



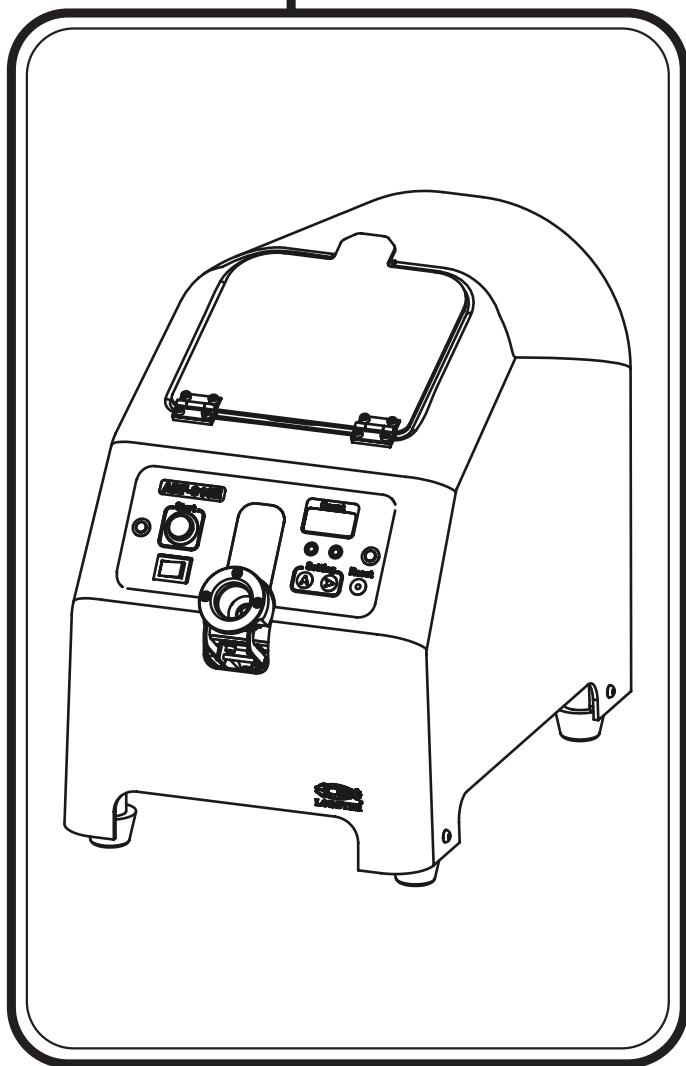
AUTO RIVET FEEDER



INSTRUCTION MANUAL

ARF-810E

英語 / ENGLISH



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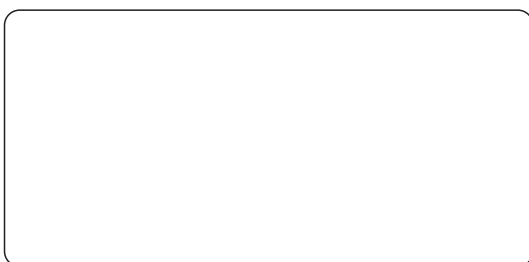
Professional model of auto rivet feeder to install blind rivets.

- Thank you very much for purchasing “LOBSTER” auto rivet feeder. To ensure correct operation, please carefully read this instruction manual and keep it in a safe place for later reference.
- This is Original instructions.

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● INTRODUCTION

- This is the feeder for "LOBSTER" brand blind rivet which can be used with "LOBSTER" brand riveter. It is not designed, produced or sold for any other purpose.
- This instruction manual shows how to operate and perform maintenance and inspection in order to use safely and efficiently.
- Use appropriate blind rivet which is fully designed and meets specifications.

1 IMPORTANT NOTICES

- Read this manual carefully before using this machine. Follow instructions in this manual for handling this machine, replacing accessories or parts as needed.
- If you have any questions, check the model (type) and contact the "LOBSTER" dealer where you purchased the machine.
- It is impossible to foresee all potential dangers and describe them in this manual. You must use this machine paying attention to safety as well as observing the instructions in this manual.
- Lobtex Co., Ltd. has the copyright of this manual. It is prohibited to publish, copy or translate to other language without prior consent.

2 INDEMNIFICATION

- Our warranty does not apply to direct and indirect damages and lost income caused by the misuse, abuse, and unauthorized modification of the machine.
We do not guarantee the strength or quality of blind rivet.
- We do not guarantee any damages and failures caused by any modifications without our written approval.
- We do not guarantee any damages and failures caused by use of parts other than our recommendation.

● IMPORTANT SAFETY INSTRUCTIONS



- ◆ Be sure to read the following Important Safety Instructions carefully and make sure that you understand them thoroughly before using this machine.



- ◆ Always wear protective goggles while using the machine.
The rivets may jump out by accident and cause injuries.



- ◆ Do not put your hands in the machine or close to the moving parts while you are using the machine. Otherwise your hand may be caught and injury may result.



- ◆ This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

- ◆ These Important Safety Instructions are divided into **⚠ WARNING** and **⚠ CAUTION**.
The differences between these two levels are described below.

⚠ WARNING : Indicates a potentially hazardous situation which, if ignored, may result in death or serious injury to the operator.

⚠ CAUTION : Indicates a potentially hazardous situation which, if ignored, may result in moderate injury to the operator or physical damage.

Moreover, failure to follow the instructions marked with the **⚠ CAUTION** symbol or cautions without a **⚠ CAUTION** symbol which appear in the text of this manual may also have serious results in some cases. Always be sure to observe the instructions given in the Important Safety Instructions.

- ◆ After reading this manual, keep it in a safe place where it is easily accessible to machine users.

⚠ WARNING

1. Always wear protective goggles while you use the machine.

- The rivets may jump out by accident and cause injuries (e.g. blindness).
- Use a dust mask, safety shoes, hard hat and hearing protector appropriately to prevent accidents and injuries.

2. Make sure that the machine and the power cable are connected securely.

3. Prior to use, check for damage to respective parts, and ensure that all parts are able to operate normally and provide the functions specified. If they are unable to operate normally or provide the functions specified, do not use them, but arrange for a repair by a competent person.

- If the machine is used while any parts are damaged, injury may result.
- If the machine is damaged by objects being dropped onto it, the damaged part may break and accident or injury may result.
- When replacing or cleaning parts, observe the instructions in the instruction manual.
If you cannot find the relevant instructions in the manual, arrange to have a repair carried out by the supplier you purchased the product from, or by Lobtex.
- If there is no power to the equipment even though the power switch is turned on, or the machine cannot be started when the start button is pressed, do not use the machine.
Otherwise, it may operate abnormally, causing injuries.

4. Install and use on a stable work table that is horizontal and free from vibration.

- Otherwise, the machine may not be able to achieve performance as specified, or it may be dislodged, leading to breakage, injury, or damage.
- If you install it on the floor, there is a risk that people may step on it.

5. Keep the machine away from children.

- Accidents or injury may result.

6. Do not use the machine in rain or in a wet place.

- Accidents or injury may result.



WARNING

7. Avoid a sudden start of the machine. Before connecting it to the power supply, confirm that the switch is not turned on.
8. When replacing parts or accessories, follow the steps specified.
9. Be sure to use the provided AC adapter for the power supply.
10. Wear clothes appropriate for work. Cover long hair with a cap or hair cover.
 - Do not wear loose clothes or accessories including necklaces.
 - Otherwise, your hair, clothes, or accessories may be caught in the machine.
11. Do not use the machine if it cannot be started or stopped using its switches.
 - Otherwise, it may operate abnormally, leading to injuries. Arrange for a repair by a competent person.
12. Keep the machine away from children. Prevent anyone except for workers from touching a power cable or the machine.
 - Otherwise, it may lead to injuries.
13. Check thoroughly for damage to the machine. If any loose or damage to parts are found, do not use the machine, but arrange for a repair by a competent person.
 - Failure to perform this step may lead to accidents or injuries due to malfunctions.
14. Use specified accessories or replacement parts only.
 - Otherwise, unexpected motion of the machine may be caused, leading to accidents or injuries.
15. Be sure to turn off the power before performing work such as changing the rivet size.
16. Never put your hand inside the rotating drum
 - Otherwise, unexpected motion of the machine may be caused, leading to accidents or injuries.
 - Be sure to take out the remaining rivets by riveter supply
17. Do not intentionally press the switch that is pressed by opening and closing the lid (rivet slot).
18. Use specified genuine parts only, and only allow persons having technical knowledge and skills to repair the machine.
 - If no such competent person is available, arrange to have a repair carried out by the supplier you purchased the product from or by Lobtex.
19. If the machine is faulty or any abnormal noise is heard while in use, immediately turn off the switch to stop it, and arrange to have a repair carried out by the supplier you purchased the product from or by Lobtex.
 - Continued use of the equipment may cause injuries.



