

JAYCO SERVICE SCHOOL 2021 BMPRO Jayco







INSTALLED IN OVER 200K RVs IN THE LAST DECADE AN INDUSTRY PIONEER OF DIGITAL PLATFORMS IN RVs

ONE OF THE WORLD'S LARGEST INSTALLED SMART MANAGEMENT SYSTEMS INDEPENDENT INTEGRATOR OF RV PRODUCTS

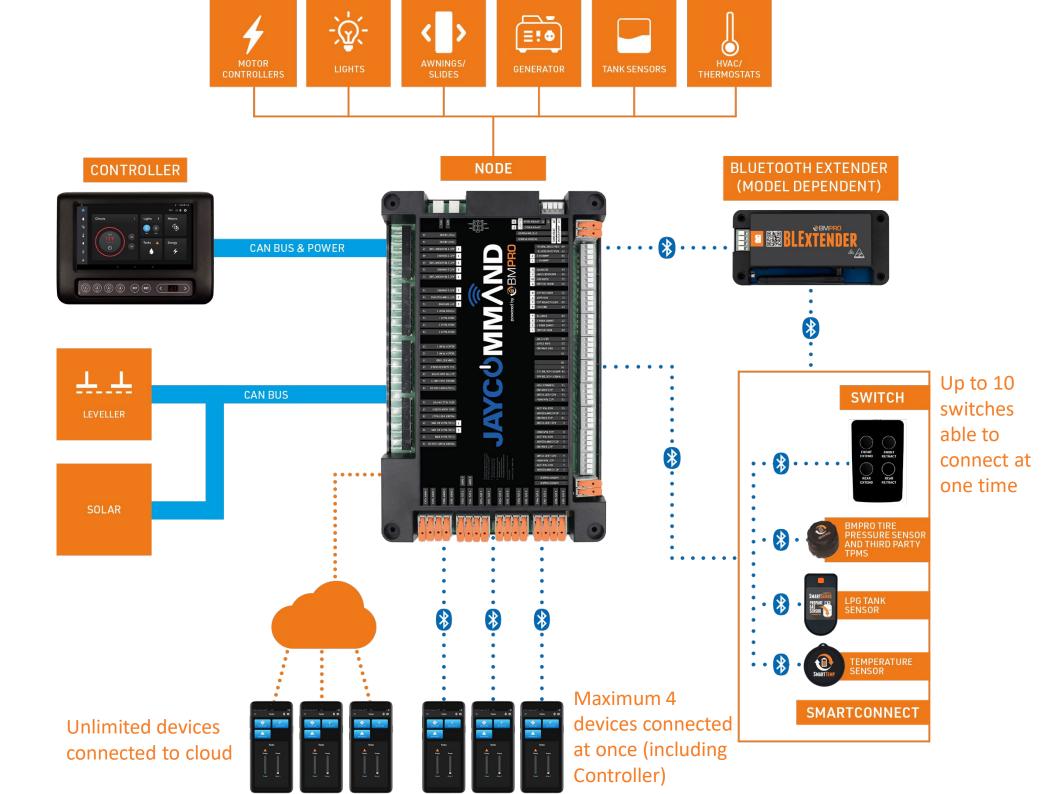
PRODUCT MADE IN MELBOURNE, AUSTRALIA Office in Indiana, USA

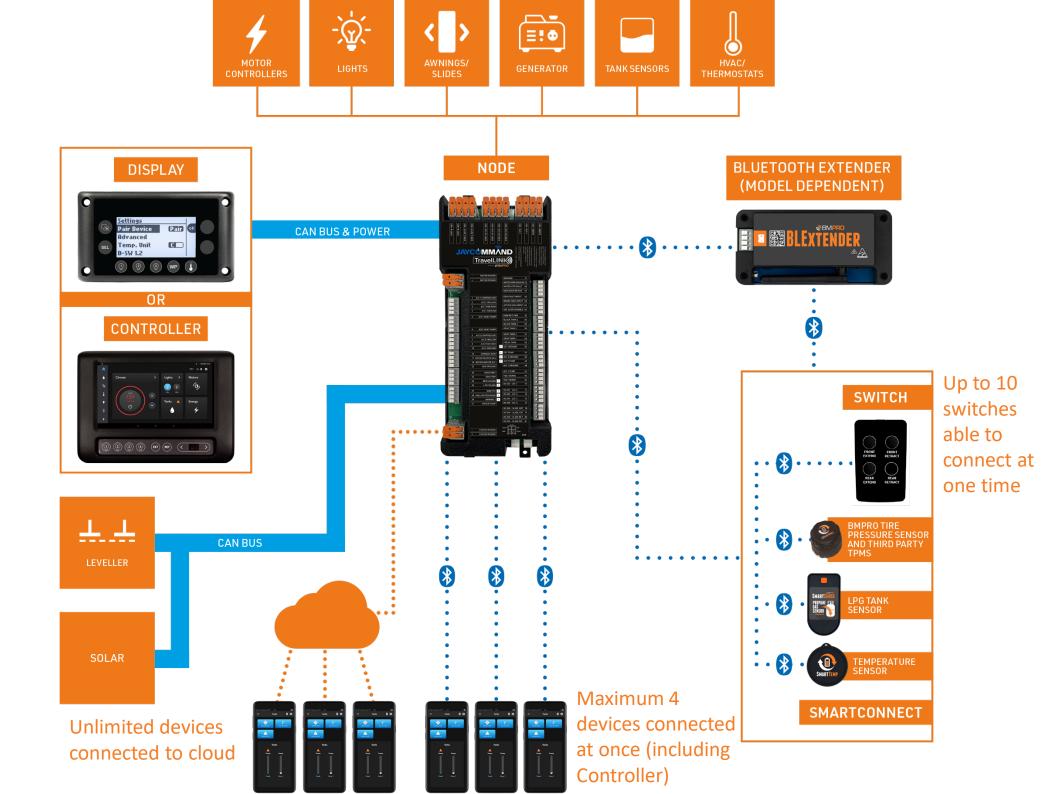




- Control and Monitor Functions
 - Lighting
 - HVAC
 - Water Tanks, Pumps and Heaters
 - Motorized Slides, Awnings,
 Ramp Door
 - Energy Generator, Battery
 Voltage
- Auto Leveling with LCI and Equalizer

- Redundancy Switches on Control for Lights and Motorized
- Tire Pressure Monitoring
- Propane Tank Monitoring
- Temperature Monitoring
- Ability to Add Accessories to the System with Sensors
- Cloud Control
- Wall Mounted Control and BYOD











Maxi Node



Mini Node





CONTROLLER





EXT= Extend
RET= Retract

Awnings



Jacks



Slides



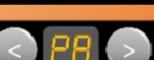
Ramp



Off



Pairing



1 All interior lights





All lights



Water pump



MINI DISPLAY



- 1. Page Navigation
 Button
- 2. Menu Navigation
 Button
- 3. Action Button
- 4. Action Button
- Redundancy Light,Water Pump, andClimate buttons.



CONTROLLER-LITE



The "Lite" variation of the controller was introduced due to the Global microchip shortage.

It is the same as the standard controller, but we have removed the redundancy buttons below the touch screen.

Because of the lack of redundancy buttons, pairing smartphones and the controller itself has changed.



BLE WALL SWITCHES

- There can be up to 6 switches depending on floorplan.
- End customer can add additional switches. The system can support up to 10 total switches.





TPMS

- There can be up to 6 TPMS sensors depending on model.
- TPMS will come in the foam tray from the OEM. It is up to the dealer to install on the correct tire.









TEMP



Jayco Luxury Fifth wheels come with ONE sensor standard in the refrigerator.

The system can support up to FOUR sensors.



LP

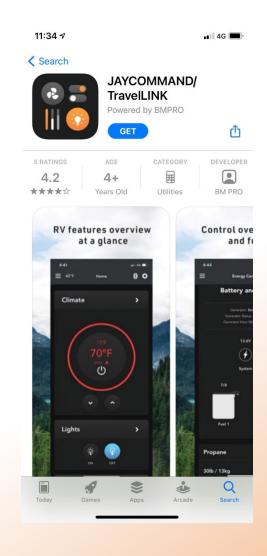


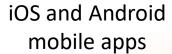
There can be up to 3 LP sensors paired to the system.

These are only available aftermarket.



MOBILE APP



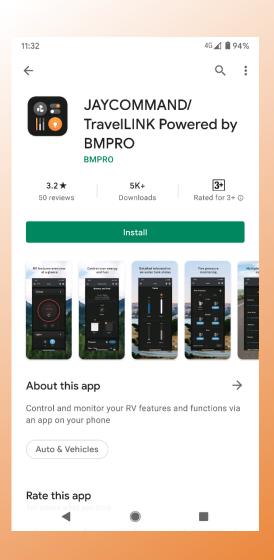












QUESTIONS ON OVERVIEW OF THE SYSTEM??



