This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:

(1) l’appareil ne doit pas produire de brouillage, et
(2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

**FCC CAUTION**

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

For compliance with the Federal Noise Interference Standard, this equipment requires a shielded cable.

For RF interference suppression, if a ferrite core is provided with this device, affix it to the interface cable.

**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. This equipment generates, uses and can radiate radio frequency energy 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 will be required to correct the interference at his own expense.

CAN ICES-3 (A) / NMB-3 (A)

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation(MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person’s body (excluding extremities: hands, wrists, feet and ankles).

Cet équipement est conforme aux limites d’exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d’exposition dans le Supplément C à OET65 et d’exposition aux fréquences radioélectriques (RF) CNR-102 de l’IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l’exposition maximale autorisée. Cependant, cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps (à l’exception des extrémités : mains, poignets, pieds et chevilles).
Caution Symbol

This symbol is placed near the print head to indicate that it may be hot. Never touch the print head immediately after the printer has been used. Let the print head cool for a few minutes before touching it.

This symbol is placed near the cutter (auto cutter or manual cutter tear bar). Never touch the cutter blade, as you could injure your fingers.

This symbol label or stamp is placed near the screws securing the case, which should not be opened by individuals other than service personnel. Individuals, other than service personnel, should not remove these screws.

High voltage areas in the case can be dangerous.

This symbol is placed near the peripheral drive connector. Do not connect this to a telephone.

Trademark acknowledgments

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1. Unpacking and Installation

1-1. Unpacking
After unpacking the unit, check that all the necessary accessories are included in the package.

- Printer
- Switch blind
- Power cord
- Roll paper guide
- Ribbon cartridge
- Setup sheets

Note: The ferrite core and fastener provided with your printer depend on your printer configuration.

1-2. Notes about Installation
1. Choose a firm, level surface where the printer will not be exposed to vibration.
2. Make sure that the printer is connected to a reliable power outlet. It should not be on the same electric circuit as copiers, refrigerators, or other appliances that cause power spikes.
3. The power outlet you plan to connect to for power should be nearby and unobstructed.
4. Make sure that the printer is not exposed to direct sunlight.
5. Make sure that the printer is well away from heaters and other sources of extreme heat.
6. Do not locate the printer in a badly ventilated or dusty environment.
7. Make sure that the room where you are using the printer is not too humid.
8. This device employs a DC motor and switches that have an electrical contact point. Avoid using the device in environments where silicon gas can become volatile.
9. Use the printer within the boundaries indicated in the environmental requirements. Even when the ambient temperature and humidity are within the specifications, avoid radical changes in environmental conditions. The suitable operating temperature range is as follows:
   Operating temperature: 0°C to 50°C
10. When disposing of the printer, obey local regulations.
1-3. Handling Care
1. Be careful not to drop paper clips, pins or other foreign matter into the unit as these cause the printer to malfunction.
2. Do not attempt to print when either paper or ribbon cartridge is not located in the printer, otherwise the print head can be damaged.
3. Do not open the cover while printing.
4. Do not touch the print head immediately after printing as it gets very hot.
5. Use only roll paper that is not glued to the core.
6. When the paper end mark appears on the paper, replace the roll paper before it runs out.

1-4. Maintenance
Essentially, your printer is a robust piece of equipment, but should be treated with a modicum of care in order to avoid malfunctions. For example:

1. Keep your printer in a “comfortable” environment. Roughly speaking, if you feel comfortable, then the environment is suitable for your printer.
2. Do not subject the printer to physical shocks or excessive vibration.
3. Avoid over-dusty environments. Dust is the enemy of all precision mechanical devices.
4. To clean the exterior of the printer, use a cloth barely dampened with either water with a little detergent or a little alcohol, but do not allow any liquid to fall inside the printer.
5. The interior of the printer may be cleaned with a small cleaner or a compressed-air aerosol (sold for this purpose). When performing this operation, be sure not to bend or damage any cable connections or electronic components.
2. Parts Identification and Nomenclature

- **Printer cover**: Protects the printer from dust and reduces noise. Do not open the cover while printing.
- **Control panel**: Features one control switch and two indicators to indicate printer status.
- **Power switch**: Turns printer power on and off.
- **Interface connector**: Connects the printer with host computer.
- **Power connector**: For connection of the power cord.
- **Peripheral unit drive circuit connector**: Connects to peripheral units such as cash drawers, etc. Do not connect this to a telephone.
3. Setup

3-1. Connecting the Cable to the PC

3-1-1. Parallel Interface Cable
Connect the parallel interface cable to a parallel port of your PC.

3-1-2. RC-232 Interface Cable
Connect the RC-232 interface cable to a RS-232 port of your PC.

3-1-3. USB Interface Cable
Connect the USB interface cable to a USB port of your PC.

