



# ***TDM DRIVE BELTS***

## ***FIELD REPLACEMENT PROCEDURES***

TDN 07100-00057 03/2006

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<b>TECHNICAL</b>	<b>BULLETIN</b>
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**TECHNICAL BULLETIN # 5-65**

**DATE:** November 1, 2005

**SUBJECT:** TDM-100 and TDM-150 Modified in the RL5000 Product Line

**APPLICABILITY:** All Authorized Triton Distributors and Third Party Service Providers

This bulletin addresses:	Recommended Implementation is:
<input type="checkbox"/> Documentation Changes	<input type="checkbox"/> Now for all affected units
<input checked="" type="checkbox"/> <b>Hardware Service Issues</b>	<input checked="" type="checkbox"/> <b>All affected units during next service visit</b>
<input type="checkbox"/> Software Announcements	<input type="checkbox"/> Optional
<input type="checkbox"/> Technical Tips	<input type="checkbox"/> No implementation required

There are two versions of TDM-1XX dispensers currently available, TDM-100/150 mechanisms produced before May 2, 2005, part numbers and the TDM Modified used in production since that date.

**Problem:** The TDM Modified dispensers are not compatible with RL5000 software older than version 1.5.X. Software release dates for version 1.5.X were:

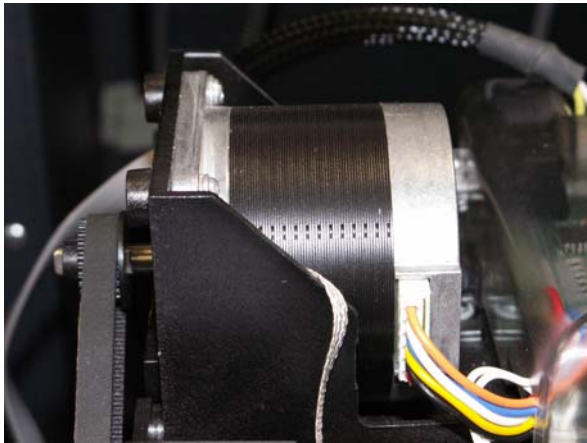
- United Kingdom - October 29, 2004
- Canada and the United States - January 4, 2005
- South Africa - April 21, 2005
- Australia - August 20, 2005

The symptom of an incompatibility is the failure to recognize an out of cash condition potentially causing a customer to receive less cash than requested with no error generated and no reversal attempt. The terminal would stay in service.

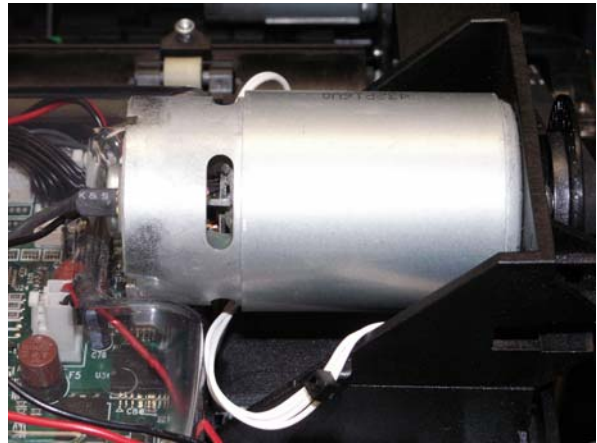
**Solution:** When replacing a dispenser the type should be noted. The software version in the terminal should be checked against the dispenser type to ensure that TDM Modified dispensers are only installed in machines with compatible software. If an incompatible version of software is found, the latest version, version 1.7.0, is available for download free of charge from the Distributor's section of the Triton website, [www.tritonatm.com](http://www.tritonatm.com), or on disc through the Triton Parts Department. There is a small fee for shipping and handling of the disc.

**NOTE: Triton recommends that all terminals operate with the latest version of software to take advantage of improvements in performance or added features new software may offer.**

A quick visual check of the drive motors can help determine the dispenser type and is illustrated in the photos below. The original TDM dispenser will have a black encased stepper motor installed next to the dispenser mainboard. The DC Drive motor on the TDM Modified is silver in color.



Stepper Motor from Original TDM-1XX



DC Drive Motor from TDM-1XX Modified

If you have any questions, please contact Technical Support toll free in the U.S./ Canada at 1-800-259-6672 or from outside North America, 1-228-868-0899.

