model: 1959-K3
Auto Handle Tacker

Technical Manual & Parts List

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US patents: 4,038,933; 4,280,421; 4,432,294; 4,466,367; 4,644,883; 4,886,005; 5,134,947; 5,159,889; 5,203,270; 5,307,750; 5,373,798; 5,437,238; 5,522,332; 5,524,563; 5,562,060; 5,634,418; 5,647,293; 5,657,711; 5,743,202; 5,865,135; 5,899,159; 5,915,319; 5,918,560; 5,924,376; 5,979,345; 6,035,794

Foreign patents - 2,084,055; 2,076,379; 2,177,389; 2,210,569; 4-504,742; 8-511,916; 9-520,472; 0,537,323; 92,905,522.6; 95,935,082.8; 96,936,922.2; 5,159,889; 5,203,270.

Other U.S. and Foreign Patents Pending.

⚠️ 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.

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Safety Precautions

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.

General

The safety guidelines mentioned in this manual cover the entire product line of Atlanta Attachment Company. Some warnings and/or instructions may not apply to this particular unit.

All maintenance should be performed by a qualified service technician.

Electrical

- Electrical connection requires 220vAC, 5 Amp, 50/60 Hz Single Phase
- Disconnect the power source before threading or replacing the needles.
- Disconnect the power source before leaving the machine unattended.
- Disconnect the power source before removing or replacing parts or making adjustments and/or performing maintenance.
- Disconnect the power source before opening electrical control panels.

Pneumatics

Air supply requires 80 PSI, 2 SCFM avg.

Air Cylinders

- Keep hands away from pneumatic cylinders at all times.
- Disconnect air supply before servicing air cylinders.

Knives

- This machine may utilize knives and/or thread cutters that may activate automatically.
- Keep hands away from knife blades at all times.
- Disconnect power source and air supply before replacing damaged blades.

Conveyors

- This unit may include material conveyors.
- Keep hands away from belts.
- Keep hands away from motors and pulleys used to power the conveyors.

Pullers

- This unit may include pullers used to pull material into a sewing head, knife, etc.
- Keep hands away from pullers.

Sewing Heads

- Keep hands and all other objects away from needles.
- Disconnect power source and air supply before making adjustments to the sewing head, replacing needles, threads, bobbins, etc.
**Touch Screen Operation**

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. Counters are identified with the "+" and "-" buttons in the corners. These counters may be adjusted by pressing the "+" and "-" boxes. Pressing the dark area of the counter button will access another screen that gives detailed information about the counter and how to adjust it. Pressing RESET from any screen clears all machine functions and returns to the READY page. Normal operation of the machine is controlled from the READY page. The READY page allows anyone to access the necessary functions and adjustments needed for normal operation of the machine. There are also advanced functions that are only accessible by an authorized mechanic and include: timers and counters 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 READY page is pressed.

**Calibrating The Touch Screen**

Press the red stop button located above the touch screen.
Place one finger on the screen and hold it there while pushing the green on button located above the touch screen. Keep one finger on the screen until the display looks like the image shown below.

Touch the screen the the crossed lines in the upper left corner of the screen.
The display will then tell you to touch the screen at the crossed lines in the lower right corner. The screen is now calibrated.
Press the Reset button on the next screen.
Adjustments

Aligning The Rotation Bridge

Important:
Rotation Bridge must be parallel with front edge of the machine stand on both positions (A parallel to B).

Adjustment: Release 2 cylinder nuts C & D and adjust screws until the Rotation Bridge is parallel with the machine stand.
Loading The Handle Material

Step 1:
Feed the handle material thru the sensor rod.

Step 2:
Lift the upper puller roller and feed material through.

Step 3:
Feed the material between the lower and upper knife blades.

Step 4:
Press the “Feed and Cut Cycle” button.

Step 5:
Remove the scrap material.
Aligning the Handle Material

The handle material must be centered with the folding station.

1. Adjust the 2 guides according to handle width.

2. Adjust the 2 guides according to handle width.

3. Adjust the 2 center guides according to handle width.

4. Verify that the handle material is aligned with all components. Also be sure the guides are close enough to the material to keep it from moving side to side but loose enough for the material to be fed freely.
Adjustments When Material Thickness Changes

When changing to a thicker or thinner material than what was previously sewn, the following adjustments must be made.

1. Adjust the distance between the transfer bridge and the lower folding plate so that there is enough gap to allow the material to fold.

   Adjustment: Loosen the two screws that hold the bridge rotation tower. Move the tower up or down as needed to create the gap needed to allow the material to fold. Tighten the two screws.

