Quick Start Guide

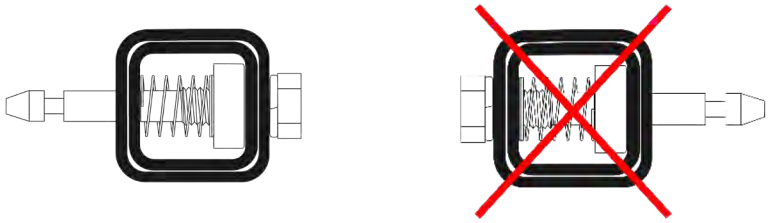
www.thepodrunner.com

530.891.3471

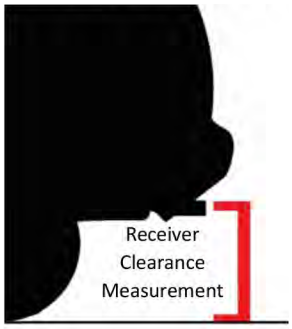
Ka-Band

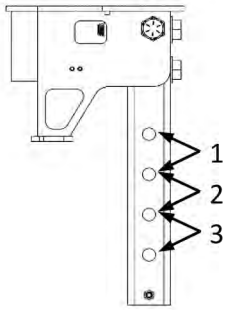
Loading

1. Position the vehicle's tow hitch over solid, level ground.
2. Remove the Hitch Adapter from the Chassis Bed and insert the Receiver Tongue into the hitch of vehicle. Secure with the Anti-Rattle Hitch Pin ensuring that the threaded block is on inserted side.

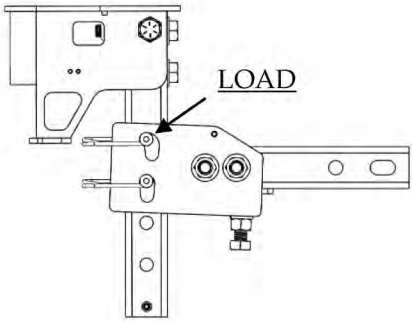


3. Set the Height Adjustment of the Hitch Adapter to highest setting as available based on the vehicle's receiver clearance measurement for maximum ground clearance.





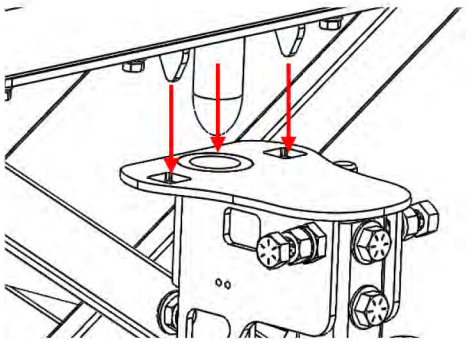
#	Clearance
1	24"+
2	20-24"
3	12-20"



4. Pull the Hitch Adapter's Mounting Box up & away from the vehicle to seat the PitchLok Pins in the LOAD position.

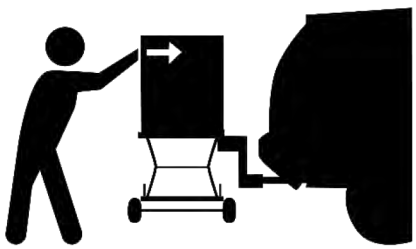
5. Raise the SatRunner by rotating the Crank Handle CLOCKWISE to elevate the Mounting Pin above the Hitch Adapter. Roll into position with the Mounting Pin above the Mounting Box Receiver Tube.

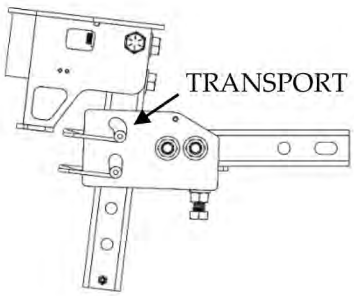
6. Connect the Runner's Chassis 4-pin connector to the vehicle's 4-pin receiver.



