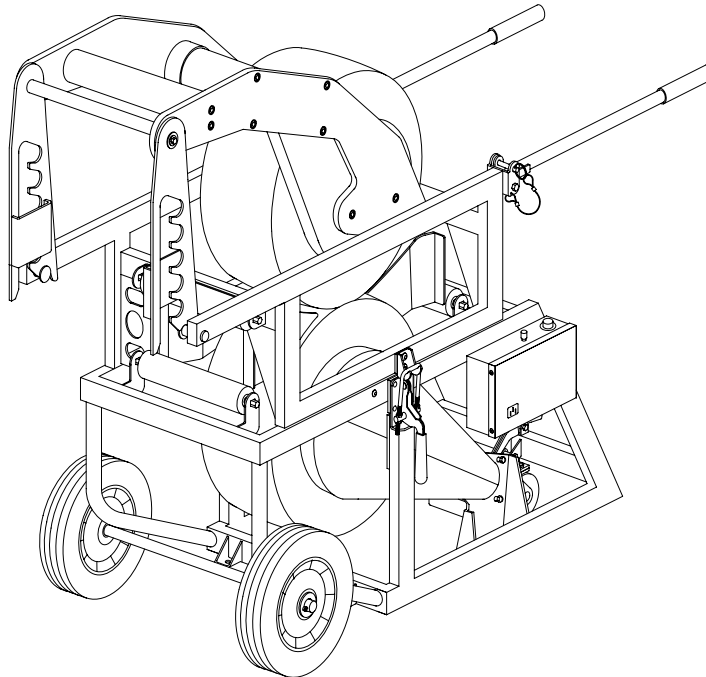




Current Tools

FOR THE PROFESSIONAL ELECTRICIAN

Model 99 Cable Feeder



Operating, Maintenance, Safety and Parts Manual

02/2016



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.

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

DANGER

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

WARNING

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

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.



IMPORTANT SAFETY INFORMATION

⚠ DANGER

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

⚠ DANGER

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

⚠ WARNING

Keep 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.

⚠ WARNING

An emergency stop is provided on the Cable Feeder for your safety. Always inspect before each use to ensure proper operation.

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

Upper drive clamp **MUST** be in closed, locked position before attempting to lift the Cable Feeder. For instructions on lifting the Cable Feeder, see Page 6.

⚠ WARNING

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

⚠ WARNING

Unplug the Cable Feeder before servicing or maintenance.

⚠ WARNING

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

⚠ WARNING

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.

⚠ WARNING

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.

⚠ CAUTION

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.

⚠ CAUTION

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



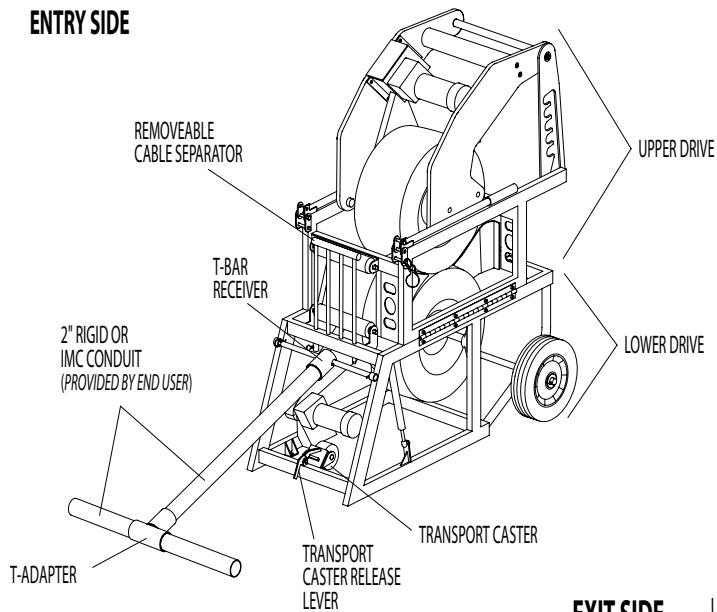
SPECIFICATIONS

- 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

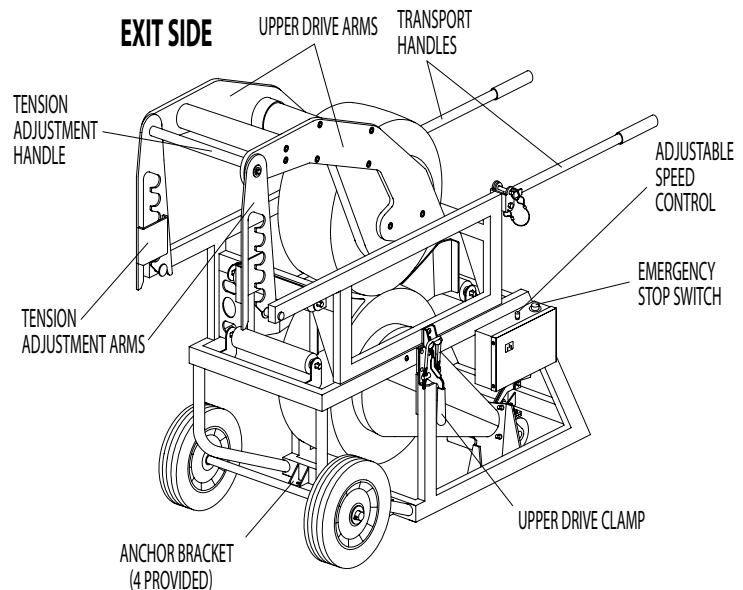
FEATURES

- 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

ENTRY SIDE



EXIT SIDE





TRANSPORTING THE CABLE FEEDER

TO ROLL ON A SMOOTH SURFACE:

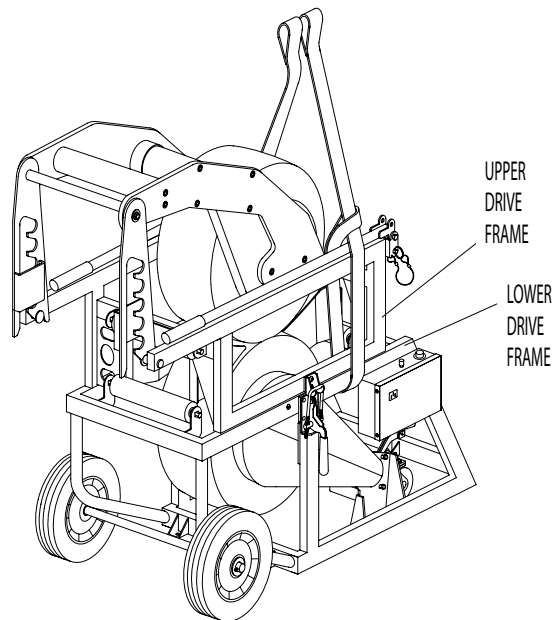
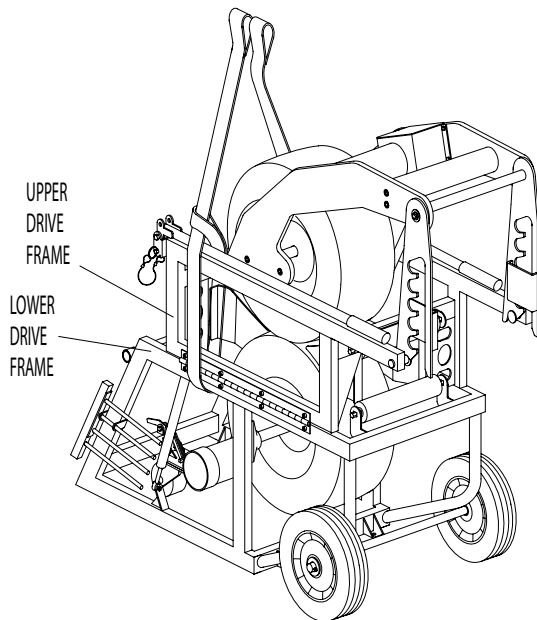
Rotate both transport handles and pin into position with the detent pins provided. Next, lift the Cable Feeder by the handles and the transport caster will rotate into place. To retract the caster, lift up on the transport handles and push the transport caster release lever with your foot. This will 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 upper drive frame as shown below.

▲ WARNING

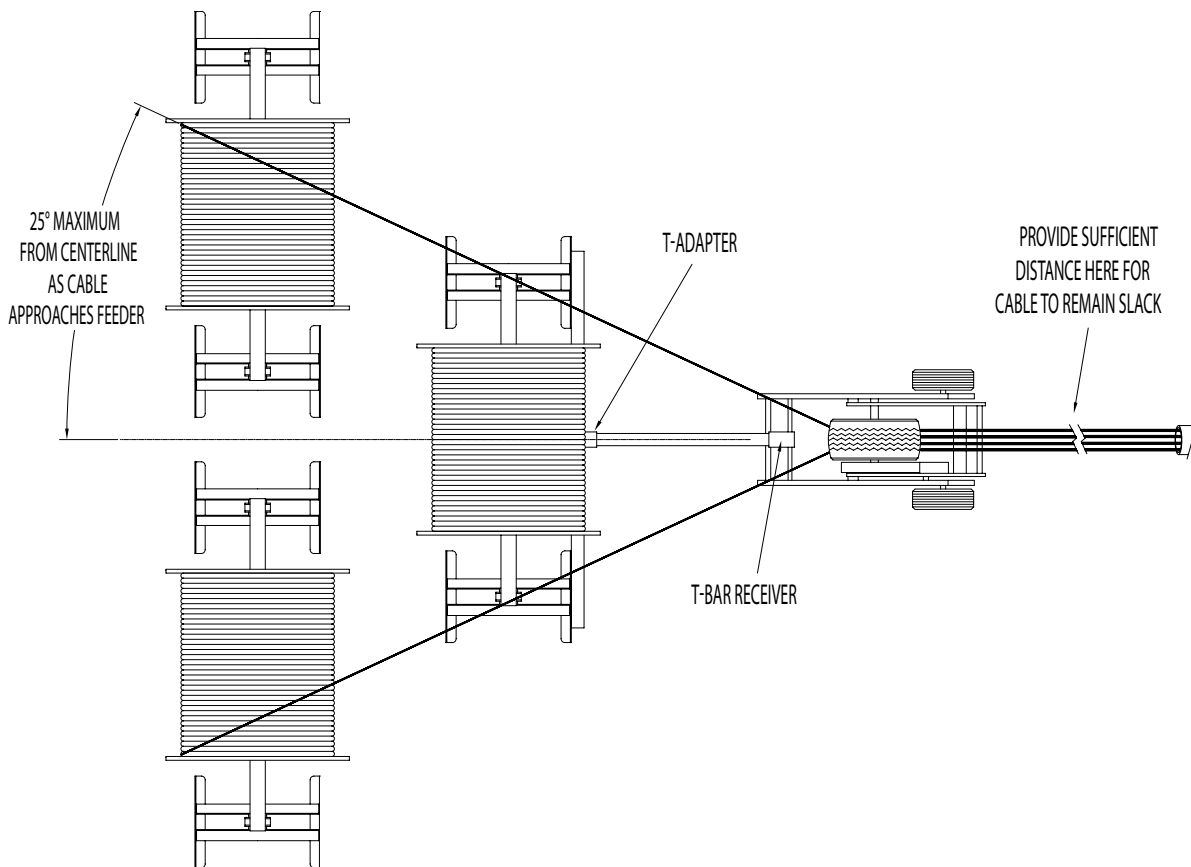
Upper drive clamp MUST be in closed, locked position before attempting to lift the Cable Feeder.



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.

