

Tractor & Machinery Association
of Australia



2140

Toolbar Mounted Presswheel

INSTALLATION, OPERATING & PARTS MANUAL

GPN 217656

REVISION H

7/16

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**OPERATOR SECTION:
INTRODUCTION:**

The Gason toolbar mounted presswheels are a tillage implement attachment that offers in frame mounting of presswheels to individual tines for optimum seed to soil contact.

Some features of the Gason toolbar presswheel include:

- Mounts direct to 100 x 100mm frame left or right of tine
- Height setting variable for large range of under frame clearances
- All pivot points use greaseable hardened bushes.
- Aluminum split rim that allows fitment of different tyres, varying in tyre width, profile and construction.
- Adjustable tyre force.
- Optional adjustable mud scraper.
- Optional Sowing Boot.

- Available in **Standard** or **Offset** Configuration (Offset is an extra 75mm Tine Offset for tight in frame mount position).

Field experience has shown that a good understanding of the implement and its attachments greatly reduces problems in the field, when operated correctly.

Upon initial installation, please ensure the following procedures are followed and your implement manual has been read:

This presswheel may not be suitable for all soil conditions throughout Australia. When purchasing these attachments please conduct sufficient research to ensure correct operation in your local conditions. Presswheels of any description will have an adverse effect on trash flow. Stubble management at harvest is important for successful operation of presswheels at seeding. Optional presswheel sowing boot plant depth will be dependent on type of ground tool chosen.



Caution: The presswheel sowing boot has been designed to be a secondary seeding device. It should not be worked in rocky ground or used for primary seeding (engaging unworked ground). However, the press wheel does have limited ability to negotiate occasional objects.

Important: Warranty will be void if working in rocky ground.

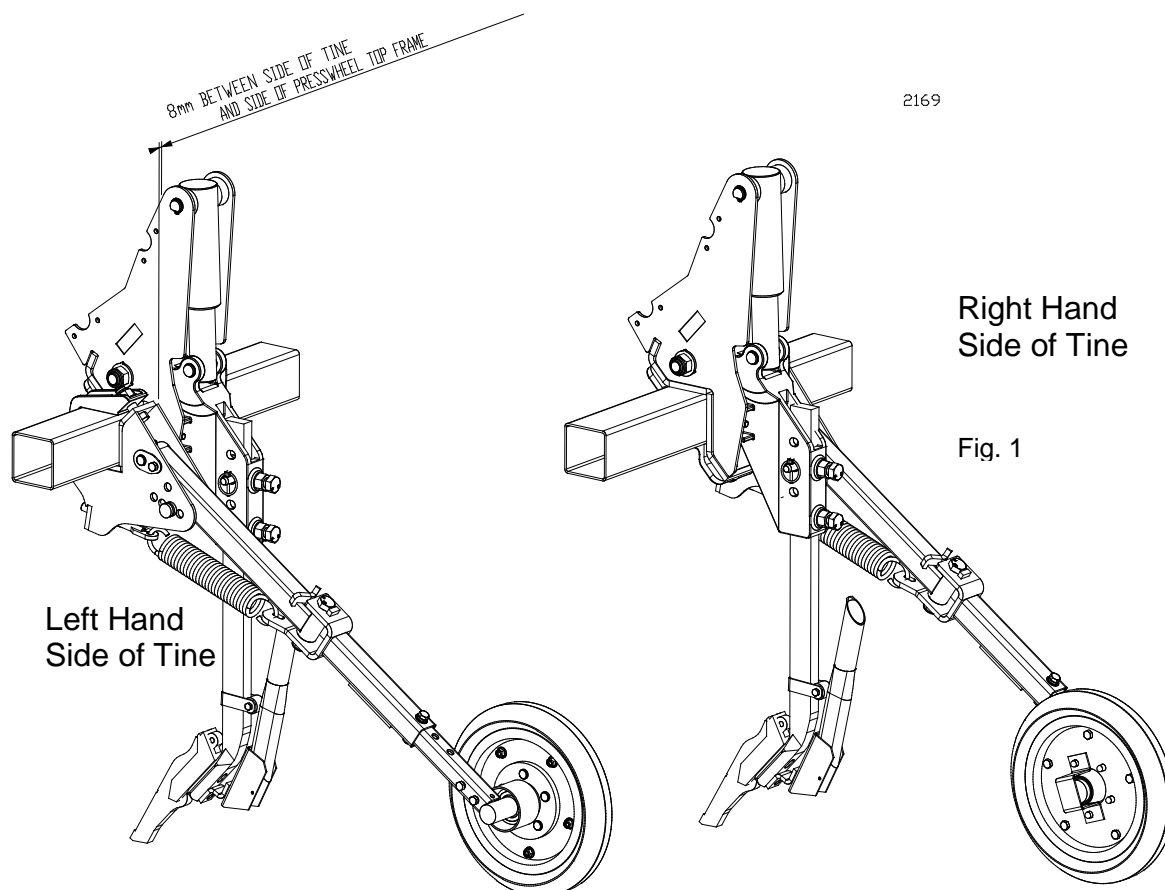
TOOLBAR PRESSWHEEL INSTALLATION:

The toolbar presswheel has been designed to fit left or right of the tine. To change the hand simply turn the lower wheel assy over by 180°. When changing hand it is also desirable to change the inserting side of the top pins allowing the pins to be removed when mounted next to a tine. Presswheels will be delivered with ½ assembled L/H and ½ assembled R/H.

When mounting, ensure top frame is clamped square to RHS and bolts are clamped evenly tight. It may be necessary to reverse the tine's primary pivot bolt to obtain easy access to tighten top bracket nuts. For hydraulic tines, release the tine circuit pressure prior to removing the primary pivot bolt. For spring tines, fit the dismantling hardware. **Note that extreme care must be taken for this next procedure.** Refer "Dismantling Tine Assembly" under General Maintenance of your Scaritill manual.

When clamped next to tine, there should be a 8mm offset between side of tine (scaritill) and side of presswheel top frame (see Fig. 1). At this position the presswheel should be inline with the tine in the direction of travel. Ensure presswheels mounted in frame can achieve maximum jump. There should be no obstructions under toolbar height limiting the vertical travel. For tight situations an offset presswheel maybe required.

Initially set the toolbar presswheels near to the depth of the implement's point. Set initial position in lower telescoping RHS to central hole.

