

**THE KEITH MONKS  
RECORD CLEANING MACHINE  
(RCM)**

The Mk.IIc 'Classic' RCM  
The Mk.IIe 'Sovereign' RCM  
The Mk.IV 'Archivist Uno' RCM  
The Mk.V 'Archivist Duo' RCM  
The Mk.VII 'Omni' RCM

**OWNER'S MANUAL**

The KEITH MONKS RECORD CLEANING MACHINE is a precision instrument. READ THE ENTIRE CONTENTS OF THIS MANUAL BEFORE ATTEMPTING TO USE THE RCM.

All transit protection devices must be removed before use.

Neither the manufacturer nor its agents, distributors and dealers can accept any responsibility for loss damage or injury sustained from improper use of this unit.

All AC Mains powered unit!

Always ensure mains power cable is disconnected before attempting any internal examination.

Please note KEITH MONKS AUDIO WORKS adopts a policy of continuous product development and improvement. All specifications, processes, descriptions and instructions are believed correct at time of writing, but we reserve the right to make undocumented improvements modifications and changes as required and at our discretion. E&OE.

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*Additional information, assistance and replacement parts are available from your authorised Keith Monks dealer, or from Keith Monks Audio Works direct.*

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## FEATURES & SPECIFICATIONS

### THE KEITH MONKS MK.IIc 'CLASSIC' RECORD CLEANING MACHINE (RCM)

- Designed for records and transcriptions up to 12"
- Deck mounted single brush system
- Unique built-in fluid application system with deck mounted hand pump for precise fluid control
- Heavy duty medical grade vacuum pump will not overheat even during long cleaning sessions
- High torque, heavy duty direct drive turntable motor
- Unique vacuum arm design with precision bearings for smooth traverse
- Unique nozzle design does not touch the record surface
- Professional rugged design for reliable continuous operation
- Broadcast-Archive standard precision cleaning
- Whisper quiet operation

### THE KEITH MONKS MK.IIe 'SOVEREIGN' ENTRY LEVEL RECORD CLEANING MACHINE (RCM)

As the 'CLASSIC' above except brush and fluid application uses manual brush, brush holder and fluid spray bottle

### THE KEITH MONKS MK.IV 'ARCHIVIST UNO' RECORD CLEANING MACHINE (RCM)

As the 'CLASSIC' above except -

- Designed for records and transcriptions up to 16"
- One on-deck brush system
- Unique built-in fluid application system with a deck mounted hand pump for precise fluid control

### THE KEITH MONKS MK.V 'ARCHIVIST' RECORD CLEANING MACHINE (RCM)

As the 'CLASSIC' above except -

- Designed for records and transcriptions up to 16"
- Two on-deck brush systems
- Unique built-in dual fluids application systems for different cleaning fluids, each with a separate deck mounted hand pump for precise fluid control

### THE KEITH MONKS MK.VII 'OMNI' RECORD CLEANING MACHINE (RCM)

As the 'CLASSIC' above except -

- Designed for 7" 10" and 10" records
- On-deck system with interchangeable brushes for each size record
- Unique built-in fully adjustable fluid application system with a deck mounted hand pump for precise fluid control

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## TECHNICAL SPECIFICATIONS

(all models)

### Electrical

European standard (UK, mainland Europe, also much of the Middle East, Asia, Australia and other 50Hz countries): now harmonised in line with EC and IEC Directives as 230V 50Hz

- Nominal power consumption: 0.32A ('Wash' mode), 1.1A ('Dry' mode)
- Fuse rating: 3.15A, 'F' (Fast Blow) or 'QB' (Quick Blow) type, standard 20mm x 5mm

North American standard (for USA and Canada, also much of Central and South America, parts of Asia etc): now harmonised in line with IEC Directives as 115V 60Hz

- Nominal power consumption: 0.64A ('Wash' mode), 2.2A ('Dry' mode)
- Fuse rating: 5A, 'F' (Fast Blow) or 'QB' (Quick Blow) type, standard 20mm x 5mm

Special standard (on request, for parts of Asia etc): 115V 50Hz

- Nominal power consumption: 0.64A ('Wash' mode), 2.2A ('Dry' mode)
- Fuse rating: 5A, 'F' (Fast Blow) or 'QB' (Quick Blow) type, standard 20mm x 5mm

### Sizes & Weights

Dimensions (W x H x D): 489mm (19.25") x 393mm (15.5") x 462mm (18.2")

Weight: 32kgs (70lbs)

Above dimensions are approximate for an unpacked RCM with lid cover fitted. Allow additional clearance to depth for accommodating power cable and IEC connector.

## SETTING UP

### Caution ! Heavy equipment ! 32kgs, 74lbs !

Unpack the RCM by lifting the unit with the packing end caps attached out of the carton. This is a heavy piece of equipment: if necessary seek assistance for lifting and moving the RCM.

The improved RCM cabinet design now incorporates a protective matching lid cover (optional on some models). This is secured in place using two toggle latches at the back – lift both catches open and lift the lid off the RCM.

Always ensure mains power lead is disconnected before attempting any internal examination.

Locate the two black bayonet-fit plastic thumbscrews at either end of the main control panel. Grip and give each thumbscrew a quarter turn, then remove and put aside in a safe place.

The main top deck may now be lifted by the handle in the centre of the main control panel.

To the right inside the RCM you will see *The Stick*, a wooden strip stretching from front to back and securing the bottle jars in place for transit. Use a medium crosshead/pozi/Philips screwdriver to remove the wood screws that hold the two small securing L-brackets. Keep the L-brackets safe in your accessories pack to refit for future transit. Take out *The Stick* - its main job is about to start.

### *The Stick*

Some say the real reason for its deceptively basic appearance is a closely guarded Keith Monks secret, and that calculating its precise dimensions took more computer power than NASA used to put a man on the moon. All we know is, it's called *The Stick* - and it works. *The Stick* supports the main top deck for when fluid or thread needs changing, or for general inspection and maintenance. It has a slot in one end and a reinforced P-clip (metal and rubber loop) fitted at the other.

To use *The Stick*, open and hold up the main top deck. Look underneath it for the metal runner which runs front to back on the left edge, then locate the black plastic covered pin fitted halfway back facing inwards – it's labelled *The Pin*.

With your other hand, hold *The Stick* so that the P-clip is at the front facing upwards, then slide the P-clip over *The Pin* until the edge of the strip meets the side of the cabinet.

Now look for a small metal L bracket in the bottom of the cabinet, on the left at the back. Take the other (slotted) end of *The Stick* and lower it onto the L bracket until the end of the strip meets the back of the cabinet. Ensure the upright part of the L bracket locates *inside* the slot in *The Stick*. Now release *The Stick*.

