

ARCHIVE

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SHIMANO

2020-2021

Products compatibility Information

Compatibilities are subject to change without prior

Visit SHIMANO PRODUCT WEBSITE for the latest information.

Word definitions

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

Compatibility

Drivetrain for MTB components C-432

Rear drivetrain compatibility [MTB]

C-433 C-434 C-558 C-435 C-436 C-437 C-438 C-439
C-546

Front drivetrain compatibility [MTB]

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Front derailleur and crankset

C-447

Front derailleur and chain line (TOURNEY)

C-448

Crankset, bottom bracket and chain line [MTB]

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

Rear drivetrain compatibility

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Front drivetrain compatibility

C-455

Brake systems compatibility [ROAD]

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Hydraulic systems compatibility [ROAD, Gravel/Adventure]

C-499

Hydraulic systems compatibility [URBAN (METREA)]

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I-SPEC C-156

Compatibility of I-SPEC shifter and brake lever

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Disc brake C-460

Disc brake caliper and disc brake rotor compatibility

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Compatibility between brake systems (MT400 series)

C-606

Combination chart (Mechanical Disc)

C-462 C-463 C-464

Compatibility between hydraulic disc brake hose

C-186

Compatibility between banjo bolt

C-625

Brake pad line-up

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Disc brake mount adapter

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Cable System C-605

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

C-306

V-BRAKE and Hub roller brake C-465

Compatibility between brake systems

C-466

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11-speed FREEHUB compatibility

C-253

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

C-254 C-255 C-256
C-257 C-258 C-259

URBAN (ALFINE, NEXUS) components C-470

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

C-471

Single gear 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

C-299

ROAD, URBAN (METREA)

C-300

Spoke protector for Road

C-302

E-BIKE compatibility chart C-431

E-BIKE system (with E-TUBE PROJECT ver.4.0.2)	C-525
Drivetrain compatibility	C-488
Switch unit / cycle computer and brake lever compatibility	C-421
Battery and battery mount compatibility	C-511
System on/off function compatibility	C-629
Speed sensor and drive unit compatibility	C-549
Battery and battery charger compatibility	C-562

Electronic Product Information C-472

E-TUBE compatibility chart with E-TUBE PROJECT ver.4.0.2	C-473
DI2 adapter compatibility	C-429

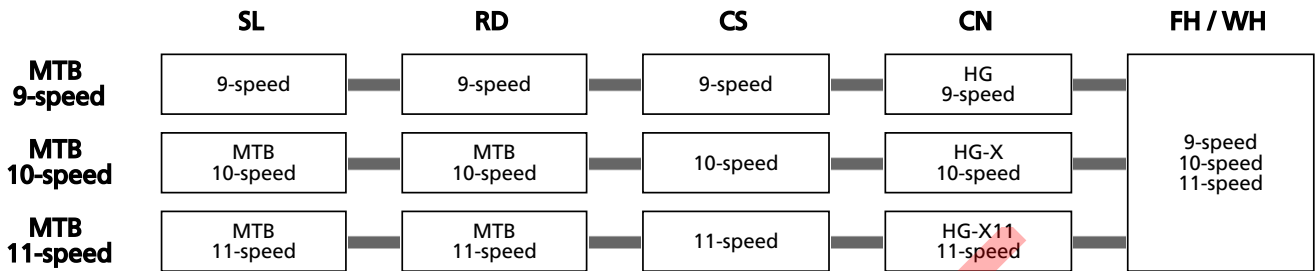
CI-DECK C-547

Compatibility between Bracket and ID/SC	C-548
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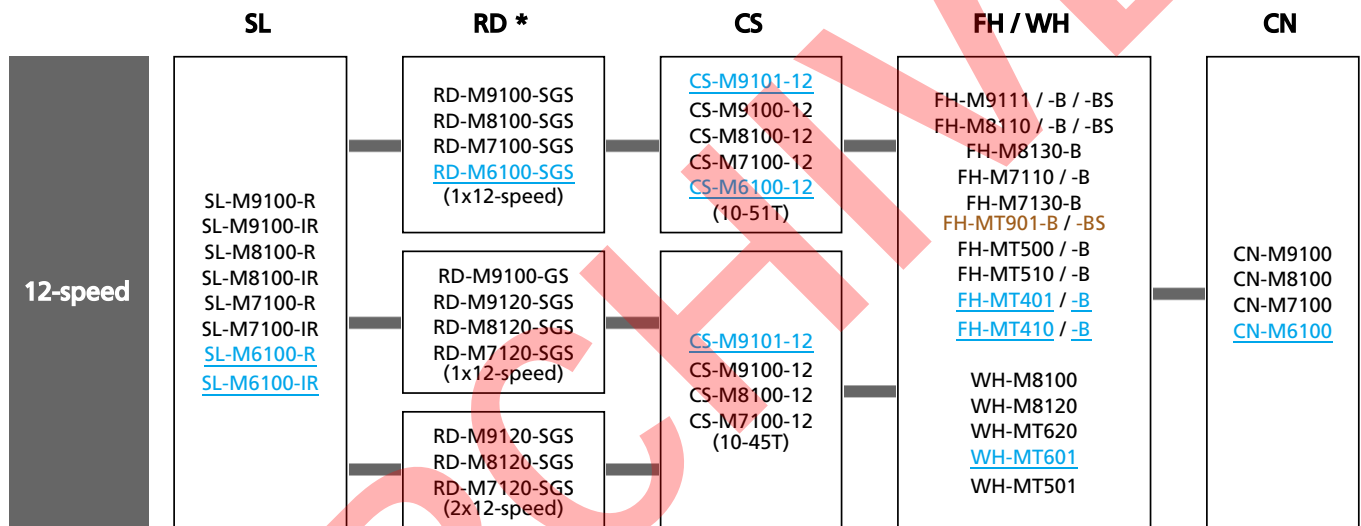
Rear drivetrain compatibility [MTB]

C-433

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

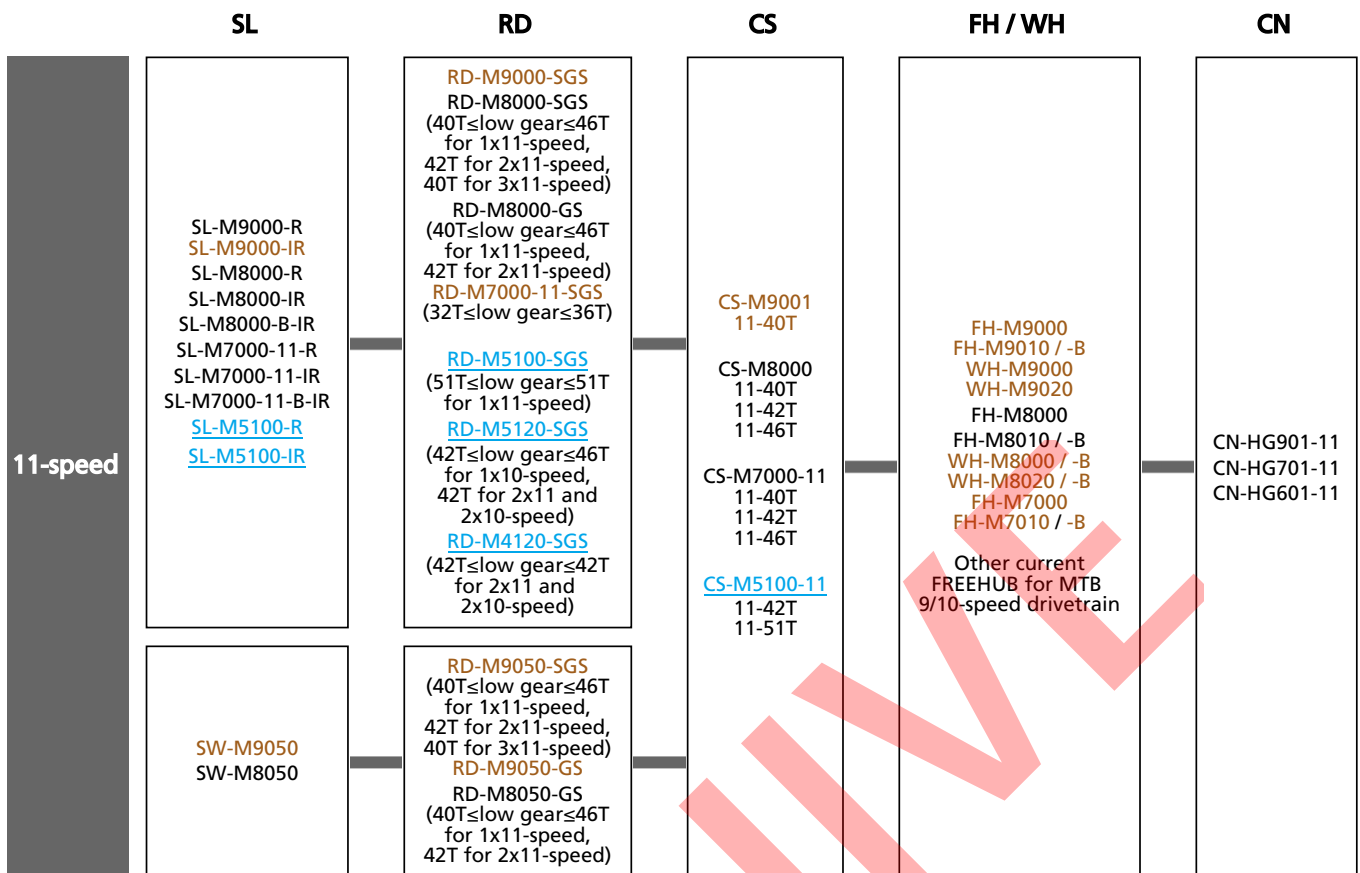


12-speed rear drivetrain (MICRO SPLINE) [MTB] C-558

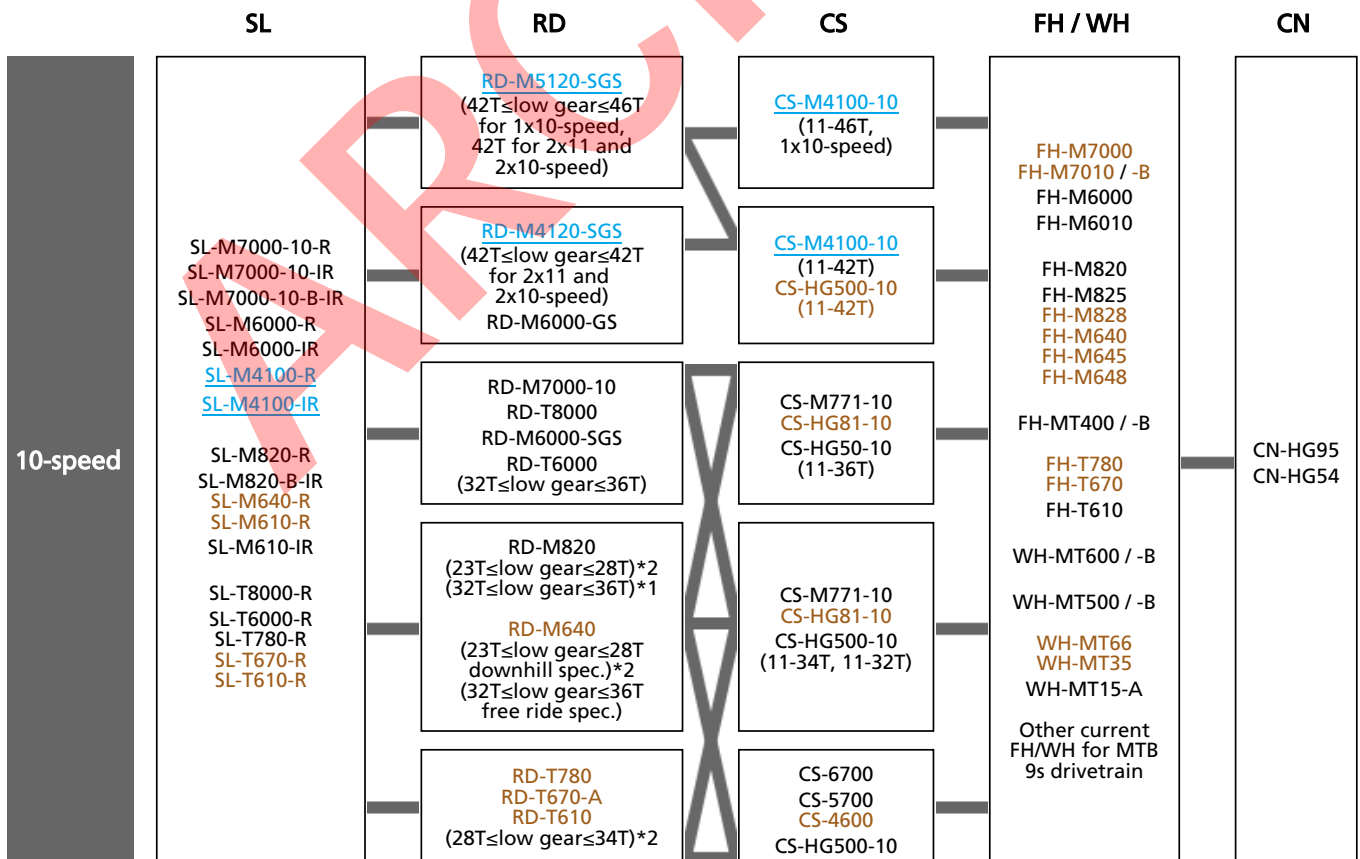


* Method to adjust the end adjustment screw is different from conventional rear derailleurs. For details, refer to dealer's manual.

11-speed rear drivetrain [MTB] C-435



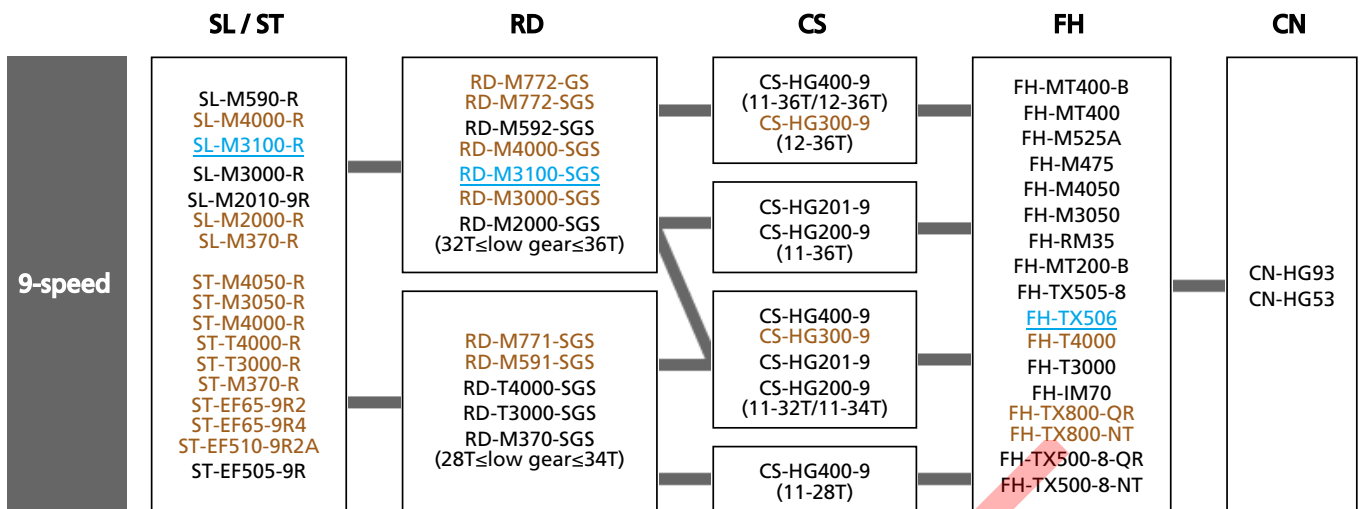
10-speed rear drivetrain [MTB] C-436



*1 Mode converter

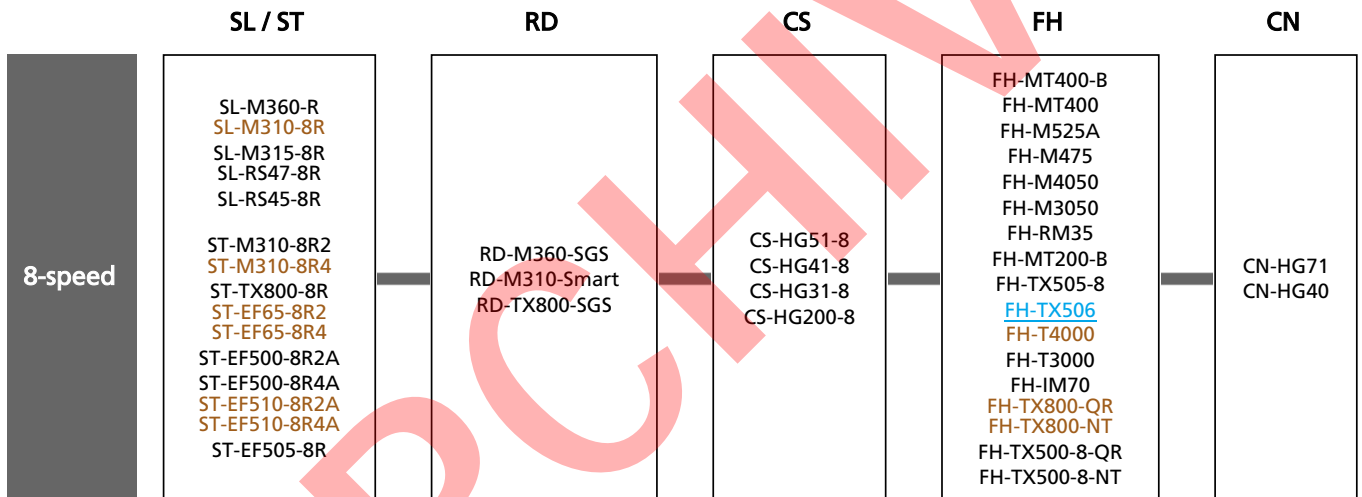
*2 Compatible with road Cassette sprocket

9-speed rear drivetrain [MTB] C-437

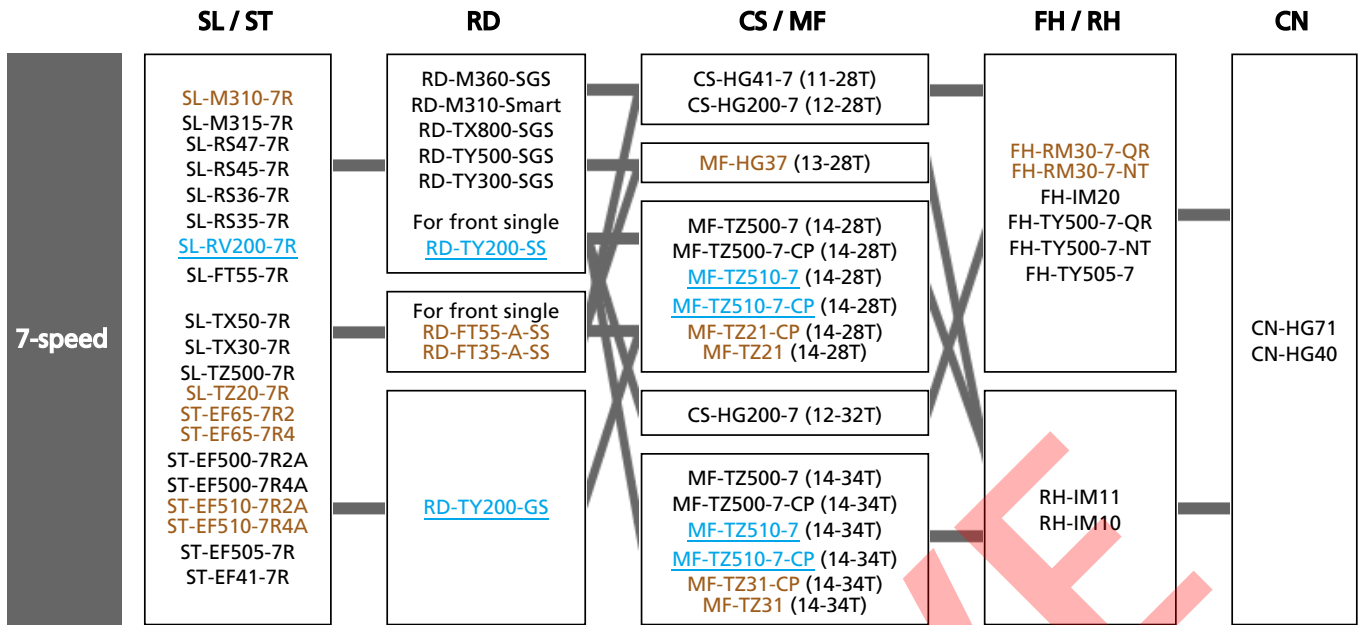


8-speed HG [MTB] C-438

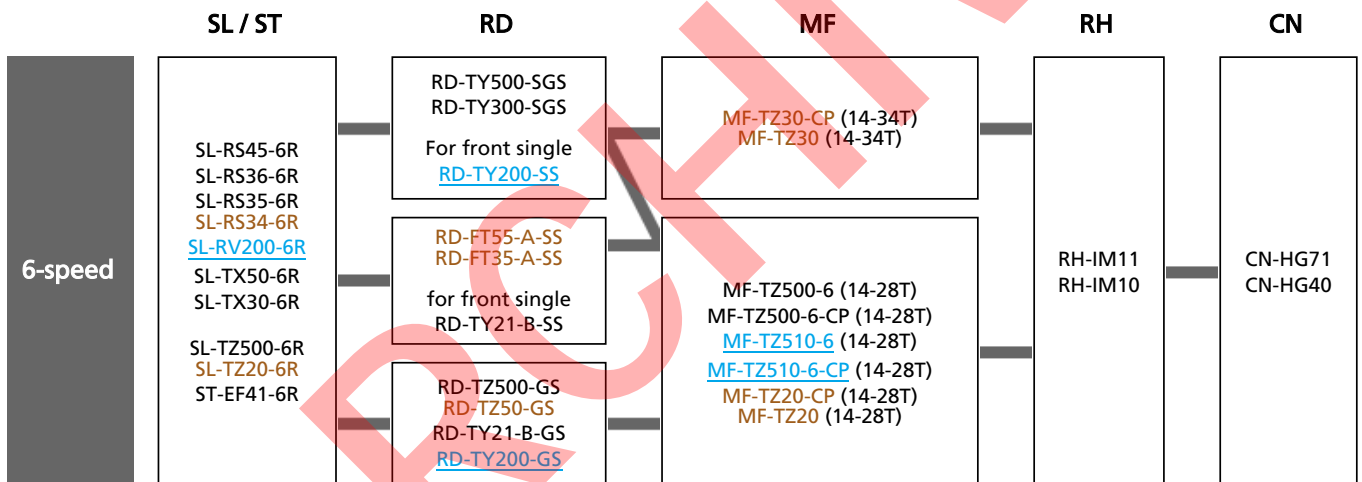
The rear derailleur for 8-speed can also be used for 7-speed drivetrain.



