

Consumables

Introduction:

Details the operational products needed for a small horological workshop, largely follows the format of the tools list:

Caveats:

- *The list was drawn up to be useful to me* - research time was limited. As with the tools list, if I had the time I'd make some tweaks to this, but overall it is still useful. However, it should not be considered exhaustive or definitive. *Use with caution.*

Structure

- *Item* - name, in alphabetical order. This is spread over two columns to allow sub-classification and elimination of repetition.
- *Priority* - when items should be purchased, uses the same classifications as the tools list:
- *Tbx/Wkshp* - identifies where the consumables are likely to be needed and follows the tools list conventions.
- *Notes* - contains basic information about the item. Such as: a very brief description, the way it tends to be used, what makes for a good (or bad) example, etc.
- *Budget* - if an item needs to be bought, roughly what will need to be spent.
- *Purchasing advice* - information as to where an item can be bought, which brands are appropriate, and any other specific information.

Item	Priority	Where	Notes	Setup Budget	Purchasing advice
Abrasive Paper	JIT	Wkshp	3M aluminium oxide, polyester backing. imperial micro finishing film, available in an assorted pack. Do not get the self adhesive pack. 40,30,20 and 9 micron surfaces. Then the lapping film takes over, 9, 12, 3 and 1 micron. When it arrives, sort it out into the different grades and keep separate, otherwise you get cross contamination.	£40	Cousins and Walsh do assorted packs.
Acid Free Paper	Base	Tbx	General purpose short-term wrapping, spreading on surfaces for disassembly, even cleaning things. (Use instead of newspaper). If you can find it on a roll, it is easier to carry.	£15	Buy the cheap stuff, buy in a ream, big stationers or any packaging materials company.
Binding Wire	Base	Wkshp	Soft iron wire for use in hardening and tempering small items, tying up items for silver soldering and so on.	£3	Sold for floristry and flower arranging, available from various internet suppliers.
Boxwood	Lux	Wkshp	Used for making boxwood chucks to hold wheels whilst boring out concentric centres.	£25	Source from specialist timber suppliers, e.g. from the internet. Unfortunately for horological uses only the largest cross-sections of boxwood are useful. Fortunately pieces of soft plastic (e.g. nylon) can be substituted. Fine-grained (e.g. birchwood) plywood can also be used.
Brass	↓	↓	Over time aim to build up a stock-cabinet of scrap, these stocks should get you going.	↓	Ian Coot for short lengths, but be careful it is not cheaper to buy in long lengths from an wholesale metal supplier e.g. Smith's metals.
<i>Wire</i>	Base	Tbx	Hard drawn brass wire, comes in 6 inch lengths - need a stock of sizes (note that the useful sizes get used up) between 0.5 and 1.6 ... the sizes don't seem to relate directly to mm.	£30	Can get individual sizes from HS Walsh, but if you can, buy at auctions, ebay (search for watchmaker's brass wire). Another alternative is to use the old gongs from westminster striking clocks!
