

AUSPLOW FARMING SYSTEMS

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PARTS BULLETIN No. 7-15

01-04-15

Subject: PRO-D FITTING INSTRUCTIONS

This parts bulletin contains procedures for fitting Pro-D ground engaging tools onto Ausplow DBS Auseeders tine assemblies.

All information, illustrations and product descriptions are current as at time of publication, Ausplow reserves the right to make changes at any time without prior notice or obligation.



ITEMS REQUIRED:

- Torque Wrench
- 1/2" Impact Gun
- Ring Spanners Set or,
 - 9/16 Ring Spanner
 - 13mm Ring Spanner
- Socket Set or,
 - 3/4 Socket
- Pro-D Pin Removal Tool or,
 - Hammer
 - Spare blade
- Thread locking Compound (Loctite)

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1. BLADE ADAPTOR WITH FERTILISER SHIELD;



Figure 1



Figure 2

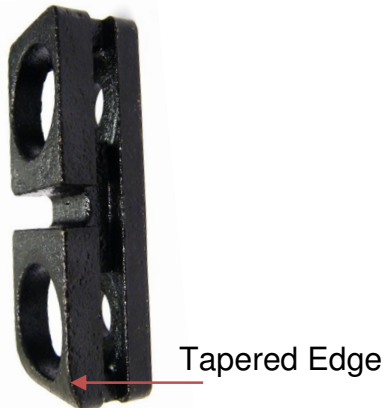


Figure 3



Figure 4

- (a) Prepare the Auseeder shank by removing the DBA blade assembly and fasteners.
- (b) Clean the shank mounting surface and holes (Figure 1).
- (c) Check the shank for damage and replace if necessary.
- (d) **Apply thread locking compound** on Pro-D fasteners.
- (e) Assemble the Pro-D blade adaptor, fertiliser shield, and fertiliser adaptor with supplied fasteners. Ensure nibs locate into the slots during assembly or damage may result (Figure 2).
 - 15830 Blade Adaptor Kit Pro-D (Refer to section 7).
 - 15831 Pro-D Fertiliser Shield & Boot Kit (Refer to section 7).
- I. **If installing fertiliser shield;**
 - Ensure tapered leading edge is pointing down (Figure 3).
 - Do not use washers under nuts.
- II. **If not installing fertiliser shield;**
 - Use supplied 1/2" flat washers under nuts.
- (f) Tighten the nuts to 139-150 Nm using an impact gun or socket bar (Figure 4).



CAUTION: The nuts for the double nib neck bolts on the blade adaptor must have thread locking compound and torque setting of 139-150Nm.



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2. BLADE ASSEMBLY INSERTION;



Notch	Depth	
	5-7 Blade	7-9 Blade
3	175 (7")	225 (9")
2	150 (6")	200 (8")
1	125 (5")	175 (7")

Table 1



Figure 5

- Undo the safety bolt to ensure it does not interfere with the retaining pin.
- Identify the blade depth required, and select the desired notch (See table 1).
- Insert the blade assembly into the blade adaptor, and line-up with chosen notch (Figure 5).



Figure 6



Figure 7

- Insert the 10mm retaining pin, retaining the blade in place.
- Strike the head of the retaining pin until fully home (Figure 6/7).
- Tighten the safety bolt (Figure 7).



CAUTION: The 10mm retaining pin must firmly grip the blade, and be secured with the M8x12mm safety bolt.



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3. FERTILISER SHIELD INSERTION;



Figure 8



Figure 9

- (a) Insert the flexible liquid tube into the fertiliser boot tip hole, if liquid kit is fitted, and secure the flexible liquid tube under the moulded clips (Figure 8/9).



Figure 10



Figure 11

	Depth
L	100mm (4")
H	75mm (3")

Table 2

(Protruding 5mm max)

- (b) Nest the boot into the fertiliser shield ensuring the flexible liquid tube does not come out of the fertiliser boot clips (Figure 10/11).
- (c) Slide the nested assembly onto the fertiliser shield adaptor to the required depth (See table2).
- The stainless steel fertiliser tube may require the fasteners to be loosened to allow the boot to slide over it.
 - Use of soapy water will assist the boot sliding on.



Figure 12



Figure 13



Figure 14

- (d) Insert the fertiliser boot locating pin through the required hole (Figure 12).
- (e) Snap the wire clip around the boot and over the pin tail (Figure 13/14).
- A medium blade screwdriver will assist in this process.
- (f) If no retaining clip is available, please use bolt set M8x60 (P/N 01458) through holes, and cable tie 290x4.8mm (P/N04316) through the slot to secure the assembly in place.
- (g) Connect the liquid tube push on fitting

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4. CLOSING TOOL ADAPTOR ASSEMBLY;



Figure 15

- (a) Prepare the rib assembly (Version3) or seed tube assembly (Version2) by removing the old closing tool assembly, and fasteners.
- (b) Clean the rib or seed tube assembly mounting surface and holes (Figure 15).
- (c) Check for damage and replace if necessary.