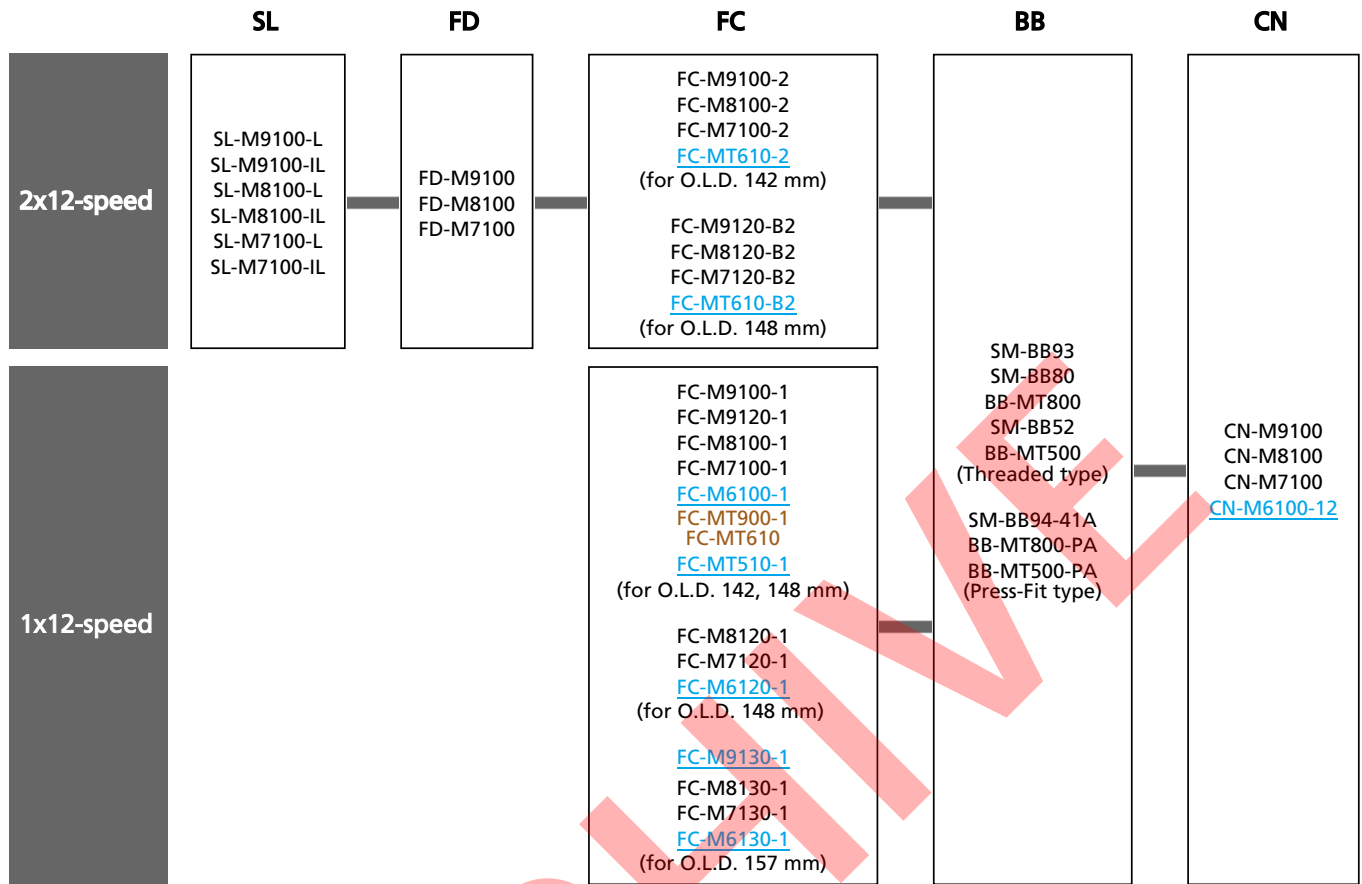
7-speed HG [MTB] C-439



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

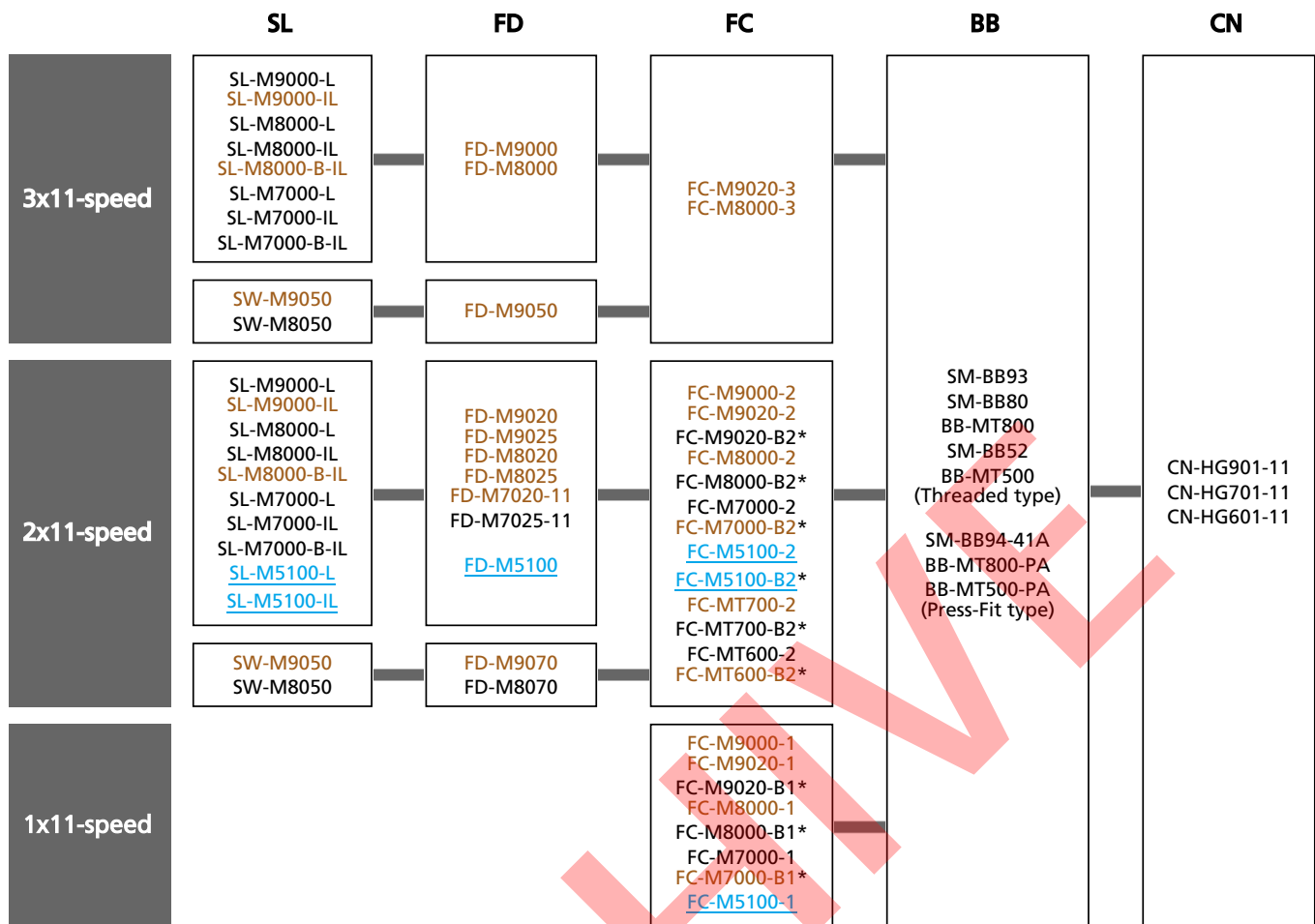


12-speed front drivetrain C-559



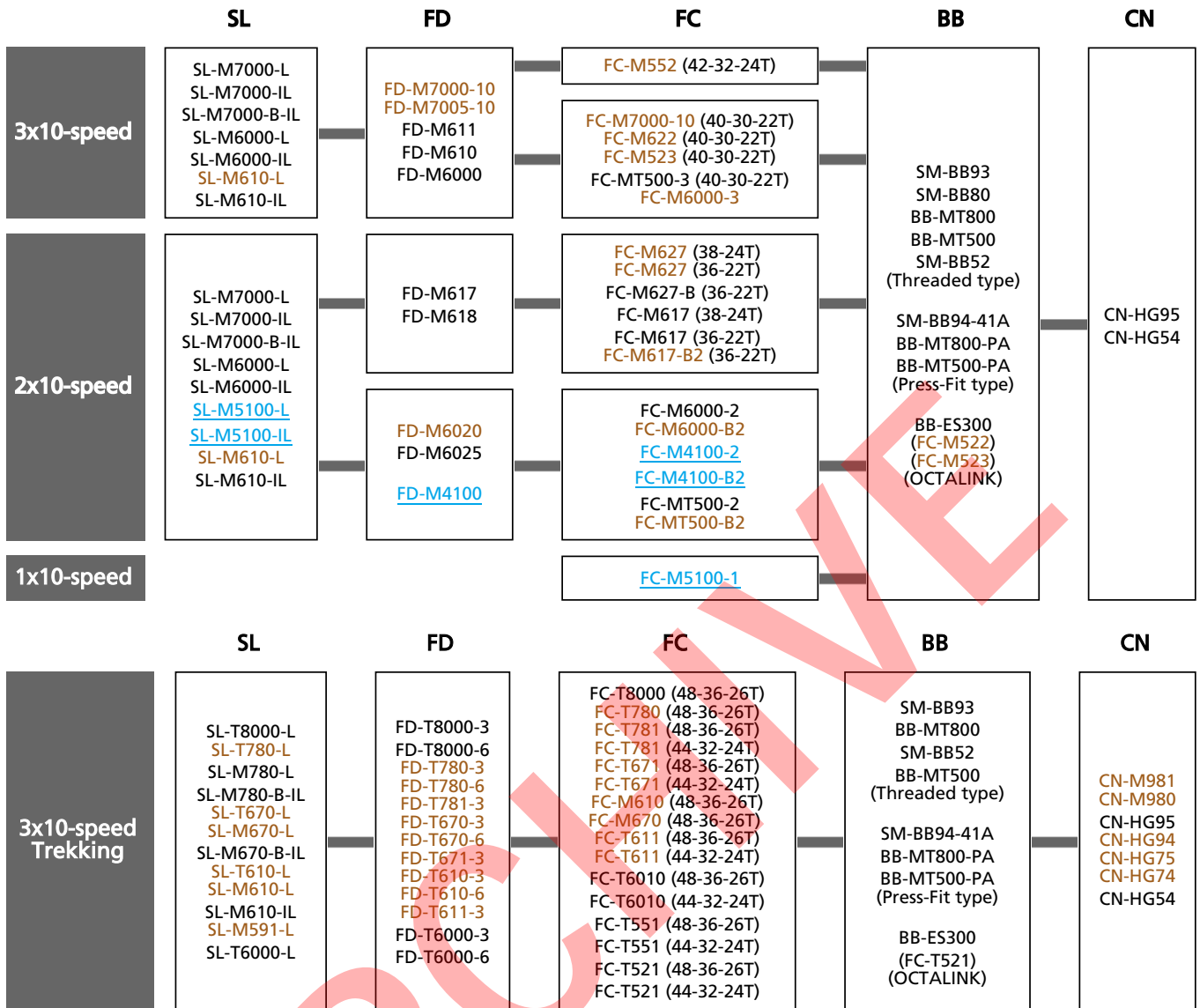
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11-speed front drivetrain C-441

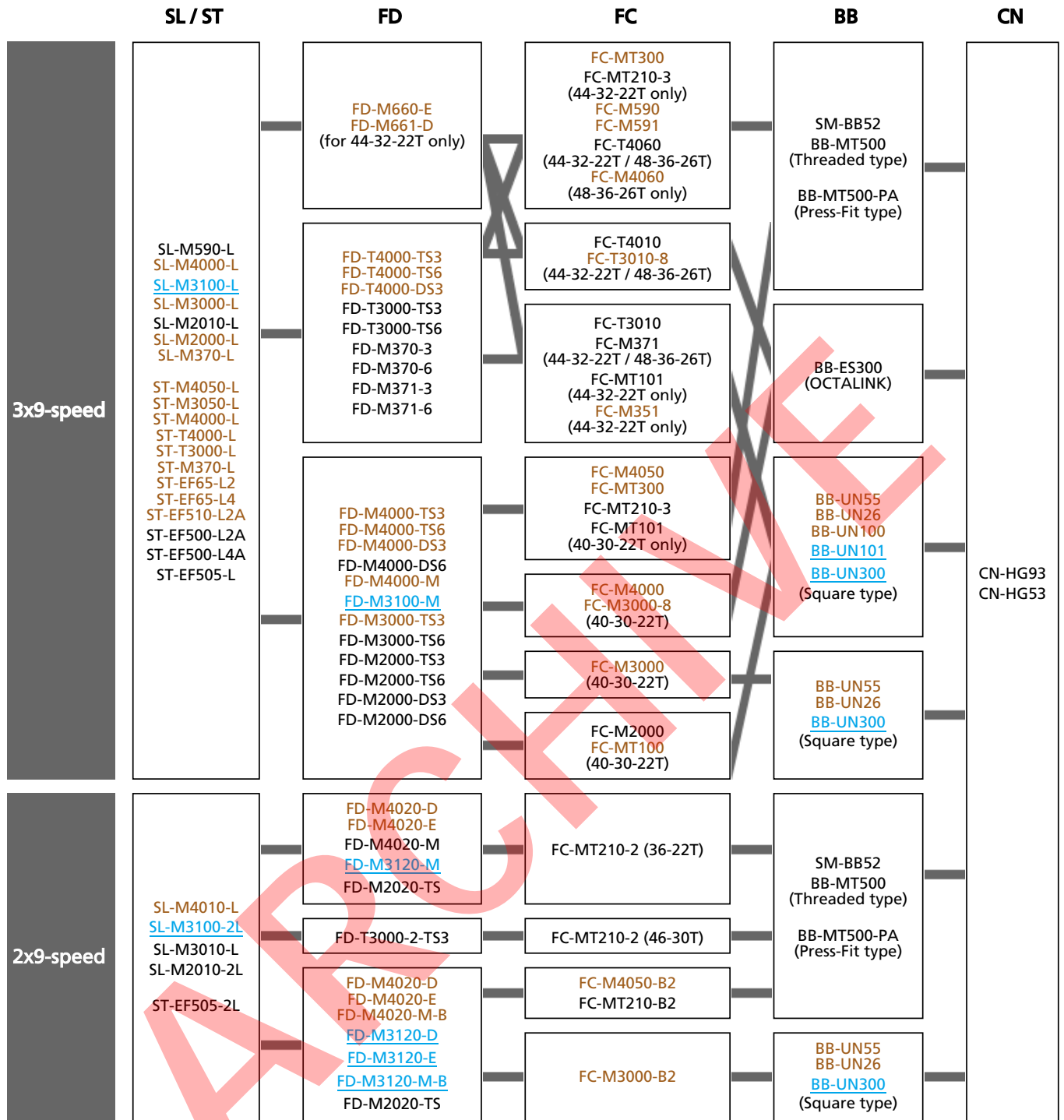


NOTE
 * It also requires new dimension of frame which cassette position is 3 mm outboard

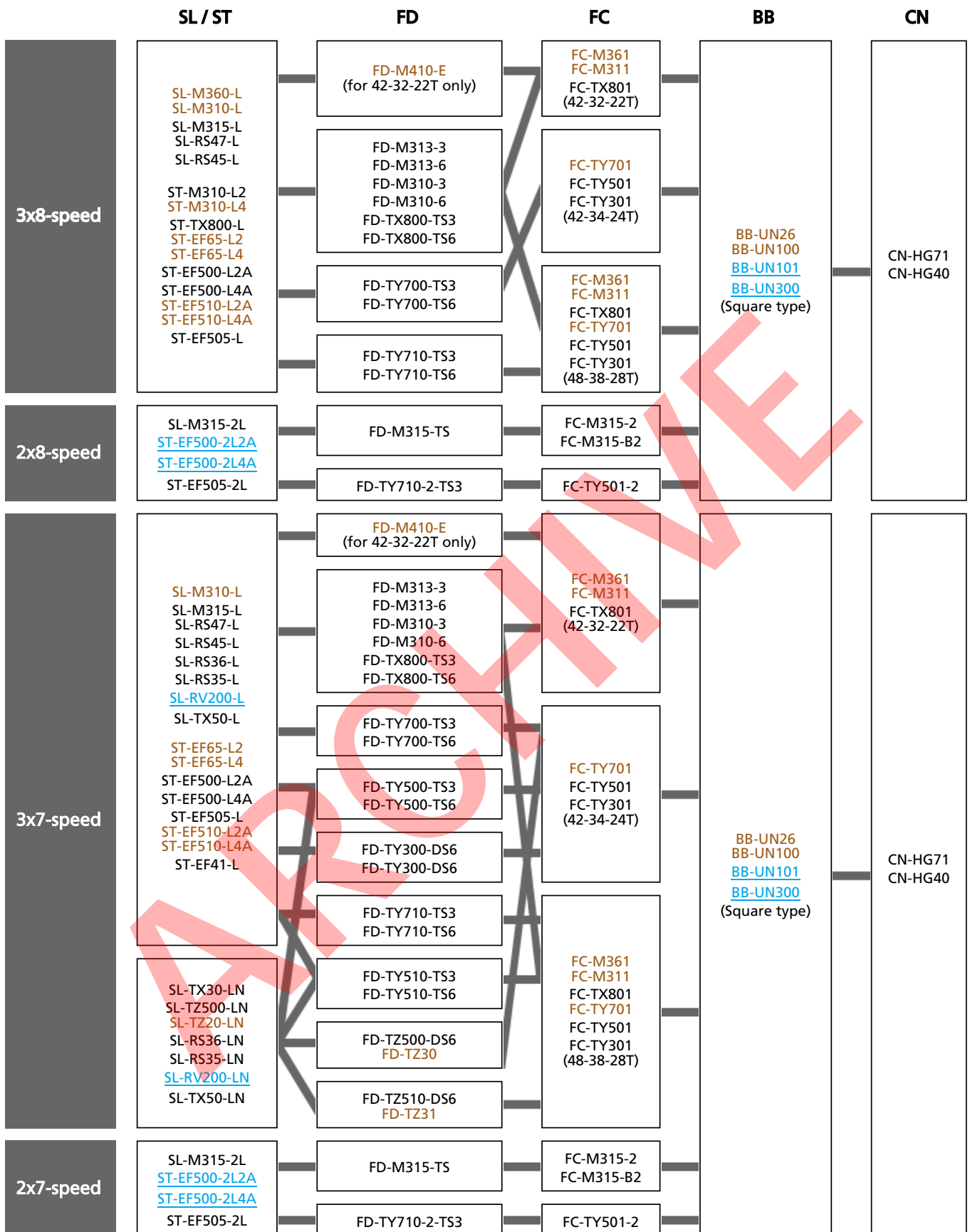
10-speed front drivetrain [MTB] C-442

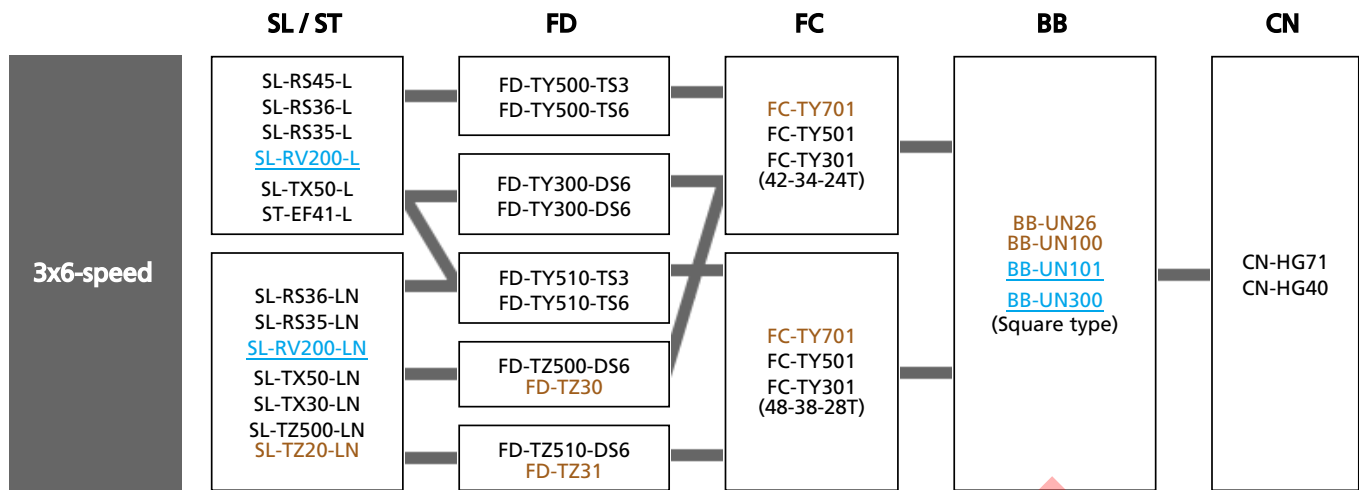


9-speed FC-FD compatibility [MTB] C-445



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





Front derailleur and crankset

C-447

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

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

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

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

Front derailleur and chain line (TOURNEY)

C-448

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

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

Crankset, bottom bracket and chain line [MTB]

C-449

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

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

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	
			OCTALINK	Square	Chain case								
10	SHIMANO	FC-M523	✓	-	-	BB-ES300	-	118	-	-	-	-	-
		FC-M522	✓	-	-	BB-ES300	-	113	-	-	-	-	-
9	SHIMANO	FC-M521	✓	-	✓*	BB-ES300-AK	-	**	-	-	-	-	-
		FC-M4000	✓	-	-	BB-ES300	-	118	-	-	-	-	-
	ALIVIO	FC-T4010	✓	-	✓*	BB-ES300(-K)	-	126(-K)	-	-	-	-	-
		FC-M430-8	✓	-	-	BB-ES300(-E)	-	118(-E)	-	-	-	-	-
		FC-M430	-	✓	-	BB-UN26(-E) BB-UN300(-E)	-	LL113(-E)	-	-	-	-	-
	ACERA	FC-M3000-8	✓	-	-	BB-ES300	-	118	-	-	-	-	-
		FC-M3000 FC-M3000-B2	-	✓	-	BB-UN26 BB-UN300	-	LL113	-	-	-	-	-
		FC-T3010-8	✓	-	✓*	BB-ES300(-K)	-	126(-K)	-	-	-	-	-
		FC-T3010	-	✓	✓*	BB-UN26(-K) BB-UN300(-K)	-	LL123(-K)	-	-	-	-	-
	ALTUS	FC-M2000	-	✓	-	BB-UN26 BB-UN300 BB-UN100 BB-UN101	-	LL123(-K)	-	-	-	-	-
	SHIMANO	FC-MT100	-	✓	-	BB-UN26 BB-UN300 BB-UN100 BB-UN101	-	LL123	-	-	-	-	-
		FC-M371	-	✓	✓*	BB-UN26(-K) BB-UN300(-K)	-	LL123(-K)	-	-	-	-	-
		FC-M351	-	✓	✓*	BB-UN26(-K) BB-UN300(-K)	-	LL123(-K)	-	-	-	-	-
	ACERA ALTUS	FC-M361 FC-M311	-	✓	✓*	BB-UN26(-K) BB-UN300(-K)	-	LL123(-K)	-	-	-	-	-
TOURNEY		FC-TX801	-	✓	✓*	BB-UN26(-K) BB-UN300(-K) BB-UN100(-K) BB-UN101(-K)	-	LL123(-K)	-	-	-	-	-
8, 7	SHIMANO	FC-M315-2	-	✓	-	BB-UN26 BB-UN300 BB-UN100 BB-UN101	-	-	-	-	LL123	-	-
		FC-M315-B2	-	✓	-	BB-UN26 BB-UN300 BB-UN100 BB-UN101	-	-	-	-	-	LL123	-
		FC-TY501-2	-	✓	-	BB-UN26 BB-UN300 BB-UN100 BB-UN101	-	-	-	-	LL123	-	-
8, 7, 6	SHIMANO	FC-TY701 FC-TY501 FC-TY301	-	✓	✓	BB-UN26(-K) BB-UN300(-K) BB-UN100(-K) BB-UN101(-K)	D-NL (122.5)	BB-UN26(-K) BB-UN300(-K) D-EL(-K)	-	D-NL-K (122.5)	-	-	-

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

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

NOTE

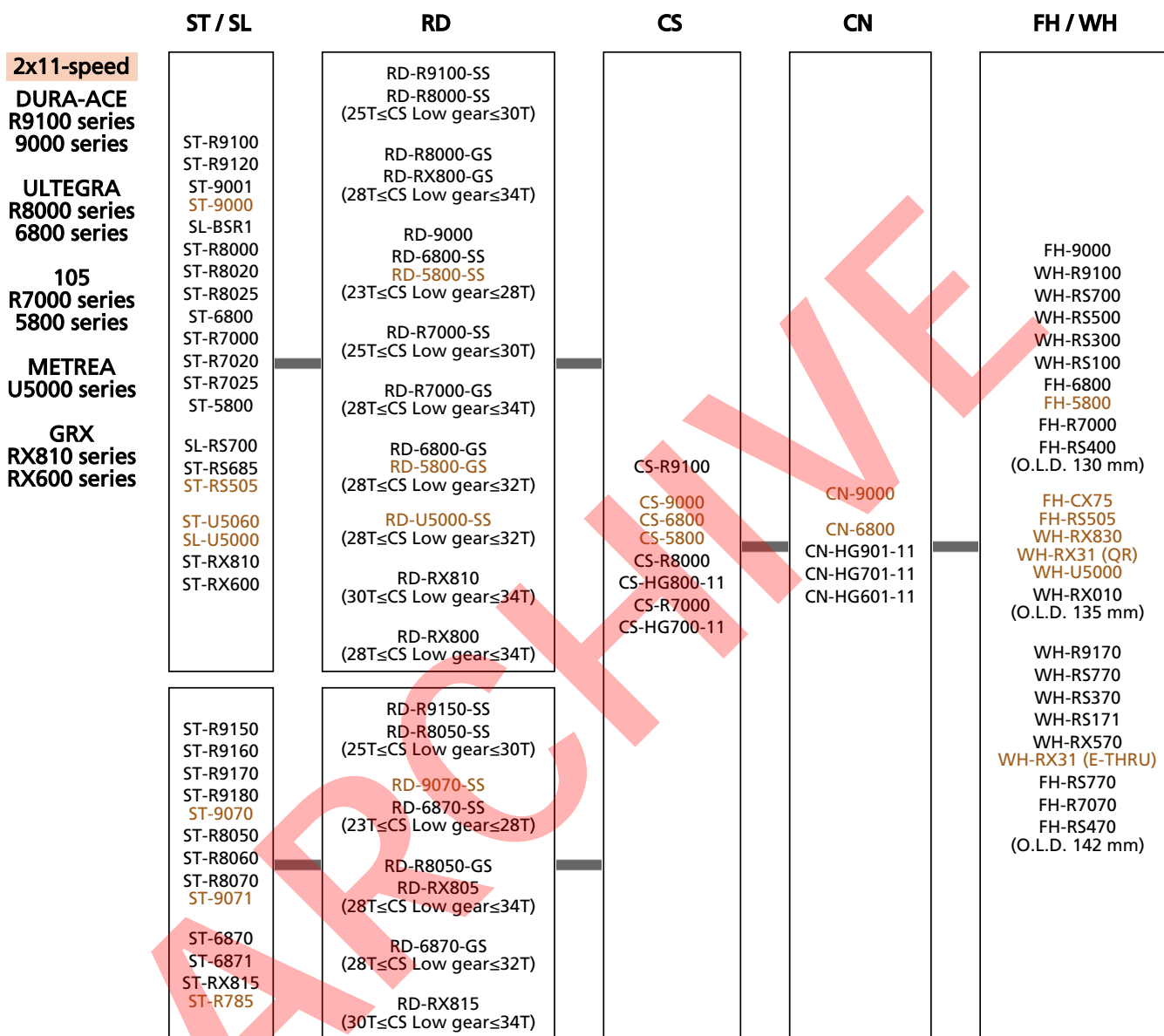
- If using a chain case, select a BB-xxxx (-K) / -K bottom bracket.
- If using an E-type front derailleur, select a BB-xxxx (-E) bottom bracket.
- **FC-M521**: Use 121AK with 1.8 mm spacer if no chain case used.

