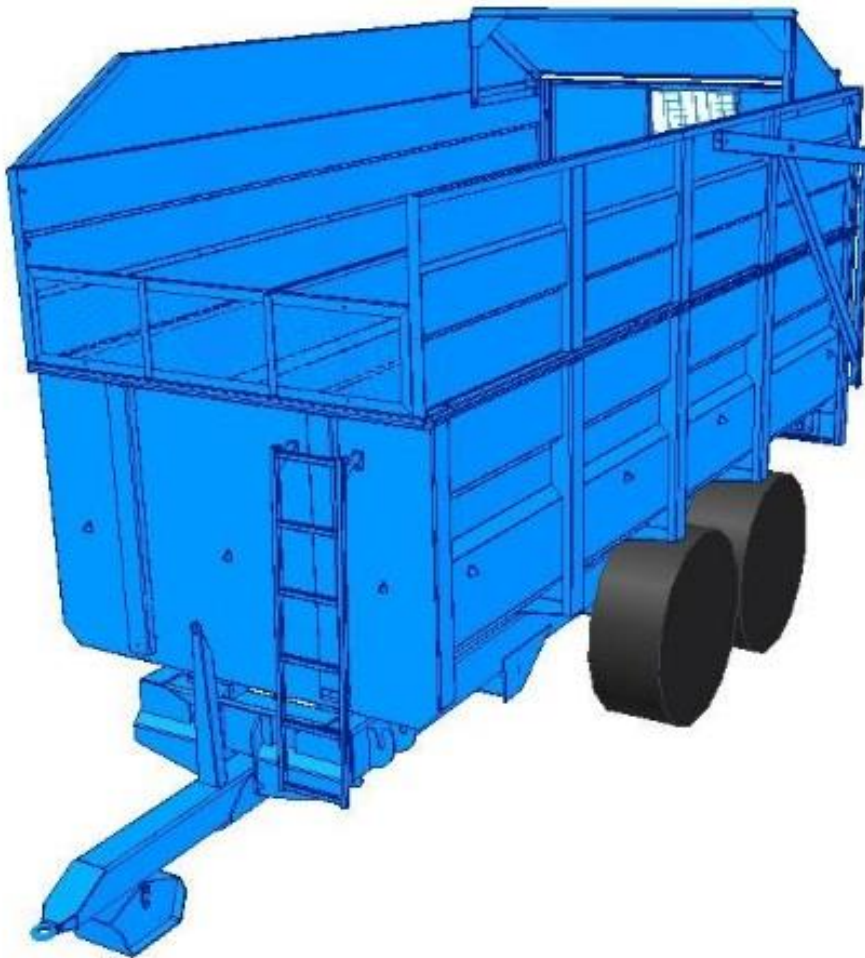




# Trailers

Operator and Parts List  
10 & 12 Tonne



Harry West (Prees) Ltd  
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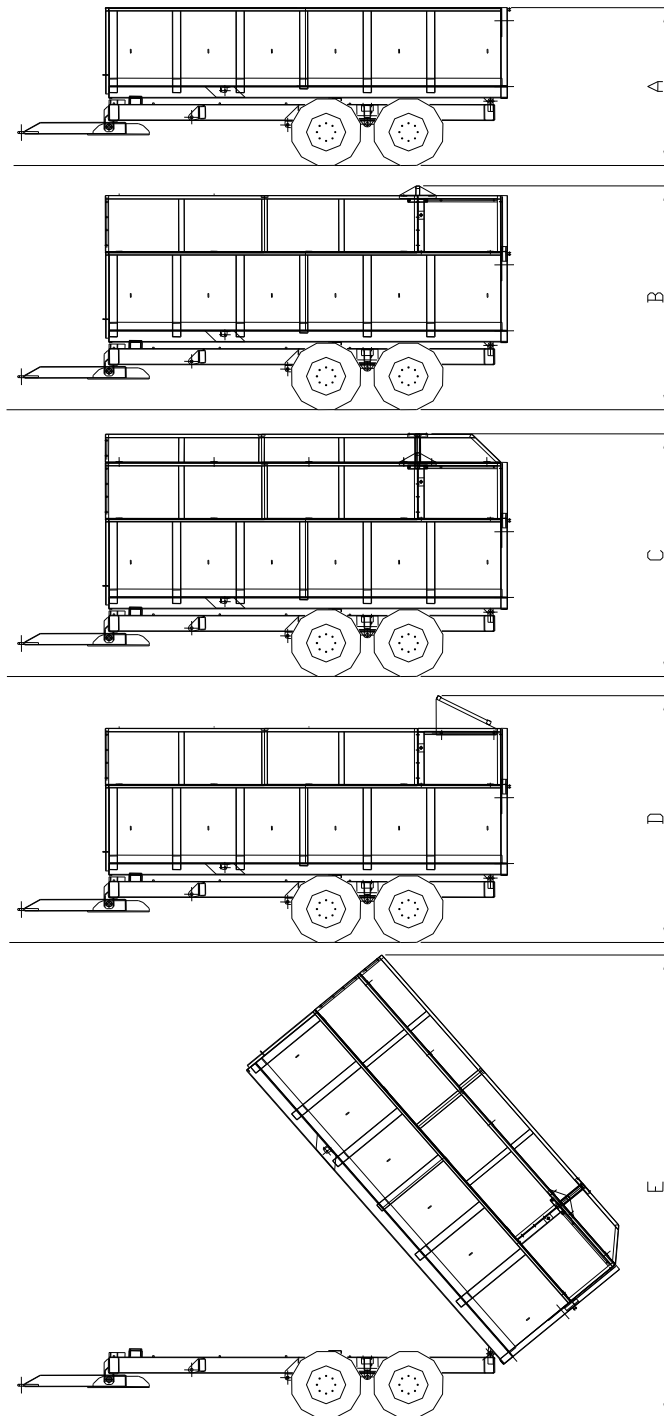
SERIAL N°  
10t XX101681 on  
12t XX12487 on  
14t XX39101 on

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## TRAILER SPECIFICATION.

<b>Standard Trailer (Capacities)</b>	<b>10 Tonne Tandem</b>	<b>12 Tonne Tandem</b>
<b>Internal Body Dimensions</b>		
Width Front	2.034 m (6'8")	2.034 m (6'8")
Width Rear	2.183 m (7'2")	2.183 m (7'2")
Length	4.98 m (16' 4¼")	5.95 m (19'6¼")
Height	1.220 m (4')	1.220 m (4')
Volume (Level Capacity)	12.88 m <sup>3</sup> (455 ft <sup>3</sup> )	15.31 m <sup>3</sup> (541 ft <sup>3</sup> )
Overall Length of Trailer	6.30 m (20' 8¼")	7.32 m (24'0¼")
Height of Floor from Ground	1.05 m (3'5½")	1.36 m (4'5½")
Materials Floor	4 mm	4 mm
Sides	3 mm	3 mm
Angles of Tip	51½°	50°
Hydraulic Cylinders	Two—Three Stage	Two—Three Stage
Axle Wheel Track	1.830 m (6')	1.830 m (6')
Axle Beam Size	80 mm square (3 <sup>1</sup> / <sub>8</sub> ")	80 mm square (3 <sup>1</sup> / <sub>8</sub> ")
Brakes (Hydraulically Operated)	400 x 80 mm (11.8" x 2.36")	400 x 80 mm (15¾" x 3 <sup>1</sup> / <sub>8</sub> ")
Tyre Equipment	385/65R 22.5	385/65R 22.5
Alternative Tyre Equipment	425/65R 22.5	425/65R 22.5
Overall Height Tipped	5.75 m (18'10½")	6.35 m (20'10")
Unladen Weight of Grain Trailer	3.76 Tonnes	4.22 Tonnes
Unladen Weight of Silage Trailer	4.46 Tonnes	4.96 Tonnes
Silage Trailer Additional Height	0.88 m (2'10½")	0.88 m (2'10½")
Volume (Ivel Capacity)	22.17 m <sup>3</sup> (783 ft <sup>3</sup> )	26.3 m <sup>3</sup> (930 ft <sup>3</sup> )

## Trailer Specification Non-silage and silage heights.



	A	B	C	D	E
10t	2461	3488	3782	3848	7220
12t	2461	3488	3782	3848	7220

## **Safety**

- Keep all personnel clear of the machine when operating or manoeuvring.
- Do not permit anyone to ride on the machine.
- Check that hydraulic circuits function, especially the brakes.
- Do not overload, and tip only on level ground.
- Do not exceed speed rating of tyres, axles and braking system.
- Check that the towing tractor is suitable for the trailer gross weight. A suitable tractor will provide safe braking, stability when tipping, and sufficient power for comfortable towing.
- If body is raised for maintenance, cleaning etc, it must be securely propped.
- Check that lights are connected and working before using on the road.
- Check hydraulic hoses for chafing or damage, replace if necessary.
- Check tyre pressure regularly and examine tyres and wheels for damage. Check also that wheel nuts are secure.
- Never tip trailer under electricity cables or doorways.
- Make a thorough check before using the trailer that all parts are secure, particularly axles, body pivots and hydraulic cylinders.
- Never travel with the body in raised position.
- Keep hydraulic couplings clean.

