

**T300 SERIES THERMAL TRANSFER PRINTER SYSTEM  
USER'S GUIDE  
(T308S, T312S, T312M)**

**EIL/PIP/006**



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USER GUIDE  
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IDENTIFICATION APPROVALS	NAME	DATE
TECHNICAL	J. SWIFT	July 2002
TECHNICAL SUPPORT	J. SMITH	July 2002
PRODUCT MANAGEMENT	R. KENNEWELL	July 2002

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**SAFETY!**

**IMPORTANT INFORMATION!**

**Incorrect use of this equipment can cause injury. It is advised that operators be trained in the correct use of the equipment and that they read this manual before use.**

**Maintenance must only be carried out by suitably qualified and trained personnel.**

In common with all electrical equipment, the T300 Series printers must be used in accordance with established safe working practices, and used only as recommended.

Operators should be trained in the correct use of the equipment and must carefully read, and follow: T300 Series Quick Reference Guide (includes Product Safety guide) and T300 Series User's Guide. These are supplied with the printer.

This guide covers only the use of recommended Tyco Electronics identification products.

**Additional safety advice can be found in the T300 Series Quick Reference Guide.**

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**1.0 SCOPE**

This document is designed to aid the operator in the set-up and use of T300 Series printers with Tyco Electronics Identification products. It covers the following printers:

<b>MODEL</b>	<b>TYCO PART NUMBER</b>	
T308S-PRINTER	C73835-000	200 dpi (8 dots/mm)
T308S-C-PRINTER	E74699-000	200 dpi (8 dots/mm) incorporates cutter
T308S-R-PRINTER	D27569-000	200 dpi (8 dots/mm) incorporates internal rewind
T312S-PRINTER	D57447-000	300 dpi (12 dots/mm)
T312S-C-PRINTER	D03508-000	300 dpi (12 dots/mm) incorporates cutter
T312S-R-PRINTER	D46119-000	300 dpi (12 dots/mm) incorporates internal rewind
T312M-PRINTER	E21063-000	300 dpi (12 dots/mm)
T312M-R-PRINTER	F74435-000	300 dpi (12 dots/mm) incorporates internal rewind

**NOTES:**

- Only the T312M-PRINTER and T312M-R-PRINTER models are recommended for printing heat shrink marker sleeves and tie-on cable labels for cable identification applications. All the printers in the T300 Series range can be used for printing self-adhesive labels.
- The higher resolution T312S/T312M printers will allow the printing of smaller characters and finer barcodes than the T308S printers. The smallest characters that can be printed will depend on the product being printed. Contact Tyco Electronics for advice.

**2.0 REVISION HISTORY AND RELATED DOCUMENTS**

**Issue 1 – July 2002.**

**Related Documents**

T300 Series Quick Reference Guide (includes Product Safety guide)

T300 Series User’s Guide

Tyco Electronics Print Contrast Scale

### **3.0 PRINTER SET-UP**

**Before operating the printer, read the T300 Series Quick Reference Guide (includes Product Safety guide) and T300 Series User's Guide.**

#### **3.1 UNPACKING THE PRINTER**

Unpack the printer ensuring that all packaging is retained for future transit. In the unlikely event of the printer arriving in a less than perfect state, please contact your Tyco Electronics representative or the shipping agent.

The following should be included with the printer:

- Three power leads: UK, European, US.
- Parallel communications cable.
- T300 Series Quick Reference Guide
- T300 Series User's Guide
- Tyco CD ROM
- Upper Media Guide plate (T312M-PRINTER and T312M-R-PRINTER models only)

**Ensure that the printer is positioned in a suitable location which can withstand the weight of the machine (approximately 25 kg / 55 lb) and its physical size.**

#### **3.2 PRINTER POWER-UP**

##### **IMPORTANT!**

- **For personnel and equipment safety, always use the correct electrical connection.**
- **When connecting the power cable to an electrical outlet, ensure that the power ON/OFF switch (located at the back of the printer) is in the OFF position.**
- **Switch OFF the power before connecting or disconnecting any of the printer cables.**

Every time the printer is switched ON it will perform a self-test before it is ready to print. If any of these tests fail, the word "FAILED" will appear on the Liquid Crystal Display (LCD) on the front of the printer. If this occurs, refer to the trouble shooting section of the T300 Series User's Guide.

### 3.3 CONNECTING THE PRINTER TO A COMPUTER (TERMINAL)

#### **Parallel Port Connections:**

Locate the parallel communication cable included with the printer.

With both the printer and computer OFF, connect both together with the cable. The port on the printer is situated above the ON/OFF switch at the rear.

**Note:** Ensure the parameter 'Parallel Com.' is set to 'Parallel'.  
(Refer to Appendix A or the T300 Series User's Guide on how to change this parameter setting).

### 3.4 PRINTER PARAMETER SETTINGS

The LCD on the T300 Series contains the set-up information for all of the print options.

These parameters can be accessed through the SETUP/EXIT button on the printer control panel - as described in Appendix A.

