

EZ-7000 Industrial Duty Tape Dispenser Instruction Manual



ASGTM
Products for Assembly

Read This Before Use

Thank you for buying our EZ-7000 tape dispenser.

EZ-7000 is a very compact, high powered unit which can cut and dispense many kinds of tape including non-adhesive products.

Please read this instruction manual carefully.

For your safety, please keep this manual for reference, retraining and trouble shooting.

Contents

Read This Before Use	2
Safety Instructions	3
Definition of Warning and Caution Symbols.	3-5
Identification of Parts.	6-7
Loading the Tape	8
Setting the Tape Length	9
Setting the Mode	10-13
Memory Function	13
Resetting the Total Count	14
Using Narrow Tape/Using Two Rolls at Once	14
Dealing with Curling Tape.	15
Replacing the Blade Unit	15
Maintenance	15-16
Error Messages.	16-17
Trouble Shooting.	18
Specifications	19

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 designated "Warning " and "Caution" describe possible injury or damage that may be suffered 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 Instruction Manual.

Definition of Warning and Caution Symbols

Warning

Indicates a potentially hazardous situation; which could result in death or serious injury.

Caution

Indicates that mishandling 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 prohibited action.



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

Warning



Do not operate the machine with wet hands. Do not plug in or unplug the cord 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.

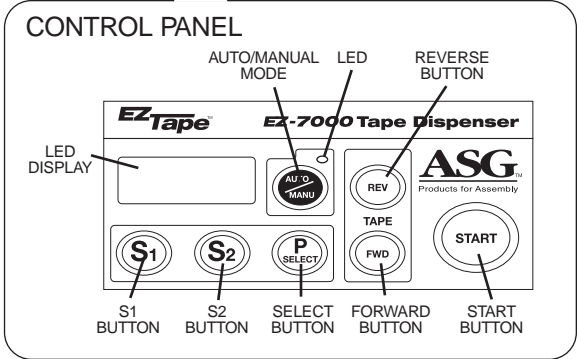
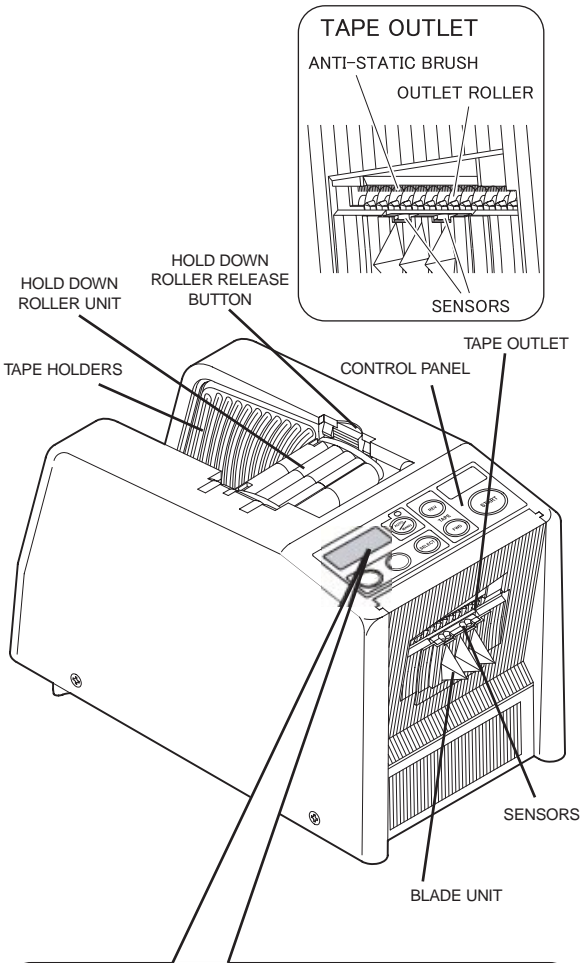


