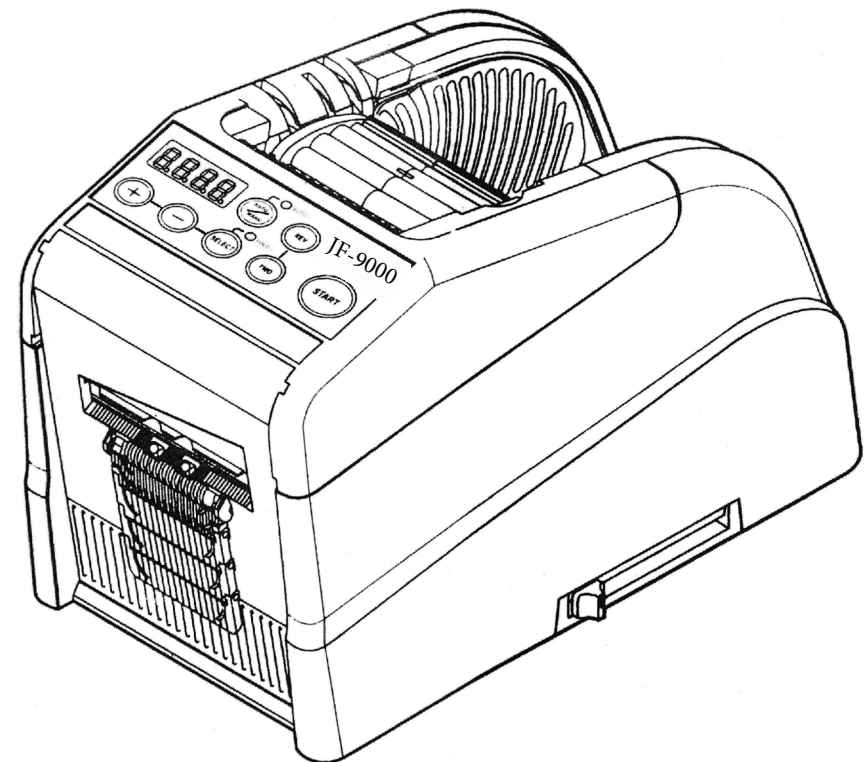# U.S. SOLID

AUTO TAPE DISPENSER
JF-9000

INSTRUCTION MANUAL

For questions or concerns, e-mail service@ussolid.com,
visit www.ussolid.com

CE

Please read before use

Thank you very much for purchasing our tape dispenser JF-9000.
Most of the functions are the same as JF-3000, but the JF-9000
adds the ability to fold the tape edge and can be programmed to
cut up to six different lengths.
This is the most effective feature for removing tape very easily in a
production process or for end customers removing tape. Please
read this instruction manual carefully in order to use this machine
properly.
After that, please keep this manual in your files and read it again as
the need arises.

Contents

Warranty

We warrant to the original purchaser of the product that will be free
form defects in material or workmanship for as long as the original
purchaser owns the product, when given normal wear and proper
usage.
The limited warranty for the machine shall be for a period of 180 days
from the date of purchase.
The spare parts such as Cutting Blades, Rollers, are not covered
under the warranty period as they are considered as "wear parts".
This warranty is only valid if the product:

◆Was not damaged while being installed.

◆Was operated in accordance with the product's
specifications, instructions and any technical support
directions.

◆Was not modified or damaged by tempering, user error, accident,
disaster, abuse, misuse, power supply, power fluctuation,
alteration, repair, modification, affixing or replacement by
someone other than the original product.

Troubleshooting

Before returning the machine for repair, please check the following:

The POWER SWITCH is on, but the machine can not run.	The AC CORD is loose.	Check whether the AC CORD plug in the outlet firmly.
	The FUSE has blown.	Replace with a new FUSE. Stop using the machine immediately even if the FUSE blows again after replacing.
In the case of auto mode, the next tape doesn't dispense properly.	Some objects may be found on the sensor.	Remove the objects.
	Not go through the sensor.	Use SEPARATOR when using the tape width less than 25mm.
	Sensor is exposed to an intense light and an error has occurred.	The machine should be placed in another position.
	The tape has extremely low reflec-tance.	Some types of tape may not be used under AUTO mode.
The tape length is different from the setting length.	The adhesive is too strong. The tape is slipping. The tape is elastic.	Correct the setting after cutting several test pieces.
Display E-02 after installing BLADE UNIT.	BLADE UNIT may not be installed correctly.	Refer to E-02 Error Message on P.12 and install BLADE UNIT once again.
Display is not displayed even closed though switching on.	UPPER CASE may not be properly.	Close UPPER CASE properly.

> **!** If the machine still cannot operate properly, stop using the machine immediately and contact us for repair authorization.

