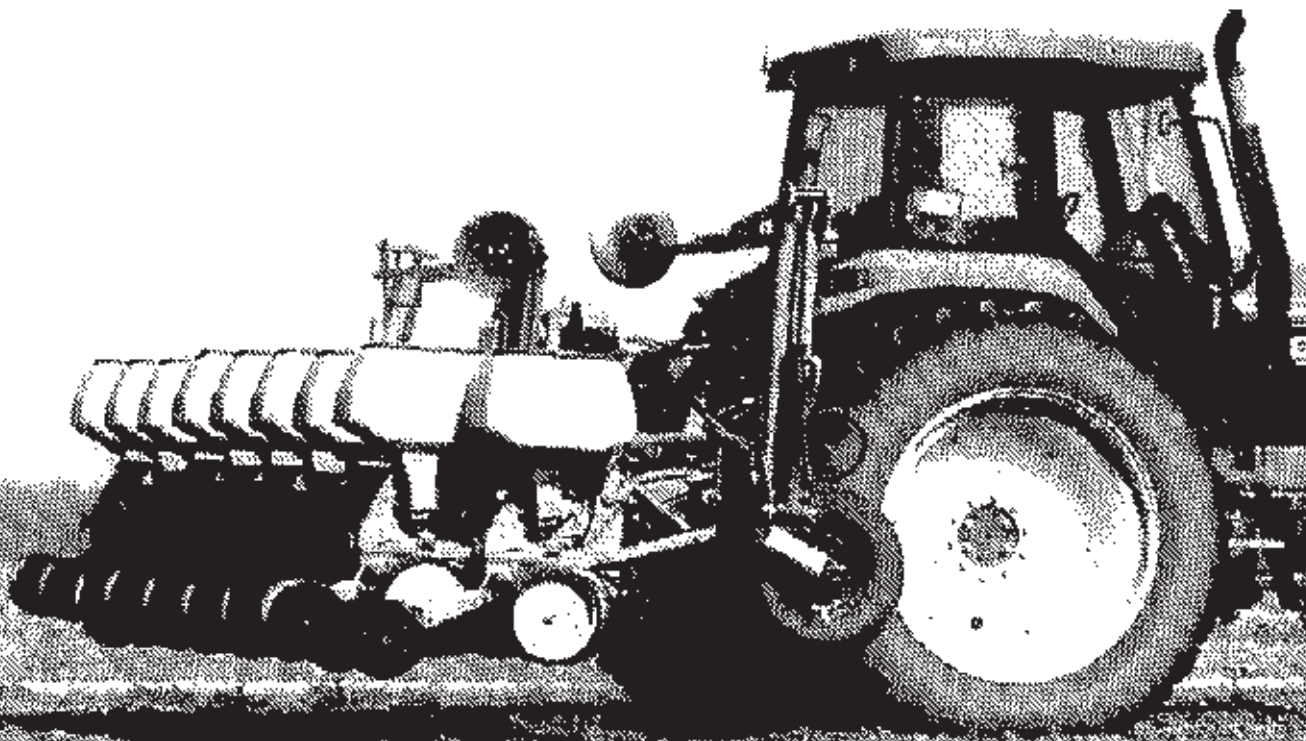


MONOSEM

Operator & Parts Manual Supplement Twin-Row Sync-Row[®] System



Includes Instructions for • Operation • Adjustment • Maintenance

MONOSEM Inc.

