# **IMPORTANT DOCUMENT - DELIVER TO MANAGER**



# OWNER'S MANUAL and TECHNICAL DOCUMENTATION

# Model 280-9563



Mart Cart™ is a quality product line of Assembled Products™ Corporation



# - IMPORTANT INFORMATION -

Please read before operating.

## **CONGRATULATIONS!**

You have just purchased the best electric shopping cart on the market today. This Mart Cart incorporates the very latest in technological advances. To assure you of the best and safest performance as well as longest life, please read the enclosed information. After reading this manual, should you have a service problem or need help, please call our Customer Service Department with the serial number of your cart, at our toll free number: 1-800-548-3373 or (479) 636-5776.

**DAMAGE:** Check the shipping carton for any visible damage. Report the damage to the freight carrier immediately. File a claim with the carrier if actual damage to your cart has occurred. Check the contents of the carton. The contents should agree with the information listed on the packing list. Report any discrepancy to the carrier and the factory immediately.

**TO ORDER PARTS:** Call **1-800-548-3373 or (479) 636-5776**. Be sure to give the serial number to the Service Department personnel. The Mart Cart serial number is located on the seat support tube under the seat as shown in parts list portion of this manual.

**TERMS:** All parts will be shipped with approved credit card, check in advance or C.O.D. Commercial accounts are allowed 15 day terms from date on invoice with approved credit.

**FREIGHT:** All freight will be paid by the customer. Special consideration will be given to items under warranty coverage.

**ATTENTION:** It is the responsibility of the owner of this cart to maintain the cart in a safe and reliable operating condition at all times.

**NOTE:** Specifications found in this manual subject to change without notice.

# — IMPORTANT SAFETY INSTRUCTIONS —

Please read before operating.

#### **WARNINGS**

- Never attempt to charge the batteries in this cart without using an electrical outlet that is protected by a GFCI.
- Replace charging cord if plug is damaged or if the cord is worn or frayed. Never use the charging cord without proper grounding. Do not use if plug does not have three prongs.
- Never allow the cart to be used out-of-doors or on any surface that is not level.
- Always disconnect power before servicing.
- See "Daily Maintenance Checklist," and follow instructions.
- Cart can roll. Enter and exit cart with care.
- Replace parts using only factory-specified, original equipment from the manufacturer for your specific model. Failure to do so may void warranty, affect operation of the cart, and result in injury.

## **OPERATING PROCEDURES**

- New carts will need charging! Charge batteries for 24 hours prior to first use.
- THIS CART IS FOR USE INDOORS ON A FLAT, LEVEL SURFACE ONLY.
- DO NOT STAND ON CART. (See "Operating & Warning Instructions" on cart).
- After batteries are charged, disconnect power supply cord BEFORE operating cart.
- DO NOT exceed the load limitations as shown on the cart.
- Return power cord to circular cavity when not charging
- DO NOT allow children to operate or play on cart. Keep cart secured with key (if applicable), at service counter.

## **DAILY MAINTENANCE CHECK LIST**

For optimum cart availability and performance, the following items should be checked daily:

- **ELECTRIC CORD**—Replace cord if cord is worn or frayed, 3-prong plug is broken or reel (optional) will not retract. Be sure power outlet provides protection through an operating "Ground Fault Circuit Interrupter" (GFCI).
- SEAT AND MOUNTING—Tighten if necessary. If cracks or rust occur, or if seat rocks loosely, replace at once.
- SEAT SWITCH—Test and replace if not working properly. Cart must stop when weight is removed from seat.
- THROTTLE—Test for smooth "start, acceleration, deceleration, and stop." Repair if necessary. Charge or replace batteries if needed.
- ANTI-TIP CASTERS—Replace if broken. Maintain height adjustment of 1/8" to 1/2" above floor level.
- GENERAL—Repair or replace any component that may cause a
  potential safety hazard.
- APPEARANCE—Wipe off and clean as needed for customer satisfaction and for store's public image.

# — BATTERY CHARGING INSTRUCTIONS —

Please read before charging.

