



**EVDS** EQUINE VETERINARY &  
DENTAL SERVICES PTY LTD

[www.evds.net.au](http://www.evds.net.au)

ABN 86 145 125 837

**Dr Oliver Liyou**

BVSc (Hons1) MACVSc (EqDent)

**and Associates**

**Ph: 02 6642 4700**

**Fax: 02 6642 8564**

Email: [vets@evds.net.au](mailto:vets@evds.net.au)

51 Duncans Lane  
CLARENZA  
via South Grafton  
NSW 2460

PO Box 95  
SOUTH GRAFTON  
NSW 2460

DENTISTRY

STUD WORK

CASTRATIONS

GENERAL ELECTIVE WORK

VET TRAINING

DENTAL INSTRUMENTS

## **POWERFLOAT RENTAL AGREEMENT**

- Rental PowerFloats are charged out at AU**\$330 plus shipping & handling**. –
- Rental Equipment must be shipped back to us the day after you receive your repaired equipment. An additional AU\$30 per day will be charged for rental equipment not returned on time.

In the event that you have not made a decision in regards to your PowerFloat repair, your rental equipment must be returned within 30 days from date of invoice to avoid an additional daily charge of AU\$30 per day.

**We expect general wear and tear on rental equipment however excessive damage will incur a repair fee. Please follow the maintenance tips below.**

### **PowerFloat Maintenance Tips**

#### **LUBRICATION**

The PowerFloat should be greased after each 5 dental procedures and/or before it is put back in the case – even if just 1 horse was done. Clean each of 1 or 2 grease ports with a stiff bristle brush (can moisten with chlorhexidine in water – **BUT NEVER DIP THE POWERFLOAT IN WATER!!!**) to remove all debris in the port, so that you can see the silver ball bearing. Attach the needle point adapter on the grease gun to the grease port. Rotate the black steel shaft cover to expose the shaft openings and slowly pump until fresh grease begins to exit from the openings. When greasing the port close to the grinding disc, later model PF's will have the grease exit from under the disc. The grease port contains a spring-loaded ball and is designed to accept grease slowly. If the grease gun is warm, the grease will flow more easily. Replace the black steel cover. Clean the entire instrument before replacing it in its case, for biosecurity measures, but do not get water in and around the motor. Keep a dry towel in the carrying case to absorb moisture.

The grinding wheel of the PowerFloat is driven by a gear and spline system made of a metal alloy. The gears should be protected with adequate lubrication. Water and saliva can have a negative effect when it gains entry into the gear mechanism. Lubricate the PowerFloat regularly.

### **GENERAL TROUBLESHOOTING TIPS**

#### **STAINLESS STEEL GUARD TURNING**

The guard should fit tightly and not turn during grinding procedures. To tighten guard, place a nail in the shaft opening to lock the shaft and remove grinding wheel with narrow ended vice grips or a disc removal tool (available from EVDS) by turning wheel counter clockwise. Tighten the flat nut located on top of the stainless steel guard located under the grinding wheel with a Husky brand flare nut wrench – 17 mm metric, or with a suitable Vice-Grip. Turn the nut counter-clockwise to tighten.

#### **GRINDING WHEEL IS NOT TURNING**

Most likely, the mesh of the gears under the grinding wheel have jammed. The clutch prevents the shaft from turning the gears when you start the unit. Simply apply narrow ended vice grips or a disc removal tool (available from EVDS) to the top of the grinding wheel and forcibly turn the wheel clockwise or counter clockwise to un-jam the gears. Then press the trigger on the motor to begin operation.

### SEIZED COLLAR ROTATIONAL SYSTEM

If the instrument head cannot be rotated to an up or down position:

Over time, tooth debris can become cemented in the gap created when the shaft is extended (pull out position) to rotate the shaft. This gap should be oiled bi-weekly to prevent build-up of debris. To loosen, spray inside of the gap with WD40, then lubricate with 3 in 1 oil. Forceably loosen and resume using in both upper and lower position.

### ANGLE HEAD HEATS UP EXCESSIVELY

The right angle housing contains gears and bearings that generate heat at high RPM's. Continuous use of the PowerFloat at maximum RPM's is NOT recommended. To prevent overheating and injury to the horses soft tissue, the operator can periodically cool the housing by inverting the grinding head and pouring cold water on it with an injection syringe or a dose syringe. Resume after cooling. Cool only by pouring or dripping water on inverted right angle. DO NOT IMMERSE RIGHT ANGLE INTO WATER.

### UNABLE TO REMOVE GRINDING WHEEL

If left over an extended period of time, the threads on the grinding wheel shaft that screw into the right angle may become coated with debris causing seizing thus making removal difficult. Obtain graphite (Liquid Wrench) from local hardware store and lubricate under the wheel sufficiently so it will penetrate the threads. Let sit for 10 minutes and then re-attempt to loosen wheel by turning in a counter clockwise direction using narrow ended vice grips or a disc removal tool (available from EVDS). Repeat procedure until successful. Apply grease to the threads on the new grinding wheel before replacement.

### MOTOR LOSING POWER

The motor brushes may be worn. Please send PowerFloat to EVDS with completed PowerFloat Repair / Service Authorisation form and send registered mail to: Equine Veterinary & Dental Services PO Box 95, South Grafton, NSW 2460

### GRINDING WHEEL LOOSENS & UNWINDS DURING OPERATION

If this occurs, the forward/reverse button on the Drill has disengaged and is in the reverse position. The button on the right hand of the gun should be pushed in flush to the housing and secured for normal operation

## **CUSTOMER INFORMATION**

Date: \_\_\_\_\_ Vet's Name: \_\_\_\_\_

Clinic Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Ph Number: \_\_\_\_\_ Fax: \_\_\_\_\_

Email \_\_\_\_\_

I agree to the terms of this agreement:

Signature: \_\_\_\_\_