## ASSEMBLY AND MAINTENANCE MANUAL





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#### Safe flying rules

- ★ Observe UL aircraft regulations.
- ★ Do not overestimate your pilot skills and never show off. Use open areas for emergency landing training.
- ★ Watch the weather forecast carefully. Do not plan long flights, when storms, fogs or frost are forecasted.
- ★ Watch fuel level (flight time and real consumption).
- ★ When Choosing the direction and height of your flight always consider possibility of emergency landing.
- ★ Always fly with reserve of speed, particularly during all start and landing manoeuvres.
- ★ Do not make any kind of aerobatics (e.g. total wingovers), even if you think, your skills and flight characteristics of your MPG can manage it.
- ★ Do not underestimate the navigation and flight planning. Do not fly into a unknown area without proper preparation and equipment (map, compass).
- ★ Fly only in good physical and mental condition.

#### MANUAL

- 1) This manual is written by the manufacturer of the MPG.
- All records must be readable, permanent and none of the pages must be pulled out.
- 3) This filled-in book is a part of technical documentation.
- 4) Total flight time, number of starts and latest issued mandatory bulletins must be transferred to the new book.
- 5) Record only measured or certified data to the technical-operating records. (After approval of commissioned inspector-technician)
- 6) The owner guarantees the accuracy of the operation records.

#### **IMPORTANT NOTES**

#### AMENDMENTS TO THE MANUAL

If there is change of flight rules or a required change to the construction of MPG, announcements of these changes will be published in bulletins (e.g. in Pilot magazine). Each owner of MPG must take an appropriate action and implement this change and make record of this in the relevant part of this handbook.

Every owner, user and pilot of this MPG must thoroughly familiarize themselves with this manual.

## THIS PRODUCT DOES NOT COME UNDER CERTIFICATION OF CIVIL AVIATION AUTHORITY CR AND IT IS OPARATED ON USERS OWN RISK.

ALL INTENTIONAL SPIRALS, FALLS AND AEROBATICS ARE PROHIBITED.

All construction changes to the MPG altering the original certified setup must be authorised by commissioned inspector-technician, who registered this MPG.

Any damage to the MPG must be notified to manufacturer of relevant inspector-technician, who recommends service, supervises the repair and makes technical check of the MPG afterwards. He will make a record of this in the documentation of the MPG.

# TECHNICAL COMMITTEE LAA CR (Light Aircraft Association of Czech Republic)

represented by Mr. ..... certifies, that ,according to authorisation from Civil aviation authority CR given to test airworthiness of aircraft, this MPG complies in construction, used materials, performance and characteristics with the UL-2 directive, and belongs to the group:

| Powered ParaGlider | PPG | PPG |
|--------------------|-----|-----|
|                    | 110 |     |

| The name MPG – type |       |
|---------------------|-------|
|                     | RODEO |
|                     |       |

This MPG was awarded airworthiness certificate - type:



Ρ

"Z" – prototype, unique construction

"A" – approved type of self-built construction

"P" – approved type of professional made MPG



Inspector-technician

stamp, signature .....

#### FLIGHT HANDBOOK RECORDS

#### USER'S - OWNER'S RECORD

| MPG owner              |    |
|------------------------|----|
| Name                   |    |
| Address                |    |
| ID number              |    |
| From – To (date)       |    |
| placed evidential mark | ОК |

| Change of owner        |    |
|------------------------|----|
| Name                   |    |
| Address                |    |
| ID number              |    |
| From – To (date)       |    |
| placed evidential mark | ОК |

<u>Canopy</u> (manufacturer, type, category, work number, date of manufacture, min. – max. flight weight, canopy weight): manufacturer / type category registration number date of manuf. min. – max. flight weight canopy weight

| Change of owner |  |
|-----------------|--|
| Name            |  |
| Address         |  |

last update 05.05.2009

| ID number              |      |
|------------------------|------|
| From – To (date)       |      |
| placed evidential mark | ОК - |

<u>Canopy</u> (manufacturer, type, category, work number, date of manuf., min. – max. flight weight, canopy weight): manufacturer / type category registration number date of manufacture min. – max. flight weight canopy weight

| Change of owner        |
|------------------------|
| Name                   |
| Address                |
| ID number              |
| From – To (date)       |
| registration mark OK - |

<u>Canopy</u> (manufacturer, type, category, work number, date of manuf., min. – max. flight weight, canopy weight):

| manufacturer / type       |  |
|---------------------------|--|
| category                  |  |
| registration number       |  |
| date of manufacture       |  |
| min. – max. flight weight |  |
| canopy weight             |  |
|                           |  |

|              |                        | TECHNICAL       | TECHNICAL DATA MPG     |                        |               | TECH |
|--------------|------------------------|-----------------|------------------------|------------------------|---------------|------|
|              | Undercarriage          | Engine          | Propeller              | Harness                | rescue system |      |
|              | RODEO                  | MINI 2 PLUS     | PULSE 2R2              | LEXX                   |               | DATA |
|              | NIRVANA<br>PARAGLIDING | Simonini, Italy | Nirvana<br>paragliding | NIRVANA<br>PARAGLIDING |               |      |
| Manuf.number |                        |                 |                        |                        |               |      |
|              |                        |                 |                        |                        |               |      |
|              | Manufacturer           | Namo            | Manuf number           | Voar of manuf          | weight in fly |      |
|              |                        |                 |                        |                        | min. max.     |      |
|              |                        |                 |                        |                        |               |      |
| paraglider 2 |                        |                 |                        |                        |               |      |
| paraglider 3 |                        |                 |                        |                        |               |      |
| paraglider 4 |                        |                 |                        |                        |               |      |
|              |                        |                 |                        |                        |               |      |

#### **CONTROLS**

#### Manual control

Pulling left brake MPG turns left and vice vera. Pulling both brakes at the same time, MPG brakes.

#### Throttle

Held in the left hand, pressing throttle lever increases thrust.

#### Ignition switch off

With left thumb, press and hold red button on the throttle.

#### **Central ignition switch**

With right hand, lower switch on the side of laminate part,. Ignition on - up, off - down.

#### Starter button

With right hand, press and hold black button on the throttle.

#### **Central starter switch**

With right hand, on the side of laminate part. Starter on – up, off – down.

#### **Rescue system**

With right hand, bottom part of the harness, side container or front container (depends on the harness type).

