microSHIFT

2016







ROAD 11speed











MEGA 40T
compatible



microSHIFT

2015-2016





INDEX

New product information	1 - 2
Cassettes	3
Road components	4 - 12
City components	13 - 15
MTB / Trekking components	16 - 21
Technical data	22 - 26

2015 New Product Information

Cassettes

microSHIFT is increasing the specifications of cassettes since the first supplying early of 2014. The main specifications added in 2015 are 11-32T for 11 speed and 11-40T for 11 speed & 10 speed to satisfy the demand of a wider range gear ratio for road & MTB riders.

MEGA 40T



Sliding
Engagement
Technology

MTB 10 speed front derailleur & rear derailleur

FD-M852D - Direct mount front derailleur for 40/28T, 38/26T with rear 10 speed.
FD-M853D - Direct mount front derailleur for 42/32/24T with rear 10 speed.
RD-M61L, RD-M61S - Economical type rear derailleur for 10 speed with a max. sprocket 36T.
RD-M78L - A rear derailleur with a wide capacity to cover a mega sprocket max. 40T, 11 speed or 10 speed.

FD-M853D



RD-M61L



RD-M78L
MEGA 40T
compatible



microSHIFT







2015 New Product Information

Road 11 speed groups

The 3rd generation Dual Control Levers is a brand new design with inner route cables, there're more ergonomic arrangement on brake lever & hood to provide the riders a more comfortable controlling and riding.The spirit of MIC (microSHIFT Independent Control) is keeping in the new design for it acquires a very positive response from market side since our first introduction in 2007. The capacity of rear derailleur are design for a rear sprocket max. 25T ~ 32T.

ARsis11



CENTOS11



Xpress shifters for road derailleur system

SL-R861 - For 11 speed road series, with bearing inside mechanism, without indicator.
SL-R859 - For 9 speed road series, without indicator.



microSHIFT

Cassettes

Sliding Engagement Technology

CS-G110
Cassette for 11 speed (11-40T), CP sprockets, with Al. bracket & Al. lock ring.

CS-H110
Cassette for 11 speed (11-32T, 11-40T), CP sprockets.

CS-G100
Cassette for 10 speed (11-28T, 11-36T, 11-40T), CP sprockets, with Al. bracket & Al. lock ring.

CS-H100
Cassette for 10 speed (11-28T, 11-32T, 11-36T , 11-40T), CP sprockets.

CS-H090
Cassette for 9 speed (11-28T, 11-32T), CP sprockets.

CS-H080
Cassette for 8 speed (12-32T), CP sprockets.

5 pieces in one





CS-G100 (11-28T)

NEW

CS-H100 (11-40T)
MEGA 40T





CS-H100 (11-28T)





CS-H100 (11-36T)



CS-H090 (11-32T)



Shift & Go Technology

ROAD

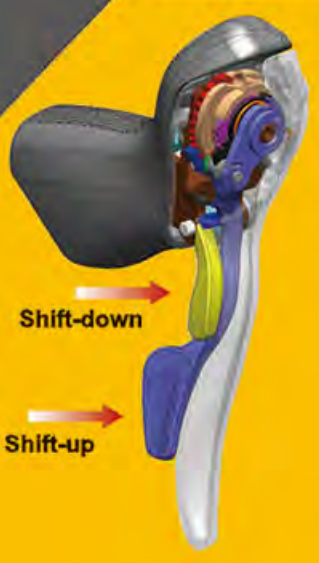
MIC technology
microSHIFT Independent Control

Independent Shift Levers

- Separate tapers to shift-up (down) with no confusion.
  No worry of unexpected braking when shifting
- Easy control from multiple directions.



SB-R5XX series



SB-R4XX series

Lineup & Compatibility

	microSHIFT models			Shimano Reference		
	Shifter	Front Derailleur	Rear Derailleur			
ARsis11	SB-R512C BS-C11	FD-R68 double chainring	RD-R68S	Dura - Ace Ultegra	9001 6800	11s 11s
CENTOS11	SB-R512B SL-R861 BS-A11	FD-R58 double chainring	RD-R58S	105	5800	11s
CENTOS	SB-R502E BS-A10	FD-R74E double chainring	RD-R57SE	105	5700	10s
R10	SB-R402K SL-R760-2	FD-R712 double chainring	RD-R51M	Tiagra	4600	10s
	BS-A10	FD-R74 double chainring	RD-R47S			
	SB-R403K SL-R760-3	FD-R730 50-39-30T FD-R732 52-39-30T	RD-R47	Tiagra	4603	10s
R9	SB-R492 SB-R492(S) SL-R769-2	FD-R352 double chainring	RD-R43M	Tiagra Sora	4500 3500	9s 9s
	BS-A09	FD-R329 double chainring	RD-R42S			
	SB-R493 SB-R493(S) SL-R769-3	FD-R353 50-39-30T	RD-R42	Tiagra Sora	4503 3503	9s 9s
R8	SB-R482 SB-R482(S) SL-R758-2	FD-R252 double chainring FD-R328 double chainring	RD-R32S	Sora Claris	3300 2400	8s 8s
	SB-R483 SB-R483(S) SL-R758-3	FD-R253 50-39-30T FD-R338 52-42-30T	RD-R32	Sora Claris	3303 2403	8s 8s

The specification of above models are compatible with Shimano derailleur system.

Road Components - I

ARsis11

2 x 11 speed

MIC technology
microSHIFT Independent Control

SB-R512C
Dual Control Levers, with inner route cables, Carbon brake levers, Al. shift levers. For double chainring & rear 11 speed.

Shift-down
(To bring the chain down to a lower sprocket) .
Max. 3 gears in one stroke.





Shift-up
(To bring the chain up to a higher sprocket) .
Max. 4 gears in one stroke.

NEW
SB-R512C
498g

FD-R68F
Cold forged Al. bracket, Carbon outer link, down pull, brazed on type. For double chainring & rear 11 speed. Option: clamp type 34.9mm FD-R68B

RD-R68S
Carbon outer link, sealed bearings inside pulleys, short cage for double chainring & rear 11s (rear sprocket max. 25-32T). Total capacity 35T.



NEW
RD-R68S 197g
sealed bearings
for sprocket max 25-32T

NEW
FD-R68
97g







To shift from top side





To shift from bottom side

Road Components - II

CENTOS 11

2 x 11 speed



NEW

SB-R512B (for 2 x11s) 498g

SB-R512B
Dual Control Levers, Al. brake levers and shift levers, black or white painted brake levers. For double chainring & rear 11 speed.