3-1-4. Ethernet Interface cable
Connect the ethernet interface cable to a ethernet port of your PC.
3-2. Connecting the Cable to the Printer

Note that the interface cable is not provided. Please use a cable that meets specifications.

⚠️ CAUTION

Before connecting/disconnecting the interface cable, make sure that power to the printer and all the devices connected to the printer is turned off. Also make sure the power cable plug is disconnected from the AC outlet.

3-2-1. Parallel Interface Cable

1. Make sure the printer is turned off.
2. Affix the ferrite core onto the cable as shown in the illustration.
3. Pass the fastener through the ferrite core.
4. Loop the fastener around the cable and lock it. Use scissors to cut off any excess.

(5) Connect the interface cable to the connector on the rear panel of the printer.
(6) Fasten the connector clasps.
3-2-2. RS-232 Interface Cable
(1) Make sure the printer is turn off.

⚠️ CAUTION
Before connecting/disconnecting the interface cable, make sure that power to the printer and all the devices connected to the printer is turned off. Also make sure the power cable plug is disconnected from the AC outlet.

(2) Connect the interface cable to the connector on the rear panel of the printer.
(3) Tighten the connector screws.

3-2-3. USB Interface Cable
Affix the ferrite core onto the USB cable as shown in the illustration below and make sure to pass the cable through the cable support as shown in the illustration.
3-2-4. Connecting Ethernet Cable

If a ferrite core is included, install the ferrite core onto the Ethernet cable according to the following procedure to prevent electrical noise.

If a ferrite core is not included, perform steps (1) and (5) only.

(1) Make sure the printer is turned off.
(2) Affix the ferrite core onto the ethernet cable as shown in the illustration below.
(3) Pass the fastener through the ferrite core.
(4) Loop the fastener around the cable and lock it. Use scissors to cut off any excess.

(5) Connect the interface cable to the connector on the rear panel of the printer.

Link disconnection detection feature

The Ethernet interface model is equipped with a link disconnection detection feature. If the printer is turned on when an Ethernet cable is not connected to it, the POWER and ERROR lamps are simultaneously turned on and off at 2-second intervals to indicate the disconnection.

Be sure to connect the Ethernet cable from a PC or hub to the printer, and then turn the printer on.
3-3. Connecting to a Peripheral Unit

You can connect a peripheral unit to the printer using a modular plug. Note that this printer does not come with a modular plug or wire, so it is up to you to obtain one that suits your needs.

**Important!**

Make sure that the printer is turned off and unplugged from the AC outlet and that the computer is turned off before making connections.

(1) Connect the peripheral drive cable to the connector on the rear panel of the printer.

**Important!**

Do not connect a telephone line into the peripheral drive connector. Failure to observe this may result in damage to the printer.

Also, for safety purposes, do not connect wiring to the external drive connector if there is a chance it may carry peripheral voltage.
3-4. Connecting the Power Cord

Note: Before connecting/disconnecting the power cord, make sure that power to the printer and all the devices connected to the printer is turned off. Also make sure the power cable plug is disconnected from the AC outlet.

(1) Check the label on the back or bottom of the printer to make sure its voltage matches that of the AC outlet. Also make sure the plug on the power cord matches the AC outlet.

(2) If the power cord is not attached to the printer, plug the appropriate end into the AC inlet on the back of the printer.

(3) Plug the power cord into a properly grounded AC outlet.

Important!

If the voltage shown on the label on the of your printer does not match the voltage for your area, contact your dealer immediately.
The power cord is designed for use with this printer only. Do not connect it to any other device.
3-5. Turning Power On

Make sure that the Power cord has been connected as described in "3-4. Connecting the Power Cord".

Turn ON the power switch located on the front of the printer.
The POWER lamp on the control panel will light up.

⚠️ CAUTION

We recommend that you unplug the printer from the power outlet whenever you do not plan to use it for long periods. Because of this, you should locate the printer so that the power outlet it is plugged into is nearby and easy to access.

When an Switch blind is affixed to the printer above the power switch, the ON/OFF marks of the power switch may be hidden. If this occurs, remove the power cord from the outlet to turn the printer OFF.
3-6. Installing the Cable

Install the cable as shown in the diagram below.

3-7. Switch Blind Installation

It is not necessary to install the switch blind. Only install it if it is necessary for you. By installing the switch blind, the following become possible.

- Preventing the power switch from being operated by mistake.
- Ensuring that other people can not easily operate the power switch.

Install the switch blind as shown in the diagram below.

The power switch can be turned ON (|) and OFF (O) by inserting a narrow instrument (ball pen etc) in the holes in the switch blind.

**Important!**

_We recommend that you unplug the printer from the power outlet whenever you do not plan to use it for long periods. Because of this, you should locate the printer so that the power outlet it is plugged into is nearby and easy to access._
3-8. **Bluetooth Settings (For Bluetooth Interface Models only)**

Pair the printer with the master device by following the procedure below.

