

WILLIAMSON-AGRI 

BUNKSWEEPER

Operation Manual

SAFETY

BEFORE OPERATING THE BUNKSWEEPER:

- READ THE INSTRUCTION MANUAL.
- Look - Spot any hazards or potential hazards that exist in the work you are doing.
- Think - Assess the risk to the health and safety of yourself and others, and to the environment.
- Act - *Make it safe*. Make sure you do something to minimise or eliminate the risk.
- Do not operate machine if anyone is in the pen, or if any machines are working close to the bunk. Be aware that any stones present in the feed bunks can turn into projectiles by Bunksweeper operations.
- Hydraulic hoses work under high pressure, do not disconnect while under pressure.
- Ensure locking pins on the loader hooks are correctly engaged; the Bunksweeper could fall off if this is not done.
- Do not operate machine while not seated in the loader.
- Ensure all rubber shrouds are in good condition.
- Do not lift the Bunksweeper higher than necessary for clearance while transporting.
- Do not transport the Bunksweeper at high speed.
- Do not put hands anywhere near rotors or brushes while machine is operating.
- Make your self aware of the pinch points around the machine.
- Stay clear of moving or stationary parts that are closing or that may close together.
- Stay clear of rotating parts.



ATTACHMENT

1. Attaching to your loader

- Pick up the Bunksweeper by engaging both hooks and raising the loader arm only slightly off the ground, just enough so that the hooks are taking the weight of the Bunksweeper.
- Drive loader forward toward frame while crowding the tilt ram. This stops the Bunksweeper from moving while attaching to the loader.
- Ensure locking pins are fully engaged.
- Level out machine so the rotor is parallel with the ground.
- Remove Bunksweeper head storage feet.

2. Connect hydraulic hoses.

- To connect hoses, stop engine then switch ignition to on.
- Operate auxiliary valve with engine stopped to release pressure in hoses.
(Refer to your loader manual regarding the operation of auxiliary valve.)

After checking locking pins are engaged and removing storage feet do a walk around of the machine to check for any potential hazards. Re-enter the cabin and start the loader, engage the hydraulics at low rpms to check for correct rotor rotation. Your machines rotor should turn so the rubber paddles are rising up the pen-side of the bunk wall and coming down on the road-side bunk wall. If your rotor doesn't turn at all you may need to swap the hydraulic couplings over.

OPERATION

1. Set Up

- There are two guidance wheels, one at the front and one at the rear of the sweeper head. These run along the inside of the roadside bunk wall.
- There are multiple adjustments for each wheel.
- The front guidance wheel should be mounted so that the front of the machine runs as closely as possible to the road-side wall.
- The rear wheel should be set so that the brushes touch the pen-side wall. The head twists around the centre holding pin on the head so that the head runs slightly twisted in the bunk.
- Optimum set up has the Bunk sweeper angled across the bunk, with the front of the machine close to the road-side bunk wall, the rear of the machine the tips of the brushes should be just engaged with the pen-side bunk wall. The head has swivel adjustment and can be locked into position with the tightening of two bolts either side of the pivot point.
- Drive the loader at a distance that keeps the head in the feed bunk so that the head hangs as near to vertical as possible.
- Have the head slightly raised at the front.
- DO NOT OPERATE MACHINE IF ANYONE IS IN THE PEN OR IF ANY MACHINES ARE WORKING CLOSE BY – STONES AND OTHER FOREIGN OBJECTS PRESENT IN THE BUNKS CAN TURN INTO PROJECTILES DURING BUNKSWEEPER OPERATION.

2. Rotor speed

- The adjusting screw on the flow controller mounted on the main frame of the Bunk sweeper adjusts hydraulic flow and in turn rotor speed.
- Rotor speed should be just fast enough to lift the feed out of the bunk.
- Excessive speed wears out the rubbers and brushes and may damage the motor.



Rear guide wheel positioned correctly against the road-side wall.

MAINTENANCE

- There are only two grease nipples, on the rotor bearings. Grease every 40 hours.
- Changing brushes:
Release locking collar on rear bearing, remove bolts holding bearing and remove bearing from shaft. Loosen the ½ in stud holding the rear clamp that holds the brushes and remove brushes and spacers. There are 6 brush sections and 5 spacers. Replacement is the opposite of removal.
- Changing rubber paddles
Remove the 3 bolts holding the clamp on each rubber paddle and remove rubber. Refit new rubber, making sure that the clamp is on the top, when viewed from the pen-side of the head.

TROUBLE SHOOTING

Rotor does not rotate:

- *Hydraulic couplings not connected properly. Reconnect couplings.*
- *Flow control turned completely off. Adjust flow controller.*

Feed left in bunk:

- *Rotor speed too slow, speed up rotor with flow controller.*
- *Rotor not low enough in bunk, lower head into bunk.*
- *Loader forward speed too high, slow down.*

Brush not touching pen-side wall:

- *Guidance wheels not set in correct positions. Reposition wheels to correct.*
- *Loader not being driven the correct distance from bunk, head should be hanging vertically.*
- *Brushes and rubber paddles worn – replace.*

Excessive wear of brushes and rubber paddles:

- *Rotor speed is too fast.*
- *Rotor being run too low in bunk - only the brush tips should touch the base of the bunk.*
- *Loader is not being driven the correct distance from bunk, (swing arms should be vertical).*



Loader too close to bunk. Swing arm not straight. Leaving feed in bunk.



Bunksweeper being driven correctly, hanging vertical in bunk.

WARRANTY

- The Bunksweeper is under warranty for 12 months from the date of delivery.
- This limited warranty covers failure due to faulty manufacturing.
- The warranty does not cover and specifically excludes faulty materials, or components that were procured from third party suppliers.
- However, we will seek compensation or replacement by the manufacturer (supplier) of any faulty materials or hardware.
- Any modifications made to, or misuse of the Bunksweeper will negate the terms of the warranty.

DEPTH WHEEL

ASSEMBLY

Your new Williamson-Agri Bunksweeper has been fitted with a depth control wheel. To accommodate transport this assembly has been packaged separately. To install the depth wheel assembly simply remove the pin and collar from the 50mm pin at the pivot point indicated below (a) and the 30mm bolt (b). Place the short arm of the assembly on the outer (furthest from the loader) of the Bunksweeper head and reinstall the 50mm pin. Take the weight of the depth wheel and reinstall the 30mm pin through the top link (c). Tighten all bolts, until the assembly is firm against the sides of the head but can still move up and down. Reinstall the 50mm collar and pin. Adjust the depth wheel by turning the rod with a large spanner or adjustable wrench. The depth wheel will allow the user more control of the height of the rotor in the bunk and limit paddle and brush wear.