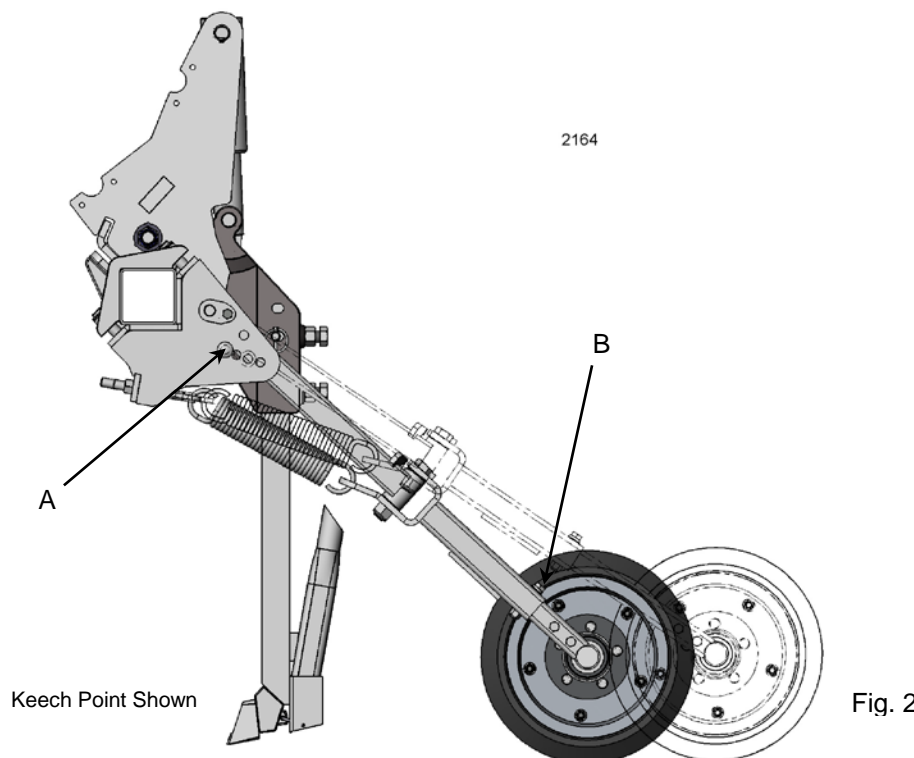


MOUNTING DIMENSIONS

Standard press wheel is 110mm centre of tine to centre of top bracket
 Offset press wheel is 185mm centre of tine to centre of top bracket
 Top bracket 73mm wide, tine (Scaritill) 132mm wide

TOOLBAR PRESSWHEEL SET-UP:

1. Before making any adjustments to the toolbar presswheels read and understand the operating instructions for your implement.
2. After making the necessary implement and tine adjustments, setup the implement to the desired depth for seed and fertilizer placement.
3. Check that there is no interference with the toolbar presswheels from the implement and/or seeder, if fitted, under all conditions.
4. Initially, the toolbar presswheels should be set near to the implement's point. The toolbar presswheel will lift as it comes into contact with the ground and follow the slot left by the sowing point.
5. Changing the position of the top pin (item A, Fig. 2) will change the height of the press wheel by 50mm, for finer adjustment of 25mm use the lower telescoping tube holes (item B, Fig. 2). Use a combination of these adjustments for optimum positioning.
6. The telescoping holes can also be used to move the presswheel rearward in situations where more time is needed for slot to back-fill see fig. 2. As the presswheel is moved back spring pressure will increase and may need re-adjustment.

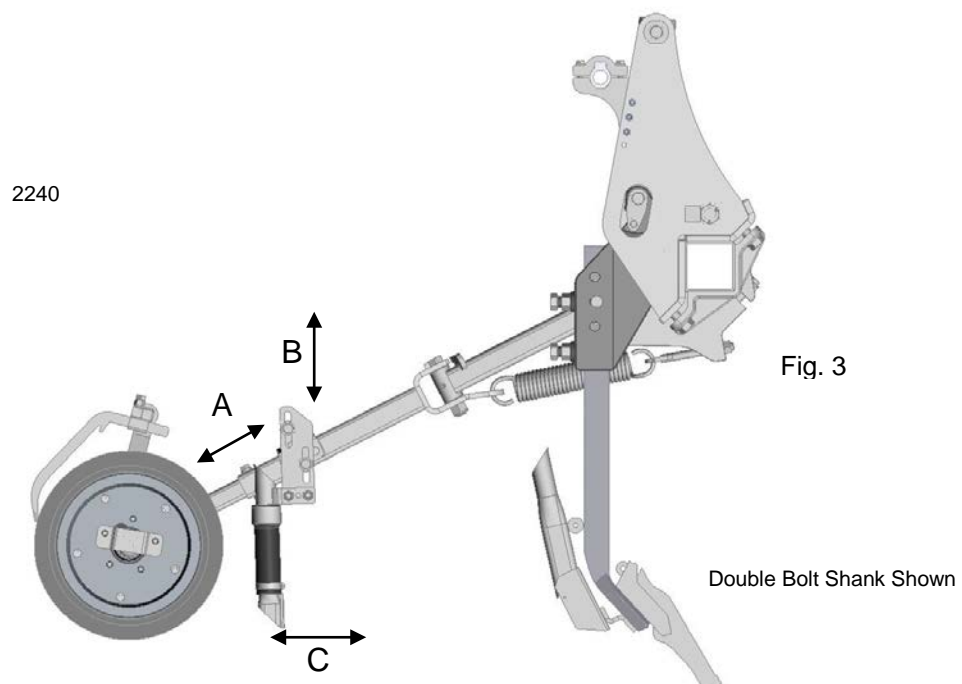


7. Set the desired force on the presswheel tyre by changing the positions of the extension springs. Tightening the eyebolt increases the downforce on the tyre.
8. Check again that the implement is working at a consistent depth.
9. Be aware of the position range of implement frame, tines and seeder throughout undulating working conditions and in transport mode.

OPTIONAL SOWING BOOT SET-UP:

1. Initially follow the toolbar presswheel setup instructions previous page. Additional setup will be required for sowing boot position and depth, setting A & B (refer Fig 3). During initial setup, position boot taking into account possible settings and allowing for these. Note: boot mounting bracket can be rotated for deeper digging depth (Item 3, page 16).
2. For best results the sowing boot needs to be adjusted on commencement of each job when the machine is at working depth in the soil and positioning setting B to obtain optimum seed placement. Check and re-check during operation (refer Fig 3).

