STACK-FOLD PLANTER
OPERATOR'S MANUAL

For Service & Spare Parts:

1300 564 144

spares@bosseng.com.au

bossagriculture.com.au

bossagparts.com.au

BOSS Engineering Inc / BOSS Agriculture

For further information about any of the products shown please visit - bossagriculture.com.au

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BOSS Engineering Pty Ltd
40 Taylor Ave
Inverell NSW 2360 Australia
Ph: 1300 441 484
Email: bossag@bosseng.com.au
PO Box: 326
Inverell NSW 2360 Australia
www.bossagriculture.com.au
ABN: 42 660 143 037

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1. Welcome

Congratulations on your purchase of a BOSS Agriculture Forward-Fold planter.

The BOSS journey began when four founders, each with a unique blend of engineering, manufacturing and hands-on farming experience came together with a shared goal – to create better more specialised solutions for growers. Their complementary skills and unwavering drive to solve real on-farm challenges became the foundation of BOSS Agriculture, and that spirit of innovation continues to shape everything we do today.

Proudly Australian, BOSS designs, engineers, and manufactures every machine in our cutting-edge 30,000m²+ facility in Inverell, NSW. Here, innovation meets craftsmanship to create equipment built for the toughest Australian conditions. When you choose BOSS, you're supporting local jobs, local expertise, and a legacy of quality and support that you can trust season after season.

At BOSS, our Grower's Loop is the foundation of how we work — a continuous cycle of listening, partnering, and acting. We stay connected to growers, understanding their challenges and goals, and using that insight to design and engineer solutions that deliver real on-farm results. It's a two-way partnership that never stops, with the grower at the centre of everything we do.

Please use this comprehensive resource to gain a full understanding of your equipment, and don't hesitate to contact us for further information.

James Haarhoff
CEO
BOSS Agriculture

2. General Features

BOSS Agriculture linkage Stack-fold frames are built with a 200mm x 200mm RHS mainframe and a remote 100mm x 100mm RHS toolbar. The BOSS range of row units bolts directly to the toolbar, providing flexibility for row spacing, wheel spacing and future changes to your farming operation.

Frames are available in 9m and 12m widths, with rigid or contour-following wings. Stack-fold frames are compatible with all BOSS disc row units and can be supplied with lift assist or offset linkages where required. The 12 m Stack-fold folds to under 6m for transport.

General Features:

- Available in various widths and configurations.
- Compatible with all disc and tyne row units.
- Hydraulic saddles support and route all hoses.
- Includes saddle provisions for air seeder hoses.
- Optional heavy-duty depth gauge wheels are available.
- Optional frame-mounted central fill, air seeder or liquid tanks are available.
- Hydraulic hoses are protected with spiral wrap in high-wear areas.
- Cat 3 / Cat 4 linkage is supplied as standard.
- Parking stands are included.

3. Safety Information

This Safety Alert Symbol identifies important safety messages.

When this symbol appears:

- Carefully read and understand the message that follows
- Be alert to the risk of personal injury or death.

Signal Words

The following signal words are used throughout this manual:

- ⚠ DANGER – Indicates a hazardous situation which will result in death or serious injury if not avoided
- ⚠ WARNING – Indicates a hazardous situation which could result in death or serious injury if not avoided
- ⚠ CAUTION – Indicates a hazardous situation which may result in minor or moderate injury if not avoided
- NOTE – Indicates important information not related to a hazard.

- Read and understand the Operator's Manual before using this equipment.
- Ensure safety stands are in place before working under implement.
- Ensure the tractor is shut down and the key removed before working on implement.
- Be aware of pinch points on the row units and planter frame.
- Ensure the implement is securely chocked when unhooking to prevent the implement from rolling.
- Do not disconnect hydraulic breakaway couplings while the hydraulic system is under pressure.
- Inspect for hydraulic leaks and replace hoses if required. Do not inspect for oil leaks with bare hands, as small invisible high pressure oil leaks can penetrate the skin and require treatment.
- Pressurised hydraulic oil can harm or kill.
- Never ride on implement when operating.
- Do not let children climb or play on implement.
- Ensure safety pins are in place when the implement is in the folded position.
- Ensure the tractor is ballast correctly for linkage machines.
- Be aware of overhead powerlines when transporting a folded implement.
- Width and height restrictions may apply when travelling on public roads, consult your local transport regulator for specific requirements in your area.
- Max travelling speed is 20km/h.
- Ensure tyres are inflated to the correct pressure as recommended.
- Inspect the implement regularly for loose bolts, damaged or worn components and replace as required.
- Inspect and keep wheel studs tight.
- Do not stand between the tractor and implement while coupling the implement up.
- Ensure all safety signs are in place and replace if damaged.
- Ensure all safety guards are in place.
- No individuals within 50 metres when the implement is operating

