

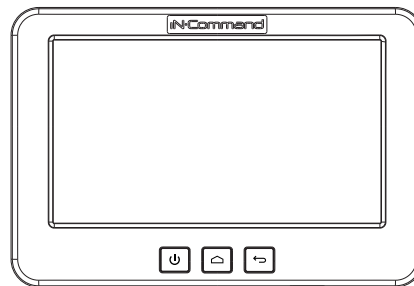
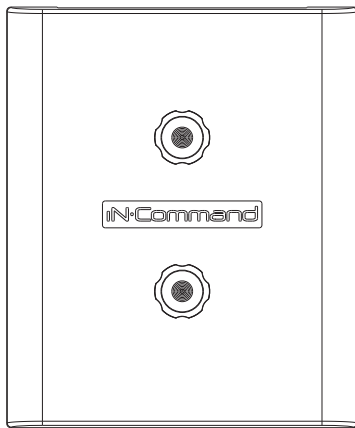
# iN·Command<sup>®</sup>

CONTROL SYSTEMS

## JRVCS1

*RV CONTROL AND MONITORING SYSTEM*

### Installation and Operation Manual



Patent # (D776,068)  
Patent # (D762,644)  
Patent # (9,679,635)



## Important Safety Information



Read the iN-Command Manual, and these warnings and instructions carefully before using this product. Failure to follow the use instructions in this owner's manual, or improper use of the Mobile Application, Display Commander and/or Body Control Module, could result in personal injury, including death.

**Do not operate while vehicle is being driven.** The Mobile Application, Display Commander and/or Body Control Module should not be used while the vehicle is being driven. Use of the Mobile Application, Display Commander and/or Body Control Module while the vehicle is being driven is dangerous and may cause personal injury or property damage.

**For adult use only.** The Mobile Application, Display Commander and Body Control Module are intended for adult use only, and are not to be used by persons under the age of 18. Use by children may cause personal injury or property damage.

**Operate only when you have a clear line of sight.** Do not operate any moving parts (including, but not limited to, awnings, jacks and slides), unless you have a clear line of sight to the moving part. The Mobile Application, Display Commander or Body Control Module may be used only if you are giving instructions to, and receiving instructions from, another person at least age 18 or older who can clearly see the moving part. Failure to follow these instructions may result in serious personal injury or property damage.

**Do not operate under the influence of alcohol or drugs.** Do not operate the Mobile Application, Display Commander or Body Control Module while under the influence of alcohol or drugs. Doing so may result in personal injury or property damage.

**Avoid moisture.** To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

**Use recommended accessories.** To reduce the risk of fire or electric shock and annoying interference, use only the recommended accessories.

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## • INTRODUCTION

### • Thank You!

Thank you for choosing a iN-Command product. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new iN-Command system for maximum enjoyment.

### • Features

Features of iN-Command system include:

- Simultaneous control by up to three Android Devices and one iOS Device
- Control four zones of Interior Lighting
- Control three zones of Exterior Lighting
- Monitor all water and fuel tank levels
- Control and monitor the Water Heater (switches between LP, AC, or both)
- Control and monitor the Water Pump
- Control and monitor the Generator (including all faults)
- Control Awnings & Awning Lights
- Control Electric and Hydraulic Slides
- Control Jacks (non-automatic function)
- 8 Programmable Auxiliary 12V Triggers
- Monitor Battery Voltage with Low Voltage Alert

### • Precautions

#### • Use the Proper Power Supply.

This product is designed to operate with a 12 volt DC, negative ground battery system (the standard system in a North American vehicle).

#### • Use Authorized Service Centers.

Do not attempt to disassemble or adjust this precision product; contact a professional for assistance.

#### • Avoid Moisture.

To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

#### • Avoid Cleaning Products.

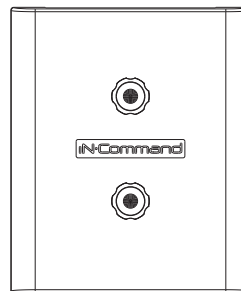
The front of this unit should only be cleaned with a slightly damp cloth. Do not use cleaning products.

#### • Use Recommended Accessories.

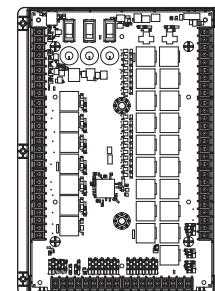
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

## • Packing List

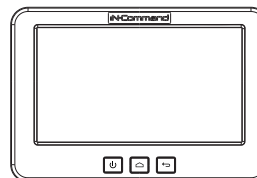
(1) Cover, (2) Thumb Screws



(1) Body Control Module (BCM)



(1) Display Commander (DC)



## • INSTALLATION

It's a good idea to read all of the instructions before beginning the installation.

### • Tools and Supplies

You will need these tools and supplies to install your iN-Command:

- Phillips screwdriver
- #2 square drive bit
- Wire cutters and strippers
- Electrical tape
- Volt meter/test light
- Crimping tool
- Fork Crimp connectors
- 10 gauge wire for power and slide connections
- 14 and 18 gauge wire for all other connections
- Four #8 PH (0.164" x 0.75") screws for the DC
- Six #8 PH (0.164" x 1.0") screws for the BCM

### • Disconnecting the battery

To prevent a short circuit, be sure to turn off 12V power and remove the negative (-) battery cable prior to installation.

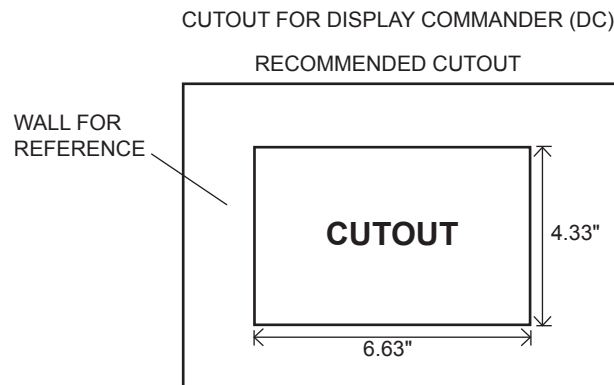
### • Selecting the Mounting Location

Select a mounting location, taking care to avoid the following:

- Places exposed to heat-radiating appliances such as electric heaters
- Adjacent to other equipment that radiates heat
- Poorly-ventilated or dusty places
- Moist or humid locations

### • Mounting the Display Commander (DC)

- Use the mounting hole diagram to measure and cut a mounting hole, allowing space below for future programming via USB drive
- Route power wires through the hole and connect
- Check and ensure correct operation
- Mount the unit using four #8 PH (0.164" x 0.75") screws
- Attach Trim ring



**NOTE:** Before cutting the mounting hole, make sure the area behind the mounting location is clear of wires, fuel and vacuum or water lines; ensure there is at least a 2.75" clearance below the Display Commander to allow for programming by USB stick.

## • WIRING

The wiring diagram depicts all the wiring connections required for proper operation of the unit.

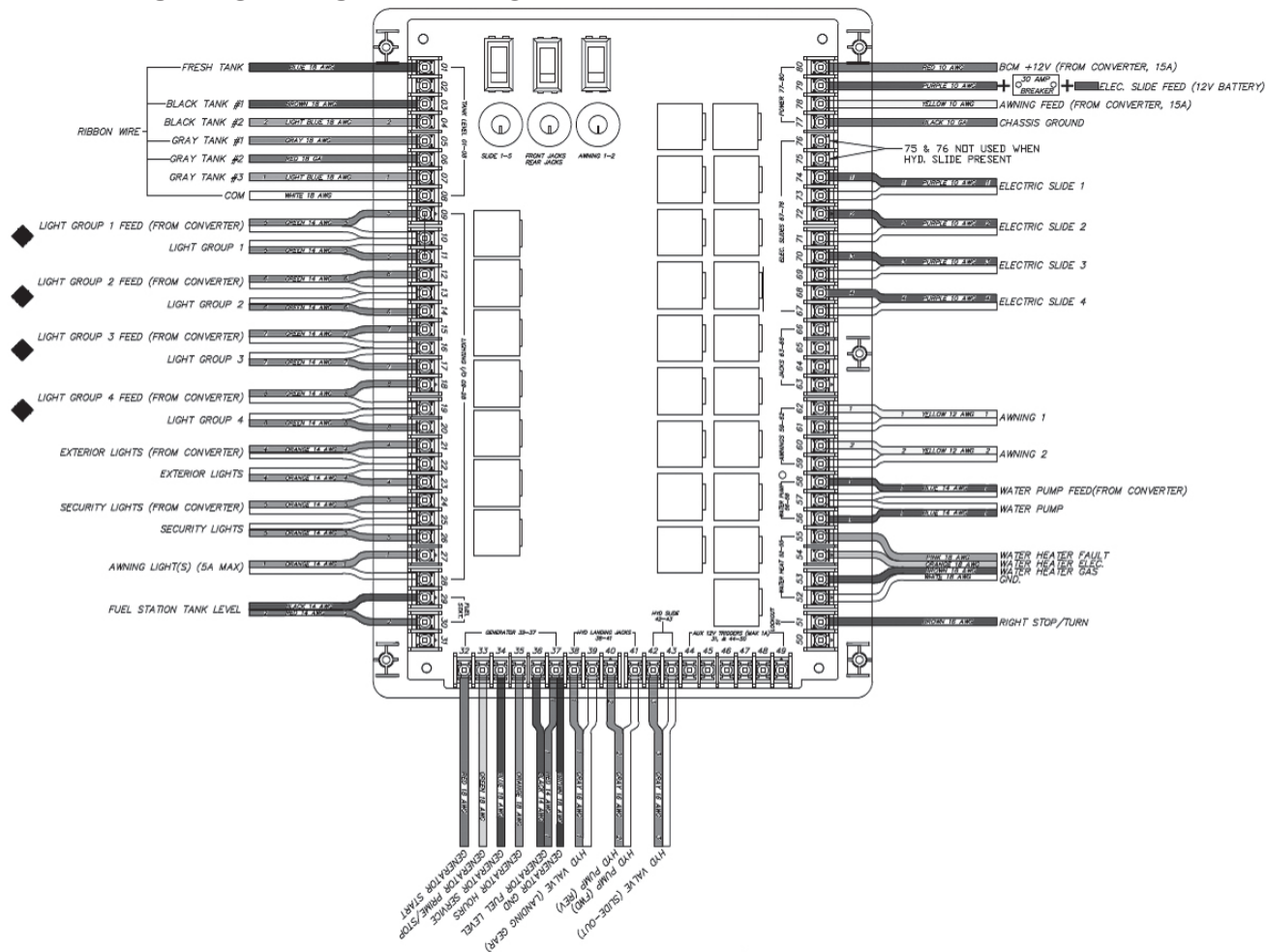
### BODY CONTROL MODULE (BCM) CONNECTIONS

