

AGRI WELD

OPERATOR MANUAL

16 Meter Telescopic Grain Pusher



AGRI WELD

www.agriweld.co.uk

The Workshops
Main Street
Garton-on-the-Wolds
Driffield, YO25 3ET
Tel: 01377 259140
Fax: 01377 259141
Email: sales@agriweld.co.uk

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Summary

This Agriweld Telescopic Grain Pusher is to fit a Volvo L180H/E loading shovel and is specific to this machine. It must not be adapted or altered to fit any other loader without prior authorisation from our technical department for obvious safety reasons.

It can be used without extension to reach 12m and be fully extended to reach 16m maximum with 1m adjustable increments in between.

This grain pusher is for the piling and movement of grain, or similar produce within a grain type store. It is NOT to be used for any other purpose.

Total Unit Weight: 3400kg

Qualifications and Training

Only personnel with the appropriate forklift/loader license are authorised to use this machine.

Statutory minimum age limits must be observed and reliable, ***experienced personnel only should use, perform maintenance or work on this machine.**

Persons undergoing training or instruction or taking part in a general training course should NOT be allowed to use this machine even under direct supervision of an experienced and trained person.

The use of spare parts, accessories and ancillary equipment not supplied or approved by Agriweld could have detrimental effects to the construction or functions of the machine. Agriweld shall not be responsible for any damage caused by the use of spare parts or accessories and ancillary equipment not supplied or approved by Agriweld.

The operator must be aware of their responsibilities with regard to observing traffic regulations. The operator must have the authority to refuse instructions issued by third parties which contravene safety.

Any conversions or modifications to the machine may only be carried out after prior consultation and written confirmation from Agriweld.

The telescopic grain pusher and loader should be used with **extreme caution**, and the operator must NOT perform any sudden maneuvers due to the size of the equipment and forces imposed working at such extremes.



Further Safety

Any warning signs/instructions on the machine provide important information and must be observed.

Ensure that you are familiar with the equipment, controls and functions before starting work.

Check round the machine for any noticeable damage, or missing parts before each use.

It is advisable that the operator wears close fitting clothing to avoid the risk of snagging and trapping.

Ensure that you watch out for wandering individuals (particularly children!).

Always match your speed to the conditions and legal speed limits. Observe and respect traffic regulations. This grain pusher must NOT be transported down public roads, unless via road haulage service.

EXTREMELY IMPORTANT

Remember to take into account the size of this attachment and loader and be aware of the sideways forces acting on the machine when turning and negotiating corners. Always ensure adequate all round visibility.

Special Safety Instructions

Take extra care when hitching up or un-hitching the grain pusher to/from the loader. Be aware of what is under the grain pusher (such as your feet) before dropping it off.

Ensure that the loaders hydraulic system and other mechanics are in full working order, all forklifts and loaders are subject to an annual LOLER report (or equivalent).

Never allow any person to stand between the loader and the grain pusher during connection or at any time unless the loader is secured against rolling away by use of a parking brake and/or wheel chocks.

It is forbidden to allow any persons to ride or sit on the grain pusher at any time. Observers should maintain a safe distance when this machine is in use.

When performing any adjustments to the machine the loader must be switched off to prevent the hydraulics from operating.

The driving characteristics of the forklift/loader are influenced and altered by the attachment of mounted machines and it is important to ensure adequate steering and braking ability as required.

Important Maintenance

Maintenance checks should only be undertaken by a suitably qualified or *experienced person. It is important to check all pins for wear and ensure that none show significant signs of wear or damage. Replace as required with the same specification.

Check the condition of the rubber blade and replace as necessary. This is a wearing part and will require replacement over time.

Be observant for signs of distress to the bracketing and grain pusher beam

Check condition of all 6 rollers periodically and replace as required. This is a wearing part and will require replacement over time.

DO NOT USE this grain pusher if you feel there may be a fault or if the machine requires maintenance, until rectified or deemed safe to use.

Always read the operator manual before any repairs/servicing and request manufacturers advise if required.

***An experienced person is one with training, knowledge or who has participated in something related, for many years.**

SETTING UP / USING THE GRAIN PUSHER FOR THE FIRST TIME

Check the loading shovels hand book for the correct tyre pressures when using heavier attachments and adjust them accordingly.

Attach the grain pusher to the loader prior to extending the reach. Hitch the loader up to the bracketing like you would any other attachment. Ensure you are confident that the pusher is correctly attached before first use.

USING THE TELESCOPIC GRAIN PUSHER FOR THE FIRST TIME

Once you have the grain pusher attached to your loader, you are ready to begin use. We advise using the pusher without extension initially to get a "feel" for the attachment and loader together. We also suggest extending the pusher a little at a time to familiarise yourself at each stage BEFORE attempting to use it at full reach. **This is a very dangerous piece of equipment and extreme caution needs to be taken at all times.**

DO NOT attempt to take too bigger mouthful of grain (do not swamp the blade) with the pusher. Take smaller quantities rather than put unnecessary strain on the loader headstock and pusher. When you become more confident you will gauge what is a sensible amount for the loader and pusher to handle together.

