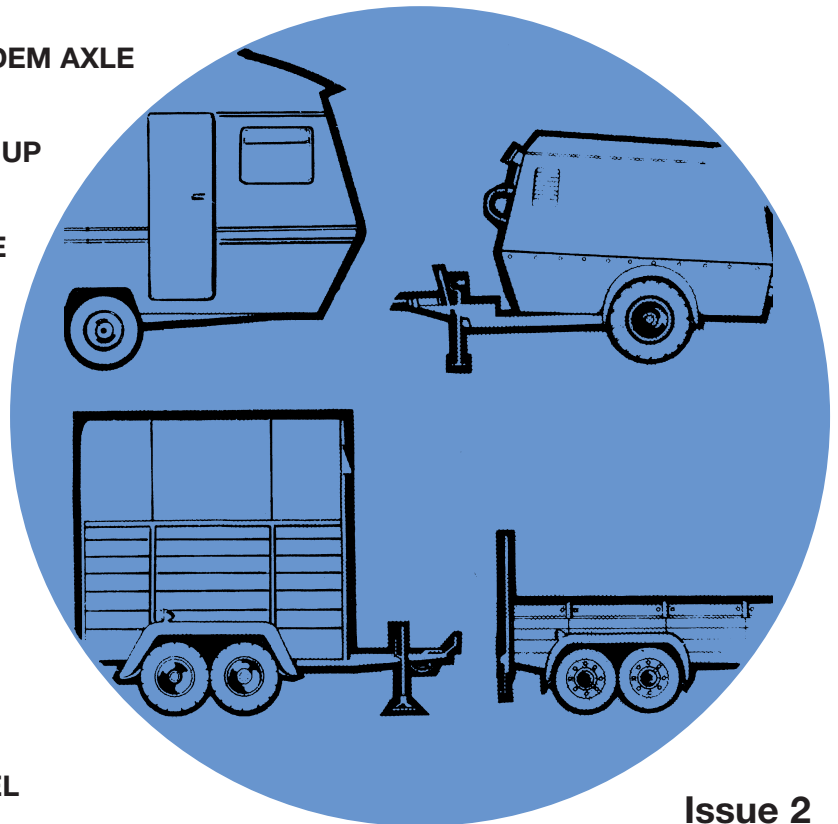


## THE AXLE AND SUSPENSION SYSTEM FOR COMMERCIAL AND LEISURE USE

- ☆ **EFFECTIVE RUBBER IN COMPRESSION INDEPENDENT SUSPENSION, RESULTING IN STURDY AND ATTRACTIVE APPEARANCE, LOW MAINTENANCE AND TROUBLE-FREE SERVICE, DUE TO THE SPECIALLY DEVELOPED AXLE SECTION TUBE AND RELATED COMPONENTS - OVER 35 YEARS PROVEN EXPERIENCE.**
- ☆ **CHOICE OF COMPLETE AXLE MANUFACTURED TO CUSTOMERS TRACK AND CHASSIS FIXING REQUIREMENTS OR STUB AXLE UNITS.**
- ☆ **EASE OF FITMENT TO CHASSIS WITH A VARIETY OF MOUNTING BRACKETS.**
- ☆ **AVAILABLE IN STANDARD AND SOFTRIDE OPTIONS.**
- ☆ **TAPER ROLLER BEARING AND 'UNITIZED' BEARING HUBS AVAILABLE.**
- ☆ **AXLES FITTED WITH BRAKES APPROVED TO EEC 98/12. WITH OPTIONS OF CABLE, AIR, AIR OVER HYDRAULIC AND A.B.S. BRAKING.**
- ☆ **AVAILABLE WITH UNBRAKED HUBS.**
- ☆ **SPECIAL LOW-PLATFORM AXLES AVAILABLE FOR USE WITH SMALL DIAMETER HIGH CAPACITY TYRES.**
- ☆ **AVAILABLE IN COMPENSATED TANDEM AXLE SETS.**
- ☆ **FULL CARRYING CAPACITY RANGE UP TO 4000 kg PER AXLE.**
- ☆ **AXLES INCORPORATED IN A RANGE OF INDUSTRIAL 'T'-BAR CHASSIS.**
- ☆ **HYDRAULIC OPERATED GROUND LEVEL LOADING AXLES.**
- ☆ **ACKERMAN OR TURNTABLE STEERED UNDERGEAR.**
- ☆ **FULL RANGE OF SOLID AXLES UP TO 5000 kg CAPACITY FOR USE WITH LEAF SPRINGS.**
- ☆ **SUSPENSION SYSTEMS DESIGNED FOR UNIQUE CUSTOMER REQUIREMENTS.**
- ☆ **COMPREHENSIVE RANGE OF WHEEL AND TYRE EQUIPMENT.**
- ☆ **FULL RANGE OF TOWING COUPLINGS, JOCKEY WHEELS AND PROPSTANDS.**



