



Model **1359A**

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Technical Manual & Parts Lists



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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.

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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 1359A Spring Bundle Mover, 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.

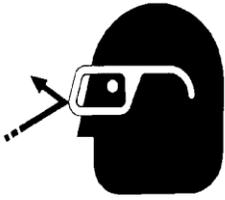
Signs on the Machine

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.

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.

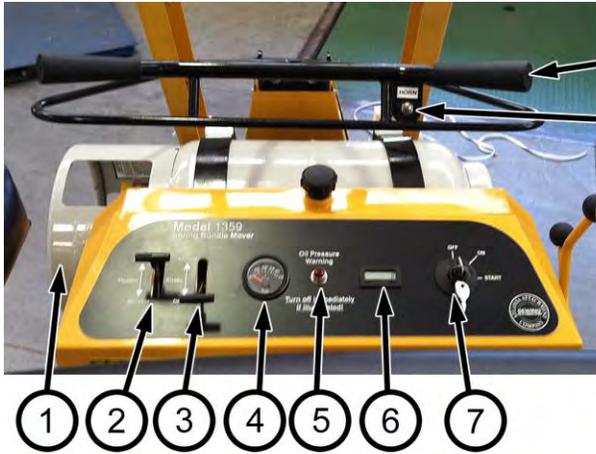
It is the owner's responsibility to make certain that the operator reads and understands this manual before operating this equipment. It is also the owner's responsibility to make certain that the operator is a qualified and physically able individual, properly trained in the operation of this equipment.

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 maintain a safe distance from people when operating.
- 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 attempt high speed maneuvering, especially in crowded or congested areas.
- 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 leave machine unattended with key in the ignition switch.
- NEVER attempt to make any adjustments or repairs to the machine while the engine is running. Repairs or maintenance requiring engine power 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.
- NEVER operate the machine where it could slip or tip over.
- Wet terrain can dramatically affect traction. Extreme caution should be observed to avoid loss of control due to the inability to stop.
- Only trained personnel should operate the spring bundle mover.
- Only one person should be riding the mover at a time.
- When dismounting the mover or when left unattended the parking brake should be engaged.

- When operating the mover there should be nothing obstructing the users view.
- The operator should be aware of pedestrians and other forklift traffic at all times.
- The mover should never be left running while unattended. The kill switches should never be tampered with and should only be depressed by which the manner they were intended and when safe operating conditions are present.
- Avoid quick starts and stops, especially when transporting cargo .
- Stop before entering a blind corner.
- Be alert to low structures that may interfere with the driver or safety light.
- Do not park in aisle or doorway.
- Anything that is lifted by the mover should be secured properly and balanced.
- Do not lift or lower load while transporting.
- Observe floor conditions.
- Be aware of fork settings, they can damage cargo, surroundings, and cause bodily harm if care is not taken.
- Follow and observe all propane safety regulations in the Kohler engine owner's manual.
- All drivers must be recommended to wear head protection as specified by ANSI z90.4-1984. Please refer to current plant and state regulations for more detailed safety procedures and guidelines.

Component Identification



- 8
- 9
- 10
- 11
- 12



- 13
- 14
- 15



<ol style="list-style-type: none"> 1. Propane Tank 2. Throttle 3. Choke 4. Voltage Meter 5. Oil Pressure Warning Light 6. Hour Meter 7. Ignition Switch 8. Steering Handle 	<ol style="list-style-type: none"> 9. Horn 10. Engine Oil Fill 11. Air Filter 12. Engine Oil Dip Stick 13. Fork Lever 14. Oil Filter 15. Parking Brake Lever
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Before Operating for the First Time

1. Clean unit, removing trash and dirt accumulation.
2. Check engine oil. (Refer to engine manual)
3. Check hydraulic fluid levels. Fill to 1" below the fill cap.
4. Install a full propane tank. Run machine at half speed for 5 minutes, checking operation of steering handle. Stop engine and check for oil leaks, loose fittings and so forth.
5. Tighten any bolts that may have loosened and make sure all hair pins, cotter pins and clevis pins are in place.

Starting the Engine

All fluid levels should be checked prior to operating this unit. Engine oil should be checked using the engine dip stick. The hydraulic fluid should be visually checked as being 1 inch below the fill cap.

The following steps are the correct procedures for starting the engine. If difficulty is encountered, contact Atlanta Attachment Company.

1. The parking brake should be released. Engine will not start while parking brake is engaged.
2. Be sure the throttle pedal is in the neutral position.
3. Set the throttle to the choke position (fully open).
4. Insert key into ignition switch and rotate clockwise to engage starting motor. Slowly disengage choke until engine starts. Release key when engine starts. Once engine is running smoothly, completely disengage the choke.
5. Immediately return throttle to half open or less.
6. Let the engine warm up for 30 seconds before operating. After this short warm-up, the engine should accelerate without hesitation.

Important!

The engine starter should not be operated for periods longer than 30 seconds at a time. An interval of at least two minutes should be allowed between such cranking periods to protect the starter from overheating and burn-out.

Warning!

Never leave the machine unattended with key in ignition switch.

Driving the Unit

Warning!

Never make sudden stops or reverse direction, especially when operating on a slope. The steering bar is designed for sensitive response. Rapid rotation of the steering bar in either direction could result in a reaction of the unit that can cause serious injury.

The first thing an operator must do is properly position themselves on the machine. This is done by standing on the driving platform with the left foot on the left pedal platform and the right foot on the throttle pedal.

The operator must keep both hands on the handle bars when in motion and at least one hand on the handle bars when the unit is stopped while the engine is running.

Speed

The engine throttle and the pressure applied to the operator's right foot pedal control the speed at which the unit moves in either direction.

Fork Control

Controlling the tilt forks is done by manipulating the Fork Tilt control lever. The forks will tilt forward if the lever is pushed forward and backwards if the lever is pulled backwards.

Before moving in the spring bundle mover, tilt the forks so that the tips of the forks are at least 2 inches from the ground.

Parking

The parking brake should always be used when parking. This will ensure a safe stop even during the event of hydraulic failure.

Operating Suggestions

Inexperienced operators may have a tendency to over-steer and lose control. Slow-moving practice maneuvers are recommended to become familiar with these characteristics before attempting normal speed operation.

Unit's performance is maximized when the throttle is set at full rpm. This gives maximum power to the drive wheels when needed. Use the pedal to control ground speed.

Important!

Prior to operating the spring bundle mover, the operator should be thoroughly familiar with the proper use and operation of the equipment and should read the manual completely and thoroughly, and should have attempted slow moving maneuvers to become familiar with the operation of the equipment before attempting normal speed operation.

Warning!

The unit's steering handle is very responsive: Easy does it! For smooth operation, rotate handle slowly, avoid sudden movement. Skill and ease of operation come with practice and experience.

Maintenance

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator should follow.

Remain alert for unusual noises. They could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

Keep your machine clean, remove heavy deposits of trash and clippings, they can cause engine and hydraulic overheating as well as excessive belt wear. Clear away heavy build-up of grease, oil and dirt, especially in the area of reservoir oil and engine combustion air; minute dust particle are abrasive to close-tolerance engine and hydraulic assemblies.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult Atlanta Attachment Company when assistance is needed.

Important!

Read and observe safety warnings in front of manual.

Warning!

Unless specifically required, DO NOT have engine running when servicing or making adjustments to the unit. Repairs or maintenance requiring engine power should be performed by trained personnel only.

Maintenance Schedule

The following schedule is a combination of Atlanta Attachment Company’s recommendations as well as the maintenance specifications listed in the Kohler engine owner’s manual. Refer to Kohler’s manual for specific information relating to engine maintenance.

Frequency	Maintenance Required
Daily or Before Starting Engine	<ul style="list-style-type: none"> • Visually inspect the unit. • Visually inspect the tires. • Check engine oil level. • Check hydraulic fluid levels. • Check air cleaner for dirty, loose, or damaged parts. • Check air intake and cooling areas, clean as necessary.
Every 25 Hours	<ul style="list-style-type: none"> • Service precleaner element.
Every 100 Hours	<ul style="list-style-type: none"> • Check the battery connection. • Tighten lug nuts on wheels. • Apply grease to all grease fittings. • Replace air cleaner element. • Change engine oil. • Remove cooling shrouds and clean cooling areas¹. • Check oil cooler fins, clean as necessary (if equipped). • Check spark plug condition and gap.
Every 200 Hours	<ul style="list-style-type: none"> • Change engine oil filter. • Change hydraulic fluid and filter.
Annually or Every 300 Hours	<ul style="list-style-type: none"> • Replace spark plugs.
Annually or Every 500 Hours	<ul style="list-style-type: none"> • Check all lines (high pressure/vacuum) including fittings for leaks. • Have electric starter serviced. • Have lock-off/filter serviced (LP). • Have combustion deposits removed if using non-synthetic oil. • Drain regulator of accumulated fuel deposits (Nikki regulators only).
Every 1500 Hours	<ul style="list-style-type: none"> • Have regulator disassembled, cleaned, and reset.

Electrical System

The electrical system is a 12 volt, negative ground. Recommended battery size is 650 or better cranking AMP rating. A maintenance-free battery is recommended. Otherwise, follow battery manufacturer's maintenance, safety, storing and charging specifications.

Warning!

Always wear eye protection when checking the battery, acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call physician immediately. Acid will also damage clothing.

Warning!

Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame. Always remove the negative ground first and replace it last.

Electrolyte may overflow and damage paint, wiring or structure. When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Use soda mixed in water to clean corrosion off the terminals.

Common circuit failures are usually caused by shorting, corroded or dirty terminals, loose connections, defective wire insulation or broken wires. Switches, solenoids and ignition components may also fail, causing a shorted or open circuit.

Before attempting any failure diagnosis of the electrical system, use a test light or voltmeter to check the battery voltage. If the battery voltage is satisfactory, check the cleanliness and tightness of the terminals and ground connections. A general understanding of electrical servicing and use of basic test equipment is necessary for troubleshooting and repair.

Hydraulic System

Use only 20W50 motor oil as specified. Remember, dirt is the primary enemy of any hydraulic system.

Warning!

Hydraulic fluid escaping under pressure can penetrate skin. Hydraulic fluid may cause infection in a minor cut or opening in the skin. If exposed to hydraulic fluid, see a doctor at once.

Before applying pressure to hydraulic system, make sure all connections are tight and all hoses and lines are in good condition. To find a leak under pressure, use a piece of cardboard or wood.

Never use your hands! Relieve all pressure in the system before disconnecting or working on hydraulic lines.

Fuel System

LPG Fuel Recommendations

Liquefied Petroleum Gas (LPG) from an appropriate LP fuel tank (supplied separately) is required to operate this engine.

