

WATERING SYSTEM INSTRUCTIONS

FOR 6 VOLT WET CELL BATTERIES

PLEASE REFER TO SEPARATE

“PRO-FILL ON-BOARD WATERING SYSTEM”

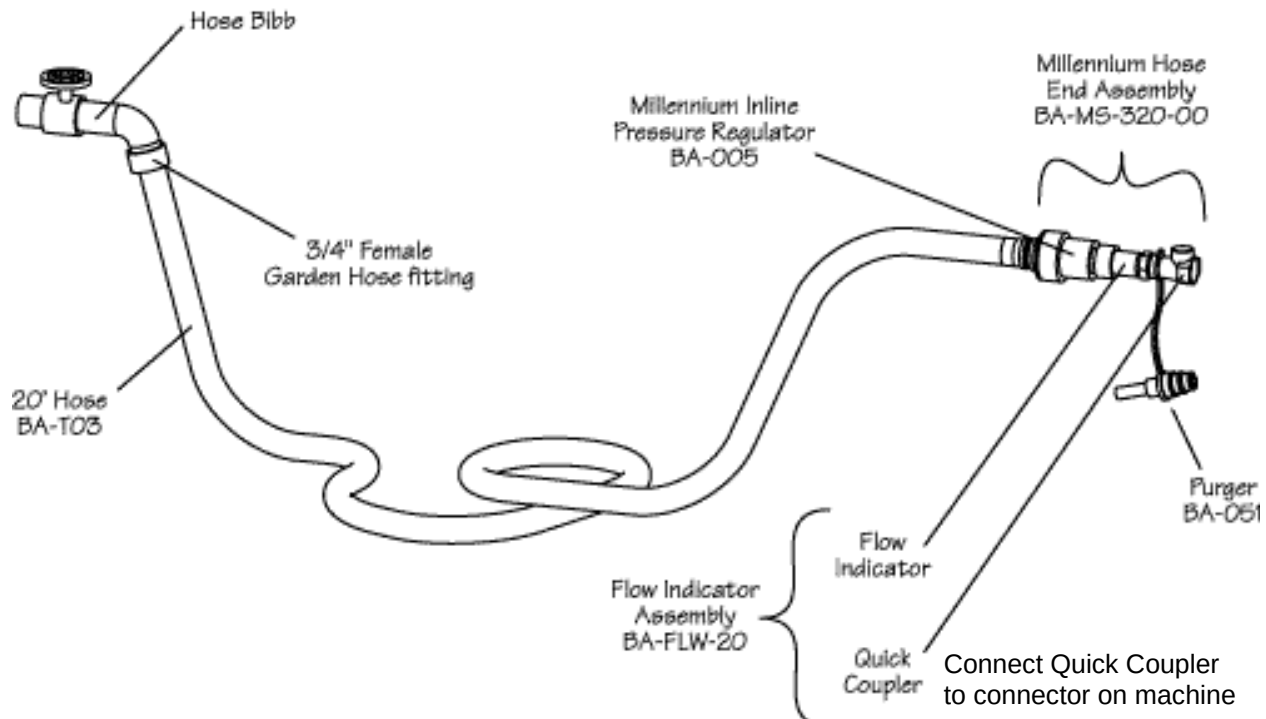
MANUAL FOR DETAILED INFORMATION

BATTERY FILL INSTRUCTIONS

- Connect the hose to a dedicated hose bibb.
- After installing, purge the air out of the hose. Purging is necessary after the Millennium SPW™ system is installed and each time that the system is disconnected and reconnected to the hose bibb. See included Purge Procedure instructions.

PURGING IS REQUIRED BEFORE FIRST USE, OR IF HOSE ASSEMBLY HAS BEEN REINSTALLED SINCE LAST USE
(See next page and separate manual)

- **REFILL BATTERIES AFTER THEY HAVE BEEN CHARGED.** One watering per week is usually enough. Firmly mate the quick coupler. When the connection is made the red balls in the Flow Indicator will start rotating indicating water is flowing into the battery cells.
- After the Flow Indicator balls stop rotating, immediately disconnect by
- pushing the CPC button in and pulling the male Quick Coupler out.
- Put the dust cover back on the battery's male Quick Coupler.
- Store hose out of traffic area when not in use.



WATERING SYSTEM INSTRUCTIONS

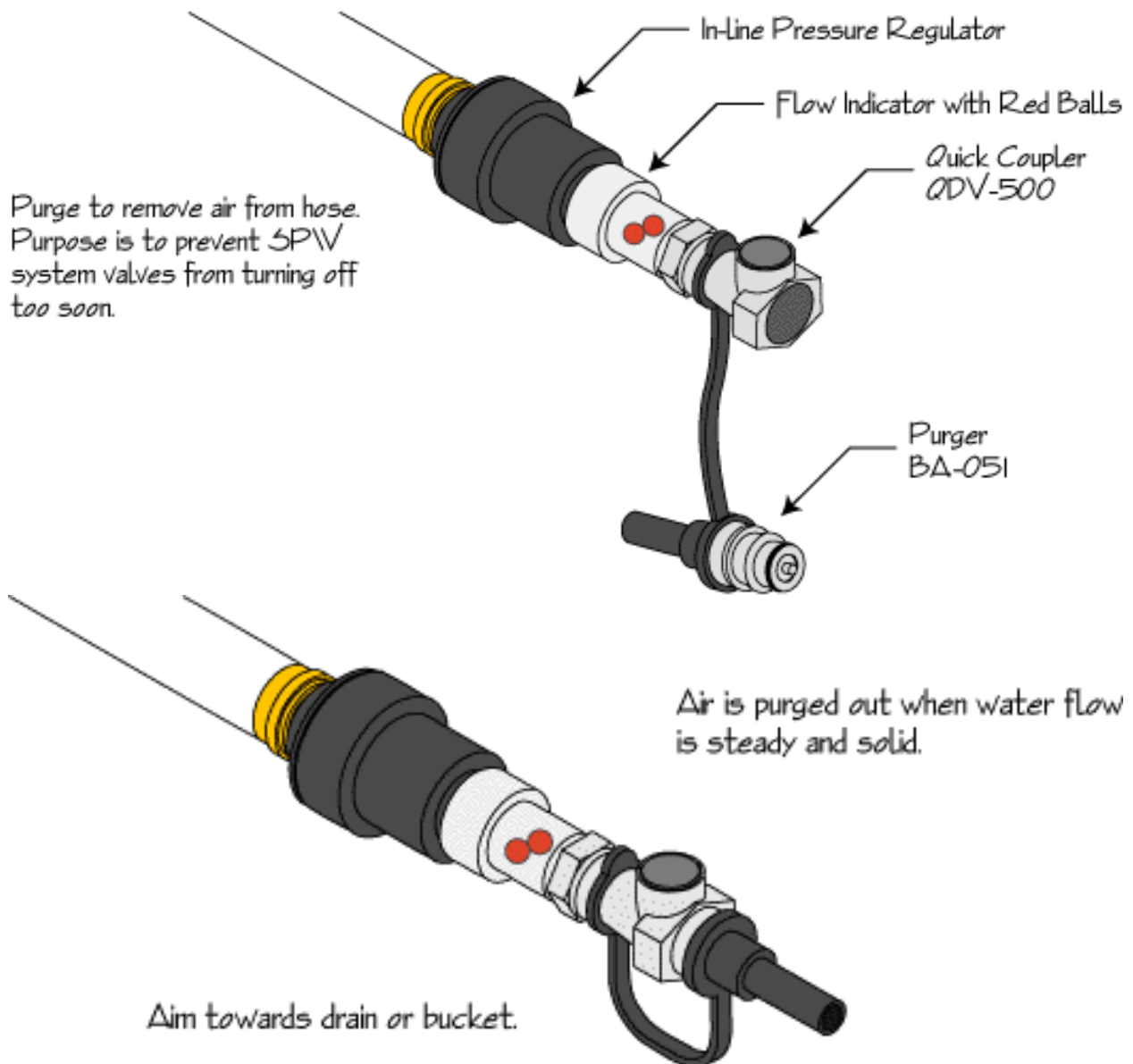
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MANUAL FOR DETAILED INFORMATION