#### <u>WEIGHT</u>

paramotor, harness, carbines

2) electric starter version empty weight according to UL - 2max. flight weight

27 kg 150 kg

## ENGINE

# If the is not certified as an aircraft engine, it can fail any time! The pilot is responsible for any consequences of engine failure !

two-stroke single-cylinder engine, membrane carburettor Walbro WB37, tuned exhaust with silencer.

| cylinder capacity                   | 200 ccm              |
|-------------------------------------|----------------------|
| power on take off                   | 20 kW / 27 PS        |
| empty engine weight                 | 9,5 kg               |
| weight incl. equipment              | 12,1 kg              |
| fuel (type, oct.rating)             | BA 95                |
| consumption approx.                 | 3,5 l/h              |
| oil (type)                          | 100% fully synthetic |
| the oil-petrol mixture              | 1 : 50               |
| ignition                            | NIRVANA CIR          |
| reduction (type, origin, red.ratio) | belt NIRVANA         |
| fuel tank capacity                  | 10 I                 |

#### PROPELLER

| diameter / gradient in 75 % | 1150 mm / 16° |
|-----------------------------|---------------|
| -                           | 1200 mm / 15° |

| diameter | material  | weight | in configuration |
|----------|-----------|--------|------------------|
| 1150     | composite | 950 g  |                  |
| 1200     | composite | 1000 g |                  |

#### Rescue parachute system

type, manufacturer, manuf.number

|                         | <br>••••• | •••• | <br>•••• | •••• | •••• | •••• | <br> | •••• | • • • • | •••• | <br> | <br>•• |
|-------------------------|-----------|------|----------|------|------|------|------|------|---------|------|------|--------|
| activation way          | <br>      |      | <br>     |      |      |      | <br> |      |         |      | <br> | <br>   |
| max. fall (m/s)         | <br>      |      | <br>     |      |      |      | <br> |      |         |      | <br> | <br>   |
| with max. flight weight | <br>      |      | <br>     |      |      |      | <br> |      |         |      | <br> | <br>   |
| position                | <br>      |      | <br>     |      |      |      | <br> |      |         |      | <br> | <br>   |

#### Battery (type, parameters)

| type     | 14-cells NiCd Sanyo 1700 SCR |
|----------|------------------------------|
| capacity | 1700 mAh                     |
| voltage  | 16,8 V                       |
| weight   | 840 g                        |
| position | case in upper laminate part  |

#### Ignition NIRVANA CI

Consists of alternator, high-voltage induction coil and voltage regulator. It enables engine start already at 100 rpm. Alternator is supplied by winding, which together with regulator charges the battery during the flight.

| nominal capacity | 100 W        |
|------------------|--------------|
| regulator values | 18 V – 100 W |

#### Output 16,8 V

Output for additional equipment (i.e. warmed gloves, electronics...)

| type     | panel 4pin XLR                                 |
|----------|--|
| position | side of the laminate back part under fuel pump |
| voltage  | 16,8 V   |

### ELECTRIC SCHEMA EP



### DIMENSIONS



| D    | D <sub>1</sub> | L   | Н   | Т   |  |
|------|----------------|-----|-----|-----|--|
| 1150 | 1300           | 450 | 750 | 450 |  |
| 1200 | 1450           | 450 | 750 | 450 |  |

#### **OPERATING LIMITATIONS**

#### Speed

Given by speed range of the canopy used.

#### Wind speed

According to canopy used. Do not take off and land with back wind.

## Driving unit limitation

| Mode<br>max. revolutions allowed<br>max. constant revolutions<br>idle revolutions   | 7000 rpm<br>6500 rpm<br>2000 rpm   | for max 5min at a time unlimited              |
|---|------------------------------------|---|
| Weight<br>min. pilot weight<br>max. pilot weight<br>max. weight in flight MPG<br>empty weight MPG   | 75 kg<br>115 kg<br>150 kg<br>27 kg |   |
| Performance<br>Static thrust (propeller 120/115 cm)<br>climb ratio approx.<br>service ceiling<br><u>flight</u> range (depends on canopy used) |                                    | 800 / 750 N<br>2 m/s<br>4 000 m<br>cca 100 km |

#### **Other limitations**

This paramotor is not certified for tandem flying.

Canopy check period is set by the canopy manufacturer. We recommend first check of the lines after 50-70 flying hours.

#### Flight types

# Only daytime VFR flights are allowed (visual reference flight). Other flight types are prohibited.

#### EMERGENCY PROCEDURES

#### Engine failure (in height up to 200 m)

- lead the MPG into free flight
- in low height, land in the line of flight try to avoid any barriers
- if you are high enough, land into an open area without any barriers, against the wind if possible

#### Engine failure (in height over 200 m)

- lead the MPG into free flight
- check fuel condition
- in case of breaking fuel supply, try to restore it and start the engine
- if your paramotor has not got an electric starter, it do not start or your high is under 200 m, choose suitable area for your landing and land as described above.

#### Fire

- switch off the ignition
- do not try to start the engine

#### Vibrations

if abnormal vibrations appear it is necessary:

- to set engine revolutions to the mode, where vibrations are as small as possible
- to do emergency landing
- if vibrations increase, land in the terrain with engine switched off.

#### Using the rescue system

In case of emergency or definitive loss of control of your paraglider, switch the ignition off, right hand grasps the rescue parachute handle, pull and release it, and throw it sideways behind yourself. The position of the handle depends on the rescue parachute positioning – at the bottom, on the side or in the front (standard in the front in a front container).

#### NORMAL PROCEDURES

All engines are tested before handover for about 10 min. We gave special attention to all joining components. All screws nuts and rivets were carefully tightened and secured by Loctite. It is important to check and tighten all screws on the cylinder head and exhaust system after approx. 2 operating hours, when heat energy causes theirs final positioning. After this check you can be sure, that your paramotor is save and ready to fly.

#### Flight position adjustment

Flight position adjustment of all paramotor set must be done before the first flight. The upper hang points for the karabiners are used for PPG flying. You should set seat position, side trims, shoulder trims, to find comfortable position slightly leaning back. We recommend to hang the seat so that it simulates the flight position and to try shift from sitting to stand-up position before landing. It is important for future smooth starts and safe landings.

The propeller must be in an angle of 5 degrees with vertical axis in flight position. Each pilot must adjust the flight position for his high and weight.

#### PRE-FLIGHT PREPARATION

#### Paramotor assembly

#### Frame

Take all components out of transport containers. Place the engine part horizontally on the ground. Put the bottom quarter of the frame in the fixed pipe located in the middle of the side of the laminate part, and turning fix it to the bottom hollow. Do the same with the other bottom quarter. Then secure them together with velcro. Then stand the engine up. Assemble the 2 upper quarters of the frame first, then slide them partially into the pipes in the laminate part and finally to the bottom half of the cage. Then assemble whole cage and secure it with **all attached** velcro belts.

#### Propeller

Put propeller on the reduction, put flange on it and secure it by four special screws supplied. Tighten these by hand key in the order 1-4-2-5-3-6 with force of approx. 1 kg/m. Do not dent the propeller body by over tightening. We recommend to turn the propeller round once by hand to make sure, that it is attached correctly.

#### ATTNETION! Never start the engine without a propeller!!!

#### Engine

Release the petrol tank cap to allow equalization of a pressure in the tank. Tighten the cap again.

#### Battery

Insert charged battery (in the protective case) in the battery case in the laminate part. Check the main starter switch. It should be OFF. Then connect leads and close the battery case.

**!!** Never disconect battery from engine while in operation. There is a risk of damage to the electronic ignition.

#### Harness

There is an anti-vibration airbag in the back part of the harness. Inflate it to approx. 30 % of its capacity and put it in the back pocket of the harness. Clip the harness to the paramotor firstly on a side, then at the top. Carefully check the catches. When locking upper buckles, pay attention to the rescue system belt, which has to lead over above the buckles straps. Each of these buckles has bearing capacity of 300 kg and can not be unbuckled without simultaneously pressing both safety-locks. The tubes at the side can not opened without simultaneously pressing safety catch and pulling out the tube. Now You can be sure, you will not loose your paramotor during the flight.