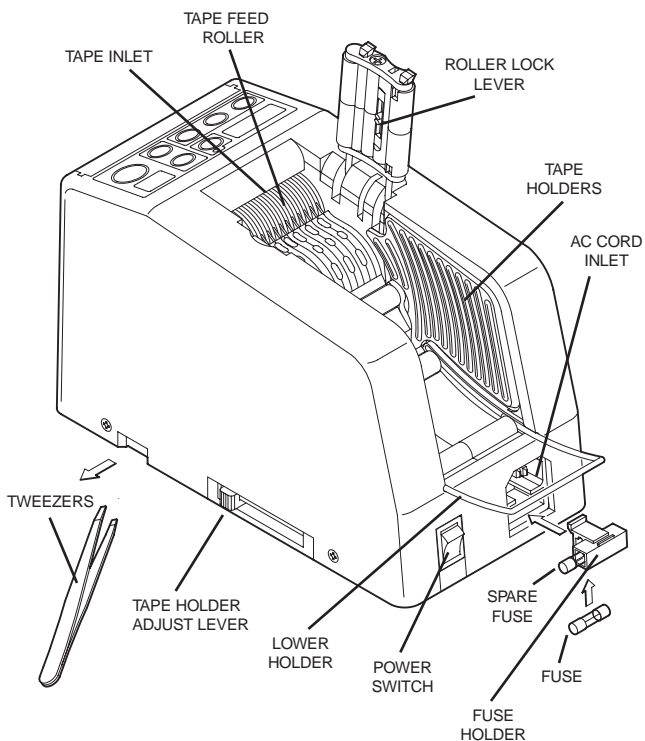
Do not use this machine for anything other than its specified applications. Use of the machine for any unintended applications can cause injury to the operator or failure of the machine.

Caution

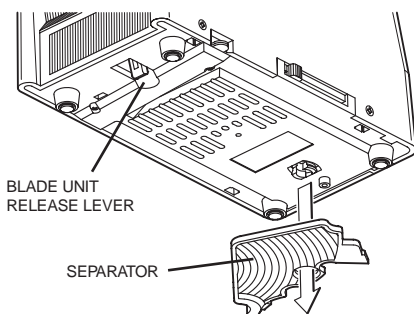
-  **Do not expose the machine to water or other liquids.** Do not install or use the machine where it may come into contact with water or other liquids. Exposure to water or other liquid can cause injury due to electric shock, or failure of the machine.
-  **Never modify or disassemble the machine.** This can cause injury or failure of the machine.
-  **Always unplug, or plug the machine in, by holding the plug.** Never pull on the cord. Pulling on the cord can result in an injury from electric shock.
-  **Never place foreign objects into the machine.** This can cause failure of the machine.
-  **An operator's presence is required whenever the machine is in operation.** Turn the machine off and unplug the cord when the operator is not present. Failure to observe this can result in injury.
-  **Do not cut or damage the power cord.** A cut or damaged cord can lead to electric shock, a short circuit or possible fire hazard.
-  **Make sure the cord is connected properly to the electrical outlet as well as the receptacle on the back of the machine.** A loose connection can result in high heat or fire.
-  **Do not use the machine in areas where moisture is present, high temperatures exist or a high content of dust or dirt is present.** This can result in failure of the machine.
-  **Always install and operate the machine on a flat, stable surface.** Dropping the machine can lead to failure of the machine or injury to the operator.
-  **Always remove the tape from the machine when you are finished with the operation.** Leaving the tape in the machine may lead to a buildup of adhesive on the parts, or cause the tape to curl.

