

ZCM2500 - Non-Adhesive Cutter

START International

www.startinternational.com

info@startinternational.com

Thank you very much for purchasing electronic tape dispenser 2500.

This model is version up type of our electronic tape dispenser 1500.

This is designed for cutting **ONLY NON-ADHESIVE MATERIALS**. Not useable for any adhesive materials. It capable to feed and cut many kinds of non-adhesive materials like, tubing, wiring, and also non-adhesive tapes up to 50mm width.

And also this unit has anti-static function. Therefore, it's able to feed and cut many non-adhesive materials, which cause statistic electricity.

***** Basic function is same as our 1100. So please read enclose manual of 1100 for the right operation *****

● How to set non-adhesive materials

1) Remove tape reel.

2) Set a roll of non-adhesive material to the reel and set to 2500.

** Standard 3 inch reel. Other size of reels are optional. Please ask to your dealer.

** Please set a roll of material at the center of the reel. Otherwise, it may cause jamming.

3) Put the edge of material between upper and lower roller and feed slowly by ↓ (Feed) button.

4) In accordance with tape width, please use enclosed magnet tape guide. It helps smooth feeding.

■ How to set magnet tape guide

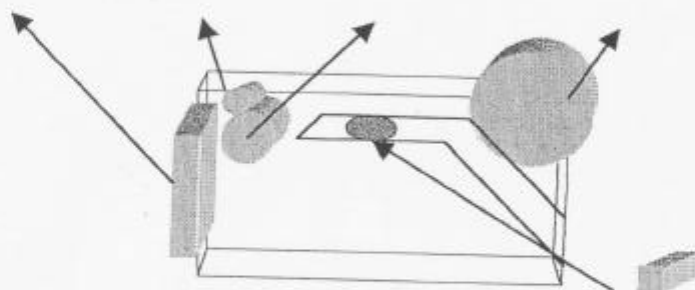
Please stick magnet tape guide onto flat part behind rollers. Then slide and adjust metal guide depended on tape width.

Auto-Feed cutter unit
(MA-1100)

Upper Roller

Lower Roller

Reel



2500 body

Magnet guide

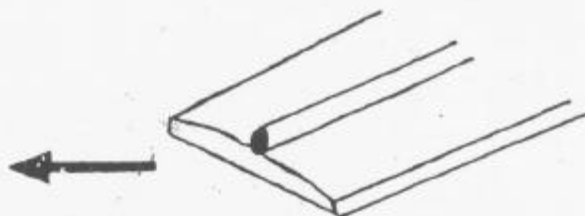
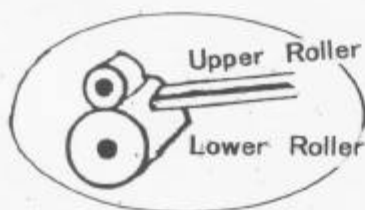
== Caution ==

- There are many kinds of non-adhesive materials. Depended on characteristic or thickness, this unit is not usable. If you find any difficult cutting material, please consult to us or your dealer.
- Low-adhesive can't be cut.

set non-adhesive materials

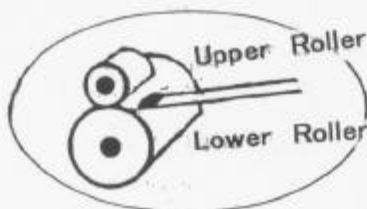
1) Vinyl lead wire

- Make wire side to upper.
- Please set wire into the center gap. Then able to feed and cut smoothly.



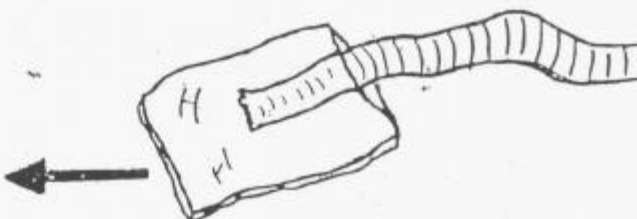
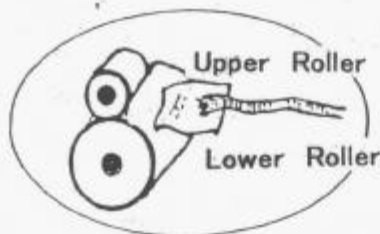
2) Tubing

- For smooth inserting, Cut the edge diagonally and make it thinner.



3) String, Thicker material

- For smooth inserting, put tape to the top of material and make it wider.



ZCM1100 ZCM2200

ELECTRONIC TAPE DISPENSER (Equipped with Safety Guard Mechanism)



OPERATION MANUAL

INTRODUCTION

Thank you for purchasing the electronic tape dispenser.
Read this operation manual carefully before use to ensure proper operation.
Make sure to keep this manual on hand for reference when it is necessary.

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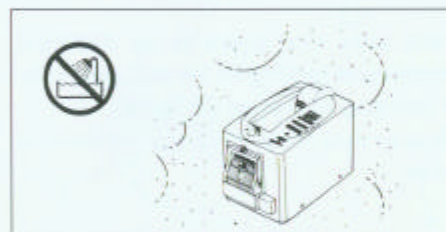
SAFETY PRECAUTIONS (Items to be Observed)

WARNING In some cases, serious injury may occur. Be sure to observe this warning.

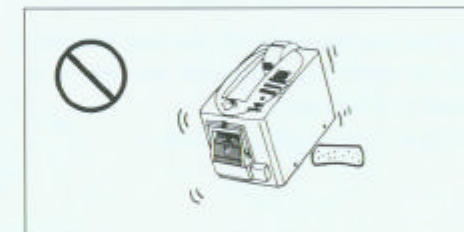


Do not insert your finger into the tape outlet.
You may be injured by touching the cutter blade.