PIN NO.	WIRE GAUGE	DESCRIPTION
1	18 AWG	FRESH TANK 1 (IN)
2		FRESH TANK 2 (IN)
3	18 AWG	BLACK TANK 1 (IN)
4	18 AWG	BLACK TANK 2 (IN)
5	18 AWG	GRAY TANK 1 (IN)
6	18 AWG	GRAY TANK 2 (IN)
7	18 AWG	GRAY TANK 3 (IN)
8	18 AWG	TANK COMMON 7V (OUT)
9	14 AWG	LIGHT GROUP 1 + (IN)
10	14 AWG	LIGHT GROUP 1 - (IN/OUT)
11	14 AWG	LIGHT GROUP 1 + (OUT)
12	14 AWG	LIGHT GROUP 2 + (IN)
13	14 AWG	LIGHT GROUP 2 - (IN/OUT)
14	14 AWG	LIGHT GROUP 2 + (OUT)
15	14 AWG	LIGHT GROUP 3 + (IN)
16	14 AWG	LIGHT GROUP 3 - (IN/OUT)
17	14 AWG	LIGHT GROUP 3 + (OUT)
18	14 AWG	LIGHT GROUP 4 + (IN)
19	14 AWG	LIGHT GROUP 4 - (IN/OUT)
20	14 AWG	LIGHT GROUP 4 + (OUT)
21	14 AWG	EXTERIOR LIGHTS + (IN)
22	14 AWG	EXTERIOR LIGHTS - (IN/OUT)
23	14 AWG	EXTERIOR LIGHTS + (OUT)
24	14 AWG	SECURITY LIGHTS + (IN)
25	14 AWG	SECURITY LIGHTS - (IN/OUT)
26	14 AWG	SECURITY LIGHTS + (OUT)
27	14 AWG	AWNING LIGHTS + (OUT)
28	14 AWG	AWNING LIGHTS - (OUT)
29	14 AWG	AUX FUEL TANK + (IN)
30	14 AWG	AUX FUEL TANK - (OUT)
31		AUX TRIGGER 1 (OUT)
32	18 AWG	GEN START +12V (OUT)

PIN NO.	WIRE GAUGE	DESCRIPTION
33	18 AWG	GEN PRIME/STOP +12V (OUT)
34	18 AWG	GEN SERVICE +12V (IN)
35	18 AWG	GEN HOUR METER +12V (IN)
36	14 AWG	GEN FUEL TANK LEVEL (IN)
37	14/18 AWG	GEN GROUND
38	16 AWG	LANDING GEAR +12V (OUT)
39	16 AWG	LANDING GEAR GROUND (OUT)
40	16 AWG	HYDRAULIC VALVE EXTEND
41	16 AWG	HYDRAULIC VALVE RETRACT
42	16 AWG	HYDRAULIC VALVE +12V
43	16 AWG	HYDRAULIC VALVE GROUND
44		AUX TRIGGER 2 (OUT)
45		AUX TRIGGER 3 (OUT)
46		AUX TRIGGER 4 (OUT)
47		AUX TRIGGER 5 (OUT)
48		AUX TRIGGER 6 (OUT)
49		AUX TRIGGER 7 (OUT)
50		AUX TRIGGER 8 (OUT)
51	16 AWG	LOCKOUT SIGNAL +12V (IN)
52	18 AWG	WATER HEATER GROUND
53	18 AWG	WATER HEATER ON (GAS)
54	18 AWG	WATER HEATER ON (ELECTRIC)
55	18 AWG	WATER HEATER FAULT
56	14 AWG	WATER PUMP +12V (OUT)
57	14 AWG	WATER PUMP -12V (IN/OUT)
58	14 AWG	WATER PUMP +12V (OUT)
59	14 AWG	AWNING 2 -12V (OUT)
60	14 AWG	AWNING 2 +12V (OUT)
61	14 AWG	AWNING 1 -12V (OUT)
62	14 AWG	AWNING 1 +12V (OUT)
63	10 AWG	REAR JACKS (OUT)
64	10 AWG	REAR JACKS (OUT)

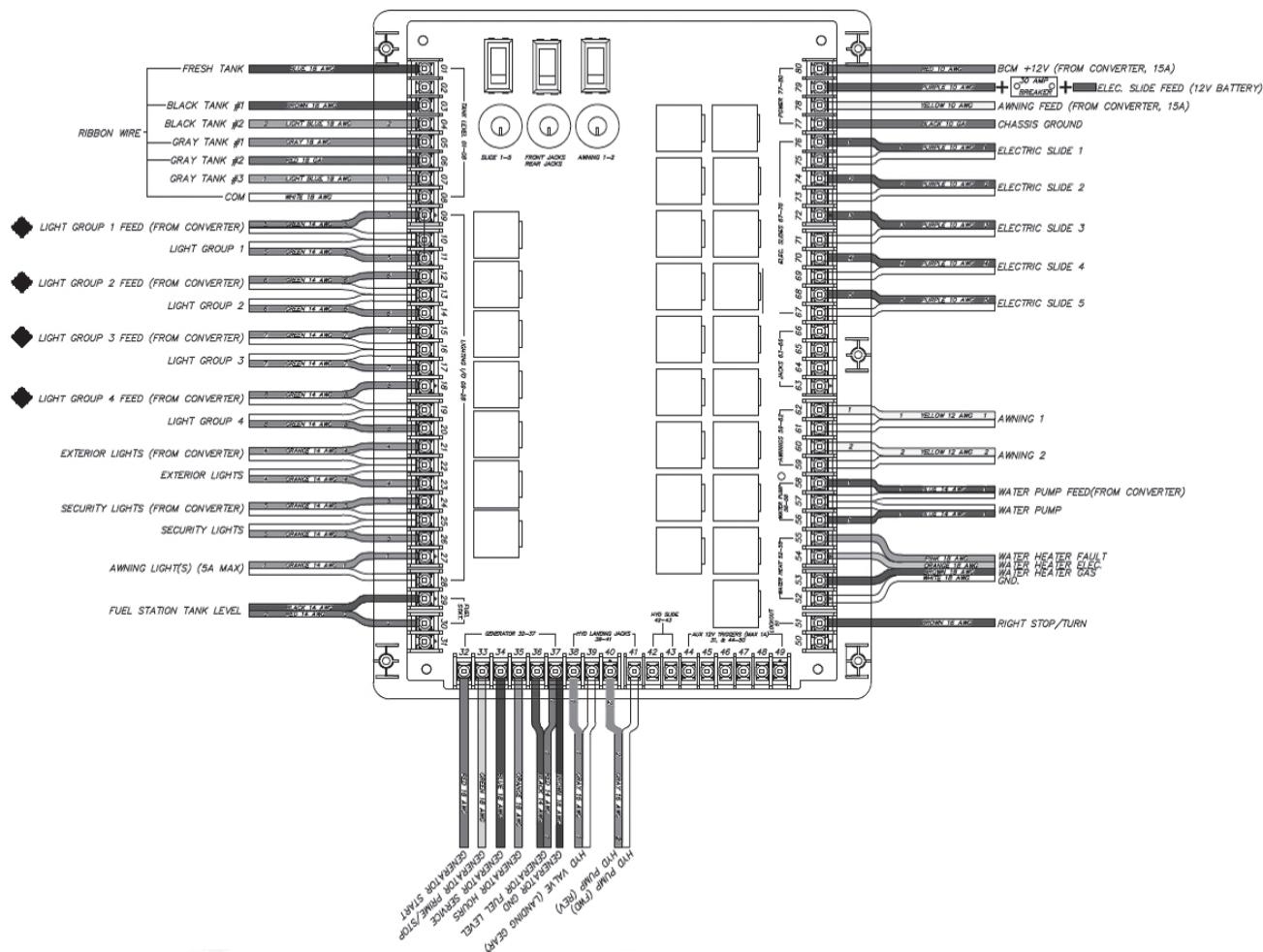
PIN NO.	WIRE GAUGE	DESCRIPTION
65	10 AWG	FRONT JACKS (OUT)
66	10 AWG	FRONT JACKS (OUT)
67	10 AWG	ELECTRIC SLIDE 5 -12V (OUT)
68	10 AWG	ELECTRIC SLIDE 5 +12V (OUT)
69	10 AWG	ELECTRIC SLIDE 4 -12V (OUT)
70	10 AWG	ELECTRIC SLIDE 4 +12V (OUT)
71	10 AWG	ELECTRIC SLIDE 3 -12V (OUT)
72	10 AWG	ELECTRIC SLIDE 3 +12V (OUT)
73	10 AWG	ELECTRIC SLIDE 2 -12V (OUT)
74	10 AWG	ELECTRIC SLIDE 2 +12V (OUT)
75	10 AWG	ELECTRIC SLIDE 1 -12V (OUT)
76	10 AWG	ELECTRIC SLIDE 1 +12V (OUT)
77	10 AWG	CHASSIS GROUND (IN)
78	10 AWG	AWNING +12V (IN)
79	10 AWG	ELECTRIC SLIDE +12V (IN)
80	10 AWG	BCM +12V (IN)