Caution, there is a limitation to maximum depth obtained with the sowing boot. Depth will vary with soil type, moisture content of soil, speed of travel and type of digging point. Never adjust sowing boot depth below the primary digging tool!



OPERATING:

When working with your toolbar presswheels, follow all operating guidelines in the Implement Manual and regularly check for:

- Blockages due to mud, stubble, etc.
- Wheels can freely rotate.
- Even tyre wear and/or damage.
- All hardware in place and tight.
- Kinks in sowing tubes
- Point, boot & mud scraper wear

Be safety conscious during every operation with your machine. Ensure bystanders are not too close or riding on the implement when working, raising or lowering machine.

MAINTENANCE:

(a). Check all pins for wear and replace as required.

(b). Greasing Hardened Bushes:

Grease weekly or more often in dusty and/or higher usage situations, using any No.2 consistency lithium based, extreme pressure general purpose grease containing 10% weight of molybdenum disulphide, e.g. MOLYBOND TPG Grease.

(c). Wheel Bearing Maintenance

Wheel bearings should be checked at least, at the end of each working season and adjustments made when necessary. To preserve seal & bearing life, any appreciable degree of side play in the wheel requires **immediate remedial action** by increasing the bearing preload.

To check and adjust wheel bearings: -

1. Raise wheels off the ground to facilitate rotation.
2. Check for endplay by pulling back and forth on wheel.
3. If bearing endplay is present, remove hubcap and cotter pin.
4. Tighten slotted nut whilst rotating wheel until resistance locks hub.
5. Back off the slotted nut one full turn.
6. Retighten until nut locks up and back off to nearest slot in nut, but no more than 30°.

Note: Ensure that the bearing endplay is not apparent. Tapered roller bearings on agricultural tractor and implement wheels are generally set with a free running clearance or end play of somewhere between .03 to .18mm (.001 to .007 inches).

7. Rotate the wheel. There should be only a slight drag. **If the wheel spins easily, there is not enough preload.**

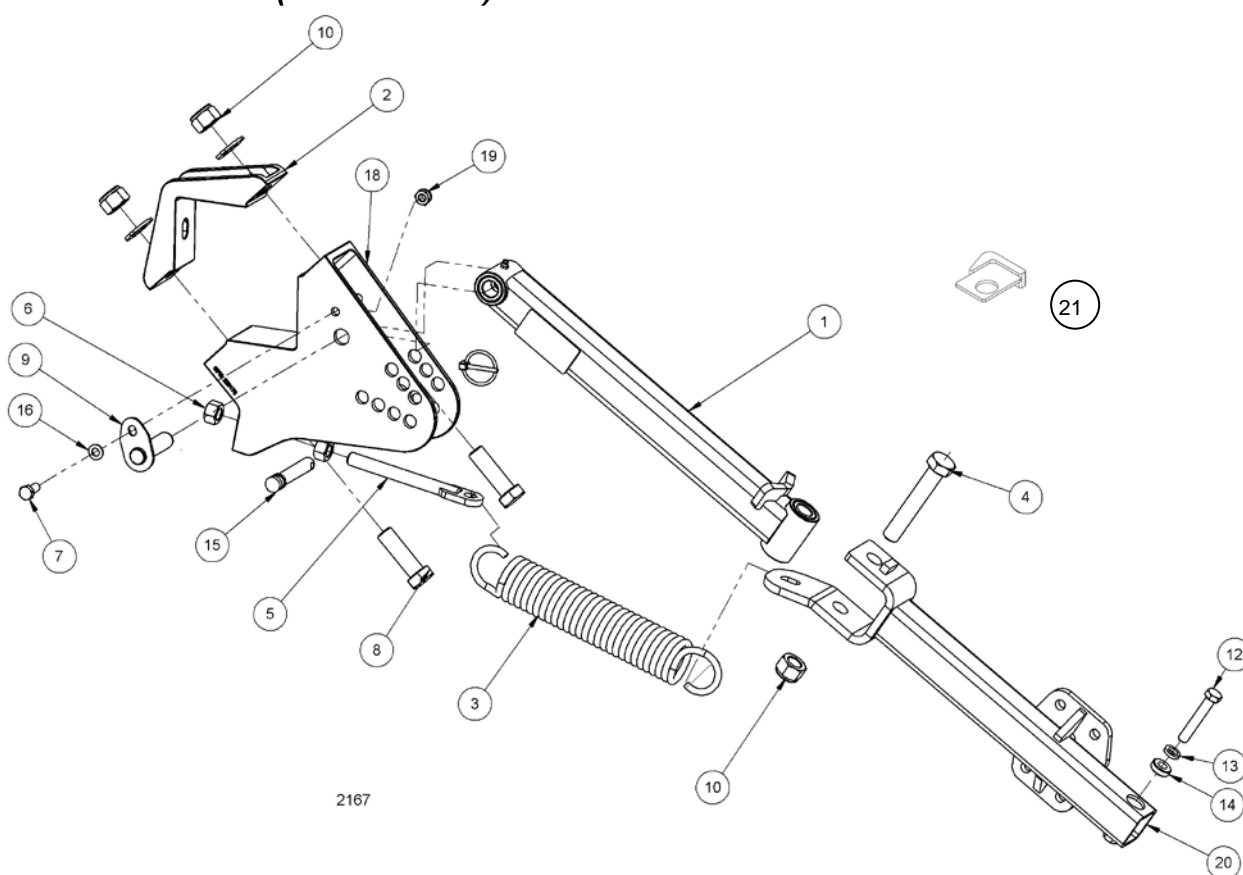
8. Replace the hubcap.

9. Grease hub via grease nipple.

Be careful not to over grease as this may dislodge either the triple-lip seal behind the inner bearing, or the hubcap. Remove purging screw (located 180 degrees around from grease nipple) when greasing. Important: When replacing bearings, care should be taken to ensure that the bearings, tools and work areas are clean. Kerosene is recommended for washing bearings, though it is not necessary to wash new bearings. Before storage or assembly of washed bearings, they must be immersed in a light mineral oil after thoroughly dry from the kerosene. Bearing cups can be pressed or driven into hub. If special drivers are not available, mild steel bars can be used (do not use hardened drifts or brass bars). Care must be taken to ensure that the cup or cone is solidly seated against the shoulders. Before fitting bearings, check condition of triple-lip seal and replace if necessary. Apply a suitable sealant to inner & outer diameters of the seal before fitment. e.g. Loctite Hi-Tack gasket sealant. Ensure bearings are fully greased; i.e. grease must completely penetrate within rollers and cage to inner race. Recommended grease is any high quality lithium based extreme pressure multi-purpose grease, e.g. Mobilgrease XHP 222 or Fuchs Poliplex2.

