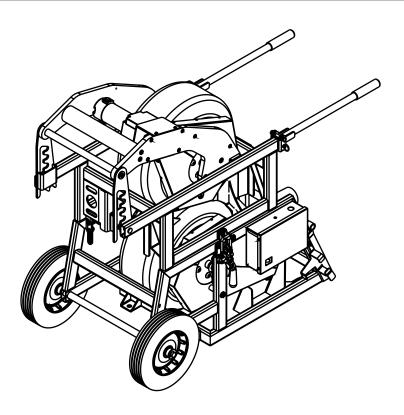


Model 99 Cable Feeder



Operating, Maintenance, Safety and Parts Manual

06/2019



Read and understand this material before operating or servicing the Cable Feeder. Failure to understand how to safely operate and service this unit may result in serious injury or death.

This manual is free of charge. All personnel who operate this Cable Feeder should have a copy of this manual and read and understand its contents. To request a copy, call or write to the address below. All information, specifications and product designs may change due to design improvements or updates and are subject to change without notice. Current Tools does not assume any liability for damages resulting from misuse or incorrect application of its products.

CURRENT TOOLS • P. O. BOX 17026 GREENVILLE, SC 29606 800.230.5421 or 864-721-4230 • FAX 864-721-4232 www.currenttools.com

TABLE OF CONTENTS

Safety Alerts	2
Important Safety Information	3
Specifications	4
Features	5
Transporting/Lifting the Cable Feeder	6
Set Up	7,8
Loading Cable into Cable Feeder	9-11
Operating Instructions	12
Operational Notes	13
Exploded View – Lower Drive	14-15
Parts List — Lower Drive	16-17
Exploded View — Upper Drive	18-20
Parts List – Upper Drive	21-22
Exploded View and Parts List — Final Assembly	23
Exploded View - Electrical System	24
Electrical System Diagram	25
Exploded View/Parts List – Gear Motor	26





Safety Alert Symbol

THIS SAFETY SYMBOL is used to call your attention to instructions that concern your personal safety. It means: ATTENTION! BE AWARE! THIS IS AN IMPORTANT SAFETY INSTRUCTION!

Read, understand, and follow these safety instructions. Failure to follow these safety instructions may result in injury or death.

A DANGER

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

AWARNING

Hazards or unsafe practices which, if not avoided, COULD result in serious personal injury or death.

A CAUTION

Hazards or unsafe practices which, if not avoided, COULD result in minor personal injury or property damage.

RETAIN SAFETY INFORMATION



This manual should be read and understood by all personnel who operate or service this Cable Feeder. Failure to understand how to safely operate and service this unit could result in injury or death. This unit should only be operated and serviced by qualified personnel.

(P)) IMPORTANT SAFETY INFORMATION

ADANGER Do not operate in wet or damp locations. Do not expose to rain.

ADANGER Do not operate in a hazardous location or near combustible materials.

AWARNINGKeep all body parts, hair, loose clothing, etc. away from rotating parts and pinch points. Also, stay clear of cable during operation as it approaches and is fed through the Cable Feeder.

An emergency stop is provided on the Cable Feeder for your safety.

Always inspect before each use to ensure proper operation.

The Cable Feeder has no braking system. Do not use the Cable Feeder to lift or lower any loads or personnel.

AWARNING Unplug the Cable Feeder when loading cables to avoid accidental starting.

WARNINGUpper drive clamp <u>MUST</u> be in closed, locked position before attempting to lift the Cable Feeder. For instructions on lifting the Cable Feeder, see Page 6.

Always plug the Cable Feeder into a grounded 115 VAC receptable with a 15 amp GFCI protected circuit. Do not modify the plug provided with the Cable Feeder. Inspect the power cord before each use.

AWARNING Unplug the Cable Feeder before servicing or maintenance.

AWARNING Do not remove guards; they are installed for your protection.

The maximum cable diameter is 3.5". The maximum width of all cables in the Cable Feeder is 6". Exceeding this width may cause the cables to run off the tire causing cable damage.

Only use the Cable Feeder for its intended purpose to feed cable off of cable reels as described in this manual. The Cable Feeder is not to be used as a cable puller to pull cable or rope through conduit or in cable trays.

Only feed electrical cable through the tires of the Cable Feeder. Do not allow any sharp objects to contact the tires; doing so may cause damage to the tires and possibly tire failure.

A CAUTION Inspect the Cable Feeder for damage or wear before each use.

SPECIFICATIONS

· Weight: 345 lbs.

• Dimensions: 26" wide X 42" long X 43" tall

• Power requirements: 115VAC, 15 amps, 60 Hz

• Feeding speed: 0 ft./minute to 36 ft./minute

Cable Capacity:

8 X 250 MCM Cable

6 X 500 MCM Cable

5 X 750 MCM Cable

Cable size — .25" to 3.5" dia. max.

Maximum Width of all cables 6"

• Maximum Pulling Force:

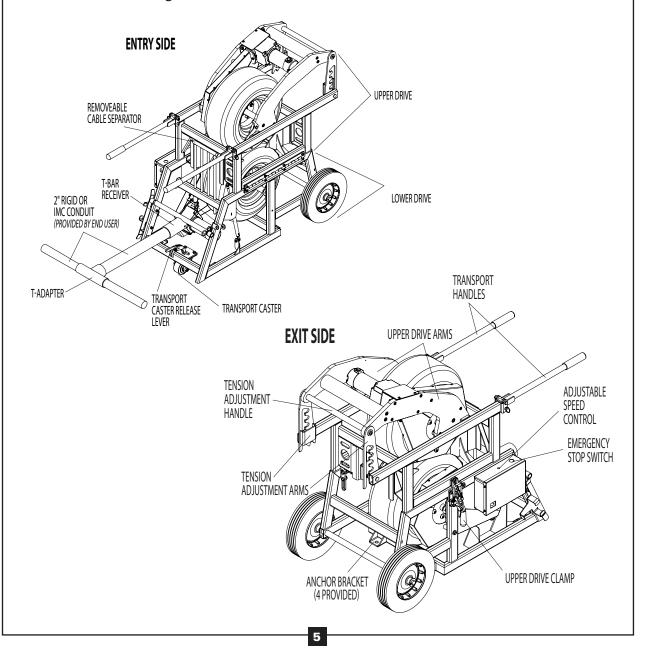
Single Cable – Approximately 250 lbs.

All Cables - Approximately 1,000 lbs.