<i>Cast</i>	JIT	Wkshp	Colour of cast brass is yellower, matches antique clocks better than modern brasses. Purchase as and when needed. The ideal is a 'pure' 70/30 mix, but even mixes with some contaminants in will provide better coloration than modern machine brass.	£150	Needs a specialist supplier e.g. Priory Castings, Harting Foundries.
<i>CZ108</i>	Base	Wkshp	Doesn't have lead in it, so is both malleable and springy once hammer hardened. Keep a small piece, in stock 0.8mm for Fly-springs. Otherwise JIT.	£20	Smiths Metals or local metal supplier if you can find one.
<i>CZ120</i>	Base	Wkshp	Standard machinable brass, keep a small stock of sizes from 1mm to 3.5mm for wheels. Otherwise, buy as needed.	£30	Smiths Metals or local metal supplier.
<i>CZ131 Bar</i>	Base	Wkshp	Keep a short stick of each 6, 9, 12, 18mm in stock, otherwise buy as needed.	£30	Smiths Metals or local metal supplier.
Brazing Rod	JIT	Wkshp	Gives brass joint a strong bond without the grey line given by solder. Look for one with no cadmium in it, and not flux coated.	£10	Good DIY or model engineering stores.
Brightening Solution	JIT	Wkshp	if you must brighten brass, then do *not* use Horolene, it corrodes! Use Elma Cleaner.	£40	Elma Reinigungs-losung-wf.
Bushing Wire	Base	Wkshp	Keep 2.5, 3, 3.5, 4mm in stock, otherwise buy in as needed, as the smaller ones don't get used very often.	£32	c £8 per set, HS Walsh.
Candle	Base	Tbx	Small piece of candle for easing rails, runners, and hinges on clock cases.	£0	Hardware store if you can't find some at home.
Chain	JIT	Wkshp	To hang weights from.		Buy when needed, there are too many variables to hold a stock of this. Meadows and Passmore supply.
Cleaning Fluids	↓	↓	↓	↓	↓
<i>Acetone</i>	JIT	Wkshp	A more aggressive solvent than white spirit, useful for heavy greasy deposits and as a medium for some conservation grade adhesives, e.g. Paraloid B72.	£2	Can be bought online in larger quantities, where it is sold as a professional nail-polish remover. Alternatively acetone-based nail polish removers can be found in most supermarkets at around £1.50 for a 250ml bottle, although this will have a dye in it.
<i>Brightening Solution</i>	JIT	Wkshp	if you must brighten brass, then do *not* use Horolene, it corrodes! Use Elma cleaner.	£40	Elma Reinigungs-losung-wf.
<i>Distilled Water</i>	Base	Wkshp	General cleaning and flushing out.	£5	Halfords or similar - battery topping up water.
<i>IMS</i>	JIT	Wkshp	Industrial methalated spirits - for general cleaning - does not have the purple die in it that retail meths has.	£30	(Note you need to register with customs and excise before you can buy this, simple process) then there are lots of suppliers, e.g. http://www.chemicals.co.uk/denatured-alcohol-ims
<i>L&R #3 Watch Rinsing Fluid</i>	JIT	Wkshp	Cleaning solution which doesn't leave residue, so can be worth using for the final rinse stage of a cleaning process.	£35	HS Walsh Ref: HF 602.

