Passport™ Duo 400W Dual AC/DC Touch Charger

Instruction Manual | Bedienungsanleitung | Manuel d'utilisation | Manuale di Istruzioni

MULTI-CHEM USB

ENGLISH

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit horizonhobby.com and click on the support tab for this product.

MEANING OF SPECIAL LANGUAGE

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

Age Recommendation: Not for children under 14 years. This is not a toy.

NOTICE: This appliance is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

CHARGING WARNINGS

WARNING: Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and property damage.

- **NEVER LEAVE CHARGING BATTERIES UNATTENDED.**
- **NEVER CHARGE BATTERIES OVERNIGHT.**
- Never attempt to charge dead, damaged or wet battery packs.
- Never attempt to charge a battery pack containing different types of batteries.
- Never allow children under 14 years of age to charge battery packs.
- Never charge batteries in extremely hot or cold places or place in direct sunlight.
- Never charge a battery if the cable has been pinched or shorted.
- Never connect the charger if the power cable has been pinched or shorted.
- Never connect the charger to an automobile 12V battery while the vehicle is running.
- Never attempt to dismantle the charger or use a damaged charger.
- Never attach your charger to both an AC and a DC power source at the same time.
- Never connect the input jack (DC input) to AC power.
- Always use only rechargeable batteries designed for use with this type of charger.
- Always inspect the battery before charging.
- Always keep the battery away from any material that could be affected by heat.
- Always monitor the charging area and have a fire extinguisher available at all times.
- Always end the charging process if the battery becomes hot to the touch or starts to change form (swell) during the charge process.
- Always connect the charge cable to the charger first, then connect the battery to avoid short circuit between the charge leads. Reverse the sequence when disconnecting.
- Always connect the positive red leads (+) and negative black leads (–) correctly.
- Always disconnect the battery after charging, and let the charger cool between charges.
- Always charge in a well-ventilated area.
- Always terminate all processes and contact Horizon Hobby if the product malfunctions.

WARNING: Never leave charger unattended, exceed maximum charge rate, charge with non-approved batteries or charge batteries in the wrong mode. Failure to comply may result in excessive heat, fire and serious injury.

CAUTION: Always ensure the battery you are charging meets the specifications of this charger and that the charger settings are correct. Not doing so can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage. Please contact Horizon Hobby or an authorized retailer with compatibility questions.

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INCLUDED ITEMS

(2) Banana plug to EC3™ battery connector (DYNC0066)
AC power cord (one region—US, EU, AU or UK)
(2) JST_XH balance adapter (DYN5032)

OPTIONAL ITEMS

DC power cord (DYNC1103)
Banana to Traxxas® insulated charge adapter: male (DYNC0054)
Charger lead with receiver connector (DYNC0033)
Banana to Deans insulated charge adapter: male (DYNC0053)
LiPo Charge Protection Bag, Small (DYN1400)
LiPo Charge Protection Bag, Large (DYN1405)
Temperature Sensor (DYN5033)

SPECIFICATIONS

Input Voltage	100-240V AC; 11-18V DC
Charging Capability	1–6S Li-Po/Li-Ion/Li-Fe; 1–10C Ni-Cd/Ni-MH; 2–24V Pb
Battery Capacities	50–10000 mAh
Charge Current	0.01–10.0A (in 0.1A increments/200W max per channel)
Discharge Current	0.01–5A (in 0.1A increments/200W max per channel)
Operating Temperature	0°C to + 40°C
Charging Mode	Ni-Cd/Ni-MH: Peak; Li-Po/Li-Ion/Li-Fe/Pb: CC/CV
Protection	Short-circuit, over-current, reverse polarity, low input voltage, over-temperature

GETTING STARTED

Using an AC Power Source:

1. Ensure the charger is powered OFF.
2. Connect the AC power cord **(D)** to the AC power source.
3. Power ON the charger with the Power Switch **(A)**.
4. When the charger is powered ON, a message will appear on the **LCD Touch Screens (E,F)**.

Using a DC Power Source:

1. Connect the DC power cord to the charger DC Power Input Port **(C)**
2. Connect the DC alligator clips to the DC power source.
3. Power ON the charger with the Power Switch **(A)**.
4. When the charger is powered ON, a message will appear on the **LCD Touch Screens (E,F)**.

