

## OWNERS MANUAL

ENGINEERED WITH THIN PLATE PURE LEAD (TPPL) TECHNOLOGY

# EXTREME POWER AND ENDURANCE



# ODYSSEY<sup>®</sup> BATTERY



[www.odysseybattery.com](http://www.odysseybattery.com)

[www.enersys.com](http://www.enersys.com)

## INTRODUCTION

The ODYSSEY® battery ingeniously uses absorbed glass mat (AGM) technology to offer, in one box, the characteristics of two separate batteries. It can deep cycle as well as provide enormous cranking power – it is almost as if a champion long distance runner and a world class sprinter are one and the same person.

These batteries are capable of providing engine cranking pulses in excess of 2250A for 5 seconds as well as 400 charge/discharge cycles to 80% depth of discharge (DOD). A typical starting, lighting and ignition (SLI) battery can do one or the other, but not both. It is either a sprinter or a long distance runner; ODYSSEY batteries will do both – provide short duration high amperage pulse or low rate long duration drains.

In order to achieve the full design cycle life of ODYSSEY batteries in cyclic applications the charge current must be a **minimum of 40% of the battery's 10-hour rating (column 8 of the chart on page 5)**. Thus the minimum charge current for a PC925 battery in a cycling application is 10.8 amps (40% of 27Ah). Please refer to Figure 6 of the ODYSSEY Technical Manual for a detailed discussion of the recommended charge profile for ODYSSEY batteries in cycling applications. The manual may be downloaded from [www.odysseybattery.com](http://www.odysseybattery.com).

## WHY USE ODYSSEY® BATTERIES?

### GUARANTEED LONGER SERVICE LIFE

With an eight to twelve year design life (float) and a three to ten year service life, ODYSSEY batteries save you time and money because you do not have to replace the battery as often. Since actual warranty can vary with your geographical location, please check with your ODYSSEY Extreme Series battery representative for the warranty specific to your application.

### SUPERIOR CRANKING AND FAST CHARGE CAPABILITY

The 5 second cranking power of ODYSSEY batteries is double to triple that of equally sized conventional batteries, even when the temperature is as low as -40°C. Also, with simple constant voltage charging (alternator or independent charger), there is no limitation on the inrush current, so the user is assured of fast charge recovery.

### MOUNTING FLEXIBILITY

The ODYSSEY battery may be installed in any orientation (except inverted) without sacrificing any performance attributes. There is no fear of any acid spillage as ODYSSEY batteries recycle the internal gas during operation or charging. The valve regulated design of the ODYSSEY battery eliminates the need for an acid vent tube; eliminating the fear of acid burns or damage to expensive chrome or paint.

### SUPERIOR VIBRATION RESISTANCE

ODYSSEY batteries have endured rigorous tests that demonstrate their overall ruggedness and exceptional tolerance of mechanical abuse.

### READY OUT OF THE BOX

ODYSSEY batteries are shipped fully charged. If the ODYSSEY battery's voltage is 12.65V or greater, simply install the battery in your vehicle and you are ready to go! If below 12.65V, boost charge following the instructions in the ODYSSEY battery Owner's Manual and/or Technical Manual. Putting a boost on the battery will not damage it, even if its voltage reads higher than 12.65V.

### WORRY-FREE SHIPPING

Owing to the drycell design, the US Department of Transportation (USDOT) has classified the ODYSSEY battery as nonspillable, so it may be shipped worry-free by express service or by air.

### LONGER STORAGE LIFE

Unlike conventional batteries that require a recharge every six to twelve weeks, the ODYSSEY battery can be stored for up to two years at 25°C from a fully charged state. These batteries can be stored for two years or when the open circuit voltage (OCV) drops to 12.00V, whichever comes first.

### DEEP DISCHARGE RECOVERY

Should the ODYSSEY battery become deeply discharged, simply recharge following instructions in this manual.

## INSTALLATION

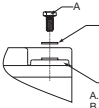
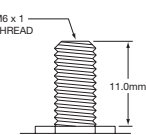
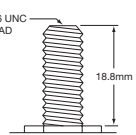
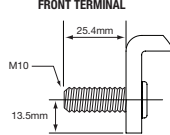
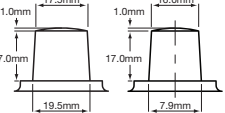

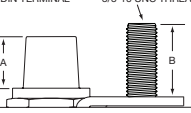
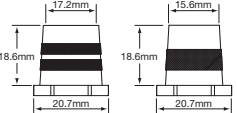
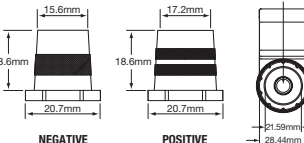
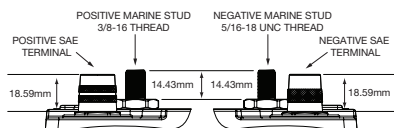
Your ODYSSEY® battery is normally ready to install right out of the box! Measure the battery voltage; if it is 12.65 volts or greater, install; if less, then refer to the charging section.