Identification of Parts





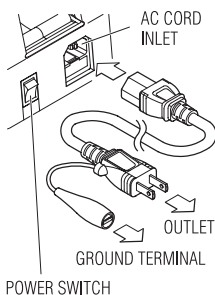
BOTTOM OF BODY



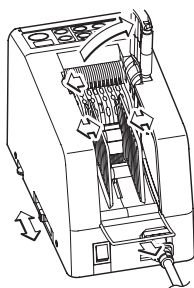
Loading the Tape

(see page 14 for tape less than 15 mm wide)

- Plug in the AC CORD to the AC CORD inlet.
- Make sure the POWER SWITCH is off then plug into a properly grounded AC outlet.
- Turn the POWER SWITCH on.
- When the POWER SWITCH is turned on the red LED DISPLAY will indicate the last length programmed.
- When the POWER SWITCH is turned on the mode will be set to Manual.
- Press the HOLD DOWN ROLLER RELEASE BUTTON.
- Place a roll of tape in the machine.



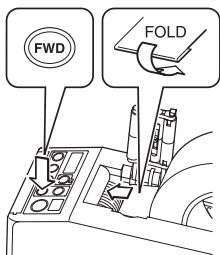
- Hold the tape by adjusting the TAPE HOLDERS.
- Adjust the TAPE HOLDERS to the proper width by sliding the TAPE HOLDER ADJUST LEVER to the front of the machine, to open, or to the rear of the machine, to close. The TAPE HOLDERS should lightly hold the roll in the center of the cavity in the machine. This is very important because it keeps the tape centered as it passes over the Sensor in front of the BLADE UNIT.
- Pull the LOWER HOLDER out to support a large roll of tape.



- Fold the edge of the tape over approximately 20 mm and insert into the TAPE INLET.

- Press the FWD BUTTON until the tape comes out of the TAPE OUTLET.

- If the buzzer sounds and the LED DISPLAY indicates an error press the REV BUTTON to remove the tape and start over.
- Pressing the REV BUTTON runs the motor in reverse just long enough to remove the tape from the blade.
- If the length of the tape is longer it may be necessary to press the REV BUTTON a second or third time to remove the tape from the machine.

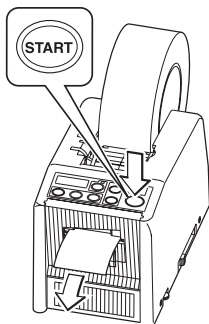


- When using tape with an aggressive adhesive pulling a little more tape off the roll will aid in positioning it into the TAPE INLET.
- "Tapping" the FWD BUTTON may also aid in positioning the tape properly in the TAPE INLET.

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

■ Press the START BUTTON.

- When you press the START BUTTON the machine will feed a piece of tape and cut it. (The tape length is set to 100 mm at the factory before the machine is shipped.)



- Remove that first piece and discard it.

■ The Machine is Now Ready for Use

! Always use Tweezers to remove the tape.

* See Page 14 for tape width less than 15mm or for loading two rolls of tape.

Setting the Tape Length

■ Press the SELECT BUTTON

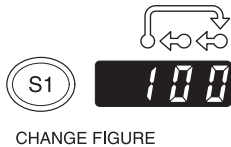


LENGTH DISPLAY

- When the machine is turned on it will default to the length display.
- The length will be displayed by up to three numbers in the red LED DISPLAY being lit. (Example 8, 88, or 888)
- If four numbers are lit press the SELECT BUTTON to change back to the length display.
- Any time you turn the unit off and turn it back on it will default the last length that was properly set.
- Set the desired length by using the S1 and S2 BUTTONS.
- The cut length is adjustable between 4 and 999 mm.
- If you attempt to set the cut length less than 4 mm it will default to 4 mm.
- 4 mm is the minimum length the machine is capable of cutting.
- The actual length may differ from the displayed length depending upon the type of tape and its conditions.

■ Press the S1 BUTTON

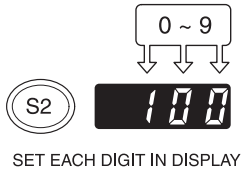
- When you press the S1 BUTTON, three digits will light and the right hand digit will flash. If S1 is pressed again within three seconds the middle digit will flash. If S1 is pressed again within three seconds the left digit will flash.



To change a digit while it is flashing press S2.