- 1) main glider attachment
- 2) side tubes for paramotor attachment
- 3) upper paramotor attachment points
- 4) rescue system attachment point
- 5) rescue system handle
- 6) front rescue system container attachment
- 7) straps for shoulder belt length setting
- 8) straps for sitting position setting

#### **PRE-FLIGHT CHECK**

cage intact, assembling, velcro strings undamaged, tense orientation, screws tightening, intact, no damage propeller silent-blocks, carburettor and exhaust attachment engine screws. belt tension reduction general condition, fuel supply, el. contacts, switches, equipment spark-plug cable fuel tank cup, tight harness attach points - engine, pilot, paraglide attached, safety catches rescue system oil good oil-petrol mixture petrol sufficiency for flight planed high revolutions, neutral, switch off engine test helmet, shoes, warm clothes, gloves pilot other vario, tachometer, GPS, clock, radio paraglider canopy, lines, loos ends

#### ENGINE TEST

When starting cold engine, repeatedly pres the petrol pump, until petrol comes out through the air filter. Remove all small objects, which could be possibly drawn in by the propeller, from immediate proximity of the paramotor. Loos parts of your (and long hair) are equally dangerous.

# Nobody must stand dangerously close to starting engine, especially not in the propeller's plane of rotation.

1.

Switch on the main switch on the right hand side. Grasp the engine handle firmly by left hand, lean your knee against the laminate. never hold the protective frame. The engine gives thrust immediately after it is started. It is necessary to keep this in mind and make sure, the engine switch off button is accessible.

#### Manual start

Turn the propeller behind engine compression. As no.1.Take the throttle with the left hand\* together with the engine handle. Pull the start rope strongly (but smoothly). Do not release the start rope, but let it smoothly retract back.

#### Electric start

As no.1.Switch the starter switch ON. Take the throttle and press starter button. The engine should start running within max. 10 s. If not, repeat start after short pause.

After starting, Warm up the engine for about 1 min in low and middle rpm, till it starts accelerating. Then try idle revs, transition from min to max revs and back. Switch the engine off.

#### \* Why is the throttle in left hand?

The propeller rotation causes forces in this configuration, which try to turn all MPGs right. This is normally balanced by tightening the cross strap on the harness before start, and by left paraglider brake if necessary. This is why the left hand does never release the left handle and throttle and you have right hand free to control the GPS, vario or camera.

#### REFUELLING

Always refuel with the engine switched OFF. Fill the tank through the filter and check the fuel purity. Make sure there is no fire around the MPG, especially nobody smoking there. Use only fuel containers specifically intended for fuel. Do not wear clothes, which creates static electricity, during refuelling your MPG.

It is possible to watch fuel level during the flight, by the mirror placed on the string in the harness pocket (or a parabolic plastic mirror fixed on the glove).

#### TAKEOFF

Make front start in front wind. Start to inflate the paraglider with your hand poised to the sides and engine in idle revs. Check the canopy filling and line condition. Apply full gas and run as fast as possible with your hands now above your head without breaking the paraglider. Keep heading against the wind. When you reach the takeoff speed, break the paraglider slightly and take off. Run until you fly. Do not sit prematurely down into the harness and do not bounce to lift the canopy.

Release the breaks after take off and climb with full speed. This minimises the danger of speed loss.

#### LANDING

Carefully check the landing place, possible barriers and wind direction. Do always land against the wind.

Press and hold the engine switch off button on the throttle till the engine stops in high min 10 m above the ground. Get off the harness in approx. 5 m above the ground. Land normally on your feet. Run if necessary. Put the canopy on the ground to avoid the contact with hot engine parts.

#### ENGINE TUNING AND MAINTENANCE

#### **RUNNING-IN**

There are two reasons, why is engine running-in very important:

- 1) correct operation check in all rpm types
- 2) warming up the engine and final settling of all its parts

Don't use full gas during first 5 flying hours, except for the take off (approx. 1 min at a time). Vary the rpm levels during first flights. After this your engine will be ready to fly without any limitations. The revolutions will increase by 300 rpm.

#### FUEL AND OILS

Solo and NIRVANA recommend using fully synthetic (ie: Mobil 1 – Racing 2T, Eurol, Valvoline SYNTO, SHELL ADVANCE ULTRA, PANOLIN 2 STROKE SYNTH., ...) in correct oil-petrol mixture, which prevent combustion chamber and exhaust carbonisation.

Do not store mixed petrol longer than few days, max 2 - 3 weeks.

You can mix Castrol TTS with leaded or unleaded petrol. However leaded petrol is preferred. Always use quality petrol.

| mode             | time  | Mixture<br>(oil/petrol) |
|------------------|-------|-------------------------|
| running in       | 5 hod | 1 : 40                  |
| normal operation |       | 1:50                    |

| octane | EUROPE     | UK           | USA     |
|--------|------------|--------------|---------|
| 97     | Super PB   | 4-star PB    | Premium |
| 95     | Super S/PB | Regular S/PB | Regular |

Do not use oils intended for high revolutions or water-cooled engines.

Any mechanical problems causing seizure of the engine will not be cowered by the warranty.

These are always caused by not observing the running-in rules, use of wrong fuel, oil, oil-petrol mixture or by combination of the above..

#### CARBURETTOR SETTING

|                             | minimum                    | standard | maximum  |
|-----------------------------|----------------------------|----------|----------|
| screw L                     | 1/2 turn                   | 3/4 turn | 1 turn   |
| screw H                     | 7/8 turn                   | 1 turn   | 9/8 turn |
| Make estimation from timber | anad maaitian tuuminan laf | 4        |          |

Make setting from tightened position turning left.

#### **REDUCTION BELT TENSIONING**

Reduction belt should not have more free play than 5 mm, but not lower than 2 mm.

Loose the shaft nut (by special key supplied in the set), set the correct tension of the belt by the upper screw and tighten fast the shaft nut.

#### PROPELLER ORIENTATION SETTING

Set propeller to vertical position. Find the distance between the blade end and the frame with some tool (e.g. screwdriver). Then rotate the prop by  $180^{\circ}$  and check whether the distance is the same on the other blade. If there is a difference, loose firstly propeller screw on the less deflected side and than tighten both.

#### PROPELER MAINTENANCE

Always store the propeller in a dry place. Do not expose it to sudden temperature changes. Store it in horizontal position. Do not expose the propeller unnecessarily to sunshine.

Check the propeller after each flight. If it has small scratches, it is necessary to repair them to prevent any dampness penetration. You can make Small repairs yourself using special tools and solutions. It is necessary to balance the propeller after every repair.

It is recommended to have the propeller generally treated and balanced after some time.

Any unprofessional treatment of the propeller can have fatal consequences (misbalance, high vibrations, loosing the prop in flight, frame destruction, reduction damage,...)