4. Road and Field Travel

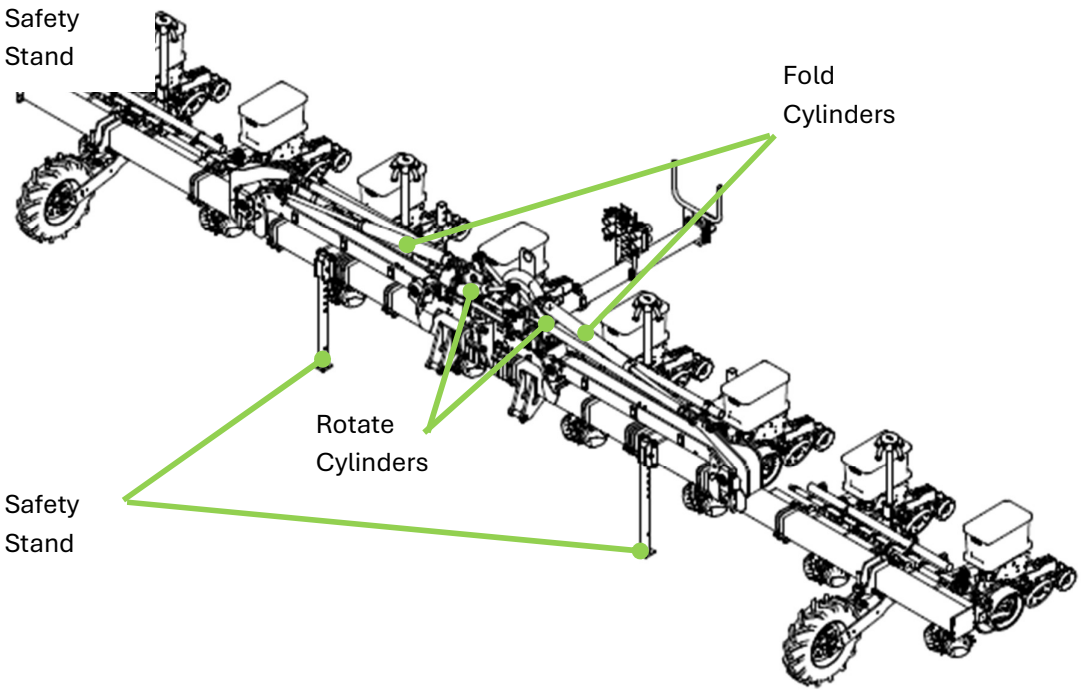
⚠ WARNING: BOSS planters are designed primarily for in-field operation. Tyre selection and position is designed for optimum in-field use. Continuous high speed road travel is not recommended.

We understand road travel may be required from time to time, and as such certain steps and guidelines need to be considered for personal and public safety, and to avoid tyre damage.

- Always use an agricultural tractor large enough and with sufficient braking capacity to stop the combined unit quickly and safely.
- Make sure tyre pressures are correct as per operator's manual or inflation stickers located on the rim.
- Ensure all wheel nuts are present and tight as per operator's manual or wheel nut torque stickers located on the rim.
- Make sure connection pin and hitch components are in good order with no possibility of the implement coming unhooked.
- Travel Speed should not exceed 20km per hour.
- Planters are often oversize and as such follow local laws regarding excess dimension transport requirements.
- Exercise caution when transporting BOSS Planters on public roads in poor visibility, or when road conditions are wet as stopping capability may be reduced.
- Be aware of overhead powerlines at all times.
- Do not allow anyone to ride on the implement at any time.
- High road temperatures significantly reduce tyre carrying capacity, stop and check tyres regularly and allow to cool before continuing.
- Ensure fold safety pins are in place and any components fitted to the implement cannot fall off during transport.
- Know the limitations of the implement when negotiating changes in road conditions. Reduce speed over uneven or rough terrain, and be aware of hazards such as bridges, trees, fences, power lines and other road users.

