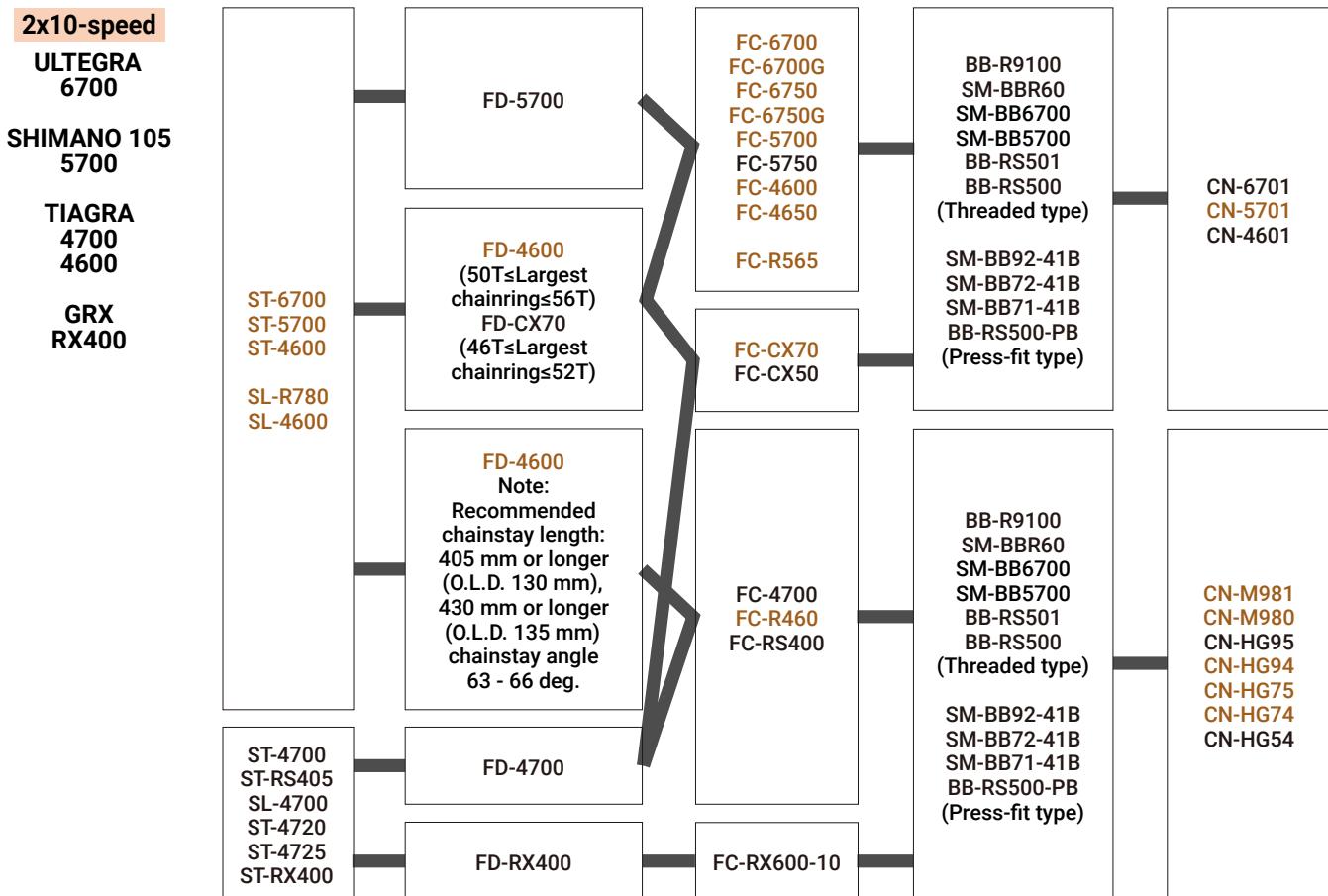
BB-R9100  
SM-BBR60  
SM-BB6700  
SM-BB5700  
BB-RS501  
BB-RS500  
(Threaded type)

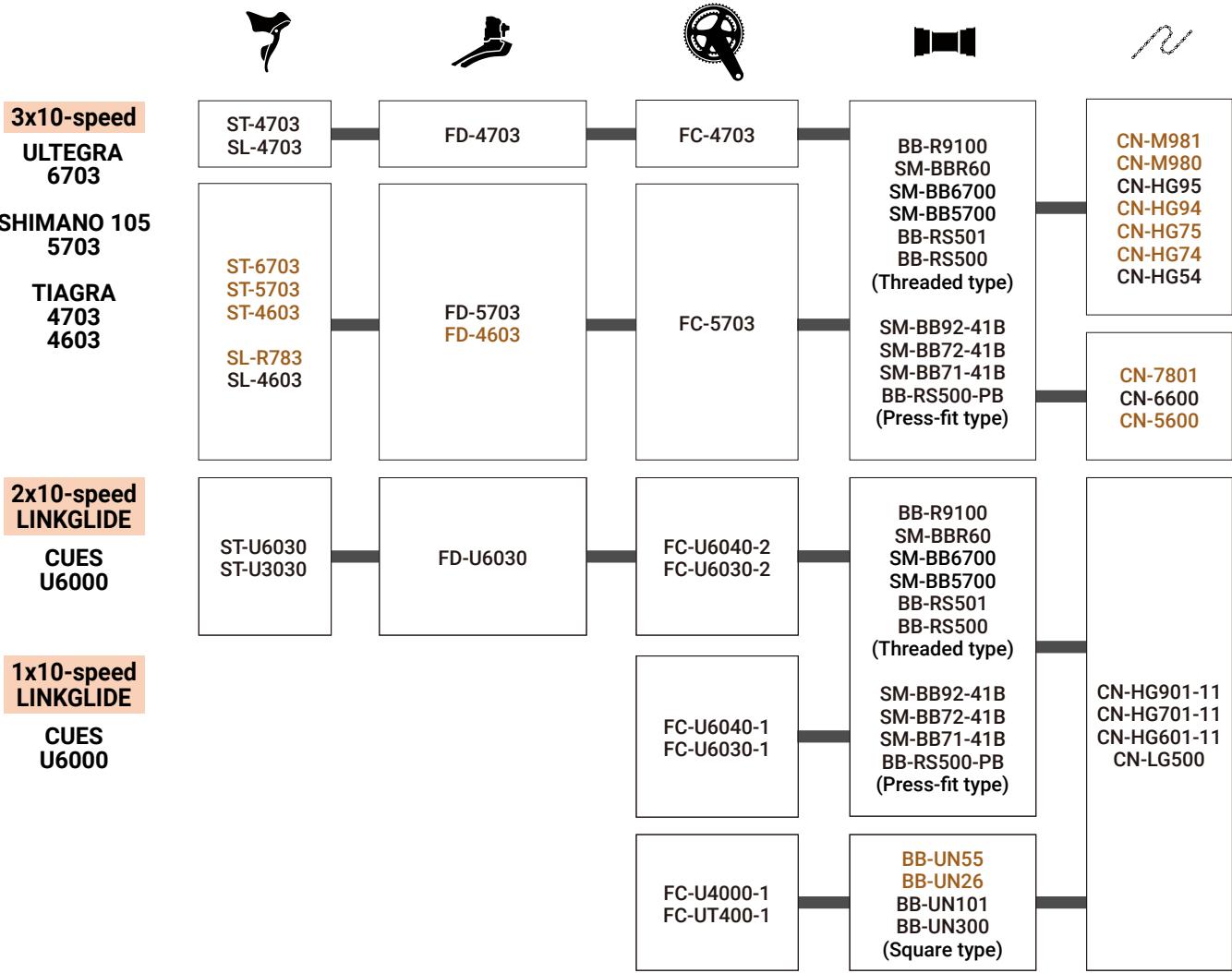
SM-BB92-41B  
SM-BB72-41B  
SM-BB71-41B  
BB-RS500-PB  
(Press-fit type)

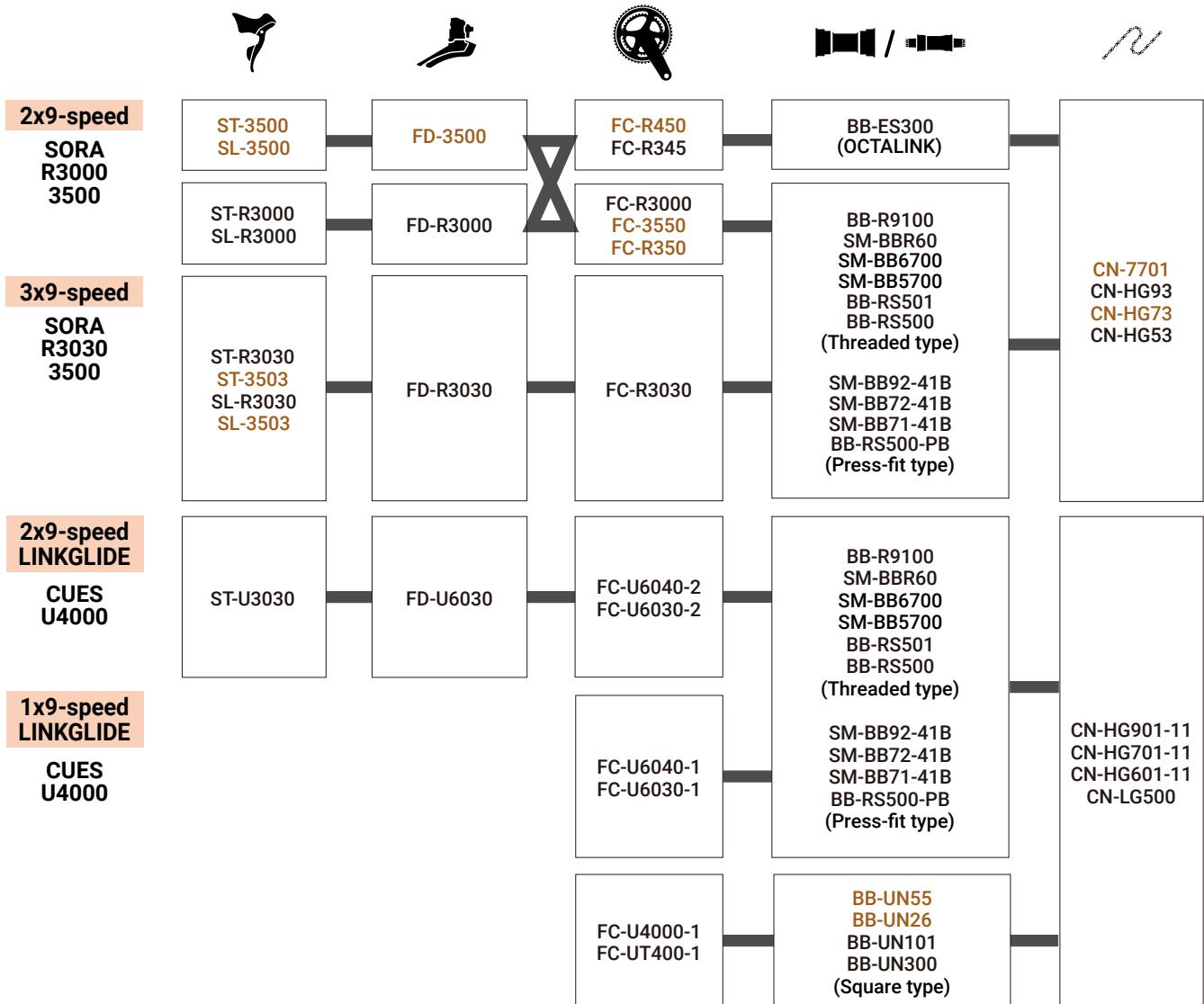
CN-HG901-11  
CN-HG701-11  
CN-HG601-11

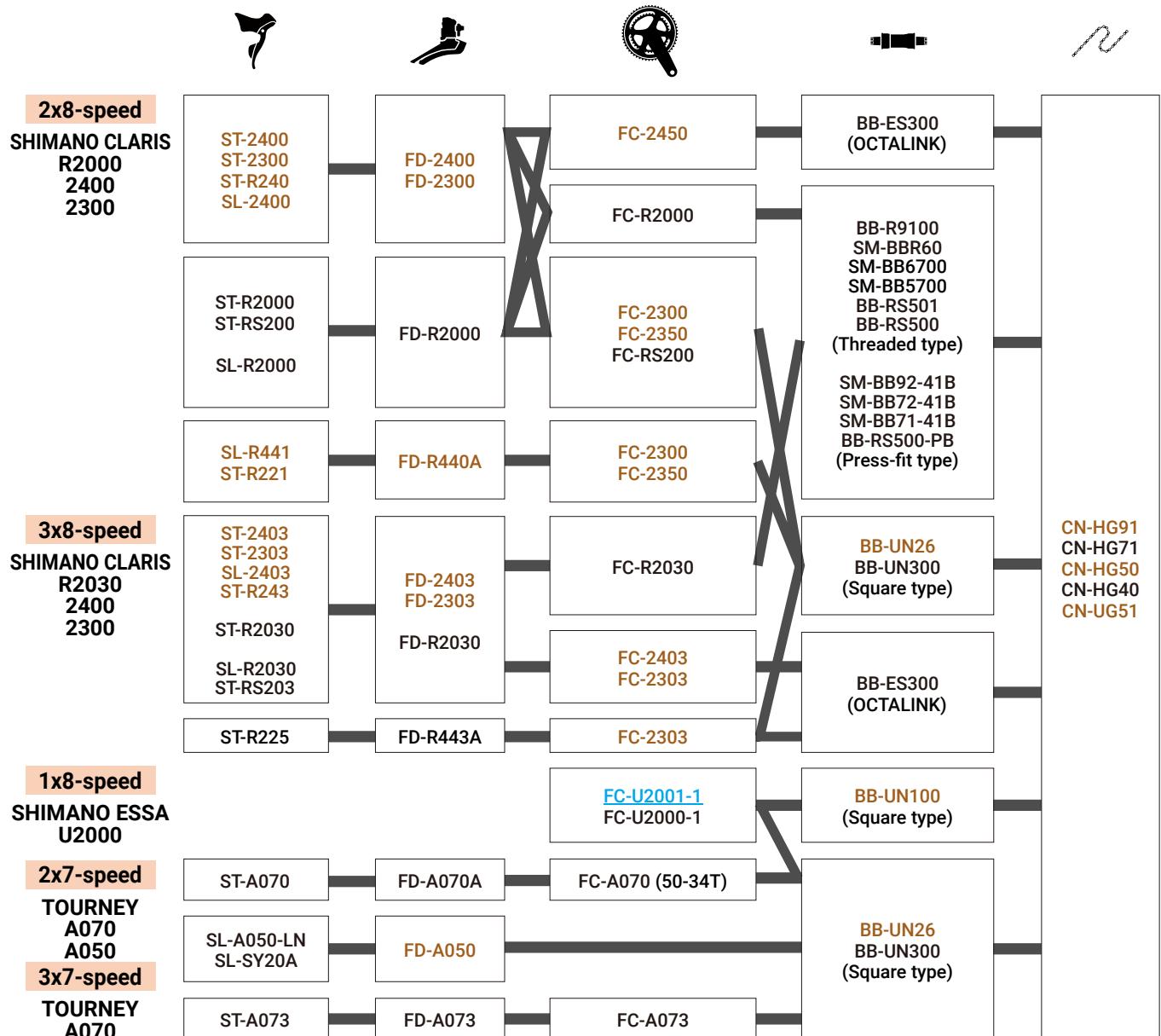
CN-LG500

**BB-UN55**  
**BB-UN26**  
**BB-UN101**  
**BB-UN300**  
(Square type)







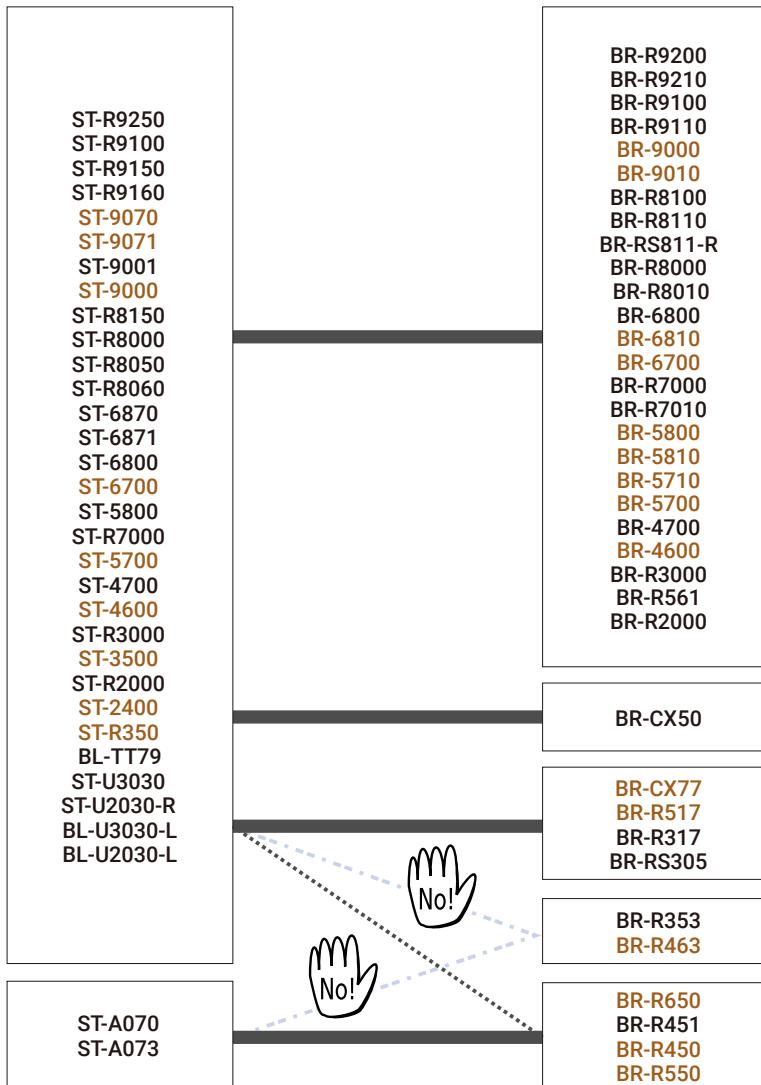


# Brake system for ROAD, Gravel, LIFESTYLE components

C-737

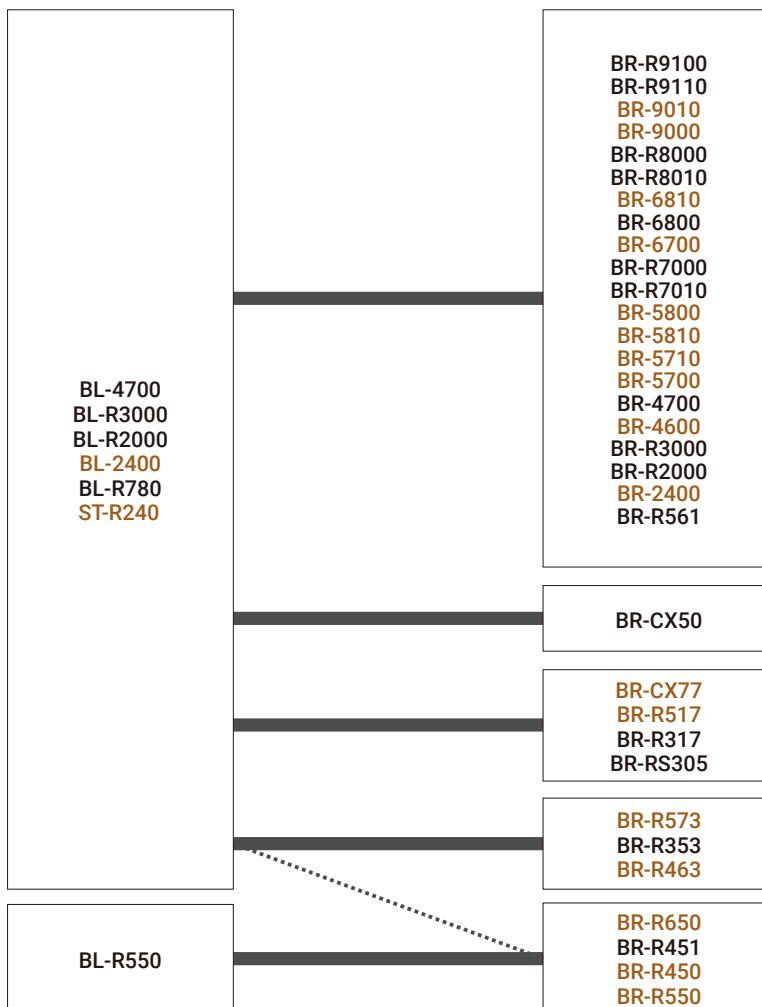
## Brake systems compatibility [ROAD, LIFESTYLE]

C-456



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

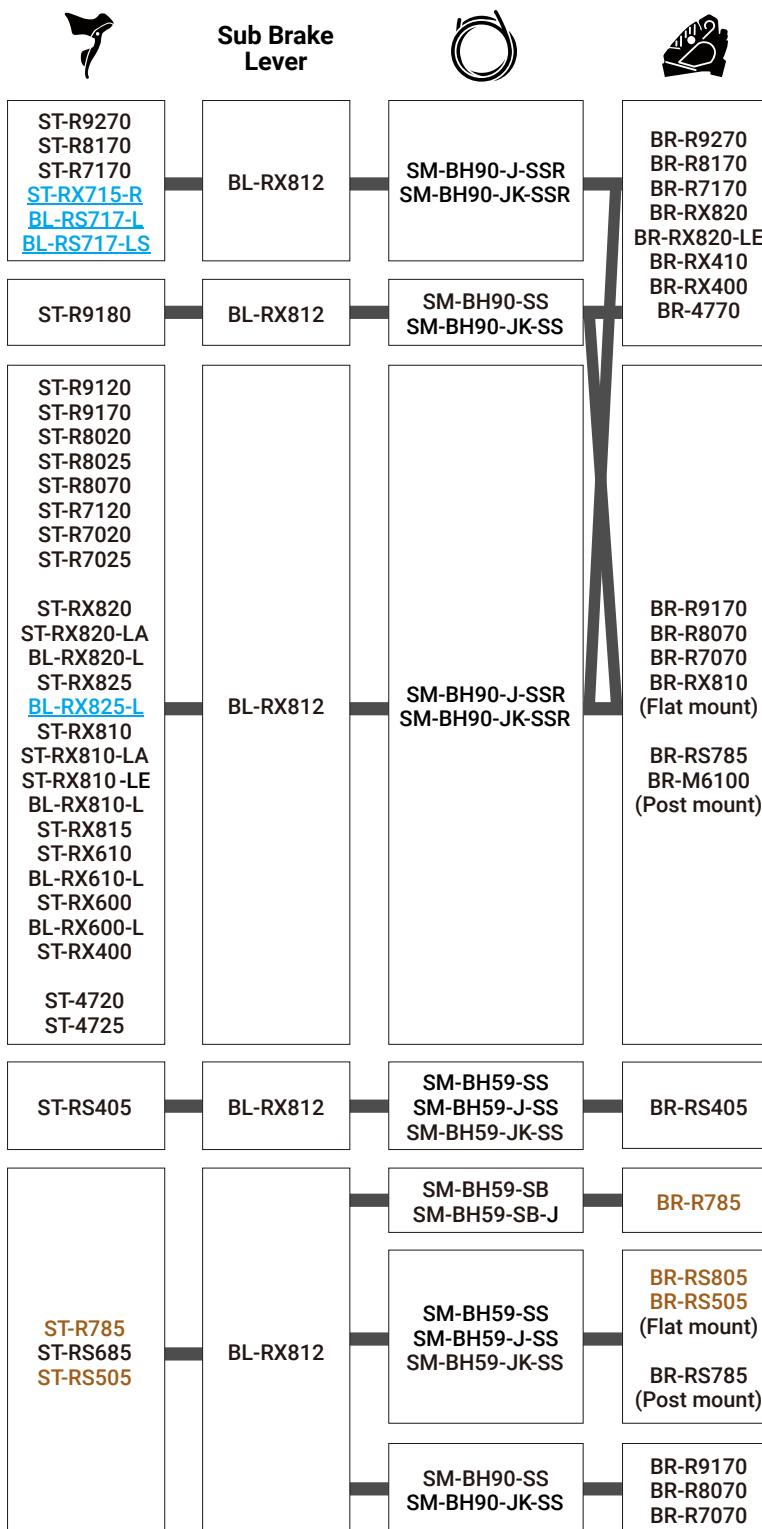
No! : The "NO!" symbols indicate combinations that should not be used under any circumstances.