### *Accessories Pack*

Look for the accessories envelope inside the RCM and check its contents. These should be –

- Instruction manual
- Mains power lead with IEC connector one end and mains wall socket plug on other end (note this plug may need to be changed for some regions)
- Arm counterweight
- Brush sets (*Archivist* and *Omni* models only)
- Rethreading tube (small length of thin clear tubing)
- Hex allen key wrench(es)

*Transit screws*

The securing screws for locking the vacuum pump in transit are now fixed into the cabinet base and no longer need removing.

The vacuum pump is the large motor fitted to the bottom of the cabinet near the front. Loosen and remove the wingnuts and penny washers

The plastic transit support pillars now have pull-tags for easy removal. Pull these outwards away from the pump, and the pillars will then pull free from between the pump plates.

Do not transport the RCM without first replacing the wingnuts washers and plastic support pillars.

Keep them safe in your accessories pack and refit for future transit.

Failure to remove the transit screws before using this instrument may cause severe and irreparable damage to your RCM.

*Finish setup*

Remove arm counterweight, hex allen key wrench(es), any extra brush sets and the IEC mains power lead from the accessories pack.

Remove the suction arm tie wrap and protective packaging from the top deck components, and store them in the accessories pack for future transit.

Replace accessories pack in bottom of cabinet.

Gently lower main top deck back down until it comes to rest on the wooden support strips on either side of the cabinet.

Refit both black plastic thumbscrews at each end of the control panel, then twist a quarter turn to secure.

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## PREPARING TO USE YOUR RCM

### *Warning!*

Dry brushes can damage records! At the start of each cleaning session, always prime brushes by rubbing in some of the cleaning fluid before starting to wash the first disc of the session.

### *Basic balancing of the suction arm*

For transit protection the suction arm counterweight requires fitting after shipping, and may need occasional readjustment after prolonged use or parts replacement. Ensure unit is switched off before you start.

No special measuring devices are usually necessary for this procedure (however for those who prefer to try anyway, 2 grams is a typical guide although this can vary between units). Simply loosen the hex grub screw on the weight using the hex wrench ('Allen key') supplied. Gently slide the weight all the way over the shaft at the back of the suction arm, ensuring the exposed hex grub screw is facing to the right.

Supporting the arm head with one finger, now slowly move the weight back with your other hand until removing your finger allows the arm to *slowly* sink downward toward the deck.

Then retighten the hex grub screw in the counterweight. The suction will now keep the nozzle in place during vacuuming.

### *Releasing the brush block(s) – Classic, Archivist and Omni models*

For transit protection the brush block(s) are locked. Release by locating the hex grub screw on the side of the brush block pillar. Take the hex allen key wrench and give the hex screw a quarter turn. Lift the knurled joint at the top of the pillar several times to check for smooth movement. Loosen slightly more if necessary. To avoid the screw falling out be careful not to over-loosen.

### *The Keith Monks Pyr\Mat*

The neoprene construction of the Keith Monks Pyr\Mat™ is obviously well suited to a wet environment, but the design also offers a number of further improvements over the mats used on standard record cleaners.

Pyr\Mat's distinctive profile – an array of miniature 'pyramids' – serves a number of purposes. By minimising contact between mat and disc, fluid spread on the underside of the record is substantially reduced. Yet the 'soft yet firm' material still provides excellent grip, allowing a good degree of scrubbing to take place.

In addition, the raised profile allows dust and dirt to fall into the wells between the 'pyramids'. This stops the dirty side of a record recontaminating the clean side after you turn it over. The particles in the wells may be periodically brushed or washed away.

The diameters of each Pyr\Mat are deliberately undersized for each record size, further preventing fluid droplets from spreading underneath during cleaning, and reducing fluid contamination to an absolute minimum.

Keith Monks Pyr\Mats™ are available in three sizes for 7" 10" and 12"/16" records. The Mk.VII *Omni* RCM is supplied complete with a set of all three mats.

Use the correct mat for the size of record.

### *The controls*

Day to day operation is extremely simple and designed to be easy to understand from a quick glance at the front panel.

The main toggle switch is located to the right of the front panel. It has 3 positions –

‘Wash’ – activates the turntable only, for the wash cycle

‘Off’

‘Dry’ – activates the vacuum pump, the arm motor, the buffer thread reel-out motor and the turntable, for the vacuum cycle

Selecting either the ‘Wash’ or ‘Dry’ position lights up the corresponding neon indicator lamp alongside. The system runs so quietly even in ‘Dry’ suction mode that the lamps allow a simple check of the status of the unit.

## RECORD CLEANING FLUIDS

### *Cleaning chemistries*

Although you can use almost any preferred and proven cleaning chemistry with this unit - either proprietary or homemade - we have developed Keith Monks discOvery™ Natural Precision Record Cleaning Fluids to bring out the best results from your Keith Monks RCM - and our unique blends are biodegradable and contain no artificial chemicals or alcohol.

See the following pages for specific instructions on using each discOvery™ fluid type.

The fluid jar holds up to 750ml.

Aged and/or decomposing acetates, lacquers, laminated and vulcanite discs and other specific disc types such as RCA Victor Victrolac™ radio transcriptions may require special attention and treatment.

Always try a type of discOvery™ or your own chemistry on a non-critical candidate first. Be aware that the surfaces of already-deteriorated discs may be further compromised by any cleaning solutions.

If you are unsure about using proprietary fluids on particularly rare, precious or damaged artefacts, contact us on the email address on the front of this manual, or check with an audio restoration specialist. Websites such as [www.audio-restoration.com](http://www.audio-restoration.com) have many useful tips on the subject.

**WARNING! Never use ANY alcohol-based fluid chemistries on 78s and other shellac discs!**

Neither the manufacturer nor its agents, distributors and dealers can accept any responsibility for loss damage or injury sustained from any fluid used with this unit which we collectively or individually and at our discretion consider to be incorrect, inappropriate or potentially harmful to the Machine and/or the type of record cleaned. If in doubt, please ask your Keith Monks dealer or supplier.

### *Filling the clean fluid jar(s) ('Classic' 'Archivist' and 'Omni' RCM models)*

For regular use, first dispense the appropriate bottle of Keith Monks discOvery™ Natural Precision Record Cleaning Fluid into the clean fluid bottle jar -

1. Remove the selected clean fluid jar (the one with a single tube) and unscrew the lid.
2. Fill with your chosen cleaning fluid chemistry.
3. Refit the jar lid and fit jar back inside its chamber in the RCM.

Otherwise dispense fluid straight from the bottle. See following pages and labels on bottles for specific instructions for each discOvery™ fluid type.

Keith Monks discOvery™ Natural Precision Record Cleaning Fluids deliver an unrivalled combination of deep cleaning, noise reduction and sound enhancement. Yet our unique recipes contain no alcohol and no artificial chemicals or additives at all.

discOvery™ reveals the true fidelity hidden in your records. Middle and upper frequencies sparkle with natural clarity, while the lower registers glow with previously unheard warmth and depth. Recordings become more open and detailed, previously hidden voices and instruments are suddenly revealed, and the soundstage dramatically improved overall.

discOvery™ deep cleans your records as never before removing static, surface noise, grit, grease, fume residue, excess mold release pressing compounds, as well as residues left behind by other fluids and cleaners.

