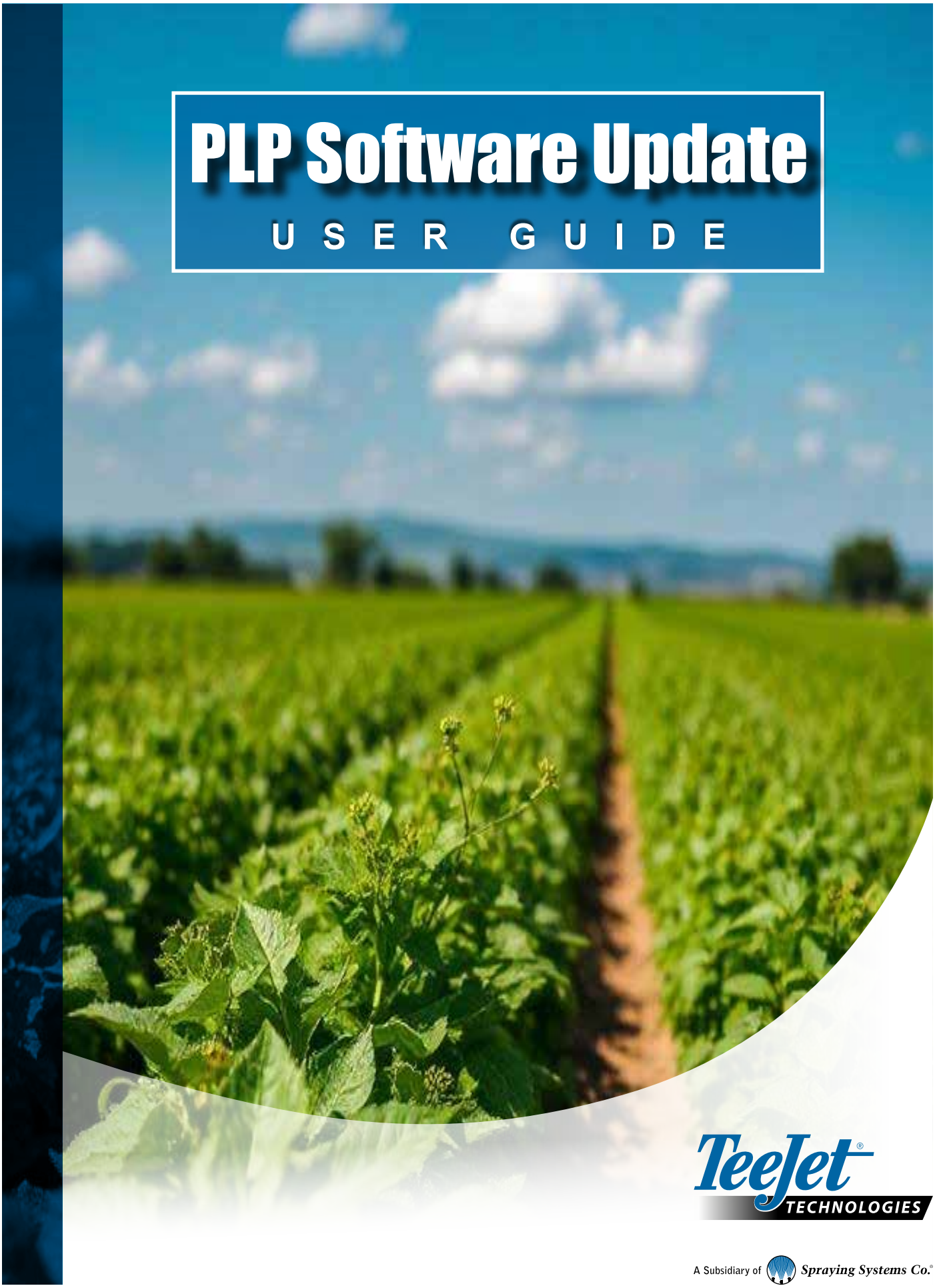
PLP Software Update

USER GUIDE



TeeJet® TECHNOLOGIES

A Subsidiary of Spraying Systems Co.®

PLP Software Update

SPECIAL NOTIFICATION

This manual is meant as a single add-on product manual, to be used in conjunction with the full IC45 manual. Please be sure to carefully read the safety instructions in the IC45 user manual before using this manual.