# • HYDRAULIC SLIDE UNIT WIRING





# • ELECTRIC SLIDE UNIT WIRING



## • SETUP MENU LIST

ITEM	SELECTION
Generator	No, Propane, Gasoline
Fuel Station	No, Yes
Fresh Water Tank 2	No, Yes
Black Water Tank 2	No, Yes
Gray Water Tank 2	No, Yes
Grey Water Tank 3	No, Yes
Awning 1	No, Yes
Awning 2	No, Yes
Hydraulic Slide Room	No, Yes
Electric Slide 1	No, Yes
Electric Slide 2	No, Yes
Electric Slide 3	No, Yes
Electric Slide 4	No, Yes
Electric Slide 5	No, Yes
Light Group 1	No, Yes
Light Group 2	No, Yes
Light Group 3	No, Yes
Light Group 4	No, Yes
Awning Light	No, Yes
Trigger 1	No, Momentary, Latch

Trigger 2	No, Momentary, Latch
Trigger 3	No, Momentary, Latch
Trigger 4	No, Momentary, Latch
Trigger 5	No, Momentary, Latch
Trigger 6	No, Momentary, Latch
Trigger 7	No, Momentary, Latch
Trigger 8	No, Momentary, Latch
Hitch	No, Electric,Hydraulic
Rear Landing Jacks	No, Yes

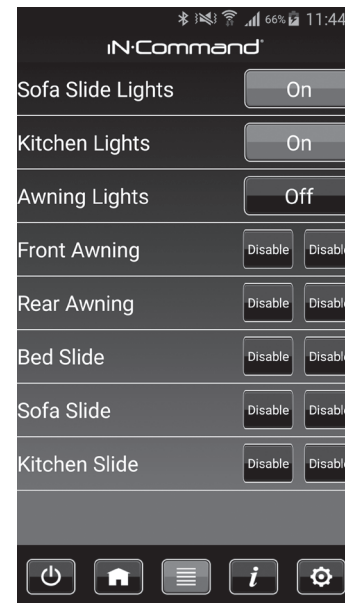
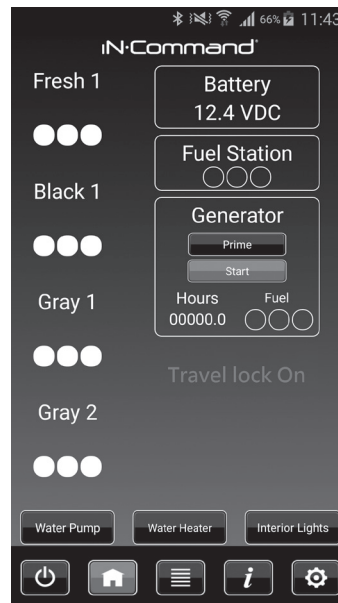
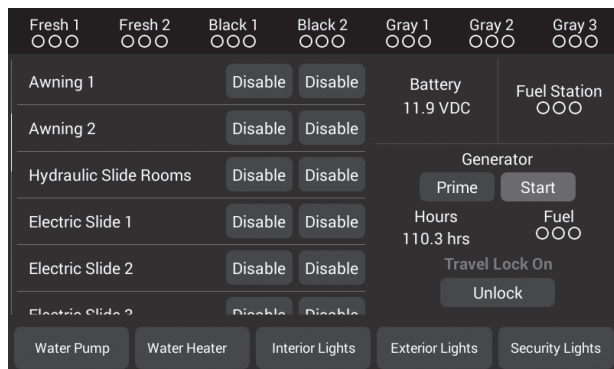
## • SAFETY LOCKOUT

iN-Command is equipped with a Safety Lockout feature to ensure certain system functions are unavailable during transit.

When the Brake Signal on the tow vehicle is activated, the iN-Command will lock down all motorized functions. The Display Commander and mobile devices will also display “Travel Lock On” in red letters and the affected buttons will cease to activate.

The lights, water pump, water heater, generator, and tanks sensors will continue to function.

To turn the Travel Lock off, the “Unlock” button on the Display Commander, inside the RV, must be pressed.

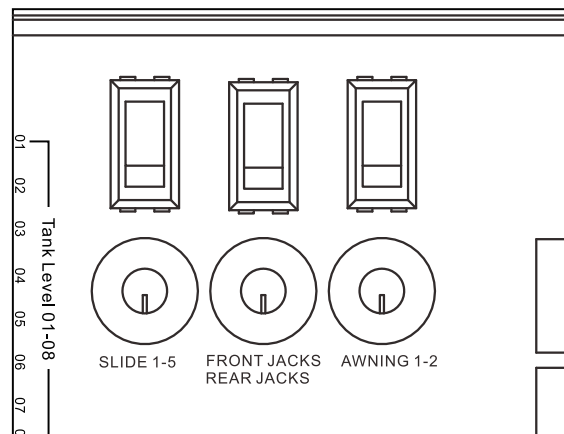


## • OVERRIDE SWITCHES

The Body Control Module has a bank of override switches. The rotary switches below each rocker switch correspond to an electric function\* made by the Display Commander. The switches on the left actuate electric slides, the middle set actuate electric jacks, and the right set actuate electric awnings.

To use the override switches, locate the switch needed to actuate the desired component. Rotate the switch underneath the rocker switch to select the motor. Press up or down on the switch. The switch is momentary and will activate the motor only while pressed in either direction.

**\* The hydraulic overrides are located on the hydraulic pump; consult the hydraulic pump owner's manual for more information.**



## • SPECIFICATIONS

### **Display Commander (DC)**

Operating Voltage . . . . .	12VDC
Maximum Current Draw . . . . .	1.5A@9VDC
Minimum Operating Voltage . . . . .	9VDC
Maximum Operating Voltage . . . . .	16VDC

### **Body Control Module (BCM)**

Operating Voltage . . . . .	12VDC
Maximum Current Draw . . . . .	8.5A@12VDC
Minimum Operating Voltage . . . . .	9VDC
Maximum Operating Voltage . . . . .	16VDC

### **JRVCS1 System**

EPROM Non-Volatile Memory . . . . .	YES
Bluetooth Version . . . . .	4.0 BLE

### **General**

Body Control Module . . . . .	14.9" (W) x 17.9" (D) x 1.8" (H)
Display Commander . . . . .	7.7" (W) x 5.2" (D) x 1.3" (H)

## • FCC Notes

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***WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.***

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***NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.***

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This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## • PASSCODE PROTECTION

A passcode is required to access the system.

On the first time use of the system, the user is required to enter and confirm a new passcode.

Confirm the new passcode.

## • MENU

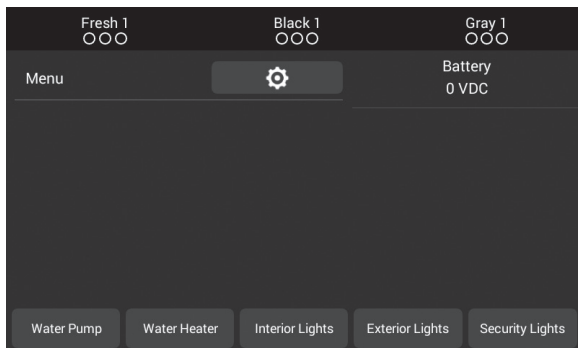
From the Menu screen you can:

- Edit iN-Command function text
- Reposition functions
- Enable/disable functions
- Change the switch properties (from momentary to latch)
- See the status of iN-Command
- Connect devices with Bluetooth
- Change the passcode
- Reset the floor plan
- Control the brightness of the DC screen
- And view iN-Command's legal documents and customer support information

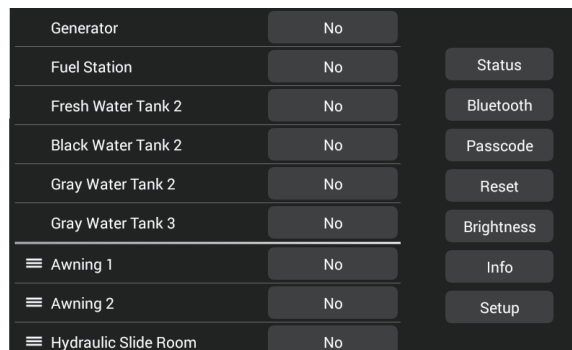
The Setup button is used by the manufacturer.

## • Text Editing

1. Select "Menu"

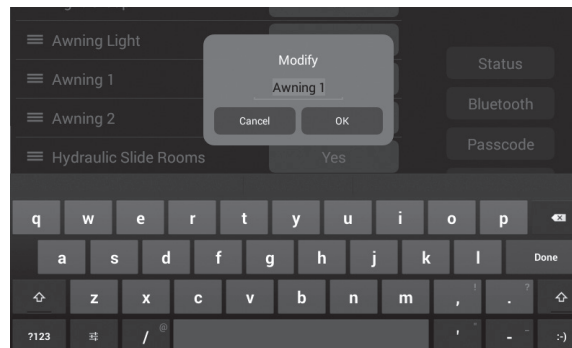


2. Long press the intended text, e.g., "Awning1".



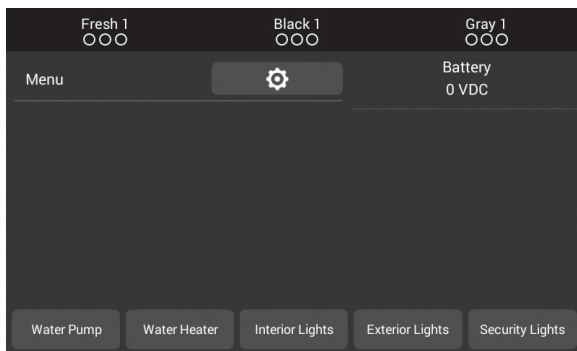
3. A device rename window will open. Press "OK" after completing the text editing.