1001 Blake St., Edwardsville, KS 66111 USA
Phone 913.438.1700 Fax 913.438.5455
www.monosem-inc.com



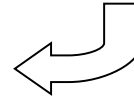
V.12.08

Setting the Twin-Row Stagger

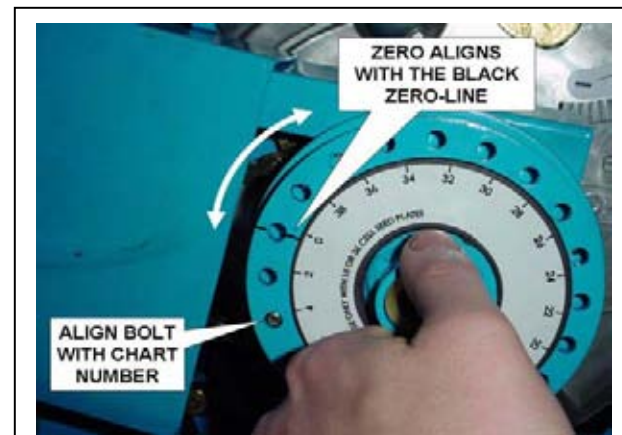
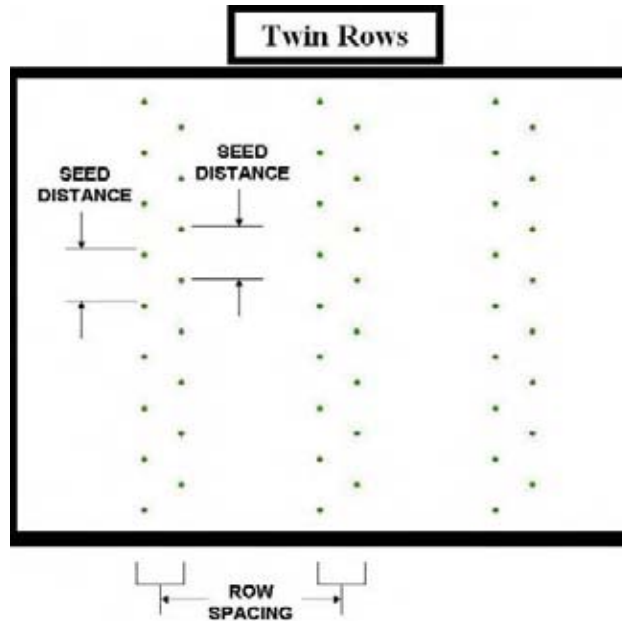
TIMING CHART 30" ROW SPACING
Chart for Adjustable Metering Sprocket

**INSURE THESE VALUES ARE
CORRECT FOR YOUR TWIN
ROW PLANTER**

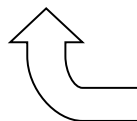
Crop	Corn
Number of Seed Disk Cells (holes)	18
Row Spacing (inch)	30
Left Row Offset (inches)	18



Seed Population (Seeds/Acre)	Seed Distance (inches)	Chart Number
50,000	8 3/8	8
49,000	8 1/2	8
48,000	8 3/4	10
47,000	8 7/8	10
46,000	9 1/8	10
45,000	9 1/4	12
44,000	9 1/2	12
43,000	9 3/4	14
42,000	10	14
41,000	10 1/4	16
40,000	10 1/2	16
39,000	10 3/4	16
38,000	11	18
37,000	11 1/4	18
36,000	11 1/2	0
35,000	12	0
34,000	12 1/4	2
33,000	12 3/4	2
32,000	13	2
31,000	13 1/2	4
30,000	14	4
29,000	14 1/2	6
28,000	15	6
27,000	15 1/2	8
26,000	16	8
25,000	16 3/4	8



DETERMINE SEED POPULATION YOU ARE PLANTING (OR SEED DISTANCE) AND SET THE ADJUSTABLE SPROCKETS TO THE CORRECT CHART NUMBER



