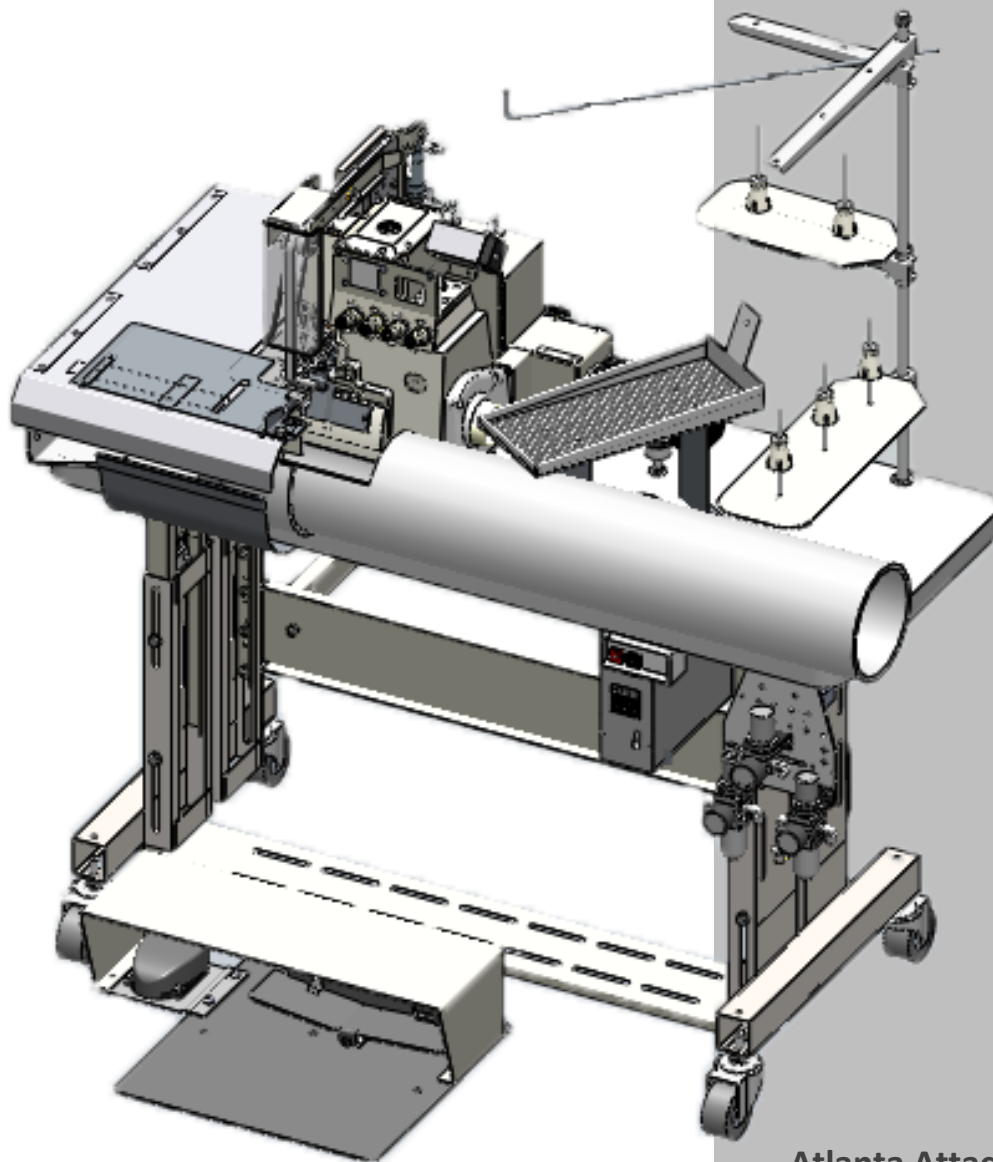




Model **1337HEH**

Revision 5.4 Updated Jan 17, 2017

Technical Manual & Parts Lists



From the library of: Diamond Needle Corp

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ATLANTA ATTACHMENT COMPANY, INC.

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IMPORTANT

It is important to read and understand the information contained within this manual before attempting to operate the machine. Atlanta Attachment Co., Inc. shall not be held liable for damage resulting from misuse of the information presented within, and reserves the right to change the information contained within, without prior notification.

Content

Content.....	2
Important Safety Instruction	1
Liability.....	2
Safety Equipment on the Machines	3
Protective Eyewear	4
Important Notices.....	5
Maintenance	7
Repair	8
A Word to the End User.....	9
Safety Precautions.....	9
General Machine Data	10
Electrical & Pneumatic Specifications.....	10
Installation & Setup	10
Operation.....	10
Air Regulators:.....	10
Swinging Out the Presser Foot	11
Foot Pressure Release Pedal (Left Air Pedal).....	11
Foot Lift Pedal (Center Pedal)	11
Adjustments	12
Synchronizing the Belt Feed to the Feed Dog	12
Adjusting the Foot Lift Cylinder.....	13
Adjusting the Presser Foot Position.....	13
Adjusting the Presser Foot down Position.....	14
Adjusting the Presser Foot Position Left to Right	15
Adjusting the Stitch Length	16
Adjusting the Needle Lifting Link	17
Adjusting the Needle down Safety Switch	17
Adjusting the Rotary Actuator for Needle Lifted Position	18
Adjusting the Timing of Loopers and the Needle Guards	19
Threading the Needle Take-ups	20
1337HSEHLPAR4 Parameter Settings.....	21
Setting Needle up Position.....	22
Machine Maintenance	23
Cleaning the Filter and Pump Net.....	23
Recommended Spare Parts List	24
Electric Eye Sensor Adjustment (If present)	25

Reflective Tape Maintenance	25
Assembly Drawings & Parts Lists	27
11337HEHLJ28C Panel Flanger, High Lift.....	28
11337HEHL28CSD Panel Flanger, High Lift, Sit Down.....	29
11337HEHLJ28ER Panel Flanger, High Lift, Ergo	30
1337H-1002 Console Assembly, HL Panel Flanger.....	32
1337H-1002ER Console Assembly, HL Panel Flanger,Ergo.....	34
1337884 Generic Console Assembly, HL	36
11337HSEHLJ28E Sew Head Assembly	38
1337595 Sew Head Sub Assembly	40
1337605 Belt Feed Assembly	42
1337610 Drive Assembly, HD, Long	44
1337624 Drive Motor Assembly	46
1337596 Needle Bar Drive Assembly	48
1337465 Needle Lift Assembly	50
1337278 Handwheel Puller Assembly.....	51
4059-FP301D Foot Pedal Assembly	52
1337-1500A Pneumatic Panel Assembly.....	54
1337HEC-PD Pneumatic Diagram	55
1337HE-WD Wiring Diagram.....	56

Important 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 1337HEH, 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.

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 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.

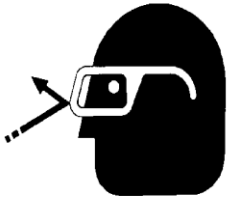
Signs on the Machine

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.

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.

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.

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 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.

General Machine Data

Electrical & Pneumatic Specifications

Electrical: 220 VAC, 5amp, 50/60 Hz Single Phase

Pneumatic: 70 PSI, 20 SCFM avg. (3/8" Airline).

- Set the MAIN regulator to 70 PSI
- Set the WASTE regulator to 70 PSI.
- Set the FOOT DOWN regulator to 40 PSI.

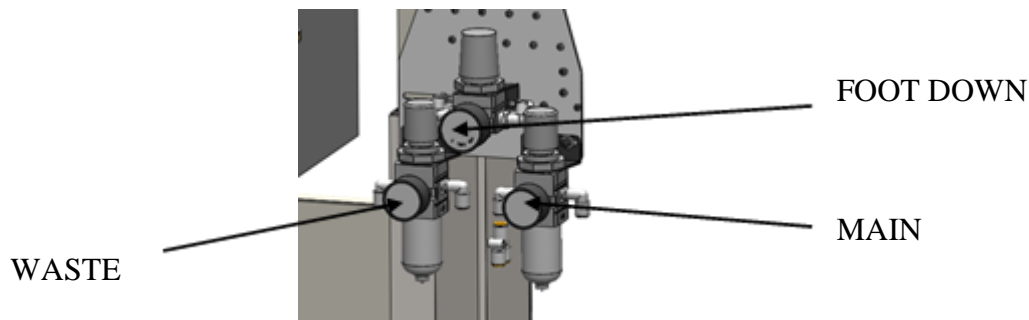
Installation & Setup

1. Remove all packing material (bubble wrap, foam padding, etc.).
2. Position the machine in a desired location on a sound and reasonably level floor. Adjust the leveling feet as required.
3. Make sure that there is sufficient lighting over the machine.
4. Clean the machine of any dust that may have accumulated during shipping.
5. Make required electric and pneumatic connections using only appropriate connectors. Make sure the voltage has been set correctly.
6. **Important!** - Before shipping, all oil from the sewing head is drained. Be sure to supply oil to the sewing head before using the machine.

Operation

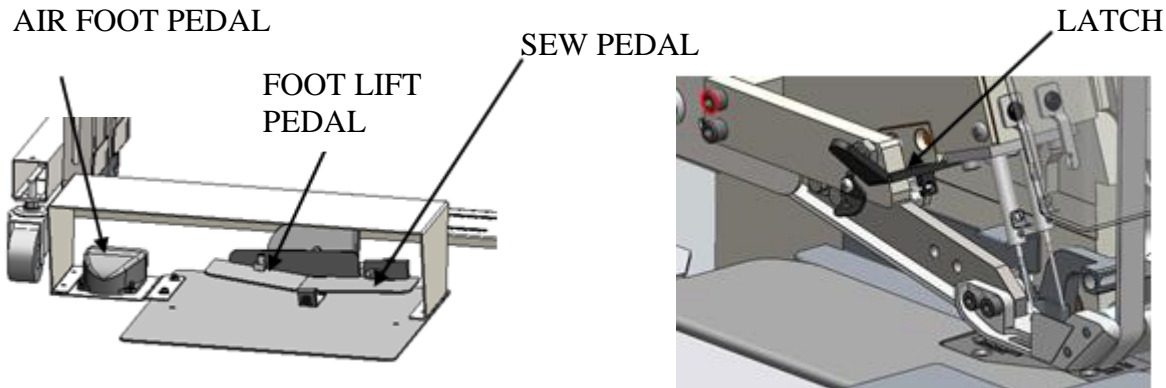
Air Regulators:

There are three regulators mounted on the right side of the stand. The regulator on the right is the MAIN regulator. It is set to 70 psi. The regulator on the left is for the WASTE system and is also set to 70 psi. Both regulators have a water trap and filter element. The water should be drained daily and the filter changed every 6 months. The center regulator is for the DOWN foot pressure and is usually set to 40 psi, but can be adjusted as necessary.



Swinging Out the Presser Foot

Two air regulators control the foot pressure. The main regulator supplies the high pressure needed to lift the foot and the FOOT DOWN pressure regulator controls the foot pressure while sewing. The DOWN foot pressure should be preset to about 60 psi, but can be adjusted as desired. In order to swing out the foot for access to sewing fittings, etc. there is an AIR FOOT PEDAL mounted on the left side of the treadle assembly that will relieve the DOWN pressure on the foot so the foot can be swung out.



Foot Pressure Release Pedal (Left Air Pedal)

While stepping on the left AIR FOOT PEDAL, with the left hand, push down on the swing out LATCH, and with the right hand, push the foot down and to the left.

DO NOT ATTEMPT TO RUN THE SEWING HEAD WITH THE FOOT SWUNG OUT. DAMAGE TO THE DRIVE MAY RESULT.

To turn the sewing head over by hand to set timing, etc., swing the foot back in as close to the needles as possible without hitting the needles. Always use the left AIR FOOT PEDAL to release foot pressure whenever moving the presser foot.

Reverse the procedure to swing the foot back in. Be sure the latch is engaged. This same AIR FOOT PEDAL is used to lift the presser foot to its intermediate height **WITHOUT** lifting the needles from their sewing position. Use the air foot pedal to lift the foot without lifting the needles when stopping in the needle down position.

Foot Lift Pedal (Center Pedal)

The center position on the treadle assembly is the FOOT LIFT PEDAL. Stepping on it will lift the presser foot all the way up to its maximum height. When the foot comes up, the needles will also retract to their highest position. Be sure the machine stops at the needle top dead center position to prevent the foot from hitting the needle bars.

Sew Pedal (Right Pedal):

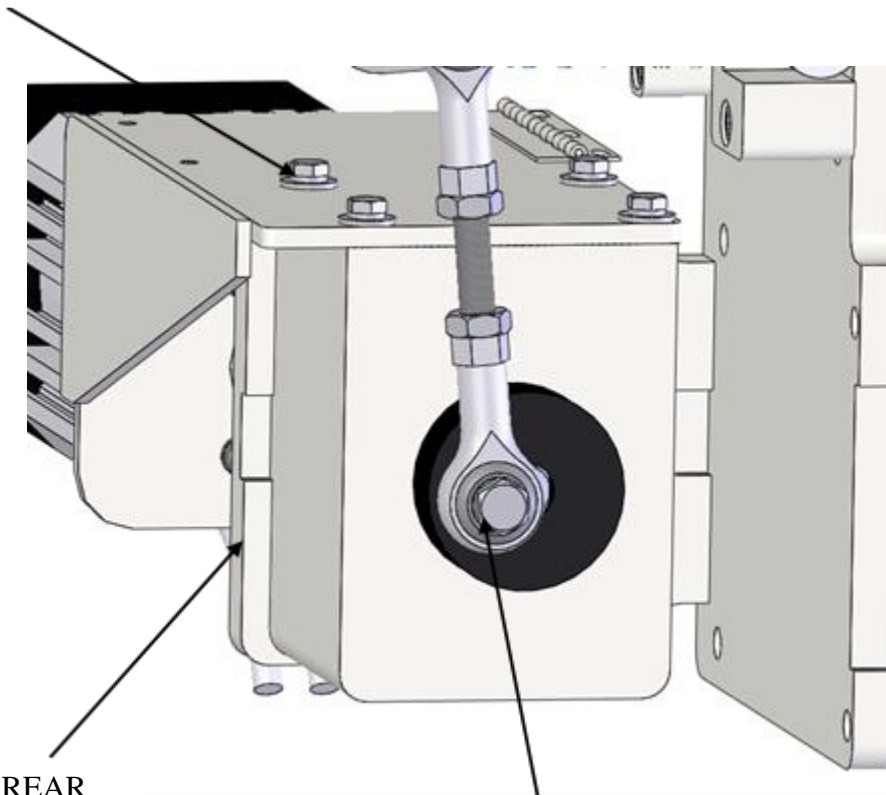
The right pedal on the treadle assembly is the SEW PEDAL. It controls the sewing speed.

Adjustments

Synchronizing the Belt Feed to the Feed Dog

When the needles are at top dead center the eccentric drive screw should be all the way to the rear. Adjustment is made by removing the motor and bracket assembly (4 screws on top), and then loosening the drive belt and repositioning the teeth of the pulleys to the belt.

TOP SCREWS

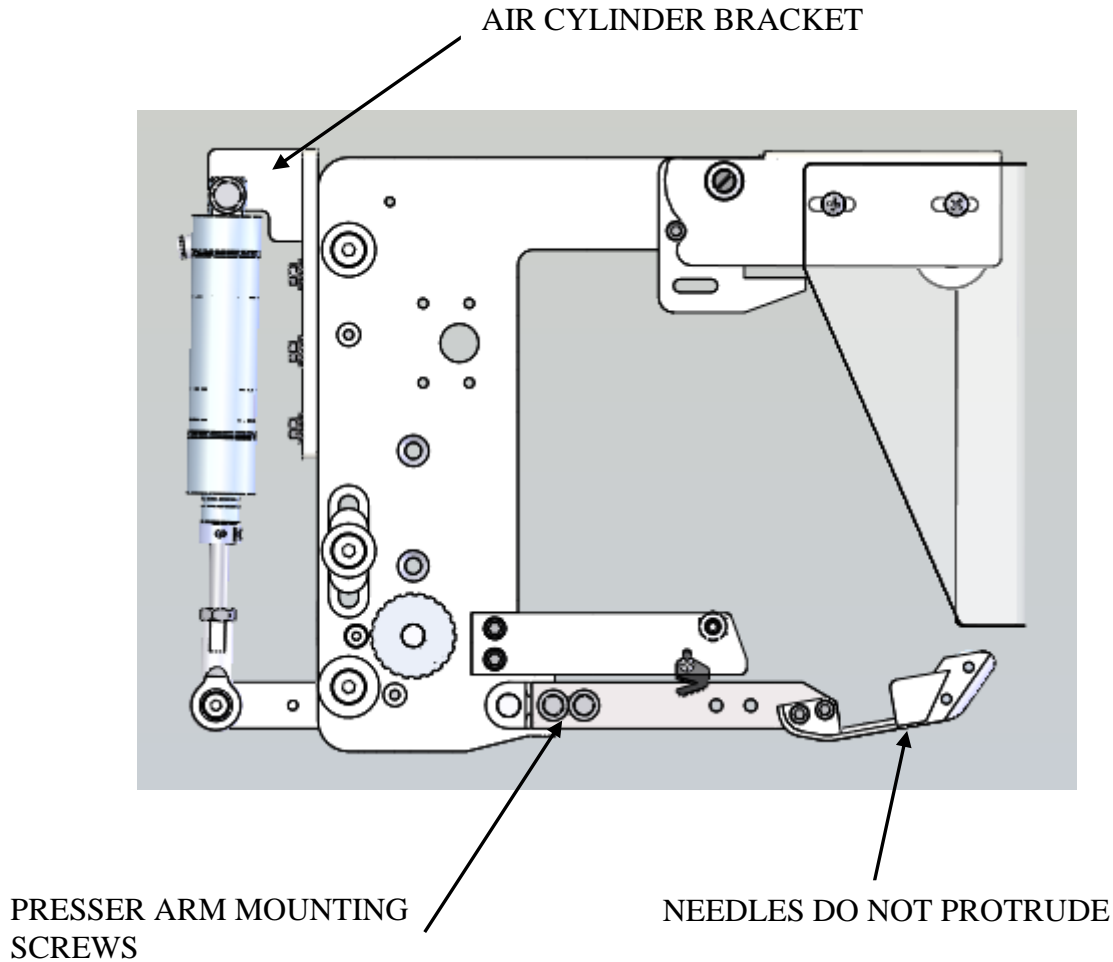


LOOSEN REAR
SCREWS TO
ADJUST BELT

ECCENTRIC DRIVE SCREW
TO REAR POSITION @
NEEDLE TOP DEAD CENTER

Adjusting the Foot Lift Cylinder

When the foot lift cylinder is fully extended (Foot Lift on), the lower belt should be lifted and parallel to the cloth plate. Adjust by loosening the three screws that hold the air cylinder mounting bracket and slide the bracket up or down as necessary

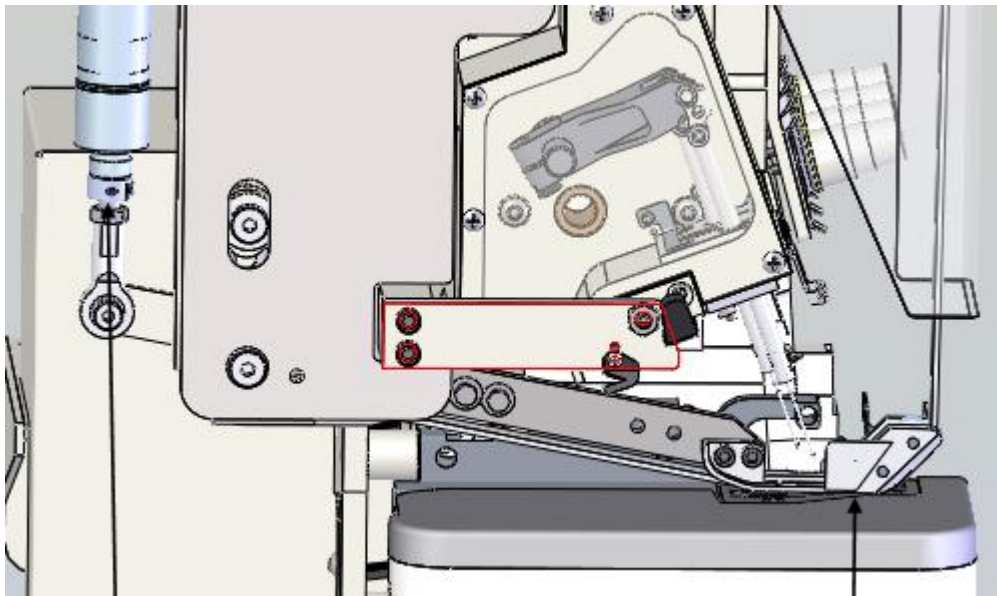


Adjusting the Presser Foot Position

The presser foot must be positioned front to rear so that the chaining finger can never hit the upper looper when the foot is lifted. Loosen the two presser arm mounting screws, step on the left AIR FOOT PEDAL to relieve the foot pressure, manually lift the foot, and slide the presser arm forward or backward as needed so the chaining finger cannot hit the looper as it moves up and down

Adjusting the Presser Foot down Position

Adjust the clamp collar position so that when the foot is down the bottom of the foot does not touch the feed dog teeth. There should be about 1mm clearance between the teeth and the bottom of the foot when the feed dog is in its highest position.

