

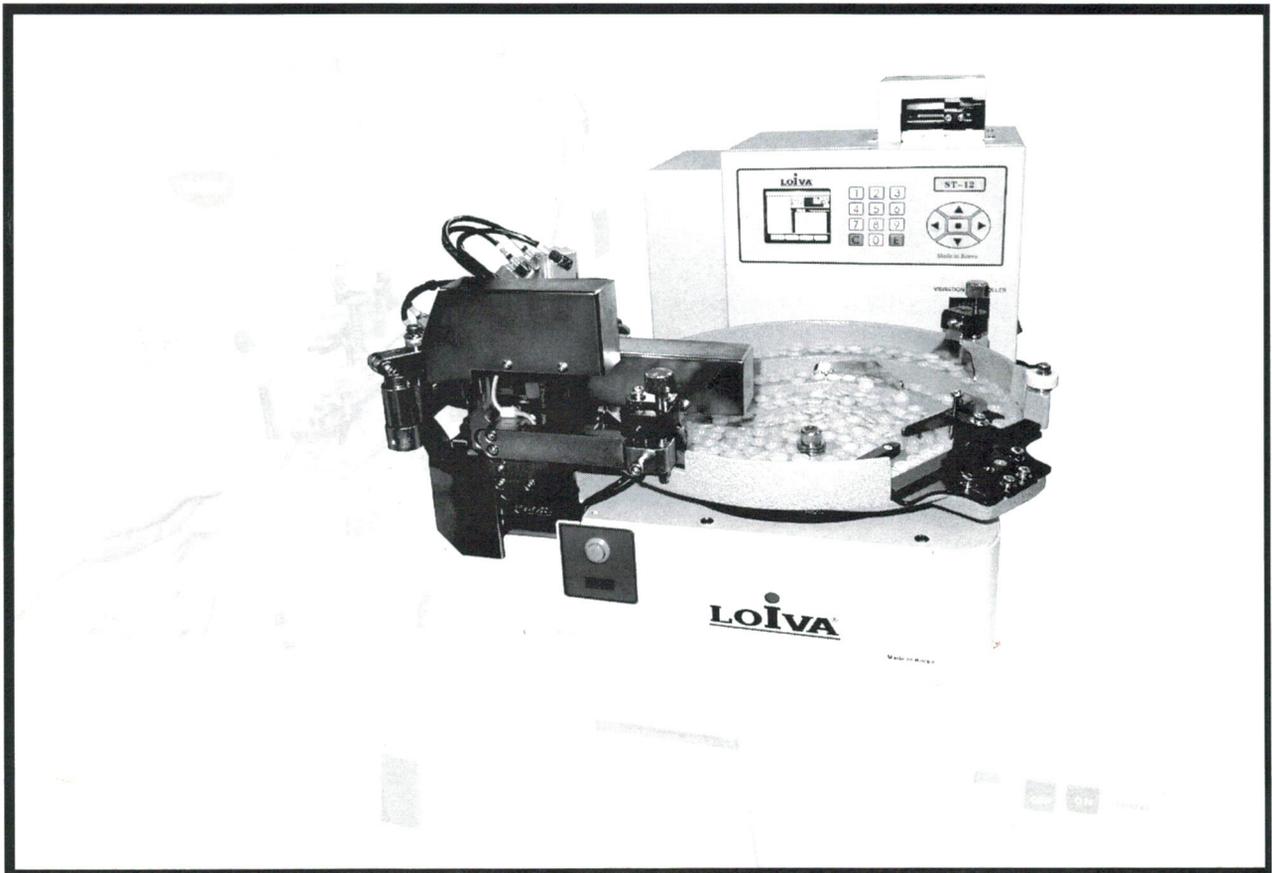
LOIVA[®]

USER MANUAL & PARTS LIST

단추 공급기

BUTTON FEEDER MACHINE

ST-12





- 최고의 품질! Easy to operate!
- 간단한 방식! Tight knotting!
 - 원활한 공급! Best feeder!

포기없는 추진력... Do our best for you...

최선을 다하는 로이바... We, LOIVA COMPANY.

저희 로이바는 수 많은 봉제 현장의 문제점을 정확히 파악하고 효율적인 생산을 위해 봉제현장의 오랜 경험을 가진 기술진들과 국내 최고의 기계들로 새 바람을 일으켜 왔습니다.

보이지 않는 부품 하나에도 정성을 다하며 정확한 공정과 제품관리로 폐사에서 생산되는 단추뿌리감기 기계, 포기 없는 추진력과 철저한 장인정신으로 최선을 다해 제조되는 로이바의 제품인 단추 공급기를 자신 있게 권해 드리며 제품의 원활한 공급과 완벽한 A/S 로 소비자의 관심에 보답하고 항상 발전하는 로이바가 되겠습니다.

먼저 단추 공급기를 구입하여 주셔서 감사 드립니다. 사용 설명서 대로 사용하시면 최고의 품질을 생산할 수 있습니다.

Our LOIVA has correctly found out numerous problems happening in the field. For an effective production, we have blown a new trend into the sewing-machine industry by the exclusive development without imitation in cooperation with engineers having longtime experience at the sewing field and the domestic machine development team.

With our full attention to an invisible part, correct process lining and quality control, the button feeder machine, we confidently recommend our products manufactured with the best efforts in ceaseless thrust and thoroughgoing craftsmanship.

We, LOIVA will be a developing company constantly and repay the consumer's attention with fluent supply of products and perfect service after sales.

We thank you for purchasing our button feeder machine ST-12. Please read following the manual before using the machine for best quality.

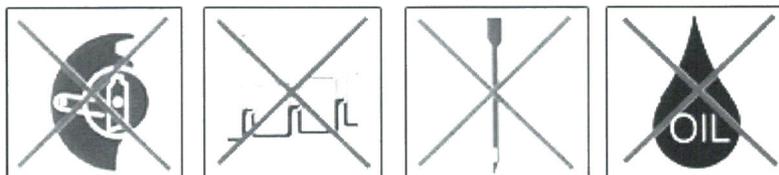
1) 사양(Specifications)

- 면적(장/폭/고) (Dimension) : 550 X 430 X 370 mm
- 무게(Weight) : 45kg
- 에어 소비량(Air consumption) : 0.32 l/Min
- 에어 압력(Air pressure) : 5~6 kg/cm²
- 전원볼트(Power) : Free voltage 100V~240V
- 사이클(Cycle) : Free Cycle 50/60Hz

2) 주요사항(Important notes)

문제나 손실을 피하기 위해서는 아래의 사용설명서를 관찰하는 것이 절대적으로 필요합니다. (To avoid trouble or damage it is absolutely necessary to observe the following instructions).

- 기계를 시행하기 이전에 우선 완전히 청소를 하고 혹시 기계에 먼지가 있으면 먼지도 제거해야 합니다. (Before you put the machine into operation for the first time clean it thoroughly, remove all dust which has accumulated on it.)
- 모터가 나타내는 전압과 전압을 확인하시기 바랍니다. 만일 그렇지 않으면 플러그를 기계에 꽂지 말아야 합니다. (Check to make sure line voltage agrees with the voltage indicated on the motor rating plate. If it is does not, be sure not to plug in the machine.)
- 정확한 압력을 체크해야 합니다. (Check you have the correct pneumatic line pressure.)



3) 안전 교육(Safety instructions)



was designed for. In safety instructions



devices it is equipped



All guards must be in position before starting



Do not operate this equipment unless technically qualified by person who



Unauthorised Persons not to use this machine.



This machine must not be dismantled or cleaned unless it has been switched off and unplugged



CAUTION Risk of Electric shock

maintenance work the actuating the master switch

engaged or the



pneumatic devices pneumatic supply source

- 본 기계를 설계상의 목적 외 타 용도로 사용하지 말아야 합니다. 기계가 다른 버전으로 변환된 경우에는 가능한 모든 안전교육을 깊이 고려해야 합니다.

The machine must only be used for the purpose it was designed for. In case of conversion into another version all valid safety instructions have to be considered.

- 안전장치가 갖추어져 있지 않다면 이 기계를 작동 하지 말아야 합니다.

Do not operate this machine without the safety devices it is equipped with.

- 그러므로 기계는 교육을 받은 사람만이 작동 및 관리하여야 합니다.

The machine must only be switched on and operated by persons who have been instructed accordingly.

- 부품 교환이나 정비 작업은 주 스위치가 끊어진 상태이거나 메인 플러그가 제거된 상태에서 이루어져야 합니다.

When exchanging parts and when doing maintenance work the machine must be disconnected either by actuating the master switch or by removing the mains plug.

- 기계의 비상시(이상시) 연동하거나 스위치를 꺼야 합니다. When threading machine Emergency Stop must be engaged or the machine switched off.

- 압축공기 장치를 보존하거나 수리할 때는 기계를 공기제공의 근원이 끊어진 상태에서 이행여야 합니다.

When carrying out maintenance or repair work on pneumatic devices the machine must be disconnected from the pneumatic supply source.

- 그러므로 이 기계의 전기장치 일을 할 때는 전기 담당자나 그에 알맞은 교육을 받은 사람이 이행해야 합니다. Work on electrical equipment on this machine must only be carried out by electricians or other persons who have instructed accordingly.

ST-12 BUTTON FEEDER MACHINE

콘트롤러 전원을 키면 원점복귀 후 작업대기.

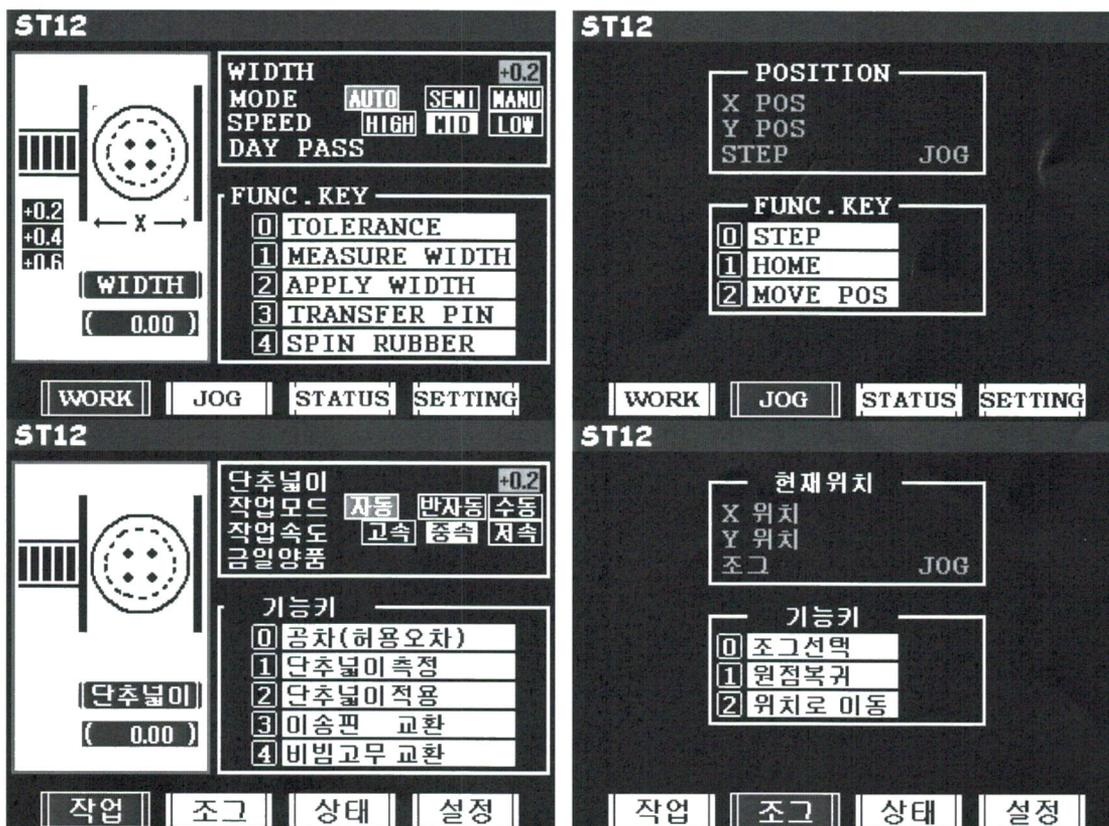
When you turn on the switch, ready the working after return the starting point.

4개의 페이지로 구성되어 있고 “•”키를 누르면 페이지 전환을 하며, 정상시는 “WORK”과 “JOG”페이지만 보여주고 “0”또는 “•”키를 누르고 전원을 키면 모든 페이지를 보여줍니다.

Please press the “•”key if you want other page. Normal pages are the “WORK” and “JOG”. But when you turn on the switch, show the all pages status pressing the “0” or “•”key. Total 4 pages, “WORK”, “JOG”, “STATUS”, “SETTING”.

“0”키를 누르고 전원을 키면 모든 데이터가 초기화되면서 원점복귀를 하지 않고 모든 페이지를 보여주고, “•”키를 누르고 전원을 키면 데이터를 초기화만 하지 않고 동일 기능을 수행합니다.