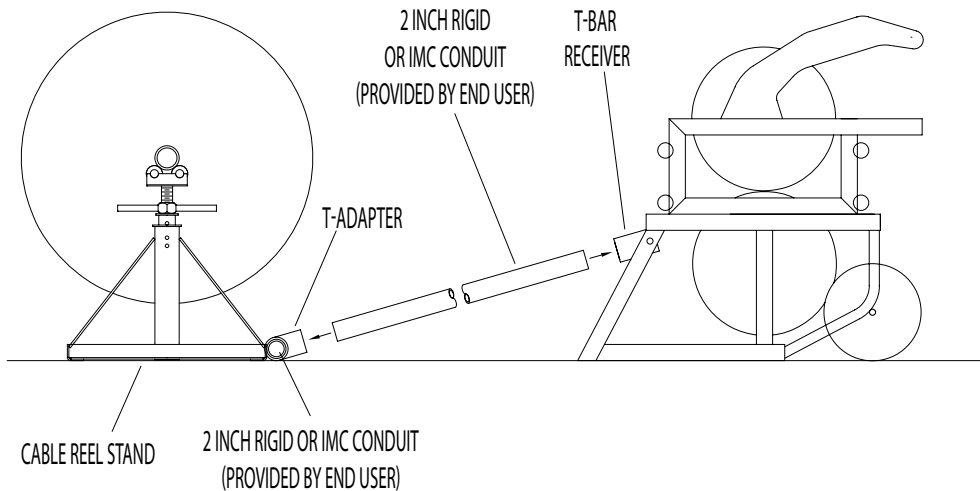


To secure the Cable Feeder:

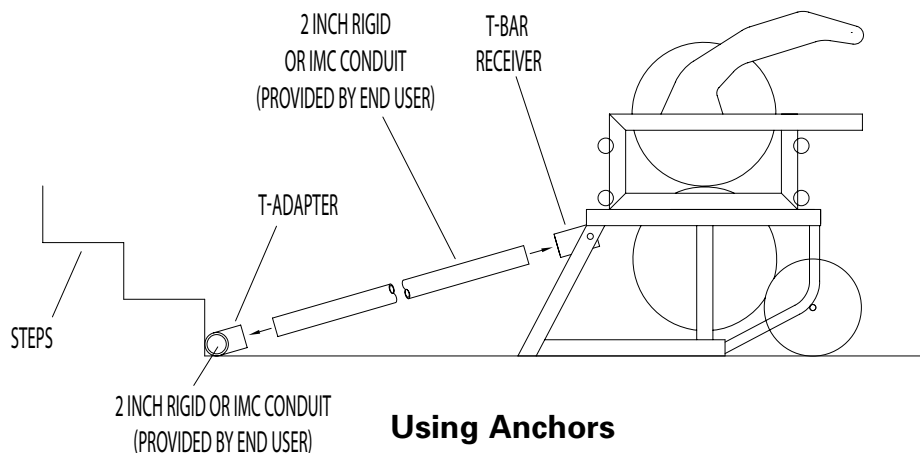
Using T-Bar

- 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.



Using Anchors

- 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).



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

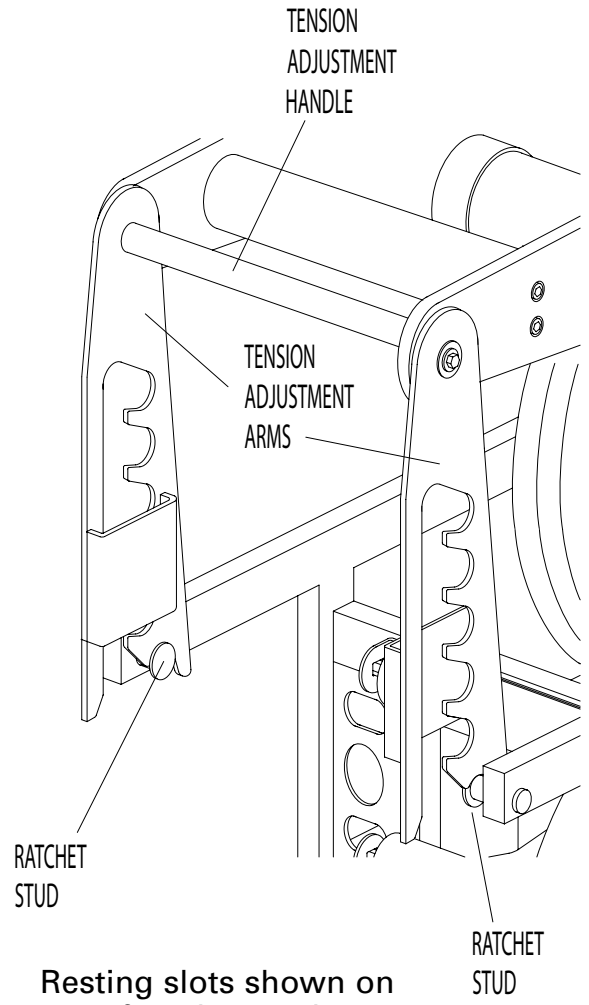


LOADING CABLE INTO THE CABLE FEEDER

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.



Lifting tension adjustment arms to place resting slots on top of ratchet studs.



Resting slots shown on top of ratchet studs.

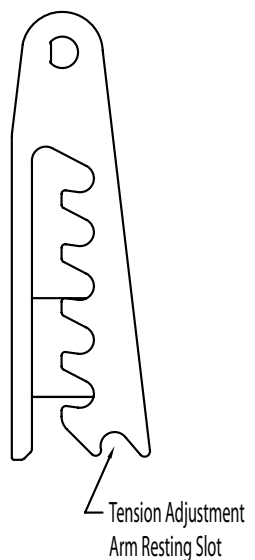


Figure 1

LOADING CABLE INTO THE FEEDER *continued . . .*

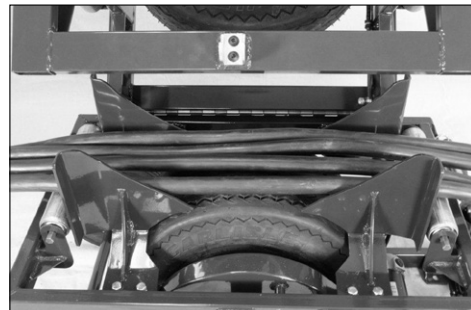
2. Next, release the upper drive clamp and raise the upper drive.