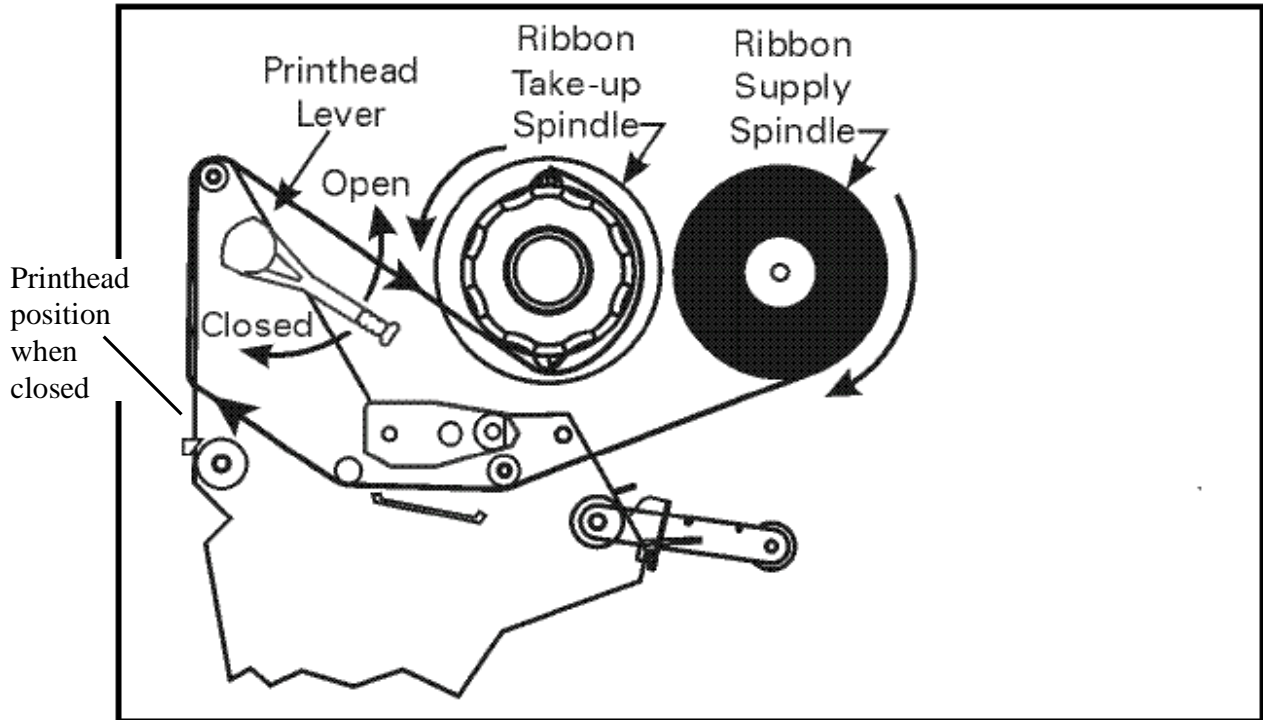
Consult the T300 Series User's Guide for the function of each parameter. A full list of the parameters, along with the recommended settings for the T300 Series printers, can also be found in Appendix A.

The T312M-PRINTER and T312M-R-PRINTER models will come pre-loaded with the correct firmware version SP810B. This firmware should not be changed or updated without checking with Tyco Electronics. **Not all versions of firmware will allow for the successful printing of Tyco Electronics products for cable identification applications (heat shrink marker sleeves / tie-on cable labels).**

All other models in the T300 series will come with the latest available firmware versions.

### 3.5 RIBBON LOADING

To load a new ribbon, follow the procedure below (see Figure 1) and for additional information refer to the T300 Series User's Guide.



**Figure 1 Ribbon Loading**

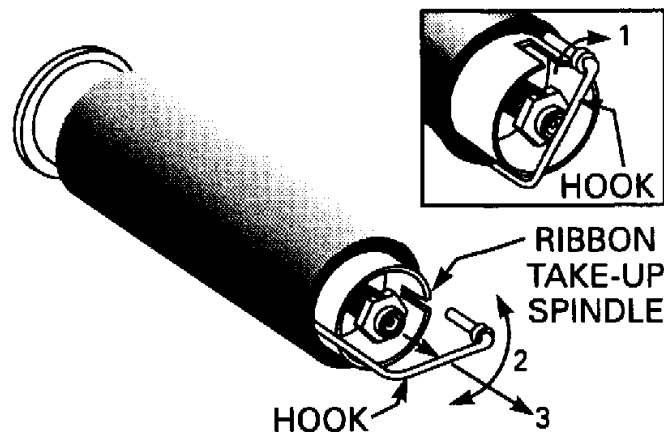
1. Place the ribbon roll on the ribbon supply spindle, making sure that the ink side is facing outwards. Ensure that the cardboard core of the ribbon is pushed up against the stop of the ribbon supply spindle and that the ribbon is aligned squarely with its core.
2. Open the printhead by moving the printhead Open Lever counter-clockwise to the OPEN position.
3. Thread the ribbon through the printer as shown in Figure 1 above. Follow the ribbon location guidelines painted on the inside face of the printer.
4. Remove the hook from the ribbon take-up spindle. Place the front edge of the ribbon under the long leg of the hook and wind the ribbon onto the spindle in a counter clockwise direction.



5. Once the ribbon has been correctly loaded, close the printhead by moving the lever clockwise to the CLOSED position.

### 3.6 RIBBON REMOVAL

The used ribbon should be broken as close to the ribbon take-up spindle as possible. Following this, the hook should be pulled out of the spindle and the ribbon removed. For more information, see the T300 Series Quick Reference Guide and T300 Series User's Guide.