Warning: Pressurized LPG!

Fuel tanks are filled under pressure and should be handled with care. To prevent tank damage which could endanger the safety of the operator or persons in the area, do not drop or drag tanks on any surface. Use a hand truck when moving, or tilt the tank on its footing in a position slightly off vertical and roll it.

Avoid personal contact with LPG fuel to prevent frostbite. See a physician if frostbite occurs.

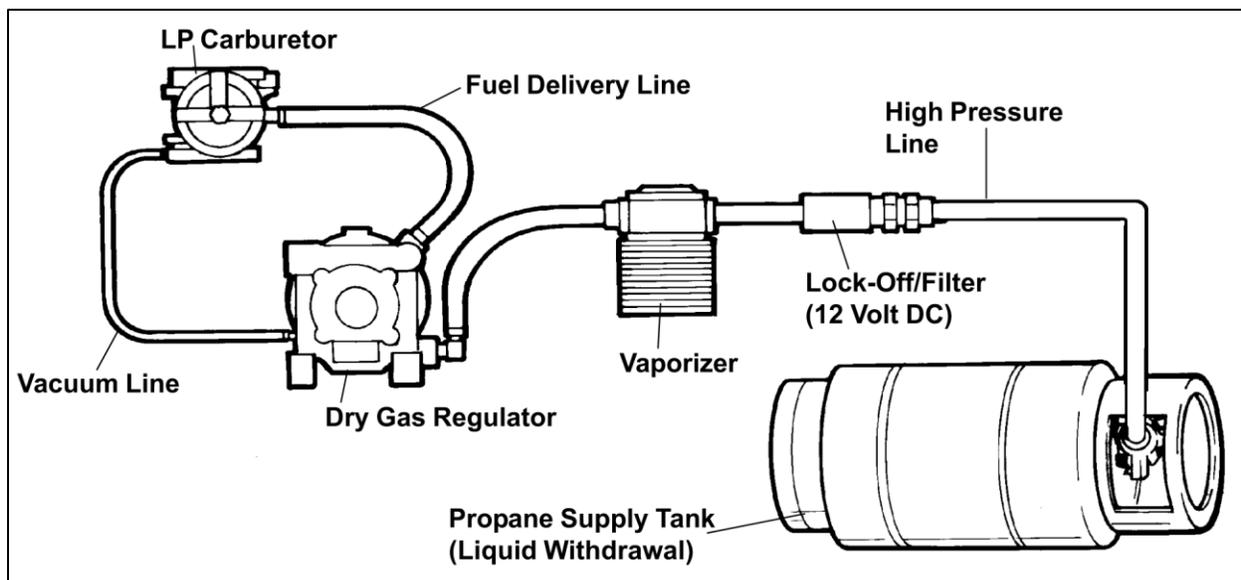
Warning: Explosive Fuel!

LPG is extremely flammable, is heavier than air and tends to settle in low areas where a spark or flame could ignite the gas. Do not start or operate this engine in a poorly ventilated area where leaking gas could accumulate and endanger the safety of persons in the area.

LPG fuel consists primarily of propane, although the fuel supplier may sometimes mix other gases with propane. Fuel tanks must be filled only by persons qualified in the handling of LPG. Tanks are filled by weight and should not be overfilled (never to more than 80 percent of total capacity). An air space must be present in the tank to allow fuel to expand. Tanks must be removed from equipment before filling.

To insure personal safety, installation and repair of LPG fuel supply systems must be performed only by qualified LPG system technicians. Improperly installed and maintained LPG equipment could cause fuel supply system or other components to malfunction, causing gas leaks.

Observe federal, state and local laws governing LPG fuel, storage, and systems.



LP System Schematic

Lubrication System

There are 6 grease fittings on the 1359 unit. Apply grease to these fittings after every 100 hours of operation.

Storage

When storing the machine for a period of time, perform the following steps to prevent damage.

1. Remove all dirt and debris from machine.
2. Clean machine and touch up all scratches with spray paint.
3. Check thoroughly for any worn or damaged parts that need replacing. Part can be ordered from Atlanta Parts Depot at 866-885-5100 or www.atlantapartsdepot.com.
4. Thoroughly lubricate machine, according to lubrication instructions on page .
5. Check hydraulic fluid level. Add fluid if necessary. Change oil and filter if not done in last 500 hours.
6. Protect battery from freezing temperatures. Occasionally recharging battery during storage will extend battery life.
7. Perform separate engine preparation as listed below.
8. Store in a clean, dry place.

Preparation for Engine Storage

1. Perform the following steps when engine is to be unused for a long period of time.
2. Run engine for a minimum of 15 minutes.
3. Drain oil from crankcase while engine is still warm.
4. Refill with fresh oil of proper viscosity.
5. Disconnect the LPG supply tank.
6. Remove and replace fuel filter if not done in previous 100 hours.
7. Clean exterior surface of engine. Spread a light film of oil over any exposed metal surfaces of engine that are subject to corrosion.
8. Clean dirt and chaff from cylinders and fins, blower housing and muffler.
9. Check oil filler cap to make certain it is securely in place.

Operating Unit after Storage

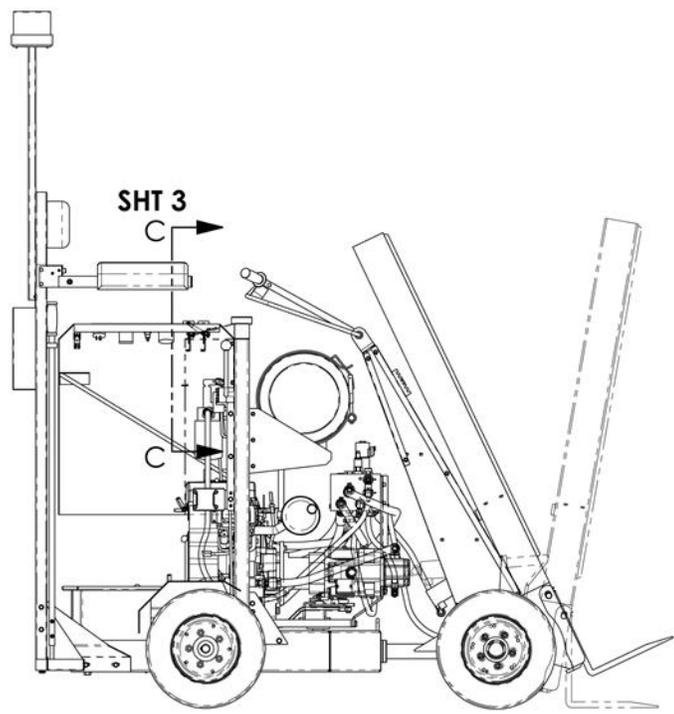
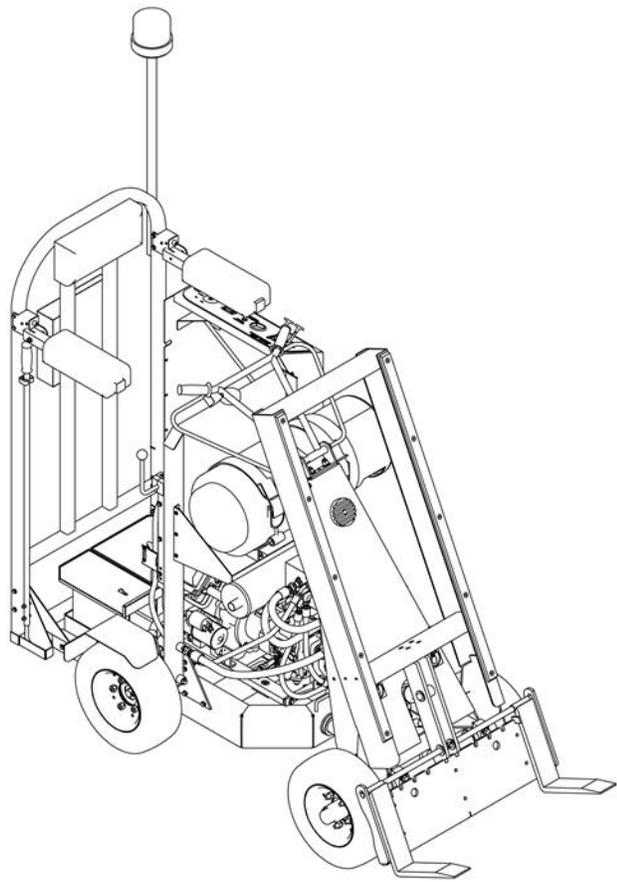
1. Clean machine, removing oil and dirt accumulation.
2. Check engine oil and hydraulic fluid levels.
3. Connect LPG supply tank. Run machine at half speed for 5 minutes, checking operation of steering control lever. Stop engine and check for oil leaks, loose fittings and so forth.
4. Tighten any bolts that may have loosened and make sure all hair pins, cotter pins and clevis pins are in place.
5. Install all safety shields and review safety precautions listed in this manual.