BOSS Planters are not intended for frequent, high-speed, or long-distance road transport. Road travel should be limited to essential, infrequent, short-distance movements and undertaken at reduced speeds in accordance with the guidelines set out above.

5. Parts Familiarisation



6. Hook-Up

DANGER:

Ensure no-one is at risk of being crushed or trapped before commencing hook-up of the implement and tractor.

Steps:

Connect all hydraulic lines making sure all hydraulic fittings are clean prior to connection. All hydraulic dump lines are required to be connected correctly to avoid damage to the implement, row units or air seeder. BOSS dump lines are generally labelled, however, ensure you have an understanding of the machines operation and connect hydraulic lines accordingly.

Connect electrical wiring harnesses (if applicable).

7. Setting Frame Operating Height

The frame operating height is set by adjusting the frame gauge wheels using the spanner provided. (See Figure 1 below). The correct operating height is determined by the row unit fitted to frame; refer to the row unit operating manual for instruction on setting frame height. Some frame configurations may need to be carried out on the linkage.

Ensure frame is level when setting the lower linkage limit.

Tools Required:

- ¾" spanner, Metal ruler

Steps:

1. Using a ¾ spanner, loosen the locating bolts on all four ram stops (2 on each cylinder).
2. Using a ruler, adjust all four ram stops to achieve the required under-bar operating height.
3. Once all stops are evenly adjusted, tighten the locating bolts.

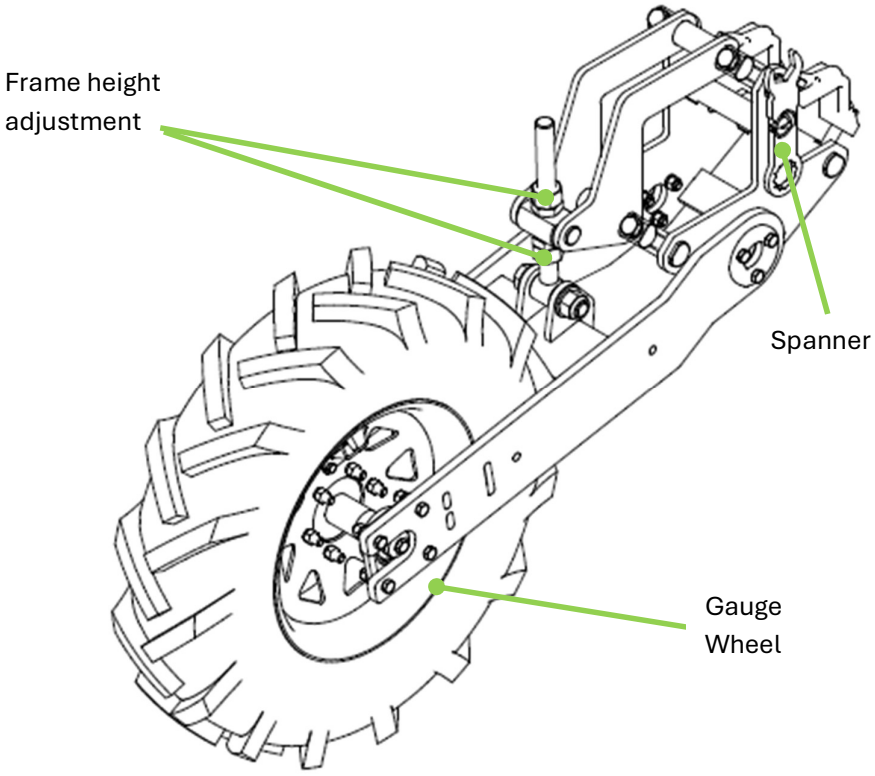


Figure 1: Gauge Wheel Adjustment

8. Rigid Bar Configuration

⚠ NOTE: The use of the Rotate or Stack-fold circuits whilst in this configuration may cause structural or hydraulic damage.

Steps:

1. Unfold bar as per normal.
2. Reposition the pin from the Pin Stowage position (E) and install into Rigid Frame position (D) (see Figure 2).
3. Prior to folding, reposition the pin from the Rigid Frame position (D) to Pin Stowage, position (E).