**Figure 2 Ribbon Removal**

### 3.7 SENSOR ALIGNMENT

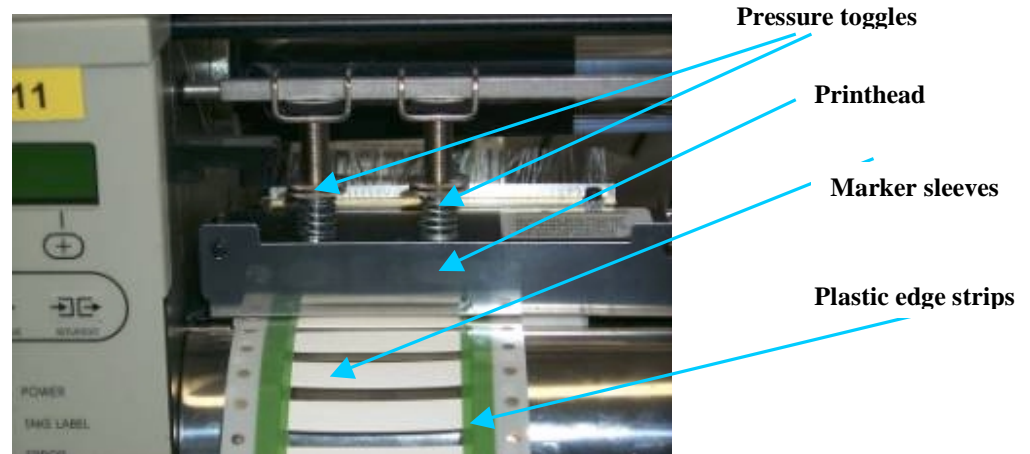
Ensure that the top and bottom product sensors (transmissive mode) are aligned over each other and in relation to the holes, spaces or gap used for registration. Details on making this alignment are given in the "Positioning the Media Sensors" section in the T300 Series User's Guide.

### 3.8 PRINthead PRESSURE

Printhead pressure should be set at maximum to ensure maximum contrast of the print.

For the T308S and T312S printer models, there is a single pressure toggle (as shown in the T300 Series User's guide and the T300 Series Quick Reference Guide). This should be positioned centrally across the width of the self-adhesive labels being printed.

The T312M-PRINTER and T312M-R-PRINTER models have an additional toggle to maintain a more even pressure on cable identification products being printed. Both toggles should be set equi-spaced across the width of the product (for example, marker sleeves) being printed. This is also the case when using the T312M-PRINTER and T312M-R-PRINTER models to print self-adhesive labels. In no event should the toggles be positioned over the sprocketed plastic edge strips of TMS System 6 marker sleeves or on the paper carrier of HSI marker sleeves/tie-on cable labels. The position of the pressure toggles is shown in Figure 3 by way of example for TMS System 6 marker sleeves. Adjustments to printhead pressure and toggles are described in the T300 Series User's Guide (Chapter: Routine Care & Adjustment) and in the T300 Series Quick Reference Guide (section: Adjustments).



**Figure 3 Position of printhead pressure toggles for TMS System 6 heat shrink marker sleeves**

## **4.0 PRINTER OPERATION**

### **4.1 PRODUCT LOADING**

Small spools of Tyco marker sleeve/label products can be loaded inside the printer onto the Media Supply Hanger.

**Note:**

**It is very important when loading the product to be printed to ensure that the inner cardboard core is placed on the Media Supply Hanger.**

**The cardboard core will allow the product to feed smoothly, and prevent jamming of the product on the Media Supply hanger.**

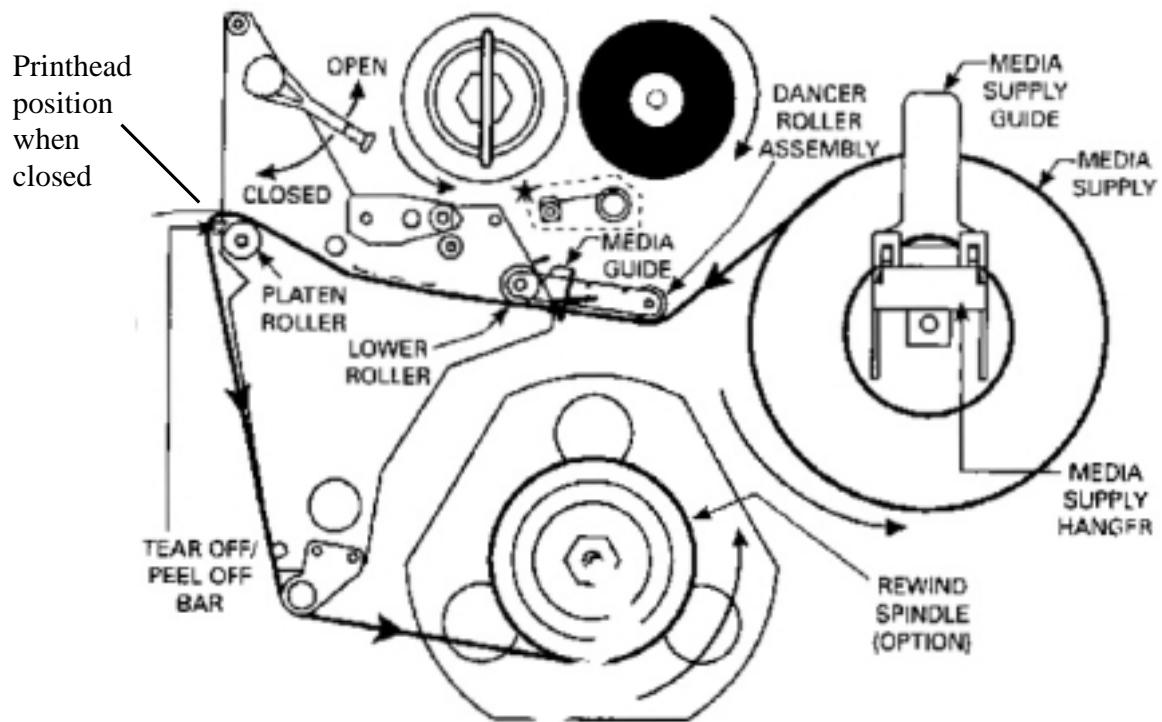
**The product WITHOUT the cardboard core SHOULD NOT be placed on the media supply hanger.**

