

Eco Pro User Guide

Quick, clean, reliable, quiet - the next generation for disc repair



I take just a few minutes to read and contain vital information for the machine's use...

What's In This User Guide?

- Getting started - repair a disc right now
- Getting to know your machine and how it works
 - Advanced features of your machine
- Maintenance and other useful information

Getting Started

Initial setup

With the machine you will find a setup sheet which includes a list of contents and briefly explains the setup of the machine. Once the machine is ready to go, the display will show "CD/DVD" and will display the number of minutes remaining on the chip.

Basic operation

Choose a disc for repair. For information on what can and cannot be repaired please refer to the "Disc Types" sheet.

For this first disc, we will run a light, 30 second repair cycle.

Choose a CD, DVD, game or data disc (not a PS3/Blu-ray at this stage - we will discuss these later).



Repair process:

1. The lid will automatically open when you turn the power on.
2. Place the disc shiny side up on the turntable.
3. Close the lid firmly until it clicks.
4. The machine will automatically start a 30 second cycle.
5. Once the cycle has finished, the lid will open.
6. Remove the repaired disc.



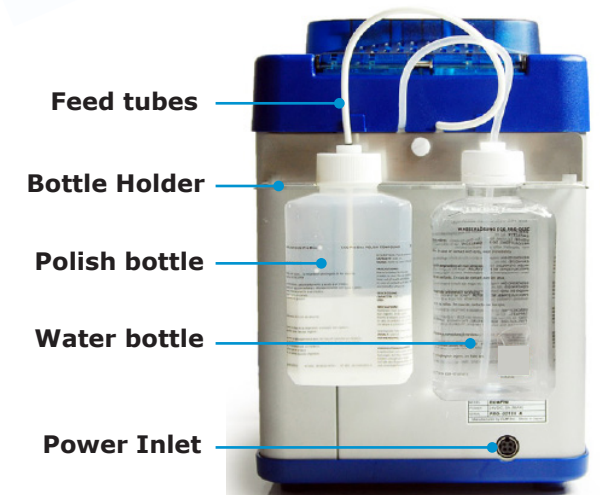
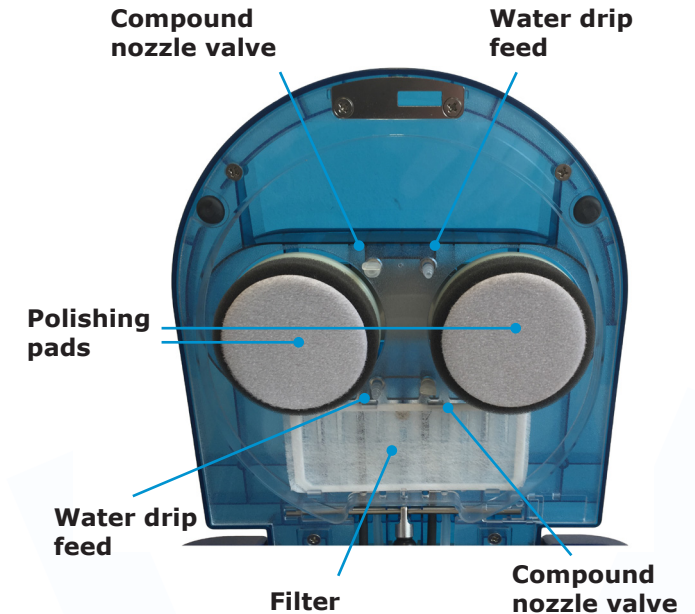
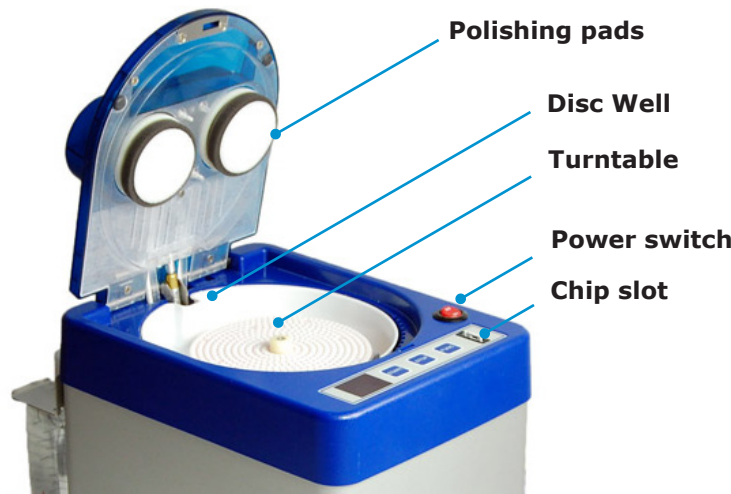
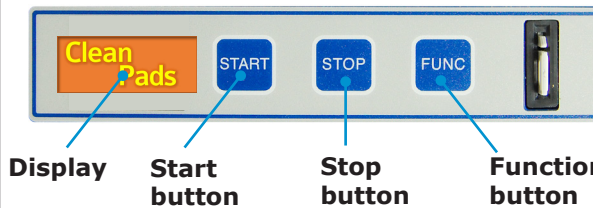
WARNING - Closing the lid without a disc may cause damage to the pads and turntable. Always place a disc on the turntable if closing the lid when the machine is switched on.

