DELIMBE

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MICROGRANULATOR AND SMALL SEED DRILL ELECTRIC PNEUMATIC SEED DRILL DELIMBE T15

We thank you for your choice on the DELIMBE T15 small seeds drill, our company tried to answer to its customers demands in the best possible way, to insure a good use of the DELIMBE T15 please follow these technical advices.

TECHNICAL NOTICE

TECHNICAL DESCRIPTION:

Chassis epoxy painting.
Plastic tank capacity: 80 or 120 litres.
Dimensions of the distributor :

- **80 liters**: 600mm large, 700mm high, 600mm long, weight 50kgs.
- **120 liters**: 600mm large, 800mm high, 600mm long, weight 55kgs.

Number of pipe outlets: from 1 to 10 outlets.
Adjustable flow rate by electrically controlled spline speed.
The blower works with an electric 12 volts motor.
Power of the ventilation motor: 170 Watts.
Ventilation turbine driven by an electric motor.
Distribution engine power: 100 Watts.

FITTING :

Fit the T15 on the tool chassis, it should be placed on the stubble middle.

Check the solidity of your installation. Position the machine so that there is no danger for the operator being injured while it is being filled.

When fitting the machine on the tool it is essential to install a guard rail.

Install a platform with a handrail and access stairs to allow the hopper to be filled in complete safety.

Use perforated anti-slip metal.

The spreader plates should be fitted so that the seeds fall just behind the ploughshare of the stubble or the discs and before the roll between 30 and 70cm.The spreader plates spread the seeds at a distance between 50 to 1.40m. Small seeds should be covered by the roll of the stubble. It is necessary to have a slope down for the hoses and avoid reverse slope.
Before working, check that the machine is not electronically connected.

SECURITY RULES :

After fitting the T15 on the tool, check the different points of fixation, all the fixation holes of the chassis should be used to insure a good stability of the T15 on the tool. Depending on the highness of the fitting you should provide a “passerelle” to access easily to the T15 with no slipping steps large from 28 to 35cm and high from 50 to 55cm from the ground.
To prevent any respiratory problems, please fill and empty the tank with adapted protection (mask…)
Before any manual work on the machine plug it off.

CONNECTION :

- The switch (ref. INTER2B on technical doc): for starting the blower system.
- The switch (ref. INTER2B on technical doc): for starting the rotor.
- The handle button “BOUTPOT” graduated from 0 to 30 to set the electric flow.
- Supply protected connection of 30 amperes is necessary.
- **Connect the red thread with the positive plug + (brown thread) and the blue one with the negative plug -. BE CAREFUL IN CASE OF POLARITY INVERSION YOU RISK TO GRILL THE DEBIT ADJUSTMENT POTENTIOMETER WHICH WOULD THEN BE DEFINITIVELY OUT OF SERVICE.**
- **Check the blower rolls in the right direction (arrow direction).**

USE :

The DELIMBE T15 is designed for use on the rear of a tractor. For installation cases deviating from the requirements, consult the manufacturer. It can also be used on any planter, seeder or cultivator, it is important to keep a descent slope in the pipes, avoid backslopes…

The microgranulates or seeds are ventilated by a turbine disc that rotates at high speed.

- Starting and stopping the device is done with switch and indicator light.
- The flow adjustment is done by turning the knob 1512 on the cabin control box.
- Ventilation is done with switch.

At the end of the field, manually stop the distribution with the cabin switch but allow the ventilation to rotate.

ADJUSTMENT OF THE DEBIT :

- The flow adjustment is done with a separate groove for each descent hose, driven by an electric motor connected to an electronic box in the cabin allowing also a setting of 3 to 278kg/hour (for a higher flow consult us).
- The rotor is regulated electronically by a cab. A scale from 0 to 30 allows the adjustment of the flow of the device. An indicator light indicates the on and off flow rate.
- 4 fluting rotors exist for the T15 and are provided for this purpose and 3 are available as an option, the white (very small flow), the yellow (medium flow), the red (large flow) and the green that is included in the original device.
- Since the device is new, before filling the hopper, check that the motor is running in the correct direction (arrow direction). A visual marker (black and yellow butterfly) is installed at the end of the rotor shaft.
- Since the vessel is under pressure, use the closed cover apparatus.

DRAINING THE TANK : A door at the end of the rotor is provided to drain.

STORAGE : Take cover.

