

## XT II™ 21

Chemicals
Equipment
Programs
Process



## 21" High Performance Battery Burnisher • Exclusive Computer Controlled Technology

The next generation of battery burnisher! The XT II<sup>TM</sup> utilizes new state-of-the-art technologies to outperform traditional battery <u>and</u> propane burnishers. A precision onboard computer controller is synchronized with a powerful maintenance free motor to deliver the high level burnish response today's high speed floor finishes demand. Featuring easy-to-use controls and a "smart" watering system, the XT II<sup>TM</sup> is user friendly and increases productivity.

## **Applications**

- Dry burnishing
- · Restorative burnishing

#### **Features**

- Performance of a propane (Without the safety concerns and high maintenance costs)
- Onboard computer controller (Provides constant speed and torque)
- Maintenance free motor (No carbon brushes to replace)
- Smart watering system (For safer and easier battery maintenance)
- Easy-to-use controls (Requires less training; increases productivity)



Easy-to-use controls

#### **Warranty**

3 Year\*

## **Specifications**

Burnish path	21"
	21"
	Maintenance free, rated at 5 hp
	Onboard,
provid	des constant speed and torque
Pad pressure	60 lbs.
Pad speed	7,074 fpm,
mea	asured at outer diameter of pad
RPM	Approx. 1500
Pad driver	Exclusive Flex Lock III
Pad center lock	Threaded, for easy installation
	71 dB
Volts	36-volt system
	(3) 12-volt
	Smart watering system
	2 - 2.5 hours
	Included
	Yes
	Yes
	Yes
	Yes, red
	54"
	22"
	42"
	330 lbs.
	.(2) 6" heavy duty non-marking
	.(2) 3" heavy duty non-marking
	24,000 sq. ft./hour

#### Available In

XT II™ 21 – 21" Battery Burnisher: Item #E12346-00

Literature Item #E12346-92

8.05

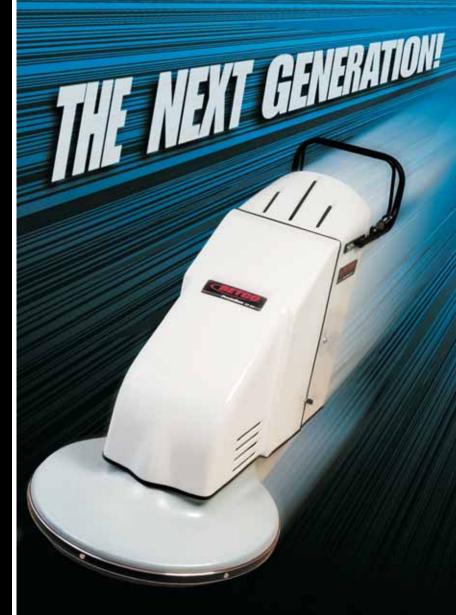


<sup>\*</sup>Please refer to Betco Equipment Price/Product Guide for complete equipment warranty information.



Fast, Powerful Battery Burnisher.

## Re-Charge Your Floor Maintenance!







- Outperforms traditional battery burnishers.
- Safer, quieter and less costly than propane burnishers.
- Perfect for any facility.



## High Performance Battery Burnishers • Computer Controlled Technology

The next generation of high speed burnishers! Utilizing new state-of-the-art technologies, the XT II™ battery burnishers outperform traditional battery and propane burnishers every time. A precision onboard computer controller is synchronized with a powerful maintenance-free motor to deliver the high level burnish response demanded by today's high speed floor finishes.



Low Profile Design



User Friendly Controls

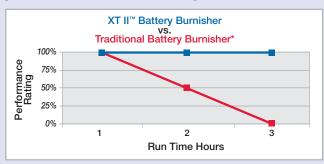


Smart Watering System

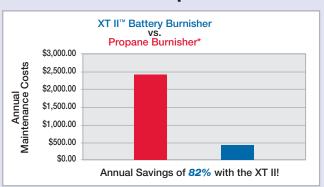
#### **Features and Benefits**

- Computer controller delivers consistent performance.
- Safer and more cost effective than propane burnishers.
- High productivity results up to 36,000 sq. ft./hour.
- User-friendly controls. Easy to train and operate.
- Low 71 dB noise level.
- Maintenance-free high power motor and smart watering system for batteries.
- Low profile design allows burnishing in tight areas.
- Available in 21" and 27" models.

## **Outperforms Traditional Battery Burnishers**



## **More Cost Effective than Propane Burnishers**



<sup>\*</sup> This information is presented based on our research which we believe to be correct and objective. No guarantee is expressed or implied.





## XT II™ 21 – 21" Battery Burnisher

Item #E12346-00

Operator's Manual Parts Schematic



Chemicals

Equipment

Programs

Process





## THREE YEAR LIMITED WARRANTY

PowerBuff, Inc. warrants new machines to be free from defects in material and workmanship under normal use and service to the original purchaser. This warranty period is subject to the conditions stated below.

#### BATTERY AND BATTERY CHARGER WARRANTIES

Battery warranty is for one year on a pro rated basis. Battery warranty is void if the batteries are not maintained at the proper level. Battery charger is warranted for one year.

#### **EXCLUSIONS**

This warranty does not cover normal wear and maintenance items including, but not limited to: belts, gaskets, wheels, casters, and routine adjustments. This warranty does not cover damage or failure which is the result of misuse, negligent operation, handling or repair, or which is the result of modification or repair by any person other than an authorized PowerBuff, Inc. service representative.

## LIMITATIONS

STATED WARRANTIES ARE IN LIEW OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. PowerBuff's liability under this warranty is limited to repair of the product and/or replacement parts and is given to purchaser in lieu of all other remedies, including incidental and consequential damages.

#### WARRANTY DETAIL AND CLAIM PROCEDURES

PowreBuff, Inc. warrants to buyer that for the applicable shipment, such material will be free from defects in material and workmanship or failure to meet specifications, (a defect) appears in the material; then seller will, at it's option, either repair or replace the defective goods without charge or credit or refund the purchase price of the defective material, provided that:

- The defect appears within the applicable warranty period.
- Buyer notifies seller in writing of the claimed defect promptly after buyer knows or reasonable should know of the claimed defect.
- 3) Seller's examination if the material discloses that the claimed defect actually exists. Buyer shall follow seller's instruction regarding return of defective material, and no material will be accepted for repair, replacement, credit, or refund without the written authorization of and in accordance with seller's instructions. In the case of any such return, buyer shall bear the risk if in-transit loss or damage; and shall prepay all transportation charges to seller. Repaired or replacement material will be shipped prepaid by seller, and buyer shall bear the risk of in-transit loss or damage. The replaced material shall become the seller's property.