Your cart is equipped with the *Intelli-Charge*™ system. While operating the cart, the LED will be solid **green** until the batteries fall below 24.8 volts and then turns solid **amber**. When the batteries charge falls below 21.0 volts, the LED will begin flashing **red**. The person riding the cart should have ample time to return the cart for charging. When the rider exits the cart, the horn will start beeping in unison with the **red** flashing LED. This will alert those responsible for maintaining the cart to plug in the charger. When plugged into a 120v AC wall socket, the LED will flash **amber** and the horn will silence. When charging is complete the LED will start flashing **green**. The charger may be left plugged in even longer as it will NOT harm the batteries.

LED Color Status LED Off	<u>Description while operating</u> Off/On rocker switch is set to "Off" position
Green (solid)	Off/On rocker switch is set to "On" position - seat switch is engaged - batteries are fully charged
Amber (solid)	Off/On rocker switch is set to "On" position - seat switch is engaged - batteries are below 24.8 volts
Red - Flashing	Batteries need to be charged - below 21.0 volts
LED Color Status Amber - Flashing	Description while charging Charger is plugged in and batteries are charging

- LED Color Status
  Amber Flashing
  Charger is plugged in and batteries are charging
  Charger is plugged in and batteries are charged
- Install a Ground Fault Circuit Interrupter (GFCI) in the electrical circuit wherever the cart is to be charged. This is to protect against any possible shock hazard.
- AC voltage required is 100-240 VAC (50/60 Hz). The current draw is 3.5 amps maximum.
- Charge batteries every night, all night, and at every opportunity.
   When the batteries are fully charged, the charger will maintain a "float voltage" which will not damage the batteries.
- Do not allow the batteries to fully discharge by skipping the nightly charging cycle. Fully discharged batteries will take 7 hours to fully charge, so it is best not to let the batteries become completely discharged.
- Do not store the cart with discharged batteries. This can cause premature battery failure. Fully charge the batteries at least every 30 days if in a low usage location.
- No maintenance of batteries is required. The AGM batteries are maintenance free and water cannot be added.

**NOTE:** Under normal conditions, the batteries will last more than 2 years or longer if the above recommendations are followed. Replace with original Mart Cart batteries only. Mart Cart is not responsible for any adverse effects caused by replacement with any other type of batteries.

**IMPORTANT:** Your cart has been equipped with AGM (Suspended Electrolyte) Batteries during the manufacturing process as original equipment. The manufacturer recommends that you replace the original batteries only with the same type and rating to prevent damage to your cart's internal components, charging system, or personal injury to you and your customer.

# — BATTERY REPLACEMENT INSTRUCTIONS —

Please read before replacing batteries.

**Be Responsible!** Recycle old batteries or dispose of according to local or national codes. See next column, under **DISPOSAL**.

To Replace Batteries: (Read precautions on batteries, under Charging Instructions and Safety Precautions, to avoid any sparks)

- Turn off key switch (if equipped, or flip On/Off switch to "Off" position). Disconnect charger cord from wall outlet, if plugged in.
- Reach under right rear of back cover and pull latch, then tilt chair forward.
- 3. Remove rear cover.
- 4. Untie battery cover straps and remove battery covers.

# CAUTION: Do not cross battery posts with metal object!

- 5. Remove old batteries and place new batteries.
- 6. Reinstall battery covers. They will only fit one way.
- 7. Secure battery cover straps.
- 8. Before reinstalling covers, check wheel condition, and general condition of the chair.
- 9. Reinstall rear cover and tilt chair back.
- 10. Test cart for proper operation. Charge batteries if necessary.

# - ADDITIONAL INFORMATION -

# **SEAT SWITCH**

The seat switch is located under seat. Pressure (weight) on the seat closes the control circuit, and allows the cart to operate.

## **VARIABLE SPEED CONTROL**

The cart's speed is regulated by a potentiometer. This provides extremely smooth acceleration from 0 to 2.5 MPH, and is located in the control box on the steering column.