For large plastic spools of marker sleeves, the product should be located outside the back of the printer. It should be fed in from the bottom of the spool through the rear access slot, over the Media Supply Hanger and through the printhead. Tyco Electronics spool payoff cradles are available (AD-0689-9 PAYOFF CRADLE, part number: 167695-000).

When printing the HSI “double-sided (DS) HX” range of marker sleeves, supplied on a reel, it should be used with a Tyco Electronics payoff cradle TTA-OFF220 (Tyco part number D24910-000). The payoff cradle should be located outside the back of the printer. Details on how to set up the TTA-OFF220 payoff cradle are given in Appendix B.

**Procedure for Product Loading (see Figure 4):**

1. Open the printhead by moving the lever counter-clockwise to the OPEN position.
2. Thread the Tyco marker sleeve/label product through the printer and printhead. The product should follow the media guideline on the inside face of the printer, and as shown in Figure 4.
3. Once successfully threaded past the printhead, **the product must be positioned at the printhead as shown in section 4.2 below for marker sleeves and tie-on cable labels.** Self-adhesive labels do need to be positioned in this manner.
4. Once the product is correctly positioned, the lever should be moved clockwise to the CLOSED position.



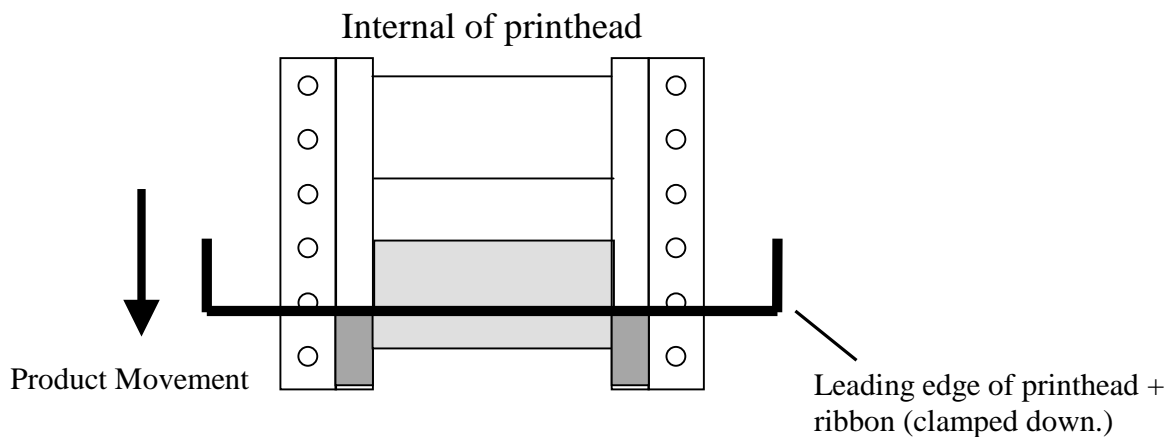
**Figure 4 Product Loading**

If printing a marker sleeve or label which has a vertical pitch of greater than 2inch (50mm), then the **MAXIMUM LENGTH** parameter needs to be increased accordingly (see Appendix A also).

**4.2 PRINTING MARKER SLEEVES AND TIE-ON CABLE LABELS**

**Marker sleeves and tie-on cable labels should be positioned in the printhead as shown in Figure 5. The first marker sleeve needs to be positioned 1/3 of its width beyond the printhead. The products need to be positioned in this way during product loading and each time the printhead is opened and closed.**

The product will feed inconsistently if it is not positioned correctly.



**Figure 5 Product Loading for marker sleeves and tie-on cable labels**

Before starting the printing or calibration process, the top and bottom product sensors (transmissive mode) need to be moved to the appropriate position for the product (see section 3.7):

- For single sided HSI (TS marker sleeves and tie-on cable label) products, and all TMS System Six marker sleeves, the sensors need to be positioned centrally across the width of the marker sleeves/tie-on cable labels.
- For double-sided HSI (DT and HX-DS) marker sleeves, the sensors need to be positioned over one of the sensor holes along the edge of the blue backing paper.

Details on making this alignment are given in the “Positioning the Media Sensors” section in the T300 Series User’s Guide.

If printing a marker sleeve / tie-on cable label which has a vertical pitch of greater than 2inch (50mm), then the MAXIMUM LENGTH parameter needs to be increased accordingly (see Appendix A also). The default is set to 2inch (50mm).