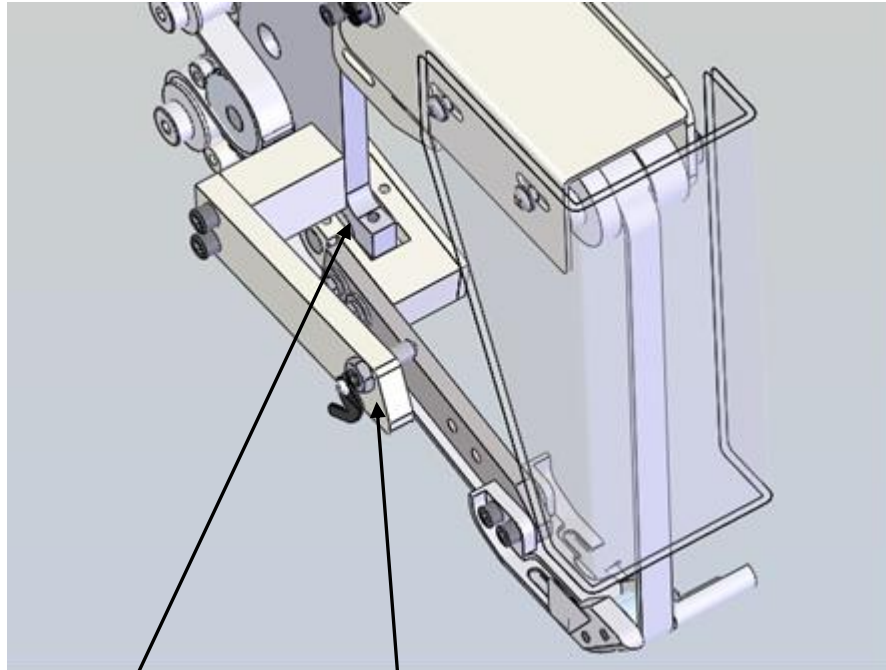


ADJUSTING COLLAR

1MM CLEARANCE ABOVE FEED
DOG TEETH

Adjusting the Presser Foot Position Left to Right

Adjust the set screw located near the latch to remove any “play” in the latch. Adjust the bushing left to right to center the needles on the needle slots in the foot.

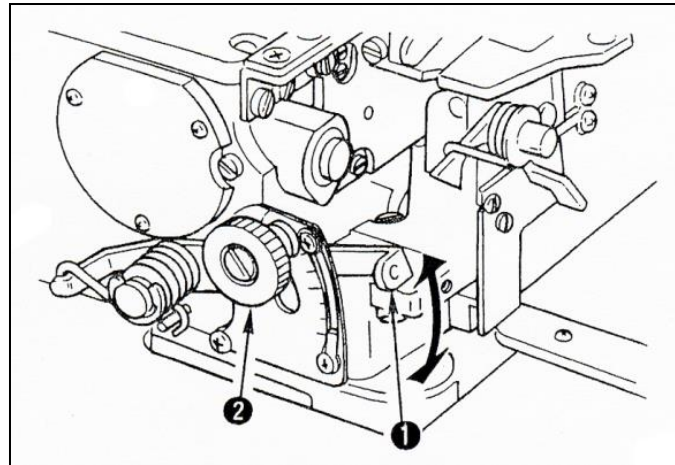


ADJUSTING SET SCREW

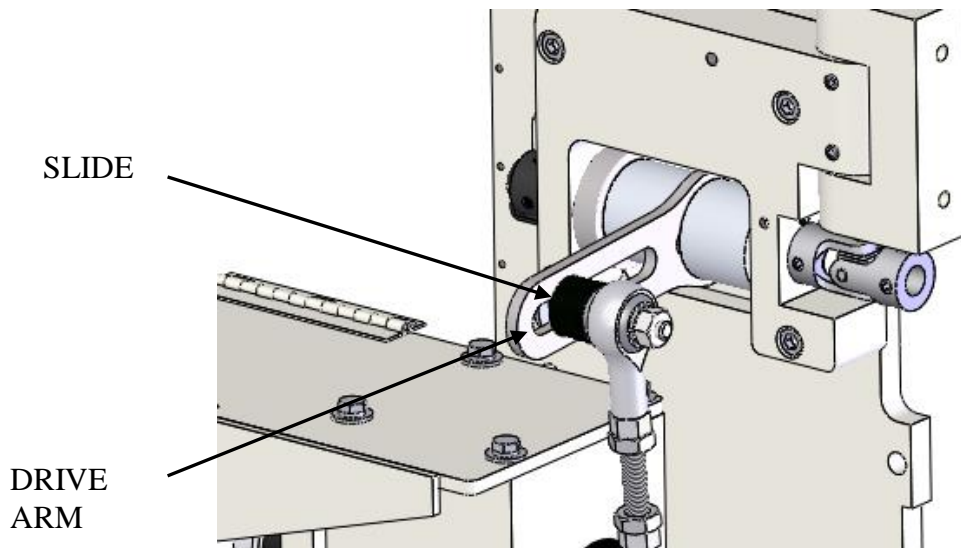
ADJUSTING BUSHING

Adjusting the Stitch Length

1. The FEED DOG is mounted to the differential feed mechanism. Loosen the differential feed lock nut (2). Turn the top knob to move the lever (1) up for shorter stitch or down for longer stitch. Run the machine on a piece of quilted panel and check that the top belt feed is feeding the top ply the same as the bottom ply. If not, adjust the top belt feed drive. The normal main feed adjustment using the button and handwheel is not used. It should be set for maximum.

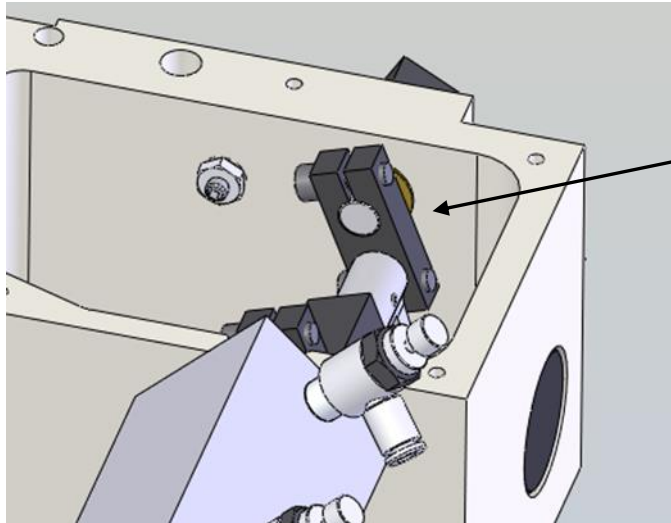


1. To adjust the top belt feed drive, move the slide in or out in the slot on the drive arm on the back of the machine to match the new stitch length. Moving the slide out shortens the feed and moving it in lengthens the feed.



Adjusting the Needle Lifting Link

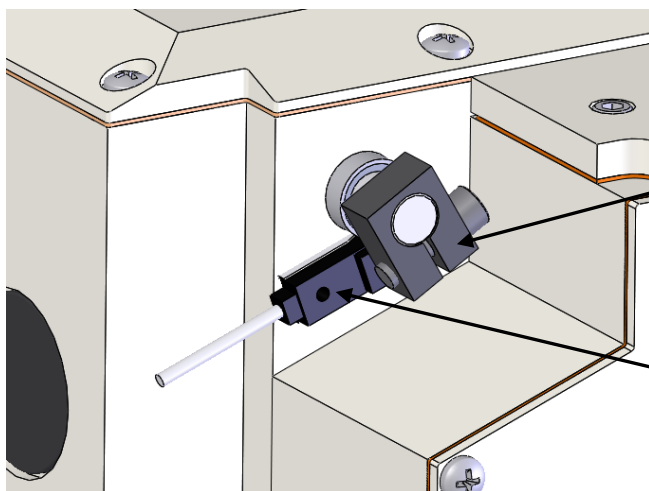
When the rotary actuator is all the way clockwise (viewed from shaft end) at the foot down position the Needle Lift Link should be tilted 20 deg. to the rear.



NEEDLE LIFT LINK TILTED
20 DEG. TO REAR.

Adjusting the Needle down Safety Switch

When the rotary actuator is all the way clockwise (viewed from shaft end) the Needle Down Safety Switch SENSOR BLOCK should cover the sensor about half way and have about one mm clearance from the sensor.

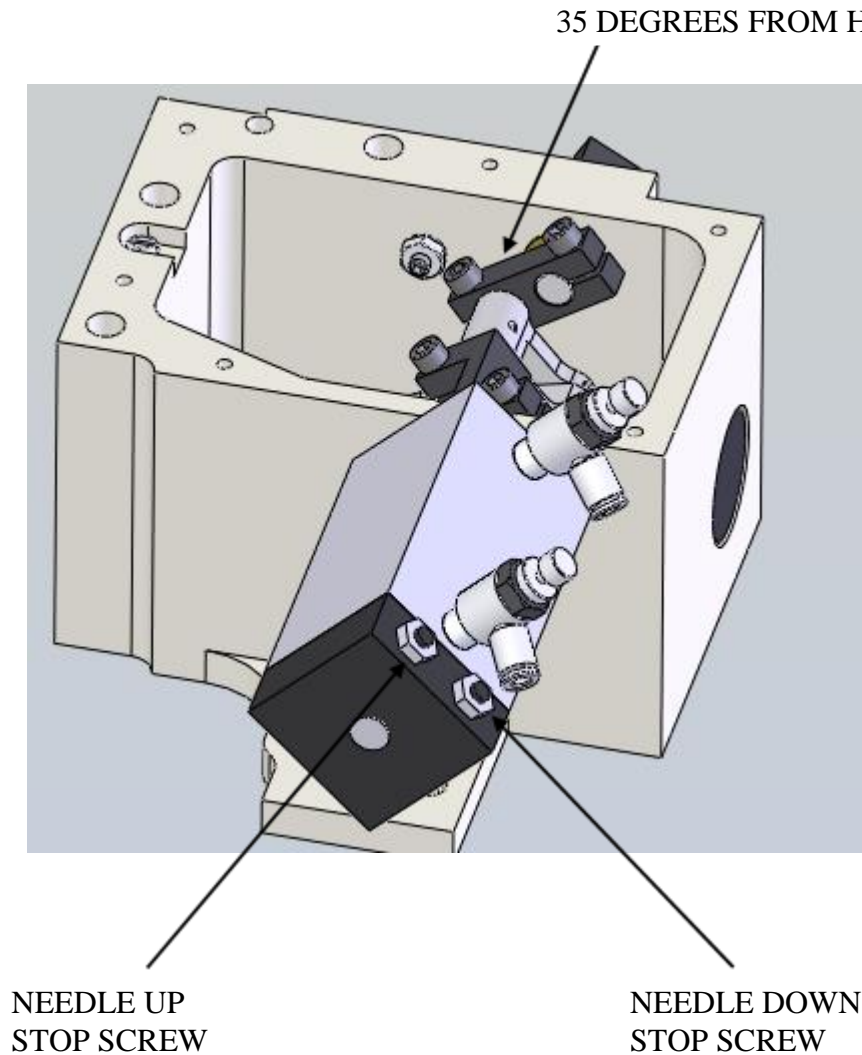


SENSOR
BLOCK

SENSOR

Adjusting the Rotary Actuator for Needle Lifted Position

When the rotary actuator is all the way counter-clockwise (viewed from shaft end) at the foot up position the needle lift link should be rotated to a position about 35 degrees from horizontal. This adjustment is made by loosening the locknut and turning the NEEDLE UP STOP SCREW. Adjust so the needles are lifted as high as possible without the needle bar thread guides hitting the frame.

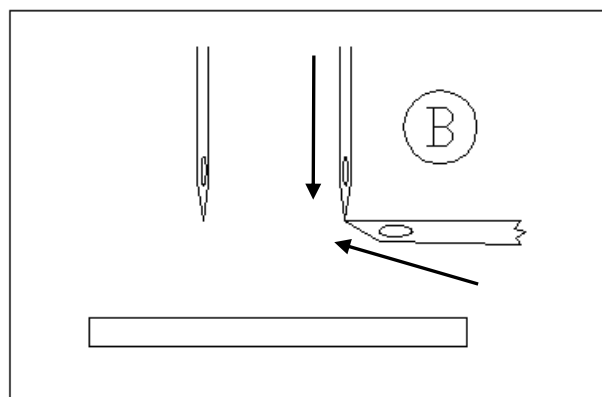
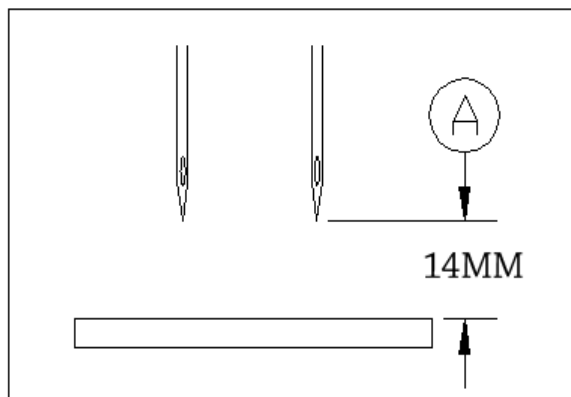
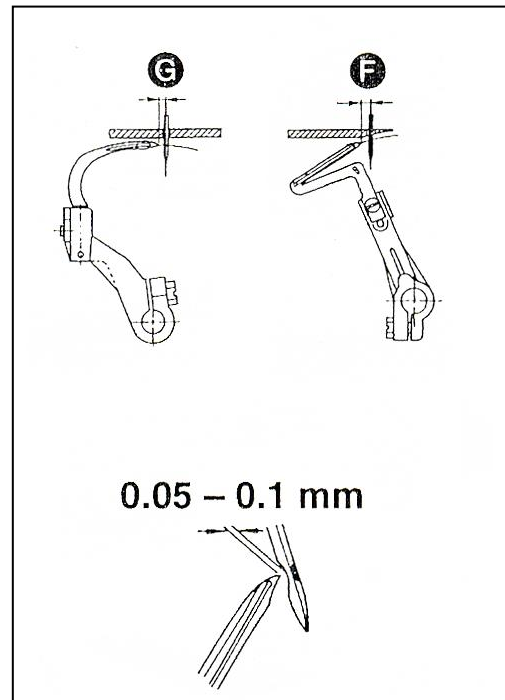
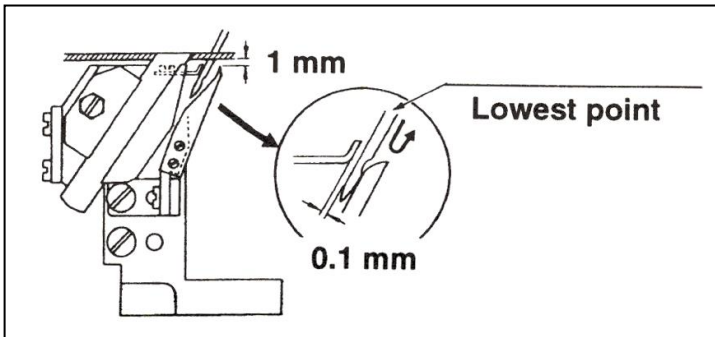


Adjusting the Timing of Loopers and the Needle Guards

The looper and needle guard are set according to the dimensions in the illustrations on this page at the factory. Needle Top Dead Center is 14mm above throat plate.

Warning: These adjustments should be made by a qualified technician. To avoid injury, disconnect the power source before making adjustments. Be sure that all screws are tightened and that none of the components come in contact with each other before restoring power to the machine.