Connecting the Battery to the Charger:

CAUTION: Always power ON the charger before connecting a battery, or damage to the charger and the battery can result.

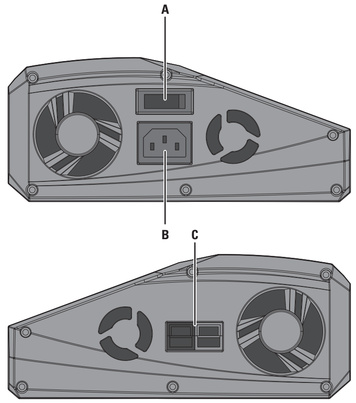
1. With charger powered on, select charging settings.
2. Connect the battery to the charger.
3. Start battery charging.

CAUTION: Before charging, always ensure you have chosen the correct battery chemistry type for the battery you are charging.

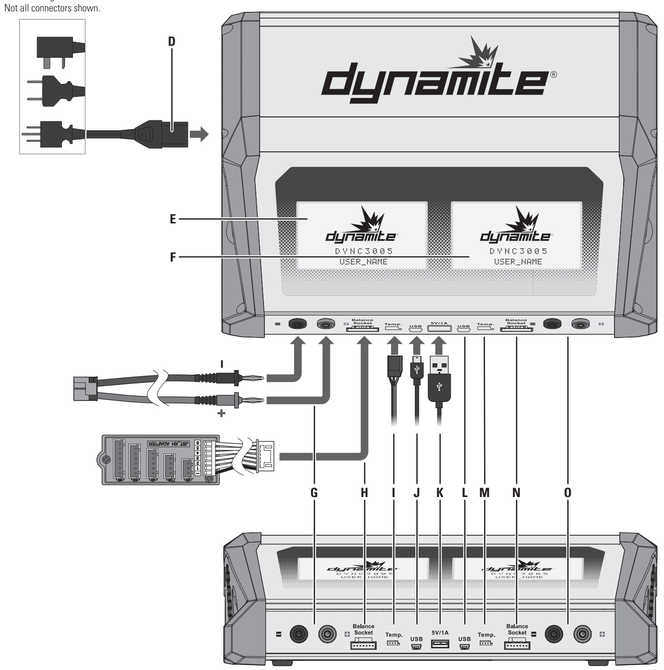
PROGRAMMING QUICK GUIDE

1. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens.
2. Press the action at the bottom of the **LCD Touch Screen** to enter that menu.
3. Press a parameter to highlight that parameter.
4. Press the **Up** and **Down Arrows** to edit the parameter.
5. Press **Select** to save the parameter.
6. If there is more than one screen of parameters, press the top right corner of the **LCD Touch Screen** to scroll through the parameter screens.
7. Press **Back** to return to the main menu screens.

A. Power Switch
B. AC Power Input Port
C. DC Power Input Port
D. AC Power Cord
E. Charger 1- LCD Screen
F. Charger 2- LCD Screen
G. Charger 1- Power Output Ports
H. Charger 1- Balance Board Port
I. Charger 1- Temperature Sensor Port
J. Charger 1- Micro USB Port (Software updates ONLY; do not use for charging)
K. 2.1A USB Power Output Port
L. Charger 2- Micro USB Port (Software updates ONLY; do not use for charging)
M. Charger 2- Temperature Sensor Port
N. Charger 2- Balance Board Port
O. Charger 2- Power Output Ports



Not to scale.
Not all wiring shown.
Not all connectors shown.



VOLTAGE MUST BE SET TO THE CORRECT VALUE BEFORE THE CHARGER IS POWERED ON.

OPERATING YOUR CHARGER

1 - SELF TEST AND PROGRAM SELECT SCREENS

When the charger is powered ON, there is a series of self tests and the screen will show the charger brand name and model number.

CAUTION: If at any time during the charge process the battery pack becomes hot or begins to puff disconnect the battery immediately and discontinue the charge process as batteries can cause fire, collateral damage and injuries.

CAUTION: Using a charge rate that is not compatible with the battery capacity may result in damage or malfunction of the charger or battery.

