

Congratulations! You've just purchased the battery of the future!
Please read these instructions before installing your ODYSSEY®.

INSTALLATION:

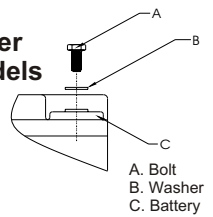
Your ODYSSEY is normally ready to install right out of the box! Measure the battery voltage; if it is 12.65 volts or greater, install; if less, then refer to the charging section.

ANY OF THE FOLLOWING WILL VOID YOUR WARRANTY:

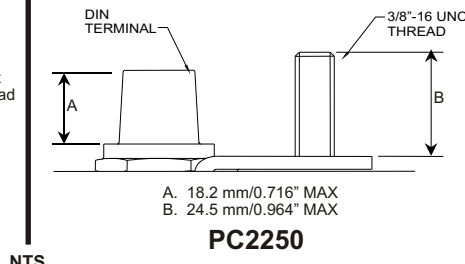
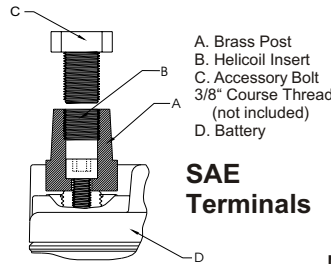
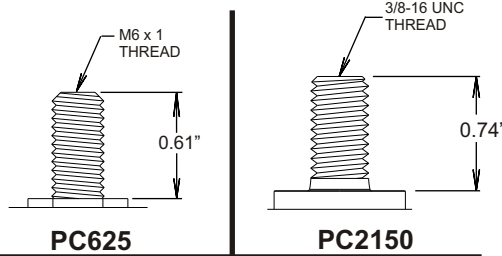
- EXPOSING BATTERY TO GASOLINE OR DIESEL FUEL
- REMOVING THE LABELED COVER
- REMOVING OR DESTROYING THE BATTERY'S DATE CODE

DO NOT SHORT CIRCUIT YOUR ODYSSEY'S TERMINALS! Remove any metallic items such as watches, bracelets and other personal jewelry to ensure safe installation.

All Other Models



NOTE: PC535 Bolt installation is in horizontal orientation.



- Using proper procedures as recommended by the manufacturer, carefully disconnect the cables from your old battery and remove it from the vehicle. Return the spent battery to the dealer for proper recycling.
- Inspect existing battery cables for corrosion, acid damage or insulation deterioration. Replace if deterioration is present.
- Position your ODYSSEY in the battery holder and fasten firmly to the vehicle.
- Connect the positive cable from your ignition to the Positive (+) terminal.
- Connect the negative cable from your engine or chassis to the Negative (-) terminal.
- Torque the bolt, screw or nut per the specification noted in table. If you're using the Accessory Bolt (C), hold the Brass Post (A) with vise grips and counter torque. Do the same with GM 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!**

Model	Pulse Hot Cranking Amps (5 Sec)	CCA	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Torque Spec. In-lbs (Nm Max)	Internal Resistance (mΩ)	Short Circuit Current	Nominal Constant Current Capacity to 1.67Vpc @ 25°C/77°F:									
										20-Hour	10-Hour	8-Hour	5-Hour	2-Hour	1-Hour	30-Min.			
PC310	310	100	5.43 (138.0)	3.39 (86.0)	3.98 (101.0)	5.9 (2.7)	8.9 (1.0)	27.1	455A	8	7	7.6	7.2	6.5	6	5.4			
PC535	535	200	6.70 (170.2)	3.90 (99.1)	6.125 (155.6)	12.0 (5.4)	40 (4.5)	8	1000A	14.8	13	14	13	12	11	10			
PC545	545	185	7.00 (177.8)	3.37 (86.6)	5.17 (131.3)	12.6 (5.7)	50 (5.6)	10	1200A	14	12	13	13	11	10	9			
PC625	625	265	6.70 (170.2)	3.90 (99.1)	6.89 (175.0)	13.2 (6.0)	40 (4.5)	7	1800A	18	17	17	16	15	14	12			
PC680	680	220	7.27 (184.7)	3.11 (79.0)	6.67 (169.4)	15.4 (7.0)	50 (5.6)	7	1800A	17	16	16	15	14	13	12			
PC925	925	380	6.64 (168.6)	7.05 (179.0)	5.04 (128.0)	26.0 (11.8)	60 (6.8)	5	2400A	28	27	26	25	23	22	20			
PC1200	1200	550	7.87 (199.9)	6.66 (169.1)	6.80 (172.7)	38.2 (17.4)	60 (6.8)	4.5	2600A	44	40	40	39	35	32	28			
PC1700	1700	875	13.02 (330.7)	6.62 (168.2)	6.93 (176.0)	60.9 (27.6)	60 (6.8)	3.5	3500A	68	65	64	62	58	54	48			
PC2150	2150	1090	13.00 (330.2)	6.80 (172.7)	9.40 (238.8)	75.0 (34.1)	150-200 (16.9-22.6)	2.2	5000A	100	92	90	85	80	73	60			
PC2250	2250	1225	11.26 (286.0)	10.59 (269.0)	8.19 (208.0)	86.0 (39.0)	100 (11.0) For 3/8" Stud only	2.1	5000A	126	114	110	103	90	80	69			

