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Wired displays can be added to the system without an additional wire going back to the motor. It can be added between the HMI cable and the System Controller.

The CX motors have additional ports if an accessory needs to be connected to power. You will need to use the Bosch Diagnostic Tool 3 to enable and equip certain accessories like lights.

Integration for 3rd party computers with the Bosch Smart System is not available at this time.

	Connection:	Voltage
	Battery	36 V
	HMI	12 V
	ABS	12 V
	High Power Port (HPP)	12 V
	Speed sensor	3.3V/min. 3.1V
	Low Power Port (LPP)	12 V
	Front light	12 V
	Rear light	12 V



Scan the QR Code to the right to go to the downloads area of the Bosch website where you can find manuals and assembly instructions for all bosch accessories.



[Bosch Downloads](#)





INTUVIA 100

Currently the easiest display to integrate with the Shuttle AM is the Intuvia 100 because it can be added wirelessly via Bluetooth.

The smart
system

The Intuvia 100 on-board computer is designed to display cycling data on an eBike from the system generation the smart system. To access the full functionality of the eBike and the Intuvia 100 on-board computer, you will need a compatible smartphone installed with the eBike Flow app.



Select the preferred display holder and mount it on the bike in the preferred location.

Connecting the Intuvia 100 to the eBike system can be done with the eBike Flow app or with the Diagnostic Tool 3.

Follow the instructions from Bosch for pairing with the app or with the Diagnostic Tool 3.

Scan the QR Code below to go to the downloads area of the Bosch website where you can find manuals and assembly for all bosch accessories.



Bosch Downloads

ADDING A WIRED DISPLAY TO THE SHUTTLE AM



To add a wired display to the system you will need an additional wire to connect all components. Below is a figure of how to chain the display into the system between the drive unit and the system controller.



The things you will need to add a wired display to the system are: Display, Display Holder, Interface, and HMI cable.

Some displays come as a kit with all the necessary items or you can purchase the items individually for customization for handlebar and mounting location. Find all the options when you login to QBP.

There are different display interfaces for different mounting orientations for the wire plugs. Make sure you have the correct interface to go with the preferred display mounting position.

Front Interface



Front Interface



Rear Interface





Here is an example of the parts you would need to install a Kiox 300 behind the handlebar on the NDS.

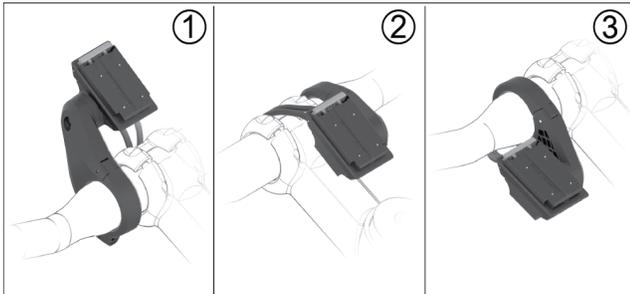
Component	Bosch Part Number	QBP Part Number
Kiox 300 Display	EB13.100.003	EP1665
Display Holder 35.0mm	EB13.100.006	EP1667
Interface Front Plug	EB13.100.009	EP1668
Display Cable	EB12.120.00A	EP1607

If you are going to mount the display out in front of the handlebar here are the parts.

Component	Bosch Part Number	QBP Part Number
Kiox 300 Display	EB13.100.003	EP1665
Aftermarket Kit Display Holder	EB13.900.011	EP1339

INSTALLATION

1. Install the display holder on the frame in the desired orientation according to Bosch's instructions.



2. Choose an unused cable port cover near the head tube that best suits routing the cables to the display to be replaced with a dual cable port cover.



3. Remove the System Controller from the frame



4. Disconnect the HMI cable from the Controller.





5. Route the HMI cable out the cable port.
**Remove any necessary housing foam.*



6. Extend the HMI cable out of the frame and route it to the display.



7. Connect the HMI cable from the motor to the display.



8. Connect the second HMI cable to the display to route it back to the system controller.



9. Route the HMI cable out the cable port.
**Remove any necessary housing foam.*

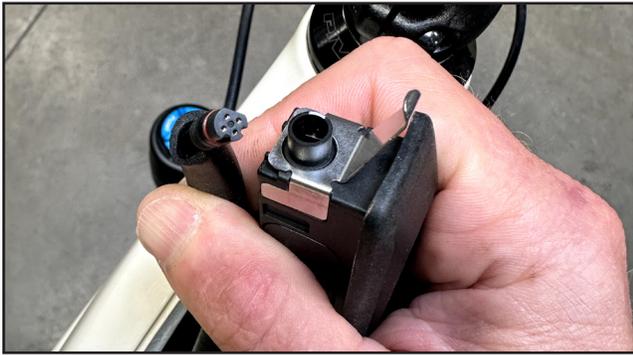


10. Reinstall the cable port cover loosely after the cables are routed.





11. Connect the HMI cable back to the Controller. Lining up the markings on both.



12. Reinstall the System Controller, unless you are using the Diagnostic Tool 3 to add the display not the app.



13. Check cable lengths and snug the cable port cover.

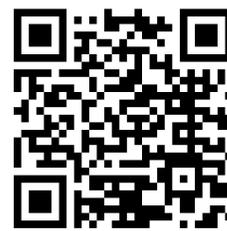


14. Mount the Display on the holder to pair.



15. Follow the instructions from Bosch to pair the Display to the System either with the eBike Flow App or using the Bosch Diagnostic Tool 3.