I/O FUNCTIONS

- 8 H-Bridge polarity reversing motor drivers
- Supports up to 3 A/Cs with optional heat pump outputs
- Furnace
- Electric and gas water heater
- Water pump
- 16 light outputs, 12 of which are dimmable

- Generator start, stop, hour meter, fault
- 6 holding tanks
- Tank heaters
- 2 fuel tanks
- Outside temp sensor



CAN/BLE/CLOUD FUNCTIONS

- LCI hydraulic and electric leveling (2020-21 lux 5^{ths} have Equalizer)
- RVC Go Power solar support
- Voice control (Jay Control)
- Extended motor control on RVMN5X 2nd awning
- Remote capability with Cloud

- BLE TPMS Sensors
- BLE Temperature Sensors
- BLE Propane Sensors
- BLE Wall Switches



PAIRING CONTROLLER TO MARKON Jayco NODE

- Ensure all Powered Up
- Press PA
- Press EXT

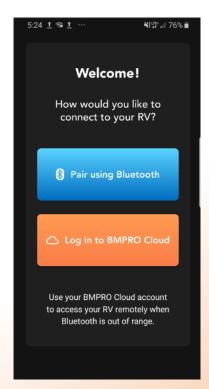






SMARTPHONE PAIRING TO NODE

- In the app, select Pair using Bluetooth
- Use < or > to navigate to PA
- Press EXT to accept pairing









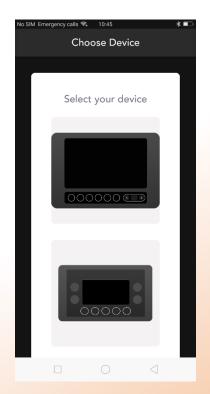


SMARTPHONE PAIRING TO MINI NODE WITH MINI DISPLAY

- In the app, select the device installed in the RV
- Press the Page Navigation Button to navigate to Settings



When Pair Device is selected, press OK







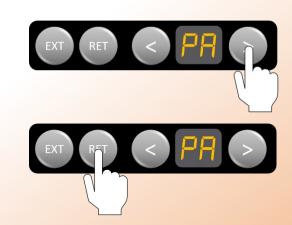
PAIRING ON SYSTEMS WITH THE CONTROLLER-LITE

- Open the app on the mobile device or the Controller
- Press and hold the WATER PUMP switch for 5 seconds
- Wait for the circular loading indicator in the center of the screen to appear.
- NOTE: There is no immediate feedback telling you that the pairing process has begun. If the home page of the JAYCOMMAND/TravelLink doesn't pop up, repeat the process.



SWITCH PAIRING

- Press PA
- When PA Flashing press RET
- Press any two buttons on Switch
- Press EXT to accept pairing



To check what Switches are to be paired with the vehicle configuration follow the instructions below:

- Click on "Settings" menu on the home page
- Scroll down and click on "Battery Levels"



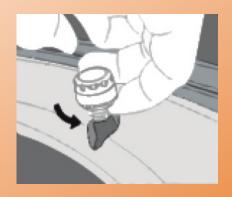




TPMS PAIRING

- Screw on the anti-theft nut
- Tighten the sensor
- Screw the nut anticlockwise to lock the sensor
- Tighten the anti-theft nut.
- Press Pair
- Apply pressure to sensor by screwing on to valve stem of tire within 30 seconds





QUESTIONS ON PAIRING??



HOMEPAGE





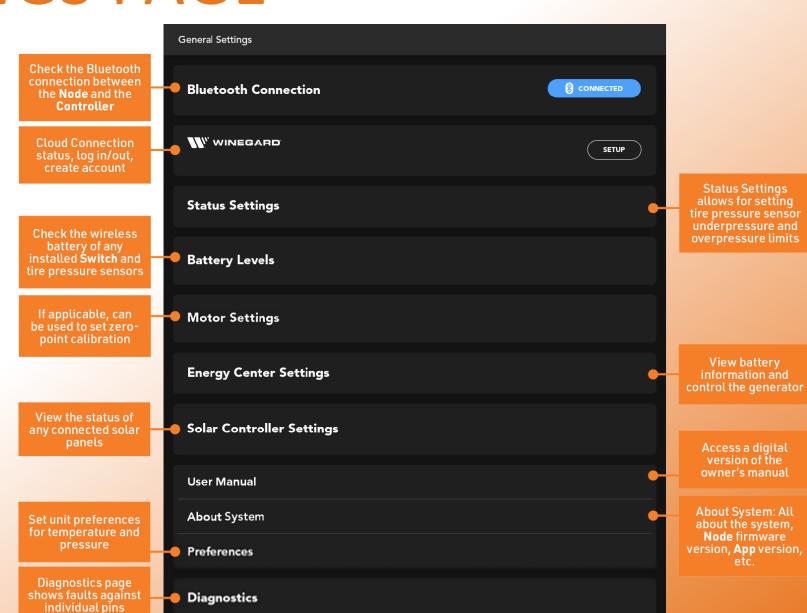
SETTINGS PAGE

Check connection status of:

- Bluetooth
- Cloud
- Units selection temp and pressure

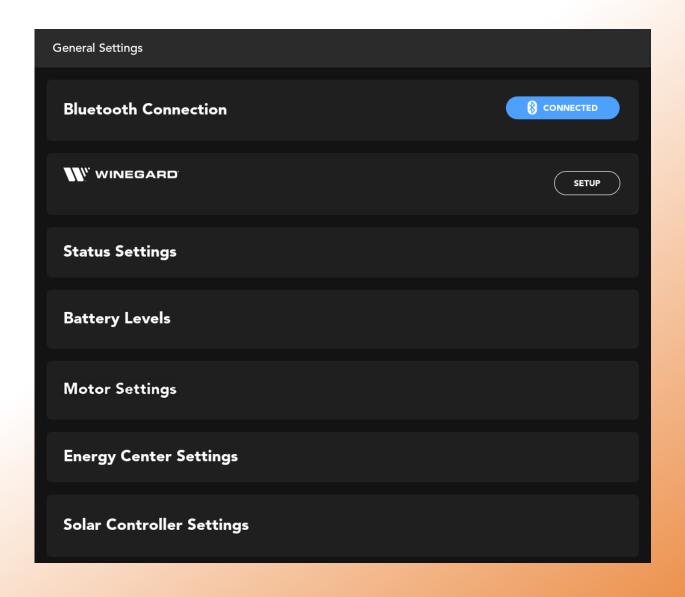
Battery levels

About page





SETTINGS PAGE





SETTINGS PAGE CONT...

User Manual
About JAYCOMMAND
Privacy Policy
Preferences
Diagnostics



DIAGNOSTICS PAGE

Diagnostics			
CH 7		CH 8	
CH 6		CH 1	
CH 2		CH 3	
CH 4		CH 5	
Motor Power +	Unable to Report	Motor Ground	Unable to Report
1		2	
3		4	
5	Unable to Report	6	
7		8	
9		10	Unable to Report
11		12	
13		14	





This should be the first page you check out to make sure everything is current.

About SYSTEM

RV

Serial Number: 1

Model: EAGLE 5TH WHEEL L/M/N

Floorplan: 1WD

NODE

Serial: A0000AA0000

Master-uC: 2.5.3 Slave-uC: 2.5

Product-Rev.: XXX Hardware-Rev.: XXX

Floorplan IO Version: 11.07.02 BLE Protocol Version: 2.5.0

APP

Build Number: 15139 Version Number: v2.5.1 IO Version: 12.0.01

CONTROLLER

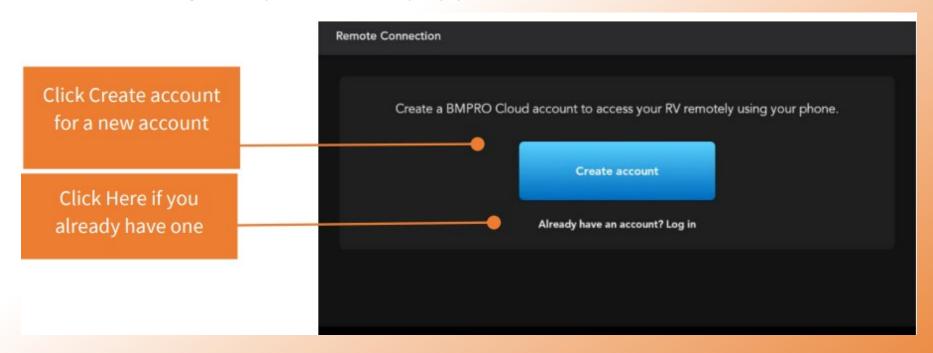
SW: 0.4



CLOUD CONNECT

In order to use the BMPRO cloud feature your wall mounter controller MUST be connected to the internet via WiFi.

You may connect the controller to a WiFi source directly or connect it to the Winegard system (if equipped).