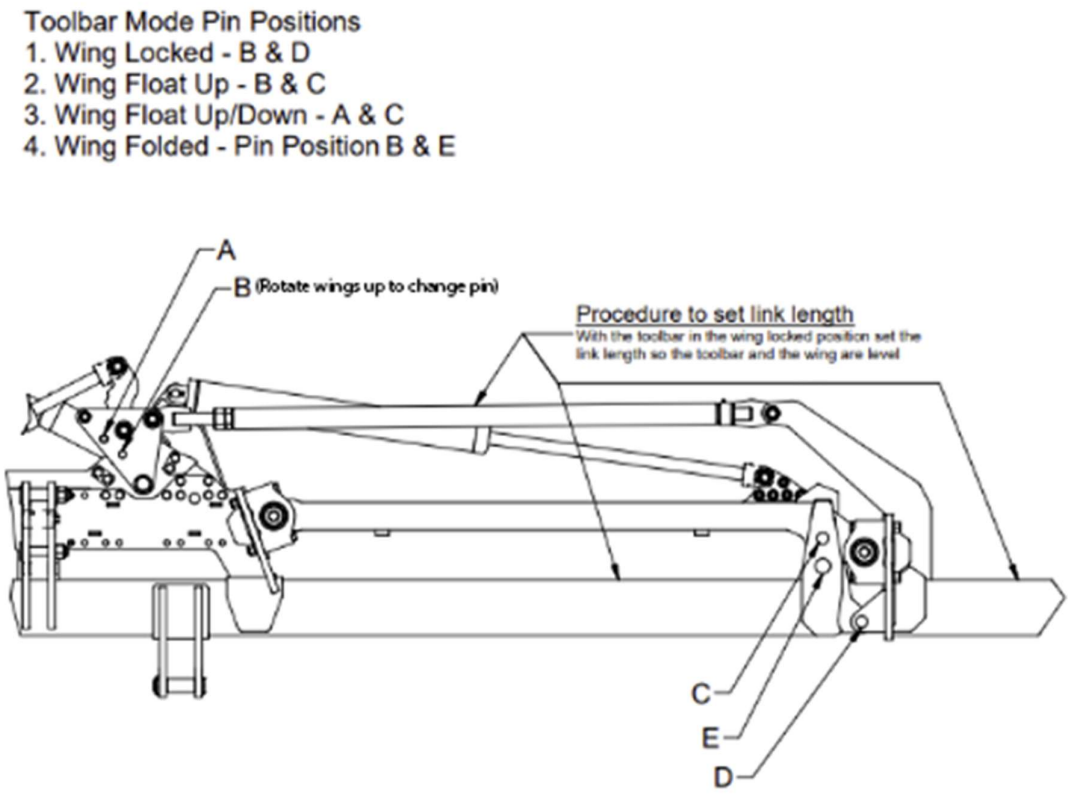


Figure 2: Rigid Bar Configuration

9. Wing Float-Up Configuration

⚠ NOTE: The use of the Stack-fold circuit in this configuration may cause structural or hydraulic damage.

Steps:

1. Unfold bar as per normal.
2. Reposition the pin from the Pin Stowage position (E) and install into Contour Follow position (C) (see Figure 3).
3. Prior to folding, reposition the pin from the Contour Follow position (C) to Pin Stowage, position (E).

