This Service Guide contains:
Troubleshooting
Replacement Instructions
Illustrated Parts Breakdown
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BUZZAROUND LITE NOMENCLATURE
1 – Seat Assembly with arms
2 – Control Panel
3 – Battery Pack
4 – Rear Section (Drive Train – Motor/Brake/Transaxle located under rear shroud)
5 – Drive wheel
6 – Free Wheel Lever
7 – Detent Pin
8 – Front Section
9 – Controller (located inside panel under frame)
10 – Removable Carpet
11 – Front Wheel
12 – Tiller
13 – Front Basket
14 – Seat Post

Contact Information
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Figure 1. Buzzaround Lite (Model GB106)
ABOUT THIS SERVICE GUIDE
This service guide provides you with the information necessary to repair Golden Technologies Buzzaround Lite. There are two parts to the service guide: Troubleshooting and Component Replacement. The Troubleshooting section will assist you in finding the source of the problem. The Component Replacement section contains step-by-step replacement instructions for key components.

Before troubleshooting, check the following:
• Make sure that the circuit breaker is reset.
• Visually check terminals for corrosion. Check wires for missing insulation.
• Make sure that the batteries are in good working order. When possible, keep sets of known good batteries of various ratings in your shop at all times. The GB106 requires 12AH batteries. Problems that surface during troubleshooting are often due to the fact that the batteries are not fully charged or cannot hold their charge.
• Make sure that the electrical connections are secure. Unplug the connectors and make sure all of the pins are seated properly. Push the pins back into the connector housing if necessary.

NOTE: If you get to a point during troubleshooting where you cannot continue, call tech support at 800-624-6374.

GB106 COMPONENTS
The GB106 is battery-operated scooter controlled by a P+G Drives S-Drive controller. The S-Drive controller monitors the systems and displays BEEP codes when it detects a fault in the system. The GB106 was designed to operate with between 18 – 24 volts (V) of direct current (DC).

The GB106 control system is made up of the following components:
• 12V/12AH Batteries (2) (BAT)
• Main Circuit Breaker (CB)
• Off-Board Battery Charger (BC)
• Charger Harness (CH)
• Intermediate Charger Harness (ICH)
• Power Harness (PH)
• Motor (MT)
• Motor Brake (MB)
• Intermediate Motor Harness (IMH)
• P+G S-Drive Controller (CN)
• Main Harness (MH)
• Top Dashboard (TD)
• Throttle Pot (TP)
• Speed Pot (SP)
• Key Switch (KS)

NOTE: Parts and service must be authorized by Golden Technologies Service Department. Unauthorized parts or service may void the warranty. For more information, contact the Golden Technologies Service Department at 800-624-6374 or parts@goldentech.com.
Component: 12VDC/12AH Batteries (2)
Location: Connected in series inside the battery box.
Function: Supply 24VDC to the motor and/or accessories (12VDC x 2).
Connections: BAT+ and BAT- are located on each battery. BAT1 – BAT3 are located on the outside of battery box.
Failure Signs: Batteries drain quickly. Scooter runs slowly or not at all. Batteries will not charge, but charger is working properly. Beep Codes #2 and #3.
Tests: Load test. Fully charge the batteries first. Make sure the charging system is working.
Expected Readings: 12 - 14VDC each when fully charged. 24VDC at BAT1 and BAT3.
Serviceable: Replace battery.

Component: Circuit Breaker (CB)
Location: Mounted on the inside front of the battery box.
Function: Protects battery circuit from current overload. When the current draw exceeds breaker rating, the circuit breaker will open.
Connections: CB1 and CB2 are the terminals on the circuit breaker. CB3 – CB6 are the terminals on wires that connect the circuit breaker to the batteries.
Failure Signs: Opens repeatedly. May indicate a failed circuit breaker or short in the wiring. Also, may open if the motors are overloaded (from excessive weight, excessive uphill driving, etc).
Test: Measure resistance across CB1 and CB2. Check for continuity across CB3 and CB4 and across CB5 and CB6.
Expected reading: Less than 10 ohms.
Serviceable: Circuit breaker must be replaced with exact current rating. Replace wires as necessary.

Component: Battery Charger (BC) (Model: HP1202B, off-board charger only).
Location: Stored inside a pouch on the seat back.
Function: Recharges batteries. There is one LED on the charger. The LED is red when the charger is plugged into an electrical outlet. If the LED does not go on, then check the electrical outlet. When the charger is on and plugged into the charger port, an orange LED indicates that the batteries are charging. A green LED indicates that the batteries are fully charged.
Connections: C1 (connects to CH1 on battery box).
Failure Signs: LED does not go on. Batteries will not charge.
Tests: Test for voltage. Test by measuring positive and negative leads on the charger connector (C1).
Expected reading: 24.5VDC - 27VDC
Serviceable: Replace if necessary.

Component: Charger Harness (CH)
Location: Inside the battery box.
Function: Provides external charger with connection to intermediate charger harness.
Connections: CH1 charger port and CH2 connects to intermediate charger harness.
Failure Signs: Batteries will not charge.
Tests: Test for voltage across Pin 1 and 2 on CH1. Also, test continuity between CH1 and CH2.
Expected readings: Total battery voltage.
Serviceable: Replace as necessary.

Component: Intermediate Charger Harness (ICH)
Location: Inside battery box.
Function: Provides charger harness with connection to batteries and inhibit signal to battery box terminals.
Connections: ICH1 – ICH6
Failure Signs: Batteries will not charge.
Tests: Test for voltage across Pin 1 and pin 2 ICH1. Also, test continuity between pin 3 on ICH1 and BAT2.
Expected readings: Charger will not work when battery voltage is too low. Replace if opens are found.
Serviceable: Replace as necessary.
Component: Power Harness (PH)  
Location: Rear section of scooter.  
Connections: PH1 – PH13  
Function: Provides connectivity between batteries and controller, inhibit and controller, motor and controller, and motor brake and controller.  
Failure Signs: Scooter will not run or runs slowly. Brake will not work correctly.  
Tests: Test for continuity.  
Expected readings: Not open.  
Serviceable: Replace as necessary.

Component: Motor (MT)  
Location: Rear section of scooter on transaxle.  
Function: Drives the scooter.  
Connections: MT1  
Failure Signs: Scooter runs slowly or not at all.  
Expected readings: Internal resistance is less than 50 ohms but not shorted. (NOTE: Can be as low as 0.2 ohms).  
Serviceable: Replace motor.

Component: Motor Brake (MB)  
Location: End of motor.  
Function: Parking brake for the motor.  
Connections: MB1  
Failure Signs: Scooter will not move or moves sluggishly. No audible click when the scooter stops.  
Tests: Test for open. See Beep Code #5.  
Expected readings: Less than 80 ohms but not shorted.  
Serviceable: Replace if open.

Component: Intermediate Motor Harness (IMH)  
Location: Between motor and power harness.  
Function: Provides connection between motor, motor brake, and power harness.  
Connections: IM1 – IM5  
Failure Signs: Scooter may not run or runs slowly.  
Tests: Test for continuity  
Expected readings: Not open.  
Serviceable: Replace as necessary.

Component: Controller (CN)  
Location: Underneath front section.  
Function: Monitors the system and beeps when something in the system is out of range. These faults are heard as a fast series of Beeps, followed by a Beep Code (BEEP CODES 2, 3, and 5-9).  
Connections: CN1 – CN7  
Failure Signs: Beep Code #9.  
Tests: Test for voltage to motor when paddle is pressed.  
Expected readings: Voltage varies.  
Serviceable: Replace as necessary.
Component: Main Harness (MH)
Location: Front section.
Function: Connects controller to control panel.
Connections: MH1 and MH2
Failure Signs: Scooter does not run or runs slowly.
Tests: Test for voltage at (batteries and key switch), resistance at (speed pot and throttle pot), and continuity.
Expected readings: 24VDC (batteries and key switch), resistance (speed and throttle pot) varies, and continuity not open.
Serviceable: Replace as necessary.

