

M MORRIS
MAXIM II

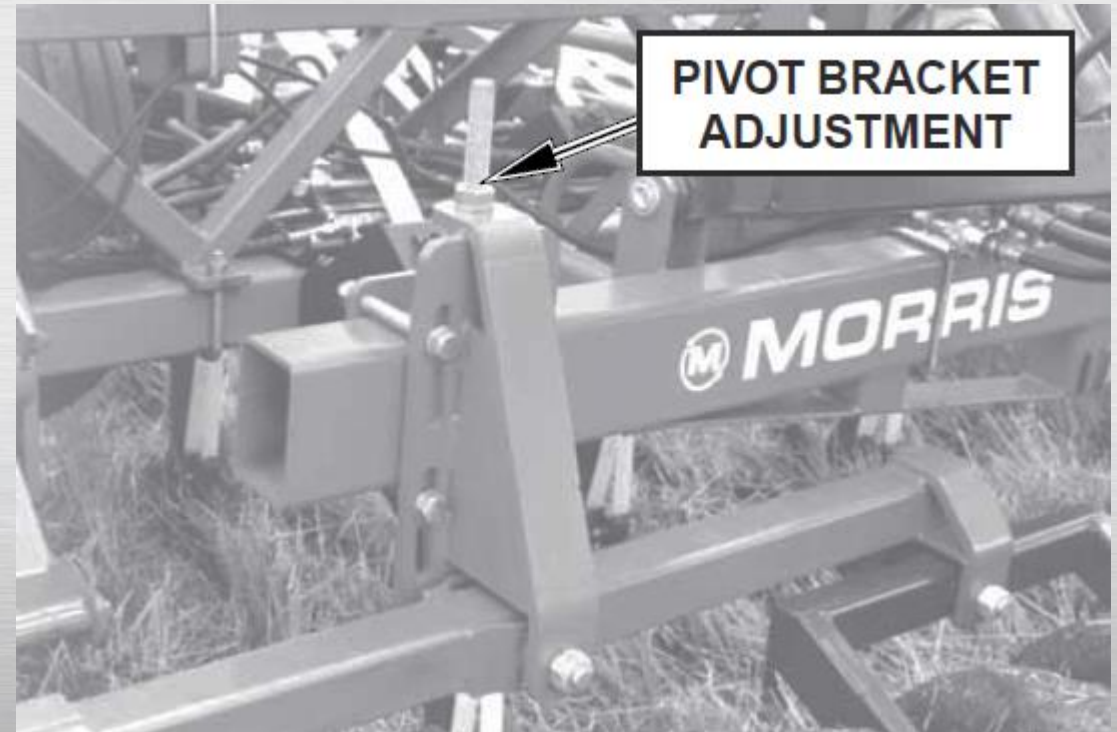


MAXIM II DRILL TRAINING
Module 1 : Frame Levelling

FRAME LEVELLING

Initial Levelling:

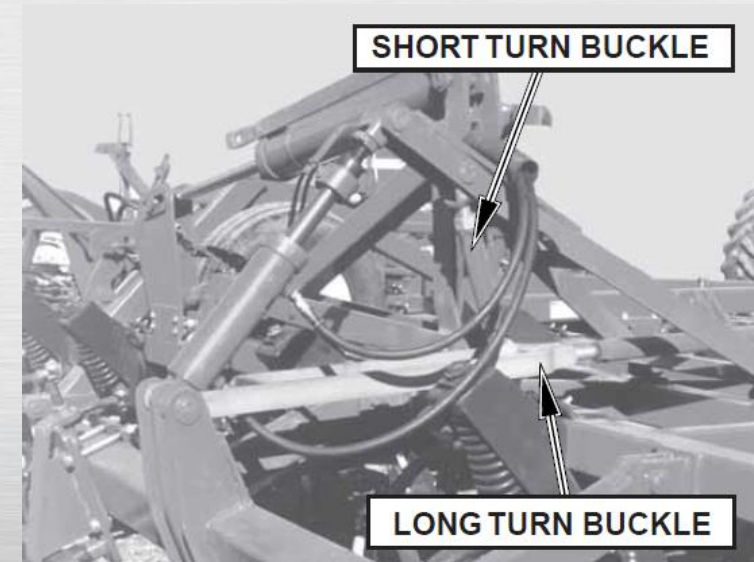
1. Initial Levelling should be done on a flat, level surface, similar to that of a concrete floor.
- Packer pivot brackets must be adjusted to the bottom of the adjusting slot