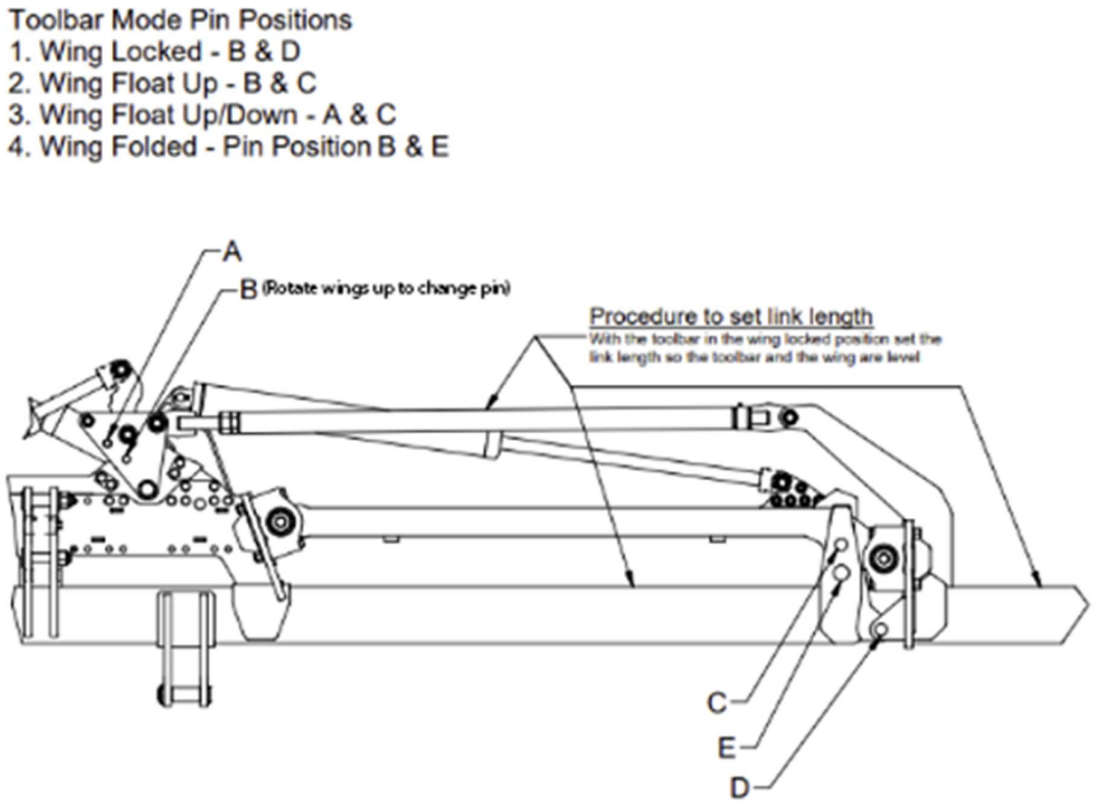


Figure 3: Wing Float-Up Configuration

10. Contour Flex Configuration

To use your Stack-Fold in the full Contour Flex configuration, you will have to turn the Down-stop over (see Figure 4).

Steps:

1. Ensure pin is in the Pin to Fold position when in contour flex configuration (B) position.
2. Unfold as normal.
3. Rotate wing up.
4. Turn Down-stop over.
5. Move pin to the Pin Stowage position (A).