*Compatibility list:  http://www.star-m.jp/prjump/000031.html*

3-8-1. **Pairing using SSP (Simple Secure Pairing) [Default]**

1. Working on the master device, tap [Settings] and set [Bluetooth] to ON.

   ![iOS Bluetooth Settings](image)

   ![Android Bluetooth Settings](image)

2. After turning the printer's power switch on, press and hold the PAIR button on the rear interface of the printer for 5 seconds or more, and then release it. The LED will flash green.

   ![PAIR button](image)

3. Pairing will be possible for 60 seconds from when the LED begins flashing green. During this time, execute "Search for devices" from the master device and tap the relevant device from the displayed list.

   **Device name:** Star Micronics (default)

4. In an iOS device, after pairing, the LED will automatically begin flashing blue, and the printer will be automatically connected. In an Android device, the LED turns blue only while data is sent.

5. Connect to the printer from the master device application and perform printing. If the printing is successful, the pairing process has been completed.

   **Note:** The printer performs various processes immediately after connecting to or disconnecting from a master device. Please wait approximately 0.1 seconds after connecting, and approximately 0.5 seconds after disconnecting, before beginning communications with the printer. This wait will ensure that the next action you perform is executed correctly.
3-8-2. Pairing using PIN code
Enter the following information in the master device if it does not support SSP, or when otherwise necessary.

<table>
<thead>
<tr>
<th>PIN:</th>
<th>1234 (default)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device name:</td>
<td>Star Micronics (default)</td>
</tr>
</tbody>
</table>

It is recommended that you change the PIN code for greater security.
For details regarding changing the PIN code, please see the “Software Manual -Star Bluetooth Utility-”.

3-8-3. Auto Connection Function (iOS only)
Each time the wireless connection is disconnected while communicating with upper-level iOS devices including iPad over Bluetooth, it is necessary to move back to the Bluetooth setting screen in the upper-level iOS device and tap the desired printer name again to build a connection. This is an iOS specification.

In order to save this labor, this printer is equipped with the Auto Connection function that automatically requests a connection from an upper-level iOS device that was connected to the printer last time.

You can also check the current ON/OFF setting by performing self-printing.

Caution: If "Auto Connection function" is set to ON when using devices other than iOS, a Bluetooth communication with the printer may fail. To use devices other than iOS, such as the Android/Windows devices, make sure you turn off the "Auto Connection" function before using the printer.

For information on how to set up this function, see "3-8-4. Setting up Auto Connection".

<table>
<thead>
<tr>
<th>Auto Connection ON</th>
<th>Auto Connection OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconnecting without changing the master device</td>
<td>After the printer is turned on, it automatically connects to the last master device that was connected. After turning on the printer, tap this printer’s name on the Bluetooth settings screen on the master device.</td>
</tr>
<tr>
<td>Changing the connected master device</td>
<td>Disconnect the Bluetooth connection in such a way as to turn OFF the power to the upper-level device automatically connected. Then, establish a pairing with a desired master device. After turning on the printer, establish a pairing with a desired master device.</td>
</tr>
<tr>
<td>Example (recommended)</td>
<td>When connecting directly to the printer from one master device.</td>
</tr>
</tbody>
</table>
3-8-4. Setting up Auto Connection

◆ Setting up from the Main Unit for the SP742

Note: The following procedure explains how to change the Auto Connection function setting from ON to OFF.
If you want to change it from OFF to ON, please follow the same procedure.

1. When paper is loaded in the printer and it is turned on, the [POWER] LED (green) on the front of the printer turns on.
2. If you hold down the [RST] button on the back of the printer for at more than five seconds, initial operations are performed in the same way as when the power is turned on, and the LEDs on the front of the printer flash. If you press the [RST] button when the printer is placed upright, place it horizontally again while the LED is flashing.

3. The following information is printed. After that, turn the printer off and then back on again to set "Auto Connection" to OFF.

![RST button]

```
< Current Setting >
Auto Connection : OFF
To enable this setting, turn
Printer Power OFF and turn ON.
```

4. To make sure "Auto Connection" is set to OFF correctly, perform self-printing as described in "5-4-1. Self Printing Mode"

◆ Setting from the Software

After pairing your device and the SP700, change "Auto Connection" in the following application provided by our company.

- iOS: Download "Star Setting Utility" from the following Web site.
  [http://www.star-m.jp/prjump/000003.html](http://www.star-m.jp/prjump/000003.html)

- Android: Download "Star Setting Utility" from the following Web site.
  [http://www.star-m.jp/prjump/000004.html](http://www.star-m.jp/prjump/000004.html)

- Windows: Download "Star Bluetooth Utility" from the following Web site.
  [http://www.star-m.jp/prjump/000006.html](http://www.star-m.jp/prjump/000006.html)
3-8-5. Resetting Bluetooth Settings

The PIN code, device name, and other settings can be reset by following the procedure given below.