Component: Throttle Pot (TP)
Location: Lower Dashboard
Function: The throttle potentiometer (pot) uses variable resistance to control speed and direction of travel by reversing polarity.
Connections: TP1
Failure Signs: Beep Codes #6 and #7
Tests: Test resistance across pin 1 and pin 2 or across pin 2 and pin 3 on TP1 with the paddle deflected either way. Also, test voltage across yellow wire and battery ground.
Expected readings: Depends on direction of deflection. Battery voltage.
Serviceable: Replace as necessary.

Component: Speed Pot (SP)
Location: Top Dashboard (Control Panel)
Function: The speed potentiometer (pot) uses variable resistance to control the top speed of the scooter.
Connections: SP1
Failure Signs: Speed will not vary when knob is turned.
Tests: See Beep Code #7
Expected readings: Depends on speed pot position.
Serviceable: Replace top dashboard as necessary.

Component: Top Dashboard (TD)
Location: Tiller
Function: Provides connectivity between controller and key switch, battery meter, throttle pot, and speed pot.
Connections: TB1 – TB4
Failure Signs: Damaged or loose connectors. Pins not seated properly in connectors.
Serviceable: Replace as necessary.
REAR WIRING DIAGRAM
CONTROL PANEL WIRING DIAGRAM

TO MAIN HARNESS CONNECTION (MH2)

TO THROTTLE POT CONNECTION (TP1)

5K OHM THROTTLE POT PINOUT (FRONT VIEW – TP1)

BATTERY VOLTAGE METER

POWER KEY SWITCH (ON/OFF)

HORN BUTTON

25K OHM SPEED POT

HORN

TD1

TD2

PURPLE

BLACK

WHITE

YELLOW

BLUE

ORANGE

RED

NC

WHITE

BLACK

NC

RED

5

8

4

1

P1

P4

P4

P0

+24V

KEY

-0V

P7
TYPICAL S-DRIVE WIRING DIAGRAM

SOCKET CONNECTION DETAILS

1. BRAKE NEGATIVE
2. BRAKE POSITIVE
3. BATTERY NEGATIVE
4. BATTERY POSITIVE
5. INHIBIT

Solenoid Brake

TILLER INTERFACE

FORWARD

THROTTLE POT

REVERSE

LIMITING POT.

AUDIBLE ALARM

STATUS INDICATOR

ON/OFF SWITCH

For variant Tiller Interface connection configurations refer to the TILLER INTERFACE section

MOTOR CONNECTION DETAILS

1. MOTOR NEGATIVE
2. MOTOR POSITIVE

BATTERY CONNECTION DETAILS

1. BATTERY NEGATIVE
2. BATTERY POSITIVE

12V

CIRCUIT BREAKER

12V

MOTOR

BRAKE RELEASED SWITCH

SOLENOID BRAKE

CHARGER/PROGRAMMING SOCKET
### S-DRIVE TILLER INTERFACE SOCKET DETAILS

<table>
<thead>
<tr>
<th>PIN NUMBER</th>
<th>DESCRIPTION</th>
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<tr>
<td>1</td>
<td>Throttle Wiper</td>
</tr>
<tr>
<td>2</td>
<td>Throttle High Reference</td>
</tr>
<tr>
<td>3</td>
<td>Audible Alarm</td>
</tr>
<tr>
<td>4</td>
<td>Slow/Fast Switch</td>
</tr>
<tr>
<td>5</td>
<td>On/Off Switch</td>
</tr>
<tr>
<td>6</td>
<td>Inhibit 2</td>
</tr>
<tr>
<td>7</td>
<td>24V</td>
</tr>
<tr>
<td>8</td>
<td>Throttle Low Reference</td>
</tr>
<tr>
<td>9</td>
<td>Speed Limiting Potentiometer</td>
</tr>
<tr>
<td>10</td>
<td>Status Indicator</td>
</tr>
<tr>
<td>11</td>
<td>Spare</td>
</tr>
<tr>
<td>12</td>
<td>Reverse Switch</td>
</tr>
<tr>
<td>13</td>
<td>0V</td>
</tr>
<tr>
<td>14</td>
<td>Inhibit 3</td>
</tr>
</tbody>
</table>
Scenario 1: No Power
You insert the key into the key switch, and the battery condition meter indicates no battery power.

1) Check the circuit breaker (CB).
   • Tripped? – Reset it. If it resets, then operate the scooter.
   • Not tripped? – Go to the next step.
   • Does not reset? – Go to step 4.

2) Remove the battery box from the scooter.
3) Measure voltage across BAT1 and BAT3 on the outside of the battery box.
   • 0VDC? – Go to the next step.
   • 12 – 17VDC? – Recharge and load test batteries. Go to “Charger Tests” if the batteries will not charge. Replace the batteries if necessary.

4) Open the battery box.
5) Check for loose or corroded battery terminals. Clean with steel wool or wire brush and tighten if necessary.
6) Measure voltage at BAT- on one battery and BAT+ on the other battery. Take measurement at terminals ICH2 and ICH5.
   • 18 – 25VDC (or battery voltage)? – Replace the intermediate charger harness (ICH).
   • 0 VDC? – Go to the next step.

7) Measure resistance across the circuit breaker terminals.
   • OPEN? - Replace the circuit breaker.
   • Less than 1 ohm? - Check the continuity between CB3 and CB4 (red wire) and between CB5 and CB6 (black wire). Replace as necessary.

8) Reinstall the battery box.
9) Open the front console.
10) Disconnect the main harness (MH2) from the top dashboard (TD1). Are the pins on the connector (MH2) seated correctly?
    • Yes? – Go to the next step.
    • No? – Reseat the pins, reconnect the main harness to top dashboard, and try to run the scooter.

11) Check the connector (TD1) on the top dashboard. Are the pins on the connector (TD1) seated correctly?
    • Yes? – Replace the top dashboard.
    • No? – Reseat the pins, reconnect TD1 on the top dashboard to MH2 the main harness and try and run the scooter.

12) Measure voltage across pin 7 (black wire) and pin 4 (red wire) on MH2.
    • 18 – 25VDC (or battery voltage)? – Replace the top dashboard.
    • 0VDC? – Go to the next step.

13) Reconnect MH2 to the top dashboard.
14) Reinstall the battery box.
15) Carefully tilt the scooter over on its side.
16) Remove the controller cover.
17) Disconnect the main harness (MH1) from the controller (CN7).
18) Measure voltage across pin 7 and pin 13 on CN7.
    • 18 – 25VDC (or battery voltage)? – Replace the main harness.
    • 0VDC? – Replace the controller.
Charger Tests
Note: The charger will not work properly if the battery voltage is too low. Boost charge the batteries to bring the voltage up to a level that the HP1202B off-board charger will see, then plug the charger into the charging port and charge for 8 hours.

1) Make sure that the charger (C) is plugged into a working electrical outlet.
2) Check the charger harness (CH) and the intermediate charger harness (ICH) for loose and/or corroded connections. Clean or tighten as necessary.
3) Check charger harness (CH) and intermediate charger harness (ICH) for continuity. Replace as necessary.

Scenario 2: Power to Console, but Scooter will not run.
You insert the key into the key switch. The status LED indicates power (but no BEEP code) and the battery condition meter indicates a full charge. You push the paddle and the scooter does not move.

1) Remove the battery box from the scooter.

2) Measure resistance across BAT 1 and BAT 2 located on the battery box.
   • Open? – Go to the next step
   • Less than 1 ohm? – Replace the intermediate charger harness (ICH).

3) Open the front console.
4) Disconnect the main harness (MH2) from the top dashboard (TD1).
5) With the key still in the key switch, measure resistance across pin 4 (red wire) and pin 8 (white wire) on TD1.
   • Less than 1 ohm? – Go to the next step.
   • Open? – Replace the top dashboard.