**Note: Editing the text on the DC will not change the text on a device's app.**

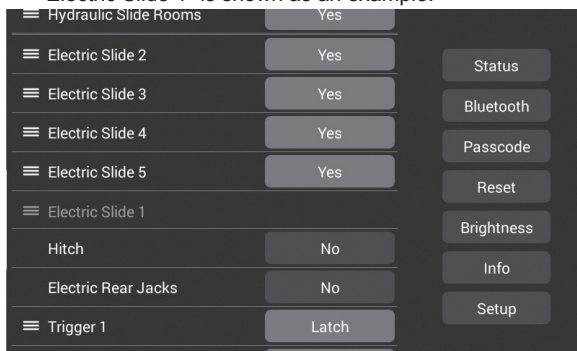


## • Scroll List Editing\*

1. Select “Menu”.



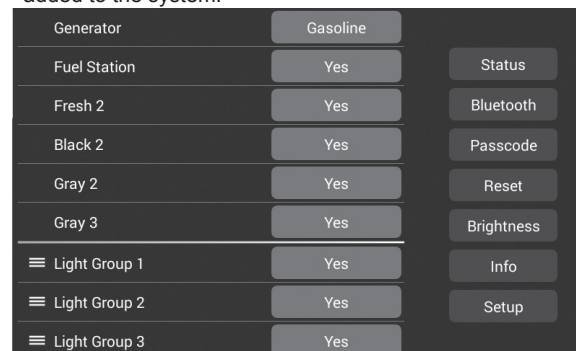
2. Press and hold the “≡” icon before the device name and drag to move the device to a new location, “Electric Slide 1” is shown as an example.



\* The iN-command system supports multiple functions. Functions can be added, but will require modification and or addition of external components, wiring, and plumbing.

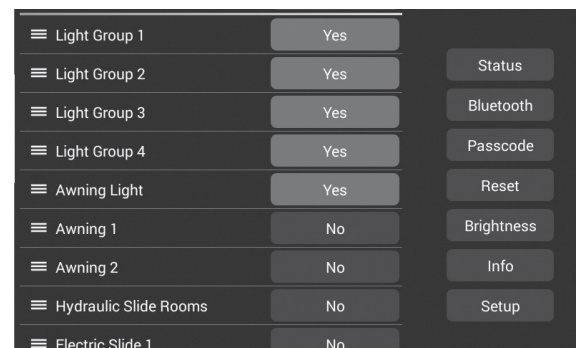
## • Tanks

Fresh water tanks, Black water tanks, and Gray water tanks can be added to the system.



## • Lights

Light Groups can be added to the system.





## • Slides

Slides can be added to the system.

≡ Hydraulic Slide Rooms	Yes	
≡ Electric Slide 1	Yes	Status
≡ Electric Slide 2	Yes	Bluetooth
≡ Electric Slide 3	Yes	Passcode
≡ Electric Slide 4	Yes	Reset
≡ Electric Slide 5	Yes	Brightness
Hitch	No	Info
Electric Rear Jacks	No	Setup
≡ Trigger 1	No	

## • Awnings

Awnings can be added to the system.

≡ Awning 1	Yes	
≡ Awning 2	Yes	Status
≡ Hydraulic Slide Rooms	No	Bluetooth
≡ Electric Slide 1	No	Passcode
≡ Electric Slide 2	No	Reset
≡ Electric Slide 3	No	Brightness
≡ Electric Slide 4	No	Info
≡ Electric Slide 5	No	Setup
Hitch	No	

## • Jacks

Jacks can be added to the system.

Hitch	Electric	
Electric Rear Jacks	Yes	Status
≡ Trigger 1	No	Bluetooth
≡ Trigger 2	No	Passcode
≡ Trigger 3	No	Reset
≡ Trigger 4	No	Brightness
≡ Trigger 5	No	Info
≡ Trigger 6	No	Setup
≡ Trigger 7	No	

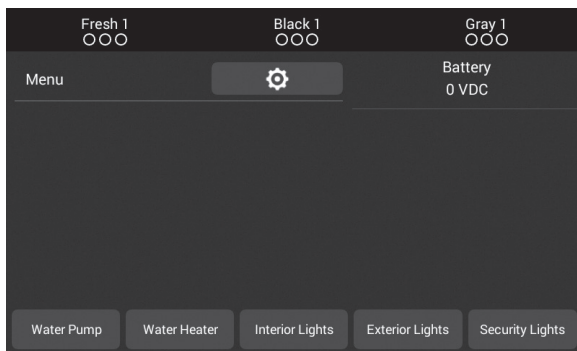
## • Triggers

Triggers can be added to the system. “Momentary” or “Latch” can be selected for each Trigger. Note: Desired devices need to be correctly wired to the BCM to function.

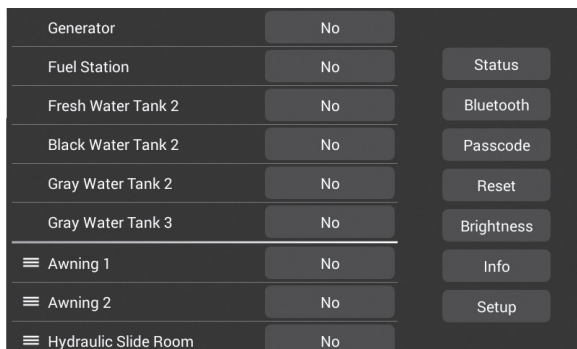
Electric Rear Jacks	No	
≡ Trigger 1	Latch	Status
≡ Trigger 2	Latch	Bluetooth
≡ Trigger 3	Latch	Passcode
≡ Trigger 4	Latch	Reset
≡ Trigger 5	Momentary	Brightness
≡ Trigger 6	Momentary	Info
≡ Trigger 7	Momentary	Setup
≡ Trigger 8	Momentary	

## • Passcode

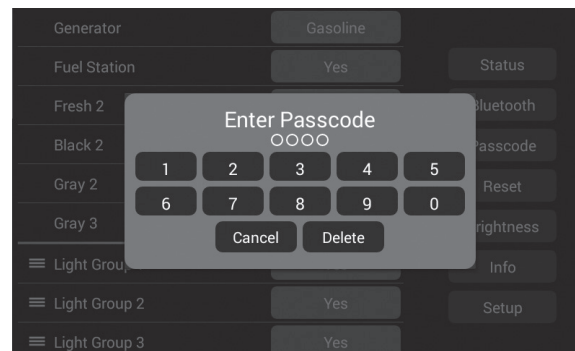
1. Select “Menu”.



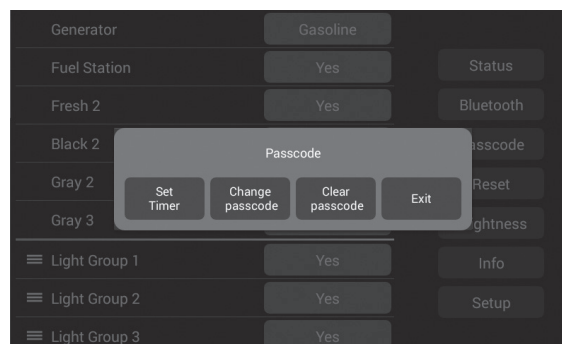
2. Press “Passcode” to enter passcode setup.



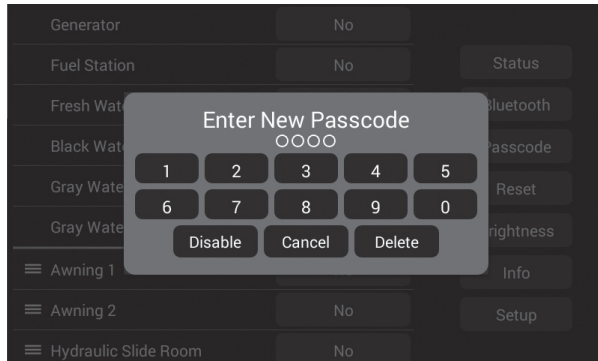
2.1 Enter the correct passcode to proceed.



3. The passcode setup window will open. (Passcode protection may be disabled by selecting Change Passcode then Disable).

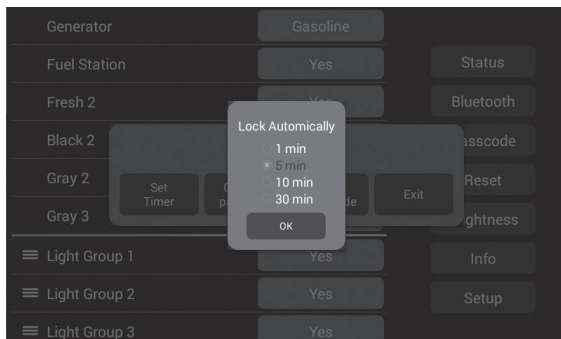


3.1 Passcode protection may be disabled by selecting Change Passcode then Disable.



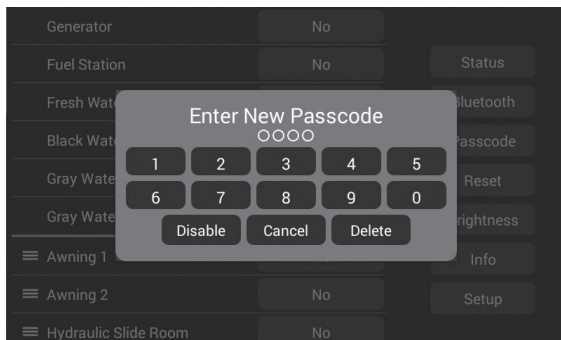
### • Set Passcode Timer

Press the “Set Timer” button to select the idle time to activate the passcode protection.