## **Trailer Operating Instructions**

- Couple tractor and trailer on pick-up hook/ring hitch, NOT tractor drawbar.
- The body is raised by single acting, multi stage hydraulic cylinders.
- The brakes operate simultaneously with the tractor brakes.
- Silage and auto-grain gates open through a mechanical linkage system as the body is raised.
- Hydraulic grain gates are operated with double-acting hydraulic cylinders.
- Before loading the trailer, check that these services function correctly.
- The trailer should be uniformly loaded at all times to maintain stability and correct draw bar loadings.
- Operators should be aware of the widely varying densities of commodities. Trailer cubic capacities relate to cereal crops.
- Tip only on firm level ground. Beware of overhead power cables. If tipping inside building ensure there is adequate height.
- Do not leave silage loaded 'overnight'. Silage and similar crops will settle if left forming a solid mass. Always unload silage while it is still free flowing.

## Tyre Specification.

### Tyres and Wheelnuts

Every 8 hours

- Check nut torque
- Check tyre pressures

### Sprung axles

After a short period of use (2 hours)

- Check torque on 'U' bolt nuts at 120lb. Ft.
- Check thereafter every 100 hours.

### Tandem axles

- Oil central pivot pins every 40 hours.

### All pivot and hinge pins

- Oil every 200 hours.

### Wheel Bearings

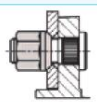
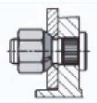
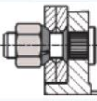
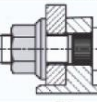

- Grease every 400 hours.
- Adjust wheel bearings if necessary.
- Check and adjust brakes.
- Inspect drawbar ring hitch for wear.

If trailer is laid up for a period of time, lubricate as above, remove drain plugs from inside of body.

TRAILER	TYRE SIZE	PRESSURE		Max Speed
		Bars	PSI	
10 Tonne	385/65R 22.5	5.5	80	20 mph
12 Tonne	385/65R 22.5	5.5	80	20 mph

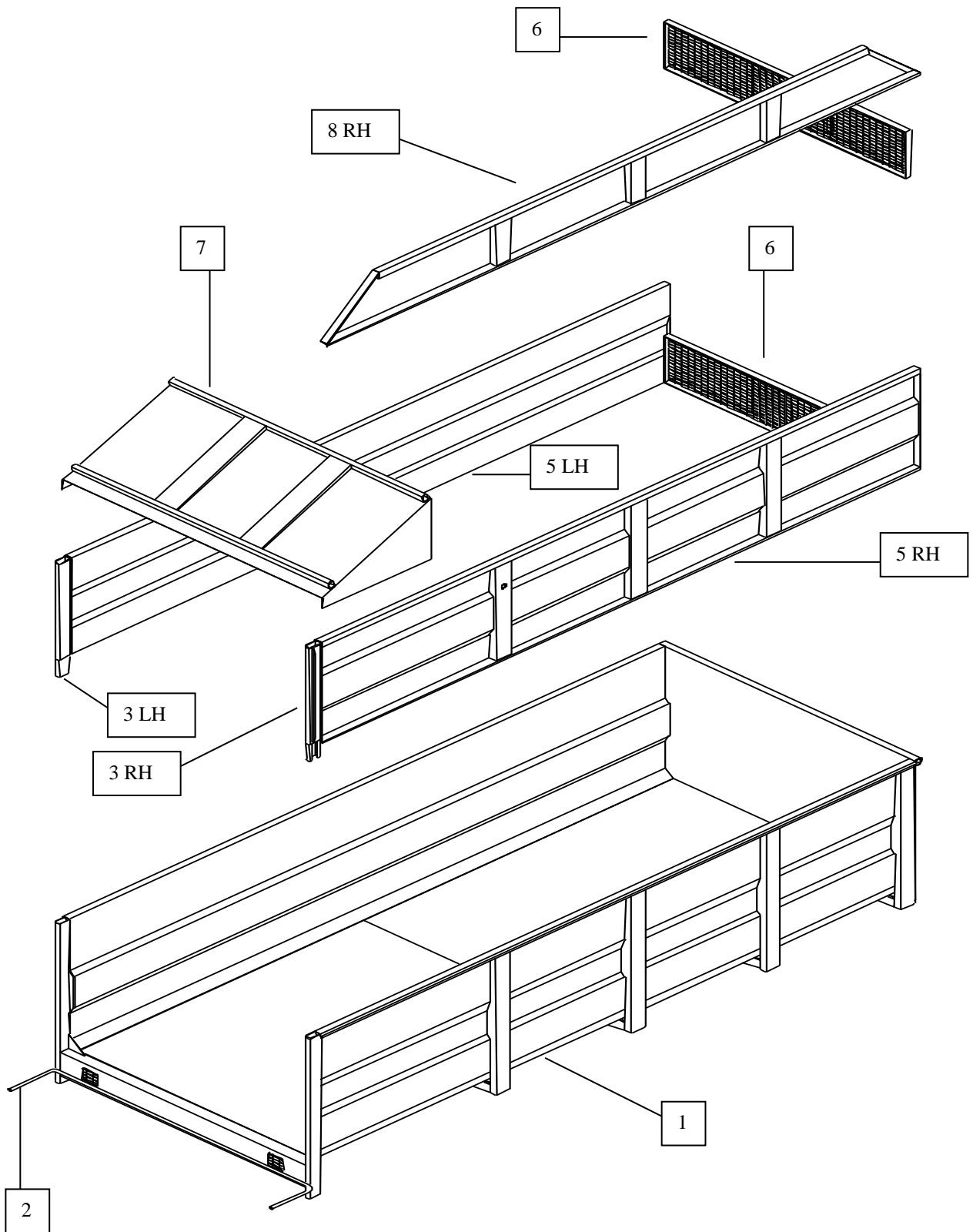
### Wheel Nut and Drawbar Torques

	Drawbar
10 Tonne	637 N/m
12 Tonne	637 N/m

NUT TYPE	Spanner	Wheel stud	Tightening torque	Leverage (*L)	Force (*F)
	mm	mm	Nm	mm	Kg
DIN 	17	M12x1.5	90	300	30
	19	M14x1.5	130	300	40
	24	M18x1.5	270	450	60
Plain nut + washer 	24	M18x1.5	270	450	60
	27	M20x1.5	380	600	60
	30	M22x1.5	510	800	60
"Twin" 	24	M18x1.5	270	450	60
	27	M20x1.5	380	600	60
	30	M22x1.5	510	800	60
"M" 	-	-	-	-	-
	27	M20x1.5	450	800	55
"Bec" 	32	M22x1.5	650	1000	65
	28	M18x1.5	270	450	60
	30	M20x1.5	380	600	60
	32	M22x1.5	510	800	60

