



Model

# 1278-8F

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## Technical Manual & Part List



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# Atlanta Attachment Company, Inc.

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•5,979,345 • 6,035,794 • 6,055,921 • 6,202,579 • 6,279,869 • 6,295,481 • 6,494,225  
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## Safety Instruction



This part of the Instruction Material is provided for the safe use of your equipment. It contains important information to help work safely with the unit and describes the dangers inherent in machinery. Some of these dangers are obvious, while others are less evident.

### Mandatory Information

All persons operating and/or working on the Workstation should read and understand all parts of the Safety Instructions. This applies, in particular, for persons who only operate and/or work on the unit occasionally (e.g. for maintenance and repair). Persons who have difficulty reading must receive particularly thorough instruction.

### Scope of the Instruction Material

The Instruction Material comprises:

Safety information

Operator Instructions

Electrical and Pneumatic diagrams

And may also include.

A list of recommended spare parts

Instruction Manual(s) for components made by other manufacturers

The layout and installation diagram containing information for installation

### Intended Use

Our machines are designed and built in line with the state of the art and the accepted safety rules. However, all machines may endanger the life and limb of their users and/or third parties and be damaged or cause damage to other property, particularly if they are operated incorrectly or used for purposes other than those specified in the Instruction Manual.

### Exclusion of Misuse



Non-conforming uses include, for example, using the equipment for something other than it was designed for, as well as operation without duly installed safety equipment. The risk rests exclusively with the end user.

Conforming use of the machine includes compliance with the technical data, information and regulations in all parts of the complete Instruction Material, as well as compliance with the maintenance regulations. All local safety and

accident prevention regulations must also be observed.

### Liability

The machine should only be operated when in perfect working order, with due regard for safety and the potential dangers, as well as in accordance with the Instruction Material. Faults and malfunctions capable of impairing safety should be remedied immediately. We cannot accept any liability for personal injury or property damage due to operator errors or non-compliance with the safety instructions contained in this booklet. The risk rests exclusively with the end user.

The Instruction Material should always be kept near the machine so that it is accessible to all concerned.

The local, general, statutory and other binding regulations on accident prevention and environmental protection must also be observed in addition to the Instruction Material. The operating staff must be instructed accordingly. This obligation also includes the handling of dangerous substances and provision/use of personal protective equipment.

The Instruction Material should be supplemented by instructions, including supervisory and notification duties with due regard for special operational features, such as the organization of work, work sequences, the personnel deployed, etc.

## Safety

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The personnel's awareness of the dangers and compliance with the safety regulations should be checked at irregular intervals.

### Choice and Qualification of Personnel

Ensure that work on the machine is only carried out by reliable persons who have been appropriately trained for such work - either within the company, by our field staff or at our office - and who have not only been duly appointed and authorized but are also fully familiar with the local regulations. Work on the machine should only be carried out by skilled personnel, under the management and supervision of a duly qualified engineer.

This not only applies when the machine is used for production, but also for special work associated with its operation (start-up and maintenance), especially when it concerns work on the hydraulic or electrical systems, as well as on the software/serial bus system.

### Training

Everyone working on or with the machine should be duly trained and informed with regard to correct use of the safety equipment, the foreseeable dangers which may arise during operation of the machine and the safety precautions to be taken. In addition, the personnel should be instructed to check all safety mechanisms at regular intervals.

### Responsibilities

Clearly define exactly who is responsible for operating, setting-up, servicing and repairing the machine. Define the responsibilities of the machine operator and authorize him to refuse any instructions by third parties if they run contrary to the machine's safety. This applies in particular for the operators of machines linked to other equipment. Persons receiving training of any kind may only work on or with the machine under the constant supervision of an experienced operator. Note the minimum age limits permitted by law.

### A Word to the Operator

The greatest danger inherent in our machines: is that of fingers, hands or loose clothing being drawn into a machine by live, coasting or rotating tools or assemblies or of being cut by sharp tools or burned by hot elements.

## **Always be conscious of these dangers!**

### Safety Equipment on the Machines



All machines are delivered with safety equipment, which shall not be removed or bypassed during operation.

The correct functioning of safety equipment on machines and systems should be checked every day and before every new shift starts, after maintenance and repair work, when starting up for the first time and when restarting (e.g. after prolonged shutdowns).

If safety equipment has to be dismantled for setting-up, maintenance or repair work, such safety equipment shall be replaced and checked immediately upon completing the maintenance or repair work.

All protective mechanisms shall be fitted and fully operational whenever the machine is at a standstill or if it has been shut down for a longer period of time.

### Damage

If any changes capable of impairing safety are observed in the machine or its mode of operation, such as malfunctions, faults or changes in the machine or tools, appropriate steps must be taken immediately, the machine switched off and a proper lockout tagout procedure followed. The machine should be examined for obvious damage and defects at least once per

## Safety

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shift. Damage found shall be immediately remedied by a duly authorized person before resuming operation of machine.

The machine should only be operated when in perfect working order and when all protective mechanisms and safety equipment, such as detachable protective mechanisms, emergency STOP systems, etc. are in place and operational.

### Faults or Errors

The machine must be switched off and all moving or rotating parts allowed to come to a standstill and secured against accidental restart before starting to remedy any faults or errors.

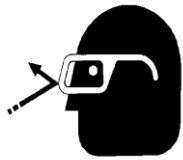
### Signs on the Machine

Safety and danger signs on the machine should be observed and checked at regular intervals to ensure that they are complete and undamaged. They should be clearly visible and legible at all times.

### Clothing, Jewelry, Protective Equipment

Long loose hair, loose-fitting clothes, gloves and jewelry, including rings, should be avoided in order to avoid injuries due to being caught, drawn in and wound up inside the machine.

### Protective Eyewear



Protective eyewear that has been tested by the local authorities should be worn whenever there is a possibility of loose or flying objects or particles such as when cleaning the machine with compressed air.

### Tools

Always count the number of tools in your possession before starting work on the machine. This will allow you to check that no tools have been left behind inside the machine. Never leave a tool in the machine while working.

### Oils, Lubricants, Chemicals

Note the applicable safety regulations for the product used.

### No Smoking, Fire, Explosion Hazard

Smoking and open flame (e.g. welding work) should be prohibited in the production area due to the risk of fire and explosions.

### Workplace

A clear working area without any obstructions whatsoever is essential for safe operation of the machine. The floor should be level and clean, without any waste.

The workplace should be well lit, either by the general lighting or by local lights.

### Emergency STOP

The emergency STOP buttons bring all machine movements to a standstill. Make sure you know exactly where they are located and how they work. Try them out. Always ensure easy access to the nearest emergency STOP button while working on the machine.

### First Aid

1. Keep calm even when injured.
2. Clear the operator from the danger zone. The decision of what to do and whether to seek additional assistance rests entirely with you, particularly if someone has been trapped.
3. Give First Aid. Special courses are offered by such organizations as the employers' liability insurance association. Your colleagues should be able to rely on you and vice versa.
4. Call an ambulance. Do you know the telephone numbers for the ambulance service, police and fire service?

## Important Notices

### Reporting and Fighting Fires

Read the instructions posted in the factory with regard to reporting fires and the emergency exits. Make sure you know exactly where the fire extinguishers and sprinkler systems are located and how they are operated. Pass on the corresponding information to the firemen when they arrive. Ensure there are enough signs to avoid fire hazards.

The following fire extinguishers may be used:

- Dry powder extinguishers, ABC fire-extinguishing powder.
- Carbon dioxide fire extinguishers to DIN 14461 for electronic components. Great care must be exercised when using carbon dioxide fire extinguishers in confined, badly ventilated rooms (see DIN 14406 and 14270).

Isolate the machine from the power supply if a fire breaks out. Do not use water on burning electrical parts until it is absolutely certain that they have been completely disconnected from the power supply. Burning oils, lubricants, plastics and coatings on the machine can give off gases and vapors that may be harmful to your health.

A qualified person should be consulted to repair the damage after a fire.

### Electrical Power Supply



Before undertaking any maintenance or repair work on the machine, switch off the electrical power to the machine at the main source and secure it with a padlock so that it cannot be switched on again without authorization.

In practice, this may mean that the technician, electrician and operator all attach their own padlock to the master switch simultaneously so that they can carry out their work safely. Locking extension plates should be available for multiple locks if required. The primary purpose for a lockout/tagout

procedure is to protect workers from injury caused by unexpected energizing or start-up of equipment.

Energy sources (electrical/pneumatic/hydraulic, etc.) for the equipment shall be turned off or disconnected and the switches locked or labeled with a warning tag. It is the responsibility of the employer to establish control procedures. Follow lockout/tagout procedures before, setup and/or any service or maintenance work is performed, including lubrication, cleaning or clearance of jams.

### **Caution: The machine is still not completely de-energized even when the master switch is off.**

- Electricity - The machine is always isolated from the electrical power supply whenever the master switch has been switched off. However, this does not apply for the power supply in the control cabinet, nor for equipment that does not draw its power via the master switch.

- Pneumatic / hydraulic energy - Almost all our machines carry compressed air. In addition to switching off the master switch, the air supply must also be disconnected, and the machine checked to ensure it is depressurized before starting any work on the machine; otherwise the machine may execute uncontrolled movements.

- Kinetic energy - Note that some motors or spindles, for example, may continue to run or coast run on after being switched off.

- Potential energy - Individual assemblies may need to be secured if necessary for repair work.

## Safety

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### **Delivery of the Machine/Packaging**

Note any markings on the packaging, such as weights, lifting points and special information. Avoid temperature fluctuations. Condensation may damage the machine.

### **Transport Damage**

The packaging and machine must immediately be examined for signs of damage in transit. Such damage must be reported to the shipper/transporter within the applicable time limits. Contact Atlanta Attachment Company and/or your transport insurer immediately, if signs of damage are visible. Never operate a damaged machine.

### **Interim Storage**

If the machine has to be stored temporarily, it must be oiled or greased and stored in a dry place where it is protected from the weather in order to avoid damage. A corrosion-inhibiting coating should be applied if the machine has to be stored for a longer period of time and additional precautions taken to avoid corrosion.

### **Transporting the Machine**

Disconnect the machine from all external connections and secure any loose assemblies or parts. Never step under a suspended load. When transporting the machine or assemblies in a crate, ensure that the ropes or arms of a forklift truck are positioned as close to the edge of the crate as possible. The center of gravity is not necessarily in the middle of the crate. Note the accident prevention regulations, safety instructions and local regulations governing transport of the machine and its assemblies.

Only use suitable transport vehicles, hoisting gear and load suspension devices that are in perfect working order and of adequate carrying capacity. Transport should only be entrusted to duly qualified personnel.

Never allow the straps to rest against the machine enclosure and never push or pull sensitive parts of the machine. Ensure that the load is always properly secured. Before or immediately after loading the machine, secure it properly and affix corresponding warnings.

All transport guards and lifting devices must be removed before the machine is started up again. Any parts that are to be removed for transport must be carefully refitted and secured before the machine is started up again.

### **Workplace Environment**

Our machines are designed for use in enclosed rooms: Permissible ambient temperature approx. 5 - 40 °C (40 - 104 °F). Malfunctions of the control systems and uncontrolled machine movements may occur at temperatures outside this range.

Protect against climatic influences, such as electrostatic charges, lightning strikes, hail, storm damage, high humidity, salinity of the air in coastal regions.

Protect against influences from the surroundings: no structure-borne vibrations, no grinding dust, or chemical vapors.

Protect against unauthorized access.

Ensure that the machine and accessories are set up in a stable position.

Ensure easy access for operation and maintenance (Instruction Manual and layout diagram); also verify that the floor is strong enough to carry the weight of the machine.

### **Local Regulations**

Particular attention must be paid to local and statutory regulations, etc. when installing machines and the plant (e.g. with regard to the specified escape routes). Note the safety zones in relation to adjacent machines.

## Safety

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### Maintenance

#### General Safety Instructions

The machine shall be switched off, come to a standstill and be secured so that it cannot be switched on again inadvertently before starting any maintenance work whatsoever. Use proper lockout/tagout procedures to secure the machine against inadvertent startup.

Remove any oil, grease, dirt and waste from the machine, particularly from the connections and screws, when starting the maintenance and/or repair work. Do not use any corrosive-cleaning agents. Use lint-free rags.

Retighten all screw connections that have to be loosened for the maintenance and repair work. Any safety mechanisms that have to be dismantled for setting-up, maintenance or repair purposes must be refitted and checked immediately after completing the work.

#### Maintenance, Care, Adjustment

The activities and intervals specified in the Instruction Manual for carrying out adjustments, maintenance and inspections must be observed, and parts replaced as specified.

All hydraulic and pneumatic lines should be examined for leaks, loose connections, rubbing and damage whenever the machine is serviced. Any defects found must be remedied immediately.

#### Waste, Disassembly, Disposal

Waste products should be cleared from the machine as soon as possible as not to create a fire hazard.

Ensure that fuels and operating lubricants, as well as replacement parts are disposed of in a safe and ecologically acceptable manner. Note the local regulations on pollution control.

When scrapping (disassembling) the machine and its assemblies, ensure that these materials are disposed of safely. Either commission a specialist company familiar with the local regulations or note the local regulations when disposing of these materials yourself. Materials should be sorted properly.

#### Repair

##### Replacement Parts

We cannot accept any liability whatsoever for damage due to the use of parts made by other manufacturers or due to unqualified repair or modification of the machine.

#### Repair, Electrical

The power supply must be switched off (master switch off) and secured so that it cannot be switched on again inadvertently before starting any work on live parts.

Those parts of the machine and plant on which inspection, maintenance or repair work is to be carried out must be isolated from the power supply, if specified. The isolated parts must first be checked to determine that they are truly de-energized before being grounded and short-circuited. Adjacent live parts must also be isolated.

The protective measures implemented (e.g. grounding resistance) must be tested before restarting the machine after all assembly or repair work on electric parts.

Signal generators (limit switches) and other electrical parts on the safety mechanisms must not be removed or bypassed. Only use original fuses or circuit overloads with the specified current rating. The machine must be switched off immediately if a fault develops in the electrical power supply.

The electrical equipment of our machines must be checked at regular intervals and any defects found must be remedied immediately.

If it is necessary to carry out work on live parts, a second person should be on hand to operate the emergency OFF switch or master switch with voltage release in the event of an emergency. The working area should be cordoned off and marked by a warning sign. Only use electrically insulated tools.

## Safety

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### Ventilation/Hazardous Gases

It is the end users responsibility to ensure adequate ventilation is provided to exhaust any and all noxious or hazardous gases that may be present in the working environment.

### Hydraulic and Pneumatic Systems

Work on hydraulic or pneumatic equipment shall only be carried out by persons with training, knowledge and experience of hydraulic systems. Pressure lines shall be depressurized before starting any repair work.

### General Liability

Liability for machine damage and personal injury is extinguished completely if any unauthorized conversions or modifications are undertaken. The machine must not be modified, enlarged or converted in any way capable of affecting safety without the manufacturer's prior approval.

### Starting Machine Movements

Read the Instruction Manual carefully to establish which keys and functions start machine movements.

### A Word to the End User

The end user has sole responsibility to enforce the use of safety procedures and guards on the machine. Any other safety devices or procedures due to local regulations should be retrofitted in accordance to these regulations and/or the EC Directive on the safety of machines.

Operator's position must always be readily accessible. Escape routes must always be kept clear and safety areas should be identified.

### Safety Precautions

Safety should be a constant concern for everyone. Always be careful when working with this equipment. While normal safety precautions were taken in the design and manufacture of this equipment, there are some potential safety hazards.

Everyone involved with the operation and maintenance of this equipment should read and follow the instructions in this manual. Operate the equipment only as stated in this manual. Incorrect use could cause damage to the equipment or personal injury.

It is the owner's responsibility to make certain that the operator reads and understands this manual before operating this equipment. It is also the owner's responsibility to make certain that the operator is a qualified and physically able individual, properly trained in the operation of this equipment.

Specific safety warning decals are located on the equipment near the immediate areas of potential hazards. These decals should not be removed or obliterated. Replace them if they become non-readable.

- ALWAYS keep safety shields and covers in place, except for servicing.
- ALWAYS operate equipment in daylight or with adequate working lights.
- Follow daily and weekly checklists, making sure hoses are tightly secured and bolts are tightened.
- ALWAYS watch and avoid holes or deep depressions.

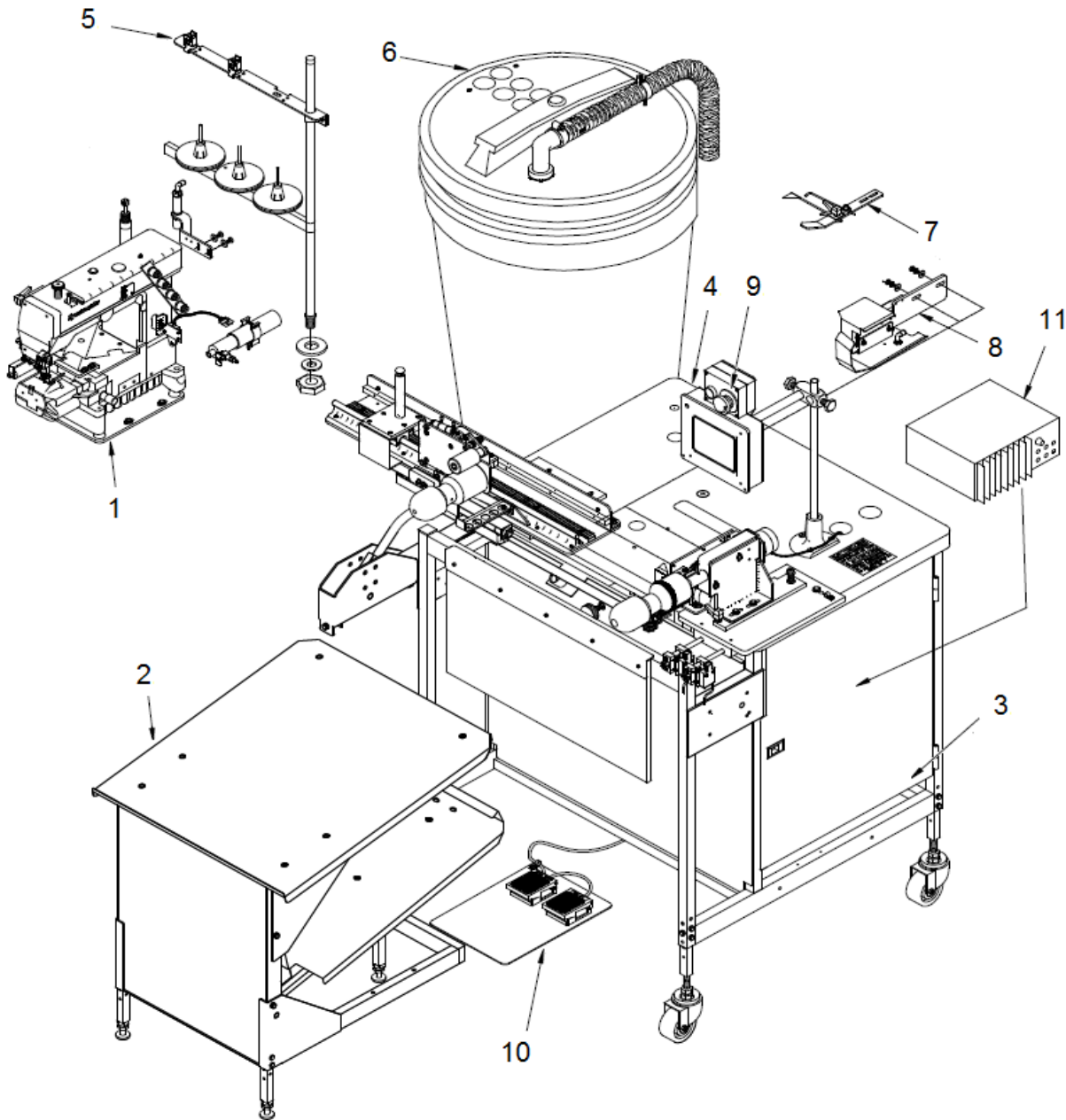
ALWAYS wear adequate eye protection when servicing the hydraulic system and battery.

- NEVER operate a poorly maintained machine.
- NEVER allow persons to operate this machine without proper instruction.
- NEVER put hands or feet under any part of the machine while it is running.
- NEVER attempt to make any adjustments or repairs to the machine while running. Repairs or maintenance should be performed by trained personnel only.
- NEVER work under the machine unless it is safely supported with stands, blocks or a hoist and blocks.
- NEVER touch hot parts of machine.

# 1. INSTALLATION

**NOTE:** It is important that the machine technician read this manual and is familiar with all the functions and safety concerns of the unit before Installing and operating.

## 1.1. Parts and Components



- 1.- Sewing Head
- 2.- Stacker
- 3.- Console
- 4.- Control panel
- 5.- Thread Sensors
- 6.- Waste
- 7.- Guide Tongue
- 8.- Guide Plate
- 9.- Emergency Stop
- 10.- Foot Pedal
- 11.- Stepping Box

## 1.2. Technical Data

SPECIFICATIONS / ESPECIFICACIONES	
Voltage (v/ph/hz) / Voltaje (v/ph/hz)	220v 1ph
Current (amps) / Amperaje (amperios)	6.5
Air pressure (psi) / Presión de aire (psi)	90
Air consumption (cfm) / Consumo de aire (cfm)	15
Shipping weight (lbs) / Peso de embarque (lbs)	890
Shipping dimensions (w/l/h, inch) / Dimensiones de embarque (w/l/h, pulgadas)	60 x 54 x 60

## 1.3. Production

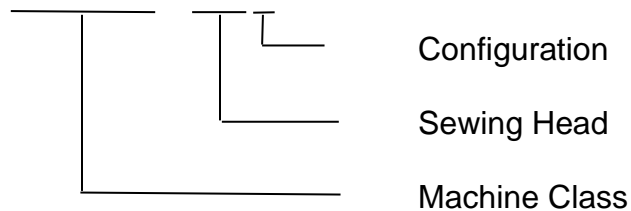
Single Unit: 285 - 300 dozen per 8 hour shift, depending on material and size of parts.

Tandem Setup: Approximately 660 bottom hems per hour, depending on material and size of parts.

## 1.4. Machine Classes and Codes

For easy reference Atlanta Attachment's Codes are as follow:

112788FY5F



- Y1 Yamato 3711 4.5 Ga
- Y2 Yamato 3711 6.0 Ga
- Y4 Yamato 3711 4.8 Ga (3/16)
- Y5 Yamato 3711 5.6 Ga (1/4)
- Y6 Yamato 3711 6.4 Ga (1/4)
- Y15 Yamato VG3711 5.6 Ga (1/4)
- Y7 Yamato 2711 4.8 Ga (3/16)
- Y8 Yamato 2711 5.6 Ga (1/4)
- Y9 Yamato 2711 6.4 Ga (1/4)
- G4 Pegasus W664-35 4.8 Ga (3/16)
- G5 Pegasus W664-35 5.6 Ga (1/4)
- G6 Pegasus W664-35 6.4 Ga (1/4)
- G7 Pegasus W664-08 4.8 Ga (3/16)
- G8 Pegasus W664-08 5.6 Ga (1/4)
- G9 Pegasus W664-08 6.4 Ga (1/4)

# 1.5. Options & Classes

## 1278-8 CLASSES

2 NEEDLE CIRCULAR BOTTOM HEMMER

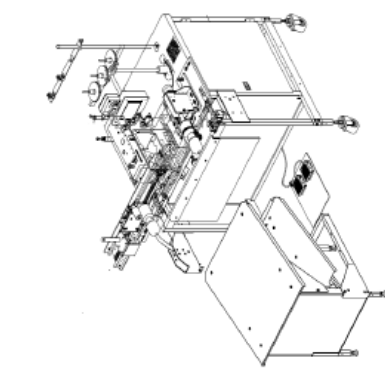


8/23/2016

Part Number	Description	SEWING HEAD		NEEDLE DISTANCE					LEFT HAND KNIFE		MOTOR		STITCH CONDENSING		NO TOP GUIDE	
		Pegasus	Yamato	Juki	Rimoldi	4.5	4.8	5.6	6.4	W/LHK	N/LHK	PANA	EFKA	W/SC		N/SC
<b>MOST COMMON</b>																
112788FG5K	2 NDL CIR BOT HMR, PEG/SB 5.6, W/LHK, N/SC, NTG, EFKA	X				X			X					X		X
112788FG6K	2 NDL CIR BOT HMR, PEG/SB 6.4, W/LHK, N/SC, NTG, EFKA	X					X		X					X		X
112788FY5K	2 NDL CIR BOT HMR, YAM, SB 5.6MM W/LHK, N/SC, NTG, EFKA		X					X	X					X		X
112788FY6K	2 NDL CIR BOT HMR, YAM, SB 6.4MM W/LHK, N/SC, NTG, EFKA		X					X	X					X		X
112788FJ1D	2 NDL CIR BOT HMR, JUKI, SB 6.4MM W/LHK, N/SC, NTG, PANA			X				X	X					X		X
<b>SPECIAL ORDERS</b>																
112788FG7H	2 NDL CIR BOT HMR, PEG, SB 4.8MM N/LHK, W/SC, NTG, PANA	X				X				X				X		X
112788FG8C	2 NDL CIR BOT HMR, PEG, SB 5.6MM N/LHK, N/SC, PANA	X					X			X				X		X
112788FG8J	2 NDL CIR BOT HMR, PEG/SB 5.6, N/LHK, N/SC, NTG, PANA	X					X			X				X		X
112788FG5F	2 NDL CIR BOT HMR, PEG/SB 5.6, W/LHK, N/SC, NTG, PANA	X						X		X				X		X
112788FG8L	2 NDL CIR BOT HMR, PEG/SB 5.6, W/LHK, N/SC, NTG, EFKA	X							X					X		X
112788FG6F	2 NDL CIR BOT HMR, PEG, SB 6.4, W/LHK, N/SC, NTG, PANA	X								X				X		X
112788FY4F	2 NDL CIR BOT HMR, YAM, SB 4.8MM W/LHK, N/SC, NTG, PANA	X					X			X				X		X
112788FY4K	2 NDL CIR BOT HMR, YAM, SB 4.8MM W/LHK, N/SC, NTG, EFKA	X					X			X				X		X
112788FY5E	2 NDL CIR BOT HMR, YAM, SB 5.6MM W/LHK, W/SC, NTG, PANA	X						X		X				X		X
112788FY6A	2 NDL CIR BOT HMR, YAM, SB 5.6MM N/LHK, W/SC, EFKA	X						X		X				X		X
112788FY5F	2 NDL CIR BOT HMR, YAM, SB 5.6MM W/LHK, N/SC, NTG, PANA	X						X		X				X		X
112788FY8C	2 NDL CIR BOT HMR, YAM, SB 5.6MM N/LHK, N/SC, PANA	X						X		X				X		X
112788FY8J	2 NDL CIR BOT HMR, YAM/SB 5.6, N/LHK, N/SC, NTG, PANA	X						X		X				X		X
112788FY6E	2 NDL CIR BOT HMR, YAM, SB 6.4MM W/LHK, W/SC, NTG, PANA	X							X	X				X		X
112788FY6F	2 NDL CIR BOT HMR, YAM, SB 6.4MM W/LHK, N/SC, NTG, PANA	X								X				X		X
112788FY6K	2 NDL CIR BOT HMR, YAM, SB 6.4MM W/LHK, N/SC, NTG, EFKA	X							X	X				X		X

- Features**
- Shirts may be tubular or with side seams.
  - Utilizes single operator for tandem operation
  - Standard hem size 1/8 to 1".
  - Available in 4.8, 5.6, 6.4 gauge.
  - Automatic sizing garments.
  - Minimum fabric trimming waste on knife version
  - Precision tension control
  - 100% cotton thread.
  - Sew various types of material, i.e., fleece, jersey,
  - Stacker accommodates large and small sizes.
  - Reduces ergonomic risk.
  - Patented Serial Bus Control System
  - Shirt may be hemmed first or last operation
  - Perfectly aligned oversew
  - Electronic active edge guiding system

STANDARD	OPTIONS	GARMENT SIZE
<p><b>BOTTOM COVER</b></p> <p>2 NEEDLES</p>	<p><b>TOP COVER</b></p> <p>40-3TCY 40-3TCG</p> <p>3 NEEDLES</p>	<p><b>FLAT MEASURING</b></p> <p>STANDARD 13 - 34 INCHES 33.0 - 88.9 CM</p> <p>OPTIONAL SMALL ROLLERS 10-1/2 - 34 INCHES 26.5 - 86.3 CM</p>
	<p><b>SMALL ROLLERS</b></p> <p>1278-8KIT17 REVERSE CURL</p>	
		<p>1278-8KIT16</p>



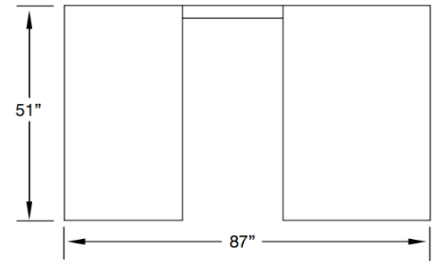
- Options**
- Stitch condensing
  - 1278-8KIT17 Kit of small Rollers
  - 1278-8KIT16 Kit Reverse curl, Uncurler
  - 40-3TCY Top Cover Stitch Yamato
  - 40-3TCG Top Cover Stitch Pegasus

**Recommended**

## Installation

### 1.6. Footprint

Machine footprint is 51"x87". Leave enough free space around to be able to open all doors and have access for maintenance.



### 1.7. Machine Identification Label

Machine identification is located on top to the table. Its contents are the machine class and the Serial Number. Ex: 208005081657

Serial number is divided as follow.

First number identify the order number 208005

Next number month of manufacturing (08)

Next number the year of manufacturing (16)

Following a correlative number 57

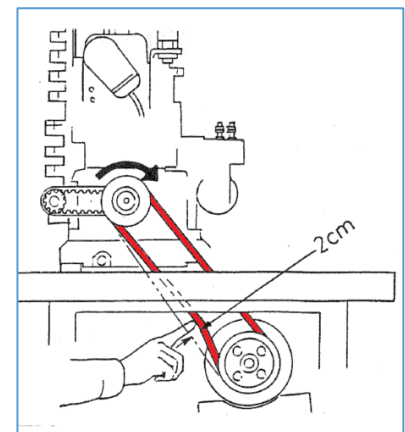


### 1.8. Installation & Set Up

1. Remove all shipping straps from machine.
2. Inspect the machine for any damage that may have occurred during shipping. If damage is found, report this immediately to your supervisor. Document the damage and provide details and photographs.
3. Position the machine in a desired location on a sound and reasonably level floor. Make sure that there is sufficient lighting over the machine. Remove all packing material.
4. Apply with a clean towel a light coat of oil to all black oxide parts to avoid future corrosion.

#### 1. V-belt

After removing machine from crate, reinstall V-belt on motor and head pulleys



#### 2. Thread Stand

Reinstall thread stand and thread detectors.



### 3. Computer Boxes

Install Touch Screen. (Serial Bus)



### 4. Waste System

The waste system comes with left hand knife machines only. Connect the waste tubes and air connections before operating the machine. Check and clean the foam filter.



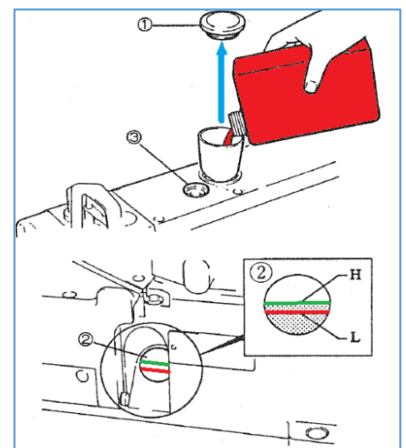
### 5. Stacker

Attach the stacker to the frame. Connect all airlines to the correctly numbered fittings. Manually extend the stacker tray and check that the tray is square to the machine and just touches the rubber pad when fully extended. Stacker can be connected left or right accordantly to individual or tandem operation



### 6. Sewing Head Lubrication

Oil may be removed before shipping. Prior to using refill and check the oil level in sewing heads. (ISO Viscosity Grade 22 part #)



## Installation

### 7. Air Supply

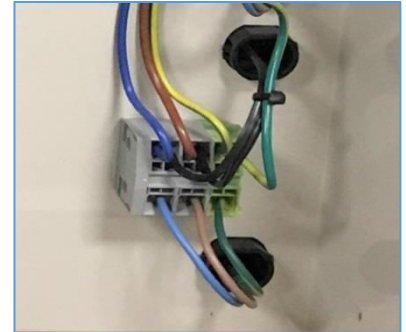
Requires one 3/8" air supply. Set to 90 psi.  
Turn the main air lock-out valve (Red Knob before the main pressure regulator) to the "ON" position.  
Air consumption is 15 CSM



### 8. Power Connection

Wire the power cord to 208-230vac, single phase. 6 Amp.

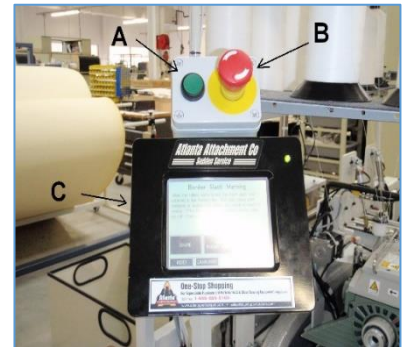
**NOTE:** It is important that the green wire should be connected to earth ground.



### 9. Power "ON"

Turn "ON" the safety switch inside the control box

Twist the Emergency Stop Red button "B" to return to its normal position. Turn the machine "ON" by pressing the green button "A" on the box just above the touch screen. The machine will first display the language choices and after several seconds its show the "MAIN READY" screen. This screen is the one that the operator will always see upon power up



### 10. Electric Eyes

After turning on power. Examine all electric eyes and ensure they are all adjusted and functioning properly. See service section for instructions



### 11. Stepping Motors

Press "JOG" buttons and check function of all stepping motors.



### 12. Foot lift Pedal

Step on FOOTLIFT PEDAL (left pedal) and verify proper function of Fork lift.



## Installation

### 13. Sewing Head

Rotate hand wheel by hand and check for freedom of movement. Hand wheel rotation should already be set. Test sewing with START SEW pedal on piece of scrap material.



### 14. Check Folder

Note: Only apply to machines with a top guide  
Go to ADVANCED FUNCTIONS, MACHINE DIAGNOSTICS, MANUAL OUTPUT, TEST, and FOLDER TONGUE. Verify folder tongue function and adjustment.



### 15. Check Guiding & Rollers

Go to Advanced Function, Machine Diagnostics, Manual Output, Test, Next Page, and Guide Cycle. Verify that the guide wheels respond to the correct eyes and the rollers turn in the correct direction. Press RESET.



### 16. Set-up First Garment

- A. Adjust the left roller to fit garment size. Press SEMI AUTOMATIC and load the garment. Check and adjust the body tension air pressure regulator if necessary.
- B. With garment loaded press, GUIDE CYCLE to jog the garment around the rollers and through the guide wheels. Check and adjust all guiding hardware.
- C. Press PAUSE, CONTINUE to initiate the sewing cycle.



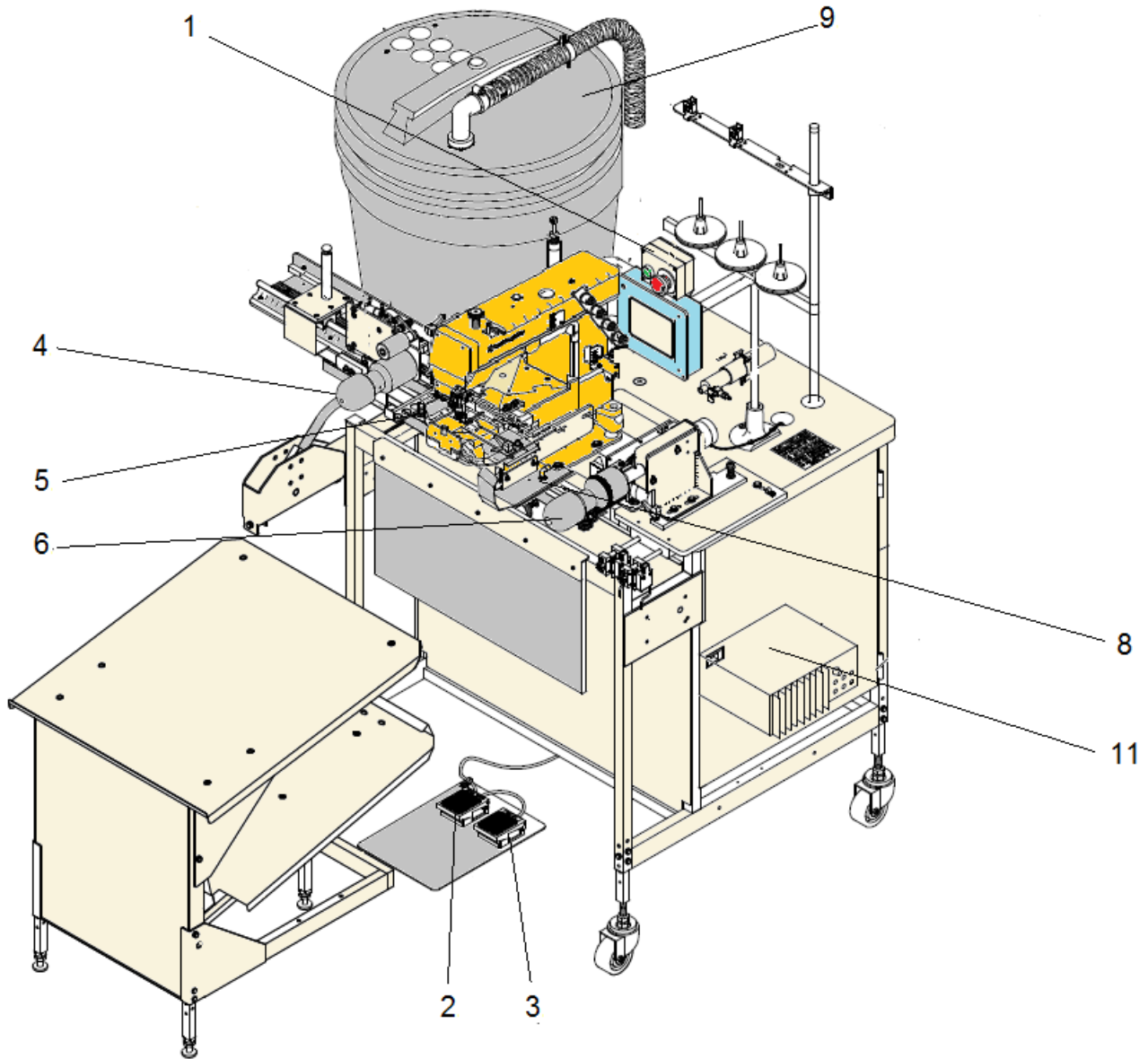
### Interim Storage

If the machine has to be stored temporarily, it must be oiled or greased and stored in a dry place where it is protected from the weather in order to avoid damage. A corrosion-inhibiting coating should be applied if the machine has to be stored for a longer period of time and additional precautions taken to avoid corrosion.

## 2. OPERATION

**Note:** It is important that the machine operator read this manual and is familiar with all the functions and safety concerns of the unit before operating.

### 2.1. Individual Components



1.- Power On	8.- Lower Guiding
2.- Footlift Pedal	9.- Waste System
3.- Start Sew Pedal	10.- Sewing Motor Control Boxes
4.- Left Roller Assembly	11.- Stepping Motors Control Boxes
5.- Presser Roller	
6.- Right Roller Assembly	

## Operation Instructions

### 2.1.1. Control Panel

The Control Panel allows the operator to start and stop the automatic function of the machine, shut off power to the machine in the event of an emergency.

**Caution: Unlocking the button with the Power “ON” engaged will turn on power to the machine.**

#### 1. Power On

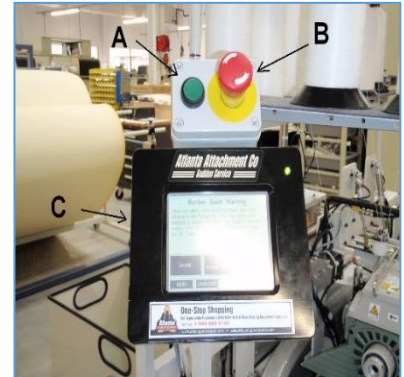
Power the machine “ON”.(A)

#### 2. Emergency Stop

Pressing this button(B) will turn off power to the machine. This button will lock when pressed. Twisting the button will cause it to unlock and return to its normal position.

#### 3. Serial Bus control

Touch Screen(C) controls all machine functions. More details are available in related chapters in this manual



### 2.1.2. Foot lift Pedal

This pedal will raise/lower the presser foot. It Causes under trimming and thread wiping if the head has been sewing, also disables the automatic sewing functions.

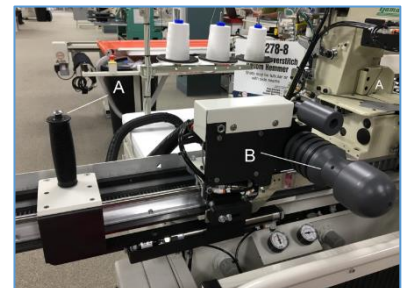
### 2.1.3. Start Sew Pedal

Activating this pedal will run the sewing machine and disable the automatic functions.



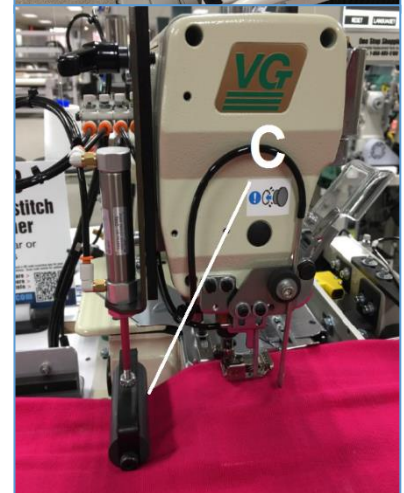
### 2.1.4. Left Roller Assembly

The left roller (B) has a quick release button (A) to allow easy size changes. This controls the tension on the garment while sewing. Automatically adjusts for size variations within a bundle. Takes up any “slack” created in the garment while sewing to ensure uniform hem formation and precise over-sew alignment.



### 2.1.5. Presser Roller

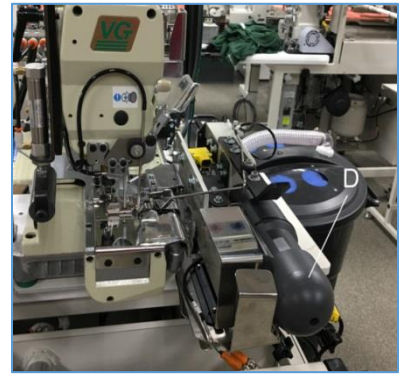
The Presser roller (C) is located behind the sewing head, it ensures uniform hem formation during the pre-feed jog cycle.



## Operation Instructions

### 2.1.6. Right Roller Assembly

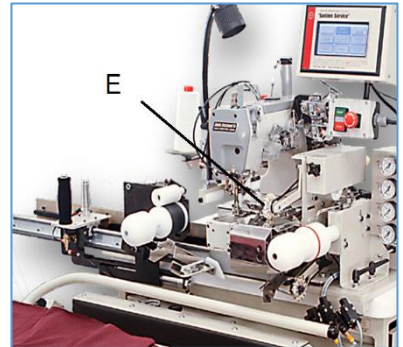
The right roller (D) consist of the right feed roller, upper guiding system and lower guiding system. Swings out for easy access to sewing head for maintenance.



### 2.1.7. Upper Guiding

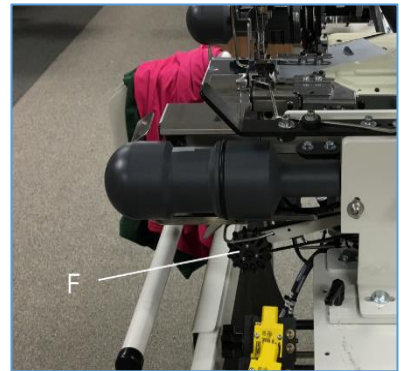
The upper wheel guiding (E) controls the hem formation inside the folder and maintains accurate over-sew alignment. Machine has self-diagnostic jam detection to ensure proper guiding performance.

**Note:** Upper guiding is not used on left hand knife machines



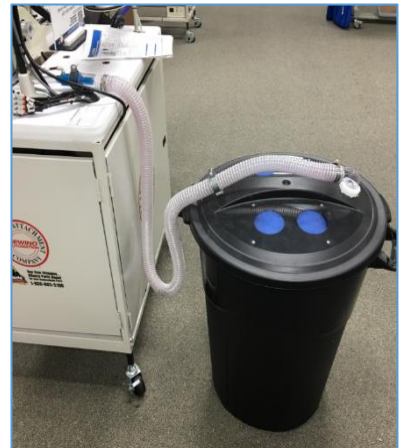
### 2.1.8. Lower Guiding

Provides the correct amount of fabric for proper hem formation. Controls alignment of garment on the front roller. Has self-diagnostic jam detection to ensure proper guiding performance.



### 2.1.9. Waste System

Supplied on left hand knife models only. Only runs while sewing to reduce air consumption. Has filtered waste container to trap lint. It needs to be cleaned every day. See maintenance section on this manual



### 2.1.10. Sewing Motor Control Boxes

Units can be supply with 2 different motor types

#### 1. Efka

It is locate inside the right door under the machine. Its contain an On/Off switch which should remain in the “ON” position at all times, Sewing head is controlled by these box

#### 2. Panasonic

It is locate inside the right door under the machine (A)., Sewing head is controlled by these box.

### 2.1.11. Stepping Motors Control Boxes

There is 1 control box (B) located under the machine. The amber light must be on during machine operation. There is a power switch located at the rear of the box. Its drives both rollers and the guide wheel

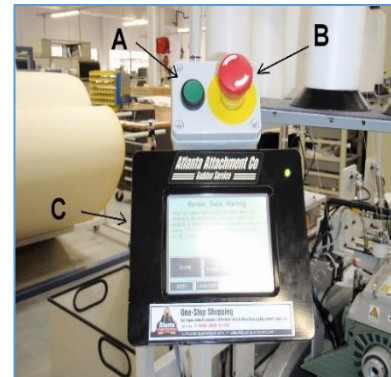


## 2.2. Touch-Screen

### 2.2.1. General Operation

Twist the Emergency Stop Red button "B" to return to its normal position. Turn the machine "ON" by pressing the green button "A" on the box just above the touch screen. The machine will first display the language choices and after several seconds it will display the "MAIN READY" screen for Operator to begin.

**Caution: Do Not Use Any Sharp Objects to Touch the Screen**



The graphics images presented on the touch screen show "3-dimensional" buttons, which may be pressed to access other screens, change counters and timers, or actuate hardware. Areas lacking the "3- dimensional" border contain information only. The row of buttons across the bottom of the screen are called Standard buttons. They will appear or change based on the needs of the current screen

**RESET:** Always brings the machine back to its original power up state.



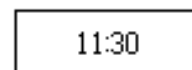
**LANGUAGE:** Return to the language screen. You can select multiple languages to use.



**HOME:** Leaves the current screen and takes you to an appropriate screen (usually to the main operating screen). Return to the main screen



**CLOCK:** Lower right button allows access to a screen for setting the correct time. While on the Main Screen it allows you to set the time and date. On all other screens it is a display only.



**EXIT:** Leaves the current screen and takes you to an appropriate screen (usually back one level or to the previous screen you were on).



**CONTINUE:** Used to restart an event or function that has been temporarily paused or suspended.

Other buttons are localized on top of or inside the screen

**ARROWS:** Pressing the arrows right or left will take you to the next or previous pages.



**COUNTERS:** Are identified with the "+" and "-" buttons in the corners. These counters may be adjusted by touching the "+" and "-" boxes.



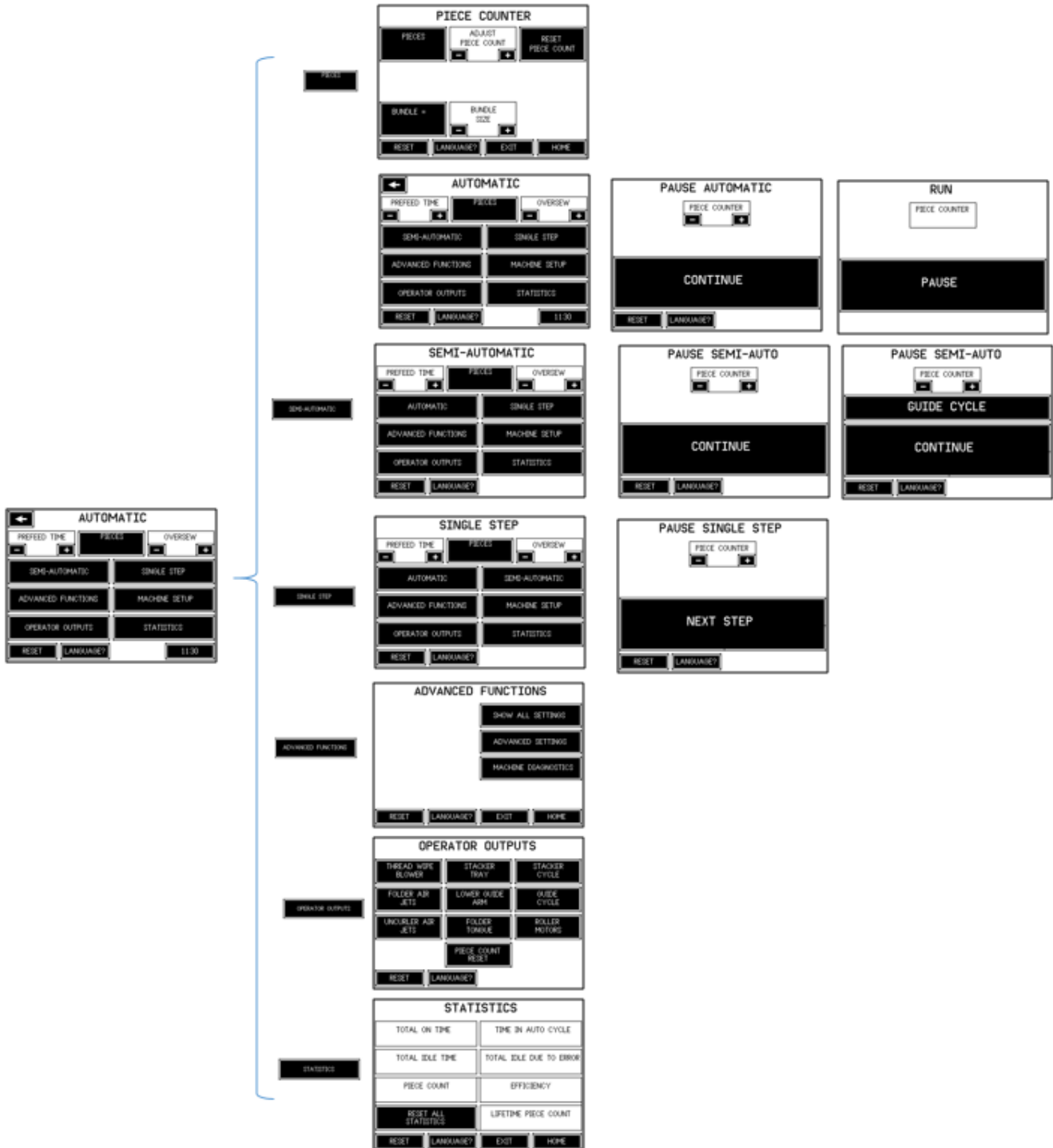
**NOTES:** When a button has a white background, the function is "ON" or enabled. A dark background indicates off or disabled. Some buttons may toggle ON or OFF, others must be held in the ON state.

## Operation Instructions

Other screens display whenever there is a machine error or other condition that prohibits the operation of the machine. Simply follow the instruction on the screens to resolve the problem. There are also advanced settings and advance functions available. These functions are only accessible by a password, and include timers that control machine hardware, input and output test screens, and machine statistics. To get to the advanced functions the appropriate password must be entered at the security screen. Security access is reset whenever the main power is turned off, or the RESET button on the main page is pressed.