PowerBuff, Inc. \* Phone 800-523-2833 \* Stoneville, NC

## XT-21 GENERATION II

## **Specifications**

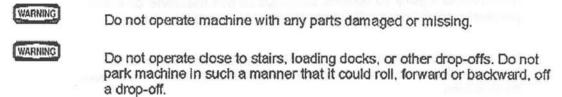
ITEM	Description / information	
Power Supply	36 Volt (3 - 12Volt Batteries)	
Charger	36 Volt - 20 Amp	
Motor	High Horsepower, - maintenance free	
Controller	Computer controlled	
Run Time	2 - 2.5 Hours at constant speed & torque	
Productivity	24,000 Square feet/hour	
Wheels	Colson 6" Wheels - non marking	
Caster	Duel 3" casters	
Smart Watering System	Quick-fill, On-board Watering System	
Pad Driver	Powerbuff Exclusive "Flex Loc" 21"	
Pad speed	7,074 FPM Constant	
Weight	330 lbs	
Dimensions	54" Length	
	22" Width	
	42" Height	
Warranty	Three Year Limited	

## SAFETY INSTRUCTIONS

Hazard Leve	Explanation or Description of Hazard Level	
	Failure to follow safety instructions labeled could result in severe injury or death to the machine operator or others.	
WARNING	Failure to follow safety instructions labeled could result in injury to the machine operator or others. Also, machine or property damage could occur.	
CAUTION	Failure to follow safety instructions labeled CAUTEN could result in damage to the machine or damage to other property.	
(4803°)	This manual contains important information about your machine. Read and understand all instructions before operating the machine. Failure to read and follow the instructions could result in injury to the person operating the machine or injury to others. Damage to the machine or other property could occur if instructions are not followed.	
CHARLES .	Do not operate this machine around any solvents, thinners, or other flammable liquids or materials. Electrical sparks can cause a fire or even an explosion.	
STAGES	Do not smoke around the machine. Also, keep all sparks and flames away from the batteries. The batteries generate gases that can cause an explosion.	
<b>ENGIN</b>	Special care needs to be used when working on or near the batteries. Wear eye protection. Do not lay tools on batteries, as they may short out battery terminals. Do not wear metal jewelry, as it may short out battery terminals.	
0.000	Charging batteries can be dangerous. Be aware that the battery charger may have a relatively low voltage output, but the current output is very high and therefore dangerous. Do not operate the charger if any parts of the charger or charger cords are damaged. Do not stand on a wet floor when connecting or disconnecting charger to the power outlet or to the machine.	

Safety Instructions are continued on the next page

SA	SAFETY INSTRUCTIONS (continued from previous page)		
	Battery acid is dangerous. Wear eye and face protection, hand protection, and body protection when working on and around batteries. If you get acid on your skin, wash off immediately. If you get acid on your clothing, remove clothing and wash any skin that was in contact with the clothing. Baking soda mixed with water will help to neutralize the acid on your skin.		
	The machine is very heavy, so be very careful when loading, transporting, and unloading the machine		
WARNING			
	Keep all body parts, clothing, and objects away from moving parts.		
WARNING	Operate machine from the rear, not from the side.		



Do not operate machine with charger plugged in.

Disconnect a wire to the batteries before working on the machine.

WARNING

WARNING

WARNING

WARNING

CAUTION

Authorized personnel must perform maintenance and repairs. Do not alter or modify the machine, unless authorized by the manufacturer,

Do not expose the electrical components to water or excessive moisture.

Always put caution signs around the areas that are being cleaned.

Do not use machine as a "ladder". Do not use machine as a "forklift" to push stuff around. Do not ride or let anyone ride on the machine.

Your machine warranty may be voided if parts other than PowerBuff parts are used,

