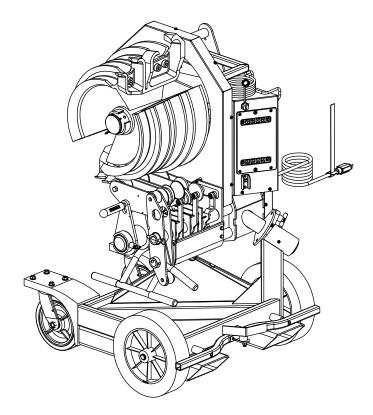
SERVICE MANUAL





855GX IntelliBENDER® Electric Bender



Read and **understand** all of the instructions and safety information in this manual before operating or servicing this tool.



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Safety

Safety is essential in the use and maintenance of Greenlee tools and equipment. This manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

Purpose of this Manual

This manual is intended to familiarize authorized Greenlee service center personnel with the safe operation and maintenance procedures for the Greenlee 855GX Electric Bender.

Keep this manual available to all personnel.

Replacement manuals are available upon request at no charge at www.greenlee.com.

Other Publications

Instruction Manual: Publication 52055798



Do not discard this product or throw away! For recycling information, go to www.greenlee.com.

All specifications are nominal and may change as design improvements occur. Greenlee Tools, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. IntelliBENDER is a registered trademark of Greenlee Tools, Inc.

KEEP THIS MANUAL



IMPORTANT SAFETY INFORMATION



SAFETY ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

ADANGER

Immediate hazards which, if not avoided, WILL result in severe injury or death.

AWARNING

Hazards which, if not avoided, COULD result in severe injury or death.

ACAUTION

Hazards or unsafe practices which, if not avoided, MAY result in injury or property damage.

ADANGER



Read and understand all of the instructions and safety information in this manual before operating or servicing this tool. Refer also to the Instruction Manual, which is listed under "Other Publications."

Failure to observe this warning will result in severe injury or death.

ADANGER



Do not use this tool in a hazardous environment. Hazards include flammable liquids, gases, or other materials. Using this tool in a hazardous environment can result in a fire or explosion.

Failure to observe this warning will result in severe injury or death.

AWARNING

Electric shock hazard:



- Connect the power cord to a 120 volt, 20 amp receptacle on a ground fault protected circuit only. Refer to "Grounding Instructions."
- Do not modify the power cord or plug.
- Inspect the power cord before use. Repair or replace the cord if damaged.
- Disconnect the unit from power before servicing.

Failure to observe this warning could result in severe injury or death.

AWARNING

For continued protection against risk of fire and electric shock, replace ONLY with same manufacturer, type, and rating of fuse. Refer to the "Maintenance" section of the Instruction Manual, which is listed under "Other Publications."

Failure to observe this warning could result in severe injury or death.

AWARNING



- Do not use in dangerous environment. Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
- Do not immerse the pendant switch in water or any other liquid.

Failure to observe these warnings could result in severe injury or death.

AWARNING



Always use safety glasses. Everyday glasses only have impact resistant lenses; they are NOT safety glasses. When using in dusty environment, use face or dust mask.

Failure to wear eye protection could result in serious eye injury from flying debris.



IMPORTANT SAFETY INFORMATION



AWARNING

- Keep guards in place and in working order.
- Remove any tools from bender before operating. Form habit of checking to see that all tools are removed from bender before turning it on.

Failure to observe these warnings could result in severe injury or death.

AWARNING

- Reduce the risk of unintentional starting. Make sure switch is in off position before plugging in.
- Never leave tool running unattended. Turn power off. Do not leave tool until it comes to a complete stop.
- Disconnect tools before servicing and when changing accessories such as shoes, rollers, and the like.
 Accidental start-up could result in serious injury.

Failure to observe these warnings could result in severe injury or death.

AWARNING

Extension cords:



- Use only three-wire, 12 AWG extension cords that have three-prong grounding-type plugs and three-hole receptacles that accept the tool's plug.
- Do not use extension cords that are longer than 30 m (100').
- Repair or replace damaged extension cords.

Failure to observe these warnings could result in severe injury or death.

AWARNING

- Never stand on tool. Serious injury could occur if the tool is tipped.
- Do not overreach. Keep proper footing and balance at all times.

Failure to observe these warnings could result in severe injury or death.

AWARNING



Pinch points:

- Keep hands away from bending shoe, rollers, and conduit when bender is in use.
- Support conduit when unloading.
 Conduit can become loose and fall if not properly supported.

Failure to observe these warnings could result in severe injury or death.

AWARNING

Adjust fork spacing to match fork tubes on bender. Ensure brake is engaged before inserting forks into fork tubes.

Failure to observe this warning could result in severe injury or death.

ACAUTION

- Set the switches to the appropriate conduit size and type before bending.
- Select the appropriate shoe groove and support roller for the type and size of conduit before bending.
- Do not bend conduit over 93 degrees. Overbending could result in the other shoe hook colliding with the conduit.

Failure to observe these precautions may result in injury or property damage.



IMPORTANT SAFETY INFORMATION

ACAUTION

- Conduit moves rapidly as it is bent. The path of the conduit must be clear of obstructions. Be sure clearance is adequate before starting the bend.
- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
- Do not force rollers or alter tool. It will do the job better and safer at the rate for which it was designed.
- Use right tool. Do not force tool or attachment to do a job for which it was not designed.
- Use this tool for the manufacturer's intended purpose only. Use other than that which is instructed in this manual can result in injury or property damage.

Failure to observe these precautions may result in injury or property damage.

ACAUTION

- Keep work area clean. Cluttered areas and benches invite accidents.
- Keep children away. All visitors should be kept safe distance from work area.
- Make workshop kid proof with padlocks, master switches, or by removing starter keys.

Failure to observe these precautions may result in injury or property damage.

ACAUTION

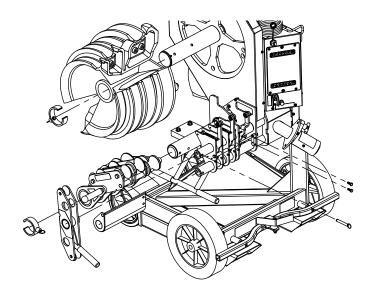
- Inspect the bender before use. Replace worn, damaged, or missing parts with Greenlee replacement parts. A damaged or improperly assembled component could break and strike nearby personnel.
- Maintain tools with care. Keep tool clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- Use recommended accessories. Consult the instruction manual for recommended accessories.
 The use of improper accessories may cause risk of injury to persons.
- Some bender parts and accessories are heavy and may require more than one person to lift and assemble.

Failure to observe these precautions may result in injury or property damage.

Note: Keep all decals clean and legible, and replace when necessary.

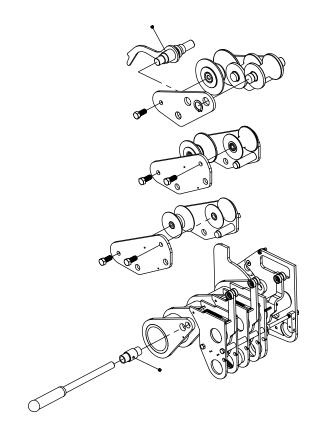


Service Instructions



Roller Assembly Removal

- Remove the lock collars that retain the roller assembly and shoe.
- 2. Remove the shoe.
- Remove the detent pin and 1" roller support along with handle.
- 4. Remove the two screws that attach the switch guard and slide the guard off the frame tubes.
- Disconnect the roller return spring from the roller arm weldment.
- 6. Disconnect the spring from the 1-1/2" rollers group.
- 7. Slide the roller assembly and the roller support assembly outward together about an inch until the 2" tail roller shaft is free from the slot in the roller stop plate.
- 8. Rotate the roller assembly counterclockwise until the roller plates are clear of the support plates.
- 9. Slide the roller assembly out to remove.
- 10. Reassemble in reverse order noting the following: When sliding the roller assembly onto the support shaft, keep the arm weldment between the 12 and 1 o'clock position to prevent damaging the arm position switch.