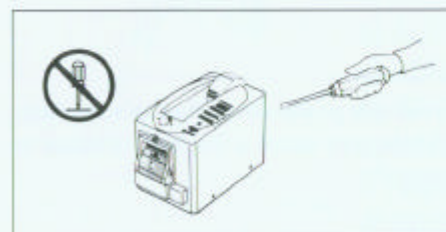
CAUTIONS You may suffer an injury or damage in some cases. Be sure to follow these precautions.



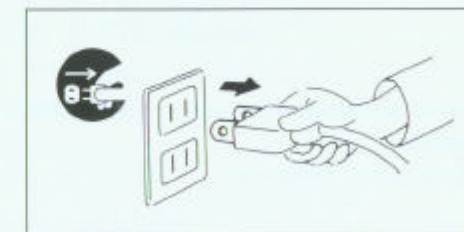
Do not use the tape dispenser in a humid or dusty place.
This may cause an electric shock or failure.



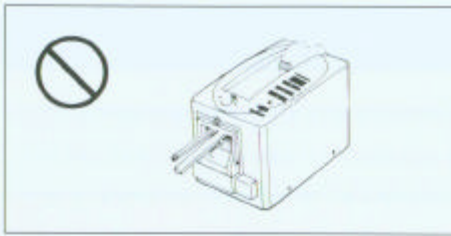
Do not use the tape dispenser in an unsteady, shaky or declined place.
This may cause an injury by dropping, etc.



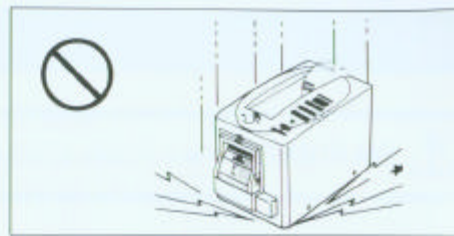
Do not disassemble, repair or modify the tape dispenser.
This may cause abnormalities such as a failure or fire.



When replacing parts, pull the plug out from the outlet.
If a key is pressed erroneously with the plug connected, the tape dispenser may operate in a dangerous way.



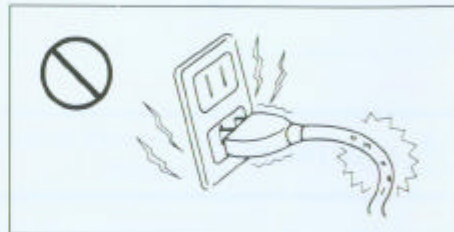
Do not insert a bar, etc. into the tape outlet.
Doing so may cause a cutter failure.



Do not cause heavy shocks to the tape dispenser.
Doing so may cause a failure or breakage.



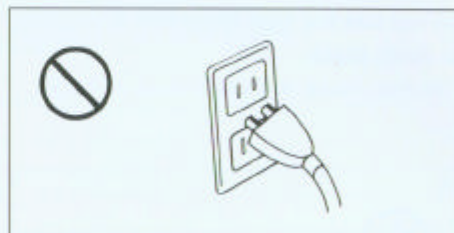
Do not use industrial oil, thinner, benzine, etc. to clean the dispenser because it is made of ABS resin.
Doing so may cause a breakage.



Make sure that there is no damage, loosening or twisting on the plug and cable, or clogging of dust on the outlet.
Doing so may cause a fire, electric shock or failure.



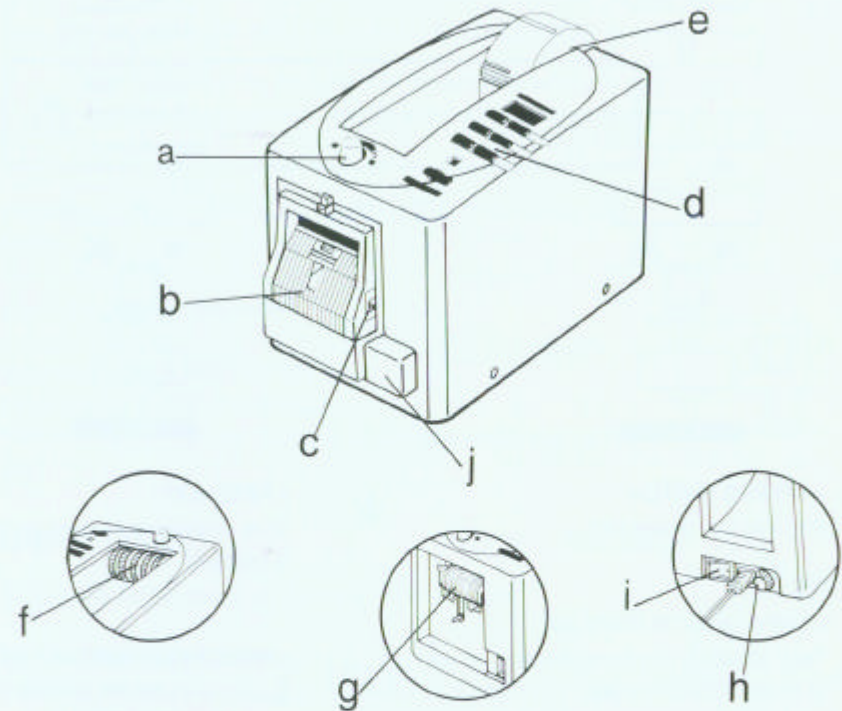
Do not use the tape dispenser near volatile liquids.
Doing so may cause a fire.