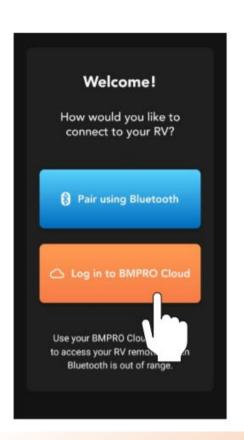
CLOUD CONNECT

You can only CREATE a cloud account from the controller mounted inside the RV.

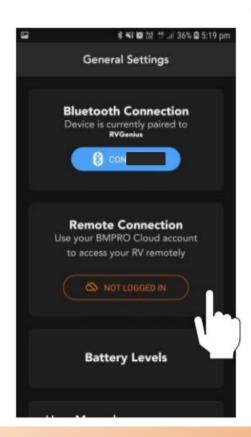
Remote Connection		
	Create a BMPRO Cloud account	
	Full Name	
	teambmpro	•
	Email address	
	adventure@teambmpro.com	•
	Password	_
	*******	•
	Re-enter password	
	*******	•
	Tick to confirm that you have read and agree to our Terms and Conditions and Privacy Policy.	
	Create account	

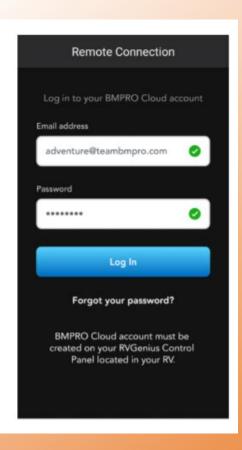


CLOUD CONNECT ON SMART PHONE



OR







WINEGARD

Enter SSID and Password of the Winegard system. Jayco SHOULD be putting a sticker near the controller with this information on it. If not, you can access it by pulling down the ceiling mounted router and finding the info on a sticker inside.

Winegard Settings	
WW WINEGARD	
Locate your Winegard network name and password in the Winegard manual or on the base of your Winegard.	
Network	
Enter network name	
Password	
Enter password	
Join	
•	

Use the magnifying glass to search for a Winegard network.



WINEGARD CONT...

After entering the Winegard SSID and password this screen will appear. It gives you three options. 4G, WIFI, and Local Only. 4G selects the optional 4G simcard allowing data connection over cellular networks.

Selecting WIFI allows you to enter an OUTSIDE wifi name and password so that you can use your Winegard system as a wifi booster. Local only gives you a local wifi network, no internet access.

2:08 🖬 🕹 🖠				₩ 🛜 56% 🛢
Winegard Settings				
	Mh.	WINEG	ARD [®]	
	4G	WIFI	LOCAL ONLY	
	WiFi name			
	Enter WiFi SSI	D		
	Password			
	Enter passwore	d		
		Done	_	
				(4)
	III	0	<	

QUESTIONS ABOUT SETTINGS OR CLOUD??



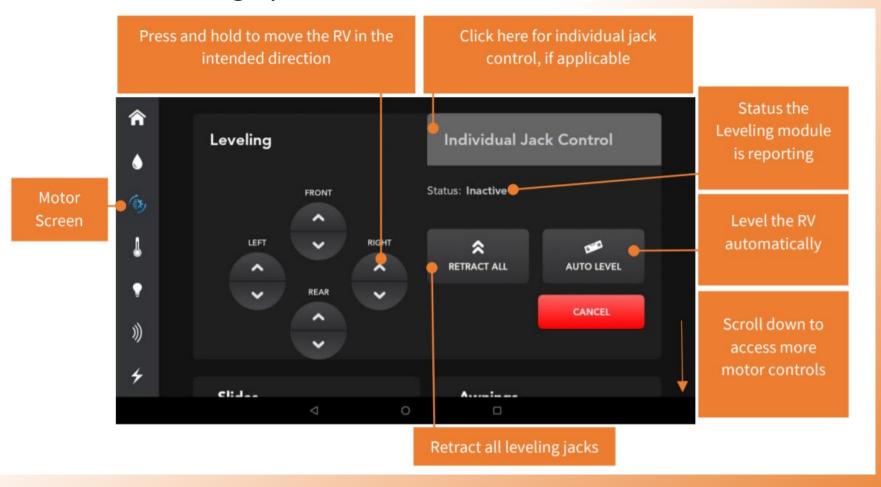
WATER PAGE





MOTORS/LEVELING PAGE

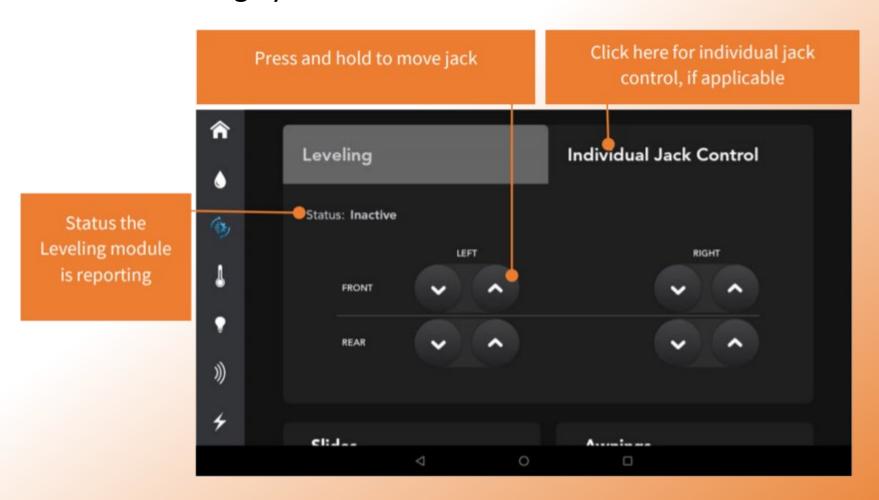
LCI Electric Leveling System Shown





MOTORS/LEVELING CONT...

LCI Electric Leveling System Shown

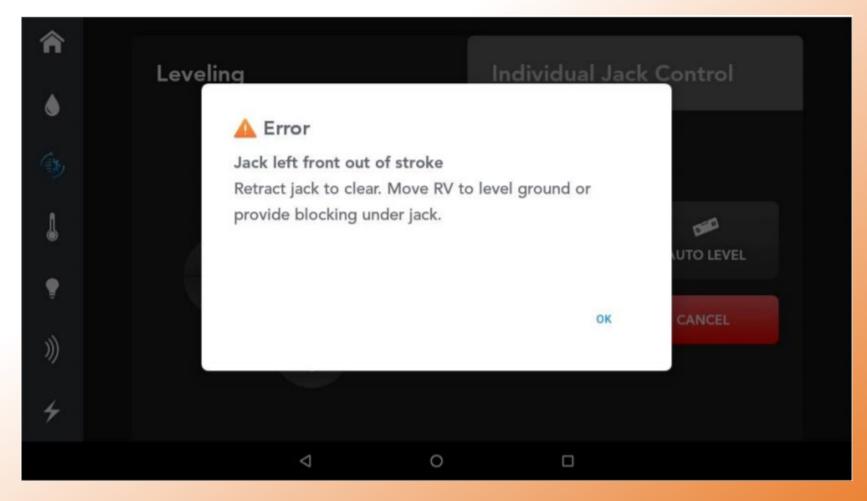




MOTORS/LEVELING CONT...

On an LCI electric leveling system, when in doubt always retract all

jacks.





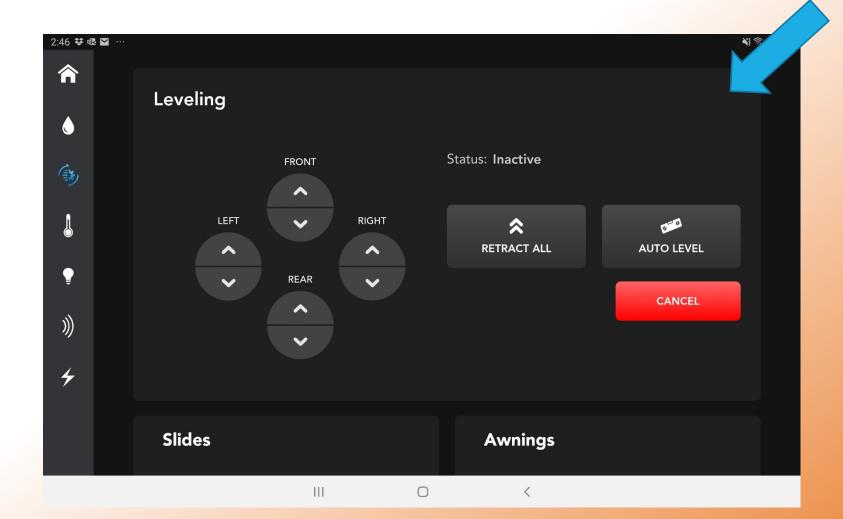
LEVELING ZERO CALIBRATION

- Settings Menu
- Motor Settings
- Click on Start
- Using the buttons below to move the leveling jacks until the RV is leveled
- Press Set to finalize the zero point

Motor Settings			
Zero Point			
Status: Lost Communication			
START	SET	CANCEL	
	LEFT		RIGHT
FRONT	•		•