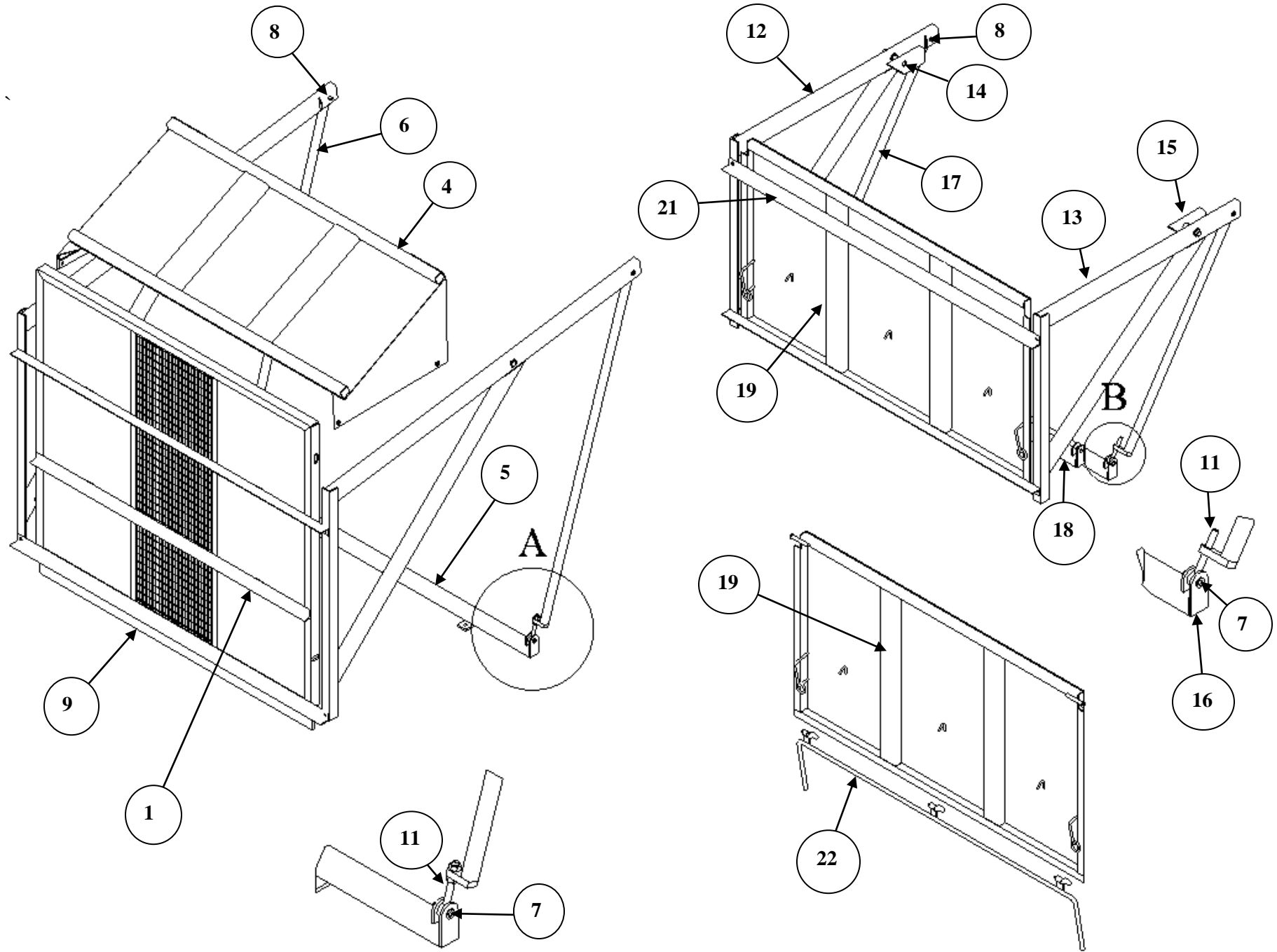
**Trailer Bodies.**

<b>Ref</b>	<b>Description</b>	<b>10 T</b>	<b>12 T</b>
1	Body W/Assy	102001	252001
2	Door Lock Assy	070158	070158
3	Corner Post LH Corner Post RH	070120 070124	070120 070124
4	Ladder W/Assy	252500	252500
5	Silage Panel LH Silage Panel RH	102300 102310	252300 252310
6	Front Panel	070200	070200
7	Canopy	070501	070501
8	Universal Side Loading Panel W/Assy	102280	252280



## Silage, Auto Grain & Standard Grain Accessories

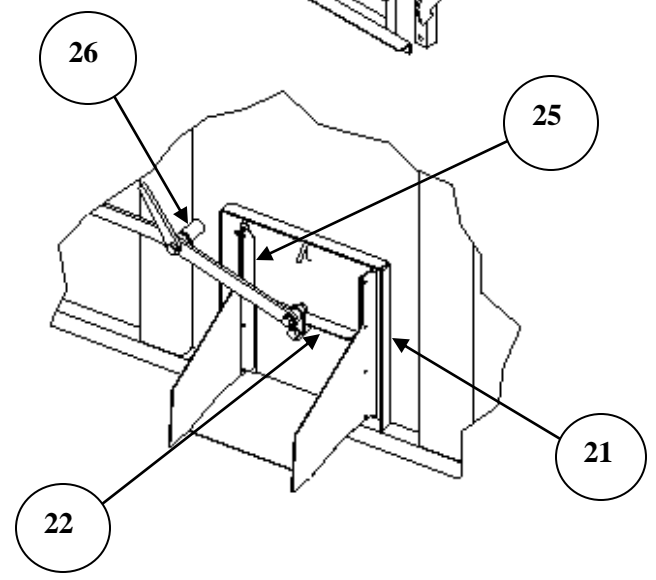
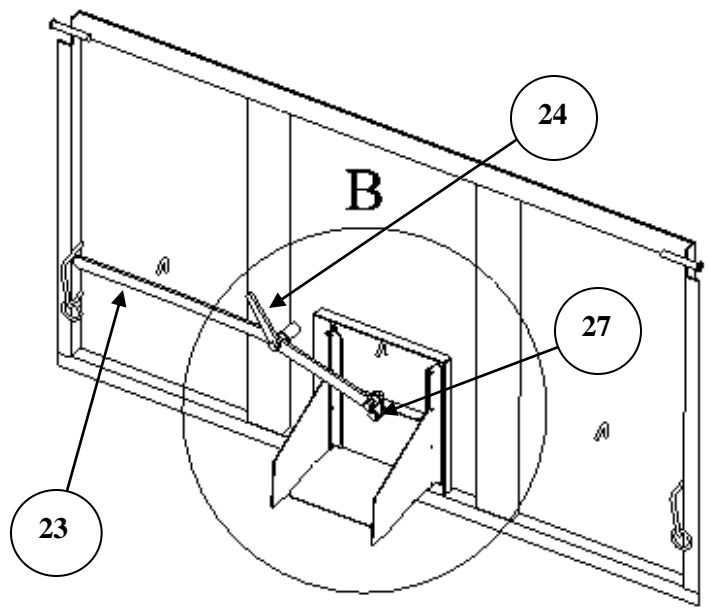
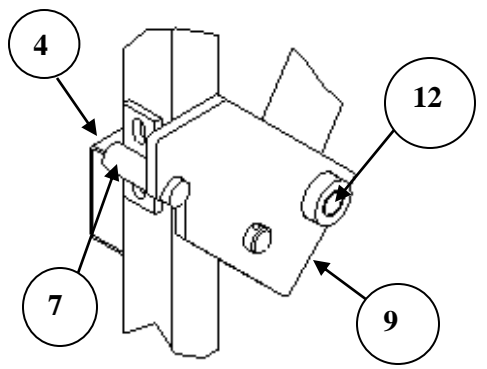
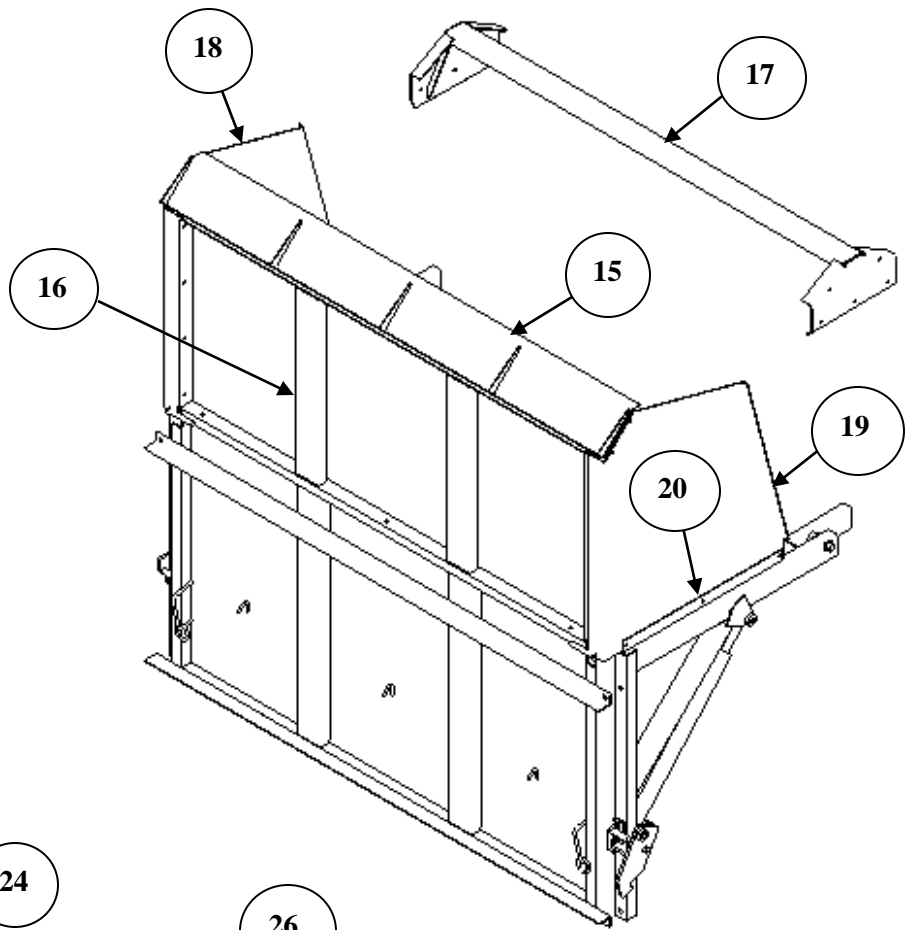
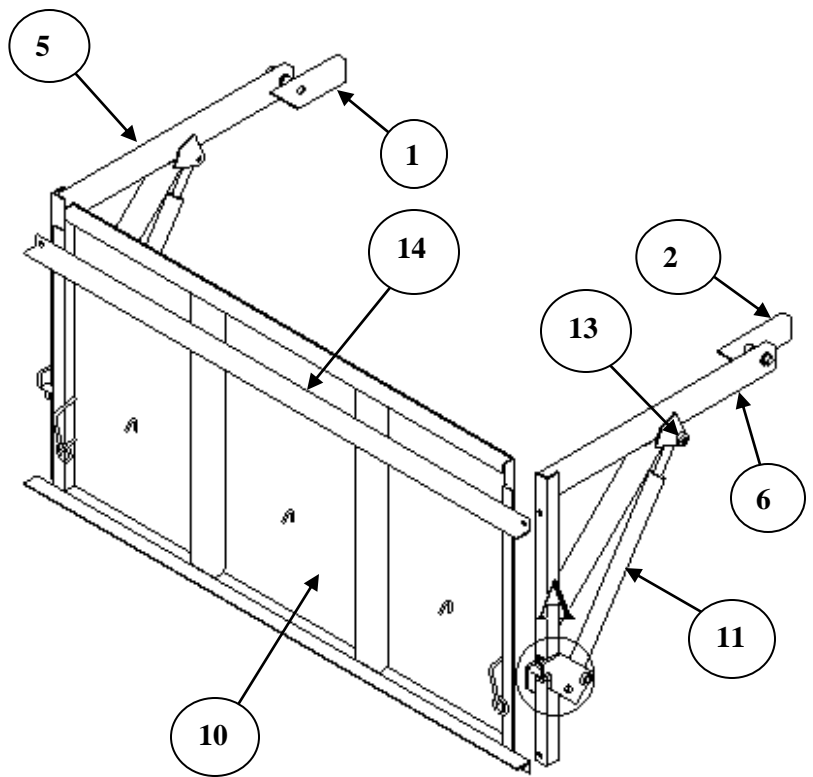
Ref	Description	Part Number	
		10T	12T
	<b>Silage Accessories</b>		
1	Silage Gate	102500	102500
2	LH Silage A-Frame W/Assy	102330	252330
3	RH Silage A-Frame W/Assy	102340	252340
4	Canopy W/Assy	070501	070501
5	Cross Frame W/Assy	070114	251200
6	Strut W/Assy	102112	250112
7	Strut Pin Bottom	070157	070157
8	Strut Pin Top	070156	070156
9	Silage Gate Rubber	102507	102507
10	Rubber Securing Strip	102503	102503
11	$\frac{3}{4}$ " x 6" eyebolt	990514	990514
	<b>Auto Grain Accessories</b>		
5	Cross Frame W/Assy	070114	070114
7	Strut Pin Bottom	070157	070157
8	Strut Pin Top	070156	070156
11	$\frac{3}{4}$ " x 6" eyebolt	990514	990514
12	LH A Frame W/Assy	105330	255330
13	RH A Frame W/Assy	105340	255340
14	LH Auto Grain Pivot W/Assy	255350	255350
15	RH Auto Grain Pivot W/Assy	255360	255360
17	Strut W/Assy	105112	255112
18	Auto Grain Link Up W/Assy	255120	255120
19	Grain Door W/Assy	070053	070053
20	Cross Frame Bolting Angle	251109	251109
21	Top & Bottom Angle	070609	070609
	<b>Standard Grain Accessories</b>		
19	Grain Door W/Assy	070053	070053
22	Locking Bar W/Assy	070158	070158