### 2.2.2. Available Menus

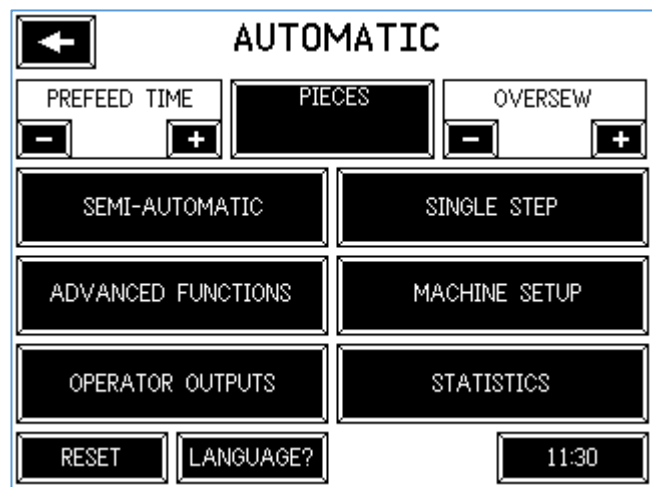
The following is a summary of the different screens and their functions available for the Sewing Operator.



## Operation Instructions

### 1. AUTOMATIC

It is the main screen. Machine will run after loading the material

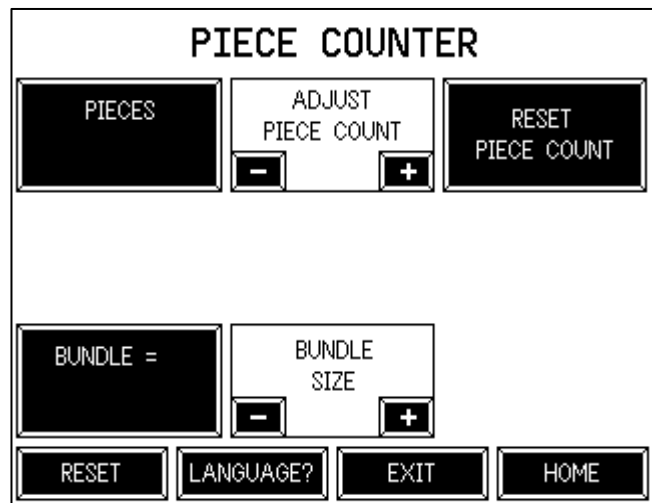


### 2. PREFEED TIME

Allows the user to control the amount of time the rollers jog before sewing begins. It is used to position the hem beginning on the garment. See seam adjustment for details

### 3. PIECE COUNTER

This is an adjustable piece counter that an increment every time the stacker operates in automatic mode.

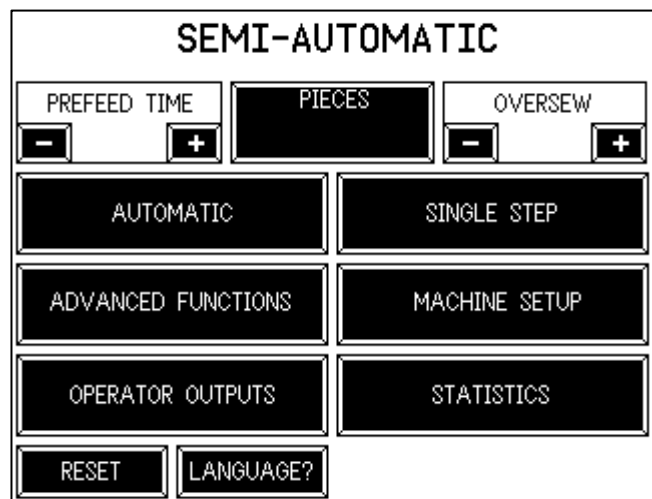


### 4. OVER-SEW

This setting allows the user to control the length of over-sew stitches at the end of the seam.

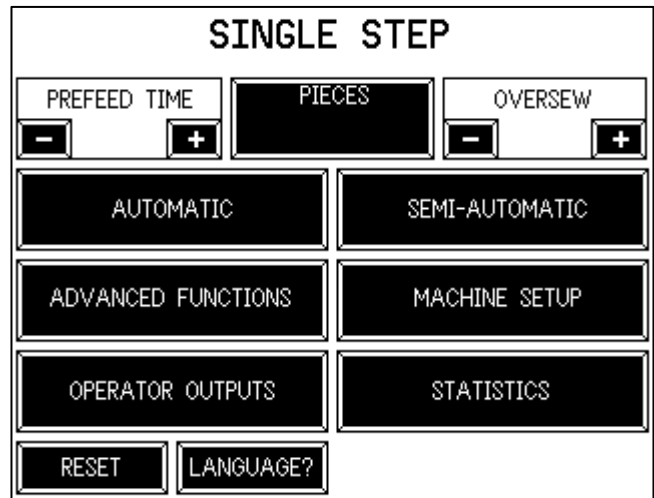
### 5. SEMI-AUTOMATIC

Pressing this button places the machine in Semi-Automatic Mode. In this Mode, the operator loads the garment, and the left roller expands to the correct tension, jogs to the start position and the machine pauses. To complete the cycle, the operator must press the continue button on the touch screen.



## 6. SINGLE STEP

Pressing this button places the machine in Single Step Mode. In Single Step Mode, the operator loads the garment, and the left roller expands to the correct tension and the machine pauses. To continue to the next Single Step pause point, the operator must press the continue button on the touch screen. In the Single Step Mode, the machine will pause at every major change point in the cycle to allow the mechanic to trouble shoot the machine.

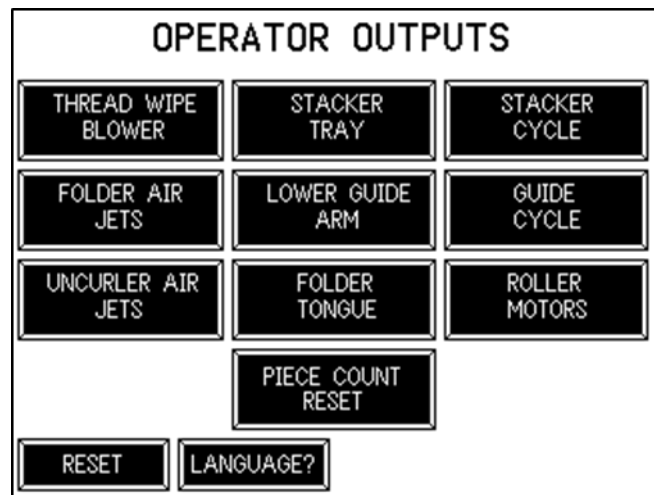


### Pause Points for Single Step Mode

- The first pause point is when the shirt is tensioned after loading.
- The second pause point is just before the machine begins sewing.
- The third pause point is when the start of sewing is detected on the bottom. (Eye #1 stays uncovered for the amount of time in setting #7)
- The fourth pause point is when the start of sewing is detected on top. (Eye #4 becomes uncovered for the amount of time in setting #8).
- The fifth pause point is just before the wiper arm fires.
- Advanced Functions: This button takes you to the Advanced Functions screen. Mechanic security level required. (See page 20)
- Machine Setup: This button takes you to the Machine Setup screen.
- Operator Outputs: This button takes you to the Operator Outputs Screen. In the Operator Outputs Screen the operator is able to manually cycle various machine outputs and reset the piece counter.
- Statistics: This button takes you to the Statistics screen which displays statistical information on the operation of the machine. Resetting the statistics requires a supervisor security level.
- Automatic: Machine runs through the entire cycle without pausing

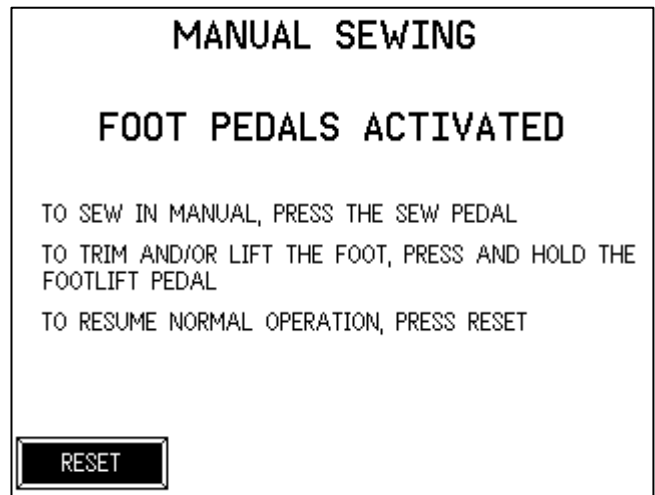
## 7. OPERATOR OUTPUTS

Operator will be able to activate some machine functions. To RESUME normal operation reset needs to be pressed



## 8. MANUAL SEWING

This screen show up every time the pedal is activated. To resume normal sewing, RESET needs to be pressed



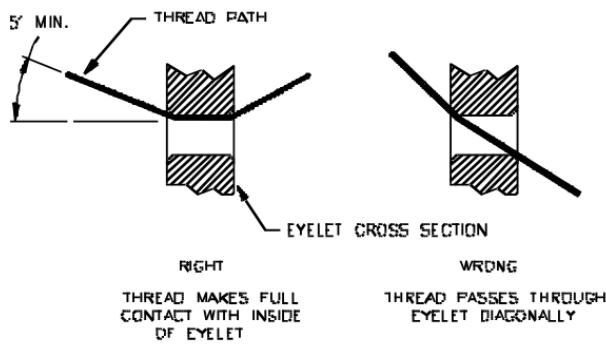
## 2.3. Threading

## Operation Instructions

### 2.3.1. Thread Break Detectors.

#### 1. Lopper Thread Sensor

This type of thread detector monitors the consistent movement of thread at a 5-degree angle (see picture) over a ceramic surface. With the unit running in manual mode, the three LED's on the detectors must not be on. The presence of a red light on any of the detectors indicates thread breakage or mis adjustment, thus causing the unit to stop.

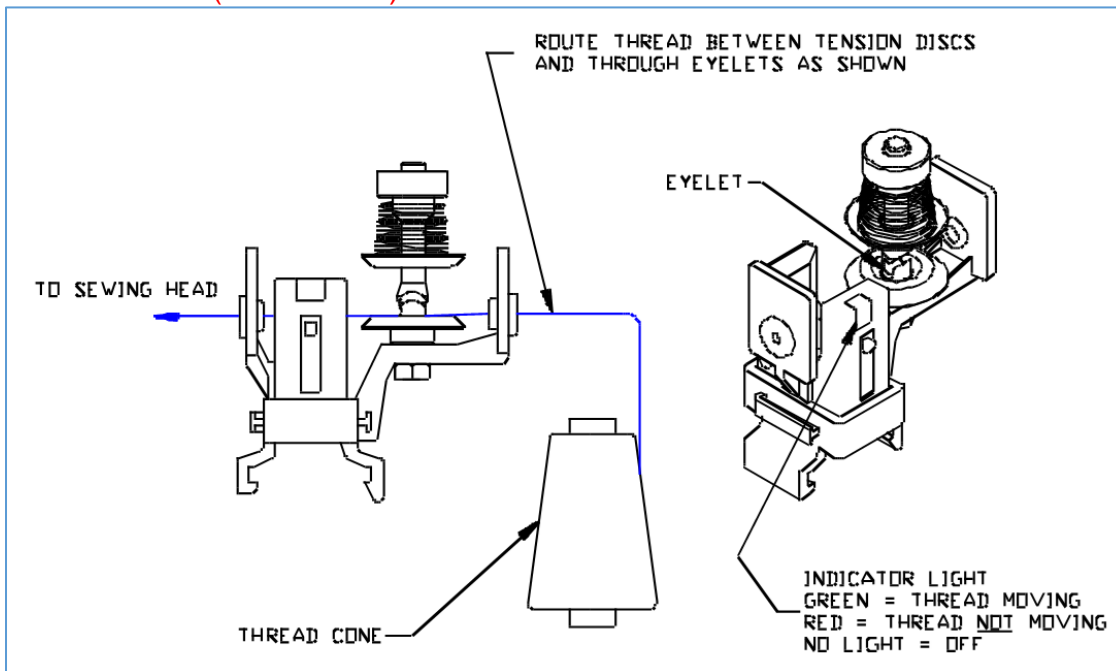


CROSS SECTION OF THREAD EYELET SHOWING RIGHT AND WRONG THREAD PATH.



#### 2. Needle Thread Sensor

Part Number: (4003-3WT2)



## 2.4. Sewing

An electronically controlled workstation for hemming circular shirt bottoms. This unit incorporates a two-needle cover stitch sewing head with an optional left-hand knife with electro-pneumatic expansion rollers for size control, a state-of-the-art edge guiding system, a fabric folding system, and an automatic stacker.

### 2.4.1. Sequence

A tubular or side-seamed body is loaded over the expansion rollers. When loaded, the rollers expand to the proper tension. Motorized rollers index the shirt under the presser foot, and the sewing cycle is initiated. The operator is free to load a second station. The start of the hem is sensed, and the end of the garment is perfectly over-sewn (with stitch-condensing if desired). The threads are trimmed, and the garment is automatically stacked.

### 2.4.2. Without Top Guide

- Load the garment onto the rollers until eye #2 is covered.
- The left roller expands until the tension switch makes contact.
- The pre-feed jog cycle is initiated and continues for the time set in Setting #2 (Pre-feed Jog Time). During the jog cycle, the lower (body) guide is guiding the fabric using eye #1 (the bottom guide eye). All the air jets turn on.
- At the end of the jog time, if the folder is loaded, the machine begins the automatic sewing cycle. During the first stage of the automatic sewing cycle, the lower (body) guide is guiding the fabric using eye #1 (the bottom guide eye). When the sewn seam is detected by the eye#1, the second stage of the sewing cycle begins.
- During the second stage, body guiding is now controlled by eye #2 (the finish guide eye). This stage of the automatic sewing cycle continues until eye #4 (the seam detect eye) goes light (is uncovered) and the third stage of the automatic sew cycle begins.
- During the third stage of automatic sewing, the body guiding is still controlled by eye #2. Sewing continues until Setting #11 (Over-sew Length Adjustment) is complete. The cycle is finished with stitch condensing (if enabled), under trimming and stacking.



## With Top Guide

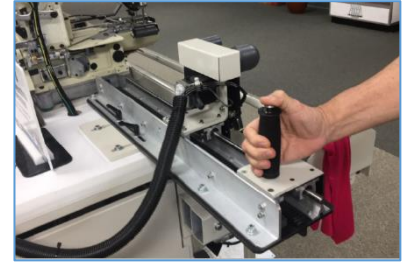
- Load the garment onto the rollers until eye #2 is covered.
- The left roller expands until the tension switch makes contact.
- The pre-feed jog cycle is initiated and continues for the time set in Setting # 2 (pre-feed jog time). During the jog cycle, eye #3 under the folder must change states (light to dark or dark to light) twice - this ensures that the folder is properly loaded, and the guiding system is functioning correctly. All the air jets turn on.
- At the end of the jog time, if the folder is loaded, the machine begins the automatic sewing cycle. During this first stage of the automatic sewing cycle, the upper (hem) guide is guiding the fabric using eye #3 (the fiber optic eye in the folder). The lower (body) guide is guiding the fabric using eye #1 (the bottom guide eye). When the sewn seam is detected by the lower guide, the second stage of the sewing cycle begins.
- During the second stage, Upper guiding is still controlled by eye #3 but lower guiding is now controlled by eye #2 (the finish guide eye). Also during the second stage # 24 (Folder Tongue Open Delay) begins counting time until the folder opens. When the folder tongue is retracted, the folder jets turn off and Eye # 4 begins its function. This stage of the automatic sewing cycle continues until eye #4 (the seam detect eye) goes light (is uncovered) and the third stage of the automatic sew cycle begins.
- During the third stage of automatic sewing, Upper guiding is now controlled by setting # 9 (Final feed-in time upper guide wheel) and # 10 (Finish feed-out time upper guide wheel) and the lower guiding is still controlled by eye #2. Sewing continues until setting #11 (Over-sew length adjustment) completes. The cycle is finished with stitch condensing (if enabled), under trimming and stacking.

## 2.5. Size Adjustments

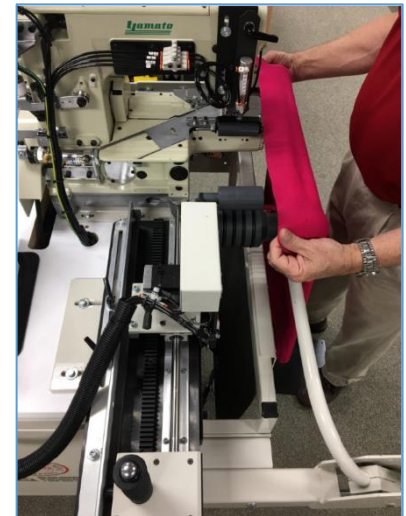
### 2.5.1. Left roller

To change shirt sizes, the left roller assembly is adjusted to fit the shirt.

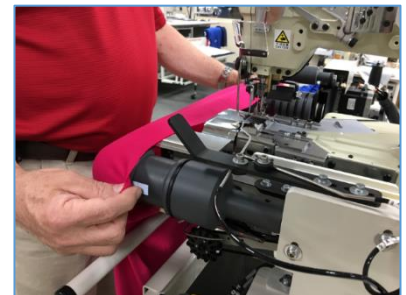
The operator pulls up on the handle on the roller assembly to move it to the position needed.



If larger sizes need to be sewn, the left roller base can be moved out by loosening the handle screws and sliding it out to the left and retightening the handle screws. Sizes up to 4XL can be sewn depending on the weight of the shirt.

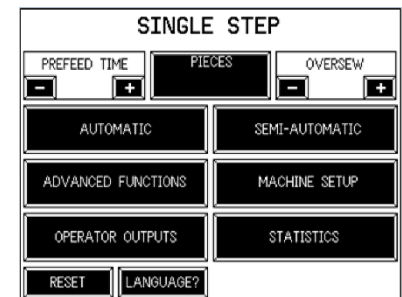


The correct position allows the shirt to be loaded without stretching the shirt over the rollers.



### 2.5.2. Pre-feed time

The pre-feed time may need to be changed accordingly to the seam start point reference. Change the Pre-Feed time at the AUTOMATIC Main Screen



## 2.6. Maintenance

It is important that the machine operator read this manual and is familiar with all the functions and safety concerns of the unit before operating.

### 2.6.1. General Safety Instructions

Maintenance should only be performed by trained, qualified personnel. Before performing any maintenance or repair work, switch off the electrical, pneumatic, etc. power to the machine at the main source and secure it with a padlock so that it cannot be switched on again without authorization. Refer to lockout/tag out procedures

- Always wear proper safety equipment when operating or performing maintenance on any equipment.
- All recommended maintenance is for a single shift schedule; adjust as necessary for a multi-shift operation.
- Equipment should not be used for purposes other than designed or specified.
- The machine shall be switched off, come to a standstill and be secured so that it cannot be switched on again inadvertently before starting any maintenance work whatsoever.
- Use proper lockout/tag out procedures to secure the machine against inadvertent startup.
- Remove any oil, grease, dirt and waste from the machine, particularly from the connections and screws, when starting the maintenance and/or repair work.
- Do not use any corrosive-cleaning agents.
- Use lint-free rags.
- Retighten all screw connections that have to be loosened for the maintenance and repair work.
- Any safety mechanisms that have to be dismantled for setting-up, maintenance or repair purposes must be refitted and checked immediately after completing the work

### 2.6.2. Preparation

Move front guide and front Roller



Open all sewing head covers





# Preventive Maintenance 8 Hrs

<b>Model:</b> 12788	<b>Required Materials</b>
<b>Serial #:</b>	
<b>Operation:</b> Bottom Hemming	
<b>Sew Head:</b>	
<b>Serial #:</b>	
<b>Needle:</b> SNUY128GAS-12 80	

<b>Before starting the day's shift with "The Machine Off"</b>	
.- Wipe with a clean cloth lents of all electric eyes and reflecting tapes	
.- Check for liquid waste in the air filter and drain if necessary.	
.- Check the oil level in the lubrication tank and add if required. Keep Level between lines H and L of oil gauge	
Clean filter on waist container. Dump as necessary	
<b>After a day's shift with "The Machine Off"</b>	
.- Check for thread accumulation on rollers, pulleys and the moving parts	
.- Open covers, blow out and wipe with a clean cloth the machine and remove any dirt or tangled threads. Clean sewing motor ventilation	
.- Cover the machine and notify the supervisor of any unusual noise or abnormality that is present during the working shift	

### 3. SERVICE

**NOTE:** Maintenance should only be performed by trained, qualified personnel.

#### 3.1. Lockout/Tagout Program

"Lockout/Tagout (LOTO)" refers to specific practices and procedures to safeguard employees from the unexpected energization or startup of machinery and equipment, or the release of hazardous energy during service or maintenance activities. This requires that a designated individual turns off and disconnects the machinery or equipment from its energy source(s) before performing service or maintenance and that the authorized employee(s) either lock or tag the energy-isolating device(s) to prevent the release of hazardous energy and take steps to verify that the energy has been isolated effectively. The following references provide information about the LOTO process.

Equipment Energy Control Procedure Lockout/Tagout Program				
Description: <b>Bottom Hemmer</b>		Model: <b>12788</b>		
Manufacturer: <b>Atlanta Attachment Co.</b>		Location:		
Energy		Location	Magnitude	Control Method
Electrical:	X	Disconnect/Ctrl Box	<b>220V</b>	Lockout & Tag
Pneumatic:	X	Main Regulator	<b>90 PSI</b>	Lockout & Tag
Gravity:	X	Rollers		
Remember to Release All Stored Energy!				
<b>Shutdown Procedure:</b>				
Inform all affected personnel that the machine will be in Lockout status. Turn the power and pneumatic disconnects to the OFF position. Fill out the tag with necessary information of the Lockout. Install the Lockout device. Verify all stored electrical energy has been released by pressing the power on button. Also, use meter to test circuits in the electrical panel to insure stored energy is released there as well. Perform necessary maintenance, services and/or repairs.				
<b>Startup Procedure:</b>				
Inform all affected personnel that the Lockout of this machine is being removed. Replace any guards or safety devices which may have been removed during maintenance. Remove the Lockout device and tag. Turn the power and pneumatic disconnects to the ON position. Push the green button on the back of the control panel to turn the machine on. Inform all affected personnel that the Lockout has been removed and that the machine is ready for normal production operation.				

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

## 3.2. Mechanical

**NOTE:** All maintenance should be performed by a qualified service technician.

### 3.2.1. Roller Set Up

The rollers should be parallel to the sewing head. The ends of the rollers do not need to be aligned with each other.

**Note: Large O-rings located on the guide rollers should be replaced on the average of every 6 months or more frequently if they become hard and slick.**

They will naturally harden due to climate, heat and dust. The softness and sticky surface of new O-ring's has a greater ability to hold the shirt from falling off the rollers with less air pressure used to extend the left roller

#### 1. Left Roller

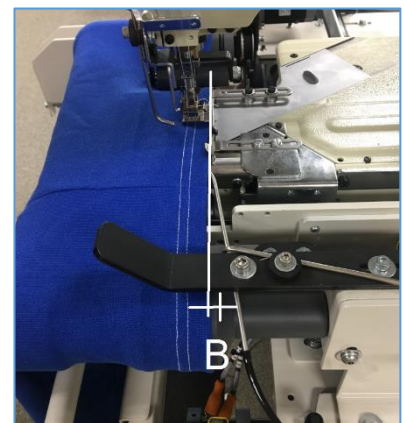
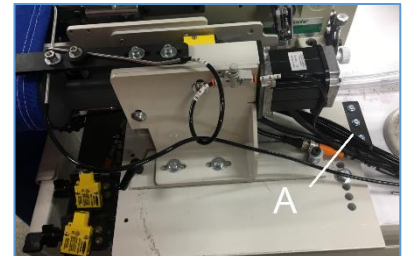
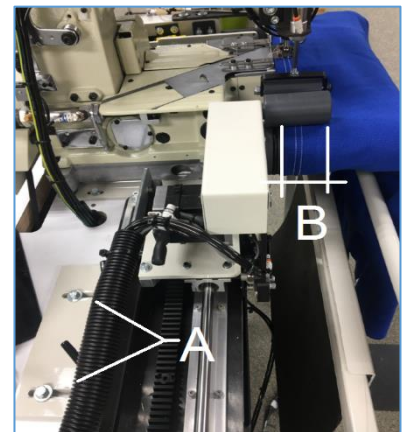
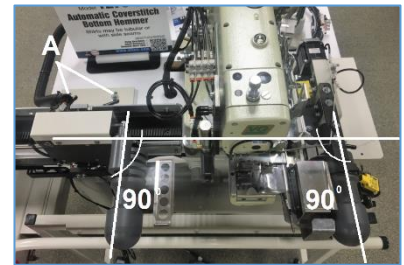
The left roller position is set using the base plate with slots mounted on the tabletop.(A)

It should be set so that the hemmed edge should be  $\frac{1}{2}$  to  $\frac{3}{4}$  of the length under the pinch roller. (B)

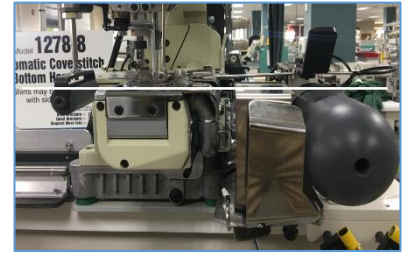
#### 2. Right Roller

The right roller position is set by the stop block screwed into the tabletop.

The upper right edge needs to be set  $\frac{1}{8}$  on the right of the sewing guide

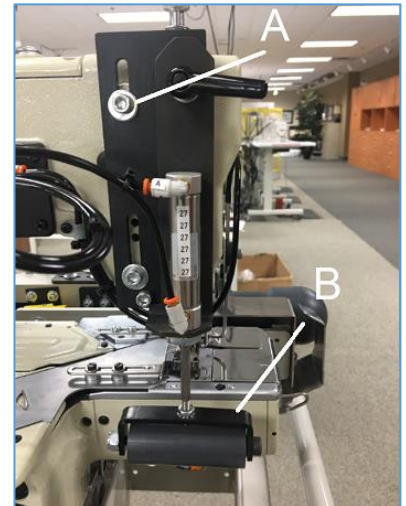


The high of the roller need to be parallel with the throat plate



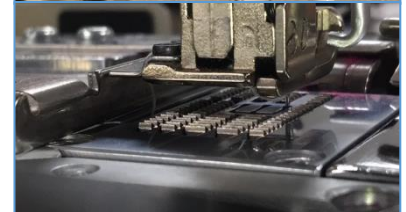
### 3. Tension Roller

The Tension Roller (B) needs to be aligned with the sewing head. The bracket should be at its maximum height (A)

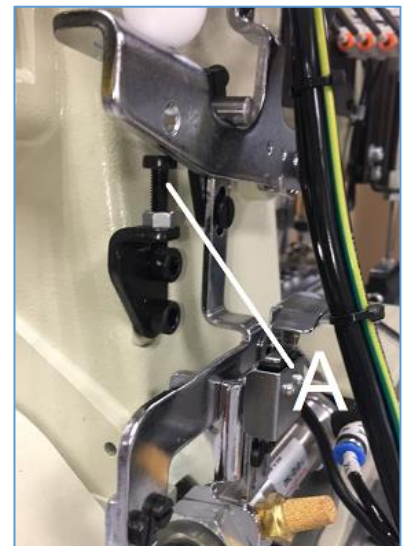


#### 3.2.2. Presser Foot Height

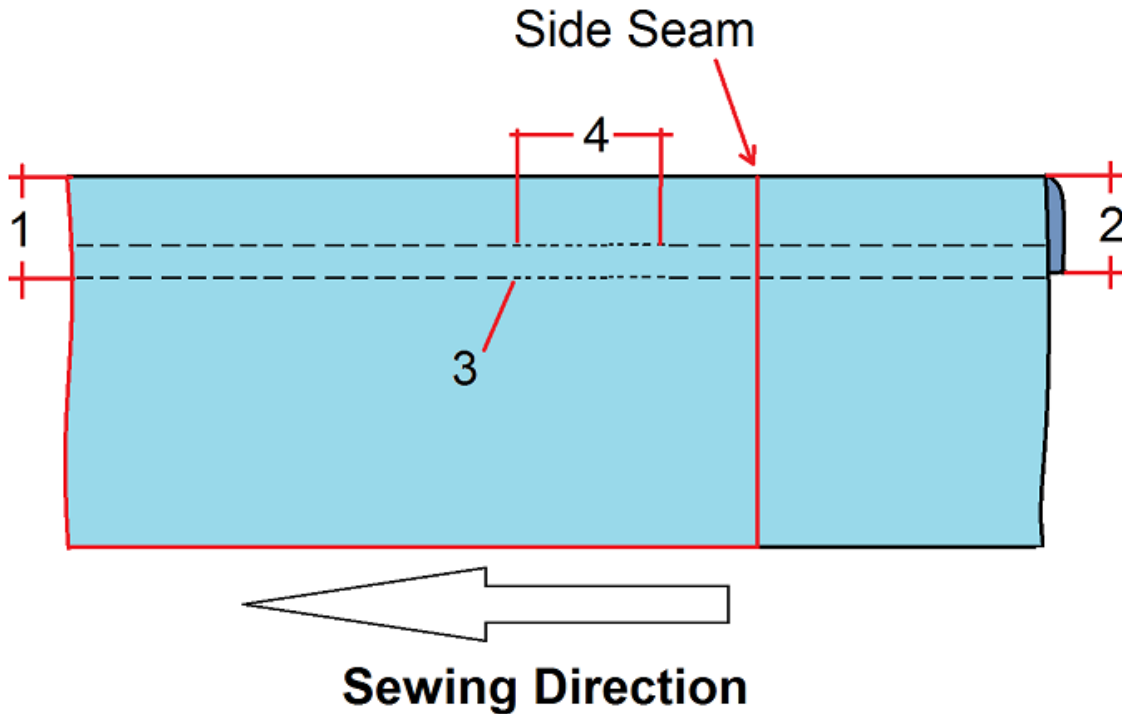
Its maximum upper position should not be above the edge guide



Adjustments are made to the limit screw (A)



### 3.2.3. Seam



#### 1. Seam Margin

The seam margin is the distance from the left needle to the folded edge of the material. If it is larger than the distance from the left needle to the right edge of the foot, an extension plate cut to the size necessary must be added to the foot. The sewing head edge guide is aligned with the edge of the presser foot plate.

#### 2. Cutting Margin

The cutting margin is determined by the knife position in relation to the needles. If the knife is set to its right most position against the throat plate, the raw edge of the material will be covered by the cover stitch. If the knife is set aligned with the left needle, then the raw edge will be in line with the left needle stitch line. If the knife is aligned left of the left needle, then the raw edge will be outside of the cover stitch.

#### 3. Seam Beginning

The seam beginning is set by the Pre-feed Time on the screen. The shirt is usually loaded front side up, and the Pre-feed Time is set so that the hem start is just before the left side seam. If it is preferred, the start of the hem can begin at the side seam. There is a variance in the start position because of variances in the shirt size and amount of stretch in each shirt.

#### 4. Seam Over-sew

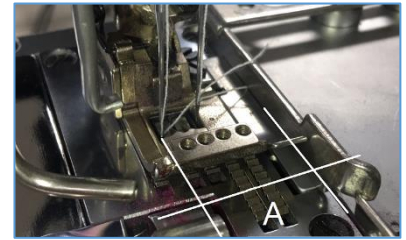
The seam over-sew is set by the Over-sew setting on the screen. When the hem begins to uncover eye # 4 behind the right roller, the over-sew count begins. It is counting stitches. The higher the number set in the counter, the longer the over-sew will be.

### 3.2.4. Adjustments

#### 1. Changing Seam Margin

To change the seam margin, a different extension plate must be put on the foot, or a foot with the correct size plate on it can be swapped out.

The edge guide on the sewing head must be adjusted to the new foot. (See right roller adjustments) The right roller assembly must be aligned to the repositioned edge guide. The assembly can be moved by loosening the 2 ¼-20 bolts that hold the assembly to the pivot plate. The edge guide eyes #1 and #2 must also be adjusted to the new position. The folder flag may need to be repositioned, depending on its alignment with the knife and possible interference with the sewing head edge guide.



#### 2. Changing Stitch Length

To adjust the stitch length on the 1278-8 follow this steps

A. Set the stitch length on the sewing head using the adjustment knob on the front of the head.

B. Run a piece of material manually without the rollers until you get the stitch length required

C. Load a sample shirt and sew the hem with including the rollers

D. Watch the material as it sews.

- If the material tries to pull out from under the foot as it sews, the rollers' speed is too fast.
- If the material is loose between the foot and the pressure roller behind the foot, the rollers' speed is too slow.

For a stitch length of 10 spi., the driver box should be set around 120 – 125 to start.

- If the stitch length is changed, the roller speed has to be changed.
- If the stitch length is made longer, the roller speed will need to be increased.
- If the stitch length is shortened, the roller speed will need to be decreased



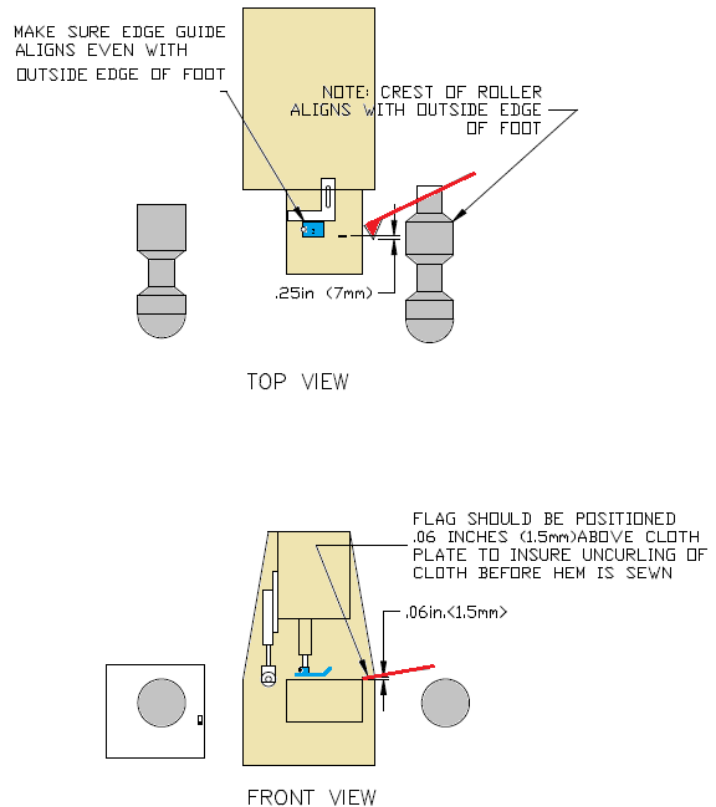
## Service Instructions

### 3.2.5. Folder Flag

If the roller crest is lined up inside the right edge of the foot, the hemmed edge may not uncover eye # 4 when it comes over the top of the roller. The hem beginning won't be detected, and the hem will continue to roll over.

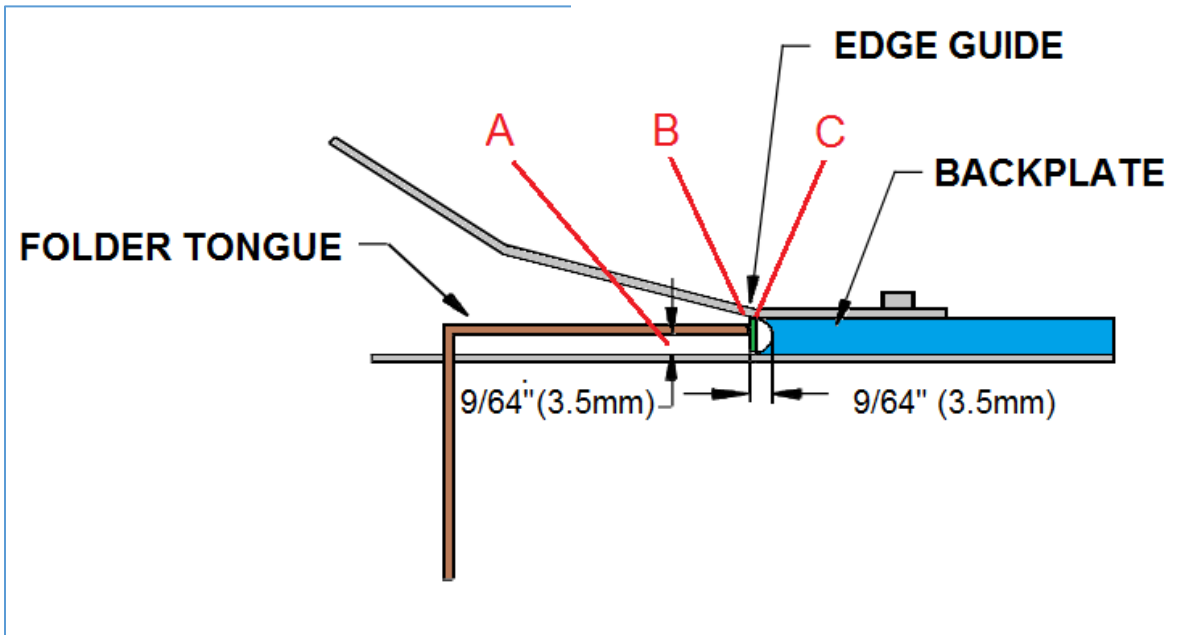
If the roller crest is lined up outside the right edge of the foot, the flag may have difficulty getting the raw edge flat before it goes through the knife and under the foot. The hem quality will be poor.

When the hem beginning comes over the top of the roller, the hem edge should be left of the roller crest on the flat part of the roller.



### 3.2.6. Folder Settings

**Note:** Only apply to machines with a top guide

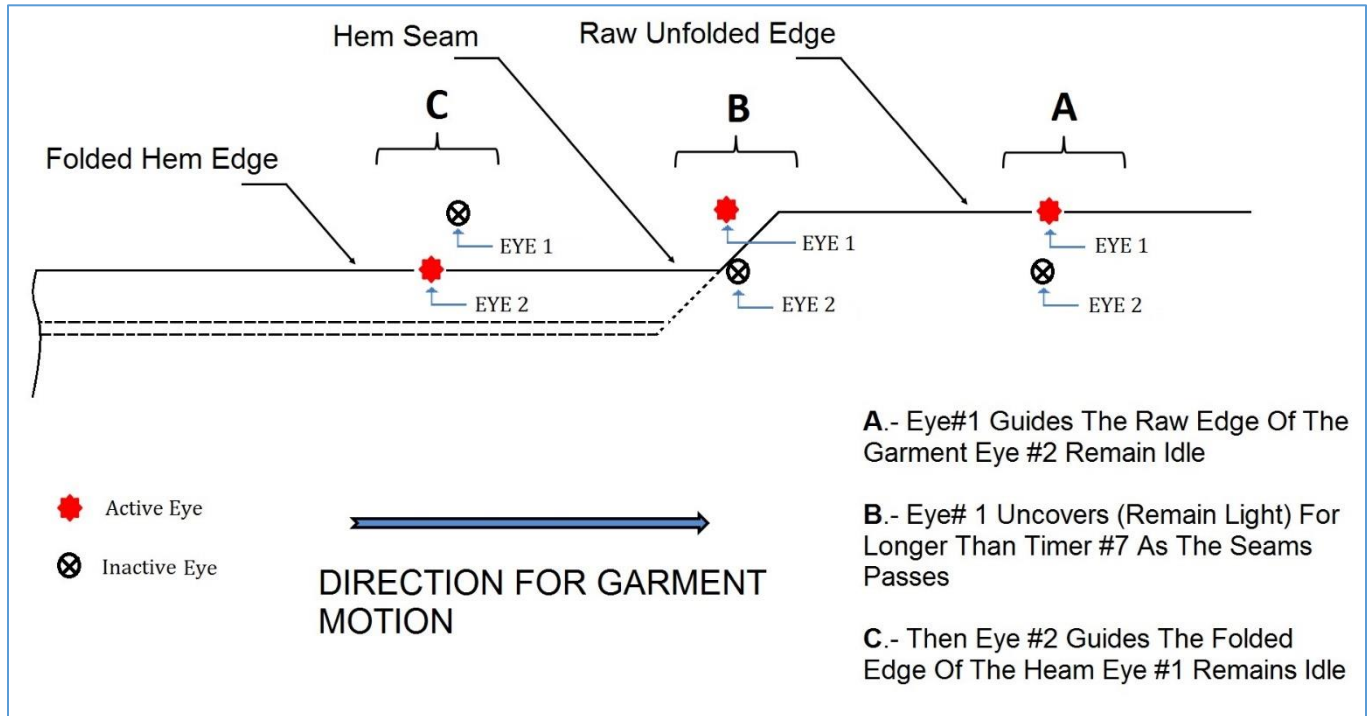


1. Set the right edge (A) of the FOLDER TONGUE even with the right edge of the presser foot and 9/64" (3.5mm) above the folder bottom.
2. Adjust the folder BACK PLATE so that there is about 9/64" (3.5mm) clearance between the right edge of the FOLDER TONGUE and the left edge of the BACK PLATE. (B) Make sure that the BACKPLATE is parallel with the FOLDER TONGUE and with the presser foot.
3. Adjust the EDGE GUIDE so that it rests against the right edge of the presser foot. (C)

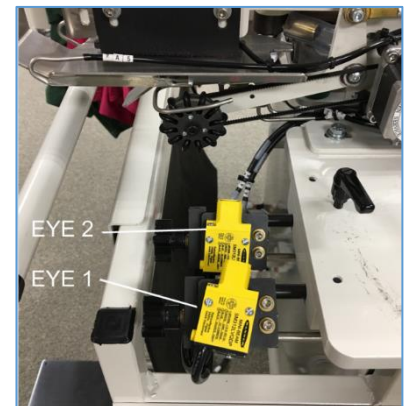
### 3.2.7. Upper Guide

**Note:** Only applies to machine models with a top guide

### 3.2.8. Seam Detection



- Seam detection at the lower guide is accomplished by using EYE #1 (the raw edge eye).
- In normal operation, EYE #1 changes states (covers and uncovers) every 2-3 stitches.
- As the beginning of the seam passes the lower guide, the guide is unable to cause EYE #1 to change states within Setting #7 and the seam is detected. (See Advance Settings 1)
- During Setting #6, if EYE #1 fails to change states within Setting #22 then jam detection will stop the machine, the screen will indicate failure of the lower guiding. (See Advance Settings 3)



### 3.3. Pneumatic

**NOTE:** All maintenance should be performed by a qualified service technician.

#### 3.3.1. Air Maintenance Unit FR

The FR (Filter Regulator).unit assembly is located behind the table. It have3 components the Pressure Relief Valve **(A)** , the Pressure Regulator **(B)** and the Air Filters **(C)**. This unit do not require an Air lubricator

##### 1. Pressure Relief Valve

Single action operation with a simple turn. It isolates the supplied pressure in the pneumatic system and exhaust downstream pressure for maintenance purposes. The unit can be locked in the exhaust position. Air flow direction is easily identified by handle orientation and labelling. It is part of the FR

##### 2. Pressure Regulator

The purpose of the regulator is to keep the operating pressure of the system (secondary pressure) virtually constant regardless of fluctuations in the line pressure (primary pressure) and the air consumption. The presser regulator is set to 90 psi.

##### 3. Air Filters

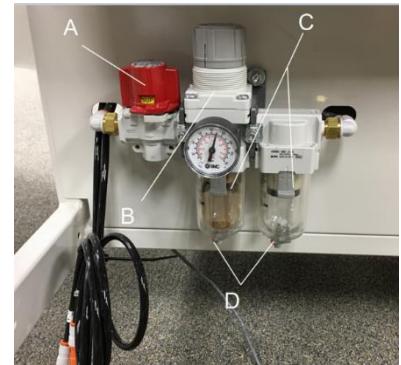
Clean air from your compressed air system is essential for the safe and efficient operation of this equipment. This unit has 2 compressed air filters. They remove contamination from compressed air after compression has taken place.

Harmful contaminants like oil, dust, dirt, rust, and water-alone or in combination-can attack your system and clog sensitive pneumatic parts.

- It can reduce the efficiency of the unit.
- Wear out seals and erode system components.
- Increase maintenance and repair costs.

Air leaving a standard screw or piston compressor will generally have a high-water content, as well as a high concentration of oil and other contaminants.

Condensate is drained manually by pushing the red bottom on the drain plug **(D)**. They require a regular maintenance schedule (i.e., once per shift).

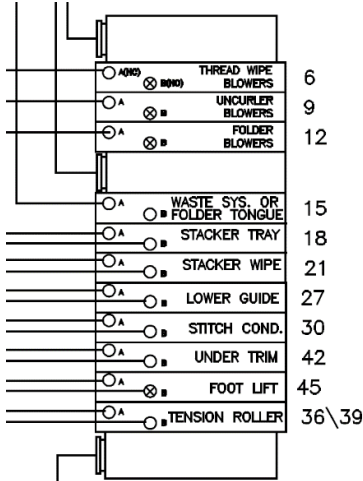


## Service Instructions

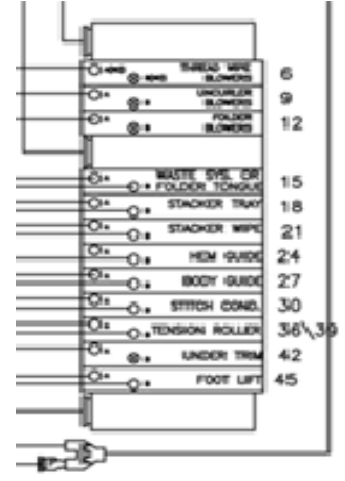
### 3.3.2. Solenoid Valve Stacking Manifold

They are located inside the control box. Control System voltage is 24DC  
 Each valve can be activated manually by pushing the blue bottom. Red light means the valve is energized

Dwg 125394C  
 Valve Stack  
 Without Top Guide



Dwg 125395C  
 Valve Stack  
 With Top Guide



### 3.3.3. Air Pressure Switch.

It is located inside the control box. This Sensor responsible for the detection of the secondary air pressure if it does not reach the pre-adjusted value. Connected to module #5 on the Serial bus system. For more details of connections see plumbing diagram located at the ends of the Spare Parts Book. Part # AAVF51FM1B



Note: Gateway Control models will use a 4080-200 air pressure module



### 3.3.4. Waste Venturi

The purpose of the waste venturi is to pull the trimmings away as they're cut off of the shirt. The air flow should be enough to get the material from the head to the waste can.

- If it is set too high, it will pull the edge of the garment into the knife and cut a hole in it.
- The operator needs to make sure that the trimmings aren't very long because that can also pull the garment into the knife.

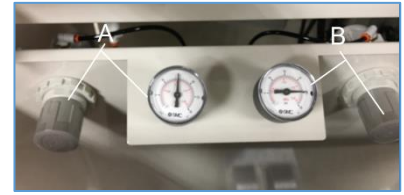


## Service Instructions

### 3.3.5. Pressure Regulator

Pressure regulator **(A)** controls the air pressure on the downside of the tensioning cylinder. Pressure value is indicated on manometer A

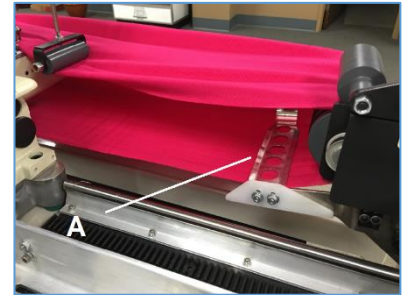
Pressure regulator **(B)** controls the air pressure on the upside of the guide wheel cylinder. Pressure value is indicated on manometer B



#### 1. Tension Bar Cylinder

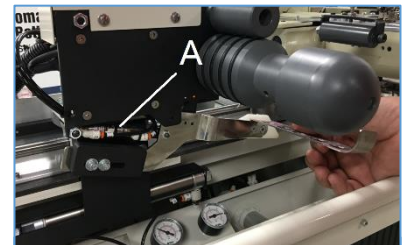
Apply tension on the shirt to control it.

Normal setting is 15 psi. The pressure should be sufficient to keep the shirt on the rollers and under control without excessive stretching.



Glass Lined expansion cylinder part # AACE9D0.5U

- If the pressure is too low, the shirt won't stay on the rollers and the guide wheel can't control the shirt.
- If the pressure is too high, the shirt will be stretched, and the finished hem will be wavy. The guide wheel will have a hard time guiding the shirt because of the tension.



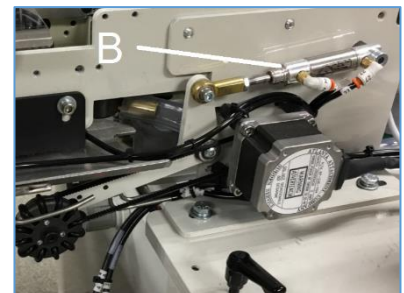
#### 2. Lower Guide Cylinder

Apply pressure to the wheel that puts on the material to guide it. Normal setting is 20 – 25 psi.

The pressure should be enough to keep the wheel in contact with the plate.



- If the pressure is too low, the wheel won't put enough pressure on the material to move it as needed. The wheel will brush the material instead of moving it. This will cause lower guide jam errors because the material doesn't move in response to the wheel.
- If the pressure is too high, the wheel will stretch the material as it is sewing and will affect the hem size consistency and the end seam alignment. It can also cause problems at the edge trimming knife.

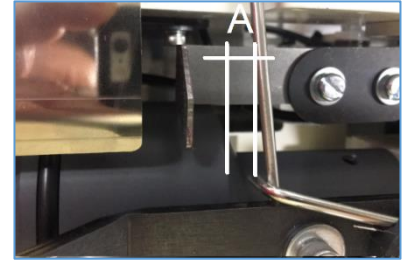


### 3.3.6. Blowers

#### In front of guide

Air in front of guide is the last jet to get the curl out before the guide uncurling flag. It is aimed to blow down across the beveled surface of the right roller.

The air flow should be enough to uncurl the material as it passes the air jet.



#### Flow to Low:

If it is too low, the material will remain curled up and may get sewn into the seam curled.

#### Flow to High:

If the flow is too high, it can affect the lower guide wheel control of the material.

#### Outer Uncurl Jets

Outer uncurl jets make the edge of the material lay out flat so the raw edge eye #1 can see it. It controls the lower guide wheel direction. The air flow should be enough to uncurl the edge of the material so the guide wheel can control the material accurately.

#### Flow to Low:

If the flow is too low, the material edge will be rolled and there will more material in the system than the guide can uncurl, and it will be sewn into the hem.

#### Flow to High:

If the flow is too high, the guide wheel will be pulling more material out of the system to overcome the material pushed in by the jet.

#### Inner Uncurl jets

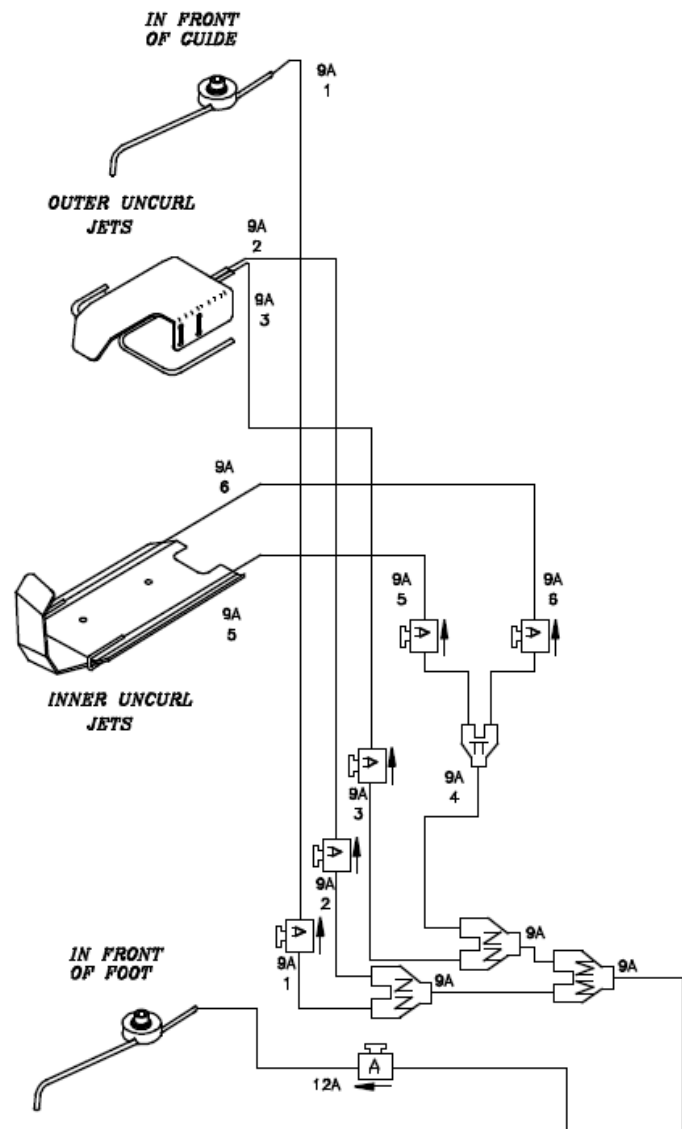
Inner uncurl jets mainly there for reverse curl material. With standard curl material, they can be turned off. They are usually set at a minimum to aid the guide wheel.

#### Flow to Low:

Nothing happens if the flow is too low.

