I'm not a robot

This guide provides comprehensive information on Hayman Reese electric brake controllers, essential for safe towing It covers various aspects, including understanding different types like proportional and time-activated controllers Installation tips, troubleshooting common issues, and maintaining optimal performance are also detailed within this manualUnderstanding Hayman Reese Brake ControllersHayman Reese brake controllers are essential components for safe towing, designed to regulate the braking force of a trailer or caravan, preventing skidding, swaying, or jack-knifing These controllers come in two primary types: proportional and time-activated, each with its own advantages Proportional controllers sense the towing vehicles braking force and apply the trailer brakes accordingly, offering smoother and more responsive braking Time-activated controllers, on the other hand, apply the brakes based on a preset time delay and intensity Understanding the differences between these types is crucial for selecting the right controller for your needs Hayman Reese controllers are known for their ease of use, slim designs, and flexible mounting positions Features like digital displays, manual override buttons, and self-diagnostic functions enhance control and safety Installation typically involves connecting the controller to the vehicles electrical system, ensuring a 12-volt negative ground system is in place Proper wiring connections are vital for optimal performance Hayman Reese also offers features such as Sync-Control, which allows the driver to adjust the brake application rate Overall, understanding the functionality and features of Hayman Reese brake controllers is key to ensuring a safe and controlled towing experienceTypes of Hayman Reese Brake Controllers: Proportional vs Time-ActivatedHayman Reese offers two distinct types of brake controllers: proportional and time-activated, each designed to meet different towing needs and preferences Proportional brake controllers, like the CompactIQ, sense the deceleration rate of the tow vehicle and apply the trailer brakes proportionally This system provides a smooth and responsive braking experience, mimicking the feel of braking without a trailer The braking force adjusts automatically to match the vehicles deceleration, enhancing control and minimizing wear on both the tow vehicle and trailer brakesTime-activated brake controllers, conversely, apply the trailer brakes based on a pre-set time delay and intensity level When the driver applies the brakes in the tow vehicle, the controller sends a signal to the trailer brakes after a specified delay, gradually increasing the braking force While simpler in design, time-activated controllers may not offer the same level of smoothness and responsiveness as proportional systems, particularly in varying driving conditionsChoosing between proportional and time-activated controllers depends on factors such as towing frequency, trailer weight, and personal preference Proportional controllers are generally preferred for heavier loads and frequent towing, providing superior control and safety Time-activated controllers can be a cost-effective option for lighter loads and occasional towingKey Features of Hayman Reese Brake ControllersHayman Reese brake controllers are designed with several key features to enhance safety, control, and ease of use during towing A prominent feature is the manual override button, allowing drivers to manually activate the trailer brakes independently of the tow vehicles brakes This is crucial in situations requiring immediate trailer braking or when stabilizing a swaying trailer The intuitive sync control feature enables drivers to adjust the brake application rate, tailoring the braking force to the specific trailer and load conditions, ranging from a soft to hard applicationMany models incorporate a digital display, providing real-time feedback on brake power output, sync settings, and error codes, ensuring users are constantly informed about the systems status The compact design of Hayman Reese controllers allows for flexible and discreet mounting options within the vehicle, and some models, like the CompactIQ, offer remote mounting capabilities, keeping the main unit hidden while providing convenient control via a remote dial Plug-and-play compatibility with Hayman Reese SmartClick harnesses simplifies installation, reducing setup time and ensuring secure connectionsSolid-state electronics contribute to the reliability and durability of the controllers An LED indicator provides visual confirmation of a secure connection between the tow vehicle and the trailer These features collectively provide a comprehensive braking solution for various towing applicationsGuardian Brake Controller: Features and BenefitsThe Hayman Reese Guardian Brake Controller is engineered to