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<i>L&R #4 Watch Rinsing Solution</i>	CCJIT	Wkshp	If you have a watch cleaning machine and are brightening carriage clock parts, then this is the solution to use.	£35	HS Walsh Ref: HF604.
<i>White Spirit</i>	Base	Tbx	3 stage cleaning process using white spirit: 1 to clean loose dirt and grease off. 2 to get it pretty clean. 3 to rinse. ... so keep 3 separate bottles, and will need a few litres on hand.	£10	For 1) and 2) any cheap white spirit from a DIY store. For 3) L&R IMS watch rinsing solution or more refined white spirit.
Cloth	Base	Tbx	Supply of clean absorbent rags. Useful for all sorts of things, cleaning, polishing, packing etc. MUST be lint free. Keep a small box.	£0	Selvyt cloth is ideal, but good quality lint free cotton will do, shirts, sheets etc.
Cotton Tape	Base	Tbx	General purpose, tying back doors during transport, cleaning holes, tying keys. Go for 12 or 16mm as this is the most useful. Keep several metres in stock.	£10	Try Preservation Equipment Ltd. They do 6, 10 and 16 mm tapes.
Cork	↓	↓	↓	↓	↓
<i>Block</i>	Base	Wkshp	Decorators cork block, useful both as a soft rest/holder when working on items and used slightly damp with pumice powder to obtain an even matt surface. Need to keep one or two in stock.	£4	From any decorator's merchant or DIY store.
<i>Tile</i>	Base	Wkshp	Thin cork tile for holding items on when finishing, filing etc.	£10	DIY Stores. Buy as small a quantity as you can.
<i>Wine</i>	Base	Tbx	(From wine bottle) used for holding small components, filing things flat, removing burrs etc.	£0	N/A.
Cream of Tartar	JIT	Wkshp	Use as mild abrasive for cleaning silvered dials and for prepping them for re-silvering. A small tub lasts a very long time as you only use it a teaspoon at a time.	£3	Supermarket.
Day Book	Base	Tbx	Hard-bound notebook, ideally blank pages for recording what has been done to what, how, when and with what. Loose leaf folders do not work well for this.	£7	Worth buying reasonable quality as they last.
Detergents/Surficants	↓	↓	↓	↓	↓
<i>Surecare Sensitive</i>	JIT	Wkshp	Easily available mild detergent that is known to have a low salt content, can be used in place of more specialist conservation products.	£4	Large supermarkets, buy by the Litre.
<i>Symperonic A7</i>	JIT	Wkshp	Specialist conservation detergent, mix to 15% by volume. Useful for taking the wax off cases etc. Small quantities only needed.	£10	Conservation Resources Ltd.
<i>Triton X</i>	JIT	Wkshp	Specialist conservation non-ionic surfactant (wetting agent) for sensitive cleaning of hard materials e.g. dials. Small quantities only needed.	£30	Specialist laboratory and dental suppliers.
<i>Washing up liquid</i>	Base	Wkshp	For general cleaning around the workshop. Note that most washing up liquids have both salt and 'shine' products in them, and so should not be used where conservation is a requirement.	£3	Any supermarket, buy by the litre.
<i>Vulpex Spirit Soap</i>	JIT	Wkshp	Specialist non-corrosive, non-foaming, germicidal cleaning agent, soluble in both water and white spirits. Suitable for use on iron and other metals.	£10	Conservation Resources Ltd.
Diamond Powder/Polish	CCJIT	Wkshp	Paste fine-finishing carriage clocks, chronometers etc. aka diamantine, comes in 3 grades.	£8	Cousins.
Eraser	Base	Tbx	For correcting pencil.	£1	Stationers.
Film, Polyester	Base	Wkshp	Small sheet(s) of clear plastic film, e.g. overhead projector film, or florist's wrapping paper. Used for filing projections flat on a surface that needs to be protected - for instance when filing a bushing flat.	£0	Stationers or rooting through rubbish bins.
Fire Extinguisher	Base	Wkshp	Needs to be suitable for oil and electricity. Carbon dioxide as powder would make a crisis into a disaster - the powder from these gets everywhere and kills clocks.	£110	Buy the largest you can manage. Budget based on a 5kg CO2 extinguisher from Screwfix.
First Aid Kit	Base	Wkshp	A requirement for workshops, without this, insurance may be void.	£20	Look for one that is BS-8599-1 compliant. Something like a 'small workplace kit' from St John's
Flux	↓	↓	↓	↓	↓
<i>Hard Solder</i>	Base	Wkshp	High temperature soldering flux, e.g. Tenacity flux (TF272).	£15	HS Walsh or other clock/jewellery suppliers.