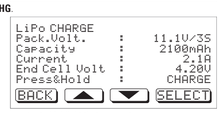
CAUTION: The Lithium charge program menus are to be used ONLY for the charging and discharging of Lithium battery packs. Charging other battery types using the Lithium charge programs will damage the battery or the charger.

Only Li-Po is shown in the following three sections. Li-Ion/Li-Fe/Li-HV menus differ ONLY in Cell and Pack Voltage values.

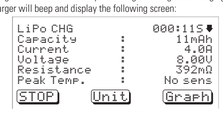
2 - LITHIUM (LI-PO/LI-FE/LI-ION/LI-HV) CHARGING

1. Connect the JST_XH balance adapter to the **Balance Circuit Adapter Board Connector (6)**.
2. Connect the battery connector to the device connector.
3. Connect the balance connector of the battery to the JST_XH balance adapter.
4. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe/Li-HV.

5. Press **CHG**.

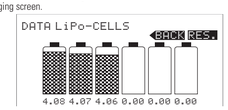


6. Press a parameter to highlight that parameter.
7. Press the **Up** and **Down Arrows** to edit the parameter.
8. Press **Select** to save the parameter.
9. Once the parameters are at the desired settings, press and hold **CHARGE**.
10. The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:

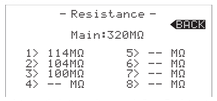


11. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.

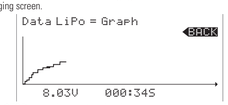
12. Press **Unit** to see the voltages for each cell. Press **Back** to return to the charging screen.



13. Press **RES.** to see the cell resistance screen. Press **Back** to return to the voltage screen.

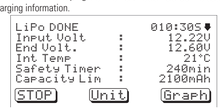


14. Press **Graph** to see the battery voltage graph. Press **Back** to return to the charging screen.



15. Press **STOP** at any time to stop charging.
16. When charging is complete, the charger will sound a series of beeps and display the following screen:

17. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.

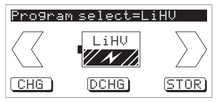


18. Disconnect the battery from the charger.

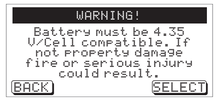
2A- LITHIUM HIGH VOLTAGE

CAUTION: Only use 4.35V capable Li-Po batteries when using the Li-HV charge mode. Charging other Li-Po batteries in this mode can lead to property damage, fire, or serious injury.

1. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Li-HV.



2. Press **CHG**.
3. The following **WARNING** screen appears. You must be sure you are using High Voltage cells capable of being charged to 4.35 Volts.

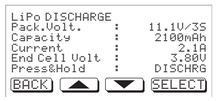


4. Press **Select** to continue to charging.
5. Follow Lithium (Li-Po/Li-Fe/Li-Ion/LI-HV) Charging, Dishcharging and Storage insturctions
6. Press **Back** to exit warning and choose another charging method.

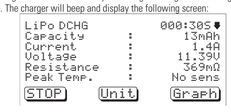
3 - LITHIUM DISCHARGING

1. Connect the JST_XH balance adapter to the **Balance Circuit Adapter Board Connector (6)**.
2. Connect the battery connector to the device connector.
3. Connect the balance connector of the battery to the JST_XH balance adapter.
4. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe/Li-HV.

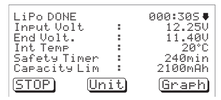
5. Press **DCHG**.



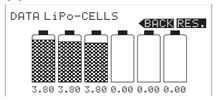
6. Press a parameter to highlight that parameter.
7. Press the **Up** and **Down Arrows** to edit the parameter.
8. Press **Select** to save the parameter.
9. Once the parameters are at the desired settings, press and hold **DISCHRG**.
10. The charger will check the battery and charger settings and discharging will begin. The charger will beep and display the following screen:



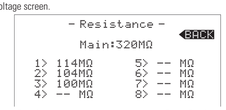
11. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Discharging information.



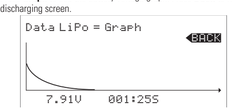
12. Press **Unit** to see the voltages for each cell. Press **Back** to return to the discharging screen.



