



CBS Products Ltd, Pillings Road, Oakham, Rutland, LE15 6QF. UK Telephone: +44(0)1572 723665
Fax: +44(0)1572 756006 E-Mail: sales@cbsproducts.com Website: www.cbsproducts.com

C-130-F

MODEL 5.15 CABLE DRUM TRAILER

OPERATING AND MAINTENANCE MANUAL

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WELCOME TO YOUR NEW CDT 5.15 EEC CABLE DRUM TRAILER

This trailer is suitable for the loading and transportation of circular drums/cable reels with maximum sizes and weights as described below
Once on site, a further function of the unit is to assist in the reeling/unreeling of the payload i.e. power cable, telecoms cable, hose or pipe.

Trailer specification

Gross weight	-	6500 kgs
Capacity at full drum width	-	5150 kgs
Drum diameter max	-	3100 mm
Drum diameter min	-	1350 mm
Drum width	-	1390 mm
Trailer width	-	2550 mm
Tyre size	-	11.00 R22.5
Towing speed (max)	-	100 kmh

It is very important that a few basic checks are carried out on receipt of your new trailer and also whilst it is in service

Wheel nut tension (335 lb/ft)
Tyre pressures (125 psi)
Braking system
Electrical system
General condition

It is the driver's responsibility to ensure the vehicle is capable of towing the trailer and that the trailer it is in road worthy condition. (See pre use check list page CDT 5.15-3)

Operating instructions

Safety

Ensure only trained personnel operate the trailer
Ensure that the safety of yourself and others is observed at all times.

Loading a cable drum

1. Remove the 'R' clips from spindle retaining angles and then remove from the trailer (ref CDT5.15-6)
2. Remove spindle bar from trailer, place it through the cable drum ensuring it is central to the spindle and then lock in position with spindle collars provided
3. Using the correct manual handling techniques manoeuvre the trailer around drum or push the drum into the trailer
4. It may be necessary to pump up the slides to allow spindle bar to locate into the correct position
5. When spindle is located into slides apply the park brake
6. Replace retaining angles and clips
7. Lower and secure rear prop stands
8. Close hydraulic release valve on hand pump (ref CDT5.15-7)
9. Pump handle up and down to lift cable drum into travelling position
10. It may be necessary to adjust the hydraulic control valve located behind hand pump to maintain a level lift (ref CDT5.15-7)
11. Once slides are at maximum lift rotate locking plates through 90 degrees (ref CDT5.15-6)
12. Release hydraulic pressure by opening the hydraulic release valve to engage the mechanical locks, once engaged close the hydraulic release valve thus creating a secondary lock. Always ensure the locks are located in the slotted seat.
13. Lift and secure prop stands
14. Hitch trailer to towing vehicle
15. Connect and test electrics, airbrakes and ABS

Unloading a cable drum

1. Lower and secure prop stands
2. Pump handle up and down to lift slides and release the mechanical locks
3. Once slides are at maximum lift rotate locking plates through 90 degrees
4. Release hydraulic pressure to allow the drum to descend
5. It may be necessary to adjust hydraulic control valve located behind hand pump to maintain a level descent
6. Once cable drum is on the ground remove clip from spindle retaining angle and then lift off the retaining angle
7. Using the correct manual handling techniques manoeuvre the trailer from around drum
8. Replace retaining angle and clips
9. lift and secure prop stands

Trailer Pre Use Check List

It is important to note that it is the responsibility of the driver to ensure that a trailer is road worthy, that the load is safe and is suitable to be towed by a specific prime mover.

Before taking the trailer out on the highway, carry out the following simple checks.

1. Ensure (by checking the vehicle vin plate or handbook) that the prime mover and towbar are capable of towing the gross vehicle weight of the trailer (found on the trailer spec plate).
2. Check the brake operation and linkage.
3. Connect the air brake Susie hoses then check operation and inspect hoses for leaks
4. Connect the electrical cable and check all the lighting functions.
5. Check tyre tread, tyre pressure (125 psi) and general wheel/tyre condition.
6. Check wheel nut torque weekly (335 lb/ft).
7. Check condition of drum spindle and ensure locking collars are fitted.
8. Check condition of spindle retaining angles and ensure all securing 'R' clips are fitted.
9. Ensure the drum frames are raised and locked in position and lock plates are seated in slotted seat.
10. Carry out a visual inspection for general condition and wear.