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<i>Soft Solder</i>	Base	Wkshp	Fry's or similar.	£15	From any DIY or Plumbing store.
Gas Canister	Base	Wkshp	Propane tank to suit the burner purchased, between 5kg and 15kg dependant on space. Larger sizes provide cheaper gas.	£40	Refills from local camp shop, large hardware stores, some garages. Canisters can also be sourced here, but it may be cheaper to source these from ebay, gumtree or car-boot sales (new c£60, second hand c£15)
Glass-Cleaner	Base	Tbx	For removing fingerprints and grime from clock dials - use carefully as it is usually acidic.	£3	Any Supermarket.
Gloves	↓	↓	↓	↓	↓
<i>For handling objects</i>	Base	Tbx	Disposable nitrile gloves. Don't buy powdered gloves - almost all rubber gloves are as the powder will get into pivots. NEVER use cotton gloves, some people expect them, but they leave fibres in the works.	£4	Expensive ones in jazzy colours at c £11 per box are no better than the cheap ones at £4 per box from Amazon or any number of internet suppliers.
<i>For solvents</i>	Base	Tbx	Green nitrile gauntlets, as robust as possible (not Marigold!). They do wear out so it is worth getting several pairs.	£10	Solvex. brand are between £2-5 per pair. Screwfix do 10 pairs for c£20.
<i>For heat</i>	Base	Tbx	Good leather gardening gloves. Aim for those that fit.	£15	Try Garden Centres, find a brand you like and live with them.
Graphite Stick	JIT	Tbx	As 'B' as possible, can be used as a diagnostic to see if a particular bearing is sticking... plus for large bearings.	£3	Art Shop, sold as a drawing tool.
Glue	↓	↓	↓	↓	↓
<i>Epoxy</i>	JIT	Wkshp	24 hour one. Better to get a specialist one as the consumer brands tend to yellow. e.g. 'the West System'	£25	Axminster Tools.
<i>HMG Glue</i>	JIT	Wkshp	Commercially available Paraloid B72 glue in a tube, sensible way of purchasing it if the need is only occasional or for small repairs.	£3	Restoration Supplies or similar.
<i>Loctite Strong</i>	Base	Tbx	The strong stuff (Threadlocker 243, or 603-oil resistant) use where a screw is dodgy but doesn't quite need re-cutting. Lasts for a long time, so can buy a reasonable sized bottle and keep it.	£6	Amazon or similar.
<i>Loctite weak</i>	Base	Tbx	222 grade, gap filling for stuff you want to remove.	£6	Internet, Amazon or similar.
<i>Superglue</i>	Base	Wkshp	"Dead useful" .. for glueing stuff together. But be aware that it off-gasses, and these gasses are both poisonous and corrosive.	£1	Buy a card of tubes from a pound shop.
<i>Spray mount</i>	JIT	Wkshp	General use. e.g, For attaching print-outs of photographs to card so that screws, pins etc can be placed in holes and subsequently returned to the place they came from.	£7	Stationers.
<i>Titebond Liquid Hide</i>	Base	Tbx	Reversible, in a liquid form for gluing mouldings, veneer, filling in small holes in cases etc.	£9	e.g. from Axminster Tools or from internet search.
Gut-line	↓	↓	Use natural gut-line, synthetics seem to stretch and/or are much harsher so create damage.	↓	↓
<i>0.8mm</i>	JIT	Wkshp	For vienna regulators, use 'natural gut music strings'.	£10	Order as needed. Bow Brand International.
<i>1mm</i>	JIT	Wkshp	For vienna regulators, use 'natural gut music strings'.	£10	Order as needed from Bow Brand International.
<i>1.45 mm</i>	Base	Wkshp	For long-case clocks, use 'unvarnished harp strings'.	£51	12ft x 1.45 mm harp strings, Bow Brand International. Buy 2 or 3 and re-order when used.
Clock Keys	JIT	Wkshp	Keep 1 complete set in stock, sell them to customers when they need them and then replace them as they are used. If you can, stamp or engrave them with your business name.	£100	Depends on the services offered, philosophy, and budget.
Clock Springs	JIT	Wkshp	Size for the clock repair, but avoid stainless steel ones, they tend to be too strong.	£50	Trifix from Cousins work well - the .25 ones are of good quality and provide appropriately low power output. (Don't use for a fusee barrel).
Grit-o-Cobs	Base	Wkshp	For drying components after cleaning - these can get stuck in smaller components, so the medium size is recommended. It is also suggested that items are chalk dusted after being immersed in grit-o-cobs in case any acidic residues are left.	£5	HS Walsh sell either in £1kg or 25kg bags at about 10 times the price (but spell it 'Grit o Kobs')
Jewels	JIT	Wkshp	Big problem when coming to old clocks, need to buy old stock, but pointless holding small quantities as the chances of them fitting a clock on the bench are very low, so don't hold stock unless available en mass and there is time to sort it.	£50	Individually on ebay or through contacts in the trade.

