(PICHON)

USER MANUAL Touch screen TACT MASTER Pilote



ORIGINAL NOTICE

Ce manuel est à lire attentivement avant l'utilisation de la machine





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IMPORTANT:

In any case, the factory settings must not be modified without the prior consent of the manufacturer.





1 Safety requirements



These symbols observers in the handbook mean that they are important instructions inherent in the safety of the user or the good performance of the machine.

The user is the first recipient of this information and it is responsible for their applications.

This handbook constitutes an indissociable complement of the basic handbook of PICHON TCI Tankers.

Just like the handbook of the basic machine, the present note must be the object of an attentive reading on behalf of each user.

The total comprehension of the detailed operation of the machine is indeed pledge of a use in full safety and an effective operation lasting of long years.

The user is the first recipient of this information and it is responsible for their applications.

The improvement of our products is a permanent concern. So we reserve the right to proceed without notice to all modifications or improvements that it appears necessary to us to bring to our materials, without we being able to be obliged to apply these modifications or improvements to the machines sold previously.

1.1 Precautions to be taken before using the control box

The control box must be installed on a support built for this purpose. This support must be fixed and not obstruct the tractor controls.

Place the control box so that no controls can be actuated inopportunely.

Take care that the installation does not reduce the field of view of the driver all while making sure that the control box as well as the joystick remain to be carried with hand.

Before putting the control box under tension, check that no person is in the working area of the machine.



The powering of the control box can involve one or more movements of the machine.



1.2 Precautions to be taken during the use of the control box

Don't touch the control box while a person works on the machine.

Before all repair or maintenance work on the machine, stop the power supply of the control box.

1.3 Precautions to be taken during the driving

Before engaging on the public highway, make sure that the control box is well in transport mode.

This mode manages the functions of the machine to have the best configuration for displacements on road.

Make sure that the hydraulic distributors of the tractor and the PTO are stopped, and are not engaged inadvertently.



In <u>emergency</u>, don't hesitate to engage the emergency button placed on the top of the control box.





2 Description of the system

2.1 The touch screen

The touch screen allows the display of the different windows of "work" and gives the possibility of selecting the functions wished by a simple pressure of the finger on the keys.



<u>Home page</u>





2.1.1 Manufacturer reference (Factory settings)

In any case, the factory settings must not be modified without the prior consent of the manufacturer.

On this first page is the references of the customer owner of the material as well as a number of machine allowing to identify the system and the options which characterize it.



2.1 Joystick

The joystick allows to surf between the various windows of "work".

The color of the buttons on the top of the joystick is associated with the keys of the various windows of work.







2.2 The optional equipment

Your machine corresponds to a specific configuration which scrupulously respects the options described in the purchase order of the material.

This system allows to integrate many options (Flow control, drawbar and axles management, recovery of data via USB,...).

Will know that these options, available to the catalog, can be the object of an update on the material you have in order to make it evolve according to your needs (subject to compatibility and of validation near your business service).

3 Characteristics of the system in the cab



3.1 Schematic of the system : control box / joystick





3.2 Technical datas

Touch screen

Work temperature	0°C to + 50°C
Storage temperature	Until 70°C
Power supply	12 Volt DC
Touch screen	7" 16/9
Can-bus plug	M12 - 4 pins - Male
Joystick plug	M12 - 8 pins - Female

<u>Joystick</u>

Work temperature	- 10°C to + 50°C
Storage temperature	Until 70°C
Power supply	12 Volts DC
Joystick plug	M12 - 8 pins - Male





4 Access and navigation

The navigation from one mode to another can be done in two different ways:

- by the arrows at the bottom on the left and on the right of the touch screen



Previous page

Next page

- OR with the joystick by combining the blue button and the displacement of the joystick towards the left or the right-hand side (according to the desired page)



1 - Push and maintain the blue button

2 - Move the joystick towards the left or the right-hand side while keeping the button

- 3 Return in central position
- 4 Release the button





4.1 Navigation page

When the blue button is maintained, a navigation page appears.

