

ND-144 CALIBRATION INSTRUCTIONS

1. DETERMINE DESIRED TRAVEL SPEED. IF TRACTOR SPEED IS UNKNOWN, USE SPEED TRACKER APP ON CELL PHONE
2. DETERMINE DESIRED LBS/AC SEED RATE
3. CHECK PLATE & SEED SIZE CHART TO ENSURE THE CORRECT SEED PLATE IS INSTALLED IN THE SEED BOX, IF PLATES NEED CHANGING REFER TO THE OPERATOR'S MANUAL
 - $\frac{1}{4}$ " PLATE: CLOVER, GRAIN SORGHUM, CANOLA, OTHER SMALL SEEDS
 - $\frac{3}{8}$ " PLATE: SOYBEANS
 - $\frac{1}{2}$ " PLATE: RYE GRASS, PEAS, BEANS, WHEAT AND RYE RATES UNDER 60 LBS/ACRE
 - $\frac{3}{4}$ " PLATE: OATS, MIXES, MEDIUM TO LARGE GRAINS, PEAS, BEANS, WHEAT AND RYE RATES OVER 60 LBS/ACRE
4. CHECK CHART BELOW TO FIND 1 MINUTE OUTPUT BASED ON DESIRED TRAVEL SPEED AND DESIRED SEED RATE, REFER TO QUICK START SETTING GUIDE FOR SUGGESTED PLATE POSITION STARTING POINTS
5. PLACE EMPTY CALIBRATION TROUGH BENEATH SEED TUBES
6. RUN MACHINE IN PLACE FOR 1 MINUTE, WEIGH SEED CAUGHT IN CALIBRATION TRAY WITH SCALE PROVIDED
7. COMPARE AMOUNT OF SEED CAUGHT TO DESIRED SEED RATE. IF LOWER THAN NEEDED, OPEN PLATES SLIGHTLY. IF HIGHER, CLOSE PLATES SLIGHTLY.
8. USE MOTOR CONTROLLER FOR FINE TUNING OF SEED RATE WHEN WITHIN 10% OF DESIRED SEED RATE
9. REPEAT STEPS 5-8 UNTIL DESIRED OUTPUT IS ACHIEVED

SEED DEPTH

1. DETERMINE PROPER DEPTH FOR SEED TO BE PLANTED
2. ADJUST 3 POINT TOPLINK AND GAUGE WHEELS SO THAT TOOLBAR IS LEVEL FROM FRONT TO BACK WHEN LOWERED TO RUNNING POSITION AND FRONT COULTERS ARE $\frac{1}{4}$ " DEEPER THAN SEED DEPTH REQUIRED
3. ADJUST REAR SEED DISK USING PRESS WHEELS SO THAT SEED IS RELEASED AT RIGHT DEPTH AND PRESS WHEELS CLOSE TRENCHES PROPERLY
4. CHECK SEED DEPTH AS GROUND CONDITIONS CHANGE AND ADJUST MACHINE ACCORDINGLY

ND-144 SEED RATE CHART

THIS CHART CORRELATES SPEED AND LBS/AC TO AN AMOUNT TO BE CAUGHT AND MEASURED IN 1 MIN FOR CALIBRATION OF THIS MACHINE
 RATE IS HOPPER, DO NOT ADD CALIBRATION WEIGHTS FOR BOTH HOPPERS TOGETHER

MPH	LBS PER ACRE																
	3	5	10	20	30	40	50	60	70	80	90	100	120	140	160	180	200
1	0.04	0.06	0.12	0.24	0.36	0.48	0.61	0.73	0.85	0.97	1.09	1.21	1.45	1.70	1.94	2.18	2.42
1.5	0.05	0.09	0.18	0.36	0.55	0.73	0.91	1.09	1.27	1.45	1.64	1.82	2.18	2.55	2.91	3.27	3.64
2	0.07	0.12	0.24	0.48	0.73	0.97	1.21	1.45	1.70	1.94	2.18	2.42	2.91	3.39	3.88	4.36	4.85
2.5	0.09	0.15	0.30	0.61	0.91	1.21	1.52	1.82	2.12	2.42	2.73	3.03	3.64	4.24	4.85	5.45	6.06
3	0.11	0.18	0.36	0.73	1.09	1.45	1.82	2.18	2.55	2.91	3.27	3.64	4.36	5.09	5.82	6.54	7.27
3.5	0.13	0.21	0.42	0.85	1.27	1.70	2.12	2.55	2.97	3.39	3.82	4.24	5.09	5.94	6.79	7.64	8.48
4	0.15	0.24	0.48	0.97	1.45	1.94	2.42	2.91	3.39	3.88	4.36	4.85	5.82	6.79	7.76	8.73	9.70
4.5	0.16	0.27	0.55	1.09	1.64	2.18	2.73	3.27	3.82	4.36	4.91	5.45	6.54	7.64	8.73	9.82	10.91
5	0.18	0.30	0.61	1.21	1.82	2.42	3.03	3.64	4.24	4.85	5.45	6.06	7.27	8.48	9.70	10.91	12.12
5.5	0.20	0.33	0.67	1.33	2.00	2.67	3.33	4.00	4.67	5.33	6.00	6.67	8.00	9.33	10.67	12.00	13.33
6	0.22	0.36	0.73	1.45	2.18	2.91	3.64	4.36	5.09	5.82	6.54	7.27	8.73	10.18	11.64	13.09	14.54
6.5	0.24	0.39	0.79	1.58	2.36	3.15	3.94	4.73	5.51	6.30	7.09	7.88	9.45	11.03	12.60	14.18	15.76
7	0.25	0.42	0.85	1.70	2.55	3.39	4.24	5.09	5.94	6.79	7.64	8.48	10.18	11.88	13.57	15.27	16.97
7.5	0.27	0.45	0.91	1.82	2.73	3.64	4.55	5.45	6.36	7.27	8.18	9.09	10.91	12.73	14.54	16.36	18.18
8	0.29	0.48	0.97	1.94	2.91	3.88	4.85	5.82	6.79	7.76	8.73	9.70	11.64	13.57	15.51	17.45	19.39
8.5	0.31	0.52	1.03	2.06	3.09	4.12	5.15	6.18	7.21	8.24	9.27	10.30	12.36	14.42	16.48	18.54	20.60
9	0.33	0.55	1.09	2.18	3.27	4.36	5.45	6.54	7.64	8.73	9.82	10.91	13.09	15.27	17.45	19.63	21.82
9.5	0.35	0.58	1.15	2.30	3.45	4.61	5.76	6.91	8.06	9.21	10.36	11.51	13.82	16.12	18.42	20.73	23.03
10	0.36	0.61	1.21	2.42	3.64	4.85	6.06	7.27	8.48	9.70	10.91	12.12	14.54	16.97	19.39	21.82	24.24

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