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Tekonsha p3 installation manual

Tekonsha prodigy 3.

Electronic Brake Control for trailers: A comprehensive guide READ THIS FIRST: Before installing or operating the Brake Control, carefully read and follow all instructions. Keep these instructions with the Brake Control for future reference. Components of the Brake Control: * Power Knob * Manual Slide Knob * Bracket Mounting Holes * Bi-Colored Light * Level Knob Important Facts to Remember: 1. Do not install or operate RF-generating items near the Brake Control (less than 12" away). 2. CAUTION: Reversing the connection on a break-away battery will destroy the Brake Control. 3. CAUTION: Disconnect the trailer plug from the tow vehicle before testing a breakaway switch, or you may damage the Brake Control. 4. The light indicates: * GREEN when the trailer is connected * RED when the brake pedal or manual is activated and the trailer is connected 5. The GREEN light draws 5 milliamperes of current from the tow vehicle battery, which would take over 10,000 hours to drain. 6. WARNING: Level adjustment is critical; it determines whether automatic braking response is delayed or aggressive. 7. This brake control activates by inertia and senses deceleration, generating an output that reflects the sensed inertia. 8. In a stationary state, the brake control will not apply the trailer brakes unless the Manual Slide Knob is actuated. 9. WARNING: The Gross Combined Weight Rating (GCWR) must never exceed the vehicle manufacturer's recommendation. Installation Guide: 1. CAUTION: Mount the Brake Control from -20 degrees nose down to 70 degrees nose up. 2. Securely mount the bracket to a solid surface using #6 x 3/8" screws, ensuring they do not damage the unit. 3. Adjust the control to the desired position and tighten the screws until snug. Leveling the Sensor: 1. WARNING: The brake control requires proper level adjustment; failure to set it correctly will result in harsh or ineffective braking response. 2. To properly level the sensor, park the trailer and tow vehicle on a level surface and connect the trailer to the tow vehicle. 3. Set the power knob to adjust the level and ensure it is correct before proceeding. To adjust the brake control, follow these steps: 1. Rotate the Level Knob fully clockwise. 2. Press down on the tow vehicle's brake pedal and hold it. Now, focus on setting the level of the brake control: 3. Turn the Level Knob counter-clockwise until the Bi-Colored Light starts to change from green to red. 4. Then, carefully rotate the knob clockwise until a shade of orange appears. 5. The Bi-Colored Light should show: * DIM ORANGE for a typical setting * BRIGHT ORANGE for an aggressive setting * DIM RED for a more aggressive setting 6. Release the brake pedal. When properly leveled, there should be minimal current flowing through the brake magnets in a static state with the foot pedal depressed. The brake magnets will hum when current is flowing. To adjust the power needed to stop the trailer during braking: 1. Connect the trailer to the tow vehicle. 2. Set the Power Knob to the 12 o'clock position. 3. Drive on a dry, level paved surface at 25 mph and apply manual slide knob. * If the trailer brakes lock up, turn down the power using the Power Knob (counter-clockwise). * If braking was not sufficient, turn up the power using the Power Knob (clockwise). 4. Repeat step 3 until you achieve maximum braking power. Now, fine-tune the level setting for most of your stopping needs: 1. Make several slow stops at 25 mph and observe how the trailer brakes respond: * If the brakes grab too much, you have an aggressive setting – rotate the Level Knob clockwise. * If the trailer tends to push the tow vehicle, you have a delayed setting – rotate the Level Knob counter-clockwise. 2. Repeat until you achieve the desired braking response. Remember to keep the front of the P3 horizontal and parallel when adjusting the brake control. Mount your P3 in a convenient location with an unobstructed view of the display and easy access to buttons. Choose from three wiring harness options: Pigtail Wiring Harness for standard connections, OEM Wiring Harness for vehicles with factory tow packages, or Traditional Bracket Mount for secure attachment. Once installed, follow these steps: 1. Set the level setting by pressing Menu/Options Button > Select "Brake Type" > Choose Electric or Hydraulic > Confirm. 2. Connect the trailer and ensure the display shows power to P3 with or without the trailer connected and the correct brake type setting. 3. Test by driving at 25 mph and fully applying the Manual Knob. Adjust power accordingly to prevent lock-up or insufficient braking. The P3 features an inertial sensor for proportional braking, which enhances trailer brake participation during braking. You can adjust boost levels (B1, B2, B3) to suit your trailer's weight and driving conditions. Cancel "BOOST" and "HOLD" by pressing the boost button continuously for five seconds with the brake pedal depressed. The display shows various vital statistics: * Battery Voltage: Displays vehicle battery voltage. * Stoplight Voltage: Shows voltage from stoplight switch when brake pedal is depressed. * Output Voltage: Average voltage provided to trailer brakes. * Output Current: Current provided to trailer brakes. Keep your P3 away from RF generating items (cell phones, radios) and avoid using it with non-Tekonsha testers. The device will hold the trailer with 25% power at a standstill for longer than 5 seconds. Regularly inspect and maintain your trailer's brakes: * Adjust brakes after the first 200 miles and at 3000-mile intervals. * Warm up the trailer's brakes before setting power to prevent damage. * Jack up the trailer, secure it on jack stands, and adjust the brake shoes until there's a slight drag on the wheel. Remember to always follow the manufacturer's guidelines for your P3. The new braking system provides improved responsiveness. It is essential to ensure that the power setting does not exceed a level that could potentially cause the trailer brake locks to malfunction. For more detailed guidance or technical support, please consult the contact details provided for assistance with warranties and other inquiries.