

ARCHIVE

This information was updated on January 22, 2019. SHIMANO makes no warranty with respect to this information, including without limitation any warranty on the accuracy of measures, specifications and compatibility of the current products. Regarding any modification and new product information after January 22, 2019, please refer to the SHIMANO Business Customer Web Site or directly contact the sales person of our company.

SHIMANO

2018-2019

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	Battery cable	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	Front chainwheel	SPD-SL	SHIMANO PEDALING DYNAMICS-SL
	Crankarm		
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] C-440 C-559 C-441 C-442 C-445 C-446

Front derailleur and front chainwheel C-447

Front derailleur and chain line (TOURNEY) C-448

Front chainwheel, bottom bracket and chain line [MTB] C-449 C-450

Drivetrain for ROAD bike / URBAN SPORT components C-453

Rear drivetrain compatibility [ROAD, URBAN SPORT] C-454

Front drivetrain compatibility [ROAD, URBAN SPORT] C-455

Brake systems compatibility [ROAD] C-456

Hydraulic systems compatibility [ROAD] C-499

Hydraulic systems compatibility [URBAN SPORT] C-500

I-SPEC C-156

Compatibility of I-SPEC shifter and brake lever C-157

Disc brake C-460

Disc brake caliper and Rotor compatibility C-461

Compatibility of lock ring with hubs C-612

Combination chart (Mechanical Disc) C-462 C-463 C-464

Compatibility between hydraulic disc brake hose C-186

Disc brake mount adapter C-193 C-194 C-195

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

Brake lever with switch compatibility

C-467 C-468 C-469

Cassette Sprocket C-544

11-speed FREEHUB compatibility

C-253

Compatibility between rear derailleur and cassette sprocket gear teeth [ROAD, URBAN SPORT]

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

Comfort components C-470

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

C-471

Single gear and chain combination

C-608

Spoke protector C-298

Spoke protector

C-491

MTB

C-299

ROAD, URBAN SPORT

C-300

Spoke protector for Road

C-302

E-BIKE compatibility chart C-431

E-BIKE system (with E-TUBE PROJECT ver.3.4)

C-525

Drivetrain compatibility

C-488

Battery and battery mount compatibility

C-511

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.3.4

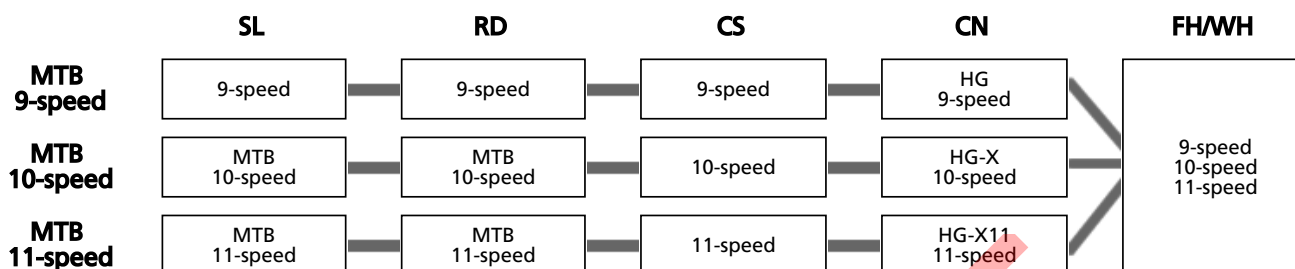
C-473

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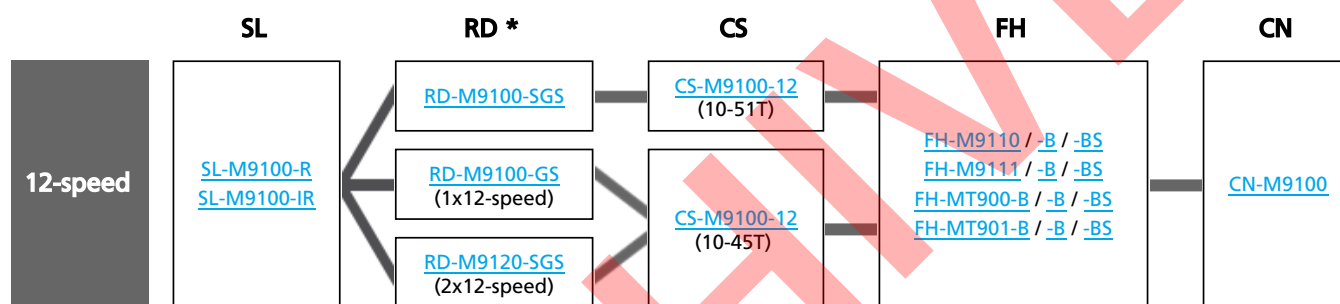
Rear drivetrain compatibility [MTB]

C-433

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



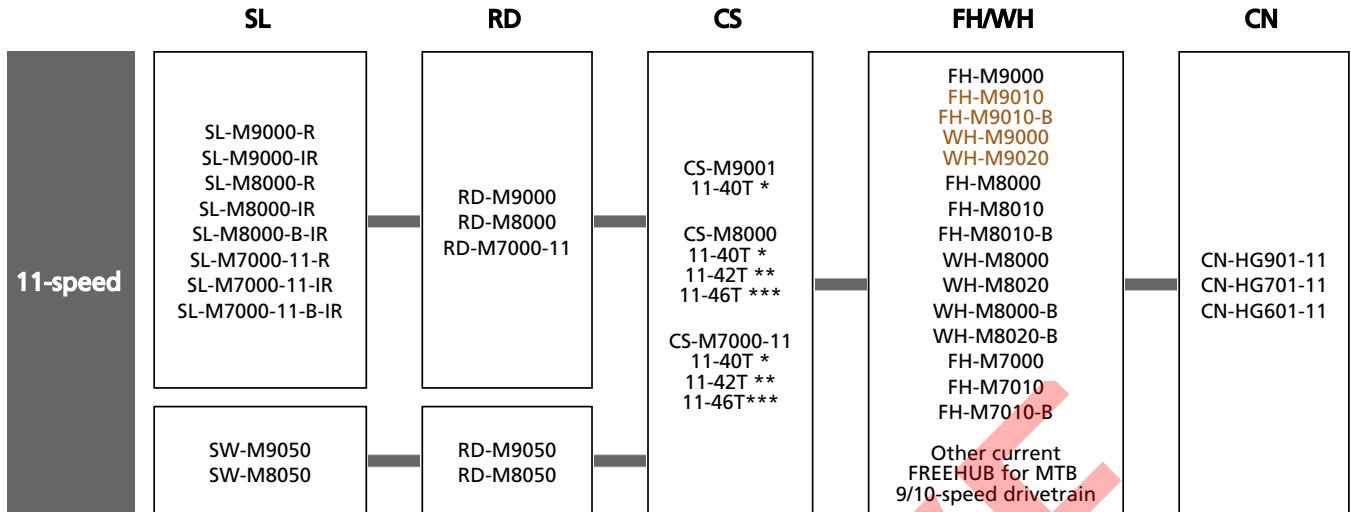
12-speed rear drivetrain (MICRO SPLINE) [MTB] C-558



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

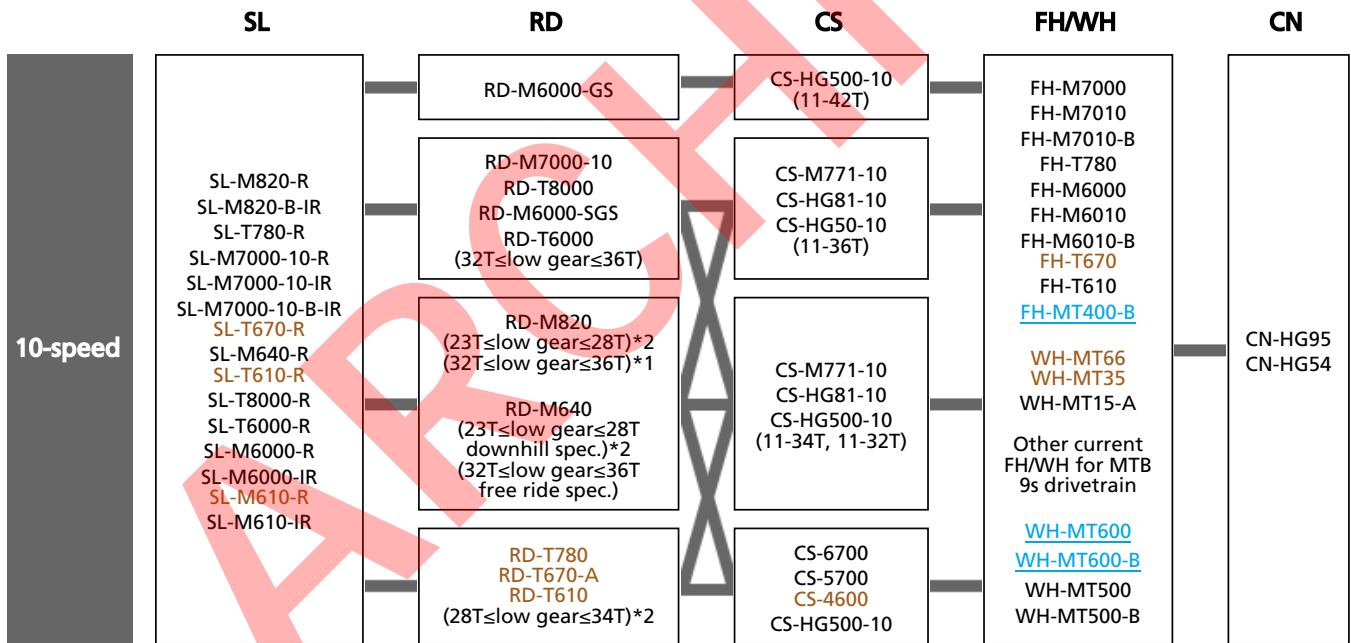
11-speed rear drivetrain [MTB] C-435

XTR M9000 / DEORE XT M8000 / SLX M7000 Series



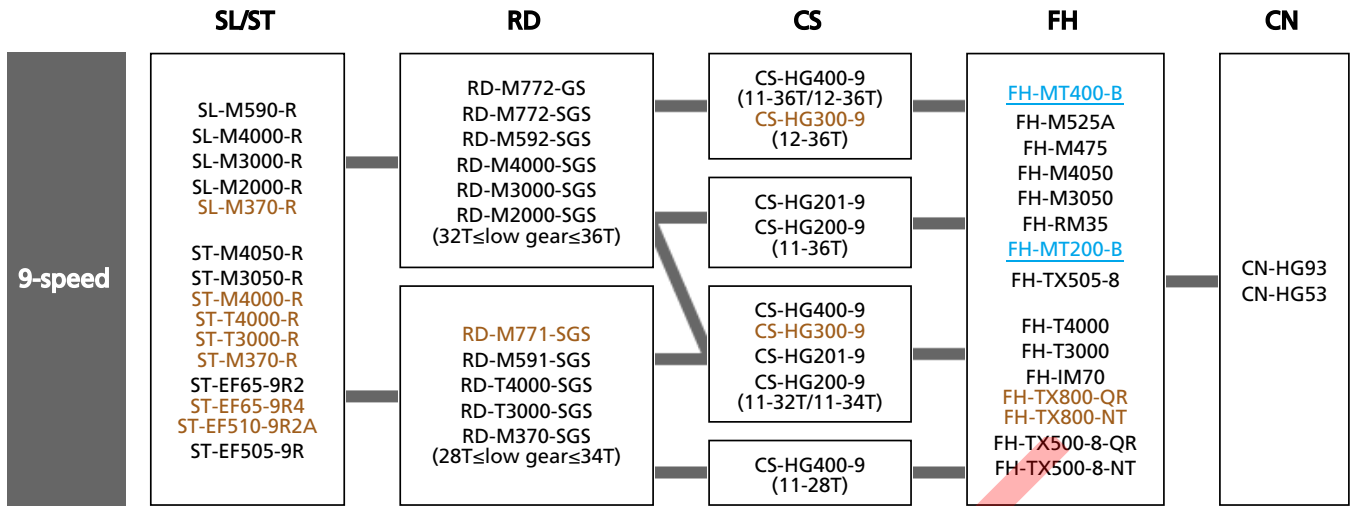
- * 3/2x11-speed drive train
- ** 2/1x11-speed drive train
- *** Only for 1x11-speed drivetrain

10-speed rear drivetrain [MTB] C-436



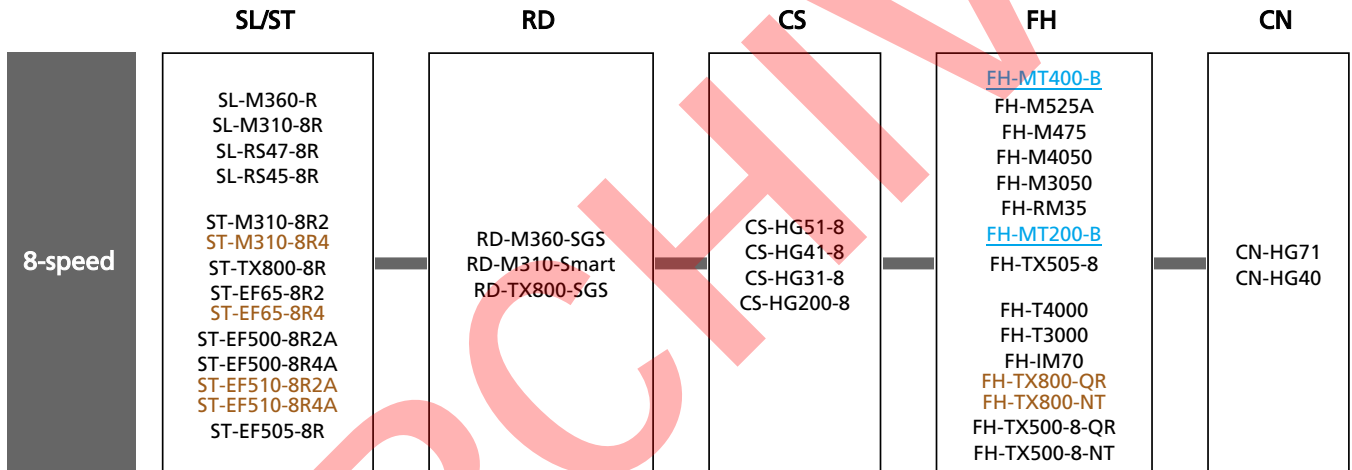
- *1 Mode converter
- *2 Compatible with road Cassette sprocket

9-speed rear drivetrain [MTB] C-437

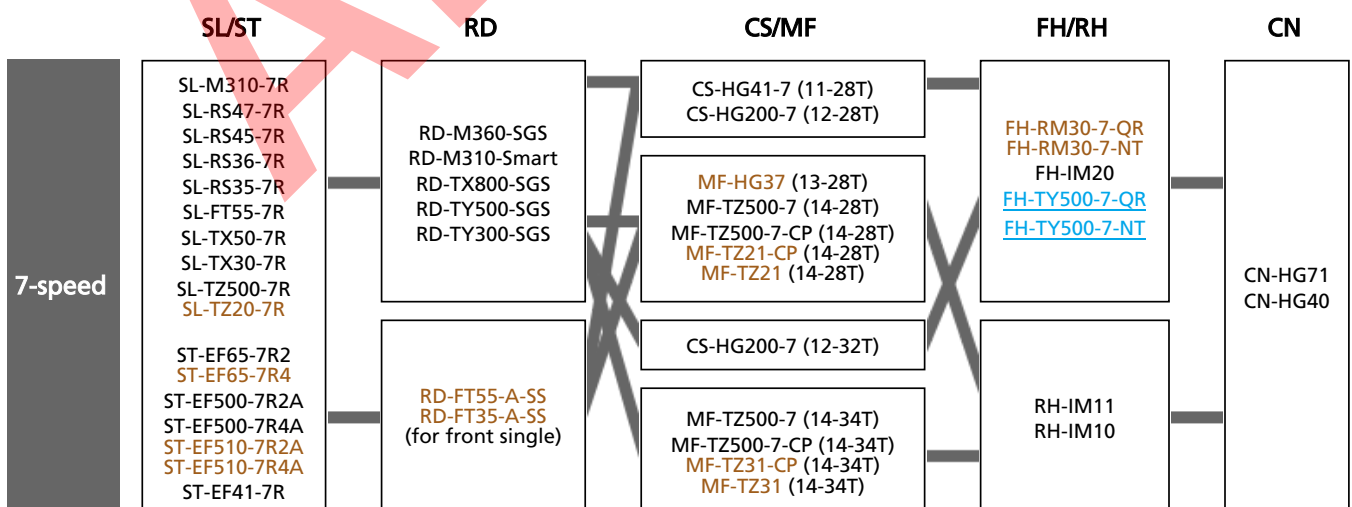


8-speed HG [MTB] C-438

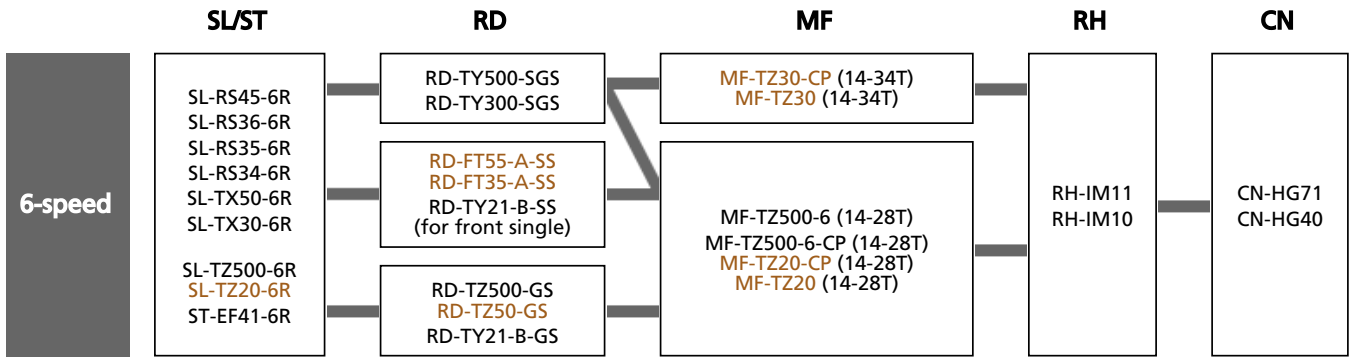
The rear derailleur for 8-speed can also be used for 7-speed drivetrain.