Kevin Bienemann  
Director Global Services

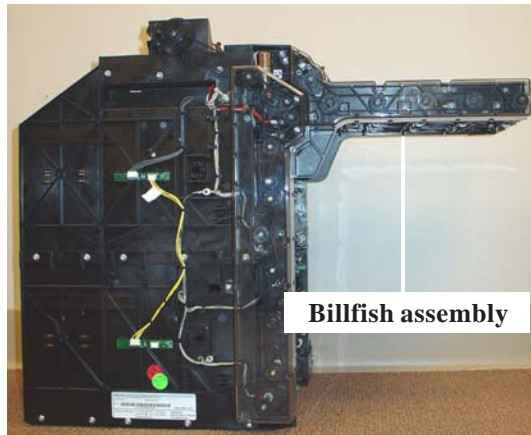
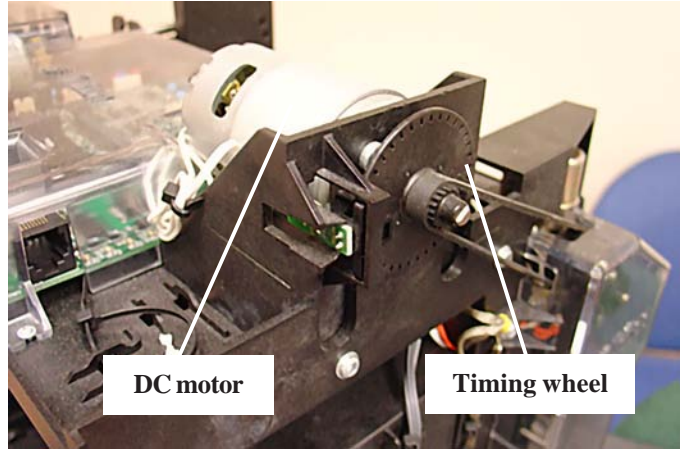
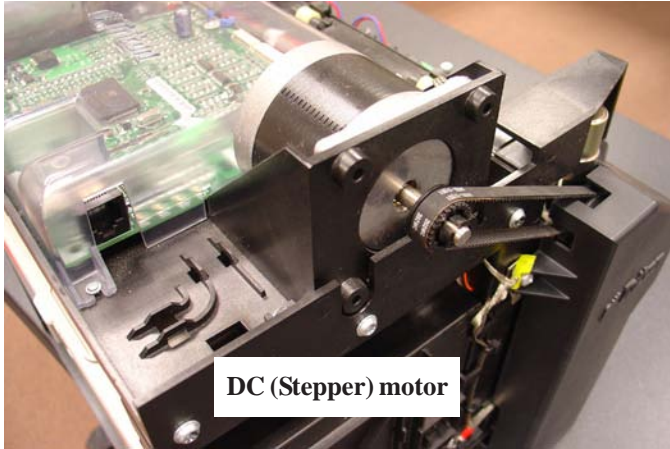
# TDM DRIVE BELTS FIELD REPLACEMENT PROCEDURES

## INTRODUCTION

This guide covers the steps for field replacement of the upper drive and diverter belts for TDM dispensing mechanisms. The kit required is determined by the type motor installed on the mechanism. The tables below list the belt replacement kit needed for motor type and the specific mechanisms. **Note: The DC motor type (not Stepper) has a timing wheel for the driver motor.**

## SCOPE

This procedure applies to all service personnel involved in the process of maintaining or converting Triton ATMs.

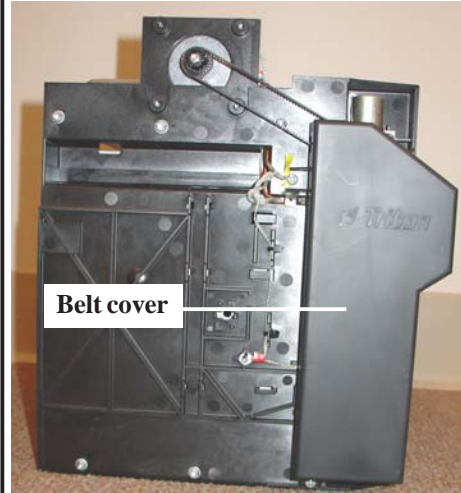


<b>TDM Belt Replacement Kit (P/N 06100-00322)</b>			
Tools Required: #20 Torx driver / Phillips screwdriver			
Part Number	Description	Motor Type	Mechanism(s) Affected
03114-00001	Belt, Upper (short)	All	All listed below
04006-01001	Belt, Drive Motor (long)	DC (Stepper)	TDM-100 (w/o Billfish) TDM-150 (w/o Billfish)
04006-01003	Belt, Drive Motor (long)	DC (w/timing wheel)	TDM-100 (w/ Billfish) TDM-150 (w/ Billfish) TDM-200 (all) TDM-250 (all)
07100-00057	TDM Belt Replacement Procedures		

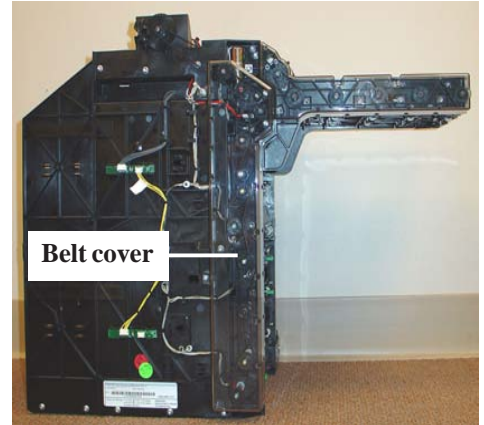


**NOTE: Remove power from the terminal before proceeding! These procedures require the mechanism be removed from the ATM.**

① Remove belt cover by loosening the phillip-head screws or Torx screws, if applicable.