CAUTION

1. Before starting maintenance or disassembling the unit to replace part, be sure to take off power cable.
 - By unexpected action such like parts jumps out may cause accidents.
2. When you handle grease, obtain the safety data sheet (SDS) from the supplier, and follow the described instructions.
3. The parts to be used must be those supplied from Lobtex or recommended by Lobtex. Select and attach parts applicable to your rivet.
 - Otherwise the unit may not produce maximum performance and may malfunction resulting in an accident or personal injury.
4. Make sure that the workplace is safe, clean and organized.
 - Accidents can easily occur in untidy workplaces.
5. Ensure sound footing and do not work in an unnatural posture.
 - You may fall and injure yourself.
6. Keep people who are not involved in work away from the workplace.
 - Accidents or injury may result.



CAUTION

7. Maintain the machine with proper care.

- Refer to the Instruction Manual for details on replacing parts and attachments, otherwise injury may occur.

8. Use the machine carefully and concentrate on correct operation at all times.

- Use the machine with proper care, paying full attention to methods of handling and operation and surrounding conditions. Accidents and injury may result if this practice is not followed.
- Use common sense at all times, otherwise accidents or injury may result.
- When you are tired, do not use the machine, otherwise accidents or injury may result.

9. Ask Lobtex to carry out any repair work required.

- If you find any fault, arrange to have an inspection and a repair.
- Repair work should only be carried out by a qualified technician. Please contact your nearest "LOBSTER" distributor, representative, or direct to Lobtex Co., Ltd., Osaka. If the machine is repaired by someone without the necessary qualifications and experience, the machine may not perform to optimum standards, and accidents or injury may result.

10. Do not modify the machine. Any modification to the equipment impairs the validity of safety devices leading to a higher risk to operators.

- This machine conforms to applicable safety standards. Do not modify it. Otherwise, accidents or injuries caused by abnormal operation may occur.

11. When disposing of the machine or packing materials, observe local laws and codes on waste disposal.

12. The year and month of production of the machine is indicated by a code and four-digit number on the warning seal. (See page 6)

13. Warning seal include important information and tips on using the machine. If the labels become so dirty or damaged that they cannot be read, order and replace them with new labels.

You can order new labels from Lobtex Co., Ltd. through our dealers.

14. This machine is a feeder for professional use. Operators who use it for the first time must understand its instruction manual completely before maintaining or using the machine.

- If the machine is broken, do not operate.

15. Slips, trips and falls are major causes of injury at workplace. Be aware of trip hazards caused by power cable.

16. This machine is not intended for use in potentially explosive atmospheres and is not insulated against contact with electric power.

17. Preventative maintenance should be carried out, after a specified time of operation, a specified number of cycles/operations or a stated number of times per year.

18. Store the machine appropriately when not in use.

- Store it in a dry and high place where it can be locked away or is out of the reach of children. Otherwise, it may cause injury.

19. Do not use more than ability.

- Use the equipment according to the capacity of the machine and in accordance with its design specification. Use of the machine incorrectly may lead to accidents.

20. Do not handle any power cable roughly.

- Do not pull the power cable to remove it from the receptacle outlet.
- Keep the power cable away from heat, oil, and sharp edges.
- Pay close attention to prevent the power cable from being stepped on, hooked, or damaged by the use of excessive force. Otherwise, it may cause an electric shock or a short-circuit, leading to fire.