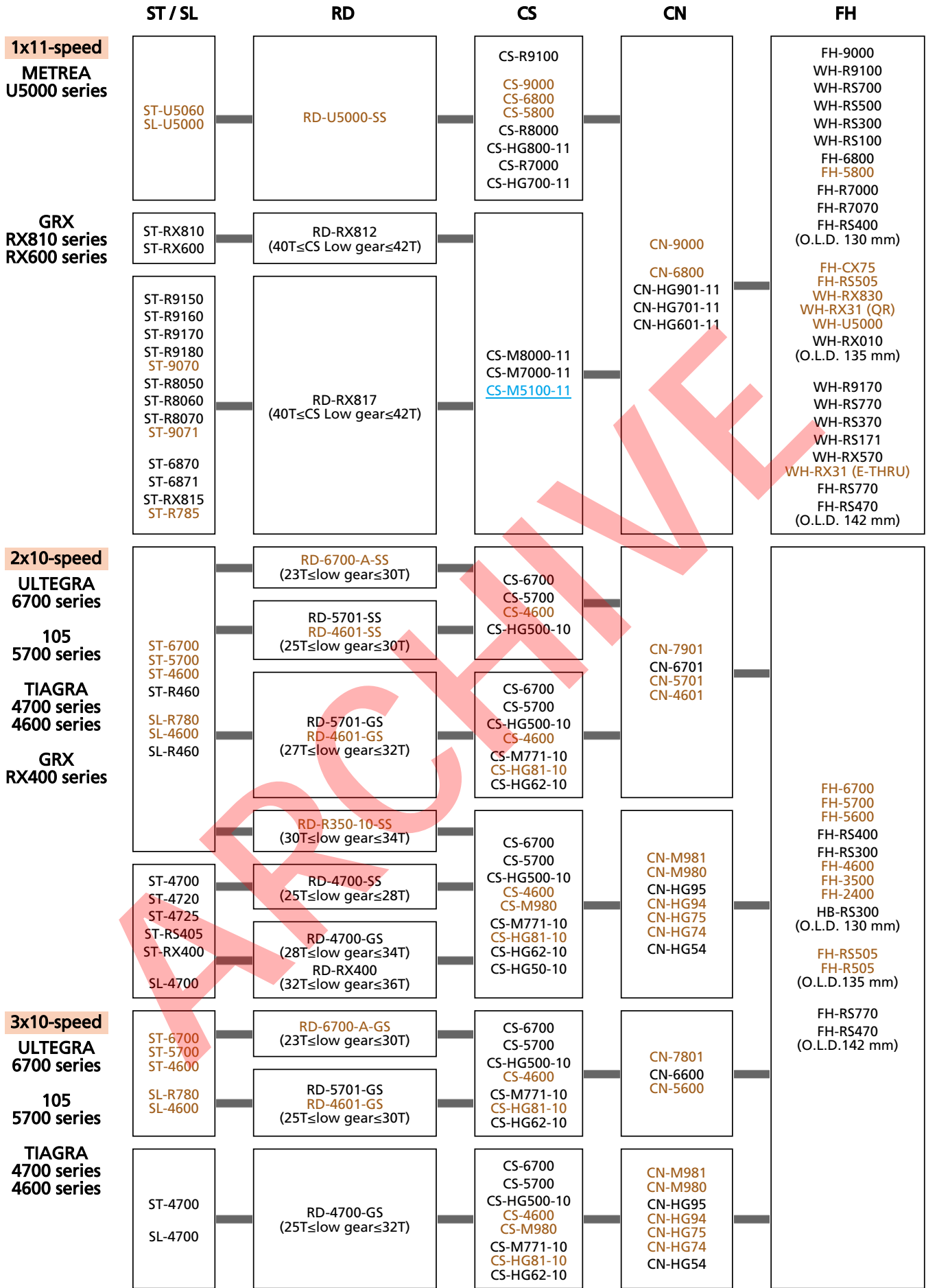
Drivetrain for ROAD, Gravel/Adventure, URBAN (METREA) components

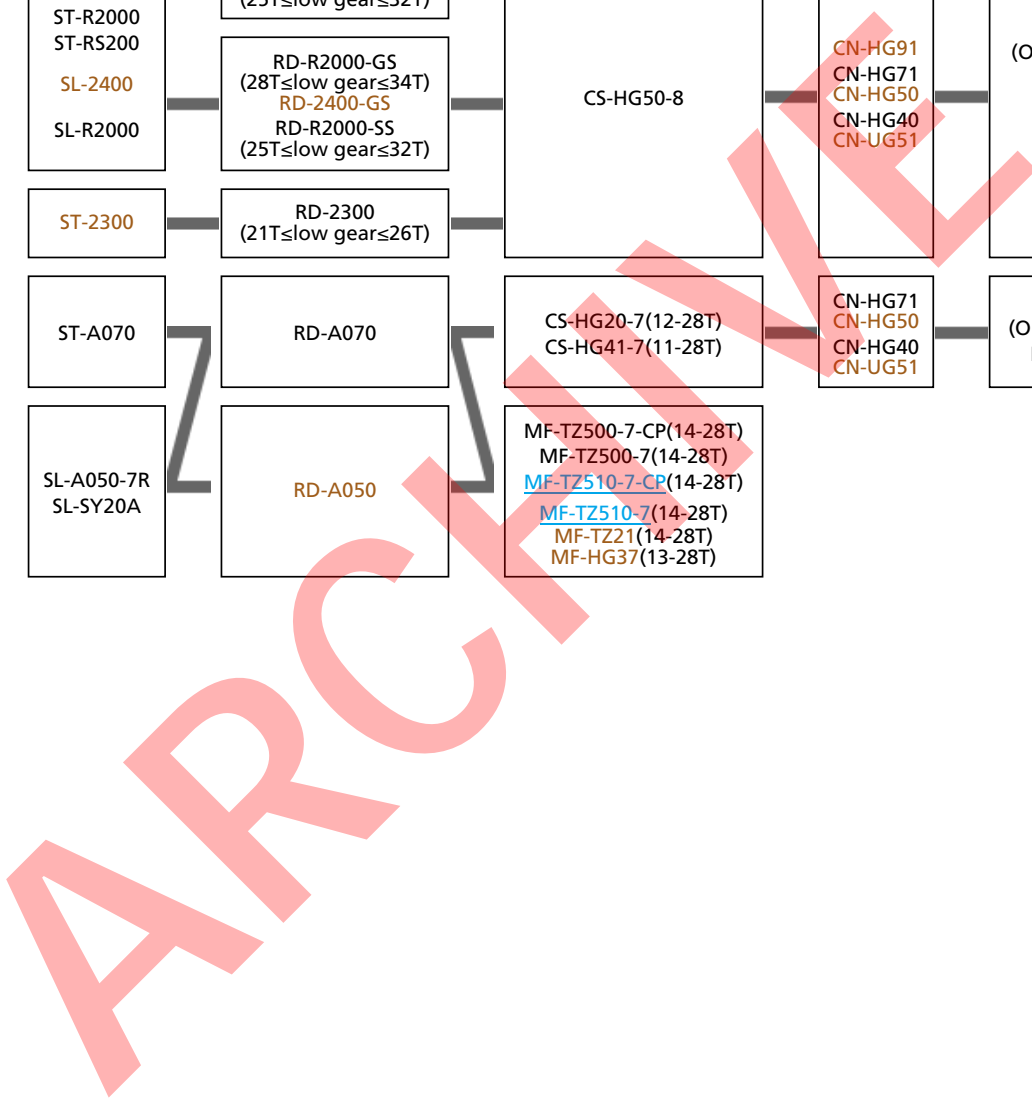
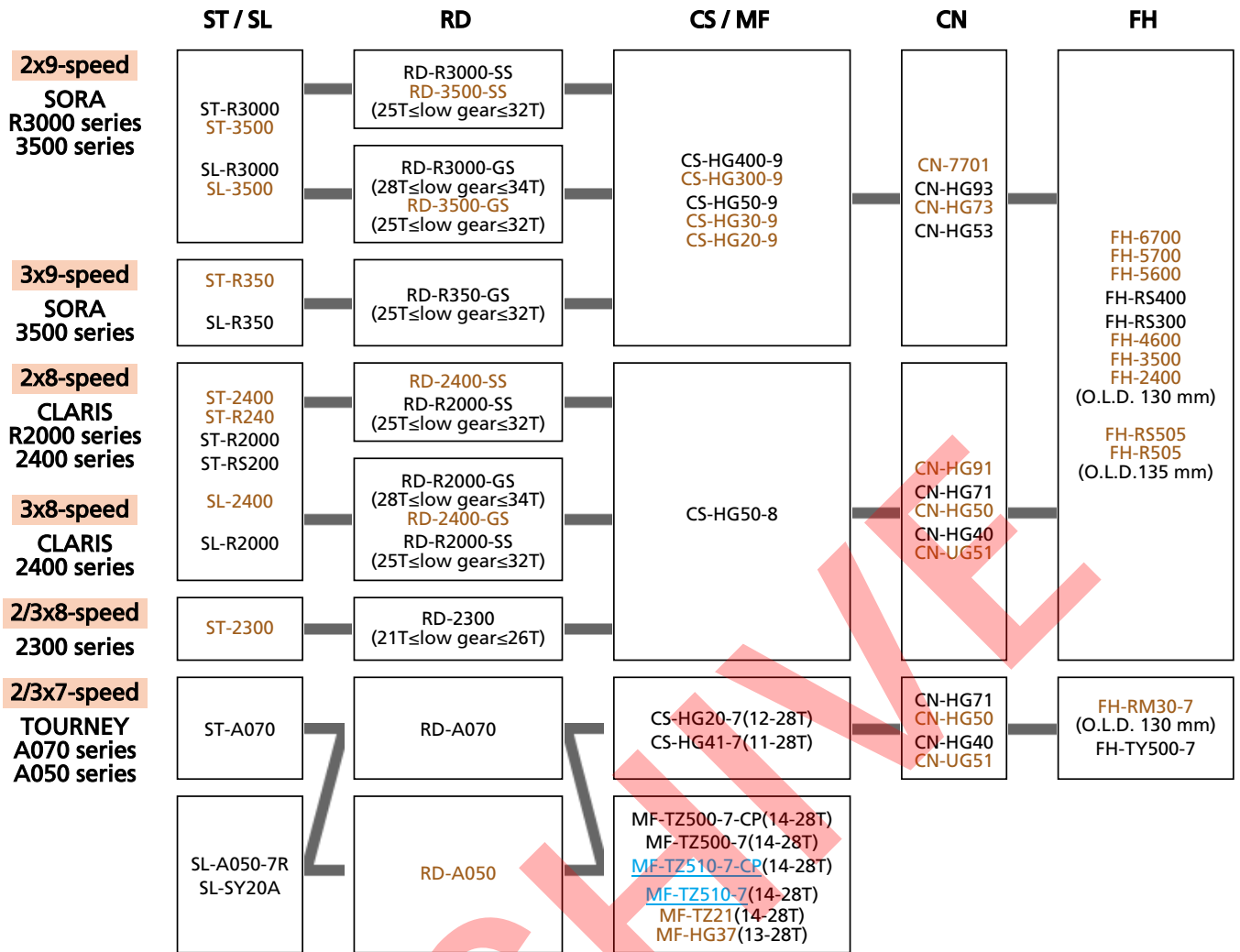
C-453

Rear drivetrain compatibility

C-454







Front drivetrain compatibility

2x11-speed

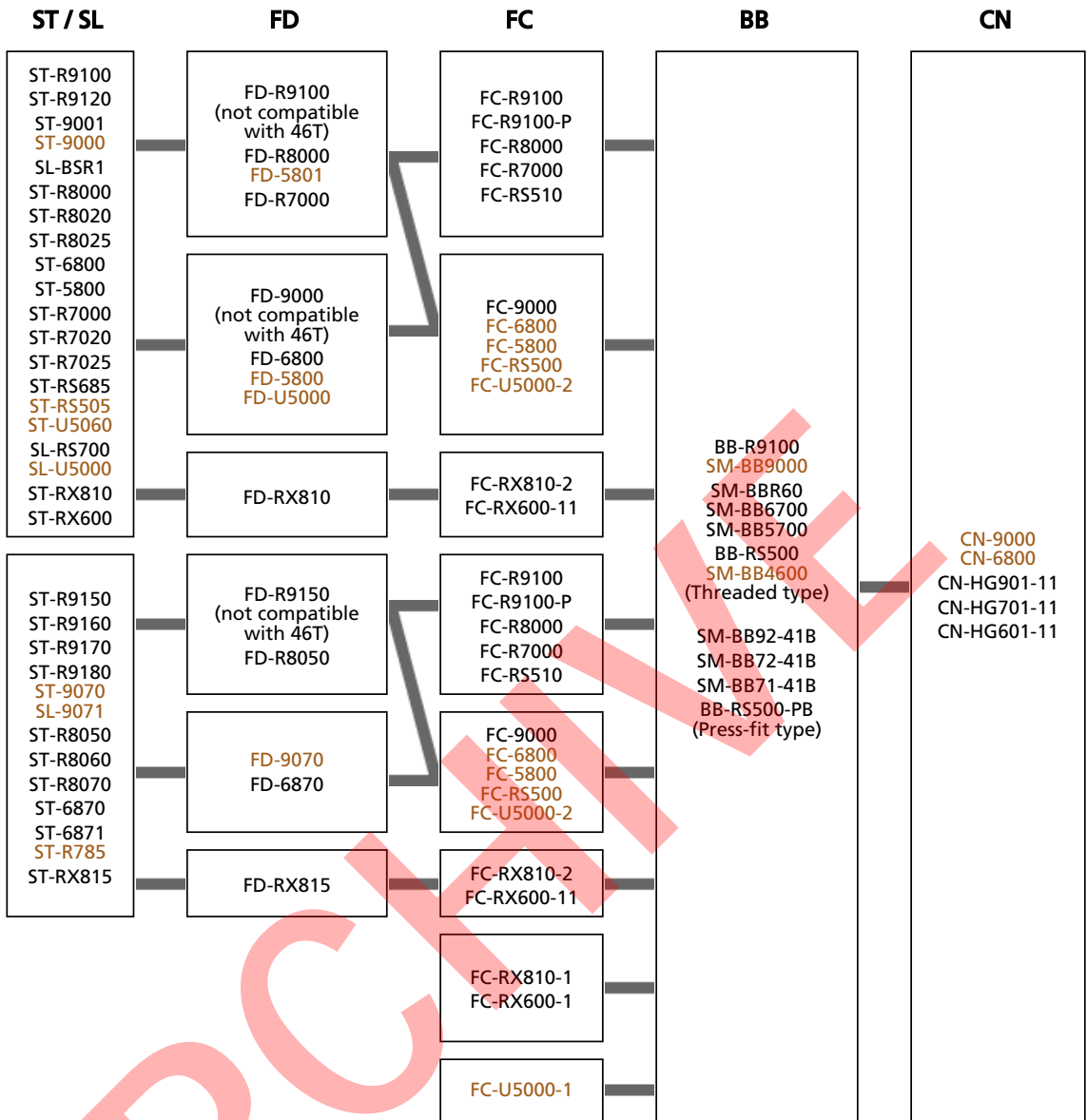
DURA-ACE
R9100 series
9000 series

ULTEGRA
R8000 series
6800 series

105
R7000 series
5800 series

METREA
U5000 series

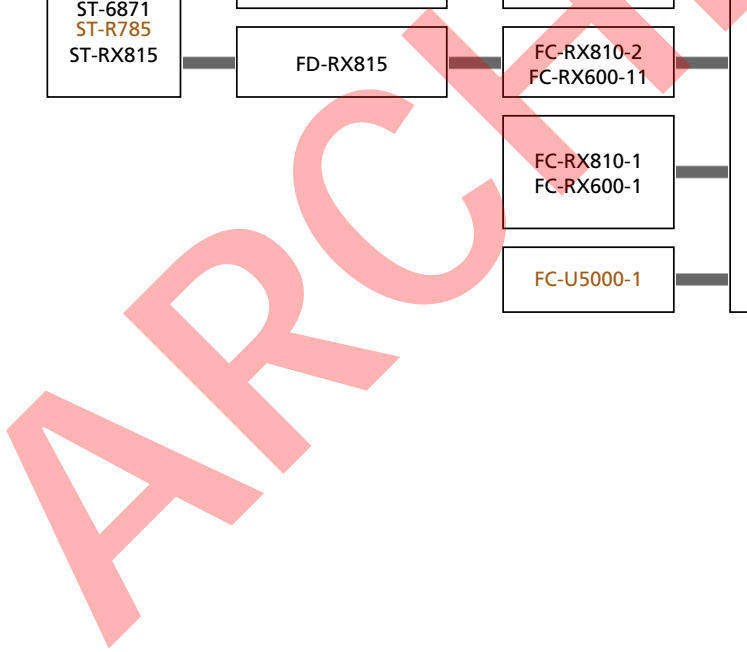
GRX
RX810 series
RX600 series

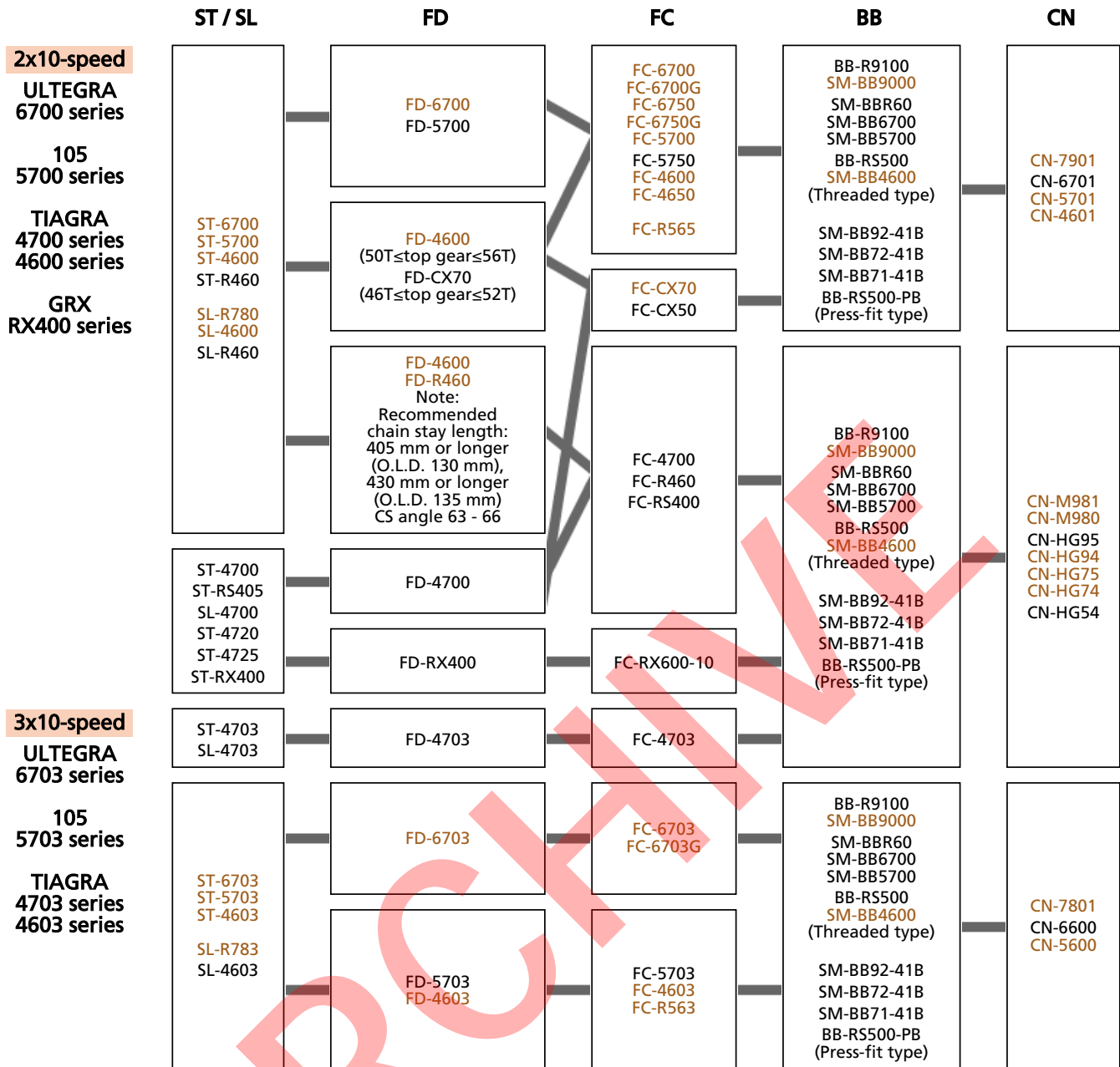


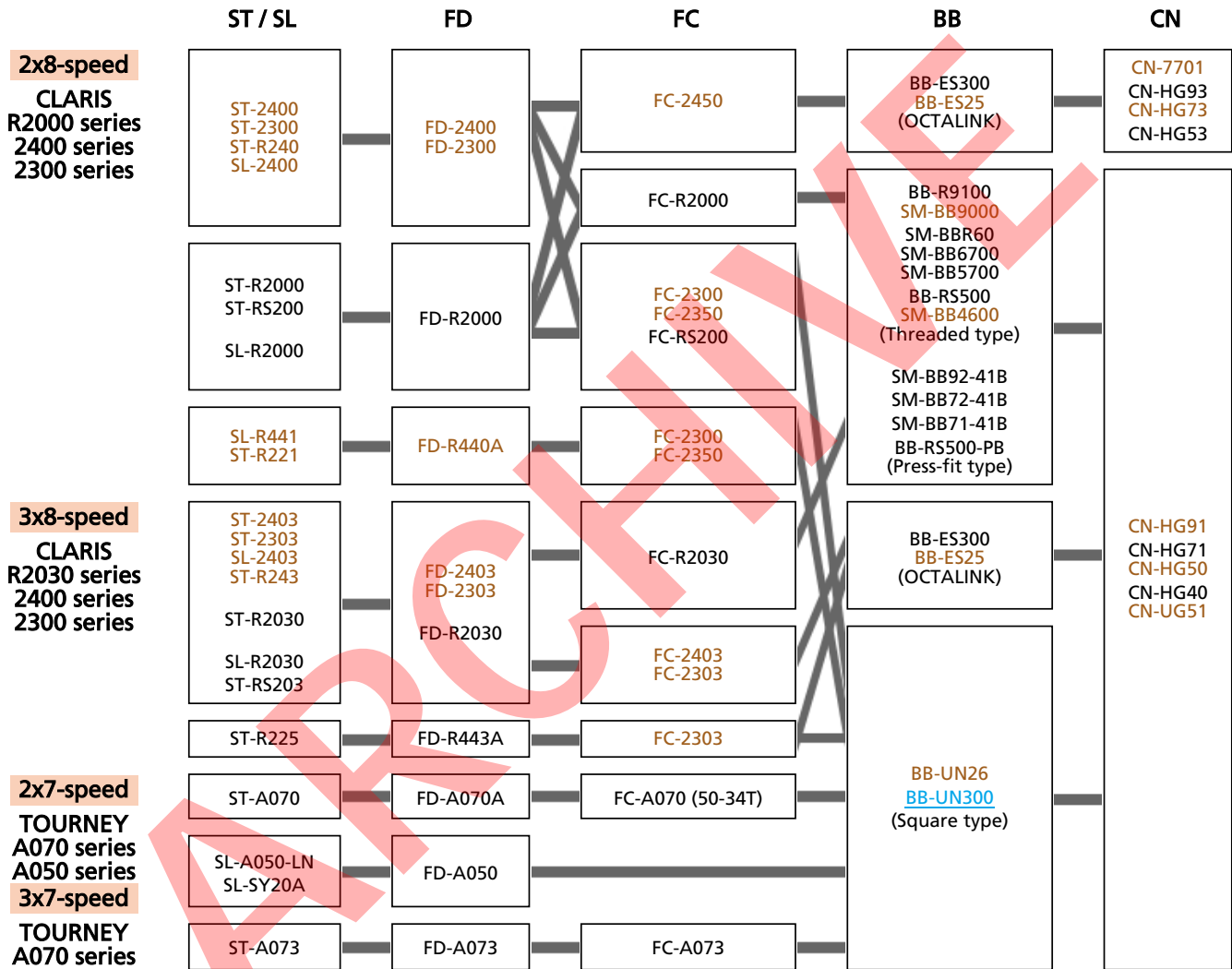
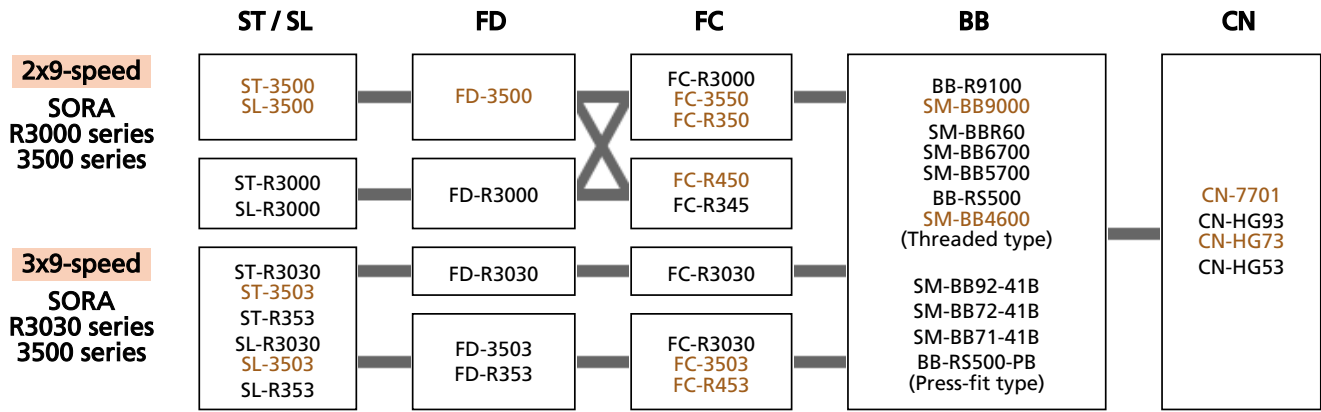
1x11-speed