USING THE TELESCOPIC GRAIN PUSHER AT FULL 16M EXTENSION

Ensure the tyre pressures are correct on your loader, and that you feel confident to use the grain pusher at this extension before attempt. It is extremely important that you use very slow and controlled movements when using the pusher at this capacity. Ensure that any spectators are at a safe and far distance away before and during use

When you are ready to use the pusher at full 16m extension, before you begin movement ensure that the loading shovel does not feel like it will tip forwards - ask yourself the question "does it feel too front heavy?" If you feel that it is, the grain pusher at full reach may be too heavy for the loader and you may need to retract the telescopic section to rectify this.

ADJUSTING THE WORKING LENGTH OF THE GRAIN PUSHER

We recommend making adjustments to the length of the telescopic section by this method. It is a 2 man operation, one person is required to drive the loader and the second person is required to signal to the loader driver when the desired length is reached and to replace the pins at one of the 4x adjustment points along the top of the telescopic section.

The operation MUST BE PERFORMED SLOWLY to prevent damage and injury. The person assisting the operator must remain at a safe distance during the process.

1. Place the blade on the ground, keeping the pushers entire beam and telescopic section as **horizontal to the ground as possible** to avoid damage.
2. Remove the telescopic adjustment lynch pin (6) and adjustment pin (5)
3. Use the loader to drive forwards slowly to reduce the extension or reverse the loader slowly to lengthen the telescopic section.
4. Replace the telescopic adjustment pin (5) and lynch pin (6) when you have reached the desired length as signaled by the second person.
5. Ensure that the person removing and replacing the locking pins (signaler) keeps a safe distance whilst the length is being selected and do not perform any movement with the loader whilst you can see the signaler is removing/replacing the pin.

When you reach the desired extension, double check that the locking pin (5) and lynch pin (6).

DO NOT STAND IN FRONT OR ALLOW ANY PERSON TO STAND IN FRONT OF THE GRAIN PUSHER WHILST MAKING THESE ADJUSTMENTS FOR SAFETY REASONS.