6) Remove the cover from the controller.
7) Disconnect the main harness (MH1) from the controller (CN7).
8) Measure resistance across pin 7 (red wire) on MH1 and pin 4 (red wire) on MH2.
   • Less than 1 ohm? – Replace the controller.
   • Open? – Replace the main harness.

BEEP CODES
The S-Drive controller uses audible beeps to indicate the status of the system. When the controller notices that there is a malfunction in the system, it will beep a code when the power is on. The signal will be a set of fast beeps lasting two seconds. The slower diagnostic pattern will then be sounded once. For example, when it Beeps five times and stops, that indicates BEEP code #5 – Brake Trip.

The following BEEP codes are used to help diagnose system errors:

BEEP Code #2 – Low Battery Voltage
BEEP Code #3 – High Battery Voltage
BEEP Code #5 – Solenoid Brake Trip
BEEP Code #6 – Throttle Trip
BEEP Code #7 – Throttle Trip
BEEP Code #8 – Motor Disconnected
BEEP Code #9 – Possible Controller Trip
**BEEP CODE #2 – LOW BATTERY VOLTAGE**
The battery needs charging or there is a bad connection to the battery. Check the connections to the battery. If the connections are good, try charging the battery.
1) Charge the batteries.
2) If the batteries will not charge, then open the battery box.
3) Check for loose or corroded battery terminals. Clean with steel wool or wire brush and tighten if necessary.
4) Measure voltage at BAT- on one battery and BAT+ on the other battery. Take measurement at terminals connected to the circuit breaker (CB3 and CB6).
   • 16 – 24VDC (or battery voltage)? – Replace the intermediate charger harness (ICH).
   • 0VDC? – Go to the next step.
5) Measure resistance across the circuit breaker terminals (CB1 and CB2).
   • OPEN? - Replace the circuit breaker.
   • Less than 1 ohm? - Check the continuity between CB3 and CB4 (red wire) and between CB5 and CB6 (black wire). Replace as necessary.

**BEEP CODE #3 - HIGH BATTERY VOLTAGE**
An excessive voltage has been applied to the S-drive. This is usually caused by a poor battery connection. Check the battery connections. **NOTE: The error may only be present when going down hill and power goes back to the batteries.**
1) Insert the key into the key switch and turn it to the on position. Allow the battery level to drop. Do not allow the battery voltage to fall into the red area on the battery meter.
2) Check the battery charger. Make sure it is an approved charger.

**BEEP CODE #5 – SOLENOID BRAKE TRIP**
The parking brake has a bad connection. Check the parking brake and motor connections. Make sure all the system connections are secure.
1) Make sure that the scooter is in drive mode. If it is in drive mode, then go to the next step.
2) Separate the front and rear halves of the scooter.
3) Measure resistance across IMH3 (orange wire) and IMH5 (blue wire) on the intermediate motor harness located on the rear frame.
   • Less than 80 ohms but not shorted? - Go to step 8.
   • Outside that range? - Go to the next step.
4) Unplug the intermediate motor harness (IMH1) from the motor harness (MT1). Are the pins on the connectors seated correctly?
   • Yes? – Go to the next step.
   • No? – Reseat the pins, reconnect IMH1 to MT1, and try to run the scooter.
5) Measure resistance across pin 3 (orange wire) and pin 4 (blue wire) on the motor harness (MT1).
   • Less than 80 ohms but not shorted? - Replace the intermediate motor harness (IMH).
   • Outside of range? – Go to the next step.
6) Unplug the motor brake (MB1) from the motor harness (MT2). Are the pins on the connectors seated correctly?
   • Yes? – Go to the next step.
   • No? – Reseat the pins, reconnect MB1 to MT2, and try to run the scooter.
7) Measure resistance across pin 1 and pin 2 on the MB1.
   • Less than 80 ohms but not shorted? - Replace the drivetrain.
   • Outside of range? – Replace the park brake.
8) Make sure the scooter is completely reassembled.
9) Turn the scooter onto its side.
10) Remove the controller cover.
11) Unplug the brake harness (PH10) from the controller. Are the pins on PH10 seated correctly?
   • Yes? – Go to the next step.
   • No? – Reseat the pins, reconnect the power harness to the controller, and try to run the scooter.

12) Measure resistance across pin 1 (orange wire) and pin 2 (blue wire) on brake harness (PH10).
   • Less than 80 ohms but not shorted? - Replace the controller.
   • Out of range? - Replace the power harness.

**BEEP CODE #6 – THROTTLE TRIP (OUT OF NEUTRAL)**
A throttle trip is indicated. Make sure the throttle is in the neutral position before switching on the scooter.
1) Remove the key from the key switch.
2) Make sure that the throttle pot is not obstructed and it can return to the neutral (center) position.
3) Move the throttle pot forward and then reverse. Make sure that it is not obstructed. Does it spring back to neutral position?
   • Yes? – Go to the next step.
   • No? – Check for obstructions. Replace if there are no obstructions.

4) Insert the key into the key switch. Does the code return?
   • No? – OK
   • Yes? – Go to BEEP CODE #7 to test the throttle pot.

**BEEP CODE #7 – THROTTLE TRIP/SPEED CONTROL FAULT (VOLTAGE ERROR).**
A throttle trip is indicated. Indicates a problem with the throttle control or speed control.
1) Make sure that the batteries are fully charged.
2) Remove the battery box.
3) Remove the battery box lid.
4) Reinstall the battery box onto the scooter frame.
5) Open the front console.
6) Insert the key into the key switch.
7) Insert the positive lead (red) from the multimeter into the back of pin 6 (yellow wire) on the main harness (MH2).
8) Connect the negative lead (black) from the multimeter to BAT-. Use the BAT- terminal that is connected to ICH2. Measure voltage.
   • Approximately 25VDC? – Go to step 12.
   • Out of range? – Go to the next step.

9) Disconnect the throttle pot from the top dashboard. Check the top dashboard. Is it discolored or damage?
   • Yes? – Replace the top dashboard.
   • No? – Go to the next step.

10) Are the pins on the connectors seated correctly?
    • Yes? – Go to the next step.
    • No? – Reseat the pins, reconnect the throttle pot to the top dashboard, and try to run the scooter.

11) Measure resistance across pin 1 (blue wire) and pin 2 (yellow wire) on the throttle pot connector.
    • Approximately 2.7k ohms? – Go to the next step.
    • Out of range? – Replace the throttle pot.

12) Measure resistance across pin 2 (yellow wire) and pin 3 (orange wire) on the throttle pot connector.
    • Approximately 2.7k ohms? – Replace the top dashboard.
    • Out of range? – Replace the throttle pot.

13) Turn the scooter over onto its side. Make sure that the battery box is still seated on the frame.
14) Remove the controller cover.
15) Insert the positive lead (red) from the multimeter into the back of pin 6 (yellow wire) on the main harness (MH1).
16) Connect the negative lead (black) from the multimeter to BAT-. Use the BAT- terminal that is connected to ICH2. Measure voltage.  
   • Approximately 25VDC? – Go to the next step.  
   • Out of range? – Replace the main harness.

17) Disconnect the main harness (MH1) from the controller. Are the pins on the connector seated correctly?  
   • Yes? – Go to the next step.  
   • No? – Reseat the pins, reconnect the main harness to the controller, and try to run the scooter.

18) Measure resistance across pin 14 (blue wire) and pin 7 (yellow wire) on the main harness connector (MH1).  
   • Approximately 2.7k ohms? – Go to the next step.  
   • Out of range? – Replace the main harness.

19) Measure resistance across pin 7 (yellow wire) and pin 6 (orange wire) on the main harness connector (MH1).  
   • Approximately 2.7k ohms? – Replace the controller.  
   • Out of range? – Replace the main harness.