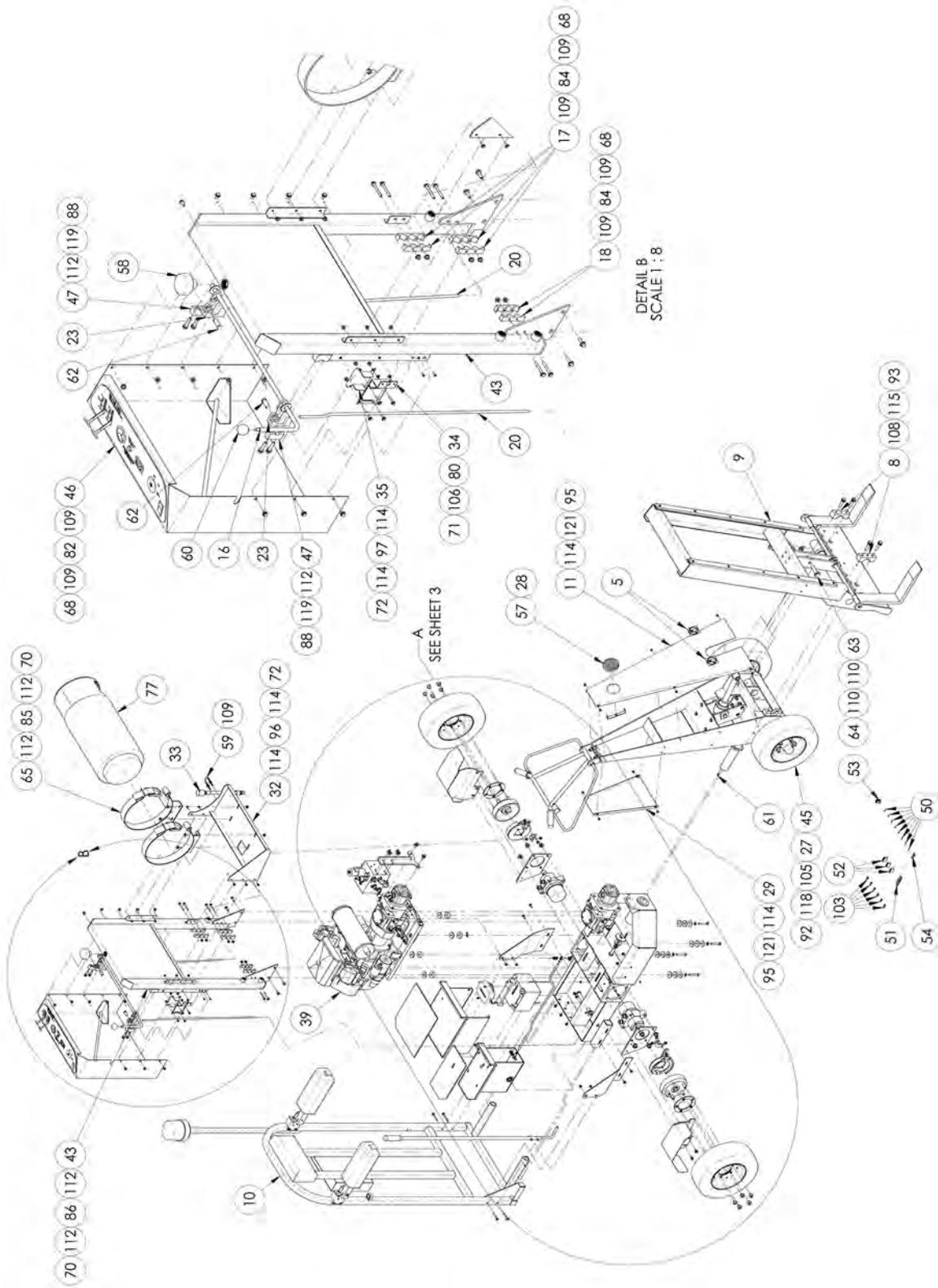
Assembly Drawings & Parts Lists

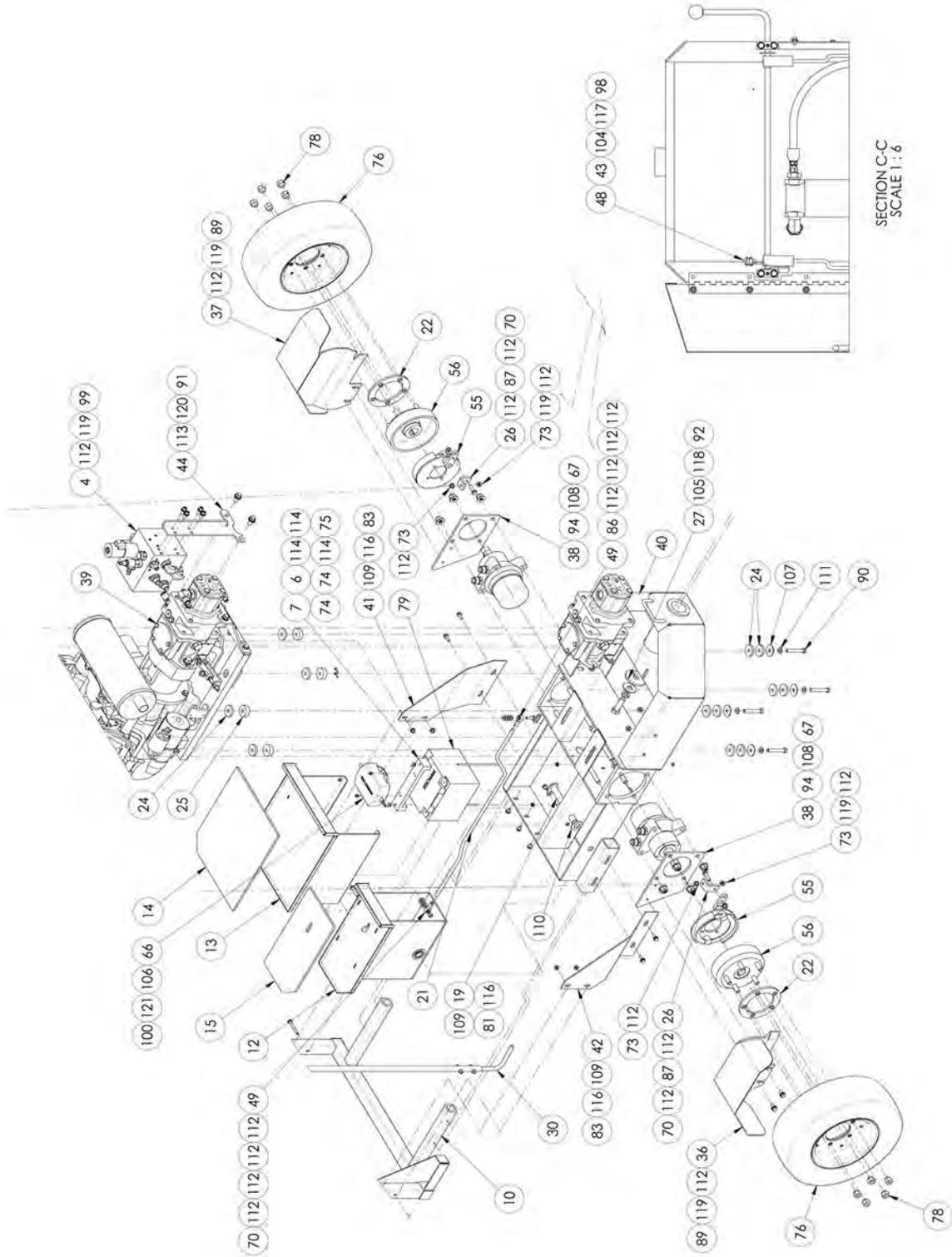
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11369A SPRING BUNDLE MOVER

AAC Drawing Number 9006727 Rev 0

NO	QT	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
1	*1	1359-LAB2	LABEL,CAUTION,BLK W/YEL	31	1	1359359	HOLDER, SPRING ROD
2	*1	1359-LAB3	LABELS,AAC RND,BLK/WHT	32	1	1359364	LARGE LP TANK BRKT
3	1	1975-412A	PLATE,NUT,4-40,.95CTC	33	1	1359403	HOSE,PROPANE,1359
4	1	11359A-HYD	HYDRAULIC ASSY	34	1	1359405	BRKT, HOSE CLAMP
5	2	26276E	NO HANDS ADHESIVE LABEL	35	1	1359406	BRKT, HOSE
6	2	1000545	ROD,THREADED 10-32X 6-5/8	36	1	1359415	FENDER, RIGHT
7	1	1003032	BATTERY STRAP	37	1	1359419	FENDER, LEFT
8	2	1359031	BLOCK, BEARING	38	2	1359477	FENDER MTNG BKT
9	1	1359035	FORK FRAME ASSEM	39	1	1359478	MOTOR-PUMP ASSEM
10	1	1359036	SAFETY CAGE ASSEMBLY	40	1	1359516	FRAME, LOWER
11	1	1359086	PANEL, FRONT	41	1	1359531	GUSSET, SAFETY CAGE
12	1	1359124	RPEDAL, RIGHT	42	1	1359532	GUSSET, SAFETY CAGE
13	1	1359129	LEFT PEDAL	43	1	1359540	CONSOLE SUPPORT, WELD'MT
14	1	1359132	PAD, LEFT FOOT	44	1	1359555	MTG. BTKT., HYD. MANIFOLD
15	1	1359133	PAD, RIGHT FOOT	45	1	1359556	STEERING ASSY
16	1	1359139	LINKAGE, BRAKE	46	1	1359557	CONSOLE ASSY
17	4	1359175	HYD LINE HOLDER, RIGHT	47	2	1359564	CONTROL, BLOCK
18	2	1359176	HYD LINE HOLDER, LEFT	48	1	A-2014-39	MICRO SWITCH
19	1	1359180	PIVOT ROD, RIGHT FOOT	49	2	BBAW-5Z	BEARING, ROD END, FEMALE
20	2	1359209	LINKAGE, BRAKE	50	8	FF31F1022	PIN, MALE .093
21	1	1359236	LINKAGE, PUMP	51	1	FF264-3BKT2.5	MOUNT, W AGO, 2' LONG
22	2	1359277	WHEEL SPACER	52	3	FF264-341	TERMBLK,W AGO, TOP, DUAL, GRY
23	2	1359308	CAM, BRAKE	53	1	FF274-229	9 PIN MALE CONNECTOR
24	12	1359311	WASHERS, VIB DAM	54	1	FF638	LUG,WIRE,6AWG,3/8 HOLE
25	4	1359312	SPACER, MOTOR MOUNT	55	2	HYHGBBEW 52X	BRAKE ASSY,HYD.MTRS
26	2	1359313	BRAKE BRKT, LEFT	56	2	HYHGBDEXXX5	BRAKE DRUM,HYD.MTRS
27	1	1359317	PLATE, SHAFT	57	1	MM3FHY6	HORN,FORKLIFT,DIS,12V
28	1	1359336	HORN BRKT	58	1	MM4030	HYD BREATHER CAP
29	1	1359337	COVER, REAR	59	1	MM8875T32	U-BOLT,1/4-20 THRD,3-3/16
30	1	1359354	HOOK, SPRING BUNDLE	60	1	MM61095K53	KNOB, BALL, 3/8-16 TAP

NOTE: CONTINUOUS IN THE NEXT PAGE

11369A SPRING BUNDLE MOVER (Continuation)