Main Body Assembly

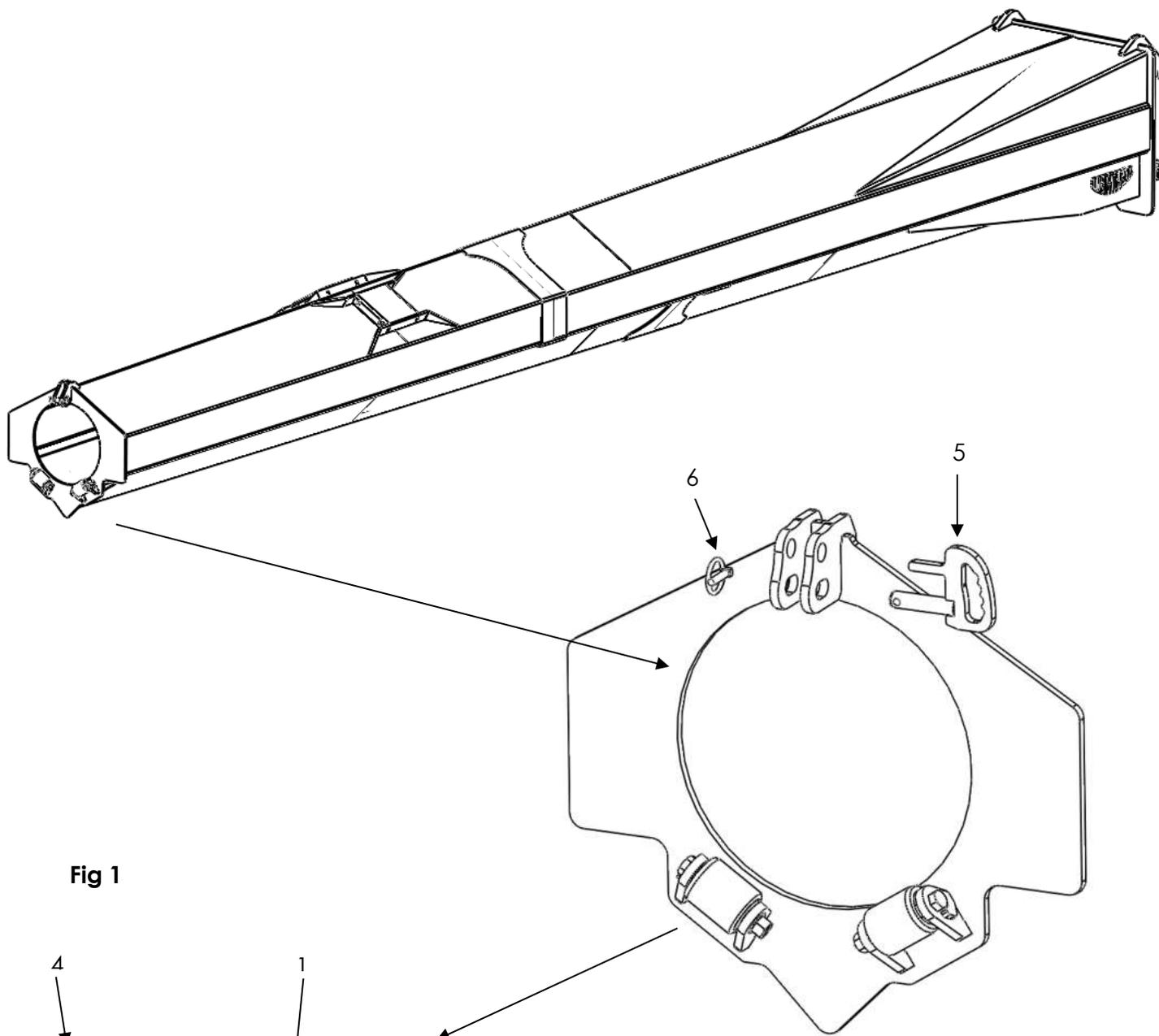


Fig 1



Main Body Assembly Continued