A pulse towards the right-hand side or the left of the joystick allows to change the page.

The name of the following page is posted in the zone « Mark.1 ».

The new page appears as soon as the **blue** button is slackened.

Example :



Mark $n^{\circ}2$: arrows identification for the page changement.

Mark n° *3* : this arrow indicates that a pulse of the joystick towards the left gives access to the previous page (blue button maintained).

Mark $n^{\circ}4$: this arrow indicates that a pulse of the joystick towards the right gives access to the next page (blue button maintained).

Mark $n^{\circ} 5$: this arrow indicates that a pulse of the joystick towards the front allows to put the pump in filling mode (blue button maintained).

Mark $n^{\circ} 6$: this arrow indicates that a pulse of the joystick towards the rear allows to put the pump in spreading mode (blue button maintained).











5 Miscellaneous settings



In any case the factory settings must not be modified without the prior consent of the manufacturer.

5.1 Main page

Calculation of the past time

On this page, you can see the time at work "Mark 1". This time is in minutes.

Brightness adjustment

For a better comfort of work, it is possible to change the luminosity of the screen. Press on the key "*Mark.2*" of the touch screen during the day or the key "*Mark.3*" during the night.

Password

Press on the key "*Mark.4*" of the touch screen to enter in the menu. The digital keyboard posts and indicates the code (1234 by default) and OK.

At this moment, another key appears on the main page:

« PASSWORD OK CHECK PARAMETERS »

Language

The system can be use in French or English language. Press on the key "*Mark.6*" to have Finiish version and "*Mark.7*" for French version.

To access to the following page, press on the key "*Mark.5*" .or maintain the <u>blue</u> button of the joystick, and give a pulse towards the right to access to the following page.











En aucun cas les paramètres réglés d'usine ne doivent être modifiés sans l'accord préalable du constructeur.





6.1 Settings access



In any case the factory settings must not be modified without the prior consent of the manufacturer.

6.1.1 Tanker configuration

To reach the Tanker configuration page, take again the stage "password" then press on the key "PASSWORD OK CHECK PARAMETERS" of the touch screen.

On the opposite page, complete the different informations corresponding to your machine:

- Press the key « Mark.1 » for the tanker volume (liter) (Factory settings)

-Press the key « *Mark.2* » for the spreading width with dribble bar (*centimeters*)

-Press the key « *Mark.3* » for the spreader plate width (*centimeters*)

-Press the key « *Mark.4* » for the injector width (*centimeters*)

When you will start to work, the number of filled tanks (*Mark.5*) will automatically post in the system "number of tanker".

There is also a mileage counter ("Mark.6")

To access to the following page, press on the key "*Mark.7*" on to the touch screen. To access to the main page, press on the key "*Mark.8*".

NB : In the settings pages, you can use only the key of the touch screen to change the page - it is impossible to do it with the joystick.





In any case the factory settings must not be modified without the prior consent of the manufacturer.



6.1.1 Times for automatic cycles and valves



In any case the factory settings must not be modified without the prior consent of the manufacturer.

All these time are to set correctly the automatic cycles.

Tempo ouverture / fermeture vanne de porte (Réglage usine)

Mark 1 : It's the necessary time to open or close completely the door valve

Tempo ouverture / fermeture vanne DPA (Réglage usine)

Mark 2 : It's the necessary time to open or close completely the flow control valve

Tempo ouverture / fermeture vanne plongeur (Réglage usine)

Mark 3 : It's the necessary time to open or close completely the plunger arm valve

Tempo fin de remplissage (Réglage usine)

Mark 4 : It's the necessary time at the end of the filling to stop turbofiller.

To access to the following page, press on the key "*Mark.5*" on to the touch screen. To access to the main page, press on the key "*Mark.6*".





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6.1.1 Spreading bar cycle



In any case the factory settings must not be modified without the prior consent of the manufacturer.