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

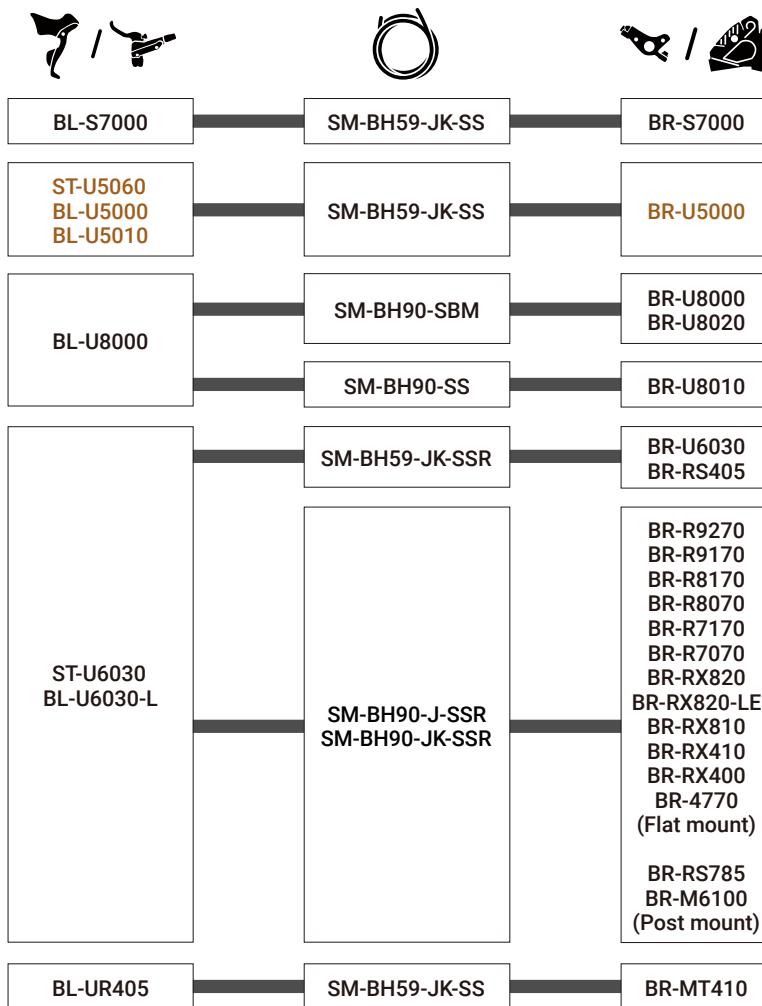
# Hydraulic systems compatibility [ROAD, Gravel]

C-499



# Hydraulic systems compatibility [URBAN, LIFESTYLE]

C-500



# Compatibility of BL-U8000 with shifter

C-738

## Shifters compatible with BL-U8000

Series	Model No.
DEORE XT	SL-M8130-R
	SL-M8100-R
SLX	SL-M7100-R
DEORE	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

## BL-U8000 compatibility with shifters not listed in the table above

### Clamp band type

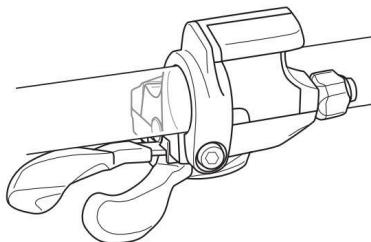
Shifter type	Specification	Compatibility with BL-U8000
REVOSHIFT	-	Not compatible
RAPIDFIRE PLUS RAPIDFIRE PLUS MONO Thumb Shifter PLUS	w/o OPTICAL GEAR DISPLAY	*1
	w/ OPTICAL GEAR DISPLAY on top *2	Not compatible
	w/ OPTICAL GEAR DISPLAY on bottom *2	*1

### I-SPEC type

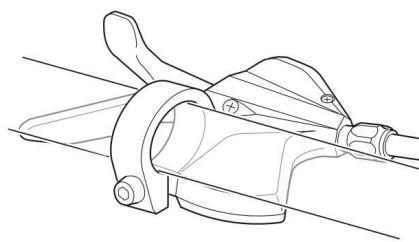
Mount type	Compatibility
I-SPEC	Not compatible
I-SPEC II	*1
I-SPEC EV	Not compatible

\*1 Please contact SHIMANO sales office

\*2



w/ OPTICAL GEAR DISPLAY on top



w/ OPTICAL GEAR DISPLAY on bottom

# Compatibility of BL-UR405 with shifter

C-755

## Shifters compatible with BL-UR405

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

## 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-I	SL-M8100-I	SL-M7100-I	SL-M6100-I	SL-M5100-I	SL-M4100-I	SL-M8130-I
I-SPEC EV	<a href="#">BL-M9200</a>	✓	✓	✓	✓	✓	✓	✓
	<a href="#">BL-M9220</a>	✓	✓	✓	✓	✓	✓	✓
	BL-M9100	✓	✓	✓	✓	✓	✓	✓
	BL-M9120	✓	✓	✓	✓	✓	✓	✓
	<a href="#">BL-M8200</a>	✓	✓	✓	✓	✓	✓	✓
	BL-M8100	✓	✓	✓	✓	✓	✓	✓
	BL-M7100	✓	✓	✓	✓	✓	✓	✓
	BL-M6100	✓	✓	✓	✓	✓	✓	✓
	BL-M4100	✓	✓	✓	✓	✓	✓	✓
	BL-M9000	-	-	-	-	-	-	-
I-SPEC II	BL-M9020	-	-	-	-	-	-	-
	BL-M8000	-	-	-	-	-	-	-
	BL-T8100	-	-	-	-	-	-	-
	BL-T8000	-	-	-	-	-	-	-
	<a href="#">BL-M7000</a>	-	-	-	-	-	-	-
	<a href="#">BL-M6000</a>	-	-	-	-	-	-	-
	BL-T6000	-	-	-	-	-	-	-
	BL-RS600	-	-	-	-	-	-	-
	<a href="#">BL-MT500</a>	-	-	-	-	-	-	-
	BL-MT501	-	-	-	-	-	-	-
	BL-U8000 *1	-	-	-	-	-	-	-
	<a href="#">BL-U5000</a>	-	-	-	-	-	-	-
I-SPEC B	BL-M820-B	-	-	-	-	-	-	-

\*1 As for the compatibility between BL-U8000 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	<a href="#">SL-U5000</a>	SL-M6000-I	SL-RS700-I	SL-U8000-I
I-SPEC EV	<a href="#">BL-M9200</a>	-	-	-	-	-	-	-
	<a href="#">BL-M9220</a>	-	-	-	-	-	-	-
	BL-M9100	-	-	-	-	-	-	-
	BL-M9120	-	-	-	-	-	-	-
	<a href="#">BL-M8200</a>	-	-	-	-	-	-	-
	BL-M8100	-	-	-	-	-	-	-
	BL-M7100	-	-	-	-	-	-	-
	BL-M6100	-	-	-	-	-	-	-
	BL-M4100	-	-	-	-	-	-	-
	BL-M9000	✓	✓	✓	✓	✓	✓	✓
I-SPEC II	BL-M9020	✓	✓	✓	✓	✓	✓	✓
	BL-M8000	✓	✓	✓	✓	✓	✓	✓
	BL-T8100	✓	✓	✓	✓	✓	✓	✓
	BL-T8000	✓	✓	✓	✓	✓	✓	✓
	<a href="#">BL-M7000</a>	✓	✓	✓	✓	✓	✓	✓
	<a href="#">BL-M6000</a>	✓	✓	✓	✓	✓	✓	✓
	BL-T6000	✓	✓	✓	✓	✓	✓	✓
	BL-RS600	✓	✓	✓	✓	✓	✓	✓
	<a href="#">BL-MT500</a>	✓	✓	✓	✓	✓	✓	✓
	BL-MT501	✓	✓	✓	✓	✓	✓	✓
	BL-U8000 *1	-	-	-	-	-	-	✓
	<a href="#">BL-U5000</a>	✓	✓	✓	✓	✓	✓	✓
I-SPEC B	BL-M820-B	-	-	-	-	-	-	-

\*1 As for the compatibility between BL-U8000 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	<a href="#">BL-M9200</a>	-	-	-
	<a href="#">BL-M9220</a>	-	-	-
	BL-M9100	-	-	-
	BL-M9120	-	-	-
	<a href="#">BL-M8200</a>	-	-	-
	BL-M8100	-	-	-
	BL-M7100	-	-	-
	BL-M6100	-	-	-
	BL-M4100	-	-	-
	<a href="#">BL-M9000</a>	-	-	-
I-SPEC II	<a href="#">BL-M9020</a>	-	-	-
	BL-M8000	-	-	-
	BL-T8100	-	-	-
	BL-T8000	-	-	-
	<a href="#">BL-M7000</a>	-	-	-
	<a href="#">BL-M6000</a>	-	-	-
	BL-T6000	-	-	-
	BL-RS600	-	-	-
	<a href="#">BL-MT500</a>	-	-	-
	BL-MT501	-	-	-
	BL-U8000 *1	-	-	-
	<a href="#">BL-U5000</a>	-	-	-
I-SPEC B	BL-M820-B	✓	✓	✓

\*1 As for the compatibility between BL-U8000 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	<a href="#">BL-M9200</a>	✓	✓
	<a href="#">BL-M9220</a>	✓	✓
	BL-M9100	✓	✓
	BL-M9120	✓	✓
	<a href="#">BL-M8200</a>	✓	✓
	BL-M8100	✓	✓
	BL-M7100	✓	✓
	BL-M6100	✓	✓
	BL-M4100	✓	✓
	<a href="#">BL-M9000</a>	-	-
I-SPEC II	<a href="#">BL-M9020</a>	-	-
	BL-M8000	-	-
	BL-T8100	-	-
	BL-T8000	-	-
	<a href="#">BL-M7000</a>	-	-
	<a href="#">BL-M6000</a>	-	-
	BL-T6000	-	-
	BL-RS600	-	-
	<a href="#">BL-MT500</a>	-	-
	BL-MT501	-	-
	BL-U8000	-	-
	<a href="#">BL-U5000</a>	-	-
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.	<a href="#">SW-M9250-IR</a>	<a href="#">SW-M8250-IR</a>	<a href="#">SW-M6250-IR</a>	<a href="#">SW-M8150-IR</a>	<a href="#">SW-M9050</a>	<a href="#">SW-M8050</a>	<a href="#">SW-EN605-R</a>
<a href="#">BL-M9200</a>	✓	✓	✓	✓	-	-	✓
<a href="#">BL-M9220</a>	✓	✓	✓	✓	-	-	✓
BL-M9100	✓	✓	✓	✓	-	-	✓
BL-M9120	✓	✓	✓	✓	-	-	✓
<a href="#">BL-M8200</a>	✓	✓	✓	✓	-	-	✓
BL-M8100	✓	✓	✓	✓	-	-	✓
BL-M7100	✓	✓	✓	✓	-	-	✓
BL-M6100	✓	✓	✓	✓	-	-	✓
BL-M4100	✓	✓	✓	✓	-	-	✓

## I-SPEC II type brake lever

Model No.	<a href="#">SW-M9250-R</a>	<a href="#">SW-M8250-R</a>	<a href="#">SW-M6250-R</a>	<a href="#">SW-M8150-R</a>	<a href="#">SW-M9050</a>	<a href="#">SW-M8050</a>	<a href="#">SW-EN605-R</a>
<a href="#">BL-M9000</a>	✓	✓	✓	✓	✓	✓	✓
<a href="#">BL-M9020</a>	✓	✓	✓	✓	✓	✓	✓
BL-M8000	✓	✓	✓	✓	✓	✓	✓
BL-T8100	✓	✓	✓	✓	✓	✓	✓
BL-T8000	✓	✓	✓	✓	✓	✓	✓
<a href="#">BL-M7000</a>	✓	✓	✓	✓	✓	✓	✓
<a href="#">BL-M6000</a>	✓	✓	✓	✓	✓	✓	✓
BL-T6000	✓	✓	✓	✓	✓	✓	✓
BL-RS600	✓	✓	✓	✓	✓	✓	✓
<a href="#">BL-MT500</a>	✓	✓	✓	✓	✓	✓	✓
BL-MT501	✓	✓	✓	✓	✓	✓	✓
BL-U8000	✓	✓	✓	✓	-	-	✓
BL-U5000	✓	✓	✓	✓	✓	✓	✓

## I-SPEC B type brake lever

Model No.	<a href="#">SW-M9250-R</a>	<a href="#">SW-M8250-R</a>	<a href="#">SW-M6250-IR</a>	<a href="#">SW-M8150-R</a>	<a href="#">SW-M9050</a>	<a href="#">SW-M8050</a>	<a href="#">SW-EN605-R</a>
BL-M820-B	✓	✓	✓	✓	✓	✓	✓

## Other clamp band type brake lever

### [SW-M8150-R / SW-M9050 / SW-M8050 / SW-EN605-R](#)

Model No.	<a href="#">SW-M8150-R</a>	<a href="#">SW-M9050</a>	<a href="#">SW-M8050</a>	<a href="#">SW-EN605-R</a>
BL-MT402-3A	✓	✓	✓	✓
<a href="#">BL-MT402-ABS</a>	✓	✓	✓	✓
BL-MT401	✓	✓	✓	✓
BL-MT201	✓	✓	✓	✓
BL-MT200	✓	✓	✓	✓
<a href="#">BL-MT200-ABS</a>	✓	✓	✓	✓

## 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
<a href="#">BL-M9200</a>	<a href="#">BR-M9200</a> <a href="#">BR-MT805</a>
<a href="#">BL-M9220</a>	<a href="#">BR-M9220</a> <a href="#">BR-M9200</a> <a href="#">BR-MT805</a>
<a href="#">BL-M8200</a>	<a href="#">BR-M8200</a> <a href="#">BR-M8220</a> <a href="#">BR-MT805</a>

#### 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

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

\*2 Resin pad only

\*3 Not compatible with rear 180 mm (M) rotors

\*4 Not compatible with 220mm (LL) and 203 mm (L) rotors

\*5 For rear only. Not compatible with 220mm (LL), 203 mm (L) and 180 mm (M) rotors.

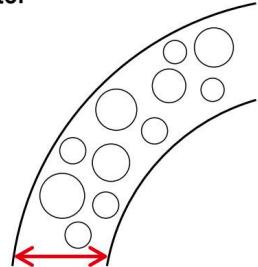
\*6 For rear only. Not compatible 220mm (LL) and with 203 mm (L) rotors.

\*7 Not compatible with 180 mm (M) rotors.

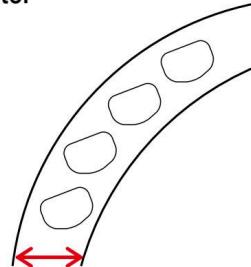
\*8 Not compatible with 140 mm (SS) rotors.

\*9 Please note that the brake kit consisting of BR-RS405, SM-BH59-JK-SSR, and either ST-U6030-R/ST-U6030-L or BL-U6030-L is not compatible with 140 mm (SS) 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
<a href="#">FH-M9210-B</a>	✓	✓	✓
<a href="#">FH-M8210-B</a>	✓	✓	✓
FH-M9111 FH-M9111-B FH-M9111-BS <a href="#">FH-M9000</a> 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	✓	✓	✓
<a href="#">BL-MT402-ABS</a>	-	-	✓
BL-MT401-3A	✓	✓	-
BL-MT401	✓	✓	✓
BL-M4100	✓	✓	✓

# 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)
<a href="#">BR-R517</a>	*	Road lever**
BR-R317	*	Road lever**
<a href="#">BR-CX77</a>	*	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

	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-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-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

		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-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-MT201	BR-MT200	-	-	-	-	-	-
BL-MT200	BR-MT200	-	-	-	-	-	-
BL-MT201	BR-UR300	-	-	-	-	-	-
BL-MT200	BR-UR300	-	-	-	-	-	-
BL-MT200-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-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 (MTB)	SM-BH59-JK-SS (ROAD)	SM-BH59-JK-SSR	SM-BH59-SB	SM-BH59-SB-J
Connection	Straight - Straight	Straight - Straight	Straight - Straight	Straight - Straight	Straight - Banjo	Straight - Banjo
Rigidity	Standard	Standard	Standard	Standard	Standard	Standard
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-M8110	BR-M8110	-	-	-	-	-
BL-M8120	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-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-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

		SM-BH59-J-SS	SM-BH59-JK-SS (MTB)	SM-BH59-JK-SS (ROAD)	SM-BH59-JK-SSR	SM-BH59-SB	SM-BH59-SB-J
Connection		Straight - Straight	Straight - Straight	Straight - Straight	Straight - Straight	Straight - Banjo	Straight - Banjo
Rigidity		Standard	Standard	Standard	Standard	Standard	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-MT201	BR-MT200	—	✓	—	—	—	—
BL-MT200	BR-MT200	—	✓	—	—	—	—
BL-MT201	BR-UR300	—	✓	—	—	—	—
BL-MT200	BR-UR300	—	✓	—	—	—	—
BL-MT200-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-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

		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
ST-R9270	BR-R9270	✓	-	-	-	-	-
ST-R9120	BR-R9170	✓	-	-	-	-	-
ST-R9170							
ST-R9180	BR-R9170	✓	-	-	-	-	-
ST-R8170	BR-R8170	✓	-	-	-	-	-
ST-R8020	BR-R8070	✓	-	-	-	-	-
ST-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-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		-	-	-	-	-	-
BL-U6030-L	BR-U6030		-	-	-	-	-
ST-U6030	BR-RS405		-	-	-	-	-
BL-U6030-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

		SM-BH59-J-SS	SM-BH59-JK-SS (MTB)	SM-BH59-JK-SS (ROAD)	SM-BH59-JK-SSR	SM-BH59-SB	SM-BH59-SB-J
Connection		Straight - Straight	Straight - Straight	Straight - Straight	Straight - Straight	Straight - Banjo	Straight - Banjo
Rigidity		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	—	—	—	—	—	—
<a href="#">BL-RS717</a>	BR-R9270	—	—	—	—	—	—
<a href="#">BL-RS717</a>	BR-R8170	—	—	—	—	—	—
<a href="#">BL-RS717</a>	BR-R7170	—	—	—	—	—	—
<a href="#">BL-RS717</a>	BR-RX410	—	—	—	—	—	—
ST-R7020	BR-R7170	—	—	—	—	—	—
ST-R7020	BR-R7070	—	—	—	—	—	—
ST-R7025	BR-R7170	—	—	—	—	—	—
ST-R7025	BR-R7070	—	—	—	—	—	—
<b>ST-R785</b>	<b>BR-RS805</b>	✓	—	—	—	—	—
<b>ST-R785</b>	<b>BR-RS785</b>	✓	—	—	—	—	—
<b>ST-R785</b>	<b>BR-R785</b>	—	—	—	—	✓	✓
ST-RS685	<b>BR-RS805</b>	✓	—	✓	—	—	—
ST-RS685	BR-RS785	✓	—	✓	—	—	—
ST-RS685	<b>BR-R785</b>	—	—	—	—	✓	✓
<b>ST-RS505</b>	BR-RS785	✓	—	✓	—	—	—
<b>ST-RS505</b>	<b>BR-RS505</b>	✓	—	✓	—	—	—
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	—	—	—	—	—	—
<a href="#">BL-RX825</a>	BR-RX820	—	—	—	—	—	—
ST-RX810	BR-RX820	—	—	—	—	—	—
ST-RX810	BR-RX810	—	—	—	—	—	—
BL-RX820	BR-RX820	—	—	—	—	—	—
BL-RX810	BR-RX820	—	—	—	—	—	—
BL-RX810	BR-RX810	—	—	—	—	—	—
<a href="#">ST-RX715-R</a>	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		—	—	—	✓	—	—
ST-U6030	BR-RS405	—	—	—	✓	—	—
BL-U6030-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

# Compatibility between banjo screw

C-625

Banjo screw	Special	Normal	Short	BR-M9120 SPEC.	BR-M8100 SPEC.
<a href="#">BR-M9220</a>	-	-	-	-	✓
BR-M9120	-	-	-	✓	-
<a href="#">BR-M9000</a>	✓	-	-	-	-
<a href="#">BR-M9020</a>	✓	✓	-	-	-
BR-M820	-	-	✓	-	✓
<a href="#">BR-M8200</a>	-	-	-	-	✓
<a href="#">BR-M8220</a>	-	-	-	-	✓
BR-M8100	-	-	-	-	✓
BR-M8120	-	-	-	✓	-
BR-M8000	✓	✓	-	-	-
BR-M8020	-	-	✓	-	-
BR-M7100	-	-	-	-	✓
BR-M7120	-	-	-	✓	-
<a href="#">BR-M7000</a>	✓	✓	-	-	-
<a href="#">BR-M640</a>	-	-	✓	-	✓
<a href="#">BR-S700</a>	✓	✓	-	-	-
<a href="#">BR-R785</a>	✓	✓	-	-	-
BR-U8000	-	-	-	-	✓
BR-U8020	-	-	-	✓	-

## Brake pad line-up

C-192

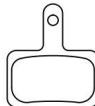
### Brake pad for hydraulic disc brake (4-piston) [C-652](#)

Pad Shape Type									
		D-type	Narrow type	H-type	Narrow type	N-type	Narrow type	P-type	Narrow type
Model No.		BP-D03S-RX	BP-D02S-MX	BP-H03A-RF	BP-H03C-MF	BP-N03A-RF	BP-N04C-MF	BP-P03A-RF	BP-P04C-MF
		Resin	Metal	Resin	Metal	Resin	Metal	Resin	Metal
Characteristics	Modulation	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Power	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Durability	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-fading	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★
	Silence	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Pad Radiator fin		-	-	✓	✓	✓	✓	✓	✓
High heat insulation		-	-	-	-	-	-	-	-
Pad Back plate	Titanium	-	-	-	-	-	-	-	-
	Aluminum	-	-	✓	-	✓	-	✓	-
	Stainless steel/ Aluminum	-	-	-	✓	-	✓	-	✓
	Stainless steel	✓	✓	-	-	-	-	-	-
<a href="#">BR-M9220</a>	Hydraulic	Option	Option	-	-	Option	Option	Standard *	Standard *
<a href="#">BR-M8220</a>	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-M6120	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