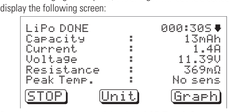
13. Press **RES.** to see the cell resistance screen. Press **Back** to return to the voltage screen.



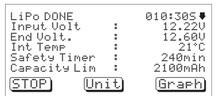
14. Press **Graph** to see the battery voltage graph. Press **Back** to return to the discharging screen.



15. Press **STOP** at any time to stop discharging.
16. When discharging is complete, the charger will sound a series of beeps and display the following screen:



17. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.

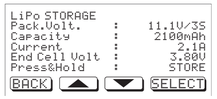


18. Disconnect the battery from the charger.

4 - LITHIUM STORAGE CHARGING

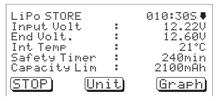
1. Connect the JST_XH balance adapter to the **Balance Circuit Adapter Board Connector (6)**.
2. Connect the battery connector to the device connector.
3. Connect the balance connector of the battery to the JST_XH balance adapter.
4. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe/Li-HV.

5. Press **STOR**.

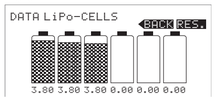


6. Press a parameter to highlight that parameter.
7. Press the **Up** and **Down Arrows** to edit the parameter.
8. Press **Select** to save the parameter.
9. Once the parameters are at the desired settings, press and hold **STORE**.
10. The charger will check the battery and charger settings and storage charging will begin. The charger will beep and display the following screen:

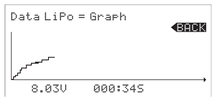
11. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the storage Charging information.



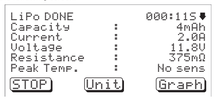
12. Press **Unit** to see the voltages for each cell. Press **Back** to return to the storage charging screen.



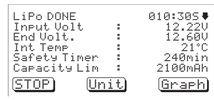
13. Press **Graph** to see the battery voltage graph. Press **Back** to return to the storage charging screen.



14. Press **STOP** at any time to stop charging.
15. When charging is complete, the charger will sound a series of beeps and display the following screen:



16. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.



17. Disconnect the battery from the charger.

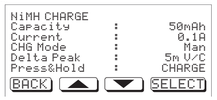
CAUTION: The nickel charge program menus are to be used ONLY for the charging and discharging of nickel battery packs. Charging other battery types using the nickel charge programs will damage the battery or the charger.

Only Ni-MH is shown in the following three sections.

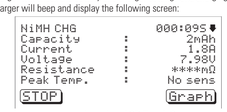
5 - NICKEL (NI-MH/NI-CD) CHARGING

1. Connect the battery connector to the device connector.
2. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd.

3. Press **CHG**.

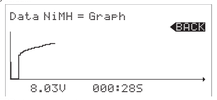


4. Press a parameter to highlight that parameter.
5. Press the **Up** and **Down Arrows** to edit the parameter.
6. Press **Select** to save the parameter.
7. Once the parameters are at the desired settings, press and hold **CHARGE**.
8. The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:

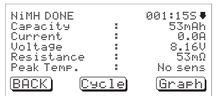


9. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.

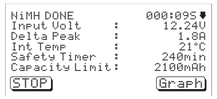
10. Press **Graph** to see the battery voltage graph. Press **Back** to return to the charging screen.



11. Press **STOP** at any time to stop charging.
12. When charging is complete, the charger will sound a series of beeps and display the following screen:



13. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.



14. Disconnect the battery from the charger.

6 - NICKEL DISCHARGING

1. Connect the battery connector to the device connector.
2. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd.

```
Program select=NiMH
N i M H
CHG   DCHG   CYCLE
```

3. Press **DCHG**.

```
NiMH DISCHARGE
End Volt      :     0.10V
Capacity      :     50mAh
Current       :      0.1A

Press&Hold    :    DISCHRG
BACK   ▲   ▼   SELECT
```

4. Press a parameter to highlight that parameter.
5. Press the **Up** and **Down Arrows** to edit the parameter.
6. Press **Select** to save the parameter.
7. Once the parameters are at the desired settings, press and hold **DISCHRG**.
8. The charger will check the battery and charger settings and discharging will begin. The charger will beep and display the following screen:

```
NiMH DCHG          000:34S
Capacity      :     16mAh
Current       :      1.8A
Voltage       :     8.43V
Resistance    :    ****mΩ
Peak Temp.    :    No sens
STOP           Graph
```

9. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Discharging information.

```
NiMH DCHG          000:09S
End Volt      :     12.24V
Int Temp      :       21°C
Safety Timer  :    240min
Capacity Limit:    2100mAh
STOP           Graph
```

10. Press **Graph** to see the battery voltage graph. Press **Back** to return to the discharging screen.

```
Data NiMH = Graph
BACK
8.39V   000:47S
```

11. Press **STOP** at any time to stop discharging.
12. When discharging is complete, the charger will sound a series of beeps and display the following screen:

```
NiMH DONE          001:15S
Capacity      :     53mAh
Current       :      0.0A
Voltage       :     8.16V
Resistance    :      53mΩ
Peak Temp.    :    No sens
BACK   Cycle   Graph
```

13. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.

```
NiMH DONE          000:09S
End Volt      :     12.24V
Int Temp      :       21°C
Safety Timer  :    240min
Capacity Limit:    2100mAh
STOP           Graph
```

14. Disconnect the battery from the charger.

7 - NICKEL CYCLE CHARGING

1. Connect the battery connector to the device connector.
2. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd.

```
Program select=NiMH
N i M H
CHG   DCHG   CYCLE
```

3. Press **CYCLE**.

```
NiMH CYCLE            [1/2]
Capacity      :    3300mAh
CHG Curr.     :       3.3A
DCHG Curr.    :       0.1A
DCHG End Volt :      0.10V
Press&Hold    :      CYCLE
BACK   ▲   ▼   SELECT
```

4. Press a parameter to highlight that parameter.
5. Press the **Up** and **Down Arrows** to edit the parameter.
6. Press **Select** to save the parameter.
7. Press the **top right** of the **LCD Touch Screen** to get to the next set of parameters.
8. Once the parameters are at the desired settings, press and hold **CYCLE**.
9. The charger will check the battery and charger settings and cycle charging will begin. The charger will beep and display the following screen:

```
NiMH CYCLE         000:06S
Capacity      :      4mAh
Current       :      3.3A
Voltage       :     7.97V
Resistance    :      53mΩ
Peak Temp.    :    No sens
STOP   CYCLE   Graph
```

10. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Cycle information.

```
NiMH DONE          001:15S
Input Volt    :     14.87V
Delta Peak    :      8mV/C
Int Temp.     :       60F
Safety Timer  :    240min
Capacity Lim. :    3300mAh
BACK   Cycle   Graph
```

11. Press **CYCLE** to see the voltage and amperage applied to each cycle.

```
Data NiMH = Cycle 1/1
--CHG--        --DISCHG--
00.00Vp         00.00Vs
00000mAh        00000mAh
Back   UP   Down
```

12. Press **Graph** to see the battery voltage graph. Press **Back** to return to the charging screen.

```
Data NiMH = Graph
BACK
8.03V   000:28S
```

13. Press **STOP** at any time to stop charging.
14. When cycle charging is complete, the charger will sound a series of beeps and display the following screen:

```
NiMH DONE          001:15S
Capacity      :     53mAh
Current       :      0.0A
Voltage       :     8.16V
Resistance    :      53mΩ
Peak Temp.    :    No sens
BACK   Cycle   Graph
```

15. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.

```
NiMH DONE          001:15S
Input Volt    :     14.87V
Delta Peak    :      8mV/C
Int Temp.     :       60F
Safety Timer  :    240min
Capacity Lim. :    3300mAh
BACK   Cycle   Graph
```

16. Disconnect the battery from the charger.

CAUTION: The Pb charge program menus are to be used ONLY for the charging and discharging of Pb battery packs. Charging other battery types using the Pb charge programs will damage the battery or the charger.

