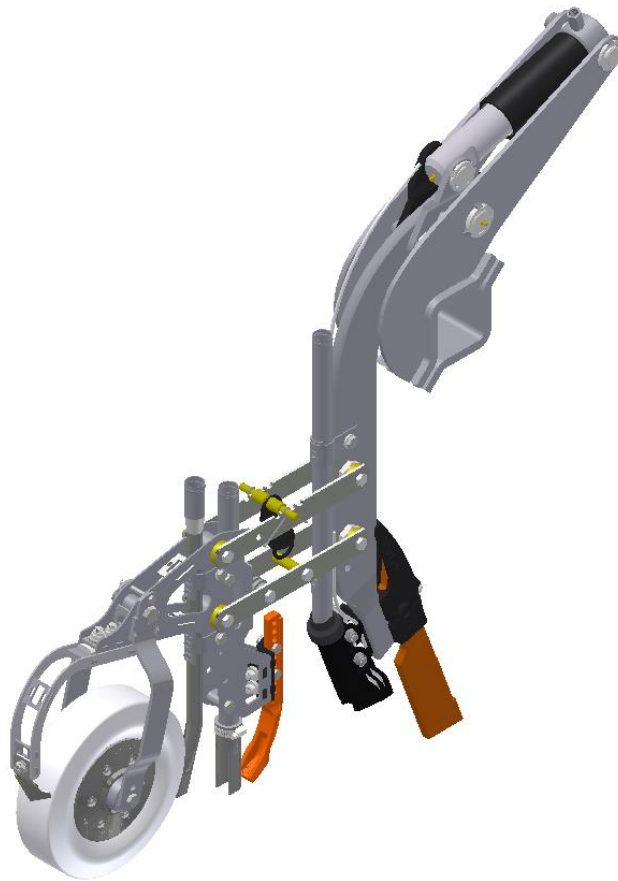


AUSPLOW

Australian designed and manufactured



DBS TINE SPARE PARTS MANUAL

VERSION 3.6

#00934

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History

Ausplow introduced what is now known as the A Series DBS in 1995. The A Series was released with the Version 1 Tine.

In 1998 the S Series DBS was introduced by Ausplow along with the Version 2 Tine.

During the year 2000 Ausplow started production of the E Series DBS and the N Series DBS whilst still producing the S Series.

2001 saw the cessation of S Series production.

E Series & N Series production ceased in December 2006.

The introduction of D Series in January 2007 was accompanied by the introduction of the Version 3 tine assembly.

March 2009 saw the introduction of 1 ¼" wing lift pins and upgraded inner wings to the D260-70.

The D300-61 was upgraded to 1 ¼" wing lift pins with upgraded inner wings in May 2009.

June 2009 saw introduction of 1 ¼" wing lift pins to the remainder of the DBS D Series product range.

In 2015 the Pro-D ground tools were supplied with all new DBS machines. The Pro-D ground tools can be retro fitted to V3 Tine assemblies and also the V2 Tine assemblies when fitted with the 32mm stainless fertiliser tubes.

In 2016 a new rib assembly was introduced to all new machines and together with the Pro-D ground tools became the V4 Tine assembly. The V4 tine assembly had an improved scraper arm and press wheel arms which can be used on the full range of Ausplow press wheels.

In 2017 the Paired Row Seed Boot was introduced as an optional fitment, providing 7" & 3" spacings on 260 machines and 9" & 3" spacings on 300 machines. The 135mm Press Wheel, V Wheel Scraper and the 110mm Closing Tool were also introduced.

In 2017 Friction Flow liquid delivery system was introduced to replace the nozzle discs, stainless steel tubes and black nylon tube. See Ausseeder Spare Parts manual for details.

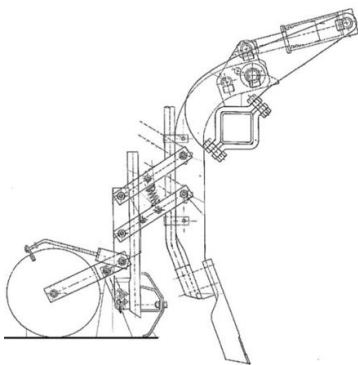
In 2018 the one piece 2 bolt Pro-D Closing Tool was introduced along with a new Closing Tool adaptor. New paired row 2 bolt tool was also changed to utilise the same new CT Adaptor.

In 2020 a new improved scraper arm was introduced and 110mm and 135mm rounded scrapers added.

In 2022 a new Fertiliser Shielded Boot was introduced, replacing the Fert boot, Shield and Strap. Also the Press Wheel arm and Rib contained an additional bolt hole.

1995 - DBS001-089

Version 1



1998 - 'S', 'N' & 'E' Series

Version 2



2006 - 'D' Series

Version 3



2016 on - 'D' Series

Version 4



Information

This spare parts manual covers the Ausplow Auseeder DBS Tine Assembly and their ground engaging wear parts.

Throughout this manual some generic acronyms will be used:

ORB:	Obsolete Replaced By,
NLA:	No Longer Available,
BSN:	By Serial Number,
N/A:	Not Available or Not Applicable,
BSO:	By Special Order (extended lead times may apply),
NS:	Not Shown,
NSS:	Not Supplied Separately,
SS:	Stainless Steel,
OAH:	Over All Height,
OAL:	Over All Length.

Auseeder parts can be found in the appropriate Ausplow Auseeder Spare Parts Manual.

Liquid Kit components, including Tine Liquid Components, can be found in the Ausplow Auseeder Spare Parts Manuals.

Due to the age of some machines and Ausplow's policy of continuous improvement, a number of changes may have been made from the original build specification. It is advised that ALL parts be double checked where possible with the more detailed information provided within different areas of this manual.

Identifying features and dimensions are provided to assist with identification of components. Parts that are correctly supplied but don't fit due to the failure of an individual to use the identification methods provided may be subjected to a restocking fee.

Components that have been manufactured to a BSO requirement may not be eligible for return.

Ausplow reserves the right to change specification/s of components without notice.

Spare Parts Return Policy

Ausplow parts may only be returned by Ausplow Dealers under the following conditions:

- Provide a **copy of the Ausplow Sales Order/Tax invoice** which the goods were purchased on with the returned goods.
 - That way we know who they were from, when they were ordered and what Branch is to receive the credit.
- **List the part numbers and quantities** of the returned items.
- Provide a brief description of **why the goods are being returned**,
 - ie: incorrectly supplied, incorrectly ordered etc
 - This helps us identify if the restocking fee is applicable.

6 Davison Road, Cockburn Central WA 6164
P O Box 5010, South Lake WA 6964
Ph: (61 8) 9417 8877 Fax: (61 8) 9417 8878
ausplow@ausplow.com.au
www.ausplow.com.au

AUSPLOW FARMING SYSTEMS

AUSEEDER DBS - MULTISTREAM - EASITILL

TAX INVOICE

Ausplow Farming Systems Pty Ltd
as Trustee for
Ausplow Farming Systems Trust
ABN 57 168 859 933
Trading As:
Ausplow Farming Systems

Bill To

Deliver To

Number	
Date	
PO Number	
Cust Code	
Due Date	
Page	1

Product Code	Product Description	Qty	Price	Discount	Amount Excl GST
01132	Shank - Auseeder - Hyd Recoil Painted	2.00		20.00	
01287	Blade Assembly DBA29-130 9" Blade	40.00		20.00	
01288	Blade Assembly - DBA27-130 7" Blade	50.00		20.00	
Western Australia RETURNED X 20 INCORRECTLY ORDERED					
EFT DETAILS: BSB: 086-136 A/C#: 795 293 766			Sub-Total (Ex GST)		
Retention of Title: Title to the goods remains with Ausplow Farming Systems until payment. The goods must be kept separate from other goods received & marked as owned by Ausplow Farming Systems. Any moneys received for the sale of the goods must be held for the benefit of Ausplow Farming Systems & paid to Ausplow Farming Systems until the debt is paid in full. If the debtor fails to pay the debt Ausplow Farming Systems can enter the premises where the goods are located & seize those goods and sell them to recover the amount of debt still owing.			GST		
			Total (Inc GST)		

- The return freight is at the **Dealer's expense**.
- The returned items must be in **resalable condition**.
 - ie: in a clean, unused and undamaged condition
- A standard **20% restocking fee** on the Dealer Net Price applies.
- International orders and special orders are non-refundable.

- **Prior approval** of Ausplow General Management required for **any bulk returns.**

When all information is received, stock is counted and assessed as re-saleable, a credit note will be sent less the 20% restocking fee on the Dealer Net Price. No credit will be processed unless all the required information is received.

If more than a few items are to be returned, and if purchased more than 12 months ago, please **advise the Parts Section prior to returning these items.**

Procedure for Warranty Claims

- Contact the Ausplow Warranty Manager (Service Manager) initially.
- Send a completed Warranty Claim form (below) to our Warranty Department: warranty@ausplow.com.au
- If instructed by Service Manager, you may need to return parts claimed under warranty to Ausplow or request pictures of parts to be emailed.
- If approved an Ausplow Claim Reference Number will be assigned and a Warranty Sales order will be created at no charge and will advise when the order is ready.
- Where labour or subcontract cost are being claimed a separate Warranty Claim Form – Labour/Outsource (below) is to be submitted.

AUSPLOW Digging deep for every farmer.		Warranty Claim Form - Parts	
Ausplow Claim Reference # assigned by Ausplow			
Dealer Reference / Purchase Order #			
Dealer		Date of Claim	
Branch		Date of Failure	
Owner / Trading Name			
Serial #		Date of Sale	
		Model #	
* Claims will not be accepted if date of claim is more than 1 month after date of failure without prior approval			
NATURE OF FAILURE describe fully			
PROPOSED RECTIFICATION state procedures to be undertaken			
Claim for Parts Only			
QTY	PART #	DESCRIPTION	
FREIGHT INSTRUCTIONS			
DELIVERY ADDRESS			
COMPLETED BY DEALER (Full Name)			
REVIEWED BY AUSPLOW			
Ausplow use only			
Approved Yes / No		Supplier Notified Yes / No	
Procurement Notified Yes / No		Claim Reference	
Comments			

AUSPLOW Digging deep for every farmer.		Warranty Claim Form - Labour/Outsource	
Ausplow Claim Reference # assigned by Ausplow			
Dealer Reference / Purchase Order #			
Dealer		Date of Claim	
Branch		Date of Failure	
Owner / Trading Name			
Serial #		Date of Sale	
		Model #	
* Claims will not be accepted if date of claim is more than 1 month after date of failure without prior approval			
NATURE OF FAILURE describe fully			
PROPOSED RECTIFICATION state procedures to be undertaken			
Claim for Labour, Travel and Outsourced Items only			
LABOUR - Excluding Travel Time - Labour is not paid for travelling time			
TOTAL HOURS CLAIMED		AT \$100.00/HOUR	TOTAL CLAIMED
TRAVEL			
TOTAL KILOMETRES		AT \$1.00/KILOMETRE	TOTAL CLAIMED
OUTSOURCE LABOUR/MATERIALS CLAIMED (invoice copies must be forwarded)			
NAME	INVOICE #	DETAILS OF WORK	AMOUNT
TOTAL			\$ -
COMPLETED BY DEALER (Full Name)			
REVIEWED BY AUSPLOW			
Ausplow use only			
Approved Yes / No		Supplier Notified Yes / No	
Procurement Notified Yes / No		Claim Reference	
Comments			

1.0 General Information

Ground engaging wear parts are not covered under the Ausplow Parts Warranty.

AUSPLOW PARTS WARRANTY

Ausplow Farming System's parts warranty (hereafter referred to as Ausplow Parts Warranty) extends 90 days from the date of original retail sale and Ausplow Farming Systems will repair and / or replace parts, **except ground engaging components**, found to be defective in factory materials or workmanship under normal use and operation within Australia.

AUSPLOW TINE COMPONENT COMBINATIONS

The following outlines recommended combinations of tine components that can be used with the DBS Tine Assembly. Please note that the split seed boot can only be used with 60mm closing tools.

Press Wheel	Scraper	Closing Tool	Seed Boot
50mm	75mm Spear	30mm only	Single only
70mm	75mm Spear	30, 45, 60mm & Paired Row	Single. (Optional split)
90mm	110mm Spear	45, 60mm & Paired Row	Single. (Optional split)
90mm Rounded	90mm Curved	45, 60mm & Paired Row	Single. (Optional split)
110mm Rounded	110mm Curved	45, 60mm & Paired Row	Single. (Optional split)
135mm Rounded	135mm Curved	45, 60mm & Paired Row	Single. (Optional split)
V Flat "V"	V Flat Scraper V Scraper	30, 45, 60mm & Paired Row	Single. (Optional split)

1.1 Suitable Combinations – 50mm Press Wheel

Press Wheel	Closing Tool	Seeding Boot	Scraper	Soil Type	Moisture	Spring Pressure
50mm	30mm	Single	75mm Spear	Heavy	Dry	C or D
					Moist	B to C
					Wet	A to B

1.2 Suitable Combinations - 90mm Flat, 90&110mm Rounded Press Wheel

Press Wheel	Closing Tool	Seed Boot	Scraper	Soil Type	Moisture	Spring Pressure
90mm Flat or 90 or 110mm Rounded	45mm	Single	110mm Spear	Light	Dry	A or B
					Moist	A or B
					Wet	B or C
			90/110mm Curved	Medium	Dry	C or D
					Moist	B or C
					Wet	B or C
90mm Flat or 90 or 110mm Rounded	60mm	Split	110mm Spear	Light	Dry	A or B
					Moist	B or C
					Wet	B or C
			90/110mm Curved	Medium	Dry	C or D
					Moist	B or C
					Wet	B or C

1.3 Suitable Combinations – 70mm Flat & 90mm Rounded Press Wheel

Press Wheel	Closing Tool	Seed Boot	Scraper	Soil Type	Moisture	Spring Pressure
70mm Flat or 90 or 110mm Rounded	30mm	Single	75mm Spear 90 or 110mm Curved	Light	Dry	A or B
					Moist	B or C
					Wet	B or C
				Medium	Dry	B or C
					Moist	B or C
					Wet	A or B
				Heavy	Dry	D
					Moist	B to C
					Wet	B to C
70mm Flat or 90 or 110mm Rounded	45mm	Single	75mm Spear 90 or 110mm Curved	Light	Dry	A or B
					Moist	B or C
					Wet	B or C
				Medium	Dry	B or C
					Moist	B or C
					Wet	A or B
				Heavy	Dry	D
					Moist	B to D
					Wet	B to C
70mm Flat or 90 or 110mm Rounded	60mm	Split	75mm Spear 90 or 110mm Curved	Light	Dry	B or C
					Moist	B or C
					Wet	B or C
				Medium	Dry	C or D
					Moist	C or D
					Wet	C or D
				Heavy	Dry	D
					Moist	C or D
					Wet	B or C

1.4 Suitable Combinations - 'V' Press Wheel

Press Wheel	Closing Tool	Seed Boot	Scraper	Soil Type	Moisture	Spring Pressure
V V Flat	30mm	Single	V Scraper V Flat Scraper	Heavy	Dry	D
					Moist	B to C
					Wet	B to C
V V Flat	45mm	Single	V Scraper V Flat Scraper	Heavy	Dry	D
					Moist	B to D
					Wet	B to D
V V Flat	60mm	Split	V Scraper V Flat Scraper	Heavy	Dry	D
					Moist	C or D
					Wet	C or D



CAUTION!

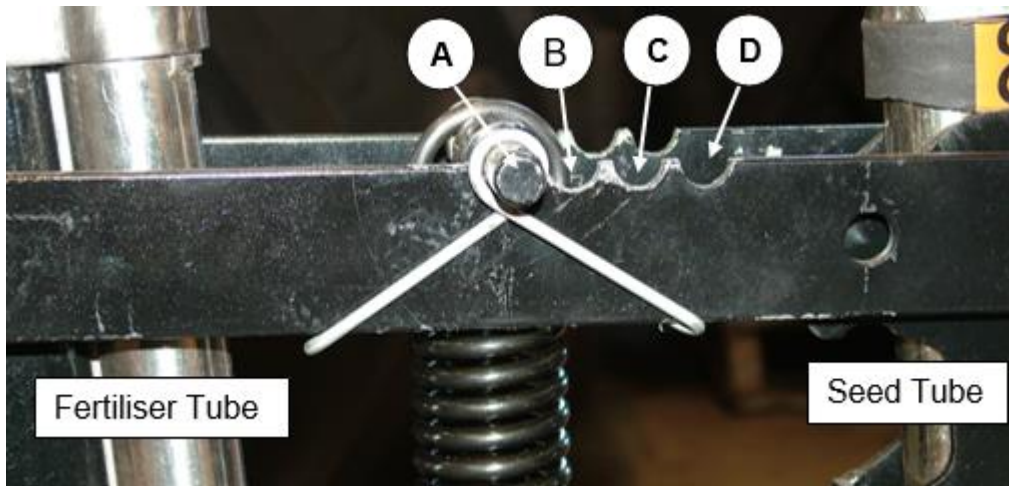
The V press wheel is not suitable for use in rocky conditions.

1.5 Suitable Combinations - 135mm Press Wheel

Press Wheel	Closing Tool	Seed Boot	Scraper	Soil Type	Moisture	Spring Pressure
135mm Rounded	45mm	Single	135mm Curved	Light	Dry	A or B
					Moist	A or B
					Wet	B or C
				Medium	Dry	C or D
					Moist	B or C
					Wet	B or C
135mm Rounded	60mm	Split	135mm Curved	Light	Dry	A or B
					Moist	B or C
					Wet	B or C
				Medium	Dry	C or D
					Moist	B or C
					Wet	B or C

1.6 Press Wheel Pressure Positions

The DBS parallelogram assembly has 4 spring pressure positions for the press wheel.



Press Wheel Pressure Position	Spring (kg) (Part # 01421)
'A' (Lightest)	20
'B'	25
'C'	30
'D' (Heaviest)	35

Please Note:

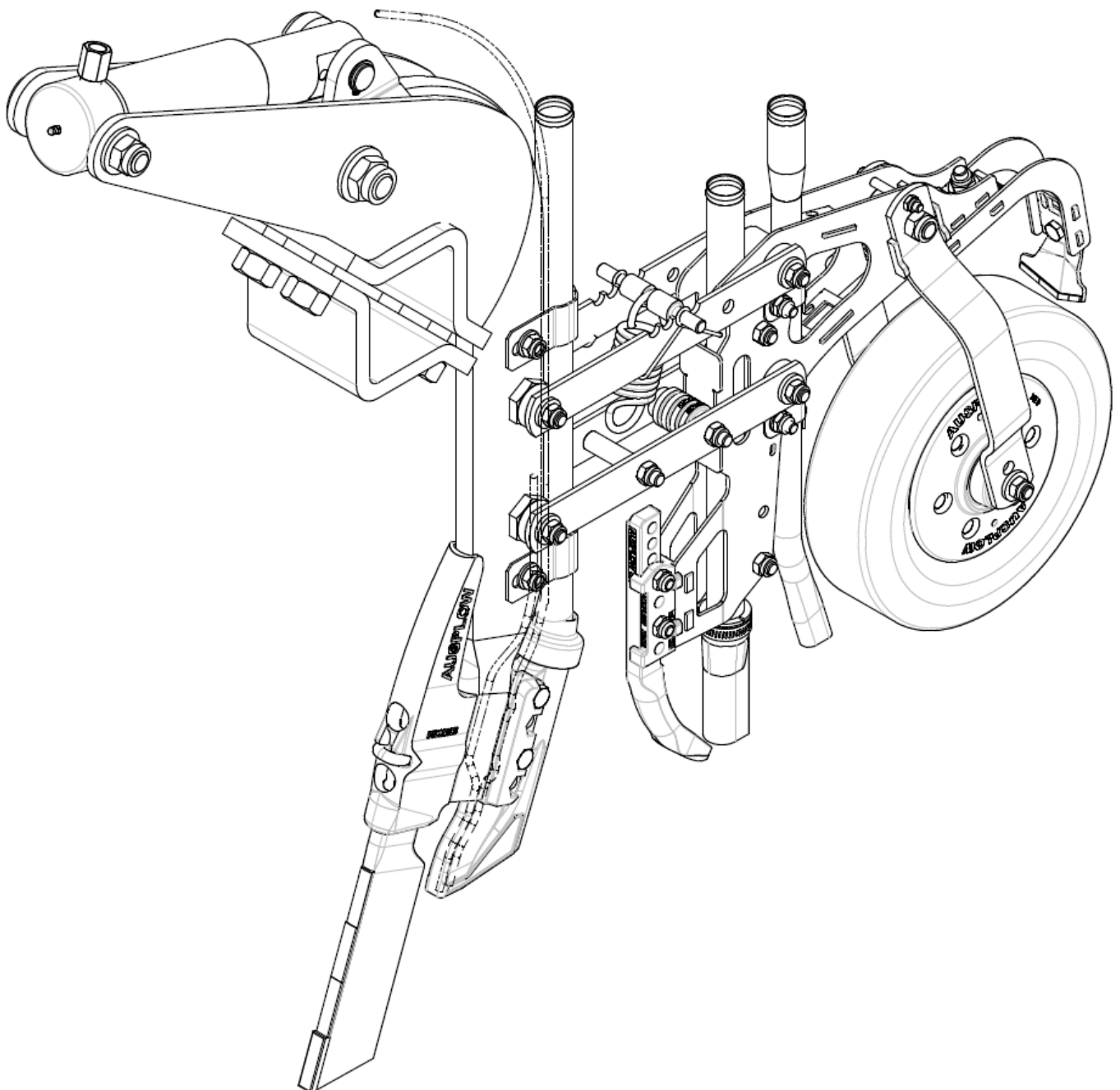
When undertaking maintenance on tine assemblies, Cone lock and Nylock nuts should **not be reused**.

2.0 DBS Tine Assembly Version 4

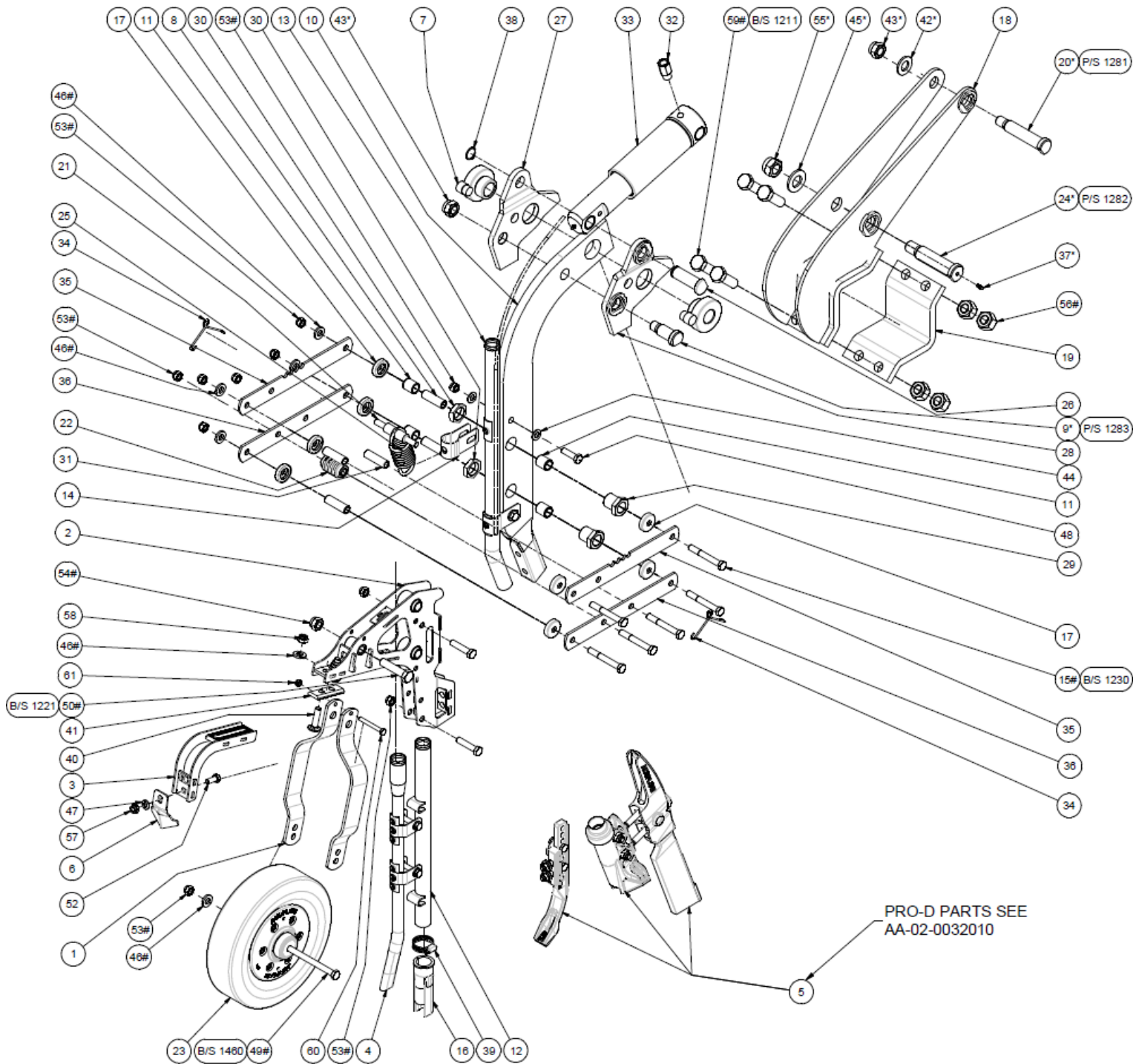
2.1 General Information

The Version 4 (V4) tine assembly was introduced January 2016. Upgrade kits are available for Version 3 and earlier tines.