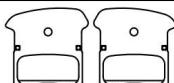
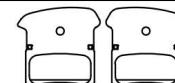
C-653

Pad Shape Type									
		B-type		G-type					
		Wide type		Narrow type					
Model No.		BP-B03S-RX	BP-B05S-RX	BP-G03A-RX	BP-G05A-RX	BP-G03S-RX	BP-G05S-RX	BP-G04S-MX	BP-G04Ti-MX
Characteristics	Modulation	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Power	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Durability	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-fading	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	Silence	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Pad Radiator fin		-	-	-	-	-	-	-	-
High heat insulation		-	-	✓	✓	✓	✓	-	-
Pad Back plate	Titanium	-	-	-	-	-	-	-	✓
	Aluminum	-	-	✓	✓	-	-	-	-
	Stainless steel/Aluminum	-	-	-	-	-	-	-	-
	Stainless steel	✓	✓	-	-	✓	✓	✓	-
<a href="#">BR-M9200</a>	Hydraulic	-	-	-	-	-	-	-	-
<a href="#">BR-M8200</a>	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-M8000	Hydraulic	-	-	Standard	Standard	-	-	Option	-
BR-M6100	Hydraulic	-	-	-	Standard	Standard	-	Option	-
BR-M6000	Hydraulic	-	-	Standard	Standard	-	-	Option	-
<a href="#">BR-MT805</a>	Hydraulic	-	-	-	-	-	-	-	-
BR-MT500	Hydraulic	Standard	Standard	-	-	-	-	-	-
<a href="#">BR-MT400</a>	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							
							
		Narrow type					
Model No.		BP-K03S-RX	BP-K05S-RX	BP-K03Ti-RX	BP-K05Ti-RX	BP-K04S-MX	BP-K04Ti-MX
		Resin	Resin	Resin	Resin	Metal	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	✓	✓	-	-	✓	-
<a href="#">BR-M9200</a>	Hydraulic	-	-	-	Standard	-	Standard
<a href="#">BR-M8200</a>	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-M8000	Hydraulic	-	-	-	-	-	-
BR-M6100	Hydraulic	-	-	-	-	-	-
BR-M6000	Hydraulic	-	-	-	-	-	-
<a href="#">BR-MT805</a>	Hydraulic	-	Standard	-	-	Standard	-
BR-MT500	Hydraulic	-	-	-	-	-	-
<a href="#">BR-MT400</a>	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-RST85	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.	Resin	BP-J03A-RF	BP-J05A-RF	BP-J04C-MF	BP-L03A-RF
		Resin	Resin	Metal	Resin
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	—	—	—	—
<a href="#">BR-M9200</a>	Hydraulic	—	—	—	—
<a href="#">BR-M8200</a>	Hydraulic	—	Option	Option	—
BR-M9100	Hydraulic	—	—	—	—
BR-M9110	Hydraulic	—	—	—	—
BR-M8100	Hydraulic	Option	Option	Option	—
BR-M8110	Hydraulic	—	—	—	Option
BR-M7100	Hydraulic	Option	Option	Option	—
BR-M7110	Hydraulic	—	—	—	Option
BR-M8000	Hydraulic	Standard	Standard	Option	—
BR-M6100	Hydraulic	Standard	Standard	—	—
BR-M6000	Hydraulic	Standard	Standard	—	—
<a href="#">BR-MT805</a>	Hydraulic	—	—	—	Option
BR-MT500	Hydraulic	—	—	—	—
<a href="#">BR-MT400</a>	Hydraulic	—	—	—	—
BR-MT410	Hydraulic	—	—	—	—
BR-MT200	Hydraulic	—	—	—	—
BR-M375	Mechanical	—	—	—	—
BR-TX805	Mechanical	—	—	—	—
BR-R9270	Hydraulic	—	—	Standard	Standard
BR-R9170	Hydraulic	—	—	Standard	Standard
BR-R8170	Hydraulic	—	—	Standard	Standard
BR-R8070	Hydraulic	—	—	Standard	Standard
BR-R7170	Hydraulic	—	—	Standard	Standard
BR-R7070	Hydraulic	—	—	Standard	Standard
BR-4770	Hydraulic	—	—	Option	Option
BR-RS785	Hydraulic	Standard	Standard	Standard	—
BR-RS405	Hydraulic	—	—	—	Option
BR-RX820	Hydraulic	—	—	Standard	Standard
<a href="#">BR-RX820-LE</a>	Hydraulic	—	—	Standard	Standard
BR-RX810	Hydraulic	—	—	Standard	Standard
BR-RX410	Hydraulic	—	—	—	Standard
BR-RX400	Hydraulic	—	—	Standard	Standard
BR-UR300	Hydraulic	—	—	—	—
BR-S7000	Hydraulic	—	—	—	—
BR-RS305	Mechanical	—	—	—	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%

## How to read Model No. C-194

(1) (2) (3) (4) (5) (6)  
**S M - M A - F 2 0 3 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				
			140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)	220 mm (LL)
Post mount	Front	140 mm direct	Direct mount	SM-MA90-F180P/P SM-MA-F180P/P2 (for R785)	-	-	-
		160 mm direct	-	Direct mount	SM-MA90-F180P/P SM-MA-F180P/P2	SM-MA-F203P/P	-
		180 mm direct	-	-	Direct mount	SM-MA90-F203P/PM SM-MA-F203P/PM	SM-MA-F220P/PM
		200 mm direct	-	-	-	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-F203P/P	-
		180 mm direct	-	-	Direct mount	SM-MA90-F203P/PM SM-MA-F203P/PM	SM-MA-F220P/PM
		200 mm direct	-	-	-	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		
			140 mm (SS)	160 mm (S)	180 mm (M)
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

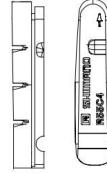
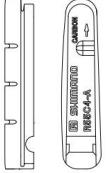
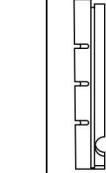
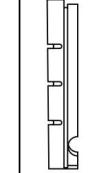
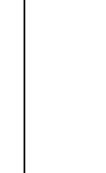
\* SHIMANO easy flip-flop bracket system which allow 1 bracket to be compatible with 2 rotor size.

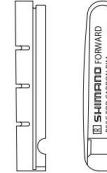
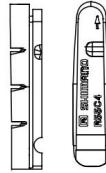
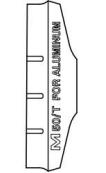
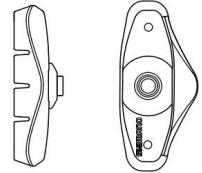
## Brake / Shoe line-up

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	Option	-
BR-R353	-	-	-	Option	-

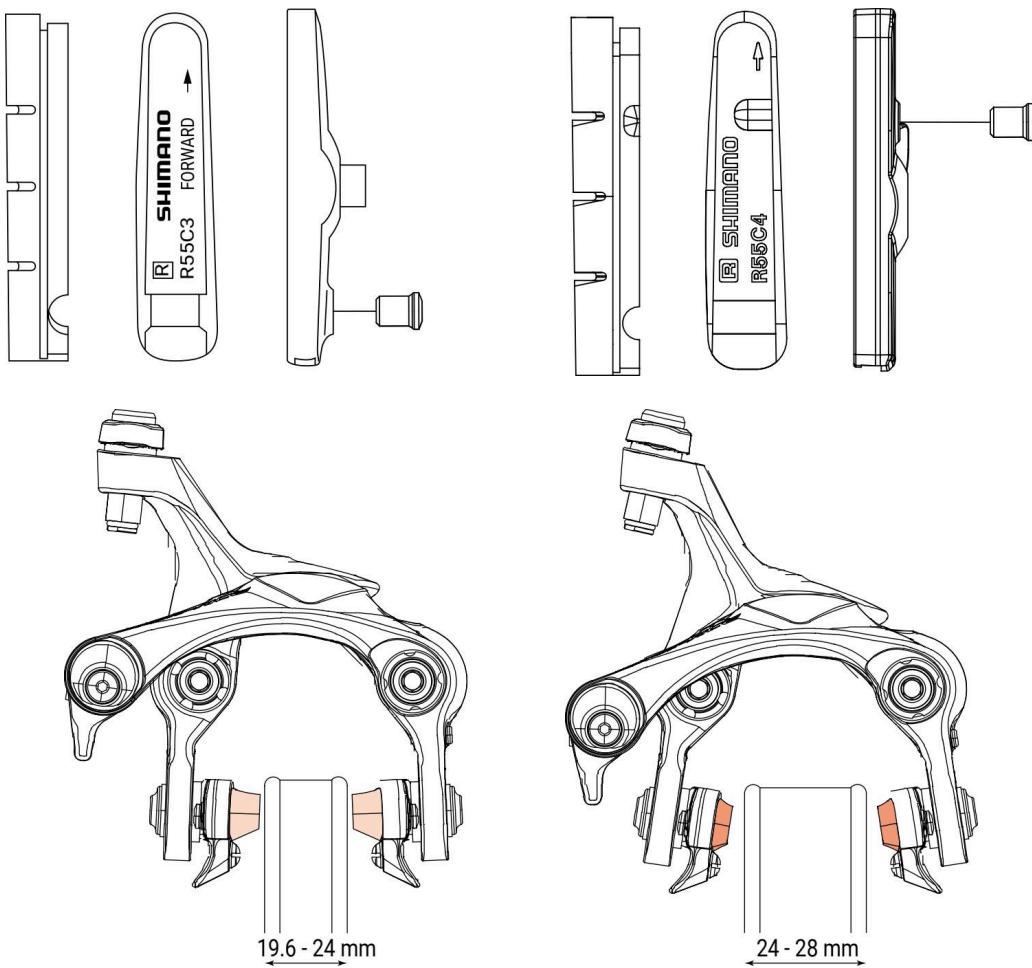
Model No.	M65T3	M65T4	S70C	S70C (Severe Condition Shoes)	S70T	S65T
Brake shoe shape						
Cartridge type	-	-	✓	✓	-	-
Recommended rim	Alumite only	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Characteristics						
DRY Power	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
WET Power	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Silence	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Anti-fading	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Durability (on road)	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Durability (muddy condition)	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Anti-rim attack	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
BR-T610	-	-	Standard	-	Option	-
BR-T4000	Option	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	Option	-
	BR-R9210	Standard	Option	Option	-
	BR-R9100	Standard	Option	Option	-
	BR-R9110	Standard	Option	Option	-
	BR-R8100	Standard	Option	Option	-
	BR-R8110	Standard	Option	Option	-
	BR-RS811-R	Standard	Option	Option	-
	BR-R8000	Standard	Option	Option	-
	BR-R8010	Standard	Option	Option	-
	BR-R7000	Standard	Option	Option	-
	BR-R7010	Standard	Option	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



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

## 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	
TIAGRA	BR-5700	-
SORA	BR-4700	✓
SHIMANO CLARIS	BR-R3000	✓
	BR-R2000	✓
Others		-

C-306

## Compatibility between brake systems

C-466

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

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

		V-BRAKE	Roller Brake
	<b>BR-T780 BR-MX70 BR-R573 BR-R463 BR-R353 BR-T670 BR-T610 <b>BR-T4010</b> BR-T4000</b>	With POWER MODULATOR* model <b>BR-T780</b> with SM-PM70 <b>BR-T670</b> with SM-PM70 BR-T610 with SM-PM70 <b>BR-T4010</b> with SM-PM40 BR-T4000 with SM-PM40 <b>BR-R573</b> with SM-PM70 <b>BR-R463</b> with SM-PM40 BR-R353 with SM-PM70	<b>BR-C6061-F BR-C6060-F BR-C6051-F BR-C6050-F BR-C6001 BR-C6000 BR-C3011 BR-C3010 BR-C3001 BR-C3000</b>
V-BRAKE Levers (2-finger)	<b>ST-M4000 ST-EF41 ST-TX800 <b>ST-M370</b> ST-M310 <b>ST-EF510</b> ST-EF500 <b>ST-EF65</b></b>	✓	✓
ST-T4000 ST-T3000	<b>BL-T610 <b>BL-M571</b> BL-T4000 BL-MX70</b>	✓	
V-BRAKE Levers (3-finger)	<b>BL-T780 BL-T611 <b>BL-T670</b> <b>BL-T780-B</b> BL-T4010 <b>BL-T670-B</b></b>		✓
Brake Levers with switch	<b>ST-R240</b>	✓	✓
	<b>BL-R780 BL-4700 BL-R3000 BL-R2000 <b>BL-2400</b></b>		NOTE
V-BRAKE lever with switch	<b>ST-M310 (4-finger) <b>ST-EF65</b> (4-finger) <b>ST-EF510</b> (4-finger) ST-EF500 (4-finger) BL-C6000</b>		✓
	<b>BL-C6010 SB-C6000-8 SB-C3000-7</b>		NOTE

\* POWER MODULATOR must be used for front brake



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

## NOTE

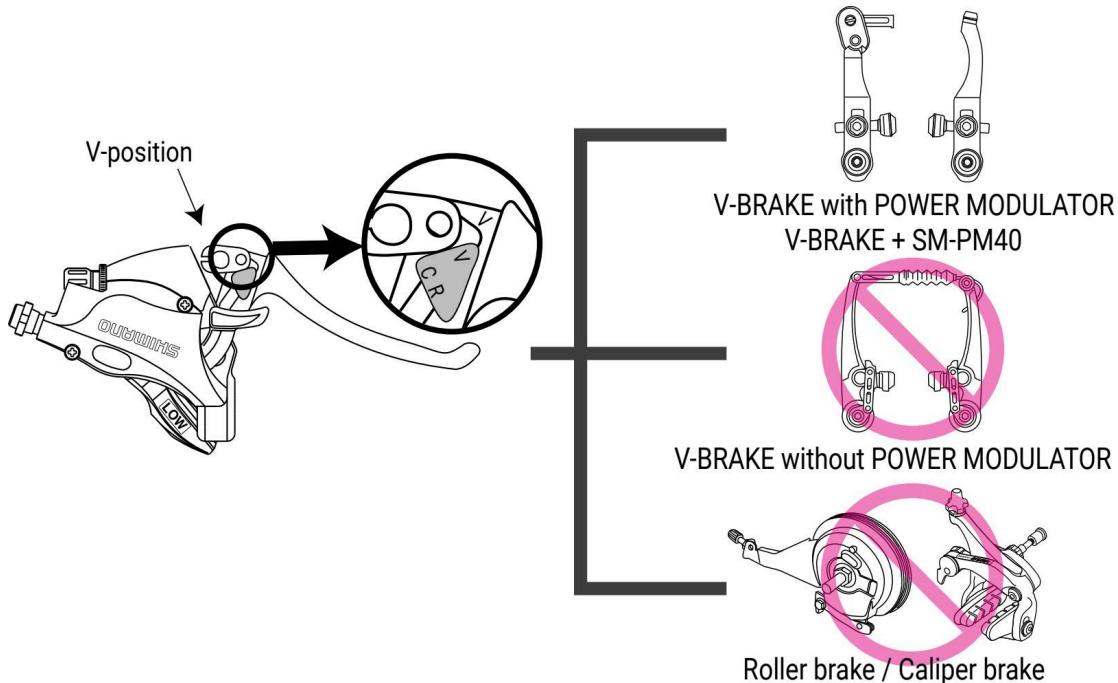
This combination will not provide the sufficient amount of braking force.

# Brake lever with switch compatibility

C-467

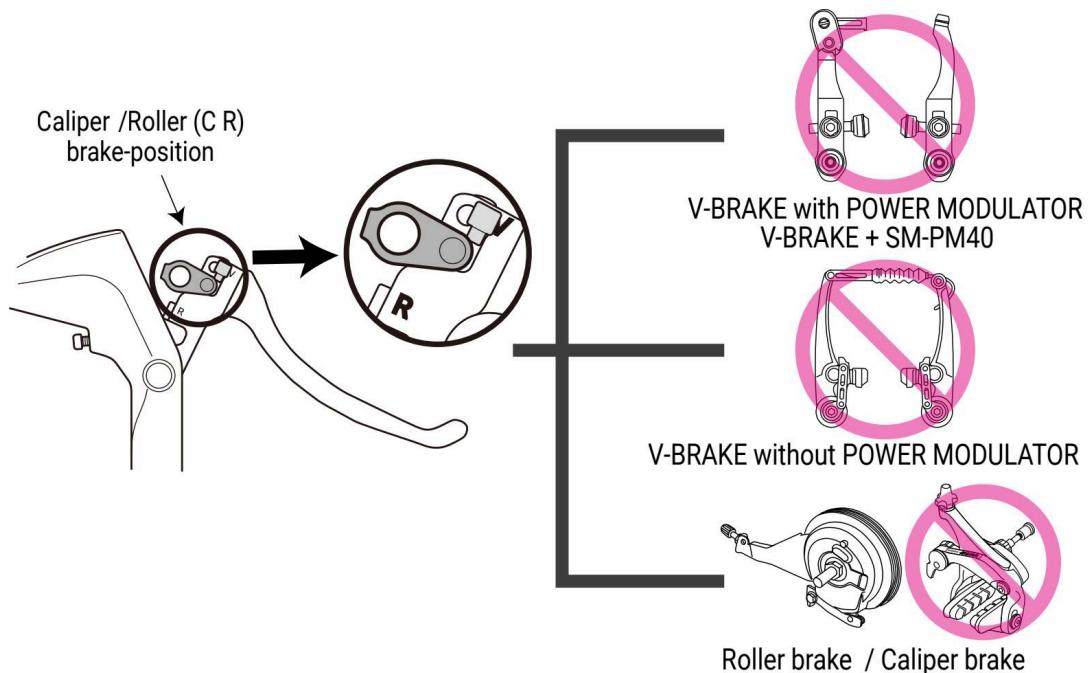
Four finger brake levers such as brake levers are equipped with a switch to change between the V-BRAKE with modulator mode (for example with SM-PM40) and the caliper brake or roller brake mode.

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

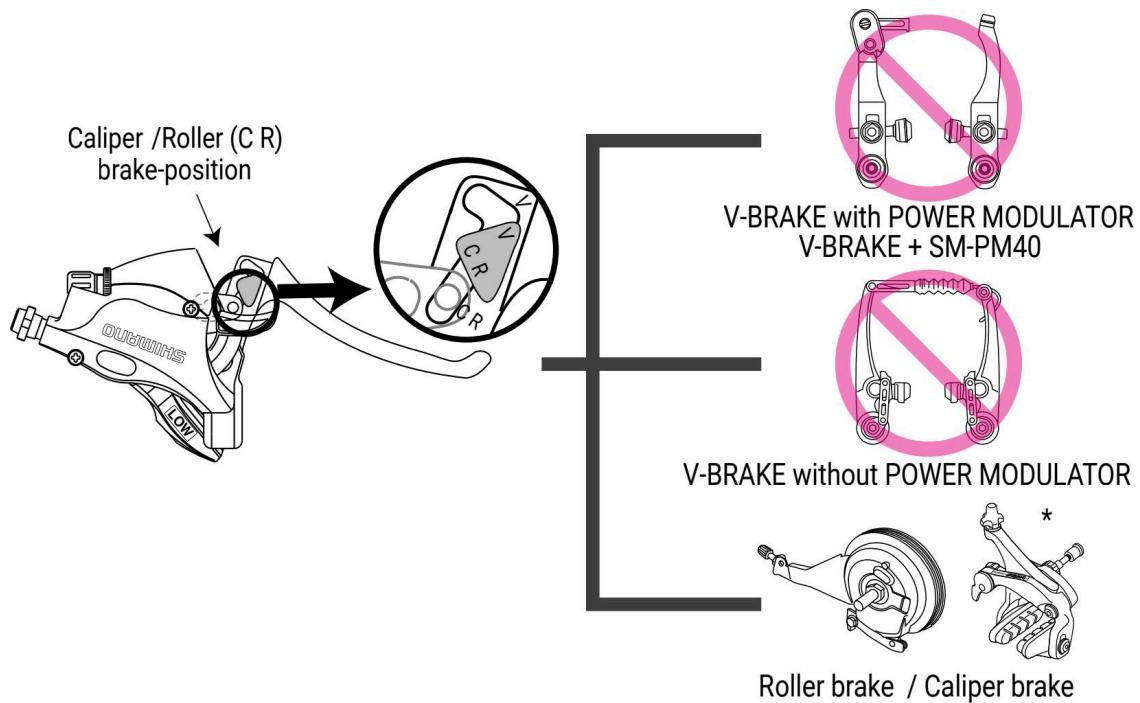


## For Caliper brake / Roller brake C-469

BL-C6010



## Other models



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

Please refer Spec Hand Book for caliper brake compatibility.

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

### WARNING

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

## FREEHUB and cassette spline compatibility

C-731

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

Free unit type	FREEHUB		Compatible cassette 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 of ROAD 11-speed are compatible with HG spline L by installing 1.85 mm spacer.

\*4 CS-HG800 / CS-HG700 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](#)

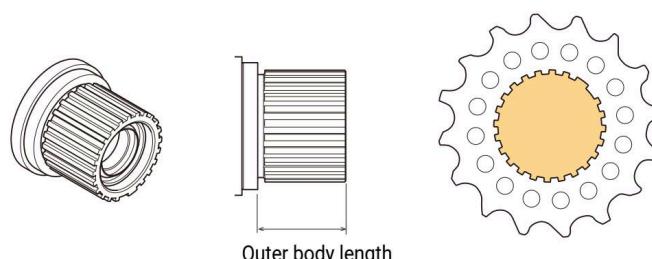
\*6 Only CS-HG210-7 and CS-HG400-7 are compatible.