provide enhanced braking control, particularly suited for 4WDs, light caravans, and camper trailers Its design prioritizes user-friendliness, featuring a large, easily readable digital display that communicates vital information such as brake power output, sync settings, and error codes This ensures drivers are always aware of the systems performance and can promptly address any issuesThe push-button controls allow for simple adjustments to output and sync settings, enabling drivers to fine-tune the braking force to match their specific towing needs The inclusion of a thumb control manual provides an additional layer of control, allowing for manual application of the trailer brakes when necessary Its compact design facilitates easy mounting on the vehicles dashboard, ensuring it is within easy reach for adjustments while driving;The Guardian Brake Controller kit includes all essential components for straightforward installation, featuring a timer brake controller, a wiring harness, and mounting bracket hardware This comprehensive package, combined with its user-friendly interface, makes the Guardian Brake Controller an excellent choice for those seeking a reliable and easy-to-operate braking solutionCompactIQ Brake Controller: Remote Mounting and FunctionalityThe Hayman Reese CompactIQ brake controller distinguishes itself with its innovative remote mounting capabilities, offering greater flexibility in installation Unlike traditional units that require dashboard mounting, the CompactIQ allows the main unit to be discreetly installed, while the remote function dial and LED indicator can be conveniently mounted in a spare switch panel This design minimizes clutter and preserves the vehicles aestheticsAs a proportional brake controller, the CompactIQ automatically adjusts the braking force to match the vehicles deceleration, ensuring smooth and controlled stops This proportional braking enhances safety and reduces wear on both the towing vehicle and the trailer brakes The remote function dial allows drivers to easily adjust the braking force according to their speed and preference, providing optimal control and safety in various driving conditionsThe CompactIQ also features a manual override button, providing immediate control over the trailer brakes when needed This feature is crucial in emergency situations, allowing drivers to quickly and safely bring the trailer to a stop With its compact design, remote mounting capabilities, and advanced functionality, the CompactIQ is an excellent choice for those seeking a discreet and high-performance brake control solutionInstallation Guide: Hayman Reese Brake ControllerInstalling a Hayman Reese brake controller requires careful attention to detail Before starting, disconnect the negative cable Ensure you have all the necessary tools, including wire strippers, crimpers, and a multimeter Begin by selecting a suitable mounting location for the brake controller, ensuring it is within easy reach of the driver and doesnt obstruct any vehicle controlsNext, route the brake controller power harness towards the chosen mounting location, securing it with cable ties to prevent any interference Connect the wiring harness to the brake controller, following the manufacturers instructions Pay close attention to the wire colors and their corresponding functions If your vehicle has a Hayman Reese SmartClick brake control harness, utilize the plug-and-play feature for a quick and easy connectionProper grounding is crucial for optimal performance Ensure the brake controller is installed with a 12-volt negative ground system Once the wiring is complete, securely mount the brake controller using the provided hardware Finally, test the brake controller to verify it is functioning correctly before towing Refer to your specific Brake Controller Manual for correct wiring and installationWiring Connections: Step-by-Step InstructionsProper wiring is crucial for the safe and effective operation of your Hayman Reese brake controller Begin by disconnecting the negative terminal of your vehicles battery to prevent any electrical shorts Identify the four essential wires: power, ground, brake signal, and output to trailer brakes The black wire typically connects to the vehicles 12V power source, ensuring a reliable power supply to the controller Secure this connection with a fuse for added protectionNext, connect the white wire to a clean, solid ground point on the vehicles chassis A poor ground connection can lead to erratic brake controller behavior Locate the brake signal wire, usually found near the brake pedal switch Connect the appropriate wire from the brake controller to this signal wire, allowing the controller to detect when the brakes are appliedFinally, connect the wire designated for trailer brake output to the trailers electric brake wiring Ensure this connection is secure