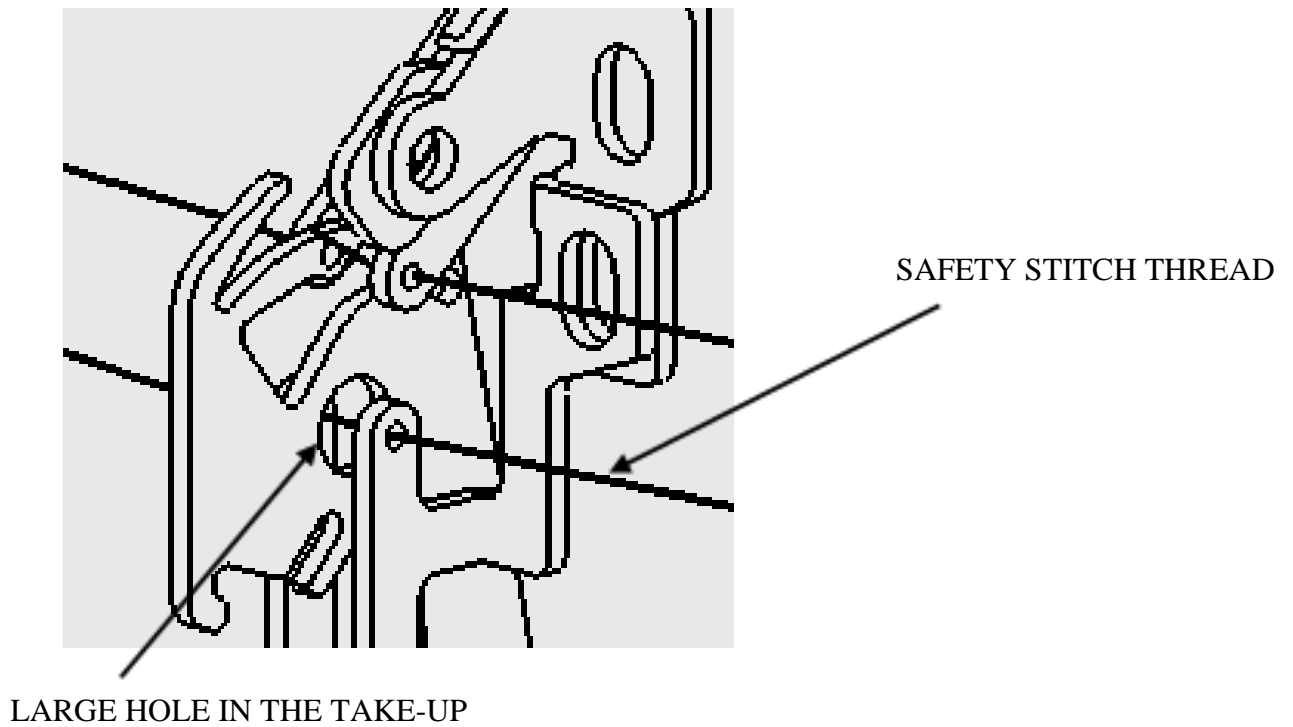
14mm
 F=3mm
 G=2mm



Point of needle and point of looper align as looper rises (B).

Threading the Needle Take-ups

The overedge needle thread goes thru the upper eyelets and over the top of the take-up. The safety stitch thread goes thru the lower eyelets and thru the large hole in the center of the take-up.



1337HSEHLPAR4 Parameter Settings

Perform a master reset before programming, see below

PARAMETER	RANGE	VALUE	DESCRIPTION
290		5	Mode of operation. MUST SET THIS PARAMETER FIRST!
026	0-5	0	F-026=0 to disable the EB401 selection after power on.
111	200-9900 rpm	3500	Maximum speed.
019	0-4	1	Sew Foot Disable in seam
026	0-7	1	Treadle function. 0=oldstyle 1=new
161	0-1	1=CCW	Motor rotation
202	0-500	500	Start delay after foot lift. (0.5 sec.)
240	0-66	6	Machine run blocked with closed contact in1
270	0-5	0	External handwheel sensor configuration. (NO 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.
436		0	Must use code "5913". This disables an input that was causing box to reset itself.
401	0	1	Change setting from 0 to 1 and press enter to save all settings.

Set Needle Positions (270 MUST BE "0")

- Set to 1st needle position "Down" and 2nd Needle position "UP".
- Go into programming mode with code "3112".
- Go to parameter 171
- Press [E], display shows SR2
- Press [;>] display shows P1E (Start pos1, Ndl Down)
 - Turn handwheel in direction of sew until needle is at Down position.
 - Needles rising and loopers past scarf. Note parameter setting.
- Press [E]
- Display shows P2E = (Start pos2) rotate handwheel to needle UP position.
 - Needles Top Dead Center. Note parameter setting.
- Press [E]
- Display shows P1A = (End pos1) rotate handwheel to same number as P1E+42.
- Press [E]
- Display shows P2A = (End pos2) rotate handwheel to same number as P2E+42.
- Press [E]
- Press [P]

Run machine and heel back to save settings.

Front panel LED's:

- LED 1: Off
- LED 2: Off
- LED 3: Off
- LED 4: Off
- LED 5: On, Stop at needle down in seam.
- LED 6: Off, Stop at needle Up.
- LED 7: Off
- LED 8: Off

Programming Instructions:

1. Power on holding down the "P" button till "COD" is displayed.
2. Press ">>" to move cursor and enter the number "5913"
3. Press "E" once and "4.0.0." is displayed. This is a parameter.
4. Press ">>" to move cursor and enter the parameter number. X.X.X.
5. Press "E" to display value.
6. With the value on the screen, adjust to desired setting with + & - buttons.
7. Press "E" to save value. Next parameter is displayed.
8. Repeat at step 4.
9. Use par 401 to save settings at end.
10. Press "P" once when complete.

To Perform Master Reset of Parameters:

1. Power on holding down the "P" button till "COD" is displayed.
2. Press ">>" once and enter the number "591"
3. Press "E" twice and "093" is displayed.

Setting Needle up Position

Set to 1st needle position "UP" and 2nd Needle position "UP".

Go to parameter 171

Press [E], display shows SR2

Press [>>] display shows P1E (Start pos1, Ndl Dn)

Turn handwheel in direction of sew until display changes and needle is at Down position (Needles rising and loopers past scarf). Note parameter setting.

Press [E]

Display shows P2E = (Start pos2, Ndl Up) rotate handwheel to Needle Up position (Top Dead Center). Note parameter setting.

Press [E]

Display shows P1A = (End pos1) rotate handwheel to same number as P1E+42.

Press [E]

Display shows P2A = (End pos2) rotate handwheel to same number as P2E+42.

Press [E]

Press [P]

Press [P]

Front panel LED's:

LED 1: Off

LED 2: Off

LED 3: Off

LED 4: Off

LED 5: On, Stop needle down in the seam.*

LED 6: Off, (Stop at needle up.)

LED 7: Off

LED 8: Off

*Note: P1E should be set to stop needle down. When stopping needle down use the air foot switch to lift the foot without raising the needles.

Machine Maintenance

Regularly scheduled maintenance of the model 1337H unit reduces possible problems and downtime. Proper care will also ensure a longer life and better performance of the machine.

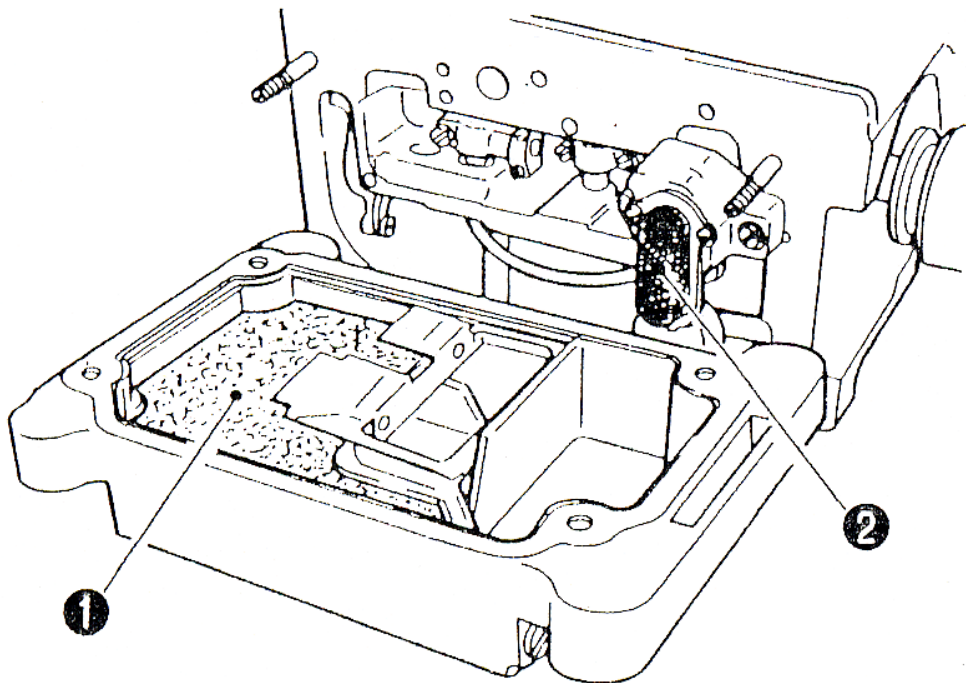
Perform the following procedures to properly maintain the machine.

1. Clean the machine once or twice a day.
 - a) Wipe off any electric photo eyes with a clean, nonabrasive, dry cloth.
 - b) Use a blow-off hose to remove any excess lint, thread or other clippings.
 - c) Clean any lint or threads from the top feed drive belt and pulleys.
2. Refer to the Juki sewing head manuals for the manufacturer's recommendations and guidelines for maintenance and lubrication of the sewing head.
3. Check the air regulator filters weekly. Change the filter elements once every 6 months.
4. Change the oil in the sewing machine every 3 to 4 months.

If the pointer bar of the oil gauge falls below the lower marker line of the gauge, add oil. Apply two or three drops of oil to the needle bar and upper looper guide and presser spring regulator before operating the machine for the first time and after a long period of disuse.

Cleaning the Filter and Pump Net

1. Clean the oil filter (1) and pump strainer (2) periodically: two or three times a year. If the filter and strainer are clogged with dust, etc., the machine components may not get proper oiling.
2. If the lubricating oil in the machine is discolored, change the oil also at the time of cleaning.



Recommended Spare Parts List

SP1337HHJ28A SPARE PARTS SET

PART #	DESCRIPTION	QTY
115-65900	CUTTER,UPPER, CARBIDE	2
115-66502	CUTTER,LOWER	2
118-90001	NEEDLE GUARD,LOWER	1
120-15400	NEEDLE HOLDER (GUARD	1
123-83501	LOOPER,UPPER	1
123-84202	LOOPER,LOWER	1
123-84400	LOOPER,CHAIN,MOG-371	1
1325-12	ROD END,BALL BEARING	1
1337001	GUARD,FRONT NEEDLE	1
1337002	GUARD,REAR NEEDLE	1
1337335	NEEDLE BAR & BUSHING	1
1342Z-201A	ROLLER DELRIN	1
1342Z-201B	ROLLER,DELRIN,TOP	1
3524-02M	U-JOINT	1
AAEVQZ2121	VALVE,BODY PORTED	1
BBB-65	BEARING,NEEDLE,.375B	2
BBB-66	BEARING,NEEDLE,.375B	2
BBB-66	BEARING,NEEDLE,.375B	2
BB1L005	BEARING,BALL,1/2ID	1
GG210L050	BELT,GEAR,3/8P, 1/2W,56TH	1
GG414XL050UK	BELT,GEAR,KEVKAR	1
M2J28-006	FEED DOG	1
M3J28-003	PLATE,THROAT,3/4GA	1
RRLE030CD7	SPRING,EXT,.030 X 2	1
RRLE045D1	SPRING,EXT .045X.38X	1
RRLE055DE9	SPRING,EXT .055X.44X	1
SNTVX722-140GB	NEEDLE,SYS TVX7,22/1	100
SS8080310TP	SCREW,SET,SLOTTED	2
SSM22735	SCREW,SHOULDER	4
SSSS80012	SCREW,SET,6-32 X 3/16	6
SSSS90012	SCREW,SET,8-32 X 3/16	6

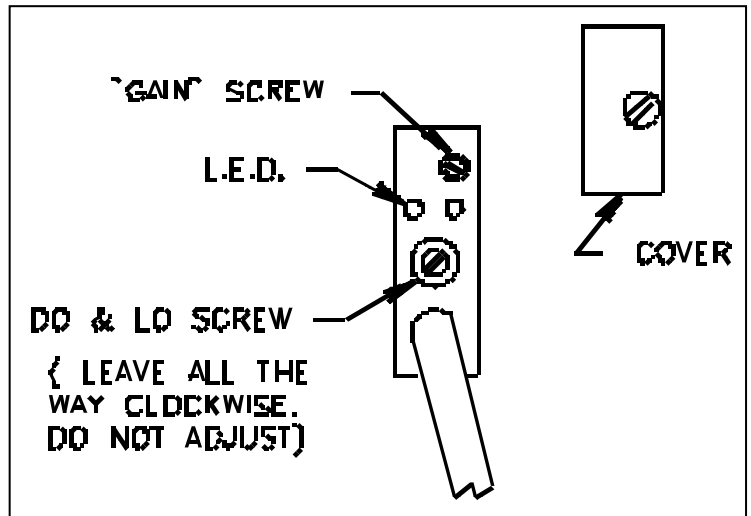
Contact AAC's sales department to order replacement parts.

Phone: 770-963-7369
 Fax: 770-963-7641
 Email: sales@atlatt.com
 Website: www.atlatt.com

Electric Eye Sensor Adjustment (If present)

To adjust the sensor, first 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 counter-clockwise 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. Cover the eye so that the sensor cannot see the reflective tape and the LED should go off.



Reflective Tape Maintenance

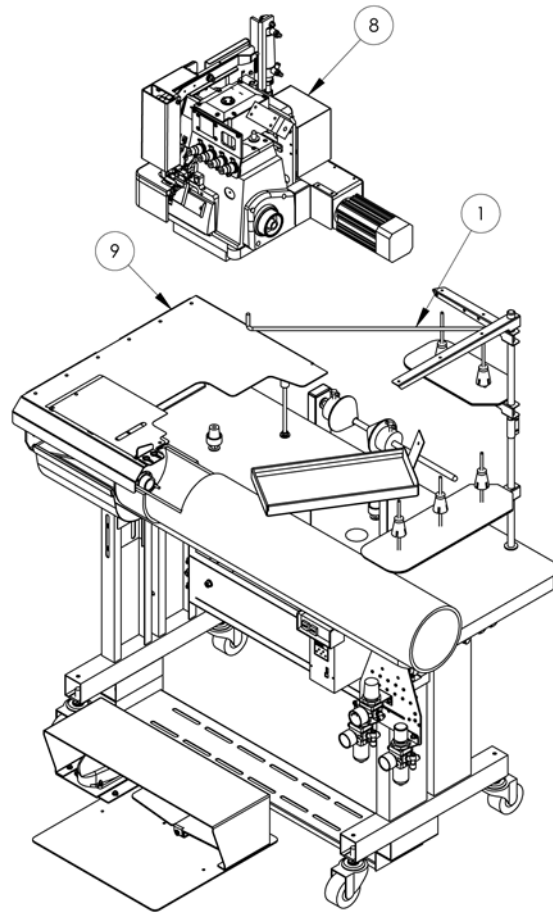
- Use a soft cloth for cleaning.
- Do not use chemicals or abrasives to clean it.
- Avoid any contact with oils and liquids.
- Do not touch the tape with bare fingers.
- If tape is dirty or opaque, the eye may not function correctly.

Assembly Drawings & Parts Lists

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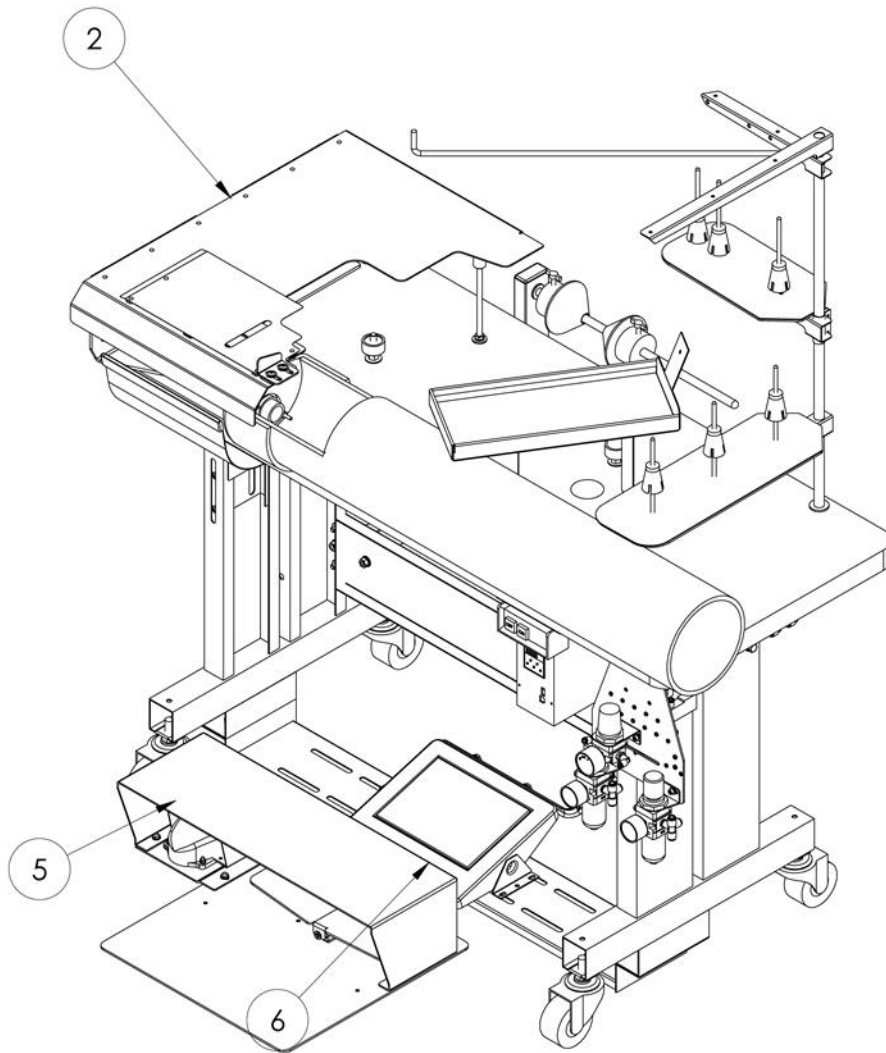
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11337HEHLJ28C Panel Flanger, High Lift

AAC Drawing Number 9005045 Rev 2

NO	QTY	PART #	DESCRIPTION
1	1	1278-8201	ROD,THREAD GUIDE EXTNSN
3	*1	1337H-PD	DIAGRAM,PNEUMATIC,HEJ28A
4	*1	1337H-WD	DIAGRAM, WIRING,HEJ28A
5	1	1337HE-WD	DIAGRAM, WIRING
6	1	1337HEC-PD	DIAGRAM, PNEUMATIC
7	*1	1337HESEWPAR	PARAMETER LIST
8	1	11337HSEHLJ28E	SEW HEAD, FLANGER, H.L.
9	1	1337884	GENERIC CONSOLE ASSY,HL