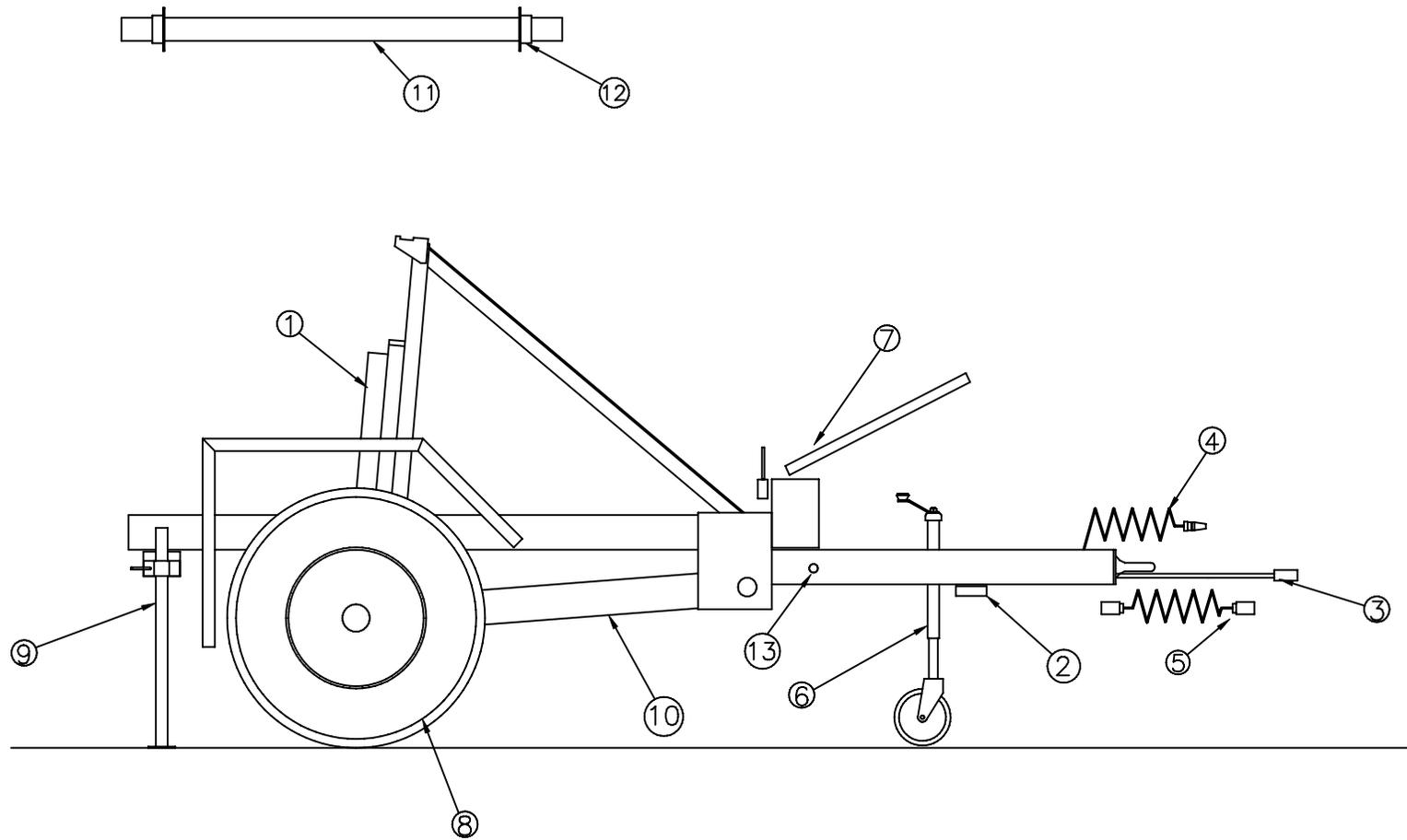
Recommended maintenance

On delivery of your new cable drum trailer and during its service life we recommend regular checks are carried out on the following

	Daily	Monthly	Yearly
a) Visual inspection of general condition			
b) Check hand brake operation			
c) Check tyre pressure			
d) Check electrical system (i.e. light bulbs, plug)			
e) Check hydraulic circuit for leaks			
f) Check brake lining adjustment			
g) Remove play from brake system			
h) Check operation of air brake system			
i) Check and test air brakes/ABS system			
j) Check wheel nut torque			
k) Check brake cam lever operation			
l) Check suspension rubbers			
m) Check wheel arm adjustment			
n) Grease all points			
o) Wheel bearings			
p) Full service			