#### Flow too High:

If they are set too high, the edge guide eye may not see the seam beginning and fail to shift the control to the hem edge guide eye # 2. Then the material will continue to run over and over.



## Service Instructions

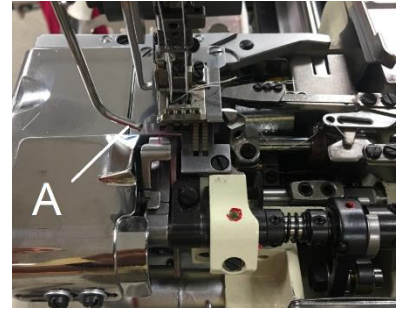
---

### In front of the foot

Air jet in front of the foot is used to help get the material under the foot. It is aimed across in front of the foot to help get the material over the knife and under the foot.

### Flow:

The flow should not be aimed down into the edge guide because it will cause misalignment at the over-sew. The flow should be light because it's only used to get the material under the foot



## 3.4. Electrical

**NOTE:** All maintenance should be performed by a qualified service technician.

### 3.4.1. Ground

This unit need to be connected to ground (earth) for several reasons. In mains powered equipment, exposed metal parts are connected to ground to prevent user contact with dangerous voltage when electrical insulation fails. In electrical power distribution systems, a protective ground conductor is an essential part of the safety Earthing system. Connection to ground also limits the build-up of static electricity



### 3.4.2. Main Circuit Breaker

The main power On/Off switch is on the inside of the control Panel. It is used to turn the power on to the whole machine. This machine requires 220V Single Phase. If you have problems with the power not coming on when the ON button is pressed you may check this switch by doing the following.

**ATTENTION. Make sure that the machine is unplugged before proceeding and that all lock out/tag out procedures have been correctly followed (See to Lockout tag out procedure)**



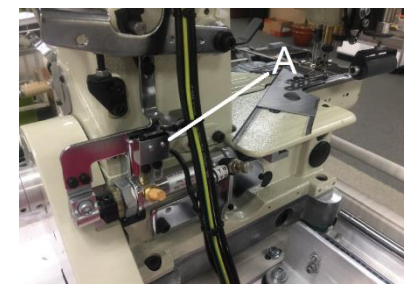
### 3.4.3. Main Power Contactor.

When you press the green button, it activates the contactor to turn on the power to the machine. It also functions to protect the unit after a power failure. It will keep the machine without power until the green START button is pressed.



### 3.4.4. Knife Switch

Control that the cutting cycle is finished. If sensor is not activated after thread trimming machine will not run

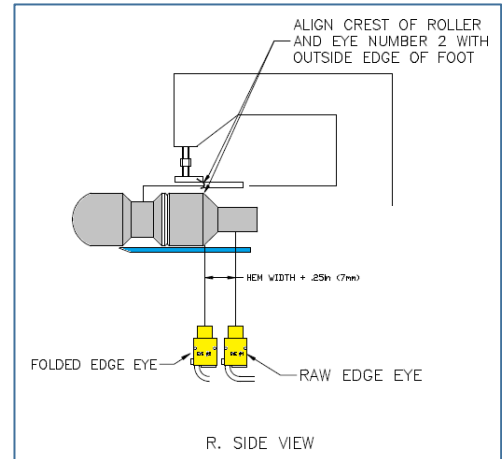


### 3.4.5. Electric Eyes

#### Raw Edge Eye #1:

The function of eye number one is to control the position of the raw edge of the fabric at the lower guide wheel. This ensures there is enough fabric on the right roller to allow for proper hemming. This eye controls the lower guide until the beginning of the seam is detected.

The setting of eye number one should position the raw edge of the garment one hem width plus 1/4" to the right of the folder back plate. For example, the setting of eye number one for 3/4" hem width is one inch to the right of the folder back plate. Eye number one should be adjusted far enough to the right to ensure that the general motion of the upper guide is pulling the fabric out of the folder.

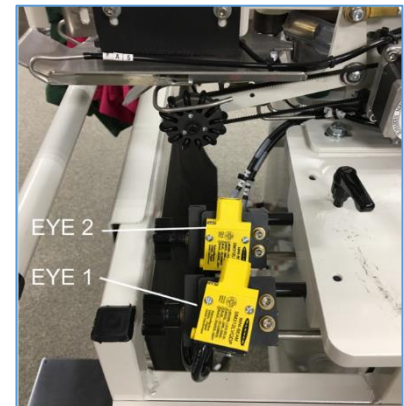


#### Folded Edge Eye #2:

The function of eye number two is to control the position of the folded edge of the hem on the right roller. This aligns the hem with the edge guide at the presser foot for proper over-sew.

This eye controls the bottom guide from seam detection to the end of the cycle.

The setting of eye number two should position the folded edge of the hem approximately aligned with the edge of the taper on the right roller, approximately aligned with the right edge of the foot. If this eye is adjusted too far to the right it can cause the finished hem to be double folded, and consequently cause a misalignment of the over-sew, and over-sew length to vary.



#### Upper Guide Eye #3:

**Note:** Only apply to machines with a top guide

The function of eye number three is to control the position of the raw edge of the fabric under the tongue of the folder. During the automatic sew cycle eye number three controls the upper guide wheel until the folder tongue is retracted.

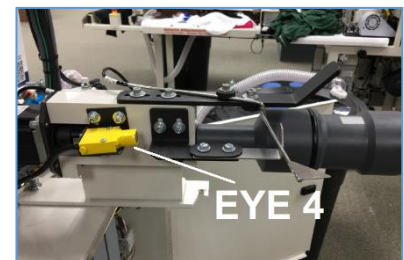
The setting of eye number 3 is typically in the center of the needles. Moving the eye to the left leaves more of a raw edge outside of the cover stitch (a fuller seam).

**NOTE** If the gain setting on eye #3 is set too low it will result in inconsistent control of the raw edge by the upper (Upper) guide. If the gain setting of eye #3 is too high the eye may reflect off of the piece.

#### Hem Detect Eye #4:

The function of eye number four is to detect the start of the seam as it come over the right roller. During the automatic sew cycle; eye number four remains dark until the start of the seam passes the reflector tongue, then eye number four goes light. Once eye number four goes light, the machine begins counting stitches to the end of the cycle. Eye number four is disabled until the lower seam detection occurs.

The setting of eye number four is in the extreme upper left corner of the reflector tongue. If it is set too low, the eye may uncover prematurely, causing variations in the over-sew length.



## Service Instructions

### Eye Sensor Adjustment

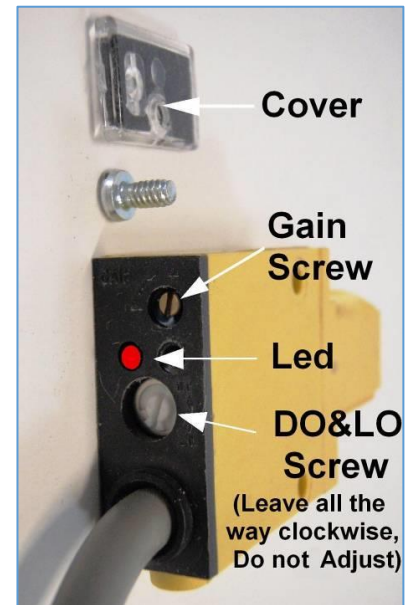
Remove the clear plastic cover from the end of the sensor. There are two adjusting screws under the cover. One is labeled “GAIN” and is used to set the sensitivity of the sensor. The other screw is labeled “DO & LO” and should always be fully clockwise.

With the end of the sensor pointing at the center of the reflective tape, turn the “GAIN” screw counterclockwise until the red LED indicator is off

Then turn the “GAIN” screw clockwise until the LED indicator comes on.

Then turn the “GAIN” screw one full turn clockwise. The LED indicator should be blinking slowly approximately 2 pulses per second. The eye on the hand wheel should be at least 2 full turns. Cover the eye so that the sensor cannot see the reflective tape and the LED should go off.

Part #FFSM312VQ



### Reflective Tape Maintenance

Use a soft cloth for cleaning. Do not use chemicals or abrasives to clean it. Avoid any contact with oils and liquids. Do not touch the tape with bare fingers. If tape is dirty or opaque, the eye may not function correctly.

#### 3.4.6. Fiber Optic Eye

**Note:** Only apply to machines with a top guide

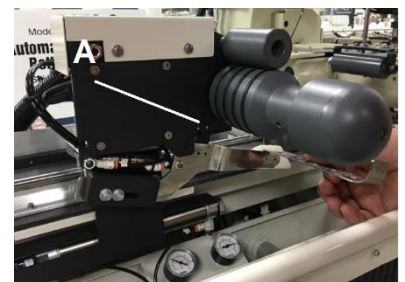
Fiber optic eye #3 in the folder: Make sure the fiber optic leads are inserted as deep as possible within the sockets of the black clamp attached to the eye. With the folder tongue “in” and the fiber optic cable looking through the slot in the bottom of the folder and reflecting off the tape on the bottom of the tongue, insert a piece of white paper between the tongue and folder bottom. Increase (turn clockwise) the gain screw until the red LED turns on. Keeping the paper in place, slowly decrease (counterclockwise) the gain screw until the red LED turns off. Then turn the gain screw one-quarter turn counterclockwise. Check the adjustment of the eye. With the tongue engaged, the red LED should blink two to three times per second and should go off when white paper is inserted into the folder. Be sure the “LO\_DO” screw is fully clockwise.



#### 3.4.7. Tension Sensor Switch

The tension sensor switch is a proximity switch mounted on the back side of the left roller assembly plate. It is covered and uncovered by an adjustable tab mounted on the tension arm. When is covered, the light on the sensor is lit and can be seen through a small hole in the plate. When the shirt is loaded onto the rollers, the left roller moves to the left and the tension arm drops, uncovering the sensor. When the tension of the shirt is enough to pick up the arm and cover the proximity switch, the left roller stops moving, and the pre-feed jogging begins.

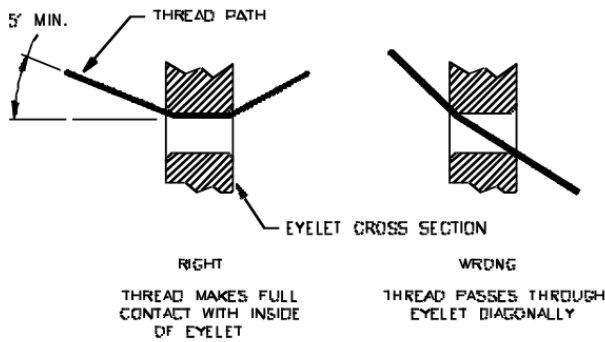
- If the shirt doesn't have enough body to overcome the tension arm pressure, a tension arm timeout error will appear.
- If the proximity switch doesn't uncover and recover, the error will appear also.



### 3.4.8. Thread Break Detectors.

#### 3. Lopper Thread Sensor

This type of thread detector monitors the consistent movement of thread at a 5-degree angle (see picture) over a ceramic surface. With the unit running in manual mode, the three LED's on the detectors must not be on. The presence of a red light on any of the detectors indicates thread breakage or mis adjustment, thus causing the unit to stop. Part # 011-132A

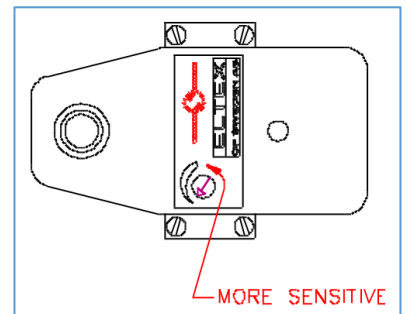


CROSS SECTION OF THREAD EYELET SHOWING RIGHT AND WRONG THREAD PATH.



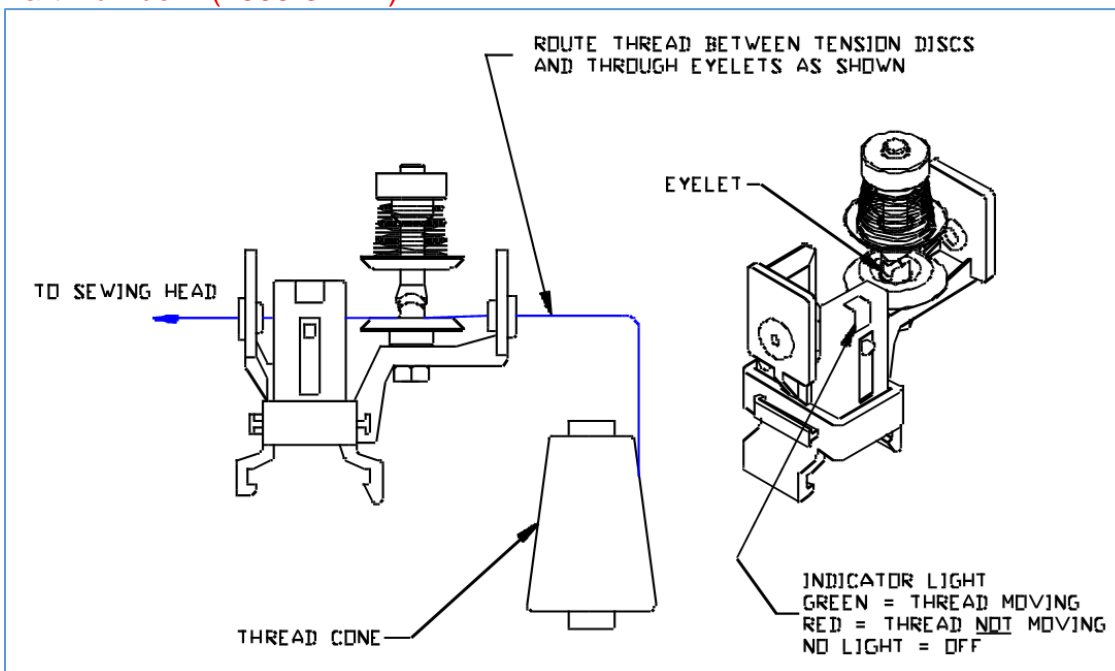
#### Adjustment.

To adjust thread detector, switch control panel to manual. Depress the chain switch to make unit run and chain-off. Take precaution that the chain is under chain puller before running. Looking at the face of the thread detector with unit running in manual chaining mode, turn blue nylon screw (see Fig. 2) counterclockwise until you see the LED light up. Turn screw clockwise until LED goes out. Turn 1/16" more CW.



#### 4. Needle Thread Sensor

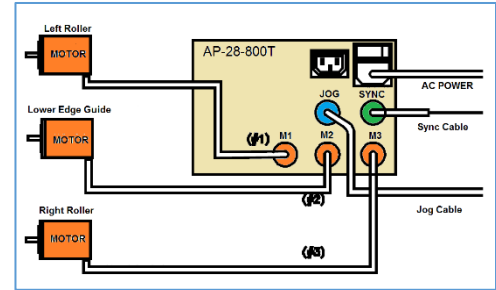
Part Number: (4003-3WT2)



### 3.4.9. Stepping Motors

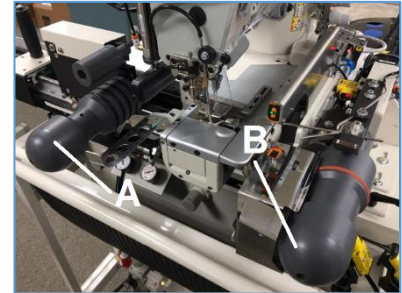
There are 3 stepping motors in the machine. Left Roller, Lower Edge Guide and Right Roller all three controlled by one Stepping Box AP-28\_800T

The left and right rollers are driven synchronously with the sewing head.



#### 1. Rollers Motors

The thumbwheel switches on the front of the control box set the speed of the rollers A and B when the head is sewing. During the loading cycle, the rollers are driven by the jog signal. They are set at 200 rpm using the front potentiometer in the box.



#### 2. Lower Edge Guide

The lower guide wheel E runs when the rollers run. It runs at a constant speed of 80 rpm using the back potentiometer (A) in the box.

The guide wheel direction is controlled by eyes 1 & 2, depending on the cycle.

During loading and initial sewing, eye # 1 looks at the raw edge of the material.

The wheel moves the material to cover the eye when it is uncovered and moves the material to uncover the eye when it is covered.

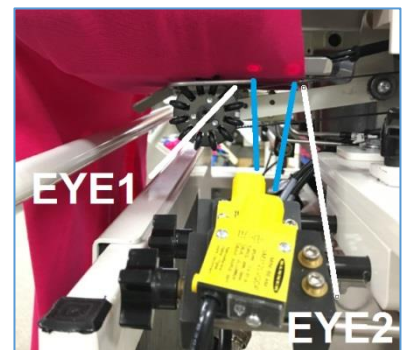
The wheel should appear to oscillate as the shirt is sewn.



When the hem beginning comes to EYE # 1 and it is detected, the guide wheel control shifts to EYE # 2.

It reads the hemmed edge of the material and controls it to the end of the cycle. I

- If the wheel is turning in one direction more than the other, there may not be enough pressure on the material to control it.
- If the material is pulled off of the roller, check EYE # 1 to make sure it is seeing the tape on the edge of the plate.



## Service Instructions

### 3. Speed of Feed vs. Speed of Rollers

In normal operation, it is necessary to have the feed rollers of the machine synchronized with the feed dogs. The unit should sew approximately the same stitch length in manual sewing as in automatic. If the synchronization is improperly set it can adversely affect the alignment of the over-sew and the quality of the sewn hem.

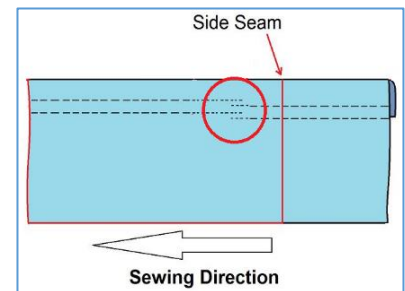
#### Feeding At a Faster Rate

If the feed rollers are feeding at a faster rate than the feed dogs, the fabric will pull away from the edge guide at the foot when the folder tongue retracts.

The fabric between the foot and the left roller will also become stretched during sewing causing the hem to pucker.



This will cause a narrower hem and misalignment of the over-sew.



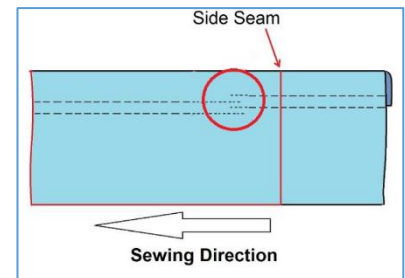
#### Feeding At a Slower Rate

If the feed rollers are feeding at a slower rate than the feed dogs, the fabric will be loose between the right roller and the presser foot. The fabric will appear to bunch up behind the presser foot.



This causes a stitch and over-sew misalignment.

Shirring can also contribute to alignment problems. Be sure that all shirring is eliminated from the feed dogs.



### 3.4.10. Steeping Motor Control Box

The control box powers the Feed Rollers and the Lower Edge guide. The amber light show that the box is energized. Part Number AP-28-800T)

#### 1. JOG button

Pressing the JOG button will turn on the roller motors. The three thumbwheels on this box are used to synchronize the two rollers with the sewing head.

#### 2. Thumbwheels

The thumbwheels on the box adjust the synchronous speed of the feed rollers while sewing (typically set to 12 for 10 spi).

- If you change the RPM of the sewing head, there is no need to adjust the thumbwheels; they will remain synchronized to the head.
- If you change the sewing stitch length, it will be necessary to adjust these numbers to re-synchronize the rollers with the sewing head.
- Decreasing the number makes the rollers go slower. For example, if you changed the stitch length from 10 SPI to 11 SPI, you would need to decrease the number in the thumbwheels by 10% to match the 10% shorter stitch length.

#### 3. Potentiometer

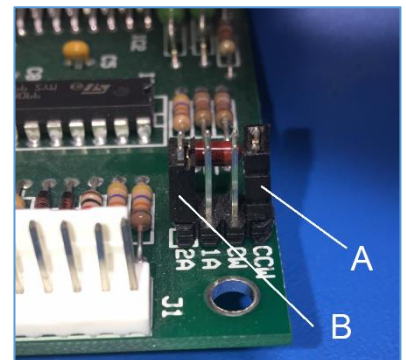
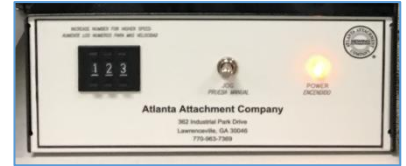
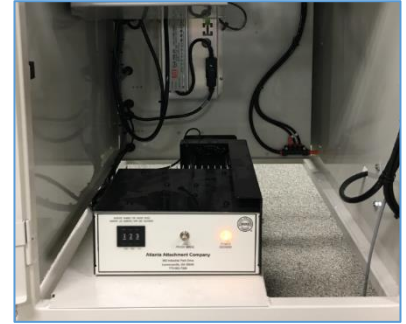
Inside the box there are 2 small potentiometer

- B: . It sets the pre-feed JOG speed of the feed rollers typically set to 200 rpm at the roller.
- A: It sets the JOG speed of the Lower Edge Guide normally set to 80 rpm at the wheel

#### 4. Jumpers

The direction of rotation of the feed rollers is controlled by the CW/CCW jumpers on the driver boards inside the box and should be set CCW. There are jumper clips for setting the motor currents on each driver board. The feed roller drivers are set to 2A.

- The top driver board powers the left feed roller and
- The bottom driver board powers the upper guide wheel.

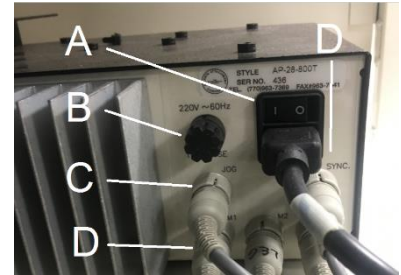


## Service Instructions

### 5. Power

The back of the boxes has an On/Off switch (A) , fuse (B) , JOG cable (C), 3 stepping motor cable (D) and Sync cables (E) .  
Leave the On/Off switch ON all the time.

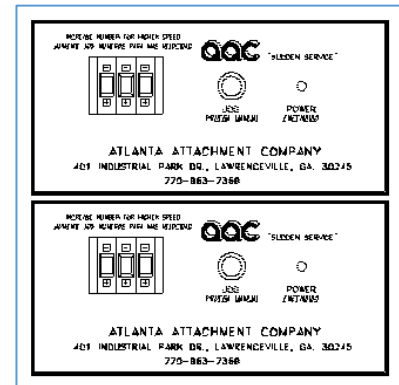
**NOTE:** When working on the box always disconnect the power cord before servicing.



### 3.4.11. Secondary Steeping Motor Control Box

**Note:** Only apply to machines with a top guide

The bottom control box powers both guide wheels. Pressing the JOG button will turn on the lower guide motor. Inside the box are 2 small potentiometers for adjusting the JOG speed (typically set to 80rpm). The direction of rotation is controlled by the computer box. There are jumper clips for setting the motor currents which should be set to 2A (1 ampere).



### 3.4.12. Efka Sewing Motor

#### 1. Programming the Code Number

**NOTE:** The parameter numbers in the illustrations below serve as examples and may not be available in all program versions. In this case, the display shows the next higher parameter number. See List of Parameters. If you have a screen with 4 digits your access code will be 3112 instead of 311

#### 2. Parameter Settings EFKA DC1500

PARAMETER	RANGE	VALUE	DESCRIPTION
Do this first	*****	****	Perform a master reset before programming, see below
290		5	Mode of operation. <b>MUST SET THIS PARAMETER FIRST!</b>
026		0	Treadle mode
111	200-9900 rpm	5000	Maximum speed when "129" is 0, 1, or 2.
161	0-1	1	Motor rotation, 0=cw/1=ccw
204	0-100	100	foot lift modulation.
270		1	Position Sensor
272	020-255	1000	Drive ratio between motor pulley and handwheel pulley. If handwheel pulley is smaller than motor pulley, increase this value to slow down sewing head until measured speed matches speed set with parameter 111. (For Yamato and Pegasus, setting should be 100; for Rimoldi, setting should be 124)
436		0	Use code "5913". This disables an input that was causing box to reset itself.
401		0-1	Save parameters
Front panel LED's:			<b>To Perform Master Reset of Parameters:</b>
LED 1:	Off		1. Power on holding down the "P" button till "COD" is displayed.
LED 2:	Off		2. Press ">>" once and enter the number "5913"
LED 3:	Off		3. Press "E" twice and "093" is displayed.
LED 4:	Off		4. Press "+" once, "094" is displayed.
LED 5:	Off		5. Press "P" to exit programming mode with all default values.
LED 6:	Off		
LED 7:	Off, Stop at needle down.		
LED 8:	On, Stop at needle up.		<b>Programming Instructions:</b>
			1. Power on holding down the "P" button till "COD" is displayed.
			2. Press ">>" once and enter the number "5913"
			3. Press "E" once and "2.0.0." is displayed. This is a parameter.
			4. Press "E" again and the value for parameter 200 is displayed.
			5. With the value on the screen, adjust to desired setting.
			6. Press "E" to enter value and continue with parameter setting.
			7. Repeat for other parameters, press "P" once when complete.
			<b>8. Run sewing head to save parameters before powering down</b>

### 3.4.13. Panasonic Motor Sewing Motor

#### 1. Programming D9 Motor

1. Turn off power to machine.
2. Hold Up Arrow button, Turn on the power
3. Display shows Axxx
4. Use + & - buttons to scroll to desired parameter #.
5. Press > to toggle to parameter value.
6. Displays shows the parameter value xxxx.
7. Use + & - buttons to change parameter value.
8. Press enter (E) button to save change.
9. Press > to toggle to back to parameter number.
10. Use + & - buttons to scroll to next desired parameter #.
11. Repeat until all desired parameters are updated. Be sure to press enter (E) after changing the parameter values.
12. Turn off the power momentarily.
13. For 1278-8 set the following parameters:
  - A 27 = 1 (Stop needle up)
  - A 29 = 1 (Rotation, 1 CCW, 0 CW)
  - A 70 = 5000 (max speed)
  - A 91 = 1 (Pneumatic solenoid foot lift, 100% modulation)
1. Turn off power to machine.
2. Hold "E" & "-" buttons, Turn on the power
3. Use + & - buttons to change parameter value to F166.
4. Press > to toggle to parameter value.
5. Use + & - buttons to change parameter value to 600 (one minute foot time-out).
6. Press enter (E) button to save change.
7. Turn off the power momentarily.

## 2. Programming D7 Motor

### Apply to Small Programmer Mpur01a10

**NOTE:** to adjust parameters after initial programming, start with step number 10

1. Turn off power to machine.
2. Plug in the small Panasonic programmer.
3. Hold ENTER and MODE "+", Turn on the power. Continue holding down buttons for 8 seconds, until 106 Y2 is displayed on screen.
4. Double-click the "ENTER" button to exit parameter mode.
5. Turn off the power.
6. Turn the speed control on the motor to the minimum.
7. Turn on the power.
8. Run the sewing head for a few seconds (at least 5) to set the pulley ratio in the Panasonic Motor. Pressing the sew pedal will cause the head to sew.
9. Turn off the power.
10. Turn on the power.
11. Press MODE "+" several times until the word parameter is displayed on the screen.
12. Double-click the "ENTER" button to enter parameter mode.
13. Using the MODE "+" and "-" buttons to locate the parameter and the DATA "+" and "-" buttons to adjust the individual parameter, set the following parameters:
  - 135 = desired RPM
  - 605 = 64 (foot modulation On-time)
  - 606 = 1 (foot modulation Off-time)
14. (Refer to this step only for Pegasus Machines with a hall effect under trimmer sensor) Set parameter 011 equal to 131. (011=3 is default)
15. (Refer to this step only for Rimoldi Machines with a hall effect position sensor) Set parameter 520 equal to 1 and parameter 523 equal to 222.
16. Double-click the "ENTER" button to exit parameter mode.
17. Turn off the power.
18. Turn the speed control on the motor to the maximum.
19. Turn on the power.
20. Test RPM of sewing head with tachometer.
21. The sewing speed shouldn't exceed the setting in parameter 135

Start delay from lifted foot is parameter 603 and is typically set at the factory default.\*

#### **Reset sequence for large programmer:**

Hold the "A", "B" and "ENTER" buttons, while turning on the power, wait 5 sec.

Press the enter button.

#### **Parameter programming sequence for large programmer:**

Hold the "D" and "ENTER" buttons, while turning on the power, wait 5 sec.

Press the enter button.

Press the backtick buttons (the two buttons on the bottom right of the programmer)

Use the "A" and "B" buttons to locate the parameter (see step 13 above) and "C" and "D" to adjust the individual parameter (see step 13 above)

### 3.5. Serial Bus

The Serial Bus System, based on only four wires, is self-diagnostic and offers helpful solutions to solve the problem. An operator using a touch screen control panel manages this rugged, uncomplicated system. Designed to international standards, this multi-lingual, easy to operate interface will allow parameters to be saved, allow technician access with password protection and offers a built-in production performance monitor which can be networked to a central computer.

A warranty of 3-Year covers all electrical components of the state-of-the-art Serial Bus Control. Controller part number is 4080-004



#### 3.5.1. Touch Screen

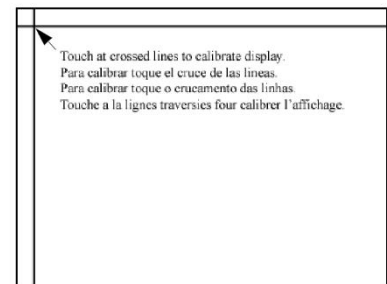
### **Caution: Do Not Use Any Sharp Objects To Touch The Screen**

#### 1. Calibration

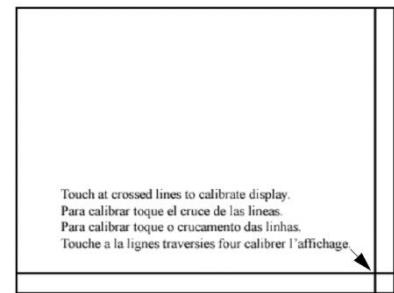
If you are having troubles locating the right place to get access to the function by touching the screen a screen calibration may be required.

Proceed as following:

1. Place one finger on the screen and hold it there while pushing the Green ON button.
2. When the screen turns light, remove your finger and the screen will display two lines, one vertical and one horizontal, intersecting at the top left corner. The text "Touch at the crossed lines to calibrate display." should appear in various languages. In older machines, there will be no text.
3. Using a small pointing device that will not puncture or damage the screen (such as a pencil eraser), touch the screen where the two lines intersect. Do this with as much accuracy as possible.



4. When the screen is touched, the display will change to two lines intersecting at the lower right of the screen.



Repeat step 4 where these lines intersect. On 004 screen all 4 corners need to be adjusted

**NOTE: The implementation of step 2, 3 and step 4 directly affects the validity of all the buttons in the entire program. It is very important to be accurate.**



5. Press the language button of your choice.



6. Press the RESET button at the lower left corner of the screen. See figure 5.



## 2. Installation

To install new screen you must follow these directions.

1. Install new screen and turn power on
2. When screen displays "Fatal Error Message" press continue
3. Enter Mechanic Security Code
4. After reading the "Warning Message" press continue again
5. Screen will begin to process the up-loading of existing program. This will take 60 - 90 seconds
6. After reading the "Last Warning Message" press continue again.
7. Screen will begin to process information again for 15 - 30 seconds
8. Reset routine will follow.  
**NOTE** Machine assemblies will reset or move to home positions
9. Screen will return to the Main Display and is ready to run.

### 3.5.2. Modules

#### 1. Module Data...4080-930

**Only used in standard S-BUS Control Packages** Stores the unique data required to operate this particular machine, such as serial number, original factory parameters, etc. This module should never be exchanged with another machine.



#### 2. Program Module...4080-150

**Only used in standard S-BUS Control Packages.** Stores the program information. It is also used to load program modifications or updates. For update procedures please refer to next chapter.



#### 3. Gateway Module...4080-900

**Only used in Gateway Control Packages.** Interface module, connects the touch screen to the serial bus control system



#### 4. Input Module ...4080-200

Detects air pressure provided to machine and sends a low-pressure signal, if it occurs to the controller



#### 5. Output Module...4080-140

They are responsible for transferring signals from the computer to the working elements such as valves, motors and relays, etc.



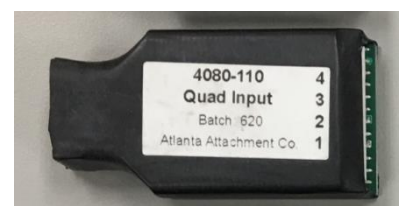
#### 6. Output Module ...4080-130

They are responsible for transferring signals from the computer to external connections, servo motor controls (electrically insulated)



#### 7. Input Module...4080-110

They are responsible for transferring signals from the machine to the computer such as switches, electric eyes, sensors, etc.



### 8. Input Module...4080-120

They are responsible for transferring signals from the machine to the computer such as external relays. (Electrically insulated)



**NOTE:** Even though all output and/or input modules within the machine are identical, they cannot be moved to another location on the serial bus cable, as the computer automatically assigns a working address for each one.

- If a replacement is necessary, always replace with a new or loaner module from another machine.
- Electrical Power to the machine must be turned "OFF" during replacements.
- Computer will show an error if one or more modules are missing.
- Removing more than 1 module at a time will require reinstalling all of the modules

**Procedure:**

Remove the old module and connect the new one, after turning on the power, the computer will reassign the address to this new module.

### 3.5.3. Program Update

**NOTE: Very Important**

Before starting the procedure below, go to Advanced Settings and write down all the settings shown in these screens.

1. Turn off power to the machine.
2. Replace the existing Program Module with the Program Module that contains the updated program.

3. With your finger on the screen, turn power on to the machine. When the screen changes from dark to light, remove your finger from the screen.



4. Carefully calibrate the screen. See screen calibration.

**ATTENTION: Do not turn off the machine during this process for any reason, as vital information will be corrupted, and it will be necessary to call manufacturer for assistance and/or return the touch screen and module for base programming.**

5. Press the “Update Controller” button. Input mechanic security code (xxxxx). This process takes up to 5 minutes and asks you to press the “Continue” button once during this time.
6. When complete the Controller will contain the updated program.

**NOTE:** Continue to item 7 only if you need to reprogram original module.

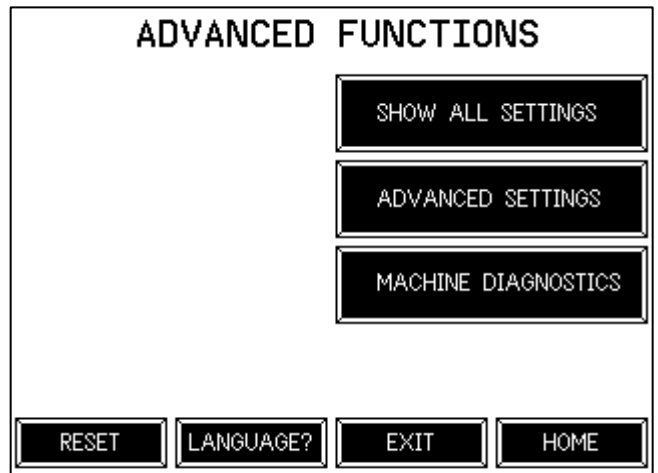
7. Turn off power to the machine.
8. Replace the Program Module that you installed in step #2 with the original Program Module that came with the machine.
9. With your finger on the screen, turn power on to the machine. When the screen changes from dark to light, remove your finger from the screen.
10. Carefully calibrate the screen.
11. Press the “Update Program Mod” button. Input technician security code (xxxxx). This process takes up to 5 minutes. When complete the original Program Module that came with the machine and the Controller will contain the updated program.

Now that the process is complete, go to Advanced Settings and verify them using the settings you wrote down at the beginning of the process. Make any necessary corrections.

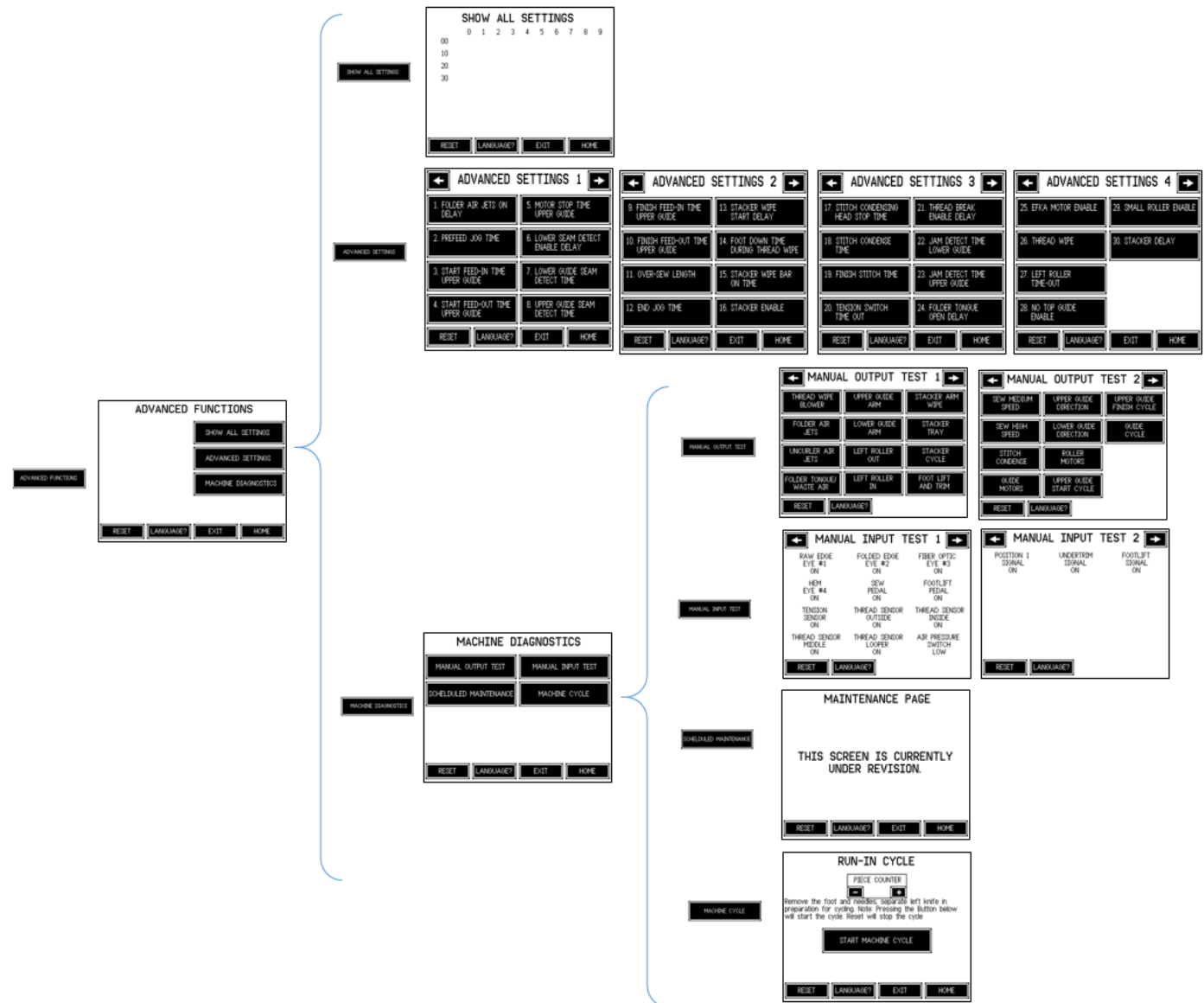
### 3.5.4. Technical Screens

#### 1. ADVANCED FUNCTIONS

Show ALL SETTINGS, ADVANCED SETTINGS and MACHINE DIAGNOSTIC



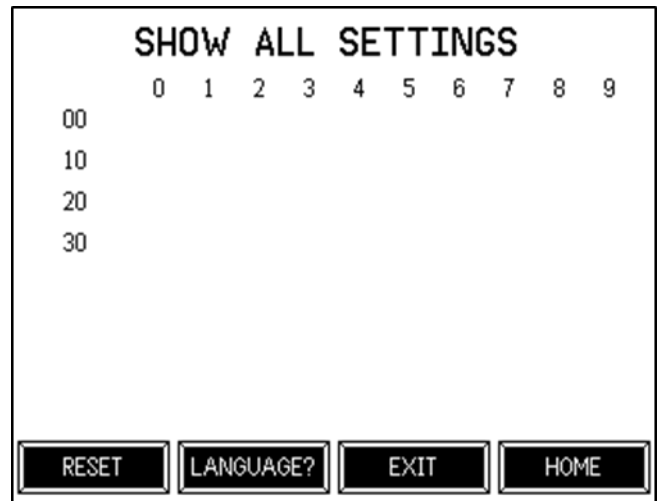
#### Sub Menus



## Service Instructions

### A. SHOW ALL SETTINGS

Shows the current parameter values being used by the machine. It doesn't show the function, only the value. Before any program or module change, take notes of these values or a picture in case of any program issues.



### B. ADVANCED SETTINGS

This button selection gives access to all available settings for the machine.

**NOTE:** All buttons on Advanced Settings screens 1, 2, 3, and 4 take you to individual setting screens that will allow you to adjust the setting and will give a brief description of how the setting works.

#### ADVANCED SETTINGS 1

##### 1) Folder Air Jets On Delay:

**Note:** Only apply to machines with a top guide. Time from folder tongue in until folder air jets turn on. Adjust so air jets come on when the folder is completely engaged.

##### 2) Pre-feed Jog Time:

Jog time of feed rollers until sewing begins. Controls start position of sewing and therefore the position of the over-sew stitches.

##### 3) Start Feed-In Time Upper Guide

###### Wheel:

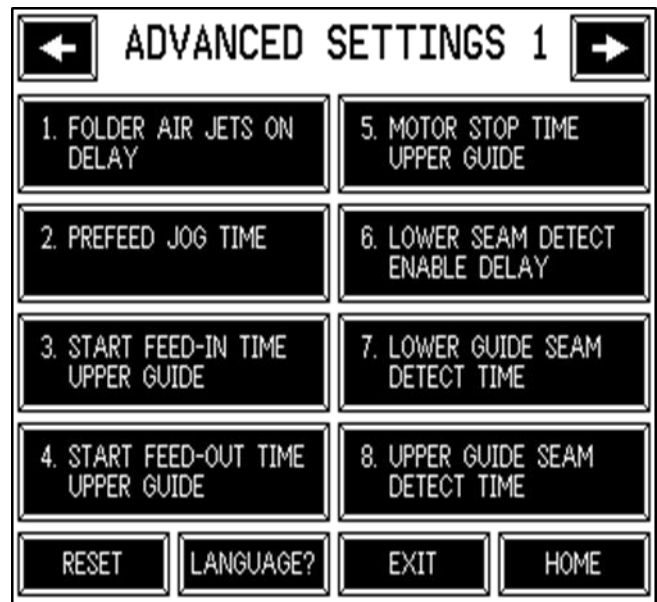
**Note:** Only apply to machines with a top guide. The Feed-in time of upper guide wheel is active until eye #3 in folder goes dark (covers). Should always be set greater than Timer #4 feed-out time. Adjust with timer #4 to gently feed the garment during folder loading. Increasing the number feeds in faster.

##### 4) Start Feed-Out Time Upper Guide Wheel:

**Note:** Only apply to machines with a top guide. The Feed-out time of upper guide wheel is active until eye #3 in folder goes dark (covers). Should always be set less than Timer #3 feed-in time. Adjust with timer #3 to gently feed the garment during folder loading. Decreasing the number feeds in faster.

##### 5) Guide Motor Stop Time:

**Note:** Only apply to machines with a top guide



## Service Instructions

The time the guide motors stop at beginning of sewing to prevent over feeding of upper guide during head acceleration.

### 6) Lower Seam Detect Enable Delay:

Lower seam detect is disabled for this time after start of sewing to allow guiding to stabilize. Usually set 1/4 to 1/2 of total sewing time.

### 7) Lower Guide Seam Detect Time:

Time eye#1 must stay lite to cause a lower seam detect situation. Increase if seam detection happens too soon. Decrease if seam detection is missed. Must be set lower than timer #22 JAM DETECT LOWER GUIDE WHEEL.

## ADVANCED SETTINGS 2

### 8) Upper Guide Seam Detect Time:

**Note:** Only apply to machines with a top guide Length of time eye #4 must stay lite to cause a upper seam detect situation.

### 9) Finish Feed-In Time Upper Guide Wheel:

**Note:** Only apply to machines with a top guide Feed-in time of upper guide wheel during over-sew, after folder opens. Should always be set greater than Timer #10 feed-out time. Adjust with timer #10 to gently push hem against edge guide during over-sew. Increasing number pushes hem harder.

### 10) Finish Feed-Out Time Upper Guide Wheel:

**Note:** Only apply to machines with a top guide Feed-out time of upper guide wheel during over-sew, after folder opens. Should always be set less than Timer #9 feed-in time. Adjust with timer #9 to gently push hem against edge guide during over-sew. Decreasing number pushes hem harder.

### 11) Over-sew Length Adjustment:

Sewing time from upper seam detect to end. Controls the amount of over-sew stitches.

### 12) End Jog Time:

Time of roller feed after under trimming to pull stitch off of throat plate tongue. Can also be used to index garment to stacking position.

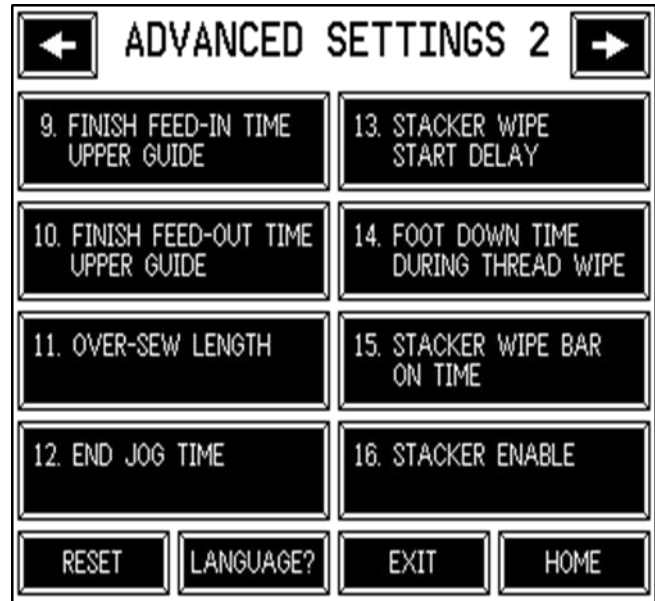
### 13) Stacker Wipe Start Delay:

Time between left roller retract and stacker wiper on. Adjust to remove tension from garment prior to Stacking.

### 14) Foot Down Time During Thread Wipe:

Timer that controls foot down time during thread wipe, foot bounce. Also is a part of wiper bar on time.

### 15) Stacker Wiper Bar On Time:



## Service Instructions

This timer is used twice. It is the time from stacker wiper bar on during thread wipe. It is also the time from thread wipe foot up until stacker wiper bar off. Adjust so garment is pulled out from under foot by the stacker wiper bar before the foot drops.

### 16) Stacker Enable:

1-On 0-Off

Turns the stacker on./off.

## ADVANCED SETTINGS 3

### 17) Stitch Condensing Head Stop Time:

Head stop time while stitch condense hardware shifts. Disabled if #18 STITCH CONDENSE TIME = 0.

### 18) Stitch Condense Time:

Time for condensed stitches. Condensing is disabled if set to zero.

### 19) Finish Stitch Time:

Time for final stitches after stitch condense. Disabled if #18 STITCH CONDENSE TIME = 0.

### 20) Tension Switch Time-out:

Time allowed for tension arm to drop before tension switch is enabled. If this timer times out then the left roller has not expanded and tension is not correct. Should be set as low as possible to activate tension roller without timing out.

### 21) Thread Break Enable Delay:

Delay time until thread breaks become enabled to allow sewing head to accelerate.

### 22) Jam Detect Time Lower Guide wheel:

The maximum time eye#1 can remain in one state (light or dark) before jam detection occurs. Must be set greater than #7 LOWER GUIDE SEAM DETECT.

### 23) Jam Detect Time Upper Guide wheel:

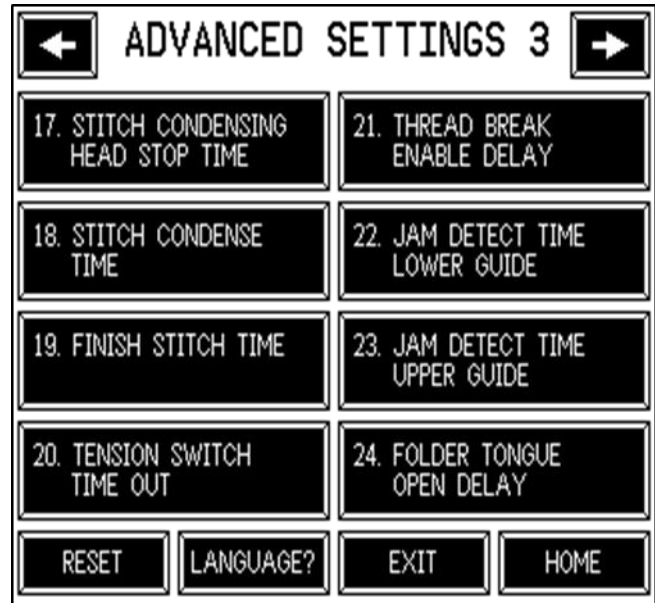
**Note:** Only apply to machines with a top guide

The maximum time eye#3 can remain in one state (light or dark) before jam detection occurs.

### 24) Folder Tongue Open Delay:

**Note:** Only apply to machines with a top guide

Time from lower seam detection until the folder tongue opens to allow seam to pass through the folder



**ADVANCED SETTINGS 4**

**25) Efka Motor Enable:**

1= Efka Motor, 0= No Efka Motor

**26) Thread Wipe:**

1= Mechanical thread wipe enabled, 0= Air thread wipe enabled

**27) Left Roller Time-out:**

Length of time allowed for the tension arm to be lifted by the expansion of the left roller. If this timer times out then the left roller has failed to expand and lift the tension arm within the given time.

**28) No Top Guide Enable:**

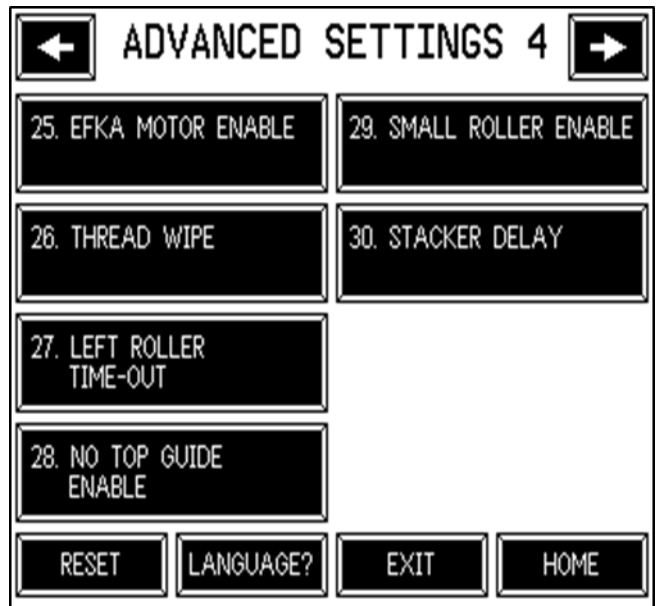
1= No Top Guide, 0= Top Guide

**29) Small Roller Enable**

0= Disable- left roller will expand as normal

1= Enable- Left roller will not expand

When Enable left roller must be manually set to correct position before the shirt is loaded

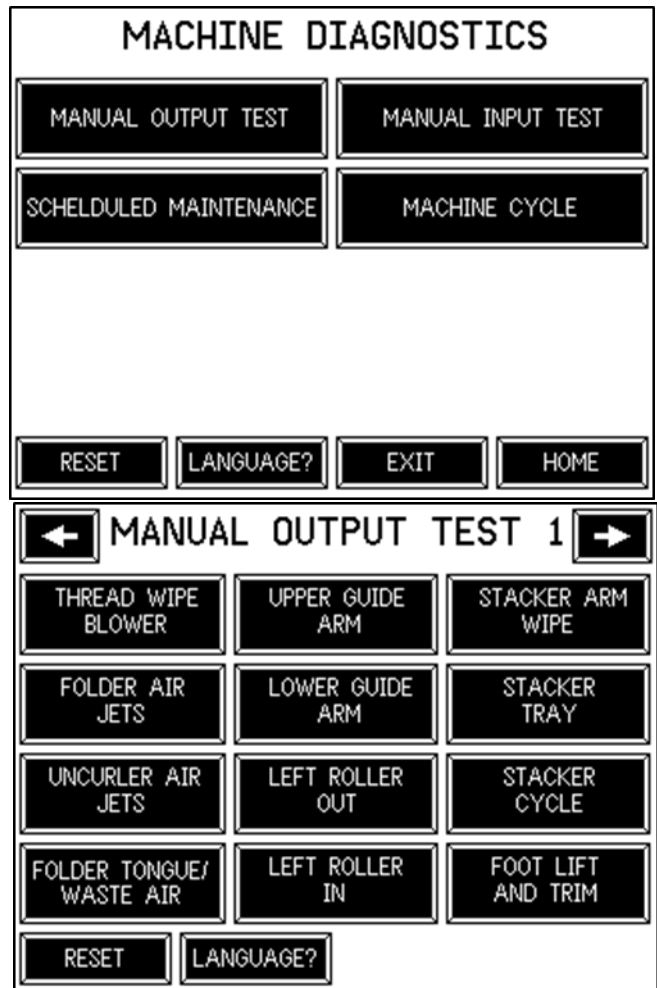


**C. MACHINE DIAGNOSTICS**

This button takes you to the Machine Diagnostics screen. In the Machine Diagnostics screen the mechanic can access the Manual Input Test or the Manual Output Test.