2. Adjust the air pressure as needed. Too much pressure will prevent the lower plate from returning to it’s home position.

3. Loosen the two wing nuts and adjust the distance between the handle stop plate and the edge of the transfer bridge so that the material fits. Tighten the two wing nuts.
Handle Dimensions

A - The distance from the center of the handle to the sewn seam.
To adjust this distance, loosen the two screws on the rotation bridge and move as required. It is important to keep the rotation bridge parallel to the edge of the machine.

B - The distance from the sewn seam and the edge of the handle.
Use the two side limit screws on the transfer bridge to adjust this distance.

C - The distance between leading edge of the handle to the edge of the first folded tab.
Increase or decrease the number shown in the “Cut Position Time” in the Advanced Setup 1 screen.

D - The distance between the trailing edge of the handle to the edge of the second folded tab.
Adjust this distance by loosening the 4 screws that mount the cutting station and moving forward or backwards as needed.
Folding Steps

1. Home Position
2. Bridge moves to the right.

3. Handle is loaded
4. Clamp Close

5. Inside plate moves forward for first fold.
6. Lower plate moves backwards for second fold.
Electric Eye Sensor

Mount the sensor so that it is 2-6” from the material to be detected. The sensor does not have to be perpendicular to the material. An angle of up to 30 degrees can be used.

**Operation:**

The green LED indicates power on. If the green LED is flashing, it indicates an overload condition on the output and the sensor may be damaged. The yellow LED indicates the sensor is “seeing” material. If the yellow LED is flashing, it indicates the sensor output is marginal and the sensor needs to be adjusted.

**Adjustment:**

Adjust the “Gain” screw so that the yellow LED is on steady when the material is present and completely off when the material is absent.

When used as a “Roll Full Detector” on a rewinder, adjust the “Gain” so the yellow LED comes on only when the roll is full.

---

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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# | Part # | Description                   | Qty | Pg |
---|--------|-------------------------------|-----|----|
 1 | 1278-7055D | PROX SWITCH W/PLUG, 12     | 4   |    |
 2 | 1335M-2034 | PLATE, NUT #2-56         | 3   |    |
 3 | 1959-400   | FEED ASSY                   | 1   | 15 |
 4 | 1959201    | FOLDER ASSY                 | 1   | 17 |
 5 | 1959225    | INDEX ASSEMBLY             | 1   | 19 |
 6 | 1959237    | SEW HEAD CARRIAGE          | 1   | 20 |
 7 | 1959244    | CARRIAGE DRIVE ASSY        | 1   | 21 |
 8 | 1959249    | SWITCH MTG BRKT            | 1   |    |
 9 | 1959259    | CARRIAGE E-STOP BRKT.      | 2   |    |
10 | 1959262    | BASE PLATE-FOLDER          | 1   |    |
11 | 1959264    | STANDOFF-MAIN PLATE        | 3   |    |
12 | 1959270    | SUPPORT PLATE, KNIFE       | 1   |    |
13 | 1959280    | STAND ASSY-1959-K3         | 1   | 22 |
14 | 1959285    | KNIFE ASSY                 | 1   | 23 |
15 | 1959292    | LEG, SUPPORT, SEW HEAD     | 1   |    |
16 | 1959293    | COVER                       | 1   |    |
17 | 1959296    | FLOW CONTROL BANK          | 1   |    |
18 | 1959300    | CHUTE, HANDLE              | 1   |    |
19 | 1959310    | COVER                       | 1   |    |
20 | 1959318    | ROLL FEEDER                | 1   |    |

| # | Part # | Description                   | Qty | Pg |
---|--------|-------------------------------|-----|----|
21 | 1975-412A | PLATE, NUT, 4-40 @ .96 CTC  | 2   |    |
22 | 3307092  | BRACKET, EYE MOUNT, LH       | 2   |    |
23 | 97-1700  | TOUCH SCREEN ASSY            | 1   | 26 |
24 | AAF1/2   | CLAMP, BLACK PLASTIC         | 1   |    |
25 | AAF1/8   | 1/8" PLASTIC CLAMP           | 2   |    |
26 | FFSM312LVQ | BANNER MINI-BEAM            | 2   |    |
27 | MM9540K53 | BUMPER, 3/4 DIA             | 2   |    |
28 | NNJ1/2-20 | 1/2-20 HEX JAM NUT           | 4   |    |
29 | SSFC01040 | 1/4-20 X 5/8 FLAT ALLEN     | 3   |    |
30 | SSHC46128 | 1/2-20 X 2 HEX HEAD          | 4   |    |
31 | SSSC01040 | 1/4-20 X 5/8 SOC CAP         | 6   |    |
32 | SSSC01064 | 1/4-20 X 1 SOC CAP           | 6   |    |
33 | SSSC05048 | 1/4-28 X 3/4 SOC CAP         | 4   |    |
34 | SSSC98032 | #10-32 X 1/2 SOC CAP         | 7   |    |
35 | WWFS1/4   | WASHER FLAT, 1/4            | 16  |    |
36 | WWFS10    | WASHER, FLAT #10            | 7   |    |
37 | WWL1/4    | 1/4 LW                      | 16  |    |
38 | WWL10     | #10 LW                      | 7   |    |