#### CHARGING THE BATTERY

See detailed description in "Charger ICS 1702 manual"

#### **REGULAR MAINTENANCE**

| part                 | check              | replacement     |
|----------------------|--------------------|-----------------|
| spark-plug           | 10 h               | 50 h / 1 year   |
| reduction belt       | before each flight | 100 h / 2 years |
| engine silentblocks  | before each flight | 100 h / 2 years |
| exhaust silentblocks | before each flight | 100 h / 2 years |

In case of evident damage of any part of the paramotor it is necessary to repair or replace it before first next flight.

### FAULTS AND SOLUTIONS

| Fault                                     | Indication   | Solution  |
|---|--|---|
| flooded engine                            | the engine does not start<br>running, does not give a spark  | manually turn the<br>propeller 3 turns against<br>normal direction of<br>rotation   |
|   | If it still does not start running   | without the gas,<br>repeatedly pull manual<br>start or try el. starter  |
|   | If it still does not start running   | take out the spark-plug<br>and dry it. Without the<br>plug, turn prop 3 turns in<br>normal direction of<br>rotation.  |
| Irregular engine operation                | in low turns   | tune the engine turning<br>the "L" screw right (see<br>the carburettor setting)   |
|   | in high turns  | tune the engine turning<br>the "H" screw (see the<br>carburettor setting)   |
| slow low-high<br>revolution<br>transition | slow acceleration  | tune the engine turning the<br>"L" screw  |
| ignition fault                            | carburettor is set correctly,<br>engine engine does not start<br>correctly or does not run<br>smoothly | <ol> <li>spark-plug – check the<br/>contacts</li> <li>set the contacts<br/>distance on the magnet<br/>(does the<br/>manufacturer)</li> <li>(engine needs 600 rpm to<br/>start)</li> </ol> |
| air filter pollution                      | low thrust   | take the air filter out, blow it through and clean it   |
| Loos reduction belt                       | belt slips and whistles  | Tighten up the belt (see<br>"Reduction belt tightening)   |
| propeller damage                          | vibrations increase  | great damage – replace it<br>with a new one, small<br>damage can be repaired<br>(see "Propeller<br>maintenance")  |
| Propeller vibrations                      | The prop is not damaged, but causes vibes  | balance the prop.   |

#### TRANSPORTATION RULES

#### Completely assembled

- disconnect the battery
- the engine must be supported by the fuel tank and the frame all the time. It must not be supported just by the frame.
- if you need to secure it during transport only strap down the laminate part, never try to secure (strap down )the MPG by the cage
- check, that it can not tip over

#### **Dismantled**

- disconnect the battery
- detach the harness, propeller and take apart the frame
- we recommend using the transportation bags (engine, frame, propeller)

#### LONG TIME STORAGE RULES

- drain all the fuel
- protect the combustion chamber wit special conservator
- detach and store the propeller (see "Propeller maintenance"
- disconnect the battery store it separately
- store the paramotor in dry, clean place in constant temperature

## Oprávnění LAA ČR k výrobě, opravám a zkušebnictví sportovních létajícich zařízení

associace CR-LA

Registračni čislo: 05/2005

Na znkladž povetení a v soulado se zákonem č. 49/1997 S8. o civilním latectví s platném znění a v souladu s Postupy LA-1 Hlava 9 vydává LAA CR toto oprávnění k výrohé a opravám sportovního létnjicího zařízení

Držitel aprávační:

Firma : NIRVANA SYSTEMS s.r.o Jateóni 523, 760 01 Zlin-Prätné, Czech Republic ICD 26978555, DIC CZ26978555

Předmět činnosti držitele oprávnění:

Vývoj, výroba a opravy motorových padákových kluzáků, padákových kluzáků a vybavení pro paragliding a motorový paragliding.

Platnost oprávnění: 3 roky

#### Odborným dozorem je pověřen:

Ing.Pavel Březina (inspektor technik PL LAA ČR č.9 inspektor technik MPL LAA ČR č.25 B) Vydáno dne:

2.11.2005

Ke Katol 259

Tel: +470 271 CHE 567

Hlavni inspektor technik PL LAA ČR:

Reditel spravy LAA CR:

f the Czech Republic

Miroslav Felt

Jiff Koubik

RO &



## Typový průkaz – Type Certificate

Vydává Letecká amatérská asociace české republiky (dále jen LAA ČR) v souladu s ustanovením §81 odst. 2. zákona o civilním letectví č. 49 / 1997 Sb. a v souladu s prováděcími předpisy.

> Označení typu letecké techniky: Designation of the type of aviation technology:

POSTROJ PRO MOTOROVÉ PADÁKOVÉ KLUZÁKY

Model: LEXX R

Držitel typového průkazu: Owner of Type Certificate:

> Ing. Pavel Březina Nirvana paragliding Příkrá 3538 760 01 Zlín

Schváleno technickou komisí LAA ČR dne: Approval of the Technical commission of LAA CR:

17.3.2004

**Typový průkaz je zaregistrován u LAA ČR pod značkou:** Type certificate is registered in LAA CR under registration sign:

PL 5-02/2004

Typový průkaz vydán 19. 3. 2004

Hlavní inspektor technik MPK LAA ČR:

Ředitel správy SLZ LAA ČR:

iří Koubík

00

Ing. Miroslav Huml

Letecká amatérská asociace ČR Ke Kablu 289 102 00 Praha 10 Tel.: +420 271 085 274

## Typový průkaz - Type Certificate

exociace CR-Dubt

Vy dává Letecka amaterská asociace Cester republiky (dáje LAA ČR) na zaciade pověření a v souladu sustatov chintzakona č. 49/1997 Sb. o civilnim lelectv) v plauném zhění.

> Označení typu letecké techniky: Designation of the type of aviation technology

Dyoumistny PPG - Sportovní létajíci zatizem Typové označení: RODEO 115 (125) Maximalel vzletová hmotnost: Podrohné technické specifikate jsou uvedeny v příloze.

> Držitel typového průkazu: Owner of Type Certificate:

Nirvana paragliding - ing. Pavel Brezina Prikra 3538, 760 01 Zlin I.C.45498822 Firma provádí výrobu částí a závěrečnou kompletaci zařízení.

> Schväleno technickou komisi LAA ČR dne: Approval of the Technical commission of LAA CR:

> > 2.11.2005

Typový průkaz je zaregistrován u LAA ČR pod značkou: Type certificate is registered in LAA CR under registration sign:

PPG - 06 / 2005

Hlavní inspektor teehnik MPK LAA ČR: Chief Engineer of MPK LAA CR: Managing director of the LAA:

Reditel spravy SLZ:

Jili Koubik

of the Czech Republic

Ing. Miroslav Huml

Ne Katalu 289 102 00 Preha 10 Tel.) +420.271 085 687

#### ická anatersk a asociace CR - Light Aircraft Assa lating of the Czech Republic

## Typový průkaz – Type Certificate

Vydavá Letecká nimatérská asociace České republiky (dále I AA ČR) na základě pověření a v souladu s patanovením zakona č. 49/1997 Sb. o civilním leactor v platnem zňení.