2.2 Tine Assembly V4



2.3 Tine Assembly V4 - Parts Listing (27589)



PIN SET No -1281

Item No	Part No
20	1179
43	9002
42	9003

PIN SET No -1282

Item No	Part No
24	1368
37	9001
45	9029
56	9030

PIN SET No -1283

Item No	Part No
9	1131
43	9002

BOLT SET No -1211

Item No	Part No
56	9388
59	9389

BOLT SET No -1221

Item No	Part No
55	9024
50	9025

BOLT SET No -1230

Item No	Part No
15	1138
54	9009
46	9031

BOLT SET No -1460

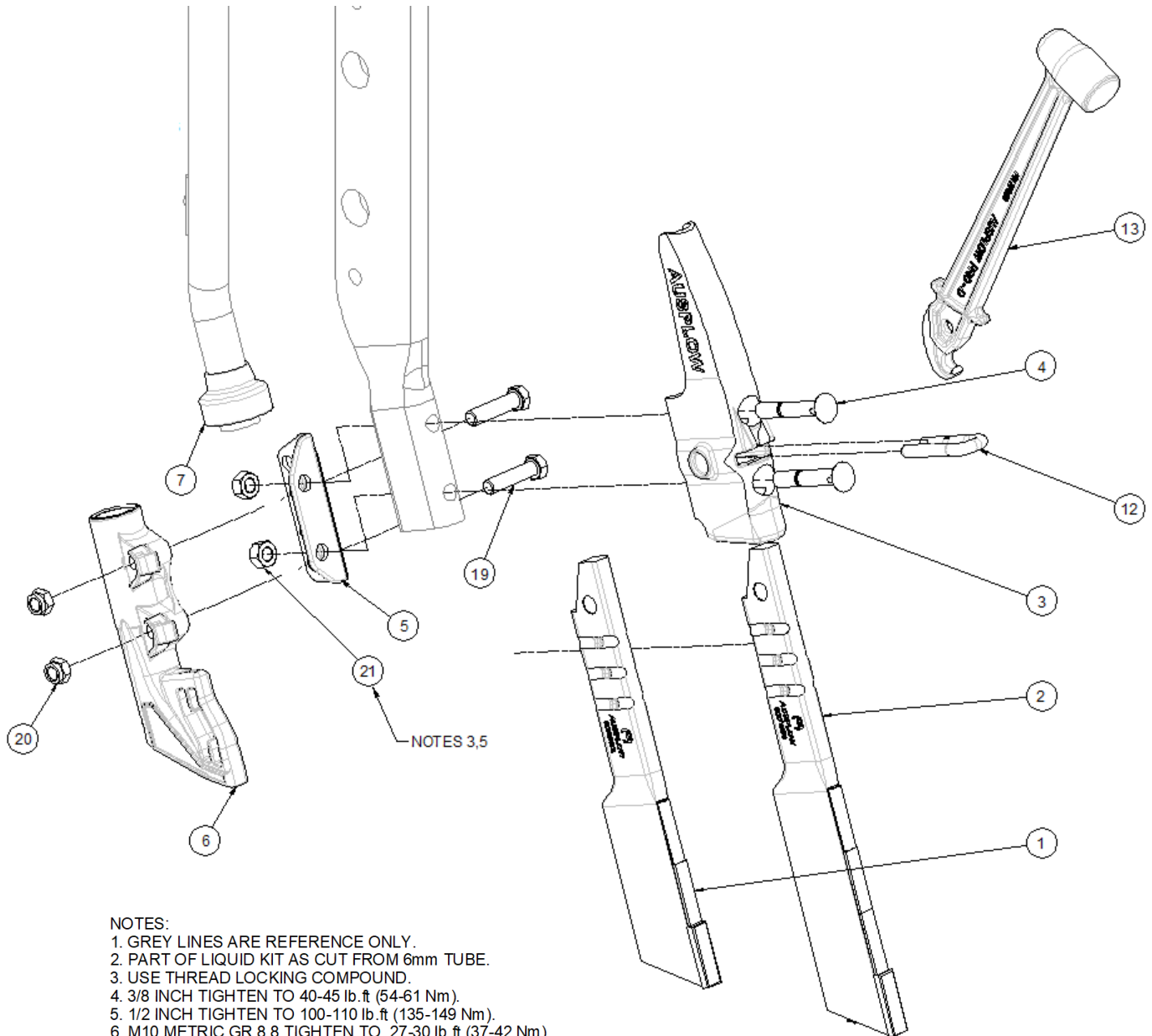
Item No	Part No
54	9009
49	0033615
46	9031

Version 4 Tine Parts Listing

Item	Qty	Code	Grp	Part No	Description	Note
1	2	AA	04	027203	MUD RIB PRESS WHEEL ARM	
2	1	AA	04	027222	V4 RIB SUB ASSY	
3	1	AA	05	0033477	V4 SCRAPER ARM WELDMENT	
4	1	AA	01	0033480	THIRD LINE TUBE MOUNT	Optional
5	1	AA	02	0032010	PRO-D PARTS G.A.	
6	1	AA	05	027526	MUD SCRAPER II ASSY	
	1	AA	05	16040	SCRAPER ASSY 110mm	Optional
7	2	AA	02	1125	BUSH ASSY - SHANK PIVOT	
8	4	AA	04	1130	BUSH - SINTERED NICKEL	
9*	1	AA	02	1131	PIN - 25 x64 - SHANK SUPPORT	
10	1	AA	02	1132	SHANK	
11	4	AA	04	1133	BUSH - SINTERED NICKEL	
12	1	AA	04	11351	SEED TUBE WELDMENT	
13	1	AA	03	11367	FERTILISER TUBE WELDMENT	
14	2	AA	03	11369	CLAMP- FERTILISER TUBE	
15#	6	AA	04	1138	BOLT-M12x90 - ZP	
16	1	AA	04	11446	SEED BOOT	
17	8	AA	04	1150	SEAL CAP ASSEMBLY	
18	1	AA	02	1160	PIVOT BRACKET ASSY	
19	1	AA	02	1162	CLAMP PLATE- PIVOT BRACKET	
20*	1	AA	01	1179	PIN - JUMP CYL BASE	
21	1	AA	04	1217	PIN - SPRING HOLDER	
22	1	AA	04	12788	STOPPER ASSY	
23	1	AA	05	1351	TYRE & HUB ASSEMBLY - 70mm	
	1	AA	05	1352	TYRE & HUB ASSEMBLY - 50mm	Optional
	1	AA	05	8872	TYRE & HUB ASSEMBLY - 90mm	Optional
	1	AA	05	11543	TYRE & HUB ASSEMBLY - V PROFILE	Optional
	1	AA	05	028256	TYRE & HUB ASSEMBLY - 310 x 135	Optional
	1	AA	05	0032461	TYRE & HUB ASSEMBLYPRESS WHEEL ASSY - 310x90	Optional
	1	AA	05	0032891	PRESS WHEEL - Ø310x110 mm ASSEMBLY DETAILS	Optional
	1	AA	05	0033040	PRESS WHEEL 390x146 V PROFILE BEARING ASSEMBLY DETAILS	Optional
24*	1	AA	02	1368	PIN SHANK PIVOT - DIA30 x LGTH102	
25	1	AA	04	1421	SPRING - TENSION 6.3 x 45 x 120	
26	1	AA	01	1436	PIN - 25 x75 JUMP CYL ROD END	

Item	Qty	Code	Grp	Part No	Description
27	1	AA	02	1437	CHEEK PLATE - LEFT
28	1	AA	02	1438	CHEEK PLATE ASSEMBLY - RIGHT
29	2	AA	04	1463	HOUSING SHANK BUSH
30	2	AA	04	1464	NUT-SHANK BUSH HOUSING
31	1	AA	05	1495	SPACER BUSH
32	1	AA	01	6016	VALVE - CUSHION RETURN
33	1	AA	01	6017	JUMP CYLINDER ASSEMBLY
34	2	AA	04	8141	RETAINING SPRING
35	2	AA	04	8925	SIDE ARM - UPPER 330
36	2	AA	04	8926	SIDE ARM - LOWER 330
37*	1	GP	60	9001	GREASE NIPPLE 1/4 BSW
38	1	GP	20	9007	CIRCLIP-EXTERNAL-25X1.2mm
39	1	GP	40	9086	HOSE CLAMP 19-44 WORM DRIVE-SS
40	2	GP	01	9738	CUP HEAD SQUARE HEAD BOLT M12x45 GAL
41	1	AA	05	0033475	V4 SCRAPER ARM MOUNT BLOCK MACHINING
42*	1	GP	03	09003	WASHER FLAT HT M20 (200HV) ZP ISO 7415
43*	2	GP	02	09002	NUT LOCK M20 (C8) ZP ISO 7042
44	4	GP	03	09108	WASHER FLAT M12 (A4) ISO 7089
45*	1	GP	03	09029	WASHER FLAT HT M24 (200HV) ZP ISO 7415
46#	7	GP	03	09031	WASHER FLAT HT M12 (200HV) ZP ISO 7415
47	1	GP	03	09141	WASHER FLAT M10 (200HV) ZP ISO 7089
48	2	GP	01	09011	BOLT HEX M12x40 (8.8) ZP ISO4017
49#	1	GP	01	0033615	BOLT HEX M12x150 (10.9) ZP ISO4014
50#	1	GP	01	09025	BOLT HEX M16x70 (8.8) ZP ISO4014
51	2	GP	01	09415	BOLT HEX M12x55 (8.8) ZP ISO4014
52	1	GP	01	09430	BOLT HEX M10x25 (8.8) ZP ISO4017
53#	11	GP	02	09009	NUT LOCK M12 (C8) ZP ISO 7042
54#	1	GP	02	09024	NUT LOCK M16 (C8) ZP ISO 7042
55*	1	GP	02	09030	NUT NYLOC M24 (C8) ZP DIN 985
56#	4	GP	01	09389	NUT HEX M20 (C10) ZP ISO 4775
57	1	GP	02	09488	NUT NYLOC M10 (C8) ZP DIN 985
58	2	GP	02	09740	NUT NYLOC M12 (C8) GAL DIN 985
59#	4	GP	01	9388	BOLT M20x60 C10.9 ZP
60	1	GP	01	0033833	BOLT HEX M8x65 (10.9) ZP ISO4014
61	1	GP	02	09019	NUT LOCK M8 (C8) ZP ISO 7042

2.4 PRO-D Assembly Parts (32010)



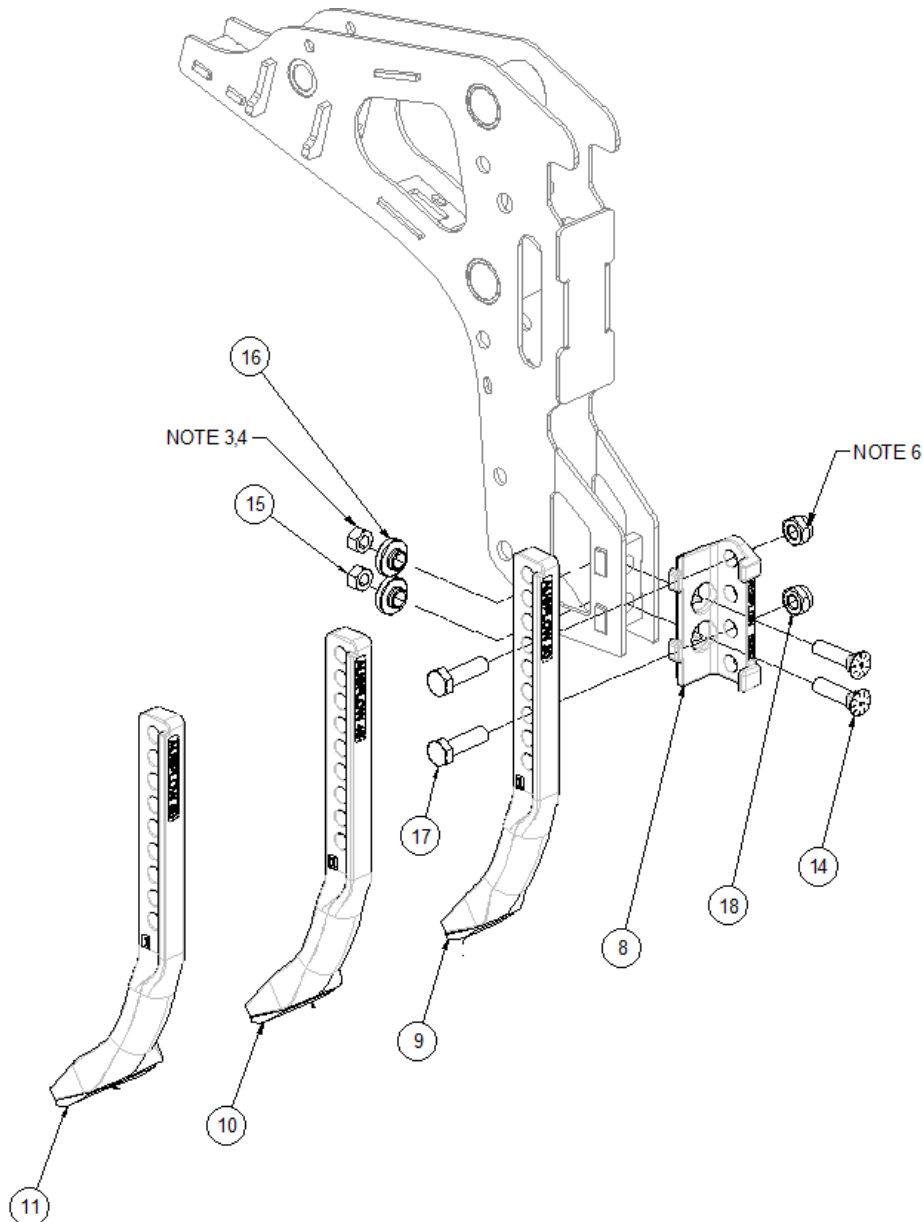
NOTES:

1. GREY LINES ARE REFERENCE ONLY.
2. PART OF LIQUID KIT AS CUT FROM 6mm TUBE.
3. USE THREAD LOCKING COMPOUND.
4. 3/8 INCH TIGHTEN TO 40-45 lb.ft (54-61 Nm).
5. 1/2 INCH TIGHTEN TO 100-110 lb.ft (135-149 Nm).
6. M10 METRIC GR 8.8 TIGHTEN TO 27-30 lb.ft (37-42 Nm).
7. V2.0 TINE ADDITIONAL COMPONENTS REQUIRED.

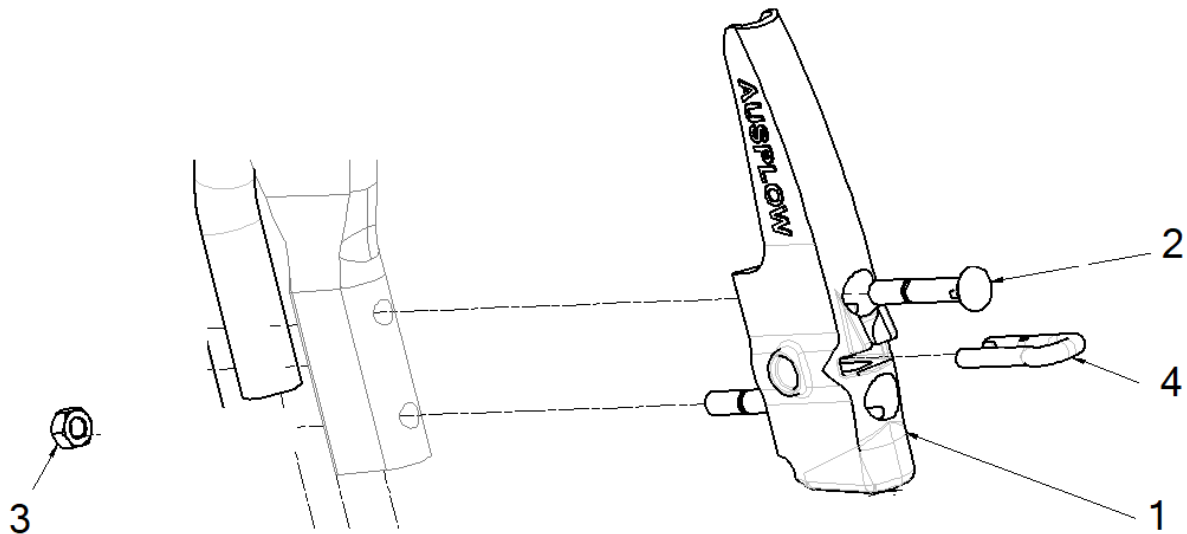
Item #	Qty	Part #	Description
1	1	26992	PRO-D BLADE 5-7
2	1	27059	PRO_D BLADE 7-9
3	1	26995	BLADE ADAPTOR
4	2	27914	½" UNF x 3 1/8" NIB BOLT (sold as kit 05258)
4 & 21		05258	BOLT SET ½" x 3 1/8" UNF
5	1	33951	PRO-D FERTILISER SHIELDED BOOT ADAPTOR
6	1	33953	PRO-D FERTILISER SHIELDED BOOT
7	1	33952	FERTILISER BOOT PROTECTION COVER
8	1	31802	CLOSING TOOL ADAPTOR

Ausplow DBS Tine Spare Parts Manual

9	1	31817	CLOSING TOOL 30mm
		16041	CLOSING TOOL 30mm KIT c/w ADAPTOR KIT
10	1	31803	CLOSING TOOL 45mm
		16042	CLOSING TOOL 45mm KIT c/w ADAPTOR KIT
11	1	31816	CLOSING TOOL 60mm
		16043	CLOSING TOOL 60mm KIT c/w ADAPTOR KIT
12	1	27055	PRO-D RETAINING PIN 10mm
13	1	27056	PRO-D PIN REMOVAL TOOL
14	2	27101	BOLT PLOW $\frac{3}{8}$ " x 1.375" 16 UNC ALLOY
15	2	09764	NUT $\frac{3}{8}$ " 16 UNC - Conelock
16	2	27148	WASHER CLOSING TOOL PRO-D
17	2	09487	BOLT HEX M10 x 35mm
18	2	09488	NUT M10 Nylock
19	2	09298	BOLT M12 x 50mm
20	2	09009	NUT M12 Conelock
21	2	09812	NUT $\frac{1}{2}$ " UNF Conelock



2.5 PRO-D Blade Adaptor Kit



In 2017 UNF bolts replaced UNC blade adaptor bolts, these are now sold as a bolt set:
#05258 Bolt Set ½ x 3 1/8" UNF NIB Bolt (Items 2 & 3)

Item #	Qty	Part #	Description
All	1	15830	PRO-D BLADE ADAPTOR KIT
1	1	26995	BLADE ADAPTOR PRO-D
2&3			½" UNF x 3 1/8" NIB BOLT (Sold as 05258 kit)
3	2	09812	NUT ½" UNF - Conelock
4	1	27055	BLADE RETAINING PIN 10mm PRO-D
5	2	09031	WASHER FLAT M12 (only used if not fitting the Fert Shield Adaptor)

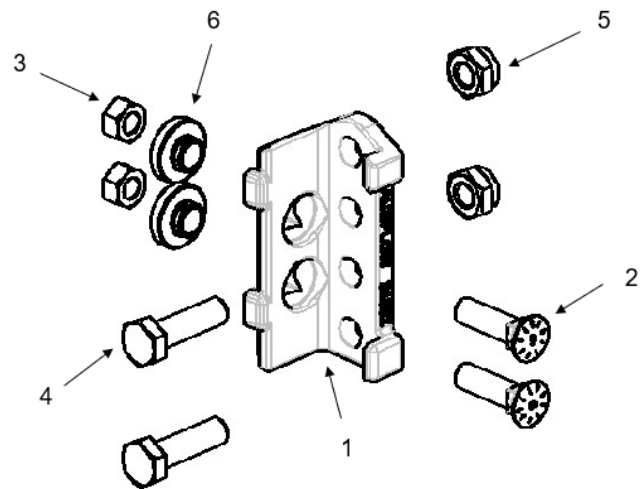


ADVISORY Blade Adaptor in Rocky Conditions

- If users encounter challenging conditions like rocks when sowing, Ausplow recommends applying a small weld between the top of the blade adaptor and the shank.
- This will reduce excessive impact forces on the blade adaptor bolts.
- The photo shows where the weld is to be applied using the following procedures below:
 - Grind paint off the area to be welded.
 - Then preheat to 100°C (if possible).
 - Weld a 6-8mm wide single fillet weld each side as shown using a low hydrogen rod or flux cord wire.



2.6 PRO-D Closing Tool Adaptor Kit



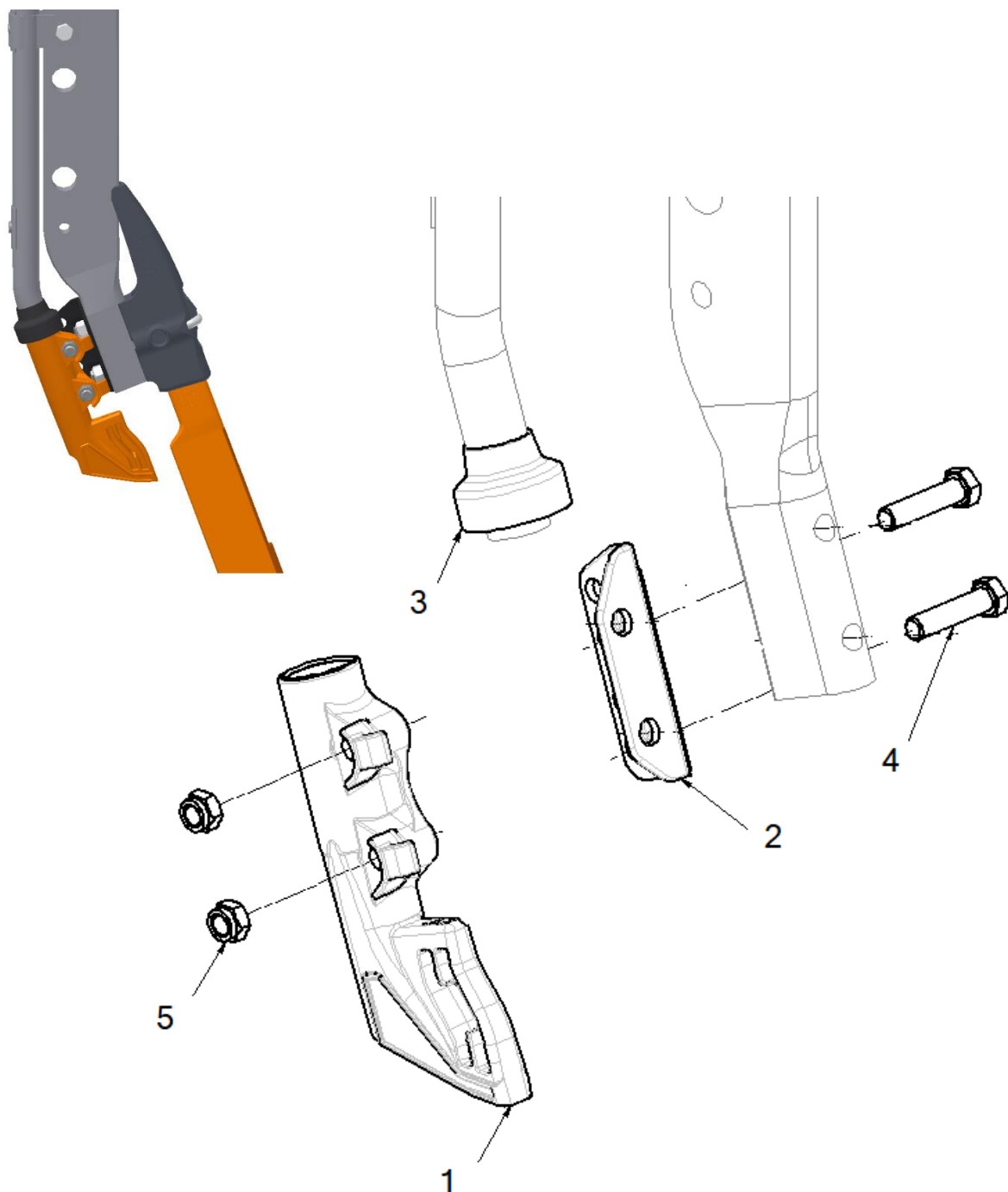
Item #	Qty	Part #	Description
All	1	30132	PRO-D CLOSING TOOL V2 ADAPTOR KIT
1	1	31802	CLOSING TOOL ADAPTOR V2 PRO-D
2	2	27101	BOLT PLOW $\frac{3}{8}$ " x 1.375" 16 UNC ALLOY
3	2	09764	NUT $\frac{3}{8}$ " 16 UNC - Conelock
4	2	09487	BOLT M10 x 35mm
5	2	09488	NUT M10 Nylock
6	2	27148	WASHER CLOSING TOOL PRO-D

2.7 PRO-D Fertiliser Shielded Boot Kit

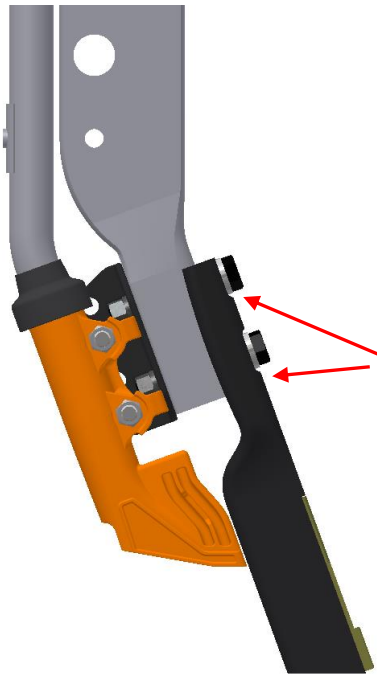
The Pro-D Fertiliser boot, shield and strap has been replaced by a new Fertiliser Shielded Boot that incorporates a high wear protection surface on its face and has the provision to fit two liquid friction flow tubes.

The new Fertiliser Boot Adaptor is bolted to the back of the shank using the blades bolts and the Fertiliser Boot is then bolted to the adaptor using two of the 4 holes in the adaptor depending on the 3" or 4" depth setting required.

When fitting the Shielded Boot to tine assemblies that have the 32mm stainless steel fertiliser tubes, the lower fertiliser tube clamp is to be removed and is not used. The rubber fertiliser boot protection cover is fitted to the fertiliser tube prior to attaching the Shielded Boot.



Item #	Qty	Part #	Description
All	1	03136	PRO-D FERTILISER SHIELDED BOOT KIT
1	1	33953	PRO-D FERTILISER SHIELDED BOOT
2	1	33951	PRO-D FERTILISER SHIELDED BOOT ADAPTOR
3	1	33952	PRO-D FERTILISER BOOT PROTECTION COVER
4	2	09298	BOLT M12 x 50mm (8.8)
5	2	09009	NUT M12 - Conelock

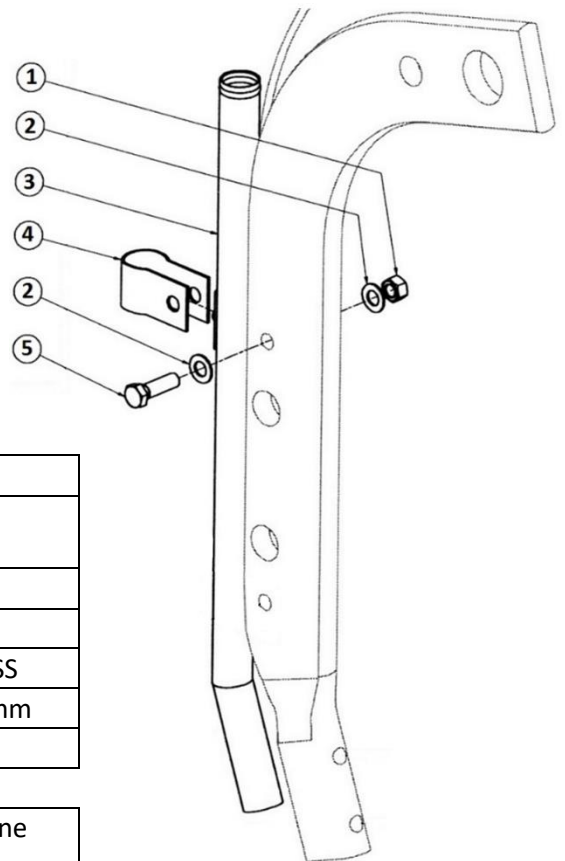
Please Note:

The new Shielded Boot can also be used on tine assemblies that have DBA blades and the stainless fertiliser tubes fitted.

When fitting the adaptor, one #09031 M12 Flat Washer should be placed under each blade bolt head to ensure the DBA blade bolts do not interfere with the boot fitting onto the adaptor.

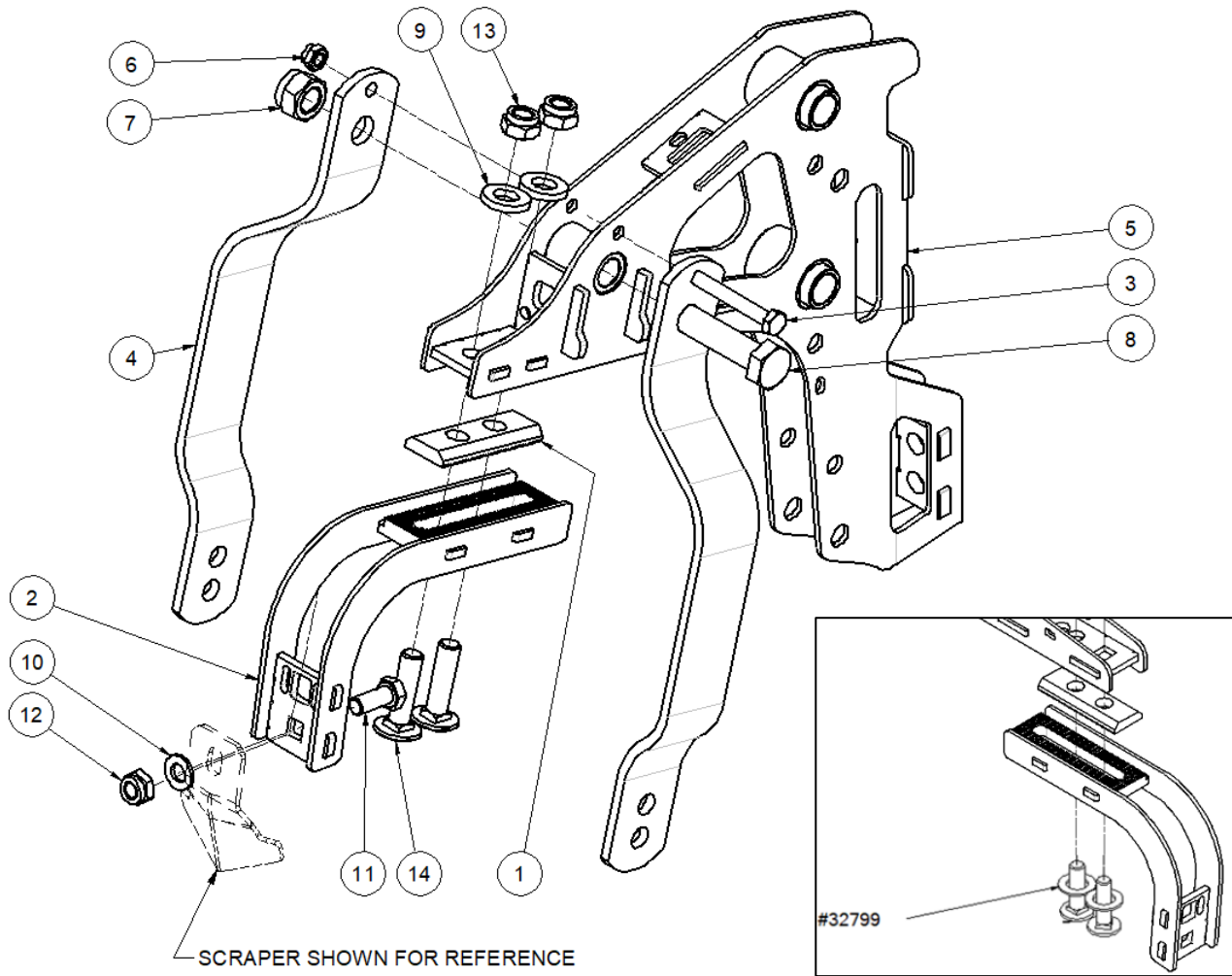
2.8 PRO-D Fertiliser Tube Upgrade Kit SS

These kits are used to convert a Version 2 Tine Assembly to 32mm stainless steel Fertiliser Tubes to accommodate the Pro-D Fertiliser Boot.