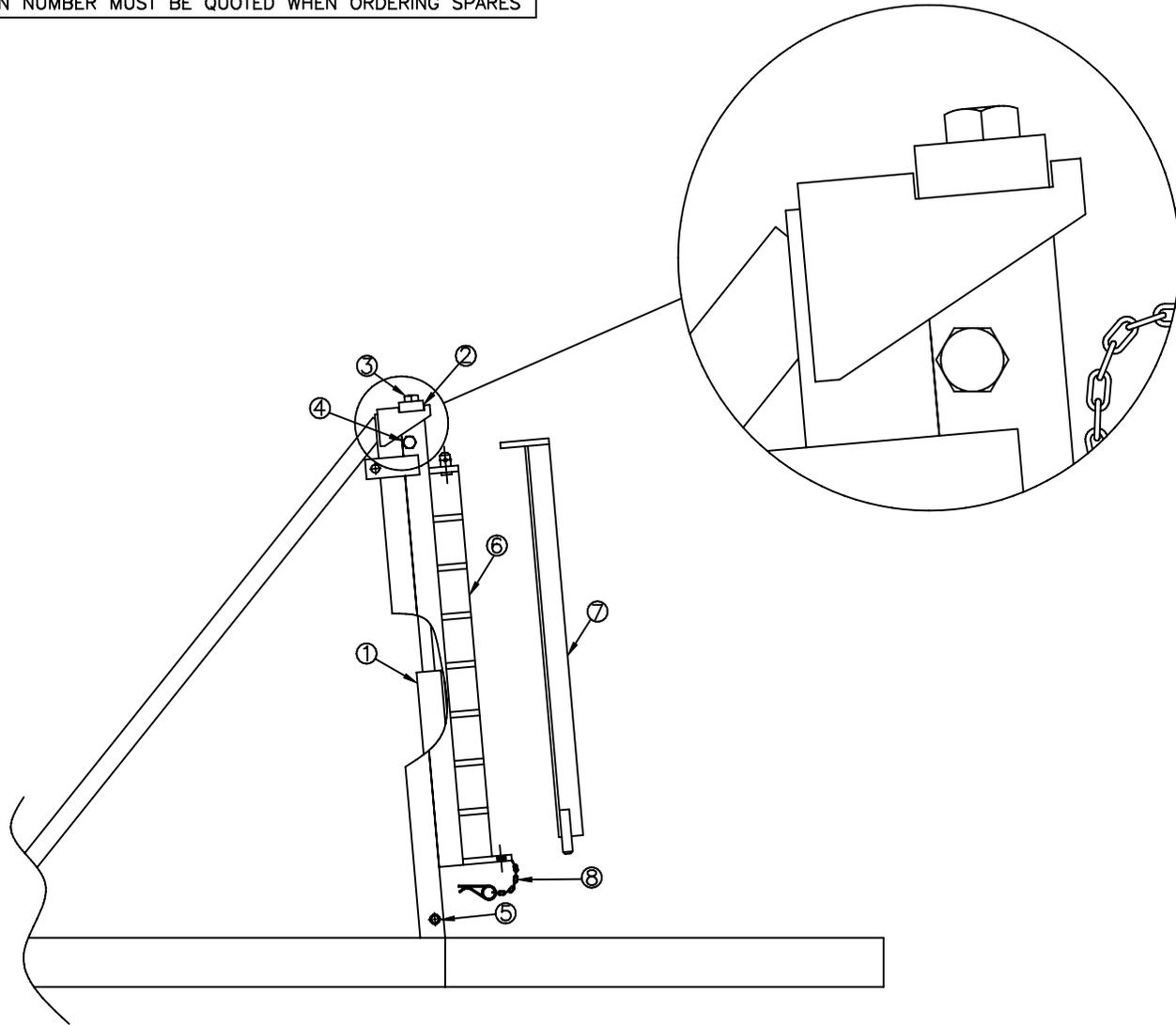
TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARES

PARTS LIST	
ITEM	DESCRIPTION
1	SLIDING CHEVRONS
2	HANDBRAKE
3	ELECTRICAL SYSTEM
4	AIR BRAKE SUSIE
5	ABS SUSIE
6	JOCKEY WHEEL
7	PROP STANDS
8	WHEEL & TYRE
9	HYDRAULIC SYSTEM
10	WHEEL ARM
11	SPINDLE
12	SPINDLE COLLAR
13	ABS DIAGNOSTIC SOCKET



								DATE	14/11/2008	TITLE	GENERAL ARRANGEMENT
								SCALE	N.T.S.		
REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	NAME	S.LAWSON	DRG No.	CDT 5.15 - 5

TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARES

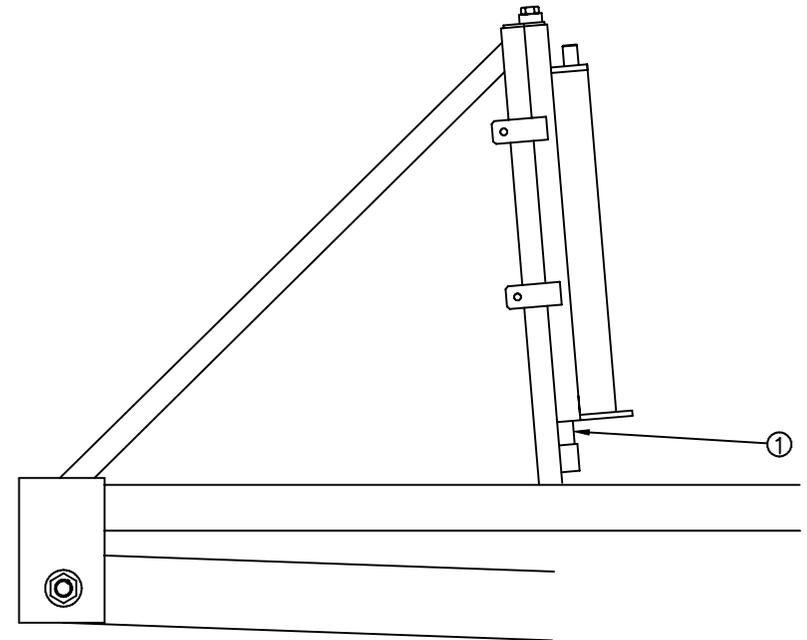
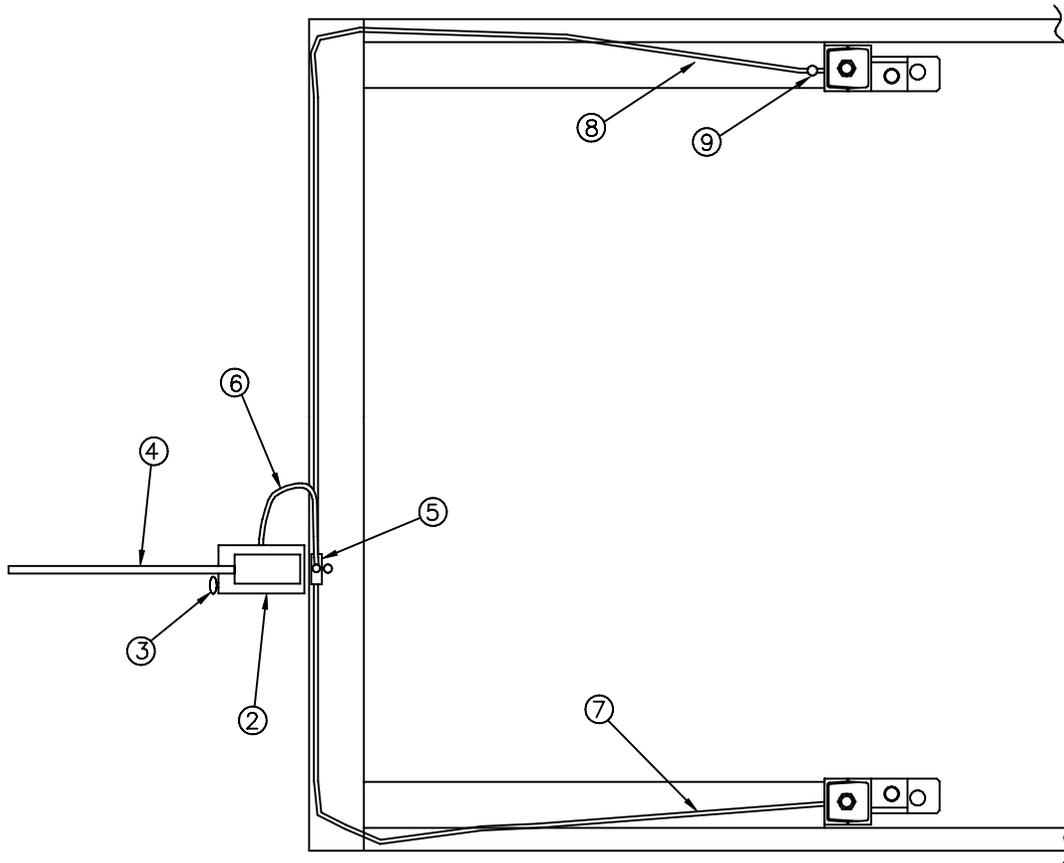


PARTS LIST	
ITEM	DESCRIPTION
1	HYDRAULIC RAM
2	MECHANICAL LOCK
3	MECHANICAL LOCK BOLT
4	HYDRAULIC RAM TOP BOLT
5	HYDRAULIC RAM BOTTOM BOLT
6	SLIDE
7	SPINDLE RETAINING ANGLE
8	RETAINING 'R' CLIP
9	SLIDE RETAILING BOLT

								DATE	14/11/2008	TITLE	LIFT FRAME DETAIL
								SCALE	N.T.S.		
REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	NAME	S.LAWSON	DRG No. CDT 5.15 - 6

TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARES

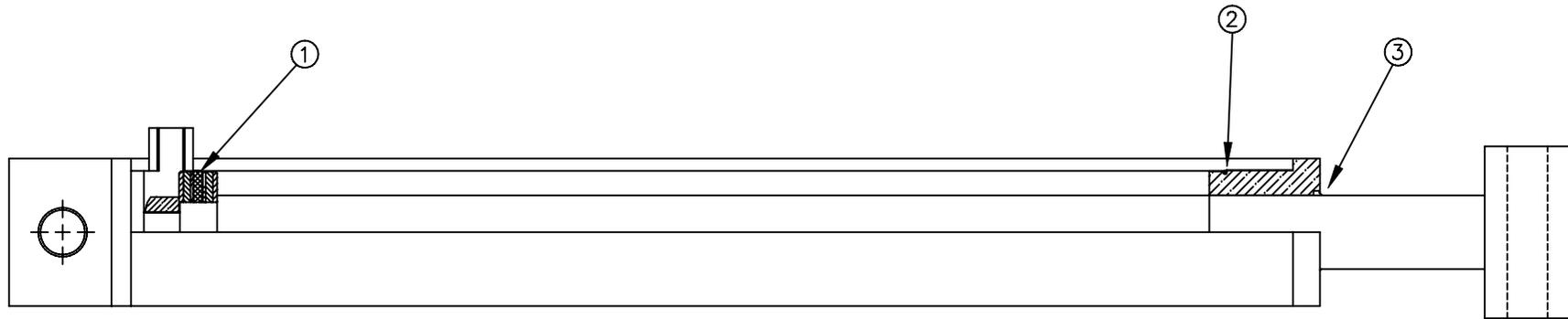
PARTS LIST	
ITEM	DESCRIPTION
1	HYDRAULIC RAM
2	PUMP
3	RELEASE VALVE
4	PUMP HANDLE
5	HYDRAULIC CONTROL VALVE
6	PUMP TO VALVE HOSE
7	NEARSIDE RAM HOSE
8	OFFSIDE RAM HOSE
9	TEST POINT



