



Electric Tarp System Operational Guide

Your truck has been fitted with Retractable Tarps' latest electric tarp motor and electronic control unit. Retractable Tarps' **ECU** and **Roll-Rite® Motor** combination is the latest advancement in automatic tarp systems. Before you get started you should familiarise yourself with its automatic one touch operation and advanced motor overload protection.

Automatic One Touch Operation

To activate the tarp all that is required is one press of the in-cab tarp switch.

Close

To close the tarp, press **Close** momentarily and the tarp will automatically go out and stop without the need to hold onto and then release the switch.

Open

To open the tarp, press **Open** momentarily and the tarp will automatically come in and stop without the need to hold onto and then release the switch.

Emergency Stop

If the tarp is required to be stopped whilst automatically moving, either press **Close** or **Open** and the tarp motor will come to a stop. Once stopped, pressing **Close/Open** will operate the tarp as described above.

Advanced Motor Overload Protection

Because the Roll-Rite® Hollowshaft motor is so powerful we have incorporated motor overload protection. This is important to you, because you need to know how this can affect the electric tarping system. An overload condition is when there is too much resistance against the tarp system for the motor to "bulldoze" through. This condition is experienced when the tarp is fully opened and fully closed. Under normal operating conditions this would be the only time the ECU should overload. After the ECU overloads (fully opened, fully closed) there is a 5 second cool down period before the motor can be activated again.

See overleaf for more details and troubleshooting

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ECU – TROUBLESHOOTING

L.E.D. Indicators

At start-up the ECU performs a self-test and flashes the three L.E.D's in sequence whilst initialising. Once initialised, the indicators are as follows:-

POWER L.E.D. – GREEN		
No Light	Not Activated	No Power Supplied To Motor
Solid Green	Activated – Normal	Power Supplied To Motor
Slow Flashing Green	Activated – Low Voltage	Power Supplied To Motor
Fast Flashing Green	Activated – Under Voltage	No Power Supplied To Motor

O/LOAD L.E.D. – RED		
Solid Red	Activated – Overload	No Power Supplied To Motor
Slow Flashing Red	Activated – Input Error	No Power Supplied To Motor

O/TEMP L.E.D. – AMBER		
Slow Flashing Amber	Over Temperature	No Power Supplied To Motor

Low Voltage – (ECU is being supplied with 9.5V – 11.5V)

- Ensure that the correct size cable is used. (Refer to wiring diagram)
- Check connectors and terminals for corrosion and that they are crimped and tightened correctly.

Under Voltage – (ECU is being supplied with less than 9.5V)

- Check battery voltage.
- Ensure that the correct size cable is used. (Refer to wiring diagram)
- Check connectors and terminals for corrosion and that they are crimped and tightened correctly.

Overload – (ECU is tripped out because of overdraw of current)

- It is normal for the ECU to overload at tarp close/open position. (approx. 5 sec)
- If ECU trips out prematurely, inspect tarping system for damage and ensure that nothing is preventing the tarp from functioning as per normal operation.

Input Error – (Switch wires are being activated at the same time or incorrectly)

- Check manual switch for faults, inspect switching wires and terminals.

Over Temperature – (Operating in excess of 80 degrees C)

- Inspect complete tarping system for damage
- Inspect complete wiring for faults.

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