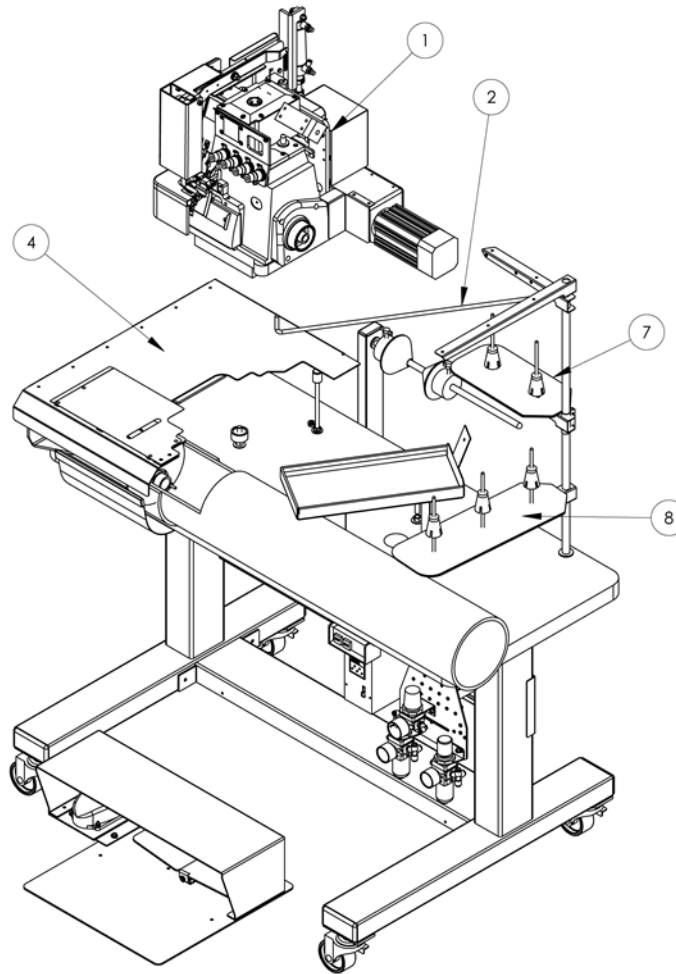


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11337HEHL28CSD Panel Flanger, High Lift, Sit Down

AAC Drawing Number 9004910 Rev 0

NO	QTY	PART #	DESCRIPTION
1	1	1337-LAB2	LABELS
2	1	1337H-1002	CONSOLE ASSY,HL PANEL FLN
3	1	1337HE-WD	DIAGRAM, WIRING
4	1	1337HEC-PD	DIAGRAM, PNEUMATIC
5	1	1961171	PEDAL MOUNT PLATE,W/GUARD
6	1	K-340	TREADLE W/BRACKETS

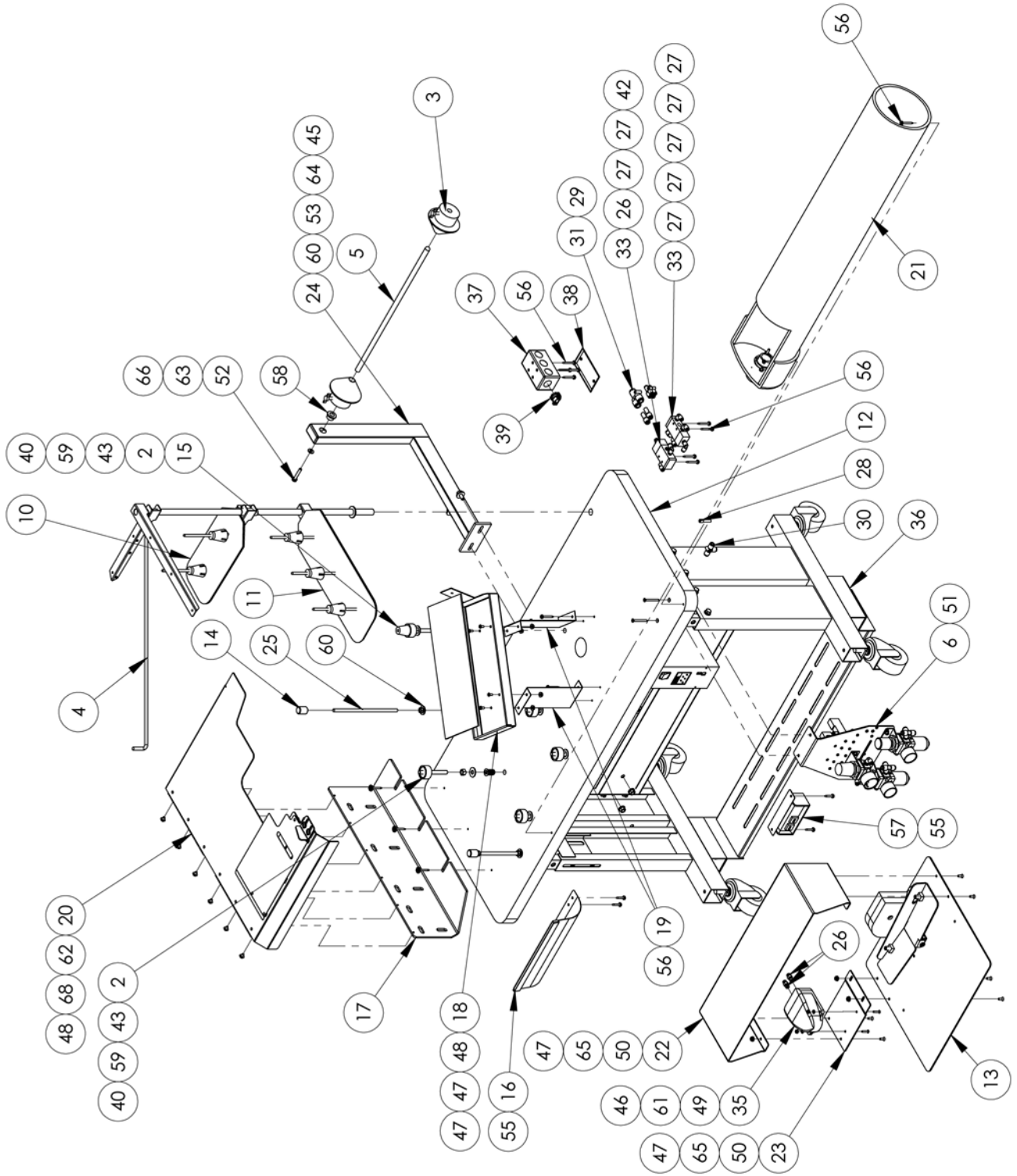


From the library of: Diamond Needle Corp

11337HEHLJ28ER Panel Flanger, High Lift, Ergo

AAC Drawing Number 9003757 Rev 2

NO	QTY	PART #	DESCRIPTION
1	1	11337HSEHLJ28E	SEW HEAD, FLANGER, H.L.
2	1	1278-8201	ROD,THREAD GUIDE EXTNSN
3	AR	1337-LAB2	LABELS
4	1	1337H-1002ER	CONSOLE ASSY,HL PANEL FLN
5	AR	1337HE-PD	DIAGRAM, PNEUMATIC
6	AR	1337HE-WD	DIAGRAM, WIRING
7	1	1959-112	2 POS THREAD PLATE ASSY
8	1	1959-161	3 POS THREAD PLATE ASSY.

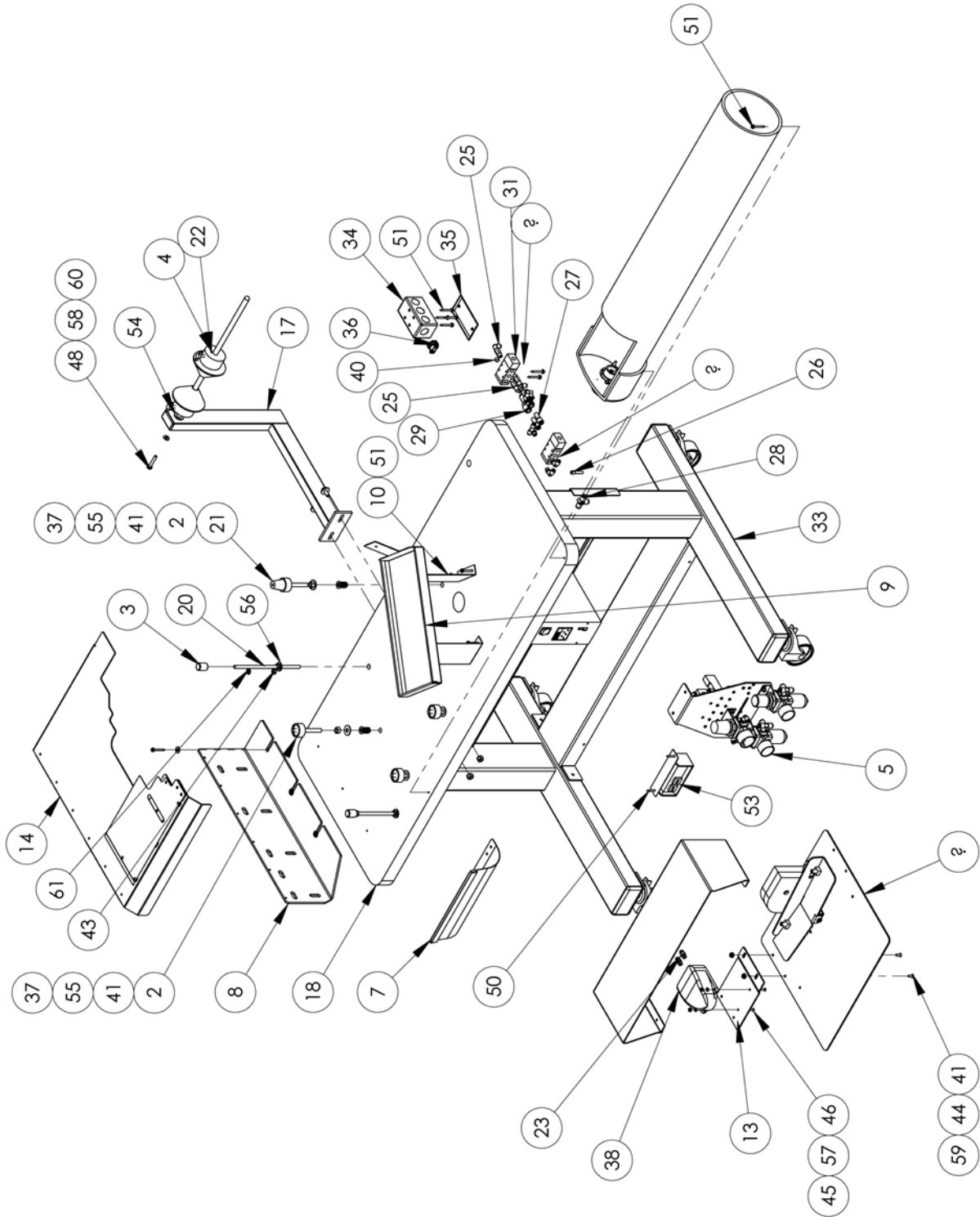


1337H-1002 Console Assembly, HL Panel Flanger

AAC Drawing Number 9003084 Rev 6

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	1	0211-701EA	CABLE,I/O,FL, SAFETY SW	35	1	K-3C30A2S	FOOT AIR SWITCH PURCHASED
2	5	0411-128B	ISOLATOR MOUNT ASSEMBLY	36	1	K-4DS	HD T LEG ADJ STAND SHORT
3	2	787-4A-032	CONE BEARING ASSY.	37	1	K-230	BOX,METAL, 2X4X2
4	1	1278-8201	ROD,THREAD GUIDE EXTNSN	38	1	K-231	COVER, 2X4
5	1	1335-816	ROD,SS, 1/2 X 15.0 L	39	2	K-235	CONNECTOR,ROMEX,1/2"
6	1	1337-1500A	PNEUMATIC PANEL, 3 REG.	40	5	K-340I-3/8	INSERT,LEG,1" LONG
7	*1	1337-LAB2	LABELS	41	1	MM132-1496	PLUG 1 X 2
8	*1	1337HE-WD	DIAGRAM, WIRING	42	1	MM4554K11	PLUG, 1/8" PIPE
9	*1	1337HEC-PD	DIAGRAM, PNEUMATIC	43	5	NNH3/8-16	NUT,HEX,3/8-16
10	1	1959-112	2 POS THREAD PLATE ASSY	44	5	NNJ5/16-24	NUT,JAM,5/16-24
11	1	1959-161	3 POS THREAD PLATE ASSY.	45	2	NNK5/16-18	NUT,KEP,5/16-18
12	1	4048-11337HSE	TABLE TOP 20X48,6900 JUKI	46	2	NNK8-32	NUT,KEP,8-32
13	1	4059-FP301D	FOOT PEDAL ASSY,EKFA	47	10	NNK10-32	KEP NUT, 10-32
14	2	11200A	BUMPER 5/16-24	48	10	SSBC98024	10-32 X 3/8 BUTTON CAP SC
15	1	51295A	ISOLATOR, MACHINE MOUNT	49	2	SSFC90048	8-32 X 3/4 FLAT AL CAP
16	1	1337140	MATERIAL DEFLECTOR	50	6	SSFC98032	10-32 X 1/2 FLAT ALLEN CAP
17	1	1337177	PLATE, CONNECTING, CONSOL	51	2	SSFC98112	#10-32 X 1-3/4 FLAT CAP
18	1	1337178	TOOL TRAY,1X6X14	52	1	SSHC01096	1/4-20 X 1-1/2 HHCS
19	2	1337180	MOUNT, TOOL TRAY	53	2	SSHCM8X20	SCREW,HEX CAP
20	1	1337187	FLANGER GUIDE ASS	54	1	SSZH#6096	SCREW,SHT.METAL HEX 6
21	1	1337189	WASTE CHUTE TUBE	55	4	SSZH#10064	SCREW,SHT.METAL HEX 10
22	1	1337224	COVER,FOOT PEDAL,UPPER	56	20	SSZH#10096	SCREW,SHT.METAL HEX 10, 1
23	1	1337225	BRKT,PEDAL	57	1	T75	ON/OFF 1PH SWITCH BOX, ONLY
24	1	1959335	ROLL HOLDER ARM	58	1	UUFF707-05	BEARING,BRONZE,.502ID
25	2	4400025	THREADED ROD, 5/16-24 X 8	59	5	WWF3/8	WASHER,FLAT,3/8 OR 10MM
26	3	AAQMC-5-8	QU. MALE CONN 5/32X1/8	60	10	WWF5/16	WASHER,FLAT,5/16
27	7	AAQME-5-8	QUICK MALE ELBOW	61	2	WWF8	WASHER, FLAT, #8
28	1	AAQPP-07	QUICK PLUG 1/4	62	10	WWF10	WASHER, FLAT, #10, COM
29	2	AAQPR-3-4	QUICK REDUCER 3/8-1/4	63	4	WWFS1/4	WASHER,FLAT,SAE,1/4
30	2	AAQUT-4-4	QUICK UNION T 1/4X1/4	64	2	WWFS5/16	WASHER,FLAT,SAE,5/16
31	1	AAQUY-3-3	QUICK UNION Y,3/8X3/8	65	6	WWFS10	WASHER, FLAT, #10, SAE
32	2	AAQUY-5-5	QUICK UNION Y, 5/32	66	1	WWL1/4	WASHER,LOCK, 1/4
33	2	AAV125B	PILOT VALVE	67	7	WWL5/16	WASHER,LOCK, 5/16
34	1	FFHBL4579C	RECEPTACLE,3 POLE,3W	68	6	WWL10	WASHER,LOCK,#10

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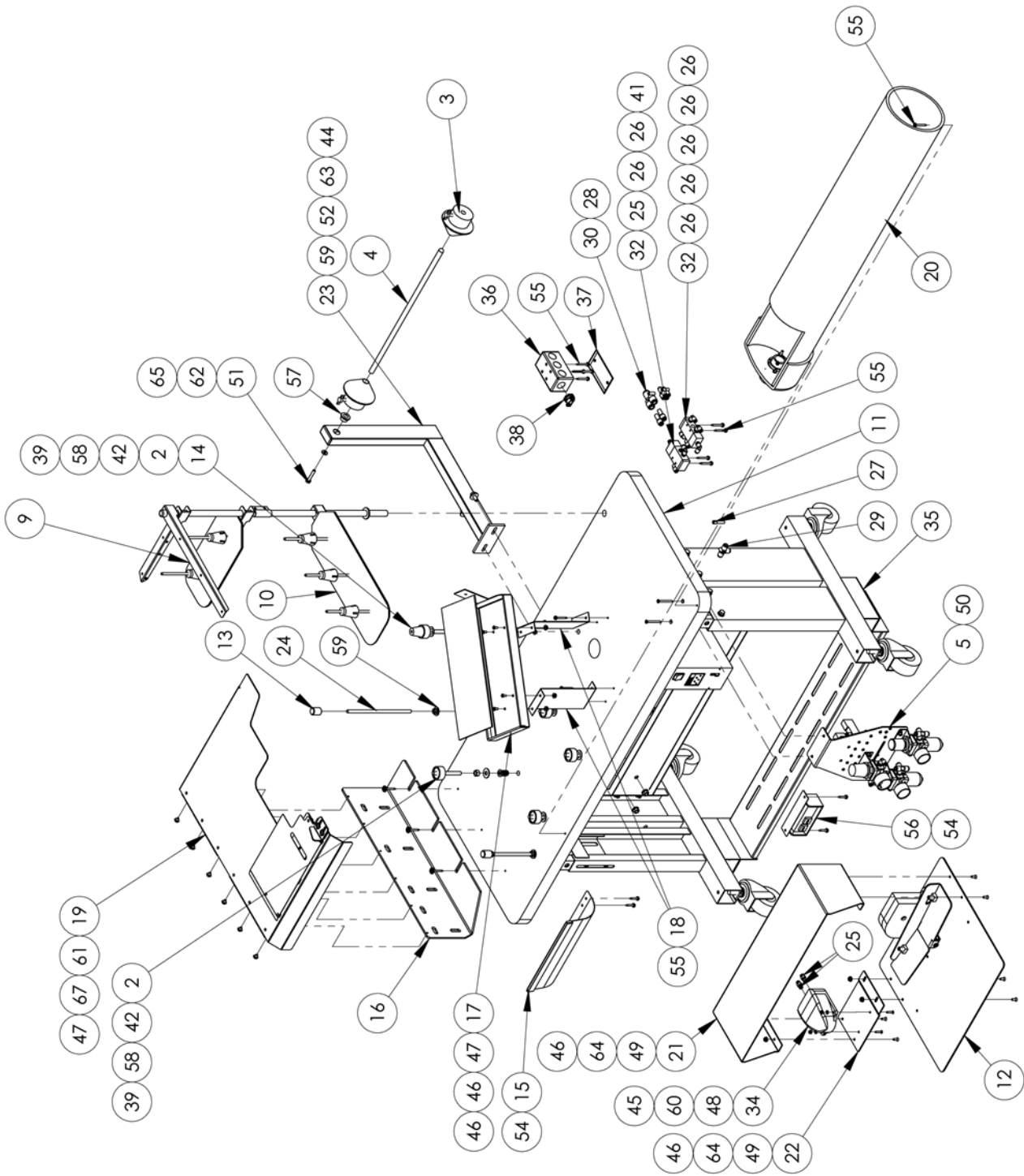