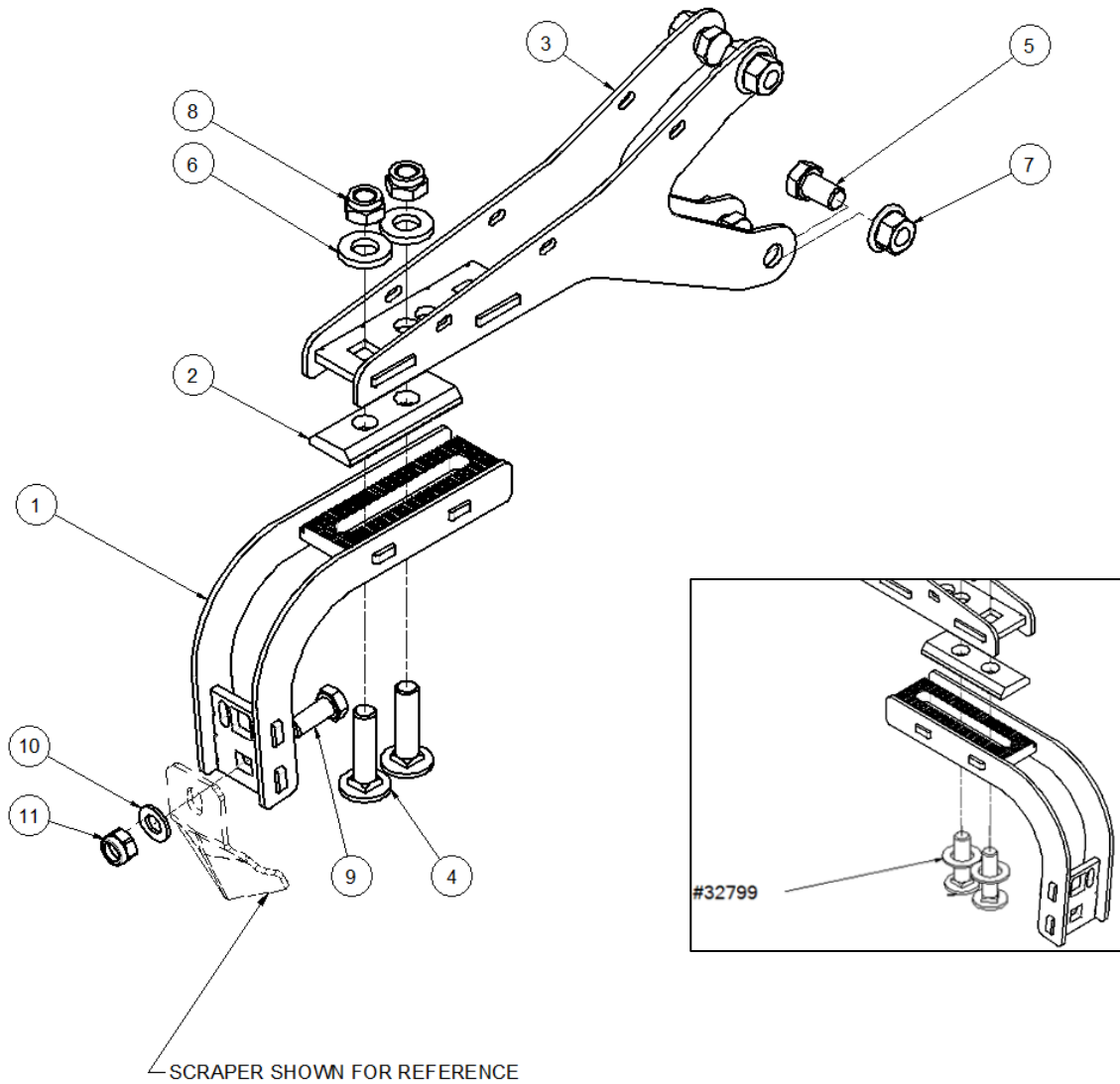
Item #	Qty	Part #	Description
All	1	15832	PRO-D FERTILISER TUBE UPGRADE KIT SS
1	2	09009	NUT M12 Conelock
2	4	09108	WASHER FLAT M12 SS
3	1	11367	FERTILISER TUBE 32mm OD SS
4	2	11369	CLAMP FERTILISER TUBE 32mm
5	2	09011	BOLT M12 x 40mm
1,2,5		11925	BOLT SET M12 x 40mm SS (one bolt & nut, two washers)

2.9 Rib Upgrade Kit V4 Tine



Item #	Qty	Part #	Description
All	1	27220	RIB UPGRADE KIT V4 TINE
1	1	33475	V4 SCRAPER ARM MOUNT BLOCK
2	1	33477	V4 SCRAPER ARM
3	1	33833	BOLT M8 x 65mm
4	2	27203	RIB PRESS WHEEL ARM V4 TINE
5	1	27222	RIB V4 TINE c/w BUSHES
6	1	09019	NUT M8 Conelock
7	1	09024	NUT M16 Conelock
8	1	09025	BOLT M16 x 70mm
9	2	09031	WASHER FLAT M12
10	1	09141	WASHER FLAT M10
11	1	09430	BOLT HEX M10 x 25mm (8.8)
12	1	09488	NUT M10 Nylock
13	2	09740	NUT M12 Nylock GAL
14	2	09738	CUP HEAD SQUARE NECK BOLT M12 x 45mm GAL
Optional	2	32799	WASHER FLAT 30x17.7x2mm for use with some 09738 square neck bolts

2.10 V3 to V4 Rear Scraper Arm Upgrade



Item	Qty	Part#	Description
All	1	27221	V3 TO V4 REAR SCRAPER ARM UPGRADE KIT
1	1	33477	V4 SCRAPER ARM
2	1	33475	V4 SCRAPER ARM MOUNT BLOCK
3	1	27218	SCRAPER ARM V3 ADAPTOR
4	2	09738	CUP HEAD SQUARE NECK BOLT M12 x 45mm GAL
5	4	09710	SCREW HEX – M12X20
6	2	09031	WASHER FLAT M12
7	4	09208	NUT FLANGE M12
8	2	09740	NUT M12 Nylock GAL
9	1	09430	BOLT HEX M10 x 25mm (8.8)
10	1	09141	WASHER FLAT M10
11	1	09488	NUT M10 Nylock ZP
Optional	2	32799	WASHER FLAT 30x17.7x2mm for use with some 09738 square neck bolts

2.11 Seeding Unit & Linkage Assy V4 Tine #11939

Machines can be upgraded to Version 4 specifications by fitting Part # 11939. A press wheel, closing tool, seed boot, and scraper will need to be selected and ordered separately.

Please note #11939 is supplied **as separate parts, not assembled.**



Note: Recommended Torque setting for the V4 tine are shown in Section 2.13

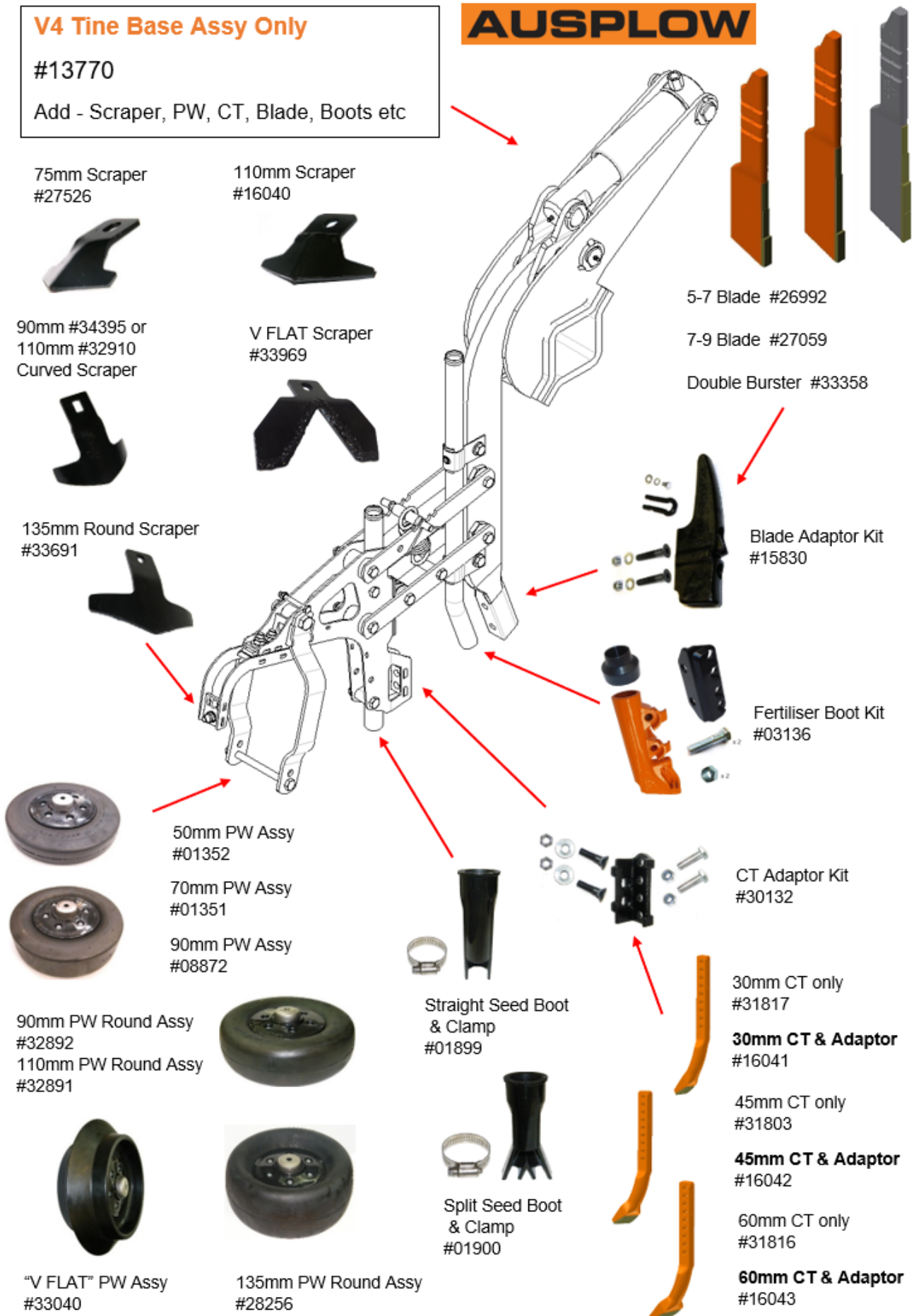
2.12 V4 Tine Assembly – Base Unit - #13770

V4 Tine Base Assy Only

#13770

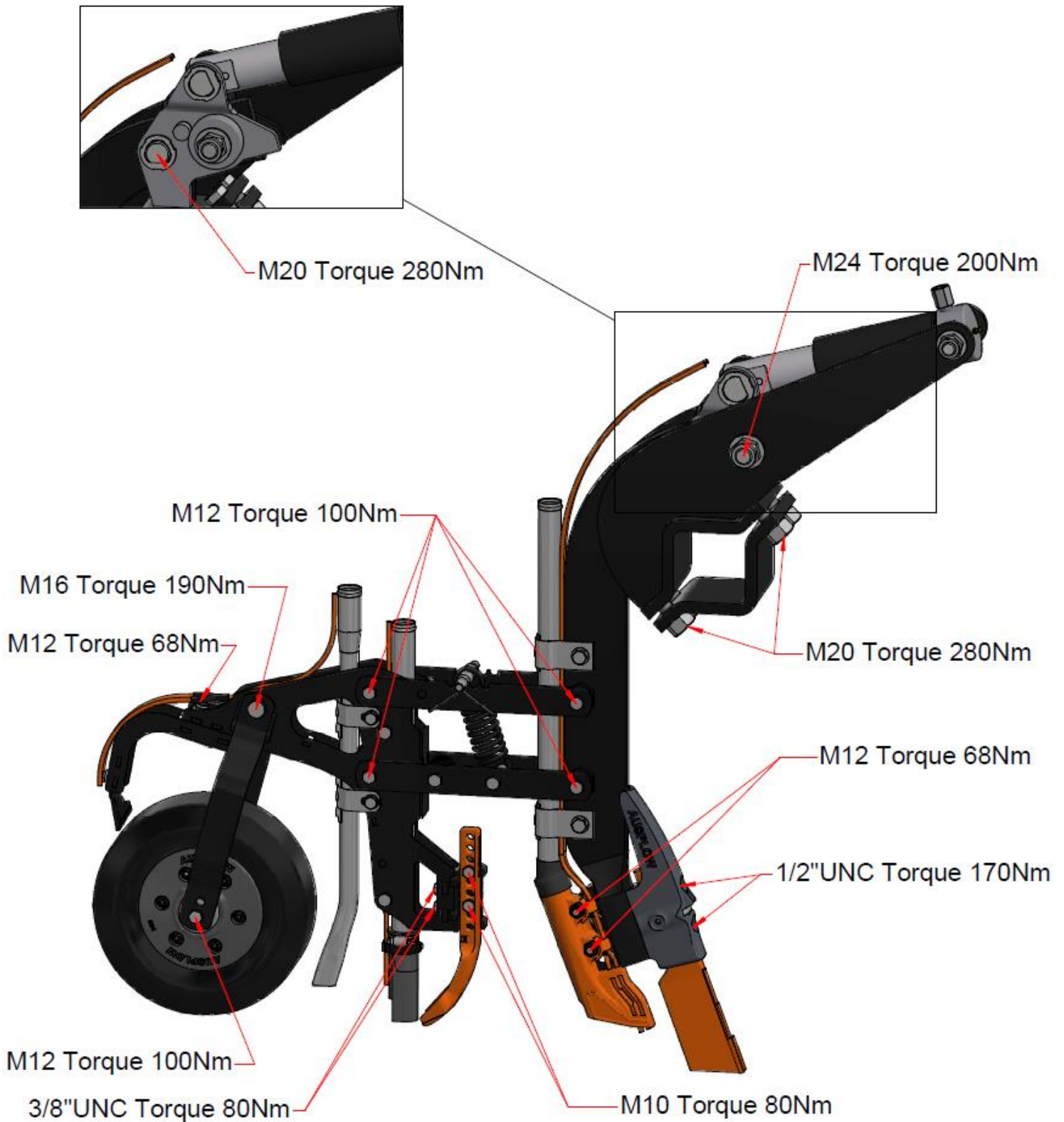
Add - Scraper, PW, CT, Blade, Boots etc

AUSPLOW

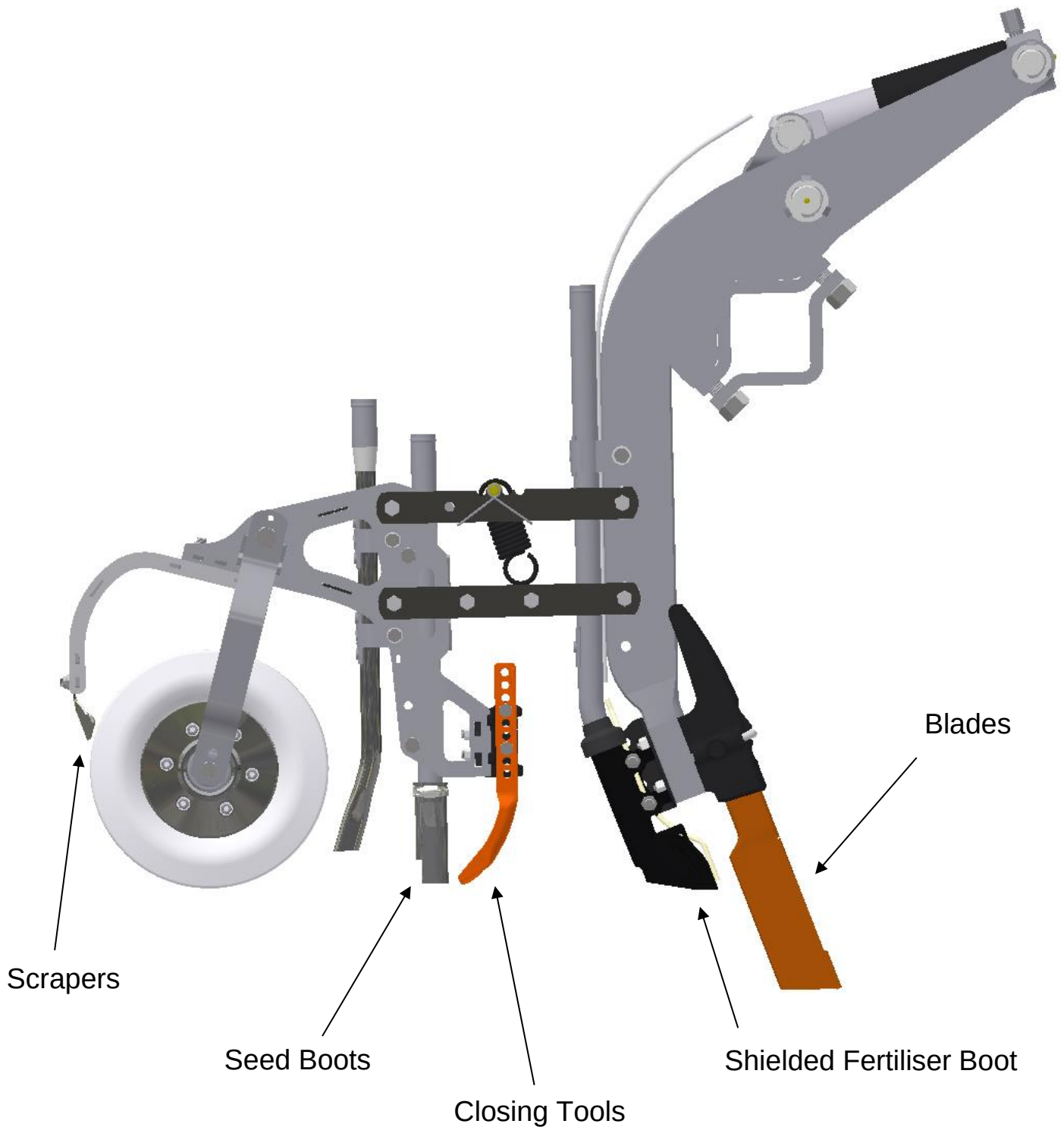


2.13 V4 Tine Recommended Torque Settings

DETAIL: Plate hidden



3.0 Wear Parts - Ground Engaging DBS V4



3.1 PRO-D Blades

The Pro-D Blades are available in two sizes:

- Pro-D 5-7 (5 to 7") and
- Pro-D 7-9 (7 to 9").

The Pro-D Double Burster 7-9 blade is available for extra wear resistance as it contains two burster tiles on the end to improve blade life.

Item #	Qty	Part #	Description
1	1	26992	BLADE ASSEMBLY PRO-D 5-7
2	1	27059	BLADE ASSEMBLY PRO-D 7-9
3	1	33358	BLADE ASSEMBLY PRO-D 7-9 DOUBLE BURSTER



1



2



3

3.2 PRO-D Plus Blades

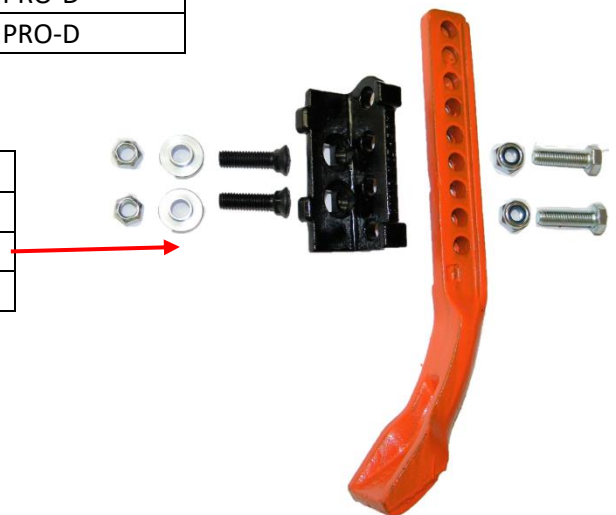
TBA

3.3 PRO-D Closing Tools



Item #	Qty	Part #	Description
1	1	31817	V2 CLOSING TOOL 30mm PRO-D
2	1	31803	V2 CLOSING TOOL 45mm PRO-D
3	1	31816	V2 CLOSING TOOL 60mm PRO-D

Part #	Description
16041	30mm CLOSING TOOL KIT c/w Adaptor
16042	45mm CLOSING TOOL KIT c/w Adaptor
16043	60mm CLOSING TOOL KIT c/w Adaptor



3.4 Seed Boots



Item #	Qty	Part #	Description
1	1	11446	SEED BOOT STRAIGHT 32mm ID SUIT V4 & V3 TINE (2007 ON)
2	1	11447	SEED BOOT SPLIT 32mm ID SUIT V4 & V3 TINE (2007 ON)
3	1	09086	HOSE CLAMP SUIT 32mm ID BOOTS
4	1	13710	BOOT SMALL SEEDS – 32mm ID SUIT V4 & V3 TINE

3.5 Scrapers for V4 Tine



Item #	Qty	Part #	Description
1	1	27526	75mm SCRAPER V4 TINE – Suit 50, 70mm
2	1	16040	110mm SCRAPER V4 TINE – Suit 90mm PW
3	1	28900	V WHEEL SCRAPER to suit old V PW 11033
4	1	33969	V FLAT PRESS WHEEL SCRAPER suit PW 32836
5	1	34395	CURVED SCRAPER V4 TINE – Suit 90mm ROUNDED PW
6	1	32910	CURVED SCRAPER V4 TINE – Suit 110mm ROUNDED PW
7	1	33691	CURVED SCRAPER V4 TINE – Suit 135mm ROUNDED PW

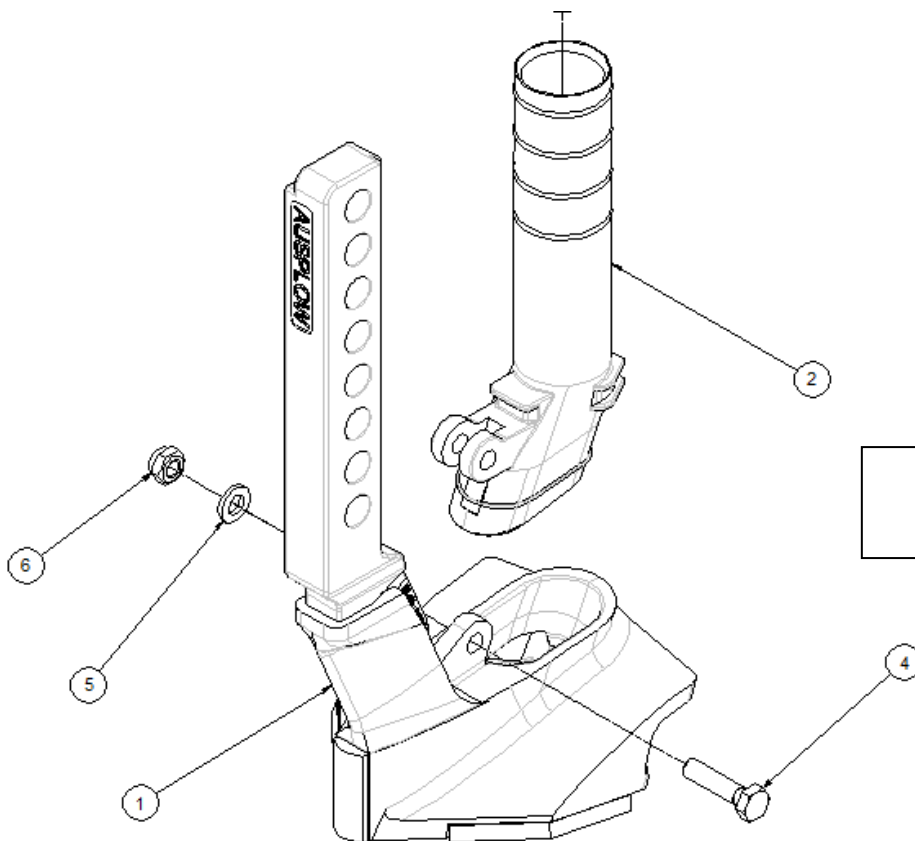
V4 Tine scrapers are not interchangeable with the V3 or V2 Tine Scrapers.
Use #27221 to convert V3 scraper arm to V4 scraper arm.

3.6 Fertiliser Boot

Part #	Description
33953	PRO-D SHIELDED FERTILISER BOOT



3.7 Paired Row



28686 Pair Row Seed Tube
Adaptor for V2 Tines Only

Item #	Qty	Part #	Description
All	1	32043	PAIRED ROW ASSEMBLY DUAL BOLT
1	1	32015	PAIRED ROW BASE ASSY DUAL BOLT
2	1	27815	PAIRED ROW SEED TUBE
4	1	09065	BOLT M6 x 25mm
5	1	09224	WASHER FLAT M6
6	1	09064	NUT M6 NYLOCK
7	1	28686	Must Specify if for a V2 or V3/4 Tine Assy Only supplied for V2 Assy

		16044	PAIRED ROW V2 KIT c/w CT ADAPTOR KIT
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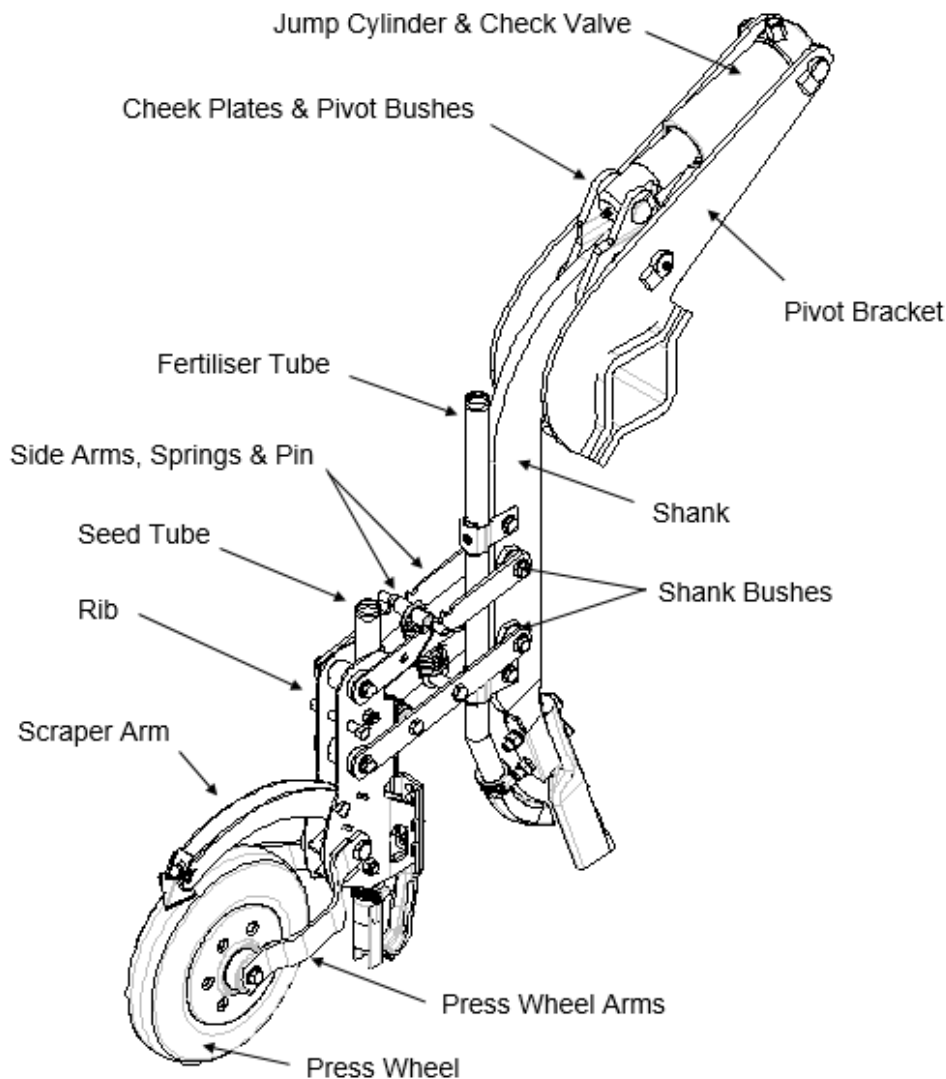
4.0 DBS Tine Assembly Version 3

4.1 General Information

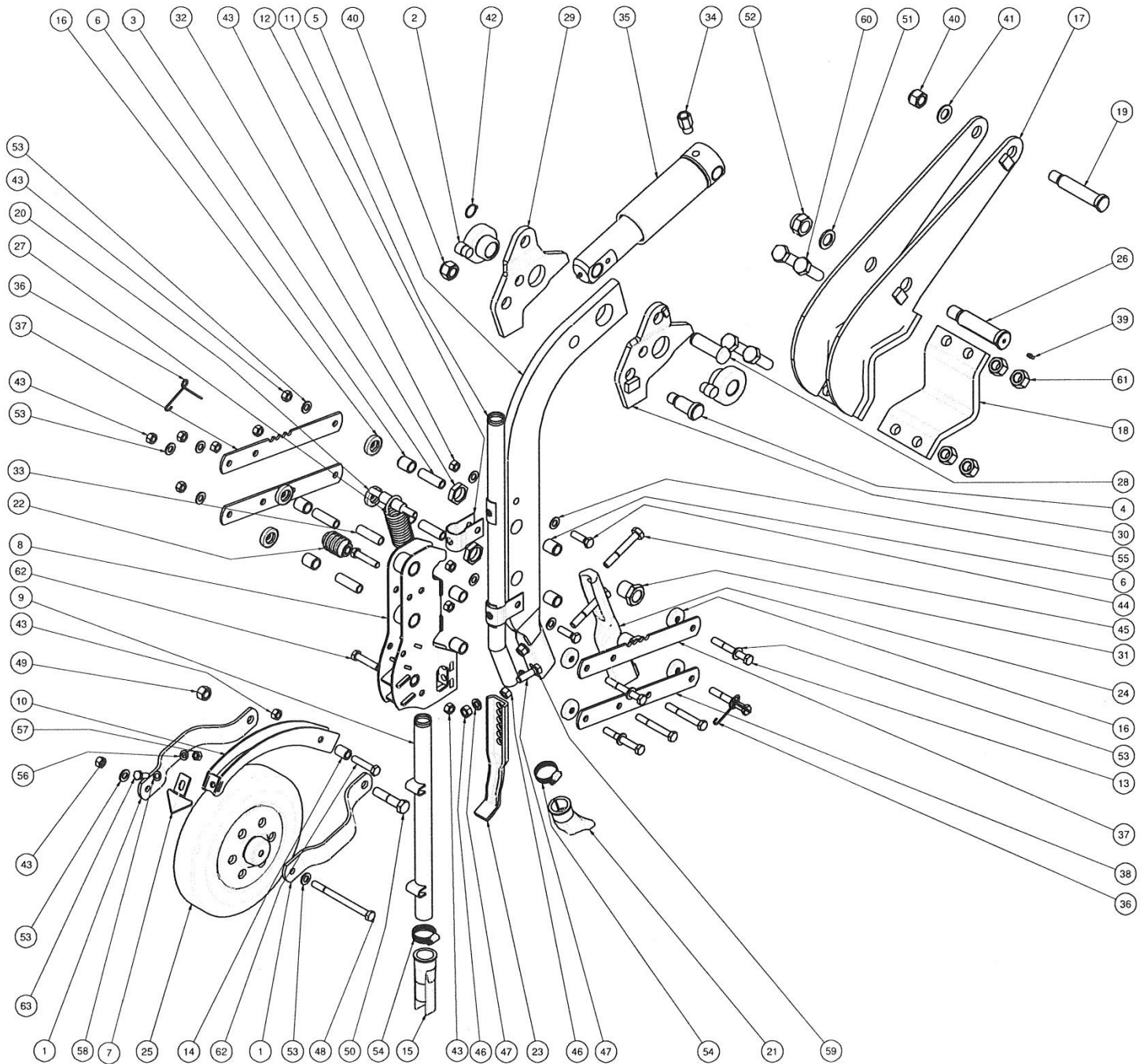
The Version 3 (V3) tine assembly was used from January 2007 to 2015. It is identified by the stainless steel seed and fertiliser tubes and long scraper arm.