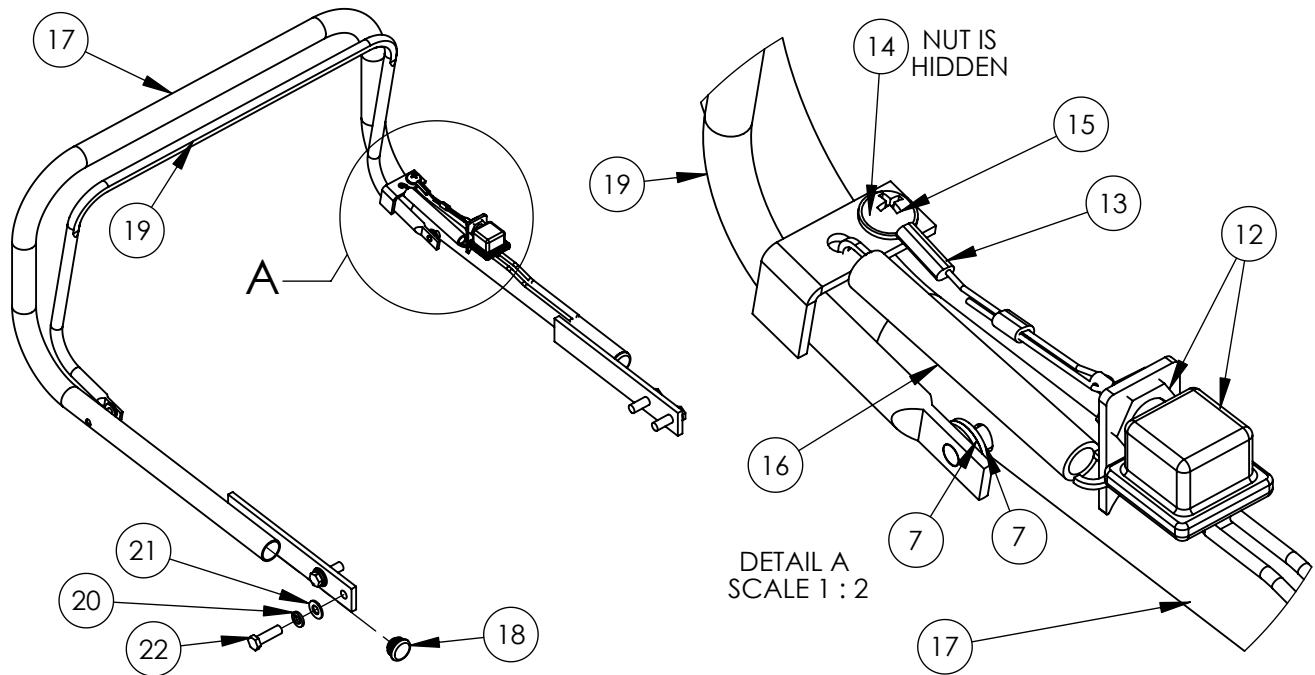
PURGING INSTRUCTIONS



This exploded view diagram illustrates the assembly of a turnstile. The main components are shown in their relative positions with numbered callouts:

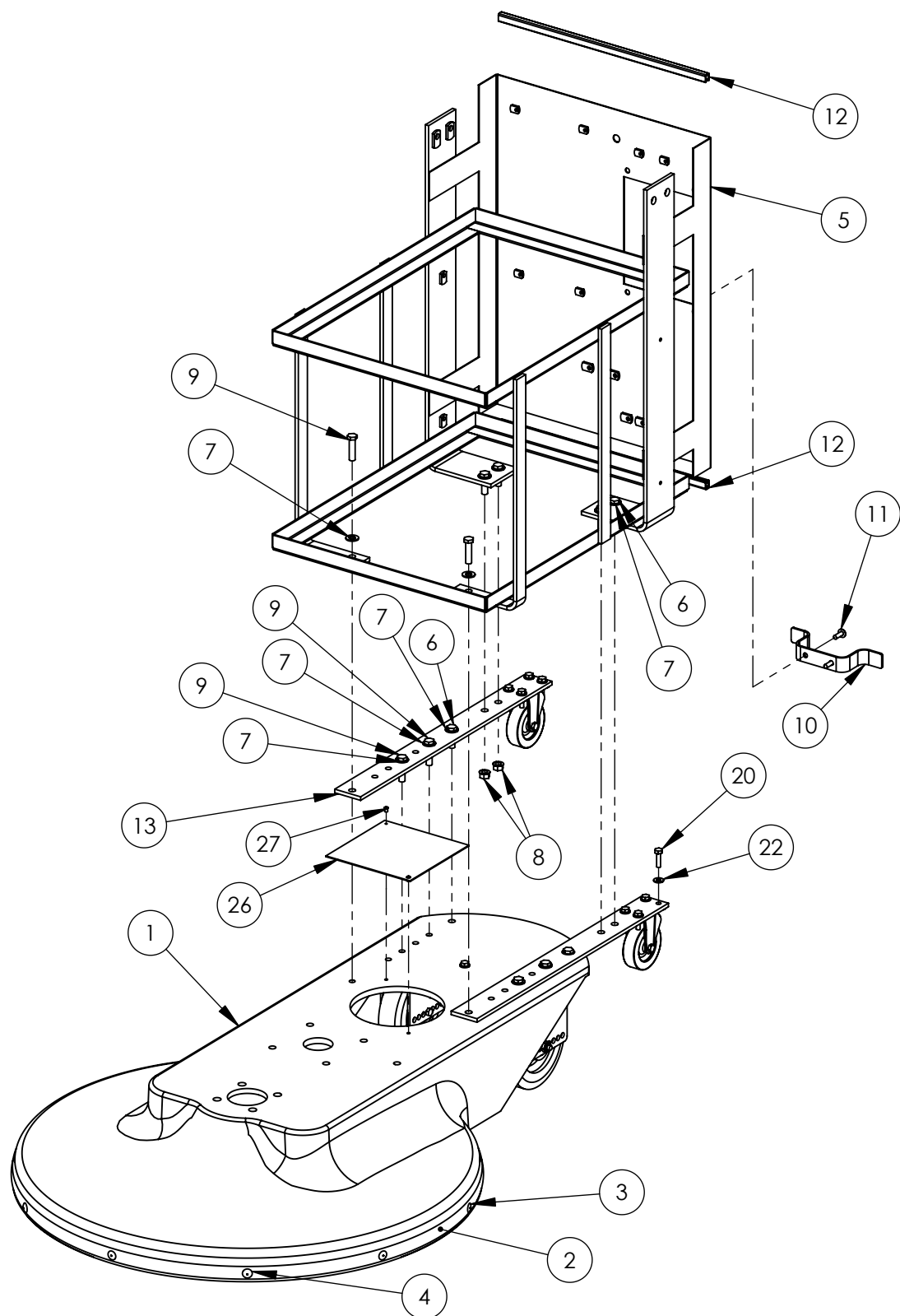
- 1**: The main turnstile body, including the top housing and the central rotating column.
- 2**: The top housing or canopy of the turnstile.
- 3**: A mounting bracket or plate used to secure the top housing.
- 4**: The central rotating column.
- 5**: A component, likely a bearing or bush, located at the base of the central column.
- 6**: A mounting bracket or plate used to secure the central column.
- 7**: A component, likely a bearing or bush, located at the base of the central column.
- 8**: A mounting bracket or plate used to secure the central column.
- 9**: A component, likely a bearing or bush, located at the base of the central column.
- 10**: A mounting bracket or plate used to secure the central column.
- 11**: A mounting bracket or plate used to secure the central column.
- 12**: A mounting bracket or plate used to secure the central column.
- 13**: A mounting bracket or plate used to secure the central column.
- 14**: A mounting bracket or plate used to secure the central column.
- 15**: A mounting bracket or plate used to secure the central column.
- 16**: A mounting bracket or plate used to secure the central column.
- 17**: A mounting bracket or plate used to secure the central column.
- 18**: A mounting bracket or plate used to secure the central column.
- 19**: A mounting bracket or plate used to secure the central column.
- 20**: A mounting bracket or plate used to secure the central column.
- 21**: A mounting bracket or plate used to secure the central column.
- 22**: A mounting bracket or plate used to secure the central column.