Do not use power other than as specified.
Doing so may cause a fire, electric shock or injury.

DESCRIPTION OF PARTS AND FUNCTIONS

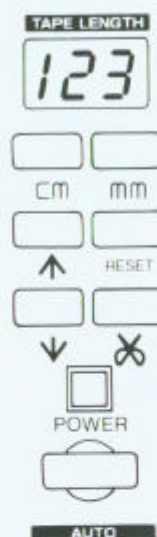
DESCRIPTION OF PARTS



- a) PRESSURE KNOB
- b) AUTO FEED CUTTER UNIT
- c) SENSOR SWITCH
- d) OPERATION PANEL
- e) REEL
- f) FEED ROLLER
- g) SEPARATING ROLLER
- h) FUSE
- i) POWER SWITCH
- j) CONNECTOR

DESCRIPTION OF OPERATION PANEL

MS-1100



MS-2200



OFF ON



• POWER SWITCH

Press to turn power ON.

TAPE LENGTH



• TAPE LENGTH DISPLAY

Tape length is displayed by up to three digits (999 mm).

CM MM

• SIZE KEY

Press MM to set the tape length in mm by one digit (0 to 9 mm). Press CM to set the tape length in cm by two digits (30 mm to 990 mm).



• REVERSE KEY

FEED ROLLER reverses. Use this key when changing the tape.



POWER

• INDICATOR LAMP

Lamp goes on when the power is turned ON.



• FEED KEY

Tape dispenses as long as key is pressed.

RESET

• RESET KEY (M/RESET KEY)

Err --- can be released by pressing the RESET KEY.



• CUT KEY

Press CUT KEY to cut the tape.



• AUTO KEY

Press AUTO KEY once to feed the tape to the set length indicated on the digital display and to cut automatically.



• PRESSURE KNOB

Tape pushing pressure can be adjusted according to the tape.

OPERATION

BEFORE USE

1. Turn the POWER SWITCH OFF.
2. Turn OFF the SENSOR SWITCH of AUTO FEED CUTTER.



It is dangerous for the power to remain ON because the tape dispenser may operate when a key is pressed erroneously.

3. Insert the CONNECTOR of AUTO FEED CUTTER into the main frame.
4. Insert the plug into the outlet.
5. Turn the POWER SWITCH ON.
Initial display of "30" is displayed.
This means that "30 mm" is the minimum tape length that can be set.



TAPE SETTING

1. Detach the REEL (shaft) by pulling it out to the rear.
2. Engage tape onto the REEL, and set it on the main frame.
* Set tape so that it positions at the center of the REEL. If tape is set in a dislocated state, it may clog.
3. Apply the top of the tape to the center of FEED ROLLER (silver roller).
* When wide tape is used, bend the top corner of the tape so that it feeds smoothly. (Fig. 1)
4. Push on the applied tape lightly with your finger and press the FEED KEY little by little to feed the tape. (Fig. 2)
* Tape is fed only while the FEED KEY is pressed.
• If tape does not come out, see page 16.



Fig. 1

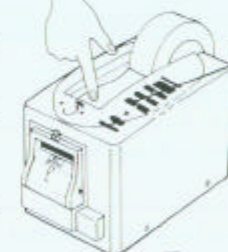


Fig. 2

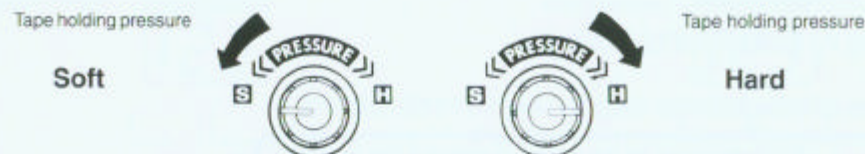


Fig. 3

5. Feed 3 cm to 4 cm of tape out from the tape outlet of AUTO FEED CUTTER UNIT.
6. Press the CUT KEY .
Remove the cut tape. (Fig. 3)

ADJUSTING THE PRESSURE KNOB

PRESSURE KNOB adjusts the pressure of ROLLER that holds tape so that tape can be fed properly.



1. Adjust the tape holding pressure according to the tape material and type.

| Tape type | PRESSURE KNOB adjustment level |
|--|--------------------------------|
| Cellophane tape, Kraft adhesive tape, Cloth adhesive tape, PP tape | |
| Double-sided adhesive tape with separating paper (thickness 0.5 mm or less), Filament tape, Crape tape | |

2. Press the FEED KEY \blacktriangledown to feed the tape out and check the pressure.
3. In the following cases, PRESSURE KNOB adjustment may not match with the tape material and type. Adjust the PRESSURE KNOB according to the situation.

| Situation | Holding pressure | PRESSURE KNOB adjustment |
|--|------------------|---|
| Tape does not come out but clogs. | Too soft | Apply more pressure by turning towards (H). |
| | Too hard | Apply less pressure by turning towards (S). |
| Tape curls when it comes out. | Too soft | Apply more pressure by turning towards (H). |
| Tape hangs when it comes out. | Too hard | Apply less pressure by turning towards (S). |
| There are deep indentations on the tape. | Too hard | Apply less pressure by turning towards (S). |

* It is necessary to set the holding pressure at some level to feed the tape properly. Certain types of tape may become indented even after adjusting the PRESSURE KNOB.

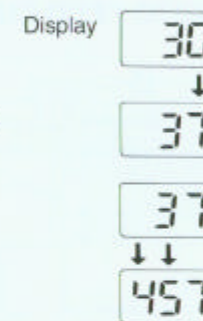
SETTING THE TAPE LENGTH

Set the measurements to cut the tape at a set length.