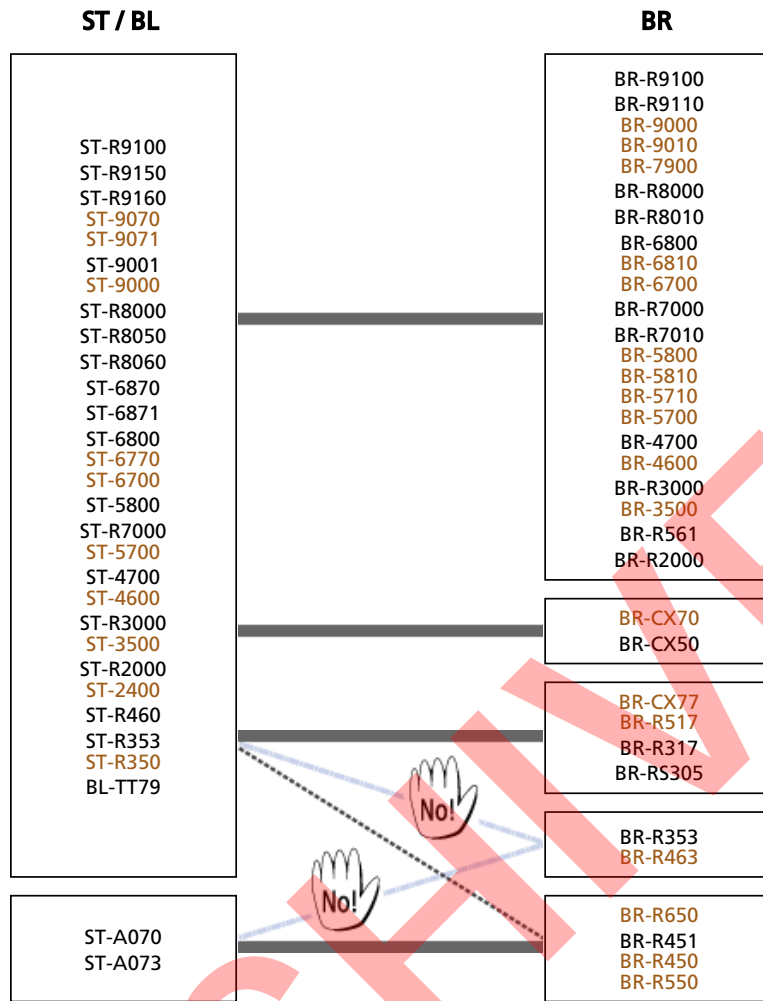
GRX
RX810 series
RX600 series

METREA
U5000 series





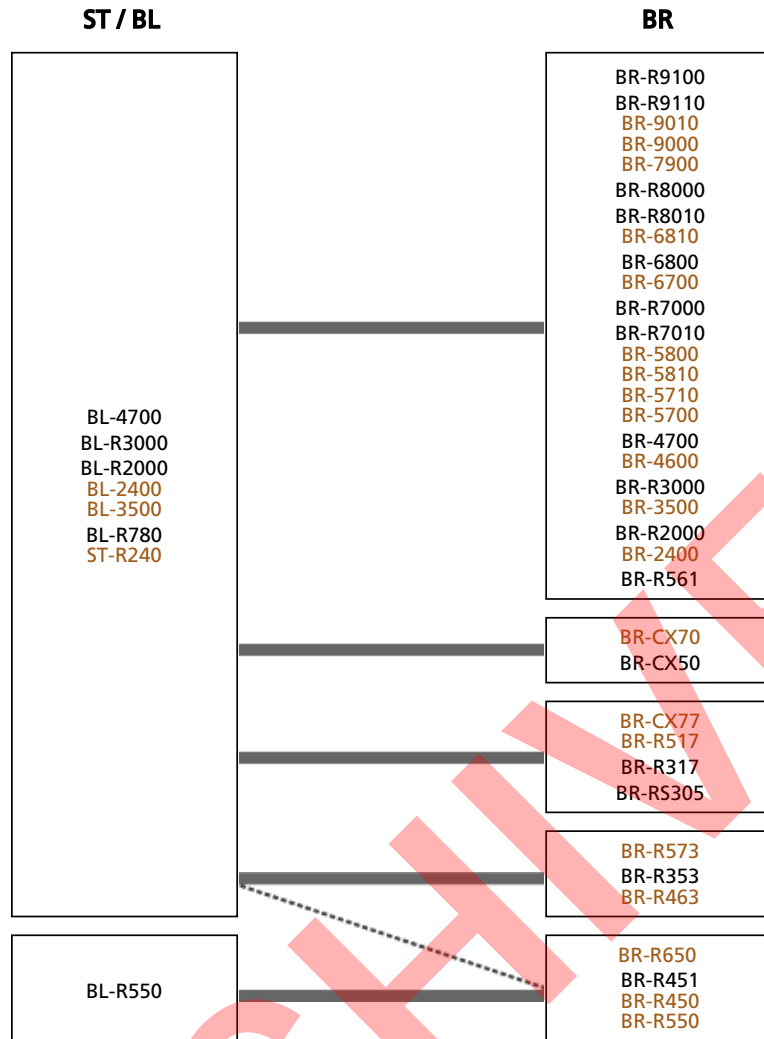




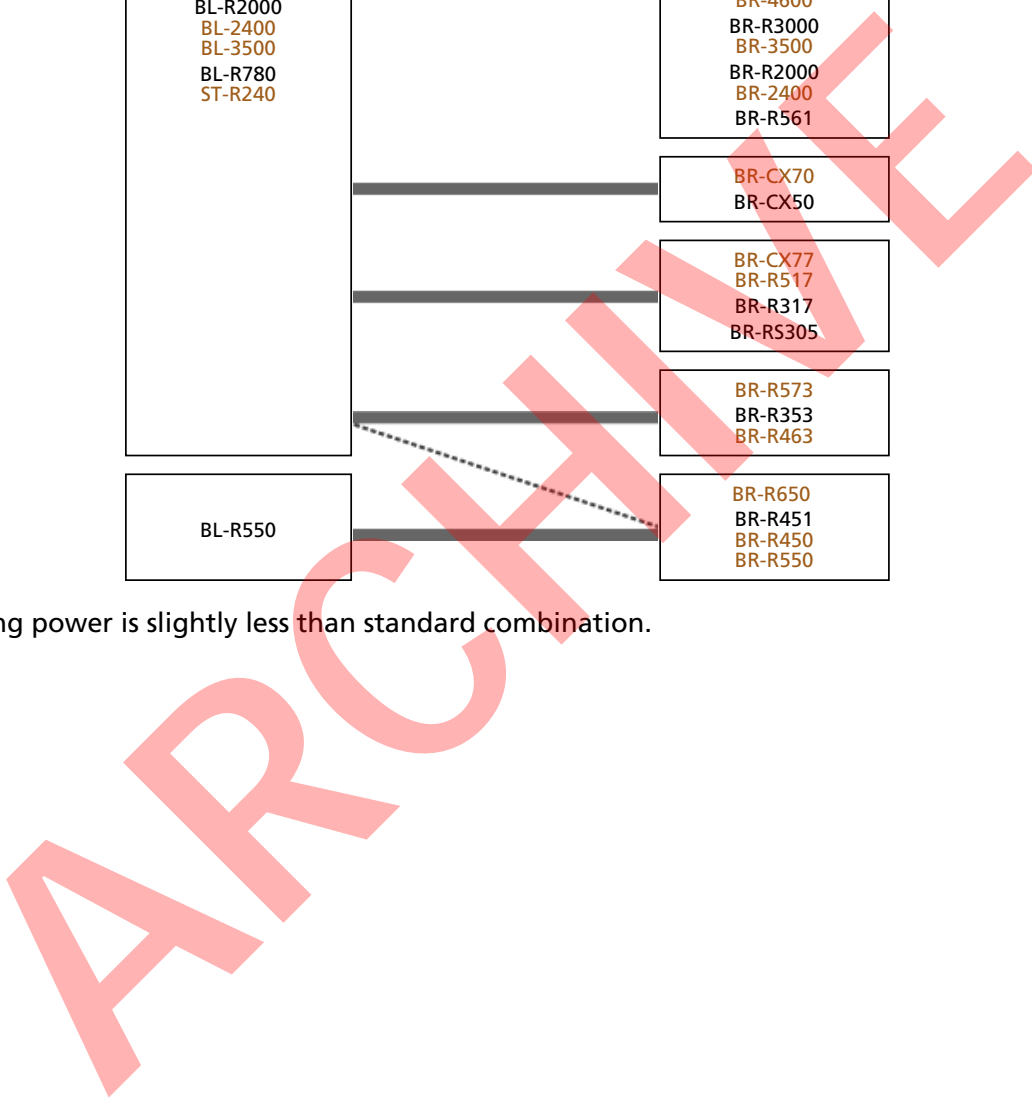
.....: Braking power is slightly less than standard combination.



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

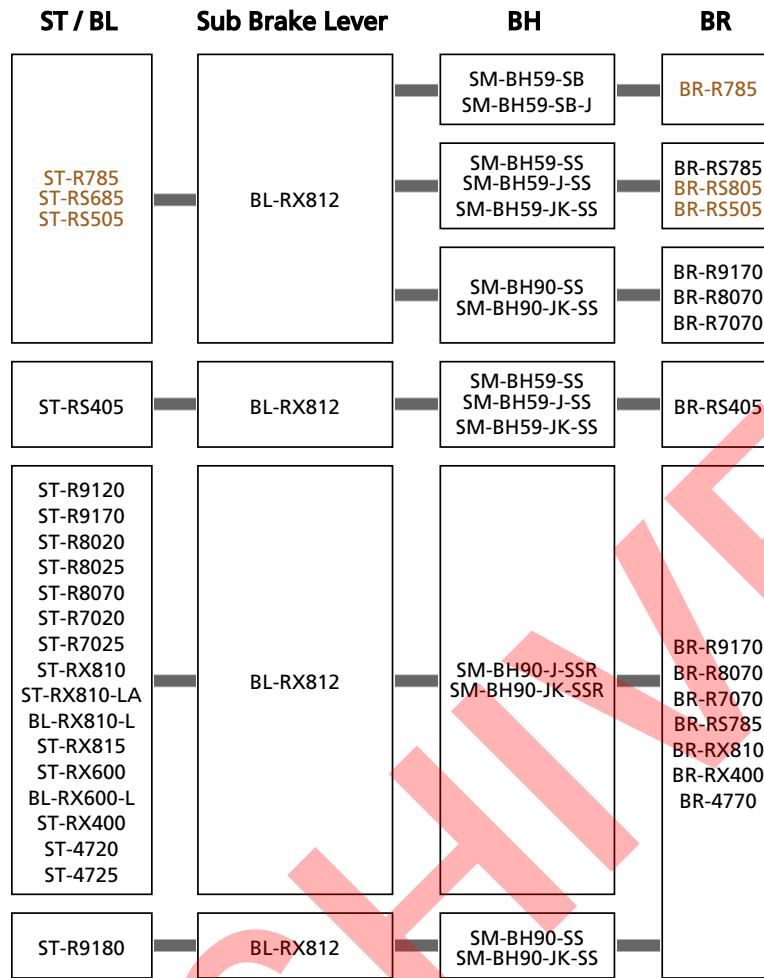


.....: Braking power is slightly less than standard combination.



Hydraulic systems compatibility [ROAD, Gravel/Adventure]

C-499



Hydraulic systems compatibility [URBAN (METREA)]

C-500



Compatibility of I-SPEC shifter and brake lever

C-157

Clamp band type shifter can be compatible as I-SPEC when you change upper body with integration unit.
(Exclude RAPIDFIRE PLUS MONO shifting lever)

I-SPEC EV shifting lever

	Model No.	SL-M9100-I	SL-M8100-I	SL-M7100-I	SL-M6100-I	SL-M5100-I	SL-M4100-I
I-SPEC EV	BL-M9100	✓	✓	✓	✓	✓	✓
	BL-M9120	✓	✓	✓	✓	✓	✓
	BL-M8100	✓	✓	✓	✓	✓	✓
	BL-M7100	✓	✓	✓	✓	✓	✓
	BL-M6100	✓	✓	✓	✓	✓	✓
	BL-M4100	✓	✓	✓	✓	✓	✓
I-SPEC II	BL-M9000	-	-	-	-	-	-
	BL-M9020	-	-	-	-	-	-
	BL-M8000	-	-	-	-	-	-
	BL-T8100	-	-	-	-	-	-
	BL-T8000	-	-	-	-	-	-
	BL-M7000	-	-	-	-	-	-
	BL-M6000	-	-	-	-	-	-
	BL-T6000	-	-	-	-	-	-
	BL-RS600	-	-	-	-	-	-
	BL-MT500	-	-	-	-	-	-
	BL-MT501	-	-	-	-	-	-
BL-U5000	-	-	-	-	-	-	
I-SPEC B	BL-M987	-	-	-	-	-	-
	BL-M988-B	-	-	-	-	-	-
	BL-M820-B	-	-	-	-	-	-
	BL-M640-B	-	-	-	-	-	-
	BL-T780-B	-	-	-	-	-	-
	BL-T675-B	-	-	-	-	-	-
	BL-T670-B	-	-	-	-	-	-
	BL-T610	-	-	-	-	-	-
	BL-M506	-	-	-	-	-	-
BL-S700-B	-	-	-	-	-	-	

I-SPEC II shifting lever

	Model No.	SL-M9000-I	SL-M8000-I	SL-M7000-11-I SL-M7000-10-I	SL-U5000	SL-M6000-I	SL-RS700-I
I-SPEC EV	BL-M9100	-	-	-	-	-	-
	BL-M9120	-	-	-	-	-	-
	BL-M8100	-	-	-	-	-	-
	BL-M7100	-	-	-	-	-	-
	BL-M6100	-	-	-	-	-	-
	BL-M4100	-	-	-	-	-	-
I-SPEC II	BL-M9000	✓	✓	✓	✓	✓	✓
	BL-M9020	✓	✓	✓	✓	✓	✓
	BL-M8000	✓	✓	✓	✓	✓	✓
	BL-T8100	✓	✓	✓	✓	✓	✓
	BL-T8000	✓	✓	✓	✓	✓	✓
	BL-M7000	✓	✓	✓	✓	✓	✓
	BL-M6000	✓	✓	✓	✓	✓	✓
	BL-T6000	✓	✓	✓	✓	✓	✓
	BL-RS600	✓	✓	✓	✓	✓	✓
	BL-MT500	✓	✓	✓	✓	✓	✓
	BL-MT501	✓	✓	✓	✓	✓	✓
BL-U5000	✓	✓	✓	✓	✓	✓	
I-SPEC B	BL-M987	-	-	-	-	-	-
	BL-M988-B	-	-	-	-	-	-
	BL-M820-B	-	-	-	-	-	-
	BL-M640-B	-	-	-	-	-	-
	BL-T780-B	-	-	-	-	-	-
	BL-T675-B	-	-	-	-	-	-
	BL-T670-B	-	-	-	-	-	-
	BL-T610	-	-	-	-	-	-
	BL-M506	-	-	-	-	-	-
BL-S700-B	-	-	-	-	-	-	

I-SPEC B shifting lever

	Model No.	SL-M8000-B-I	SL-M7000-11 SL-M7000-10-B-I	SL-M820-B-I SL-M820 (with SM-SL82-B)
I-SPEC EV	BL-M9100	-	-	-
	BL-M9120	-	-	-
	BL-M8100	-	-	-
	BL-M7100	-	-	-
	BL-M6100	-	-	-
	BL-M4100	-	-	-
I-SPEC II	BL-M9000	-	-	-
	BL-M9020	-	-	-
	BL-M8000	-	-	-
	BL-T8100	-	-	-
	BL-T8000	-	-	-
	BL-M7000	-	-	-
	BL-M6000	-	-	-
	BL-T6000	-	-	-
	BL-RS600	-	-	-
	BL-MT500	-	-	-
	BL-MT501	-	-	-
BL-U5000	-	-	-	
I-SPEC B	BL-M987	✓	✓	✓
	BL-M988-B	✓	✓	✓
	BL-M820-B	✓	✓	✓
	BL-M640-B	✓	✓	✓
	BL-T780-B	✓	✓	✓
	BL-T675-B	✓	✓	✓
	BL-T670-B	✓	✓	✓
	BL-T610	✓	✓	✓
	BL-M506	✓	✓	✓
	BL-S700-B	✓	✓	✓

Compatibility of seat post lever and brake lever

	Model No.	I-SPEC EV shifting lever	
		SL-MT800	SL-MT500-I
I-SPEC EV	BL-M9100	✓	✓
	BL-M9120	✓	✓
	BL-M8100	✓	✓
	BL-M7100	✓	✓
	BL-M6100	✓	✓
	BL-M4100	✓	✓
I-SPEC II	BL-M9000	-	-
	BL-M9020	-	-
	BL-M8000	-	-
	BL-T8100	-	-
	BL-T8000	-	-
	BL-M7000	-	-
	BL-M6000	-	-
	BL-T6000	-	-
	BL-RS600	-	-
	BL-MT500	-	-
	BL-MT501	-	-
BL-U5000	-	-	
I-SPEC B	BL-M987	-	-
	BL-M988-B	-	-
	BL-M820-B	-	-
	BL-M640-B	-	-
	BL-T780-B	-	-
	BL-T675-B	-	-
	BL-T670-B	-	-
	BL-T610	-	-
	BL-M506	-	-
	BL-S700-B	-	-

Disc brake caliper and disc brake rotor compatibility

C-461

Brake caliper	Brake pad material	Pad type	Disc brake rotor			
			203 mm (L)	180 mm (M)	160 mm (S)	140 mm (SS)
BR-M9100*4 BR-M9110 *5 BR-M9120 BR-M9000 BR-M9020 BR-M8100 BR-M8110 *6 BR-M8120 BR-M8000 BR-M8020 BR-M7100 BR-M7110 *6 BR-M7120 BR-M7000 BR-M6100 BR-M6120 BR-M6000 BR-MT520 BR-MT420 BR-M820 BR-M640	Metal / Resin	Narrow	RT-MT900-L SM-RT99-L RT-MT800-L SM-RT86-L SM-RT81-L SM-RT76-L SM-RT70-L SM-RT66-L SM-RT64-L SM-RT30-L*2 RT-EM910-L*1 RT-EM900-L *1 RT-EM810-L*1 RT-EM600-L *1 RT-EM300-L*1*2	RT-MT900-M SM-RT99-M RT-MT800-M SM-RT86-M SM-RT81-M SM-RT76-M SM-RT70-M SM-RT66-M SM-RT64-M SM-RT56-M*2 SM-RT54-M*2 SM-RT30-M*2 SM-RT26-M*2 SM-RT10-M*2 RT-EM910-M*1 RT-EM900-M *1 RT-EM810-M*1 RT-EM800-M *1 RT-EM600-M*1 RT-EM300-M*1,*2	RT-MT900-S SM-RT900-S SM-RT800-S SM-RT99-S RT-MT800-S SM-RT86-S SM-RT81-S SM-RT76-S SM-RT70-S SM-RT66-S SM-RT64-S SM-RTC60 SM-RT56-S*2 SM-RT54-S*2 SM-RT30-S*2 SM-RT26-S*2 SM-RT10-S*2 RT-EM910-M*1 RT-EM900-S *1 RT-EM810-M*1 RT-EM800-S *1 RT-EM600-S*1 RT-EM300-S*1,*2	RT-MT900-SS SM-RT900-SS SM-RT99-SS SM-RT99-A-SS RT-MT800-SS SM-RT800-SS SM-RT81-SS SM-RT70-SS
BR-S700 BR-S7000	Resin					
BR-MT410	Resin	Wide	SM-RT30-L RT-EM300-L*1			
BR-T675 BR-T615 BR-M4050 BR-MT500 BR-M446 BR-MT400 BR-M3050 BR-M395 BR-M375 BR-MT200 BR-M365 BR-M315 BR-TX805 BR-UR300	Resin	Wide		SM-RT56-M SM-RT54-M SM-RT30-M SM-RT26-M SM-RT10-M RT-EM300-M*1	SM-RT56-S SM-RT54-S SM-RT30-S SM-RT26-S SM-RT10-S RT-EM300-S*1	
BR-R9170*3 BR-R8070 BR-R7070 BR-4770 BR-RS805 BR-R785 BR-RS785 BR-RS505 BR-RS405 BR-RX810 BR-RX400	Metal / Resin	Narrow	-	RT-MT900-M RT-MT800-M SM-RT99-M SM-RT86-M SM-RT81-M SM-RT70-M SM-RT66-M SM-RT64-M SM-RT56-M*2 SM-RT54-M*2 SM-RT30-M*2 SM-RT26-M*2 SM-RT10-M*2 RT-EM910-M*1 RT-EM900-M *1 RT-EM810-M*1 RT-EM800-M *1 RT-EM600-M*1 RT-EM300-M*1,*2	RT-MT900-S SM-RT900-S RT-MT800-S SM-RT800-S SM-RT99-S SM-RT86-S SM-RT81-S SM-RT70-S SM-RT66-S SM-RT64-S SM-RT56-S*2 SM-RT54-S*2 SM-RT30-S*2 SM-RT26-S*2 SM-RT10-S*2 RT-EM910-S*1 RT-EM900-S *1 RT-EM810-S*1 RT-EM800-S *1 RT-EM600-S*1 RT-EM300-S*1,*2	RT-MT900-SS SM-RT900-SS RT-MT800-SS SM-RT800-SS SM-RT99-SS SM-RT99-A-SS SM-RT81-SS SM-RT70-SS
BR-CX77 BR-R517 BR-R317 BR-RS305	Metal / Resin	Narrow	-	-	SM-RT99-S SM-RT86-S SM-RT81-S SM-RT76-S SM-RT70-S SM-RT66-S SM-RT64-S	SM-RT99-SS SM-RT99-A-SS SM-RT81-SS
BR-U5000 *3	Metal / Resin	Narrow	-	-	SM-RT99-S SM-RT86-S SM-RT81-S SM-RT76-S SM-RT70-S SM-RT66-S SM-RT64-S	SM-RT500-SS SM-RT99-SS SM-RT99-A-SS SM-RT81-SS

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

*2 Resin pad only

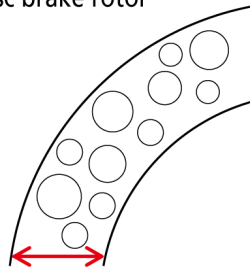
*3 Not compatible with rear 180 mm (M) disc brake rotors

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

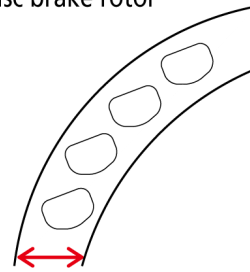
*5 For rear only. Not compatible with 203 mm (L) and 180 mm (M) disc brake rotors.