## **CIRCUIT BREAKER**

The circuit breaker is designed to protect your electrical system from transient overloads or electrical shorts. Either could cause serious damage without a circuit breaker to open the circuit. The circuit breaker is a manual reset type. It requires manual resetting once it has been tripped. It is located on the battery cover.

#### **CHARGING**

HOW IT WORKS: When the power supply cord is plugged into the store's electrical outlet the battery charger is energized. The charger sends approximately 29 volts to the batteries for charging. A third wire (yellow) from the charger output inhibits the PWM until the power to the charger is disconnected. The motor circuit is interrupted until charging is complete. **NOTE:** The cart will not move under power when the batteries are being charged. If the cart moves while plugged in, check the power to your outlet before calling for service.

#### **CONTROL BOX**

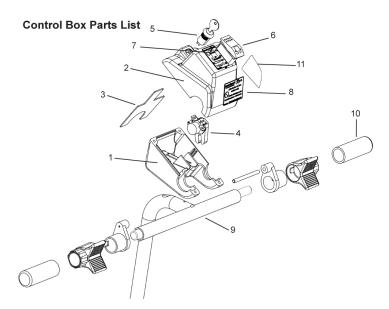
The master control box is located on top of the steering column. It contains the RUN/STOP/HORN switch, and key switch (optional keyless system available). The cover can be removed by removing the four bottom screws. Our models are equipped with the *Intelli-Charge*™ system, a bicolor LED can be found in the **RUN/STOP/HORN** switch.

# — DISPOSAL —

Please read before disposing your old batteries.

Spent batteries must be treated as hazardous waste and disposed of in accordance with local, state and federal guidelines. The BATTERY ACT of 1996 applies to battery disposal and recycling. The life expectancy of the Mart Cart is 7-10 years. The life expectancy of the batteries can be 2 years or longer with recommended charging procedures. The disposal of the Mart Cart can be administered by any local metal recycling center. The recycling of the batteries can be administered by any local battery recycling center.

# — PARTS LISTS AND SCHEMATICS —



## **COMPONENTS:**

<u>lte</u>	<u>em</u>	Part#	<u>Description</u>
1		280-1178	*Control Box Bottom Cover
2		280-1177	*Control Box Top Cover
3		280-1184	*Control Box Divider
4		280-1187	Potentiometer Assembly
5		200-1640	Key Switch (optional)
6		280-1405	Rocker Switch Assembly
7		280-1863	*Top Control Box Overlay
8		280-1185	*Front Control Box Overlay
9		280-1199	Steering Column w/Rod & Grips
10	)	280-1602	Grip
11	l	280-1862	*Intelli-Charge Indicator decal

\*NOTE: Parts are ordered in Control Box Kits below.

## **CONTROL BOX KITS:**

Part #	<u>Description</u>
280-0130	Control Box, Keyless (1-4, 6-8, 11)
280-0131	Control Box, Keyed (1-8, 11)
280-1230	Control Box Top, Keyless (2, 4, 6-8, 11)
280-1231	Control Box Top, Keyed (2, 4-8, 11)
280-1232	Box Top with Decals (2, 7, 8, 11)

# — DECALS FOUND ON ULTIMA BY MART CART® ELECTRIC SHOPPING CART —

Please call 1-800-548-3373 if your decals are missing or are needing replacement.

Standard decals and signs are English and Spanish (see part numbers below). Call for other languages.

#### DAILY MAINTENANCE CHECK LIST

. ELECTRIC CORD and/or REEL . Replace cord and/or real if cord is worn or frayed, 3 pronged plug is broken or real v not retract. Be sure Power-Outlet provides protection through an operating Ground Fault Circuit Interrupter (GPCI).

SEAT & MOUNTING
 Tighten if necessary. If cracks or rust occur, or if seat rocks loosely, replace at once Lubricate swivel or tracks with vaseline as required. Make sure Seat Lock is in good within roundition.

working condition.

S. SEAT SWITCH - If cart is equipped with a seat switch, test and replace if not working properly.

Cart must stop when weight is removed from seat.