Biodegradable discOvery™ contains nothing but pure botanicals and other renewable natural ingredients with the purest triple filtered distilled water. Carefully blended and perfected from an original Monks recipe dating back to 1976.

Keith Monks discOvery™ performs in *perfect harmony* with all Keith Monks Record Cleaning Machines. *Naturally.*

Keith Monks. True fidelity, unlocked.  
Making records sound better since 1969.

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## KEITH MONKS discOvery 33/45™

Natural Precision Record Cleaning Fluid  
for vinyl records

### *Directions for use*

Shake bottle well to dissolve any remaining active ingredients. We recommend using a vacuum process to remove fluids after washing. All Keith Monks discOvery™ Natural Precision Record Cleaning Fluids work best on a Keith Monks Record Cleaning Machine - *naturally.*

1. Wipe off excess dust with a soft dry lint-free cloth.
2. For regular use, add the contents to the clean fluid reservoir as per your RCM's instructions. For infrequent use, or if your machine has no built-in wash system, use straight from the bottle.
3. With the turntable revolving, apply the fluid with the correct brush and wash the record as per your machine's instructions. Washing usually takes around 15-30 seconds depending on the soiling on the disc.
4. Vacuum dry as per your machine's instructions.

### *Cleaning tips*

- To avoid cross-contamination keep separate Keith Monks discOvery™ Precision Record Cleaning Brushes for each different fluid and record type (vinyl, shellac etc), or wash brushes thoroughly before cleaning other types of disc.
- To avoid recontamination after cleaning place record in a brand new antistatic sleeve.
- Position brush carefully to avoid wetting the label on the record.
- Our development work has kept cleaning times down to an absolute minimum. No additional cleaning benefits are usually found by leaving fluid on records for longer than recommended and may cause audible residue through partial evaporation or even compromise the integrity of the record surface and its protective layers.
- Due to its porous nature, never leave fluids on 78s and other shellac discs longer than specified.
- While discOvery™ will yield sonic improvements on almost any disc, extra-hardened deposits may remain especially on poorly-stored records and when used in cold conditions. This may often be cured by a second clean.
- \*Use special care and discretion when cleaning aged discs where surface integrity may be compromised.
- The manufacturer and its distributors and dealers cannot accept responsibility for any adverse effects experienced as a result of incorrect use of this product.

### *Handling discOvery™*

- No adverse effects have been found during testing of Keith Monks discOvery™. However as with any cleaning product natural or otherwise, use basic common sense precautions when handling. Keep out of reach of children and pets. Do not swallow. After use wash hands with soap and warm water. If product comes into contact with eyes, rinse immediately and thoroughly with clean water. Avoid contact with especially sensitive skin or if susceptible to allergies, or if you are pregnant or breastfeeding. Seek medical attention immediately if you start to experience excessive or unusual symptoms.
- After use wash brushes with soap and warm (not hot) water, then rinse and leave end-up to dry.
- Keith Monks discOvery™ is biodegradable and may be simply washed away after use.
- Naturally photosensitive: store in a cool dark place.

Keith Monks discOvery™ Natural Precision Record Cleaning Fluids deliver an unrivalled combination of deep cleaning, noise reduction and sound enhancement. Yet our unique recipes contain no alcohol and no artificial chemicals or additives at all.

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discOvery™ deep cleans your records as never before removing static, surface noise, grit, grease, fume residue, excess mold release pressing compounds, as well as residues left behind by other fluids and cleaners.

Biodegradable discOvery™ contains nothing but pure botanicals and other renewable natural ingredients with the purest triple filtered distilled water. Carefully blended and perfected from an original Monks recipe dating back to 1976.

Keith Monks discOvery™ performs in *perfect harmony* with all Keith Monks Record Cleaning Machines. *Naturally*.

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Making records sound better since 1969.

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## KEITH MONKS discOvery78™

Natural Precision Record Cleaning Fluid  
for shellac records

(also acetates, lacquers, laminated and vulcanite discs\*)

### Directions for use

Shake bottle well to dissolve any remaining active ingredients. We recommend using a vacuum process to remove fluids after washing. All Keith Monks discOvery™ Natural Precision Record Cleaning Fluids work best on a Keith Monks Record Cleaning Machine - *naturally*.

1. Wipe off excess dust with a soft dry lint-free cloth.
2. For regular use, add the contents to the clean fluid reservoir as per your RCM's instructions. For infrequent use, or if your machine has no built-in wash system, use straight from the bottle.
3. With the turntable revolving, apply the fluid with the correct brush and wash the record as per your machine's instructions. Washing usually takes around 15-30 seconds depending on the soiling on the disc.
4. Vacuum dry as per your machine's instructions.

### Cleaning tips

- To avoid cross-contamination keep separate Keith Monks discOvery™ Precision Record Cleaning Brushes for each different fluid and record type (vinyl, shellac etc), or wash brushes thoroughly before cleaning other types of disc.
- To avoid recontamination after cleaning place record in a brand new antistatic sleeve.
- Position brush carefully to avoid wetting the label on the record.
- Our development work has kept cleaning times down to an absolute minimum. No additional cleaning benefits are usually found by leaving fluid on records for longer than recommended and may cause audible residue through partial evaporation or even compromise the integrity of the record surface and its protective layers.
- Due to its porous nature, never leave fluids on 78s and other shellac discs longer than specified.
- While discOvery™ will yield sonic improvements on almost any disc, extra-hardened deposits may remain especially on poorly-stored records and when used in cold conditions. This may often be cured by a second clean.
- \*Use special care and discretion when cleaning aged discs where surface integrity may be compromised.
- The manufacturer and its distributors and dealers cannot accept responsibility for any adverse effects experienced as a result of incorrect use of this product.

### Handling discOvery™

- No adverse effects have been found during testing of Keith Monks discOvery™. However as with any cleaning product natural or otherwise, use basic common sense precautions when handling. Keep out of reach of children and pets. Do not swallow. After use wash hands with soap and warm water. If product comes into contact with eyes, rinse immediately and thoroughly with clean water. Avoid contact with especially sensitive skin or if susceptible to allergies, or if you are pregnant or breastfeeding. Seek medical attention immediately if you start to experience excessive or unusual symptoms.
- After use wash brushes with soap and warm (not hot) water, then rinse and leave end-up to dry.
- Keith Monks discOvery™ is biodegradable and may be simply washed away after use.
- Naturally photosensitive: store in a cool dark place.

Keith Monks discOvery™ Natural Precision Record Cleaning Fluids deliver an unrivalled combination of deep cleaning, noise reduction and sound enhancement. Yet our unique recipes contain no alcohol and no artificial chemicals or additives at all.

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Making records sound better since 1969.