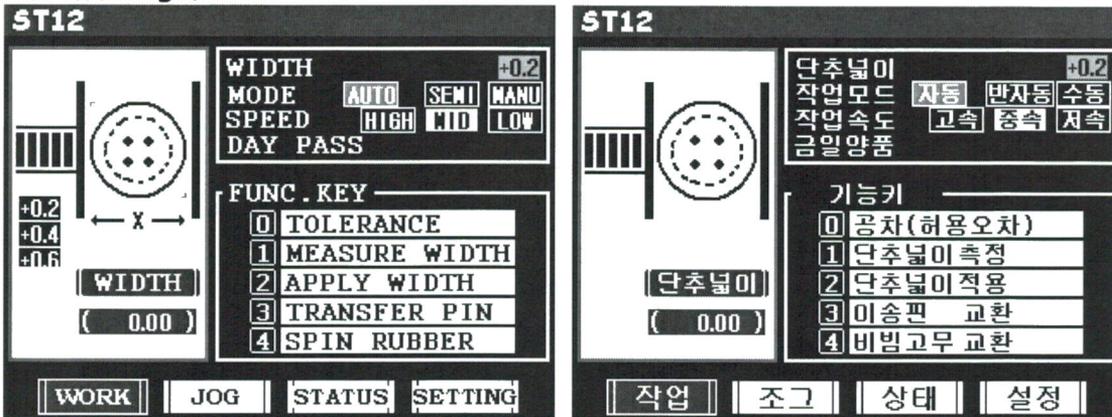
When turn on the switch, status pressing the “0”key, become a initialization, but do not return the starting point. When turn on the switch, status pressing the “•”key, do not become a initialization.



“1”키를 누르고 전원을 키면 사용하는 언어가 영어나 한국어로 선택됩니다.

Langue selection is the “1”key. When turn on the switch, status pressing the “1”key, change the langue.

사용법(Usage)



- 작업모드(working mode)

◀/▶ 키를 눌러서 모드를 변경하며 자동모드는 진동기를 사용하여 단추를 정렬하여 미싱신호에 의해서 단추를 공급하고, 반자동모드는 미싱신호가 들어와도 단추를 공급하지 않고 BUTTON SUPPLY S/W(수동공급 스위치)가 눌러 질 때만 단추를 공급.

수동모드는 진동기와 공급기를 사용하지 않고 손으로 미싱에 단추를 공급하는 모드.

You can change the mode using the ◀/▶ key, automatic mode arrange the button by vibration device, feeding by sewing machine signal. Semi automatic mode do not feed the button, need the pressing the switch. Handling mode is the feeding button by the hand.

자동모드에서 미싱신호에 의해서 공급을 하면 금일양품 수량이 증가하고,

BUTTON SUPPLY S/W(수동공급 스위치)에 의해서 공급을 하면 금일불량 수량이 증가.

Automatic mode – increasing today production

Using the button supply switch – increasing the faulty production

▲/▼ 키를 누르면 작업속도가 변경.

You can control working speed by using ▲/▼ key.

※ “.” 키를 눌러서 페이지 변경할 때 자동모드 사용하고 있다면 진동기를 off하고 약 7초간의 지연시간이 발생됨.

When you change the page, using the automatic mode, happen the delay time about 7sec after turning off the vibration device.

- 단추넓이 설정 (수동) adjust the button width(handling)

대기상태에서 “E”키를 누르고 ▲/▼를 눌러 WIDTH 항목에서 단추넓이 값을 변경 후 “E”키를 눌러 저장. (값을 변경해도 바로 적용되지는 않음.)

Press the “E” key in status waiting → change the button width → press the “E” become a saving

- 단추넓이 설정 (자동) **adjust the button width(automatic)**

측정기가 비워져 있는지 확인 후 “1”키를 눌러서 측정모드로 진입 후 단추를 측정기에 넣고, “2”키를 누르면 자동으로 원점복귀하고 이송로의 단추들을 제거하고,

다시 “2” 키를 누르면 측정한 값으로 단추의 이송로가 변경됨.

※ 자동모드 사용시 진동기를 off하고 약 7초간의 지연시간이 발생됨.

check the there are noting in a measuring instrument → press the press the “1”key → put in the button in a measuring instrument → When you press the “2”key, automatic return starting point and remove the button on moving button road → press the “2”key all change

※ When you use the automatic mode, happen the delay time about 7sec after turning off the vibration device.

- 이송핀 교환(exchange the supply pin)

“3”키를 누르면 이송핀 교환 위치로 이동하고, 교환 후 “3”키를 누르면 복귀함.

※ 자동모드 사용시 진동기를 off하고 약 7초간의 지연시간이 발생됨.

When press the “3”key, supply pin move a exchange location. Press “3”key return after exchange.

※ When you use the automatic mode, happen the delay time about 7sec after turning off the vibration device.

- 비빔고무 교환(exchange the spinning robber)

“4”키를 누르면 교환 위치로 이동하고, “4”키를 누르면 비빔대가 회전하고 교환 후

“4”키를 누르면 복귀함.

※ 자동모드 사용시 진동기를 off하고 약 7초간의 지연시간이 발생됨.

Press “4”key, move to the exchange location → press “4”key, spinning load turn round → exchange the spinning robber → press “4”key, return

※ When you use the automatic mode, happen the delay time about 7sec after turning off the vibration device.

- 공급기의 불량단추 제거. Remove the faulty button

“C”키를 누르면 공급기 내부가 열리고, 불량단추를 제거 후 “C” 키를 누르면 원래의 상태로 복귀.

Press the “C”key, open the inside → press the “C”key, become a status origin after remove the faulty button

- 작업수량 확인 및 삭제 (check the working count and delete)

press“1”key about 2sec – expression DAY PASS (delete is “C”key about 2sec)

press“2”key about 2sec – expression DAY REJECT (delete is “C”key about 2sec)

press“3”key about 2sec – expression SUM PASS (delete is “C”key about 2sec)

press“4”key about 2sec – expression SUM REJECT (delete is “C”key about 2sec)

키 설명(function key)

특수키(special key) : NEED THE POWER OFF/ON

| | |
|---|--|
| 0 | 데이터 초기화 DATA INITIALIZATION |
| 1 | 언어 선택 (한글/영어) CHANGE THE LANGUAGE (KOREAN/ENGLISH) |
| • | 테스트모드 TEST MODE |

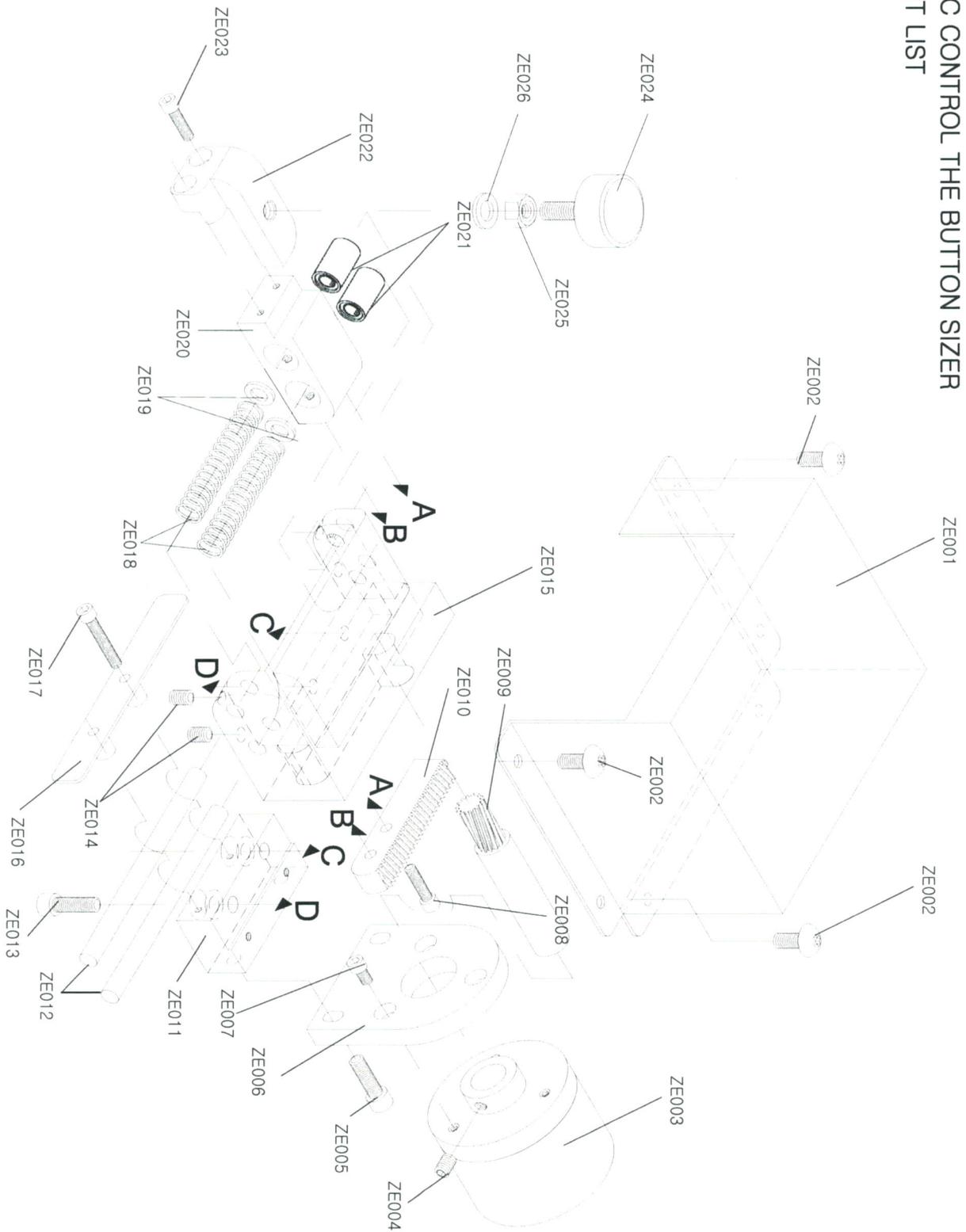
작업 페이지(WORK PAGE)

| | |
|----------|---|
| • | 페이지 변경(CHANGE THE PAGE) |
| ◀/▶ | 작업모드 WORKING MODE : (AUTOMATIC/SEMI/MANU) |
| ▲/▼ | 작업속도 WORKING SPEED : (HIGH/MID/LOW) |
| E | 편집과 저장EDITE AND SAVE : BUTTON WIDTH(MANU), AUTOMATIC TIME |
| 0 | 단추의 공차를 설정. |
| 1 | 단추넓이 측정. MEASURING THE BUTTON WIDTH |
| 2 | 단추넓이 조절 CONTROL BUTTON WIDTH (EXCHAGNE) |
| 3 | 이송핀 교환 EXCHANGE BUTTON SUPPLY PIN |
| 4 | 비빔고무 교환 EXCHANGE SPINNING ROBBER |
| C | 공급기의 불량단추 제거 REMOVE THE FAULTY BUTTON |
| 1 (2sec) | 금일 양품 EXPRESSION 'DAY PASS' (DELETE -"C"KEY 2SEC) |
| 2 (2sec) | 금일 불량 EXPRESSION 'DAY REJECT'(DELETE -"C"KEY 2SEC) |
| 3 (2sec) | 누적 양품 EXPRESSION 'SUM PASS' (DELETE -"C"KEY 2SEC) |
| 4 (2sec) | 누적 불량 EXPRESSION 'SUM REJECT'(DELETE -"C"KEY 2SEC) |

조그 페이지(JOG PAGE)

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|-----|------------------------------|
| • | 페이지 변경 CHANGE THE PAGE |
| 0 | 조그 선택 SELLECTION JOG |
| 1 | 시작점 복귀 RETURN STARTING POINT |
| 2 | 회전이동 MOVING THE LOCATION |
| ◀/▶ | X축 AXIS 'X' |
| ▲/▼ | Y축 AXIS 'Y' |