Specifications

Power Requirement	100- 240VAC 50/60HZ
Input Voltage Range	±5%
Wattage	25W
Dimensions	116mm(W) x 148mm(H) x 222mm(D)
Weight	1.83 KG.
Body Material	ABS
Tape Length	5mm - 999mm (Folding Function-OFF)
	15mm - 999mm (Folding Funcjjon-ON)
Tape Width	6mm - 60mm
Feeding Speed	200mm/sec. (craft tape)
	53pcs/min (in the case of cutting craft tape 100mm length)
	43pcs/min (in the case of cutting craft tape 100mm length with folding the edge)
Max. Outside Dia of Roll	300 mm
Accessories	Power Cord
	2A Fuse [Built-in Inlet]
	Separator / Guide Plate / Blade Oil

Remarks ◆ The specifications are subject to change without prior notice.
　　　　◆The length of the tape may differ from the set length depending on the type of the tape or its condition.
　　　　◆Some types of tape available with the machine may not cut properly depending on conditions.

Safety Instructions

The safety guidelines in this Instruction Manual must be observed in order to prevent damage to the machine or injury to the operator or other persons.

The safety guidelines preceded by "Warning" and "Caution" describe possible injury or damage that may result from operating or maintaining the machine in a manner other than as described in this instruction Manual.

Read and follow the safety precautions carefully before reading the rest of the Instruction Manual.

Definition of Warning and Caution Symbols

⚠ **Warning**   Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ **Caution**   Indicates that miss-handing may result in danger and that the operator is at risk of injury, or the machine is at risk of damage.

△   Indicates Caution
A symbol within the triangle, or the description, will indicate a specific hazard.

🚫   A Prohibited Action
A symbol within the circle, or the description, will indicate a prohibited action.

●   A Required Action
A symbol within the circle, or the description, will indicate a required action.

⚠ Warning

⚡ Do not plug in, unplug the cord, or operate the machine with wet hands.
Failure to observe this may result in injury due to electric shock.

⚠ Never insert your finger, or any other body part, or any foreign object into the machine.
Failure to observe this may result in injury.

⚠ Keep hair or loose clothing away from the machine while it is operating.
Failure to observe this may result in injury.

🚫 This machine is intended for industrial use only.
Do not allow untrained operators or children to operate the machine.
Failure to observe this may result in injury.

🔌 Turn off the power switch and unplug the machine prior to replacing the blade unit or performing any maintenance on the machine.
Failure to observe this may result in serious injury.

🚫 Do not use this machine for anything other than its specified applications.
Use of the machine for any unintended applications can cause injury to the operator or failure of the machine.
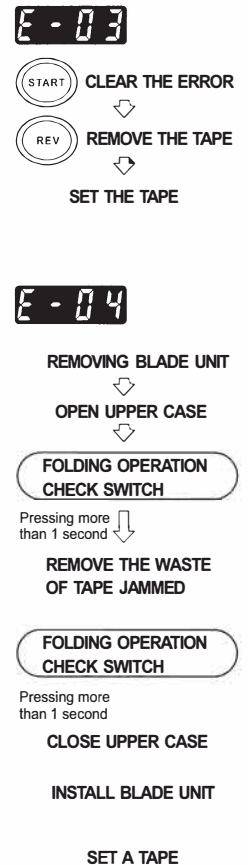

E-03 Motor is Stopped

Indicates that the motor is stopped because of overload.
◆ Press the START BUTTON to clear the error message.
◆ Press the REV BUTTON to remove the tape.
◆ Turn the POWER SWITCH off.
◆ Check the BLADE UNIT and TAPE OUTLET carefully.
◆ Clear and take away the spare tape waste or sticky residue by using tweezers (Clean ROLLER UNIT as needed depending on the condition.)

E-04 Motor Position Error for Folding Function

This is likely to happen when motor is overloaded and stopped.
◆ Remove BLADE UNIT.
◆ Switch off and remove POWER CORD from the machine.
  (When tape is jammed, please refer to "When tape jam is happened" and open UPPER CASE.)
◆ Push POWER CORD into machine and switch on.
  (In the case of opening UPPER CASE, FOLDING OPERATION CHECK SWITCH is only moved.)
◆ Press FOLDING OPERATION CHECK SWITCH more than 1 sec.
  (Stops automatically to the maximum tape outlet position.)
◆ Remove the waste of tape jammed using tweezers.
◆ Press FOLDING OPERATION CHECK SWITCH once again more than 1 sec.
  (Stops automatically to the original position.)
◆ Close UPPER CASE.
  (Operating board turns on electricity and resumes operating.)
◆ Pull your tape backward while pressing REV BUTTON.
◆ Install BLADE UNIT into the body.
◆ Take the proper procedure and set your tape accordingly.