It is also recommended that you look at the chapter on key usage, as well as how the menus work, before you move ahead with this manual.

PLP SOFTWARE UPDATE

IDENTIFYING THE DIFFERENCE BETWEEN AUTO-ALLOCATION AND MANUAL

Auto-allocation or Manual Allocation

When you are setting up a new system, or adding a new module to your existing system, it is necessary to allocate the modules, so the system will be able to recognize the modules for what they are.

After the modules have been allocated, the system will then register the software, and if necessary, update the software.

To know whether your system is able to automatically allocate your modules, or if you will need to allocate manually, you will need to know the IC45s software version.

If the IC45s software version is V2.20 or higher, your modules will be automatically allocated, and you won't have to do anything. You can therefore skip the following chapter.

If your IC45 software is lower than V2.20, you will have to manually allocate the modules.

PLP Software Update

POWERLINK+

Warning screen

The first time you attach a PLP module to your system, a warning screen will pop up, when your system has been turned ON, and is booting up.

As you can see on the screen, this warning comes up, because you have attached a PLP module, that is in need of being allocated.

If you have not attached any new PLP module to your system, and this warning screen comes up anyway, you should go to the PowerLink+ menu, to check for possible errors.

PowerLink+ Menu

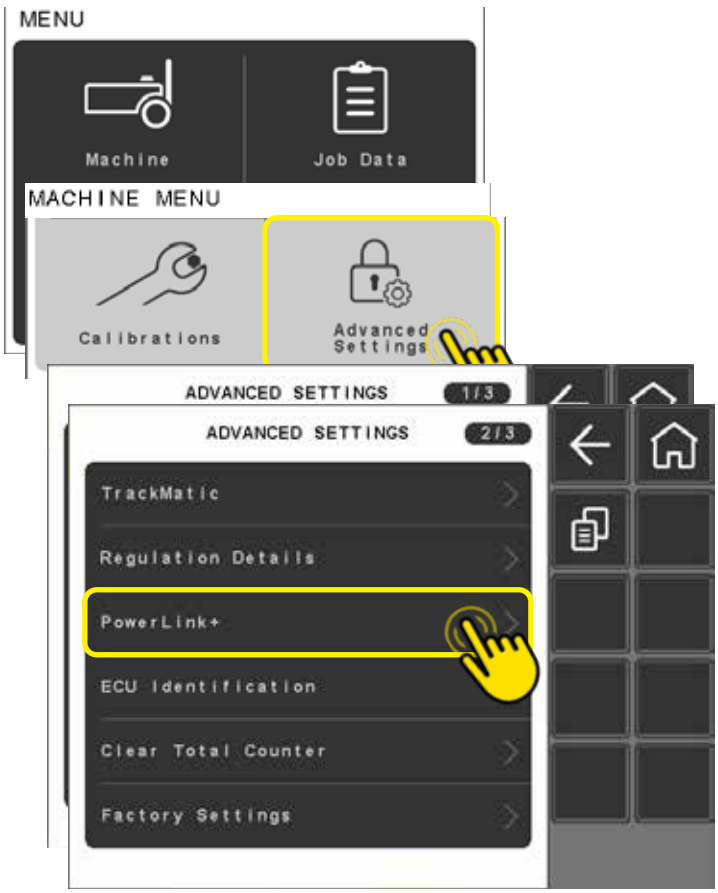
Please follow the instructions below, to access the PowerLink+ menu, used for allocating modules.

