



Tips & Advice

Continue to build your skills/knowledge!

Revisit the [skills/knowledge](#) checklist occasionally, and keep building your skills until you have each of these items checked off.

Ground School Lessons:

- ☐ Understanding Regulations (FAR 103)
- ☐ Understanding U.S. Airspace (Airspace and Sectionals)
- ☐ Understanding Mindset & Risks (Decisions & Attitude)
- ☐ Understanding Basics of Flight (Basic Aerodynamics)
- ☐ Understanding the Sky (Weather)
- ☐ Understanding PPG Gear (Wings, motors, etc)

You can download the pdf checklist here:

 [USPPA Skills and Knowledge Checklist.pdf](#)

Also, print the USPPA PPG 1-3 Syllabus and make sure you can check off each topic on the syllabus:

 [USPPA PPG 1-3 Syllabus.pdf](#)

Additional equipment

Focus on takeoffs/landings for the first little while

Ideally, we want to see you get to 25 flights as quickly as possible to help you to feel more confident with your takeoffs and landings. I encourage you to focus on doing pattern work and dialing in your ability to land right where you meant to. Once your spot landings and general takeoff/landing technique is dialed in, you will feel more confident to go out and explore more and have fun flying. **Remember...you are always welcome at any of our courses!!**

Keep Learning

You have the Powered Paragliding Bible. Please read through the whole thing! Now that you've completed the basic training course and have a few flights under your belt, you will understand and appreciate the info in that book a lot more than you would have before training. Read it all, and then reread it all down the road. You'll be surprised how much more some of those concepts and ideas will click once you've been flying for a while. Also, don't forget that you can access the Bandarra Academy videos.

Connect with Others

Pilots who connect with other local pilots tend to progress faster than those who stay alone. If you're on Facebook, find a local group and connect with people and fly with them. It



will make a huge difference for you! Also, join our Facebook group to find out when/where we'll be flying. We post about upcoming fly-ins and other events you might want to participate in. You can join it here: <https://www.facebook.com/groups/447949346619126/?ref=share>

Apps, Books, and Websites

Apps

Flight Logging/Airspace

Gaggle (log your flights) (iOS and Android) - <https://www.flygaggle.com/>
Flyskyhy (iOS and Android) - <https://flyskyhy.com/>
PPG Flyer (iOS only) - <https://apps.apple.com/us/app/ppg-flyer/id1495546556>
PPGpS (Android only) - <http://www.ppgps.info/>
B4UFLY (check the airspace where you are before you fly) - https://www.faa.gov/uas/getting_started/b4ufly

Weather

Wind Speed (iOS only) - <https://lwbrandsllc.com/> | [Wind Speed Forecast App on the App Store](#)
Windy (iOS and Android) - <https://www.windy.com/>
WindAlert (iOS and Android) - <https://www.windalert.com/>
UAV Forecast (iOS and Android) - <https://www.uavforecast.com/>
Wunderground (iOS and Android) - <https://www.wunderground.com/>
AccuWeather (iOS and Android) - <https://www.accuweather.com/>
The Weather Channel (iOS and Android) - <https://weather.com/>
MyRadar Pro (iOS and Android) - <https://myradar.com/>
Storm Radar (iOS) - [Storm Radar: Weather Tracker on the App Store](#)
Lightning Pro - [My Lightning Tracker & Alerts on the App Store](#)
Density Alt+- [Density Altitude + on the App Store](#)
WindyLookout (UT specific) - [Windy Lookout on the App Store](#)
Weather - [The Weather Channel on the App Store](#)

Weather Videos

Weather 101 Cloud Types Video - [Weather 101: A Tutorial on Cloud Types](#)
Wind and Thermals for Paragliding - [wind and thermals for paragliding](#)
Meteorology Part 1: [Private Pilot tutorial 11: Weather Theory \(Part 1 of 3\)](#)
Meteorology Part 2: [Private Pilot Tutorial 11: Weather Theory \(Part 2 of 3\)](#)
Meteorology Part 3: [Private Pilot Tutorial 11: Weather Theory \(Part 3 of 3\)](#)