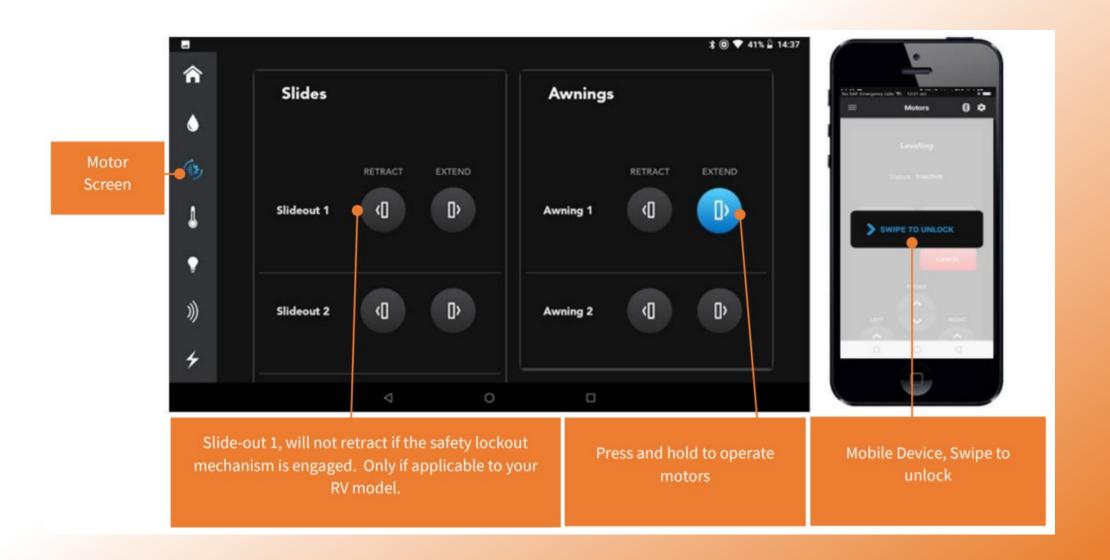
MOTORS/LEVELING CONT...



Notice missing individual jack control tab on Equalizer leveling systems

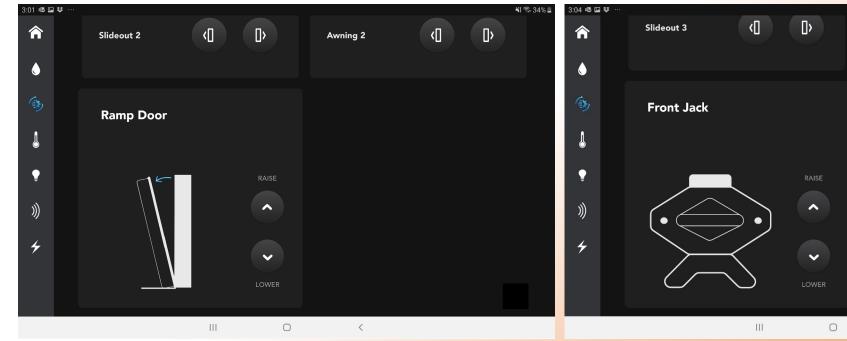


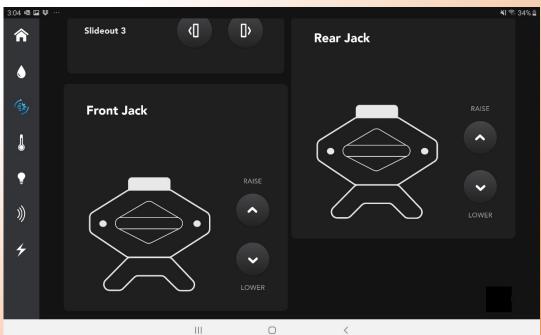
MOTORS/LEVELING CONT...





MOTOR/LEVELING CONT...

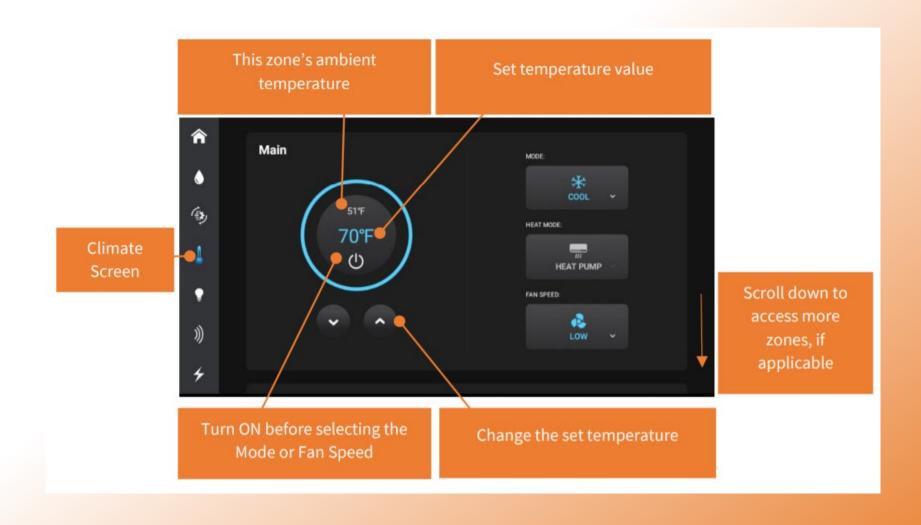




QUESTIONS ABOUT MOTORS OR LEVELING??



CLIMATE PAGE





A/C AND FAN

Set temperature must be less than the ambient temperature, for the compressor to turn ON







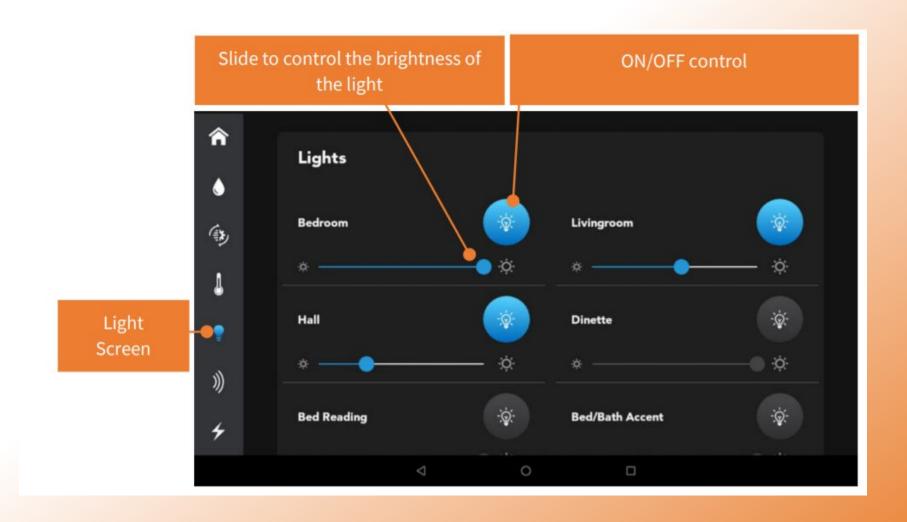
HEATING

Set temperature must be higher than ambient temperature for the compressor to turn ON





LIGHTING PAGE





STATUS PAGE

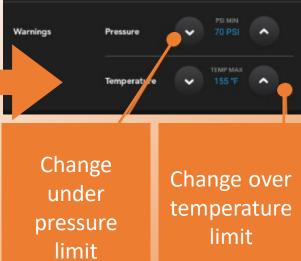
Sensor Temperature

Tire Pressure

Status Screen

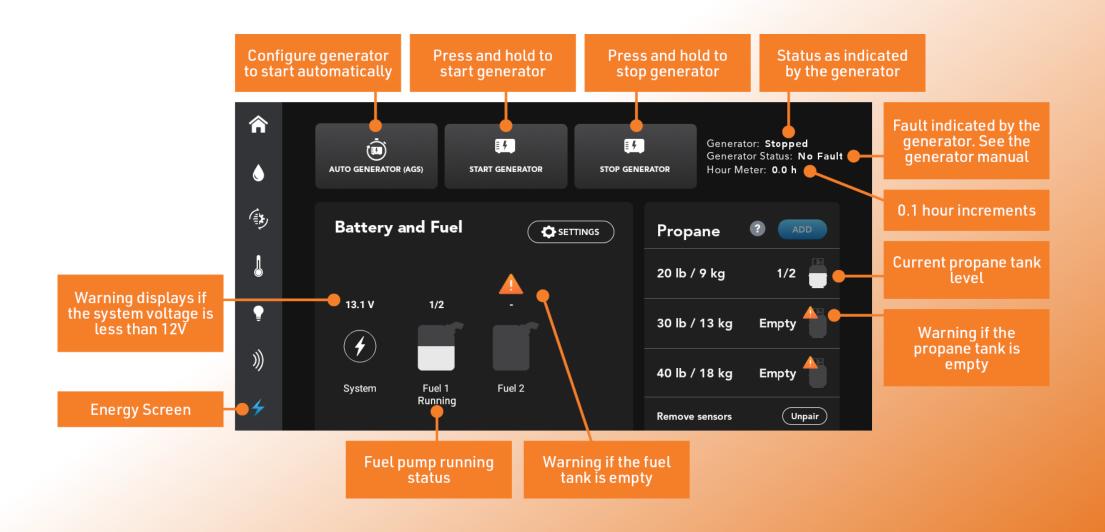
Press Unpair to remove sensor







ENERGY PAGE



QUESTIONS??