E-03

(START) CLEAR THE ERROR
⇩
(REV) REMOVE THE TAPE
⇩
SET THE TAPE

E-04

REMOVING BLADE UNIT
⇩
OPEN UPPER CASE
⇩
FOLDING OPERATION CHECK SWITCH
Pressing more than 1 second ⇩
REMOVE THE WASTE OF TAPE JAMMED
FOLDING OPERATION CHECK SWITCH
Pressing more than 1 second
CLOSE UPPER CASE
INSTALL BLADE UNIT
SET A TAPE

❗ Do not touch the Blade when you are correcting an error under POWER SWITCH is on.
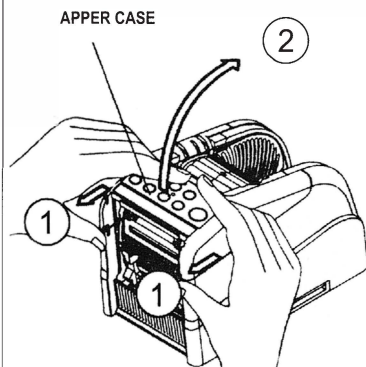
❗ Turn off the POWER SWITCH and stop using the machine.
If the machine cannot work normally after correcting the error.
It seems there is nothing wrong without any error messages.

❗ Do not use the tape if static electricity generates over 1000V.
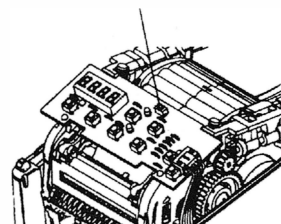It may cause failure to the machine.

When Tape Jam Occurs

1)When operating in manual mode, tape doesn't come properly even if pressing START BUTTON.
2)When operating in auto mode, the next tape doesn't come even if taking the tape ready.
3)Tape doesn't come even if you hear the sound of the motor working.
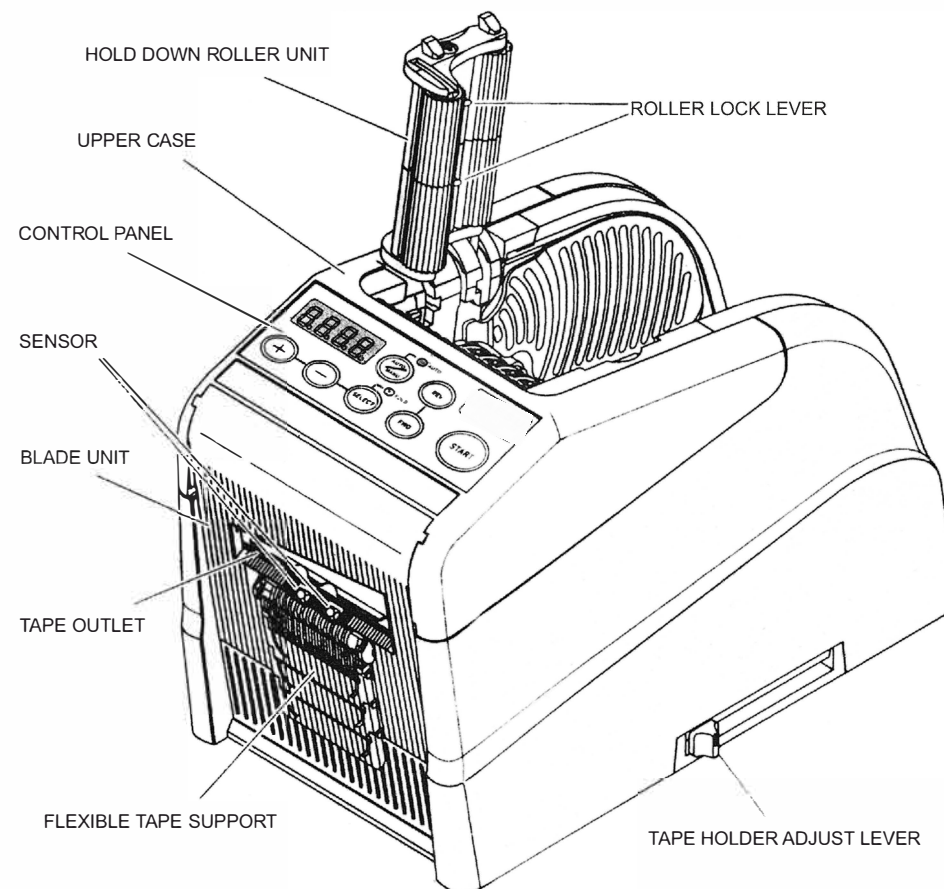Please take the following procedure when you find the problems as mentioned above.