### Hydraulic Grain, Hydraulic Silage/Grain & Grain Chute Accessories

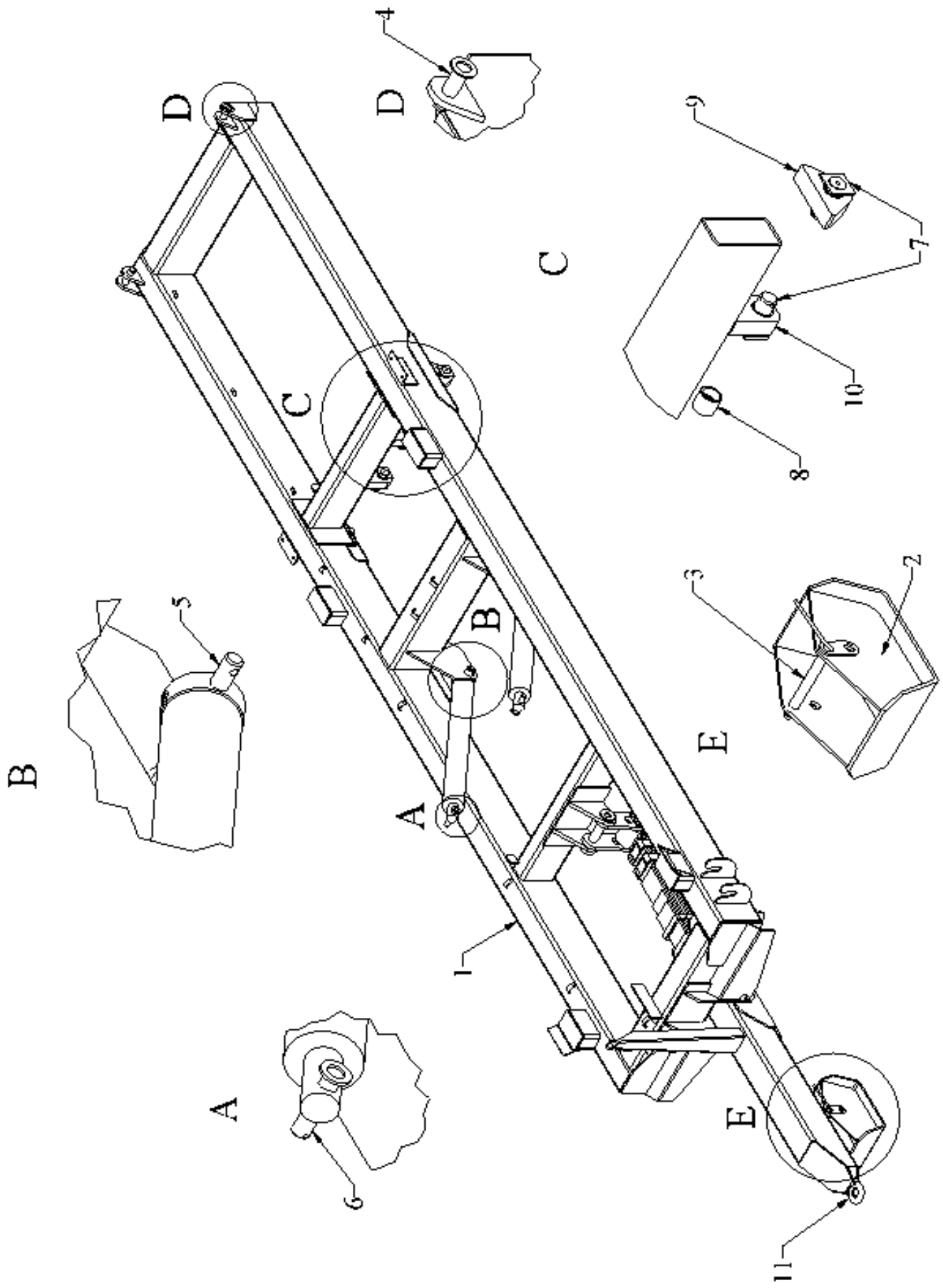
9Ref	Description	Part Number	Ref	Description	Part Number
	<b>Hydraulic Grain Accessories</b>	<b>10T/12T</b>			<b>10T/12T</b>
1	LH Hyd. Grain Pivot W/Assy	102350/pin only- 102354/ A-frame pivot w/a	8	LH Ram/Lock Bracket W/Assy	390340
2	RH Hyd. Grain Pivot W/Assy	102351/pin only- 102354/ A-frame pivot w/a	9	RH Ram/Lock Bracket W/Assy	390350
3	LH Pivot (Lock Plate) W/Assy	390360	10	Grain Door W/Assy	070053
4	RH Pivot (Lock Plate) W/Assy	390370	11	Hydraulic Grain Cylinder	990252
5	LH Hyd. Grain Lift Frame W/Assy	102361/102361/ 390310	12	Lower Ram Pin	390380
6	RH Hyd. Grain Lift Frame W/Assy	102362/102362/ 390320	13	Top Ram Pin	070625
7	Locking Pin W/Assy	390330	14	Top & Bottom Angle	070609
8	LH Ram/Lock Bracket W/Assy	390340	15	Hyd. Silage/Grain Canopy W/Assy	252410
9	RH Ram/Lock Bracket W/Assy	390350	16	Rear Fence Panel W/Assy	252420
10	Grain Door W/Assy	070053	17	Tie Beam W/Assy	255450
11	Hydraulic Grain Cylinder	990252	18	LH Side Fill Plate	252415
12	Lower Ram Pin	390380	19	RH Side Fill Plate	252416
13	Top Ram Pin	070625	20	Panel Bolting Angle	252417
14	Top & Bottom Angle	070609		<b>Grain Chute Accessories</b>	
	<b>Hydraulic Silage/Grain Accessories</b>	<b>10T/12T</b>	10	Grain Door W/Assy	070053
1	LH Hyd. Grain Pivot W/Assy	102350/ pin only-102354	21	Grain Chute W/Assy	105380
2	RH Hyd. Grain Pivot W/Assy	102351/ pin only-102354	22	Chute Gate W/Assy	102516
3	LH Pivot (Lock Plate) W/Assy	390360	23	Chute Lever W/Assy	102680
4	RH Pivot (Lock Plate) W/Assy	390370	24	Locking Handle W/Assy	102523
5	LH Hyd. Grain Lift Frame W/Assy	102361	25	Chute guide Angle	102520
6	RH Hyd. Grain Lift Frame W/Assy	102362	26	Boss	102521
7	Locking Pin W/Assy	390330	27	Chute Link	102683