4. THROTILE - Test for smooth "start", acceleration, deceleration and "stop". Repair if necessary. Charge

ANTI-TIP CASTERS - Replace if broken. Maintain height adjust

GENERAL - Repair or replace any component that would cause a potential "Safety Hazard".
 APPEARANCE - Wipe off and clean as needed for customer satisfaction and for store's "Pul

# LISTA DE MANTENIMIENTO DIARIO

2. EL ASIENTO Y LA SUBICA - Apriete si es necessión. Si grietas comunes, es carda o si estamo con enumer biogramate, receptibase estamos en como en co

REGULADOR - Apruébalo por el comiezo liso, la ace reemplace la batería si es necesario.

reemplace la batefa al se necesario.

LAS RUEDECLUAS DE ANTHINCURA Penemblasinas si están quebradas. Mantenga el ajuste de la abura de 1/8" a 1/2"
de inivel de plac.

GENERAL - Repero o reemplaze cualquier componente que causarsí un "riesgo de Seguridad" potencial.

LA APARIENCIA - Secuda y limpire cuando see necesario para la satisfacción del cliente y para "la Imagen Publica" de FOR PARTS OR SERVICE CALL PARA PARTES O SERVICIO LLAME 800-548-3373 or 479-636-5776 800-548-3373 o 479-636-5776

200-1127

# **PATENTED**

WARNING

U.S. PATENT NO. 7108090 B2 280-3007

280-3007



# **ADVERTENCIA**



Use extra caution getting "ON" or "OFF" cart. Tenga mucha precaución al "SUBIR" y "BAJAR" del carrito. 3. Cart is on wheels and may roll.

No olvide que el carrito esta sobre ruedas. . Usted tiene que estar sentado para operar el carrito.

5. Mantenga los pies y piernas en el carrito cuando lo este usando.

Favor de no parase en el carrito. 7. No se recargue "EN ni "SOBRE" el costado

del carrito 8. No ponga niños en la canastilla.



280-1095, 280-1848



280-0002

# IN-STORE USE ONLY PARA USO DENTRO DE LA TIENDA SOLAMENTE

## FOR OUR VALUED CUSTOMERS... **BECAUSE WE CARE.**

PARA NUESTROS ESTIMADOS CLIENTES...
PORQUE USTED ES IMPORTANTE



# **NO CHILDREN IN BASKET!**

INO NIÑOS EN LA CANASTA!

200-1155 (front & back)



280-1307

IF CORD IS LOST OR DAMAGED PLEASE USE REPLACEMENT CORD UNDER COVER

280-1831 (optional)

# 200-1387

#### OPERATING INSTRUCTIONS PLEASE READ BEFORE OPERATING

4. You must be seated to operate cart.

Keep feet and legs inboard while operating.

Do not lean "ON" or "OVER" the side of the cart.

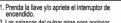
6. Do not stand on cart.

8. NO CHILDREN IN BASKET.

- 1. Turn key on and/or press the "Run" switch.
- Thumb levers rotate to power the cart. Press top lever forward to go forward. Press bottom lever down to go in reverse.
- To stop, release the thumb levers and/or press the "stop" switch.
- If needed, ask cashier for assistance to get your items to your vehicle. Under no circumstances are carts to be taken outside the store.

DO NOT REMOVE FROM STORE

#### INSTRUCCIONES DE OPERACION LEA ANTES DE USAR



Las palancas del pulgar giran para accionar el carrito. Apriete la palanca para avanzar hacia adelante. Presione la palanca inferior hacia bajo para conducir de reversa.

Para detenerse, suelte la palanca o presione el botón de "alto".

De ser necesario, pida ayuda a algun empleado de la tienda para llevar sus compras a su vehiculo. Bajo ninguna circunstancia deberá sacar el carrito fuera de la tienda.