*6 For rear only. Not compatible with 203 mm (L) disc brake rotors.

Wide type disc brake rotor



Narrow type disc brake rotor



NOTE

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

ARCHIVE

Compatibility of lock ring with hubs

C-612

Front hub (Disc Brake)

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

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

FREEHUB (Disc Brake)

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

Compatibility between brake systems (MT400 series)

C-606

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

Combination chart (Mechanical Disc)

C-462

Mechanical Disc Brake combination chart C-463

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

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

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

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

Mechanical Disc brake and Brake lever compatibility C-464

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

* POWER MODULATOR must be used for front brake

Compatibility between hydraulic disc brake hose

Connection		SM-BH90-JK-SSR	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBS	SM-BH90-SB	SM-BH90-SS
Rigidity		Straight - Straight	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Straight
		High power	High power	High power	High power	High power	High power
BL-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	-	-	-	-	-	-
BL-RS600	BR-RS405	-	-	-	-	-	-
BL-MT501	BR-MT520	-	-	-	-	-	✓
BL-MT501	BR-MT500	-	-	-	-	-	-
BL-MT500	BR-MT500	-	-	-	-	-	-
ST-M4050	BR-M4050	-	-	-	-	-	-
ST-M3050	BR-M3050	-	-	-	-	-	-
BL-T445	BR-M446	-	-	-	-	-	-
BL-MT400	BR-MT400	-	-	-	-	-	-
BL-MT401	BR-MT400	-	-	-	-	-	-
BL-MT401	BR-MT420	-	-	-	-	-	✓
BL-MT401-3A	BR-MT400	-	-	-	-	-	-
BL-MT402-3A	BR-MT400	-	-	-	-	-	-
BL-MT402-3A	BR-MT420	-	-	-	-	-	✓
BL-M425 BL-M396	BR-M395	-	-	-	-	-	-
BL-MT201	BR-MT200	-	-	-	-	-	-
BL-MT200	BR-MT200	-	-	-	-	-	-
BL-MT201	BR-UR300	-	-	-	-	-	-
BL-MT200	BR-UR300	-	-	-	-	-	-
BL-M365	BR-M365	-	-	-	-	-	-
BL-M315	BR-M315	-	-	-	-	-	-
ST-EF505	BR-M315	-	-	-	-	-	-
ST-EF505	BR-MT200	-	-	-	-	-	-
BL-S700	BR-S700	-	✓	-	-	✓	-
ST-R9120	BR-R9170	✓	-	-	-	-	-
ST-R9170	BR-R9170	✓	-	-	-	-	-
ST-R9180	BR-R9170	✓	-	-	-	-	-
ST-R8020	BR-R8070	✓	-	-	-	-	-
ST-R8070	BR-R8070	✓	-	-	-	-	-
ST-R7020	BR-R7070	✓	-	-	-	-	-
ST-R7025	BR-R7070	✓	-	-	-	-	-
ST-R785	BR-RS805	-	-	-	-	-	-
ST-R785	BR-RS785	-	-	-	-	-	-
ST-R785	BR-R785	-	-	-	-	-	-
ST-RS685	BR-RS805	-	-	-	-	-	-
ST-RS685	BR-RS785	-	-	-	-	-	-
ST-RS685	BR-R785	-	-	-	-	-	-
ST-RS505	BR-RS785	-	-	-	-	-	-
ST-RS505	BR-RS505	-	-	-	-	-	-
ST-RS405	BR-RS405	-	-	-	-	-	-
ST-RX815	BR-RX810	✓	-	-	-	-	-
ST-RX810	BR-RX810	✓	-	-	-	-	-
BL-RX810	BR-RX810	✓	-	-	-	-	-
ST-RX600	BR-RX400	✓	-	-	-	-	-
BL-RX600	BR-RX400	✓	-	-	-	-	-
ST-RX400	BR-RX400	✓	-	-	-	-	-
BL-U5000		-	-	-	-	-	-
BL-U5010	BR-U5000	-	-	-	-	-	-
ST-U5060		-	-	-	-	-	-

		SM-BH59-J-SS	SM-BH59-JK-SS (MTB)	SM-BH59-JK-SS (ROAD)	SM-BH59-SB	SM-BH59-SB-J
Connection		Straight - Straight	Straight - Straight	Straight - Straight	Straight - Banjo	Straight - Banjo
Rigidity		Standard	Standard	Standard	Standard	Standard
BL-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	-	✓	-	-	-
BL-R5600	BR-R5405	-	✓	-	-	-
BL-MT501	BR-MT520	-	-	-	-	-
BL-MT501	BR-MT500	-	✓	-	-	-
BL-MT500	BR-MT500	-	✓	-	-	-
ST-M4050	BR-M4050	-	✓	-	-	-
ST-M3050	BR-M3050	-	✓	-	-	-
BL-T445	BR-M446	-	✓	-	-	-
BL-MT400	BR-MT400	-	✓	-	-	-
BL-MT401	BR-MT400	-	✓	-	-	-
BL-MT401	BR-MT420	-	-	-	-	-
BL-MT401-3A	BR-MT400	-	✓	-	-	-
BL-MT402-3A	BR-MT400	-	✓	-	-	-
BL-MT402-3A	BR-MT420	-	-	-	-	-
BL-M425	BR-M395	-	✓	-	-	-
BL-M396		-		-	-	-
BL-MT201	BR-MT200	-	✓	-	-	-
BL-MT200	BR-MT200	-	✓	-	-	-
BL-MT201	BR-UR300	-	✓	-	-	-
BL-MT200	BR-UR300	-	✓	-	-	-
BL-M365	BR-M365	-	✓	-	-	-
BL-M315	BR-M315	-	✓	-	-	-
ST-EF505	BR-M315	-	✓	-	-	-
ST-EF505	BR-MT200	-	✓	-	-	-
BL-S700	BR-S700	-	-	-	-	-
ST-R9120	BR-R9170	-	-	-	-	-
ST-R9170		-		-		
ST-R9180	BR-R9170	-	-	-	-	-
ST-R8020	BR-R8070	-	-	-	-	-
ST-R8070		-		-		
ST-R7020	BR-R7070	-	-	-	-	-
ST-R7025	BR-R7070	-	-	-	-	-
ST-R785	BR-RS805	✓	-	-	-	-
ST-R785	BR-RS785	✓	-	-	-	-
ST-R785	BR-R785	-	-	-	✓	✓
ST-R5685	BR-RS805	✓	-	✓	-	-
ST-R5685	BR-RS785	✓	-	✓	-	-
ST-R5685	BR-R785	-	-	-	✓	✓
ST-R5505	BR-RS785	✓	-	✓	-	-
ST-R5505	BR-R5505	✓	-	✓	-	-
ST-R5405	BR-RS405	-	-	✓	-	-
ST-RX815	BR-RX810	-	-	-	-	-
ST-RX810	BR-RX810	-	-	-	-	-
BL-RX810	BR-RX810	-	-	-	-	-
ST-RX600	BR-RX400	-	-	-	-	-
BL-RX600	BR-RX400	-	-	-	-	-
ST-RX400	BR-RX400	-	-	-	-	-
BL-U5000		-	-	✓	-	-
BL-U5010	BR-U5000	-	-	✓	-	-
ST-U5060		-	-	✓	-	-

Level of compatibility

✓: Compatible

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

-: Impossible to use



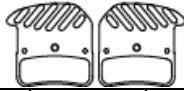
Compatibility between banjo bolt



C-625


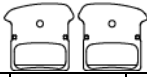

Banjo Bolt	Special	Normal	Short	BR-M9120 SPEC.	BR-M8100 SPEC.
BR-M9120	-	-	-	✓	-
BR-M9000	✓	-	-	-	-
BR-M9020	✓	✓	-	-	-
BR-M820	-	-	✓	-	✓
BR-M8100	-	-	-	-	✓
BR-M8120	-	-	-	✓	-
BR-M8000	✓	✓	-	-	-
BR-M8020	-	-	✓	-	-
BR-M7100	-	-	-	-	✓
BR-M7120	-	-	-	✓	-
BR-M7000	✓	✓	-	-	-
BR-M640	-	-	✓	-	✓
BR-S700	✓	✓	-	-	-
BR-R785	✓	✓	-	-	-


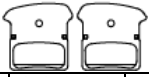
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Brake pad line-up

Model No.	Type	B01S	D01S	D03S	D02S	H01A	H03A	H03C
		Resin	Resin	Resin	Metal	Resin	Resin	Metal
Pad Shape Type		B-type: Wide type 	D-type: Narrow type 		H-type: Narrow type 			
Characteristics	Modulation	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★☆
	Power	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★☆	★★★★☆	★★★★★
	Durability	★★★★☆	★★★★☆	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★★
	Anti-fading	★★★☆☆	★★★☆☆	★★★☆☆	★★★★★	★★★★☆	★★★★☆	★★★★★
	Silence	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★☆
Pad Radiator fin		-	-	-	-	✓	✓	✓
High heat insulation		-	-	-	-	-	-	-
Pad Back plate	Titanium	-	-	-	-	-	-	-
	Aluminum	-	-	-	-	✓	✓	-
	Stainless steel/ Aluminum	-	-	-	-	-	-	✓
	Stainless steel	✓	✓	✓	✓	-	-	-
BR-M9100	Hydraulic	-	-	-	-	-	-	-
BR-M9110	Hydraulic	-	-	-	-	-	-	-
BR-M9120	Hydraulic	-	-	-	-	-	-	-
BR-M8100	Hydraulic	-	-	-	-	-	-	-
BR-M8110	Hydraulic	-	-	-	-	-	-	-
BR-M8120	Hydraulic	-	-	Option	Option	-	-	-
BR-M7100	Hydraulic	-	-	-	-	-	-	-
BR-M7110	Hydraulic	-	-	-	-	-	-	-
BR-M7120	Hydraulic	-	-	Standard	Option	-	-	-
BR-M8000	Hydraulic	-	-	-	-	-	-	-
BR-M8020	Hydraulic	-	Option	Option	-	Standard	Standard	Option
BR-M6100	Hydraulic	-	-	-	-	-	-	-
BR-M6120	Hydraulic	-	-	Standard	Option	-	-	-
BR-M6000	Hydraulic	-	-	-	-	-	-	-
BR-M820	Hydraulic	-	-	-	-	Standard	Standard	Standard
BR-MT500	Hydraulic	Standard	-	-	-	-	-	-
BR-MT520	Hydraulic	-	Standard	Standard	Standard	-	-	-
BR-MT400	Hydraulic	Standard	-	-	-	-	-	-
BR-MT410	Hydraulic	Standard	-	-	-	-	-	-
BR-MT420	Hydraulic	-	-	Standard	Standard	-	-	-
BR-MT200	Hydraulic	Standard	-	-	-	-	-	-
BR-M375	Mechanical	Standard	-	-	-	-	-	-
BR-TX805	Mechanical	Standard	-	-	-	-	-	-
BR-R9170	Hydraulic	-	-	-	-	-	-	-
BR-R8070	Hydraulic	-	-	-	-	-	-	-
BR-R7070	Hydraulic	-	-	-	-	-	-	-
BR-4770	Hydraulic	-	-	-	-	-	-	-
BR-RS785	Hydraulic	-	-	-	-	-	-	-
BR-RS405	Hydraulic	-	-	-	-	-	-	-
BR-RS305	Mechanical	-	-	-	-	-	-	-
BR-R317	Mechanical	-	-	-	-	-	-	-
BR-RX810	Hydraulic	-	-	-	-	-	-	-
BR-RX400	Hydraulic	-	-	-	-	-	-	-
BR-UR300	Hydraulic	Standard	-	-	-	-	-	-
BR-S7000	Hydraulic	-	-	-	-	-	-	-

Model No.	Type	N03A	N04C	G02A	G02S	G03A	G03S	G03S	G04S
		Resin	Metal	Resin	Resin	Resin	Resin	Metal	Metal
Pad Shape Type		N-type: Narrow type 		G-type: Narrow type 					
Characteristics	Modulation	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆
	Power	★★★★☆	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★★
	Durability	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★★	★★★★★	★★★★★	★★★★★
	Anti-fading	★★★★☆	★★★★★	★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆	★★★★★	★★★★★
	Silence	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★★	★★★★★	★★★☆☆	★★★☆☆
Pad Radiator fin		✓	✓	-	-	-	-	-	-
High heat insulation		-	-	✓	✓	✓	✓	-	-
Pad Back plate	Titanium	-	-	-	-	-	-	-	-
	Aluminum	✓	-	✓	-	✓	-	-	-
	Stainless steel/ Aluminum	-	✓	-	-	-	-	-	-
	Stainless steel	-	-	-	✓	-	✓	✓	✓
BR-M9100	Hydraulic	-	-	-	-	-	-	-	-
BR-M9110	Hydraulic	-	-	-	-	-	-	-	-
BR-M9120	Hydraulic	Standard	Standard	-	-	-	-	-	-
BR-M8100	Hydraulic	-	-	-	-	Standard	-	-	Standard
BR-M8110	Hydraulic	-	-	-	-	-	-	-	-
BR-M8120	Hydraulic	Standard	Standard	-	-	-	-	-	-
BR-M7100	Hydraulic	-	-	-	-	-	Standard	-	Standard
BR-M7110	Hydraulic	-	-	-	-	-	-	-	-
BR-M7120	Hydraulic	Standard	Option	-	-	-	-	-	-
BR-M8000	Hydraulic	-	-	-	Standard	Standard	-	-	Option
BR-M8020	Hydraulic	-	-	-	-	-	-	-	-
BR-M6100	Hydraulic	-	-	-	-	-	Standard	-	Option
BR-M6120	Hydraulic	-	-	-	-	-	-	-	-
BR-M6000	Hydraulic	-	-	-	Standard	-	Standard	-	Option
BR-M820	Hydraulic	-	-	-	-	-	-	-	-
BR-MT500	Hydraulic	-	-	-	-	-	-	-	-
BR-MT520	Hydraulic	-	-	-	-	-	-	-	-
BR-MT400	Hydraulic	-	-	-	-	-	-	-	-
BR-MT410	Hydraulic	-	-	-	-	-	-	-	-
BR-MT420	Hydraulic	-	-	-	-	-	-	-	-
BR-MT200	Hydraulic	-	-	-	-	-	-	-	-
BR-M375	Mechanical	-	-	-	-	-	-	-	-
BR-TX805	Mechanical	-	-	-	-	-	-	-	-
BR-R9170	Hydraulic	-	-	-	-	-	-	-	-
BR-R8070	Hydraulic	-	-	-	-	-	-	-	-
BR-R7070	Hydraulic	-	-	-	-	-	-	-	-
BR-4770	Hydraulic	-	-	-	-	-	-	-	-
BR-RS785	Hydraulic	-	-	Option	-	Option	-	Option	-
BR-RS405	Hydraulic	-	-	-	-	-	-	-	-
BR-RS305	Mechanical	-	-	-	-	-	-	-	-
BR-R317	Mechanical	-	-	-	-	-	Standard	-	-
BR-RX810	Hydraulic	-	-	-	-	-	-	-	-
BR-RX400	Hydraulic	-	-	-	-	-	-	-	-
BR-UR300	Hydraulic	-	-	-	-	-	-	-	-
BR-S7000	Hydraulic	-	-	-	-	-	Standard	-	-

Model No.	Type	G04Ti	J02A	J03A	J04C	K02S	K02Ti	K03S
		Metal	Resin	Resin	Metal	Resin	Resin	Resin
Pad Shape Type		G-type: Narrow type 	F-type: Narrow type 		K-type: Narrow type 			
Characteristics	Modulation	★★★★☆	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★★
	Power	★★★★★	★★★★☆	★★★★☆	★★★★★	★★★★☆	★★★★☆	★★★★☆
	Durability	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★★
	Anti-fading	★★★★★	★★★★☆	★★★★☆	★★★★★	★★★★☆	★★★★☆	★★★★☆
	Silence	★★★☆☆	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★★
Pad Radiator fin		-	✓	✓	✓	-	-	-
High heat insulation		-	✓	✓	-	✓	✓	✓
Pad Back plate	Titanium	✓	-	-	-	-	✓	-
	Aluminum	-	✓	✓	-	-	-	-
	Stainless steel/ Aluminum	-	-	-	✓	-	-	-
	Stainless steel	-	-	-	-	✓	-	✓
BR-M9100	Hydraulic	-	-	-	-	-	-	-
BR-M9110	Hydraulic	-	-	-	-	-	-	-
BR-M9120	Hydraulic	-	-	-	-	-	-	-
BR-M8100	Hydraulic	-	-	Option	Option	-	-	-
BR-M8110	Hydraulic	-	-	-	-	-	-	Standard
BR-M8120	Hydraulic	-	-	-	-	-	-	-
BR-M7100	Hydraulic	-	-	Option	Option	-	-	-
BR-M7110	Hydraulic	-	-	-	-	-	-	Standard
BR-M7120	Hydraulic	-	-	-	-	-	-	-
BR-M8000	Hydraulic	-	Standard	Standard	Option	-	-	-
BR-M8020	Hydraulic	-	-	-	-	-	-	-
BR-M6100	Hydraulic	-	-	Standard	-	-	-	-
BR-M6120	Hydraulic	-	-	-	-	-	-	-
BR-M6000	Hydraulic	-	Standard	Standard	-	-	-	-
BR-M820	Hydraulic	-	-	-	-	-	-	-
BR-MT500	Hydraulic	-	-	-	-	-	-	-
BR-MT520	Hydraulic	-	-	-	-	-	-	-
BR-MT400	Hydraulic	-	-	-	-	-	-	-
BR-MT410	Hydraulic	-	-	-	-	-	-	-
BR-MT420	Hydraulic	-	-	-	-	-	-	-
BR-MT200	Hydraulic	-	-	-	-	-	-	-
BR-M375	Mechanical	-	-	-	-	-	-	-
BR-TX805	Mechanical	-	-	-	-	-	-	-
BR-R9170	Hydraulic	-	-	-	-	-	Standard	-
BR-R8070	Hydraulic	-	-	-	-	Standard	-	Standard
BR-R7070	Hydraulic	-	-	-	-	Standard	-	Standard
BR-4770	Hydraulic	-	-	-	-	-	-	Standard
BR-RS785	Hydraulic	-	Standard	Standard	Standard	-	-	-
BR-RS405	Hydraulic	-	-	-	-	Standard	-	Standard
BR-RS305	Mechanical	-	-	-	-	Standard	-	Standard
BR-R317	Mechanical	-	-	-	-	-	-	-
BR-RX810	Hydraulic	-	-	-	-	-	-	Standard
BR-RX400	Hydraulic	-	-	-	-	-	-	Standard
BR-UR300	Hydraulic	-	-	-	-	-	-	-
BR-S7000	Hydraulic	-	-	-	-	-	-	-

Model No.	Type	K03Ti	K04S	K04Ti	L02A	L03A	L04C
		Resin	Metal	Metal	Resin	Resin	Metal
Pad Shape Type		K-type: Narrow type 			L-type: Narrow type 		
Characteristics	Modulation	★★★★★	★★★★☆	★★★★☆	★★★★★	★★★★★	★★★★☆
	Power	★★★★☆	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★★
	Durability	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★★	★★★★★
	Anti-fading	★★★☆☆	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★★
	Silence	★★★★★	★★★☆☆	★★★☆☆	★★★★★	★★★★★	★★★★☆
Pad Radiator fin		-	-	-	✓	✓	✓
High heat insulation		✓	-	-	✓	✓	-
Pad Back plate	Titanium	✓	-	✓	-	-	-
	Aluminum	-	-	-	✓	✓	-
	Stainless steel/Aluminum	-	-	-	-	-	✓
	Stainless steel	-	✓	-	-	-	-
BR-M9100	Hydraulic	Standard	-	Standard	-	-	-
BR-M9110	Hydraulic	Standard	-	Standard	-	-	-
BR-M9120	Hydraulic	-	-	-	-	-	-
BR-M8100	Hydraulic	-	-	-	-	-	-
BR-M8110	Hydraulic	-	Standard	-	-	Option	Option
BR-M8120	Hydraulic	-	-	-	-	-	-
BR-M7100	Hydraulic	-	-	-	-	-	-
BR-M7110	Hydraulic	-	Standard	-	-	Option	Option
BR-M7120	Hydraulic	-	-	-	-	-	-
BR-M8000	Hydraulic	-	-	-	-	-	-
BR-M8020	Hydraulic	-	-	-	-	-	-
BR-M6100	Hydraulic	-	-	-	-	-	-
BR-M6120	Hydraulic	-	-	-	-	-	-
BR-M6000	Hydraulic	-	-	-	-	-	-
BR-M820	Hydraulic	-	-	-	-	-	-
BR-MT500	Hydraulic	-	-	-	-	-	-
BR-MT520	Hydraulic	-	-	-	-	-	-
BR-MT400	Hydraulic	-	-	-	-	-	-
BR-MT410	Hydraulic	-	-	-	-	-	-
BR-MT420	Hydraulic	-	-	-	-	-	-
BR-MT200	Hydraulic	-	-	-	-	-	-
BR-M375	Mechanical	-	-	-	-	-	-
BR-TX805	Mechanical	-	-	-	-	-	-
BR-R9170	Hydraulic	Standard	-	Option	Standard	Standard	Option
BR-R8070	Hydraulic	-	Option	-	Standard	Standard	Option
BR-R7070	Hydraulic	-	Option	-	Standard	Standard	Option
BR-4770	Hydraulic	-	Standard	-	-	-	-
BR-RS785	Hydraulic	-	-	-	-	-	-
BR-RS405	Hydraulic	-	-	-	Option	Option	-
BR-RS305	Mechanical	-	-	-	Option	Option	-
BR-R317	Mechanical	-	-	-	-	-	-
BR-RX810	Hydraulic	-	Option	-	-	-	-
BR-RX400	Hydraulic	-	Option	-	-	-	-
BR-UR300	Hydraulic	-	-	-	-	-	-
BR-S7000	Hydraulic	-	-	-	-	-	-

How to read Model No. C-194

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

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

NOTE

* This part may be used in the rear.

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

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

ARCHIVE

Application table for adapter C-195

For post mount brake caliper

Fork and frame mount type			Disc brake rotor size			
			140 mm (SS)	160 mm (S)	180 mm (M)	203 mm (L)
Post mount	Front	140 mm direct	Direct mount	SM-MA90-F180P / P SM-MA-F180P / P2 (for R785)	-	-
		160 mm direct	-	Direct mount	SM-MA90-F180P / P SM-MA-F180P / P2	SM-MA-F203P / P
		180 mm direct	-	-	Direct mount	SM-MA90-F203P / PM SM-MA-F203P / PM
		203 mm direct	-	-	-	Direct mount
	Rear	140 mm direct	Direct mount	SM-MA90-F180P / P SM-MA-F180P / P2	-	-
		160 mm direct	-	Direct mount	SM-MA90-F180P / P SM-MA-F180P / P2	SM-MA-F203P / P
		180 mm direct	-	-	Direct mount	SM-MA90-F203P / PM SM-MA-F203P / PM
		203 mm direct	-	-	-	Direct mount
International A-standard	Front	-	SM-MA90-F160P / S SM-MA-F160P / S	SM-MA-F180P / S	SM-MA-F203P / S	
	Rear	SM-MA90-R140P / S	SM-MA90-R160P / S SM-MA-R160P / S	SM-MA90-R180P / S SM-MA-R180P / S	SM-MA-R203P / S	
Flat mount 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			Disc brake 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-R160 D/D	-
	ø160/180	Front	-	With Y8N230000* on product	With Y8N230000* on product
		Rear	-	Direct mount	SM-MA-R160 D/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.

NOTE

BR-R9170 and [BR-M9110](#) are not compatible with 180 mm (M) for Rear.