6

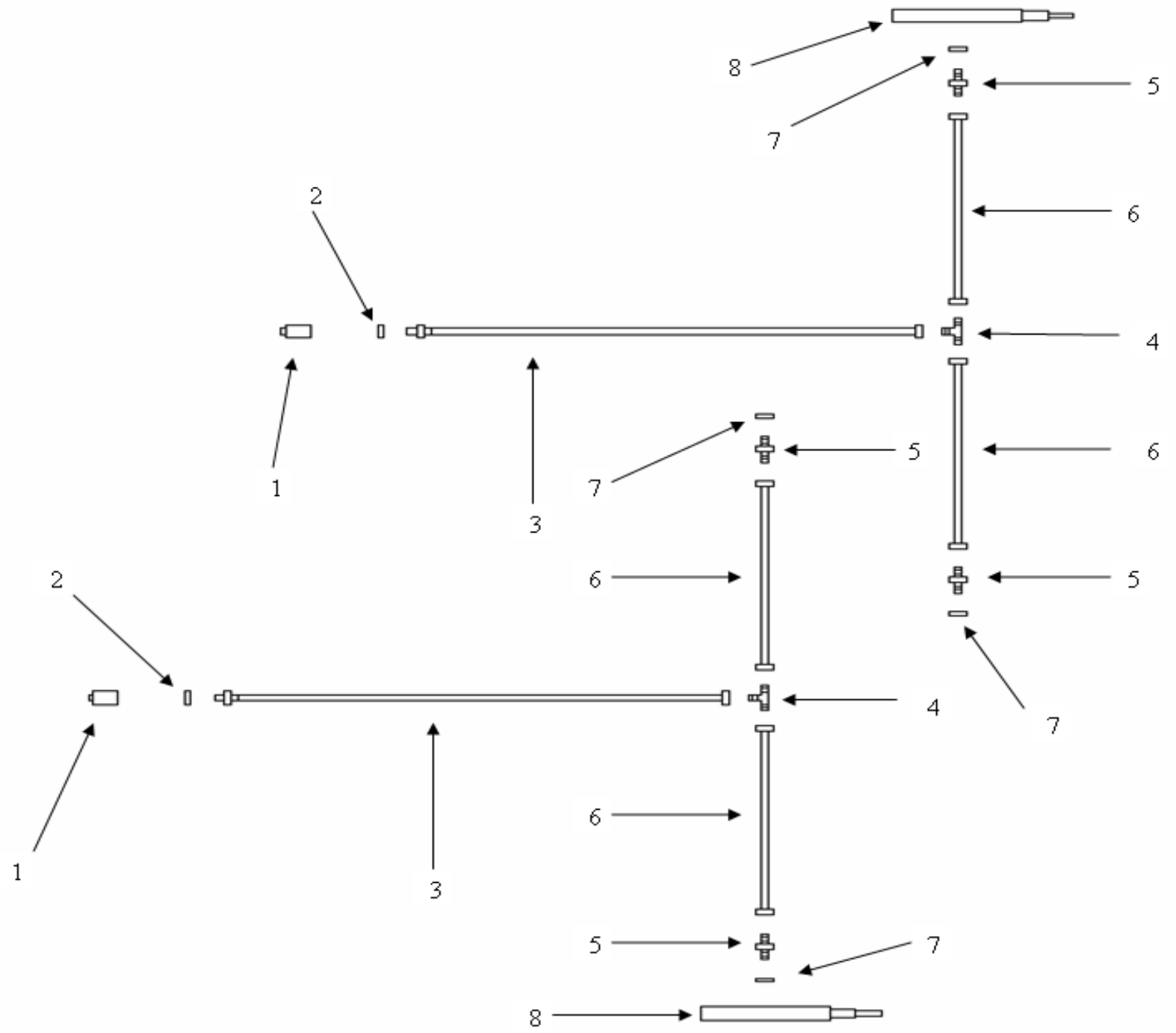


### Trailer Chassis.

<b>Ref</b>	<b>Description</b>	<b>10 T</b>	<b>12 T</b>
1	Chassis Complete	101100	251100
2	Skid	100175	100175
3	Skid Pin	100144	100144
4	Body Pivot Pin	070155	070155
5	Bottom Cylinder Pin	250049	250049
6	Top Cylinder Pin	070154	250154
7	Axle Pivot Pin	070147	070147
8	Axle Pivot Bush (Nylon)	080069	080069
9	Axle Pivot Block Outer	251121	251121
10	Axle Pivot Block Inner	251122	251122
11	Drawbar Ring Hitch	990506	990506