- Maximum Reel capacity 25,000 lbs.
- Tire Pressure 50 PSI

(A) FEATURES

- Hinged upper drive to allow for easy side loading.
- High grip tires can accommodate no lube or regular cable
- Dual drive motors for maximum grip on cables
- Cable separator guides cables to ensure positive grip on tires
- Heavy duty third wheel caster with quick release mechanism
- Adjustable speed control
- May be operated with remote pendant or optional foot switch
- Low voltage hand control pendant with 8' cable and magnet for easy storage
- Ratcheting tension adjustment provides tension on cable from 1/4" to 3 1/2" diameter
- · Self-lubricating drive chain reduces maintenance





🔊 TRANSPORTING THE CABLE FEEDER

TO ROLL ON A SMOOTH SURFACE:

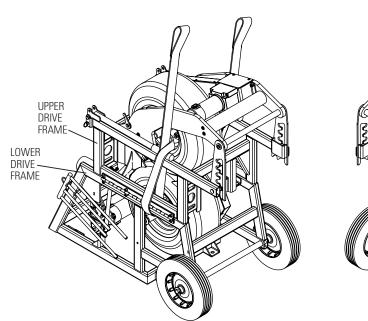
Rotate both transport handles and pin into position with the detent pins provided. Next, lift the Cable Feeder by the handles and the transport caster will rotate into place. To retract the caster, lift up on the transport handles and push the transport caster release lever with your foot. This will allow the caster to rotate out of the way. Next, lower the Cable Feeder.

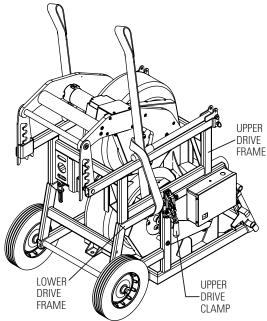
LIFTING THE FEEDER

When lifting the Cable Feeder, attach sling so that it loops around the drive frame as shown below.

▲WARNING

Upper drive clamp MUST be in closed, locked position before attempting to lift the Cable Feeder.

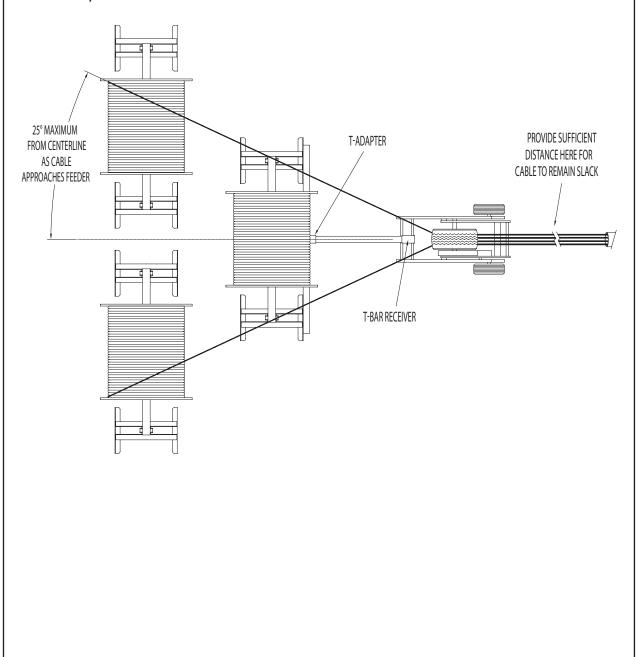




SET-UP

The following will help with setting up the Cable Feeder and cable reels:

- Make sure there is enough room for the cable to remain slack after the cable exits the Cable Feeder.
- The maximum angle that the cable should approach the Cable Feeder is 25° from the center line.
- Make sure the cable insulation will not be damaged.
- The cable may pay off from either the top or bottom of the reel.
- Place the ground cable in the farthest slot to the left of the cable separator as it enters the cable feeder.

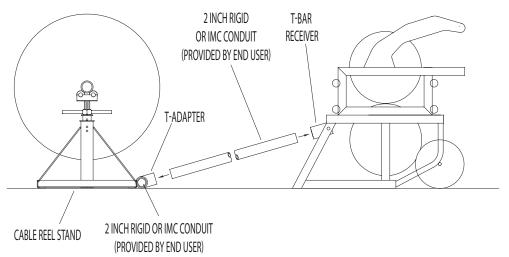


To secure the Cable Feeder:

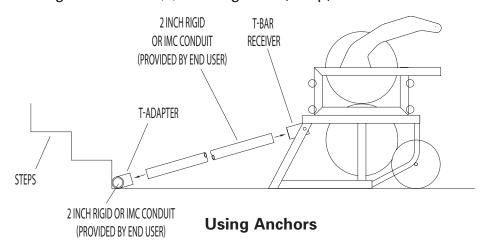
Using T-Bar

• The Cable Feeder may be secured by using the T-Bar method. Slide a section of 2" Rigid or IMC conduit into the T-Bar receiver located at the entry side of the Cable Feeder. Next, slide the other end of the conduit into the T-adapter. Next, slide a second 2" section of Rigid or IMC conduit through the T-adapter. Now the Cable Feeder and T-bar set-up are ready to be positioned against cable reel stands.

Note: The second section of conduit should be long enough to contact both cable reel stands.



Note: Another method of securing the Cable Feeder may be needed if the cable is not on the reels. Place the T-Bar against a stake(s) in the ground, step, etc.



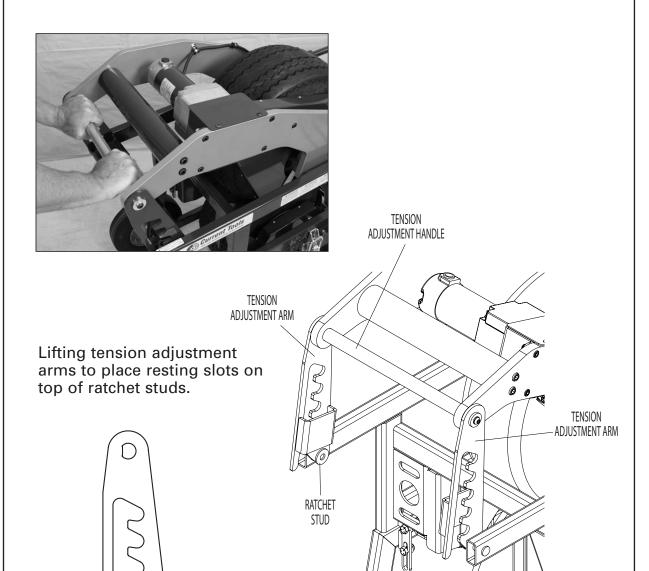
• Secure the Cable Feeder by anchoring through the four anchor brackets located on the bottom of the Cable Feeder. Use 3/8" or 1/2" anchors (provided by end-user).

AWARNING

Always ensure that the structure you are anchoring to will support the forces generated by the pull, plus a 4:1 safety factor.

DILOADING CABLE INTO THE CABLE FEEDER

1. Standing at the exit end of the Cable Feeder, push down and turn the tension adjustment handle to release the tension adjustment arms from the ratchet studs. Lift up on the handle and place the tension adjustment arms with the resting slots (see Figure 1 below) on top of the ratchet studs.



Resting slots shown on top of ratchet studs.

Figure 1

LOADING CABLE INTO THE FEEDER continued . . .

Next, release the upper drive clamp and raise the upper drive.
 Note: The upper drive clamp has a safety lock which must be released to operate the clamp. See photo below.