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**KEITH MONKS**  
**discOvery™**  
**BreakTheMold™**

Natural Precision Record Cleaning Fluid  
Antifungal pre-wash concentrate for  
vinyl and shellac records

*Directions for use*

For use as a concentrated pre-wash only. Shake bottle well to dissolve any remaining active ingredients.

We recommend using a vacuum process to remove fluids after washing. All Keith Monks discOvery™ Natural Precision Record Cleaning Fluids work best on a Keith Monks Record Cleaning Machine - *naturally.*

1. Wipe off excess dust with a soft dry lint-free cloth.
2. With the turntable switched off and using the nozzle in the cap, apply BreakTheMold™ straight from the bottle directly onto the affected area of the record.
3. Leave fluid on record for 1 minute, then work fluid into the grooves preferably using a discOvery™ brush set aside for this purpose. Leave for 1 more minute.
4. Now switch on the RCM and wash the record as normal using either discOvery33/45™ for vinyl, or discOvery78™ for shellac.
5. Vacuum dry as per your machine's instructions.

*Cleaning tips*

- To avoid cross-contamination keep separate Keith Monks discOvery™ Precision Record Cleaning Brushes for each different fluid and record type (vinyl, shellac etc), or wash brushes thoroughly before cleaning other types of disc.
- To avoid recontamination after cleaning place record in a brand new antistatic sleeve.
- Position brush carefully to avoid wetting the label on the record.
- Our development work has kept cleaning times down to an absolute minimum. No additional cleaning benefits are usually found by leaving fluid on records for longer than recommended and may cause audible residue through partial evaporation or even compromise the integrity of the record surface and its protective layers.
- Due to its porous nature, never leave fluids on 78s and other shellac discs longer than specified.
- While discOvery™ will yield sonic improvements on almost any disc, extra-hardened deposits may remain especially on poorly-stored records and when used in cold conditions. This may often be cured by a second clean.
- \*Use special care and discretion when cleaning aged discs where surface integrity may be compromised.
- The manufacturer and its distributors and dealers cannot accept responsibility for any adverse effects experienced as a result of incorrect use of this product.

*Handling discOvery™*

- No adverse effects have been found during testing of Keith Monks discOvery™. However as with any cleaning product natural or otherwise, use basic common sense precautions when handling. Keep out of reach of children and pets. Do not swallow. After use wash hands with soap and warm water. If product comes into contact with eyes, rinse immediately and thoroughly with clean water. Avoid contact with especially sensitive skin or if susceptible to allergies, or if you are pregnant or breastfeeding. Seek medical attention immediately if you start to experience excessive or unusual symptoms.
- After use wash brushes with soap and warm (not hot) water, then rinse and leave end-up to dry.
- Keith Monks discOvery™ is biodegradable and may be simply washed away after use.
- Naturally photosensitive: store in a cool dark place.

## WASHING A RECORD

### *Warning!*

Dry brushes can damage records! At the start of each cleaning session, always prime brushes by rubbing in some of the cleaning fluid before starting to wash the first disc of the session.

Before starting the Wash procedure, remove any excess dust and dirt from the record surface using a soft dry lint-free cloth.

### THE RCM MK.IIe 'SOVEREIGN' RECORD CLEANING MACHINE

1. Unscrew hand trigger on the spray bottle supplied.
2. Fill the bottle with the correct type of discOvery™ or your own chosen cleaning fluid chemistry using the funnel supplied, and refit the hand trigger spray.
3. Place record onto the turntable and turn main switch up to 'WASH' position. The turntable will now revolve.
4. Pick up the brush holder - the wooden block sitting at the front of the bottle rack inside the cabinet.
5. Fit an appropriate size brush by inserting it into the slot on the underside of the holder (see parts list at the back of this manual for list of the various brush sizes available). Note: to make removing the brush easier, there is a cutout at one end of the holder. Fit one end of the brush so that it overlaps the cutout and lines up with the edge of the holder.
6. For the first clean of the day, prime brush by applying a little fluid to the bristles and work it in with a clean piece of kitchen towel.
7. Hold brush holder over the disc with its slot facing inwards towards the label (this makes it easier to see where the bristles are). Make sure the bristles line up each end: avoid wet bristles touching the label by making them overhang the outer edge of the record if necessary.
8. Lower brush onto record and, at the same time, aim nozzle of spray bottle half way along the brush and squeeze trigger. Work the bristles gently but firmly into the record for several seconds, applying more fluid if required, until an even mirrored sheen of fluid covers the disc.
9. Now proceed immediately to the VACUUMING A RECORD DRY section.

### THE KEITH MONKS MK.II 'CLASSIC' RECORD CLEANING MACHINE

This model has 1 deck mounted brush block - a unique combined brush holder and fluid application system - and 1 reservoir for clean fluid applied using 1 hand pump.

1. Gripping the knurled section at the top of the brush block pillar, lift and swing the brush block away from the deck until it locks in position.
2. Loosen the thumbscrew on the top of the brush block.
3. Turn the brush block upside down.
4. Insert a brush into the slot. Slide brush so that the right hand edge of the wooden brush handle lines up with the right hand edge of the block.
5. Tighten the two thumbscrews on the side to hold the brush in position.
6. Turn the block over until the brush is angled downwards at about 45 degrees.
7. Lift and swing the brush block back into its washing position. Make sure the brush and block are still angled away from the record.
8. Slide the brush block along its supporting arm until the edge of the brush bristles are just short of the label, then gently tighten the top thumbscrew (do not overtighten!) Make sure the bristles line up correctly: avoid wet bristles touching the label by making them overhang the outer edge of the record if necessary.
9. For the first clean of the day, prime brush by applying a little fluid to the bristles and work it in with a clean piece of kitchen towel.
10. Locate the handpump on the control panel.

11. Slowly depress the handpump with one hand while, at the same time, turning the brush block downwards until the bristles touch the record and the block is standing almost vertical.
12. Continue applying fluid one pump at a time until an even mirrored sheen of fluid covers the disc.
13. Scrub the record in this way for 5 to 10 seconds, depending on the soiling on the disc. Keith Monks discOvery™ brushes have specially tapered soft tips to allow a good degree of scrubbing action. However, scrubbing the disc for longer should not be necessary and is not recommended.
14. Gripping the knurled section at the top of the brush block pillar again, lift and swing the brush block away from the deck until it locks in position.
15. Now proceed immediately to the VACUUMING A RECORD DRY section.