(1) While inserting a thin object such as the tip of a pen and holding down the RST button on the rear of the printer, turn on the printer's power switch. The POWER LED (green) and the ERROR LED (red) on the front of the printer start flashing.

(2) Hold down the RST button for 4 seconds or more (note 1), and then release it.

(3) After you release the RST button, if the LED stops flashing and the POWER LED remains lit green within 12 seconds, initialization is complete. If the LED continues to flash for longer than 12 seconds after releasing the RST button, this indicates that initialization was not successful. Turn off the printer's power and then try again from step 1.

(4) Turn off the printer's power switch and delete the pairing setup with the master device.

Note 1: In step 2, if you do not hold down the RST button for long enough, initialization will not complete correctly.

For F/W Ver2.0, Ver3.0a, and Ver3.0b interfaces

In step 2, you need to hold down the RST button for 8 seconds or more.

Also, after finishing steps 1 to 3, to check that initialization was completed correctly, perform self-printing. If the second sheet (** Bluetooth Information ***) is not printed, initialization has not been completed correctly. If this happens, turn off the printer's power, and then try again from step 1.

(You can check the firmware version from the self-printing results. See "5-4. Adjustment Mode" for the self-printing procedure.)

2: Do not turn off the printer during initialization; otherwise initialization will not complete correctly.

3: If initialization is not completed correctly, turn off the printer's power and then try again from step 1.
4. Loading the Ribbon Cartridge and Paper

4-1. Loading the Ribbon Cartridge

① Turn off power to the printer.
② Open the front cover by holding the finger grips on both ends of the cover and lifting it up.

---

**Important!**

1. Do not touch the print head immediately after printing as it can be extremely hot.
2. Do not touch the cutter blade.
   - There is a cutter inside the paper outlet slot. Not only should you not put your hand in the paper outlet slot while printing is in progress, never put your hand into the outlet even when printing is not in progress.

---

③ Place the ribbon cartridge in the direction shown in the figure and press it down to load it. If loading of the ribbon cartridge is not satisfactory, press down the cartridge while rotating the ribbon feed knob in the direction of the arrow.
④ Turn the ribbon feed knob of the ribbon cartridge in the direction of the arrow to remove slack in the ribbon.

⑤ Close the front cover.

**Note:** When removing the ribbon cartridge, raise the finger grips as shown in the figure.
4-2. Loading the paper

Use a paper roll that complies with the printer specifications.

① Open the printer cover by sliding the latch toward you.

![Diagram of opening the printer cover]

**Important!**

1. Do not touch the print head immediately after printing as it can be extremely hot.

2. Do not touch the cutter blade.
   - There is a cutter inside the paper outlet slot. Not only should you not put your hand in the paper outlet slot while printing is in progress, never put your hand into the outlet even when printing is not in progress.

② While observing the direction of the roll, set the paper roll into the hollow, and pull on the leading edge of the paper toward you.

![Diagram of setting the paper roll and pulling the leading edge]

③ Push down both sides of the printer cover to close.

![Diagram of closing the printer cover]

**Note:** Make sure that the printer cover is securely closed.
4-2-1. Compliant Paper Roll Specifications

<table>
<thead>
<tr>
<th>Paper type</th>
<th>Ordinary bond and carbonless copy paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper width</td>
<td>76±0.5 mm (3.0 inches)/57.5±0.5 mm (2.25 inches)/69.5±0.5 mm (2.75 inches)</td>
</tr>
<tr>
<td>Thickness</td>
<td></td>
</tr>
<tr>
<td>• Single</td>
<td>0.06 mm to 0.085 mm</td>
</tr>
<tr>
<td>• Copies</td>
<td>Original + 2 copies (Max. 0.2 mm)</td>
</tr>
<tr>
<td>Roll diameter</td>
<td>85mm (3.35 inches) max.</td>
</tr>
<tr>
<td>Core</td>
<td>12±1 mm (Inner dia.), 18±1 mm (Outer dia.)</td>
</tr>
</tbody>
</table>

Note 1: Do not glue or tape the paper roll and shaft core together.
2: Do not fold the tail end of the paper.
4-3. Installing the Roll Paper Guide

When using paper roll with 57.5 mm or 69.5 mm width, install the attached roll paper guide in the groove in the printer. The setting for memory switch 2-A and 2-B must be changed to change the print width.