Two different styles of side arms were used on the parallelogram. Early build V3 tines used a 3 notch arm, later versions use a 4 notch arm. The 4 notch arm is longer than the 3 notch arm so both the upper and lower arms must be changed if upgrading.

Upgrade kits are available to convert to Version 4 Tine assembly.



4.2 Tine Assembly V3 - Parts Listing



Version 3 Tine Parts Listing

Item	Qty	Part No	Description	
1	2	11131	PRESS WHEEL ARM STANDARD CURVED	
2	2	1125	BUSH ASSY - SHANK PIVOT	
3	4	1130	BUSH - SINTERED NICKEL	
4	1	1131	PIN - 25 x64 - SHANK SUPPORT	
5	1	1132	SHANK	
6	8	1133	BUSH - SINTERED NICKEL	
7	1	11345	SCRAPER SWEEP TYPE - 50mm ASSEMBLY	
8	1	11350	RIB WELDMENT	
9	1	11351	SEED TUBE WELDMENT	
10	1	11365	SCRAPER ARM ASSEMBLY 300 STD WHEEL	
11	1	11367	FERTILISER TUBE WELDMENT	
12	2	11369	CLAMP- FERTILISER TUBE	
13	6	1138	BOLT-M12x90 - ZP	
14	1	11428	SPACER	
15	1	11446	SEED BOOT	
16	8	1150	SEAL CAP ASSEMBLY	
17	1	1160	PIVOT BRACKET ASSY	
18	1	1162	CLAMP PLATE- PIVOT BRACKET	
19	1	1179	PIN - JUMP CYL BASE	
20	1	1217	PIN - SPRING HOLDER	
21	1	12344	FERTILISER TUBE BOOT	
22	1	12788	STOPPER ASSY	
23	1	12813	CLOSING TOOL 30mm ASSY	
24	1	1288	BLADE ASSY - DBA 27-130 (7 INCH)	
25	1	1352	PRESS WHEEL- 50mm	
26	1	1368	PIN SHANK PIVOT - DIA30 x LGTH102	
27	1	1389	SPRING - TENSION 5.6 x 42 x 120	
28	1	1436	PIN - 25 x75 JUMP CYL ROD END	
29	1	1437	CHEEK PLATE - LEFT	
30	1	1438	CHEEK PLATE ASSEMBLY - RIGHT	
31	2	1463	HOUSING SHANK BUSH	
32	2	1464	NUT-SHANK BUSH HOUSING	
33	1	1495	SPACER BUSH	
34	1	6016	VALVE - CUSHION RETURN	
35	1	6017	JUMP CYLINDER ASSEMBLY	
36	2	8141	RETAINING SPRING	
37	2	8925	SIDE ARM - UPPER 330	
38	2	8926	SIDE ARM - LOWER 330	
39	1	9001	GREASE NIPPLE 1/4 BSW	
40	2	9002	NUT - M20 - ZP - CONELOCK	
41	1	9003	WASHER-FLAT-M20-ZP	
42	1	9007	CIRCLIP-EXTERNAL-25X1.2mm	
43	12	9009	NUT M12 C8 ZP CONELOCK	
44	2	9011	BOLT M12x40 - G8.8 - ZP	
45	2	9012	BOLT 1/2"UNC x 3 1/2" ZP	
46	3	9014	NUT-1/2"UNC - ZP	
47	3	9015	WASHER SPRING -1/2"- ZP	
48	1	9016	BOLT-M12x150 - ZP	
49	1	9024	NUT-M16 - ZP - CONELOCK	
50	1	9025	BOLT-M1 6x 70 - ZP	
51	1	9029	WASHER FLAT-M24 - ZP	
52	1	9030	NUT-M24 - ZP - NYLOCK	
53	13	9031	Washer - Flat - M12 H/T ZP	
54	2	9086	HOSE CLAMP 19-44 WORM DRIVE-SS	
55	4	9108	WASHER FLAT - M12 - SS 316	
56	1	9130	WASHER SPRING - M10	
57	1	9131	NUT - M10 - ZP	
58	1	9141	WASHER FLAT M10 - ZP	
59	1	9155	BOLT 1/2 x 1 3/4" UNC G8 ZP	
60	4	9388	BOLT M20x60 C10.9 ZP	
61	4	9389	HEX NUT M20 C10.9 ZP	
62	3	9415	BOLT M12x55 GR8.8 ZP	
63	1	9430	BOLT M10x25 C8.8 ZP	

PIN SET
#01283

BOLT SET
#01230

PIN SET
#01281

PIN SET
#01282

PIN SET
#01456

BOLT SET
#05202

BOLT SET
#01460

BOLT SET
#01211

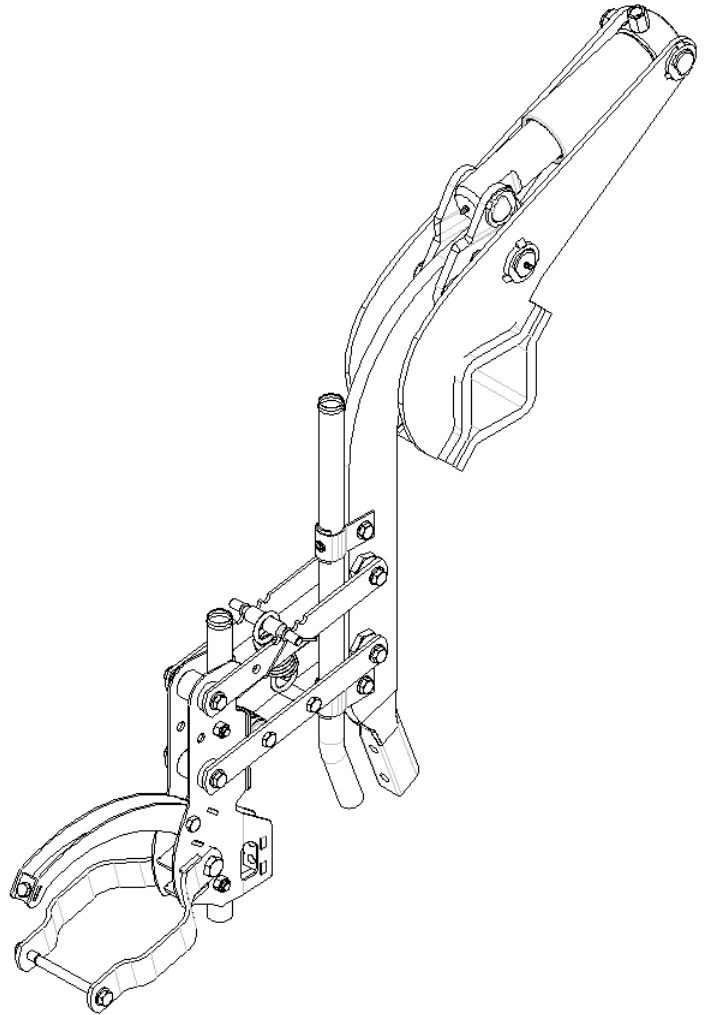
4.3 V3 Tine Assembly – Base Unit - #13771

Does not Include:

- Blade
- Fertiliser Boot
- Closing Tool
- Seed Boot
- Press Wheel
- Scraper

Blade Selection

Part#	Description
15830	Blade Adaptor Kit Pro-D
26992	Blade Pro-D 5-7 (5"-7")
27059	Blade Pro-D 7-9 (7"-9")
33358	Blade Pro-D Double Burster (7"-9")
01285	Blade Assembly – DBA 5"
05187	Blade Assembly – DBA 6"
01288	Blade Assembly – DBA 7"
01265	Blade Assembly – DBA 8"
01287	Blade Assembly – DBA 9"
11586	Blade Assembly - DBA 6" Liquid
11587	Blade Assembly - DBA 7" Liquid
11588	Blade Assembly - DBA 8" Liquid
11589	Blade Assembly - DBA 9" Liquid
05202	Bolt Set UNC 1/2x3 1/2 G8 (for DBA Blades, require x2)



Fertiliser Boot Selection

Part#	Description
03136	Fertiliser Boot Kit V2 Pro-D
12344	Boot - Fertiliser Tube – Short – 32mm
11445	Boot - Fertiliser Tube – Long – 32mm
09086	Hose Clamp 21-44 mm S/Steel (for 32mm Fertiliser Boot)

Closing Tool Selection

Part#	Description
30132	Closing Tool Adaptor Kit V2 Pro-D
31817	Pro-D Closing Tool 30mm
31803	Pro-D Closing Tool 45mm
31816	Pro-D Closing Tool 60mm
12813	Closing Tool (Old Type) 30mm
12814	Closing Tool (Old Type) 45mm
12815	Closing Tool (Old Type) 60mm

Seed Boot Selection

Part#	Description
11446	Seed Boot Straight 32mm
11447	Seed Boot Split 32mm
13710	Small Seed Boot 32mm

Press Wheel Selection See Chapter 16 for details.**Rear Scraper Selection**

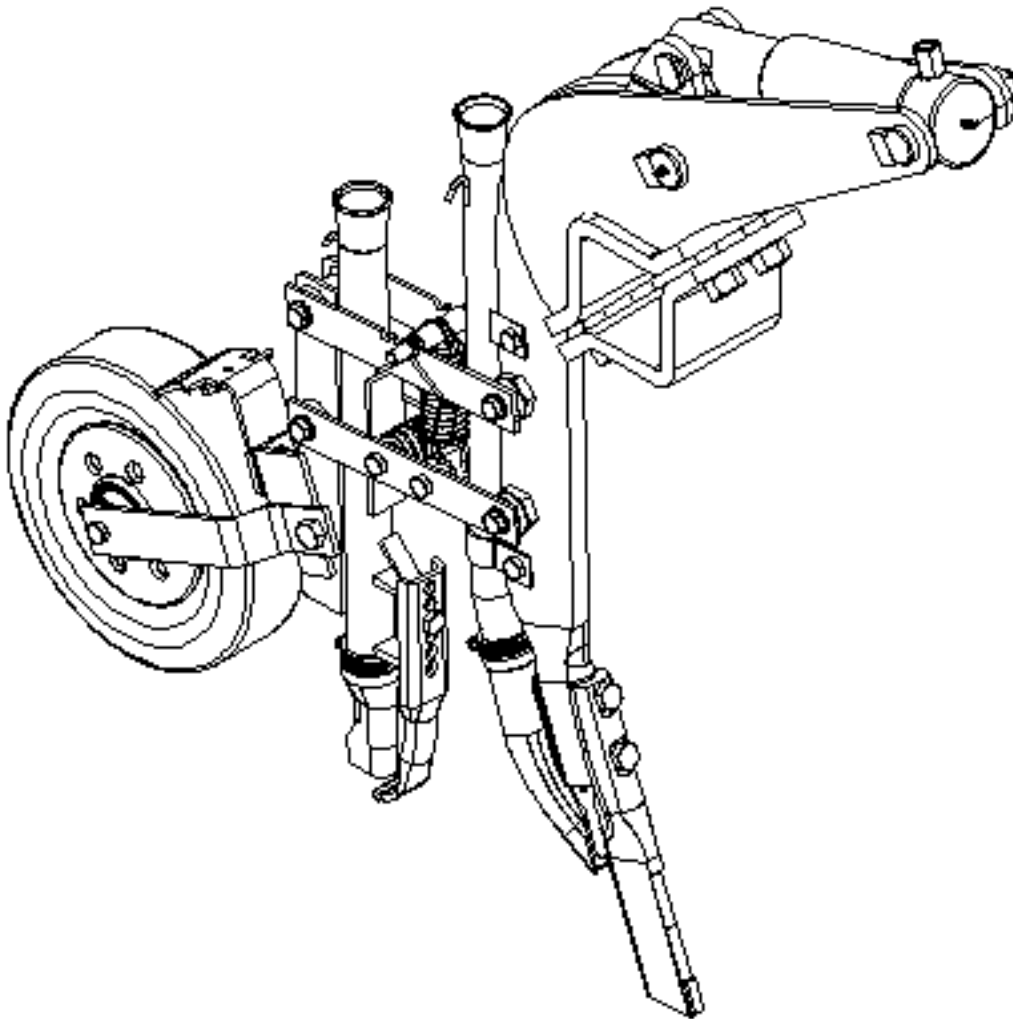
Part#	Description
11707	Scraper Blade 70mm V3 Tine (Suits 70mm Press Wheels)
11729	Scraper Blade 90mm V3 Tine (Suits 90mm Press Wheel)
11345	Spearscraper V3 Tine (Suits 50mm and V Press Wheel)

5.0 DBS Tine Assembly Version 2 & Earlier

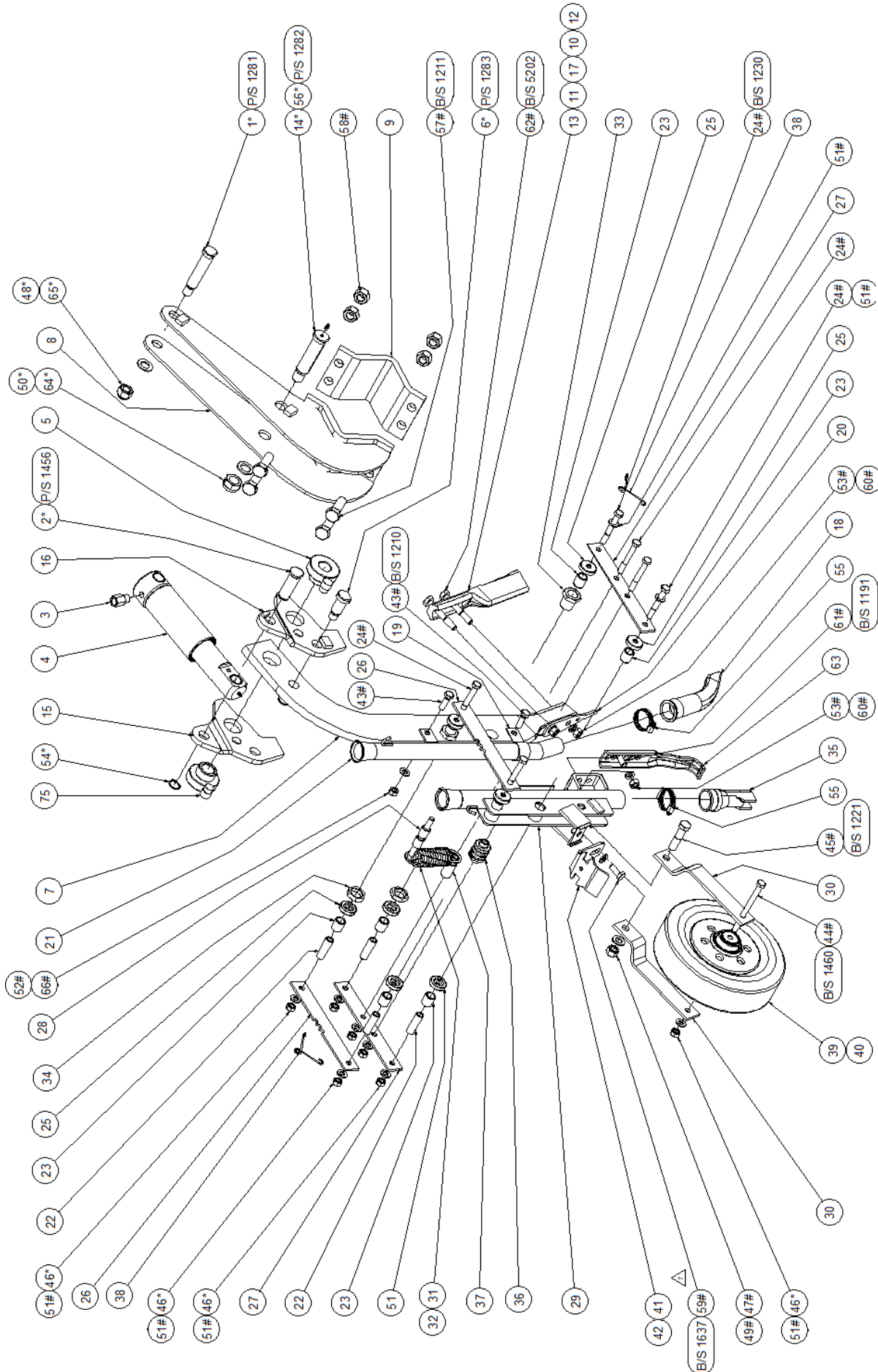
5.1 General Information

The Version 1 tine assembly is identified by its fixed C or banana shaped closing tool and adjustable height press wheel. Note that almost all Version 1 tine components are now obsolete.

The Version 2 tine assembly is identified by its black steel fertiliser and seed tubes, 3 notch side arms and short bent scraper.



5.2 Version 2 Tine Parts Listing



NOTE: ITEM No's WITH * OR # ARE
AVAILABLE AS PIN OR BOLT SETS
RESPECTIVELY
P/S = PIN SET No-
B/S = BOLT SET No-

AA-00-6043

NOTE: ITEM No's WITH * OR # ARE AVAILABLE AS
PIN OR BOLT SETS RESPECTIVELY

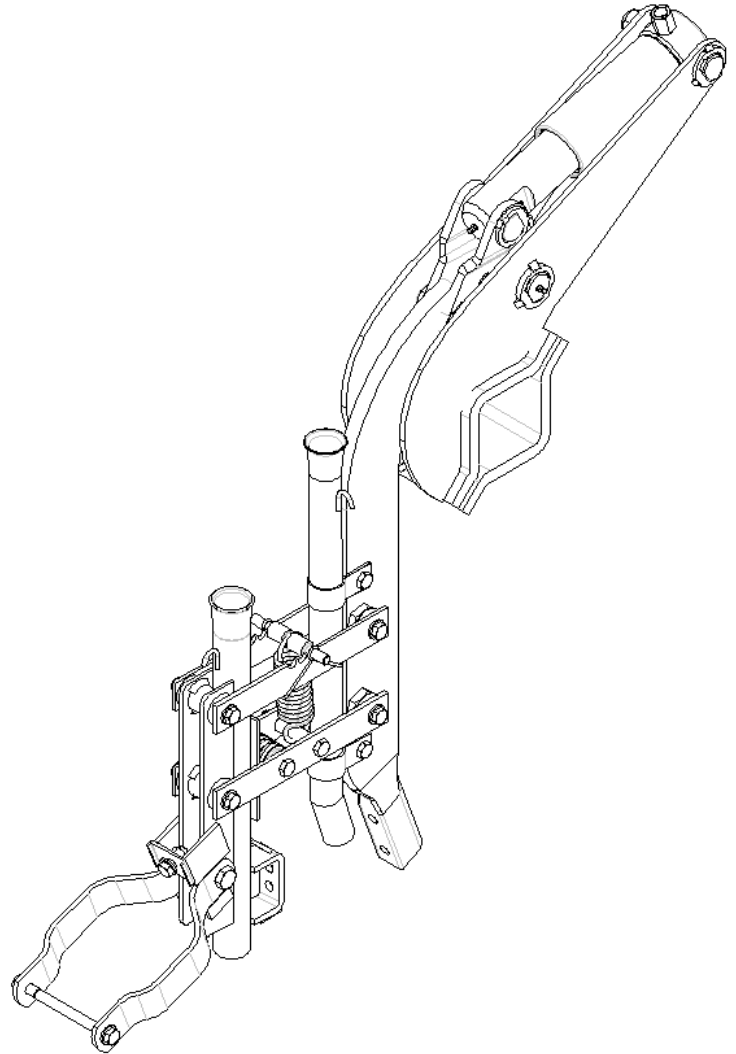
5.3 V2 Tine Assembly – Base Unit - #13772

Does not Include:

- Blade
- Closing Tool
- Press Wheel
- Scraper
- Fert Boot
- Finger
- Seed Boot

Blade Selection

Part#	Description
15830	Blade Adaptor Kit Pro-D
26992	Blade Pro-D 5-7 (5"-7")
27059	Blade Pro-D 7-9 (7"-9")
33358	Blade Pro-D Double Burster (7"-9")
01285	Blade Assembly – DBA 5"
05187	Blade Assembly – DBA 6"
01288	Blade Assembly – DBA 7"
01265	Blade Assembly – DBA 8"
01287	Blade Assembly – DBA 9"
11586	Blade Assembly - DBA 6" Liquid
11587	Blade Assembly - DBA 7" Liquid
11588	Blade Assembly - DBA 8" Liquid
11589	Blade Assembly - DBA 9" Liquid
05202	Bolt Set UNC 1/2x3 1/2 G8 (for DBA Blades, require x2)



Please Note:

The Fertiliser Tube upgrade kit must be used if fitting the Pro-D Fertiliser Boot Kit V2.

Fertiliser Boot Selection

Part#	Description
03136	Fertiliser Boot Kit V2 Pro-D
05101	Fertiliser Boot 39mm V2 Tine
09008	Hose Clamp 27-51mm Suit 39 & 42mm Boots
05227	Support Finger for V2 Fert Boot

Closing Tool Selection

Part#	Description
30132	Closing Tool Adaptor Kit V2 Pro-D
31817	Pro-D Closing Tool 30mm
31803	Pro-D Closing Tool 45mm
31816	Pro-D Closing Tool 60mm
12813	Closing Tool (Old Type) 30mm
12814	Closing Tool (Old Type) 45mm
12815	Closing Tool (Old Type) 60mm
01191	Closing Tool (Old Type) – Bolt set for V2 Tine

Press Wheel Selection See Chapter 16 for details.

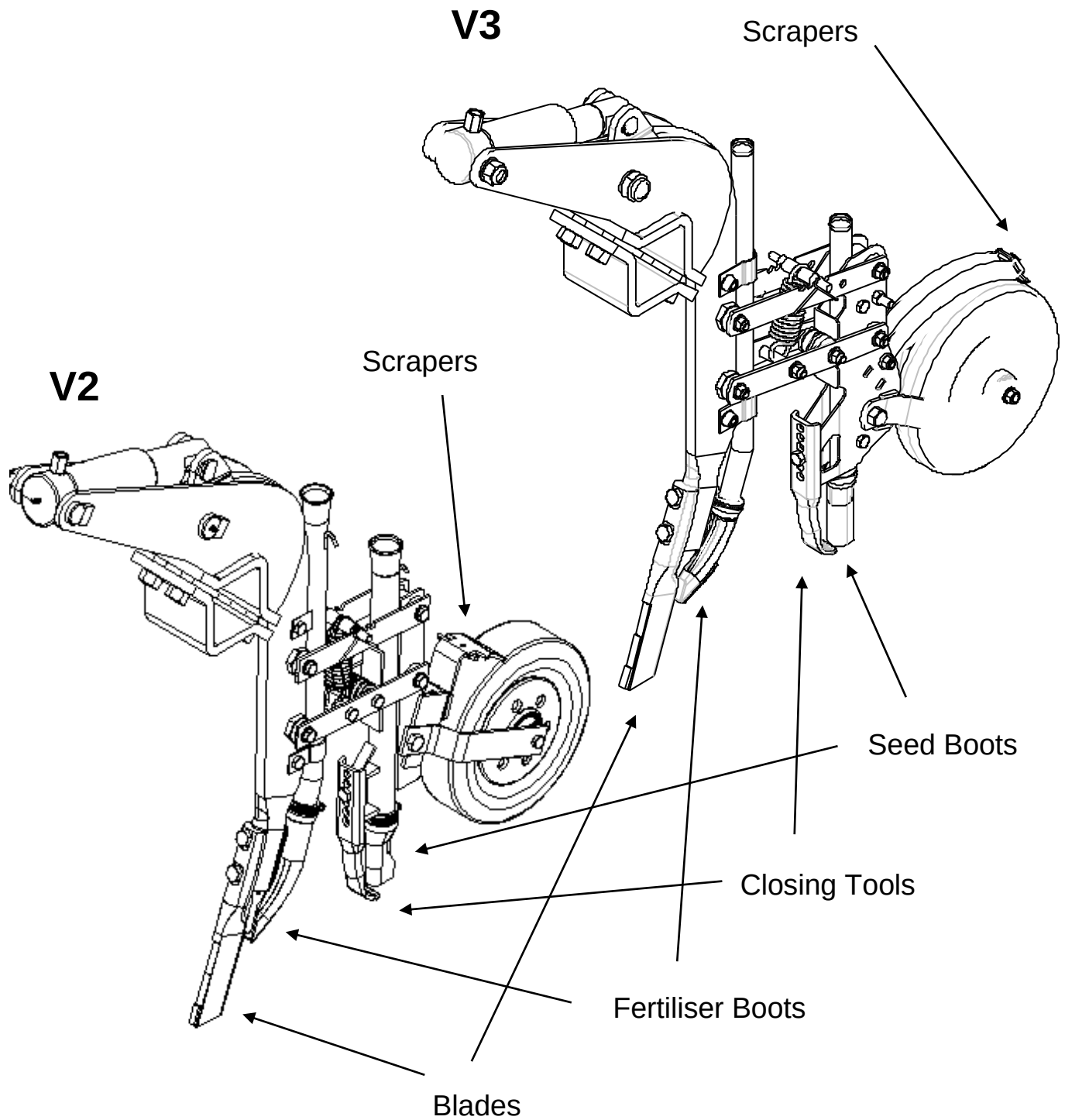
Rear Scraper Selection

Part#	Description
05298	Scraper Assembly - 70mm
11316	Scraper Assembly - 90mm

Seed Boot Selection

Part#	Description
05102	Seed Boot Straight 42mm
11487	Seed Boot Split 42mm
09008	Hose Clamp 27-51mm Suit 39mm & 42mm Boots

6.0 Wear Parts - Ground Engaging V3 & V2



6.1 General Information

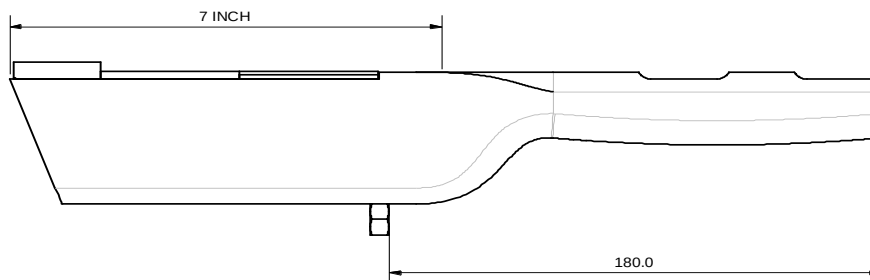
6.1.a Liquid Blades

All DBA blades, with the exception of 5" DBA's, can be ordered with a nut welded to the rear of the blade. This nut is used to support the lower end of the Ausplow deep banding liquid tube.