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SPARE PARTS SECTION:
COMMON PARTS (GPN: 216943)

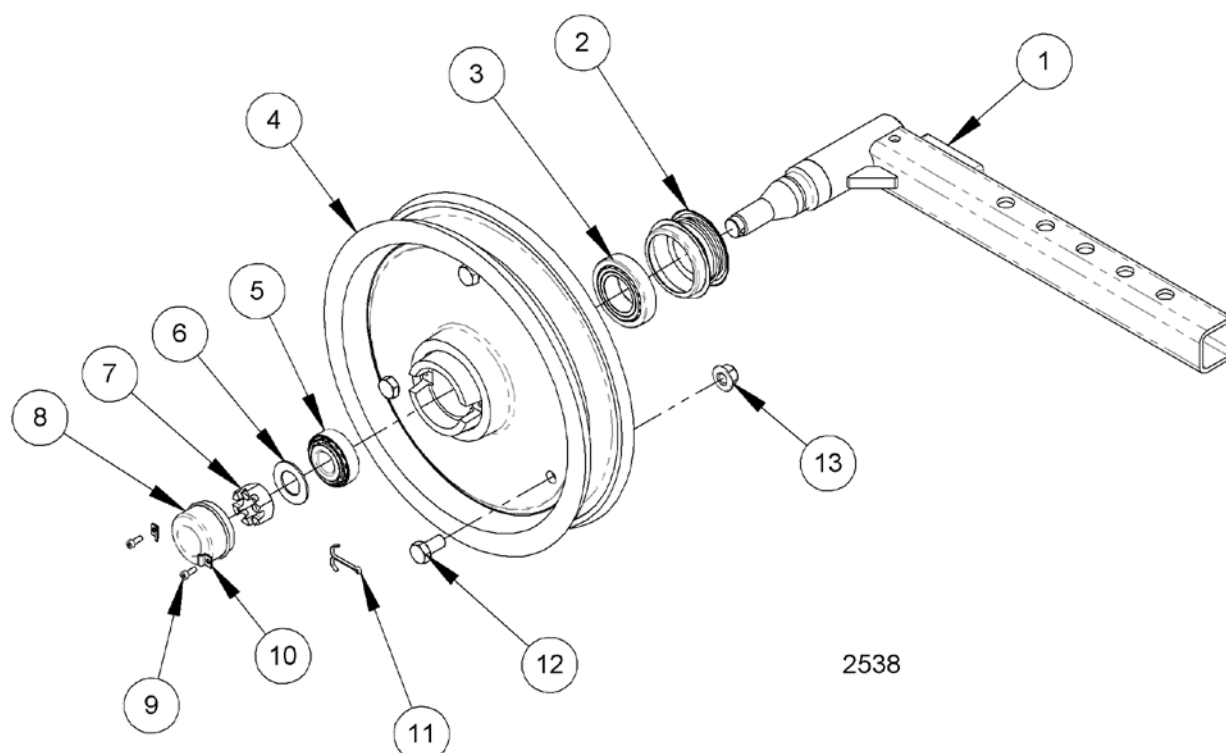


Item	Part No.	Description	Qty
1	216842	Upper Tube Assy	1
2	900438	4100 Clamp	1
3	216837	Extension Spring - P/Wheel	1
4	913735	Bolt M20x115 Gr10.9 Hex ZP	1
5	216786	Eye Bolt	1
6	902701	Nut M16	2
7	917403	Screw Set M10x25 Gr8.8	1
8	913713	Bolt M20x65 Gr8.8 Hex Z/P	2
9	216924	Pin Upper	1
10	903931	Nut Nyloc M20 CL8 AS1285	3
11	207167	Lynch Pin - Ø4.5mm	1
12	913626	Bolt M12x 70x1.75P GR8.8	1
13	908604	Washer Spring 1/2 X 5/32 X 5/32 ZP	1
14	216927	Spacer S/S 25 X 12 X 8	1
15	216925	Pin 16mm	1
16	800894	Washer Flat 10x19x1.5mm ZP	2
17	907416	Washer Flat Structural M20 Gal	2
18	220176	Top Bracket – Press wheel	1
19	903407	Nut Nyloc M10 CL8	1
20	226877	Tube Assy - R/H Plate (Shown) (Post 2011)	1
	226876	Tube Assy - L/H Plate (Not Shown)(post 2011)	Ref.