## XT21 GENERATION II

1: to solenoid A (+): Blue

3: to safety switch: Green

8: to solenoid B ( - ): Yellow

12: (+) Red

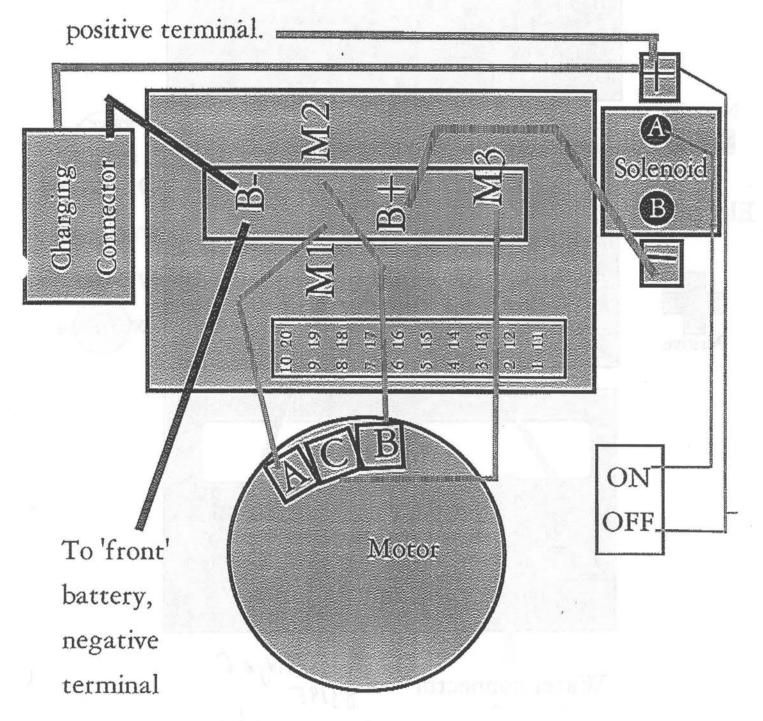
MOTOR Hall Sensor Cable 17: white

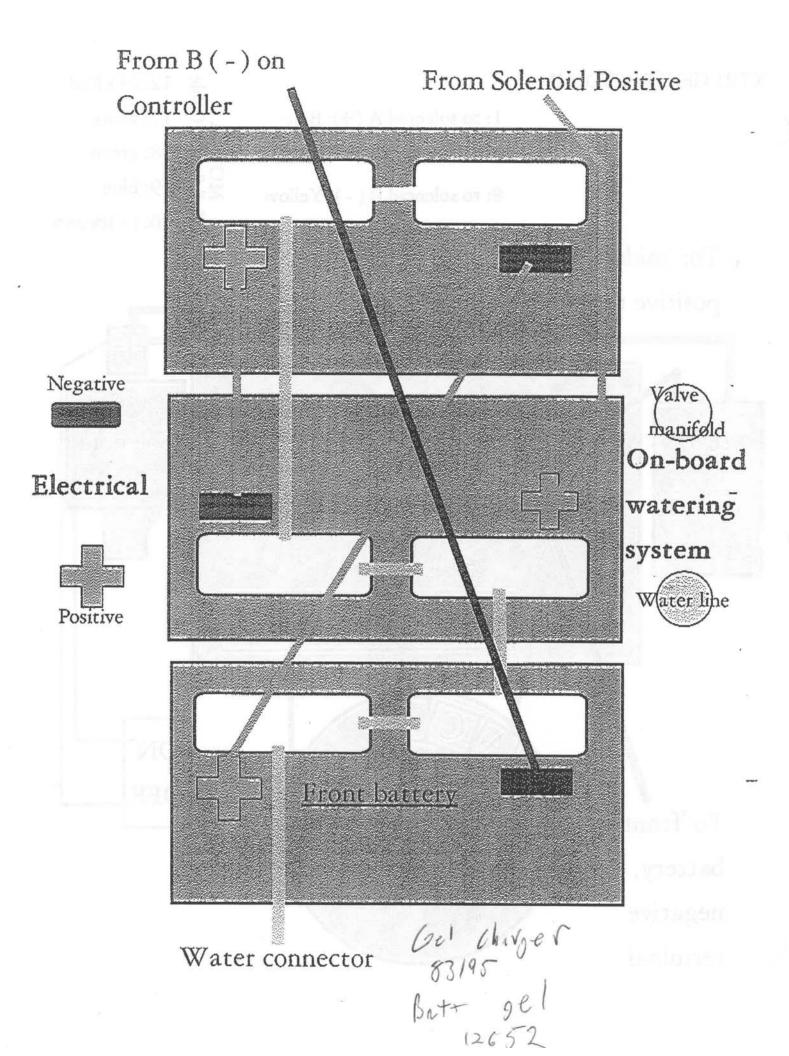
18: green

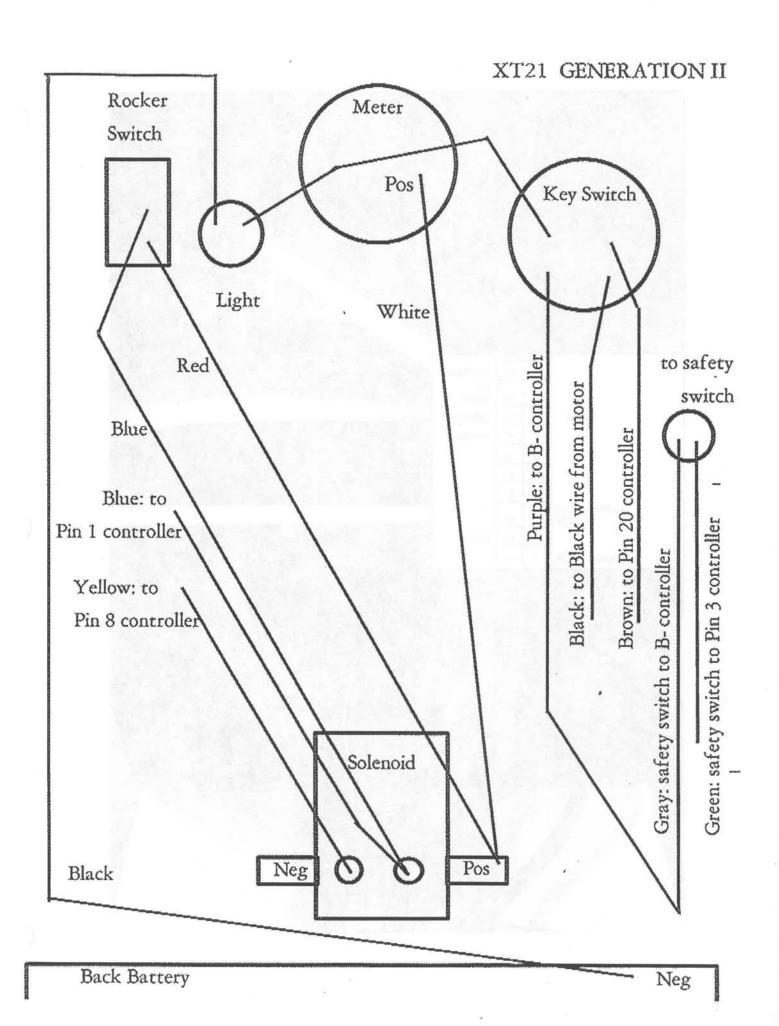
19: blue

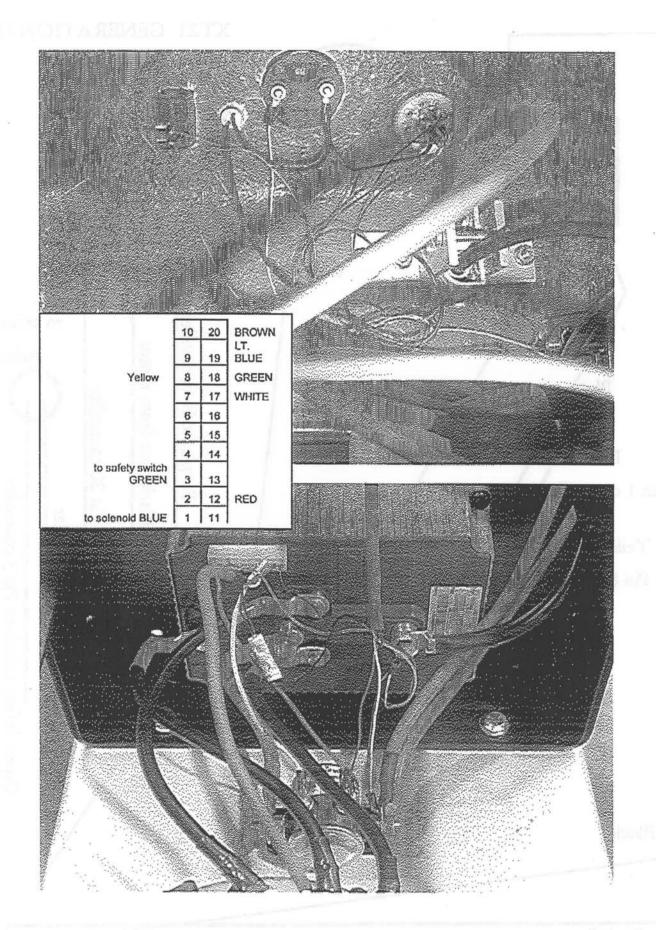
20: ( - )Brown

To: 'middle' battery,



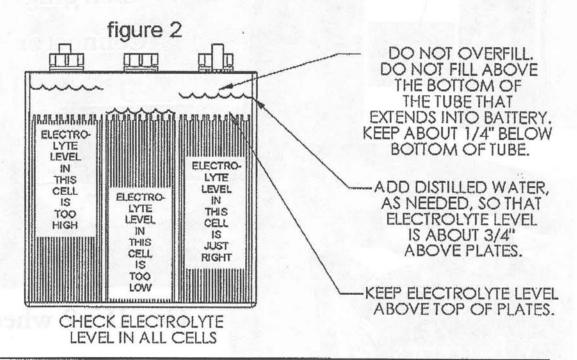






## BATTERY MAINTENANCE

- To receive the longest life from the batteries, charge them when they have between 25% and 50% of a full charge.
- Do not allow batteries to remain in a discharged state for very long, as this shortens the total battery life.
- Be aware that a discharged battery will freeze easily.
- Check the electrolyte level weekly. Top off with distilled water as shown in figure 2.
   Do not overfill. Make sure that all plugs are tight.
- Make sure battery connections are tight and free from corrosion. A baking soda and water solution and a wire brush are helpful when cleaning battery connections.
   Keep caps on when cleaning batteries, so that electrolyte is not contaminated.





!!! BATTERIES ARE DANGEROUS!!!
READ THE SAFETY INSTRUCTIONS
IN THE FRONT OF THIS MANUAL
FOR SPECIFIC WARNINGS

## IF YOU WOULD LIKE TO LEARN MORE ABOUT BATTERIES

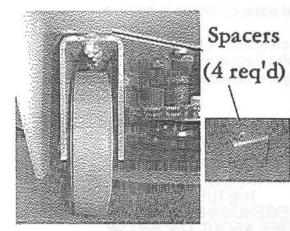
THERE IS A VERY INFORMATIVE PUBLICATION AVAILABLE. IT COVERS SUBJECTS SUCH AS BATTERY TERMS AND HOW A BATTERY WORKS TO SPECIFIC GRAVITY TESTING WITH A HYDROMETER AND DIAGNOSIS OF BATTERY PROBLEMS.

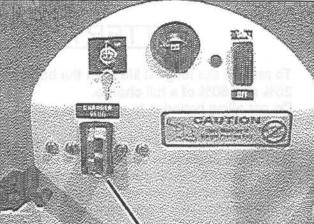
YOU CAN OBTAIN A COPY OF THE "BATTERY SERVICE MANUAL" FROM

BATTERY COUNCIL INTERNATIONAL 401 N. MICHIGAN AVENUE CHICAGO, IL 60611 PHONE 312-644-6610

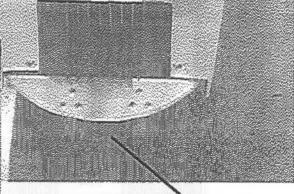
## XT21

GENERATION II





Charging Connector



Gen II - 2 wheels

12V Batteries (3 req'd)

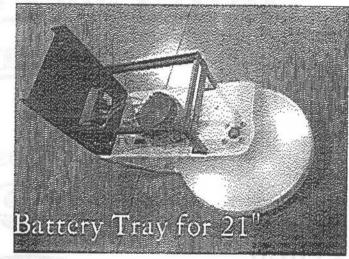
Watering hand-pump (bulb)

