

SHORT “START UP” MANUAL

Before working with the robot it's important that you are familiar with the safety instructions in the user manual.

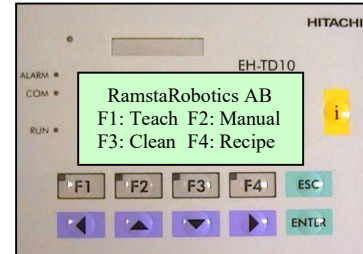
Start the robot

Press the red main switch, placed on the right side of the operatorspanel.
Acknowledge the message "System rebooted" with the ESC key

Choose menu

The main menu is divided in four menus: Teach (F 1), Manual (F 2), Clean (F 3) and Recipe (F 4).

Every menu has a number of submenus. This manual gives you a short “start up” information about Cleaning. More detailed information about cleaning and other menus you will find in the user manual.

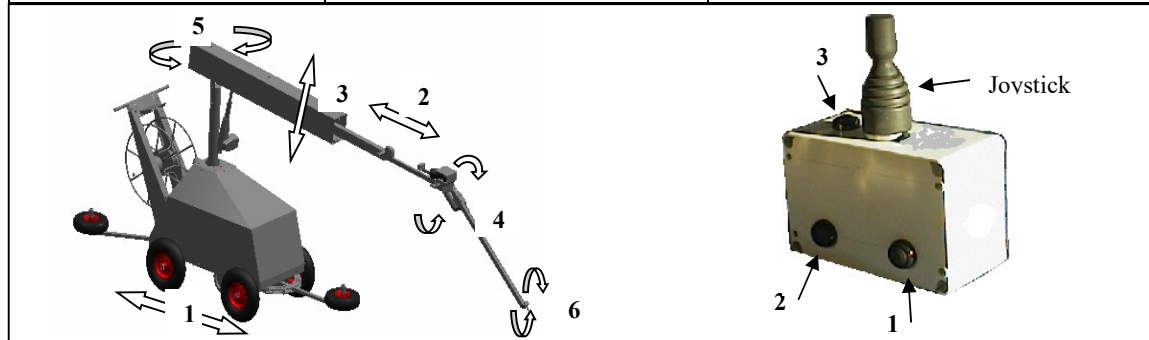


Picture 1, main menu

Steer the robot

See commands and movements below. The directions are to be seen from the rear of the robot.

Motion selected	Commands on the operator panel	Joystick commands
1. Robot forwards/backwards	Forw.: F 2 + ▲ Back: F 2 + ▼	Press 1 and 2, move joystick forw./back.
2. Telescope out/in	Out: F 1 + ▲ In: F 1 + ▼	Press 1, move joystick forw./back.
3. Raise/lower boom	Raise: ▼ Lower: ▲	Move joystick forw./back.
4. Arm in/out	In: F 1 + ◀ Out: F 1 + ▶	Press 1, move joystick left/right
5. Rotation of tower	Left: ◀ Right: ▶	Move joystick left/right
6. Rotation of nozzle	Left: F 2 + ◀ Right: F 2 + ▶	Press 2, move joystick left/right
Water Off/On	F 3	Press 3
Hose reel in	F1 + F2	



Picture 2, Motions

Before cleaning check the following:

1. That no position marker brackets have been moved or are missing
2. That each position marker is fixed in the correct bracket
3. That the position switch is set in the same position it was in during teaching, see recipe management
4. That the aisle and pens are clear of obstacles, which can interrupt the cleaning process
5. That the high-pressure cleaning unit is powered up
6. That water is connected to the high-pressure cleaner
7. That the high-pressure hose is free to move and fastened centrally behind the hose reel
8. That the charger is disconnected
9. That the recipe management list is available
10. That the pin for the guidance wheel is placed in the correct position, see recipe management list
11. That you know where to start the cleaning process, check for the first position marker

If any position marker is missing the robot will stop and the alarm sets at the place of the missing marker.