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

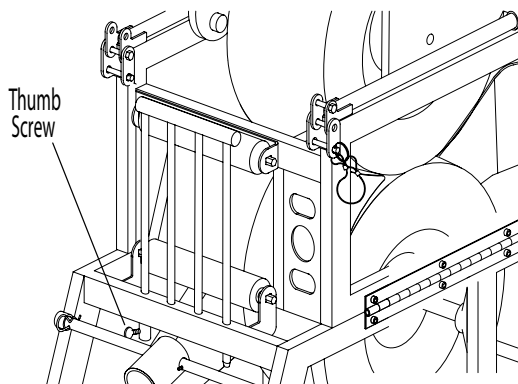


Note: Pull safety lock as shown to release upper drive clamp

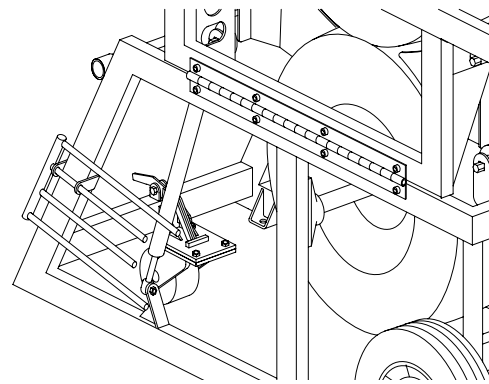
3. Place the cables over the lower tire, being sure not to cross the cables.



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.

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:

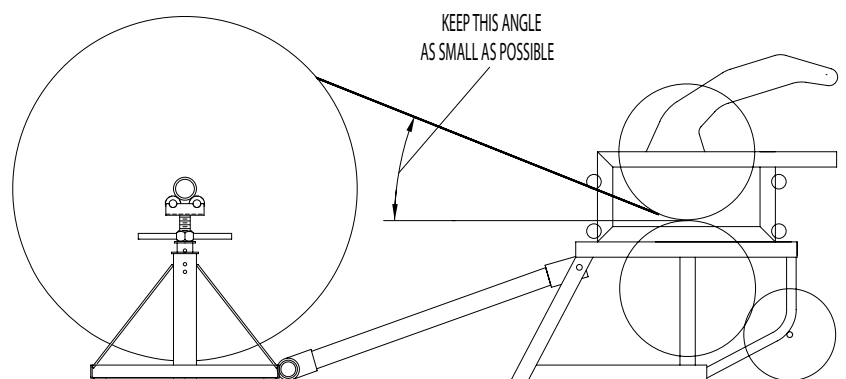
- For continuous run: Place the pendant on/off switch in the "continuous on" position.
 - For intermittent operation: With the pendant continuous on/off switch in the OFF position, depress the pendant jog button.
 - If equipped with optional foot switch: Plug the foot switch into the foot switch outlet 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 **NOT** 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.

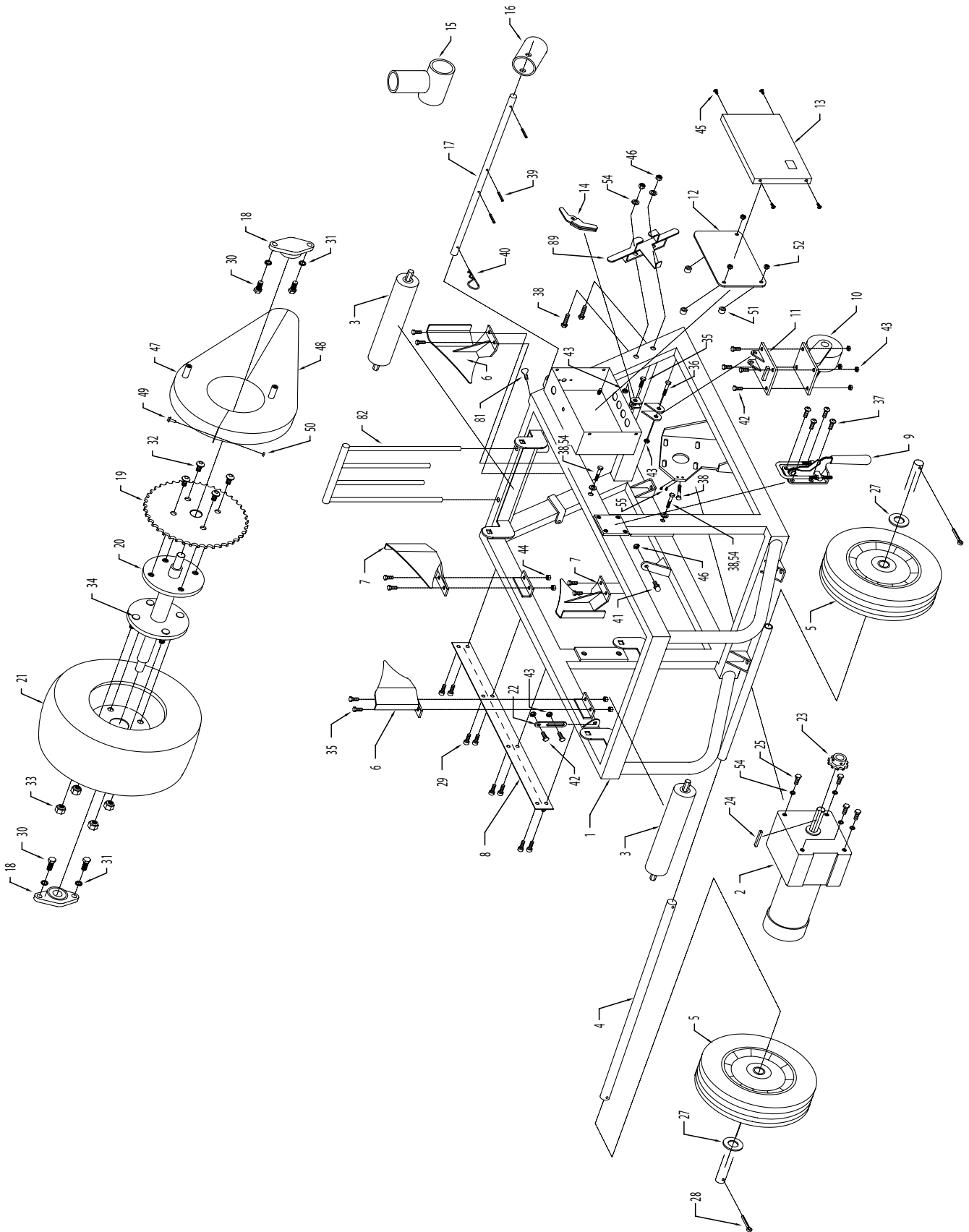


MAINTENANCE

- 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.