Main Menu

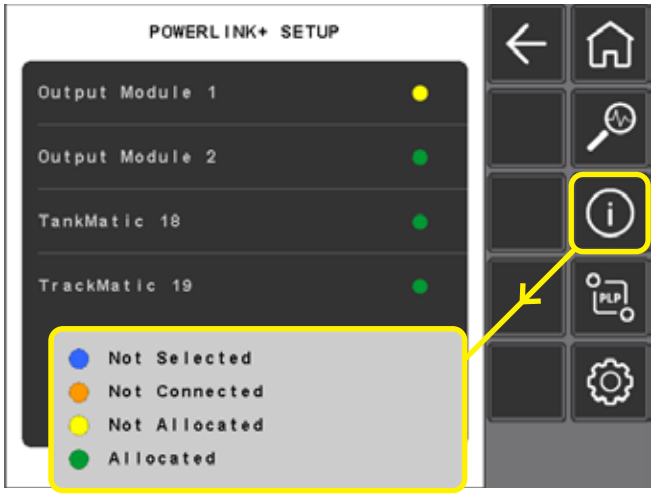
Machine

Advanced Settings

PowerLink+



When you access the menu, it will likely look different than the picture on the right, as it depends on what is installed on your system, as well as, if you have allocated modules previously.



The colour at the end of the module line, indicates the current status of your attached modules. Pressing the “Information key”, will open an information window, showing you the different colours’ meaning.

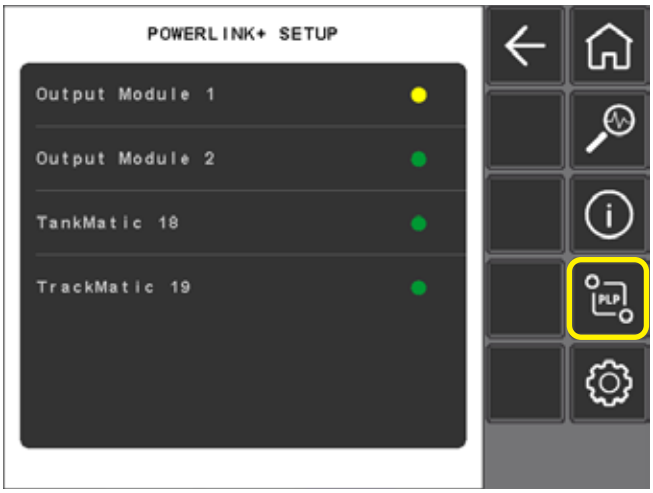
Allocating modules

Warning:

It is very important, when you are allocating, that you allocate the correct module, with the correct line on the UT.

If you allocate the wrong module, it is possible that outputs could be controlled by the wrong module, which could not only damage the machine, but also possibly cause physical harm to workers around the machine.

It is also important to know, that if you have multiple PLP modules attached, even if one of them has already been allocated in the past, you **have** to allocate all PLP modules, when allocating a new module, into the system.

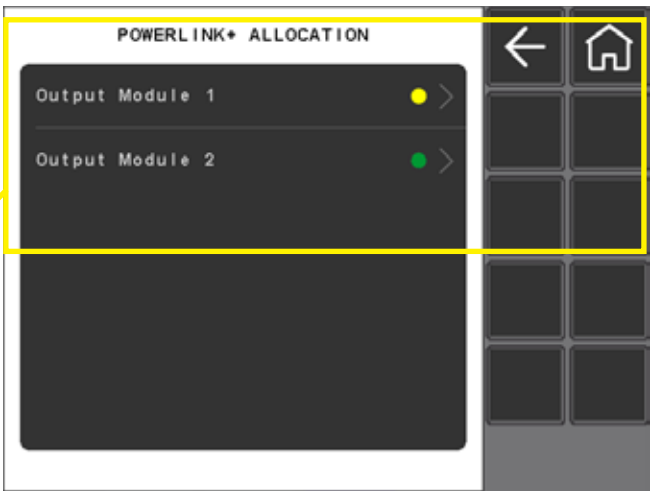


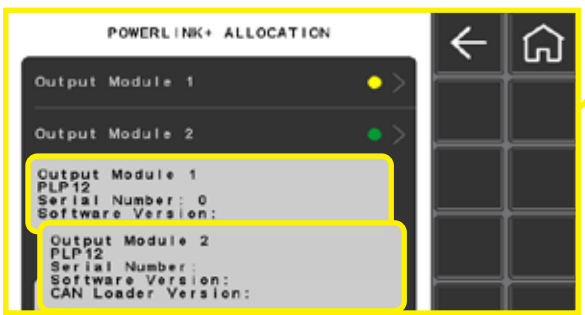
If you attempt to only allocate a new module, whilst an already allocated module is attached, the system will not recognize the allocation. Meaning, when you reboot the system, it will once again, ask for PLP module to be allocated, and show as never having been allocated in the first place.