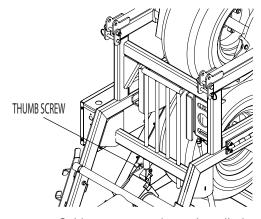


Note: Pull safety lock as shown to release upper drive clamp

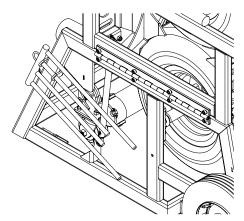
3. Place the cables over the lower tire, being sure not to cross the cables.



4. If needed, remove the cable separator from the storage slots and install as shown below. Be sure to tighten the thumb screw to secure the cable separator.



Cable separator shown installed



Cable separator shown in storage slots

LOADING CABLE INTO THE FEEDER continued . . .

5. Next, close and reclamp the upper drive



6. Using the tension adjustment handle, lower the tension adjustment arms. Push down on the handle with enough pressure to engage one set of the ratcheting slots onto the ratchet studs.

7. Now you are ready to feed cable.

Note: If needed, the upper drive can be raised and will latch into open position as shown below.



Upper drive arms raised and shown latched into open position



To release latch, lift the lever on latch as shown.



(A) OPERATING INSTRUCTIONS

- 1. Before operation, be sure the pendant ON/OFF switch is in the OFF position.
- 2. Next, plug the Cable Feeder into an 115 VAC, 15 amp, GFCI protected power source.
- 3. Adjust the speed control to 12 o'clock position.
- 4. Turn the circuit break switch located on the side of the Cable Feeder electrical box to the ON position.

Operate the Cable Feeder by one of the following methods:

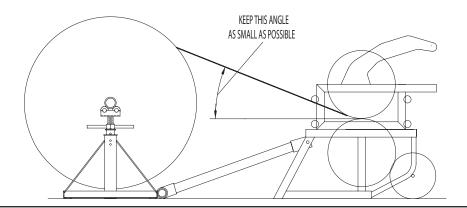
- For continuous run: Place the pendant on/off switch in the "continuous on" position.
- For intermittent operation: With the pendant continuous on/off switch in the OFF position, depress the pendant jog button.
- If equipped with optional foot switch: Plug the foot switch into the foot switch outlet located on the front of the electrical box on the Cable Feeder and depress the foot switch.
- 5. Adjust the speed by rotating the speed control knob as follows:
 - 1. Clockwise to increase speed
 - 2. Counterclockwise to decrease speed

Note: The Cable Feeder is equipped with an emergency stop switch located on the top of the electrical box on the Cable Feeder. To activate, push down. To reset, turn clockwise.



OPERATIONAL NOTES

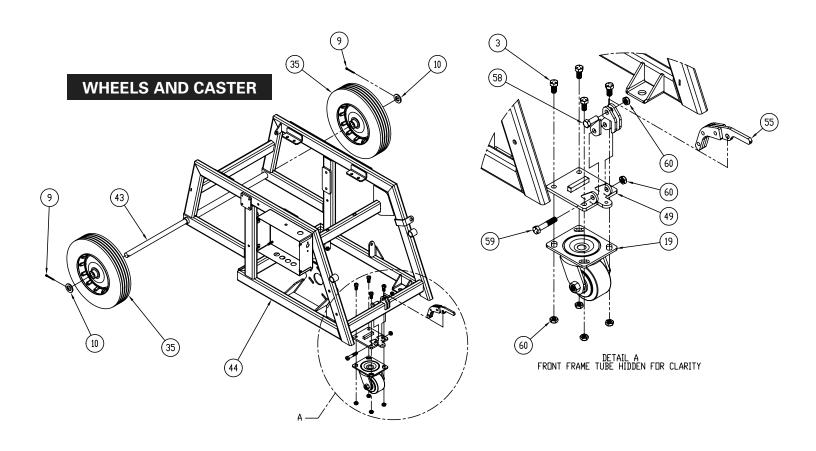
- Before feeding begins, make sure the cable on the entry side of the cable feeder (between the cable reels and the cable feeder) is <u>NOT</u> slack.
- The cable on the exit side of the Cable Feeder should REMAIN SLACK DURING THE ENTIRE PULL. Do not allow this cable to become taut.
- Keep the speed control at a low setting at the start of the pull.
- Use the speed control to adjust the rate of cable feed to equal that of the cable puller. Proper use of the speed control should prevent the operator from having to turn the Cable Feeder off and on during the feeding operation.
- When feeding a cable with a smaller diameter (such as a ground cable) than the other cables being fed, the smaller cable may tend to feed at a faster rate. To remedy this:
 - Stop the Feeder, then push down and turn the tension adjustment handle to release the tension adjustment arms from the ratchet studs. Then raise the upper drive arms. (See photo on the bottom of Page 11).
 - Pull back the excess small cable that has built up at the exit end of the Cable Feeder.
 - Lower the upper drive arms and push down on the tension adjustment handle until the tension adjustment arms engage the ratchet studs.
 - Restart the pull.
- If slippage is a problem, more separation may be needed between the ground cable and the larger cables. Simply place the ground cable in the farthest slot to the left of the cable separator and skip a slot between the ground cable and the larger cable.
- If necessary, more than one cable may be placed in a single slot of the Cable Separator.
- If the cable feeding off the reels approaches the Cable Feeder at too steep of an angle, the Cable Feeder may tend to lift. To avoid, move the Cable Feeder further away from the reel(s) or anchor the Cable Feeder by using the (4) four anchor brackets located on the bottom of the Cable Feeder or feed the cable from the bottom of the reel.

