DAWN®

70 Series Front Folding Toolbars

7040

7044

7060

Folding Sequence

Quick Start Guide

Part Number B9682
English
March 2025
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Fold Box

Notes:

- Used on toolbars S/N BDO-XX-XX-017+ (split rephasing manifold)
- SCV hoses must be connected.
- Power Beyond and Load Sense must be connected. *****
- Fold Box must be connected to the toolbar harness and powered from the cab.

* If Load Sense is not available, an SCV must be on continuous

Warnings:

- Ensure no personnel or equipment will interfere with the folding operation.
- Ensure safe working practices around hydraulics.
- Avoid pinch points when working around the toolbar.

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Unfolding

Travel Mode

1. Make sure the tractor is in **Park**.
2. Make sure Fold Box power is **On.**
3. Remove the **Red** Safety Link from the wing ends.
    a. Utilize two 1-1/8" wrenches to remove.
4. Press **Raise** on the **Travel Height** switch until the toolbar transport lift is fully raised.
5. Safely lower the **Red** Transport Height Lockup that is located on the rear axle.
6. Press **Lower** on the **Travel Height** switch until the toolbar transport lift is fully lowered.
7. Pull **SCV II** backward until the tongue is fully raised.
8. Pull **SCV I** backward until the wing wheels are fully extended.

Fold Mode

9. Press **Unlock** on the **Wing Lock** switch until the Wing Lock is fully raised.
10. Put the tractor in **Neutral**.
11. Push **SCV II** forward to lower the tongue.
    a. Lower tongue to #4 on the Tongue Height Indicator.
        i. Number might differ depending on ground conditions and tractor settings.
12. Pull **SCV I** slowly backward until the toolbar is fully opened.
    a. **On 7040 and 7044 toolbars, make sure tongue is low enough for wing hooks to clear draft arm**.
    b. On 7040 and 7044 toolbars, a series of limit switches help minimize the risk of hitting the draft arm.
        i. If toolbar fold seems to be "locked", lower tongue to release tripped limit switch.
13. Return tractor to **Park**.

Field Mode

14. With the toolbar fully open, press **Lock** on the **Tongue Lock** switch until the lock is fully engaged.
    a. The **Red** Indicator Rod should be horizontal.
15. Pull **SCV I** backward to raise toolbar for 5 seconds to rephase the system.
16. Use **SCV II** to lower or raise the tongue until the Tongue Height Indicator reaches working position.
    a. Proper tongue height indication will depend on the ideal row unit settings.
17. Toolbar is now ready for field work.

Folding

Field Mode

1. Make sure the tractor is in **Park**.
2. Make sure Fold Box power is **On.**
3. Use **SCV II** to lower or raise the tongue until it reaches #4 on the Tongue Height Indicator.
    a. Number might differ depending on ground conditions and tractor settings.
4. Pull **SCV I** backward to raise toolbar for 6 seconds to make sure the toolbar in the fully raised field position.
5. Press **Unlock** on the **Tongue Lock** switch until the lock is fully disengaged.
    a. The **Red** Indicator Rod should be vertical.

Fold Mode

6. Put the tractor in **Neutral**.
7. Push **SCV I** forward, the toolbar should start to close.
    a. **On 7040 and 7044 toolbars make sure tongue is low enough for wing hooks to clear draft arm**.
    b. If assistance is needed to close the toolbar, press **Lock** on the **Wing Lock** switch until the wing lock pulls the wings together around the tongue tube.

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8. The wings should barely be touching the tongue tube at this point.
    a. Too much clamping force from the Wing Lock won't allow tongue tube to move upward in the next step.
9. Pull **SCV II** backward to raise the tongue all the way.
    a. The wing hooks should be fully resting on the tongue tube.
10. Press **Lock** on the **Wing Lock** switch until the Wing Lock is fully retracted.
    a. Should see the row units move slightly upwards.