To properly allocate your PLP modules, first press the “Allocate Key”. This will cause the PowerLink+ Allocation menu to come up.

Pressing either available module, causes an information window to pop up.

We have chosen to remove the information from the window, but it is important to note, that any non-allocated PLP module, will have very little information, as opposed to an already allocated module, as the information from the non-allocated module, has yet to be extracted by the system.





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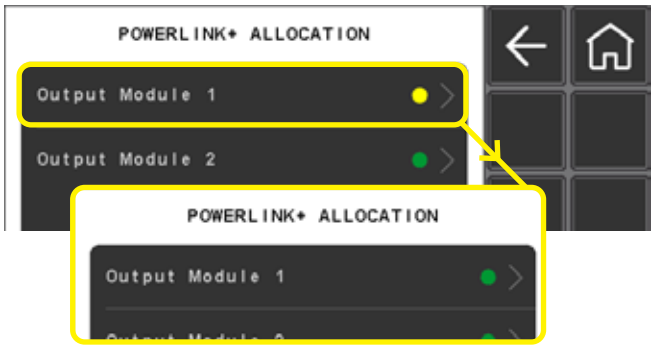
Press the line of the module you wish to allocate, and hold a magnet up to the location seen on the rendering on the right, of the PLP device. If you have done it correctly, the information window will disappear, unless the same line is pressed again, afterwards.

As mentioned above, it is important to allocate all modules, even if they have already been allocated in the past.

Simply press the line of the next module, and repeat the process as described above.

If a PLP module has not been allocated previously, you will also notice, when the information window disappears, the yellow status indicator will turn green, once the module is allocated properly.



Once all modules, in the example case, both modules, have been allocated, reboot your system. Preferably by shutting it down, rather than simply cutting the power directly.

Once you turn the system back on, you should no longer get the PLP Module Allocation warning screen.

If the warning screen still comes up, a mistake has been made, or there is an error on your system.

It is suggested to go back, and attempt the allocation part of the manual again, from the beginning.

Common mistake

If, after you have allocated a module, but before you reboot, you happen to press one of the newly allocated module lines again, it is possible that you will experience an error.

This happens due to you having already allocated the module, and had it communicate with the system. When you press the line again, it causes it to stop communicating with the system, which causes the system to think the PLP module has stopped working.

If this should happen to you, it is best to simply follow the instruction on the screen, and reboot the system.

If it happened in the middle of your allocation, you will have to start over from the beginning, however, if it happened after you were completely done with your allocation, it is possible that you won't have to allocate a second time.

Simply look for the "PLP Allocation" warning screen in the beginning, to see if you will need to re-allocate.

Or you can go back to the PowerLink+ menu, and check the status of the modules, at which time, if everything is as it should be, all lights should be green.

PLP Software Update

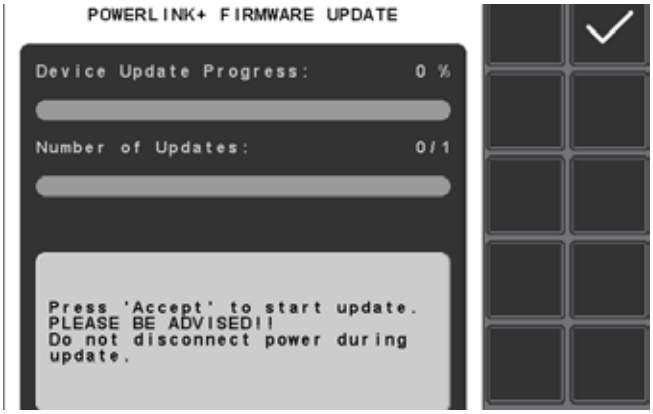
Once all modules have been allocated, and you reboot your system, there is a possibility, that your IC45 will want to install software on your new PLP modules.

A new warning message will be present during start-up, telling you that New Firmware is Required.