#### THE KEITH MONKS MK. VII 'OMNI' RECORD CLEANING MACHINE

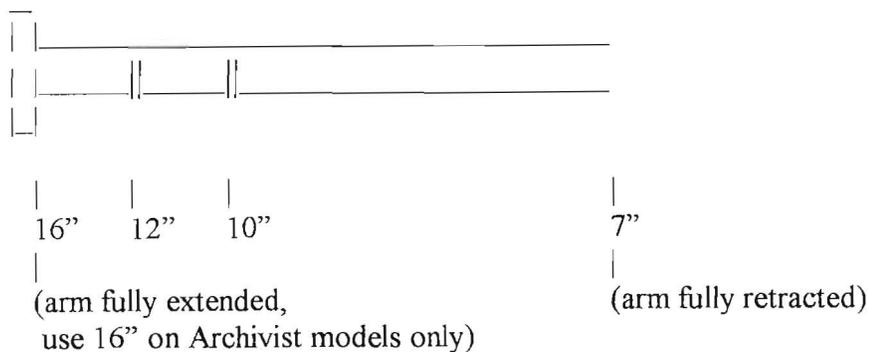
The *Omni* differs from the 'Classic' with an enhanced brush block adjustable for all sizes of record. Follow washing procedure as steps 1-15 above for the 'Classic' model, but adjust as follows:-

- The *Omni* comes supplied with 3 interchangeable brushes for 7" 10" and 12" records. Select the correct size brush for the size of record, and insert into brush block as step 4 above.
- On the special *Omni* block there are a number of tapped holes for the brush-locking thumbscrews. The hole nearest the centre of the record always has a thumbscrew fitted; the other holes offer a choice of positions, depending on which brush has been selected. These are -

o	o	o	o	o
All	7"	10"	12"	16"
				(use 16" on Archivist models only)

- Leave the first thumbscrew in the left hand hole ('All' above). Move the second thumbscrew to the appropriate position for the record size and brush selected.
- The enhanced block also has a piston arm which allows fluid flow adjustment for different sizes of record. Rings on the brass piston bar make it easy for the user to adjust the fluid for each size:-

#### Piston arm viewed from front of Machine



- Grip the knurled disc on the piston arm, and move it to the appropriate position for the record size and brush selected. First locate the silver collar on the side where the brass piston bar enters the brush block:
- 7" records: push the piston arm all the way in
- 10" records: line up the first ring on the piston bar with the silver ring.
- 12" records: line up the second ring on the piston bar with the silver ring.  
(Archivist models only) -
- 16" transcriptions: pull the piston arm until fully extended.

**MAKE SURE PISTON ARM IS FULLY PUSHED HOME BEFORE REPLACING LID COVER!**

## THE KEITH MONKS MK.V 'ARCHIVIST' RECORD CLEANING MACHINE

This model has 2 deck mounted brush blocks - a unique combined brush holder and fluid application system - and 2 reservoirs for different clean fluids each applied using 2 separate hand pumps.

The hand pump on the left (marked 'WASH 1') applies clean fluid to the front brush block from the front fluid jar. As it is close to the front, this brush and fluid system is usually used for your most frequent cleaning tasks - for instance, if you have a lot of vinyl records compared to other types then use this system for your vinyl cleaning fluid chemistry. Or if you prefer to use two fluids regularly, use the front brush system for the fluid you use the most.

The hand pump on the right (marked 'WASH 2') applies clean fluid to the rear brush block from the centre fluid jar. Use this for less frequent washing processes as may from time to time be necessary - for instance, additional rinsing with distilled water, or special cleaning chemistries.

Otherwise, washing procedure is exactly the same as steps 1-15 above for the 'Classic' model.

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### *Washing tips*

Keith Monks discOvery™ Natural Precision Record Cleaning Fluids include natural wetting agents which help flood the disc with cleaning fluid to assist the process during the wash cycle. This makes for an especially 'active' fluid - too little can yield a poor wash, while too much can lead to spills on the deck. It usually takes a little practise to get used to the system and learn how to dispense the correct amount of fluid.

If the record is especially dirty - such as badly stored or flood damaged discs - then the waste tubing may become so clogged with dirt that it has to be replaced. To prevent this happening, it may be advisable to pre-clean and remove the excessive visible dirt with a soft cloth - or, with thick layers of dust and dirt, a domestic vacuum cleaner with a soft brush attachment - before 'proper' cleaning on the Keith Monks.

**IMPORTANT:** after wash cycle is complete, do not delay vacuuming the fluid! Leaving fluid on the record for excessive periods rarely results in an improved wash, and may compromise the integrity of the record surface and its protective layers. In extreme cases vacuuming after partial evaporation could even leave marks on the record. See the VACUUMING A RECORD DRY section following.

### *Warning!*

Dry brushes can damage records! At the start of each cleaning session, always prime brushes by rubbing in some of the cleaning fluid before starting to wash the first disc of the session.

## VACUUMING A RECORD DRY

1. Set the control switch to the 'Dry' position.
2. Holding onto the small handle at the suction arm head, lift the arm from its rest and swing it across towards the centre of the record.  
You will feel a little resistance and a springy sensation as you move the arm; this is the arm drive belt readjusting itself and is part of the design of the system. Moving the arm head a little beyond your chosen position will allow it to spring back to the correct point.
3. Move the arm to and fro until the head is positioned at the point where the label starts. Gently lower the arm onto the record.
4. The arm will now slowly move across the disc, vacuuming up the used fluid together with the floating or dissolved dirt and particles as it goes.
5. At the end of the cycle, before switching off it is usual to take the suction nozzle back and move it gently around and over the edge and run-in groove area to vacuum up any remaining droplets.
6. Your record is now dry, completely clean and ready to play.

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*Vacuuming tips*

Centrifugal forces from the turntable propelled around at speed may allow excess fluids to accumulate at the record edge during cleaning. Excess amounts may then be flung off onto the main deck. To help prevent this happening, while the record is being vacuumed hold a paper towel gently against the edge of the record for a few turns to soak up the excess.

Any spills onto the deck may be simply wiped away using a soft kitchen towel.

During vacuuming the nylon thread which buffers the suction nozzle off the record may sit in a variety of positions around the nozzle – behind, to one side or even wrapped around it – depending on a number of factors including the pitch of the record groove. This is quite normal and all positions will still provide adequate buffering.

To avoid recontamination after cleaning, place your clean record in a new antistatic sleeve.

**IMPORTANT:** after wash cycle is complete, do not delay vacuuming the fluid! Leaving fluid on the record for excessive periods rarely results in an improved wash, and may compromise the integrity of the record surface and its protective layers. In extreme cases vacuuming after partial evaporation could even leave marks on the record.

After prolonged periods without use, fluid remaining on the thread at the nozzle after cleaning can evaporate and harden. If the RCM has not been used for some time, reel out a little thread and vacuum back through the system (see Fault Finding and Trouble Shooting section).

**WARNING!**

A full waste fluid jar will leak fluid into the vacuum pump and other parts of the Machine causing extensive damage not covered by the equipment warranty.

Make checking the jar levels part of your regular cleaning routine. Always check and empty the waste jar (the one with 2 tubes) regularly and each time you refill the clean fluid jar(s).

**NEVER LET THE WASTE FLUID JAR BECOME MORE THAN TWO\_THIRDS FULL!**

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## CARE AND MAINTENANCE

**WARNING:** Before attempting any internal examination of your RCM, for your own safety, disconnect the AC power (mains) supply.

