



P1D3 Electric Golf Trolley
Model: P1D3
User Manual



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Congratulations on your purchase of the NovaCaddy P1D3 Electric Golf Trolley. The P1D3 Electric Golf Trolley is one of the lightest on the market, while keeping impressive power and plentiful battery life. To ensure operate the golf trolley properly, please read this instruction before using your P1D3.

1. Packing List and Parts Glossary

Standard Parts

- 1 x Caddy
- 2 x Rear Wheels
- 1 x Battery Pack (Battery, Bag, Leads)
- 1 x Battery Charger
- 1 x Tool kit
- User Guide
- Extras may be included as per the advert statement.

Optional Accessories

- Cup Holder
- Umbrella Holder
- Scorecard holder
- Carrying bag



Pic 1

- | | |
|------------------------|--------------------------|
| 1. T-Handle with LCD | 7. Front Wheel |
| 2. Upper Folding Hinge | 8. Lower Bag Support |
| 3. Motor/Gearbox Ass. | 9. Lower Bag Strap |
| 4. Rear Wheels | 10. Middle Folding Hinge |
| 5. Battery Plug | 11. Upper Bag Strap |
| 6. Battery Tray | 12. Upper Bag Holder |

2. Assembly Instructions

1. Unpack all items carefully and check everything has been included. Some extras may be in small packages so do not throw anything away until all has been checked.

2. Place the frame structure (one piece) on soft and clean floor and ensure that you do not scratch the frame on a hard surface.

3. Attach the wheels to the axles by pushing the wheel locking button on the outside of the wheel and inserting the axle extension into the wheel. **Make sure to keep the locking button on the outside of the wheel pushed in during this process, in order to enable the axle extensions, including the two pins, to be inserted all the way into the wheel.** If not locked in, the wheel will not be connected to the clutch and will not be propelled!!! Test the lock by trying to pull the wheel out. To disassemble the wheels proceed in reverse order. If you feel the wheels are not working then take them off – switch the power on and if the axle rotates you will know you have not pushed the wheels all the way in.

Note: This trolley has a specific right (R) and a left (L) wheel, as seen from behind in driving direction. Please make sure that the wheels are assembled on the correct side, otherwise the clutches will not engage.



Pic 2



Pic 3



Pic 4

4. To Folding the cart, pull up the Upper Folding Hinge to release the lock (Pic 5), push Upper Frame down (Pic 6). Pull up the Middle Folding Hinge to release the lock (Pic 7), push Lower Frame down (Pic 8), laydown frames (Pic 9). Proceed in reverse for folding the cart.



Pic 5



Pic 6



Pic 7



Pic 8



Pic 9

5. Place battery pack on battery tray and fasten Velcro strap around battery tightly. Insert battery plug into caddy outlet. Pic 10



Battery Plug

Pic 10

6. Install clamp style Accessories Station on frame and attach Scorecard Holder, Umbrella Holder to Accessories Station. Attach Beverage Holder to frame. Pic 11-15



Pic 11



Pic 12



Pic 13



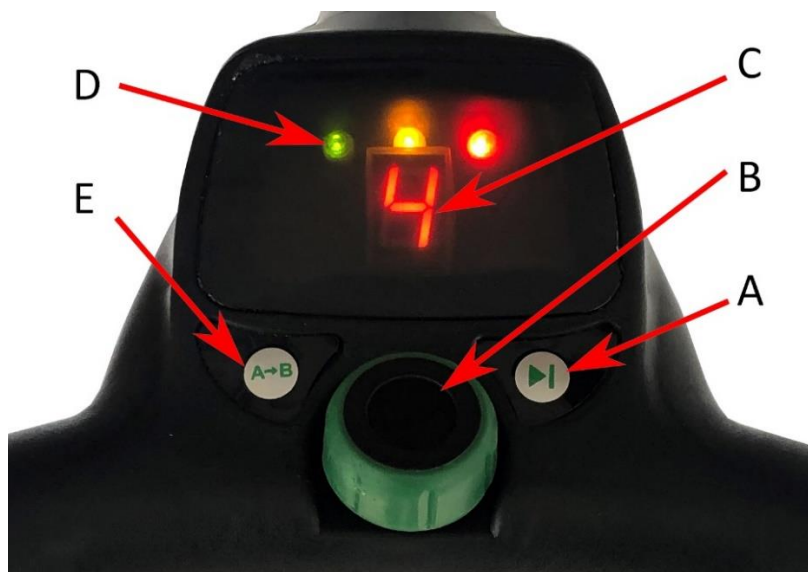
Pic 14



Pic 15

3. Operating Instructions

3.1. T-Handle Function



- A. Dual-Function, Power/Stop-Go
- B. Speed Control Dial
- C. LED Digital Display
- D. Battery Level
(Green: High, Yellow: Mid, Red: Low)
- E. Timer Cruise