**BEEP CODE #8 - MOTOR DISCONNECTED**  
The motor has a bad connection. Check all the connections and leads between the motor and the S-drive. Check the position of the freewheel switch.  
1) Separate the front and rear halves of the scooter. Refer to the owner’s manual.  
2) Turn the rear half over and disconnect the motor (MT1) from the intermediate motor harness (IMH1).  
3) Measure resistance across pin 1 (red wire) and pin 2 (black wire) on the motor harness (MT1).  
   • 50 ohms but not shorted. (NOTE: Can be as low as 0.2 ohms). Then go to the next step.  
   • Out of range, then replace the drivetrain.

4) Reconnect the motor (MT1) and the intermediate motor harness (IMH1).  
5) Measure resistance across IMH2 (red wire) and IMH4 (black wire) on the intermediate motor harness.  
   • 50 ohms but not shorted. (NOTE: Can be as low as 0.2 ohms) Then go to the next step.  
   • Out of range, then replace the intermediate motor harness (IMH).

6) Reassemble the scooter.  
7) Turn the scooter over.  
8) Remove the controller cover.  
9) Unplug power harness (PH8 and PH9) from the controller. Are the pins on the connector seated correctly?  
   • Yes? – Go to the next step.  
   • No? – Reseat the pins, reconnect the power harness to the controller, and try to run the scooter.

10) Measure resistance across PH9 and PH10.  
   • 50 ohms but not shorted. (NOTE: Can be as low as 0.2 ohms) Then replace the controller (CN).  
   • OPEN. Then replace the power harness (PH).

**BEEP CODE #9 – POSSIBLE CONTROLLER TRIP**  
A control system trip is indicated. Make sure all connections are secure.  
1) Make sure that all connections are secure.  
   • If the code continues, then shut down the scooter and allow the controller to cool down.  
   • If the problem still persists, then replace the controller (CN).
Component Replacement Instructions

CONTROLLER REPLACEMENT

To replace the controller:
1) Place the freewheel lever in the engaged position.
2) Remove the key from the key switch.
3) Remove the seat.
4) Turn the scooter over onto its side.
5) Remove the screws that attach the controller cover to the frame.
6) Slide the controller cover forward and remove it from the frame. See figure 2.
7) Unplug the connectors from the controller. Note the location of any wire ties used to secure the harnesses.
8) Remove the controller.
9) Install the new controller.
10) Reconnect the harness connectors. See figure 3.
11) Reinstall the controller cover.
12) Turn the scooter back onto its wheels.
13) Reinstall the battery box.
14) Reinstall the seat.
15) Insert the key into the key switch and operate the scooter.

Figure 2. Controller Location

Figure 3. Controller Connections
DRIVE WHEEL REPLACEMENT

To replace the drive wheel:
1) Place the freewheel lever in the engaged position.
2) Remove the key from the key switch.
3) Place a support under the scooter frame to raise the drive wheel.
4) Remove the hubcap.
5) Remove the nut and washer that fastens the drive wheel to the axle. See figure 4.
6) Remove the drive wheel from the axle. Retain the axle key.
7) Place a new wheel onto the axle. Make sure the axle key is installed properly.
8) Reinstall the nut and washer and tighten securely.
8) Reinstall the hubcap.

Figure 4. Drive Wheel
CONTROL PANEL REPLACEMENT

To replace the control panel:
1) Place the freewheel lever in the engaged position.
2) Remove the key from the key switch.
3) Use a slotted screwdriver to remove the control panel cover. See figure 5.
4) Use a Phillips screwdriver to remove the 4 screws, and remove the top dashboard.
5) Disconnect the main harness and the throttle Pot harness.
6) Reconnect new control panel and tighten the 4 Phillips head screws.
7) Replace the cover and snap into place.

THROTTLE POT REPLACEMENT

To replace the throttle pot:
1) Place the freewheel lever in the engaged position.
2) Remove the key from the key switch.
3) Use a slotted screwdriver to remove the control panel cover. See figure 5.
4) Use a Phillips screwdriver to remove the 4 screws, and remove the top dashboard.
5) Disconnect the throttle pot harness. See figure 6.
6) Remove the paddle from the throttle pot. See figure 7.
7) Remove the throttle pot from the lower dashboard.
8) Install the new throttle pot onto the lower dashboard.
9) Reinstall the paddle.
10) Reinstall the top dashboard.
11) Reinstall the control panel cover.
12) Reinstall the battery box.
13) Insert the key and test the scooter.
DRIVETRAIN (MOTOR/BRAKE AND TRANSAXLE)

To replace the transaxle:
1) Place the freewheel lever in the engaged position.
2) Remove the key from the key switch.
3) Remove the seat.
4) Remove the battery pack.
5) Separate the rear section from the front section.
6) Remove the rear section handle. See figure 8.
7) Remove the rear shroud.
8) Remove the drive wheels. Make sure you retain the axle keys.
9) Disconnect the motor harness from the power harness.
10) Remove the drivetrain from the rear frame.
11) Install the new transaxle onto the rear frame.
12) Reconnect the motor harness to the power harness.
13) Reinstall the drive wheels. Make sure to reinstall the axle keys.
14) Reinstall the rear shroud.
15) Reinstall the rear section handle.
16) Reconnect the front and rear sections of the scooter.
17) Reinstall the battery pack.
18) Reinstall the seat.
19) Insert the key and test the scooter.

Figure 8. Scooter (Rear Section)
BATTERIES

To replace the batteries:
1) Place the freewheel lever in the engaged position.
2) Remove the key from the key switch.
3) Remove the seat.
4) Remove the battery pack.
5) Remove the twelve screws holding the top and bottom halves of the battery pack together. See figure 9.
6) Disconnect the charger harness from the intermediate charger harness. See figure 10 on page 22.
7) Remove the B+ and B- wires from each battery.

⚠️ WARNING The circuit breaker is wired between the B+ of one battery and the B- of the opposite battery. Make sure the polarities are correct when connecting the batteries.

8) Remove the batteries.
9) Remove the hook and loop fasteners from the bottom of each battery.
10) Place the hook and loop fasteners on the bottom of the two new batteries.
11) Place the two new batteries into the battery pack.

Note: The batteries must be placed into the battery pack with the terminals facing rearward. See figure 9.

12) Reconnect the B+ and B- wires to each battery.

⚠️ WARNING Prevent electrical shock and damage to the batteries or scooter. Make sure the polarities are correct before connecting the two new batteries. See figure 10 on page 22.
Battery Replacement – Continued

13) Reconnect the charger harness and the intermediate charger harness.
14) Place the top half of the battery pack, onto the bottom half.
15) Tighten the twelve screws to secure two halves.
16) Reinstall the battery pack.
17) Reinstall the seat.
18) Insert the key and test the scooter.

Figure 10. Battery Pack Wiring Diagram
APPENDIX A - HOW TO USE A VOLTMETER

Step 1
Plug the probes into the meter. Red goes to the positive (+) and black to the negative (-).

Step 2
Turn the selector dial or switch to the type of measurement you want. To measure direct current - a battery, for example - use DCV. To measure alternating current, such as a wall outlet, use ACV.

Step 3
Choose the range setting. The dial may have options from 5 to 1000 on the DCV side and 10 to 1000 on the ACV side. The setting should be the top end of the voltage you are reading. Not all voltmeters have this setting.

Step 4
Turn the meter on.

Step 5
Hold the probes by the insulated handles and touch the red probe to the positive side of a DC circuit or either side of an AC circuit. Touch the other side with the black probe.

Step 6
Read the digital display or analog dial.

Figure 35. Multimeter (Set to DC Volts)
APPENDIX B - HOW TO USE AN OHM METER

Ohm’s law breaks down into the basic equation: Voltage = Current x Resistance. Current is generally measured in amps, and resistance in ohms. Testing the resistance on an electrical circuit in your home or car can help you diagnose problems with that circuit. You can use a simple ohmmeter for this task, but most professionals now use the ohmmeter function of a multimeter (also called multitester or VOM, for volt/ohmmeter). Read on for instructions on how to use an ohmmeter and test for resistance.