8 - PB CHARGING

1. Connect the battery connector to the battery adapter cable.
2. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Pb.

```
Program select=Pb
P b
CHG   DCHG
```

3. Press **CHG**.

```
Pb CHARGE
Pack. Volt.   :      2V/1P
Capacity      :     50mAh
Current       :      0.1A

Press&Hold    :     CHARGE
BACK   ▲   ▼   SELECT
```

4. Press a parameter to highlight that parameter.
5. Press the **Up** and **Down Arrows** to edit the parameter.
6. Press **Select** to save the parameter.
7. Once the parameters are at the desired settings, press and hold **CHARGE**.
8. The charger will check the battery and charger settings and display the following screen:

```
Pb Charge Confirm
-Connect-      -Check-
Input•••• OK    Set: 6P
BATT.•••• OK   Read: 5P
Back           START
```

9. Press **START**. The charger will beep and display the following screen:

```
Pb CHG             000:16S
Capacity      :      8mAh
Current       :      1.7A
Voltage       :     14.69V
Resistance    :    ****mΩ
Peak Temp.    :    No sens
STOP           Graph
```

10. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the charging info.
11. Press **Graph** to see the battery voltage graph. Press **Back** to return to the charging screen.

```
Data Pb     = Graph
BACK
14.68V   000:12S
```

12. Press **STOP** at any time to stop charging.
13. When charging is complete, the charger will sound a series of beeps and display the following screen:

```
Pb DONE            000:19S
Capacity      :      8mAh
Current       :      1.7A
Voltage       :     11.60V
Resistance    :    ****mΩ
Peak Temp.    :    No sens
BACK           Graph
```

14. Disconnect the battery from the charger.

9 - PB DISCHARGING

1. Connect the battery connector to the battery adapter cable.
2. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Pb.

```
Program select=Pb
P b
CHG   DCHG
```

3. Press **DCHG**.

```
Pb DISCHARGE
Pack. Volt.   :      2V/1P
Capacity      :     50mAh
Current       :      0.1A

Press&Hold    :    DISCHRG
BACK   ▲   ▼   SELECT
```

4. Press a parameter to highlight that parameter.
5. Press the **Up** and **Down Arrows** to edit the parameter.
6. Press **Select** to save the parameter.
7. Once the parameters are at the desired settings, press and hold **DISCHRG**.
8. The charger will check the battery and charger settings and display the following screen:

```
Pb DCHG Confirm
-Connect-      -Check-
Input•••• OK    Set: 6P
BATT.•••• OK   Read: 5P
BACK           START
```

9. Press **START**. The charger will beep and display the following screen:

```
Pb DCHG            000:19S
Capacity      :      8mAh
Current       :      1.7A
Voltage       :     11.60V
Resistance    :    ****mΩ
Peak Temp.    :    No sens
STOP           Graph
```

10. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the discharging information.
11. Press **Graph** to see the battery voltage graph. Press **Back** to return to the Discharging screen.

```
Data Pb     = Graph
BACK
11.54V   000:32S
```

12. Press **STOP** at any time to stop discharging.
13. When discharging is complete, the charger will sound a series of beeps and display the following screen:

```
Pb DONE            000:19S
Capacity      :      8mAh
Current       :      1.7A
Voltage       :     11.60V
Resistance    :    ****mΩ
Peak Temp.    :    No sens
BACK           Graph
```

14. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.
15. Disconnect the battery from the charger.

10 - SETUP

1. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Setup.

```
Program select=Setup
SETUP
```

2. Press **SETUP**.

```
USER SETUP            [1/4]
Temp (°C/°F)  :         °C
Temp Cutt-Off :        60°C
Input Low Volt :       10.0V
Input Limited :        Auto
DCHG Mode     :          CC
BACK   ▲   ▼   SELECT
```

3. Press a parameter to highlight that parameter.
4. Press the **Up** and **Down Arrows** to edit the parameter.
5. Press **Select** to save the parameter.
6. Press **the top right** of the **LCD Touch Screen** to get to the next set of parameters.

```
USER SETUP            [2/4]
Balance Volt  :        Auto
Balance Force :        Auto
Full Force    :        Auto
MH/Cd Trickle :         OFF
Safety Timer  :       240min
BACK   ▲   ▼   SELECT
```

```
USER SETUP            [3/4]
Back Light    :        100%
Melody        :           1
Button Sound  :          ON
Buzzer Sound  :          ON
Buzzer Vol    :        100%
BACK   ▲   ▼   SELECT
```

```
USER SETUP            [4/4]
<    ENTER_USER_NAME     >
Version#      :        1.00

Press&Hold    -->    FCTY_RST
BACK   ▲   ▼   SELECT
```