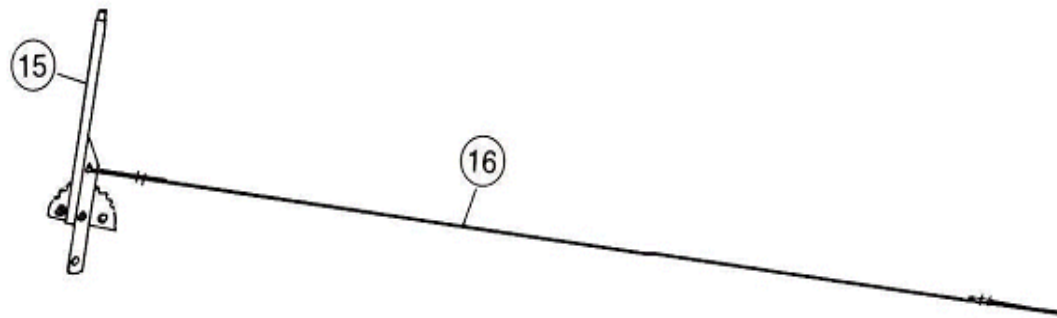
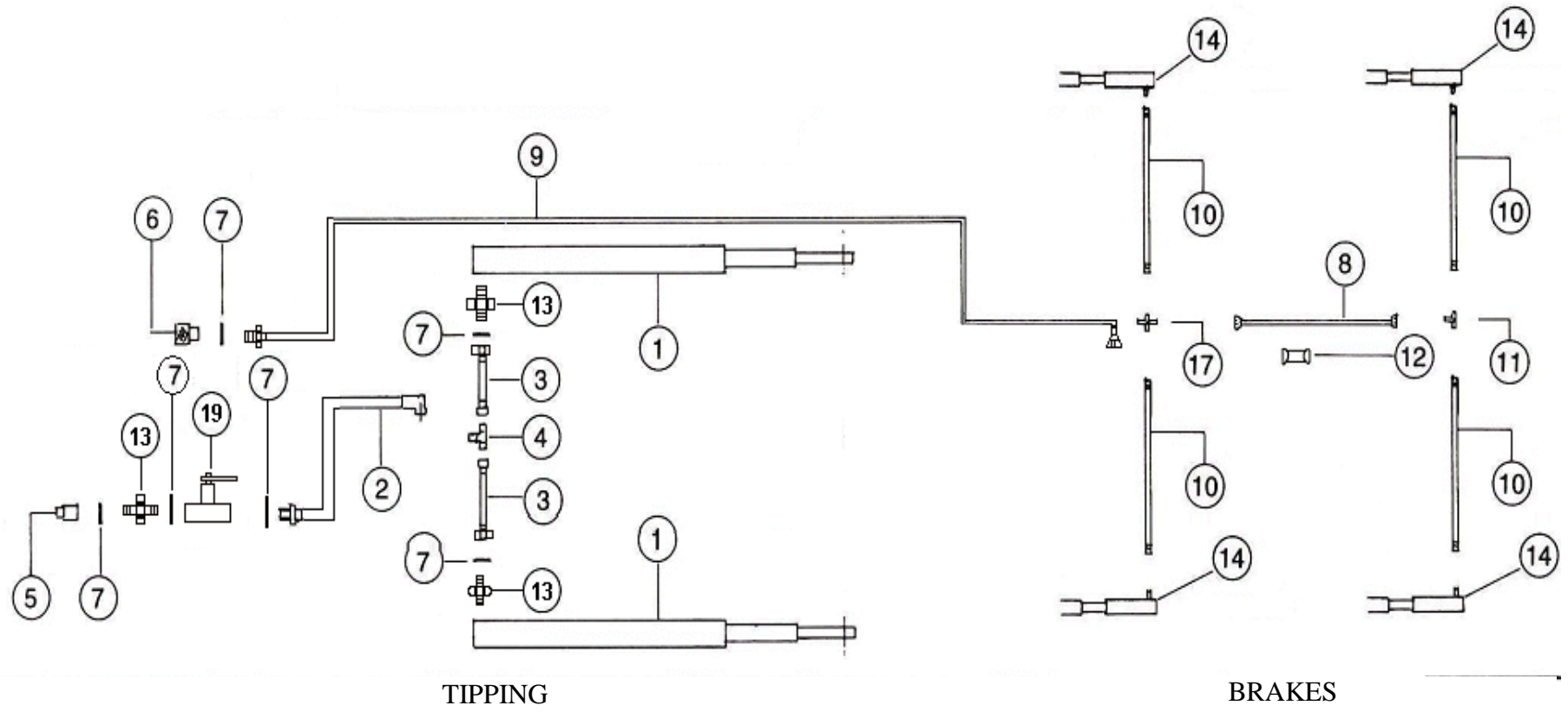






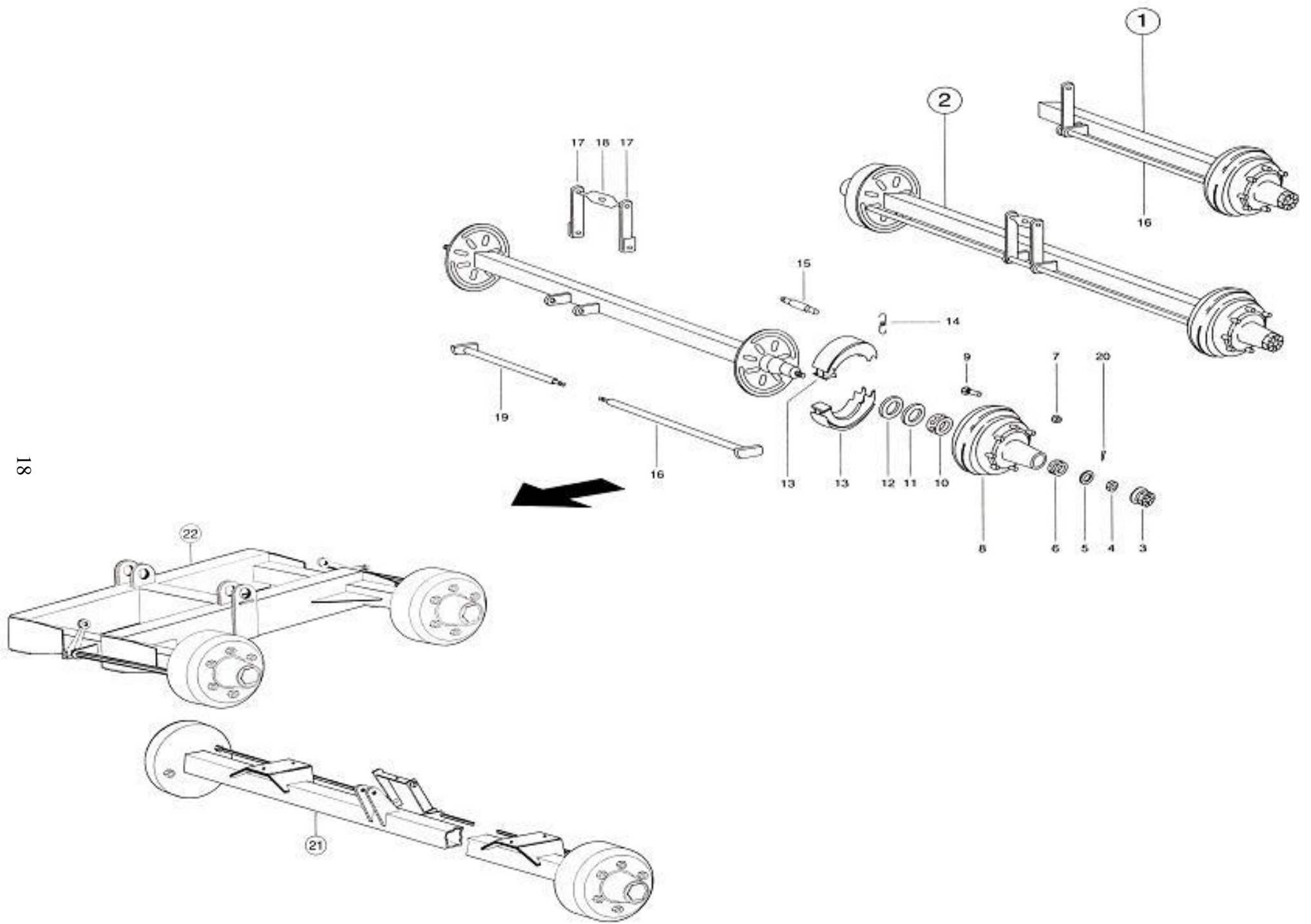
## Trailer Brakes & Hydraulics.