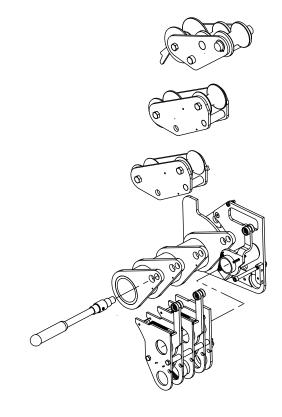


Roller Assembly Disassembly

- Loosen the set screw on the collar that secures the roller engagement handle, and pull out the handle, 1-1/4" roller group, and 1-1/2" roller group.
- 2. Loosen the set screw on the cam release mechanism, pull or drive out the pivot shaft, and remove the 2" roller group.
- 3. Disassemble the 1-1/4" roller group.
 - a. Remove the two hex screws securing the outer plate and the outer plate.
 - b. Remove the two rollers.
 - c. Reassemble in reverse order noting the following:
 - The slightly larger diameter roller mounts to the left.
 - Apply molybdenum grease to the roller shafts.



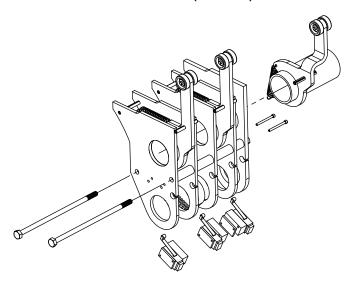
- 4. Disassemble the 1-1/2" roller group.
 - a. Remove the two hex screws securing the outer plate and the outer plate.
 - b. Remove the tail roller.
 - c. Remove the O-rings, pivot balls, split rollers, and belleville washers noting their orientation.
 - d. Reassemble in reverse order noting the following:
 - Assemble the Belleville washers so they form a "V" open outward.
 - Place the O-rings between the split rollers until both screws have been tightened and then slip them over the split rollers so they form a seal between the rollers and the pivot ball.
 - Apply molybdenum grease to the tail roller shaft and pivot balls.
- 5. Disassemble the 2" roller group.
 - Remove the hex screw, retaining ring, and outer plate.
 - Remove the middle roller, middle shaft, tail roller, and tail shaft.
 - Remove the O-rings, pivot balls, split rollers, and spacer.
 - d. Reassemble in reverse order noting the following:
 - Place the O-rings between the split rollers until the screw has been tightened and then slip them over the split rollers so they form a seal between the rollers and the pivot ball.
 - Apply molybdenum grease to the middle roller shaft and pivot balls.
- 6. Reassemble the full assembly in reverse order noting the following:
 - a. The end of the 2" pivot shaft should be flush outside of the adjacent arm.
 - b. The end of the engagement handle should be flush with the inside of the same arm.
 - c. The cam release mechanism should be installed with the spring on the inboard side of the lever.
 - d. The tail of the 1-1/4" roller group must be trapped below the tail of the 1-1/2" roller group.



Roller Support Assembly Removal

- 1. Remove the roller assembly (refer to previous instruction).
- 2. Disconnect the trip switch cable.
- 3. Slide the roller support assembly off the frame tubes complete with the three trip lever assemblies.
- 4. Reassemble in reverse order noting the following:
 - a. Make sure that the stop rollpin for the 2" trip lever is butted up against the side of the 2" support plate as the assembly is slid onto the frame tubes to avoid damaging the limit switch.
 - Fit the spring retainer with the two springs over the lower frame tube between the second and third support plates (as counted from the outside).

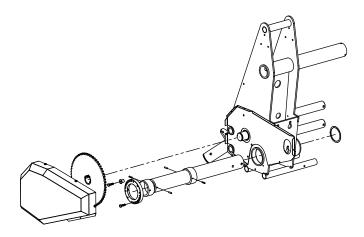




Roller Support Assembly Disassembly

- Remove the two hex nuts securing all the support plates.
- 2. Remove the 2" trip lever.
- 3. Remove the two screws securing the 2" trip switch and remove the switch and threaded plate.
- 4. Pull the limit switch wires out of the fifth support plate keyhole and remove the plate and two short spacers.
- 5. Remove the two screws securing the 1-1/2" trip switch and remove the switch and threaded plate.
- 6. Pull the limit switch wires out of the fourth support plate keyhole, pry the plate from the rollpin, and remove the plate, two long spacers, and trip lever.
- 7. Pull the limit switch wires out of the third support plate keyhole and remove the plate and two long spacers.
- 8. Remove the two screws securing the 1-1/4" trip switch and remove the switch and threaded plate.
- Pull the limit switch wires out of the second support plate keyhole, pry the plate from the rollpin, and remove the plate, two long spacers, trip lever, and limit switch wire harness.
- 10. Remove the screws from the first support plate.
- 11. Reassemble in reverse order noting the following:
 - a. Slip joint pliers can be used to press the spring anchor rollpins into the support plates by squeezing the plates together over the rollpin.
 - b. Slide the completed assembly onto the frame tubes with the nuts loose and tighten on the frame to ease mounting and future removal.

c. With the assembly fully pushed in, the tip of the right side 6" screw should fit inside the hex head of the 5/16" screw attached to the roller stop plate. The 2" trip lever should pivot without being pinched between the roller stop plate and roller support assembly. If it is pinched, adjust the 5/16" screw so it is not pinched.

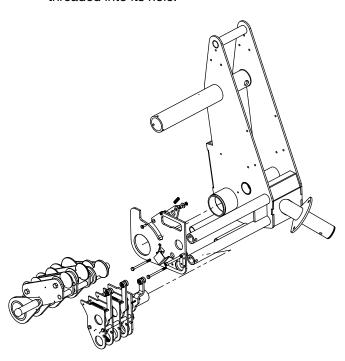


Eccentric Roller Shaft

- Remove the roller assembly (refer to previous instruction).
- Remove the fiber thrust washer from the front of the shaft.
- 3. Remove seven screws and rear chain guard.
- Remove two screws securing squeeze adjuster and the retainer on the top screw. Note which hole the lower screw is in.
- 5. Remove the adjuster.
- Remove the rollpins by driving them into the ID of the shaft.
- 7. Pull out the shaft from the front and the rear eccentric from the rear.
- Remove the front eccentric same as the rear if needed.
- 9. Reassemble in reverse order noting the following:
 - a. Slide the front eccentric over the shaft so the 3/16" holes are closest to the rear.
 - b. Drive the rollpins into the holes so that they do not protrude.
 - c. Lubricate the eccentrics with molybdenum grease.
 - d. Insert the shaft into the frame from the front.
 - e. Insert the rear eccentric into the frame and over the shaft so the 3/16" holes are visible.
 - f. Align the holes in the eccentric and shaft together, making sure that thick part of both eccentrics are oriented together.

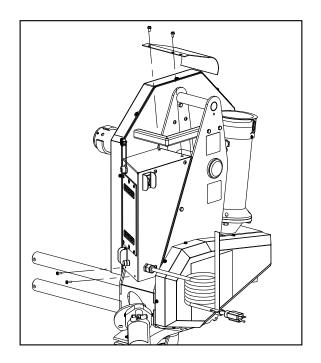


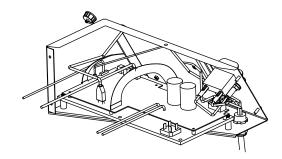
- g. Drive the rollpins into the holes leaving 1/4" protruding on both sides.
- h. Orient the shaft so that the thick part of the eccentric is at 3 o'clock as viewed from the rear of the bender.
- i. Place the adjuster over the rear eccentric so that the original hole used is on the right side.
- Insert the hex screw through the retainer so screw head abuts the flange and screw into the top hole.
- Insert the second screw into the original hole and rotate the shaft until the screw can be threaded into its hole.