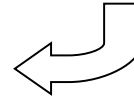
SEE OPERATOR'S MANUAL FOR COMPLETE INSTRUCTIONS

Setting the Twin-Row Stagger

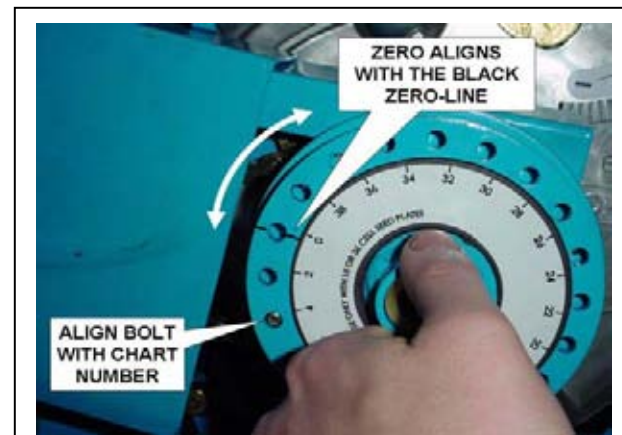
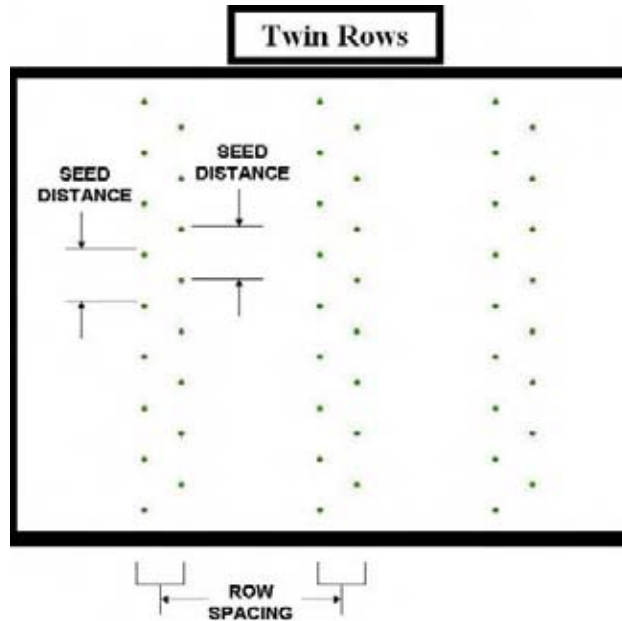
TIMING CHART 36" ROW SPACING
Chart for Adjustable Metering Sprocket

INSURE THESE VALUES ARE CORRECT FOR YOUR TWIN ROW PLANTER

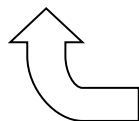
Crop	Corn
Number of Seed Disk Cells (holes)	18
Row Spacing (inch)	36
Left Row Offset (inches)	18



Seed Population (Seeds/Acre)	Seed Distance (inches)	Chart Number
40,000	8 3/4	10
39,000	8 7/8	10
38,000	9 1/8	12
37,000	9 3/8	12
36,000	9 5/8	14
35,000	10	14
34,000	10 1/4	16
33,000	10 1/2	16
32,000	11	18
31,000	11 1/4	18
30,000	11 1/2	0
29,000	12	0
28,000	12 1/2	2
27,000	13	2
26,000	13 1/2	4
25,000	14	4
24,000	14 1/2	6
23,000	15 1/4	6
22,000	15 3/4	8
21,000	16 1/2	8
20,000	17 1/2	10
19,000	18 1/4	10
18,000	19 1/4	12
17,000	20 1/2	12
16,000	21 3/4	14
15,000	23 1/4	14



DETERMINE SEED POPULATION YOU ARE PLANTING (OR SEED DISTANCE) AND SET THE ADJUSTABLE SPROCKETS TO THE CORRECT CHART NUMBER



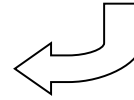
SEE OPERATOR'S MANUAL FOR COMPLETE INSTRUCTIONS

Setting the Twin-Row Stagger

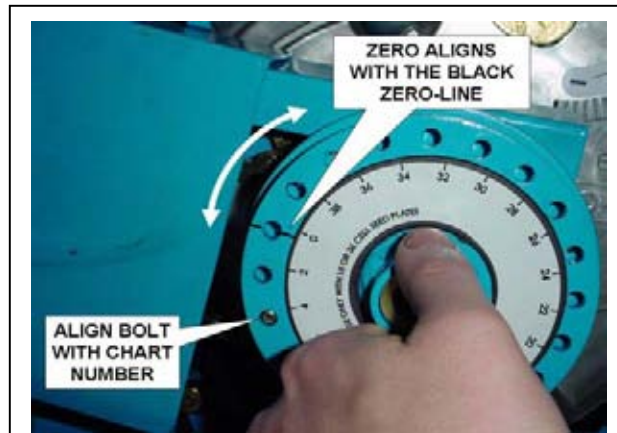
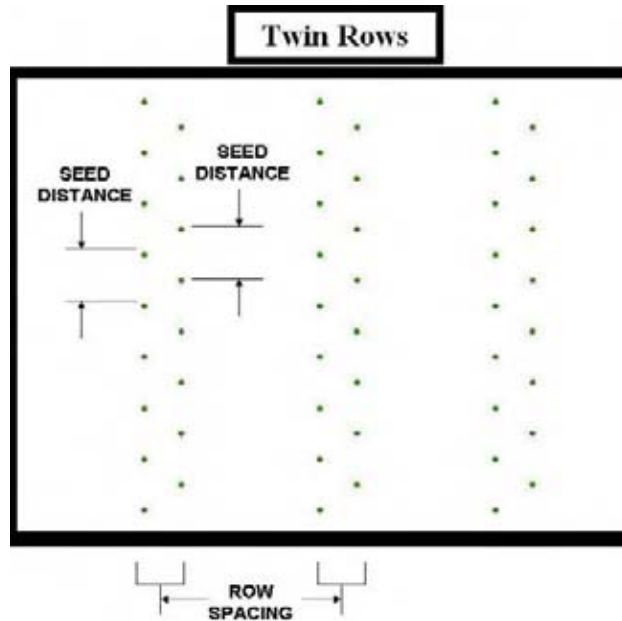
TIMING CHART 38" ROW SPACING
Chart for Adjustable Metering Sprocket