### ANY OF THE FOLLOWING WILL VOID YOUR WARRANTY:

- EXPOSING BATTERY TO OIL, ORGANIC SOLVENT, ALCOHOL, DETERGENT, STRONG ACIDS, STRONG ALKALIS, PETROLEUM-BASED SOLVENT OR AMMONIA SOLUTIONS
- REMOVING THE LABELED COVER
- REMOVING OR DESTROYING THE BATTERY'S DATE CODE

### DO NOT SHORT CIRCUIT YOUR ODYSSEY® BATTERY'S TERMINALS!

Remove any metallic items such as watches, bracelets and other personal jewelry to ensure safe installation.

<p><b>ALL OTHER MODELS</b></p>  <p>NOTE: PC535 and PC625 Bolt installations are in horizontal orientation.</p>	<p><b>PC370, PC950 &amp; PC1100</b></p> 	<p><b>31-PC2150S</b></p>  <p>NTS</p>	<p><b>PC1800-FT FRONT TERMINAL</b></p> 
<p><b>PC1220 &amp; PC1350</b></p>  <p>POSITIVE      NEGATIVE</p>	<p><b>SAE TERMINALS</b></p>  <p>A. Brass Post B. Helicoil Insert C. Accessory Bolt 3/8-16 Course Thread (not included) D. Battery</p>	<p><b>PC2250</b></p>  <p>DIN TERMINAL      3/8-16 UNC THREAD</p> <p>A. 18.2mm MAX B. 24.5mm MAX</p> <p>NTS</p>	<p><b>34R-PC1500</b></p>  <p>POSITIVE      NEGATIVE</p>
<p><b>75/86-PC1230 25-PC1400 35-PC1400 34-PC1500 34/78-PC1500 65-PC1750 31-PC2150T</b></p>  <p>NEGATIVE      POSITIVE</p> <p>TOP TERMINALS</p> <p><b>75/86-PC1230 34/78-PC1500</b></p> <p>3/8-16 UNC-2B 8.6mm DEEP</p> <p>SIDE TERMINAL</p>	<p><b>34M-PC1500 &amp; 31M-PC2150</b></p>  <p>POSITIVE MARINE STUD      NEGATIVE MARINE STUD</p> <p>3/8-16 THREAD      5/16-18 UNC THREAD</p> <p>POSITIVE SAE TERMINAL      NEGATIVE SAE TERMINAL</p> <p>18.59mm      14.43mm      14.43mm      18.59mm</p> <p>NOTE: See SAE terminal drawing for detailed dimensions</p>		

1. Using proper procedures as recommended by the vehicle manufacturer, carefully disconnect the cables from your old battery and remove it from the vehicle. Return the spent battery to the battery dealer for proper recycling.
2. Inspect existing battery cables for corrosion, acid damage or insulation deterioration. Replace if deterioration is present.
3. Position your ODYSSEY battery in the battery holder and fasten firmly to the vehicle.
  - Optional height adapter may be used on 34-PC1500 models for installations where a group 24 or group 27 is required. Snap the adapter securely into place on the bottom of the battery. In some installations the 34R-PC1500 model with this adapter may be used to replace a group 24F or 27F depending on required cable length.
4. Connect the positive cable from your ignition to the Positive (+) terminal.
5. Connect the negative cable from your engine or chassis to the Negative (-) terminal.



6. Torque the bolt, screw or nut per the specification noted in table. If you're using the Accessory Bolt (A), hold the Brass Post (A) with vise grips and counter torque. Do the same with General Motors® automotive battery cable installation.

**NOTE: This is a valve regulated sealed battery and never needs to have water or electrolyte (acid) added. Warranty will be void if opened!**

### SPECIAL NOTICE!

- CUSTOM V-TWIN MOTORCYCLE INSTALLATIONS USING ODYSSEY PC535, PC545, PC545MJ, PC680MJ & PC925LMJ BATTERIES

If your V-Twin motorcycle is equipped with a standard 32 amp single phase stator/alternator and you ride at a low engine rpm around town or even on long rides, the appropriate ODYSSEY® battery may run out of charge due to low amperage output of the bike's stator at low rpms. After riding, turn the bike's engine off but leave the lights on for 30 seconds. Then, turn everything off and connect to a suitable charger.

