

Normal Operation

The Tow-Pro™ Elite and Tow-Pro™ Classic will indicate both Mode¹ and Fault Condition through colour and flash sequences of the LED indicator. The table below shows how the Tow-Pro™ will indicate normal operation of the unit.

NOTE: LEDs will glow full at brightness when the remote head control knob is adjusted or manual override is pressed. After release of the gain control knob the LED brightness will reduce - This is designed to be less intrusive on driver's vision at night.

Status	Indication	
	Mode	User Controlled
Calibration	Blue/Green flashing	N/A
Sleep Mode ³	Blue ¹ or Green ² Breathing on button push ⁴	
Trailer Connected	Solid Blue	Solid Green
Braking	Blue to Red ⁵	Green to Red ⁵

1. Tow-Pro Elite model only.
2. Tow-Pro Classic model only.
3. Sleep Mode occurs when there is no trailer connected to the vehicle.
4. Breathing, as opposed to flashing, is the LED gradually getting brighter until its brightest point and then gradually dimming until off.
5. The LED will vary between the Mode Colour (Blue or Green) and Red depending on the braking force.

Fault Codes

The Tow-Pro™ features sophisticated diagnostics to warn the operator of faults in the vehicle and trailer brake wiring. Wiring faults are indicated by a series of colour coded flash patterns on the Tow-Pro™ LED.

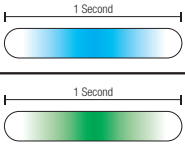
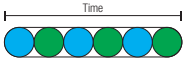
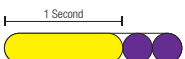


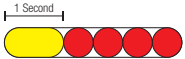

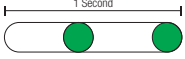
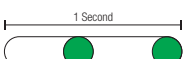
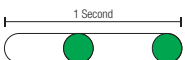
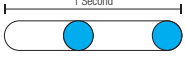
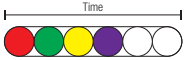



Most faults turn out to be something simple such as a poor connection from a dirty trailer socket, however a fault indication should not be ignored! It is a warning; if left unattended such wiring faults can become worse and may lead to deterioration or loss of trailer braking.

Please refer to the table on the next page for the list of flash patterns, showing the cause and recommended course of action for each of the conditions which may be detected.

NOTICE

Even intermittent faults are detected and may be indicated until cleared. Most fault codes can be cleared by unplugging the trailer for 1 minute then reconnecting.

TECH TIP

LED Sequence	Symptom/Description	Possible Cause	Suggested Action
	BLUE¹ or GREEN² Breathing when the Override button is pushed	The trailer brakes have not been detected	Check the trailer plug and all connections to the brake controller.
	Flashing a Blue/ Green sequence¹.	The unit is in the process of calibrating, this is NOT a fault.	Keep driving normally and the unit will calibrate
	The LED is YELLOW and flashes PURPLE twice	There is a fault with the unit and/or the installation.	Check and clean trailer plug connection. Please contact REDARC or visit your local auto-electrician for further assistance
	The LED is YELLOW and flashes RED once	There is a short circuit somewhere on the brake output line (BLUE wire)	Check all wiring from the unit to the trailer brakes for any wiring faults, including at trailer plug
	The LED is YELLOW and flashes RED twice	There is a short circuit somewhere on the brake light circuit (RED wire)	Check all wiring from the unit to the brake light trigger for any wiring faults
	The LED is YELLOW and flashes RED four times	There is a break/open circuit somewhere along the Tow-Pro™ Elite's Ground circuit (WHITE wire)	Check all ground connections and associated wiring for any wiring faults
	The LED is BLUE and flashes RED once a second	The unit has detected that the Remote Cable is faulty	Check the Remote cable is fully plugged in, otherwise replace
	The LED is flashing GREEN only whilst braking	Loss of supply power or Circuit Breaker cycling	Check supply (BLACK) wire for connection problems and check circuit breaker/fuse is not blown and is the correct value
	The LED is flashing GREEN at any time	Hesitation during connection of BLACK wire possibly causing incomplete startup sequence	Disconnect BLACK wire, wait 1 minute and reconnect BLACK wire to the battery
	The LED is flashing GREEN at any time or only when not braking	Low continuous voltage on brake light (RED) wire	Check that RED wire is connected to a point that is 0V when the brakes are off and 12V with the brakes applied
	The LED is flashing BLUE	The power supply to the unit is not stable.	Check the BLACK and WHITE wires for loose connections
	The LED flashes an unusual colour sequence randomly whilst braking	There is a short circuit on the output (BLUE) wire or the Fuse or Circuit Breaker is overloaded	Check for short circuit on brake light (RED) circuit
			Check for short circuit on trailer brake (BLUE) circuit, including moving brake swing arms
	The LED flashes an unusual colour sequence randomly whilst braking	There is a short circuit on the output (BLUE) wire or the Fuse or Circuit Breaker is overloaded	Check that no other devices are running from the same Fuse or Circuit Breaker as the Tow-Pro Elite
			Check supply (BLACK) wire for connection problems and check circuit breaker/fuse is not blown
	LED only lights up when braking and brake light fuse may have blown	The power wire is most likely not connected	Check supply (BLACK) wire for connection problems and check circuit breaker/fuse is not blown
	The LED is not working at all	There is a bad connection to the trailer	Check the trailer wiring as the unit is not recognising that a trailer is connected.

1. Tow-Pro Elite Only
2. Tow-Pro Classic Only

TECH TIP