7-speed HG [MTB] C-439

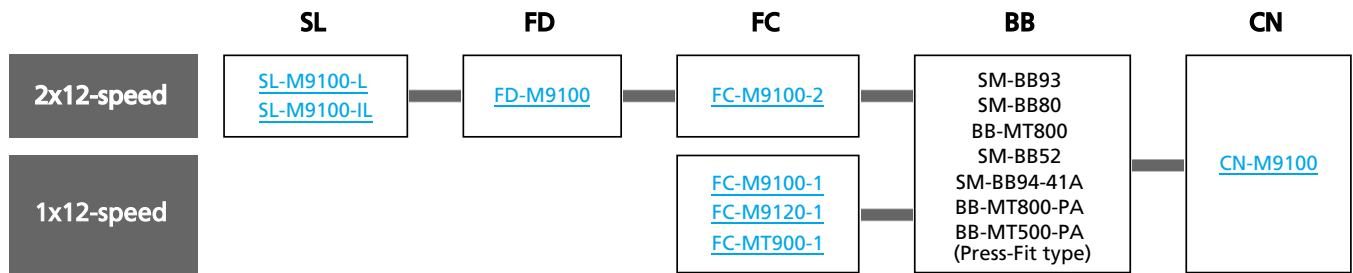


6-speed HG and 6-speed [MTB] C-546

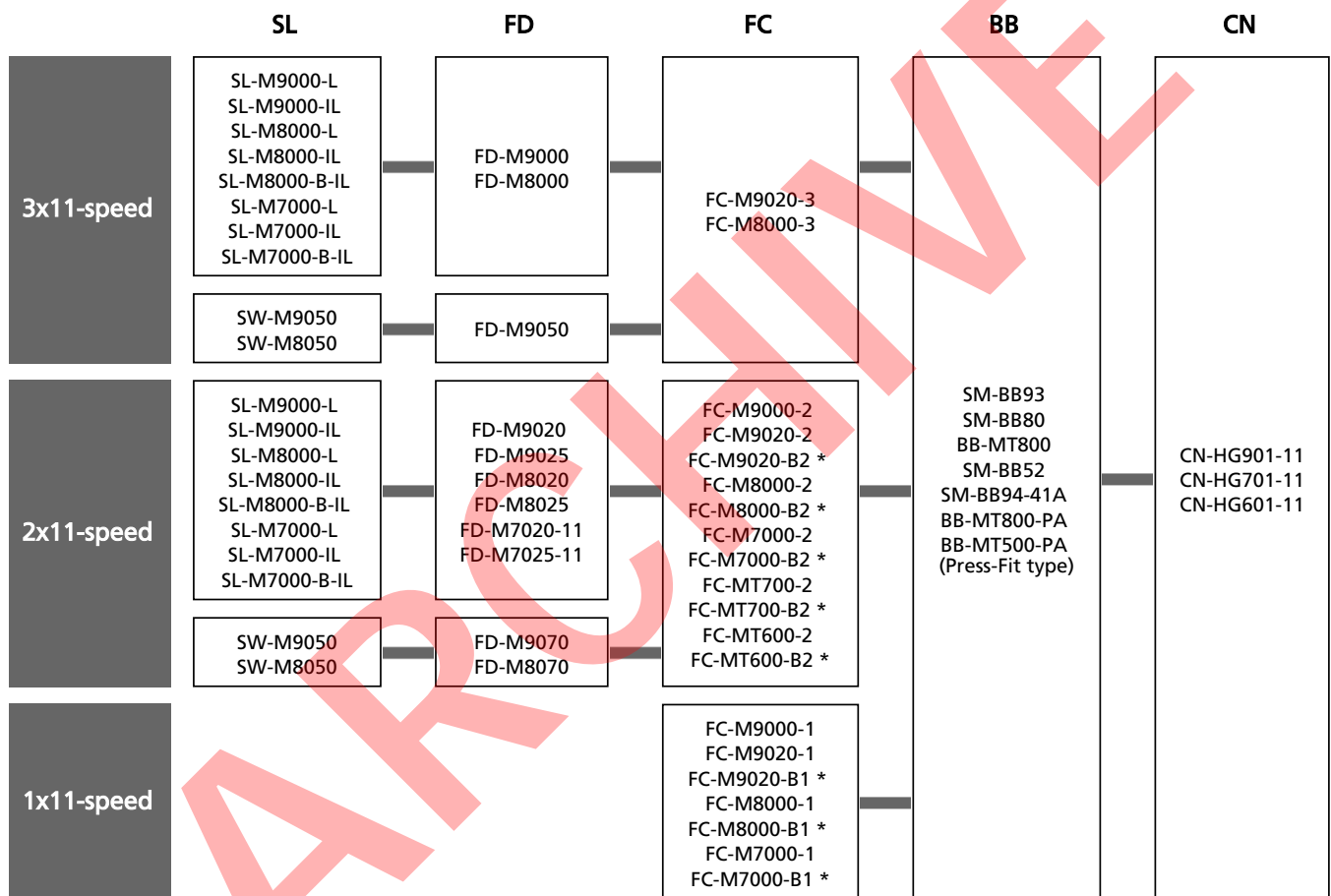


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12-speed front drivetrain C-559



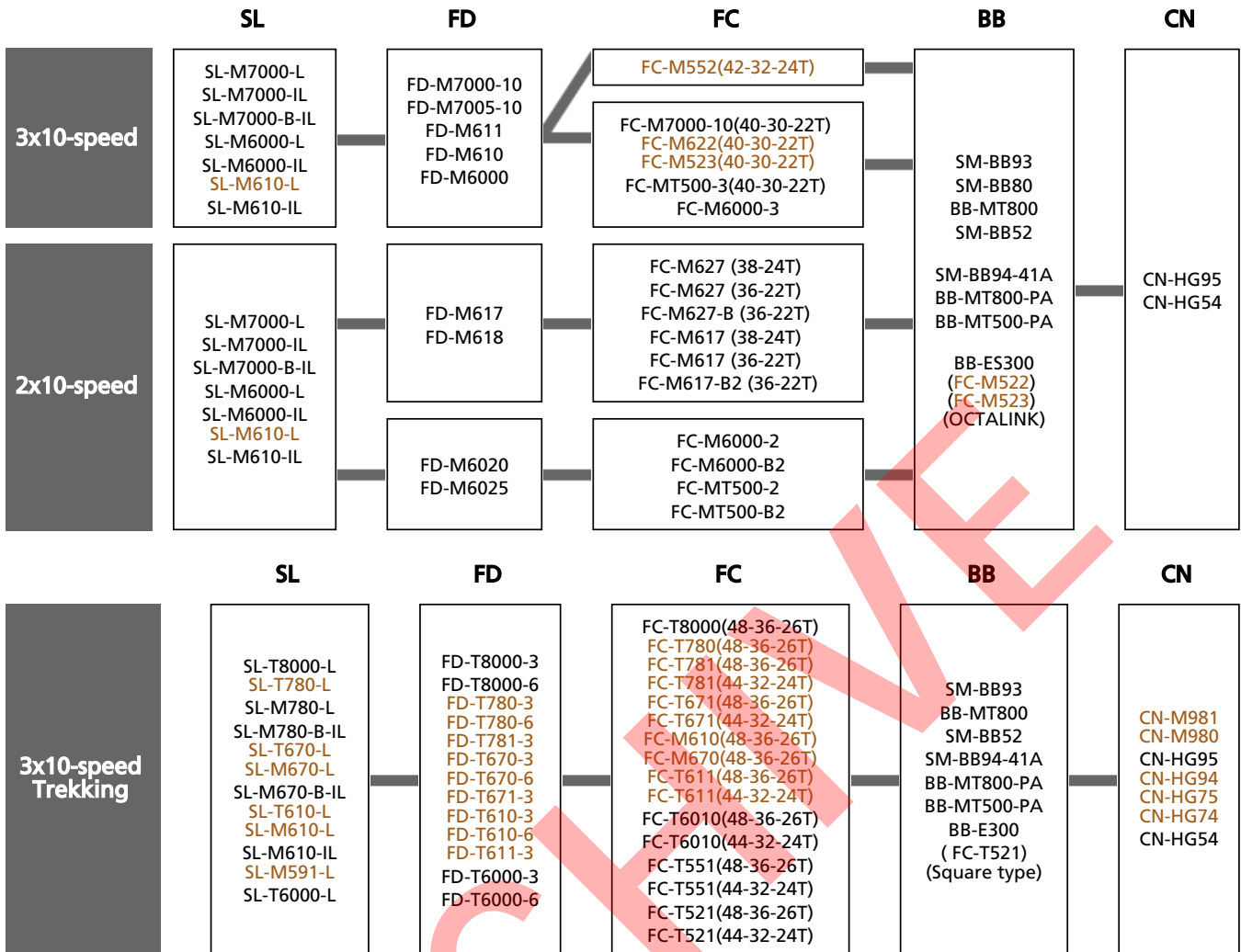
11-speed front drivetrain C-441



NOTE

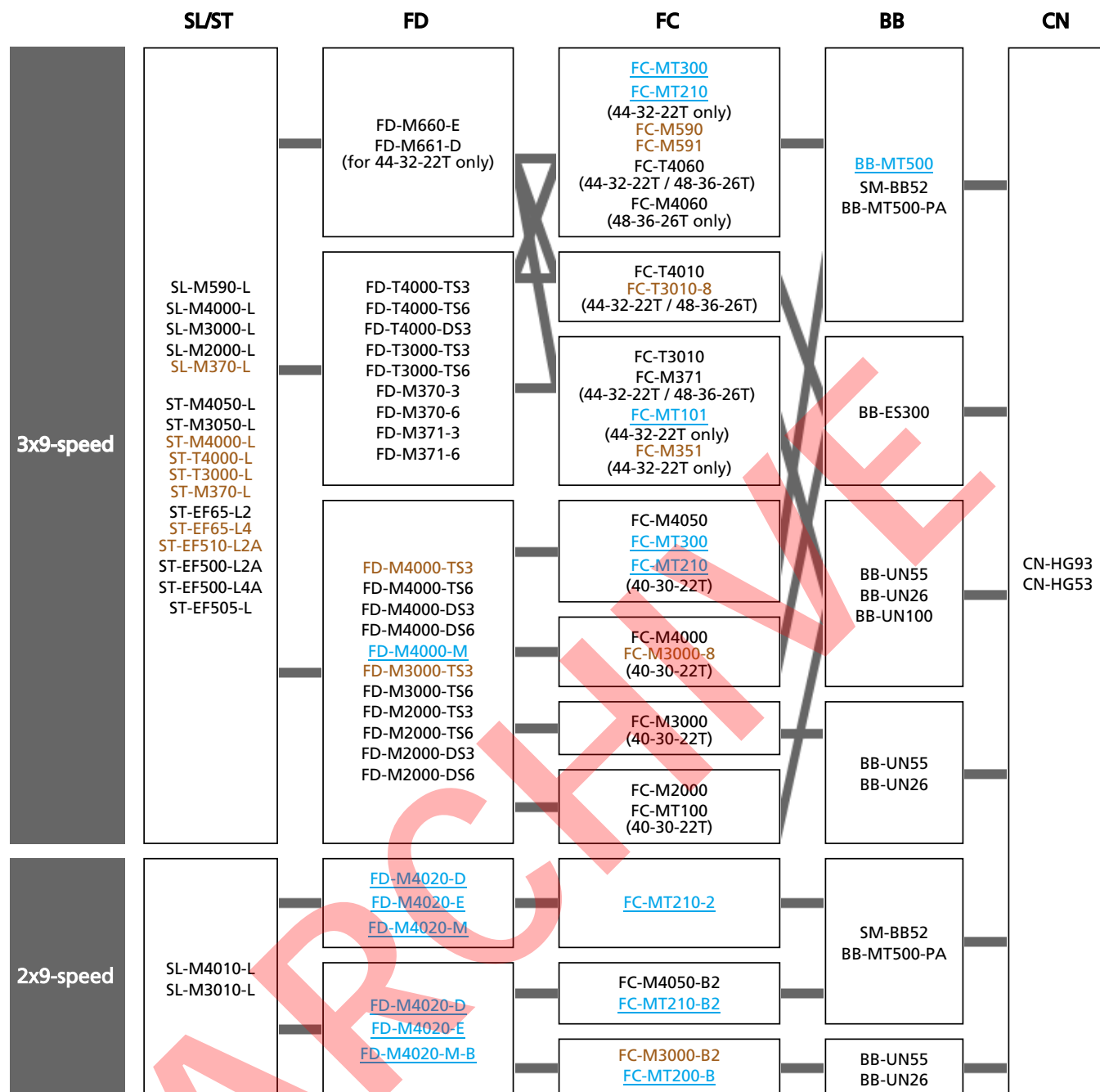
*It also requires new dimension of frame which cassette position is 3mm outboard