1337H-1002ER Console Assembly, HL Panel Flanger,Ergo

AAC Drawing Number 9003756 Rev 1

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	1	0211-701EA	CABLE,I/O,FL, SAFETY SW	32	1	FFHBL4579C	RECEPTACLE,3 POLE,3W
2	5	0411-128B	ISOLATOR MOUNT ASSEMBLY	33	1	K-2000	STAND,ERGO LIFT
3	2	11200A	BUMPER 5/16-24	34	1	K-230	BOX,METAL, 2X4X2
4	1	1335-816	ROD,SS, 1/2 X 15.0 L	35	1	K-231	COVER, 2X4
5	1	1337-1500A	PNEUMATIC PANEL, 3 REG.	36	2	K-235	CONNECTOR,ROMEX,1/2"
6	*AR	1337-LAB2	LABELS	37	5	K-340I-3/8	INSERT,LEG,1" LONG
7	1	1337140	MATERIAL DEFLECTOR	38	1	K-3C30A2S	FOOT AIR SWITCH PURCHASED
8	1	1337177	PLATE, CONNECTING, CONSOL	39	1	MM132-1496	PLUG 1 X 2
9	1	1337178	TOOL TRAY,1X6X14	40	1	MM4554K11	PLUG, 1/8" PIPE
10	2	1337180	MOUNT, TOOL TRAY	41	5	NNH3/8-16	NUT,HEX,3/8-16
11	1	1337189	WASTE CHUTE TUBE	42	2	NNHM8X1.25	M8 X 1.25 HEX NUT
12	1	1337224	COVER,FOOT PEDAL,UPPER	43	6	NNJ5/16-24	NUT,JAM,5/16-24
13	1	1337225	BRKT,PEDAL	44	2	NNK10-32	KEP NUT, 10-32
14	1	1337375	FLANG GUIDE ASBLY	45	2	NNK8-32	NUT,KEP,8-32
15	1	1337HE-PD	DIAGRAM, PNEUMATIC	46	2	SSFC90048	8-32 X 3/4 FLAT AL CAP
16	1	1337HE-WD	DIAGRAM, WIRING	41	2	SSFC98032	10-32 X 1/2 FLAT ALLEN CAP
17	1	1959335	ROLL HOLDER ARM	48	1	SSHCO1096	1/4-20 X 1-1/2 HHCS
18	1	4048-11337HSE	TABLE TOP 20X48,6900 JUKI	49	2	SSHCM8X20	SCREW,HEX CAP
19	1	4059-FP301D	FOOT PEDAL ASSY,EKFA	50	4	SSZH#10064	SCREW,SHT.METAL HEX 10
20	2	4400025	THREADED ROD, 5/16-24 X 8	51	18	SSZH#10096	SCREW,SHT.METAL HEX 10, 1
21	1	51295A	ISOLATOR, MACHINE MOUNT	52	1	SSZH#6096	SCREW,SHT.METAL HEX 6
22	2	787-4A-032	CONE BEARING ASSY.	53	1	T75	ON/OFF 1PH SWITCH BOX, ONLY
23	2	AAQMC-5-8	QU. MALE CONN 5/32X1/8	54	1	UUFF707-05	BEARING,BRONZE,.502ID
24	5	AAQME-5-8	QUICK MALE ELBOW	55	5	WWF3/8	WASHER,FLAT,3/8 OR 10MM
25	3	AAQMEL-5-8	QUICK MALE ELBOW, LONG	56	10	WWF5/16	WASHER,FLAT,5/16
26	1	AAQPP-07	QUICK PLUG 1/4	57	2	WWF8	WASHER, FLAT, #8
27	2	AAQPR-3-4	QUICK REDUCER 3/8-1/4	58	4	WWF5/16	WASHER,FLAT,SAE,1/4
28	2	AAQUT-4-4	QUICK UNION T 1/4X1/4	59	2	WWF5/16	WASHER, FLAT, #10, SAE
29	1	AAQUY-3-3	QUICK UNION Y,3/8X3/8	60	1	WWL1/4	WASHER,LOCK, 1/4
30	2	AAQUY-5-5	QUICK UNION Y, 5/32	61	6	WWL5/16	WASHER,LOCK, 5/16
31	2	AAV125B	PILOT VALVE	62	2	WWLM8	M8 LOCK WASHER

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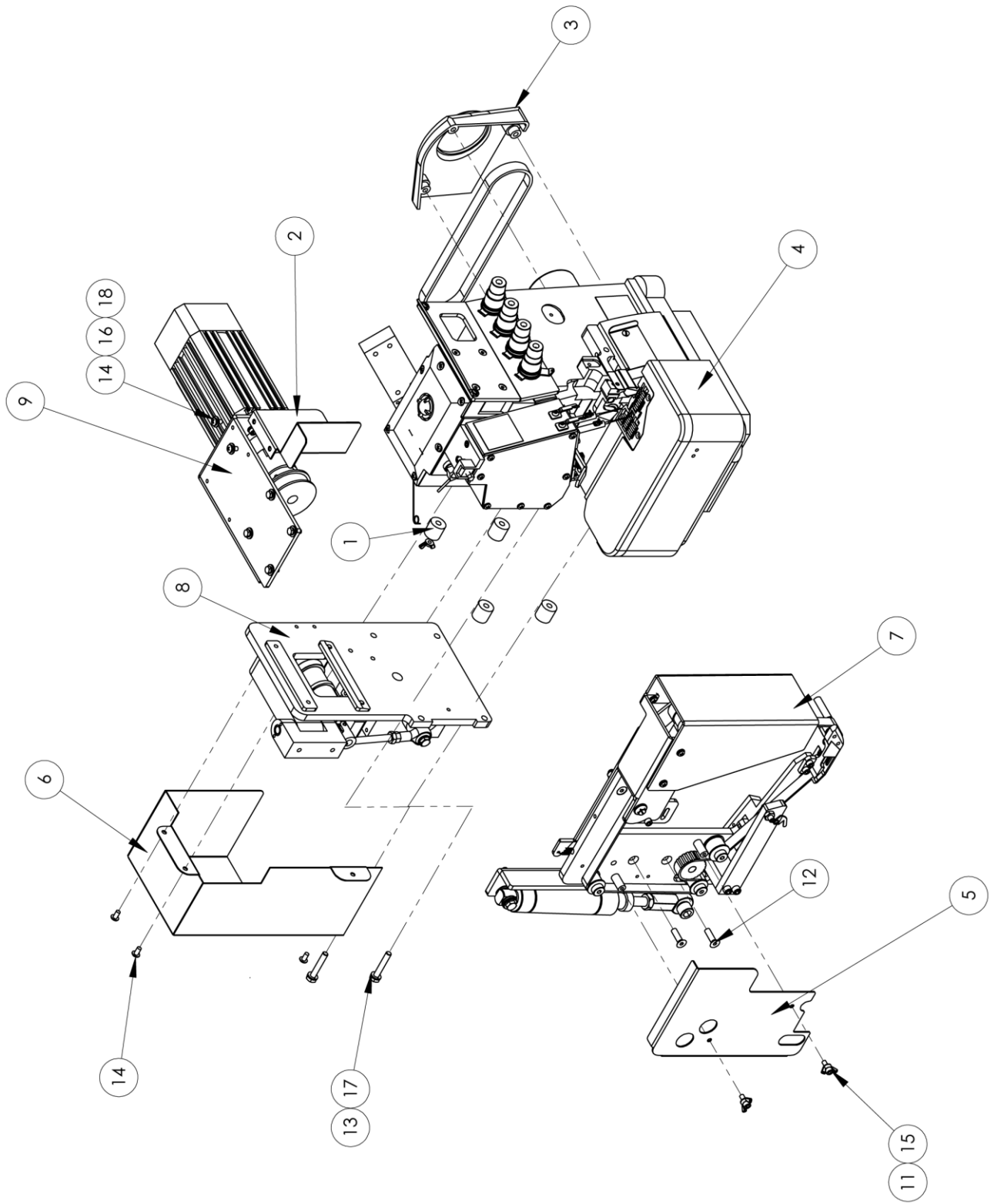


1337884 Generic Console Assembly, HL

AAC Drawing Number 1337884 Rev 1

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	1	0211-701EA	CABLE, I/O, FL, SAFETY SW	35	1	K-4DS	HD T LEG ADJ STAND SHORT
2	5	0411-128B	ISOLATOR MOUNT ASSEMBLY	36	1	K-230	BOX, METAL, 2X4X2
3	2	787-4A-032	CONE BEARING ASSY.	37	1	K-231	COVER, 2X4
4	1	1335-816	ROD, SS, 1/2 X 15.0 L	38	2	K-235	CONNECTOR, ROMEX, 1/2"
5	1	1337-1500A	PNEUMATIC PANEL, 3 REG.	39	5	K-340I-3/8	INSERT, LEG, 1" LONG
6	*1	1337-LAB2	LABELS	40	1	MM132-1496	PLUG 1 X 2
7	*1	1337HE-WD	DIAGRAM, WIRING	41	1	MM4554K11	PLUG, 1/8" PIPE
8	*1	1337HEC-PD	DIAGRAM, PNEUMATIC	42	5	NNH3/8-16	NUT, HEX, 3/8-16
9	1	1959-112	2 POS THREAD PLATE ASSY	43	5	NNJ5/16-24	NUT, JAM, 5/16-24
10	1	1959-161	3 POS THREAD PLATE ASSY.	44	2	NNK5/16-18	NUT, KEP, 5/16-18
11	1	4048-11337HSE	TABLE TOP 20X48, 6900 JUKI	45	2	NNK8-32	NUT, KEP, 8-32
12	1	4059-FP301D	FOOT PEDAL ASSY, EFKA	46	10	NNK10-32	KEP NUT, 10-32
13	2	11200A	BUMPER 5/16-24	47	10	SSBC98024	10-32 X 3/8 BUTTON CAP SC
14	1	51295A	ISOLATOR, MACHINE MOUNT	48	2	SSFC90048	8-32 X 3/4 FLAT AL CAP
15	1	1337140	MATERIAL DEFLECTOR	49	6	SSFC98032	10-32 X 1/2 FLAT ALLEN CAP
16	1	1337177	PLATE, CONNECTING, CONSOL	50	2	SSFC98112	# 10-32 X 1-3/4 FLAT CAP
17	1	1337178	TOOL TRAY, 1X6X14	51	1	SSHCO1096	1/4-20 X 1-1/2 HHCS
18	2	1337180	MOUNT, TOOL TRAY	52	2	SSHCM8X20	SCREW, HEX CAP
19	1	1337187	FLANGER GUIDE ASS	53	1	SSZH#6096	SCREW, SHT. METAL HEX 6
20	1	1337189	WASTE CHUTE TUBE	54	4	SSZH#10064	SCREW, SHT. METAL HEX 10
21	1	1337224	COVER, FOOT PEDAL, UPPER	55	20	SSZH#10096	SCREW, SHT. METAL HEX 10, 1
22	1	1337225	BRKT, PEDAL	56	1	T75	ON/OFF 1PH SWITCH BOX,
23	1	1959335	ROLL HOLDER ARM	57	1	UUFF707-05	BEARING, BRONZE, .502ID
24	2	4400025	THREADED ROD, 5/16-24 X 8	58	5	WWF3/8	WASHER, FLAT, 3/8 OR 10MM
25	3	AAQMC-5-8	QU. MALE CONN 5/32X1/8	59	10	WWF5/16	WASHER, FLAT, 5/16
26	7	AAQME-5-8	QUICK MALE ELBOW	60	2	WWF8	WASHER, FLAT, #8
27	1	AAQPP-07	QUICK PLUG 1/4	61	10	WWF10	WASHER, FLAT, #10, COM
28	2	AAQPR-3-4	QUICK REDUCER 3/8-1/4	62	4	WWFS1/4	WASHER, FLAT, SAE, 1/4
29	2	AAQUT-4-4	QUICK UNION T 1/4X1/4	63	2	WWFS5/16	WASHER, FLAT, SAE, 5/16
30	1	AAQUY-3-3	QUICK UNION Y, 3/8X3/8	64	6	WWFS10	WASHER, FLAT, #10, SAE
31	2	AAQUY-5-5	QUICK UNION Y, 5/32	65	1	WWL1/4	WASHER, LOCK, 1/4
32	2	AAV125B	PILOT VALVE	66	7	WWL5/16	WASHER, LOCK, 5/16
33	1	FFHBL4579C	RECEPTACLE, 3 POLE, 3W	67	6	WWL10	WASHER, LOCK, #10
34	1	K-3C30A2S	FOOT AIR SWITCH PURCHASED				

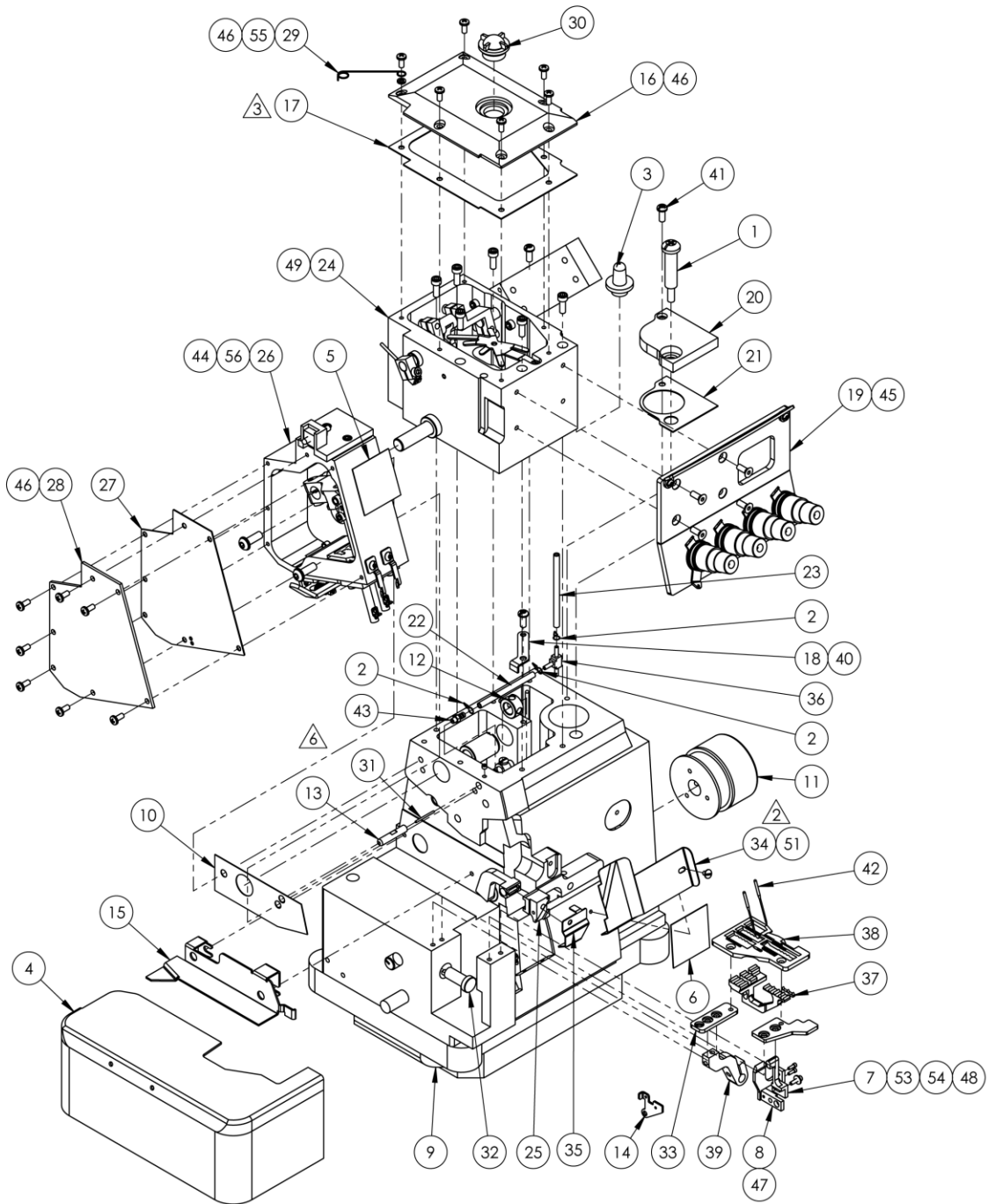
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11337HSEHLJ28E Sew Head Assembly

AAC Drawing Number 9005601 Rev1

NO	QTY	PART #	DESCRIPTION
1	4	1337306	SPACER,3/4OD,1/4ID,3/4L
2	1	1337369	GUARD, BELT, REAR
3	1	1337370	BELT COVER, JUKI 6916
4	1	1337595	SEWING HEAD ASSEMBLY
5	1	1337598	BELT COVER
6	1	1337602	GUARD,BELT DRIVE,LONG
7	1	1337605	BELT FEED ASSY
8	1	1337610	DRIVE ASSY,HD, LONG
9	1	1337624	DRIVE MOTOR ASSY
10	1	GG210L050	BELT, 3/8P, 56T, 1/2W
11	3	NNW10-32	#10-32 WING NUT
12	2	SSFC01056	1/4-20 X 7/8 FLAT CAP
13	4	SSHC01096	1/4-20 X 1-1/2 HHCS
14	5	SSPP98024	10-32 X 3/8 PAN HD PHILIP
15	2	SSSC98032	10-32X1/2, SOC CAP
16	2	WWF10	WASHER, FLAT, #10, COM
17	4	WWL1/4	WASHER,LOCK, 1/4
18	2	WWL10	WASHER,LOCK,#10