◆Open HOLD DOWN ROLLER UNIT.
◆While pressing REV BUTTON, please pull the tape out backward.
◆Remove BLADE UNIT after switching off and removing the
   power cord from the machine.
   Then check the inside of the machine and remove anything if you
   find some waste tapes on the ROLLERS or BLADE UNIT.
◆Install BLADE UNIT into the body.
◆Connect POWER CORD to machine and switch on.
◆Take the proper procedure and set your tape accordingly.
   In the operation procedure as mentioned above, please take the
   following steps if you can't pull tape from machine.
◆Open UPPER CASE.
   1)Pull Upper Case backward (2mm).
   2)Lift UPPER CASE up while pulling it.
◆Connect POWER CORD to machine and switch on.
   (When opening UPPER CASE, operating board for the folding
   function can move only for operation check.)
◆Press FOLDING OPERATION CHECK SWITCH more than 1 sec.
   (Stops automatically to the maximum tape outlet position.)
◆Remove the waste of tape jammed using tweezers.
◆Press FOLDING OPERATION CHECK SWITCH once again
   more than 1 sec.
   (Stops automatically to the original position.)
◆Close UPPER CASE and install BLADE UNIT into the body.
◆Take the proper procedure and set your tape accordingly.

APPER CASE
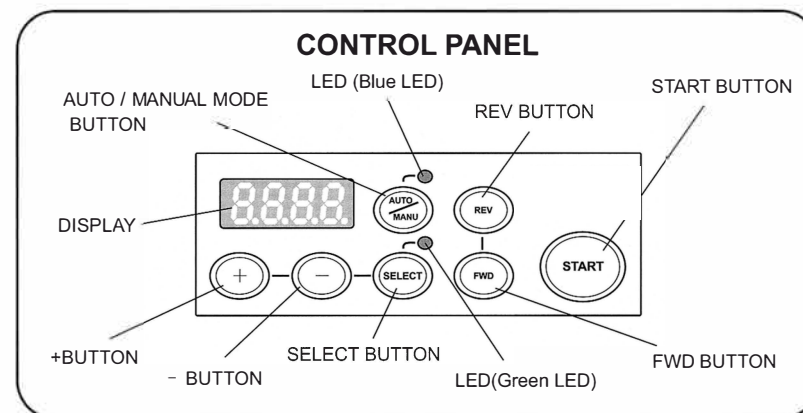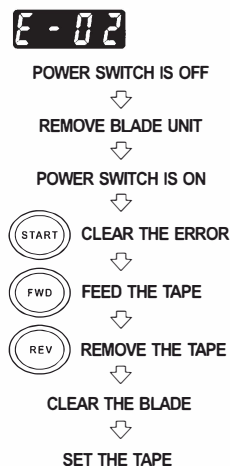
②

①

①

FOLDING OPERATION CHECKSWITCH

Error Messages

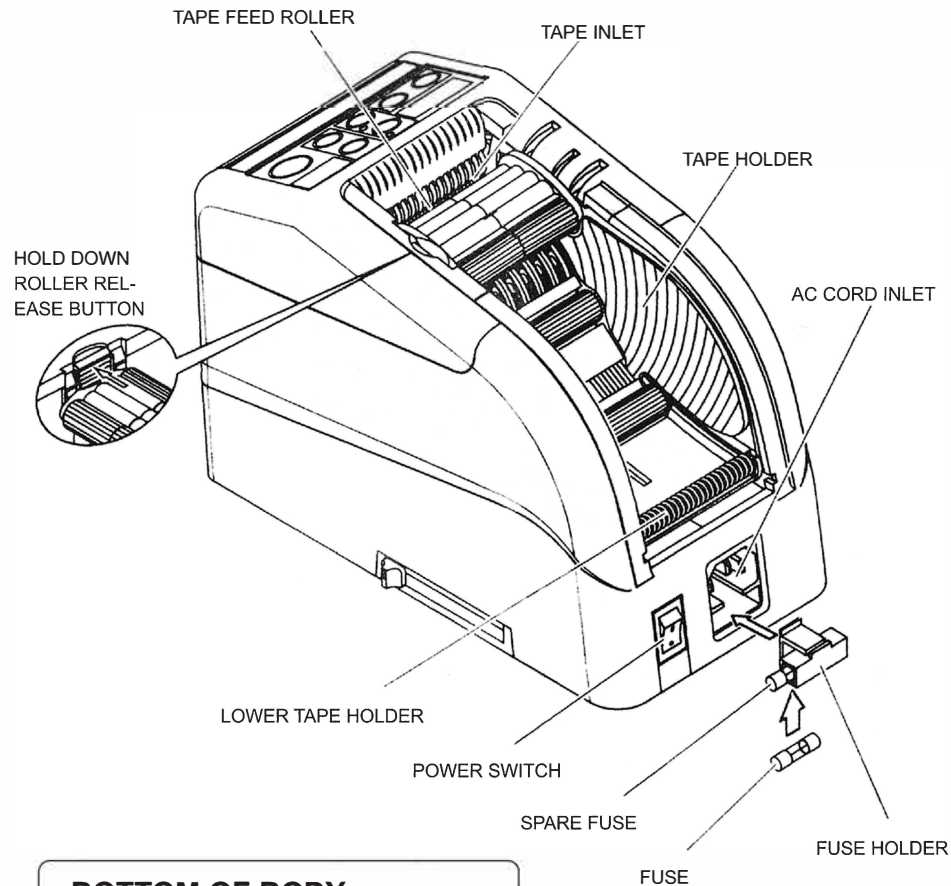The buzzer will sound then a message will flash and show on the
DISPLAY.