10-speed front drivetrain [MTB] C-442

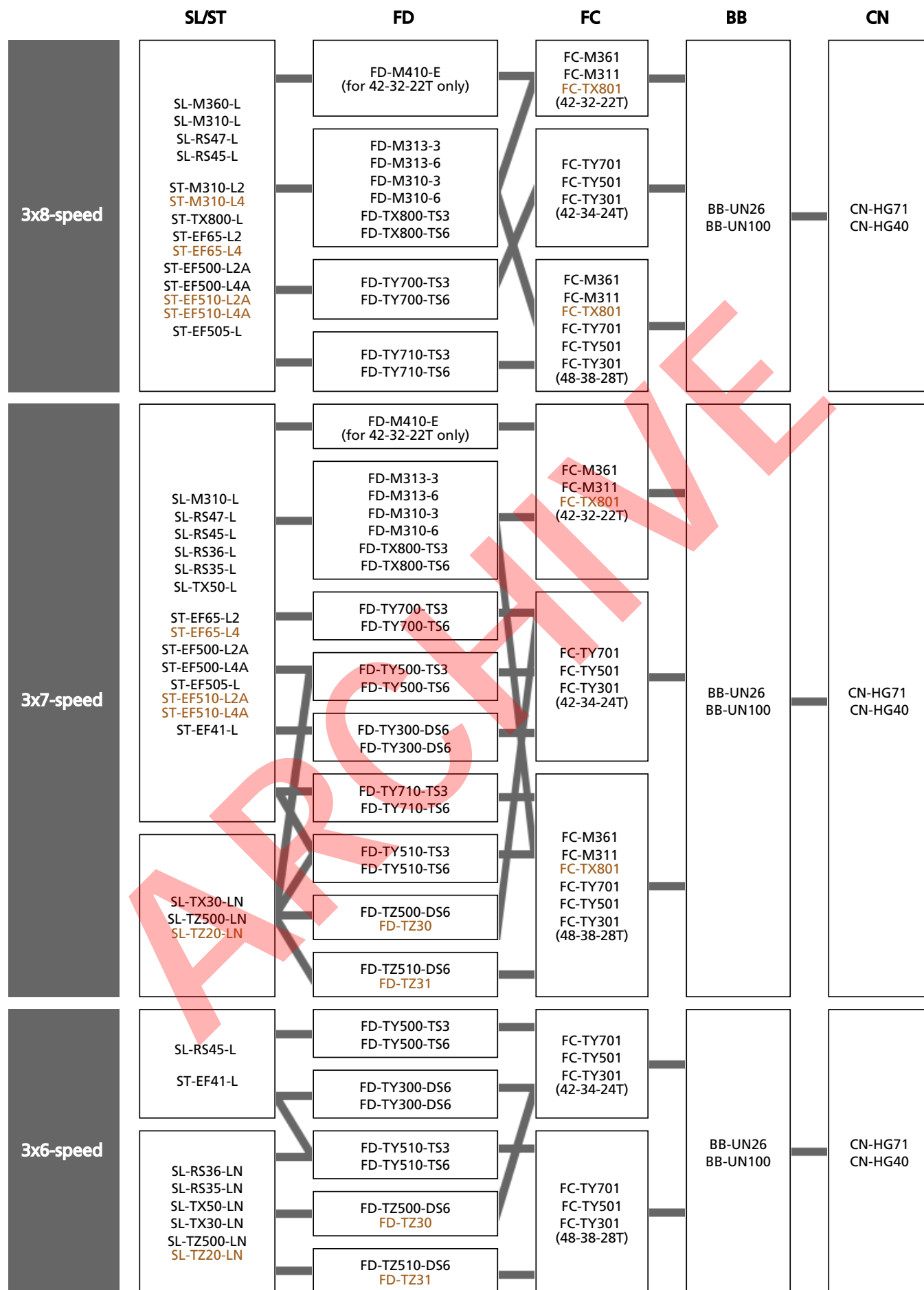


AARC

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



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



Front derailleur and front chainwheel

C-447

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

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

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

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

Front derailleur and chain line (TOURNEY)

C-448

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

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

ARCHIVE

Front chainwheel, bottom bracket and chain line [MTB]

C-449

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

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

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

X: Yes

*: 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.

Rear drivetrain compatibility [ROAD, URBAN SPORT]

C-454

	ST/SL	RD	CS	CN	FH/WH
2x11-speed DURA-ACE R9100 series 9000 series ULTEGRA R8000 series 6800 series 105 R7000 series 5800 series METREA U5000 series	ST-R9100 ST-R9120 ST-9001 ST-9000 SL-BSR1 ST-R8000 ST-R8020 ST-6800 ST-R7000 ST-R7020 ST-R7025 ST-5800 SL-R5700 ST-R5685 ST-R5505 ST-U5060 SL-U5000	RD-R9100-SS RD-R8000-SS 25T≤CS Low gear≤30T RD-9000 RD-R8000-GS RD-RX800-GS 28T≤CS Low gear≤34T RD-6800-SS RD-5800-SS 23T≤CS Low gear≤28T RD-R7000-SS 25T≤CS Low gear≤30T RD-R7000-GS 28T≤CS Low gear≤34T RD-6800-GS RD-5800-GS 28T≤CS Low gear≤32T RD-U5000-SS 28T≤CS Low gear≤32T	CS-R9100 CS-9000 CS-6800 CS-5800 CS-R8000 CS-HG800-11 CS-R7000 CS-HG700-11	CN-9000 CN-6800 CN-HG901-11 CN-HG701-11 CN-HG601-11	FH-9000 WH-R9100 WH-RS700 WH-RS500 FH-6800 FH-5800 FH-R7000 FH-R7070 FH-RS400 (O.L.D. 130 mm) FH-CX75 FH-RS505 WH-RX830 WH-RX31 WH-U5000 WH-RX010 (O.L.D. 135 mm) WH-R9170 WH-RS770 WH-RS370 WH-RS300 WH-RS170 WH-RS100 FH-RS770 (O.L.D. 142 mm)
	ST-R9150 ST-R9160 ST-R9170 ST-R9180 ST-9070 ST-R8050 ST-R8060 ST-R8070 ST-9071 ST-6870 ST-6871 ST-R785	RD-R9150-SS RD-R8050-SS 25T≤CS Low gear≤30T RD-9070-SS RD-6870-SS 23T≤CS Low gear≤28T RD-R8050-GS RD-RX805 28T≤CS Low gear≤34T RD-6870-GS 28T≤CS Low gear≤32T			
	ST-U5060 SL-U5000	RD-U5000-SS			
1x11-speed METREA U5000 series					

2x10-speed

**ULTEGRA
6700 series**

**105
5700 series**

**TIAGRA
4700 series
4600 series**

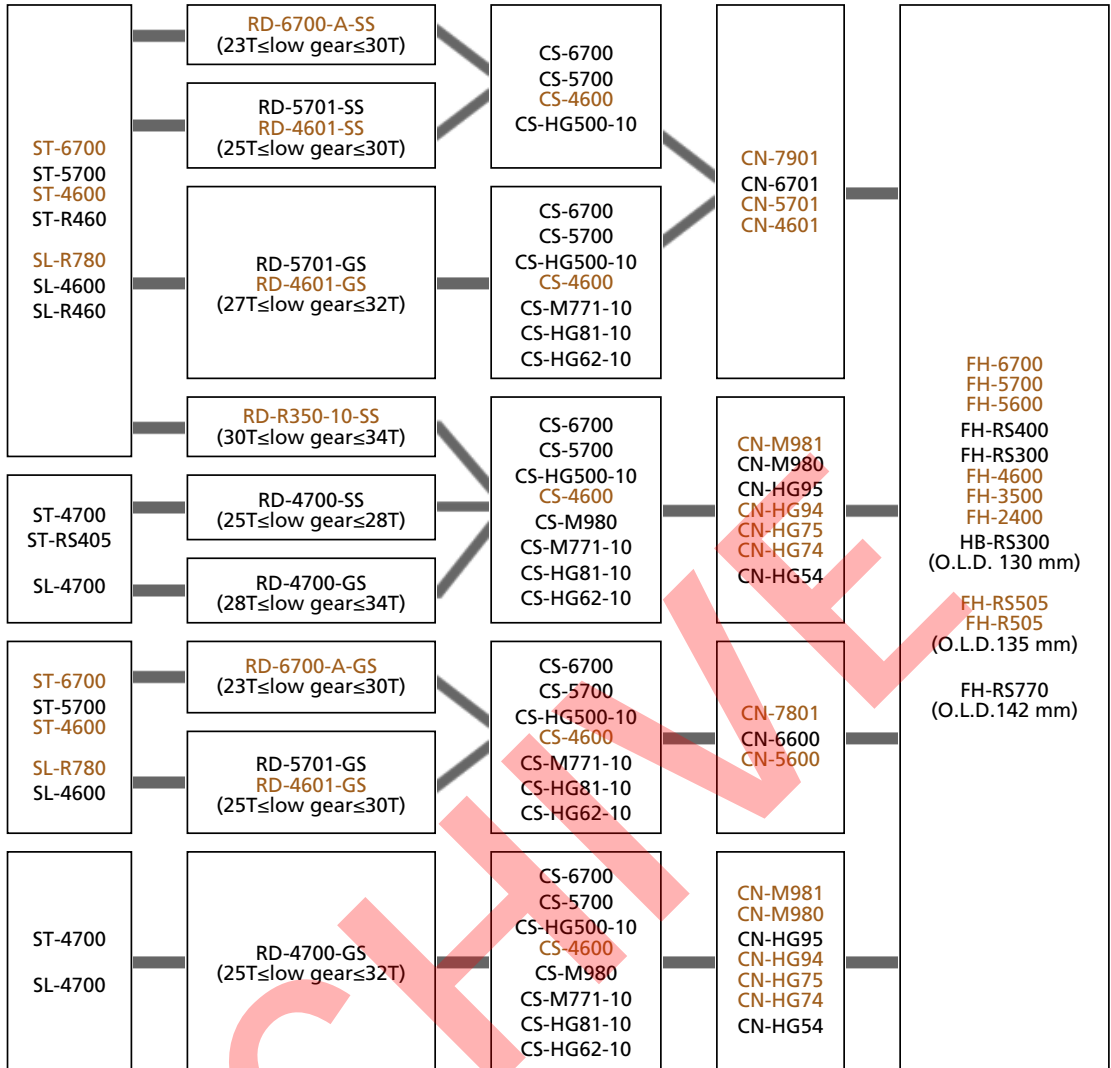
ST/SL

RD

CS

CN

FH

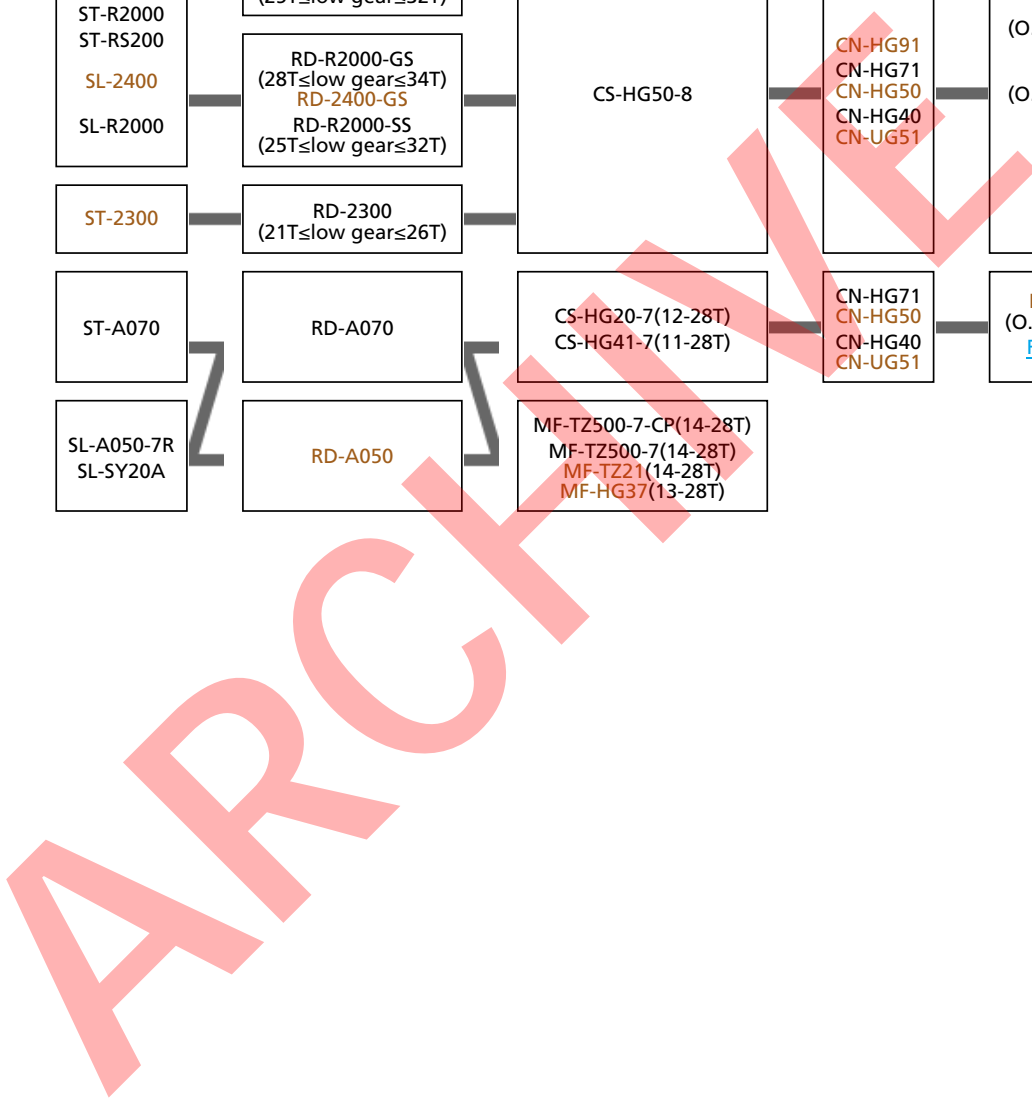
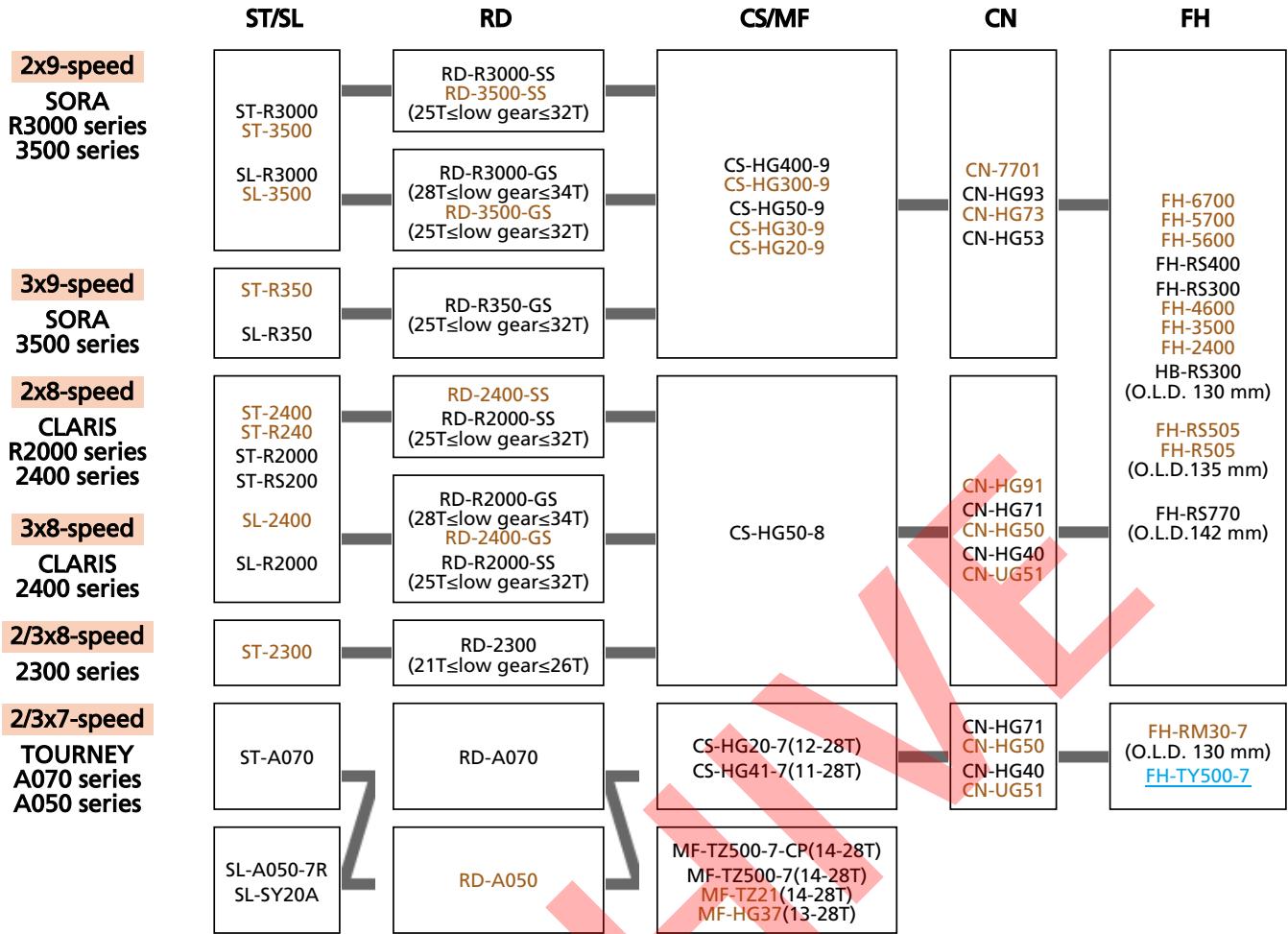