Travel Mode

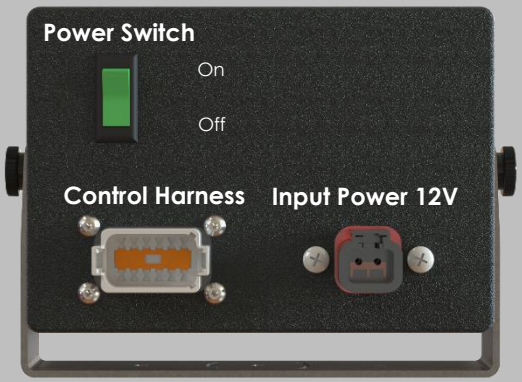
11. Put the tractor in **Park**.
12. Push **SCV I** forward until the wing wheels are fully retracted.
13. Press **Raise** on the **Travel Height** switch until the toolbar transport lift is fully raised.
14. Safely raise the **Red** Transport Height Lockup that is located on the rear axle.
15. Press **Lower** on the **Travel Height** switch until the toolbar transport lift stops moving downward.
    a. The **Red** Transport Height Lockup should be fully engaged with the bottom side of the toolbar.
16. Install the **Red** Safety Link on the wing ends.
    a. Utilize two 1-1/8" wrenches to install.
17. The toolbar is now ready for transport. Drive Safe.

Selector Dial Activation Functions

Field Mode	**Fold** Mode	**Travel** Mode
- Diverts **SCV I** flow to all lift cylinders - Tongue Lock - Weight Transfer - Fan - Load Sense Override	- Diverts **SCV I** flow to fold cylinders * - Wing Lock	- Diverts **SCV I** flow to wing lift cylinders * - Travel Height

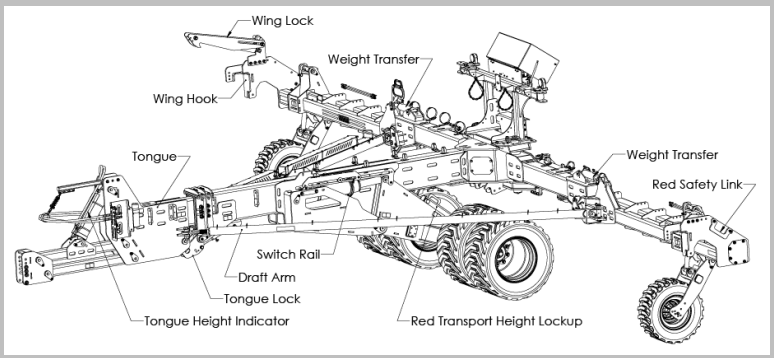
*Master switch located on Switch Rail must be disengaged (toolbar in field mode fully raised position) to go into selected mode

Fold Box Connections



- The supplied power cable should be attached to keyed power inside of tractor cab and plugged into the **Input Power** port on the Fold Box
- Control harness from toolbar should be plugged into the **Control Harness** port on the Fold Box
    - The connector is keyed, **Do Not** apply excessive force
    - Press in until a click is heard

Toolbar Functions



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Problem	Causes	Solution
Toolbar is lowering when trying to lower wing wheels	- Fold Box does not have power - Lost connection to rear system controller	- Check for loose connections - Check that the Fold Box supply voltage is between 12-14 volts - Check Fold Box switch is “On” - Check that the Lift Switch on Switch Rail is not engaged
Toolbar will not go into fold mode	- Toolbar is not raised all the way up in field mode - Lost connection to rear system controller - Fold Box power switch is “Off” - Tongue position is too high	- Check for loose connections - Check that the Fold Box supply voltage is between 12-14 volts - Check that the Lift Switch on Switch Rail is not engaged - Make sure the toolbar is fully raised in field mode
Toolbar will not go into travel mode	- Lost connection to rear system controller - Fold Box power switch is “Off”	- Check for loose connections
Rocker Switch won’t perform desired operation	- Selector dial is not in correct position - Hydraulic hoses are not installed correctly - Fold Box power switch is “Off” - Lost connection to rear system controller	- Refer to chart for selector dial function activation - Check hydraulic hose connections - Check for loose connections

Contact Dawn Equipment for Further Diagnostics

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