							DATE	14/11/2008	TITLE	HYDRAULIC SYSTEM		
							SCALE	N.T.S.				
REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	NAME	S.LAWSON	DRG No.	CDT 5.15 - 7

TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARE PARTS

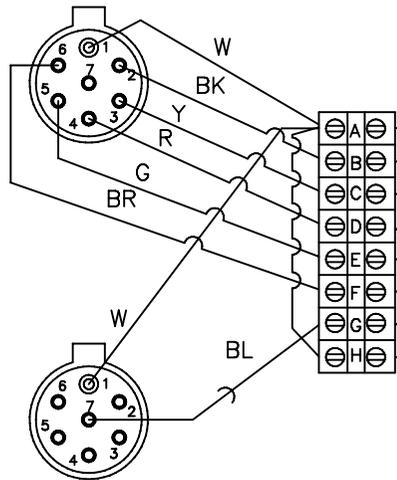
PARTS LIST	
ITEM	DESCRIPTION
1	PISTON SEAL
2	GLAND SEAL
3	WIPER SEAL



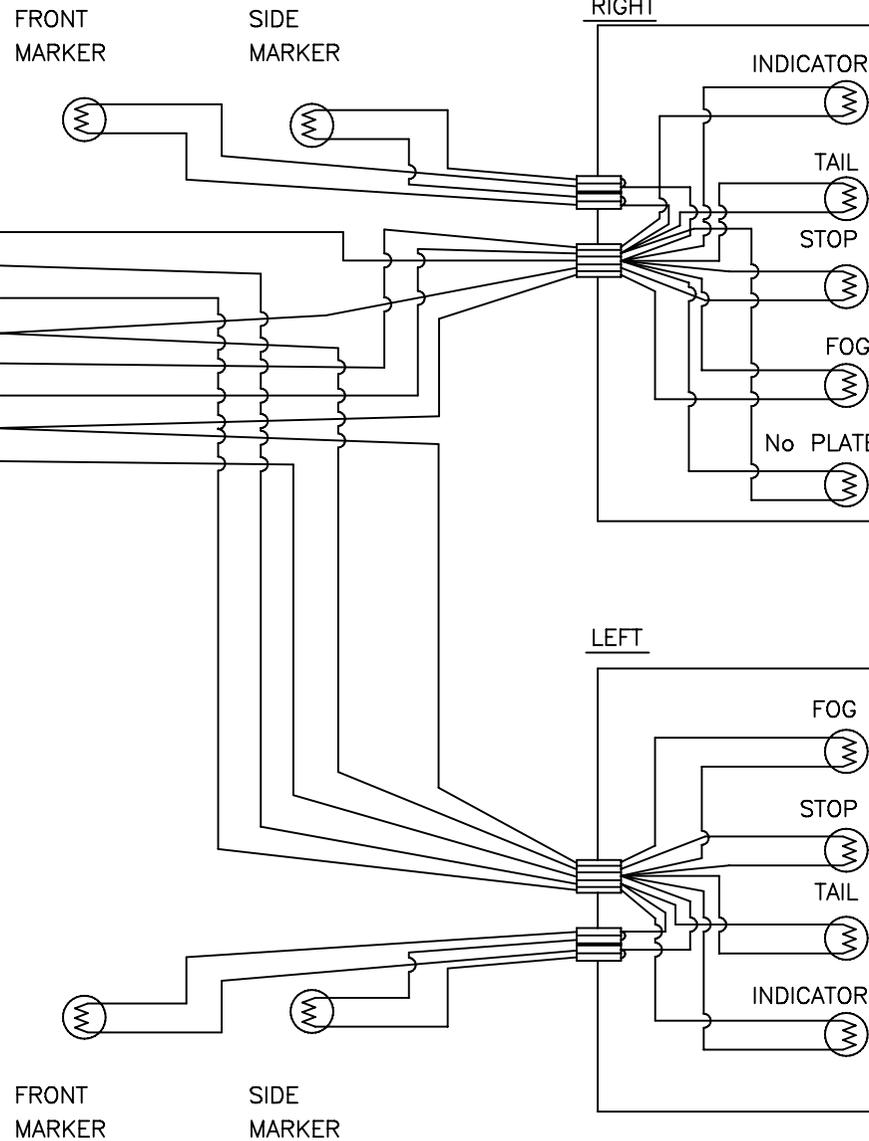
								DATE	14/11/2008	TITLE	HYDRAULIC RAM DETAIL
								SCALE	1=3		
REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	NAME	S.LAWSON	DRG No. CDT 5.15 - 8

TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARES

24N (ISO 1185)



24S (ISO 3731)