INSURE THESE VALUES ARE CORRECT FOR YOUR TWIN ROW PLANTER

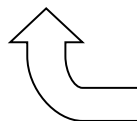
Crop	Corn
Number of Seed Disk Cells (holes)	18
Row Spacing (inch)	38
Left Row Offset (inches)	18



Seed Population (Seeds/Acre)	Seed Distance (inches)	Chart Number
50,000	6 5/8	16
49,000	6 3/4	18
48,000	6 7/8	18
47,000	7	0
46,000	7 1/8	0
45,000	7 3/8	2
44,000	7 1/2	2
43,000	7 3/4	4
42,000	7 3/4	4
41,000	8	6
40,000	8 1/4	6
39,000	8 1/2	8
38,000	8 3/4	10
37,000	9	10
36,000	9 1/4	12
35,000	9 1/2	12
34,000	9 3/4	14
33,000	10	14
32,000	10 1/4	16
31,000	10 3/4	16
30,000	11	18
29,000	11 1/2	18
28,000	11 3/4	0
27,000	12 1/4	0
26,000	12 3/4	2
25,000	13 1/4	4



DETERMINE SEED POPULATION YOU ARE PLANTING (OR SEED DISTANCE) AND SET THE ADJUSTABLE SPROCKETS TO THE CORRECT CHART NUMBER



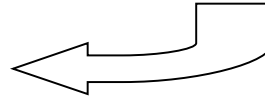
SEE OPERATOR'S MANUAL FOR COMPLETE INSTRUCTIONS

Setting the Twin-Row Stagger

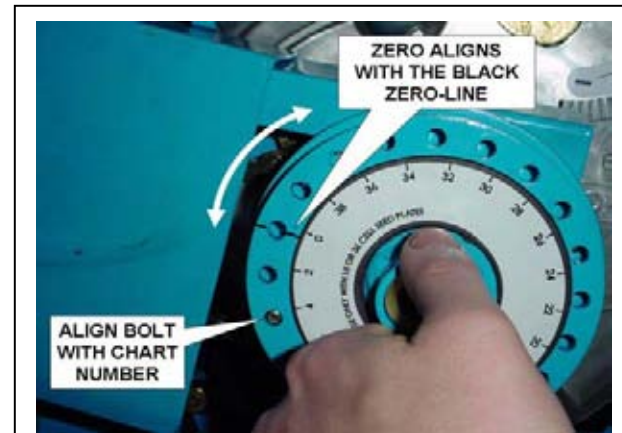
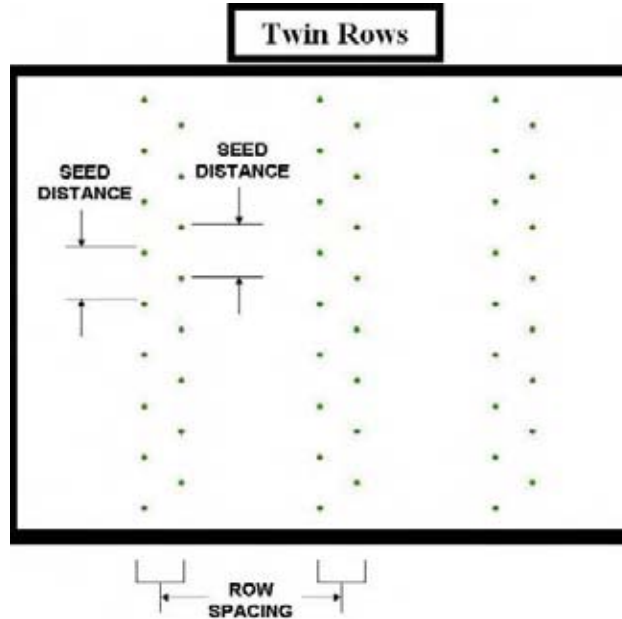
TIMING CHART 40" ROW SPACING
Chart for Adjustable Metering Sprocket