Roller Stop Plate

- Remove the roller assembly (refer to previous instruction).
- 2. Remove the roller support assembly (refer to previous instruction).
- Remove the two screws and nuts securing the roller stop plate.
- 4. Slide the roller stop plate off the shafts.
- 5. Remove the cam spring.
- Remove the flat head screw, nut, washer, spacer, and cam.
- 7. Reassemble in reverse order.

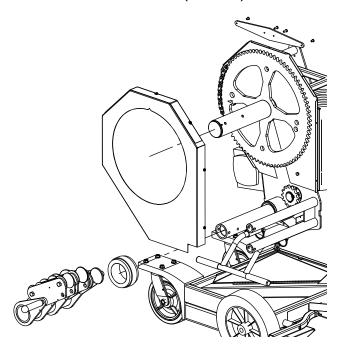




Outer Control Box

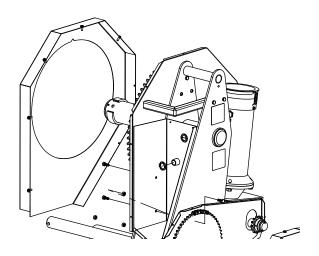
- Remove the two screws at the bottom front of the control box (right side of bender).
- Remove the two screws at the top rear of the control box and remove the wire cover.
- 3. Lift the outer control box up and outward.
- 4. Pull off the two motor leads from the circuit board noting their orientation.
- 5. Pull off the encoder cable from the circuit board.
- 6. Pull off the trip switch wire harness.
- Reassemble in reverse order noting the following:
 Connect motor leads to same tabs as removed from.





Front Drive Chain

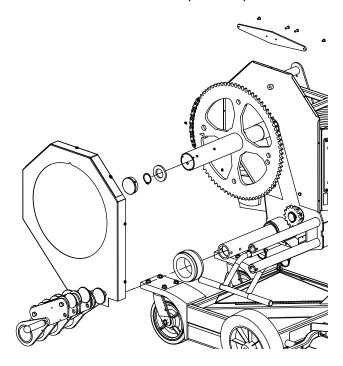
- 1. Remove the roller stop plate (refer to previous instruction).
- 2. Remove the seven screws and the front guard.
- Position the chain master link between the 10 and 11 o'clock position.
- 4. Remove the plastic chain stay roller.
- Remove the two center screws securing the chain guard stiffener along with the three screws securing the back guard, and remove back guard.
- 6. Remove the master link and chain.
- 7. Reassemble in reverse order noting the following:
 - a. Use new cotter pins to attach the drive chain.
 - b. A new chain will be tight. Place one end of the chain at 10–11 o'clock position and wrap the remainder over the top of the big sprocket, down and around the drive sprocket, and back up to the big sprocket. Ensure that there is no slack anywhere and hold the chain against the outside of the sprocket. Force the chain into the sprocket teeth at the point where it first contacts the sprocket. (A rubber hammer may be used to persuade the chain.) While holding the chain in the sprocket teeth, fit the rest of the chain onto the sprocket. Fit the connecting link.



Inner Control Box

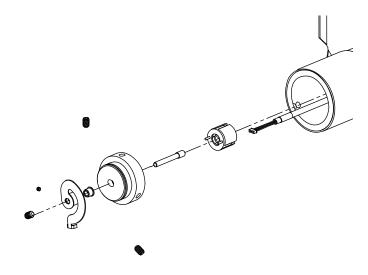
- 1. Remove or loosen roller stop plate (refer to previous instruction for removal or to pull roller assembly and roller support assembly outward about an inch).
- Remove outer control box (refer to previous instruction).
- 3. Remove seven screws and rear chain guard.
- 4. Remove seven screws and front chain guard.
- Remove the conduit nut securing the SealTite conduit to the control box.
- Pull the encoder and trip switch cables out through the bushing.
- 7. Remove the hex nut inside the chain guard, and back out the screws holding the control box.
- 8. Slide out the inner control box.
- 9. Reassemble in reverse order.





Front Sprocket Assembly

- 1. Remove the front drive chain (refer to previous instruction).
- Screw in the three set screws securing the spindle cap about four turns and pull off the cap.
- Push the sprocket fully inward to gain access to the retaining ring.
- 4. Remove the retaining ring and large washer.
- 5. Slide the sprocket weldment off the bender.
- 6. Reassemble in reverse order noting the following:
 - a. With the sprocket pushed back against the frame, press the outer part of the torque arm into the slot of the spindle cap along the axis of the spindle. Slide the sprocket fully outward while fitting the cap into the spindle.
 - b. Do not tighten the set screws so they protrude beyond the outer diameter of the spindle.

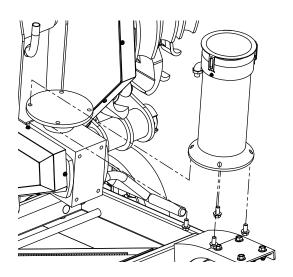


Encoder Assembly

- Remove front sprocket assembly (refer to previous instruction).
- Remove the outer control box (refer to previous instruction).
- Disconnect the encoder cable and pull cable out of inner control box bushing.
- Screw in the three set screws securing the encoder mount about four turns and pull out the mount complete with encoder and cable. Feed the cable through the spindle while pulling the encoder mount out.
- 5. Pull off the encoder cable.
- 6. Remove the encoder cover by prying out the plastic locking tabs.
- Remove the two socket head screws securing the encoder case.
- 8. Pull the encoder magnet off the shaft.
- Loosen the set screw securing the torque arm and remove it and the thrust washer.
- 10. Pull out the encoder shaft.
- 11. Reassemble in reverse order noting the following:
 - a. Press the magnet onto the shaft 0.002" from the base.
 - b. After securing the torque arm to the shaft, ensure that the shaft turns freely.
 - c. Pry the decorative cap from the rear end of the spindle shaft to gain access for feeding the encoder cable through the grommet to the control box.

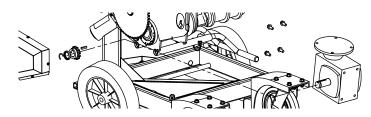


- d. Re-zero the bender after bender assembly is complete minus the shoe:
 - Position the drive sprocket so that the spoke with two holes is around the three o'clock position
 - Accurately align the hole now at the 12 o'clock position with the round centering hub behind the sprocket.
 - Set the zero point to memory by pressing and holding the CLEAR button on the pendant and then pressing the JOG button simultaneously.



Motor

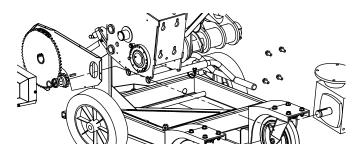
- Remove the outer control box (refer to previous instruction).
- Pull off the two motor leads from the circuit board noting their orientation.
- 3. Disconnect the SealTite connector at the motor.
- 4. Remove the four screws attaching the motor to the gearbox. (If access to the front inside screw is not attainable with a 7/16" flex socket or stubby wrench, access can be gained by removing the front sprocket assembly and the front guard backing plate.)
- Pull off the motor while feeding the motor leads out of the SealTite conduit.
- 6. Reassemble in reverse order noting the following:
 - Fitting the keyway between the motor and gearbox may require staking it to keep it in place.
 - b. For easiest fitting of the SealTite connector, rotate the motor into the connector before fitting the motor mounting screws.