Bearing Housing

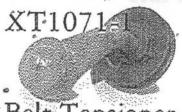
21" Deck

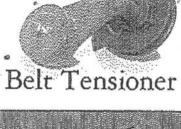
## Additional Information / views

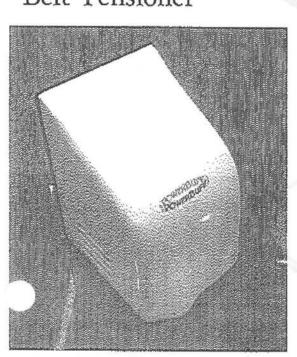


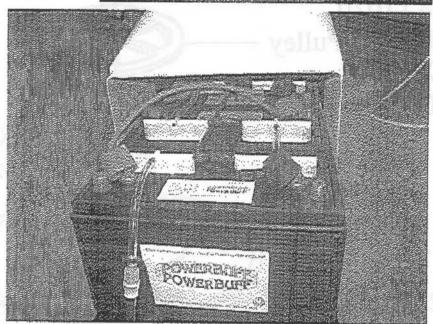


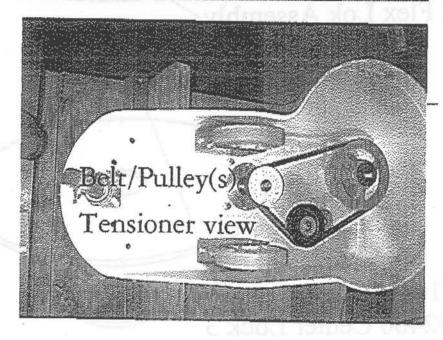




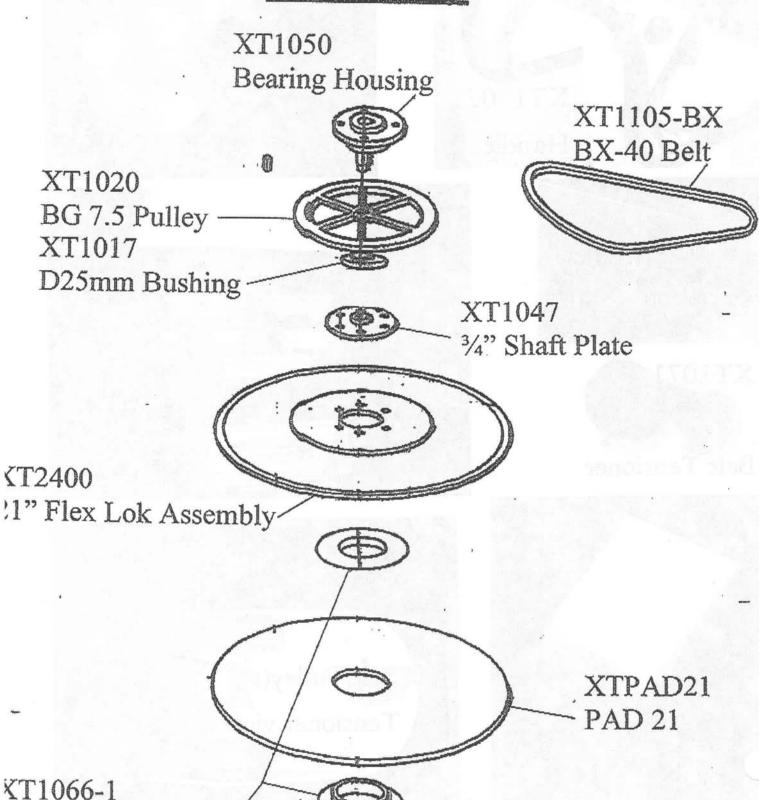








# Drive Pulley & Flex-Lok Assembly



‡792460 Center Lock 3

Part # Description	Component Quantity
E011281-21" DURACOAT DECK	Somponent Quantity
E012217-7/16 ZINC LOCK WASHER	J. 1002.1922 A. 2011 1 2011
E012218-7/16 SAE G8 FLAT WASHER	Section 1 months
E010459-SM. BELT TENSIONER/FS0111	
E011051-3/8-16X1.25 BOLT - HH	Telegratika kuting
E011504-3/8 LOCK WASHER	
E012401-BG 7.5 D PULLEY	The second second second
E012295-BC 35 1 PULLEY	all to our all all and
E010107-BX40 BELT	A THE TRACK THE ACT OF THE
E012365-ADJUSTABLE WHEEL BRACKET	
E012247-5/16-18 x 1 1/4 BOLT	
E011498-5/16 FLAT WASHER	10
E012285-6" WHEEL w/BUSHING	1
E012224-5/16 JAM NUTS	
E012225-5/16-18 X 2 1/2 UNC GR 8 ALLOY	TURBLE OF MARKET MARKET
E012197- AXIAL AIR GAP BRUSHLESS MOTOR	
E011136-3/8 SAE FLAT WASHER	O PLEASURABLE TRANSPORT
E012248-1/4-20x1 BOLT	
E012193- BATTERY TRAY W/HEAT SINK	
E011050-3/8-16X1.00 BOLT-HH	999991
E012250-18 GA. GREEN WIRE	
E012251-18 GA. YELLOW WIRE	The Company of the Company
E012210-MOLEX PIN (#35C5062)	renaphines var place
E012204-EDGE TRIM (#75001309)	Length Shell Shell The
E012199-CONTROLLER	
E012219-1/4 20x1 UNC GR 5 HHCS	
E012209-MOLEX (20) PIN CONNECTOR	THE WAY STATE OF
E012210- MOLEX PIN (#35C5062)	In an extension and a second
E011230-SOLENOID (36VOLT)	FERROND RACIONAL
E011651-16-14GA TERMINAL	
E010878-SB175A CONN.#4 GRAY DISCONNECT	700 at 13 4100 to 20017
E012254-FEMALE QUICK SLIDE #5068	1 S 160 (A) (C 2 C ME 12
E012255- FEMALE QUICK SLIDE #5067	10
E011767-BATTERY, 12 VOLT, 140AH(C20)	100000000000000000000000000000000000000
E012220-NYLON CABLE TIE, AF523	THE STATE OF THE ACTUAL OF
E012194-HANDLE	
E011497-3/8 USS FLAT WASHER	
E012196-SAFETY SHUT-OFF HANDLE	
E011298-PB PALLETS W/ SUPPORT BLOCK	
E012212-CHARGER PLUG LABEL	
E012239-ON LABELS	
E012240-OFF LABELS	
E012205-21" MACHINE SHROUD (SET)	
E011240- 36 volt charger for AS3200, XT	
E012189-REVERSE BUTTON	
E012215-RED KILL SWITCH (#091130-02)	
E011529-ROCKER SWITCH	+ :
E010865-36 VOLT SYSTEM GAUGE	