FD-R58F
Cold forged Al. bracket & outer link, black or white painted down pull, brazed on type.
For double chainring & rear 11 speed.
Option: clamp type 34.9mm FD-R58B

NEW

FD-R58
95g



RD-R58S
Full Al. black or white painted, short cage for double chainring & rear 11s (rear sprocket max. 25-32T).
Total capacity 35T.



NEW

RD-R58S 194g
for sprocket max 25-32T

Xpress+ Shifter

With bearings inside.
Light weight.
Light shifting.

SL-R861 **(for 2 x 11s)**
205g

SL-R861-2
Xpress plus shifter for flat type handlebar, bearings inside mechanism, For double chainring & rear 11 speed.



NEW

Option: White painted version



NEW

RD-R58S 194g
for sprocket max 25-32T





NEW

SB-R512B (for 2 x11s) 498g

NEW

FD-R58
95g



Road Components - III

CENTOS

2 x 10 speed

SB-R502E
Dual Control Levers, with inner route cables, Al. shift levers, silver / black anodized or painted white brake levers. For double chainring & rear 10 speed.

FD-R74BE
Cold forged Al. bracket & links,clamp type 34.9mm, silver / black anodized or painted white. For double chainring & rear 10 speed.
Option: brazed on type FD-R74FE

RD-R57SE
Full Al., silver / black anodized or painted white. short cage for double chainring & rear 10 speed (11-28T).

NEW

SB-R502E (for 2 x10s)
498g





FD-R74E
110g (clamp type)



RD-R57SE 193g

Silver version

FD-R74E
99g (brazed-on type)





NEW

SB-R502E (for 2 x10s) 498g



RD-R57SE 193g

Road Components - IV

R10

2/3x10 speed



SB-R402K (for 2 x10s) 430g
SB-R403K (for 3 x10s) 430g

SB-R402K
Dual Control Levers, resin shift levers, silver or black anodized brake levers. For double chainring & rear 10 speed.
Option: for 3 x 10s SB-R403K

SL-R760-2, SL-R760-3
Xpress plus shifters with optical gear read-out indicator. The left side shifter is provided with trimming function.
SL-R760-2 : for 2 x10 speed.
SL-R760-3 : for 3 x10 speed.

FD-R712B
Al. bracket & links, clamp type 34.9mm silver or blk .For double chainring & rear 10 speed max. sprocket ≦34T.
Option: brazed on type FD-R712F

FD-R730B, FD-R732B
Cold forged Al. bracket & links, clamp type 34.9mm, silver or blk anodized.
FD-R730B : for 50/39/30T & rear 10 speed.
FD-R732B : for 52/39/30T & rear 10 speed.
Option: brazed on type FD-R730F, FD-R732F



SL-R760-2 (for 2 x10s)
SL-R760-3 (for 3 x10s)
284g

RD-R47S
Full Al., short cage for double chainring & rear 10 speed (11-28T).
Option: long cage for 3x10s RD-R47

RD-R51M
Full Al., medium cage for double chainring & rear 10s 11-30 up to 34T sprocket.



RD-R47 226g
RD-R47S 218g

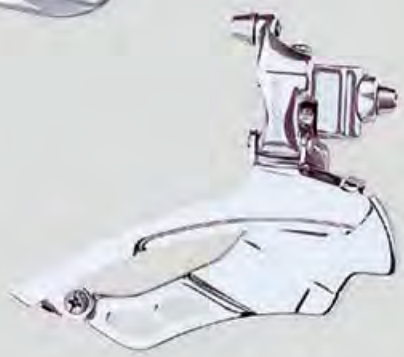


FD-R712
118g (clamp type)



RD-R51M
220g

for mega sprocket
30-34T



FD-R730
117g (brazed-on type)

Road Components - V

R9

2/3 x 9 speed

SB-R492
Dual Control Levers, Al. brake levers, Resin / steel shift levers. For double chainring & rear 9 speed.
Option: for 3 x 9s SB-R493
short reach SB-R493(S)
SB-R492(S)





SB-R492 (for 2 x 9s)
SB-R493 (for 3 x 9s)
430g

SL-R769-2, SL-R769-3
Xpress shifters with optical gear read-out indicator. The left side shifter is provided with trimming function.
SL-R769-2 : for 2 x 9 speed.
SL-R769-3 : for 3 x 9 speed.

FD-R352B
Al. bracket & links..clamp type 34.9mm.
For double chainring & rear 9 speed.
max. sprocket ≦ 34T.
Option: brazed on type FD-R352F

FD-R353B
Al. bracket & links..clamp type 34.9mm.
For 50/39/30T & rear 9 speed.
max. sprocket ≦ 34T.
Option: brazed on type FD-R353F.



FD-R353B
140g (clamp type)

RD-R42S
Al.main parts, steel short cage for double chainring & rear 9/ 10 speed (11-28T).
Option: long cage for triple RD-R42

RD-R43M
Al. main parts, steel medium cage for double chainring & rear 9/10 speed 11 ~ 30 up to 34T sprocket.





SL-R769-2 (for 2 x 9s)
SL-R769-3 (for 3 x 9s)
282g



FD-R352B
125g (clamp type)



RD-R43M
291g

for mega sprocket
30-34T



RD-R42S
288g

Road Components - VI

R8

2/3 x 8 speed



SL-R758-2 (for 2 x 8s)
SL-R758-3 (for 3 x 8s)
279g

SB-R482
Dual Control Levers, Al. brake levers. Resin / steel shift levers. For double chainring & rear 8 speed.
Option: for 3 x 8s SB-R483
short reach SB-R483(S)
SB-R482(S)

SL-R758-2, SL-R758-3
Xpress shifters with optical gear read-out indicator. The left side shifter is provided with trimming function.
SL-R758-2 : for 2 x 8 speed.
SL-R758-3 : for 3 x 8 speed.