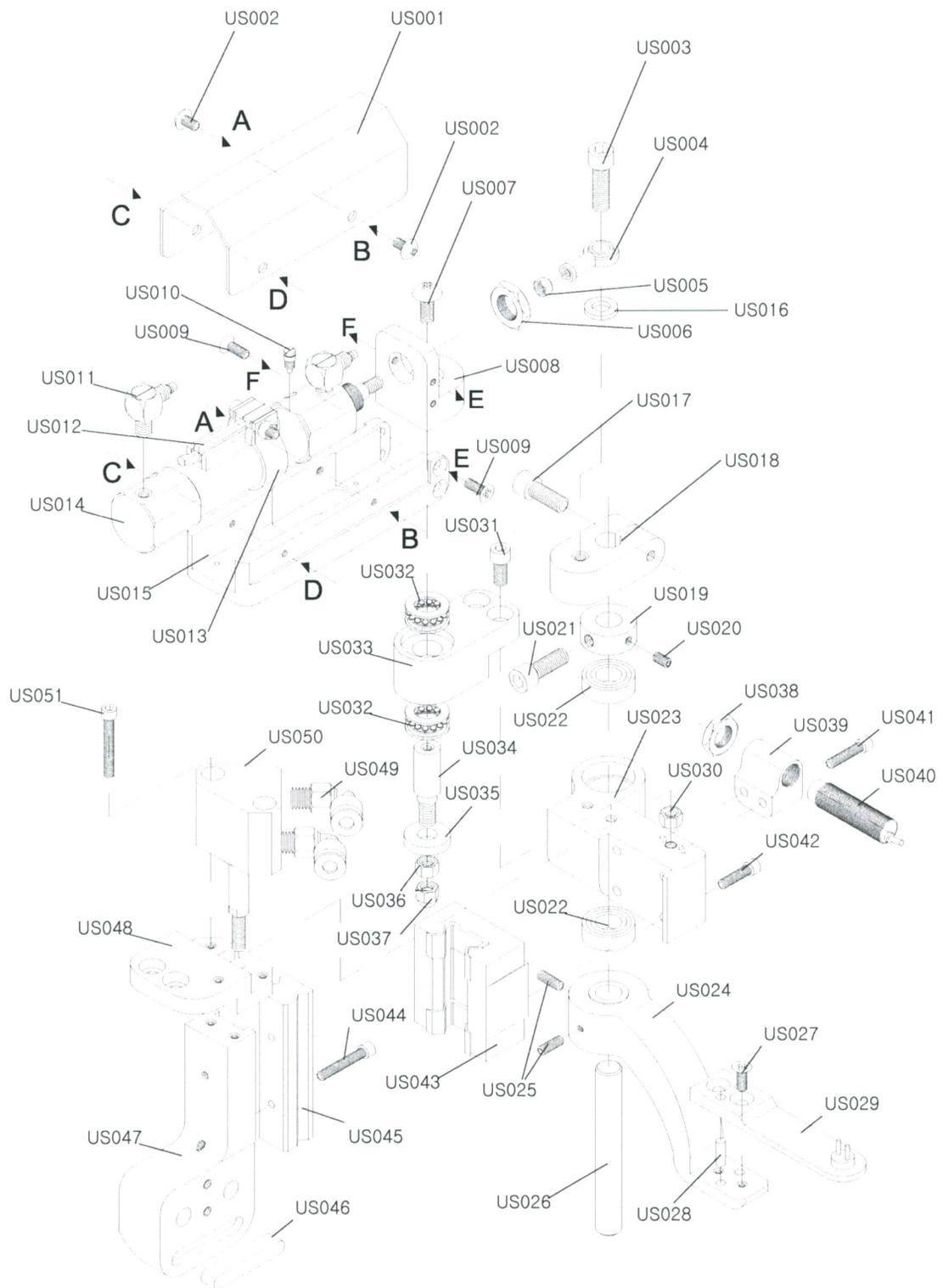
**AUTOMATIC CONTROL THE BUTTON SIZER
ASS'Y PART LIST**



| No. | Part No. | Part Name |
|-----|----------|------------------------|
| 1 | ZE001 | SYNCRONIZER COVER |
| 2 | ZE002 | TRUS FIXING BOLT |
| 3 | ZE003 | SYNCRONIZER |
| 4 | ZE004 | HEADNESS FIXING BOLT |
| 5 | ZE005 | ALLEN FIXING BOLT |
| 6 | ZE006 | SYNCRONIZER BRACKET |
| 7 | ZE007 | ALLEN FIXING BOLT |
| 8 | ZE008 | ALLEN FIXING BOLT |
| 9 | ZE009 | SYNCRONIZER GEAR |
| 10 | ZE010 | BUTTON SIZER FLAT GEAR |
| 11 | ZE011 | SYNCRONIZER HOLDER |
| 12 | ZE012 | BUTTON SIZER ROD |
| 13 | ZE013 | ALLEN FIXING BOLT |
| 14 | ZE014 | HEADNESS FIXING BOLT |
| 15 | ZE015 | BUTTON SIZER TRAY |
| 16 | ZE016 | COVER |
| 17 | ZE017 | ALLEN FIXING BOLT |
| 18 | ZE018 | BUTTON SIZER SPRING |
| 19 | ZE019 | WASHER |
| 20 | ZE020 | BUSHING HOLDER |
| 21 | ZE021 | BUSHING BEARING |
| 22 | ZE022 | SIZE MEASUREMENT |
| 23 | ZE023 | ALLEN FIXING BOLT |
| 24 | ZE024 | HANDLE |
| 25 | ZE025 | NUT |
| 26 | ZE026 | WASHER |
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SPINNING & TRANSFER DEVICE ASS'Y PART LIST



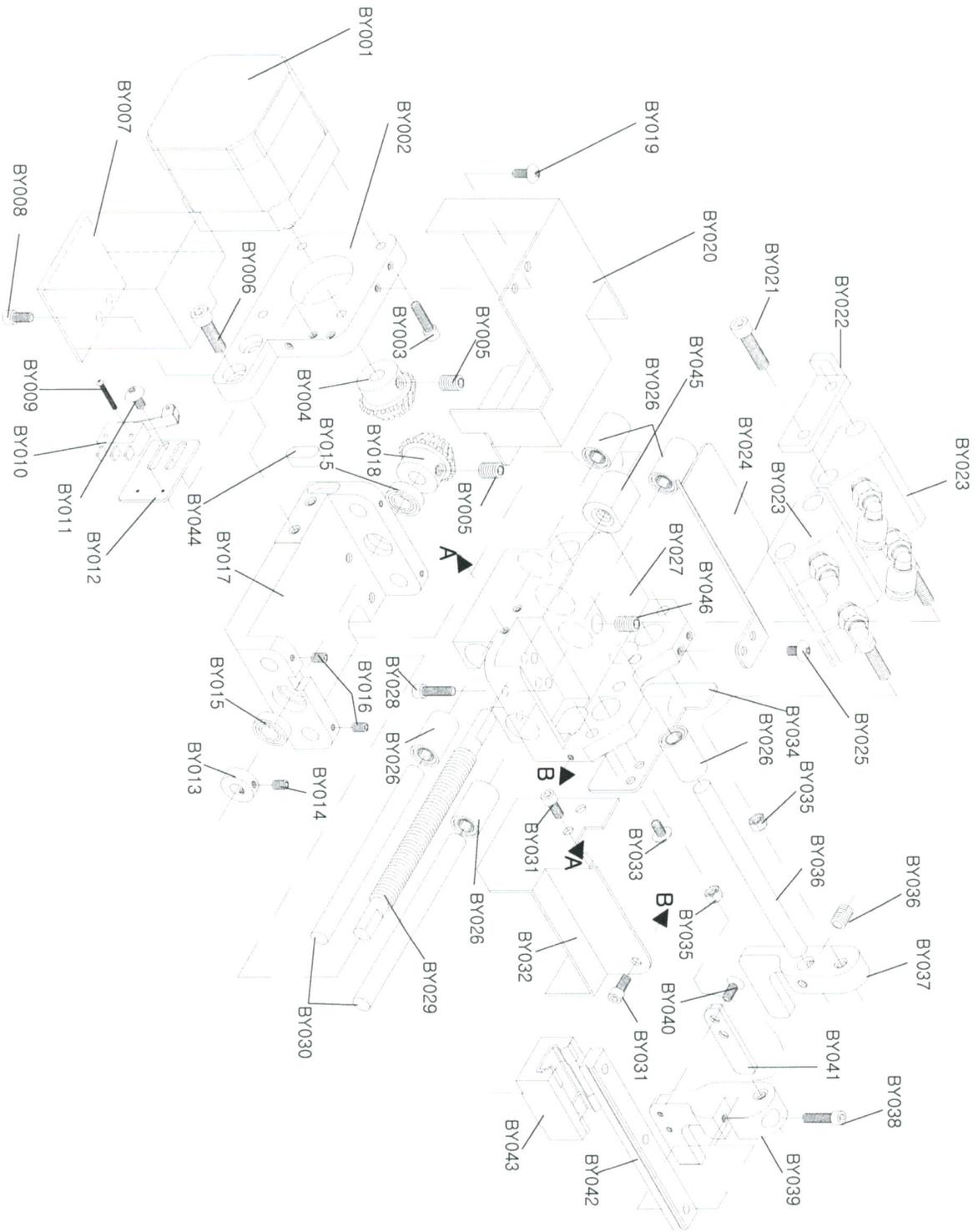
THE RUNWAY OF BUTTON ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|------------------------|
| 1 | WY001 | BUSHING BEARING |
| 2 | WY002 | BEARING HOLDER |
| 3 | WY003 | BUTTON GUIDE |
| 4 | WY004 | ALLEN FIXING BOLT |
| 5 | WY005 | BUTTON GUIDE |
| 6 | WY006 | ROD |
| 7 | WY007 | RING |
| 8 | WY008 | HEADNESS FIXING BOLT |
| 9 | WY009 | BEARING |
| 10 | WY010 | GEAR BOX |
| 11 | WY011 | BUTTON SIZER NUT |
| 12 | WY012 | ALLEN FIXING BOLT |
| 13 | WY013 | GEAR |
| 14 | WY014 | FLAT HOLDER |
| 15 | WY015 | FLAT |
| 16 | WY016 | FLAT FIXING BOLT |
| 17 | WY017 | BUSHING BEARING |
| 18 | WY018 | BEARING HOLDER |
| 19 | WY019 | ALLEN FIXING BOLT |
| 20 | WY020 | BUTTON GUIDE |
| 21 | WY021 | PILLAR |
| 22 | WY022 | TRUS FIXING BOLT |
| 23 | WY023 | COVER |
| 24 | WY024 | RING |
| 25 | WY025 | HEADNESS FIXING BOLT |
| 26 | WY026 | ALLEN FIXING BOLT |
| 27 | WY027 | SENSOR NUT |
| 28 | WY028 | SENSOR |
| 29 | WY029 | HOLDER (EXCEPT SENSOR) |
| 30 | WY030 | ALLEN FIXING BOLT |
| 31 | WY031 | ALLEN FIXING BOLT |
| 32 | WY032 | MOTOR HOLDER |
| 33 | WY033 | MOTOR |
| 34 | WY034 | ALLEN FIXING BOLT |
| 35 | WY035 | BUTTON SIZER NUT |
| 36 | WY036 | ALLEN FIXING BOLT |
| 37 | WY037 | COVER |

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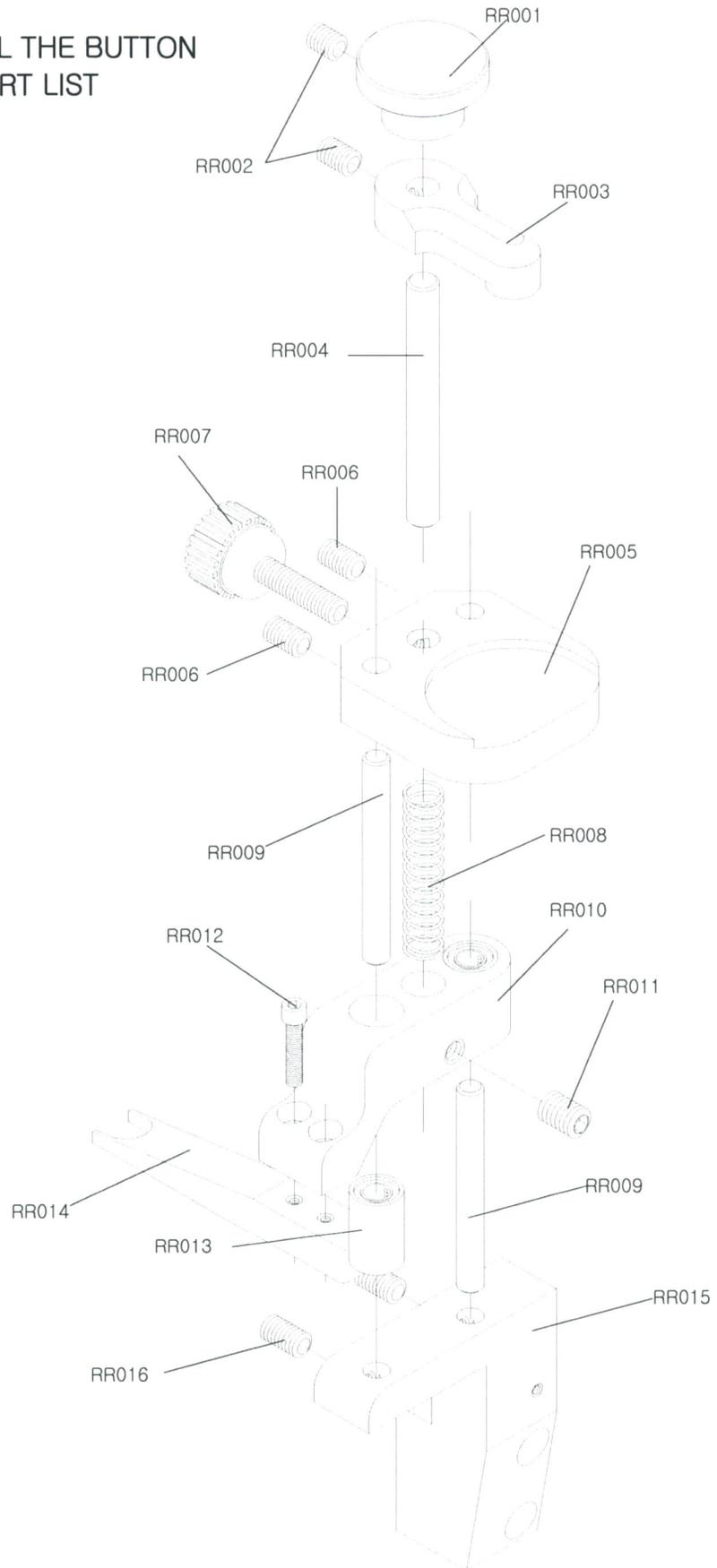
STANDBY THE BUTTON ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|----------------------|
| 1 | BY001 | MOTOR |
| 2 | BY002 | MOTOR HOLDER |
| 3 | BY003 | ALLEN FIXING BOLT |
| 4 | BY004 | GEAR |
| 5 | BY005 | HEADNESS FIXING BOLT |
| 6 | BY006 | ALLEN FIXING BOLT |
| 7 | BY007 | COVER |
| 8 | BY008 | ALLEN FIXING BOLT |
| 9 | BY009 | SWITCH HOLDING BOLT |
| 10 | BY010 | SWITCH |
| 11 | BY011 | TRUS FIXING BOLT |
| 12 | BY012 | SWITCH BRACKET |
| 13 | BY013 | RING |
| 14 | BY014 | HEADNESS FIXING BOLT |
| 15 | BY015 | BEARING |
| 16 | BY016 | HEADNESS FIXING BOLT |
| 17 | BY017 | MOVING GEAR HOLDER |
| 18 | BY018 | GEAR |
| 19 | BY019 | TRUS FIXING BOLT |
| 20 | BY020 | COVER |
| 21 | BY021 | ALLEN FIXING BOLT |
| 22 | BY022 | CYLINDER HOLDER |
| 23 | BY023 | CYLINDER |
| 24 | BY024 | COVER |
| 25 | BY025 | TRUX FIXING BOLT |
| 26 | BY026 | BUSHING BEARING |
| 27 | BY027 | TWIN CYLINDER HOLDER |
| 28 | BY028 | ALLEN FIXING BOLT |
| 29 | BY029 | GEAR |
| 30 | BY030 | SHAFT |
| 31 | BY031 | ALLEN FIXING BOLT |
| 32 | BY032 | COVER |
| 33 | BY033 | TRUS FIXING BOLT |
| 34 | BY034 | COVER |
| 35 | BY035 | NUT |
| 36 | BY036 | SHAFT |
| 37 | BY037 | FIRST BUTTON GATE |