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

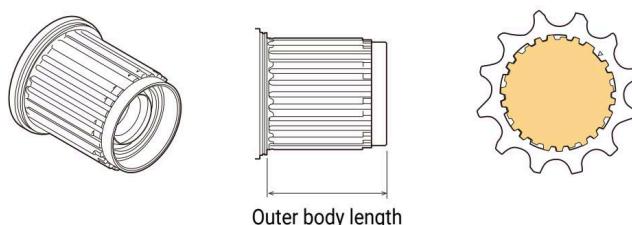
### Outer body length

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

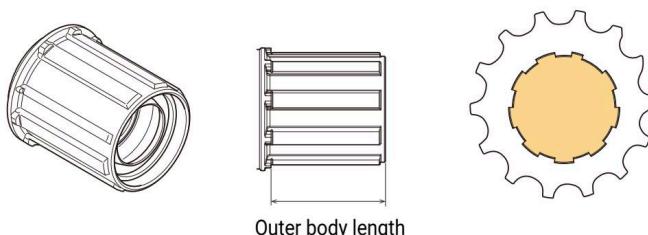
#### MICRO SPLINE



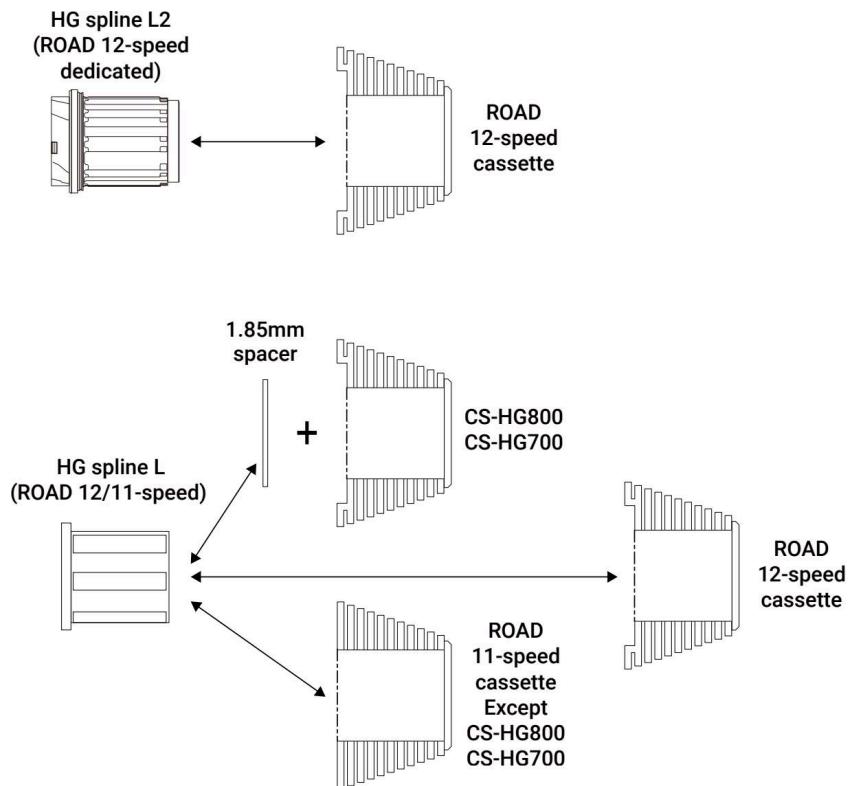
#### HG spline L2



#### HG spline L/M/S

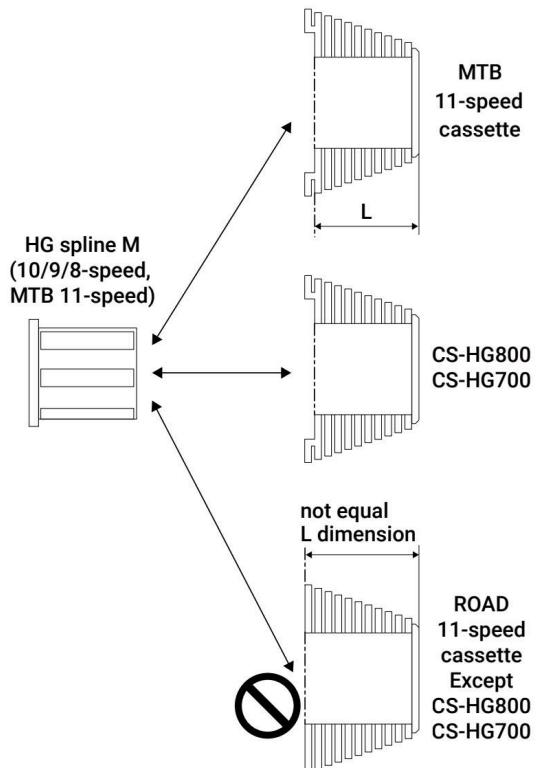


## ROAD 12/11-speed FREEHUB compatibility



## MTB 11-speed FREEHUB compatibility

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



# 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	<u>RD-RX827</u>	<u>RD-RX717</u>
	-	GS	SGS	-	SGS	SGS
	Front double	Front single	Front single	Front double	Front single	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-9000
	-	SS	GS Front double	SS	GS Front double	SS
11-23T	-	-	-	-	-	✓
11-25T	✓	✓	-	-	-	✓
11-28T	✓	✓	✓	✓	✓	✓
11-30T	✓	✓	✓	✓	✓	-
11-32T	-	-	✓	-	✓	-
11-34T	-	-	✓	-	✓	-
11-40T	-	-	-	-	-	-
11-42T	-	-	-	-	-	-
12-25T	✓	✓	-	✓	-	✓
12-28T	✓	✓	✓	-	✓	✓
14-28T	✓	✓	-	✓	-	✓

Gear teeth	RD-6800 RD-6870 <b>RD-5800</b>		RD-RX800 RD-RX805	RD-RX810 RD-RX815	RD-RX812 RD-RX817	<b>RD-U5000-SS</b>
	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	-	-	✓	✓	-	-
11-40T	-	-	-	-	✓	-
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

LINKGLIDE cassette are not compatible with MICRO SPLINE FREEHUB.

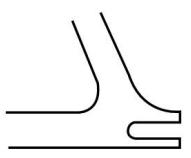
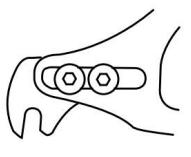
Freewheel body type	FREEHUB spec.	Model No.	CS-LG700-11 CS-LG600-11 CS-LG400-11	CS-LG600-10 CS-LG400-10 CS-LG300-10	CS-LG400-9 CS-LG300-9
HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400-7 / CS-HG210-7)	O.L.D. 148 mm, E-THRU type	FH-M8010-B	✓	✓	✓
		FH-M6010-B			
		FH-TC600-HM-B			
		FH-TC500-HM-B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

\*1 Need low spacer (1.85 mm.)

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

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

C-471

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

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

# 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		
	SG-C6001-8CD	8s, Coaster brake & Disc brake		
INTER-7	SG-C3001-7R	7s, Roller brake	SM-7R45 SM-7C25 *1	CJ-NX10 / CJ-NX40
		7s, V-BRAKE		
	SG-C3001-7C	7s, Coaster brake	SM-7C25	CJ-NX10 / CJ-NX40
INTER-5E	SG-C3001-7D	7s, Disc brake	SM-7R45 SM-7C25 *1	CJ-NX10 / CJ-NX40
	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		
INTER-5	SG-C7002-5CD	5s, Coaster brake & Disc brake	SM-5S30	CJ-8S20 / CJ-8S40
	SG-5R30 (Japan Only)	5s, Roller brake, Japan only		
	SG-5R30-VS (Japan Only)	5s, V-BRAKE, Japan only		
	SG-5R35 (Japan Only)	5s, Roller brake, Alloy body, Japan only		
INTER-3	SG-5R35-VS (Japan Only)	5s, V-BRAKE, Alloy body, Japan only	SM-3R40	-
	SG-3R42 (Japan Only)	3s, Roller brake, Japan only		
	SG-3R40 (Japan Only)	-		
	SG-3R40	3s, Roller brake		SM-BC03 SM-BC06
	SG-3C41	3s, Coaster brake		-
	SG-3D55	3s, Disc brake		SM-BC03 SM-BC06
	SG-3R75	3s, Roller brake, Premium	SM-3S70	CJ-NX10 / CJ-NX40

\*1 Dedicated specs for belt drive system

## 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

## 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 + <a href="#">RT-CL300</a> / SM-RT30 / RT-EM300 / SM-RT66	
	Group #5	BR-MT520 / BR-MT420 + <a href="#">RT-CL300</a> / 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-C7050-5D / 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	Brake lever reach adjustment might be required to follow minimum braking force value of 5.5.1.3
	180 mm (M size)	c = 1.3	
Group #3	203 mm (L size)	c = 1.3	Brake lever reach adjustment might be required to follow minimum braking force value of 5.5.1.3
	180 mm (M size)	c = 1.1	
Group #4,5	203 mm (L size)	c = 1.1	Brake lever reach adjustment might be required to follow minimum braking force value of 5.5.1.3
	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-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						
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	
12-speed	CS-M9200-12	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	
	CS-M8200-12	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	
	CS-M9101-12	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	
	CS-M9100-12	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	
	CS-M8100-12	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	
	CS-M7100-12	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	
	CS-M6100-12	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	
11-speed	CS-M9001	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	
	CS-M8000	-	-	-	-	-	-	✓	✓	-	✓	-	-	-	-	-	-	-	
	CS-M7000	-	-	-	-	-	-	✓	✓	-	✓	-	-	-	-	-	-	-	
	CS-M5100-11	-	-	-	-	-	-	✓	-	-	✓	-	-	-	-	-	-	-	
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-HG300-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CS-HG201-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CS-HG200-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CS-HG400-9	-	✓	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	CP-FH76	CP-FH76	
8-speed	CS-HG300-9	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CS-ROAD	-	✓	-	-	-	-	-	-	-	-	-	-	CP-FH08	CP-FH35	CP-FH31	-	-	
	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
7-speed	CS-HG41-8	-	-	✓	-	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	
	CS-HG31-8	-	-	-	✓	-	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG41-8	-	-	-	✓	✓	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
	CS-HG31-8	-	-	-	-	✓	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	
	CS-HG400-8	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-	
	CS-HG300-8	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	
	CS-HG200-8	-	-	-	-	✓	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76
7-speed	CS-HG41-7	-	✓	-	-	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	
	CS-HG400-7	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CS-HG210-7	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CS-HG210-7	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CS-HG200-7	-	-	-	✓	-	-	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76	
	CS-HG200-7	-	✓	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	-	-	

## 12-speed

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

Cassette			Spoke protector model			
Model No.	Number of largest sprocket teeth		WH-M9200	WH-M9220	WH-M8200	
	45T	51T				
<a href="#">CS-M9200-12</a>	✓	✓	<a href="#">CP-WM92A</a>	<a href="#">CP-WM92A</a>	<a href="#">CP-WM92A</a>	<a href="#">CP-WM92A</a>
<a href="#">CS-M8200-12</a>	✓	✓	<a href="#">CP-WM92A</a>	<a href="#">CP-WM92A</a>	<a href="#">CP-WM92A</a>	<a href="#">CP-WM92A</a>

[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		WH-M8100	WH-M8120	WH-MT620	WH-MT601	WH-MT501	WH-M9000 WH-M9020 WH-M8000 WH-M8020 WH-M8000-B WH-M8020-B
	45T	51T						
<a href="#">CS-M9101-12</a>	✓	✓	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)	-
<a href="#">CS-M9100-12</a>	✓	✓						
<a href="#">CS-M8100-12</a>	✓	✓						
<a href="#">CS-M7100-12</a>	✓	✓						
<a href="#">CS-M6100-12</a>	-	✓	-	-	-	-	-	-

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

## 11-speed

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

Cassette							Spoke protector model				
Model No.	Number of largest sprocket teeth						WH-RX870	WH-MT600	WH-MT500	WH-MT35 WH-MT35-275 WH-MT35-29	
	40T	42T	45T	46T	50T	51T					
<a href="#">CS-M9001</a>	✓	-	-	-	-	-	CP-WH26 (for 40T or 42T)	CP-WH17-A	CP-WH26	-	-
<a href="#">CS-M8000</a>	✓	✓	-	✓	-	-		CP-WH17-A	CP-WH26	-	-
<a href="#">CS-M7000</a>	✓	✓	-	✓	-	-		CP-WH17-A	CP-WH26	-	-
<a href="#">CS-M5100-11</a>	-	✓	-	-	-	✓		CP-WH17-A (for 42T)	CP-WH26 (for 42T)	-	-
<a href="#">CS-LG700-11</a>	-	-	✓	-	✓	-		-	-	-	-
<a href="#">CS-LG600-11</a>	-	-	-	-	✓	-		-	-	-	-
<a href="#">CS-LG400-11</a>	-	-	✓	-	✓	-		-	-	-	-

## 10-speed

Model No.	Cassette								Spoke protector model				
	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	-	-	-	✓	-	-	-	✓	-	-	-	-	-

Model No.	Cassette								Spoke protector model				
	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-HG300-9	✓	-	-	-	-	-	-	-	-	-	-
CS-HG201-9	-	-	-	-	-	-	-	-	-	-	-
CS-HG200-9	-	-	-	-	-	-	-	-	-	-	-
CS-HG400-9	✓	-	-	-	-	-	-	-	-	-	-
CS-HG300-9	-	-	-	-	-	-	-	-	-	-	-
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	-	✓	✓	✓	-	-	-	-	-	-	CP-WH12
CS-HG300-9	✓	-	-	-	-	-	-	-	-	-	CP-WH08
CS-HG201-9	-	-	-	-	-	-	-	-	-	-	-
CS-HG200-9	-	-	-	-	-	-	-	-	-	-	-
CS-HG400-9	✓	-	-	-	-	-	-	-	-	-	-
CS-HG300-9	-	-	-	-	-	-	-	-	-	-	-
CS-LG400-9	-	-	-	✓	✓	✓	-	-	-	-	-
CS-LG300-9	-	-	-	✓	✓	✓	-	-	-	-	-

Model No.	Speed				Number of largest sprocket teeth										
	9	10	11**	12	23T	25T	27T	28T	30T	32T*	34T	36T			
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						
WH-R9170-C40	-	✓	✓	-	-	CP-W1460					-	-	-		
WH-R9100-C40	-	✓	✓	-	-	CP-W124					-	-	-		
WH-R9100-C24	-	-	✓	-	CP-WH23	CP-W120					-	-	-		
WH-R9100-C24	-	✓	-	-	CP-W020					-	-	-	-		
WH-RS770-C30	-	-	✓	-	-	CP-W1460					CP-W1460	-	-		
WH-RS770-C30	-	✓	-	-	-	CP-W1460					-	-	-		
WH-RS700-C30	-	-	✓	-	-	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		-	-		
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		-	-		
WH-RS170	-	✓	-	-	CP-FH40 CP-FH41				CP-FH40 CP-FH41	CP-WH12		CP-WH12	-		
WH-RS171 (700c/650b)	-	-	✓	-	CP-FH08				-	CP-WH12		-	-		
WH-RX010-CL	-	-	✓	-	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					-	-	-		
WH-RX880 (HG spline L2)	-	-	-	✓	-	-					CP-WRX8A		-		
WH-RX870	-	-	✓	✓	-	-	-	-	-	CP-WH30		-	-		
WH-RX570	-	✓	✓	-	-	CP-WH41				CP-WH12		-	-		

\* For compact crank set

\*\* 11-speed : CS-R9100 / CS-R8000 / CS-R7000 / CS-6800 / CS-5800

## Spoke protector for Road

Speed	Model No.	Number of largest sprocket teeth										Spoke holes number			
		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*/ MF-TZ21*	-

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

\* w/ Spoke protector spec. is available

## Compatibility chart of E-TUBE PROJECT Cyclist/Professional v5.4.4

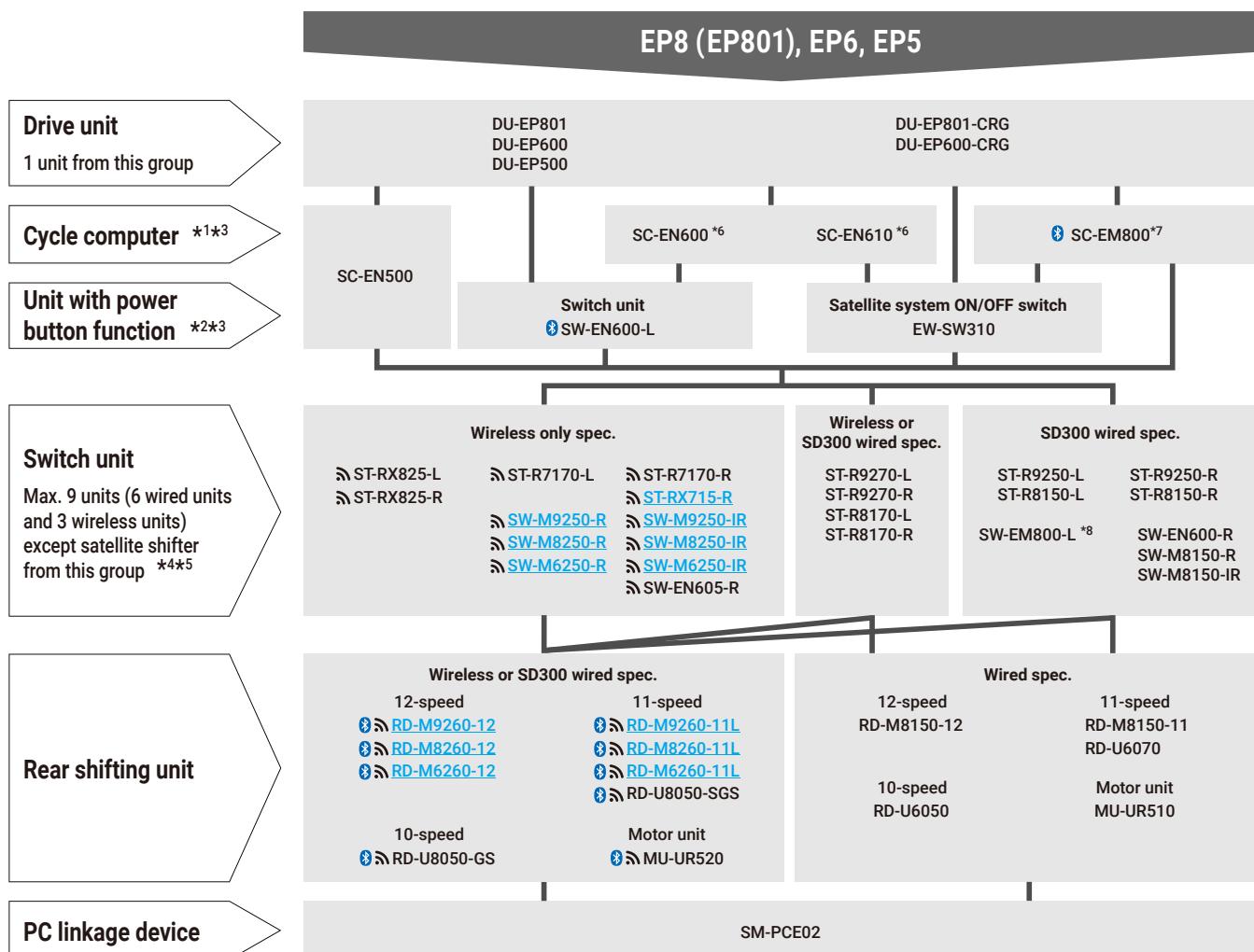
### 2nd generation (Gen.2) battery management system

C-525

This is a compatibility table when using the following batteries.

- SHIMANO E-BIKE SYSTEMS Gen.2 battery
- Battery with hardware and firmware compatible with Gen.2 made by partner manufacturers.

\* Gen.2 battery management system is not compatible with a battery with hardware and firmware compatible with conventional system made by partner manufacturers.



### 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 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

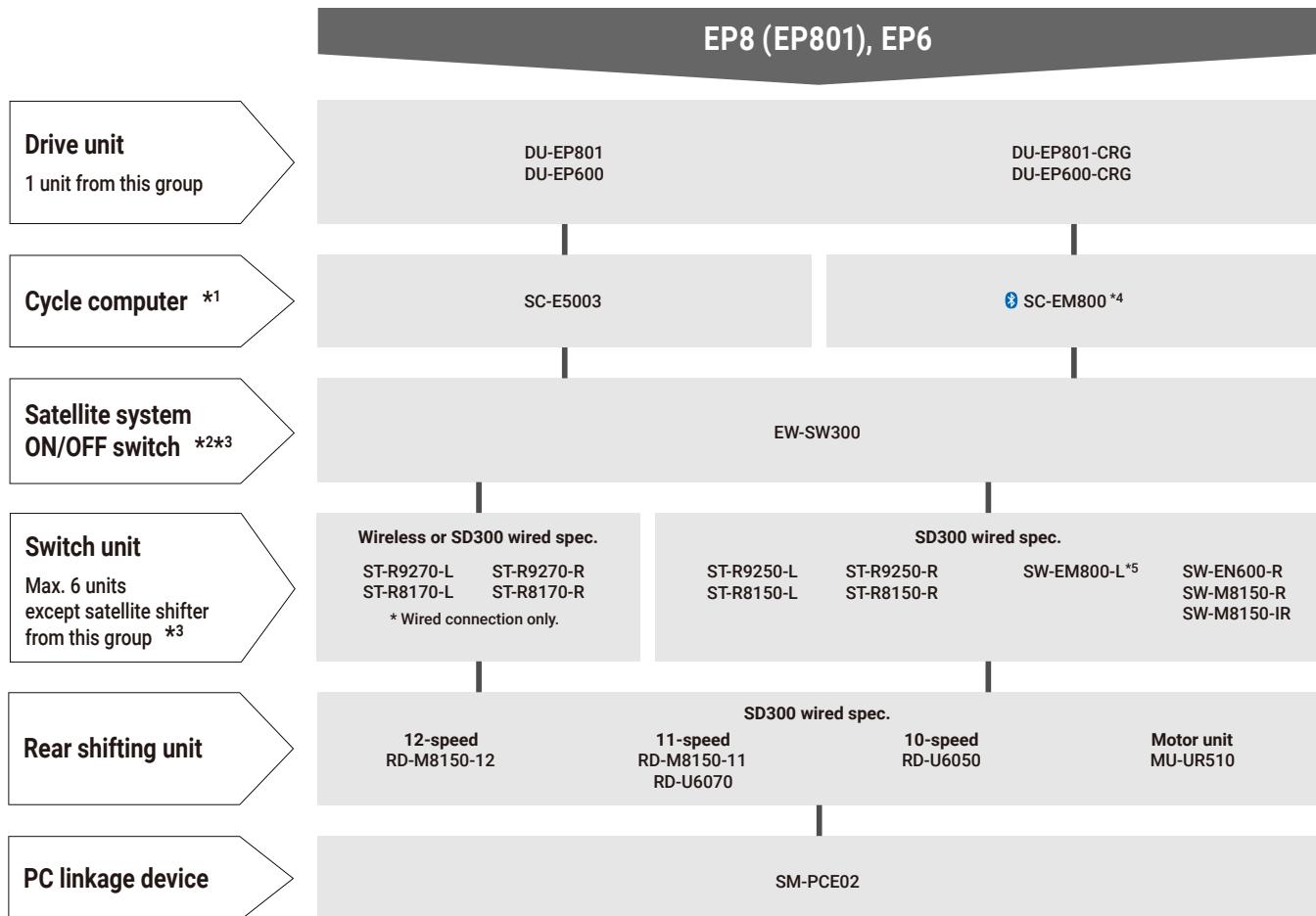
\*6 Switch unit is mandatory for assist control.

\*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.