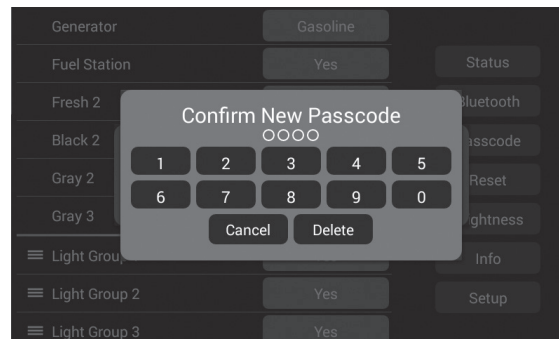


### • Change Passcode

1. Press the “Change Passcode” button to change to a new passcode.
2. Enter the new passcode.

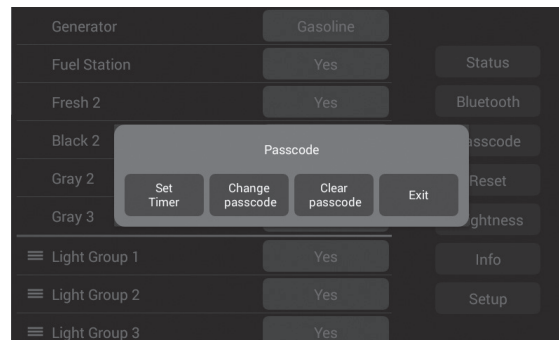


3. Confirm new passcode.



### • Clear Passcode

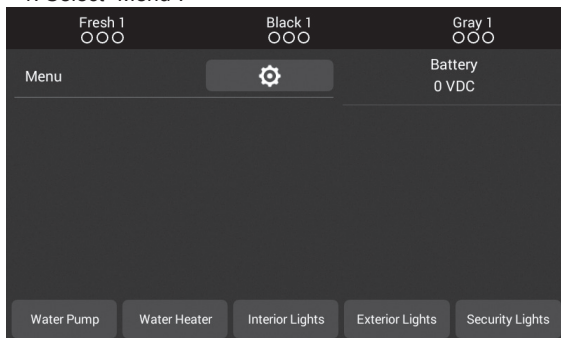
Press the “Clear Passcode” button to clear the passcode. This will restart the APP, take the user to the End-User License Agreement, and have the user setup a new passcode.



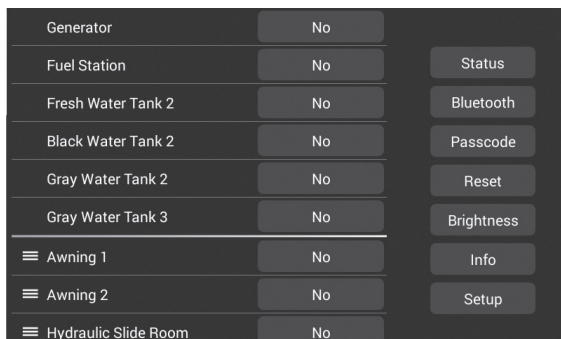
## • PAIRING INSTRUCTIONS:

### • Pairing DC to BCM

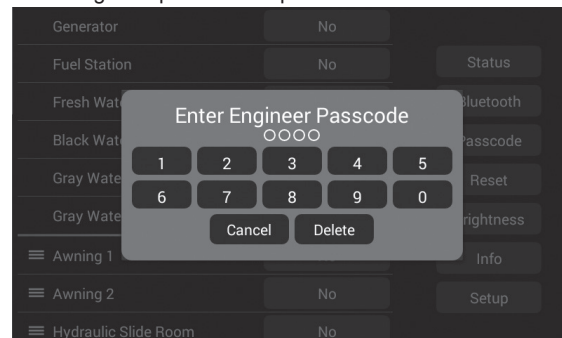
1. Select "Menu".



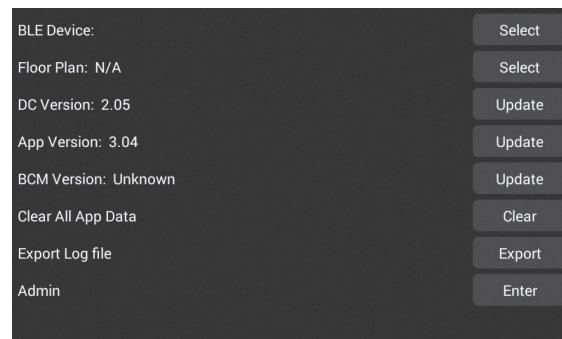
2. Select "Setup".



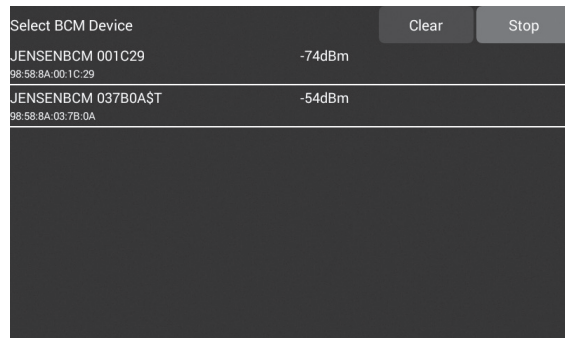
3. Enter engineer passcode to proceed.\*\*



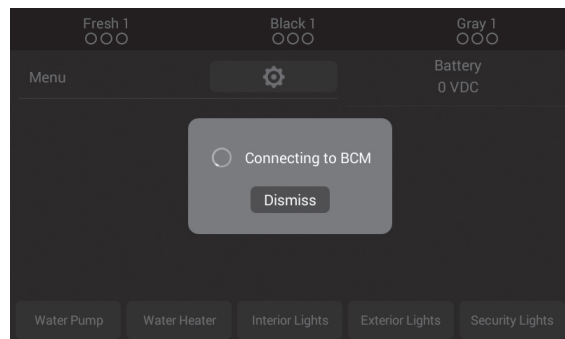
4. Currently, it shows no Bluetooth Low Energy device connected to this DC. Press the "Select" button across from the "BLE Device".



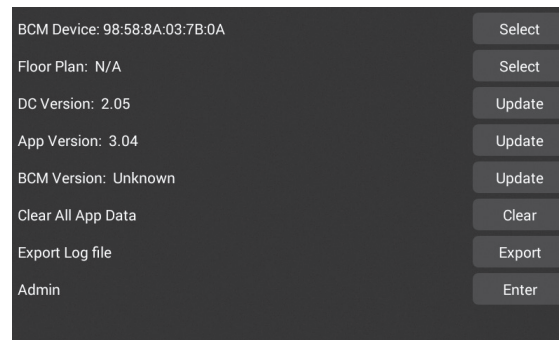
5. The DC will find and list all available devices.



6. Press the target BCM to connect, e.g., "iNCommandBCM 037B0A\$T".



7. The DC will automatically return to the previous page and show the paired BCM.



### • Pairing DC to BCM

BLE connection is activated by the DC. The BCM only needs to be powered on. There is no action needed from the BCM.

**\* Unless there is a communication issue the DC and/or BCM, the DC will already be paired to the BCM.**

**\*\* The Engineering Passcode is used by the manufacturer for programming and troubleshooting purposes. Should there be an un-pairing issue, call ASA Electronics Technical Support at 1-877-845-8750 or email them at [info@asaelectronics.com](mailto:info@asaelectronics.com).**

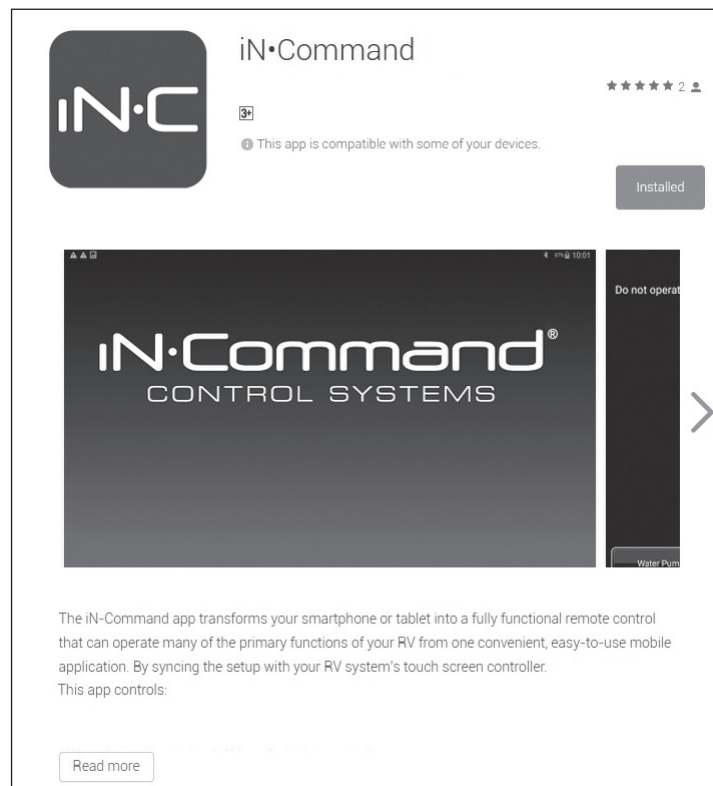
## • MOBILE DEVICES:

iN-Command is able to pair to Android and iOS devices using the iN-Command App.

Visit the Google Play and Apple App stores on your mobile device to check compatibility of your device.

Seven mobile devices are able to be paired to iN-Command at one time, but only 1 iOS and 3 Android devices are able to be **actively** paired; meaning, 3 Android devices and 1 iOS device can all actively control the iN-Command functions.

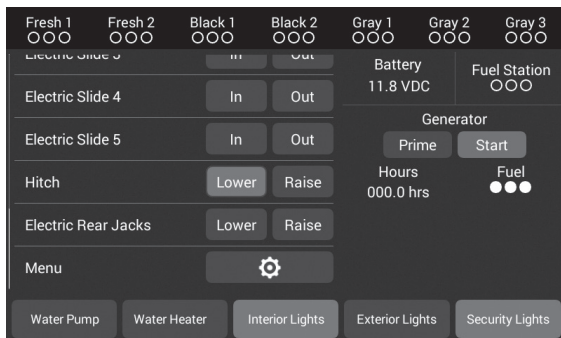
To use another device not actively paired to iN-Command, 1 device needs to shut down its iN-Command App to allow another device to actively pair. To do this simply select the power button on the App or shut down the App in the device's settings menu.