Gearbox (Option 1)

- Remove seven screws and rear chain guard.
- Remove connecting link and rear chain.
- Loosen the two set screws securing the drive sprocket on the gearbox and push the sprocket inward.
- 4. Slide the collar inward and pry off the C clip.
- 5. Remove the collar and sprocket.
- Loosen the four screws securing the gearbox to the frame
- 7. Slide the gearbox downward (gravity may have already done this) and remove it by pulling the screw heads through the keyholes in the frame.
- Reassemble in reverse order noting the following:
 Slide the gearbox fully upward after installing the chain and tighten the mounting screws to tension the chain.

Note: The gearbox and motor can be removed as a unit by removing the two inner motor mounting screws and following the instructions for disconnecting the motor at the control box.



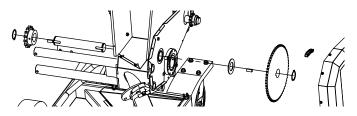
Gearbox (Option 2)

- 1. Remove seven screws and rear chain guard.
- 2. Remove connecting link and rear drive chain.
- Loosen the two set screws securing the drive sprocket on the gearbox and push the sprocket inward.
- Slide the collar inward and pry off the C clip.
- 5. Remove the collar and sprocket.
- Remove the inner chain guard (refer to previous instruction).
- 7. Support the gearbox, remove the four screws securing the gearbox, and remove it.



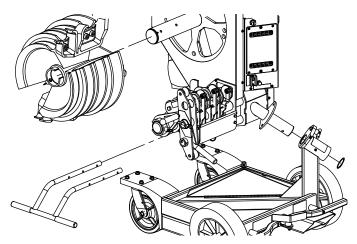
8. Reassemble in reverse order noting the following: Slide the gearbox fully upward after installing the chain and tighten the mounting screws to tension the chain.

Note: The gearbox and motor can be removed as a unit by following the instructions for disconnecting the motor at the control box.



Countershaft

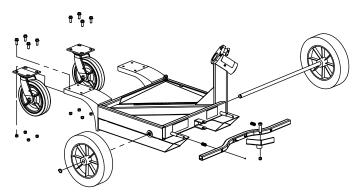
- 1. Remove seven screws and rear chain guard.
- 2. Remove connecting link and rear drive chain.
- 3. Remove the front drive chain (refer to previous instruction).
- 4. Remove a retaining ring from the countershaft.
- 5. Pull off the sprocket, key, and thrust washer.
- 6. Pull out the countershaft from the opposite side.
- 7. Remove the other thrust washer, sprocket, and key.
- 8. Reassemble in reverse order.



Wheeled Base Removal

- 1. Remove the bending shoe.
- 2. Remove the transport handle.
- Remove the retaining ring at the end of the bender pivot shaft.
- 4. Use a hoist to lift the bender head while sliding the wheeled base off the pivot shaft.

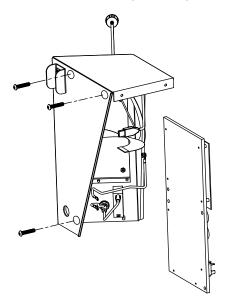
- 5. Set the bender head down gently on the transport handle receptacle tubes using wood 2x4s for support.
- 6. Reassemble in reverse order noting the following: Apply molybdenum grease to the pivot shaft.



Wheeled Base Disassembly

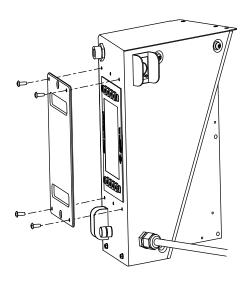
- Pull off the pivot detent bracket by loosening one set screw.
- Remove a retaining ring from the axle and pull off the wheel axle and second wheel.
- 3. Remove the four screws and nuts for each swivel caster and the caster wheels.
- 4. Unlock the brake.
- 5. Remove the nut at the bottom the shoulder screw retaining the brake pedal and remove the screw.
- 6. Remove the brake pedal, brake bar, and two springs.
- 7. Disassemble the pivot detent bracket by driving out the rollpin securing the "T" handle and remove the detent pin and spring.
- 8. Reassemble in reverse order noting the following:
 - a. If the brake does not fully engage or disengage, an additional wear plate can be added or removed from the brake bar.
 - b. The bender head can be leveled using the two set screws on the pivot detent bracket. One turn approximates 1°.





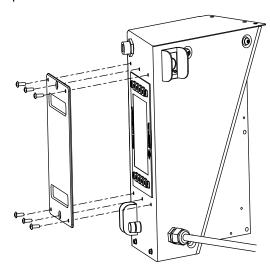
Control Board Unit

- Remove outer control box (refer to previous instruction).
- 2. Disconnect the power connections to the board from the circuit breaker and power cord.
- 3. Disconnect the pendent receptacle cable.
- 4. Disconnect the USB port cable.
- 5. Disconnect the LCD cable.
- 6. Disconnect the membrane switch cable.
- Remove the three button head screws attaching the control board assembly to the enclosure, and remove the control board assembly.
- 8. Reassemble in reverse order.



LCD Protective Cover

- Remove the four corner screws that secure the cover.
- 2. Remove the cover.
- 3. Replace in reverse order.

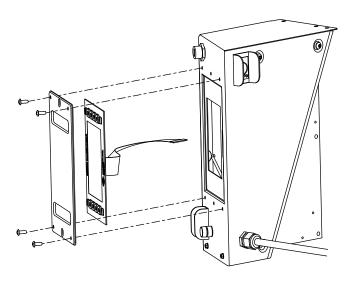


Liquid Crystal Display

- 1. Remove outer control box (refer to previous instruction).
- Unplug the ribbon LCD cable from the control board.
- 3. Remove the LCD protective cover (refer to previous instruction).
- 4. Remove the two remaining screws that secure the LCD mounting plate and remove the plate.
- 5. Remove the four screws that attach the LCD to the mounting plate.

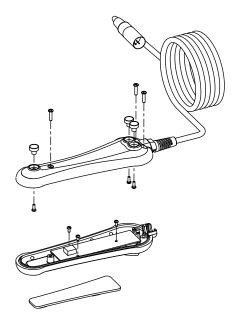


- 6. Reassemble in reverse order noting the following:
 - a. If installing a new LCD, take the protective film off the screen.
 - b. The bottom of the mounting plate has the notch.
 - c. The light bar should be on the right.
 - d. The cable should exit out the top.



LCD Keypad Switch

- Remove the LCD protective cover (refer to previous instruction).
- Remove the outer control box (refer to previous instruction).
- 3. Unplug the keypad switch from the control board.
- 4. Peel the keypad membrane from the enclosure.
- 5. Reassemble a new keypad switch in reverse order noting the following:
 - a. Clean all residue from the mounting surface.
 - b. Center the switch in the recess.
 - c. Remove the protective film from the screen.



Pendant Switch

- 1. Remove three screws holding the housing halves together and separate.
- 2. Unplug the pendant cord from the circuit board and remove strain relief from housing.
- 3. Remove the three screws and the circuit board.
- 4. Unplug the keypad from the circuit board.
- 5. Remove the three screws from the bottom housing to remove the magnets.
- 6. Peel the keypad membrane from the top housing.
- 7. Reassemble in reverse order noting the following: Clean all residue from the mounting surface.