1. Press the SIZE KEYS $\square\text{m}$ and mm and set the required length.
 - By pressing mm , the lower 1 digit for mm can be changed from 0 to 9 mm.
 - By pressing $\square\text{m}$, the upper 2 digits for cm can be changed from 3 cm to 99 cm.
 - Pressing the SIZE KEY causes the numbers to change rapidly.
- * It is impossible to set the length lower than the initial display of 30 mm.
 * By pressing mm KEY while pressing $\square\text{m}$ KEY, the initial display of 30 mm returns. When the 30 mm display returns, release your finger first from mm key. (If $\square\text{m}$ KEY is released first, the number for mm KEY is changed.)

[Example] Set 457 mm (45.7 cm).

- ① Press mm KEY and change the lower digit to [7].
- ② Keep pressing $\square\text{m}$ KEY for quick increments, and change the upper digits to [45].



CHANGING THE TAPE LENGTH

1. Turn OFF the SENSOR SWITCH of AUTO FEED CUTTER.
2. Press mm KEY while pressing $\square\text{m}$ KEY to return the display to initial $\square\text{m}$.
3. Press SIZE KEYS $\square\text{m}$ and mm , and set the required length. (The value remains set even if the power is turned OFF.)

USING BY MANUAL FEED (KEY OPERATION)

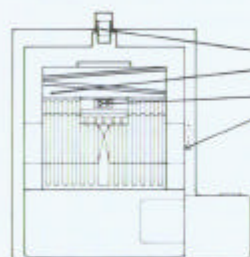
1. Turn OFF the SENSOR SWITCH of AUTO FEED CUTTER UNIT.
2. Press the AUTO KEY.
3. The tape comes out at the set length and it is cut.
 - * To feed various lengths of tape other than the set length, use the FEED KEY \blacktriangledown and the CUT KEY \times .

USING BY AUTO FEED

Auto feed can be done by using the SENSOR.

1. Turn ON the SENSOR SWITCH of AUTO FEED CUTTER UNIT.
2. The tape comes out at the set length and it is cut.
3. Remove the tape at the outlet.
4. The next tape comes out and it is cut.

AUTO FEED CUTTER UNIT FUNCTION



■ The AUTO FEED CUTTER UNIT consists of a combined CUTTER (blade) and a SENSOR.

■ The SENSOR has a function that detects if there is tape at the tape outlet. (When the SWITCH is ON.)

■ When no tape is detected, the next tape feed and cut is instructed.

* If transparent tape displaces from the SENSOR, it cannot be detected and the tape feed may not stop.

* Under certain light sources, the SENSOR may malfunction if the tape dispenser is used in a bright place.

Levels of brightness that disturbs the SENSOR function

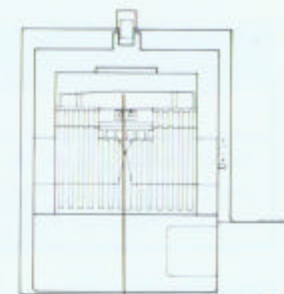
- When the SENSOR faces a bright window.
- Incandescent light at 800 luxes or above (about 45 cm under 60 W light)
- Fluorescent light at 3000 luxes or above (about 30 cm under 40 W light)



SAFETY GUARD MECHANISM

The SAFETY GUARD is a unit that stops the cutter operation if things other than tape enter the AUTO FEED CUTTER.

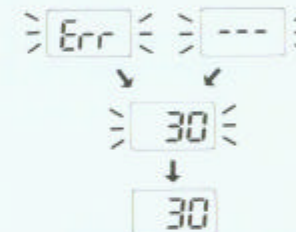
- * If something other than tape clogs the tape outlet, the SAFETY GUARD stops the cutter operation and Err blinks on the display.
- * --- blinks on the display if the AUTO FEED CUTTER is set to the main frame and the SAFETY GUARD is raised, if the AUTO KEY or FEED KEY is pressed, or if the SENSOR SWITCH is turned ON.



SAFETY GUARD is in raised state

How to release

1. Make sure that the Err --- display blinks, and press the RESET KEY.
2. If the set value blinks, press the RESET KEY again. Error is released and normal operation becomes possible.



CHANGING THE TAPE



CAUTION

When replacing parts, be sure to turn OFF the POWER SWITCH and the SENSOR SWITCH, and pull the plug out from the outlet. It is dangerous to keep the dispenser plugged in because the tape dispenser may operate if a key is pressed erroneously.

1. Turn OFF the SENSOR SWITCH of AUTO FEED CUTTER UNIT.
2. Reverse the tape press the REVERSE KEY little by little.
3. Change the tape.



REPLACING THE AUTO FEED CUTTER UNIT



CAUTION

When replacing parts, be sure to turn OFF the POWER SWITCH and the SENSOR SWITCH, and pull the plug out from the outlet. It is dangerous to keep the dispenser plugged in because the tape dispenser may operate if a key is pressed erroneously.

Detaching method

1. Pull the CONNECTOR straight out. (Fig. 1)
2. To detach the unit, press the KNOB on the AUTO FEED CUTTER UNIT and pull the Unit forward. (Fig. 2)

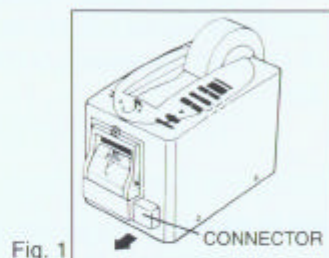


Fig. 1



Fig. 2

Setting method

1. Turn OFF the SENSOR SWITCH.
2. Make sure that the cutter LOWER BLADE is down. If the BLADE is up, lower it using a screwdriver, etc. (Fig. 3)
3. Adjust the bottom of the AUTO FEED CUTTER UNIT to the main frame, and push in the upper part.
4. Insert the CONNECTOR.