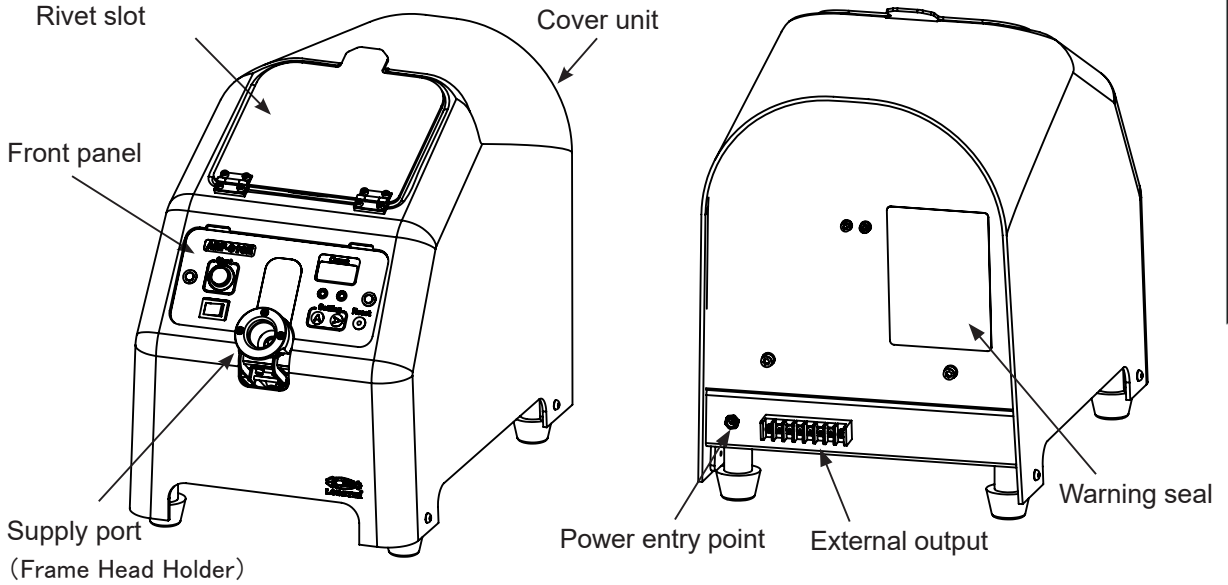


CAUTION

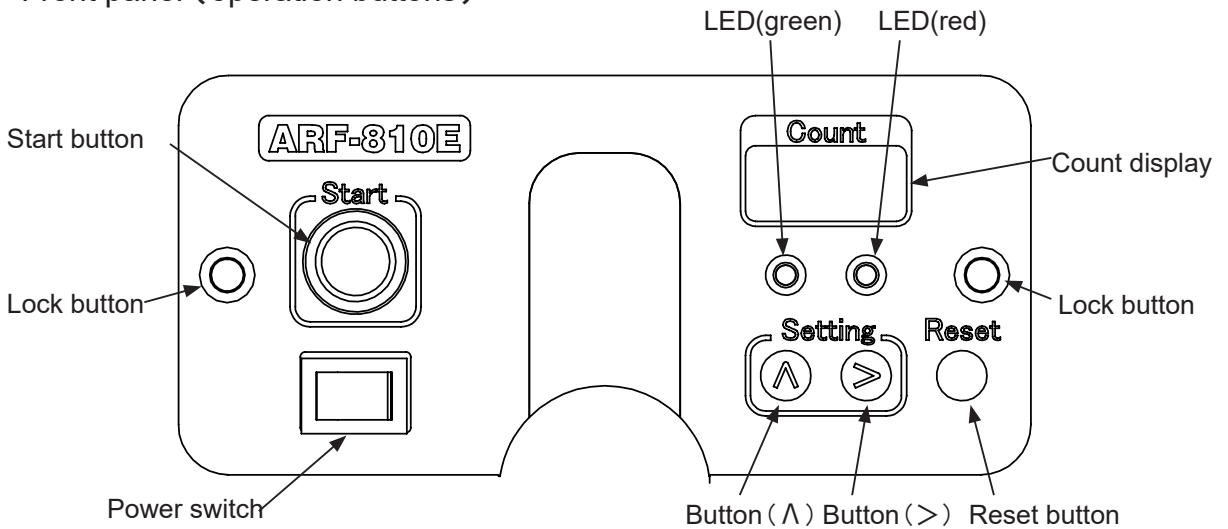
- 21. Check for damage to respective parts prior to use and arrange for a repair by a competent person if any damage is found.**
- Check thoroughly for damage to respective parts prior to use and ensure that the machine operates normally and the specified functions can be provided.
 - When replacing or cleaning parts, observe the instructions in the instruction manual. If you cannot find them in the manual, arrange to have a repair carried out by the supplier you purchased the product from, or by Lobtex.
 - If there is no power to the equipment even though the power switch is turned on, or the machine cannot be started when the start button is pressed, do not use the machine. Otherwise, it may operate abnormally, causing injuries.
- 22. If you find rust, or experience unusual odor, heat, or other abnormalities when using the machine for the first time after purchase, do not use it, but contact the supplier you purchased the product from, or contact Lobtex.**
- 23. Keep your fingers away from around the rotating shaft or the inside of the machine.**
- Otherwise, your fingers may be caught, causing injury.
- 24. Using the machine repeatedly may cause fatigue in your hands, shoulders, neck, and other locations.**
- To avoid pain and fatigue, assume an appropriate and natural posture, and change your posture as necessary.
 - If you suffer from continuous discomfort, pain, numbness, palpitations, stiffness, or hot flashes, do not ignore it. Consult with your employer and health manager.

● NOMENCLATURE

◇ Substance



◇ Front panel (operation buttons)

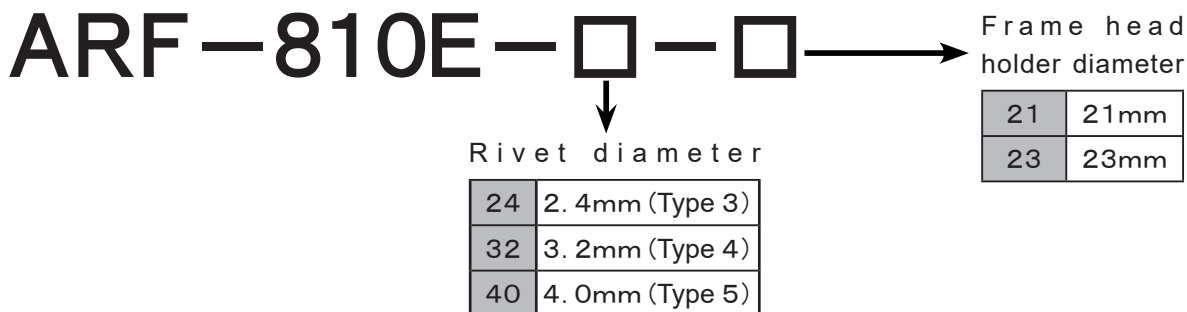


■ ACCESSORIES ■ Check at the time of purchase

- AC adapter AIKOH ELECTRONICS CORP. AKA-12030 (Input AC100-240V Output 12V 3.0A)
- Power Cable
- Easy guide
- Tweezers

● TECHNICAL DATA

◇ MODEL



◇ Product specification

Operating voltage	DC 12V	
Current consumption	Below 1.5A	
Dimensions (Length×Height×Width)	420mm × 350mm × 240mm	
Weight	10.5kg	
Operation-guaranteed environment	Temperature	5~40°C
	Relative humidity	80% RH max (No condensation)
Storage temperature range	-5~55°C	
Noise	75dB or less	
Cycle time	3min/pcs.	
Basket capacity	1000pcs. (φ2.4・φ3.2)・500pcs. (φ4.0)	
Frame head insertion port dia	21mm・23mm	

- * Product specifications and design are subject to change for improvement without notice.
- * Weight and dimensions given are standard values. Actual products may differ slightly from the values given.
- * The rating plate (warning plate attaching location) is on the back side of the machine.
- * The year and month of production of the machine is indicated by a code and four-digit numbers.
- * Measured at equivalent noise measurement level.
- * Be careful not to exceed the basket capacity. If it is exceeded, it may cause a malfunction.
- * When using a retaining Nosepiece, if a spent mandrel protrudes from it after riveting, you may not pick up a rivet. Then push the rivet into the Nosepiece so that you can pick it up.

◇ Operating modes

Count display	Operating modes	Function
TCNT	Total Count Mode (TCNT)	Count the number of times rivet is picked up, which starts from 0000.
PSET	Preset Count Mode (PSET)	Count down the number of rivet you picked up, which starts from the preset number. When coming down to 0000, the number returns to preset number.
NCNT	No-Count Mode (NCNT)	No counting. The display always shows " _ _ _ _ "

◇ Applicable riveter

Use R2B1 · R2A1 · R1A1 · AR2000MV · ARV011M · ARV015MX · ARV022M
ARV025M (can be used without vacuum function when using Retaining Nosepiece)

* Use a riveter appropriate for the frame head holder. If different-size Frame Head is used, it does not work properly.

Diameter of Frame Head	Applicable riveter
21	R2B1 · R2A1 · R1A1 · AR2000MV
23	ARV011M · ARV015MX · ARV022M · ARV025M

◇ Rivet size

Use NSA · NTA · NA · NST · NSS · NS · AP · LST · or LSS For rivet sizes, see the list below.

Rivet diameter	Rivet size	Round head rivet	Countersunk head rivet	AP rivet
φ 2.4	3-2	○	○	—
	3-3	○	○	—
	3-4	○	○	—
φ 3.2	4-1	○	—	—
	4-2	○	○	—
	4-3	○	○	○
	4-4	○	○	—
	4-5	○	○	○
	4-6	○	○	—
φ 4.0	5-2	○	○	—
	5-3	○	○	—
	5-4	○	○	○
	5-5	○	○	—
	5-6	○	○	—

* Do not insert anything other than the blind rivet to be used into the rivet slot (see P6).

◇ How to read the year and month of production

a year/month of manufacture	1	2	3	4	5	6	7	8	9	10	11	12
An English character	A	B	M	N	K	W	T	Y	U	O	L	Z

Example

year: 2023 month: 4 → BMNOOOO

↓ ↓
B M

↓
N

↓
(Serial No.)

Revision history of instruction manual

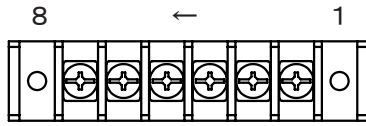
Item : Auto rivet feeder

Model : ARF-810E

Date of first edition: March 2023

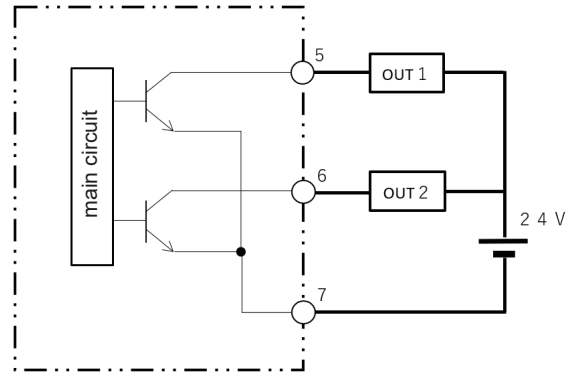
◇ External output

Counting data can be output to an external device such as a PLC. The connecting way is as below.



- * The maximum electric current is 7mA.
- * Do not connect to vacant terminals.
- * Incorrect connection may cause failure.