Illustration

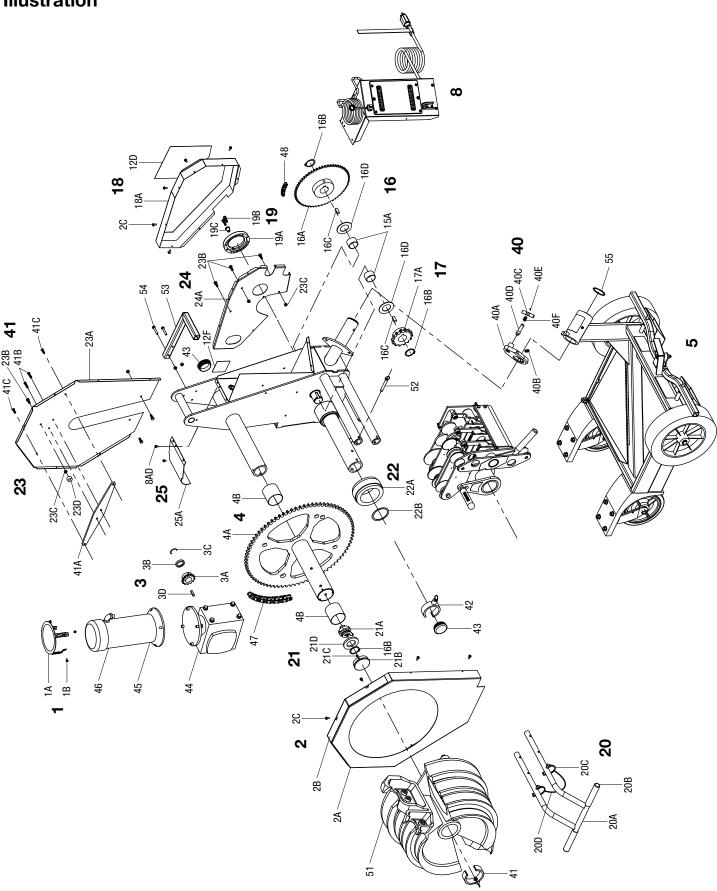
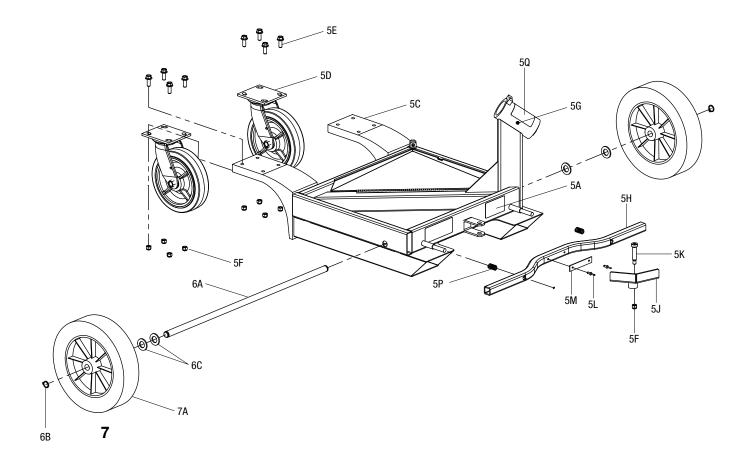
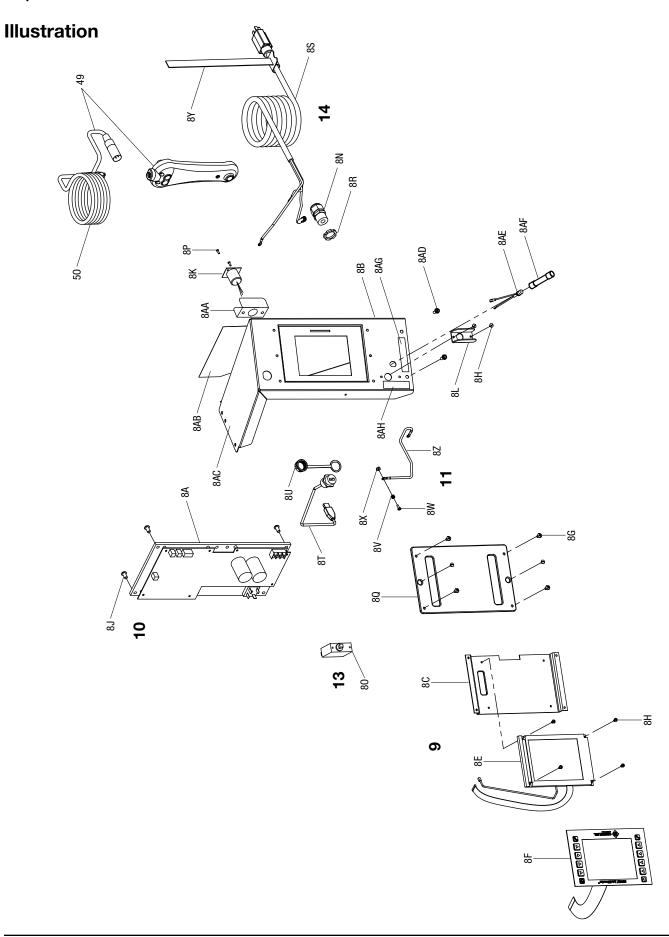