DEBIT CALCULATION :

The setting table is given for information in flow/hour:
WORKING WIDTH X TILLAGE TOOL SPEED 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 check the flow/minute before departure. After spreading a distance of a few tens of meters, check that the spreading is correct in width and density of seedlings.

SETTING:

Since the T15 DELIMBE is an electrical appliance, the flow must be calculated per hour. Working width multiplied by speed of advance equal area sown in one hour. Take the area sown in one hour and multiply by the dose/hectare. Then take the adjustment chart.

The device DELIMBE T15 can be equipped, either in small seed seeder green, yellow or red rotor, or in Microgranulator white or green rotor or for Ray-grass in red rotor, the color of the rotor is visible at the end of the rotor or by the hopper.

T15 equipped with MICROGRANULATOR – green rotor:
Example 1 : for a 0.95 density microgranulate seedling, small green rotor setting. For a 6-row seeder, with seeding elements spaced at 80cm, so working width 4.80m with a seeding speed of 4 km/h. 4.80m x 4km/h = 1.92ha/hour. Desired dose per hectare: 10kg.
Sown area: 1.92ha x 10kg/ha = 19.2 kg/hour. **Take the table, setting 19.2 kg = number 11.**

Example 2 : for a 0.95 density microgranulate seedling, small green rotor setting. For an 8-row seeder, with seeding elements spaced at 80cm, so working width 6.40m with a seeding speed of 5 km/h: 6.40m x 5km/h = 3.20ha/hour. Desired dose per hectare: 9kg.
Sown area: 3.20ha x 9kg/ha = 28.8 kg/hour. **Take the table, setting 28.8 kg = number 14.**

Example 3 : for a 0.95 density microgranulate seedling, small green rotor setting. For a seeder 8 rows of sunflower with seeding elements spaced at 45cm, working width 3.60m with a seeding speed of 5 km/h. 3.60m x 5km/h = 1.80ha/hour. Desired dose per hectare: 9kg.
Sown area: 1.80ha x 9kg/ha = 16.2 kg/hour. **Take the table, setting 16.2 kg = number 10.**

T15 equipped with SMALL SEED DRILL – yellow rotor:
Example 4 : for small seed seeding density 0.65, setting small green rotor. For sowing mustard on a 5metre wide cultivator, at a speed of 7km/h for sowing at 10kg/hectare. 5meters wide x 7,000/hour = 35,000 square meters/hour. Desired dose per hectare: 10kg.
Sown area: 3.5ha x 10kg = 35kg/hour. **Take the adjustment table at 35kg/hour in 6 outlets, or the number 15 on the adjustment wheel.**

Example 5 : for small seed seeding density 0.65, setting small yellow rotor. For sowing mustard on a cultivator 6metres wide, at a speed of 8km/h for sowing at 12kg/hectare. 6meters wide x 8,000/hour = 48,000 square meters/hour. Desired dose per hectare: 12kg.
Sown area: 4.80ha x 12kg = 57.6kg/hour. **Take the adjustment table at 57.6kg/hour, or number 24 on the adjustment wheel.**

DELIMBE T15 -Setting table

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

Example: 4.80 meters wide x 4 km/hour = 1.92 ha/hour = 1.92 ha x 10 kg = 19.2 kg/hour N°11 on the flow-hour controller

Density 0.65 white rotor (very small seeds)

	MOTOR 40/60 TOURS	MOTOR 15/30 TOURS
N°4	2.13Kg/h	0.80Kg/h
N°5	2.42Kg/h	0.99Kg/h
N°6	2.71Kg/h	1.16Kg/h
N°7	3.01Kg/h	1.34Kg/h
N°8	3.31Kg/h	1.52Kg/h
N°9	3.61Kg/h	1.70Kg/h
N°10	3.91Kg/h	1.88Kg/h
N°11	4.21Kg/h	2.06Kg/h
N°12	4.51Kg/h	2.24Kg/h
N°13	4.82Kg/h	2.42Kg/h
N°14	5.13Kg/h	2.60Kg/h
N°15	5.23Kg/h	2.78Kg/h
N°16	5.54Kg/h	2.96Kg/h
N°17	5.85Kg/h	3.14Kg/h
N°18	6.16Kg/h	3.32Kg/h
N°19	6.47Kg/h	3.50Kg/h
N°20	6.78Kg/h	3.68Kg/h
N°21	7.09Kg/h	3.86Kg/h
N°22	7.40Kg/h	4.04Kg/h
N°23	7.72Kg/h	4.22Kg/h
N°24	8.05Kg/h	4.40Kg/h
N°25	8.38Kg/h	4.58Kg/h
N°26	8.72Kg/h	4.76Kg/h
N°27	9.56Kg/h	4.94Kg/h
N°28	9.90Kg/h	5.12Kg/h
N°29	10.58Kg/h	5.30Kg/h
N°30	11.07Kg/h	5.48Kg/h