Pic 14

3.1.1. Power ON/OFF.

The Dual Function (Power/Stop-Go Combo button) controls the caddy's power supply. Press and hold for 2-5 seconds in order to turn the caddy ON or OFF. LED Battery/Power indicator will light up when power is ON.

3.1.2. Power Level.

- H (High power): Green Color
- MID (Mid power): Yellow Color
- LOW (Low power): Red Color

3.1.3. Timer Function (Distance function)

The (A->B) Timer button works as 10, 20, 30 Seconds moving control (about 10, 20, 30 yard/meter distance) Increase 10 seconds (10 yards) each press. 30 seconds (30 yards) max. You can stop the Timer program by press Power/Stop-Go combo button on handle or Stop button on remote handset anytime.

3.1.4. Stop-Go Button and Brake Function:

One brief press Power/Stop-Go Combo button in order to Pause or Run the trolley. Select the speed to match your pace. The cart will remember its last setting when you stop, and travel at that speed automatically when you start again, except when you change the speed knob position.

3.1.5. LED Digital Display

Digital display shows the speed level and Timer Function. The speed level is from 1 to 9. Timer 10M/20M/30M function shows as Program a/b/c.

3.1.6. Speed controller

Scrolling of the Rheostat Speed Control knob lets you choose your preferred speed to suit your space perfectly, and the digital display will show the preferred speed. The speed level is from 1 to 9.

3.2. Additional Function

3.3.1. Tracking Adjustment:

The tracking can be adjusted via the adjustment mechanism mounted to the front wheel. Turning adjustment thumb wheel DOWN (left and/or right side of the front wheel) to adjust the alignment to RIGHT direction, tuning the thumb wheel UP to adjust the alignment to LEFT direction.



Pic 15

3.3.2. Free Wheel Function:

The caddy can be easily operated without power. Whenever you pull this cart, wheels will disengage from motor/gearbox, and work like a regular manual pull cart without extra resistance from motor.

3.3.3. USB Port:

USB port is located at back of handle. Use cart battery to charge Cell Phone, GPS, USB speaker or any other USB device.

3.4. Test Caddy

Test caddy power supply by press POWER button on handle. All power volume lights (Red, Yellow, Green) should come on and caddy should be operable by control panel on the handle.

Note: Familiarize yourself with the handle control functions.

Before you start operating the caddy. **NOW: Please read and follow the operating instructions BEFORE you operate the caddy.**

3.4.1. Test Environment

First, make sure that you perform your first test of the caddy in a wide and safe area, free of obstructions or valuables, such as people, parked automobiles, flowing traffic, water body (river, swimming pool, pond, etc.), steep hills, cliffs or similar hazards.

3.4.2. Manual Control Operation

Turn the main power on by press POWER button on handle. The caddy movement is controlled through the rheostat control knob on the middle bottom of the handle. Turn the knob clockwise will control the forward movement of the caddy. In order to slow down the caddy, turn the knob counterclockwise. Push the GO/STOP button any time to pause or replay the caddy. Turn the knob dead end of counterclockwise to stop the caddy completely. Test 10, 20, 30 seconds timer function.

3.4.3. Change Direction

Use your hand to guide the cart to different direction. Whenever you pull the cart, you are operating at freewheeling mode, wheels will disengage from motor/gearbox, and work like a regular manual pull cart without extra resistance from motor.

3.5. Battery Charging and Maintenance

3.5.1. Safety Instructions for Battery Use, Store and Charging

Please OBEY These Precautions for Battery use and Charging

3.5.1.1. Please do not charge the battery in a sealed container. It is recommended to charge the battery in a well ventilated area.

3.5.1.2. Please do not charge the battery near a heater, or where heat accumulation may

occur or in direct sunshine.