Scan the QR Code to the right to go to the downloads area of the Bosch website where you can find manuals and assembly instructions for all bosch accessories.

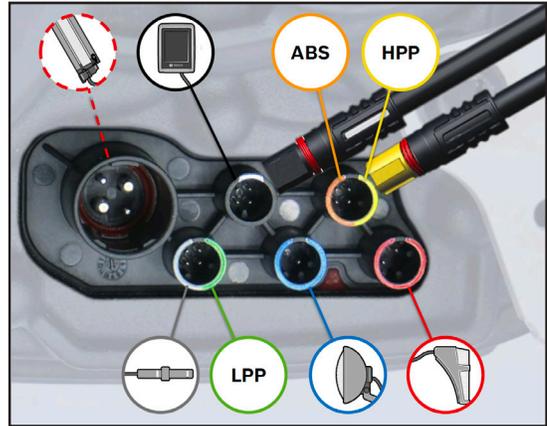


Bosch Downloads



The Performance Line CX Motors have multiple color-coded power ports that can be enabled. The blue port is designated for headlights and the red port is for a rear light. The Performance Line CX motors have a max output of 12v and 1500mA. The max wattage is ~18 watts. Before purchasing any lights check the power requirements for the lights and that they are compatible with the Smart System.

	Connection:	Voltage
---	Battery	36 V
---	HMI	12 V
---	ABS	12 V
---	High Power Port (HPP)	12 V
---	Speed sensor	3.3V/min. 3.1V
---	Low Power Port (LPP)	12 V
---	Front light	12 V
---	Rear light	12 V



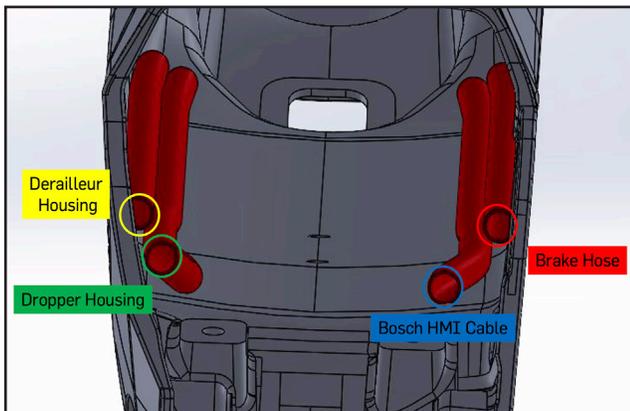
*NOTE: There is a safety requirement programmed in the motor that the lights have 2 hours of power based upon energy consumption. The range of assist will be reduced to save power to run the lights. If lights are enabled this is not applied, only if the lights are set to equipped. This power saving for lights will happen even if lights are not connected as long as equipped is selected.

INSTALLATION

To route your lights cable back to the power on the drive unit, you will want to remove the drive unit. This makes routing easier and allows for safely routing the wire around the drive unit. [Follow our step by step instructions for drive unit removal and installation.](#)

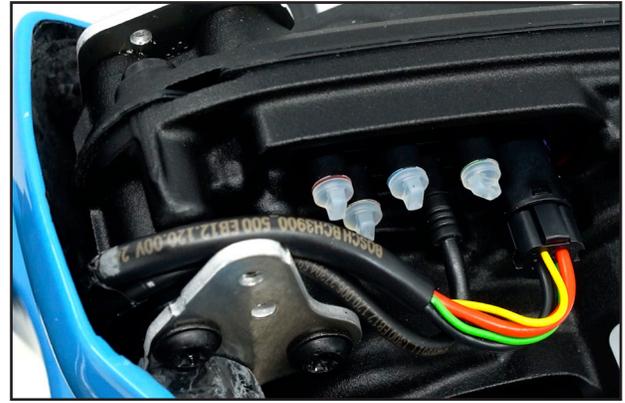
Follow the assembly and installation instructions from the light manufacturer and Bosch.

1. On builds with wireless shifting the lighting cable can be run in the Derailleur Housing guide tube. For cabled shifting, the wire can run down the side of the battery along the guide tubes.
2. Remove the cable port cover near the head tube that best suits routing of the headlight. This can go through an empty port or along an existing cable replaced with a dual cable port cover.