- Ohmmeter or Multimeter (Volt/ohmmeter)
- Circuit to test (with all power OFF)
- Service manual

**Step 1**
Disconnect completely and/or turn OFF all power to the circuit you are testing. You must have a completely dead wire or circuit in order to ensure accuracy in measurement, as well as your own safety. Your ohmmeter will supply the voltage and current for your circuit so NO other power is necessary. Testing a powered circuit can “cause damage to the meter, circuit, and *you*.”

**Step 2**
Connect testing wires to the ohmmeter. The black wire goes to the ground (common) outlet, the red wire to the volt/ohms outlet.

**Step 3**
Consult a service manual for the normal range of resistance for the circuit you are testing.

**Step 4**
Set the dial to the “ohms” setting with a multimeter. On an individual ohmmeter, you may have to set a range for the readings, in ohms, kilohms or megohms. Use the range you located in your service manual to set the dial.

![Figure 36. Multimeter (Set to Ohms)](image-url)
APPENDIX C - WIRING DIAGRAMS

CONTROL PANEL

MAIN HARNESS
INTERMEDIATE CHARGER HARNESS

CONNECTOR (ICH6) TO CONTROLLER +24V

CONNECTOR (ICH3) TO CONTROLLER INHIBIT

CONNECTOR (ICH4) TO CONTROLLER – 0V

CHARGER PORT (CH1)

TO OFF-BOARD CHARGER

CHARGER HARNESS

CONNECTOR (CH1) TO INTERMEDIATE CHARGER HARNESS CONNECTOR (ICH1)

POWER HARNESS

+24V TO BATTERY (+) TERMINAL (ICH5)

INHIBIT TO BATTERY (-) TERMINAL (ICH2)

Red + 24V Inhibit
Black – 0V

TO CHARGER HARNESS CONNECTOR (CH2)

TERMINAL (ICH5)

TO BATTERY (+)

TERMINAL (ICH2)

TO BATTERY (-)

PH8 TO MOTOR (CN3)

PH9 TO MOTOR (CN4)

+ VOLTAGE INPUT (CN1)

-VOLTAGE INPUT (CN1)

INHIBIT (CN6)

TO CONTROLLER CONNECTIONS

PH8 TO MOTOR (CN3)

PH9 TO MOTOR (CN4)

+ VOLTAGE INPUT (CN1)

-VOLTAGE INPUT (CN1)

INHIBIT (CN6)

TO CONTROLLER CONNECTIONS

PH8 TO MOTOR (CN3)

PH9 TO MOTOR (CN4)

+ VOLTAGE INPUT (CN1)

-VOLTAGE INPUT (CN1)

INHIBIT (CN6)

TO CONTROLLER CONNECTIONS
CIRCUIT BREAKER AND HARNESS

TO BATTERY TERMINALS

CB3

CB6

INTERMEDIATE MOTOR HARNESS

CONNECTOR (IMH1)

TO MOTOR CONNECTOR PLATE
**APPENDIX D - TROUBLESHOOTING FLOW CHARTS**

**SCENARIO 1: NO POWER**
You insert the key into the key switch, and the battery condition meter indicates no battery power.

1. **Check main circuit breaker.**
   - Not tripped?
     - Tripped?
       - Reset it.
     - 18VDC-25VDC?
6. **Measure voltage across BAT1 and BAT3 on outside of battery pack.**
   - 0VDC?
     - 18-25VDC or battery voltage?
   - 12-17VDC?
   - 18-25VDC or battery voltage?
   - 0VDC?
     - 18-25VDC or battery voltage?
   - 18-25VDC or battery voltage?
     - Measure resistance across the circuit breaker.
   - Replace intermediate charger harness (ICH).
   - Replace the top harness.
   - Replace the top dashboard.
   - 0VDC?
     - 18-25VDC or battery voltage.
   - Replace the controller.
   - Replace the main harness.
   - Replace circuit breaker.

**Charger Tests**
Note: The charger will not work properly if the battery voltage is too low. Boost charge the batteries to bring the voltage up to a level that the HP1202B off-board charger will see, then plug the charger into the charging port and charge for 8 hours.

1. Make sure that the charger (C) is plugged into a working electrical outlet.
2. Check the charger harness (CH) and the intermediate charger harness (ICH) for loose and/or corroded connections. Clean or tighten as necessary.
3. Check charger harness (CH) and intermediate charger harness (ICH) for continuity. Replace as necessary.
SCENARIO 2: POWER TO CONTROL PANEL, BUT SCOOTER WILL NOT RUN.
You insert the key into the key switch. The status LED indicates power (but no BEEP code) and the battery condition meter indicates a full charge. You push the paddle and the scooter does not move.

Remove the battery pack from the scooter.

Measure resistance across BAT1 and BAT2 located on the battery box.

Less than 1 ohm?

Replace the intermediate charger harness (ICH).

Open?

Open the front control panel.
Disconnect main harness (MH2) from the top dashboard (TD1).
With the key still in the key switch, measure resistance across pin 4 (red wire) and pin 8 (white wire) on TD1.

Less than 1ohm?

Open?

Replace the top dashboard.

Remove the cover from the controller.
Disconnect the main harness (MH1) from the controller (CN7).
Measure resistance across pin 7 (red wire) on MH1 and pin 4 (red wire) on MH2.

Less than 1ohm?

Open?

Replace the controller.

Replace the main harness.
**BEEP CODE #2 – LOW BATTERY VOLTAGE**
The battery needs charging or there is a bad connection to the battery.

Charge the batteries.  
 Won’t charge?  
Open battery box. Check connections. Measure voltage on BAT- of one battery and BAT+ on the other battery. Take measurement at terminals connected to the circuit breaker (CB3 and CB6).

Measure resistance across the circuit breaker terminals (CB1 and CB2).  
Open?  
Replace the circuit breaker.

Less than 1 ohm?  
Check continuity between CB3 and CB4 (red wire) and between CB5 and CB6 (black wire). Replace as necessary.

16-24VDC or battery voltage  
Replace the intermediate charger harness (ICH).

**BEEP CODE #3 - HIGH BATTERY VOLTAGE**
An excessive voltage has been applied to the S-drive. This is usually caused by a poor battery connection.

Check the battery connections.  
Loose or poor connection?  
Clean and tighten connections as necessary.

Good connections?  
1. Prop up the scooter, so that the drive wheels are off the ground.  
2. Insert the key into the key switch and turn it to the “ON” position.  
3. Keep the paddle on the throttle pot depressed, to allow the battery level to drop.  
**Do not allow the battery meter to drop into the “RED” area.

Check the battery charger.  
**Make sure it is an APPROVED charger.  
Model: HP1202B

**NOTE: The error may only be present when going down hill and power goes back to the batteries.**
BEEP CODE #5 – SOLENOID BRAKE TRIP
The parking brake has a bad connection.

Make sure the scooter is in the drive mode. Check the parking brake and motor connections. Make sure all system connections are secure.

Separate front and rear halves of the scooter.

Measure resistance across IMH3 (orange wire) and IMH5 (blue wire) on the intermediate motor harness located on the rear frame.

Outside that range?

Less than 80 ohms but not shorted?

Unplug the intermediate motor harness (IMH1) from the motor harness (MT1). Are the pins on the connectors seated correctly?

Yes?

No?

Reseat the pins, reconnect IMH1 to MT1, and try to run the scooter.

Yes?

No?

Make sure the scooter is completely reassembled.

Turn the scooter onto its side. Remove the controller cover. Unplug the brake harness (PH10) from the controller. Are the pins on PH10 seated correctly?

Yes?

No?

Measure resistance across pin 1 (orange wire) and pin 2 (blue wire) on the brake harness (PH10).

Less than 80 ohms but not shorted?

Out of range?

Replace the controller.

Replace the power harness.