Modifiable times on this page influence directly the **automatic cycle** with the dribble bar.

All these variables are modifiable but ensure you that they are rather important so that the cycle proceeds correctly.

<u>Time to unfold spreading bar (Factory settings)</u>: This time ("Mark.1") in seconds is the necessary time to obtain a complete opening of the dribble bar during the automatic cycle.

<u>Time to fold spreading bar (Factory settings)</u>: This time ("Mark.2") in seconds is the necessary time to obtain a complete closing of the valve.

6.1.2 Injector cycle

Time to descent the liinkage (Factory settings): This time *("Mark.3") in seconds* is the necessary time to obtain a complete descent of the rear linkage during the automatic cycle.

Time to empty injector (Factory settings): This time *("Mark.4") in seconds* is the necessary time to obtain the drain of the injector at the end of the automatic cycle.

To access to the following page, press on the key "*Mark.5*" on to the touch screen. To access to the previous page, press on the key "*Mark.6*".







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6.1.1 TEST PAGE

On this page, it is possible for you to test all the valves of the machine (without any automatic cycle).

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Mark n°1 : key allowing to open the valve of the plunger arm

Mark $n^{\circ}2$: key allowing to close the valve of the plunger arm

It's the same procedure for the door valve and the top fill.

Mark n°3 : setting of the wheel diameter (centimeters). (Factory settings)

Test of the door valve :

Mark n°4 : real position of the door valve

Mark n°5 : next position of the door valve :

Press on the key ("*Mark n* $^{\circ}$ 5") to set the new position of the valve - after pressing on "OK", the valve moves to its new position.

In order to have a precise movement, the valve installed on your machine was provided with a sensor which informs the system about the real position of the valve.

NB: On a 200 mm diameter valve, we have <u>20 positions</u>.

To access to the previous page, press on the key "Mark.6".







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6.1.2 SUSPENSION Settings



In any case the factory settings must not be modified without the prior consent of the manufacturer.

The sensors values for right and left sides can be read on this page (Mark 7 and 14). A cursor shows you the real position of the suspension (Mark 3 and 17). The position of the machine will depend of the values given by the sensors.

For each side, the values below have to be setted :

- MAXI Value (*Mark.1 and 20*) (= maximum height of the suspension) (*Factory settings*)
- **PLAGE HAUTE** (*Mark.2 and 19*) (when you exceed this value during the time in *Mark.8*, the suspension will start to descent) (*Factory settings*)
- MILIEU Value (*Mark.4 and 18*) (this value is automatically calculated to put the suspension in the middle) (*Factory settings*)
- **PLAGE BASSE (Mark.5 and 16)** (when you exceed this value during the time in *Mark.13*, the suspension will start to go up) *(Factory settings)*
- MINI Value(*Mark.6 and 15*) (= minimum height of the suspension) (*Factory settings*)

The values (*Mark.8* and *13*) are times in seconds - by changing these times, the suspension will be more or less reactive.

Example :

If these times are too short, the suspension will move all the time. If these times are too big, the suspension will be not reactive.

The informations (*Mark.9*) show you if there is an error code on the system.

The key AUTO / MANU (Mark.21) is to set the suspension in automatic or manual mode.

PS : Before putting the suspension in automatic mode, don't forget to press the arrow UP or DOWN of the suspension (manual mode) => to reset the system of all the error codes.

If you can't put the system in automatic mode, there is a fault that you can't reset you have to contact the PICHON Aftersales Service.

The lifting axle is operated by pressing the key « Mark.11 ».

To go to the next page, press the key « *Mark.12* » on the touch screen. To go to the previous page, press the key « *Mark.10* ».



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6.1.3 Electrical forced steering



In any case the factory settings must not be modified without the prior consent of the manufacturer.

Three sensors are fixed on the machine to know in real time the position of the machine's axles and the tractor.

TRACTOR POSITION

The sensor is mounted on the side of the machine - this sensor is connected to the tractor by a cable (with a spring system).

