DELIMBE

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INSTRUCTIONS FOR ASSEMBLY AND USE

SEED DRILL
SMALL SEED DISPENSER
ELECTRIC PNEUMATIC SEED DRILL
DELIMBE T17

Thank you for choosing this air seeder, which we have always striven for quality to offer you a first-class product. In order to make the most of your DELIMBE T17 seeder, we invite you to carefully read all the information mentioned in this manual.

TECHNICAL CHARACTERISTICS

- Painted steel frame in oven-baked paint.
- Plastic tank capacity: 250 – 400 – 600 – 800 liters.
- Retracted ramp from 3 to 6 meters.
- Distributor dimensions:
  - **250 liters**: Width 1 m 30 – Depth 1 m 10 – Height 1 m 25.
  - **400 liters**: Width 1 m 30 – Depth 1 m 10 – Height 1 m 30.
  - **600 liters**: Width 1 m 50 – Depth 1 m 10 – Height 1 m 30.
  - **800 liters**: Width 1 m 60 – Depth 1 m 10 – Height 1 m 40.
- The T17 is a pneumatic seed drill.
- The seeds are pulsed into the pipes by a flow of air generated by a turbine driven by an electric or hydraulic motor.
- Seed distribution is done with a spline driven by an electric motor.
- The supply voltage of the electric motor is 12 Volts and the supply power is 100 Watts.

ELECTRICAL VERSION:

- The standard control box has 3 switches:

1. A ventilation start-up switch (ventilation must always remain on while the unit is in use)
2. The 2nd switch is used to start and stop seed distribution at the end of the field.
3. The 3rd switch, with a scale from 0 to 30, is used to adjust the seed drill flow.

HYDRAULIC VERSION:

- Connect the small hose to the oil inlet at the front of the tractor, if there is one, if not on a socket in a rear distributor of the tractor.
- Connect the large hose to the front free return if there is one on the rear free return.
- To power the hydraulic motor it is necessary to have an oil supply coming from a distributor of the tractor and a free return (bridge return).
- The flow rate required to power the engine is approximately 20 litres/minute.
- The hydraulic motor of the Delimbe T17 is equipped with a pressure gauge and the displayed pressure must be 40 bar.
- When starting the hydraulic engine, it is imperative to have a gradual start.
- The oil in the delimbe motor must arrive gradually.
- With the tray off, the engine should start running gradually until it stabilizes at 40 bar.
- Rotation speed is approximately 3200 revolutions per minute.

INSTALLATION – MOUNTING

- Attach the Delimbe T17 to the front tractor lift.
- Set the 3rd point and adjust it so that the seed drill is level in all directions.
- Connect the electrical receptacle to the tractor base (3-pin power receptacle).
- In electric version:
    - Make sure that no one is in the ramp manoeuvring field and activate the switch.
    - Hold the switch while the ramp is open and release it after opening.
- In hydraulic version:
    - Connect the incoming hose to the distributor (incoming)
    - Connect the return hose (the larger one) to the tractor return.
    - Unfold the ramps.
    - Manually remove the ramp hold axis and open the ramp manually (make sure no one is in the ramp manoeuvring field)

GETTING STARTED

- Check that there are no foreign objects in the bottom of the tank before filling.
- Check before filling that the distribution spline is well suited to the type of seed to be sown (see adjustment section).
- Fill the tank with seed.
- Adjust the seed drill using the adjustment panel.
- Perform a calibration.
- To perform a calibration, remove the pipe holder by unscrewing the 4 small butterflies above the pipe outlet.
- Remove the assembly by unhooking the hose holder with all hoses.
- Hang up the funnel cone (option) attached to the side of the seeder.
- Refer to Setting and rotate for one minute.
- When complete, remove the funnel and replace the hose holder.

SAFETY PRECAUTIONS

- After the DELIMBE T17 is fixed, check the rigidity of the assembly and use all the fixing points on the DELIMBE chassis.

- To prevent possible accidents, wear respiratory protection when filling the hopper and when using the device, as well as clothing adapted to the chemicals.

- **Before any intervention disconnect the appliance: disconnect the electrical connections and the hydraulic connections.**

- **Keep everyone away (at least 10m) during work. While protected, do not approach the rotating disc.**

- **The DELIMBE SMALL SEED DRILL T17 has been designed to be used at the front of a tractor. For installation cases that deviate from the planned conditions, consult the manufacturer.**

ADJUSTMENT OF THE DEBIT

- The flow is made by a rotor electronically regulated by a box in the cabin.
- A scale from 0 to 30 allows adjustment of the flow rate of the device.
- An indicator light indicates the on and off flow rate.
- A yellow and black butterfly attached to the end of the groove indicates that the seed drill is rotating.