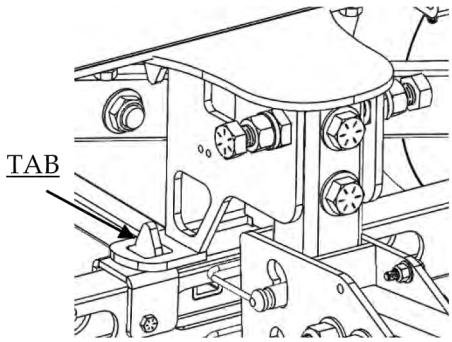
7. Turn the Crank Handle COUNTER-CLOCKWISE to lower the Mounting Pin into the Hitch Adapter until the Mounting Tabs drop and lock into their respective holes.

8. Continue lowering until the weight begins to transfer to the vehicle's suspension. STOP turning the handle. Give the Unit a firm push towards the vehicle. The PitchLok Pins will slide down into the TRANSPORT position.

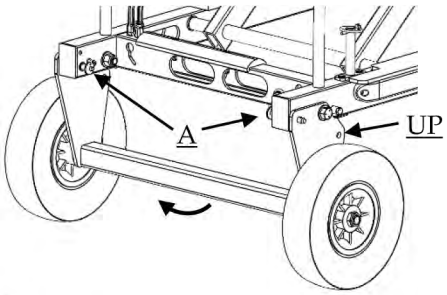


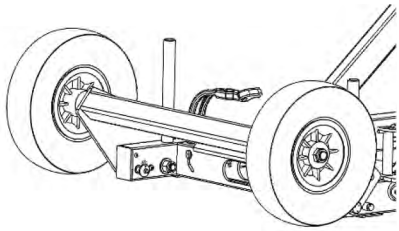


9. After securing the unit into the TRANSPORT Position, continue raising the Lower Frame until the Mounting Box locks on the tabs of the Lower Frame, then a ¼ to ½ a turn more to add compression securing it to the Hitch Adapter.



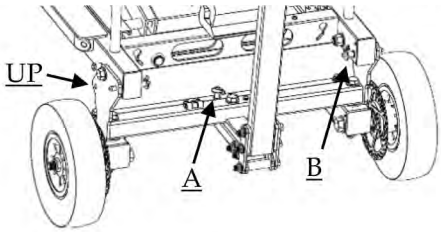
10. Remove Leg Pins (A) from both sides of the Tail Axle assembly.
11. Rotate the Tail Axle upwards.
12. Reinsert Leg Pins into the UP-position holes.

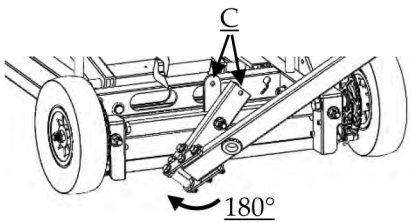


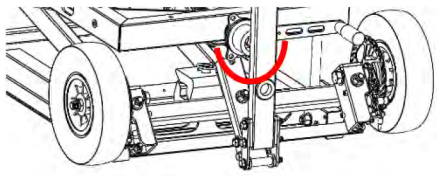


⚠ Exercise caution to not pinch the Brake Lines.

13. Remove the Steering Lock Pin (A) and both Leg Pins (B).
14. Rotate the axle half-way up, then rotate the steering handle counterclockwise 180°.
15. Align the steering link and lock tab holes (C) and insert the steering lock pin (A).
16. Rotate the wheels all the way into the UP position.
17. Reinsert both leg pins (B) into UP position holes.





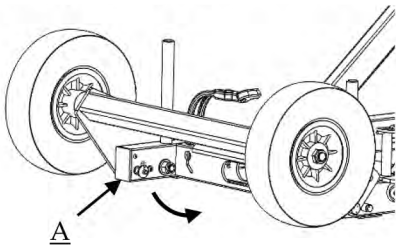


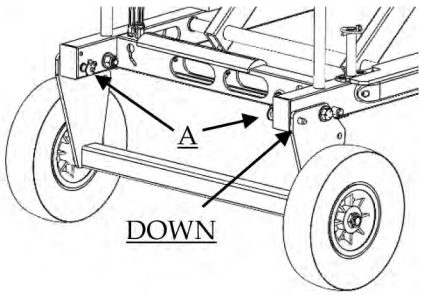
18. Use the Red Safety Lanyard to secure the handle.

