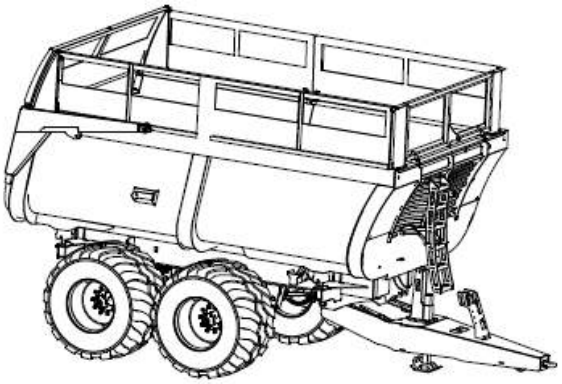
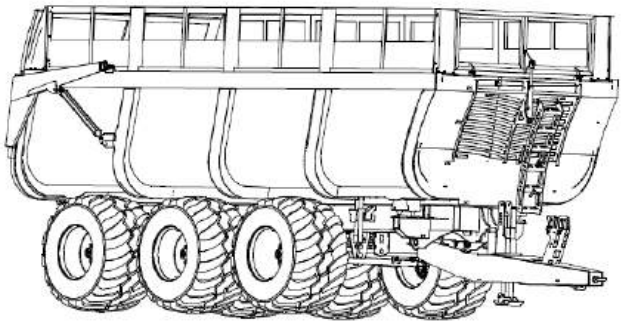
DB30, DB40, DB50, DB70
OWNERS MANUAL





CONTENTS

INTRODUCTION

Congratulations on the purchase of your new PENTA DUMP BOX. This equipment has been designed and manufactured to exceed the needs of you the farmer. With proper operation and preventative maintenance it will last for years.

The purpose of this manual is to assist you in operating and maintaining your DUMP BOX. Keep this manual readily available for reference and be sure to pass it on to new operators or owners. Contact Penta TMR Inc. or any of our dealers if you need assistance or additional information.

GENERAL INFORMATION

Operator orientation: The directions left, right, front and rear as mentioned throughout the manual are seen from the tractor driver's seat, facing forward.

Some items in this manual may differ slightly from your dump box. Penta reserves the right to make changes to the dump box and this manual without notice
If in any doubt regarding the aspect of the design or operation contact Penta or an authorized dealer.

CUSTOMER REFERENCE INFORMATION

Penta Model Number: _____

Penta Serial Number: _____

Date Purchased: _____

Dealer Name: _____

Dealer Tel #._____

Penta TMR Incorporated. Tel: 888-844-7788 Fax: 519-882-3359

IDENTIFICATION PLATE

The Serial number is required with all orders for spare parts and technical enquires. This is necessary for correct delivery and service.

The Serial number is attached to the front left side of the main frame

WARRANTY INFORMATION

PENTA warrants against defects in construction or materials for a period of ONE year. We reserve the right to inspect and decide weather material or construction was faulty or weather abuse or accident voids our guarantee.
Warranty service must be preformed by a dealer or service center authorized by Penta.

The warranty registration form *(fig. 1.0)* must be filled out by the dealer and signed by both the dealer and customer at time of delivery. Reference PENTA's warranty Guidelines & Stipulations on our website www.pentatmr.com or
Email: warranty@pentatmr.com

Penta TMR Incorporated

DUMP TRAILER WARRANTY REGISTRATION AND INSPECTION REPORT

This form must be filled out by the dealer and signed by both the dealer and customer at time of delivery.

Customer: Dealer Name:
Address: Address:
City/State/Zip: City/State/Zip:
Tel #: Tel #:
Cell #: Cell #:
Machine Model #: Machine Model #:
Delivery Date:

Dealer Inspection Report

- ☐ Hoses / lines / fitting not leaking
- ☐ Gates opens/closes correctly
- ☐ Wheel bolts tightened
- ☐ All safety decals installed
- ☐ Tire pressures checked
- ☐ Lights operational
- ☐ Proper hydraulic system function
- ☐ Comprehension of steering system

Review Operating/Safety Instructions
I have thoroughly instructed the buyer on the above described equipment with regard to the Operators Manual content, equipment care, adjustments, and safe operation and applicable warranty policy.

Date: Dealer Rep's Signature

The above equipment and Operator's Manual have been received by me and I have been thoroughly instructed as to the care, adjustments, safe operation and applicable warranty policy.

Date: Owner's Signature:

White	Yellow	Pink
PENTA	DEALER	CUSTOMER

Penta TMR Incorporated, P.O. Box 1630, 4480 Pregeau Drive, Putnella, Ontario K0N 1R0

Fig. 1.0

TECHNICAL DATA

	DB30	DB40	DB50	DB70
Axles	Tandem	Tandem	Tri-Axle Tandem Axle (Optional)	Quad-Axle - Standard Tri-Axle - Optional
Steering Axles	N/A	N/A	2 Steering , 1 Fixed (Tri-Axle)	2 Steering, 2 fixed (Quad-Axle)
Extension Height	32 inch (81.3cm)	32 inch (81.3cm)	32 inch (81.3cm)	32 inch (81.3cm)
Front Tilt Extension	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Tailgate	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Tailgate Chute	Manual Hydraulic (optional)	Manual Hydraulic (optional)	Manual Hydraulic (optional)	Manual Hydraulic (optional)
Tires	BKT FL630 800/45R26.5 Michelin 800/45R26.5 (optional)	BKT FL630 800/45R26.5 Michelin 800/45R26.5 (optional)	BKT FL630 800/45R26.5 Michelin 800/45R26.5 (optional)	BKT FL630 800/45R26.5 Michelin 800/45R26.5 (optional)
Total Length	292 inch (742 cm)	336 inch (853 cm)	405 inch (1029 cm)	468 inch (1189 cm)
Total Height (With Tires and 32 inch Extension)	148 inch (376 cm)	148 inch (376 cm)	149 inch (376 cm)	150 inch (376 cm)
Outside Width (With Tires)	126 inch (322.5 cm)	127 inch (322.5 cm)	128 inch (322.5 cm)	129 inch (322.5 cm)
Interior Dimensions (LxWxH)	17 ft x 10.5 ft x 7.3 ft (5.18 m x 3.20 m x 2.23 m)	21 ft x 10.5 ft x 7.3 ft (6.40 m x 3.20 m x 2.23 m)	26.6 ft x 10.5 ft x 7.3 ft (8.11 m x 3.20m x 2.23m)	32.5 ft x 11.4 ft x 7.3 ft (9.91 m x 3.47 m x 2.23m)
Tandem Axle Weight Capacity	40,000 lbs (18,140kg)	40,000 lbs (18,140 kg)	40,000 lbs (18,140 kg)	N/A
Tri-Axle Weight Capacity	N/A	N/A	*60,000 lbs (27,200 kg)	60,000 lbs (27,200 kg)
Quad-Axle Weight Capacity	N/A	N/A	N/A	80,000 lbs (36,285 kg)
Volume	1050 cu.ft (30m³)	1400 cu.ft (40m³)	1850 cu.ft (52m³)	2475 cu.ft (70m³)
Hoist Oil Volume	5.55 US Gal (21 litres)	8.5 US Gal (32 litres)	12.698 US Gal (48 litres)	**26.4 US GAL (100 litres)
Recommended Tractor H.P.	140	160	190	240

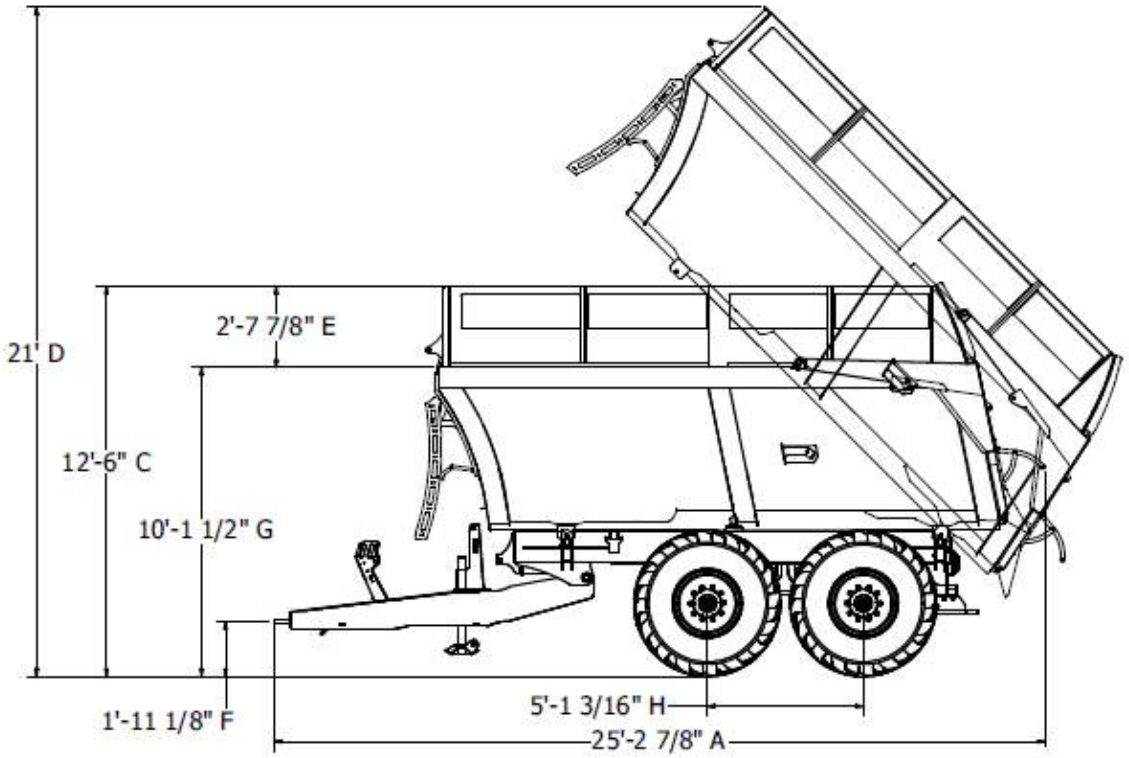
* Based on Hoist Cylinder Rating
** DB70 is equipped with Oil reservoir and Pump

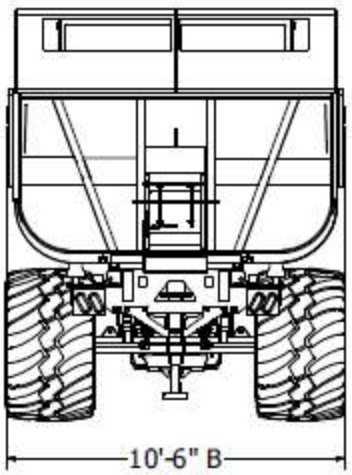
TECHNICAL DATA

DB30

DB30 Dimensions		
Description	Letter	Distance
Length	A	25'-2 7/8"
Width	B	10'-6"
Hight with Extensions	C	12'-6"
Tipped Hight	D	21'
Extension Hight	E	2'-7 7/8"
Hitch Hight	F	1'-11 1/8"
Hight to top of Box	G	10'-1 1/2"
Wheel Base	H	5'-1 3/16"

CYLINDERS		
Title	Stroke	Part Number
DB30 Main Cylinder	7'	774020
Front Tongue Adjustment	8"	775520
Jack	20"	775521
Axle Stabilizer	6"	775523
Tailgate	30"	775524
Grain Door	14"	775525
Head Gate	8"	775526



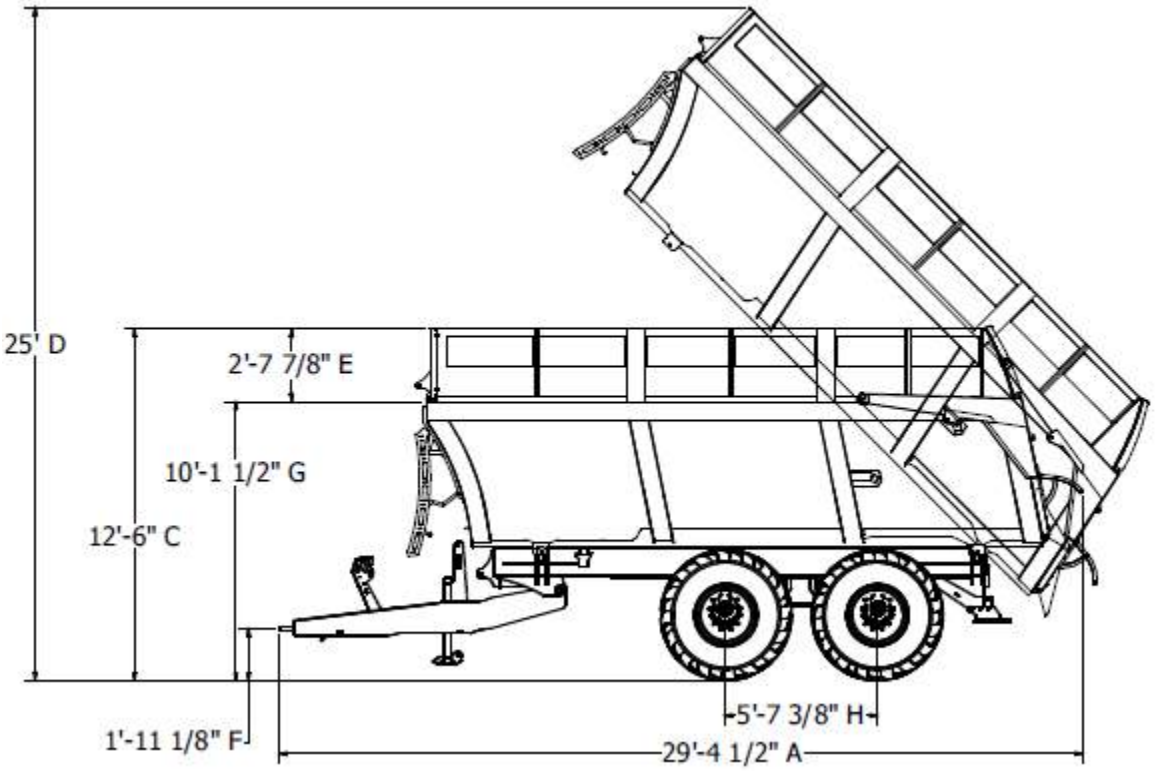


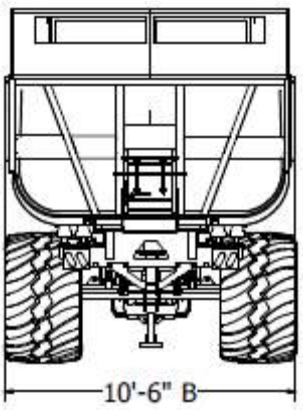
TECHNICAL DATA

DB40

DB40 Dimensions		
Description	Letter	Distance
Length	A	29'-4 1/2"
Width	B	10'-6"
Hight with Extensions	C	12'-6"
Tipped Hight	D	25'
Extension Hight	E	2'-7 7/8"
Hitch Hight	F	1'-11 1/8
Hight to top of Box	G	10'-1 1/2"
Wheel Base	H	5'-7 3/8"

CYLINDERS		
Title	Stroke	Part Number
DB 40 Main Cylinder	10'	774616
Front Tongue Adjustment	8"	775520
Jack	20"	775521
Axle Stabilizer	6"	775523
Tailgate	30"	775524
Grain Door	14"	775525
Head Gate	8"	775526



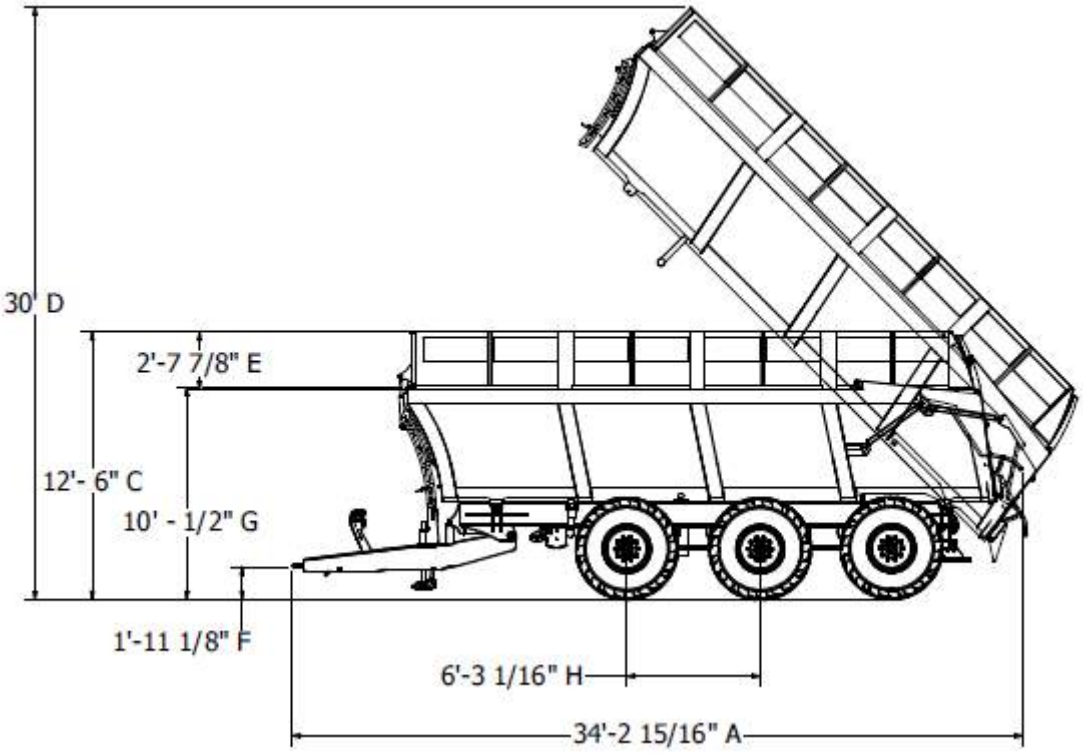


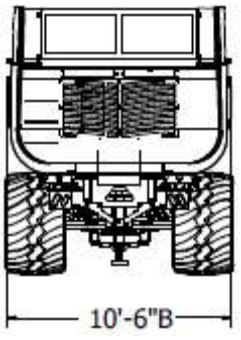
TECHNICAL DATA

DB50

DB50 Dimensions		
Description	Letter	Distance
Length	A	34'-2 15/16"
Width	B	10'- 6"
Hight with Extensions	C	12'-6"
Tipped Hight	D	30'
Extension Hight	E	2'-7 7/8"
Hitch Hight	F	1'-11 1/8"
Hight to top of Box	G	10'-1 1/2"
Wheel Base	H	6'- 3 1/16"

CYLINDERS		
Title	Stroke	Part Number
DB50 Main Cylinder	14'	774021
Front Tongue Adjustment	8"	775520
Jack	20"	775521
Axle Stabilizer	6"	775523
Tailgate	30"	775524
Grain Door	14"	775525
Head Gate	8"	775526



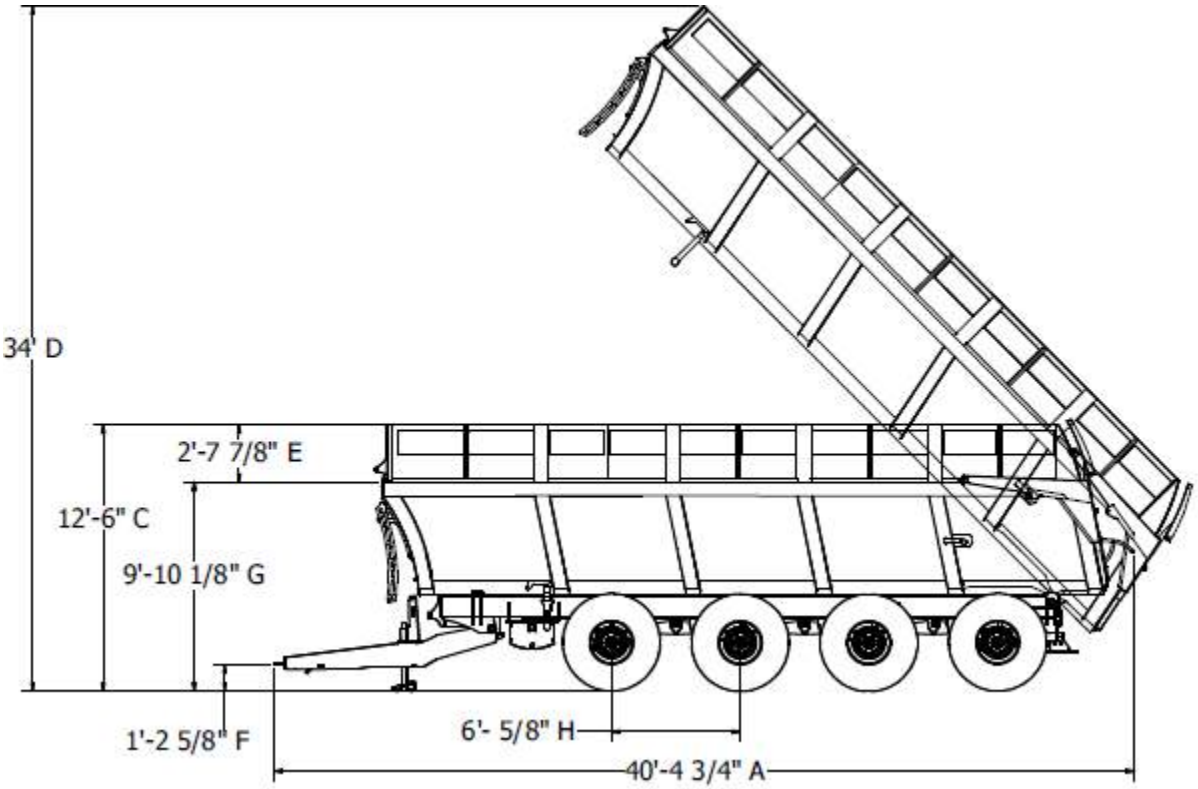


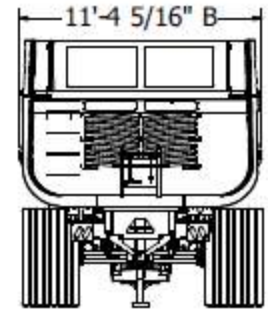
TECHNICAL DATA

DB70

DB70 Dimensions		
Description	Letter	Distance
Length	A	40'-4 3/4"
Width	B	11'-4 5/16"
Hight with Extensions	C	12'-6"
Tipped Hight	D	34'
Extension Hight	E	2'-7 7/8"
Hitch Hight	F	1'-2 5/8
Hight to top of Box	G	9'-10 1/8"
Wheel Base	H	6'- 5/8"

CYLINDERS		
Title	Stroke	Part Number
DB70 Main Cylinder	14'	774022
Front Tongue Adjustment	8"	775520
Jack	20"	775521
Axle Stabilizer	6"	775523
Tailgate	30"	775524
Grain Door	14"	775525
Head Gate	8"	775526





SAFETY

For your safety and to develop better understanding of your implement, thoroughly read the operator's manual before use.

In this manual the terms **CAUTION, WARNING, DANGER** are used to identify safety messages. When you see this ⚠ , be alert to the possibility of damage and hazards that can result in personal injury or death.

DANGER indicates an extremely hazardous situation or action that will result in serious injury or death.

WARNING indicates a hazardous situation or action that could result in serious injury or death.

CAUTION indicates an unsafe situation or action that may result in personal injury

IMPORTANT indicates special instructions or procedures which, if not observed could result in damage to equipment.

NOTE indicates helpful information

YOU are responsible for the *SAFE* operation and maintenance of your implement. *YOU* must ensure that anyone who will be operating, maintaining, servicing, or working around the implement is familiar with the operating, safety and maintenance procedures and related safety information contained in this manual.
The most important safety device on the equipment is a *YOU* the *SAFE* operator.

Do not modify the equipment in any way. Unauthorized modifications may impair the function and/or safety and could affect the life and warranty of the equipment.
Think SAFETY! Work SAFELY!

PRECAUTIONS

Place all controls in neutral, stop the engine, set park brake, remove ignition key, and wait for all moving parts to come to a complete stop before servicing, repairing, or unplugging machinery.

Before applying pressure to the hydraulic system, make sure all components are tight and that all lines, hoses, and couplings are in good condition.

Do not operate when guards are missing or broken.

Clear the area of all bystanders, especially children, before starting.

Do not allow children to play on or around the machine.

Do not operate with leaks in the hydraulic system or lubrication system.

Relieve pressure from hydraulic circuit before servicing or disconnecting from tractor.

TRANSPORT

Clean reflectors, slow moving vehicle signs, and lights before transporting.

Do not allow riders, on or in the implement.

Stay away from overhead power lines when loading. Electrocution can occur without contact.

Use hazard flashers on tractor when transporting on roads, and follow all local laws.

Attach securely to the tractor using a retainer on the drawbar, and a safety chain.

Make sure you are in compliance with all local regulations regarding equipment on public roadways and highways.

Make sure SMV (Slow Moving Vehicle) emblem and all the lights and reflectors required by law are in place, clean, and can be seen clearly by overtaking and oncoming traffic.

Reduce speed on rough roads and surfaces.

Add extra lights or use pilot vehicle when transporting during times of limited visibility.

DANGER Never overload the dump box. Overloading the box is dangerous and can cause extensive damage

CAUTION Reduce speed when turning or travelling across uneven ground

WARNING Avoid extending or transporting implement on side hills or steep inclines

Use extra caution when transporting on roadways
-Match speed to operating conditions.
-Stay away from ditches and riverbanks.
-Use caution and pay attention.
-Use front weights to promote stability.
-Start forward motion slowly and change speed gradually.
-Drive around ditches.
-Use caution when braking down a grade.

It is recommended and good practice to:
-Lock the steering axles in a straight forward and reverse motion.
-Unlock the steering while turning

**** It is the duty of the operator to ensure that the dump box is maintained and operated in accordance with all local and national regulations

TIRES

Failure to follow proper procedures when mounting a tire on a wheel or rim can cause an explosion which may result in serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and are qualified to do the job.

Have a qualified tire dealer or repair service perform required maintenance.