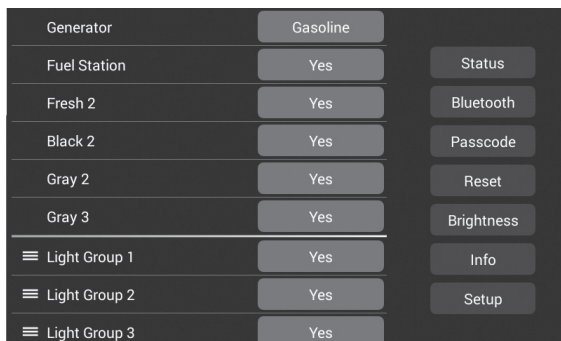
## • Pairing Mobile Device to DC

1. On the DC:

1.1 Select "Menu".



1.2 Select "Bluetooth".

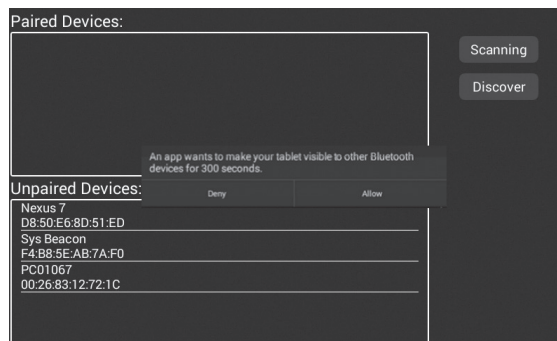


1.3 Currently, it shows no BT paired device connected to this DC.

Press the "Discover" button to activate the BT pairing mode.



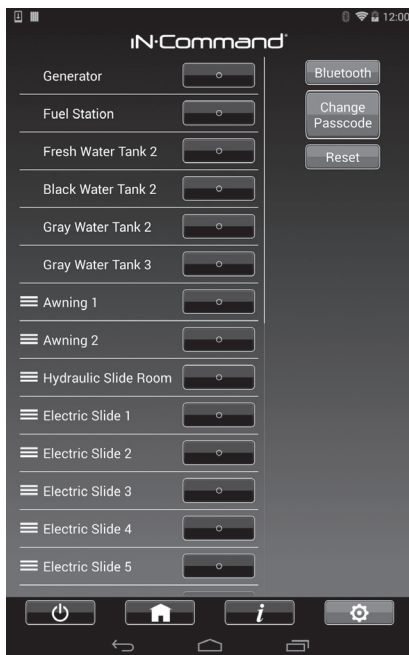
1.4 Press "Allow".



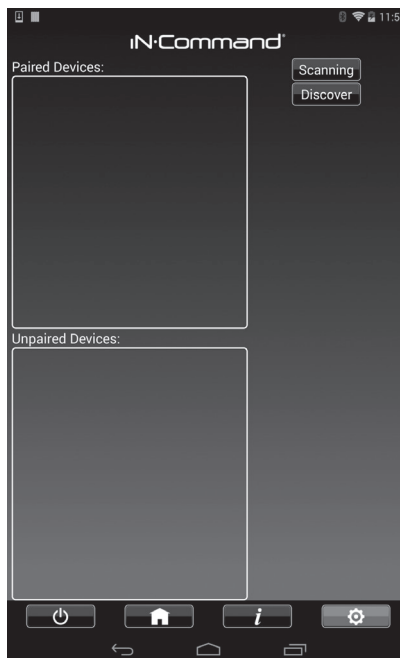


## 2. Android Mobile Device Pairing Steps:

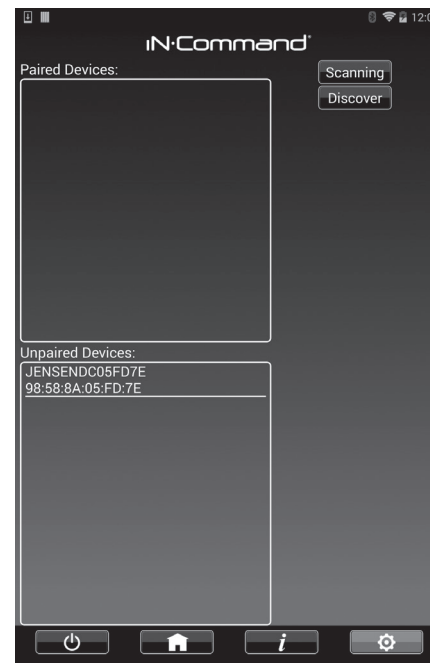
2.1 Press "Bluetooth" on the "Setup" page to find the DC device.



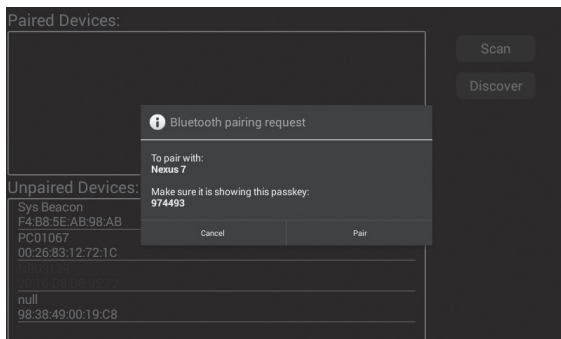
2.2 The Mobile APP will scan for the DC device.



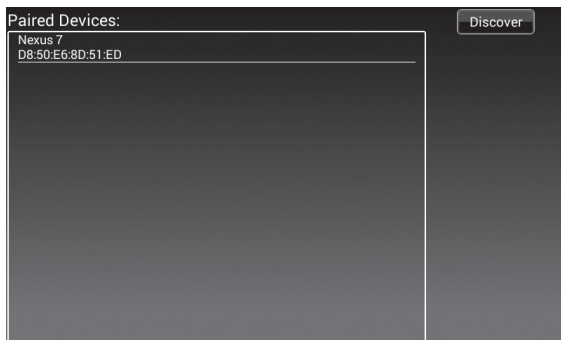
2.3 The DC will be displayed in the Unpaired Devices list in the format "JENSENDCXXXXXX". Press the DC device in the list to pair with it.



2.4 On the DC, a request message will appear. Press “Pair” to start the BT pairing and concurrently enter the same passkey on the Mobile device.

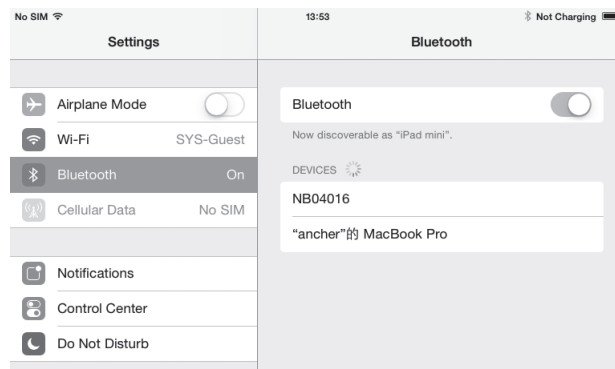


2.5 The DC now shows the Mobile device is paired.

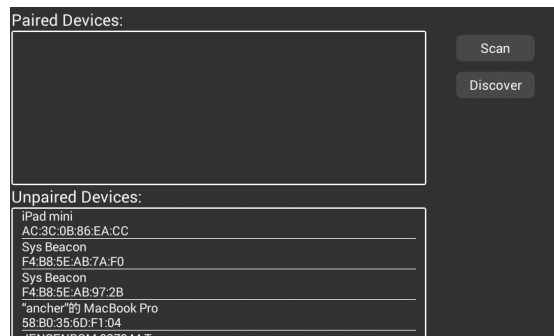


3. Apple Mobile Device Pairing Steps:

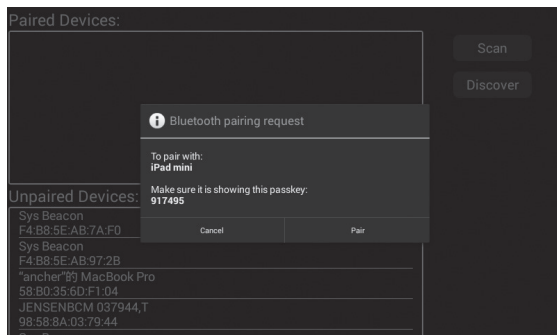
3.1 Enable “Bluetooth” in the system settings of Apple mobile device.



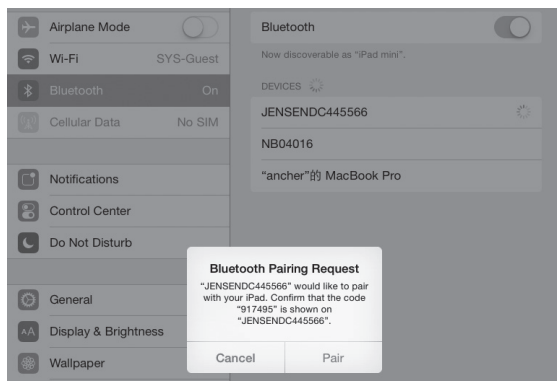
3.2 Press Scan on the DC Bluetooth page. Locate the Apple device in the Unpaired Device list. Select the Apple device by pressing it.



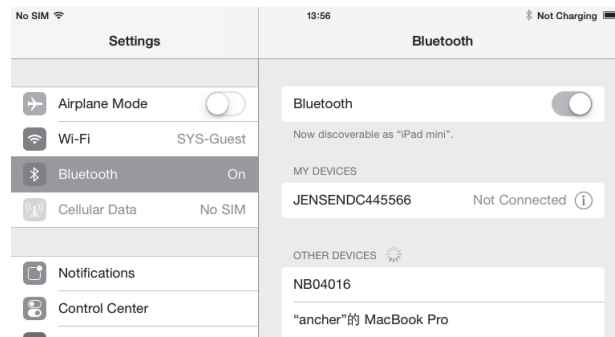
### 3.3 Press "Pair" in DC.