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2  1959204  CENTER BLADE  1
3  1959205  STITCH CLAMP  1
4  1959206  FOLD PLATE  1
5  1959207  FOLD PLATE NUT PLATE  1
6  1959208  PIVOT BLK, STITCH CLAMP  1
7  1959209  BLOCK, BEARING  2
8  1959210  SHAFT  1
9  1959211  FOLD BLADE CYL MNT  1
10  1959212  BLOCK, BEARING MNTG  2
11  1959213  PLATE, FOLDER ASSM  1
12  1959214  LEVER  1
13  1959215  PLATE,  1
14  1959216  SPACER  1
15  1959217  STANDOFF, CYLINDER  1
16  1959218  BRACE, CORNER  2
17  1959219  BLOCK, MTG  1
18  1959221  BLOCK, MTG CYLINDER  1
19  1959226  CLAMP MTG ANG  1
20  1959284  BRACKET  1
21  AA198RA508  FLOW CONTROL, 5/32  2
22  AA198RA510  FLOW CONTROL, 5/32  4
23  AA2001F-03  FLOW CONTROL,INLINE  1
24  AAC022DXP  CYL, AIR, DA, 9/16B, 2S  1
25  AAC7DP-1  CYL, AIR, DA 3/4 BORE  1
26  AAFBP-11C  BRKT, PIVOT, 1/4 BORE  1
27  AAFBP-8C  BRKT, PIVOT, 5/32 BORE  1
28  AAFCT-6  CLEVIS, AIR CYL, 10-32  1
29  BBAW-3Z  BRG, ROD END, F, 10-32  1
30  BBAW-4  BEARING, ROD END, FEM  1
31  BBNTA815  BEARING, THRUST, 1/2B  2
32  BBPSB-500  BEARING, 1/2 ID, .60 L  2
33  BBTRA815  WASHER, THRUST, STL 1/2  4
34  CCCL3F  CLAMP COLLAR- 3/16  1
35  CCCL4F  COLLAR, 1/4, CLAMP  1
36  CCCL8F  CLAMP COLLAR- 1/2  1
37  EXTENDED  CYL, AIR, DA, 9/16B, 2S  1
38  MMGN12HZ0H  MGN12H BEARING BLOCK  2
39  MMGN12R0115H115MM  MGN12H BLK2
40  NNH10-32  #10-32 HEX NUT  2
41  NNU1/4-28  1/4-28 HEX JAM NUT  1
42  UUAA225-02  BEARING, BRONZE, 188ID  1

Rev. 0
**1959225 Index Assembly**

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**Rev. 0**

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### 1959237 Sew Head Assembly

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Rev. 0
## 1959244 Carriage Drive Assembly

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Rev. 0
# Part #     Description                  Qty Pg  # Part #     Description                  Qty Pg
1  132556-273 LEG, 3/4 X 1-1/2 X 15 LG     4  13 MMFB4444 FOOT, RUBBER         4
2  1959242 TABLE TOP                      1       14 NNH1/2-13 1/2-13 HEX NUT    4
3  1959250 FRAME WELDMENT                1       15 SSBC98024 #10-32 X 3/8 BUT HEAD 4
4  1959277 CONTROL BOX ASSY               1       16 SSHC01048 1/4-20 X 3/4 HEX HEAD 8
5  1959279 PNEUMATIC PANEL                1       17 SSSC01048 1/4-20 X 3/4 SOC CAP 8
6  1959281 DOOR-FRONT                    1       18 SSSC10056 5/16-18 X 7/8 SOC CAP 2
7  1959282 DOOR-SIDE                      2       19 SSZS93032 SCREW, SHT.METAL 10 ZIP 17
8  1959283 DOOR-SIDE-SMALL               1       20 WWFS1/4 WASHER FLAT, 1/4    8
9  AA198-5110 FILTER/REGULATOR            1       21 WWFS5/16 WASHER, FLAT, 5/16 4
10 EFKA BOX-REF EFKA CONTROLLER BOX       1       22 WWL1/4 1/4 LW                  8
11 MM40450010 FASTENER, SLIDE LOCK        4
12 MMAGR25414M RAIL, MODIFIED             2