3x10-speed

**ULTEGRA
6700 series**

**105
5700 series**

**TIAGRA
4700 series
4600 series**



Front drivetrain compatibility [ROAD, URBAN SPORT]

C-455

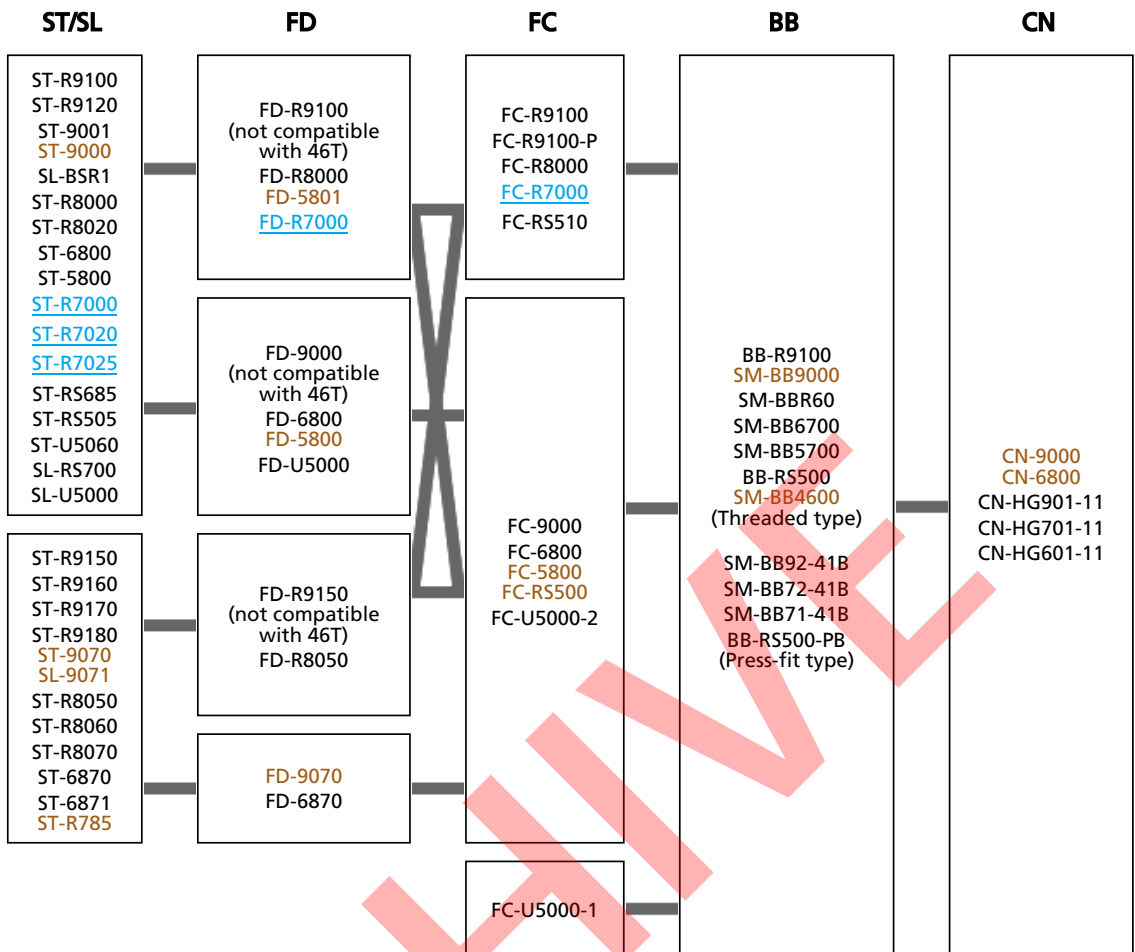
2x11-speed

DURA-ACE
R9100 series
9000 series

ULTEGRA
R8000 series
6800 series

105
R7000 series
5800 series

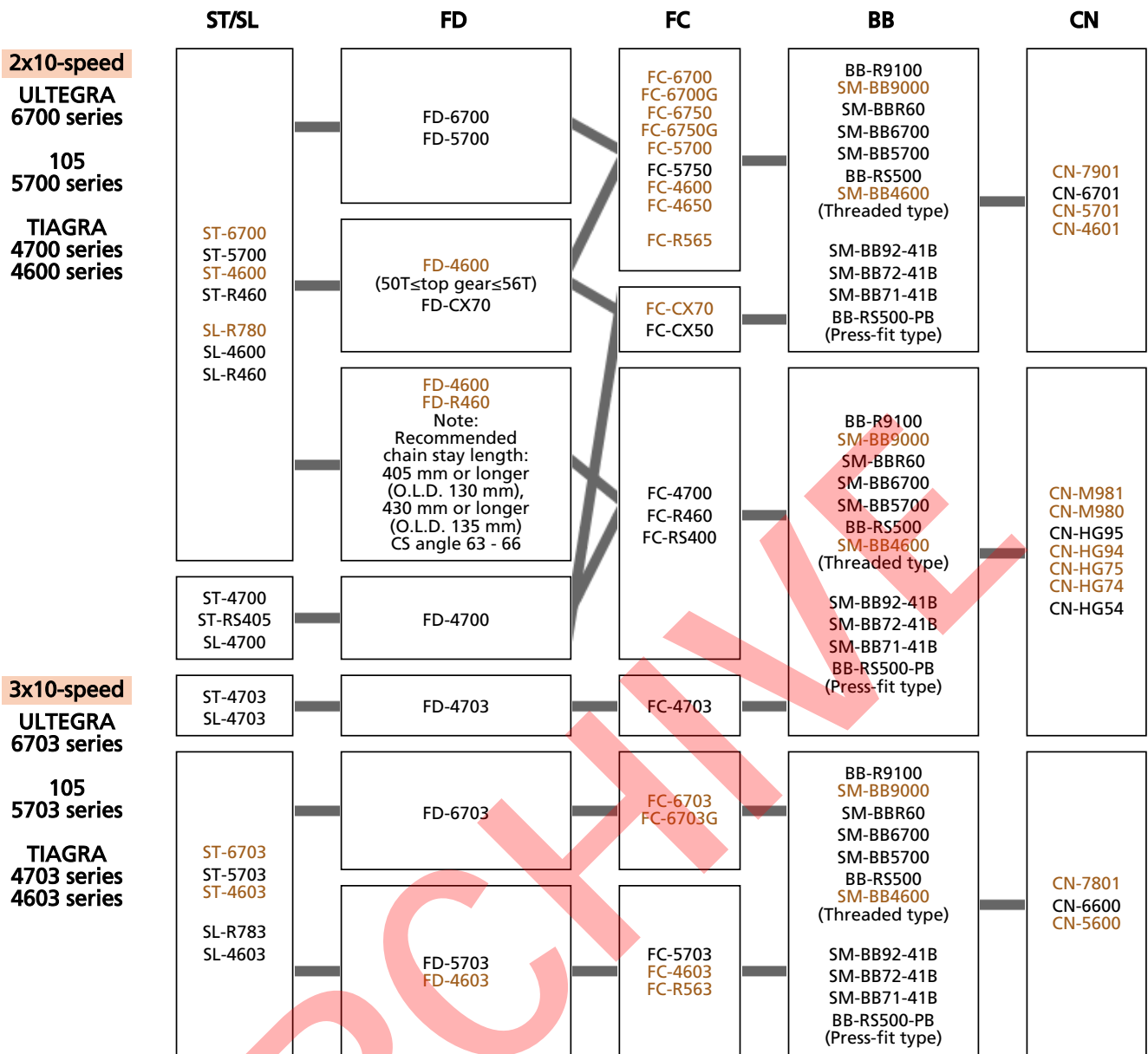
METREA
U5000 series

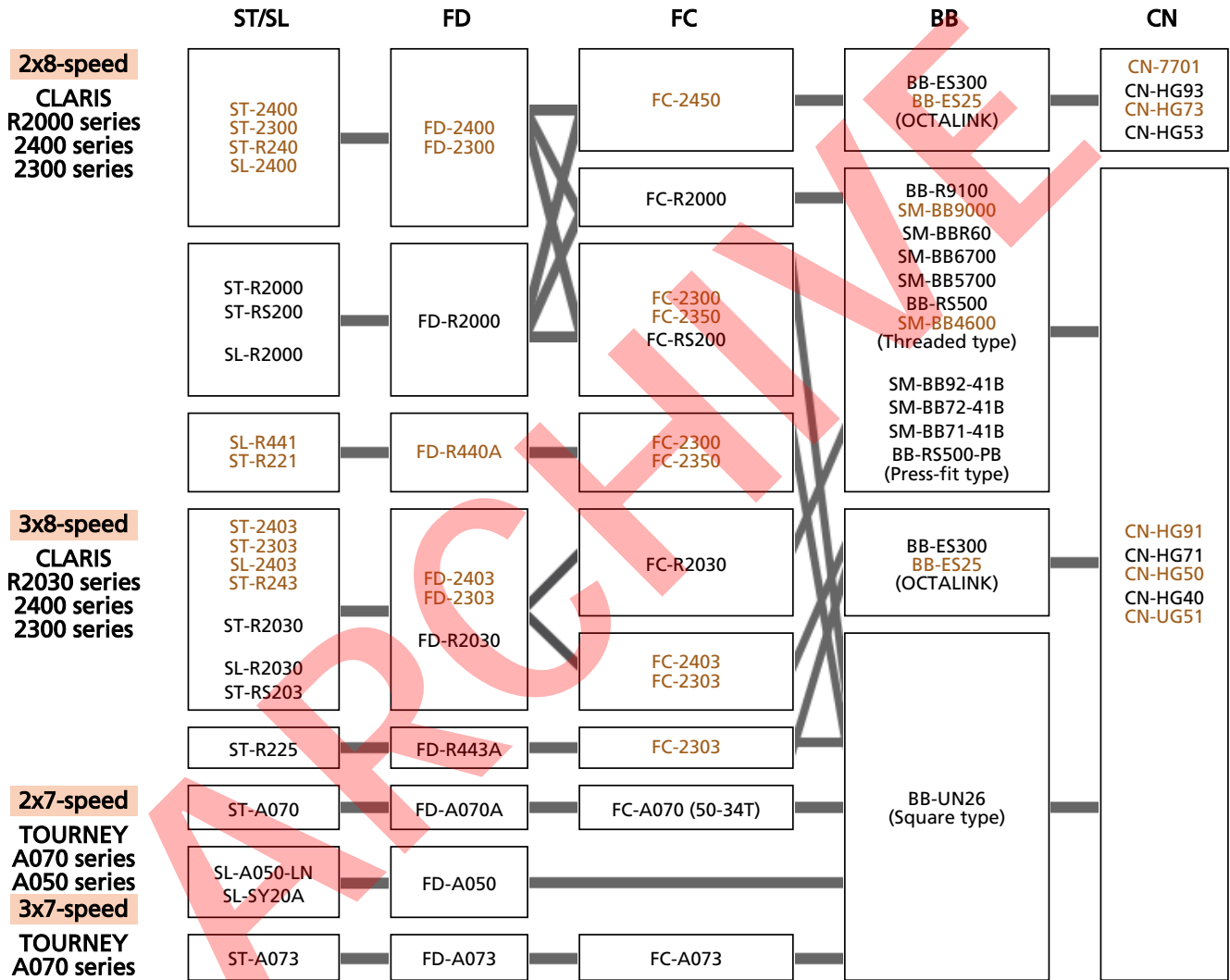
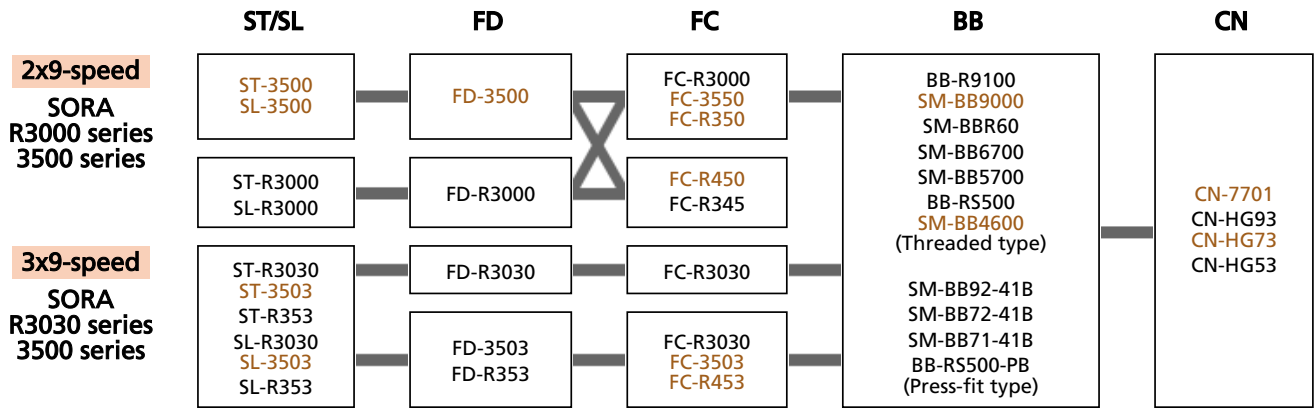


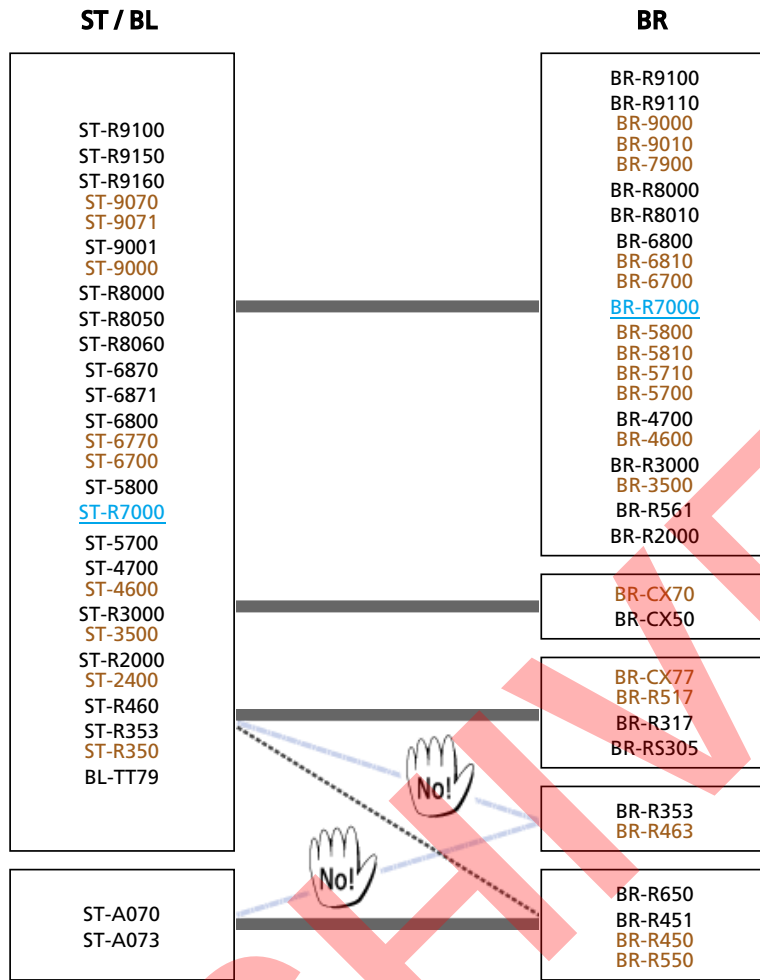
1x11-speed

METREA
U5000 series


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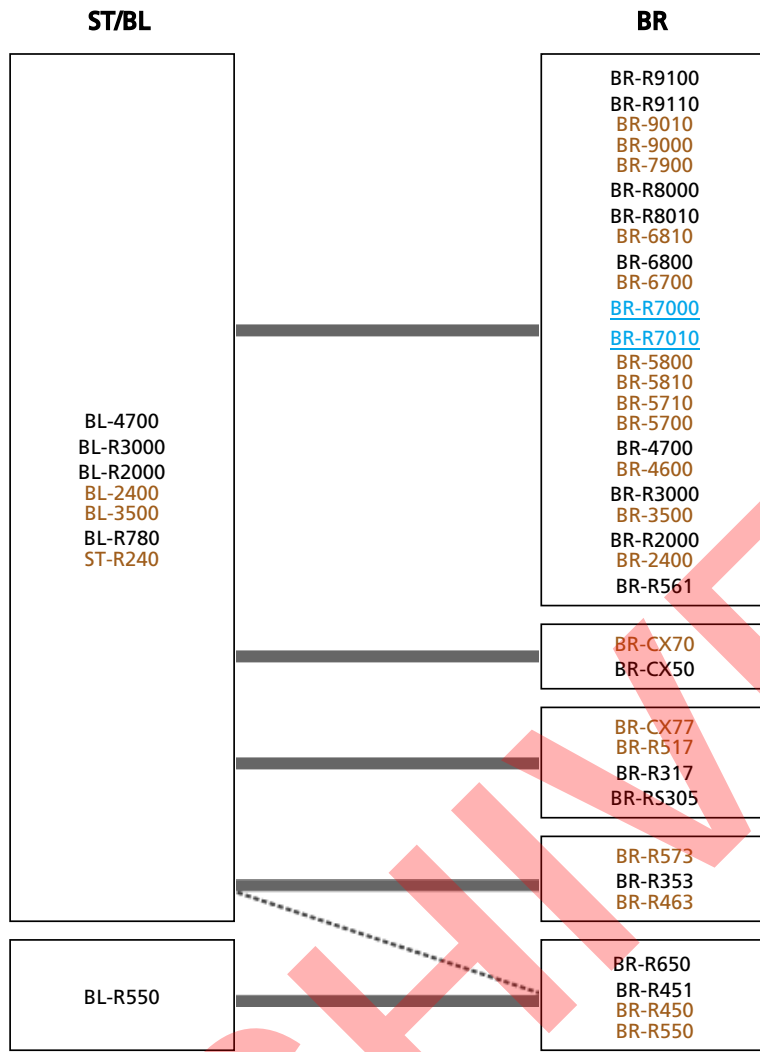






-----: Braking power is slightly less than standard combination.