When you change the effective print width (paper roll width), change the printer utility’s memory switch setting. For details, see the printer utility help.
4-4. Setup Precautions

⚠️ WARNING ⚠️

- Shut down your equipment immediately if it produces smoke, a strange odor, or unusual noise. Immediately unplug the equipment and contact your dealer for advice.
- Never attempt to repair this product yourself. Improper repair work can be dangerous.
- Never disassemble or modify this product. Tampering with this product may result in injury, fire, or electric shock.
- Do not touch the cutter blade.
  - There is a cutter inside the paper outlet slot. Not only should you not put your hand in the paper outlet slot while printing is in progress, never put your hand into the outlet even when printing is not in progress.
  - The printer cover can be opened when replacing the paper. However, since the cutter blade is on the inside of the printer cover, be careful not to place your face or hands too close to the cutter blade.
- During and immediately after printing, the area around the print head is very hot. Do not touch it, as you could be burned.
- Since working on the cutter may be dangerous, be sure to turn off the printer first.

⚠️ CAUTION ⚠️

- We recommend that you unplug the printer from the power outlet whenever you do not plan to use it for long periods. Because of this, you should locate the printer so that the power outlet it is plugged into is nearby and easy to access.
- If the voltage shown on the label on the of your printer does not match the voltage for your area, contact your dealer immediately.
- Make sure that the printer is turned off and unplugged from the AC outlet and that the computer is turned off before making connections.
- Do not connect a telephone line into the peripheral drive connector.
  Failure to observe this may result in damage to the printer.
  Also, for safety purposes, do not connect wiring to the external drive connector if there is a chance it may carry peripheral voltage.
- Do not operate the cover open lever while pressing on the printer cover with your hand.
- Do not pull the cover open lever and open the printer cover when printing is in progress or when the auto cutter is operating.
- Do not pull out paper while the printer cover is closed.
- If liquids, foreign objects (coins and paper clips), and so on enter the printer, turn off the printer, unplug it from the AC outlet, and contact your dealer for advice. Continued use could cause a short circuit, which may result in fire or electric shock.
- Place the printer in a horizontal position when installing the paper, even if the model can be installed vertically. If the paper is installed with the printer in a vertical position, the printer will be unstable and could fall, which may result in injury.
⚠️ CAUTION

Wireless Communication

- Do not use the device where using wireless devices is prohibited or may cause interference or danger.
- The radio waves generated by the device may interfere with the operation of electronic medical devices. If you are using any electrical medical device, contact its manufacturer for the restrictions on the use of the device.
- Security functionality for Bluetooth is installed in this product. Configure the security settings according to the manual (available on the Star Micronics website) to reduce the risk of security issues.
- This device supports Bluetooth. Since this functionality may be limited by local regulations, first review the radio laws specific to the country in which the product will be used.
- Below is a list of laws this device has been approved by. As Star Micronics is committed to constant innovation, revisions may be made without an announcement. Access the Star Micronics website for the latest listing of approvals.
- Please refer to Star Micronics website for the latest information and manuals.
5. Control Panel and Other Functions

5-1. Control Panel

① POWER lamp (Green LED)
   Lights when the power is ON.

② FEED button
   Press the FEED button to feed roll paper.

③ ERROR lamp (Red LED)
   Indicates various errors in combination with POWER lamp.

5-2. Basic Indicators

<table>
<thead>
<tr>
<th></th>
<th>POWER lamp</th>
<th>ERROR lamp</th>
<th>Buzzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power On/Off</td>
<td>On/Off</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>No Error</td>
<td>On</td>
<td>Off</td>
<td>—</td>
</tr>
</tbody>
</table>
## 5-3. Errors

1) Recoverable error

<table>
<thead>
<tr>
<th>Error Description</th>
<th>POWER lamp</th>
<th>ERROR lamp</th>
<th>Buzzer</th>
<th>Recovery Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper end error</td>
<td>On</td>
<td>Flashes (On: 1 sec./Off: 1 sec.)</td>
<td>4 short beeps (0.13 sec.) repeated twice</td>
<td>*1</td>
</tr>
<tr>
<td>Printer cover open error</td>
<td>On</td>
<td>On</td>
<td>Beep</td>
<td>*2</td>
</tr>
<tr>
<td>Front cover open error</td>
<td>Flashes (On: 0.5 sec./Off: 0.5 sec.)</td>
<td>On</td>
<td>Beep</td>
<td>*3</td>
</tr>
<tr>
<td>Head high temperature detection</td>
<td>Flashes (On: 1 sec./Off: 1 sec.)</td>
<td>Off</td>
<td>None</td>
<td>*4</td>
</tr>
<tr>
<td>Board high temperature detection</td>
<td>Flashes (On: 2 sec./Off: 2 sec.)</td>
<td>Off</td>
<td>None</td>
<td>*5</td>
</tr>
<tr>
<td>Cutter error (on models with cutter)</td>
<td>On</td>
<td>Flashes (On: 0.125 sec./Off: 0.125 sec.)</td>
<td>3 short beeps (0.13 sec. + 0.13 sec. + 0.5 sec.)</td>
<td>*6</td>
</tr>
<tr>
<td>Mechanical error (other than cutter error)</td>
<td>On</td>
<td>Flashes (On: 0.25 sec./Off: 0.25 sec.)</td>
<td>2 short beeps (0.13 sec. + 0.5 sec.)</td>
<td>*7</td>
</tr>
<tr>
<td>Black mark detection error</td>
<td>On</td>
<td>Flashes (On: 0.5 sec./Off: 0.5 sec.)</td>
<td>3 short beeps (0.13 sec. + 0.13 sec. + 0.13 sec.)</td>
<td>*8</td>
</tr>
<tr>
<td>Link disconnection detection (Physical link disconnection)</td>
<td>Flashes at 2-second intervals</td>
<td>Flashes at 2-second intervals</td>
<td>—</td>
<td>*9</td>
</tr>
<tr>
<td>Link disconnection detection (IP address lost)</td>
<td>Flashes at 0.125-second intervals</td>
<td>Flashes at 0.125-second intervals</td>
<td>—</td>
<td>*10</td>
</tr>
</tbody>
</table>