3.5.1.3. In order to prolong the service life of the battery, AVOID full discharge.

3.5.1.4. DO NOT overcharge the battery.

3.5.1.5. Do not leave the battery on the charger for extended periods of time.

3.5.1.6. The red color battery's pole stands for positive, and the black color for negative. In case of battery replacement please reconnect the poles of battery correctly. Otherwise your caddy could suffer severe damage.

3.5.1.7. Don't short circuit (careful when use metal tools)

3.5.1.8. Keep in a cool, dry, well ventilated area, below 120 degrees F.

3.5.1.9. Please do not disassemble the battery or throw it into a fire. **EXPLOSION!!!**

3.5.1.10. Never touch the electric poles of the battery!! Safety hazard!!

3.5.2. Battery Charging Instructions for Lithium Batteries

3.5.2.1. Do not expose the battery to excessive heat or direct sun for long periods of time.

3.5.2.2. Do not store in hot areas (car trunks, garages, etc.). Lithium batteries do not like high temperatures.

3.5.2.3. Do not leave the battery on the charger for extended periods of time. Do not overcharge the battery. Overcharging the battery will void the warranty.

3.5.2.4. The lithium batteries should be stored at a middle charge state during longer periods of inactivity. The ideal charge state is 40-50% of capacity.

3.5.2.5. To start charging Lithium battery, connect the battery cable plug to the charger and then plug the charger into an electrical outlet. It regularly take about 3-6 hours to fully charge the 14V20A lithium battery after one 18 holes game.

3.5.2.6. During the charging cycle the LED on the charger will show a red steady light (or blink red/green light). Once the battery is fully charged, charger's indicator will turn into a steady green light.

3.5.2.7. Do never drain it. Give it half charging after your last game of season. Store it in door, dry and cold none frozen area. Don't put it on concrete or metal surface. Disconnect from equipment and charger. It will be good for long term till next golf season.

3.5.2.8. Never expose or throw the Lithium battery into open fire. **EXTREME FIRE HAZARD**

Recommendations:

Similar to a mechanical device that wears out faster with heavy use, so also does the depth of discharge (DoD) determine the cycle count to Lithium battery. The shorter the discharge (low DoD), the longer the Lithium battery will last. **AVOID full discharges** and charge the battery more often between uses. Please always charge the battery after you play each game.

3.5.3. Battery Charging Instructions for SLA (Sealed Lead-Acid) Batteries

3.5.3.1. Please do not charge the battery in a sealed container or in upside down position. It is recommended to charge the battery at a well ventilated area.

3.5.3.2. Connect the battery cable plug to the charger and then plug the charger into an electrical outlet.

3.5.3.3. During the charging cycle the LED on the charger will show a red steady light (or blink red/green light). Once the charging cycle is complete, the red light will turn into a steady green light.

3.5.3.4. The charging cycle can last up to 12 hours depending on the level of discharge.

3.5.3.5. Normally the battery will hold its charge for several months, and it does not have a “memory effect”, and therefore can be recharged at any discharge level. It is recommended to not fully discharge the battery, as this will shorten battery life drastically. The battery has a normal lifespan of approximately 100-150 charges, depending on charging frequency, storage conditions, and time and discharge history, which could reduce this lifetime.

3.5.3.5. In order to prolong the service life of the battery, please **AVOID full discharge**, charge the battery after every use and **KEEP THE BATTERY FULLY CHARGED**. When the battery is not in use for an extended period of time, it is recommended to charge the battery once a month.

3.5.3.6. Before storing a battery for extended periods of time you must fully charge it.

3.5.3.7. Do not leave the battery on the charger for extended periods of time. Do not overcharge the battery.

DO NOT store a discharged battery or as it may become unusable. Replacement batteries are available from NovaCaddy or your authorized dealer.

Recommendations and Maintenance

Fully charge the battery for approximately 5-9 hours before the first use.

Do not leave the battery on the charger. Remove it from the charger after charge is Completed.

The battery will take approximately 2-3 rounds and charging cycles before it reaches its full operating potential. During the first couple of rounds it might still be below its optimal power. Always keep your battery fully charged before another game.

Never keep your battery connected to the grid during prolonged power outages. It might be irreversibly damaged.

DO NOT fully discharge the battery by “overplaying” it. It is recommended to recharge the battery after every 18 holes.