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

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

C-306





ARCHIVE

Compatibility between brake systems

C-466

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

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

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

* POWER MODULATOR must be used for front brake



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

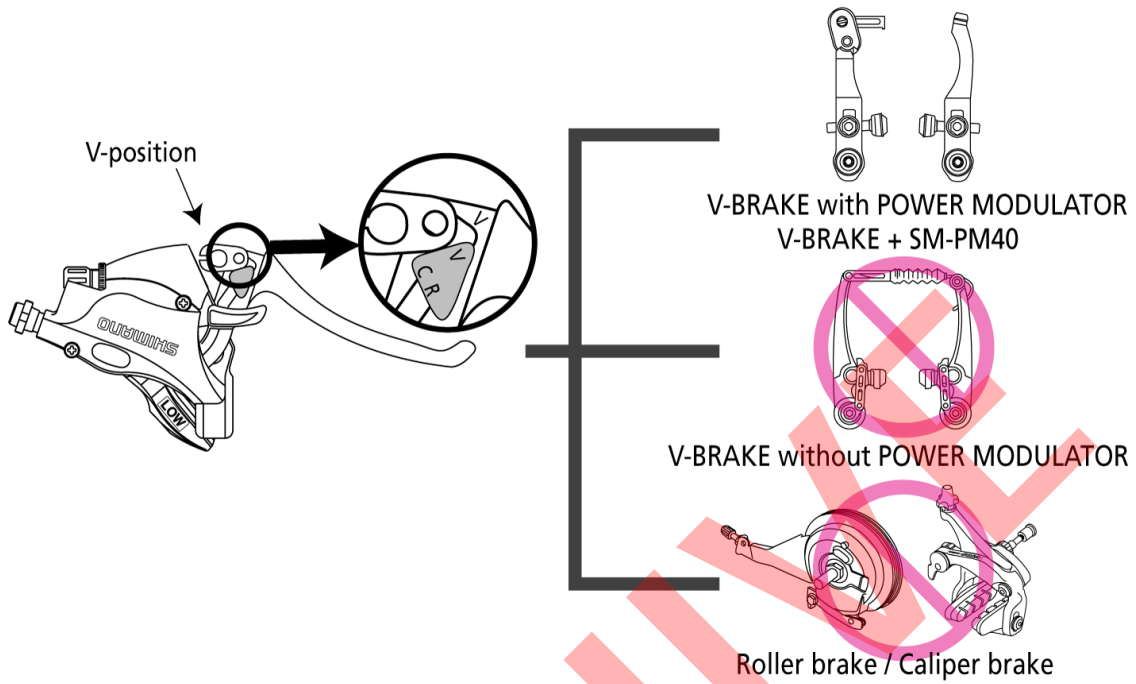
NOTE

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

Brake lever with switch compatibility

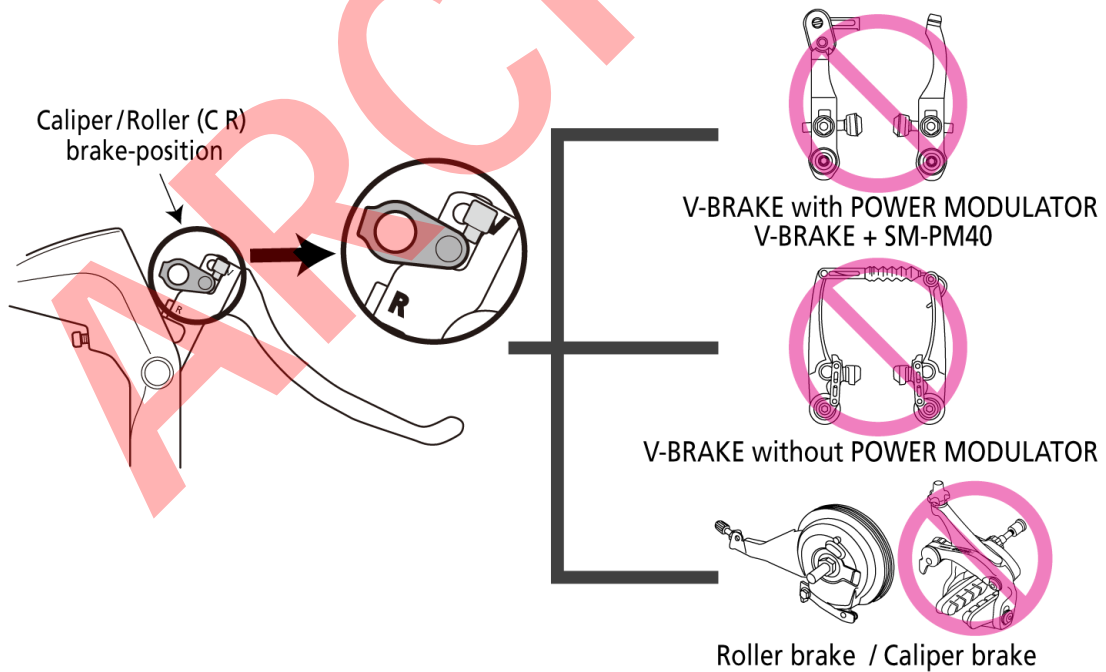
Four finger brake levers such as brake levers are equipped with a switch to change between the V-BRAKE with modulator mode (for example with SM-PM40) and the caliper brake or roller brake mode.

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

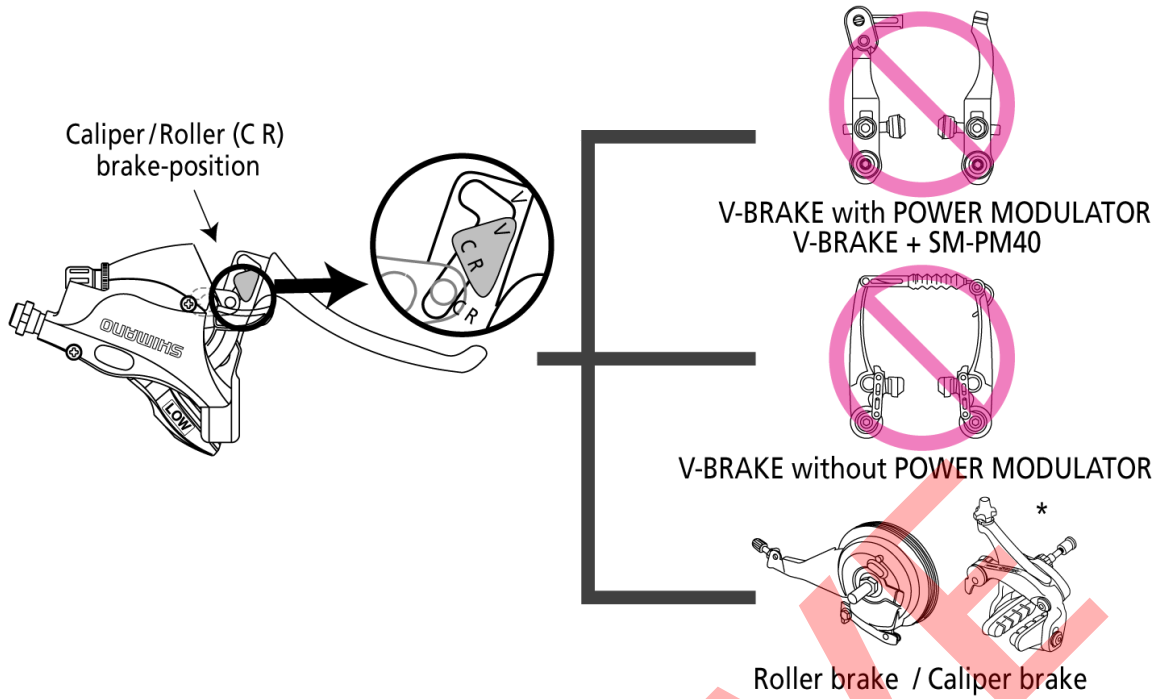


For Caliper brake / Roller brake C-469

BL-C6010



Other models



* 3 types of caliper brake is available (SLR EV / NEW SUPER SLR / SUPER SLR)
Please refer spec hand book for caliper brake compatibility.
Some models can't be used with roller brake, please refer to [C-466](#) for more information.

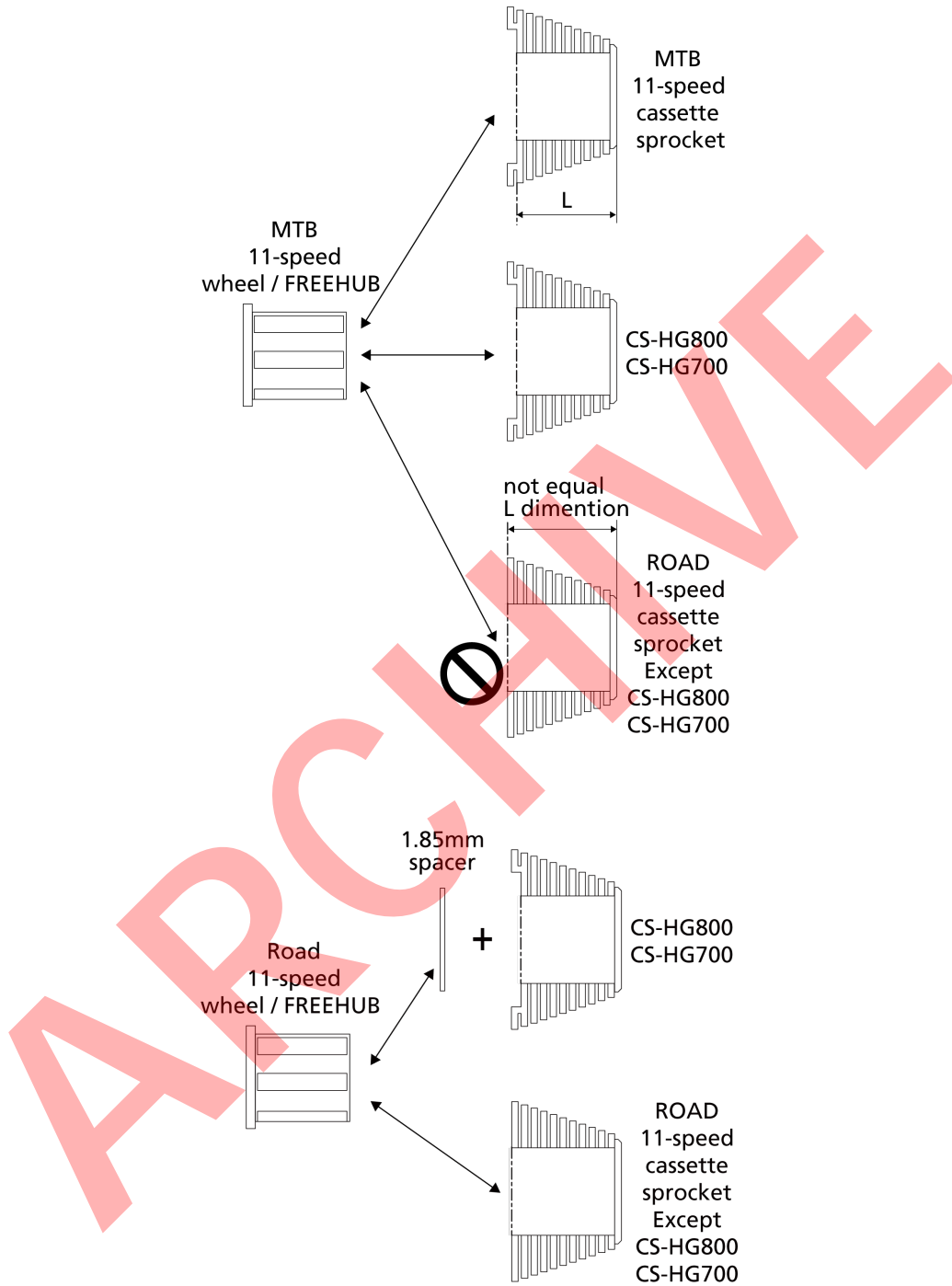
WARNING

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

11-speed FREEHUB compatibility

C-253

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



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

C-254

11-speed C-255

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

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

10-speed C-256

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

9-speed C-257

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

8-speed C-258



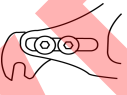

Gear	8-speed		
	RD-R2000		
	SS	GS Front double	GS Front Triple
11-28T	✓	✓	✓
11-30T	✓	✓	✓
11-32T	✓	✓	✓
11-34T	-	✓	-
12-25T	✓	-	✓
13-26T	✓	-	-

7-speed C-259

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

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

C-471

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

A R C

Series	Speed	Brake type	Rear dropout design	Compatibility	CT use	CS / SM-GEAR	FC	CN	additional condition
ALFINE	115 / 85	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	-
			C	OK	-	SM-GEAR	G	J	-
			D	OK	CT-S500	CS-S500	F	I	-
		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	-
NEXUS	85 / 75	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	-
			C	OK	-	SM-GEAR	G	J	-
			D	OK	CT-S500	CS-S500	F	I	-
	85 / 75 / 35 (except 3D)	Hub roller brake V-BRAKE	A	OK	-	SM-GEAR	E	H	-
			B	OK	-	SM-GEAR	E	H	-
			C	OK	-	SM-GEAR	E	H	-
			D	NR	CT-S500 (except 3s)	CS-S500	F	I	*2
		Coaster brake	A	OK	-	SM-GEAR	E	H	-
			B	OK	-	SM-GEAR	E	H	-
			C	OK	-	SM-GEAR	E	H	-
			D	NR	-	-	-	-	-
			D	NR	-	-	-	-	-
			D	NR	-	-	-	-	-
			D	NR	-	-	-	-	-
			D	NR	-	-	-	-	-
	3D	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	-
			C	OK	-	SM-GEAR	G	J	-
			D	OK	-	CS-S500	F	I	-
		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	-
	5S for E-BIKE	Disc brake	A	NR	-	-	-	-	*1
			B	NR	-	-	-	-	-
			C	OK	-	CS-C7000	K	J	-
			D	NR	-	-	-	-	-
Hub roller brake V-BRAKE		A	OK	-	CS-C7000	K	J	-	
		B	OK	-	CS-C7000	K	J	-	
		C	OK	-	CS-C7000	K	J	-	
		D	NR	-	-	-	-	-	
Coaster brake		A	OK	-	CS-C7000	K	J	-	
		B	OK	-	CS-C7000	K	J	-	
		C	OK	-	CS-C7000	K	J	-	
		D	NR	-	-	-	-	-	

*1 Special disc brake mount design is needed.

*2 without chain guard for hub gear side.

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

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

Single gear and chain combination

C-608

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

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-L / RT-EM910-L	YES with conditions (*1)
	Group #2	BR-M9120 / BR-M8120 / BR-M7120 + RT-MT800-L / RT-EM810-L	
	Group #3	BR-M9120 / BR-M8120 / BR-M7120 + SM-RT86-L	
	Group #4	BR-M6120 + SM-RT30-L / RT-EM300-L / SM-RT66-L	
	Group #5	BR-MT520 / BR-MT420 + SM-RT30-L / RT-EM300-L / SM-RT66-L	
HUB (HB, FH, SG)	FH	FH-M**** / MT*** / TX*** series	YES (*SHIMANO can't guarantee assembled wheel performance. Please confirm wheel performance by bike manufacturer.)
	SG	SG-C7000-5D / SG-C7050-5D	
	HB	All	NO
	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	Hose length	RT size
Group #1,2,3,4	Resin pad w/ radiator fin	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)	203 mm (L size)
Group #5	Resin pad w/o radiator fin	2700 mm or less (Tire outer diameter = 660 mm or less)	

Limitation & adjustment

	DIN 79010:2020-02 5.5.2.2.2 Weight factor "c" (*2)	Tire outer diameter	Brake lever adjustment
Group #1	c = 1.5	Follow above table	Brake lever reach adjustment might be required to follow Minimum braking force value of 5.5.1.3
Group #2	c = 1.4		
Group #3	c = 1.3		
Group #4,5	c = 1.1		

(*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 sprocket		Spoke protector model																		
		Flange diameter of rear hub (FH side)																		
		53.8 mm					70.6 mm													
Speed	Model No.	Cassette sprocket low gear No.										Spoke hole No.								
		28T	30T	32T	34T	36T	40T	42T	45T	46T	51T	28H	32H	36H	28H	32H	36H			
12-speed	CS-M9101	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-	-
	CS-M9100	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-	-
	CS-M8100	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-	-
	CS-M7100	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-	-
	CS-M6100	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-
11-speed	CS-M9001	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
	CS-M8000	-	-	-	-	-	✓	✓	-	✓	-	-	-	-	-	-	-	-	-	-
	CS-M7000	-	-	-	-	-	✓	✓	-	✓	-	-	-	-	-	-	-	-	-	-
	CS-M5100	-	-	-	-	-	-	✓	-	-	✓	-	-	-	-	-	-	-	-	-
10-speed	CS-M4100	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-	-	-
	CS-M771-10	-	-	✓	✓	✓	-	-	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76	CP-FH76
	CS-HG81-10	-	-	-	✓	✓	-	-	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	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	CP-FH76
	CS-HG300-9	-	-	-	-	✓	-	-	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76	CP-FH76
	CS-HG201-9	-	-	✓	✓	-	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76	CP-FH76
	CS-HG200-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CS-HG400-9	✓	-	-	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	CP-FH76	CP-FH76	CP-FH76
	CS-HG300-9	✓	-	-	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	CP-FH76	CP-FH76	CP-FH76
8-speed	CS-ROAD	✓	-	-	-	-	-	-	-	-	-	-	-	CP-FH08	CP-FH35	CP-FH31	-	-	-	-
	CS-HG60-81	-	-	-	✓	-	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	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	CP-FH76
	CS-HG41-8	-	✓	-	-	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	-	-
	CS-HG31-8	-	-	✓	✓	-	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76	CP-FH76
	CS-HG200-8	-	-	✓	-	-	-	-	-	-	-	-	-	CP-WH12	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76	CP-FH76
7-speed	CS-HG41-7	✓	-	-	-	-	-	-	-	-	-	-	-	CP-FH40	CP-FH35	CP-FH50	-	-	-	-
	CS-HG200-7	-	-	✓	-	-	-	-	-	-	-	-	-	-	CP-FH56	CP-FH53	-	CP-FH76	CP-FH76	CP-FH76
	CS-HG200-7	✓	-	-	-	-	-	-	-	-	-	-	-	-	CP-FH35	CP-FH50	-	-	-	-

Speed	Model No.	Cassette sprocket										Spoke protector model			
		Cassette sprocket low gear No.										WH-M8100	WH-M8120	WH-MT620	WH-MT601
		28T	30T	32T	34T	36T	40T	42T	45T	46T	51T				
12-speed	CS-M9101	-	-	-	-	-	-	-	✓	-	✓	CP-WH28	CP-WH29 (for 10-51T) CP-WH32 (for 10-45T)	CP-WH27 (for 10-51T) CP-WH31 (for 10-45T)	CP-WH27 (for 10-51T) CP-WH31 (for 10-45T)
	CS-M9100	-	-	-	-	-	-	-	✓	-	✓				
	CS-M8100	-	-	-	-	-	-	-	✓	-	✓				
	CS-M7100	-	-	-	-	-	-	-	✓	-	✓				
	CS-M6100	-	-	-	-	-	-	-	-	-	✓				
11-speed	CS-M9001	-	-	-	-	-	✓	-	-	-	-	CP-WH17-A	-	-	-
	CS-M8000	-	-	-	-	-	✓	✓	-	✓	-	CP-WH17-A	-	-	-
	CS-M7000	-	-	-	-	-	✓	✓	-	✓	-	CP-WH17-A	-	-	-
	CS-M5100	-	-	-	-	-	-	✓	-	-	✓	-	-	-	-
10-speed	CS-M4100	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-
	CS-M771-10	-	-	✓	✓	✓	-	-	-	-	-	-	-	-	-
	CS-HG81-10	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-
	CS-HG500-10	-	-	-	-	-	-	✓	-	-	-	-	-	-	-
9-speed	CS-HG400-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CS-HG300-9	-	-	✓	✓	✓	-	-	-	-	-				
	CS-HG201-9	-	-	-	-	-	-	-	-	-	-				
	CS-HG200-9	-	-	-	-	-	-	-	-	-	-				
	CS-HG400-9 CS-HG300-9	✓	-	-	-	-	-	-	-	-	-				

Speed	Model No.	Cassette sprocket										Spoke protector model		
		Cassette sprocket low gear No.										WH-MT501	WH-M9000 WH-M9020 WH-M8000 WH-M8020 WH-M8000-B WH-M8020-B	WH-MT600
		28T	30T	32T	34T	36T	40T	42T	45T	46T	51T			
12-speed	CS-M9101	-	-	-	-	-	-	-	✓	-	✓	CP-WH27 (for 10-51T) CP-WH31 (for 10-45T)	-	-
	CS-M9100	-	-	-	-	-	-	-	✓	-	✓			
	CS-M8100	-	-	-	-	-	-	-	✓	-	✓			
	CS-M7100	-	-	-	-	-	-	-	✓	-	✓			
	CS-M6100	-	-	-	-	-	-	-	-	-	✓			
11-speed	CS-M9001	-	-	-	-	-	✓	-	-	-	-	-	CP-WH17-A	CP-WH26
	CS-M8000	-	-	-	-	-	✓	✓	-	✓	-	-	CP-WH17-A	CP-WH26
	CS-M7000	-	-	-	-	-	✓	✓	-	✓	-	-	CP-WH17-A	CP-WH26
	CS-M5100	-	-	-	-	-	-	✓	-	-	✓	-	-	-
10-speed	CS-M4100	-	-	-	-	-	-	✓	-	✓	-	-	-	-
	CS-M771-10	-	-	✓	✓	✓	-	-	-	-	-	-	-	CP-WH16
	CS-HG81-10	-	-	-	✓	✓	-	-	-	-	-	-	-	CP-WH16
	CS-HG500-10	-	-	-	-	-	-	✓	-	-	-	-	-	-
9-speed	CS-HG400-9	-	-	-	-	-	-	-	-	-	-	-	-	-
	CS-HG300-9	-	-	✓	✓	✓	-	-	-	-	-			
	CS-HG201-9	-	-	-	-	-	-	-	-	-	-			
	CS-HG200-9	-	-	-	-	-	-	-	-	-	-			
	CS-HG400-9 CS-HG300-9	✓	-	-	-	-	-	-	-	-	-			

Speed	Model No.	Cassette sprocket										Spoke protector model		
		Cassette sprocket low gear No.										WH-MT500	WH-MT66-29	WH-MT35 WH-MT35-275 WH-MT35-29 WH-MT15-A-275 WH-MT15-A-29
		28T	30T	32T	34T	36T	40T	42T	45T	46T	51T			
12-speed	CS-M9101	-	-	-	-	-	-	-	✓	-	✓	-	-	-
	CS-M9100	-	-	-	-	-	-	-	✓	-	✓	-	-	-
	CS-M8100	-	-	-	-	-	-	-	✓	-	✓	-	-	-
	CS-M7100	-	-	-	-	-	-	-	✓	-	✓	-	-	-
11-speed	CS-M6100	-	-	-	-	-	-	-	-	-	✓	-	-	-
	CS-M9001	-	-	-	-	-	✓	-	-	-	-	-	-	-
	CS-M8000	-	-	-	-	-	✓	✓	-	✓	-	-	-	-
	CS-M7000	-	-	-	-	-	✓	✓	-	✓	-	-	-	-
10-speed	CS-M5100	-	-	-	-	-	-	✓	-	-	✓	-	-	-
	CS-M4100	-	-	-	-	-	-	✓	-	✓	-	-	-	-
	CS-M771-10	-	-	✓	✓	✓	-	-	-	-	-	CP-WH21	CP-WH16	CP-WH12
	CS-HG81-10	-	-	-	✓	✓	-	-	-	-	-	CP-WH21	CP-WH16	CP-WH12
9-speed	CS-HG500-10	-	-	-	-	-	-	✓	-	-	-	CP-WH21	-	CP-WH19
	CS-HG50-10	-	-	-	-	✓	-	-	-	-	-	CP-WH21	CP-WH16	CP-WH12
	CS-HG400-9	-	-	✓	✓	✓	-	-	-	-	-	-	CP-WH16	CP-WH12
	CS-HG300-9	-	-	✓	✓	✓	-	-	-	-	-	-	CP-WH16	CP-WH12
	CS-HG201-9	-	-	✓	✓	✓	-	-	-	-	-	-	CP-WH16	CP-WH12
CS-HG200-9	-	-	✓	✓	✓	-	-	-	-	-	-	CP-WH16	CP-WH12	
CS-HG400-9	✓	-	-	-	-	-	-	-	-	-	-	CP-WH16	CP-WH08	
CS-HG300-9	✓	-	-	-	-	-	-	-	-	-	-	CP-WH16	CP-WH08	

ARCHIVE

Model No.	Cassette Sprocket total gear No.			Cassette Sprocket low gear No.						
	9-speed	10-speed	11-speed**	23T	25T	27T	28T	30T	32T*	34T
WH-R9170-C60 WH-R9170-C40	-	-	✓	-	-	-	-	CP-W1460	-	-
	-	✓	-	-	-	-	-	CP-W1460	-	-
WH-R9100-C60 WH-R9100-C40	-	-	✓	-	-	-	-	CP-W124	-	-
	-	✓	-	-	-	-	-	CP-W124	-	-
WH-R9100-C24	-	-	✓	CP-WH23	-	-	-	CP-W120	-	-
	-	✓	-	-	-	-	-	CP-W020	-	-
WH-RS770-C30	-	-	✓	-	-	-	-	CP-W1460	-	CP-W1460
	-	✓	-	-	-	-	-	CP-W1460	-	-
WH-RS700-C30	-	-	✓	-	-	-	-	CP-W124	-	CP-W124
	-	✓	-	-	-	-	-	CP-W124	-	-
WH-RS500 WH-RS300 WH-RS11	-	-	✓	CP-WH23			-	CP-W120	-	-
WH-RS11	-	✓	-	CP-W020						-
WH-9000-C24-TU WH-RS330-CL	-	-	✓	CP-W184			-	CP-W124	-	-
	-	✓	-	CP-W024						-
WH-RX830	-	✓	✓	-	-	-	-	CP-W1220	-	CP-WH14 CP-WH14A
WH-RX31	-	✓	✓	-	-	-	-	CP-W122	-	-
WH-RS100	-	✓	✓	-	-	-	-	CP-WH24	-	CP-FH53
WH-RS010-CL	-	✓	✓	-	-	-	-	CP-WH24	-	CP-FH53
WH-R501 WH-R501-A	✓	✓	-	CP-FH06	CP-FH31	CP-FH46	CP-WH24	-	-	-
WH-RS170	-	-	✓	CP-FH08			-	CP-WH12	-	-
	-	✓	-	CP-FH40 CP-FH41	-	CP-FH40 CP-FH41	CP-WH12	CP-WH12	CP-WH12	CP-WH12
WH-RS171	-	-	✓	CP-FH08	-	-	CP-WH12	-	-	-
	-	✓	-	CP-FH40 CP-FH41	-	CP-FH40 CP-FH41	CP-WH12	CP-WH12	CP-WH12	CP-WH12
WH-RX010-CL	-	-	✓	CP-FH08			-	CP-WH12	-	-
	-	✓	-	CP-FH40 CP-FH41	-	CP-FH40 CP-FH41	CP-WH12	CP-WH12	CP-WH12	CP-WH12
WH-RX010	✓	✓	-	CP-FH08			CP-FH40 CP-FH41	CP-WH12	-	-
WH-U5000	-	✓	✓	-	-	-	-	CP-W122	-	-
WH-RS370	-	✓	✓	-	-	-	-	CP-WH12	-	-
	-	✓	-	CP-WH41			CP-WH12	-	-	-
WH-RX570	-	✓	✓	-	-	-	-	CP-WH30	-	-
	-	✓	-	CP-WH41			CP-WH12	-	-	-