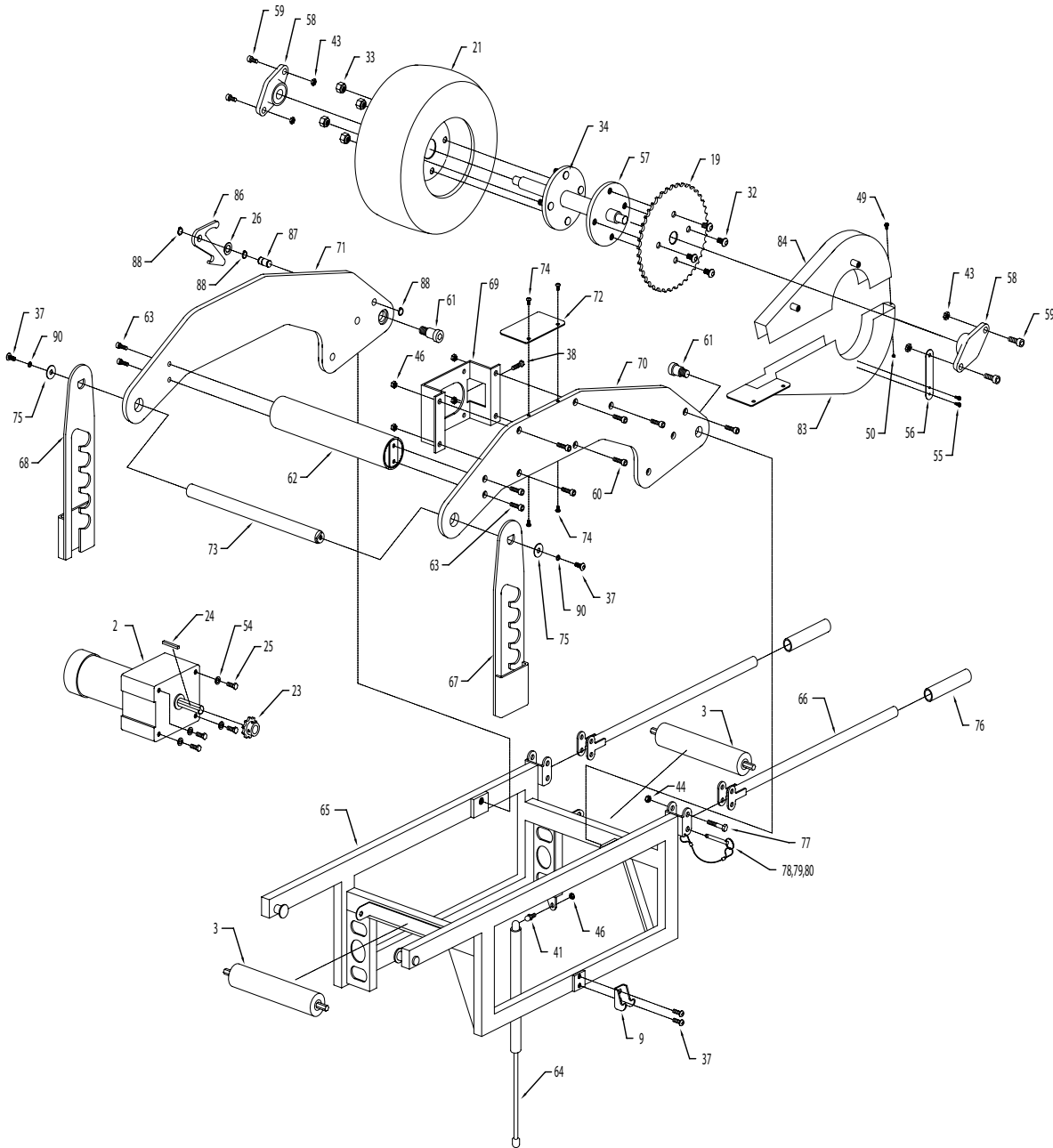
refer to **PARTS LIST** on pages 17 & 18

EXPLODED VIEW — LOWER DRIVE



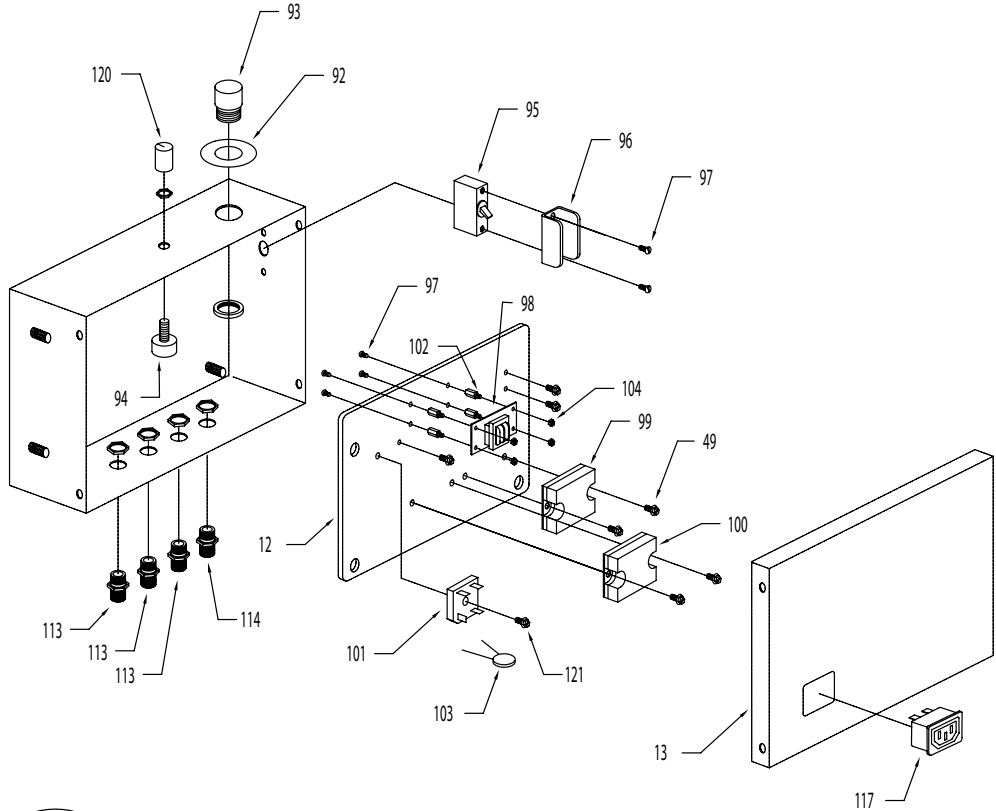
refer to **PARTS LIST** on pages 17 & 18

