

DEARSON 8000 XT



Motorised System & Handpiece User Guide
English version

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Dearson Equine

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This form can be found on our website under the services tab.

enquiries@dearsonltd.com
www.dearsonvet.com

Please complete and return this form along with items for repair/service. Please make sure you describe exact faults/requirements.

Date:.....
Clients Name:.....
Clients Address:.....
.....
.....
Contact Details: please include at least one contact name and preferred method of contact
Name:.....
Phone:.....
Email:.....
Purchase order number (if applicable):.....
Please list items being returned (including serial numbers where applicable):.....
.....
.....
.....
.....

Please tick the box relevant: Service ☐ Repair ☐

Full Description of Fault/Faults and where possible please email video/pictures:.....
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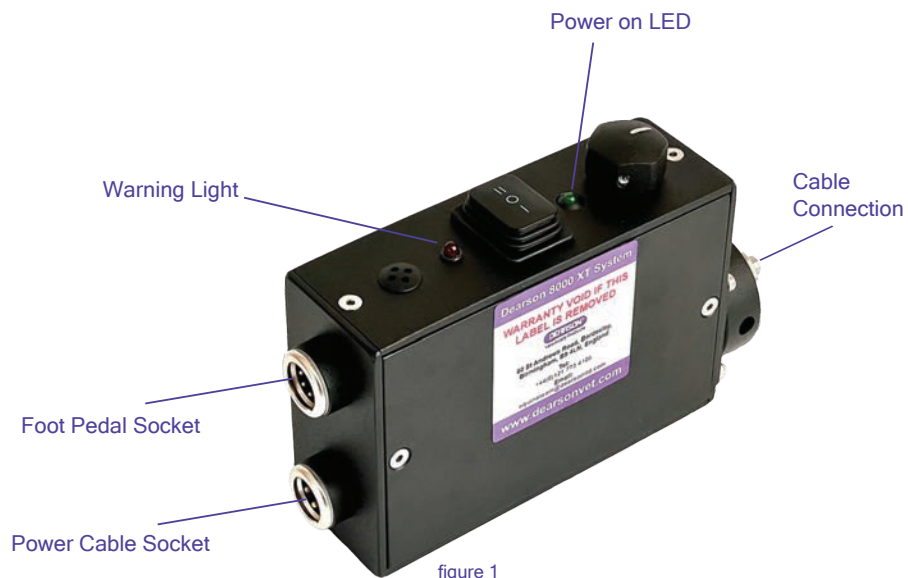


figure 1



figure 2

DEARSON®

Veterinary Products

enquiries@dearsonltd.com
www.dearsonvet.com

Here at Dearson Veterinary we have been providing a service to the Veterinary and Dental industry since 2007 and our dedicated team of experts have a great wealth of experience in Equine dentistry.

Our in-house repair service has been designed to provide a fast and informative process to minimise equipment downtime.

STEP BY STEP GUIDE

1. PACKAGE YOUR EQUIPMENT UP SUITABLY AND **INCLUDE A COMPLETED REPAIR FORM**
2. SEND US THE ITEM VIA YOUR CHOSEN METHOD. ALTERNATIVELY, DEARSON CAN ARRANGE A COLLECTION WHICH WILL BE CHARGEABLE. PLEASE SEND THE ITEM TO:
Dearson Limited - 60 St Andrews Road,
Bordesley, Birmingham, B9 4LN, England
3. Upon receipt the team will contact you to say its arrived and carry out an initial inspection
4. The team will contact you with a repair quotation
5. Once completed you will be contacted, and items will be dispatched



For further information on servicing and repairs please don't hesitate to contact us on

Phone: +44 121 773 4100

Email: enquiries@dearsonltd.com

CLEANING AND MAINTENANCE FOR YOUR DEARSON 8000 SYSTEM

HAND PIECES

- Start the machine at low RPM
- Attach hand piece
- Clean the diamond burr using Dearson brush and Dearson approved disinfectants
- While still running attach the grease gun into the and pump 3 times using Haynes Lubrifilm
- Switch off machine, remove handpiece and dry using a soft cloth
- Store in your box provided by Dearson



