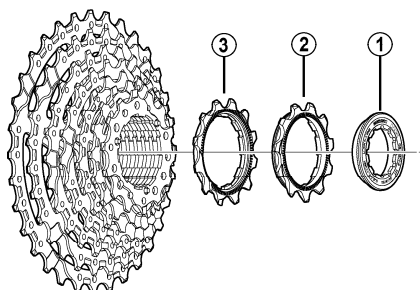


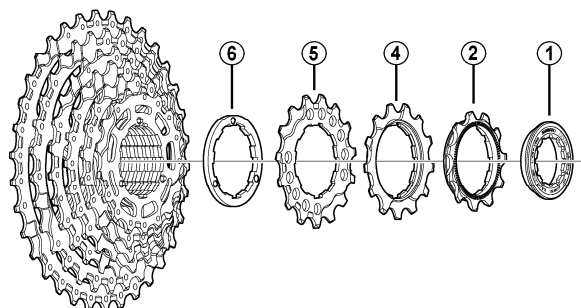
Cassette Sprocket (9-Speed)

CS-HG61-9 ar/au/bg/bh-Group

ar-Group



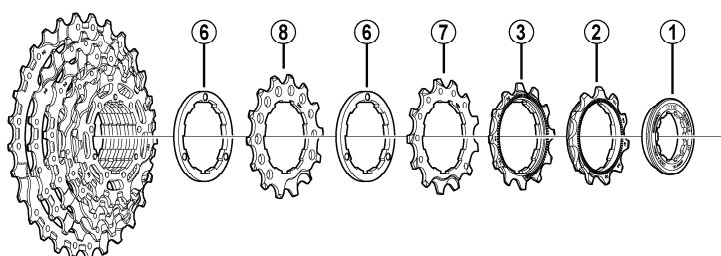
au-Group



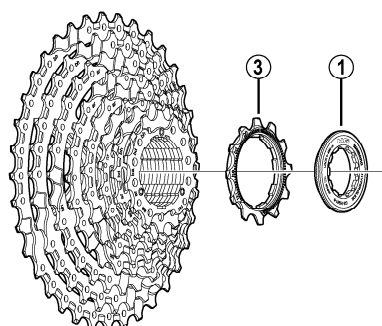
TL-LR15



bg-Group



bh-Group



- ar-group sprocket teeth combination: 11-12-14-16-18-21-24-28-32T
- au-group sprocket teeth combination: 11-13-15-17-20-23-26-30-34T
- bg-group sprocket teeth combination: 11-12-13-14-16-18-21-24-28T
- bh-group sprocket teeth combination: 12-14-16-18-21-24-28-32-36T

CS-HG80

CS-HG50

ITEM NO.	SHIMANO CODE NO.	DESCRIPTION	INTERCHANGEABILITY		
1	Y1ZX98010	Lock Ring (with Sticker) for 11T			
	Y1ZX98040	Lock Ring (with Sticker) for 12T			
2	Y1ZX1144N	Sprocket Wheel 11T (Built in spacer type) for ar/bg-Group	A		
	Y1ZX1147N	Sprocket Wheel 11T (Built in spacer type) for au-Group	A		
3	Y1ZX1244N	Sprocket Wheel 12T (Built in spacer type) for ar/bg-Group	A		
	Y1ZX1268N	Sprocket Wheel 12T (Built in spacer type) for bh-Group			
4	Y1ZX1347N	Sprocket Wheel 13T (Built in spacer type)			
5	Y1ZX1547N	Sprocket Wheel 15T	A		
6	Y35764251	Sprocket Spacer (t=2.56 mm)	A	A	
7	Y10R1300N	Sprocket Wheel 13T	A		
8	Y10R1400N	Sprocket Wheel 14T	A		
9	Y12009230	Lock Ring Removal Tool (TL-LR15)	A	A	

A: Same parts.

B: Parts are usable, but differ in materials, appearance, finish, size, etc.

Absence of mark indicates non-interchangeability.

Jul.-2011-2799B

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Specifications are subject to change without notice.

SHIMANO