Parameters	
Temperature	°C/°F
Temperature Cutoff	68–176°F (20–80°C)
Input Power Low Voltage Cutoff	10.0V–17.5V
Input Limited	1.0–16.5A
DCHG Mode	CC–CV
Balance Voltage	0.01V–0.03V
Balance Force	-0.01–7.00V
MH/Cd Trickle	50mA–200mA
Safety Timer	1–255 minutes
Back Light	OFF–100%
Melody	1–5
Button Sound	ON/OFF
Buzzer Sound	ON/OFF
Buzzer Volume	0–100%
Username	Enter your name here
Version	1.0
Factory Reset	Press and hold FCTY RST to return the charger to default factory settings.

11 - VIEW

1. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=View.

```
Program select=View
VIEW   BALANCE
```

2. Press **VIEW**. The screen will display the current charger status.

```
DATA VIEW
Input Volt    :      15.30V
Output Volt   :      0.02V
Int Temp.     :       29°C
Ext Temp.     :    No sens
Resistance    :     ****mΩ
BACK           CELLS
```

3. Press **CELLS** to view the connected lithium battery's individual cell voltage.

```
DATA View-CELLS
BACK RES.
0.00 0.00 0.00 0.00 0.00 0.00
```

12 - BALANCE

1. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=View.

```
Program select=View
VIEW   BALANCE
```

2. Press **BALANCE**.
3. Press the type of battery you want to balance: Li-Po/Li-Ion/Li-Fe.
4. Press **START**. The charger will begin balancing the cells.

```
BATTERY
LiPo   LiIon   LiFE
BACK           START
```

5. Press **STOP** at any time to stop balancing.
6. When balancing is complete, the charger will beep and display the following screen:

```
-Balancing Complete-
BACK RES.
3.94 3.94 0.00 0.00 0.00 0.00
```

13 - MEMORY

1. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach the battery program you would like to save: Program Select=Li-Po/Li-Fe/Li-Ion/Ni-MH/Ni-Cd/Pb.
2. Press the **action at the bottom** of the **LCD Touch Screen** to enter that menu.
3. Press a parameter to highlight that parameter.
4. Press the **Up** and **Down Arrows** to edit the parameter.
5. Press **Select** to save the parameter.
6. If there is more than one screen of parameters, press the **top right corner** of the **LCD Touch Screen** to scroll through the parameter screens.
7. Once the parameters are at the desired settings, press **Back** to return to the main menu screens.
8. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Memory.

```
Program select=Memory
MEMORY
```

9. Press **MEMORY**.
10. Choose an empty memory profile and press it.

```
USER SETUP            [1/4]
M01  NULL
M02  NULL
M03  NULL
M04  NULL
M05  NULL
BACK   DEL   LOAD   SAVE
```

11. Press **SAVE**. The charging parameters you just entered will be saved in that memory profile.
12. To use a memory profile, press it, then press **LOAD**.
13. To delete a memory profile, press it, then hold **DEL**.
14. Press the **top right** of the **LCD Touch Screen** to scroll through all 20 memory profiles.

14 - USB DEVICE CHARGING

The charger has the capability to charge any USB-compatible device with the **2.1A USB Power Output Port (F)**. To use the charging function, simply connect a compatible charging device or cord into the charge port while the charger is powered ON. The charger provides up to 2.1A current at 5V DC.

15 - TROUBLESHOOTING

During charger operation, circuits monitor battery and charger functions. If the following messages show on the charger's LCD screen, make the recommended responses. If the message continues after you respond as recommended, contact your nearest Horizon Hobby customer service center for assistance.