FD-R252B
Al. bracket & outer link, clamp type 34.9mm. For double chainring & rear 8 speed max. sprocket ≦ 34T.
Option: brazed on type FD-R252F

FD-R253B
Al. bracket & outer link, clamp type 34.9mm. For 50/39/30T & rear 8 speed max. sprocket ≦ 34T.
Option: brazed on type FD-R253F

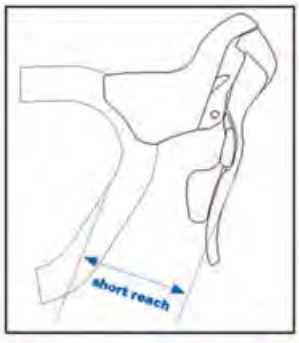
RD-R32S
Resin/steel main parts, steel short cage for double chainring & rear 8/9 speed (11-28T).
Option: long cage for triple RD-R32



SB-R482 (for 2 x 8s)
SB-R483 (for 3 x 8s)
430g



RD-R32S



Short reach option for lady's small hand

SB-R492(S) , SB-R493(S)
SB-R482(S) , SB-R483(S)
SB-R472(S) , SB-R473(S)



Option: shift cable adjuster



FD-R252B
126g (clamp type)



FD-R253B
141g (clamp type)

Non-group Components

BS-C11
Bar end shifters, Carbon shift levers..
Left side micro-index, right side index.
For double/ triple chainring & rear 11s.

BS-A11
Bar end shifters, Al. shift levers.
Left side: micro-index, right side: index.
For double/ triple chainring & rear 11s.

BS-A10, BS-T10
Bar end shifters, Al. shift levers.
Left side: micro-index, right side: index.
For double/ triple chainring & rear 10s.
Option: right side index / friction
transferable. BS-T10

BS-A09, BS-T09
Bar end shifters, Al. shift levers..
Left side micro-index, right side index.
For double/ triple chainring & rear 9 speed.
Option: right side index / friction
transferable. BS-T09

SL-D10 , SL-D09
Down tube shifters, Al. shift levers..
Left side micro-index, right side index.
SL-D10 for 2/3 x 10 speed
SL-D09 for 2/3 x 9 speed

SB-R472
Dual Control Levers, Al. brake levers.
Resin / steel shift levers. For double chainring & rear 7 speed.
Option: for 3 x 7s SB-R473
short reach SB-R472(S)
SB-R473(S)



Bar End Shifters





BS-C11 136g
(for 11 speed)





BS-A11 140g
(for 11 speed)

BS-A10 140g
(for 10 speed)





Ergonomic hoods





Option: right side index /
friction transferable
BS-T10, BS-T09

BS-A09 162g
(for 9 speed)





Down Tube Mount Shifters





SL-D09 70g

Dual Control Levers for 7 speed





SB-R472 (for 2x7s)
SB-R473 (for 3x7s)
430g

Non-group Components

Flat Bar Shifters



SL-R761 292g



NEW

SL-R859-2 225g

SL-R761
Xpress plus (with bearings inside mechanism) shifters with indicator. For 2 x 11 speed, The left side shifter is provided with trimming function.

SL-R859-2
Xpress shifters without indicator. For 2 x 9 speed, The left side shifter is provided with trimming function.

FD-R328B, FD-R329B
Al. bracket, steel clamp 31.8mm.
For double chainring.
FD-R328B : for 2 x 8 speed.
FD-R329B : for 2 x 9 speed.
Option: brazed on type FD-R328F, FD-R329F

FD-R338B, FD-R339B
Al. bracket, steel clamp 31.8mm.
For 52/42/30T chainring.
FD-R338B : for 52/42/30T x 8 speed.
FD-R339B : for 52/42/30T x 9 speed.
Option: brazed on type FD-R338F FD-R339F

FD-R74SB
Cold forged Al. bracket & links, clamp type 34.9mm, silver anodized, with a small size chain guide.
For double chainring & rear 10 speed 11 ~30 up to 34T sprocket.
Option: brazed on type FD-R74SF

FD-R52SB
Cold forged Al. bracket & links, clamp type 31,8mm, silver anodized, with a small size chain guide.
For double chainring & rear 9 speed 11 ~30 up to 34T sprocket.
Option: brazed on type FD-R52SF

Front Derailleurs

For rear sprocket max. ≦ 28T

FD-R328 (for 2 x 8 s)
FD-R329 (for 2 x 9 s)



FD-R338 (for 3 x 8 s)
FD-R339 (for 3 x 9 s)



For mini-frame or short chainstay frame

FD-R74S (for 2 x 10 s)
95.5g (clamp type)



FD-R52S (for 2 x 9 s)
98g (clamp type)





Shift & Go Technology



CITY



Lineup & Compatibility

Shifter	microSHIFT models Front Derailleur	Rear Derailleur	Shimano Reference	
TS83-10 SL-A10	FD-R632 52-39-30T FD-R630 50-39-30T	RD-R47	10s	ROAD with flat handlebar
	FD-R62 double chainring	RD-R47S RD-R51M		
TS83-9 SL-A09	FD-R639 50-39-30T FD-R439 52-42-30T	RD-R47	9s	
	FD-R42 double chainring	RD-R47S RD-R43M		
TS73-8	FD-R438 52-42-30T	RD-R42	8s	
	FD-R42 double chainring	RD-R42S		
SL-N768 SL-N758 DN85-8			Alfine Inter 8 Nexus inter 8	Shifters for Interal gear hub
SL-N757 TN70-7 DN85-7 MN28-7			Nexus Inter 7	
TN70-5 DN37-5			Nexus Inter 5	
DN85-3 DN35-3 MN27-3			Nexus Inter 3	

The specification of above models are compatible with Shimano derailleur & gear hub system.

Components for road with flat handlebar

Super light weight CNC thumb shifters 112g

SL-A11 (for 11s)
SL-A10 (for 10s)
SL-A09 (for 9s)





Option: right side index / friction transferable
SL-T10, SL-T09

SL-A11, SL-A10, SL-A09, SL-T10, SL-T09
Super light weight thumb shifters, CNC bracket, micro adjusting barrels.
Left side: micro-index, right side: index
SL-A11 for 2/3 x 11 speed.
SL-A10 for 2/3 x 10 speed.
SL-A09 for 2/3 x 9 speed.
Option: right side index / friction transferable
SL-T10 , SL-T09

TS83-10, TS83-9, TS73-8
Thumb-tap shifters with compact optical gear indicator. Left side: 2/3 speed index with trimming mech.
Right side: Index for rear.
TS83-10 for 2/3 x 10 speed.
TS83-9 for 2/3 x 9 speed.
TS73-8 for 2/3 x 8 speed.