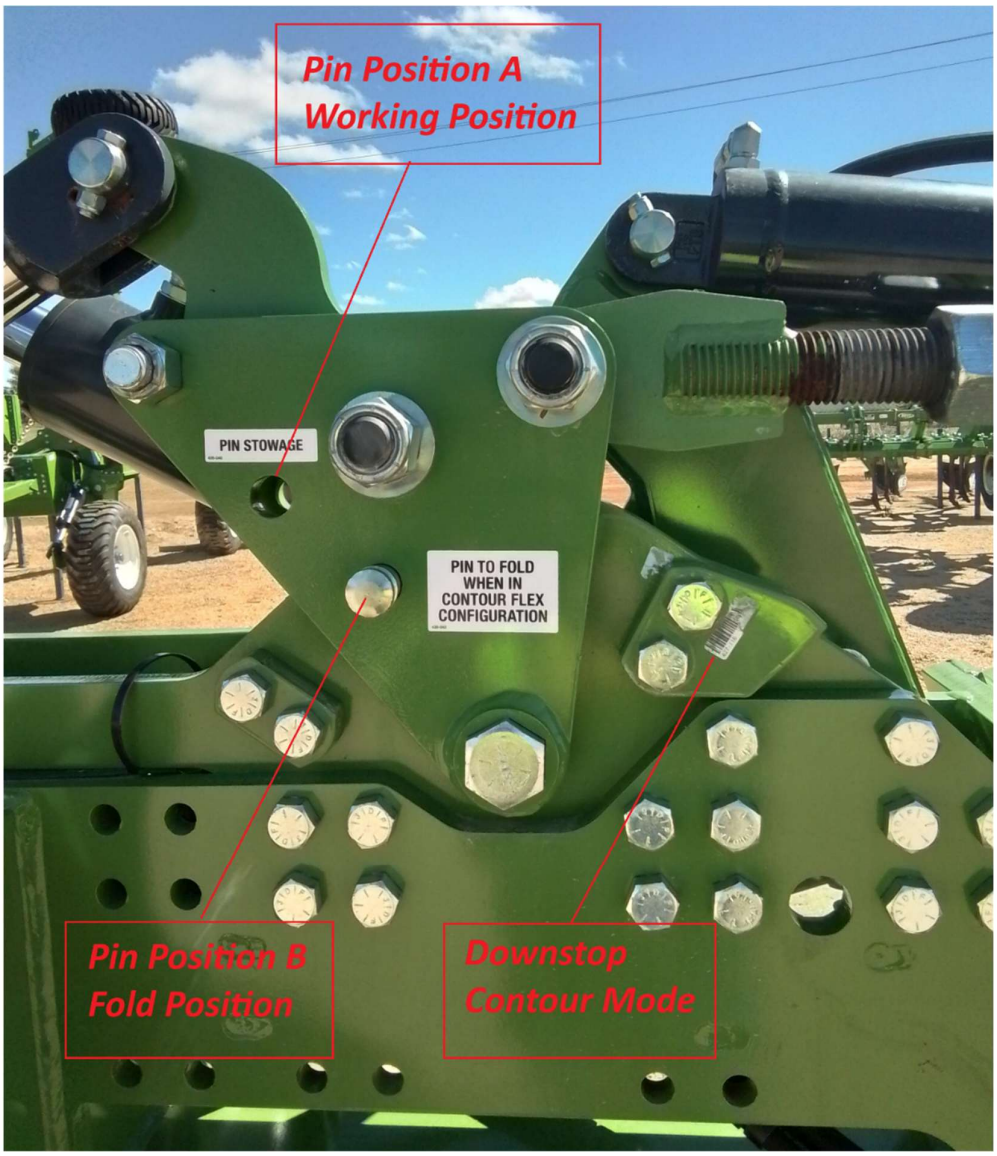


Figure 4: Contour Flex Configuration

11. Contour Flex Operation

Steps:

1. Unfold Stack-Fold as normal.
2. Activate the Rotate Cylinders.
3. Reposition pin from Pin to Fold (B) into Pin Stowage (A)(see Figure 4). This will allow wing to float up and down.
4. Reposition pin from Pin Stowage (E)(see Figure 5) and install into Contour Follow (C).

⚠ NOTE: Machine cannot be folded in this configuration!

To fold your Stack-Fold:

5. Activate the Rotate Cylinders.
6. Reposition pin from Pin Stowage (A) into Pin to Fold (B)(see Figure 4).
7. Reposition pin from Contour Follow (C) to Pin Stowage (E)(see Figure 5).
8. Float Rotate Cylinders, then fold as per normal.