- Prolonged storage of vehicles with fuel injection computers, alarms, GPS and other electrical devices that require continuous battery power to support active memories; this power drain must be offset with a maintenance-float charger, periodic charging or disconnecting the battery to prevent the establishment of irreversible crystallized sulphation in the battery plate oxide. Failure to address this destroys battery capacity and voids the warranty, as this is not a warranted defect in materials or workmanship.

## ODYSSEY® BATTERY STORAGE AND DEEP DISCHARGE RECOVERY

Figure 2 shows the relationship between open circuit voltage (OCV) and state of charge (SOC) for the ODYSSEY battery.

### (A) How do I know the state of charge of the battery?

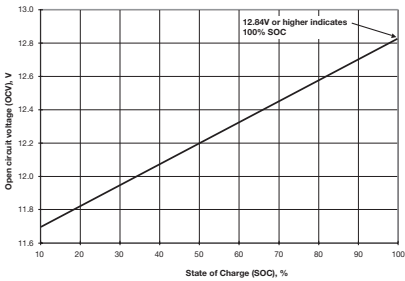


Figure 2: ODYSSEY Battery OCV vs. SOC

As long as the battery has not been charged or discharged for 6 or more hours, Figure 2 can be used to determine the SOC of the ODYSSEY battery. Use a high quality digital voltmeter to measure its OCV. The graph shows that a healthy, fully charged ODYSSEY battery will have an OCV of 12.84V or higher at 25°C.

### (B) How long can the battery be stored?

Refer to Figure 3 below. At 25°C, these batteries can be stored for up to 2 years. The lower the temperature, the longer the storage time.

The battery must be charged before storage.

Roughly every 10°C increase in temperature cuts storage time in half. If the temperature rises to 35°C the battery may be stored for only 1 year before a recharge becomes necessary. Figure 3 will apply only if the battery is fully charged before storage.

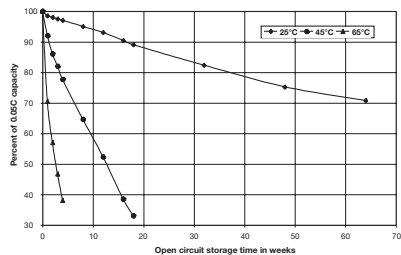


Figure 3: ODYSSEY Battery storage time at temperatures

\*Cold Start Performance S.A.E J537 JUNE 82    \*\*Pulse Current    † Can be fitted with brass automotive terminal

Optional metal jackets available on available on PC545, PC680, PC925, PC1200, PC1700 and 31-PC2150

**Operating Temperature Range:**

PC310, PC370, PC950, PC1100 and PC1800-FT: -40°C to 50°C,  
PC535 and PC625: -40°C to 45°C,  
PC545, PC680, PC925, PC1200 and PC1700 without metal jacket: -40°C to 45°C,  
PC545, PC680, PC925, PC1200 and PC1700 with metal jacket: -40°C to 80°C,  
PC1220, PC1350 and PC2250: -40°C to 40°C,  
All other models: -40°C to 80°C