19. Verify SatRunner chassis lights (Stop, Turn, and Taillights) are fully functional before traveling.

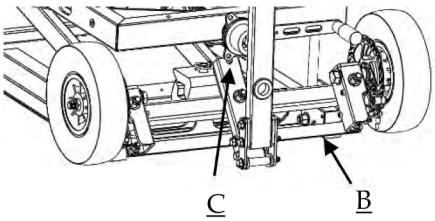
Unloading

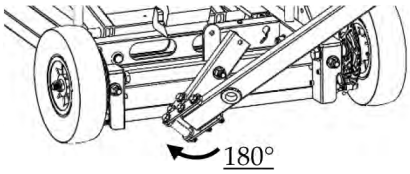
1. Position the vehicle (and the mounted SatRunner) over firm, level ground.
2. Disconnect and stow the 4-pin light connector.
3. Set the SatRunner's Parking Brake.
4. Remove both leg pins (A) from the UP-position holes.
5. Rotate the Tail Axle downwards.
6. Insert both leg pins (A) locking the Tail Axle into the DOWN position holes.

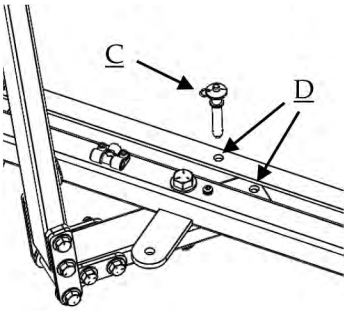


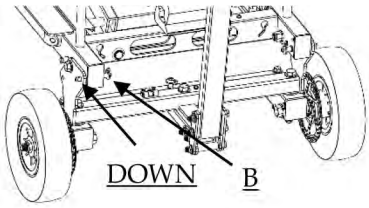


7. Unclip the Red Safety Lanyard securing the Pull Handle.
8. Remove both leg pins (B) and steering lock pin (C).
9. Rotate the Steering Axle downwards approximately halfway and then rotate the steering handle clockwise 180°.
10. Align the steering link and tie rod holes (D) and insert the steering lock pin (C).
11. Insert both leg pins (B) into DOWN position holes.



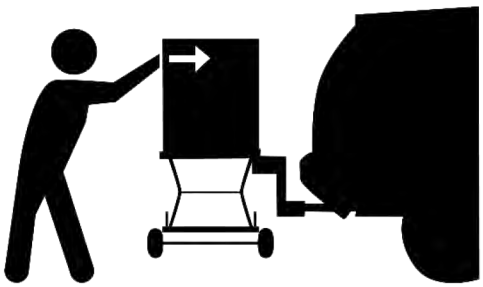






12. Turn the Crank Handle CLOCKWISE, to lower the wheels, until they meet the ground.
    a. Once the wheels meet the ground, there will be resistance in the Crank Handle as the weight shifts from the vehicle to the SatRunner.
    b. Continue turning the Crank Handle CLOCKWISE, until the PitchLok Pins pop loose and the Mounting Pin comes out of the Mounting Box.

⚠ If the PitchLok Pins do not release (typically due to lack of lubrication), push the unit towards the vehicle. Alternate between rotating the Crank Handle and pushing the unit toward vehicle, until the PitchLok Pins release.



13. Continue elevating until the Mounting Pin is clear of the Mounting Box, unlock the parking brake and move the unit away from the vehicle.

    If the vehicle needs to leave, remove Hitch Adapter from the vehicle and store it in the bed on the Lower Frame.

14. Be sure the unit is clear of any obstruction and then turn the Crank Handle COUNTER-CLOCKWISE to lower the Upper Frame onto the Lower Frame.

⚠ The unit should only be moved with the Upper Frame fully lowered to prevent tipping.

