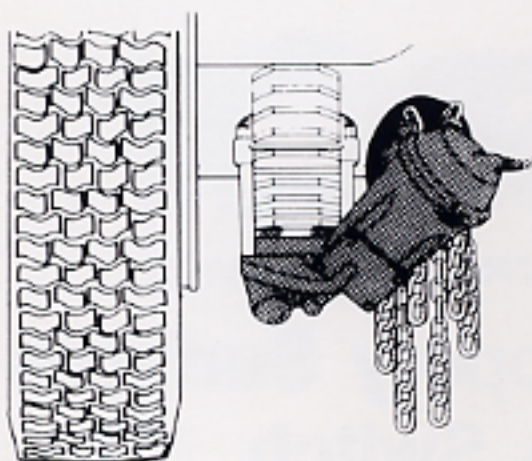
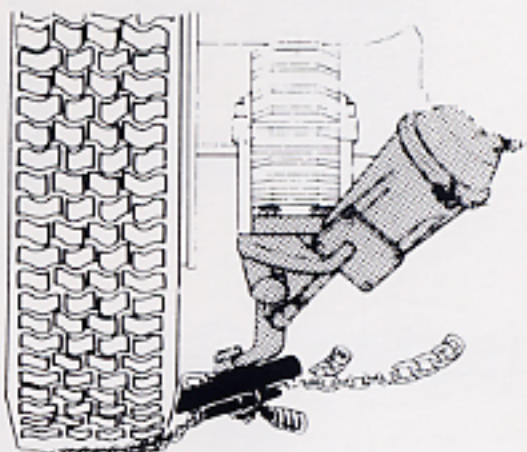


**Resting position** (seen from front)



**Working Position** (seen from front)



## DESCRIPTION OF OPERATION

The **ONSPOT** Automatic Traction Device offers the traction of a single set of conventional snow chains at the touch of a button, without having to stop the vehicle.

An electric switch mounted in the cab provides 12 volts to an air solenoid mounted on the vehicle's frame rail. Compressed air to the solenoid is supplied from either the vehicle's onboard air system or a 12-volt compressed air kit.

When the dashboard switch is activated the solenoid opens, allowing compressed air to enter the air chamber and lower the chainwheel so it contacts the inside of the tire. The friction between the tire and the rubber-covered chainwheel causes the chainwheel to rotate, creating enough

centrifugal force to flail the chains out in front of the tire. (The principle of the system is similar to a small generator driven by a bicycle tire to operate a headlight.)

Six lengths of chain spaced at 60-degree intervals on the chainwheel ensure that there are always two chains between the tire and road surface whether you are accelerating, braking, or are in a wheel lockup condition. The traction from the chainwheel is obtained in forward OR reverse.

When the dashboard switch is turned off, the solenoid exhausts the air provided to the chain units and return springs in the air chambers bring the chainwheels back to their resting position.