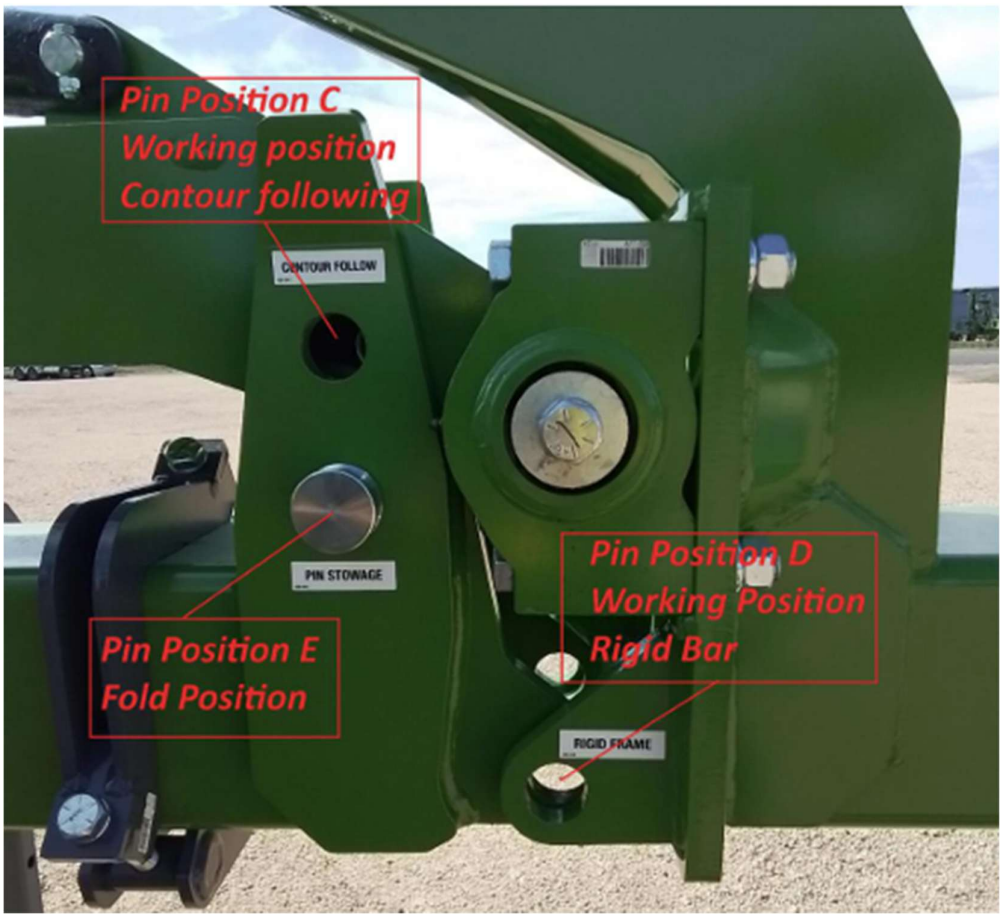


Figure 5: Contour Flex Operation

12. Important Bolts to Check

All wheel nuts

13. Maintenance

Before Servicing:

- Shut off the tractor engine
- Remove keys from ignition
- Check that all moving parts have stopped prior to servicing
- Make sure all safety stands and safety pins are in place
- Never place hands or feet under row units.

Your BOSS Fold Forward Frame requires minimal maintenance to keep in good shape. Below is a guide to maintain your Fold Forward Frame. Maintenance procedures may vary depending on ground/soil conditions and the amount of use your implement does both in-field and on-road.

13.1. Wheel Nut Torque

8 Stud	275ft-lb
10 Stud	500ft-lb

13.2. Recommended Tyre Pressure

Centre Tyres	46psi (maximum)
Wing Tyres	60psi (maximum)

Maintenance (Cont.)

13.3. After First 5 hours Check

- Check all wheel nuts.
- Check drawbar mounting bolts through to the front hitch.
- Check Air Seeder pull bolts.
- Check Wheel bearing preload
- Check for Hydraulic leaks

13.4. Daily Maintenance

- Periodically check all wheel nut tension throughout the first days after delivery until wheel nut tension is maintained.
  (see Section 12.1)
- Purge frame pivots with Grease
- Check for hydraulic leaks.
- Check tyres are inflated correctly. (see Section 12.2)
- Check hydraulic pins are secure with end clips in place.
- Check hitch pins are in place and secure.

13.5. Weekly Maintenance

- Check all wheel nut tension. (see Section 12.1)
- Check for any loose or damaged bolts & replace if necessary.
- Check for hydraulic leaks & repair if necessary.
- Check tyres are inflated correctly. (see Section 12.2)
- Check drawbar mounting bolts through to the front hitch bolts are tight.
- Check Air Seeder pull bolts are tight.
- Check hydraulic fold rams & lifting rams are in good condition with all mounting pins secure with safety clips or end bolts in place.
- Check safety stands & safety decals are in place.
- Visually check bearings in fold pivots, ensure the circlips are in place & bearings are retained properly in the housing.
- Check main frame wheel axle retaining bolts are tight and the axle has not moved.