6.1.b Procedure for Attaching Liquid Nut

Alternatively, an M8 nut can be welded to a standard blade using the following procedure:

- Using an Arc or MIG Welder:
 - Preferably use a low hydrogen 2.5 rod (Arc only),
 - If not available, use a 3.2 low hydrogen rod (Arc only),
 - Pre-heat the rear of the blade to hand touch, approximately 60° – 70° C (localised heat only) to reduce the risk of cracking,
 - Weld the nut to the back of the blade as shown. The distance-to-top measurement of 180mm is the same for all blades:



- Let welded blades cool slowly. Preferably, if welding a batch, place the welded blades in a small drum or heat resistant bag together so as to slow overall cooling.



CAUTION!

Excessive pre-heating of the blade may damage the solder strength of the tungsten-to-blade bond.



CAUTION!

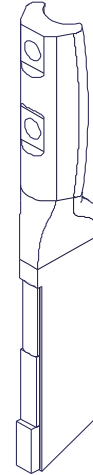
Excessive and rapid cooling of the blade (submersing in water) may cause the weld between the nut and the back of the blade to crack.

6.2 Blade Selection

See the DBS Operators Manual for information when selecting the appropriate blade length for the required operating conditions.

6.3 Blades DBA - no Liquid Nut

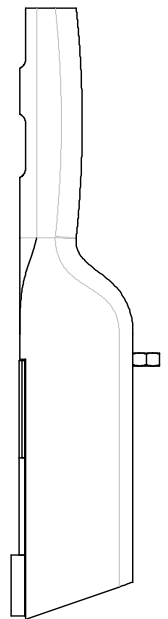
Part #	Description
01285	DBA 5" BLADE 80mm TUNGSTEN
05187	DBA 6" BLADE 130mm TUNGSTEN
01288	DBA 7" BLADE 130mm TUNGSTEN
01265	DBA 8" BLADE 130mm TUNGSTEN
01287	DBA 9" BLADE 130mm TUNGSTEN
05202	BOLT SET ½" UNC x 3 ½" G8



6.4 DBA Liquid Blades – DBA with Nut

Part #	Description
11586	DBA 6" BLADE 130mm TUNGSTEN & LIQUID NUT
11587	DBA 7" BLADE 130mm TUNGSTEN & LIQUID NUT
11588	DBA 8" BLADE 130mm TUNGSTEN & LIQUID NUT
11589	DBA 9" BLADE 130mm TUNGSTEN & LIQUID NUT
05202	BOLT SET ½" UNC x 3 ½" G8

Part #	Description
09125	M8 NUT USE TO CONVERT STD BLADE TO LIQUID

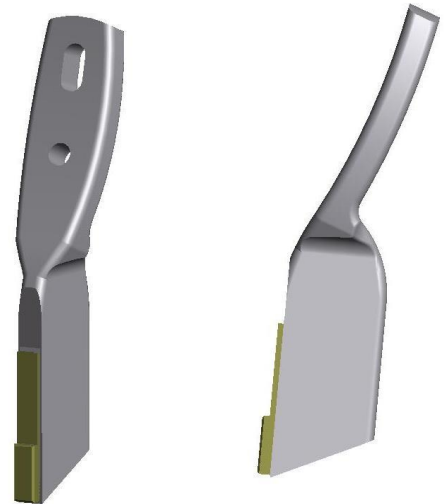


See procedures for attaching liquid nut to convert standard blades to liquid blades.

Note: 5" blades are not suitable for use with liquid fertilisers.

6.5 DBF Blades

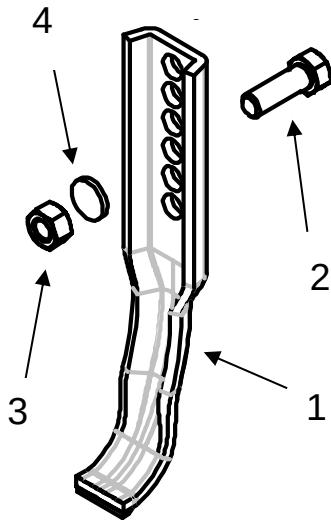
Designed to suit other manufactures with M12 Bolts from 43.5mm to 58mm hole distance Centre to Centre.



Item #	Qty	Part #	Description
1	1	05650	DBF/S25-80 5" BLADE 80mm TUNGSTEN
NS		05651	DBF/S26-130 6" BLADE 130mm TUNGSTEN

6.6 Closing Tools

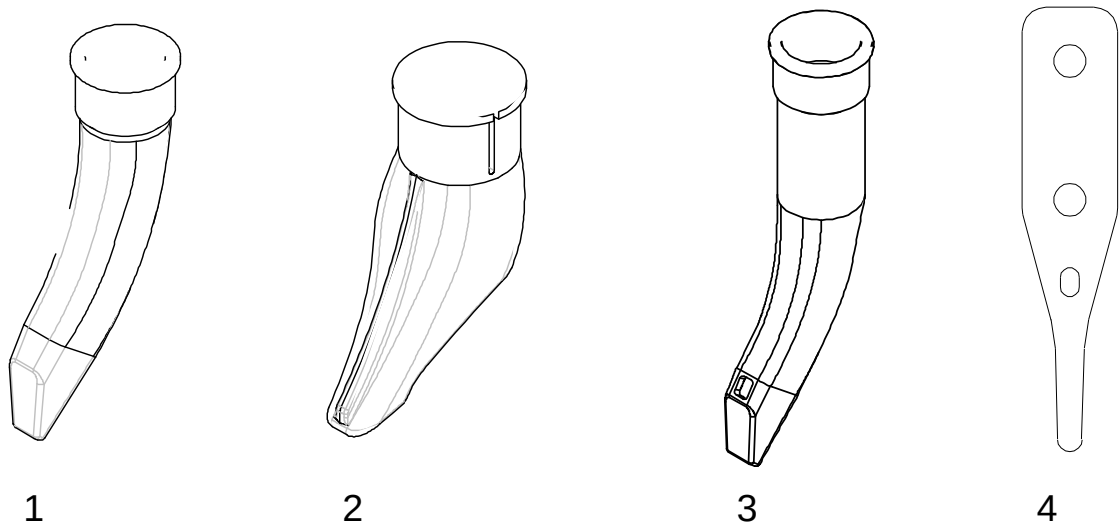
Closing tools fitted to Version 2 and Version 3 tines. Some Version 1 tines have been upgraded to use this adjustable closing tool.



Item #	Qty	Part #	Description
1	1	12813	CLOSING TOOL ASSY 30mm
	1	12814	CLOSING TOOL ASSY 45mm
	1	12815	CLOSING TOOL ASSY 60mm
2	1	09155	BOLT 1/2"x 1 3/4" UNC – For V3 TINE
	1	09013	BOLT 1/2"x 1 1/4" UNC – For V2 TINE
3	1	09014	NUT 1/2" UNC
4	1	09015	WASHER SPRING 1/2"
2,3,4	1	01191	CLOSING TOOL BOLT SET <u>V2 TINE</u>

The 60mm closing tool must be fitted if a split seed boot Part # 11446 or Part # 11487 is being used.

6.7 Fertiliser Boots for V2 & V3



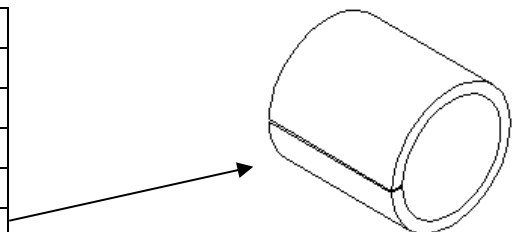
Item #	Qty	Part #	Description
1	1	11445	FERTILISER BOOT 32mm ID SUIT V3 TINE (2007 ON)
2	1	12344	FERTILISER BOOT SHORT 32mm ID SUIT V3 TINE (2007 ON)
NS	1	09086	HOSE CLAMP SUIT 32mm ID BOOTS
3	1	05101	FERTILISER BOOT 39mm ID SUIT V2 TINE (1998-2006)
NS	1	09008	HOSE CLAMP SUIT 39mm ID & 42mm ID BOOTS
4	1	05227	SUPPORT FINGER SUIT V2 TINE FERT BOOT ONLY
NS	NLA	01158	FERTILISER TUBE SHIELD SUIT VERSION 1 TINE

Item 1 (Part # 11445) is recommended for use primarily in sandy soils.

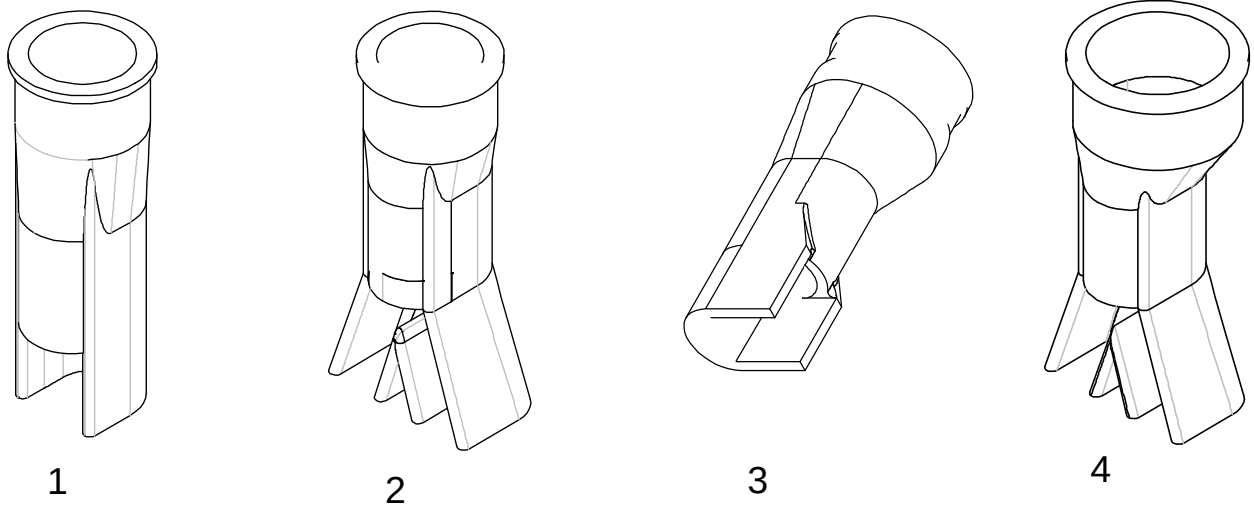
Item 2 (Part # 12344) is recommended for use primarily in clay type soils.

Part # 11215 is used to fit Version 2 Tine Fert boot to Version 3 SS Fert tube.

Qty	Part #	Description
All	11215	FERT BOOT KIT V2 BOOT - V3 TUBE
1	05101	BOOT FERT 39mm ID V2 TINE
1	05227	SUPPORT FINGER FERT BOOT
1	09008	HOSE CLAMP 27-51mm SS
1	27202	LONG FERT BOOT V2 ADAPTOR



6.8 Seed Boots



Item #	Qty	Part #	Description
1	1	11446	SEED BOOT STRAIGHT 32mm ID SUIT V4 & V3 TINE (2007 ON)
2	1	11447	SEED BOOT SPLIT 32mm ID SUIT V4 & V3 TINE (2007 ON)
NS	1	09086	HOSE CLAMP SUIT 32mm ID BOOTS
3	1	05102	SEED BOOT STRAIGHT 42mm ID SUIT V2 TINE (1998-2006)
4	1	11487	SEED BOOT SPLIT 42mm ID SUIT V2 TINE (1998-2006)
NS	1	09008	HOSE CLAMP SUIT 39mm ID & 42mm ID BOOTS

The 60mm closing tool must be fitted if a split seed boot Part #11447 or Part #11487 is used.

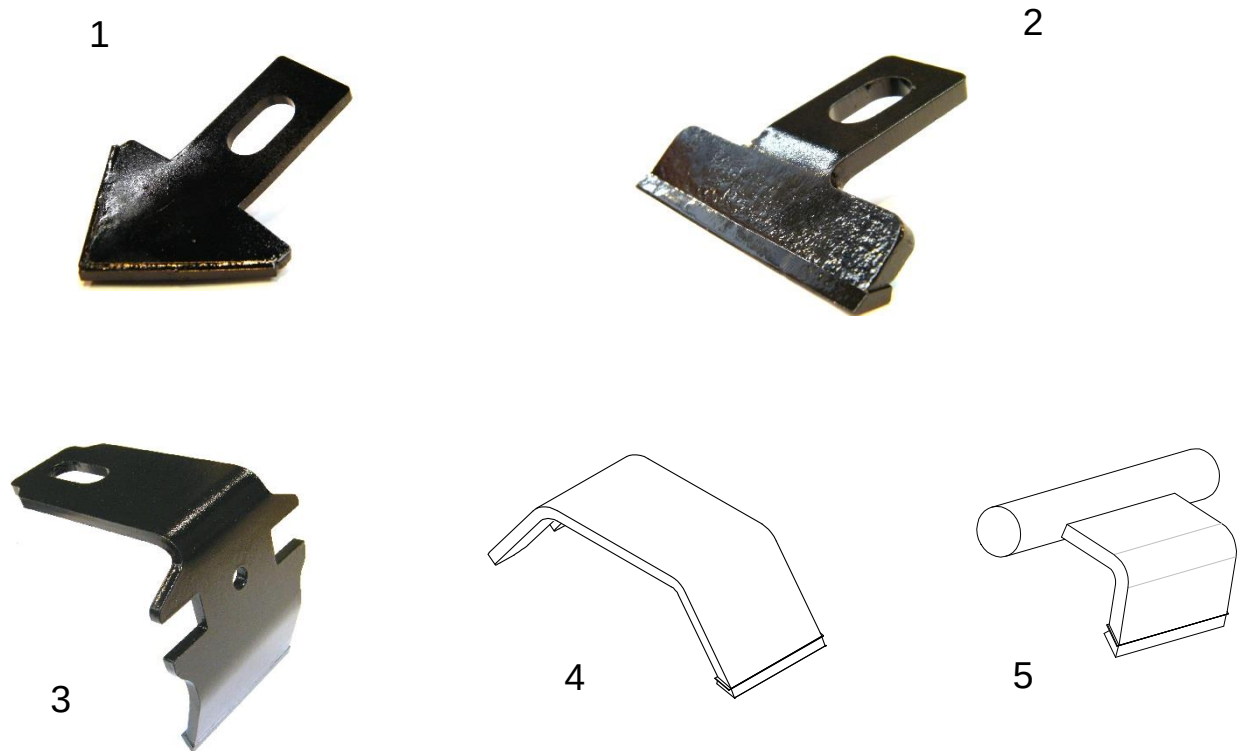
6.9 Small Seed Boots



Item #	Qty	Part #	Description
1	1	13710	BOOT SMALL SEEDS – 32mm ID SUIT V4 & V3 TINE
2	1	13709	BOOT SMALL SEEDS – 42mm ID SUITS V2 TINE

The 60mm closing tool must be fitted if a small seed boot Part #13710 or Part #13709 is used.

6.10 Scrapers for V2 & V3 Tines



Item #	Qty	Part #	Description
1	1	11345	SPEAR SCRAPER SUIT V3 TINE (2007 - 2015)
		11345	SPEAR SCRAPER SUIT V3 TINE WITH V WHEEL OPTION
2	1	11707	FLAT SCRAPER 70mm SUIT V3 TINE (2007 - 2015)
NS		11729	FLAT SCRAPER 90mm SUIT V3 TINE (2007 - 2015)
NS	1	12129	BOLT SET M10 SUIT SCRAPERS V3 & V WHEEL OPTION
3	1	05298	SCRAPER 70mm SUIT V2 TINE (1998-2006)
NS		11316	SCRAPER 90mm SUIT V2 TINE (1998-2006)
NS	1	01637	BOLT SET M12 SUIT SCRAPERS V2 (NOT MUD OPTION)
4	NLA	01370	SCRAPER 50mm SUIT VERSION 1 TINE
5	NLA	08695	SCRAPER 70mm PIVOT BOLT MOUNTED

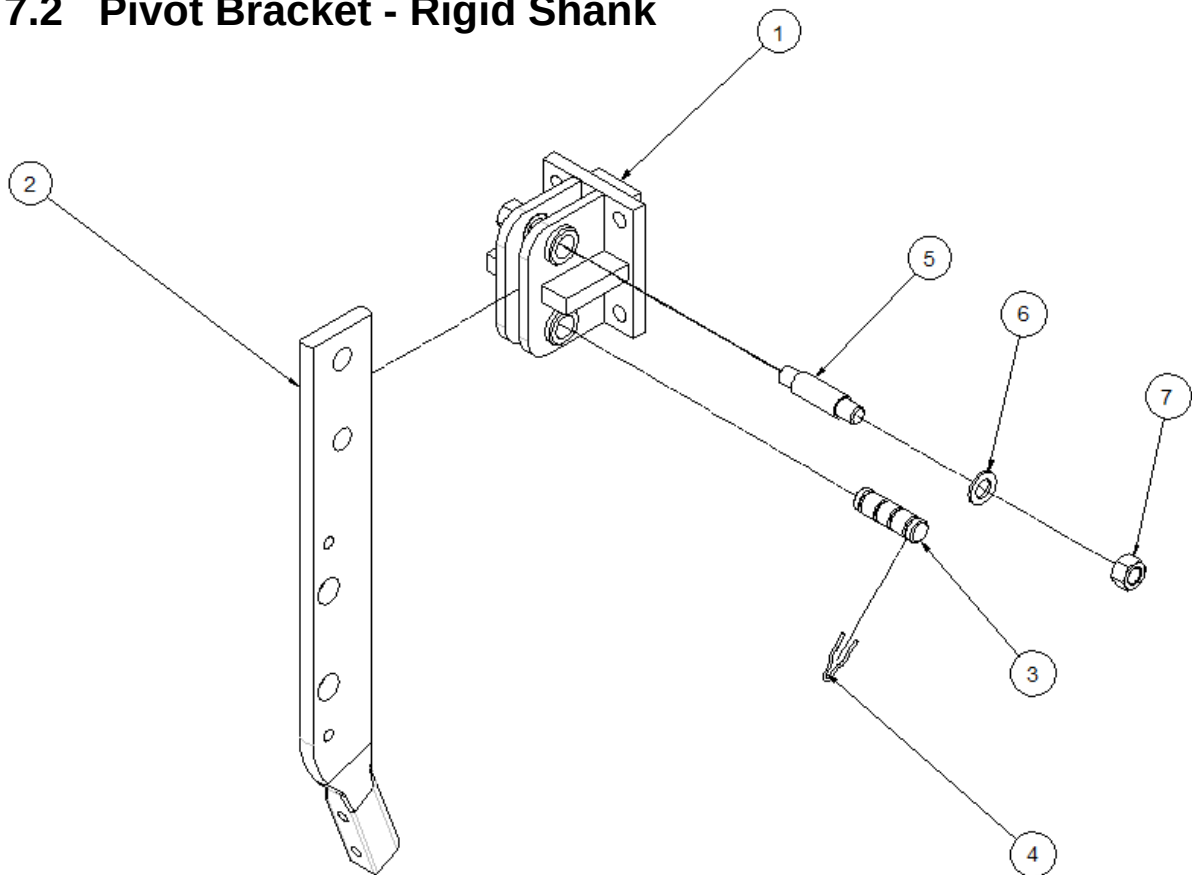
7.0 Pivot Brackets

7.1 General Information

Ausplow has used 2 different Tine Pivot Brackets on the DBS. They are:

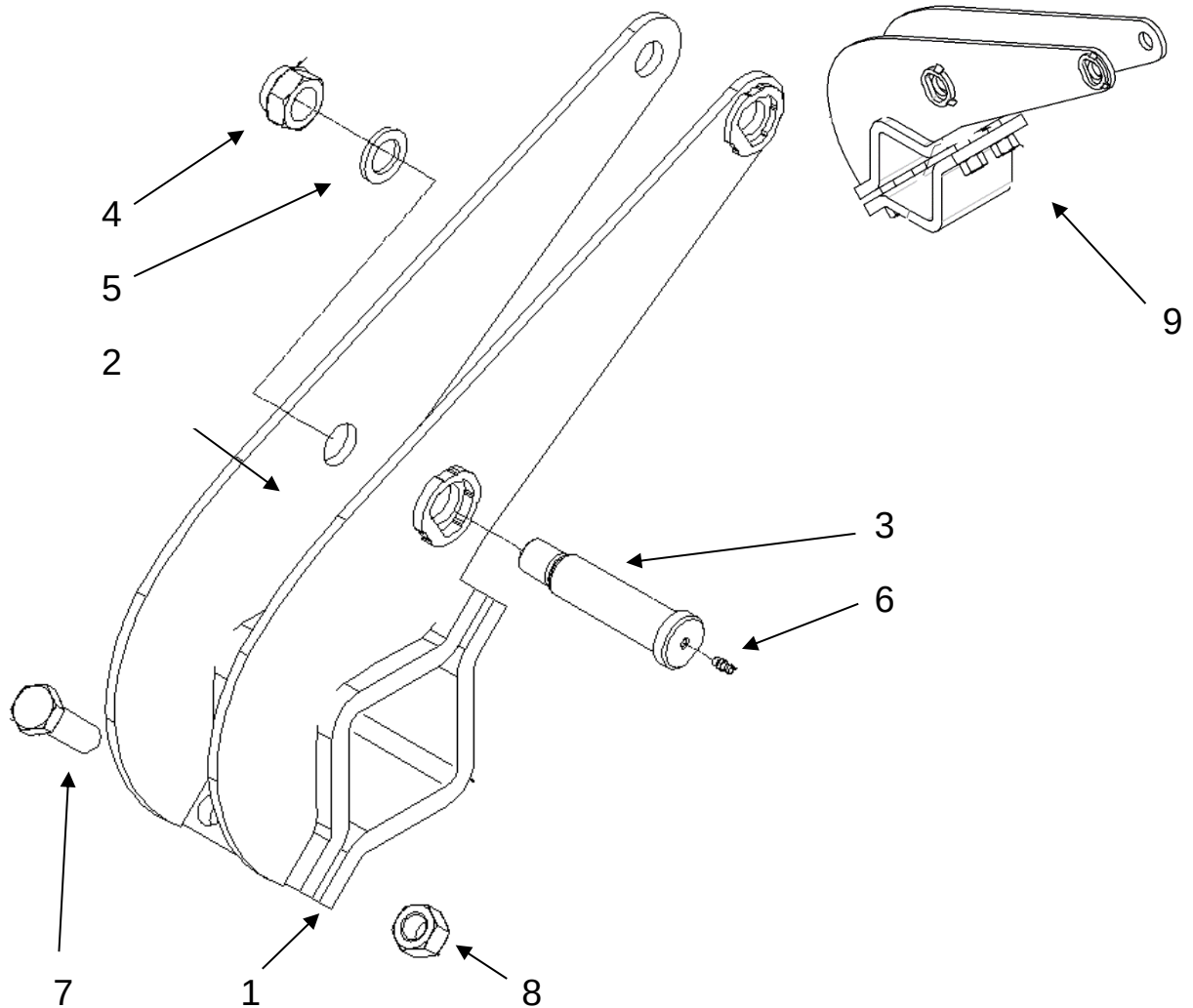
- Rigid shank pivot bracket (fitted with a shear pin).
- Recoil shank pivot bracket (fitted with a hydraulic jump cylinder).

7.2 Pivot Bracket - Rigid Shank



Item #	Qty	Part #	Description
1	1	28927	MOUNTING BRACKET DBS RIGID SHANK
2	1	01398	RIGID SHANK
3	1	02041	SHEAR PIN DBS RIGID SHANK ONLY
4	2	02042	SHEAR PIN RETAINER CLIP
5	1	02166	PIVOT PIN RIGID SHANK
6	2	09003	WASHER FLAT M20
7	2	09389	HEX NUT M20

7.3 Pivot Bracket - Recoil Shank



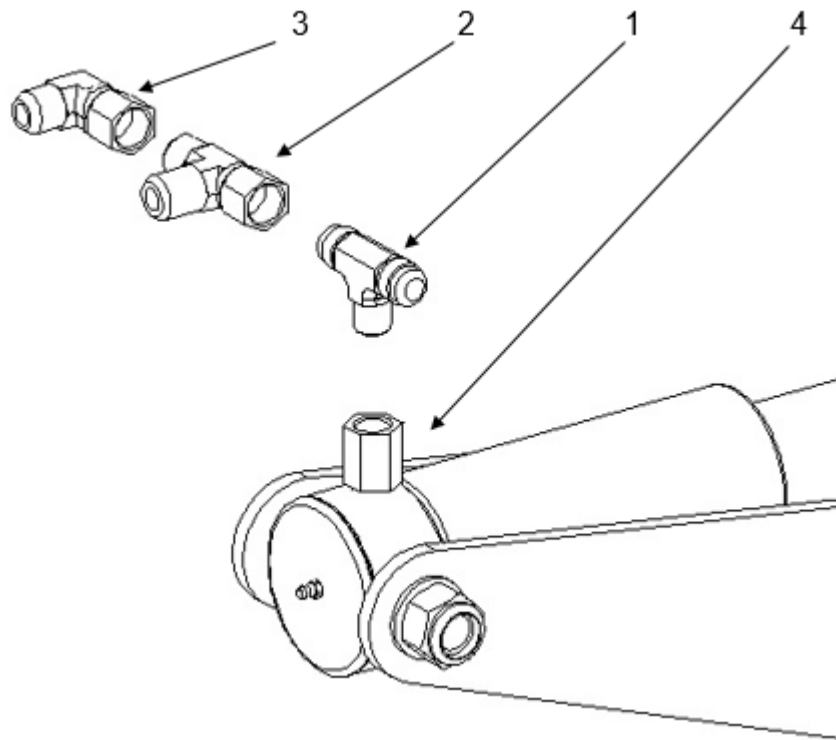
Item #	Qty	Part #	Description
1	1	01162	CLAMP PLATE- PIVOT BRACKET
2	1	01160	PIVOT BRACKET ASSY
SET	1	01282	PIN SET (ITEMS 3,4,5,& 6)
3	1	01368	PIN SHANK PIVOT - 30 x 102mm LG
4	1	09030	NUT M24 Nylock
5	1	09029	WASHER FLAT M24
6	1	09001	GREASE NIPPLE ¼" BSW STRAIGHT
	1	04278	GREASE NIPPLE 6mm STRAIGHT (2024 On)
SET	4	01211	BOLT SET PIVOT BRACKET (ITEMS 7 & 8)
7	4	09388	BOLT M20 GRADE 10.9
8	4	09389	NUT M20 GRADE 10.9
9	1	05975	TINE PIVOT BRACKET ASSEMBLY

8.0 Jump Cylinder & Valve

8.1 General Information

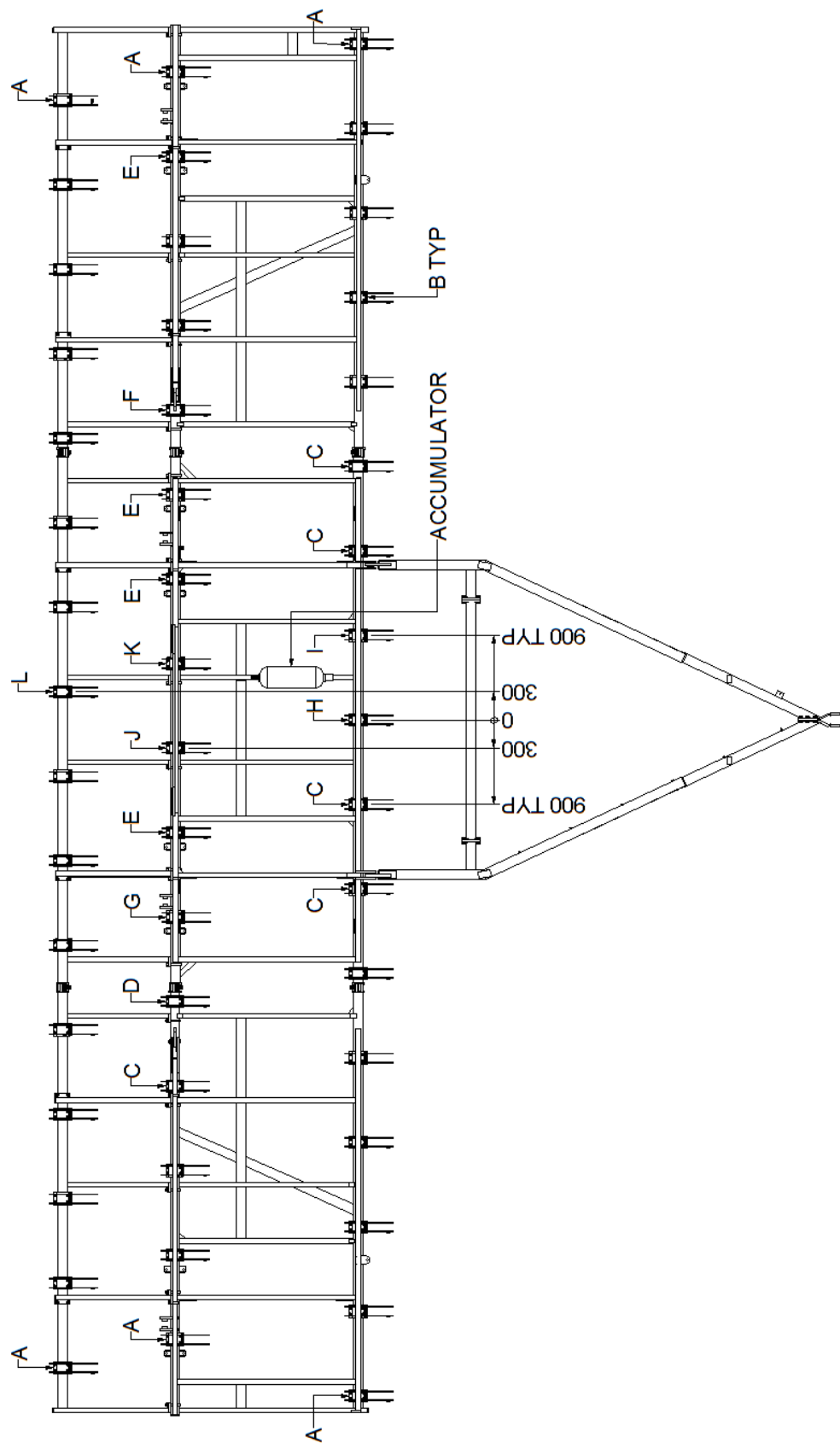
Early jump cylinders had a narrow (20mm) piston rod end and were used with tine assemblies that had straight cheek plates. From 2000 onwards jump cylinders had wider (41mm) piston rod ends fitted to tine assemblies with joggled cheek plates.

