Operator's Manual





T2212 PRINTER

Operator's Manual for the following products

Туре	
T2212-PRINTER	
T2212-SWARE-PRINTER	

Doc. # 412-121037 revision 1

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Topicality

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For technical support please download TE document 411-121057. Alternatively: Technical Support

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1 Introduction 1.1 Instructions Important information and instructions in this documentation are designated as follows: Danger! Draws attention to an exceptionally grave, imminent danger to your health or life due to hazardous voltages. Danger! Draws attention to a danger with high risk which, if not avoided, may result in death or serious injury. Caution! Draws attention to a danger with low risk which, if not avoided, may result in minor or moderate injury. Attention! Draws attention to potential risks of property damage or loss of quality. Note! Advices to make work routine easier or on important steps to be carried out. Environment! Gives you tips on protecting the environment. Handling instruction Reference to section, position, illustration number or document. \triangleright * Option (accessories, peripheral equipment, special fittings). Time Information in the display. 1.2 Intended Use

- The device is manufactured in accordance with the current technological status and the recognized safety rules. However, danger to the life and limb of the user or third parties and/or damage to the device and other tangible assets can arise during use.
- The device may only be used for its intended purpose and if it is in perfect working order, and it must be used with regard to safety and dangers as stated in the operating manual.
- The device printer is intended exclusively for printing suitable materials that have been approved by the manufacturer. Any other use or use going beyond this shall be regarded as improper use. The manufacturer/supplier shall not be liable for damage resulting from unauthorized use; the user shall bear the risk alone.
- Usage for the intended purpose also includes complying with the operating manual, including the manufacturer's maintenance recommendations and specifications.

Note!

Further documentation are included on the DVD enclosed in the printer box, and can be found on <u>www.te.com/identification.</u>

1 Introduction

1.3 Safety Instructions

- The device is configured for voltages of 100 to 240 V AC. It only has to be plugged into a grounded socket.
- Only connect the device to other devices which have a protective low voltage.
- · Switch off all affected devices (computer, printer, accessories) before connecting or disconnecting.
- The device may only be used in a dry environment, do not expose it to moisture (sprays of water, mists, etc.).
- Do not use the device in an explosive atmosphere.
- Do not use the device close to high-voltage power lines.
- If the device is operated with the cover open, ensure that people's clothing, hair, jewelry etc. does not come into contact with the exposed rotating parts.
- The device or parts of it can become hot while printing. Do not touch during operation, and allow it to cool down before changing material and before disassembly.
- Risk of crushing limbs and/or fingers when closing the cover. Only touch the cover on the outside. Do not reach into the swivel range of the cover.
- Perform only those actions described in this operating manual.
 Work going beyond this may only be performed by trained personnel or service technicians.
- Unauthorized interference with electronic modules or their software can cause malfunctions.
- Other unauthorized work on, or modifications to, the device can also endanger operational safety.
- Always have service work done by a qualified workshop, where the personnel have the technical knowledge and tools required to do the necessary work.
- There are various warning stickers on the device. They draw your attention to danger.
 Warning stickers may therefore not be removed, because you and other people will not be made aware of pending dangers and may be injured.
- The maximum noise level is under 0.063 Pa/70 dB(A).



Danger!

Danger to life and limb from the power supply.

Do not open the device casing.



Warning!

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

1.4 Environment

Obsolete devices contain valuable recyclable materials that should be sent for recycling.

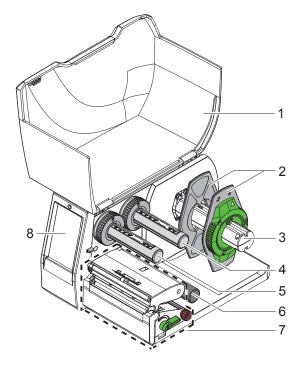
- Send to suitable collection points, separately from residual waste.
- The modular construction of the printer enables it to be easily disassembled into its component parts.
- Send the parts for recycling.



- The electronic circuit board of the device is equipped with a lithium battery.
- ▶ Take old batteries to collection boxes in shops or public waste disposal centres.