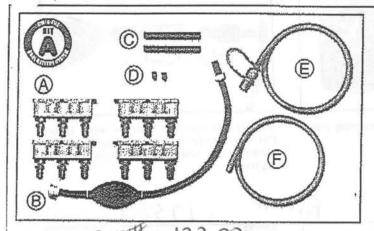
E012235   REVERSE & REMOVE PAD DRIV. LAB		
E012235   REVERSE & REMOVE PAD DRIV. LAB   1   1   1   1   1   1   1   1   1	E010462-3" SWIVAL CASTER	1
E011294- SHIPPING BOX	E012235- REVERSE & REMOVE PAD DRIV. LAB	1
E011294 SHIPPING BOX E010225- 21" FLEX LOK ASSEMBLY E012202- 16 ALUM OVAL SLEEVE E012202- 36 V QUIKFILL WATERING SYST (f E012236- CAP (BLACK) #CCF-1-10-14 E011886- PLASTIC POLY HINGE(1 1/2" BLK) E011837- 6 GA. x 7 LUG TO LUG E011837- 6 GA. x 15" "LUG TO LUG" 36 E01153- 3/64 x 6" LANYARD 7 x 7 GAL AC E010705- BUMPER GUARD (RED) 5 E012243- 3/8- 16 SPINLOCK NUT E01030- 5/16-18 SS HEX NUT E010130- RIVET, AAP68 E011192- 1/4-20X1.00 PHMS PHIP SCREW E012241- 3/00 W MULTICONDUCTOR CABLE E012241- 3/00 W MULTICONDUCTOR CABLE E012260- RED RIGHT TERMINAL COVER E012260- RED RIGHT TERMINAL COVER E01248- 1/4-20 UNC ELASTIC LOCKNUT 2 E010269- 1/4-20 UNC ELASTIC LOCKNUT 3 .5 E012400- D25MM BUSHING / QT25MM E012290- KEY 1 E010250- LABEL.ON/OFF 1 E011889- BRACKET FOR ANDERSON PLUG E012512- RECTANGULAR GROMMET 1 E012514- STAGIC STRIP (1"x 9") 1 E012515- CENTER LOK II (R) RH SET BLACK 1 E011192- 1/4-20XI.00 PHMS PHIP SCREW 4 E012192- 1/4-20XI.00 PHMS PHIP SCREW		1
E011294 SHIPPING BOX E010225- 21" FLEX LOK ASSEMBLY E012202- 16 ALUM OVAL SLEEVE E012202- 36 V QUIKFILL WATERING SYST (f E012236- CAP (BLACK) #CCF-1-10-14 E011886- PLASTIC POLY HINGE(1 1/2" BLK) E011837- 6 GA. x 7 LUG TO LUG E011837- 6 GA. x 15" "LUG TO LUG" 36 E01153- 3/64 x 6" LANYARD 7 x 7 GAL AC E010705- BUMPER GUARD (RED) 5 E012243- 3/8- 16 SPINLOCK NUT E01030- 5/16-18 SS HEX NUT E010130- RIVET, AAP68 E011192- 1/4-20X1.00 PHMS PHIP SCREW E012241- 3/00 W MULTICONDUCTOR CABLE E012241- 3/00 W MULTICONDUCTOR CABLE E012260- RED RIGHT TERMINAL COVER E012260- RED RIGHT TERMINAL COVER E01248- 1/4-20 UNC ELASTIC LOCKNUT 2 E010269- 1/4-20 UNC ELASTIC LOCKNUT 3 .5 E012400- D25MM BUSHING / QT25MM E012290- KEY 1 E010250- LABEL.ON/OFF 1 E011889- BRACKET FOR ANDERSON PLUG E012512- RECTANGULAR GROMMET 1 E012514- STAGIC STRIP (1"x 9") 1 E012515- CENTER LOK II (R) RH SET BLACK 1 E011192- 1/4-20XI.00 PHMS PHIP SCREW 4 E012192- 1/4-20XI.00 PHMS PHIP SCREW	E011565- HANDLE RETURN SPRING	1
E010250 21" FLEX LOK ASSEMBLY   1   E01221-   1/6 ALUM OVAL SLEEVE   1   E012221-   1/6 ALUM OVAL SLEEVE   1   E012220- 36 V QUIKFILL WATERING SYST (f		1
E012202-36 V QUIKFILL WATERING SYST (f E012236-CAP (BLACK) #CCF-1-10-14 22 E011886- PLASTIC POLY HINGE(1 1/2" BLK) 11 E011837-6 GA. x 7 LUG TO LUG 12 E01139-6 GA. x 15" "LUG TO LUG" 33 E011853- 3/64 x 6" LANYARD 7 x 7 GAL AC 5010705- BUMPER GUARD (RED) 55 E012243- 3/8-16 SPINLOCK NUT 46 E011090- 5/16-18 SS HEX NUT 27 E010130- RIVET, AAP68 40 E011192- 1/4-20 UNC SPINLOCK NUT 47 E012241- 3/00 W MULTICONDUCTOR CABLE 48 E012242- 1/4-20 UNC SPINLOCK NUT 49 E012260- RED RIGHT TERMINAL COVER 40 E012261- BLACK RIGHT TERMINAL COVER 5012269- BLACK RIGHT TERMINAL COVER 501269- 1/4-20 UNC ELASTIC LOCKNUT 5011629- 1/4-20 UNC ELASTIC FOR MINDER SPIN BUSHING / QT25MM 5012290- KEY 5012291- SWITCH 5012590- KEY 5012513- POWER (RED) LIGHT 5012513- POWER (RED) LIGHT 5012514- STAGIC STRIP (I"x y") 5012515- IS ABTTERY PLATFORM FOR XT 501192- 1/4-20 LASTIC STRIP (I"x y") 501192- 1/4-20 LATER ON HIM SET BLACK 501192- 1/4-20 LATERY PLATFORM FOR XT 5011192- 1/4-20 LATERY PLATFORM FOR XT 5011192- 1/4-20 LABTTERY PLATFORM FOR XT		CINCELLO ROLL DECEMBE
E012202- 36 V QUIKFILL WATERING SYST (f E012236- CAP (BLACK) #CCF-1-10-14 2 E011886- PLASTIC POLY HINGE(1 1/2" BLK) 1 E011837- 6 GA. x 7 LUG TO LUG 1 E01139- 6 GA. x 15" "LUG TO LUG" 3 E011553- 3/64 x 6" LANYARD 7 x 7 GAL AC 1 E010705- BUMPER GUARD (RED) 5 E012243- 3/8-16 SPINLOCK NUT 4 E011090- 5/16-18 SS HEX NUT 2 E010130- RIVET, AAP68 4 E011192- 1/4-20XI.00 PHMS PHIP SCREW 2 E012242- 1/4-20 UNC SPINLOCK NUT 6 E012214- 300V MULTICONDUCTOR CABLE E012260- RED RIGHT TERMINAL COVER 3 E012260- RED RIGHT TERMINAL COVER 3 E012261- BLACK RIGHT TERMINAL COVER 3 E012261- BLACK RIGHT TERMINAL COVER 5 E010269- 1/4-20 UNC ELASTIC LOCKNUT 2 E011627- 3/8" CONVOLUTED LOOM 12 LOLABE Labor Rate for Equipment 3.5 C0000HE OH Rate for Equipment 3.5 E012291- SWITCH E011550- LABEL,ON/OFF 1 E011889- BRACKET FOR ANDERSON PLUG E012513- POWER (RED) LIGHT E012517- CRACKET FOR ANDERSON PLUG E012517- CRACKET FOR ANDERSON PLUG E012517- CRACKET FOR ANDERSON PLUG E012518- 16 ga. BATTERY PLATFORM FOR XT E01192- 1/4-20 LIGHT FER BLACK E01192- 1/4-20 LIGHT FOR HIS SET BLACK E012519- LATERY PLATFORM FOR XT E01152- 1/4-20 LIGHT FER BLACK E011518- 16 ga. BATTERY PLATFORM FOR XT E011192- 1/4-20 LIOP HMS PHIP SCREW 4	E012221-1/6 ALUM OVAL SLEEVE	CONTRACTOR OF THE PARTY OF THE