†† Height may include SAE/DIN terminal, metal jacket and maximum tolerance

Model	Voltage	PHCA** (5 sec)	CCA*	HCA	MCA	Nominal Capacity		Reserve Capacity Minutes	Length mm	Width mm	Height †† mm	Weight kg	Terminal	Torque Specs Nm max	Internal Resistance (mΩ)	Short Circuit Current
						20 Hr Rate-Ah	10 Hr Rate-Ah									
PC310	12	310	100	200	155	8	7	9	137.5	86.0	99.0	2.7	M4 Receptacle	1.0	27.1	455A
PC370	12	425	200	315	270	15	14	25	200.0	77.0	140.0	5.7	M6 Stud	3.9	13.5	891A
PC535	12	535	200	300	265	14	13	21	170.2	99.1	158.5	5.4	M6 Receptacle	4.5	8	1000A
PC545	12	460	150	280	220	13	12	18	177.8	85.9	131.3	5.2	M6 Receptacle	5.6	10	1200A
PC625	12	530	200	420	340	18	17	27	170.2	99.1	176.5	6.0	M6 Receptacle	4.5	7	1800A
PC680	12	520	170	350	280	16	16	24	184.7	79.0	191.8	7.0	M6 Receptacle† or SAE 3/8" Receptacle	5.6	7	1800A
PC925	12	900	330	610	480	28	27	48	168.7	179.1	148.1	11.8	M6 Receptacle† or SAE 3/8" Receptacle	6.8	5	2400A
PC950	12	950	400	600	500	34	32	60	250.0	97.0	156.0	9.0	M6 Stud	3.9	7.1	1700A
PC1100	12	1100	500	800	650	45	43	87	250.0	97.0	206.0	12.5	M6 Stud	3.9	5.1	2450A
PC1200	12	1200	540	860	725	42	40	78	199.9	169.2	193.0	17.4	M6 Receptacle† or SAE 3/8" Receptacle	6.8	4.5	2600A
PC1220	12	1220	680	960	860	70	64.8	135	278.0	175.0	190.0	20.7	DIN Lead Post	N/A	5.7	2200A
75/86- PC1230	12	1230	760	1050	815	55	50	110	240.3	179.8	201.2	20.6	TOP SAE SIDE 3/8" Receptacle	6.8	2.5	3100A
PC1350	12	1350	770	1080	960	95	88.5	195	353.0	175.0	190.0	27.4	DIN Lead Post	N/A	4.2	2900A
25-PC1400	12	1400	850	1150	950	65	55	130	240.3	173.7	220.7	22.7	SAE	6.8	2.5	3100A
35-PC1400	12	1400	850	1150	950	65	55	130	240.3	173.7	220.7	22.7	SAE	6.8	2.5	3100A
34-PC1500	12	1500	850	1250	1050	68	62	135	275.6	171.7	200.2	22.4	SAE	6.8	2.5	3100A
34R-PC1500	12	1500	850	1250	1050	68	62	135	275.6	171.7	200.2	22.4	SAE	6.8	2.5	3100A
34M-PC1500	12	1500	850	1250	1050	68	62	135	275.6	171.7	201.9	22.4	SAE and 3/8" Stud (Pos.), 5/16" Stud (Neg.)	6.8	2.5	3100A
34/78- PC1500	12	1500	850	1250	1050	68	62	135	275.6	179.8	200.2	22.4	TOP SAE SIDE 3/8" Receptacle	6.8	2.5	3100A
PC1700	12	1550	810	1325	1175	68	65	142	331.0	168.4	197.6	27.6	M6 Receptacle† or SAE 3/8" Receptacle	6.8	3.5	3500A
65-PC1750	12	1750	950	1350	1070	74	65	145	300.5	182.9	190.5	26.3	SAE	6.8	2.0	5000A
PC1800-FT	12	1800	1300	1600	1450	214	190	475	581.0	125.0	316.5	60.0	M10 Stud	9.0	3.3	3800A
31-PC2150	12	2150	1150	1545	1370	100	92	205	331.7	175.0	243.6	35.3	3/8" Stud or SAE†	16.9-22.6	2.2	5000A
31M-PC2150	12	2150	1150	1545	1370	100	92	205	330.2	172.7	238.5	35.3	SAE and 3/8" Stud (Pos.), 5/16" Stud (Neg.)	16.9-22.6	2.2	5000A
PC2250	12	2250	1225	1730	1550	126	114	240	286.0	269.0	233.0	39.0	DIN Terminal and 3/8" Stud Only	11.0 For 3/8" Stud Only	2.1	5000A

## MAINTENANCE

ODYSSEY® batteries are very different from standard liquid-acid batteries that are openly vented. The ODYSSEY battery is and operates as a sealed battery, recycling nearly all gases internally under normal operating conditions. There is no corrosion of the positive terminal or corrosion to the surrounding area. ODYSSEY batteries are shipped fully charged from the factory, but prior to installation, check the battery's voltage to see if it is 12.65 volts or greater. If not, recharge it using the procedure below.

Do not charge in an air tight compartment

**Never attempt to remove the top decal cover, as it will cause the battery to fail.**

## CHARGING

The state of charge in an ODYSSEY battery can be determined from the following chart:

Voltmeter Reading	State of Charge
12.84 Volts or higher	100%
12.50 Volts	75%
12.18 Volts	50%
11.88 Volts	25%

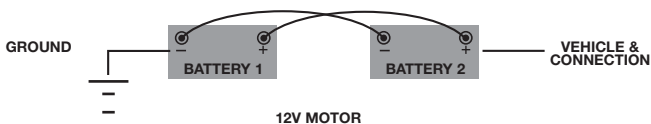
To get long life from the ODYSSEY battery, it is important that the battery is kept near full charge, approximately 12.8 volts. If there are electrical loads during storage, then the negative battery cable should be disconnected or an independent float charger used. Low power float/maintenance chargers will keep a fully charged battery fully charged but cannot recharge if the ODYSSEY battery becomes discharged.