EXPLODED VIEW — UPPER DRIVE

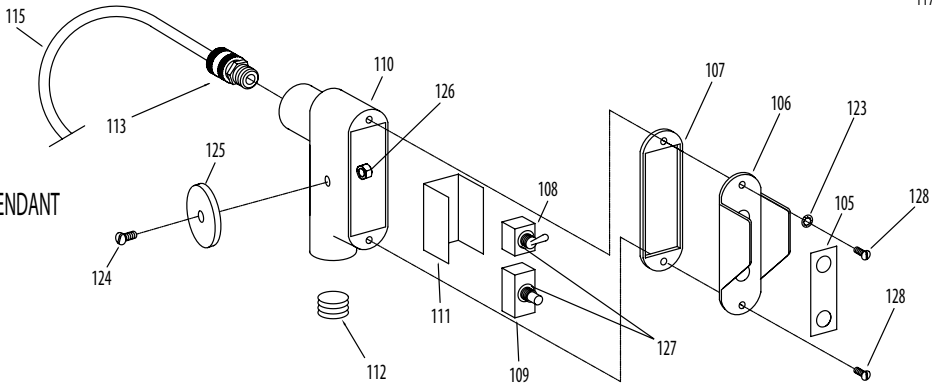


EXPLODED VIEW — ELECTRICAL SYSTEM

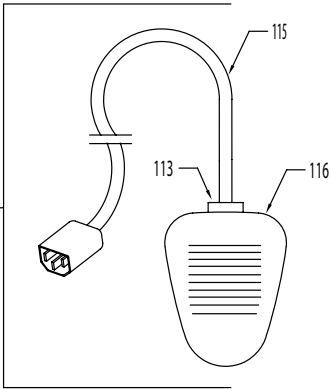
CONTROL BOX



REMOTE PENDANT



FOOT SWITCH ASSEMBLY
(optional)





PARTS LIST — 99 CABLE FEEDER

ITEM #	QTY	DESCRIPTION	PART #
1	1	LOWER FRAME	99-694
2	2	GEAR MOTOR	99-2
3	4	ROLLER	99-3
4	1	AXLE	99-545
5	2	WHEEL	99-5
6	2	GUIDE	99-744A
7	2	GUIDE	99-744
8	1	HINGE	99-717
9	1	UPPER DRIVE CLAMP	99-9
10	1	CASTER	99-10
11	1	CASTER PLATE	99-730
12	1	ELECTRICAL PLATE	99-727
13	1	ELECTRICAL COVER	99-729
14	1	CASTER LOCK	99-790
15	1	T-ADAPTER	99-735
16	1	T-BAR RECEIVER	99-692
17	1	ROD	99-714
18	2	BEARING - FLANGE, PLAIN 3/4"	99-18
19	2	SPROCKET - RC40-72T	99-715
20	1	BOTTOM AXLE	99-696
21	2	TIRE	99-21
22	1	STOP BRACKET	99-768
23	2	SPROCKET - RC40-10T	99-756
24	2	KEY - SQUARE 3/16" x 1"	99-24
25	8	SCREW - HEX HEAD CAP 5/16-18 x 3/4"	77-002D1
26	1	WASHER - FLAT 1/2"	12024-7
27	2	WASHER - FLAT 3/4"	77-017
28	2	COTTER PIN 3/16" x 1-1/4"	77-016
29	8	SCREW - SOCKET HEAD CAP 5/16-18 x 1/2"	99-29
30	4	SCREW - HEX HEAD CAP 7/16-14 x 1"	99-30
31	4	WASHER - LOCK 7/16"	99-31
32	8	SCREW - BUTTON HEAD SOCKET 1/2-13 x 3/4"	99-32
33	8	NUT - LUG (1/2-20)	99-33
34	8	STUD - WHEEL 1/2-20	99-34
35	9	SCREW - HEX HEAD CAP 3/8-16 x 1"	524-11
36	1	SCREW - HEX HEAD CAP 3/8-16 x 2"	528-2
37	8	SCREW - BUTTON HEAD SOCKET 5/16-18 x 1"	99-37
38	6	SCREW - HEX HEAD CAP 5/16-18 x 1-1/2"	99-38
39	3	PIN - ROLL 3/16 x 1-1/4"	2-1111
40	1	R - CLIP	406-3
41	2	BALL - GAS SPRING	99-41
42	6	SCREW - HEX HEAD CAP 3/8-16 x 3/4"	33-53
43	12	NUT - HEX THIN NYLON INSERT (3/8-16)	610-25
44	10	NUT - HEX NYLON INSERT (3/8-16)	2-1501-4
45	4	SCREW - PAN HEAD 10-32 x 3/8"	77-066A
46	8	NUT - HEX NYLON INSERT (5/16-18)	2-1301-4
47	1	LOWER CHAIN GUARD (TOP)	99-740
48	1	LOWER CHAIN GUARD (BOTTOM)	99-741
49	9	SCREW - TC #8-32 x 3/8"	77-004A
50	2	NUT - HEX (#8-32)	453-16A
51	3	SPACER	450-20
52	3	NUT - HEX (1/4-20)	9518SR-12
53	2	DRIVE CHAIN - (NOT SHOWN)	99-53
54	12	WASHER - FLAT (5/16) USS	9544-21
55	13	SCREW - HEX #10 x 1/2"	77-033A
56	1	STRAP - CHAIN GUARD	99-796
57	1	TOP AXLE	99-695
58	2	BEARING - FLANGE, BALL 3/4"	99-58
59	4	SCREW - SOCKET HEAD CAP 3/8-16 x 1-1/4"	99-59
60	6	SCREW - SOCKET HEAD CAP 5/16-18 x 1"	99-60
61	2	SCREW - SOCKET SHOULDER (3/4" x 5/8")	99-61
62	1	TUBE-SPREADER	99-687
63	4	SCREW - SOCKET HEAD CAP 3/8-16 x 1"	750-25
64	1	GAS SPRING	99-64