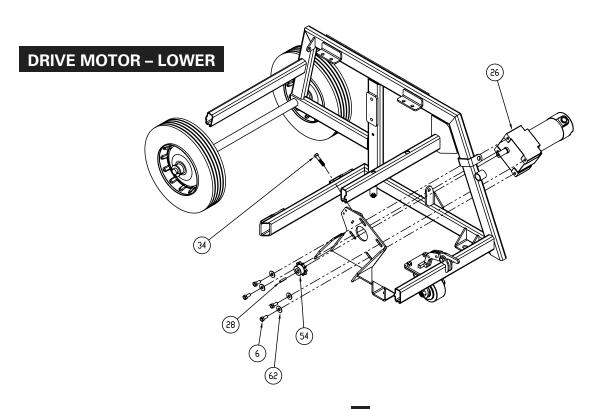


MAINTENANCE

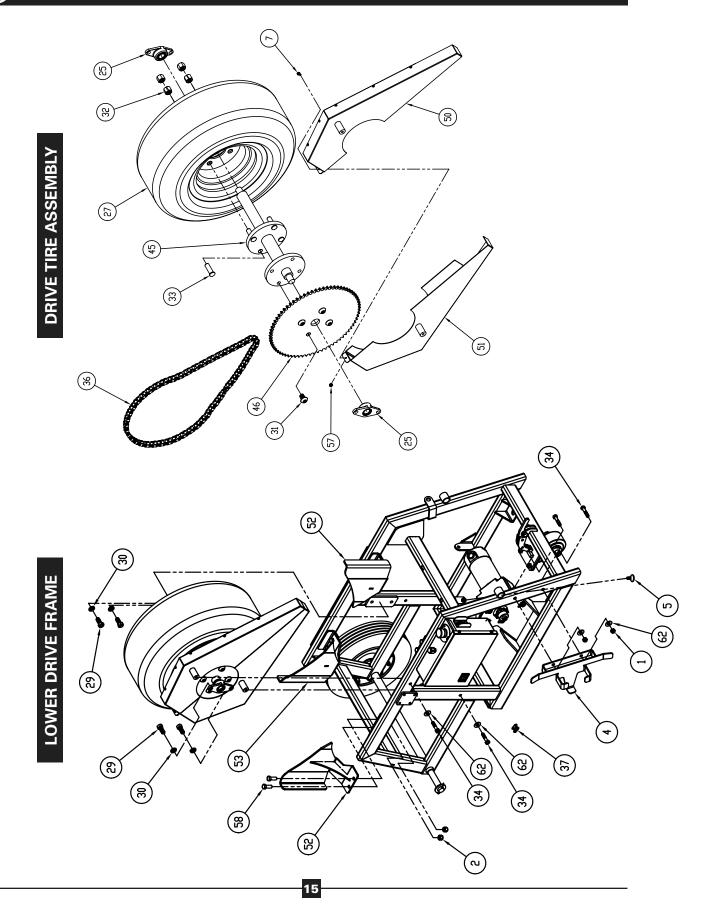
- 1) Before use, make sure each tire is inflated to 50 PSI.
- 2) Chains and bearings are permanently lubricated and should not require any additional lubrication.
- 3) Keep all components clean and free of any debris.

EXPLODED VIEW — LOWER DRIVE





EXPLODED VIEW — LOWER DRIVE



PARTS LIST — LOWER DRIVE

ITEM #	PART #	DESCRIPTION	QTY.
1	2-1301-4	NUT — HEX NYLON INSERT (5/16"-18)	2
2	2-1501-4	NUT — HEX NYLON INSERT (3/8-16)	8
3	33-53	SCREW — HEX HEAD CAP GR5 ZINC (3/8–16 x 3/4)	4
4	33-706	WELDMENT — WIRE/FOOT SWITCH HOLDER	1
5	66-56	SCREW — SPADE THUMB 18.8SS (5/16–18 X 3/4)	1
6	77-002D1	SCREW — HEX HEAD CAP GR5 ZINC (5/16–18 x 3/4)	4
7	77-004A	SCREW — TC (8-32 x 3/8)	12
8	77-004A	SCREW — TC (8-32 x 5/8)	1
9	77-016	COTTER PIN — 3/16" x 1-1/4" LONG	2
10	77-017	WASHER — FLAT 3/4"(SAE)	2
11	77-028	STRAIN RELIEF	1
12	77-028A	STRAIN RELIEF	3
13	77-033A	SCREW — HEX HEAD SELF DRILL ZINC (#10–32 x 1/2)	2
14	77-036A	NUT — HEX (#6–32)	4
15	77-061	SCREW – PAN HEAD SLOT (6-32 3/8)	6
16	77-063	SWITCH GUARD	1
17	77-508	PRECUT WIRE LEADS (NOT SHOWN)	1
18	88-47	CIRCUIT BREAKER SWITCH	1
19	99-10	CASTER	1
20	99-100	PROPORTIONAL CONTROLLER	1
21	99-101	BRIDGE RECTIFIER	1
22	99-102	STAND OFF — NYLON	4
23	99-117	OUTLET — FOOT SWITCH	1
24	99-120	KNOB — SPEED CONTROL	1
25	99-18	BEARING — FLANGE, PLAIN 3/4"	2
26	99-2	GEAR MOTOR	1
27	99-21	18.5" x 8.50" TIRE, 99	1
28	99-24	KEY — 3/16 x 3/16 x 1" PLAIN	1
29	99-30	SCREW — HEX HEAD CAP GR5 ZINC (7/16–14 x 1)	4
30	99-31	WASHER — LOCK MEDIUM 7/16" ZINC	4
31	99-32	SCREW — BUTTON HEAD SOCKET (1/2–13 x 3/4)	4
32	99-33	NUT — LUG (1/2"–20)	4
33	99-34	STUD - WHEEL 1/2"-20	4
34	99-38	SCREW — HEX HEAD CAPGR5 ZINC (5/16–18 x 1.5)	5
35	99-5	WHEEL	2
36	99-53	DRIVE CHAIN	1
37	99-85	MASTER LINK	1
38	99-92 E-STOP LEGEND PLATE		1
39	99-93	E-STOP	1
40	99-94	SPEED CONTROL	1
41	99-98	TRANSFORMER	1



PARTS LIST — LOWER DRIVE — CONTINUED

ITEM #	PART #	DESCRIPTION	QTY.
42	99-99	SOLID STATE RELAY	1
43	99-545	AXLE	2
44	99-694	BOTTOM FRAME WELDMENT – 99 FEEDER	1
45	99-696	BOTTOM AXLE WELDMENT	1
46	99-715	SPROCKET – DRIVEN, FEEDER	1
47	99-727	ELECTRICAL PLATE — FEEDER	1
48	99-729	TOP — ELECTRICAL BOX — FEEDER	1
49	99-730	PLATE FAB – CASTER, FEEDER	1
50	99-740	LOWER CHAIN GUARD (TOP)	1
51	99-741	LOWER CHAIN GUARD (BOTTOM)	1
52	99-744	GUIDE PLATE WELDMENT	2
53	99-744A	GUIDE PLATE WELDMENT	2
54	99-756	SPROCKET — REDUCER	1
55	99-790	CASTER LOCK WELDMENT	1
56	450-20	SPACER, ELEC. BOX	3
57	453-16A	NUT — HEX (#8–32)	1
58	524-11	3/8-16 x 1" HEX HEAD CAP SCREW	9
59	528-2	SCREW — HEX HEAD CAP GR5 ZINC (3/8–16 x 2)	1
60	610-25	NUT — HEX NYLON INSERT (3/8–16)	6
61	9518SR-12	NUT — HEX NYLON (1/4–20)	3
62	9544-21	WASHER — FLAT 5/16" USS ZINC	8
63	99-105	DECAL	1
64	77-050	GUARD - PENDANT	1
65	77-451	GASKET	1
66	77-051	SWITCH - FORWARD / REVERSE	1
67	77-052	SWITCH - JOG	1
68	77-048	CONDULET - 1/2"	1
69	77-065	FISH PAPER	1
70	77-3-1A	PLUG - PLASTIC	1
71	99-115	CORD (16/3-8') - PENDANT	2
72	33-45	FOOT SWITCH	1
73	747-39	LOCKWASHER, EXT. TOOTH - #8	1
74	451-22	SCREW, PAN HEAD PHILLIPS, 10-32 x 3/8"	1
75			1
76			1
77	747-40	LOCK WASHER, INT. TOOTH – 15/32"	2
78	77-072	SCREW - #8-32 x 1/2" RD. HD. PHILLIPS	2