As is also mentioned in the message, this new software will need to be installed on the PLP modules, in order for the system to work. It isn't possible to choose not to install, or skip this step.

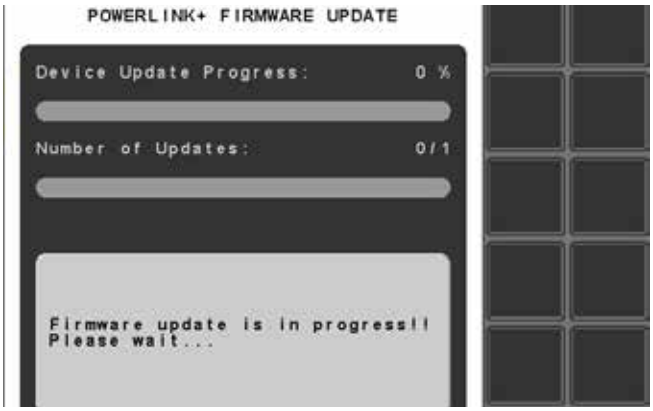
Once the system is fully booted, the Firmware Update screen will appear.

As the message in the information window says, you simply have to press the accept button to start the update, whilst also making sure, not to disconnect or turn OFF the power to the system.



In our example, we have simply allocated a single module, you will be able to see the number of modules in the "Number of Updates" line.

A higher number of modules in need of firmware update, will show a higher number of required updates.

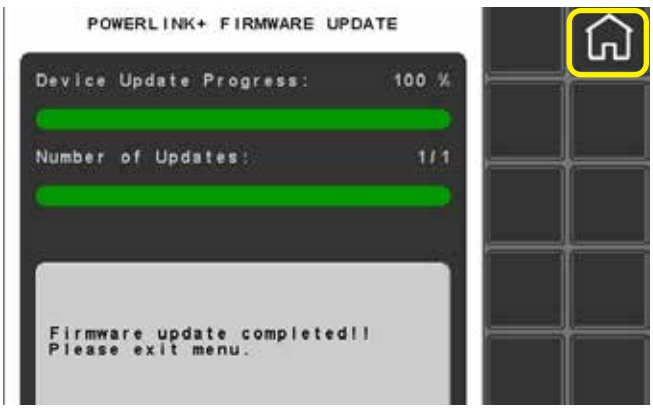


Once all modules have been updated, you can press the "Home" key to leave the menu.

It is however, suggested that you reboot the system again, after ending any Firmware Updates.

Whether you reboot the system directly from the Firmware Update Screen, or from the Home Screen, doesn't make any difference. Simply make sure you reboot.

Again, it is suggested that you shut the system down, instead of cutting the power directly.



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Other keys in PowerLink+ menu

There are two additional keys that can be used, in the PowerLink+ menu. Namely the “Diagnostic Key” and the “Select Key”.

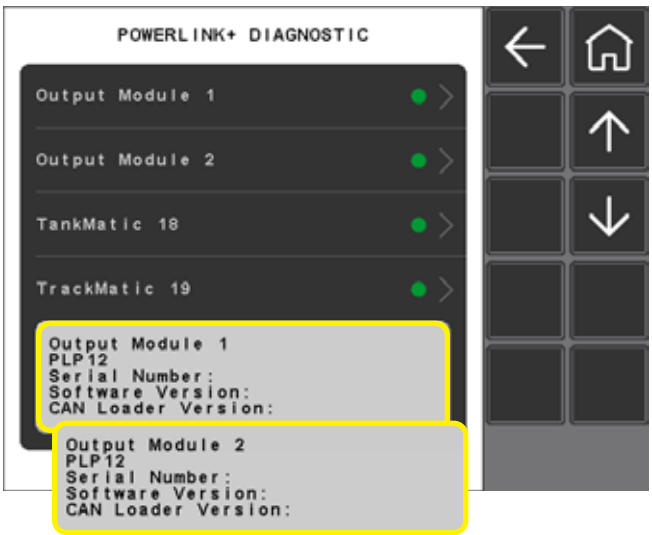
Diagnostic Key

Pressing the “Diagnostic” key, will cause grey arrows to appear on the end of the lines of the modules, just beyond the information lights.