INSURE THESE VALUES ARE CORRECT FOR YOUR TWIN ROW PLANTER

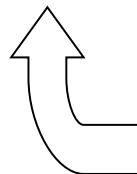
Crop	Corn
Number of Seed Disk Cells (holes)	18
Row Spacing (inch)	40
Left Row Offset (inches)	18



Seed Population (Seeds/Acre)	Seed Distance (inches)	Chart Number
50,000	6 1/4	14
49,000	6 3/8	14
48,000	6 1/2	16
47,000	6 5/8	16
46,000	6 7/8	18
45,000	7	0
44,000	7 1/8	0
43,000	7 1/4	2
42,000	7 1/2	2
41,000	7 3/4	4
40,000	7 3/4	4
39,000	8	6
38,000	8 1/4	6
37,000	8 1/2	8
36,000	8 3/4	10
35,000	9	10
34,000	9 1/4	12
33,000	9 1/2	12
32,000	9 3/4	14
31,000	10	14
30,000	10 1/2	16
29,000	10 3/4	18
28,000	11 1/4	18
27,000	11 1/2	0
26,000	12	0
25,000	12 1/2	2



DETERMINE SEED POPULATION YOU ARE PLANTING (OR SEED DISTANCE) AND SET THE ADJUSTABLE SPROCKETS TO THE CORRECT CHART NUMBER



SEE OPERATOR'S MANUAL FOR COMPLETE INSTRUCTIONS

How To Zero Sync-Row Timing on Monosem Twin Row planters.

Tools needed:

- **7/8 inch end wrench**
- **Black Marker**
- **Solvent (carb cleaner)**
- **Shop Rag**
- **Tools to remove a connector link**

Prepare the planter

- **Remove all seed from meter boxes**
- **Raise the planter to a comfortable working height.**
- **Support planter so that it can be safely worked on**
- **Install 18, 36 or 72 cell plates**
- **Remove Chain from Transmission on ground driven planters or the chain between the hydraulic motor and the hex shaft on Hydraulic drive planters.**