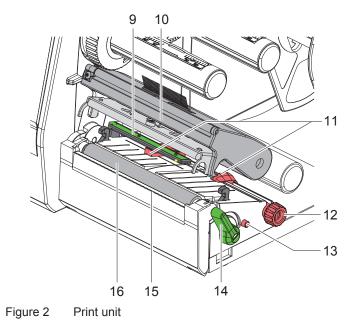
6 2 Installation

2.1 **Device Overview**



- Cover 1
- 2
- Margin stop Roll retainer 3
- 4 Ribbon supply hub
- 5 Ribbon take-up hub
- 6 Roller
- 7 Print unit
- 8 Touchscreen-Display

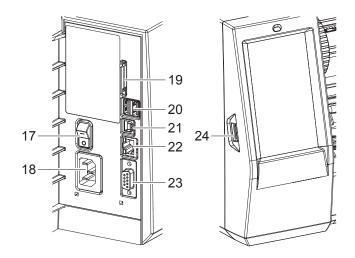
Figure 1 Overview



- 9 Label sensor
- 10 Printhead retainer with printhead
- 11 Guides
- 12 Knob for adjusting the guides
 13 Knob for adjusting the label sensor
 14 Lever for locking the printhead
 15 Tear-off plate

- 16 Print roller

2 Installation



- Power switch
 Power connection jack
 Slot for SD card
- 20 2 USB master ports for keyboard, scanner, USB memory stick, Bluetooth adapter, service key or WiFi stick

- 21 USB full-speed slave port
 22 Ethernet 10/100 Base-T
 23 Serial RS-232 port
 24 USB master port for service key or USB memory stick

Figure 3 Connections

2 Installation

2.2 Unpacking and Setting-up the Printer

- Lift the label printer out of the box.
- Check label printer for damage which may have occurred during transport.
- Set up printer on a level surface.
- Remove foam transportation safeguards near the printhead.
- Check delivery for completeness.

Contents of delivery:

- T2212-PRINTER
- · Power cables
- USB cable
- · Operator's Manual
- · DVD with Windows driver and documentation

Note!

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Please keep the original packaging in case the printer must be returned. In the event a printer is returned please ensure all printing materials are removed from the printer before shipping.

Attention!

The device and printing materials will be damaged by moisture.

Set up label printers only in dry locations protected from moisture.

2.3 Connecting the Device

The standard available interfaces and connectors are shown in Figure 3.

2.3.1 Connecting to the Power Supply

The printer is equipped with a wide area power unit. The device can be operated with a supply voltage of 100-240 V~/50-60 Hz without adjustment.

- 1. Check that the device is switched off.
- 2. Plug the power cable into the power connection socket (18/Figure 3).
- 3. Plug the power cable into a grounded socket.

2.3.2 Connecting to a Computer or Computer Network

Attention!

Inadequate or no grounding can cause malfunctions during operations. Ensure that all computers and cables connected to the label printer are grounded.

• Connect the printer to a computer or network with a suitable cable.

To connect the printer please consult the Quick start guide (TE document 411-121061) found in the cover of the Printer CD case.

2.4 Switching on the Device

When all connections have been made:

Switch the printer on at the power switch (17/Figure 3). The printer performs a system test, and then shows the system status *Ready* in the display.

3 Touchscreen-Display

The user can control the operation of the printer with the control panel, for example:

- · Issuing, interrupting, continuing and canceling print jobs,
- Setting printing parameters, e.g. heat level of the printhead, print speed, interface configuration, language and time of day.
- Control stand-alone operation with a memory module.
- Update the firmware ..

Many functions and settings can also be controlled by software applications or by direct programming with a computer using the printer's own commands.

Settings made on the touchscreen display set the basic settings of the printer.



It is advantageous, whenever possible, to make adjustments to various print jobs in the software.

3.1 Start Screen

Note!



Figure 4 Start screen

The touchscreen display is operated by touch:

- To open a menu or select a menu item lightly touch the corresponding symbol.
- To scroll in lists slide finger up or down on the display.

\$ Open the menu	Repeat the last printed label
Interrupt the print job	Cancel all print jobs
Continue the print job	Feed a blank label



Note!

e 1 Symbols on the start screen

Inactive symbols are shaded.