NO SAQUE ESTE CARRITO DE LA TIENDA

CAUTION (!) **HIGH VOLTAGE** 

280-1624

000-1183



Normal Operation
Flashing , Battery needs to be charged
Flashing , Battery is being charged
Flashing , Charging is complete

Trouble Shooting

If cart is plugged in and YELLOW light DOES NOT flash, d A) Check wall outlet for proper power. B) Check circuit breaker on cart. C) Replace onboard charger if A and B are satisfied light DOES NOT flash, do the following

C) Replace onboard charger if A and B are satisfied.

Replace Cart Battery If:
A) Cart charges more than 24 hours and flashing light NEVER turns 해제되었.

B) If light flashes 대한 within the first day of use.

Operacion Normal
Destellando o, bateria necesita ser cargada
Destellando o, bateria ha sido cargada

Destellando o, carga completa

Resolución de problemas

SI el carro esta connectado y la luz APPELLA no esta destellando, haga lo sigu A) Verifique el enchufe de pared para saber si hay la energía. B) Verifique cortacircuitos en el carrito. C) Replaze el cargador que esta en el carrito , si A y B funcior

Reemplace is bateria del carrito si:

A) El carrito esta conectado por más de 12 horas y la luz intermitente nunca prende WEISEE.

B) Si la luz ROJA prende dentro del primer dia de manejar el ci.

280-1570



# CHARGE EVERY NIGHT, . NIGHT, AND AT **EVERY OPPORTUNIT**

280-1992





280-1783

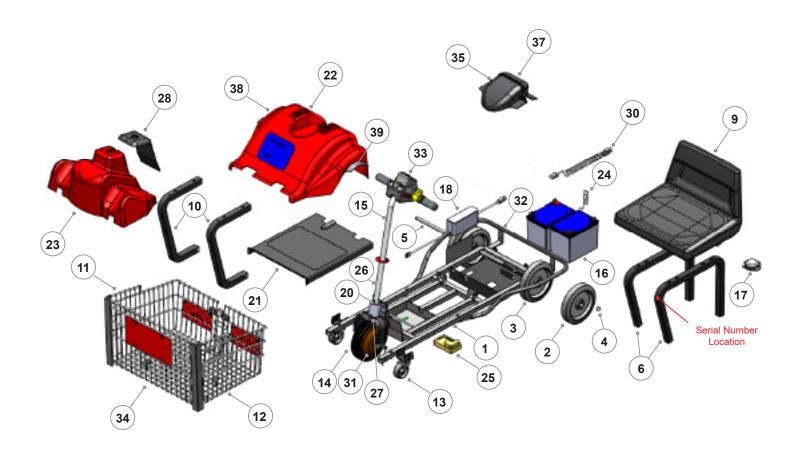


280-1509

# DO NOT STAND ON BUMPER

280-2103

280-1862



Item	Part No.	Description
1	280-1818	Main Frame
2	280-1877	Wheel, 8", Poly-U (outside)
3	280-1268	Wheel, 8", Poly-U (inside)
4	029-0047	Snap Ring
5	280-1963	Axle, Rear
6	280-1261	Seat Mount Tube
7	280-1799	Fuse, 5 AMP Mini
8	260-1228	Circuit Breaker, 15 AMP
9	280-0006	Mart Cart 24" Seat
10	280-1264	Basket Tube (see options pg. 6)
11	200-1799	Basket, LIL Max (see options pg. 6)
12	200-1236	Basket Mounting Clip (4)
13	280-1968	Caster, 2" x 13/16"
14	280-1960	Hub Motor/Wheel/Tire, Brown
15	see pg. 3	Steering Column
16	280-1214	Battery, 35 Ahr
17	200-1553	Seat Switch
18	280-1842	24 VDC Charger - 5 AMP low inhibit
19	280-1997	Main Wire Harness