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

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



### 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.

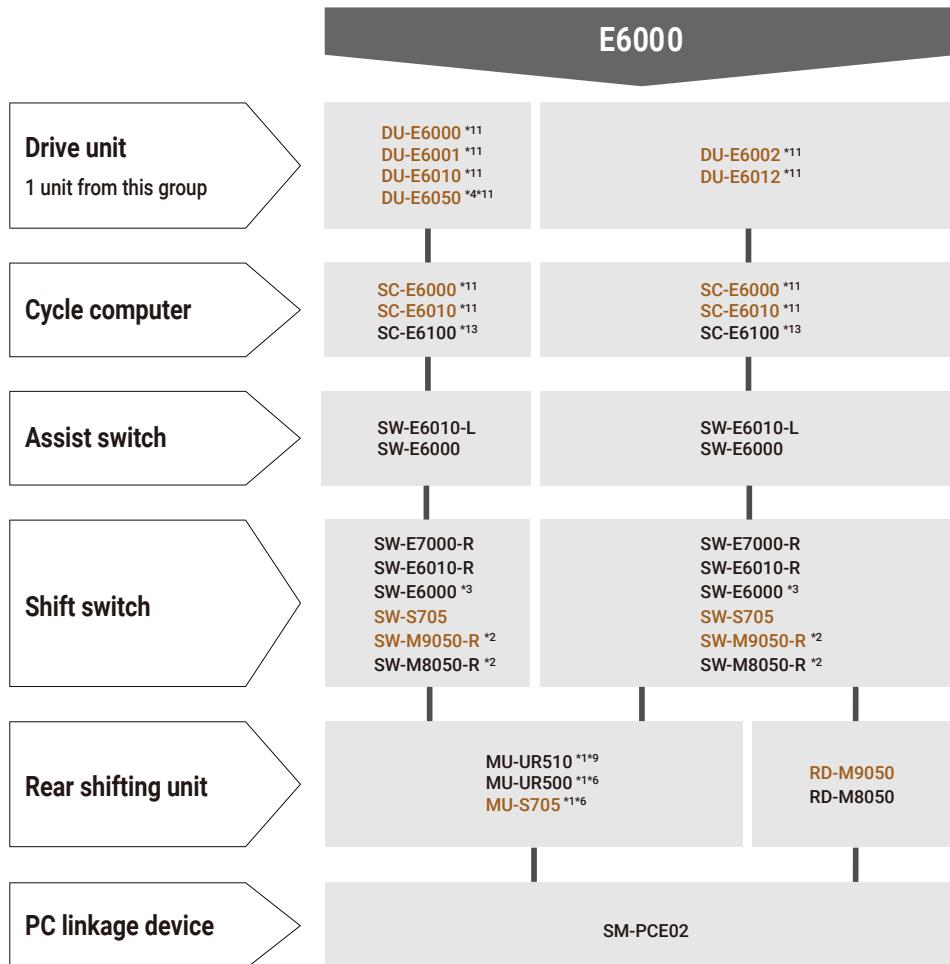
\*4 When drive unit (US Class 3) is connected, cycle computer can displays main screen (speed and assist bar) only.

\*5 Need to change switch setting by E-TUBE PROJECT to use as shift switch.

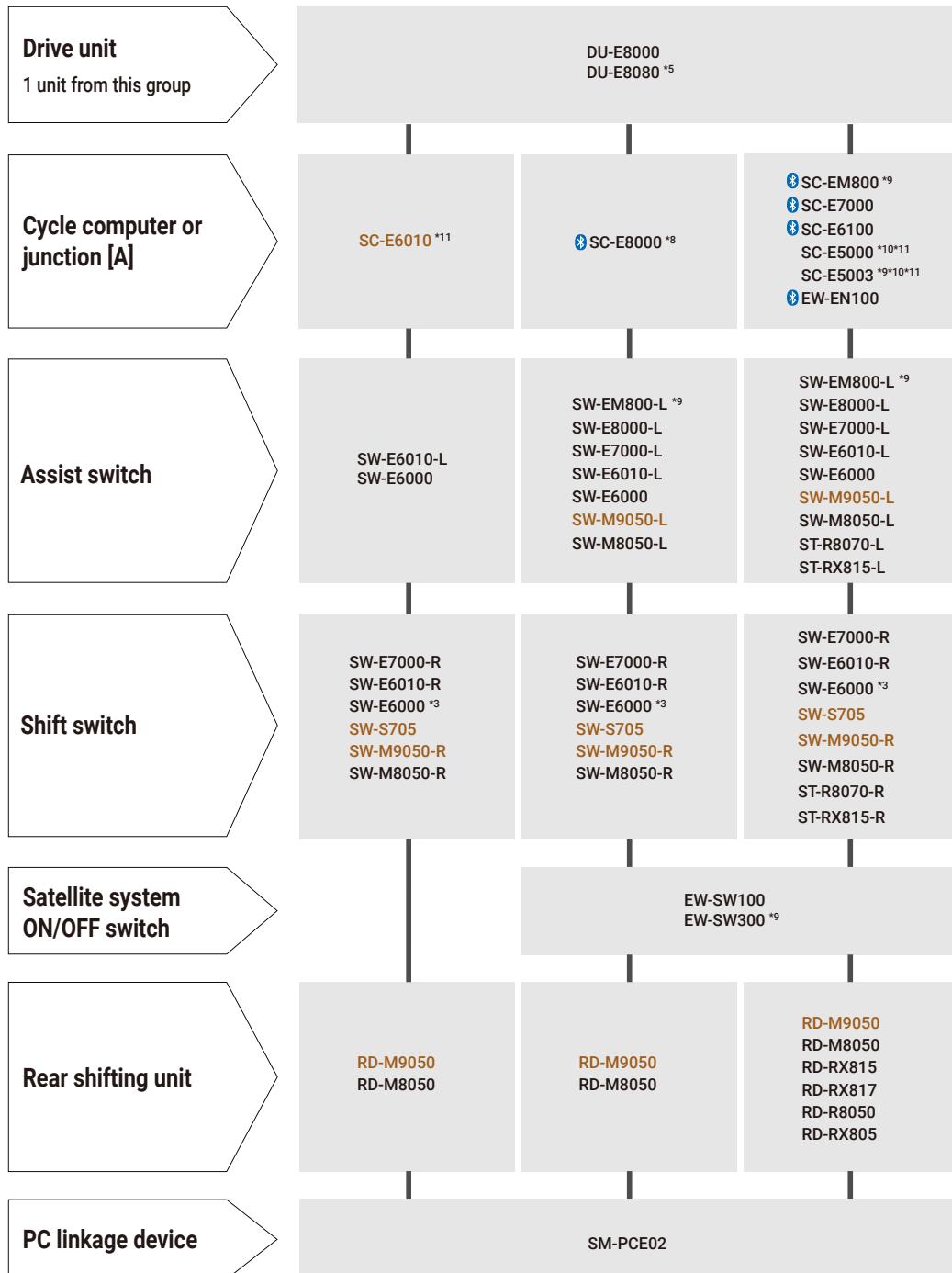
## 1st generation battery management system

\* This is a compatibility table when using the following batteries.

- SHIMANO E-BIKE SYSTEMS 1st generation battery
- Battery with hardware and firmware compatible with conventional system made by partner manufacturers.

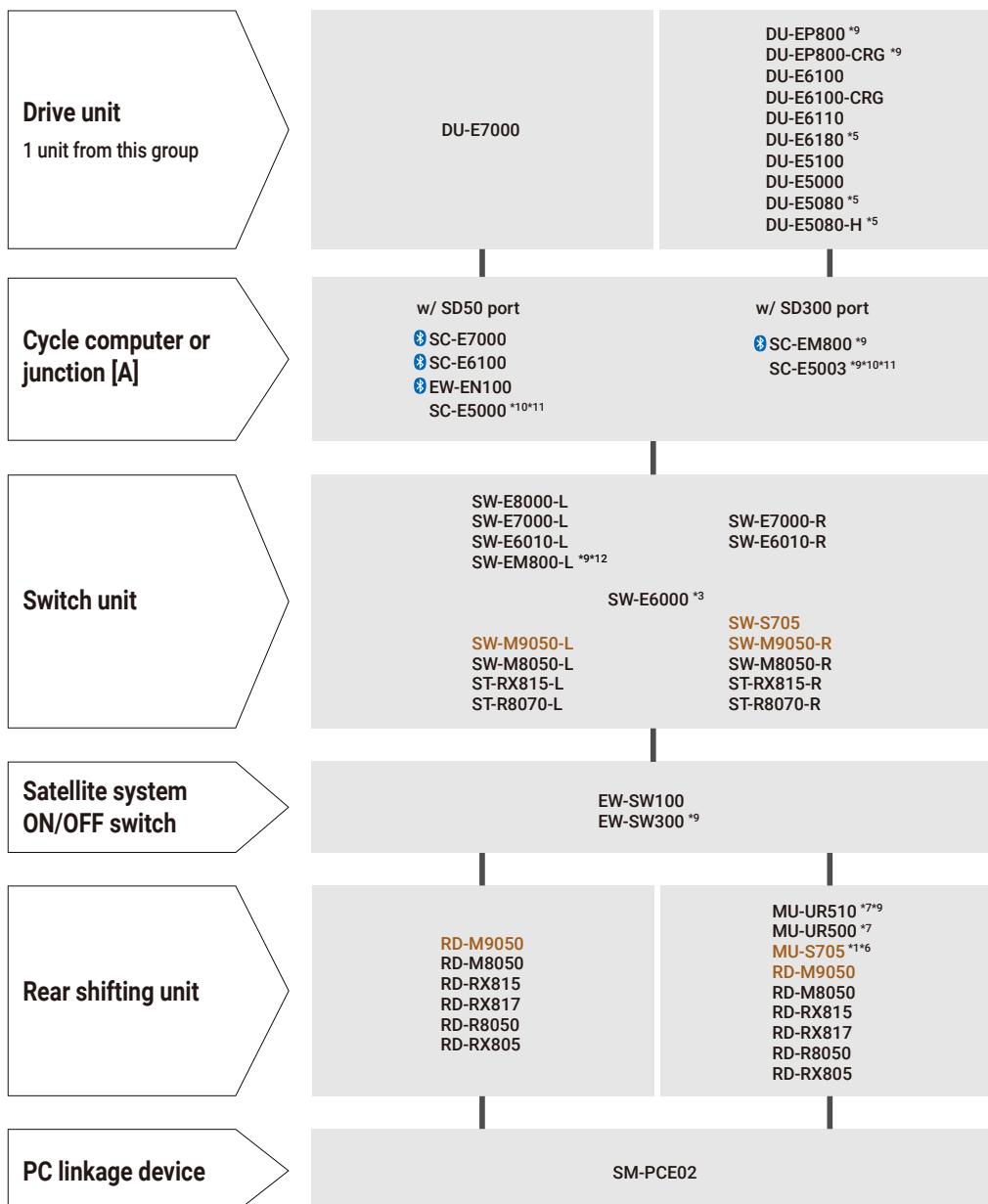


# E8000/E8080



E7000

EP8 (EP800)/E6100/E6180/  
E5100/E5000/E5080



### 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 North American market only.

\*5 Japanese market only.

\*6 Available only with 11-speed and 8-speed internal geared hubs.

\*7 Automatic gear shifting is available only with 8 speed and 5 speed internal geared hub system. (Not available with Rear Derailleur)

\*8 Not available in Japan market.

\*9 This unit has SD300 port, and needs EW-AD305 for connection with SD50 port unit.

\*10 SC-E5000, SC-E5003 is only for ø22.2 handlebar. Drop handlebar is unavailable.

\*11 Not supported by E-TUBE PROJECT Cyclist.

\*12 To use as a shift switch, the switch settings need to be changed in E-TUBE PROJECT.

\*13 To use SC-E6100, firmware version need to be updated 4.2.0 or later.

**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	
				CR-EM800 *1*4 32T	55	-	CD-EM800 w/o plate	
				SM-CRE80-12-B 34T/36T/38T			CD-EM800 (Chain line: 55 mm)	
				SM-CRE70-12-B 36T				
				SM-CRE80-12-B 34T/36T/38T	53	-	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 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	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		SM-CDE80 w/o plate
					50	Double	-
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 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	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-CDE80 w/o plate
				SM-CRE70 38T	50		
					50	Double	-
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 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	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-CDE80 w/o plate
				SM-CRE70 38T	50		
					50	Double	-
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 (Chain line: 55 mm)
				SM-CRE70-B 34T	53		
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80-R 47T	50	-	SM-CDE80 w/o plate
				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	CT-S510		
				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 C-656

### 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
				CR-EM800 *1*3 32T	55	-	CD-EM800 w/o plate
				SM-CRE80-12-B 34T/36T/38T			CD-EM800 (Chain line: 55 mm)
				SM-CRE70-12-B 36T	53	-	CD-EM800 SM-CDE80 SM-CDE70
				SM-CRE80-12-B 34T/36T/38T			-
				SM-CRE70-12-B 36T			
				SM-CRE80-R 47T	50	-	
				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 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	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 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	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 (Chain line: 55 mm)
				SM-CRE70-B 34T			
				SM-CRE80-B 34T/38T	53	-	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 (Chain line: 55 mm)
				SM-CRE70-B 34T	53		
				CR-ET600 38T/44T	50	Double	-
				SM-CRE80-R 47T	50	-	
				SM-CRE70 38T	50	-	SM-CDE80 w/o plate
				50	Double	-	-

**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		
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		-	
				SM-CRE70 38T		Double	
				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		Double	
				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				
				CR-ET600 38T/44T	50				
NEXUS INTER-8 (Di2, Mechanical)	CN-E6090-10 CN-E6070-9	CS-S500	FC-M8050 FC-E8050 FC-E8000 FC-E6100	SM-CRE61 38T/44T	46.5	Double	CT-S510		
				CR-ET600 38T/44T	50				
	HG 8-speed Single speed (1/2 inch x 1/8 inch)	SM-GEAR		SM-CRE61 38T/44T	46.5	Single			
				CR-ET600 38T/44T	50				
				SM-CRE61 38T/44T	46.5	w/o			
				CR-ET600 38T/44T	50				
				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				
				CR-ET600 38T/44T	50				
NEXUS INTER-5E (Di2, Mechanical)	CN-E6070-9 CN-NX10	CS-C7000	FC-M8050 FC-E8050 FC-E8000 FC-E6100	SM-CRE61 38T/44T	46.5	Single	CT-S510		
				CR-ET600 38T/44T	50				
				CR-ET600 38T/44T	50	w/o			
				SM-CRE61 38T/44T	46.5				
				CR-ET600 38T/44T	50	w/o			
				SM-CRE61 38T/44T	46.5				
				CR-ET600 38T/44T	50				

# DU-E6000 / DU-E6001 / DU-E6010 / DU-E6050 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
NEXUS INTER-8 (Di2, Mechanical)		SM-GEAR		46.5	Double		
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	CT-S510 *
	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	FC-E6000 FC-E6010 FC-E5000 FC-E5010	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	FC-E6000 FC-E6010 FC-E5000 FC-E5010	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
<a href="#">BL-M9200</a>	✓	✓	✓
<a href="#">BL-M9220</a>	✓	✓	✓
BL-M9100	✓	✓	-
BL-M9120	✓	✓	-
<a href="#">BL-M8200</a>	✓	✓	✓
BL-M8100	✓	✓	-
BL-M7100	✓	✓	-
BL-M6100	✓	✓	-
BL-M4100	✓	✓	-

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
<a href="#">BL-M9200</a>	✓	✓	✓	-	✓	✓	✓	✓
<a href="#">BL-M9220</a>	✓	✓	✓	-	✓	✓	✓	✓
BL-M9100	✓	✓	✓	-	✓	✓	✓	✓
BL-M9120	✓	✓	✓	-	✓	✓	✓	✓
<a href="#">BL-M8200</a>	✓	✓	✓	-	✓	✓	✓	✓
BL-M8100	✓	✓	✓	-	✓	✓	✓	✓
BL-M7100	✓	✓	✓	-	✓	✓	✓	✓
BL-M6100	✓	✓	✓	-	✓	✓	✓	✓
BL-M4100	✓	✓	✓	-	✓	✓	✓	✓

\*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
<a href="#">BL-M9000</a>	✓	✓	✓
<a href="#">BL-M9020</a>	✓	✓	✓
BL-M8000	✓	✓	✓
BL-T8100	✓	✓	✓
BL-T8000	✓	✓	✓
<a href="#">BL-M7000</a>	✓	✓	✓
<a href="#">BL-M6000</a>	✓	✓	✓
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
<a href="#">BL-M9000</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">BL-M9020</a>	✓	✓	✓	✓	✓	✓	✓	✓
BL-M8000	✓	✓	✓	✓	✓	✓	✓	✓
BL-T8100	✓	✓	✓	✓	✓	✓	✓	✓
BL-T8000	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">BL-M7000</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">BL-M6000</a>	✓	✓	✓	✓	✓	✓	✓	✓
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	✓	✓	✓

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	✓	✓	✓	✓	✓	✓	✓	✓

## Brake lever for mechanical brake (Mechanical disc brake / V-BRAKE / Caliper brake / Cantilever 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	✓	✓	✓

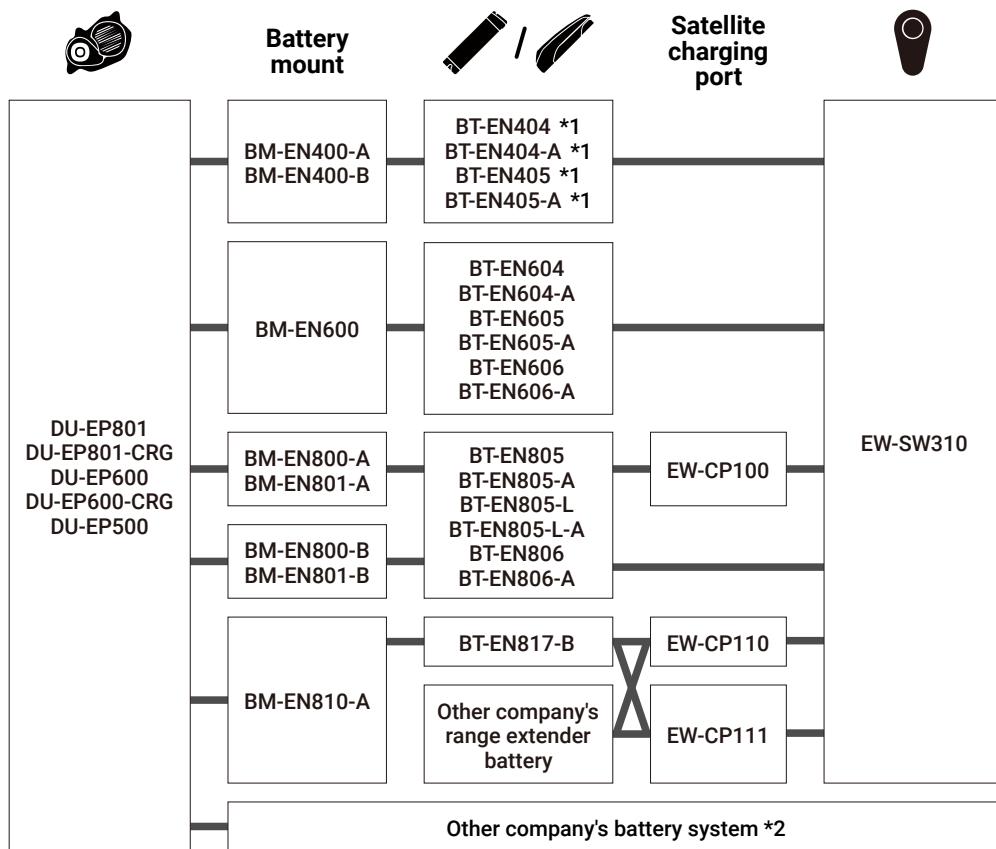
Model No.	SHIMANO E-BIKE SYSTEMS switch unit							
	SW-EM800-L	SW-EN600-L	SW-EN600-R	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SW-EN605-R
BL-T610	✓	✓	✓	✓	✓	✓	✓	✓
BL-T611	✓	✓	✓	✓	✓	✓	✓	✓
BL-T4000	✓	✓	✓	✓	✓	✓	✓	✓
BL-T4010	✓	✓	✓	✓	✓	✓	✓	✓
BL-C6010	✓	✓	✓	✓	✓	✓	✓	✓
BL-4700	✓	✓	✓	✓	✓	✓	✓	✓
BL-R3000	✓	✓	✓	✓	✓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

# Battery and battery mount compatibility

C-511

Batteries shipped in the country / region are different.