E012236- CAP (BLACK) #CCF-1-10-14 E011886- PLASTIC POLY HINGE(1 1/2" BLK) 1 E011837- 6 GA. x 7 LUG TO LUG E01139- 6 GA. x 15" "LUG TO LUG" 3 E011553- 3/64 x 6" LANYARD 7 x 7 GAL AC 1 E010705- BUMPER GUARD (RED) 5 E012243- 3/8-16 SPINLOCK NUT 4 E011090- 5/16-18 SS HEX NUT 2 E010130- RIVET, AAP68 E011192- 1/4-20X1.00 PHMS PHIP SCREW 2 E012242- 1/4-20 UNC SPINLOCK NUT 6 E012241- 300V MULTICONDUCTOR CABLE E012242- 1/4-20 UNC SPINLOCK NUT 3 E012261- BLACK RIGHT TERMINAL COVER 3 E012261- BLACK RIGHT TERMINAL COVER 3 E012261- BLACK RIGHT TERMINAL COVER 3 E01269- 1/4-20 UNC ELASTIC LOCKNUT 2 E011627- 3/8" CONVOLUTED LOOM 12 LOLABE Labor Rate for Equipment 3.5 C0000HE OH Rate for Equipment 3.5 E012240- D2SMM BUSHING / QT25MM E012291- SWITCH E010550- LABEL,ON/OFF 1 E011889- BRACKET FOR ANDERSON PLUG E012513- POWER (RED) LIGHT E012514- STAGIC STRIP (1"x 9") 1 E012517- CENTER LOK II (R) RH SET BLACK 1 E01152- 1/4-20 XI.00 PHMS PHIP SCREW 4 E011192- 1/4-20 XI.00 PHMS PHIP SCREW 4	E012202-36 V QUIKFILL WATERING SYST (f	
E011886- PLASTIC POLY HINGE(1 1/2" BLK)  E011837- 6 GA. x 7 LUG TO LUG  E011139- 6 GA. x 15" "LUG TO LUG"  3 1  E011553- 3/64 x 6" LANYARD 7 x 7 GAL AC  E010705- BUMPER GUARD (RED)  E012243- 3/8-16 SPINLOCK NUT  E011090- 5/16-18 SS HEX NUT  E010100- 5/16-18 SS HEX NUT  E0101192- 1/4-20X1.00 PHMS PHIP SCREW  E011192- 1/4-20X1.00 PHMS PHIP SCREW  E012242- 1/4-20 UNC SPINLOCK NUT  E012214- 300V MULTICONDUCTOR CABLE  E012260- RED RIGHT TERMINAL COVER  E012261- BLACK RIGHT TERMINAL COVER  E012261- BLACK RIGHT TERMINAL COVER  E01269- 1/4-20 UNC ELASTIC LOCKNUT  2 E011627- 3/8" CONVOLUTED LOOM  12 LOLABE Labor Rate for Equipment  3.5  E012400- D25MM BUSHING / QT25MM  E012290- KEY  E012291- SWITCH  E011859- BRACKET FOR ANDERSON PLUG  E012513- POWER (RED) LIGHT  E012517- CENTER LOK II (R) RH SET BLACK  E01152- I/4-20X1.00 PHMS PHIP SCREW  4	E012236-CAP (BLACK) #CCF-1-10-14	
E011837-6 GA. x 7 LUG TO LUG		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E011139- 6 GA. x 15" "LUG TO LUG"  E011553- 3/64 x 6" LANYARD 7 x 7 GAL AC  E010705- BUMPER GUARD (RED)  5 E012243- 3/8-16 SPINLOCK NUT  E010130- RIVET, AAP68  E011192- 1/4-20X1.00 PHMS PHIP SCREW  E012242- 1/4-20 UNC SPINLOCK NUT  E0102242- 1/4-20 UNC SPINLOCK NUT  E0102246- RED RIGHT TERMINAL COVER  E012261- BLACK RIGHT TERMINAL COVER  E010269- 1/4-20 UNC ELASTIC LOCKNUT  E011627- 3/8" CONVOLUTED LOOM  12 LOLABE Labor Rate for Equipment  5 E012290- KEY  E012290- KEY  E012291- SWITCH  E012513- POWER (RED) LIGHT  E012513- POWER (RED) LIGHT  E012518- 16 ga. BATTERY PLATFORM FOR XT  E012518- 16 ga. BATTERY PLATFORM FOR XT  E011518- 1/4-20X1.00 PHMS PHIP SCREW  1 E011251- Ide abor Transport of the purpose		1 1
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E010705- BUMPER GUARD (RED)       5         E012243- 3/8-16 SPINLOCK NUT       4         E011090- 5/16-18 SS HEX NUT       2         E010130- RIVET, AAP68       4         E011192- 1/4-20XI.00 PHMS PHIP SCREW       2         E012242- 1/4-20 UNC SPINLOCK NUT       6         E012214- 300V MULTICONDUCTOR CABLE       3         E012260- RED RIGHT TERMINAL COVER       3         E012261- BLACK RIGHT TERMINAL COVER       3         E012265- 1/4-20 UNC SLASTIC LOCKNUT       2         E010269- 1/4-20 UNC ELASTIC LOCKNUT       2         E010269- 1/4-20 UNC ELASTIC LOCKNUT       2         E011627- 3/8" CONVOLUTED LOOM       12         LOLABE Labor Rate for Equipment       3.5         E0122400- DZSMM BUSHING / QT2SMM       1         E012290- KEY       1         E012291- SWITCH       1         E012291- SWITCH       1         E012505- LABEL,ON/OFF       1         E012512- RECTANGULAR GROMMET       1         E012513- POWER (RED) LIGHT       1         E012514- STAGIC STRIP (1"x 9")       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E011192- 1/4-20XI.00 PHMS PHIP SCREW       4	E011553-3/64 x 6" LANYARD 7 x 7 GAL AC	1 1 1 1
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E011090- 5/16-18 SS HEX NUT  E010130- RIVET, AAP68  E011192- I/4-20X1.00 PHMS PHIP SCREW  E012242- I/4-20 UNC SPINLOCK NUT  E012214- 300V MULTICONDUCTOR CABLE  E012260- RED RIGHT TERMINAL COVER  E012261- BLACK RIGHT TERMINAL COVER  3 E012486- I/4-20 x 1" Stnd, black plas  E010269- I/4-20 UNC ELASTIC LOCKNUT  E011627- 3/8" CONVOLUTED LOOM  12  LOLABE Labor Rate for Equipment  5.5  0000HE OH Rate for Equipment  5.5  0000HE OH Rate for Equipment  E012290- KEY  E012290- KEY  E011889- BRACKET FOR ANDERSON PLUG  E012512- RECTANGULAR GROMMET  E012513- POWER (RED) LIGHT  E012514- STAGIC STRIP (1"x 9")  E012518- 16 ga. BATTERY PLATFORM FOR XT  E011192- I/4-20X1.00 PHMS PHIP SCREW  4		
E010130- RIVET, AAP68   4	E011090-5/16-18 SS HEX NUT	2
E011192- I/4-20X1.00 PHMS PHIP SCREW       2         E012242- I/4-20 UNC SPINLOCK NUT       6         E012214- 300V MULTICONDUCTOR CABLE       3         E012260- RED RIGHT TERMINAL COVER       3         E012261- BLACK RIGHT TERMINAL COVER       3         E012486- I/4 - 20 x 1" Stnd, black plas       2         E010269- I/4-20 UNC ELASTIC LOCKNUT       2         E011627- 3/8" CONVOLUTED LOOM       12         LOLABE Labor Rate for Equipment       3.5         C000HE OH Rate for Equipment       3.5         E012290- KEY       1         E012291- SWITCH       1         E010550- LABEL, ON/OFF       1         E011889- BRACKET FOR ANDERSON PLUG       2         E012512- RECTANGULAR GROMMET       1         E012513- POWER (RED) LIGHT       1         E012514- STAGIC STRIP (1"x 9")       1         E012518- I6 ga. BATTERY PLATFORM FOR XT       1         E01192- 1/4-20X1.00 PHMS PHIP SCREW       4	E010130-RIVET, AAP68	4
E012242-   I/4-20 UNC SPINLOCK NUT	E011192-1/4-20X1.00 PHMS PHIP SCREW	