Inspecting a repaired disc

The disc should come out of the machine clean, dry and warm. Have a look at the repaired side; the light repair should have made a visible improvement.

If a more heavily damaged disc was chosen, the disc may need an additional repair.

Parts of the machine



Getting To Know The Machine

Understanding the repair cycle

The Eco Pro uses a single-stage disc repair process. In other words, the machine applies a constant, gradual repair to the disc in one operation.

A combination of abrasive liquid and heat is used to perform a repair. The plastic playing surface is heated up and softened, and then the liquid abrasive grinds away a thin layer of plastic, removing the scratches within it.

The machine uses two soft foam pads to apply both the liquid abrasive and water solution to the disc. The liquid abrasive removes the scratches while the water solution is used to stop the disc overheating.

With this process, the longer the disc is being repaired the more scratches are removed.

Compound considerations

Unlike most disc repair machines, the Eco Pro does not create any significant waste, however because of the heat generated by the machine, any leftover compound dries and so a small powdery residue will build up over time.

The well inside the machine is designed to catch most of this residue (please refer to the Maintenance section on how to clear this).

There are two other parts of the machine which collect residue and will ultimately effect the repair over time. Always remember these important points,



Blocked nozzle valves will damage your machine
Dirty pads will give a poor finish

Please read the next sections on how to combat this and how to get the most from your machine.

Clearing the nozzle valves

The two nozzle valves are designed to stop the compound drying in the lines. However these will over time become blocked with dried compound.



Nozzle valves

Before using the machine, remove the nozzle valves, roll them between your fingers to clear any dried polish and then reinstall them on the machine.

Cleaning the pads

For a clean and dry disc every time it is important to clean the pads regularly. There is a reminder programed into the machine which displays every 20 repair cycles. The message is **"Clean Pads"**.



Press any button to clear the message.

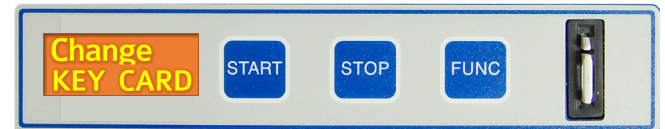
Simply rinse the pads with water from a tap until all visible signs of polish residue are removed. We advise waiting until the pads have dried out before re-fitting them in the machine.

If you choose not to clean the pads at this stage you will start to see some residue transfer to the disc. This may not directly affect the repair, but will require you to wipe each disc after each repair.

Setting up the consumables

Everything you need to operate your machine is included within the consumables pack. Each pack is designed to last for a set time – 800 minutes.

When the consumables have expired the message **"Change KEY CARD"** (Change Consumables) will appear. Discard the used pads, polish, water and chip before installing new ones.



There will be a little surplus polish in the container when the chip expires. **This is normal.** The bottle is overfilled a little to ensure you do not run out. There is no reason to keep this surplus as the new bottle is also a little overfilled - please discard it with the used pads and the chip.

Replacing the pads

The pads are attached with Velcro and are very simple to change.