DRIVE CABLE

- Clean the outer sheath with a damp cloth
- Dry thoroughly with a soft dry cloth
- Once a week measure the distance between the inner and outer cable. This should be 25mm and adjust using the allen key provided by Dearson
- Once a month unscrew and slide down the outer cable from the inner cable. Wipe off the excess grease with paper towel and regrease with Foredom grease
- Store in your box provided by Dearson



MOTOR

- Clean the motor with a damp cloth
- Dry thoroughly with a soft dry cloth
- Pouches can be washed using a domestic washing machine on a temperature of 30 degrees or less and allow to air dry
- Store in your box provided by Dearson



BATTERY

- Wipe over with a damp cloth
- Dry thoroughly with a soft dry cloth
- Charge after use and remove from charger once fully charged
- Store in the box provided by Dearson

CASE

- Wipe over with a damp cloth
- Dry thoroughly with a soft dry cloth

CONTACT:

+44 121 773 4100

ENQUIRIES@DEARSONLTD.COM



DEARSON®
Veterinary Products

Power / Torque Limiter Reset Switch

Before connecting the battery cable to the controller, turn the speed selector switch to the top position as shown in [figure 2](#).

When the battery is connected to the controller the green light will be illuminated when the top switch is in the off position.

The system is ready to use.

Press switch I for handpiece and II for foot pedal shown in [figure 2](#).

Torque Limiter

During operation the controller is constantly monitoring the torque level to prevent damage to the electric motor and operates in two ways.

- 1) Initially there is a built-in time delay of 2 seconds, allowing the operator to reduce the amount of pressure applied during operation.
- 2) If the load remains above the torque limit for more than 2 seconds the system will cut out completely and the red LED will illuminate. The system will now need to be reset.

To reset the controller simply turn the speed control switch to the off position and then turn the power switch off and then turn it back on again.

Warning! When resetting the torque limiter, if the speed control switch is not set to the off position, the system will immediately start to operate at the last set speed when the power is turned back on.

No LED illuminated: Power Off battery cable not connected.

Green LED illuminated: Power on & system ready.

Red: Torque limit reached, power to motor off.

Speed/Direction

The speed selector switch has 9 positions providing 9 different speeds in anti-clockwise directions.

Warning! After use or at the end of the day the battery cable must be disconnected to preserve the charge on the battery

Note. Please remove any handpiece and disconnect the battery from the controller before commencing any maintenance on the flexible drive cable.

Removing the outer cable.



Unscrew the knurled nut on the aluminium flexible shaft coupling.



Slide the coupling and outer cable off the inner cable.



If replacing the outer cable, loosen the 6mm grub screw. (It is not necessary to remove the grub screw completely).



Slide the end of the outer cable out of the aluminium coupling.

Torque limit keeps switching the system off.

- Check the flexible inner and outer cables, they may be kinked or badly worn creating an extra load.
- Make sure your battery is fully charged.
- Remove the handpiece and try the system without it. It may be the handpiece that is causing the problem.

Battery Life.

- If you are working on the lower speed settings, these produce more torque and consequently, use more current, creating a greater demand on the battery. Try to vary the speeds to increase the day-to-day charge of the battery.
- Check charger is working.

No power.

- Check the outer case of the battery for signs of damage as one damaged cell can seriously affect the performance of the battery.
- Check for a damaged or broken cable on the battery.
- Check charger is working correctly.

Handpiece jammed or making a lot of noise.

- With the handpiece unattached Apply 6 pumps of Lubri film grease to the grease nipples and tap the head of the handpiece gently on a hard surface and then reattach to system. If the gears are still jammed, please send equipment in for servicing.

Please see Servicing and Repair form

<https://www.dearsonvet.com/repairs> when sending any equipment into the office



It is important to lubricate your handpiece regularly using a food grade grease. We recommend Haynes Lubrifilm Plus.



To lubricate the internal gears & bearings there is a grease point on the side of both the Applecore & Uni-Disc heads. Using a suitable sized grease gun, apply a small amount of grease. Two pumps should be sufficient.