Pressing any of the lines, will cause an information window to open up, which will show you the Type of Module, Serial Number, Software Version and CAN Loader Version of the selected module.

In the example given on the right, the information has been left blank.

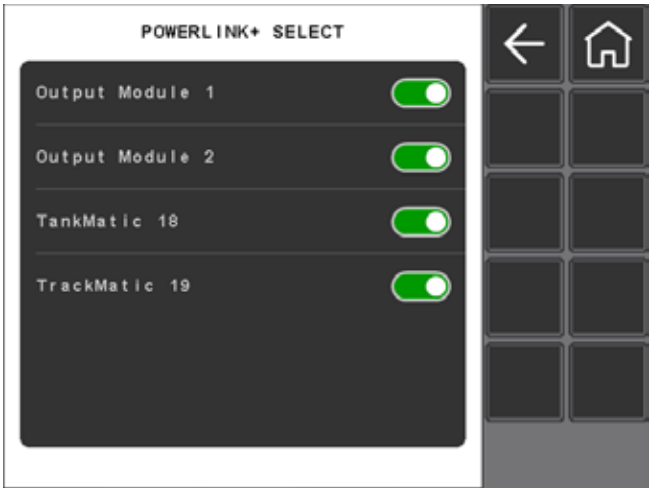
If any of these fields are blank on your system, there may be an issue with either your allocation or with the module itself.

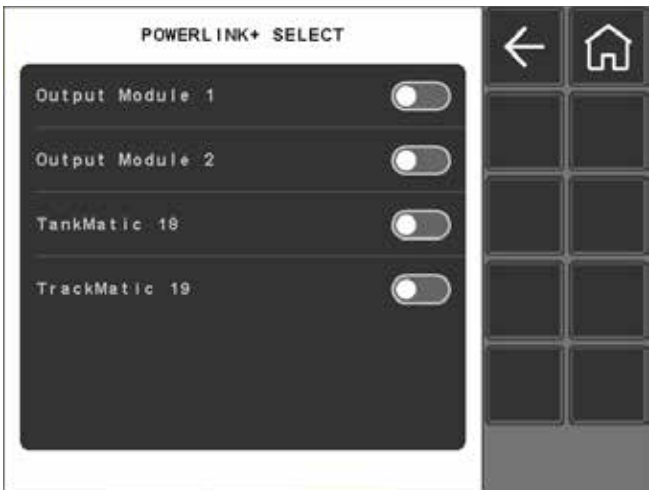


Select Key

Pressing the “Select” key, causes toggles to appear on the lines of your modules.

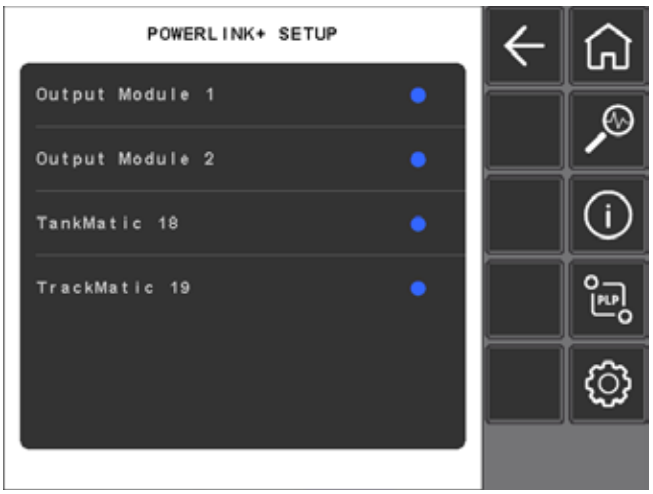
As you can see in our example, and likely also on your system, if it is a new installation, all of the toggles are turned ON.





If you choose to turn OFF a single or multiple toggles, the module you will have toggled OFF, will be de-selected, as you can see in the last image on the right.

De-selecting a module, is an easy way of electronically disconnecting a module, without actually having to physically disconnect it. This is mainly used as a diagnostic tool, or if you have a module troubling you, but don’t currently have the opportunity to change it.



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