FRAME LEVELLING

a) Levelling for drills with **Regular Seed Openers**

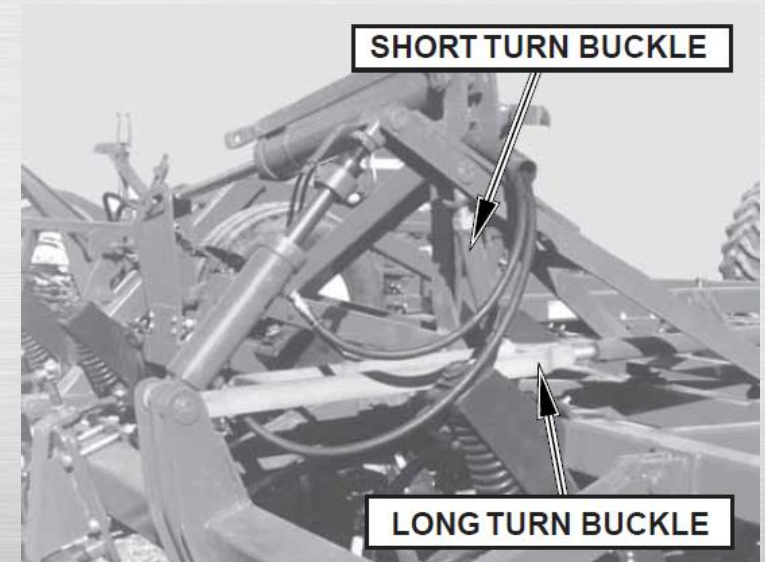
- (Lower Height Setting - Field Clearance Settings)
- Adjust the short turnbuckles length to 19 3/8" from pin centre to pin centre.
- Adjust the long turnbuckles length to 101 1/2" from pin centre to pin centre.
- 55 ft and 60 ft Inner Wing adjust the long turnbuckle length to 100 3/4" from pin centre to pin centre.



FRAME LEVELLING

b) Levelling for drills with **Double Shoot/Knife Openers**

- (Higher Height Setting - Field Clearance Settings)
- Adjust the short turnbuckles length to 18 1/8" from pin centre to pin centre.
- Adjust the long turnbuckles length to 101 1/2" from pin centre to pin centre.
- 55 ft and 60 ft Inner Wing adjust the long turnbuckle length to 100 3/4" from pin centre to pin centre.



FRAME LEVELLING

Initial Levelling: Rephasing Depth Control Cylinders

2. Ensure all stroke control collars are backed off completely.
3. Lower the unit with the depth control circuit until the points are about 1" above the ground.
4. Check the main frame side to side level. Adjust the packer pivot brackets as necessary.
5. Adjust the main frame front to back with long turnbuckle link so the front row of points is about 1" lower than the back row of points. Lengthen the link to lower the front of the frame.
6. Adjust the wing frames side to side and front to back in the same way as the main frame (Step 3 and 4).
7. Adjust the wing frames to the same height as the main frame, by adjusting the short turnbuckle link. Lengthen the link to lower the frame.

FRAME LEVELLING

Final Levelling:

In order for any Air Drill to perform as intended, it must be properly levelled. To properly level an Air Drill, the final levelling must be done in the field with ground conditions being firm and unworked.

If the Air Drill is levelled in preworked, soft conditions, the front may dip when working in harder conditions. This causes the back row of shanks to work shallower than the front and can result in rough, uneven field finish and uneven seed depth which may result in strips appearing in the crop.