This sensor will give to the system the position of the tractor so the direction where the tractor goes.

This information is necessary for the system to turn the wheels of the machine in the right direction.

Mark $n^{\circ}1$: value of the sensor when the machine and the tractor are straight.

Mark n°2 : maximum value of the sensor on the right.

Mark n°3 : instant value of the sensor.

Mark n° 11 : maximum value of the sensor on the left.

FRONT AXLE POSITION

Mark $n^{\circ}4$: value of the sensor when the machine and the tractor are straight.

Mark n°5 : maximum value of the sensor on the right.

Mark **n**°**6** : instant value of the sensor.

Mark n° 14 : maximum value of the sensor on the left.

REAR AXLE POSITION

Mark n°7 : value of the sensor when the machine and the tractor are straight.

Mark n°8 : maximum value of the sensor on the right.

Mark n°9 : instant value of the sensor.

Mark n° 13 : maximum value of the sensor on the left.

Mark n° 11 : touch to select AUTOMATIC or MANUAL mode.

To go to the next page, press the key « *Mark.10* » on the touch screen. To go to the previous page, press the key « *Mark.12* ».









FAULT ON STEERING AXLE SYSTEME

When the system is in error mode, the error messages appear in the orange zones (*Mark*. *1 et 2*).

To reset the error messages, press on the key « **RAZ DEFAUT CAPTEUR** » to reset the system and restart it. The messages will disappear if there is no more faults.

Press the key « MANU » (« Mark.4 ») to put the system in AUTOMATIC mode.

These fault messages can appear when the cable between the tractor and the machine is broken or when a sensor is damaged.

If the system detects a fault, you can't activate the AUTOMATIC mode.

If the error appears on one of the work pages, you have to enter in the parameters pages to reset the system.

To go to the next page, press the key « *Mark.3* » on the touch screen. To go to the previous page, press the key « *Mark.5* ».









6.1.4 Flow control system

On this page, there is all the parameters to set properly the flow control system.

In any case the factory settings must not be modified without the prior consent of the manufacturer.

Mark n°1 : diameter of the wheel (centimeter - factory settings)

Mark n°2 : regulation's delta. (Factory settings)

Mark $n^{\circ}3$: settings of the flow control valve's speed %. (*Factory settings*)

Test zone for the flow control valve :

Mark n°4 : instant position of the valve

Mark $n^{\circ}5$: press the key to set a new position for the valve - after pressing « OK », the valve goes to the new positon.

To obtain a good precision, there is a sensor on the flow control valve to know the instant position of the valve.

PS: On a 150 mm valve, there is 16 positions.

If the speed of the valve is too high, the detection of the position can be wrong. In this case, the valve will be completely open or close without stop in the good position. After 3 seconds, the valve will move to try to find the good position.

If the system can't find the good position, you have to diminish the speed of the valve.

If you can't solve the problem, contact the PICHON Aftersales Service.

To go to the previous page, press the key « Mark.6 ».





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7 Use

7.1 Plunger arm page

This page allows to do all the functions in connection with the suction of the slurry.

In the zone « Mark.1 » are described the joystick functions. Here the rise and descent of the arms n°1 and 2.

In the zone « *Mark.2* », it's possible to open and close the valves of the arm and the rear door.

These functions are only on the touchscreen.

In zone « *Mark.3* » you can see the function of the automatic cycle.

After pressing the green button, the automatic cycle will start :

- Opening of the arm valve
- Starting of the turbofiller
- After 90 seconds, the counter « *Mark*.**7** » will count a new load.

When the tank is full, press the green button to stop the automatic cycle :

- Stopping of the turbofiller
- Closure of the arm valve
- Inversion of the vacuum pump in pressure mode

In zone « *Mark.8* », you can start or stop the turbofiller manually.

In zone « *Mark.7* », there is the loads counter - you can reset it.

The key « *Mark.5* » is to switch on or off the work lights.