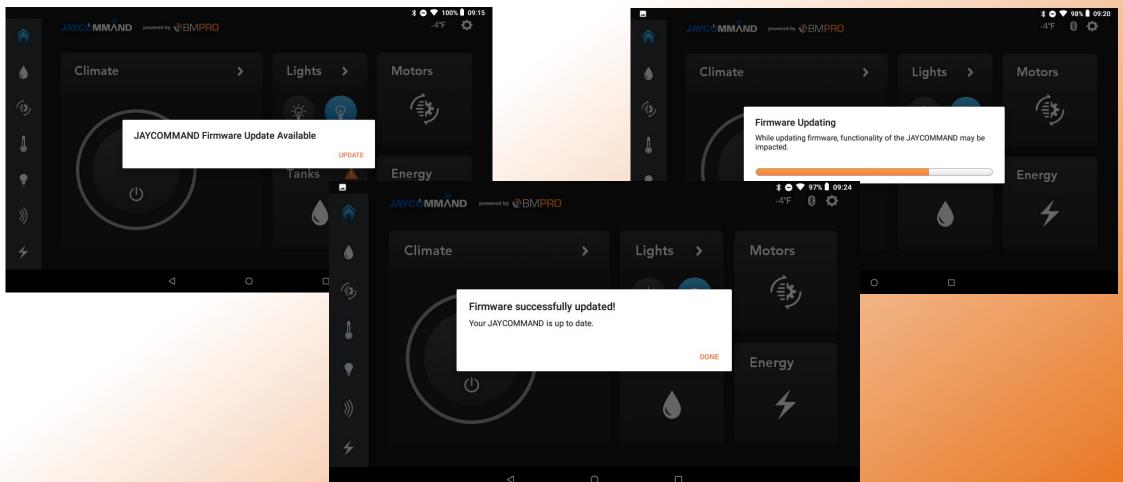
UPDATE APP/FIRMWARE

On occasion BMPRO will release app and or firmware updates to improve user experience.

The firmware will be imbedded in the JAYCOMMAND app update.

To update app and firmware: connect to wifi, log in to the Google Play store, and update the app.

From now on the app will update automatically and automatically push firmware updates.

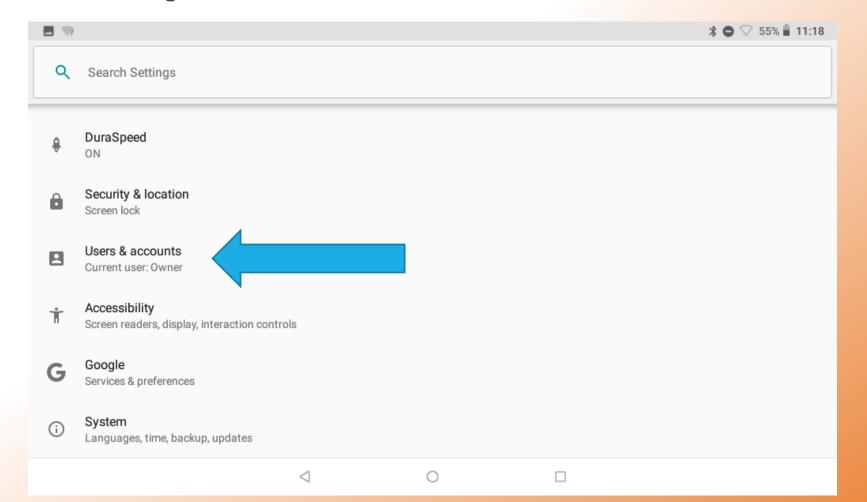


UPDATE APP/FIRMWARE

- It is recommended that the service shop create a generic Google Account that all techs can use and log into to update the app.
- Google accounts are free
- See BMPRO Help Guide Updating the JAYCOMMAND APP and Firmware to learn how to create an account
- When done updating the app log out of the account using the following steps.

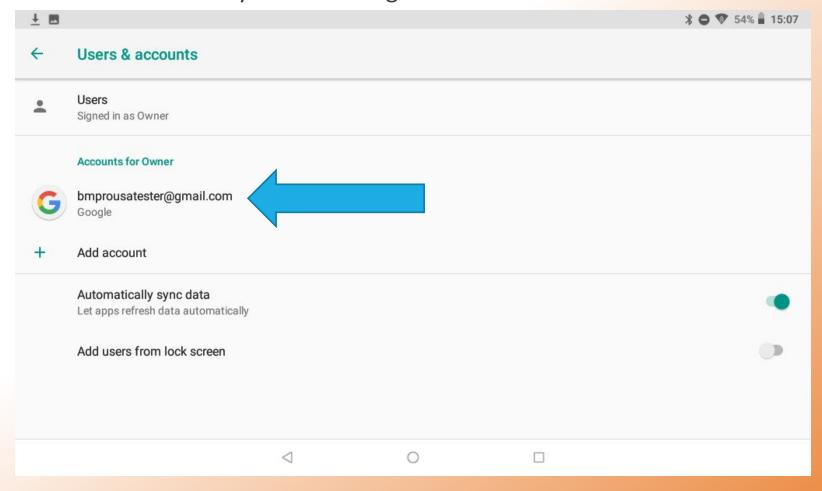
REMOVE GENERIC ACCOUNT

Go to settings and find Users and Accounts



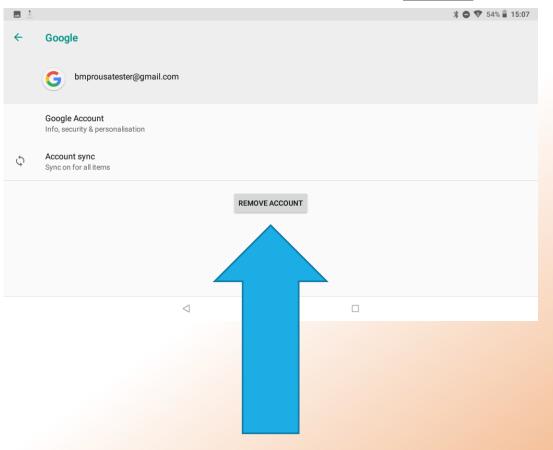
REMOVE GENERIC ACCOUNT

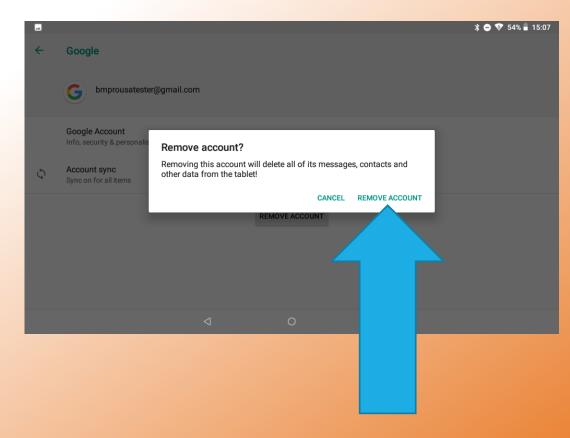
Click on the account you used to sign in



REMOVE GENERIC ACCOUNT

Click REMOVE ACCOUNT <u>TWICE</u>







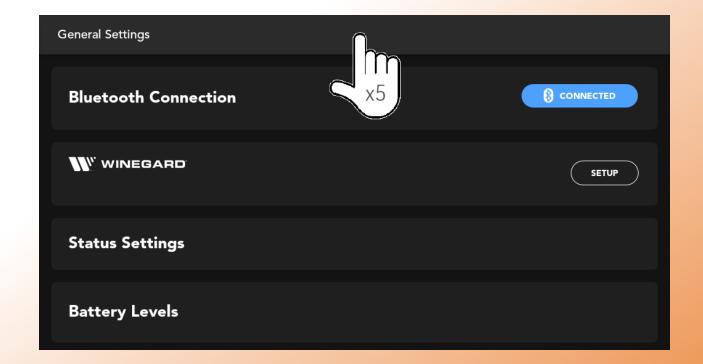
QUESTIONS ON APP OR FIRMWARE UPDATES??