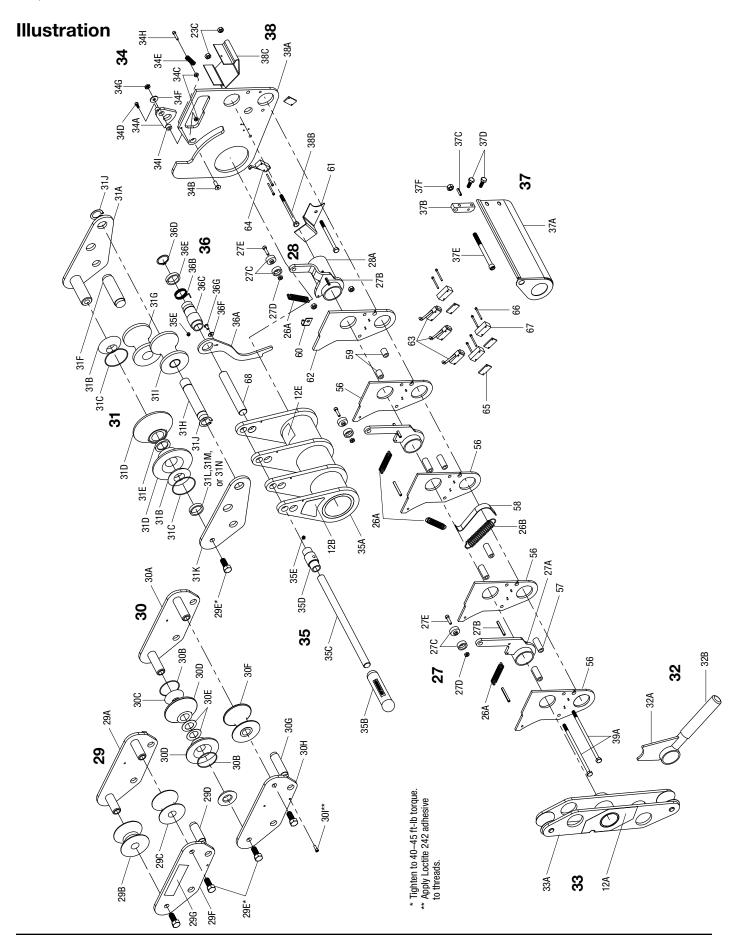
Illustration-Base











19



Parts List

Group	Key	Part No.	Description	Qty
1		52056409	Cap kit, motor	
•	1A	02000 100	Cap, motor	1
	1B		Screw, #10-32 x 5/16, hex head slotted	
0		E00E0000	,	
2	2A	52056623	Guard kit, front main sprocket	4
	2A 2B		Guard, front chain Decal, stub and offset	
	2D 2C		Screw, #10-16 x 1/2, thread-forming	
	20			1
3		52056411	Sprocket kit, gearbox output	
	3A		Sprocket, #40-13 tooth	
	3B		Collar	
	3C		Ring, retaining, round	
	3D		Key, square, .249 x 1.06	1
4		52056624	Sprocket kit, main	
	4A		Sprocket weldment	1
	4B		Bearing, fiberglide	2
5		52056625	Base kit	
	5A		Decal, fork lifting	1
	5B		Decal, brake	1
	5Q		Decal, bender pivot	1
	5C		Trunnion weldment	1
	6A		Axle	1
	5D		Caster, 8 swivel	2
	5E		Screw, flange, 3/8-16 x 1.00	8
	5F		Nut, lock, hex, 3/8-16	9
	7A		Wheel (with sleeve bearing)	2
	6B		Ring, retaining, .750 Truarc #5160 EX	2
	5G		Fitting, grease, 1/4 alemite #1743-B	1
	5H		Bar, brake	1
	5J		Pedal	
	5K		Screw, shoulder	
	5L		Rivet, pop, 3/16 x .440 dome head	
	5M		Bar, wear	
	5P		Spring	
	6C		Washer - Flat .812 x 2.00 x .15	4
6		52056626	Axle kit, wheel	
	6A		Axle	1
	6B		Ring, retaining, .750 Truarc #5160 EX	2
	6C		Washer - Flat .812 x 2.00 x .15	4
7		52083669	Replacement kit, wheel	
	7A		Wheel (with sleeve bearing)	2
	7B		Washer - Flat .812 x 2.00 x .15	4
	7C		Ring, retaining, .750 Truarc #5160 EX	2



Group	Key	Part No.	Description	Qty
8		52056627	Box kit, control	
	8A		Control board assembly	1
	8B		Cover, box	
	8C		Mount plate, LCD	
	8E		LCD	
	8F		Keypad	
	8G		Screw, slftpg, #10-16 x .500 phillips pan	
	8H		Screw, #6-32 x 1/4, phillips pan head	
	8J		Screw, 1/4-20 x .50 btn head skt	
	8K		Receptacle unit, cannon	
	8L		Guard, switch	
	8N		Bushing, strain relief	
	80	91863856	Circuit breaker	
	8P	0.00000	Screw, 4-40 x .50 flat head, Taptite II	
	8Q		Lens, LCD protective	
	8R		Locknut, 1/2" conduit steel	
	8S		Cord unit, power	
	8T		Wire assembly, USB	
	8U		Cap, USB	
	8V		Washer, lock, internal, #6	
	8W		Screw, #6-32 x 3/8 phillips pan head	
	8X		Nut, #6-32 nylon lock	
	8Y		Strap, velcro	
	8Z		Wire assembly	
	8AA		Guard, pendant cord	
	8AB		Decal, identification	
	8AC		Decal, operating instructions	
	8AD		Screw, #10-32 x 5/16, hex head slotted	
	8AE		Holder, fuse	
	8AF	52056934	Fuse (package consisting of 5 fuses)	
	8AG	02000004	Decal, fuse	
	8AH		Decal, circuit breaker	
9		52056628	LCD kit	
	8Q		Lens, LCD protective	1
	8F		Keypad	
	8E		LCD screen	1
	8C		Mount plate, LCD	1
	8G		Screw, slftpg, #10-16 x .500 phillips pan	
	8H		Screw, #6-32 x 1/4, phillips pan head	
10		52056629	Assembly kit, control board	
	8A		Control board assembly	1
	8J		Screw, cap. 1/4-20 x .50 btn skt head	3



Group	Key	Part No.	Description	Qty
11		52056422	Screw kit, ground	
••	8Z	02000122	Wire assembly (ground)	1
	8W		Screw, #6-32 x 3/8 phillips pan head machine	
	8X		Nut, hex, #6-32 lock .178 thk zp	
	8V		Washer (#6 star, intern, CZ/ST)	
12		52056630	Decal kit	
12	12A	0200000	Decal, 1" IMC/rigid roller	1
	5A		Decal, fork lifting	
	12B		Decal, engage rollers	
	8AC		Decal, operating instructions	
	8AB		Decal, identification	
	5B		Decal, brake	
	5Q		Decal, bender pivot	1
	12D		Decal, squeeze	
	12E		Decal, cam release	1
	12F		Decal, lifting	1
	2B		Decal, stub and offset	1
	8AG		Decal, fuse	1
	8AH		Decal, circuit breaker	1
	29G		Decal, cam	1
13	80	91863856	Breaker, circuit	1
14		52056426	Cord unit, power	
	8S	0_0000	Power cord unit	1
	8N		Bushing, strain relief	
	8Y		Strap, velcro	
	8R		Nut, lock, 1/2" conduit	1
15		52056427	Bearing kit	
	15A		Bearing, phenolic	2
	4B		Bearing, fiberglide	2
16		52056428	Sprocket kit, #40B60	
	16A		Sprocket, #40 60T (includes 2 set screws)	1
	16B		Ring, retaining, 1.50 Truarc #5100 EX	
	16C		Key, countershaft	
	16D		Bearing, thrust, 1.50 x 2.62 x .093	
17		52056429	Sprocket kit, #60BS14	
••	17A	02000 :20	Sprocket, #60 14T (includes 2 set screws)	1
	16B		Ring, retaining, 1.50 Truarc #5100 EX	
	16C		Key, countershaft	
	16D		Bearing, thrust, 1.50 x 2.62 x .093	
18		52056631	Guard kit, rear chain	
	18A		Guard, rear	1
	2C		Screw, thread-forming, #10-16 x .50	
	12D		Decal, squeeze arrow	



Group	Key	Part No.	Description	Qty
19		52056431	Adjustment kit, squeeze cam	
	19A		Adjuster, squeeze	1
	19B		Screw, cap, 1/4-20 x 1.00 hex head	
	19C		Guide, adjuster	
20		52056432	Handle kit, replacement	
	20A		Handle weldment	1
	20B		Grip	2
	20C		Pin, safety snap	2
	20D		Lanyard	1
21		52056433	Encoder kit	
	21A		Encoder, sub-assembly	1
	21B		Cap, encoder	1
	21C		Screw, set, 1/4-20 x .375 skt	3
	16B		Ring, retaining, 1.50 Truarc #5100 EX	1
	21D		Retainer	1
22		52056434	Idler kit, chain	
	22A		Stay, chain	1
	22B		Washer, flat, 2.50 x 3.00 x .031 fiber	1
23		52056633	Rear guard kit, main sprocket	
	23A		Guard, chain, back	1
	23B		Screw, cap, 1/4-20 x .750 hex head	3
	23C		Nut, hex, 1/4-20	1
	23D		Hub, centering	
24		52056436	Back guard kit, rear chain	
	24A		Guard, back, rear	1
	23C		Nut, hex, 1/4-20	2
	23B		Screw, cap, 1/4-20 x .750 hex head	3
25		52056437	Guard kit, top frame	
	25A		Cover, wire	1
	8AD		Screw, #10-32 x 5/16, hex head slotted	
26		52056632	Spring kit, roller	
	26A		Spring, lever	4
	26B		Spring, return	1
27		52056151	Arm kit, 1-1/4"-1-1/2" sensor	
	27A		Lever weldment, short	1
	27B		Pin, roll, .187 x 1.62	1
	26A		Spring, lever	1
	27C		Roller, trip lever	
	27D		Nut, hex, 10-32	
	27E		Screw, cap, #10-32 x .750 skt head bk-ox	