XT3-27 COVER AND HANDLE

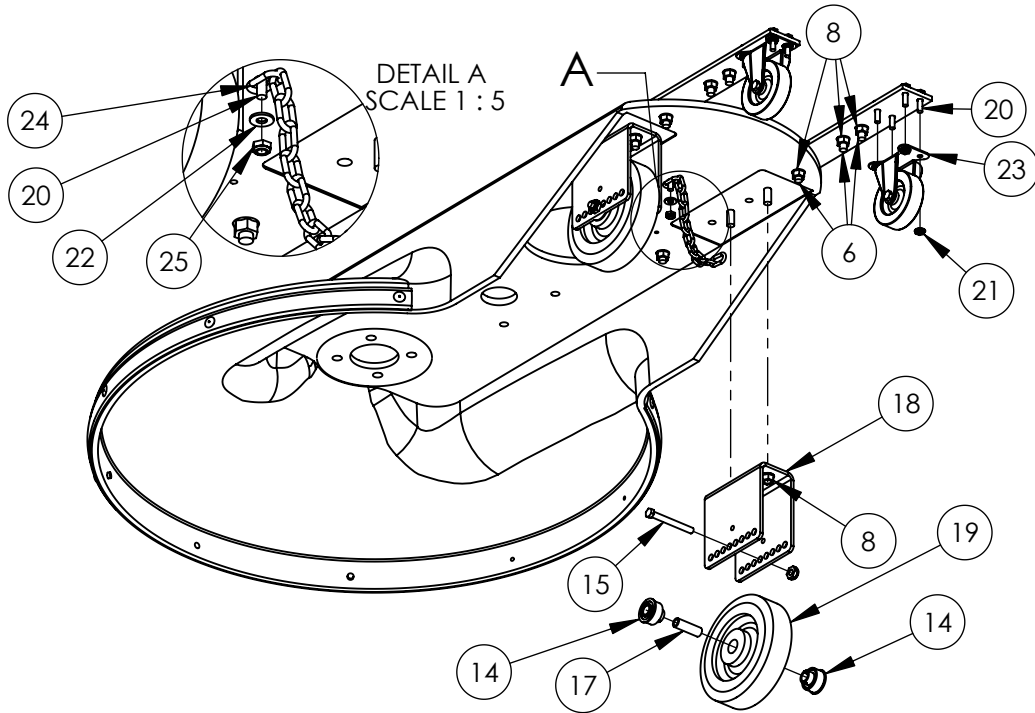


ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	E012654	1	27" DURACOAT MILLED DECK
2	E012626	1	ROTOMOLDED SHROUD XT27G3
3	E012633	3	LATCH, RUBBER DRAW (PART 1 OF 2)
4	E012633	3	LATCH, RUBBER DRAW (PART 2 OF 2)
5	E012676	12	RIVET, LOAD SPREADING, 5/32"
6	E012219	8	SCREW, 1/4-20 x 1, PHMS, BLACK
7	E011834	11	WASHER, FLAT, 1/4
8	E012632	1	DOOR, REAR ACCESS
9	E012640	1	HINGE WELDMENT A
10	E012641	1	HINGE WELDMENT B
11	E012221	1	SLEEVE FOR LANYARD, ALUMINUM
12	E012215	1	SWITCH, SAFETY SHUTOFF
13	E011553	1	LANYARD 3/64 x 6"
14	E012242	1	NUT, FLANGED, 1/4-20
15	E011122	1	SCREW, 1/4-20 x .5, PHMS, SS
16	E011565	1	SPRING, HANDLE RETURN
17	E012638	1	HANDLE, MAIN XTG3
18	E010259	2	CAP, TUBING, BLACK, 1"
19	E012639	1	HANDLE, SAFETY SHUTOFF XTG3
20	E011504	4	WASHER, LOCK, 3/8
21	E011136	4	WASHER, FLAT, 3/8 SAE
22	E011051	4	BOLT, HEX, 1/4-20 x 1.25