Constant voltage portable charger parameters:

- (A) Standby, per 12V battery
- (B) Cyclic, per 12V battery (16-hour recharge)

Typical deep-cycle life at 25°C/77°F at a 5-hour rate 400 cycles at 80% DOD

Typical service life at 25°C/77°F
Medium to heavy duty usage - 5+ years
Light duty usage - 5-8+ years

Design characteristics

- Battery type
- Plate Design
- Electrolyte/specific gravity
- Safety Vent

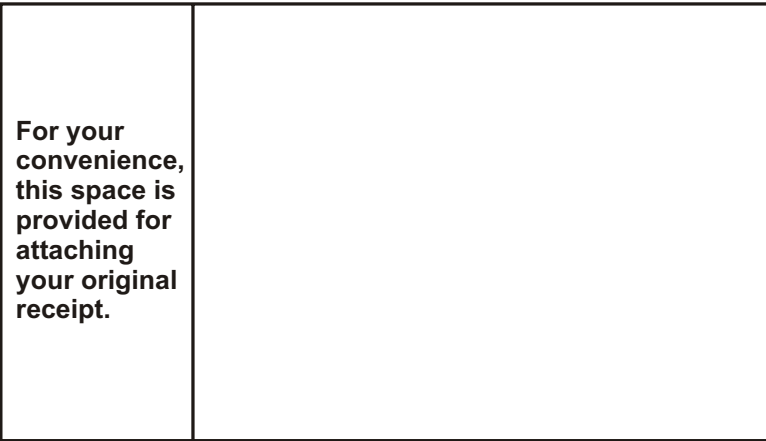
Sealed dry cell valve regulated lead acid (VRLA) gas recombination technology

High purity lead/tin grid, starved electrolyte

Sulfuric acid: 1.310 ±0.005 at 25°C/77°F, fully charged

Self-Resealing Bunsen valve per cell

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



WARRANTY: FULL 2-YEAR & 3-YEAR REPLACEMENT

ODYSSEY Batteries of EnerSys Energy Products Inc. (seller), warrants its batteries to be free of defects in material and workmanship. This warranty is effective for 2 years in powersports applications and 3 years in automotive/commercial/industrial applications from the date of purchase with original receipt; 2 and 3 years respectively from manufacturer's shipping date if no original receipt is available; or within 400 cycles to 80% depth of discharge, whichever occurs first. Within the warranty period, the battery will be replaced free of charge if adjustment is necessary due to defect in material or workmanship (not merely discharged). Simply return the battery to any authorized ODYSSEY dealer with the original receipt for a replacement. This warranty may vary from country to country; contact your appropriate sales region for confirmation.

ODYSSEY CONVENTIONAL GENERAL PROVISIONS

A. Seller has no obligation under the limited warranty set forth above in the event the battery is damaged or destroyed as a result of:
Willful abuse or 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.
Failure to properly install the battery or lack of metal jacket for high temperature or vibration applications.
Normal deterioration in the electrical qualities or the acceleration of such deterioration due to conditions that accelerate such deterioration.
If the battery is used for any 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.