| No. | Part No. | Part Name |
|-----|----------|-----------------------|
| 38 | BY038 | ALLEN FIXING BOLT |
| 39 | BY039 | LAST BUTTON GATE |
| 40 | BY040 | FLAT FIXING BOLT |
| 41 | BY041 | BUTTON GATE PROTECTOR |
| 42 | BY042 | RAIL |
| 43 | BY043 | RAIL BLOCK |
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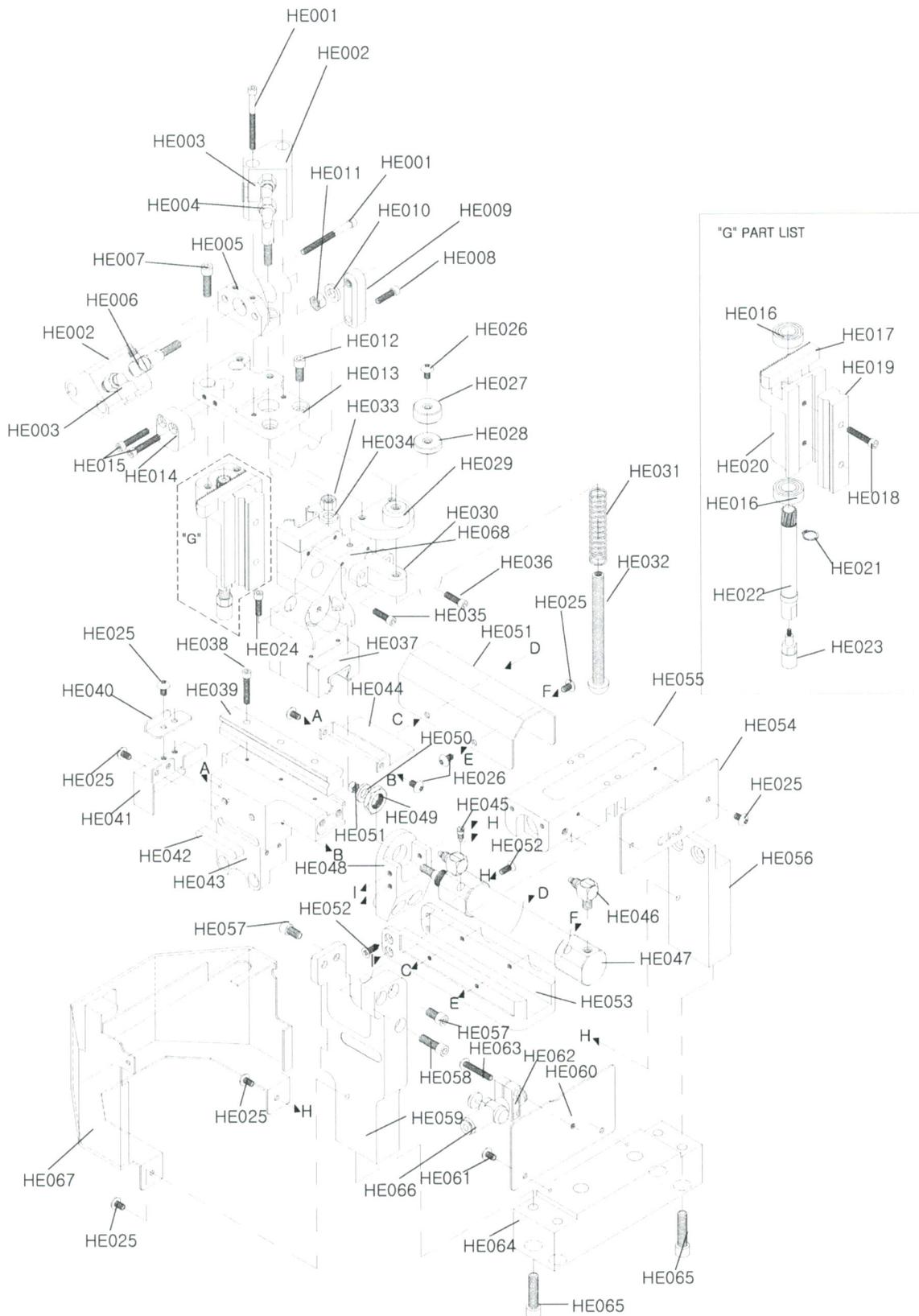
**AUTOMATIC CONTROL THE BUTTON
THICKNESS ASS'Y PART LIST**



| No. | Part No. | Part Name |
|-----|----------|------------------------|
| 1 | RR001 | GRIP |
| 2 | RR002 | HEADNESS FIXING BOLT |
| 3 | RR003 | BUTTON THICKNESS SIZER |
| 4 | RR004 | SHAFT |
| 5 | RR005 | BUTTON TRAY |
| 6 | RR006 | HEADNESS FIXING BOLT |
| 7 | RR007 | HANDLE BOLT |
| 8 | RR008 | SPRING |
| 9 | RR009 | SHAFT |
| 10 | RR010 | BUTTON GUIDE HOLDER |
| 11 | RR011 | HEADNESS FIXING BOLT |
| 12 | RR012 | ALLEN FIXING BOLT |
| 13 | RR013 | BUSHING BEARING |
| 14 | RR014 | BUTTON THICKNESS GUIDE |
| 15 | RR015 | THICKNESS ASS'Y HOLDER |
| 16 | RR016 | HEADNESS FIXING BOLT |
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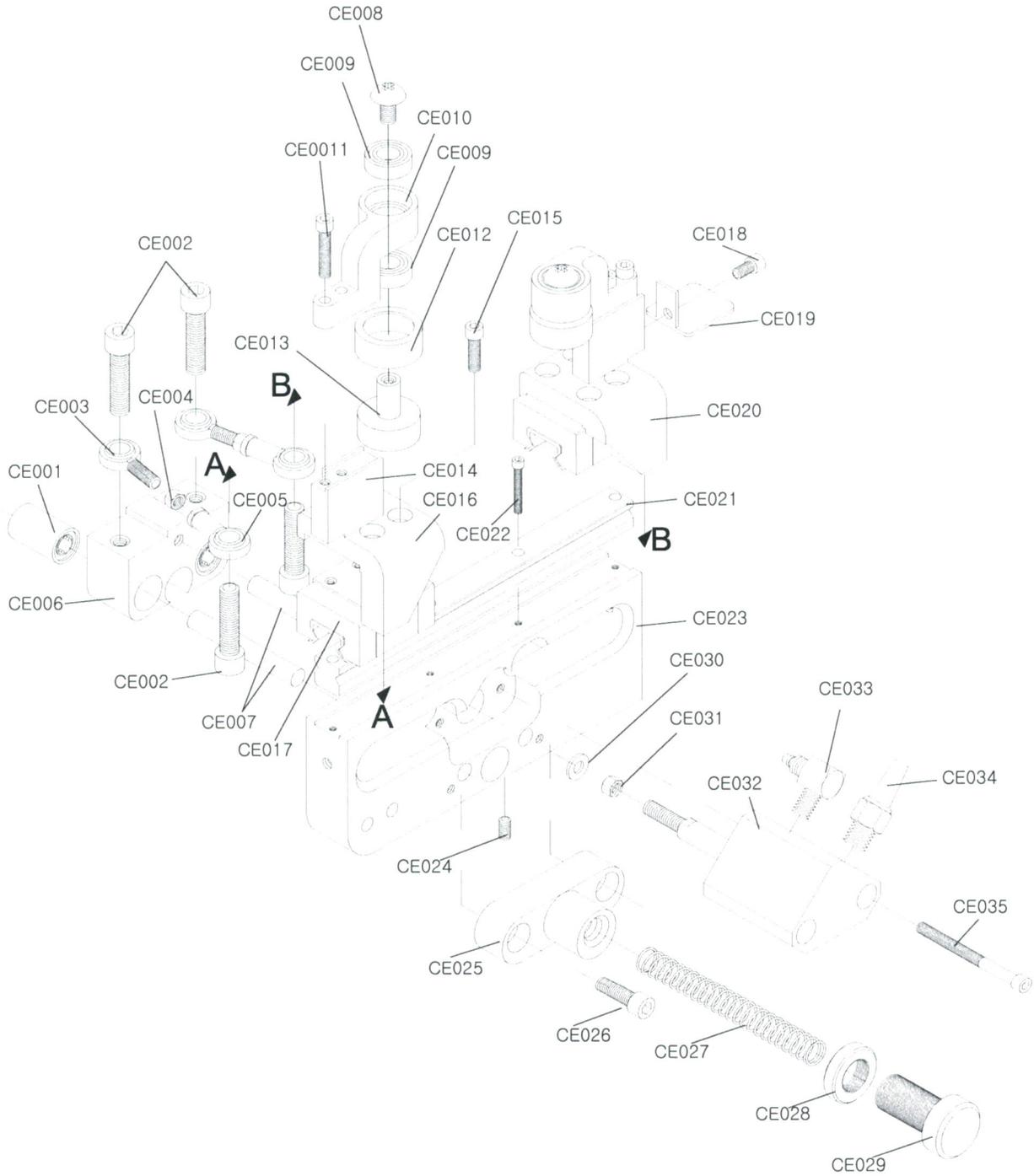
THE BODY ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|------------------------|
| 1 | HE001 | ALLEN FIXING BOLT |
| 2 | HE002 | CYLINDER |
| 3 | HE003 | AIR NIPPLE |
| 4 | HE004 | AIR SILENCER |
| 5 | HE005 | CYLINDER HOLDER |
| 6 | HE006 | TWO TOUCH NIPPLE |
| 7 | HE007 | ALLEN FIXING BOLT |
| 8 | HE008 | ALLEN FIXING BOLT |
| 9 | HE009 | HOLDER |
| 10 | HE010 | WASHER |
| 11 | HE011 | NUT |
| 12 | HE012 | ALLEN FIXING BOLT |
| 13 | HE013 | SPINNING DEVICE HOLDER |
| 14 | HE014 | HOLDER |
| 15 | HE015 | ALLEN FIXING BOLT |
| 16 | HE016 | BEARING |
| 17 | HE017 | FLAT GEAR |
| 18 | HE018 | ALLEN FIXING BOLT |
| 19 | HE019 | RAIL |
| 20 | HE020 | RAIL BLOCK |
| 21 | HE021 | SNAP RING |
| 22 | HE022 | SHAFT GEAR |
| 23 | HE023 | SPINNING RUBBER |
| 24 | HE024 | ALLEN FIXING BOLT |
| 25 | HE025 | TRUS FIXING BOLT |
| 26 | HE026 | TRUS FIXING BOLT |
| 27 | HE027 | HANDLE NUT |
| 28 | HE028 | TENSION CONTROL NUT |
| 29 | HE029 | TENSION BRACKET |
| 30 | HE030 | HOLDER |
| 31 | HE031 | SPRING |
| 32 | HE032 | SHAFT BOLT |
| 33 | HE033 | NUT |
| 34 | HE034 | WASHER |
| 35 | HE035 | ALLEN FIXING BOLT |
| 36 | HE036 | ALLEN FIXING BOLT |
| 37 | HE037 | RAIL BLOCK |