15. Roll the SatRunner to the desired location for operation.

Mast

Deploying the Mast

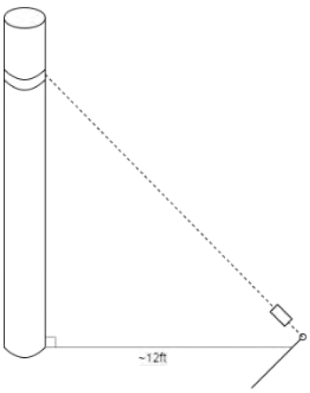
1. Make sure the two Mast Mounting Clamps are tight.
2. If guying mast, do so now.
3. Securely attach antennas to mast top.
4. Undo the top mast lock and use your hands to extend the smallest diameter pole.
5. Pivot the locking lever back down to secure the extended section of the mast.
6. Repeat step 3 for the rest of the sections, as needed.
   a. DO NOT overextend the mast poles!
   b. There are red lines to show you are close to the end of the pole.
   c. The Mast should not ever be extended to a point that the Red Ring is showing on the pole. The red ring must be below the cutout for the clamp.

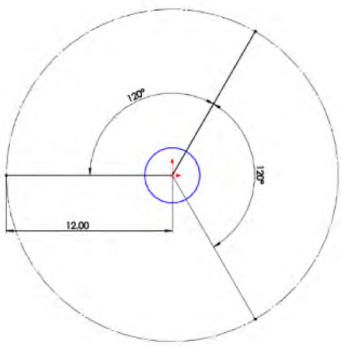
Guying the Mast

1. Retrieve the three Mast Guy Line Stakes.
2. Find three spots about 12' from the Mast. They should be roughly 120° apart.
3. Drive the stakes into the ground at a ~45° angle, away from the Mast.
4. Slide Guy Ring around mast.
5. Obtain the Guy Cables from the Drawer inside the Enclosure.
6. Attach an end to one of the three points on the Guy Ring.
7. Hook a Rope Tensioner to each Stake and pull a line of Rope through, leaving it loose to extend the Mast.
8. Extend the Mast, as necessary.
9. Once the Mast is extended, pull the excess further through the Easy - Tensioner to make the Guy Cables Taught.
   a. The Mast should not be angled.
   b. After tensioning the Guy Cables, securely fasten excess.

Rope Tensioning Fitting

Pull the rope through as shown to tension





Guy Rope Knot

The recommended knot for guy ropes is the Figure Eight on a Bight, as shown

Stabilizers

1. Remove the orange and red stabilizer cables from storage drawer.

2. Remove Red Safety Lanyards securing stabilizer legs and rotate legs to the ground. Raise chassis with Crank Handle approximately 12″.

3. Anchor orange cable to key slots on the long Lower Frame rails, see Figure 1. Orange cable mount keyholes are on the bottom of the Lower Frame below Cable Slot label. Anchor opposite end to slot in stabilizer leg. Repeat for remaining orange cables.

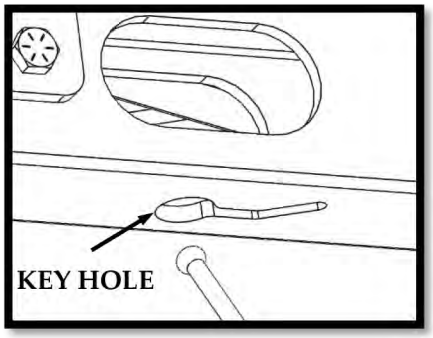


Figure 1

4. Lower chassis Pull Handle to ground before connecting red cables. Anchor red cable to key slot on the lower frame short end rail and cross over to opposing leg, see Figure 2. Cable mount keyways are on the face of the short rails. Repeat for other red cables.

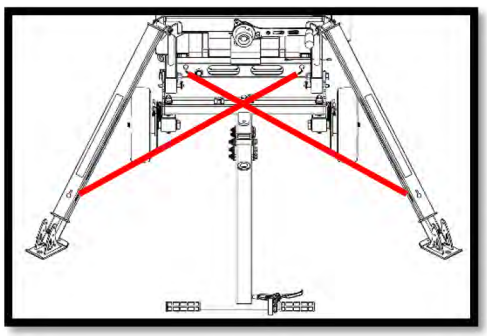


Figure 2

5. Lower the chassis with Crank Handle by rotating counterclockwise. This will force weight onto legs and slide them outwards until cables are taught, see Figure 3. Ensure feet slide smoothly and are not caught on a rough surface or obstacle. Lower chassis enough to stabilize where the wheels are not bearing any weight.