1959280 Stand Assembly

Rev. 0
# Part # Description Qty Pg # Part # Description Qty Pg
1 1278-7154A CLAMP, 1/8 TUBE 1
2 1959271 MTG. BRKT, KNIFE 2
3 1959273 BASE, MAIN, KNIFE 1
4 1959326 MOUNTING BLOCK 1
5 40-609B TUBE, UNCURLING AIR 1
6 AT401-07HD CUTTER, SUB ASSY 1 25
7 AT401-08 MATERIAL LIFT 1
8 AT401-09 NUT PLATE, 8-32 1
9 SSSC01040 1/4-20 X 5/8 SOC CAP 4
10 SSSC01048 1/4-20 X 3/4 SOC CAP 2
11 SSSC90024 #8-32 X 3/8 SOC CAP 2
12 SSSC98048 #10-32 X 3/4 SOC CAP 1
13 WWF8 WASHER, FLAT #8 2
14 WWFS1/4 WASHER FLAT, 1/4 6
15 WWL1/4 1/4 LW 6
16 WWL10 #10 LW 1

Rev. 0

1959-K3
ADJUSTMENT

LOosen screw "A" slightly
COMPLETELY LOosen screw "B"
TIGHTen set screw "C" (in hole) TO INCREASE GAP
LOosen "C" TO DECREASE GAP (TAP BLADE IN TOWARD BASE)
CHECK WITH BLADES CLOSED

NOTES:

⚠️ CLEAN THREADS ON SCREW AND
Yoke. ASSEMBLE USING LOCKTITE PURPLE.
⚠️ CUT 1/4" OFF THREADS FROM END OF
ITEM 15.
# Part # | Description | Qty | Pg | # Part # | Description | Qty | Pg
--- | --- | --- | --- | --- | --- | --- | ---
1 | AAGQY-5-5 | AIR FITTING | 1 | | 30 | AT301-49 | VALVE BRKT | 1 |
2 | AAGQMC-4-8 | AIR FITTING | 2 | | 31 | AT301-24 | CUTTER SHAFT | 1 |
3 | AAGQME-5-10 | AIR FITTING | 2 | | 32 | NNJ5/16-24 | JAM NUT | 2 |
4 | AAGQPR-8-5 | AIR FITTING | 1 | | 33 | SSHC01032 | SCREW, HEX CAP | 2 |
5 | AAGQMC-8-8 | AIR FITTING | 1 | | 34 | SSHC20056 | SCREW, HEX CAP | 1 |
6 | AATP1/8BL | AIRLINE | 6" | | 35 | SSM200246 | SCREW, SHOULDER | 1 |
7 | AAGQME-4-8 | AIR FITTING | 3 | | 36 | SSSC98032 | SCREW, SOCKET CAP | 4 |
8 | AAVSMAV-3 | VALVE | 1 | | 37 | SSSC98048 | SCREW, SOCKET CAP | 2 |
9 | SSSS01016 | SCREW, SOCKET SET | 1 | | 38 | SSSC80064 | SCREW, SOCKET CAP | 2 |
10 | AT-LABEL-1 | CAUTION LABEL | 2 | | 39 | SSSC90024 | SCREW, SOCKET CAP | 4 |
11 | CCCL3F | CLAMP COLLAR | 1 | | 40 | SSSC98024 | SCREW, SOCKET CAP | 2 |
12 | AT301-48 | FINGER GUARD | 1 | | 41 | SSSC01048 | SCREW, SOCKET CAP | 2 |
13 | AAV341A | VALVE | 1 | | 42 | SSSS98016 | SCREW, SOCKET SET | 1 |
14 | AAV41-P | VALVE | 1 | | 43 | SSSS98024 | SCREW, SOCKET SET | 1 |
15 | BBAM-5Z | ROD END BEARING | 1 | | 44 | NNH214-32 | HEX NUT | 1 |
16 | MM8407A132 | E-RING | 3 | | 45 | WWFS10 | FLAT WASHER | 1 |
17 | AT301-53 | FINGER GUARD | 1 | | 46 | WWL1/4 | LOCK WASHER | 2 |
18 | RRC072HJ6 | SPRING | 1 | | 47 | WWL10 | LOCK WASHER | 2 |
19 | AT401-02 | GUARD | 1 | | 48 | WWL8 | LOCK WASHER | 4 |
20 | AT301-05 | CYLINDER | 1 | | 49 | WWL6 | LOCK WASHER | 6 |
21 | AT401-01A | LOWER CUTTER | 1 | | 50 | AATP1/16B | BLUE AIRLINE | 1' |
22 | AT401-03 | UPPER CUTTER | 1 | | 51 | AAFCT-8 | CLEVIS | 1 |
23 | AT301-10 | DRIVE LEVER | 1 | | 52 | AACSCHH104 | AIR CYLINDER | 1 |
24 | AT301-11 | SUPPORT BLOCK | 1 | | 53 | AT301-52 | VALVE MNT BRKT | 1 |
25 | AT301-43 | MAIN BLOCK | 1 | | 54 | SSSC80024 | SCREW, SOCKET CAP | 4 |
26 | AT301-13 | CYLINDER ADAPTER | 1 | | 55 | WWFS6 | FLAT WASHER | 2 |
27 | AT301-44 | YOKE | 1 | | 56 | NNE6-32 | ELASTIC LOCK NUT | 2 |
28 | AT301-15 | SHAFT | 1 | | 57 | AATP5/32 | AIRLINE | 2" |
29 | AT301-50 | GUARD BRKT | 1 | |  |  |

