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Ordering Information

Feel free to call or fax in your order using the following part number.

Auto Drop #10024

Notes

Safety Instructions

When using the AUTO DROP controller, always follow basic safety precautions to reduce risk of electric shock and personal injury.

**Please read all instructions in the manual before use.

1. Do not install controller with power on.
2. Keep environment clean and dry to avoid electric shock.
3. Do not touch back side of circuit board while in operation.

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Installation and Operation

To install the Auto Drop:

1. Open the control box on the milking system.
2. Take out the old board and replace it with the new one.
3. Apply power.

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End of Flow Delay Times

TD2A	TD2B	Delay
open	open	9 sec
closed	closed	16 sec
open	closed	23 sec
closed	closed	30 sec

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Vacuum Delay TD3

This feature allows the vacuum to collapse prior to dropping the claw after the milking is complete, thus protecting the cow from any injury. Selections of 0.8 through 5.7 seconds are available. Switches TD3A, TD3B, and TD3C allow you to control the vacuum delay.

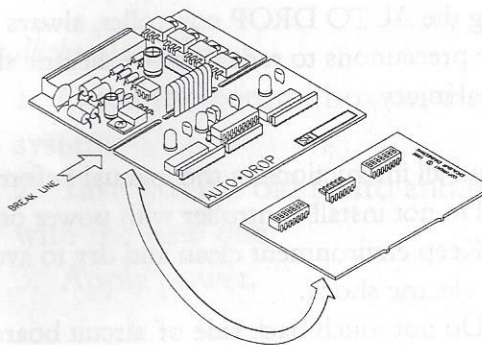
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Introduction

The Excalibur Engineering AUTO DROP is a pin and function replacement for the De Laval/Alfa-Laval SST II*. This new power board offers a simple, efficient and economical way to remove milker claws automatically. Designed to fit current enclosure boxes and easy to hook up, AUTO DROP is built to last so you can expect consistent, accurate operation every time you milk.

* De Laval, Alfa-Laval and SST II may be registered trademarks of De Laval.

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Switch Settings & Descriptions

Milk Letdown, TD1

This switch allows you to control the time you allow the animal to begin milk letdown. It may be set for 120 or 90 seconds by setting the switch on the back of the board labeled TD1. The delay is set at 90 seconds from the factory. You may wish to change this depending on how fast or slow the animal is.

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End of Flow Delay TD2

This delay allows for erratic milk flows that may occur after heavy milk flows are over (often called “stripping”). The delay may be set for 9, 16, 23, or 30 seconds by using switches TD2A and TD2B on the back of the board. The delay is set for 9 seconds from the factory.

Warning: not allowing animals to “strip” may cause them to dry up prematurely. Over milking may cause a slightly increased risk of mastitis.

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Auxiliary Delay TD6

The Auxiliary Delay allows you to use back flush and other washing systems. using switches TD6A, TD6B, and TD6C you may select the time delay for between 5 and 10 seconds. The auxiliary delay is set for 5 seconds from the factory.

Auxiliary Delay Times

TD6A	TD6B	TD6C	Delay
open	open	open	5 sec
closed	open	open	10 sec
open	closed	open	15 sec
closed	closed	open	20 sec
open	open	closed	25 sec
closed	open	closed	30 sec
open	closed	closed	35 sec
closed	closed	closed	40 sec

Vacuum Delay Times

TD3A	TD3B	TD3C	Delay
open	open	open	0.8 sec
closed	open	open	1.5 sec
open	closed	open	2.2 sec
closed	closed	open	2.9 sec
open	open	closed	3.6 sec
closed	open	closed	4.3 sec
open	closed	closed	5.0 sec
closed	closed	closed	5.7 sec

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Milk Sweep TD5

The Milk Sweep draws the milk that sometimes gets caught in the claw and sends it to the receiver. The Auto Drop offers two options: 1.2 seconds and 2.0 seconds. The Milk Sweep is set for 1.2 seconds from the factory. Adjust the TD5 to the closed position to allow the full 2.0 seconds.