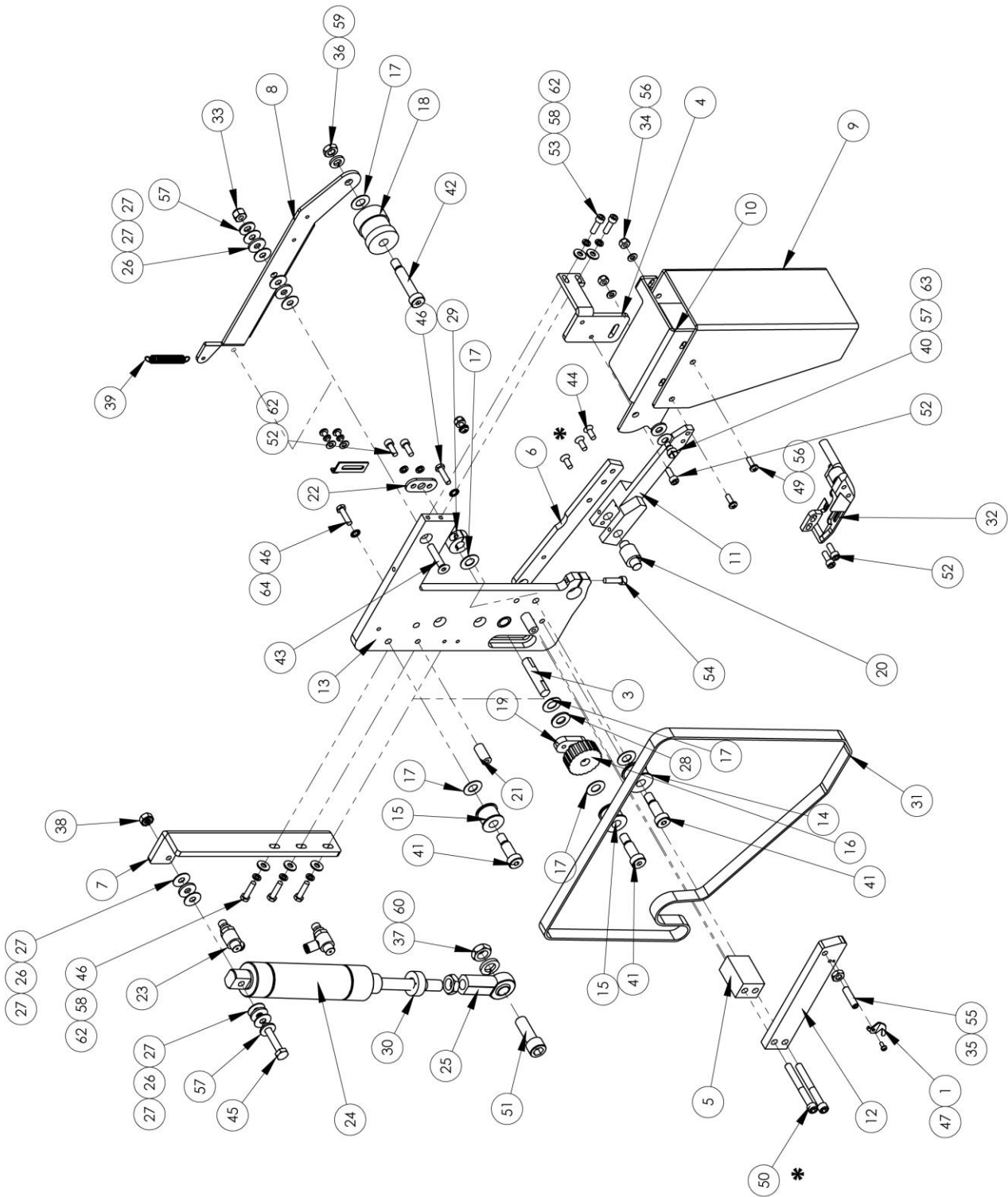


1337595 Sew Head Sub Assembly

ACC Drawing Number 1337595 Rev.4

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	*AR	13104500	OIL DRAIN SCREW	29	1	1337644	THREAD GUIDE
2	4	13142609	OIL TUBE HOLDER	30	*AR	22924708	OIL SIGHT GLASS
3	*AR	13143300	OIL GAUGE	31	1	32825-G	WICK, OIL PACKING, 300UX5
4	1	1318376	PLATE,CLOTH MOD.	32	1	49001	STUD,PUSH BUTTON,MOD
5	AR	1337-LAB1	LABEL, S/S THREADING	33	1	49005	REAR THROAT PLATE MT.
6	AR	1337-LAB4	LABEL, NEEDLE SIZE	34	1	49065	CHIP DEFLECTOR
7	1	1337001	FRONT NEEDLE GUARD	35	1	1318378	TRIM DEFLECTOR, 1337HL
8	1	1337002	REAR NEEDLE GUARD	36	1	7267	TEE CONNECTOR,BARB,3MM
9	1	1337255	CASTING, MODIFIED, 6916G	37	1	M2J28-006	MAIN FEED DOG
10	1	1337257	SHIM, NDL DRIVE ASBLY	38	1	M3J28-003	PLATE, THROAT, 3/4 GA,
11	1	1337278	HAND KNOB PULLEY ASSY	39	1	M5J28-001	LOOPER HOLDER,3/4 GA.
12	1	1337310	THRUST COLLAR, MODIFIED	40	*AR	SM4050855SP	M5X8 PAN SLOTTED
13	1	1337341	OIL INJECTOR	41	*AR	SM4051255SP	M5X12 PAN SLOTTED
14	1	1337373	THREAD GUIDE, MODIFIED	42	2	SNTVX722-140GB	NEEDLE,SIZE 140/22
15	1	1337374	SIDE COVER, MODIFIED	43	1	SQ1110451MZ	FITTING,OIL JET
16	1	1337389	COVER, LIFT LINK BOX	44	2	SSBC01048	SCREW,BUTTON CAP,1/4-20X3/4
17	1	1337391	GASKET, LIFT LINK BOX	45	4	SSFC98032	10-32 X 1/2 FLAT ALLEN CAP
18	1	1337397	OIL GUAGE GUIDE	46	13	SSPP90024	8-32X3/8 PAN PHLPS
19	1	1337403	PLATE,THREAD TENS. MOUNT	47	2	SSSC50016	2-56 X 1/4 SOCKET CAP
20	1	1337404	COVER,OIL FILTER	48	1	SSSC70024	4-40 X 3/8 SOCKET CAP
21	1	1337405	GASKET MOD,OIL FILTER	49	6	SSSCM5X14	SCREW,SOC CAP,M5-0.8 X 14
22	1	1337411	TUBE, OIL, 2.62" LONG	50	1	SSSS90008	8-32X1/8 SET SCREW
23	1	1337412	TUBE, OIL, 4.88" LONG	51	1	SSTS85012	6-40 X 3/16 TRUSS HEAD
24	1	1337465	NEEDLE LIFT ASBLY	52	2	WWF2	WASHER, FLAT, #2
25	1	1337486	MODIFICATION, KNIFE SUP.	53	1	WWF4	WASHER, FLAT, #4
26	1	1337596	NEEDLE BAR DRIVE ASBLY	54	1	WWL4	WASHER,LOCK,#4
27	1	1337599	GASKET,NEEDLE BAR DRIVE	55	1	WWL8	WASHER,LOCK,#8
28	1	1337601	COVER,NEEDLE BAR DRIVE	56	2	WWSI1/4	WASHER,INTERNAL TOOTH,1/4

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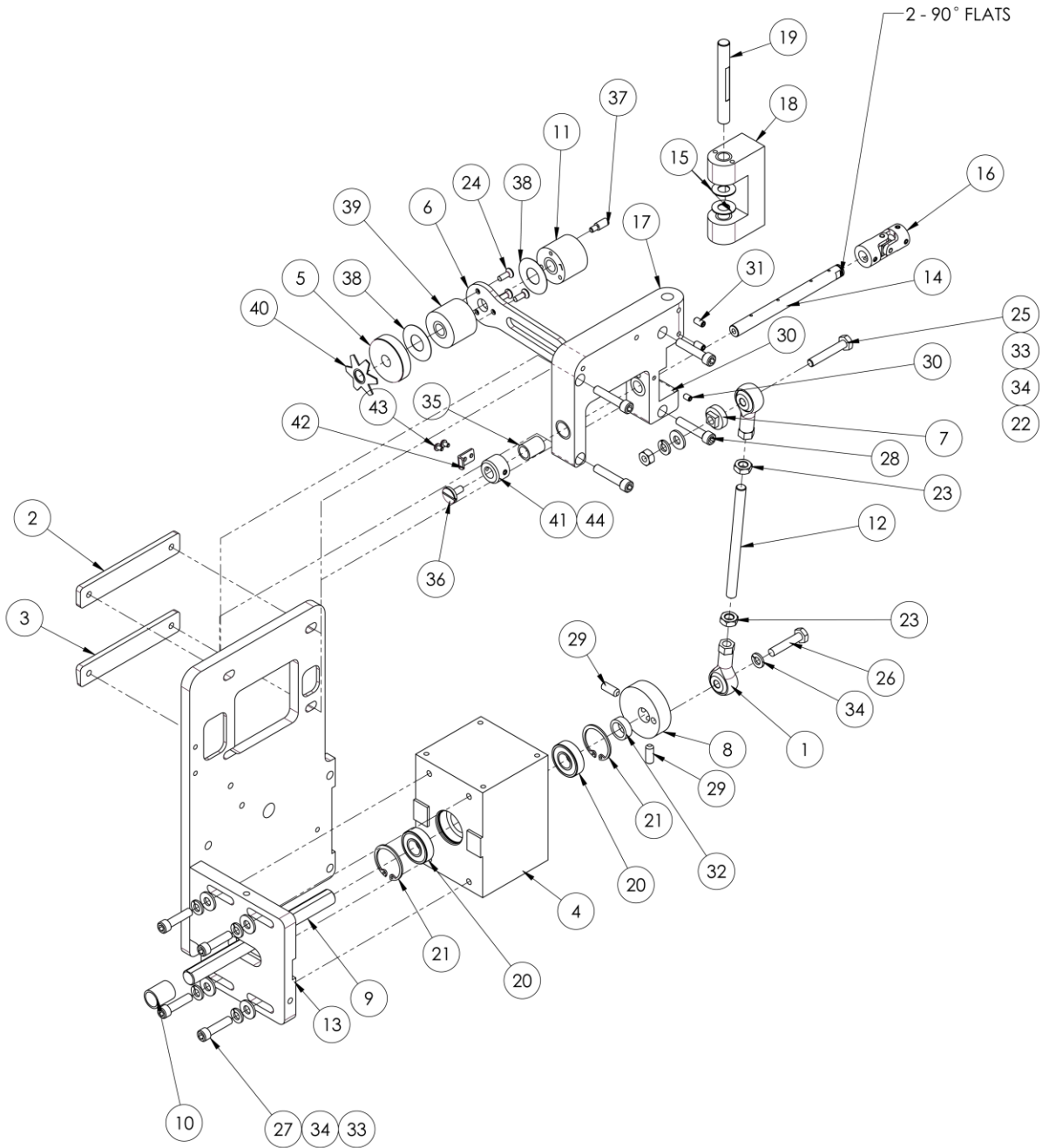


1337605 Belt Feed Assembly

AAC Drawing Number 1337605 Rev 0

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	1	13116702	THREAD TRIMMER	33	1	NNE1/4-20	NUT,ELASTIC LOCK,1/4-20
2	1	1325-39C	SPRING CLIP	34	3	NNE8-32	NUT,ELASTIC LOCK, 8-32
3	1	1337302	SHAFT,DRIVE,.375X1.75L	35	1	NNJ1/4-28	NUT, HEX, JAM, 1/4-28
4	1	1337325	TOP SUPPORT LATCH BKT	36	1	NNJ5/16-18	NUT,JAM,5/16-18
5	1	1337467	SPACER, LATCH	37	1	NNJ7/16-20	NUT,JAM,7/16-20
6	1	1337579	ARM,FOOTLIFT,LONG	38	1	NNK1/4-20	NUT,KEP,1/4-20
7	1	1337582	MOUNT,FOOTLIFT CYL,1-*1/4	39	1	RRLE049D9	SPRING,EXT,.049X.375X2.5
8	1	1337592	ARM,BELT TENSION	40	1	SSAS016012	SHOULDER BOLT, 1/4 X 3/16
9	1	1337593	GUARD,BELT	41	3	SSAS024048	SHOULDER BOLT,3/8X3/4X5/16-
10	1	1337594	BRKT,GUARD,BELT	42	1	SSAS024096	SHULDER BOLT 3/8 X 1.50L
11	1	1337603	BLOCK,PRESSER ARM PIVOT	43	1	SSFC01080	1/4-20 X 1-1/4 FLAT CAP
12	1	1337604	LATCH ARM.LONG	44	3	SSFC98032	10-32 X 1/2 FLAT ALLEN CAP
13	1	1337606	MOUNT,MAIN,HD	45	1	SSHC01096	1/4-20 X 1-1/2 HHCS
14	1	1342Z-201A	ROLLER,DELIN, TOP BELT FD	46	5	SSHC98048	SCREW, HEX CAP #10-32X.75
15	2	1342Z-201B	ROLLER,DELIN, TOP BELT FD	47	1	SSPP70016	4-40 X 1/4 PAN HD PHILLIP
16	1	311-3004	PULLEY,GEAR,1/5 PITCH	48	2	SSPP90024	8-32X3/8 PAN PHLPS
17	6	3517	WASHER,THRUST,BRONZE	49	3	SSPP90032	SCREW,8-32 PAN HD PHIL
18	1	49023A	ROLLER,FRONT	50	2	SSSC01144	1/4-20 X 2.5 SOC CAP
19	1	49031	SPACER,IDLER ROLLER	51	1	SSSC40080	7/16-20 X 1-1/4 SOC CAP
20	1	49035A	PIVOT SHAFT & SLEEVE	52	5	SSSC98032	10-32X1/2, SOC CAP
21	2	49038A	BELT COVER SPACER	53	2	SSSC98040	10-32 X 5/8 SOC CAP
22	1	49049	PLATE,WASHER	54	1	SSSC98048	10-32 X 3/4 SOC CAP
23	2	AA198RA508	FLOW CONTROL,5/32 X 1/8"	55	1	SSSS05064	SET SCREW 1/4-28X1
24	1	AACM122DP	CYLINDER,AIR,DA W/MAGNET	56	8	WWF8	WASHER, FLAT, #8
25	1	BBAW-7	BEARING,ROD END,FEMALE	57	3	WWFS1/4	WASHER,FLAT,SAE,1/4
26	4	BBNTA411	BEARING,THRUST,.250B	58	5	WWFS10	WASHER, FLAT, #10, SAE
27	8	BBTRA411	WASHER,THRUST,STEEL	59	1	WWL5/16	WASHER,LOCK, 5/16
28	1	BBT710-01	WASHER, THRUST, BRNZ.	60	1	WWL7/16	WASHER,LOCK,7/16
29	1	CCCL6F	CLAMP COLLAR- 3/8	61	2	WWL8	WASHER,LOCK,#8
30	1	CCSCL7F	CLAMP COLLAR- 7/16	62	7	WWL10	WASHER,LOCK,#10
31	1	GG414XL050UK	BELT,GEAR,KEVLAR CORE,URE	63	1	WWS307-1	WASHER,SPRING,BELVEL
32	1	M1J28-006	FOOT ASBLY, TBF, 3/4 GA	64	2	WWSI10	WASHER,INTERNAL TOOTH,10

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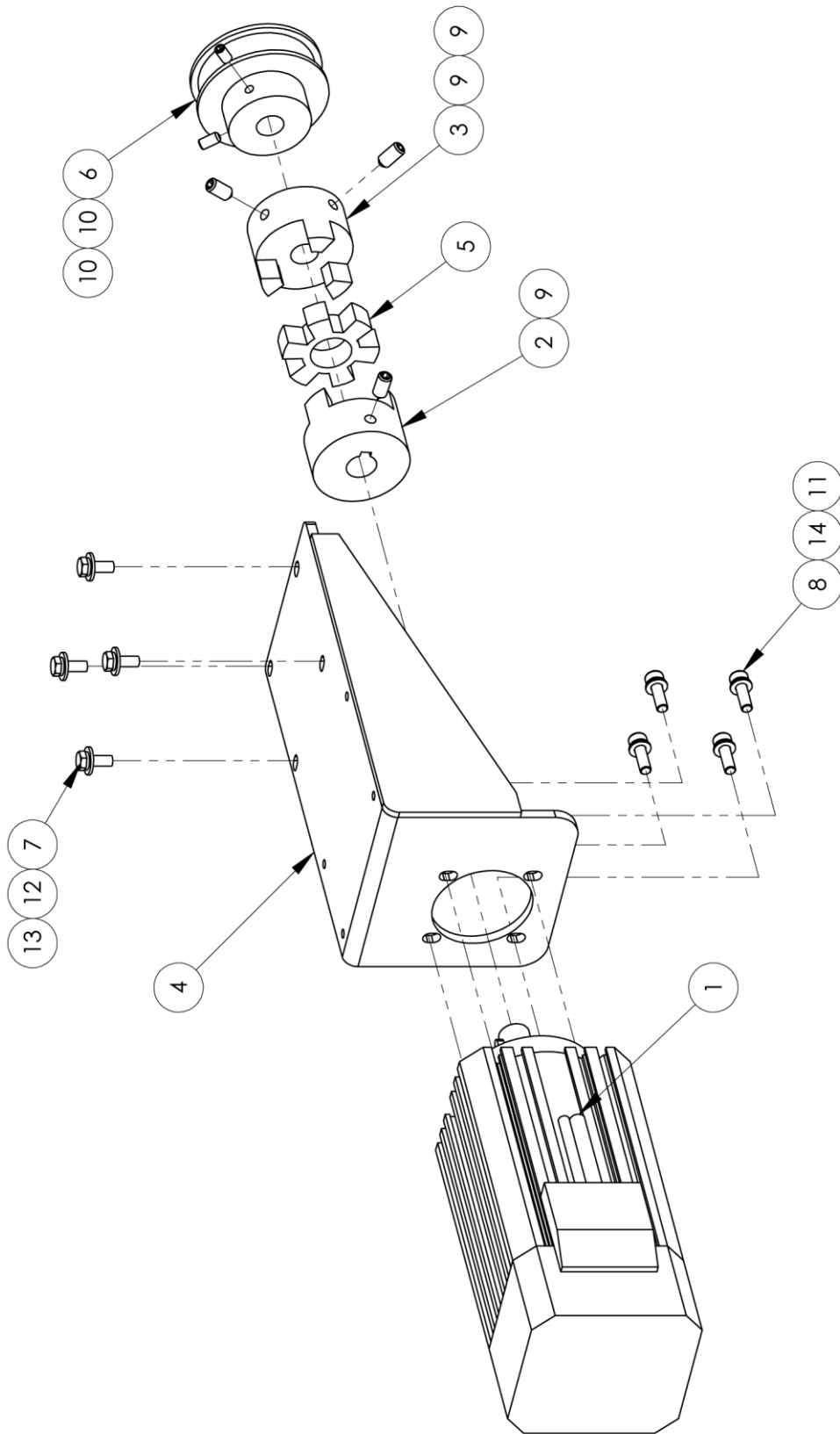