XT3-27 DECK, FRAME, AND WHEELS

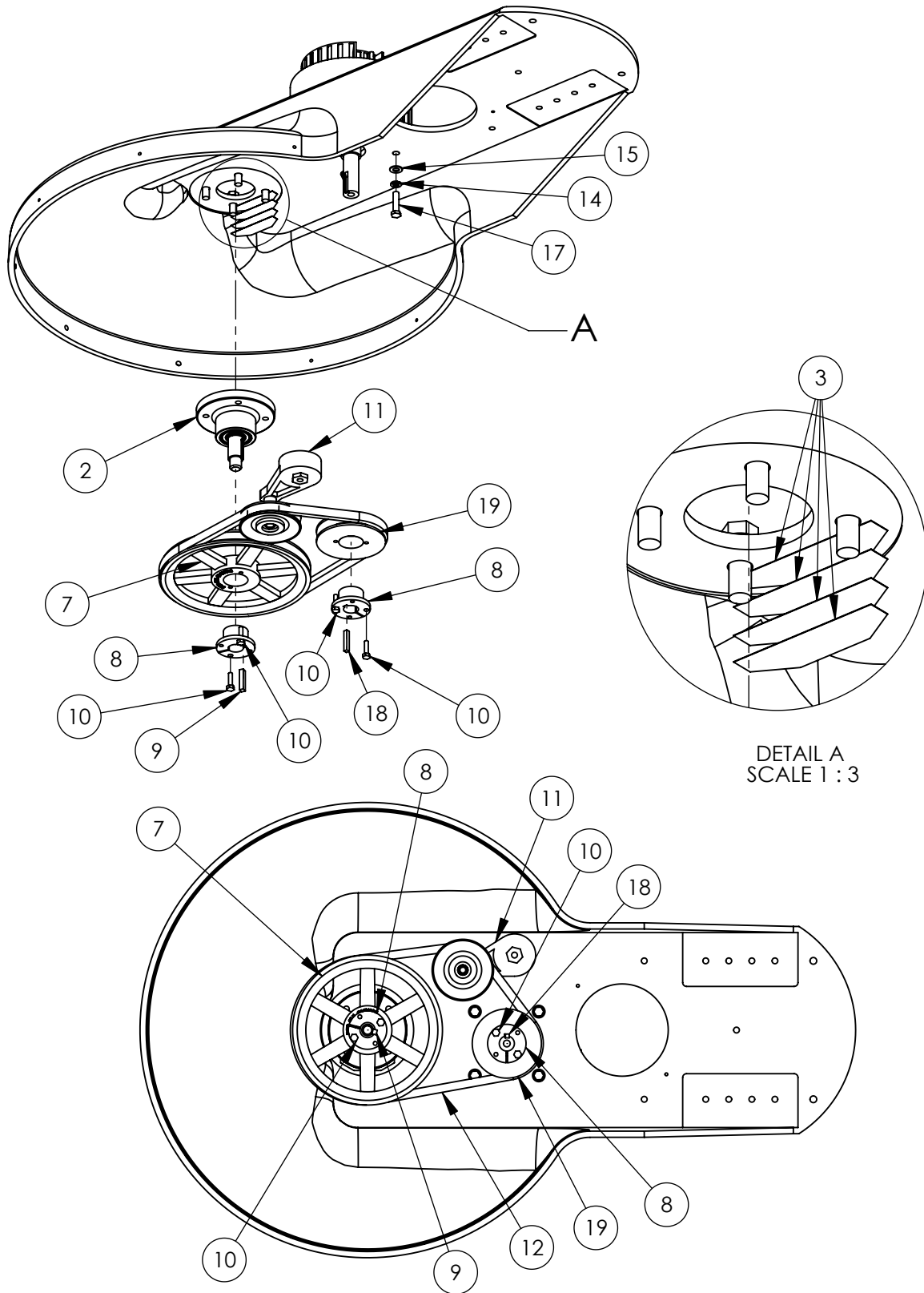


XT3-27 DECK, FRAME, AND WHEELS

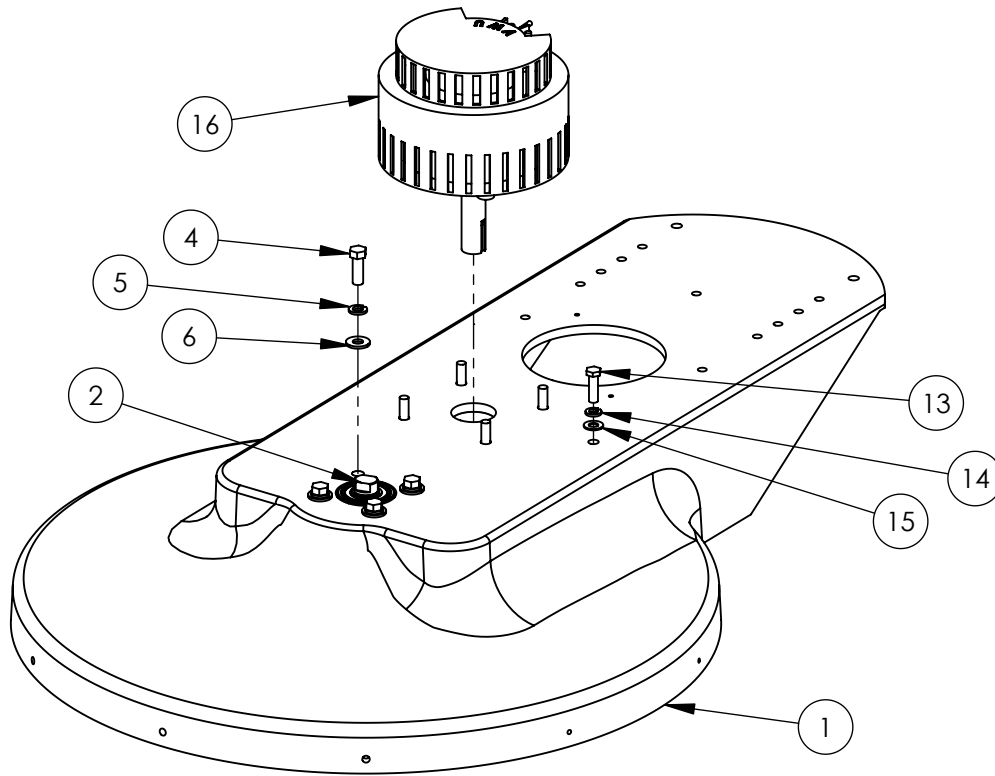


ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	E012654	1	27" DURACOAT MILLED DECK
2	E010705	1	BUMPER GUARD, RED
3	E011531	7	RIVET, T-RIVET, BSP T63
4	E012584	2	RIVET, 3/8" HAMMER RIVET
5	E012636	1	FULL MOUNT FOR XT27
6	E011051	6	BOLT, HEX, 1/4-20 x 1.25
7	E011136	12	WASHER, FLAT, 3/8 SAE
8	E011432	12	NUT, FLANGE, 3/8-16
9	E011424	6	BOLT, HH, 3/8-16 x 1.5
10	E012643	1	CHARGER CORD WRAP
11	E011833	2	SCREW, 1/4-20 x .75, PHMS, BLACK
12	E012204	2	TRIM, EDGE, SOLD BY THE FOOT
13	E012637	2	HANDLE TO BASE MOUNT FOR XT27
14	E012672	4	BEARING, SEALED BALL BEARING FOR WHEEL
15	E012675	2	BOLT, HH, 5/16 - 18 x 2.75
16	E011176	2	NUT, NYLOC, 5/16-18
17	*	2	BUSHING, WHEEL, 1.5 x .5 OD x .312 ID
18	E012644	2	ADJUSTABLE WHEEL BRACKET 4.062 AXLE
19	E012285	2	WHEEL, 6" x 1.5" WITH BUSHING
20	E012248	9	BOLT, HEX, 1/4-20 x 1
21	E012242	8	NUT, FLANGED, 1/4-20
22	E011133	10	WASHER, FLAT, 1/4