*1  Automatically recovered by loading a new paper roll, then closing the printer cover.
*2  Automatically recovered by closing the printer cover.
*3  Automatically recovered by closing the front cover.
*4  Automatically the printer is recovered after the print head has cooled.
   A print head temperature error is not abnormal.
*5  Automatically the printer is recovered after the board has cooled.
6) Automatically the printer is recovered if the cutter returns to the home position after turning the power OFF and ON.
   Restoration is also possible with the <DLE> <ENQ> n command when in the ESC/POS mode.

Note
1) If the cutter doesn’t return to the home position, or doesn’t perform the initial movement, it cannot be recovered.
2) If the paper is jammed, turn the power OFF, clear the jammed paper, then turn the power ON.
3) When the error occurs:
   STAR Mode: Non recoverable error
   ESC/POS Mode: Recoverable error

7) Turn the power OFF, clear the jammed paper or remedy another problem and then turn the power ON.
   Automatically the printer is recovered if the carriage returns to the home position after turning the power OFF and ON.
   Restoration is also possible with the <DLE> <ENQ> n command when in the ESC/POS mode.
   When the error occurs:
   STAR Mode: Non recoverable error
   ESC/POS Mode: Recoverable error

8) For paper jam errors:
   Clear the jammed paper and change the paper roll if necessary.
   For incorrect paper format errors:
   Change the paper roll and use a paper roll with the correct black mark.

9) Connect an Ethernet cable. For details, see section "3-2-4. Connecting Ethernet Cable"
   ※ Ethernet interface model only

10) Set the correct IP address and restart the printer.
    ※ Ethernet interface model only

2) Non recoverable error

<table>
<thead>
<tr>
<th>Error Description</th>
<th>POWER lamp</th>
<th>ERROR lamp</th>
<th>Buzzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash memory write error</td>
<td>Off</td>
<td>Flashes (On: 1 sec./ Off: 1 sec.)</td>
<td>None</td>
</tr>
<tr>
<td>Thermistor failure error</td>
<td>Off</td>
<td>Flashes (On: 0.25 sec./ Off: 0.25 sec.)</td>
<td>2 short beeps (0.13 sec. + 0.5 sec.)</td>
</tr>
<tr>
<td>Power supply error</td>
<td>Off</td>
<td>Flashes (On: 2 sec./ Off: 2 sec.)</td>
<td>None</td>
</tr>
<tr>
<td>CPU error</td>
<td>Off</td>
<td>On</td>
<td>One long beep (2 sec.)</td>
</tr>
<tr>
<td>RAM R/W error</td>
<td>Off</td>
<td>On</td>
<td>None</td>
</tr>
</tbody>
</table>

Note
If a non-recoverable error occurs, turn the power OFF, wait at least 10 seconds, and turn the power back ON. If the non-recoverable error continues to be indicated, consult a dealer for repairs.
5-4. Adjustment Mode

There are the following seven adjustment modes.
The device will enter the adjustment mode if you turn it on while pressing the FEED switch.

1. The Self Printing Mode is entered by releasing the FEED switch after the buzzer sounds once. (Refer to Section "5-4-1. Self Printing Mode".)

2. Adjusting the Dot Alignment Mode is entered by releasing the FEED switch after the buzzer sounds twice. (Refer to Section "5-4-2. Adjusting the Dot Alignment Mode".)

3. The Hexadecimal Dump Mode is entered by releasing the FEED switch after the buzzer sounds three times. (Refer to Section "5-4-3. Hexadecimal Dump Mode".)

4. The Black Mark Sensor Alignment Mode is entered by releasing the FEED switch after the buzzer sounds four times. (Refer to Section "5-4-4. Black Mark Sensor Alignment Mode".)