The HIGH ENERGY function of the T312M-PRINTER and T312M-R-PRINTER models will be required to print certain cable identification products. This is essential if the required print contrast and print permanency are to be reached. The HIGH ENERGY function is set via the WinTotal software – see section 8.

The T312M-PRINTER and T312M-R-PRINTER models are not recommended for printing “fan-folded” cable identification products.

Section 8 (Software) should be consulted prior to the start of printing as it has important information on the printing conditions to be used.

### 4.3 PRINTING LABELS

The printing of self-adhesive labels is fully covered in the T300 Series User’s Guide. When changing from printing marker sleeves to labels, or vice versa, it is important to keep in mind the following:

1. If using black lines on the labelstock (for example: TP Tape) for registration, then the SENSOR TYPE parameter needs to be changed from WEB to MARK (see Appendix A also). This needs to be changed back to WEB when printing products which do not use black lines for registration.
2. For continuous labels, the MEDIA TYPE needs to be changed from non-continuous to continuous (see Appendix A also).
3. If printing a label which has a vertical pitch of greater than 2inch (50mm), then the MAXIMUM LENGTH parameter needs to be increased accordingly (see Appendix A also). The default is set to 2inch (50mm).
4. Ensure that the sensors are aligned (see section 3.7) with each other and in relation to the holes, spaces or gap used for registration.
5. Calibration must be undertaken prior to printing – see section 4.4.

Section 8 (Software) should be consulted prior to the start of printing as it has important information on the printing conditions to be used.

### 4.4 CALIBRATION

When changing between self-adhesive labels / HSI marker sleeves and tie-on cable labels / TMS marker sleeves it is essential to carry out a Media and Ribbon Calibration prior to the calibration described below. A Media and Ribbon Calibration should also be carried out before printing double-sided (DT and HX-DS) HSI marker sleeves. Media and Ribbon calibration is described in the T300 Series User’s Guide. With the T312M-PRINTER and T312M-R-PRINTER models, the Upper Media Guide plate (shipped with the printer) has to be re-fitted to enable a Media and Ribbon Calibration to be carried out

- see T300 Series User's Guide or contact Tyco Electronics for advice. It is important to remove the Upper Media Guide plate once the Media and Ribbon Calibration has been completed.

Ensure that the sensors are correctly aligned for registration (see sections 3.7 and 4.2) before starting calibration.

In order to minimise product wastage due to calibration, the following calibration procedure is recommended:

- a) Switch the printer ON.
- b) In the printer firmware, select Media Power Up ← Calibration →, press SET/UP EXIT on the front panel.
- c) In the printer firmware, select Head Close ← No motion →, press SET/UP EXIT on the front panel.
- d) Position the product in the printhead - as shown in Figure 5 for marker sleeves and tie-on cable labels.
- e) Ensure the “paper out” light is not illuminated. If it is, open the printhead and re-position the product until the light goes out. Close the printhead again.
- f) Switch the printer OFF and then back ON.
- g) Printer automatically calibrates the media.
- h) On opening and closing the printhead, it is necessary to press the FEED button on the front panel in single increments until the product is in position before starting the printing stage.

If frequent changes of product type and size are to be printed, then it may be preferable to use the calibration method described below to avoid constantly switching the printer ON/OFF:

- a) Switch the printer ON.
- b) In the printer firmware, select Media Power Up ← No Motion →, press SET/UP EXIT on the front panel.
- c) In the printer firmware, select Head Close ← Calibration →, press SET/UP EXIT on the front panel.
- d) Position the product in the printhead - as shown in Figure 5 for marker sleeves and tie-on cable labels.
- e) Ensure the “paper out” light is not illuminated. If it is, open the printhead and re-position the product until the light goes out. Close the printhead again.
- f) Press the “Pause” button, on the front panel of the printer to turn OFF the light - printer calibrates the media.

**The drawback with this method is that every time the printhead is opened the PAUSE light on the front panel needs to be cancelled. This causes the printer to calibrate the media and produces a series of unprinted labels/marker sleeves/tie-on cable labels.**

If the calibration operation fails, then undertake a Media and Ribbon calibration and repeat the calibration procedure described above.

When using the black line sensor with self-adhesive labels employing a black line registration, the black line on the label should be placed 1/2 - 1 inch (12-25mm) behind



the black line sensor at the start of calibration. See T300 Series User's Guide for more details on the black line sensor.

#### 4.5 REWIND AND CUTTER OPTIONS

The use of T300 Series printers with REWIND and CUTTER options is described in the T300 Series User's Guide (Chapter: Printer Basics).

When using the REWIND option, the route between the printhead and the rewind spindle is shown inside the printer by the painted guideline. An empty cardboard core must be installed on to the rewind spindle and the product attached to it, usually with self-adhesive tape.

4.6 FRONT DISPLAY PANEL



**Figure 6 Front Display Panel**

The front panel display communicates operational status, programming modes and parameters.

1. Front Panel Keys  
All of the functions of the keys and their location are shown in Figure 6 above. These are also shown in the T300 Series User's Guide.
2. Front Panel Lights  
Operation of the front panel lights is described in the T300 Series User's Guide.

### 3. Printer Status Sensors

These sensors are designed to alert the operator to various conditions by either stopping the printing or turning on a light. Their functions are described in the T300 Series User's Guide.