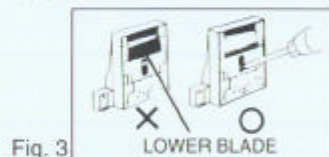


Fig. 3

HOW TO OPERATE

2200

* This page is to explain the peculiar operating way of 2200.

REGISTRATION IN 3 KINDS OF LENGTHS

To cut the lengths in 3 kinds, set the dimensions.

* The memory to register the length is displayed in the following orders.

| | Initial Display | Setting Value |
|--------------------|-----------------|--|
| MEMORY 1 | 30 | Set to 30 — 999 mm |
| MEMORY 2 | 999 | Set to 30 — 998 mm (In the unused case, set to 999 mm) |
| MEMORY 3 | 999 | Set to 30 — 998 mm (In the unused case, set to 999 mm) |
| Change-over Number | 0 | Set to 0 or 5 Change-over Number 0 : Manual Change-over Mode 5 : Auto Change-over Mode |

1. Turn OFF the SENSOR SWITCH of AUTO FEED CUTTER UNIT.
If the CUTTER works while setting the length, it will be dangerous.

2. Keep pressing MEMORY/RESET KEY M/RESET till starting the blinks of display.

M/RESET

* While blinking the display, it comes to Memory Register Mode.

3. Press SIZE KEY and set the length to register to Memory 1.

(Example) MEMORY 1. 100mm

* As to the using way of SIZE KEY refer to the page 9 "SETTING OF TAPE LENGTH".

4. Press MEMORY/RESET KEY M/RESET .
It displays "999". 999 is the initial value of the next "MEMORY 2".

M/RESET

5. Press SIZE KEY and set the length to register to memory 2.

(Example) MEMORY 2. 200mm

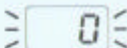
6. Press MEMORY/RESET KEY M/RESET .
it displays "999". 999 is the initial value of the next "MEMORY 3".

M/RESET


7. Press SIZE KEY and set the length to register to Memory 3.

(Example) MEMORY 3. 300mm

8. Press MEMORY/RESET KEY M/RESET .
it displays the change-over number "0".

W/RESET 

9. When using with the auto change-over mode,
press mm KEY. The change-over number comes to "5".


mm

10. Keep pressing MEMORY/RESET KEY M/RESET .
till stopping the blinks of display. It displays Memory 1
and stops the blinks.

W/RESET 


11. Turn ON the SENSOR SWITCH of AUTO FEED CUTTER UNIT,
or press AUTO KEY and feed the tape.
At the beginning, the tape in the length of Memory 1 comes out.
Then, the length of Memory 2, the length of Memory 3, feed in
order, and repeat them.

* When the length is changed after memorizing once, the initial value of
memory "999" is not displayed, but the length previously memorized.

MODIFICATION OF THE REGISTERED LENGTH

* WHEN STARTING ALL OVER AGAIN

After turning OFF once the power of MAIN FRAME,
while keeping press MEMORY/RESET KEY M/RESET ,
turn ON the power.

OFF ON

+
M/RESET

* WHEN MODIFYING A PART.

1. Keep pressing MEMORY/RESET KEY M/RESET .
till starting to blink the display.

(Example) If the memory 2 is
changed to 500mm

W/RESET 

2. Press MEMORY/RESET KEY M/RESET .
once each, and make to display the memory
to modify.

W/RESET 

3. Modify the setting with SIZE KEY.


cm mm

4. Keep pressing MEMORY/RESET KEY M/RESET .
till stopping the blinks of display.
Memory 1 is displayed and stopped the blinks.



USING THE MEMORY WITH AUTO CHANGE-OVER

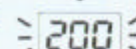
1. Register the length referring the way of "Registration in 3 Kinds of
Lengths" on page 12.

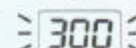

mm

2. Set the change-over number to "5".

(Example) MEMORY 1.
100mm 

3. The lengths in order from Memory 1 ~ Memory 3 come out
every feeding of each tape.

(Example) MEMORY 2.
200mm 

(Example) MEMORY 3.
300mm 

USING THE MEMORY WITH MANUAL CHANGE-OVER




1. Register the length referring the way of
"Registration in 3 Kinds of Lengths"
on page 12.

2. Set the change-over number to "0".

3. After finishing the register (in the state of
not blinking the display), the setting length
of Memory 1, memory 2, Memory 3, are
displayed every once by pressing
MEMORY/RESET KEY M/RESET .
So, make the display after selecting
the lengths desired.

4. The tape in the length displayed now
is always come out.
(Example) In the right case, if Memory 2
is displayed, the tape in 200mm
is always come out.

(Example)
Select the display.

↓
MEMORY 1 
↓
MEMORY 2 
↓
MEMORY 3 

5. If some other length which was set in the
other memory, is desirable to display,
change-over by pressing MEMORY/RESET KEY M/RESET .

REMARKS 1. After turning OFF the power of the MAIN FRAME, while keeping
press MEMORY/RESET KEY "M/RESET". if the power is turned
ON, the setting length returns back to the initial value.

2. The setting length remains by the back-up function even after
turning off the power.

3. In case of using with 2 kinds of lengths, adjust Memory 3 to "999".

TROUBLE-SHOOTING

When problems occur, check the following points before sending out for repair.



