

Pro Series Owner's Manual



2022 Edition

For: Pro+



Thanks for Choosing Voltrium

We are committed to bring you desirable & environmentally friendly Micro Transport.

Developed in Melbourne Australia, each vehicle is designed and tinkered on by a team of talented, passionate engineers and technicians who's mission is to put a smile on your face.

Because to us it is more than just a scooter.

-The Voltrium Team.





Important! Always wear a helmet & obey all laws!

Variants of the Rogue series scooters conform to the Australian Personal Mobility Device (PMD) vehicle category in some states of Australia.

Please check with your local state & territory's road rules before riding in public.

To minimise risk, riders should wear safety equipment such as:

- Full Face Motorcycle Helmet
- Full Face Bicycle Helmet
 - Cycling Goggles
 - Cycling Gloves
 - Elbow pads
 - Knee Pads
 - Closed Footwear

The rider assumes ALL risks associated with operating this scooter.

The recommended rider age is 14+

Precautions



Do Not Hose down or pressure wash. Use a towel with soapy water to clean.



Do not jump the scooter.



Do not overload the scooter.



Do not allow the battery to fall into a state of deep discharge

Do not ride with more than 1 person onboard



Periodically maintain the scooter and check for proper operation before riding.



Use Genuine replacement parts & Accessories. Damage & Improper performance of the scooter may occur otherwise

Package Contents

1x Pro Series Scooter

1 x Charger

1 x Tool Kit

1 x Spare Fuse

1 x Seat

1 x Seatpost & Clamp

Accessories (Optional)

Assembly







Carefully remove the scooter from the box

Unfold the scooter by pressing down on the Folding lever with one hand while gently pulling up on the steering column with the other.

Fully Extend the Steering column to the upright position, until you feel the mechanism lock into place.

Affix handlebars, by firstly, removing the top cap of the handle bar clamp.

Once removed, place handlebars onto the bottom cap. The correct orientation is with the throttle on the right hand side.

Ensure the alignment of the handlebar assembly is true with the front wheels of the scooter.

Tighten the bolts on the handlebar assembly clamp.

It is recommended that you use high quality workshop grade tools to complete the assembly.



Fasten the Speedometer and bracket assembly to the underside of the handlebar clamp with the existing 2x M6 bolts.

Assembly





Insert the seat stem by passing the locking feet through the slits of the foot board and then pushing the stem forwards to lock it into the battery box.

Secure seat with the knob. Fasten until handtight.

Place seat onto the seatpost, adjust the rake and then tighten the two nuts on the underside of the seat evenly.

Remove the bottom X bar from the headstem area. Bolt the twin headlight assembly to the now vacant 4 holes with the original 4 bolts.

Attach the horn to the same headlight bracket. Using the top right hand side nut and bolt to affix the horn.

The rear nut of the horn can be positioned in the cutout of the frame for flush fitment as pictured.



Controls Layout

1.	Speedometer
2.	Switch Cluster
3.	Brake Levers
4.	Throttle
5.	HIGH /ECO mode switch
6.	Ignition Key



Charging



The charging process takes between 2 - 4 hours.

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When the scooter's battery meter is flashing on 0 bars, recharge immediately



- The charge port is located on the front right hand side of the battery box. Ensure the cap is closed when not charging to prevent water ingress.
- Insert the Round, three pronged connector into the charge port, then insert the AC plug into a power socket. Switch power on to charge.
 - LED1 and LED2 will be red when scooter is charging.
- LED2 will turn green and cooling fan will stop once scooter is fully charged.



Ensure charge port is dry before inserting charger.

In extreme temperature conditions, the battery may not charge.

Avoid charging under direct sunlight

Let the scooter cool down for at least 10 minutes after riding before charging.

Ensure cooling fan on charger is operating at all times during charging.

Pre - Ride Checks

- 1. Check Tyre Pressures (50PSI On Road Tyres, 40PSI Off Road Tures)
- 2. Ensure all bolts and screws are tight
- 3. Ensure Chain drive system is properly lubricated, adjusted and clean.

Starting up the scooter

- Turn the ignition key clockwise by 1 "Click
- 2. Once the dashboard is switched on, the scooter is ready to go.



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Do not apply throttle when dismounted.

It is best practice to switch the scooter off when parked and not in use.

Headlights

Flip the headlight switch on the left cluster to turn on

The headlight(s) have 3 modes that can be cycled through by switching the light on and off:

Mode 1: High Beam - Full Brightness Mode 2: Low Beam - Half Brightness Mode 3: Strobe - Flashing

Horn

1.