Group	Key	Part No.	Description	Qty
28		52056152	Arm kit, 2" sensor	
20	28A	32030132	Lever weldment, long	1
	27B		Pin, roll, .187 x 1.62	
	26A		Spring, lever	
	27C		Roller, trip lever	
	27D		Nut, hex, 10-32	
	27E		Screw, cap, #10-32 x .750 skt head bk-ox	
29		52056635	Roller assembly kit, 1-1/4"	
23	29A	0200000	Support weldment, 1-1/4"	1
	29B		Roller, lead, 1-1/4"	
	29C		Roller, tail, 1-1/4"	
	29D		Shaft, support, 1-1/4"	
	29E		Screw, cap, hex head, 7/16-14 x 1.00	
	29F		Plate, 1-1/2" outer roller	
	29G		Decal, cam	
	290			1
30	004	52056636	Roller assembly kit, 1-1/2"	
	30A		Support weldment, 1-1/2"	
	30B		O-ring, 1.50 x 1.62 x .062 nitrile	
	30C		Ball, half, 1-1/2"	
	30D		Roller, 1-1/2"	
	30E		Washer, belleville, .803 x 1.362 x .043	
	30F		Roller, 1-1/2" IMC	
	30G		Shaft, support, 1-1/2"	
	30H		Plate, 1-1/2" outer roller	
	29E		Screw, cap, hex head, 7/16-14 x 1.00	
	301		Screw, cap, #8-32 x .500 skt head	1
31		52056637	Roller assembly kit, 2"	
	31A		Support weldment, 2"	
	31B		Ball, 2" half	2
	31C		O-ring, 1.75 x 1.87 x .062 nitrile	
	31D		Roller, 2"	
	31E		Spacer, roller, 2"	1
	29E		Screw, cap, hex head, 7/16-14 x 1.00	1
	31F		Shaft, 2" middle roller	1
	31G		Roller, 2" tail	1
	31H		Shaft, tail, 2"	1
	311		Roller unit, 2"	1
	31J		Ring, retaining, .875	2
	31K		Plate, 2" outer roller	1
	31L		Washer, shim, 1.00 x 1.50 x .032 steel	1
	31M		Washer, flat, .625 x 1.00 x .031 (shim)	1
	31N		Washer, flat, .625 x 1.00 x .062 (shim)	1
32		52056638	Handle kit, lift	
	32A		Handle weldment, grab	1
	32B		Grip	1



33	Group	Key	Part No.	Description	Qty
33A	20		E00E6630	Dellay kit 41	
12A	33	221	5205659	·	4
344 52056640 Cam kit 34B Screw, cap, 1/4-20 x .750 skt flat head 1 34C Nut, hex, #8-32 2 34D Screw, button head, 8-32 x 3/8 1 34E Spring, cam 1 34F Washer, flat, 253 x .725 x .070 1 34H Screw, cap, #8-32 x .750 skt head 1 34H Screw, cap, #8-32 x .750 skt head 1 35 52056641 Arm kit, roller 35A Arm weldment 1 35B Grip, rubber 1 35C Handbar 1 35D Sleeve, pivot, 1-1/2" 1 35E Screw, set, 1/4-28 x .250 skt 1 12B Decal, engage rollers 1 12B Decal, engage rollers 1 36C Spring, clutch 1 36B Spring, clutch 1 36C Collar 1 36C Collar 1 36B Sproer, est, 1/4-28 x .250 skt 1 <tr< td=""><td></td><td></td><td></td><td>•••</td><td></td></tr<>				•••	
34A Cam		12A		· · · · · · · · · · · · · · · · · · ·	1
34B	34		52056640	Cam kit	
34C Nut, hex, #8-32 2 34D Screw, button head, 8-32 x 3/8 1 34E Spring, cam 1 34F Washer, flat, 253 x .725 x .070 1 34G Nut, hex, 1/4-20 jam zp 1 34H Screw, cap, #8-32 x .750 skt head 1 34H Screw, cap, #8-32 x .750 skt head 1 34H Screw, cap, 1/4-20 jam zp 1 35D Subshing 1 35A Arm kit, roller 35B Grip, rubber 1 35C Handbar 1 35D Sleeve, pivot, 1-1/2" 1 35E Screw, set, 1/4-28 x .250 skt 1 12E Decal, cam release 1 36E Scotes, set, 1/4-28 x .250 skt 1 36B Spring, clutch 1 36C Collar 1 36B Spring, clutch 1 36C Collar 1 36B Spring, clutch 1 36C Screw, set, 1/4-28 x .250 skt 1 36E Screw, set, 1/4-28 x .250 s		34A			
34D Screw, button head, 8-32 x 3/8 1 34E Spring, cam 1 1 34F Washer, flat , 253 x .725 x .070 1 1 34G Nut, hex, 1/4-20 x .375 kt head 1 34H Screw, cap, #8-32 x .750 kt head 1 34H 34H Screw, cap, #8-32 x .750 kt head 1 34H 34H Screw, cap, #8-32 x .750 kt head 1 35B S2056641 Arm kit, roller				, I,	
34E Spring, cam 1 34F Washer, flat, 253 x, 725 x, 070. 1 34G Nut, hex, 1/4-20 jam zp. 1 34H Screw, cap, #8-32 x, 750 skt head. 1 34I Bushing. 1 35 52056641 Arm kit, roller 35A Arm weldment. 1 35B Grip, rubber. 1 35C Handbar. 1 35D Sleeve, pivot, 1-1/2** 1 35E Screw, set, 1/4-28 x, 250 skt. 1 12B Decal, engage rollers 1 12E Decal, cam release 1 36B Spring, clutch. 1 36B Spring, clutch. 1 36C Collar. 1 36B Spring, clutch. 1 36C Collar. 1 36E Spacer. 1 36E Screw, set, 1/4-28 x, 250 skt. 1 36E Screw, set, 1/4-28 x, 250 skt. 1 36F Washer, flat #10. 1 36G Screw, #10-32 x, 375 skt btn head ca		34C			
34F Washer, flat, .253 x .725 x .070					
34G Nut, hex, 1/4-20 jam zp 1 34H Screw, cap, #8-32 x .750 skt head 1 34I Bushing 1 35 52056641 Arm kit, roller 35A Arm weldment 1 35B Grip, rubber 1 35C Handbar 1 35D Sleeve, pivot, 1-1/2" 1 35E Screw, set, 1/4-28 x .250 skt 1 12B Decal, engage rollers 1 12E Decal, engage rollers 1 36A Lever assembly, release 36A Lever assembly, release 36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 36E Spacer 1 36F Washer, flat #10 1 36G Screw, set, 1/4-28 x .250 skt 1 37A Screw, #10-32 x .375 skt btn head cap 1 37A Guard, limit switch 1 37B Mount, switch guard 1 37C Pin, roll, 187 x .750 1 37F Screw, 5/16-18 x 4.00 skt head cap 1 37F Screw, 5/16-18 x 4.0				• •	
34H Screw, cap, #8-32 x .750 skt head 1 34I Bushing 1 35 52056641 Arm kit, roller 35A Arm weldment 1 35B Grip, rubber 1 35C Handbar 1 35D Sleeve, pivot, 1-1/2" 1 35E Screw, set, 1/4-28 x .250 skt 1 12B Decal, engage rollers 1 12E Decal, cam release 1 36A Lever assembly, release 36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 36F Washer, flat #10 1 36G Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10 1 36G Screw, #10-32 x .375 skt btn head cap 1 37A 52056643 Guard kit, switch 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, cap, 1/4-20 x .750 hex head 2					
34 Bushing 1 1 35 350 52056641 Arm kit, roller		34G		•	
35 52056641 Arm kit, roller 35B Grip, rubber		34H		Screw, cap, #8-32 x .750 skt head	1
35A		341		Bushing	1
35B Grip, rubber	35		52056641	Arm kit, roller	
35C Handbar 1 35D Sleeve, pivot, 1-1/2" 1 35E Screw, set, 1/4-28 x .250 skt 1 12B Decal, engage rollers 1 12E Decal, cam release 1 36 52055878 Lever assembly, release 36B Spring, clutch 1 36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10 1 36G Screw, #10-32 x .375 skt btn head cap 1 37A Guard kit, switch 1 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37F Screw, 5/16-18 x 4.00 skt head cap 1 38 Screw, 5/16-18 full 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		35A		Arm weldment	1
35D Sleeve, pivot, 1-1/2" 1 35E Screw, set, 1/4-28 x .250 skt 1 12B Decal, engage rollers 1 12E Decal, cam release 1 1 12E Decal, cam release 1 1 12E Decal, cam release 1 1 136		35B		Grip, rubber	1
35E Screw, set, 1/4-28 x .250 skt 1 12B Decal, engage rollers 1 12E Decal, cam release 1 36 52055878 Lever assembly, release 36A Lever 1 36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10 1 36G Screw, set, 1/4-28 x .250 skt btn head cap 1 37A Washer, flat #10 1 36G Screw, #10-32 x .375 skt btn head cap 1 37A Guard kit, switch 1 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head <td></td> <td>35C</td> <td></td> <td>Handbar</td> <td>1</td>		35C		Handbar	1
12B Decal, engage rollers 1 12E Decal, cam release 1 36 52055878 Lever assembly, release 36A Lever 1 36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10 1 36G Screw, #10-32 x .375 skt btn head cap 1 37 52056643 Guard kit, switch 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, cap, 1/4-20 x .750 hex head cap 1 37F Nut, hex, 5/16-18 x 4.00 skt head cap 1 38A 52056644 Stop kit, roller 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		35D		Sleeve, pivot, 1-1/2"	1
12E Decal, cam release 1 36 52055878 Lever assembly, release 36A Lever 1 36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10 1 36G Screw, #10-32 x .375 skt btn head cap 1 37 52056643 Guard kit, switch 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, cap, 1/4-20 x .750 hex head cap 1 37F Nut, hex, 5/16-18 x 4.00 skt head cap 1 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		35E		Screw, set, 1/4-28 x .250 skt	1
36 52055878 Lever assembly, release 36A Lever 1 36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10 1 36G Screw, #10-32 x .375 skt btn head cap 1 37 52056643 Guard kit, switch 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, cap, 1/4-20 x .750 hex head 2 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		12B		Decal, engage rollers	1
36A Lever 1 36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10. 1 36G Screw, #10-32 x .375 skt btn head cap 1 37A Guard kit, switch 1 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, cap, 1/4-20 x .750 hex head cap 1 37F Nut, hex, 5/16-18 x 4.00 skt head cap 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		12E		Decal, cam release	1
36B Spring, clutch 1 36C Collar 1 36D Ring, retaining, 1.00 Truarc #5100 EX 1 36E Spacer 1 35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10 1 36G Screw, #10-32 x .375 skt btn head cap 1 37 52056643 Guard kit, switch 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, cap, 1/4-20 x .750 hex head 2 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1	36		52055878	Lever assembly, release	
36C Collar		36A		Lever	1
36D Ring, retaining, 1.00 Truarc #5100 EX. 1 36E Spacer		36B		Spring, clutch	1
36E Spacer 1 35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10		36C		Collar	1
35E Screw, set, 1/4-28 x .250 skt 1 36F Washer, flat #10 1 36G Screw, #10-32 x .375 skt btn head cap 1 37 52056643 Guard kit, switch 37A Guard, limit switch 1 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		36D		Ring, retaining, 1.00 Truarc #5100 EX	1
36F Washer, flat #10		36E		Spacer	1
36G Screw, #10-32 x .375 skt btn head cap 1 37 52056643 Guard kit, switch 37A Guard, limit switch 1 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		35E		Screw, set, 1/4-28 x .250 skt	1
37 52056643 Guard kit, switch 37A Guard, limit switch 1 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		36F		Washer, flat #10	1
37A Guard, limit switch 1 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		36G		Screw, #10-32 x .375 skt btn head cap	1
37A Guard, limit switch 1 37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1	37		52056643	Guard kit, switch	
37B Mount, switch guard 1 37C Pin, roll, .187 x .750 1 37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		37A		·	1
37C Pin, roll, .187 x .750					
37D Screw, cap, 1/4-20 x .750 hex head 2 37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		37C			
37E Screw, 5/16-18 x 4.00 skt head cap 1 37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		37D			
37F Nut, hex, 5/16-18 full 1 38 52056644 Stop kit, roller 38A Plate, switch 1 38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1					
38A Plate, switch		37F			
38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1	38		52056644		
38B Screw, cap, 1/4-20 x 3.500 hex head 2 38C Guard, lower spacer 1		38A			1
38C Guard, lower spacer					
•		38C			
		23C		Nut, hex, 1/4-20	2