Figure 16

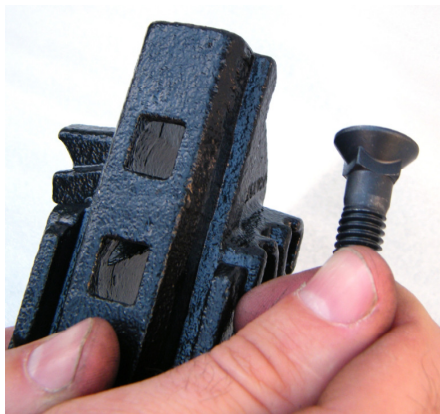


Figure 17



Figure 18

- (d) **Apply thread locking compound** onto the closing tool adaptor plow bolts.
- (e) Assemble the Pro-D closing tool adaptor, custom washers, bolts, and nuts (Figure 16/17/18).

Ensure the orientation of the closing tool adaptor as shown in figure 21, with the larger chamfer facing down.

- 15833 Pro-D Closing Tool Adaptor and Stem Kit (Refer to section 7)

- (f) Tighten the nuts firmly using a ring spanner (approx. 54-61Nm).



CAUTION: The Pro-D plow bolts must have thread locking compound and a torque setting of 54-61 Nm.



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5. CLOSING TOOLS & ASSEMBLY;

- Attach the closing tip on the stem (Figure 19).
- Insert the M8x30 screw and nyloc locking nut (Figure 20).
- Tighten firmly.

6. CLOSING TOOL INSERTION;

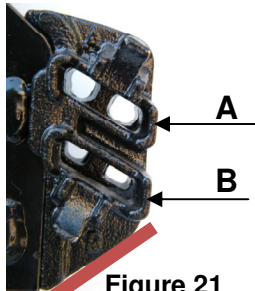


Figure 21
Adaptor Chamfer



Figure 22



Figure 19



Figure 20

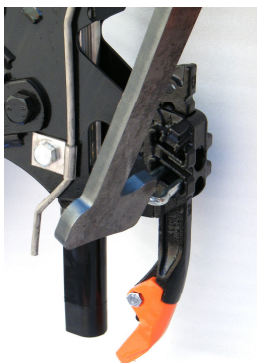


Figure 23



Figure 24



Figure 25

- Check the required depth for the closing tool (See table 3).
- Insert the stem with the attached tip into the closing tool adaptor at the required notch (Figure 21/22).
- Insert the 8mm retaining pin into the required slot (A or B).
- Strike the head of the pin until flush and firmly in place (Figure 23/24).
- Insert the safety R clip into the hole at the tail end of the pin (Figure 25).

Hole Engagement	Depth (mm)	Depth (inches)
A2	16mm (above)	5/8" (above)
B1	8mm (above)	5/16" (above)
A3	0mm	0"
B2	8mm	5/16"
A4	16mm	5/8"
B3	24mm	1"
A5	32mm	1 1/4"
B4	40mm	1 5/8"
A6	48mm	2"
B5	56mm	2 1/4"

Table 3

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7. VERSION3 TINE ASSEMBLY PRO-D KITS

15830 Blade Adaptor Kit Pro-D

26995	Blade Adaptor Pro-D	x1
27110	Bolt 1/2" UNC x 3 Double Nib Po-D	x2
09014	Nut 1/2 " UNC – ZP	x2
27055	Retaining Pin10mm Pro-D Blade	x1
09733	Screw Hex M8x12 ZP	x1
09017	Washer Flat M8 ZP	x1
09066	Washer Spring M8 ZP	x1
09031	Washer Flat M12 ZP	x2

15831 Pro-D Fertiliser Shield & Boot Kit

15794	Fertiliser Shield Pro-D	x1
27018	Fertiliser Shield Adaptor Pro-D	x1
27014	Fertiliser Boot Pro-D	x1
15797	Fertiliser Boot Locating Pin Pro-D	x1

15833 Pro-D Closing Tool Adaptor and Stem Kit

15780	Closing Tool Adaptor Pro-D	x1
27136	Retaining Pin 8mm Pro-D Closing Tool	x1
27101	Bolt Plow 3/8 x 1.375" 16 UNC Allow	x2
27148	Washer Closing Tool Pro-D	x2
09732	Nut Hex 3/8 – 16UNC	x2
15787	Closing Tool Stem Pro-D	x1
09485	Screw Hex M8 x 30 ZP	x1
09080	Hex Nut M8 Nyloc	x1
09734	R-Clip 1.6 x 33mm	x1

Carl Myers
Parts Manager

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