* For compact crank set

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

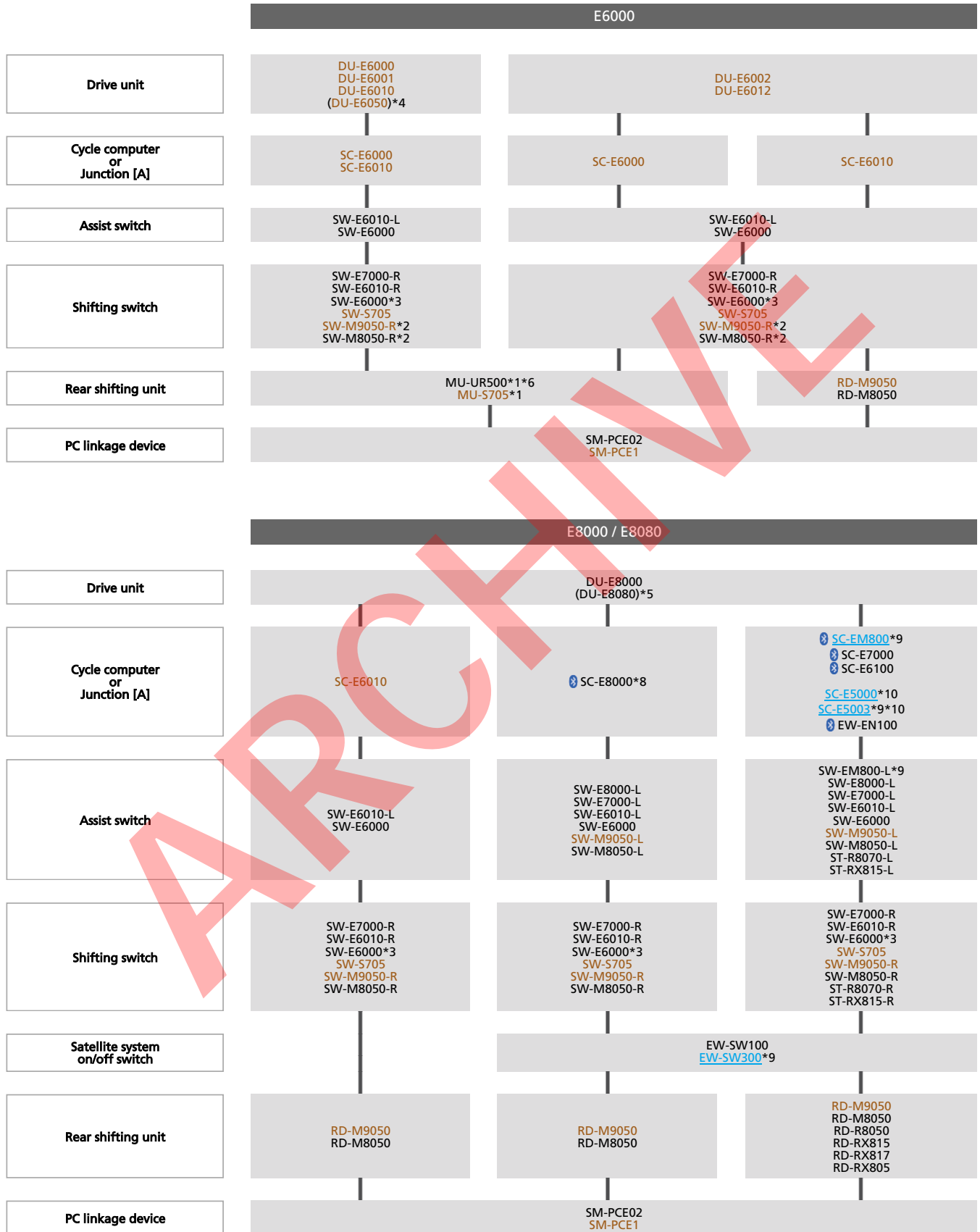
Spoke protector for Road

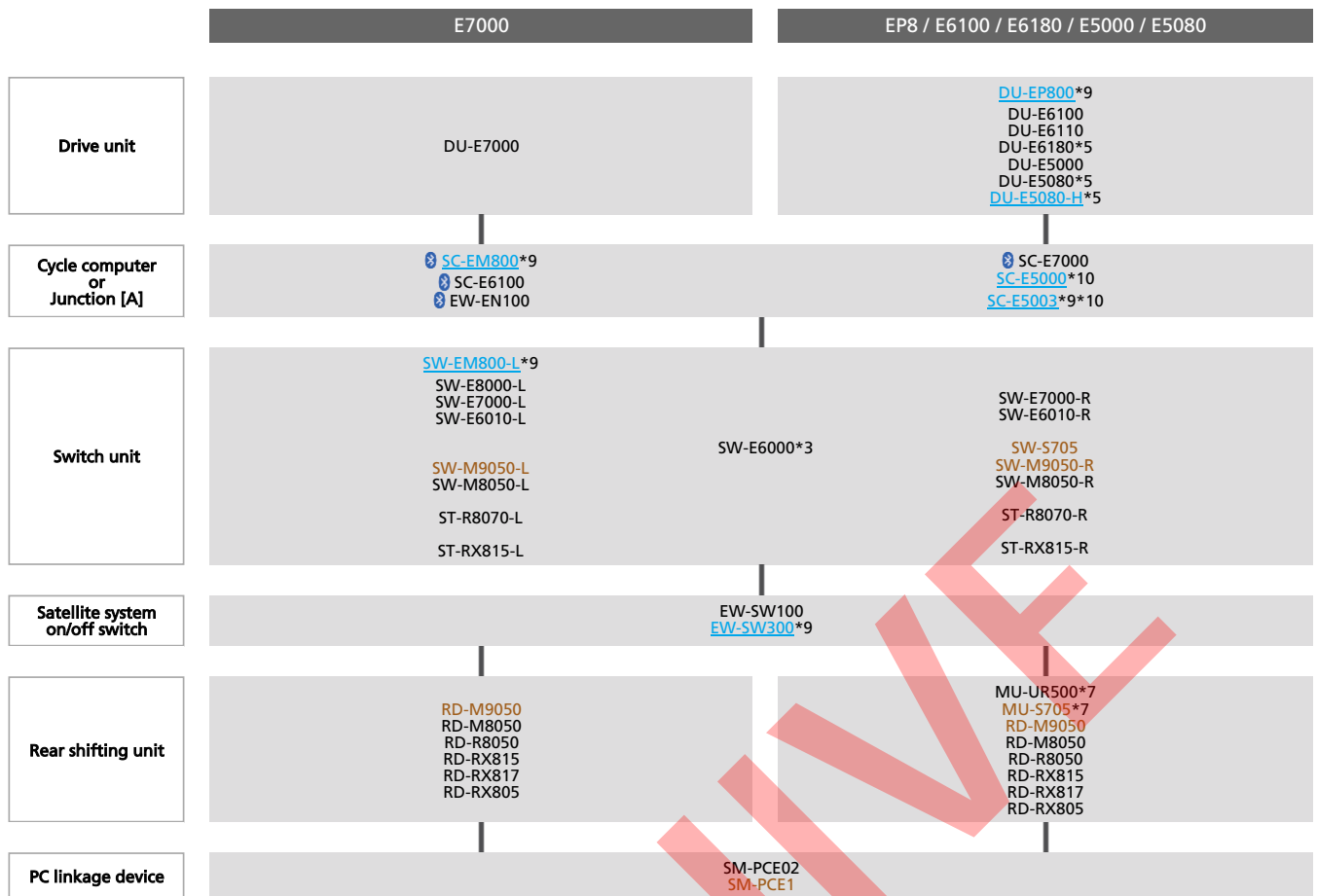
Speed	Model No.	Cassette sprocket low gear No.										Spoke holes No.			
		21T	23T	24T	25T	26T	27T	28T	30T	32T	34T	24H	28H	32H	36H
8, 9, 10-speed	Road	✓	✓	-	✓	-	-	-	-	-	-	CP-FH06	CP-FH08	CP-FH05	CP-FH06
		-	-	-	-	✓	-	-	-	-	-	CP-FH31	CP-FH08	CP-FH35	CP-FH31
		-	-	-	-	-	✓	✓	-	-	-	CP-FH31	CP-FH08	CP-FH35	CP-FH31
		-	-	-	-	-	-	-	✓	-	-	-	-	CP-FH45	CP-FH46
7-speed	CS-HG200-7	-	-	-	-	-	-	✓	-	-	-	-	-	CP-FH35	CP-FH50
	MF-TZ500-7	-	-	-	-	-	-	✓	-	-	-	-	-	-	CP-HG22/ MF-TZ500-7-CP/ MF-TZ21-CP
	MF-TZ510-7	-	-	-	-	-	-	✓	-	-	-	-	-	-	CP-HG22/ MF-TZ500-7-CP/ MF-TZ21-CP
	MF-TZ21	-	-	-	-	-	-	✓	-	-	-	-	-	-	CP-HG22/ MF-TZ500-7-CP/ MF-TZ21-CP

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

E-BIKE system (with E-TUBE PROJECT ver.4.0.2)

C-525





Limitation of function

- *1 Full automatic shift is available only with 8-speed internal gear hub system (Not available with Rear Derailleur).
- *2 Not support full automatic shift.
- *3 Need to change Switch setting by E-TUBE PROJECT.
- *4 North American market only.
- *5 Japanese market only.
- *6 Compatible with 11-speed and 8-speed internal geared hub system only.
- *7 Full automatic shift is available only with 8 speed and 5 speed internal gear hub system (Not available with Rear Derailleur)
- *8 Not available in Japan market.
- *9 This unit has SD300 port, and needs [EW-AD305](#) for connection with SD50 port unit.
- *10 Only for ø22.2 handlebar. Drop handle bar is unavailable.

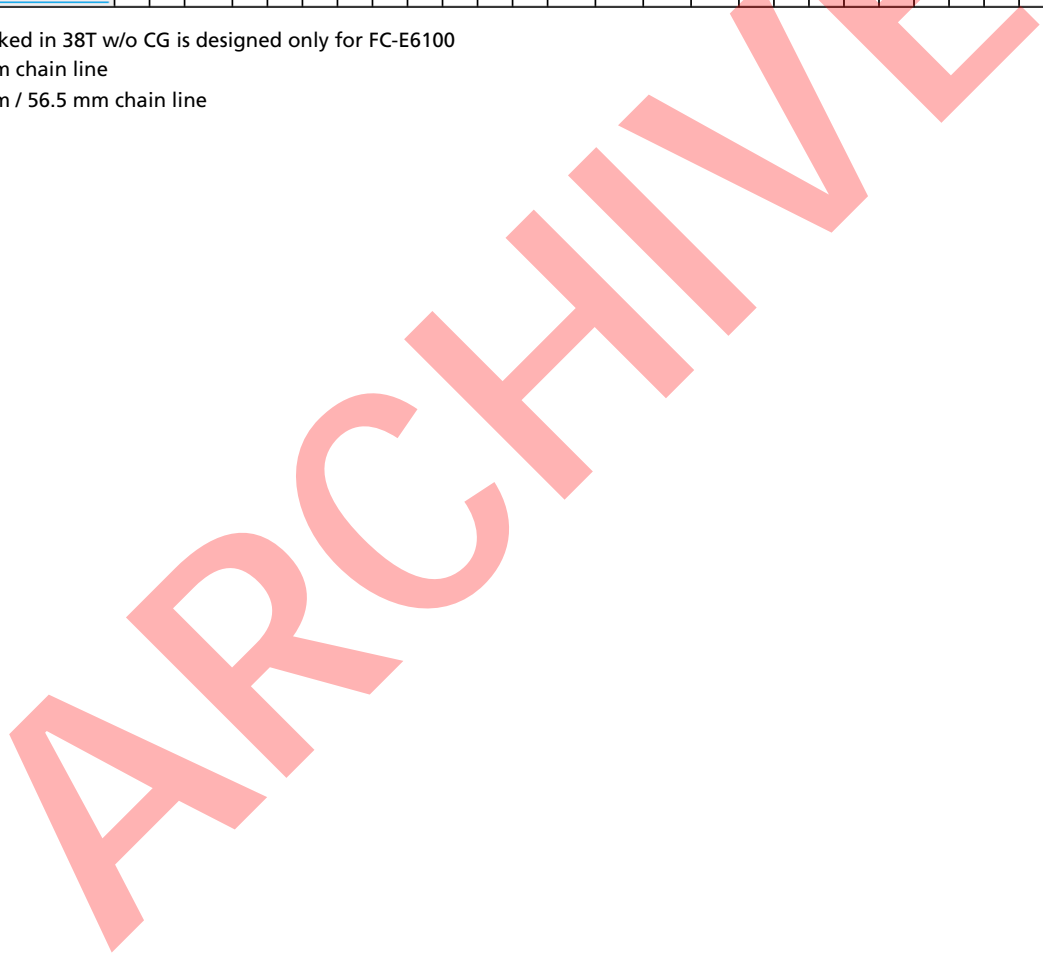
SHIMANO STEPS front drive train compatibility

		Chainring										Chain device				Crank arm												
		SM-CRE50	SM-CRE60	SM-CRE61	SM-CRE70	SM-CRE70-B	SM-CRE70-12	SM-CRE70-12-B	SM-CRE80	SM-CRE80-B	SM-CRE80-12-B	SM-CRE80-12-SB	SM-CRE80-R	SM-CDE70	SM-CDE80 (Frame mount)	SM-CDE80	CD-EM800	FC-E5000	FC-E5010	FC-E6000	FC-E6010	FC-E6100	FC-E8000	FC-E8050	FC-M8050	FC-M8150	FC-EM900	FC-EM600
Drive Unit	DU-EP800	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓*2	✓	✓*2	✓*3	-	-	-	-	-	-	-	-	-	✓	✓	✓
	DU-E8000	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓*2	✓	✓*2	✓*3	-	-	-	-	✓	✓	✓	✓	-	-	-
	DU-E8080	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓*2	✓	✓*2	✓*3	-	-	-	-	✓	✓	✓	✓	-	-	-
	DU-E7000	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓*2	✓	✓*2	✓*3	-	-	-	-	✓	✓	✓	✓	-	-	-
	DU-E6100	-	-	✓*1	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-
	DU-E6110	-	-	✓*1	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-
	DU-E6180	-	-	✓*1	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-
	DU-E6002	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	-
	DU-E6012	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	-
	DU-E5000	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	-
DU-E5080	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	-	
DU-E5080-H	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	-	

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

*2 Only for 53 mm chain line

*3 Only for 53 mm / 56.5 mm chain line



SHIMANO STEPS rear drive train compatibility

EP8 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
Rear derailleur system	12-speed	SM-CRE80-12-SB 34T / 36T	-	SM-CDE80	-	CS-M9101-12 CS-M9100-12 CS-M8100-12 CS-M7100-12 CS-M6100-12	CN-M9100 CN-M8100 CN-M7100 CN-M6100
		SM-CRE80-12-B 34T / 36T / 38T	-	SM-CDE80 SM-CDE70			
		SM-CRE70-12-B 36T	-	-			
		SM-CRE70-12 42T	Double	-			
	11-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)			
		SM-CRE80 34T / 38T	-	SM-CDE80 (Frame mount)			
		SM-CRE80 44T	Double	-			
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 (Frame mount)			
		SM-CRE70 38T	Double	-			
	10-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 10-speed CS	CN-E6090-10
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)			
		SM-CRE80 34T / 38T	-	-			
		SM-CRE80 44T	Double	-			
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	Double	-			
	9-speed	SM-CRE70-B 34T	-	SM-CDE70	-	MTB 9-speed CS	CN-E6070-9
		SM-CRE70 38T	-	SM-CDE70			
		SM-CRE70 38T	Double	-			
DI2 Internal geared hub	11-speed	SM-CRE61	Single / w/o	-	-	SM-GEAR	8-speed
	8-speed		Single / w/o	-	CT-S510	SM-GEAR	8-speed
	5-speed		Single / w/o	-	-	CS-C7000	8-speed
Mechanical Internal geared hub	ALFINE 11-speed 8-speed	SM-CRE61	Single / w/o	-	-	SM-GEAR	8-speed
			Single / w/o	-	CT-S510	SM-GEAR	8-speed
	NEXUS 8-speed	SM-CRE61	Single / w/o w/o	-	-	SM-GEAR	8-speed CN-NX10
			Single / w/o	-	CT-S510	SM-GEAR	8-speed
	NEXUS 7-speed	SM-CRE61	Single / w/o w/o	-	-	SM-GEAR	8-speed CN-NX10
			Single / w/o	-	CT-S510	SM-GEAR	8-speed
	NEXUS 5-speed	SM-CRE61	Single w/o	-	-	CS-C7000	8-speed CN-NX10
			Single w/o	-	-	-	-

E8000 / E8080 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
Rear derailleur system	12-speed	SM-CRE80-12-SB 34T / 36T	-	SM-CDE80	-	CS-M9101-12 CS-M9100-12 CS-M8100-12 CS-M7100-12 CS-M6100-12	CN-M9100 CN-M8100 CN-M7100 CN-M6100
		SM-CRE80-12-B 34T / 36T / 38T	-	SM-CDE80 SM-CDE70			
		SM-CRE70-12-B 36T	-	-			
		SM-CRE70-12 42T	Double	-			
	11-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11
		SM-CRE70-B 34T	-	-			
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)		11-speed CS	
		SM-CRE70 38T	-	-		MTB 11-speed CS	
		SM-CRE80 34T / 38T	-	SM-CDE80 (Frame mount)			
		SM-CRE80 44T	Double	-			
		SM-CRE70 38T	Double	-		-	
	10-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 10-speed CS	CN-E6090-10
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)		10-speed CS	
		SM-CRE80 34T / 38T	-	-		MTB 10-speed CS	
		SM-CRE80 44T	Double	-			
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 SM-CDE70		-	
		SM-CRE70 38T	Double	-		-	
	9-speed	SM-CRE70-B 34T	-	SM-CDE70	-	MTB 9-speed CS	CN-E6070-9
		SM-CRE70 38T	-	SM-CDE70			
		SM-CRE70 38T	Double	-			

ARCHIVE

E7000 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
Rear derailleur system	12-speed	SM-CRE80-12-SB 34T / 36T	-	SM-CDE80	-	CS-M9101-12 CS-M9100-12 CS-M8100-12 CS-M7100-12 CS-M6100-12	CN-M9100 CN-M8100 CN-M7100 CN-M6100
		SM-CRE80-12-B 34T / 36T / 38T	-	SM-CDE80 SM-CDE70			
		SM-CRE70-12-B 36T	-	-			
		SM-CRE70-12 42T	Double	-			
	11-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)		11-speed CS	
		SM-CRE80 34T / 38T	-	SM-CDE80 (Frame mount)		MTB 11-speed CS	
		SM-CRE80 44T	Double	-			
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 (Frame mount)			
		SM-CRE70 38T	Double	-			
	10-speed	SM-CRE80-B 34T / 38T	-	SM-CDE80 SM-CDE70	-	MTB 10-speed CS	CN-E6090-10
		SM-CRE80-R 47T	-	SM-CDE80 (Frame mount)		10-speed CS	
		SM-CRE80 34T / 38T	-				
		SM-CRE80 44T	Double	-		MTB 10-speed CS	
		SM-CRE70-B 34T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	-	SM-CDE80 SM-CDE70			
		SM-CRE70 38T	Double	-			
	9-speed	SM-CRE70-B 34T	-	SM-CDE70	-		MTB 9-speed CS
		SM-CRE70 38T	-	SM-CDE70			
		SM-CRE70 38T	Double	-			

E6100 / E6180 series

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

E6000 series

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

E5000 / E5080 series

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

For Hydraulic Disc brake

I-SPEC EV type brake lever

Model No.	DI2 shifting switch		SHIMANO STEPS switch unit and cycle computer						
	SW-M9050	SW-M8050	SW-EM800-L	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SC-E5000 *1	SC-E5003 *1
BL-M9100	-	-	✓	-	✓	✓	✓	✓	✓
BL-M9120	-	-	✓	-	✓	✓	✓	✓	✓
BL-M8100	-	-	✓	-	✓	✓	✓	✓	✓
BL-M7100	-	-	✓	-	✓	✓	✓	✓	✓
BL-M6100	-	-	✓	-	✓	✓	✓	✓	✓
BL-M4100	-	-	✓	-	✓	✓	✓	✓	✓

*1: I-SPEC EV compatible spec only

I-SPEC II type brake lever

Model No.	DI2 shifting switch		SHIMANO STEPS switch unit and cycle computer						
	SW-M9050	SW-M8050	SW-EM800-L	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SC-E5000	SC-E5003
BL-M9000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-M9020	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-M8000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-T8100	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-T8000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-M7000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-M6000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-T6000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-RS600	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT500	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT501	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-U5000	-	-	✓	-	✓	✓	✓	✓	✓
BL-S7000	✓	✓	✓	✓	✓	✓	✓	✓	✓

Other clamp band type brake lever

Model No.	DI2 shifting switch		SHIMANO STEPS switch unit and cycle computer						
	SW-M9050	SW-M8050	SW-EM800-L	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SC-E5000	SC-E5003
BL-MT402-3A	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT401	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT400	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT201	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-MT200	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-T445	✓	✓	✓	✓	✓	✓	✓	✓	✓

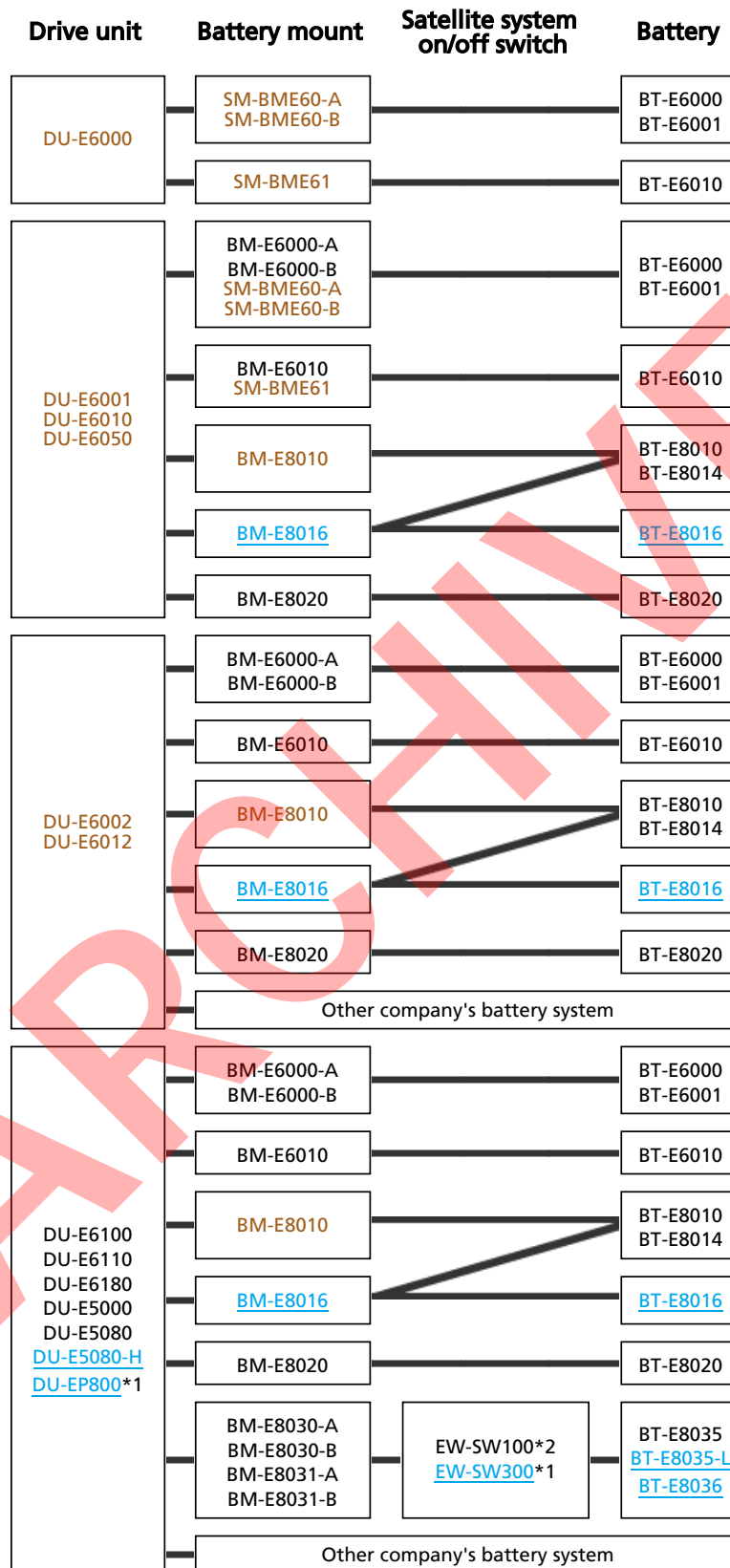
Brake lever for mechanical brake (Mechanical disc brake / V-BRAKE / Caliper brake / Cantilever brake)