**MANUAL OUTPUT TEST 1**

All objects on the Manual Output Test screen are buttons that manually activate that particular device or cycle.

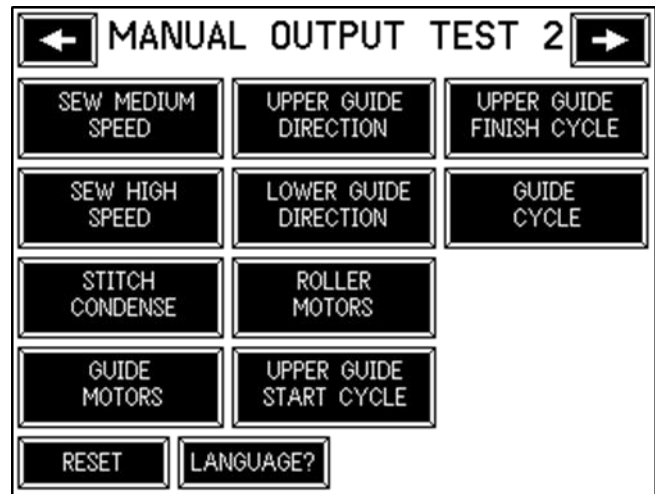


## Service Instructions

### MANUAL OUTPUT TEST 2

All objects on the Manual Output Test screen are buttons that manually activate that particular device or cycle

Will allow the manual activation of the cylinders, solenoids, and motors.



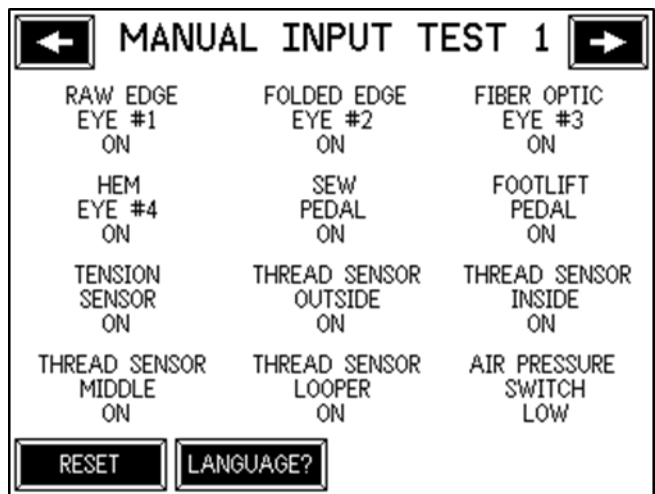
### MANUAL INPUT TEST 1

While testing input devices the machine WILL NOT start in automatic mode.

A rectangle around the name of an input device is used to denote a change in its state. When an eye is covered, a change in state will be shown on the screen.

An example is when you manually cover the RAW EYE #1 a rectangle appears around the name RAW EYE.

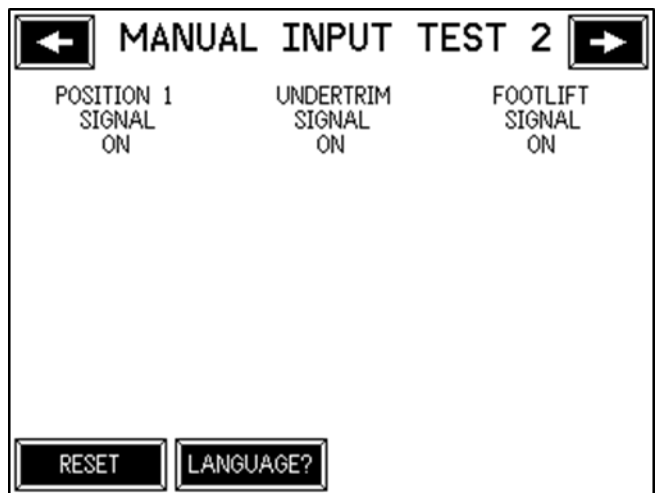
The eyes, foot pedals, and proximity switches can be checked.



### MANUAL INPUT TEST 2

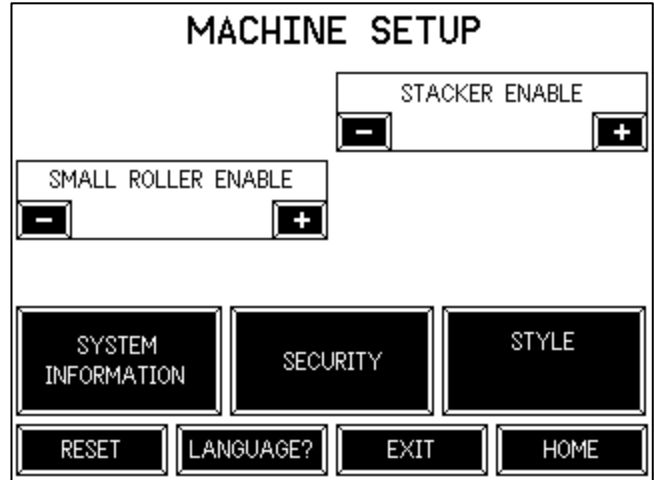
While testing input devices the machine WILL NOT start in automatic mode.

A rectangle around the name of an input device is used to denote a change in its state. An example is when you manually cover the sew eye a rectangle appears around the name SEW EYE.



## 2. MACHINE SETUP

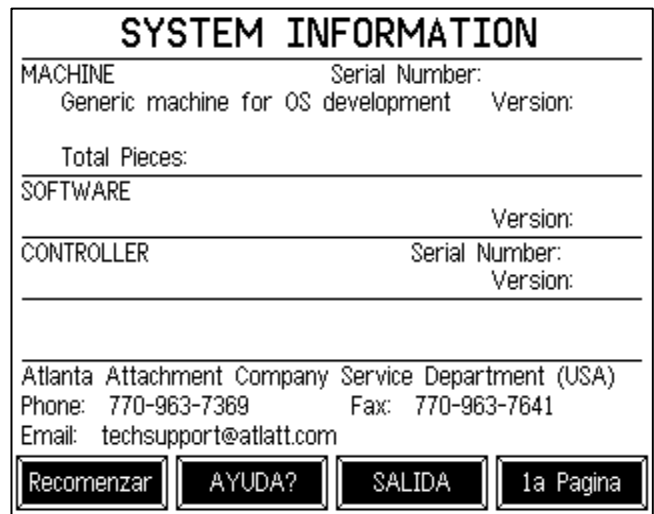
1. **Stacker Enable:** This setting allows the operator to switch the stacker cycle on or off. 0 = off or disabled and 1 = on or enabled.
2. **Small rollers enable:** Disable the tensioning on the left rollers loading cycle begins within EYE #1 covered
3. **System Information:** This button takes you to a screen that displays various information about the machine, such as: serial number or software revision number.
4. **Security** Allows you to change your current level of security or change the password for your security level or any level below you. Appropriate security level required.
5. **Style:** This bottom access the list of style buttons. Pressing the particular style bottom will allow editing or recalling that style



### A. SYSTEM INFORMATION

Show combine Data and Program module from the memory module.

Serial number is store on the memory module and software with controller on the program module.



### B. STYLE

The STYLE button shows the current style being used. Pressing the STYLE button will take you to the two pages listing the 15 available styles. At the bottom of the page are ADVANCED and RECALL SETTINGS buttons.



**Edit the Style**

- Press the ADVANCED button.
- The security keypad will appear.
- Enter the mechanic's security code and press ENTER.
- The screen will go back to the STYLE page selected.
- Press EDIT NAMES to change the style name. The name can be a combination of letters, numbers, or symbols including spaces. The page will show the current name in the box with four buttons around it. The buttons to the left and right of the box move the cursor left or right. The buttons on the top and bottom of the box increment or decrement through the alphabet, numbers, and symbols.
- SAVE SETTINGS button will save all of the current parameter settings under that style.
- RECALL SETTINGS will install the last set of parameters saved to that style.
- The advantage to setting up styles is changing the prefeed and over-sew settings depending on the beginning location or size of the shirt is much quicker.



**3. STATISTIC**

The statistics page is set up to give the supervisor a rough estimate of the machine usage.

- Total On Time is how long the machine has been powered up since the last reset.
- Time In Auto Cycle is how long the machine has run in the automatic mode since the last reset.
- Total Idle Time is how long the machine has been powered up, but the machine has not been running since the last reset.
- Total Idle Time Due To Error is the amount of time the machine has been powered up, but not running due to an error registered by the serial bus system, since the last reset.
- Piece Count is the number of cycles the machine has run since the last reset.
- Efficiency is Time In Auto Cycle divided by Total On Time.
- Lifetime Piece Count is the total number of cycles the machine has run. It is not reset by pressing the Reset All Statistics button.

STATISTICS			
TOTAL ON TIME	TIME IN AUTO CYCLE		
TOTAL IDLE TIME	TOTAL IDLE DUE TO ERROR		
PIECE COUNT	EFFICIENCY		
RESET ALL STATISTICS	LIFETIME PIECE COUNT		
RESET	LANGUAGE?	EXIT	HOME

## Service Instructions

### 3.5.5. Expiration Count 911

Expiration Count Code "911" is not an error that can be resolved without assistance from Atlanta Attachment.

- Machine has displayed this error as the result of someone removing or installing modules incorrectly.
- Machine has completed a predetermined time-cycle set by the factory.

When contacting Atlanta Attachment via phone or e-mail, please provide this information below, as displayed on the "911" screen

- The machine type
- The machine serial number
- The security key
- The master clock

Here is what the 911 warning currently says:

#### Warning 911 Instructions

1. Contact the Atlanta Attachment Company Service Department (USA).

Phone: +1 (770) 963-7369

Fax: +1 (770) 963-7641

Email: techsupport@atlatt.com

2. Once in contact, provide the following information.

000 Machine Type

000000000000 Machine Serial Number

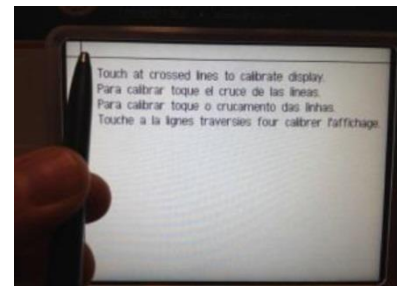
00000 Security Key

0000000000 Master Clock

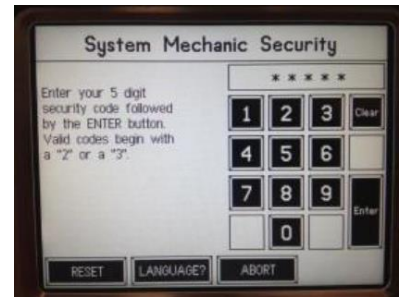
To TEMPORARILY bypass this warning, press CONTINUE

#### 1. Unlock Procedure

1. Power up the machine while pressing the center of the screen with your finger.
2. Once the screen becomes white, remove your finger and two lines should appear crossing in the upper left corner of the screen.
3. Calibrate the touch screen by pressing where the lines cross with the tip of your finger.
4. Two other lines should appear crossing in the lower right corner of the screen.
5. Calibrate the touch screen by pressing where the lines cross with the tip of your finger.
6. A language selection menu should now appear.



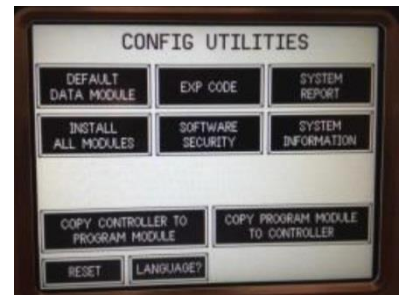
7. A MECHANIC SECURITY SCREEN should appear. Type your 5-digit security code



8. The Controller Setup show up; press continue

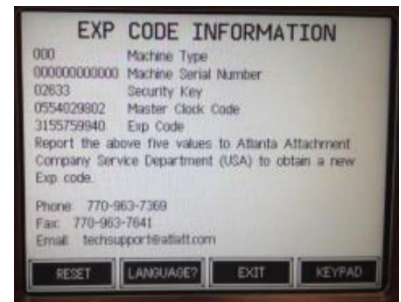


9. In the screen CONFIG UTILITIES, press EXP CODE.



10. Report the three numbers at the top to the AAC Service department staff.

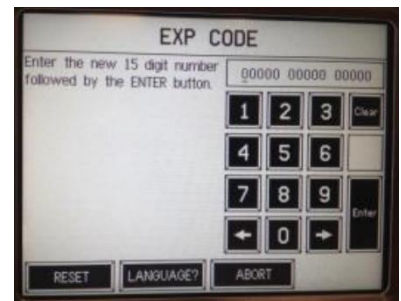
- A. The machine type
- B. The machine serial number
- C. The security key



11. The AAC Service department staff will provide you with the new EXP CODE value.

12. To enter it, press the KEYPAD button at the bottom right of the screen.

13. Enter in the new EXP CODE value using then left and right buttons to position the cursor where desired. Use the Increment and Decrement buttons above and below to adjust the value under the cursor. When the 15-digit number is correct, Press Enter.



14. Press RESET to reboot the machine.

## 3.6. Maintenance

**NOTE:** Always wear proper safety equipment when operating or performing maintenance on any equipment.

It is important that the machine operator read this manual and is familiar with all the functions and safety concerns of the unit before operating.

### 3.6.1. General Safety Instructions

Maintenance should only be performed by trained, qualified personnel. Before performing any maintenance or repair work, switch off the electrical, pneumatic, etc. power to the machine at the main source and secure it with a padlock so that it cannot be switched on again without authorization. Refer to lockout/tag out procedures

- Always wear proper safety equipment when operating or performing maintenance on any equipment.
- All recommended maintenance is for a single shift schedule; adjust as necessary for a multi-shift operation.
- Equipment should not be used for purposes other than designed or specified.
- The machine shall be switched off, come to a standstill and be secured so that it cannot be switched on again inadvertently before starting any maintenance work whatsoever.
- Use proper lockout/tag out procedures to secure the machine against inadvertent startup.
- Remove any oil, grease, dirt and waste from the machine, particularly from the connections and screws, when starting the maintenance and/or repair work.
- Do not use any corrosive-cleaning agents.
- Use lint-free rags.
- Retighten all screw connections that have to be loosened for the maintenance and repair work.
- Any safety mechanisms that have to be dismantled for setting-up, maintenance or repair purposes must be refitted and checked immediately after completing the work



# Preventive Maintenance 40 Hrs






<b>Model:</b> 12788	<b>Required Materials</b> Oilcan Oil for sewing machine Clean cloth Compressed air
<b>Serial #:</b>	
<b>Operation:</b> Bottom Hemming	
<b>Sew Head:</b>	
<b>Serial #:</b>	
<b>Needle:</b> SNUY128GAS-12 80	

<p>.- Open covers, remove needle plate. With an air gun blow the machine out and remove accumulated dirt in hard to reach areas</p>	
<p>Check Sharpness of edge trimming knives and sharpen if required</p>	
<p>Check all reflecting tape for wear and replace if required. If tape is replaced readjust eye sensors</p>	
<p>Check all air cylinders for correct activation speed. Adjust flow control if required. Check pressure regulator and adjust. Main 80 psi, Tension cylinder 10-20 psi, Guide wheel pressure 20-25 psi</p>	
<p>Check all mechanical assembly. Tighten loosen components if found. Check Tension arm for free movement. (Turn air pressure of and move by hand)</p>	
<p>Check tension of all stepping motor belts and sewing motor v-belt and adjust if necessary</p>	
<p>Check wear and free rotation of o rings on edge guide roller and replace if required. Check guide wheel engagement. Make sure it contact plate when actuated</p>	
<p><b>.- Perform Daily Maintenance</b></p>	



## Preventive Maintenance 960 Hrs

<b>Model:</b> 12788	<b>Required Materials</b>
<b>Serial #:</b>	
<b>Operation:</b> Bottom Hemming	
<b>Sew Head:</b>	
<b>Serial #:</b>	
<b>Needle:</b> SNUY128GAS-12 80	
	Oilcan Oil for sewing machine Clean cloth Compressed air

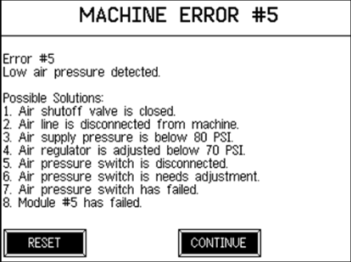
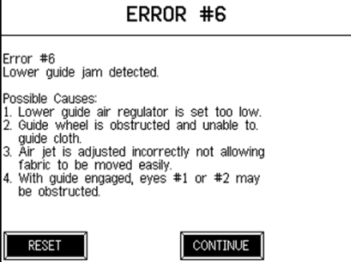
Remove the oil plug and empty the oil in the machine. Replace Oil and change oil filter	
Check filter elements in air regulator and replace if necessary	
Inspect pillow blocks and other non-sealed bearings (conveyors and rotating shafts) and apply one shot of recommended grease to each bearing/fitting.	
Open or remove doors and/or covers and inspect belt(s) for debris or wear and clean or replace as necessary.	
Review Roller Rings (A) for conditions. They need to be flexible and do not have a slippery surface	
<b>.- Perform Weekly Maintenance</b>	

### 3.7. Troubleshooting

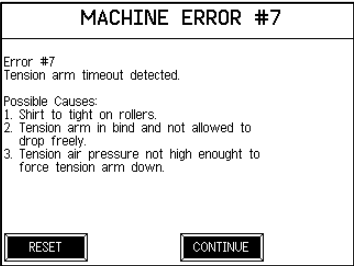
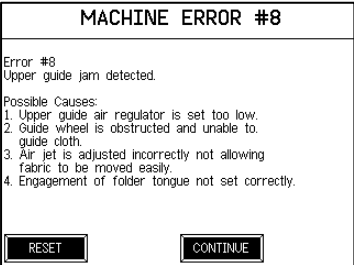
#### 3.7.1. Screen Messages

Error	Cause:	Corrective action:
<p><b>#1 #2 #3, Needle Thread Break Failure</b></p> <p>Indicated by machine stopping and message on screen.</p> <div data-bbox="111 583 466 852" style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">MACHINE ERROR #1</p> <hr/> <p>Error #1 Thread break on outside needle.</p> <p>Possible Solutions: 1. Check thread and replace if broken. 2. Make sure thread is routed properly through sensor. 3. Replace or re-program sensor.</p> <p style="text-align: center;"> <input type="button" value="RESET"/> <input type="button" value="CONTINUE"/> </p> </div>	<ol style="list-style-type: none"> <li>1. Thread tangled in eyelets.</li> <li>2. Bad needle.</li> <li>3. Sewing head misadjusted.</li> <li>4. Thread break detectors misadjusted or defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the thread and replace if broken.</li> <li>2. Make sure that the thread is routed properly through sensor.</li> <li>3. Adjust tension on sensor.</li> <li>4. Replace or re-program sensor</li> <li>5. Replace Needle</li> </ol>
<p><b>#4 Lopper Thread Break Failure</b></p> <p>Indicated by machine stopping and message on screen</p> <div data-bbox="111 1144 466 1414" style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">MACHINE ERROR #4</p> <hr/> <p>Error #4 Thread break on looper.</p> <p>Possible Solutions: 1. Check thread and replace if broken. 2. Make sure thread is routed properly through sensor. 3. Adjust Sensitivity of sensor (Light goes off as thread moves through it. 4. Replace sensor.</p> <p style="text-align: center;"> <input type="button" value="RESET"/> <input type="button" value="CONTINUE"/> </p> </div>	<ol style="list-style-type: none"> <li>1. Thread tangled in eyelets.</li> <li>2. Sewing head misadjusted.</li> <li>3. Thread break detectors misadjusted or defective.</li> <li>4. Lopper take off pulling too much thread</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the threading of the machine, needles, tension setting, etc.</li> <li>2. Make sure that the threads makes good contact with thread break detector eyelets.</li> <li>3. Adjust the sensitivity of thread break detectors. If no threads are broken, check for skipped stitches in the area where the machine stopped. If no threads were broken or stitches skipped, then decrease the sensitivity of the detectors. To decrease the sensitivity of the detectors, turn the sensitivity screw clockwise.</li> <li>4. Restart the machine by pressing CONTINUE or press RESET and remove the garment.</li> <li>5. Retard looper thread take off a little by losing set screws rotating take off dishes back</li> </ol>

## Service Instructions

Error	Cause:	Corrective action:
<p><b>#5 Low Air Pressure Detected</b></p>  <p>The screenshot shows a message box titled "MACHINE ERROR #5". The text inside reads: "Error #5 Low air pressure detected. Possible Solutions: 1. Air shutoff valve is closed. 2. Air line is disconnected from machine. 3. Air supply pressure is below 80 PSI. 4. Air regulator is adjusted below 70 PSI. 5. Air pressure switch is disconnected. 6. Air pressure switch needs adjustment. 7. Air pressure switch has failed. 8. Module #5 has failed." At the bottom of the box are two buttons: "RESET" and "CONTINUE".</p>	<ol style="list-style-type: none"> <li>1. Air shutoff valve is closed</li> <li>2. Airline is disconnected form machine</li> <li>3. Air supply pressure is below 80 PSI</li> <li>4. Air regulator is adjusted below 80 PSI</li> <li>5. Air pressure switch is disconnected</li> <li>6. Air pressure switch need adjustment</li> <li>7. Air pressure switch failed</li> <li>8. Module 5 has failed</li> <li>9.</li> </ol>	<ol style="list-style-type: none"> <li>1. Open air valve</li> <li>2. Connect air line</li> <li>4. Verify air compressor is running</li> <li>5. Readjust air pressure regulator to 80 PSI</li> <li>6. Review air pressure switch connection</li> <li>7. Replace air switch</li> <li>8. Replace module 5</li> <li>9.- Verify that there are no restrictions on the airline that are producing air drops</li> </ol>
<p><b># 6 Lower Guide Jam Detected</b></p> <p>Message on the screen and the machine stopping.</p>  <p>The screenshot shows a message box titled "ERROR #6". The text inside reads: "Error #6 Lower guide jam detected. Possible Causes: 1. Lower guide air regulator is set too low. 2. Guide wheel is obstructed and unable to guide cloth. 3. Air jet is adjusted incorrectly not allowing fabric to be moved easily. 4. With guide engaged, eyes #1 or #2 may be obstructed." At the bottom of the box are two buttons: "RESET" and "CONTINUE".</p>	<ol style="list-style-type: none"> <li>1. Lower guide uncurl air jets not uncurling the fabric edge making control difficult.</li> <li>2. Improper guide pressure.</li> <li>3. Too much tension on body of garment making it difficult for guides to control fabric.</li> <li>4. Setting #22 set too low.</li> <li>5. Drive belt too tight</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the lower uncurled jets; they should have the correct position and flow to hold the garment edge flat in the area where the eye is looking. In order for eye number one to effectively guide the cloth, it must look at a flat, uncurled edge.</li> <li>2. Check pressure on the lower guide wheels. Make sure that the individual wheels spin freely on their own axles. Heavier weight fabric may need more pressure. Lighter weight fabric may need less. Look carefully at the flow of the cloth through the guide wheel. If the pressure is set too high, the fabric will bunch up directly in front of the guide wheels. If the pressure is not enough, the wheels will spin without moving the fabric.</li> <li>3. Restart the machine by pressing the continue button or press RESET and remove the garment.</li> <li>4. Increase #22 if set lower than default value.</li> <li>5. Loosen motor mount screws. Set guide wheel to plate, but should not be very tight, Tighten motor mount screws</li> </ol>

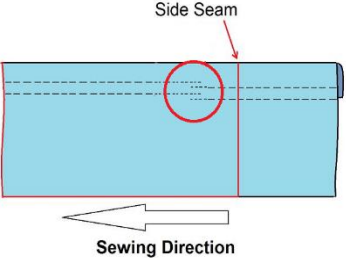
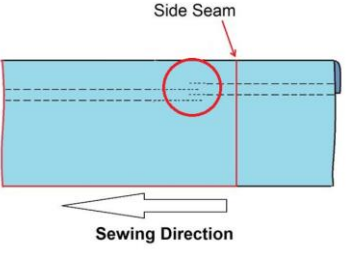
## Service Instructions

Error	Cause:	Corrective action:
<p><b>#7 Tension Arm Time Out Detected</b></p> 	<p>In normal operation, when a shirt is loaded, the tension arm drops and uncovers a prox switch. As the left roller moves to the left, the shirt raises the tension arm as it gets tighter. The tensioning stops when the prox switch is covered. The tension arm error can occur if the prox switch never uncovers, or if the prox switch doesn't get covered again. If the tensioning pressure is set too high and the shirt doesn't have sufficient body to pull the arm up, the error will occur.</p>	<p>The counterweight on the end of the arm should be set so that the arm is balanced with the air supply to the machine turned off. When the air is turned on, the air pressure on the tension arm is the load the shirt tension has to overcome to move the arm.</p> <p>If the operator has the left roller positioned so that the shirt is stretched onto the rollers to load, the arm won't drop far enough to uncover the prox switch, and the error will appear.</p> <p>If the operator has the left roller positioned so that the shirt is loose on the rollers after the roller has moved to the left, the arm won't lift high enough to cover the prox switch.</p> <p>If the left roller movement cylinder flow control isn't adjusted correctly, the cylinder could reach its limit before the tension arm uncovers the prox switch.</p> <p>If the target on the tension arm that covers the prox switch is set too high, the switch may not uncover, and the error will appear.</p>
<p><b>#8 Upper Guide Jam detected</b></p> <p>Indicated by message on the screen and the machine stops.</p> 	<ol style="list-style-type: none"> <li>1. Lower guide not set to give upper guide enough fabric to hem properly. Guide trying to push the fabric into the folder.</li> <li>2. Improper guide pressure.</li> <li>3. Setting #23 set too low.</li> <li>4. Drive belt too tight</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the lower guide eye so that the lower guide will give the folder more fabric. The general direction of the top guide wheel should be pulling fabric out of the folder at a slow rate. If the folder is not getting enough fabric from the lower guide, then the top guide will try to push more fabric into the folder to compensate. It is very difficult for the guide to push the fabric into the folder and may result in an upper guide failure or pleating of the hem.</li> <li>2. Check pressure on the upper guide wheels. Make sure that the individual wheels spin freely on their own axles. Heavier weight fabric may need more pressure. Lighter weight fabric may need less. Look carefully at the flow of the cloth through the guide wheel. If the pressure is set too high, the fabric will bunch up directly in front of the guide wheels. If the pressure is not enough, the wheels will spin without moving the fabric.</li> <li>3. Increase Setting #23 if set less than default value.</li> <li>4. Loosen motor mount screws Set guide wheel to plate, bur should not be very tight, Tighten motor mount screws</li> </ol>

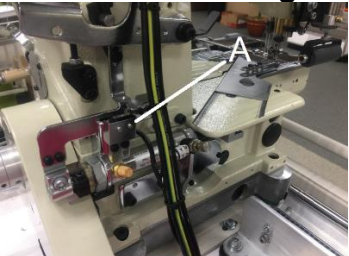
Service Instructions

Error	Cause:	Corrective action:
<p><b>#9 Folder Load Fault</b></p> <div data-bbox="113 256 464 521" style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">MACHINE ERROR #9</p> <p>Error #9 Folder load fault</p> <p>Possible Causes: 1. During the jog cycle eye #3 was never covered indicating that the folder was never sufficiently loaded. 2. Pre-jog time is too short.</p> <p style="text-align: center;"> <input type="button" value="RESET"/> <input type="button" value="CONTINUE"/> </p> </div>	<ol style="list-style-type: none"> <li>1. During the Jog Cycle eye #3 was never covered indicating that the folder was never sufficiently loaded</li> <li>2. Pre-jog time is too short</li> </ol>	<p>The folder load fault applies to the upper guide unit. The top guide wheel needs to contact the plate to control the material. If the drive belt is too tight, the wheel won't contact the plate when the arm is sent down.</p> <p>Parameters 3 &amp; 4 control the guide wheel feed time in the in and out directions until eye # 3 is covered.</p> <p>Parameter 3 controls the length of time the wheel moves the material into the folder.</p> <p>Parameter 4 controls the speed moving the material out of the folder. Increasing the parameters increases the length of time the wheel moves in the particular direction.</p> <p>The higher the setting, the less the material moves in and out.</p>

3.7.2. Seam

Problem	Cause:	Corrective action:
<p>The fabric between the foot and the left roller become stretched during sewing causing the hem to pucker.</p>	<p>If the feed rollers are feeding at a faster rate than the feed dogs, the fabric will pull away from the edge guide at the foot when the folder tongue retracts.</p>	<p>Reduce Speed of the rollers</p>
<p>Stitch and over-sew misalignment. Narrow hem at the seam end</p> 	<p>Shirring can also contribute to alignment problems.</p> <p>Eye #2 is adjusted too far out towards the operator.</p> <p>Excess material under the foot at the start of the hem.</p> <p>If the feed rollers are feeding at a faster rate than the feed dogs, the fabric will pull away from the edge guide at the foot when the folder tongue retracts.</p>	<p>Be sure that all shirring is eliminated from the feed dogs.</p> <p>Adjust Eye according</p> <p>Air jet 12A in front of the foot is blowing too hard or down into the edge guide.</p> <p>Reduce Speed of the rollers</p>
<p>Stitch and over-sew misalignment. Wider hem at the seam end</p> 	<p>Eye #2 is adjusted too far in and pushing the material against the edge guide.</p> <p>If the feed rollers are feeding at a slower rate than the feed dogs, the fabric will be loose between the presser roller and the presser foot. The fabric will appear to bunch up behind the presser foot.</p>	<p>Adjust Eye according</p> <p>Increase Speed of the rollers</p>

3.7.3. Electrically

Problem	Cause:	Corrective action:
<p><b>Machine do not turn ON</b></p>	<p>No Power</p>	<ul style="list-style-type: none"> <li>• Check the green button on the lock out switch inside the right door of the machine. If it is not pressed in and lit, press the green button.</li> <li>• If it doesn't light up when pressed, check the voltage at the top of the contactor. If there is no voltage, check the breaker at the electrical box.</li> <li>• Use the wiring diagram for your machine loaded in the parts manual to check the voltages.</li> </ul>
<p><b>Shirt falling</b></p>	<p>Large O-rings located on the guide rollers should be replaced on the average of every 6 months or more frequently if they become hard and slick. They will naturally harden due to climate, heat and dust.</p> <p>The softness and sticky surface of new O-ring's has a greater ability to hold the shirt from falling off the rollers with less air pressure used to extend the left roller</p>	<p>Replace 3 O-rings</p>
<p><b>Do not start sewing</b></p> 	<p>Knife switch not activated</p>	<p>Review switch</p>

### 3.7.4. Efka Controller Error

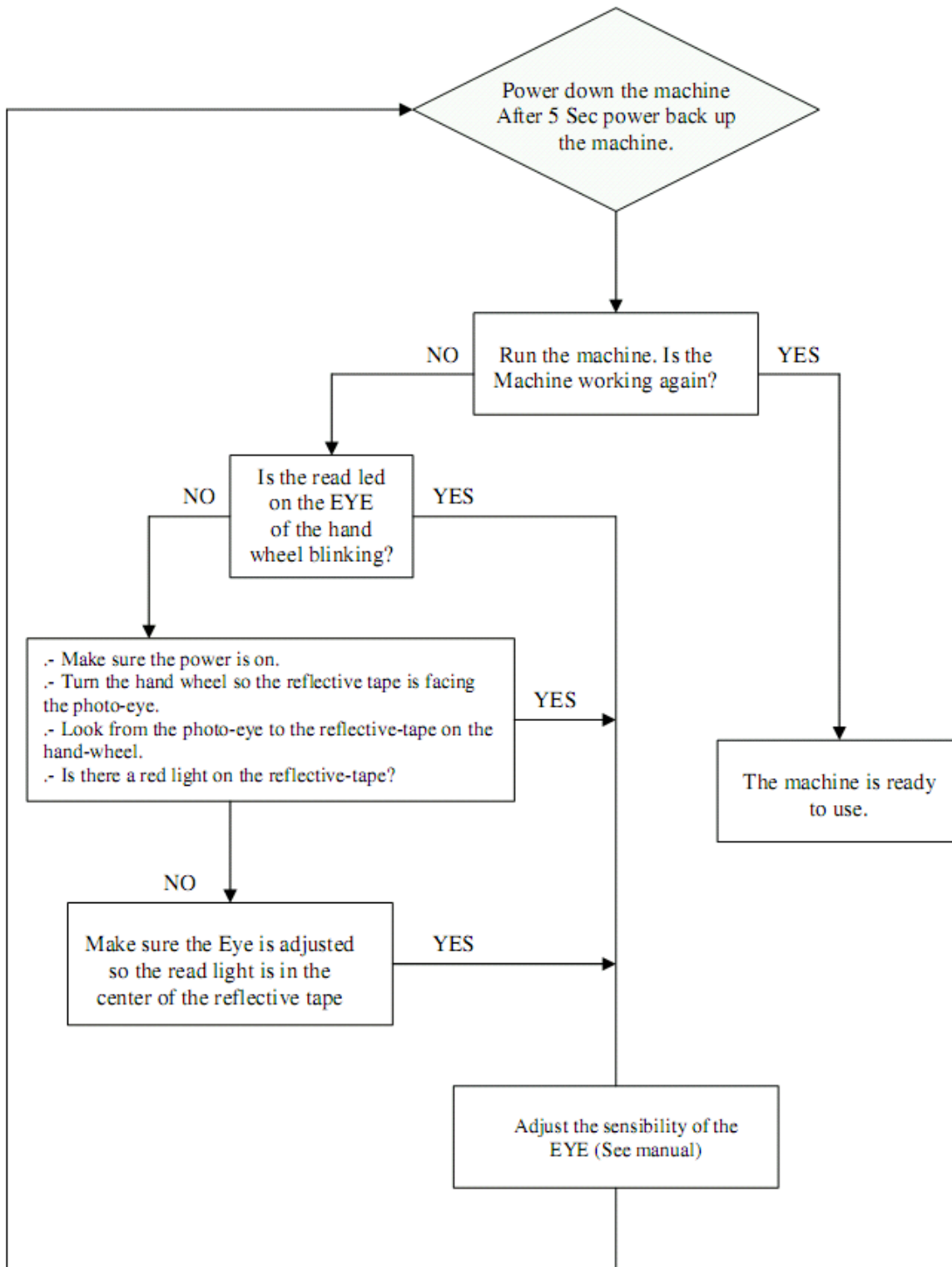
<b>General Information</b>			
<b>On the control</b>	<b>On the V810</b>	<b>On the V820</b>	<b>Signification</b>
A1	InF A1	InF A1	Pedal not in neutral position, when turning the machine on
A2	-StoP- blinking	-StoP- blinking + symbol display	Machine run blockage
A3	InF A3	InF A3	Reference position is not set
A6	InF A6	InF A6	Light barrier monitoring
A7	Symbol blinking	Symbol blinking	Bobbin thread monitor

<b>Programming Functions and Values (Parameters)</b>			
<b>On the control</b>	<b>On the V810</b>	<b>On the V820</b>	<b>Signification</b>
Returns to 000 or to last parameter number	Returns to 0000 or to last parameter number	Like V810 + display InFo F1	Wrong code number or parameter number input

<b>Serious Condition</b>			
<b>On the control</b>	<b>On the V810</b>	<b>On the V820</b>	<b>Signification</b>
E1	InF E1	InF E1	The external pulse encoder e.g. IPG... is defective or not connected.
E2	InF E2	InF E2	Line voltage too low, or time between power off and power on too short.
E3	InF E3	InF E3	Machine blocked or does not reach the desired speed.
E4	InF E4	InF E4	Control disturbed by deficient grounding or loose contact.
E9	InF E9	InF E9	EEPROM defective.

<b>Hardware Disturbance</b>			
<b>On the control</b>	<b>On the V810</b>	<b>On the V820</b>	<b>Signification</b>
H1	InF H1	InF H1	Commutation transmitter cord or frequency converter disturbed.
H2	InF H2	InF H2	Processor disturbed

1. Flow Chart EFKA Error E1



3.7.5. Panasonic D9 Controller Errors

• Information Error Code and Measurement:

Error Code	Abnormality Item	Cause of The Problem	Measure
E - 1	•Sewing machine lock	<ul style="list-style-type: none"> <li>• Sewing machine lock</li> <li>• Needle sensor connector is disconnected</li> <li>•V-Belt has loose tension</li> <li>• Motor connector is disconnected</li> <li>• Trimmer sequence is set improperly</li> </ul>	<ul style="list-style-type: none"> <li>•Check the sewing machine</li> <li>•Connect the needle sensor connector</li> <li>•Tighten the belt(See page 4)</li> <li>•Connect the motor connector</li> <li>•Confirm trimmer sequence</li> </ul>
E - 2	•Hardware tripping in control	<ul style="list-style-type: none"> <li>• Abnormal power supply voltage for control box</li> <li>•High voltage at braking form high speed</li> </ul>	<ul style="list-style-type: none"> <li>•Check the power-supply voltage</li> <li>•Replace the control box to repair the regenerated circuit</li> </ul>
E - 3	•Encoder signal of motor sensor is abnormal	<ul style="list-style-type: none"> <li>• Motor connector is disconnected</li> </ul>	<ul style="list-style-type: none"> <li>•Connect the motor connector</li> <li>•Check the wires of the motor sensor cable</li> </ul>
E - 4	• Commutation signal of motor sensor is abnormal	<ul style="list-style-type: none"> <li>• Motor connector is disconnected</li> </ul>	<ul style="list-style-type: none"> <li>•Connect the motor connector</li> <li>• Check the wires of the motor sensor cable</li> <li>•Replace the motor</li> </ul>
E - 5	•Abnormal motor speed	<ul style="list-style-type: none"> <li>• Abnormal control box</li> </ul>	<ul style="list-style-type: none"> <li>•Replace the control box</li> </ul>
E - 6	•Motor over-load or lock	<ul style="list-style-type: none"> <li>•Machine has heavy load</li> <li>•Motor connector is disconnected</li> </ul>	<ul style="list-style-type: none"> <li>•Check the machine load. If yes, reduce the machine load.</li> <li>•Connect the motor connector.</li> </ul>
E - 7	• High voltage supply	<ul style="list-style-type: none"> <li>• Power supply voltage abnormal</li> </ul>	<ul style="list-style-type: none"> <li>• Exchange control Box</li> </ul>
E - 8	•Abnormal Solenoid.	<ul style="list-style-type: none"> <li>•Solenoid is short-circuited</li> </ul>	<ul style="list-style-type: none"> <li>•Check the solenoid.</li> </ul>
E - 10	• Control Box memory is abnormal.	<ul style="list-style-type: none"> <li>• EEPROM has wrong data.</li> </ul>	<ul style="list-style-type: none"> <li>• Reset EEPROM by using (RESET) node.</li> </ul>

E - 11	•Abnormal Communication	<ul style="list-style-type: none"> <li>•The console is cable was plugged in after power on.</li> </ul>	<ul style="list-style-type: none"> <li>• Plug in the console cable with power off, then power on.</li> </ul>
SAFE	Safety Switch	<ul style="list-style-type: none"> <li>Trimming protection</li> <li>Safety switch broken</li> <li>Safety switch setting incorrect (open or close)</li> </ul>	<ul style="list-style-type: none"> <li>Correct trimming device to be used</li> <li>Check if the switch is damaged</li> <li>Usually set to close, use A14 to adjust.</li> </ul>

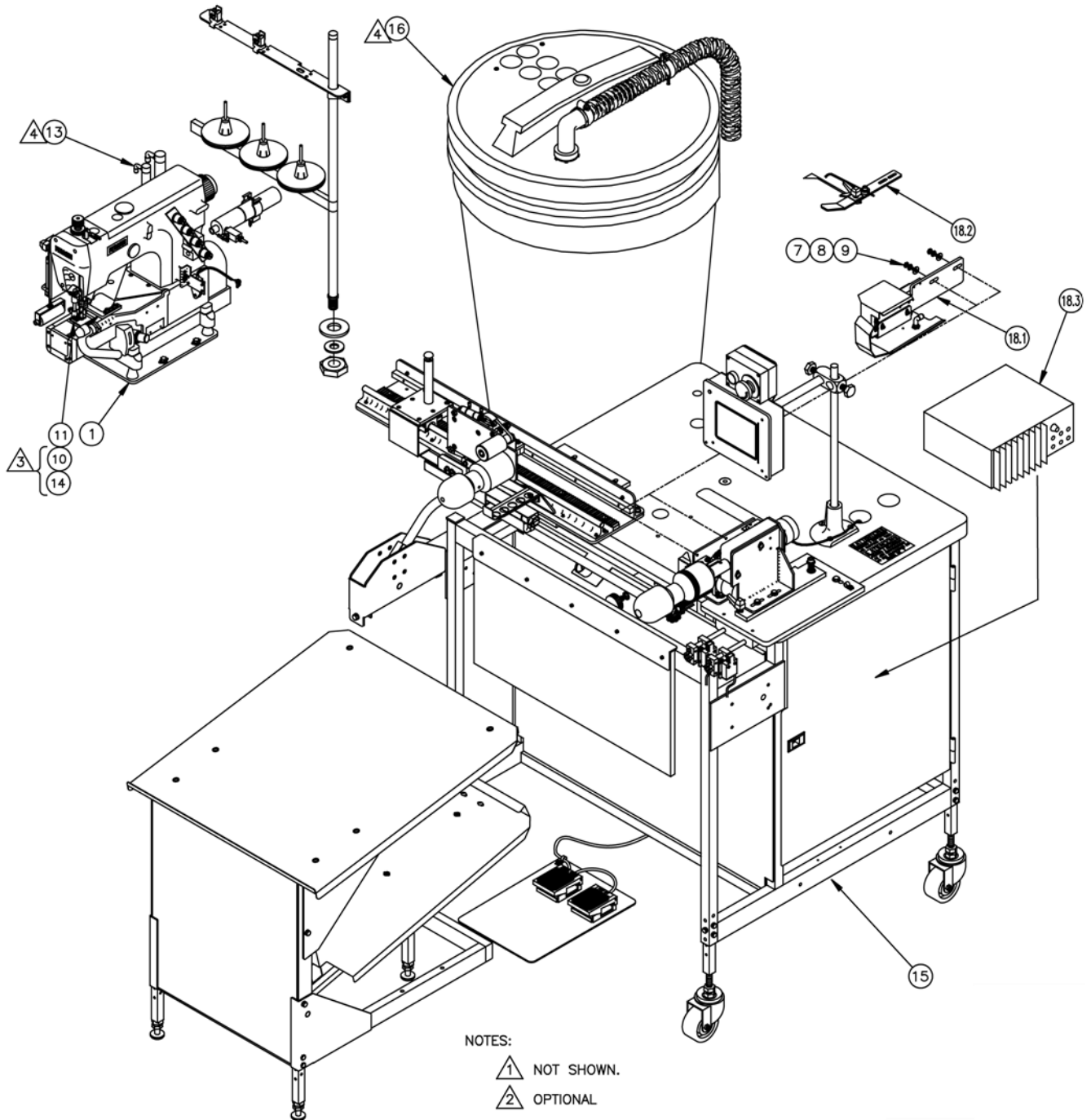
## Assembly Drawings & Parts Lists

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NOTES:

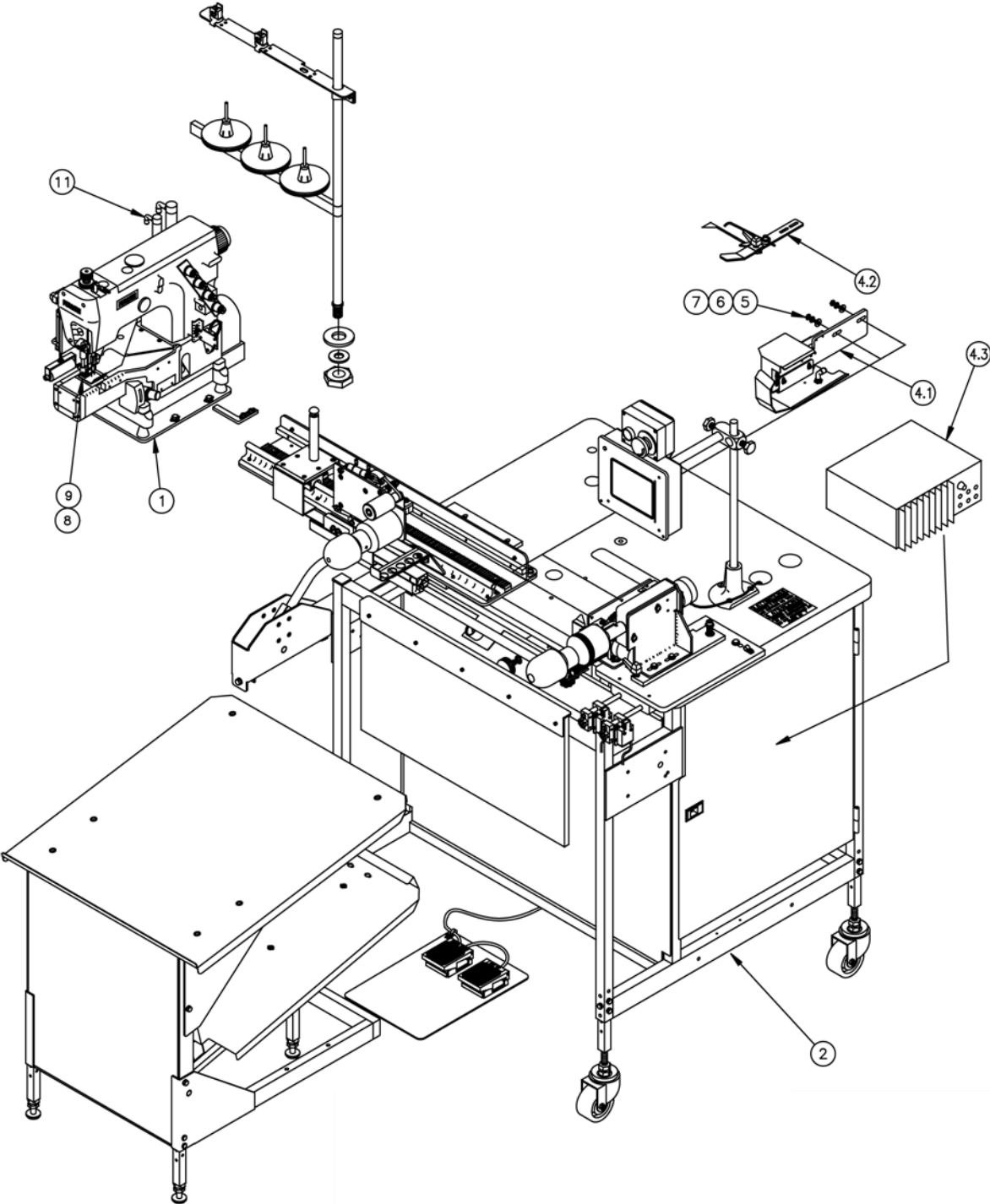
- △ 1 NOT SHOWN.
- △ 2 OPTIONAL

- △ 3 USE 3117124 FOR 112788FG8J  
USE 3117124 FOR 112788FG6F  
USE 3117126 FOR 112788FG6F
- △ 4 NOT USED ON 112788FG8J

**112788FGX 2 Needle Circular Bottom Hemmer**

AAC Drawing Number 191999C Rev.5

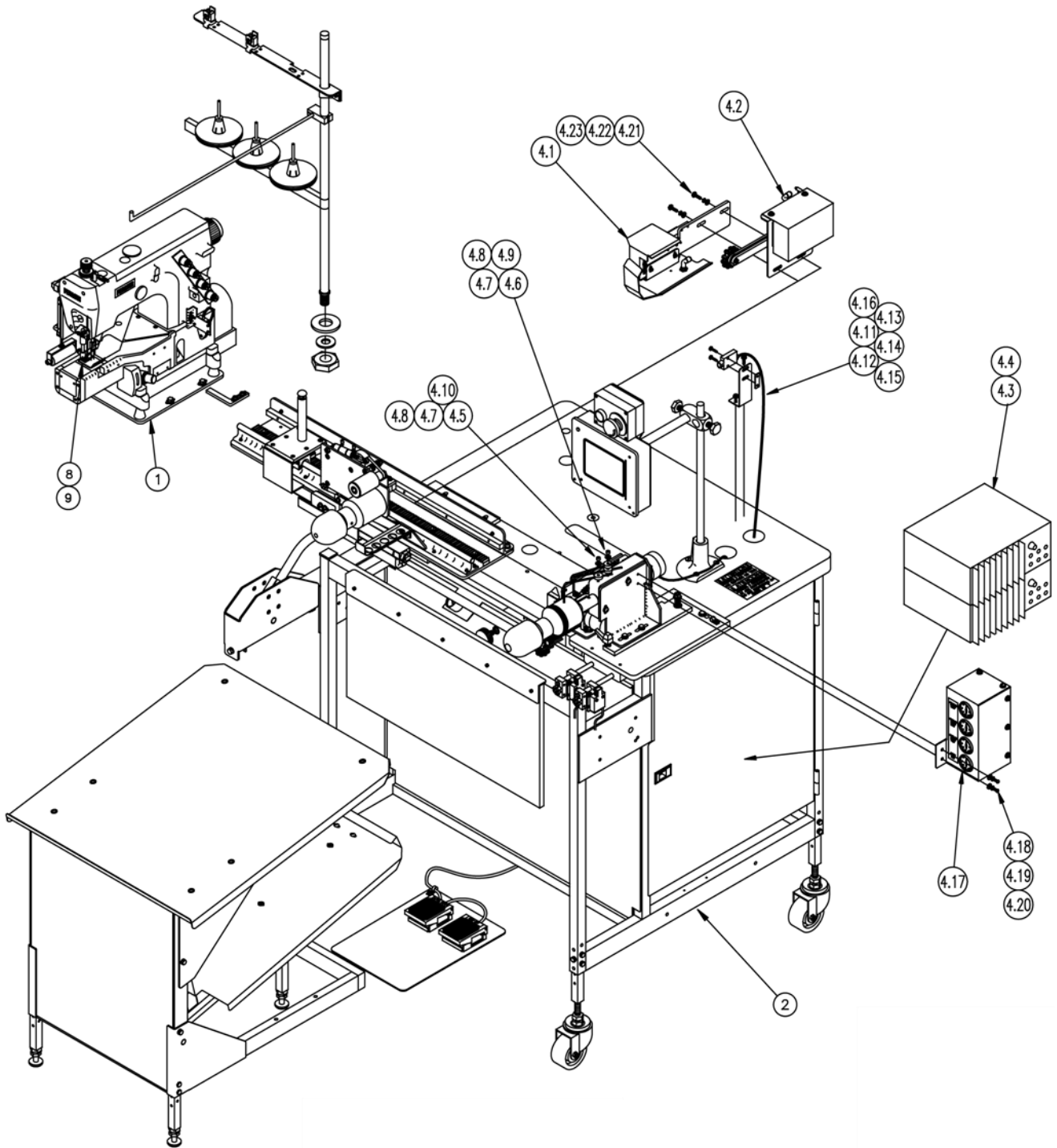
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	1278-820FH	Sewing Hd & Parts	11	1	3117084	Fabric Presser
		For 112788FG5F	Peg. 5.6mm W/LHK	12	1	ZZ12788F	Technical Manual
	1	1278-820FJ	Sewing Hd & Parts	13	1	40-3E	Stitch Condensing Kit
		For 112788FG6F	Peg. 6.4mm W/LHK	14	1	3117126	Presser Foot
	1	1278-820FP	Sewing Hd & Parts	15	1	40-GH	Console
		For 12788FG8J	Peg. 5.6 mm, Ut, N/LHK	16	1	0411-1300	Waste System
2	1	40-278	Mount, Edge Guide	17	1	1278-8110B	Pana Motor and Cables
3	1	40-279	Guide, Raw Edge	18	1	40-4D	No Top Guide
4	2	SSSC98032	Screw, Socket Cap	18.1	1	40-570D	Guide Plate Assy
5	4	WWFS10	Flat Washer, SAE	18.2	1	40-660	Guide Tongue Assy
6	2	WWL10	Lock Washer, #10	18.3	1	AP-28-800T	Control Box
7	2	SSFC98032	Screw, Flat Allen	18.4	1	EE37F3311	CEE Power Cord
8	2	NNK10-32	Kep Nut	18.5	AR	1278-8DPD2	Pneumatic Diagram
9	2	SSHC01032	Screw Hex Cap	18.6	AR	12788FWDEL	Wiring Diagram, Efka
10	1	3117124	Presser Foot				