and properly insulated After all connections are made, double-check each wire for proper placement and secure connections before reconnecting the vehicles battery Consult your specific Hayman Reese brake controller manual for specific wire colors and configurations, as they may vary depending on the modelSync Control Feature: Adjusting Brake Application RateThe Sync Control feature on your Hayman Reese brake controller allows you to fine-tune the braking force applied to your trailer, ensuring smooth and controlled stops This feature enables drivers to adjust the rate at which the trailer brakes engage, ranging from a gentle, gradual application to a more assertive, immediate response Tailoring the brake application rate to match the load and road conditions enhances stability and minimizes the risk of trailer sway or lock-upTo adjust the Sync Control, locate the adjustment dial or buttons on your brake controller unit, often marked with + and - symbols or a graduated scale Experiment with different settings to find the optimal balance for your specific towing situation A softer setting is suitable for lighter loads and slippery surfaces, while a firmer setting provides more aggressive braking power for heavier loads and dry conditionsRegularly evaluate and adjust the Sync Control as needed, especially when changing the trailer load or encountering varying road conditions By mastering the Sync Control feature, you can optimize your towing experience, promoting safer and more confident journeys Refer to your Hayman Reese brake controller manual for detailed instructions on accessing and operating this valuable featureManual Override Button: Function and UsageThe manual override button on a Hayman Reese electric brake controller serves as a crucial safety feature, granting the driver direct and immediate control over the trailer brakes This button, typically located on the controllers face, allows for independent activation of the trailer brakes, separate from the tow vehicles braking system Its primary function is to provide manual intervention in situations demanding immediate or controlled trailer brakingIn scenarios such as trailer sway, loss of control, or the need for gradual deceleration without engaging the tow vehicles brakes, the manual override button proves invaluable By depressing or sliding the button, the driver can apply the trailer brakes proportionally, helping to stabilize the trailer and regain control This manual application can prevent or mitigate potential accidentsPracticing the use of the manual override button in a safe and controlled environment is highly recommended Familiarize yourself with its responsiveness and the degree of braking force it applies Remember, the manual override is a supplementary tool, not a replacement for proper braking techniques Refer to your Hayman Reese manual for precise details on the location and operation of the manual override button specific to your modelTroubleshooting: Common Issues and Error CodesHayman Reese electric brake controllers, while generally reliable, can occasionally encounter issues Understanding common problems and their corresponding error codes is crucial for efficient troubleshooting and ensuring safe towing A frequent issue involves wiring faults, such as loose connections, corroded terminals, or incorrect wiring These can lead to intermittent braking or complete brake failure Always inspect wiring connections thoroughlyAnother common problem arises from improper grounding A poor ground connection can disrupt the controllers operation, resulting in weak or erratic braking Ensure the controller is securely grounded to a clean, rust-free metal surface on the tow vehicle Over time, brake magnets within the trailers braking system can wear down, reducing their effectiveness Regularly inspect and replace worn brake magnetsError codes displayed on the controllers screen provide valuable clues to the nature of the problem Consult your Hayman Reese manual to decipher specific error codes Some common codes indicate short circuits, open circuits, or communication errors between the controller and the trailer brakes If you encounter persistent issues or are unsure about troubleshooting, seek assistance from a qualified technicianMaintenance and Care for Optimal PerformanceTo ensure your Hayman Reese electric brake controller provides reliable and consistent performance, regular maintenance and care are essential Begin by periodically inspecting all wiring connections Look for any signs of corrosion, looseness, or damage Clean corroded terminals with a wire brush and apply dielectric grease to prevent future corrosion Tighten any loose connections to ensure a secure electrical pathway Regularly check the brake controllers mounting to confirm it remains firmly attached to the vehicleVibrations from driving can gradually loosen