FRAME LEVELLING

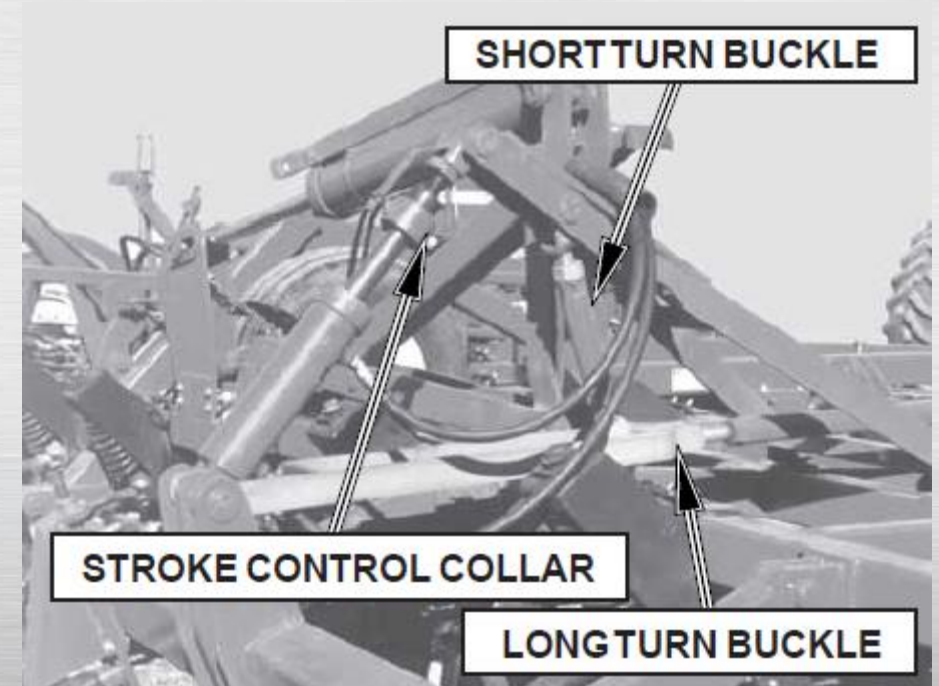
Final Levelling:

Note That Final Levelling is VERY IMPORTANT, so the following steps should be followed exactly as described:

FRAME LEVELLING

Final Levelling Steps

1. Ensure that all stroke control collars are backed off completely.
2. Re-phase hydraulic depth system.
3. Lower the unit with the depth control circuit until the points on the rear row of the main frame are seeding at the desired depth.