■ Press the S2 BUTTON

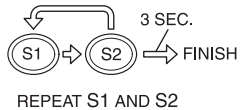
- When you press the S2 BUTTON while a digit is flashing that digit will increase from 0 to 9. If you continue to press S2 you will start over with that same digit.



- You can not change to the next digit until you press S1 again.

■ The LED DISPLAY stops flashing after three seconds.

- If you have not finished setting the length and pause for three seconds the LED DISPLAY will stop flashing.



The number shown on the display is the set length.

- If the actual cut length differs from the displayed length, it may be due to the type of tape and its condition. Set the LED DISPLAY to a longer length and retry.
 - When cutting shorter lengths of tape the length may not be consistent or the tape may jam.
- Try several test cuts to insure proper operation.

Setting the Mode

■ MANUAL MODE

- Press the START BUTTON once, the machine feeds one piece of tape to desired length and cuts it.
- To cut another piece, press the START BUTTON again. The machine will feed and cut a piece of tape each time the button is pressed.

■ AUTO MODE

- Press the START BUTTON once, the machine feeds one piece of tape to the desired length and cut it.
- When that piece of tape is removed the machine will feed and cut another piece.
- The machine will feed and cut a new piece of tape

each time a piece is removed from the machine.

■ P-Mode (Preset Mode)

- You can program the machine to alert you after a desired number of pieces of tape have been cut (up to 999 pieces).
- A buzzer will sound when the programmed total has been reached, and the machine will not automatically feed another piece.
- You must press the START BUTTON again to start the machine and restart the programmed count. The buzzer will sound both in AUTO or MANUAL MODE.

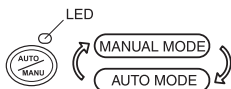
■ L-Mode (Loop Mode)

- When cutting non-adhesive material you can preset the number of pieces to be cut (up to 999 pieces).
- The machine will cut the specified number of pieces and stop.
- A buzzer will sound when the preset total has been reached, and machine will stop cutting.
- You must press the START BUTTON to start the machine again.

Changing between AUTO/MANUAL MODE

■ Press AUTO/MANUAL MODE BUTTON

- Each time you press the AUTO/MANUAL MODE BUTTON the mode will change between AUTO and MANUAL.



MANUAL MODE ● LIGHT OFF

AUTO MODE ◐ FLASHING

☀ LIGHT ON

- When you select MANUAL, the green LED above the button will not be lit.
- When you select AUTO, the green LED will flash until the START BUTTON is pressed. After the START BUTTON has been pressed and a piece of tape has been fed and cut, the green LED will remain lit.
- If the green LED remains flashing the SENSORS have not detected the tape. The START BUTTON will have to be pressed to dispense another piece of tape. This can occur if the tape is too narrow, or the adhesive is too light to allow the tape to stick in the TAPE OUTLET. If the tape will not stick, the machine can not be used in the AUTO MODE.

You will have to press the START BUTTON each time you want a piece of tape.

Using the Preset/Loop Mode

- Press and hold the SELECT BUTTON for three seconds.

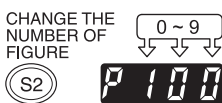


- The LED DISPLAY will change to show the letter "P" on the left side of the display followed by three numbers (P000).

The numbers indicate the number of pieces that have been preset.



- If you press the SELECT BUTTON for less than three seconds the LED DISPLAY will change between the length display and the total number pieces cut since the machine was turned on, or since a total was entered into the memory.



The total number display will have all four digits lit at the same time. (Example 0008, 0088, 0880 or 8888)

This display cannot be changed using the S1 or S2 BUTTONS.

To change back to the length display, press the SELECT BUTTON again.



- Press the S2 BUTTON.

- The LED DISPLAY will change to show the letter "L" on the left side of the display followed by three numbers (L000).

The numbers indicate the number of pieces that have been preset.

- Pressing the S2 BUTTON again will change the display back to show the "P" on the left side of the display. (P000).

The S2 BUTTON will change the display between the P-Mode and the L-Mode.