MODEL OPTIONS

BKT: 800/45R26.5 BKT FL-630 PLUS TL
MICHELIN: 800/45 R26.5 174D CARGOXBIB

REDUCE COMPACTION

Over Inflated tires cause excessive soil compaction with the formation of ruts (in damp conditions).

Make	Size	Pattern	Overall Dia	Rolling Circumference	Load Capacity					Pressure
					65 km/h (40 mph)	50 km/h (30 mph)	40 km/h (25 mph)	25 km/h (15 mph)	10 km/h (6 mph)	
BKT	800 / 45 R 26.5	FL 630 Plus	1393mm	4277mm (168.4 inch)	2815 kg (6206 lbs)	3410 kg (7518 lbs)	3780 kg (8333 lbs)	4450 kg (9810 lbs)	5070 kg (11177 lbs)	1.2bar (17 psi)
					3400 kg (7496 lbs)	4120 kg (9083 lbs)	4570 kg (10075 lbs)	5400 kg (11905 lbs)	6140 kg (13536 lbs)	1.6 bar (23 psi)
					3955 kg (87196 lbs)	4785 kg (10549 lbs)	5310 kg (11706 lbs)	6250 kg (13778 lbs)	7120 kg (15697 lbs)	2.0 bar (29 psi)
					4540 kg (10009 lbs)	5500 kg (12125 lbs)	6080 kg (13404 lbs)	7160 kg (15785 lbs)	8160kg (17990 lbs)	2.4 bar (35 psi)
					5050 kg (11133 lbs)	6100 kg (13448 lbs)	6785 kg (14958 lbs)	7985 kg (17604 lbs)	9085 kg (20029 lbs)	2.8 bar (41 psi)
					5630kg (12412 lbs)	6815 kg (15024 lbs)	7560 kg (16667 lbs)	8900 kg (19621 lbs)	10135 kg (22344 lbs)	3.2 bar (46 psi)
					6165 kg (13591 lbs)	7465 kg (16457 lbs)	8280 kg (18254 lbs)	9745 kg (21484 lbs)	11100 kg (24471 lbs)	3.6 bar (52 psi)
					6700 kg (14770 lbs)	8110 kg (17880 lbs)	9000 kg (19841 lbs)	10590 kg (23347 lbs)	12060 kg (26588 lbs)	4.0 bar (58 psi)

Make	Size	Pattern	Overall Dia	Rolling Circumference	Load Capacity					Pressure
					65 km/h (40 mph)	50 km/h (30 mph)	40 km/h (25 mph)	25 km/h (15 mph)	10 km/h (6 mph)	
MICHELIN	800 / 45 R 26.5	174D TL Cargoxbib	1395mm	4097mm (161.3 inch)	3010 kg (6640 lbs)	3640 kg (8020 lbs)	4090 kg (9020 lbs)	4755 kg (10480 lbs)	5630 kg (12410 lbs)	1.2bar (17 psi)
					3670 kg (8090 lbs)	4440 kg (9790 lbs)	4990 kg (11,000 lbs)	5800 kg (12790 lbs)	6755 kg (14890 lbs)	1.6 bar (23 psi)
					4330 kg (9550 lbs)	5240 kg (11550 lbs)	5890 kg (12,990 lbs)	6845 kg (15090 lbs)	7875 kg (17360 lbs)	2.0 bar (29 psi)
					4990 kg (11000 lbs)	6040 kg (13320 lbs)	6790 kg (14970 lbs)	7890 kg (17390 lbs)	9000 kg (19840 lbs)	2.4 bar (35 psi)
					5420 kg (11950 lbs)	6560 kg (14460 lbs)	7370 kg (16250 lbs)	8565 kg (18880 lbs)	9765 kg (21530 lbs)]	2.8 bar (41 psi)
					5845 kg (12890 lbs)	7075 kg (15600 lbs)	7650 kg (17530 lbs)	9240 kg (20370 lbs)	10530 kg (23210 lbs)	3.2 bar (46 psi)
					6270 kg (13820 lbs)	7590 kg (16730 lbs)	8530 kg (18810 lbs)	9915 kg (21860 lbs)	11295 kg (24900 lbs)	3.6 bar (52 psi)
					6700 kg (14770 lbs)	8110 kg (17880 lbs)	9110 kg (20080 lbs)	10590 kg (23350 lbs)	12060 kg (26590 lbs)	4.0 bar (58 psi)

THE SERVICE LIFE OF YOUR TIRES

The wrong pressure may have a serious effect on the life of your agricultural tires:

OVERINFLATION causes excessive spin in the fields. On hard, stony soil, it causes premature wear. On the road, over inflation causes fast, irregular wear on the lugs – the footprint is too small.

UNDERINFLATION causes irreversible damage to tire casings: risk of failure. It also leads to excessive wear on roads: too much rolling resistance.

Pre- Operation Check

- [ ] Read and understand manual carefully
- [ ] Check Tires and lugs….Torque on the wheel lugs, Tire pressure (See pg.11)
- [ ] Check fasteners
- [ ] Check Pivot points and pins
- [ ] Check Hoses and hydraulic cylinders, fittings and couplers
- [ ] Check Grease points and adequate amount of grease is applied
- [ ] Check Connections of the hoses and electrics and insure no pinch points and installed properly
- [ ] Check hitch and draw bar connection insure they are level and that the weight is distributed evenly
- [ ] Check lights and slow-moving vehicle are clear of debris

Tractor Requirements

DB30 = 140Hp

DB40 = 160Hp

DB50 = 190Hp

DB70 = 240Hp

Connection

Coupling to tow vehicle – Hitch

Reverse the towing vehicle until hitch is lined up with the eye
Raise the tow hitch and lock into raised position

WARNING : Ensure all personnel are clear of danger around the dump box
WARNING : Make sure the trailer is properly secure and attached before moving
WARNING : Never park the dump box with the tub in the raised position
WARNING : Park dump box on firm and level ground

Coupling Hydraulic Hoses
It is import to keep the hose connections clean.
Connect the hydraulic service line to the connection on the tractor

Uncoupling the tow vehicle - Hitch
Ensure the tipping body is lowered fully
Ensure the drawbar is in the tow position
Lower the trailer onto the drawbar
Decouple all hoses and connections
When disconnected pace in holder.

Steering Axle Connections
Some models are equipped with steering axles, for easier turning and maneuvering.
A dual hydraulic connection from the tractor is used for this.
When traveling forward the spool valve should be moved to retract cylinders this allows the steering axle to follow the lead axle.

WARNING : When traveling in the reverse direction the spool valve should be moved to the extend the cylinders. The trailer wheels will then stay in line and locked.

Electrical connection
Ensure Prongs are clean
Walk around and check that lights are working properly

Connection

Adjustment before towing the trailer:

Adjust the drawbar and/or the hitch of the towing vehicle so that when towing the trailer body is slightly raised at the front.

Hitching the trailer so that the chassis is parallel to the road surface is acceptable, however this may cause additional wear to the trailer brakes and those of the Towing vehicle.

Hitching too low will cause unnecessary wear to the suspension and brake components of the front axle, and reduce the braking efficiency. It can also cause additional loading to be placed on the Towing vehicle.

OPERATION

Tail Gate
Rear tail gate is operated hydraulically and adjusted from the tractor.

Hitch
Hitch is operated hydraulically (see connection)

LOADING
The BOX must not be loaded more then the capacity.
ALWAYS LOAD BY WEIGHT NOT VOLUME
Common weights are as follows:

Material	Kg/M3	lb./ft3	Material	Kg/M3	lb./ft3	Material	Kg/M3	lb./ft3
Alfalfa	256	15.98	Granite, solid	2691	167.99	Silage, fresh pasture	590	36.83
Apples	641	40.02	Granite, broken	1650	103.01	Silage, maize	690	43.08
Ashes - wet	730-890	45.57-55.56	Grain - Maize	760	47.45	Slag, solid	2114	131.97
Ashes - dry	570-650	35.58-40.57	Grain - Barley	600	37.46	Slag, broken	1762	110.00
Asphalt, crushed	721	45.01	Grain - Millet	760-800	47.44-49.94	Slag, cushed 10mm	1185	73.98
Bark, wood refuse	240	14.98	Grain- Wheat	760-800	47.44-49.94	Slag, furn, granulated	961	59.99
Barley	609	38.02	Gravel, loose, dry	1522	95.02	Slate, solid	2691	167.99
Beans, soy	721	45.01	Gravel, with sand, natural	1922	119.99	Slate, broken	1290-1450	80.53-90.52
Beets	721	45.01	Gravel, dry 10 to 50mm	1682	105.00	Slate, pulverized	1362	85.03
Bran	256	15.98	Gravel, wet 10 to 50mm	2002	124.98	Soy beans, whole	753	47.01
Brewers grain	432	26.97	Grypsum, solid	2787	173.99	Stone, crushed	1602	100.01
Brick, common red	1922	119.99	Gypsum, broken	1290-1600	80.53-99.88	Stone, common	2515	157.01
Brick, fire clay	2403	150.01	Gypsum, crushed	1602	100.01	Sugarbeet pulp, dry	208	12.99
Brick, silica	2050	127.98	Lime, quick, lump	849	53.00	Sugarbeet pupl, wet	561	35.02
Buckwheat	657	41.02	Lime, quick, fine	1201	74.98	Sugarcane	272	16.98
Chalk, solid	2499	156.01	Limestone, broken	1554	97.01	Turf	400	24.97
Chalk, lumpy	1442	90.02	Limstone, pulverized	1394	87.02	Wheat	769	48.01
Chalk, fine	1121	69.98	Linseed, whole	753	47.01	Wheat, cracked	673	42.01
Cinders, furnace	913	57.00	Malt	336	20.98			
Cinders, coal, ash	641	40.02	Manure	400	24.97			
Clay, dry excavated	1089	67.98	Mud, packed	1906	118.99			
Clay, wet excavated	1826	113.99	Mud, fluid	1730	108.00			
Clay, dry lump	1073	66.99	Oats	432	26.97			
Clay, fire	1362	85.03	Oats, rolled	304	18.98			
Clay, wet lump	1602	100.01	Peat, dry	400	24.97			
Clay, compacted	1746	109.00	Peat, moist	801	50.00			
Clover seed	769	48.01	Peat, wet	1121	69.98			
Concrete, Asphalt	2243	140.03	Potash	1281	79.97			
Concrete, Gravel	2403	150.01	Potatoes, white	769	48.01			
Corn, on the cob	721	45.01	Rice, hulled	753	47.01			
Corn, chelled	721	45.01	Rice, rough	577	36.02			
Earth, loam, dry, excavated	1249	77.97		705	44.01			
Earth, moist, excavated	1442	90.02	Rye	1922	119.99			
Earth, wet, dense	1602	100.01	Sand, wet	2082	129.98			
Earth, dense	2002	124.98	Sand, wet, packed	1602	100.01			
Earth, soft loose mud	1730	108.00	Sand, dry	1442	90.02			
Earth, packed	1522	95.02	Sand, loose	1682	105.00			
Earth, fullers, raw	673	42.01	Sand, rammed	1922	119.99			
Fertilizer, acid phosphate	961	59.99	Sand, water filled	1650	103.01			
Fish, meal	593	37.02	Sand with gravel, dry	2020	126.10			
Flaxseed, whole	721	45.01	Sand with gravel, wet	2323	145.02			
Flint - silica	1390	86.77	Sandstone, broken	1370-1450	85.52-90.52			
Flour, wheat	593	37.02	Sawdust	210	13.11			
Fullers earth - raw or burnt	570-730	35.58-45.56	Sewage, sludge	721	45.01			
Garbage, household rubbish	481	30.03	Shale, solid	2675	166.99			
Glass - broken or cullet	1290-1940	80.53-121.11	Shale, broken	1586	99.01			

OPERATION

Unloading

WARNING : Some models are equipped with steering axles, for easier turning and maneuvering. When traveling in the reverse direction the spool valve should be moved to the extend the cylinders. The trailer wheels will then stay in-line and locked.

Bring the towing machine to a stop.

Always position the towing vehicle and trailer in a straight ahead position wherever possible.

Check for overhead obstructions especially when inside a building and near power lines.

Select the towing vehicles tipping control and raise the trailer body, control the speed to suit the type of material being carried.

Slowly drive forward to ensure the loaded material is fully discharged.

Stop the towing vehicle and fully lower the body and close the tailgate before driving off.

Always lower the trailer body when leaving the machine.

Take care when tipping on gradients

Avoid tipping on unconsolidated ground

Be prepared for a change in stability as the center of mass changes as the load is ejected from the trailer . Slow flowing or sticking loads can apply an upwards force to the drawbar.

Never leave the trailer raised when disconnected from the towing vehicle

OPERATION

Grain Chute & Front Gate

Grain Chute

Front Gate

The grain chute and front gate are operated hydraulically from controls located on the draw bar and the rear chassis. (See hydraulic diagram on page.)

Rear Tow Bar

The rear tow bar is designed for light vehicle transport only.
Do not use when the box is loaded
Do not use tow bar for towing large equipment (i.e. dump trailers etc)

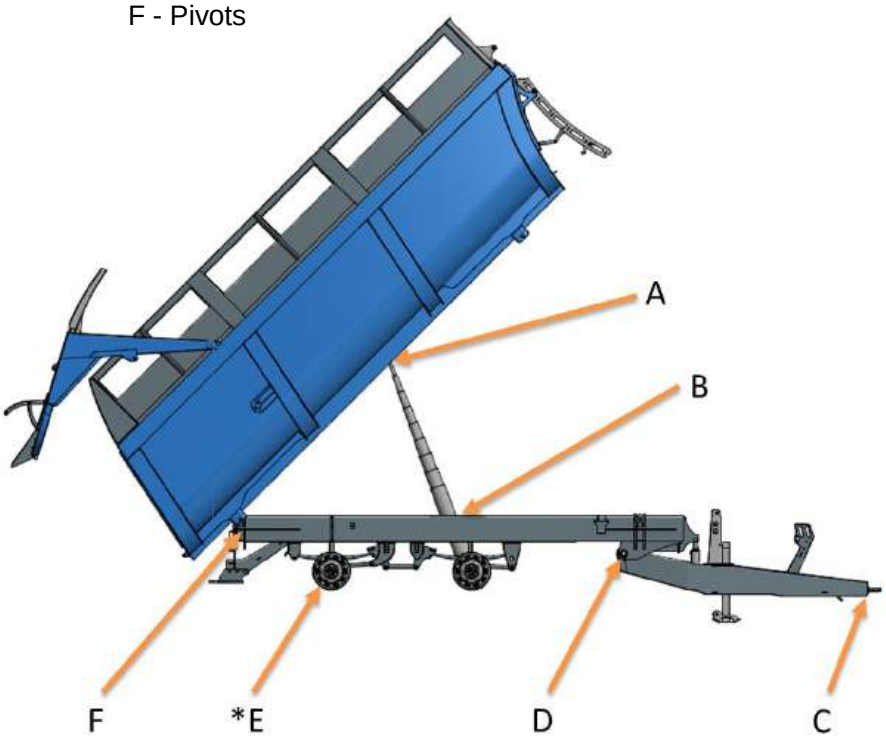
Steering Axles
Controlled Hydraulically
Must be in locked position during higher speeds strait away use,
Must be locked during reverse and unloading
Caution when turning on hills

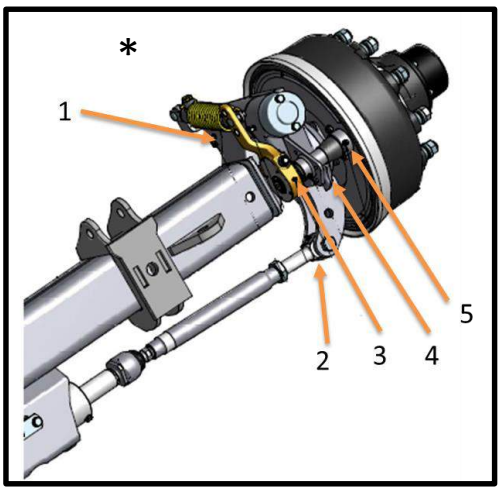
MAINTENANCE

WARNING Pressurized fluid can be extremely dangerous. Always relief hydraulic pressure before preforming maintenance.

Always ensure that the machine has been properly greased

Grease Points: A - Cylinder Ball Joint (1x)
B - Cradle Bushings (Right & Left Side 2x)
C - Front Hitch (1X)
D - Tongue Pivot Point (Right & Left Side 2x)
E - Straight Axle (Right and Left Side 4x)
* - Steering Axle (Right & Left Side 10x) Steering Axle See Figure ___
F - Pivots





Maintenance supports

The supports are designed to be used to keep the body raised if service is required beneath the Tub.
Do not use safety bracket when box is loaded. Only use supports when box is empty.

Warning: A raised tub could suddenly drop and cause serious injury. Always use the supports when working beneath the raised tub.

Installing the supports into the pockets while slowly lowering the tub
Removing the supports raise the tube until it is clear of the pockets. Pivot and pin in storage location.

Warning: Never raise the tub in or around power cables or aerial obstructions

Suspensions & Brakes

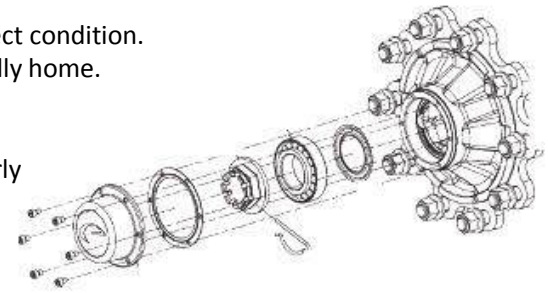
This section contains information that must be followed to ensure the correct functioning of the axles and wheel brakes.

TIGHTENING WHEEL NUTS

Wheel lugs and nuts should be inspected: Before Use, After Refitting, & Every 6 Months
On wheels that have been replaced or refitted, the nuts can loosen after short periods of operation. It is therefore necessary to check the tightness of the nuts after the first loaded run, after refitting and again after approximately 1000 km (620 Miles) Every 6 months or 25,000km (15,500miles).
To tighten the nuts, use a suitable wheel brace, and tighten them progressively and diagonally.
Check the torque using a Torque Wrench, **DO NOT OVERTIGHTEN.**
Torque setting should be 575Nm (424lbs/ft)

CHECKING THE HUBCAPS - Every 6 Months

Missing or damaged hubcaps must be replaced immediately to avoid dirt penetrating into the hub which might result in damage to the bearings.
Check that the hub caps **(1)** are in place and in perfect condition.
For press fit hubcaps, check visually that they are fully home.
For hubcaps attached using screws,
fit a new gasket if necessary when the
hubcap is removed and retighten the screws regularly



CHECKING THE WHEEL BEARING PLAY
Every 6 Months

Wheel bearings are subject to wear: their lifetime depends on the operating conditions, the load, the speed, the adjustment and lubrication, etc.

To check the wheel bearings:
- Use a suitable Jack and lift the wheel off the ground.
- Turn the wheel in both directions slowly to check for any rough points or friction.
- Turn the wheel at high speed to check for unusual noises, such as grating or knocking.

If the bearing is damaged or worn, the bearing and seals should all be replaced

Adjusting the wheel bearings

Lift the axle until the wheel is no longer resting on the ground.
Large wheels should be removed so that the play is easier to feel and to make it easier to adjust the bearings. Remove the hubcap.
- Remove the cotter pin or hair-pin clip from the spindle.
- Tighten the castle nut (right-hand thread) to take up the internal play (the conical roller bearings should then be firmly held between the hub seatings, the pressure ring, spindle and castle nut). The rotation of the hub or wheel feels to be slightly stiff.
- Slacken the castle nut until there is no longer any friction between the castle nut and the outer bearing and the hole for the pin is aligned with a notch in the castle nut.
- Tap the hub gently using a mallet to shake down the assembly.
- Check that the hub rotates more freely.
- Always err on the side of too free rather than too tight.
- When the hub has been adjusted, fit a new split cotter pin or re-fit the hair-pin clip.
- Refit the hubcap.
- When the wheel has been refitted, turn it slightly. It should come to rest with a slow rocking movement due to the imbalance.

LUBRICATING THE WHEEL BEARINGS

Every 2 Years

In normal operating conditions, lubricate the bearings every 2 years or every 50,000 km and when the brake shoes are replaced.

In harsh conditions the bearings should be lubricated more frequently.

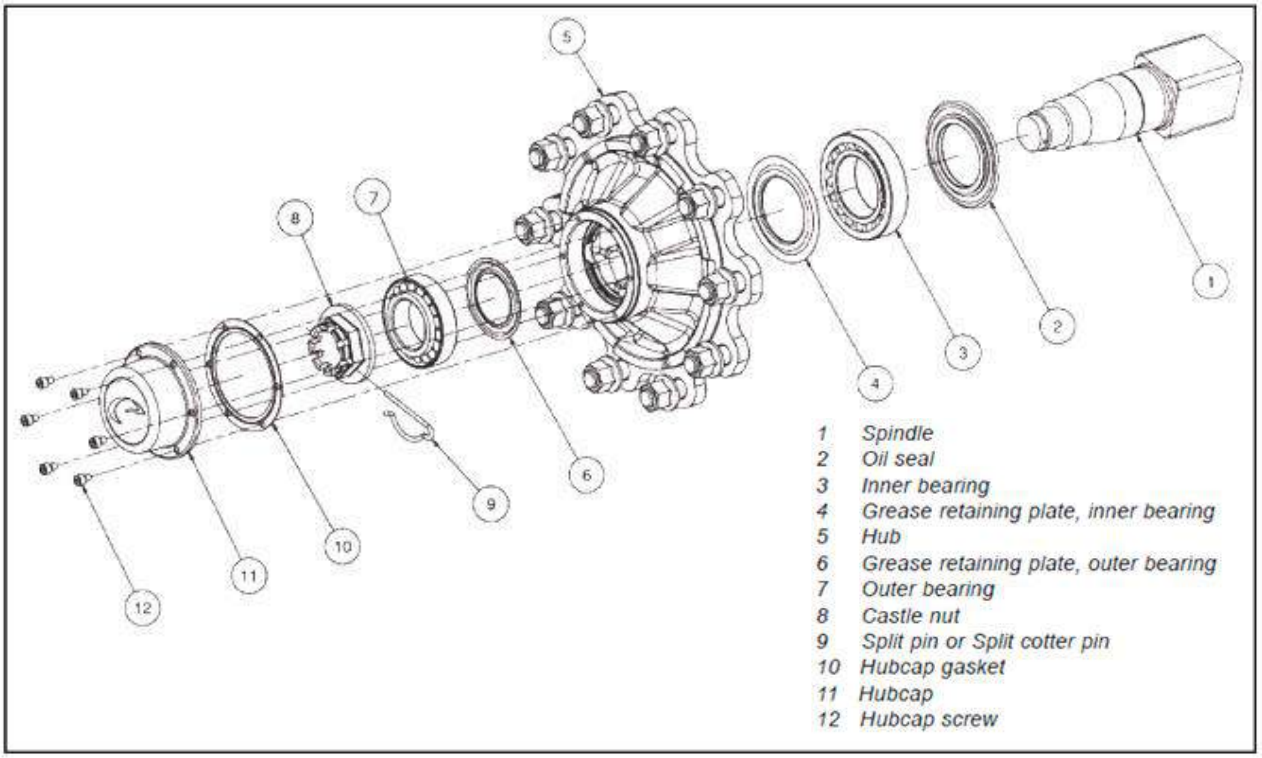
Use a general purpose EP grease formulated for lubricating plain, ball and roller bearings, subject to heavy loads and impacts typical of HGV, agricultural vehicle hubs, etc.

All parts (hub, spindle, bearings, seals, castle nuts, hubcap, cotter pin) should be degreased and Perfectly clean before reassembly.

The work should be carried out in a clean environment with appropriate tools as the slightest bit of dirt can

Damage the bearings or even the spindle.

When carrying out maintenance on the bearings, check the brake linings, drum and return springs, clean the brakes, clean and lubricate the brake cam shaft.



BRAKE MAINTENANCE & ADJUSTMENT

Initial checks

The brakes should be tested before using for the first time and after the first laden journey:

Check the actuator and return spring mountings, check the actuator stroke and return travel and check that the road and parking brakes operate and release correctly.

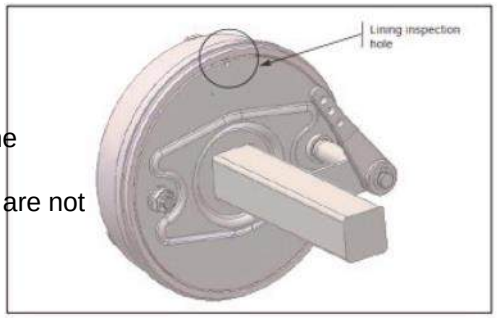
Tighten the screws and nuts (covers, fulcrum, etc), check the cotter pins, pins, circlips, etc.

Check for hydraulic fluid and air leaks.

Every 3 Months

Checking Clearance and wear

Check and test the brakes before intensive use and every 3 months:
Check the brake wear and the clearance between the brake linings and the drum visually.
It is probable that the linings are worn when the actuator travel has increased significantly.
Check the thickness of the brake linings
The brake shoes should be replaced as soon as the minimum lining thickness is reached.
Check that the brakes are clean and clean them if necessary

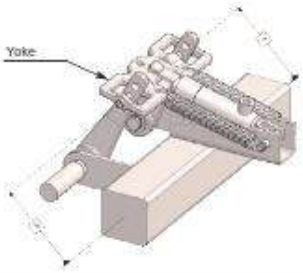


ADJUSTING BRAKES (WITH FIXED LEVERS)

Every 3 Months

Take up the slack when the actuator stroke reaches about two thirds of the maximum travel.
To adjust, turn the lever by one or more splines, ensuring that the brakes are not touching when released
(to prevent overheating the brakes).

Never change the linkage position for the actuator on the lever. Always use the original hole



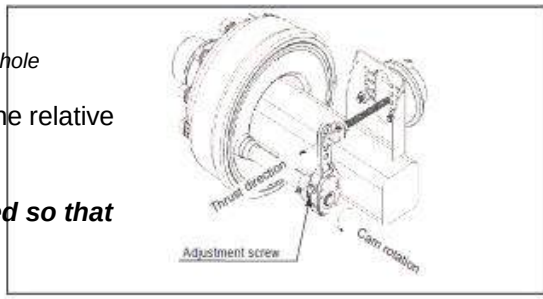
For braking systems which use a yoke, the yoke must remain parallel with the axle especially when the brakes are fully applied
This means that the stroke of the levers on the brakes at each side must be identical. Otherwise, the brake slack must be adjusted.