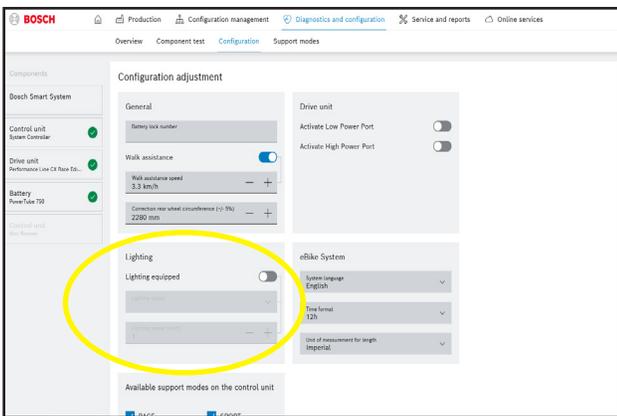




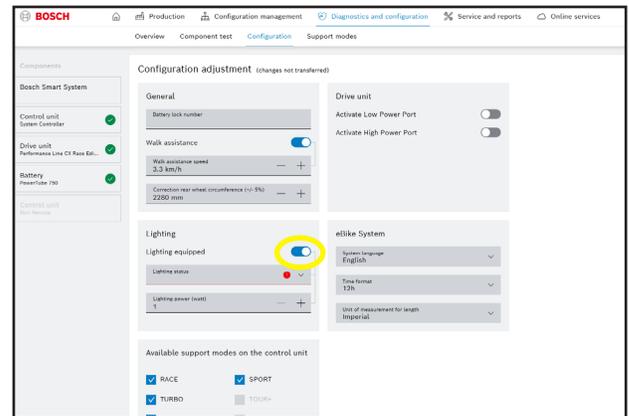
3. Route the lighting cable along the other wires connecting to the motor.



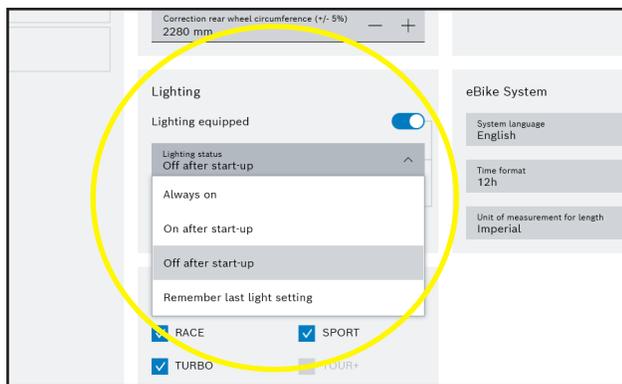
4. Remove the plug from the port and install your lighting cable into drive unit.



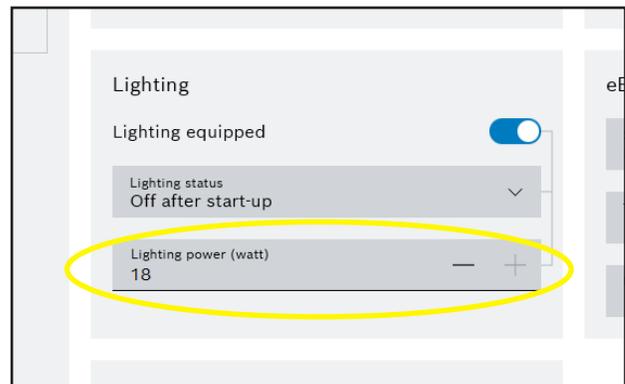
5. Connect the Shuttle AM to the Diagnostic Tool 3 and navigate to configuration.



6. Under lighting slide lighting equipped to on.
**If Lighting equipped can not be turned on, request a configuration change for lighting to be enabled.*



7. Select the lighting status from the drop-down menu for the setting you would like.

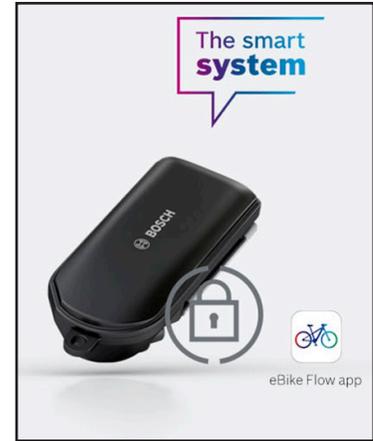


8. Select the Lighting power from 1-18 Watts.

The Lighting power setting will affect the amount of battery power that is saved in reserve to run the lights. The more the output the more battery that will be reserved to run the lights. To have full access to the battery capacity lights need to be not equipped. If lights are only used seasonally, toggling equipped on and off can give full battery access for when riding without lights.



Install the ConnectModule on a Shuttle AM, Subscribe to Flow+ and get access to the eBike Alarm premium service. As soon as you switch off your eBike, eBike Alarm will activate automatically, giving your eBike better protection against theft. This unit disables the assist of the bike to anyone but the owner. It provides motion detection and GPS tracking along with its audible and visible alarm functions.



1. Remove the skid plate to access the motor connections.



2. With access to the wiring connections follow the installation and setup for the ConnectModule.



Scan the QR Code below to go to the downloads area of the Dealer Portal where you can find manuals and assembly instructions for the Connect Module.



ConnectModule Resources