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> Velarium 68 inch Black 12V Power/Idler Arm Instruction Manual

Velarium VP6811

Velarium 68" Black 12V Power/Idler Arm Instruction Manual

Model: VP6811

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Velarium 68" Black 12V Power/Idler Arm. Please read this manual thoroughly before installation and use to ensure proper function and safety. The Velarium Power/Idler Arm is designed for robust performance, featuring extruded arms, 12V powered operation, and patent-pending pitch adjustment. It is also retrofittable to other brands of awnings.

SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure all power is disconnected before installation or maintenance.
- Use appropriate personal protective equipment (PPE) during installation.
- Do not operate the arm if any components are damaged.
- Keep hands and clothing clear of moving parts during operation.
- Refer to a qualified technician for any repairs beyond basic maintenance.

PRODUCT COMPONENTS

The Velarium 68" Black 12V Power/Idler Arm set includes the following main components:

- 68" Power Arm (12V)
- 68" Idler Arm
- Mounting Hardware (specific items may vary, refer to packaging)



Figure 1: Velarium 68" Power/Idler Arm installed on an RV with awning extended. This image shows the robust extruded arms supporting the awning fabric.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your Velarium Power/Idler Arm. It is recommended that installation be performed by two individuals.

Tools Required:

- Drill
- Measuring Tape
- Level
- Wrench Set
- Screwdriver Set
- Sealant (marine-grade recommended)

Installation Steps:

1. **Preparation:** Ensure the mounting surface on your RV or vehicle is clean, flat, and structurally sound. Identify the optimal mounting points for both the power and idler arms, ensuring they are level and correctly spaced for your awning.
2. **Mounting the Arms:**
 - Position the power arm and idler arm brackets against the mounting surface.
 - Mark the drilling locations through the pre-drilled holes on the brackets.
 - Drill pilot holes as per the recommended size in the instruction sheet provided with the hardware.
 - Apply sealant around the drilled holes before securing the brackets with the provided fasteners. This prevents water intrusion.
 - Attach the arms to the secured brackets.

3. Electrical Connection (for Power Arm):

- Connect the 12V power arm wiring to your vehicle's 12V DC power supply. Ensure correct polarity (positive to positive, negative to negative).
- It is recommended to connect through a fused circuit to protect the system.
- Test the power arm's extension and retraction before proceeding.

4. **Awning Attachment:** Securely attach your awning fabric and roller tube to the Velarium arms according to your awning manufacturer's instructions.

5. **Pitch Adjustment:** The Velarium arms feature a patent-pending pitch adjustment mechanism. Adjust the pitch to your desired angle for optimal shade and water runoff. Refer to the operating section for detailed adjustment instructions.

OPERATING INSTRUCTIONS

Extending the Awning:

1. Ensure the area around the awning is clear of obstructions.
2. Activate the 12V power switch for the awning. The power arm will begin to extend, pulling the awning fabric out.
3. Allow the awning to extend fully or to your desired length. Release the switch when the awning is in position.

Retracting the Awning:

1. Ensure the awning fabric is free of debris.
2. Activate the 12V power switch to retract the awning. The power arm will pull the awning back into its housing.
3. Ensure the awning is fully retracted and secured before travel or in windy conditions.

Manual Override:

In case of power failure, the Velarium Power/Idler Arm features a manual override function. Locate the manual override mechanism (refer to the diagram in your separate awning manual if applicable) and follow the instructions to manually extend or retract the awning. This typically involves a crank or release lever.

Pitch Adjustment:

To adjust the awning's pitch, locate the adjustment points on the arms. These allow you to change the angle of the awning for better shade or water drainage. Loosen the locking mechanism, adjust the arm to the desired pitch, and then re-secure the locking mechanism firmly.

MAINTENANCE

Regular maintenance ensures the longevity and smooth operation of your Velarium Power/Idler Arm.

- **Cleaning:** Periodically clean the arms with mild soap and water. Avoid abrasive cleaners that could damage the finish.
- **Lubrication:** Lightly lubricate moving joints and pivot points with a silicone-based lubricant annually or as needed to ensure smooth operation.
- **Inspection:** Regularly inspect the arms, mounting hardware, and electrical connections for any signs of wear, damage, or corrosion. Tighten any loose fasteners.
- **Winterization:** In cold climates, ensure the awning is fully retracted and secured during winter months to prevent damage from snow and ice accumulation.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Arm does not extend/retract	No power; Blown fuse; Loose electrical connection; Motor malfunction.	Check 12V power supply; Inspect and replace fuse if necessary; Secure all electrical connections; Contact support if motor is faulty.
Arm operates slowly or with difficulty	Lack of lubrication; Obstruction; Low voltage.	Lubricate moving parts; Check for obstructions; Verify 12V power supply voltage.
Awning sags or is uneven	Incorrect pitch adjustment; Loose mounting hardware.	Adjust pitch evenly on both arms; Tighten all mounting bolts.

SPECIFICATIONS

- **Model:** VP6811
- **Arm Length:** 68 inches
- **Color:** Black
- **Power Requirement:** 12V DC
- **Item Weight:** Approximately 50 pounds (for the set)
- **Product Dimensions:** 85 x 7 x 7 inches (packaging/shipping dimensions)
- **Features:** Manual override, Patent-pending pitch adjustment, Robust extruded arms, Retrofittable design.
- **UPC:** 691835350349

WARRANTY INFORMATION

Velarium products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product packaging or visit the official Velarium website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to order replacement parts, please contact Velarium customer support. Contact information can typically be found on the product packaging or the official Velarium website. For online resources, you may visit the [product page on Amazon](#) for additional details and customer reviews.

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