ADJUSTING BRAKES (WITH ADJUSTABLE LEVERS)

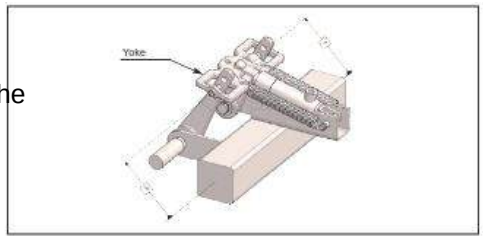
Every 3 Months

Take up the slack when the actuator stroke reaches about two thirds of the maximum stroke

Never change the linkage position for the actuator on the lever. Always use the original hole



To take up the slack, turn the adjustment screw on the lever to adjust the relative position of the cam and the lever
NB. The actuator brakes by pushing the lever to turn it in a particular direction. The screw must be adjusted so that the cam moves in this direction to take up the slack. The direction in which the screw must be turned depends on the configuration of the axle.
Ensure that the brakes are not touching when released (to prevent overheating the brakes).



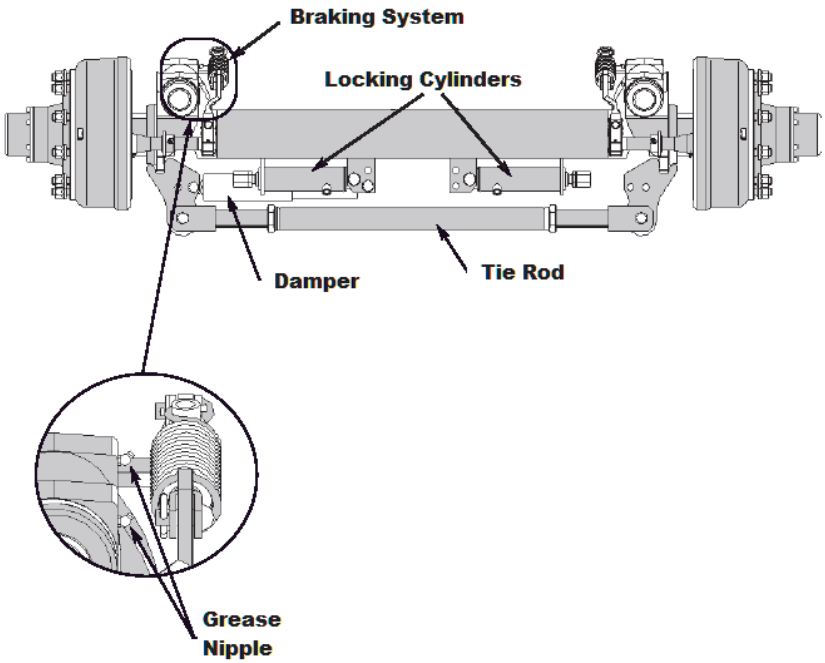
For braking systems which use a yoke, the yoke must remain parallel with the axle especially when the brakes are fully applied
This means that the stroke of the levers on the brakes at each side must be identical. Otherwise, the brake slack must be adjusted.

ADJUSTMENTS FOR STEERING AXLES

Every 3 Months

Steering axles should be maintained in the same way as standard axles. The following additional maintenance is required for steering axles

Lubricate the kingpins.(1)
Tighten all screws and nuts and parts mounted to the axle
Tighten the blind nut and lock nut on the locking
cylinders (2)
Tighten the lock nuts (3) at the end of the adjustable tie rod or the clamping screw (4) for the flexible bushing (For fixed Tie rods) depending on the model.
Check the flexible bushings on the tie rod and damper and change them if necessary.
Check that the tie rod has not been accidentally bent as this adversely affects the steer axle, in particular the wheel alignment.



Parts Numbers and Break Downs

DECALS

The safety decals are placed on the mixer at the time of manufacture. It is important that all the decals are kept clean and legible at all times. If any decals have become illegible or have been removed, replacements are available through your local dealer, or from PENTA TMR Incorporated.

PT # 774600

PT # 774601

PT # 774602

PT # 774603

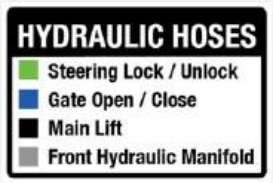
PT # 774604

PT # 774605

PT # 774606

PT # 774607

PT # 774608



PT # 774609

DB 30 PT # 774610

DB 40 PT # 774611

DB 50 PT # 774612

DB 70 PT # 774614

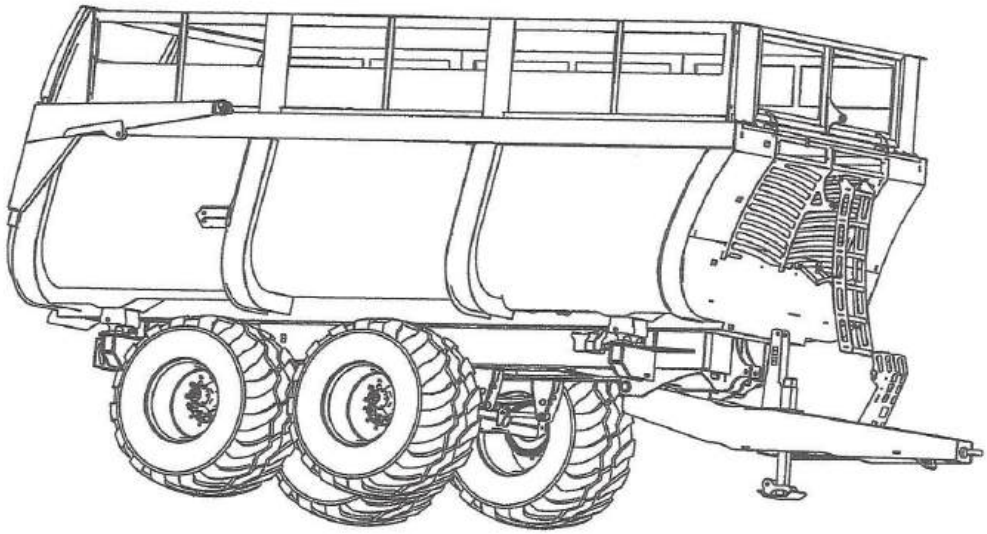
PT # 774615

PT # 490005

PT # 490101

Diagram

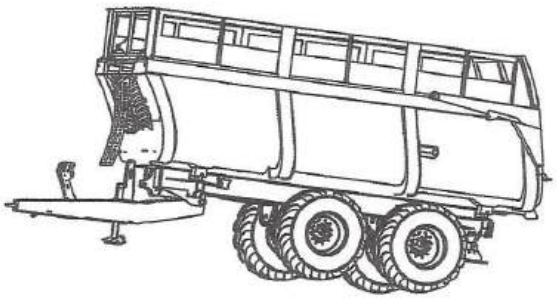
Mechanical Breakdowns



PENTA DB-40

DRAWN: Will Attwood	24/07/2014	
CHECKED		TITLE: DB40 Parts list
QA		
MFG		
APPROVED		SIZE: C / DWG NO: 710004 PART LIST / REV
		SCALE / SHEET 1 OF 5

PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
1	1	720060	DB40 TUB
2	1	720012	FRONT EXTENSION, LEFT
3	1	720011	FRONT EXTENSION, RIGHT
4	1	720013	FRONT GATE
5	1	720006	TAILGATE
6	1	720009	REAR EXTENSION, LEFT
7	1	720010	REAR EXTENSION, RIGHT
8	1	720014	REAR EXTENSION
9	1	720025	CYLINDER MOUNT
10	1	720005	LADDER
11	2	732023	LADDER LOCKING LINKAGE
12	2	732022	LADDER LINKAGE
13	2	739610	TAILGATE PIN
14	1	720059	LOCKING GRAIN DOOR ASSEMBLY
15	1	720061-2	DB40 FRAME
16	1	720052	REAR HITCH MOUNT
17	1	720053	REAR HITCH
18	2	739603	2.5"OD X 8.5" LONG
19	1	720003	JACK MOUNT
20	1	720004	JACK
21	2	720024	FRONT STAND
22	4	743010	BKT 800 / 45 R 26.5
23	2	720001	MAIN CYLINDER MOUNT
24	1	731031 L	LIGHT MOUNT
25	1	731023	GRAIN DOOR CHUTE
26	1	720062	DB40 SIDE EXTENSION, LEFT
27	1	720063	DB40 SIDE EXTENSION, LEFT
28	4	420006	RIM 26.5 X 28
29	1	733009-1	LADDER LATCH
30	1	720042-2	FRONT TONGUE, EXTENDED
31	1	731079	MANIFOLD MOUNT
32	1	774024	Balancer Type 02- A50200001



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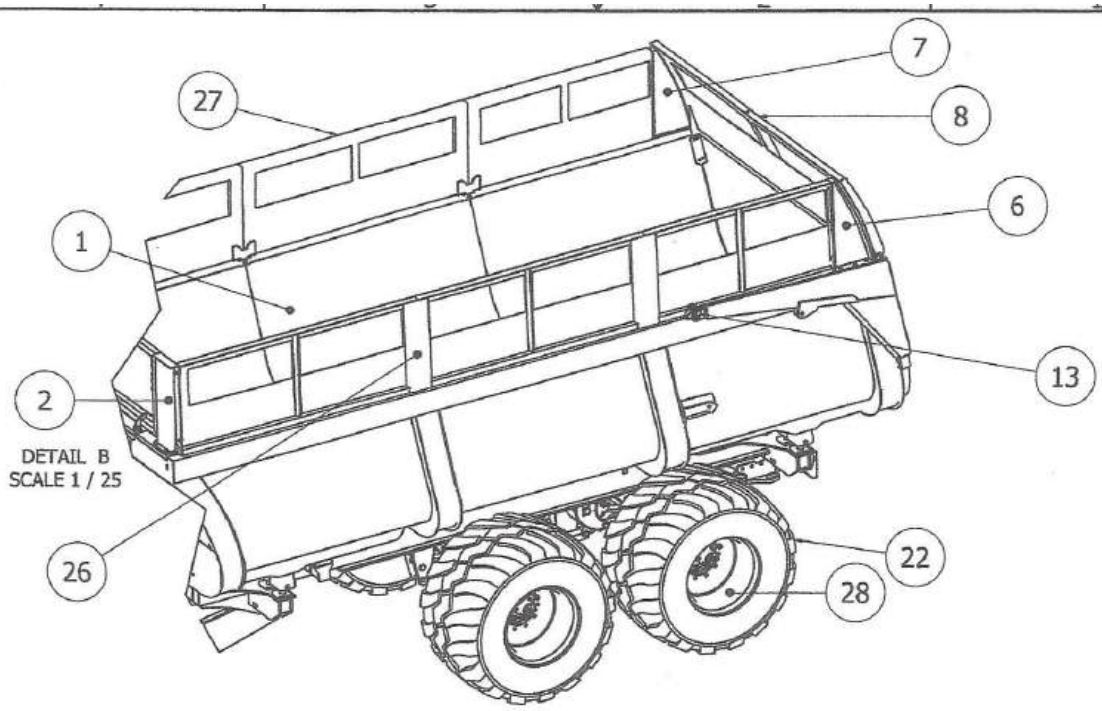
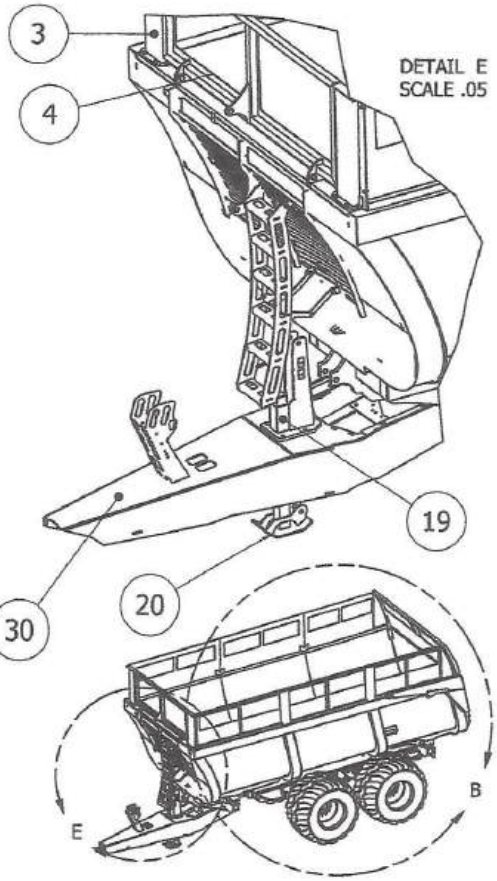
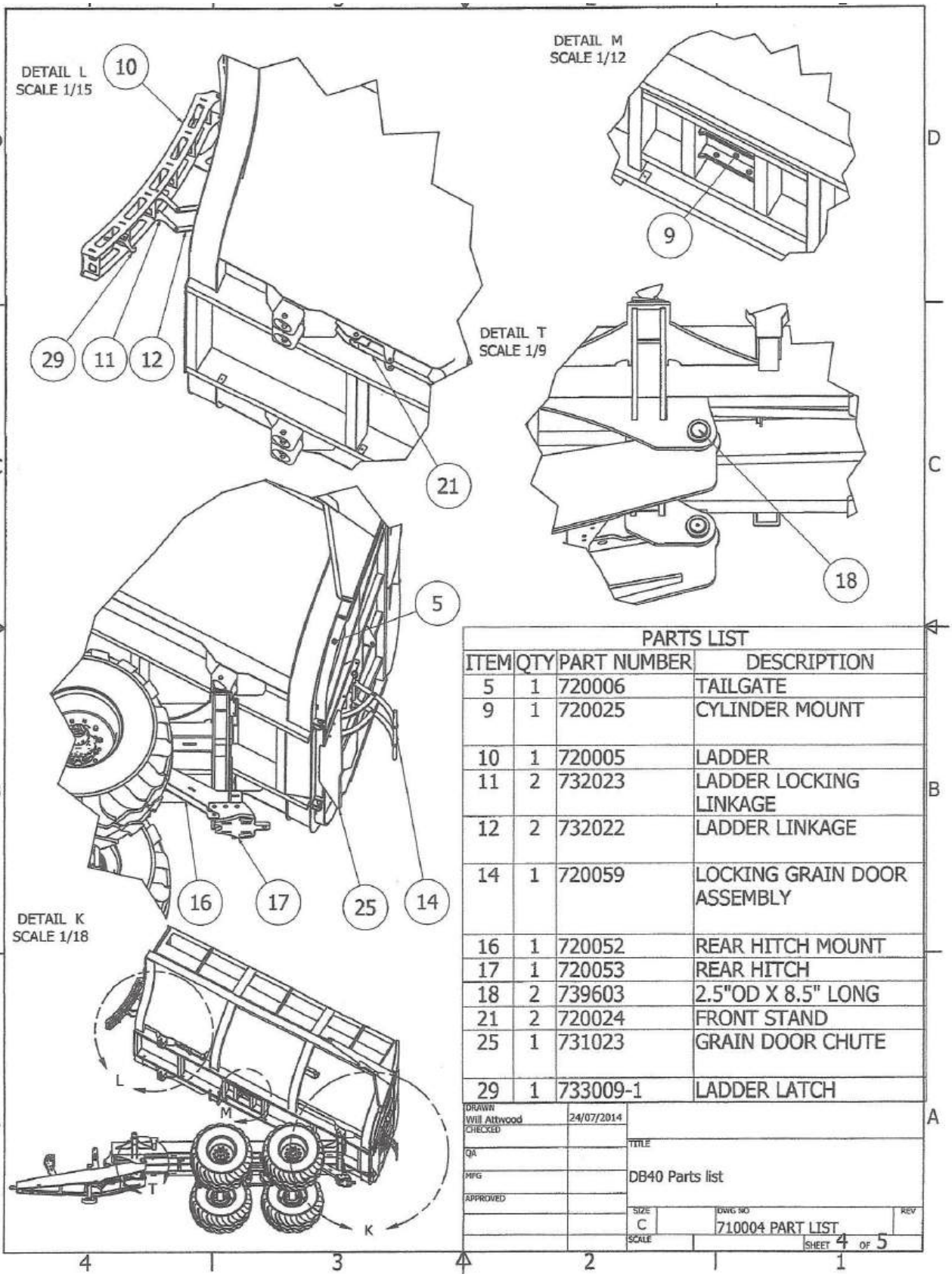




PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	720060	DB40 TUB
2	1	720012	FRONT EXTENSION, LEFT
3	1	720011	FRONT EXTENSION, RIGHT
4	1	720013	FRONT GATE
6	1	720009	REAR EXTENSION, LEFT
7	1	720010	REAR EXTENSION, RIGHT
8	1	720014	REAR EXTENSION
13	2	739610	TAILGATE PIN
19	1	720003	JACK MOUNT
20	1	720004	JACK
22	4	743010	BKT 800 / 45 R 26.5
26	1	720062	DB40 SIDE EXTENSION, LEFT
27	1	720063	DB40 SIDE EXTENSION, LEFT
28	4	420006	RIM 26.5 X 28
30	1	720042-2	FRONT TONGUE, EXTENDED

DRAWN	Will Attwood	24/07/2014	
CHECKED			TITLE: DB40 Parts list
QA			
MFG			
APPROVED			
SIZE: C	DWG NO: 710004 PART LIST		REV
SCALE	SHEET 3 OF 5		



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
5	1	720006	TAILGATE
9	1	720025	CYLINDER MOUNT
10	1	720005	LADDER
11	2	732023	LADDER LOCKING LINKAGE
12	2	732022	LADDER LINKAGE
14	1	720059	LOCKING GRAIN DOOR ASSEMBLY
16	1	720052	REAR HITCH MOUNT
17	1	720053	REAR HITCH
18	2	739603	2.5"OD X 8.5" LONG
21	2	720024	FRONT STAND
25	1	731023	GRAIN DOOR CHUTE
29	1	733009-1	LADDER LATCH

DRAWN	Will Attwood	24/07/2014	
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MFG			
APPROVED			SIZE: C; DWG NO: 710004 PART LIST; REV
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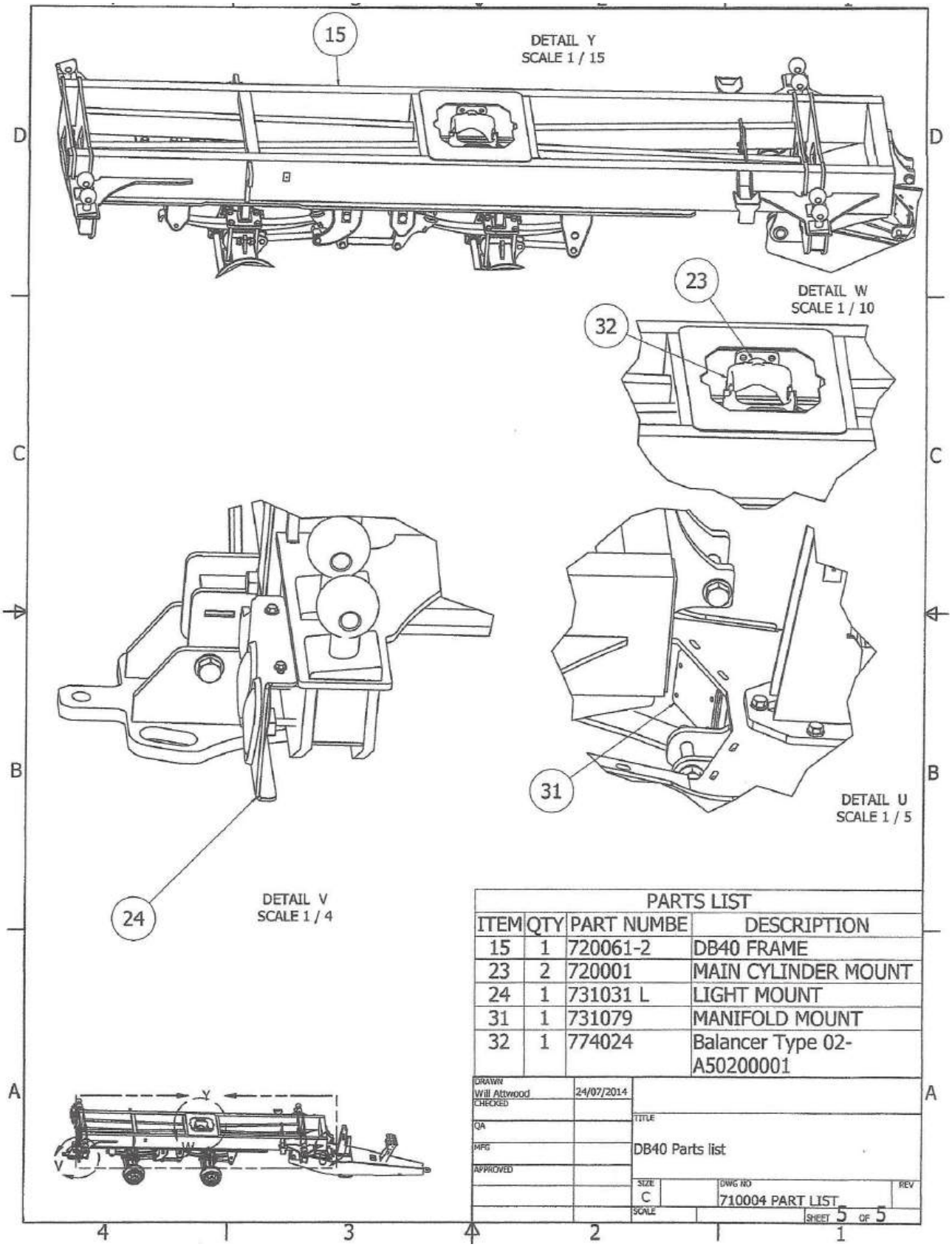
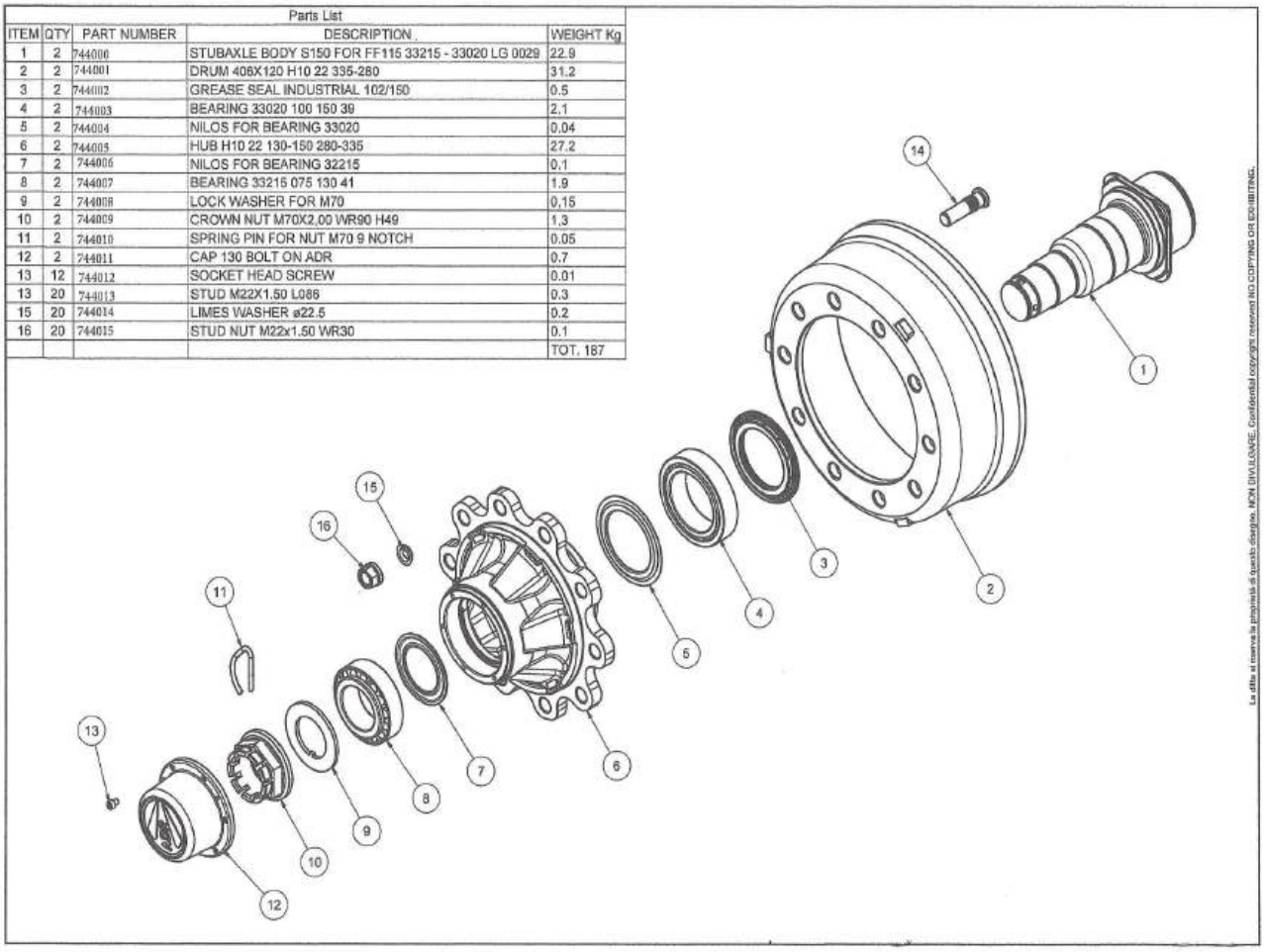


PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
15	1	720061-2	DB40 FRAME
23	2	720001	MAIN CYLINDER MOUNT
24	1	731031 L	LIGHT MOUNT
31	1	731079	MANIFOLD MOUNT
32	1	774024	Balancer Type 02-A50200001