| No. | Part No. | Part Name |
|-----|----------|------------------------|
| 38 | HE038 | ALLEN FIXING BOLT |
| 39 | HE039 | RAIL |
| 40 | HE040 | COVER |
| 41 | HE041 | COVER |
| 42 | HE042 | MOMO KEY |
| 43 | HE043 | RAIL HOLDER |
| 44 | HE044 | COVER |
| 45 | HE045 | AIR CUSHION CONTROLER |
| 46 | HE046 | TWO TOUCH NIPPLE |
| 47 | HE047 | CYLINDER |
| 48 | HE048 | CYLINDER HOLDER |
| 49 | HE049 | NUT |
| 50 | HE050 | WASHER |
| 51 | HE051 | NUT |
| 52 | HE052 | FLAT FIXING BOLT |
| 53 | HE053 | CYLINDER CRADLE |
| 54 | HE054 | PLATE COVER |
| 55 | HE055 | GEAR BOX |
| 56 | HE056 | HOLDER |
| 57 | HE057 | ALLEN FIXING BOLT |
| 58 | HE058 | ALLEN FIXING BOLT |
| 59 | HE059 | PILLAR OF BODY |
| 60 | HE060 | PLATE COVER |
| 61 | HE061 | TRUS FIXING BOLT |
| 62 | HE062 | SPEED CONTROLER HOLDER |
| 63 | HE063 | HOLDER FIXING BOLT |
| 64 | HE064 | BODY SUPPORT |
| 65 | HE065 | ALLEN FIXING BOLT |
| 66 | HE066 | SPEED CONTROLER |
| 67 | HE067 | COVER |
| 68 | HE068 | RAIL BLOCK HOLDER |
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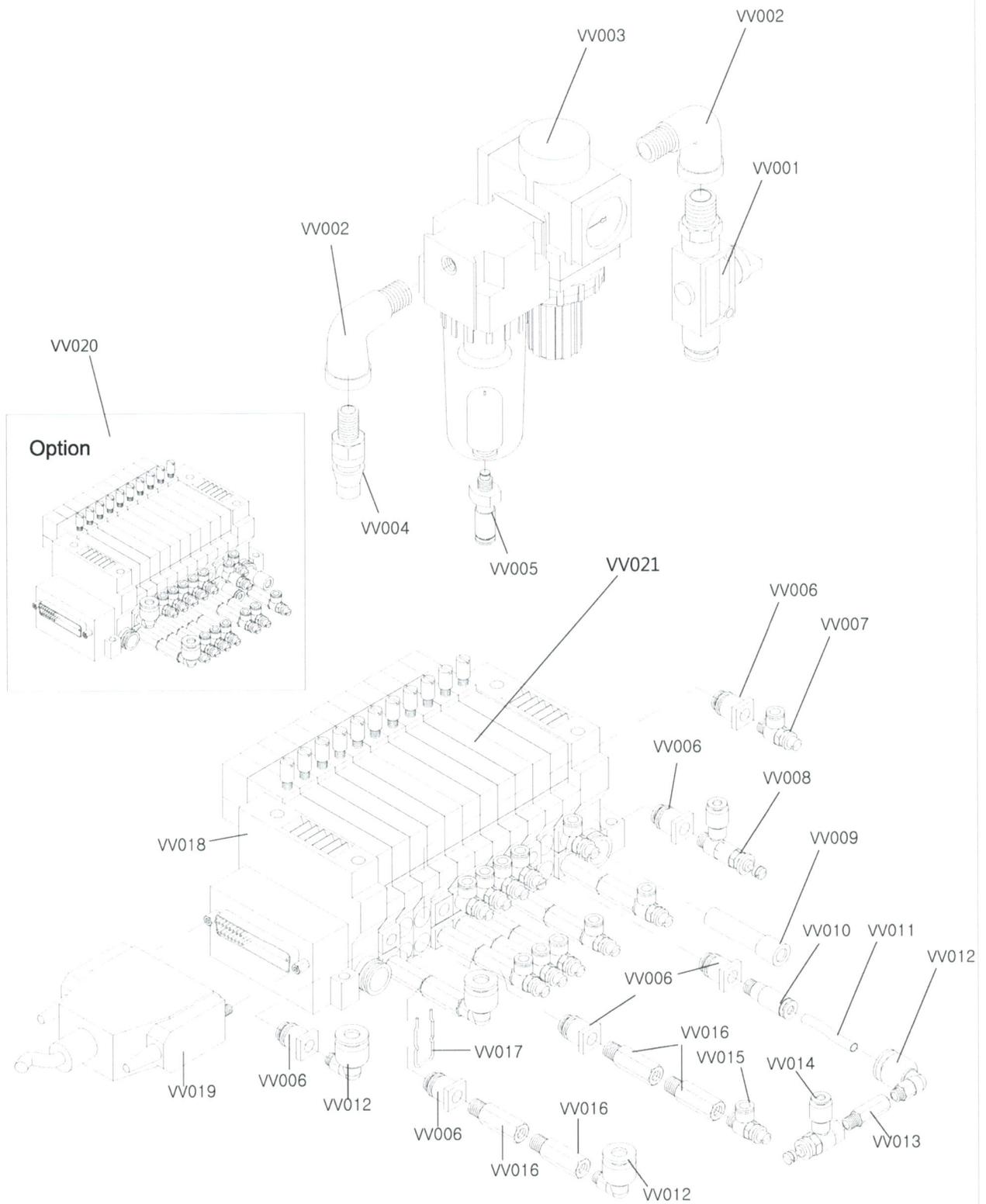
**AUTOMATIC CONTROL THE BUTTON
CENTER ASS'Y PART LIST**



| No. | Part No. | Part Name |
|-----|----------|------------------------|
| 1 | CE001 | BUSHING BEARING |
| 2 | CE002 | ALLEN FIXING BOLT |
| 3 | CE003 | ROD BEARING BOLT |
| 4 | CE004 | NUT |
| 5 | CE005 | ROD BEARING |
| 6 | CE006 | BUSHING BEARING HOLDER |
| 7 | CE007 | SHAFT |
| 8 | CE008 | RAIL BLOCK |
| 9 | CE009 | TRUS FIXING BOLT |
| 10 | CE010 | AUTOMATIC SIZER HOLDER |
| 11 | CE011 | ALLEN FIXING BOLT |
| 12 | CE012 | RUBBER COVER |
| 13 | CE013 | AUTOMATIC SIZER RING |
| 14 | CE014 | SIZER SUPPORT |
| 15 | CE015 | ALLEN FIXING BOLT |
| 16 | CE016 | LEFT BLOCK HOLDER |
| 17 | CE017 | RAIL BLOCK |
| 18 | CE018 | ALLEN FIXING BOLT |
| 19 | CE019 | COVER |
| 20 | CE020 | RIGHT BLOCK ASS'Y |
| 21 | CE021 | RAIL |
| 22 | CE022 | ALLEN FIXING BOLT |
| 23 | CE023 | RAIL HOLDER |
| 24 | CE024 | HEADNESS FIXING BOLT |
| 25 | CE025 | SPRING TENSION BRACKET |
| 26 | CE026 | ALLEN FIXING BOLT |
| 27 | CE027 | SPRING |
| 28 | CE028 | NUT |
| 29 | CE029 | HANDLE BOLT |
| 30 | CE030 | WASHER |
| 31 | CE031 | NUT |
| 32 | CE032 | CYLINDER |
| 33 | CE033 | TWO TOUCH NIPPLE |
| 34 | CE034 | AIR SILENCER |
| 35 | CE035 | ALLEN FIXING BOLT |
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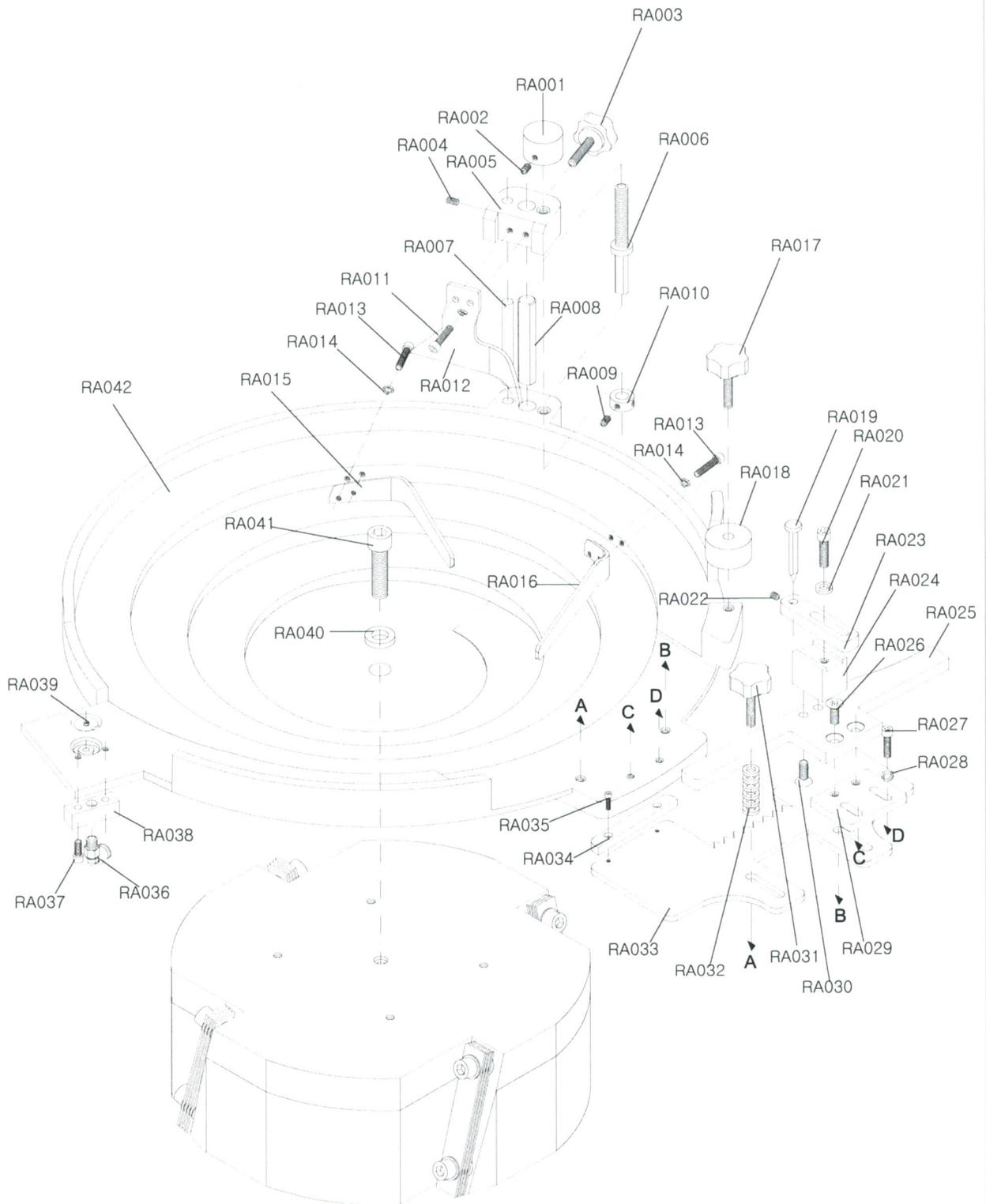
**SOLENOID VALVE & FILTER
ASS'Y PART LIST**



| No. | Part No. | Part Name |
|-----|----------|--------------------------|
| 1 | VV001 | HAND VALVE |
| 2 | VV002 | ELBOW NIPPLE |
| 3 | VV003 | FILTER & REGULATOR |
| 4 | VV004 | AIR COUPLER |
| 5 | VV005 | NIPPLE |
| 6 | VV006 | FITTING |
| 7 | VV007 | SPEED CONTROLER NIPPLE |
| 8 | VV008 | REDUCING VALVE |
| 9 | VV009 | BLANKING PLUG |
| 10 | VV010 | NIPPLE |
| 11 | VV011 | AIR HOSE |
| 12 | VV012 | ELBOW NIPPLE |
| 13 | VV013 | SUPPORT |
| 14 | VV014 | REDUCING VALVE |
| 15 | VV015 | SPEED CONTROLER NIPPLE |
| 16 | VV016 | SUPPORT |
| 17 | VV017 | SNAP RING |
| 18 | VV018 | SOLENOID VALVE & BLOCK |
| 19 | VV019 | D-SUB CABLE |
| 20 | VV020 | 10 VALVES ASS'Y (OPTION) |
| 21 | VV021 | SOLENOID VALVE |
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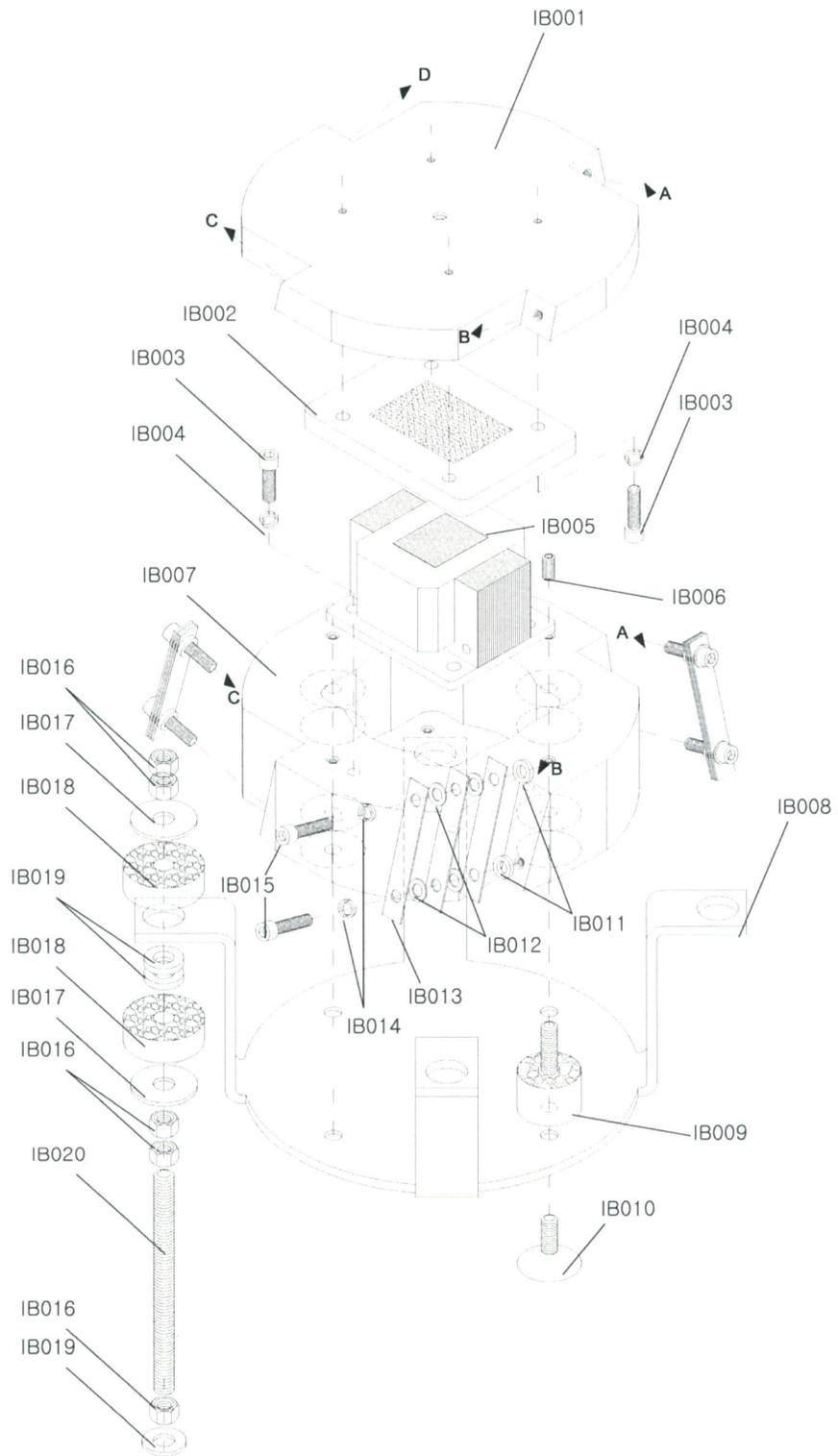
**BOWL & ACCESSORIES
ASS'Y PART LIST**