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Jiffy Foam	JIT	Tbx	Practical conservation alternative to bubble wrap. Doesn't have bubbles that a) go down over time when under pressure, and b) can give off acid gas.	£10	Many internet suppliers, in various thicknesses.
Labels, Tie on	Base	Tbx	c 30x50 mm strung tags - look for good strong craft card, long string that is not going to fray.	£15	e.g. Merit Strung.
Lacquer	JIT	Wkshp	Commercial silver lacquer (cellulose base) or a shellac based one to match the existing finishes.	£10	Ironmongers or specialist clock repair suppliers.
Lubricants	↓	↓	↓	↓	↓
<i>Baby Oil</i>	Lux	Wkshp	Use as a lubricant for oil stones. A pure oil of the perfect consistency for this job. One, that does not degrade or smell, and which is considerably cheaper than 'specialist' items. It can also be used to clean oily deposits from hands!	£2	High street chemists or supermarket.
<i>Clock Oil</i>	Base	Tbx	3 different kinds of oils: <ul style="list-style-type: none"> • Natural. • Moebius D series, are mineral (c £25) for clocks need grades 3, 4 and 5. • Blue bottle, synthetic oil (c£70). Note these were developed for jewel bearings, probably not worth using for clocks as they'll get dirty long before the oil starts to degrade and NEVER, EVER, dip into the bottle, ALWAYS use an oil stand. 	£75	HS Walsh, or good clock suppliers.
<i>Cutting compound</i>	Base	Wkshp	Use when cutting threads smoother cleaner threads and saves taps.	£18	Rocol RTD Metal cutting compound, in 500g cans available from Amazon and many other internet stores.
<i>Lathe</i>	Base	Wkshp	Whatever is needed for the lathe.	£15	General oil from auto-factors.
<i>Mainspring</i>	Base	Wkshp	Chemodex CDL (Chain & Drive Lubricant).	£5	Buy one can, that will last many years. Available directly from the manufacturer, at www.chemodex.co.uk .
<i>Paraffin</i>	Base	Wkshp	Used as cutting lubricant to produce fine finishes and when drilling small holes.	£7	Hardware store.
<i>Turpentine (Spirits of)</i>	Lux	Wkshp	Mix 50:50 by volume with Paraffin to make a superior cutting lubricant. A requirement when engraving brass.	£7	Available from Decorators or Artists suppliers. Generally it is the same product, but more expensive in the latter. Look for 'genuine turpentine', 'gum turpentine', 'pure turpentine' (or similar phrasing). Do not buy turps substitute, this is white spirits.
Marking Pen	Base	Tbx	For assistance when filing and fitting objects into holes etc shows where contact is made (non permanent type for preference).	£2	Any Stationer's
Masking Tape	Base	Tbx	For general light sticking. Go for a low-tack version e.g. Frog-tape.	£4	Any DIY shop, but avoid the very cheap items, the glue can come off the tape.
Matches	Start	Tbx	For burning ends of gut lines, melting wax and so forth.	£1	Small box, ideally in tin box to keep from damp.
Microcrystalline Wax	Base	Tbx	Stable whereas Beeswax yellows and goes sticky. Use as a lubricant for sticky calendar wheels for polishing casework etc. Tip! The top will go fill with dirt, threads etc but it can be cleaned. Put the wax in a pan of water, bring to boil, the wax will melt and float to the top, Leave over night. All the steel/brass filings will have sunk to the bottom)	£15	e.g Renaissance Wax budget price is for a small c200ml container. Alternative strategies are to buy a decorator's pack and split between several or buy in solid form and soften it with white spirits.
Oilstone Powder	JIT	Wkshp	For fine-finishing brass, mix with oil and use on a glass sheet.	£8	Difficult to find occasionally different grades of oilstone powder do come up. Axminster Tools sell Liberion Rottenstone powder but this is <i>not</i> the same, however a coarse diamantene powder (circa micron) can be used.
Paper Towelling	Base	Wkshp	<i>Not</i> for use on clocks, but has many uses for cleaning and drying around the workshop.	£3	Any supermarket or trade suppliers.
Peg Wood	Base	Tbx	Close grained, soft wood, for cleaning out pivot holes etc. (Google reckons it should be Dogwood.) Something like beech is too coarse, bamboo is too coarse. Tip! Can be used to find details of an unknown thread - sharpen pegwood and screw into the hole - lubricating with graphite as necessary - establishes (broadly) the size and pitch of the thread.	£0	Dog-wood from the garden makes excellent peg wood! (cut and stick in the airing cupboard for 3 months). Otherwise buy from Cousins - Avoid the stuff made from bamboo which a lot of places sell.
Pencil(s)	Base	Tbx	Real wooden pencil, as the lead doesn't run out. Look for good quality wood as generally the lead inside will be robust. B is a good compromise as that will mark brass.	£1	Tombo, Staedler,