DRAWN	Will Attwood	24/07/2014	
CHECKED			TITLE: DB40 Parts list
QA			
MFG			
APPROVED			SIZE: C; DWG NO: 710004 PART LIST; REV:
			SCALE: ; SHEET 5 OF 5

Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT Kg
1	2	744000	STUBAXLE BODY S150 FOR FF115 33215 - 33020 LG 0029	22.9
2	2	744001	DRUM 406X120 H10 22 335-280	31.2
3	2	744002	GREASE SEAL INDUSTRIAL 102/150	0.5
4	2	744003	BEARING 33020 100 150 39	2.1
5	2	744004	NILOS FOR BEARING 33020	0.04
6	2	744005	HUB H10 22 130-150 280-335	27.2
7	2	744006	NILOS FOR BEARING 32215	0.1
8	2	744007	BEARING 33215 075 130 41	1.9
9	2	744008	LOCK WASHER FOR M70	0.15
10	2	744009	CROWN NUT M70X2,00 WR90 H49	1.3
11	2	744010	SPRING PIN FOR NUT M70 9 NOTCH	0.05
12	2	744011	CAP 130 BOLT ON ADR	0.7
13	12	744012	SOCKET HEAD SCREW	0.01
13	20	744013	STUD M22X1.50 L086	0.3
15	20	744014	LIMES WASHER ø22.5	0.2
16	20	744015	STUD NUT M22x1.50 WR30	0.1
				TOT. 187

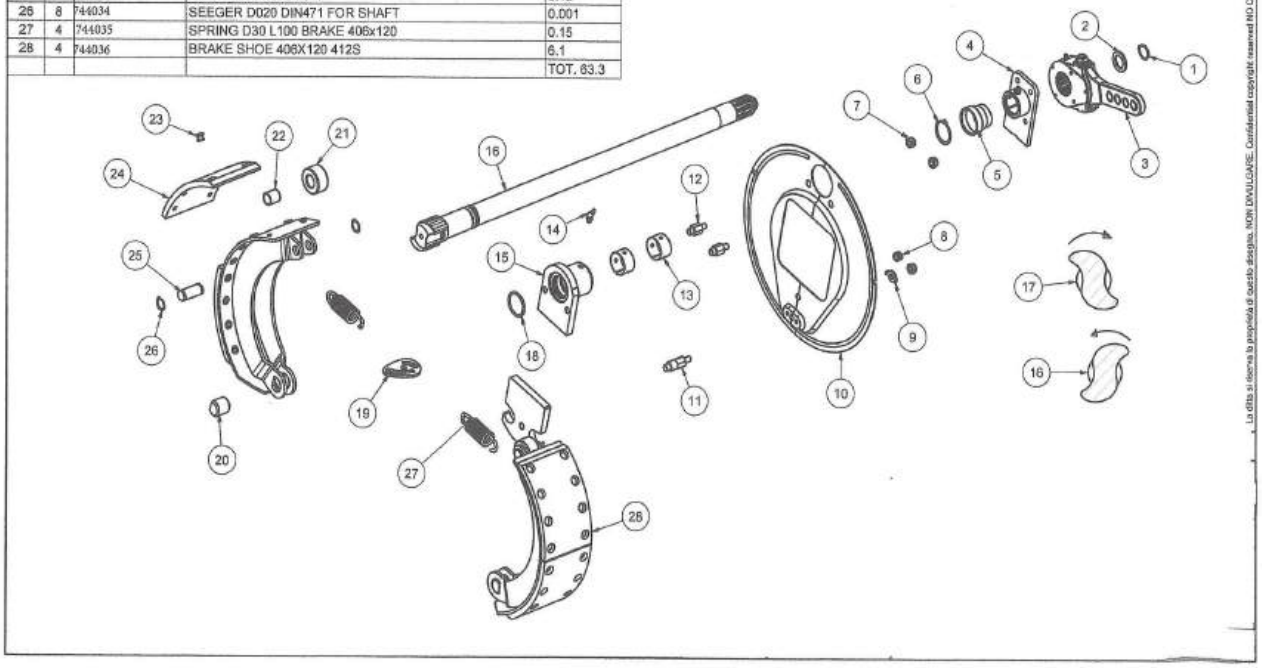


Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT Kg
13	4	744021	BUSH D42/44.5 L026	0.032
14	2	744022	GREASE NIPPLE 45° M08X1,25	0.008
15	2	744023	SPYDER 412S S150 ALIGNED	2.75
16	1	744024	CAM SHAFT D40 B=800 S LEFT SAE 1,5" Z=10 412S	8.8
17	1	744025	CAM SHAFT D40 B= 800 S RIGHT SAE 1,5" Z=10 412S	8.8
18	2	744026	OR 146-353 D041,23 WIRE 3,53	0.002
19	2	744027	SPRING EXTENDER 412S 414S	0.08
20	4	744028	PIN FOR BRAKE SHOE 412S 414S	0.15
21	4	744029	ROLL FOR BRAKE SHOE 412S 414S	0.31
22	4	744030	BUSH MU-P 202325 FOR ROLL FOR BRAKE SHOES	0.02
23	64	744031	RIVET 8X15 FOR LINING	0.004
24	8	744032	LINING 406X120 BRAKE 412S	0.53
25	4	744033	PIN BRAKE D020 L047	0.12
26	8	744034	SEEGER D020 DIN471 FOR SHAFT	0.001
27	4	744035	SPRING D30 L100 BRAKE 406x120	0.15
28	4	744036	BRAKE SHOE 406X120 412S	6.1
				TOT. 63.3

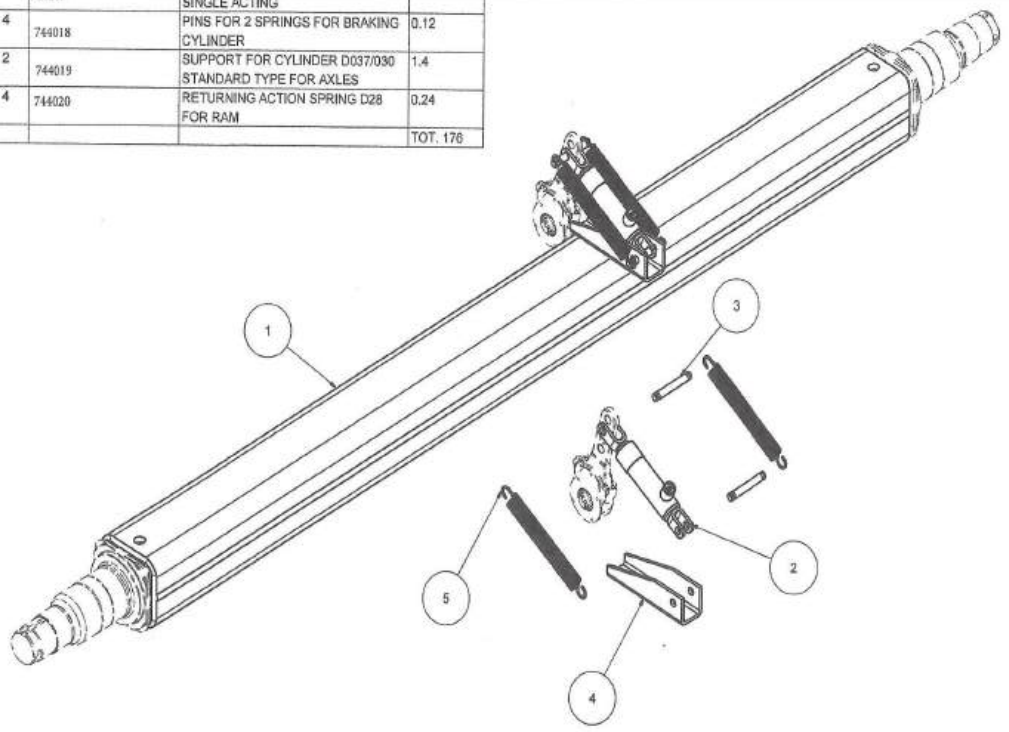
Parts List

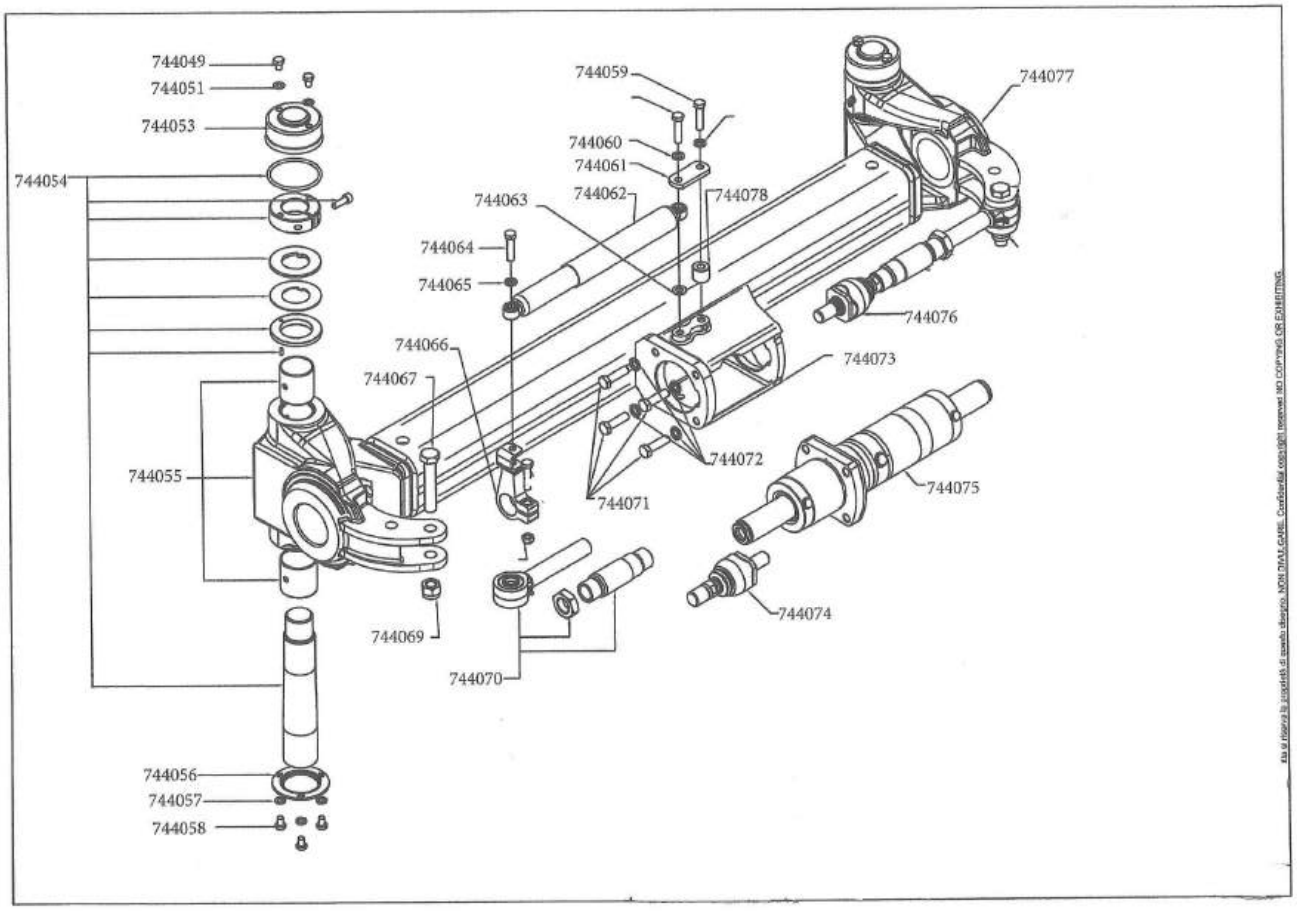
ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT Kg
1	2	744037	SEEGER D025 DIN471 FOR SHAFT	0.002
2	2	744038	WASHER M26 D026 D039 TK 4.0 UNI 1749 ZINC PLATED	0.02
3	2	744039	SLACK ADJUSTER SAE 1,5" Z=10	2.3
4	2	744040	SUPPORT D=38 L=062 FOR CAM SHAFT	0.7
5	2	744041	RUBBER CAP FOR CAM SHAFT Ø40	0.04
6	2	744042	SEEGER D042 DIN471 FOR SHAFT	0.007
7	6	744043	NUT M10X1,50 DIN 985	0.013
8	2	744044	RUBBER FAIRLEAD D15	0.004
9	2	744045	LOCK WASHER Ø10	0.008
10	2	744046	PROTECTION PLATE 412S S150	1.266
11	2	7474047	SPACER M12X1,75 M10X1,50 L062 LOWER SPYDER 412S	0.085
12	4	744048	SPACER M12X1,75 M10X1,50 L043 UPPER SPYDER 412S	0.055



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT Kg
1	1	744016	BODY AXLE S150X14 TRACK 2400	165.4
2	2	744017	CYLINDER D037/030 S110 BRAKING SINGLE ACTING	1.73
3	4	744018	PINS FOR 2 SPRINGS FOR BRAKING CYLINDER	0.12
4	2	744019	SUPPORT FOR CYLINDER D037/030 STANDARD TYPE FOR AXLES	1.4
5	4	744020	RETURNING ACTION SPRING D28 FOR RAM	0.24
				TOT. 176




744049
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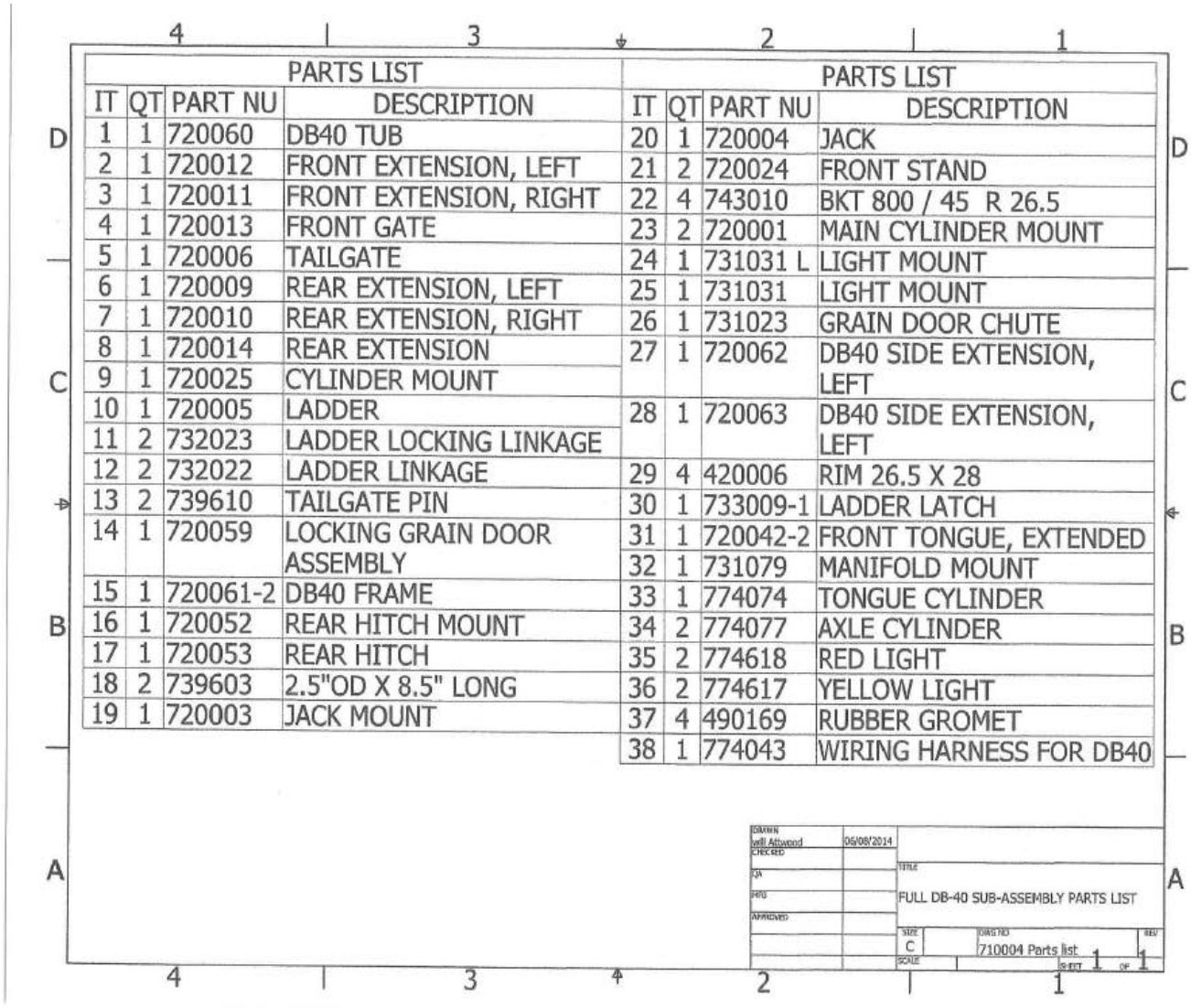
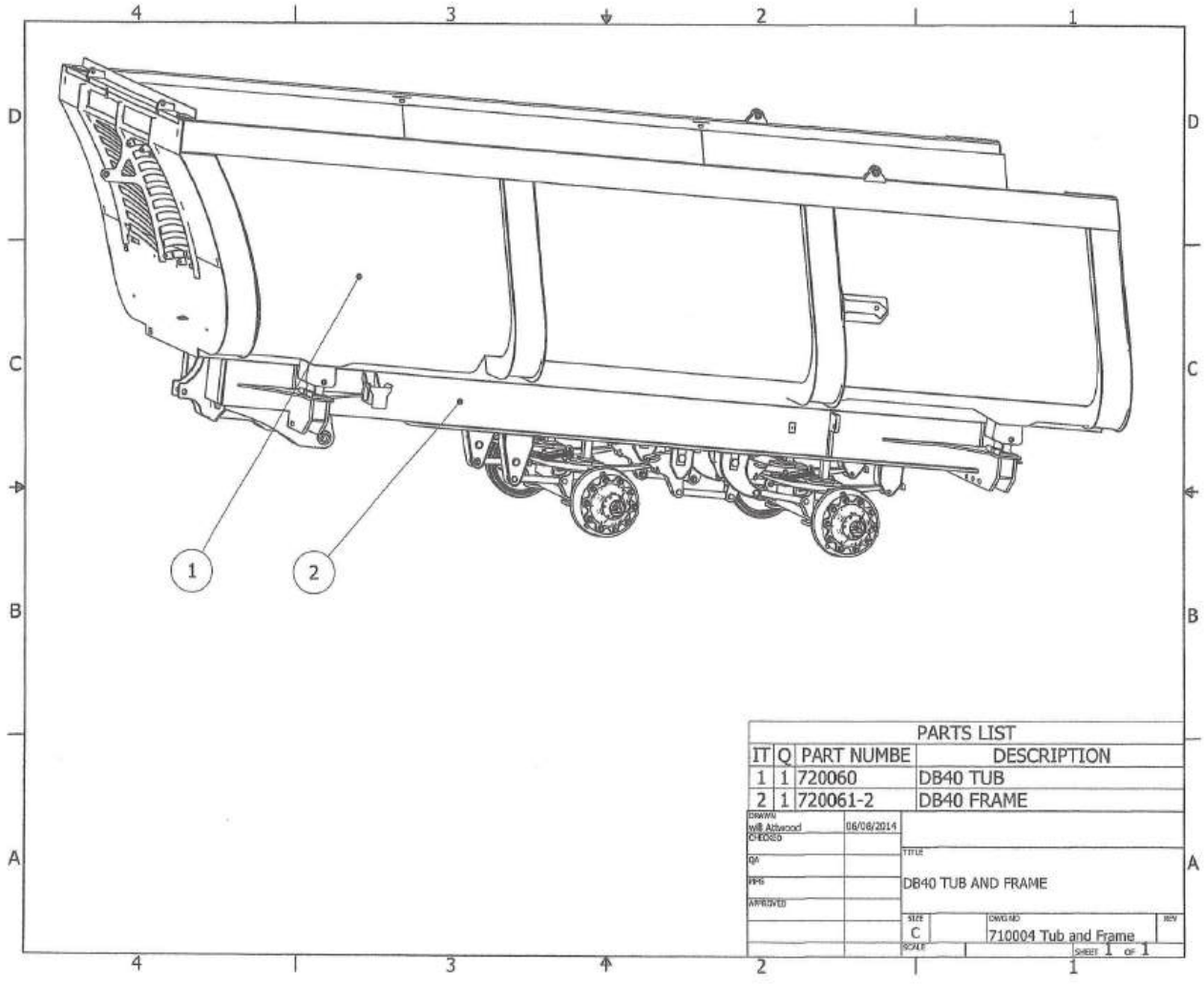


PARTS LIST			
IT	QT	PART NU	DESCRIPTION
1	1	720060	DB40 TUB
2	1	720012	FRONT EXTENSION, LEFT
3	1	720011	FRONT EXTENSION, RIGHT
4	1	720013	FRONT GATE
5	1	720006	TAILGATE
6	1	720009	REAR EXTENSION, LEFT
7	1	720010	REAR EXTENSION, RIGHT
8	1	720014	REAR EXTENSION
9	1	720025	CYLINDER MOUNT
10	1	720005	LADDER
11	2	732023	LADDER LOCKING LINKAGE
12	2	732022	LADDER LINKAGE
13	2	739610	TAILGATE PIN
14	1	720059	LOCKING GRAIN DOOR ASSEMBLY
15	1	720061-2	DB40 FRAME
16	1	720052	REAR HITCH MOUNT
17	1	720053	REAR HITCH
18	2	739603	2.5"OD X 8.5" LONG
19	1	720003	JACK MOUNT

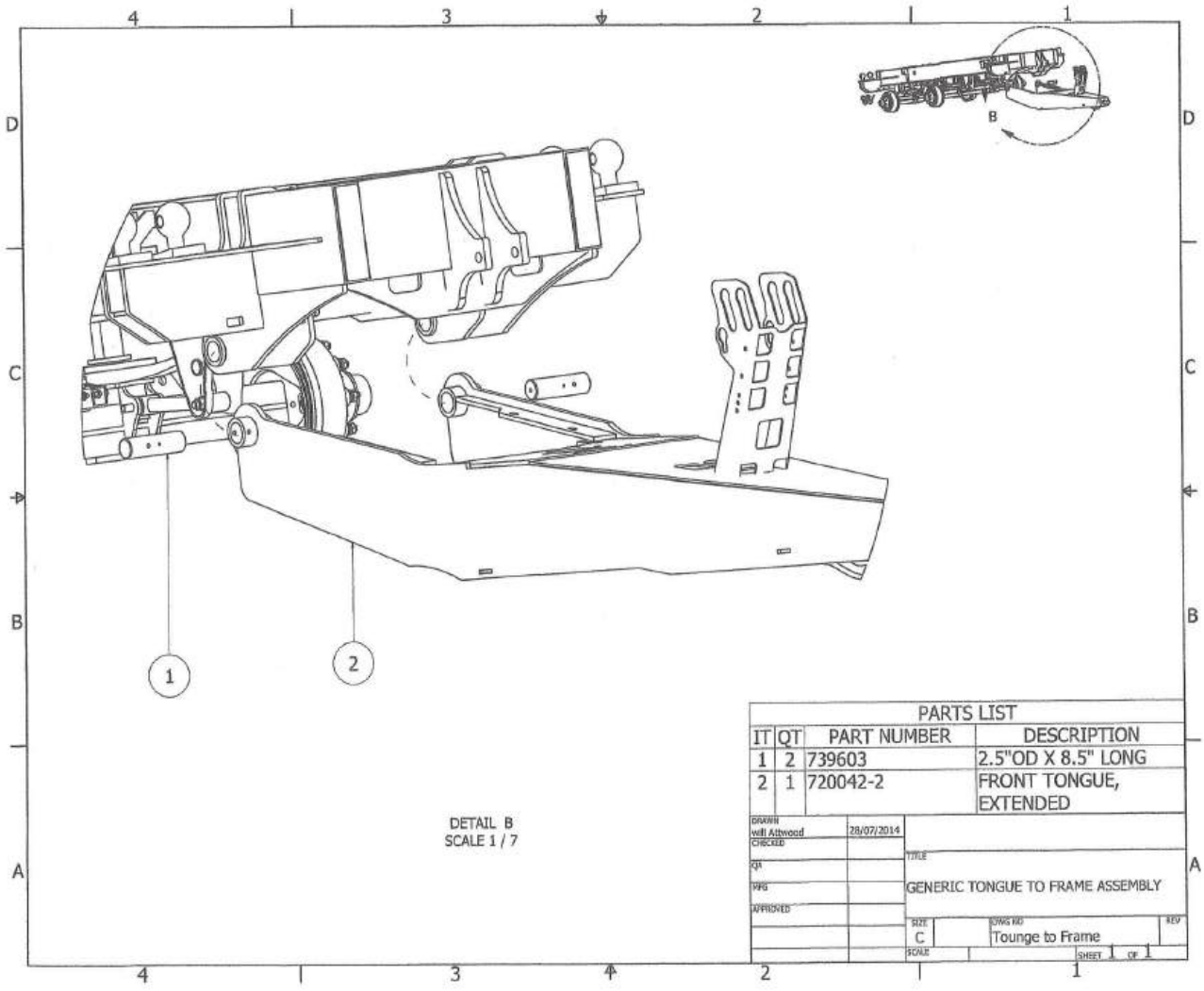
PARTS LIST			
IT	QT	PART NU	DESCRIPTION
20	1	720004	JACK
21	2	720024	FRONT STAND
22	4	743010	BKT 800 / 45 R 26.5
23	2	720001	MAIN CYLINDER MOUNT
24	1	731031 L	LIGHT MOUNT
25	1	731031	LIGHT MOUNT
26	1	731023	GRAIN DOOR CHUTE
27	1	720062	DB40 SIDE EXTENSION, LEFT
28	1	720063	DB40 SIDE EXTENSION, LEFT
29	4	420006	RIM 26.5 X 28
30	1	733009-1	LADDER LATCH
31	1	720042-2	FRONT TONGUE, EXTENDED
32	1	731079	MANIFOLD MOUNT
33	1	774074	TONGUE CYLINDER
34	2	774077	AXLE CYLINDER
35	2	774618	RED LIGHT
36	2	774617	YELLOW LIGHT
37	4	490169	RUBBER GROMET
38	1	774043	WIRING HARNESS FOR DB40