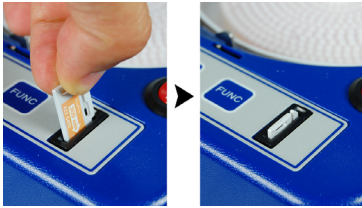
1. Peel the pads away from the edge of the pad holder.
2. Position the new pads to line up with the pad holder and firmly stick them down.



Getting To Know The Machine

Installing the chip

There is a chip attached to a card in each consumables pack, which monitors consumables usage and ensures the highest quality repairs.



Changing the polish & water

The replacement polish is included in the consumables pack. To change this:-

1. Unscrew the old bottle and replace with the new one.
2. Ensure the marker on the polish tube is at the top of the cap.
3. Refill the water bottle from the tap.
4. Ensure the water tube does not sit on the bottom of the bottle.



* The slots are different sizes and cannot be confused.

Priming the pumps

Your machine will have already arrived with the polish and water pumps primed and ready to go. However it is important to understand how to do this yourself as you will need to prime the pumps again if the tubes become cleared of liquid for any reason.

Step 1 - Preparation

When priming pumps, place a tissue under the drip feeds as shown to stop the turntable getting wet.



Step 2 - Priming the water

1. Press and hold **"START"** followed by **"FUNC"** to start water pump. **"Water Pump on"** will show on the display.
2. Once you see water coming out of the drip feed, press any button to stop the pump.



Step 3 - Priming the polish

1. Press and hold **"STOP"** followed by **"FUNC"** to start polish pump. **"Compound Pump on"** will show on the display.
2. Once you see polish coming out of the drip feed, press any button to stop the pump.



Clearing the polish tube

If you are not going to use the machine for a while it is important to clear the polish tube of polish so that it doesn't dry in the tube.

1. Press and hold **"START"** and **"STOP"** together followed by **"FUNC"** to start the polish pump in reverse. **"Compound Pump Rev"** will show on the display.
2. Once the tubes are empty press any button to stop the pump.



Advanced Features

Extended cycles

The Eco Pro is a single stage repair machine. The depth of repair is dictated by the length of time that the disc is processed for.

When you close the lid, the standard repair cycle will start, which lasts for 30 seconds. However, you may wish to extend this repair cycle for more heavily damaged discs.

- Closing the lid starts a 30 second repair, pressing the **"START"** button once during this repair will extend the total repair time to one minute.



- Pressing the **"START"** button twice after closing the lid, will add an additional minute, extending the total repair time to two minutes.



- Finally, pressing the **"START"** button three times after closing the lid, will add an additional two minutes, extending the total repair time to four minutes.



Using the Blu-ray cycle

Your Eco Pro disc repair machine has already been installed with the Blu-ray software required to repair Blu-ray discs. Refer to the **"Disc Types"** section for more information on the differences with Blu-ray discs.

To switch to Blu-ray repairs:

- Press the **"FUNC"** button. The display will change from **"CD/DVD"** to **"BD"** when in Blu-ray mode.



- The Bluray timings are the same as the standard timings (30 seconds, 1 minute, 2 minutes, 4 minutes).
- Just press the **"START"** button repeatedly to increase the timings.
- Press the **"FUNC"** button to go back to standard disc mode.

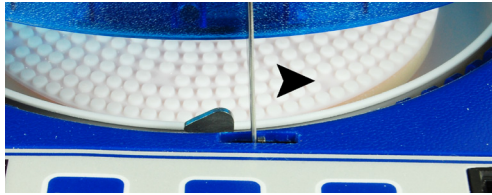
Notes

Maintenance And Information

Troubleshooting

If the door will not open...

It can be opened manually by inserting a pen or screwdriver into the slot on top of the machine and moving it to the right to open the catch.



Understanding the Display codes...