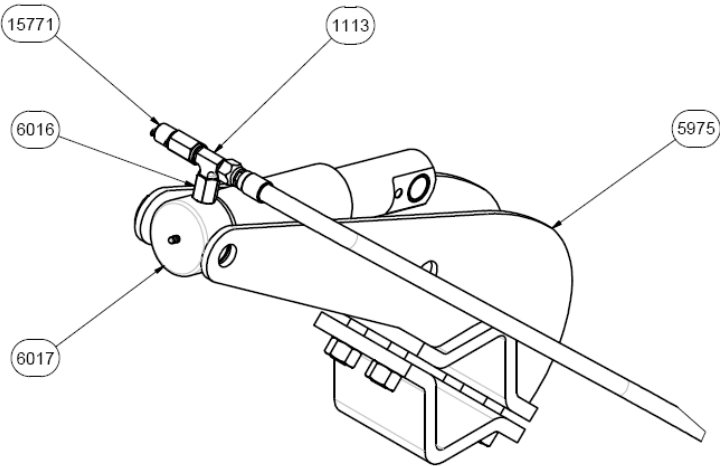
8.2 Jump Cylinder Hydraulic Hoses & Fittings



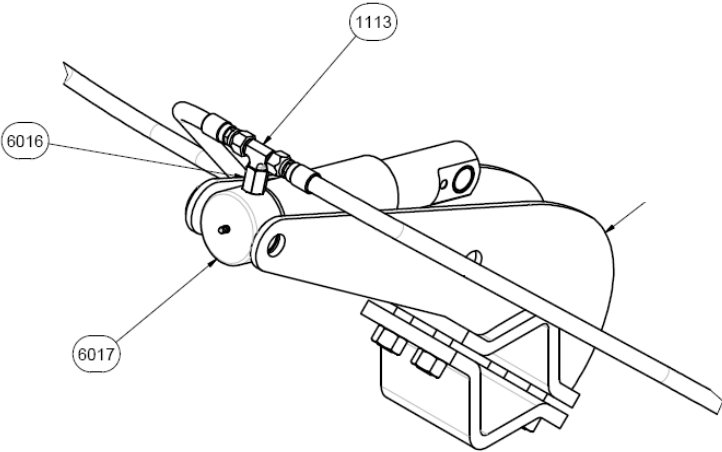
Item #	Qty	Part #	Description
1	1	01113	TEE ¾ JIC x ¾ JIC x ⅜" BSPT
2	1	05039	TEE ¾ JICF X ¾ JICM X ⅜" JICM
3	1	05012	ELBOW 90DEG ¾ JICM x ⅜" JICFS
4	1	06016	CUSHION VALVE
NS	1	05561	JUMP HOSE SUIT 260mm TINE SPACING
NS	1	05557	JUMP HOSE SUIT 300mm TINE SPACING

Jump Cylinder Hose Configuration – A to L

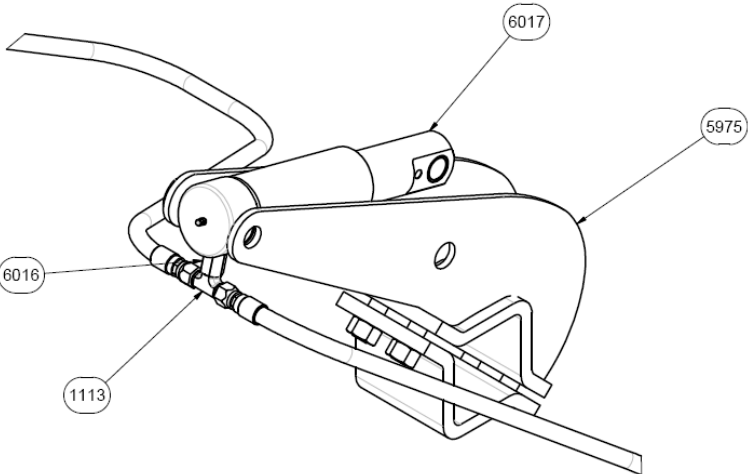




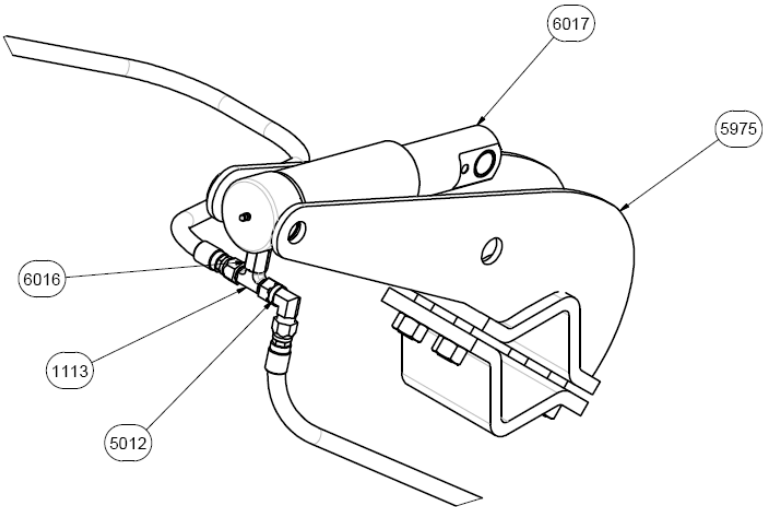
TERMINATING JUMP CYL LAYOUT
A



STANDARD JUMP CYL LAYOUT
B

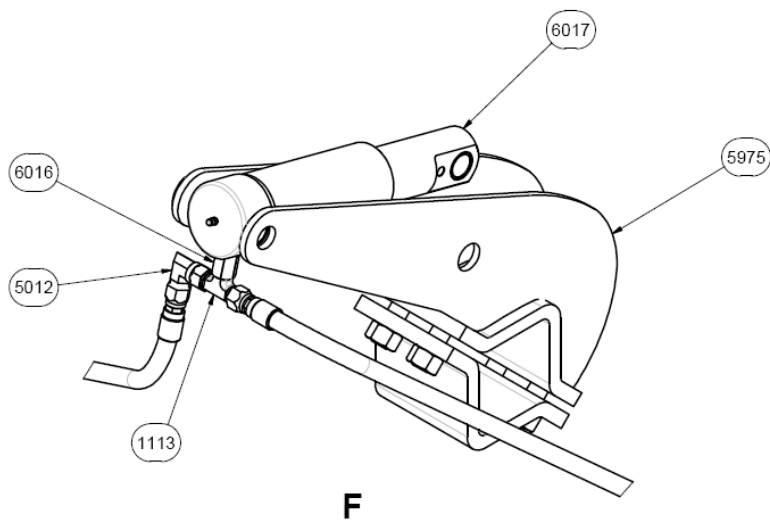
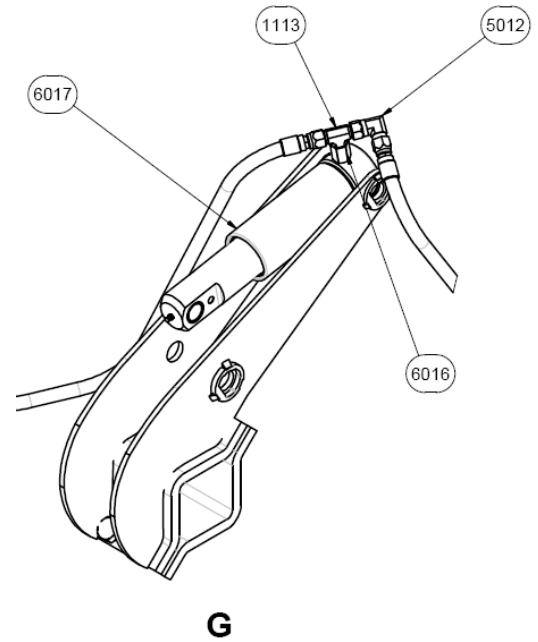
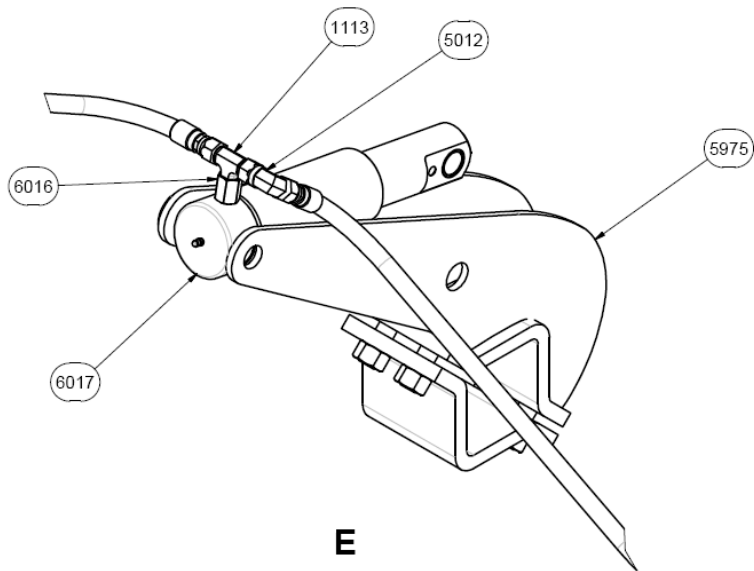


C

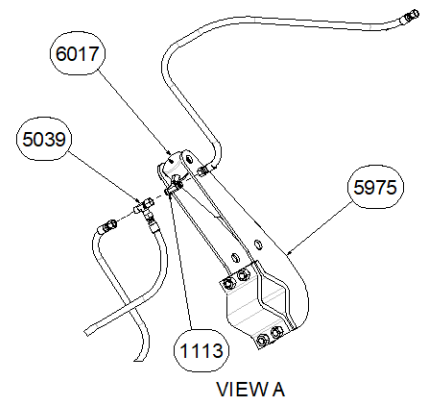
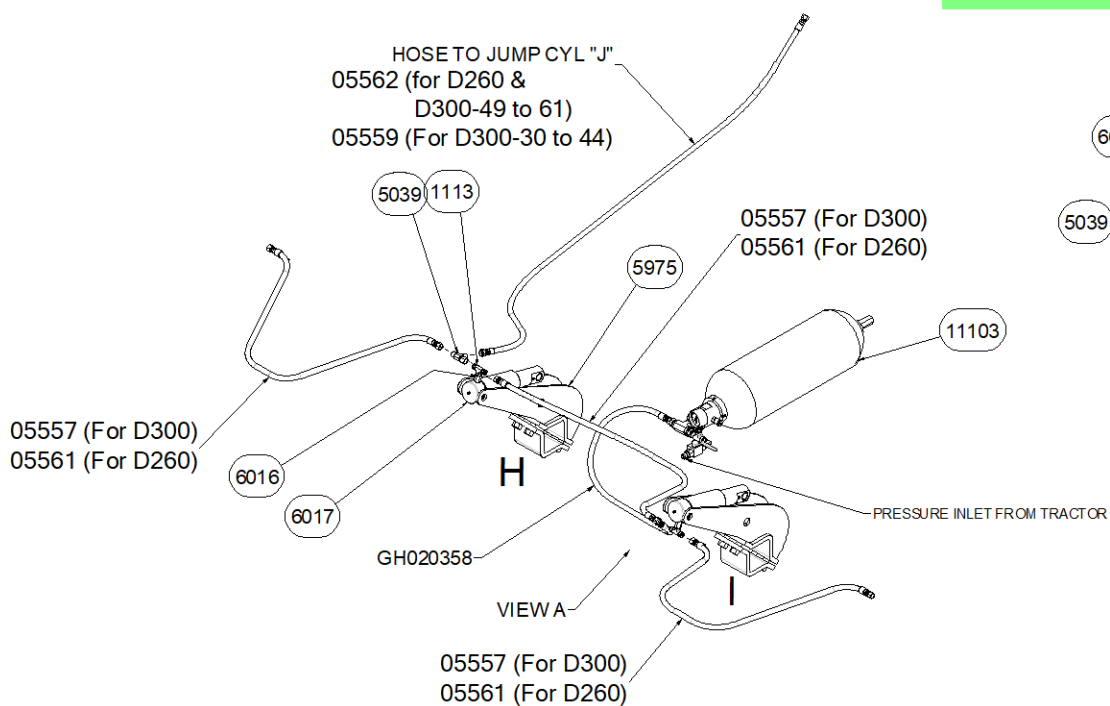


D

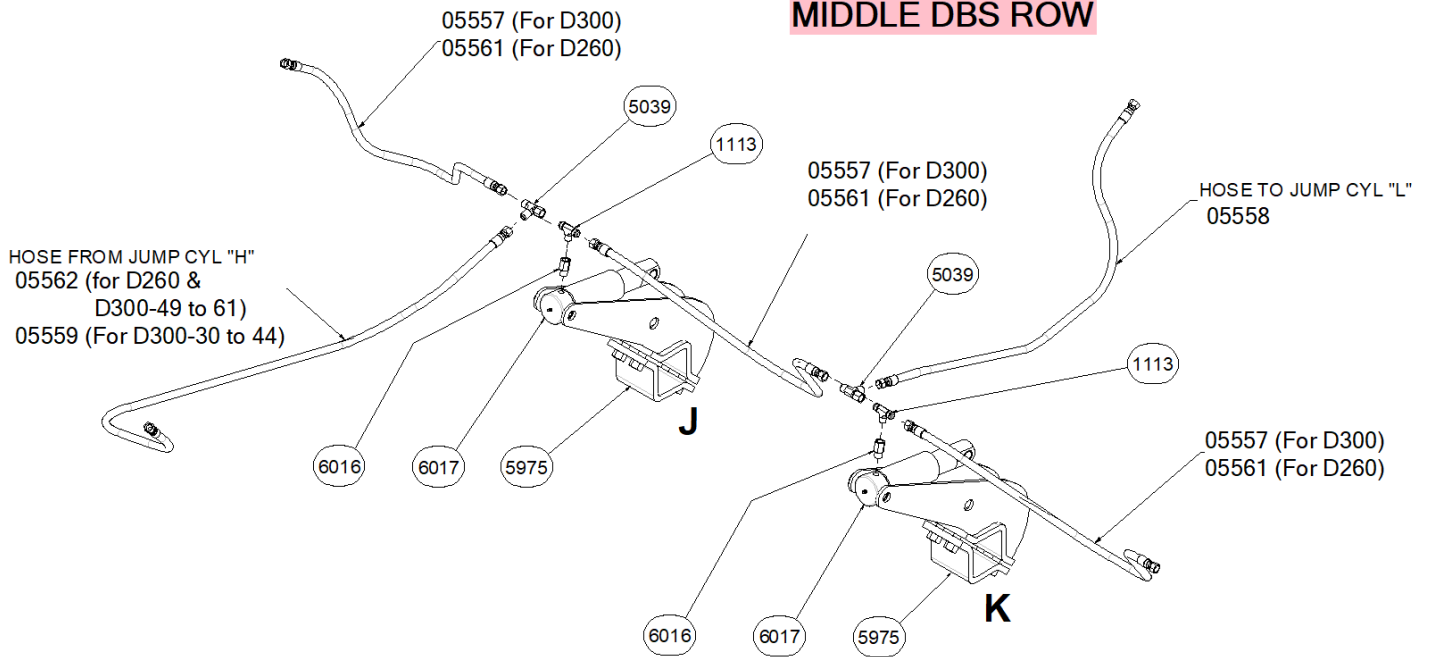
Ausplow DBS Tine Spare Parts Manual



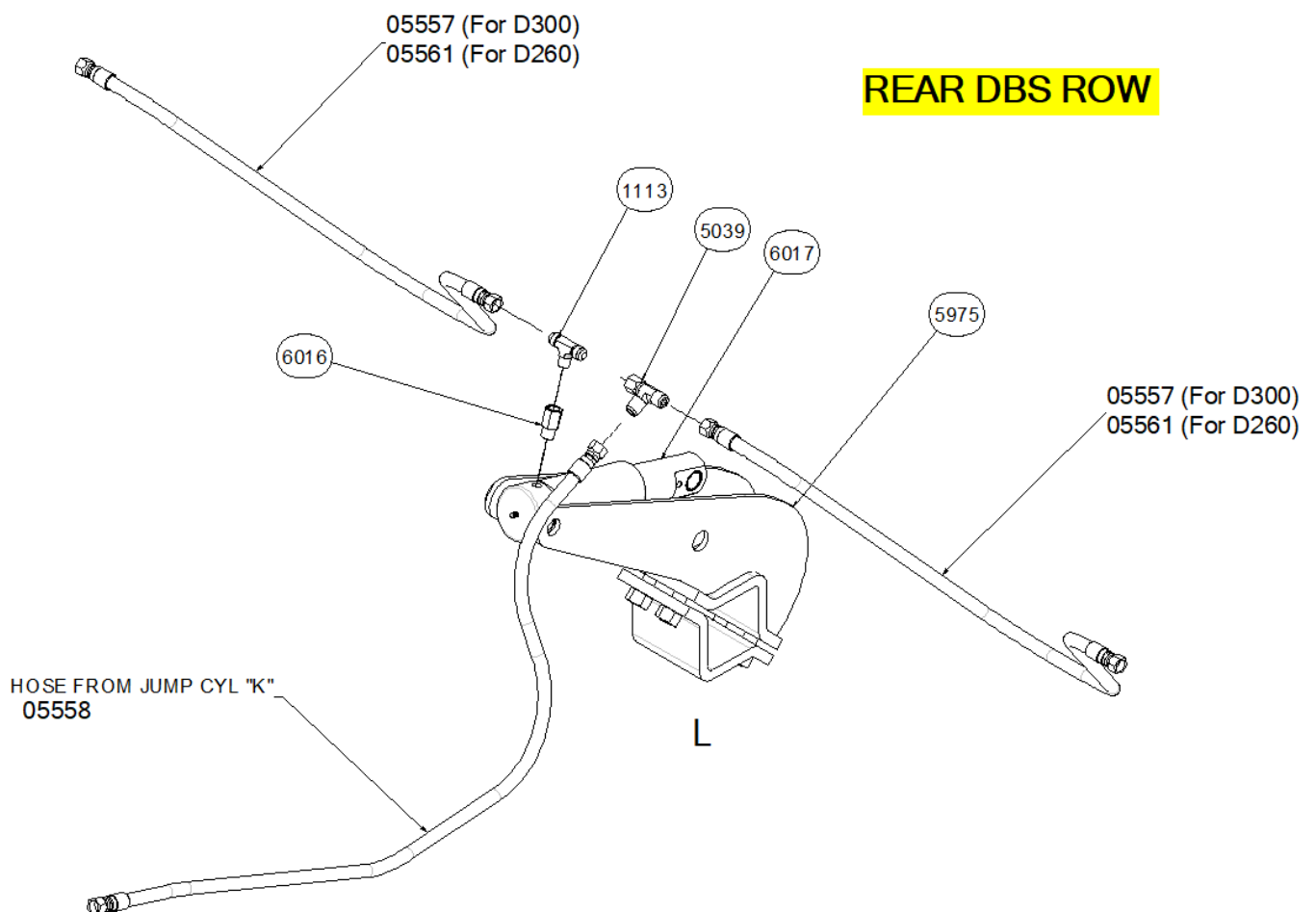
FRONT DBS ROW



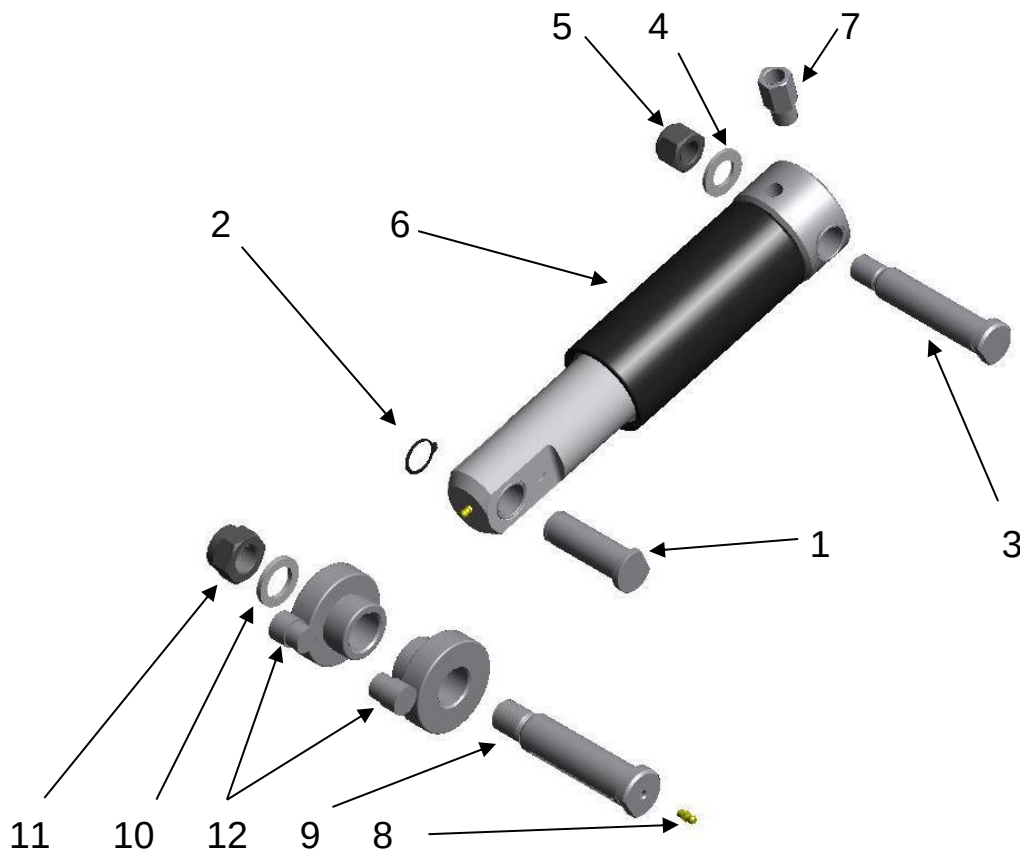
MIDDLE DBS ROW



REAR DBS ROW



8.3 Jump Cylinder, Pins & Pivot Bush – Current



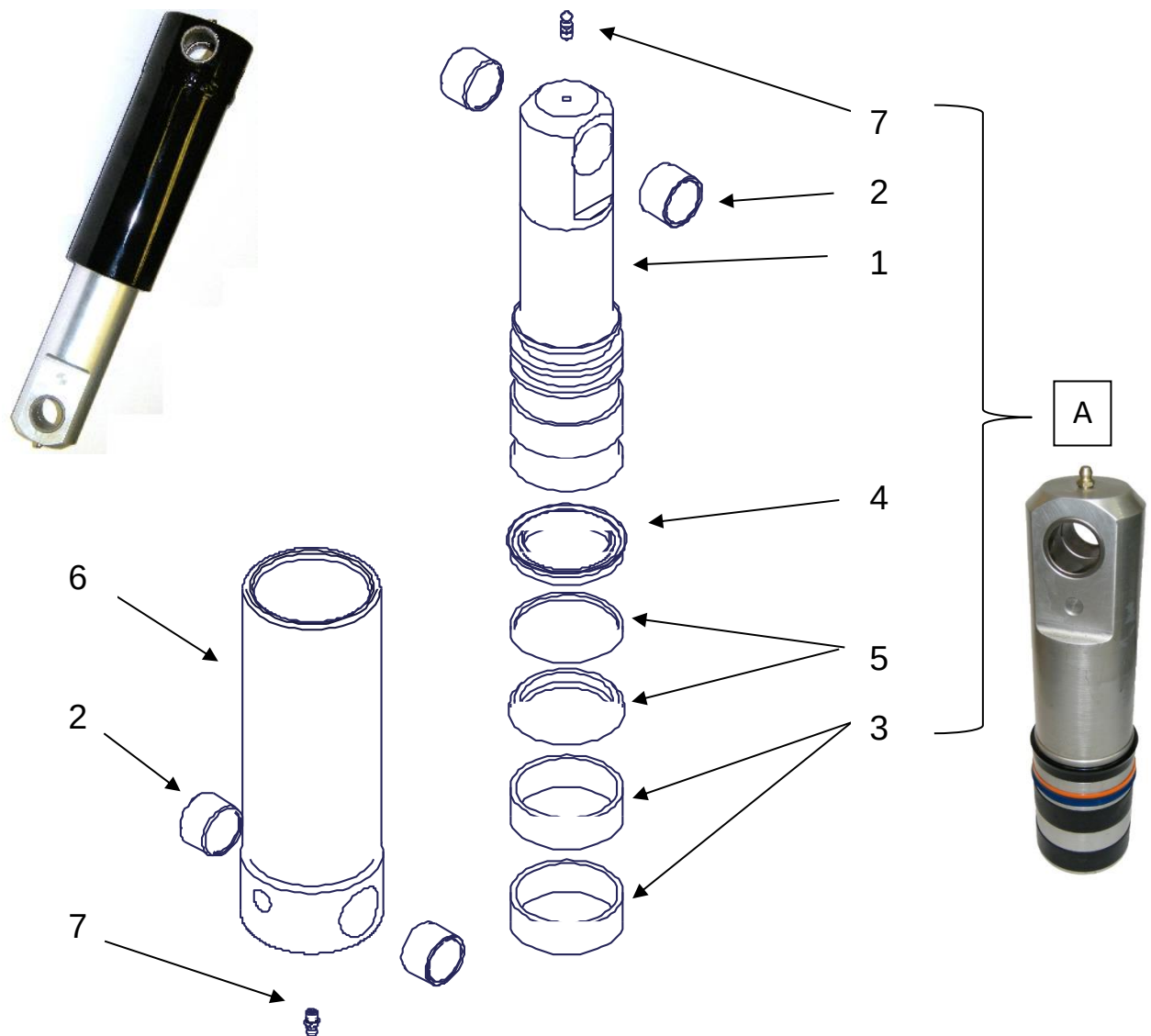
Please Note:

Some machines 2020-2021 were fitted with recessed washer #33623 in Pin Set 01282 instead of standard washer #09024.