CAUTION

In case an abnormality occurs, do not repair it by yourself. You may be injured if the machine operates abnormally.

| Trouble | Cause | Measure |
|---|--|---|
| Tape does not come out or tape is clogging. | Check if the CUTTER (BLADE) is set properly. (Has blade been replaced?) | Detach the AUTO FEED CUTTER UNIT and set it properly. See pages 12 and 20. |
| | Check if the tape is clogging in the AUTO FEED CUTTER UNIT. | Detach the AUTO FEED CUTTER UNIT and check it. •How to take out the clogged tape See page 19. |
| | The tape interferes with the upper part of outlet. (Holding pressure is insufficient.) | Turn the PRESSURE KNOB to the (H) direction to strengthen the pressure. Or, replace the SEPARATING ROLLER because it is worn. |
| | The tape interferes with the lower part of outlet. (Holding pressure is too hard.) | Turn the PRESSURE KNOB to the (S) direction to soften the pressure. |
| | The tape is wound together with the SEPARATING ROLLER. | Turn the PRESSURE KNOB to the (S) direction to soften the pressure. |
| | The pressure sensitive adhesive of tape is a silicone type. | The tape cannot be used. |
| | Was the tape set and left for a long time without being used? The tape may be sticking. | When using by Auto Feed, feed the tape a little first using the FEED KEY ∇ , then use the tape dispenser. |
| | Is strong force required to separate the tape from the REEL? | Tape that cannot easily be separated from the REEL may not be used. |
| Cutter does not cut well. | Check if the adhesive sticks to the CUTTER (BLADE). | Remove the adhesive by wiping the CUTTER with remover, alcohol, etc. |
| | Is tape cutting edge uneven? | The CUTTER (BLADE) is worn, so replace it. See pages 12 and 20. |
| | Is the CUTTER (BLADE) replaced properly? | |
| | Check if the CUTTER (BLADE) is set properly? (Has blade been replaced?) | Detach the AUTO FEED CUTTER UNIT and set it properly. See pages 12 and 20. |
| | Check if the screw of cutter spring (plate) at the back of the AUTO FEED CUTTER UNIT has loosened. | |

| Trouble | Cause | Measure |
|--|--|--|
| The tape curls. | The tape holding pressure is insufficient. | Turn the PRESSURE KNOB to (H) direction to harden the pressure. Or, replace the SEPARATING ROLLER because it is worn. |
| | Check if static electricity is generated from the tape. | Connect the ground. |
| | Polyimide tape | Consult the nearest sales agent. |
| The tape cannot be cut at the set length. | Double-sided adhesive tape (The tape length becomes longer than the set length.) | This can be corrected by using the optional "Tape Holding Guide". |
| | Paper tape (The tape length becomes longer than the set length.) | |
| | Tape's adhesive strength is weak. | |
| | Tape elongates or shrinks. (The tape length becomes shorter than the set length.) | Tapes that elongate or shrink and tapes with weak adhesive strength cannot be fed at a constant length. These tapes cannot be cut correctly. |
| Auto Feed does not operate. (Key operation can be done.) | Check if the main frame power is turned ON. | Check the plug and POWER SWITCH. |
| | Check if the plug of the AUTO FEED CUTTER UNIT is inserted. | Insert the plug properly. |
| | Check if the Switch of the AUTO FEED CUTTER UNIT ON. | Turn the SENSOR SWITCH ON. |
| | Check if the SENSOR is dirty. | Remove dirt with a cotton swab, tooth brush, etc. |
| | Auto Feed does not operate even after everything is checked. | Failure may have occurred. Replace the AUTO FEED CUTTER UNIT. |
| | The tape cannot engage onto the reel properly and moves. | Adjust the REEL diameter by winding tape onto the REEL, etc. When you wish to have a special order REEL, consult the nearest sales agent. |
| The AUTO FEED CUTTER UNIT detaches. | Check if the screw of the cutter spring (plate) at the back of the AUTO FEED CUTTER UNIT has loosened. | Detach the AUTO FEED CUTTER UNIT and check it. See pages 12 and 20. |

| Trouble | Cause | Measure |
|---|--|--|
| Auto Feed does not stop and tape keeps coming out. ↓ Turn the Switch OFF to stop. | Does the tape pass the center of the SENSOR? | Set the tape so that it passes over the center of the SENSOR. This can be corrected by using the optional "Tape Holding Guide". |
| | Is there a strong light source such as lighting equipment near around? | Keep away from the strong light source, or set the SENSOR so that it does not face the light source. See page 10. |
| | Transparent tape | If the tape is highly transparent, the SENSOR may not detect the tape. |
| | Black tape | Consult the nearest sales agent. |
| | Tape that curls upward (such as polyimide) | Consult the nearest sales agent. |
| | Auto Feed does not stop regardless of tape type. | Because SENSOR failure may have occurred, replace the AUTO FEED CUTTER UNIT. |
| PRESSURE KNOB cannot turn. | Check if the PRESSURE KNOB is turned fully to either (H) or (S) direction. | Turn the knob by lifting it up. |
| The machine does not operate no matter what key is pressed. | Does the power of main frame turn ON? | Check the plug and POWER SWITCH. |
| | Check if the FUSE is blown. | Replace the FUSE. Check the cause of the blown FUSE and take appropriate measures. See page 21. |
| Err is displayed. | Check if the tape is clogging. | Remove the tape and press the RESET KEY twice. |
| | Err occurs soon after operation. | The operated part has failed. Send out for repairs. |
| | Is the tape dispenser used at a place where the temperature is high? | Because the control board is weak to the heat, it may show abnormality by high temperature. |
| | Err has occurred suddenly after the tape dispenser has been used for some time. | The control board has failed. Replacing or repairing the control board will cost more than other repairs. |
| | Check if something other than tape is clogging AUTO FEED CUTTER UNIT. | Remove the clogged item and press the RESET KEY twice to release the lock of the AUTO FEED CUTTER UNIT. See page 11. |
| --- is displayed. | The AUTO FEED CUTTER UNIT is set on the main frame when the shutter of the SAFETY GUARD is up. | Press the RESET KEY twice to release ---. |