Terminal No	Function
1	for fixing screws
2	empty
3	empty
4	empty
5	OUT 1(count up)
6	OUT 2(preset completed)
7	ground
8	for fixing screws



◇ Error indication

The display and processing details when an error occurs are shown in the table below. If the condition is not improve, stop using the product and contact the store where you purchased the product or our call center.

Display	Condition	Cause	Motion	Return condition
Er01	motor lock	Motor stopped due to rivet clogging, etc.	Behavior 1	Remove the abnormality and press the start button
Er02	motor overload	Overload due to overcurrent, overheating, etc.	Behavior 1	Remove the abnormality and press the start button
Er03	Control board failure	Abnormality caused by the board	Behavior 1	Remove the abnormality and press the start button
Er04	Voltage anomaly	Power supply voltage exceeds the range of 12V±10%	Behavior 1	Remove the abnormality and press the start button
Er05	Rivet supply abnormality	Insufficient insertion of riveter, rivet clogging near supply port, etc.	Behavior 1	Press the start button while the rivet is in the arrowed part of the figure below.
Lo-r	No rivet (LO-R)	Rivet not aligning on a rail	Behavior 2	Replenish rivets and press the start button

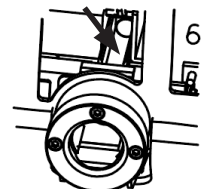
- * If rivets are clogged, open the front panel and remove the rivets. (See pages 6 and 13)
- * If "Er05" appears, returning without rivets will cause a difference in the number of counts.

【Behavior 1】

- Motor stop
- Buzzer sounds for 5 seconds
- LED red lights, LED green lights off
- Do not count up (down)

【Behavior 2】

- Motor stops
- Buzzer sounds for 3 seconds
- Count up (down) execution

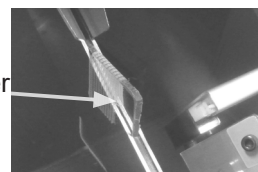


● PREPARATION BEFORE USE

1 Open the rivet slot and remove the rail spacer (for transportation).

- * Rivets cannot be supplied if the spacer is left on the rail. In addition, there is a risk of parts damage.

Rail spacer



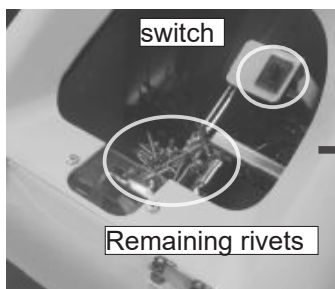
2 Connect a power cable to AC adapter and make it plugged in. (Refer to cable entry point on P.6)

3 Put the rivet into the rivet slot.

- * Maximum capacity is 1000 pcs (2.4 and 3.2mm rivet) or 500 pcs (4.0mm rivet).
- * If rivets are on the rail, remove them.
- * If you open the rivet slot during operation, the feeder stops.



Put the rivet into the rivet slot



switch

Remaining rivets



Remove remaining rivets

4 Turn on the power "O" → "I"

- * The current operating mode is displayed for 3 seconds. The initial value is "total count mode".
- * After the operation mode is displayed, the number counted last time blinks. The initial value is "0000".

5 Press the start button

- * Operation begins. Motion stops when a certain amount of rivets are aligned on the rail.

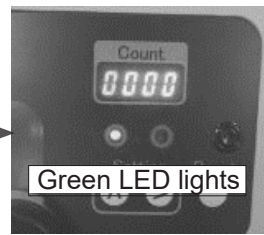
6 Insert the riveter into the supply port.

- * Rivets are not supplied for the first time. When the riveter is inserted into the supply port and pulled out, the rivet is set in a state where it can be supplied, and the green LED lights up.
- * After the second time, the buzzer sounds and the green LED flashes when the riveter is inserted into the supply port and pulled out. Rivets are supplied and the count number changes.
- * Be sure to insert the riveter until the buzzer sounds and the green LED flashes.
- * Always activate the riveter vacuum when not using the retaining nosepiece.

First time



Supply port



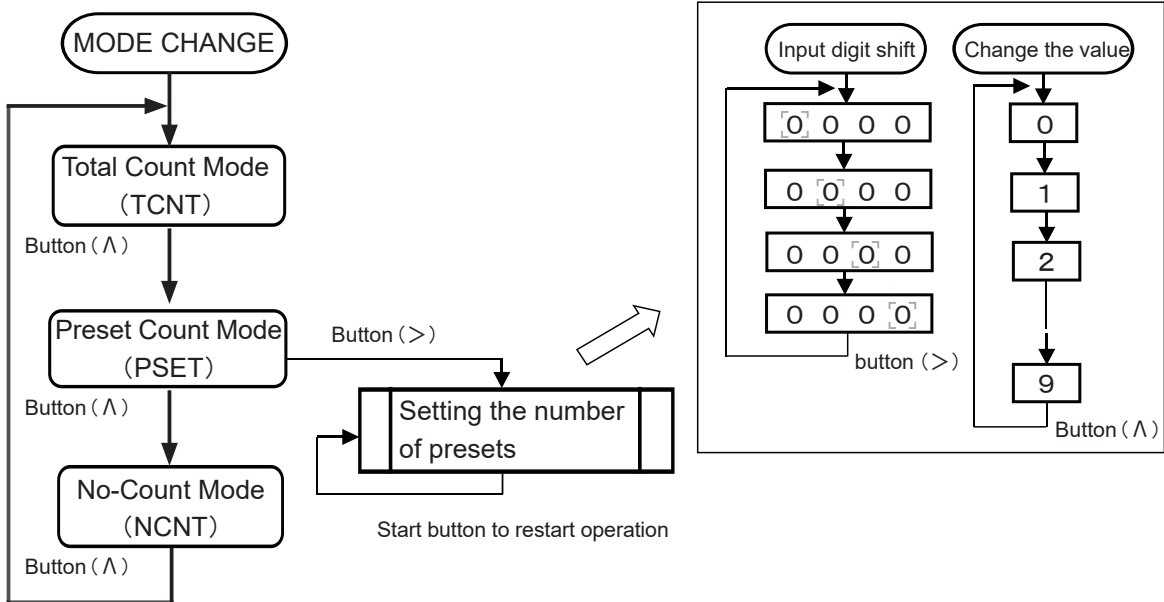
Green LED lights

● HOW TO OPERATE

Follow the steps below to make various settings and changes. (Refer to page 6 for button layout.)

* For details of each operation mode, see P.7.

◇ Change operating mode



1 Press and hold button (>) (2second)

* The current mode flashes in the count display.

2 Press the button (Λ) and select the mode you want to change.

* Each time the button (>) is pressed, the display changes from "TCNT" → "PSET" → "NCNT".

3 Press the button (>) to determine the operation mode.

* If you use total count mode or no count mode, proceed to step 4.

* When using the preset count mode, set the number of presets according to the following procedure.

- 1) Press the button (>) to change the blinking digit.
- 2) Press the button (Λ) to increase the number of the blinking digit.
- 3) Set it to any setting value.

4 Press the start button.

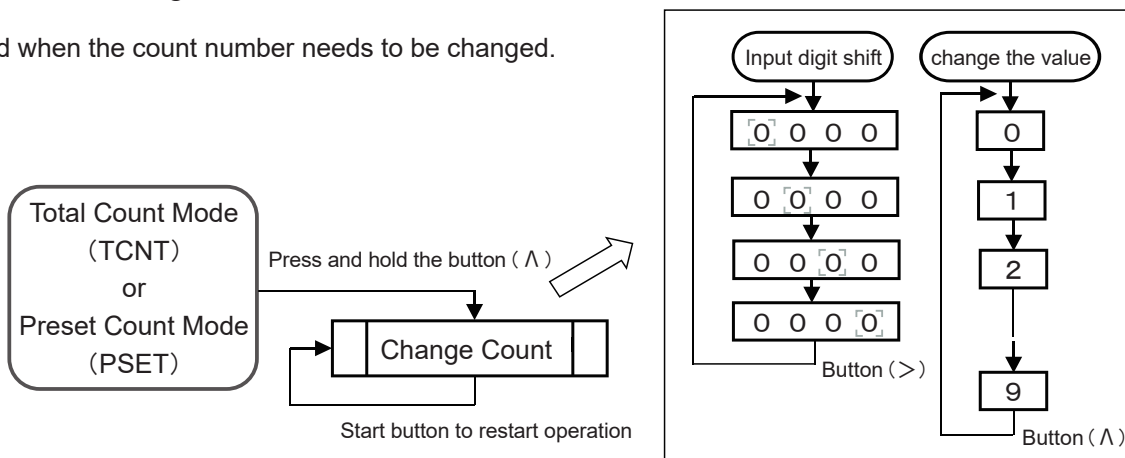
* It will start working in the modified mode.