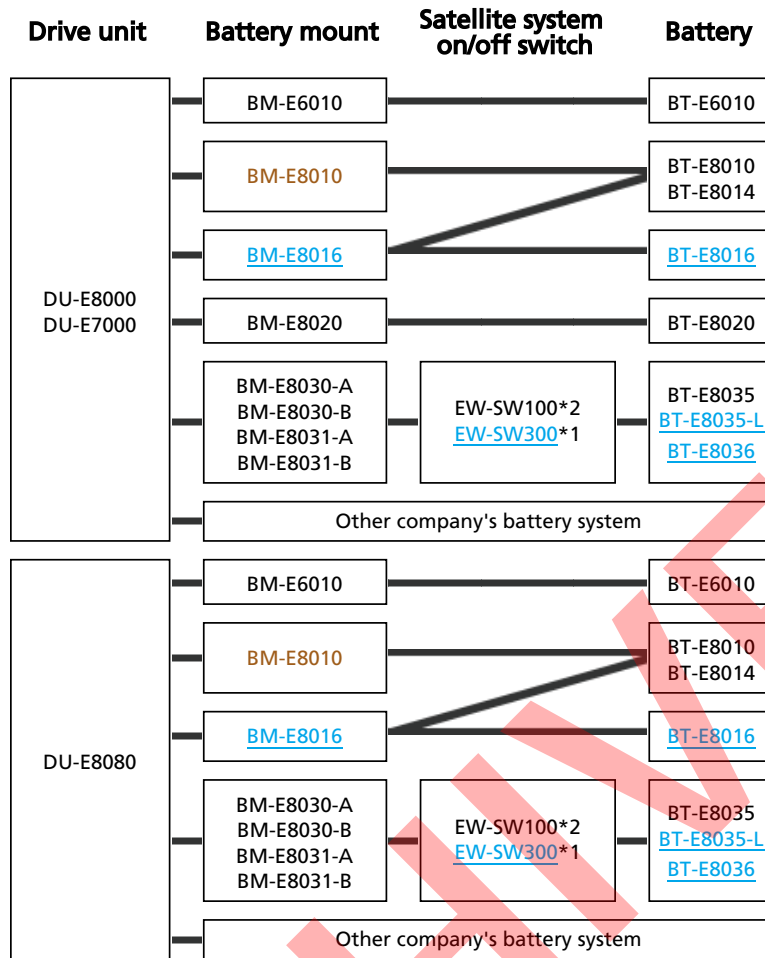
Refer to SPEC HANDBOOK for compatible brake type.

Model No.	DI2 shifting switch		SHIMANO STEPS switch unit and cycle computer						
	SW-M9050	SW-M8050	SW-EM800-L	SW-E8000-L	SW-E7000	SW-E6010	SW-E6000	SC-E5000	SC-E5003
BL-T610	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-T611	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-T4000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-T4010	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-C6010	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-4700	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-R3000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-R2000	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-R780	✓	✓	✓	✓	✓	✓	✓	✓	✓
BL-R550	✓	✓	✓	✓	✓	✓	✓	✓	✓

Battery

Batteries shipped in the country / region are different.



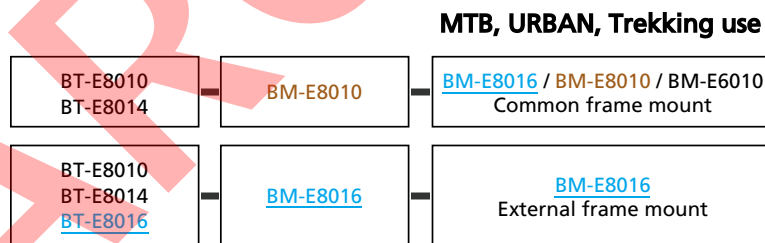


Limitation of function

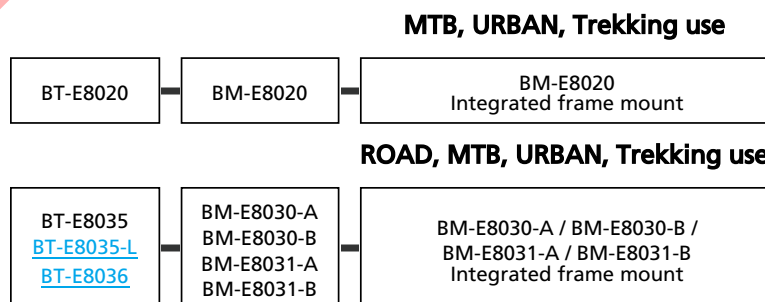
*1: This unit has SD300 port, and needs [EW-AD305](#) for connection to SD50 port unit.

*2: Can't use with [SC-E6010](#)

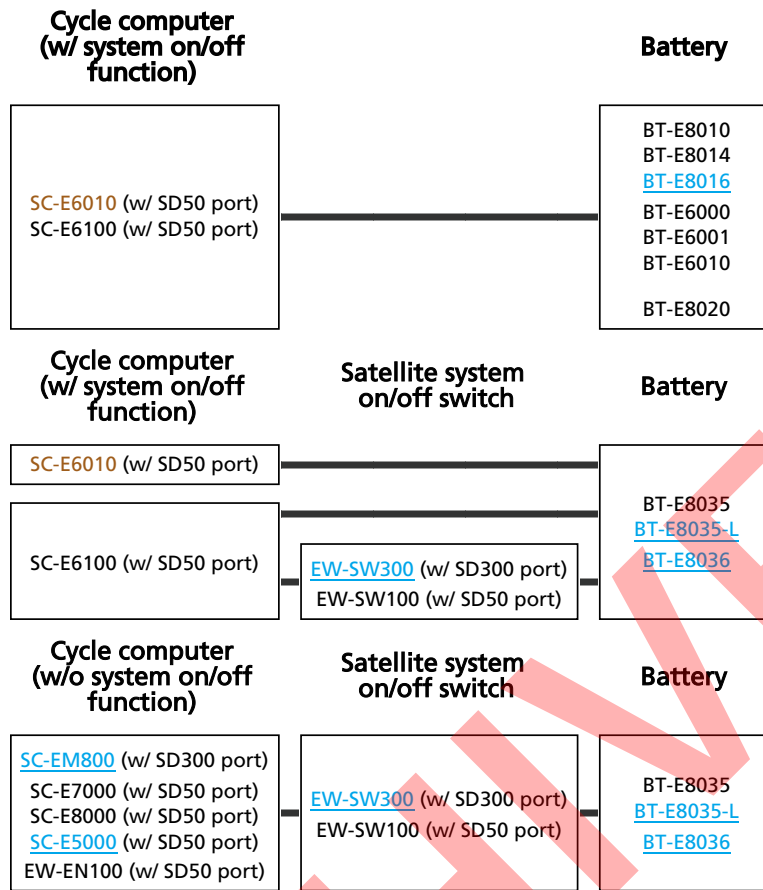
External frame mount type



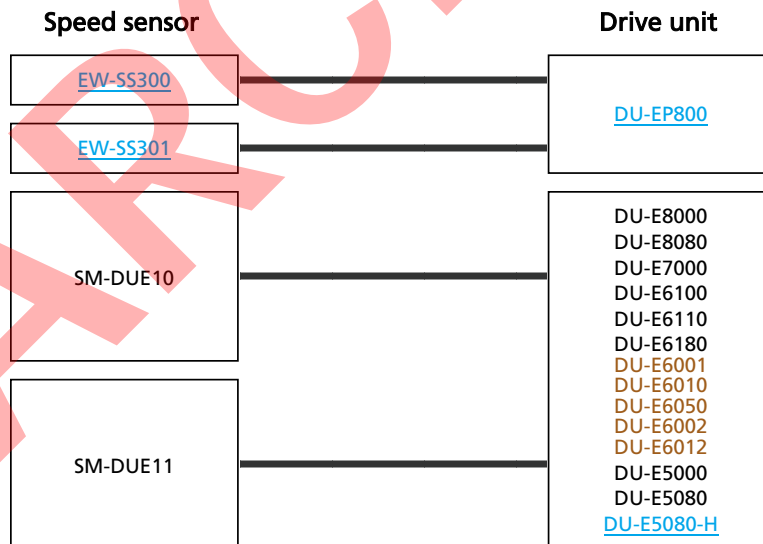
Integrated frame mount type

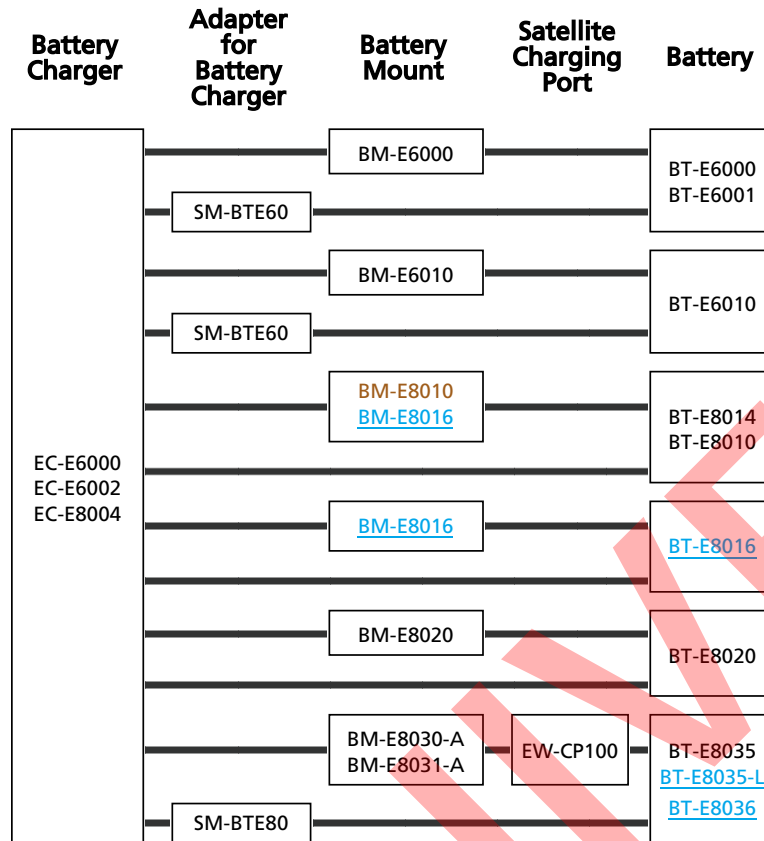


System on/off function compatibility



Speed sensor and drive unit compatibility

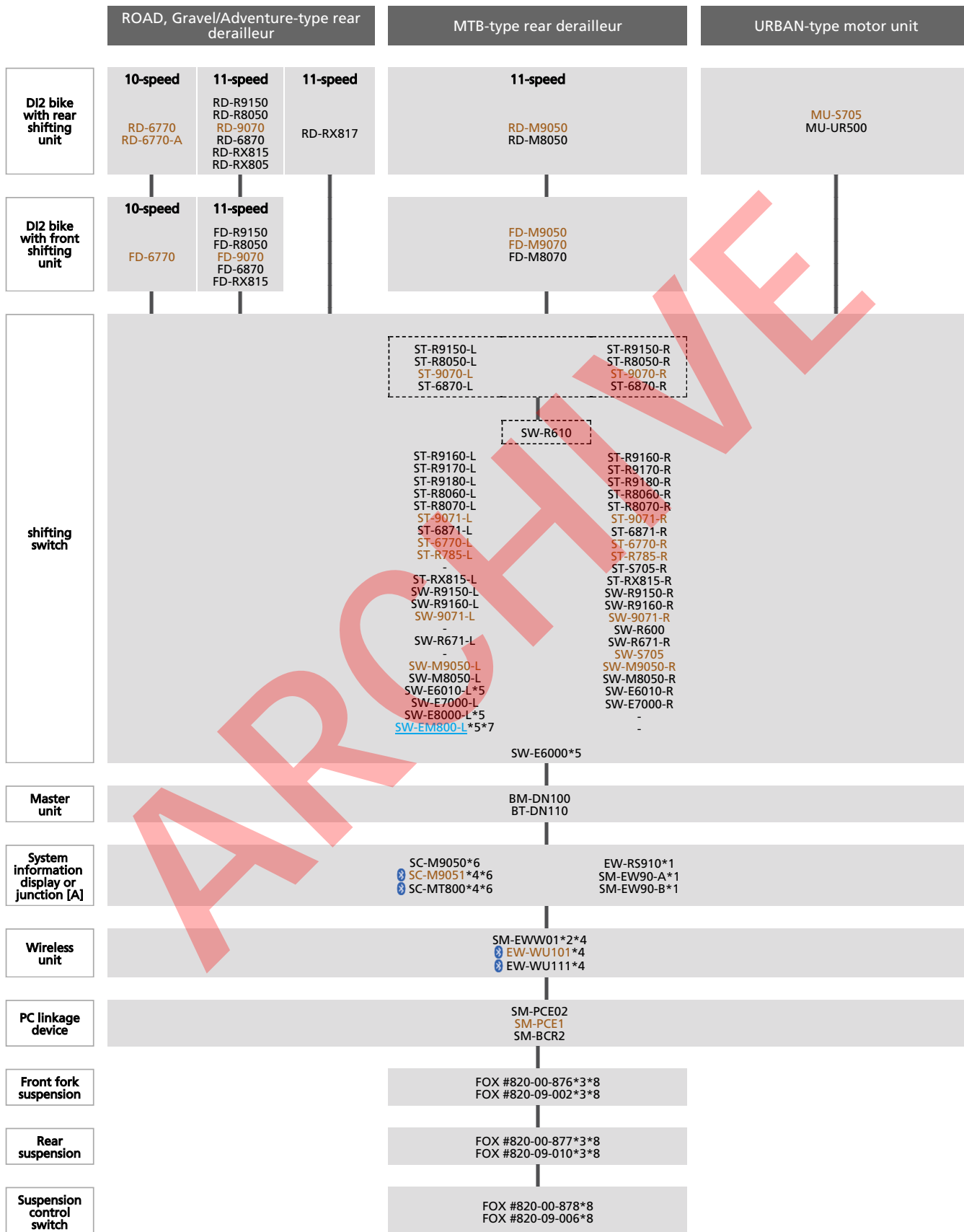




ARCHIVED

E-TUBE compatibility chart with E-TUBE PROJECT ver.4.0.2

DI2 with BM-DN100 / BT-DN110

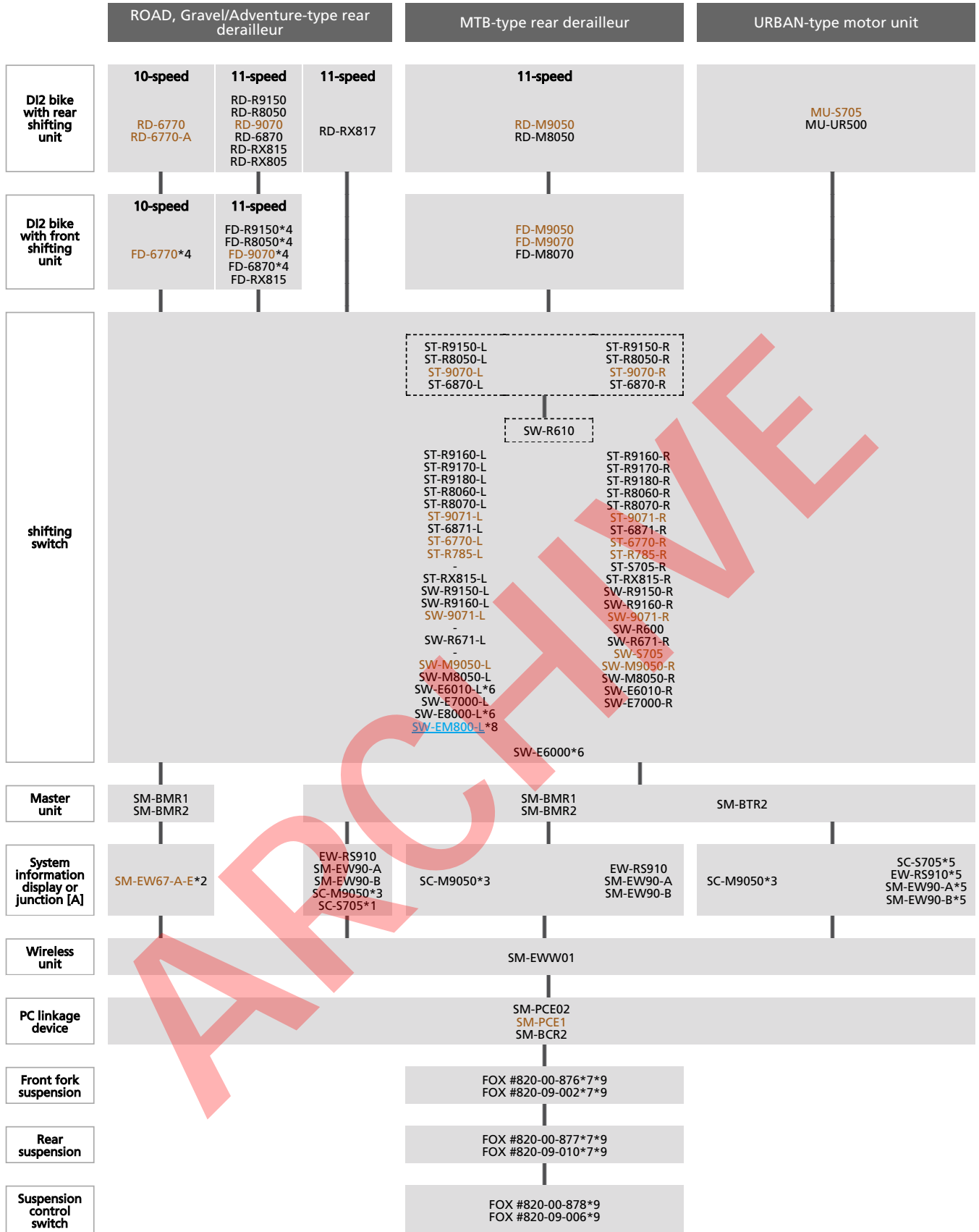


Limitation of function with BM-DN100 / BT-DN110

- *1 Shifting adjustment mode for [MU-S705](#) and MU-UR500 is not supported (need E-TUBE PROJECT to adjust).
- *2 Not possible to connect to E-TUBE PROJECT for tablet/smartphone, as no support for Bluetooth®LE.
- *3 A designated control switch and/or the combination [SW-M9050](#)/[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.
- *8 Only supported by E-TUBE PROJECT for mobile.

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



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

*1 SC-S705

- Front derailleur position will not appear on display.
- Recovery from Rear derailleur protection function is not available.
- Front / Rear derailleur adjustment mode is not available. Use E-TUBE PROJECT software.
- SC-S705 has only 1 SD50 port for ST / SW.
- SC-S705 may not turn on the display by front shifting switch.

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

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

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

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

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

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

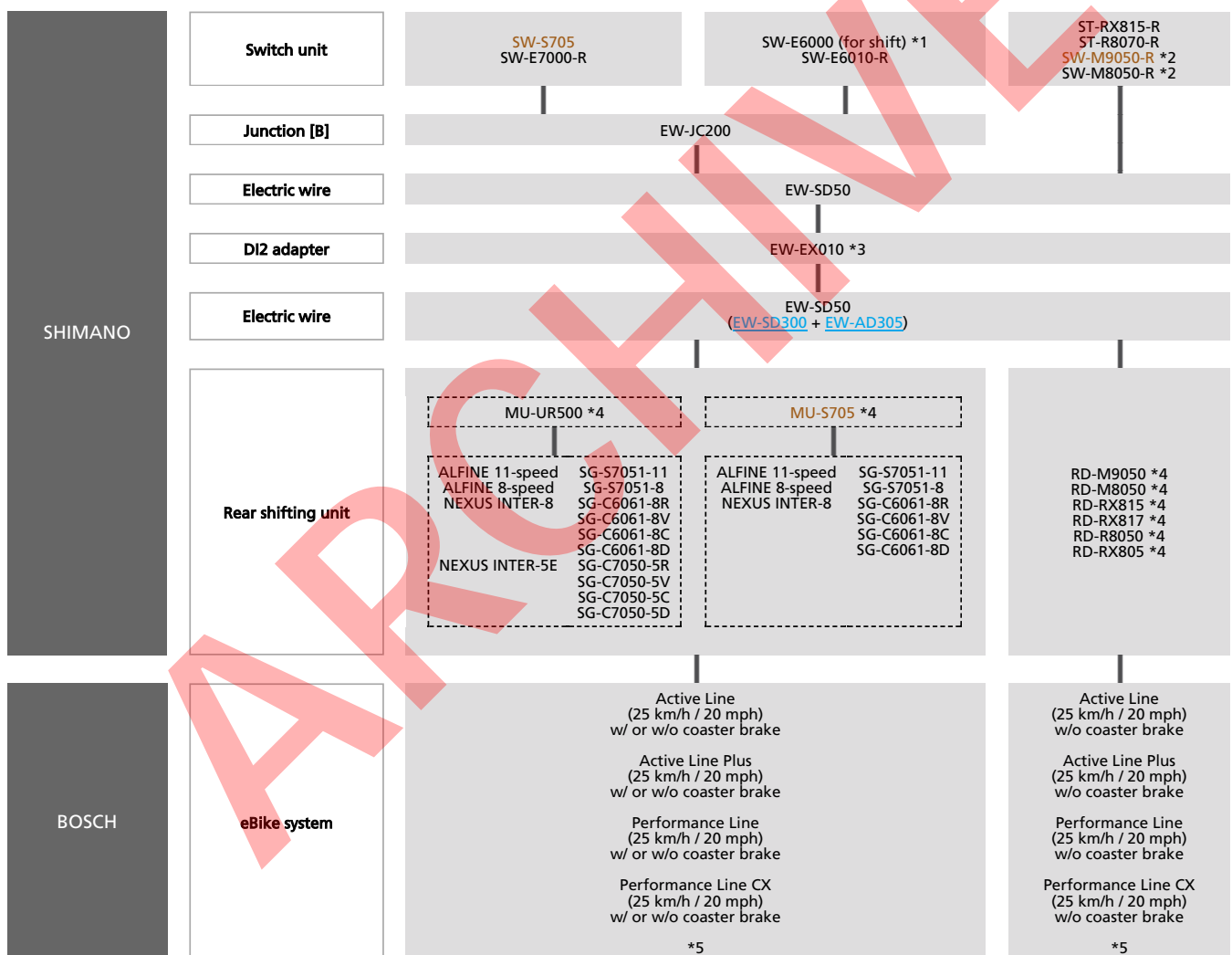
*7 A designated control switch is needed to operate the suspension system.

*8 This unit has SD300 port, and needs EW-AD305 for connection.

*9 Only supported by E-TUBE PROJECT for mobile.

DI2 adapter compatibility

C-429



Limitation of function

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

*2: Not support full automatic shift

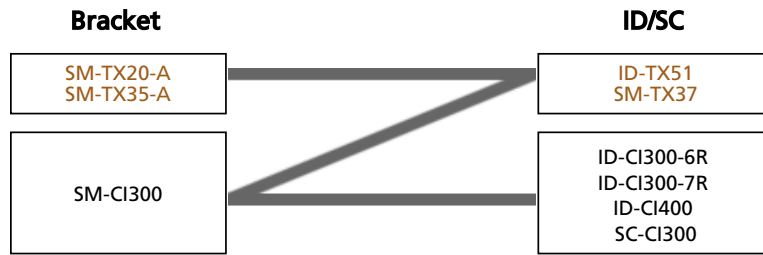
*3: EW-EX010 and BOSCH eBike system are connected by Y-harness which is provided by BOSCH

*4: Full automatic shift is available only with internal geared hub by MU-UR500 / MU-S705 (Not available with rear derailleur)

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

Compatibility between Bracket and ID/SC

C-548



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