

Ultrascale Reference Manual

Complete Sets And Wheel Data

Contents

The information contained in this reference manual is to help modellers cross reference The Driving, Bogie and Tender wheels used in each complete set of wheels produced by Ultrascale.

This information were applicable includes Wheel diameter, Number of spokes, Crank throw, and wheel design. This manual also includes a complete list of all the Driving, Bogie and Tender wheels currently produced by Ultrascale.

For current availability of any item listed please visit our web site or contact us.

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Abbreviations used in manual:

C.O.S. - Crank on spoke, C.B.S. - Crank between spoke, O.S.F. - Outside frame, c/t - Crank throw

Please note:

The wheels specified for the complete sets are the most common used for that prototype. However, the wheel specification may vary depending on the variant being modeled.

Complete sets - G. W. R.

0-6-0T 57XX

4'7 1/2" GWR 14 spoke 10" c/t c.b.s.

0-6-0T 1854/2721

4'7 1/2" GWR 16 spoke 10" c/t c.b.s.

0-6-0 & Tender 'Dean Goods'

5'2" GWR 16 spoke 10" c/t c.b.s.

4'11 1/2" GWR 12 spoketender

0-6-0 & Tender 'Collett Goods'

5'2" GWR 16 spoke 10" c/t c.b.s.

4'11 1/2" GWR 12 spoketender

2-6-2T 44XX

3'2" GWR 10 spoke bogie

4'11 1/2" GWR 10 spoke 12" c/t c.o.s.

3'2" GWR 10 spoke bogie

2-6-2T 45XX/55XX

3'2" GWR 10 spoke bogie

4'7 1/2" GWR 14 spoke 12" c/t c.b.s.

3'2" GWR 10 spoke bogie

2-6-2T 61XX/51XX

3'2" GWR 10 spoke bogie

5'8" GWR 18 spoke 15" c/t c.b.s.

3'8" GWR 10 spoke bogie

4-4-0 & Tender 'Bulldog'

3'8" GWR 10 spoke bogie

5'8" GWR 18 spoke o.s.f.

4'11 1/2" GWR 12 spoketender

4-4-0 & Tender 'Duke'

3'8" GWR 10 spoke bogie

5'8" GWR 18 spoke o.s.f.

4'11 1/2" GWR 12 spoketender

4-4-0 & Tender 'Dukedog'

3'8" GWR 10 spoke bogie

5'8" GWR 18 spoke o.s.f.

4'11 1/2" GWR 12 spoketender

Complete sets - G. W. R. Continued.

2-6-0 & Tender 'Aberdare'

2'8"	GWR	10 spoke bogie	
4'7 1/2"	GWR	14 spoke	o.s.f.
4'11/2"	GWR	12 spoke tender	

2-6-0 & Tender 'Mogul'

3'2"	GWR	10 spoke bogie	
5'8"	GWR	18 spoke	15" c/t c.o.s.
4'11/2"	GWR	12 spoke tender	

4-6-0 & Tender 'Manor'

3'0"	GWR	10 spoke bogie	
5'8"	GWR	18 spoke	15" c/t c.o.s.
4'11/2"	GWR	12 spoke tender	

4-6-0 & Tender 'Grange'

3'0"	GWR	10 spoke bogie	
5'8"	GWR	18 spoke	15" c/t c.o.s.
4'11/2"	GWR	12 spoke tender	

4-6-0 & Tender 'Hall'

3'0"	GWR	10 spoke bogie	
6'0"	GWR	20 spoke	15" c/t c.b.s.
4'11/2"	GWR	12 spoke tender	

4-6-0 & Tender 'Castle' (Old) / 'Star'

3'2"	GWR	10 spoke bogie	
6'8"	GWR	22 spoke	13" c/t c.o.s.
4'11/2"	GWR	12 spoke tender	

4-6-0 & Tender 'Castle' (New) 5013 onwards

3'2"	GWR	10 spoke bogie	
6'8"	GWR	22 spoke	13" c/t c.b.s.
4'11/2"	GWR	12 spoke tender	

2-8-0 & Tender 28XX

3'2"	GWR	10 spoke bogie	
4'7 1/2"	GWR	14 spoke	15" c/t c.o.s.
4'11/2"	GWR	12 spoke tender	

2-8-0 & Tender 47XX

3'2"	GWR	10 spoke bogie	
5'8"	GWR	18 spoke	15" c/t c.o.s.
4'11/2"	GWR	12 spoke tender	

Complete sets - G. W. R. Continued.