Press horn button on the left cluster to activate

Ride Modes

Eco Mode

High Mode

- Limits top speed of scooter to 25km/h (Can be adjusted in Psettings)
- Unrestricted performance.
- Reduces performance of scooter

The ride modes are changed by pressing the Red button under the throttle



Instrumentation



Brake Override with e-ABS

The Pro series scooters are equipped with brake override switches that completely disable any throttle inputs when either the front or rear brakes are applied.

e-ABS stabilises the scooter under hard braking by utilising regeneration to balance out the overall braking force when only one brake is applied.

Performance Settings (P-Settings)

The rider can adjust the performance characteristics of the scooter via a web based application hosted on the Wechat platform

1. Download Wechat

Visit Google Play Store on Android devices and App store in iOS devices and search for an app titled "Wechat". Download & Install

2. Register an account

Create an account on Wechat with your mobile number or Facebook account.



s	gn up by phone	number
Name	James	
Region	Australia (+61)	
Phone		
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3. Log in to Wechat

Enter your account details and log into Wechat

Performance Settings (P-Settings)

4. Open the QR scanner on the Wechat App

On the top right hand corner of the application, tap the plus icon, then tap scan.



5. Scan QR Code and install Web App to Wechat

Scan the QR code to the right with the QR Scanner







6. Tap on "Discover" tab on Wechat

After successfully installing the P-settings app, you can access it under the <u>"discover"</u> tab on the Wechat landing page. Navigate to the <u>"mini</u> <u>programs"</u> section

Performance Settings (P-Settings)

7. Tap on the YuyangKing Drive App

It is the application with the blue logo as pictured to the right hand side.

8. Select English for language and Bluetooth for connectivity

Tap on your selections

9. Tap on "Start Discovery"

The app will begin to search for the Pro+ to pair with. Ensure the scooter is switched on and you are standing in close vicinity of the Pro+.



8 Mini Programs Nearby

My Mini Programs

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Yuyangking Drive

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Performance Settings (P-Settings)



General Setting

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Soft start switch

Soft start adjus

Overspeed switch

Overspeed ratic

Low speed ratio

Hard start switch

11. Tap on "Operation" and then "General Settings:

10. Tap on Yuyangking K1A to pair with the controller on the Pro+

Allow briefly for the app to pair with the Pro+'s controller.

This will give access to the P-settings menu

12. Adjust P-Settings

You can now adjust the P-settings of the scooter according to the guide on the next page

Adjusting P-Settings on the Companion App

Only several programmes should be adjusted. Consult the list below:

Fast Start & Soft Start

Only enable either one or the other. Soft Start is smoother than Fast Start overall.

Fast Start - Adjusts sensitivity of initial takeoff - 1 = Smoothest 10 = Aggressive Soft Start - Adjusts sensitivity of initial takeoff - 1 = Smoothest 10 = Aggressive

Cruise Control

Auto Cruise control is not recommended unless the rider is experienced with the feature and assumes all risks with using it. Auto Cruise enables when a scooter holds a constant speed for a designated time period. The rider can release the throttle and the scooter will maintain the same speed.

> Manual Cruise - Enables the switch gear controlled cruise control - ON or OFF Auto Cruise - Enables automatic cruise control - ON or OFF

EBS Brake

It is recommended to set EBS setting to max (10) for improved braking performance and less wear and tear on the friction braking system

EBS Brake - Adjusts level or regenerative braking - 1 = Lowest, 10 = Highest

Current Limits

Do Not set to above 90% in Hot Climates for more than 15 minutes of full throttle high load & aggressive riding to avoid overheating of the motor.

Do not set to above 80% for towing. Failing to do so may cause the motor to overheat.

Battery Current Limit - Governs power of scooter Phase Current Limit - Governs power of scooter

Adjust Accelerator Curve

Adjust Accelerator Curve - Enables smooth takeoffs while retaining aggressive rolling acceleration

<u>BOOST</u>

BOOST - Maintains peak phase current for longer periods of time for improved acceleration.

Default Settings

Fast Start - OFF Soft Start - ON - Level 3 Manual Cruise - ON Auto Cruise - OFF EBS Brake - ON - Level 10 Battery Current Limit - 90% Phase Current Limit - 90% Adjust Accelerator Curve - ON BOOST - OFF



P settings not listed on this manual are for workshop use only. Adjusting P settings beyond the list can cause improper performance of the scooter.