(<u>4</u>)

(E)

(F)

(B)

(5)

(e)

(A)

EXPLODED VIEW — UPPER DRIVE

UPPER DRIVE FRAME

(B) (E) ₽ **8**

(E)

(

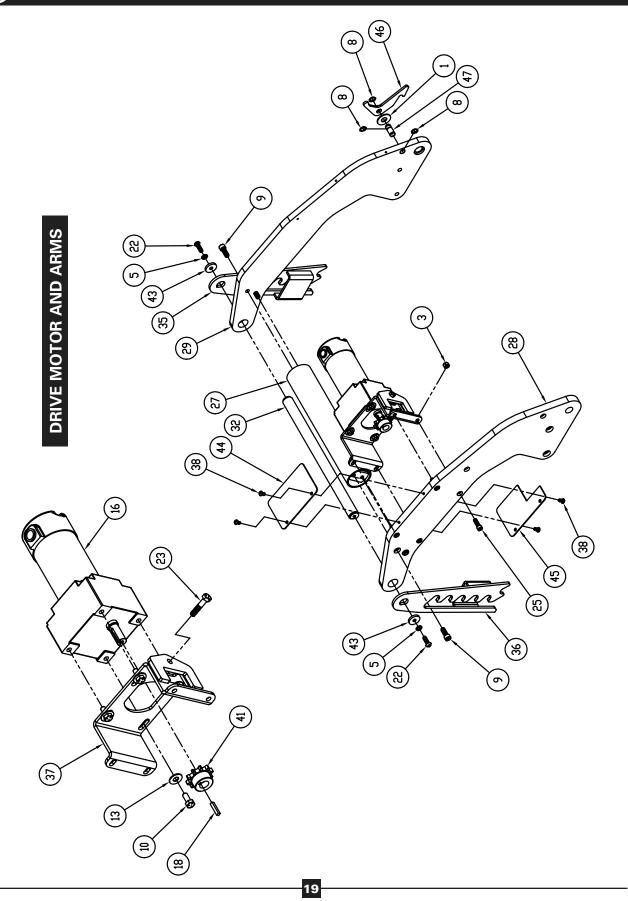
(g)

(8)

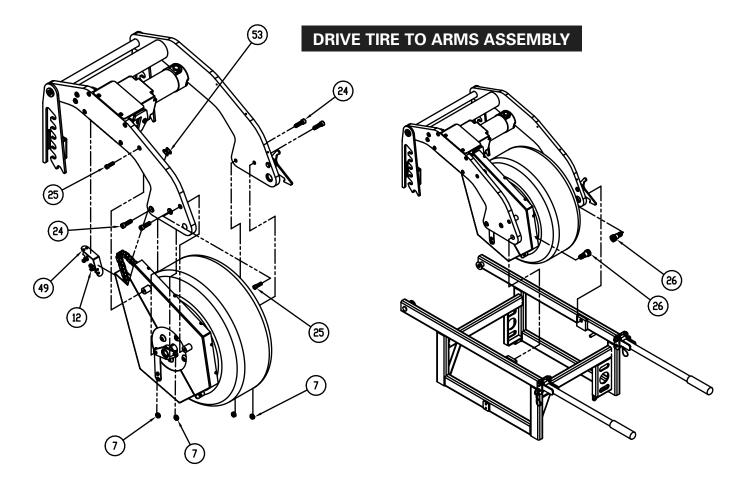
(21)