Density 0.65 with green rotor (small seeds)

	MOTOR 40/60 TOURS	MOTOR 15/30 TOURS
N°4	4.80 Kg/h	1.80 Kg/h
N°5	6.72 Kg/h	2.52 Kg/h
N°6	7.68 Kg/h	2.88 Kg/h
N°7	8.78 Kg/h	3.29 Kg/h
N°8	10.81Kg/h	4.05 Kg/h
N°9	12.90 Kg/h	4.84 Kg/h
N°10	15.75 Kg/h	5.91 Kg/h
N°11	18.43 Kg/h	6.91 Kg/h
N°12	21.67 Kg/h	8.13 Kg/h
N°13	26.60 Kg/h	9.97 Kg/h
N°14	29.70 Kg/h	11.13 Kg/h
N°15	33.79 Kg/h	33.79 Kg/h
N°16	36.00 Kg/h	12.67 Kg/h
N°17	39.69 Kg/h	14.88 Kg/h
N°18	43.13 Kg/h	16.17 Kg/h
N°19	45.57 Kg/h	17.09 Kg/h
N°20	47.00 Kg/h	17.63 Kg/h
N°21	48.00 Kg/h	18.00 Kg/h
N°22	48.76 Kg/h	18.29 Kg/h
N°23	49.28 Kg/h	18.48 Kg/h
N°24	51.00 Kg/h	19.13 Kg/h
N°25	52.00 Kg/h	19.50 Kg/h
N°26	53.50 Kg/h	20.06 Kg/h
N°27	54.50 Kg/h	20.44 Kg/h
N°28	57.60 Kg/h	21.60 Kg/h
N°29	58.00 Kg/h	21.75 Kg/h
N°30	59.50 Kg/h	22.31 Kg/h

Density 0.65 with medium yellow rotor

	MOTOR 40/60 TOURS	MOTOR 15/30 TOURS
N°4	6.00 Kg/h	2.25 Kg/h
N°5	6.40 Kg/h	2.40 Kg/h
N°6	7.20 Kg/h	2.70 Kg/h
N°7	8.80 Kg/h	3.30 Kg/h
N°8	10.40 Kg/h	3.90 Kg/h
N°9	12.00 Kg/h	4.50 Kg/h
N°10	14.40 Kg/h	5.40 Kg/h
N°11	16.80 Kg/h	6.30 Kg/h
N°12	20.00 Kg/h	7.50 Kg/h
N°13	23.20 Kg/h	8.70 Kg/h
N°14	26.40 Kg/h	9.90 Kg/h
N°15	30.40 Kg/h	11.40 Kg/h
N°16	33.60 Kg/h	12.60 Kg/h
N°17	36.80 Kg/h	13.80 Kg/h
N°18	40.80 Kg/h	15.30 Kg/h
N°19	44.00 Kg/h	16.50 Kg/h
N°20	47.20 Kg/h	17.70 Kg/h
N°21	50.40 Kg/h	18.90 Kg/h
N°22	52.80 Kg/h	19.80 Kg/h
N°23	55.20 Kg/h	20.70 Kg/h
N°24	57.60 Kg/h	21.60 Kg/h
N°25	61.60 Kg/h	23.10 Kg/h
N°26	64.00 Kg/h	24.00 Kg/h
N°27	68.80 Kg/h	25.50 Kg/h
N°28	72.00 Kg/h	27.00 Kg/h
N°29	76.00 Kg/h	28.50 Kg/h
N°30	80.80 Kg/h	30.30 Kg/h