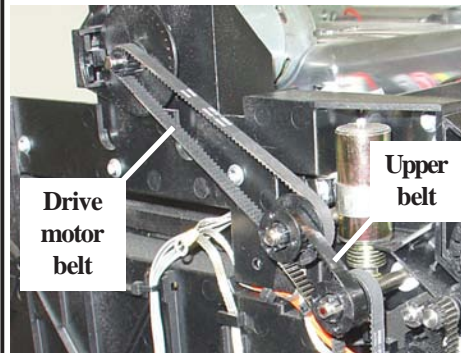


TDM-100

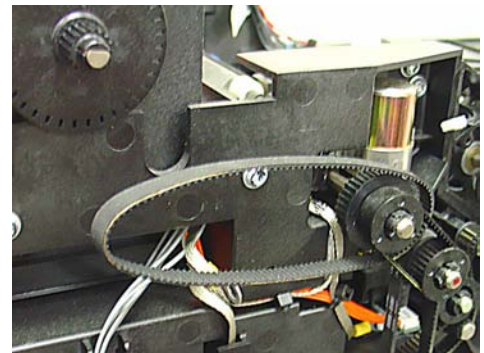


TDM-250 w/Billfish

② Disengage the Drive Motor belt **FIRST** by removing from the top pulley (long belt).



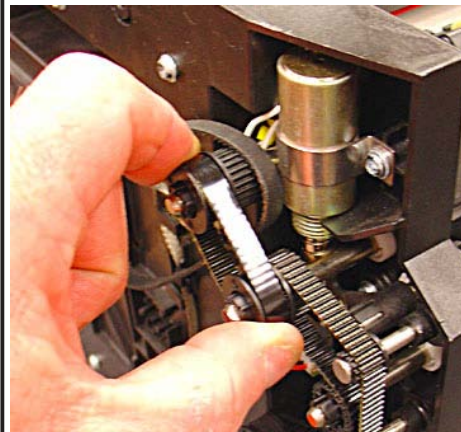
Belts locations



Drive motor belt

③ Next, remove the Upper belt (small belt).

Slightly “squeeze” the 2 pulleys shown. Start belt off pulley and roll belt/pulley until belt comes off.

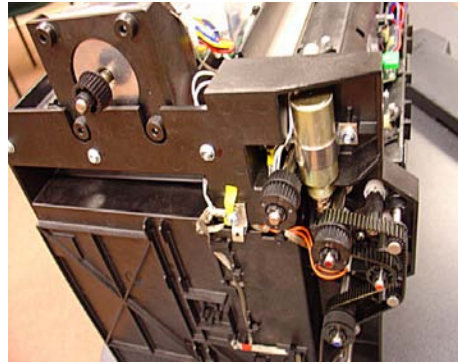


“Squeeze pulleys slightly



Start belt off pulley

④ After Upper belt is removed, remove the Drive Motor belt off the inside pulley.

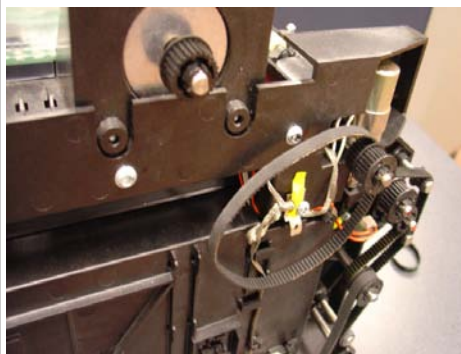


**Belts removed**

⑤ Reversing the process, install the Drive Motor belt **FIRST** on the inside pulley (long belt).

⑥ Next, install the Upper belt (small belt).

Start belt on pulleys. Slightly “squeeze” the 2 pulleys and roll belt/pulley until belt is installed.

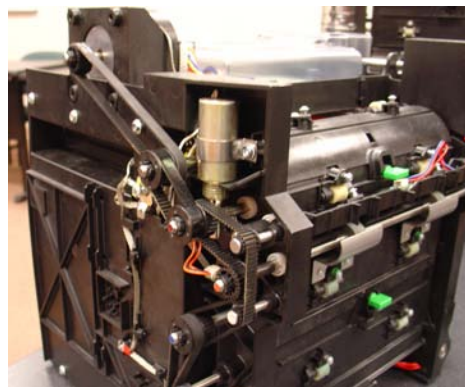


**Drive motor belt on inside pulley**



**Roll Upper belt to install on pulleys.**

⑦ After Upper belt is installed, engage Drive Motor belt to upper pulley. Reinstall belt cover.



**Belts installed**