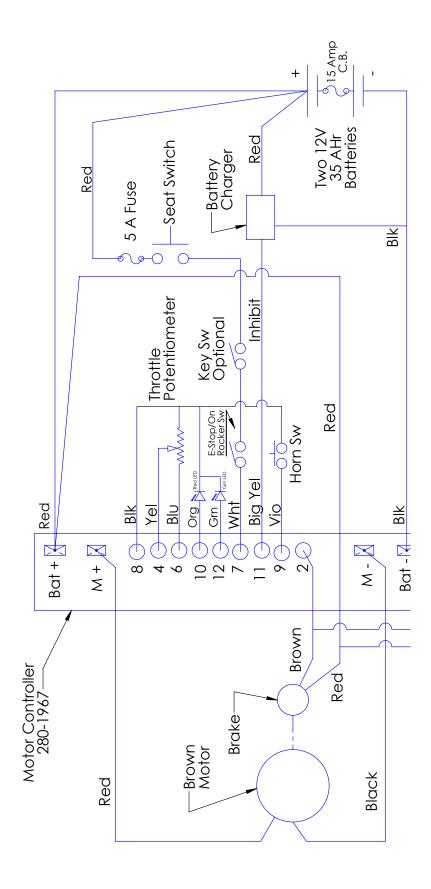
Item	Part No.	Description
20	280-0031	Steering Wire Harness w/Connectors
21	280-1281	Floor Cover
22	280-0005	Rear Cover (select color option)
23	280-1279	Front Cover (select color option)
24	280-1711	Spring Latch for Seat
25	280-1967	Motor Controller, 24V Brown
26	280-1646	Wire Harness (see note) Controller to Motor
27	280-1269	Fork Assembly
28	280-1441	Bridge Cover
30	280-1797	Charging Cord, coiled
31	280-1626	Wire Guide (see note)
32	280-1840	Rear Bumper
33	see pg. 3	Control Box
34	280-1614	Basket bumpers (gray)
35	280-1637	Cord Cover (see note)
37	280-1659	Cord Cover Lid (see note)
38	280-1999	Fender Flair RH
39	280-2000	Fender Flair LH

NOTE: #31 (wire guide) and #26 (wire harness) can be ordered as an assembly part 280-1656 #35 (cord cover) & #37 (cord cover lid) can be ordered as an assembly part 280-0004

# Optional Parts

-		
ltem	Part #	Description
1	280-1374	Jumbo Basket (w/castors & lower shelf)
2	200-8153	Folding Produce Tray
3	280-1586	Check-Writer
4	280-1653	Safety Flag
5	200-1393	Cord Reel - 6'
6	280-1956	Hour Meter
7	280-1609	Crutch Holder Assembly (for basket)
8	280-1833	Crutch Holder Assembly (for seat)





# **MATERIAL SAFETY DATA SHEET**

Product Name: Sealed Maintenance Free Lead-Acid Batteries	

DATE:	1/5/2005	ISSUED BY	ENGINEERING	TELEPHONE NO.	479-636-3245
		HAZARDOUS (	COMPONENTS		
COMPONENTS WEIGHT %	WEIGHT 0/	TLV	LD50	LC50	LC50
	WEIGHT %		ORAL	INHALATION	CONTACT
Lead (Pb, PbO <sub>2</sub> , PBSO <sub>4</sub> )	about 70%	N/A	(500) mg/kg	N/A	N/A
Sulfuric Acid	about 20%	1mg/m <sup>3</sup>	(2,140) mg/kg	N/A	N/A
Fiberglass Separator	about 5%	N/A	N/A	N/A	N/A
ABS Plastic	about 5%	N/A	N/A	N/A	N/A

## PHYSICAL DATA

COMPONENTS	DENSITY	MELTING POINTS	SOLLUBILITY (H <sub>2</sub> O)	ODOR	APPEARANCE
Lead	11.34	327.4° C (Boiling)	None	None	Silver-Gray Metal
Lead Sulfate	6.2	1070° C (Boiling)	40 mg/l(15° C)	None	White Powder
Lead Dioxide	9.4	290° C (Boiling)	None	None	Brown Powder
Sulfuric Acid	about 1.3	about 114° C (Boiling)	100%	Acidic	Clear Colorless Liquid
Fiberglass Separator	N/A	N/A	Slight	Toxic	White Fibrous Glass
ABS Plastic	N/A	N/A	None	No Odor	Solid