> Označení typu letecké techniky: Designation of the type of aviation technology

Vrtule pro sportovní létající zařízení Pubse 1R2

Celokompozitová dvoulistá skládací vrtule pro motorovy paragliding. Vrtule je ve dvou provedenich, průměr vrtule [150 mm a 1230 mm] Vrtule jsou určeny pro motory vybavené reduktorem, výkon max. 25 kW. Maximalni povolene otačky 2700 ot/min.

> Držitel typového průkazu: Owner of Type Certificate:

NIRVANA PARAGEIDING Příkra 3538 760.01 Zlin

Schväleno technickou komisi LAA ČR dne: Approval of the Technical commission of LAA CR:

15.6.2005

Typový průkaz je zaregistrován u LAA ČR pod značkou: Type certificate is registered in LAA CR under registration sign:

02/2005

Hlavni technik LAA ČR: Chief Engineer of LAA CR:

Ing. Václav Chvála

Managing director of the LAA: Letecká amatériká asociace GR Ke Kabro 289 102 00 Pmba 1

Tel +420 271 085 587

Reditel správy SLZ:

Jiff Kouhik

## PARAMOTOR NIRVANA RODEO 115 / 125

# COMPONENTS







| číslo/<br>number | popis                                  | name                                    | need |     |
|------------------|--|---|------|-----|
| 010101           | RÁM                                    | FRAME                                   | 1    | set |
| 010102           | Ochranný rám 1/4 PH                    | safety frame, 1/4 incl. String, RT      | 1    | рс  |
| 010103           | Ochranný rám 1/4 PS                    | safety frame, 1/4 incl. String, RB      | 1    | рс  |
| 010104           | Ochranný rám 1/4 LS                    | safety frame, 1/4 incl. String, LB      | 1    | рс  |
| 010105           | Ochranný rám 1/4 LH                    | safety frame, 1/4 incl. String, LT      | 1    | рс  |
| 010106           | Spojka rámu - obvodová                 | Frame joint - peripheral                | 8    | рс  |
| 010107           | Spojka rámu - vnitřní                  | Frame joint - inner                     | 4    | рс  |
| 010111           | Stahovací pásek rámu - se sponou       | Velcro strap - with buckle              | 2    | рс  |
| 010112           | Stahovací pásky - sada                 | Velcro straps - set                     | 1    | set |
| 010113           | Výplet 1/4 rámu                        | String (1/4 frame part)                 | 10   | m   |
| 010114           | Nýt rámu                               | Rivet                                   | 12   | рс  |
|                  | DOPLŇKY                                | ACCESSORIES                             |      |     |
| 020117           | Sedačka se zálož.kontejnerem LexxR     | Harness with rescue container           | 1    | рс  |
| 010118           | Powerfly                               | Main carbines - Powerfly                | 2    | рс  |
| 010119           | Majlon záložáková                      | Rescue chute carbines                   | 2    | рс  |
| 010120           | Nafukovací polštářek                   | Air cushion                             | 1    | рс  |
| 010121           | Speed                                  | Speed system                            | 1    | рс  |
| 010122           | Taška na motor                         | Engine wheel bag                        | 1    | рс  |
| 010123           | Obal rámu                              | Frame casing                            | 1    | рс  |
| 010124           | Obal vrtule                            | Propeller casing                        | 1    | рс  |
| 010125           | Taška na návod                         | Briefcase                               | 1    | рс  |
| 020126           | Návod                                  | Manual                                  | 1    | рс  |
|                  | Vrtule                                 | Propeller                               |      |     |
| 020115           | Vrtule dřevěná 125, 115 cm             | Wooden propeller                        | 1    | рс  |
| 010118           | Vrtule plastová 115, 2-listá PULSE 2R2 | Plastic propeller 115, 2blade PULSE 2R2 | 1    | рс  |
| 010119           | Vrtule plastová 125, 2-listá PULSE 2R2 | Plastic propeller 125, 2blade PULSE 2R2 | 1    | рс  |



| číslo/<br>number | popis                   | name                 | need |    |
|------------------|-------------------------|----------------------|------|----|
|                  | MOTOR                   | ENGINE               |      |    |
| 020200           | Motor MINI2PLUS         | Enginge MINI2PLUS    | 1    | рс |
| 020203           | Matice hlavy            | Head nut             | 4    | рс |
| 020204           | Hlava válce             | Cylinder head        | 1    | рс |
| 020205           | Těsnění hlavy válce     | Cylinder head gasket | 1    | рс |
| 020206           | Šroubový šteft válce    | Cylinder stud bolt   | 4    | рс |
| 020207           | Válec                   | Cylinder             | 1    | рс |
| 020208           | Těsnění válce           | Cylinder foot gasket | 1    | рс |
| 020210           | Karter                  | Crankshaft box       | 1    | рс |
| 020211           | Šroub karteru           | f.h. screw           | 6    | рс |
| 020212           | Průchodka podtlaku      | Impulse socket       | 1    | рс |
| 020213           | Těsnění průchodky       | Socket gasket        | 1    | рс |
| 020218           | Šroub                   | Screw                | 4    | рс |
| 020219           | Podložka                | Washer               | 4    | рс |
| 020220           | Příruba sání            | Suction flange       | 1    | рс |
| 020221           | Sací membrána           | Suction membrane     | 1    | рс |
| 020222           | Těsnění                 | Gasket               | 1    | рс |
| 020223           | Zapalovací svíčka       | Spark-plug           | 1    | рс |
| 020240           | Gufero klikové hřídele  | Oil seal             | 2    | рс |
| 020241-1         | Ložisko klikové hřídele | Ball bearing         | 1    | рс |
| 010209           | Ložisko klikové hřídele | Ball bearing         | 1    | рс |
| 020242           | Kliková hřídel          | Crankshaft           | 1    | рс |
| 020245           | Ojniční sada            | Needle set           | 1    | рс |
| 020246           | Píst                    | Piston               | 1    | рс |
| 20246A           | Pístní kroužek          | Piston ring          | 2    | рс |





| číslo/<br>number | popis                    | name                    | need |    |
|------------------|--------------------------|-------------------------|------|----|
|                  | STARTOVADLO              | MANUAL STARTER          |      |    |
| 010230           | Ručka startovadla        | Starter handle          | 1    | рс |
| 010231           | Vnější kryt startovadla  | Starter cover - inside  | 1    | рс |
| 010232           | Vnitřní kryt startovadla | Starter cover - outside | 1    | рс |
| 010233           | Startovací pružina       | Starter spring          | 1    | рс |
| 010234           | Tělo západky             | Wheel for rope          | 1    | рс |
| 010235           | Startovací palec         | Finger                  | 1    | рс |
| 010236           | Kulisa                   | Coulisse                | 1    | рс |
| 010237           | Závlačka                 | Cotter                  | 1    | рс |
| 010238           | Matice                   | Nut                     | 1    | рс |
| 010239           | Podložka                 | Tension washer          | 1    | рс |
| 010241           | Šňůra startovadla        | Rope                    | 1    | рс |
| 010242           | Šroub startovadla        | Screw                   | 3    | рс |
| 010243           | Podložka                 | Tension washer          | 3    | рс |
| 010244           | Šroub krytu startovadla  | Screw                   | 6    | рс |
| 010252           | Startovadlo - komplet    | Starter - complet       | 1    | рс |
| 010257           | Hřídel startovadla       | Manual starter shaft    | 1    | рс |
# Carburettor