DRIVE TIRE ASSEMBLY

EXPLODED VIEW — UPPER DRIVE



EXPLODED VIEW — UPPER DRIVE



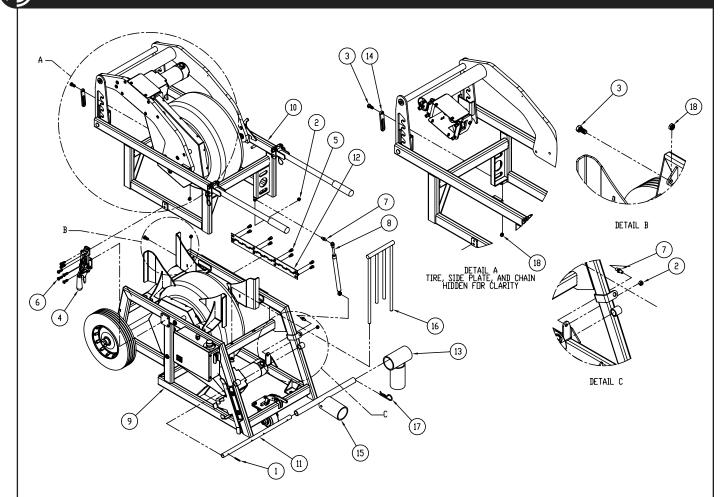
PARTS LIST — UPPER DRIVE

1	ITEM #	PART #	DESCRIPTION	QTY.
3 2-1301-4 NUT - HEX NYLON INSERT (5/16"-18) 4 4 2-1501-4 NUT - HEX NYLON INSERT (3/8-16) 2 5 412-11 WASHER - LOCK MEDIUM 5/16 ZINC 2 6 453-16A NUT - HEX NYLON INSERT (3/8-16) 4 7 610-25 NUT - HEX NYLON INSERT (3/8-16) 4 8 750-21 1/2" RETAINER RING 3 9 750-25 SCREW - SOCKET HEAD CAP (3/8-16 x 1") 4 10 77-002D1 SCREW - HEX HEAD CAP GR5 ZINC (5/16-18 x 3/4) 4 11 77-004A SCREW - HEX HEAD CAP GR5 ZINC (5/16-18 x 3/4) 4 11 77-003A SCREW - HEX HEAD SELF DRILL ZINC (#10-32 x 1/2) 6 13 9544-21 WASHER - FLAT 5/16" USS ZINC 4 14 9548-7 PIN - QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING - FLANGE, BALL 3/4" 2 2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW - BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT - LUG (1/2"-20) 4 22 99-37 SCREW - BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW - BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 2 2 3 99-38 SCREW - BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 2 2 3 99-687 SCREW - SOCKET HEAD CAP GR5 ZINC (5/16-18 x 1.5) 4 2 4 99-59 SCREW - SOCKET HEAD CAP GR5 ZINC (5/16-18 x 1.5) 4 2 5 99-60 5/16-18 x 1.00 SHCS 6 6 99-61 SCREW - SOCKET SHOULDER (3/4 x 5/8) 2 2 99-687 SPREADER TUBE - FEEDER 1 3 99-695 TOP FAME WELDMENT - 99 FEEDER 1 3 99-713 TENSION ADJUSTMENT HANDLE 1 3 3 99-715 SPROCKET - DRIVEN, FEEDER 1 3 99-725 BRACKET FAB - TENSIONER 1 3 99-725 BRACKET FAB - TENSIONER 1 3 99-725 BRACKET FAB - TENSIONER 1 3 99-743 UPPER CHAIN GUARD (TOP) 1 4 4 4 99-743 UPPER CHAIN GUARD (TOP) 1 4 4 4 4 4 4 4 4 4	1	12024-7	WASHER — STEEL 1-3/8" OD X 9/16" ID x 14GA (ZINC)	1
4 2-1501-4 NUT — HEX NYLON INSERT (3/8-16) 2 5 412-11 WASHER — LOCK MEDIUM 5/16 ZINC 2 6 453-16A NUT – HEX (#8-32) 1 7 610-25 NUT — HEX NYLON INSERT (3/8-16) 4 8 750-21 1/2" RETAINER RING 3 9 750-25 SCREW — SOCKET HEAD CAP (3/8-16 x 1") 4 10 77-002D1 SCREW — HEX HEAD CAP (3/8-16 x 1") 4 11 77-004A SCREW — HEX HEAD SELF DRILL ZINC (5/16-18 x 3/4) 4 12 77-033A SCREW — HEX HEAD SELF DRILL ZINC (#10-32 x 1/2) 6 13 9544-21 WASHER — FLAT 5/16" USS ZINC 4 14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY – 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) <td>2</td> <td>140-7</td> <td>GRIP</td> <td>2</td>	2	140-7	GRIP	2
5 412-11 WASHER — LOCK MEDIUM 5/16 ZINC 2 6 453-16A NUT - HEX (#8-32) 1 7 610-25 NUT — HEX NYLON INSERT (3/8-16) 4 8 750-21 1/2" RETAINER RING 3 9 750-25 SCREW — SOCKET HEAD CAP (3/8-16 x 1") 4 10 77-002D1 SCREW — HEX HEAD CAP GR5 ZINC (5/16-18 x 3/4) 4 11 77-004A SCREW — HEX HEAD SELF DRILL ZINC (#10-32 x 1/2) 6 13 9544-21 WASHER — FLAT 5/16" USS ZINC 4 14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY — 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STOD — WHEEL 1/2"-20 4	3	2-1301-4	NUT – HEX NYLON INSERT (5/16"–18)	4
6 453-16A NUT - HEX (#8-32) 1 7 610-25 NUT - HEX NYLON INSERT (3/8-16) 4 8 750-25 SCREW - SOCKET HEAD CAP (3/8-16 x 1") 4 10 77-002D1 SCREW - SOCKET HEAD CAP (3/8-16 x 1") 4 11 77-004A SCREW - HEX HEAD CAP (GR-32 x 3/8) 1 12 77-033A SCREW - HEX HEAD SELF DRILL ZINC (#10-32 x 1/2) 6 13 9544-21 WASHER - FLAT 5/16" USS ZINC 4 14 9548-7 PIN - QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING - FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW - BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT - LUG (1/2"-20) 4 21 199-34 STUD - WHEEL 1/2"-20 4 22 99-37 SCREW - BUTTON HEAD SOCKET (5/16-18 x 1) <	4	2-1501-4	NUT — HEX NYLON INSERT (3/8-16)	2
7 610-25 NUT — HEX NYLON INSERT (3/8-16) 4 8 750-21 1/2" RETAINER RING 3 9 750-25 SCREW — SOCKET HEAD CAP (3/8-16 x 1") 4 10 77-002D1 SCREW — HEX HEAD CAP GR5 ZINC (5/16-18 x 3/4) 4 11 77-004A SCREW — HEX HEAD SELF DRILL ZINC (#10-32 x 1/2) 6 13 9544-21 WASHER — FLAT 5/16" USS ZINC 4 14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) <td>5</td> <td>412-11</td> <td>WASHER — LOCK MEDIUM 5/16 ZINC</td> <td>2</td>	5	412-11	WASHER — LOCK MEDIUM 5/16 ZINC	2
8 750-21 1/2" RETAINER RING 3 9 750-25 SCREW — SOCKET HEAD CAP (3/8–16 x 1") 4 10 77-002D1 SCREW — HEX HEAD CAP GRS ZINC (5/16–18 x 3/4) 4 11 77-004A SCREW — TC (8-32 x 3/8) 1 12 77-033A SCREW — HEX HEAD SELF DRILL ZINC (#10–32 x 1/2) 6 13 9544-21 WASHER — FLAT 5/16" USS ZINC 4 14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY – 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2–13 x 3/4) 4 20 99-33 NUT — LUG (1/2"–20) 4 21 99-34 STUD — WHEEL 1/2"–20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16–18 x 1.) 2 23 99-38 SCREW — HEX HEAD CAP (3/8–16 x 1.25)	6	453-16A	NUT - HEX (#8-32)	1
9 750-25 SCREW — SOCKET HEAD CAP (3/8–16 x 1") 4 10 77-002D1 SCREW — HEX HEAD CAP GR5 ZINC (5/16–18 x 3/4) 4 11 77-004A SCREW — TC (8-32 x 3/8) 1 12 77-033A SCREW — HEX HEAD SELF DRILL ZINC (#10–32 x 1/2) 6 13 9544-21 WASHER — FLAT 5/16" USS ZINC 4 14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2–13 x 3/4) 4 20 99-33 NUT — LUG (1/2"–20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16–18 x 1.) 2 23 99-38 SCREW — HEX HEAD CAP (3/8–16 x 1.25) 4 24 99-59 SCREW — SOCKET HEAD CAP (3/8–16	7	610-25	NUT — HEX NYLON INSERT (3/8-16)	4
10	8	750-21	1/2" RETAINER RING	3
11 77-004A SCREW — TC (8-32 x 3/8) 1 12 77-033A SCREW — HEX HEAD SELF DRILL ZINC (#10-32 x 1/2) 6 13 9544-21 WASHER — FLAT 5/16" USS ZINC 4 14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 25 99-60 SCREW — SOCKET HEAD CAP (3/	9	750-25	SCREW — SOCKET HEAD CAP (3/8–16 x 1")	4
12 77-033A SCREW — HEX HEAD SELF DRILL ZINC (#10-32 x 1/2) 6 13 9544-21 WASHER — FLAT 5/16" USS ZINC 4 14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — HEX HEAD CAP GR5 ZINC (5/16-18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8-16 x 1.25) 4 25 99-60 5/16-18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER <td< td=""><td>10</td><td>77-002D1</td><td>SCREW — HEX HEAD CAP GR5 ZINC (5/16–18 x 3/4)</td><td>4</td></td<>	10	77-002D1	SCREW — HEX HEAD CAP GR5 ZINC (5/16–18 x 3/4)	4
13 9544-21 WASHER — FLAT 5/16" USS ZINC 4 14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY – 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8-16 x 1.25) 4 25 99-60 5/16-18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8)	11	77-004A	SCREW — TC (8-32 x 3/8)	1