DRAWN: Will Attwood	06/08/2014	
CHECKED		
QA		TITLE: FULL DB-40 SUB-ASSEMBLY PARTS LIST
MFG		
APPROVED		
		SIZE: C; DWG NO: 710004 Parts list; REV
		SCALE: SHEET 1 OF 1



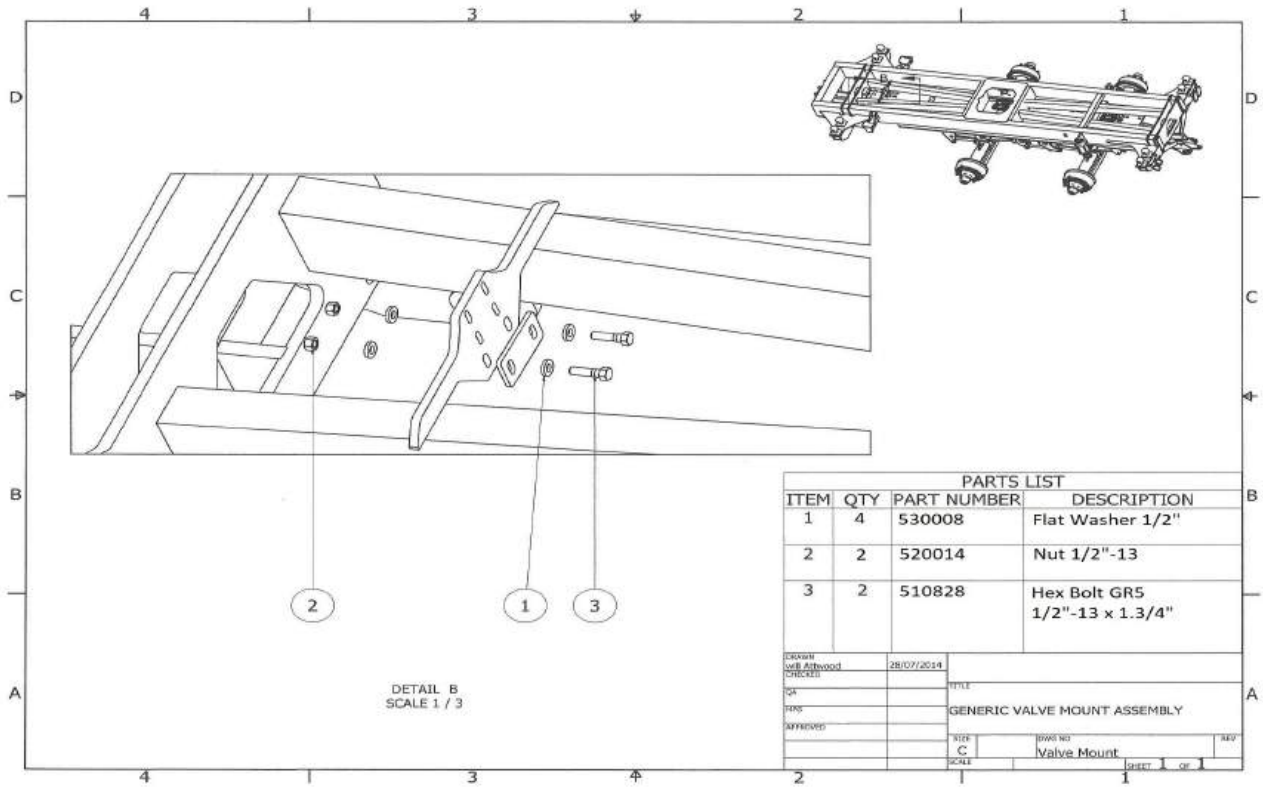
PARTS LIST			
IT	Q	PART NUMBE	DESCRIPTION
1	1	720060	DB40 TUB
2	1	720061-2	DB40 FRAME

DRAWN	Will Attwood	06/08/2014	
CHECKED			
QA			TITLE: DB40 TUB AND FRAME
MFG			
APPROVED			
			SIZE: C; DWG NO: 710004 Tub and Frame; REV
			SCALE: 1; SHEET 1 OF 1



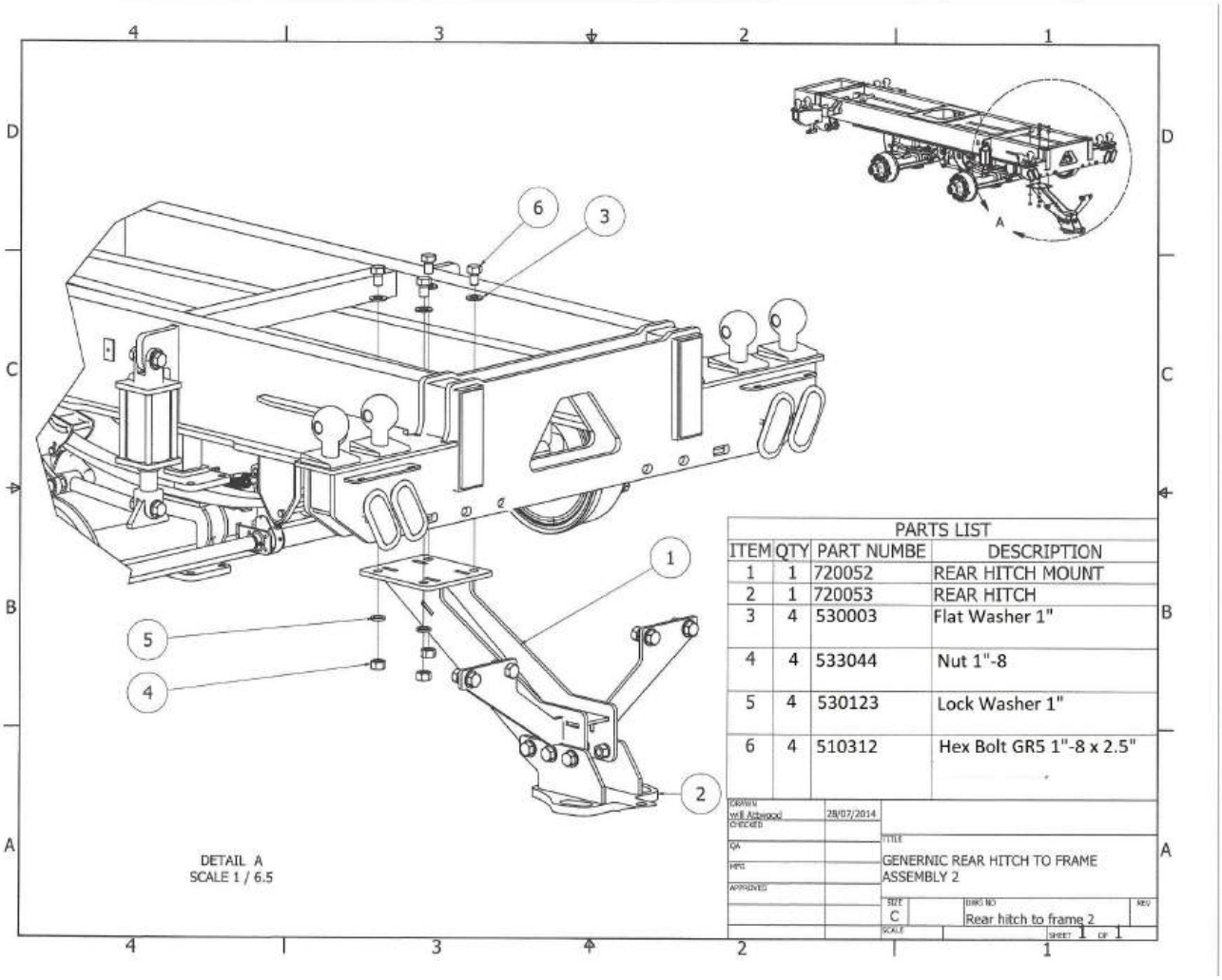
PARTS LIST			
IT	QT	PART NUMBER	DESCRIPTION
1	2	739603	2.5"OD X 8.5" LONG
2	1	720042-2	FRONT TONGUE, EXTENDED

DRAWN: will Attwood	28/07/2014		
CHECKED		TITLE	
QA		GENERIC TONGUE TO FRAME ASSEMBLY	
MFG			
APPROVED		SIZE: C	DWG NO: Tounge to Frame
		SCALE	SHEET 1 OF 1



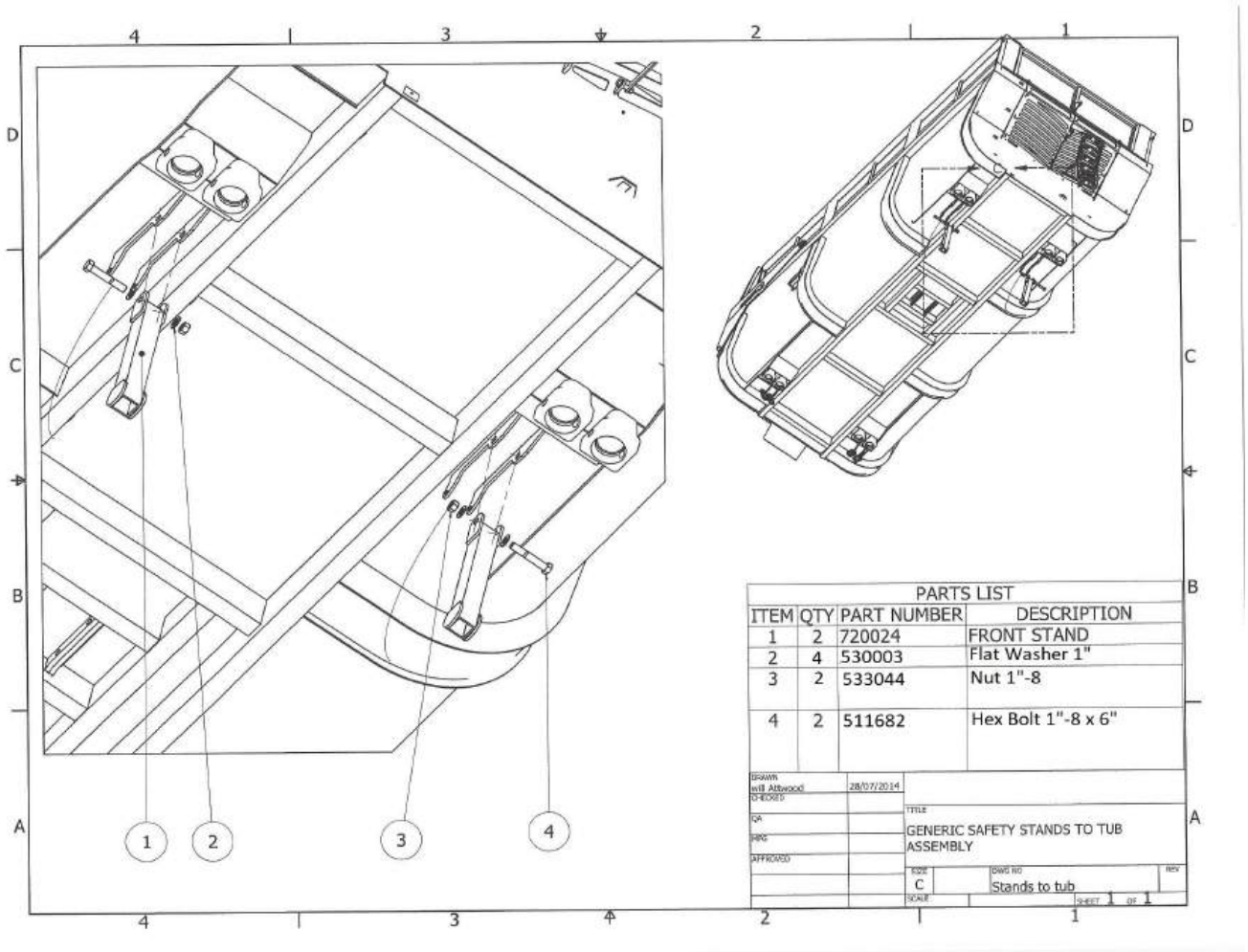
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	530008	Flat Washer 1/2"
2	2	520014	Nut 1/2"-13
3	2	510828	Hex Bolt GR5 1/2"-13 x 1.3/4"

DRAWN: Will Attwood	28/07/2014	
CHECKED		
QA		TITLE: GENERIC VALVE MOUNT ASSEMBLY
MFG		
APPROVED		
		SIZE: C / DWG NO: Valve Mount / REV
		SCALE / SHEET 1 OF 1



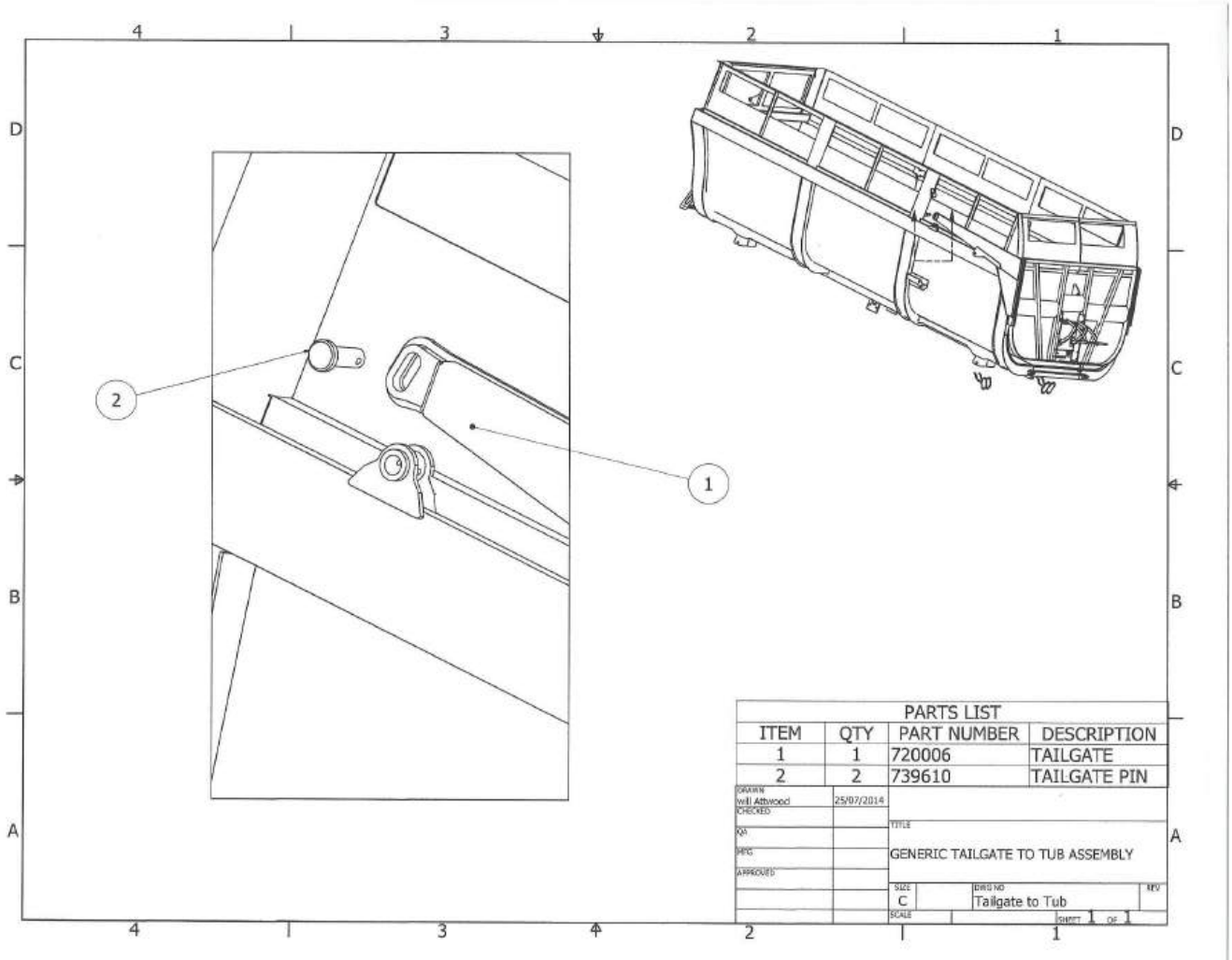
PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
1	1	720052	REAR HITCH MOUNT
2	1	720053	REAR HITCH
3	4	530003	Flat Washer 1"
4	4	533044	Nut 1"-8
5	4	530123	Lock Washer 1"
6	4	510312	Hex Bolt GR5 1"-8 x 2.5"

DRAWN: will Attwood	28/07/2014	
CHECKED		
QA		TITLE: GENERNIC REAR HITCH TO FRAME ASSEMBLY 2
MFG		
APPROVED		
		SIZE: C; DWG NO: Rear hitch to frame 2; REV
		SCALE; SHEET 1 OF 1



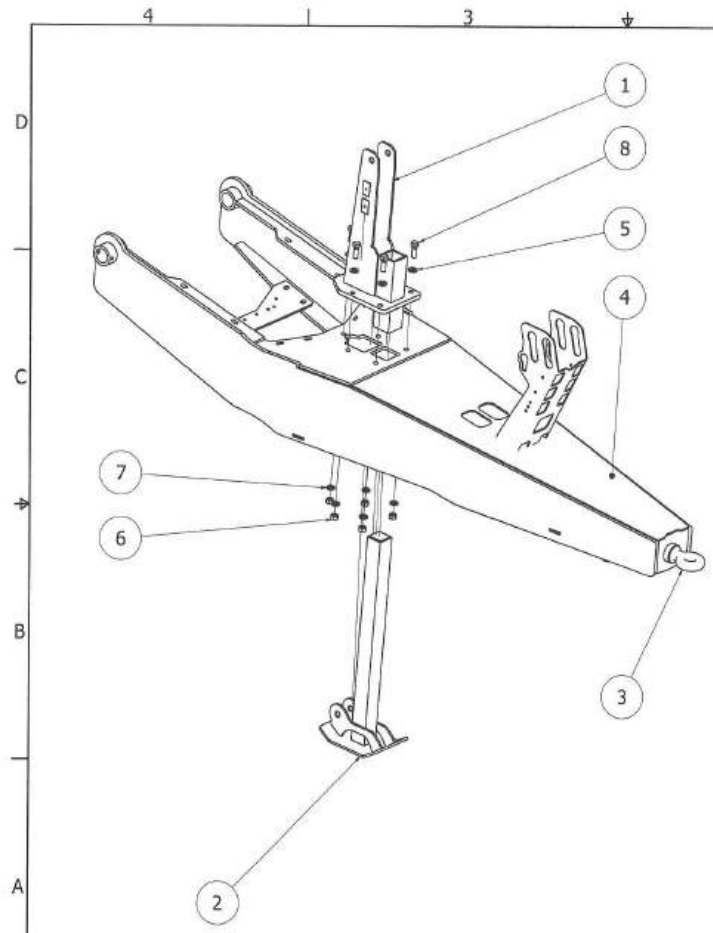
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	720024	FRONT STAND
2	4	530003	Flat Washer 1"
3	2	533044	Nut 1"-8
4	2	511682	Hex Bolt 1"-8 x 6"

DRAWN	will Attwood	28/07/2014	
CHECKED			
QA			
MFG			
APPROVED			
		TITLE	GENERIC SAFETY STANDS TO TUB ASSEMBLY
		SIZE	C
		DWG NO	Stands to tub
		REV	
		SCALE	
		SHEET	1 OF 1



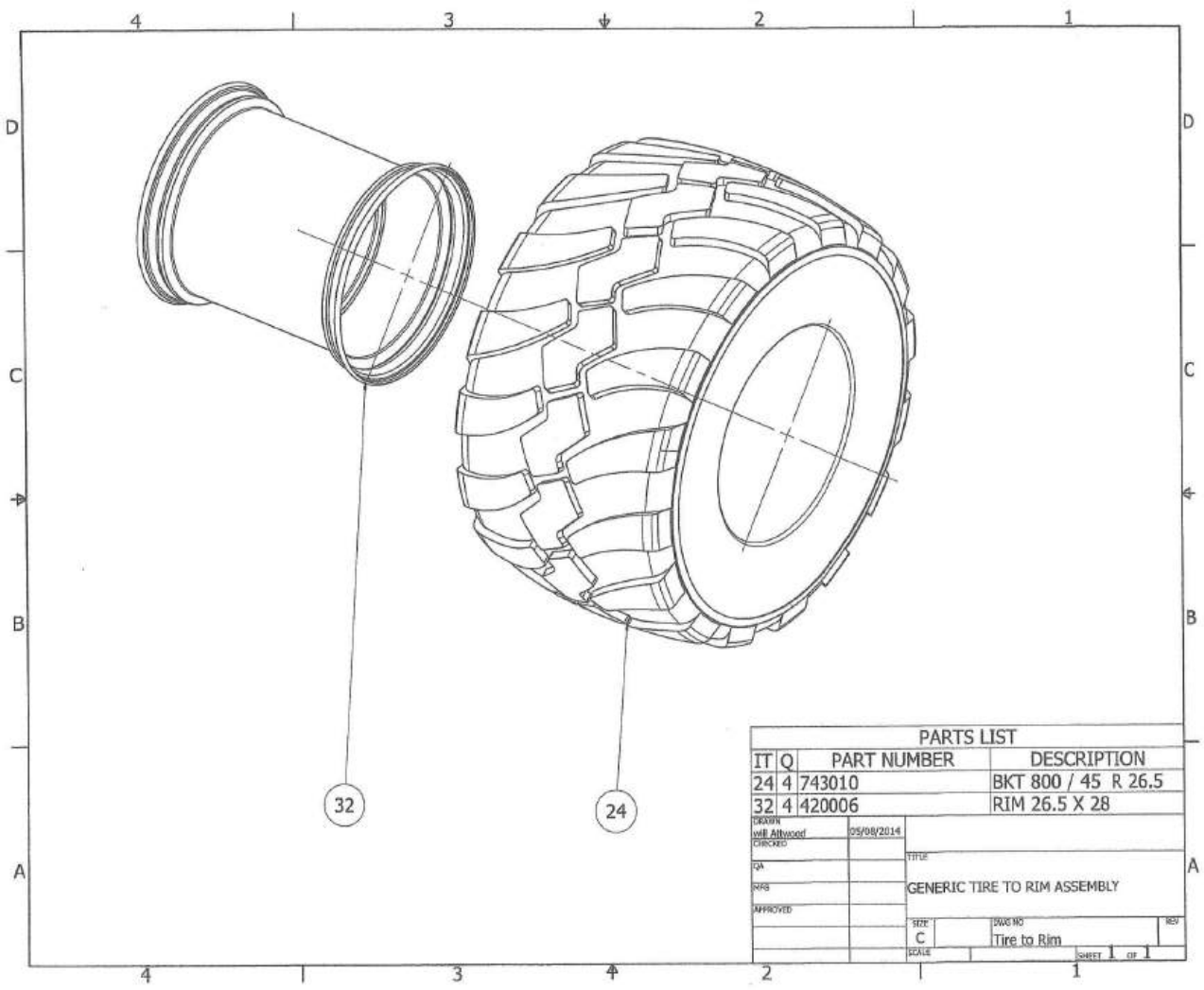
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	720006	TAILGATE
2	2	739610	TAILGATE PIN

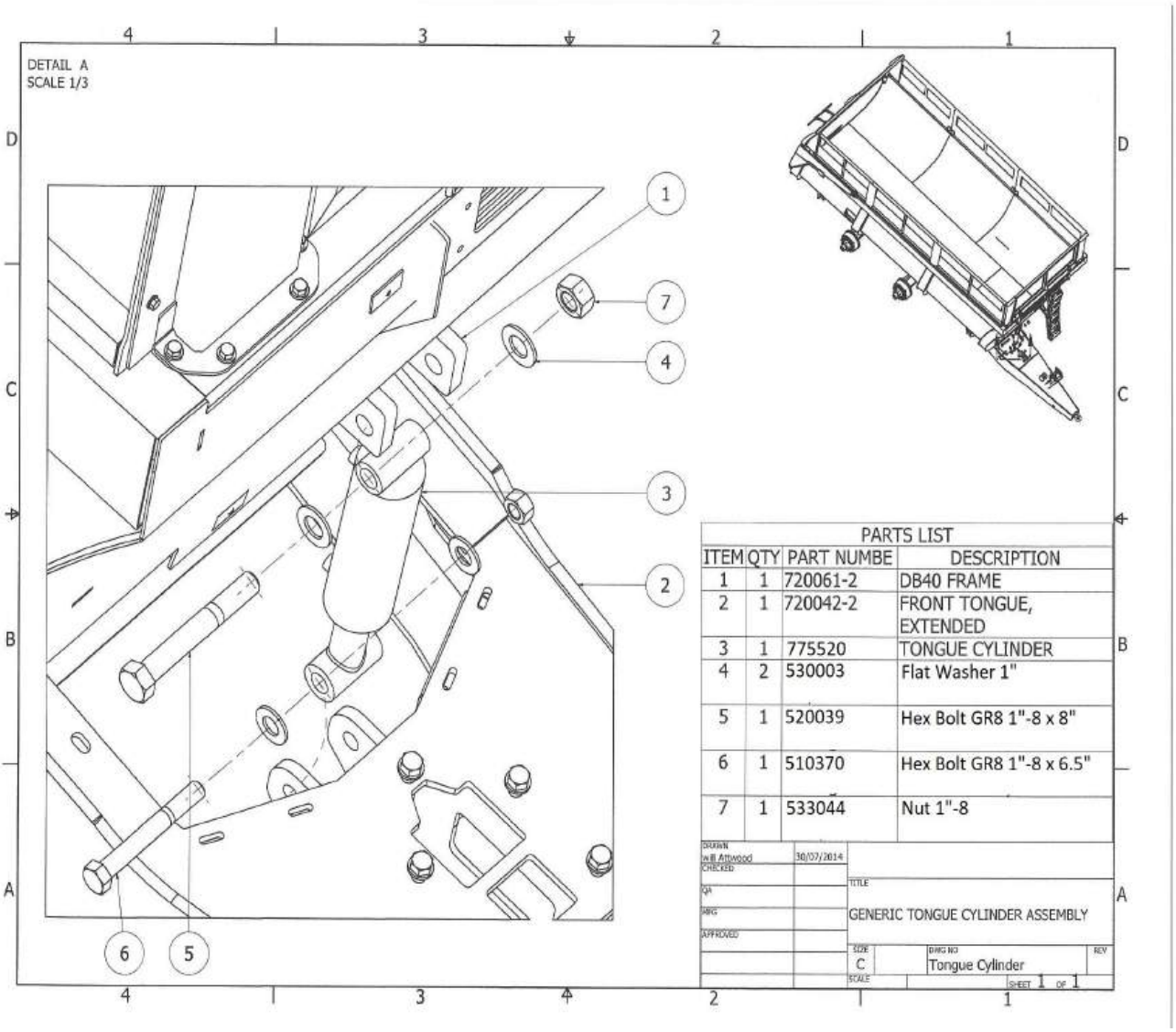
DRAWN: Will Attwood	25/07/2014	
CHECKED		TITLE: GENERIC TAILGATE TO TUB ASSEMBLY
QA		
MFG		
APPROVED		
		SIZE: C — DWG NO: Tailgate to Tub — REV
		SCALE — SHEET 1 OF 1



PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
1	1	720003	JACK MOUNT
2	1	720004	JACK
3	1	774010	PINTAL HITCH
4	1	720042-2	FRONT TONGUE, EXTENDED
5	5	530012	Flat Washer 3/4"
6	5	533029	Nut 3/4"- 10
7	5	511029	Lock Washer 3/4"
8	5	510215	Hex Bolt 3/4"-10 x 2.5"

DRAWN: Will Attwood 29/07/2014
CHECKED
QA
MFG
APPROVED
TITLE: GENERIC TONGUE ASSEMBLY
SIZE: C
DWG NO: Tongue Assembly
REV
SCALE
SHEET 1 OF 1

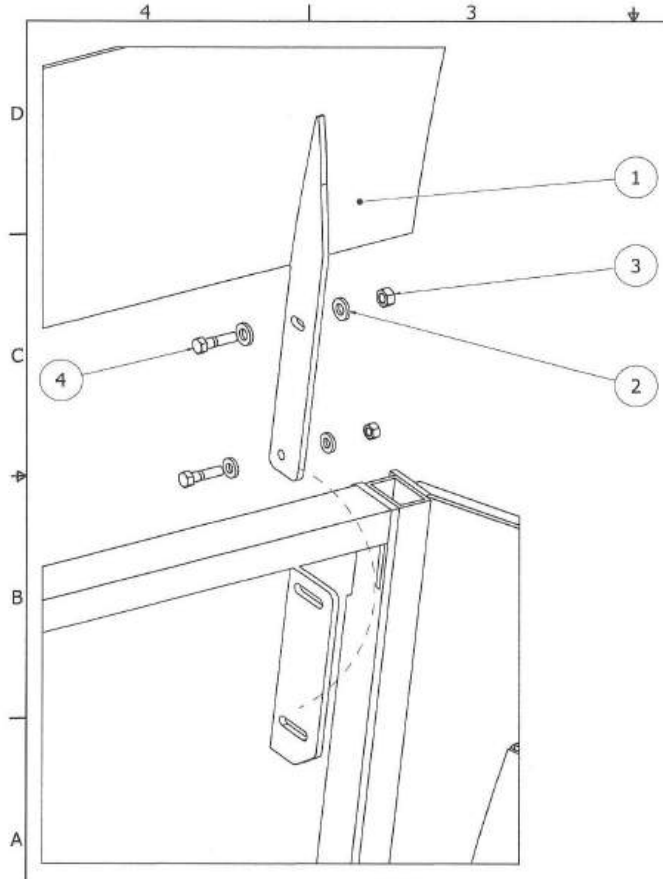

4
3
2
1
D
C
B
A
32
24
PARTS LIST
IT Q PART NUMBER DESCRIPTION
24 4 743010 BKT 800 / 45 R 26.5
32 4 420006 RIM 26.5 X 28
DRAWN
will Attwood
05/08/2014
CHECKED
QA
MFG
APPROVED
TITLE
GENERIC TIRE TO RIM ASSEMBLY
SIZE
C
DWG NO
Tire to Rim
REV
SCALE
SHEET 1 OF 1



PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
1	1	720061-2	DB40 FRAME
2	1	720042-2	FRONT TONGUE, EXTENDED
3	1	775520	TONGUE CYLINDER
4	2	530003	Flat Washer 1"
5	1	520039	Hex Bolt GR8 1"-8 x 8"
6	1	510370	Hex Bolt GR8 1"-8 x 6.5"
7	1	533044	Nut 1"-8

DRAWN Will ATTWOOD 30/07/2014
CHECKED
QA
MFG
APPROVED

TITLE: GENERIC TONGUE CYLINDER ASSEMBLY
SIZE: C
DWG NO: Tongue Cylinder
REV
SCALE
SHEET 1 OF 1



DETAIL C
SCALE 1 / 3

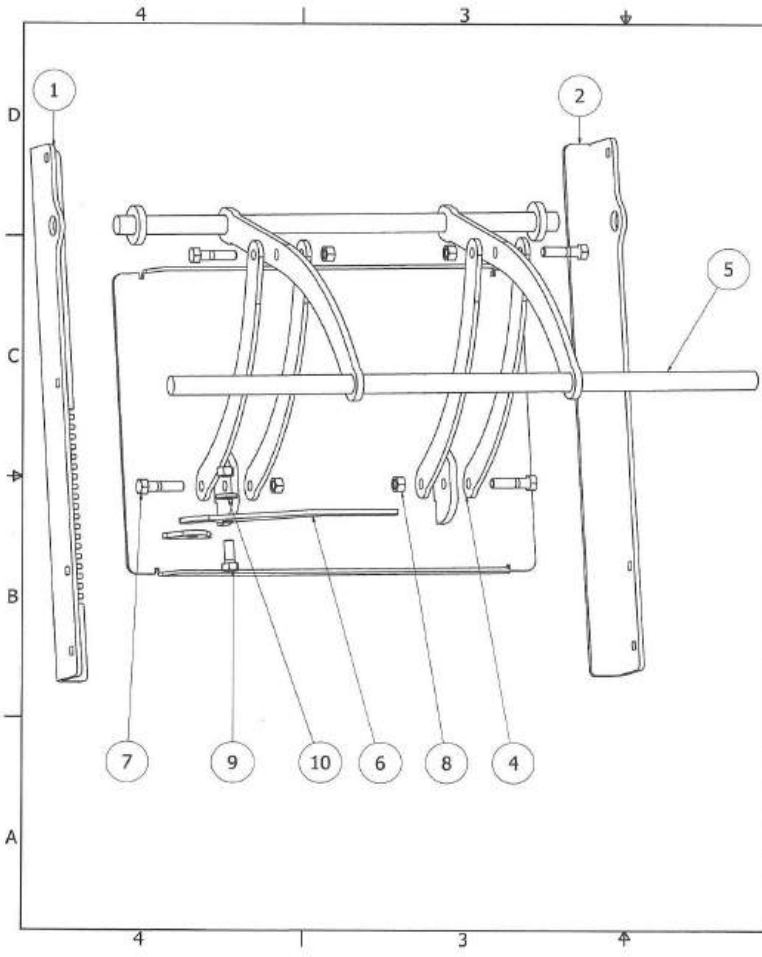
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	720014-2	Rear Extension
2	8	530008	1/2" Flat Washer
3	4	520014	1/2" nut
4	4	510832	Hex Bolt 1/2"-13 x 2"

DRAWN	Neil Attwood	28/07/2014	
CHECKED			
QA			
MFG			
APPROVED			

TITLE: GENERIC EXTENSION TO TAILGATE

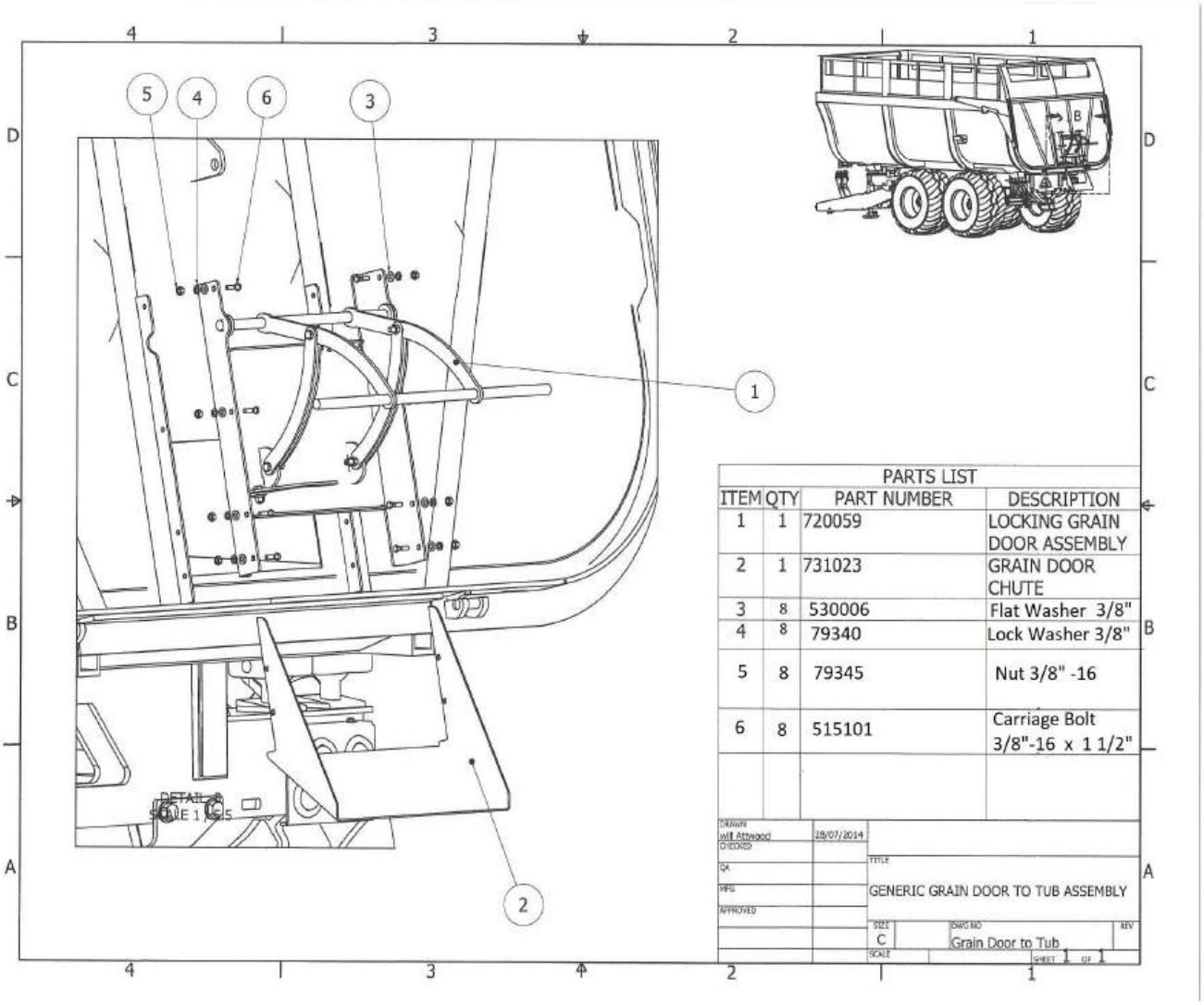
SIZE: C | DWG NO: Extension to Tailgate | REV

SCALE | SHEET | OF



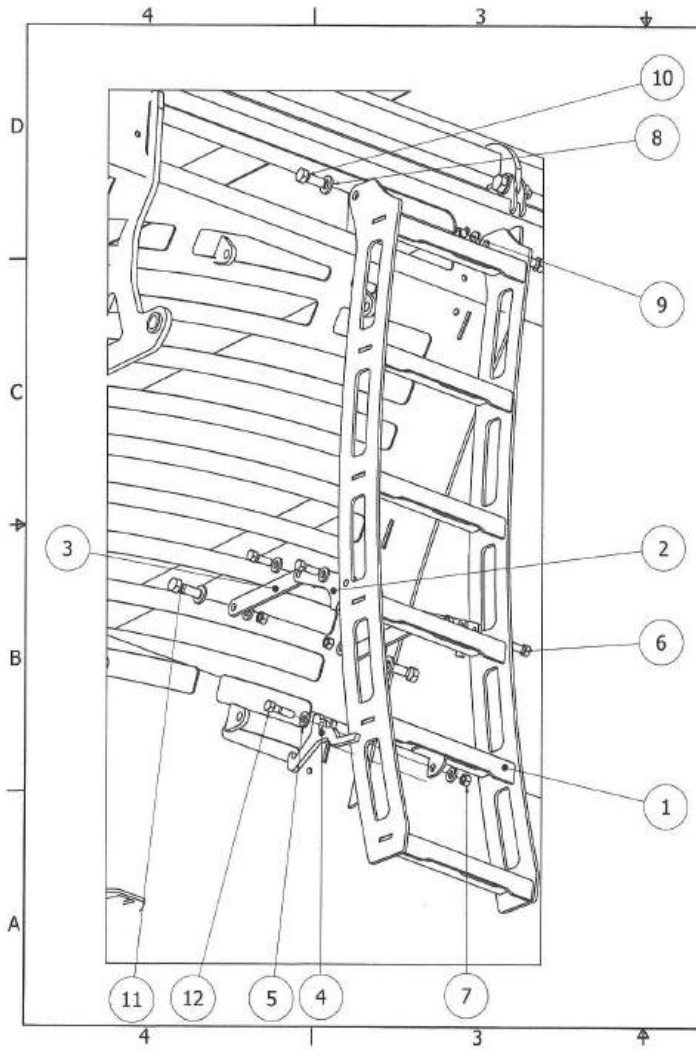
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	732075	GRAIN DOOR RAIL LH
2	1	732076	GRAIN DOOR RAIL RH
4	4	732079	GRAIN DOOR LINKAGE, BOTTOM
5	1	720057	GRAIN DOOR HANDLE
6	1	732077	GRAIN DOOR LOCK HANDLE
7	4	510832	Hex Bolt 1/2"-13 x 2"
8	5	520014	1/2" nut
9	1	500196	Hex Bolt 1/2"-13 x 1.25"
10	1	530008	Washer 1/2" Flat

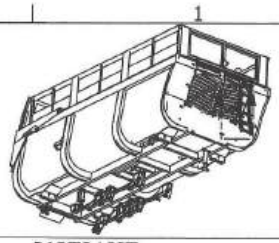
DRAWN: Will Attwood	28/07/2014	
CHECKED		
QA		TITLE: GENERIC GRAIN DOOR ASSEMBLY
MFG		
APPROVED		SIZE: C; DWG NO: 720059; REV
		SCALE; SHEET 1 OF 1



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	720059	LOCKING GRAIN DOOR ASSEMBLY
2	1	731023	GRAIN DOOR CHUTE
3	8	530006	Flat Washer 3/8"
4	8	79340	Lock Washer 3/8"
5	8	79345	Nut 3/8" -16
6	8	515101	Carriage Bolt 3/8"-16 x 1 1/2"

DRAWN: Will Attwood	28/07/2014	
CHECKED		
QA		TITLE: GENERIC GRAIN DOOR TO TUB ASSEMBLY
MFG		
APPROVED		
	SIZE: C	DWG NO: Grain Door to Tub — REV
	SCALE	SHEET 1 OF 1

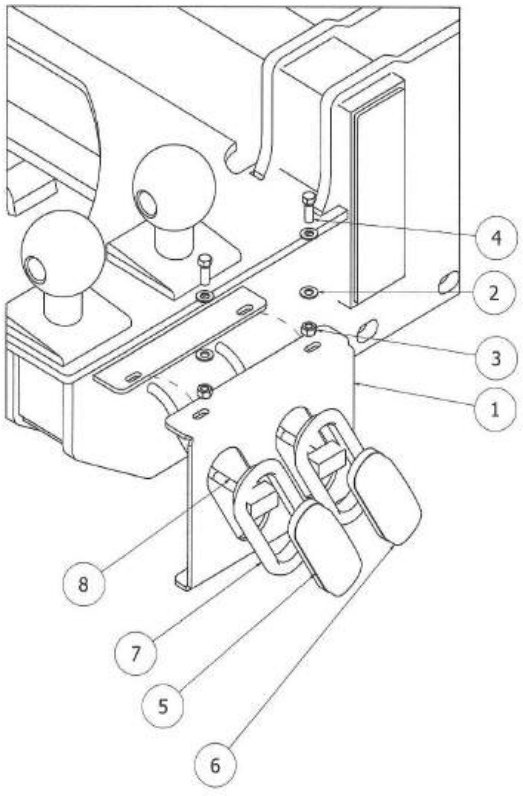


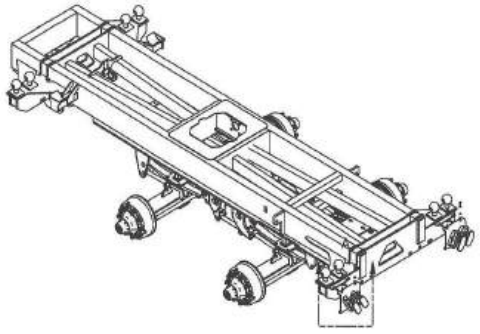


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	720005	LADDER
2	2	732023	LADDER LOCKING LINKAGE
3	2	732022	LADDER LINKAGE
4	1	733009-1	LADDER LATCH
5	3	530008	Flat Washer 1/2"
6	2	520002	Hex Bolt 1/2"-13 x 1.5"
7	3	520014	1/2"-13 Nut
8	12	530227	Flat Washer 5/8"
9	6	520010	5/8"-11 Nut
10	2	510160	Hex Bolt GR5 5/8"-11 x 1.75"
11	4	510161	Hex Bolt GR5 5/8"-11 x 2"
12	1	510832	Hex Bolt GR5 1/2"-13 x 2"

DRAWN: Will Attwood	28/07/2014		
CHECKED			
QA		TITLE: GENERIC LADDER TO TUB ASSEMBLY	
MFG			
APPROVED			
		SIZE: C	DWG NO: Ladder to Tub
		SCALE	SHEET 1 OF 1

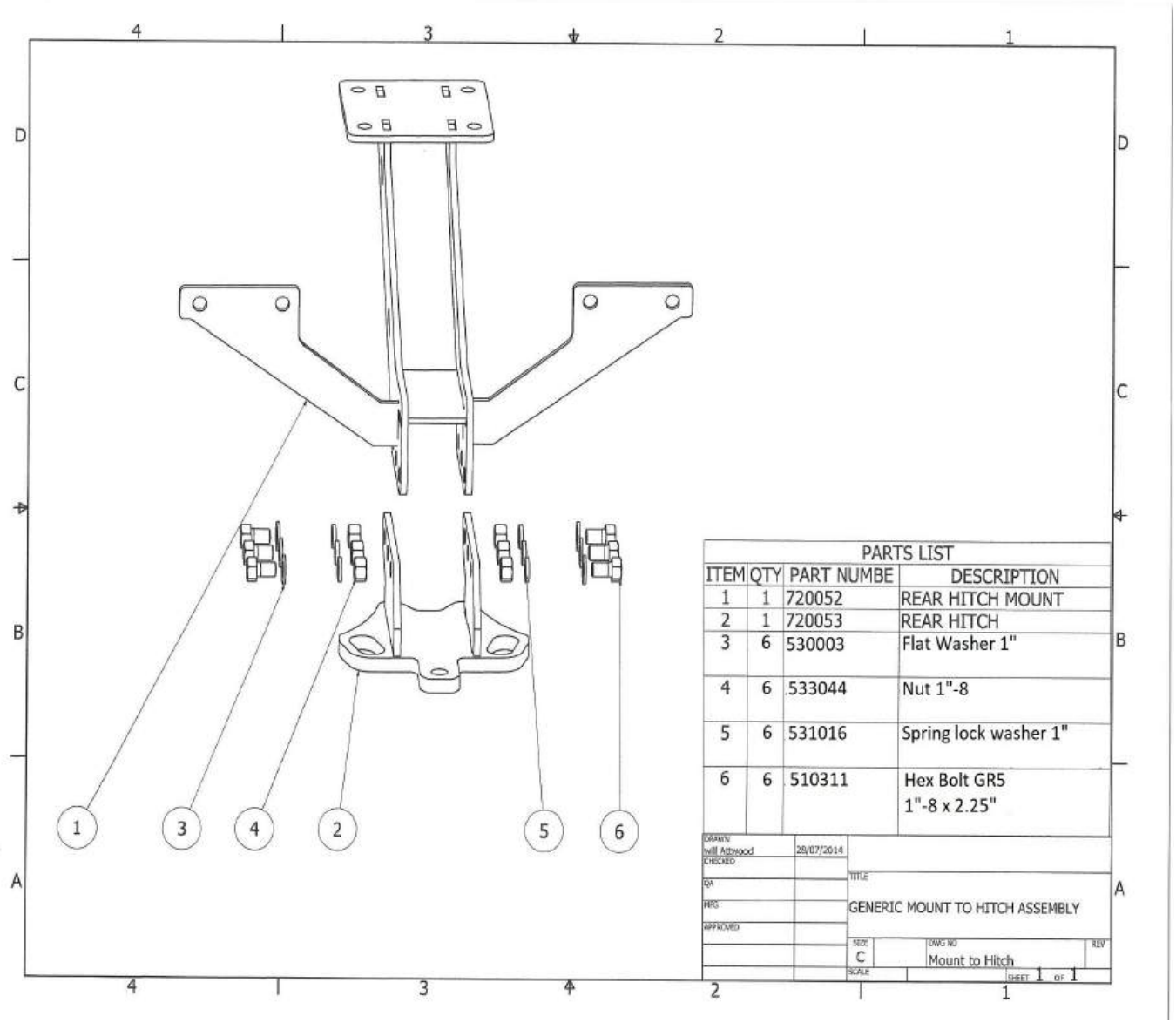
DETAIL A
SCALE 1 / 3





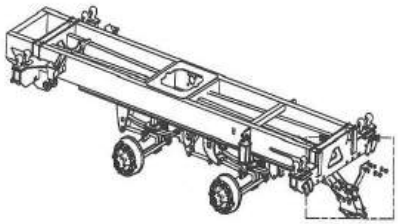
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	731031	LIGHT MOUNT
2	8	530007	Flat Washer 7/16"
3	4	533024	7/16" Nut
4	4	510720	Hex Bolt GR5 7/16"-14 x 1.25"
5	2	774618	RED LIGHT
6	2	774617	YELLOW LIGHT
7	4	490169	RUBBER GROMET
8	1	774043	WIRING HARNESS FOR DB40

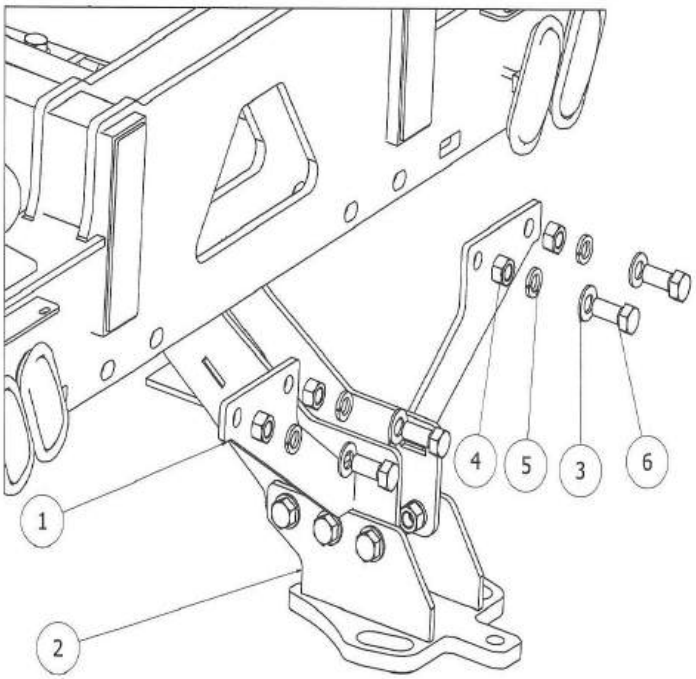
DRAWN: Will Attwood	28/07/2014	
CHECKED		TITLE: GENERIC LIGHT BRACKET ASSEMBLY
QA		
MFG		
APPROVED		SIZE: C / DWG NO: Light Bracket / REV
		SCALE / SHEET 1 OF 1



PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
1	1	720052	REAR HITCH MOUNT
2	1	720053	REAR HITCH
3	6	530003	Flat Washer 1"
4	6	533044	Nut 1"-8
5	6	531016	Spring lock washer 1"
6	6	510311	Hex Bolt GR5 1"-8 x 2.25"

DRAWN: will Attwood	28/07/2014	
CHECKED		
QA		TITLE: GENERIC MOUNT TO HITCH ASSEMBLY
MFG		
APPROVED		SIZE: C; DWG NO: Mount to Hitch; REV
		SCALE; SHEET 1 OF 1