- Set the number of pieces to be cut by using the S1 and S2 BUTTON.

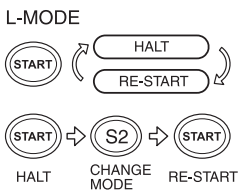
- The total is adjustable between 1 and 999.

The machine can not be set to P000 or L000.

- Press the S1 BUTTON.

When you press the S1 BUTTON, the right hand digit will flash. If S1 BUTTON is pressed again within

three seconds the middle digit will flash. If S1 BUTTON is pressed again within three seconds the left digit will flash. To change the digit while it is flashing press S2 BUTTON.



■ Press the S2 BUTTON

When you press the S2 BUTTON while a digit is flashing that digit will increase from 0 to 9. If you continue to press S2 BUTTON you will start over with that same digit.

You can not change to the next digit until you press S1 BUTTON again.

P-MODE



■ The LED DISPLAY stops flashing after three seconds.

- If you have not finished setting the number and pause for three seconds the display will stop flashing.

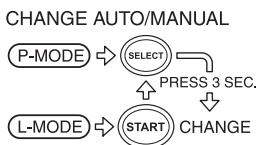
The number showing on the display will be the number to cut unless you have attempted to set 000.

If you attempt to set the total to 000 the digit you selected will continue to flash until you change it to something other than 0.

■ To stop the machine while it is running in L-Mode press the START BUTTON.

- To restart press the START BUTTON a second time.

■ To operate the machine in P-Mode or L-Mode you must have the "P" or "L" showing on the display.



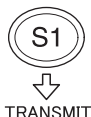
- The number programmed will remain when the unit is turned off and turned back on.

Memory Function

The machine memory will keep track of the number of pieces cut since it was turned on, up to 9999 pieces.

This number will be reset to 0000 when the machine is turned off and turned back on unless a number has been stored in memory.

- Press the SELECT BUTTON and release before three seconds pass. The number shown will be the number of pieces cut since the machine was turned on.



- Press the S1 BUTTON to store the total into the machine memory. The number will flash on and off three times and will now be stored. When the machine is turned on the count will start from that number. To keep a running count up to 9999 the new total must be stored before the machine is turned off. If the new total is not stored the total will default to the last number entered.

Resetting the Total Count

- Press the SELECT BUTTON and the number shown will be the number of pieces cut.
- Press the S2 BUTTON for three seconds to clear the memory.

INDICATE NUMBER OF PICES CUT



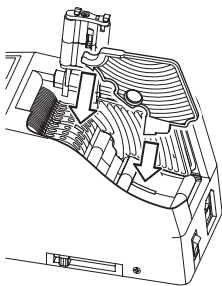
PRESS FOR 3 SEC.



Using Narrow Tape/ Using Two Rolls at Once

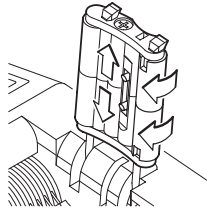
If the tape is less than 15 mm wide or if you want to dispense two rolls at once use the SEPARATOR.

- Remove the SEPARATOR from the bottom of the body.
- Open the HOLD DOWN ROLLER UNIT.
- Open the TAPE HOLDERS.
- Insert the SEPARATOR into the body by inserting the large tab into the slot in the bottom of the cavity.
- Place one roll of the tape on either side of the SEPARATOR and load the tape.
- Adjust the TAPE HOLDERS to hold the tape without pushing the SEPARATOR out of position.
- The roll will be held between the SEPARATOR and the TAPE HOLDERS, not in the middle of the cavity. This positioning will allow the tape to cover one or the other of the SENSORS. If the tape is narrow and in between the SENSORS the AUTO function will not work.
- To load a second roll, place it between the SEPARATOR and the other TAPE HOLDER.
- When dispensing two rolls of tape at the same time both will be fed to the same length. Remove the first piece. When the second piece is removed, two more pieces will be dispensed.