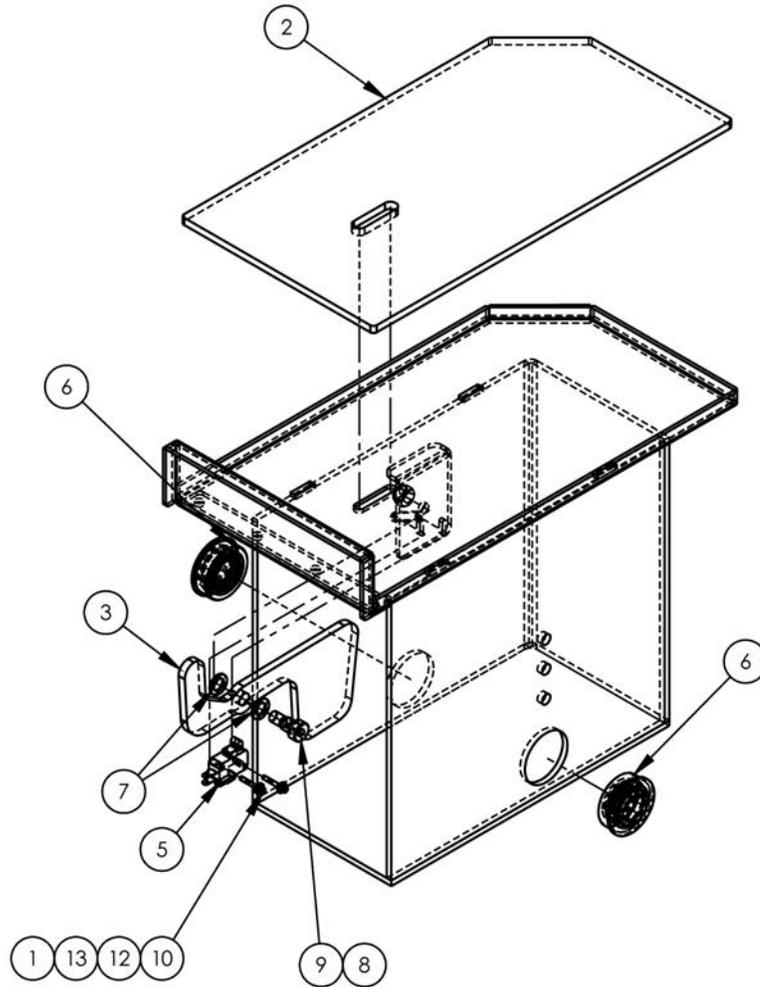
AAC Drawing Number 9006727 Rev 0

NO	QTY	PART #	DESCRIPTION	NO	QTY	PART #	DESCRIPTION
61	1	MM98296A924	PIN,ROLL,1/4"X3/4"	91	2	SSHC38064	7/16-14 X 1 HEX CAP
62	2	MM98306A381	PIN, CLEVIS, .5 X 1.125	92	1	SSHC41128	5/8-11 X 2 HEX CAP
63	1	MM98306A562	PIN,CLEVIS,3/4X3	93	4	SSHC45160	1/2-13X2-1/2 HEX CAP
64	1	MM98338A225	COTTER PIN, 1/8 X 2 1/2	94	8	SSHC45192	1/2-13X3 HEX CAP
65	1	MM110014619241	LP TANK BRKT	95	10	SSHC98032	10-32X1/2 HEX HD
66	1	MMWM112A	CHARGER,BATTERY TENDER	96	6	SSHC98040	10-32X5/8 HEX HD
67	8	NNE1/2-13	NUT,NYLOCK,1/2-13	97	4	SSHC98080	#10-32 X 1-1/4 HEX CAP
68	15	NNE1/4-20	NUT,ELASTIC LOCK,1/4-20	98	2	SSPS70048	4-40 X 3/4 PAN HD SLOTTED
69	4	NNE3/8-16	NUT, ELASTIC 3/8-16	99	4	SSSC10056	5/16-18X7/8 SOC CAP
70	11	NNE5/16-18	NUT,ELASTIC LOCK,5/16-18	100	2	SSSC90032	#8-32 X 1/2 SOC CAP SC
71	2	NNE8-32	NUT,ELASTIC LOCK, 8-32	101	*4	TT5802	TERMINAL RING, #10 STUD
72	10	NNE10-32	NUT,ELASTIC LOCK	102	*2	TTAA5267	TERMINAL, FE,INS,18-22
73	4	NNH5/16-18	NUT,HEX, 5/16-18	103	6	TBB5263	TERMINAL,.25 FULLY INSUL
74	4	NNH10-32	HEX-NUT 10-32 REG.	104	2	WWF4	W ASHER, FLAT, #4
75	2	NNW10-32	#10-32 WING NUT	105	1	WWF5/8	W ASHER,FLAT,5/8
76	2	PPP4808	WHEEL,SOLID,4X16	106	4	WWF8	W ASHER, FLAT, #8
77	1	PPP5580TC	TANK,LP,33.5LB,STEEL	107	4	WWFE024	W ASHER,FENDER,3/8
78	10	PPP611016	NUT,LUG,1/2-20	108	12	WWFS1/2	W ASHER,FLAT,SAE,1/2
79	1	PPPPC925	BATTERY,12 VOLT	109	45	WWFS1/4	W ASHER,FLAT,SAE,1/4
80	2	SSFC90032	8-32 X 1/2 FLAT ALLEN CA	110	3	WWFS3/4	W ASHER, .797ID X 1-1/2OD
81	7	SSHC01032	1/4-20 X 1/2 HHCS	111	8	WWFS3/8	W ASHER,FLAT,SAE,3/8
82	5	SSHC01040	1/4-20 X 5/8 HHCS	112	45	WWFS5/16	W ASHER,FLAT,SAE,5/16
83	4	SSHC01056	1/4-20 X 7/8 HEX CAP	113	2	WWFS7/16	W ASHER,FLAT,7/16
84	10	SSHC01144	HEX HEAD BOLTS	114	36	WWFS10	W ASHER, FLAT, #10, SAE
85	4	SSHC10056	5/16-18 X 7/8 HHCS	115	4	WWL1/2	1/2 LOCK WASHER
86	5	SSHC10064	5/16-18 X 1 HHCS	116	11	WWL1/4	W ASHER,LOCK,1/4
87	2	SSHC10080	5/16-18 X 1-1/4 HHCS	117	2	WWL4	W ASHER,LOCK,#4
88	5	SSHC10096	5/16-18 X 1-1/2 HHCS	118	1	WWL5/8	W ASHER,LOCK 5/8
89	4	SSHC20048	5/16-24 X 3/4 HEX CAP	119	14	WWL5/16	W ASHER,LOCK, 5/16
90	4	SSHC25160	3/8-16X2-1/2 HEX CAP SC	120	2	WWL7/16	W ASHER,LOCK,7/16

1359036 SAFETY CAGE ASSEMBLY

AAC Drawing Number 1359036 Rev 3

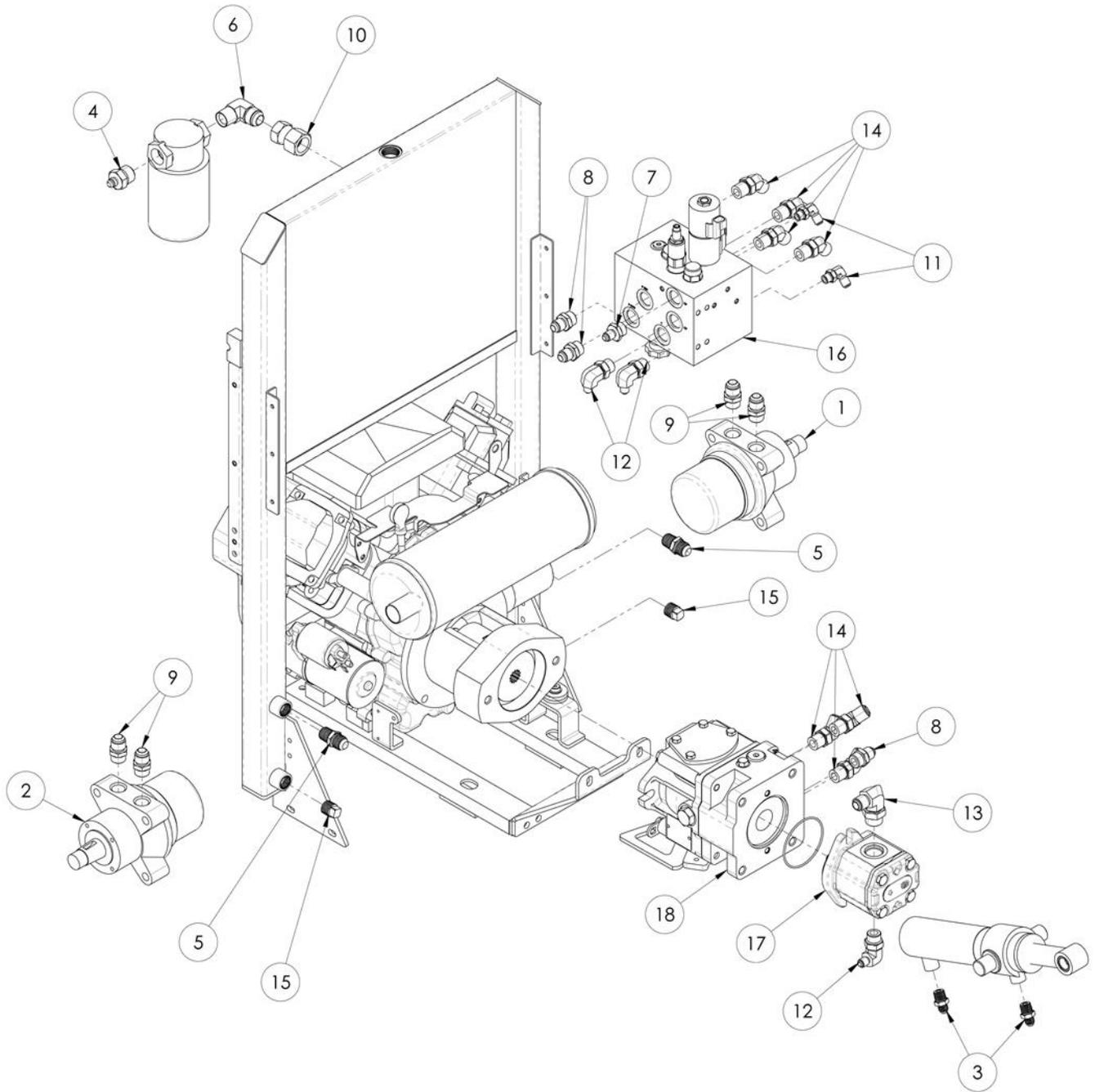
NO	QTY	PART #	DESCRIPTION
1	2	1975-412A	PLATE,NUT,4-40,.95CTC
2	1	1000301	BACK REST,TUGS
3	2	1002543	ARM REST, AFBO
4	1	1359025	SAFETY CAGE
5	1	1359276	BOX, INFO
6	2	1359383	MODIFIED ARM REST
7	2	1359394	ARM LIMIT WELDMENT
8	1	1359541	LIGHT POLE W ELDMT
9	2	A-2014-39	MICRO SWITCH
10	3	FF31F1022	PIN, MALE .093
11	1	FF59F1803	3 PIN MALE CONN
12	1	MM1723A64	TOOL CLAMP, VINYL COATED
13	2	MM9540K53	BUMPER, 3/4 DIA
14	2	MM9565K27	END CAP,SQ,BLACK,1.5
15	4	NNC1_4-20	NUT, CAP, 1/4-20
16	2	NNE5/16-18	NUT,ELASTIC LOCK,5/16-18
17	1	PPP769-1A	LIGHT,STROBE,CAUTION
18	2	SSBC01032	1/4-20 X 1/2 BUT CAP SC
19	4	SSBC90024	8-32X3/8 BUTTON CAP
20	4	SSHC01144	HEX HEAD BOLTS
21	2	SSHC10144	SCREW,HEX,5/16-18X2-1/4
22	4	SSPS70048	4-40 X 3/4 PAN HD SLOTTED
23	1	SSPS80032	#6-32 X 1/2 LG PAN HD
24	4	SSRS98160	10-32X2.5 ROUND HEAD
25	2	SSSC90032	#8-32 X 1/2 SOC CAP SC
26	6	SSZH#10048	SCREW,SHT.METAL HEX 10
27	2	TT1818-1	FEMALE QUICK SLIDE
28	2	TT5819	BUTT CONNECTOR
29	2	TTAA5267	TERMINAL, FE,INS,18-22
30	4	WWF4	W ASHER, FLAT, #4
31	4	WWF8	W ASHER, FLAT, #8
32	4	WWFS1/4	W ASHER,FLAT,SAE,1/4
33	2	WWFS3/8	W ASHER,FLAT,SAE,3/8
34	2	WWFS5/16	W ASHER,FLAT,SAE,5/16
35	4	WWFS10	W ASHER, FLAT, #10, SAE
36	4	WWL1/4	W ASHER,LOCK,1/4
37	4	WWL4	W ASHER,LOCK,#4
38	1	WWL6	W ASHER,LOCK,#6
39	4	WWL8	W ASHER,LOCK,#8
40	4	WWL10	W ASHER,LOCK,#10