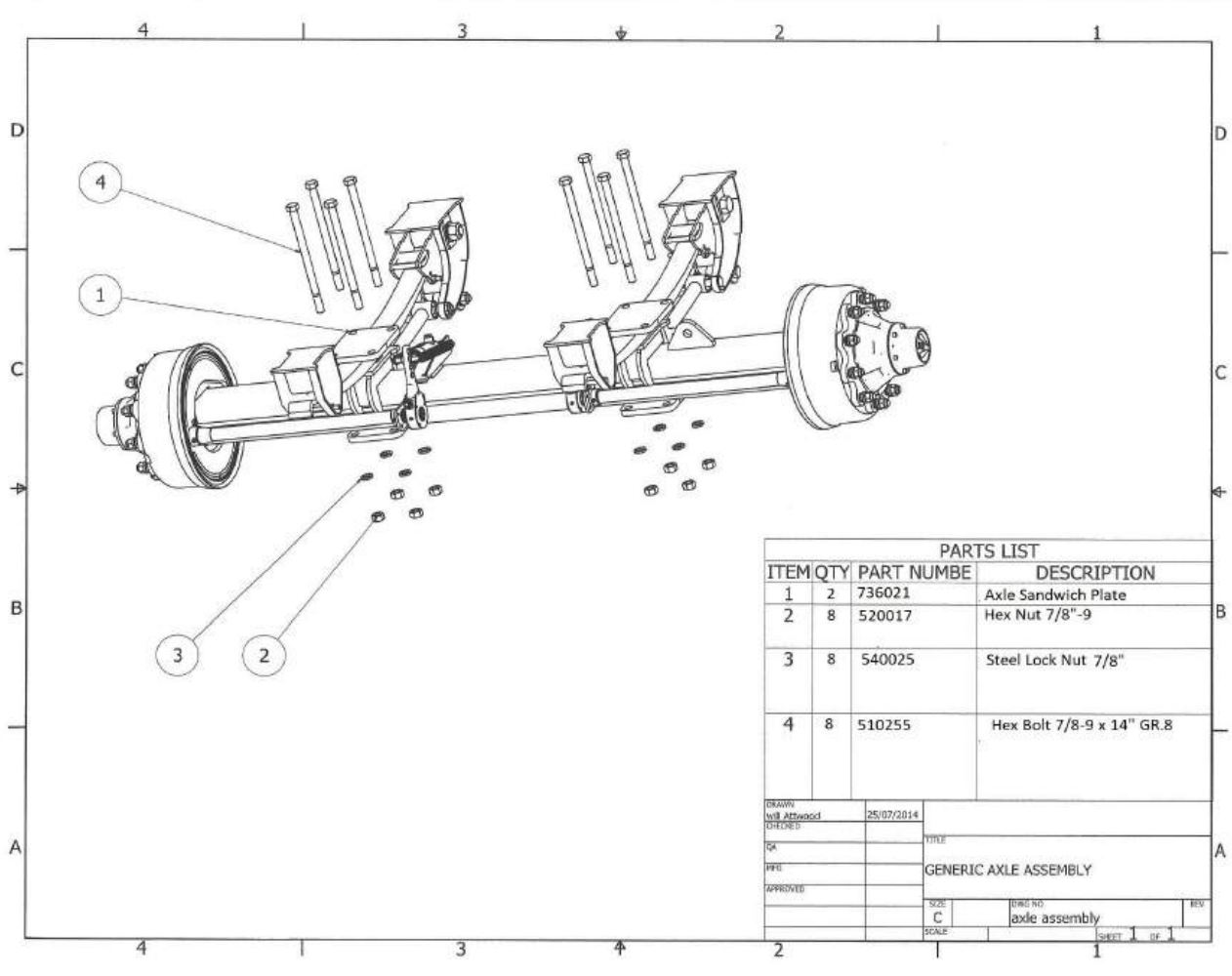




DETAIL A
SCALE 1 / 4

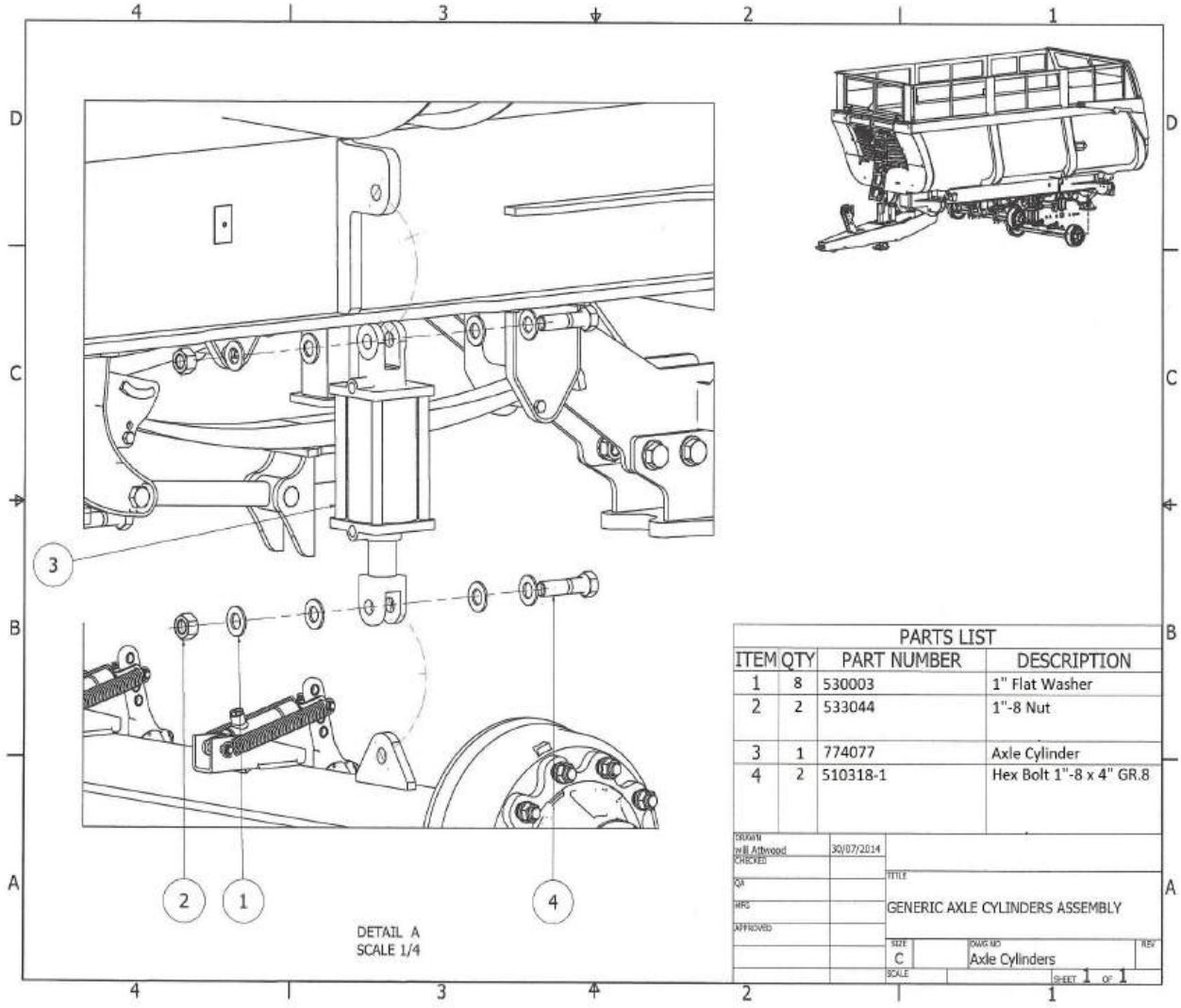
PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
1	1	720052	REAR HITCH MOUNT
2	1	720053	REAR HITCH
3	4	530003	1" Flat Washer
4	4	533044	Nut 1"-8
5	4	530123	Lock Washer 1"
6	4	510312	Hex Bolt GR5 1"-8 x 2.5"

DRAWN: will Attwood	28/07/2014	
CHECKED		TITLE: GENERIC REAR HITCH TO FRAME ASSEMBLY 1
QA		
MFG		
APPROVED		SIZE: C
		DWG NO: Rear hitch to frame 1
		REV
		SCALE
		SHEET 1 OF 1



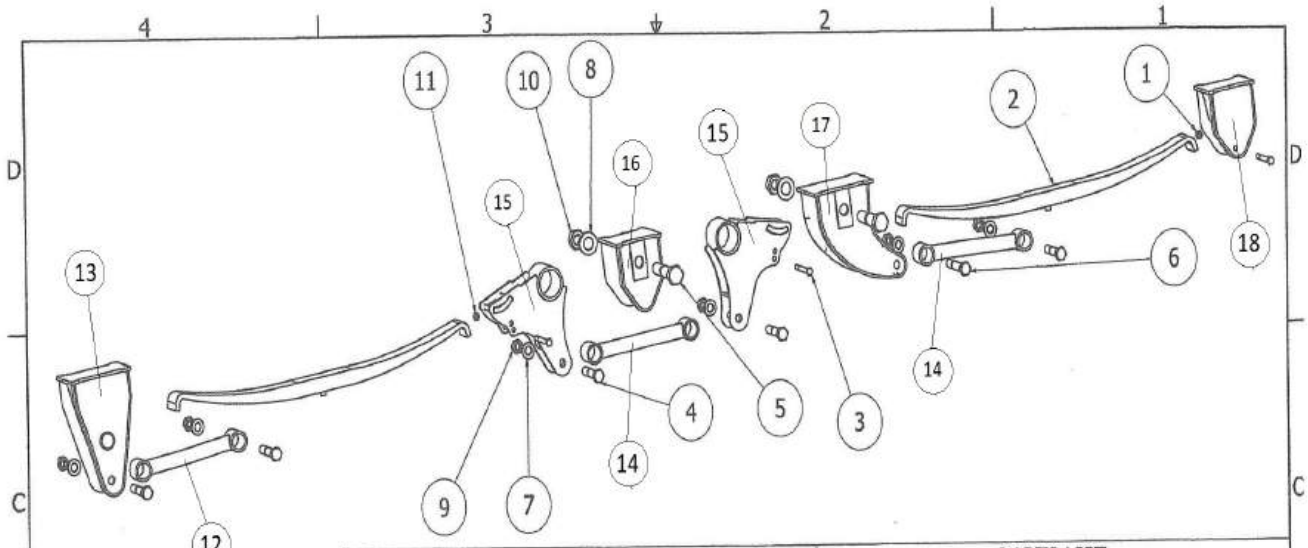
PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
1	2	736021	Axle Sandwich Plate
2	8	520017	Hex Nut 7/8"-9
3	8	540025	Steel Lock Nut 7/8"
4	8	510255	Hex Bolt 7/8-9 x 14" GR.8

DRAWN: Will Attwood	25/07/2014		
CHECKED		TITLE: GENERIC AXLE ASSEMBLY	
QA			
MFG			
APPROVED		SIZE: C	DWG NO: axle assembly
		SCALE	SHEET 1 OF 1



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	8	530003	1" Flat Washer
2	2	533044	1"-8 Nut
3	1	774077	Axle Cylinder
4	2	510318-1	Hex Bolt 1"-8 x 4" GR.8

DRAWN: Will Attwood	30/07/2014	
CHECKED		
QA		TITLE: GENERIC AXLE CYLINDERS ASSEMBLY
MFG		
APPROVED		
		SIZE: C — DWG NO: Axle Cylinders — REV
		SCALE — SHEET 1 OF 1



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
7	6	530231	Washer 7/8"
8	2	530235	Washer 1 1/4"
9	6	520017	Hex Nut 7/8"-9
10	2	520020	Hex Nut 1 1/4"-7
12	1	746003	14" Rigid Torque Rod
13	1	746000	Front Hanger
14	2	746005	14.375 Rigid Torque Rod
15	2	746002	Equalizer
16	1	746022	Front Equalizer Hanger
17	1	746023	Rear Equalizer Hanger
18	1	746001	Rear Hanger

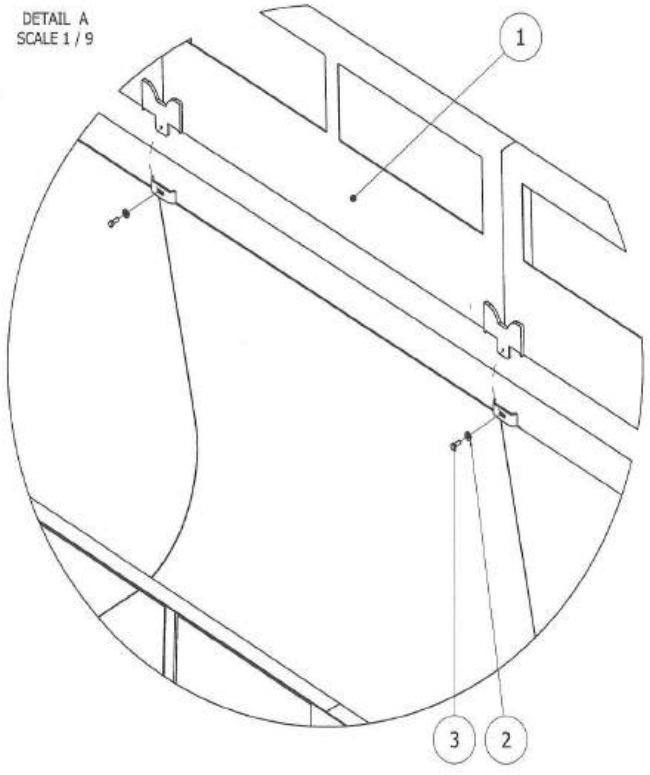
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	521014	1/2"-13 Steel Lock Nut
2	2	774033	TRA 1150 Single Leaf Spring
3	2	510147	Hex Bolt 1/2"-13 x 5"
4	4	510242	Hex Bolt 7/8"-9 x 5"
5	2	510361	Hex Bolt 1 1/4"-7 x7"
6	2	510244	Hex Bolt 7/8"-9 x 6"

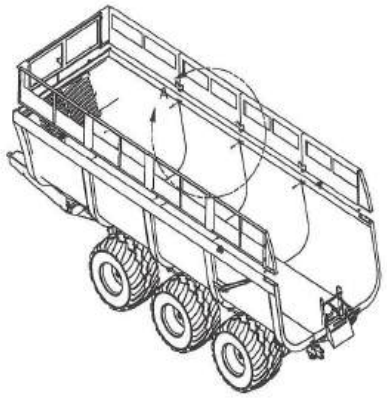
DRAWN	will Attwood	29/07/2014
CHECKED		
QA		
PPG		
APPROVED		

TITLE: COMPLETE SUSPENSION ASSEMBLY

SIZE: C | DWG NO: 710004 Complete Suspension Assemb | REV

SCALE | SHEET 1 OF 1





PARTS LIST			
ITEM	QTY	PART NUMBE	DESCRIPTION
1	1	720016	Extension, Right
2	14	530008	Washer 1/2" Flat
3	6	500196	Hex Bolt 1/2-13 x 1.25"

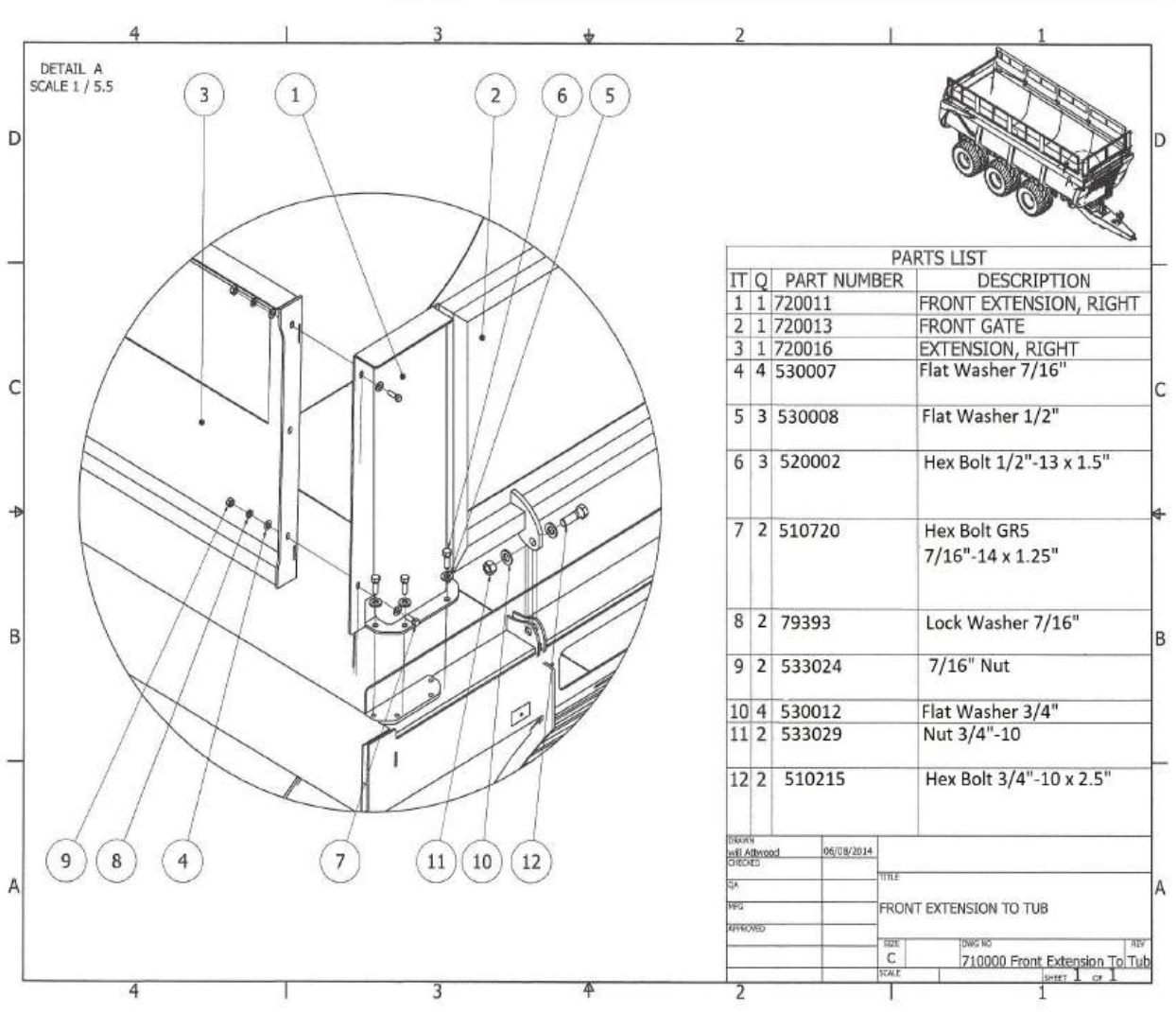
DRAWN	Will Attwood	05/08/2014
CHECKED		
QA		
MFG		
APPROVED		

TITLE: EXTENSION TO TUB

SIZE: C | DWG NO: 710000 Extension to Tub | REV:

SCALE: | SHEET 1 OF 1

*THE LEFT EXTENSION PART NUMBER IS 720017

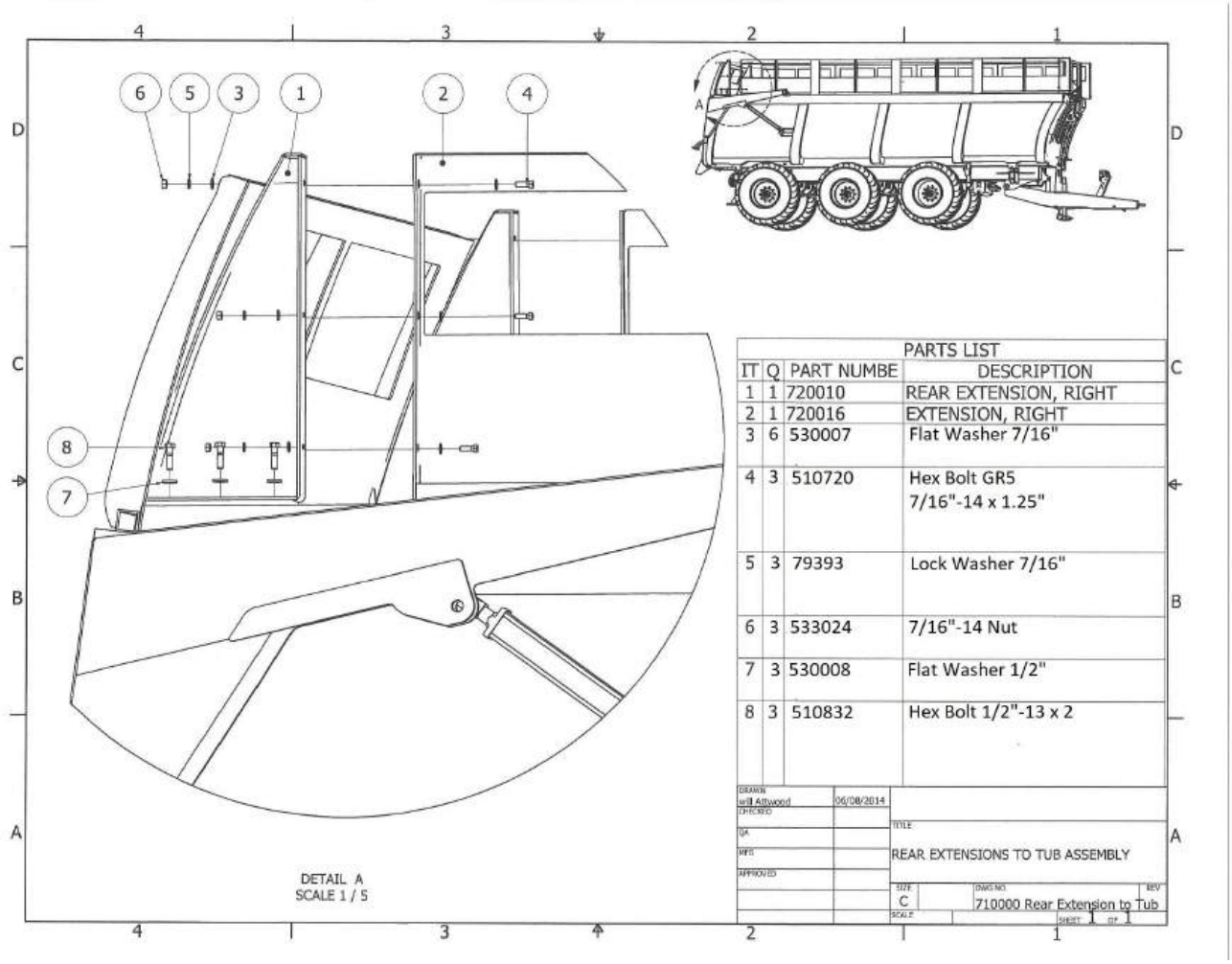


PARTS LIST

IT	Q	PART NUMBER	DESCRIPTION
1	1	720011	FRONT EXTENSION, RIGHT
2	1	720013	FRONT GATE
3	1	720016	EXTENSION, RIGHT
4	4	530007	Flat Washer 7/16"
5	3	530008	Flat Washer 1/2"
6	3	520002	Hex Bolt 1/2"-13 x 1.5"
7	2	510720	Hex Bolt GR5 7/16"-14 x 1.25"
8	2	79393	Lock Washer 7/16"
9	2	533024	7/16" Nut
10	4	530012	Flat Washer 3/4"
11	2	533029	Nut 3/4"-10
12	2	510215	Hex Bolt 3/4"-10 x 2.5"

DRAWN: Will Attwood 06/08/2014
CHECKED
QA
MFG
APPROVED

TITLE: FRONT EXTENSION TO TUB
SIZE: C
DWG NO: 710000 Front Extension To Tub
REV
SCALE
SHEET 1 OF 1



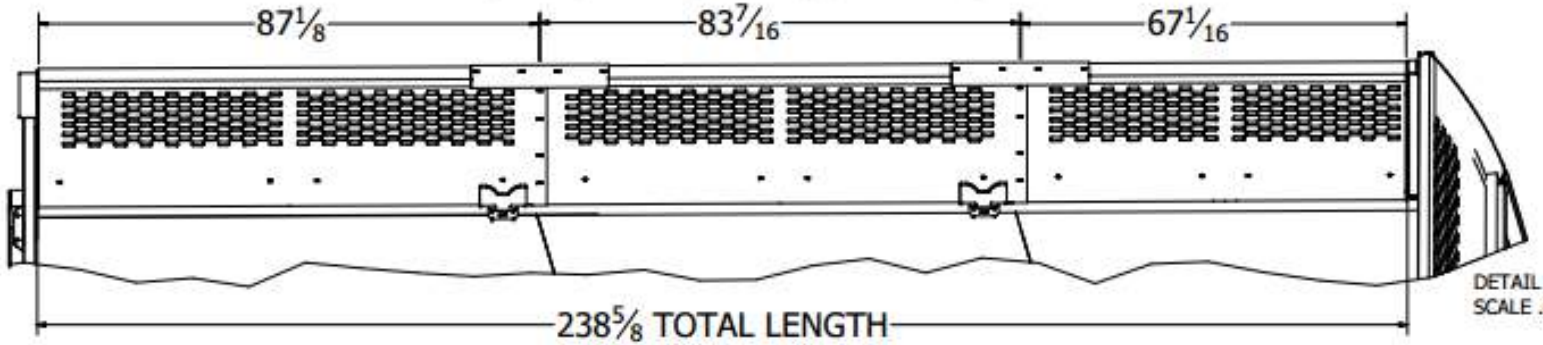
PARTS LIST			
IT	Q	PART NUMBE	DESCRIPTION
1	1	720010	REAR EXTENSION, RIGHT
2	1	720016	EXTENSION, RIGHT
3	6	530007	Flat Washer 7/16"
4	3	510720	Hex Bolt GR5 7/16"-14 x 1.25"
5	3	79393	Lock Washer 7/16"
6	3	533024	7/16"-14 Nut
7	3	530008	Flat Washer 1/2"
8	3	510832	Hex Bolt 1/2"-13 x 2

DRAWN: will Attwood 06/08/2014
CHECKED
QA
MFG
APPROVED
TITLE: REAR EXTENSIONS TO TUB ASSEMBLY
SIZE: C
DWG NO: 710000 Rear Extension to Tub
REV
SCALE
SHEET 1 OF 1