CALCULATION OF THE DEBIT

- An adjustment chart is provided with the unit.
- The calculation method is:
  WORKING WIDTH X SPEED OF ADVANCE X DOSE/HECTARE.
- Before planting, due to the variety of product sizes, perform a per-minute calibration. After calculating the flow/hour, divide it by 60 minutes and thus check the flow minute before departure.
- Since DELIMBE T17 is a flow device controlled by an electric motor, the flow must be calculated per hour. Working width multiplied by advancing speed = area sown in one hour.
- Take the area sown in one hour and multiply by the dose/hectare. Then take the adjustment table, regardless of the number of outputs the hour flow remains the same.

EXAMPLE OF ADJUSTMENT

- **Example n°1:** For a 3-metre rapeseed seeding at 7 km/hour and for 2.5 kg/hectare:
  Calculation: 3 meters x 7 km/hour = 21 – 2.1 ha/hour x 2.5 kg/ha = 5.25 kg.

➔ **Take the white spline – set to Table n°6/7 – set to n°6/7 on the cab drill scale.**

- **Example n°2:** For a 4-metre mustard seedling at 10 km/h and for 9 kg/hectare:
  Calculation: 4 meters x 10 km/hour = 40 – 4 ha/hour x 9 kg/ha = 36 kg.

➔ **Take the green spline – set to Table n°15 – set to n°15 on the cab drill scale.**

- **Example n°3:** For a phacelia seedling in 6 meters at 12 km/hour and for 8 kg/hectare:
  Calculation: 6 meters x 12 km/hour = 72 – 7.2 ha/hour x 8 kg/ha = 57.6 kg.

➔ **Take the green spline – set to Table n°25 – set to n°25 on the cab drill scale.**

- **Example n°4:** For rye seeding in 4 meters at 7 km/hour and for 25 kg/hectare:
  Calculation: 4 meters x 7 km/hour = 28 – 2.8 ha/hour x 25 kg/ha = 70 kg.

➔ **Take the yellow spline – set to Table n°26 – set to n°26 on the cab drill scale.**

- **Example n°5:** For a ray grass seedling in 3 meters at 6 km/hour and for 15 kg/hectare:
  Calculation: 3 meters x 6 km/hour = 18 – 1.8 ha/hour x 15 kg/ha = 27 kg.

➔ **Take the red spline – set to Table n°9 – set to n°9 on the cab drill scale.**

- **Example n°6**: For field seeding in 4 meters at 7 km/h and for 18 kg/hectare:
  Calculation: 4 meters x 7 km/hour = 28 – 2.8 ha/hour x 18 kg/ha = 50.4 kg.

➔ **Take the red spline – set to Table n°9/10 – set to n°9/10 on the cab drill scale.**

THE DIFFERENT KIND OF ROTORS

	Very small white rotor for very fine seeds (flow rate <3kg/ha)
	Small green rotor for mustard, alfalfa, clover, rapeseed, phacele, insecticides…
	Medium yellow rotor for radish, buckwheat, turnip, incarnate, rye, cereals…
	Large red rotor for rye grass, fecal, oats, wheat, vetch…

DELIMBE T17 - ADJUSTMENT TABLE

DEBIT CALCULATION: the adjustment table is given in flow/hour: selected working width x working tool speed x desired dose/hectare.