| No. | Part No. | Part Name |
|-----|----------|--------------------------|
| 1 | RA001 | HANDLE |
| 2 | RA002 | HEADNESS FIXING BOLT |
| 3 | RA003 | HANDLE BOLT |
| 4 | RA004 | HEADNESS FIXING BOLT |
| 5 | RA005 | HOLDER |
| 6 | RA006 | SHAFT BOLT |
| 7 | RA007 | SHAFT |
| 8 | RA008 | SHAFT |
| 9 | RA009 | HEADNESS FIXING BOLT |
| 10 | RA010 | RING |
| 11 | RA011 | ALLEN FIXING BOLT |
| 12 | RA012 | BUTTON GUIDE |
| 13 | RA013 | ALLEN FIXING BOLT |
| 14 | RA014 | WASHER |
| 15 | RA015 | BUTTON GUIDE |
| 16 | RA016 | BUTTON GUIDE |
| 17 | RA017 | HAND BOLT |
| 18 | RA018 | BUTTON GATE |
| 19 | RA019 | THICKNESS PIN |
| 20 | RA020 | ALLEN FIXING BOLT |
| 21 | RA021 | WASHER |
| 22 | RA022 | HEADNESS FIXING BOLT |
| 23 | RA023 | PIN HOLDER |
| 24 | RA024 | THICKNESSER HOLDER |
| 25 | RA025 | BUTTON SELECTOR |
| 26 | RA026 | FLAT FIXING BOLT |
| 27 | RA027 | ALLEN FIXING BOLT |
| 28 | RA028 | WASHER |
| 29 | RA029 | BUTTON SELECTOR SUPPORT |
| 30 | RA030 | FLAT FIXING BOLT |
| 31 | RA031 | HANDLE BOLT |
| 32 | RA032 | SPRING |
| 33 | RA033 | SAWTOOTH BUTTON SELECTOR |
| 34 | RA034 | BUTTON HELP GUIDE |
| 35 | RA035 | ALLEN FIXING BOLT |
| 36 | RA036 | ELBOW NIPPLE |
| 37 | RA037 | ALLEN FIXING BOLT |

| No. | Part No. | Part Name |
|-----|----------|-------------------|
| 38 | RA038 | AIR BLOCK |
| 39 | RA039 | WIND COVER |
| 40 | RA040 | WASHER |
| 41 | RA041 | ALLEN FIXING BOLT |
| 42 | RA042 | BOWL |
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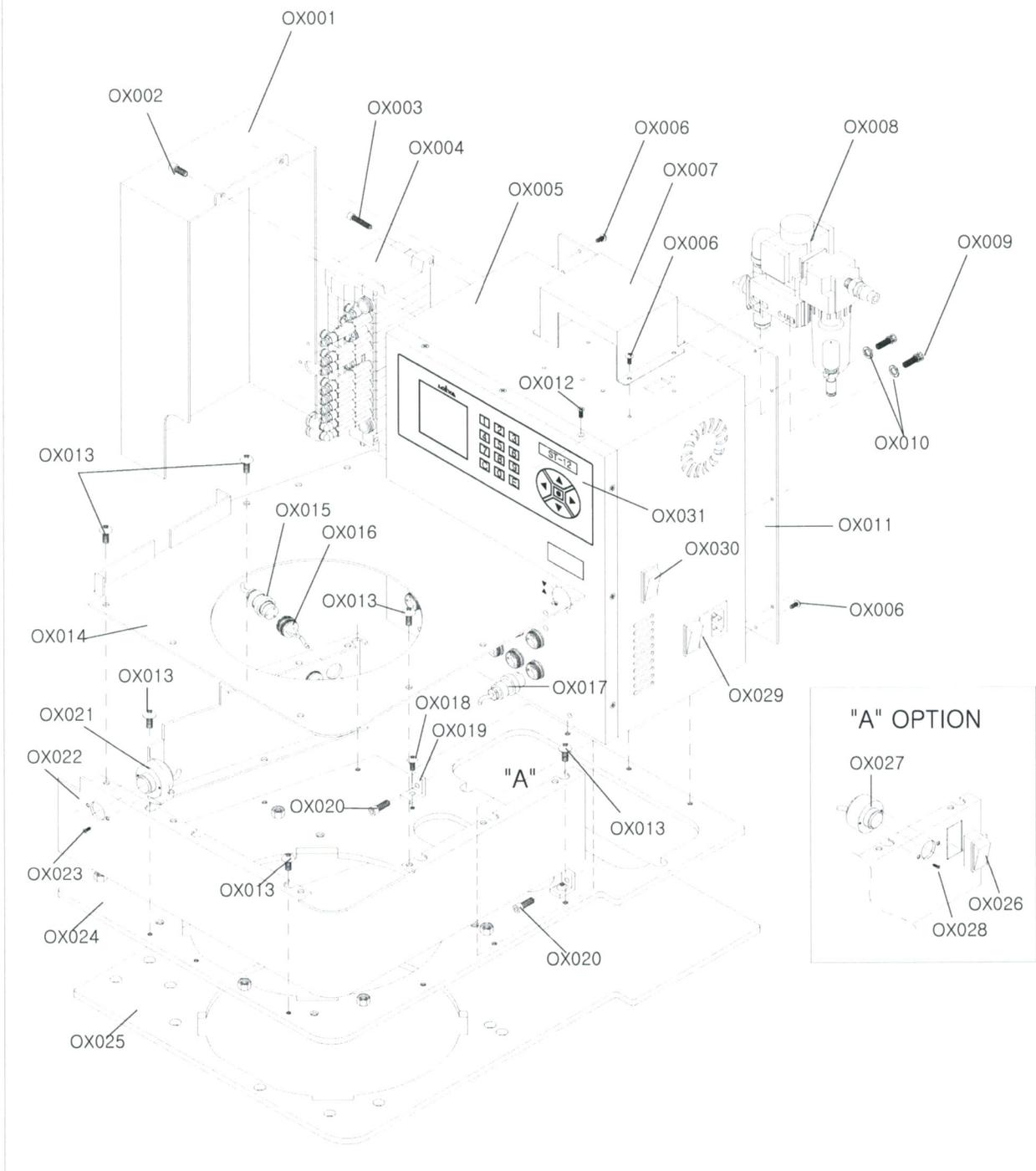
VIBRATER ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|----------------------|
| 1 | IB001 | VIBRATING WING |
| 2 | IB002 | VIBRATOR COIL PLATE |
| 3 | IB003 | ALLEN FIXING BOLT |
| 4 | IB004 | SPRING WASHER |
| 5 | IB005 | VIBRATOR COIL |
| 6 | IB006 | HEADNESS FIXING BOLT |
| 7 | IB007 | VIBRATOR HOME |
| 8 | IB008 | VIBRATOR HOLDER |
| 9 | IB009 | RUBBER CUSHION BOLT |
| 10 | IB010 | FLAT FIXING BOLT |
| 11 | IB011 | WASHER |
| 12 | IB012 | WASHER |
| 13 | IB013 | PLATE SPRING |
| 14 | IB014 | SPRING WASHER |
| 15 | IB015 | ALLEN FIXING BOLT |
| 16 | IB016 | NUT |
| 17 | IB017 | WASHER |
| 18 | IB018 | SPONGE CUSHION |
| 19 | IB019 | RUBBER WASHER |
| 20 | IB020 | SHAFT BOLT |
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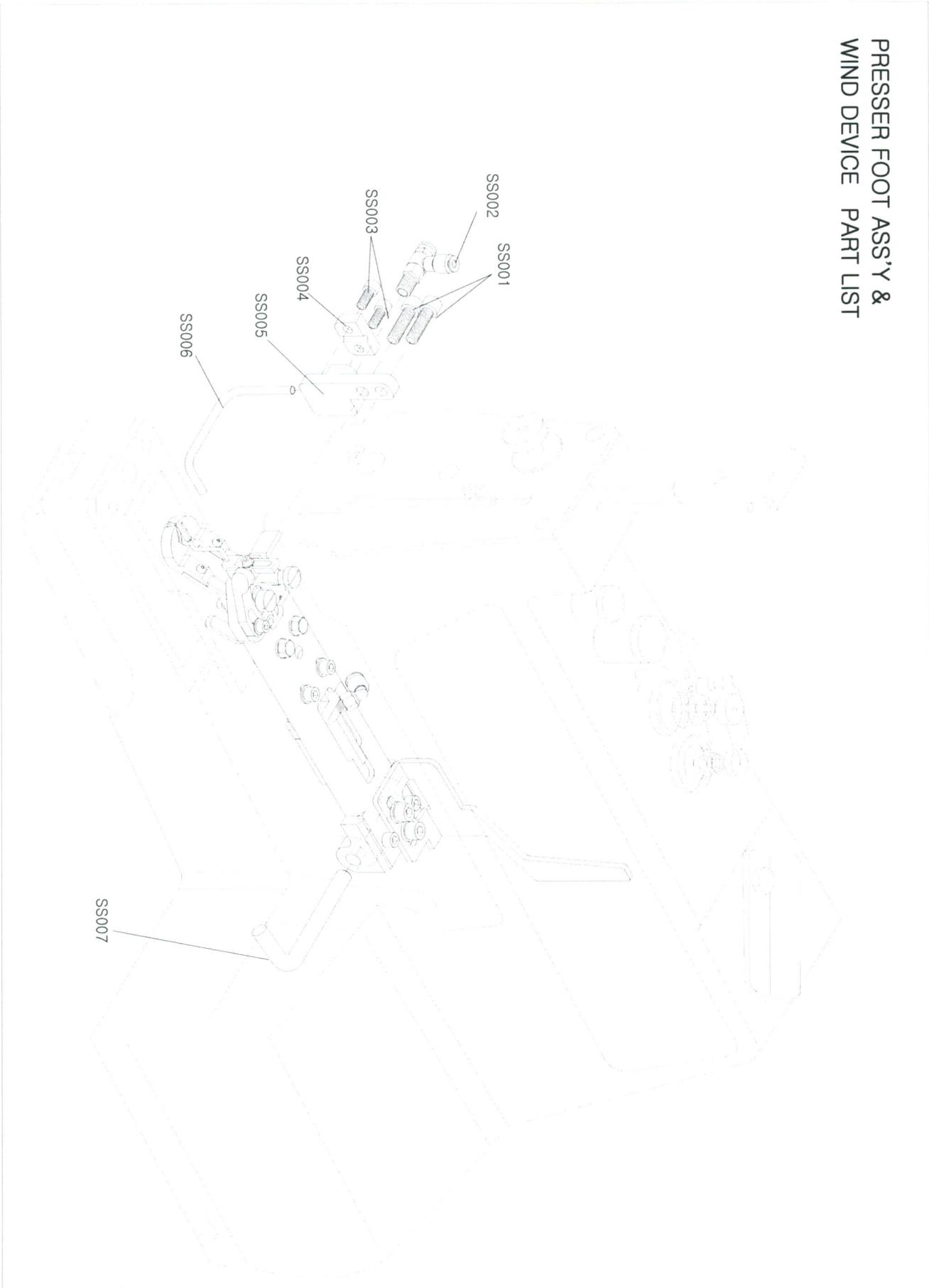
CONTROL BOX ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|---------------------------|
| 1 | OX001 | SOLENOID VALVE COVER |
| 2 | OX002 | ALLEN FIXING BOLT |
| 3 | OX003 | ALLEN FIXING BOLT |
| 4 | OX004 | SOLENOID VALVE ASS'Y |
| 5 | OX005 | CONTROL BOX |
| 6 | OX006 | TRUS FIXING BOLT |
| 7 | OX007 | ENCORDER COVER |
| 8 | OX008 | FILTER & REGULATOR ASS'Y |
| 9 | OX009 | ALLEN FIXING BOLT |
| 10 | OX010 | WASHER |
| 11 | OX011 | CONTROL BOX BACK COVER |
| 12 | OX012 | FLAT FIXING BOLT |
| 13 | OX013 | TRUS FIXING BOLT |
| 14 | OX014 | VIBRATOR COVER |
| 15 | OX015 | RING CONNECTOR MALE |
| 16 | OX016 | RING CONNECTOR FEMALE |
| 17 | OX017 | RING CONNECTOR CABLE |
| 18 | OX018 | TRUS FIXING BOLT |
| 19 | OX019 | HOLDER |
| 20 | OX020 | ALLEN FIXING BOLT |
| 21 | OX021 | SWITCH |
| 22 | OX022 | VIBRATOR SIDE COVER |
| 23 | OX023 | FLAT FIXING BOLT |
| 24 | OX024 | BASE PLATE |
| 25 | OX025 | BASE RUBBER PLATE |
| 26 | OX026 | COLOR SENSOR POWER SWITCH |
| 27 | OX027 | COLOR CONTROL SWITCH |
| 28 | OX028 | FLAT FIXING BOLT |
| 29 | OX029 | CONTROL BOX MAIN SWITCH |
| 30 | OX030 | VIBRATOR POWER SWITCH |
| 31 | OX031 | MEMBRAIN SWITCH |
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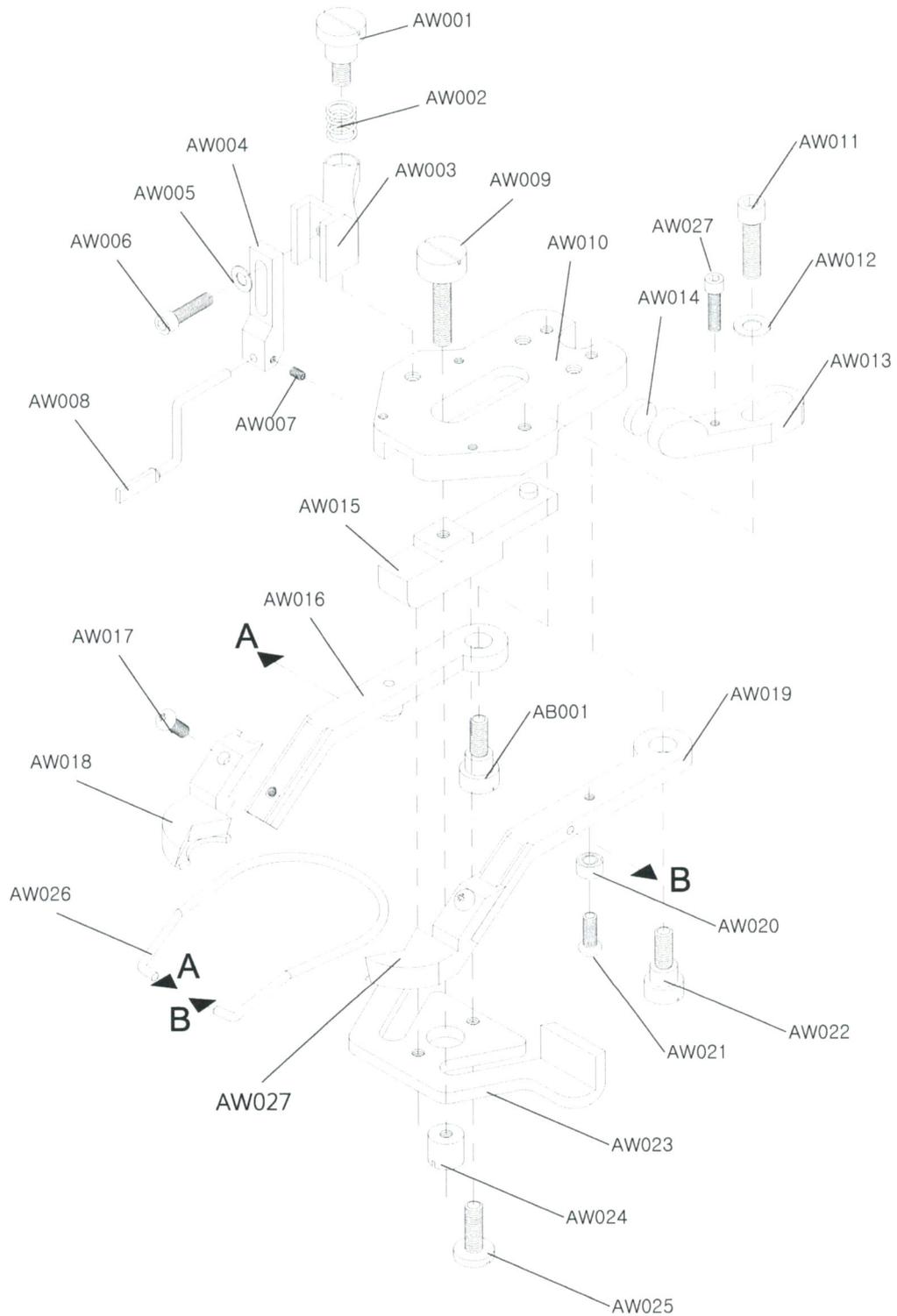
**PRESSER FOOT ASS'Y &
WIND DEVICE PART LIST**