◇ How to reset the number of counts

- 1** Press and hold the reset button (2 seconds). The count number returns to the initial value.
 - * When using in total count mode, the count number becomes "0000".
 - * When using the preset count mode, the count number becomes the set value.

◇ How to change the count number

Used when the count number needs to be changed.



- 1** Press and hold button (Λ)
 - * The 4th digit of the count display blinks.
 - * Changes are limited to use in total count mode or preset count mode.

- 2** Follow the steps below to change the count number.
 - 1) Press the button (>) to change the blinking digit.
 - 2) Press the button (Λ) to increase the number of the blinking digit.
 - 3) Change the count number.

* When using the preset count mode, the count cannot be changed beyond the set value. If you change it, set it to the preset setting value or less.

- 3** Press the start button.
 - * Operation starts from the changed count quantity.

◇ How to open the front panel

When you want to check the supply port, or any trouble such as rivet clogging occurs near the supply port, open the front panel and check. Also, make sure power turned off, to do this.

- 1 Press the lock button (2 places) to release the button. (ref P6)



- 2 Remove front panel.

- * Be sure that front panel is locked during operation.
- * If rivets are clogged, remove unnecessary rivets with the included tweezers.

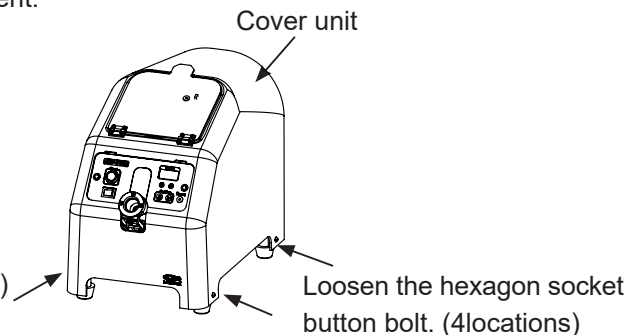
● CHANGE SIZE OF RIVET

When changing the diameter of the rivet to be used, it is necessary to change the size of the separator unit and rail unit. Follow the steps below to replace. Be sure to turn off the power before starting work.

- * Always check that there are no rivets left inside the feeder before inserting the rivets to be changed.
- * If you only change the length of the rivet you are using, you do not need to replace the part.
- * The model will be changed by replacing the separator unit and rail unit. Please refer to page 22 for a list of required parts and models for replacement.

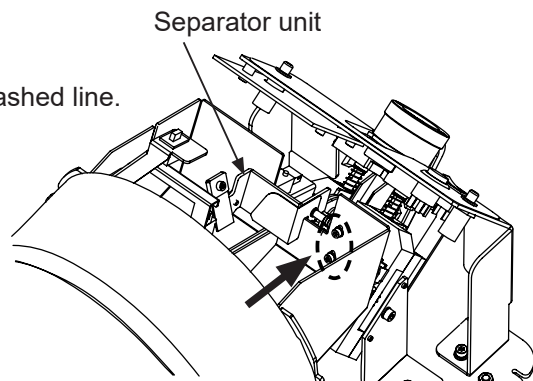
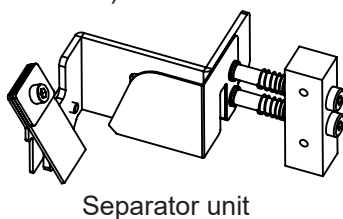
- 1 Remove the cover unit.

- * Use a hexagonal key wrench (2.5 mm opposite flats)
- * Loosen the 4 locations.
- * If the cover unit is difficult to remove, spread it horizontally. (Bolts will not fall off.)



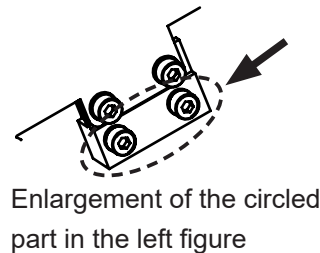
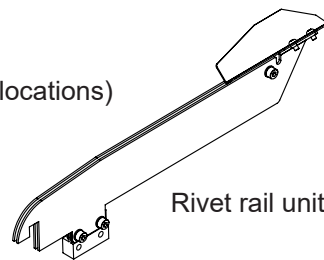
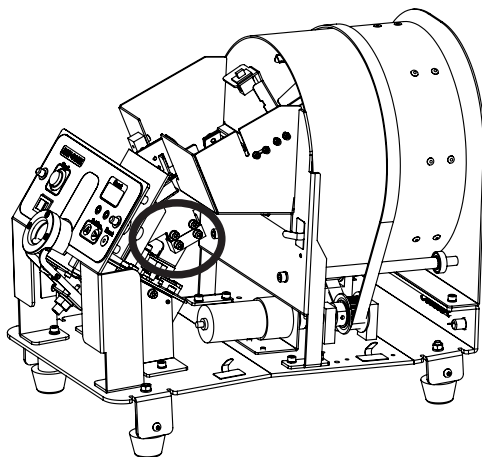
- 2 Remove the separator unit.

- * Use a hexagonal key wrench (2.5 mm)
- * Loosen the stainless steel screw in the dashed line. (2 locations)



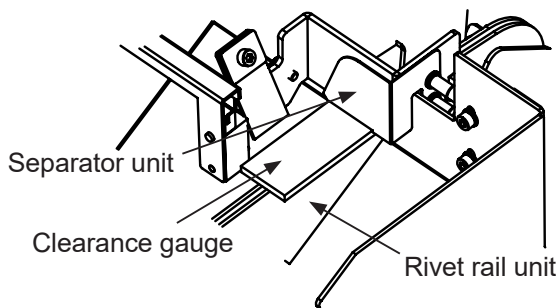
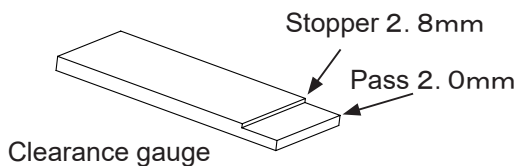
3 Remove the rivet rail unit.

- * Use a hexagonal key wrench(3 mm)
- * Loosen the stainless steel screw in the dashed line. (2 locations)



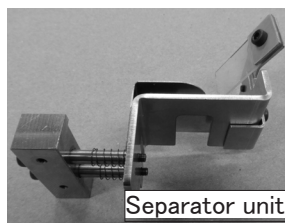
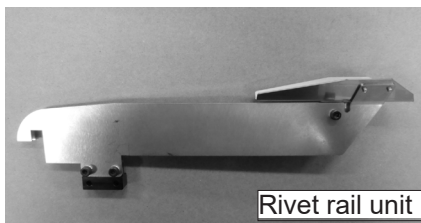
4 Install the rail unit of the size to be replaced and the separator unit in reverse order.

- * The clearance between the separator unit and the rail should be 2 to 2.8mm.
- * Improper clearance dimensions can cause rivet jamming.
- * If it is difficult to set clearance dimensions, use an optional jig (clearance gauge).
- * Insert the clearance gauge into the separator unit as shown in the figure, and attach it so that it stops naturally with the stopper.