mounting hardware Inspect the controller for any physical damage Cracks, dents, or other damage can compromise its functionality Keep the controller clean and free from dust and debris Use a soft, damp cloth to wipe down the exterior of the unit Avoid using harsh chemicals or abrasive cleaners, as these can damage the controllers finishBefore each towing trip, perform a brake test to ensure the controller is functioning correctly Adjust the controllers settings as needed to achieve smooth and effective braking If you store your vehicle for extended periods, disconnect the brake controller to prevent battery drain By following these simple maintenance tips, you can extend the lifespan of your Hayman Reese brake controller and ensure optimal performance for years to comeWhere to Buy Hayman Reese Brake Controllers and AccessoriesFinding the right Hayman Reese brake controller and accessories is crucial for ensuring safe and reliable towing Fortunately, several options are available to purchase these products, catering to various preferences and needs Reputable automotive retailers, such as Supercheap Auto, offer a wide selection of Hayman Reese brake controllers and related accessories These stores often have knowledgeable staff who can assist you in choosing the right controller for your vehicle and trailerFor those who prefer the convenience of online shopping, numerous online retailers carry Hayman Reese products BCF, Australias leading boating, camping, and fishing store, also offers a range of Hayman Reese brake controllers and accessories online and in their physical stores When purchasing online, be sure to check customer reviews and product specifications to ensure you are selecting the correct itemsSpecialty towing and trailer shops are another excellent source for Hayman Reese brake controllers These shops typically have a greater depth of product knowledge and can provide expert advice on installation and setup Additionally, consider checking with local RV dealers or camping supply stores, as they often carry towing accessories, including Hayman Reese brake controllers Always ensure that you are purchasing from authorized dealers to guarantee product authenticity and warranty coverage INSTRUCTIONS FOR THE INSTALLATIONAND OPERATION OFELECTRONIC TRAILERBRAKE CONTROL FOR 2, 4, 6 & 8 BRAKESYSTEMSIMPORTANT: READ ANDFOLLOW THESE INSTRUC-TIONS CAREFULLY. KEEP THESEINSTRUCTIONS IN YOUR TOWVEHICLE FOR FUTURE REFERENCE.THIS PACKAGE INCLUDES:(1) Brake Control Unit(1) Mounting Bracket(4) Mounting Screws(1) Wire Tap Connector(1) Warranty CardTOOLS REQUIRED:Assorted end wrenchesDrill with " bitWire connector crimp toolProbe type circuit testerWire cutter/stripperScrewdriver or " Nut DriverMATERIAL REQUIRED:10 Ga. wire30 Amp auto-reset circuit breakerAssorted ring terminal & butt con- nectors4" cable ties (6-10)CONTROLSOUTPUT CONTROLThe Output Control establishes the maximum amount ofpower available to the trailer brakes.As the Control is rotated up more power will be availableto the brakes when the brake pedal is pressed or the manual control is used.The Output Control would be adjusted during initial setup,when trailer load changes, when different trailers are usedor to adjust for a change in road conditions.The Output setting is shown on the digital display when atrailer is connected and the brake pedal is pressed or theManual Control is actuated.The Output setting is shown as 0 through 10 with 0 beingthe minimum and 10 the maximum.SYNC CONTROLThe Sync Control is located on the left side of the BrakeControl Unit, forward of the mounting bracket.The Sync Control adjusts trailer brake aggressiveness.The trailer brakes become more aggressive as the switchis moved toward the front of the tow vehicle.To view the Sync setting on the display, press the brakeOUTPUT CONTROLOUTPUT / SYNCDISPLAYMANUAL CONTROLSYNC CONTROLMORE OUTPUTLESS OUTPUTPUSH TO APPLY BRAKES MORE AGGRESSIVE BRAKINGLESS AGGRESSIVE BRAKINGpedal (trailer must be connected) and move the Sync Controlslightly. The display will change to the Sync mode.The Sync setting is shown as 10through 90with 10beingthe least aggressive and 90being the most aggressive.The Sync adjustment has no effect on the manual control.The Sync Control would be adjusted for individual driverpreference or changing road conditions.MANUAL CONTROLThe Manual Control is located on the front of the BrakeControl Unit at the right side.The Manual Control only applies the trailer brakes and wouldbe used during initial setup and in situations where it isdesirable to reduce speed slowly.When the Manual Control is pushed to the left, the controlbegins to apply the trailer brakes. The further to the left it ispushed the harder the brakes are applied until the maximumset by the Output Control is reached.The Output setting will be shown on the display and can beadjusted when using the Manual