E-02 Blade is Out of Position

A signal shows that the blade is not installed properly or machine stops
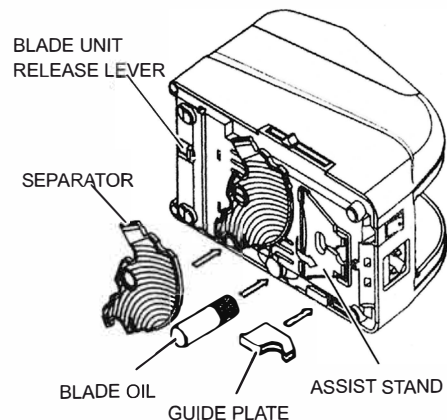because of the thickness or hardness of the tape
◆Turn the POWER SWITCH off.
◆Remove the BLADE UNIT by releasing the BLADE UNIT RELEASING
   LEVER then lift the assembly out of the body.
◆Turn the POWER SWITCH on.
◆Press the FWD BUTTON and feed in the tape once, cut the tape in between
   the TAPE OUTLET and the BLADE UNIT with scissor.
◆Press the REV BUTTON to remove the tape.
◆Clean the BLADE UNIT and lubricate the LOWER BLADE GUIDE.
◆Check the lower blade position and replace the BLADE UNIT.

E - 02

POWER SWITCH IS OFF
⇩
REMOVE BLADE UNIT
⇩
POWER SWITCH IS ON
⇩
(START) CLEAR THE ERROR
⇩
(FWD) FEED THE TAPE
⇩
(REV) REMOVE THE TAPE
⇩
CLEAR THE BLADE
⇩
SET THE TAPE

Identification Of Parts

HOLD DOWN ROLLER UNIT

ROLLER LOCK LEVER

UPPER CASE

CONTROL PANEL

SENSOR

BLADE UNIT

TAPE OUTLET

FLEXIBLE TAPE SUPPORT

TAPE HOLDER ADJUST LEVER

CONTROL PANEL

AUTO / MANUAL MODE
BUTTON

LED (Blue LED)

REV BUTTON

START BUTTON

DISPLAY

+BUTTON

‒ BUTTON

SELECT BUTTON

LED(Green LED)

FWD BUTTON

Identification Of Parts

TAPE FEED ROLLER

TAPE INLET

TAPE HOLDER

HOLD DOWN ROLLER RELEASE BUTTON

AC CORD INLET

LOWER TAPE HOLDER

POWER SWITCH

SPARE FUSE

FUSE HOLDER

FUSE

BOTTOM OF BODY

BLADE UNIT RELEASE LEVER

SEPARATOR

BLADE OIL

GUIDE PLATE

ASSIST STAND

Replace the Blade Unit

Only the Blade is not accepted to be replaced. It needs to be changed with the whole Blade Unit.
◆ Turn the POWER SWI TCH off.
◆ Remove the BLADE UNIT by releasing the BLADE UNIT RELEASE LEVER.
◆ Install the new BLADE UNIT into the body.
◆ Push down on the housing firmly until it is locked in place.
   Make sure that the lower blade is positioned properly, turn the BLADE UNIT over and take a look at the bottom edge of the lower blade.

Maintenance

! Whenever you clean or replace the BLADE UNIT, do not touch the sharp edge of the blade.

Clean the Blade Unit

   When cutting tapes with heavy adhesive, the residue will remain on the blade gradually.
   It is necessary to remove the BLADE UNIT for cleaning.
◆ Turn the POWER SWITCH off.
◆ Remove the BLADE UNIT by releasing BLADE UNIT RELEASE LEVER.
◆ Put some alcohol on a clean dry cloth, or use a swab to remove the residue.
◆ Replace the BLADE UNIT.