2-4-0 & Tender 3232 Class

4' 11/2"	GWR	12 spoke	tender	
6' 8 1/2"	GWR	22 spoke	12" c/t	c.b.s.
4' 11/2"	GWR	12 spoke	tender	

4-4-0 & Tender 'City'/'Atbara'

3' 8"	GWR	10 spoke bogie		
6' 8 1/2"	GWR	22 spoke	o.s.f.	
4' 11/2"	GWR	12 spoke	tender	

0-4-2T 14XX

5' 2"	GWR	16 spoke	10" c/t	c.b.s.
3' 8"	GWR	10 spoke	bogie	

4-6-0 & Tender 'Saint'

3' 2"	GWR	10 spoke	bogie	
6' 8"	GWR	22 spoke	15" c/t	c.o.s.
4' 11/2"	GWR	12 spoke	tender	

4-4-0 & Tender 'County'

3' 2"	GWR	10 spoke	bogie	
6' 8"	GWR	22 spoke	15" c/t	c.o.s.
4' 11/2"	GWR	12 spoke	tender	

4-4-2T 'County'

3' 2"	GWR	10 spoke	bogie	
6' 8"	GWR	22 spoke	15" c/t	c.o.s.
3' 8"	GWR	10 spoke	bogie	

2-8-0T 42XX/5205

3' 2"	GWR	10 spoke bogie		
4' 7 1/2"	GWR	14 spoke	15" c/t	c.o.s.

2-8-2T 72XX

3' 2"	GWR	10 spoke bogie		
4' 7 1/2"	GWR	14 spoke	15" c/t	c.o.s.
3' 8"	GWR	10 spoke bogie		

2-4-0 & Tender 'Stella'

3' 8"	GWR	10 spoke bogie		
5' 2"	GWR	16 spoke	o.s.f.	
4' 11/2"	GWR	12 spoke	tender	

0-6-2T 56XX

4' 7 1/2"	GWR	14 spoke	10" c/t	c.b.s.
3' 8"	GWR	10 spoke	bogie	

Complete sets - G. W. R. Continued.

4-6-0 & Tender 'Hawksworth County'

3' 0"	GWR	10 spoke	bogie
6' 3"	GWR	21 spoke	15" c/t c.b.s.
4' 11/2"	GWR	12 spoke	tender

Complete sets - L. M. S.

0-6-0T 3F 'Jinty'

4' 7" LMS 15 spoke 11" c/t c.o.s. FOWLER

0-6-0 & Tender 4F

5' 3" LMS 16 spoke 11" c/t c.o.s. FOWLER

4' 3" LMS 12 spoke tender FOWLER

2-6-0 & Tender 'Crab'

3' 6 1/2" LMS 10 spoke bogie FOWLER

5' 6" LMS 17 spoke 13" c/t c.o.s. FOWLER

4' 3" LMS 12 spoke tender FOWLER

2-6-2T Stanier

3' 3 1/2" LMS 10 spoke bogie STANIER

5' 3" LMS/BR 16 spoke 13" c/t c.b.s. STANIER

3' 3 1/2" LMS 10 spoke bogie STANIER

2-6-4T Fowler

3' 3 1/2" LMS 10 spoke bogie FOWLER

5' 9" LMS 18 spoke 13" c/t c.b.s. FOWLER

3' 3 1/2" LMS 10 spoke bogie FOWLER

2-6-4T Stanier

3' 3 1/2" LMS 10 spoke bogie STANIER

5' 9" LMS/BR 18 spoke 13" c/t c.b.s. STANIER

3' 3 1/2" LMS 10 spoke bogie STANIER

4-6-0 & Tender 'Black 5'

3' 3 1/2" LMS 10 spoke bogie STANIER

6' 0" LMS 19 spoke 14" c/t c.b.s. STANIER

4' 3" LMS 12 spoke tender STANIER

4-6-2 & Tender 'Princess Royal'

3' 0" LMS/BR 9 spoke bogie

6' 6" LMS 20 spoke 14" c/t c.b.s. STANIER

3' 9" LMS 11 spoke bogie STANIER

4' 3" LMS 12 spoke tender STANIER

4-6-2 & Tender 'Turbomotive'

3' 0" LMS/BR 9 spoke bogie

6' 9" LMS 21 spoke 14" c/t c.b.s. STANIER

3' 9" LMS 11 spoke bogie STANIER

4' 3" LMS 12 spoke tender STANIER

Complete sets - L. M. S. Continued.