REVERSE POLARITY	Make sure each connection polarity is correct between the power source and the charger, then between the charger and the battery.
PROCESS INTERRUPTED	Make sure the power connections are correct for charging.
OUTPUT SHORT CIRCUIT	Make sure there are no short circuits between the poles of the battery or the battery and the charger. Replace damaged wires.
INPUT VOLTAGE ERROR	Input voltage to the charger fell below the default or adjusted input voltage setting. Make sure the power source for the charger provides correct input voltage.
CHARGER FAILURE	Charger electronics require repair.
BATTERY LOW VOLTAGE	Battery voltage is lower than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.
BATTERY HIGH VOLTAGE	Battery voltage is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.
CELL LOW VOLTAGE	Cell voltage is lower than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.
CELL HIGH VOLTAGE	Cell voltage is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.
CELL CONNECT ERROR	Make sure the balance connection is correct for charging.
CHARGER OVERHEATING	Charger temperature is too high. Power OFF the charger and let it cool.
OVER POWER	Input voltage to the charger exceeded the default or adjusted input voltage setting. Make sure the power source for the charger provides the correct input voltage.
MAX CURRENT	Current is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.
SAFETY TIMER	Maximum safe time limit has been reached.
MAX CAPACITY	Maximum capacity limit has been reached.
MAX EXT. TEMP	External temperature is too high. Let charger and battery cool.

DYNAMITE 5-YEAR US LIMITED CHARGER WARRANTY INFORMATION

Horizon Hobby is so confident about the quality of our Dynamite chargers we offer a 5-year replacement plan on all of our Dynamite® Prophet™ and Passport™ chargers. Our 5-year replacement plan requires proof of purchase (copy of the receipt), and we do reserve the right to deny replacement to any abusers of our plan. See below for full details. Contact the appropriate Horizon Service Department for instructions on warranty claims.

5-YEAR US LIMITED WARRANTY

Warranty Period - Exclusive Warranty - Horizon Hobby, LLC., ("Horizon") warrants that the included Dynamite Prophet, or Passport charger ("Product") will be free from defects in materials and workmanship for a period of five (5) years after the date of purchase ("Warranty Period").
What is Not Covered - This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, (vi) Product not compliant with applicable technical regulations, or (vii) use that violates any applicable laws, rules, or regulations.
OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.
Purchaser's Remedy - Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.
Limitation of Liability - HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.
Law - These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.
WARRANTY SERVICES
Questions, Assistance, and Services - Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry at https://horizonhobby.quickbase.com/db/bghj7ey8c7a=GetNewRecord, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

NON-US LIMITED WARRANTY

What this Warranty Covers - Horizon Hobby, LLC ("Horizon") warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase.
What is Not Covered - This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, or (vi) Product not compliant with applicable technical regulations.
OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.
Purchaser's Remedy - Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.
Limitation of Liability - HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.
Law - These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.
WARRANTY SERVICES
Questions, Assistance, and Services - Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry at https://horizonhobby.quickbase.com/db/bghj7ey8c7a=GetNewRecord, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.
Inspection or Services - If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at http://www.horizonhobby.com/content/_service-center_render-service-center. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.
NOTICE: Do not ship LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.
Warranty Requirements - For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.
Non-Warranty Service - Should your service not be covered by warranty, service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website http://www.horizonhobby.com/content/_service-center_render-service-center.
ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at the sender's expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.

5-14-2015

WARRANTY AND SERVICE CONTACT INFORMATION

Country of Purchase	Horizon Hobby	Contact Information	Address
United States of America	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com. 877-504-0233	
	Sales	websales@horizonhobby.com 800-338-4639	
United Kingdom	Service/Parts/Sales: Horizon Hobby Limited	sales@horizonhobby.co.uk +44 (0) 1279 641 097	Units 1–4, Ployters Rd, Staple Tye Harlow, Essex, CM18 7NS, United Kingdom
Germany	Horizon Technischer Service	service@horizonhobby.de	Christian-Junge-Straße 1 25337 Elmshorn, Germany
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	
France	Service/Parts/Sales: Horizon Hobby SAS	infofrance@horizonhobby.com +33 (0) 1 60 18 34 90	11 Rue Georges Charpak 77127 Lieusaint, France

EU Compliance Statement: Horizon Hobby, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC and LVD Directives

A copy of the EU Declaration of Conformity is available online at: http://www.horizonhobby.com/content/support-render-compliance.

E328

Instructions for disposal of WEEE by users in the European Union

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collections point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

FCC INFORMATION

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

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