Zeroing the Meters

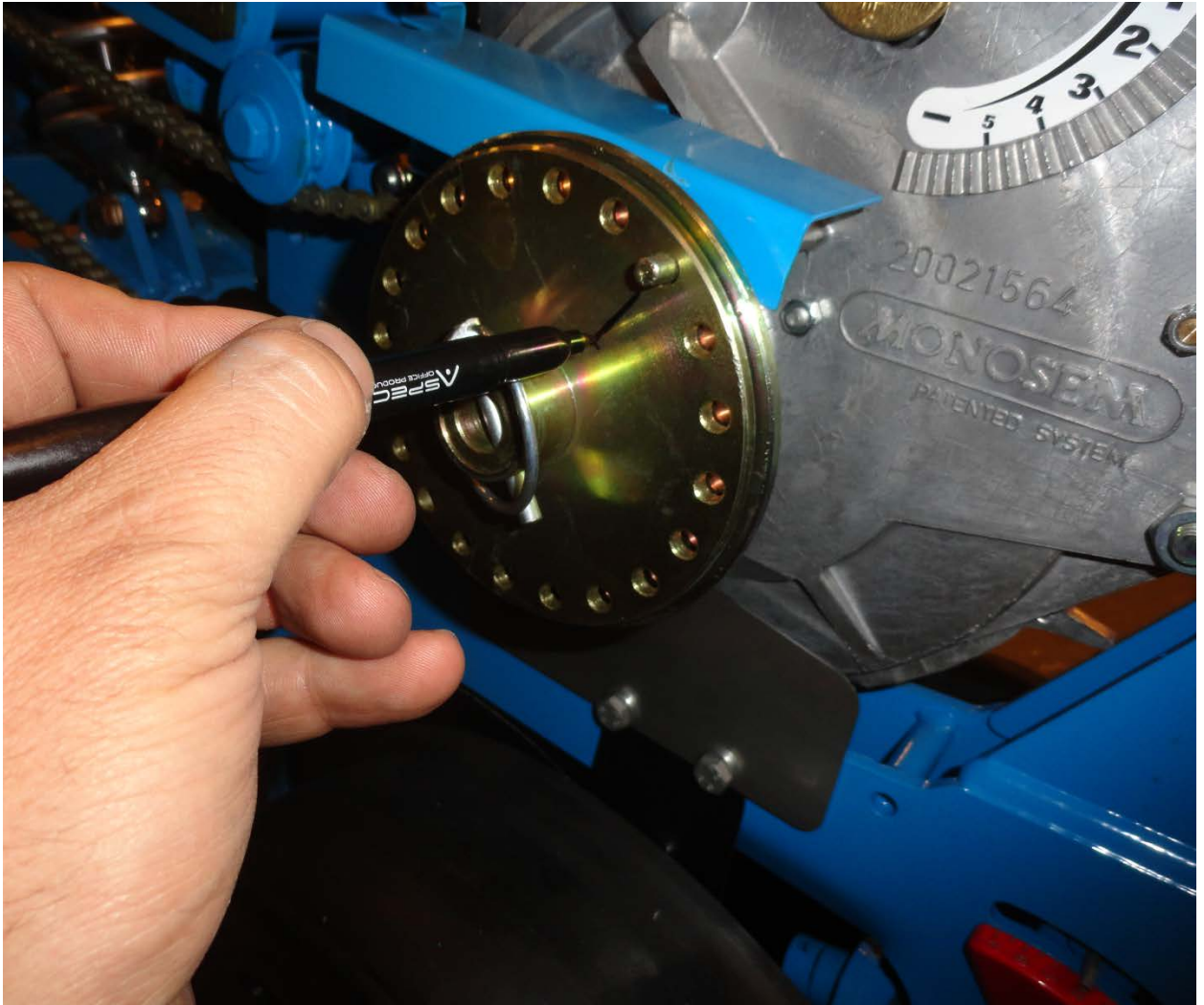
1. **Set sync-row to original zero (Factory marked with a black sharpie line under the magnetic decal)**
2. **Raise control windows on front and back meters on one set of twin rows.**
3. **Place 7/8" wrench on hex shaft and turn clock wise (top of shaft moves toward the tractor) at the same time place a thumb on the seed disc of the front meter through the control window and apply enough pressure to keep the disc from freewheeling and to take up any slack in the meter drive chain.**