14 9548-7 PIN — QUICK RELEASE 3/8 x 2-1/4" 2 15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY – 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 25 99-38 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8-16 x 1.25) 4 25 99-60 5/16-18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x	12	77-033A	SCREW — HEX HEAD SELF DRILL ZINC (#10–32 x 1/2)	6
15 99-18 BEARING — FLANGE, BALL 3/4" 2 16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 24 99-59 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 25 99-38 SCREW — SOCKET HEAD CAP (3/8-16 x 1.25) 4 25 99-69 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 30 99-689 ARM — OFF SIDE 1	13	9544-21	WASHER — FLAT 5/16" USS ZINC	4
16 99-2 GEAR MOTOR 1 17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8-16 x 1.25) 4 25 99-60 5/16-18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 30 99-689 ARM — OFF SIDE 1 31 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 <t< td=""><td>14</td><td>9548-7</td><td>PIN — QUICK RELEASE 3/8 x 2-1/4"</td><td>2</td></t<>	14	9548-7	PIN — QUICK RELEASE 3/8 x 2-1/4"	2
17 99-21 18.5" x 8.50" TIRE, 99 1 18 99-24 KEY - 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4) 4 20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1.5) 1 24 99-59 SCREW — HEX HEAD CAP (3/8-16 x 1.25) 4 25 99-60 5/16-18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34	15	99-18	BEARING — FLANGE, BALL 3/4"	2
18 99-24 KEY – 3/16 x 3/16 x 1 PLAIN 1 19 99-32 SCREW — BUTTON HEAD SOCKET (1/2–13 x 3/4) 4 20 99-33 NUT — LUG (1/2"–20) 4 21 99-34 STUD — WHEEL 1/2"–20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16–18 x 1) 2 23 99-38 SCREW — BUTTON HEAD CAP GR5 ZINC (5/16–18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8–16 x 1.25) 4 25 99-60 5/16–18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT – 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2	16	99-2	GEAR MOTOR	1
19 99-32 SCREW — BUTTON HEAD SOCKET (1/2–13 x 3/4) 4 20 99-33 NUT — LUG (1/2"–20) 4 21 99-34 STUD — WHEEL 1/2"–20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16–18 x 1) 2 23 99-38 SCREW — BUTTON HEAD SOCKET (5/16–18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8–16 x 1.25) 4 25 99-60 5/16–18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT – 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35	17	99-21	18.5" x 8.50" TIRE, 99	1
20 99-33 NUT — LUG (1/2"-20) 4 21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — HEX HEAD CAP GR5 ZINC (5/16-18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8-16 x 1.25) 4 25 99-60 5/16-18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725	18	99-24	KEY – 3/16 x 3/16 x 1 PLAIN	1
21 99-34 STUD — WHEEL 1/2"-20 4 22 99-37 SCREW — BUTTON HEAD SOCKET (5/16-18 x 1) 2 23 99-38 SCREW — HEX HEAD CAP GR5 ZINC (5/16-18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8-16 x 1.25) 4 25 99-60 5/16-18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37	19	99-32	SCREW — BUTTON HEAD SOCKET (1/2-13 x 3/4)	4
22 99-37 SCREW — BUTTON HEAD SOCKET (5/16–18 x 1) 2 23 99-38 SCREW — HEX HEAD CAP GR5 ZINC (5/16–18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8–16 x 1.25) 4 25 99-60 5/16–18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38	20	99-33	NUT — LUG (1/2"–20)	4
23 99-38 SCREW — HEX HEAD CAP GR5 ZINC (5/16–18 x 1.5) 1 24 99-59 SCREW — SOCKET HEAD CAP (3/8–16 x 1.25) 4 25 99-60 5/16–18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39	21	99-34	STUD — WHEEL 1/2"-20	4
24 99-59 SCREW — SOCKET HEAD CAP (3/8–16 x 1.25) 4 25 99-60 5/16–18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (BOTTOM) 1	22	99-37	SCREW — BUTTON HEAD SOCKET (5/16-18 x 1)	2
25 99-60 5/16–18 x 1.00 SHCS 6 26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 34 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (BOTTOM) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	23	99-38	SCREW — HEX HEAD CAP GR5 ZINC (5/16–18 x 1.5)	1
26 99-61 SCREW — SOCKET SHOULDER (3/4 x 5/8) 2 27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (BOTTOM) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	24	99-59	SCREW — SOCKET HEAD CAP (3/8-16 x 1.25)	4
27 99-687 SPREADER TUBE — FEEDER 1 28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	25	99-60	5/16-18 x 1.00 SHCS	6
28 99-688 ARM — DRIVE SIDE 1 29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (BOTTOM) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	26	99-61	SCREW — SOCKET SHOULDER (3/4 x 5/8)	2
29 99-689 ARM — OFF SIDE 1 30 99-690 TOP FRAME WELDMENT — 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	27	99-687	SPREADER TUBE — FEEDER	1
30 99-690 TOP FRAME WELDMENT – 99 FEEDER 1 31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	28	99-688	ARM — DRIVE SIDE	1
31 99-695 TOP AXLE WELDMENT 1 32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	29	99-689	ARM — OFF SIDE	1
32 99-713 TENSION ADJUSTMENT HANDLE 1 33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	30	99-690	TOP FRAME WELDMENT – 99 FEEDER	1
33 99-715 SPROCKET — DRIVEN, FEEDER 2 34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	31	99-695	TOP AXLE WELDMENT	1
34 99-723 HANDLE — FEEDER 2 35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	32	99-713	TENSION ADJUSTMENT HANDLE	1
35 99-725 BRACKET FAB — TENSIONER 1 36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	33	99-715	SPROCKET — DRIVEN, FEEDER	2
36 99-725A BRACKET FAB — TENSIONER 1 37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	34	99-723	HANDLE — FEEDER	2
37 99-739 MOTOR BRACKET WELDMENT (TOP) 1 38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	35	99-725	BRACKET FAB — TENSIONER	1
38 99-74 SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2) 4 39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	36	99-725A	BRACKET FAB — TENSIONER	1
39 99-742 UPPER CHAIN GUARD (TOP) 1 40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	37	99-739	MOTOR BRACKET WELDMENT (TOP)	1
40 99-743 UPPER CHAIN GUARD (BOTTOM) 1	38	99-74	SCREW – BUTTON HEAD SOCKET (1/4)–20 x 1/2)	4
	39	99-742	UPPER CHAIN GUARD (TOP)	1
	40	99-743	UPPER CHAIN GUARD (BOTTOM)	1
	41	99-756		1
42 99-77 SCREW — HEX HEAD CAP GR5 ZINC (3/8–16 x 2.5) 2	42	+		0
43 99-774 WASHER — SHAFT 2		99-77	SCREW — HEX HEAD CAP GR5 ZINC (3/8–16 x 2.5)	2
44 99-776 COVER — MOTOR BRACKET, TOP 1	43	1		