4-6-2 & Tender 'Duchess'

3' 0"	LMS/BR	9 spoke	bogie		
6' 9"	LMS	21 spoke	14" c/t	c.b.s.	STANIER
3' 9"	LMS	11 spoke	bogie		STANIER
4' 3"	LMS	12 spoke	tender		STANIER

2-8-0 & Tender 8F

3' 3 1/2"	LMS	10 spoke	bogie		STANIER
4' 8 1/2"	LMS	15 spoke	14" c/t	c.b.s.	STANIER
4' 3"	LMS	12 spoke	tender		STANIER

Complete sets - L. N. E. R.

0-6-0T J72

4' 11/4" LNER 12 spoke 10" c/t c.o.s.

0-6-2TN2

5' 8" LNER 18 spoke 11" c/t c.b.s.

3' 8" LNER 10 spoke bogie

4-6-0 & Tender B17

3' 2" LNER 12 spoke bogie

6' 8" LNER 20 spoke 13" c/t c.b.s.

3' 9" LNER Disc tender

4-6-2 & Tender A1

3' 2" LNER 10 spoke bogie

6' 8" LNER 20 spoke 13" c/t c.b.s.

3' 8" LNER 10 spoke bogie

4' 2" LNER Disc tender

4-6-2 & Tender A3

3' 2" LNER 10 spoke bogie

6' 8" LNER 20 spoke 13" c/t c.b.s.

3' 8" LNER 10 spoke bogie

4' 2" LNER 12 spoketender

4-6-2 & Tender A4

3' 2" LNER 10 spoke bogie

6' 8" LNER 20 spoke 13" c/t c.b.s.

3' 8" LNER 10 spoke bogie

4' 2" LNER Disc tender

Complete sets - S. R.

4-4-0 & Tender T9

3'7"	SR	10 spoke	bogie / tender
6'7"	SR	22 spoke	9" c/t c.o.s.
3'7"	SR	10 spoke	bogie / tender

4-4-0 & Tender 'Schools'

3'1"	SR	10 spoke bogie	
6'7"	SR	22 spoke 13" c/t	c.b.s.
4'0"	SR	Disc	tender

4-6-0 & Tender 'Lord Nelson'

3'1"	SR	10 spoke	bogie
6'7"	SR	22 spoke	13" c/t c.b.s.
3'7"	SR	10 spoke	bogie / tender

4-6-0 & Tender 'King Arthur'

3'7"	SR	10 spoke	bogie / tender
6'7"	SR	22 spoke	14" c/t c.b.s.
3'7"	SR	10 spoke	bogie / tender

0-4-4T M7

5'7"	SR	18 spoke 9" c/t	c.o.s.
3'7"	SR	10 spoke bogie / tender	

Complete sets - B. R.

0-6-0 Diesel Shunter 08/09

4' 6" BR 14 spoke o.s.f.

0-6-0 Diesel Shunter 03

3' 7" BR 12 spoke 10" c/t c.o.s.

0-6-0 Diesel Shunter 14

4' 0" BR 12 spoke 10" c/t c.o.s.

2-6-2T 82000

3' 0" LMS/BR 9 spoke bogie
5' 3" LMS/BR 16 spoke 13" c/t c.b.s. STANIER
3' 0" LMS/BR 9 spoke bogie

2-6-0 & Tender 76000

3' 0" LMS/BR 9 spoke bogie
5' 3" LMS/BR 16 spoke 13" c/t c.b.s. STANIER
3' 31/2" LMS 10 spoke bogie STANIER

2-6-0 & Tender 77000

3' 0" LMS/BR 9 spoke bogie
5' 3" LMS/BR 16 spoke 13" c/t c.b.s. STANIER
3' 31/2" LMS 10 spoke bogie STANIER