## For Gen.2 battery management system

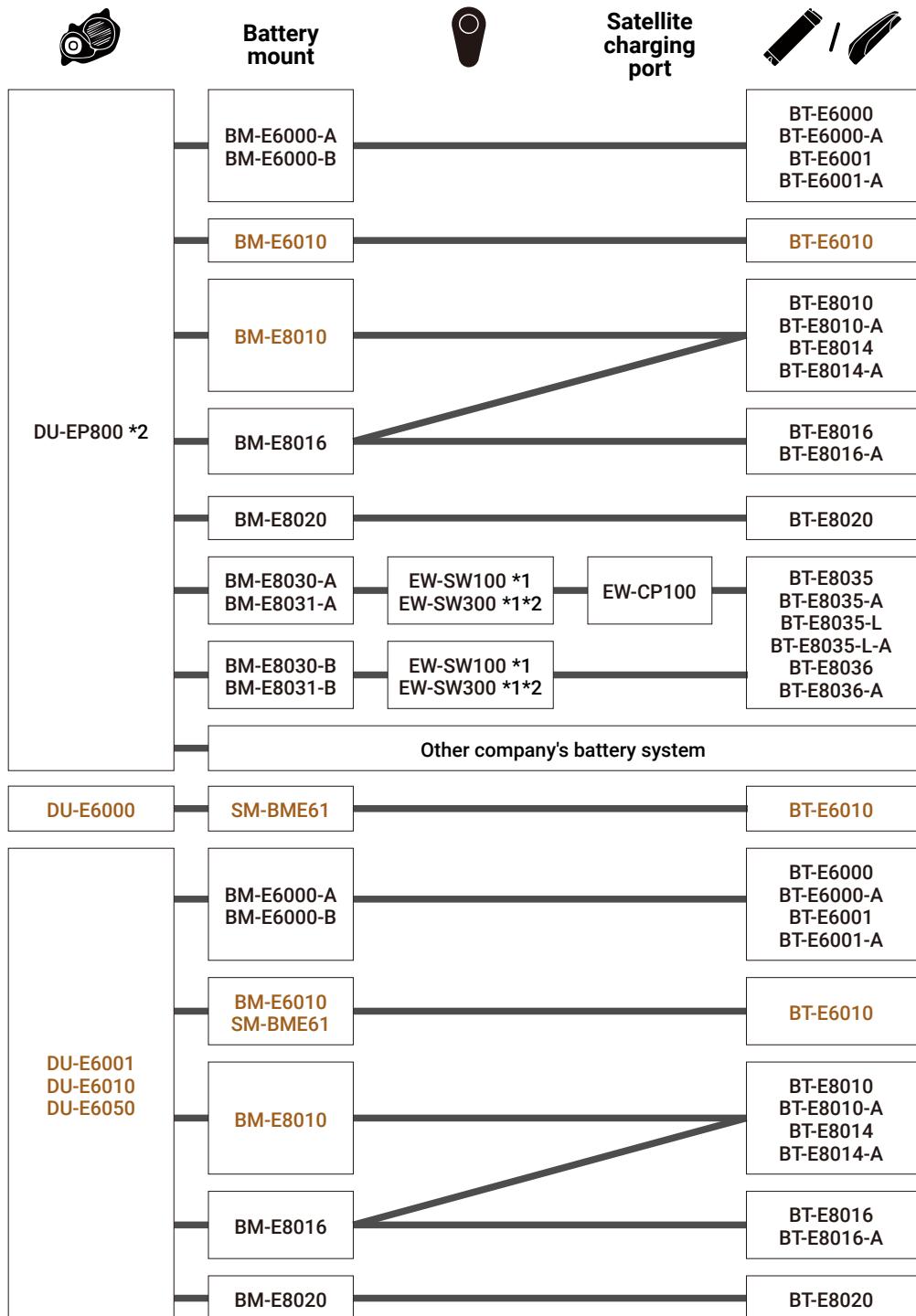


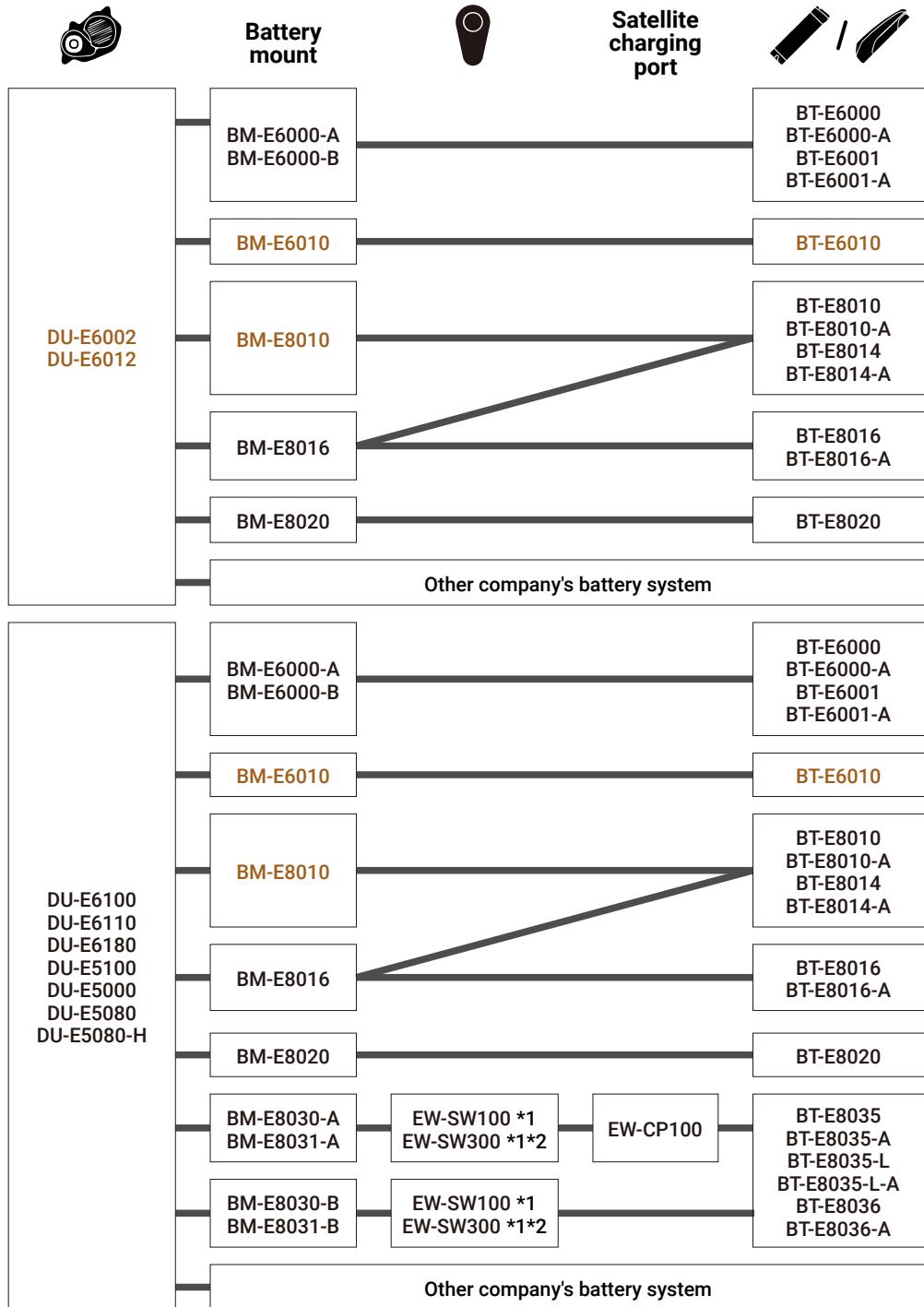
### Limitation of function

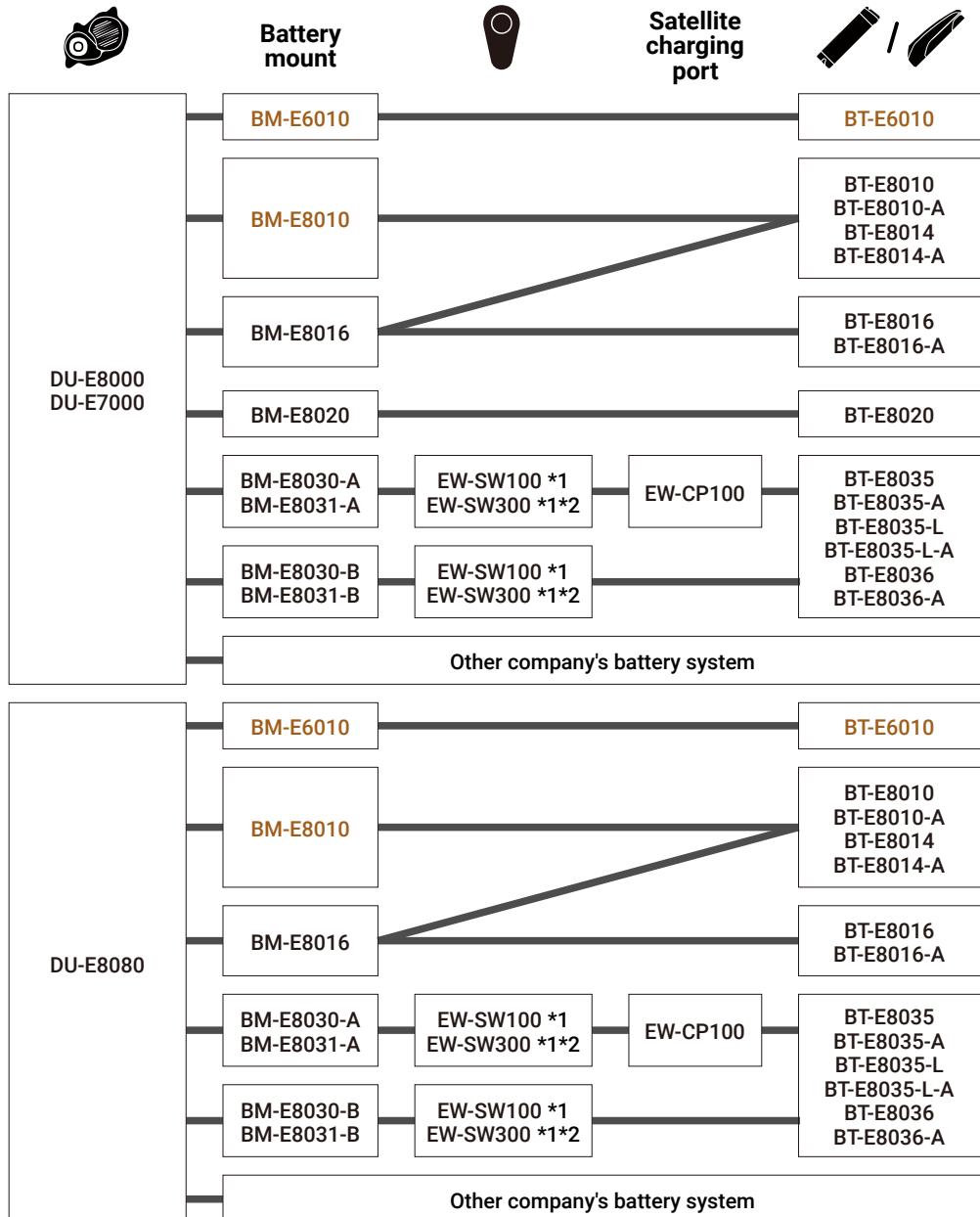
\*1 These batteries don't support over 500W drive unit power output

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

For 1st generation battery management system







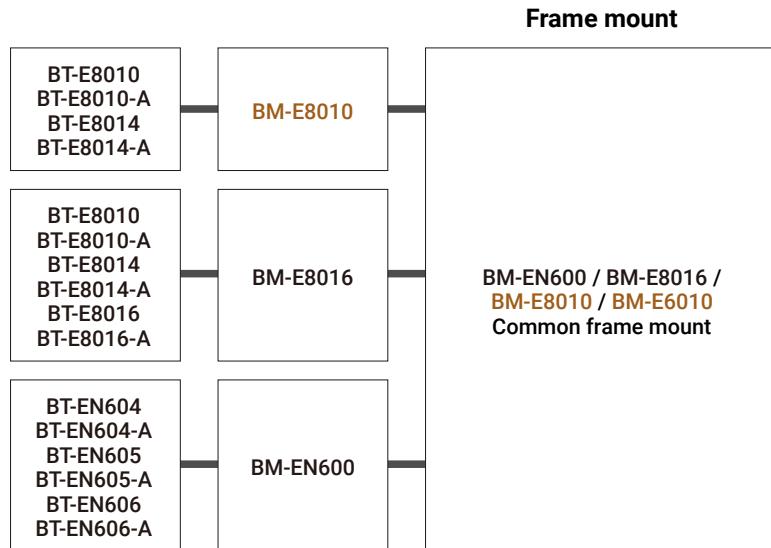
### Limitation of function

\*1 Can't use with SC-E6010

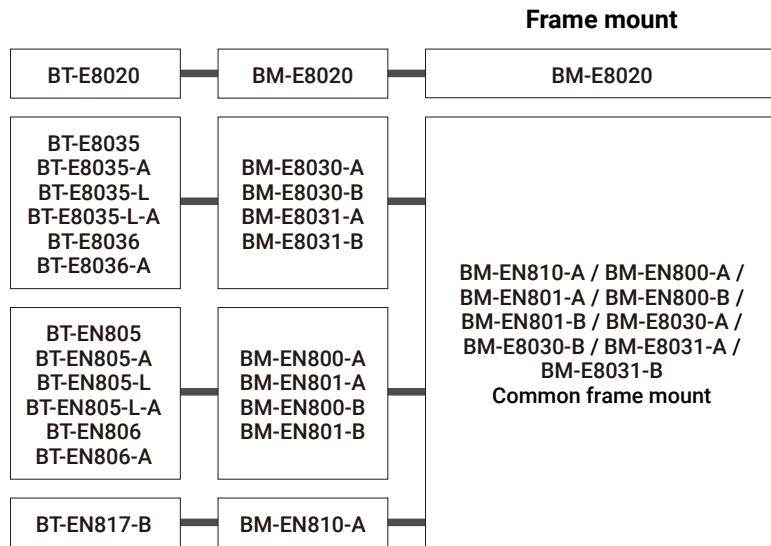
\*2 This unit has SD300 port, and needs EW-AD305 for connection to SD50 port unit.

## Frame mount compatibility

### External battery type



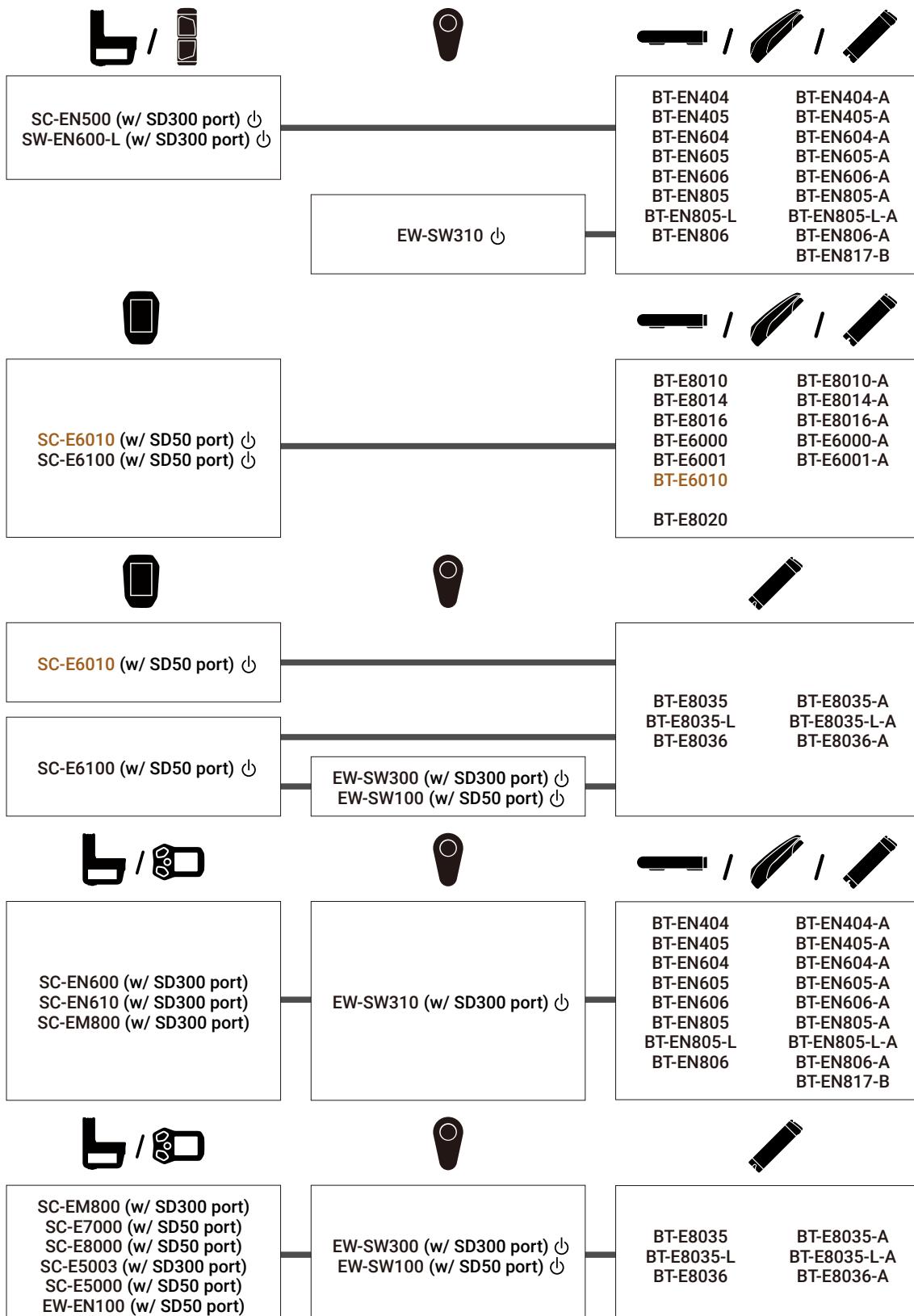
### Integrated battery type



# System on/off function compatibility

C-629

 : 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.

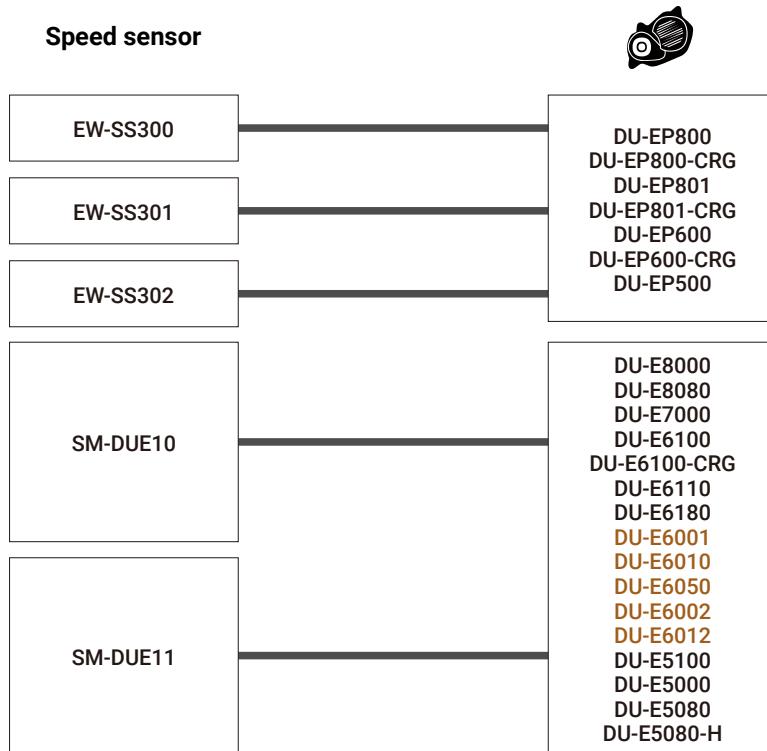
Example: OFF→ECO→TRAIL→BOOST→OFF

\*\* Function assignments to buttons can be customized.

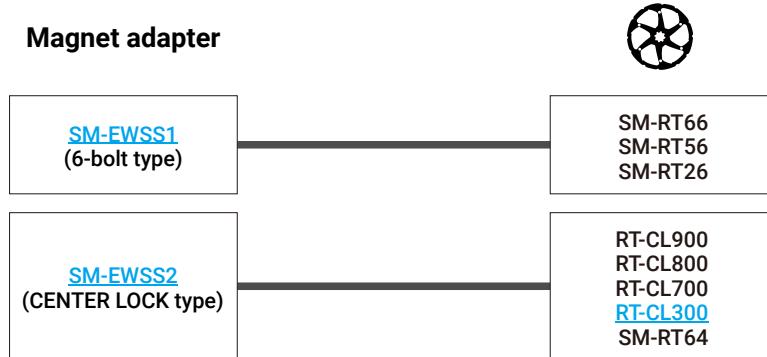
# Speed sensor compatibility

C-549

## Speed sensor and drive unit compatibility



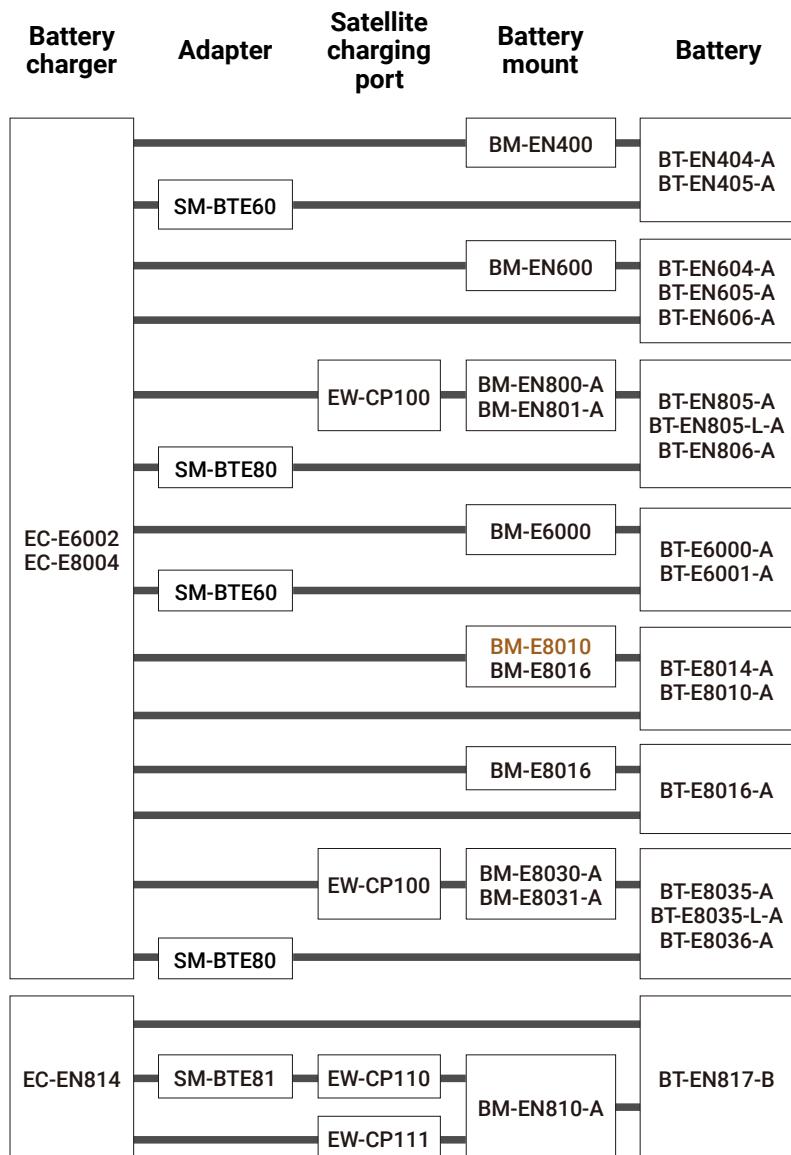
## Magnet adapter and rotor compatibility



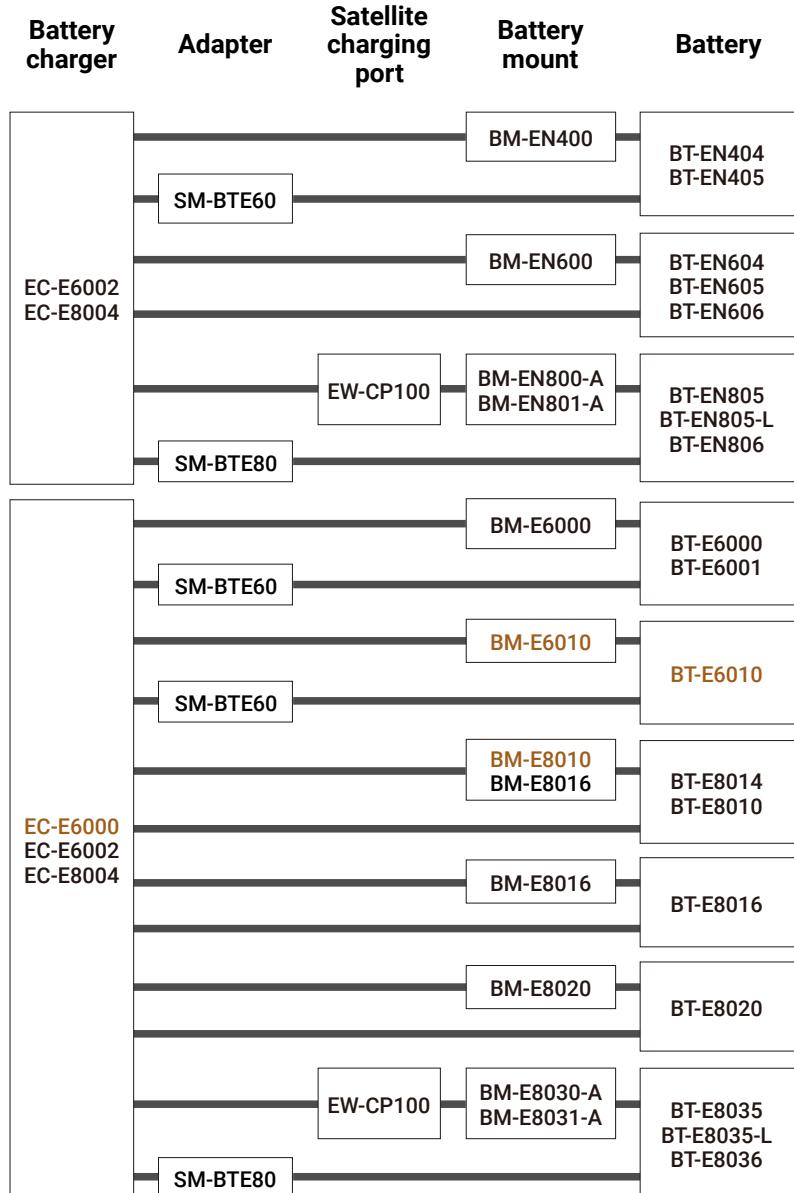
# Battery and battery charger compatibility

C-562

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

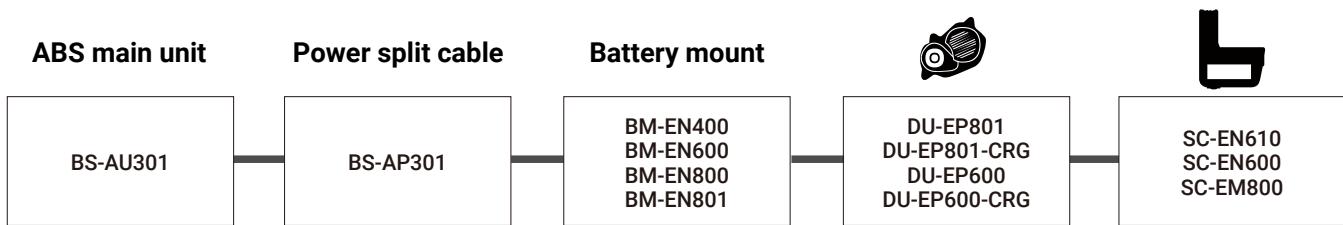


For BT-ENxxx and BT-Exxxx

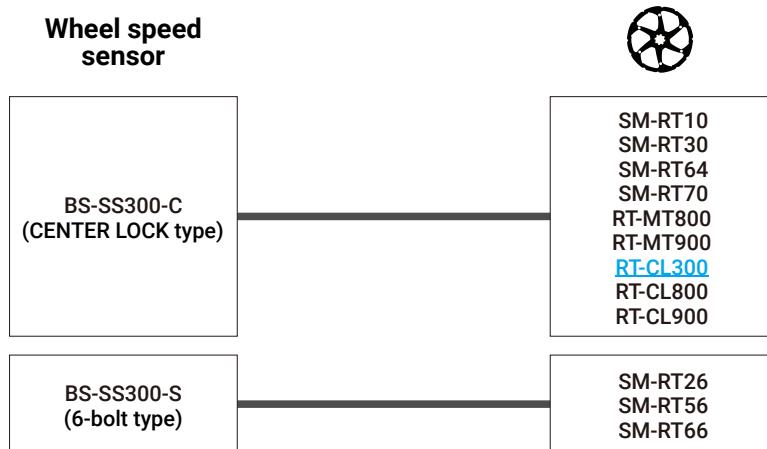


## SHIMANO ABS by Blubrake compatibility C-774

### 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	<a href="#">BL-MT200-ABS</a>	<a href="#">BL-MT402-ABS</a>	<a href="#">BL-MT402-ABS</a>
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) <a href="#">RT-CL300</a> (180, 203 mm) SM-RT30 (180, 203 mm)	SM-RT30 (203 mm) <a href="#">RT-CL300</a> (180, 203 mm) SM-RT64 (203, 220 mm)
Oil	SHIMANO MINERAL OIL	SHIMANO MINERAL OIL	SHIMANO MINERAL OIL

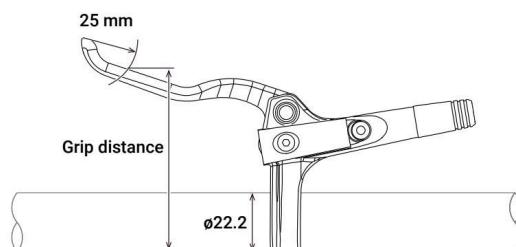
\* Please note that the brake levers compatible with BOSCH ABS has narrower adjustment range of grip distance compared to other levers, and the nominal grip distance is also wider.