10 3 Touchscreen-Display

Image: Distribution of the state of the s

With special software or hardware configurations additional symbols appear on the start screen:

Figure 5 Optional symbols on the start screen

		Initiate the printing of a single label within a print job including cutting, perforating	of-	Release a direct cut without media feed
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Table 2Optional symbols on the start screen

Depending on the configuration a range of information is visible via several icons in the status bar:



Figure 6 Icons of the status bar

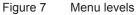
.	Displays the current data transfer in the form of a falling drop.
\odot	The Save data stream function is active All received data are stored in a .lbl file.
9	Warning ribbon end The remaining ribbon is below the required amount
11111	SD card installed
	USB memory installed
*	Gray: Bluetooth adapter installed, White: Bluetooth connection active
([[-	WiFi connection active The WiFi strength is displayed by the number of white arcs.
***	Ethernet connection active
÷	USB connection active
abc	abc program active
09:45	Clock time

Table 3 Icons on the status bar

3 Touchscreen-Display

3.2 Navigation in the Menu

L 15.03	Menu Image: Constraint of the second secon	▲ Storage Image: Copy files Image: Copy files
Start level	Selection level	Parameter/function level



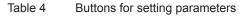
- ► To open the menu select on the start screen.
- Select a theme in the selection level. Several themes have substructures again with selection levels.
 To return from the current level to the upper one select
- Continue the selection until the parameter/function level is reached.
- Select function. The printer may perform a function after a preparatory dialog, if necessary.
 or -

Select parameter. The setting options depend on the type of parameter.

Network services Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service Image: Constraint of the service	Printing Print speed 30 mm/s 40 mm/s 50 mm/s 125 mm/s 150 mm/s 150 mm/s 150 mm/s	Printing ↓ Heat level 0 Print speed 75 mm/s ↓ Print position X 0.0 mm ↓ Print position Y 9.9 0.0 mm 9.9 ↓	Time C2201/2018 C22018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C2201/2018 C22018
Logical parameters	Selection parameters	Numerical parameters	Date/time

Figure 8 Samples for parameter setting

	Scroll bar for rough value setting
	Decreasing the value step-by-step
+	Increasing the value step-by-step
×	Return without saving the setting
~	Return and save settings
	Parameter is disabled, touching enables the parameter
	Parameter is enabled, touching disables the parameter



12 4 Loading Material

4.1 Loading Media from a Roll

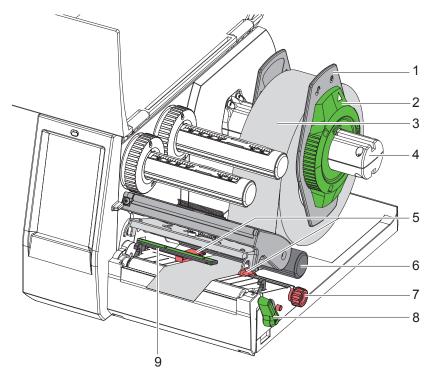


Figure 9 Loading media from a roll

- 1. Open cover.
- 2. Turn ring (2) of the margin stop (1) counterclockwise, so that the arrow points to the symbol 🖺, and thus release the margin stop.
- 3. Remove the margin stop (1) from the roll retainer (4).
- 4. Load label roll (3) on the roll retainer (4) in such a way that the labels can be inserted into the printhead in the correct position. The printable side of the labels must be visible from above.
- 5. Re-mount the margin stop (1) onto the roll retainer (4). Push the margin stop (1) to the roll (3) until the roll touches both margin stops and a clear resistance is encountered.
- 6. Turn ring (2) clockwise, so that the arrow points to the symbol 🖱, and thus fix the margin stop (1) on the roll retainer (4).
- 7. Turn lever (8) counterclockwise to open printhead.
- 8. Position guides (5) by turning the knob (7) so that they are several millimeters wider than the material.
- 9. Position material below the roller (6) and guide it through the print unit.

Attention!

- Guide material through the print unit below the label sensor (9).
- 10. Move guides (5) close to the edges of the material without clamping the material.
- 11. Adjust label sensor (\triangleright 4.2 on page 13).
- 12. Press printhead retainer down and turn lever (8) clockwise to lock the printhead.

4 Loading Material

4.2 Adjusting the Label Sensor

Note!

When the printer is delivered the label sensor is positioned in the middle of the paper feed. Thus, the label sensor must only be adjusted if materials with the following characteristics are used:

- Material with reflex or cut-out marks, which are not in the middle.
- Multi-column material with an even number of columns.
- Material with irregularly shaped labels.

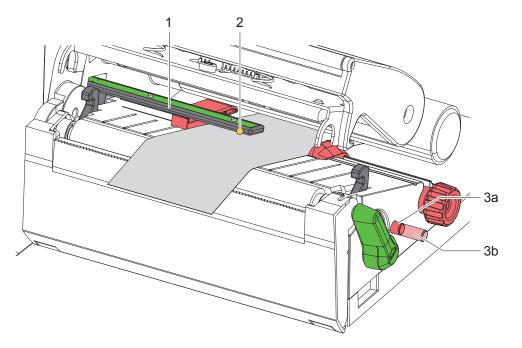


Figure 10 Adjusting the label sensor

The sensor position (2) is marked with a yellow LED in the sensor holder.