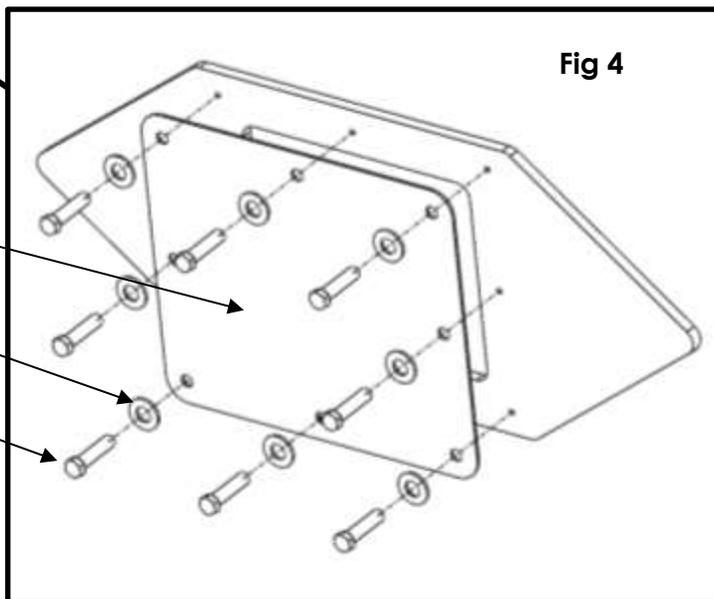
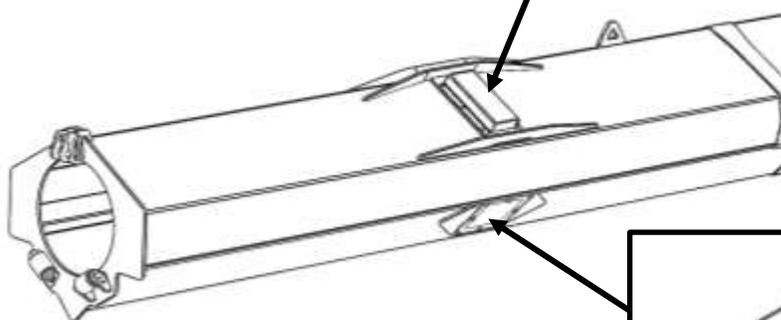
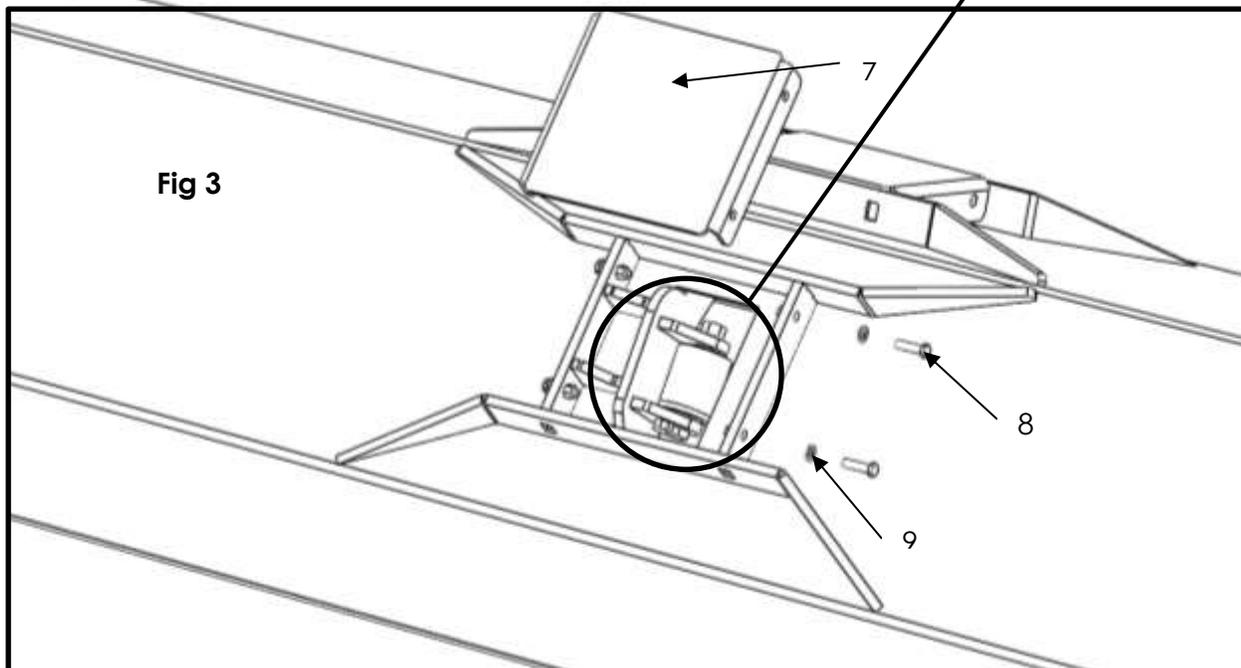