01 03 00



| číslo/<br>number | popis                  | name                |   |     |
|------------------|------------------------|---------------------|---|-----|
|                  | Karburátor             | Carburettor         |   |     |
| 020300           | Karburátor Rodeo       | Carburettor Rodeo   | 1 | рс  |
| 010375           | Membránová sada Walbro | Membrane set WALBRO | 1 | set |

## Engine and carburettor accessories



| číslo/<br>number | popis                                   | name                               | need |     |
|------------------|---|------------------------------------|------|-----|
|                  | Příslušenství motoru a karburátoru      | Engine and carburettor accessories |      |     |
| 020218           | Šroub                                   | Screw                              | 4    | рс  |
| 020219           | Podložka                                | Washer                             | 4    | pc  |
| 020220           | Příruba sání                            | Suction flange                     | 1    | pc  |
| 020221           | Sací membrána                           | Suction membrane                   | 1    | pc  |
| 020222           | Těsnění                                 | Gasket                             | 1    | рс  |
| 020253           | Držák motoru horní                      | Upper engine bracket               | 1    | рс  |
| 020255           | Šroub horního držáku                    | Screw                              | 2    | рс  |
| 020256           | Podložky šroubu horního držáku          | Tension washer                     | 2    | рс  |
| 020257           | Držák motoru spodní                     | Lower engine bracket               | 1    | рс  |
| 202558           | Šroub spodního držáku                   | Screw                              | 2    | рс  |
| 020259           | Podložky šroubu spodního držáku         | Tension washer                     | 2    | рс  |
| 020352           | Stahovací spona                         | Clamp                              | 1    | рс  |
| 020353           | Příruba karburátoru                     | Manifold                           | 1    | рс  |
| 010354           | Těsnění karburátoru                     | Gasket                             | 1    | рс  |
| 010356           | Příruba filtru                          | Filter flange                      | 1    | рс  |
| 010357           | Filtr vzduchový                         | Air filter                         | 1    | рс  |
| 010358           | Šroub filtru                            | Screw                              | 2    | рс  |
| 010359           | Průchodky karburátoru - benzinové pumpy | Socket                             | 2    | рс  |
| 020360           | Hadička podtlaku                        | Suction hose                       | 1    | рс  |
| 010361           | Sponka                                  | Clamp                              | 2    | рс  |
| 010362           | Pumpička benzínová                      | Petrol pump                        | 1    | рс  |
| 020363           | Hadička čerpadla 1,1m (2x55cm)          | Pump hose 1,1 m (2x55cm)           | 1    | рс  |
| 020366           | Kryt hadiček čerpadla                   | Intake silencer                    | 1    | рс  |
| 010370           | Tlumič sání DULV                        | Intake silencer                    | 1    | рс  |
| 020371           | Držák bowdenu plynu                     | Throttle holder                    | 1    | рс  |
| 010372           | Šroub bowdenu plynu                     | Screw                              | 1    | рс  |
| 010373           | Matka bowdenu plynu                     | Nut                                | 2    | рс  |
| 010365           | Plyn s aretací komplet                  | Throttle with tempomat complet     | 1    | set |
| 010374           | Lanko plynu                             | Throttle wire                      | 1    | рс  |
| 010375           | Tlačítko vypínání zapalování            | Push button - stop                 | 1    | рс  |
| 010376           | Tlačítko starteru                       | Push button - start                | 1    | рс  |

# Ignition EP 02 04 00



| číslo/<br>number | popis                  | name           | need |     |
|------------------|------------------------|----------------|------|-----|
| 020400           | Zapalování CIR         | Ignition CIR   | 1    | set |
| 020422           | Rotor komplet          | Rotor komplet  | 1    | рс  |
| 010402           | Stator                 | Stator         | 1    | рс  |
| 010421           | Indukční cívka         | Induction coil | 1    | рс  |
| 010404           | Regulátor              | Regulator      | 1    | рс  |
| 010421           | Adapter startovadla    | Adapter        | 1    | рс  |
| 020407           | Kabel svíčky           | Ignition cable | 1    | рс  |
| 010408           | Fajka svíčky           | Spargplug cap  | 1    | рс  |
| 010409           | Šroub adapteru         | Screw          | 2    | рс  |
| 010410           | Šroub statoru          | Screw          | 2    | рс  |
| 020411           | Podložka               | Washer         | 4    | рс  |
| 020413           | Matice klikové hřídele | Nut            | 1    | рс  |
| 010414           | Distance cívky         | Coil distance  | 2    | рс  |
| 010415           | Šroub cívky            | Screw          | 2    | рс  |
| 010416           | Podložka šroubu cívky  | Tension washer | 4    | рс  |
| 010417           | Matice šroubu cívky    | Nut            | 2    | рс  |
| 020418           | Zásuvka                | Plug           | 1    | рс  |
| 020419           | Konektor               | Conector       | 1    | рс  |

# Exhaust

01 05 xx



| číslo/<br>number | popis  | name                                 |   |     |
|------------------|--|--------------------------------------|---|-----|
| 020500           | Výfuk laděný - komplet - samostatně neprodejný díl | Tuned exhaust - komplet - unsaleable | 1 | set |
| 020501           | výfuk s dotlumovačem - samostatně neprodejný díl   | Tunned exhaust - unsaleable          | 1 | рс  |
| 020502           | Repka  | Exhaust tube                         | 1 | рс  |
| 020503           | Koleno výfuku                                      | Connection pipe                      | 1 | рс  |
| 010504           | Stahovací spona                                    | Clamp                                | 2 | рс  |
| 020505           | Těsnění výfuku                                     | Exhaust gasket                       | 1 | рс  |
| 010506           | Matice výfuku                                      | Exhaust nut                          | 2 | рс  |
| 010508           | Silentblok výfuku spodní                           | Exhaust rubberjoint lower            | 1 | рс  |
| 010509           | Podložka spodního silentbloku                      | Tension washer                       | 2 | рс  |
| 010510           | Matice spodního silentbloku                        | Nut                                  | 2 | рс  |
| 010511           | Silentblok výfuku horní                            | Exhaust rubberjoint upper            | 2 | рс  |
| 010512           | Podložka horního silentbloku                       | Tension washer                       | 4 | рс  |
| 010513           | Matice horního silentbloku                         | Nut                                  | 4 | рс  |