◇ Option parts

- Separator unit (Type 3) Code N o. : 69128
- Separator unit (Type 4) Code N o. : 69129
- Separator unit (Type 5) Code N o. : 69130
- Rivet rail unit (Type 3) Code N o. : 69097
- Rivet rail unit (Type 4) Code N o. : 69098
- Rivet rail unit (Type 5) Code N o. : 69099
- Clearance gauge Code N o. : 70219



● CHANGE OF THE RIVETER USED

When changing the riveter to be used, it is necessary to replace the frame head holder. Follow the steps below to replace. Be sure to turn off the power before performing this work.

- * Refer to P8 for replacement, and select the frame head holder that matches the riveter you use.
- * The model will be changed by exchanging the frame head holder. Refer to page 22 for a list of required parts and models for replacement.

1 Remove the frame head holder.

- * Use a hexagonal key wrench(3 mm)
- * Loosen the stainless steel screw in the dashed line. (3 locations)

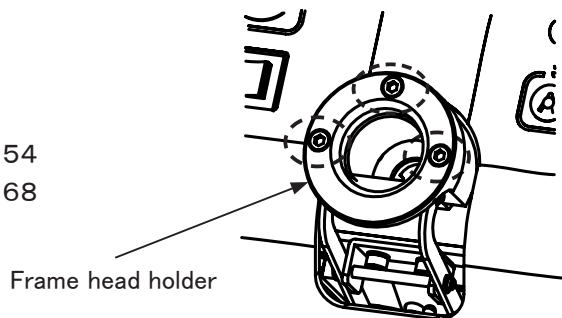
2 Install the frame head holder of the size to be replaced.

- * The frame head holder (21) is blue and the frame head holder (23) is black.

◇ Option parts

Frame head holder (21) Code N o. : 69154

Frame head holder (23) Code N o. : 69168

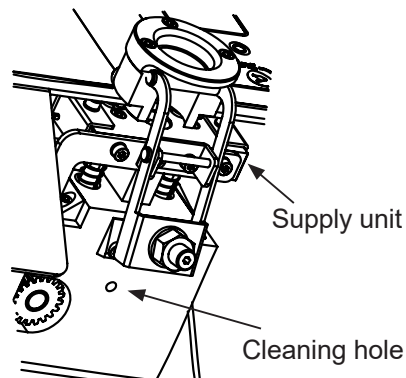


● MAINTENANCE

Perform the following tasks and checks on a daily basis. Be sure to turn off the power before performing this work.

1. Cleaning each parts.

- If there is dirt, wipe it off with a waste cloth.
- Remove dirt and dust from the area around the rivet insertion port and the supply port by using an air blower, etc.
- If the supply unit does not move smoothly, blow air through the cleaning hole at the bottom of the supply unit.
* Remove the cover unit before doing this. (See page 13)

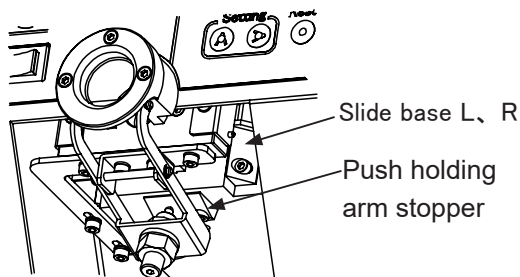


2. Check parts for damage.

- If there is any damage, contact the store where you purchased the product.
- Perform maintenance inspections once a week. If neglected, it may not work properly.

3. Apply grease.

- If you feel that the riveter insertion is heavy, apply grease to the locations shown in the figure on the right.
- Apply grease thinly. If too much, the movement of the supply unit may be adversely affected.



3. Storage

- Store the device in a well-ventilated place with little dust and humidity, and in a stable place where there is no risk of it falling.
- In order to use this machine for a long time, please request regular overhauls from us. (Overhaul is charged) For overhaul and repair, contact the store where you purchased the product or call us.

● ORDERING PARTS

Specify the model name, part name, code No., and quantity as shown below, and place an order with the store where you purchased the product.

Model	Parts name	Code No.	Qty.
ARF810E	Separator unit(Type 3)	69128	1
ARF810E	Frame head holder (21)	69154	1

* Note that if the parts are improved, the inventory of the old product will be 5 years.

● TROUBLESHOOTING

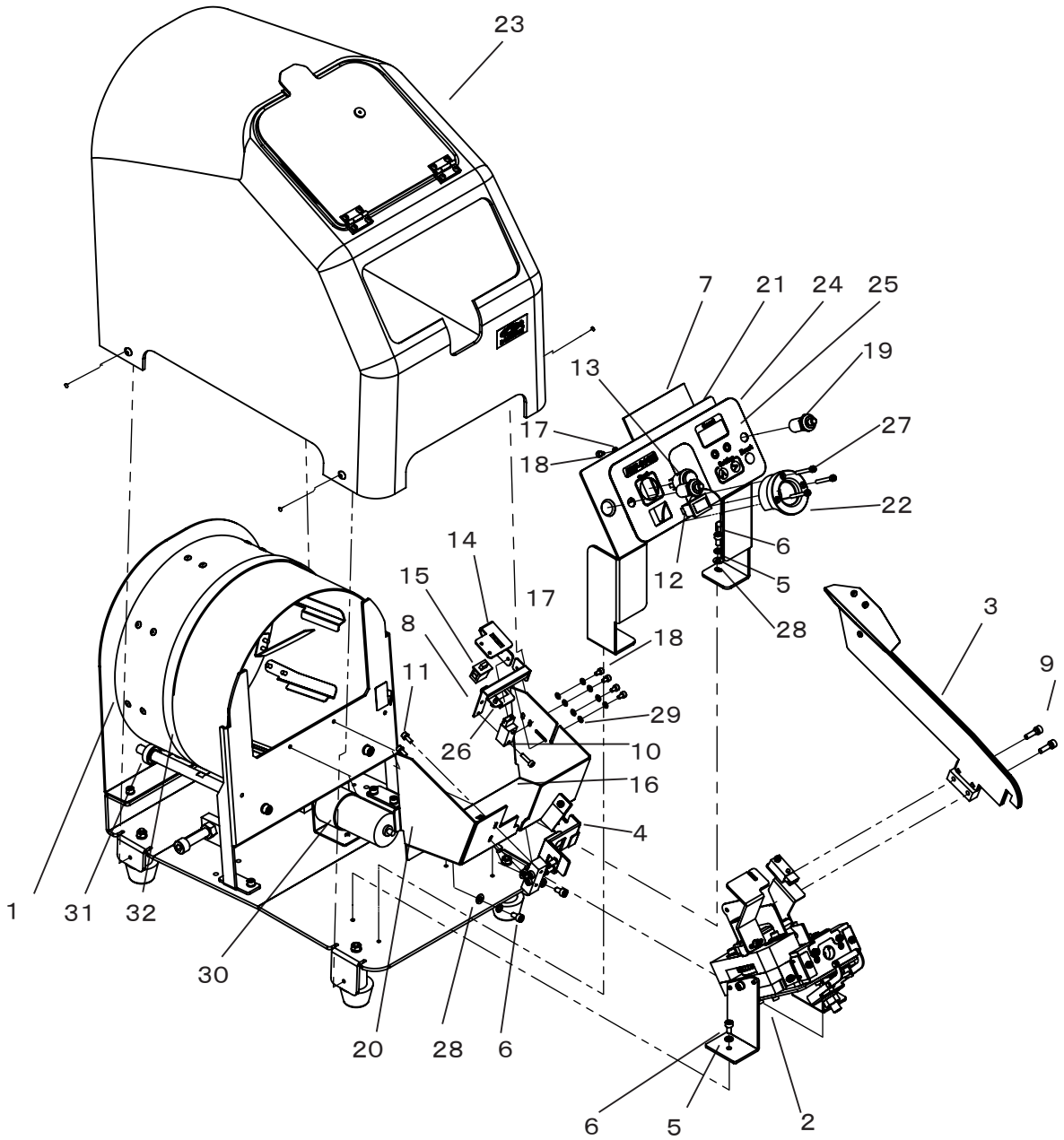
If a problem occurs, check the following. If the problem persists after checking the items in the table below, contact your nearest "LOBSTER" dealer or contact Lobtex.