Measure resistance across pin 3 (orange wire) and pin 4 (blue wire) on the motor harness (MT1).

Less than 80 ohm but not shorted?

Replace the intermediate motor harness (IMH).

Unplug the motor brake (MB1) from the motor harness (MT2). Are the pins on the connectors seated correctly?

Yes?

No?

Reseat the pins, reconnect MB1 to MT2, and try to run the scooter.

Replace the drive train.
**BEEP CODE #6 – THROTTLE TRIP (OUT OF NEUTRAL)**
A throttle trip is indicated. Make sure the throttle is in the neutral position before switching on the scooter.

Remove the key from the key switch.
Make sure the throttle pot is not obstructed and it can return to the neutral (center) position.
Move the throttle pot forward and then reverse. Make sure that it is not obstructed.
Does it spring back to neutral the neutral position?

- Yes?
  - Insert the key into the key switch. Does the code return?
  - Yes?
    - Go to BEEP CODE # 7 to test the throttle pot.
  - No?
    - Check for obstruction. Replace if there are no obstructions.
    - No?
      - Yes?
        - OK
      - No?
        - Yes?
          - Replace the top dashboard.
        - No?
          - Replace the throttle pot.

**BEEP CODE #7 – THROTTLE TRIP/SPEED CONTROL FAULT (VOLTAGE ERROR).**
A throttle trip is indicated. This fault indicates a problem with the throttle control or speed control.

Make sure the batteries are fully charged.

Remove the battery pack.
Remove the battery pack lid.
Reinstall the battery pack onto the scooter frame.
Open the front control panel.
Insert the key into the key switch.

Insert the positive lead (red) from the multimeter into the back of pin 6 (yellow wire) on the main harness (MH2). Connect the negative lead (black) from the multimeter to BAT-. Use the BAT- terminal that is connected to ICH2. Measure the voltage.

- Out of range?
  - Yes?
    - Replace the top dashboard.
  - No?
    - Measure resistance across pin 2 (yellow wire) and pin 3 (orange wire) on the throttle pot connector.
    - Approximately 2.7k ohms?
      - Yes?
        - Replace the top dashboard.
      - No?
        - Out of range?
          - Yes?
            - Replace the throttle pot.
          - No?
            - Are the pins on the connectors seated correctly?
            - Yes?
Measure resistance across pin 1 (blue wire) and pin 2 (yellow wire) on the throttle pot connector.

Approximately 2.7k ohms?

Measure resistance across pin 2 (yellow wire) and pin 3 (orange wire) on the throttle pot connector.

Approximately 2.7k ohms?

Replace the top dashboard.

No? Replace the throttle pot.

Out of range?

No? Try to run the scooter. Does it work?

Yes? OK

Out of range?

Approximately 25VDC?

Disconnect the main harness (MH1) from the controller. Are the pins on the connector seated correctly?

Yes? Measure resistance across pin 14 (blue wire) and pin 7 (yellow wire) on the main harness connector (MH1).

Approximately 2.7k ohms?

Replace the main harness (MH).

Out of range?

No? Reseat the pins, reconnect the main harness to the controller, and try to run the scooter.

Measure resistance across pin 7 (yellow wire) and pin 6 (orange wire) on the main harness connector (MH1).

Approximately 2.7k ohms?

Replace the controller.

Out of range?

Replace the main harness.
BEEP CODE #8 - MOTOR DISCONNECTED
The motor has a bad connection.

Check all the connections and leads between the motor and the S-drive. Check the position of the freewheel switch.

Separate the two halves of the scooter. * Refer to the owner’s manual if needed.

Turn the rear half over and disconnect the motor (MT1) from the intermediate motor harness (IMH1). Measure resistance across pin 1 (red wire) and pin 2 (black wire) on the motor harness (MT1).

50 ohms but not shorted?

Reconnect the motor (MT1) and the intermediate motor harness (IMH1). Measure resistance across IMH2 (red wire) and IMH4 (black wire) on the intermediate motor harness.

50 ohms but not shorted?

Reassemble the scooter. Turn the scooter over. Remove the controller cover. Unplug power harness (PH8 and PH9) from the controller. Are the pins on the connector seated correctly?

Yes?

Measure the resistance across PH9 and PH10.

50 ohms but not shorted?

Replace the controller.

Open?

Replace the power harness (PH).

Out of range?

Replace the drive train.

Out of range?

Replace the intermediate motor harness (IMH).

BEEP CODE #9 – POSSIBLE CONTROLLER TRIP
A control system trip is indicated.

1) Make sure that all connections are secure.
   • If the code continues, then shut down the scooter and allow the controller to cool down.
   • If the problem still persists, then replace the controller (CN).
### Illustrated Parts Breakdown

#### Vehicle assembly (SB05E001)

<table>
<thead>
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<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tbody>
<tr>
<td>01</td>
<td>SB05E101</td>
<td>Front body assembly</td>
<td>1</td>
</tr>
<tr>
<td>02</td>
<td>3002325030</td>
<td>Scooter limit set stickers 250LBS</td>
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<tr>
<td>03</td>
<td>SB3A106A</td>
<td>Metal storage basket</td>
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<td>04</td>
<td>SB3P532A</td>
<td>Body on the right label Stickers</td>
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<td>05</td>
<td>SB3P531A</td>
<td>Label the left side of body Stickers</td>
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<td>SB05E102</td>
<td>After the body assembly</td>
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<tr>
<td>07</td>
<td>SB3A105A</td>
<td>Bolt group Ø10 * 57L (black zinc-plated)</td>
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<tr>
<td>08</td>
<td>SB3E601A</td>
<td>Battery box assembly</td>
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<td>09</td>
<td>SB3E410A</td>
<td>Seat Tube Assembly</td>
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<td>10</td>
<td>SB05E401</td>
<td>Seat assembly</td>
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### Front body assembly (SB05E101)

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<td>02</td>
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<td>T the knob</td>
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<td>SB3E503A</td>
<td>Pedal pad set</td>
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<td>SB3P501A</td>
<td>Head tube sheath Paint</td>
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<td>06</td>
<td>3111704011</td>
<td>Cross trough with meson drilling screw (white zinc plated)</td>
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<tr>
<td>07</td>
<td>SB3E504A</td>
<td>Front Body Section</td>
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<td>SA2P001A</td>
<td>Compression spring (white nickel-plated)</td>
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<td>Hex bolts (black zinc-plated)</td>
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<td>Front frame assembly</td>
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### Rear Body Assembly (B05E102)