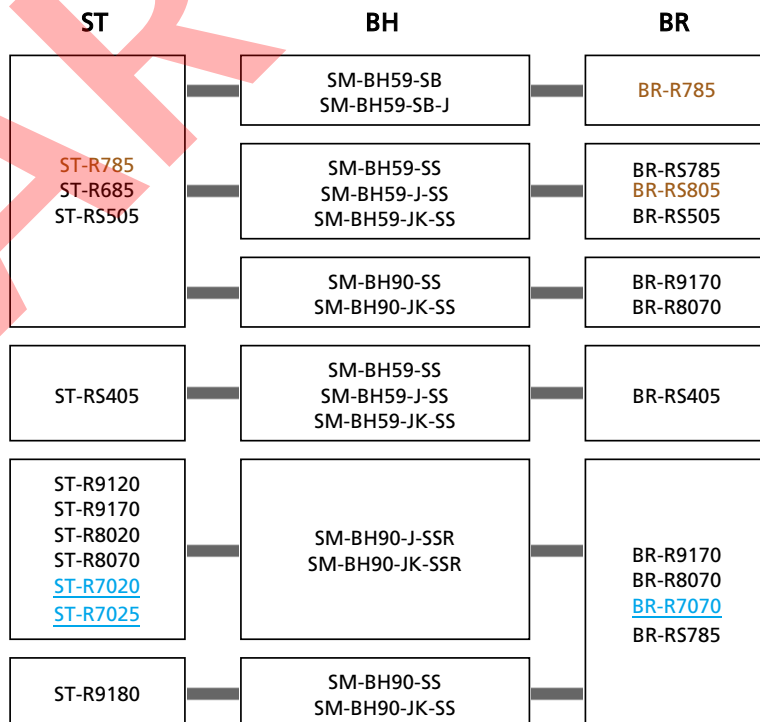
 : The "NO!" symbols indicate combinations that should not be used under any circumstances.



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

Hydraulic systems compatibility [ROAD]

C-499





ARCHIVE

Compatibility of I-SPEC shifter and brake lever

C-157

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

	Model No.	I-SPEC EV shifter	DI2 shifter		I-SPEC II shifter					I-SPEC B shifter		
		SL-M9100-I	SW-M9050	SW-M8050	SL-M9000-I	SL-M8000-I	SL-M7000-11-I / SL-M7000-10-I	SL-U5000	SL-M6000-I	SL-M8000-B-I	SL-M7000-11 / SL-M7000-10-B-I	SL-M820-B-I, SL-M820 (with SM-SL82-B)
I-SPEC EV	BL-M9100	X	-	-	-	-	-	-	-	-	-	-
	BL-M9120	X	-	-	-	-	-	-	-	-	-	-
I-SPEC II	BL-M9000	-	-	-	X	X	X	X	X	-	-	-
	BL-M9020	-	-	-	X	X	X	X	X	-	-	-
	BL-M8000	-	-	-	X	X	X	X	X	-	-	-
	BL-T8000	-	-	-	X	X	X	X	X	-	-	-
	BL-M7000	-	-	-	X	X	X	X	X	-	-	-
	BL-M6000	-	-	-	X	X	X	X	X	-	-	-
	BL-T6000	-	-	-	X	X	X	X	X	-	-	-
	BL-RS600	-	-	-	X	X	X	X	X	-	-	-
	BL-MT500	-	-	-	X	X	X	X	X	-	-	-
	BL-MT501	-	-	-	X	X	X	X	X	-	-	-
BL-U5000	-	-	-	X	X	X	X	X	-	-	-	
I-SPEC B	BL-M987	-	-	-	-	-	-	-	-	X	X	X
	BL-M988-B	-	-	-	-	-	-	-	-	X	X	X
	BL-M820-B	-	-	-	-	-	-	-	-	X	X	X
	BL-M640-B	-	-	-	-	-	-	-	-	X	X	X
	BL-T780-B	-	-	-	-	-	-	-	-	X	X	X
	BL-T675-B	-	-	-	-	-	-	-	-	X	X	X
	BL-T670-B	-	-	-	-	-	-	-	-	X	X	X
	BL-T610	-	-	-	-	-	-	-	-	X	X	X
BL-M506	-	-	-	-	-	-	-	-	X	X	X	
BL-S700-B	-	-	-	-	-	-	-	-	X	X	X	

Compatibility of [SL-MT800](#) (SL for dropper seat post) and brake lever

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

Disc brake caliper and 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	Metal / Resin	Narrow	RT-MT900-L SM-RT99-L SM-RT86-L SM-RT81-L RT-EM900-L* SM-RT76-L SM-RT70-L SM-RT66-L SM-RT64-L	RT-MT900-M SM-RT99-M SM-RT86-M SM-RT81-M RT-EM900-M* RT-EM800-M* SM-RT76-M SM-RT70-M SM-RT66-M SM-RT64-M	RT-MT900-S SM-RT900-S SM-RT800-S SM-RT99-S SM-RT86-S SM-RT81-S RT-EM900-S* RT-EM800-S* SM-RT76-S SM-RT70-S SM-RT66-S SM-RT64-S	RT-MT900-SS SM-RT900-SS SM-RT800-SS SM-RT99-SS SM-RT99-A-SS SM-RT81-SS
BR-M9120 BR-M9000 BR-M9020 BR-M8000 BR-M8020 BR-M7000 BR-M6000 BR-MT520	Metal / Resin	Narrow	RT-MT900-L SM-RT99-L SM-RT86-L SM-RT81-L RT-EM900-L* SM-RT76-L SM-RT70-L SM-RT66-L SM-RT64-L	RT-MT900-M SM-RT99-M SM-RT86-M SM-RT81-M RT-EM900-M* RT-EM800-M* SM-RT76-M SM-RT70-M SM-RT66-M SM-RT64-M SM-RT56-M** SM-RT54-M** SM-RT30-M** SM-RT26-M** SM-RT10-M**	RT-MT900-S SM-RT900-S SM-RT800-S SM-RT99-S SM-RT86-S SM-RT81-S RT-EM900-S* RT-EM800-S* SM-RT76-S SM-RT70-S SM-RT66-S SM-RT64-S SM-RT56-S** SM-RT54-S** SM-RT30-S** SM-RT26-S** SM-RT10-S**	RT-MT900-SS SM-RT900-SS SM-RT800-SS SM-RT99-SS SM-RT99-A-SS SM-RT81-SS
BR-M820 BR-M640	Metal / Resin					
BR-S700	Resin					
BR-T675 BR-T615 BR-M4050 BR-MT500 BR-M446 BR-MT400 BR-M3050 BR-M395 BR-M375 BR-MT200 BR-M365 BR-M315 BR-TX805	Resin	Wide	-	SM-RT56-M SM-RT54-M SM-RT30-M SM-RT26-M SM-RT10-M	SM-RT56-S SM-RT54-S SM-RT30-S SM-RT26-S SM-RT10-S	-
BR-UR300	Resin	Wide	-	-	SM-RT56-S SM-RT54-S SM-RT30-S SM-RT26-S SM-RT10-S	-
BR-R9170 BR-R8070 BR-R7070 BR-RS805 BR-R785 BR-RS785 BR-RS505 BR-RS405	Metal / Resin	Narrow	-	SM-RT99-M SM-RT86-M SM-RT81-M SM-RT70-M SM-RT64-M SM-RT56-M** SM-RT54-M** SM-RT30-M** SM-RT26-M** SM-RT10-M**	SM-RT900-S SM-RT800-S SM-RT99-S SM-RT86-S SM-RT81-S SM-RT70-S SM-RT64-S SM-RT56-S** SM-RT54-S** SM-RT30-S** SM-RT26-S** SM-RT10-S**	SM-RT900-SS SM-RT800-SS SM-RT99-SS SM-RT99-A-SS SM-RT81-SS SM-RT70-SS
BR-CX77 BR-R517 BR-R317 BR-RS305	Metal / Resin	Narrow	-	-	SM-RT99-S SM-RT86-S SM-RT81-S SM-RT76-S SM-RT70-S SM-RT66-S SM-RT64-S	SM-RT99-SS SM-RT99-A-SS SM-RT81-SS
BR-U5000***	Metal / Resin	Narrow	-	SM-RT99-M SM-RT86-M SM-RT81-M SM-RT76-M SM-RT70-M SM-RT66-M SM-RT64-M	SM-RT99-S SM-RT86-S SM-RT81-S SM-RT76-S SM-RT70-S SM-RT66-S SM-RT64-S	SM-RT500-SS SM-RT99-SS SM-RT99-A-SS SM-RT81-SS

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

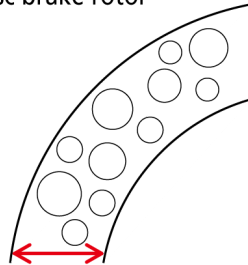
** Resin pad only

*** Not compatible with rear 180 mm disc brake rotors

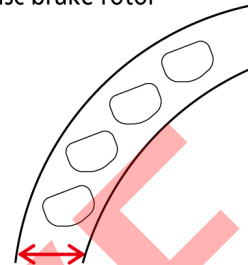
NOTE

- SM-RT56 / SM-RT54 / SM-RT30 / SM-RT26 / SM-RT10 are compatible with Resin pad caliper specification only. If use with metal pads, rotor will be easily damaged.
- When using 140mm 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 rotor are not compatible to caliper for Wide type rotor because of interference.
- [BR-UR300](#) doesn't need front mount bracket and rear adapter.

Wide type disc brake rotor



Narrow type disc brake rotor



Interference between brake caliper and adapter of rotor

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

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

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	X	X	X
12 mm E-THRU type	X	X	X
15/20 mm E-THRU type	-	X	X

FREEHUB (Disc Brake)

Model No.	Fixing type of lock ring		
	Internal serration	Internal & external serration	External serration
FH-M9110 FH-M9110-B FH-M9110-BS FH-M9111 FH-M9111-B FH-M9111-BS FH-M9000 FH-M9010 FH-M9010-B FH-MT900-B FH-MT900-BS FH-MT901-B FH-MT901-BS	-	-	X
Other models (MTB, Trekking, ROAD, URBAN SPORT)	X	X	X

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	X	-	X
BR-TX805	X	-	X

* POWER MODULATOR must be used for front brake

ARCHIVE

Compatibility between hydraulic disc brake hose

		SM-BH90-JK-SSR	SM-BH90-SBM *4	SM-BH90-SBLS *1	SM-BH90-SBS *2	SM-BH90-SB *3	SM-BH90-SS
Connection		Straight - Straight	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Banjo	Straight - Straight
Rigidity		High power	High power	High power	High power	High power	High power
BL-M9100	BR-M9100	-	-	-	-	-	X
BL-M9120	BR-M9120	-	X	-	-	-	-
BL-M9000	BR-M9000	-	X	-	-	-	-
BL-M9020	BR-M9020	-	X	-	-	X	-
BL-M820	BR-M820	-	-	X	-	-	-
BL-M8000	BR-M8000	-	X	-	-	X	-
BL-M8000	BR-M8020	-	-	X	-	-	-
BL-T8000	BR-M8000	-	X	-	-	X	-
BL-M7000	BR-M7000	-	X	-	-	X	-
BL-T675	BR-T675	-	-	-	-	-	X
BL-M640	BR-M640	-	-	X	X	-	-
BL-M6000	BR-M6000	-	-	-	-	-	X
BL-T6000	BR-M6000	-	-	-	-	-	-
BL-RS600	BR-RS405	-	-	-	-	-	-
BL-MT501	BR-MT520	-	-	-	-	-	X
BL-MT500	BR-MT500	-	-	-	-	-	-
ST-M4050	BR-M4050	-	-	-	-	-	-
ST-M3050	BR-M3050	-	-	-	-	-	-
BL-T445	BR-M446	-	-	-	-	-	-
BL-MT400	BR-MT400	-	-	-	-	-	-
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	-	-	-	-	-	-
BL-S700	BR-S700	-	X	-	-	X	-
ST-R9120 ST-R9170	BR-R9170	X	-	-	-	-	-
ST-R9180	BR-R9170	X	-	-	-	-	-
ST-R8020 ST-R8070	BR-R8070	X	-	-	-	-	-
ST-R7020	BR-R7070	X	-	-	-	-	-
ST-R7025	BR-R7070	X	-	-	-	-	-
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-U5000	BR-U5000	-	-	-	-	-	-
BL-U5010		-	-	-	-	-	-
ST-U5060		-	-	-	-	-	-

		SM-BH59-J-SS	SM-BH59-JK-SS (MTB)	SM-BH59-JK-SS (Road)	SM-BH59-SB *3	SM-BH59-SB-J *3
Connection		Straight - Straight	Straight - Straight	Straight - Straight	Straight - Banjo	Straight - Banjo
Rigidity		Standard	Standard	Standard	Standard	Standard
BL-M9100	BR-M9100	-	-	-	-	-
BL-M9120	BR-M9120	-	-	-	-	-
BL-M9000	BR-M9000	-	-	-	-	-
BL-M9020	BR-M9020	-	-	-	-	-
BL-M820	BR-M820	-	-	-	-	-
BL-M8000	BR-M8000	-	-	-	-	-
BL-M8000	BR-M8020	-	-	-	-	-
BL-T8000	BR-M8000	-	-	-	-	-
BL-M7000	BR-M7000	-	-	-	-	-
BL-T675	BR-T675	-	-	-	-	-
BL-M640	BR-M640	-	-	-	-	-
BL-M6000	BR-M6000	-	-	-	-	-
BL-T6000	BR-M6000	-	X	-	-	-
BL-RS600	BR-RS405	-	X	-	-	-
BL-MT501	BR-MT520	-	-	-	-	-
BL-MT500	BR-MT500	-	-	-	-	-
ST-M4050	BR-M4050	-	X	-	-	-
ST-M3050	BR-M3050	-	X	-	-	-
BL-T445	BR-M446	-	X	-	-	-
BL-MT400	BR-MT400	-	X	-	-	-
BL-M425	BR-M395	-	X	-	-	-
BL-M396	BR-M395	-	X	-	-	-
BL-MT201	BR-MT200	-	X	-	-	-
BL-MT200	BR-MT200	-	X	-	-	-
BL-MT201	BR-UR300	-	X	-	-	-
BL-MT200	BR-UR300	-	X	-	-	-
BL-M365	BR-M365	-	X	-	-	-
BL-M315	BR-M315	-	X	-	-	-
ST-EF505	BR-M315	-	X	-	-	-
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	X	-	-	-	-
ST-R785	BR-RS785	X	-	-	-	-
ST-R785	BR-R785	-	-	-	X	X
ST-RS685	BR-RS805	X	-	X	-	-
ST-RS685	BR-RS785	X	-	X	-	-
ST-RS685	BR-R785	-	-	-	X	X
ST-RS505	BR-RS785	X	-	X	-	-
ST-RS505	BR-RS505	X	-	X	-	-
ST-RS405	BR-RS405	-	-	X	-	-
BL-U5000	BR-U5000	-	-	X	-	-
BL-U5010	BR-U5000	-	-	X	-	-
ST-U5060	BR-U5000	-	-	X	-	-

Level of compatibility

X: Compatible

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

-: Impossible to use

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

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

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

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

How to read Model No. C-194

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

(1)	Small parts
(2)	Mount adapter
(3)	F = Front and Rear * R = Rear
(4)	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 the table below.