In making any inquiries about this product or requests for repair work, first check the troubleshooting items below and then make a note of the model number, the usage conditions and the trouble symptoms in as much detail as possible. If you can provide this kind of information, it may reduce the amount of time required for delivery or repairs to be completed.

Trouble		Cause	Countermeasure
The machine will not operate even though the start button is pressed.	1	The power supply plug or power supply jack is disconnected.	Connect the power supply plug or power supply jack.
	2	The lid is open and the safety switch is working	Close the lid tightly
Rivets will not feed to the riveter.	1	Rivet jammed in the rail	Open the lid and remove the jammed rivet
	2	Size of Nosepiece is not appropriate for blind rivets.	Change the size of nosepiece to that appropriate for blind rivets.
	3	The vacuum mechanism of the riveter is not turned on.	Turn on the vacuum mechanism.
	4	Volume of blind rivets loaded exceeds appropriate level.	Reduce the volume of loaded rivets to the appropriate level.
	5	Items other than rivets are inserted	Insert rivets only
	6	Rivet clogging in the supply section	Open the front panel and remove the clogged rivet (see page 13).
	7	The rails of the rivet rail unit are dirty.	Clean the rails and remove any dirt.
	8	The riveter is not correctly inserted into the inner side of the frame head holder.	Plug it in until the green LED flashes and the buzzer sounds
	9	Separator clogged with rivets	Open the lid and remove the jammed rivet.
	10	Poor movement of supply unit	Use the cleaning hole to blow air. (See page 16)

● PARTS TABLE

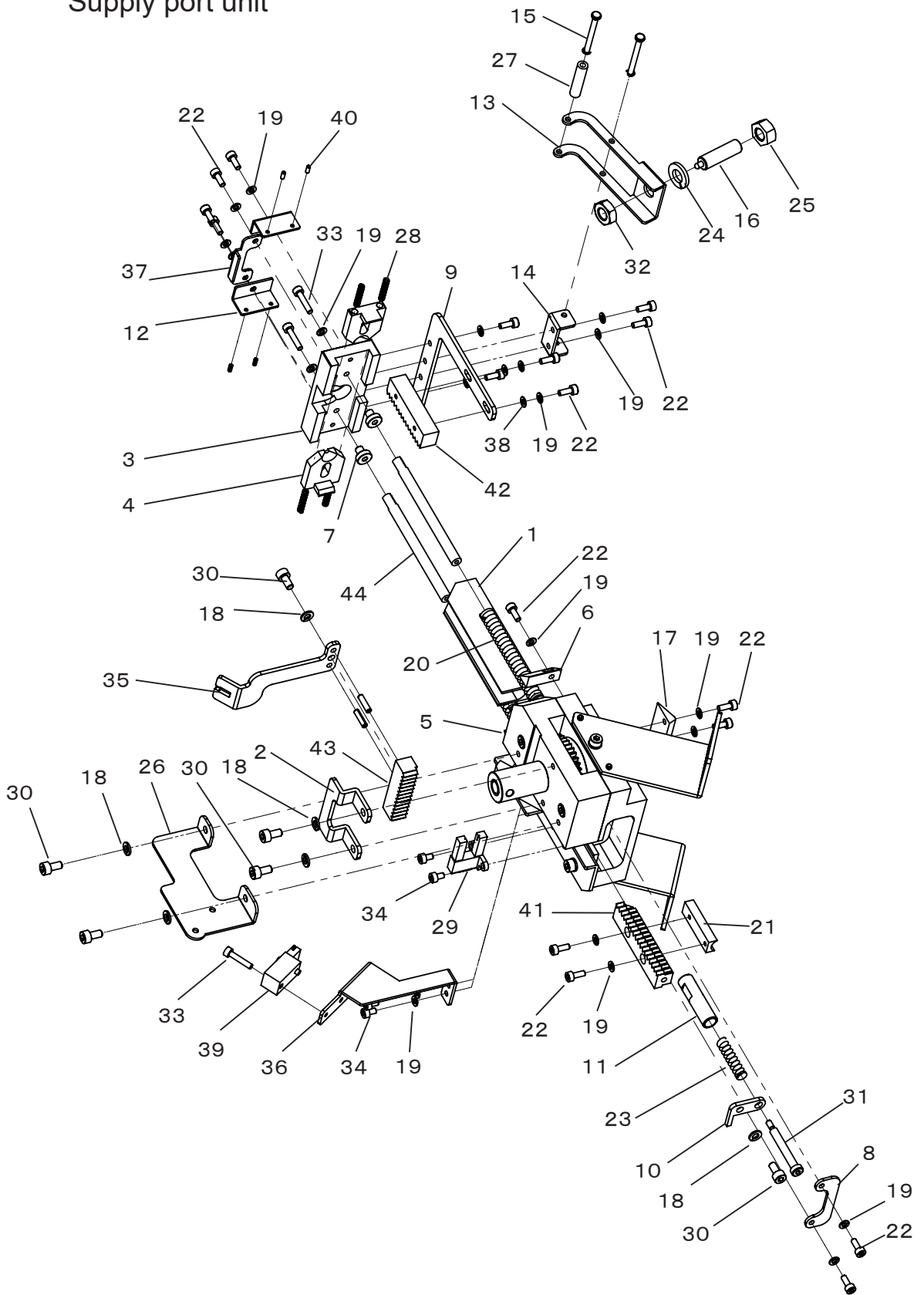
ARF-810E main unit



Index No.	Part name	Code No.	Material
1	Drum unit		Stainless
2	Supply port unit	69083	Steel
③-A	Rivet rail unit (Type 3)	69097	Steel, Stainless
③-B	Rivet rail unit (Type 4)	69098	Steel, Stainless
③-C	Rivet rail unit (Type 5)	69099	Steel, Stainless
4-A	Separator unit (Type 3)	69128	Steel, Stainless
4-B	Separator unit (Type 4)	69129	Steel, Stainless
4-C	Separator unit (Type 5)	69130	Steel, Stainless
5	Spring washer M 4	20930	Steel
6	Hex socket bolt M 4× 8	20918	Steel
7	Electric feeder substrate unit	69167	Electronic device
8	Sensor plate	70218	Stainless
9	Hex socket head bolt with spring washer M 4× 15	69157	Stainless
10	Alignment check sensor	69161	Electronic device
11	Hex socket head bolt with spring washer M 3× 8	61443	Stainless
12	Power switch	69164	Electronic device
13	Start button	69163	Electronic device
14	Safety switch mounting plate	69174	Steel
15	Safety switch	69165	Electronic device
16	Hex socket bolt M 3× 12	61337	Steel
17	Spring washer M3	12442	Steel
18	Hex socket bolt M3× 5	43736	Steel
19	Camlock fastener	69162	Plastic
20	Front basket	69136	Stainless
21	Substrate mounting plate	69138	Steel
②②-A	Frame head holder ϕ 21	69154	Plastic
②②-B	Frame head holder ϕ 23	69168	Plastic
23	Cover unit	69715	Plastic, Stainless, Steel
24	Front panel	69159	Stainless
25	Panel sheet	69169	Plastic
26	Safety switch fixing plate	70336	Steel
27	Hex socket bolt M 3× 25	67673	Steel
28	Plain washer M 4	25585	Steel
29	Plain washer M 3	21539	Steel
30	Motor	69105	Electronic device
31	Bearing	69120	Steel
32	Belt	69111	Rubber

Parts with circled Index No. are consumable parts.
They should be replaced periodically.

