

BOOM CONTROL UPDATE

This document explains how to use the kit (P/N KT10111) to update the IBC (Integrated Boom Control) software to fix inadvertent boom movement. These instructions guide you through the workflow of the update:

- 1. Install the updater application on a laptop computer.
- 2. Connect the laptop to the boom control on the tractor through the TERM connector.
- 3. Start the software update from the laptop to the boom control.
- 4. When updated, disconnect the boom control from the laptop.

INSTALLING THE APPLICATON ON A LAPTOP

You will install the program updater once for all the IBC units you will update.

- 1. Download the files for the updater:
 - a. On a laptop, log in to: https://diamondmowers.com/ibc-software-update/
 - b. Click <u>Download Files Here</u>.
 - c. On the browser page that opens, click **Download**.

The **PROGRAM_UPDATE.zip** file downloads to your laptop.

2. Extract the zip file: right-click the file and then click **Extract All** or use a utility such as 7-Zip.



3. When the file extracts, it creates a new folder called **PROGRAM_UPDATE**. Double-click it.



4. Double-click **INSTALLER**.

Name	Date modified	Туре	Size
can_driver_installation_peak	12/12/2023 12:53 PM	File folder	
connectors	12/11/2023 4:17 PM	File folder	
devices	12/11/2023 4:17 PM	File folder	
flash_3cs	12/12/2023 9:08 AM	File folder	
tool	12/12/2023 12:51 PM	File folder	
utilities	12/11/2023 A-17 DM	File folder	
INSTALLER	12/12/2023 12:54 PM	Shortcut	2 KB
UPDATER	12/12/2023 12:55 PM	Shortcut	2 KB

5. A window opens and shows: Do you want to allow this app to make changes to your device? Click **Yes**.

The setup wizard opens, to install the updater program.

6. In the setup wizard, click **Next**.

Welcome to the PCAN-Developer 4 Redistributable Setup Wizard
The Setup Wizard will install PCAN-Developer 4 Redistributable on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.
< Back Next > Cancel

7. Click I accept the terms in the License Agreement and then click Next.

PCAN-Developer 4 Redistributable Setup End-User License Agreement	EVK
Please read the rollowing license agreement carefully	System
PCAN-Developer 4 Redistributable	^
PEAK END USER SOFTWARE LICENSE AGREEMENT	
This PEAK End User Software License Agreement ("Agreement" between "You" (either an individual or an entity), the end user, and PEAK-System Technik GmbH ("PEAK"). This Agreement authoriz You to use the Software identified above, selected by You and defi in <u>Clause 1</u> below which may be stored on and delivered to you via)is es ined a v
\odot I accept the terms in the License Agreement	
$\bigcirc I$ do not accept the terms in the License Agreement	
< Back Next >	Cancel



8. Click **Install**.

🙀 PCAN-Developer 4 Redistributable Setup			×
Ready to Install		- 31 m	
The Setup Wizard is ready to begin the PCA Redistributable installation	N-Developer ·		System
Click "Install" to begin the installation. If yo installation settings, click "Back". Click "Can	u want to revi cel" to exit the	iew or change any of wizard.	your
	< Back	Install	Cancel

9. The setup completes in seconds. Click **Finish**.

📅 PCAN-Developer 4 Redist	ributable Setup	×
PEAK	Completing the PCAN-Developer 4 Redistributable Setup Wizard	
	Click the "Finish" button to exit the Setup Wizard.	
	<back cancel<="" finish="" td=""><td></td></back>	



CONNECTING THE MACHINE TO THE LAPTOP

On the back of the tractor, the IBC harness is near the manifold. You will connect the harness TERM connector to the laptop.

1. Find the **TERM** connector. Its plug label is: DO NOT REMOVE.



2. Squeeze the tab and pull to remove the TERM connector from the DO NOT REMOVE plug:





3. Open the kit. Plug the TERM connector into the provided programming harness. Plug the USB connector into the laptop.





UPDATING IBC SOFTWARE ON A TRACTOR

You will start the update on the laptop. The software will go to the IBC system on the tractor.

1. On the laptop, in the **PROGRAM_UPDATE** folder, double-click **UPDATER**.

Name	Date modified	Туре	Size
can_driver_installation_peak	12/12/2023 12:53 PM	File folder	
connectors	12/11/2023 4:17 PM	File folder	
devices	12/11/2023 4:17 PM	File folder	
flash_3cs	12/12/2023 9:08 AM	File folder	
tool	12/12/2023 12:51 PM	File folder	
utilities	12/11/2023 4:17 PM	File folder	
	12/12/2023 12:54 DM	Shortcut	2 KB
DPDATER	12/12/2023 12:55 PM	Shortcut	2 KB
UPDATER	12/12/2023 12:55 PM	Shortcut	2 KB

2. In the application that opens, in the top left, click **SYSTEM COMMISSIONING**.

MAIN	Save Project	
SYSTEM DEFINITION SYSTEM	SYSTEM COMMISSIONING > VIEW #1 - NewView Setup	/
 VIEW #1 Setup Update Dashboards + Add View 	ESX_3CS NewCANBus	

3. On the left side, click **Update**.



6				
MAIN		Save Project		
-	<u>iılı</u>	SYSTEM COMMISSION	NING > VIEW #1 - NewView	v Update
SYSTEM DEFINITION	SYSTEM COMMISSIONING	:. Enter Update Mode	↓ Update System	Exit Update Mode
VIEW #1 - I	NewView Add View	UPDATE PACKA #1 - ESX_3CS	GRESS LOG	Disconnected
		✓→ Data Blocks	(2) 👻	00/
		#1 - runtime	1 00r0	

4. Connect the provided harness to the tractor and turn on the tractor and the attachment.

Save Project		\odot
		data
STSTEW CONNISSI		uate
M : Enter Update Mode	↓ Update System	Exit Update Mode
ONING	IE PROGRESS LOG	**
UPDATE PACKAGE (1)	₹

5. On the laptop, click **Update System**.

The first time you use this application on this laptop, a confirmation message shows. Click Yes.
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7. In the Create Network window, click **OK**.



8. Wait for the update to complete (one minute or less). The percentage label on the bottom right will become a green checkmark. Click **Exit Update Mode**.

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	System Update		
~	Entering update mode Get status from ESX_3CS	ок	
N.	Update mode activated.		
	Updating System Update ESX_3CS System Update successful!	ОК	
DATE FACIA		S	ystem Update successful!
#1 - ESX_3CS			\frown
Data Blocks	(2) 👻		$\left(\right)$
	1_00r0		
#1 - runtime			
 #1 - runtime Jesx_3cs_codesys.hex #2 - PART_NUMBER J1001169_12.hex 	V1.00r0		



COMPLETING THE UPDATE

1. On the tractor, unplug the programming harness from the TERM connector and plug the TERM connector back into the DO NOT REMOVE plug. **This is necessary for the machine to work properly!**







2. Apply the new label to the Controller.



To update more than one machine, repeat step 4 (Connect the provided harness to the tractor and turn on the attachment.) to the end.

3. When you complete the IBC updates on all relevant tractors, return the programming harness components to Diamond Mowers in the return package.