

# PRODUCT INFORMATION

## RAISED TRAY TRANSMISSION INHIBIT CONTROLLER

Part No. 12595

### Operation and Use

This controller monitors transmission gear selection and tray position.




When the tray is raised, the controller restricts gear selection to first and neutral gears. When in first gear, the signal from the transmission control to the upshift solenoid is removed, preventing any further changes above first gear. A warning light on the instrument panel is illuminated and an alarm is activated when the controller is preventing any further upshift.

Once the tray is fully lowered, the upshift signal is reactivated allowing normal gear change operation.

The OEM bed raise switch prevents the transmission from selecting reverse. The warning light will operate at all times while tray is raised and the alarm will only activate while gears are locked in first gear.

### Controller Status Indicator Operation

State	Indicator Sequence
Battery Power-up	<ul style="list-style-type: none"> <li>All indicators will turn on.</li> <li>All indicators will turn off.</li> <li>After power-up, the controller will revert to normal operation.</li> </ul>
Status Indicator in Operation	<p><b>RED</b> – Fault.</p> <ul style="list-style-type: none"> <li>If outputs have problems, this will turn on.</li> <li>Outputs 1 &amp; 2 – high current outputs: checked for over current.</li> <li>Output 3 – not checked as it is a low side driver.</li> <li>Output 4 – checked for correct output voltage.</li> <li>Temperature – checked for board temperature exceeding 80 °C.</li> </ul> <p><b>YELLOW</b> – Pulses during normal operation, indicates system OK.</p> <ul style="list-style-type: none"> <li>Flashes on and off at one-second intervals (on for one second, off for one second).</li> </ul> <p><b>GREEN</b> – On for normal operation.</p>

	Alarm Indication
	System Status
	Power Indication

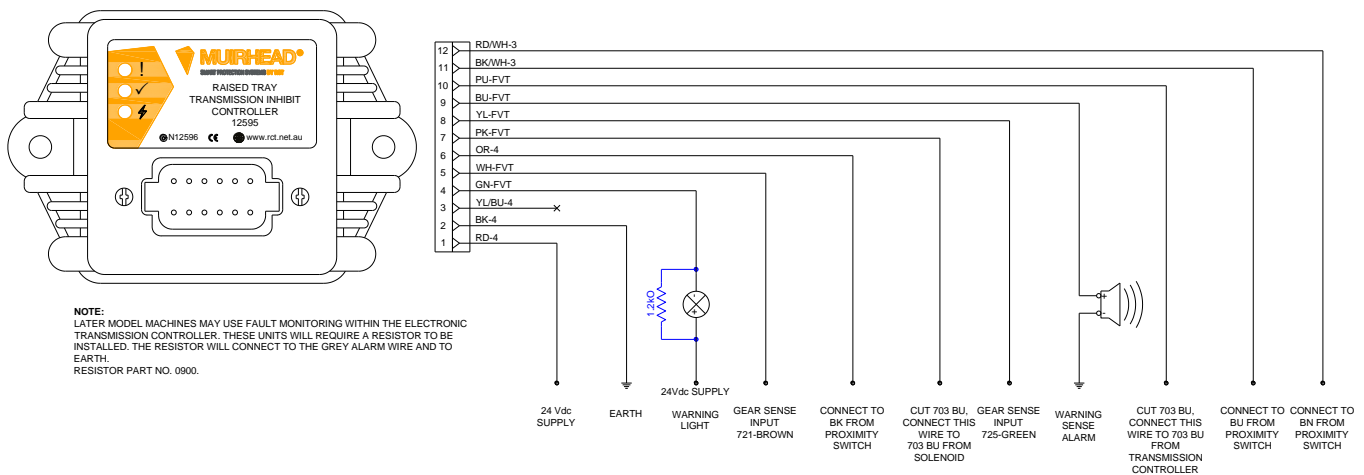
### Installation Guide

1. Install the controller in a suitable location.
2. Refer to the following wiring connections table and external wiring diagram to connect the controller. It is recommended that the wiring is installed alongside the OEM wiring ensuring that it is secured at regular intervals; this will provide protection from heat and abrasion, and any other excess damage that may occur with extended vehicle operation. When securing the wiring to the OEM wiring, ensure that the loom is away from moving vehicle parts, which could lead to loom damage.

## Wiring Connections

No.	Function	Description
1	Ignition +VE	Connect to the ignition supply at the key switch (supply 24 V DC).
2	Ground	Earth (ground).
3	Output 1	Not used
4	Output 3	LED +VE on warning LED in instrument panel.
5	Input 1	Gear sense input position 1. 5V pull up from machine ECM when inactive.
6	Input 3	Machine tray up input. Switched Hi or Lo when active (default Hi).
7	Input 4	OEM ECM upshift solenoid (24 V).
8	Input 2	Gear sense input. 5V pull up from machine ECM when inactive.
9	Output 4	Audible alarm output. + VE on warning alarm.
10	Output 2	OEM upshift solenoid output. 24 V DC 5 A.
11	- VE	Proximity switch - VE
12	Supply +VE	Proximity switch + VE

## External Wiring Diagram (543b)



**NOTE:**  
WHEN USING LED PART NO 11111, OR AN EQUIVALENT NO LOAD LED, A RESISTOR SHOULD BE CONNECTED ACROSS THE LED TO PREVENT CURRENT LEAKAGE WHICH CAUSES A FALSE INDICATION. RESISTOR TYPE IS (1W 1.2k? RCT PART NUMBER 11981)

For detailed product information, please contact your local RCT branch for a copy of the product manual [M0949](#). For configuration settings and adjustment, please contact your local RCT branch to purchase the Muirhead® Programming Utility, part number 13647.

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