Issue 2

# NOTES

A series of horizontal dotted lines for writing notes.

- 1 Refer to Data Sheets 2, 3 and 4 for Technical Details.
- 2 Tyre sizes shown on Data Sheet A are typical. Alternative sizes can be supplied. Tyre loads and pressures are shown for trailers. The maximum legal speed (including motorways) in the U.K. for this class of vehicle is 96 km/h (60 mph). For overseas applications where other speed limits apply, consult our technical department for appropriate load capacities and inflation pressure.
- 3 Standard axle capacities are: 550, 750, 900, 1000, 1100, 1300, 1500, 1600, 1800 & 1900kg other capacities are available. Axle carrying capacity will be limited by:
  - (a) Axle
  - (b) Wheel
  - (c) Tyre
- 4 When calculating axle lengths and mounting bracket centres (body widths) an extra allowance on nominal dimension is required to compensate for camber and toe-in conditions.

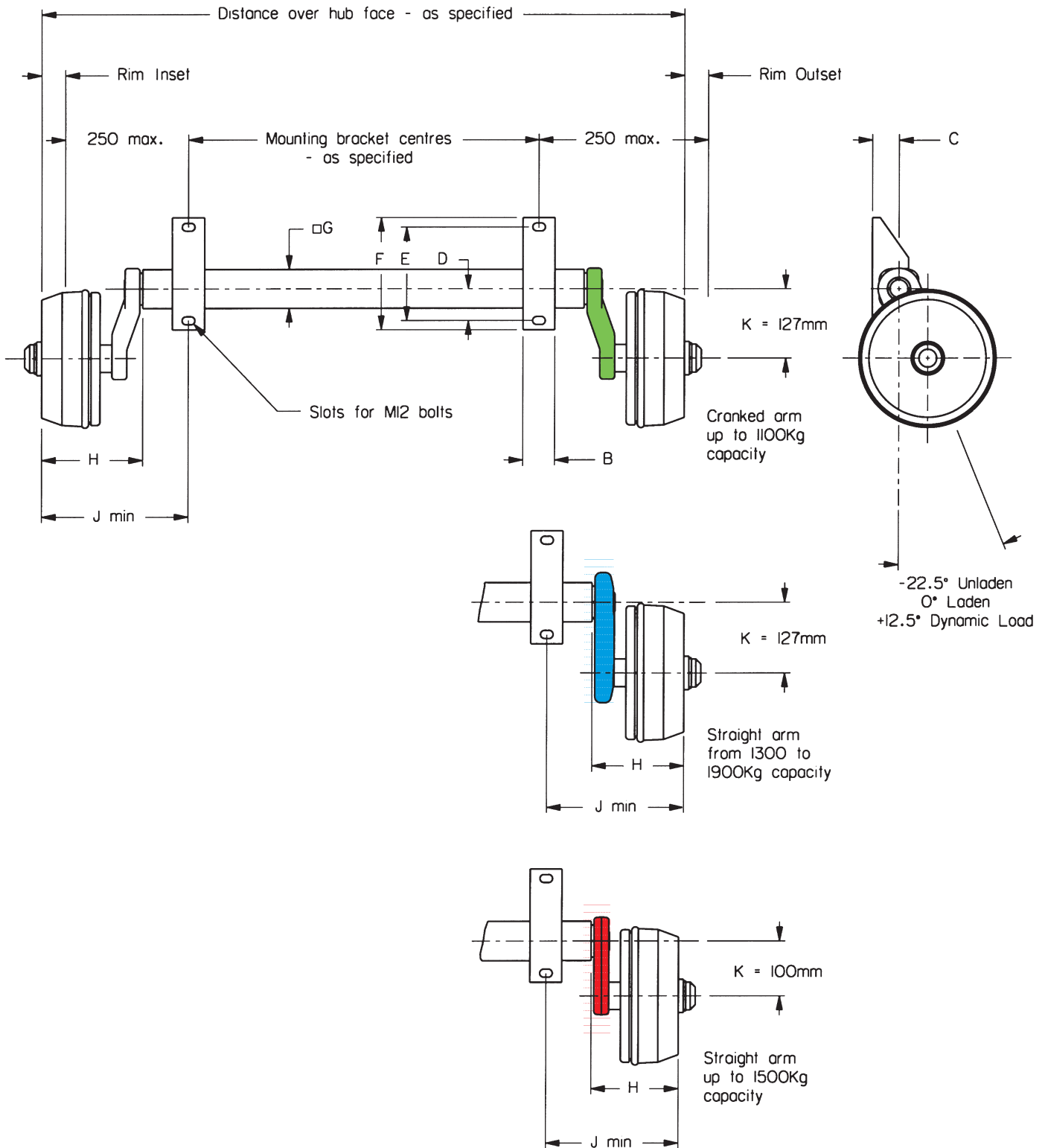
i.e. (a) If overall axle width (outside tyres) is known, this dimension should be reduced by 25mm to make allowance for camber and toe-in.