Display	Cause	Action
Clean Pads	auto prompt to clean pads every 20 mins	press any button to clear alert
No KEY CARD	machine cannot recognise the key card	turn off power switch, re-insert key card, switch on power again
Add Water	auto prompt to refill the water bottle	press any button to clear alert
Change KEY CARD	Key card and consumables depleted	turn off power switch replace key card and consumables, switch on power
Water Pump ON	Water pump is priming	press any button to clear stop, refer to "getting to know your machine" in this user guide
Compound Pump ON	Compound pump is priming	press any button to clear stop, refer to "getting to know your machine" in this user guide
Compound Pump Rev	Compound pump priming in reverse	press any button to clear stop, refer to "getting to know your machine" in this user guide
Starting	initialization	displays while machine is calibrating after being switched on
CD/DVD XXXmins	Ready to repair standard disc	refer to "getting started" in this user guide
BD XXXmins	Ready to repair Blu-ray disc	refer to "advanced features" in this user guide
CD/DVD Drying	Finishing repair	displays towards the end of the repair cycle

Regular checks

Pad holders

When changing pads check the pad holder to make sure that the Velcro has not deteriorated. Over time the pad holders will need replacing.

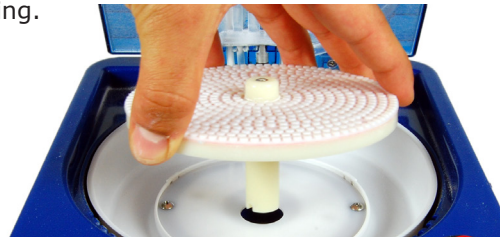
Replacement pad holders : 5055378121562

Turntable

Lift out the turntable and wash with warm water occasionally.

Keeping the turntable clean will prolong the life of the turntable and will also help ensure the label side of the disc remains clean and undamaged during repair.

Over time the turntable will wear and will need replacing.



Replacement Turntable : 5055378114083

Disc well

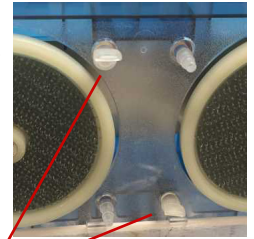
With the turntable removed you can also remove the disc well. Rinse it periodically to remove the residue built up from the repair process.



Nozzle Valves

Don't forget to regularly check that the compound nozzle valves are clear of dried compound.

To clear these valves simple pull from the machine, roll between your fingers to clear the dried compound, and then reinstall on the machine.



The machine should not be left without the nozzle valves in place, as these prevent air from working its way inside the tubing and solidifying the compound.

Ordering consumables

Consumables stock codes



Consumables pack Std (800 minutes):
5055378113383



Cloth & spray pack (Standard):
5055378101656



Cloth & spray pack (XL):
5055378101663

These consumables are all listed on our website, which is easy to use and offers free shipping on orders over £50! totaldiscrepair.co.uk/ecopro

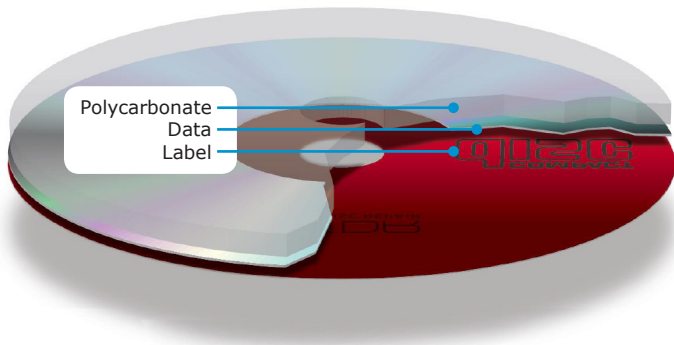
Alternatively, you can give us a ring:

Sales: 01202 489 500
Tech Support: 0800 412 5424

Disc Types

CDs

When discs were invented the process of construction was quite simple. These are what we call CD discs. To produce the disc, a solid polycarbonate disc was made. Then the data layer was applied to the top surface of the disc. To protect this data layer, a lacquer, or label, was then applied over the top of the data layer.



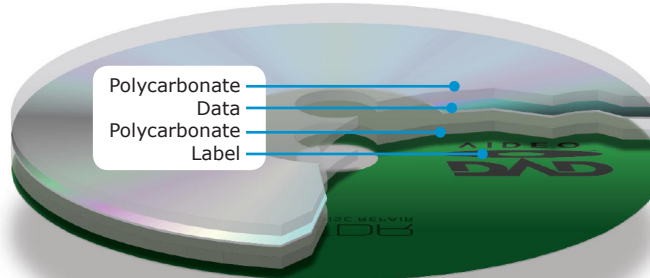
This made the data layer quite vulnerable because any scratch to the label could damage the data layer beneath. If a scratch has reached the data layer it is not repairable. Disc repair can only repair the polycarbonate on the underside of the disc.