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

Application table for adapter C-195

For post mount brake caliper

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

For flat mount brake caliper

Fork and frame mount type		Rotor size	
		140 mm (SS)	160 mm (S)
Flat mount	Front	(with product / Y8N298010)	(with product / Y8N298010)
	Rear	Direct mount	SM-MA-R160D / D

NOTE

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

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

Series	Brake with New cable	
DURA-ACE	BR-R9110	X
	BR-R9100	X
ULTEGRA	BR-R8000	X
	BR-R8010	
	BR-6800	X
105	BR-R7000	X
	BR-R7010	
	BR-5810	
	BR-5700	-
TIAGRA	BR-4700	X
SORA	BR-R3000	X
CLARIS	BR-R2000	X
	Others	-

C-306

X: Yes





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	X	X	NOTE
V-BRAKE Levers (3-finger)				
ST-T4000 ST-T3000	BL-T780 BL-T611 BL-T670 BL-T780-B BL-T4010 BL-T670-B		X	
Brake Levers with switch				
ST-R240	BL-4600 BL-R780 BL-4700 BL-R3000 BL-R2000 BL-2400	X	X	
V-BRAKE lever with switch				
ST-M310 (4-finger) SB-C6000-8 SB-C3000-7 ST-EF65 (4-finger) ST-EF51 (4-finger) ST-EF510 (4-finger) ST-EF500 (4-finger)	BL-C6010 BL-C6000		X	X

X: Yes

* POWER MODULATOR must be used for front brake

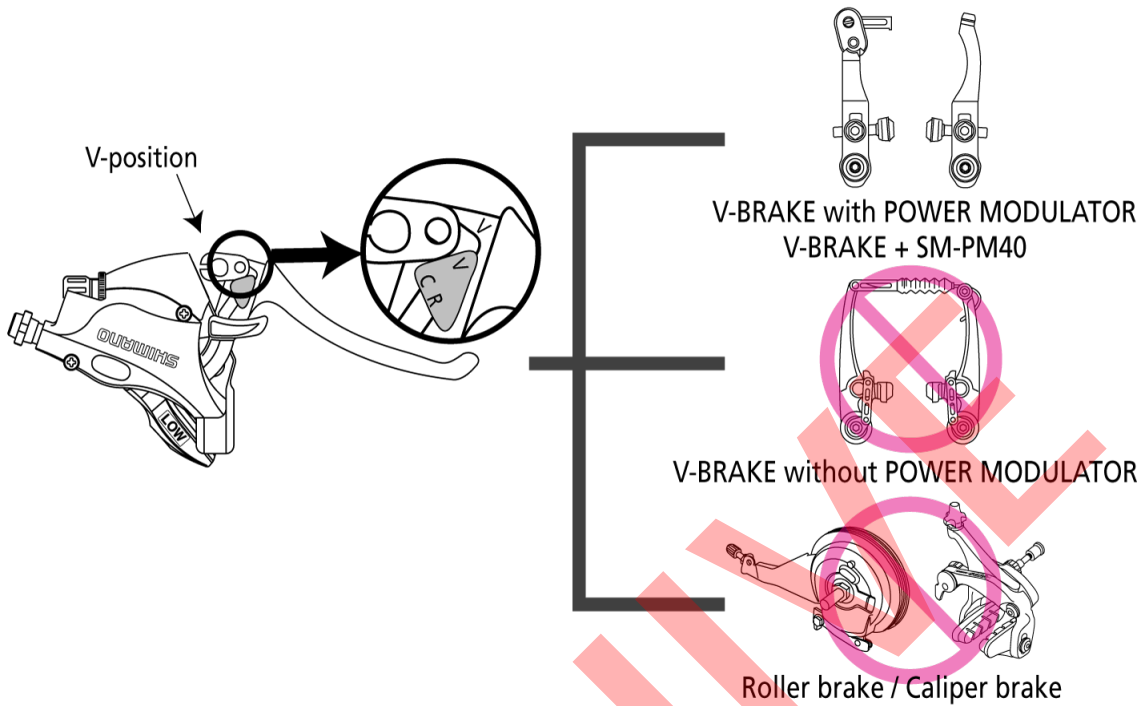
 The "NO!" symbols indicate combinations that should not be used under any circumstances.

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

Brake lever with switch compatibility

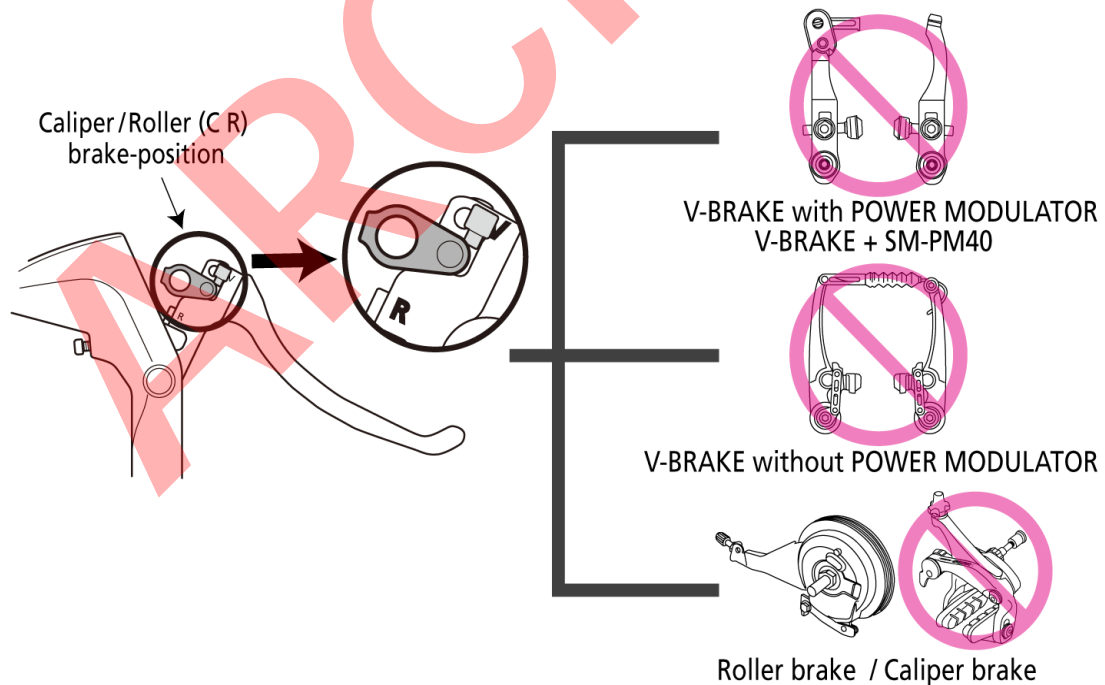
Four finger brake levers such as brake levers are equipped with a switch to change between the V-BRAKE with modulator mode (for example with SM-PM40) and the caliper brake or roller brake mode.

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

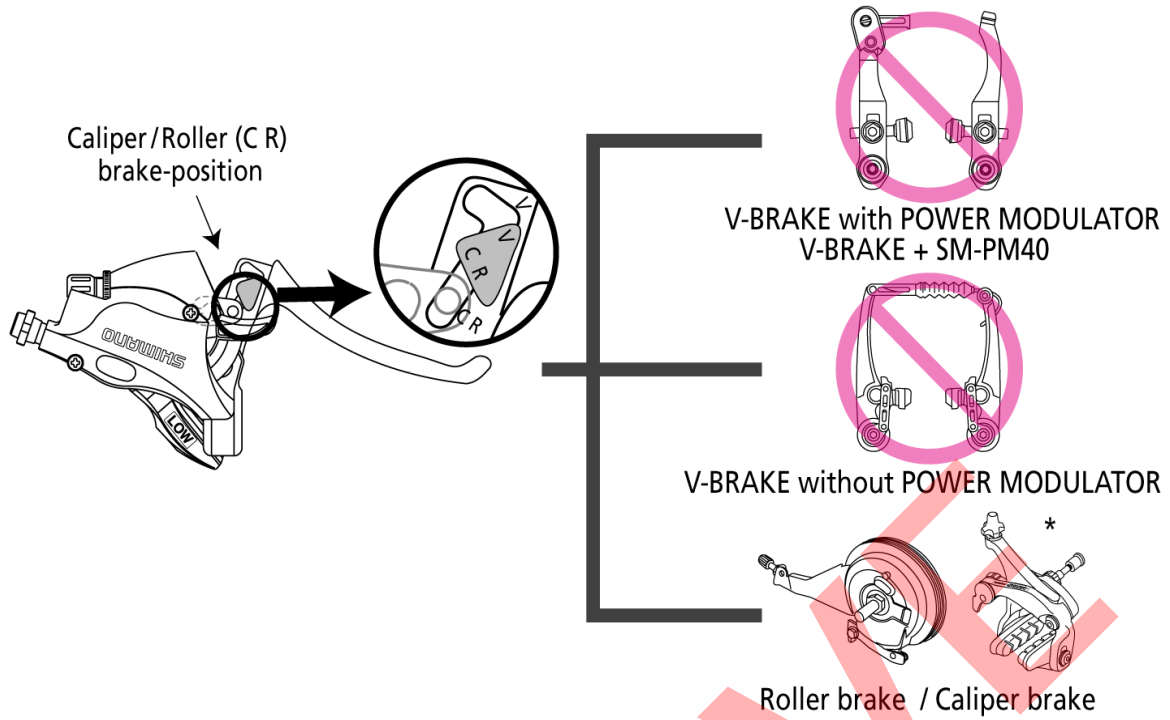


For Caliper brake / Roller brake C-469

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.

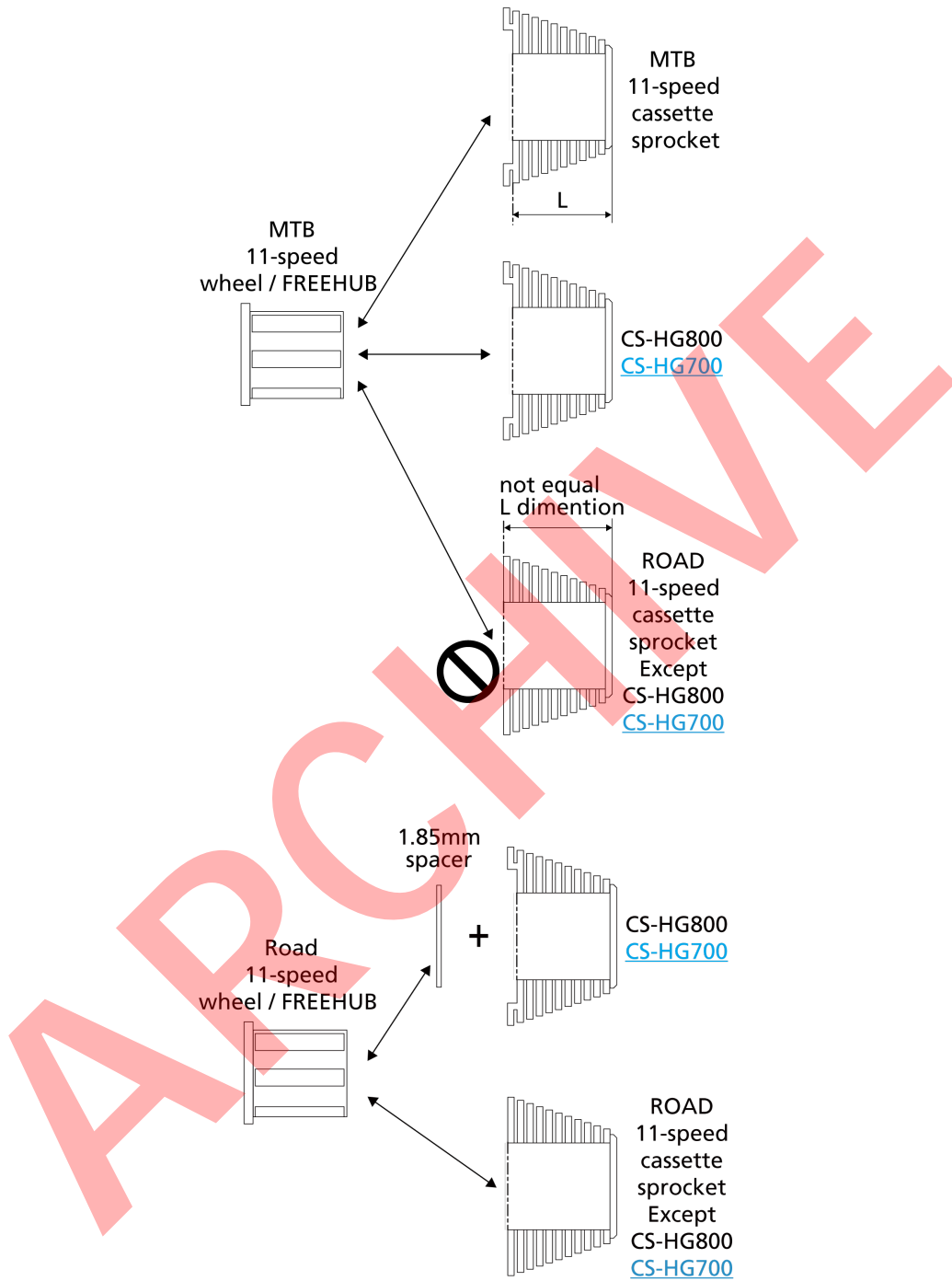
WARNING

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, URBAN SPORT]

C-254

11-speed C-255

Gear	11-speed							
	RD-R9150 / RD-R9100	RD-9000	RD-R8050 / RD-R8000		RD-RX800 / RD-RX805		RD-6870	
	-	SS	SS	GS Front double	GS Front double		SS	GS Front double
11-23T	-	X	-	-	-	-	X	-
11-25T	X	X	X	-	-	-	X	-
11-28T	X	X	X	X	X	X	X	X
11-30T	X	-	X	X	X	X	-	X
11-32T	-	-	-	X	X	X	-	X
11-34T	-	-	-	X	X	X	-	-
12-25T	X	X	X	-	-	-	X	-
12-28T	X	X	X	X	-	-	X	X
14-28T	X	X	X	-	-	-	X	-

Gear	11-speed					
	RD-R7000		RD-6800 / RD-5800		RD-U5000-SS	
	SS	GS Front double	SS	GS Front double	SS	
11-23T	-	-	X	-	-	
11-25T	-	-	X	-	-	
11-28T	X	X	X	X	X	
11-30T	X	X	-	X	-	
11-32T	-	X	-	X	X	
11-34T	-	X	-	-	-	
12-25T	X	-	X	-	-	
12-28T	-	X	X	X	-	
14-28T	X	-	X	-	-	