	Group	Key	Part No.	Description	Qty
	39		52056645	Hardware kit, roller	
	00	39A	02000040	Screw, cap, 1/4-20 x 6.00 hex head	2
		29E		Screw, cap, hex head, 7/16-14 x 1.00	
		38B		Screw, cap, 1/4-20 x 3.500 hex head	
		23C		Nut, hex , 1/4-20	
		37E		Screw, 5/16-18 x 4.00 skt head cap	
		37F		Nut, hex , 5/16-18 full	
	40		52056642	Release kit, pivot	
		40A		Bracket weldment, detent	1
		40B		Screw, 1/4-28 x 1 oval point set	
		40C		Handle, detent	
		40D		Piston, trunnion lock	
		40E		Pin, roll, .125 x .500	1
		40F		Spring, comp, .502 x .600 x .625	1
	41		52067877	Bar kit, guard stiffener	
	•••	41A	02001011	Bar, guard stiffener	1
		41B		Screw, 1/4-20 x 5/8 button head cap	
		41C		Screw, 1/4-20 x 3/8 button head cap	
				25/54, 1/ 1 25 X 5/ 5 24/6/1 1/544 54p	
Indiv	idual Iten		50044571	Lastradian assault in James	4
		41	52044571	Lock collar assembly, large	
		42	52044514	Lock collar assembly, small	
		43	52047945	Cap, plastic, 2"	
		44	90523881	Reductor	
		45	52057563	Motor, 120V, bender	
		46	91864208	Brushes	
		47	90542509	Chain, roller, #60 (92 pitches) with connecting link	
		48	52055855	Chain, #40 (86 pitches) with connecting link	
		49	52055021	Switch unit, pendant	
		50	52054423	Cord assembly	
		51	52055834	Shoe unit	
		52	52020192	Pin, hitch, short	
		53	52055242	Handle	
		54	00544005	Screw, 1/4-20 x 1.5 hex head cap	
		55	90544625	Ring, retaining, Truarc #5100-200	
		56	52044547	Support, tail roller	
		57	52044526	Spacer	
		58	52046799	Retainer, spring	
		59	52044527	Spacer, short	
		60	52044664	Anchor, spring	
		61	52055238	Cover, switch	
		62	52044548	Support, 2" tail roller	
		63	52056593	Switches and wire harness (rollers)	
		64	52056594	Switch unit, sensor	
		65	52055436	Plate, switch retainer	
		66	E00EEE00	Screw, #4-40 x 1-1/4 socket head cap	
		67	52055500	Spacer, switch	
		68	52044584	Shaft, release	1



Wiring Diagram