## **5.0 MAINTENANCE**

It is recommended that the printhead be cleaned after a roll of ribbon is consumed. This should be done using an IPA wipe or any standard thermal transfer printhead cleaning product.

For additional maintenance procedures, refer to the T300 Series User's Guide.

## **6.0 TROUBLE SHOOTING**

For printer specific problems, refer to the T300 Series User's Guide.

If the print darkness is too low, then this can be increased by increasing the DARKNESS parameter (see Appendix A).

For Tyco Electronics product or software problems, contact your local Tyco Electronics representative.

**7.0 MATCHING THE CORRECT RIBBON TO THE PRODUCT**

**Print quality and permanency on the different types of Tyco identification products is only guaranteed if the correct thermal transfer ribbon is used for each product.**

**7.1 CABLE IDENTIFICATION PRODUCTS**

**Cable Identification products can *only* be printed with the T312M-PRINTER and T312M-R-PRINTER models.** The use of T308S or T312S printer ranges for cable identification products will result in poor print quality and is not recommended.

<b>CABLE IDENTIFICATION PRODUCT</b>	<b>PRODUCT COLOUR</b>	<b>RIBBON</b>	<b>RIBBON COLOUR</b>
TMS-SCE, RPS, Shrinkmark	WHITE/COLOURS (excluding black)	TMS-RJS-RIBBON-4RPSCE	BLACK
TMS-SCE	BLACK	1330-3102-10	WHITE
TMS-SCE	BLACK	TMS-RJS-RIBBON-4AG	SILVER
D-SCE	YELLOW	1950-RIBBON-4T300	BLACK
HT-SCE, NBC-SCE	WHITE (excluding black)	TMS-RJS-RIBBON-4HT	BLACK
HT-SCE, NBC-SCE	BLACK	TMS-RJS-RIBBON-WH	WHITE
ZH-SCE	WHITE/YELLOW	TMS-RJS-RIBBON-4ZH	BLACK

**TMS System 6 range of heat shrink marker sleeves**

<b>CABLE IDENTIFICATION PRODUCT</b>	<b>PRODUCT COLOUR</b>	<b>RIBBON</b>	<b>RIBBON COLOUR</b>
HS (marker sleeve)	WHITE/COLOURS (excluding black)	1950-RIBBON-4T300	BLACK
HS (marker sleeve)	BLACK	1330-3102-10	WHITE
HC (marker sleeve)	WHITE/COLOURS (excluding black)	1950-RIBBON-4T300	BLACK
HC (marker sleeve)	BLACK	1330-3102-10	WHITE
HX (marker sleeve)	YELLOW/WHITE/COLOURS	1950-RIBBON-4T300	BLACK
HL <sup>1</sup> (tie-on cable-label)	WHITE/YELLOW	1950-RIBBON-4T300	BLACK
HLX <sup>2</sup> (tie-on cable-label)	WHITE/YELLOW	1910-RIBBON-4T300	BLACK
HXTM	WHITE/YELLOW	1910-RIBBON-4T300	BLACK

<sup>1</sup> For the number of printable lines / font size that can be used with HL253 range – please contact Tyco for advice.

<sup>2</sup> For the number of printable lines / font size that can be used with HLX253 range – please contact Tyco for advice.

### HSI range of heat shrink marker sleeves and tie-on cable-labels

## 7.2 PART NUMBERS OF RIBBONS

<b>Tyco Electronics DESCRIPTION</b>	<b>COLOUR</b>	<b>PART NUMBER</b>
TMS-RJS-RIBBON-4RPSCE	Black	557721-000
TMS-RJS-RIBBON-4HT	Black	754073-000
TMS-RJS-RIBBON-4ZH	Black	582019-000
TMS-RJS-RIBBON-WH	White	154739-000
TMS-RJS-RIBBON-4AG	Silver	124503-000
1950-RIBBON-4T300	Black	A76580-000
1910-RIBBON-4T300	Black	E17317-000
1330-3102-10	White	650784-000

**7.3. USING THE SILVER (TMS-RJS-RIBBON-4AG) RIBBON – Marker sleeves**

The Tyco Electronics parameter setting for the T312M-PRINTER and T312M-R-PRINTER models does not allow the ribbon sensor to detect the presence of the silver ribbon or when it runs out.

To enable printing with the silver ribbon, the printer setting “Ribbon LED” found via the LCD on the front control panel has to be set to 000. This will allow the printer to print with the silver ribbon, but it will still not enable the printer to detect when the ribbon runs out. The “Ribbon LED” setting will need to be reset when changing back to a black ribbon. (Refer to Appendix A for details of the procedure for changing this parameter setting).

**IT IS THE USER’S RESPONSIBILITY TO: -**

- 1. Reset the sensor to its original setting after use with the silver ribbon.**
- 2. Ensure that, when using the silver ribbon, it does not run out as the printer will not be able to detect the presence of no ribbon.**

**7.4 LABELS**

Self-adhesive labels can be printed with all models in T300 printer range.