- **KEEP THE MACHINE CLEAN.** Records need to be kept clean and free of dust, so it makes sense to do the same with the machine that cleans them. Wipe the cabinet, top deck and deck components with a damp cloth, and a little mild detergent or Windex glass cleaner if required.
- **CHECK THE WASTE JAR REGULARLY.** (Remember, the waste jar is the one with two tubes).

**WARNING: NEVER allow the waste jar to become more than three-quarters full, as suction may draw fluid through the outlet tube and cause very expensive damage to the vacuum pump. Any such damage will not be covered under warranty.**

- **CHECK THREAD CONDITION** frequently. Any repeated fouling of the buffer thread points to other problems that should be promptly investigated.
- **EXAMINE THE NOZZLE MONTHLY** and clean off any accumulated dirt. If visibly worn or damaged, the nozzle should be promptly replaced. Do not attempt to clean a record with a damaged nozzle. Regular cleaning of 16", 78rpm and shellac discs may require the nozzle to be replaced more frequently due to the more abrasive composition of the material, and the wider groove pitch. Replace the nozzle as follows:
  1. Loosen the thread reel-holder hand-nut and reel out approximately 12" (30cm) of thread, and cut just below the nozzle tip.
  2. Activate the vacuum pump (switch to 'dry' position).
  3. Switch off when remaining used thread has been vacuumed up the nozzle and into the waste.
  4. Grip the nozzle connecting the plastic suction tube just above arm head and push down firmly. Nozzle will disengage.
  5. Detach old nozzle from connecting tube.
  6. Take new nozzle and fit into arm head, pushing firmly until fully in position.
  7. While holding the bottom of the newly installed nozzle, push the connecting tube firmly onto the top of the new nozzle as far as it will go.
  8. Switch on vacuum pump again, and offer the remaining thread to the nozzle tip – vacuum will draw thread back down the arm.
  9. Switch off when thread reaches waste jar. Re-tighten the thread reel-holder hand-nut.
- **INSPECT THE NYLON BRUSH** regularly for accumulated dirt or discolouration from regular contact with unclean records. If the brush becomes obviously worn or damaged it should be replaced. After a few uses, some accumulated discolouration of the main washing brush will be normal and replacement due to discolouration only is not necessary. Periodically, remove the entire brush block by disconnecting the fluid line, loosening the hand screw

on top of the brush block, and slide it off the mounting bar. Wash it with mild dishwashing detergent or hand soap, working the soap well into the bristle pack. Thoroughly rinse it under tap water and dry with paper towelling, **then** rinse it again with distilled water. The brush will probably not get back to sparkling white, that only happens in TV commercials!

## **BRUSH ADJUSTMENT**

Only one adjustment to the brush in the brush block is necessary. As supplied, with the pin at the bottom of the locating slot, the tips of the brush should just barely touch the highest point of turntable mat. Operationally, you can easily position the pin in the slop, while cleaning a disc, to get the exact groove penetration that you want. Remember, records come in all kinds of thickness, and no one setting will do for all.

## **BUFFER THREAD**

The buffer thread is a special weave of three twisted strands, each made up of fine single filaments of white nylon. The thread is 30 gauge and measures about 5 mils (5/1000 inch) in diameter, 50 meters in length (about 165 feet) and is mounted on a spool 1¼" in diameter, 1¾" long and with a 5/16" centre hole. One spool will serve to clean about 4,000 average records. Do not use thread except approved **NYLON** thread. This is available from the authorised distributor or direct from Keith Monks Sound Systems in the UK.

It is very slowly spooled out by a geared motor that turns at about ¼ rpm, and only while the vacuum pump is operating. It is fed up through a separate tube in the vacuum arm and consequently, less than ½" of thread is consumed during the process of cleaning an average record. At the end of the vacuum arm the thread passes out of the brass feeder tube, up the nozzle and back down the arm to the waste jar where it accumulates with the used fluid.

The thread buffers the nozzle above the record surface, protecting both the nozzle and the record, and provides clearance for an efficient vacuum to form, straddling a few grooves on the disc. When the thread does eventually run out, or if it breaks during use, the following instructions outline the procedure to replace or re-thread the spool.

## **REPLACING NYLON BUFFER THREAD**

1. Twist and remove the two deck retaining studs on either side of the angled front panel.
2. Lift the deck by the handle and lock it in place with the attached folding support bracket.
3. Pull any remaining thread in vacuum arm through to the waste jar and empty it.

*Replacing the nylon buffer thread (cont)*

4. Locate the motor driven thread reel holder - on the underside of the main top deck, towards the back - and unscrew the knurled thumbscrew.
5. Remove the plastic disc and put to one side.
6. Remove old thread spool and discard.
7. Fit a new spool of Keith Monks nylon thread: looking at the Machine from the right side, ensure the thread spools out in an anti-clockwise direction – down the left side of the reel.
8. Refit the plastic disc and thumbscrew but leave loose – do not tighten yet.
9. Take one end of the thin plastic rethreading tube and fit it *over* the thin brass feeder tube at the arm head (behind vacuum nozzle).
10. Detach the clear plastic arm tube from vacuum nozzle connector (on top at head of arm).
11. Insert other end of rethreading tube *inside* exposed end of the arm tubing.
12. Ensuring vacuum arm is securely fitted into the arm rest clip on the top deck, activate pump by switching Machine to 'Dry'.
13. Reel out approx 24"/60cm of thread from the reel, pass it under and then up behind reel.
14. Offer thread to small metal funnel extending out from underside of arm base. Thread should now start disappearing up into the arm tubing.
15. Detach rethreading tube accessory from brass feeder tube and arm tubing, and retrieve thread end which should now be protruding from brass feeder tube at arm head.
16. Refit arm tubing to top of vacuum nozzle.
17. Pull through any remaining slack of thread, and offer its end to the vacuum nozzle tip. Suction should draw thread back down arm tubing into the waste fluid jar.
18. Switch Machine to 'Off', retighten the thread reel holder handnut (do not overtighten!), close top deck and refit deck lock studs.

Note: occasionally particles can accumulate inside the brass thread feeder tube especially after prolonged use. If this happens, reel out approx 12"/30cm of thread from the reel, then pull thread through each end of arm in a to-and-fro movement.

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## **BUFFER THREAD FUNCTION ASSURANCE**

Proper operation of the buffer thread is critical to the function of your RCM.

Most problems can be traced to one of two possibilities:

1. The thread accumulates somewhere in the vacuum tubing, due to a crease or accumulated dirt from heavily soiled records. See earlier note about pre-cleaning heavily soiled discs.
2. The vacuum is reduced by leaking tubing seals, corroding tubing connectors, poor seal on the waste jar lid, or incorrect type or configuration of the tubing.

Check all tubing for creases – look especially carefully where the vacuum tubing exits the back of the arm by the counterweight where it bends and disappears down into the arm base.

Also when closing the main top deck, look inside the RCM and check the tubing to the waste jar is not

bent sharply by being pressed on by the buffer thread spooler assembly. The two tubes entering the waste bottle can be lightly tied with a kitchen bag "wire tie", forming a loop about an inch in diameter. This will keep both tubes out of harms way.