1337610 Drive Assembly, HD, Long

AAC Drawing Number 1337610 Rev 2

NO	QTY	PART #	DESCRIPTION
1	2	1325-12	DRIVE ARM CONN W/BEARING
2	1	1337264	PLATE, NUT, 2 PL,3.63 CT
3	1	1337265	PLATE,NUT,1/4-20,ANGLED
4	1	1337269	BEARING BLOCK
5	1	1337270	SPACER,CLUTCH BEARING
6	1	1337271	CRANK ARM,CLUTCH BEARING
7	1	1337272	STUD,TIE ROD MOUNT
8	1	1337273	ECCENTRIC HUB
9	1	1337274	DRIVE SHAFT
10	1	1337346	SPACER, DRIVE SHAFT
11	1	1337347	CLUTCH SLEEVE,MOD.,LEFT
12	1	1337607	THREADED ROD,5/16-24 THD
13	1	1337609	BRACKET,WELDMENT,LONG
14	1	3501270A	CLUTCH DRIVING SHAFT
15	2	3517	WASHER,THRUST,BRONZE
16	1	3524-02M	3/8" X 10MM U JOINT
17	1	49012A	BLOCK,TRANSFER,ASSY
18	1	49014B	BLOCK,PIVOT,ASSY
19	1	49015A	PIVOT SHAFT
20	2	BB1L005	BEARING,BALL,.500D
21	2	MM98409A221	RETAINING RING,INT,1.125B
22	1	NNH1/4-20	NUT,HEX,1/4-20
23	2	NNJ5/16-24	NUT,JAM,5/16-24
24	3	SSFCM4X12	SCREW,FLAT ALLEN CAP
25	1	SSHCO1096	1/4-20 X 1-1/2 HHCS
26	1	SSHCO5080	1/4-28 X 1-1/4 HEX CAP
27	4	SSSC01064	1/4-20 X 1 SOC CAP
28	4	SSSC01080	1/4-20 X 1-1/4 SOC CAP
29	2	SSSS01032	SCREW, SET, 1/4-20 X 1/2
30	1	SSSS90016	#8-32 X 1/4 SET SCREW
31	2	SSSS98024	10-32X 3/8 SOC SET SC
32	1	UUAA618-16	BEARING,BRONZE,.504 ID
33	5	WWFS1/4	WASHER,FLAT,SAE,1/4
34	6	WWL1/4	WASHER,LOCK, 1/4
35	AR	65421	CLUTCH TENSION SLEEVE
36	AR	110097	SCREW,M5-0.8X12
37	AR	180005	SCREW,M4-0.7X6
38	AR	3501272	THRUST PLATE
39	AR	3501276	CLUTCH SLEEVE (RIGHT)
40	AR	3501282	CLUTCH TENSION SPRING
41	AR	3501283	ADJUSTING COLLAR
42	AR	3501284	ADJUSTING SCREW STAY
43	AR	SSPSM3X5	M3-0.5 x 5MM
44	AR	SSSSM5X5	M5 X 5 SET SC,CUP PT

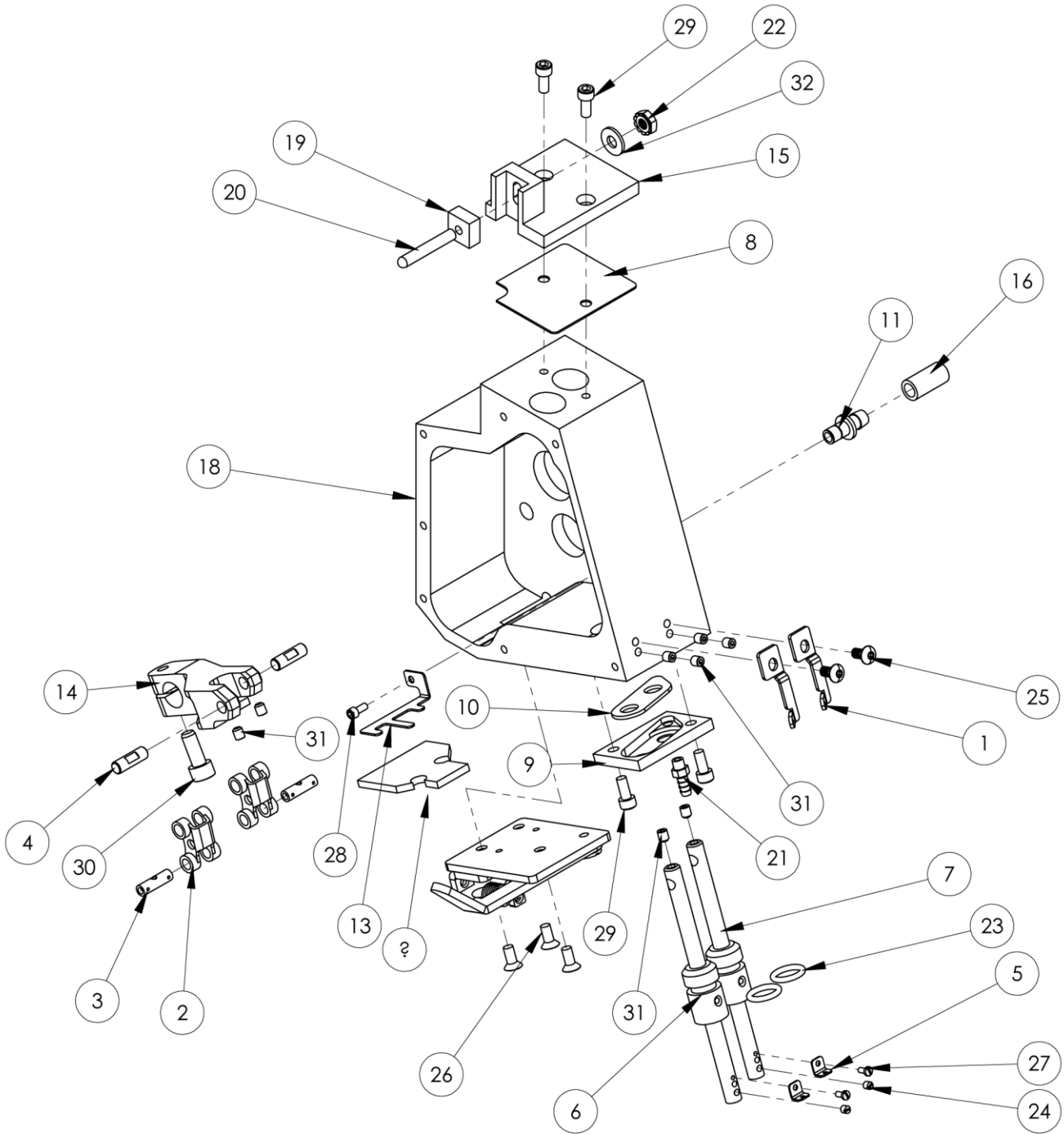
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1337624 Drive Motor Assembly

AAC drawing Number 1337624 Rev 0

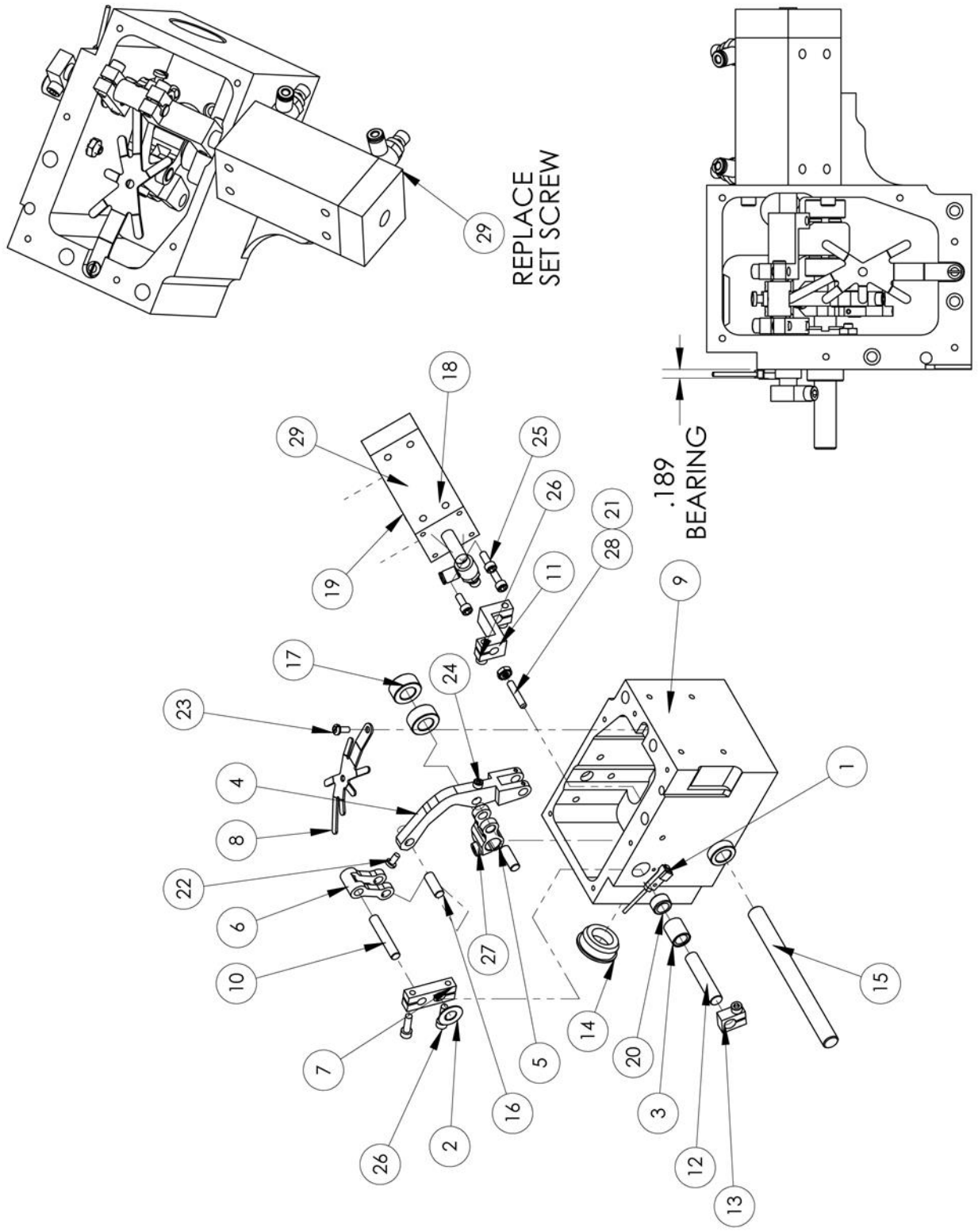
NO	QTY	PART #	DESCRIPTION
1	1	4059-DC50	MOTOR, LOW SPD, HIGH TORQ
2	1	1337191	COUPLING,14MM BORE,W/KEY
3	1	1337279	COUPLING,,500 BORE
4	1	1337286	MOTOR MTG BRACKET,WELD
5	1	MML075B	SPIDER,BUNA-N
6	1	PP18LB050M	PULLEY,GEAR,3/8P,,50B,18T
7	4	SSHC98032	10-32X1/2 HEX HD
8	4	SSSCM5X16	M5-0.8 X 16,SOC CAP SCR
9	3	SSSS01032	SCREW, SET, 1/4-20 X 1/2
10	2	SSSS98024	10-32X 3/8 SOC SET SC
11	4	WWFM5	WASHER, FLAT, M5 I.D.
12	4	WWFS10	WASHER, FLAT, #10, SAE
13	4	WWL10	WASHER,LOCK,#10
14	4	WWLM5	M5 LOCK WASHER



1337596 Needle Bar Drive Assembly

AAC Drawing Number 1337596 Rev 1

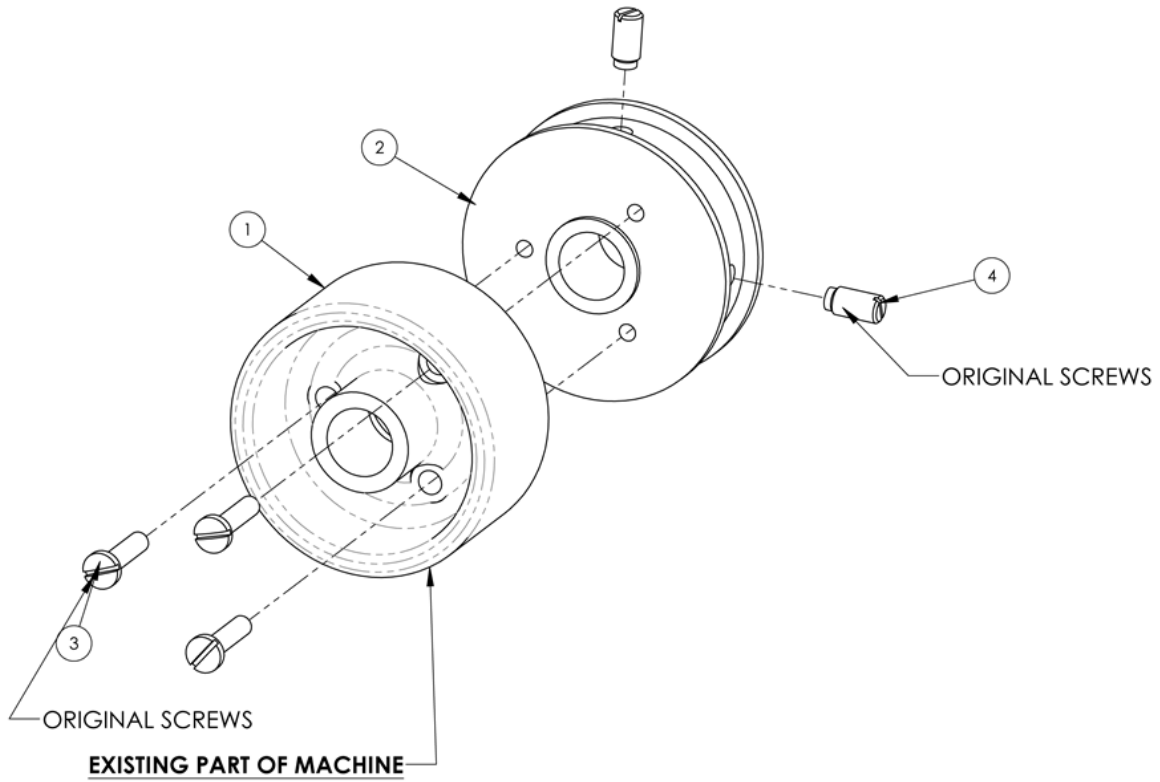
NO	QTY	PART #	DESCRIPTION
1	2	12372405	THREAD EYELET
2	2	13208004	NEEDLE DRIVING LINK
3	2	13209507	NEEDLE DRIVING PIN "B"
4	2	1337260	NDL DRIVE PIN, 5.5MM
5	2	1337261	NDL BAR EYELET
6	AR	1337312	NEEDLE BAR BUSHING, MOD
7	2	1337335A	NEEDLE BAR, 7MM X 110MM
8	1	1337336	GASKET, TOP GUIDE
9	1	1337338	OIL GUARD, NDL BARS
10	1	1337339	OIL WICK PAD, NDL BARS
11	1	1337344	BARB COUPLING, 1/4 TUBE
12	1	1337371	OIL FELT, NEEDLE BAR
13	1	1337372	BRKT, OIL FELT
14	1	1337383	DRIVE YOKE
15	1	1337402	LATCH BLOCK
16	1	1337413	PVC TUBING, 3/8OD X 3/4L
17	1	1337472	LATCH ASSEMBLY
18	1	1337586	DRIVE HOUSING MOD.
19	1	49044	LATCH PIN NUT
20	1	49053	STUD, LATCH
21	1	AAF11752-3	10-32 TO 1/8 BRASS
22	1	NNK10-32	KEP NUT, 10-32
23	2	R0108240100	O-RING
24	2	SS8080310TP	SCREW,SET,SLOTTED,1/8-44
25	2	SSBC90020	8-32X3/8 BUTTON CAP
26	3	SSFC90024	8-32 X 3/8 FL ALN CAP
27	2	SSPS50012	2-56 X 3/16 PAN HD SC
28	1	SSSC70016	4-40 X 1/4 SOCKET CAP
29	4	SSSC90024S	#8-32 X 3/8 SOC CAP SC
30	1	SSSCM6X15	M6X15 SOC CAP SCREW
31	8	SSSS90012	8-32 X 3/16 SOC SET SC
32	1	WWFS10	WASHER, FLAT, #10, SAE