- 1. Open the printhead.
- 2. Release the label sensor (3) by pressing, so that it is extended (3b) ready to make an adjustment.
- 3. Position the sensor holder (1) by turning the knob (3) so that the sensor (2) can detect the front edge of the label in the direction of paper flow or the reflex or cut-out mark.
- 4. Return the label sensor adjuster knob by pushing it back in (3a)

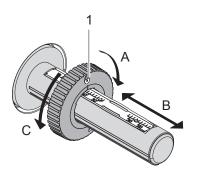
Note!

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It is important to ensure the label sensor adjustment knob is returned into the printer (3a), before closing the printhead.

14 4 Loading Material

4.3 Loading Transfer Ribbon



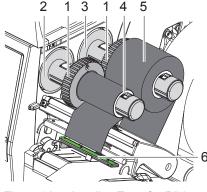


Figure 11 Guide Adjustment

Figure 12 Loading Transfer Ribbon

- 1. Open the printhead.
- 2. Clean the printhead before loading the transfer ribbon (\triangleright 6.3 on page 18).
- 3. Set guide (1) on the ribbon supply hub to the correct transfer ribbon width (Figure 11):
- Hold the hub and unlock the guide (1) by turning it in direction A.
- Slide the guide in direction B and adjust the guide to the ribbon width using the scale.
- Hold the hub and lock the guide by turning it in direction C.
- 4. Slide transfer ribbon roll (5) onto the ribbon supply hub (3) until it reaches the guide (1) so that the ink coating of the ribbon faces downward when being unwound.

Note!

To rewind the ribbon a ribbon core (4) is needed that must be at least equal in width to the supply ribbon.

- ▶ When changing the transfer ribbon use the empty supply ribbon core for winding the next ribbon.
- 5. Adjust the position of the guide on the take-up hub to the width of the ribbon core (4) and push ribbon core on the take-up hub (2).
- 6. Guide the transfer ribbon though the printing unit as shown in Figure 13.

Attention!

• Guide transfer ribbon over the label sensor (6).

- 7. Secure the starting end of transfer ribbon to the transfer ribbon core (4) with adhesive tape. The transfer ribbon take-up hub is turned counterclockwise.
- 8. Turn transfer ribbon take-up hub (2) counterclockwise to smooth out the feed path of the transfer ribbon.
- 9. Close the printhead.

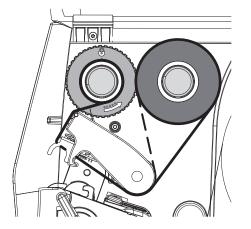


Figure 13 Transfer Ribbon Feed Path

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4 Loading Material

4.4 Setting the Feed Path of the Transfer Ribbon

Transfer ribbon wrinkling can lead to print image errors. The transfer ribbon deflection bar (2) can be adjusted to prevent wrinkles.

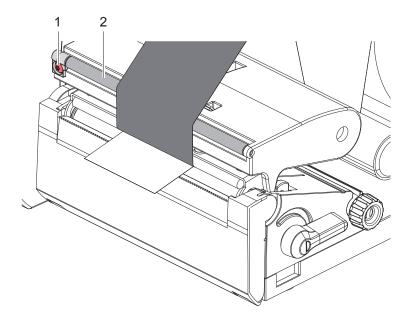


Figure 14 Setting the feed path of the transfer ribbon

Note!

A

The adjustment is best carried out during printing.

- ► Turn screw (1) with torx wrench TX10 and observe the behavior of the ribbon.
- By turning it clockwise the outer edge of the transfer ribbon is tightened.
- By turning it counterclockwise the inner edge of the transfer ribbon is tightened.

16 5 Printing Operation

Attention!

1

Printhead damage is caused by improper handling!

- **b** Do not touch the underside of the printhead with fingers or sharp objects.
- Ensure labels are clean.
- Ensure that the label surfaces are smooth. Rough labels act like emery paper and reduce the service life of the printhead.
- ▶ Print with the lowest possible printhead temperature.

The Printer is ready for operation when all connections are made and the transfer ribbon and labels are loaded.

5.1 Printing in Tear-off Mode

After printing, a label can be torn off manually using the tear off plate (2) Figure 15.