5. The Near End Sensor Adjustment Mode is entered by releasing the FEED switch after the buzzer sounds five times. (Refer to the separate Specifications Manual for details.)

6. The Memory Switch Manual Setting Mode is entered by releasing the FEED switch after the buzzer sounds six times. (Refer to the separate Specifications Manual for details.)

7. The Memory Switch Override Mode is entered by releasing the FEED switch after the buzzer sounds seven times. (Refer to the separate Specifications Manual for details.)

Returns to (1).
5-4-1. Self Printing Mode

Self-printing will be performed to print the Ver. No. and printer settings.
5-4-2. Adjusting the Dot Alignment Mode

You may never have to use the procedure described in this section, but after you have been using your printer for some time you may find that the dots of some graphics do not align correctly. For example, what should look like:

```
  H H H
  H H H
```

may come out looking like one of the following:

```
  H H H
  or like this H H H
```

This is caused when mechanical parts of the printer get out of alignment. This happens only rarely and you may never experience it at all throughout the life of the printer. If you do have problems, use the following procedure to correct it.

1. Enter the Dot Alignment Adjust Mode according to the procedure described in Section "5-4. Adjustment Mode".

2. After entering the Dot Alignment Adjust Mode, a printout of the adjustment patterns similar to the printout below will be printed. The asterisk indicates the current adjustment pattern.

```

```

```
(3) To adjust, use the FEED switch to select the adjustment pattern from the printout with the smallest gap between the first printing pass and the return printing pass. Press the FEED switch once to specify the first adjustment pattern, twice to specify the second adjustment pattern, and so on up to seven times to specify the seventh adjustment pattern.

At the number that you want to specify, press and hold (2 seconds) the FEED switch until the long buzzer sounds. This will specify the setting value. (For example, if you want to select the eighth pattern from the top, press the FEED switch seven times. Then, at the eighth pattern, press and hold (2 seconds) the FEED switch until the long buzzer sounds.)

There are only twenty three adjustment patterns. The buzzer will sound each time the FEED switch is pressed. However, if you press the FEED switch more than twenty three times, a warning alert will sound.

(4) If there is no matching pattern among the adjustment patterns, perform the “Backward” or “Forward” operation described below in order to print a printing pattern in which the dot alignment settings are changed. Then, repeat step (3).

**Backward:**
Press and hold the FEED switch for 2 to 4 seconds. The buzzer will beep, and the printer will print a pattern in which the forward is adjusted more leftward of the presently indicated pattern and the backward is adjusted more rightward.

**Forward:**
Press and hold the FEED switch for 4 seconds or longer. The buzzer will beep-beep, and the printer will print a pattern in which the forward is adjusted more rightward of the presently indicated pattern and the backward is adjusted more leftward.

(5) After selecting the adjustment pattern, the setting value is stored in the non-volatile memory. A printout similar to the one below with the selected adjustment pattern highlighted and the message “Adjust Completed!” will be printed.

**Note:** Before the printout is printed, the setting value is stored in the non-volatile memory of the printer after the adjustment pattern has been selected and the long buzzer sounds. During this period, do not set the power switch to off. If this power switch is set to off when the setting value is being stored in the non-volatile memory, the setting value for the adjustment pattern and all of the memory switch settings will be reset.

(6) The long buzzer sounds once more and the setting value is automatically set. The adjusting the dot alignment mode is complete.
5-4-3. Hexadecimal Dump Mode

Each of the signals sent from the computer to the printer will be printed out in hexadecimal code. This function allows you to check if a control code sent to the printer by the program being used is correct or not. The last line is not printed if its data is less than one full line. However, if the FEED switch is pressed, the last line will be printed. To turn off the mode, it is necessary to turn off the printer completely.

```plaintext
\\\\\\ Hexadecimal Dump \\
00 01 02 03 04 05 06 07 .......... 
08 09 0A 08 0C 0D 0E 0F .......... 
10 11 12 13 14 15 16 17 .......... 
18 19 1A 1B 1C 1D 1E 1F .......... 
20 21 22 23 24 25 26 27 !"#$%&' 
28 29 2A 2B 2C 2D 2E 2F ( ) * + - . / 
30 31 32 33 34 35 36 37 01234567 
38 39 3A 3B 3C 3D 3E 3F 89 : < .```
5-4-4. Black Mark Sensor Alignment Mode
1. Turn the printer off and unplug the power cord.
2. Place the printer upright as shown below to remove the screws and remove the dip switch cover from the bottom of the printer. Be sure to place the printer upright because you will not be able to properly adjust the printer if it is placed on its side.