**112788FGXX 2 Needle Circular Bottom Hemmer**

AAC Drawing Number 192001C Rev.0

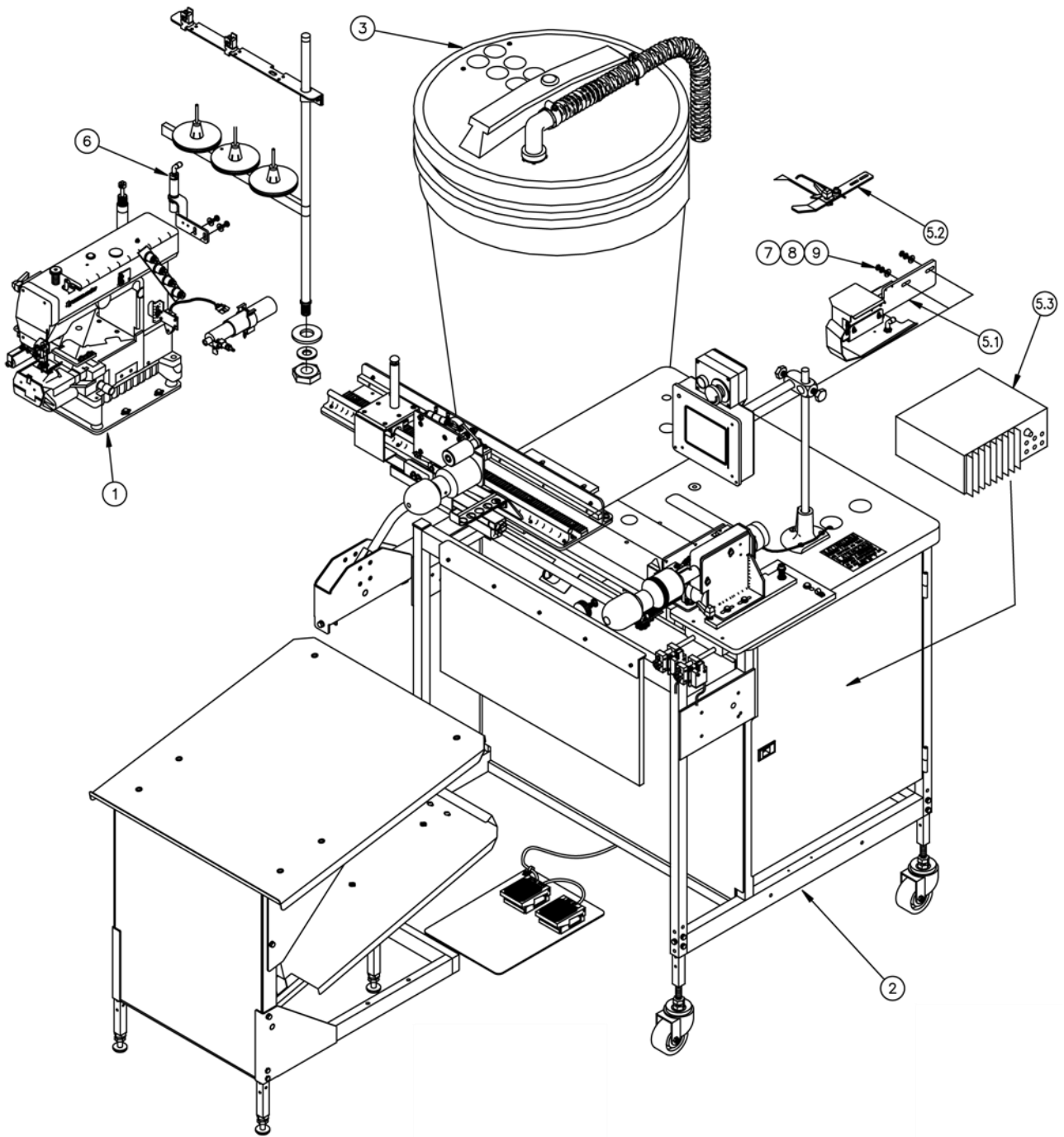
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	1278-820FH	Sewing Hd & Parts	4.7	AR	12788FWDPL	Wiring Diagram, Pana
		For 112788FG7H	Peg. 4.8mm N/LHK, SC	4.8	1	AP-28-512A	Step Motor Cable
2	1	40-GH	Console	4.9	2	28-512E	Step Motor Cable
3	1	1278-8110B	Pana Motor & Cables	4.1	1	12788-512	Dual Jog / Single Cable
4	1	40-4D	Guide Plate Assy	5	2	WWL1/4	Lock Washer
4.1	1	40-570D	Guide Plate Assy	6	2	WWFS1/4	Flat Washer
4.2	1	40-660	Guide Tongue Assy	7	2	SSHC01032	Scr,Hx Cp 1/4-20x1/2
4.3	1	AP-28-800T	Control Box	8	1	3117124	Presser Foot
4.4	1	EE37F3311	Cee Power Cord	9	1	3117084	Presser, Fabric
4.5	AR	1278-8DPD2	Pneumatic Diagram	10	AR	ZZ12788F	Technial Manual
4.6	AR	12788FWDEL	Wiring Diagram,Efka	11	1	40-3E	Stitch Condensing Kit



**112788FGXX 2 Needle Circular Bottom Hemmer**

AAC Drawing Number 192000C Rev.2

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-GH	Console	4.17	1	40-620	Blower Gauge
3	1	1278-8110B	Pana Motor & Cables	4.18	2	WWFS10	SAE Flat Washer
4	1	40-4C	Top Guide Assy	4.19	2	SSBC98024	Scr,But Cp 10-32x3/8
4.1	1	40-570C	Guide Plate Assy	4.2	2	WWS110	Int Star Washer
4.2	1	40-600C	Hem Guide Assy	4.21	2	WWL1/4	Lock Washer
4.3	1	AP-28-800RR	Control Box	4.22	2	WWFS1/4	Flat Washer
4.4	1	AP-28-800SS	Control Box	4.23	2	SSHCO1032	Scr,Hx Cp 1/4-20x1/2
4.5	1	40-606B	Wire, Downturn	4.24	2	AP-28-512A	Step Motor Cable
4.6	1	40-609B	Tube, Uncurling Air	4.25	2	AP-28-512E	Step Motor Cable
4.7	3	1278-7154A	Clamp, 1/8 Tube	4.26	1	12788-506	Cable, Guides, Dir & Mtr
4.8	2	WWL10	Lock Washer	4.27	1	12788-507	Cable, Rlr, Jog & Sync
4.9	1	SSSC95048	Scr, So Cp 10-24x3/4	5	AR	1278-8DPD3	Pneumatic Diagram
4.1	1	SSSC95032	Scr, So Cp 10-24x1/2	6	AR	12788FWDET	Wiring Diagram
4.11	1	1278-6689	Table Eye Mount	7	AR	12788FWDPT	Wiring Diagram
4.12	1	1975-412A	Nut Plate	8	1	3117124	Presser Foot
4.13	1	23140H	Elec Eye W/Plug	9	1	3117084	Presser, Fabric
4.14	1	FFPBT46U	Fiber Optic Cable	10	AR	ZZ12788F	Technical Manual
4.15	2	SSPS70048	Pan Hd Slotted Screw	11	2	SSM1228	Pan Hd Screw
4.16	2	SSZH#10032	Sheet Metal Hex Screw				

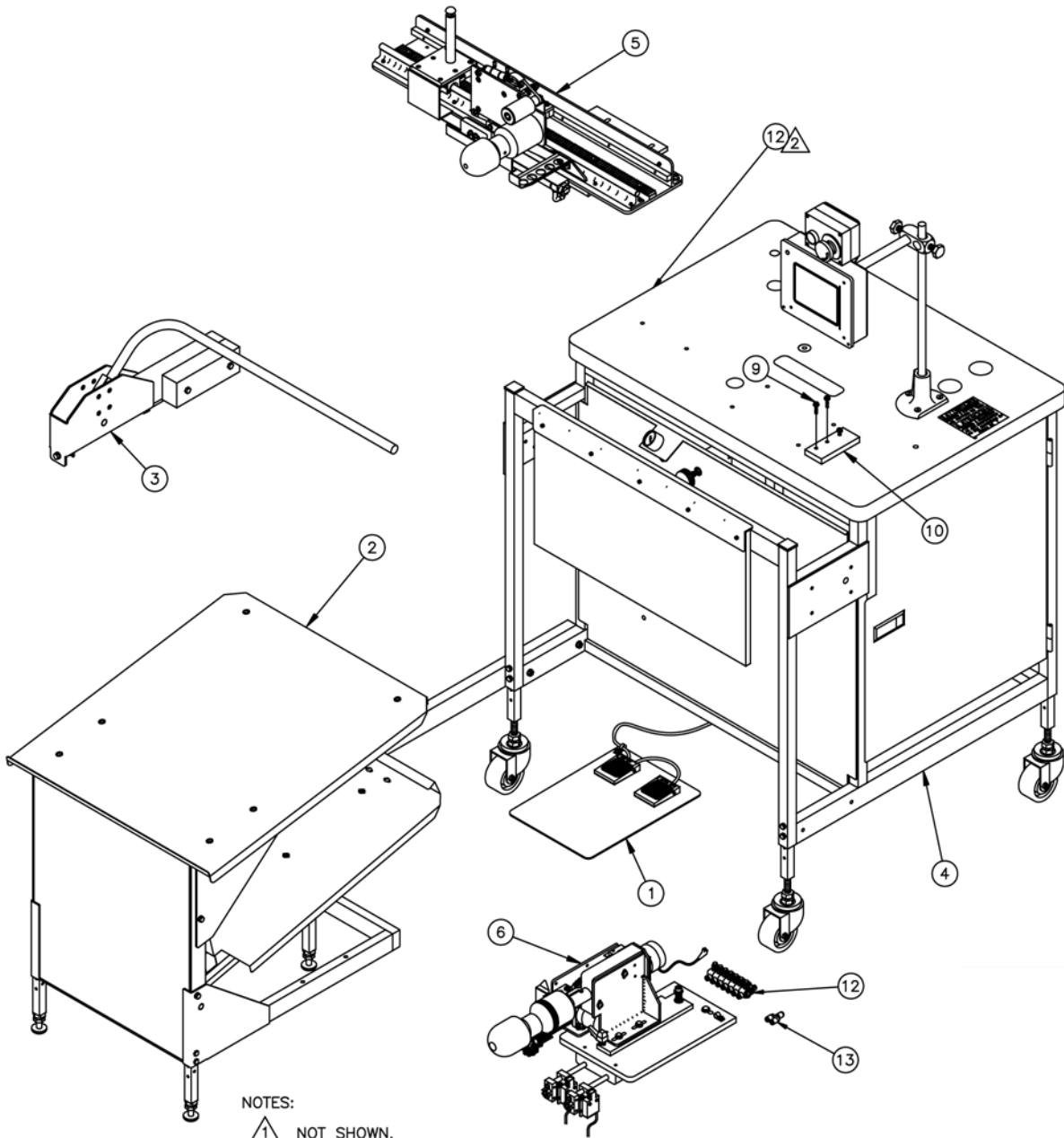


Service Instructions

**112788FYXX 2 Needle Circular Bottom Hemmer**

AAC Drawing Number 192054C Rev.2

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	1278-820FA	Sewing Hd & Parts	5.4	1	EE37F3311	Cee Power Cord
		For 112788FY4F Yam. 4.8mm W/LHK		5.5	AR	1278-8DPD2	Pneumatic Diagram
				5.6	AR	12788FWDEL	Wiring Diagram, Efka
	1	1278-820FB Sewing Hd & Parts		5.7	AR	12788FWDPL	Wiring Diagram, Pana
		For 112788FY5F Yam. 5.6mm W/LHK		5.8	1	AP-28-512A	Step Motor Cable
				5.9	2	28-512E	Step Motor Cable
2	1	40-GH	Console	5.10	1	12788-512	Dual Jog / Single Cable
3	1	0411-1300	Waste System	6	1	40-3D	Stitch Con. Kit
4	1	1278-8110B	Pana Motor & Cables	7	2	WWL1/4	Lock Washer
5	1	40-4D	No Top Guide Assy	8	2	WWFS1/4	Flat Washer
5.1	1	40-570D	Guide Plate Assy	9	2	SSHC01032	Scr, Hx Cp 1/4-20x1/2
5.2	1	40-660	Guide Tongue Assy	10	AR	ZZ12788F	Technical Manual
5.3	1	Ap-28-800T	Control Box				

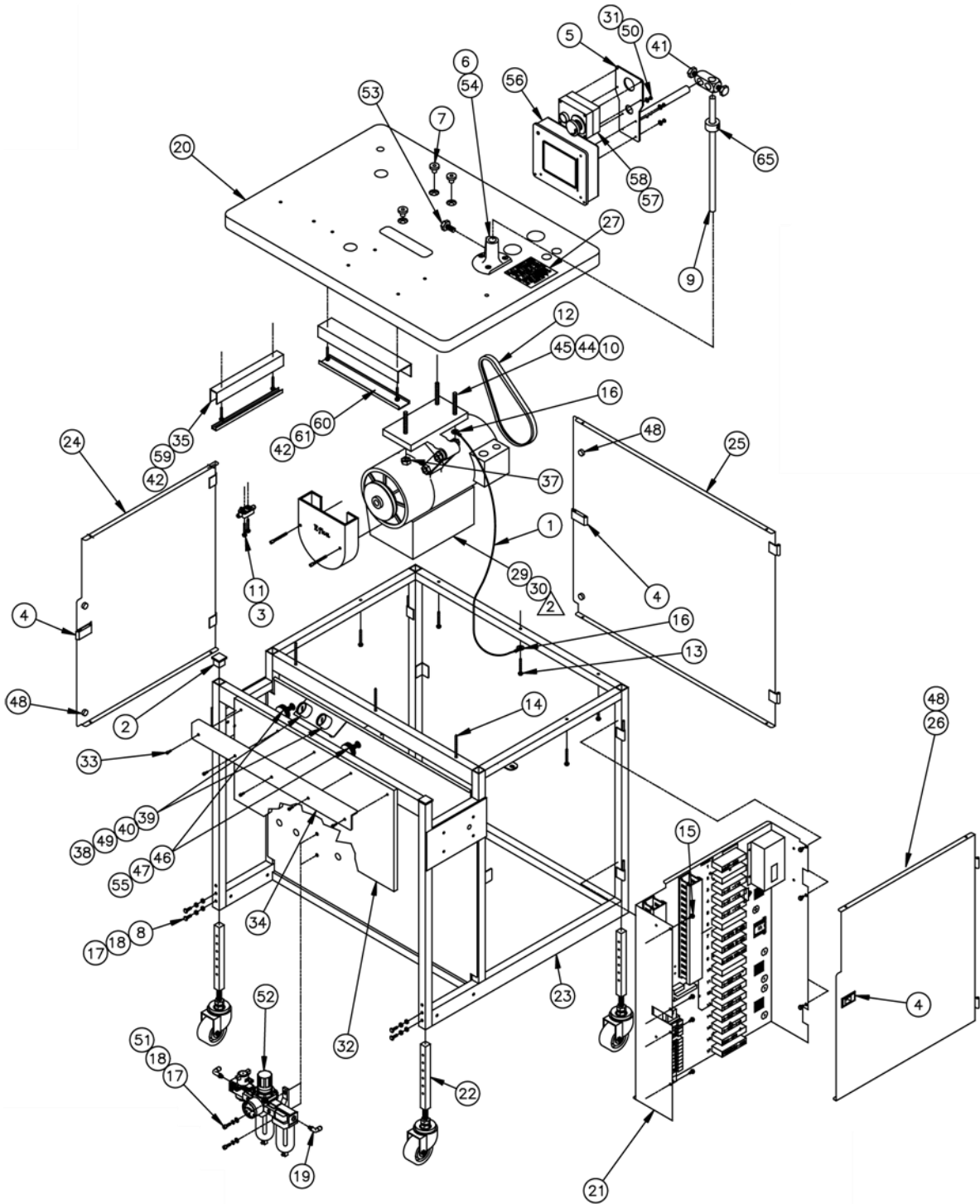


NOTES:  
1 NOT SHOWN.  
2 1 LOCATED UNDER THE TABLE.

## 40-GH Console, Horizontal Stacker

AAC Drawing Number 191993C Rev.7

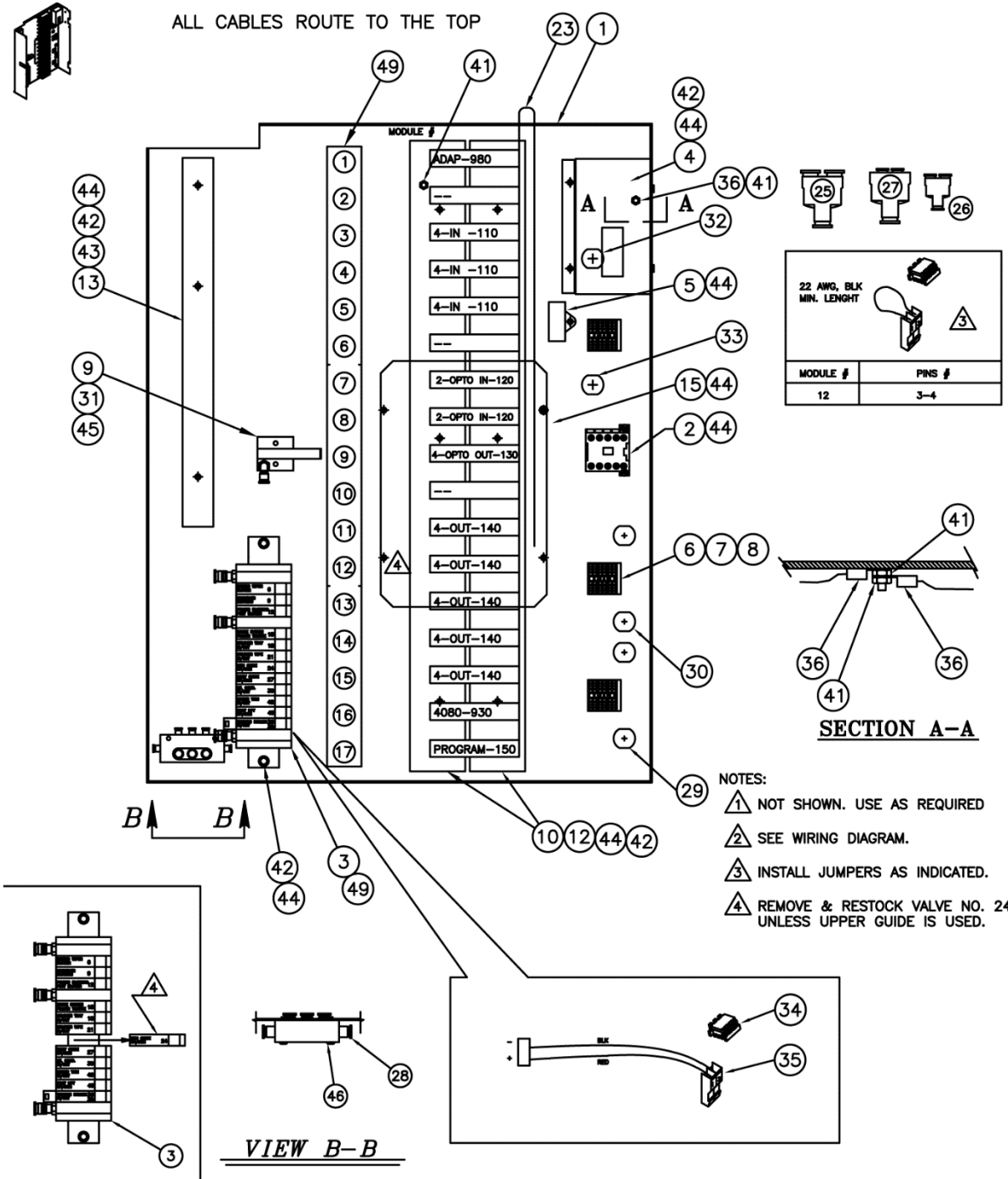
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	1278-6160D	Pedal Assy	8	AR	12788FWDET	Wiring Diagram
2	1	1278-6200K	Horizontal Stacker	9	3	SSZH#10096	Scr, Hx Sh Me #10x1-1/2
3	1	1278-6205F	Wiper Bar Assy	10	1	1278-6406A	Stop Block
4	1	40-100H	Table Stand & Cntrol	11	AR	1278-8DPD3	Pneumatic Diagram
5	1	40-400C	Left Roller Assy	12	7	AA2000F-03	Flow Control, 5/32
6	1	40-500F	Right Roller Assy	13	1	AAQUY-5-5	Quick Union Y
7	AR	1278-8DPD2	Pneumatic Diagram	14	2.5'	AATPWL1	Wire Loom



**40-100H Table, Stand, Controls**

AAC Drawing Number 191992C Rev 7

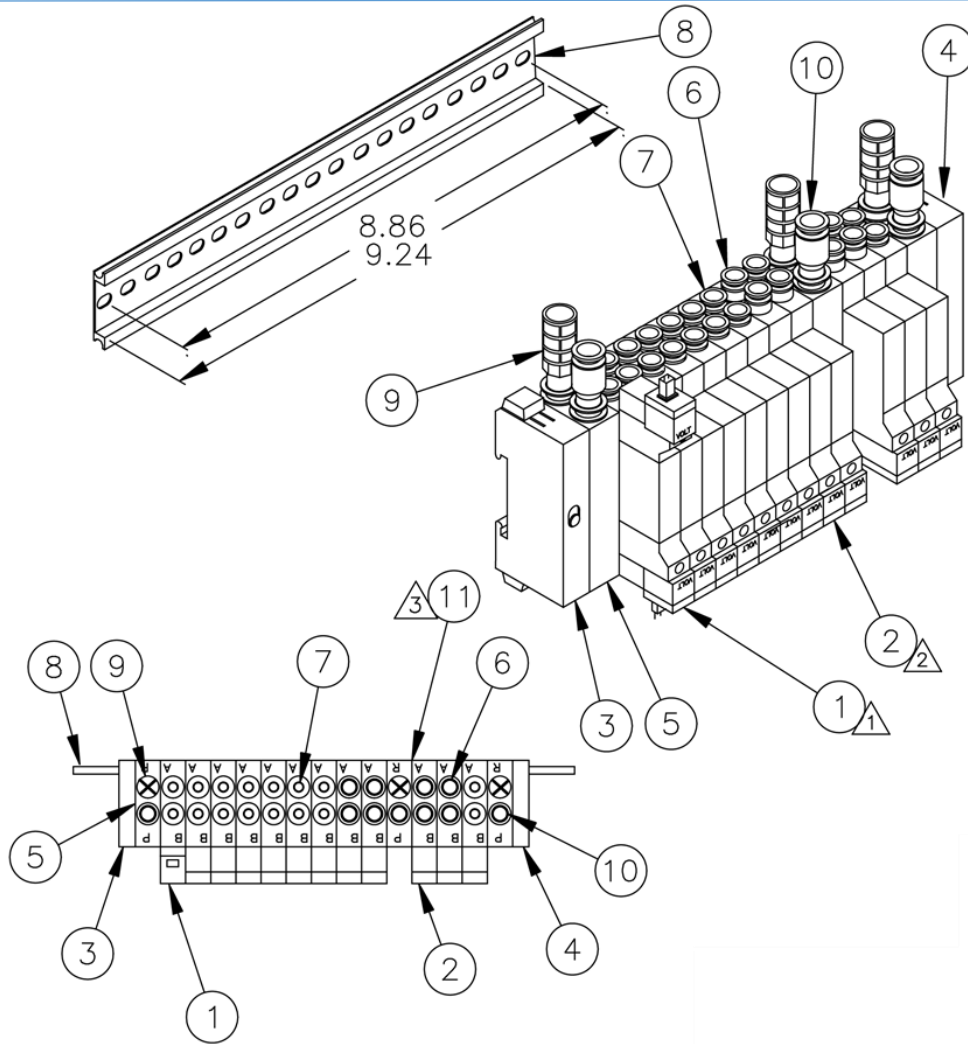
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	2.5'	EE12STRGN	Insulated Wire	33	5	SSSC98032	Scr,So Cp 10-32x1/2
2	2	MM132-1202	Square End Cap	34	1	1278-8007	Retainer Strip
3	1	AA200F-03	In Line Flo Control	35	10"	EEDF1X2	Wire Duct
4	3	MM40450010	Slide Lock Fastener	36	AR	1278-8DPD3	Pneumatic Diagram
5	1	40-112A	Support Rod	37	3	NH5/16-18	Hex Nut
6	3	SSFC01128	Scr,FlAlCp1/4-20x2	38	2	MM4554K11	Pipe Plug
7	3	NNM103	Recessed Nut	39	2	AAF10289	Brass Tee
8	8	SSHC01048	Scr,Hx Cp 1/4-20x3/4	40	2	AA198-503	Air Gauge
9	1	28202	Rod	41	1	28201	Cross Block
10	3	K-102-21	Threaded Rod	42	8	SSZH#10064	Scr,Hx Sh Me #10x1
11	2	SSZH#6096	Scr,Sh Mtl #6x1 1/2	43	AR	1278-8DPD2	Pneumatic Diagram
12	1	ZX3837	V-Belt	44	3	WWF5/16	5/16 Flat Washer
13	5	SSZH#10128	Scr,Hx Sh Me #10x2	45	3	WWL5/16	5/16 Lock Washer
14	3	SSZH#10192	Scr,Hx Sh Me #10x3	46	2	AA198-RP3	Air Regulator
15	7	SSZS93032	Scr,Sh Me 10-16x1/2 sd	47	6	AAQME-5-4	Quick Male Elbow
16	2	TT86069	Terminal Ring	48	6	MMSLD-ECH	Rubber Bumper
17	10	WWSF1/4	SAE 1/4 Flat Washer	49	2	AAQMC-5-8	Quick Male Conn
18	10	WWL1/4	1/4 Lock Washer	50	4	SSPP80032	Scr,Pn Hd Ph 6-32x1/2
19	2	AAQME-3-4	Quick Male Elbow	51	2	SSSC01040	Scr,So Cp1/4-20x5/8
20	1	40-101	Table Top	52	1	AA198-5110	Filter
21	1	40-300G	Control Panel	53	1	SSCH01040	Scr,Hx Cp 1/4-20x5/8
22	4	1278-6307	Leg Sub-Assy	54	1	AP-1721	Stand Base
23	1	1278-8005	Frame Weldment	55	2	WWF3/8	Flat Washer
24	1	1278-6316	Left Door	56	1	4080-003	Control, Serial Bus
25	1	1278-6317	Rear Door	57	4	SSPS90040	Scr,Pn Hd SI 8-32x5/8
26	1	1278-6318A	Right Door	58	1	1278-6010	Stop Button Assy
27	1	26237ALAB	Label, Reg & Panel	59	10"	EEDC1LG	Wire Duct Cover
28	AR	12788FWDET	Wiring Diagram	60	12"	EEDE2X2	Wiring Duct
29	REF	4059-AB180	Efka Motor	61	12"	EEDC2X2	Wiring Duct Cover
	REF	4059-D7-NS	Panasonic Motor	62	AR	12788FWDEL	Wiring Dia. Efka NTG
30	REF	4059-Pm75	75mm Efka Pulley	63	AR	12788FWDPT	Wiring Dia. Pan W/TG
31	4	WWSI6	Int Tooth Washer	64	AR	12788FWDPL	Wiring Dia. Pan. NTG
32	1	1278-8009	Rubber Matt	65	1	CCCL12F	Collar,Clamp



**40-300G Control Panel, Elec/Pneumatic**

AAC Drawing Number 191772C Rev.15

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	1	40-301B	PANEL, PNEU/ELEC	28	1	AAQMF-144	6 - AIR MANIFOLD
2	1	EECA491024	CONTACTOR	29	6	FF1724	STRAIN RELIEF
3	1	AAE12788-11A	SOLVALVE ASSY.	30	2	EE17518	CORD, POWER, IEC, F
4	1	40-320	AC PWR DISCONNECT ASSY	31	1	12788-503	CABLE, AIR PRES. SW
5	1	FFRAV781BW	SURGE PROT.	32	20'	FF19510	CABLE, 3X16 AWG
6	6	FF264-341	TERMINAL BLOCK GRY	33	4.5'	EE16-3C2406	CABLE, 3X16 AWG
7	3	FF264-347	TERMINAL BLOCK GRN	34	19	FFSC10002	COVER, STRAIN RELIEF
8	3	FF264-371	END CAP	35	19	FF100F2202	CONN IDC .100 22GA
9	1	AAVF51FM1B	AIR/ELEC PRES SW	36	2	TTSRBS82908	TERM RING #8 14-16
10	48"	EEDF2X2	DUCT, WIRE, 2 x 2	37	4	TTBB5263	TERMINAL 14-16 AWG
11	AR	12788FWDPL	DIARGRAM, WIRING, SB.	38	1	FF3077-28	WIRE 16 AWG GRN/YEL
12	48"	EEDC2X2	DUCT, WIRE, COVER	39	1	FF3077-7	WIRE, 16 AWG BRN
13	15"	EEDC1LG	DUCT, WIRE, COVER	40	1	FF3077-6	WIRE 16 AWG BLU
14	1	4081018	CABLE,CONTROLLER	41	3	NNH8-32	HEX. NUT, 8-32
15	1	4080-990R	PWR. SUPPLY	42	15	WWF8	FLAT WASHER
16	3	4080-110	QUAD-INPUT 4	43	15"	EEDF1X2	DUCT, WIRE, 1 x 2
17	2	4080-120	OPTO-ISO INPUT	44	22	SSSC90024	SCREW, SOCK CAP
18	1	4080-130	OPTO-ISO OUTPUT	45	2	SSSC70024	SCREW, SOCK CAP
19	5	4080-140	4-OUTPUT	46	2	SSPPT90064	SCREW, PAN HD PHILLIPS 8-32 X 1, SELF TAP
20	1	4080-150	PROGRAM MODULE	47	3	FFRK44TBS4	CABLE, AE PLUG
21	1	4080-930	DATA MODULE	48	1	12788-504	CABLE, PROX SW EXT
22	1	4080-980	SBUS-CTROL ADAP	49	AR	1278-8FLAB	LABEL PACKAGE
23	1	4080-788	BUS CABLE ASSY	50	1	12788-510	JUMPER, 8 PIN, S-BUS
24	1	12788-502	CABLE,FOOT PEDAL	51	AR	12788FWDPT	DIAG,WIRING,PANA,W/T/G
25	1	AAQUY-4-4	QUICK UNION Y	51	AR	12788FWDPL	DIAG,WIRING,PANA,N/T/G
26	1	AAQUY-5-5	QUICK UNION	51	AR	12788FWDET	DIAG,WIRING,EFKA,W/T/G
27	1	AAQUY-5-4	QUICK UNION Y	51	AR	12788FWDEL	DIAG,WIRING,EFKA,N/T/G

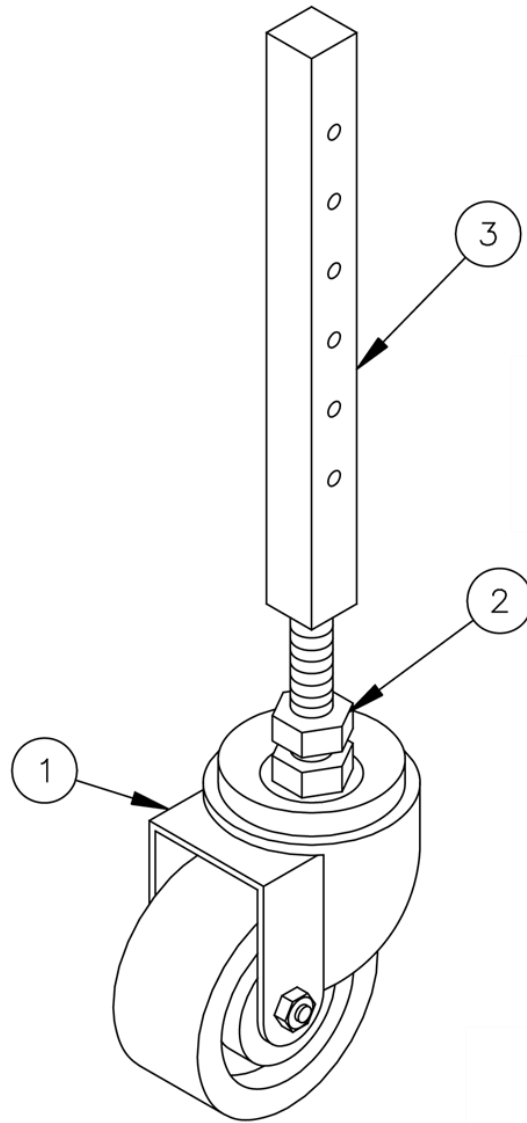


- ① WIRE LEADS ON SY3340 TO BE 600mm MIN.
- ② WIRE LEADS ON SY3140 TO BE 300mm MIN.
- ③ SUPPLY BLOCKING DISC HERE

## AAE12788-11A 11 Solenoid Assembly

AAC Drawing Number 192033A Rev 1

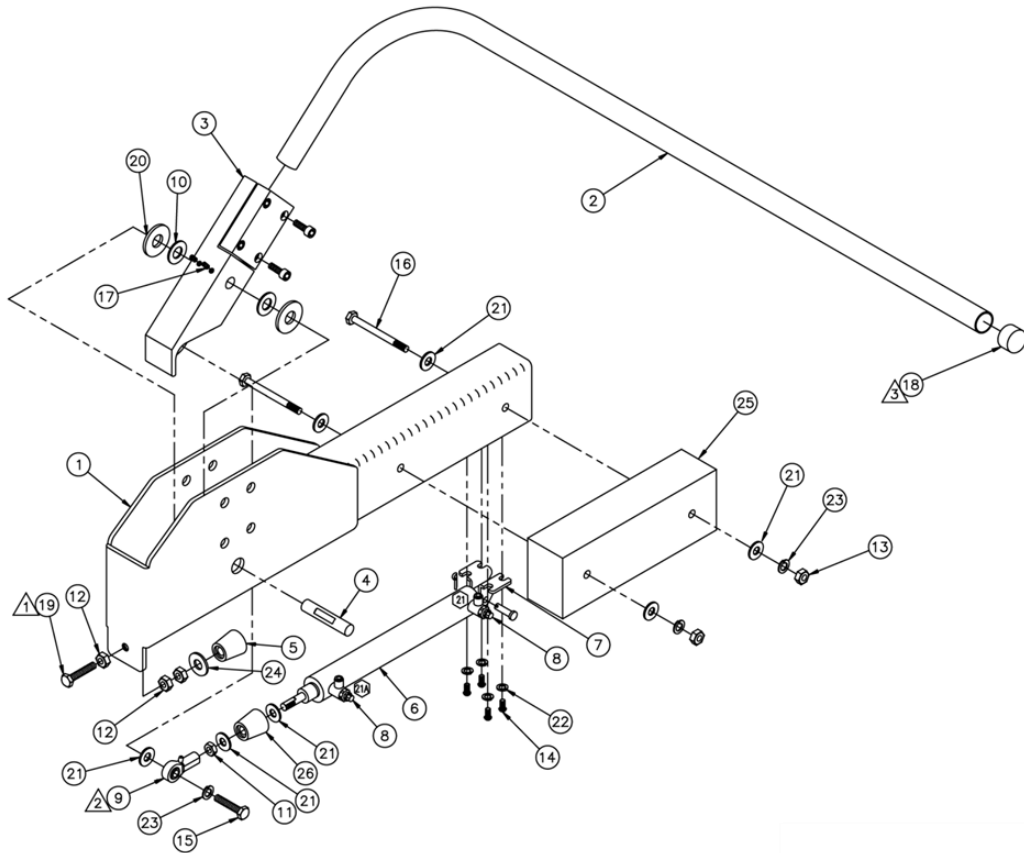
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	SY3340	Double Solenoid	7	7	SX3000-50-1A-N3	Block Assembly, 5/32
2	11	SY3140-5LZ	Solenoid	8	9.24"	VZ1000-11-1-4	DIN Rail
3	1	SX3000-53-1A	End Cap, Left	9	3	AN203-KM8	Silencer, EXH Port
4	1	SX3000-52-1A	End Cap, Right	10	3	KQR07-09	Reducing Fitting
5	3	AAESX30004	Sup/Exh Block	11	1	AAESX30771A	Blocking Disc.
6	4	AAESX3007	Block Assy, 1/4				



## 1278-6307 Leg, Sub-Assembly

AAC Drawing Number 123194A Rev 0

NO.	QTY	PART #	DESCRIPTION
1	1	MM503022LB	Caster, Rubber
2	1	NNH1/2-13	Nut, Hex, 1/2-13
3	1	26127	Leg



NOTES:

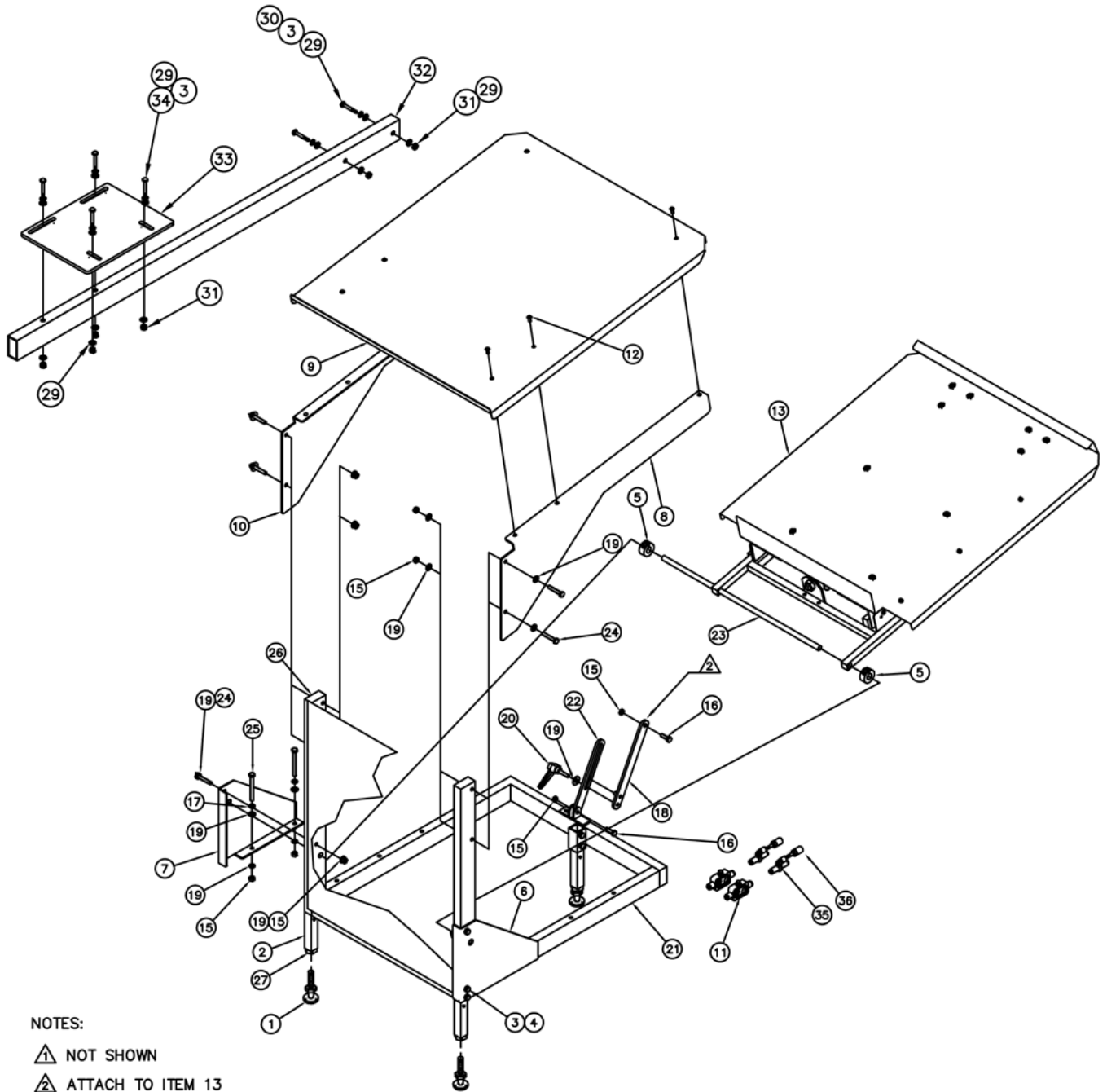
- ▲ CUT SCREW TO 2-1/2 IN.
- ▲ FACE ZERK FITTING UP.
- ▲ USE SUPER GLUE.

## 1278-6205F Wiper Bar Assembly

AAC Drawing Number 191739C Rev 8

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	1278-6214	Weldment Flip Stacker	14	4	SSBC01032	Sc, Btn Cp 1/4-20x1/2
2	1	1278-6233	Wiper Tube	15	1	SSHC10064	Scr, Hx Cp 5/16-18x1
3	1	1278-6245	Wiper Lever Arm	16	2	SSHC10320	Scr, Hx Cp 5/16-18x5
4	1	1278-6253	Lever Shaft, Wiper	17	2	SSSS01032	Sc, So St KP 1/4-20x1/2
5	2	51295A	Mount Isolator	18	1	MM9753K56	Vinyl Cap
6	1	AAC6DP-6	Cylinder, Air	19	1	SSHC25224F	Scr, Hx Cp FTh 3/8-16x3 1/2
7	1	AAFD-167	Pivot Bracket	20	2	WWF1/2	Washer, Flat
8	2	AA198RA508	Flow Control	21	3	WWFS5/16	Flat Washer
9	1	BBAW-5Z	Rod End	22	4	WWL1/4	Lock Washer
10	2	BBTT1001	Bronze Bearing	23	3	WWL5/16	Lock Washer
11	1	NNJ5/16-24	Jam Nut	24	1	WWF3/8	Washer, Flat
12	3	NNH3/8-16	Hex Nut	25	1	1278-6214C	Stacker Spacer
13	2	NNH5/16-18	Hex Nut	26	1	51295AM	Isolator, Modified





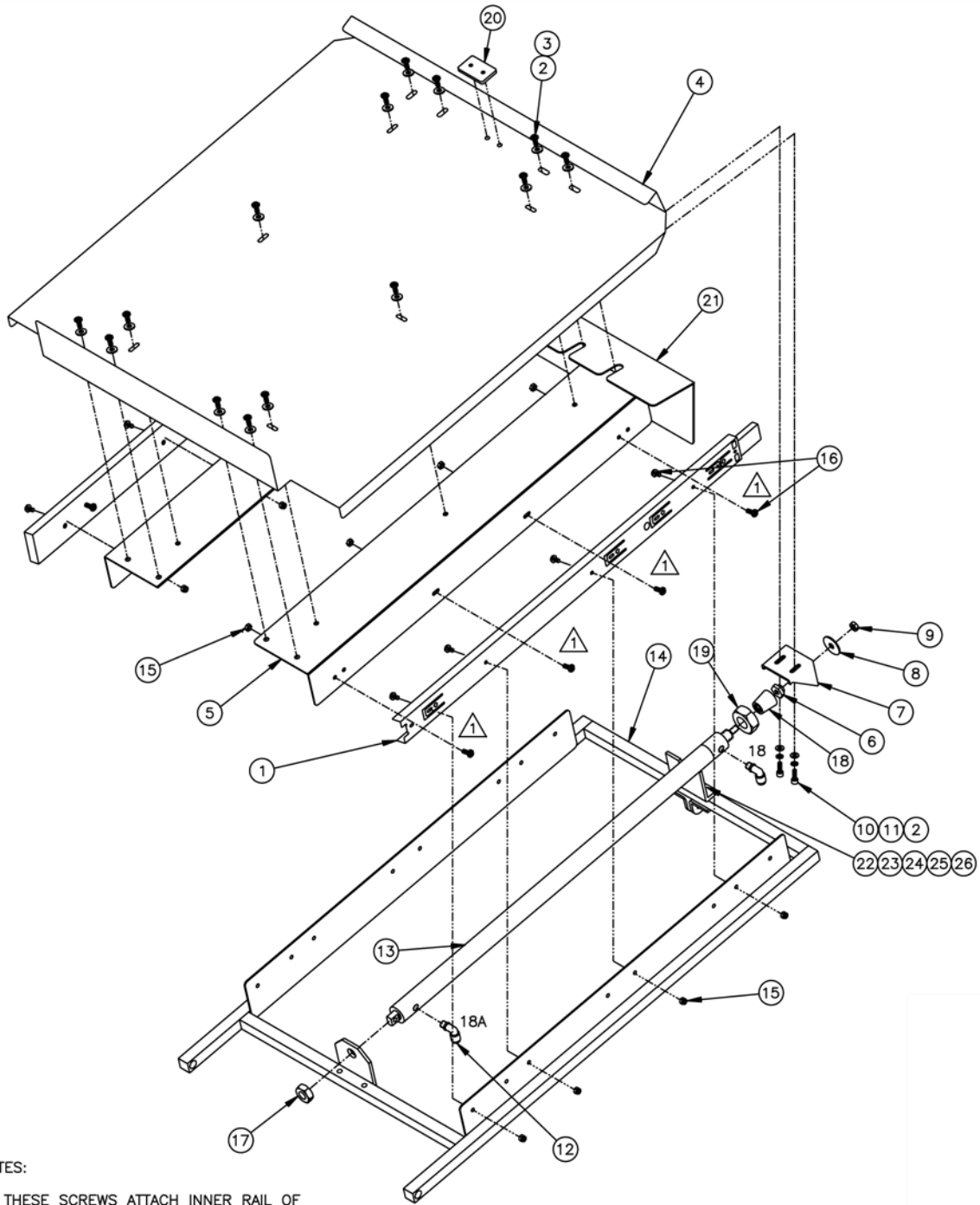
NOTES:

- △ NOT SHOWN
- △ ATTACH TO ITEM 13

**1278-6200K Stacker, Horizontal**

AAC Drawing Number 191718C Rev 12

NO	QTY	PART #	DESCRIPTION
1	3	MMFB4444	FOOT, RUBBER
2	3	26127	LEG,8.25 L
3	12	WWL1/4	WASHER, LOCK, 1/4
4	6	SSHC01048	SCREW, HEX CAP 1/4-20 X 3/4
5	2	CCCL8F	COLLAR, CLAMP, 1/2"
6	1	1278-62011	GUSSETT, RIGHT CORNER
7	1	1278-62012	GUSSETT, LEFT CORNER
8	1	1278-6298	GUSSETT, RIGHT
9	1	1278-6268A	TOP PLATE
10	1	1278-6297	GUSSET, LEFT
11	2	AA3000F-07	IN-LINE FLOW CONTROL
12	6	SSBC01032	SCREW, BOTTOM CAP 1/4-20 X 1/2
13	1	1278-6200KA	STACKER SUB-ASSEMBLY
14	AR	1278-6200KR	INSTRUCTIONAL, STACKER
15	12	NNE5/16-18	NUT, ELASTIC LOCK
16	2	SSHC10064	SCREW, HEX CAP 5/16-18 X 1
17	4	WWL5/16	WASHER, LOCK, 5/16
18	1	1278-6286	PIVOT, UPPER
19	21	WWF5/16	WASHER, FLAT, 5/16
20	1	TTH32426	HANDLE, THREADED
21	1	1278-6278	WELDMENT, STACKER FRAME
22	1	1278-6285	PIVOT, LOWER
23	1	1278-6291	ROD, STACK PIVOT
24	8	SSHC10112	SCREW, HEX CAP 5/16-18 X 1-3/4
25	4	SSHC10176	SCREW, HEX CAP 5/16-18 X 2-3/4
26	1	1278-6278A	WELDMENT, STACKER FRAME
27	3	NNH1/2-13	NUT, HEX
28	16'	AATP4-1	1/4" AIRLINE
29	12	WWFS1/4	FLAT WASHER
30	2	SSHC01160	SCREW, HEX CAP 1/4-20 X 2-1/2
31	6	NNH1/4-20	HEX NUT
32	1	40-901B	STACKER ALIGN BAR
33	1	40-902	STACKER ALIGN PLATE
34	4	SSHC01192	SCREW, HEX CAP 1/4-20 X 3
35	5	AA0240F-07A	N-LINE QUICK EXHAUST
36	2	AAN103X235	1/4 PUSH-IN MUFFLER



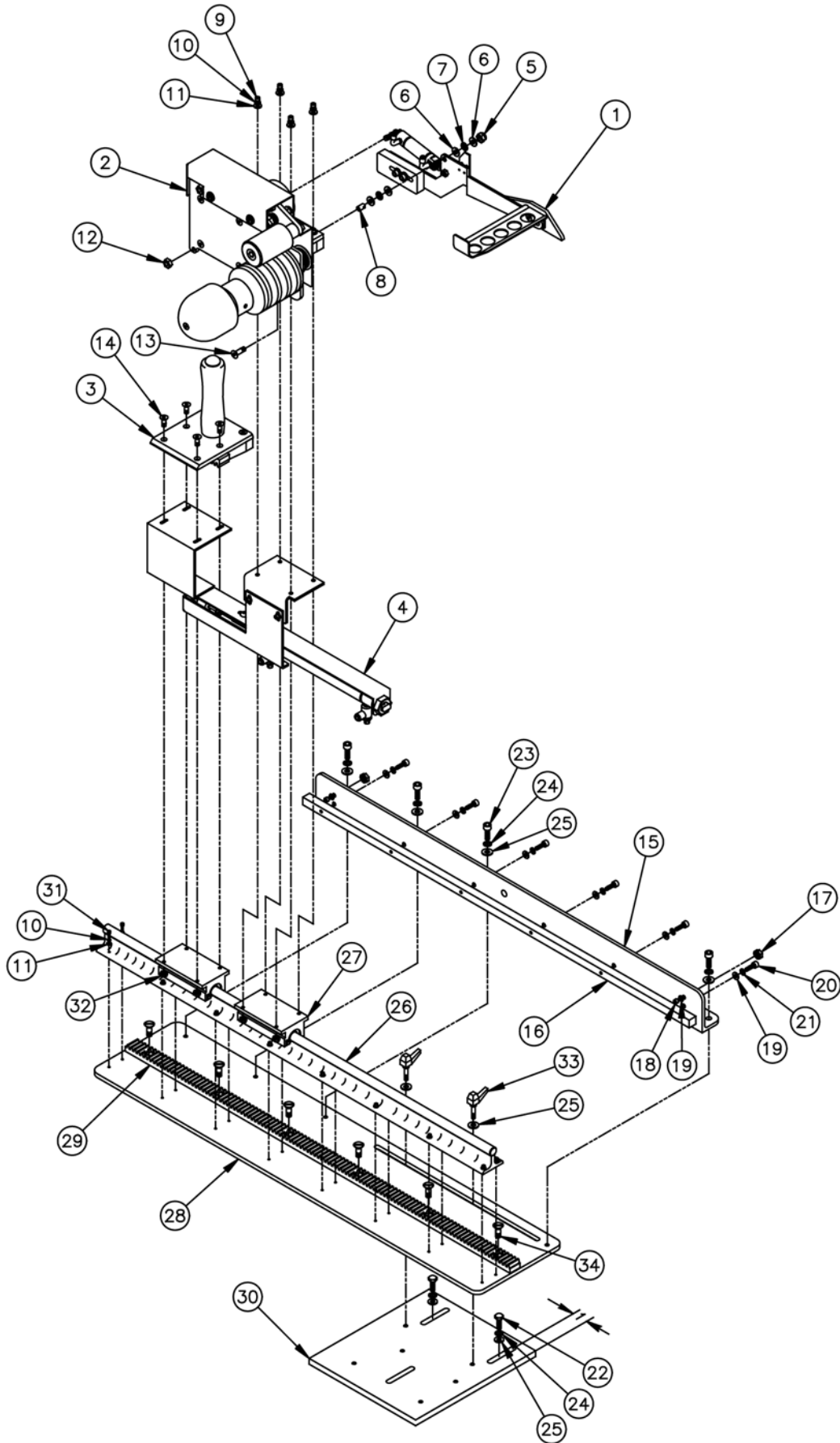
NOTES:

 THESE SCREWS ATTACH INNER RAIL OF DRAWER SLIDE TO 1278-6288, INSIDE DRAWER ANGLE.