Check the narrow diameter plastic feeder tube with the small metal funnel on the end, where the thread enters as it leaves the spool towards the suction arm – the funnel should be slightly above the diameter of the spool to avoid any problems with the buffer thread being fouled at this location.

Examine the lid on the waste jar, and be sure it is firmly and tightly attached. Look at the two connectors on the lid and check that they are air tight and secure. The vacuum is maintained in the waste jar and transmitted up the suction arm. The entire vacuum capability is dependent on the integrity of this part of the system.

Look carefully at the suction arm waste tubing where it meets the nozzle. It should come vertically from the nozzle and arc back to the arm without any creasing or folding. There should be about three inches of tubing visible at this location. The buffer thread should be visible as a single strand as it passes through the tubing with the waste fluid.

When the thread is successfully fed through all the tubing, spool some off and 'rock' it back and forth by hand as it passes through the arm and tubing to the waste bottle. This will confirm if there is anything impeding its passage. Switching on the vacuum should immediately see any excess thread taken up into the arm and on into the waste jar. This is a good indication that the tubing is clear and ready to work properly again.

**CAUTION:** If the waste tubing in the suction arm and on into the waste jar has become encrusted heavily with dirt, it may need to be replaced as it is not practical to clean it. Attempts to do so may scratch the inside of the tubing and only worsen the problem of thread hanging up in the tubing. To prevent this problem happening in the future, pre-cleaning of heavily soiled discs is recommended.

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*Fault Finding and Troubleshooting Guide*

<u>Problem</u>	<u>Possible Cause</u>	<u>Suggested Action</u>
Traces of fluid remain on record after cleaning	Incorrect fluid mixture	- See Cleaning Fluids section
	Insufficient vacuum	- Check waste jar lid for secure fit  - Check tubing for twists, creases, breaks or blockages  - Vacuum tubes blocked by accumulated thread or particles may be easily freed by loosening the thread reel holder, reeling out extra thread, then pulling it through either side of the blockage in a to and fro action. When finished, pull any slack through the system and deposit in the waste jar. Retighten thread reel holder.  - With a vacuum guage (or simple finger test: place finger over tube/inlet to be tested, hold 15 seconds then release and listen for a prominent hissing sound which soon reduces to normal – this indicates vacuum is running correctly) check in the following order :- (remember to refit each part before going on to the next)  - Disconnect tube from waste jar to vacuum pump, and test the tube end. If fails pump is faulty. Contact your Keith Monks distributor. If OK -  - Disconnect other tube from waste jar to arm, and test the connector end on the jar lid. If fails check lid is secured tight. Check lid seal looks intact, check tube seal condition and tube connectors for signs of corrosion. Replace as necessary. If OK -  - Disconnect tubing from top of suction nozzle at arm head. Test tubing. If fails look for twists or blockage in arm tubing. Clear or replace. If OK -  - Reconnect tube and test nozzle tip. If fails check tube seal, connector pin on nozzle secure, nozzle wear. Replace as necessary.
Fluid does not come through brush block when hand pump depressed	Clean fluid jar empty	Refill.
	Hand pump faulty	Check for signs of leaks in casing and valve, loose operation. Replace as necessary.
	Loose or broken tubing	Check tube connection seals, leaks along tubing.
	Blocked fluid hole(s) in block	Take pin and push through each hole to clear obstruction  Review cleaning fluid type (this should not happen with fluids which use pure distilled water – use discOvery™ to get the best clean from your Keith Monks RCM).
Nozzle and thread accumulate particles which redeposit on the record	Thread catching in system	Check thread route for blockages, use to and fro action to pull through (see above). Check for bends in the clear tubing.
	Thread reel holder discs loose	Push home and tighten using knurled thumbscrew
	Electrics fault	Refer to qualified electrician or RCM Service Centre. Check connections to/from switch box.

<u>Problem</u>	<u>Possible Cause</u>	<u>Suggested Action</u>
	Thread motor fault	Check centre motor spindle rotating (mark thread with chalk, switch RCM to 'Dry' and leave for 15 minutes, then come back and check if moved). Refer for servicing or replacement.
	Nozzle tip worn	Replace nozzle (see CARE AND MAINTENANCE section)
Vacuum arm does not move across record, or moves too slowly	Arm drive belt slipping	Remove and clean belt, or replace if visibly worn (also replace anyway as part of routine maintenance every 3 years). Use the hex allen key supplied to loosen the large pulley under the suction arm, remove pulley and old belt, loop new belt around small pulley inside motor box, refit large pulley, ease belt over pulley, tighten hex grub screw.
	Pulleys dirty or loose	Detach drive belt (see above), clean, tighten and refit. Replace if worn.
	Arm bearing problems	Detach belt drive (see above), swing arm across and back, and feel for smooth running. Refer for servicing or replacement.
	Arm motor faulty	Check centre motor spindle rotating (visible when RCM switched to 'Dry'). Refer for servicing or replacement.
Turntable does not rotate	TT boss loose	Check top and side fastenings all secure*. Rotate platter and watch TT motor for signs of spindle or rotor spinning.
	Electrics fault	Refer to qualified electrician or RCM Service Centre. Check connections to/from switch box.
	TT motor faulty	Refer for servicing or replacement.
<p>*Switch off and close deck. Grip the turntable platter with both hands and SLOWLY attempt to rotate it manually. If it slips, remove the mat, remove the three up-facing screws and lift off the platter to reveal the black plastic boss which locks the platter to the turntable motor. Locate the screws mounted on the side of the boss and gently tighten them up (a light lock is all that is necessary - do not overtighten!) Then replace and fasten platter. Try gently rotating the platter again. If it still slips, side-mounted screw threads on the boss have stripped usually from overtightening. Replacement bosses are available.</p>		
Excess fluid build up. Drips to underside of disc. Record label printing fades after cleaning	Too much fluid applied	See 'Washing Tips' section.
	Brush block incorrectly positioned	Adjust using thumbscrew on top of block – line up so edge of bristles sit just short of the label.
	Soiled or worn brush	Clean with soap and warm water and rinse, or replace.
	Incorrect thread	Replace with correct Keith Monks thread from your supplier.
Occasional spiral marks appear on disc after vacuuming	Insufficient fluid applied	Repeat cleaning procedure
	Fluid left on record too long	Partial evaporation and potential re-embedding of particles. Repeat cleaning procedure should rectify, although in extreme cases visible marks may remain.
	Worn nozzle	Replace.
	Hardened thread around suction nozzle tip	After prolonged periods without use, fluid remaining on the thread after cleaning can evaporate and harden. Loosen thread reel holder, reel out a little thread, tighten holder again, pull through to suction nozzle, let vacuum take up slack.

