



Brake Controller Operation & Installation Guide

OPERATION AND INSTALLATION INSTRUCTIONS

The WiTi Brake Controller connects to the Vehicle Unit with a dash mounted dial for gain adjustment and manual override. It is a fully proportional brake controller which applies brakes on the caravan or trailer in proportion to the rate of deceleration of the tow vehicle. The WiTi Brake Controller offers two significant safety innovations, Hill Descent Control and Brake Smoothing.

Hill Descent Control improves safety and control when descending steep hills. All proportional brake controllers use G-force to determine the braking force applied to the brakes. The firmer the braking the more g-force is generated and braking is applied on the caravan or trailer proportionally. However, when descending steep hills the driver of the tow vehicle typically feathers the brakes to maintain speed - this generates no g-force as there is no deceleration. As a result there is no braking applied to the caravan or trailer and the tow vehicle is being pushed down the hill. WiTi Hill Descent Control eliminates this by measuring the angle of descent and applying the brakes in proportion to the gain setting on the dash mounted dial. The steeper the descent the more braking is applied resulting in a safer more controlled descent.

Brake Smoothing eliminates the sharp and annoying jerking that may occur with other brake controllers. With WiTi the output to the electric brakes on the caravan or trailer is measured and smoothed electronically to provide a more comfortable and safer towing experience and eliminating harsh jerking under firm braking.



WARNINGS & SAFETY INSTRUCTIONS

Do not operate WiTi Brake Controller unless you have read and understood this manual and WiTi is installed as per the instructions.

- Ensure the dial is installed in a location on the dashboard where it is easy to reach and the LED light is visible from the drivers seat.
- When the vehicle is successfully paired to a corresponding trailer unit the LED on the brake controller will illuminate.
- When applying brakes the LED light will pulse.
- To adjust braking sensitivity the dial can be turned to the left to reduce trailer braking or to the right to increase trailer braking. The dial incorporates a centre detent or click which will assist the user to adjust the brake controller by feel without having to remove his / her eyes from the road. The centre position will apply 50% gain to the braking on the trailer. Adjust the brakes to a level where trailer braking is felt to assist with overall braking of the tow vehicle and caravan. Different trailer weights and driving conditions will require different settings to provide safe braking operation on the trailer, experiment with the settings to determine the ideal breaking settings for your trailer or caravan.
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Contents

1. Dash Monted Dial and LED
2. 5 metre cable with RJ45 connectors either side



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INSTALLATION INSTRUCTIONS

Brake Controller Installation

Install the Brake Controller dial in a position on the dash where it is easily accessible and the LED light is visible from the drivers seat. It may be possible to install into an existing blank switch panel. Drill a 6mm hole for the dial and secure it with the nut and washer supplied.

Drill a 3mm hole for the LED and feed the LED light and fibre optic cable through the hole. The fibre optic cable is fed into the housing of the dial at the front. Trim the fibre optic cable to size making sure that it fits snugly in the housing and into the dash. Trim small sections off at a time until the correct length is determined. The Led fibre optic cable is flexible to allow for variations in fitting. It is recommended that the LED Light is fitted above the dial at a 12 o'clock position.

Connect the dial to one end of the RJ45 cable and feed the cable to wherever the Vehicle Unit was installed. Then plug the RJ45 cable into the Vehicle Unit RJ45 socket.