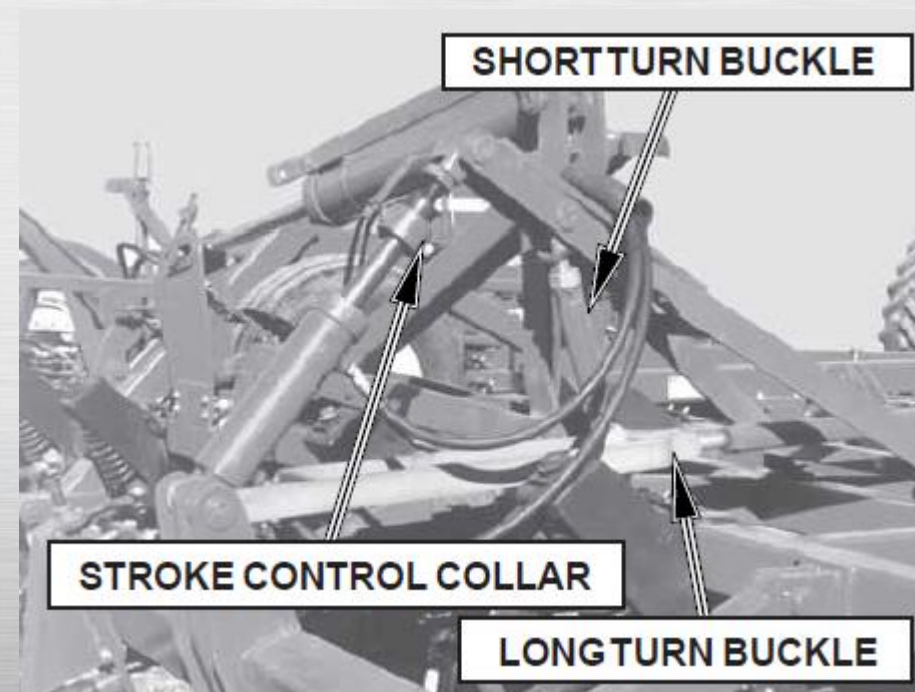
FRAME LEVELLING

Final Levelling Steps

4. When the desired depth is reached and with the unit still in the ground turn down the stroke control collars on all the frames. After the stroke control collars have been set:
5. Rephase hydraulic depth system. Pull the unit 100 feet (30 m) at the desired depth at approximately 2 m.p.h. (3.2 kph). Stop the unit in the ground.

Note: Only do one adjustment at a time.

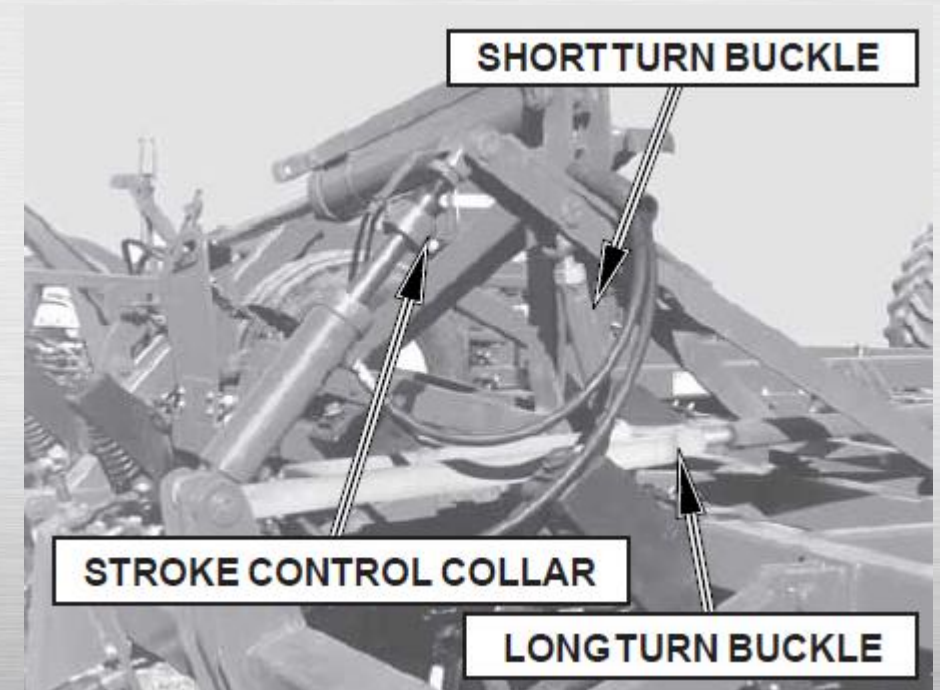
6. Check the seeding depth of the points on the rear row of the wing frames. Adjust short turnbuckle on the wing frames to match the seeding depth of the main frame. Lengthen the link to lower the frame.



FRAME LEVELLING

Fold Clearance Settings

7. Check frame side to side level. Adjust the packer pivot brackets as necessary.
8. Check depth front to back on all frames. Adjust the long turnbuckles. Lengthen link to lower the front of the frame.
9. Pull the unit 100 feet (30 m) at the desired depth travelling at normal operating speed. Check machine level and make any adjustments necessary by repeating steps 5 through 8.



FRAME LEVELLING

Final Levelling:

Note: Any change in the depth setting can now be done by adjusting all the stroke control collars evenly across the whole unit. (See Depth Adjustment)