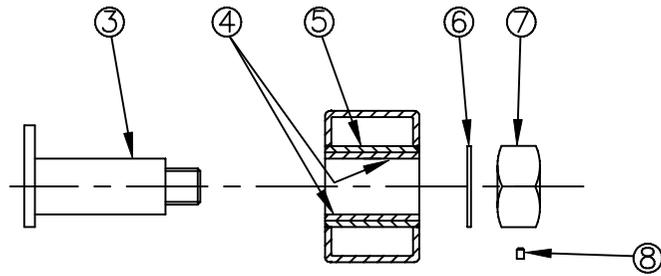
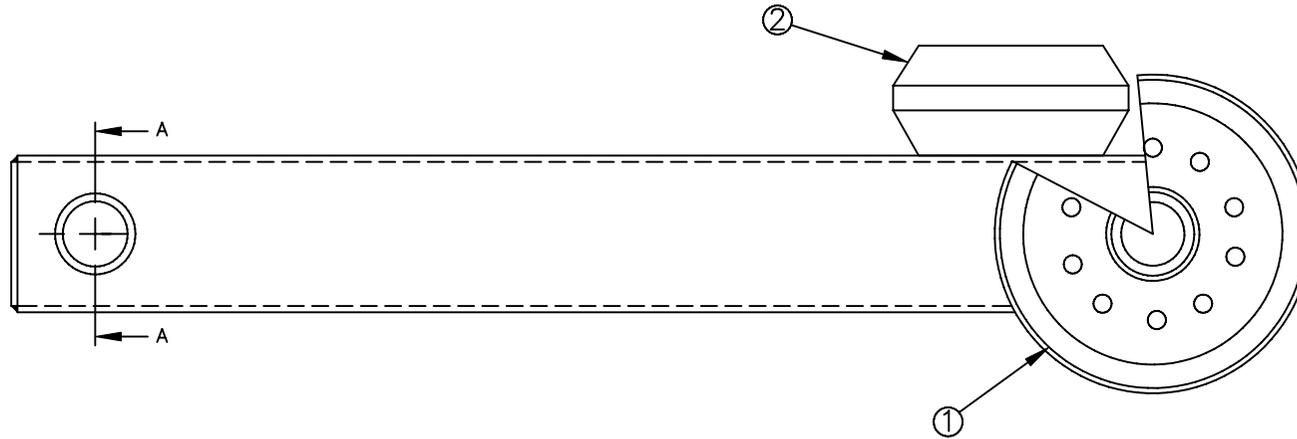
PLUG WIRING CODE

PIN	CIRCUIT	COLOUR
24N PLUG (BLACK) ISO 1185		
1	COMMON RETURN	WHITE(W)
2	LEFT TAIL,END OUTLINE & / OR No PLATE LIGHT	BLACK(BK)
3	LEFT INDICATOR	YELLOW(Y)
4	STOP LIGHTS	RED(R)
5	RIGHT INDICATOR	GREEN(G)
6	RIGHT TAIL,END OUTLINE & / OR No PLATE LIGHT	BROWN(BR)
7	NO ALLOCATION	
24S PLUG (WHITE) ISO 3731		
1	COMMON RETURN	WHITE(W)
2	NO ALLOCATION	BLACK(BK)
3	REVERSING LIGHT	YELLOW(Y)
4	POWER SUPPLY	RED(R)
5	SENSING DEVICE WITH COMMON RETURN	GREEN(G)
6	ADDITIONAL POWER SUPPLY	BROWN(BR)
7	REAR FOG LIGHT	BLUE(BL)

REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	NAME	S.LAWSON	DRG No.	CDT 5.15 - 9
									DATE	14/11/2008	TITLE	ELECTRICAL SYSTEM
									SCALE	N.T.S.		

TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARES

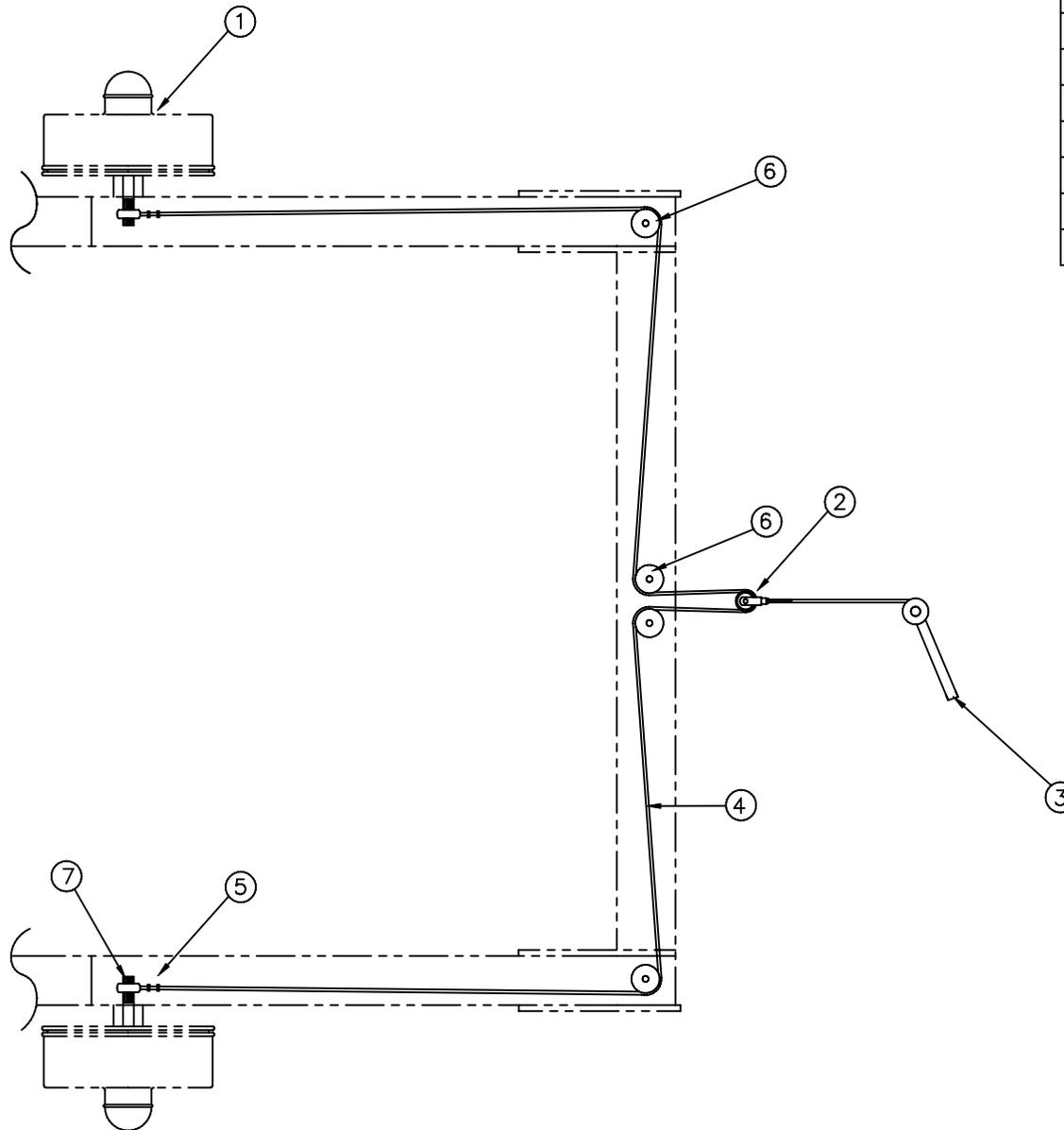
PARTS LIST	
ITEM	DESCRIPTION
1	HUB & BRAKE ASSY
2	RUBBER SUSPENSION
3	PIVOT PIN
4	PIVOT BUSH (OILITE)
5	PIVOT BOSS
6	WASHER
7	NUT
8	GRUB SCREW



SECTION 'A'-'A'

								DATE	14/11/2008	TITLE	WHEEL ARM DETAIL
								SCALE	N.T.S.		
REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	NAME	S.LAWSON	DRG No.	CDT 5.15 - 10

TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARES

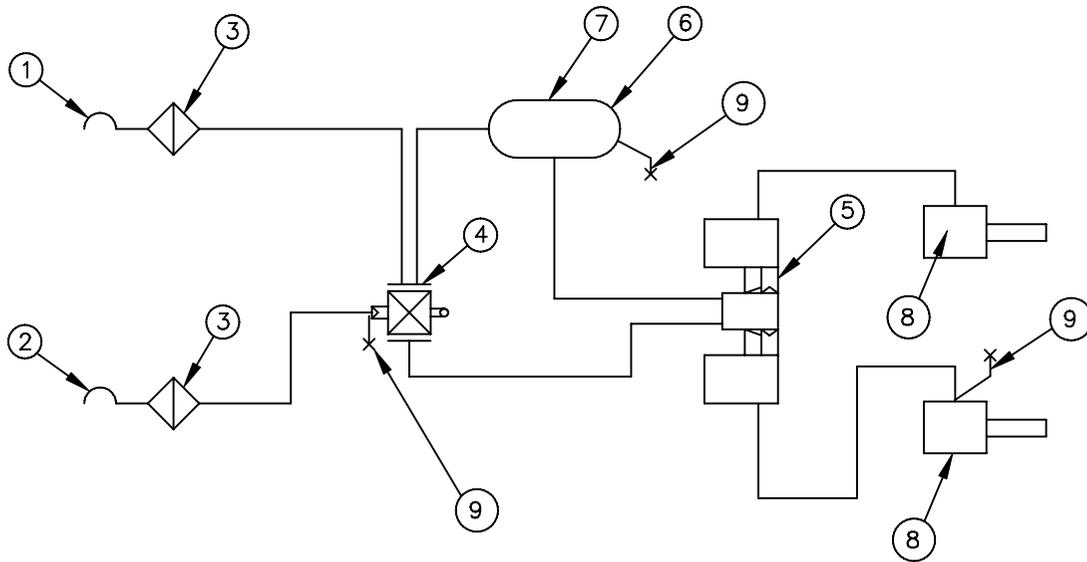


PARTS LIST	
ITEM	DESCRIPTION
1	STUB AXLE
2	BALANCE PULLEY AND CLEVIS
3	HANDBRAKE
4	WIRE ROPE
5	THIMBLE & GRIPS
6	BRAKE PULLEY
7	BRAKE CAM LEVER

								DATE	14/11/2008	TITLE	PARK BRAKE LAYOUT
								SCALE	N.T.S.		
REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	NAME	S.LAWSON	DRG No. CDT 5.15 - 11

TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARES

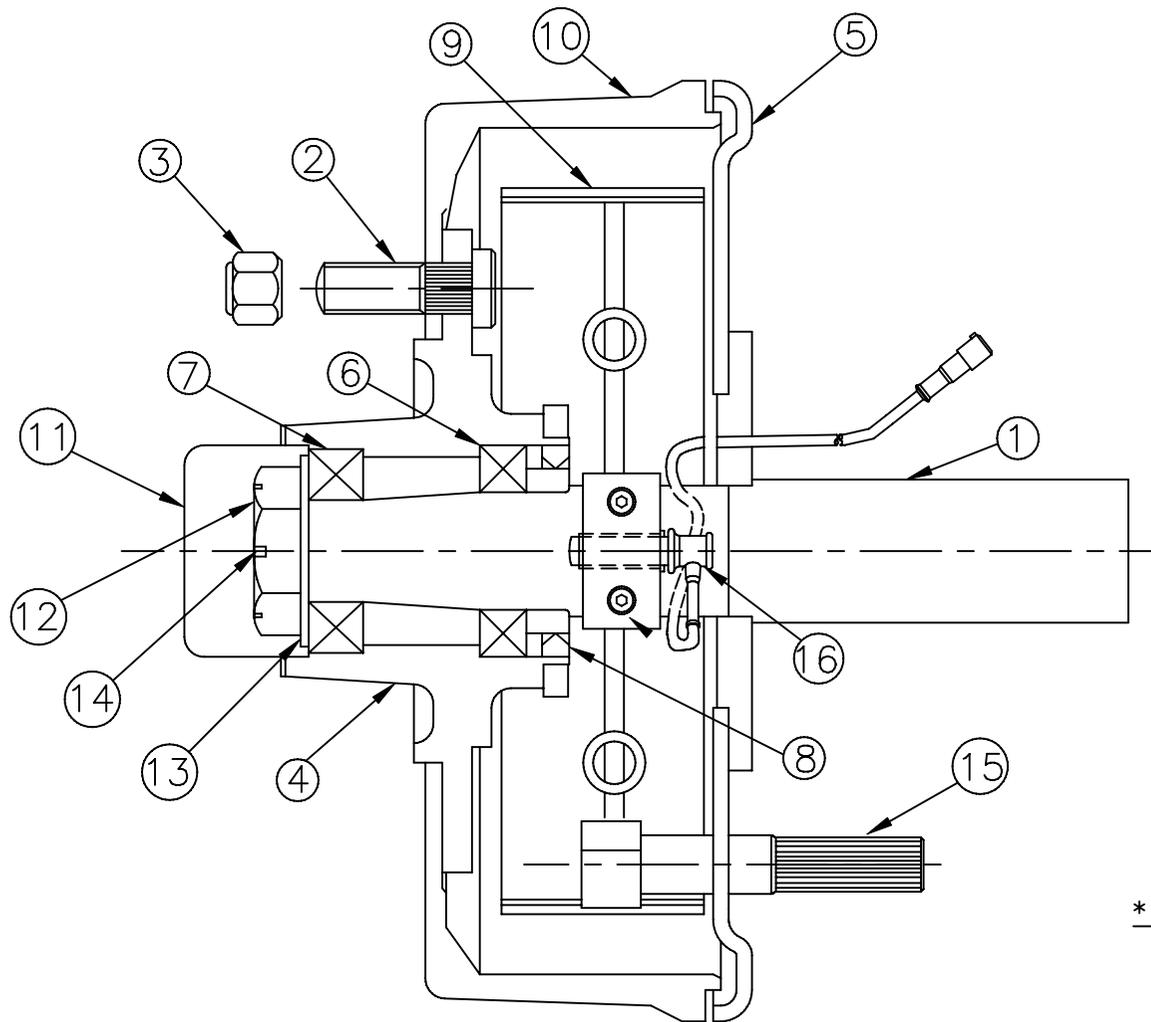
PART'S LIST



ITEM	DESCRIPTION
1	COUPLING (EMERGENCY)
2	COUPLING (SERVICE)
3	AIR FILTER
4	LSV/RE VALVE
5	ABS ECU
6	AIR RESERVOIR
7	DRAIN VALVE
8	AIR ACTUATORS
9	TEST POINT

								DATE	14/11/2008	TITLE	AIR BRAKE SYSTEM C/W ABS
								SCALE	N.T.S.		
REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	NAME	S.LAWSON	DRG No. CDT 5.15 - 12

TRAILER VIN NUMBER MUST BE QUOTED WHEN ORDERING SPARES



PART'S LIST

ITEM	DESCRIPTION
1	STUB AXLE
2	WHEEL STUD
3	WHEEL NUT
4	HUB
5	BACK PLATE
6	INNER BEARING
7	OUTER BEARING
8	OIL SEAL
9	BRAKE SHOES
10	BRAKE DRUM
11	HUB CAP
12	AXLE NUT
13	AXLE WASHER
14	SPLIT PIN
15	CAM SHAFT
16	A.B.S. SENSOR UNIT *

* TO SET SENSOR FIRMLY PUSH HEAD OF SENSOR UNIT TO ENGAGE SENSOR NOSE AGAINST POLE WHEEL DO NOT USE POINTED INSTRUMENT

								DATE	14/11/2008	TITLE	HUB DETAIL C/W ASB SENSOR
								SCALE	N.T.S.		
REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	REF	ISSUE LEVEL	DATE	NAME	S.LAWSON	DRG No. CDT 5.15 - 13