Formats:

- Audio Books
- Audio CDs
- CD-ROMS
- Playstation version 1 discs

DVDs

The early CDs were mainly used for audio and so often a small scratch was not enough to disrupt the data. However as the data on discs became more complicated it became more important to protect the data layer. On DVD discs the data layer is sandwiched in the middle of the disc between two pieces of polycarbonate. This protects the data layer and makes the disc virtually indestructible. The only issue with this type of disc is that the two layers of disc can separate around the whole in the centre of the disc, although this is quite rare.



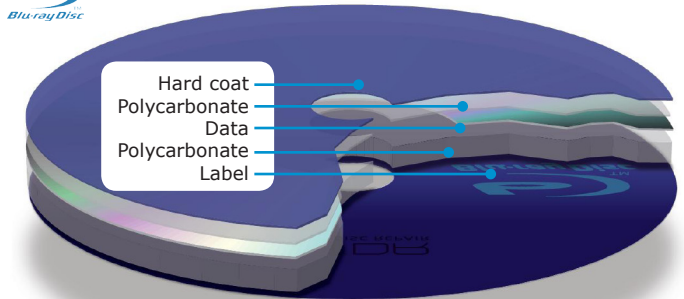
Because the data is so protected virtually all DVD discs can be repaired by the disc repair process.

Formats:

- DVDs
- Playstation 2 discs
- Xbox
- Wii
- DVD ROM

Blu-rays

With the invention of High Definition (HD) there was a need to carry more information on a disc and soon the data space on a DVD was not enough. Sony solved this with the invention of the Blu-ray disc.



It is essentially the same as a DVD with 2 main differences:

1. The polycarbonate on the bottom of the discs is much thinner than a DVD and so the number of times that the same disc can be repaired falls to around 10-15.
2. The polycarbonate on the bottom of the disc has a hard coated lacquer on top of it. This hard coat reduces the chance of the disc being scratched in the first place, but nonetheless scratches can still happen.

Formats:

- Blu-ray film
- Playstation 3
- Xbox One
- Playstation 4

Good machine use and safety...

Here are a few simple tips for you to get the most out of your disc repair machine.

We're here to help!

- ▶ Our Technical Support Team is on hand five days a week to help you. You can reach us by phone or email & there is also information on our website.
- ▶ Whenever you have a question, or if you suspect a problem, we'd love to hear from you – calls are free!
- ▶ Most things can be dealt with over the phone, though our turn-around time for repairs is pretty quick.

Staying safe whilst repairing...

- ▶ Locate and use the machine in a safe and suitable location.
- ▶ Never use a damaged power cable, or any other than the one supplied.
- ▶ Touching the machine or its plug with wet hands could cause injury.
- ▶ Seek medical attention if the polish comes in contact with your eyes or mouth.
- ▶ Please keep the machine out of the reach of children.

Prevent damage to your machine...

- ▶ Running a repair cycle on the machine without a disc on the tray may cause damage to the pads and tray surface.
- ▶ To clean the machine just use a damp cloth and a bit of CD spray can help. Please don't clean the machine by running it under a tap, electronics don't like water!
- ▶ Please contact us before disassembling the machine in any way.

Prevent voiding your warranty...

- ▶ Only use authentic TDR consumables in your machine, 'home brew' products invariably cause damage to the machine and of course void the warranty.
- ▶ Making unauthorised modifications to your machine is dangerous and will also void your warranty.
- ▶ Not using the machine in the way instructed by this user guide may also affect your warranty if faults occur.

Contacting Technical Support:

Freephone:

0800 412 5424

Lines are open Monday to Friday, 9am to 5pm (excluding Bank Holidays).

Email:

support@totaldiscrepair.co.uk

We aim to respond within an hour, though it could be up to one working day.

Thank you once again for buying with TDR and joining our extensive network of professional disc repairers, we recommend putting this sheet up near your machine for reference. If personal injury or damage to your machine or property occurs as a result of not following these instructions, TDR can not be held liable.