<b>LABEL TYPE</b>	<b>BLACK RIBBON</b>	<b>PART NUMBER</b>
Self-Lams (SB/PVF)	1330-3300-10	980892-000
Polyesters (WP/MP/CP/HW/HM/MV)	1330-0607-10	742412-000
Kapton (T1K/T2K/TSK)	1330-0619-10	952888-000
Tedlar (TTVF)	1330-3300-10	980892-000
TP Tape	1330-3300-10	980892-000
HPK	1330-0607-10	742412-000
Decals (TTP)	1330-3300-10	980892-000
Nylon Cloth (NC)	1330-0607-10	742412-000
Destructible Polyethylene (TN)	1330-0607-10	742412-000
White Vinyl (WV)	1330-3300-10	980892-000
Paper (EP)	1330-0600-10	143060-000

## **8.0 SOFTWARE**

The Tyco Electronics WINTOTAL software is recommended for printing cable identification products on the T312M-PRINTER and T312M-R-PRINTER models. Whenever printing cable identification products, the REWIND option in the “print” dialogue box should always be checked. **WinTotal should be version W2002.1 or higher.** Earlier versions of WinTotal do not fully support all features of all the printers in the T300 Series range. Printing speed is set automatically from WinTotal.

### **HIGH ENERGY FUNCTION IN WINTOTAL**

This is essential if the required print contrast and print permanency are to be obtained on cable identification products. This function is selected in the PRINT screen in WinTotal. It will remain on during all printing operations until it is de-selected in the PRINT screen.

**The HIGH ENERGY function MUST be switched on when printing the following products:**

**HL**

**HS black (white ribbon)**

**HS white/colours (black ribbon)**

**HC black (white ribbons)**

**HC white/colours (black ribbon)**

**D-SCE**

**HT-SCE & NBC-SCE white (black ribbon)**

**HT-SCE & NBC-SCE black (white ribbon)**

**TMS-SCE black (white and silver ribbons)**

**The HIGH ENERGY and the HALF SPEED function MUST be switched on when printing the following products:**

**HX**

**Nylon Cloth (NC)**

The HALF SPEED function is selected in the PRINT screen in WinTotal. It will remain on during all printing operations until it is de-selected in the PRINT screen. A speed setting of 1 (default value) in Advanced Label Editing of WinTotal must be used.

Consult the WINTOTAL User’s Guide or HELP for full operating instructions.

WinTotal or Print Easy can be used to print self-adhesive label products on all printers in the T300 Series range.

## **9.0 PRODUCT & RIBBON STORAGE**

All Tyco identification products and ribbons must be kept in a clean area and free from contamination, dust, grease and condensation. Image quality and durability may be affected if this is not the case.

Storage conditions and shelf-life are marked on each product container.  
Ribbons should be stored at 0-40°C and +20-70% relative humidity.



**APPENDIX A****PARAMETER SETTINGS – T300 Series Printers**





The set-up parameters are listed below, along with the recommended settings for use with Tyco identification products.

To enter the configuration mode, press SET-UP/EXIT button (see Figure 7). The displayed parameter can then be changed using the large white arrow keys. To move down to the next parameter, press NEXT/SAVE button. To move up to the previous parameter, press PREVIOUS button.

Changes can be permanently saved by first pressing the SET-UP/EXIT button to bring up the message “save changes permanent”, followed by pressing the NEXT/SAVE button.

Further instructions are in the T300 Series User’s Guide



	Scrolls back to the previous parameter.
	<ul style="list-style-type: none"> <li>• Scrolls forward to the next parameter.</li> <li>• Saves any changes you've made in the Configuration and Calibration sequence.</li> </ul>
	Enters and exits the configuration mode.
	These keys change the parameter values. They are used in different ways depending on the parameter displayed. Common uses are: increase/decrease a value, answer "yes" or "no", indicate "on" or "off", scroll through several choices, input the password.

**Figure 7 Setting of Printer Parameters**

PARAMETER	T300 Series SETTING
Darkness.	16-30 (See below)
Tear Off.	000
Print Mode.	Rewind
Media Type.	Non-continuous (default) Continuous – only for continuous labels
Sensor Type.	Web
Print Method.	Thermal Transfer
Print Width.	4.09" (104mm)
Maximum Length.	2.0inch - 50 mm (ensure that is always greater than vertical pitch between labels or marker sleeves)
List Fonts.	Print
List Bar Codes.	Print
List Images.	Print
List Formats.	Print
List Set Up.	Print
Initialise Card.*	Yes
Sensor Profile.	Print
Media + Ribbon.	Calibrate
Host Port.*	Main RS232
Baud.*	9600
Data Bits.*	7 Bits
Parity.*	Even
Stop Bits.*	1 Stop Bit
Host Hand Shake.*	Xon/Xoff
Protocol.*	None
Network ID.*	000
Communications.*	Normal Mode
Control Prefix.*	7EH
Format Prefix.*	5EH
Delimiter Char.*	2CH
ZPL Mode.*	ZPL II
Media Power Up.*	As required
Head Close.*	As required
Backfeed.*	Default
Label Top.	000
Left Position.	0000
Head Test Count.*	0000
Head Resistor.*	Do not alter
Verifier Port.*	Off
Applicator Port.*	Off
Web S.*	Do not alter
Media S.*	Do not alter
Ribbon S.*	Do not alter
Mark S.*	000
Mark Med S.*	000
Media Led.*	18

PARAMETER	T300 Series SETTING
Ribbon Led.*	6(#)
Mark Led.*	9
LCD Adjust.	10
Language. (ε)	English
Energy Mode	High Energy OFF (The High Energy function is switched on and off via the WinTotal software when marking cable identification products)