To go to the next page, press the key « *Mark.6* » on the touch screen. To go to the previous page, press the key « *Mark.4* » or maintain the blue button and push it to the left or right to change the page.











7.2 TRANSPORT page

On this page, you will find all the functions in relation with the transport mode.

In zone « *Mark.1* », the cursor (« *Mark.2* ») shows the instant position of the axles. In automatic mode, the cursor is in front of the red square.

it's possible to have a error code on the axles suspension. In zone (« *Mark.1* »), there will be the keys to move manually up and down the suspension.

<u>To reset the fault</u>, press one time on the key to move up or down the suspension and press on « **MANU** » key to put the system in automatic mode.

With the key « *Mark*.7 » you can move up and down the front lifting axle.

In zone « *Mark.8* », the cursor shows the instant position of the drawbar. In automatic mode, the cursor is in front of the red square.

it's possible to have a error code on the drawbar suspension. In zone (« *Mark.7* »), there will be the keys to move manually up and down the suspension.

<u>To reset the fault</u>, press one time on the key to move up or down the suspension and press on « **MANU** » key to put the system in automatic mode.

NB: it's possible to move the drawbar only on tools and spreading pages. To do that, maintain the yellow button and in the same time, push or pull the joystick.

NB : in this page, the flashing beacon is automatically switched on (« *Mark.5* ») and the system checks that all the valves are closed.

In zone « Mark.3 », there is the display of the automatic cycle.

To go to the next page, press the key « *Mark.6* » on the touch screen. To go to the previous page, press the key « *Mark.4* » or maintain the blue button and push it to the left or right to change the page.











7.3 TOOLS page

On this page, you will find all the functions in relation with the spreading tools.

In zone « Mark.1 », there is the functions of the joystick :

- Rise and descent of the linkage
- Opening and closure of the linkage

Before starting the automatic opening, be sure that you have selected the good spreading tool. It's possible to select three tools : SPREADER NOZZLE (« Mark.8 »), INJECTOR (« Mark.7 ») or DRIBBLE BAR (« Mark.7 »).

If the dribble bar is selected, you can set the spreading width in zone « Mark.6 ».

If the spreader plate is selected, the zone « *Mark.1* » disappears.

The « **INFORMATIONS** » zone « *Mark.2* » shows the function of the automatic cycle. With the dribble bar, the automatic cycle starts by pressing the green button:

- Opening of the dribble bar
- Descent of the pipes

At the end of the automatic cycle, a message will inform you that the tool is open.

To fold automatically the dribble bar, press the green button :

- Folding of the pipes
- Closure of the dribble abr

NB : If there is a problem during the automatic folding or unfolding of the dribble bar, you have just to move the joystick to stop the automatic cycle.

The worlights can be switched on or off by pressing the key « Mark.4 ».

To go to the next page, press the key « *Mark.5* » on the touch screen. To go to the previous page, press the key « *Mark.3* » or maintain the blue button and push it to the left or right to change the page.









7.4 SPREADING page

On this page, you will find all the functions in relation with the spreading.

In zone « *Mark.1* », there is the functions of the joystick :

- Rise and descent of the linkage

In zone « *Mark.2* », there is the keys to open and close the left and right valves left and right valves of the dribble bar.

In zone « *Mark.7* », there is the keys to open and close the flow control valve.

In zone « *Mark.8* », it's the remaining liquid inside the tank (Liter).

In zone « *Mark.9* », you can set the quantity of liquid that you want to spread.

Before starting the automatic opening, be sure that you have selected the good spreading tool on the previous page. With the spreading bar and the injector, the automatic cycle will be started by pressing the green button:

- Automatic opening of the valves + flow control valve.
- Automatic starting of the macerators.

The flow control system can be activated or disactivated with the key « Mark.6 ».

When the cycle is started, you have a message in zone « *Mark.3* » to confirm you that the spreading is in progress. To stop the cycle, press the green button :

- Stopping of the macerators
- Automatic closure of the valves

By pressing the key « Mark.10 », you can stop or start manually the macerators.