Item #	Qty	Part #	Description
ALL	1	05976	DBS JUMP CYLINDER, CHECK VALVE, PIN & PIVOT PINS
SET	1	01456	PIN SET JUMP CYL ROD END (ITEMS 1 & 2)
1	1	01436	PIN 25 x 75mm JUMP CYL ROD END
2	1	09007	RETAINING RING SPIROLOX SS
SET	1	01281	PIN SET JUMP CYLINDER BASE (ITEMS 3,4 & 5)
3	1	01179	PIN JUMP CYL BASE
4	1	09003	WASHER FLAT M20
5	1	09002	NUT M20 Conelock
6	1	06017	JUMP CYLINDER ASSEMBLY
7	1	06016	VALVE CUSHION RETURN
SET	1	01282	PIN SET SHANK PIVOT SET (ITEMS 8,9,10 & 11)
8	1	09001	GREASE NIPPLE ¼" BSW STRAIGHT
	1	04278	GREASE NIPPLE 6mm STRAIGHT (2024 On)
9	1	01368	PIN 30 x 102mm SHANK PIVOT
10	1	09029	WASHER FLAT M24
11	1	09030	NUT M24 Nylock
12	2	01125	SHANK PIVOT BUSH ASSEMBLY



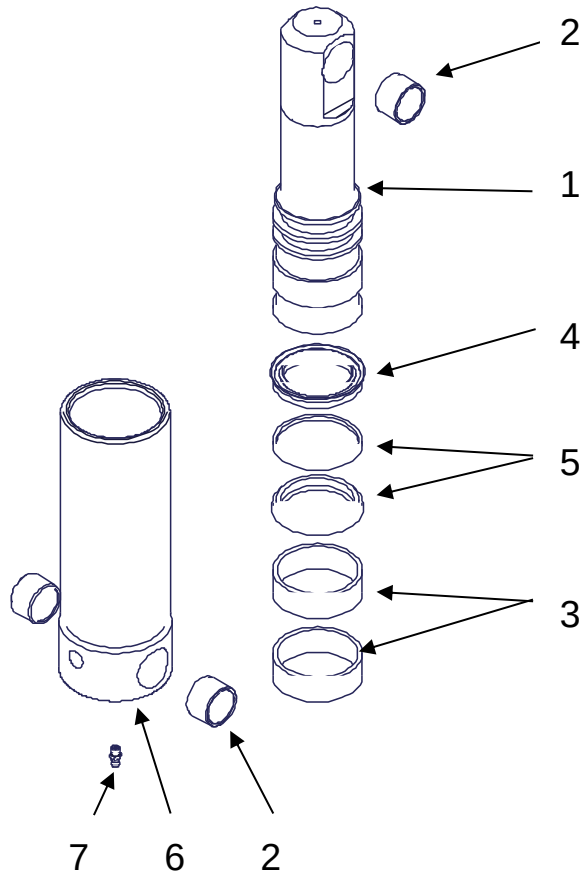
8.4 Jump Cylinder Seals & Parts - Current



Item #	Qty	Part #	Description
ALL	1	06017	JUMP CYLINDER ASSEMBLY
1	1	12057	JUMP CYLINDER 70mm ALUMINIUM PISTON
2	4	06015	BUSH SINTERED NICKEL
3	2	06051	BEARING RING JUMP CYLINDER
4	1	06052	SEAL WIPER
5	1	06050	PISTON SEAL c/w BACKING RING
6 & 2	1	27610	JUMPER CYL BARREL c/w BUSHES
7	2	09001	GREASE NIPPLE ¼" BSW STRAIGHT
	2	04278	GREASE NIPPLE 6mm STRAIGHT (2024 On)
A	1	14051	JUMP CYLINDER PISTON & SEAL ASSY

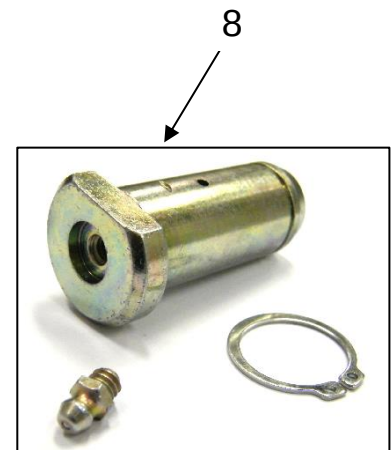
Note: These seals & parts will only fit jump cylinders on tines fitted with current joggled cheek plates.

8.5 Jump Cylinder Seals & Parts - Early Production



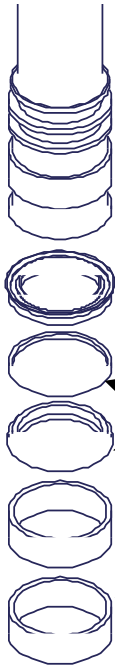
Picture is for illustrative purposes only.

Does not represent the exact early production cylinder that had narrow head approx. 20mm wide.



Item #	Qty	Part #	Description
All	ORB 06017	01180	JUMP CYLINDER ASSEMBLY 98
ALL	1	06017	JUMP CYLINDER ASSEMBLY
1	ORB 12057	01172	JUMP CYLINDER PISTON V1
	1	12057	JUMP CYLINDER PISTON ALUMINIUM
2	3	02011	BUSH 25x30x20.5 TO SUIT V1
2	4	06015	BUSH 25x30x20 TO SUIT CURRENT
3	2	XXXX	SEE SECTION 8.6
4	1	XXXX	SEE SECTION 8.6
5	1	XXXX	SEE SECTION 8.6
6 & 2	1	27610	JUMP CYL BARREL c/w BUSHES
7	2	09001	GREASE NIPPLE ¼" BSW STRAIGHT
	2	04278	GREASE NIPPLE 6mm STRAIGHT (2024 On)
8	1	01280	PIN SET OLD NARROW JUMP CYL PISTON

8.6 Jump Cylinder Seal Kits



Check seal widths BEFORE ordering kits.

Early build jump cylinders with a narrow end (approx. 20mm) that used a straight cheek plate, will use kit Part # 01276.

Later build cylinders that are fitted to joggled cheek plates may be fitted with either the intermediate or current seal kits.

The current production seal kit was introduced during the 1999 production year.

Seal Kit Early Production (Narrow End 20mm)				
Item #	Qty	Part #	Description	Width
All	1	01276	SEAL KIT JUMP CYLINDER EARLY	
1	1	01175	SEAL WIPER	6.4mm
2	1	06050	PISTON SEAL c/w BACKING RING	9.5mm
3	2	01173	BEARING RING JUMP CYLINDER	9.5mm

Seal Kit Intermediate Production (Narrow & Wide Ends)				
Item #	Qty	Part #	Description	Width
All	1	05079	SEAL KIT JUMP CYLINDER INTERMEDIATE	
1	1	06052	SEAL WIPER	9.5mm
2	1	06050	PISTON SEAL c/w BACKING RING	9.5mm
3	2	01173	BEARING RING JUMP CYLINDER	9.5mm

Seal Kit Current Production (Wide End Only 41mm) 1999 on				
Item #	Qty	Part #	Description	Width
All	1	05426	SEAL KIT JUMP CYLINDER CURRENT	
1	1	06052	SEAL WIPER	9.5mm
2	1	06050	PISTON SEAL c/w BACKING RING	9.5mm
3	2	06051	BEARING RING JUMP CYLINDER	19mm

8.7 Jump Cyl & Cheek Plate Upgrade Kit



Item #	Qty	Part #	Description
All	1	05407	JUMP CYL & CHEEK PLATE UPGRADE KIT
1	1	01437	CHEEK PLATE LH JOGGLED
2	1	01438	CHEEK PLATE RH JOGGLED
3	1	14051	JUMP CYL PISTON & SEAL KIT ASSY – AL PISTON
4	1	01456	PIN SET JUMP CYL PISTON

Part #05407 Jump Cylinder & Cheek Plate Upgrade Kit has the required parts to upgrade one (1) tine to current specification.

It reuses the existing jump cylinder barrel. Note that Part #14051 Jump Cylinder Piston & Seal Kit Assembly is included in the 05407 Upgrade Kit.

8.8 Jump Cyl Seal Installation Tools

These tools are available for sale to make installing new seals on jump cylinders much quicker and easier.

- Place the cone over the piston, see Picture 1.
- Ensure the piston & cone is lubricated with hyd oil.
- Slide the first seal (black) into the first piston seal recess.
- Remove the cone, fit the spacer and place on the piston, see Picture 2.
- Slide the second seal (blue) into the second piston seal recess.
- Attach the orange seal to the blue seal.
- Remove the cone and spacer and fit the two bearing rings.
- Ensure the seals are fitted as shown Picture 3.



PICTURE 1

PICTURE 2



PICTURE 3



CONE



SPACER

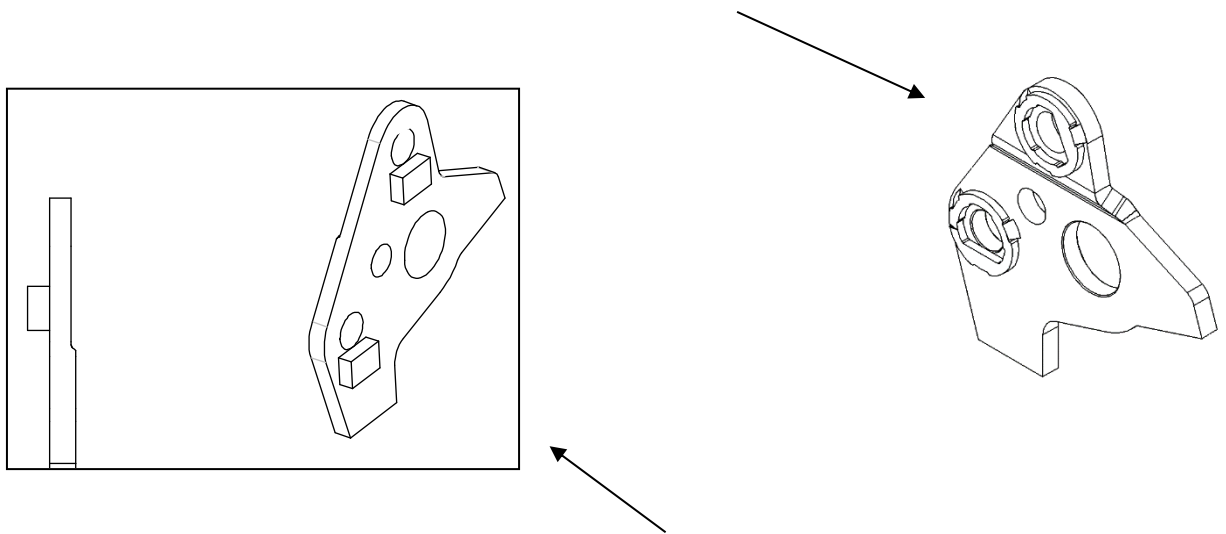
Item #	Qty	Part #	Description
1	1	32334	JUMP CYLINDER SEAL TOOL CONE
2	1	32335	JUMP CYLINDER SEAL TOOL SPACER

9.0 Cheek Plates & Pivot Bushes

9.1 General Information

The Ausplow DBS tine has been fitted with two different cheek plates.

The current production cheek plate is a jogged (offset) item and now has round pin anti rotation washers instead of metal tabs.

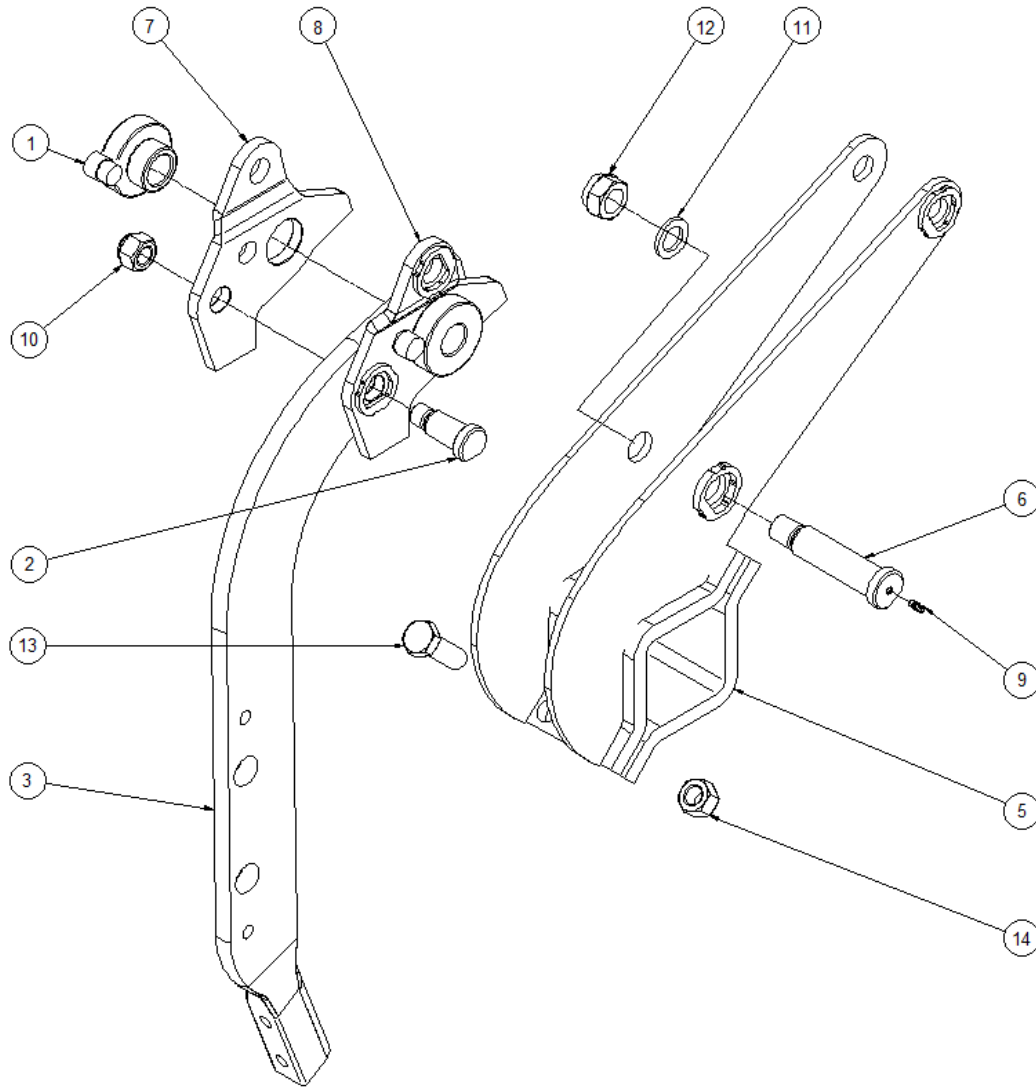


The early production cheek plates were flat in profile. They are not interchangeable.

The early production cheek plates are now obsolete. Tines equipped with the early production cheek plates will need to be upgraded using Part #05407 Jump Cylinder & Cheek Plate Upgrade Kit.

Part #05407 includes all of the parts to upgrade one (1) tine including the jump cylinder piston and seals, see Section 8 for details. The kit is designed to reuse the jump cylinder barrel so as to reduce costs.

9.2 Cheek Plates & Pivot Bushes - Current



Item #	Qty	Part #	Description
1	2	01125	SHANK PIVOT BUSH
2	1	01131	PIN SHANK SUPPORT
3	1	01132	SHANK
5	1	01162	CLAMP PLATE
6	1	01368	PIN SHANK PIVOT
7	1	01437	CHEEK PLATE LH JOGGLED NO TABS
8	1	01438	CHEEK PLATE RH JOGGLED WITH TABS
9	1	09001	GREASE NIPPLE ¼" STRAIGHT
	1	04278	GREASE NIPPLE 6mm STRAIGHT (2024 On)
10	1	09002	NUT M20 Conelock
11	1	09029	WASHER FLAT M24
12	1	09030	NUT M24 Nylock
13	4	09388	BOLT M20 x 60
14	4	09389	Nut M20
SET	1	01282	PIN SET SHANK PIVOT (ITEMS 6, 9, 11 & 12)
SET	1	01283	PIN SET SHANK SUPPORT (ITEMS 2 & 10)

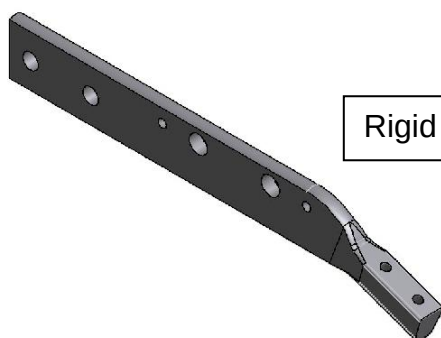
10.0 Shanks

10.1 General Information

The DBS has used three types of shank. The most common is the current shank (Part #01132). There was also a short shank (Part #01120) and a rigid shank (Part #01398) for early machines.



Short Shank Diagonal Measurement - 780mm
Current Shank Diagonal Measurement - 840mm



Rigid Shank Part #01398

11.0 Shank Bushes & Shank Bush Housings

11.1 General Information

The DBS has utilised three different styles of shank bush housings:

Version 1: Press In – (Obsolete)

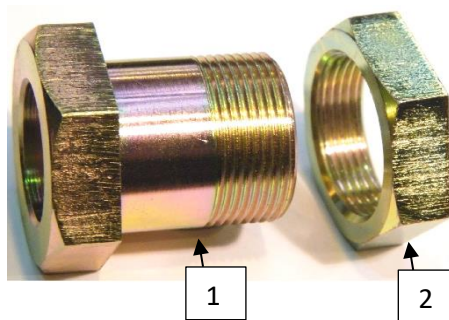
Version 2: Secured with a 'C' spanner nut – (Obsolete)

Version 3: Secured with a hexagonal nut.

Replacement shank bushes are the same for Versions 2 and 3 tines.

11.2 Shank Bush Housing & Bushes

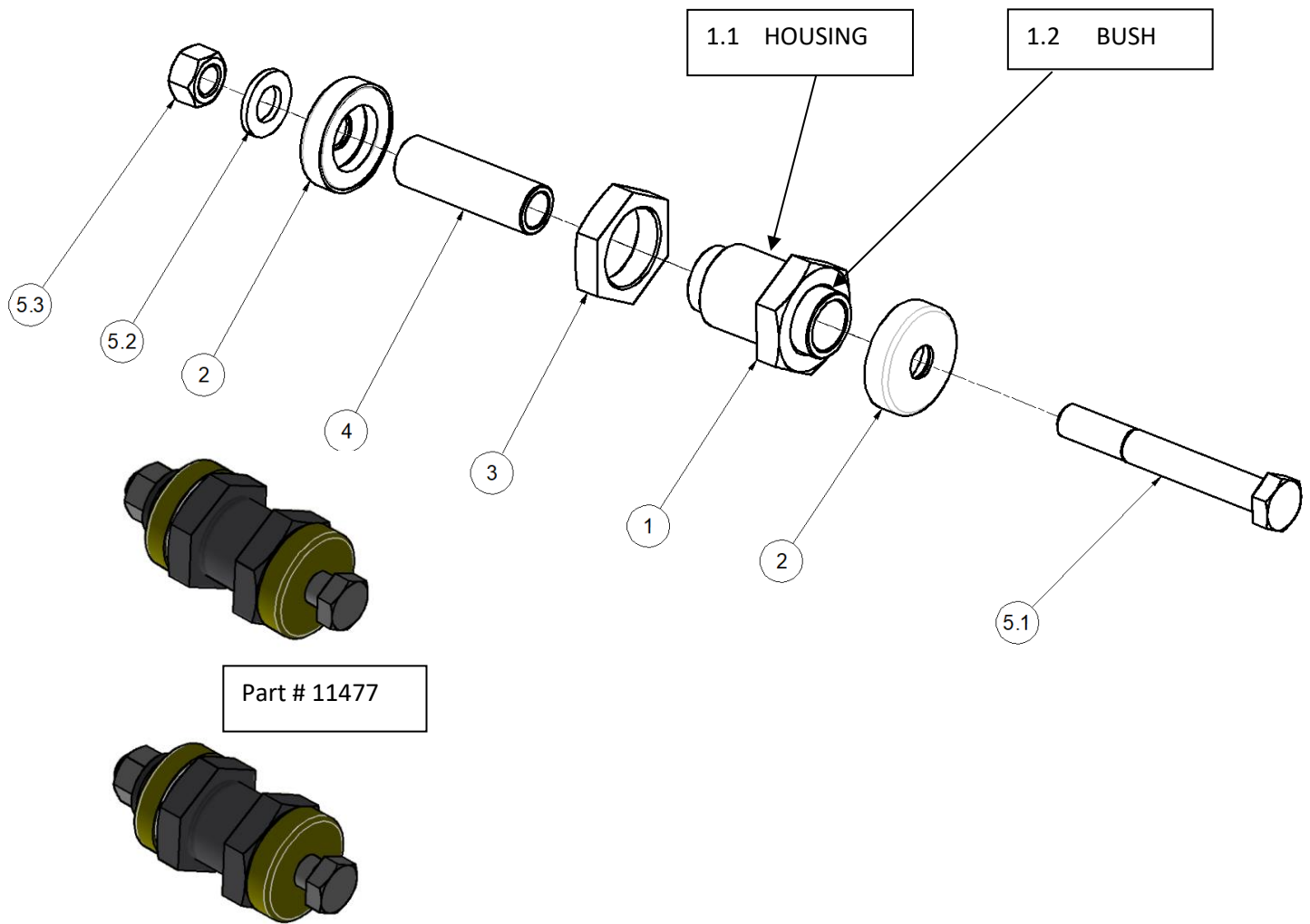
#01457 Shank Bush Housing & Nut Set - **without Bushes**



Item #	Qty	Part #	Description
All	1	01457	Shank Bush Housing & Nut Set (without Bushes)
1	1	01463	Shank Bush Housing
2	1	01464	Nut - Shank Bush Housing



#11490 Shank Bush Housing - **with Bushes**



Item #	Qty	Part #	Description
SET OF 2	1	11477	SEEDING UNIT TO SHANK PIVOT KIT
1	2	11490	SHANK BUSH HOUSING AND BUSHES
1.1	2	01463	HOUSING SHANK BUSH
1.2	4	01133	BUSH SINTERED NICKEL
2	4	01150	SEAL CAP ASSEMBLY
3	2	01464	NUT SHANK BUSH HOUSING
4	2	01130	BUSH SINTERED NICKEL
5	2	01230	BOLT SET M12 x 90mm ZP
5.1	2	01138	BOLT M12 x 90mm WITH THREAD LOCK
5.2	2	09031	WASHER M12 HARDENED
5.3	2	09009	NUT M12 Conelock

12.0 Fertiliser Tubes & Fixings

12.1 General Information

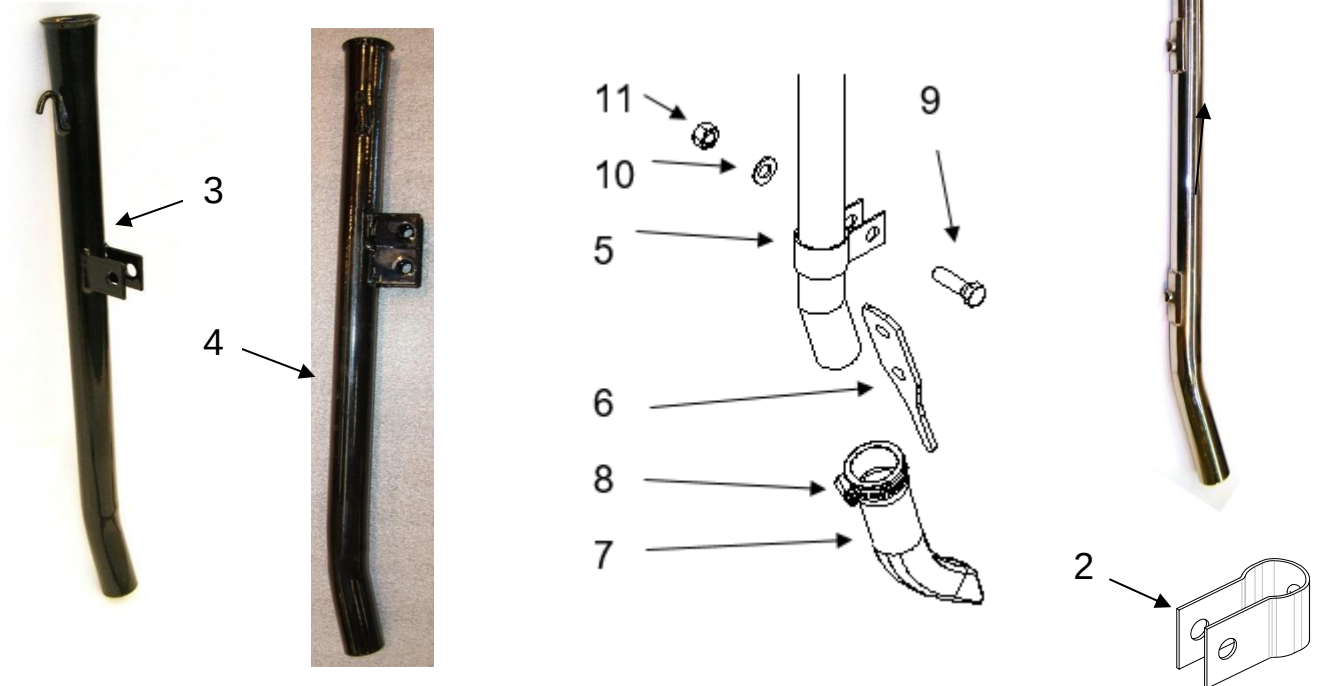
The DBS has utilised a number of different fertiliser tube configurations. Early Version 3 tines had the clip welded to the fertiliser tube. This has been replaced by separate components.

V3 and V4 tine assemblies use the stainless-steel fertiliser tubes which are held onto the shank using Bolt Set #11925.

Machines with Version 2 tine assemblies will require the identification of the shank (short or standard) in order to select the correct fertiliser tube.

V2 tine assemblies with the older type steel fertiliser tubes can be upgraded to the 32mm SS current type using Kit #15832.

12.2 Fertiliser Tubes & Fixings



Item #	Qty	Part #	Description
1	1	11367	FERTILISER TUBE SS SUIT V3 & V4 TINE
2	2	11369	CLAMP FERTILISER TUBE SUIT 11367
3	1	05408	FERTILISER TUBE SUIT ALL V2 STD TINE
4	1	NLA	FERTILISER TUBE SUIT 01120 SHORT SHANK
5	1	05226	CLAMP SUIT V2 & 05857 FERTILISER TUBE
6	1	05227	SUPPORT FINGER SUIT V2 TINE ONLY
7	1	AR	FERTILISER BOOT (See Fertiliser Boot Section)
8	1	AR	CLAMP SUIT FERTILISER BOOT (See Fertiliser Boot Section)
SET	1	01210	BOLT SET (ITEMS 9, 10, & 11) SUIT V2 TINE
9	1	09011	BOLT M12 x 40mm SUIT V2 FERT TUBE CLAMP
10	1	09010	WASHER SPRING M12 SUIT V2 FERT TUBE CLAMP
11	1	09054	NUT M12 SUIT V2 FERT TUBE CLAMP
SET	1	11925	BOLT SET (ITEMS 9, 10, & 11) SUIT V3 & V4 TINE
9	1	09011	BOLT M12 x 40mm SUIT V3 FERT TUBE CLAMP
10	2	09108	WASHER FLAT M12 SS SUIT V3 FERT TUBE CLAMP
11	1	09009	NUT M12 Conelock SUIT V3 FERT TUBE CLAMP
NS	1	18083	LOCTITE 243

ALL nuts must be secured with Loctite 243.

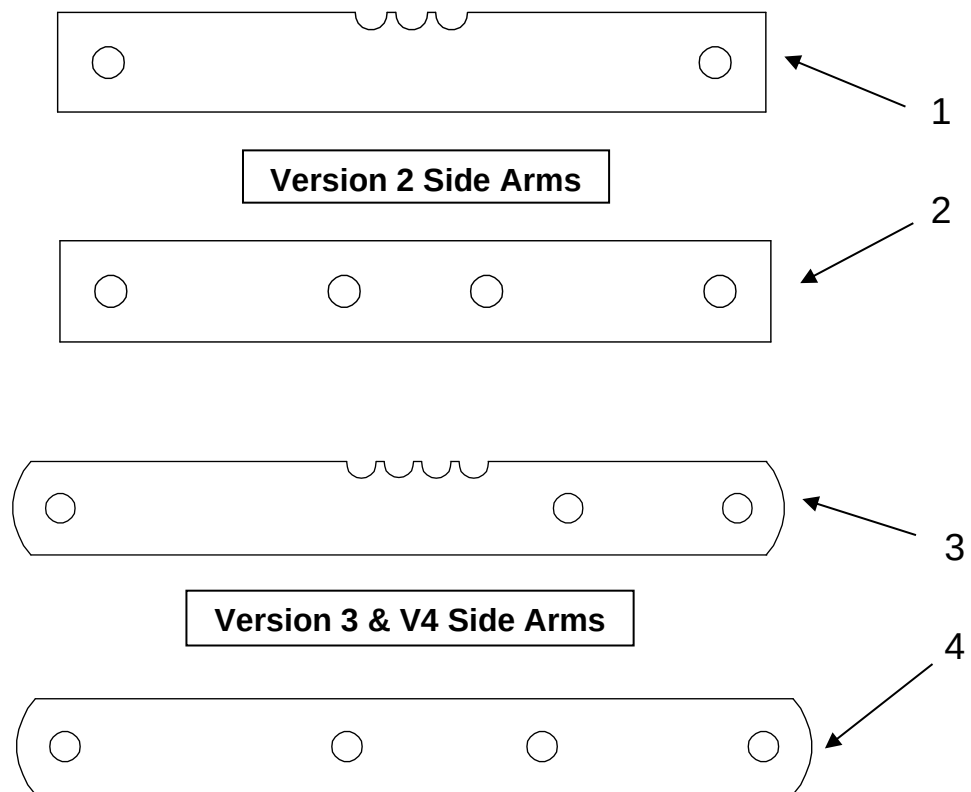
Machines equipped with Version 1 style tines can use either Part # 05408 or Part # 05857 fertiliser tubes depending on the length of the shank.