| No. | Part No. | Part Name |
|-----|----------|------------------------|
| 1 | SS001 | ALLEN FIXING BOLT |
| 2 | SS002 | SPEED CONTROLER NIPPLE |
| 3 | SS003 | ALLEN FIXING BOLT |
| 4 | SS004 | AIR PIPE HOLDER COVER |
| 5 | SS005 | AIR PIPE HOLDER BLOCK |
| 6 | SS006 | AIR PIPE |
| 7 | SS007 | HOLDER KEY |
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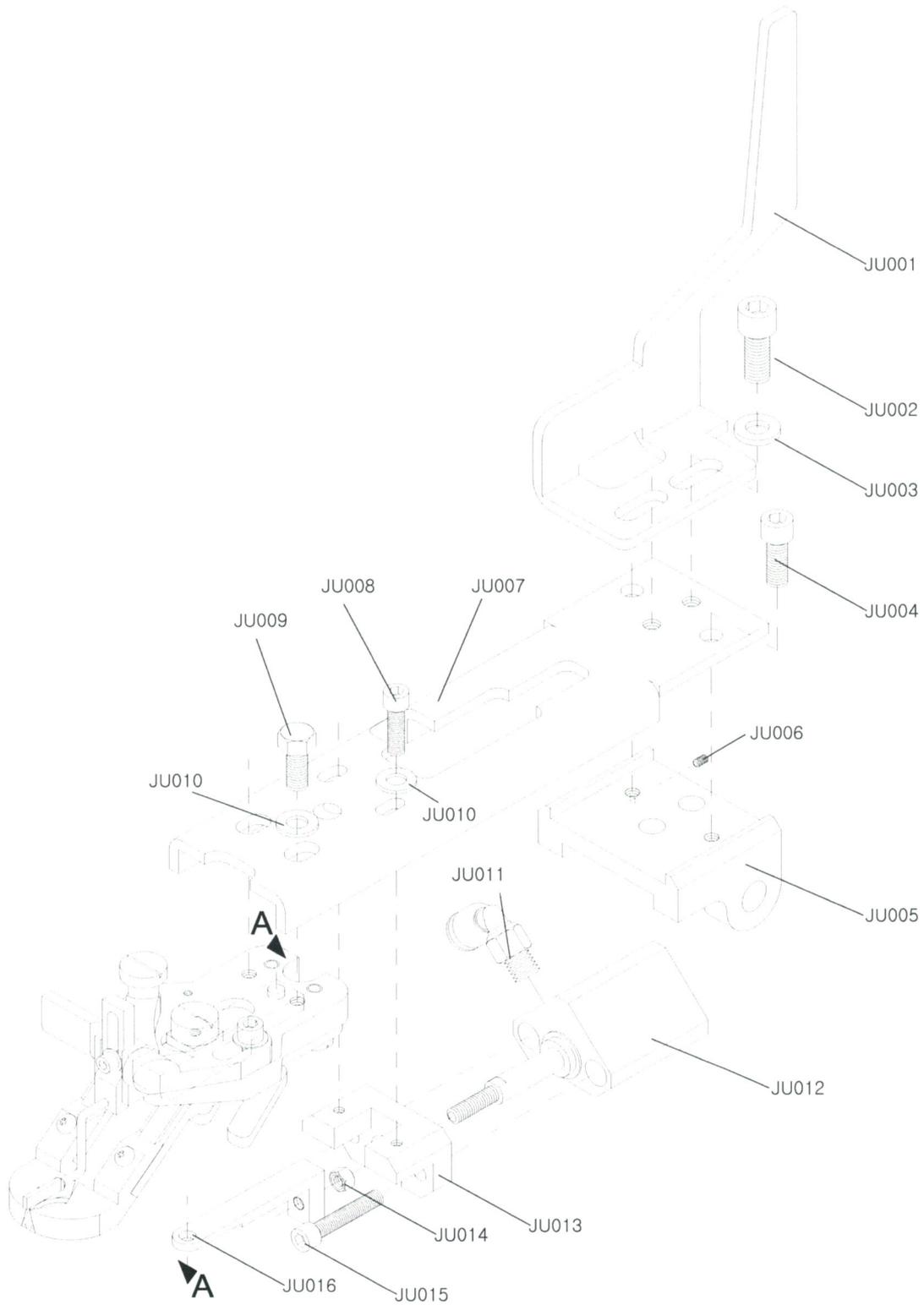
PRESSER FOOT CLAW ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|--------------------------|
| 1 | AW001 | FIXING BOLT |
| 2 | AW002 | SPRING |
| 3 | AW003 | POSTING DEVICE HOLDER |
| 4 | AW004 | POSTING DEVICE |
| 5 | AW005 | WASHER |
| 6 | AW006 | ALLEN FIXING BOLT |
| 7 | AW007 | HEADNESS FIXING BOLT |
| 8 | AW008 | POSTING PIN |
| 9 | AW009 | FIXING BOLT |
| 10 | AW010 | CLAMP HOLDER |
| 11 | AW011 | ALLEN FIXING BOLT |
| 12 | AW012 | WASHER |
| 13 | AW013 | MAGNETIC HOLER |
| 14 | AW014 | MAGNET |
| 15 | AW015 | CLAMP OPENING ASSISTANCE |
| 16 | AW016 | SAWTOOTH ARM RIGHT SIDE |
| 17 | AW017 | TRUS FIXING BOLT |
| 18 | AW018 | SAWTOOTH RIGHT SIDE |
| 19 | AW019 | SAWTOOTH ARM LEFT SIDE |
| 20 | AW020 | BEARING |
| 21 | AW021 | BOLT |
| 22 | AW022 | FIXING BOLT |
| 23 | AW023 | CLAMP OPENER |
| 24 | AW024 | NUT |
| 25 | AW025 | BOLT |
| 26 | AW026 | SPRING |
| 27 | AW027 | SAWTOOTH LEFT SIDE |
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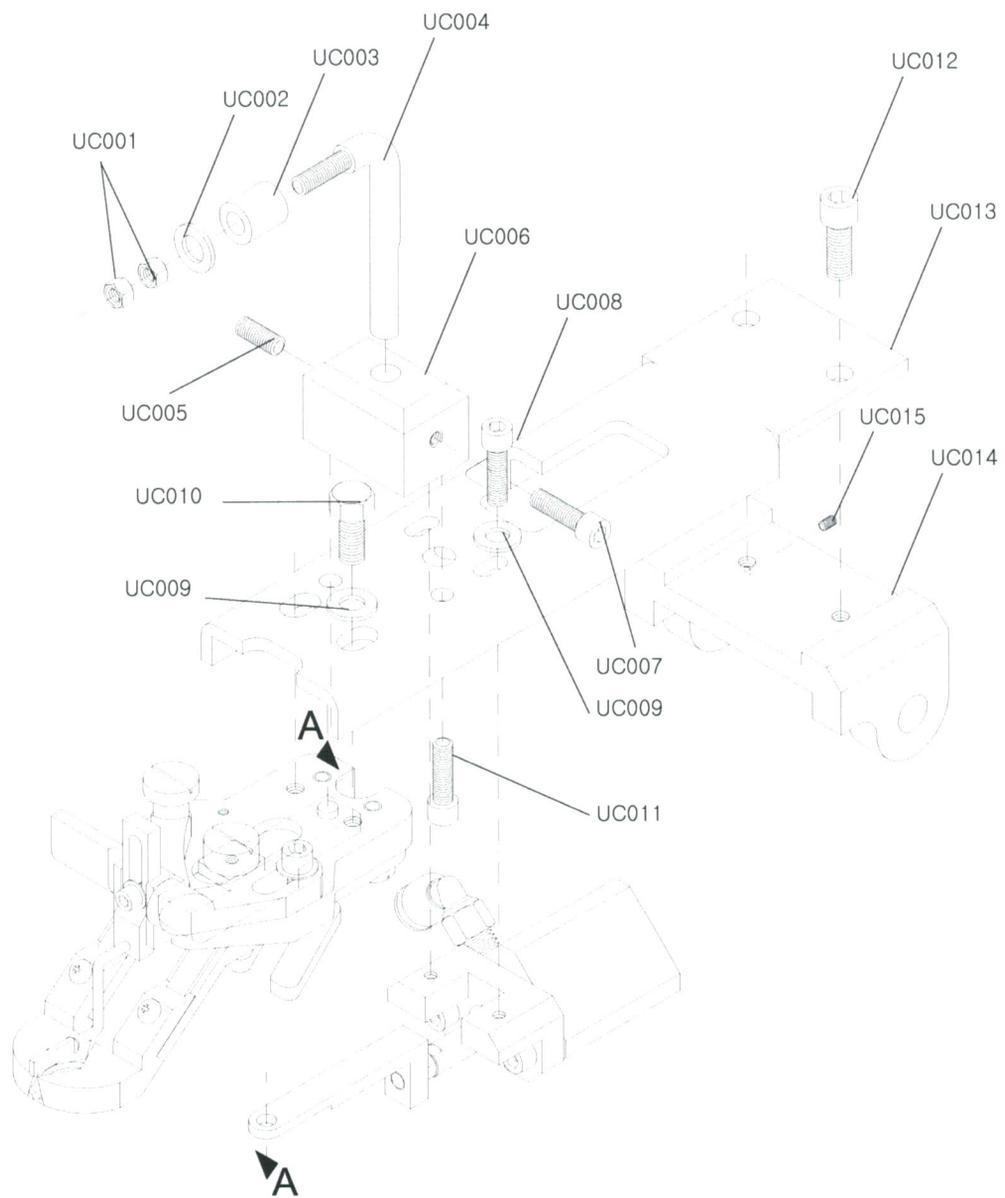
PRESSER FOOT AIR PART FOR JUKI
ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|-------------------------|
| 1 | JU001 | HANDLE FOR PRESSOR FOOT |
| 2 | JU002 | ALLEN FIXING BOLT |
| 3 | JU003 | WASHER |
| 4 | JU004 | ALLEN FIXING BOLT |
| 5 | JU005 | CLAMP STAND |
| 6 | JU006 | HEADNESS FIXING BOLT |
| 7 | JU007 | CLAMP ASSEMBLY |
| 8 | JU008 | ALLEN FIXING BOLT |
| 9 | JU009 | FIXING BOLT |
| 10 | JU010 | WASHER |
| 11 | JU011 | ELBOW NIPPLE |
| 12 | JU012 | CYLINDER |
| 13 | JU013 | CYLINDER HOLDER |
| 14 | JU014 | NUT |
| 15 | JU015 | ALLEN FIXING BOLT |
| 16 | JU016 | CLAMP OPENIG ASSISTANCE |
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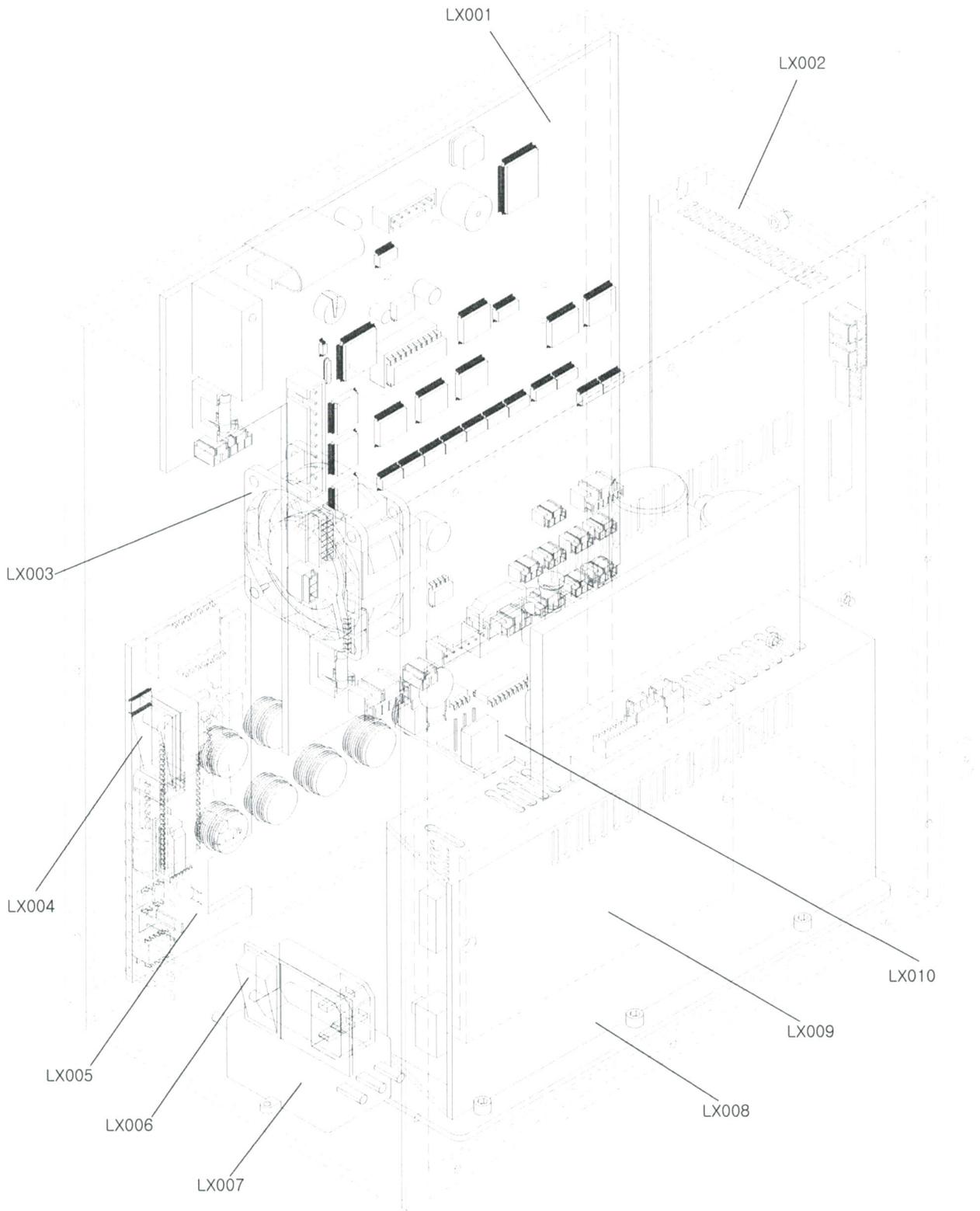
PRESSER FOOT AIR PART FOR UNICON
ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|----------------------|
| 1 | UC001 | NUT |
| 2 | UC002 | WASHER |
| 3 | UC003 | BUSHING |
| 4 | UC004 | HANDLE |
| 5 | UC005 | HEADNESS FIXING BOLT |
| 6 | UC006 | HANDLE HOLDER |
| 7 | UC007 | HANDLE HOLDER |
| 8 | UC008 | HANDLE HOLDER |
| 9 | UC009 | WASHER |
| 10 | UC010 | FIXING BOLT |
| 11 | UC011 | HANDLE HOLDER |
| 12 | UC012 | HANDLE HOLDER |
| 13 | UC013 | PRESSOR FOOT BODY |
| 14 | UC014 | PRESSOR FOOT HOLDER |
| 15 | UC015 | HEADNESS FIXING BOLT |
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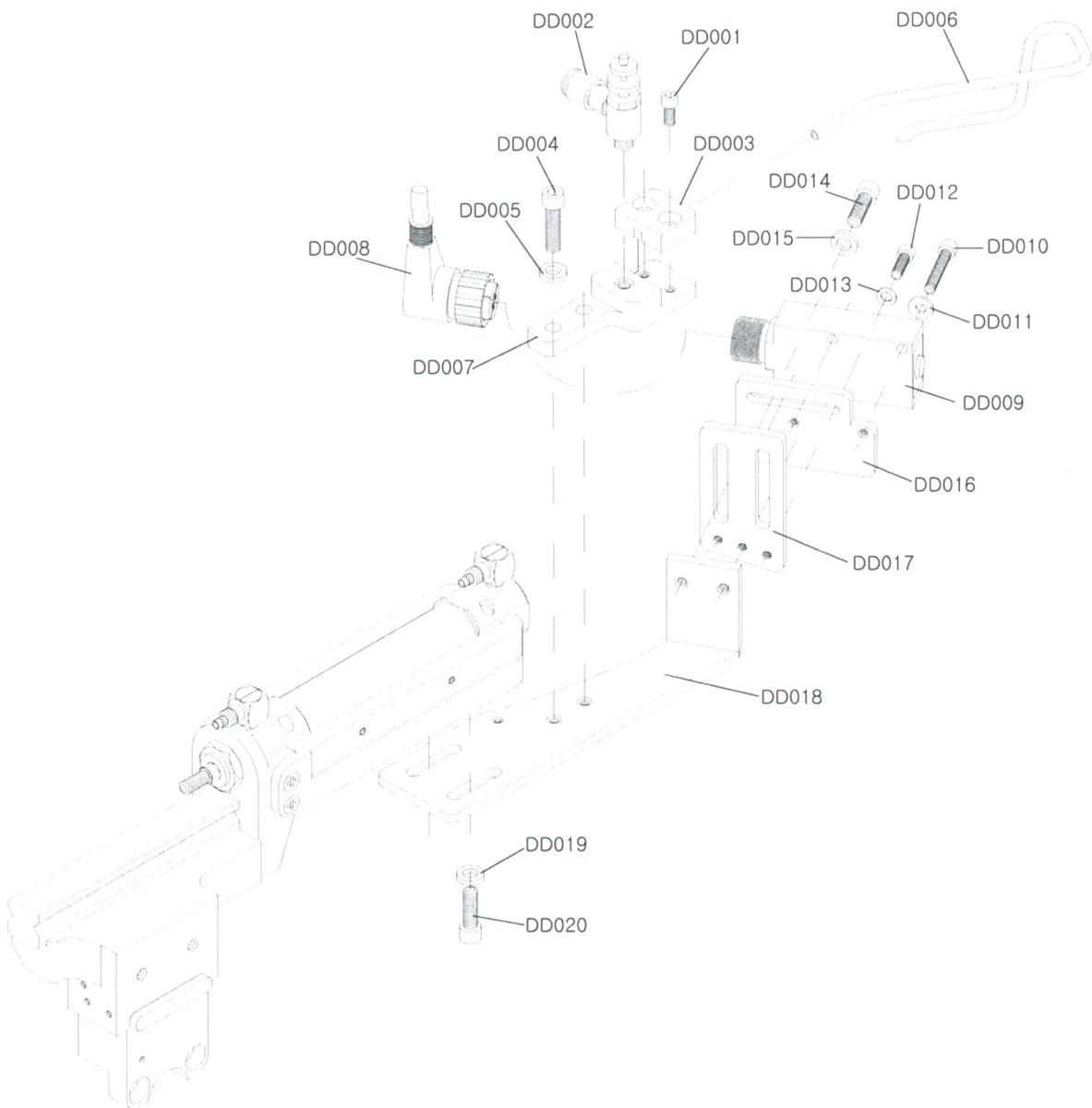
CONTROL BOX ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|----------------------------|
| 1 | LX001 | MAIN PCB BOARD |
| 2 | LX002 | DRIVER |
| 3 | LX003 | FAN |
| 4 | LX004 | VIBRATOR POWER SWITCH |
| 5 | LX005 | VIBRATOR CONTROL PCB BOARD |
| 6 | LX006 | CONTROL BOX MAIN SWITCH |
| 7 | LX007 | NOISE FILTER |
| 8 | LX008 | SMPS |
| 9 | LX009 | DRIVER |
| 10 | LX010 | VIBRATOR POWER PCB BOARD |
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ADD COLOR SENSOR ASS'Y PART LIST