<b>Ref</b>	<b>Description</b>	<b>10 T</b>	<b>12 T</b>
1	Lift Cylinder	990256	990257
2	Long Tip Hose	102650	250301
3	Short Tip Hose	102651	250302
4	½" Tee Male	✓	✓
5	Male Quick Release Coupling	✓	✓
6	Female Quick Release Coupling	✓	✓
7	Dowty Sealing Washer (6)	✓	✓
8	Cross to Tee Hose	N/A	160506
9	Main Brake Hose	102652	250303
10	Short Brake Hose	102653	Rear 250305 Front 250306
11	3/8" Tee Male	✓	✓
12	3/8" Adaptor Female/Female	✓	N/A
13	½" Adaptor Male/Male	✓	✓
14	Brake Cylinder	990655	990655
15	Handbrake Lever	261705	261705
16	Cable	✓	✓
17	3/8" Cross Male	✓	✓
18	Cylinder Seal Repair Kit	990609	990615WR
19	Lockable Valve	990269	990269

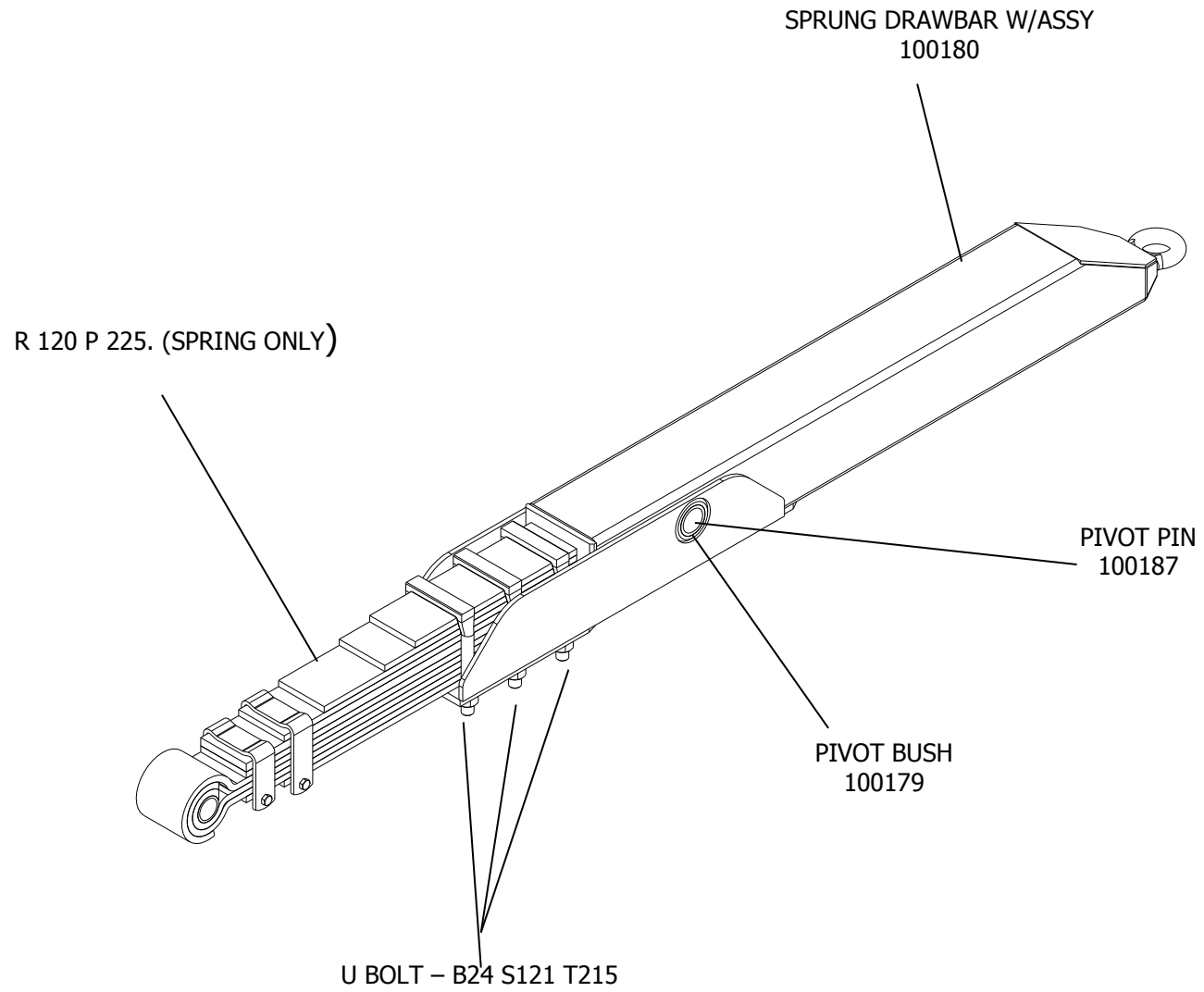


### Trailer Axles.

<b>Ref</b>	<b>Description</b>	<b>10 T</b>	<b>12 T</b>
1	Axle	Colaert	Colaert
2	Stub Axle	A 8087140G	A 8087140G
		S 8087140G	S 8087140G
3	Hub Cap	912 T 110	912 T 110
4	Locknut	8080 F 48/70	8080 F 48/70
5	Washer	-	-
6	Outer Bearing	902 CC 32212	902 CC 32212
7	Wheel Nut	9030 188 G	9030 188 G
8	Hub & Brake Drum	Hub 904L 8 110/130 Drum 808TL 400808	Hub 904L 8 110/130 Drum 808TL 400808
9	Wheel Stud	903 C 18 L1	903 C 18 L1
10	Inner Bearing	902 CC 32215	902 CC 32215
11	Nilos Ring	-	-
12	Washer	Seal 196 PG 16	Seal 196 PG 16
13	Brakeshoe/Lining	9 FC1400ZO + Lining	9 FC1400ZO + Lining
14	Spring	914 M 400/25	914 M 400/25
15	Brakeshoe Pivot	914 PF 40081	914 PF 40081
16	Cam Rod Long	909 P 032 L	909 P 032 L
17	Cam Lever	909 F32	909 F32
18	Compensator	904 ZB 1L 136/160	904 ZB 1L 136/160
19	Cam Rod Short	909 P 032 S	909 P 032 S
20	Split Pin 50 x 50	21	21
21	Axle W/A	100060 (2)	250601 (2)
22	Tandem Axle W/A	100060	250060



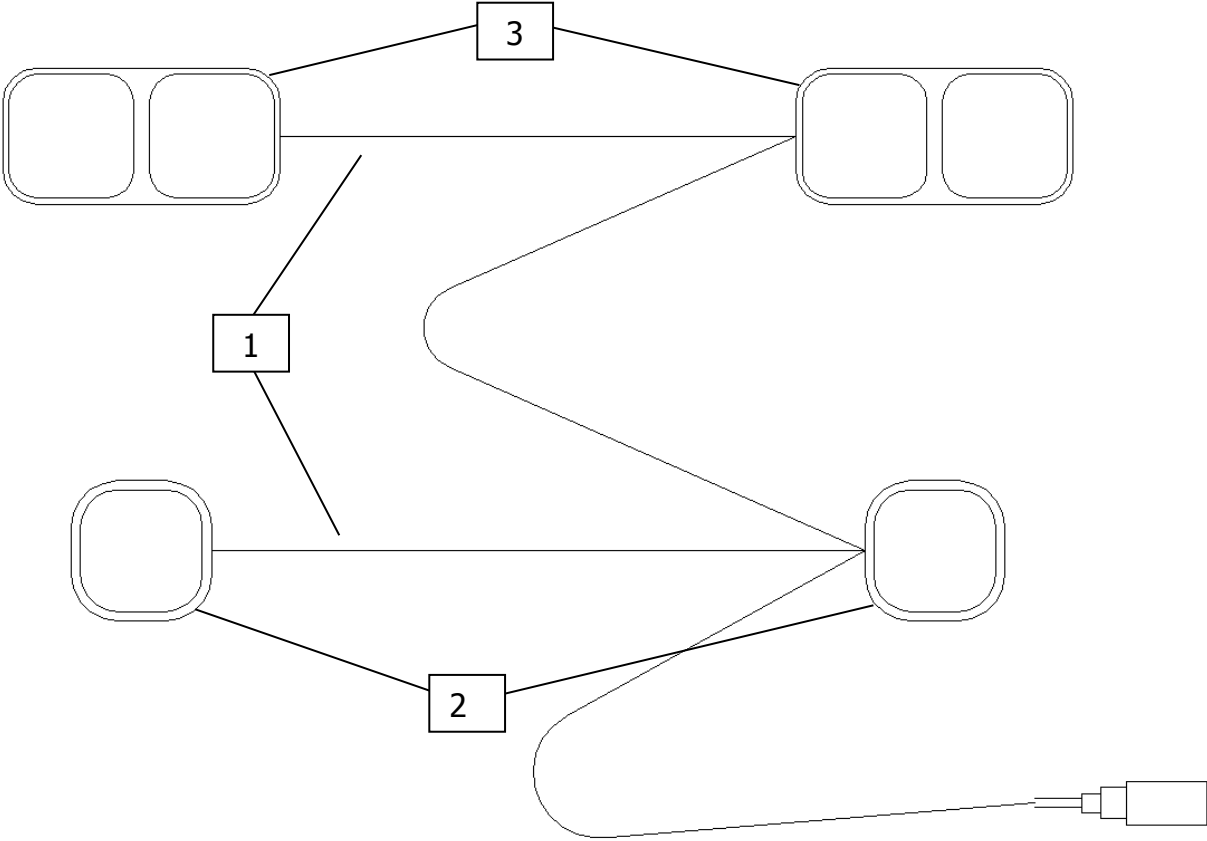
# Sprung Drawbar.