### Electric Starter - set 01 06 xx



| číslo/<br>number | popis                      | name                   | need |     |
|------------------|----------------------------|------------------------|------|-----|
| 020600           | STARTOVACÍ SADA            | ELECTRIC STARTER set   | 1    | set |
| 020601           | Starter Rodeo              | Starter Rodeo          | 1    | рс  |
| 010602           | Zdroj                      | Battery                | 1    | рс  |
| 010603           | Obal zdroje                | Battery covering       | 1    | рс  |
| 010604           | Startovací relé            | Starter relay          | 1    | рс  |
| 020605           | Startovací rozeta          | Starter ring           | 1    | рс  |
| 010606           | Šroub rozety               | Screw                  | 3    | рс  |
| 010607           | Přívodní kabel ke starteru | Starter cable          | 1    | рс  |
| 010608           | Kontakt starteru           | Starter contact        | 1    | рс  |
| 010609           | Šroub kontaktu             | Screw                  | 1    | рс  |
| 010610           | Krytka kontaktu            | Contact covering       | 1    | рс  |
| 010611           | Šroub starteru             | Starter screw          | 2    | рс  |
| 010612           | Kontakt zlacený            | Gold-plated connection | 2    | рс  |
| 010615           | Pojistková skřínka         | Fuse box               | 1    | рс  |
| 010616           | Pojistka                   | Safety fuse            | 1    | рс  |
| 010617           | Zásuvka                    | Plug                   | 1    | рс  |
| 010618           | Nabíječka, pulzní          | Charger - puls         | 1    | рс  |





| číslo/<br>number | popis                     | name                  | need |     |
|------------------|---------------------------|-----------------------|------|-----|
| 010700           | NÁDRŽ - komplet           | Petrol tank           | 1    | set |
| 010701           | Nádrž                     | petrol tank           | 1    | рс  |
| 010702           | Těsnění víčka nádrže      | Gasket                | 1    | рс  |
| 010703           | Víčko nádrže              | Petrol top            | 1    | рс  |
| 010704           | Ventilek                  | Ventil                | 1    | рс  |
| 010705           | Šroub nádrže              | Screw                 | 3    | рс  |
| 010706           | Nořidlo s filtrem         | Dip filter            | 1    | рс  |
| 010707           | Matice nořidla            | Nut                   | 1    | рс  |
| 010708           | Hadička benzínová vnitřní | Petrol hose - inside  | 1    | рс  |
| 010709           | Průchodka nádrže          | Bushing               | 1    | рс  |
| 010710           | Spona stahovací           | Clamp                 | 3    | рс  |
| 010711           | Těsnění průchodky nádrže  | Rubber gasket         | 1    | рс  |
| 010712           | Podložka průchodky nádrže | Tension washer        | 1    | рс  |
| 010713           | Matice průchodky nádrže   | Nut                   | 1    | рс  |
| 010714           | Hadička benzínová vnější  | Petrol hose - outside | 1    | рс  |

# Reducer



| číslo/<br>number | popis                           | name                  | need |     |
|------------------|---------------------------------|-----------------------|------|-----|
| 020800           | Reduktor                        |                       | 1    | set |
| 020806           | Řemenice malá                   | Lower pulley          | 1    | рс  |
| 020807           | Podložka malé řemenice          | Tension washer        | 1    | рс  |
| 020808           | Matka malé řemenice             | Nut                   | 1    | рс  |
| 020809           | Řemen reduktoru                 | Reduction belt        | 1    | рс  |
| 020810           | Řemenice velká                  | Upper pulley          | 1    | рс  |
| 020811           | Hřídel velké řemenice           | Propeller hub         | 1    | рс  |
| 020812           | Šroub hřídele velké řemenice    | Hub screw             | 1    | рс  |
| 020813           | Podložka                        | Washer                | 1    | рс  |
| 020814           | Podložka                        | Washer                | 1    | рс  |
| 010816           | Ložisko velké řemenice          | Upper pulley bearing  | 2    | рс  |
| 020817           | Distance ložisek velké řemenice | Distance              | 1    | рс  |
| 010818           | Ségrovka                        | Circlip               | 1    | рс  |
| 010819           | Ségrovka                        | Circlip               | 1    | рс  |
| 020820           | Středící kroužek vrtule         | Median propeller ring | 1    | рс  |
| 020821           | Příruba vrtule                  | Propeller flange      | 1    | рс  |
| 020822           | Šroub vrtule                    | Propeller screw       | 6    | рс  |
| 020823           | Klíč na reduktor                | Reduction spanner     | 1    | рс  |
| 020824           | Klíč na vrtuli                  | Propeller spanner     | 1    | рс  |





| číslo/<br>number | popis                                    | name                 | need |     |
|------------------|--|----------------------|------|-----|
| 010900           | ZÁDOVÝ DÍL - samostatně neprodejný       | Skelet - unsaleable  | 1    | set |
| 010613           | Skelet - samostatně neprodejný díl       | Skelet - unsaleable  | 2    | рс  |
| 010901           | Skelet                                   | Skelet               | 1    | рс  |
| 010902           | Kryt baterie                             | Battery cover        | 1    | рс  |
| 010903           | Boční kryt                               | Side bonnet          | 1    | рс  |
| 010904           | Šroub bočního krytu horní                | Screw                | 1    | рс  |
| 010905           | Nýtovací matka horní                     | Rivet nut            | 1    | рс  |
| 010906           | Šroub bočního krytu spodní               | Screw                | 1    | рс  |
| 010907           | Nýtovací matka spodní                    | Rivet nut            | 1    | рс  |
| 010908           | Zádový oblouk                            | Back bend pipe       | 1    | рс  |
| 020909           | Kloub sedačky                            | Hinge                | 2    | рс  |
| 020910           | Rozpěrka                                 | Strut                | 2    | рс  |
| 020911           | Nýt                                      | Rivet                | 2    | рс  |
| 020912           | Podložka                                 | Washer               | 2    | рс  |
| 010916           | Nýt boční zadní                          | Rivet                | 2    | рс  |
| 010917           | Nýt boční přední                         | Rivet                | 2    | рс  |
| 010918           | Nýt zadní                                | Rivet                | 2    | рс  |
| 010919           | Kladka startovadla                       | Pulley               | 1    | рс  |
| 010920           | Podložka nýtu kladky startovadla         | Rivet washer         | 2    | рс  |
| 010921           | Nýt kladky startovadla                   | Rivet                | 2    | рс  |
| 010922           | Držák startovadla                        | Holder               | 1    | рс  |
| 010923           | Nýt držáku startovadla                   | Rivet                | 2    | рс  |
| 010924           | Madlo                                    | Handle               | 1    | рс  |
| 010925           | Nýt madla                                | Rivet                | 4    | рс  |
| 010926           | Podložka nýtu madla                      | Rivet washer         | 4    | рс  |
| 010927           | Pásek horní karabiny                     | Upper strap          | 2    | рс  |
| 010928           | Nýt pásku                                | Rivet                | 2    | рс  |
| 010929           | Trubka rámu                              | Frame pipe           | 2    | рс  |
| 010930           | Nýt trubky rámu                          | Rivet                | 2    | рс  |
| 010931           | Silentblok motoru                        | Rubberjoint screw    | 3    | рс  |
| 010932           | Pojišťovací pásek silentbloku motoru     | Safety strap         | 3    | рс  |
| 010933           | Podložka silentbloku                     | Tension washer       | 4    | рс  |
| 010934           | Matice silentbloku                       | Nut                  | 5    | рс  |
| 010935           | Podložka spodního silentbloku            | Tension washer       | 1    | рс  |
| 010936           | Matice spodního silentbloku - vymezovací | Nut                  | 1    | рс  |
| 010937           | Velcro samolepící                        | Velcro self-adhesive | 1    | рс  |
| 010938           | Nálepka "NIRVANA PARAMOTORS"             | Sticker              | 1    | рс  |