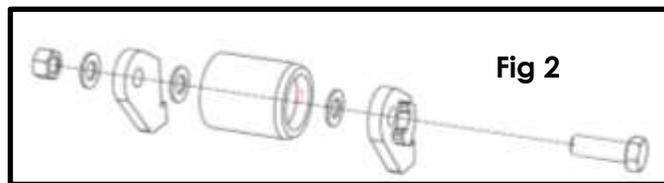
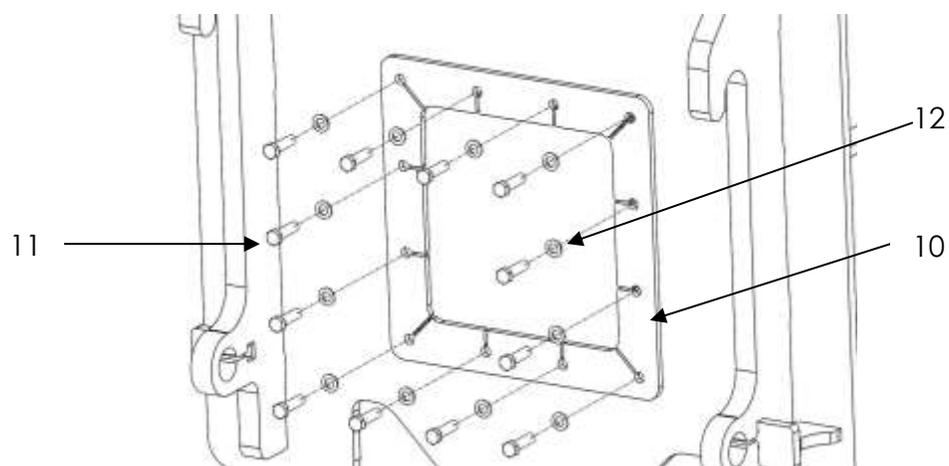
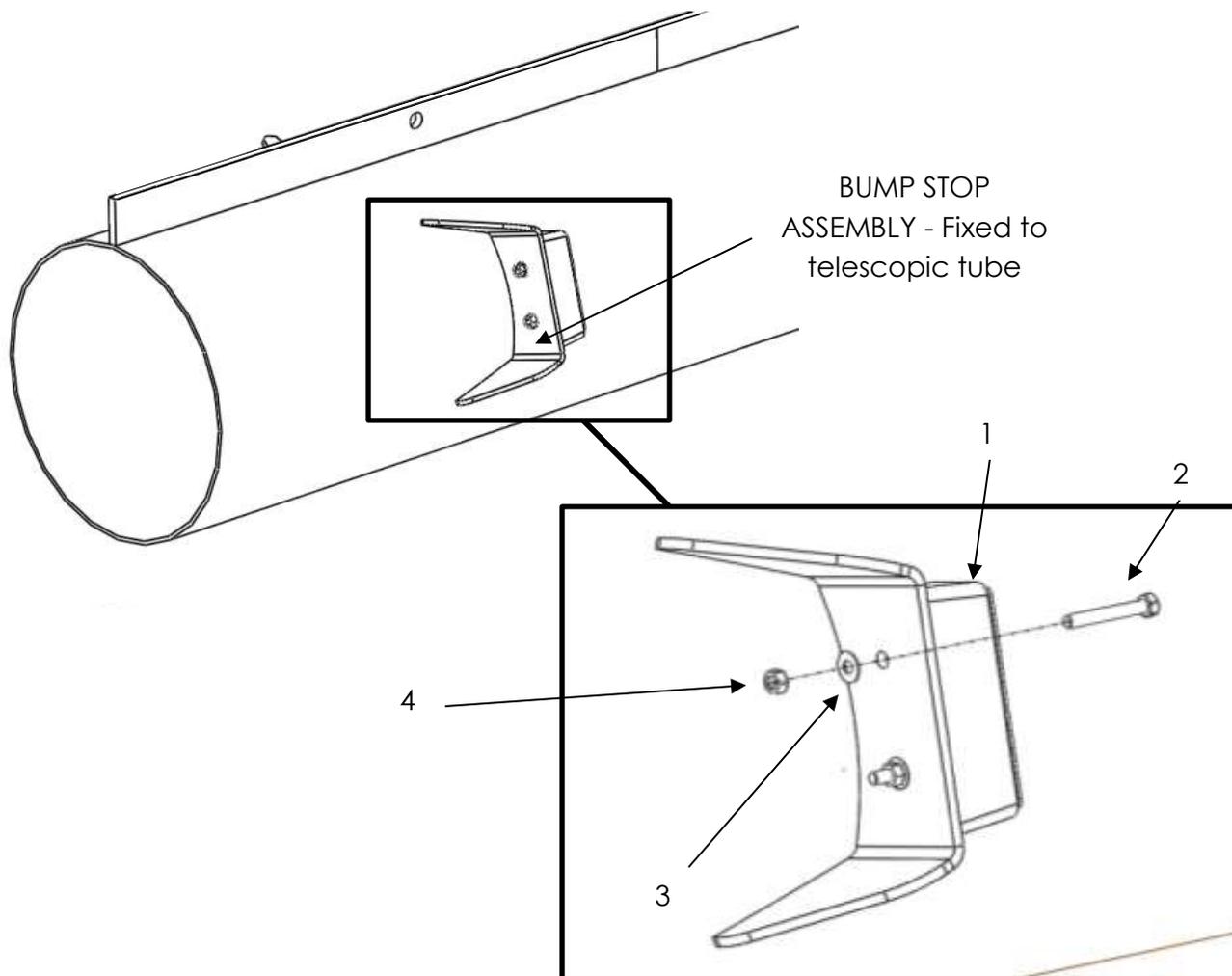