Driving wheels

3' 0"		10 spoke	9" c/t	c.o.s.	
3' 03/8"	L&Y	0-4-0 Disc	9" c/t		Pug.
3' 7"	BR	12 spoke	10" c/t	c.o.s.	
4' 0"	BR	12 spoke	10" c/t	c.o.s.	
4' 11/2"	GWR	10 spoke	12" c/t	c.o.s.	
4' 11/4"	LNER	12 spoke	10" c/t	c.o.s.	
4' 6"	BR	14 spoke		o.s.f.	
4' 7"	LMS	15 spoke	11" c/t	c.o.s.	FOWLER
4' 71/2"	GWR	14 spoke	10" c/t	c.b.s.	
4' 71/2"	GWR	14 spoke	12" c/t	c.b.s.	
4' 71/2"	GWR	14 spoke	15" c/t	c.o.s.	
4' 71/2"	GWR	14 spoke		o.s.f.	
4' 71/2"	GWR	16 spoke	10" c/t	c.b.s.	
4' 81/2"	LMS	15 spoke	14" c/t	c.b.s.	STANIER
5' 2"	GWR	16 spoke	10" c/t	c.b.s.	
5' 2"	GWR	16 spoke		o.s.f.	
5' 3"	LMS	16 spoke	11" c/t	c.o.s.	FOWLER
5' 3"	LMS/BR	16 spoke	13" c/t	c.b.s.	STANIER
5' 6"	LMS	17 spoke	13" c/t	c.o.s.	FOWLER
5' 7"	SR	18 spoke	9" c/t	c.o.s.	
5' 8"	LNER	18 spoke	11" c/t	c.b.s.	
5' 8"	GWR	18 spoke	15" c/t	c.b.s.	
5' 8"	GWR	18 spoke	15" c/t	c.o.s.	
5' 8"	GWR	18 spoke		o.s.f.	
5' 9"	LMS	18 spoke	13" c/t	c.b.s.	FOWLER
5' 9"	LMS/BR	18 spoke	13" c/t	c.b.s.	STANIER
6' 0"	LMS	19 spoke	14" c/t	c.b.s.	STANIER
6' 0"	GWR	20 spoke	15" c/t	c.b.s.	
6' 3"	GWR	21 spoke	15" c/t	c.b.s.	
6' 6"	LMS	20 spoke	14" c/t	c.b.s.	STANIER
6' 7"	SR	22 spoke	14" c/t	c.b.s.	
6' 7"	SR	22 spoke	9" c/t	c.o.s.	
6' 7"	SR	22 spoke	13" c/t	c.b.s.	
6' 8"	GWR	22 spoke	13" c/t	c.o.s.	
6' 8"	GWR	22 spoke	13" c/t	c.b.s.	
6' 8"	GWR	22 spoke	15" c/t	c.o.s.	
6' 8"	LNER	20 spoke	13" c/t	c.b.s.	
6' 81/2"	GWR	22 spoke	12" c/t	c.b.s.	
6' 81/2"	GWR	22 spoke		o.s.f.	
6' 9"	LMS	21 spoke	14" c/t	c.b.s.	STANIER

Bogie & Tender wheels

2' 8"	GWR	Mansell	bogie	
2' 8"	GWR	10 spoke	bogie	
3' 0"	LMS/BR	9 spoke	bogie	
3' 0"	GWR	10 spoke	bogie	
3' 1"	SR	Disc	bogie	BULLIED
3' 1"	SR	10 spoke	bogie	
3' 2"	LNER	12 spoke	bogie	
3' 2"	GWR	10 spoke	bogie	
3' 2"	LNER	10 spoke	bogie	
3' 31/2"	LMS	10 spoke	bogie	STANIER
3' 31/2"	LMS	10 spoke	bogie	FOWLER
3' 61/2"	LMS	10 spoke	bogie	FOWLER
3' 7"	SR	10 spoke	bogie / tender	
3' 7"	SR	Disc	tender	
3' 8"	GWR	10 spoke	bogie	
3' 8"	LNER	10 spoke	bogie	
3' 9"	LMS	11 spoke	bogie	STANIER
3' 9"	LNER	Disc	tender	
4' 0"	SR	Disc	tender	
4' 11/2"	GWR	12 spoke	tender	
4' 2"	LNER	12 spoke	tender	
4' 2"	LNER	Disc	tender	
4' 3"	LMS	12 spoke	tender	STANIER
4' 3"	LMS	12 spoke	tender	FOWLER