FD-R632
FD-R630



FD-R42



FD-R632B, FD-R630B, FD-R62B, FD-R639B
Cold forged Al., clamp type 34.9mm, for flat bar shifters.
FD-R632 for 52/39/30T & rear 10s.
FD-R630 for 50/39/30T & rear 10s.
FD-R62 for double & rear 9/10s.
FD-R639 for 50/39/30T & rear 9s.
Option: brazed on type FD-R632F FD-R630F, FD-R62F, FD-R639F

FD-R639



FD-R42B, FD-R439B, FD-R438B
Cold forged Al., clamp type 31.8mm, for flat bar shifters.
FD-R42 for double & rear 8/9s.
FD-R439 for 52/42/30T & rear 9s.
FD-R438 for 52/42/30T & rear 8s.
Option: brazed on type FD-R42F, FD-R439F, FD-R438F.



FD-R439

FD-R42H, FD-R439H, FD-R438H
Cold forged Al., clamp type 31.8mm, special design for 20" frame
FD-R42H for 2 x 8/9s, chainstay angle 70 ~77 degree
FD-R439H for 3 x 9s, chainstay angle 72 ~75 degree
FD-R438H for 3 x 8s, chainstay angle 72 ~75 degree.



TS83-10
240g

For 20" frame

FD-R439H





TS83-9
240g



City components - II

Shimano Alfine / Nexus series compatible

SL-N08
CNC thumb shifters for Alfine / Nexus Inter 8 (Shimano compatible).



SL-N08 **for Inter 8**

BS-N08
Bar end mount shifters for Alfine / Nexus Inter 8 (Shimano compatible).



BS-N08 **for Inter 8**

SL-N768
Xpress shifters with optical gear read-out indicator, Al. shift lever. Compatible with Alfine inter 8 & Nexus inter 8.



SL-N768 **for Inter 8**

SL-N758, SL-N757
Xpress shifters with optical gear read-out indicator.
SL-N758 Alfine & Nexus inter 8 compatible.
SL-N757 Nexus inter 7 compatible.



SL-N758 **for Inter 8**
SL-N757 **for Inter 7**

TN70-7
Thumb-tap shifters with compact optical gear indicator.
TN70-7 Nexus inter 7 compatible.

TN70-7 **for Inter 7**



DN85-8, DN85-7, DN85-3
Compact twist type shifters with easy read-out indicator.
DN85-8 Nexus inter 8 compatible
DN85-7 Nexus inter 7 compatible
DN85-3 Nexus inter 3 compatible



DN85-8 **for Inter 8**
DN85-7 **for Inter 7**

MN28-7, MN27-3
Standard twist type shifters.
MN28-7 Nexus inter 7 compatible.
MN27-3 Nexus inter 3 compatible.

BC-01
Connector (bell crank) for Nexus inter 3 gear hub.

DS35-L2, DS35-6R
Compact twist type shifters with easy read-out indicator for City bike.
DS35-L2 dynamo on/off controller
DS35-6R index 6 speed



MN27-3
for Inter 3



DN85-3
for Inter 3



BC-01
Connecter for Nexus Inter 3 gear hub.



DS35-L2
dynamo controller



DS35-6R



Shift & Go Technology

Sliding **E**ngagement **T**echnology

MTB / trekking

Active Motion rear derailleurs

- In-line links structure supplies a fast / accurate shifting performance.
- The geometric sequence mechanism of new design satisfies the demand from a extreme riding style, no worry of RD to hit the chain stay.





MEGA 40T
compatible

Lineup & Compatibility

	microSHIFT models			Shimano Reference	
	Shifter	Front Derailleur	Rear Derailleur		
XCD	SL-M860-2 SL-M850-2	FD-M852 40-28T , 38-26T	RD-M85S		
	SL-M10 ● BS-M10 ●		RD-M78L ●	XT , LX	10s
	SL-M860-3 SL-M850-3	FD-M853 42-32-24T	RD-M85L		
XLE	SL-M760-2	FD-M852 40-28T , 38-26T	RD-M76S RD-M61S ●	LX , Deore	10s
	SL-M10 ● BS-M10 ●				
	SL-M760-3	FD-M853 42-32-24T	RD-M76L RD-M61L ●		
XE MARVO	SL-M769-3	FD-M64 44-32-22T	RD-M59L RD-M64L		
	SL-M859 SL-T09 ● BS-T09 ●			LX , Deore	9s
	SL-M769-2	FD-M642 36-22T	RD-M64S		
MARVO LT	SL-M759-3 TS70-9 ● DS85-9 ● BS-T09 ●	FD-M50 44-32-22T	RD-M48L RD-M48S	Alivio Acera Altus	9s 9s 9s
mezzo	TS70-8	FD-M42 ● 42-32-22T, 48-38-28T FD-M20 42-34-24T FD-M22 42-32-22T, 48-38-28T	RD-M45L RD-M45S	Alivio Acera	8s 8s
	TS38-8 ● DS85-8 ●				
	TS70-7 ● TS38-7 ● DS85-7 ● MS25-7 ● MS29-7 ●		RD-M35L ● RD-M35S ● RD-M25L ● RD-M25S ●	Altus TX	8s 7s

The specification of above models are compatible with Shimano derailleur system.

Models marked with ' ● ' are non-group components.

MTB / trekking components - I

XCD

2/3 x 10 speed

SL-M860-2, SL-M860-3
Light weight Xpress plus shifters without gear indicator, bearings inside mechanism.
SL-M860-2: for 2 x10s.
SL-M860-3: for 3 x10s.

Xpress+ Shifter

With bearings inside.
Light weight.
Light shifting.

SL-M860-2 **(for 2 x 10s)**
SL-M860-3 **(for 3 x 10s)**
207g



SL-M850-2, SL-M850-3
Light weight Xpress shifters without gear indicator.
SL-M850-2: for 2 x10s.
SL-M850-3: for 3 x10s.

FD-M853B
Full Al., wild link, CNC outer link, dual pull, steel chain guide, 34.9mm clamp. for 42/32/24T & rear 10 speed.
Option : Direct mount **FD-M853D**
(Dual pull or top pull.)

FD-M852B
Full Al., wild link, CNC outer link, dual pull, steel chain guide, 34.9mm clamp. for 40/28T, 38/26T & rear 10 speed.
Option : Direct mount **FD-M852D**
(Dual pull or top pull.)



Xpress Shifter

Light weight.
Light shifting.