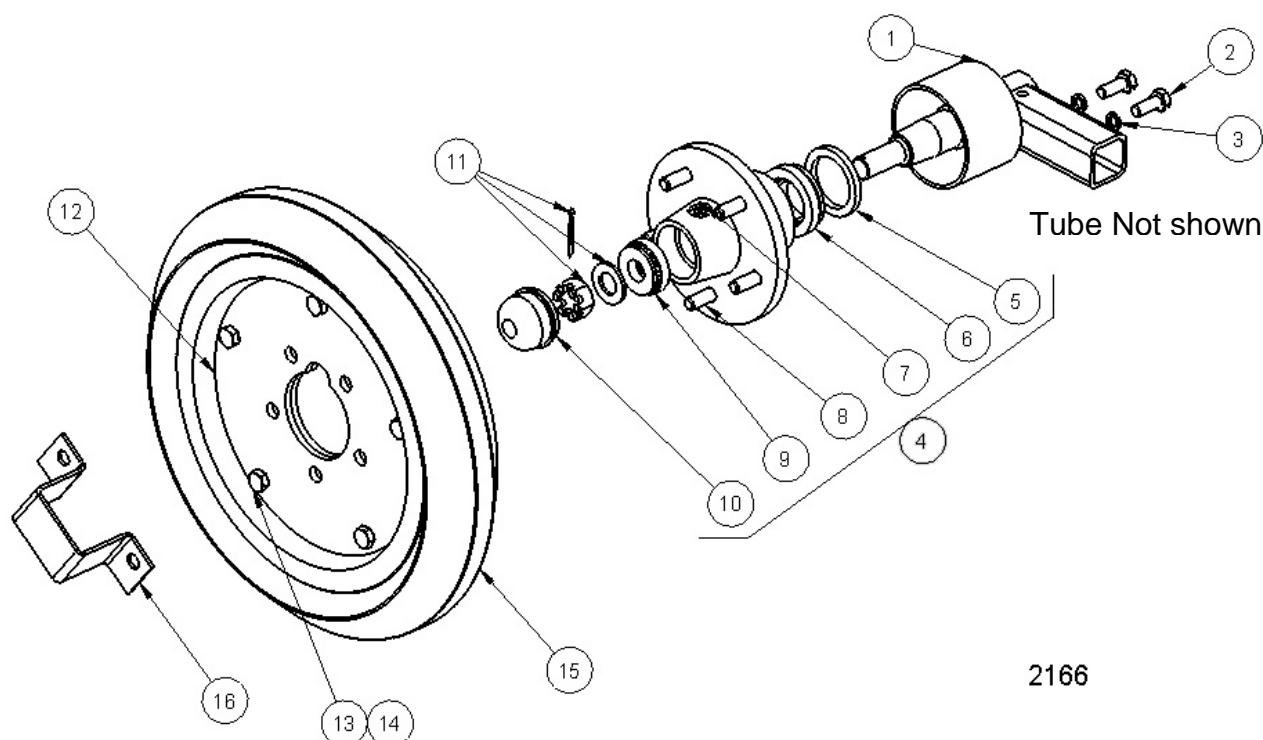
TABLE CONTINUED NEXT PAGE

	216841	Tube Assy - Short (pre 2007)	Ref.
	218076	Tube Assy – Long (post 2007 – pre 2011)	Ref.
21	220180	Stopper - Assy LH - Limit To Less Than 5 Deg	REF.
	220181	Stopper – Assy RH - Limit To Less Than 5 Deg	REF.
	218352	Stopper – Assy LH - Limit To Less Than 12 Deg	REF.
	218353	Stopper - Assy RH - Limit To Less Than 12 Deg	REF.

AXLE ASSY (POST 2011 INTEGRAL HUB)
STANDARD (GPN: 226837)
OFFSET (GPN: 227121)

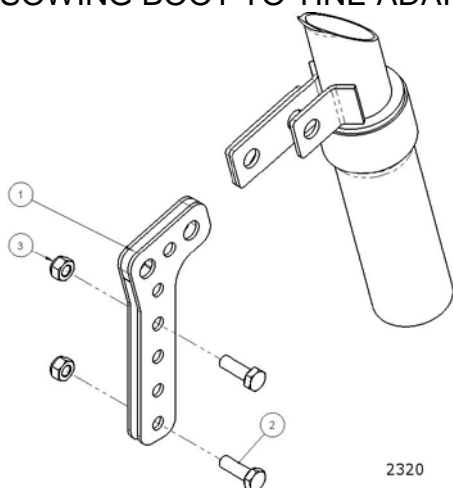


Item	Part No.	Description	Qty
1	226836	Arm Weldment Standard	1
	227122	Arm Weldment 75mm Offset (REF.)	-
2	222508	Seal – Marine type, pre 2014	1
	231381	Seal – Oil type, post 2014 (will fit old design)	1
3	214820	Bearing Cone LM67048 Inner	1
4	223820	Hub Assy 15" INTEGRAL (Ref. 227130)	1
5	214819	Bearing Cone LM11949 Outer	1
6	907408	Washer Flat 21x37x1.6 Z/P	1
7	934801	Nut Slotted ¾" UNF	1
8	214818	Cap Dust A/B Type L	1
9	922328	Screw Cap M4x10	2
10	227133	Retainer - Grease Cap	2
11	930100	Pin Split 5/32x1-1/2" Z/P	1
12	917412	Screw Set M10x20 GR8.8	3
13	902404	Lock Nut - M10	3
-	955001002	Nipple Grease 1/4" 28UNF (Not Shown)	1
-	-----	Tyre Presswheel - Option	A/R

AXLE ASSY(PRE 2011 - HT HUB)

Item	Part No.	Description	Qty
1	216844	Arm Assembly (Includes all part below, less wheel)	1
	216993	Arm Assembly 75mm OFFSET (REF.)	-
2	917403	Screw Set M10x25 Gr8.8	2
3	909005	Washer Spring M10 X 2.35 X 2.40 Z/P	2
4	210300	Hub Assy Holden HT	1
5	214817	Seal	1
6	214820	Bearing Cone LM67048 Inner	1
7	955001002	Nipple Grease 1/4" 28UNF	1
8	211901	Stud Wheel 7/16" UNF	5
9	214819	Bearing Cone LM11949 Outer	1
10	214818	Cap Dust A/B Type L	1
11	-	Stub Axle Hardware	1
12	211782	Wheel Centre Aluminium	1
13	917412	Screw Set M10x20 GR8.8	5
14	-	Lock Nut - M10	5
15	-	Tyre Presswheel - Option	A/R
16	210546	Guard - Hubcap	1

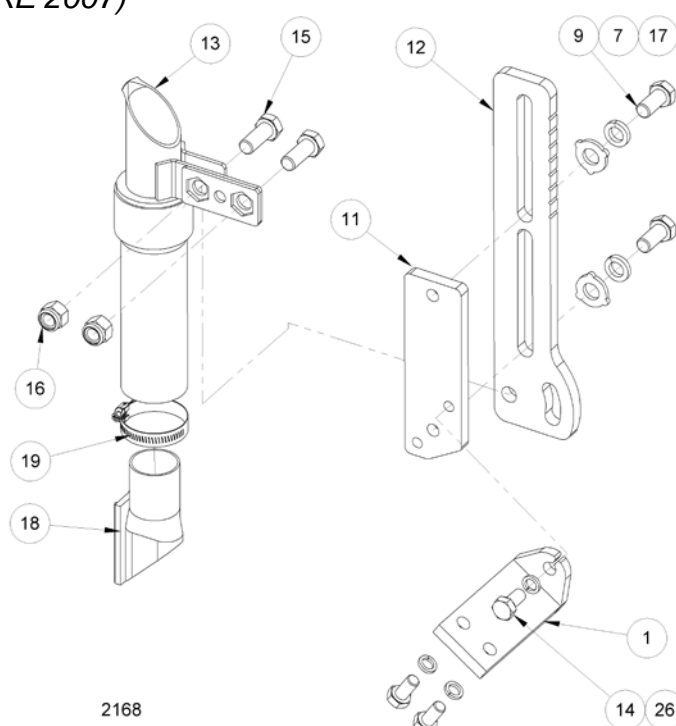
SOWING BOOT TO TINE ADAPTOR KIT (GPN 221691)