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<td>SB3P137A</td>
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<td>SB2E300A</td>
<td>Transmission assembly Taiwan for</td>
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<td>SB3A102A</td>
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<td>3100108012</td>
<td>Hexagon nut M8 (black zinc-plated)</td>
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<td>Hexagon socket set screws with cone M8 * 25L (black zinc-plated)</td>
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<td>Nylon nut M6 (black zinc-plated)</td>
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<td>3070505010</td>
<td>Round of anti-dumping Ø50 * 24L (Black)</td>
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<td>19</td>
<td>3110106012</td>
<td>Large flat head socket screw M6 * 40L (black zinc-plated)</td>
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<td>20</td>
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<td>8 &quot;rear wheels 195 * 70</td>
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<td>Flat washer Ø13.5 * 23 * 2.5 (black zinc-plated)</td>
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<td>22</td>
<td>31002W6012</td>
<td>Nylon nut (1 / 2) &quot;-20UNF (black zinc-plated)</td>
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<td>SB05P501</td>
<td>Dust cover</td>
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<td>Rubber plug (left)</td>
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<td>Spring washer Ø6 (black)</td>
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<td>Hexagon socket head screw M6 * 35L (black zinc-plated)</td>
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<td>Pearl bowl washer Black</td>
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<td>On the bearing holder Black</td>
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<td>Small compression spring Ø1 * Ø12 * 23.7L</td>
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<td>14</td>
<td>SB2A201A</td>
<td>Front wheel knob</td>
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<td>Front wheel fork group Electric black</td>
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<td>Turn off limit Ø6 * 29L</td>
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<td>Stud M8 * 88L</td>
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<td>Cross trough with meson drilling screw ST4.2 * 13L (white zinc plated)</td>
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<td>SB3P113A</td>
<td>Bottom Panel</td>
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<td>29</td>
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<td>3051600010</td>
<td>Controller S-DRIVE</td>
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<td>32</td>
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<td>Front Frame Section Electric black</td>
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<td>33</td>
<td>SB3P118A</td>
<td>T-bolt compression spring White zinc-plated</td>
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<td>34</td>
<td>SB3P114A</td>
<td>T-Bolt White zinc-plated</td>
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<td>35</td>
<td>3000602029</td>
<td>Spring pin (straight groove) Ø2.5 * 14L (black)</td>
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<td>36</td>
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<td>Cross Countersunk head screws M5 * 16L (white zinc plated)</td>
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<td>37</td>
<td>SB3E604A</td>
<td>Block electrode</td>
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<td>38</td>
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<td>Nylon nut M5 (white zinc plated)</td>
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<td>39</td>
<td>SB3P117A</td>
<td>Reset torsion spring White zinc-plated</td>
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<td>40</td>
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<td>Flat washer Ø10 (white zinc plated)</td>
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<td>41</td>
<td>3100100301</td>
<td>Hexagon nut M10 (white zinc plated)</td>
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<td>42</td>
<td>SB3A104A</td>
<td>Spin lock handle set White zinc-plated</td>
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<td>43</td>
<td>3111504027</td>
<td>Set Screw M4 * 6 (black)</td>
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<td>44</td>
<td>3100310011</td>
<td>Nylon nut M10 (white zinc plated)</td>
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<td>45</td>
<td>SA2P423A</td>
<td>Pipe plug Ø25.4 * 2 (Black)</td>
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**Tiller Assembly (SB05E201)**

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<td>01</td>
<td>SB05E202</td>
<td>The combination T</td>
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<td>02</td>
<td>SB3P521A</td>
<td>Basket holder</td>
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<td>03</td>
<td>SB3P119A</td>
<td>Basket hook</td>
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<tr>
<td>04</td>
<td>3111005302</td>
<td>Cross Countersunk head screws M5 * 30 (black zinc-plated)</td>
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<tr>
<td>05</td>
<td>SB3A503A</td>
<td>Basket holder</td>
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**Dashboard and Tiller Assembly (SB05E202)**

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<td>SE06A621</td>
<td>Key, Set of 2 for Companion GC221/321/421/240/340/440, Buzz GB106 January 2010 and LiteRider GL110</td>
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<tr>
<td>02</td>
<td>SE05P508BLUE</td>
<td>Cover, Dashboard Blue for Buzz GB106 January 2010 and LiteRider GL110</td>
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<td>02</td>
<td>SE05P508RED</td>
<td>Cover, Dashboard Red for Buzz GB106 January 2010 and LiteRider GL110</td>
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<td>02</td>
<td>SE05P508SAHARA</td>
<td>Cover, Dashboard Sahara for Buzz GB106 January 2010</td>
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<tr>
<td>03</td>
<td>SE06P221</td>
<td>Plug, Rubber Delta Handle for GC240, 340, 440 and LiteRider GL110</td>
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<td>04</td>
<td>SE05P214</td>
<td>Grip bushing Black</td>
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<td>05</td>
<td>3110804131</td>
<td>Large flat head cross tapping screw ST3.5 * 13 (white zinc plated)</td>
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<tr>
<td>06</td>
<td>SB05A202</td>
<td>T the group Electric black</td>
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<tr>
<td>07</td>
<td>SA2P519A</td>
<td>T the shell Black</td>
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<td>08</td>
<td>3110306102</td>
<td>Hexagon socket head screw M6 * 10 (black zinc-plated 8.8)</td>
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<tr>
<td>09</td>
<td>30003106012</td>
<td>Spring washer</td>
<td>4</td>
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<td>10</td>
<td>SA2P215A</td>
<td>T the shaft</td>
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<td>11</td>
<td>SB3A604A</td>
<td>Harness, Main Wire (From Controller to Dash) for Buzz GB106 January 2010 and LiteRider GL110</td>
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<td>12</td>
<td>SE05E601</td>
<td>Under the front cover assembly</td>
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<td>13</td>
<td>SE05E602</td>
<td>Dashboard, Top (Assembled Complete with Electrical Components) for Buzz GB106 January 2010 and LiteRider GL110</td>
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<td>14</td>
<td>3110803131</td>
<td>Large flat head cross tapping screw ST2.9 * 13 (white zinc plated)</td>
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### Front Wheel Assembly (SB05E203)

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<td>3090106080</td>
<td>Bearing 608-2Z</td>
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<td>02</td>
<td>SB2P208A</td>
<td>Bearing sleeve Electric black</td>
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<td>03</td>
<td>SB05A201</td>
<td>8 &quot;front wheels</td>
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### Seat assembly (SB05E401)

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<tr>
<td>01</td>
<td>WC6E401A</td>
<td>Arm, Assembly Left for LiteRider GL110 and Buzz GB106 January 2010</td>
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<tr>
<td>02</td>
<td>SM5-BLK-1717-106</td>
<td>Assembly, S5 Black Complete Seating with Swivel, without Arms 17W x 17D for Buzz GB106 January 2010</td>
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<tr>
<td>03</td>
<td>3002300020</td>
<td>Seat fire stickers</td>
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<tr>
<td>05</td>
<td>WC9P453A</td>
<td>Square tube plug 32 * 32 * 2.5 (black)</td>
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<td>06</td>
<td>3111308010</td>
<td>Star Bolt M8 * 20L</td>
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<tr>
<td>07</td>
<td>3000406032</td>
<td>Flat washer Ø8.4 * Ø24 * 2 (white zinc plated)</td>
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<td>08</td>
<td>3003108011</td>
<td>Spring washer Ø8 (white zinc plated)</td>
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<td>09</td>
<td>3110408081</td>
<td>Hex bolts M8 * 25 (white zinc plated)</td>
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<td>10</td>
<td>SE1E403B</td>
<td>Block Pallet Assembly</td>
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<td>Arm, Assembly Right for LiteRider GL110 and Buzz GB106 January 2010</td>
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<td>12</td>
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<td>Handrail locking hand wheel</td>
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**Right Arm Assembly (SB05E402)**

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<td>03</td>
<td>3100108012</td>
<td>Hexagon nut M8 (black zinc-plated)</td>
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<tr>
<td>01</td>
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<td>Pad, Arm for LiteRider GL110, Buzz GB106 and Buzz XL GB116</td>
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<td>02</td>
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<td>Large flat head socket screw M8 * 30L (black zinc-plated)</td>
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<td>Large flat head socket screw M6 * 12L (black zinc-plated)</td>
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<td>WC6A402A</td>
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### Seat Swivel Assembly (SE1E403B)

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<td>3030108010</td>
<td>Lever sleeve</td>
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<td>SE1A404B</td>
<td>Seat lock handle set Electric black</td>
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<td>SE1P413B</td>
<td>Limit set</td>
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<td>SA2P416A</td>
<td>Double torsion spring φ 2.5 (black zinc-plated)</td>
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<td>07</td>
<td>WC9P453A</td>
<td>32 Cyprus 32 * 32 * 2.5</td>
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<td>SE1P529A</td>
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### Seat Tube Assembly (SB3E410A)

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<td>SA2P419A</td>
<td>Seat tube bushing Black</td>
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<td>3000604022</td>
<td>Spring pin (straight groove) Ø4 * 6L (black zinc-plated)</td>
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### Battery Box Cover Combinations (SB3E501A)