Trailer Lighting.

20

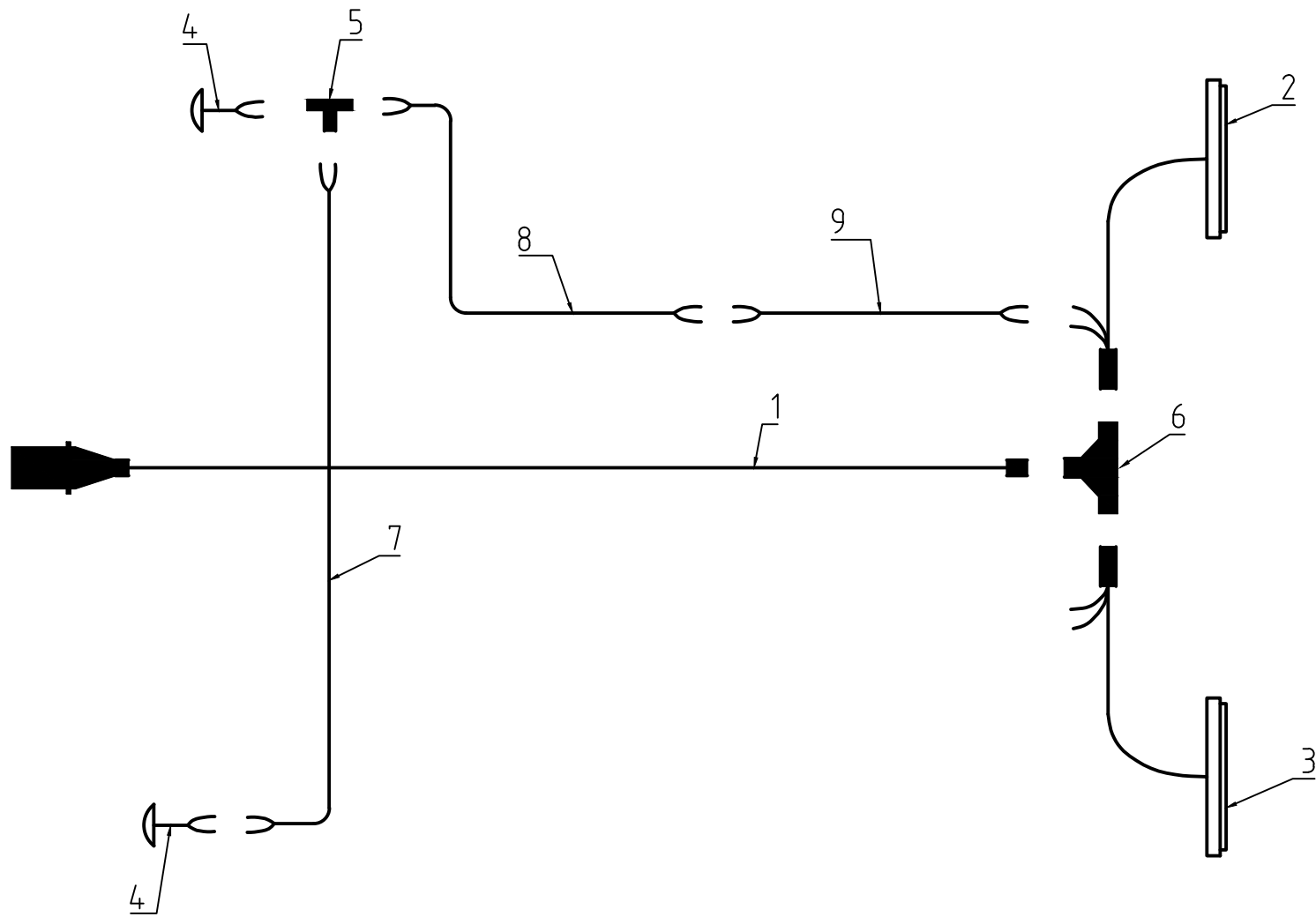
Ref	Description	Part No.
1	12T Lighting Kit (10T)	252901 BR
2	Front Light (with bulbs)	252901 BR FL GE2619F
3	Rear Lights (with bulbs)	252901 BR RL GE1057F (orange bulb) GE1077F (red bulb)



**CANCELLED 2019**

## Complete Light Circuit 2590101

<b>Ref</b>	<b>Description</b>	<b>10t &amp; 12t</b>	<b>Qty</b>
1	8 Core Main Chassis Cable – 12m	8P12	1
2	Low Profile Trailer Lamp - Right	EU200 - 6P1.2R	1
3	Low Profile Trailer Lamp - Left	EU200 - 6P1.2L	1
4	Front Marker Lamp	37WM2P	2
5	Twin Core T- Piece	2PTP	1
6	7 Pin Connector	8PTP	1
7	Twin Core Marker Lamp Cable - 2m	2C200B	2
8	Twin Core Marker Lamp Cable - 4m	2C400B	1
9	Twin Core Marker Lamp Cable - 3m	2C300B	1





INSPECTION REF: \_\_\_\_\_

# THE TILLY TRAILER INSPECTION MAINTENANCE SERVICE CERTIFICATE

This check sheet is designed to help ensure this trailer/rolling stock is correctly maintained.  
All safety critical items should always be serviced and maintained by a qualified mechanic.

**THE RESPONSIBILITY FOR THE PROVISION OF A SAFE VEHICLE REMAINS WITH THE OWNER**

Name:	
Address:	
Post Code:	
Make:	
Chassis No.:	
Tilly Certificate No.:	ISSUED AFTER A FULLY PASSED TILLY INSPECTION.

KEY	
Adjusted	<b>A</b>
Not Applicable	<b>NA</b>
Needs Attention	<b>ATT</b>

Record the result of each check using the appropriate abbreviation in the **RESULT** column below or tick the relevant **TILLY PASS** column.

MECHANIC CHECK LIST	RESULT	TILLY PASS
1. Check TRAILER lights are functioning correctly.		<input type="checkbox"/>
2. Check tyres have legal tread depth, no cuts, bulges, or cord/thread showing.		<input type="checkbox"/>
3. Check towing eye thickness.		<input type="checkbox"/>
4. Check suspended draw bar U bolts & springs if applicable		<input type="checkbox"/>
5. Check drawbar & chassis for cracks.		<input type="checkbox"/>
6. Check Axle springs and U bolts including rocking beams if applicable.		<input type="checkbox"/>
7. Check all pins & bushes.		<input type="checkbox"/>
8. Check the ram seals.		<input type="checkbox"/>
9. Check all hydraulic pipes, connectors & air lines for cuts, chafing & leaks.		<input type="checkbox"/>
10. Check brake shoes and shoe springs for adjustment.		<input type="checkbox"/>
11. Check brake drums for excessive wear, grooves and thickness.		<input type="checkbox"/>
12. Check wheels studs & nuts.		<input type="checkbox"/>
13. Check there are no structural cracks or holes by raising the tipping bed if applicable.		<input type="checkbox"/>
14. Check the tailgate is secure & is not leaking.		<input type="checkbox"/>
15. Check the hand/park brake and cable.		<input type="checkbox"/>
16. Check the appropriate stand is in good working order.		<input type="checkbox"/>
17. Check wheel bearings for wear if necessary clean and re-pack.		<input type="checkbox"/>
18. Check all grease points are made serviceable.		<input type="checkbox"/>

COMMENTS/NOTES
Please make notes on specific items using the relevant key code or any other comments on this trailer inspection.

MECHANICS NAME
COMPANY NAME
DATE

**FULL DAILY AND PRE-SEASONAL CHECKS MUST BE CARRIED OUT BY A FULLY TRAINED OPERATOR/OWNER**

**email: [tillypass@gmail.com](mailto:tillypass@gmail.com) | [www.tillypass.co.uk](http://www.tillypass.co.uk)**

White Copy to be retained by Owner | Green Copy to be retained by Mechanical Engineer | Blue Copy to be sent to Tilly Organisation