13.0 Side Arms, Springs, Pins & Stoppers

13.1 General Information

Version 1 tine side arms are now obsolete. Version 2 tine side arms have a nominal overall length of 280mm. Version 3 tine side arms have a nominal overall length of 330mm.

13.2 Side Arms Seeding Units



Item #	Qty	Part #	Description
1	2	01182	SIDE ARM UPPER 280mm OAL 3 NOTCH
2	2	01183	SIDE ARM LOWER 280mm OAL 3 NOTCH
3	2	08925	SIDE ARM UPPER 330mm OAL 4 NOTCH
4	2	08926	SIDE ARM LOWER 330mm OAL 4 NOTCH
NS	NLA	NLA	SIDE ARM LOWER V1 TINE WITH SHOULDER BUSH
NS	NLA	NLA	SIDE ARM UPPER V1 TINE WITH SHOULDER BUSH

13.3 Pins, Springs, Stoppers, & Spacers



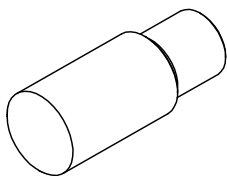
1.
01217



2.
08141



3.
01495



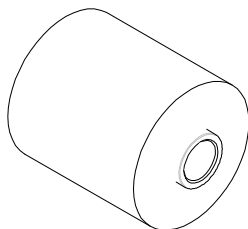
4.



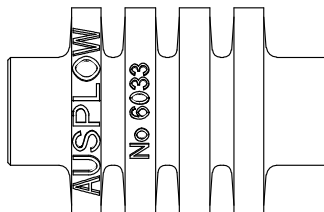
5.
01389



6.
01421



7.



8.



9.

12788

Item #	Qty	Part #	Description
1	1	01217	SPRING HOLDER UPPER
2	1	08141	RETAINING SPRING
3	1	01495	SPACER BUSH V3 & V4 TINE
4	ORB 01495	06539	SPACER BUSH V2 TINE
5	1	01389	SPRING TENSION (optional)
6	1	01421	SPRING TENSION STD (HD) – (all new bars)
7	ORB 12788	05730	STOPPER V2 TINE
8	ORB 12788	06033	STOPPER V3 TINE
9	1	12788	STOPPER DBS BUSHED & RIBBED V2, V3, V4

14.0 Ribs & Seed Tubes

14.1 Rib & Seed Tube for V4 Tine Assembly



RIB V4 TINE - #27222

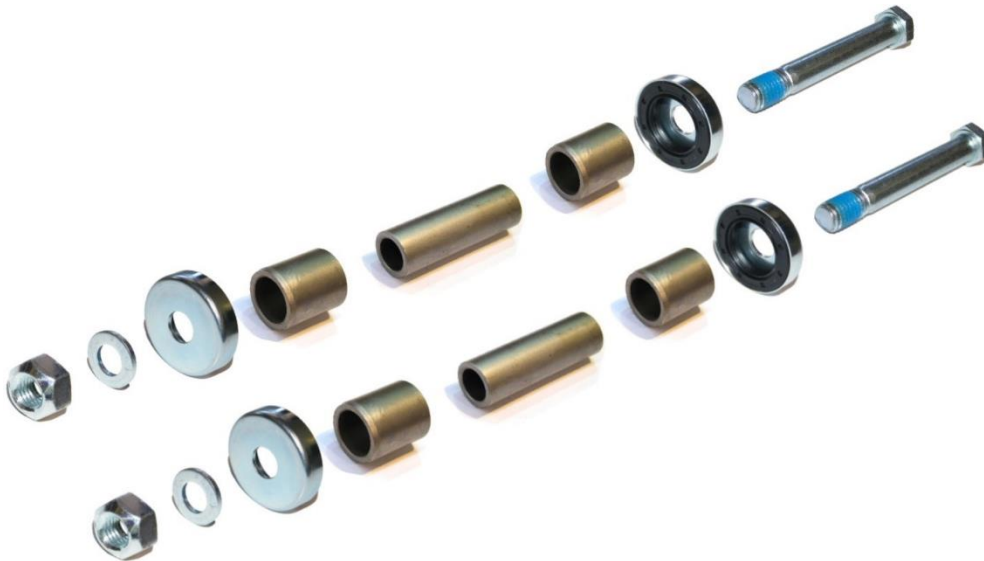
(Contains 4 x # 01133 Bush)
Bushes fitted with chamfered side
facing each other
Extra PW bolt hole from mid 2022



**THIRD LINE SEED TUBE
#33482 SS**



**SEED TUBE - #11351
32mm OD SS**



SEEDING UNIT RIB PIVOT KIT BOLT SET, SEALS AND BUSHES - #11940 (Sold as a pair)
Only 2 x #09031 M12 Flat Washers are now used in these kits (was 4)

14.2 Rib & Seed Tube for V3 Tine Assembly



SEED TUBE 32mm OD SS - #11351

RIB WELDMENT WITH BUSHES - #11926
(Contains 4 x # 01133 Bush)



SEED TUBE 32mm SS KIT - #11886

14.3 Rib & Seed Tube for V2 Tine Assembly

SEED TUBE ASSEMBLY WITH BUSHES - #01493
(Contains 4 x # 01133 Bush)



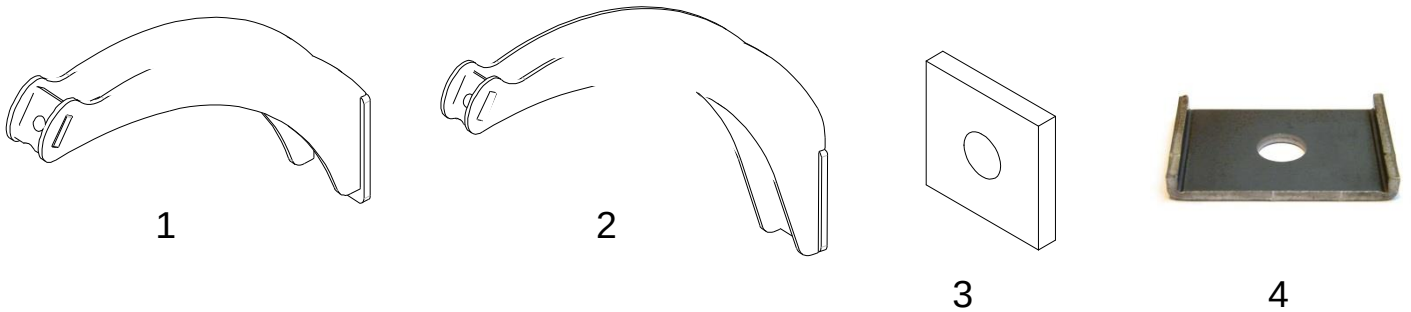
15.0 Scraper Arms

15.1 Scraper Arms



Item #	Qty	Part #	Description
<u>V4 TINE SCRAPER ARM</u>			
1	1	27491	SCRAPER ARM KIT V4 TINE (Arm 33477 & Mount Block 33475)
1A	1	33477	SCRAPER ARM NEW TYPE
NS	2	09738	CUP HEAD SQUARE NECK BOLT M12 x 45mm Gal
NS	2	09031	WASHER FLAT M12
NS	2	09740	NUT M12 Nylock Gal
<u>V3 TINE SCRAPER ARM</u>			
2	1	11365	SCRAPER ARM STD PRESS WHEEL V3 TINE
3	1	11453	SCRAPER ARM "V" MUD WHEEL OPTION V3 TINE
4	1	11428	SPACER SUIT SCRAPER ARM V3 RIB
NS	1	09415	BOLT M12 x 55mm SCRAPER ARM RETAINING
NS	1	09009	NUT M12 Conelock
NS	1	18083	LOCTITE 243
NS	1	12129	SCRAPER BOLT SET M10 x 25mm (2007 ON)

15.2 Rear Mount Scraper Arms to suit V2 Tine



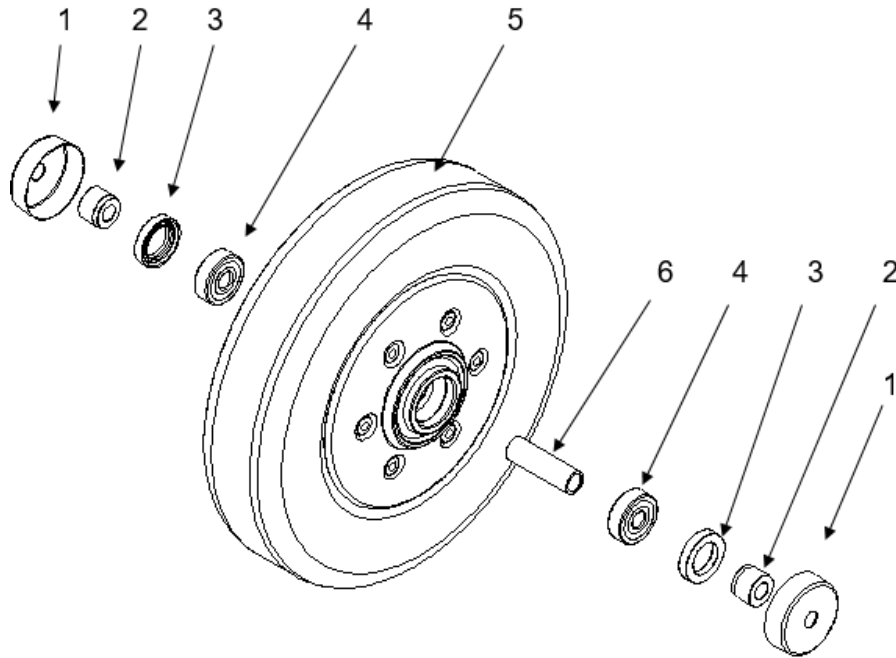
Item #	Qty	Part #	Description
1	1	11165	SCRAPER ARM REAR MOUNT SUIT V2 TINE
2	1	11166	SCRAPER ARM REAR MOUNT SUIT V2 TINE WITH "V" MUD WHEEL
3	1	08873	SCRAPER ARM SLIDE PLATE
4	1	01371	SCRAPER SLIDE BRACKET
NS	1	01191	BOLT SET ½" UNC x 1 ¼" SUIT REAR SCRAPER MOUNT V2 TINE
NS	1	12129	BOLT SET M10 SUIT SCRAPERS 2007 ON & REAR MOUNT UPGRADE
NS	1	18083	LOCTITE 243

When fitting rear mount scraper arms to Version 2 tines it is necessary to fit part #08873 underneath the bolt head within the scraper mount on the rib to reinforce the standard scraper mounting plate.

Once the scraper arm has been bolted into place #08873 must then be welded into position to provide the maximum amount of support possible.

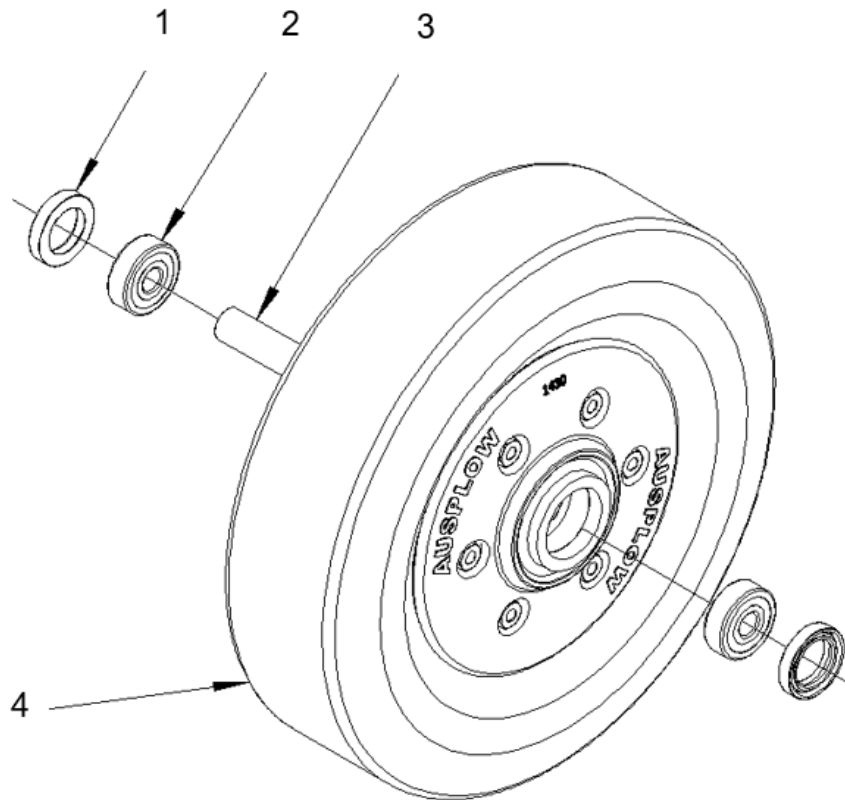
16.0 Press Wheel Assemblies

16.1 Press Wheel Assembly



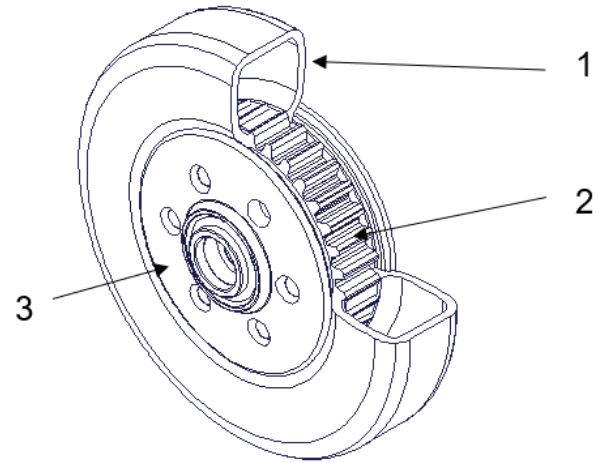
Item #	Qty	Part #	Description
ALL	1	01352	PRESS WHEEL ASSEMBLY – 50mm
		01351	PRESS WHEEL ASSEMBLY – 70mm
		08872	PRESS WHEEL ASSEMBLY – 90mm
		32892	PRESS WHEEL ASSEMBLY – 90mm ROUNDED
		32891	PRESS WHEEL ASSEMBLY – 110mm ROUNDED
		28256	PRESS WHEEL ASSEMBLY – 135mm ROUNDED
		11543	PRESS WHEEL ASSEMBLY – “V” 340 x 70mm
		33040	PRESS WHEEL ASSEMBLY – “V Flat” 360 x 141mm
1	2	01462	PRESS WHEEL DUST COVER SS
2	2	01239	SPACER PRESS WHEEL SS
3	2	01134	SEAL 24 x 37 x 7mm
4	2	01241	BEARING PRESS WHEEL
5	1	06247	PRESS WHEEL TYRE & HUB - 50mm
		06010	PRESS WHEEL TYRE & HUB – 70mm
		08886	PRESS WHEEL TYRE & HUB – 90mm
		32461	PRESS WHEEL TYRE & HUB – 90mm ROUNDED
		32890	PRESS WHEEL TYRE & HUB – 110mm ROUNDED
		28255	PRESS WHEEL TYRE & HUB – 135mm ROUNDED
		11061	PRESS WHEEL TYRE & HUB – “V” – 340 x 70mm
		33039	PRESS WHEEL TYRE & HUB – “V Flat” – 360 x 141mm
6	1	01495	SPACER 12 x 17 x 57mm

16.2 Press Wheel Tyre & Hub Assembly c/w Brgs & Seals



Item #	Qty	Part #	Description
ALL	1	06672	PRESS WHEEL ASSY – 50mm c/w brgs & seals
		06673	PRESS WHEEL ASSY – 70mm c/w brgs & seals
		06674	PRESS WHEEL ASSY – 90mm c/w brgs & seals
		06822	PRESS WHEEL ASSY ROUNDED – 90mm c/w brgs & seals
		06823	PRESS WHEEL ASSY ROUNDED – 110mm c/w brgs & seals
		06821	PRESS WHEEL ASSY ROUNDED – 135mm c/w brgs & seals
		06675	PRESS WHEEL ASSY “V” – 340 x 70mm c/w brgs & seals
		06824	PRESS WHEEL ASSY “V Flat” – 360 x 141mm c/w brgs & seals
1	2	01134	SEAL 24 x 37 x 7mm
2	2	01241	BEARING PRESS WHEEL
3	1	01495	SPACER 12 x 17 x 57mm
4	1	06247	PRESS WHEEL TYRE & HUB - 50mm
		06010	PRESS WHEEL TYRE & HUB – 70mm
		08886	PRESS WHEEL TYRE & HUB – 90mm
		32461	PRESS WHEEL TYRE & HUB – 90mm ROUNDED
		32890	PRESS WHEEL TYRE & HUB – 110mm ROUNDED
		28255	PRESS WHEEL TYRE & HUB – 135mm ROUNDED
		11061	PRESS WHEEL TYRE & HUB – “V” – 340 x 70mm
		33039	PRESS WHEEL TYRE & HUB – “V Flat” – 360 x 141mm

16.3 Press Wheel Tyre & Hub



Item #	Qty	Part #	Description
ALL	1	06010	PRESS WHEEL TYRE & HUB – 70mm
1	1	08266	PRESS WHEEL TYRE – 70mm
2	1	06014	PRESS WHEEL TYRE RETAINER
3	1	06013	PRESS WHEEL HUB ASSEMBLY
NS		06247	PRESS WHEEL TYRE & HUB - 50mm
NS		08886	PRESS WHEEL TYRE & HUB – 90mm
NS		32461	PRESS WHEEL TYRE & HUB – 90mm ROUNDED
NS		32890	PRESS WHEEL TYRE & HUB – 110mm ROUNDED
NS		28255	PRESS WHEEL TYRE & HUB – 135mm ROUNDED
NS		11061	PRESS WHEEL TYRE & HUB – “V” – 340 x 70mm
NS		33039	PRESS WHEEL TYRE & HUB – “V Flat” – 360 x 141mm

16.4 Press Wheel Tyres



31813



08266



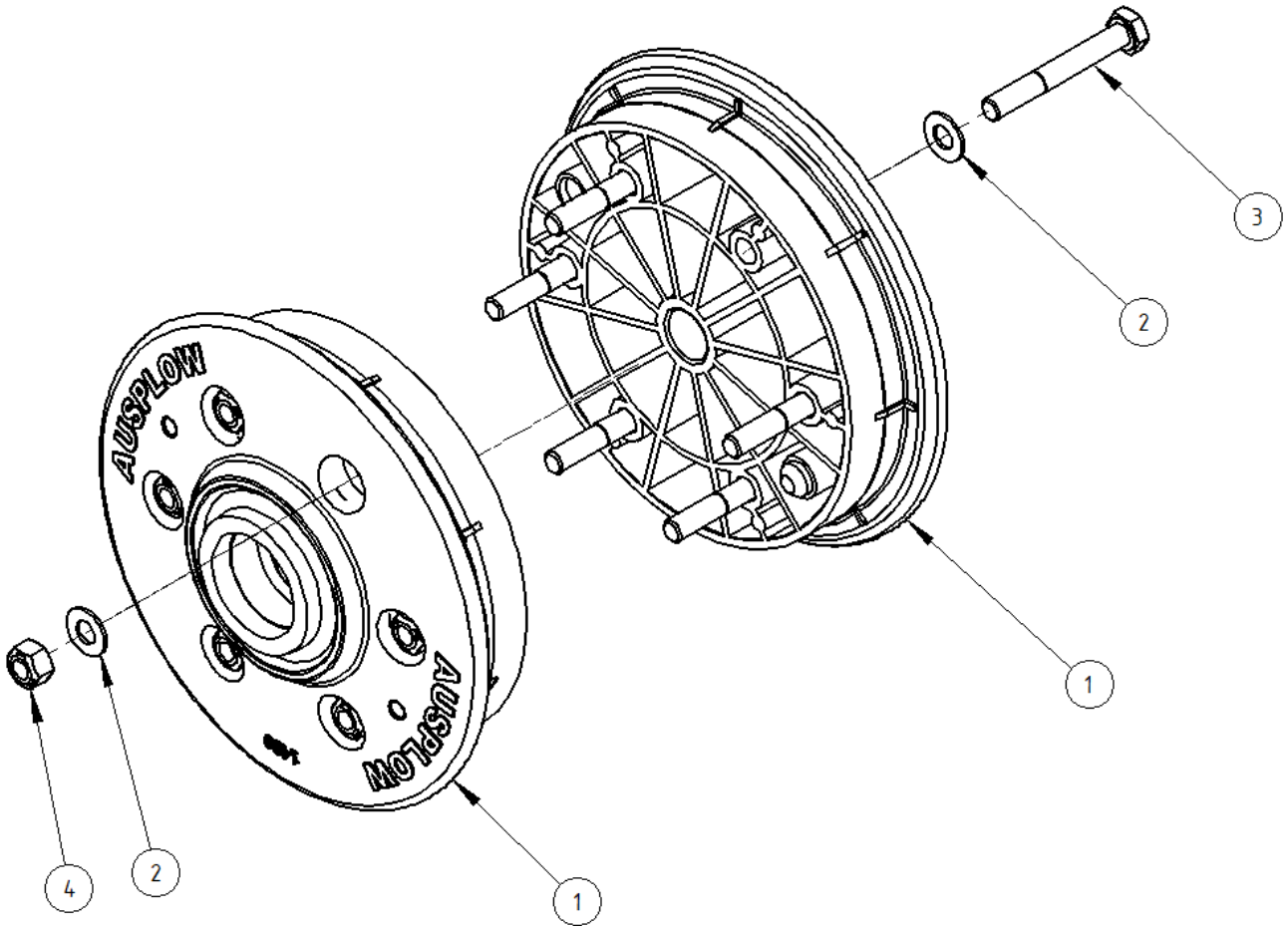
11033



32836

Item #	Part #	Description
NS	01472	PRESS WHEEL TYRE – 300 x 50mm
1	08266	PRESS WHEEL TYRE – 300 x 70mm
NS	08267	PRESS WHEEL TYRE – 300 x 90mm
NS	31813	PRESS WHEEL TYRE – 310 x 90mm ROUNDED
NS	32743	PRESS WHEEL TYRE – 310 x 110mm ROUNDED
NS	27949	PRESS WHEEL TYRE – 310 x 135mm ROUNDED
NS	11033	PRESS WHEEL TYRE – “V” – 340 x 70mm
NS	32836	PRESS WHEEL TYRE – “V Flat” – 360 x 141mm

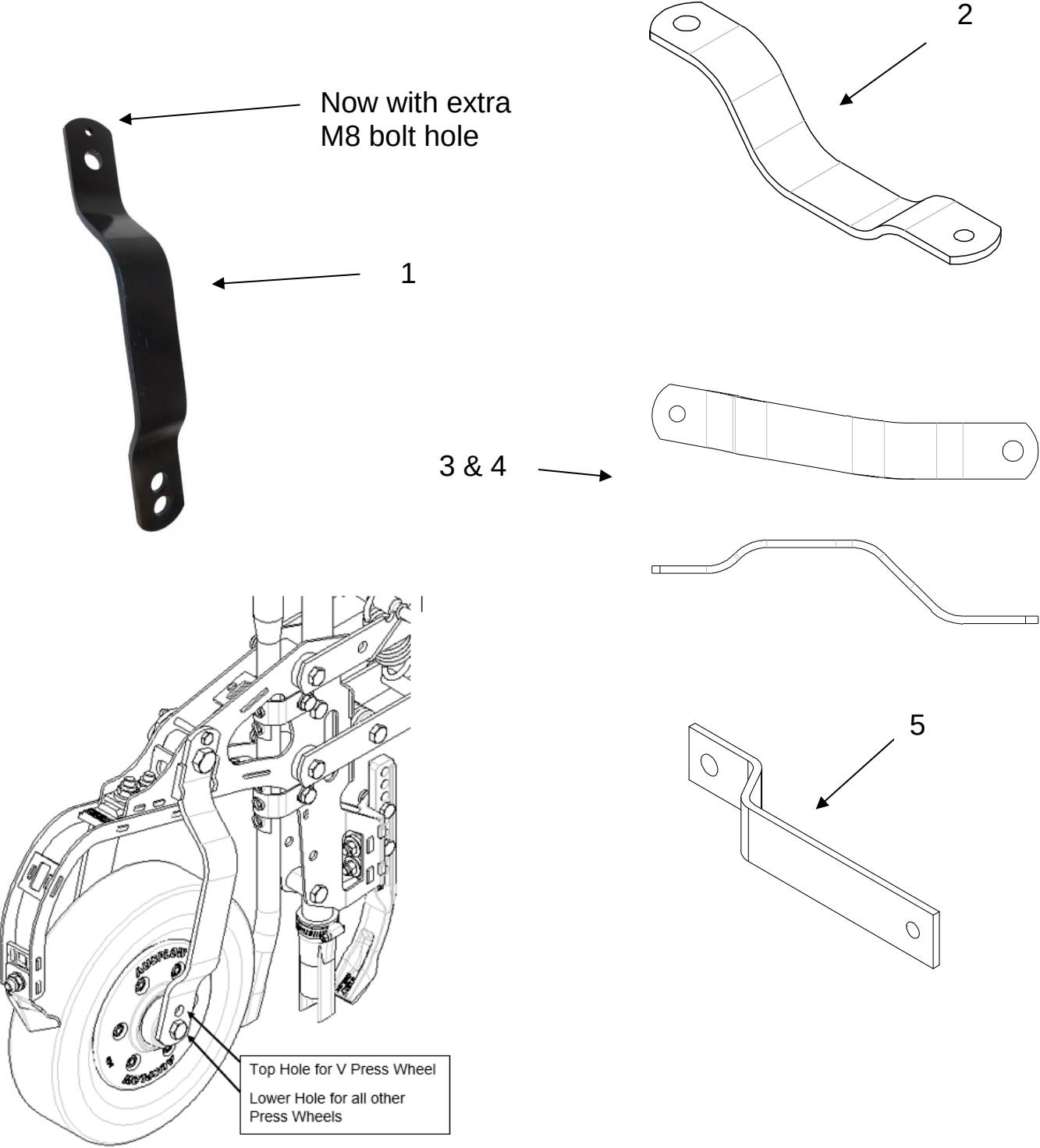
16.5 Press Wheel Hub Assembly



These suit all Ausplow Press Wheels

Item #	Qty	Part #	Description
ALL	1	06013	PRESS WHEEL HUB ASSEMBLY
1	2	01430	PRESS WHEEL RIM HALF
2	12	09017	WASHER FLAT M8
3	6	09018	BOLT M8 x 60mm
4	6	09019	NUT M8 Conelock
3,2,4	1	01458	BOLT SET M8 x 60mm

17.0 Press Wheel Arms



Item #	Qty	Part #	Description
1	1	27203	PRESS WHEEL ARM V4 TINE
2	1	11131	PRESS WHEEL ARM V3 TINE
3	1	11176	PRESS WHEEL ARM V3 TINE CURVE RH (V WHEEL ONLY)
4	1	11177	PRESS WHEEL ARM V3 TINE CURVE LH (V WHEEL ONLY)
5	ORB 11131	01373	PRESS WHEEL ARM V2 TINE

18.0 Ancillary Items

18.1 Calibration Equipment

Part #	Description
04250	SCALES 0-120 KG
09282	BUCKET 25LTR WITH HANDLE

18.2 Hardware & Consumables

Qty	Part #	Description
1	01092	CABLE TIE 550mm x 13mm
1	04316	CABLE TIE 290mm x 4.8mm
1	01011	PAINT 1 LTR TOUCH UP AUSPLOW GREEN
1	18083	LOCTITE 243 THREAD LOCKER
1	18118	LOCTITE 5331 PIPE SEALANT

18.3 Manuals

Qty	Part #	Description
1	00934	MANUAL DBS TINE SPARE PARTS
1	00926	MANUAL SPARE PARTS DBS AUSEEDER
1	00923	MANUAL OPERATORS AUSEEDER D SERIES
1	00898	MANUAL SPARE PARTS MULTISTREAM Series II
1	00919	MANUAL SPARE PARTS MULTISTREAM Series I
1	00952	MANUAL OPERATORS MULTISTREAM Series II
1	00929	MANUAL OPERATORS MULTISTREAM Series I
1	00942	MANUAL SPARE PARTS EASITILL/ DT
1	00931	MANUAL OPERATORS EASITILL SERIES