B. To obtain warranty service:

- Return battery to any authorized ODYSSEY wholesaler or dealer.
- If the battery is determined to be defective for material or workmanship under terms of the warranty, it will be replaced.

THIS LIMITED WARRANTY IS IN LIEU OF, AND SELLER DISCLAIMS AND EXCLUDES, ALL OTHER WARRANTIES, STATUTORY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE THAT WOULD OTHERWISE BE IN EFFECT FOR LONGER THAN THE EFFECTIVE WARRANTY PERIOD. SELLER'S EXCLUSIVE LIABILITY FOR BREACH OF WARRANTY SHALL BE TO REPLACE THE BATTERY WITHIN THE EFFECTIVE WARRANTY PERIOD. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY LOSS OR DAMAGES OF ANY OTHER KIND, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, SPECIAL OR OTHERWISE NOR SHALL SELLER BE LIABLE FOR ANY REMOVAL OR INSTALLATION EXPENSE, OR THE LOSS OF TIME OR PROFITS.

Some countries and/or states do not allow limitations on how long an implied warranty lasts or the exclusion or the limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights which may vary from country to country and/or state to state.

MAINTENANCE

ODYSSEY is very different from standard liquid-acid batteries that are openly vented. ODYSSEY is and operates as a sealed battery, recycling all gases internally. There is no corrosion of the positive terminal or corrosion to the surrounding area. ODYSSEY is 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.

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	100%
12.50 Volts	75%
12.18 Volts	50%
11.88 Volts	25%

Powersport Vehicles - have limited charging systems. 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 a independent float charger used. Low power 2.0 amp chargers for storage charge will keep a fully charged battery fully charged but cannot recharge if ODYSSEY 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. Special chargers as listed on www.odysseyfactory.com under "Approved Chargers" specifically designed for ODYSSEY are required for routine deep discharge applications. They provide the 105-108% recharge and then switch to storage charge.

To fully charge a PC2150, 20 amps minimum constant voltage is required with charger voltage within the range of 14.1 V 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.

ODYSSEY Model	Charge time for 100% discharged battery (11.5 volts)	
	10-amp charger	20-amp charger
PC310	48 minutes	24 minutes
PC535	1 1/2 hours	45 minutes
PC545	2 hours	45 minutes
PC625	2 hours	1 hour
PC680	2 hours	1 hour
PC925	2 1/2 hours	1 1/4 hours
PC1200	4 hours	2 hours
PC1700	7 hours	3 1/2 hours
PC2150	9 hours	4.5 hours
PC2250	12 hours	6 hours

WINTER STORAGE

ODYSSEY 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. ODYSSEY cannot freeze down to -40°C or -40°F so it can be left in the vehicle. It can be stored for 2 years or more below 77°F.

Regional Sales

EnerSys Energy Products Inc.
617 North Ridgeview Drive
Warrensburg, MO 64093-9301
Tel: +1-660-429-2165
Fax: +1-660-429-1758

EnerSys Limited
Rake Lane
Clifton Junction
Manchester M27 8LR UK
Tel: +44 (0) 161 727 3951
Fax: +44 (0) 161 727 3949
Email:
odyssey.sales@uk.enersysinc.com

Energys Australia Pty Ltd
12 Jellico Drive
Scoresby, Melbourne,
Victoria, Australia 3179
Tel: +61 (0)39 763 7083
Fax: +61 (0)39 763 9751

Odyssey product manufactured at the following locations:

EnerSys Energy Products Inc.
617 North Ridgeview Drive
Warrensburg, MO 64093-9301

EnerSys Limited
Stephenson Street
Newport, Gwent NP19 4XJ
South Wales, UK

For information visit us on the web at www.odysseyfactory.com or www.enersys.com

The information in this publication is accurate as of its publication date. Specifications are subject to change without notice.

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Manufacturers of CYCLON®, GENESIS®, SBS and ODYSSEY® batteries.

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



NEVER PLACE USED BATTERIES IN YOUR REGULAR TRASH!

2602-0232, Rev. 1; Artwork 2602-0233, Rev. 8; February, 2005

ODYSSEY

THE EXTREME BATTERY

Owner's Manual

To get maximum life and performance from your new ODYSSEY battery, please follow the instructions provided inside this pamphlet.