| No. | Part No. | Part Name |
|-----|----------|------------------------|
| 1 | DD001 | ALLEN FIXING BOLT |
| 2 | DD002 | SPEED CONTROLER NIPPLE |
| 3 | DD003 | AIR PIPE HOLDER COVER |
| 4 | DD004 | ALLEN FIXING BOLT |
| 5 | DD005 | WASHER |
| 6 | DD006 | AIR PIPE |
| 7 | DD007 | AIR PIPE HOLDER BLOCK |
| 8 | DD008 | SENSOR CABLE |
| 9 | DD009 | COLOR SENSOR |
| 10 | DD010 | ALLEN FIXING BOLT |
| 11 | DD011 | WASHER |
| 12 | DD012 | ALLEN FIXING BOLT |
| 13 | DD013 | WASHER |
| 14 | DD014 | ALLEN FIXING BOLT |
| 15 | DD015 | WASHER |
| 16 | DD016 | SENSOR BRACKET |
| 17 | DD017 | SENSOR BRACKET HOLDER |
| 18 | DD018 | SENSOR ASS'Y HOLDER |
| 19 | DD019 | WASHER |
| 20 | DD020 | ALLEN FIXING BOLT |
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EC DECLARATION OF CONFORMITY

In accordance with:-

EC Machinery Directive 2006/42/EC (Annex II 1 A)

We herewith declare that the:-

Product description: DIGITALLY CONTROLLED FULLY PROGRAMMABLE
BUTTON FEEDER ATTACHMENT

Model Number: ST-12

Serial Number: N/A

Manufacturer: LOIVA

Address: 3FL, 768-12 OHJUNG DONG, OHJUNG GU, BUCHEON CITY,
KYOUNGGI DO, KOREA

when used in accordance with the manufacture's instructions, conforms with the essential health and safety requirements of the Machinery Directive by virtue of its design, construction and assessment.

In support of this declaration the subject machine has been evaluated as complying with the following:-

- a) The Machinery Directive (Annex I), by compliance with the applicable clauses of the following harmonized standards:-

ISO 12100:2010 and EN 60204-1:2006

- b) Technical file No: MD-12094TH

If the equipment is modified without the agreement of the undersigned, this declaration becomes invalid.

LOIVA

KIM HYOUNG GI

.....
Representative of **LOIVA**

CEO

.....
Position in Organization

Signature signed on 15/10/2012



Thinks First of the Operator Being!

MANUFACTURER & SELLER

LOIVA

Automated machinery & Various special attachments

768-12, OhJung Dong, Ohjung Gu, Bucheon City, Korea

Tel. +82 32 677 3321 / 3322 / Fax. +82 32 677 3323

<http://www.loivaintech.com> e-mail: loiva@naver.com