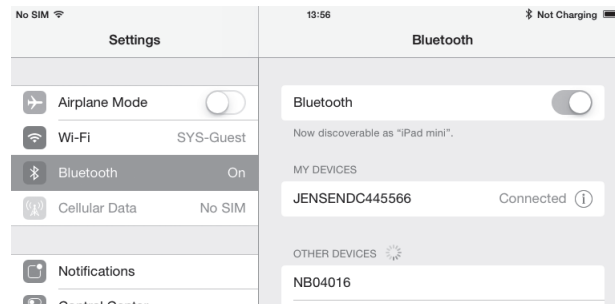
### 3.4 Press "Pair" in Apple mobile device.



### 3.5 The DC will be displayed in the MY DEVICES list in the format "JENSENDCXXXXXX". Press the DC device to connect with it.

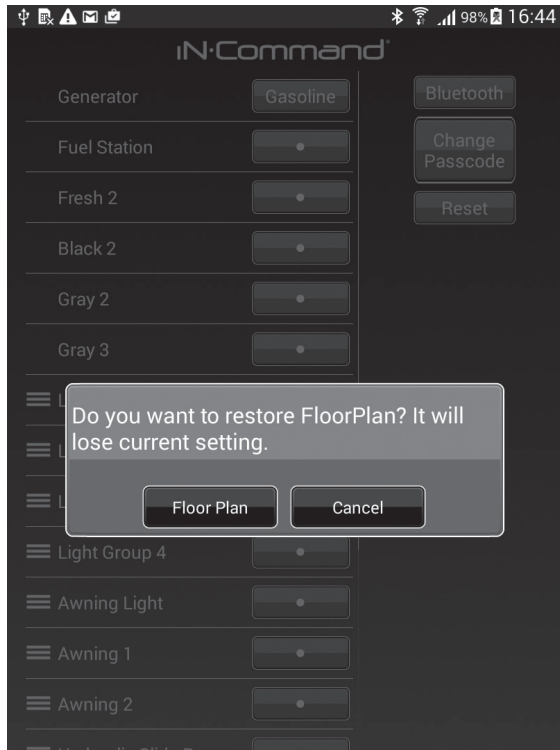


### 3.6 The Apple mobile device now shows the DC is connected.



#### 4. Reset Floor Plan

Press the "Reset" button in the Menu page to load the floor plan configuration from the DC. The current settings will be lost/replaced.



## • CHECKING ACTIVE BLUETOOTH SESSION\*

1. Select "Status".

Generator	Gasoline	
Fuel Station	Yes	Status
Fresh 2	Yes	Bluetooth
Black 2	Yes	Passcode
Gray 2	Yes	Reset
Gray 3	Yes	Brightness
≡ Light Group 1	Yes	Info
≡ Light Group 2	Yes	Setup
≡ Light Group 3	Yes	

\* Unless there is a communication issue with the handheld device, there should be no reason to check the Bluetooth session.

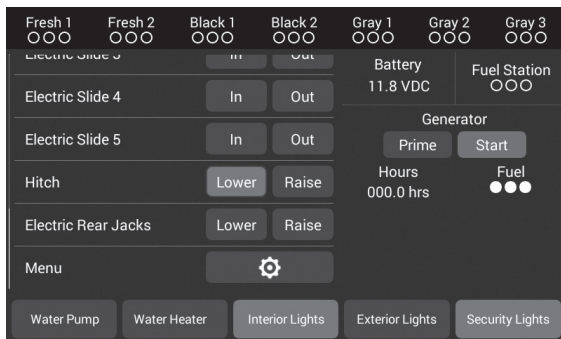
2. The page shows information of current active Bluetooth devices.

Connected Status:			Reflash
Channel	Device	Mac Address	Operator
Channel 1	Nexus 7	D8:50:E6:8D:51:ED	Disconnect

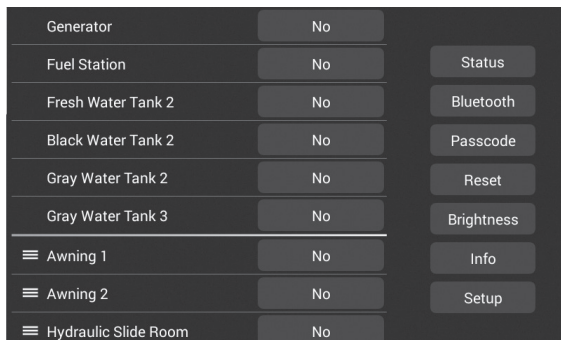
## • SOFTWARE UPDATE\*

Software updates include floorplan redesigns and app version updates.

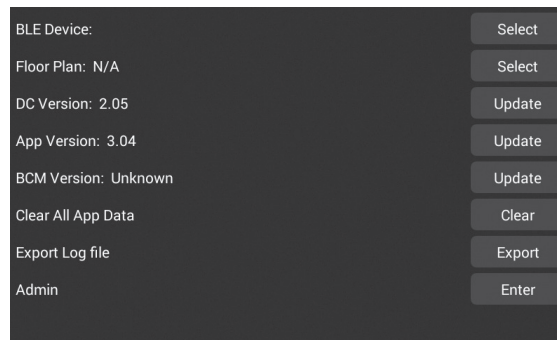
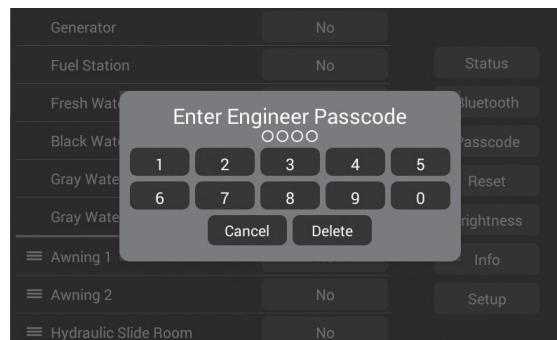
1. Select “Menu”.



2. Select “Setup”.



3. Enter engineer passcode to proceed.\*\*



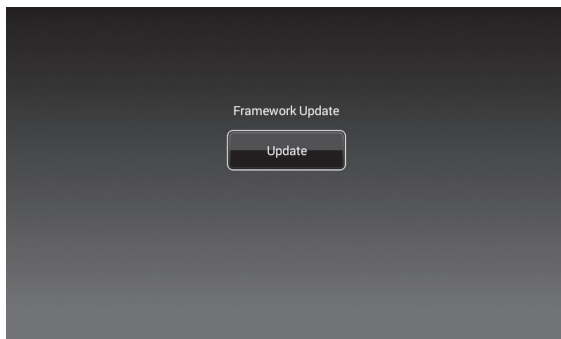
4. Insert USB drive with software update into the DC USB port located on the bottom right corner. The system will look for specific file names for software updates.

- File name: "JRVCS1-AP Vxxxx.apk" → DC APP update, (xxxx is version number)
- File name: "JRVCS1-CM Vxxxx.bin" → BCM update, (xxxx is version number)
- File name: "update.zip" → DC Android OS update
- File name: "xxxxxx.xml" → Floor Plan update

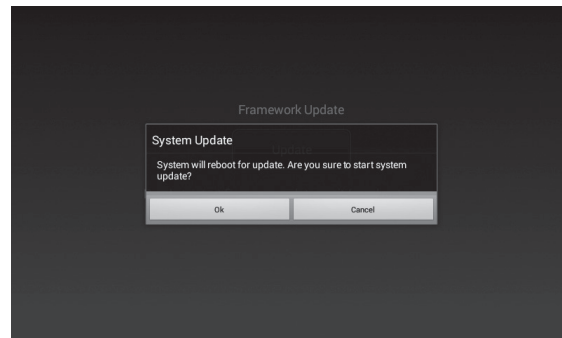
5. The system must be updated in the following order to prevent loss of communication between the DC and BCM.

1. Update DC
2. Update BCM
3. Update APP

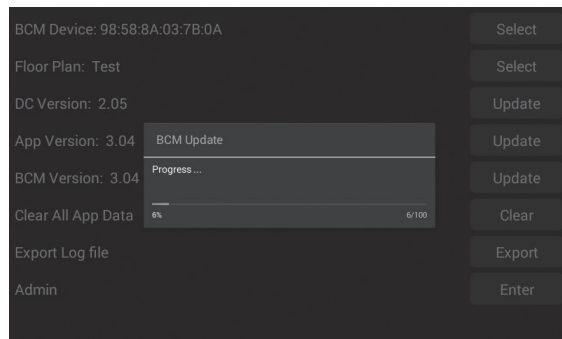
5.1 Press the DC Version "Update" button to update DC OS system.



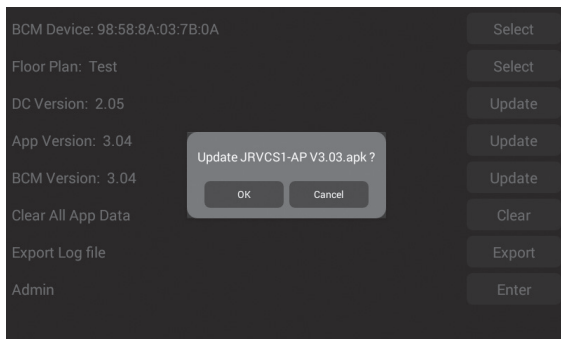
5.1.1 Press OK to continue.