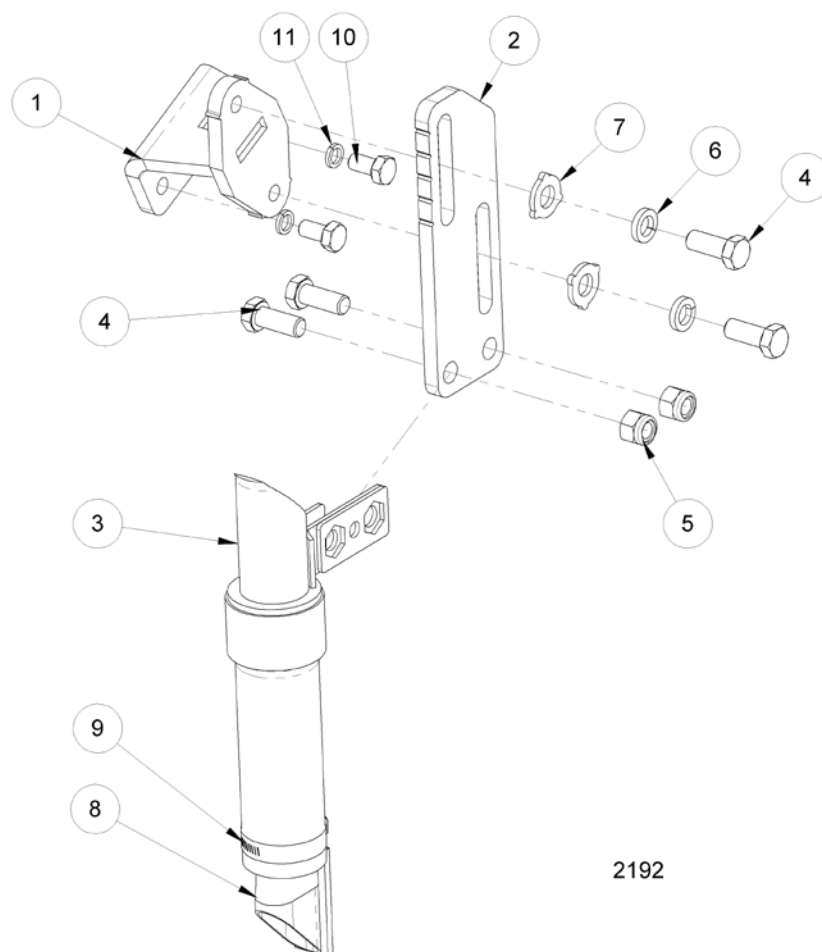
Item	Part No.	Description	Qty
1	218892	Bracket	1
2	917309	Screw Set M8x 25x1.25P	2
3	903302	Nut Nyloc M8	2

Note: To use adaptor the tine sowing boot must have a mount bracket welded on, refer bracket GPN: 214958.

SOWING BOOT (PRE 2007)

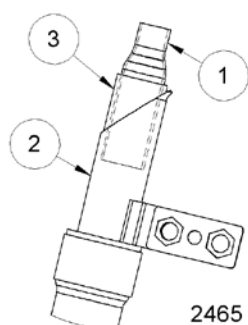


Item	Part No.	Description	Qty
1	216847	Bracket	-
	216995	Bracket Offset (Ref.)	-
7	908604	Washer Spring 1/2 X 5/32 X 5/32 ZP	2
9	917601	Screw Set M12x 25 GR8.8	2
11	216996	Plate	1
12	216923	Plate	1
13	217216	Sowing Boot	1
14	917412	Screw Set M10x20 GR8.8	2
15	917602	Screw Set M12x 30 GR8.8	2
16	903605	Nut Nyloc M12 CL8 AS1285	2
17	906602	Washer Flat Structural 1/2"Gal	2
18	217219	Tail - 25mm Straight	-
	217263	Tail - Curved Sowing Boot (Ref.)	-
19	8001073	Clamp Hose-Worm No.2 Z/P	1
26	909005	Washer Spring M10 X 2.35 X 2.40 Z/P	2

SOWING BOOT (POST 2007 –PRE 2010)