5.2 Printing in Cutting Mode

* Cutter and Perforator units are available as an accessory. Please consult TE document TTDS-260 for all TE printer accessories.

6 Cleaning

6.1 Cleaning Information



Danger!

Risk of death via electric shock!

Disconnect the printer from the power supply before performing any maintenance work.

The label printer requires very little maintenance.

It is important to clean the thermal printhead regularly. This guarantees a consistently good printed image and plays a major part in preventing premature wear of the printhead.

Otherwise, the maintenance is limited to monthly cleaning of the device.

1

Attention!

The printer can be damaged by aggressive cleansers. Do not use abrasive cleaners or solvents for cleaning the external surfaces or modules.

Remove dust and paper fluff from the print area with a soft brush or vacuum cleaner.

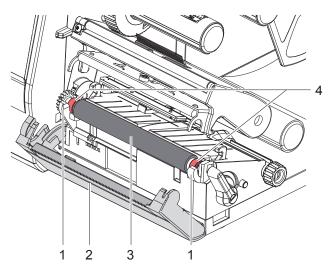
6.2 Cleaning the Print Roller

Accumulations of dirt on the print roller may impair the media transport and the print quality.

Attention!

Damage of the print roller.

Do not use sharp objects (knives, screwdrivers, etc.) to clean the print roller.





- 1. Open the printhead.
- 2. Remove material and transfer ribbon from the printer.
- 3. Fold down the tear-off plate (2).
- 4. Lift the print roller (3) from its retainers (1).
- 5. Remove deposits with roller cleaner and a soft cloth, or replace it if the roller appears damaged.
- 6. Push roller with bearings (4) into the retainers (1) until they click into place.
- 7. Fold up the tear-off plate (2).

18 6 Cleaning

6.3 Cleaning the Printhead

Cleaning intervals: - every media roll change

Substances may accumulate on the printhead during printing and adversely affect printing, e.g. differences in contrast or vertical stripes.



Attention!

Printhead can be damaged!

Do not use sharp or hard objects to clean the printhead. Do not touch protective glass layer of the printhead.



Caution!

Risk of injury from the hot printhead.

Ensure that the printhead has cooled down before starting cleaning.

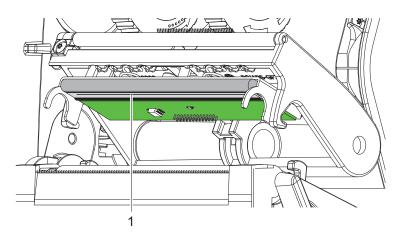


Figure 16 Heating line of the printhead

- Open the printhead.
- Remove material and transfer ribbon from the printer.
- Clean the printhead heating line (1) with Alcohol (IPA) and a soft cloth. (For detailed information and advice please consult TE document 411-121037 Thermal Transfer printhead cleaning instructions.)
- ▶ Allow printhead to dry for 2–3 minutes before commencing printing.

7 Fault Correction

7.1 Error Display

The appearance of an error will be shown on the display:

Figure 17 Error display

The error correction is dependent on the error type > 7.2 on page 19.

The display offers the following solutions to continue printing.

Repeat	The print job will continue after clearing the error.
Cancel	The print job will be cancelled.
Feed	The paper feed will be synchronized. Following the print job can be continued.
Ignore	The error message will be ignored. The print job will be continued possibly with limited performance.
Save log	The error does not allow print operation. For detailed analysis several system files can be saved on an external memory.

Table 5Button in the error display

7.2 Error Messages and Fault Correction

Error message	Cause	Remedy
Barcode error	Invalid barcode content, e.g. alphanumeric characters in a numerical barcode	Correct the barcode content.
Barcode too big	The barcode is too big for the allocated area of the label	Reduce the size of the barcode or move it.
Buffer overflow	The input buffer memory is full and the computer is still transmitting data.	Use data transmission via protocol (preferably RTS/CTS).
Cutter blocked	Cutter cannot return into its home position and stays in an undefined position	Switch off the printer. Remove material. Switch on the printer. Restart print job. Change material
	No cutter function	Switch the printer off and then on. If error recurs call service.
Cutter jammed	The cutter is unable to cut the labels but is able to return into its home position	Press Cancel Change material.
Device not conn.	Programming addresses a non-existent device	Either connect this device or correct the programming.
File not found	Requested file is not on the card	Check the contents of the card.
Font not found	Error with the selected download font	Cancel current print job, change font.
Memory overflow	Current print job contains too much infor- mation, e.g. selected font, large graphics	Cancel current print job. Reduce amount of data to be printed.
Name exists	Duplicate usage of field name in the direct programming	Correct programming