(b) If trailer body width is known, a 'running clearance' between inside tyre face and body is required plus the extra allowance of 25mm total for camber and toe-in.
- 5 Trailing arm angle at  $22\frac{1}{2}^{\circ}$  below is standard, other arm angles available e.g. Low Platform Trailer (wheel under bed) where trailing arm angle is at  $45^{\circ}$  below.
- 6 When ordering, the following information is required:
  - (a) Axle Capacity
  - (b) Preferred Tyre
  - (c) Either:

Trailer Overall Body Width and Required Mounting Bracket Centres  
(allowance will be made for 25mm nominal tyre/trailer body clearance).

or:

Maximum Overall Body Width and Required Mounting Bracket Centres.  
(Trailer and body width should also be forwarded so that tyre/body clearance can be checked).
  - (d) Preferred Brake Size
  - (e) Preferred Wheel Code
- 7 For suggested Brake Cable arrangement see Data Sheet C.



Read in conjunction with Data Sheet 3.

# Axle Data - Taper Roller & 'Unitized' Bearing Hubs Data Sheet 3

MAXIMUM CAPACITY kg	HUB CODE	WHEEL CODE	BRAKE SIZE	AXLE DIMENSIONS									
				B	C	D	E	F	G	H	J	K	
900	C	1,2,4 5,8,9,14	160 x 35	51	33	54	159	190	54	153	182	127	
										132	167	100	
1100	A	4,5,6,8,9 13,14,17,20	200 x 50	54	44	54	159	190	67	170	207	127	
										148	185	100	
1100	R	6,7,10, 12,13,16	200 x 50	54	44	54	159	190	67	143	180	127	
										121	158	100	
1100 UNITIZED	X	5,6,7,9, 13,14,19	200 x 50	54	44	54	159	190	67	170	207	127	
										148	185	100	
1300	A	13,14 17,20	200 x 50	54	44	54	159	190	67	153	190	127	
										148	185	100	
1300	R	7	200 x 50	54	44	54	159	190	67	148	185	127	
1300	R	10,12,16	200 x 50	54	44	54	159	190	67	125	162	127	
1300	R	7,10,12,13,16	200 x 50	54	44	54	159	190	67	121	158	100	
1300 UNITIZED	X	7,10 13,14,19	200 x 50	54	44	54	159	190	67	153	190	127	
										148	185	100	
1500	A	14,15 17,20	200 x 50	54	44	54	159	190	67	153	190	127	
										148	185	100	
1500	R	7	200 x 50	54	44	54	159	190	67	148	185	127	
1500	R	10,12,16	200 x 50	54	44	54	159	190	67	125	162	127	