<u>Problem</u>	<u>Possible Cause</u>	<u>Suggested Action</u>
Record not completely wet after brushing	Insufficient fluid	Practise on non-critical discs to discover correct fluid amount.
	Brush block or brush incorrectly positioned	Adjust brush and block - see section Washing A Record.
Arm will not re-thread	Insufficient vacuum	See 'Traces of fluid...' above
	Incorrect procedure used	See 'Replacing Nylon Buffer Thread' section
Excessive vibration and/or noise during operation	Transit protect devices still fitted	See 'Setting Up' section
	Pump isolating mount collapsed or seized	Remove securing fastenings on pump plate. Lift pump and plate. Replace faulty mount(s).
	Loose turntable assembly	See 'Turntable does not rotate' above
	Faulty pump or TT motor	Refer for servicing or replacement.
Machine does not switch on, No functions operative	No mains connection	Double-check power connections each end of cable, and for power cuts from network supplier.
	Mains fuse blown	The mains fuse is now located in the new combined IEC mains inlet with built-in fuse holder at the rear of the RCM. A slide-out drawer below the connector reveals the fuse (note there is additional space in the drawer for a spare fuse - handy for emergencies!)
	Electrical connections	Refer to qualified electrician or RCM Service Centre. Check fuses and connections to/from switch box and IEC mains inlet.

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*New Lid Covers! Retrofit to any Keith Monks 'Mk.II' or 'Mk.V' size RCM since 1972 !*

RCM-Lid-Whi \*New\* Lid cover for RCM / 'Classic White'  
RCM-Lid-Blu \*New\* Lid cover for RCM / 'Midnight Blue'  
RCM-Lid-Oak \*New\* Lid cover for RCM / 'English Oak'

*Brush Section*

RCM-BR1-7 \*New\* Nylon brush for 7" discs  
RCM-BR1-10 \*New\* Nylon brush for 10" discs  
RCM-BR1-12 \*New\* Nylon brush for 12" discs  
RCM-BR1-16 \*New\* Nylon brush for 16" discs  
RCM-BR2 Brush block & pillar assembled, standard 12" version  
RCM-BR3 \*New\* Brush block & pillar assembly – brush holder & fluid distribution adjustable for 7"-10"-12"-16" discs  
RCM-BrSet1 \*New\* Manual brush accessory set comprising brush holder, spray bottle & funnel

*Vacuum Arm Section*

RCM-VA1 Vacuum nozzle for vinyl records  
RCM-VA2 Vacuum arm tubing (thin) [price per m] [*new soft tubing, long life, easy fit*]  
RCM-VA3 Thread feed funnel  
RCM-VA4 Arm rest pillar  
RCM-VA5 Arm rest clip  
RCM-VA6 Vacuum arm top assy  
RCM-VA7 Vacuum arm base bearing assy  
RCM-VA8 Large pulley  
RCM-VA9 Thin brass tube [*vacuum arm thread feed*]  
RCM-VA11 \*New\* Special Vacuum nozzle for shellac 78s etc

*Motor Box Section*

RCM-MB1 Arm drive belt  
RCM-MB2 [*see RCM-VA8 in Vacuum Arm section*]  
RCM-MB3 Small arm drive motor pulley  
RCM-MB4/50 *Arm motor 1 RPM 115/230V 50Hz*  
RCM-MB4/60 *Arm motor 1 RPM 115/230V 60Hz*  
RCM-MB5/115 *MK.III rev arm motor 115V*  
RCM-MB5/230 *MK.III rev arm motor 230V*  
RCM-MB6 *MK.III capacitor for rev arm motor*  
RCM-MB7 Nylon thread / 50m reel  
RCM-MB8 Assy Thread reel holder assembly complete  
RCM-MB9/50 Thread reel-out motor 1/15 RPM 115/230V 50Hz  
RCM-MB9/60 Thread reel-out motor 1/15 RPM 115/230V 60Hz

*Turntable Section*

RCM-TT1 Turntable platter  
RCM-TT2 Turntable mat  
RCM-TT3 Boss for turntable platter  
RCM-TT4/115 TT motor 72 RPM 115V  
RCM-TT4/230 TT motor 80 RPM 230V  
RCM-TT7 Coming soon!

(cont..)

#### *Top Deck Section*

RCM-TD1	Deck handle & fixings <i>[old type 90mm hole centres]</i>
RCM-TD2	Hand pump <i>*now with built in valve !*</i>
RCM-TD3	Deck lock stud
RCM-TD4	Deck lock receptacle
RCM-TD5	Lid joint stay <i>[deck support]</i>
RCM-TD11	Deck handle & fixings <i>[new type, polished silver, 96mm hole centres]</i>
RCM-GA2	Thru connector <i>(clean fluid deck exit)</i>

#### *Switch Box Section*

RCM-SB1	Toggle switch 3-way heavy duty
RCM-SB2	Old type top deck fuseholder, 20mm panel
RCM-SB3/115	Fuse F5A 20mm QB (for 115V models)
RCM-SB3/230	Fuse F3.15A 20mm QB (for 230V models)
RCM-SB5/115	Neon indicator lamp 125V
RCM-SB5/230	Neon indicator lamp 250V
RCM-SB9	Mains suppressor (2 per)

#### *Pump Section*

RCM-PU1a/-1b	Pump mount plate aluminium /pair
RCM-PU2	Shock mount for pump
RCM-PU4	Charles Austen pump head rebuild kit
RCM-PU5	KNF pump head rebuild kit
RCM-PU6	KNF pump tube connector
RCM-PU7/US	Diaphragm pump 110/60
RCM-PU7/JP	Diaphragm pump 110/50
RCM-PU7/EU	Diaphragm pump 230/50
RCM-PU8	Hose connector for pump

#### *General Assembly*

RCM-Assy1	Clean fluid lid with one pre-fitted tube thru connector <i>(glass jar extra)</i>
RCM-Assy2	Waste fluid lid with two pre-fitted tube thru connectors <i>(glass jar extra)</i>
RCM-GA1	Glass jar + lid
RCM-GA2	Tube thru connector <i>[jar lids, top deck]</i>
RCM-GA3	Non return line valve <i>[clean fluid jar, inline handpump]</i>
RCM-GA5	Fluid & vacuum tubing (thick) (price per m - need total 2m per Machine)
RCM-GA6	Integrated IEC mains inlet socket w/ fuseholder
RCM-GA7	Old type IEC mains inlet socket
RCM-GA8/US	Mains lead w/ US style plug
RCM-GA8/UK	Mains lead w/ UK style plug
RCM-GA8/EU	Mains lead w/ Euro style plug
RCM-GA9	Rubber foot w/ flat spacer insert
RCM-GA10	Old perspex lid support bracket & receptacle <i>[pair of each]</i>
RCM-GA11/Imp	Hex allen key (brush, arm adjust) / imperial
RCM-GA11/Met	Hex allen key (brush, arm adjust) / metric
RCM-GA12	Re-threading tube, <i>new single piece</i>
RCM-GA15	Old 'KMAL' badge, front cabinet
RCM-GG1	Instruction manual