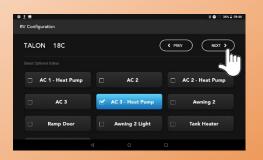
CONFIGURATON OF MODEL

- Settings screen
- Tap 5 times
- Select model
- Select floorplan
- Choose options
- Enter serial number
- Press confirm





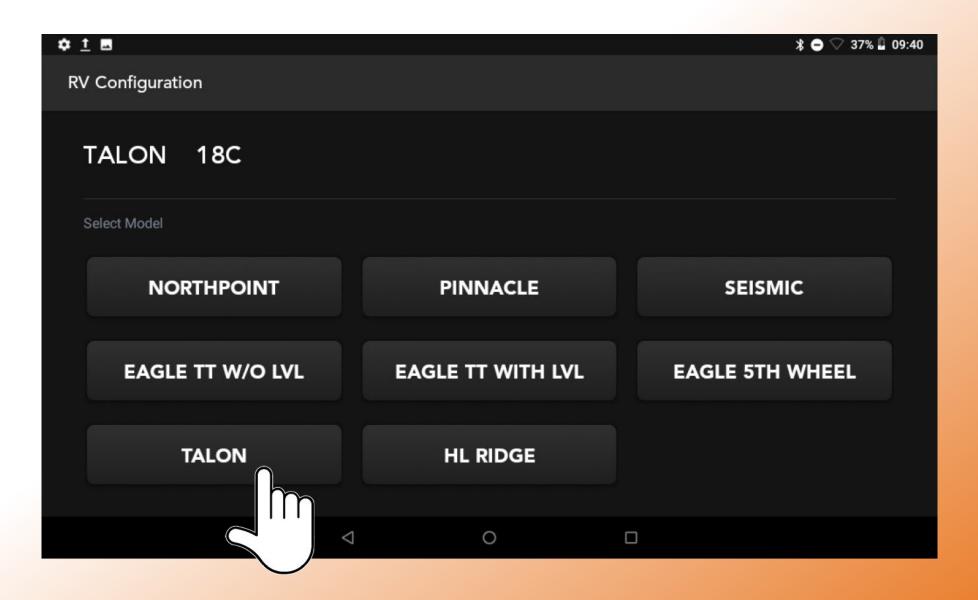






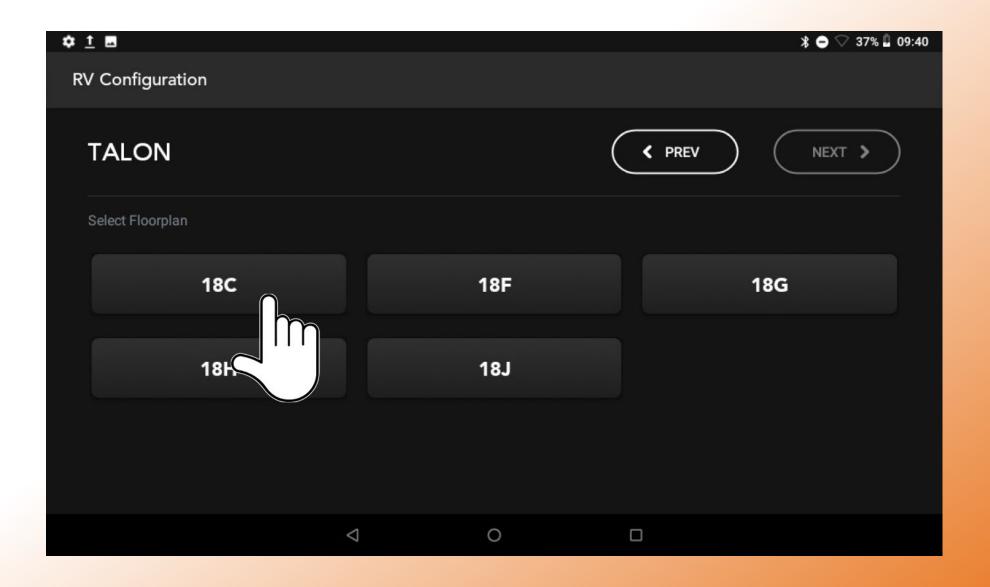


SELECT MODEL



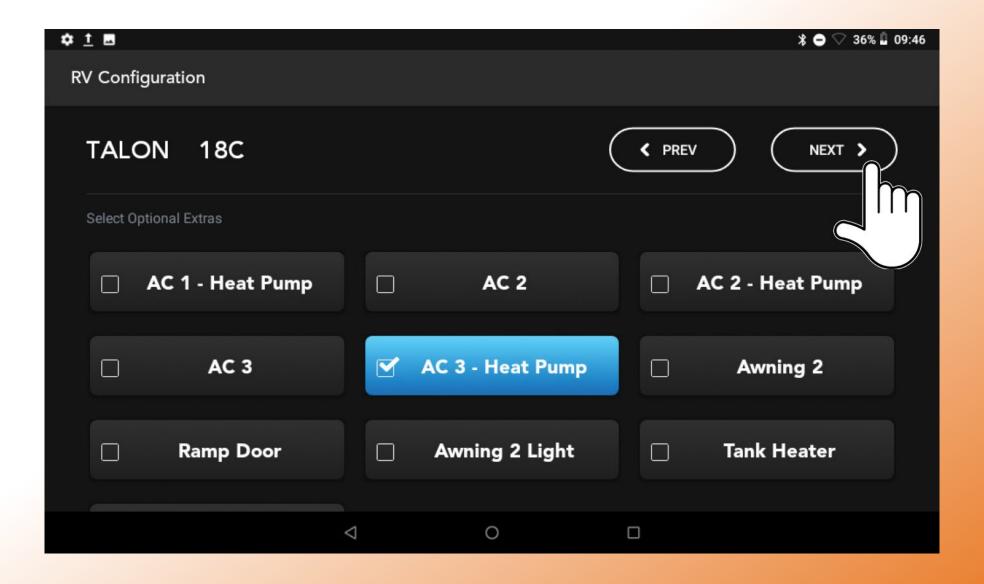


SELECT FLOORPLAN



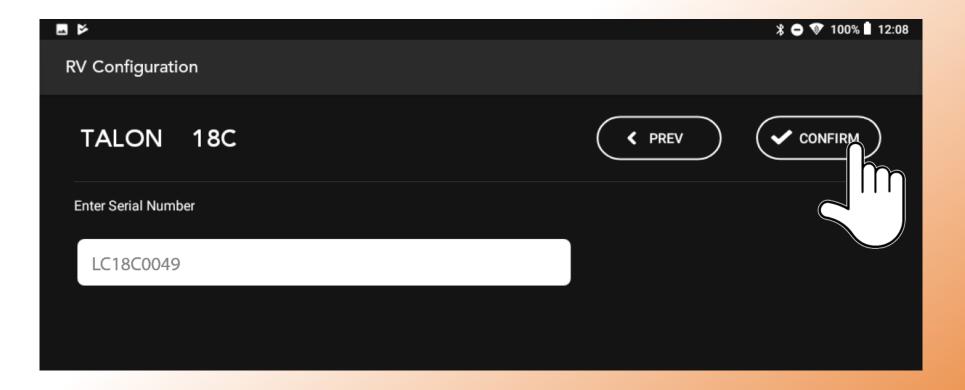


CHOOSE OPTIONS





ENTER UNIT SERIAL NUMBER AND PRESS CONFIRM

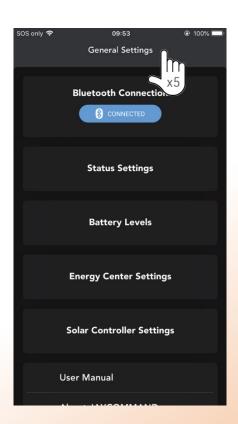


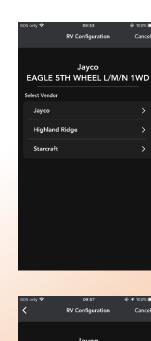


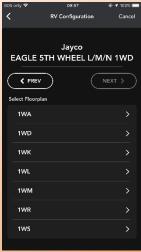


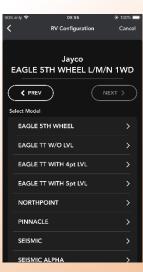
CONFIGURATON OF MODEL

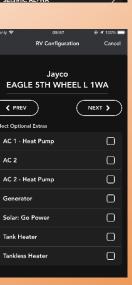
- Settings screen
- Tap 5 times
- Select Jayco
- Select model
- Select year
- Select floorplan
- Choose options
- Enter serial number
- Press confirm