Others

Pure Gas (iOS and Android) (A list of ethanol free gas stations) - Pure-gas.org



Ryan Carlton (Hot air balloon forecast - Website only) - [Ryan Carlton](#)

Books

Understanding the Sky - [Understanding the Sky | Weather Book for Pilots | Cross Country Shop](#)

50 Ways to Fly Better - Part 1 - <https://amzn.to/44viu30> and Part 2 - <https://amzn.to/3Ug5oR2>

PPG Bible - <https://amzn.to/3ltnywg>

Maintenance Notes

Carburetor Tuning

One of the most valuable skills you'll want to develop is how to tune your carburetor. You may need to tune it from season to season and from one elevation to another. This video show's how to do it:

▶ How to adjust the low speed needle on the Vittorazi Moster 185 carburetor. Scout user ma...

Troubleshooting your motor:

[Mx: Motor Problems - FootFlyer](#)

[Troubleshooting your paramotor](#)

Spark Plug

Spark Gap should 0.9 mm

Belt

How tight should the belt be? You can use a tuning app on your phone to measure the frequency when you strum the belt. The Moster 185 Plus (clutched) uses a belt with **13** grooves. If you have a different motor with a belt with 15 grooves, the frequencies are different. See the info below:

Monster 185 Plus (clutched) - Belt model: Optibelt **13** GOLE PJ483

When the belt is new, it should measure: 500-520Hz (only new)

When re-tensioning, you should measure: **430-450Hz**

Pitch (Tuning app to check belt tension) iOS - [Pitch - Chromatic Tuner App by Frozen Ape](#)

Compression port can be cleaned carefully with a 2.5mm drill bit inside the cylinder head. The symptom for a blocked compression port is that the pull cord is really hard to pull.

Vittorazi Tutorial Videos

[Vittorazi Motors TUTORIAL - YouTube](#)



SkysportsUSA Tutorial Videos

- ▶ Quick And Dirty: Vittorazi Moster 185 Plus Clutch Spring Install
- ▶ Quick and Dirty: Vittorazi Moster 185 Pull Start Trouble Shoot

Other General Videos & Tips

- ▶ 3 Pro Tips to Dial In Your Landing
- ▶ Flaring Too High (Are you flaring too high? Watch this video)

Wingovers - <https://youtu.be/cNQd-66o09s>

Wingovers - <https://youtu.be/jj5jSstOGiY>

Preflight Video

- ▶ Pre Flight Checks - Top Tips For Paramotoring

Ground Handling

Ground handling skills/tips: ▶ Théo de Blic's Tutorial - Basic Ground Handling : Cobra Launc...

Improve your kiting skills: ▶ THIS Paragliding EXERCISE Will Improve Your Kiting Skills 101%

Forward Launch

Proper technique (no motor) - ▶ Forward Launch - Top Tips for Paramotoring

Forward launch tips - ▶ Forward Launch Tips and Pointers

Adjusting to crosswind - ▶ Paramotor Take off -- Forward Launch Tip - Adjusting to a cross w...

Landings

Compilation - ▶ Paramotor landing Videos

Reverse Launch

<https://youtu.be/TJGBBEnMhF8>

Failed Landings

Early Flare - <https://www.facebook.com/jeremy.langejans/videos/10201155602389539/>

Did not dampen the wing - <https://www.facebook.com/todd.falstad/videos/10213687860618416/>

Foot positioning. Don't anchor yourself - ▶ Paramotor Landing Fail 16.12.2017

Failed Launches

Too deep in the brakes -

https://vimeo.com/269308938?fbclid=IwAR316_XNfTNAg5wWr9y_qn1ooWFAOwkHP3Pb3jA3Kl7gcaPACBif5HltG1s



Got in the seat too early - <https://www.youtube.com/watch?v=3EPLrQ8iRVU>

Trying to fly without wing stable overhead - [▶ Paramotor Failed forward launch.](#)

Didn't yaw/pivot with the wing - [▶ PARAMOTOR FAIL FORWARD LAUNCH 3](#)

No helmet and should have done a reverse - [▶ Epic Paramotor Fail](#)