Fig 5



Item Number	Part Number	Description	Quantity per Machine
1	AW_Nylon_Wheel (roller)	Telescopic nylon roller (2 at Front, 2 in main body under lids (7), 2 Inside main body via back hatch see number 10)	5
2	M20 x 180	Roller Bolt	6
3	M20 Flat Washer	Roller Washer	20
4	M20 Nylock	Roller Nut	6
5	1519_SP	Telescopic Adjustment Pin	1
6	AW_LP11Z	Telescopic Adjustment Linch Pin	1
7	18M_W_0637	Roller Access Lid	2
8	M12 x 45	Roller Access Lid Bolt	8
9	M12 Flat Washer	Roller Access Lid Washer	8
10	18M_2002	Main Body Access Hatch (Used to Reach inner Rollers)	1
11	M16 x 60	Body Access Lid Bolt	12
12	M16 Flat Washer	Body Access Lid Washer	12
13	GG_0303_SP4	Lower roller access cover	1

Telescopic Tubular Assembly



5,6 and 7 - This assembly is located within the main pusher body and is not visible when the pusher is assembled. It is to prevent the accidental extraction of the tube from the main body assembly

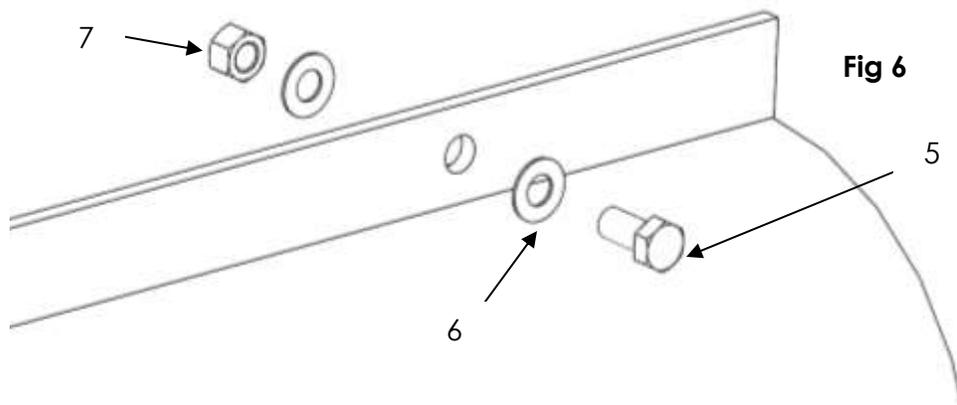


Fig 6

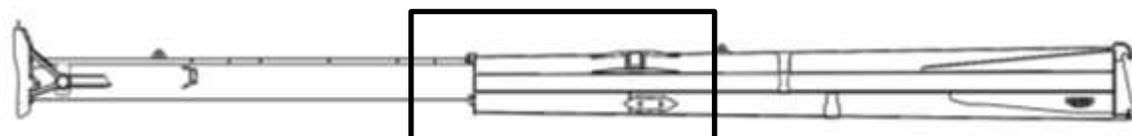
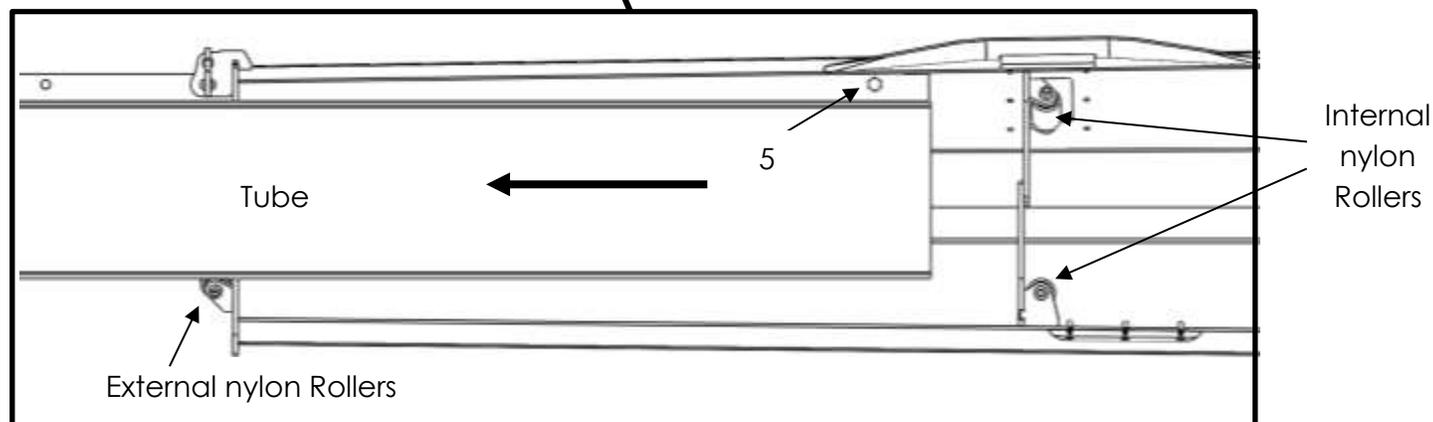


Fig 7



Changing Internal Nylon Rollers

There are 5 rollers fitted to the grain pusher. 2 located at the front of the main body assembly (**Fig 1-Page 8**) and 3 are located inside the main body assembly (**Page 9**).

When changing 2 the nylon rollers at the front of the main body assembly please refer to **Fig 1-Page 8**.

The 3 internal nylon rollers cannot be removed while the grain pusher is in working position. To change the 3 internal nylon rollers on the main body assembly you must first refer to **Fig 5-Page 10** which shows how to remove the main body access hatch (10). You can then physically enter the main body. **(Please ensure the Telescopic Adjustment Pin (5) is securely in place before entering to make sure the tube cannot move while you are inside the main body assembly. Ensure the loader is turned off and you have a second person on watch whilst you enter and perform the next stage).**

When inside the main body assembly, remove the telescopic adjustment stop (5) from the tube shown in **Fig 6**. Once removed, please physically exit the main body assembly yourself.

When the telescopic adjustment stop is removed you need to remove the telescoping adjustment pin and using the loader, reverse slowly to lengthen the extension. **(A second person is required to watch and signal)**. Allow the back of the tube to pass through the 3 internal rollers as shown in **Fig 7** above. **IMPORTANT: once the back face of the telescopic tube has passed through the 3 internal rollers, stop reversing the loader to ensure the tube does not also pass through the 2 external rollers as the tube could exit the end of the main body assembly and become damaged.**

The roller access lids can now be removed so the rollers inside are visible. Please see **Fig 3 & Fig 4 on Page 9** for this step.

