

Field Bin Operation Guide Lines

NORRISH FIELD BIN

65 & 50 Ton Field Bin

Bakers Hill



Follow all work place safety rules, conditions and regulations at all time. Children and spectators must be supervised while around Field Bin and kept well away from Field Bin while in operation.

Tyre Pressure

Recommend 50 pound/square inch = (344.737 864 kilopascal)

Check wheel nuts regularly for first month

15 inch Auger Speed

Maximum efficient output of any auger is achieved at 550 RPM we recommend lift auger speed between 400 to 550 RPM,

Starting Grain Auger

Engage tractor PTO at idle, once turning smoothly, increase PTO speed to recommended RPM.

Over Run PTO

Larger of the two PTO shaft is fitted with an over run clutch, allowing the 15" lift auger to reduce speed slowly when disengaged, without putting any back pressure on tractor PTO drive system.



Grease Point There are 7 grease point on your Field Bin, 2 x on rocking axles (Yearly), 1 x on top of 15" auger (Yearly), 4 x on folding roof hinges (2 Years).

Oil in Gear Box

Recommend a quality heavy duty gear (Oil 85-140) in 45 degree lift auger Gear Box drive, only 300 mls required, Gear Box has correct oil and level on delivery.

Folding

The roof opens and closes in sequence, this is achieved with special control valves; please don't adjust without first contacting Norrish service Group as may upset timing. **Must complete opening and closing cycle**, failure to and only open or closing part way and then reverse movement may result in damage to lid overlap.

Draw Bar Connection

Is designed to be connected to the tractor at all times, the draw bar raises when wheels are raised for transport, and lowers slowly when lowering to working position. The bottom hole is used to set the desired ride height for transport, once set, will stay in that position, The top pin is use for transport, once the bin is raised for transport, insert pin in closest hole to draw bar to take weight off hydraulics. Once in position remove top pin and lower to ground.



Cut PTO Shaft

Bin permanently connected to tractor, cut PTO shaft to length when the tractor and bin are at their closest point.

Filling

Select a suitable level site to place Field Bin before beginning storage.

Fill Evenly

It is good management practice to alternate filling sides of Field Bin. To reduce grain pressure on one side of bin

Tandem Wheels for Transport.

When raised for transport, pin the sliding axle assembly for safe transport operation, take's weight off hydraulic system.





Man Hole

As there are **NO** safety guards over pickup auger flighting inside bin, manhole access must remain locked at all times. Cannot stress enough, Please ensure man hole is locked for safety reasons as this is the only easy access point in Field Bin. **Disconnect PTO from tractor before entering Field Bin.**

Transporting

The Field Bin weighs approximately 2.7 ton, when transporting ensure the towed vehicle is of large enough mass to control the field bin at safe speed, under all road and towing conditions.

Hydraulic Motor Drive Model

Oil returning from Hydra motor, must return to a low pressure sump return (not through break always), direct to sump, failure to do so may result in hydra motor damage and or poor performance. Tractor pumping 100 litres of oil per minute through hydraulics system will produce 400 RPM Lift auger speed. This system may have remote control as an option.



Receiver

Remote control System

Require the operator to connect the one set of hydraulic hoses to the tractor and lock the hydraulics control valve on, oil circulates through the silo hydraulic system at zero pressure until activated by the remotes, there is a one way valve in the hydraulic line to prevent oil flowing in wrong direction, 12 volts power needs to be connected to tractor to operate electric solenoid's.

RED wire Positive

Black wire Negative

It is advised to remove Receiver from Field Bin once finished for the season, Disconnect the black plug on bottom of Receiver and undo mounting nut.



Transmitter

To operate the remote system,

- 1st Turn the red button clockwise, button will spring out, this powers up the remote transmitter.
- 2nd Push the green button on transmitter, this will power up the receiver, receiver red light
- 3rd When finished operating the bin push the red button in, this turn off power to the receiver and remote transmitter saving batteries.

Control buttons

Line 1, Frame up arrow frame up for transport, arrow down lowering to the working, filling position

Line 2 Arrow left away from centre is roof open, arrow to the centre is roof closed

Line 3 Arrow angled up is choke open,..... Arrow angled down is choke close.



Solenoid Valve Block

Manual Operation

Handles on the solenoid block are in the same sequence,

Right handle, pull towards you is frame up, handle pushed away is frame down.

Middle handle pull toward yourself is roof open, push away is roof close.

Left handle push away to open choke pull handle toward yourself to close choke

**Any query or suggestion's please talk to Neil
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08 95741414**

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