Lubricate the Blade

   Lubricate the blade in order to prevent residue from sticking on the blade.
◆ Turn the POWER SWITCH off.
◆ Remove the BLADE UNIT from the body.
◆ Locate three oil holes on the back side of the top blade.
◆ Drip one drop of BLADE OIL into each hole.
◆ Also lubricate LOWER BLADE GUIDE.
◆ Do not lubricate over and over again.
   Wipe away any excess oil using a cotton cloth.
◆ Replace the BLADE UNIT into the body.
◆ Turn the POWER SWITCH on.
   Make several test cuts to make sure the tape will not fall down from the TAPE OUTLET.

Clean the Sensors

   There are two pairs of SENSORS below the TAPE OUTLET.
   If the opening is covered by tape residue or debris, the SENSORS will not detect the presence of tape.
   Always keep clean around the SENSORS.
   To protect the SENSOR, clean the openings after removed the BLADE UNIT carefully.
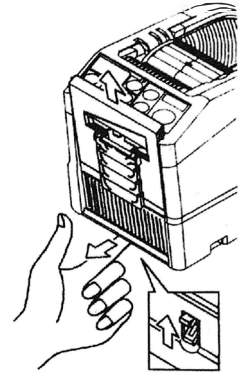
Clean the Rollers

   When waste of tape glue is found, please refer to page 12 and follow the procedure for cleaning the inside of the machine.
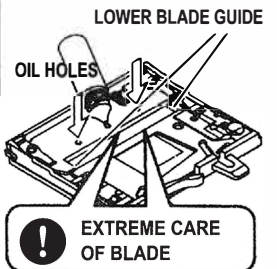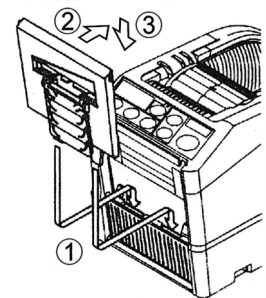
Clean the Body

   Put neutral detergent on a damp cloth to clean the body.
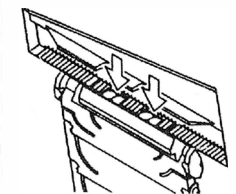   Do not use alcohol or solvent to clean the plastic parts.

REMOVE BLADE UNIT

INSTALL BLADE UNIT

② ③

①

LOWER BLADE GUIDE

OIL HOLES

! EXTREME CARE OF BLADE

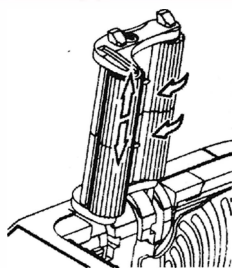BE CAREFUL TO HANDLE THE SENSORS

How to Manage a Curling Tape

◆Press the HOLD DOWN ROLLER RELEASE BUTTON to open the HOLD DOWN ROLLER UNIT.

◆Extend the ROLLER LOCK LEVER so that the roller will not turn.

◆Close the HOLD DOWN ROLLER UNIT.

  With the rollers locked, the tension may cause the length to vary.

   Cut several test pieces to adjust the length if needed..

Use Narrow Tape / Use two Rolls at the Same Time

If the tape is less than 25 mm width or you want to dispense two rolls at the same time, use the SEPARATOR.

To cut tape less than 10 mm in width, place the GUIDE PLATE on the SEPARATOR.

◆Remove the SEPARATOR from the bottom of the body.

◆Open the HOLD DOWN ROLLER UNIT.

◆Insert the SEPARATOR into the body by slotting it into the bottom of the cavity.

◆When cutting tape less than 10 mm, in width place the GUIDE PLATE onto the Separator.

◆Place one roll of tape on either side of SEPARATOR.

◆To hold the tape in place, adjust the TAPE HOLDERS. it is unnecessary to push the SEPARATOR out of position.

  When dispensing two rolls of tape at the same time, it is necessary to feed in the length of both tapes at the same time
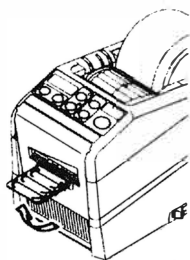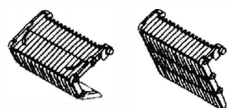
◆Remove the first piece of tape.

◆When the second piece of the tape is removed, tape will also be dispensed from both sides.

GUIDE PLATE

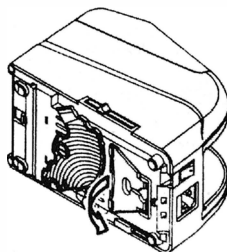**SEPARATOR**

Other Functions

FLEXIBLE TAPE SUPPORT

When cutting tape longer or cutting non-adhesive tape / film, use the FLEX-IBLE TAPE SUPPORT to avoid the tape falling.