23	E012237	2	CASTER, 3" WITH GREY WHEEL
24	E012656	1	CHAIN, STAINLESS, STATIC, SOLD BY THE FOOT
25	E012242	1	NUT, NYLOCK, 1/4-20
26	E012661	1	PLATE, HOLE COVER
27	E010118	2	RIVET, AAP64

XT3-27 MOTOR, PULLEYS, AND BELT

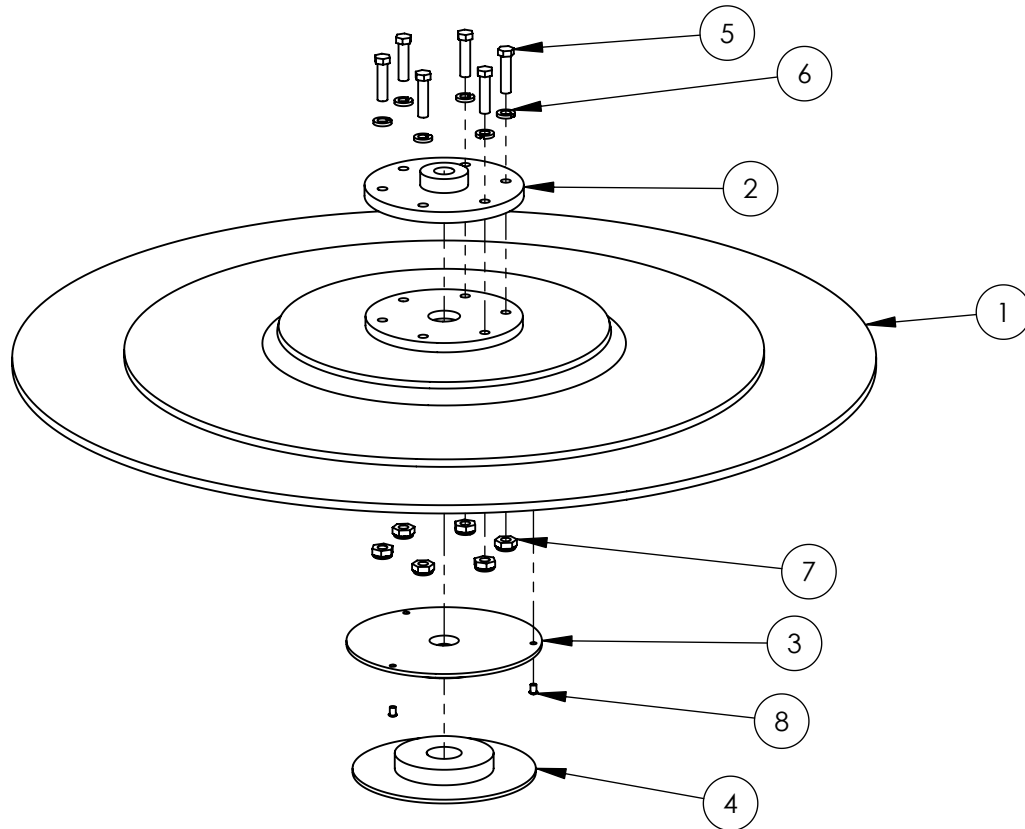


XT3-27 MOTOR, PULLEYS, AND BELT



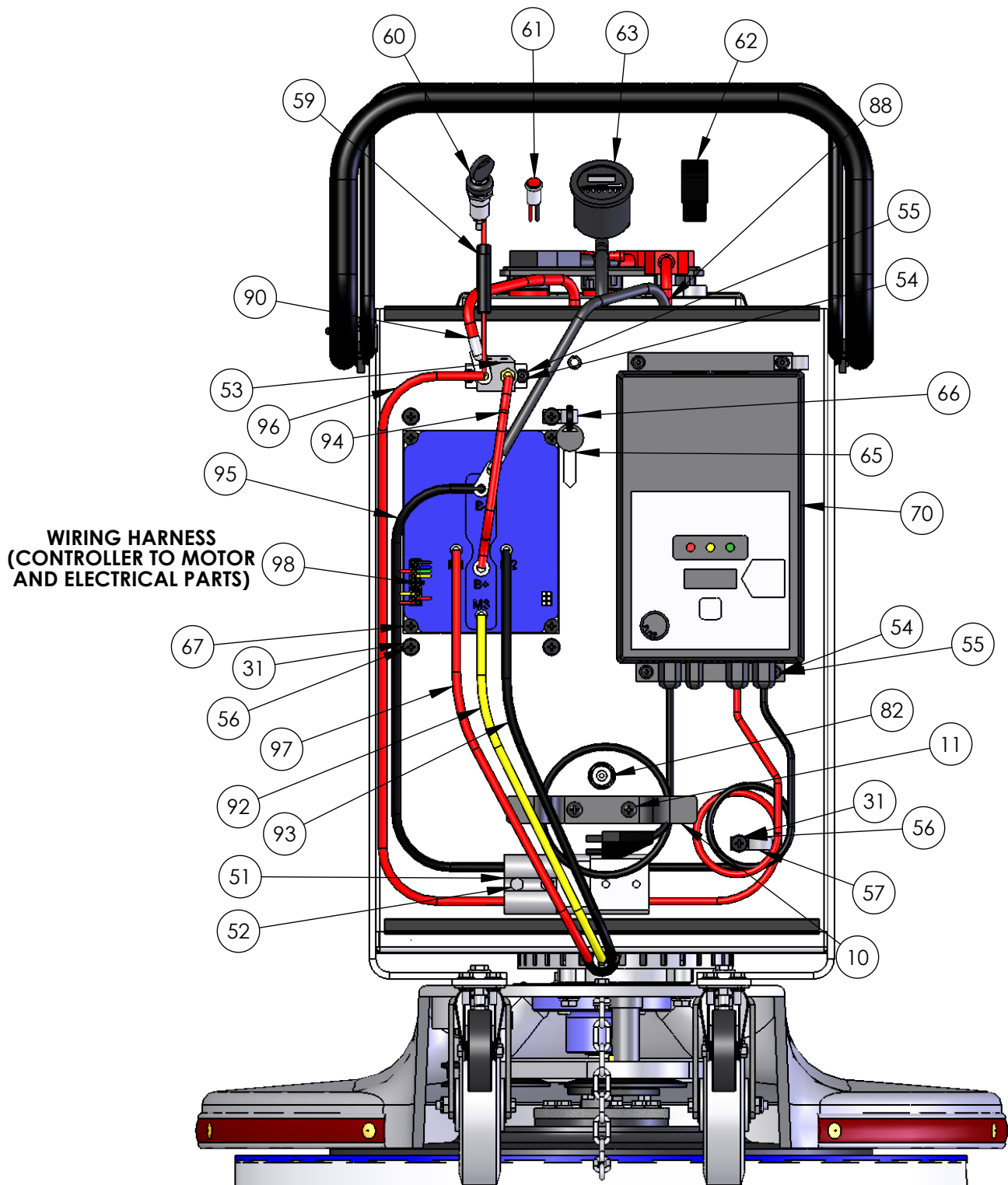
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	E012654	1	27" DURACOAT MILLED DECK
2	E012284	1	BEARING AND SHAFT ASSEMBLY
3	*	4	SHIM FOR FRONT END BEARING HOUSING
4	E010116	4	BOLT, 7/16-14 x 1.25
5	E012217	4	WASHER, LOCK, 7/16
6	E012218	4	WASHER, FLAT, 7/16 SAE
7	E010428	1	PULLEY, 10" OD, QT STYLE
8	E012400	2	PULLEY BUSHING, 25MM SHAFT, QT STYLE
9	E012459	1	KEYSTOCK, 7mm x 8mm x 30mm
10	E012248	4	BOLT, HEX, 1/4-20 x 1
11	E010459	1	BELT TENSIONER, SMALL FOR XT
12	E010107	1	BELT, BX40
13	E011051	1	BOLT, HEX, 1/4-20 x 1.25
14	E011504	5	WASHER, LOCK, 3/8
15	E011136	5	WASHER, FLAT, 3/8 SAE
16	E012197	1	MOTOR, 36 VDC, BRUSHLESS
17	E011424	4	BOLT, HH, 3/8-16 x 1.5
18	E011723	1	KEYSTOCK, 1/4 x 1/4
19	E012662	1	PULLEY, BK45QT