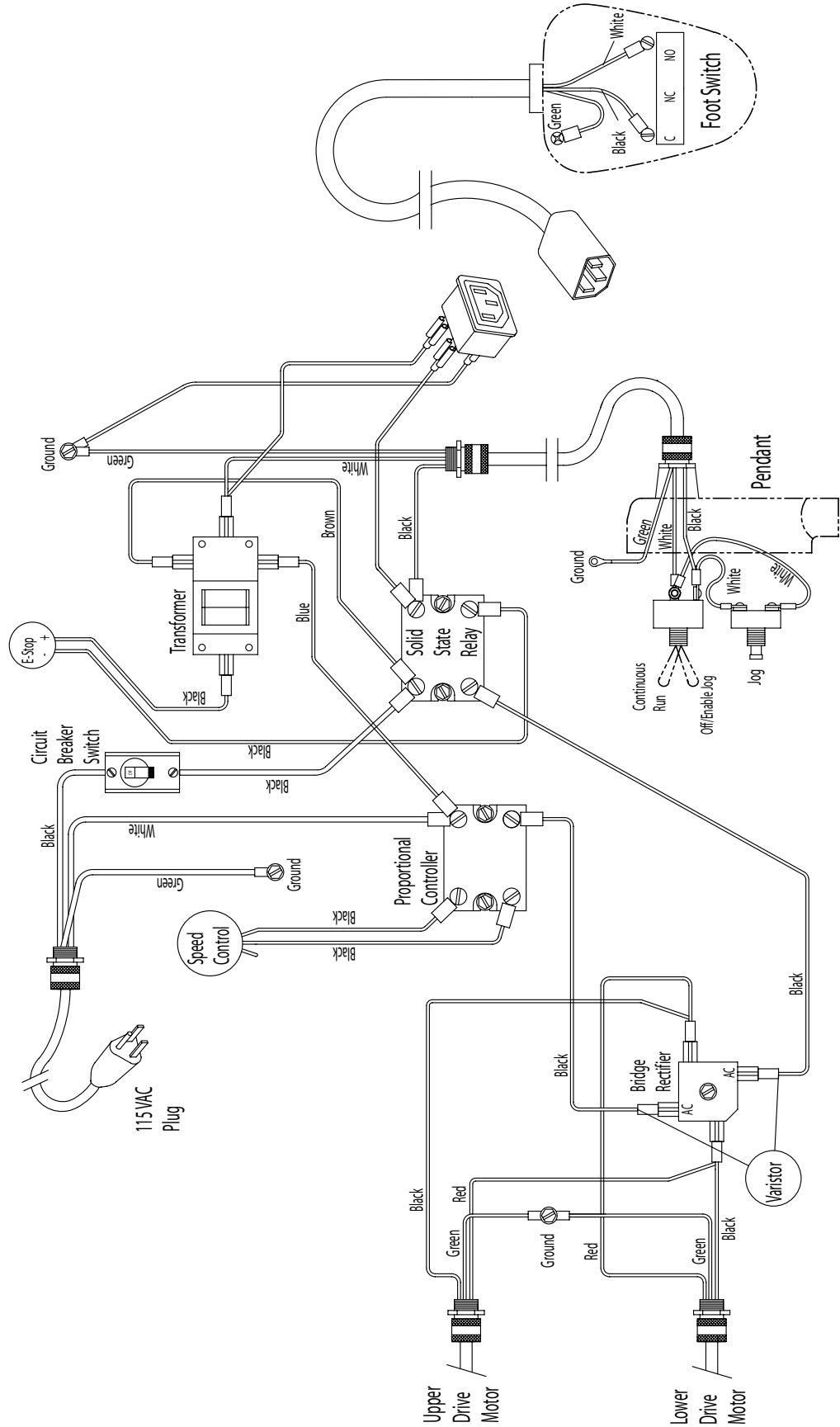
PARTS LIST *continued . . .*

65	1	UPPER FRAME	99-690
66	2	HANDLE	99-723
67	1	BRACKET - TENSIONER (RH)	99-725
68	1	BRACKET - TENSIONER (LH)	99-725A
69	1	MOTOR BRACKET	99-739
70	1	ARM - MOTOR SIDE	99-688
71	1	ARM - NON-MOTOR SIDE	99-689
72	1	COVER - MOTOR BRACKET	99-776
73	1	TENSION ADJUSTMENT HANDLE	99-713
74	4	SCREW - BUTTON HEAD SOCKET 1/4-20 x 1/2"	99-74
75	2	WASHER	99-774
76	2	GRIP	140-7
77	2	SCREW - HEX HEAD CAP 3/8-16 x 2-1/2"	99-77
78	2	PIN - QUICK RELEASE 3/8 x 2-1/4"	9548-7
79	4	FERRULE - DOUBLE	670-6
80	2	1/16" STRANDED CABLE x 8"	99-80
81	1	THUMB SCREW	66-56
82	1	CABLE SEPARATOR	99-737
83	1	UPPER CHAIN GUARD (BOTTOM)	99-743
84	1	UPPER CHAIN GUARD (TOP)	99-742
85	2	MASTER LINK-(NOT SHOWN)	99-85
86	1	LATCH - UPPER DRIVE ARMS	99-786
87	1	PIN-LATCH	99-787
88	3	RING - RETAINER 1/2" SHAFT	750-21
89	1	FOOT SWITCH STORAGE BRACKET	33-706
90	2	WASHER - LOCK 5/16"	412-11
91	9	CORD RETAINER	66-62
92	1	E-STOP LEGEND PLATE	99-92
93	1	E-STOP	99-93
94	1	SPEED CONTROL	99-94
95	1	CIRCUIT BREAKER SWITCH	88-47
96	1	SWITCH PROTECTOR	77-063
97	8	SCREW - PAN HEAD (#6-32)	77-061
98	1	TRANSFORMER	99-98
99	1	SOLID STATE RELAY	99-99
100	1	PROPORTIONAL CONTROLLER	99-100
101	1	BRIDGE RECTIFIER	99-101