ASSIST STAND

Based on the tape material or workpiece, use the ASSIST STAND to lower the body of the machine.

10

Load the Tape

◆Plug in the AC CORD to the AC CORD INLET.

◆Make sure the POWER SWITCH is off then plug into an appropriate grounded AC outlet.

◆Turn the POWER SWITCH on.

  When the POWER SWITCH is turned on, a buzzer will sound.

   At this moment, the mode is set to MANUAL.

◆Press the HOLD DOWN ROLLER RELEASE BUTTON.

◆Place a roll of tape in the machine.

◆Hold the tape by adjusting the TAPE HOLDERS.

  Adjust the TAPE HOLDERS to the proper width. Slide the TAPE HOLDER ADJUST LEVER from the front to the rear of the machine and close it. The TAPE HOLDERS should hold the roll lightly in the center of the cavity of the machine.

   This is very important because it keeps the tape centered. The tape passes over the SENSOR in front of the BLADE UNIT. To support a larger roll of tape, pull the LOWER HOLDER out.
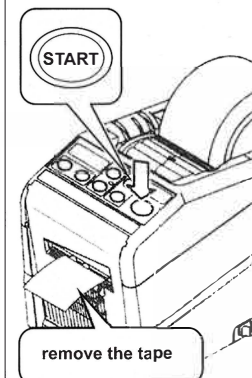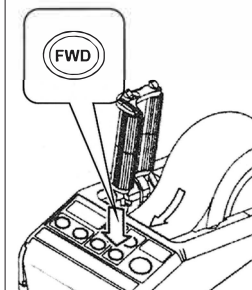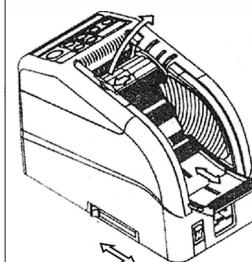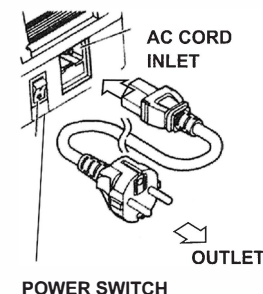
◆Put the tape on the TAPE FEED ROLLER.

◆Press the FWD BUTTON until the tape comes out from the TAPE OUTLET.

  When using a strong adhesive tape, pull a little bit of tape out to position it in the TAPE INLET.

  Press the FWD BUTTON continuously for a few seconds, also help guide the tape into the TAPE INLET.

◆After the tape is loaded and the TAPE HOLDERS are adjusted, close the HOLD DOWN ROLLER UNIT.

◆Press the START BUTTON.

  Remove the first piece of tape and discard it.

AC CORD INLET

OUTLET

POWER SWITCH

FWD

❗ Always use teezers to remove tape.

❗ Whenever loading tape, make sure that the adhesive side of tape is always faced down.

START

◆When removing the roll of tape from the machine, pull the tape backward while pressing the REV BUTTON.
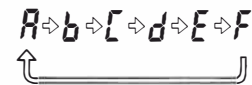
remove the tape

Set the Tape Length

◆ Make sure that the DISPLAY is indicating <cutting length>.
The cutting length is always indicated using some alphabets like A,b,C,d,E,F.

◆ Set the cutting length.
Set your needed length by using +/- BUTTON.
The cutting length is adjustable between 5 mm to 999 mm.
You can set six different lengths by using SELECT BUTTON.
If you press +/- BUTTON briefly, the length changes by 1 mm. And if you press +/- BUTTON longer, if shows fast forward.

Caution
The actual cut length may differ from the displayed length depending on the type of tape and its condition
When cutting short lengths of tape, the cut length may not be consistent or the tape may jam.
Try several test cuts to ensure proper operation.
If you press the -BUTTON to set the length from b to F, you will be able to set ZERO. However, the machine will not start and an alarm will sound even though you press the START BUTTON.

INDICATE CUTTING LENGTH

SELECT $\boxed{A\,100}$

A~F

$A \Rightarrow b \Rightarrow C \Rightarrow d \Rightarrow E \Rightarrow F$

SET THE CUTTING LENGTH
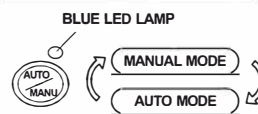
+ INCREASE NUMBER

− DECREASE NUMBER

Mode Setting

MANUAL MODE

◆ Make sure that Blue LED is off.
When the LED LAMP is flashing or turned on, press AUTO/MANUAL MODE BUTTON to turn off the LED LAMP.