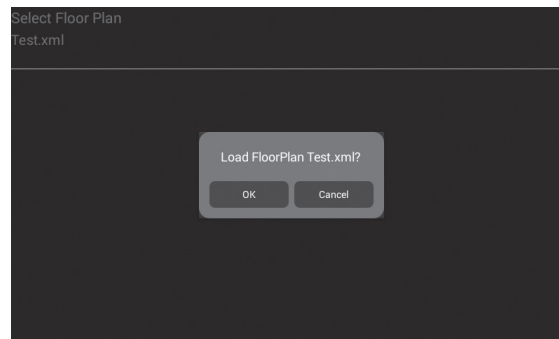
5.2 Press the BCM Version "Update" button to update the BCM firmware.



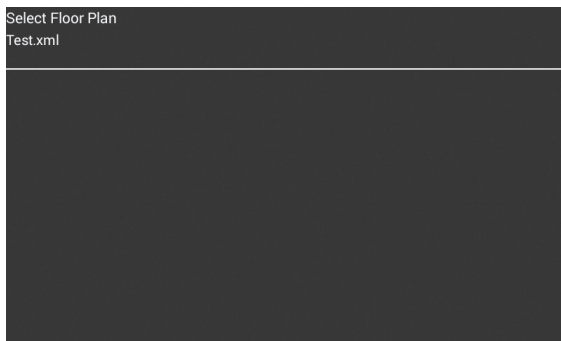
5.3 Press the APP Version “Update” button to update DC APP.



5.4 Press “OK” to confirm selection



5.4 Press the Floor Plan “Select” button to select and load the new floor plan.



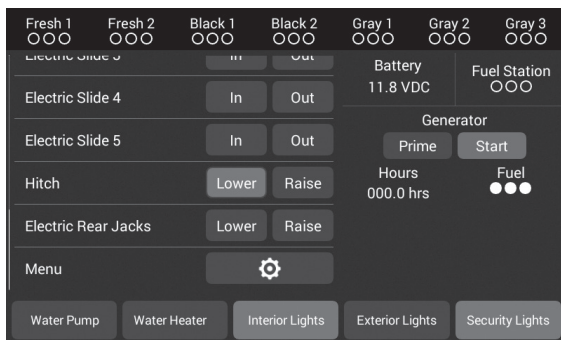
\* If a software update is needed, contact ASA Electronics Technical Support at 1-877-845-8750 or email them at [info@asaelectronics.com](mailto:info@asaelectronics.com).

\*\* The Engineering Passcode is used by the manufacturer for programming and troubleshooting purposes. Should there be a software issue, call ASA Electronics Technical Support at 1-877-845-8750 or email them at [info@asaelectronics.com](mailto:info@asaelectronics.com).

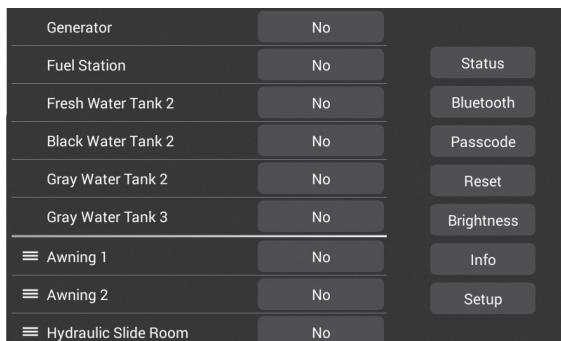


## • RESET: FLOOR PLAN

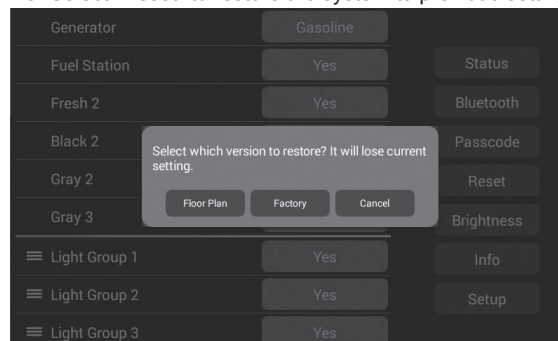
To reset the floor plan to remove customization, select “Menu”.



2. Select “Setup”.

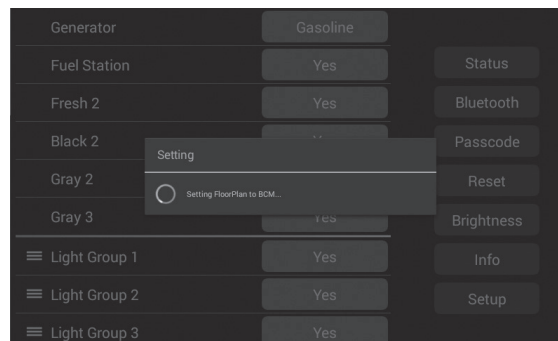


3. Select “Reset” to restore the system to previous setting.



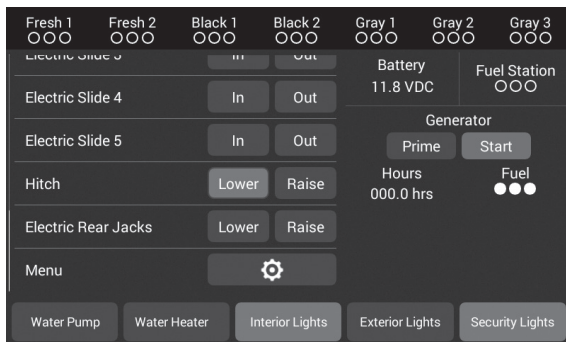
3. Select one of the two options to restore to a previous state. Current settings will be lost.

- Floor Plan: restores to previous floor plan settings from RV manufacturer.
- Factory: restores to default settings from ASA electronics.

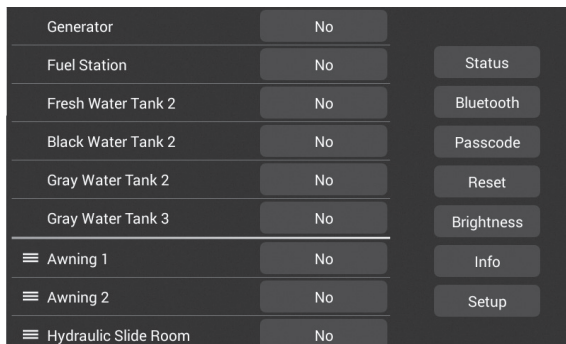


## • SYSTEM CALIBRATION

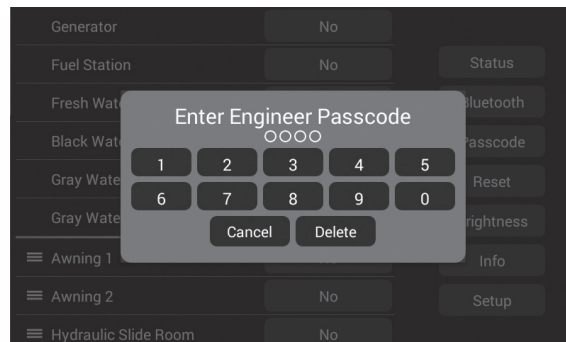
1. Select "Menu".



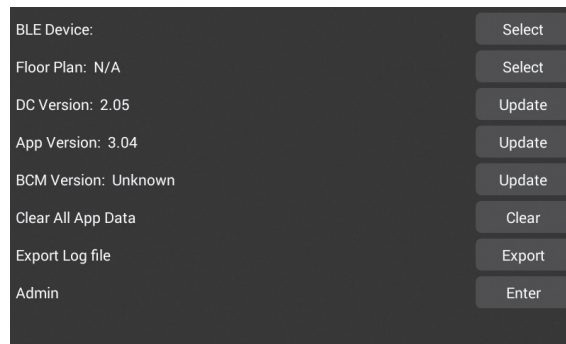
2. Select "Setup".



3. Enter engineer passcode to proceed.\*\*



4. Select "Enter" corresponding to Admin.



5. Enter admin passcode to proceed.\*\*

BCM Device: 98:58:8A:03:7B:0A Select

Floor Plan: Test Select

DC Version: 2.0 Update

App Version: 3.0 Update

BCM Version: 3.0 Update

Clear All App Data Clear

Export Log file Export

Admin Enter

**Enter Admin Passcode**

0000

1 2 3 4 5

6 7 8 9 0

Cancel Delete

6. Select “Tanks” to set resistor reference value for every tank.

Fresh 1 Tank	50K
Fresh 2 Tank	50K
Black 1 Tank	50K
Black 2 Tank	50K
Gray 1 Tank	50K
Gray 2 Tank	50K
Gray 3 Tank	50K

5.1 Make Selection.

Tanks: Tanks

Generator Hour Meter Set

Touch Screen Calibrator Set

\* The system should be calibrated by the manufacturer and only need to be accessed for troubleshooting.

\*\* The Engineering and Admin Passcode is used by the manufacturer for programming and troubleshooting purposes.  
Should there be a calibration issue, call ASA Electronics Technical Support at 1-877-845-8750 or email them at [info@asaelectronics.com](mailto:info@asaelectronics.com).

## • TROUBLESHOOTING

Symptom	Solution
Display Commander (DC) will not turn ON or no front panel operation	Try cycling power with the ON/OFF button.
	Check main fuse in Distribution Panel.
	Check 12V+ on wire to DC (RED wire).
	Check Ground wire to DC.
No power to the Body Control Module (BCM)	Try cycling power with the ON/OFF button.
	Check the Red power LED is off.
	Check the fuse in the Distribution Panel.
	Check 12V+ on wire at pin 80.
	Check Ground wire at pin 77.
DC screen flashing on and off after installation	Disconnect 12V+ and Ground wires from the back of DC.
	Shut off all power to the BCM and DC.
	Reconnect 12V+ and Ground wires from the back of DC.
	Return power to BCM and DC.
Awnings do not move	Check 12V+ at Pin 78. Ensure the relay activates*.
Slide Rooms do not move	Check 12V+ at Pin 79. Ensure the relay activates*.
*Relay not activating	Replace the relay with one from an unused circuit by gently pulling it off the board. See label on BCM cover for relay identification.









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