Legs gave out? [▶ Powered paraglider turning to a turtle](#)

Turtle - Should have done a reverse - [▶ Toms first turtle](#)

Other

How to ski launch in the snow - [▶ Team Fly Halo Motor Minute - Paramotor Ski Launch](#)

How to pack your wing as small as possible:

[▶ PACK YOUR GLIDER AS SMALL AS POSSIBLE](#)

GroundHandling Skills Challenge

[GroundHandling Challenge — Andre Bandarra](#)

[▶ GroundHandling Challenge Exercises - GH JOB - BANDARRA](#)

Basic Concepts:

Bernoulli vs Newton (Basics): [▶ Bernoulli vs. Newton - GH JOB - BANDARRA](#)

Big Ears (Basics): [▶ Big Ears - Basics - BANDARRA](#)

Glide Ratio (Basics): [▶ Glide Ratio - Basics - BANDARRA](#)

Porosity (Basics): [▶ Porosity - Basics - BANDARRA](#)

Pre-flight Checks (Basics): [▶ Preflight Checks - Basics - BANDARRA](#)

Ridge Lift (Basics): [▶ Ridge Lift - Basics - BANDARRA](#)

Home Maintenance:

How to Concertina Pack: [▶ How to Concertina Pack Your Wing - BANDARRA](#)

How to Replace a Paraglider Line: [▶ How to Replace a Paraglider Line - BANDARRA](#)

How to Tie a Brake Knot: [▶ How to Tie Brakes on a Paraglider - BANDARRA](#)

Wing Check at Home: [▶ Wing Check at Home - BANDARRA](#)

Wing Maintenance: [▶ Does Sand Destroy your Wing? - BANDARRA](#)

Flying Videos:

Flying in Super Strong Wind: [▶ Flying in SUPER STRONG Wind! - BANDARRA](#)

Groundhandling Theory:

Pitch, Roll and Yaw: [▶ Roll, Pitch & Yaw for Paragliders - GH JOB - BANDARRA](#)

'The Sticking Point': [▶ Paraglider "Sticking Point" - BANDARRA](#)

The Wind Window: [▶ Groundhandling Principles with a Kite Day 25 - 30 Day Youtube Challe...](#)



Visualising Airflow on a Paraglider Model:

▶ Intro - Uncollapsible Paraglider Part 1 - BANDARRA

Visualising Rotor at Home: ▶ Seeing Rotor! On the Lee side of a mini mountain Day 6 - 30 ...

Groundhandling General:

Dry Runs and Taxiing with the Motor (PPG Training):

▶ Dry Runs and Taxiing with a Motor - Day 2 Learning to fly a Paramotor - BANDARRA

5 Top Tips Before You Groundhandle (GH Job):

▶ 5 TOP TIPS for Groundhandling Prep - GH JOB - BANDARRA

Groundhandling with Gavin McClurg:

▶ 10 Groundhandling - Gavin McClurg's Mountain Masterclass - BANDARRA

Groundhandling School: ▶ 1st Ever GH Retreat - GHR1 - BANDARRA

Practising Active Flying (GH Job): ▶ Practicing Active Flying - GH JOB - BANDARRA

Seeing Airflow on a Real Wing: ▶ Paraglider Airflow with Tell Tales - BANDARRA

Side Control (GH Job): ▶ Side Control - GH JOB - BANDARRA

The Basic Groundhandling Challenge Exercises:

▶ 4 Basic Groundhandling Exercises - BANDARRA

The Second Brake: ▶ Avoiding Collapses with "Secondary" Brake - BANDARRA

The Square (GH Job): ▶ The Square! - GH JOB - BANDARRA

Which Line Should You Cut?: ▶ Which Line Should You Cut? - BANDARRA

Ground Handling Shortcuts

▶ GROUND CONTROL (SHORTCUTS) Paraglider training demonstration

Strong Wind Tips - ▶ Strong Wind Tips - GH JOB - BANDARRA

Top Tips for Beginners

▶ Landing - Top Tips for Paramotoring

▶ Ground Handling - Top Tips for Paramotoring

▶ Nil Wind Take Offs - Top Tips for Paramotoring

▶ Forward Launch - Top Tips for Paramotoring

▶ Reserve Deployments - Top Tips for Paramotoring

▶ Pre Flight Checks - Top Tips For Paramotoring

▶ How to fold a Paraglider - Top Tips for Paramotoring

▶ Wing Untangling - Top Tips for Paramotoring

▶ Cross Country Preparation - Top Tips for Paramotoring

▶ Dynamic Manoeuvres - Top Tips for Paramotoring

Advanced Tips

▶ Advanced Ground Handling - Top Tips for Paramotoring

▶ Advanced Forward Launch - Top Tips for Paramotoring



- ▶ How to Foot Drag - Top Tips for Paramotoring
- ▶ Trimmers & Speed Bar - Top Tips for Paramotoring
- ▶ Strong Winds - Top Tips for Paramotoring
- ▶ How to fit a reserve to a Paramotor - Top Tips for Paramotoring
- ▶ Water Landings - Top Tips for Paramotoring
- ▶ How to Throw and Go (A Lockdown Special)
- ▶ PRO TIPS TO AVOID GETTING DRAGGED IN HIGH WIND KITING

Other Useful Videos:

- Porosity Test Explained (Servicing): ▶ 01 Porosity Test - Servicing a Paraglider - BANDARRA
- Canopy Inspection (Servicing): ▶ 02 Canopy Inspection - Servicing a Paraglider - BANDARRA
- Line Inspection (Servicing): ▶ 03 Line Inspection - Servicing a Paraglider - BANDARRA
- Line Replacement (Servicing): ▶ 04 Line Replacement - Servicing a Paraglider - BANDARRA
- Line Measuring (Servicing): ▶ 05 Line Measuring - Servicing a Paraglider - BANDARRA
- Line Trimming (Servicing): ▶ 06 Line Trimming - Servicing a Paraglider - BANDARRA
- Understanding a Report (Servicing): ▶ 07 Report - Servicing a Paraglider - BANDARRA
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Instructor Resources

Important Information

USPPA Instructors play a vital role in ensuring we preserve, promote, and enhance the sport!

Congratulations on completing the USPPA Instructor and/or Tandem course with Epic Paramotor.

As you begin to teach or offer tandem flights, more people will be joining our flying community through you. We hope you will take your job seriously as you introduce more people to our sport.

Never Stop Learning

We hope you continue to build your skills and knowledge as you gain experience teaching others. Spend time with other instructors and schools. Make it a goal to improve your curriculum and your teaching abilities continually.

Recommended Books:



[Paraglider and Paramotor Instructor - FootFlyer](#)
[Understanding the Sky | Weather Book for Pilots | Cross Country Shop](#)

Syllabus and Checklists (for your students):

You can download the skills and knowledge pdf checklist here:

 [USPPA Skills and Knowledge Checklist.pdf](#)

Also, the USPPA PPG 1-3 Syllabus here:

 [USPPA PPG 1-3 Syllabus.pdf](#)

 [Sessions.pdf](#)

Get listed on the USPPA Website

Follow these steps to ensure you get listed on the USPPA school directory.

- 1) I need to submit your instructor rating on the USPPA website. Once the rating is approved (you'll receive an email), you can continue to the next step.
- 2) Change your USPPA membership from "individual" to "school." You can upgrade your membership by clicking here: [USPPA Instructor Yearly Membership](#)
- 3) .Once you upgrade your membership, you'll see new "Instructor Only" options in the USPPA website navigation menu.
- 4) Click on "Instructors Only" and then "Add your school to the directory." Or click here: [USPPA](#)

Once your listing is approved (which takes a day or two), it will appear in the USPPA directory.

Learn how to Submit a Rating for a Student

Instructions here: [Rating Instructions – USPPA](#)

Video tutorial here:

<https://www.loom.com/share/d1b903f1edba4341a7b624ab03c3d3a5>

Once you've watched the instruction above, you can use this link to submit a rating (this page will not load until you've completed steps 1-4 listed above): <https://usppa.org/add-rating>

Syllabus Docs

[Syllabus – USPPA](#)