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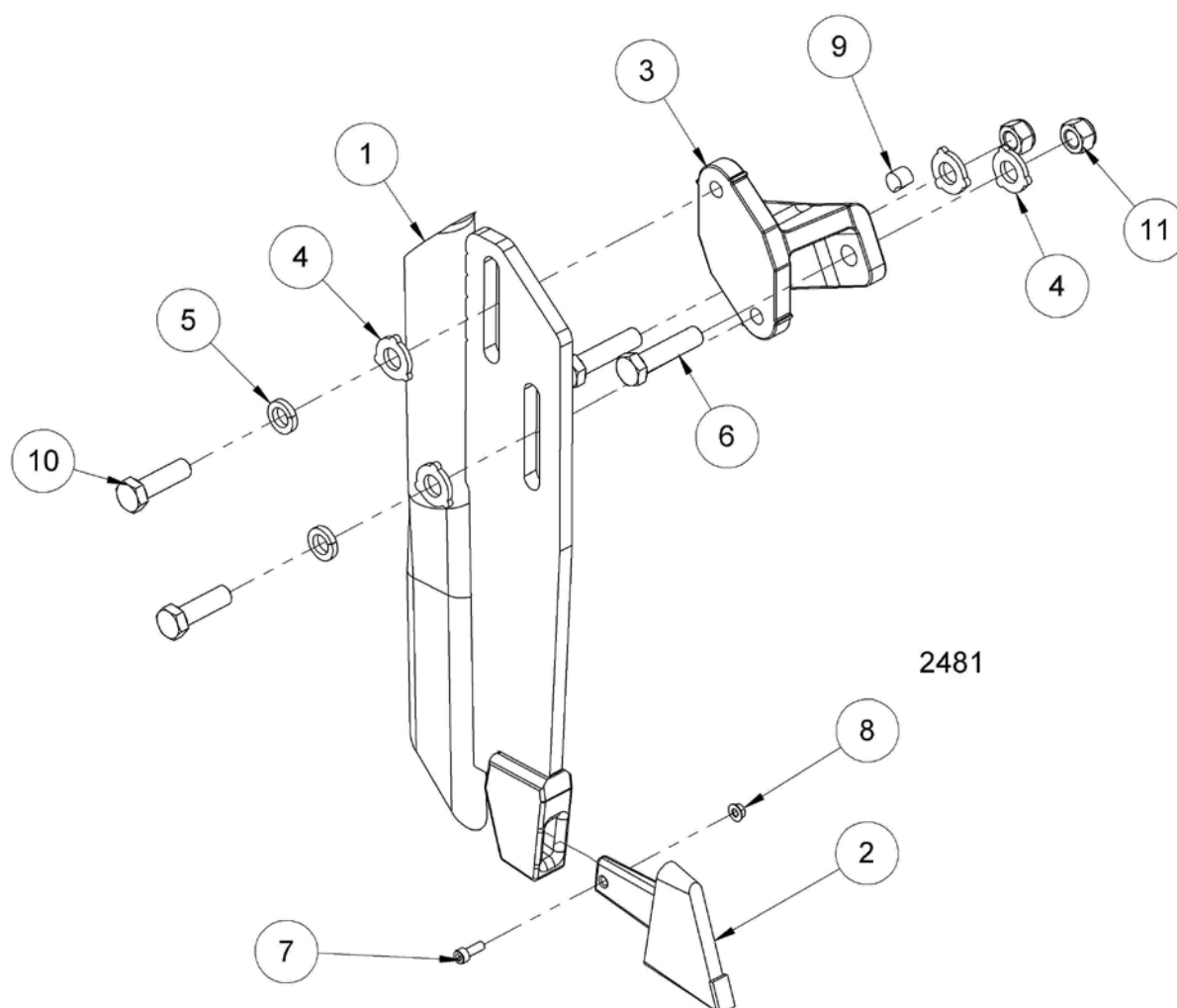
Item	Part No.	Description	Qty
1	218073	Bracket	1
	218078	Bracket Offset (Ref.)	-
2	218074	Plate	1
3	217216	Sowing Boot	1
4	917602	Screw Set M12x 30 GR8.8	4
5	903605	Nut Nyloc M12 CL8 As1285	2
6	908604	Washer Spring 1/2 X 5/32 X 5/32 Z/P	2
7	906602	Washer Flat Structural 1/2" Gal	2
8	217219	TAIL - 25mm Straight	1
	217263	Tail - Curved Sowing Boot (Ref.)	-
9	8001073	Clamp Hose-Worm No.2 Z/P	1
10	917412	Screw Set M10x20 Gr8.8	2
11	909005	Washer Spring M10 X 2.35 X 2.40 Z/P	2

ADAPTOR - PASTURE PLANTER INTO SOWING BOOT

2465

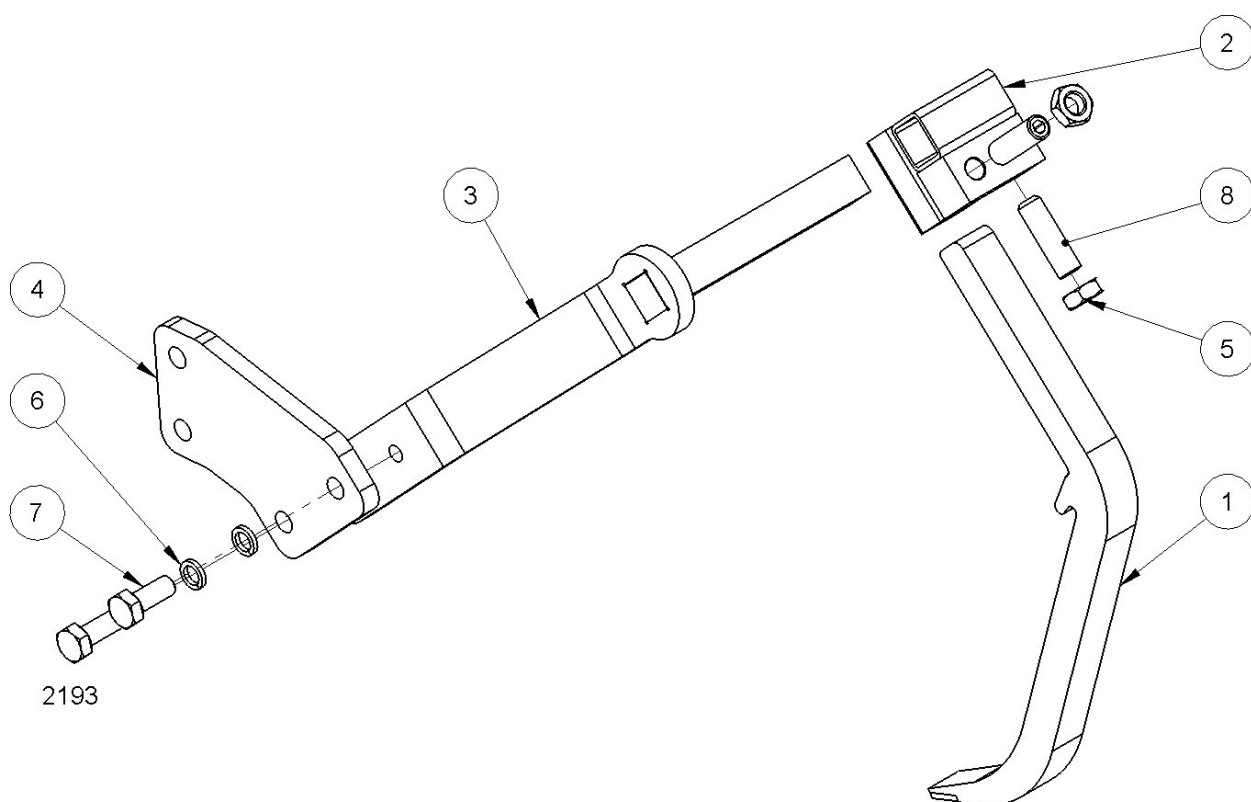
Item	Part No.	Description	Qty
1	217836	Pipe - Reducer	1
2	217216	Sowing Boot	REF
3	210218	Hose 32mm Grey - Cut To Length	REF