SL-M850-2 **(for 2 x 10s)**
SL-M850-3 **(for 3 x 10s)**
225g

RD-M85L
Full Al., CNC outer link & outer plate, dual spring, for rear sprocket max. 36T, long cage, total capacity 43T.

RD-M85S
Full Al., CNC outer link & outer plate, dual spring, for rear sprocket max. 36T, short cage, total capacity 35T.

FD-M852B (Clamp type)
161g

CNC machined outer link.



NEW

FD-M853D (Direct mount)
157g

Dual pull or top pull.
CNC machined outer link.



Active Motion mechanism.
Full Aluminum.
CNC machined.



RD-M85L 204g
RD-M85S 200g

MTB / trekking components - II

XLE

2/3 x 10 speed



SL-M760-2 **(for 2 x 10s)**
SL-M760-3 **(for 3 x 10s)**
286g

SL-M760-3
Xpress shifters with optical gear read-out indicator, Al. shift lever.
Left side: Index for triple.
Right side: Index 10 speed.

SL-M760-2
Xpress shifters with optical gear read-out indicator, Al. shift lever.
Left side: Index for double.
Right side: Index 10 speed.

FD-M853B
Full Al., wild link, CNC outer link, dual pull, steel chain guide, 34.9mm clamp. for 42/32/24T & rear 10 speed.
Option : Direct mount **FD-M853D**
(Dual pull or top pull.)

FD-M852B
Full Al., wild link, CNC outer link, dual pull, steel chain guide, 34.9mm clamp. for 40/28T, 38/26T & rear 10 speed.
Option : Direct mount **FD-M852D**
(Dual pull or top pull.)



Active Motion structure.
Full Aluminum.
CNC machined.

RD-M76L 204g
RD-M76S 200g

RD-M76L
Full Al., CNC outer link, dual spring, for rear sprocket max. 36T, long cage, total capacity 43T.

RD-M76S
Full Al., CNC outer link, dual spring, for rear sprocket max. 36T, short cage, total capacity 35T.



NEW

FD-M853D (Direct mount)
157g

Dual pull or top pull.
CNC machined outer link.



FD-M852B (Clamp type)
161g

CNC machined outer link.

MTB / trekking components - III

XE MARVO

2/3 x 9 speed

SL-M769-2, SL-M769-3
Xpress Shifters with optical gear read-out indicator, Al. shift lever.
Left side: Index for double or triple.
Right side: Index 9 speed.





SL-M769-2 **(for 2 x 9s)**
SL-M769-3 **(for 3 x 9s)**
287g

FD-M64
169g

CNC machined outer link.



FD-M64
Full Al., wild link, CNC outer link, dual pull, steel chain guide, 34.9mm clamp.
FD-M64 for 44/32/22T & rear 9 speed.

FD-M642
Full Al., wild link, CNC outer link, dual pull, steel chain guide, 34.9mm clamp.
FD-M642 for 36/22T & rear 9 speed.



SL-M859
225g



RD-M64L
Full Al., CNC outer link & outer plate, dual spring, for rear sprocket max. 34T, long cage, total capacity 45T.

RD-M64S
Full Al., CNC outer link & outer plate, dual spring, for rear sprocket max. 34T, short cage, total capacity 35T.



RD-M59L
223g

Full Aluminum.
CNC machined.
Active Motion
(for extreme riding style)

RD-M59L
Full Al., CNC outer link & outer plate, for rear sprocket max. 34T, long cage, total capacity 45T.



Full Aluminum.
CNC machined.
Dual spring.
(for trekking)

RD-M64L 233g
RD-M64S 220g

MARVO LT

3 x 9 speed

SL-M759-3
Xpress Shifters with optical gear read-out indicator.
Left side: Index for triple.
Right side: Index 9 speed.





SL-M759-3 (for 3 x 9s)

FD-M50
One piece Al. bracket & clamp for 34.9 mm, dual pull, 44/32/22T & rear 9s.

RD-M48L
Al. main parts, steel plates, long cage, total capacity 45T.



RD-M48L 313g
RD-M48S 303g

CNC machined outer link
Active Motion
(for extreme riding style)

FD-M50
140g



RD-M48S
Al. main parts, steel plates, for rear sprocket max. 34T, short cage, total capacity 35T.

MTB / trekking components - IV

mezzo

3 x 8 speed



RD-M45L 310g
RD-M45S 308g

TS70-8
285g



TS70-8
Thumb-tap shifters with optical gear indicator, index for triple & rear 8s.

FD-M20, FD-M22
One piece Al. bracket, steel clamp
For 34.9mm, dual pull.
FD-M20 for 42/34/24T & rear 7/8s.
FD-M22 for 42/32/22T, 48/38/28T & rear 7/8s.

RD-M45L, RD-M45S
Al. main parts, steel plates for 8/9 Speed, rear sprocket max. 34T.
RD-M45L total capacity 45T.
RD-R45S total capacity 39T

FD-M22
(42/32/22T,
48/38/28T)
152g





FD-M20
(42/34/24T)
143g

Non-group Components

Twist type shifters



DS85-8



DS85-9, DS85-8, DS85-7
Compact twist type shifters with easy read-out indicator.
Left side: Index or friction for front..
Right side: Index for rear.
DS85-9 for 3 x 9 speed.
DS85-8 for 3 x 8 speed.
DS85-7 for 3 x 7 speed.

MS25-8, MS25-7, MS25-6
Standard twist type shifters.
Left side: Index or friction for front.
Right side: Index for rear.
MS25-8 for 3 x 8 speed.
MS25-7 for 3 x 7 speed.
MS25-6 for 3 x 6 speed.

MS29-8, MS29-7, MS29-6
Standard twist type shifters.
Left side : Index or friction for front.
Right side: Index for rear.
MS29-8 for 3 x 8 speed.
MS29-7 for 3 x 7 speed.
MS29-6 for 3 x 6 speed.



MS29-7





MS25-7



MTB / trekking components - V

Non-group Components

Bar end mount shifters

SL-M10
CNC thumb shifters for MTB 10 speed derailleur (Shimano compatible).
Left side: micro-index.
Righ side: index (10 speed) / friction transferable.

BS-M10
Bar end mount shifters for MTB 10 spd derailleur (Shimano compatible).
Left side: micro-index.
Righ side: index (10 speed) / friction transferable.



BS-M10
150g

CNC Thumb shifters



SL-M10
128g

Front Derailleurs

FD-M42
One piece Al. bracket & clamp 34.9 mm, dual pull, for 42/32/22T (48/38/28T) & rear 8s.