Ray grass rotor red big seeds

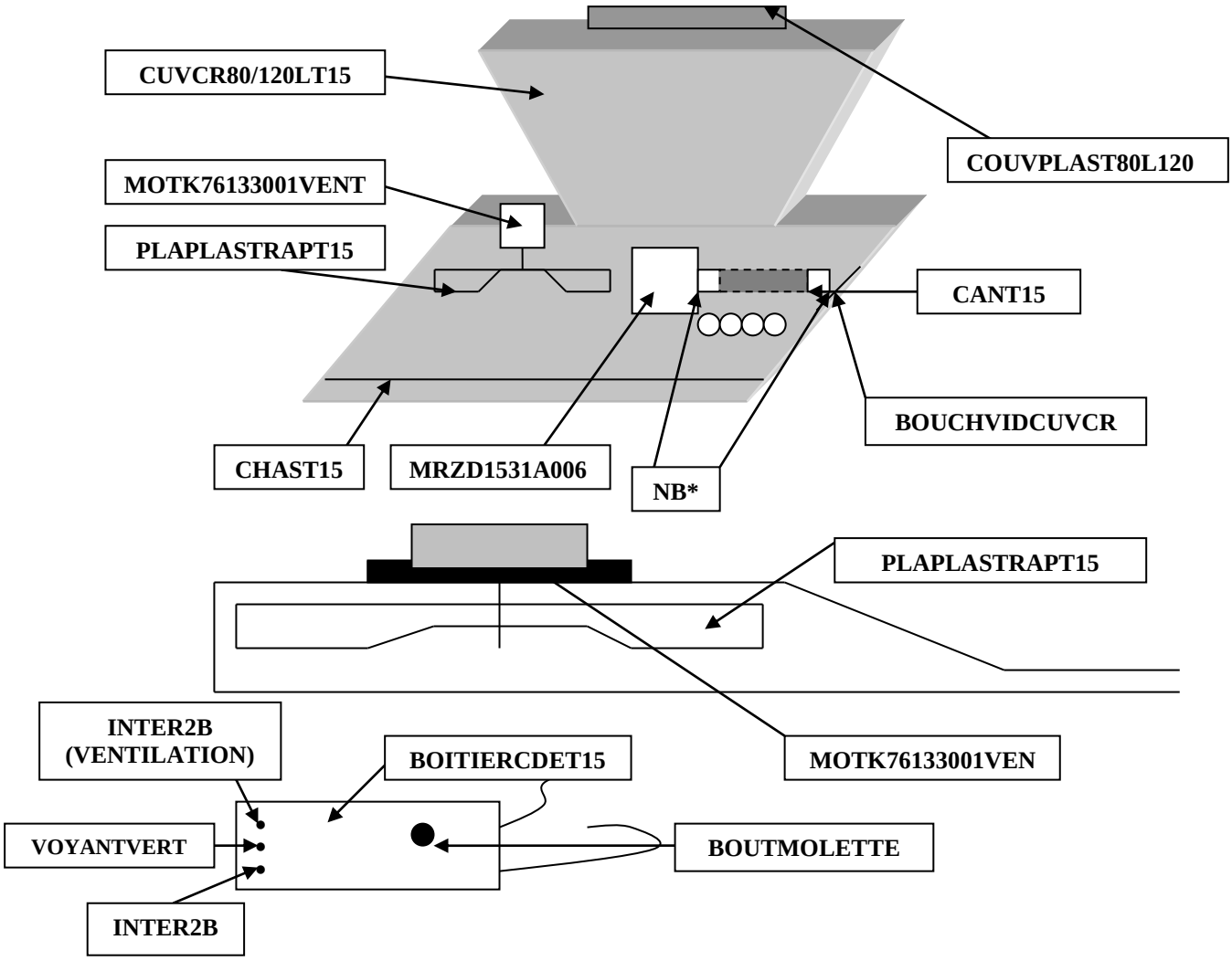
	MOTOR 40/60 TOURS	MOTOR 15/30 TOURS
N°4	14.00 Kg/h	5.25 Kg/h
N°5	18.00 Kg/h	6.75 Kg/h
N°6	22.00 Kg/h	8.25 Kg/h
N°7	26.00 Kg/h	9.75 Kg/h
N°8	30.00 Kg/h	11.25 Kg/h
N°9	34.00 Kg/h	12.75 Kg/h
N°10	38.00 Kg/h	14.25 Kg/h
N°11	42.00 Kg/h	15.75 Kg/h
N°12	46.00 Kg/h	17.25 Kg/h
N°13	49.50 Kg/h	18.56 Kg/h
N°14	53.00 Kg/h	19.87 Kg/h
N°15	56.50 Kg/h	21.19 Kg/h
N°16	60.00 Kg/h	22.50 Kg/h
N°17	63.50 Kg/h	23.81 Kg/h
N°18	67.00 Kg/h	25.13 Kg/h
N°19	70.00 Kg/h	26.25 Kg/h
N°20	73.00 Kg/h	27.38 Kg/h
N°21	76.00 Kg/h	28.50 Kg/h
N°22	79.00 Kg/h	29.63 Kg/h
N°23	82.00 Kg/h	30.75 Kg/h
N°24	85.00 Kg/h	31.88 Kg/h
N°25	88.00 Kg/h	33.00 Kg/h
N°26	91.00 Kg/h	34.13 Kg/h
N°27	94.00 Kg/h	35.25 Kg/h
N°28	97.00 Kg/h	36.38 Kg/h
N°29	100.00 Kg/h	37.50 Kg/h
N°30	103.00 Kg/h	38.63 Kg/h