Dealing with Curling Tape

- Press the HOLD DOWN ROLLER RELEASE BUTTON to open the HOLD DOWN ROLLER UNIT.
- Spread the ROLLER LOCK LEVER so that rollers can not turn.
- Close the HOLD DOWN ROLLER UNIT.
- With the rollers locked the tension may cause the length to vary.
Cut several sample pieces and adjust the length if needed.



Replacing the Blade Unit

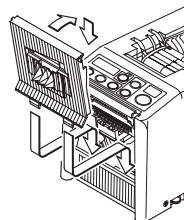
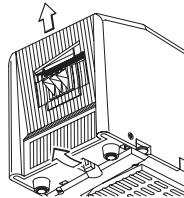
The blade itself can not be replaced. The whole BLADE UNIT must be replaced.

- Turn the POWER SWITCH off.
 - Remove the BLADE UNIT by releasing the BLADE UNIT RELEASE LEVER.
 - Install the new Blade Unit onto the body.
- ❗ Push down on the housing firmly until it locks in with an audible click.

To be sure that the lower blade is properly positioned, turn the BLADE UNIT over and look at the bottom edge of the lower blade. It should be flush with the bottom edge of the opening.

Maintenance

- **Cleaning the BLADE UNIT**
When cutting tapes with heavy adhesive the residue can accumulate on the blade. 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.
- Use alcohol on a clean dry cloth, or swab to remove the residue.
- Replace the BLADE UNIT.

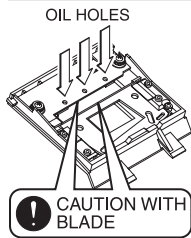


■ Lubricating the Blade

Lubricate the Blade to prevent tape residue from the sticking to the blade.

- Turn the POWER SWITCH off.
- Remove the BLADE UNIT from the body.
- Locate the three oil holes on the back side of the top blade.
- Squeeze one drop of blade oil into each hole.
- Do not over lubricate.
- Wipe excess oil away with a cotton cloth.
- Replace the BLADE UNIT onto the body.
- Turn the POWER SWITCH on.

Make several test cuts to be sure the tape does not fall off the TAPE OUTLET.

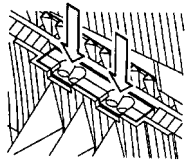


■ Cleaning the Sensors

There are two SENSORS below the TAPE OUTLET. If the openings are covered with tape, residue or debris, the SENSORS will not detect the presence of the tape.


- Always clean around the SENSORS.
- With the BLADE UNIT removed carefully clean the openings to prevent damage to the SENSORS.

USE CAUTION IN HANDLING SENSORS



■ Cleaning the Body

Clean the body with a damp cloth using mild detergent. Never use alcohol or solvents on plastic parts.

-  Whenever you clean or replace the BLADE UNIT do not touch the cutting edge of the blade.

Error Messages

The buzzer will sound and a message will flash on the LED DISPLAY to indicate an error.

■ E-1 Tape Jam

Indicates the tape is jammed.

- Press the REV BUTTON so that the tape can be pulled back and removed.
- Check the TAPE OUTLET for pieces of tape or glue residue and remove with TWEEZERS.
- Press the START BUTTON to clear the error message.
- Load the tape again as prescribed.



■ E-2 Blade out of Position

Indicates the blade is not installed properly or has stopped due to the thickness or hardness of the tape.

- Turn the POWER SWITCH off.
- Remove the BLADE UNIT by releasing the BLADE UNIT RELEASE LEVER and lifting the assembly out of the body.
- Turn the POWER SWITCH on.
- Press the FWD BUTTON and feed the tape once, cut the tape between the TAPE OUTLET and the location of the BLADE UNIT with scissors.
- Press the REV BUTTON to remove the tape.
- Turn the POWER SWITCH off.
- Clean the BLADE UNIT and replace it.
- Turn the POWER SWITCH on.
- Press the START BUTTON to clear the error message.