**Racing Vehicles using total loss (no alternator)** - standard automotive type chargers are not designed to return 105-108% of the energy removed. They normally boost charge to 80-95% and expect the alternator to complete the charge.

To fully charge a 31-PC2150 battery that is routinely discharged deeply, a minimum of 40 amps are required with charger voltage within the range of 14.1V to 14.7V. It is imperative not to exceed 15.0V as this will cause the pressure valves to open and out-gas hydrogen, oxygen and water from inside the battery. This will shorten the life of the battery and cause premature failure. Some portable chargers exceed 15.0V, especially two-wheel garage chargers, so charging voltages should be verified by measuring the charging voltage during the time when the charging amperage is reducing from full output. The deep cycle charging voltage must be within 14.1V minimum to 14.7V maximum.

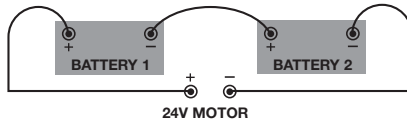
If a standard automotive charger is used to boost charge a discharged battery because of an accessory left on, it is important to make sure the charging voltage does not exceed 15 volts during charge. A hand held voltmeter can be used to monitor this periodically. The following chart provides recharge times under this type of boost charging to an 80-95% recharge and then allows the vehicle charging system to complete the charge.

## 12V PARALLEL CONNECTION



## 24V BATTERY CONNECTION

To power a 24V system, you will need to connect two ODYSSEY® batteries in series. As shown in the top illustration, below the negative of Battery 1 is wired to the positive of Battery 2.



ODYSSEY® Battery Model	Charge time for 100% discharged battery (11.5 volts)	
	10-amp charger	20-amp charger
PC310	1.28 hours	40 minutes
PC370	1.5 hours	45 minutes
PC535	2.25 hours	1.25 hours
PC545	2 hours	1 hour
PC625	3 hours	1.5 hours
PC680	2.7 hours	1.5 hours
PC925	4.5 hours	2.25 hours
PC950	3 hours	1.5 hours
PC1100	4 hours	2 hours
PC1200	6.75 hours	3.5 hours
75/86-PC1230	9 hours	4.5 hours
25-PC1400 & 35-PC1400	10.5 hours	5.25 hours
34-PC1500, 34R-PC1500, 34M-PC1500, 34/78-PC1500	11 hours	5.5 hours
PC1700	11 hours	5.5 hours
PC1220 & 65-PC1750	11 hours	5.5 hours
PC1800-FT	Not Recommended	17 hours
PC1350, 31-PC2150 & 31M-PC2150	16 hours	8 hours
PC2250	20 hours	10 hours

## WINTER STORAGE

The ODYSSEY battery does not lose its charged energy during cold storage temperatures, so there is no need to trickle or float charge during winter months. To store off-season, measure the battery voltage to make sure it is fully charged, 12.84 volts or greater; recharge if necessary. Disconnect the negative battery cable to prevent any applied electrical load during storage. The ODYSSEY battery cannot freeze down to -40°C, -30°C for PC2250, so it can be left in the vehicle. It can be stored for 2 years or more below 25°C. Charging is required at 2 years or 12V, whichever comes first.

A 12V trickle charger with no more than 2% nominal capacity output can also be left connected to the battery if it is kept in storage for extended periods or if the battery is subject to parasitic loads during storage. The trickle charge voltage measured at the battery terminals must be between 13.5V and 13.8V.

## WARRANTY:

EnerSys Energy Products Inc. ("Manufacturer") warrants its ODYSSEY® batteries (hereafter referred to as "Battery") to be free of defects in material and workmanship for the following Applicable Warranty Periods:

- 2 years for Auxiliary Power (APU) and other non engine start cycling applications.
- 2 years for power sports applications.
- 3 years for commercial, industrial, marine and automotive applications in non BCI sizes.
- 4 years for an engine starting application for PC1220, PC1350, PC2250 and all BCI sizes.

The warranty does not cover a Battery reaching its normal end of life which may occur prior to the warranty periods stated above. Depending on the application a Battery can reach its normal end of life before the end of the warranty period.