FD-M42
(48/38/28T,
42/32/22T)
147g

Rear Derailleurs

RD-M78L
Full Al. for 10 or 11 speed rear sprocket max. 36-40T, total capacity 47T

RD-M61L, RD-M61S
Al. bracket, steel plates, for 10 speed rear sprocket max. 36T.
RD-M61L total capacity 43T.
RD-M61S total capacity 35T.

RD-M35L, RD-M35S
Al. bracket, steel plates, for rear sprocket max. 34T.
RD-M35L total capacity 45T.
RD-M35S total capacity 39T.

RD-M25L, RD-M25S
Resin/ steel, economical type, for rear sprocket max. 34T.
RD-M25L total capacity 45T.
RD-M25S total capacity 39T.

NEW



RD-M78L 206g
MEGA 40T
compatible

NEW



RD-M61L
281g



RD-M25S
284g



RD-M35L
303g

TS70-9, TS70-7
Thumb-tap shifters with optical gear indicator.
TS70-9 index for triple & rear 9s
TS70-7 index for triple & rear 7s.

TS38-8, TS38-7
Economic Thumb-tap shifters with optical gear indicator.
TS38-8 index for triple & rear 8s
TS38-7 index for triple & rear 7s.

Thumb-tap shifters





TS70-9
282g





TS38-7
242g

Front Deraillur - ROAD

With Drop type Handlebar

Series	ARSIS11		CENTOS11	CENTOS	R10			R9	
Model No.	FD-R68-B FD-R68-F		FD-R58-B FD-R58-F	FD-R74E-B FD-R74E-F	FD-R712-B FD-R712-F	FD-R732-B FD-R732-F	FD-R730-B FD-R730-F	FD-R352-B FD-R352-F	FD-R353-B FD-R353-F
Chain Ring	Double			Double		Triple		Double	Triple
Cassette Compatibility	10							9	
Top Gear Teeth	50-56T			50-56T		52T(39T-30T)	50T(39T-30T)	46-52T	50T(39T-30T)
Capacity	16T			16T		22T	20T	16T	20T
Route Type	Down Pull								
Chainstay Angle	61-66			61-66		63-66		61-66	63-66
Mount Type	B: Band type / F: Brazed-on type								
Chain Line	43.5mm			43.5mm		45.0 mm		43.5mm	45.0 mm
Band Diameter	*34.9 / *31.8 (1)								
Front Clamp Band	Cold forged Aluminum			Cold forged Aluminum (Silver or Black)				Aluminum	
Rear Clamp Band									
Outer Link	Carbon wrapped over cold forged Al.								
Inner Link	Cold forged Aluminum							Steel	
Chain Guide	Steel C.P								
Average Weight	97g (F)	95g (F)		99g (F)	96g (F)	117g (F)	119g (F)	125g (B)	140g (B)

Series	R9		Non-group								
Model No.	FD-R252-B FD-R252-F	FD-R253-B FD-R253-F	FD-R74-B FD-R74-F	FD-R729-B FD-R729-F	FD-R739-B FD-R739-F	FD-R74S-B FD-R74S-F	FD-R52S-B FD-R52S-F	FD-R329-B FD-R329-F	FD-R328-B FD-R328-F	FD-R339-B FD-R339-F	FD-R338-B FD-R338-F
Chain Ring	Double	Triple	Double	Double	Triple	Double				Triple	
Cassette Compatibility	8		10	9		10	10 / 9	9	8	9	8
Top Gear Teeth	46-52T	50T(39T-30T)	50-56T	50-56T	50T(39T-30T)	36~50T	36-50T	50-56T		52T(42T-30T)	
Capacity	16T	20T	16T	16T	20T	14T	14T	16T		22T	
Route Type	Down pull										
Chainstay Angle	61-66	63-66	61-66	61-66	63-66	61-66				63-66	
Mount Type	B: Band type / F: Brazed-on type										
Chain Line	43.5mm	45.0mm	43.5mm	43.5mm	45.0 mm	43.5mm				45.0mm	
Band Diameter	ø34.9 / ø31.8 (1)					ø31.8 / ø28.6 (2)					
Front Clamp Band	Aluminum				Cold forged Aluminum	Steel					
Rear Clamp Band						Aluminum					
Outer Link											
Inner Link	Steel		Aluminum			Steel					
Chain Guide	Steel C.P.										
Average Weight	126g (B)	141g (B)	99g (F)	99g (F)	121g (F)	84.5g (F)	86.5g (F)	123g (F)	123g (F)	126g (F)	126g (F)

With Flat type Handlebar

Series	Non-group								20" frame		
Model No.	FD-R62-B FD-R62-F	FD-R62S-B FD-R62S-F	FD-R632-B FD-R632-F	FD-R630-B FD-R630-F	FD-R639-B FD-R639-F	FD-R42-B FD-R42-F	FD-R439-B FD-R439-F	FD-R438-B FD-R438-F	FD-R42H	FD-R439H	FD-R438H
Chain Ring	Double		Triple			Double	Triple		Double	Triple	
Cassette Compatibility	10				9	9 / 8	9	8	9 / 8	9	8
Top Gear Teeth	50-56T	36-50T	52T(39T-30T)	50T(39T-30T)	50T(39T-30T)	50-56T	52T(42T-30T)		50~56T	52T(42T-30T)	
Capacity	16T	14T	22T	20T	20T	16T	14T		16T	22T	
Route Type	Down Pull										
Chainstay Angle	61-66		63-66			61-66	63-66		70-77	72-75	
Mount Type	B: Band type / F: Brazed-on type								Band type		
Chain Line	43.5 mm		45.0 mm			43.5mm	45.0 mm		43.5mm	45.0 mm	
Band Diameter	ø34.9 / ø31.8 (1)					ø31.8 / ø28.6 (2)					
Front Clamp Band	Cold forged Aluminum										
Rear Clamp Band											
Outer Link											
Inner Link											
Chain Guide	Steel C.P.										
Average Weight	99g (F)	89g (F)	120g (F)	122g (F)	124g (F)	93g (F)	103g (F)	125 (F)	115g	124g	125g

■ (1) -Clamp spacer (SM-R31) allow the derailleur to be ø31.8mm frame tube. Without ring spacer the derailleur mounts to ø34.9mm frame tube.