10-speed C-256

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

9-speed C-257

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

8-speed C-258

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



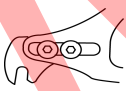

7-speed C-259

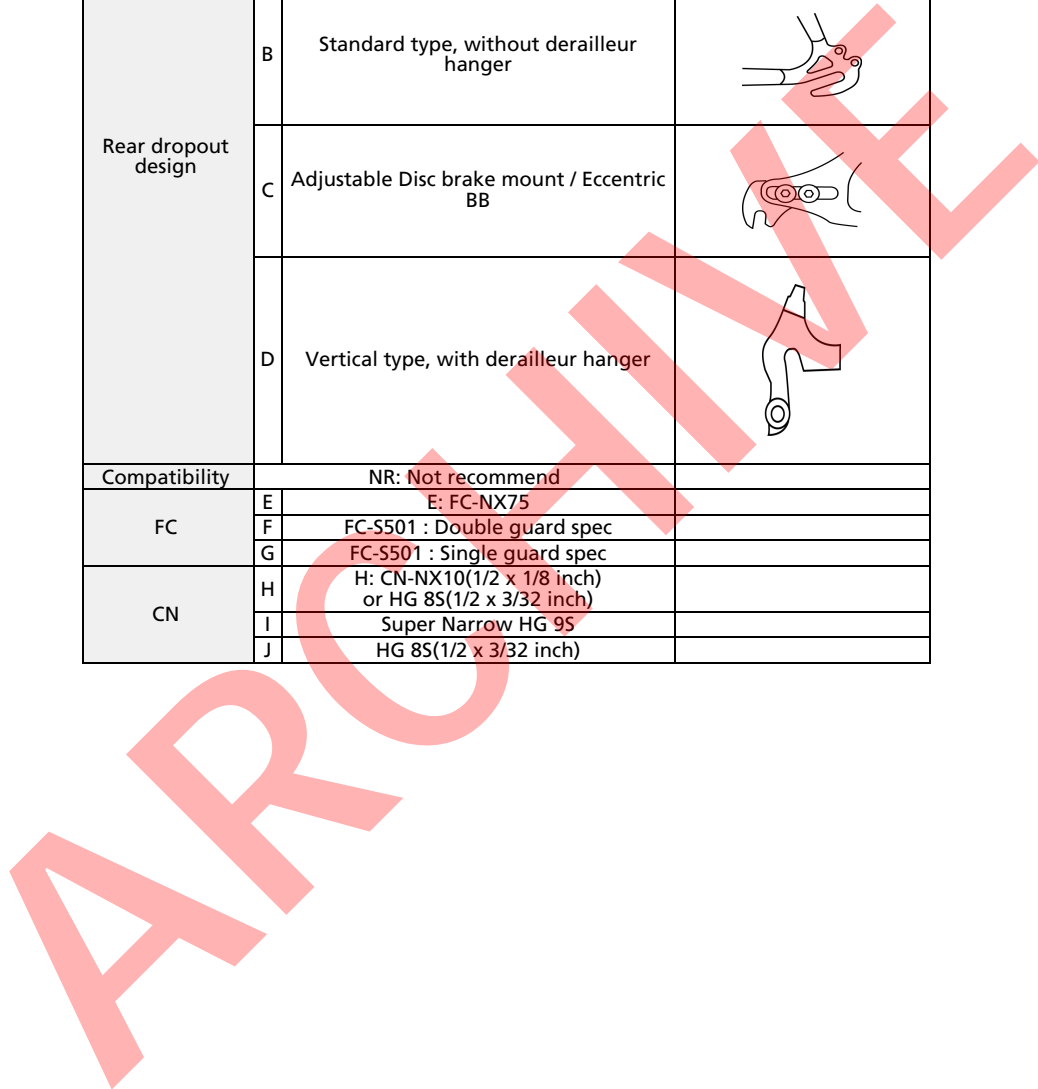
Gear	7-speed
	RD-A070
	SMART CAGE
11-28T	X
12-28T	X
13-28T	X
14-28T	X

ARCHIVE

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

C-471

Rear dropout design	A	Reversed (BMX) type, without derailleur hanger	
	B	Standard type, without derailleur hanger	
	C	Adjustable Disc brake mount / Eccentric BB	
	D	Vertical type, with derailleur hanger	
Compatibility	NR: Not recommend		
FC	E	E: FC-NX75	
	F	FC-S501 : Double guard spec	
	G	FC-S501 : Single guard spec	
CN	H	H: CN-NX10(1/2 x 1/8 inch) or HG 85(1/2 x 3/32 inch)	
	I	Super Narrow HG 95	
	J	HG 85(1/2 x 3/32 inch)	



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

*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.
	Model No.	Gear thickness (mm)	
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

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

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

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

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	-	-	X	-	-	-	-	CP-W1460	-	-
	-	X	-	-	-	-	-	CP-W1460	-	-
WH-R9100-C60 WH-R9100-C40	-	-	X	-	-	-	-	CP-W124	-	-
	-	X	-	-	-	-	-	CP-W124	-	-
WH-R9100-C24	-	-	X	CP-WH23	-	-	-	CP-W120	-	-
	-	X	-	-	-	-	-	CP-W020	-	-
WH-RS770-C30	-	-	X	-	-	-	-	CP-W1460	-	CP-W1460
	-	X	-	-	-	-	-	CP-W1460	-	-
WH-RS700-C30	-	-	X	-	-	-	-	CP-W124	-	CP-W124
	-	X	-	-	-	-	-	CP-W124	-	-
WH-RS500 WH-RS300 WH-RS11	-	-	X	CP-WH23	-	-	-	-	CP-W120	-
WH-RS11	-	X	-	-	-	-	-	CP-W020	-	-
WH-9000-C24-TU WH-RS330-CL	-	-	X	CP-W184	-	-	-	-	CP-W124	-
	-	X	-	-	-	-	-	CP-W024	-	-
WH-RX830	-	X	X	-	-	-	-	CP-W1220	-	CP-WH14 CP-WH14A
WH-RS100	-	X	X	-	-	-	-	CP-WH24	-	CP-FH53
WH-RS010-CL	-	X	X	-	-	-	-	CP-WH24	-	CP-FH53
WH-R501 WH-R501-A	X	X	-	CP-FH06	-	CP-FH31	-	CP-FH46	CP-WH24	-
	-	-	X	-	CP-FH08	-	-	-	CP-WH12	-
WH-RS170	-	X	-	CP-FH40 CP-FH41	-	-	-	CP-FH40 CP-FH41	CP-WH12	CP-WH12
	-	-	X	CP-FH08	-	-	-	-	CP-WH12	-
WH-RX010-CL	-	X	-	CP-FH40 CP-FH41	-	-	-	CP-FH40 CP-FH41	CP-WH12	CP-WH12
	-	-	X	CP-FH08	-	-	-	CP-FH40 CP-FH41	CP-WH12	-
WH-RX010	X	X	-	CP-FH08	-	-	-	CP-FH40 CP-FH41	CP-WH12	-
WH-U5000	-	X	X	-	-	-	-	CP-W122	-	-
WH-RS370	-	X	X	CP-FH08 CP-WH41	-	-	-	CP-WH41	CP-WH12	-

* For compact crank set

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

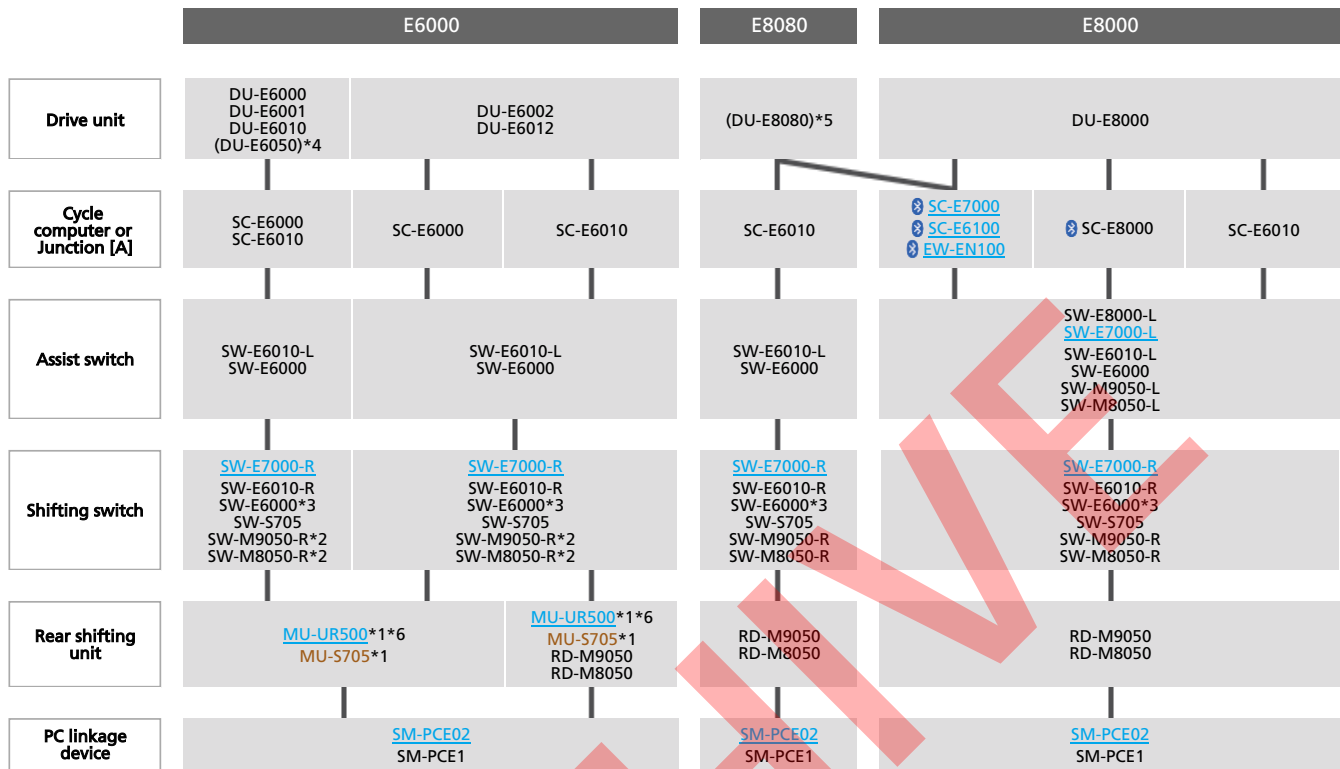
Spoke protector for Road

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	X	X	-	X	-	-	-	-	-	-	CP-FH06	CP-FH08	CP-FH05	CP-FH06
		-	-	-	-	X	-	-	-	-	-	CP-FH31	CP-FH08	CP-FH35	CP-FH31
		-	-	-	-	-	X	X	-	-	-	CP-FH31	CP-FH08	CP-FH35	CP-FH31
		-	-	-	-	-	-	-	X	-	-	-	-	CP-FH45	CP-FH46
7-speed	CS-HG200-7	-	-	-	-	-	-	X	-	-	-	-	-	CP-FH35	CP-FH50
	MF-TZ500-7 MF-TZ21	-	-	-	-	-	-	X	-	-	-	-	-	-	CP-HG22/ MF-TZ500-7-CP/ MF-TZ21-CP

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

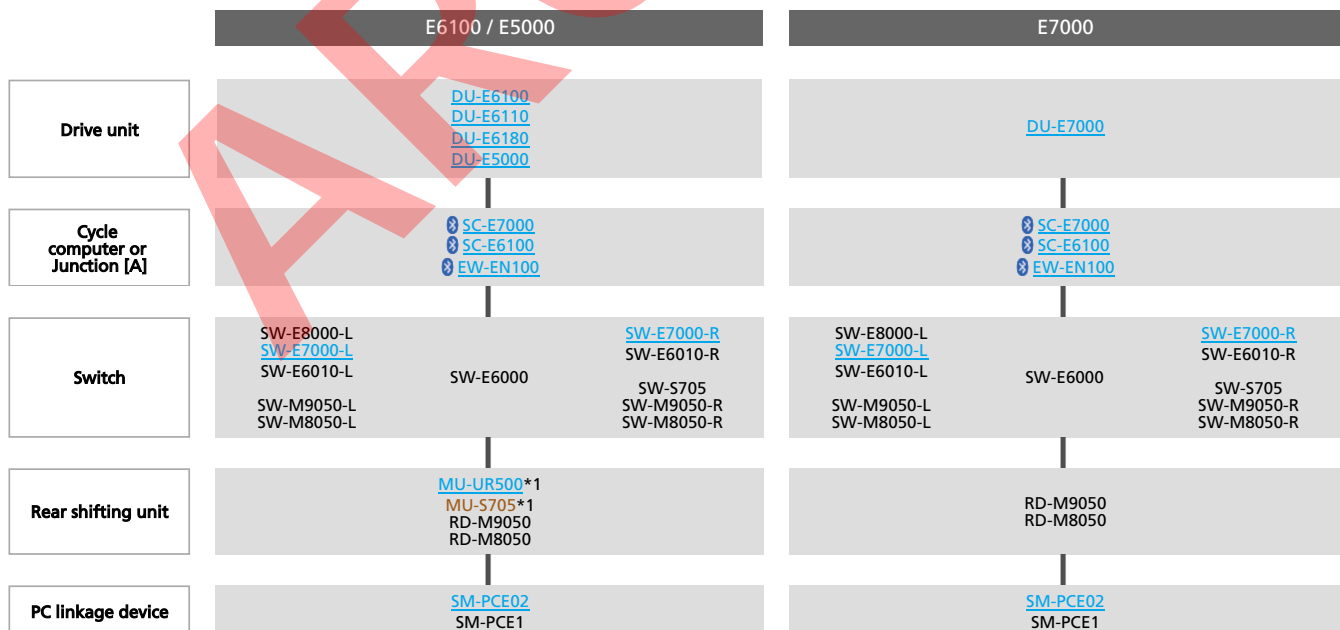
E-BIKE system (with E-TUBE PROJECT ver.3.4)

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 8 speed and 11 speed internal geared hub system only.



Limitation of function

- *1 Full automatic shift is available only with 8 speed and 5 speed internal gear hub system (Not available with Rear Derailleur)

SHIMANO STEPS front drive train compatibility

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

X: Yes

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

*2 Only for 53 mm chainline

E8000 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
Rear derailleur system	12-speed	SM-CRE80-12-B	-	with chain device (option)	-	CS-M9100-12	CN-M9100
	11-speed	SM-CRE80	-	with chain device (option)	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11
		SM-CRE80 44T	Double	-	-		
	10-speed	SM-CRE80	-	with chain device (option)	-	MTB 10-speed CS	CN-E6090-10
SM-CRE80 44T		Double	-	-			

E7000 series

Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
Rear derailleur system	12-speed	SM-CRE80-12-B	-	with chain device (option)	-	CS-M9100-12	CN-M9100
	11-speed	SM-CRE70-B	-	with chain device	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11
	10-speed	SM-CRE70-B	-	with chain device	-	MTB 10-speed CS	CN-E6090-10
	9-speed	SM-CRE70-B	-	with chain device	-	MTB 9-speed CS	CN-E6070-9

E6100 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	9/10-speed
	5-speed	SM-CRE61	Single / w/o	-	-	CS-C7000	8-speed
			Double	-	CT-S500	CS-S500	9/10-speed
Mechanical Internal geared hub	ALFINE 11-speed 8-speed	SM-CRE61	Single / w/o	-	-	SM-GEAR	8-speed
			Double	-	CT-S500	CS-S500	9/10-speed
			Single / w/o	-	CT-S510	SM-GEAR	8-speed
			Single w/o	-	-	SM-GEAR	8-speed
	NEXUS 8-speed	SM-CRE61	Double	-	CT-S500	CS-S500	9/10-speed
			Single / w/o	-	CT-S510	SM-GEAR	8-speed
			Single	-	-	-	8-speed
			w/o	-	-	-	CN-NX10
NEXUS 5-speed	SM-CRE61	Single	-	-	CS-C7000	8-speed	
		w/o	-	-	-	CN-NX10	
Rear derailleur system	11-speed	SM-CRE61	Double	-	-	MTB 11-speed CS	CN-HG901-11 CN-HG701-11 CN-HG601-11
	10-speed	SM-CRE61	Double	-	-	MTB 10-speed CS	CN-E6090-10
	9-speed	SM-CRE61	Double	-	-	MTB 9-speed CS	CN-E6070-9
	8-speed	NA					