AAC Drawing Number 192561C Rev. 4
# Part # | Description                 | Qty | Pg |
--- | --- | --- | ---|
1   | 1278-6010 | START/STOP BUTTON | 1   |   |
2   | 28201     | CROSS BLOCK       | 1   |   |
3   | 40-112A   | TOUCH SCREEN MOUNT | 1  |   |
4   | 4080-003  | CONTROLLER, SBUS  | 1   |   |
5   | 97-1711   | TUBE              | 1   |   |
6   | AP-1721B  | BASE              | 1   |   |
7   | CCCL12F   | CLAMP COLLAR      | 1   |   |
8   | EE16-3C2406 | CABLE     | 10'  |   |
9   | SSSC80032 | SCREW, SOCKET CAP | 4   |   |
10  | WWL6      | LOCK WASHER       | 4   |   |
11  | SSPS90040 | SCREW, PAN HEAD   | 4   |   |
12  | TTH32426  | THREADED HANDLE   | 2   |   |

AAC Drawing Number 191886C Rev. 2

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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 which ever 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 which ever 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 manufacturer's (OEM) warranty. AAC will assist in the procurement and handling of the manufacturer's (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.
Productos Manufacturados

Atlanta Attachment Company garantiza que los productos de fabricación son libre de defectos de material y de mano de obra durante un periodo de ochociento (800) horas de operación or cien (100) días cual llega primero. Atlanta Attachment Company garantiza que todos los componentes del bus serie son libre 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 via 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 la máquina o pieza defectuoso devuelto para AAC.
- AAC reserva el derecho para tomar la decisión final sobre toda cuestión de garantía.
- Las garantías de AAC tiene un validez de ococientas (800) horas o cien (100) días cual llega primerlo.
- AAC garantiza operación satisfactoria de sus máquinas en base de las normas aceptadas de la industria contigente en la instalación y mantenimiento adecuada.
- La garantia de AAC no puede ser cambiado o modificado y no está sujeto a cualquier otra garantía implica por otro agente o distribuidor menos que sea autorizado por AAC antes de cualquier reclamo.

Lo Que Está Garantizado

- Componentes eléctricos que no está incluidos dentro del sistema Bus Serie que han sido manufacturados por AAC son garantizados por un periodo de ococientas (800) horas.
- Mechanical parts or components that fail due to defects in material or workmanship, which are manufactured by AAC.
- Componentes comprados (Motores, Cabezales, ) son protégidos debajo de la garantia del fabricante.
- AAC asistirá con el manejo de todo reclamo de garantia bajo la garantia del fabricante.

Lo Que No Está Garantizado

- Falla de repuestos al raíz de uso incorrecto, falta de mantenimiento, lubricación o modificación.
- Daños ocuridos al raíz de mal transporte, accidentes, incendio o cualquier daño al resultado de servicio por personas no autorizados o instalaciones incorrectas de conexiones eléctricas o neumáticas.
- Desgaste normal de repuestos como correas, anillos de goma, cuchillos, 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 en el campo.
- Pérdida de tiempo, ingresos potenciales, y/o ganancias.
- Daños personales y/o daños al propiedad al resultado de la operacion de este equipo.