E012214- 300V MULTICONDUCTOR CABLE   3	E012242-1/4-20 UNC SPINLOCK NUT	6
E012260- RED RIGHT TERMINAL COVER   3	E012214-300V MULTICONDUCTOR CABLE	
E012261-BLACK RIGHT TERMINAL COVER   3   E012486- 1/4 - 20 x 1" Stud, black plas   2   E010269- 1/4-20 UNC ELASTIC LOCKNUT   2   E011627- 3/8" CONVOLUTED LOOM   12   LOLABE Labor Rate for Equipment   3.5   S   E012400- D25MM BUSHING / QT25MM   1   E012290- KEY   1   E012290- KEY   1   E012291- SWITCH   1   E010550- LABEL, ON/OFF   1   E011889- BRACKET FOR ANDERSON PLUG   2   E012512- RECTANGULAR GROMMET   1   E012513- POWER (RED) LIGHT   1   E012514- STAGIC STRIP (1"x 9")   1   E012517- CENTER LOK II (R) RH SET BLACK   1   E012518- 16 ga. BATTERY PLATFORM FOR XT   1   E011192- 1/4-20X1.00 PHMS PHIP SCREW   4	E012260-RED RIGHT TERMINAL COVER	
E012486-   1/4 - 20 x 1"   Stnd, black plas   2	E012261-BLACK RIGHT TERMINAL COVER	
E010269- I/4-20 UNC ELASTIC LOCKNUT       2         E011627- 3/8" CONVOLUTED LOOM       12         LOLABE Labor Rate for Equipment       3.5         O000HE OH Rate for Equipment       3.5         E012400- D25MM BUSHING / QT25MM       1         E012290- KEY       1         E012291- SWITCH       1         E010550- LABEL, ON/OFF       1         E011889- BRACKET FOR ANDERSON PLUG       2         E012512- RECTANGULAR GROMMET       1         E012513- POWER (RED) LIGHT       1         E012514- STAGIC STRIP (1"x 9")       1         E012517- CENTER LOK II (R) RH SET BLACK       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E011192- 1/4-20X1.00 PHMS PHIP SCREW       4	E012486- 1/4 - 20 x 1" Stud, black plas	
E011627- 3/8" CONVOLUTED LOOM	E010269-1/4-20 UNC ELASTIC LOCKNUT	F(4.5 TOP (b) (c) = 2
LOLABE Labor Rate for Equipment       3.5         0000HE OH Rate for Equipment       3.5         E012400- D25MM BUSHING / QT25MM       1         E012290- KEY       1         E012291- SWITCH       1         E010550- LABEL,ON/OFF       1         E011889- BRACKET FOR ANDERSON PLUG       2         E012512- RECTANGULAR GROMMET       1         E012513- POWER (RED) LIGHT       1         E012514- STAGIC STRIP (1"x 9")       1         E012517- CENTER LOK II (R) RH SET BLACK       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E011192- 1/4-20X1.00 PHMS PHIP SCREW       4	E011627-3/8" CONVOLUTED LOOM	
0000HE OH Rate for Equipment       3.5         E012400- D25MM BUSHING / QT25MM       1         E012290- KEY       1         E012291- SWITCH       1         E010550- LABEL,ON/OFF       1         E011889- BRACKET FOR ANDERSON PLUG       2         E012512- RECTANGULAR GROMMET       1         E012513- POWER (RED) LIGHT       1         E012514- STAGIC STRIP (1"x 9")       1         E012517- CENTER LOK II (R) RH SET BLACK       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E011192- 1/4-20X1.00 PHMS PHIP SCREW       4	LOLABE Labor Rate for Equipment	
E012400- D25MM BUSHING / QT25MM   1   E012290- KEY   1   E012291- SWITCH   1   E010550- LABEL,ON/OFF   1   E011889- BRACKET FOR ANDERSON PLUG   2   E012512- RECTANGULAR GROMMET   1   E012513- POWER (RED) LIGHT   1   E012514- STAGIC STRIP (1"x 9")   1   E012517- CENTER LOK II (R) RH SET BLACK   1   E012518- 16 ga. BATTERY PLATFORM FOR XT   1   E011192- 1/4-20X1.00 PHMS PHIP SCREW   4	O00OHE OH Rate for Equipment	
E012291-SWITCH		. 1
E010550- LABEL,ON/OFF       1         E011889- BRACKET FOR ANDERSON PLUG       2         E012512- RECTANGULAR GROMMET       1         E012513- POWER (RED) LIGHT       1         E012514- STAGIC STRIP (1"x 9")       1         E012517- CENTER LOK II (R) RH SET BLACK       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E011192- 1/4-20X1.00 PHMS PHIP SCREW       4		1
E011889- BRACKET FOR ANDERSON PLUG       2         E012512- RECTANGULAR GROMMET       1         E012513- POWER (RED) LIGHT       1         E012514- STAGIC STRIP (1"x 9")       1         E012517- CENTER LOK II (R) RH SET BLACK       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E011192- 1/4-20X1.00 PHMS PHIP SCREW       4	E012291-SWITCH	1
E012512- RECTANGULAR GROMMET       1         E012513- POWER (RED) LIGHT       1         E012514- STAGIC STRIP (1"x 9")       1         E012517- CENTER LOK II (R) RH SET BLACK       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E011192- 1/4-20X1.00 PHMS PHIP SCREW       4	E010550-LABEL,ON/OFF	1
E012512- RECTANGULAR GROMMET   1   E012513- POWER (RED) LIGHT   1   E012514- STAGIC STRIP (1"x 9")   1   E012517- CENTER LOK II (R) RH SET BLACK   1   E012518- 16 ga. BATTERY PLATFORM FOR XT   1   E011192- 1/4-20X1.00 PHMS PHIP SCREW   4	E011889-BRACKET FOR ANDERSON PLUG	2
E012514- STAGIC STRIP (1"x 9") 1 E012517- CENTER LOK II (R) RH SET BLACK 1 E012518- 16 ga. BATTERY PLATFORM FOR XT 1 E011192- 1/4-20X1.00 PHMS PHIP SCREW 4		
E012517- CENTER LOK II (R) RH SET BLACK       1         E012518- 16 ga. BATTERY PLATFORM FOR XT       1         E011192- 1/4-20X1.00 PHMS PHIP SCREW       4		1
E012518-16 ga. BATTERY PLATFORM FOR XT  E011192-1/4-20X1.00 PHMS PHIP SCREW  4		1
E011192-1/4-20X1.00 PHMS PHIP SCREW 4		1
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		4
	E010355-21" AQUA BURNISHING PADS(5/CS)	1