1359124 RIGHT PEDAL

AAC Drawing Number 1359124 Rev 1

NO	QTY	PART	DESCRIPTION
1	1	1975-412A	PLATE,NUT,4-40,.95CTC
2	1	1359133	PAD, RIGHT FOOT
3	1	1359189	BRKT, FOOT SAFETY
4	1	1359267	PEDAL, RIGHT
5	1	A-2014-39	MICRO SWITCH
6	2	BB6384K367	BEARING, FLANGED, 3/4ID
7	2	BBTT604	BEARING,BRONZE,.385ID
8	1	NNE5/16-18	NUT,ELASTIC LOCK,5/16-18
9	1	SSAS024024	SHOULDER BOLT 3/8 X 3/8L
10	2	SSSC70048	4-40 X 3/4 SOCKET CAP
11	2	TTAA5267	TERMINAL, FE,INS,18-22
12	2	WWF4	WASHER, FLAT, #4
13	2	WWL4	WASHER,LOCK,#4

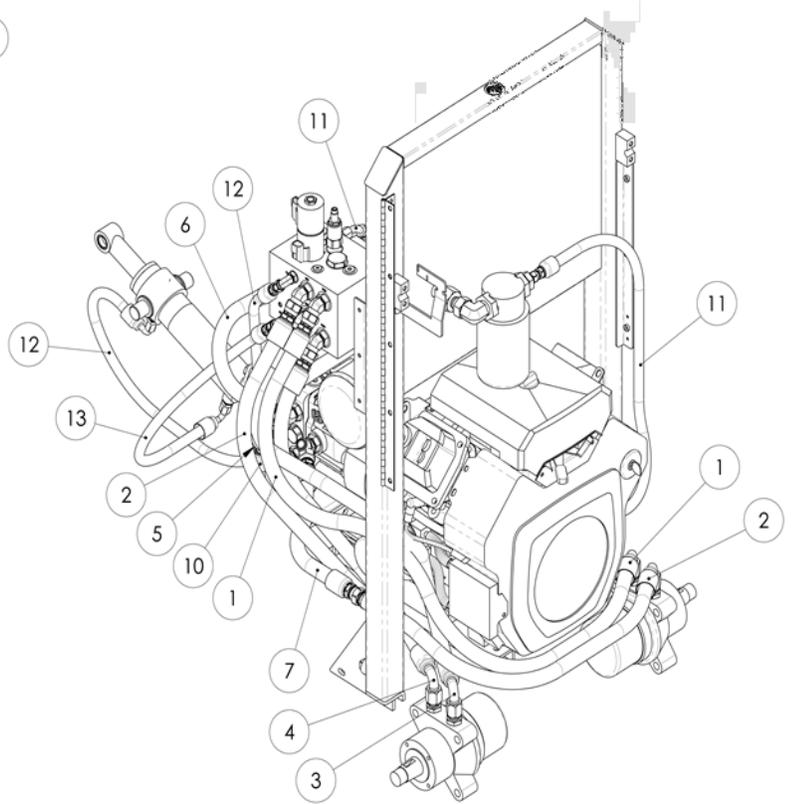
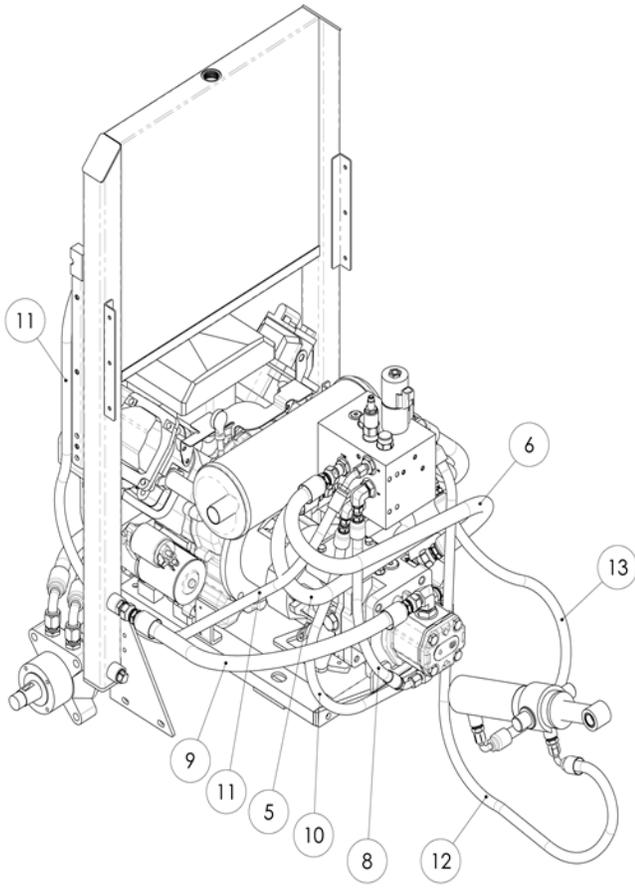


11359A-HYD-1 HYDRAULIC ASSY

AAC Drawing Number 9006731 Rev 1

NO	QTY	PART #	DESCRIPTION
1	1	151H3084	HYD WHEEL MOTOR,4514 IP
2	1	151H3094	HYD WHEEL MOTOR,4514 IP
3	2	6/6/2404	MALE JIC - MALE PIPE SAE
4	1	6/12/2404	FITTING, HYDRAULIC, STRT
5	2	10/8/2404	MALE JIC - MALE PIPE SAE
6	1	12/12/2501	FITTING, HYDRAULIC, 90D
7	1	6400-06-10-O	06MJ-10MORB STRAIGHT
8	3	6400-08-10-O	08MJ-10MORB STRAIGHT
9	4	6400-10-10-O	10MJ-10MORB STRAIGHT
10	1	12/12/6506	FITTING, HYDRAULIC, STSW
11	2	6801-06-06-NWO-FG	06MJ-06MAORB 90° ELB
12	3	6801-06-10-NWO-FG	06MJ-10MAORB 90° ELB
13	1	6801-10-12-NWO-FG	10MJ-12MAORB 90° ELB
14	7	6802-10-10-NWO-FG	10MJ-10MAORB 45° ELB
15	2	HF4638K824	HYD,PLUG,1/2-14 NPT
16	1	HF97095-14	HYD MANIFOLD W/VALVES
17	1	HY1112013000	HYDRAULIC PUMP,GEAR
18	1	HYMPV025C	HYDRAULIC PUMP,PISTON