■ (2) -Clamp spacer (SM-R28) allow the derailleur to be ø28.6mm frame tube. Without ring spacer the derailleur mounts to ø31.8mm frame tube.

Technical Data - II

Shifters (for drop type handlebar) - ROAD

Series	Ansis11	CENTOS11	CENTOS	R10	R9		R8		Non-group		
Model No.	SB-R512C	SB-R512B	SB-R502E	SB-R402K	SB-R492	SB-R493	SB-R482	SB-R483	SB-R493A	SB-R472	SB-R473
Cassette Compatibility	11 speed		10 speed		9 speed		8 speed		9 speed	7 speed	
Front Shifting	Double					Triple (50-39-30T)	Double	Triple	Triple (52-42-30T)	Double	Triple (50-39-30T)
Bracket Material	Engineering composite										
Brake Lever Material	Carbon / cold forged Al.	Cold forged Al. / anodized									
Shift Cable Adjuster	N			Option							
Brake lever reach adjuster	Y			N							
Clamp Band	23.8~24.2 mm										
Shift Cable	Stainless slick										
Average Weight	498g	498g	498g	430g	430g	430g	430g	430g	430g	430g	430g
Option				SB-R403K	SB-R492(S)	SB-R493(S)	SB-R482(S)	SB-R483(S)	SB-R493A(S)	SB-R472(S)	SB-R473(S)
				For triple chainring	Short reach brake levers						
Compatibility	Shimano road derailleur compatible										

Shifters (for flat type handlebar) - ROAD

Series	CENTOS11	R10		R9		R8		Non-group	
Model No.	SL-R861	SL-R760-2	SL-R760-3	SL-R769-2	SL-R769-3	SL-R758-2	SL-R758-3	SL-R761	SL-R859-2
Cassette Compatibility	11 speed	10 speed		9 speed		8 speed		11 speed	9 speed
Front Shifting	Double	Double	Triple	Double	Triple	Double	Triple	Double	
Bracket Material	Aluminum								
Main Shift Lever Material	Aluminum					Resin / steel		Aluminum	
Trimming function for front shifting	Y								
Bearings inside mechanism	Y	N						Y	N
Shift Cable Adjuster	Y								
Clamp Band	22.2 mm								
Shift Cable	Stainless slick								
Average Weight	205g	284g	284g	282g	282g	279g	279g	292g	225g
Remark	Compatible with road front derailleur								
Compatibility	Shimano road derailleur compatible								

Shifters (for bar end mount / down tube mount) - ROAD

Series	Non-group							
Model No.	BS-C11	BS-A11	BS-A10	BS-A09	BS-T10	BS-T09	SL-D10	SL-D09
Cassette Compatibility	11 speed	11 speed	10 speed	9 speed	10 speed	9 speed	10 speed	9 speed
Front Shifting	Double / Triple (micro index)							
Bracket Material	Aluminum black painted						None	
Shift Lever Material	Carbon	Cold forged Al. / anodized						
Shift Cable Adjuster	N							
Clamp Band	Bar end mount (handlebar inner dia. 19.0~22.0 mm)						Down tube mount	
Shift Cable	Stainless slick							
Average Weight	136g	140g	140g	162g	141g	163g	70g	70g
Remark					Right side index / friction transferable			
Compatibility	Shimano road derailleur compatible							

Rear Derailleur - ROAD (Shimano compatible)

	ARSIS11	CENTOS11	CENTOS	R10	
Model No.	RD-R68S	RD-R58S	RD-R57SE	RD-R51M	RD-R47S
Speeds	11-speed		10-speed	10/9-speed	
Max. Sprocket	25-32T		28T	34T	28T
Min. Sprocket	11T				
Total Capacity	35T		33T	39T	33T
Guide Pulley Tension Pulley	Engineering composite with sealed bearing	Engineering composite with steel bushing			
Bracket Body	Cold forged Aluminum			Aluminum / hi-polished silver or black	
Bracket Pivot Seal	Y			N	
Plate Body	Resin / black painted		Aluminum / silver or black	Aluminum / hi-polished silver or black	
Plate Pivot Seal	Y			N	
Outer Link	Carbon wrapped over cold forged Al.	Cold forged Al. / anodized black	Cold forged Al. / silver or black	Aluminum / hi-polished silver or black	
Inner Link	Aluminum / painted black			Steel / black painted	
Link Pin Bushing	Stainless steel				–
Outer Plate	Aluminum / black anodized			Aluminum / black anodized	Aluminum / sliver anodized
Inner Plate	Aluminum / anodized black				
Average Weight	197 g	194 g	193 g	220g	218 g
Compatibility	**Shimano road derailleur compatible**				

Series	R10	R9			R8	
Model No.	RD-R47	RD-R42S	RD-R43M	RD-R42	RD-R32S	RD-R32
Speeds	10/9-speed				9/8-speed	
Max. Sprocket	28T		34T	28T	28T	
Min. Sprocket	11T					
Total Capacity	39T	33T	39T		33T	39T
Guide Pulley Tension Pulley	Engineering composite with steel bushing					
Bracket Body	Aluminum / hi-polished silver or black	Aluminum /black			composited / black	
Bracket Pivot Seal	N					
Plate Body	Aluminum / hi-polished silver or black	Composited / black				
Plate Pivot Seal	N					
Outer Link	Aluminum / hi-polished silver or black	Aluminum / hi-polish	Aluminum / black	Aluminum / hi-polish	Steel /black painted	
Inner Link	Steel / painted black					
Link Pin Bushing	–					
Outer Plate	Aluminum / anodized sliver	Steel / black painted				
Inner Plate	Aluminum / anodized sliver	Steel / black painted				
Average Weight	226 g	265 g	291g	288g	266 g	290g
Compatibility	**Shimano road derailleur compatible**					