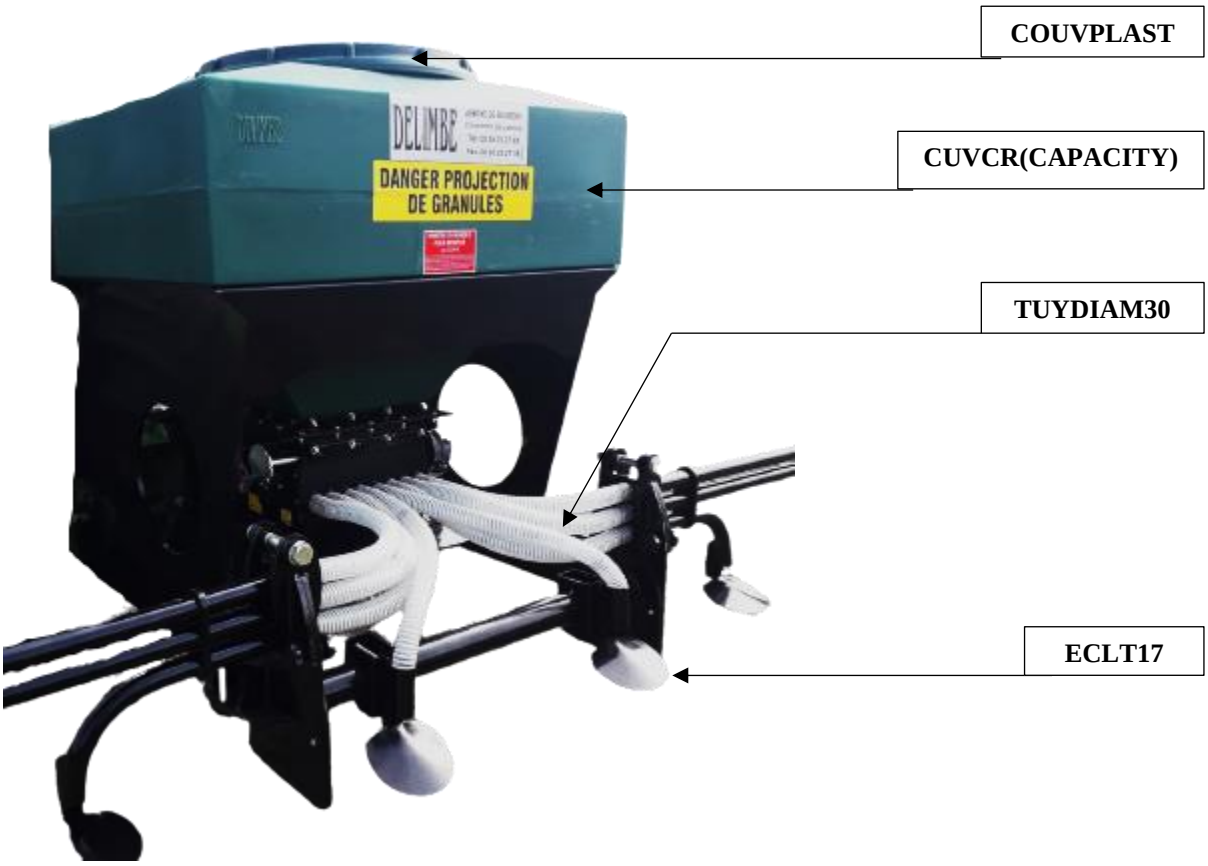
WHITE ROTOR VERY SMALL FLOWS		GREEN ROTOR SMALL FLOWS		YELLOW ROTOR MEDIUM FLOWS	
N°4	3.71 KG/H	**N°4**	5.31 KG/H	**N°4**	6.64 KG/H
N°5	4.46 KG/H	**N°5**	7.44 KG/H	**N°5**	7.08 KG/H
N°6	5.10 KG/H	**N°6**	8.50 KG/H	**N°6**	7.97 KG/H
N°7	5.83 KG/H	**N°7**	9.72 KG/H	**N°7**	9.74 KG/H
N°8	7.17 KG/H	**N°8**	11.96 KG/H	**N°8**	11.51 KG/H
N°9	8.56 KG/H	**N°9**	14.27 KG/H	**N°9**	13.28 KG/H
N°10	10.45 KG/H	**N°10**	17.43 KG/H	**N°10**	15.94 KG/H
N°11	12.40 KG/H	**N°11**	20.40 KG/H	**N°11**	18.60 KG/H
N°12	14.39 KG/H	**N°12**	23.99 KG/H	**N°12**	22.14 KG/H
N°13	17.67 KG/H	**N°13**	29.44 KG/H	**N°13**	25.68 KG/H
N°14	19.72 KG/H	**N°14**	32.87 KG/H	**N°14**	29.22 KG/H
N°15	22.67 KG/H	**N°15**	37.79 KG/H	**N°15**	33.65 KG/H
N°16	23.91 KG/H	**N°16**	39.85 KG/H	**N°16**	37.19 KG/H
N°17	26.37 KG/H	**N°17**	43.93 KG/H	**N°17**	40.73 KG/H
N°18	28.63 KG/H	**N°18**	47.73 KG/H	**N°18**	45.16 KG/H
N°19	30.26 KG/H	**N°19**	50.44 KG/H	**N°19**	48.70 KG/H
N°20	31.20 KG/H	**N°20**	52.02 KG/H	**N°20**	52.24 KG/H
N°21	31.87 KG/H	**N°21**	53.13 KG/H	**N°21**	55.79 KG/H
N°22	32.38 KG/H	**N°22**	53.97 KG/H	**N°22**	58.44 KG/H
N°23	32.73 KG/H	**N°23**	54.55 KG/H	**N°23**	61.10 KG/H
N°24	33.87 KG/H	**N°24**	56.45 KG/H	**N°24**	63.75 KG/H
N°25	34.53 KG/H	**N°25**	57.56 KG/H	**N°25**	68.18 KG/H
N°26	35.58 KG/H	**N°26**	59.22 KG/H	**N°26**	70.84 KG/H
N°27	36.19 KG/H	**N°27**	60.32 KG/H	**N°27**	76.15 KG/H
N°28	38.25 KG/H	**N°28**	63.76 KG/H	**N°28**	79.69 KG/H
N°29	38.52 KG/H	**N°29**	64.20 KG/H	**N°29**	84.12 KG/H
N°30	39.51 KG/H	**N°30**	65.86 KG/H	**N°30**	89.43G/H