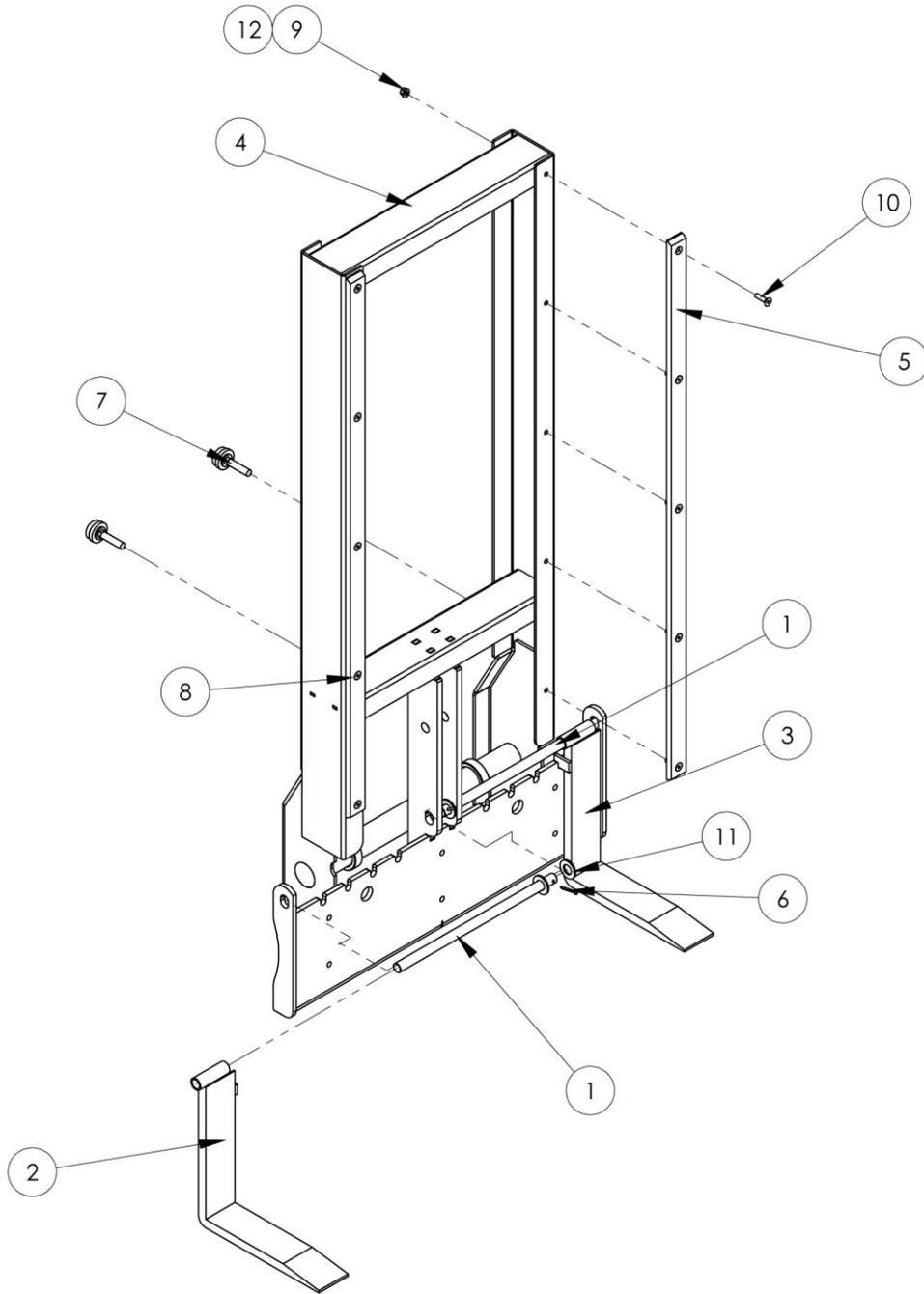
NOTE: CONTINUOS NEXT PAGE



11359A-HYD-2 HYDRAULIC ASSY

AAC Drawing Number 9006731

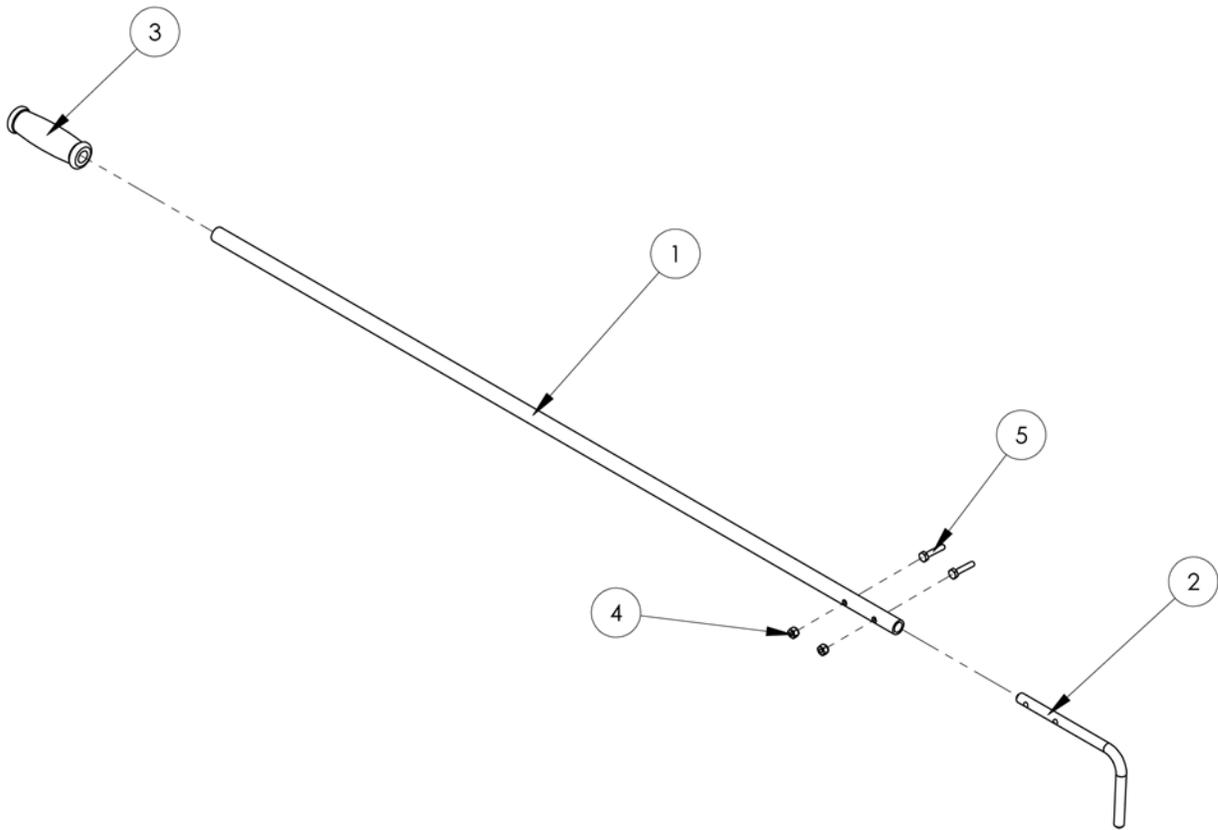
NO	QTY	PART #	DESCRIPTION
1	1	11359A HOSE 1	HOSE 1
2	1	11359A HOSE 2	HOSE 2
3	1	11359A HOSE 3	HOSE 3
4	1	11359A HOSE 4	HOSE 4
5	1	11359A HOSE 5	HOSE 5
6	1	11359A HOSE 6	HOSE 6
7	1	11359A HOSE 7	HOSE 7
8	1	11359A HOSE 8	HOSE 8
9	1	11359A HOSE 9	HOSE 9
10	1	11359A HOSE 10	HOSE 10
11	1	11359A HOSE 11	HOSE 11
12	1	11359A HOSE 12	HOSE 12
13	1	11359A HOSE 13	HOSE 13



1359035 FORK FRAME ASSY

AAC Drawing Number 1359035 Rev 1

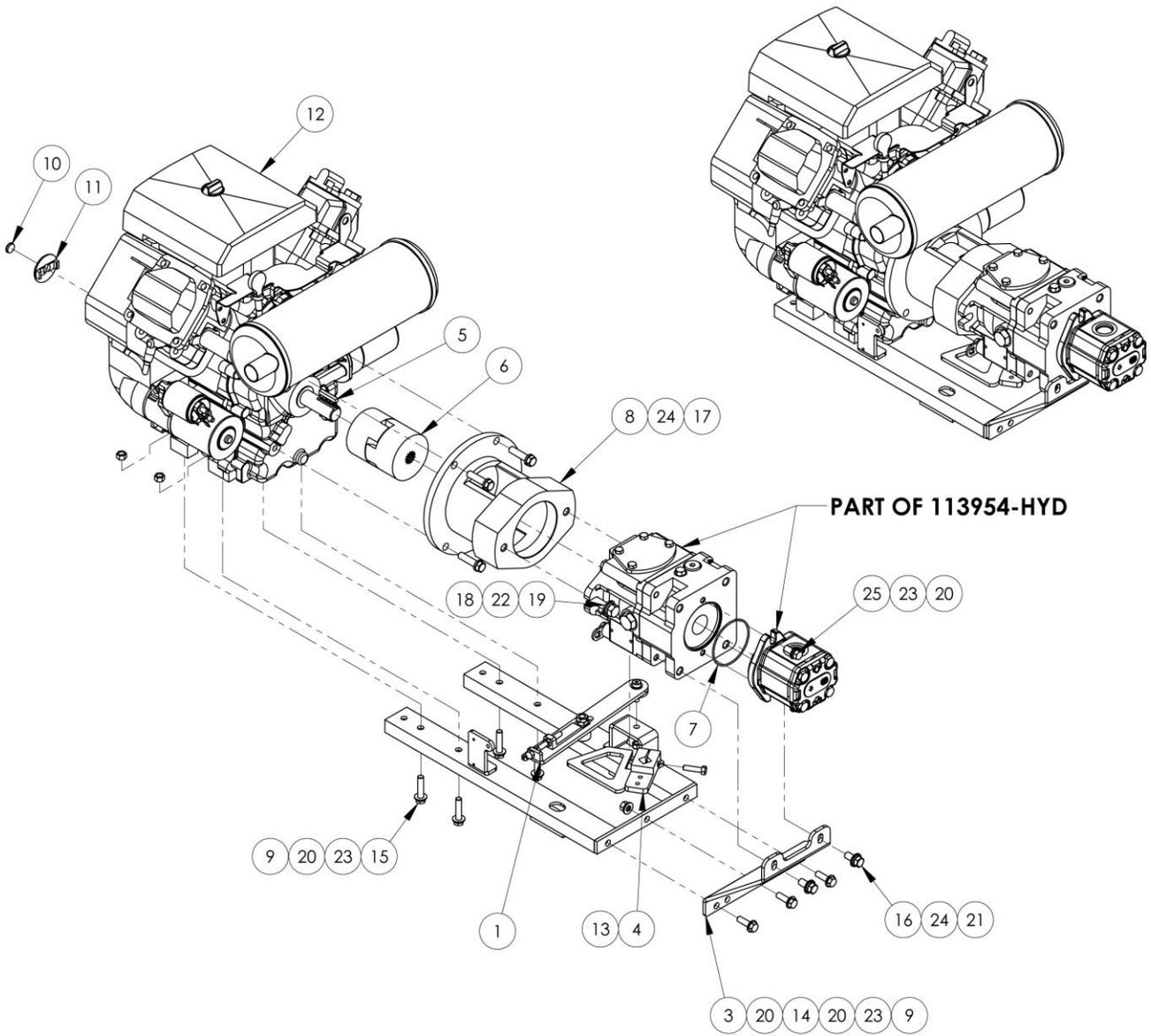
NO	QTY	PART #	DESCRIPTION
1	2	1359002	SHAFT, FORK PIVOT
2	1	1359006	RIGHT FORK
3	1	1359007	LEFT FORK
4	1	1359017	WELDMENT, FORK TILT
5	2	1359402	WEAR PADS, LIFT
6	2	MM98338A225	COTTER PIN, 1/8 X 2 1/2
7	2	MMFB4444	FOOT, RUBBER
8	2	NNE1/2-13	NUT,NYLOCK,1/2-13
9	10	NNE5/16-18	NUT,ELASTIC LOCK,5/16-18
10	10	SSFC10080	5/16-18 X 1-1/4 FLAT CAP
11	2	WWFS3/4	WASHER, .797ID X 1-1/2OD
12	10	WWFS5/16	WASHER,FLAT,SAE,5/16