XT3-27 FLEX-LOC PAD DRIVER ASSEMBLY (COMPLETE ASSEMBLY - PE50040)



ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	E010252	1	FLEX-LOC 27
2	E010586	1	SHAFT TO PAD DRIVER COUPLING
3	E012517	1	CENTER-LOC 2 (COMES AS A SET 1 OF 2)
4	E012517	1	CENTER-LOC 2 (COMES AS A SET 2 OF 2)
5	E012247	6	BOLT, HEX, 5/16-18 x 1.25
6	E011505	6	WASHER, LOCK, 5/16
7	E011176	6	NUT, NYLOC, 5/16-18
8	E010118	3	RIVET, AAP64

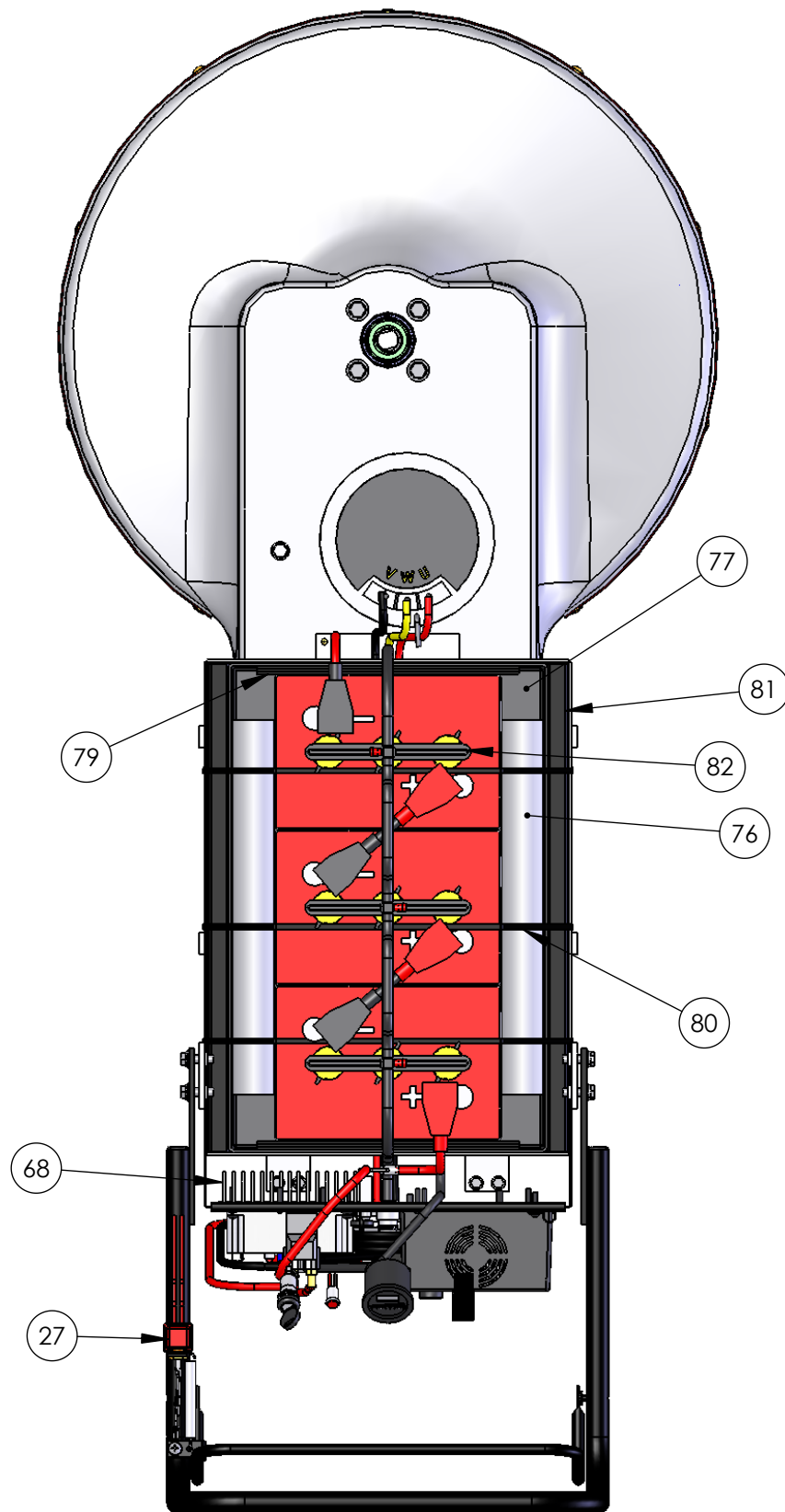
XT3-27 ELECTRICAL



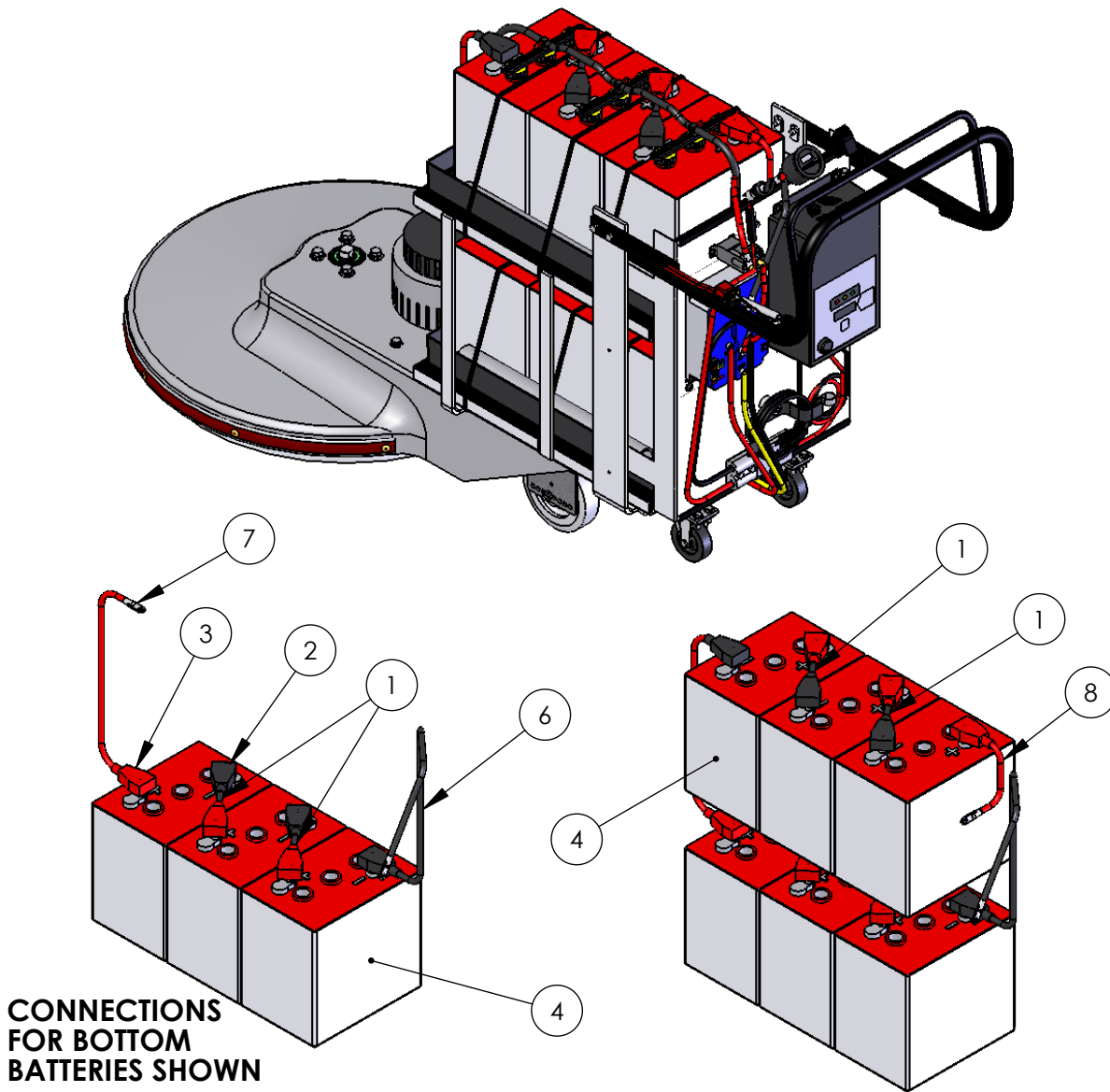
XT3-27 ELECTRICAL

ITEM NO.	PART NO.	QTY.	DESCRIPTION
10	E012643	1	CHARGER CORD WRAP
11	E011833	2	SCREW, 1/4-20 x .75, PHMS, BLACK
31	E011834	9	WASHER, FLAT, 1/4
51	E010878	1	ELECTRICAL PLUG, SB-175, GREY, 36 VOLT
52	E011623	2	BOLT, HH, 1/4-20 x 1.25
53	E012592	1	SOLENOID, 36V, CURTIS-ALRIGHT
54	E012219	6	SCREW, 10-24 x 1, PHMS, BLACK
55	E011834	6	WASHER, #10, SAE, BLACK
56	E012219	9	SCREW, 1/4-20 x 1, PHMS, BLACK
57	E011353	1	TUBE CLIP, .75 COV-1309
58	E011106	1	FUSE, 10 AMP, AGC, 1.25" LONG
59	E011835	1	FUSE HOLDER, FOR 1.25" AGC FUSE
60	E012629	1	KEYSWITCH, HEAVY DUTY WITH 2 KEYS
61	E012646	1	LAMP, LED, 36V
62	E011529	1	SWITCH, ROCKER, DPST
63	E012630	1	BDI (BATTERY DISCHARGE INDICATOR AND HOUR METER)
64	E010708	1	CABLE TIE, BLACK, 7.5"
65	*	1	SPARE KEY
66	E010137	2	TUBE CLIP, .5, COV-0909
67	E012199	1	MOTOR CONTROLLER
68	E012631	1	HEAT SINK
69	E011528	1	CIRCUIT BREAKER, 70 AMP
70	E012628	1	CHARGER, ON-BOARD, SPE WITH CORDS
73	E012568	4	WIRE, BATTERY CABLE, 4 GA, RED, 7.75"
74	E012542	6	TERMINAL PROTECTOR, STRAIGHT, BLACK
75	E012543	6	TERMINAL PROTECTOR, STRAIGHT, RED
76	E012674	4	SPACER, BATTERY END
77	E012624	2	BATTERY TRAY, PLASTIC, 3 BATTERIES
78	E011563	6	BATTERY, 6 VOLT, 225 AMP HOUR
79	E012660	12	SHIM, PLASTIC, 12 x 1.5 x .125
80	E012561	12	CABLE TIE, BLACK, AF529
81	E012642	2	BATTERY TRAY STEEL
82	E012613	1	WATERING SYSTEM, FOR NEW STYLE 6 VOLT BATTERY
88	E012562	1	WIRE, BATTERY CABLE, 4 GA, BLACK, 36"
89	E012263	1	WIRE, BATTERY CABLE, 4 GA, 20"
90	E010133	1	WIRE, BATTERY CABLE, 4 GA, RED, 11"
91	E012568	1	WIRE, BATTERY CABLE, RED, 4 GA, 7.75"
92	E012670	1	WIRE, BATTERY CABLE, 4 GA, RED WITH YELLOW ENDS, 49"
93	E011142	1	WIRE, BATTERY CABLE, 4 GA, BLACK, 52"
94	E011837	1	WIRE, BATTERY CABLE, 4 GA, RED, 7"
95	E012565	1	WIRE, BATTERY CABLE, 4 GA, BLACK, CHARGING, 24"
96	E012564	1	WIRE, BATTERY CABLE, 4 GA, RED, CHARGING, 28"
97	E011141	1	WIRE, BATTERY CABLE, 4 GA, RED, 52"
98	E012655	1	WIRING HARNESS FOR XT3

XT3-27 ELECTRICAL



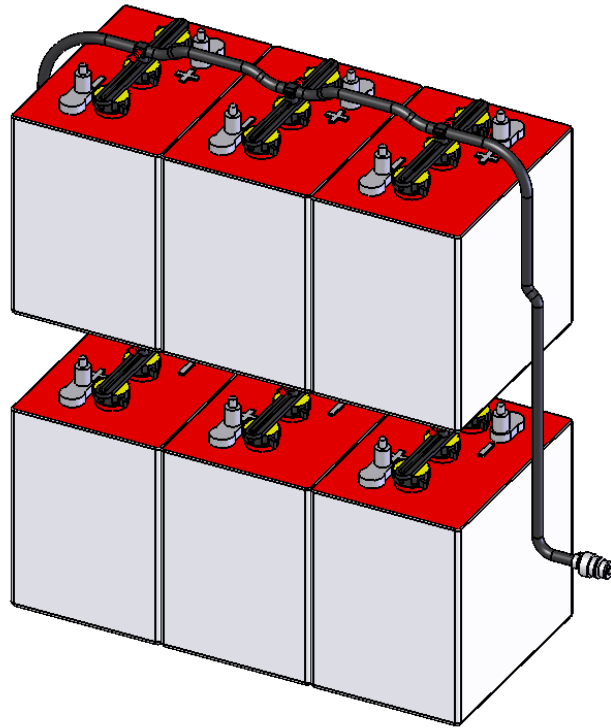
XT3-27 BATTERY CONNECTIONS



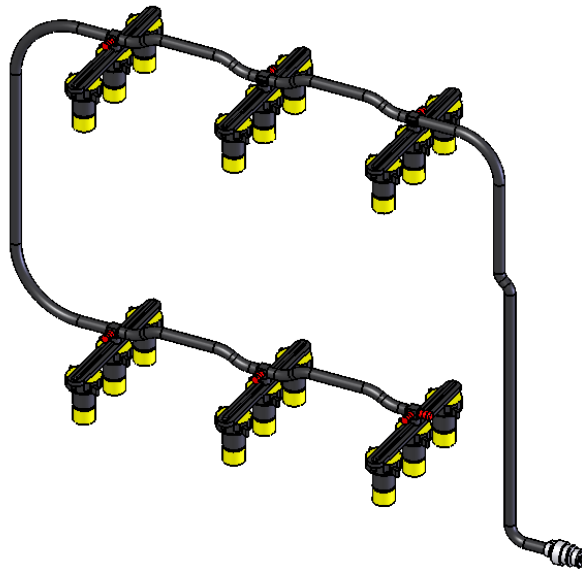
**RED TERMINAL PROTECTORS ARE ON POSITIVE TERMINALS
BLACK TERMINAL PROTECTORS ARE ON NEGATIVE TERMINALS**

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	E012568	4	WIRE, BATTERY CABLE, 4 GA, RED, 7.75"
2	E012542	6	TERMINAL PROTECTOR, STRAIGHT, BLACK
3	E012543	6	TERMINAL PROTECTOR, STRAIGHT, RED
4	E011563	6	BATTERY, 6 VOLT, 225 AMP HOUR
5	E012613	1	WATERING SYSTEM, FOR NEW STYLE 6 VOLT BATTERY
6	E012562	1	WIRE, BATTERY CABLE, 4 GA, BLACK, 36"
7	E012263	1	WIRE, BATTERY CABLE, 4 GA, 20"
8	E012568	1	WIRE, BATTERY CABLE, RED, 4 GA, 7.75"