4. Turn the shaft until the tip of the seed scraper is flush with the back of the cell in the seed plate.

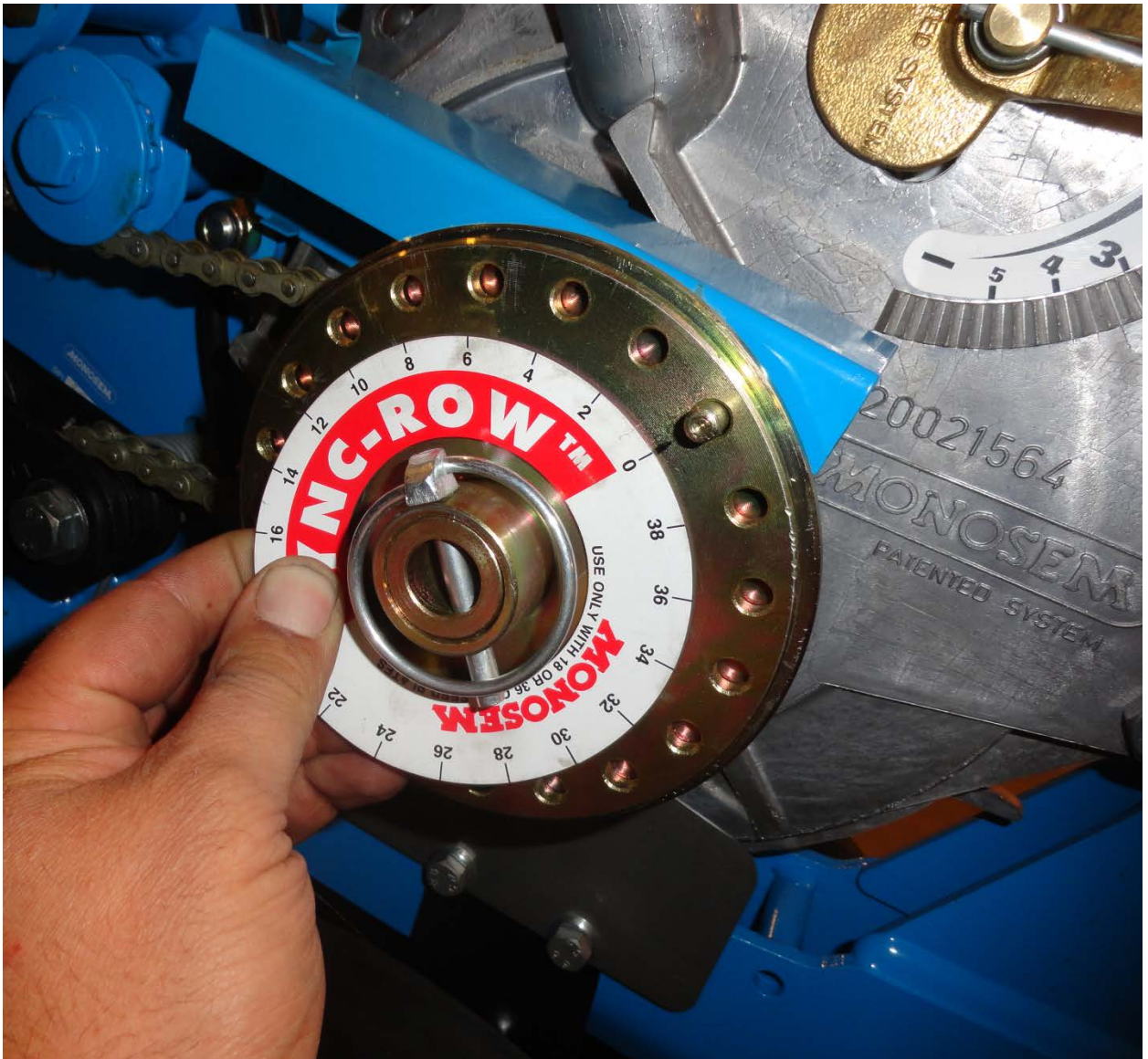


5. Remove the wrench from the hex shaft and finger from the plate (the seed plate may rotate forward slightly).
6. Move to the back meter apply approximately the same amount of pressure to the seed plate in a counterclockwise direction as used on the front meter.
7. Observe location of seed cell, if the back edge of the seed cell is within $\pm 1/16$ " of the tip of the scraper then the meter is still zero'd and does not need adjustment.
8. If the back of the seed cell is more than $\pm 1/16$ " of an inch from the tip of the scraper then the Sync-row will need adjusted.
9. Move to the chain side of the rear meter and adjust the dial selector to the "2" hole.
 - a. Remove lynch pin
 - b. Adjust dial selector to the "2" hole
 - c. Reach through the control window and turn the seed disc backward until the lynch pin holes line up.
 - d. Reinstall lynch pin

10. Apply the same pressure to seed disc through the control window and recheck cell location.
11. Repeat steps 8 & 9 until the back edge of the seed cell is within $\pm 1/16''$ of the tip of the scraper.
12. Repeat steps 3 thru 7 after turning the meter more than halfway around.
13. Use solvent and rag to remove original zero mark
14. Using the black marker place a new zero mark on the dial selector by the hole that has the peg in it. This hole is the new zero.



15. Place the Magnetic decal with the "0" by the new mark.



16. Your meter is now zeroed and ready for adjustment after a seeding population has been determined.