Technical Data - IV

Front Derailleur - MTB / trekking

Series	XCD				HARVO XE		HARVO LT	MEZZO		Non-group
Model No.	FD-M853D	FD-M852D	FD-M853B	FD-M852B	FD-M64	FD-M642	FD-M50	FD-M22	FD-M20	FD-M42
Chain Ring	Triple	Double	Triple	Double	Triple	Double	Triple			
Cassette Compatibility	10	10	10	10	9	9	9	8 / 7		8
Top Gear Teeth	42T (32T-24T)	44-38T	42T (32T-24T)	44-38T	44T (32T-22T)	36T (22T)	44T (32T-22T)	48T (38T-28T)	42T (34T-24T)	48T (38T-28T)
Capacity	18T	14T	18T	14T	22T	14T	22T	20T	18T	20T
Route Type	Dual Pull or Top Pull		Dual Pull							
Chainstay Angle	66-69					65-71	66-69			
Mount Type	Direct mount		Band							
Chain Line	50.0mm	48.8mm	50.0mm	48.8mm	50.0mm	46.8mm	50.0 / 47.5mm			
Band Diameter	none		ø34.9 / ø31.8 (1)				ø34.9 / ø31.8 (1) / ø28.6 (2)			
Front Clamp Band	none		Aluminum / black painted				Al. / black	Steel / black		Al. / black
Rear Clamp Band	Aluminum						Aluminum / black			
Outer Link	Aluminum / black anodized / CNC machined						Steel			
Inner Link	Aluminum						Steel			
Chain Guide	Steel C.P.									
Average Weight	157g	155g	163g	161g	169g	167g	140g	152g	143g	144g

■ (1) -Clamp spacer (SM-M31) allow the derailleur to be ø31.8mm frame tube. Without ring spacer the derailleur mounts to ø34.9mm frame tube.

■ (2) -Clamp spacer (SM-M28) allow the derailleur to be ø28.6mm frame tube. Without ring spacer the derailleur mounts to ø34.9mm frame tube.

Rear Derailleur - MTB / trekking

Series	XCD	XLE	HARVO XE		HARVO LT	MEZZO	Non-group			
Model No.	RD-M85L	RD-M76L	RD-M64L	RD-M59L	RD-M48L	RD-M45L	RD-M35L	RD-M25L	RD-M78L	RD-M61L
Speeds	10-speed		9-speed	9-speed	8/9-speed	8/9-speed	8/7-speed	8/7-speed	10/11-speed	10-speed
Max. Sprocket	36T		34T						36-40T	36T
Min. Sprocket	11T									
Max. Front Difference	18T max.		22T max.						18T max.	
Total Capacity	43T		45T						47T	43T
Guide Pulley / Tension Pulley	Engineering composite with steel bushing									
Bracket Body	Aluminum / black painted			Cold forged Aluminum / polished / silver anodized	Aluminum / black painted			Resin / black	Aluminum / black painted	
Bracket Pivot Seal	Y	N	Y	N	N	N	N	N	Y	N
Plate Body	Aluminum	Resin	Aluminum	Resin / black painted	Resin / black				Aluminum	Resin
Plate Pivot Seal	Y	N	Y	N	N	N	N	N	Y	N
Outer Link	Cold forged Aluminum / black anodized, CNC machined					Aluminum / black painted	Resin / black		Cold forged Al. /black anodized. CNC machined	Aluminum / black painted
Inner Link	Aluminum/painted black			Steel black					Aluminum / black painted	Steel black
Link Pin Bushing	Stainless steel		N		N	N	N	N	Stainless steel	N
Outer Plate	Al. black / CNC machined	Al. black	Al. black / CNC machined		Steel / black painted				Aluminum / black anodized	Steel / black painted
Inner Plate	Aluminum / black anodized				Steel / black painted				Aluminum / black anodized	Steel / black painted
Average Weight	204g	204g	233g	223g	313g	310g	303g	294g	206g	281g
Option	RD-M85S	RD-M76S	RD-M64S		RD-M48S	RD-M45S	RD-M35S	RD-M25S		RD-M61S
	Total capacity 35T				Total capacity 39T					35T
	200g	200g	220g		303g	308g	300.5g	284g		270g
Compatibility	Shimano MTB / trekking derailleur compatible									

Shifters - MTB / trekking / touring

Series										
Model No.	SL-M860-2	SL-M850-2	SL-M760-2	SL-M10	BS-M10	SL-M859	SL-M769-2	SL-M759-3	TS70-9	TS38-7
Cassette Compatibility	10					9				7
Front Shifting	Double			Double / Triple		Double / Triple	Double	Triple		
Bracket Material	Cold forged Al	Alnminum		Cold forged Al. CNC	Alnminum					Composited
Main Shift Lever Material	Alnminum			Cold forged Al		Alnminum				Composited
Function for front shifting	Index			Micro-index		Index				
Bearings inside mechanism	Y	N								
Shift Cable Adjuster	Y				N	Y				
Clamp Band	22.2mm				Barend mount 19.0-22.0mm	22.2mm				
Shift Cable	Stainless slick									Regular
Average Weight	207g	225g	286g	128g	150g	225g	287g	271g	282g	242g
Option	For triple chainring						For triple		TS70-8 for 3x8s	TS38-8 for 3x8s
	SL-M860-3	SL-M850-3	SL-M760-3				SL-M769-3		TS70-7 for 3x7s	TS38-6 for 3x6s
Compatibility	Shimano MTB / trekking derailleur compatible									

Cassette Sprocket (Shimano compatible)

Model no.		CS-G110	CS-H110	CS-H110	CS-G100	CS-H100	CS-G100	CS-H100	CS-H100	CS-G100	CS-H100	CS-H090	CS-H090	CS-H080
Speeds		11	11	11	10	10	10	10	10	10	10	9	9	8
Combination	11	40 *	40 *	32										
	10	36	36	28	40 *	40 *	36	36	32	28	28			
	9	32	32	24	36	36	32	32	28	24	24	32	28	
	8	28	28	21	32	32	28	28	24	21	21	28	24	32
	7	24	24	19	28	28	24	24	21	19	19	24	21	28
	6	21	21	17	24	24	21	21	19	17	17	21	19	24
	5	19	19	15	21	21	19	19	17	15	15	19	17	21
	4	17	17	14	17	17	17	17	15	14	14	17	15	19
	3	15	15	13	15	15	15	15	13	13	13	15	13	17
	2	13	13	12	13	13	13	13	12	12	12	13	12	14
	1	11	11	11	11	11	11	11	11	11	11	11	11	12
Material		Steel												
Surface treatment		Chrome plated												
Bracket spider		Y	N		Y	N	Y	N		Y	N			
lock ring		Aluminum	Steel		Aluminum	Steel	Aluminum	Steel		Aluminum	Steel			
Average weight		463g	552g	371g	422g	532g	383g	446g	351g	255g	289g	337g	276g	339g
Recommended chain		HG 11-speed			HG 10-speed							HG 9-speed		HG 8-speed

* - 7075 Aluminum

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