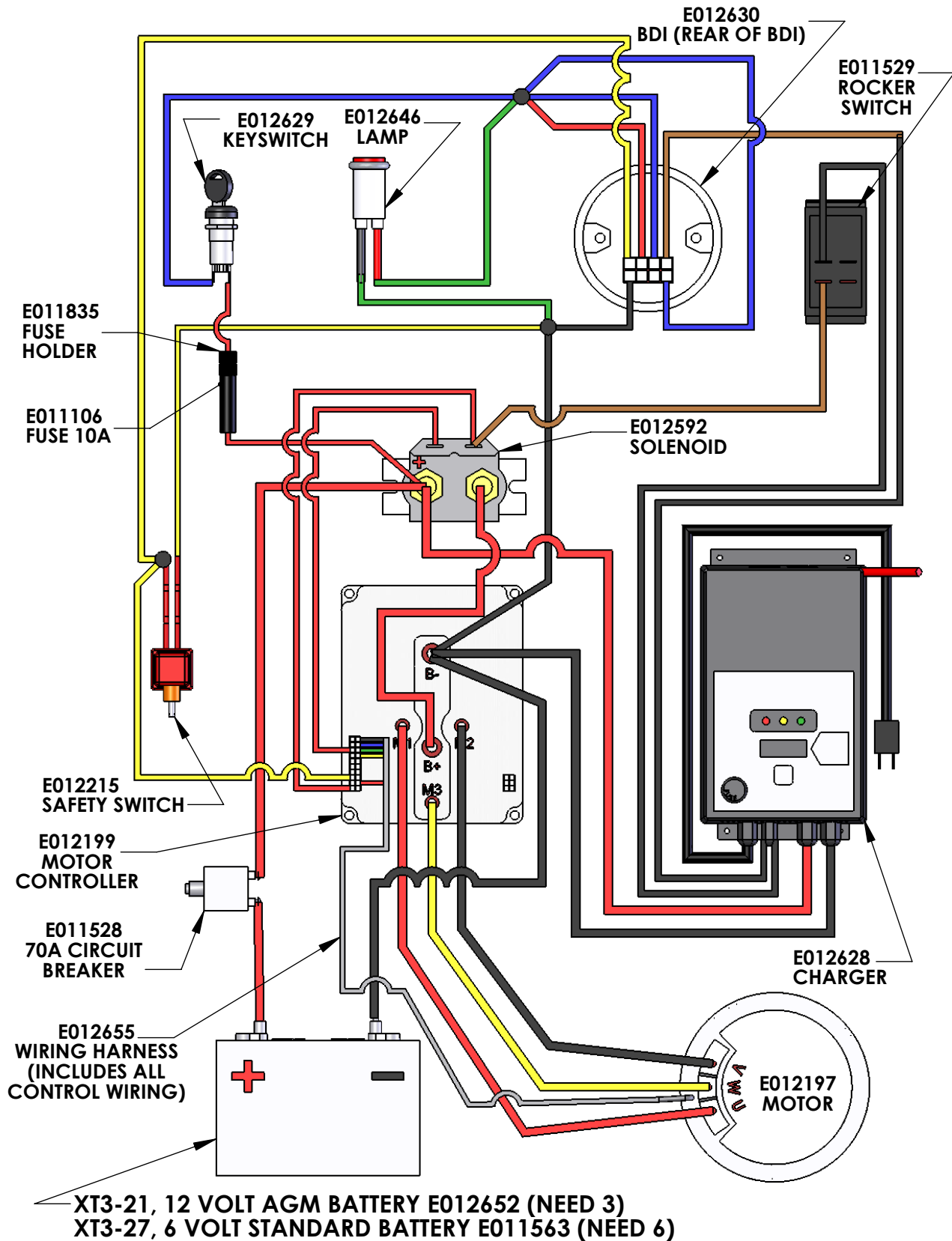
XT3-27 WATERING WITH STANDARD BATTERIES



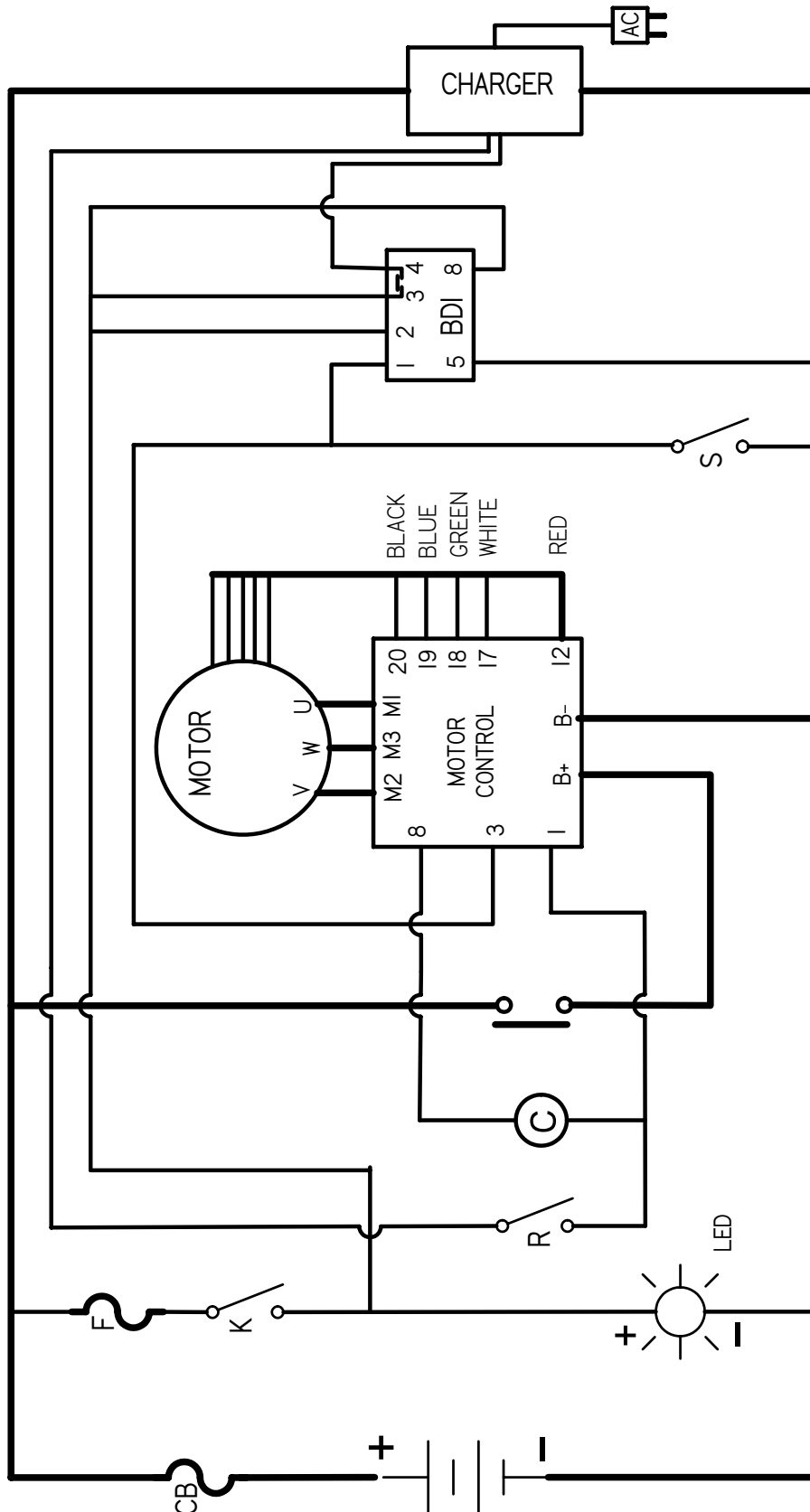
PRO-FILL WATERING SYSTEM - PART # E012613