1500	R	7,10,12,16	200 x 50	54	44	54	159	190	67	121	158	100	
1500 UNITIZED	X	7,10 13,14,19	200 x 50	54	44	54	159	190	67	153	190	127	
										148	185	100	
1600	T	17,20	250 x 40	54	44	54	159	190	67	143	180	127	
1600	V	10,12,16	250 x 40	54	44	54	159	190	67	143	180	127	
1600 UNITIZED	Y	10,19	250 x 40	54	44	54	159	190	67	143	180	127	
1900	T	17,20	250 x 40	60	54	113	226	260	77	143	183	127	
1900	V	11,12,16	250 x 40	60	54	113	226	260	77	143	183	127	
1900 UNITIZED	Y	10,19	250 x 40	60	54	113	226	260	77	143	183	127	

Read in conjunction with Data Sheets 2 and B.

TYRE SIZE	CAPACITY PER SINGLE AXLE (up to 100km/h) kg	OUTSIDE TYRE DIA. mm	SECTION WIDTH mm	STATIC TYRE RADIUS mm	PRESSURE		WHEEL CODE
					BAR	P.S.I.	
4.00-8 4PR	540	415	114	193	3.5	51	1,2
4.00-8 6PR	680	415	114	193	4.25	62	1,2
5.00-10 8PR	1000	516	134	239	4.5	65	6
145R10 4PR	693	493	140	223	2.4	35	4,5,6
145R10 C 8PR	1000	489	145	229	4.5	65	6
195/55R10	1500	468	193	215	5.2	76	7
155R12 4PR	880	551	151	250	2.4	35	8,9
155/70R12	1800	523	157	242	6.25	91	10,11,12
145/80R13	825	562	145	255	2.4	35	13,14
155/80R13	935	578	157	262	2.4	35	13,14
165/80R13	1045	594	165	268	2.9	42	13,14
175R13	1166	608	178	273	2.5	36	13,14
175R13 C 6PR	1407	611	178	281	3.75	54	13,14,15
185R13 C 6PR	1500	617	189	284	3.75	54	14,15
185/70R13 C	1900	600	186	278	6.0	87	16
195/50R13 C	1800	526	196	249	6.5	94	16
175R14 C 6PR	1491	628	180	287	3.75	54	17,19
175R14 C 8PR	1627	628	180	287	4.5	65	17,19
185R14 C 8PR	1782	648	190	303	4.5	65	17,19
195R14 C 6PR	1785	670	194	307	3.75	54	17,19
195R14 C 8PR	1995	670	194	307	4.5	65	17,19
205R14 C 8PR	2163	685	211	314	4.5	65	17,19
215R14 C 8PR	2352	700	218	323	4.5	65	17,18,19
7.50R16 C 6PR	2100	802	208	371	4.0	58	20
7.50R16 C 8PR	2352	802	208	371	4.5	65	20
7.50R16 12PR	3045	795	206	368	6.25	91	21,22,23
175/75R16 C	1800	668	177	305	4.75	69	20
205/75R16 C	2226	714	203	326	4.75	69	20
205R16 REIN	1980	736	211	337	3.2	46	20
215/75R16 C	2750	728	216	329	5.25	76	20
205/75R17.5	3000	765	214	352	6.25	91	24,25
215/75R17.5 (135J)	4360	767	211	351	8.1	117	24,25

All information provided for guidance only.