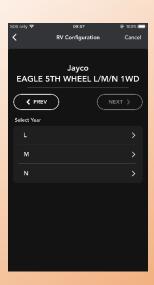








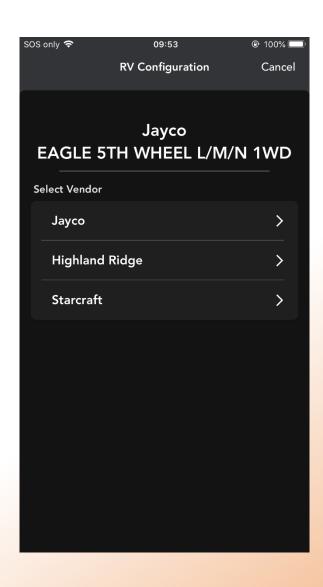


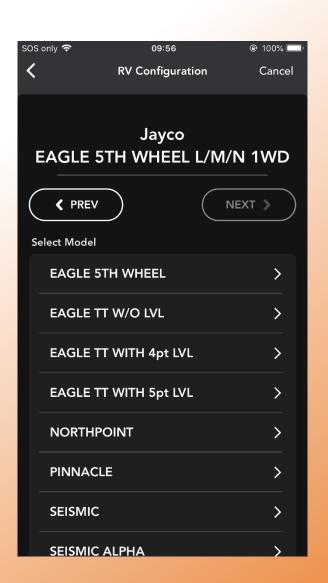






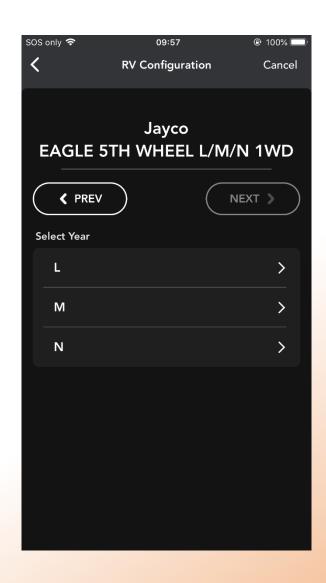
SELECT JAYCO AND MODEL

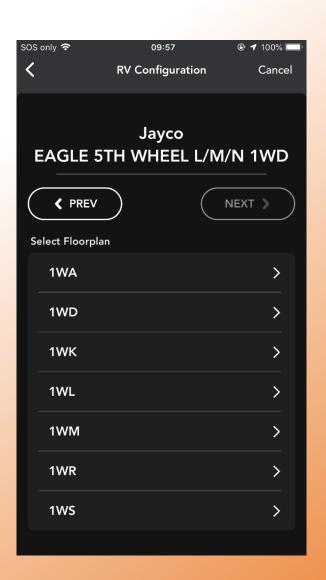






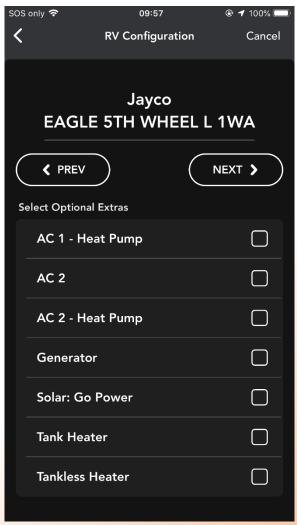
SELECT YEAR AND FLOORPLAN

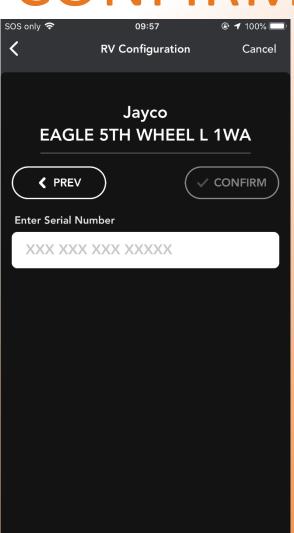






CHOOSE OPTIONS, ADD
SERIAL NUMBER, CONFIRM

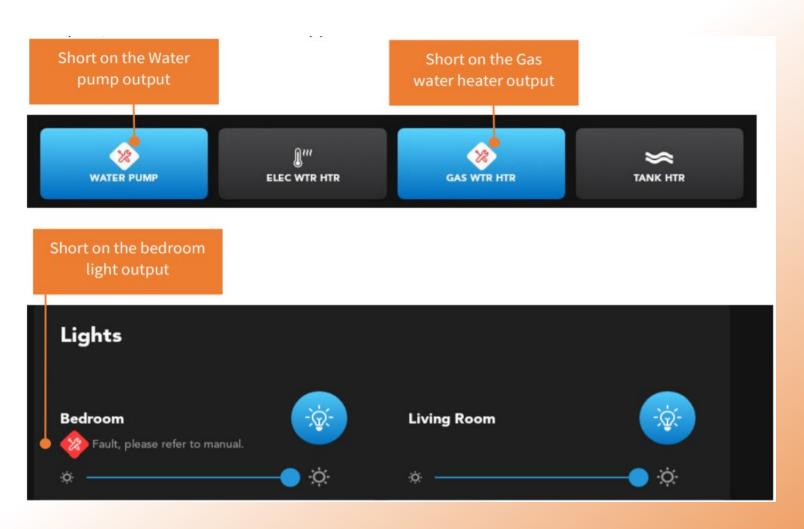




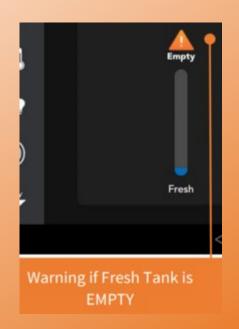
QUESTIONS ABOUT CONFIGURING??



FAULTS VS. WARNINGS







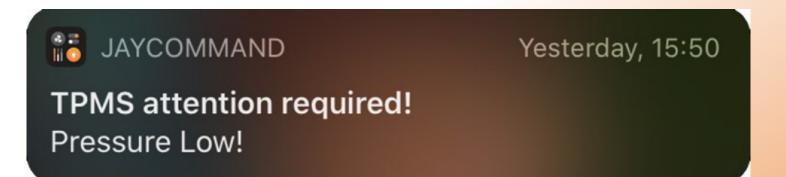


FAULTS VS. WARNINGS

- Faults show up when there is a SHORT on the output.
 - Clear the short and toggle the output off and on.
- Warnings show up on the following occasions:
 - Fresh water tank is EMPTY
 - Grey or Black holding tanks are FULL
 - When fuel tank(s) are EMPTY
 - Gas water heater fails to ignite after 3 attempts.
 - TPMS pressure is LOWER than set point OR TPMS temp is HIGHER than set point
 - Battery voltage is LOWER than 12vDC



PHONE NOTIFICATIONS





- Scroll to PA
- Push and hold EXT for 10 secs
- You will see ones scroll across the 7segment display
- You will need to repair the controller





UNPAIRING SWITCHES

- Scroll to PA
- Press and hold RET for 10 Seconds
- You will see ones scroll across the 7-segment display
- You will need to re-pair any and all switches



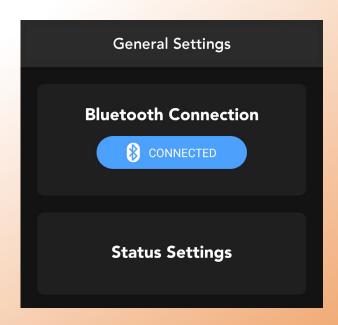


UNPAIRING THE NODE

• In the App, press the Settings button

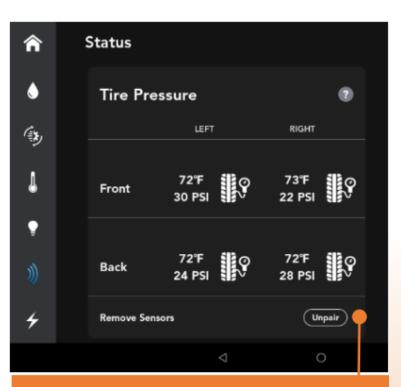


- Press Bluetooth Connection
- Press Unpair RV

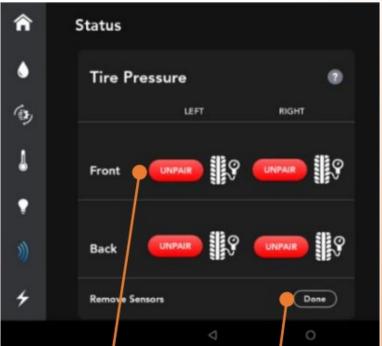




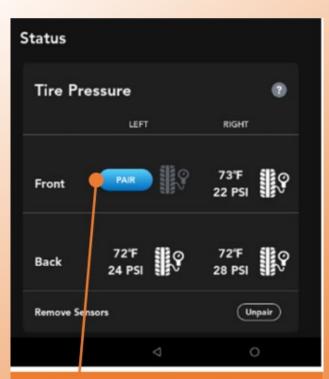
UNPAIRING TPMS



To unpair a tire pressure sensor, select "Unpair,"



To unpair a tire pressure sensor, select "Unpair," then press "Done"



Now you are ready to pair to another sensor



FAQS

- My touch screen will not wake up when I touch it
- My Controller is asking me for a password
- My display is in portrait mode and I can't see all the functions
- My auto hitch height will not work
- How do I connect to WiFi
- My auto level will not work
- My flush floor slideout doesn't run all the way in or out without stopping
- My leveling status says "inactive"
- My controller powered up in a weird "drawing" screen with little squares around the edges.
- My temp is reading -4 or 140 degrees



CONTROLLER FAQS

- My controller will not wake up when I touch it.
 - See BMPRO Help Guide "Prevent Controller Sleep Mode"
- My Controller is asking me for a password
 - This is rare occurrence that MAY happen if the customer backs up or syncs their controller to their existing Google Account.
 - If the controller asks for a Pin, password, or pattern it generally is what the customer is using for their cell phone password.
 - If they cannot remember or do not know it, there is no way to recover it. They will need a replacement controller.