Supply port unit



Index No.	Part name	Code No.	Material
1	Pusher guide	69052	Steel
2	Rack gear retainer plate	69050	Steel
3	Supply unit pusher plate	69056	Steel
4	Finger	69057	Steel
5	Slide base L	69065	Steel
6	Slide base R	69066	Steel
7	Finger spacer	69058	Steel
8	Stopper	69041	Steel
9	Rack gear connecting plate	69060	Steel
10	Rivet pusher connecting plate	69055	Steel
11	Rivet pusher	69054	Steel
12	Spring support	69059	Steel
13	Push holding arm	69068	Steel
14	Push holding arm base	69069	Steel
15	Hinge pin	69070	Steel
16	Plunger pin	69072	Steel
17	Push holding arm stopper	69073	Steel
18	Spring washer M 4	20930	Steel
19	Spring washer M 3	12442	Steel
20	Compression spring $\phi 8 \times 70$	69040	Steel
21	On the rivet pusher guide	69053	Steel
22	Hex socket bolt M 3 \times 8	61443	Steel
23	Compression spring $\phi 6 \times 40$	69080	Steel
24	Spring washer M 8	20859	Steel
25	Hexagon nut M 8	65930	Steel
26	Rail mounting base	69076	Stainless
27	Roller	69142	Plastic
28	Compression spring $\phi 3 \times 20$	69141	Steel
29	Supply check sensor	69160	Electronic device
30	Hex socket bolt M 4 \times 8	20918	Steel
31	Stripper bolt	69166	Steel
32	Hexagon nut (thin) M 8	10155	Steel
33	Hex socket bolt M 3 \times 15	61337	Steel
34	Hex socket bolt M 3 \times 5	43736	Steel
35	Separator arm	69064	Steel
36	Passage check sensor mounting base	69153	Steel
37	Pusher plate angle plate	69711	Steel
38	Plain washer M 3	21539	Steel
39	Passage check sensor	69718	Electronic device
40	Spring pin $\phi 2 \times 5$	69878	Steel
41	Rack gear (for rivet push)	69047	Steel
42	Rack gear (for gear rotation)	69048	Steel
43	Rack gear (for separator)	69049	Steel
44	Supply unit connecting shaft	69039	Steel

Parts with circled Index No. are consumable parts.
They should be replaced periodically.

● MODEL CHANGE AND PARTS LIST

Models are changed as shown in the table below due to changes in rivet diameter and frame head diameter. You can check the purchased (in use) model by referring to P23.

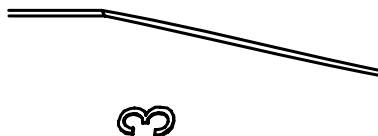
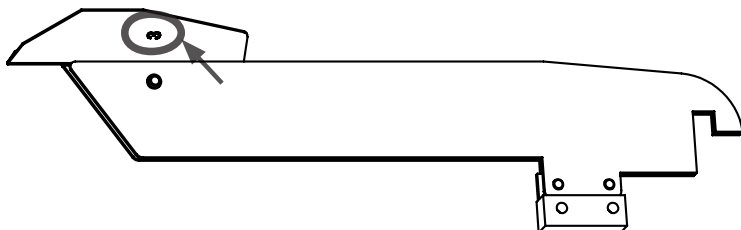
Model number	Model number after converting	Required optional parts		
ARF-810E-	ARF-810E-	Rivet rail unit	Separator unit	Frame head holder
2421	2423	Remaining parts	Remaining parts	Frame head holder(23) 69168
	3221	Rivet rail U(Type4) 69098	Separator U(Type4) 69129	Remaining parts
	3223	Rivet rail U(Type4) 69098	Separator U(Type4) 69129	Frame head holder(23) 69168
	4021	Rivet rail U(Type5) 69099	Separator U(Type5) 69130	Remaining parts
	4023	Rivet rail U(Type5) 69099	Separator U(Type5) 69130	Frame head holder(23) 69168
2423	2421	Remaining parts	Remaining parts	Frame head holder(21) 69154
	3221	Rivet rail U(Type4) 69098	Separator U(Type4) 69129	Frame head holder(21) 69154
	3223	Rivet rail U(Type4) 69098	Separator U(Type4) 69129	Remaining parts
	4021	Rivet rail U(Type5) 69099	Separator U(Type5) 69130	Frame head holder(21) 69154
	4023	Rivet rail U(Type5) 69099	Separator U(Type5) 69130	Remaining parts
3221	2421	Rivet rail U(Type3) 69097	Separator U(Type3) 69128	Remaining parts
	2423	Rivet rail U(Type3) 69097	Separator U(Type3) 69128	Frame head holder(23) 69168
	3223	Remaining parts	Remaining parts	Frame head holder(23) 69168
	4021	Rivet rail U(Type5) 69099	Separator U(Type5) 69130	Remaining parts
	4023	Rivet rail U(Type5) 69099	Separator U(Type5) 69130	Frame head holder(23) 69168
3223	2421	Rivet rail U(Type3) 69097	Separator U(Type3) 69128	Frame head holder(21) 69154
	2423	Rivet rail U(Type3) 69097	Separator U(Type3) 69128	Remaining parts
	3221	Remaining parts	Remaining parts	Frame head holder(21) 69154
	4021	Rivet rail U(Type5) 69099	Separator U(Type5) 69130	Frame head holder(21) 69154
	4023	Rivet rail U(Type5) 69099	Separator U(Type5) 69130	Remaining parts
4021	2421	Rivet rail U(Type3) 69097	Separator U(Type3) 69128	Remaining parts
	2423	Rivet rail U(Type3) 69097	Separator U(Type3) 69128	Frame head holder(23) 69168
	3221	Rivet rail U(Type4) 69098	Separator U(Type4) 69129	Remaining parts
	3223	Rivet rail U(Type4) 69098	Separator U(Type4) 69129	Frame head holder(23) 69168
	4023	Remaining parts	Remaining parts	Frame head holder(23) 69168
4023	2421	Rivet rail U(Type3) 69097	Separator U(Type3) 69128	Frame head holder(21) 69154
	2423	Rivet rail U(Type3) 69097	Separator U(Type3) 69128	Remaining parts
	3221	Rivet rail U(Type4) 69098	Separator U(Type4) 69129	Frame head holder(21) 69154
	3223	Rivet rail U(Type4) 69098	Separator U(Type4) 69129	Remaining parts
	4021	Remaining parts	Remaining parts	Frame head holder(21) 69154

◇ How to check current model number.

Check the rivet diameter and frame head holder diameter to be used in ① to ③, and apply it to the model in ④.

① Rivet rail unit

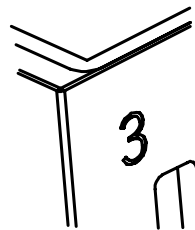
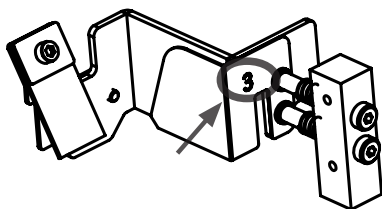
Displays the system corresponding to the rivet diameter used.



Enlargement of the display part

② Separator unit

Displays the system corresponding to the rivet diameter used.

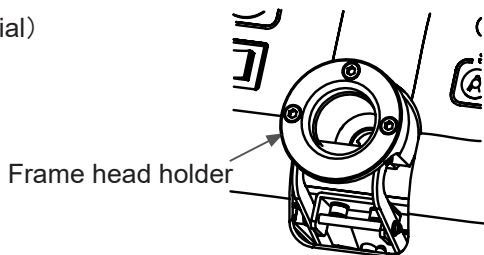


Enlargement of the display part

③ Frame head holder (Identification by color of material)

Frame head holder $\phi 21$ → Blue

Frame head holder $\phi 23$ → Black



④ Apply the confirmed size to the model name below.

* ① and ② are the same display.

ARF-810E-□-□

Rivet diameter

24	2.4mm (Type 3)
32	3.2mm (Type 4)
40	4.0mm (Type 5)

Frame head holder diameter

21	21mm
23	23mm

MEMO

A series of horizontal dotted lines for writing.