RED ROTOR BIG FLOWS – RYE GRASS	
N°4	8.20 KG/H
N°5	12.95 KG/H
N°6	16.10 KG/H
N°7	19.90 KG/H
N°8	23.31 KG/H
N°9	26.00 KG/H
N°10	29.09 KG/H
N°11	34.20 KG/H
N°12	36.50 KG/H
N°13	39.35 KG/H
N°14	42.11 KG/H
N°15	44.91 KG/H
N°16	46.82 KG/H
N°17	48.01 KG/H
N°18	50.30 KG/H
N°19	51.36 KG/H
N°20	52.52 KG/H
N°21	53.46 KG/H
N°22	56.55 KG/H
N°23	58.05 KG/H
N°24	60.29 KG/H
N°25	61.10 KG/H
N°26	62.10 KG/H
N°27	63.80 KG/H
N°28	65.10 KG/H
N°29	66.80 KG/H
N°30	67.10KG/H

RED ROTOR BIG FLOWS – CEREALS	
N°4	18.00 KG/H
N°5	25.90 KG/H
N°6	31.66 KG/H
N°7	37.40 KG/H
N°8	43.17 KG/H
N°9	48.92 KG/H
N°10	54.94 KG/H
N°11	60.90 KG/H
N°12	66.71 KG/H
N°13	71.77 KG/H
N°14	79.78 KG/H
N°15	86.92 KG/H
N°16	98.29 KG/H
N°17	104.01 KG/H
N°18	109.76 KG/H
N°19	114.67 KG/H
N°20	119.50 KG/H
N°21	126.18 KG/H
N°22	132.91 KG/H
N°23	138.86 KG/H
N°24	145.82 KG/H
N°25	155.84 KG/H
N°26	166.19 KG/H
N°27	172.71 KG/H
N°28	179.29 KG/H
N°29	184.84 KG/H
N°30	190.38 KG/H

For more flow it is possible to increase the speed of rotation of the distribution motor (contact us).

SPARE PARTS OF DELIMBE T17 FRONTAL SEEDLINGS



REFERENCE	NAME
COUVPLAST80L120	CAP
CUVCR(CAPACITY)	TANK (specify the capacity at the end of the reference)
TUYDIAM30T17	HOSE COIL 25 M DIAMETER 30
ECLT17	SPREADER PLATE
MRZD1531A006	ELECTRIC DISTRIBUTION MOTOR
MOTEURHYDRAULIQUE	DANFOSS HYDRAULIC MOTOR
CAN(DEBIT)T17	ROTOR (specify flow at end of reference)
BOITIERCDET17	CONTROL BOX
DPACAPTEUR	DPA SENSOR BOX
DPAISO	DPA BOX ISO PLUG 7 STUDS
DPAANTGPS	DPA BOX WITH GPS ANTENNA AND LIMIT SWITCH
JOINTMOTT17	HYDRAULIC ENGINE SEAL
PALPLASTRAPT17	PLASTIC BEARING + HATCH
POTENRENFORCE	POTENTIOMETER STRENGTHENS 1230A
DRAPEAU	BUTTERFLY FLAG

REPLACEMENT OF DISTRIBUTION ROTOR OFF DELIMBE T17

Correct positioning of distribution rotor, bibs and spring.

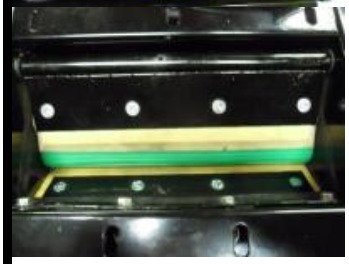
1. Release the spring : Original position bottom spring: 6H00
   Original position top spring: 12H00

2. The spring releases the pressure of the 2 rubber flaps on the rotor.

3. Unscrew the 2 knurled knobs holding the grease bearing

The two knurled buttons, the rotor grease bearing and its 2 washers

Pull the spline from the distribution compartment



The positioning of the bibs is essential for the proper distribution of the seeds.
Replace the rotor to match the adjustment boards, reposition the grease bearing and washers, knurled knobs and finally the spring.

DECLARATION CE DE CONFORMITE

Le Constructeur : DELIMBE - F-27340 PONT DE L'ARCHE

Déclare que le matériel neuf : SEMOIR PNEUMATIQUE

Est conforme aux exigences essentielles de sécurité mentionnées dans la Directive européenne 2006/42 CE par application des normes harmonisées

Fait à PONT DE L'ARCHE