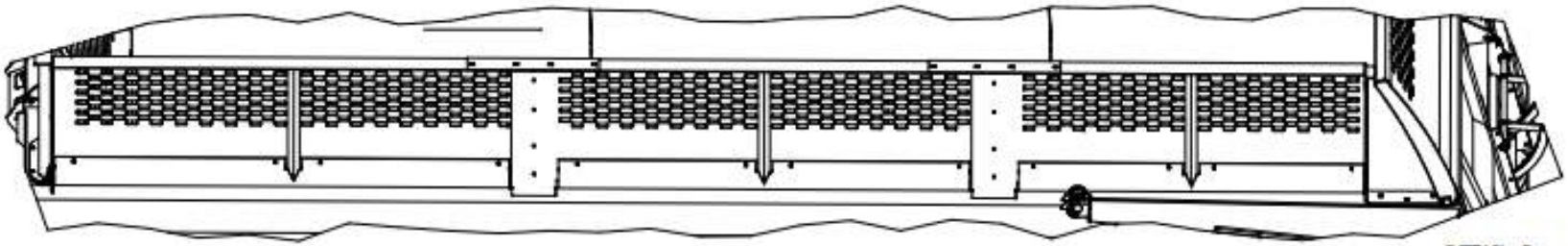
FRONT

TOP ANGLE IRON MEASUREMENTS

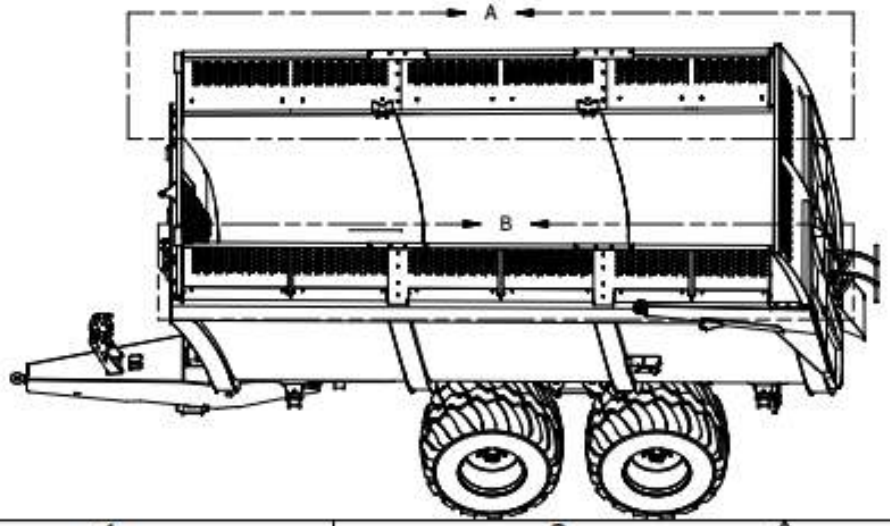
REAR



DETAIL A
SCALE .07

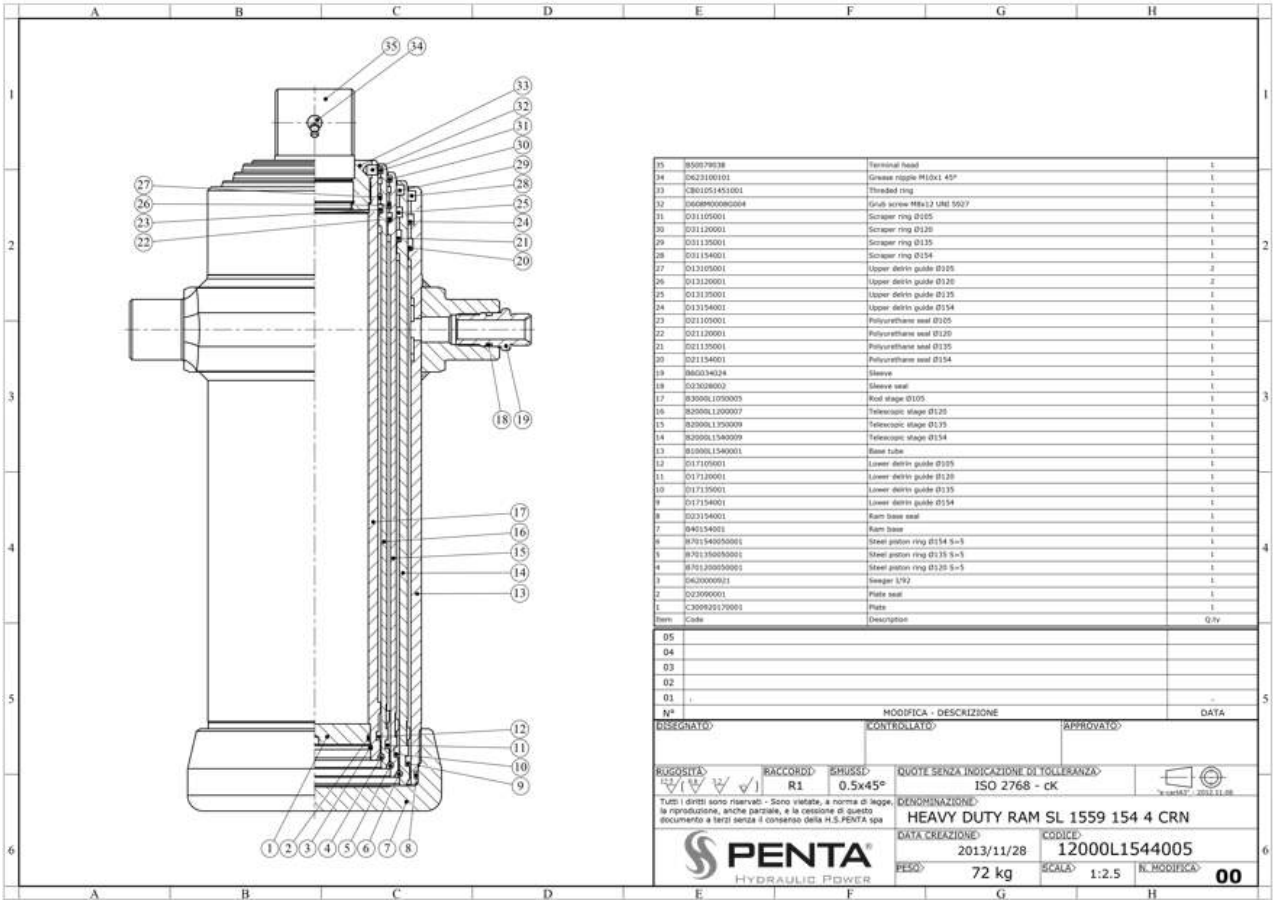


DETAIL B
SCALE .07



DRAWN: Matt Batterink	04/06/2015	
CHECKED:		
QA:		TITLE: DB40 EXTENSION LAYOUT
MFG:		
APPROVED:		
		SIZE: C — DWG NO — REV
		SCALE — SHEET 1 OF 1

14DBP-001



Item	Code	Description	Q.ty
35	850079038	Terminal head	1
34	D623100101	Grease nipple M10x1 45°	1
33	CB0105145 1001	Threaded ring	1
32	D608M0008G004	Grub screw M8x12 UNI 5927	1
31	D31105001	Scraper ring Ø105	1
30	D31120001	Scraper ring Ø120	1
29	D31135001	Scraper ring Ø135	1
28	D31154001	Scraper ring Ø154	1
27	D13105001	Upper delrin guide Ø105	2
26	D13120001	Upper delrin guide Ø120	2
25	D13135001	Upper delrin guide Ø135	1
24	D13154001	Upper delrin guide Ø154	1
23	D21105001	Polyurethane seal Ø105	1
22	D21120001	Polyurethane seal Ø120	1
21	D21135001	Polyurethane seal Ø135	1
20	D21154001	Polyurethane seal Ø154	1
19	B6G034024	Sleeve	1
18	D23028002	Sleeve seal	1
17	B3000L1050005	Rod stage Ø105	1
16	B2000L1200007	Telescopic stage Ø120	1
15	B2000L1350009	Telescopic stage Ø135	1
14	B2000L1540009	Telescopic stage Ø154	1
13	B1000L1540001	Base tube	1
12	D17105001	Lower delrin guide Ø105	1
11	D17120001	Lower delrin guide Ø120	1
10	D17135001	Lower delrin guide Ø135	1
9	D17154001	Lower delrin guide Ø154	1
8	D23154001	Ram base seal	1
7	B40154001	Ram base	1
6	B701540050001	Steel piston ring Ø154 S=5	1
5	B701350050001	Steel piston ring Ø135 S=5	1
4	B701200050001	Steel piston ring Ø120 S=5	1
3	D620000921	Swager 1/92	1
2	D23090001	Plate seal	1
1	C300920170001	Plate	1

N°	MODIFICA - DESCRIZIONE	DATA
05		
04		
03		
02		
01	-	-

DISEGNATO | CONTROLLATO | APPROVATO

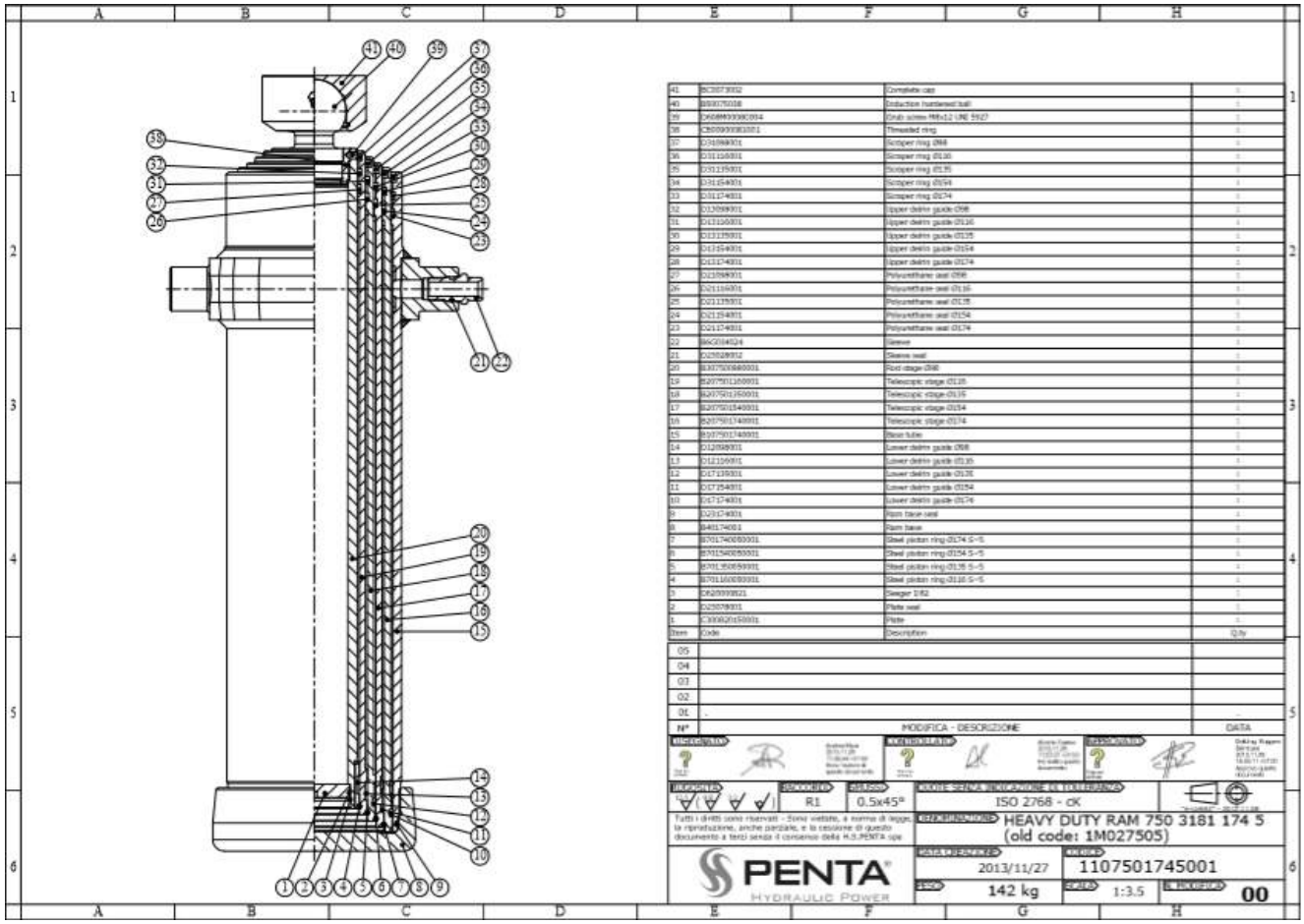
RUGOSITÀ | RACCORDI: R1 | SMUSSI: 0.5x45° | QUOTE SENZA INDICAZIONE DI TOLLERANZA: ISO 2768 - cK

DENOMINAZIONE: HEAVY DUTY RAM SL 1559 154 4 CRN

PENTA HYDRAULIC POWER

DATA CREAZIONE: 2013/11/28 | CODICE: 12000L1544005

PESO: 72 kg | SCALA: 1:2.5 | N. MODIFICA: 00



Item	Code	Description	Q.ty
41	BC0073002	Complete cap	1
40	B0007S018	Induction hardened ball	1
39	D608M03060054	Grub screw M8x12 UNI 5927	1
38	CB0090080001	Threaded ring	1
37	D3109B001	Scraper ring Ø68	1
36	D3116B001	Scraper ring Ø130	1
35	D3113S001	Scraper ring Ø135	1
34	D3154B001	Scraper ring Ø154	1
33	D3117A001	Scraper ring Ø174	1
32	D1209B001	Upper distrin guide Ø68	1
31	D1316B001	Upper distrin guide Ø130	1
30	D1313S001	Upper distrin guide Ø135	1
29	D1354B001	Upper distrin guide Ø154	1
28	D1317A001	Upper distrin guide Ø174	1
27	D2209B001	Polyurethane seal Ø68	1
26	D2116B001	Polyurethane seal Ø130	1
25	D2113S001	Polyurethane seal Ø135	1
24	D2154B001	Polyurethane seal Ø154	1
23	D2117A001	Polyurethane seal Ø174	1
22	B6G2004G24	Sleeve	1
21	D2502B002	Sleeve seal	1
20	B3075008B0001	Rod stage Ø68	1
19	B2075011B0001	Telescopic stage Ø130	1
18	B2075013S0001	Telescopic stage Ø135	1
17	B2075015B0001	Telescopic stage Ø154	1
16	B2075017A0001	Telescopic stage Ø174	1
15	B1075017A0001	Base tube	1
14	D1209B001	Lower distrin guide Ø68	1
13	D1211B001	Lower distrin guide Ø130	1
12	D1713S001	Lower distrin guide Ø135	1
11	D1715A001	Lower distrin guide Ø154	1
10	D1717A001	Lower distrin guide Ø174	1
9	D2312A001	Rom base seal	1
8	B4017A001	Rom base	1
7	B7017A00B0001	Steel piston ring Ø174 S=5	1
6	B7015A00B0001	Steel piston ring Ø154 S=5	1
5	B7013S00B0001	Steel piston ring Ø135 S=5	1
4	B7011B00B0001	Steel piston ring Ø118 S=5	1
3	D620B0B021	Seeger D62	1
2	D2507B001	Plate seal	1
1	C3006Q01B0001	Plate	1

N°	MODIFICA - DESCRIZIONE	DATA
05		
04		
03		
02		
01		

DISEGNATO · VERIFICATO · APPROVATO

TRATTAMENTO: — · RICOTTO: R1 · SMUSSI: 0.5x45°

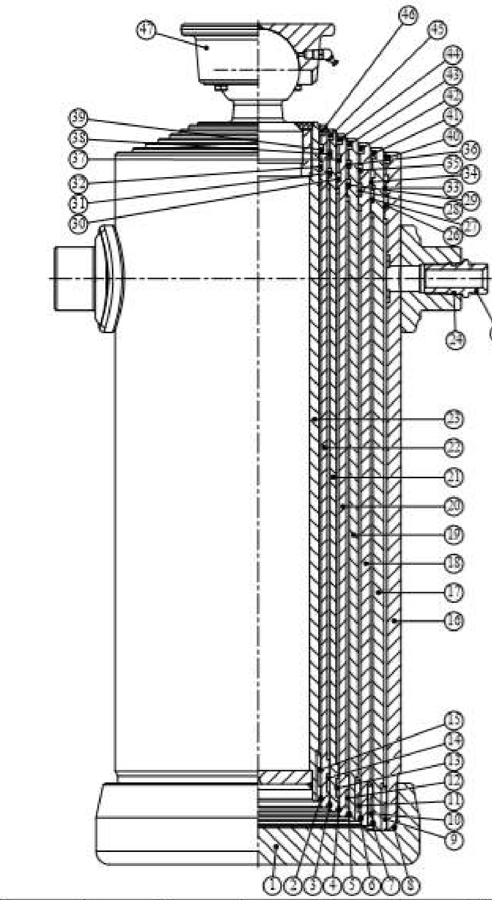
QUOTE SENZA INDICAZIONE DI TOLLERANZA: ISO 2768 - cK

DENOMINAZIONE: HEAVY DUTY RAM 750 3181 174 5 (old code: 1M027505)

PENTA HYDRAULIC POWER

DATA / REVISIONE: 2013/11/27 · CODICE: 1107501745001

PESO: 142 kg · SCALA: 1:3.5 · N. INCREMENTO: 00



Item	Code	Description	Quantity
47	BC0092001	Complete cap	1
46	D31135001	Scraper ring Ø135	1
45	D31154001	Scraper ring Ø154	1
44	D31174001	Scraper ring Ø174	1
43	D31196001	Scraper ring Ø196	1
42	D31221001	Scraper ring Ø221	1
41	D31249001	Scraper ring Ø249	1
40	D31279001	Scraper ring Ø279	1
39	D13135001	Upper delrin guide Ø135	1
38	D13154001	Upper delrin guide Ø154	1
37	D13174001	Upper delrin guide Ø174	1
36	D13196001	Upper delrin guide Ø196	1
35	D13221001	Upper delrin guide Ø221	1
34	D13249001	Upper delrin guide Ø249	1
33	D13279001	Upper delrin guide Ø279	1
32	D21135001	Polyurethane seal Ø135	1
31	D21154001	Polyurethane seal Ø154	1
30	D21174001	Polyurethane seal Ø174	1
29	D21196001	Polyurethane seal Ø196	1
28	D21221001	Polyurethane seal Ø221	1
27	D21249001	Polyurethane seal Ø249	1
26	D21279001	Polyurethane seal Ø279	1
25	BAG100314	Sleeve	1
24	D23034001	Sleeve seal	1
23	B207901350087	Rod stage Ø135	1
22	B207901540011	Telescopic stage Ø154	1
21	B207901740087	Telescopic stage Ø174	1
20	B207901960011	Telescopic stage Ø196	1
19	B207902210008	Telescopic stage Ø221.5	1
18	B207902490087	Telescopic stage Ø249	1
17	B207902790084	Telescopic stage Ø279	1
16	B107902790081	Base tube	1
15	D12135001	Lower delrin guide Ø135	1
14	D12154001	Lower delrin guide Ø154	1
13	D12174001	Lower delrin guide Ø174	1
12	D12196001	Lower delrin guide Ø196	1
11	D12221001	Lower delrin guide Ø221	1
10	D12249001	Lower delrin guide Ø249	1
9	D12279001	Lower delrin guide Ø279	1
8	D22295001	O-Ring Ø295x6	1
7	B701540050001	Steel piston ring Ø154 S=5	1
6	B701740050001	Steel piston ring Ø174 S=5	1
5	B701960050001	Steel piston ring Ø196 S=5	1
4	B702210050001	Steel piston ring Ø221 S=5	1
3	B702490050001	Steel piston ring Ø249 S=5	1
2	B702790050001	Steel piston ring Ø279 S=5	1
1	B40279001	Ram base	1

N°	MODIFICA - DESCRIZIONE	DATA
05		
04		
03		
02		
01	..	..

DISEGNATO | CONTROLLATO | APPROVATO

RUGOSITA | RACCORDI: R1 | SMUSSI: 0.5x45° | QUOTE SENZA INDICAZIONE DI TOLLERANZA: ISO 2768 - cK

DENOMINAZIONE: HEAVY DUTY RAM 750 4445 279 7 CRN (old code: 1M37507C)

PENTA® HYDRAULIC POWER

DATA CREAZIONE: 2013/07/31 | CODICE: 1107502797002

PESO: 380 kg | SCALA: 1:3.5 | N. MODIFICA: 00

M 02 · S 02
1/2

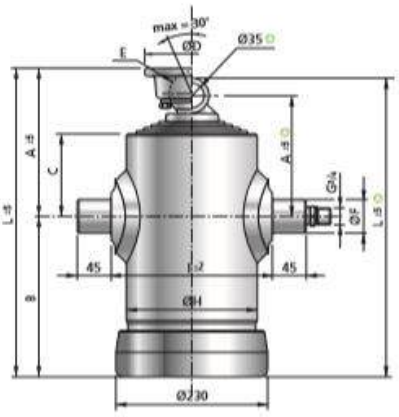
Accessori
Accessories
Accessoires
Zubehörin
Accesorios

SUPPORTO CILINDRO CYLINDER SUPPORT PALIER VERIN SOPORTE CILINDRO

SUPPORTO BILANCIERE CRADLE SUPPORT BALANCIER VERIN SOPORTE CUNA

BILANCIERE CRADLE BALANCIER CUNA

Vedi pagine 34 e 35 per dettagli
See pages 34-35 for details
Voyez pages 34-35 pour détails
Siehe Seiten 34-35 für Informationen
Ver hojas 34-35 para informaciones



M 02 · S 02

TIPO TYPE TYP TIPO	VOLUME CILINDRO CYLINDER VOLUME VOLUMEN CILINDRO	DIAMETRO - DIAMETER - DURCHMESSER - DIAMETRO [mm] I	II	III	IV	V	VI	VII	VIII	PESO WEIGHT POIDS GEWICHT PESO [kg]
M 02	7	124	154	135	116	98	79	63		134
	6	124	154	135	116	98	79			163
	5	124	154	135	116	98				198
	4	124	154	135	116					235
S 02	8	124	154	135	120	105	90	75	60	138
	7	124	154	135	120	105	90	75		152
	6	124	154	135	120	105	90			176
	5	124	154	135	120	105				202
	Con slitta 0958 - With ball 0958 - Avec boule 0958 - Esp 0958 - Esfera 0958									176

M 02 · S 02 DETTAGLI TECNICI TECHNICAL DATA DETAIL TECHNIQUES TECHNISCHEDATEN DETALLES TECNICOS

ART. NUOVO NEW MODEL NOUVELLE DESCR. NEUE BEZEICHNUNG DESCRIPCION NUEVA	ART. VECCHIO OLD MODEL ANCIENNE DESCR. ALTE BEZ. DESCR. ANTIGUA	CODICE CODE CODE BESTELL-Nr. CODIGO	[mm]	[kg]	[cm³]	[bar]	[bar]	L	A	B	C	D [mm]	E	F	H	I
750 4455 174 7	M027507	1107501747001	7	4495	965	52.6	200	19.5	894	255	639	133	150	73	50	198	238
750 3858 174 6	M027506	1107501746001	6	3858	955	50.7	200	21.7	887	248	639	133	150	73	50	198	238
750 3181 174 5	M027505	1107501745001	5	3581	842	47.6	200	28.2	880	241	639	133	150	73	50	198	238
750 2544 174 4	M027504	1107501744001	4	2544	538	42.8	200	32.8	901	262	639	133	130	92	50	198	238
○ 750 4455 174 7	M027507/0	1107501747003	7	4495	962	52.6	200	19.5	910	244	639	133			50	198	238
○ 750 3858 174 6	M027506/0	1107501746003	6	3858	952	50.7	200	21.7	885	218	639	133			50	198	238
670 3895 174 7	M026707	1106701747001	7	3895	340	46.0	200	19.5	814	255	559	133	150	73	50	198	238
670 3338 174 6	M026706	1106701746001	6	3338	333	44.4	200	21.7	807	248	559	133	150	73	50	198	238
670 2781 174 5	M026705	1106701745001	5	2781	320	41.6	200	28.2	800	241	559	133	150	73	50	198	238
○ 670 3895 174 7	M026707/0	1106701747003	7	3895	339	46.0	200	19.5	810	244	559	133			50	198	238
○ 670 3338 174 6	M026706/0	1106701746003	6	3338	332	44.4	200	21.7	805	218	559	133			50	198	238
S565 3689 174 8	S025658	1205651748001	8	3689	375	41.5	200	18.7	707	253	454	133	130	58	50	198	238
S565 3225 174 7	S025657	1205651747001	7	3225	317	40.2	200	22.1	709	255	454	133	150	73	50	198	238
S565 2760 174 6	S025656	1205651746001	6	2760	314	38.1	200	25.6	702	248	454	133	150	73	50	198	238
S565 2296 174 5	S025655	1205651745001	5	2296	311	35.3	200	29.4	695	241	454	133	150	73	50	198	238
SL 3129 174 8	SL028	1200DL1748001	8	3129	112	35.3	200	18.7	617	238	399	118	130	58	50	198	238
SL 2735 174 7	SL027	1200DL1747001	7	2735	106	34.0	200	22.1	619	240	399	118	150	73	50	198	238
SL 2340 174 6	SL026	1200DL1746001	6	2340	103	32.3	200	25.6	612	233	399	118	150	73	50	198	238
SL 1946 174 5	SL025	1200DL1745001	5	1946	100	29.8	200	29.4	625	226	399	118	150	73	50	198	238
S670 2929 174 8	S026708	1206701748001	8	2929	108	32.9	200	18.7	612	238	374	118	130	58	50	198	238
S670 2560 174 7	S026707	1206701747001	7	2560	102	31.8	200	22.1	614	240	374	118	150	73	50	198	238
S670 2190 174 6	S026706	1206701746001	6	2190	99	30.2	200	25.6	607	233	374	118	150	73	50	198	238
S670 1821 174 5	S026705	1206701745001	5	1821	97	27.9	200	29.4	600	226	374	118	150	73	50	198	238
SA 2480 174 8	SA028	1200DA1748001	8	2480	97	27.9	200	18.7	546	237	319	118	130	58	50	198	238
SA 2175 174 7	SA027	1200DA1747001	7	2175	92	27.0	200	22.1	548	239	319	118	150	73	50	198	238
SA 1860 174 6	SA026	1200DA1746001	6	1860	90	25.6	200	25.6	551	232	319	118	150	73	50	198	238
SA 1546 174 5	SA025	1200DA1745001	5	1546	88	23.6	200	29.4	544	225	319	118	150	73	50	198	238
SM 2320 174 8	SM028	1200DM1748001	8	2320	94	26.1	200	18.7	526	232	284	133	130	58	50	198	238
SM 2035 174 7	SM027	1200DM1747001	7	2035	89	25.3	200	22.1	528	234	284	133	150	73	50	198	238
SM 1740 174 6	SM026	1200DM1746001	6	1740	87	24.0	200	25.6	521	227	284	133	150	73	50	198	238


PENTA