6. If SatRunner is not close to level due to uneven ground, reverse process to take weight off the stabilizers and extend leveling feet on the downhill side. Retighten the cables.

7. Rotate chassis handle upright and secure with Red Safety Lanyard.

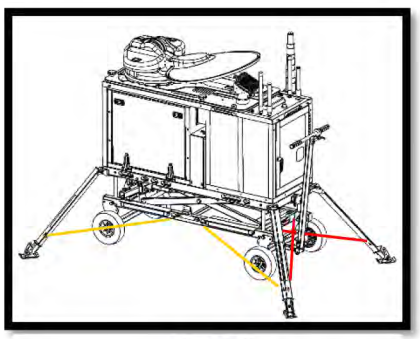


Figure 3

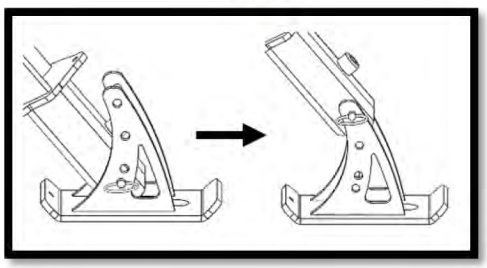


Figure 4

Troubleshooting

Symptom	*Possible Cause*	*Solution*
System is not turning on	Battery is dead	Charge the system
	Circuit breaker disconnected	Reconnect battery circuit breaker
	Master power control fuse blown	Find reason for blown fuse and repair then replace fuse
System not charging from AC	AC Source no good	Connect to known good AC source
	Shore/Gen switch does not match input plug	Set to appropriate AC input source
	PCM Input Power Source switch not set to AC	On PCM move Input Power Source switch to AC
	Circuit breaker in open state	Flip AC inlet circuit breaker switch to On.
Satellite not acquiring heading	GPS signal obstructed	Move to area with clear view of sky.
	GPS needs to be calibrated	With unit powered on and system stowed. Move unit in figure 8.
Satellite searches wrong part of sky	GPS signal incorrect	Stow the antenna and navigate back to the main menu. Press the wrench (advanced user menu) and verify the antenna heading. Verify the compass mode is set for desired operation.
System alarm activated	Loss of AC power with Input Power Source set to AC	If attempting to run from AC source, see system not charging from AC. If running from onboard battery set Input Power Source switch to DC.
	Battery Monitor alarm condition	Check battery monitor for alarm fault. Most commonly a low charge or voltage. Charge the system.

Satellite

Deploying

1. Set up your SatRunner in an appropriate location on solid, level ground with a clear view of the Southern sky.

2. Deploy stabilizer legs as shown on Stabilizer Setup Guide. Fully stabilize before proceeding with satellite deployment.

3. Turn on the red Master Power switch to the SatRunner, see Figure 1 red circle.

4. Wait 10 seconds, and then push the green Winegard Power button, see Figure 1 green circle. The satellite computer screen Figure 1 blue rectangle will light up and go through a diagnostic check.

5. Allow the Winegard controller to boot up and establish a dual GPS heading. When the green "Find Satellite" button comes on, you are ready to continue. During this process, set-up your generator or shore power connections (if applicable).

6. Press the green "Find Satellite" button on the Winegard controller screen (see picture). The satellite signal acquisition system is automatic from this point.

7. The Winegard dish will begin moving and search for the satellite. This process can take anywhere from 3 to 10 minutes. When the red "Stow Antenna" button comes on, you are connected to the satellite, but broadband will take a few more minutes. When the "signal" message on the bottom left of the screen reads "Signal Online", allow another minute for the Cradlepoint to prioritize traffic to the satellite. You are now connected to the High-Speed Ka-band ViaSat satellite broadband.