Fault Finding using the Companion App

< Device state	·•• • •	< Device state	··· •
Basic Information		Fault condition	
Model	YKZ7280JA-8 0920	Over current	Normal
Tire diameter	0.5 m	Under voltage	Normal
Pole-pairs	23	Hall failure	Normal
Real-time stata		Phase lacking	Normal
Speed	0 km/h	Over temperature	Normal
Rotation speed Default display electric ve	0 /pm Hicle configuration	Controller protection	Normal
Singletimeage	0 km	Breaking state	Normal
Voltage	57 V	Rotor failure	Normal
Current	0.A	Others	
Temperature	24 °C	Running mode	Normal
		Working state	with Half
Operatio	00 (Operation	

Besides adjusting the P-settings of the Pro+, the companion app can be used to diagnose any issues and assist with troubleshooting should there be any faults.

Towing

When towing, adjust P-settings of the scooter as described in the section above. Lower Battery & Phase current to 80% to prevent overheating of Motor.

Switching between Sit Down & Stand up Mode

The Pro+ is designed to be ridden either seated or standing up without compromise. To switch from seated to standing configuration follow the process below.

1. Remove & Stow Seat

- Unscrew the knob on the rear of the seat stem
- Release the seat from the scooter by lifting the seat and post rearwards and upwards of the scooter.
- Stow seat away in storage



3. Raise the handlebars to the desired height.

- Lift the steering column upwards.
- There is a mechanical limiter.



- 4. Tighten Telescopic Mechanism Clamp
- Use an 8mm Allen Key to tighten the two M8 Bolts on the side of the Telescopic Mechanism Clamp.
- The cabling may need slight rearrangement





- 2. Loosen Telescopic Mechanism Clamp
- Use an 8mm Allen Key to loosen the two M8 Bolts on the side of the Telescopic Mechanism Clamp.

Folding

The Pro+ folds and the steering column locks into place for ease of carrying.

1. Remove & Stow Seat

- Unscrew the knob on the rear of the seat stem
- Release the seat from the scooter by lifting the seat and post rearwards and upwards of the scooter.
- Stow seat away in storage



• Pull the safety pin out of the socket on the gooseneck



3. Pull Folding Lever

- Pull firmly backwards.
- Watch your head as the steering column will begin to fold down.



4. Lower Steering Column

- Fully lower the steering column until it locks into place in the folded position
- Re insert the safety pin into the gooseneck





Maintenance



Electronics Maintenance Free



Chain & Sprockets Replace every 1500 - 2000km

Clean & Lubricate with Spray degreaser and quality motorcycle grade Chain lube as needed.

Tighten chain at 100km and then every 750km after (or as required).



Brakes Replace Pads when running low.

Replace Hydraulic fluid and bleed braking system every 2000km.



Nuts and Bolts Tighten every 1500km (or as required)



Cosmetics Clean and remove dirt as necessary. DO NOT hose the scooter down.



Wheels & Tyres Maintain at 40 PSI



Do not carry out electronic repairs without guidance from Voltrium.



Use genuine parts for repairs and maintenance.

It is recommended that repairs and maintenance be carried out by a professional, experienced technician

Voltrium Warranty

What is covered by this warranty?

Voltrium covers the Voltrium branded scooters, accessories against defects arising from manufacturing and materials and when the products are using in accordance with our guidelines. The cover begins from the date of the original retail purchase by the end - user purchaser.

Warranty Periods

Scooter (Excluding Battery) 1 Year Battery Packs 2 Years

What is not covered by this warranty?

This warranty does not apply to:

(a) Consumable parts including but not limited to tyres, brake pads, chains and sprockets that are diminish over time from operation, unless the failure has occurred due to a defect in materials or workmanship

(b) Cosmetic damage, including but not limited to scratches and dents unless failure has occurred due to a defect in materials or workmanship.

(c) Damage caused by use with a non genuine component or product.

(d) Damage caused by accidents, abuse, misuse, fire, liquid contact, natural disasters or other external causes.

(e) Damage caused by operating the vehicle outside of specified guidelines.

(f) Damage caused by DIY (Do it Yourself) modifications or repairs.

(g) To a Voltrium product that has been modified to alter functionality or capability without written permission of Voltrium

(h) To defects caused by normal wear ϑ tear or otherwise due to normal aging of the Voltrium product

(i) Products that have been obtained by theft or other illegal means or if there is no method of proving ownership of the product.

Support & Information

Contact Information

Voltrium Tech Pty Ltd 71B Sarton Rd Clayton, Vic 3168 (03) 9056 9063

Extension 1 for Spare Parts Extension 2 for Technical Support

Technical Support email: support@voltrium.com.au

Website: www.voltrium.com.au



https://www.facebook.com/VoltriumGlobal



https://www.instagram.com/voltrium_au/?hl=en



https://www.youtube.com/channel/UCZo2SLpjfqEV0plVkubVWYA





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