AUTO LEVEL FAQ

- My auto level will not work
 - Reminder BMPRO is just a UI for the leveling
 - There are several reasons for the auto level not to work
 - If it is an Equalizer system make sure you are hooked up to a battery
 - Make sure a nylon block is installed between the Equalizer control panel and the metal enclosure its screwed to
 - Verify everything works from the outside panel. If it doesn't its likely not a BMPRO issue.
 - Retract all jacks to home them after every error.
 - Verify wiring and polarity of jacks
 - Reset zero point



AUTO LEVEL FAQ

- LCI touch pad will not work but does work from BMPRO
 - Check for updates on the BMPRO system
- There are new LCI error codes that have better explanations
 - Please scroll through all the errors that display to figure out whats going on.
- If you see "Lost Communication" status:
 - Check the can cables and power to levelers and LCI gateway



SLIDEOUT/AWNING FAQ

- My flush floor slideout doesn't run all the way in or out without stopping
 - Update to newest firmware and app
 - Newest firmware introduces extended amperage timeouts
 - Check 40 amp inline fuse and 20 amp resettable fuse in fusebox
- If any slides or awning are going one direction and not the other
 - Please reset power to the system.
 - Please make sure its up to date.
 - Replace node.



"BOOT LOOP" FAQ

- My controller keeps flashing the BMPRO slash page
 - Replace the screen. When it gets into that condition, it cannot be recovered.



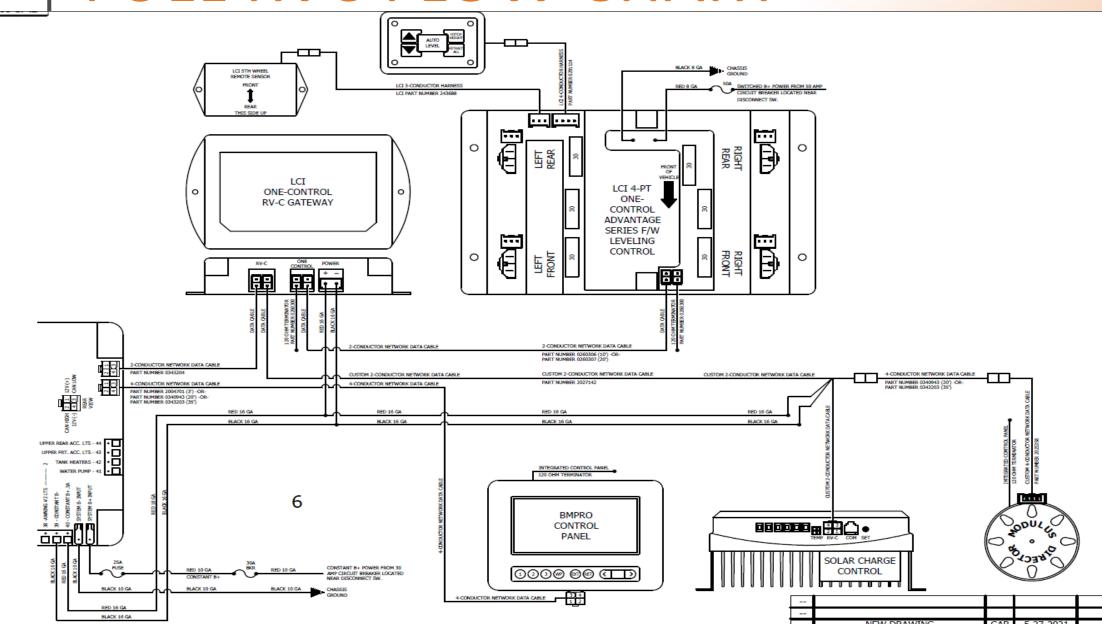


THERMISTOR FAQ

- My temp is dashed out (–F°)
 - If temp on any climate zone including the outside is reading -4 it means that there is an open on that input.
 - Check board make sure both temp input and return have wires on them.
 - Go to thermistor and pull it out to see if a wire is broke
 - Replace thermistor
 - If temp on any climate zone including the outside is reading 140 it means that the thermistor wires are shorted together
 - Go to thermistor and pull it out to see if there a screw through the wires
 - Replace thermistor



FULL RVC FLOW CHART







REMOVAL/REPLACEMENT Jayco CONTROLLER

Controller back plate is secured to wall by four screws.

Use small screwdriver to push locking tabs up and remove controller from back plate.

Disconnect can cable.







REMOVAL/REPLACEMENT Jayco WALL SWITCH

Switch back plate is secured to wall by two screws.

Use small screwdriver to push locking tab up and remove switch from backplate.

Battery is user replaceable (CR2032)







REMOVAL/REPLACEMENT NODE

When replacing the node it is highly recommended that you photograph the node and wiring BEFORE attempting to replace.

Up next I will show you examples of installations...





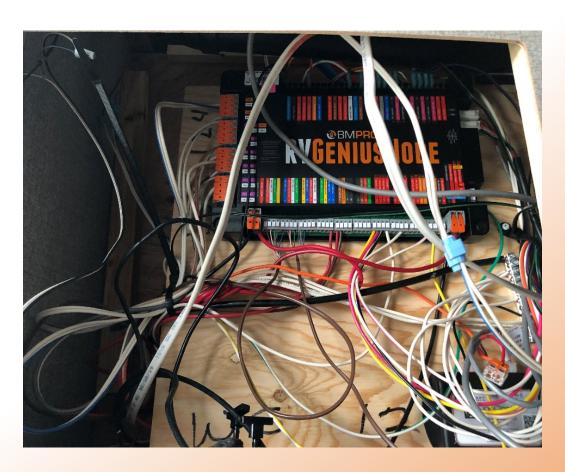


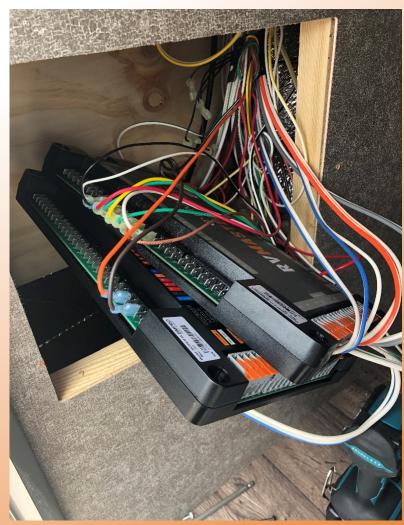
WHEN REPLACING A NODE

- Update the controller to the latest app
- Pair the controller to the node
- Configure the system
- Wait for firmware updates
- Pair switches, TPMS, TEMP, LP



EAGLE TT

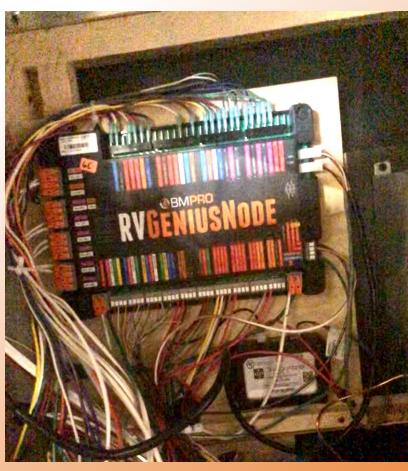






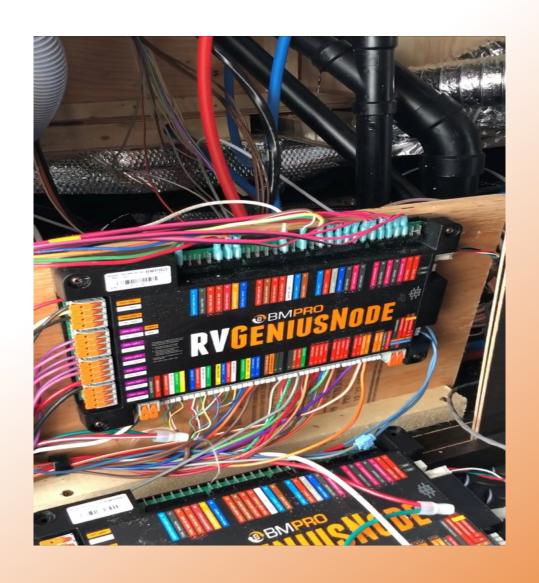
EAGLE/TALON 5TH WHEEL







LUXURY 5TH WHEELS



QUESTIONS ON REMOVAL / REPLACEMENT??

THANK YOU!



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