## For BOSCH ABS Pro

	Group-1	Group-2
ABS mode	Trail Pro / Race / Off	Trail Pro / Race / Off
Brake lever	<a href="#">BL-M8200</a>	<a href="#">BL-M9220</a>
Brake caliper	<a href="#">BR-M8220</a> (4-piston)	<a href="#">BR-M9220</a> (4-piston)
Brake hose type	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
Front rotor (6-bolt type)	SM-RT66 (203, 220 mm)	SM-RT66 (203, 220 mm)
Front rotor (CENTER LOCK type)	RT-CL900 (203 mm) RT-CL800 (203 mm) RT-CL700 (203 mm)	RT-CL900 (203 mm) RT-CL800 (203 mm) RT-CL700 (203 mm)
Oil	SHIMANO LOW VISCOSITY OIL	SHIMANO LOW VISCOSITY OIL

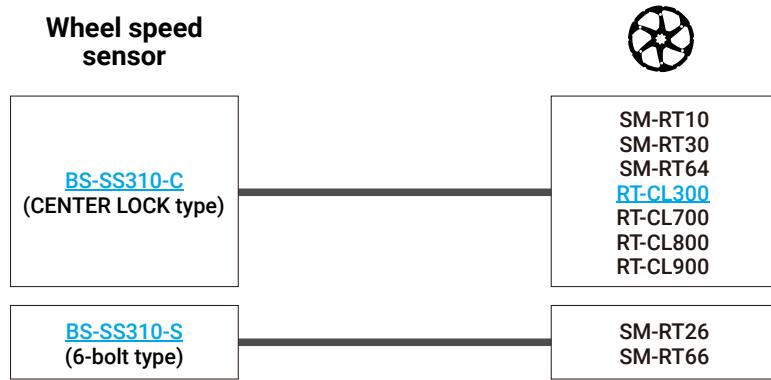
## Grip Distance

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	<a href="#">BL-M9220</a>	58	100
	<a href="#">BL-M8200</a>	58	100
ABS	<a href="#">BL-MT200-ABS</a>	83	94
	<a href="#">BL-MT402-ABS</a>	80	98

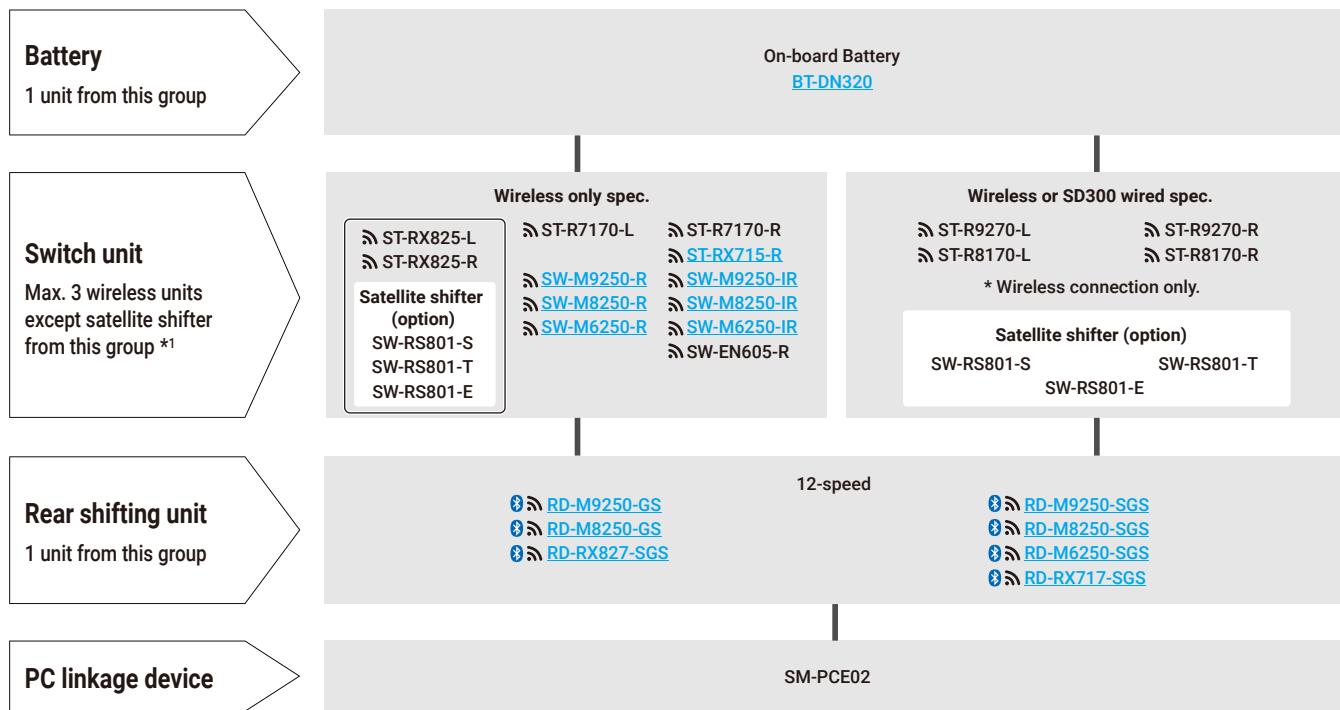
## Wheel speed sensor mount adapter and rotor compatibility



## Compatibility chart of E-TUBE PROJECT Cyclist/Professional v5.4.4

Di2 with [BT-DN320](#)

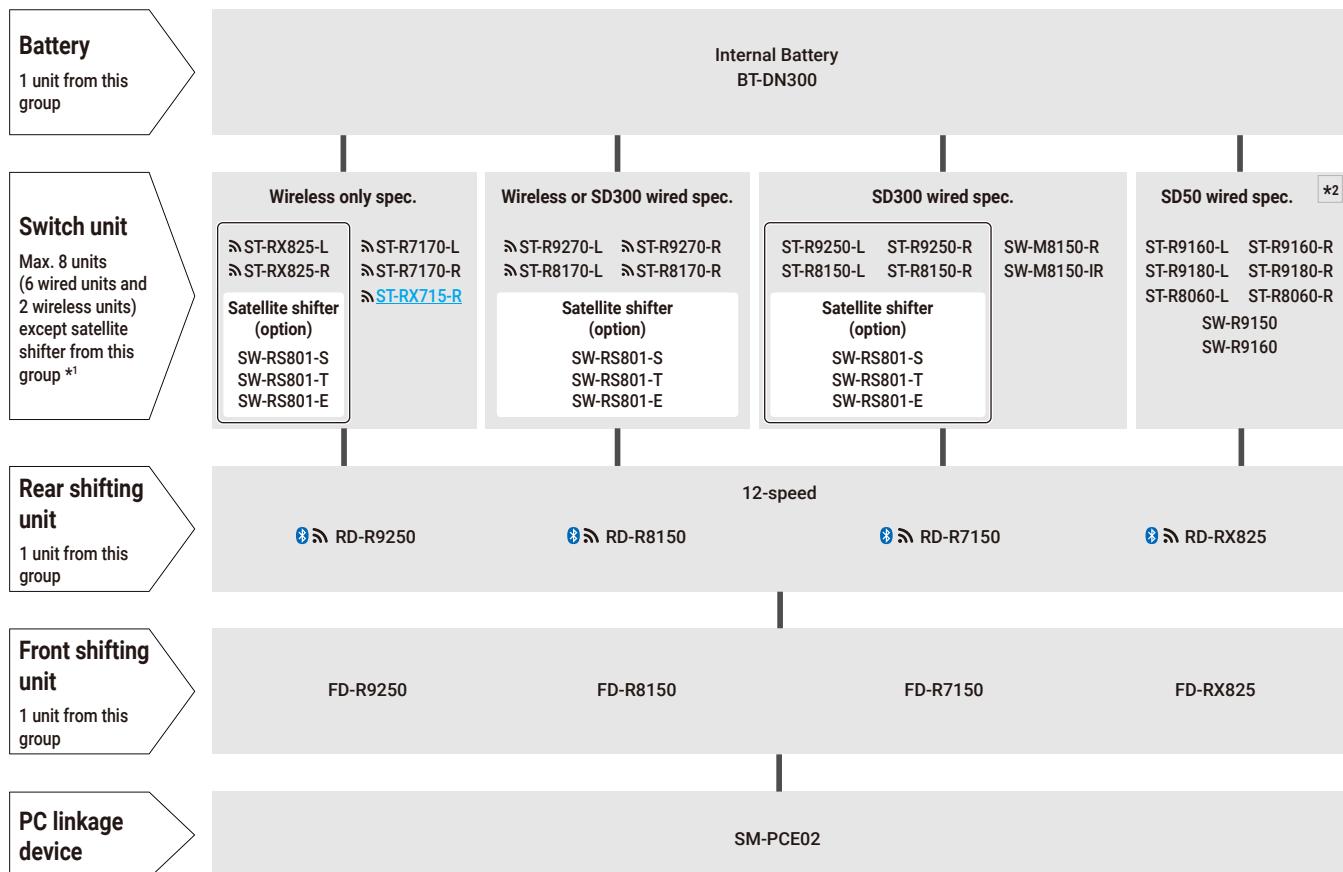
C-473



### Limitation of function with [BT-DN320](#)

- \*1 The number of connectable wireless units 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

## Di2 with BT-DN300

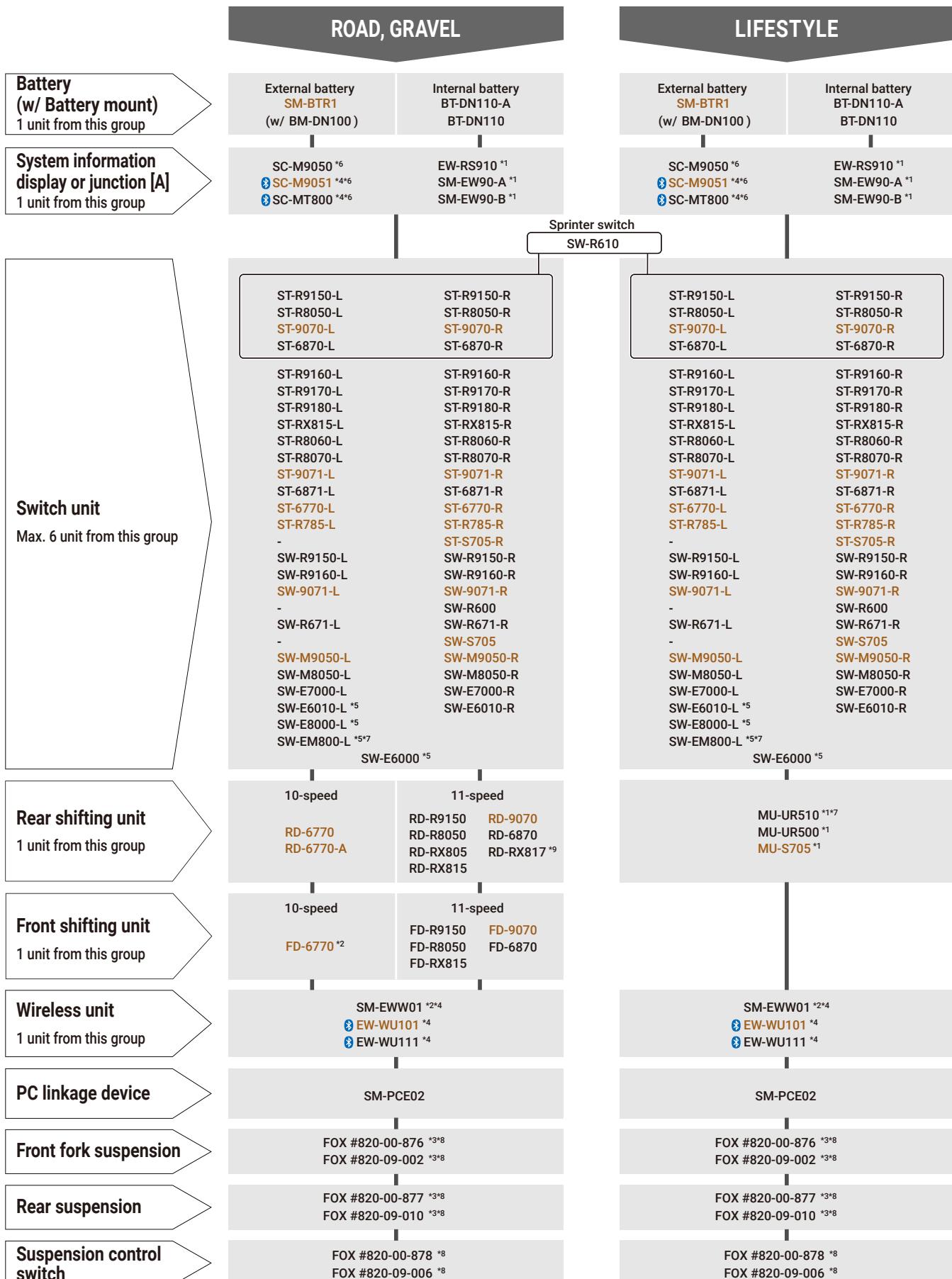


### Limitation of function with BT-DN300

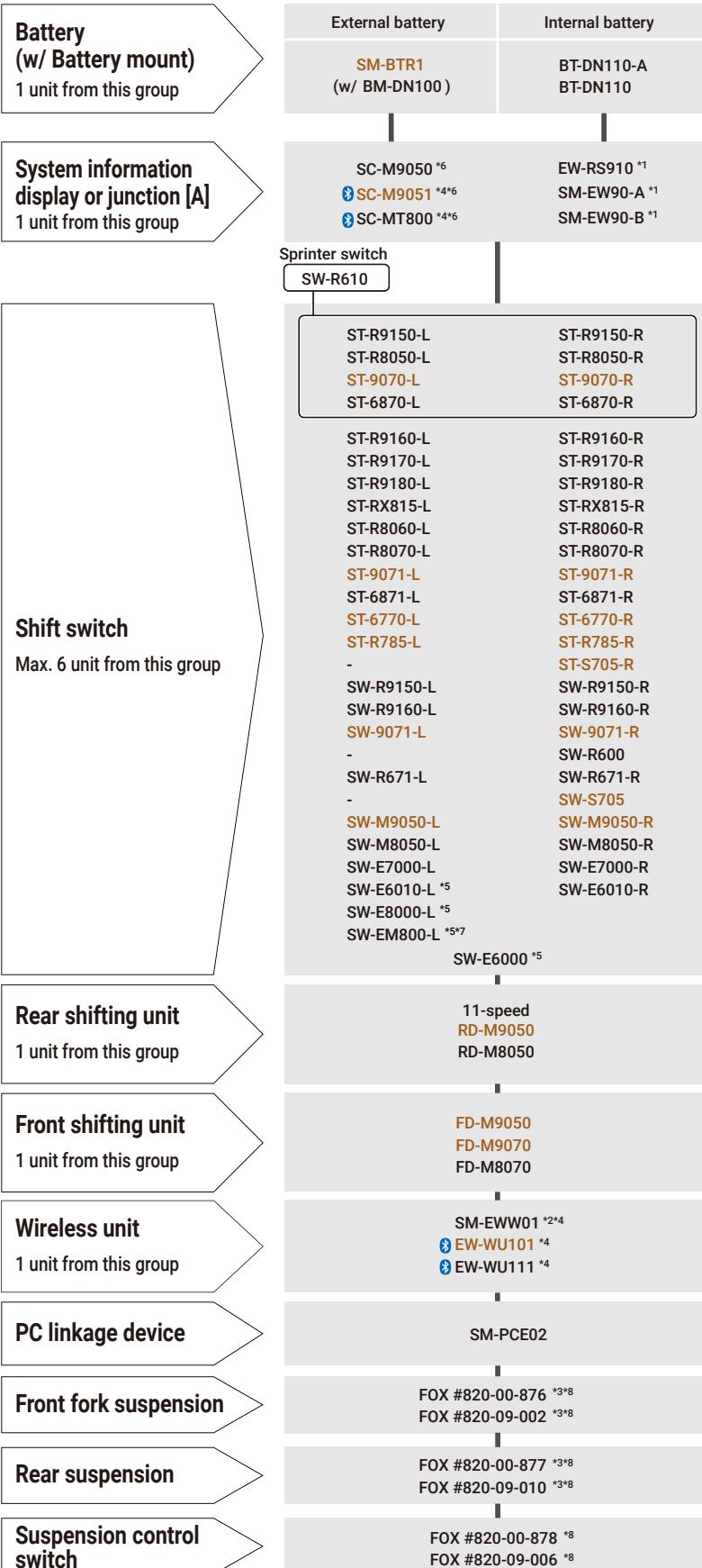
- \*1 The number of connectable wireless units is limited as follows:
  - DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
- \*2 EW-AD305 is needed.