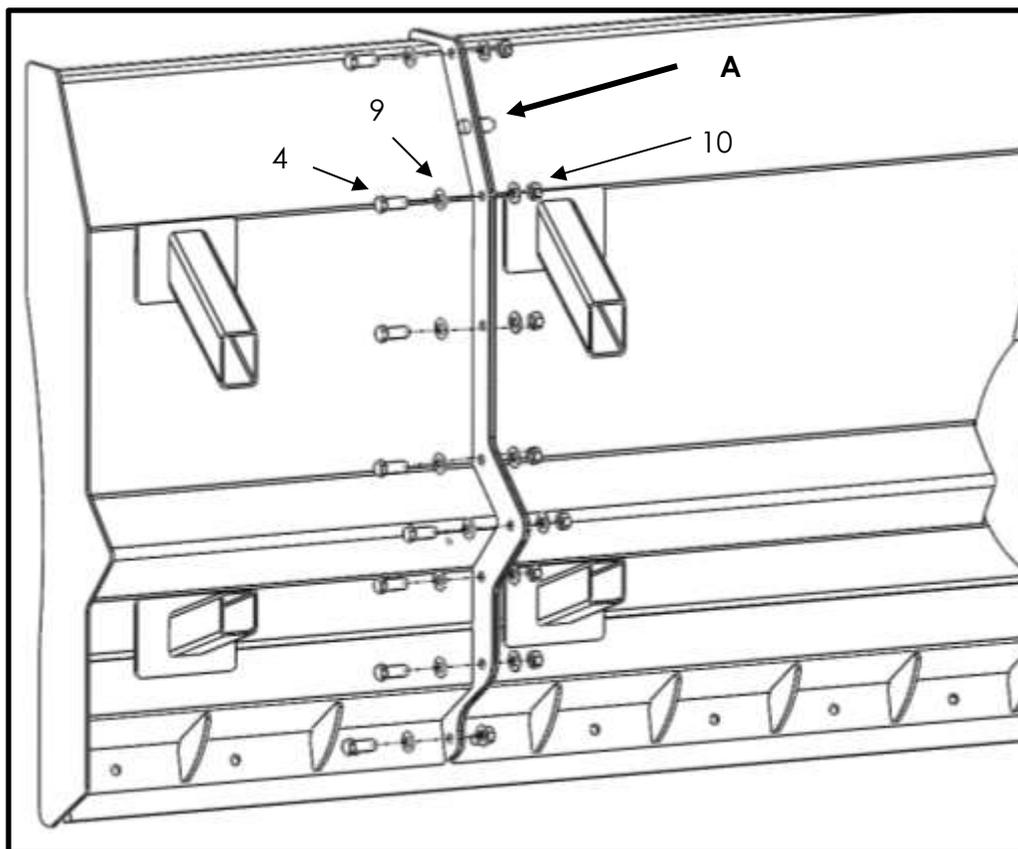
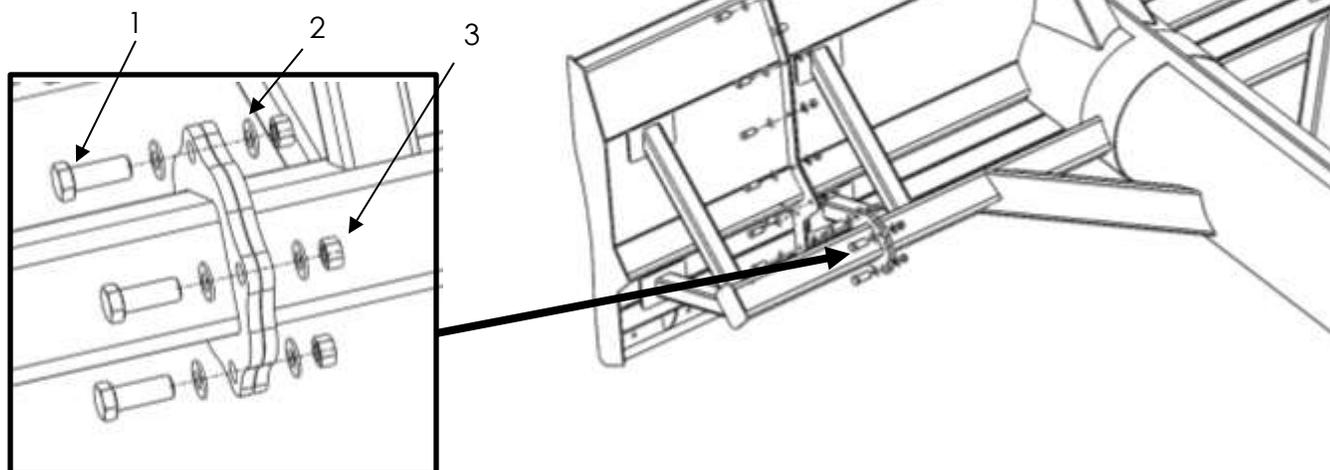
The 3 internal rollers can now be replaced; this is illustrated in **Fig 2 on page 9**.

Once they are replaced, follow these instructions in reverse to re-assemble the pusher. Ensure that the second person is available to assist when re-entering the main body to re-fit the telescopic adjustment stop (5). Double check that all components are replaced correctly before use.

Telescopic Tubular Assembly Parts List

Item Number	Part Number	Description	Quantity per Machine
1	AW_Bump_Stop_12	Blade Bump Stop	2
2	M12 x 45	Bump Stop Bolt	4
3	M12 Flat Washer	Bump Stop Washer	4
4	M12 Nylock	Bump Stop Nut	4
5	M24 x 50	Telescopic Adjustment Stop	1
6	M24 Flat Washer	Telescopic Adjustment Washer	2
7	M24 Nylock	Telescopic Adjustment Nut	1