HOW TO TAKE OUT CLOGGED TAPE



CAUTION

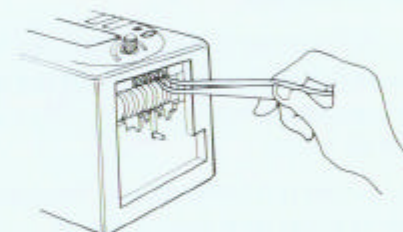
Be sure to turn OFF the power. Otherwise the cutter may operate and this is dangerous. Do not touch the blade. You may be injured.

1. Reverse the tape.
2. Detach the set tape from the FEED ROLLER.
3. Cut the returned portion with scissors, etc.



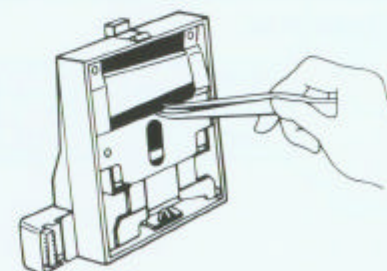
If the tape does not return.

1. Turn OFF the POWER SWITCH.
2. Cut the tape (near the clog) with scissors, etc.
3. Remove the tape clogged near the outlet with tweezers, etc.



Check that tape is not clogging in the cutter clearance in the AUTO FEED CUTTER UNIT, check it.

1. Detach the AUTO FEED CUTTER UNIT.
How to detach the UNIT. See page 12.
2. Check the clearance of the BLADE on the back.
3. When taking out the tape, do not touch the tape directly with your hand but use tweezers, etc. so as not to injure your hand.



HOW TO REPLACE PARTS



CAUTION

When replacing parts, be sure to turn OFF the POWER SWITCH and the SENSOR SWITCH, and pull the plug out from the outlet. It is dangerous if a key is pressed erroneously and the tape dispenser operates.

REPLACING THE CUTTER BLADE

* For details, read the manual that comes with the cutter blade.

1. Detach the AUTO FEED CUTTER UNIT.
How to detach the Unit. See page 12.
2. Remove the two screws and remove the CUTTER SPRING (holding plate). (Fig. 1)
3. Detach the cutter.
4. Set the CUTTER LOWER BLADE. The fluorine coated face (black matte face) should face upward. The semicircular notch should be on the lower left. (Fig. 2)
5. Set the CUTTER UPPER BLADE. The coated face (shiny) should come upward. (Fig. 3)
6. Return the CUTTER SPRING (holding plate).
7. Fasten the CUTTER SPRING with the two screws.

* If the cutter is set with its front and back reversed, tape cannot be cut.

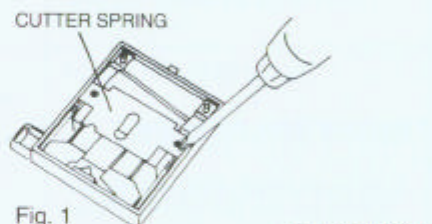


Fig. 1

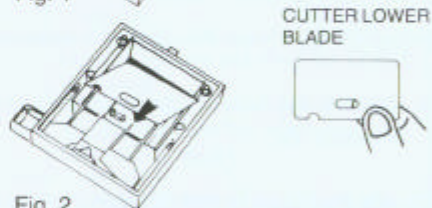


Fig. 2

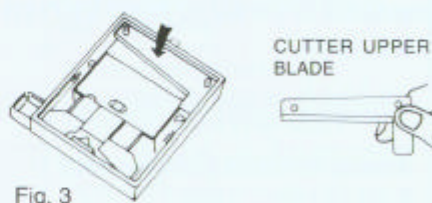


Fig. 3

REPLACING THE SEPARATING ROLLER UNIT

1. Detach the AUTO FEED CUTTER UNIT.
How to detach the Unit. See page 12.
2. Remove screws ① and ② in Fig. 1 (see Fig. 1) using a Phillips (+) screwdriver.
3. Pinch the center portion of the rubber ring of the SEPARATING ROLLER and pull it forward to detach the SEPARATING ROLLER HOLDER UNIT. (Fig. 1)
4. Remove the screws on the right and left of the ROLLER UNIT, and pull out the GEAR and COLLAR from the ROLLER shaft. (Fig. 2)
5. Attach a new ROLLER UNIT to the HOLDER, and insert the GEAR and the COLLAR by adjusting them to the ROLLER shaft shape, then fasten them with screws.
GEAR: Right side/longer screw
COLLAR: Left side/shorter screw
Check both sides of the roller unit. If the GEAR and COLLAR are set reversely, the ROLLER turns reversely.