A Battery can deliver only a fixed number of usable amp-hours over its lifetime and is considered to have reached its normal end of life if the application uses up all of these amp-hours, regardless of the time the Battery has been in service. Therefore Manufacturer reserves the right to deny a warranty claim if it determines the Battery to be at its normal end of life, even if the claim is lodged within the applicable warranty period.

The Applicable Warranty Period begins from the date of purchase with original receipt, or, if no receipt is available, from Manufacturer's shipping date as stated on the battery. Batteries determined to meet the conditions of this warranty will be replaced free of charge if, at the sole discretion of Manufacturer, adjustment is necessary due to defect in material or workmanship. Batteries for warranty replacement consideration are to be returned to the original supplying distributor/dealer. If not feasible, other ODYSSEY distributors/dealers can be approached but a warranty processing fee may be applied. This warranty may vary from country to country; contact your authorized ODYSSEY Battery wholesaler or dealer for the applicable warranty.

Batteries replaced under the warranty provisions will be shipped with a yellow replacement warranty sticker and carry only the remainder of the original Applicable Warranty Period.

- To register your ODYSSEY battery, please visit our website at [www.odyssey.com](http://www.odyssey.com) or contact us at 1-888-422-0317

## GENERAL PROVISIONS:

- A. Manufacturer has no obligation under the limited warranty herein in the event the Battery is damaged or destroyed as a result of one or more of the following:
- Willful abuse, misuse, physical damage, neglect or if the top decorative cover has been removed.
  - Natural forces such as wind, lightning, hail; damage due to fire, collision, explosion, vandalism, theft, penetration or opening of the Battery case in any manner.
  - Overcharging, undercharging, charging or installing in reverse polarity, improper maintenance, allowing the Battery to be deeply discharged via a parasitic load or mishandling of the Battery such as but not limited to using the terminals for lifting or carrying the Battery. Trickle chargers that do not have a regulated trickle charge voltage between 13.5V and 13.8V (no lower than 13.5V and no higher than 13.8V) will cause early failure of the Battery. Use of such chargers with the Battery will also void the Battery's warranty. For applications where an alternator is present, the alternator must deliver between 14.0V and 14.7V when measured at the Battery's terminals. Alternators that do not have a regulated charge between 14.0V and 14.7V (no lower than 14.0V and no higher than 14.7V) will cause early failure of the Battery. Use of such alternators with the Battery will also void the Battery's warranty.

- Failure to properly install the Battery or lack of metal jacket for high temperature or vibration applications.
- Repair or attempted repair of the Battery by anyone other than an authorized Manufacturer's representative shall void this warranty.
- Normal or accelerated deterioration in the electrical qualities due to operating or application conditions.
- If the Battery is used for an application that requires higher cranking power or a greater reserve rating than the Battery is designed to deliver, or the Battery capacity is less than the Battery capacity specified by the vehicle manufacturer, or the Battery is otherwise used in applications for which it was not designed.
- Prolonged storage of vehicles with fuel injection computers, alarms, GPS and other electrical devices that require continuous battery power to support active memories; this power drain must be offset with a maintenance-float charger, periodic charging or disconnecting the Battery to prevent irreversible damage. A Battery with an open circuit voltage (OCV) of equal to or less than 8.0V will be deemed as over discharged and void warranty due to misuse and/or neglect.

**WARNING - DO NOT USE ANY TYPE OF OIL, ORGANIC SOLVENT, ALCOHOL, DETERGENT, STRONG ACIDS, STRONG ALKALIS, PETROLEUM-BASED SOLVENT OR AMMONIA SOLUTION TO CLEAN THE BATTERY COVERS AND BATTERY TOPS. THESE MATERIALS MAY CAUSE PERMANENT DAMAGE TO THE BATTERY COVERS BATTERY TOPS AND WILL VOID THE WARRANTY.**

B. To obtain warranty service:

1. Return the Battery to the original supplying wholesaler or dealer.
2. If the Battery is determined by Manufacturer, in its sole discretion, to be defective for material or workmanship under terms of this limited warranty, it will be replaced.
3. Manufacturer's acceptance of any items shipped to Manufacturer shall not be deemed an admission that the items so shipped are defective. Any items shipped back to Manufacturer, shall in Manufacturer's sole discretion, become Manufacturer's property.

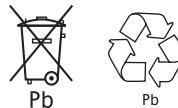
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Keep your receipt. Receipt is required for longest Warranty Protection.

**For your convenience, this space is provided for attaching your original receipt.**

Always properly recycle your lead acid battery by returning to an authorized recycling centre or automotive dealer.



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