last update 05.05.2009

| 020939 | Nálepka "RODEO 115 / 125"             | Sticker | 1 | рс |
|--------|---------------------------------------|---------|---|----|
| 020940 | Nálepka "Seřízení karburátoru"        | Sticker | 1 | рс |
| 010941 | Nálepka "Mísící poměr"                | Sticker | 1 | рс |
| 010942 | Nálepka "Předletová příprava"         | Sticker | 1 | рс |
| 010943 | Nálepka "ON / OFF"                    | Sticker | 1 | рс |
| 010944 | Nálepka "výstup 16,8 V"               | Sticker | 1 | рс |
| 010945 | Nálepka "Type"                        | Sticker | 1 | рс |
| 010946 | Nálepka "Evidenční štítek"            | Sticker | 1 | рс |
| 010947 | Nálepka "NIRVANA PARAMOTORS" stříbrná | Sticker | 2 | рс |

#### **OPERATING RECORDS**

#### SERVICE LIST

| List of mandatory checks performed, repairs, important part replacements, |      |              |                              |  |
|---|------|--------------|------------------------------|--|
| Operation (reason)  | date | flight hours | signature<br>– checked<br>by |  |
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| List of mandatory checks performed, repairs, important part replacements, |      |              |                              |  |
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| Operation (reason)  | date | flight hours | signature<br>– checked<br>by |  |
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| List of mandatory checks performed, repairs, important part replacements, |      |              |                              |  |
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| Operation (reason)  | date | flight hours | signature<br>– checked<br>by |  |
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| List of mandato<br>repairs, importar | List of mandatory checks performed, repairs, important part replacements, … |              |                              |  |  |  |  |  |  |
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| Operation (reason)                   | date  | flight hours | signature<br>– checked<br>by |  |  |  |  |  |  |
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#### RECORD OF BULLETIN IMPLEMENTATIONS OR MANDATORY CHANGES

| serial<br>number | bulletin<br>number | date | note | performed –<br>signature |
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### DAILY OPERATING RECORDS

|      | take off and  | da<br>flights<br>number | ily            | in all            |                | notes flight faults                          |
|------|---------------|-------------------------|----------------|-------------------|----------------|--|
| date | landing place | flights                 | flight<br>time | flights<br>number | flight<br>time | notes, flight, faults, repairs, consumption, |
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| 1.1. | take off and  | daily                                  |      | in all            |                | notes, flight faults                         |  |
|------|---------------|--|------|-------------------|----------------|--|--|
| date | landing place | daily<br>flights flight<br>number time |      | flights<br>number | flight<br>time | notes, flight, faults, repairs, consumption, |  |
|      |               | number                                 | time | number            | time           |  |  |
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| 1.1. | take off and  | daily                                  |      | in all            |                | notes, flight faults                         |  |
|------|---------------|--|------|-------------------|----------------|--|--|
| date | landing place | daily<br>flights flight<br>number time |      | flights<br>number | flight<br>time | notes, flight, faults, repairs, consumption, |  |
|      |               | number                                 | time | number            | time           |  |  |
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| 1.1. | take off and  | daily                                  |      | in all            |                | notes, flight faults                         |  |
|------|---------------|--|------|-------------------|----------------|--|--|
| date | landing place | daily<br>flights flight<br>number time |      | flights<br>number | flight<br>time | notes, flight, faults, repairs, consumption, |  |
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| 1.1. | take off and  | daily                                  |      | in all            |                | notes, flight faults                         |  |
|------|---------------|--|------|-------------------|----------------|--|--|
| date | landing place | daily<br>flights flight<br>number time |      | flights<br>number | flight<br>time | notes, flight, faults, repairs, consumption, |  |
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| 1.1. | take off and  | daily                                  |      | in all            |                | notes, flight faults                         |  |
|------|---------------|--|------|-------------------|----------------|--|--|
| date | landing place | daily<br>flights flight<br>number time |      | flights<br>number | flight<br>time | notes, flight, faults, repairs, consumption, |  |
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| 1.1. | take off and  | da                                     | ily  | in all            |                | notes, flight, faults                        |  |
|------|---------------|--|------|-------------------|----------------|--|--|
| date | landing place | daily<br>flights flight<br>number time |      | flights<br>number | flight<br>time | notes, flight, faults, repairs, consumption, |  |
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| 1.1. | take off and  | da                | ily            | in                | all            | notes, flight, faults                        |
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| 1.1. | take off and  | da                | ily            | in                | all            | notes, flight, faults                        |
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| 1.1. | take off and  | da                | ily            | in                | all            | notes, flight, faults                        |
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| 1.1. | take off and  | da                | ily            | in                | all            | notes, flight, faults                        |
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| 1.1. | take off and  | da                | ily            | in                | all            | notes, flight, faults                        |
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| 1.1. | take off and  | da                | ily            | in                | all            | notes, flight, faults                        |
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| date | landing place | flights<br>number | flight<br>time | flights<br>number | flight<br>time | notes, flight, faults, repairs, consumption, |
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# EQUIPMENT

| Engine configuration     |         |       |      |  |
|--------------------------|---------|-------|------|--|
| Frame 4/4                | 1450    | 1300  |      |  |
| Propeller, frame, screws | 1200    | 1150  |      |  |
| Bags                     | Engine  | Frame | Prop |  |
| Harness                  | Complet |       |      |  |
| Air bag                  |         |       |      |  |
|                          |         |       |      |  |
| Battery                  |         |       |      |  |
| Key – reduction          |         |       |      |  |
| Key – propeller          |         |       |      |  |
| Manual                   |         |       |      |  |

### WARRANTY

The warranty covers manufacture and material faults for all parts of paramotor including the harness. This product is cowered by 1 year manufacturers warranty

The warranty does not cover any damages caused by theft. It does not cover any broken or destroyed parts due to incorrect use of the MPG, use in unsuitable weather conditions, wrong assembly of mechanical parts and damages caused by falls.

The warranty ceases if the MPG is sold to the third person, or in case of incorrect use, unprofessional repair or use of unoriginal parts.

The guarantee is valid, when dated and signed by both sides.

Keep in mind, that this engine has not got an aircraft certification. It is your responsibility as the user to assemble and check the MPG before each flight.

Date ...... Seller .....

The buyer confirms, that he was informed about correct operation of the MPG, he will be responsible for finding out about any changes or mandatory bulletins from the manufacturer, related to this MPG.

Buyer .....



NIRVANA SYSTEMS s.r.o., Jateční 523, 760 01 Zlín, Czech Republic tel.: +420 577226616, fax: +420 577019117, sms: +420 775917001 e-mail: info@nirvana.cz, http://www.nirvana.cz