SOWING BOOT (POST 2010)
STANDARD (GPN: 224128)
OFFSET (GPN: 224673)



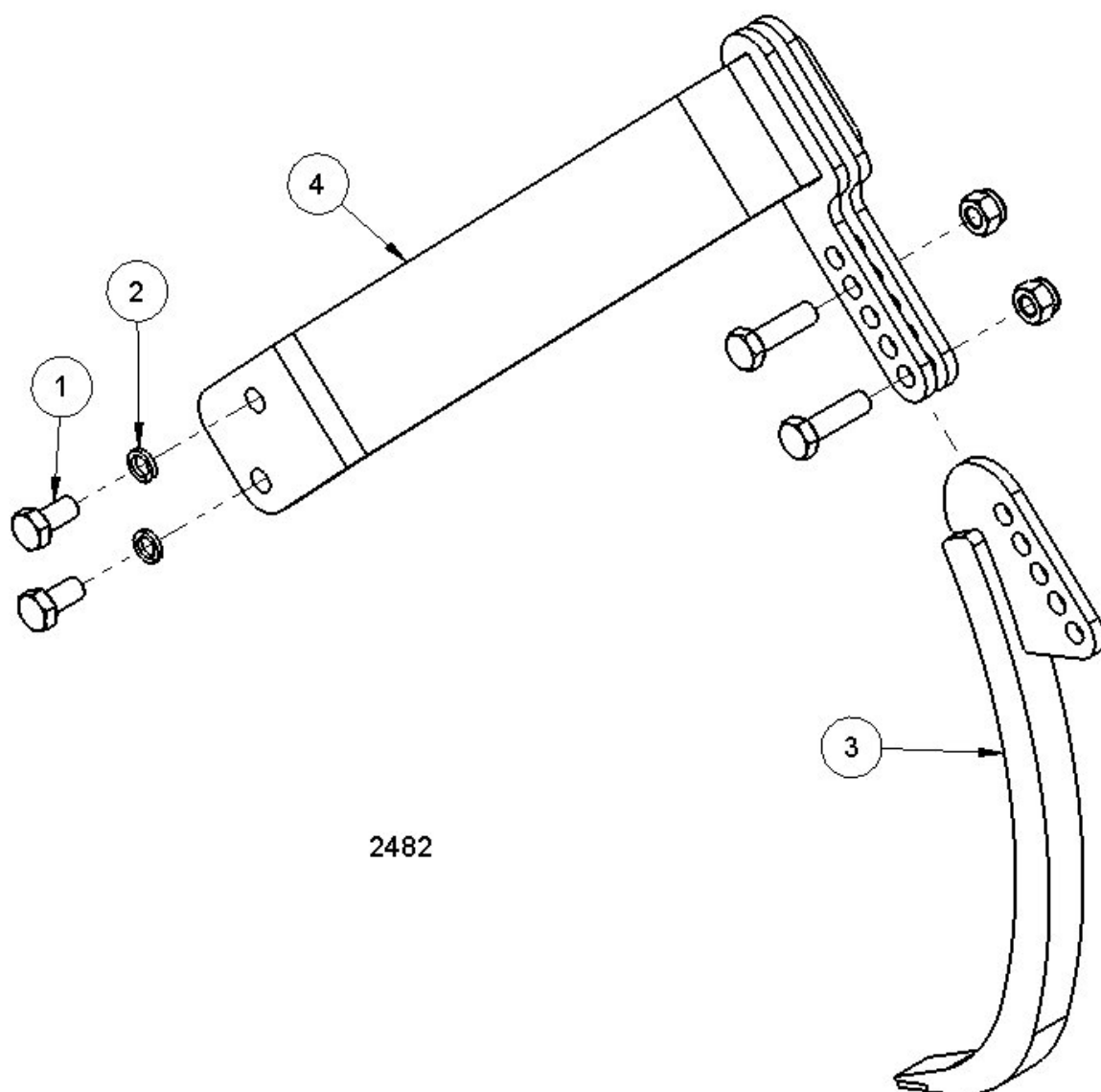
ITEM	PART No.	DESCRIPTION	QTY
1	224129	Sowing Boot Weldment	1
2	214727	Point - Keech Ddp12t	1
3	220177	Bracket Boot Mt - Presswheel	1
	218078	Bracket Boot Mt – Presswheel Offset	Ref.
4	906602	Washer Flat Structural 1/2"Gal	4
5	908604	Washer Spring 1/2 X 5/32 X 5/32 ZP	2
6	913617	Bolt M12x50x1.75 GR.10.9	2
7	922329	Screw Cap M5 X 16 SOC HD	1
8	903205	Nut Whiz Lock Flange M5 – Cl.10	1
9	229375	Plug – 13mm Hole Filler (Fit to arm mount plate lower/rear slot)	1
10	913617	Screw Set M12x40x1.75 GR.8.8	2
11	903605	Nut Nyloc M12 CL8	2

MUD SCRAPER (PRE 2010)
STANDARD (GPN: -----)
OFFSET (GPN: -----)



Item	Part No.	Description	Qty
1	216582	Mudscraper	1
2	216583	Bracket	1
3	216840	Mud Scraper Arm – Standard	1
	216994	Mud Scraper Arm – Offset (Ref.)	-
4	216846	Plate	1
5	902205	Nut Lock M12x1.75p Hex Z/P	2
6	909005	Washer Spring M10 X 2.35 X 2.40 Z/P	2
7	917403	Screw Set M10x25 Gr8.8	2
8	923218	Screw Grub M12x40 Knurled	2

MUD SCRAPER (POST 2010)
STANDARD (GPN: 216960)
OFFSET (GPN: 216961)



Item	Part No.	Description	Qty
1	917412	SCREW SET M10x20 GR8.8	2
2	909005	WASHER SPRING M10 x 2.35 x 2.40 Z/P	2
3	223341	MUDSCRAPER	1
4	223392	ARM L/H (Shown)	.5
	223393	ARM R/H (Not Shown)	.5
	224884	ARM L/H OFFSET (Not Shown)	Ref.
	224885	ARM R/H OFFSET (Not Shown)	Ref.
5	917405	SCREW SET M10x35x1.5P GR8.8	2
6	903406	NUT NYLOC M10 CL8 AS1285	2

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