In zone « *Mark.11* », there is the display of the spreading width.

In zone « *Mark.12* », there is the key to stop or start the rear turbofiller.

To go to the previous page, press the key « *Mark.4* » or maintain the blue button and push it to the left to change the page.









7.5 FLOW CONTROL system page

On this page we have :

Mark $n^{\circ}1$: the quantity to spread (m³/ha).

Mark $n^{\circ}2$: the remaining quantity of liquid inside the tank (liters).

Mark n° *3* : start or stop the flow control system.

Mark n°4 : the instant flow.

Mark n°5 : instant position of the flow control valve.

Mark n°6 : instant speed of the machine.

Mark $n^{\circ}7$: target speed to respect if you want to have the good dosage per hectare.

Mark $n^{\circ} 8$: flow corresponding to the dosage in m^3/ha .

Mark $n^{\circ}9$: minimum position of the flow control valve (under this position, the feeding of the dribble bar will be bad).

Mark n° 10 : key to reverse the macerator.

Mark **n**°**11** : display of the spreading width.

NB : when the target speed is green as the instant speed, you have the good dosage.

If the target speed is black, the flow control valve is closed at the maximum :

=> the driver has to increase the speed so that the valve start to regulate to the top.

If the target speed is red, the flow control valve is open to the maximum.

=> the driver has to slow down the speed so that the valve start to regulate to the bottom.











7.6 The keyboard

The keyboards below allow to modify the numbers and words..

They will be displayed automatically when you press on a value. They will disappear :

- By pressing **OK** to validate
- By pressing **ESC** to go to the previous page without validate the values.









7.7 USB SAVING page

To justify the spreading, it is possible to save all the datas on a USB stick.

To do that, open the main page and press on USB key on the left hand corner at the bottom.

Fulfill the informations :

- date
- client name
- plot name

When all the informations are fulfilled, insert the USB stick in the plug on the side of the control box.

The message « **SAVING** » appears when the USB stick is detected. The saving will start after pressing the **"SAVING"** button.

MERCI DE RENSEIG	NER LES VARIABLES (DESSOUS
DATE :	02.03.2	2013
CLIENT :	GERA	RD
PARCELLE :	ZD42	22
DONNEES SAU	VEGARDEES CI	DESSOUS
CUVES POMPEES	25	
TEMPS (Minutes)	105	METRES
VOLUME EPANDU (L)	612500	612.50
SURFACE (Ha)	11	METRES
VOL EN LITRE / Ha	55682	55.68
LANCER	SAUVEGA	RDE

After few seconds, it's possible to delete all the datas of the control box and start to spread to a new customer.

The saved datas can be read directly open with excel software:

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Finnish pages







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ASIAKAS		
ALUE :		
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KUORMAT	0	
AIKA (Minuutit)	5	METRIT
LEVITYS MAARA (L)	65700	65.70
PINTA-ALA (Ha)	0.62	METRIT
MAARA LITROINA / Ha	106491	106.49













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AVOIN	M.SAATO. AUTOM. LUISTI	SULJE
AVOIN	VEITSIMULTAIMEN VASEN LOHKO	SULJE
AVOIN	VEITSIMULTAIMEN OIKEA LOHKO	SULJE
AVOIN	OVEN LUISTI	SULJE
YLOS	NOSTOLAITE	ALAS
	JOYSTICK => TOIMINTO TAYTTO VARSI	









М	SAATO.AUTOM. AS	SETUKSE	т
ΡΥΟ	RAN HALKAISIJA	16	5 Cm
	SAATOJEN ASETTA	AMINEN	
SAADOT I	DELTA : + -	150	
	PROPO. VENTTIILIN	N KASKY	
	M.SAATO. AUTOM. LUISTI:		32 %
	VENTTIILI T	ESTI	
0	TODELLINEN AS	ENTO	
	M.SAATO. AUTOM. LUIST	F1:	
0	UUSI ASENT	ō	



NOTES :







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