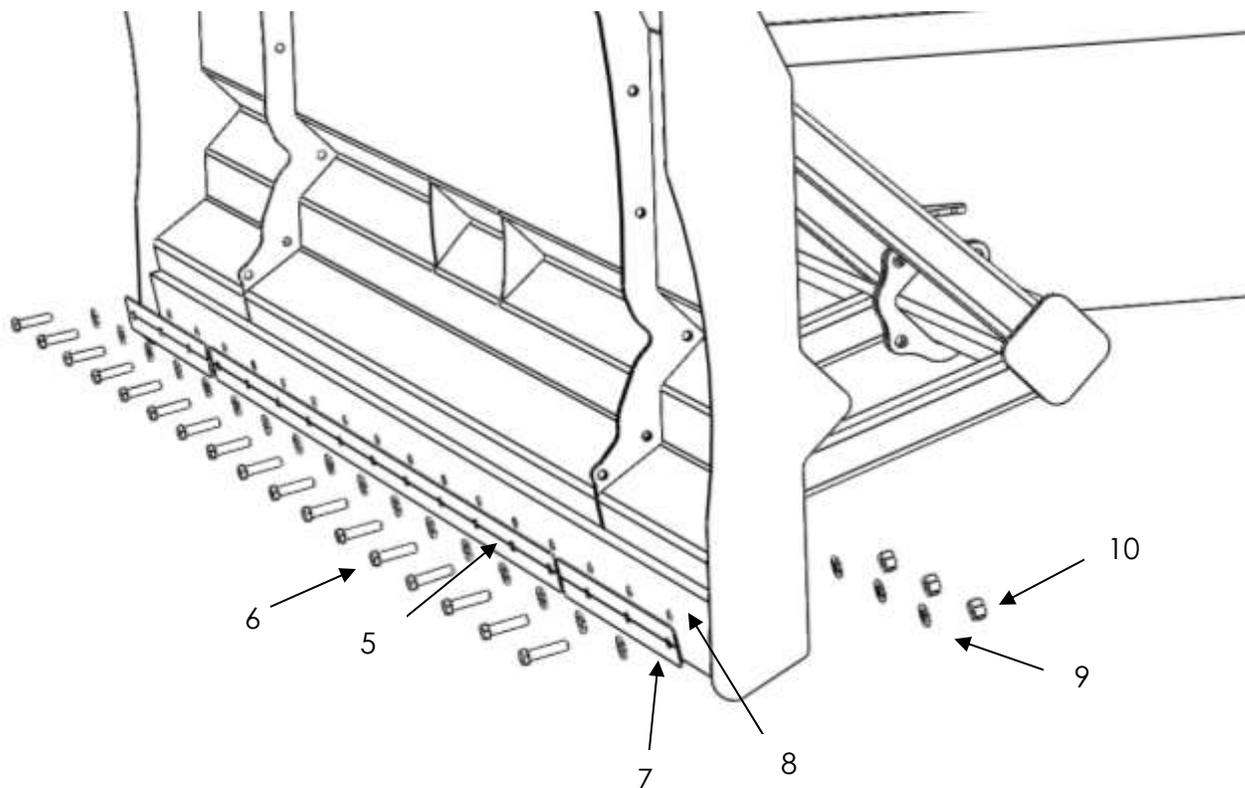
Attaching Blade Extensions



The single fixed dowel pin (**A**) welded to each blade extension aligns with a corresponding hole in the main blade to assist alignment of all bolt holes for attachment to the main blade. Position all fasteners in place without tightening. After all nuts and bolts are in situ, check that the blade extensions are fully aligned with the main blade assembly before fully tightening the fasteners.

NOTE: The rubber wear strip is fitted to the complete blade assembly once you are happy that the blade extensions are attached correctly.

Grain Pusher Blade



Item Number	Part Number	Description	Quantity per Machine
1	AW_M20x55_B	M20 x 55 Bolt	8
2	AW_M20_W	M20 washer	16
3	AW_M20_NL	M20 Nylock Nut	8
4	AW_M16x40_B	M16 x 40 Bolt	16
5	18M_W_0301	Rubber Strip Grip Plate	1
6	AW_M16x65_B	M16 x 65 Bolt	17
7	SP_0304_sm_Mk2	Small Rubber Strip Grip Plate	2
8	18_M_W_Rubber_Strip	Rubber Strip for Blade	1
9	AW_M16_W	M16 Washer	50
10	AW_M16_NL	M16 Nylock Nut	25

Stickers

Sticker	Part number	Description	Quantity per Machine
	AW_18M_WS (80mm x 80mm)	Warning Sticker	4
	AW_18M_AS (185 mm x 85mm)	Agriweld Sticker	3
	AW_18M_GB (85mm x 50mm)	Great Britain Sticker	3
	AW_18M_ALS (460mm x 90mm)	Agriweld Sticker	2
	AW_OM_S	Read operator manual sticker	1

Warranty

Your Agriweld Grain Pusher is covered for a period of 12 months from the date of dispatch (which is recorded on our files) against faulty components and/or bad workmanship.

Our welders are coded to ISO 9606-1 and our welding procedures are approved in accordance with ISO 15614-1 to manufacture your equipment. All products are checked for quality prior to delivery/collection.

We cannot be responsible for claims arising from ignorance, occurrences outside our control, such as accidents, and malicious damage and non-compliance with safety instructions.

Any damage occurred during transit must be reported on signing for the item from the haulier to enable us to enter a claim for damages direct with the haulier.

WARRANTY CLAIMS FOR DAMAGE DURING TRANSIT

Damage occurred during transit via an external haulier must be reported immediately upon unloading and signing for the item. The limit of our liability to undertake repairs to products damaged during transit is dependent on signing for any damaged product upon delivery as "DAMAGED".



CE DECLARATION OF CONFORMITY

The equipment which accompanies this declaration is in conformity with EU Directive(s):-

2006/42/EC Machinery Directive

Manufacturer Name:	Agriweld Ltd
Manufacturer Address:	Main Street Garton-on-the-Wolds Driffield East Yorkshire YO25 3ET
Product:	16m Telescopic Grain Pusher
Product Options:	All
Individual Serial Number:	
Product Description:	AGRIWELD Telescopic Grain Pusher To fit Volvo L180/E
Date of Last Load Test Report:	N/A
Supplementary Information:	Total Weight: 3400kg
Authorised Signatory on Behalf of Manufacturer:	
Name of Signatory:	Dawn Foster
Position in Company:	Director
Date of Issue:	