Do not strike lead acid battery terminals with metallic tools since this can contribute to sparks and cause subsequent explosions.

Keep the tops of your batteries clean and check that cables are tight. Do not tighten or remove cables while charging or discharging. Any spark around batteries can cause a hydrogen explosion inside, and ruin one of the cells, and you.

Normally the battery will hold its charge for several months, and it does not have a “memory effect” and therefore can be recharged at any discharge level. It is not recommended to fully discharge the battery, as this will shorten battery life. The battery lifespan is depending on charging frequency, storage conditions and discharge history. Before storing a battery for extended periods of time you must fully charge it. **DO NOT** store an empty battery or else it might become unusable. Replacement batteries are available from your authorized NovaCaddy dealer, or from NovaCaddy directly. You can also order online at:

<http://www.novacaddy.com>

***Life of sealed lead acid and any other batteries is dependent on a variety of factors, other than purely the number of charges, including but not limited to, frequency between charges, duration of charge, level of drainage, idle time, operating temperature, storage conditions and duration and overall shelf time.**

4. Important Safety Instructions

- Be alert and act responsibly at all time while operating your caddy, just as you would when operating a riding cart, or motor vehicle. We absolutely do not recommend the consumption of alcohol or any other impairing substances while operating our caddies.
- **Also, please make sure to always turn the power off and secure the caddy when you park and leave the unit for any reason, either on or off course.**
- With its optimized balance and straight front wheel the caddy has extraordinarily narrow and responsive turning and maneuvering abilities. However, it sometimes tends to react to severe uneven weight distribution of its load or steep slope variations and follows the slope of the golf course. Therefore, please make sure the weight in your bag is distributed evenly (move heavy balls and items to both sides, or shift the bag on the caddy).

5. Electronic Systems

- **Safety Protection:** When the temperature of the controller box reaches its upper limit in case of an overload, it will automatically shut down to cool off. Give the caddy a short time to cool down, then you can run it again. You can still use free-wheeling mode to pull the cart and keep your game run.
- **Microprocessor Controlled Electronics System:** When you connect the battery, the electronics system will automatically run through a start-up routine. Then you can press the main power on the handle turn the power ON. The battery level indicator lights will show you the battery level. All lights ON (Green + Yellow + Red) means highest battery level. Both of Yellow and Red on means middle battery level. Only Red on means low battery level.
- **Important:** The electronics controller box contains no user serviceable parts. Therefore, it is sealed to reduce the risk of moisture entering and impacting the electronic system. Breaking this seal increased the risk of damaging the electronics and decreasing the reliability of your caddy. DO NOT attempt to open the controller case.
- **Battery Operation and Care:** Follow battery charge and maintenance instructions at section 3.5.

Note: NovaCaddy reserves the right to modify/upgrade any components during a model year, so illustrations on our website, brochures and manuals may slightly vary from the actual product shipped. However, NovaCaddy guarantees that specifications and functionality will be always equal to or better from the advertised product. Promotional accessories may also vary from illustrations shown on our website and other publications.

6. General Maintenance

The steps below will ensure that you get a prolonged and reliable life out of your golf trolley.

- The Caddy has been designed so that the user can concentrate on playing golf, whilst the caddy does the work of carrying your bag. In order to keep your golf trolley looking at its best, we advise that you wipe any mud or grass from the frame, wheels and chassis after every round with a damp cloth or paper towel.
- **Do NOT** use any high-pressure jet washers to prevent moisture entering the electronic systems, motors or gearboxes of the caddy.
- Remove the rear wheels every few weeks and remove any debris that might cause the wheels to drag. You might also apply some lubricant, such WD-40 to keep moving parts smooth.

- Inspect your cart at least once a year thoroughly, please contact our customer service if there are any problem.
- Always disconnect the battery when you store the caddy, and always reassemble your caddy before reconnecting the battery. If you are not planning to play for at least a month, store the battery in a cool and dry place (not on concrete floor or metal surface) **DO NEVER leave battery on charger.**

All of these recommendations will help keep your trolley in top condition and ensure that it remains your reliable partner, both on and off the course.