1359354 HOOK, SPRING BUNDLE

AAC Drawing Number 1359354 Rev 0

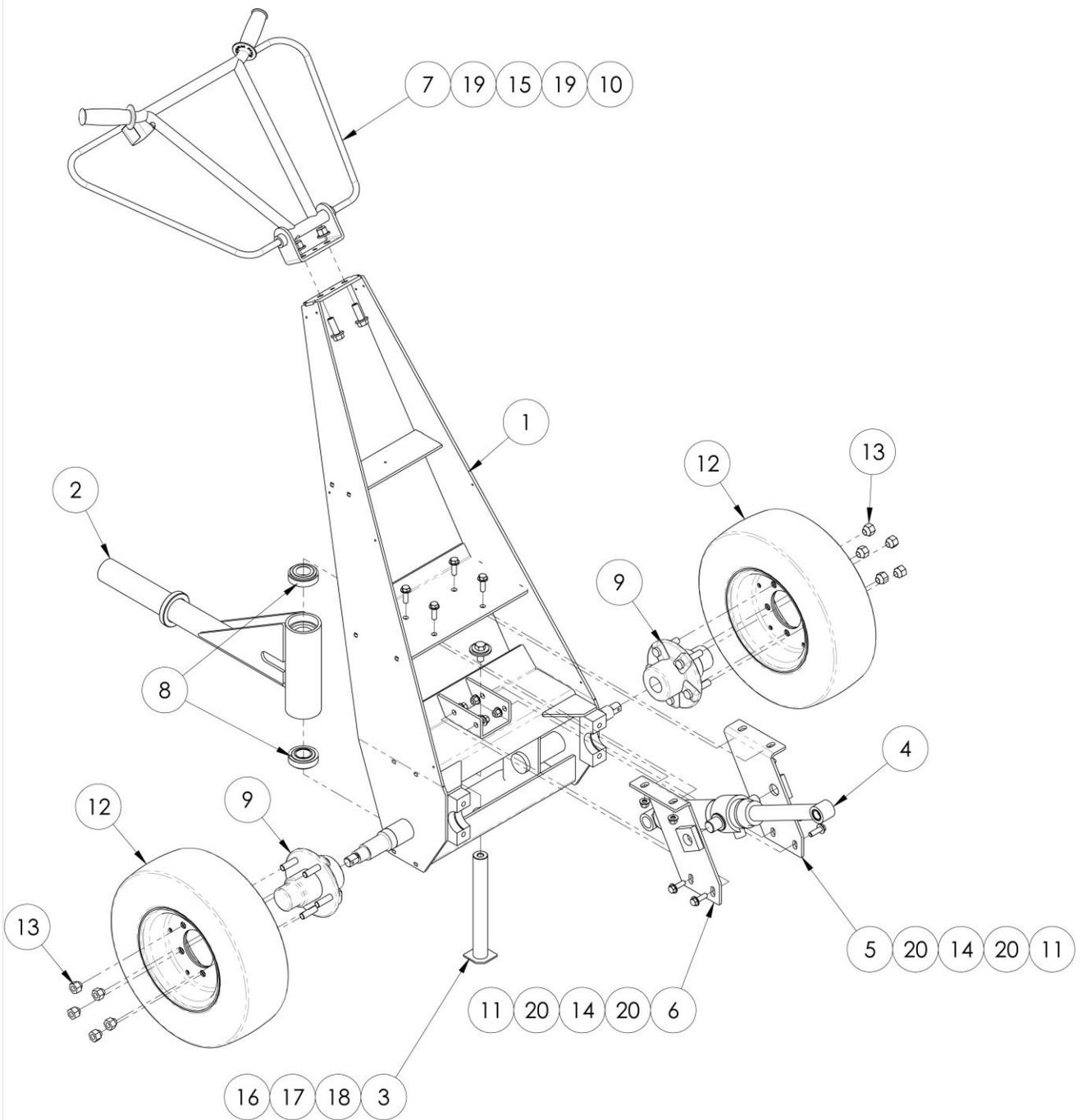
NO	QTY	PART #	DESCRIPTION
1	1	1359352	ROD, SPRING BUNDLE HOOK
2	1	1359353	HOOK, SPRING BUNDLE
3	1	MMGP-105	GRIP HANDLE-FOAM 3/4 ID
4	2	NNE1/4-20	NUT, ELASTIC LOCK, 1/4-20
5	2	SSHCO1080	1/4-20 X 1-1/4 HHCS



1359478 MOTOR PUMP ASSEM.

AAC Drawing Number 1359478 Rev 0

NO	QTY	PART #	DESCRIPTION
1	1	1002880	CAM FOLLOWER ARM
2	1	1359116	MOUNT, MOTOR
3	1	1359119	MOUNT, GEAR PUMP
4	1	1359344	CAM, MODIFIED
5	1	1359384	ENGINE COUPLE KEY
6	1	HYL110N1191	COUPLING,DRIVE
7	1	MM90041001520	O-RING,3.25ID,.094 THICK
8	1	MMG212056	ENGINE-PUMP ADAPTER 1359
9	7	NNH3/8-16	NUT,HEX,3/8-16
10	1	PPP2513917S	PLUG, 1/2" BUTTON
11	1	PPP2513976S	PLUG, KEY SWITCH
12	1	PPPACH6403003	ENGINE,20HP,PROPANE
13	1	SSHHC20080	5/16-24 X 1-1/4 HEX CAP
14	3	SSHHC25080	3/8-16 X 1-1/4 HHCS
15	4	SSHHC25112	3/8-16 X 1-3/4 HEX HEAD
16	2	SSHHC38064	7/16-14 X 1 HEX CAP
17	4	SSHHC38112	7/16-14 X 1-3/4 HEX CAP
18	2	SSHHC45128	1/2-13 X 2,HEX CAP
19	2	WWFS1/2	WASHER,FLAT,1/2, SAE
20	12	WWFS3/8	WASHER,FLAT,SAE,3/8
21	2	WWFS7/16	WASHER,FLAT,7/16
22	2	WWL1/2	1/2 LOCK WASHER
23	9	WWL3/8	WASHER,LOCK, 3/8
24	6	WWL7/16	WASHER,LOCK,7/16
25	1	SSHHC25064	3/8-16 X 1,HEX CAP



1359556 STEERING ASSY.

AAC Drawing Number 1359556 Rev 0

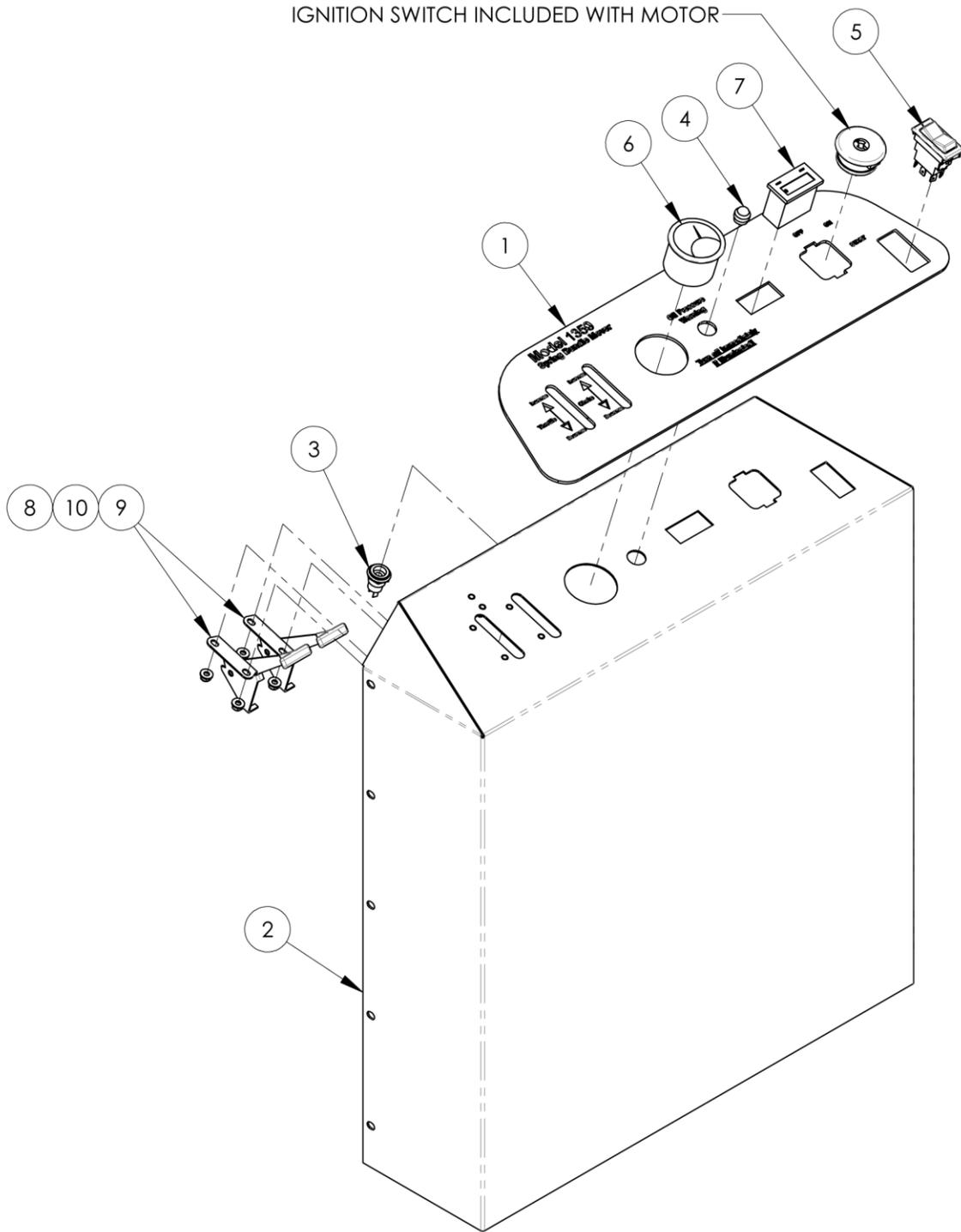
NO	QTY	PART #	DESCRIPTION
1	1	1359045	FRAME, STEERING
2	1	1359094	ARM, LINK
3	1	1359159	ROD, FRAME ALIGNMENT
4	1	1359270	FRONT TRUNNION WELDMENT
5	1	1359306	BRKT, LEFT TRUNNION
6	1	1359307	BRKT, RIGHT TRUNNION
7	1	1359373	HANDLE BAR ASSEM
8	2	1359428	BEARING, CONE & CUP
9	2	MM125008M	TRAILER HUB, 5 BOLT, MOD.
10	2	NNE1/2-13	NUT, NYLOCK, 1/2-13
11	8	NNE3/8-16	NUT, ELASTIC 3/8-16
12	2	PPP4808	WHEEL, SOLID, 4X16
13	10	PPP611016	NUT, LUG, 1/2-20
14	8	SSHHC25080	3/8-16 X 1-1/4 HHCS
15	2	SSHHC45096	1/2-13X1-1/2 HEX CAP
16	1	SSHHC46080F	1/2-20X1-1/4 HEX CAP
17	1	WWF1/2	WASHER, FLAT, 1/2
18	1	WWF5/8	WASHER, FLAT, 5/8
19	4	WWFS1/2	WASHER, FLAT, 1/2, SAE
20	16	WWFS3/8	WASHER, FLAT, SAE, 3/8