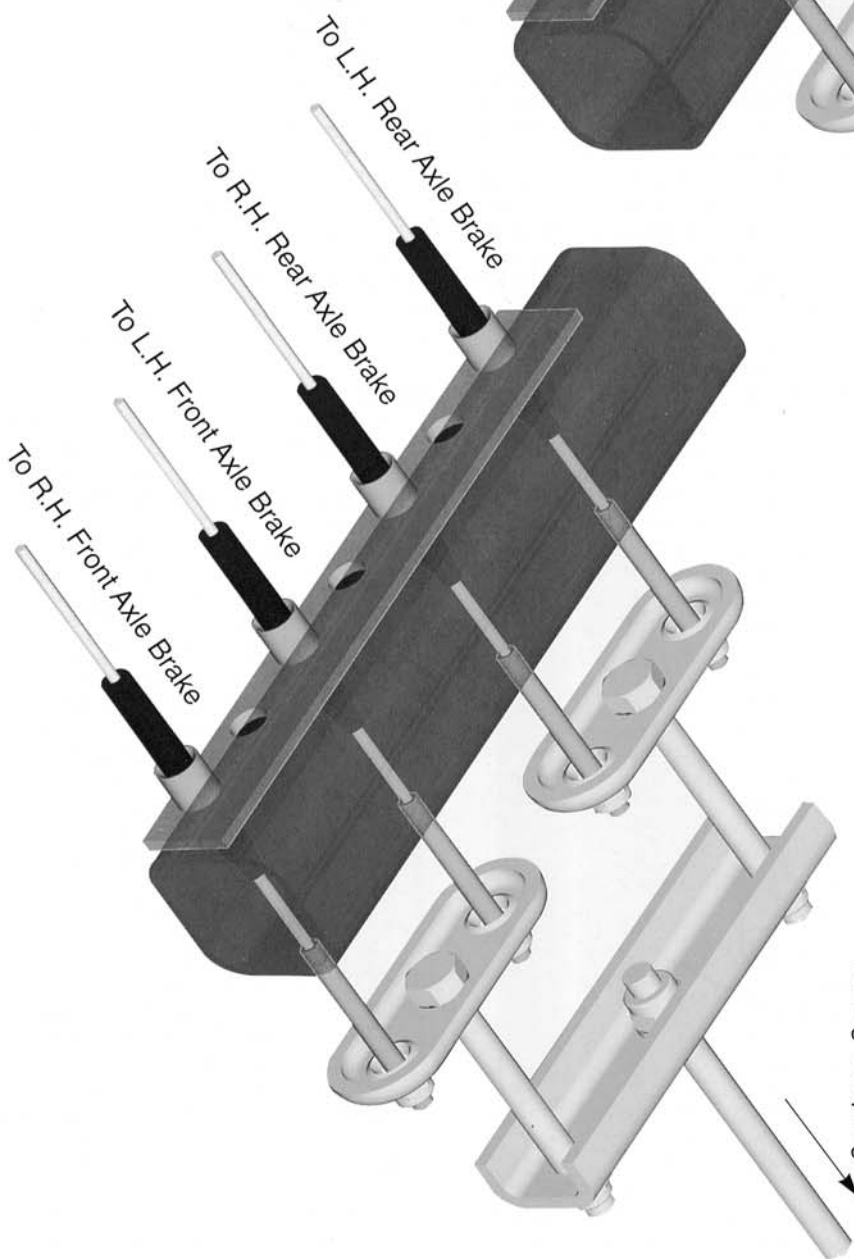
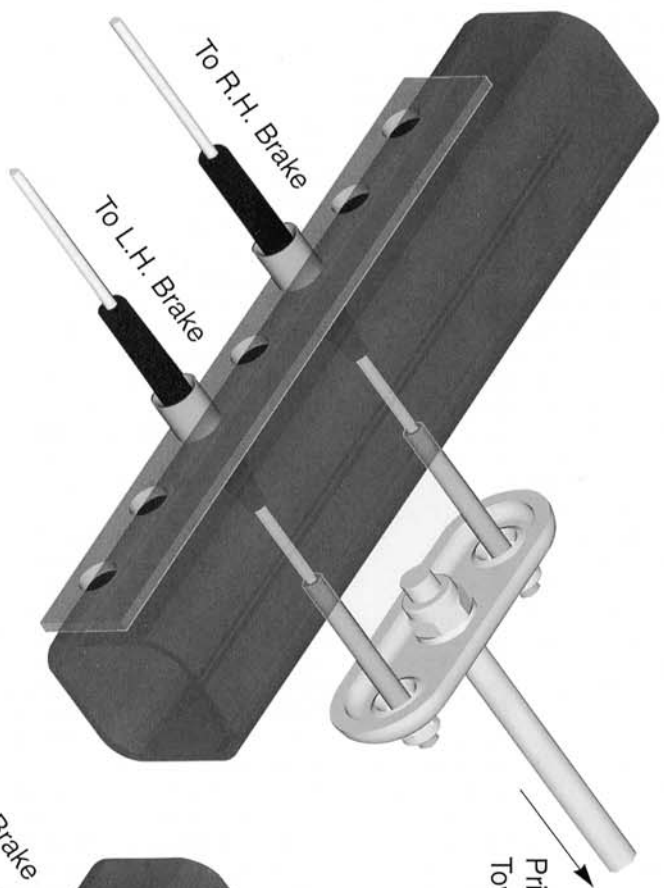
Issue 2