**1278-6200KA Stacker Sub-Assembly**

AAC Drawing Number 192124C Rev 6

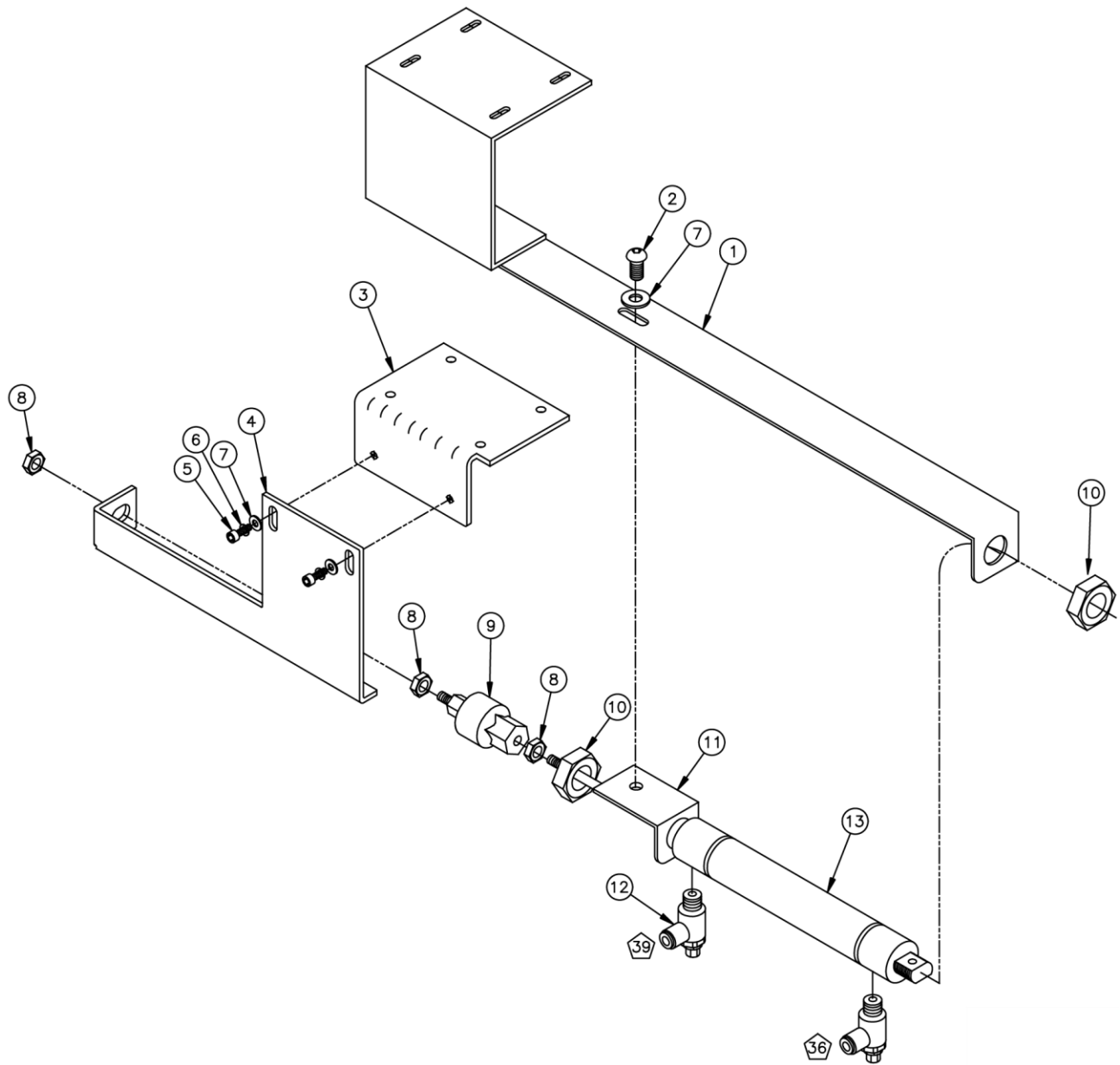
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	CC3832A28M	Slide, Set of 2	14	1	1278-6293	Frame
2	16	WWFS10	No. 10 Washer	15	16	NNE8-32 8-32	Elastic Nut
3	14	SSPS98024	Scr, Pan Sl 10-32x 3/8	16	16	SSPP90024	Scr,Pn Hd Ph 8-32x3/8
4	1	1278-6289	Slide Plate	17	1	NNJ5/8-18	Jam Nut
5	2	1278-6288	Supprt Angle	18	1	51295A	Bumper
6	1	1278-6295	Rod End	19	1	NNH5/8-18	5/8-18 Hex Nut
7	1	1278-6296	Bracket	20	1	1278-3140E	Nut Plate
8	1	WWFE020	5/16 Fender Washer	21	1	1278-6277	Sleeve Deflector
9	1	NNJ5/16-24	5/16-24 Jam Nut	22	1	1278-6299	Nose Mount Bracket
10	2	WWL10	No. 10 Lock Washer	23	2	SSHC01096	Screw, Hex Head
11	2	SSPP98024	Scr,Pn Hd Ph 10-32x3/8	24	4	WWF1/4	Flat Washer
12	2	AAEME-4-8	Euick Male Elbow	25	2	WWL1/4	Lock Washer
13	1	AAC6DP-24	Cylinder	26	2	NNH1/4-20	Hex Nut



**40-400C Left Roller Assembly**

AAC Drawing Number 191446C Rev 12

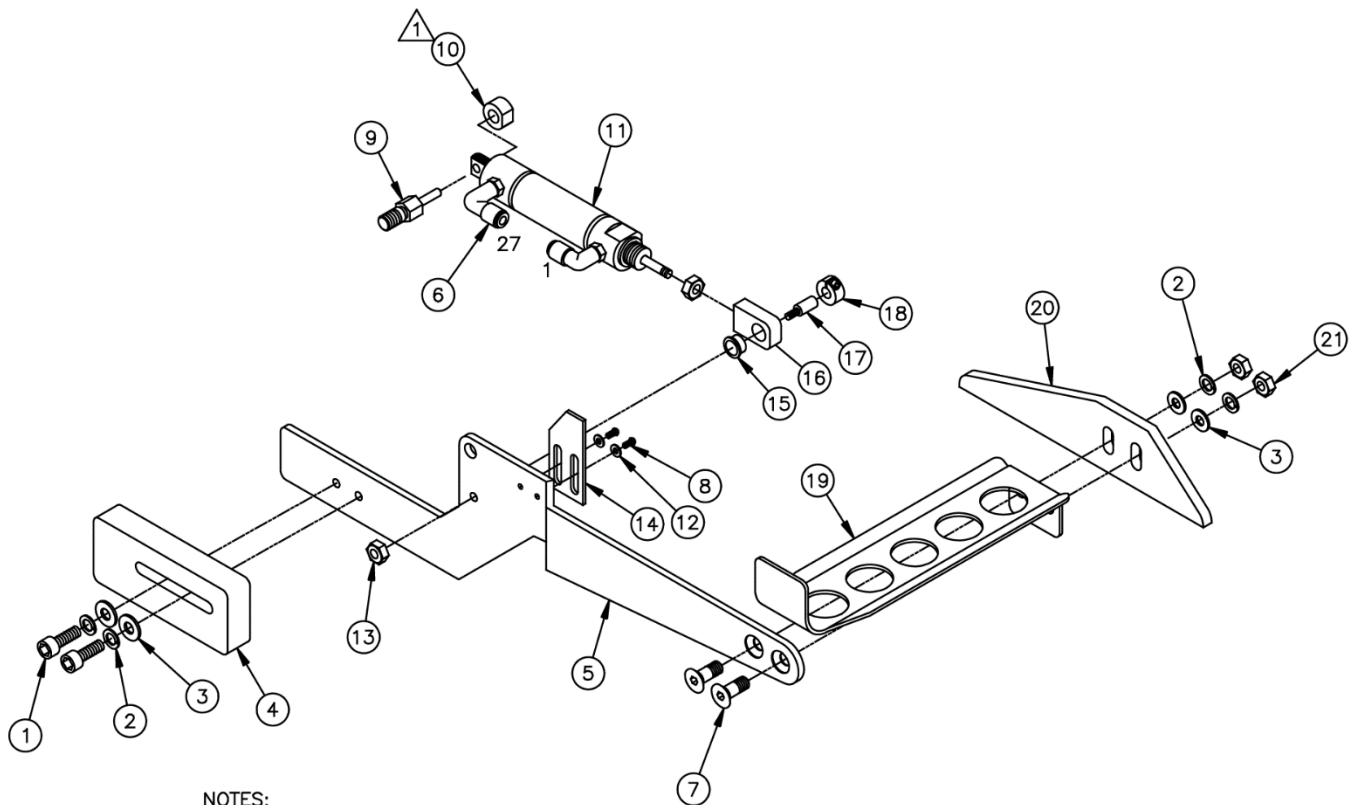
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-4003	Tension Arm Sub-Assy	18	2	SSSC98032	Scr,So Cp 10-32x1/2
2	1	40-4002	Left roller sub-Assy	19	8	WWFS10	SAE Flat Washer
3	1	40-4004	Roller Lock Sub-Assy	20	6	SSSC98048	Scr,So cp 10-32x3/4
4	1	40-4001	Slide Cylinder Sub.Assy	21	6	WWL10	Lock Washer
5	1	NNE10-32	Elastic Nut	22	2	SSHC01112	Scr,Hx Cp 1/4-20x1-3/4
6	4	BBTRA411	Washer, Thrust	23	4	SSSC05040	Scr,So cp 1/4-28x5/8
7	2	BBNTA411	Bearing Thrust	24	4	WWL1/4 1/4	Lock Washer
8	1	40-438	Pin, Pivot	25	6	WWFS1/4	SAE Flat Washer
9	4	SSSC80056	Scr,So CP	26	1	40-466	Rail & Support Assy
10	20	WWL6	Lock Washer	27	2	BBKTNZ080PPP	Bearing Twin
11	20	WWFS6	SAE Flat Washer	28	1	40-443	Main Mtg Plate
12	1	NNJ1/4-28	Jam Nut	29	1	40-446	Gear Rack
13	1	SSFC98064	Scr,Fl Al Cp 10-32x1	30	1	1278-6408	Slide Adj Plate
14	4	SSFC80048	Scr,Fl al Cp 3/32x3/4	31	16	SSSC80032	Scr,so Cp 6-32x1/2
15	1	40-444	Slide Rail Mtg Ang	32	8	NNK6-32	Kep Nut
16	1	40-445	Follower, Rail-Cam	33	2	TTH32415	Threaded Handle
17	2	NNK10-32	Kep Nut	34	6	SSFC05032	Scr,Fl Al Cp 1/4-28x1/2



## 40-4001 Slide Cylinder Sub-Assembly

AAC Drawing Number 191755C Rev 1

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-433B	Bracket Weldment	8	3	NNJ5/16-24	Jam Nut
2	1	SSBC98016	Scr,But Cp 10-32x1/4	9	1	AAF312	Alignment Coupling
3	1	40-435	Cyl Assy, Mtg Brkt	10	2	NNJ5/8-18	Jam Nut
4	1	40-455	Support Bracket	11	1	1278-6437	Bracket
5	2	SSSC98024	Scr,So Cp 10-32x3/8	12	2	AA198RA508	Flo Control
6	2	WWL10	Lock Washer	13	1	AAC6DP-6	Cylinder, Air, Da
7	2	WWFS10	SAE Flat Washer				



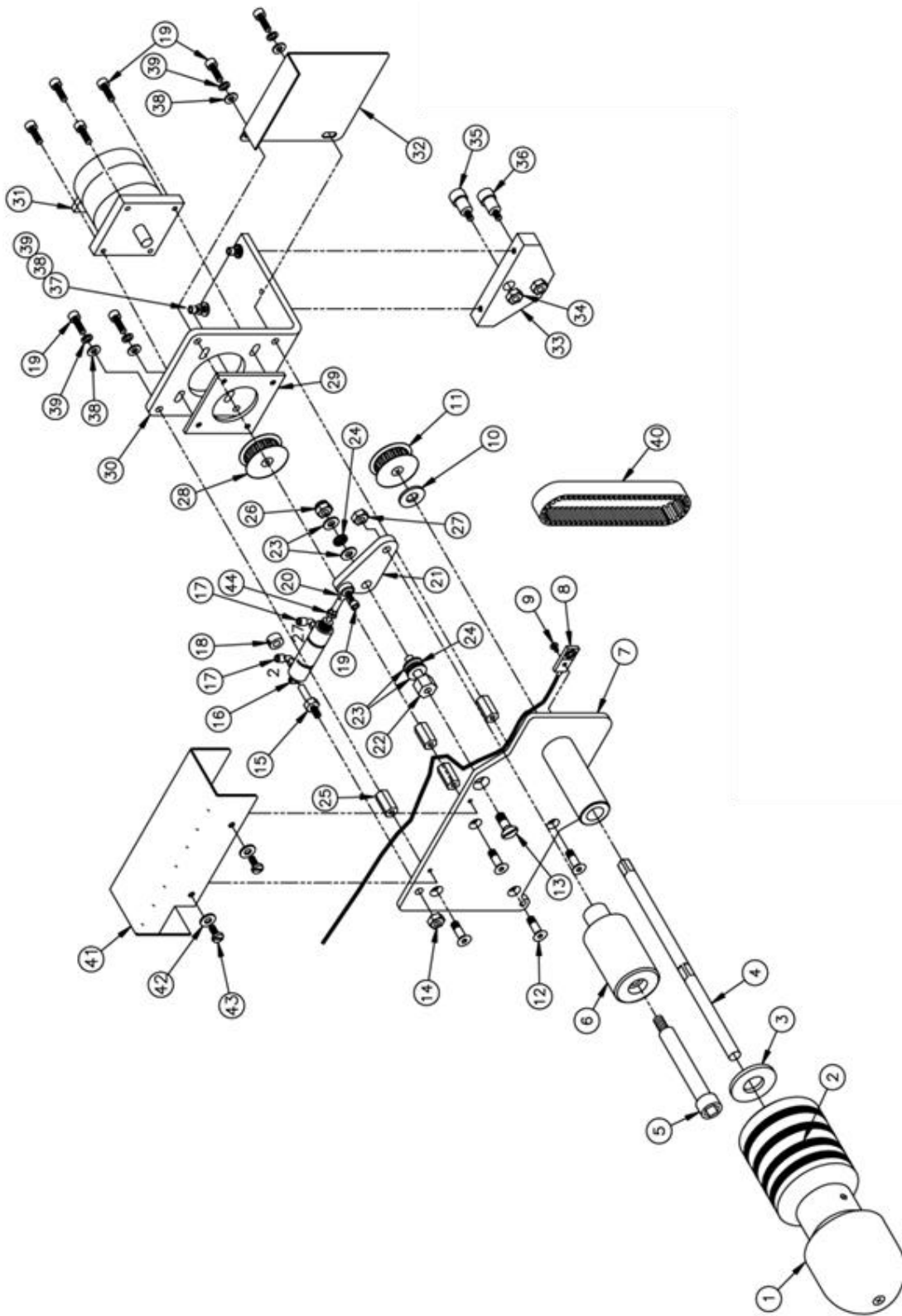
NOTES:

▲ 10 INSTALL COLLAR WITH FLAT FACING THE BODY OF THE CYLINDER (AS SHOWN)

## 40-4003 Tension Arm Sub-Assembly

AAC Drawing Number 191757C Rev 3

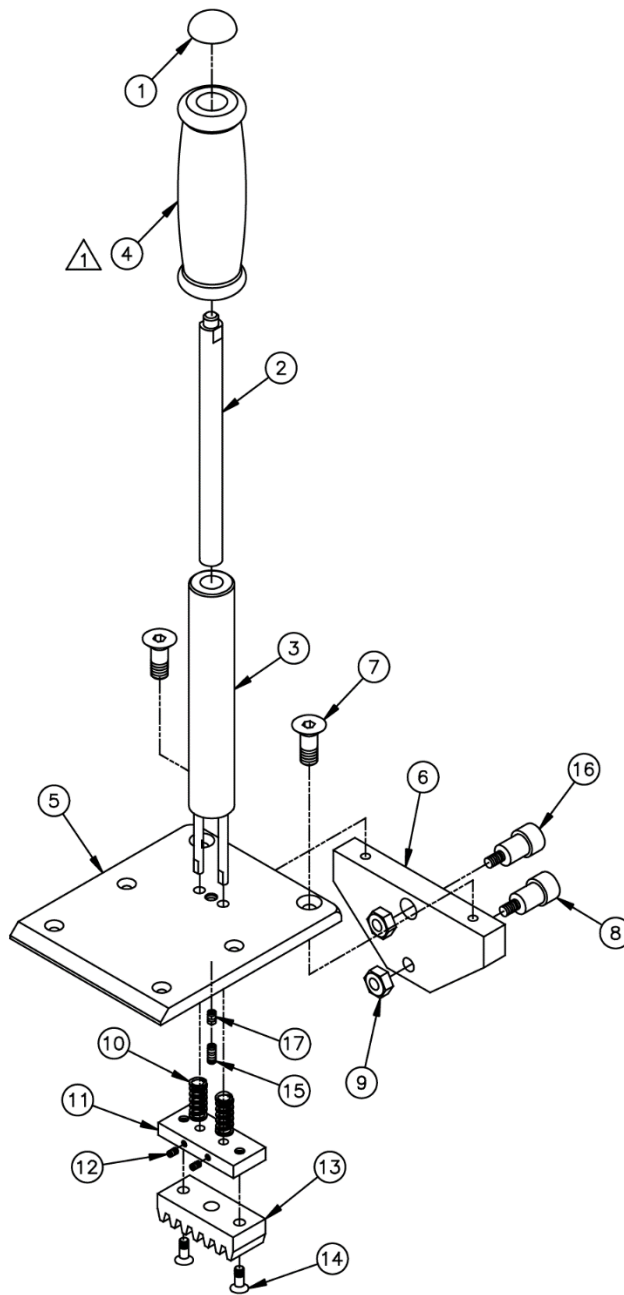
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	2	SSSC95048	Scr,So Cp 10-24x3/4	12	2	WWFS6	SAE Flat Washer
2	4	WWL10	Lock Washer	13	1	NNH10-24	Hex Nut
3	4	WWFS10	SAE Flat Washer	14	1	40-449	Plate, Prox Target
4	1	40-457	Couter Weight	15	1	BB4L4F	Nyliner Bearing
5	1	40-459	Arm, Tension	16	1	40-440	Front Clevis
6	2	AAEME-5-10	Euick Male Elbow	17	1	40-436	Pin, 9/16, 10-24
7	2	SSFC98040	Scr,Fl Al Cp 10-32x5/8	18	1	CCCL4F	Collar
8	2	SSBC80016	Scr,But Cp 6-32x1/4	19	1	40-460	Tension Arm Plate
9	1	40-439	Stud	20	1	40-458	Cam, Deflector
10	1	CCSC21/8M	1/8 Set Collar	21	2	NNH10-32	Hex Nut
11	1	AACE9D0.5U	Cyl, Air Glass				



**40-4002 Left Roller Sub-Assembly**

AAC Drawing Number 191756C Rev 3

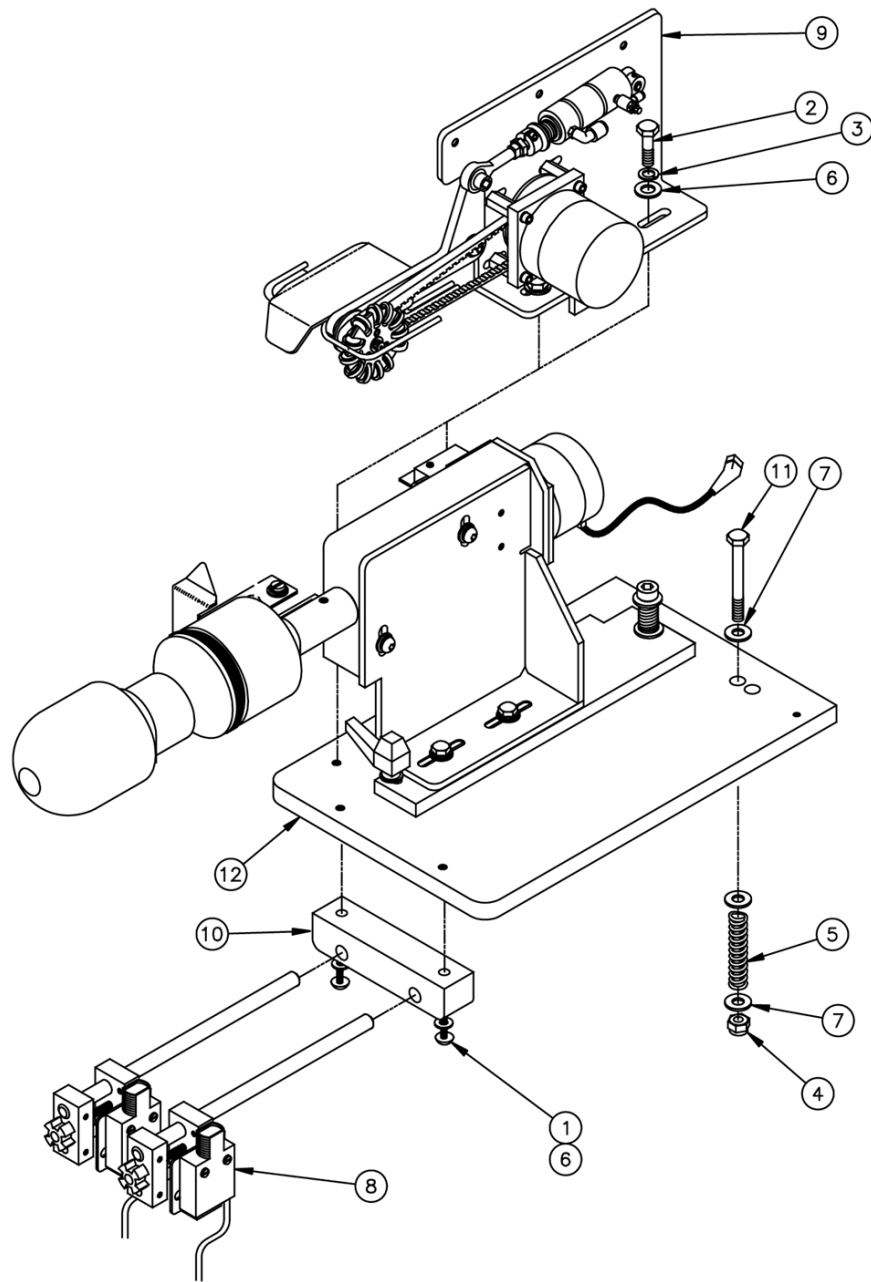
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-451	Roller, Left, Drive	23	4	BBTRA411	Washer, Thrust
2	1	MMAS568-331	O-Ring	24	2	BBNTA411	Bearing Thrust
3	1	BBTRA613	Washer, Thrust	25	4	40-437	Spacer
4	1	40-452	Flatted Shaft	26	1	NNE1/4-28 1/4	Elastic Nut
5	1	SSAS024192	Scr,Al Sh 3/8x3	27	1	NNH5/16-18	Hex Nut
6	1	40-442	Idler Roller	28	1	PP18H3710	Pulley
7	1	40-456	Main Mtg Plate	29	1	1278-6690	Nut Plate
8	1	1278-7055A	Prox Switch W/Plug	30	1	40-454	Mount, Step Motor
9	1	SSPS50024	Scr,Pn Hd Sl 2-56x3/8	31	1	AP-22E-103	Step Motor
10	1	BBTT604	Bearing, Bronze	32	1	40-461	Belt Cover
11	1	40-441	Timing Pulley	33	1	40-453	Mounting Plate
12	4	SSFC98032	Scr,fl Al Cp 10-32x1/2	34	2	NNJ1/4-28	Jam Nut
13	1	SSFC05032	Scr,Fl Al Cp 1/4-28x1/2	35	1	MMCCFEL5/8-SB	Cam Follower
14	1	NNJ5/16-18	Jam Nut	36	1	MMCCFL5/8-SB	Cam Follower
15	1	0411-1853B	Stud, Cyl, Mount	37	2	SSSC95048	Scr,So Cp 10-24x3/4
16	1	1975-213	Air Cylinder	38	6	WWFS10	SAE Flat Washer
17	2	AAEME-5-10	Quick Male Elbow	39	6	WWL10	Lock Washer
18	1	CCSC33/16	Set Collar	40	1	GG130HL037	Gear Belt
19	9	SSSC98040	Scr,so cp 10-32x5/8	41	1	40-465	Cover, Left roller
20	1	BBAW-3Z	Bearing, Rod End	42	2	WWF8	Flat Washer
21	1	40-447	Pivot, Idler Roller	43	2	SSPS90016	Scr,Pn Hd sl 8-32x1/4
22	1	0411-2741	Standoff/Pivot Pin				



## 40-4004 Roller Lock Sub-Assembly

AAC Drawing Number 191758C Rev 2

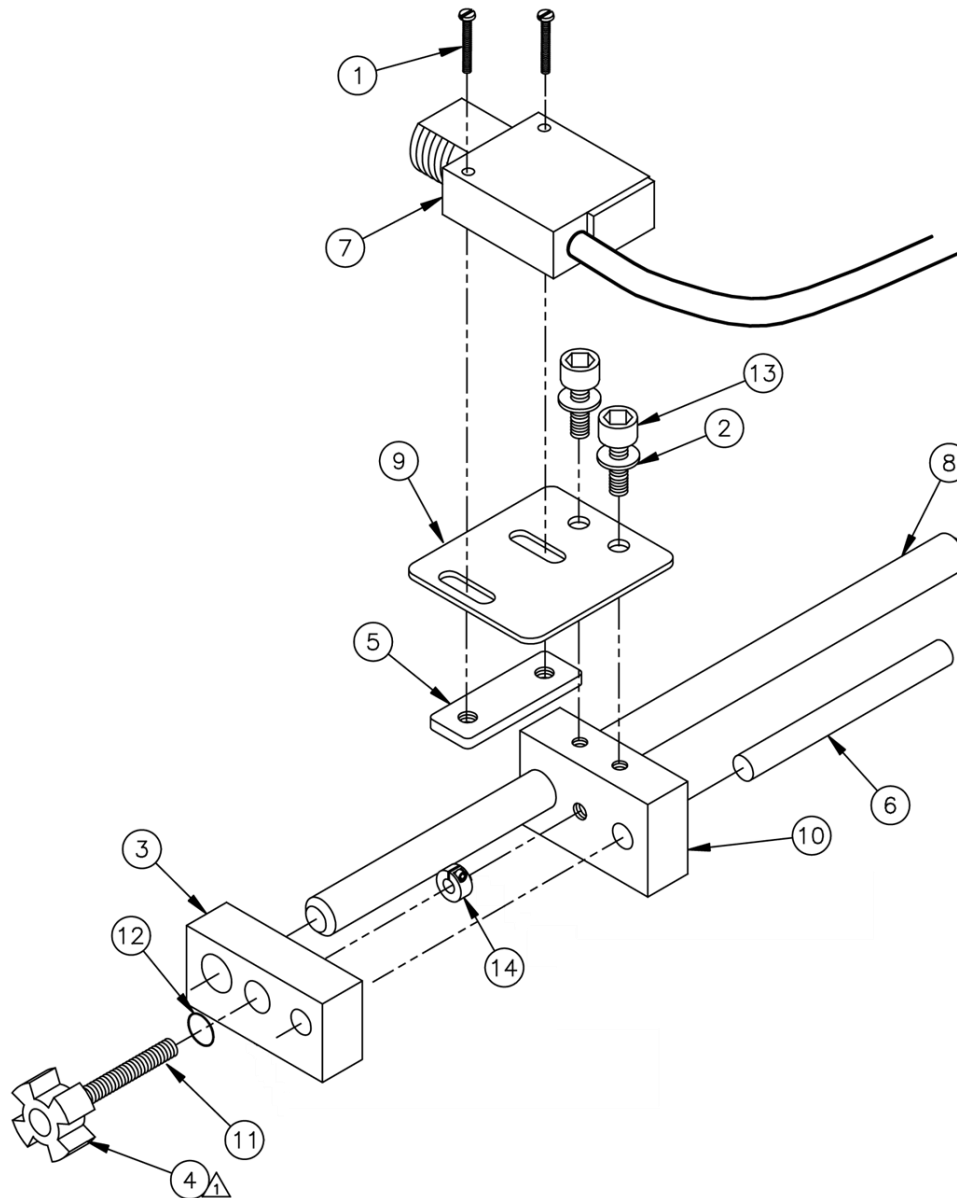
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	MM94802A029	Cap Push Nut	10	2	RRLC024C10	Spring
2	1	40-450A	Mtg Stud	11	1	40-448A	Gear Mtg Block
3	1	40-637	SiDe Adj Handle Assy	12	2	SSSS80016	Scr,So St 6-32x1/4
4	1	MMGP-105	Grip Handle	13	1	1278-6433	Slide Block
5	1	40-434C	Mounting Plate	14	2	SSFC98032	Scr,fl Al Cp 10-32x1/2
6	1	40-453	Mounting Plate	15	1	SSSS05040F	Scr,So St 1/4-28x5/8
7	2	SSFC95032	Scr,Fl Al Cp 10-24x1/2	16		MMCCFE-5/8-SB	Cam Follower
8	1	MMCCF-5/8-SB	Cam Follower	17	1	SSSS05016	Screw,Skt, Set 1/4-28x1/4
9	2	NNJ1/4-28	Jam Nut				



## 40-500F Right Roller Assembly

AAC Drawing Number 191713C Rev 3

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	2	SSBC01096	Scr,But Cp 1/4-20x1 1/2	7	3	WWFS3/8	Washer, Flat SAE
2	2	SSHC01040	Scr,Hx Cp 1/4-20x5/8	8	2	40-550B	Eye Assembly
3	2	WWL1/4	Lock Washer	9	1	40-540C	Edge Guide Sub-Assy
4	1	NNE3/8-16	Nut, Elastic	10	1	40-532	Block, Clamp
5	1	273-4F	Spring	11	1	SSHC25256	Scr,Hx Cp 3/8-16x4
6	4	WWFS1/4	Washer, Flat SAE	12	1	40-580D	Rgt Rol Upper Assy



## 40-550B Eye Assembly

AAC Drawing Number 191022B Rev 5

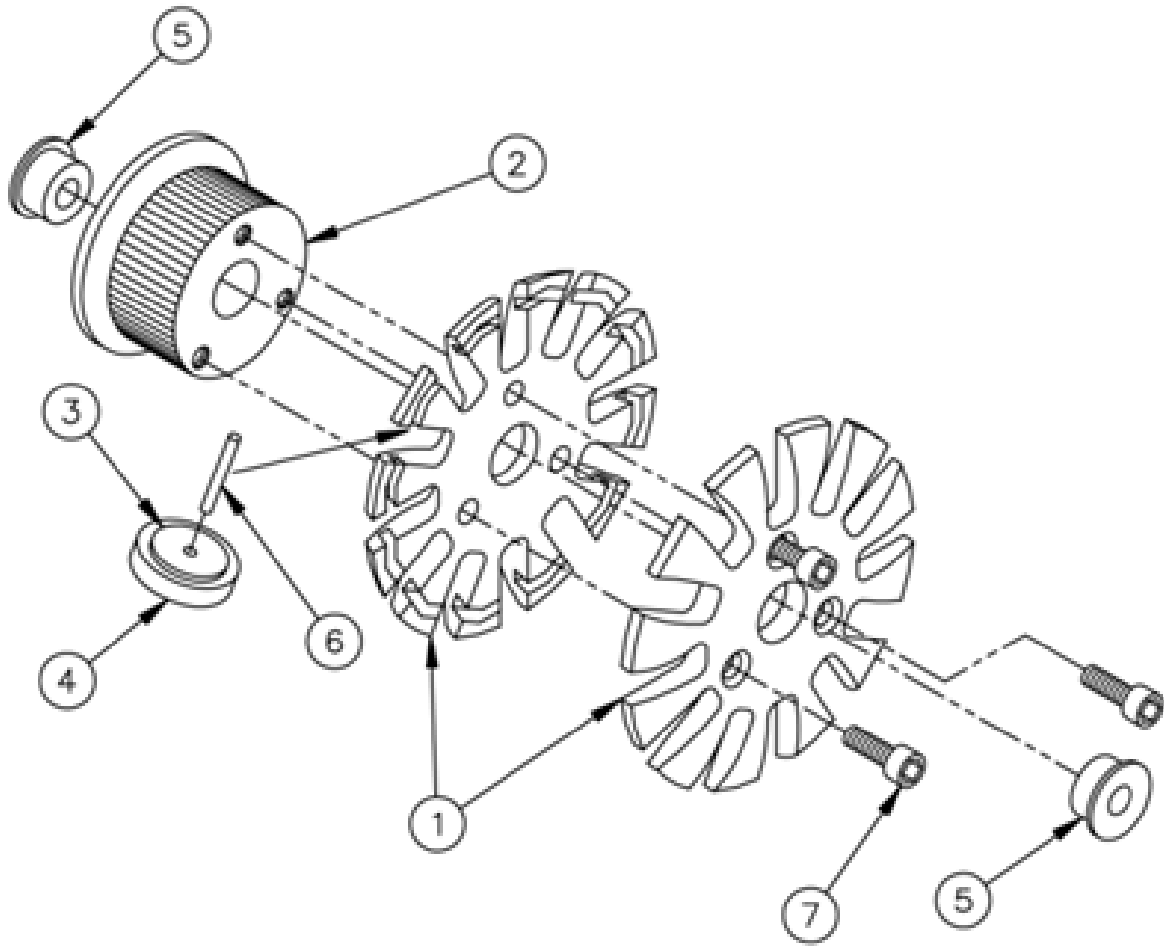
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	2	SSPS70040	Scr,Pn Hd sl 4-40x5/8	8	1	40-508	Guide Roller Shaft
2	2	WWB5/32	Brass Washer	9	1	40-551A	Eye Adj Plate
3	1	40-554	Eye Adj Bar	10	1	40-553	Eye Mount
4	1	TTCLL1APPK1	Plastic Knob	11	1	SSPS98192F	Scr,Pn Hd 10-32x3
5	1	1975-412A	Eye Nut Plate	12	1	AA198-7006	O Ring
6	1	1278-6942	1/4 Rod 2.5L	13	2	SSSC90032	Scr,so Cp 8-32x1/2
7	1	FFSM312LVQ	Elec Eye	14	1	CCCL10T	Clamp Collar



**40-540C Edge Guide Sub-Assembly**

AAC Drawing Number 191441C Rev 6

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	0411-1853D	Stud, Cyl, Mnt	15	1	40-545C	Lower Uncurler Assy
2	2	AAEME-5-10	Euick Male Elbow	16	1	SSBC01064	Scr,But Cp 1/4-20x1
3	1	BBAW-3Z	Rod End Bearing	17	1	40-630	Guide Wheel Assy
4	2	BBNTA411	Thrust Bearing	18	1	AP-22E-104	Step Motor
5	4	BBTRA411	Thrust Washer	19	1	NNE1/4-20	Elastic Nut
6	4	WWFS10	Flat Washer	20	1	SSSC95040	Scr,So Cp 10-24x5/8
7	1	CCSC33/16	Set Collar	21	8	WWL10	Lock Washer
8	1	GG6R195018	Polycord Belt	22	8	SSSC98032	Scr,So Cp 10-32x1/2
9	4	40-437A	Spacer	23	1	1278-6524A	Arm Drive Pivot
10	1	NNH10-24	Hex Nut	24	2	SSSC90024	Scr,So Cp 8-32x3/8
11	1	NNH10-32	Hex Nut	25	2	WWF8	Flat Washer
12	1	PP40DF1808	Pulley, Dbl Flange	26	1	NNH5/16-18	Hex Nut
13	1	40-544C	Lower Guide Bracket	27	1	WWL5/16	Flat Washer
14	1	SSAS016064	Scr,Al Sh 1/4x1	28	1	1975-213	Air Cylinder

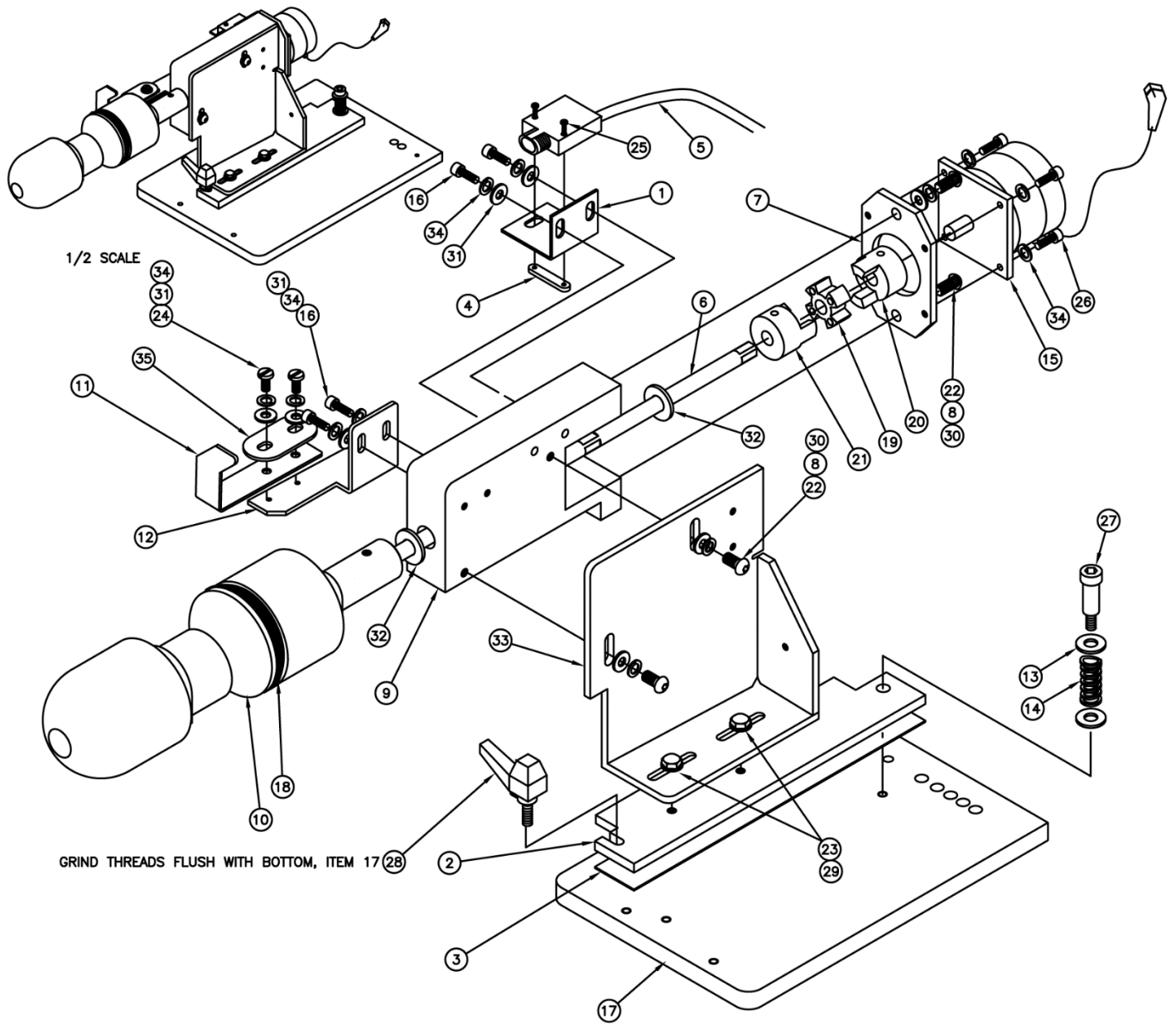


## 40-630 Guide Wheel Assembly

AAC Drawing Number 190801B Rev 4

NO.	QTY	PART #	DESCRIPTION
1	2	40-631	Guide Plate
2	1	40-636	Pulley
3	12	40-633	Guide Wheel Hub
4	12	MMAS568A202	O-Ring 1/8x1/2OD
5	2	UUPFG040504	Plastic Bearing
6	12	IID004H024SS	Dowel Pin
7	3	SSSC70040	Scr,So Cp 4-40x5/8

Service Instructions

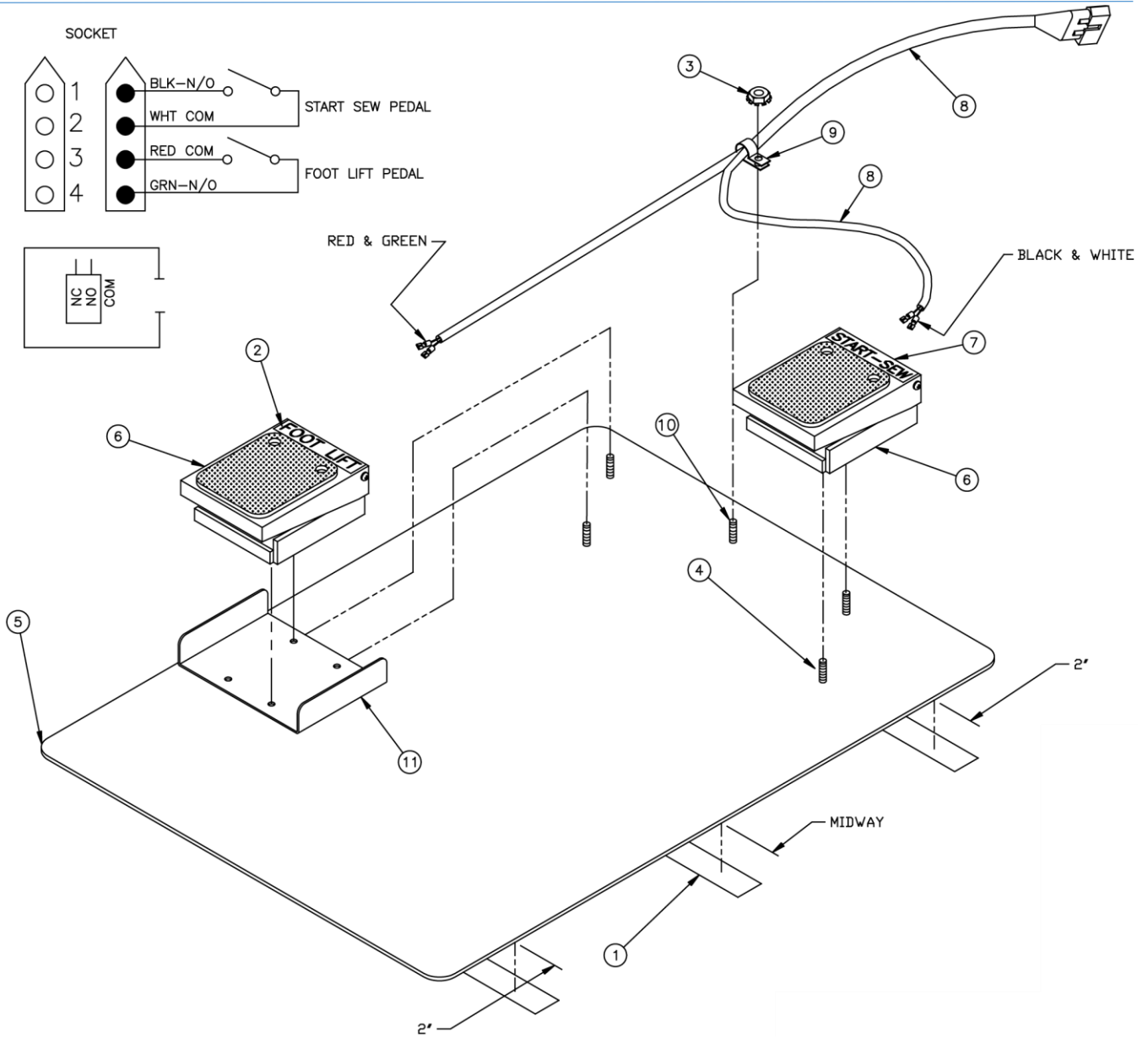


## 40-580D Right Roller Upper Assembly

AAC Drawing Number 191715C Rev.6

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	1	1278-1080	BRKT, FIN GUIDE EYE	19	1	MML050	SPIDER
2	1	40-590	SWING OUT BKT	20	1	MML050-250	COUPLING BODY
3	18"	MM130-10A1	TEFLON TAPE	21	1	MML050-375	COUPLING BODY
4	1	1975-412A	PLATE, NUT	22	4	SSBC01048	SCREW, BURRON CAP 1/4-20 X 3/4
5	1	FFSM312LVQ	ELE EYE	23	2	SSHC01032	SCREW, HEX CAP 1/4-20 X 1/2
6	1	40-409A	SHAFT, PLAIN	24	2	SSPS98024	SCREW, PAN HD SLOTTED 10-32 X 3/8
7	1	40-501A	PLATE, MTR MOUNT	25	2	SSPS70048	SCREW, PAN HD SLOTTED 4-40 X 3/4
8	4	WWL1/4	WASHER, LOCK	26	4	SSSC98032	SCREW, SOCKET CAP 10-32 X 1/2
9	1	40-519A	BLOCK, R ROLLER AXLE	27	1	SSAS020064	SCREW, ALLEN SHOULDER 5/16 X 1 X 1/4-20
10	1	40-531A	ROLLER, R DRIVE	28	1	TTH32415	HANDLE, THRD
11	1	40-573E	REFLECTOR, SEAM DET	29	2	WWF1/4	WASHER, FLAT
12	1	40-584A	TONGUE, MT BRKT	30	4	WWFS1/4	WASHER, FLAT SAE
13	2	WWFS5/16	WASHER, FLAT SAE	31	6	WWFS10	WASHER, FLAT
14	1	RRLC055G5	SPRING	32	2	BBTRA613	WASHER, THRUST
15	1	AP-22E-103	STEP MTR, MOD	33	1	40-502C	MT BRKT, MAIN
16	4	SSSC95040	SCREW, SOCKET CAP 10-24 X 5/8	34	10	WWL10	WASHER, LOCK
17	1	40-507C	PLATE SWIVEL	35	1	WW25DW1	WASHER PLATE
18	1	MMAS568-331	O-RING	36			

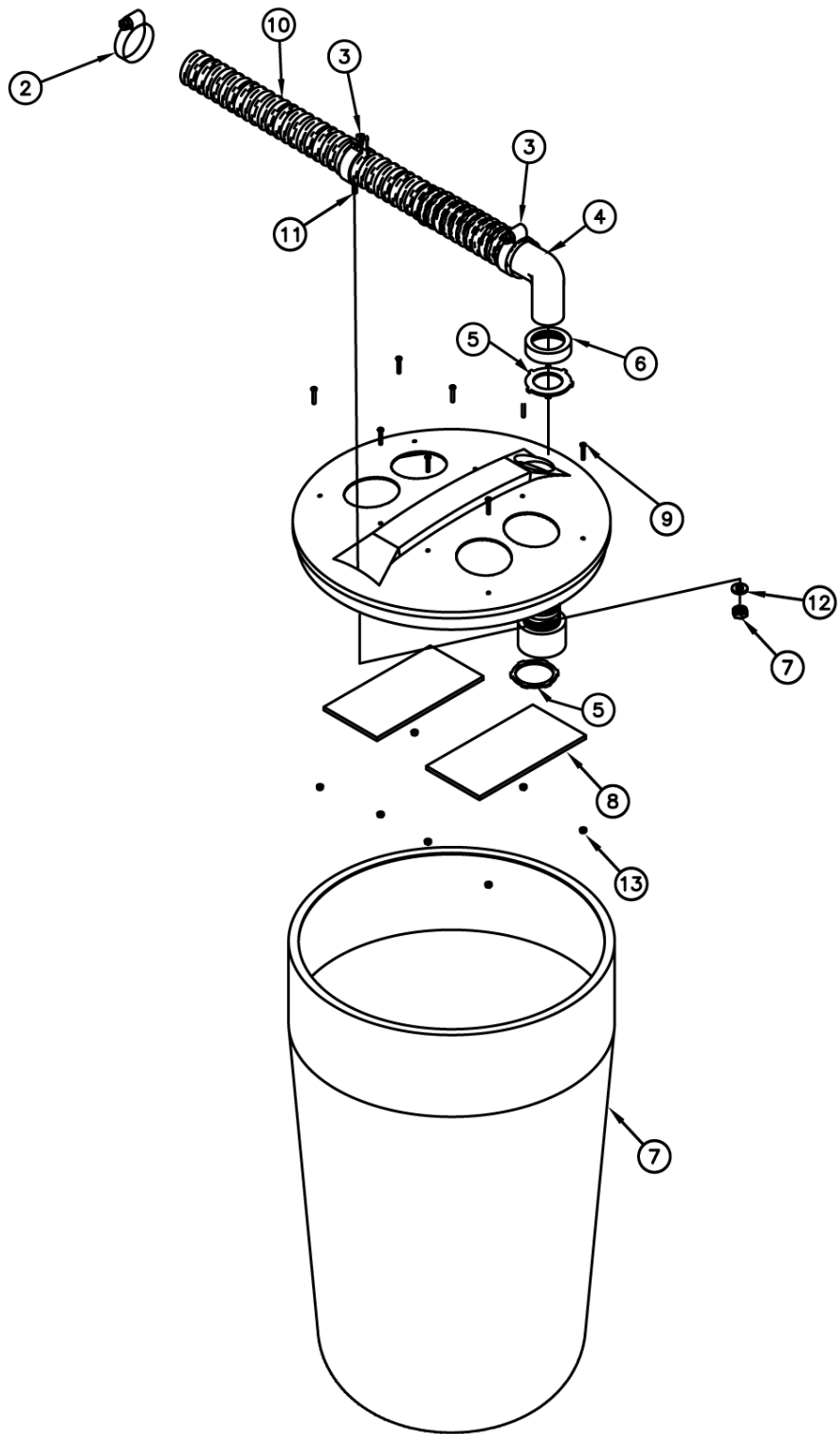
# Service Instructions



## 1278-6160D Dual Pedal Assembly

AAC Drawing Number 192819C Rev 1

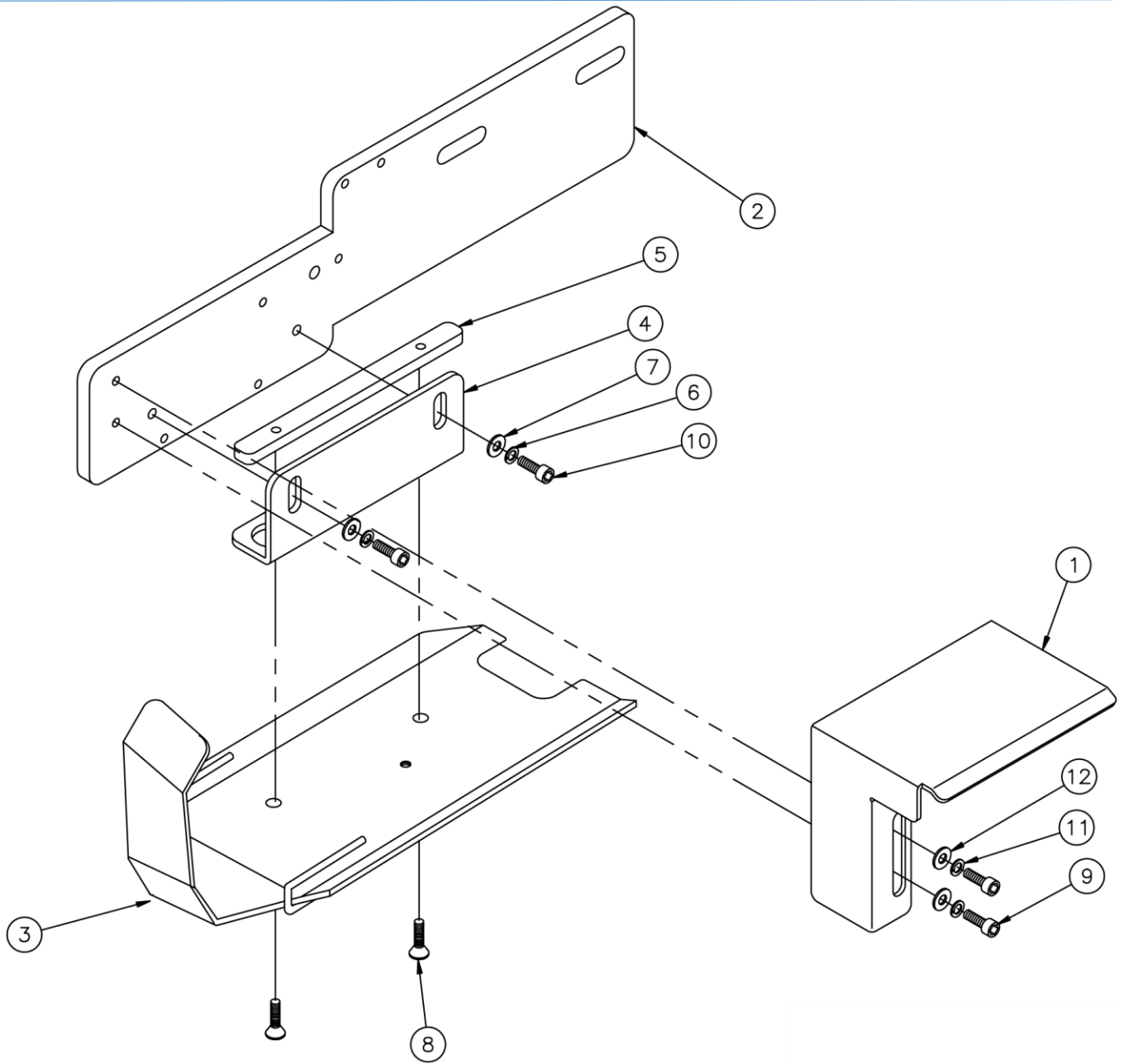
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	3'	MM6970T64	Abrasive Tape	7	AR	3844P-119A	Label
2	AR	3844P-119B	Label	8	1	12788-502A	Cable
3	1	NNK6-32	Kep Nut	9	1	AAF3/8	Plastic Clamp
4	4	SSFC80016	Screw, Flat Allen	10	1	SSFC80024	Screw, Flat Allen
5	1	1278-5051B	Plate, Foot Pedal	11	1	132556-010E	Guard
6	2	1278-6161	Foot Pedal				



