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SPG366A-600

READ AND FOLLOW ALL OF THE INSTRUCTIONS AND SAFETY MESSAGES LISTED BELOW AND LABELED ON THE TRAILER BEFORE OPERATION. DEATH, DISMEMBERMENT, OR SERIOUS INJURY TO YOU, YOUR PASSANGERS, AND OTHERS ON THE ROAD MAY RESULT IF THESE INSTRUCTIONS ARE NOT FOLLOWED. MAKE SURE ALL OPERATORS UNDERSTAND THESE INSTRUCTIONS.

CONNECTING THE TRAILER

1. Lower the coupler onto the ball hitch on the vehicle. Make sure it is properly fastened.
2. Push down on the handle located on the top on the coupler to lock the coupler in place.
3. Connect the safety chains. **Do NOT tow the trailer without the safety chains securely attached to the tow vehicle. Do NOT tow the trailer by the safety chains alone.**

The left chain crosses underneath the trailer's tongue and hooks to the right side of the tow vehicle's permanent hitch frame or structure. The right chain hooks to the left side in the same manner. The chains need slack to allow your vehicle to make turns. Make sure these chains attach securely to your tow vehicle and do not drag on the roadway.

4. Connect the trailer's plug to the vehicle. This trailer is equipped with a 4-way flat plug. The wire harness needs slack to allow your vehicle to make turns. **Do NOT** allow these wires to drag on the roadway.
5. Make sure all lights on the tow vehicle and trailer lights function properly.

TOWING

1. Do not exceed 55 mph on highways. Do not exceed any posted speed limits.
2. For off-road use, do not exceed 20 mph.
3. Slow down for curves, adverse weather, hazardous road conditions, road construction, expressway exits, and emergency vehicles.
4. Larson Electronics' does not recommend using cruise control or overdrive when towing.
5. Allow at least 4 seconds between you and the vehicle in front of you. If you are driving in adverse weather, allow at least 5 seconds.
6. Persistent side to side motion is not normal. If this occurs at a certain speed, it is a signal that whipping will likely occur if speed is increased. If you notice this behavior immediately slow down and maintain at least 10 mph below the speed this sway was first noticed.
7. For prolonged towing, it is recommended to attach tie-down straps to the solar panels' frame and secure to the trailer.

DEPLOYING

1. Deploy rear outriggers.

WARNING: these MUST be deployed while the trailer is still attached to vehicle's hitch. The SPG366A solar trailer is



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rear heavy. Failure to do so will result in the unit tipping backwards, driving the solar panels into the ground, damaging and/or destroying the equipped solar panels.

2. Deploy front outriggers and/or trailer's front wheel jack.
3. Disconnect the trailer plug from vehicle.
4. Unlock trailer's coupler and jack the front of the trailer up to drop the vehicle's ball.
5. Pull vehicle forward and away from trailer.
6. Using all four outriggers, level the trailer.
7. Remove transport braces. These braces are labeled A, B, and C. This is the suggested order of removal.
8. Remove solar panel tie pin.
9. Extend solar panels to upper vertical position. Make sure the safety latch engages **completely**. *This is a **two** person operation. Failure to use **two** or more operators may result in personal injury and/or damage to the solar panels.*
10. Lower the solar panels, **one** at a time, to the horizontal position and insert safety pins A, B, and C. Ensure the pins are fully inserted and locked into place. Failure to do so may result in damage to the solar panels.
11. Rotate the solar panel's extension jack handle to desired height.

Optional steps:

1. Removing trailer's tongue: On the left side of the trailer is the tongue release lever. Pull the lever out away from the trailer and rotate to lock into place. The tongue can now be removed.
2. Removing trailer's wheels and axles: On the rear of the trailer are the axle release levers. Each wheel has its own axle assembly. One at a time, pull the lever out and away from the trailer and rotate to lock into place. The axle assembly can now be pulled out and away from the trailer. Repeat for remaining axle.

OPERATION

Once the trailer is fully deployed, it is ready for operation.

1. Unlock the compartment door to access the internal controls
2. Facing the trailer, to the right is the light mast and air compressor controls. To the left is the power disconnect switch.
 - a) The power disconnect switch cuts power from the batteries to the internal components.
 - b) The switch labeled "Lights" turns on/off the light heads mounted to the top of the pneumatic mast. Up for on, down for off.
 - c) The switch labeled "Air Compressor" turns on/off the air compressor. Turning the compressor on will extend the pneumatic mast. Allow the compressor to completely fill the mast. The compressor will shut off automatically. For extended deployment, it is recommended to leave the air compressor on to ensure the mast remains fully extended.



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- d) The yellow turn handle opens the mast's purge valve. Doing so will lower the pneumatic mast. The orange air line running from the base of the mast through the floorboard of the trailer is the mast's air exhaust line.
1. It is recommended to store all braces within the trailer. Failure to attach the safety braces during transport may result in damage to the solar panels.
 2. For unattended deployment, it is recommended to lock the compartment door to reduce tampering of the tower's controls.

PREPARATION FOR TRANSPORT

If unit is deployed, reverse deployment steps before transporting:

1. Purge pneumatic mast of all air
2. Power off lights
3. Attach trailer wheels and tongue. The wheels are labeled left and right sides. Ensure the label is facing upwards before inserting axles. Ensure axles and trailer tongue and inserted properly and release levers are securely locked into place.
4. Lower solar panel extension jack to lowest position.
5. Remove safety pins A, B, and C from solar panel.
6. Using **two** people, raise solar panels from horizontal to their upright position.
7. Using **two** people, release the safety latch and lower solar panels from the vertical position.
8. Insert solar panel tie pin.
9. Insert transport braces A, B, and C and lock into place with safety pins.
10. Lower front outriggers and/or trailer's front wheel jack.
11. Back up tow vehicle and position the vehicles ball hitch underneath the trailer's coupler.
12. Lower the front outriggers and/or trailers front wheel jack until the ball hitch securely drops into the trailer's coupler. Lock the coupler into place.
13. Connect the trailer's safety chains and 4-way trailer plug to the tow vehicle.
14. Raise the front outriggers and trailer wheel jack (if deployed). Ensure these are locked into the upright position.
15. Raise the rear outriggers. Ensure these are locked into the upright position.

The solar trailer is now ready for transport. Please see towing instructions for more info.