Start position

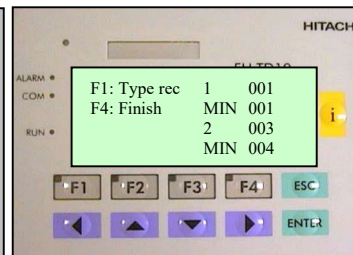
Put the robot 50 cm behind the first position marker. Make sure the guidance wheel is in contact with the wall on the side of the aisle where the markers are located.

Run the cleaning robot forwards using F 2 + ▲, all the way to the first position marker. It is important to press the button until the robot stops for the marker.

Using a WORKING SCHEME

From the main menu (picture 1) press: **F 3** (clean) > **F 1** > Type recipe no. > **ENTER** > **F 4** > **F 3**

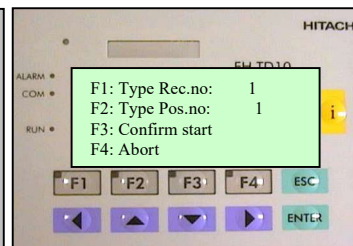
Use **F1** and the marker indicates the third position in the recipe number (to the right) on the first row. The recipe number is typed from right to left (the last digit first and so on). If you want to use recipe number 12 for example, place the marker to the right, then use the up ▲ arrow key twice to type digit 2. Then use arrow key left ◀ followed by the up ▲ arrow key once for digit 1. When the correct number is typed, confirm using the **ENTER** key. You can also put a time for pausing between the recipes if required.



Clean WITHOUT a working scheme

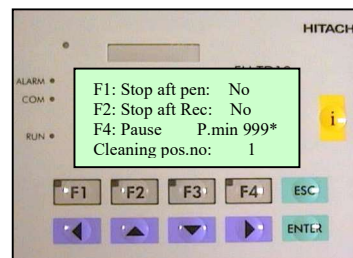
From the main menu (picture 1) press: **F 3** (clean)>**F 4** (finish) > **F 1** > Type recipe no. > Type pos no. > **F 3**

Press **F 1** (Type Rec.no). Type "recipe number" using arrow keys in the same manner as in "working with a working scheme". At this point, you can start the cleaning process at an optional position in the stable. The cleaning process is started using **F3: Confirm start**



Regardless of whether options 1 or 2 above are used, this picture will be displayed. It is shown during the whole cleaning process and it is possible to interrupt the cleaning process after a particular pen or when the recipe is completed. Additional information about the position in progress is displayed. By using **F1** or **F2**, the text is shifted from No to Yes.

- If running without a working scheme, the cleaning process will operate without stopping if you do not change F1 or F2 to Yes
- If running using a working scheme, the cleaning process will end after the last recipe in the working scheme, and there is no need to change F1 and/or F2 to Yes



After the cleaning

After the cleaning process it is important that you follow these steps:

1. Release the pressure by extending the arm in manual mode and opening the water valve. **The water connected to the high pressure cleaner must be turned off before releasing the pressure!**
2. Disconnect the hose from the high pressure cleaner and roll it up by pressing **F1+ F2 at the same time**.
3. The robot will roll the hose up for as long as you press the keys.
4. Rinse the robot with water thoroughly. Take the hood off and rinse the parts under the hood and also inside the boom.
5. Take the robot to the parking place to be used between the cleaning sessions. Charge the batteries by connecting the charger to the rear connector. **To charge the batteries, the cleaning robot must be switched off**. The robot charger is charge protected which means that you can leave it on charge until the next cleaning process.

Teaching hints

Read **Teaching hints** in the user manual. It will give you valuable hints that save time.

Alarm

If you get an alarm, an alarm number will be presented in the display. For guidance in what could have caused the alarm, read **Alarm** in the user manual. If you need to contact service personnel, it helps fault finding if you have the alarm number and symptoms available.

Contact information

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