1337465 Needle Lift Assembly

AAC Drawing Number 1337465 Rev 1

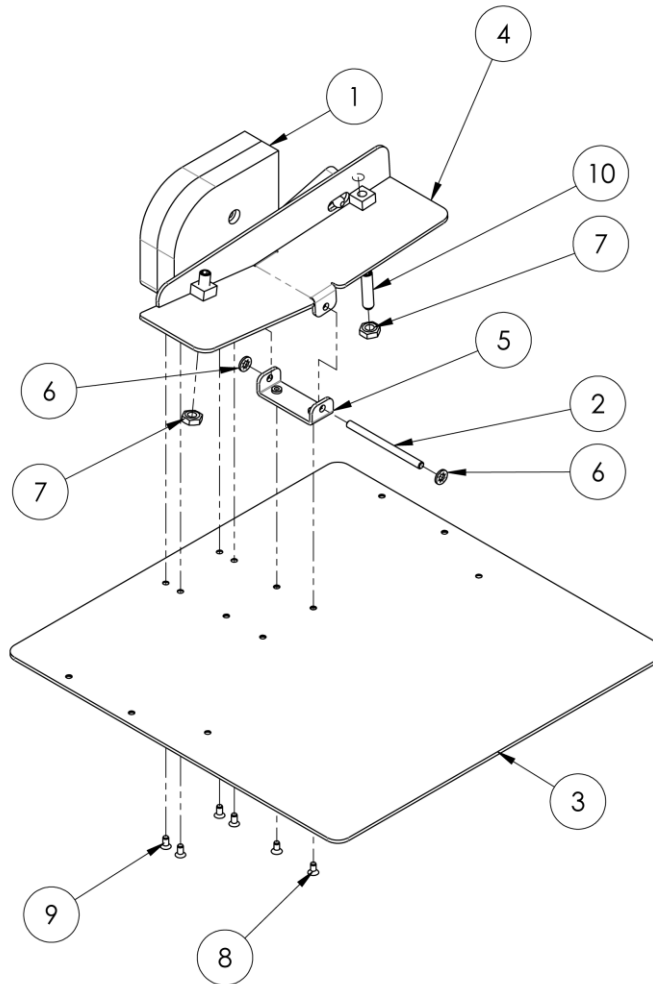
NO	QTY	PART #	DESCRIPTION
1	1	1278-7055D	PROX SWITCH W/PLUG, 12"
2	1	3517	WASHER, THRUST, BRONZE
3	1	3523	ROLLER BEARING, .375B
4	1	1337377	NEEDLE BAR DRIVE LEVER
5	1	1337378	FEED CRANK
6	1	1337384	CAM LINK
7	1	1337387	NEEDLE LIFT LINK
8	1	1337396	OIL JET BRACKET
9	1	1337459	HOUSING, HIGH LIFT LINK
10	1	1337461	PIN, 7MM 1.58 IN
11	1	1337462	NEEDLE ROT. LINK
12	1	1337463	PIN, 3/8 X 1.81
13	1	1337464	SENSOR FLAG
14	*AR	10753309	RUBBER PLUG, 28MM
15	*AR	13110606	NEEDLE DRIVING SHAFT
16	2	13122304	CRANK PIN D, .2850 DIA
17	*AR	13172705	THRUST COLLAR
18	2	AA198RA508	FLOW CONTROL, 5/32 X 1/8"
19	1	AACS3204	ACTUATOR, ROTARY, 32IP, 3/8
20	1	BBB-65	BEARING, NEEDLE, .375B
21	1	NNK10-32	KEP NUT, 10-32
22	1	SS7110840SP	SCREW, 11/64-40X7.8MM
23	1	SSPS90024	#8-32 X 3/8 LG PAN HD
24	1	SSSC90032	#8-32 X 1/2 SOC CAP SC
25	3	SSSC95032	10-24 X 1/2, SOC CAP
26	5	SSSC98040	10-32 X 5/8 SOC CAP
27	1	SSSCM6X12	M6X12 SOC CAP SCREW
28	1	SSSS98064	10-32 X 1 SOC SET SC
29	1	SSSS98080	SCREW, SKT SET, FLAT POINT



1337278 Handwheel Puller Assembly

AAC Drawing Number 1337278 Rev 2

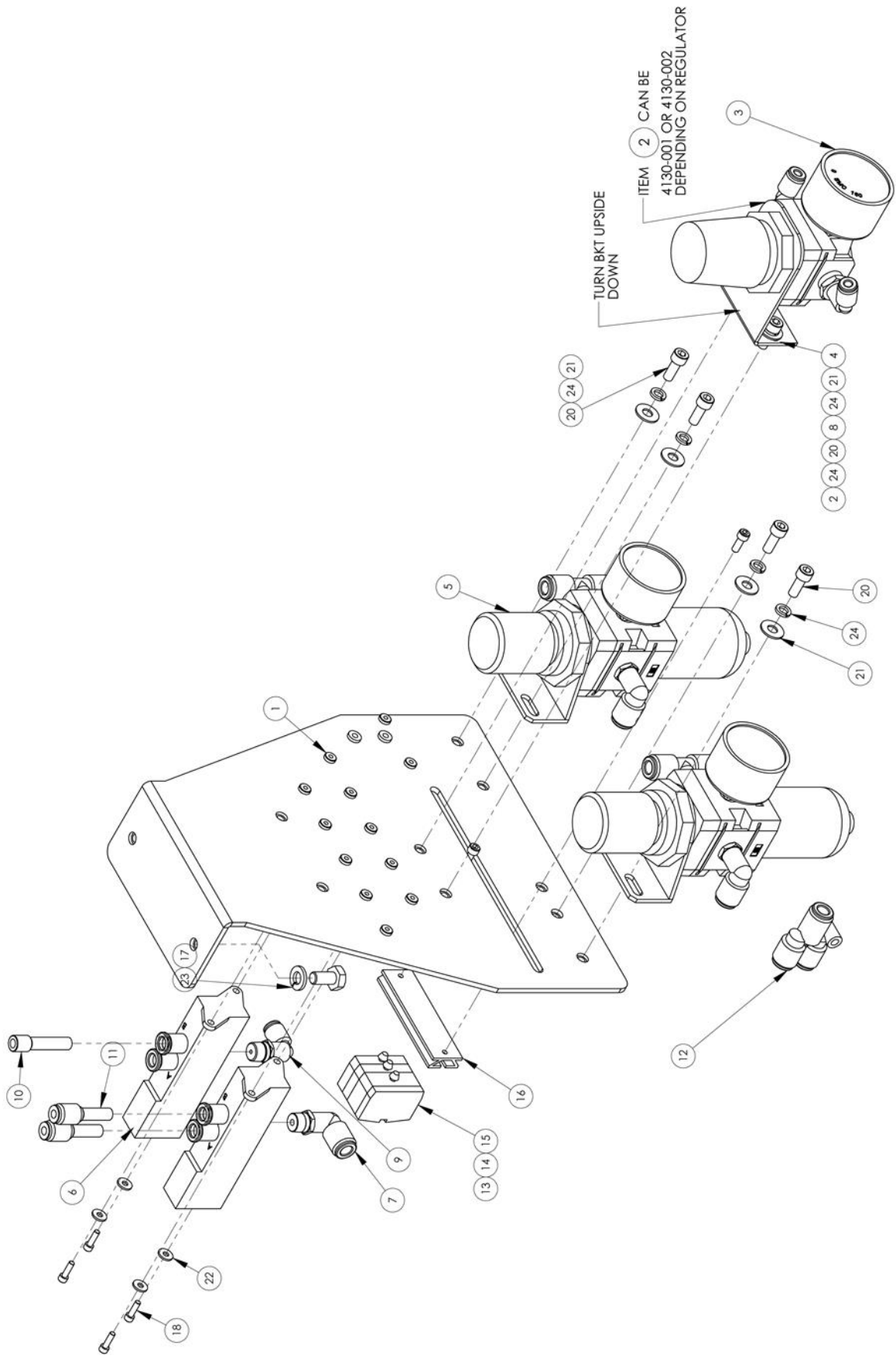
NO	QTY	PART #	DESCRIPTION
1	AR	120-25706	HAND KNOB
2	1	1317028	PULLEY, DRIVE, 18T, 3/8P
3	AR	SS7111810TP	SCREW, 11/64-40X18MM
4	AR	SS8151150TP	15/64-28 X 10.5MM SET SC



4059-FP301D Foot Pedal Assembly

ACC Drawing Number 9000033 Rev.6

NO	QTY	PART #	DESCRIPTION
1	AR	4059-EB301A	ACTUATOR,TREADLE,9 PIN
2	1	26058	ROD, STRAIGHT, 1018
3	1	4059030	BASE, FOOT PEDAL, 12X18
4	1	4059033	FOOT PEDAL WELDMENT
5	1	A3502-4	
6	2	MM94807A029	PUSHNUT,ROUND,1/4 DIA
7	2	NNJ3/8-16	3/8-16 JAM NUT
8	2	SSFC98024	#10-32 X .375 FLAT CAP
9	4	SSFPM5X10	SCREW,FLAT PHILLIPS
10	2	SSSS25096	3/8-16 SET SCREW, 1-1/2"

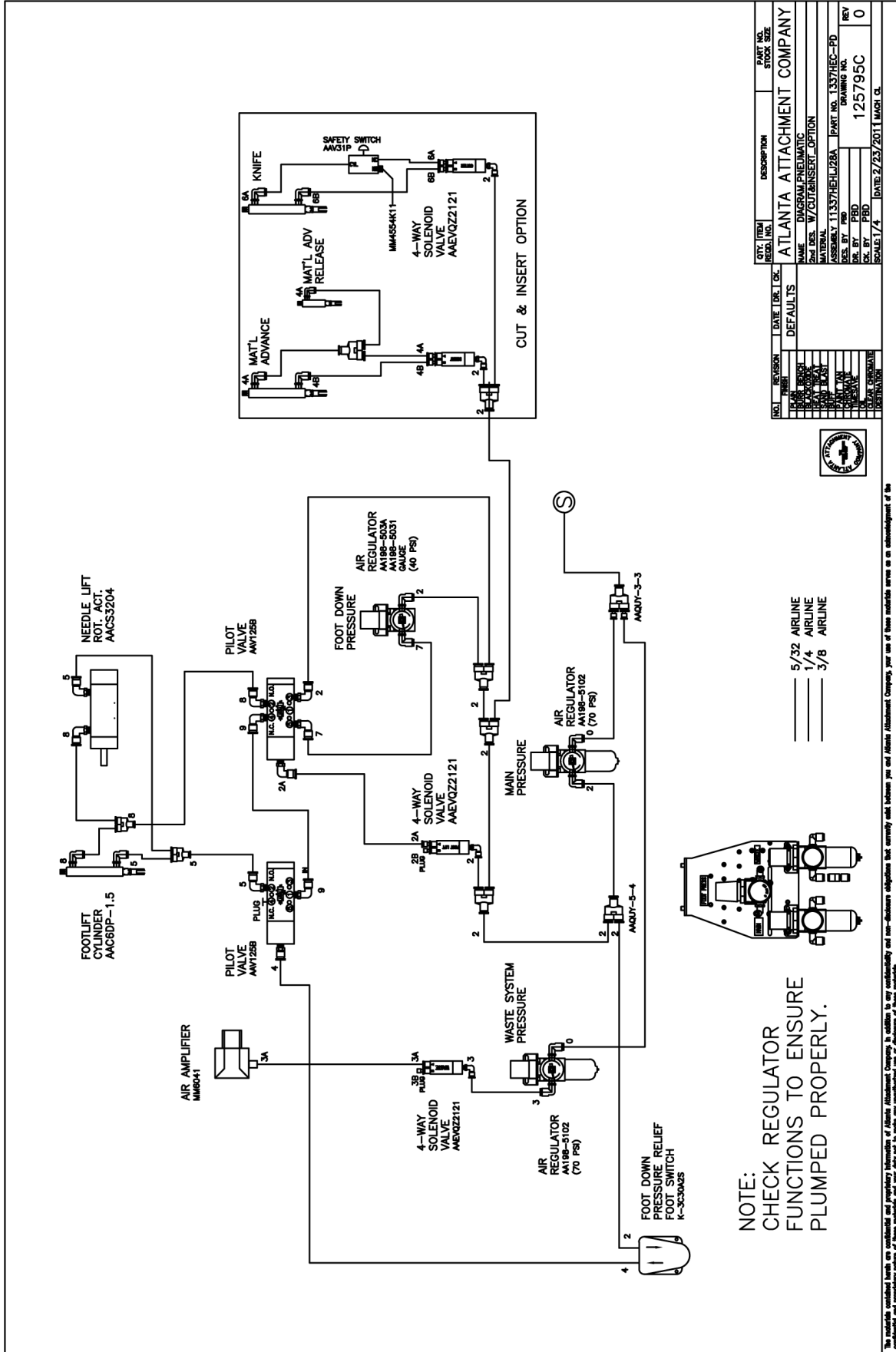


1337-1500A Pneumatic Panel Assembly

AAC Drawing Number 9003202 Rev 1

NO	QTY	PART #	DESCRIPTION
1	1	1338-024	PANEL, PNEUMATIC
2	1	4130-001	REGULATOR BRACKET
3	1	AA198-5031	0-160PSI AIR GAGE 1/8NPT
4	1	AA198-503A	REG,0-125 W/GAUGE& BRKT
5	2	AA198-5102	REGULATOR W/GAUGE & NUT
6	2	AAEVQZ2121	VALVE, BODY PORTED
7	1	AAQME-4-8	QUICK MALL ELBOW, 1/4 T
8	2	AAQME-5-4	ELBOW, MALE 5/32X1/4NPT
9	1	AAQME-5-8	QUICK MALE ELBOW
10	1	AAQPP-07	QUICK PLUG 1/4
11	2	AAQPR-5-4	QUICK PLUG-IN REDUCER
12	1	AAQUY-5-4	Y UNION, 5/32X1/4
13	2	FF264-311	TERMBLK,WAGO, TOP,SINGLE,GRY
14	1	FF264-341	TERMBLK,WAGO, TOP,DUAL,GRY
15	1	FF264-371	TERMBLK,WAGO, TOP,END
16	1	FF264-3BKT2.5	MOUNT, WAGO, 2" LONG
17	2	SSHCO1032	1/4-20 X 1/2 HHCS
18	4	SSSC70024	4-40 X 3/8 SOCKET CAP
19	2	SSSC80024	6-32 X 3/8 SOC CAP SC
20	6	SSSC98032	10-32X1/2, SOC CAP
21	6	WWF10	WASHER, FLAT, #10, COM
22	4	WWF4	WASHER, FLAT, #4
23	2	WWL1/4	WASHER, LOCK, 1/4
24	6	WWL10	WASHER, LOCK, #10

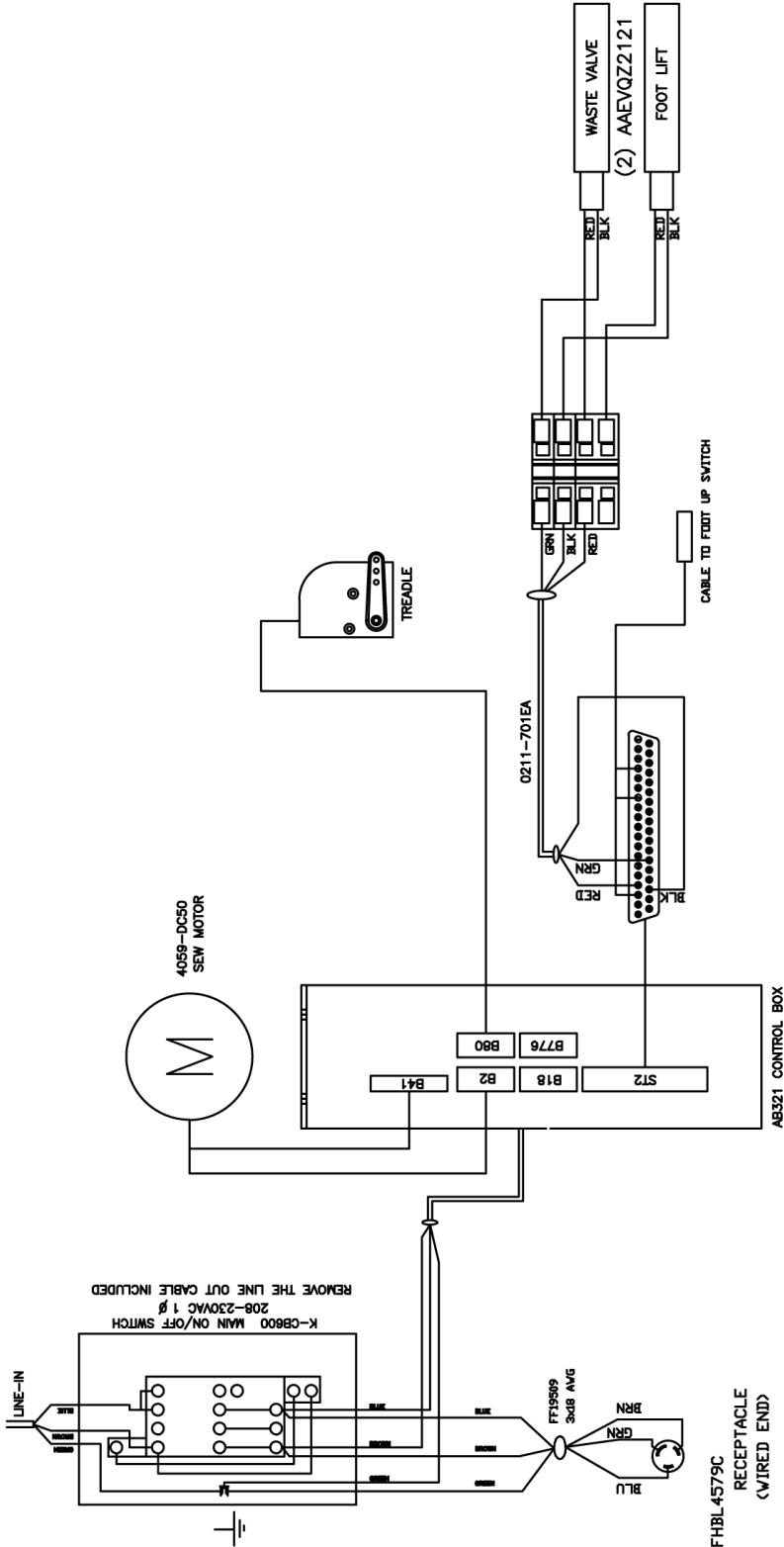
1337HEC-PD Pneumatic Diagram



1337HE-WD Wiring Diagram

SEE 1337HSEHLPAR4.XLS FOR PROGRAMMING INSTRUCTIONS

208 VAC, 1PH
FF195II 14 AWG 3 COND
20 FT



QTY.	ITEM RECD. NO.	DESCRIPTION	PART NO.	STOCK SIZE
ATLANTA ATTACHMENT COMPANY				
NAME DIAGRAM WIRING				
2nd DES. 11337HEHLJ28A				
MATERIAL				
ASSEMBLY 11337HEHLJ28A PART NO. 1337HE-WD				
DES. BY PBD DRAWING NO.				
DR. BY PBD 125913B				
CK. BY MATTDASHER				
SCALE: 1/6 DATE: 3/22/2011 MACH. CL.				

NO.	REVISION	DATE	DR.	CK.
DEFAULTS				
PLAIN	FINISH			
BURR-BENCH				
BLACKOXIDE				
HEAT TREAT				
SAND BLAST				
BLUFF				
PAINT TAN				
CHROMATE				
TIMESAVE				
OIL				
DESTINATION				
XXX-XX				



WIRE LIST	
18-3 CABLE	BLOWER MOTOR
FF19510	MM40370
GREEN	GROUND
TERMINAL TB8602	BLACK
BROWN	WIRE
SOAK	MM40474
CONV.	MM670474

The materials contained herein are confidential and proprietary information of Atlanta Attachment Company. In addition to any confidentiality and non-disclosure obligations that currently exist between you and Atlanta Attachment Company, your use of these materials serves as an acknowledgment of the confidential and proprietary nature of these materials and your duty not to make any unauthorized use or disclosure of these materials.

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 confirmed 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 período 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 se reserva el derecho de exigir el retorno de cada pieza defectuosa con un formulario de reclamo de garantía.
- AAC va, según su criterio, a reparar o reemplazar las máquinas o piezas defectuosas devueltas a AAC.
- AAC se 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 cambiada o modificada y no está sujeto a cualquier otra garantía implicada por otro agente o distribuida 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 hayan 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 hayan sido manufacturados por AAC, son garantizados por un período 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 a 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



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