102	4	STAND OFF - NYLON	99-102
103	1	VARISTOR	99-103
104	4	NUT - HEX (#6-32)	77-036A
105	1	DECAL	99-105
106	1	GUARD - PENDANT	77-050
107	1	GASKET	77-451
108	1	SWITCH - FORWARD / REVERSE	77-051
109	1	SWITCH - JOG	77-052
110	1	CONDULET - 1/2"	77-048
111	1	FISH PAPER	77-065
112	1	PLUG - PLASTIC	77-3-1A
113	5	STRAIN RELIEF	77-028A
114	1	STRAIN RELIEF	77-028
115	1	CORD (16/3-8') - PENDANT	99-115
116	1	FOOT SWITCH	33-45
117	1	OUTLET - FOOT SWITCH	99-117
118	1	POWER CORD (NOT SHOWN)	450-4
119	1	CORD ASSEMBLY - FOOT SWITCH	99-119
120	1	KNOB - SPEED CONTROL	99-120
121	1	SCREW - TC (#8-32 x 5/8")	77-004B
122	1	FOOT SWITCH ASSEMBLY	99-122
123	1	LOCKWASHER, EXT. TOOTH - #8	747-39
124	1	SCREW, ROUND HEAD SLOT - 10-32 x 3/8"	451-22
125	1	MAGNET - ROUND	747-19
126	1	NUT, HEX - THIN NYLON INSERT #10-32	747-34
127	2	LOCK WASHER, INT. TOOTH - 15/32"	747-40
128	2	SCREW, PAN HEAD SLOT - #8-32 x 3/8"	77-053



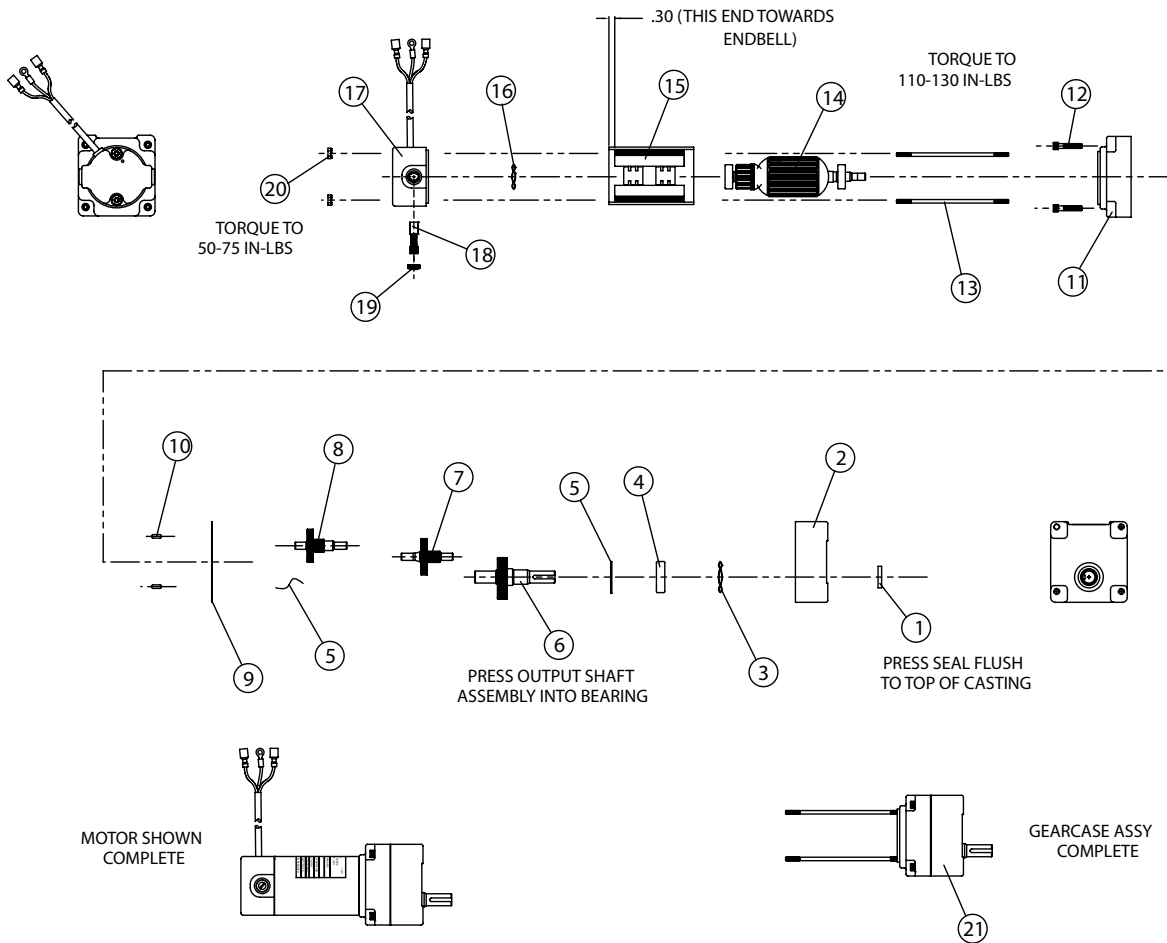
ELECTRICAL SYSTEM DIAGRAM

WIRING DIAGRAM





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	99-2I
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	99-2O
16	1	WAVE WASHER	99-2P
17	1	COMMUTATOR END BELL ASSEMBLY	99-2Q
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