■ E-3 Motor Stopped

Indicates the motor has stopped due to an overload.

- Press the REV BUTTON to remove the tape.
- Turn the POWER SWITCH off.
- Check the BLADE UNIT and TAPE OUTLET carefully.
- Clear away the tape waste or glue residue with the TWEEZERS.
 - Turn the POWER SWITCH on.
 - Press the START BUTTON to clear the error message.



When correcting an error, never touch the BLADE with the POWER SWITCH on.

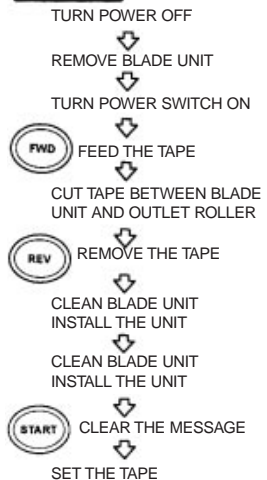


If the machine does not work normally after correcting an error, turn off the POWER SWITCH and stop using the machine.

Do not use tape generating static electricity over 1000V. It may cause failure of the machine.

Before returning the machine for repairs, check the following items.

E-2



E-3



Troubleshooting

- The POWER SWITCH is on but the machine does not run.
 - The AC cord is loose.
Be sure the cord is plugged into the outlet firmly.
 - The FUSE is blown.
Replace the FUSE.
If the FUSE is blown again after replacing it, stop using the machine immediately.
 - After removing a piece of tape, the next piece does not feed when in the AUTO mode.
 - The mode is set to MANUAL.
Set the mode to AUTO.
 - There is debris covering the SENSORS.
Remove the debris.
 - The tape does not go over the SENSORS.
Use SEPARATOR for narrow tape less than 15 mm.
 - There is bright light very close to the SENSORS.
Do not shine bright light at or near the SENSORS.
 - The tape has extremely low reflectance
Some types of tape may not be used in AUTO mode.
 - The BLADE does not move smoothly.
 - The BLADE UNIT is not in the proper position.
Check the BLADE UNIT and push down on the housing firmly until it locks in with an audible click.
 - The length of the tape is different from the setting length.
 - Tape has aggressive adhesive.
Correct the setting after cutting several test pieces.
 - Tape is very elastic
 - Tape curls excessively.
 - The machine is not grounded.
Check ground on cord.
 - The ROLLER LOCK is disengaged.
Engage the ROLLER LOCK.
 - ANTI-STATIC BRUSH is worn out.
Replace the ANTI-STATIC BRUSH.
- If the machine still does not work properly, stop using the machine immediately and contact ASG for repair authorization.***
- Spare parts are available from ASG

Specifications

Power Requirement: 120V 50Hz/60Hz (220V- 240V units available)

Input Voltage Range: $\pm 5\%$

Wattage: 25W

Dimensions: 115(w) x 140(h) x 215 (d) mm

Weight: 2.8 kg.

Body Material: Anti-Static ABS

Tape Length: 4-999 mm

Tape Width: 6-50mm

Feeding Speed: 200mm/sec. (when cutting craft tape)

Max. Outside dia, of Roll: 300 mm

Accessories: Power Cord

2A Fuse (built-in inlet)

Separator

Tweezers

Blade Oil

Note: The specifications are subject to change without prior notice.

The length of the tape may differ from the set length depending upon the type of tape or its condition.

Some types of tape available with the machine may not be cut depending upon conditions.

Products & Services offered by ASG:

- Electric Torque Drivers
- Manual Torque Drivers
- Video Inspection Equipment



Torque Controlled Drivers

- Process Monitors/Qualifiers
- Torque Testers
- Assembly Robots



Inspection & Testing

- Auto Screw Feed Systems
- Screw Feeders
- Automatic Tape Dispensers
- Lead Trimmers



Production Aides

- Assembly Automation Components
- Repairs
- Calibration



Automation Products

ASG™

Products for Assembly

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