◆ Press the START BUTTON once, and the machine will feed in a piece of tape and cut it based on your set length.
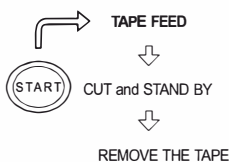
◆ To cut another piece, press the START BUTTON again.

AUTO MODE

◆ Make sure that the Blue LED is flashing.
When the LED LAMP is off, press the AUTO/MANUAL BUTTON to let the LED LAMP flash.

◆ Press the START BUTTON once, and the machine will feed in a piece of tape and cut it based on your set length.
When that piece of tape is removed, the machine will feed in another piece and cut it.
The machine will feed in and cut a new piece of tape once the previous piece of tape is removed.
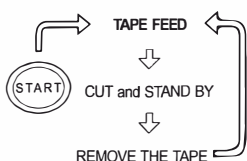
SET AUTO / MANUAL

BLUE LED LAMP

AUTO/MANU (MANUAL MODE / AUTO MODE)

MANUAL MODE
● LIGHT OFF

TAPE FEED
⇩
START CUT and STAND BY
⇩
REMOVE THE TAPE

AUTO MODE
◑ FLASHING
○ LIGHT ON

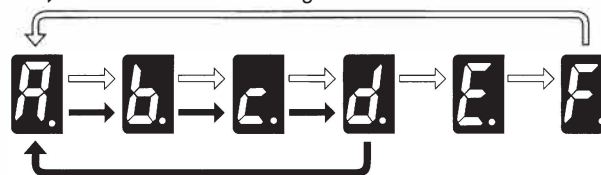TAPE FEED
⇩
START CUT and STAND BY
⇩
REMOVE THE TAPE

Programming Function

This function cuts the material registered from A to F accordingly, as shown in the following figure. Operation will continue repeatedly.
This function can be applied in every mode.

◆ Please follow the instructions on page 7.

◆ Set the cutting lengths from A to F as you prefer.

◆ Please set the cutting length to ZERO for B to F if not necessary. Then skip the positions registered with ZERO accordingly and operate repeatedly.

◆ Apply the cutting length for your first cut.

◆ Press and hold the AUTO/MANUAL BUTTON for more than 1 second. Then [.] will appear on the lower right of the Alphabet display.

◆ Press the AUTO/MANUAL BUTTON and select AUTO MODE or MANUAL MODE.

◆ Press the START BUTTON and the tape will be fed.
When setting MANUAL MODE, the next cutting length will be displayed.
When setting AUTO MODE, the next piece of tape will be fed with the cutting length displayed.

◆ To discontinue the Program Function, please press and hold the AUTO/MANUAL BUTTON until [.] disappears.

Operating Example

⟹ In the case of setting 6 different cut lengths

➡ In the case of zero settings for E and F.

$A. \Rightarrow b. \Rightarrow c. \Rightarrow d. \Rightarrow E. \Rightarrow F.$

Set a cutting length

+ −
⇩ ⇩
SELECT $\boxed{A\,100}$

A~u Setting example A 100mm
⇩

Programing Function setting

AUTO/MANU Press more than 1 second
⇩
Buzzer sound
⇩
$\boxed{A\,100}$
⇧
Confirm [.] description
Display the first cutting length
⇩

AUTO/MANUAL setting
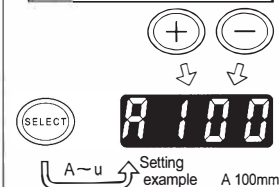
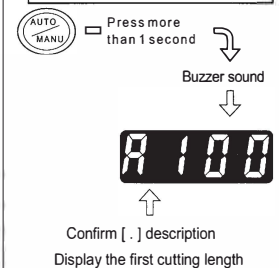AUTO/MANU (MANUAL MODE / AUTO MODE)
⇩
START

Folding Mode

This mode is used to fold the edge of the tape.
This mode can be used with other functions.

◆ Press and hold the SELECT BUTTON for more than 1 second.
The Green LED will flash if you press and hold the SELECT BUTTON for more than 1 second. If the setting is complete and you press the START BUTTON, a piece of tape with the edge folded based on the set cutting length will be ready to take after pressing the START BUTTON again.

◆ Set other modes as needed.

◆ In Folding Mode, the minimum cutting length is 15mm. The folding length is fixed at 7mm.

◆ To cancel Folding Mode, press and hold the SELECT BUTTON for more than 1 second. Please make sure the Green LED is off.
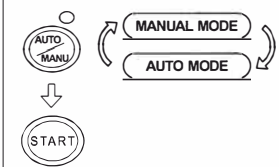
Green LED

SELECT Press more than 1 second
⇩ Buzzer sound
○ Green LED Flassing
⇩
START Feed a tape without folding the edge
⇩
START Feed a tape with folding the edge