**0411-1300 Waste Container Assembly**

AAC Drawing Number 191225C Rev.10

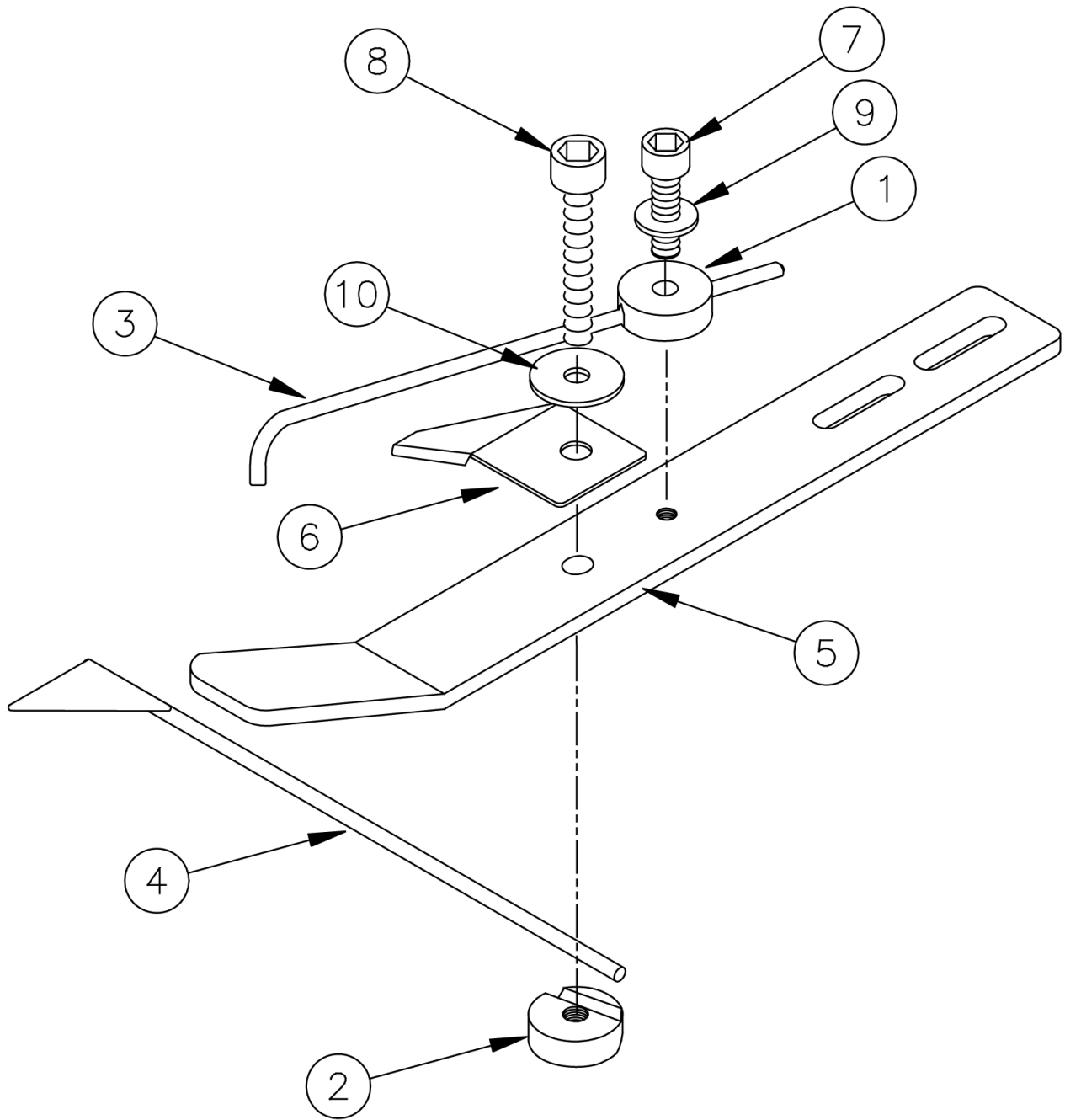
<b>NO</b>	<b>QTY</b>	<b>PART #</b>	<b>DESCRIPTION</b>
1	1	MMTC32GTAN	CONTAINER, WASTE
2	2	MM5415K16	HOSE CLAMP
3	1	MM16300	TUBE CLAMP
4	1	MMRPL150	PLAIN ELBOW
5	2	MMTC32GLN	1 1/2 CONDUIT LOCK NUT
6	1	MMTC32GR	REDUCER
7	1	NNK1/4-20	NUT
8	2	26285A	FILTER, WASTE SYS
9	8	SSPS90064	SCREW, PAN HD SLOTTED 8-32 X 1
10	6FT	MMFH150	FLEX HOSE
11	1	SSHC01032	SCREW, HEX CAP 1/4-20 X 1/2
12	1	WWF1/4	WASHER, FLAT
13	8	NNK8-32	8-32 KEP NUT



## 40-570D Top Guide Sub-Assembly

AAC Drawing Number 191714C Rev 4

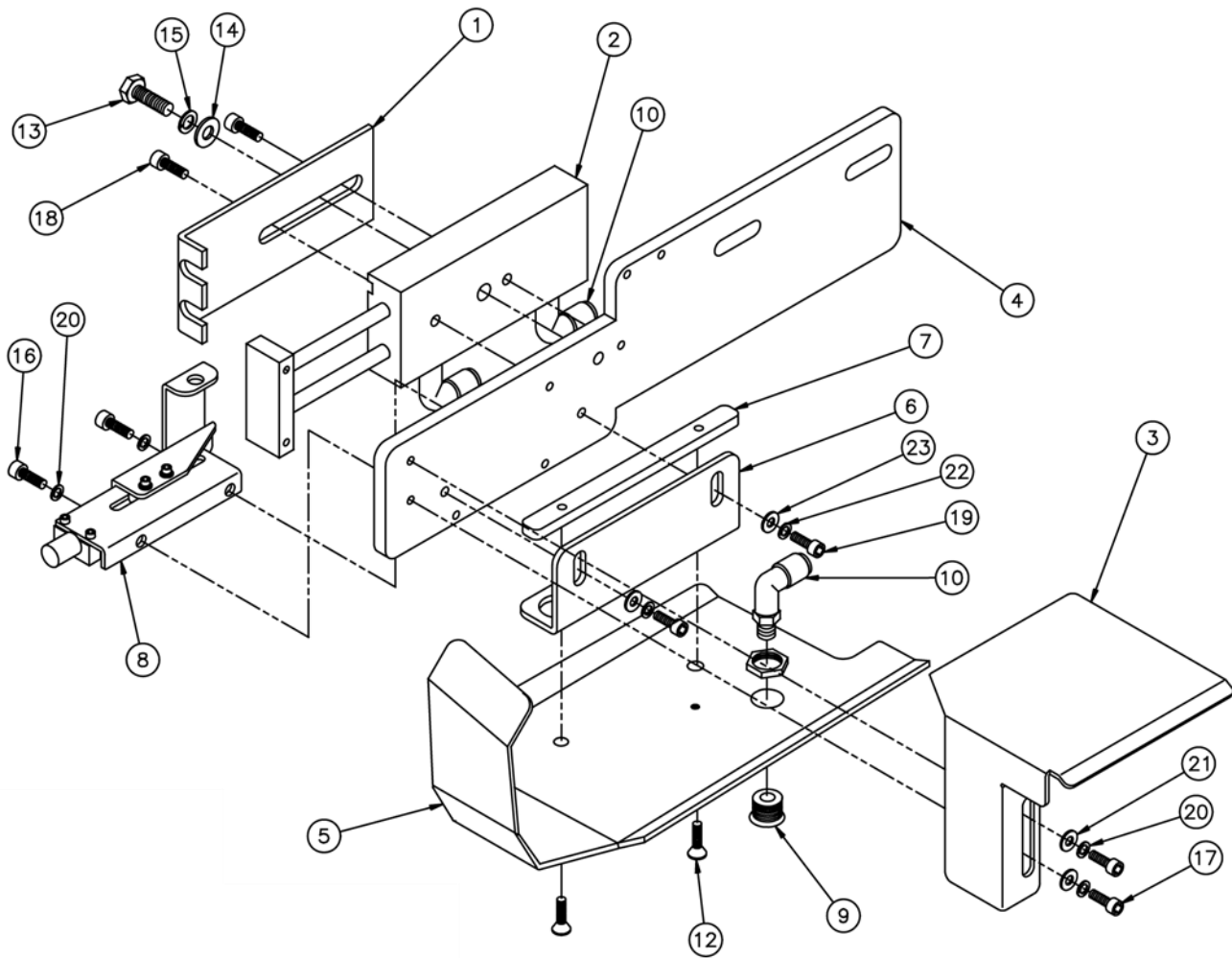
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-571d	Mount Plate	7	2	WWFS10	SAE Flat Washer
2	1	40-574A	Guide Wheel supp	8	2	SSFC90032	Scr, Fl Al Cp 8-32x1/2
3	1	40-597	Lwr Guide Wheel Pl	9	2	SSSC90024	Scr, So Cp 8-32x3/8
4	1	40-578A	Left Guide Ang Pl	10	2	SSSC98024	Scr, So Cp 10-32x3/8
5	1	40-579B	8-32 Nut Plate	11	2	WWL8	Lock Washer
6	2	WWL10	Lock Washer	12	2	WWF8	Flat Washer



## 40-660 Guide Tongue Assembly

AAC Drawing Number 191039A Rev 1

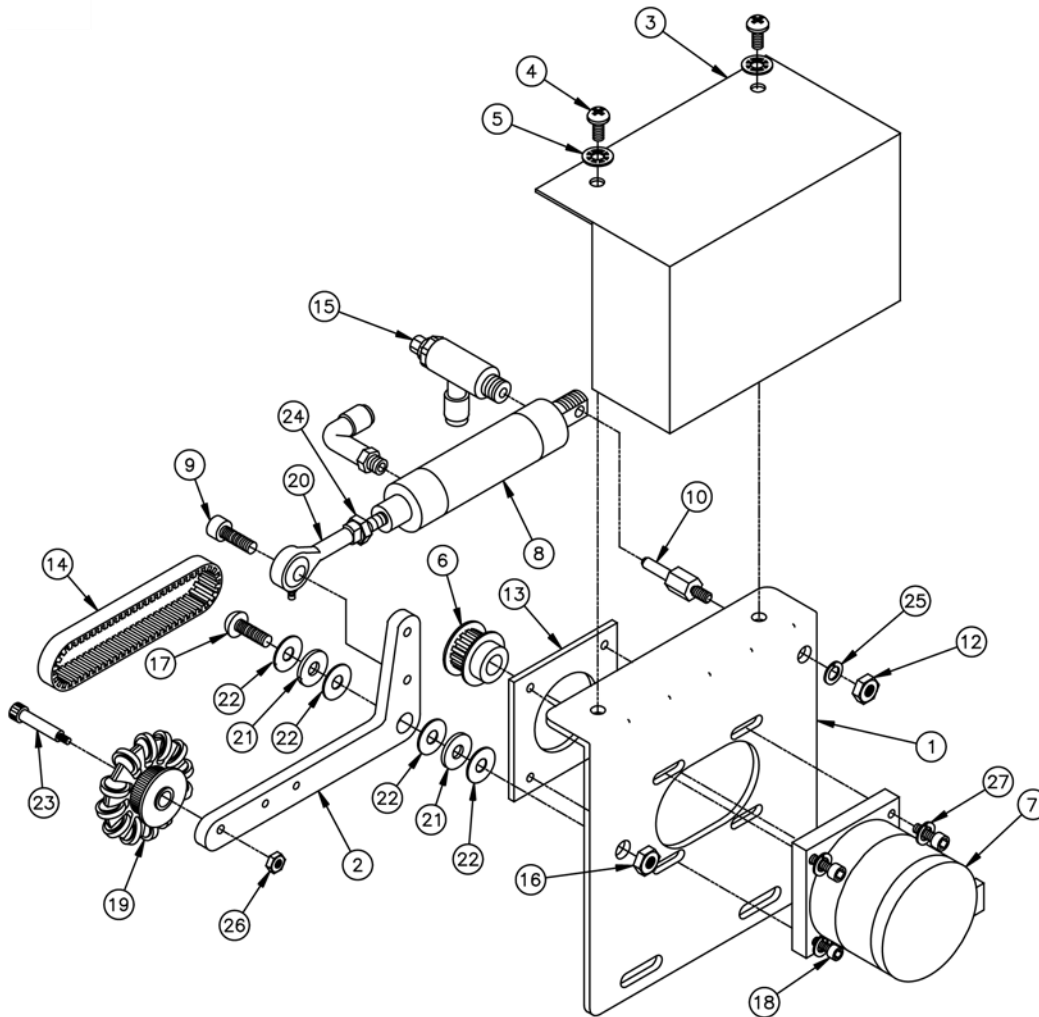
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	1278-7154A1/8	Tube Clamp	6	1	40-666	Top Scroll
2	1	1278-7154B	1/8 Tube Clamp	7	1	SSSC98032	Scr, So Cap 10-32x1/2
3	1	40-609B	Air Tube	8	1	SSSC01040	Scr, So Cp 1/4-20x5/8
4	1	40-661	Wire Guide	9	1	WWFS10	#10 Washer
5	1	40-662	Wire Mount	10	1	WWFS1/4	#1/4 Washer



### 40-570C Top Guide Sub-Assembly

AAC Drawing Number 191493C Rev 1

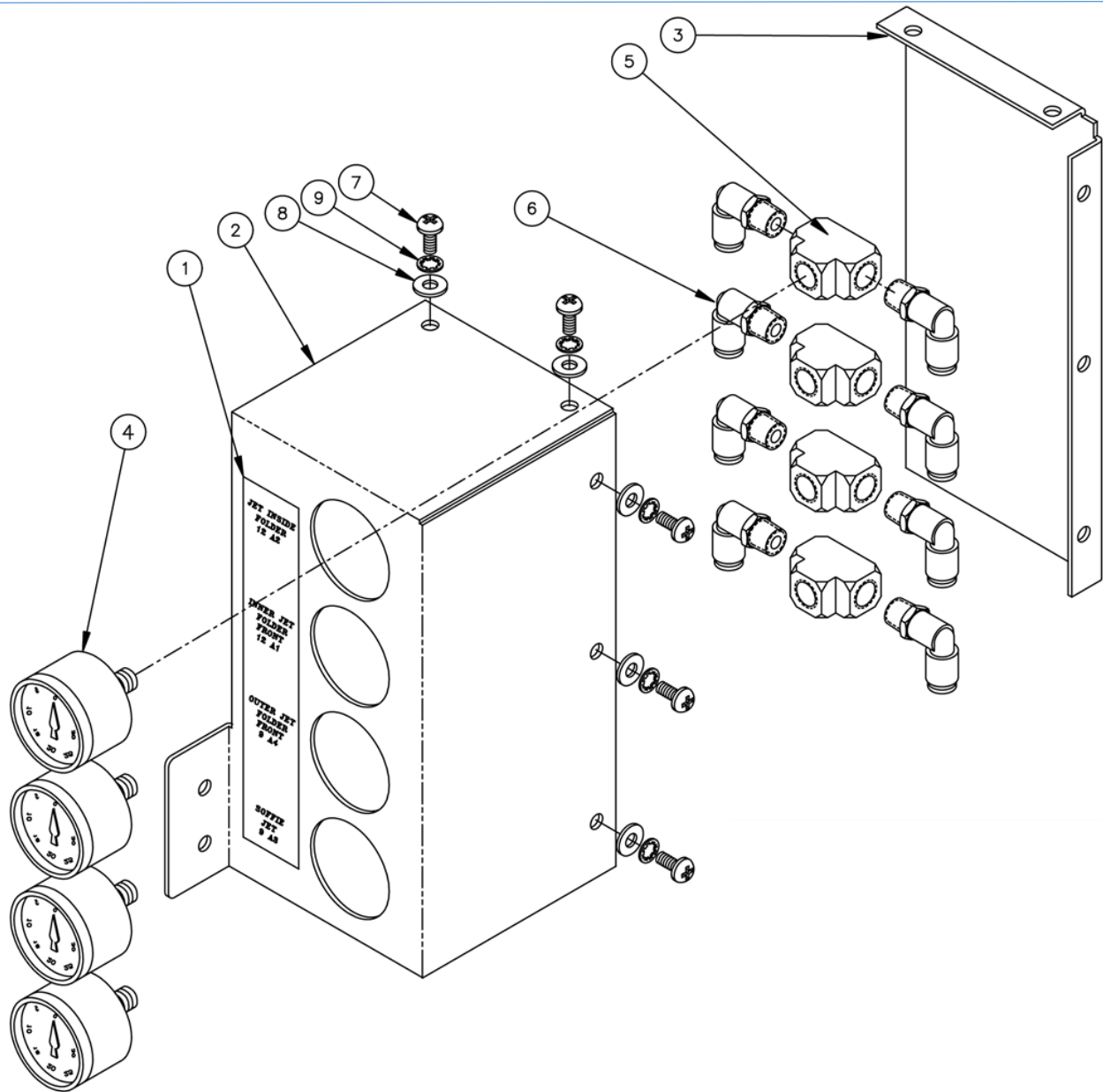
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	1278-7080A	Folder Cyl Stop	13	1	SSHC01080	Scr,Hx Cp 1/4-20x1-1/4
2	1	40-216A	Folder Cylinder	14	1	WWFS1/4	SAE Flat Washer
3	1	40-571C	Mount Plate	15	1	WWL1/4	Lock Washer
4	1	40-574A	Guide Wheel supp	16	2	SSSC90016	Scr,So Cp 8-32x1/4
5	1	40-577C	Lwr Guide Wheel Pl	17	2	SSSC90024	Scr,So Cp 8-32x3/8
6	1	40-578A	Left Guide Ang Pl	18	2	SSSC90048	Scr,So Cp 8-32x3/4
7	1	40-579B	8-32 Nut Plate	19	2	SSSC98024	Scr,So Cp 10-32x3/8
8	1	40-610	Eye Mount Subass	20	4	WWL8	Lock Washer
9	1	AAFJ11	Blower Hd & Nut	21	2	WWF8	Flat Washer
10	3	AAEME-5-10	Euick Male Elbow	22	2	WWL10	Lock Washer
11	.7'	AATSP1/4	Sprrioband Tub	23	2	WWFS10	SAE Flat Washer
12	2	SSFC90032	Scr,FI Al Cp 8-32x1/2				



## 40-600C Hem Guide Assembly

AAC Drawing Number 191447C Rev 5

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	1278-6526C	Top Guide Bracket	15	1	AAV1020G04	Mini Scr, On Reg.
2	1	1278-6524	Pivot Arm, Drive	16	1	NNJ1/4-20	Jam Nut
3	1	40-564A	Edge Guide Cover	17	1	SSBC01064	Scr,But Cp 1/4-20x1.0
4	2	SSP98024	Scr,Pn Hd Ph 10-32x3/8	18	4	SSSC98032	Scr,so Cp 10-32x1/2
5	2	WWSI10	No. 10 Int Tooth	19	1	40-630	Guide wheel Assy
6	1	PP40DF1808	Pulley	20	1	BBAW-3Z	Rod Bearing
7	1	AP-22E-104	Step Motor	21	2	BBNTA411	Thrust Bearing
8	1	1975-213	Cylinder	22	2	BBTRA411	Thrust Bearing, Steel
9	1	SSSC95040	Scr,so cp 10-24x5/8	23	1	SSAS016064	Scr,al Sh 1/4x1
10	1	0411-1853D	Stud, Cyl Mount	24	1	NNH10-32	hex Nut
11	1	AAEME-5-10	Euick Male Elbow	25	1	WWL5/16	Lock Washer
12	1	NNH5/16-18	Hex Nut	26	1	Nnh10-24	Hex Nut
13	1	1278-6690	Nut Plate	27	4	WWL10	Lock Washer
14	1	GG6R195018	Belt				



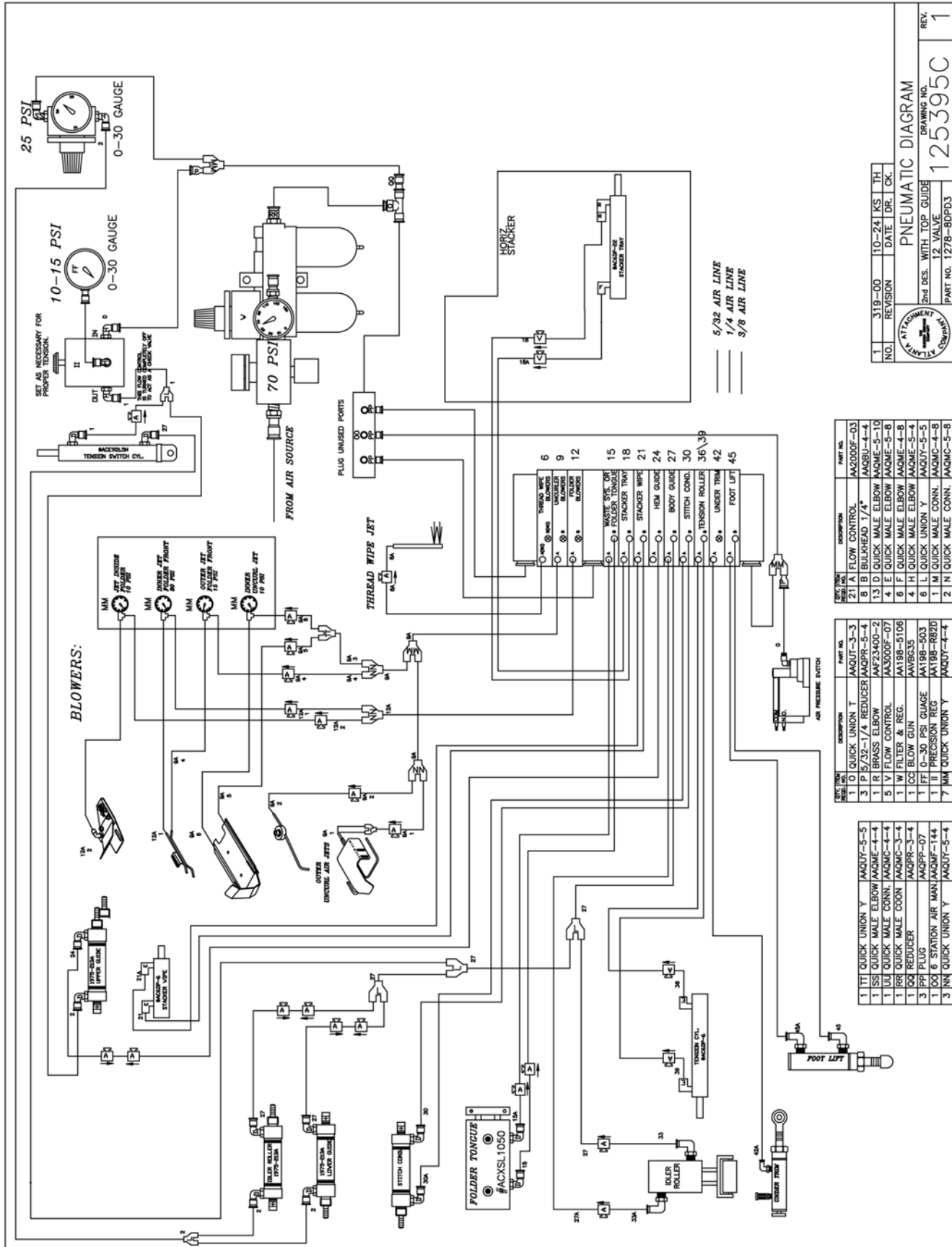
## 40-620 Blower Gauge Assembly

AAC Drawing Number 191044B Rev 1

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	12788-LAB4	Label, Sheet	6	8	AAEME-5-8	Quick Male Elbow
2	1	40-591	Brkt, Blower Ga	7	5	SSPP98024	Scr,Pn Hd Ph 10-32x3/8
3	1	40-621	Back, Blower Ga	8	5	WWFS10	Washer, Flat SAE
4	4	AA198-5033	Gauge, Flush Mnt	9	5	WWSI10	Washer, Int Star
5	3	AAF10289	Tee, Brass				



# 1278-8DPD3 Pneumatic Diagram W/Top Valve



NO.	REVISION	DATE	DR.	TH.
1	319-00	10-24	KS	TH

PNEUMATIC DIAGRAM  
 2nd DES. WITH TOP GUIDE  
 12 VALVE  
 PART NO. 1278-8DPD3

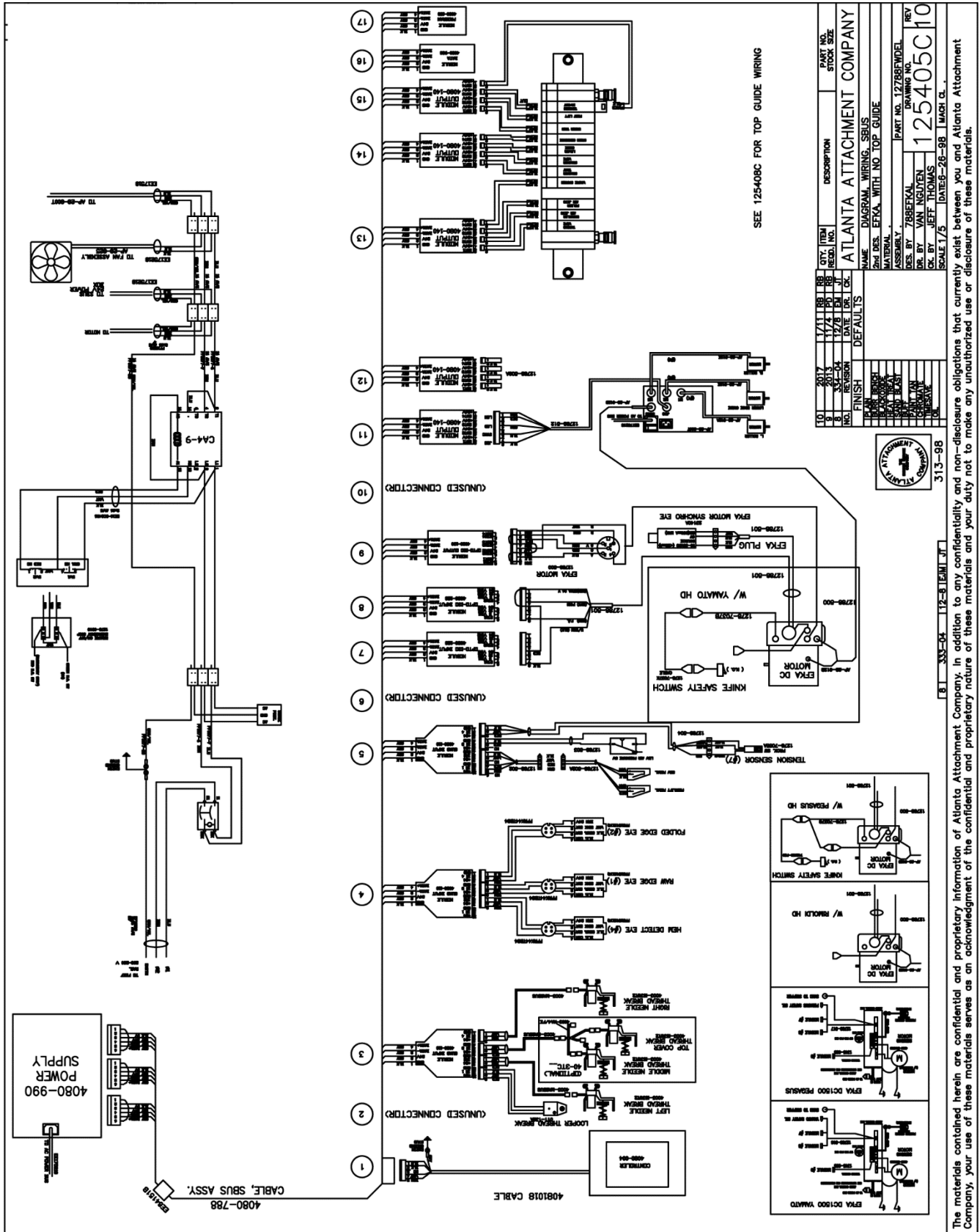
DRAWING NO. 125395C  
 REV. 1

QTY	ITEM	DESCRIPTION	PART NO.
1	0	QUICK UNION T	AAQU-3-3
3	P	5/32-1/4 REDUCER	AAQR-5-4
1	R	BRASS ELBOW	AAE23400-2
5	V	FLOW CONTROL	AA3000F-07
1	W	FILTER & REG.	AA198-5106
1	QQ	BLOW GUN	AAVBG35
1	FF	0-30 PSI GAUGE	AA198-503
1	II	PRECISION REG	AA198-RB2D
7	MM	QUICK UNION Y	AAQUY-4-4

QTY	ITEM	DESCRIPTION	PART NO.
21	A	FLOW CONTROL	AA2000F-03
8	B	BULKHEAD 1/4"	AAQBH-4-4
13	D	QUICK MALE ELBOW	AAQME-5-10
4	F	QUICK MALE ELBOW	AAQME-5-8
6	F	QUICK MALE ELBOW	AAQME-4-8
4	H	QUICK UNION Y	AAQUY-5-4
1	M	QUICK MALE CONN.	AAQMC-4-8
2	N	QUICK MALE CONN.	AAQMC-5-8

QTY	ITEM	DESCRIPTION	PART NO.
1	TT	QUICK UNION Y	AAQUY-5-5
1	SS	QUICK MALE ELBOW	AAQME-4-4
1	LU	QUICK MALE CONN.	AAQMC-4-4
1	RR	QUICK MALE CONN.	AAQMC-3-4
1	QQ	REDUCER	AAQRP-3-4
3	PP	PLUG	AAQPP-07
1	OO	6 STATION AIR MAN.	AAQMF-144
3	NN	QUICK UNION Y	AAQUY-5-4

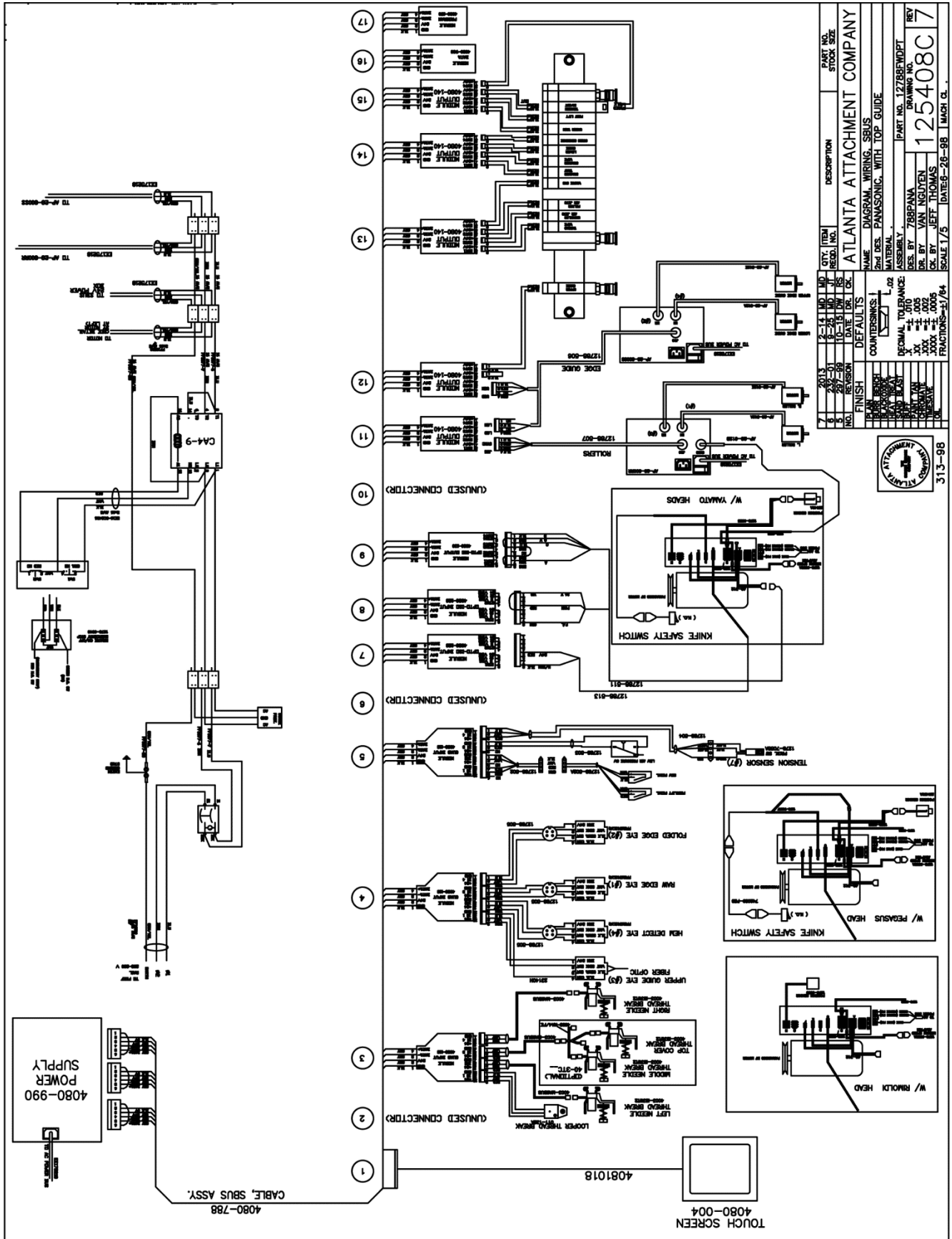
# 12788FWDEL Wiring Diagram, Efka No Top Guide



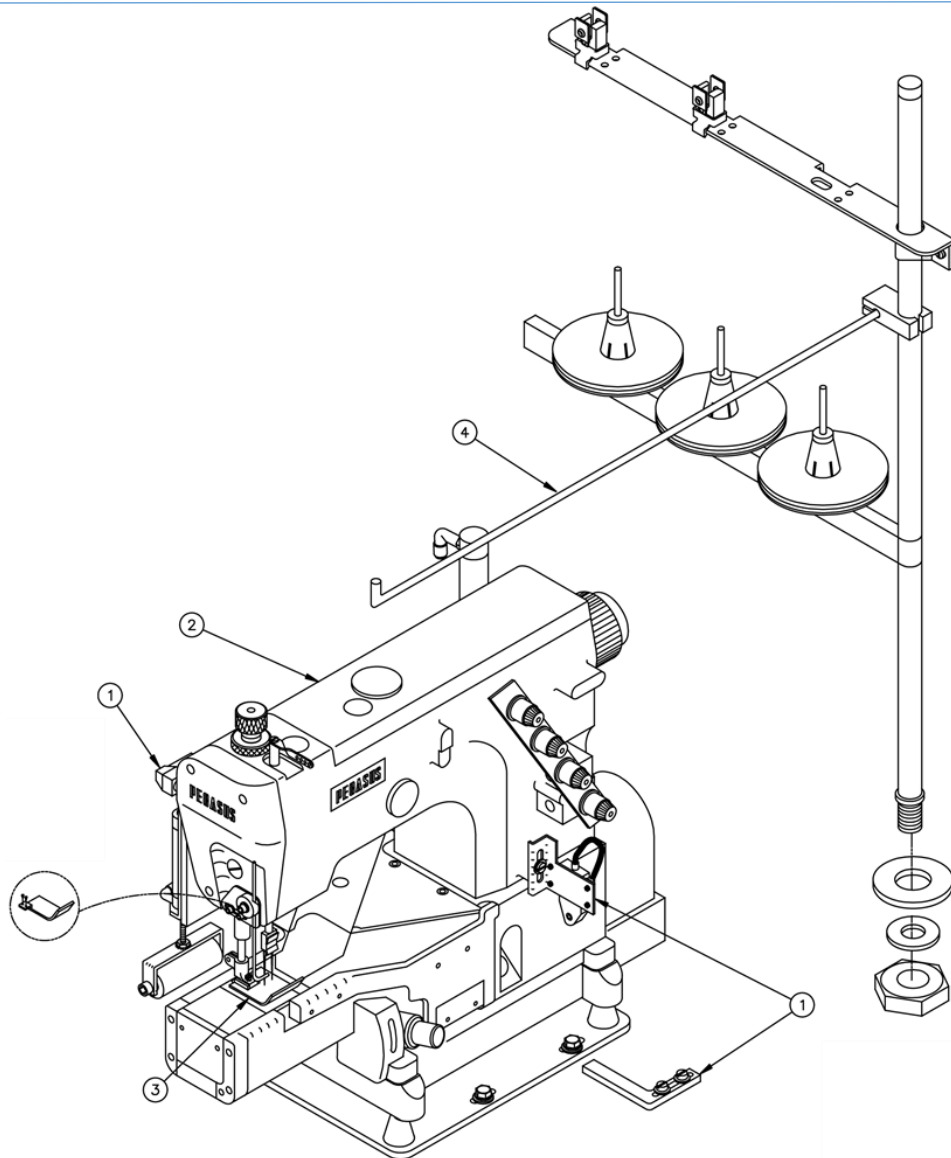




# 12788FWDPT Wiring Diagram, Panasonic, Top Guide



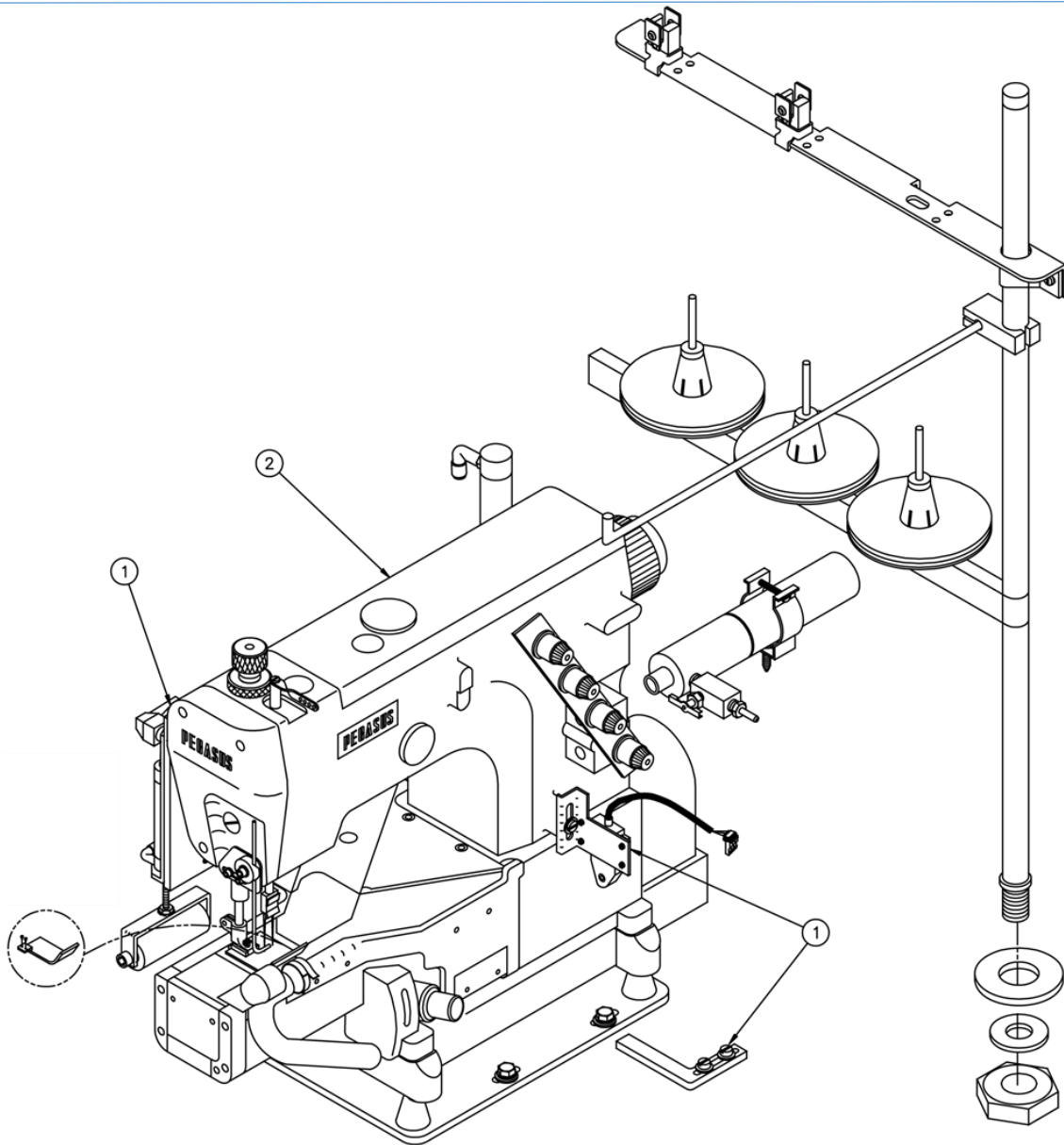
## Sewing Head Details for 112788F



## 1278-820FX Sewing Head Parts, SBUS NO LHK

AAC Drawing Number 191972C Rev.3

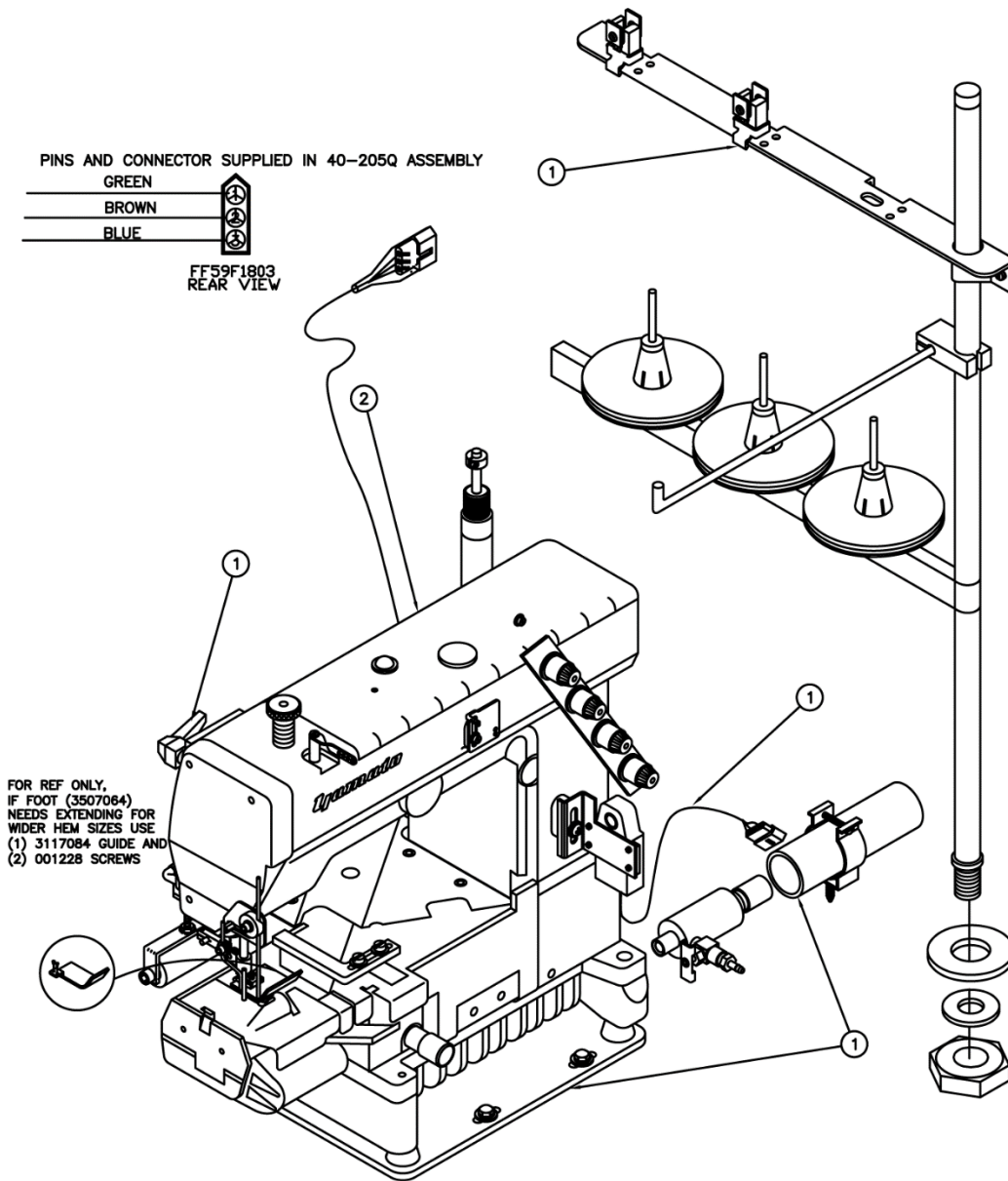
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-205DS	Sew Hd & Pts	3	0	257015B48M1	Needle PI Pegasus4.8mm
	1	40-205S	For Pegasus 664-08 5.6mm				For 1278-820FK
2	1	S&WG66408D	Pegasus 664-08 4.8mm		0	257018B56M1	Needle PI Pegasus5.6mm
			For 1278-820FK				For 1278-820FL
	1	S&WG66408E	Pegasus 664-08 5.6mm		0	257017B64M1	Needle PI Pegasus6.4mm
			For 1278-820FL				For 1278-820FM
	1	S&WG66408F	Pegasus 664-08 6.4mm	4	1	1278-8201	Rod, Thread Guide
			For 1278-820FM				



## 1278-820X Sewing Head Parts, SBUS

AAC Drawing Number 191941C Rev.1

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-205JS	Sew Hd & Pts				For 1278-820FH
2	1	SW&G66435A	Sewing Head 4.8 GA	1	1	SW&G66435C	Sewing Head 6.4 GA
			For 1278-820FG				For 1278-820FJ
	1	SW&G66435B	Sewing Head 5.6 GA	3	1	1278-8201	Rod, Thread Guide



## 1278-820XX Sewing Head and Parts

AAC Drawing Number 192053C Rev.3

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	1	40-250Q	HEAD PARTS SBUS		1	SYAM-3711B	SEWING HEAD 6.4mm GA
2	1	SYAM-3711A	SEWING HEAD 4.8mm GA for 1278-820FA				for 1278-820FC
				3	1	1278-8201	ROD. THREAD GUIDE
	1	SYAM-3711	SEWING HEAD 5.6mm GA for 12787-820FB				

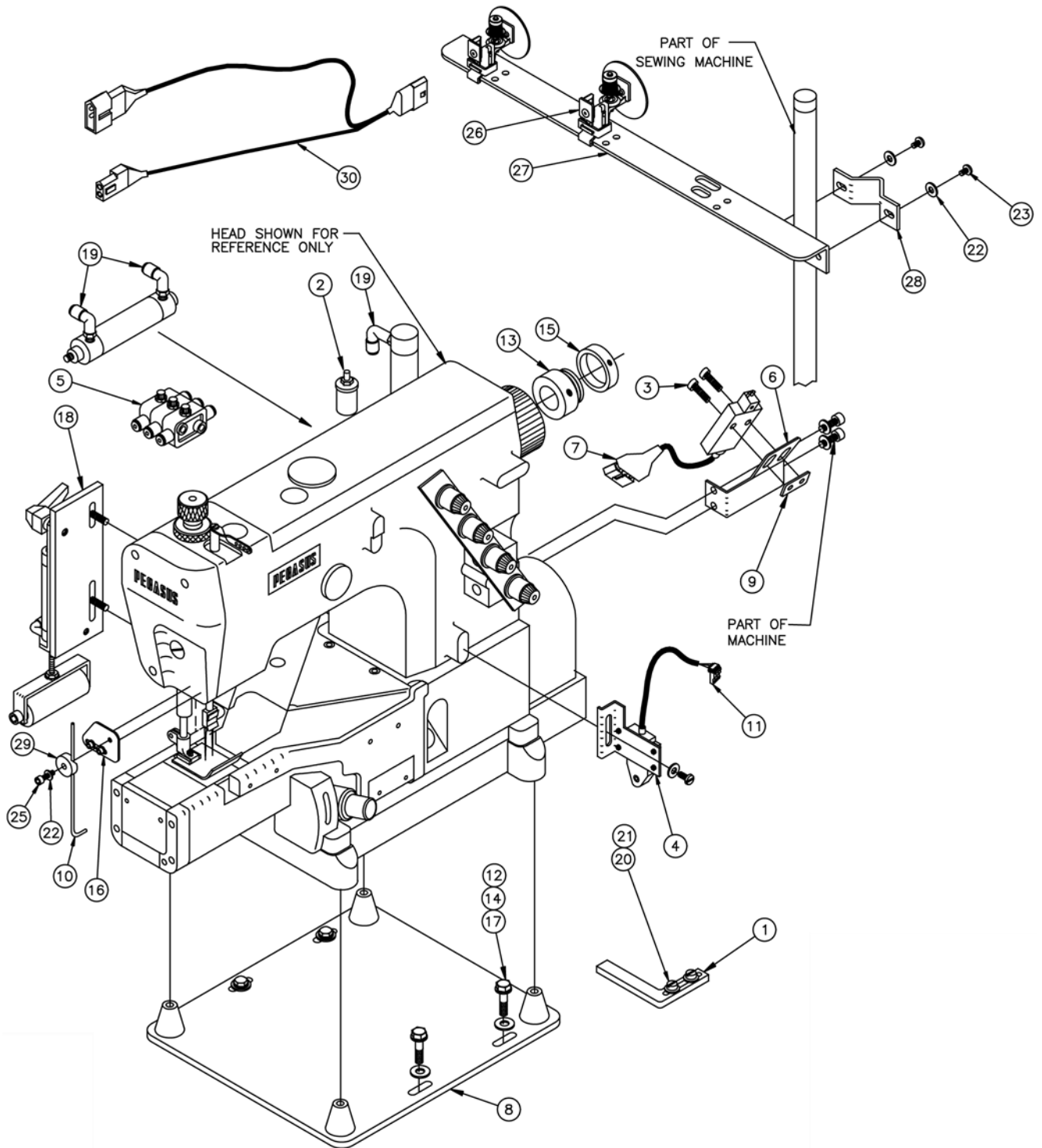
## Optional Items

### 40-4D No Top Guide Assembly

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-570D	Guide Plate Assy	6	AR	12788FWDEL	Wiring Diagram, Efka
2	1	40-660	Guide Tongue Assy	7	AR	12788FWDPL	Wiring Diagram, Pana
3	1	AP-28-800T	Control Box	8	1	AP-28-512A	Step Motor Cable
4	1	EE37F3311	Cee Power Cord	9	2	28-512E	Step Motor Cable
5	AR	1278-8DPD2	Pneumatic Diagram	10	1	12788-512	Dual Jog / Single Cable