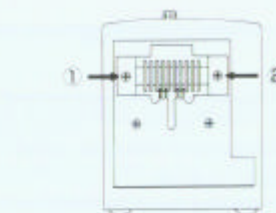
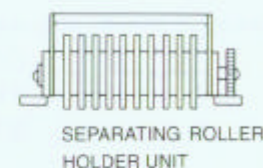


Fig. 1



SEPARATING ROLLER HOLDER UNIT

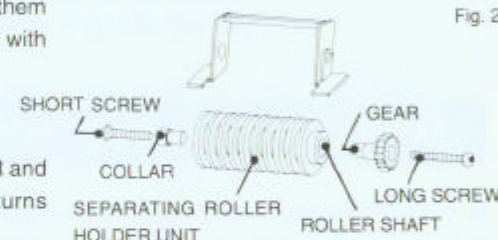
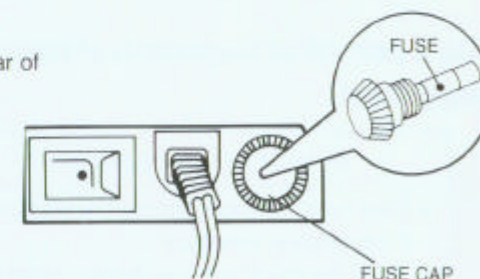


Fig. 2

6. Set the SEPARATING ROLLER HOLDER UNIT to the main frame, and fasten it with the two screws.

REPLACING THE FUSE

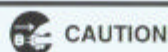
1. Remove the cap of FUSE HOLDER at the rear of the main frame by turning it counterclockwise.
2. Replace it with a new FUSE.
(Glass tube midjet FUSE Ø 5.2 mm 1A)
3. Set the cap by turning it clockwise.



CAUTION

- If the fuse is blown, check the cause and prevent recurrence.
- Do not use a fuse that is not specified.
- If the cause is not known, ask for inspection.

CLEANING



CAUTION

When cleaning, be sure to turn OFF the POWER SWITCH and the SENSOR SWITCH, and pull the plug out from the outlet. It is dangerous if a key is pressed erroneously and the tape dispenser operates.

- **AUTO FEED CUTTER UNIT:** If the pressure sensitive adhesive cannot be removed, wipe the CUTTER UNIT with cloth soaked with in remover, alcohol, etc. If the tape sticks easily to the CUTTER BLADE, apply silicon oil to the BLADE.
- **Main Frame Cover:** This is made of ABS resin. Wipe it with a dry cloth. Make sure that the keys and the AUTO FEED CUTTER UNIT do not get wet. Do not wipe the cover with industrial machine oil, thinner or benzine, as this may damage or deteriorate the cover.

MAINTENANCE, INSPECTION

- Periodical inspection is recommended for reliable operation.
- It is recommended to provide spares of consumables such as CUTTER BLADE, SEPARATING ROLLER UNIT, silicon oil, etc.
- This product is designed to work with general tapes, however, it does not work with all kinds of tapes.
For use with special tapes, consult a sales agent.

Do a periodical inspection of tape cutter that you have used for a long time!

Do you find these symptoms?

- Tape cutter does not operate sometimes even if the switch is turned on.
- When the power cable is moved, power turns on and off.
- Abnormal noise occurs during operation.
- The main frame has deformed or it is abnormally hot.
- There is a scorching smell.
- There are other abnormalities and failures.

What you should do

Turn off the power switch to prevent an accident and pull the power plug out from the wall outlet, and be sure to ask a sales agent for inspection and repair (at your expense).

OPTIONAL PARTS, CONSUMABLES

Order the following optional parts and consumables from the sales agent where you bought the tape dispenser.

| Optional parts and consumables | Recommended in the following cases. |
|--------------------------------|---|
| CUTTER (replacement BLADE) | Periodical replacement is recommended before the cutter gets hard to cut. |
| SEPARATING ROLLER UNIT | The SEPARATING ROLLER is a consumable part. Periodical replacement is recommended. |
| AUTO FEED CUTTER UNIT | The SENSOR may fail. |
| 1 inch (25 mm) reel | When using a small winding tape with a small shaft diameter. |
| TAPE HOLDING GUIDE | Effective for correcting tape run when the tape length is longer than the set length and when the tape is likely to displace from the SENSOR. |
| REEL stand 26 | External reel stand for large winding tape with a tape outside diameter up to 240 mm |
| REEL stand 35 | External reel stand for large winding tape with a tape outside diameter up to 350 mm |
| FUSE | When the FUSE is blown, be sure to check the cause and replace the fuse. Glass tube midget fuse ϕ 5.2 mm 1 A (short type) |
| Silicon oil | When the pressure sensitive adhesive of tape sticks to the BLADE, remove the adhesive completely and apply silicon oil to the BLADE. |

SPECIFICATIONS

| | |
|------------------------------------|--|
| Display | 3-digit LED digital display |
| Tape width to be used | 7 mm to 50 mm |
| Tape length setting range | 30 mm to 999 mm |
| Applicable reel | 3 inches (ø76 mm) Optional parts: 1 inch (ø25 mm) |
| Applicable tape outside diameter | ø170 mm or less |
| Applicable tape types | Cellophane tape, Kraft adhesive tape, Cloth adhesive tape, PP tape, Double-sided adhesive tape paper (thickness 0.5 mm or less), Filament tape, Crape tape |
| Drive | Tape feed, tape cut: DC motor |
| Power consumption | 18 W |
| Power source | 2 kind of AC 117 V, AC 230 V, 50/60 Hz (The Voltage is different per country) |
| Illuminance to be used | Fluorescent light 3,000 luxes or less (about 30 cm under 40 W light) Incandescent light 800 luxes or less (about 45 cm under 60 W light) Sunlight 10,000 luxes or less |
| Operating temperature and humidity | 5° to 40°C, humidity 80% RH or less |
| External dimensions and weight | 137 W × 249 D × 156 H mm, 2.5 kg |
| Material | Main frame cover: ABS resin Side plate, base plate: Cold rolling steel sheet Cutter: Single side fluorine coating |

START International
 4270 Airborn Drive
 Addison, Texas 75001, U.S.A.
 tel. 972.248.1999
 fax. 972.248.1991

info@startinternational.com
www.startinternational.com