3. Since it is adjusted by rotating the volume VR2, check the position of the volume. Prepare a small slotted screwdriver that will fit in the hole.
4. Set the roll paper not for black mark.
5. Enter the black mark sensor adjustment mode according to the procedure described "5-4. Adjustment Mode".
6. Rotate the volume VR2 using micro screwdriver, to adjust it to a position whereat both the ERROR (red LED) and the POWER (green LED) lamps light.
7. Turn the power OFF.

This completes the black mark sensor adjustment.
6. Preventing and Clearing Paper Jams

6-1. Preventing Paper Jams
The paper should not be touched during ejection and before it is cut. Pressing or pulling the paper during ejection may cause a paper jam, paper cutting failure or line feed failure.

6-2. Removing Paper Jam
If a paper jam occurs, clear it as described below.

(1) Set the power switch to off to turn off power to the printer.

(2) Push the cover open lever, and open the printer cover. If the printer cover will not open on an auto cutter model, it means that the auto cutter is not in the home position (or locked). In this case, return the auto cutter to the home position by following the instructions provided in Section "6-3. Releasing a Locked Cutter (Auto Cutter Mode only)".

(3) Remove the jammed paper.

⚠️ CAUTION
Take care not to damage the printer when removing the jammed paper.

(4) Position the roll paper straight and close the printer cover gently.

   Note 1: Make sure that the paper is positioned straight. If the printer cover is closed with the paper skewed, a paper jam may result.

   Note 2: Lock the printer cover by pressing down on the sides. Do not try to close it by pressing down on the center. The cover may not lock properly.

(5) Set the power switch to on to turn on power to the printer. Make sure that the ERROR LED is not lit.

   Note: While the ERROR LED is lit, the printer will not accept any commands such as the print command, so make sure that the printer cover is locked properly.
6-3. Releasing a Locked Cutter (Auto Cutter Mode only)

If the auto cutter locks up or fails to cut the paper, follow the steps below.

⚠️ WARNING
Since working on the cutter may be dangerous, be sure to turn off the printer first.

1. Set the power switch to OFF to turn off the printer.

2. Ordinarily, a locked cutter will recover automatically by closing all the covers and turning the power back ON. Recovery means that the locked cutter has been released, so steps (3) and thereafter are unnecessary. If the cutter has not recovered, proceed to step (3).

3. Pull the cover open lever towards you, and open the printer cover. The printer cover may not open due to the cutter being locked. In this case, follow steps (4) and (5) to first open the front cover and remove the tear bar. If the printer cover opens, proceed to step (6).

4. Open the front cover by holding the finger grips on both ends of the cover and lifting it up.

5. Remove the two screws to remove the tear bar.

Note: Since the print head is hot immediately after printing, be sure not to touch it. On an auto cutter model, a paper cutter is located at the paper outlet slot. Be careful not to touch the cutter blade.
(6) After you have opened the printer cover, remove the four screws to remove the printer cover and reveal the cutter.

(7) If the cutter is locked, insert a Phillips screwdriver into the Phillips screw hole on the side of the cutter, and turn it in the direction of the arrow shown below, in order to return the cutter to its normal position.

(8) Reinstall the printer cover by tightening its screws.

(9) Reinstall the tear bar by tightening its screws.
Hereby, STAR MICRONICS CO.,LTD. declares that this Wireless Device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Declaration of Conformity

We declare, under our solo responsibility, that the product to which this declaration relates complies with the provisions of following European Directives:

1999/5/EC
2014/30/EU
2014/35/EU
2011/65/EU , 2015/863

harmonised standard

RADIO : EN 300 328 V1.9.1:2015
         EN 301 489-1 V1.9.2:2011
         EN 301 489-17 V2.2.1:2012
         EN 55032:2012 Class B (CISPR 32:ed1.0-2012)
         EN 61000-3-2:2014 (IEC 61000-3-2:2014)
         EN 61000-3-3:2013 (IEC 61000-3-3:2013)
         EN 55024:2010 (CISPR 24:ed2.0-2010)

EMC : 92-146-EMC , 91-002-09-EMC , 90-051-EMC

SAFETY : EN 60950-1:2006 / A2:2013
         EN 62311:2008
         EN 62479:2010

ENVIRONMENT: EN 50581:2012

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Importer's Name Star Micronics Europe Ltd.
Importer's Address Star House, Peregrine Business Park, Gomm Road,
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Type of Equipment Dot Matrix Printer
Model Name SP700 , SP700R , 4679-GCS
Ref. Radio Report No. F161591E1, F161591E2
Ref. EMC Report No. F111592E1 ,
                      92-146-EMC , 91-119-EMC , 91-002-09-EMC , 90-051-EMC
Ref. Safety Cert. No. Z1 16 02 15854 192 ,
                      S161188E1
Ref. Environ. Report No. SP700-RoHS-02

Place High Wycombe - U.K.  
Date 13-02-2017  
Year of 1st CE mark '06

D. Pearce (Signature)  
David Pearce (Full Name)  
Technical Director (Position)