1359373 HADBLE BAR ASSEM.

AAC Drawing Number 1359373 Rev 1

NO	QTY	PART #	DESCRIPTION
1	1	1359168	HANDLES
2	2	PPP97045K57	GRIP,RIBBED VINYL

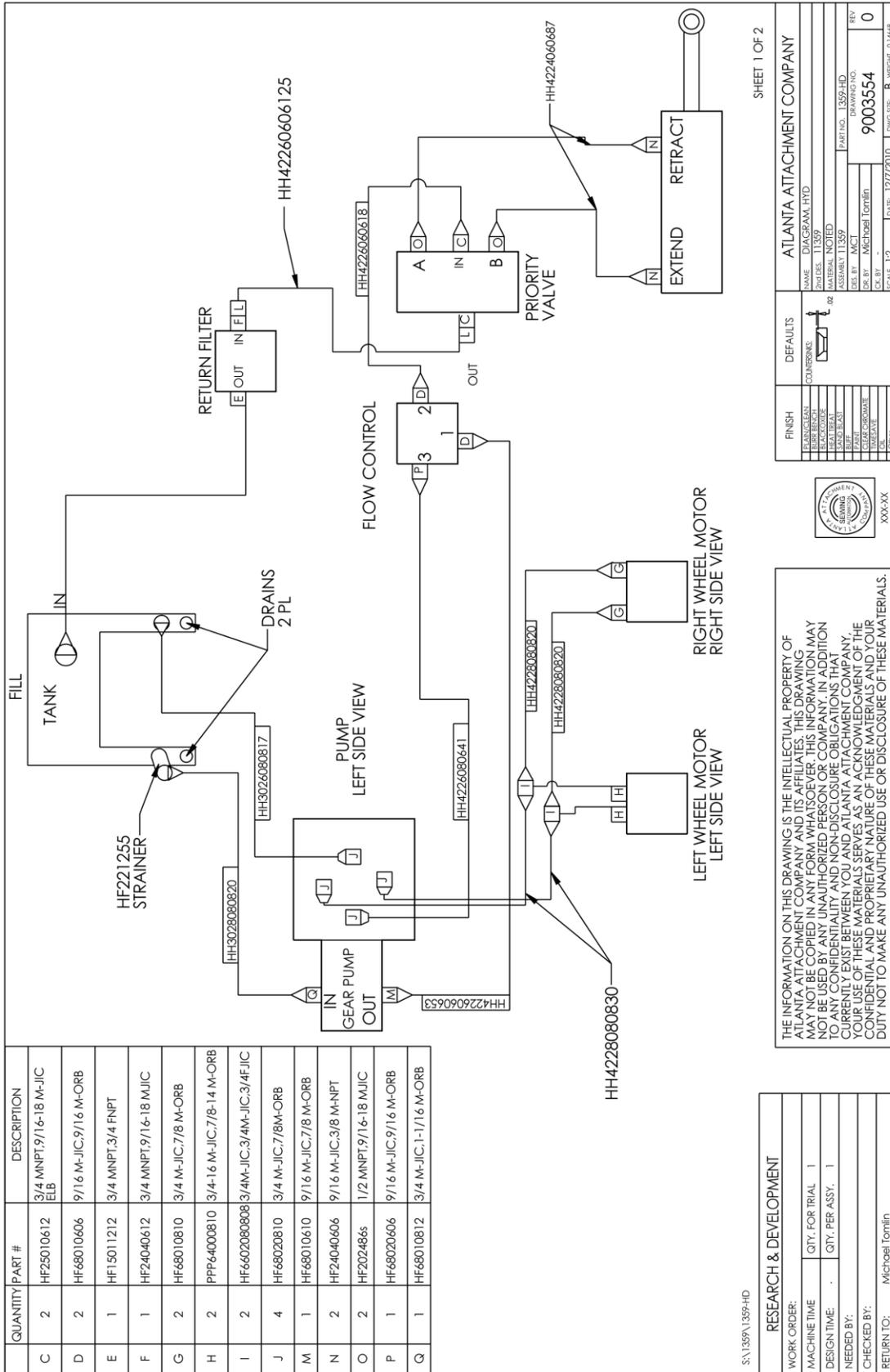


1359557 CONSOLE ASSY.

AAC Drawing Number 1359557 Rev 0

NO	QTY	PART #	DESCRIPTION
1	1	1359A-LAB1A	LABEL, DASH
2	1	1359482	COVER, WELDMENT
3	1	A-2014-43	SOCKET, LAMP
4	1	A-2014-43L	LENS, RED
5	1	EE24M3281	SWITCH, ROCKER, ON-OFF-ON
6	1	EE6268	VOLT GUAGE, 2" DIA
7	1	FF79998861	HOUR METER, 8 DIGIT LCD
8	4	NNE10-32	NUT, ELASTIC LOCK
9	2	PPPDC122046	THROTTLE LEVER/CABLE
10	4	WWFS10	WASHER, FLAT, #10, SAE

1359-HD Hydraulic Diagram



QUANTITY	PART #	DESCRIPTION
C 2	HF25010612	3/4 MNPT,9/16-18 M-JIC ELB
D 2	HF68010606	9/16 M-JIC,9/16 M-ORB
E 1	HF15011212	3/4 MNPT,3/4 FNPT
F 1	HF24040612	3/4 MNPT,9/16-18 MJIC
G 2	HF68010810	3/4 M-JIC,7/8 M-ORB
H 2	PPP64000810	3/4-16 M-JIC,7/8-14 M-ORB
I 2	HF6602080808	3/4M-JIC,3/4M-JIC,3/4FJIC
J 4	HF68020810	3/4 M-JIC,7/8M-ORB
M 1	HF68010610	9/16 M-JIC,7/8 M-ORB
N 2	HF24040606	9/16 M-JIC,3/8 M-NPT
O 2	HF202486s	1/2 MNPT,9/16-18 MJIC
P 1	HF68020606	9/16 M-JIC,9/16 M-ORB
Q 1	HF68010812	3/4 M-JIC,1-1/16 M-ORB

SHEET 1 OF 2

NAME: ATLANTA ATTACHMENT COMPANY	
DIAGRAM: HTD	
ISSUES: NOTED	
ASSEMBLY: 11359	
DATE: 12/7/2010	SCALE: 1:2
DESIGNER: Michael Tomlin	DWG. NO.: 9003554
CHECKED BY:	REV: 0
DATE:	WEIGHT: 0.1668

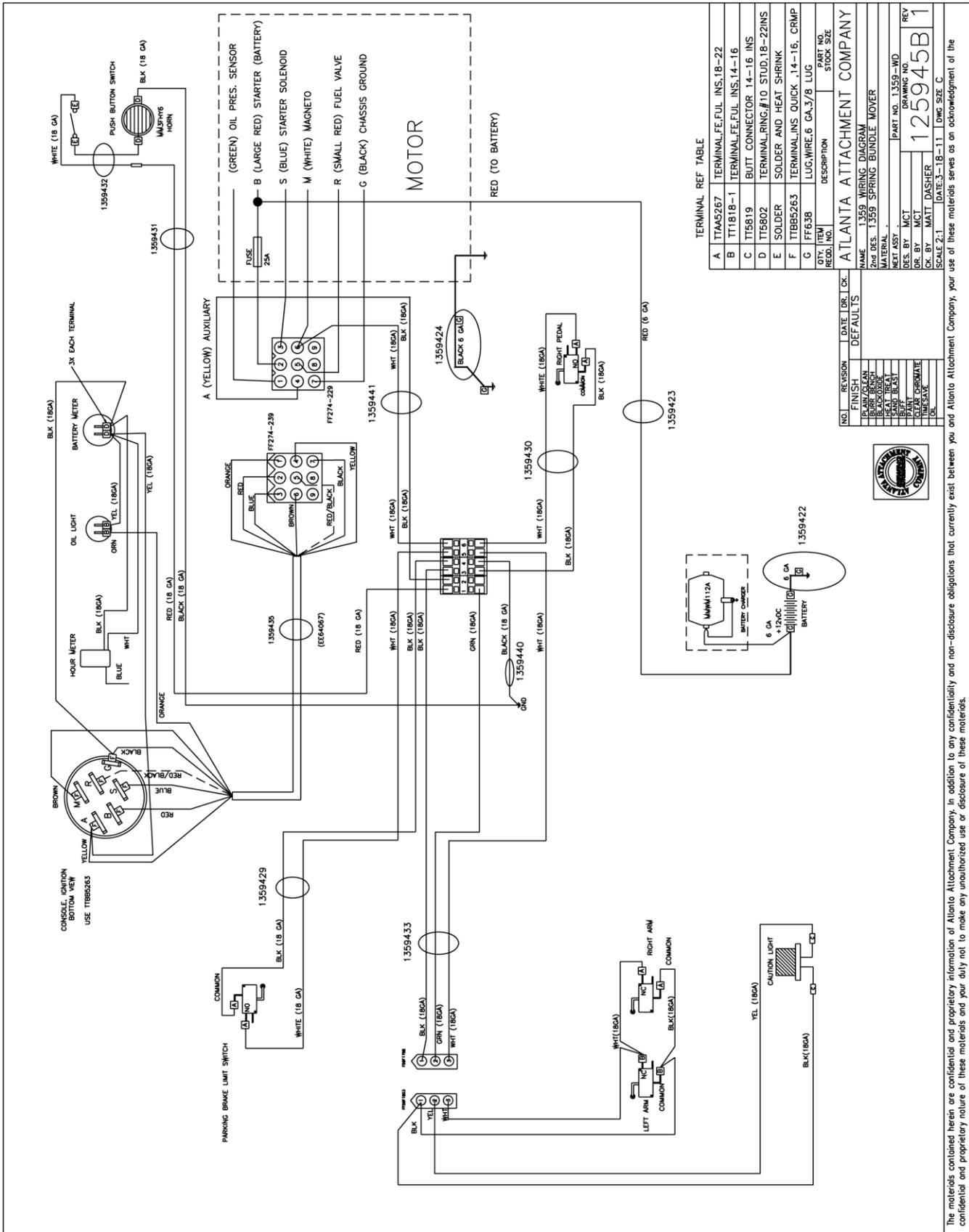
ATLANTA ATTACHMENT COMPANY

XXX-XXX

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RESEARCH & DEVELOPMENT	
WORK ORDER:	QTY: FOR TRIAL 1
MACHINE TIME:	QTY: PER ASSY. 1
DESIGN TIME:	
NEEDED BY:	
CHECKED BY:	
RETURN TO:	Michael Tomlin

1359-WD Wiring Diagram



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

Términos y Condiciones:

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

Lo Que Está Garantizado

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

Lo Que No Está Garantizado

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



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