## 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



# MTB

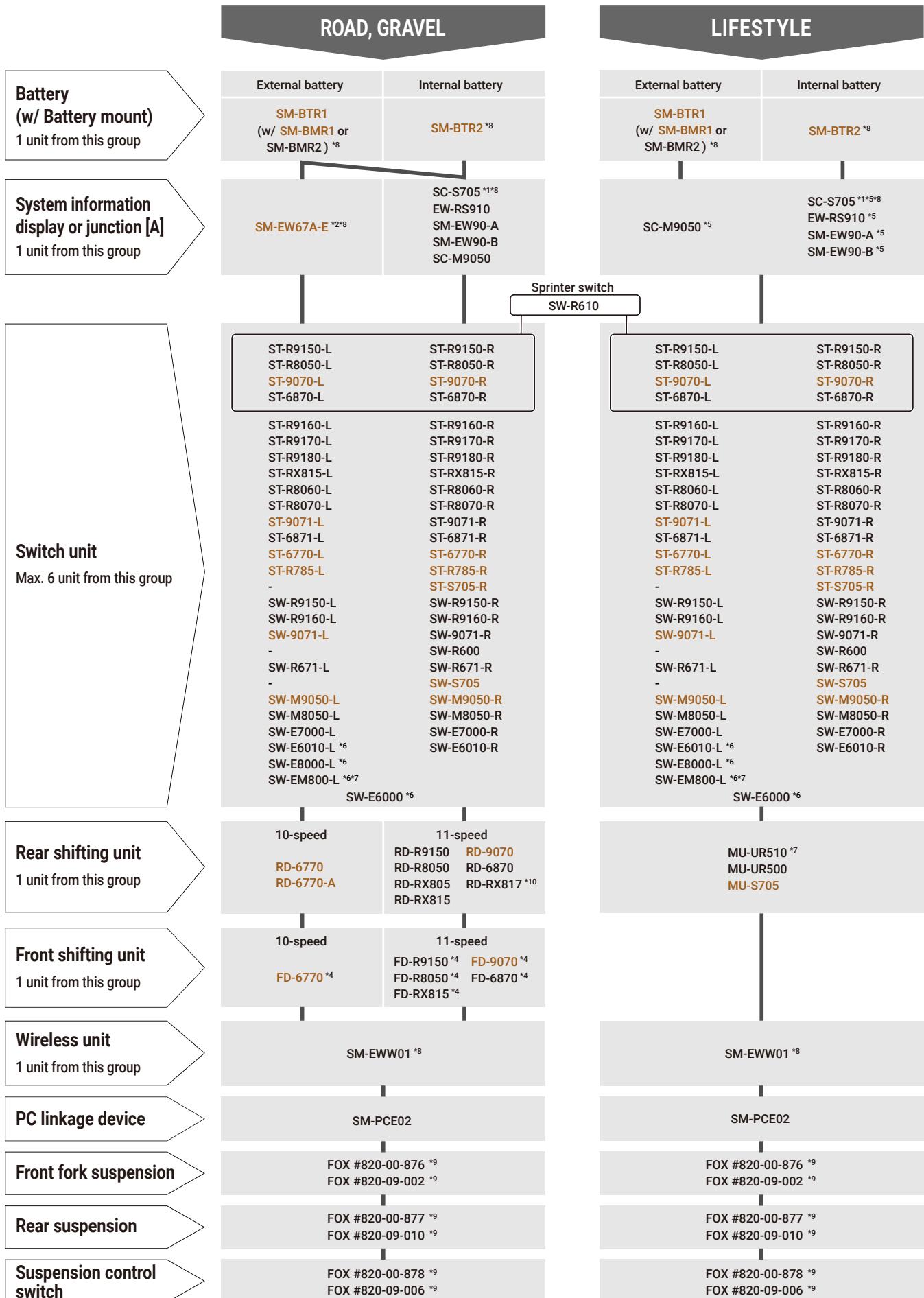


## Limitation of function with BM-DN100 / BT-DN110

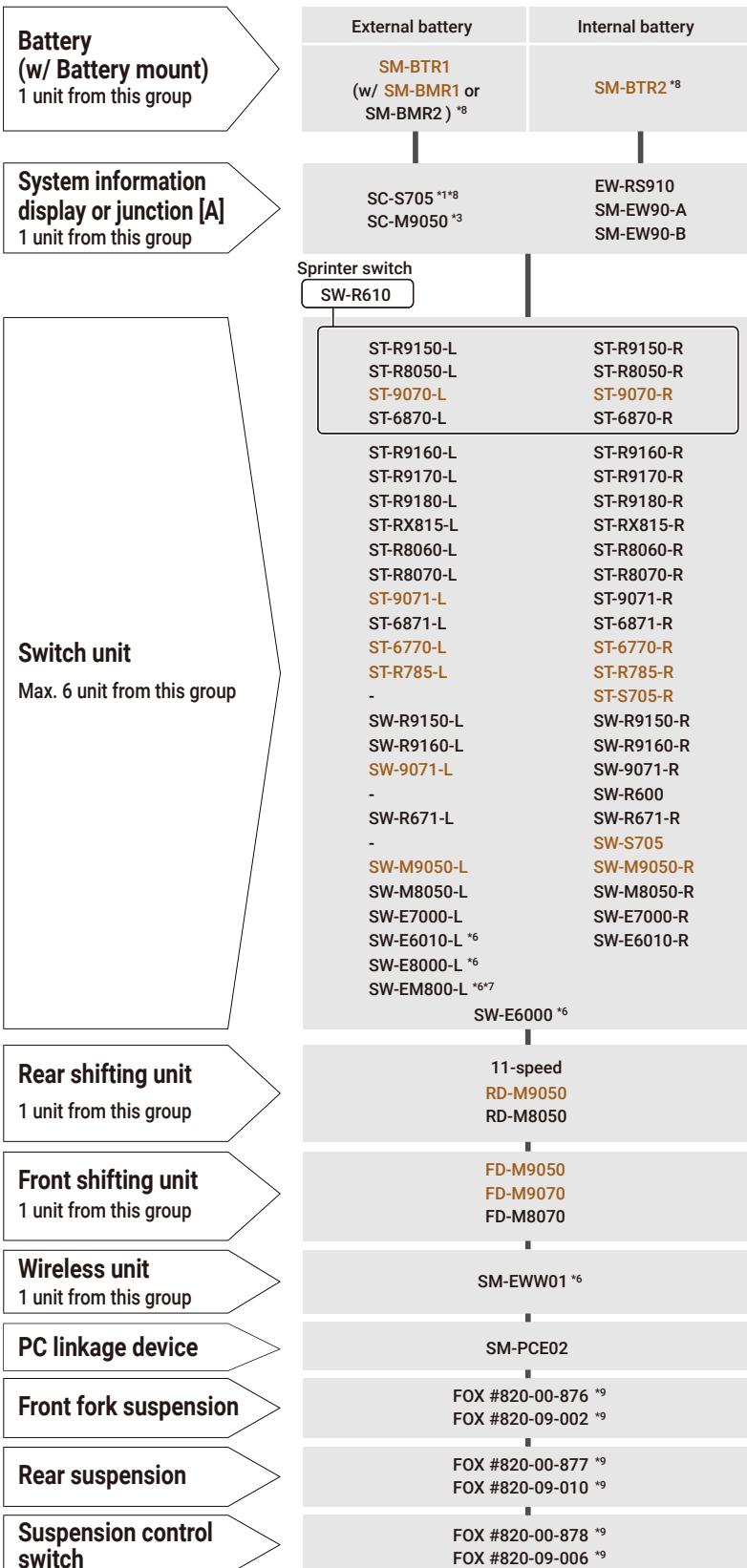
- \*1 Shifting adjustment mode for MU-S705, MU-UR500 and MU-UR510 is not supported (need E-TUBE PROJECT to adjust)
- \*2 Not supported by E-TUBE PROJECT Cyclist
- \*3 A designated control switch and/or the combination SW-M9050/SW-M8050-L with SC-M9050/**SC-M9051**/SC-MT800 is required to operate
- \*4 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.

## Di2 with SM-BMR1 / SM-BMR2 / SM-BTR2

SM-BTR1 is not displayed on E-TUBE PROJECT (SM-BMR1 or SM-BMR2 is displayed)



# MTB



## 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

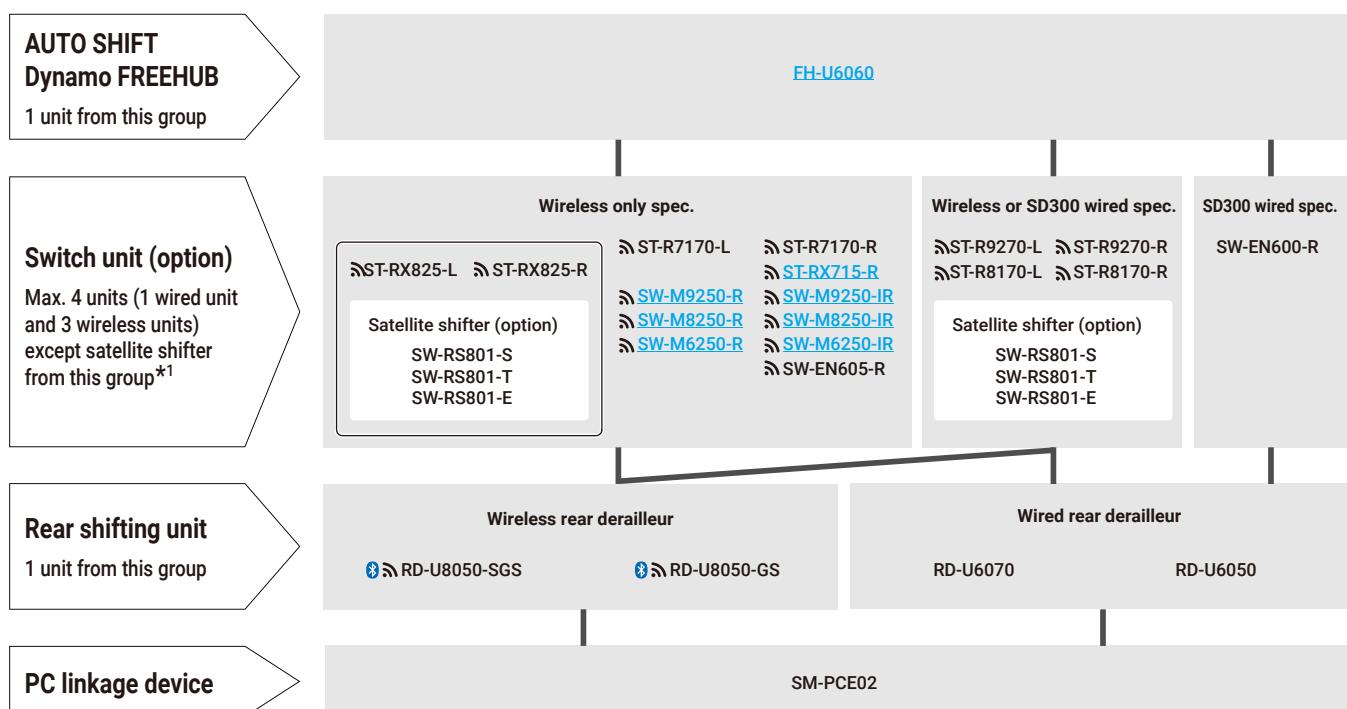
\*7 This unit has SD300 port, and needs EW-AD305 for connection with SD50 port unit

\*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.

## Di2 with FH-U6060



## Limitation of function with FH-U6060

\*1 The number of connectable wireless units is limited as follows:

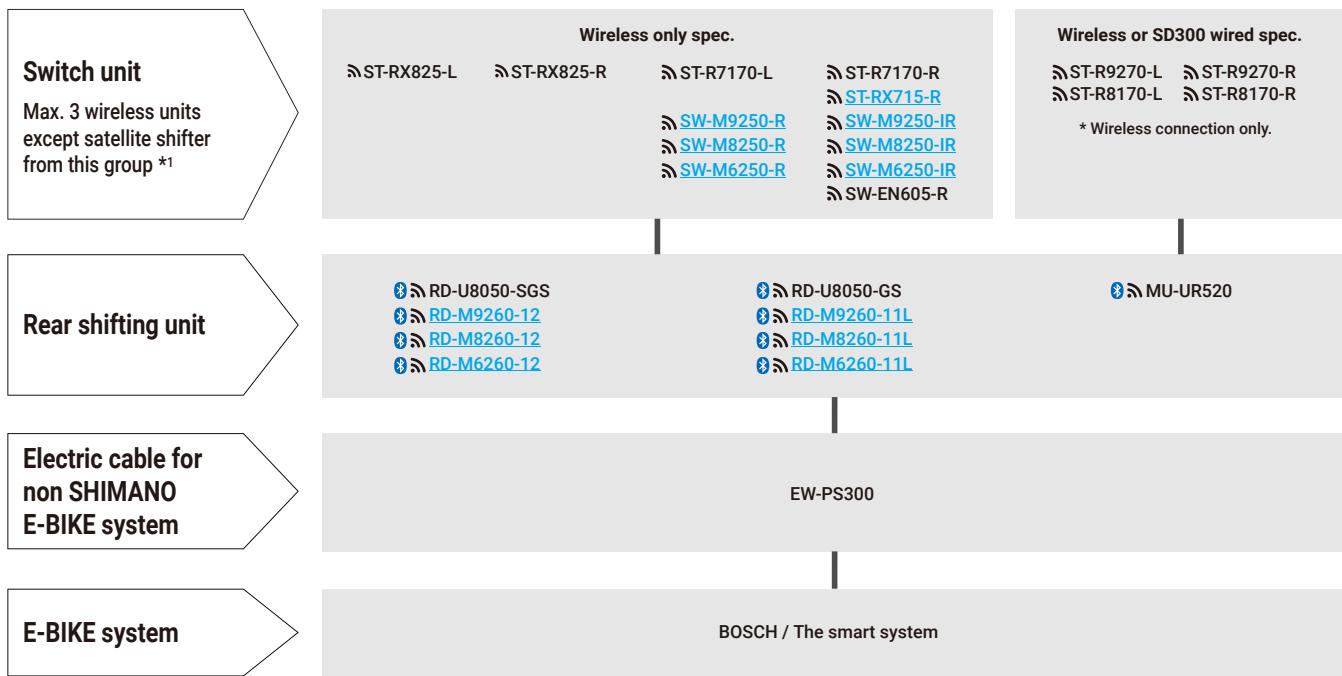
- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
- Switch unit: maximum of one SW-R/IR

# Di2 compatibility for 3rd party E-BIKE system

C-429

## Compatibility chart of E-TUBE PROJECT Cyclist/Professional v5.4.4

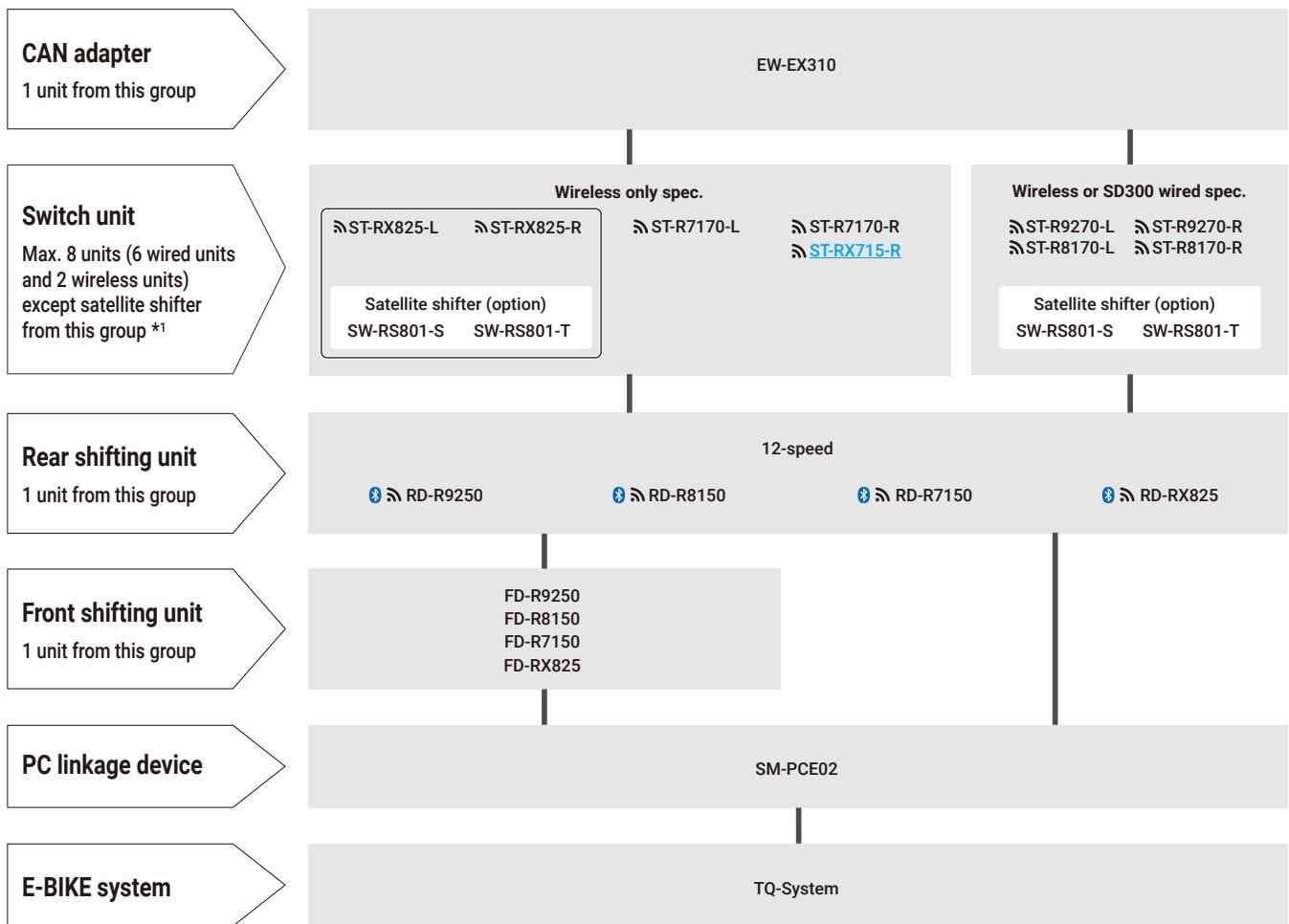
### Di2 with EW-PS300



### Limitation of function

- \*1 The number of connectable wireless units 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

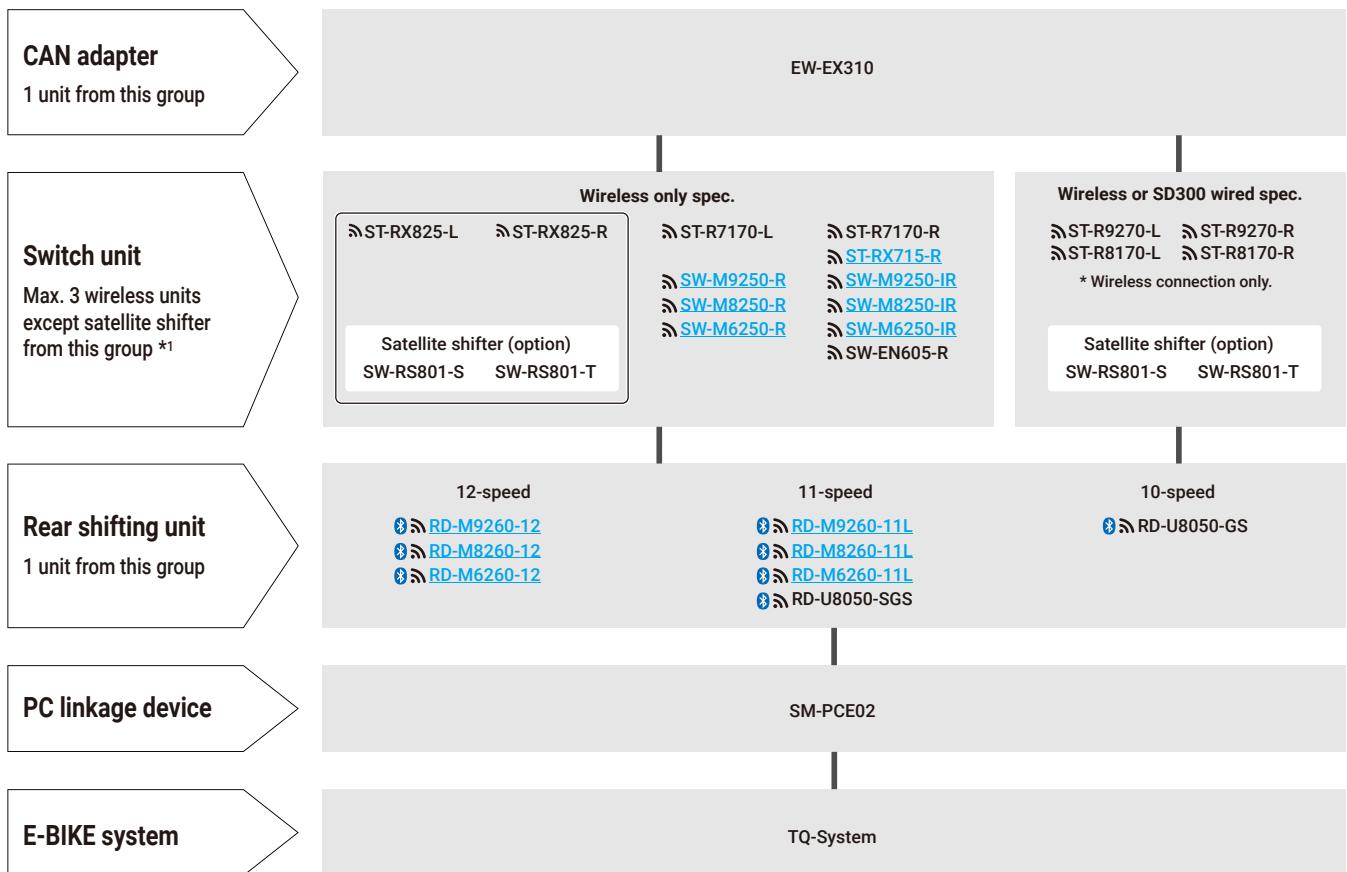
## Di2 with EW-EX310 for ROAD/GRAVEL 12-speed (front derailleur compatible)



### Limitation of function

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

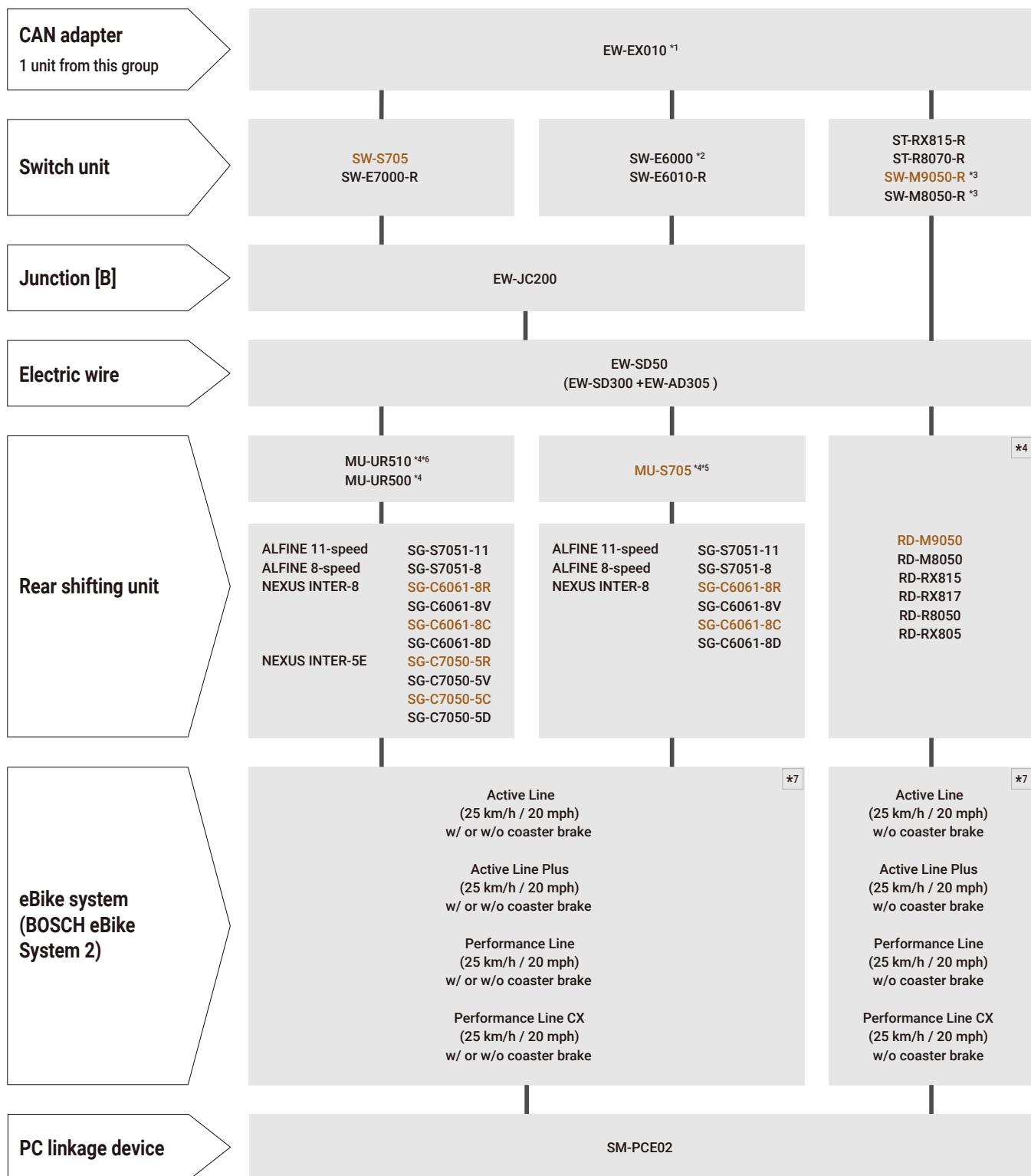
## Di2 with EW-EX310 for MTB/GRAVEL 12/11-speed, LIFESTYLE 11/10-speed



### Limitation of function

- \*<sup>1</sup> The number of connectable wireless units 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

## 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)".

## Compatibility between Bracket and ID/SC

C-548