### 40-4C Top Guide Assembly

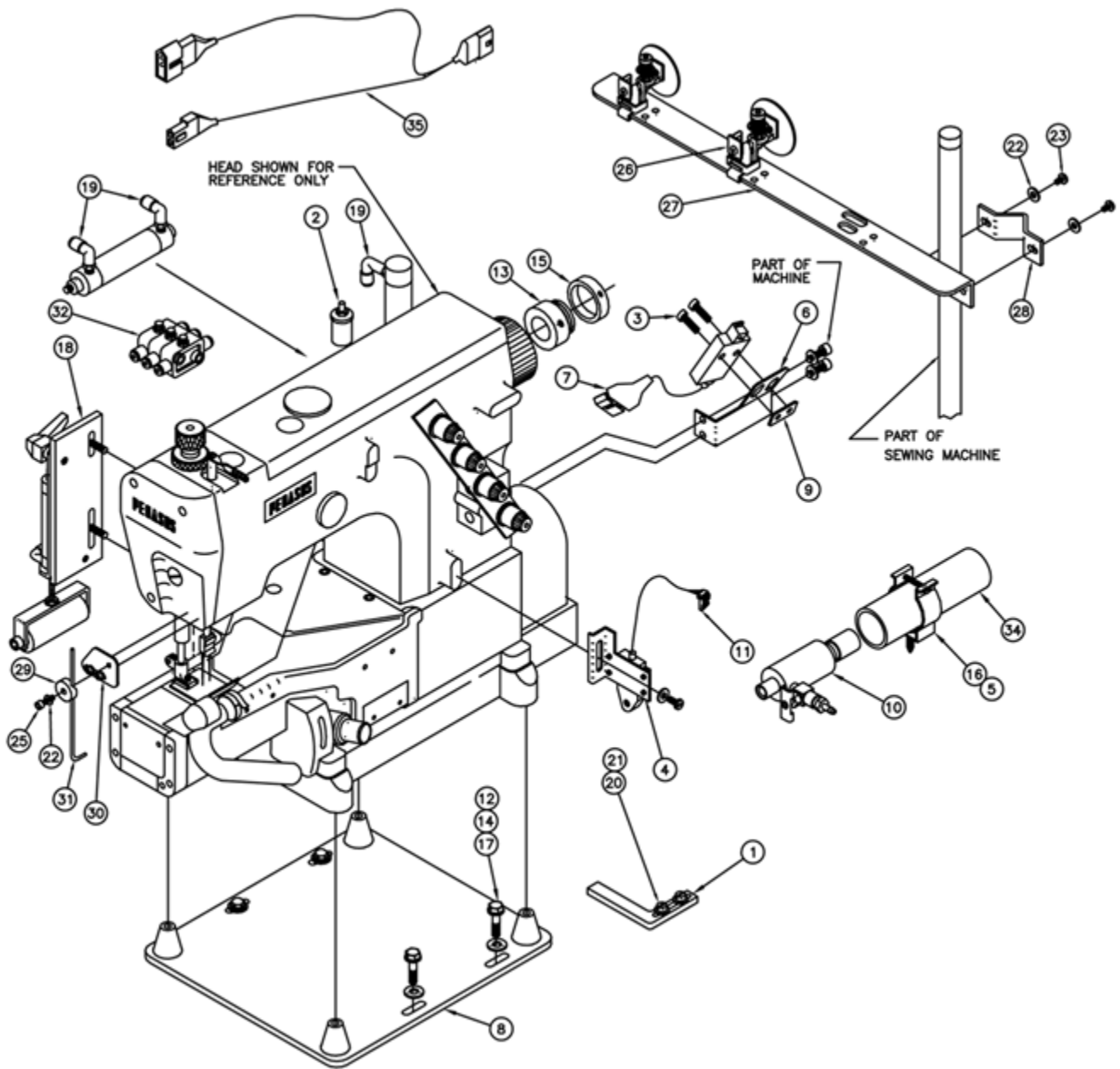
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-570C	Guide Plate Assy	15	2	SSPS70048	Scr,Pn Hd Sl 4.40x3/4
2	1	40-600C	Hem Guide Assy	16	2	SSZH#10032	Scr,Sh Me Hx #10x1/2
3	1	AP-28-800RR	Control Box	17	1	40-620	Blower Gauge
4	1	AP-28-800SS	Control Box	18	2	WWFS10	SAE Flat Washer
5	1	40-606B	Wire, Downturn	19	2	SSBC98024	Scr,But Cp 10-32x3/8
6	1	40-609B	Tube, Uncurling Air	20	2	WWSI10	Int Star Washer
7	3	1278-7154A	Clamp, 1/8 Tube	21	2	WWL1/4	Lock Washer
8	2	WWL10	Lock Washer	22	2	WWFS1/4	Flat Washer
9	1	SSSC95048	Scr,So Cp 10-24x3/4	23	2	SSHC01032	Scr,Hx Cp 1/4-20x1/2
10	1	SSSC95032	Scr,So Cp 10-24x1/2	24	2	AP-28-512A	Step Motor Cable
11	1	1278-6689	Table Eye Mount	25	2	AP-28-512E	Step Motor Cable
12	1	1975-412A	Nut Plate	26	2	12788-506	Cable,Guides,Dir & Mtr
13	1	23140H	Elec Eye W/Plug	27	1	12788-507	Cable,Rlr,Jog & Sync
14	1	FFPBT46U	Fiber Optic Cable				



## 40-205DS Sewing Head Parts, SBUS

AAC Drawing Number 191971C Rev 3

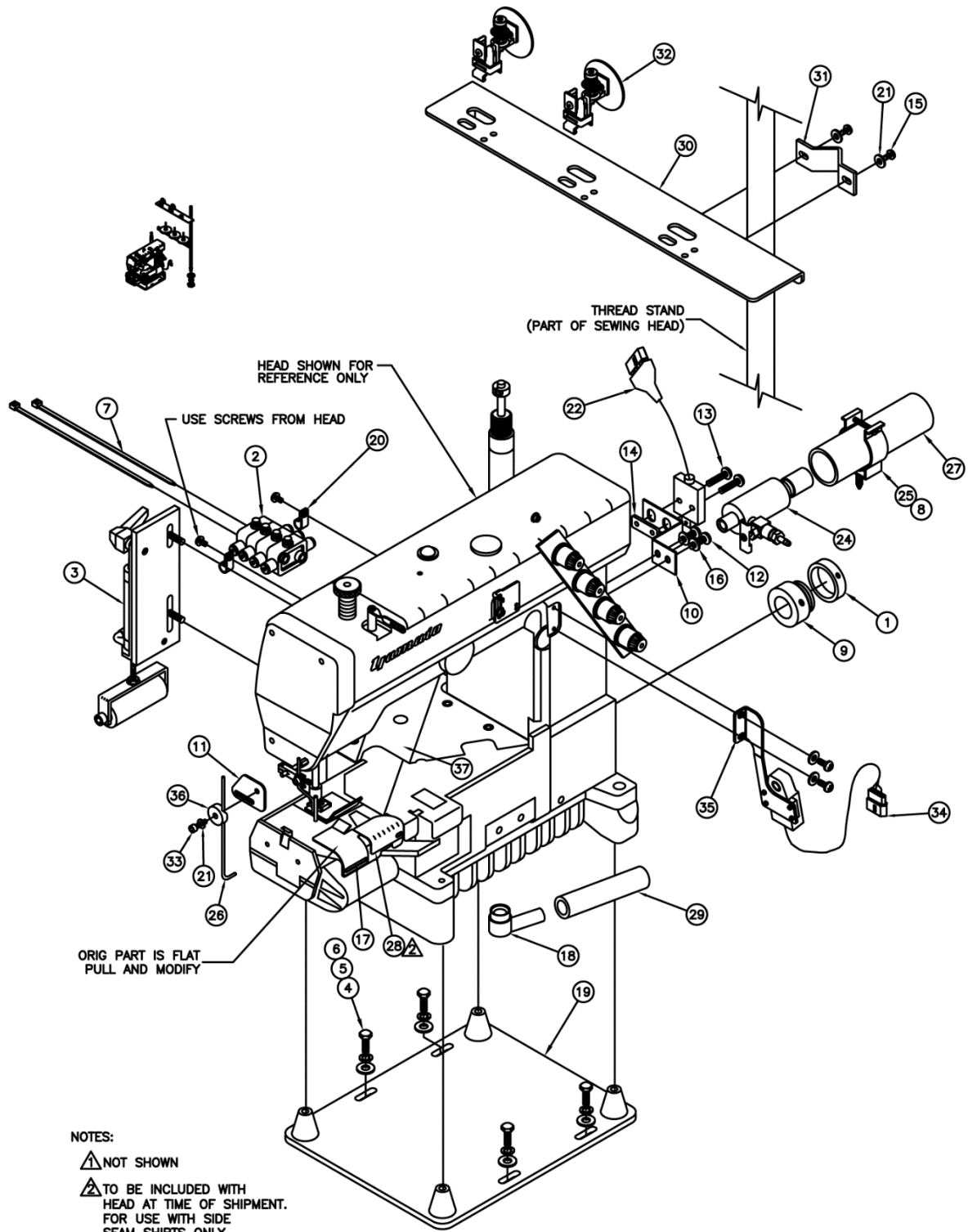
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	12789-2021A	Edge Guide . Foot	16	1	40-272	Blower Mount, Foot
2	1	AAE240F-04	Muffler	17	4	SSHC01112	Scr,Hx Cp 1/420x1-3/4
3	2	SSPS70048	Scr,Pn Hd SI 440x3/4	18	1	1278-8300A	Idler Roller Assy
4	1	40-233B	Brkt, Thrd Stop	19	3	AAEME-M4-8	Quick Male Elbow
5	3	AA2000F-03	In Line Flow Control	20	2	SSCM4H16	Scr,Ch Hd M4x16mm
6	1	311-120	Sensor Mount	21	2	WWF8	Flat Washer
7	1	23140A	Electric Eye	22	3	WWFS10	SAE Flat Washer
8	1	40-201A	Head Plate	23	2	SSPS98040	Scr,Pn Hd SI 10-32x5/8
9	1	1975-412A	Nut Plate	24	1	4003-MASBUS	Cable
10	1	40-271A	Tube, Foot Blower	25	1	SSSC98032	Scr,So Cp 10-32x1/2
11	1	011-132A	Thread Stop W/Plug	26	2	4003-IS3WT2C	Sensor
12	4	WWFS1/4	SAE Flat Washer	27	1	0411-069C	Brkt, Thread Break
13	1	311-128	Tape Mounting	28	1	0411-070	Clamp, Sensor Brkt
14	4	WWL1/4	Lock Washer	29	1	1278-7154A	Clamp, 1/8 Tube
15	1	311-129	Tape Mounting	30	1	1278-7037F	Cable, Safety Switch



## 40-205JS Sewing Head Parts, SBUS

AAC Drawing Number 191940C Rev 7

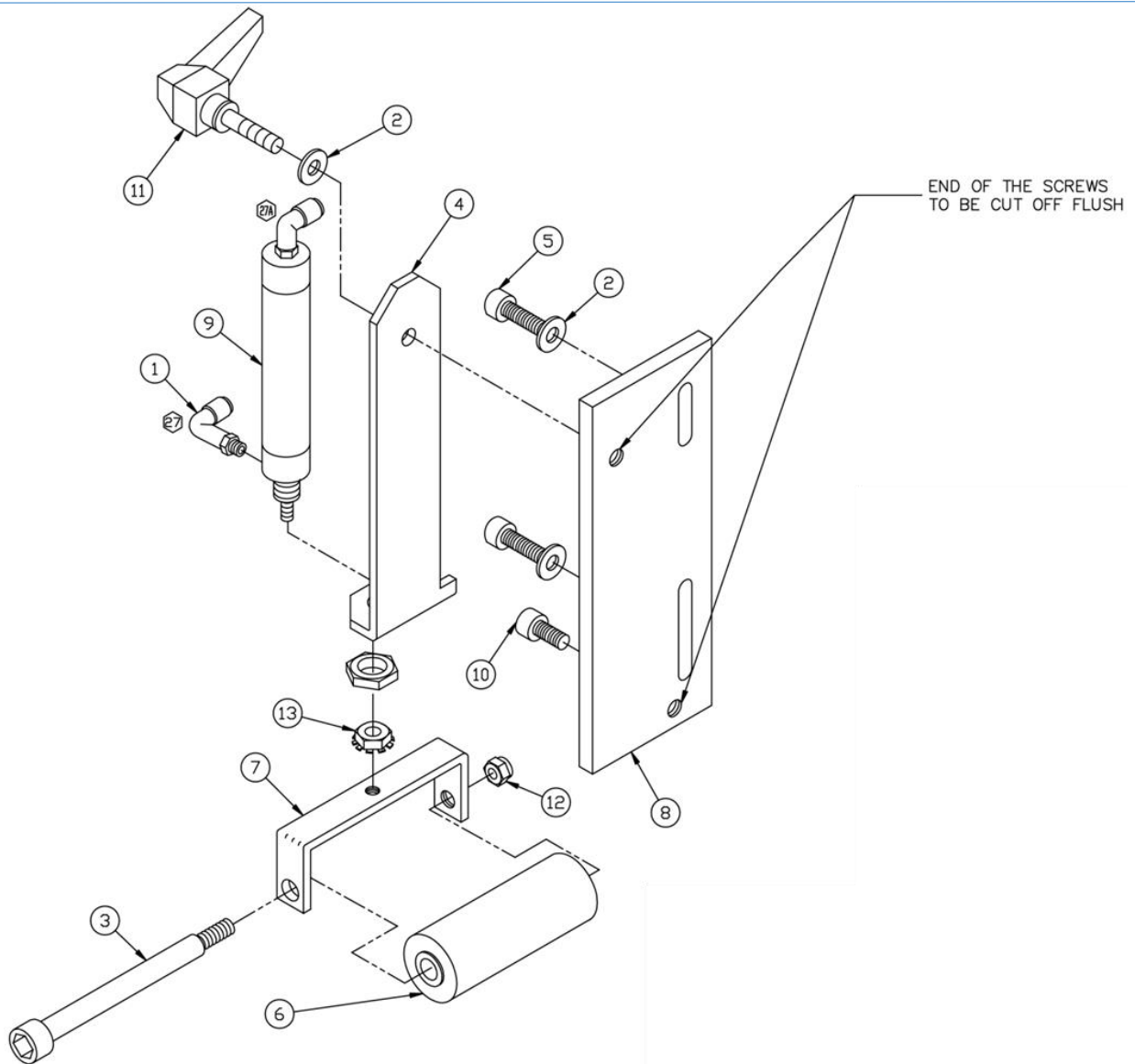
NO	QTY	PART #	DESCRIPTION
1	1	12789-2021A	EDGE GUIDE AT FOOT
2	1	AAQ240F-04	MUFFLER, QU EXH
3	2	SSPS70048	SCREW, PAN HD SLOTTED 4-40 X 3/4
4	1	40-233C	BRACKET, THRD STOP
5	1	SSZH#10064	SCREW, HEX CAP #10 X 1 (SHEET METAL)
6	1	1278-6689B	SENSOR MOUNT
7	1	23140A	ELECTRIC EYE
8	1	40-201A	HEAD PLATE
9	1	1975-412A	NUT PLATE
10	1	AAV244	VENTURI, SMALL, TEMPLEX
11	1	011-132A	THREAD STOP W/PLUG
12	4	WWFS1/4	1/4 SAE FLAT WASHER
13	1	311-128	TAPE MOUNTING
14	4	WWL1/4	1/4 LOCK WASHER
15	1	311-129	TAPE MOUNTING
16	1	MM16300	TUBE CLAMP
17	4	SSHC01112	SCREW, HEX CAP 1/4-20 X 1-3/4
18	1	1278-8300A	IDLER ROLLER ASSY
19	3	AAQME-M4-8	QUICK MALE EL.
20	2	SSCM4X16	SCREW, CHEESE HEAD M4 X 16mm
21	2	WWF8	WASHER, FLAT
22	3	WWFS10	SAE FLAT WASHER
23	2	SSPS98040	SCREW, PAN HD SLOTTED 10-32 X 5/8
24	2	4003-MASBUS	CABLE, THREAD BRK TO SBUS
25	1	SSSC98032	SCREW, SOCKET CAP 10-32 X 1/2
26	2	4003-IS3WT2C	SENSOR
27	1	0411-069C	BRACKET, THREAD BREAK
28	1	0411-070	CLAMP, SENSOR BRACKET
29	1	1278-7154A	CLAMP, 1/8 TUBE
30	1	40-272	BLOWER MOUNT, FOOT
31	1	40-271A	TUBE, FOOT BLOWER
32	3	AA2000F-03	IN-LINE FLOW CONTROL
33	AR	4003-ISINST	INSTRUCTION, THREAD SENSOR
34	5in.	AATP1.5	TUBE, CLEAR, 1.5OD, 1.25ID
35	1	1278-7037F	CABLE, U/T SAFETY SWITCH
36	10	SN128GAS75	NEEDLES, SEWING 3651-05-MR3, (#11), BX/100



**40-205Q Sewing Head Parts Yamato 3711 W/LHK**

AAC Drawing Number 192052C Rev 8

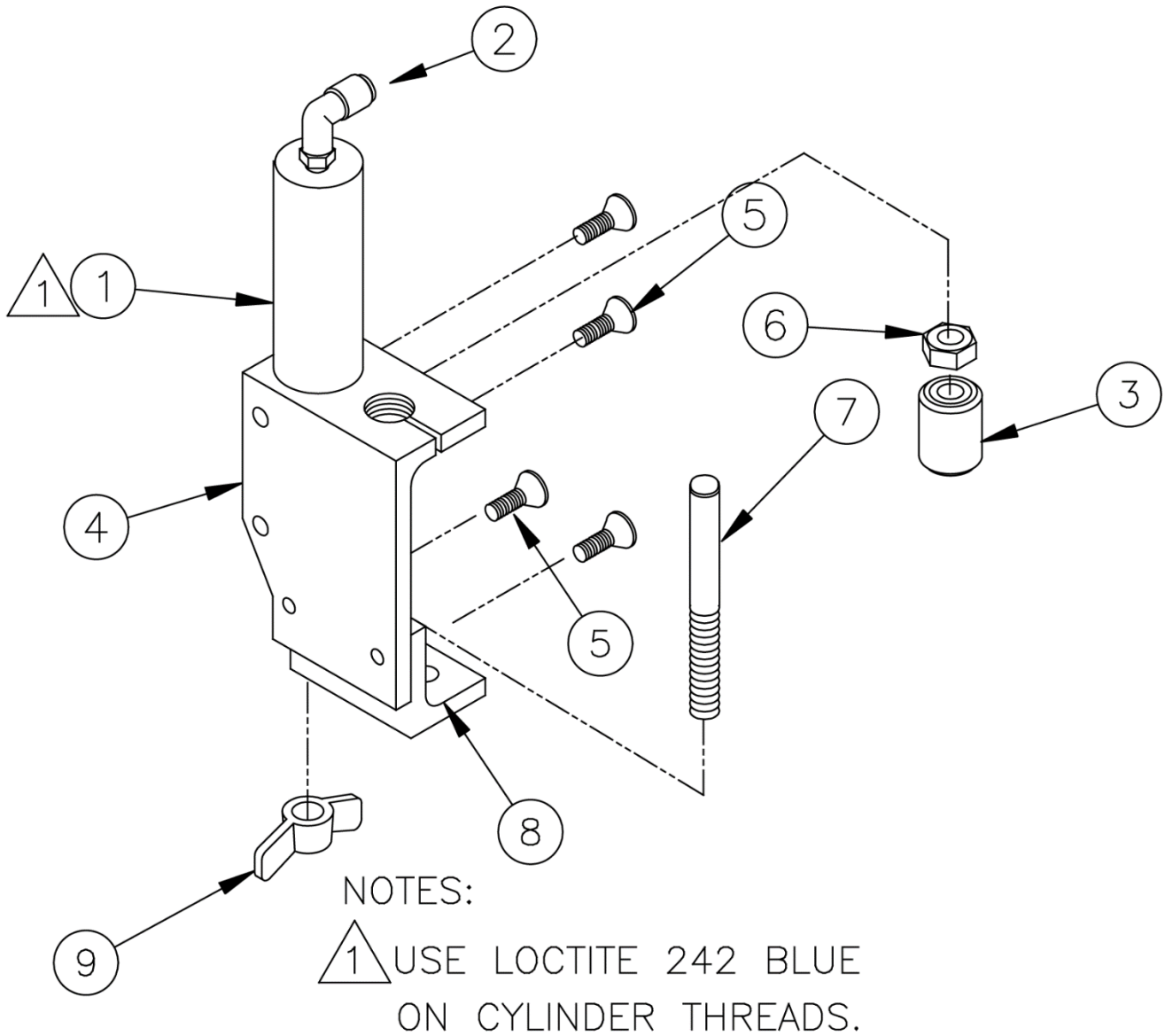
NO	QTY	PART #	DESCRIPTION
1	1	311-129	TAPE MOUNT
2	4	AA2000F-03	IN LINE FLO CONT
3	1	1278-8300A	IDLER ROLLER ASSY
4	4	SSHCO1112	SCREW, HEX CAP 1/4-20 x 1-3/4
5	4	WWL1/4	LOCK WASHER
6	4	WWFS1/4	SAE FLAT WASHER
7	2	EE6X752	CABLE TIE, 5-3/4
8	1	SSZH#10064	SCREW HEX CAP #10X1 (SHEET METAL)
9	1	311-128	TAPE, MOUNTING
10	1	40-230	EYE BRACKET
11	1	40-272	BLOWER MOUNT, FOOT
12	2	SSPSM4X8	SCREW, PAN HD SLOTTED M4 X 0.7 X 8MM
13	2	SSPS70048	SCREW, PAN HD SLOTTED 4-40 X 3/4
14	1	1975-412A	NUT PLATE
15	2	SSPS98040	SCREW, PAN HD SLOTTED 10-32 X 5/8
16	2	WWB10S	BRASS WASHER
17	1	40-274	GUARD, HEMMER
18	1	40-277	ADAPTOR ASSY
19	1	40-201	HEAD PLATE
20	2	AAF3/16	BLK PLASTIC CLAMP
21	3	WWFS10	SAE FLAT WASHER
22	1	23140A	ELECTRIC EYE
23	2	4003-MASBUS	CABLE, 8 FT
24	1	AAV244	VENTURI, SMALL, TEMPLEX
25	1	MM16300	TUBE CLAMP
26	1	40-271A	TUBE, FOOT BLOWER
27	5"	AATP1.5	TUBE, CLEAR, 1.5OD, 1.25ID
28	1	40-276	MATERIAL GUIDE
29	3'	MM163VT-20	TUBING, PLASTIC, CLEAR
30	1	0411-069C	BRACKET, THREAD BREAK
31	1	0411-070	CLAMP, SENSOR BRACKET
32	2	4003-IS3WT2C	SENSOR
33	1	SSSC98032	SCREW, SOCKET CAP 10-32 X 1/2
34	1	011-132A	THREAD STOP W/PLUG
35	1	40-275	MOUNT, LOOPER THREAD DET
36	1	1278-7154A	CLAMP, 1/8 TUBE
37	1	40-280	COVER, LOOPER
38	3	FF31F1022	PIN, MALE, MOLEX
39	1	FF59F1803	CONN., 3 PIN MALE



## 1278-8300A Idler Roller Assembly

AAC Drawing Number 191035B Rev 1

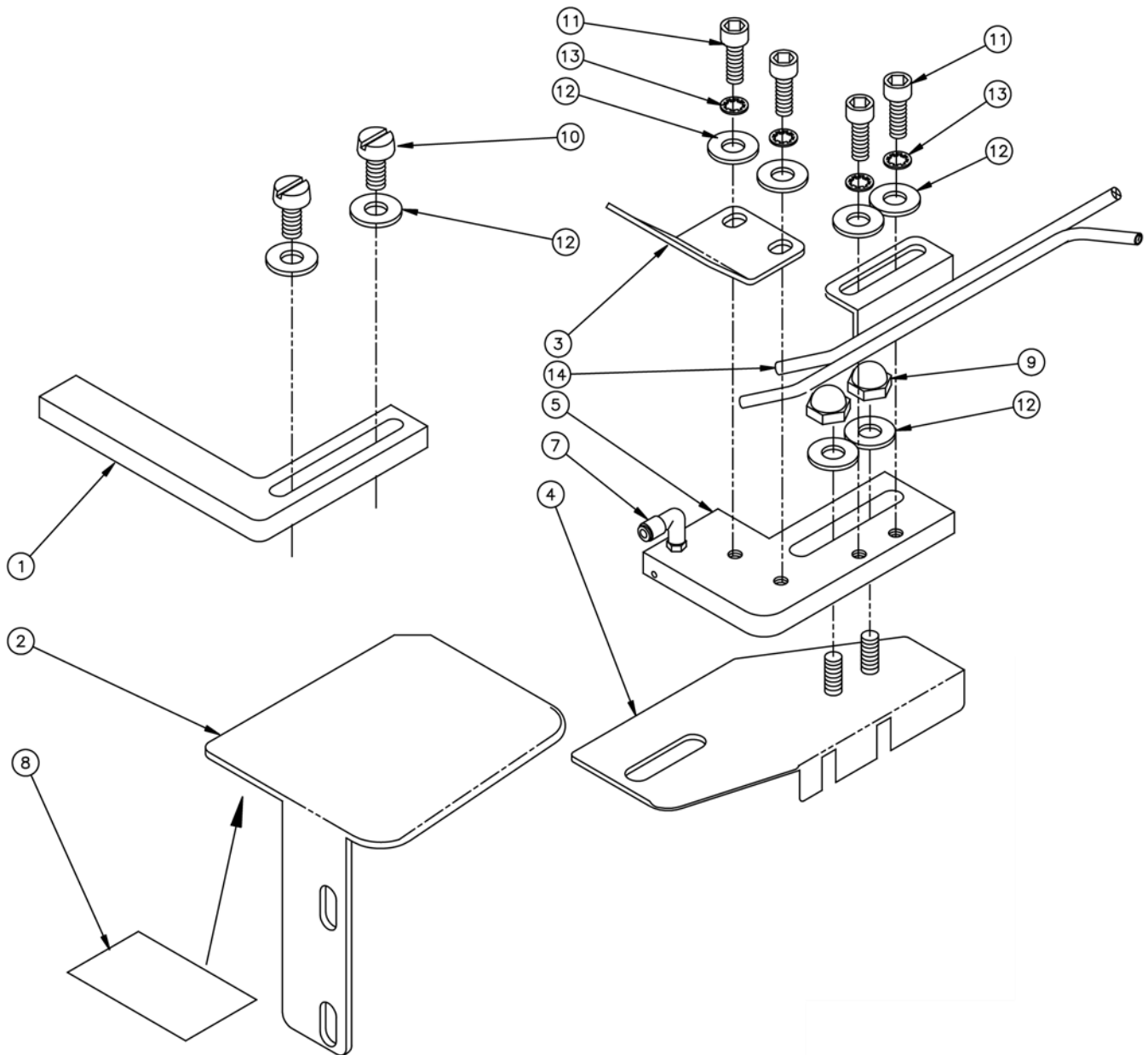
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	AAEME-5-10	Quick Male Elbow	8	1	1278-8303A	Cyl Brkt
2	3	WWFS1/4	Washer	9	1	AACNR021.5D	Air Cylinder
3	1	SSAS020192	Scr,al Sh 5/16x3,1/4-20	10	1	SSSC01024	Scr,so Cp 1/4-20x3/8
4	1	1278-8305A	Brkt, Cyl Pivot	11	1	TTH32415	Threaded Handles
5	2	SSSCM6H16	Scr,So Cp M6x16	12	1	NNE1/4-20	Elastic Nut
6	1	1278-8301A	Plastic Roller	13	1	NNK10-32	Kep Nut
7	1	1278-8302B	Roller Yoke				



## 1278-8400 Foot lift Sub-Assembly

AAC Drawing Number 191008A Rev 1

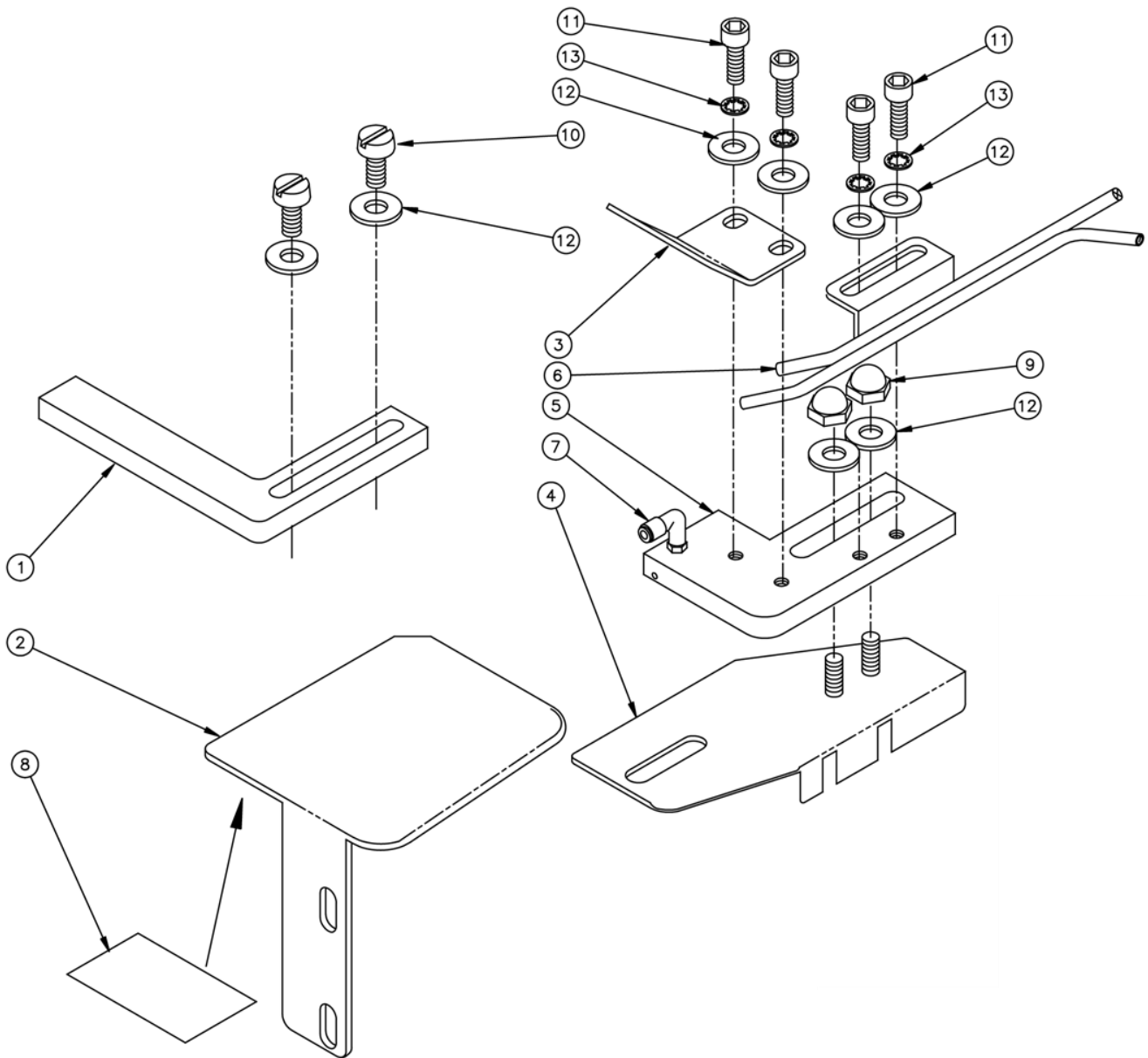
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	AAC6S-1-H	Cylinder	6	1	NNJ5/16-24	Jam Nut
2	1	AAEME-5-8	Quick Male Elbow	7	1	SSSC35192M	Scr, Post 3/8-24x3.0
3	1	11200A	Bumper	8	1	010-075B	Mount Footlift Limit
4	1	010-074B	Mount Lift Cylinder	9	1	NNW3/8-24	Wing Nut
5	4	SSFC01032	Scr, Ft Al Cp 10-32x1/2				



### 40-266B Folder Sub-Assembly

AAC Drawing Number 191477C Rev 1

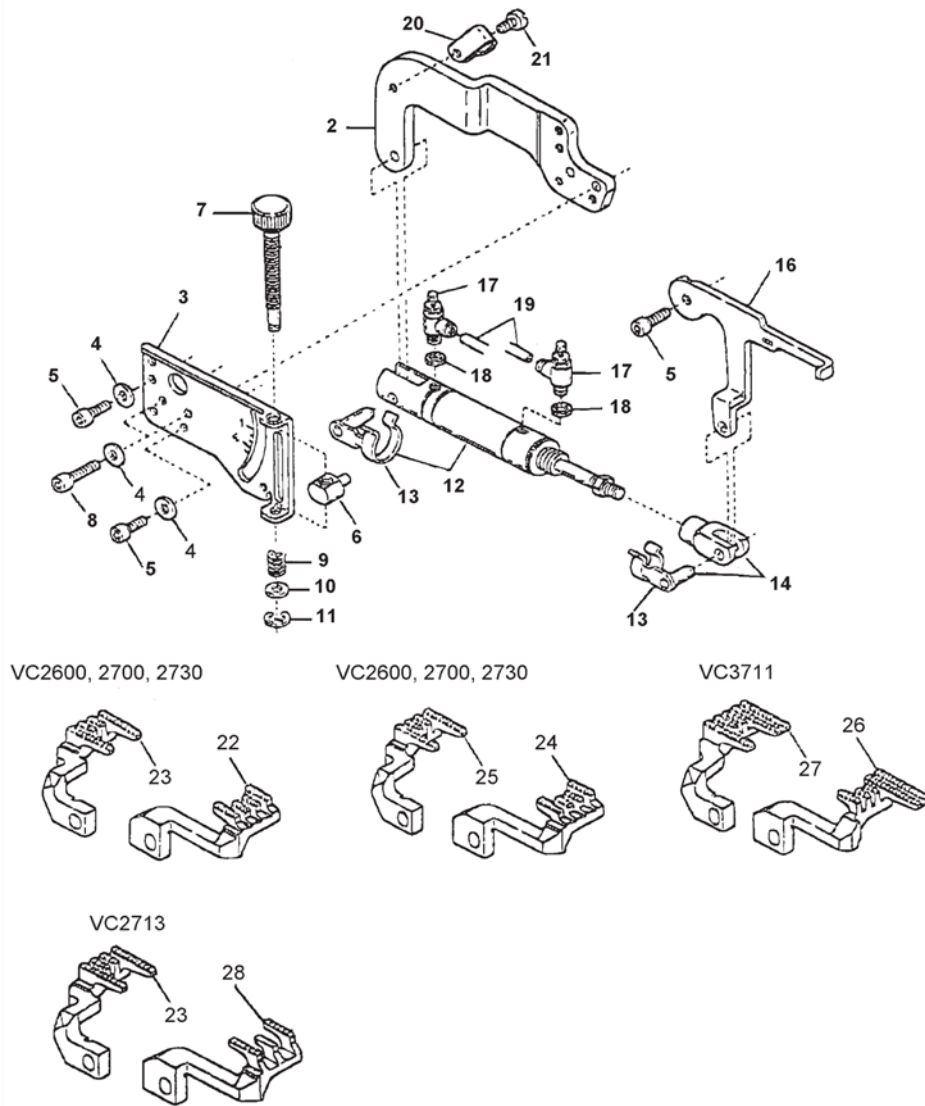
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	12789-2021A	Edge Guide	8	2.5"	EEFE-RR2	Tape, Reflective
2	1	40-202D	Tongue, Folder	9	2	NNC8-32	Nut Cap
3	1	40-204B	Folder Top	10	2	SSCM4H16	Scr, Ch Hd M4x16mm
4	1	40-241B	Adaptor, Folder mnt	11	4	SSSC90024	Scr, So Cp 8-32x3/8
5	1	40-267	Backplate, Folder	12	8	WWF8	Flat Washer
6	1	40-270	Air Jet, Folder Mnt	13	4	WWSI8	Int Tooth Washer
7	1	AAEME-5-10	Quick Male Conn				



## 40-266D Folder Sub-Assembly

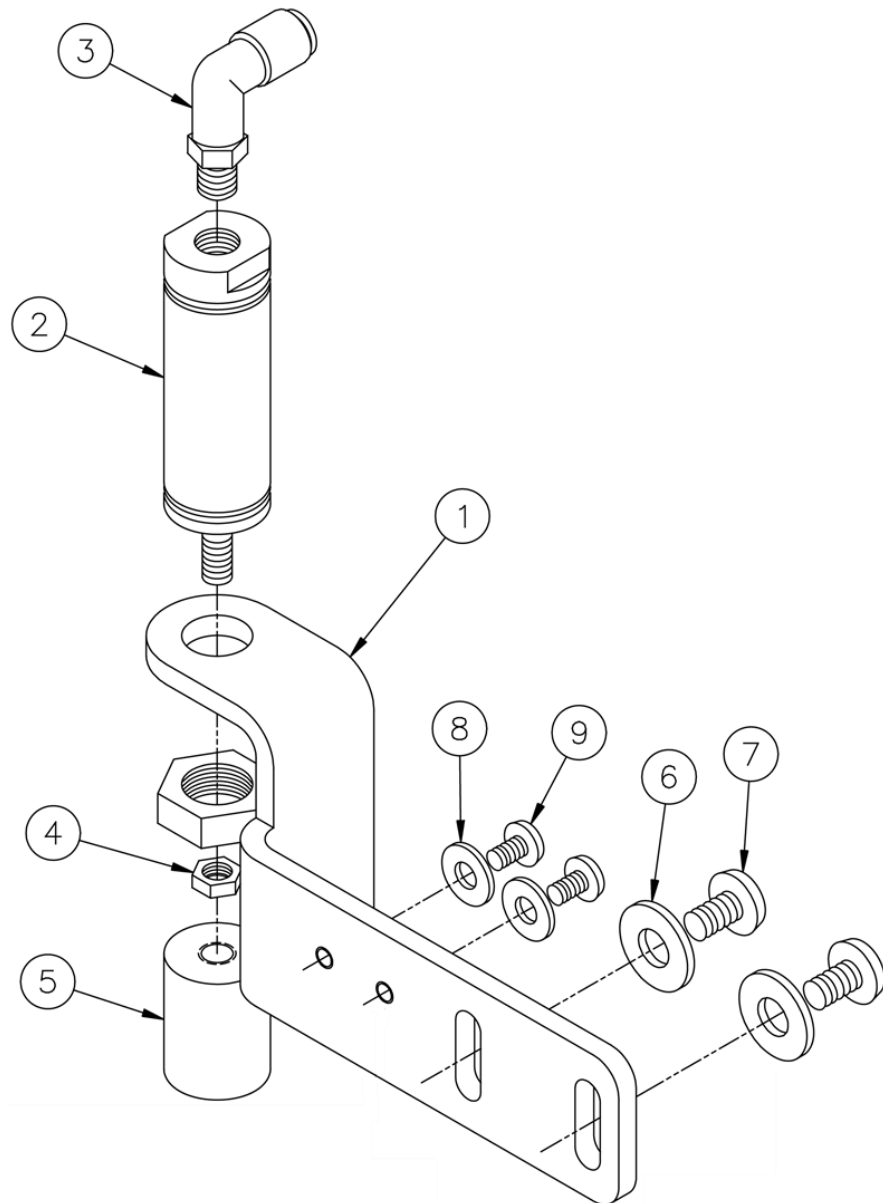
AAC Drawing Number 191480C Rev 1

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	12789-2021A	Edge Guide	8	2.5"	EEFE-RR2	Tape, Reflective
2	1	40-202B	Tongue, Folder	9	2	NNC8-32	Cap Nut
3	1	40-204B	Folder Top	10	2	SSCM4H16	Scr, Ch Hd M4x16mm
4	1	40-241B	Adaptor, Folder mnt	11	4	SSSC90024	Scr, So Cp 8-32x3/8
5	1	40-267	Backplate, Folder	12	8	WWF8	Flat Washer
6	1	40-270	Air Jet, Folder Mnt	13	4	WWSI8	Int Tooth Washer
7	1	AAEME-5-10	Quick Male Conn				



### 40-3A1 / 40-3A2 3101750 Stitch Condenser

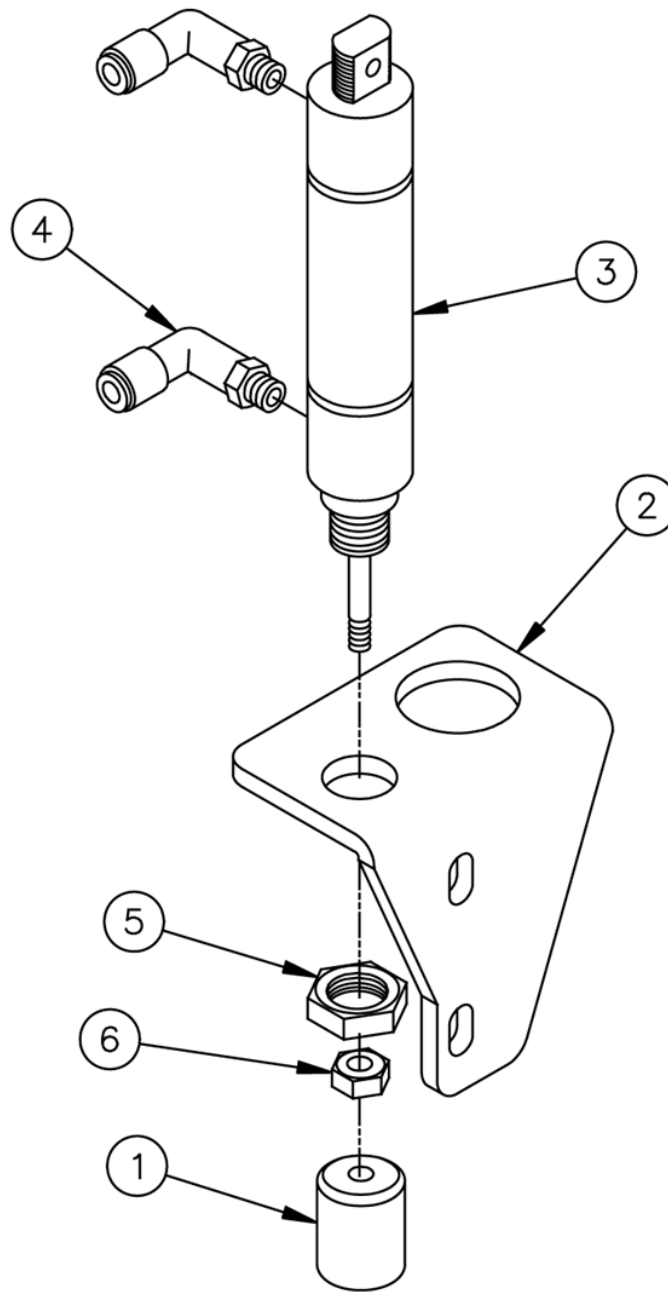
NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
2		3101751	Cylinder Support	15		1255174	Joint Pin
3		3101752	Feed Graduation	16		3101753	Feed Control Lever
4		538	Washer	17		1095001	Speed Controller
5		SSM009746	Scr, M4-0.7x8	18		623	Gasket
6		SSM120024	Scr, M4-0.7x14	19		10260	Vinyl Tube
7		3101754	Adjusting Screw	20		63612	Cord Clamp
8		2100264	Adjusting Block	21		SSM110013	Scr, M4-07x8
9		2100259	Adjusting Block Spring	22		3109070	Diff Feed Dog
10		1123	Washer	23		3109071	Main Feed Dog
11		34293	Retaining Ring	24		3109072	Diff Feed Dog
12		1091129	Cylinder	25		3109073	Main Feed Dog
13		10287	Cylinder Joint Pin	26		3119040	Diff Feed Dog
14		10284	Y-Knuckle	27		3119031	Main Feed Dog



## 40-3D St. Cond Kit, Yamato

AAC Drawing Number 190124A Rev 1

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	40-904	Bracket	6	2	WWF10	Flat Washer
2	1	AAC7S-.5	Cylinder, Air	7	2	SSCM6X10	Scr, Ch Hd 6mmx10mm
3	1	AAQME-5-8	Quick Male Elbow	8	2	WWF8	Flat Washer
4	1	NNH1/4-28	Hex Nut	9	2	SSPS90016	Scr, Pn SI 8-32x1/4
5	1	11200	Bumper				



### 40-3E Stitch Condensing Kit for Pegasus

AAC Drawing Number 191061B Rev 0

NO.	QTY	PART #	DESCRIPTION	NO.	QTY	PART #	DESCRIPTION
1	1	11200	Bumper	4	2	AAQME-5-8	Quick Male Elbow
2	1	40-905	Bracket	5	1	NNH5/8-18	Hex Nut
3	1	AAC&DP-1	Air Cylinder	6	1	NNJ1/4-28	Jam Nut

## Atlanta Attachment Company (AAC) Statement of Warranty

### Manufactured Products

Atlanta Attachment Company warrants manufactured products to be free from defects in material and workmanship for a period of eight hundred (800) hours of operation or one hundred (100) days whichever comes first. Atlanta Attachment Company warrants all electrical components of the Serial Bus System to be free from defects in material or workmanship for a period of thirty six (36) months.

### Terms and Conditions:

- AAC Limited Warranty becomes effective on the date of shipment.
- AAC Warranty claims may be made by telephone, letter, fax or e-mail. All verbal claims must be con-firmed in writing.
- AAC reserves the right to require the return of all claimed defective parts with a completed warranty claim form.
- AAC will, at its option, repair or replace the defective machine and parts upon return to AAC.
- AAC reserves the right to make the final decision on all warranty coverage questions.
- AAC warranty periods as stated are for eight hundred (800) hours or one hundred (100) days whichever comes first.
- AAC guarantees satisfactory operation of the machines on the basis of generally accepted industry standards, contingent upon proper application, installation and maintenance.
- AAC Limited Warranty may not be changed or modified and is not subject to any other warranty expressed or implied by any other agent, dealer, or distributor unless approved in writing by AAC in advance of any claim being filed.

### What Is Covered

- Electrical components that are not included within the Serial Bus System that fail due to defects in material or workmanship, which are manufactured by AAC are covered for a period of eight hundred (800) hours.
- Mechanical parts or components that fail due to defects in material or workmanship, which are manufactured by AAC.
- Purchased items (sewing heads, motors, etc.) will be covered by the manufacturers (OEM) warranty.
- AAC will assist in the procurement and handling of the manufacturers (OEM) claim.

### What Is Not Covered

- Parts that fail due to improper usage, lack of proper maintenance, lubrication and/or modification.
- Damages caused by; improper freight handling, accidents, fire and issues resulting from unauthorized service and/or personnel, improper electrical, plumbing connections.
- Normal wear of machine and parts such as Conveyor belts, "O" rings, gauge parts, cutters, needles, etc.
- Machine adjustments related to sewing applications and/or general machine operation.
- Charges for field service.
- Loss of time, potential revenue, and/or profits.
- Personal injury and/or property damage resulting from the operation of this equipment.

## Declaración de Garantía

### Productos Manufacturados

Atlanta Attachment Company garantiza que los productos de fabricación son libres de defectos de material y de mano de obra durante un periodo de ochocientos (800) horas de operación o cien (100) días cual llegue primero. Atlanta Attachment Company garantiza que todos los componentes del Serial bus son libres de defectos de material y de mano de obra durante un periodo de treinta y seis (36) meses.

### Términos y Condiciones:

- La Garantía Limitada de AAC entra en efecto el día de transporte.
- Reclamos de la Garantía de AAC pueden ser realizados por teléfono, carta, fax o correo electrónico. Todo reclamo verbal tiene que ser confirmado vía escrito.
- AAC reserva el derecho para exigir el retorno de cada pieza defectuosa con un formulario de reclamo de garantía.
- AAC va, según su criterio, reparar o reemplazar las máquinas o piezas defectuosas devueltas para AAC.
- AAC reserva el derecho para tomar la decisión final sobre toda cuestión de garantía.
- Las garantías de AAC tiene una validez de ochocientas (800) horas o cien (100) días cual llega primero.
- AAC garantiza la operación satisfactoria de sus máquinas en base de las normas aceptadas de la industria siempre y cuando se instale use y mantenga de forma apropiada.
- La garantía de AAC no puede ser cambiado o modificado y no está sujeto a cualquier otra garantía implicada por otro agente o distribuidor menos al menos que sea autorizado por AAC antes de cualquier reclamo.

### Lo Que Está Garantizado

- Componentes eléctricos que no están incluidos dentro del sistema Serial Bus que fallen por defectos de materiales o de fabricación que han sido manufacturados por AAC son garantizados por un período de ochocientas (800) horas.
- Componentes mecánicos que fallen por defectos de materiales o de fabricación que han sido manufacturados por AAC son garantizados por un periodo de ochocientas (800) horas.
- Componentes comprados (Motores, Cabezales,) son protegidos debajo de la garantía del fabricante.
- AAC asistirá con el manejo de todo reclamo de garantía bajo la garantía del fabricante.

### Lo Que No Está Garantizado

- Falla de repuestos al raíz de uso incorrecto, falta de mantenimiento, lubricación o modificación.
- Daños ocurridos a raíz de mal transporte, accidentes, incendios o cualquier daño como resultado de servicio por personas no autorizados o instalaciones incorrectas de conexiones eléctricas o neumáticas.
- Desgaste normal de piezas como correas, anillos de goma, cuchillas, agujas, etc.
- Ajustes de la máquina en relación a las aplicaciones de costura y/o la operación en general de la máquina.
- Gastos de Reparaciones fuera de las instalaciones de AAC
- Pérdida de tiempo, ingresos potenciales, y/o ganancias.
- Daños personales y/o daños a la propiedad como resultado de la operación de este equipo.





## TRAINING

Check	Description	Time Hrs.
	<b>Basic Function - Review Of Machine</b> <ul style="list-style-type: none"> <li>• Sequence of operation</li> <li>• Manual And Automatic Operation For Technicians</li> </ul>	2
	<b>Discuss Operation Of Drive System</b> <ul style="list-style-type: none"> <li>• Puller drive system, stepping motor controller.</li> <li>• Left roller drive system, stepping motor controller.</li> <li>• Right roller drive system, stepping motor controller.</li> <li>• Adjustments and functions of each.</li> <li>• Setting of jog feature of each.</li> <li>• Power connections and AMP settings of each.</li> </ul>	3
	<b>Electric eyes: Edge Guiding</b> <ul style="list-style-type: none"> <li>• Discuss the ease of setting the eyes in correct position.</li> <li>• Easy removal of eyes.</li> <li>• Set gain on electric eyes.</li> <li>• Maintenance of reflective tape.</li> </ul>	1.5
	<b>Sewing Heads of Each Unit – Maintenance</b> <ul style="list-style-type: none"> <li>• Basic function.</li> <li>• Oil and filter change intervals.</li> <li>• Timing and adjustments.</li> <li>• Recommended speeds for different threads.</li> </ul>	4
	<b>Hemmer Sewing Head</b> <ul style="list-style-type: none"> <li>• Foot lift/head lift switch.</li> <li>• Air electric switch in conjunction with foot lift.</li> <li>• Chain cutter assembly basic function.</li> <li>• Maintenance of chain trimmer.</li> <li>• Proper adjustments of knife blades.</li> <li>• Setting of chain trimmer to sewing head.</li> </ul>	2
	<b>Waste System Assembly Function and Operation</b> <ul style="list-style-type: none"> <li>• Disassemble vacuum assembly; adjust for proper air volume; set to proper PSI (80 psi.).</li> <li>• Discuss how to perform preventative maintenance.</li> <li>• Proper tube connection.</li> </ul>	1
	<b>Edge Trimming Knife</b> <ul style="list-style-type: none"> <li>• Knife adjustment, disassembly and adjustments.</li> <li>• Proper setting and changing blades.</li> <li>• Height of assembly to folder.</li> </ul>	1
	<b>Folder on Hemmer</b> <ul style="list-style-type: none"> <li>• Basic function.</li> <li>• Mechanical breakdown adjustment</li> </ul>	1

	<ul style="list-style-type: none"> <li>• Alignment procedure.</li> <li>• Adjust hem size procedure.</li> </ul>	
	<b>Thread Detectors Hemmer and Seamer</b> <ul style="list-style-type: none"> <li>• Proper alignment.</li> <li>• Adjust sensitivity.</li> <li>• Operation procedure</li> </ul>	0.5
	<b>Stacker</b> <ul style="list-style-type: none"> <li>• Basic operation.</li> <li>• Adjustment of door and tray alignment.</li> </ul>	1
	<b>Sew Off Machine</b> <ul style="list-style-type: none"> <li>• Start review of any questions thus far.</li> </ul>	1
	<b>Electrical and Pneumatics</b> <ul style="list-style-type: none"> <li>• Diagram evaluation.</li> <li>• Discuss on-board programming of new AAC logic control</li> </ul>	4
	<b>Troubleshoot Unit</b>	1
	<b>Basic Function - Review Of Machine with Operator</b> <ul style="list-style-type: none"> <li>• Sequence of operation</li> <li>• Operator instruction and breakdown</li> <li>• Manual And Automatic Operation For Operator</li> </ul>	2
	<b>Evaluate any questions.</b>	1

**Participants:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Instructor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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