Figure 2

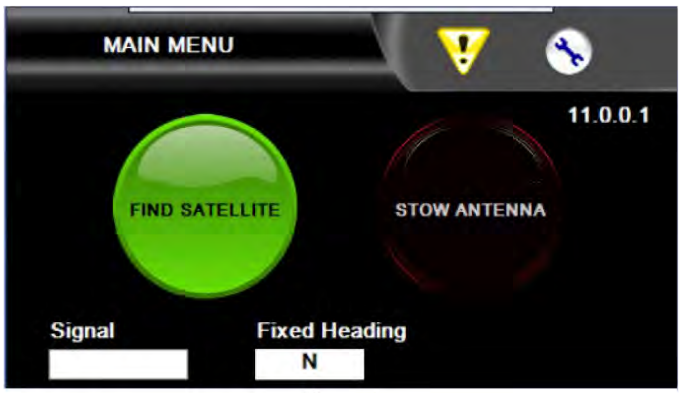


Figure 3

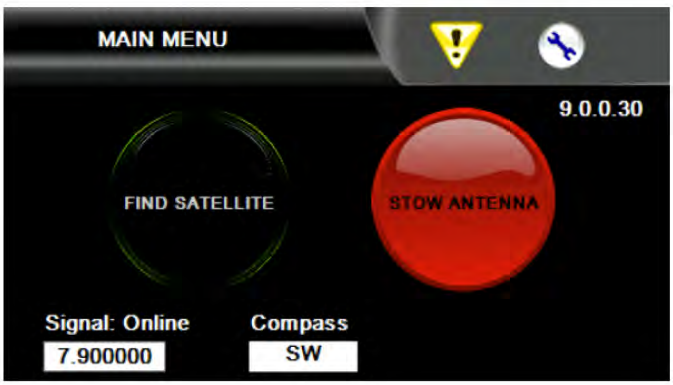


Figure 4

Stowing

1. Stowing is the reverse of deploying. Push the red "Stow Antenna" button to start the process.

Initial Setup

1. Turn on all circuit breakers located on the rear of the PCM. (1 – 4)
   a. For 1 and 2 rotate the yellow lever upwards until clicked into position.
   b. For 3 and 4 flip the toggle switches up.

2. Connect Shore AC power to Shore AC Inlet (1) and rotate Power Inlet Selection Switch to Shore (2).

3. Set Source Power Switch to AC on front of the PCM.
4. Charge unit completely until Battery Monitor synchronizes to the full state (approximately 1 hour).

5. Compensate the compass as necessary per manufacturer specifications.

6. The Cradlepoint router is preconfigured for the SatRunner. If other networking changes are required consult an IT professional.

7. Perform initial setup on generator. Follow manufacturer specifications. This includes, but not limited to:
   a. Fill with oil
   b. Fill with gasoline
   c. Check for leaks

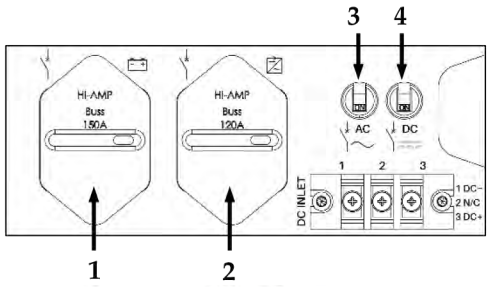


Figure 1

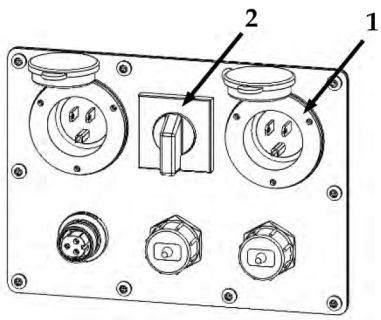


Figure 2

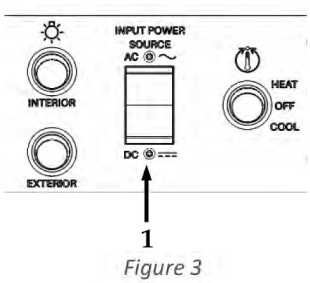


Figure 3