20 7 Fault Correction

Error message	Cause	Remedy
No label found	There are labels missing on the label material	Press <i>Repeat</i> repeatedly until printer recognizes the next label on the material.
	The label format as set in the software does not correspond with the real label format	Cancel current print job. Change the label format set in the software. Restart print job.
	Printer is loaded with continuous paper, but the software is set on labels	Cancel current print job. Change the label format set in the software. Restart the print job.
No label size	The size of the label is not defined in the programming.	Check programming.
Out of paper	Out of label roll	Load labels.
	Error in the paper feed	Check paper feed.
Out of ribbon	Out of transfer ribbon	Load new transfer ribbon.
	Transfer ribbon melted/snapped during printing	Cancel current print job. Change the heat level via software. Clean the printhead ▷ 6.3 on page 18 Load transfer ribbon. Restart print job.
Printhead open	Printhead not locked	Lock printhead.
Printhead too hot	Printhead is overheated	After pausing the print job will be continued automatically. If the fault recurs repeatedly, reduce the heat level or the print speed via software.
Read error	Read error when reading from the memory card	Check data of the card. Backup data, reformat card.
Remove ribbon	Transfer ribbon is loaded although the printer is set to direct thermal printing	Set the printer in the configuration or in the software to transfer printing
Ribbon ink side	Identified ribbon unwinding direction does not match to the setup setting	Ribbon loaded incorrectly. Clean the printhead \triangleright 6.3 on page 18. Load the ribbon correctly.
		Setting does not match to the used ribbon. Correct the setting.
Syntax error	Printer has received an unknown or invalid command from the computer.	Press <i>Ignore</i> to skip the command or press <i>Cancel</i> to cancel the print job.
Unknown card	Card not formatted, Type of card not supported	Format card, use different type of card.
Voltage error	Hardware error	Switch the printer off and then on. If error recurs contact TE Technical support. It is shown which voltage has failed. Please note.
Write error	Hardware error	Repeat the write process, reformat card.

Table 6 Error Messages and Fault Correction

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7 Fault Correction

7.3 **Problem Solution**

Problem	Cause	Remedy
Transfer ribbon creases	Transfer ribbon deflection not adjusted	Adjust the transfer ribbon deflection. \triangleright 4.4 on page 15
	Transfer ribbon too wide	Use a transfer ribbon slightly wider than the width of label.
Print image has smears or voids	Printhead is dirty	Clean the printhead. \triangleright 6.3 on page 18
	Temperature too high	Decrease temperature via software.
	Unsuitable combination of labels and transfer ribbon	Consult TE document 411-121005 Identification Printer Product Ribbon Matrix.
Printer does not stop after transfer ribbon runs out	Direct Thermal printing has been selected in the printer menu.	Change to thermal transfer printing.
Printer prints a sequence of characters instead of the label format	Printer is in ASCII dump mode	Cancel the ASCII dump mode.
Printer transports label media, but transfer ribbon does not move	Transfer ribbon incorrectly inserted.	Check and, if necessary, correct the transfer ribbon web and the orientation of the label side.
	Unsuitable combination of labels and transfer ribbon	Consult TE document 411-121005 Identification Printer Product Ribbon Matrix.
Printer only prints each second label	Setting of the size in the software is too large.	Change the size in the software.
Vertical white lines in the print image	Printhead is dirty	Clean the printhead. \triangleright 6.3 on page 18
	Printhead is defective (failure of heat elements)	Change the printhead. Contact TE Technical Support
Horizontal white lines in the print image	Printer is used with the <i>backfeed</i> > <i>smart</i> in the cut or peel-off mode	Set the <i>backfeed</i> > <i>always</i> in the setup.
Print image is irregular, one side is lighter	Printhead is dirty	Clean the printhead. \triangleright 6.3 on page 18

Table 7 Problem solution

22 8 Licenses

8.1 Reference to the EU Declaration of Conformity

The printers of the T2212 series comply with the relevant fundamental regulations of the EU Rules for Safety and Health:

- · Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits
- Directive 2014/30/EU relating to electromagnetic compatibility
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

EU Declaration of Conformity

For the current EU Declaration of Conformity please contact your local TE Connectivity Representative or use the following link to download

▷ <u>EU Declaration of Conformity</u>



8.2 FCC

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user may be required to correct the interference at his own expense.

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