E6000 series

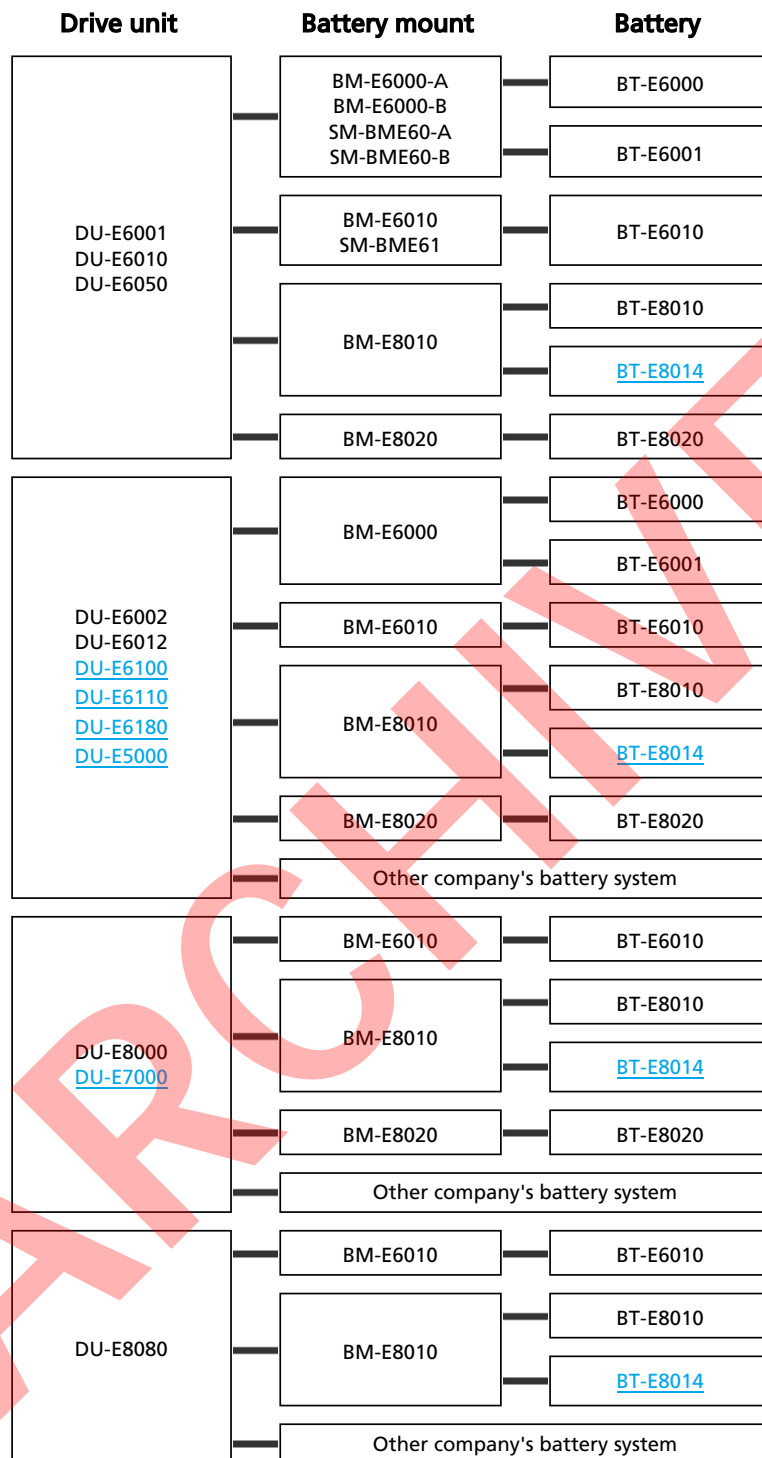
Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
DI2 Internal geared hub	11-speed 8-speed	SM-CRE60	Single / w/o	-	-	SM-GEAR	8-speed
			Double	-	CT-S500	CS-S500	9/10-speed
			Single / w/o	-	CT-S510	SM-GEAR	8-speed
Mechanical Internal geared hub	ALFINE 11-speed 8-speed	SM-CRE60	Single / w/o	-	-	SM-GEAR	8-speed
			Double	-	CT-S500	CS-S500	9/10-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	9/10-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 series

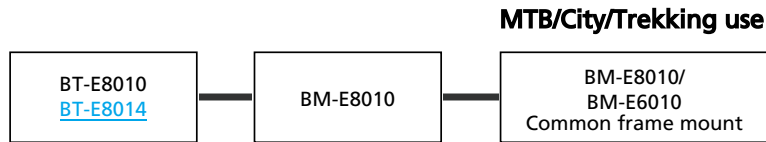
Shifting system	Speed	Chainring	Chain guard	Chain device	CT use	Rear sprocket	Chain
DI2 Internal geared hub	11-speed 8-speed	SM-CRE50	Single / w/o	-	-	SM-GEAR	8-speed
			Double	-	CT-S500	CS-S500	9/10-speed
	5-speed	SM-CRE50	Single / w/o	-	-	CS-C7000	8-speed
			Double	-	CT-S510	SM-GEAR	8-speed
Mechanical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

Battery

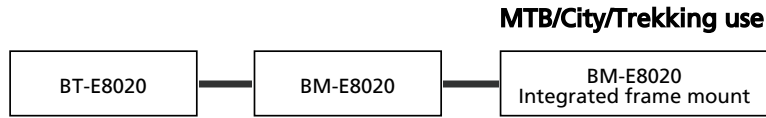
Batteries shipped in the country / region are different.



External frame mount type

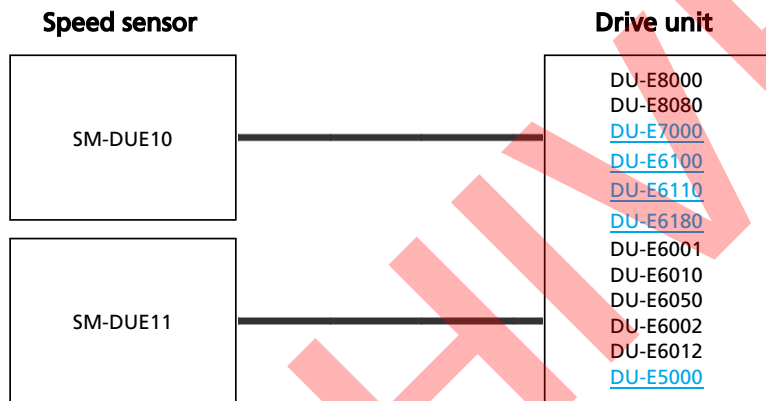


Integrated frame mount type



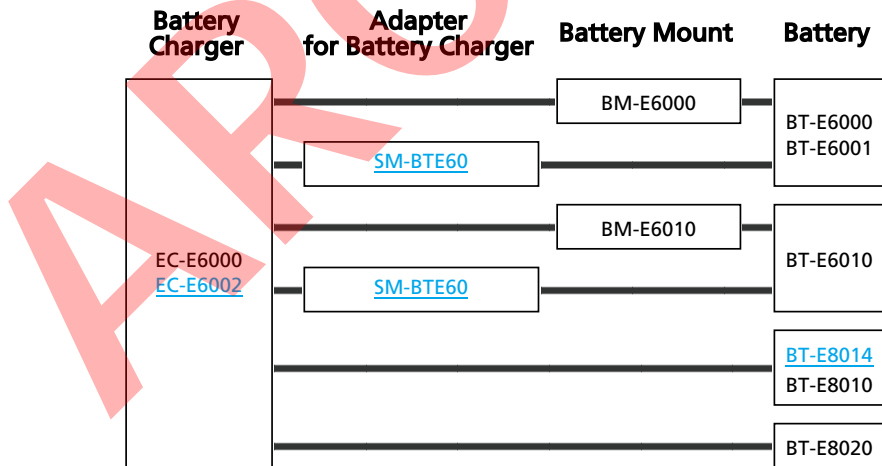
Speed sensor and drive unit compatibility

C-549



Battery and battery charger compatibility

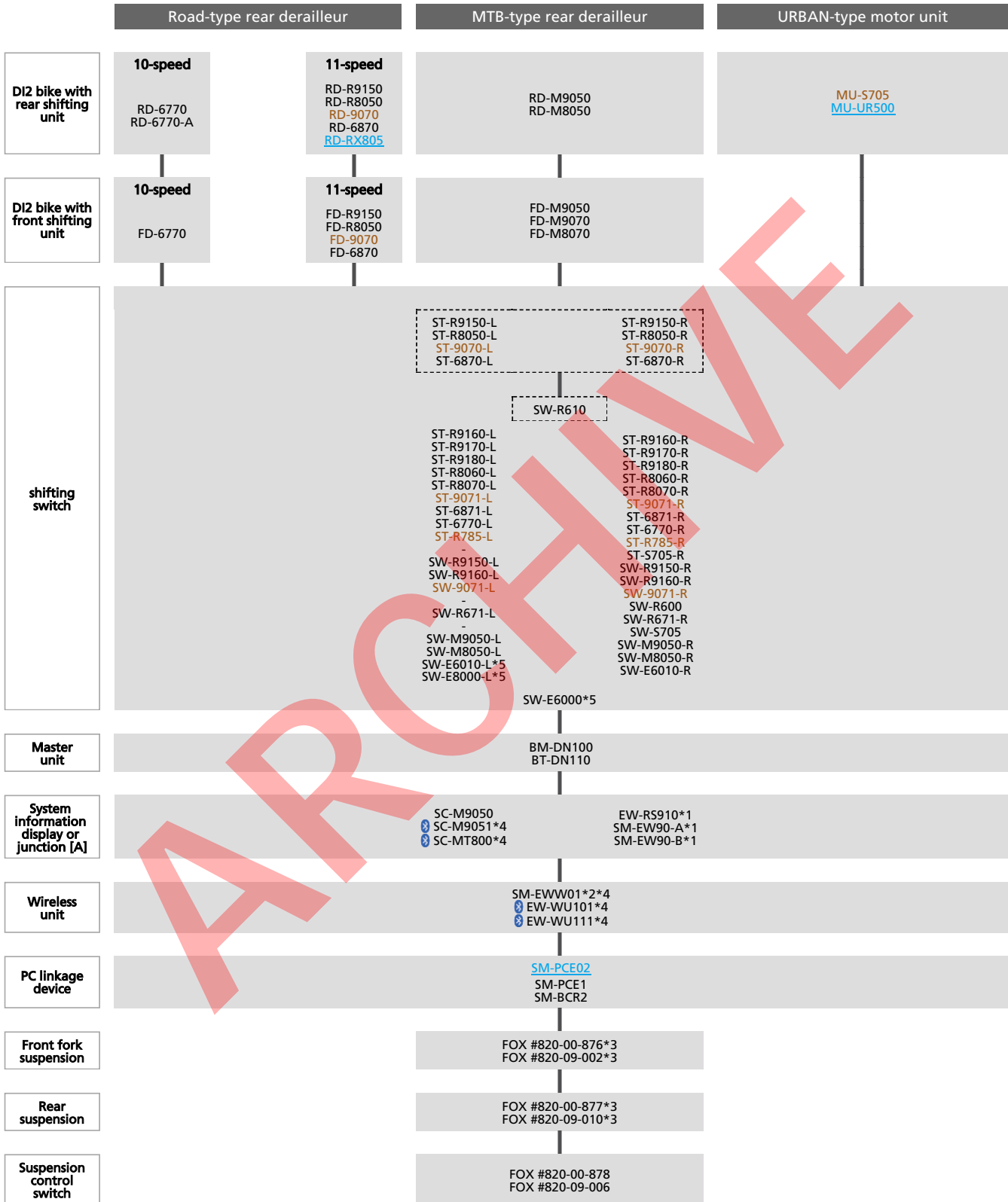
C-562



E-TUBE compatibility chart with E-TUBE PROJECT ver.3.4

C-473

DI2 with BM-DN100 / BT-DN110

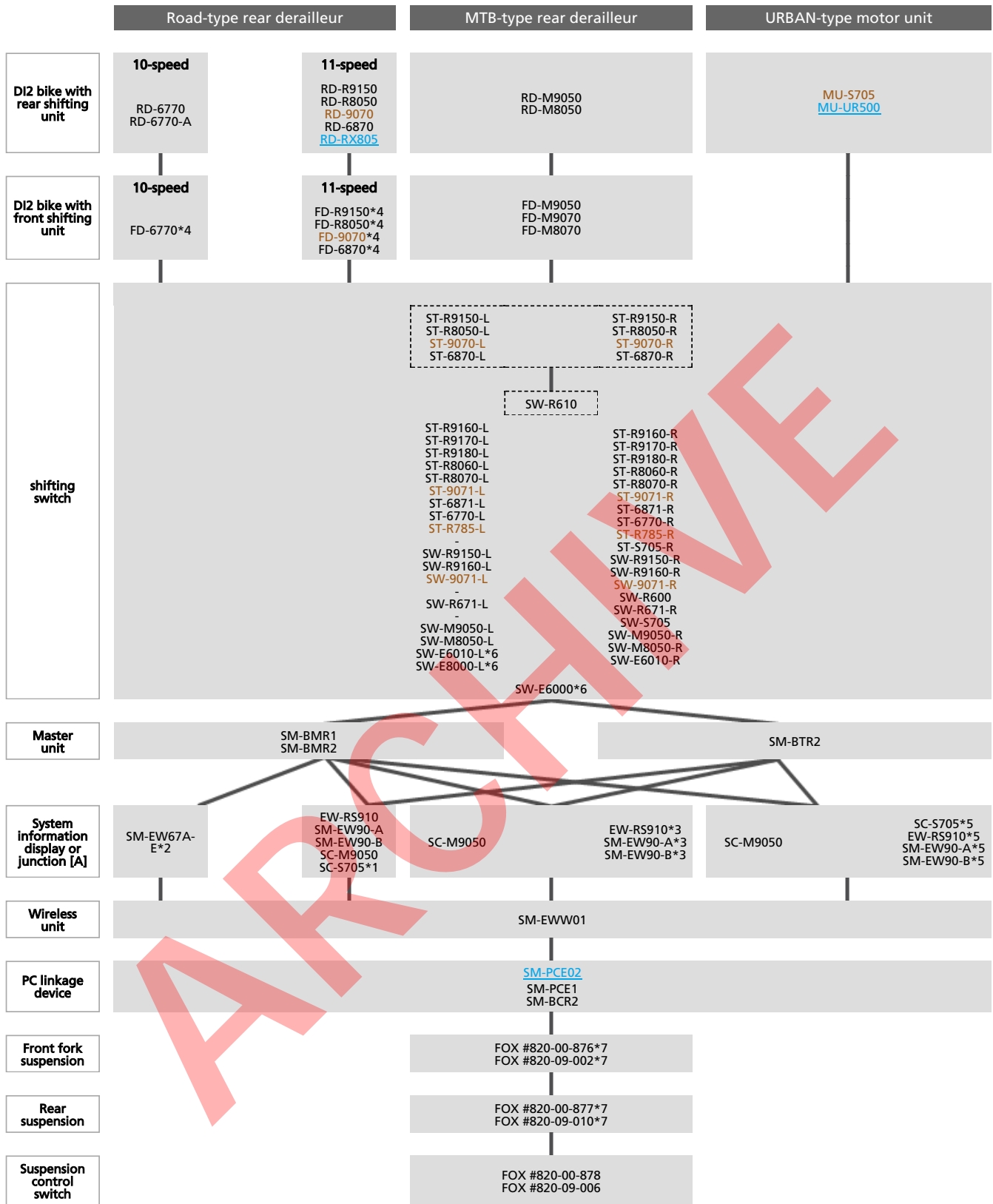


Limitation of function with BM-DN100 / BT-DN110

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

ARCHIVE

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



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

*1 SC-S705

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

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

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

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

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

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

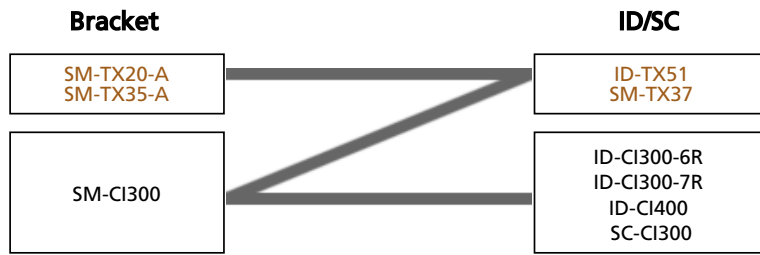
*6 Need to change Switch setting by E-TUBE PROJECT.

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

ARCHIVE

Compatibility between Bracket and ID/SC

C-548



ARCHIVE