- \* Parameters may only be altered with a password. The password is “1234”. The front panel will display “0000”. Use the large white RIGHT arrow button to advance the number (from 0 to 1, and so on). Move to the next digit by pressing the large white LEFT arrow button. Once “1234” is displayed, press the NEXT/SAVE button.
- # This setting needs to be set to 000 when using a silver (TMS-RJS-RIBBON-4AG) ribbon for printing marker sleeves. Be sure to make a note of the original setting. It must be reset when a black ribbon is reloaded.
- ε The full list of available languages is:-
 

English	Swedish
Spanish	Danish
French	Spanish 2
German	Dutch
Italian	Finnish
Norwegian	Japanese
Portuguese	

**DARKNESS SETTING**

This parameter controls the contrast of the print. The optimum setting will be dependent on the product / ribbon combination. It may need to be varied to allow for wear of the printhead and batch-to-batch variation of the product. It should be adjusted to give a minimum print contrast of 8 (preferably 9-10) according to the Tyco Print Contrast scale.

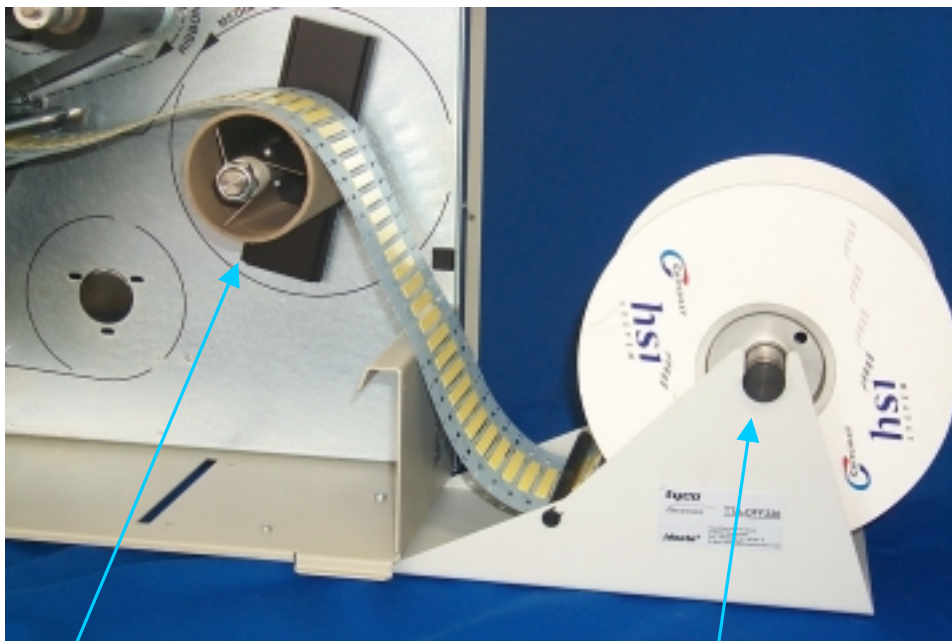
## APPENDIX B

EIL/PIP/009 June 2002

### TITLE: **TTA-OFF220 USER GUIDE**

#### SCOPE:

Use of the Take-off unit (TA-OFF220) for thermal transfer printing.



**Cardboard core  
to reduce friction/jamming**

**Spindle slots**



Place the take off unit parallel to the back end of the printer.

To attach the reel of product, push the unit's spindle through the centre of the reel, and then slot the spindle into the slots provided.

Load the product through the printer, making sure the product is located above the printer's media arm. To reduce friction/jamming it is recommended that an empty cardboard core be placed over the hanger.

Once loaded, the printer lid can be shut.

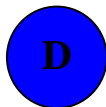


Placez l'unité débitrice parallèle à l'arrière de l'imprimante.

Pour attacher la bobine du produit imprimable, poussez la broche de l'unité dans le centre de la bobine puis insérez la broche dans les fentes prévues à cet effet.

Chargez le produit imprimable dans l'imprimante en prenant soin de le placer sur le bras de support de l'imprimante. Pour réduire tout phénomène de frottement, il est recommandé de placer un mandrin en carton vide sur la suspension.

Une fois le produit chargé, fermez le couvercle de l'imprimante.



Die Abnahmeeinheit parallel zum hinteren Ende des Druckers platzieren.

Zum Anbringen der Produktrolle die Spindel der Einheit durch die Mitte der Rolle schieben und dann die Spindel in die bereitgestellten Schlitzte legen.

Das Produkt in den Drucker einführen und dabei sicherstellen, dass es sich über dem Medienarm des Druckers befindet. Zum Reduzieren der Reibung wird empfohlen, dass eine leere Papphülse über den Aufhänger gestülpt wird.

Nach dem Laden kann der Deckel des Druckers geschlossen werden.



Coloque la unidad desenrolladora paralela al extremo posterior de la impresora.

Para instalar la bobina del producto, empuje el eje de la unidad a través del centro de la bobina, encajando seguidamente el eje en las ranuras provistas.

Cargue el producto a través de la impresora, asegurándose de colocarlo por encima del brazo de medios de la impresora.

Para reducir la fricción, se recomienda colocar un rollo vacío de cartón sobre el soporte suspendedor.

Una vez cargada la impresora, se puede cerrar la tapa.