A final grease at the end of the day is recommended. Whilst greasing, rotate the disc or burr with your fingers so that the grease moves around the internal gears. This will help to dispel any water within the head.



- 1) Plug in charger, LED should go green to show charger is ready to charge.
- 2) Connect to battery. LED should go orange and indicate charging has started.
- 3) LED will go green when fully charged.
- 4) Turn off charger and LED will go off.
- 5) When LED is off unplug the battery.

Removing the inner cable.



Align the grub screw in the brass coupling with the cut out in the housing.



Loosen the grub screw with a small, flat bladed screwdriver. (It is not necessary to completely remove the grub screw).



Slide the brass coupling away from the spindle. (If the coupling does not slide completely off it may be necessary to loosen the grub screw a little more).

Note. Please remove any handpiece and disconnect the battery from the controller before commencing any maintenance on the flexible drive cable.

Fitting the inner and outer flexible cable.



Slide the end of the outer cable into the flexible shaft coupling.



Gently tighten the 6mm grub screw.



Lay the inner cable out straight on a clean, flat surface and apply a THIN line of Foredom Flexible Shaft Lubricant along the entire length of the cable. (excluding the connectors on each end).

Important! Do not use an ungreased inner cable but also do not apply too much grease.



Insert the key drive end of the GREASED inner cable into the aluminium coupling end of the outer cable assembly.



Important! When using an Applecore handpiece and burr, always ensure that the burr is rotating in an anti-clockwise direction when the burr is facing toward you (see image). This will prevent the burr from unscrewing itself in use.



Place the open end of the supplied spanner onto the flats of the threaded drive spigot and hold both together in one hand...



...and screw the burr in. The burr can be screwed in firmly using only finger pressure but ensure that when in use the burr rotates in the correct direction as shown at the top of this page.



To remove the burr simply reverse the above procedure. Removal may require the use of grips as the burr may have tightened itself in during use.



When replacing the Uni Disc, the slot on the disc stem must align with the drive peg in the head.



Holding the Uni-Disc in place with your thumb gently tighten the centre screw with the supplied allen key. Do not over tighten as this may damage the hexagonal socket and will prove difficult to remove at a later date. The centre screw has been treated with an anti vibration treatment which looks like blue paint. If you remove this screw we recommend that you replace it with a new one.



The indexable head has four positions set at 90° apart. To change the position of the head, grip the shaft of the handpiece in one hand and the head in the other and pull apart to disengage the head, then twist in either direction to achieve the desired position. This may appear slightly stiff when new but should loosen up with use. Note! Do not try to twist the head until it has been disengaged.



Twisting the head 45° leaves a gap suitable to spray a waterproof lubricant such as WD40. We recommend that you lubricate this periodically.



Keeping the cable straight, slide the inner cable almost all of the way in, leaving the brass connector and a short length of inner cable exposed.



Lay the controller flat and align the flat on the drive spindle with the cut out in the threaded section.



Align the grub screw on the brass connector with the flat on the drive spindle and push the connector on ensuring you do not rotate the spindle as you do so.



Tighten the grub screw with a small screwdriver, then check the connector is secure by gently pulling back on it.



Screw the aluminium connector onto the housing.



Using the supplied gauge or a ruler check that the key drive end protrudes from the outer cable approximately 25mm (1 inch).



If the key drive protrusion length is correct then tighten the 6mm grub screw in the aluminium coupling.
If the length is not correct then loosen the 6mm grub screw and adjust the length by sliding the outer cable further in or out of the coupling.
When the correct length is achieved, tighten the grub screw.

Note. Please remove handpiece and disconnect from the controller before commencing any maintenance.

Removal and replacement of the Uni-Disc



Clean out the hexagonal hole in the centre screw to ensure the allen key is a good fit. Gently grip the disc with some grips and undo and remove the screw.



After removing the centre screw, the Uni-Disc may still be fixed in its seating position and will need to be removed with the supplied extractor screw (shown in picture).



Take the supplied extractor screw and screw it into the centre hole. This will raise the disc from its seating position, enabling easy removal.



Once removed, clean the seating position of any dirt and tooth debris