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<td>Protector pad t = 0.5</td>
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<td>3100511010</td>
<td>Protector waterproof nut LB-D-11S</td>
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<td>SB3P513A</td>
<td>Charging socket cover</td>
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<td>05</td>
<td>3111005012</td>
<td>Cross Countersunk head screws M3 * 12L (black zinc-plated)</td>
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<td>SB3A608A</td>
<td>Charger plug wire set</td>
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<td>SB3P508A</td>
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<tr>
<td>08</td>
<td>3000405021</td>
<td>Flat washer Ø13 * 1.0 (white zinc plated)</td>
<td>4</td>
</tr>
<tr>
<td>09</td>
<td>3110605052</td>
<td>Cross recessed pan head screw M5 * 16L (black zinc-plated)</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>3000405012</td>
<td>Flat washer Ø3 * Ø6.5 * 0.8 (black zinc-plated)</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>3100103011</td>
<td>Hexagon nut M3 (galvanized)</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>3052835010</td>
<td>Reset protector 35A</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>SB3P507A</td>
<td>Left decorative cover</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>SB3A502A</td>
<td>Battery box handles</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>SB3P141A</td>
<td>Battery voltage cotton 40 * 40 * 25</td>
<td>2</td>
</tr>
</tbody>
</table>
### Rear Shell Combinations (SB3E502A)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SB3P504A</td>
<td>Right Wheel Arc Cover Paint</td>
<td>1</td>
</tr>
<tr>
<td>02</td>
<td>3002343010</td>
<td>Unlock stickers 48 * 8</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>3002318010</td>
<td>Reading labels 18 * 18</td>
<td>1</td>
</tr>
<tr>
<td>04</td>
<td>SB3P503A</td>
<td>Rear shell Texture on</td>
<td>1</td>
</tr>
<tr>
<td>05</td>
<td>SB3P523A</td>
<td>Back cover oval label</td>
<td>1</td>
</tr>
<tr>
<td>06</td>
<td>SB3P505A</td>
<td>Revolver arc cover Paint</td>
<td>1</td>
</tr>
<tr>
<td>07</td>
<td>SB2P512A</td>
<td>Reflector Transparent Red</td>
<td>1</td>
</tr>
<tr>
<td>08</td>
<td>3001803010</td>
<td>Nylon Rivet Ø2.6 * Ø5 (Black R2672)</td>
<td>2</td>
</tr>
<tr>
<td>09</td>
<td>3000300010</td>
<td>Double-sided foam plastic sheet t = 1.5</td>
<td>1</td>
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</tbody>
</table>

### Foot Pad Set (SB3E503A)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SB3P524A</td>
<td>Foot pad button Black</td>
<td>4</td>
</tr>
<tr>
<td>02</td>
<td>SB3P515A</td>
<td>Foot pad</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>SB3P525A</td>
<td>Buckle under the foot pad Black</td>
<td>4</td>
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</tbody>
</table>
### Front Body Section (SB3E504A)

<table>
<thead>
<tr>
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<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SB3P526A</td>
<td>Foot screw Black</td>
<td>4</td>
</tr>
<tr>
<td>02</td>
<td>3002300140</td>
<td>Serial number sticker 64 * 34</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>SB3P502A</td>
<td>Front Body Texture on (Black)</td>
<td>1</td>
</tr>
<tr>
<td>04</td>
<td>3002380020</td>
<td>Battery warning labels 1 80 * 31</td>
<td>1</td>
</tr>
<tr>
<td>05</td>
<td>SB3P602A</td>
<td>Electrode Insert Nickel</td>
<td>3</td>
</tr>
<tr>
<td>06</td>
<td>3002318020</td>
<td>Stickers warning pinch 18 * 18</td>
<td>2</td>
</tr>
<tr>
<td>07</td>
<td>3002380030</td>
<td>2 battery warning label 80 * 31</td>
<td>1</td>
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</table>
### Battery Box Assembly (SB3E601A)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SB3E501A</td>
<td>Combination of the battery box cover</td>
<td>1</td>
</tr>
<tr>
<td>02</td>
<td>3052512010</td>
<td>Battery 12V12AH</td>
<td>2</td>
</tr>
<tr>
<td>03</td>
<td>3000325020</td>
<td>Velcro hair surface 25 * 90</td>
<td>4</td>
</tr>
<tr>
<td>04</td>
<td>3000325010</td>
<td>Velcro gill surface 25 * 90</td>
<td>4</td>
</tr>
<tr>
<td>05</td>
<td>3110904021</td>
<td>Cross pan head tapping screws ST4.2 * 20L (white zinc plated flat tail)</td>
<td>4</td>
</tr>
<tr>
<td>06</td>
<td>SB3P516A</td>
<td>Electrode clip holder (1) Black</td>
<td>2</td>
</tr>
<tr>
<td>07</td>
<td>SB3P601A</td>
<td>Electrode folder Nickel</td>
<td>3</td>
</tr>
<tr>
<td>08</td>
<td>SB3A504A</td>
<td>Under the battery box cover Black</td>
<td>1</td>
</tr>
<tr>
<td>09</td>
<td>3110903041</td>
<td>Cross pan head tapping screws ST3.5 * 20L (white zinc plated flat tail)</td>
<td>12</td>
</tr>
<tr>
<td>10</td>
<td>SB3P130A</td>
<td>Iron lock Electric black</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>3111005041</td>
<td>Cross Countersunk head screws M5 * 10L (white zinc plated)</td>
<td>2</td>
</tr>
</tbody>
</table>
**Electrode Block II (SB3E602A)**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>SB3P601A</td>
<td>Electrode folder Nickel</td>
<td>4</td>
</tr>
<tr>
<td>02</td>
<td>SB3P519A</td>
<td>Electrode clamper (2) Black</td>
<td>1</td>
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</tbody>
</table>

**Lower Dashboard Assembly (SE05E601)**

<table>
<thead>
<tr>
<th>ITEM</th>
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</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>3110103031</td>
<td>Large flat head cross tapping screw ST3.5 * 16 (white zinc plated)</td>
<td>2</td>
</tr>
<tr>
<td>02</td>
<td>SE05E603</td>
<td>Paddle, Assembly with Potentiometer for Buzz GB106 January 2010 and LiteRider GL110</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>SE05P507</td>
<td>Panel, Lower Dashboard for Buzz GB106 January 2010 and LiteRider GL110</td>
<td>1</td>
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</tbody>
</table>
Front Cover Assembly (SE05E602)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>SE06P511</td>
<td>Vice-speed control knob</td>
<td>1</td>
</tr>
<tr>
<td>02</td>
<td>SE05P509</td>
<td>T to the black ABS panels</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>SB3P608A</td>
<td>Gauge fixed film PCABS</td>
<td>1</td>
</tr>
<tr>
<td>04</td>
<td>3110103011</td>
<td>Large flat head cross tapping screw ST2.9 * 8 white zinc plated</td>
<td>2</td>
</tr>
<tr>
<td>05</td>
<td>SE05A601</td>
<td>Cover panel line group</td>
<td>1</td>
</tr>
<tr>
<td>06</td>
<td>30010902012</td>
<td>Cross pan head screw ST2.2 * 8 (black zinc-plated)</td>
<td>2</td>
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</table>
### TOCOS5KVR Assembly (SE05E603)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>3111504022</td>
<td>Hexagon socket set screws M4 * 6L (black zinc-plated)</td>
<td>2</td>
</tr>
<tr>
<td>02</td>
<td>SE1P232A</td>
<td>5KVR Holder SE1P232A Reform</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>SE05A602</td>
<td>TOCOS5KVR line group</td>
<td>1</td>
</tr>
<tr>
<td>04</td>
<td>SE05P511</td>
<td>Paddle, Plastic only (no potentiometer) for Buzz GB106 January 2010 and LiteRider GL110</td>
<td>1</td>
</tr>
<tr>
<td>05</td>
<td>3110704081</td>
<td>Large flat head screw Cross M4 * 12</td>
<td>2</td>
</tr>
</tbody>
</table>