# Owik-Fill On-board Battery Watering System Installation and Operation



## age Contents



Klt A includes:

A. 4 valve manifolds.

D. 2 red end caps (1 extra).

B, 1 squeeze bulb filler assembly. E. 6' water supply line with dust cap. · F. B' battery-to-battery tubing.

C. 2 sets of manifold jumpers.

Kit B includes:

A. 2 valve manifolds.

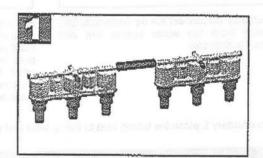
B. 1 set of manifold jumpers.

C. 2 red end caps (1 extra).

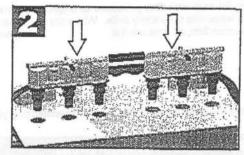
D. 8' water supply line with dust cap.

## Installation

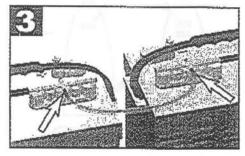
Important: Prior to Initial installation, inspect the existing battery water level. If ave been neglected and the level is ex. \_mely low, manually fill each cell so all plates are covered, but only fill to the bottom of each well. Then charge the batteries, before installing and using Qwik-Fill to top off. Topping off a battery that has been neglected and then charging can cause the water level to expand during the charging process resulting in the loss of electrolyte. Once Qwik-Fill is installed, monthly topping off after charging will prevent an extremely low water level to occur.



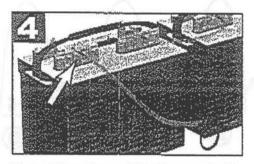
Join two manifolds together as shown using the appropriate size manifold jumper for your battery group size. The manifold jumpers are marked and can be easily cut with a utility knife or a pair of scissors.



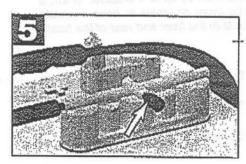
Carefully remove your battery's existing caps and insert a manifold assembly into each battery. Press each assembly firmly in place so that it fits flush with the battery top.



Link multiple batteries together using the clear battery-to-battery tubing. If the batteries are 50" 'ed by several feet, allow the tubing to veen batteries. 31



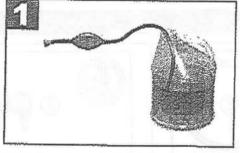
Connect the water supply line to one end of the battery "chain". The 6' of tubing supplied may be cut to the desired length or if a longer length is required 20' of 1/4" ID flexible tubing is available in the Qwik-Fill accessory pack. (sold separately)



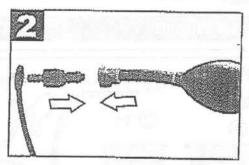
Cover the remaining barb with a red end cap and Installation is complete.

Important: Batteries should only be filled after charging.

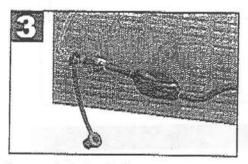
#### A DANGER / POISON SHIELD EXPLOSIVE BULFURIC ACID CASES FLANER CAN CAUSE BLINDHEDS



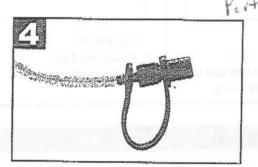
Insert the squeeze bulb filler assembly into a jug of distilled water.



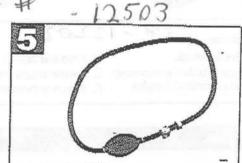
Remove the dust cap from the water supply line and connect it to the squeeze bulb filler assembly by snapping the quick couplers together.



Squeeze the bulb with firm pressure to begin pumping water into the battery cells. When the bulb becomes firm, all cells are full.



Immediately disconnect the squeeze bulb filler assembly from the water supply line and replace the dust cap.



Any water remaining in the squeeze bulb filler assembly may be pumped back into the dietilled water jug. One end of the squeeze bulb filler assembly may be inserted into the other to keep the line clean and to provide a convenient way to hang the filler in a safe place between uses.

## Note:

To remove the clear tubing (if needed, or for winterizing your battery ), plnch the tubing next to fitting, twist and pull straight off.

## 'ypical Installation Configurations

The diagrams below show typical battery arrangements and how they might be plumbed with Qwik-Fill. The latters below each diagram indicate which Qwik-Fill Kits would be required for that configuration.

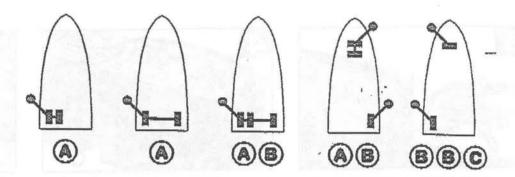
Note: Although the tubing between batteries can be up to a distance of 20', it may be more desirable to have separate fill points in the front and rear of the boat.

## Qwik-Fill Kits

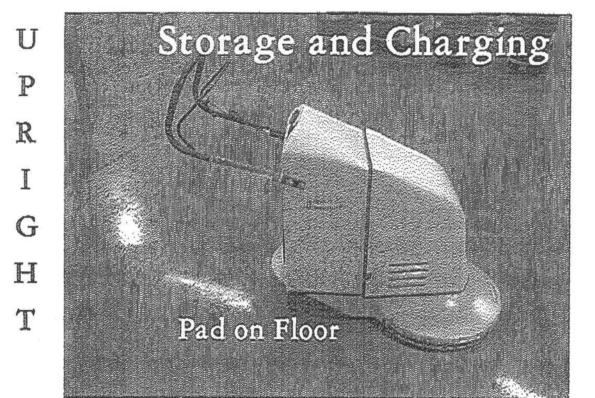
Dual Battery On-board Watering System

Single Battery On-board Watering Add-on

Squeeze Bulb Filling Kit



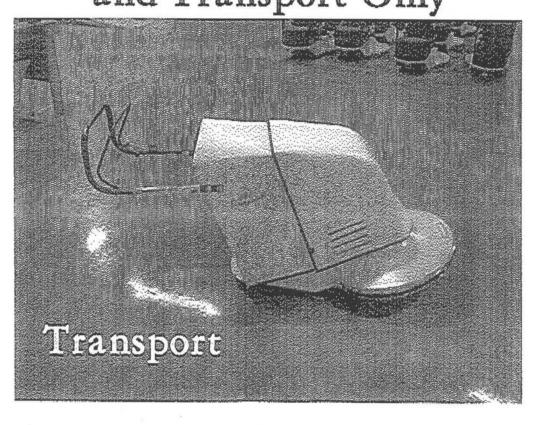




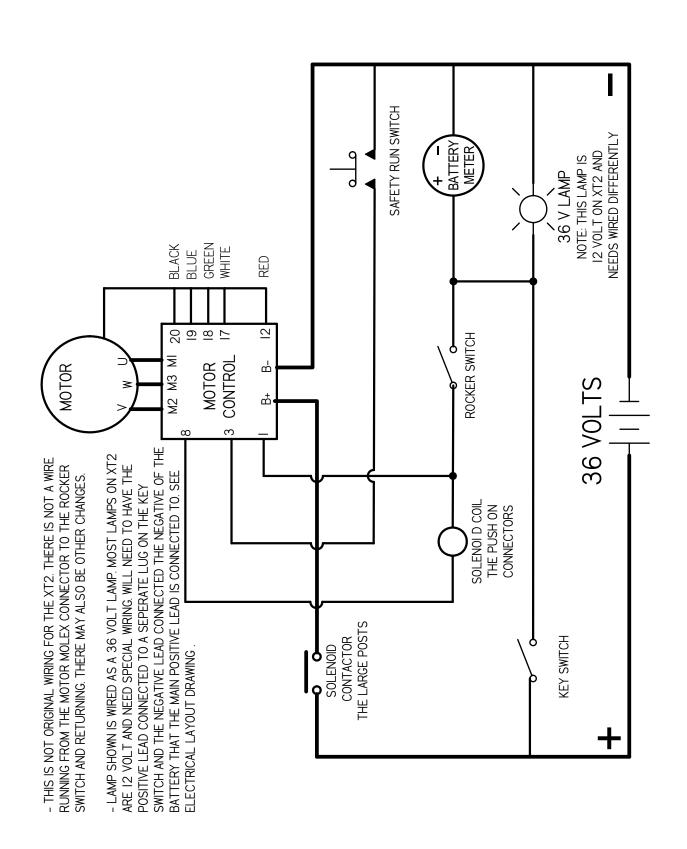
(way)

Store Machine in Upright Position Only
Tilt Machine Back for Changing Pads
and Transport Only

T I L T E D



# ELECTRICAL LADDER DIAGRAM XT2 21 updated 5/9/07



## XT GEN 2 WIRING DIAGRAM (NEW CONFIGURATION) UPDATED BY STEVE YOUNTS 4/17/07