#### FLAMMABILITY DATA

COMPONENTS	FLASHPOINT	EXPLOSIVE LIMIT	COMMENTS
Lead	None	None	
Sulfuric Acid	None	None	
Hydrogen		4% - 72.4%	Sealed batteries can emit hydrogen if over charged (float voltage > 2.40 VPC).
Fiberglass Separator	N/A	N/A	Toxic vapors may be released. In case of fire, wear self-contained breathing apparatus.
ABS Plastic	None	N/A	Temp. over 300° C (572° F) may release combustible gases. In case of fire: wear positive pressure self-contained breathing apparatus.

#### FIRST AID

SULFURIC ACID PRECAUTIONS			
Skin Contact:	Skin Contact: Flush with water, see physician if contact area is large or if blisters form.		
Eye Contact: Call physician immediately and flush with water until physician arrives.			
Ingestion: Call physician. If patient is conscious, flush mouth with water, have patient drink milk or sodium bicarbonate solution. National Poison Center: 1-800-222-1222			

## REACTIVITY DATA

COMPONENT	Sulfuric Acid
STABILITY	Stable at all temperatures
COLYMERIZATION	Will not polymerize
INCOMPATIBILITY	Reactive metals, strong bases, most organic compounds
DECOMPOSITION PRODUCTS	Sulfuric dioxide, trioxide, hydrogen sulfide, hydrogen
CONDITIONS TO AVOID	Prohibit smoking, sparks, etc. from battery charging area. Avoid mixing acid with other chemicals

## SPILL OR LEAK PROCEDURES

Steps to take in case of leak or spill:	If sulfuric acid is spilled from a battery, neutrilize acid with bicarbonate (baking soda), sodium carbon (soda ash), or calcium oxide (lime). Flush area with water and discard to the sewage system. Do not allow unneutralized acid into sewage system.
Waste disposal method:	Neutrilized acid may be flushed down the sewer. Spent batteries must be treated as hazardous waste and disposed of according to local, state, and federal guidelines. A copy of this MSDS must be supplied to any scrap dealer or secondary lead smelter with battery.

#### PROTECTION

THO I DO TO THE			
EXPOSURE SITE	PROTECTION	COMMENTS	
SKIN	Rubber gloves, Apron	Protective equipment must be worn if the battery is cracked or otherwise damaged. A respirator should be worn during reclaim operations if the TLV is exceeded.	
RESPIRATORY			
EYES	Safety goggles, Face Shield		

## ELECTRICAL SAFETY

Due to the battery's low internal resistance and high power density, high levels of short circuit current can be developed across the battery terminals. Do not rest tools or cables on the battery. Use insulated tools only. Follow all installation instructions and diagrams when installing or maintaining battery systems.

#### HEALTH HAZARD DATA

LEAD: The toxic effects of lead are accumulative and slow to appear. It affects the kidneys, reproductive, and central nervous systems. The symptoms of lead overexposure are anemia, vomiting, headache, stomach pain (lead colic), dizziness, loss of appetite, and muscle and joint pain. Exposure to lead from a battery most oftern occurs during lead reclaim operations through the breathing or ingestion of lead dust or fumes.

SULFURIC ACID: Sulfuric acid is a strong corrosive. Contact with acid can casue severe burns on the skin and in eyes. Ingestion of sulfuric acid will cause GI tract burns. Acid can be released if the battery case is damaged or if vents are tampered with.

FIBERGLASS SEPARATOR: Fibrour glass is an irritant of the upper repiratory tract, skin and eyes. For exposure up to 10F/CC use MSA Comfoll with type H filter. Above 10F/CC up to 50F/CC use Ultra-Twin with type H filter. This product is not considered carcinogenic by NTP or OSHA.

ALL DATA MUST BE PASSED TO ANY SCRAP DEALER OR SMELTER WHEN BATTERY IS RESOLD.



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www.martcart.com 800-548-3373