Control.The Manual Control activates the tow vehicle and trailer stop-lights.SETUPPreliminary AdjustmentsWith the trailer connected press and hold the brake pedal, the Display will show the Output setting.Adjust to 2.0 by turning the control up or down as needed.While still holding the brake pedal move the Sync Controlslightly, the Display will change to the Sync setting.Adjust to 40by sliding the Sync Control ahead or back as necessary.TEST DRIVEIn an open area, such as a large parking lot, drive forward and apply the trailer brakes using the Manual Control.If the trailer brakes are weak adjust the Output Control up.If the trailer brakes jerk or lockup adjust the Output Controldown.Repeat this step until firm braking is felt with out jerking orlockup.Once the Output is set, drive forward and press the brakepedal, the tow vehicle and trailer should make a smooth stop.If the stop seems slow and more aggressive braking isdesired, move the Sync Control rearward while holding thebrake pedal.If the stop seems too aggressive adjust the Sync Controlrearward while holding the brake pedal.After making a Sync adjustment the Display will show the setting until the brake pedal is released.Make several stops at various speeds and adjust the Sync until stops are smooth and firm. Slight adjustment of theOutput Control may also be desirable.NOTE: If any problems occur during Setup refer to theTrouble Shooting section of these instructions.DIGITAL DISPLAYThe Digital display shows the Output setting when thecontrol is activated. It is used to setup and monitor theBrake Control and can be used when trouble shooting.SINGLE DECIMALCONTROL ACTIVATEDNO TRAILER CONNECTEDOUTPUT DISPLAYCONTROL ACTIVATEDTRAILER CONNECTEDSYNC DISPLAYBRAKE PEDAL PUSHEDSYNC CONTROL ACTIVATEDTRAILER CONNECTEDOVER LOAD DISPLAYSHORTED OR OVER LOADEDBRAKE CIRCUITSEE TROUBLE SHOOTING GUIDEERROR DISPLAYINTERNAL CONTROL ERRORSEE TROUBLE SHOOTING GUIDELEVELLEVELLEVELLEVELLEVELDISPLAY MODESUSAGE TIPSLight pressure on the brake pedal will activate the trailer'sbrakes with no effect on the tow vehicle's brakes. This isuseful for gradual slowing on steep grades or before stops.Periodic adjustment of the Sync and Output controls may be necessary to correct for changing road conditions, trailer loading, brake wear, and/or driver preference.On some vehicles, operating the Brake Control's Manualcontrol will not disengage "Cruise Control".When Towing (in most applications) with Hazard Flasherson the Digital Display will flash with the Hazard Flashers. Ifthe Brake Control is set aggressively pulsing may be felt inthe trailer brakes.Installation of a Pulse Preventor will isolate the brake con-trol from the flashers and eliminate the flash/pulse situa-tion.TROUBLE SHOOTING GUIDEWITHOUT TRAILER CONNECTEDWITH TRAILER CONNECTEDTEST WITHOUT TRAILER FIRSTCONDITIONDISPLAYPROBABLE CAUSESPOSSIBLE SOLUTIONDECIMAL ONLYBLANKPEDALMANUALOUTPUT SETTINGFLASHING OLERRORDECIMAL ONLYOUTPUT SETTINGFLASHING OLERROROUTPUT SETTINGLEVELLEVELLEVELLEVELLEVELLEVELLEVELLEVELLEVELLEVELBLANKLEVELDECIMAL ON ALL THE TIMEDECIMAL POINT DOES NOT LIGHTWHEN BRAKE PEDAL OR MANUALCONTROL IS USEDNO POWER TO CONTROL, NO GROUND,REVERSED BLACK AND WHITE WIRES,CIRCUIT BREAKER BLOWNNO CONNECTION OR INCORRECT CONNECTION AT STOPLIGHT SWITCH, BLOWN FUSE IN STOPLIGHT CIRCUITCHECK AND REPAIR CONNECTIONSREFER TO "WIRING" SECTIONCHECK AND REPAIR CONNECTIONSREFER TO "WIRING" SECTIONCHECK AND REPAIR CONNECTIONSREFER TO "WIRING" SECTIONLOCATE AND CORRECT SHORTRETURN UNIT TO DEALER FOREVALUATIONCONFIRM TRAILER CONNECTORTERMINAL POSITIONSRETURN UNIT TO DEALER FOREVALUATIONCHECK AND CORRECT CONNECTORWIRE POSITIONSCHECK AND CORRECT CONNECTORWIRE POSITIONSCONFIRM CONNECTION TO TRAILERCONNECTOR, CONFIRM CONNECTORTERMINAL POSITIONS, CHECK TRAILERTROUBLE SHOOT TRAILER BRAKECIRCUIT PER BRAKE MANUFACTURER'SINSTRUCTIONSCHECK AND REPAIR CONNECTIONSREFER TO "WIRING" SECTION,CHECK STOPLIGHT CIRCUITRED WIRE CONNECTED TO THE WRONG SIDE OF THE STOPLIGHT SWITCH ORTO WRONG SWITCH (CRUISE CONTROL)BRAKE CONTROL UNIT MISWIREDSHORT IN BLUE WIRE CIRCUITINTERNAL BRAKE CONTROL PROBLEMNO CONNECTION BETWEEN BRAKE CONTROLAND BRAKES - BLUE WIRE CIRCUITMISWIRED TRAILER CONNECTORDECIMAL POINT DOES NOT LIGHTWHEN BRAKE PEDAL IS PUSHEDDOES LIGHT WITH MANUALDISPLAY SHOWS OUTPUTSETTINGDISPLAY SHOWS OL WHEN ACTIVATEDDISPLAY SHOWS Er NO TRAILER BRAKES, PEDALOR MANUALNO TRAILER BRAKES, PEDALOR MANUALNO TRAILER BRAKES, PEDALOR MANUALSHORT OR OVERLOAD IN TRAILER BRAKESNO TRAILER BRAKES, PEDALOR MANUALINTERNAL BRAKE CONTROL PROBLEMWEAK OR NO TRAILER BRAKESMISWIRED TRAILER CONNECTORTRAILER BRAKES ON ALL THETIMEMISWIRED TRAILER CONNECTORTowing Products47774 Anchor Court WestPlymouth, MI 48170TOWING PRODUCTS 2003PRINTED IN CHINA05500-037 1 of 3 rev. 2/6/0305500-037 2/6/03 English 3/6/03 2:05 PM Page 1

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