PARTS LIST — UPPER DRIVE — CONTINUED

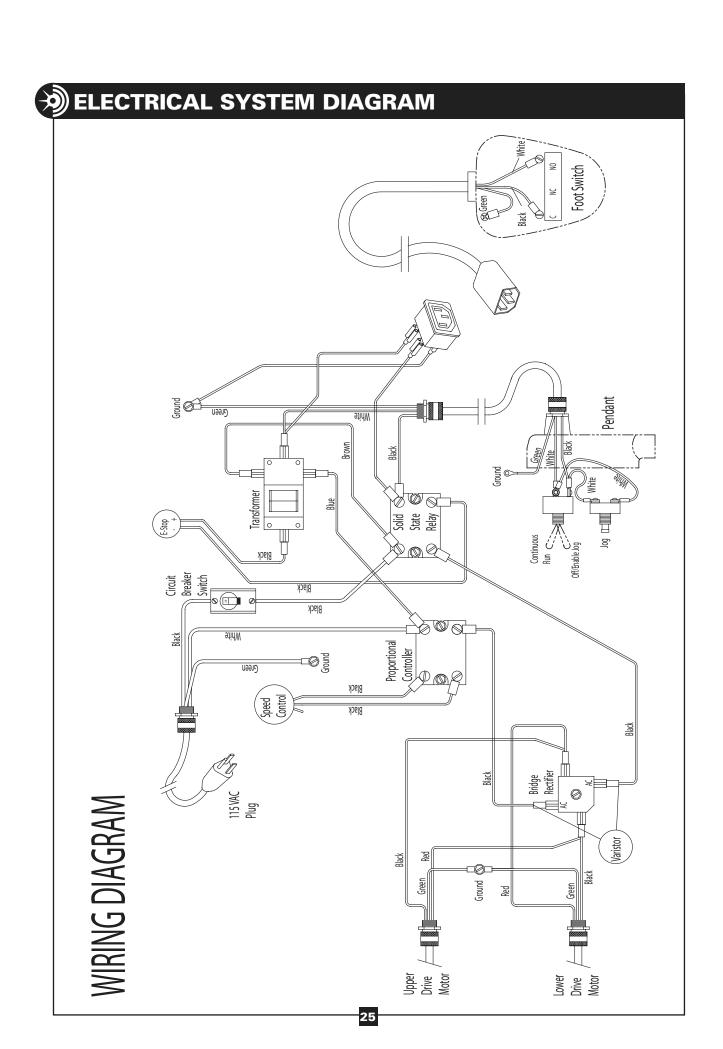
ITEM #	PART #	DESCRIPTION	QTY.
IIEIVI#	PANI#	DESCRIPTION	QI Y.
45	99-777	COVER — MOTOR BRACKET, BOTTOM	1
46	99-786	LATCH — TOP TIRE	1
47	99-787	PIN — LATCH	1
48	99-796	STRAP — CHAIN GUARD	1
49	99-816	STRAP — CHAIN GUARD	1
50	99-80	STEEL CABLE, 1/16OD x 8" LG	2
51	670-6	FERRULE — DOUBLE	4
52	99-53	DRIVE CHAIN	1
53	99-85	MASTER LINK	1

EXPLODED VIEW AND PARTS LIST — FINAL ASSEMBLY

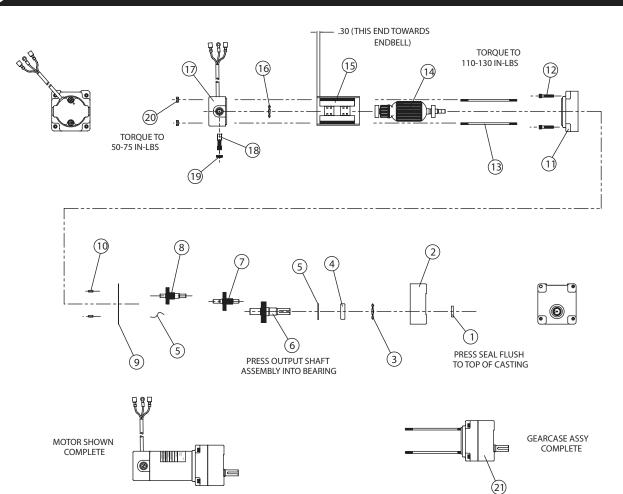


ITEM #	PART #	DESCRIPTION	QTY.
1	2-1111	PIN — ROLL 3/16" x 1-1/4"	1
2	2-1301-4	NUT — HEX NYLON INSERT (5/16"-18)	2
3	33-53	SCREW — HEX HEAD CAP GR5 ZINC (3/8-16 x 3/4)	2
4	99-9	UPPER DRIVE CLAMP	1
5	99-29	SCREW — SOCKET HEAD CAP (5/16-18 x 1/2)	8
6	99-37	SCREW — BUTTON HEAD SOCKET (5/16-18 x 1)	6
7	99-41	BALL — GAS SPRING	2
8	99-64	GAS SPRING	1
9	99-400	99 LOWER DRIVE ASSEMBLY	1
10	99-500	99 UPPER DRIVE ASSEMBLY	1
11	99-714	ROD – REAR SUPPORT HOLDER	1
12	99-717	HINGE — CAGE	1
13	99-735	T — STABILIZER	1
14	99-768	STOP STRAP	1
15	99-823	STABILIZER WELDMENT	1
16	99-827	CABLE SEPARATOR	1
17	406-3	SPRING CLIP	1
18	610-25	NUT — HEX NYLON INSERT (3/8-16)	2

EXPLODED VIEW — ELECTRICAL SYSTEM (15) (20) (24) CONTROL BOX 40) (48) 15 (15 (11) REMOTE PENDANT FOOT SWITCH ASSEMBLY - (optional)



EXPLODED VIEW/PARTS LIST — GEAR MOTOR



ITEM#	QTY	DESCRIPTION	PART#
1	1	OUTPUT SHAFT OIL SEAL	99-2A
2	1	GEARCASE COVER W/NEEDLE BEARINGS	99-2B
3	1	WAVE WASHER	99-2C
4	1	BALL BEARING	99-2D
5	1	INTERNAL SNAP RING	99-2E
6	1	OUTPUT SHAFT GEAR ASSEMBLY	99-2F
7	1	3RD STAGE GEAR/PINION ASSEMBLY	99-2G
8	1	2ND STAGE GEAR/PINION ASSEMBLY	99-2H
9	1	GEARCASE GASKET	99-21
10	2	DOWEL PIN	99-2J
11	1	INPUT GEARCASE WITH NEEDLE BEARINGS	99-2K
12	4	SOCKET HEAD CAP SCREW	99-2L
13	2	MOTOR STUD	99-2M
14	1	ARMATURE & BEARING ASSEMBLY	99-2N
15	1	MAGNET & HOUSING ASSEMBLY	99-20
16	1	WAVE WASHER	99-2P
17	1	COMMUTATOR END BELL ASSEMBLY	99-20
18	2	BRUSH ASSEMBLY	99-2R
19	2	BRUSH CAP	99-2S
20	2	10-32 "K" NUT	99-2T
21	1	GEARCASE ASSEMBLY COMPLETE	99-2U