7. Technical Specification

Control	9 speeds forward. Freewheeling mode as regular pull cart Timed advance function: 10, 20 and 30 meter/yard Automatic forward cruise
Motor	250W 12V DC motor
Drive Train	Rear Wheel Drive, Dual Stainless Steel Gears & Gear boxes (17:1 ratio)
Speed	Max. 8km/hr (5 MPH), 9 speed adjustable
Distance/Range per battery charge	20km (12.5 miles)
Climbing Capability	25 degree
Max. Load	40kg (88lb)
Battery and Charger	Power: 14V20Ah Lithium or 12V36Ah SLA battery Charge AC adapter: 110~240V, 50/60Hz
Weight	9.5kg (21lb) without battery 12kg (26.5lb) with Lithium Battery 19 kg (42lb) with SLA battery
Dimensions	112 x 100 x 60 cm (44 x 39 x 24 inch), Full Size 82 x 53 x 32 cm (32 x 21 x 12 inch), Folded Size
Materials	High quality aluminum alloy frame, dual stainless steel gear box, durable polymer component
Wheels	Airless, rubberized tread
Color	White

8. Trouble Shooting

SYMPTOM	ACTION
Caddy does not have power	<ul style="list-style-type: none"> • Make Sure battery is plugged correctly onto cart plug • Check battery charge level • Check all wiring connections and plugs • Depress and hold down power button for at least 5 seconds • Check main control cable at frame hinge
Motor is running, but wheels don't turn	<ul style="list-style-type: none"> • Check if wheels are secured to axle by split pins • Check split pins on axle • Check wheel clutches • Check Right and Left rear wheel at correct side
Trolley pulls to left or right	<ul style="list-style-type: none"> • Check and make sure the weight in your golf bag is distributed evenly • Check if wheels is fitted over the clutch and latched to axle • Check if clutch pin is visible at both sides of the axle • Check if the clutch turns freely in one direction only • Do Tracking Adjustment if need ref. To 3.3.1.
Battery lacks power	<ul style="list-style-type: none"> • Check cable connections • Check charger function • Give a new full charge • Ensure you have not completely discharged the battery
Problems attaching wheels	<ul style="list-style-type: none"> • Make sure you are holding the spring clip down • Sand and smooth axle with Emery cloth to remove excess paint or burrs • Remove outer cap and adjust quick release catch

9. Frequently Asked Questions

Question : When I connect the battery plug to caddy and turn the main switch on, the battery indicator lights do not come on.

A:

- Make sure battery is recharged.
- Check the battery lead cable
- Open the back of the T-handle with a screwdriver. Make sure the T-handle line plug is in the right position on the handle electronic board. It will happen when the line of the caddy is not connected at correct position in security.

Question: The caddy's main power is on, and all battery indicator lights are on, but the caddy does not.

A: Please check the motor connectors on the controller box and if connector pins are in the correct

position.

Question: The trolley stops by itself.

A: Please check the battery charge. Also the controller box has a shut down function, if the battery is too low or the controller is overheating.

Question: The caddy tracks to one side.

A:

- Check golf bag weight balance. Make sure that the weight distribution of your golf bag is balanced on the caddy.
- Slope, deep or wet grass may make different friction on different wheel to cause caddy run to one side.
- Caddy need to do tracking adjustment, ref to section 3.3.1

Question: Where can I purchase spars parts or accessories for my caddy?

A: You can purchase spare parts and accessories from our authentic dealer or order online at: <http://www.novacaddy.com>

10. One-Year Limited Warranty

Your NovaCaddy product is warranted to be free of defects in materials and workmanship for one year after the date of purchase. In the event of a defect under this warranty, we will repair the product. This warranty does not cover damages caused by misuse, improper handling, installation, or maintenance provided by someone other than a NovaCaddy authorized service department.

Any return made under this warranty must be accompanied by the items listed below:

- 1) Contact us to get an RMA (Return Material Authorization) number, before send it back
- 2) Name and address for product return
- 3) An explain of the defect
- 4) RMA# or proof of Date Purchased
- 5) Product should be well packed in a sturdy outside shipping carton, to prevent damage in transit, to the address listed below:

IN Canada and USA Send to:

NovaCaddy Golf Products
62 Raymerville Dr.
Markham, ON L3P4J5
Canada
TI: +1 905 209 9937
Email: service.novacaddy@oneontarget.com

For service, spare parts and accessories supply, please visit our website:
<http://www.novacaddy.com>