Density 0.75 cereal - rotor red big seeds

	MOTOR 40/60 TOURS	MOTOR 15/30 TOURS
N°4	24.00 Kg/h	9.00 Kg/h
N°5	28.00 Kg/h	10.50 Kg/h
N°6	35.00Kg/h	13.13 Kg/h
N°7	39.00 Kg/h	14.63 Kg/h
N°8	44.00 Kg/h	16.50 Kg/h
N°9	53.00 Kg/h	19.88 Kg/h
N°10	63.00 Kg/h	23.63 Kg/h
N°11	72.00 Kg/h	27.00 Kg/h
N°12	82.00 Kg/h	30.75 Kg/h
N°13	92.00 Kg/h	34.50 Kg/h
N°14	102.00 Kg/h	38.25 Kg/h
N°15	112.00 Kg/h	42.00 Kg/h
N°16	121.00 Kg/h	45.38 Kg/h

	MOTOR 40/60 TOURS	MOTOR 15/30 TOURS
N°17	131.00 Kg/h	49.13 Kg/h
N°18	141.00 Kg/h	52.88 Kg/h
N°19	150.00 Kg/h	56.25 Kg/h
N°20	158.00 Kg/h	59.25 Kg/h
N°21	167.00 Kg/h	62.63 Kg/h
N°22	175.00 Kg/h	65.63 Kg/h
N°23	180.00 Kg/h	67.50 Kg/h
N°24	192.00 Kg/h	72.00 Kg/h
N°25	200.00 Kg/h	75.00 Kg/h
N°26	208.00 Kg/h	78.00 Kg/h
N°27	215.00 Kg/h	80.63 Kg/h
N°28	220.00 Kg/h	82.50 Kg/h
N°29	227.00 Kg/h	85.13 Kg/h
N°30	233.00 Kg/h	87.38 Kg/h

SCHEMA DELIMBE T15



REFERENCE	DESIGNATION
CHAST15	CHASSIS
COUVPLAST80L120	CAP
CANT15	ROTOR
CUVCR80/120LT15T11	TANK
MRZD1531A006	ELECTRIC DISTRIBUTION MOTOR
MOTK76133001VENT	ELECTRIC VENTILATION MOTOR
BOUCHVIDCUVCR	DRAIN PLUG SCREW TANK
PALPLASTRAPT15	VENTILATION BEARING
BOITIERCDET15	CONTROL BOX
BOUTMOLETTE	FLOW CONTROL DIAL
INTER2B	ON/OFF VENTILATION SWITCH
INTER2B	ON/OFF POWER SWITCH
VOYANTVERT	GREEN LIGHT PANEL
RESSORTTRACT	RESSORT TRACTEUR
SUPPTUYT15(1S)	SUPPORT TUYAU (préciser le nombre de sortie souhaitée en fin de référence)
DRAPEAU	DRAPEAU PAPILLON

NB: Light daily lubrication is recommended to ensure proper maintenance of the T15 seed drill.*

SCHEMA DELIMBE T15

COUVPLAST80L120

CUVCR80LT15
OU CUVCR120LT15

RESSORTTRACT

SUPPTUYT151S

CHAST15

MRZD1531A006

MOTK76133001VENT

DRAPEAU

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…
	Very large black rotor for beans, wheat, peas… ***This rotor is in 4-fin version, attention it allows a regular flow only at very high speed. It is therefore suitable for a specific use.***

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

REPLACEMENT OF DISTRIBUTION ROTOR OFF DELIMBE T15

Correct positioning of distribution rotor, bibs and spring.

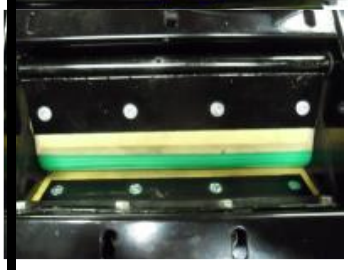
1. Release the spring : Original position bottom spring: 6H00
   Original position top spring: 12H00

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.