WHEEL CODE	WHEEL SIZE	RIM INSET (-) RIM OFFSET (+)	NO. OF STUDS	PCD mm	STUD SIZE	SEATING OF NUT	TIGHTENING TORQUE Nm	CAPACITY PER SINGLE AXLE kg
1	2.50 x 8	0	4	101.6	3/8"	SPH	48	680
2	2.50 x 8	0	4	100	M12	60°	81	680
3	5.00 x 8	+5	5	140	M14 BOLT	SPH	120	1500
4	3.50 x 10	0	4	101.6	3/8"	SPH	48	860
5	3.50 x 10	0	4	100	M12	60°	81	860
6	3.50 x 10	+6.35	4	139.7	M12	60°	81	1000
7	6.00 x 10	0	5	112	M12	SPH	85	1500
8	4.50 x 12	-30	4	101.6	3/8"	SPH	48	900
9	4.50 x 12	-30	4	100	M12	60°	81	900
10	4.50 x 12	0	5	112	M12	60°	88	1800
11	4.50 x 12	0	5	140	M16	SPH	108	1800
12	4.50 x 12	0	5	165.1	M16	80°	108	1800
13	4.50 x 13	-25.4	4	139.7	M12	60°	88	1300
14	4.50 x 13	-30	4	100	M12	60°	88	1500
15	5.50 x 13	-31.75	4	139.7	M12	60°	88	1500
16	5.50 x 13	-7	5	165.1	M16	80°	108	1900
17	5.50 x 14	-39	5	152.4	M12	60°	81	2352
18	6.00 x 14	+5	6	205	M18	SPH	323	2352
19	5.50 x 14	-30	5	112	M12	60°	81	1800
20	5.50 x 16	-32	5	165.1	M16	80°	108	2640
21	6.00 x 16	0	5	165.1	M16	80°	235	3000
22	6.00 x 16	0	6	205	M18	SPH	323	3000
23	6.00 x 16	0	6	205	M22	80°	460	3000
24	6.00 x 17.5	0	6	205	M18	SPH	323	4000
25	6.00 x 17.5	0	6	205	M22	80°	460	4000

All information provided for guidance only.

Issue 2

# 'SINGLE AXLE' BRAKE CABLE ARRANGEMENT



# 'TWIN AXLE' BRAKE CABLE ARRANGEMENT