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Photographic Background Pa	Base	Tbx	17% grey, an industry standard tone. For taking pictures of parts of clocks - forms the background - if you are doing condition reports.	£62	Ebay, Amazon etc. Search for Colorama 'storm grey' a lot cheaper to buy it in 2.72 metres and saw it into 3 90cm strips, this will last for a long long time.
Pickle (Safety)	JIT	Wkshp	For cleaning materials prior to silvering.		Buy when needed.
Plastic Bags	Base	Wkshp	Mini-grip bags 8x12cm for bagging components during repairs and to hand them back to clients.	£10	Available all over the internet at about £3.50 for 100.
Plastazote	JIT	Wkshp	Inert closed cell nitrogen expanded foam for packing and in the workshop for holding screws and small components. Typically will use the 20mm, 6mm and 3 mm.	£20	Available from many internet suppliers, a search for 'plastazote sheet' brings up options. Circa £15-25 per sheet, so make this project specific, and re-cycle rather than buying this speculatively.
Pith Wood	Base	Tbx	(From the inside of an elder tree) used for soaking up oil, an essential for the workshop.	£7	Small bundle from Walsh's or Cousins.
Pumice Powder	JIT	Wkshp	Used for putting a surface on pendulums, and other such surfaces.	£5	Walsh's or Cousins, available in 1kg or 25kg quantities. The smaller will last years.
Retouch Crayons	Base	Tbx	Used for covering up minor scratches in cases etc.	£18	Liberon by preference, available in small sets from specialist stores on the internet.
Rodico	Base	Tbx	Putty type stuff for removing oil and finger-prints from small components.	£10	Cousins, HS Walsh etc.
Rope	JIT	Wkshp	30 hour rope, 4 or 5 mm as appropriate for the clock.	£15	HS Walsh, Cousins or similar.
Salt	JIT	Wkshp	Used in the re-silvering process, ordinary table salt will do.	£1	Supermarket.
Sealing Wax (Black)	JIT	Wkshp	For blacking in the numerals on dials etc.	£10	Art suppliers, or internet (e.g. Amazon).
Silvering Powder	JIT	Wkshp	For dials, chapter rings etc. NOTE. This needs to be kept in the dark as it is light sensitive.	£40	Time Restored. 'FP11'. Buy the first time you need it as it does have a shelf life.
Solder	↓	↓	↓	↓	↓
<i>Hard</i>	Base	Wkshp	For robust joints, where the temperature is not going to cause damage.	£18	Easy flow rods, c£6 each, HS Walsh.
<i>Soft</i>	Base	Wkshp	General fixing, collets etc. Use standard lead-free plumber's solder.	£10	B&Q or similar.
Spill Kit	Base	Wkshp	A sensible precaution once quantities of solvents are being stored.	£11	Screwfix offer a 15 litre kit, more than enough for most horological spills.
Steel Stock	↓	↓	As for brass, over time a scrap stock will be built up, the list here is a start-up kit and should be seen as minimum stock levels.	↓	↓
<i>Blued Pivot Steel</i>	Base	Tbx	For replacing pivots and making spade drills in small sizes. Comes in 6 inch lengths - need a stock of sizes (note that the useful sizes get used up) between 0.5 and 1.6 ... the sizes don't seem to relate directly to mm.	£25	Comes in watch auctions in blue tubes, if you see it buy it, it is like gold dust. HS Walsh alternative.
<i>EN8</i>	Base	Wkshp	For making pinions, arbors etc. Comes in foot-long lengths, need a stick of each of 6, 9, 12, 18 mm.	£35	Ian Coot for short lengths, but be careful it is not cheaper to buy in long lengths from an wholesale metal supplier e.g. Smith's metals.
<i>Mild Steel</i>	JIT	Wkshp	Softer than EN8 or Silver steel, doesn't harden. Buy for specific projects.	£0	Ebay, or identify local metal supplier who will provide small quantities as this will save on postage.
<i>Silver Steel</i>	JIT	Wkshp	For making ad-hoc tools, hardens well fly-cutters, scribes, etc. A stick each of 6 and 3 mm will get you going	£10	Ebay, or local metal suppliers.
<i>Spring Steel</i>	Base	Wkshp	For facing pallets, making hard shims etc. French Clock mainspring is ideal. Note modern spring steel will not solder.	£20	Horological auction or second hand store - scrap clocks.
<i>Tool Steel</i>	Base	Wkshp	For making lathe tools, both standard and non-standard shapes.	£20	Internet/ ebay.
Steel Wool	Base	Tbx	Grade 0000, have to buy a good brand as the cheaper stuff will have bigger pieces in it. Must be oil free, cheaper stuff is not and you will end up contaminating whatever you are trying to clean. Keep it inside a plastic box as it is very inflammable. Health and safety warning, always cut this scissors, never tear it off with your hands as it can rip your fingers open.	£10	Liberon, or if you can find it Trollul is better - buy from local hardware store or from internet.
Suspension Spring	Base	Wkshp	For hanging pendulums. Need a range of springs, 0.08mm to 0.15mm in standard width, (3 or 4 steps), plus some french suspension springs. Keep a small stock and re-order when used.	£20	Meadows and Passmore or Time Restored.ltd.
Tannic Acid	JIT	Wkshp	For treating rusty ironwork.	£0	Can be obtained from tea-bag left to stew!

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Taper Pins	Base	Wkshp	Look for universal pins (Steel), which come in 3 sizes, fine, medium, large. Get all 3, 50 each as a minimum. Secret for all taper pins, is that you need to draw file them before fitting.	£50	Time Restored Ltd, budget is for 500.
				£1,874	