ELECTRICAL LAYOUT



WIRING LADDER DIAGRAM



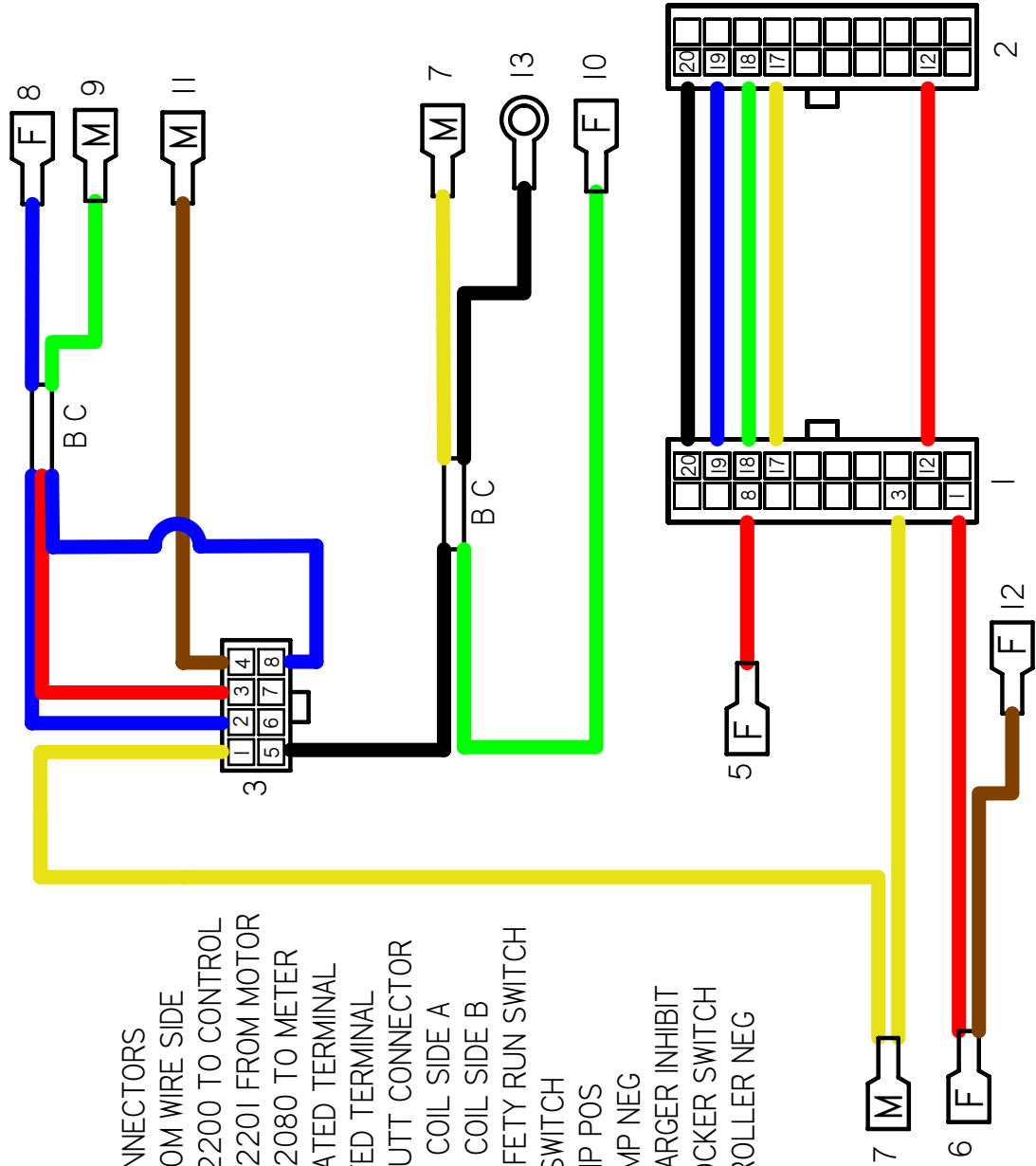
KEY

- K - KEY SWITCH
- R - ROCKER SWITCH
- S - SAFETY RUN SWITCH
- CB - CIRCUIT BREAKER
- F - FUSE

ALSO SEE OTHER PAGES FOR:

- ELECTRICAL AND BATTERY VIEW
- ELECTRICAL LAYOUT
- WIRING HARNESS
- BATTERY DISCHARGE AND HOUR METER INFORMATION

WIRING HARNESS



NOTE - MOLEX CONNECTORS
VIEWED FROM WIRE SIDE

1 - MOLEX 39-01-2200 TO CONTROL
2 - MOLEX 39-01-2201 FROM MOTOR
3 - MOLEX 39-01-2080 TO METER
F - FEMALE INSULATED TERMINAL
M - MALE INSULATED TERMINAL
BC - INSULATED BUTT CONNECTOR
RED 5 - SOLENOID COIL SIDE A
RED 6 - SOLENOID COIL SIDE B
YELLOW 7 - TO SAFETY RUN SWITCH
BLUE 8 - TO KEY SWITCH
GREEN 9 - TO LAMP POS
GREEN 10 - TO LAMP NEG
BROWN 11 - TO CHARGER INHIBIT
BROWN 12 - TO ROCKER SWITCH
BLACK 13 - CONTROLLER NEG

TROUBLE-SHOOTING

PROBLEM	CAUSE	POSSIBLE SOLUTION
No sign of power. No on lamp, no BDI readout.	(a) Bad connection (b) Bad connection to BDI (c) On-board charger is plugged in (d) Batteries dead (e) Charger plugged into outlet	(a) Check all connections. (b) Make sure connector is fully pushed into BDI. (c) Disconnect charger from wall outlet. (d) Recharge or replace batteries as needed. (e) Unplug charger from 110v outlet. Charger has an "inhibit" circuit that prevents machine from running if charger is plugged in.
Powers on with key switch, but solenoid does not "click" with rocker switch.	Bad connection	Check all connections.
Powers on, solenoid "clicks", but does not run	(a) Safety run switch problem. Not pulling plunger enough to activate. (b) Safety run switch wire connectors may be loose	(a) Cable may have slipped and sleeve needs to be re-crimped or replaced. (b) Push in connectors
Pad "bogs down"	Too much pad pressure	Decrease pressure using directions on "Balancing Instructions" page
Machine will not set upright with cover on	Too little pad pressure	Increase pad pressure using directions on "Balancing Instructions" page
Low runtime	(a) Improper charge (b) Old batteries or defective cell in battery (c) Too much pad pressure. (d) BDI set to too high a voltage	(a) Make sure that batteries get a full charge after each use. (b) Replace batteries. Best to replace as a set. (c) Balance machine. See "Balancing Instructions" page. (d) See BDI instruction page on how to set to a value of 4 for optimal run time and battery life
Machine vibrates	(a) Pad not centered (b) Pad is torn or worn excessively	(a) Remove pad and re-center the pad (b) Replace pad
Noise coming from underside of deck	Belt is loose and causing belt tensioner to "chatter".	Tighten belt. See page with "Belt tightening instructions".
Machine hard to push	(a) Worn pad (b) Worn wheel bearings (c) Pad out of alignment	(a) Replace pad. (b) Replace bearings or replace wheels. (c) See solution to next problem "Machine pulls left".
Machine pulls left	(a) Worn pad (b) Wrong pad (c) Right side of pad needs a little more contact than the left so "pad assist" can help pull machine forward .	(a) Replace pad (b) Replace pad with pad approved use with XT burnisher. (c) Add a small shim (.010 thick) between bearing housing and deck on the right side. This will "push" right side down toward floor. (If there are too many shims, then left side of pad will not contact properly).
Uneven floor buffing (right side of pad polishes and left side does not)	Right side of pad contacting too much, therefore left side is not contacting enough.	The reverse of the previous procedure. Remove one of the small shims (.010 thick) between bearing housing and deck on the right side



Betco Warranty Express Program™

Revised November 1, 2006

10 Year Coverage

Subject to the conditions stated below, Betco Corporation warrants parts and labor on rotationally molded polyethylene tanks/housings and injection molded vacuum head assemblies to be free from defects in materials and workmanship for a period of ten years to the original purchaser.

3 Year Coverage

Subject to the conditions stated below, Betco Corporation warrants parts and labor on all other Betco components to be free from defects in materials and workmanship for a period of three years to the original purchaser.

1 Year Coverage

Subject to the conditions stated below, Betco Corporation offers a limited warranty on parts and labor on the following equipment, parts and accessories to be free from defects in material and workmanship for a period of one year to the original purchaser.

- DM Series Vacuums:
#85506-00, #85507-00
- Bac Pac Lite Vacuum:
#85903-00
- FiberPRO® Floor Dryer:
#85507-00
- WORKMAN™ Series Vacuums:
#85024-00, #85025-00,
#85026-00, #85027-00
- CV100T Vacuum:
#85023-00
- All Tools and Accessories
- All Battery Chargers
- All Batteries are pro-rated for 1 year.

Allowable Travel Time Warranty Reimbursement:

Eligible equipment: All battery and propane powered equipment products.

Warranty period: 90 days from date of sale to the original purchaser. A maximum 60 mile round trip at 44 cents per mile will be allowed for warranty consideration.

Propane Machine Warranty:

Honda engines are warranted by Honda for a period of 2 years against manufacturer defect. Kawasaki engines are warranted by Kawasaki for a period of 2 years against manufacturer defect. All other components (except wear items)* are warranted by Betco Corporation for a period of 3 years.

***Wear items exempt from warranty consideration include but may not be limited to: power cords, transport wheels, vacuum bags, belts, squeegee blades, pad drivers, clutch plates, handle grips, filters, screens, throttle cables, brushes and carbon brushes.**

Subject to the conditions and exceptions stated in this warranty, Betco warrants the Betco products to be free from defects in material and workmanship, under normal use and service, for the periods listed under the warranty policy to the original purchaser. At any time during the warranty period, Betco will furnish replacement parts for the Betco products to the original purchaser. Such parts will be furnished and charged including transportation costs, to the original owner through any Betco authorized Service Distributor. If the original part is returned within the warranty policy period from date of delivery for inspection by Betco and is found to be defective, the owner will be credited for the cost of replacement parts plus shipping and handling. Replacement parts that have become defective through wear or abuse are not included in this warranty.

This warranty does not apply to damage or defect caused by accident, misuse, negligence, fire or to any Betco product which has been serviced or repaired by other than an authorized Betco Service Distributor or Betco factory personnel. This warranty is void if products are used for any purpose other than that which was intended. There are no other warranties expressed or implied. In no event shall Betco be liable for incidental or consequential damages or any damage to person or property. (Please note some states do not allow the exclusion or limitations for incidental and consequential damages.)