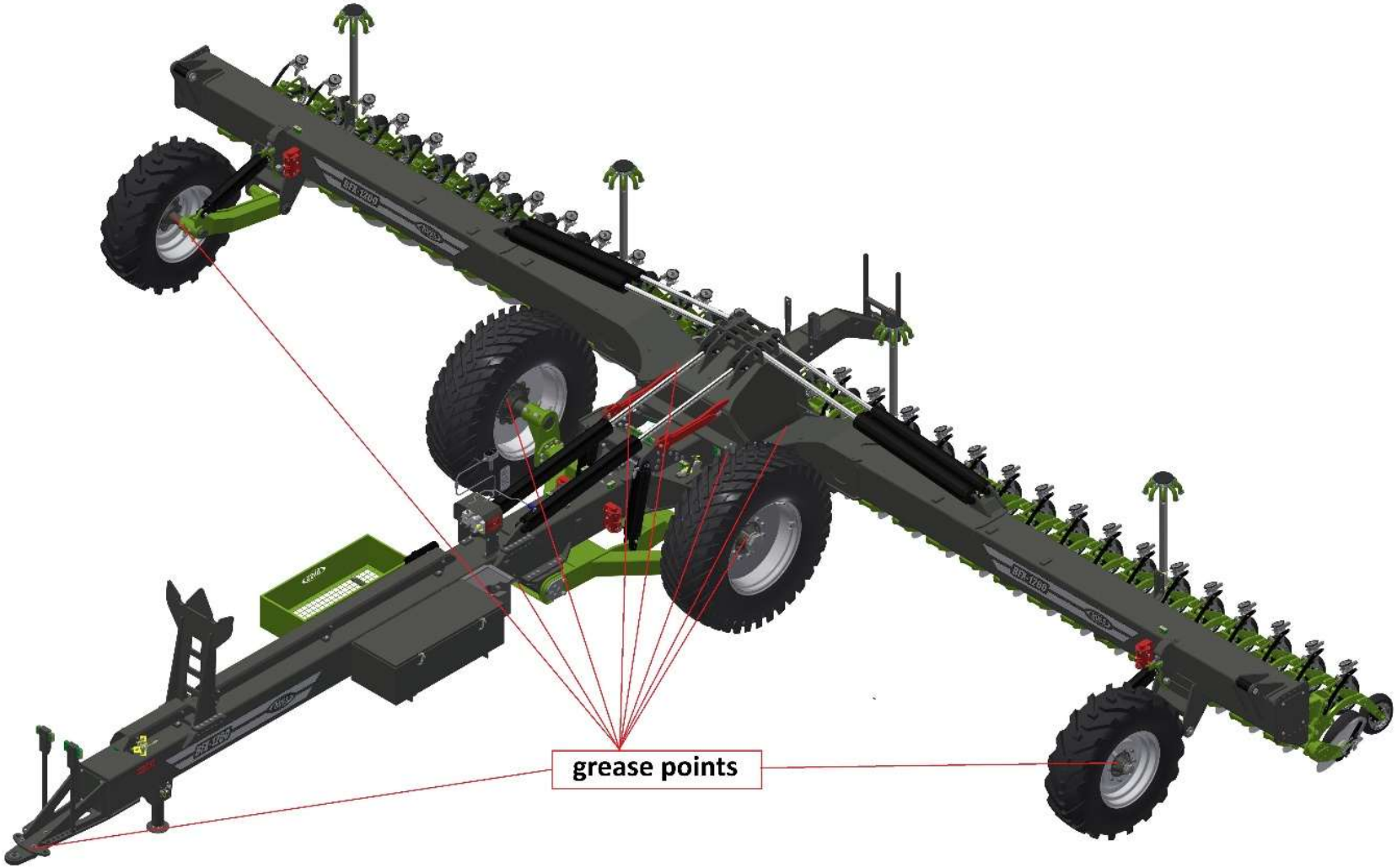
Maintenance (Cont.)

13.6. Annual Maintenance

- Check all wheel nut tension. (see Section 12.1)
- Check for any loose or damaged bolts & tighten or replace if necessary.
- Check for hydraulic leaks & repair if necessary.
- Check hydraulic hoses are in good condition & replace if necessary.
- Grease wheel bearings. (bearings are fitted with purge seals however always ensure the seal is seated correctly after greasing)
- Check wheel bearing preload & adjust as necessary.
- Check tyres are in good operating condition.
- Check tyres are inflated correctly. (see Section 12.2)
- Check drawbar mounting bolts through to the front hitch bolts are tight.
- Check Air Seeder pull bolts are tight.
- Grease frame pivots with 1-2 pumps grease.
- Check hydraulic fold rams & lifting rams are in good condition with all mounting pins secure with safety clips or end bolts in place.
- Check safety stands & safety decals are in place.
- Visually check bearings in fold pivots, ensure the circlips are in place & bearings are retained properly in the housing.
- Check frame wheel axle retaining bolts are tight and the axle has not moved.
- Check all pins and bushes for wear and replace as required.
- Clean and wash the implement down touching up any areas where paint has been removed.

NOTE: Some hydraulic components such as hydraulic cylinders depend on oil residue for rust protection; avoid using any harsh cleaning products during wash-down.

13.7. Grease Points



14. Notes

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