



## Training Guide

Retail Jeweller UK  
**JEWELLERY**  
— AWARDS —  
SUPPLIER OF THE YEAR  
**WINNER**



Awards 2015  
**WINNER**  
SERVICE SUPPLIER



# Maker-Mends Ltd

*Service Provider for the World's  
Jewellery and Watch Industry*



This training guide contains a small selection of the information we have about jewellery on our website.

Take a look at the Education section at [www.makermends.com](http://www.makermends.com) to view more information and watch videos of different procedures such as ring sizing.

[www.makermends.com](http://www.makermends.com)

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# Bespoke Service

TEL: 01268 564 651

[bespoke@makermends.com](mailto:bespoke@makermends.com)

## Beautiful Handmade Bespoke Jewellery

We can create any piece of jewellery from a sketch or image. We provide a dedicated support team for all design work and we provide a free of charge estimate which also includes the production time.

We can re-create EXACTLY to the original design any worn or damaged jewellery. We can match a lost earring or cufflink. We undertake insurance replacement work.

Our waxes are skillfully hand carved to match the original design.

We can re-make stock items with adjustments to suit your customers requirements.

We can produce the piece in any metal including;

9ct gold - yellow, red or white,  
14ct gold - yellow, red or white, 18ct gold - yellow, red or white,  
22ct gold – yellow, Platinum, Silver and Palladium.

Every piece is finished to an exceptionally high quality. We pride ourselves on the fineness of our setting and the attention to detail in our very high standard of polishing and plating.

We can supply and cut any precious or unusual gemstone.

We can supply stones, including certified diamonds, on approbation for your customers approval before purchase.



## **Wedding bands to fit any design of engagement ring.**

We can help with the design of the wedding band if necessary.

We can send CAD images before we make the piece.

Our 3D Scanner produces a detailed and precise scan of an item and creates an exact replica of the piece from all angles as a 3D image. We use this technology in our production of fitted wedding bands. We can scan an engagement ring and return it to the owner immediately whilst using the scanned image to create an exactly fitted wedding band to their specifications.

Our 3D Printer accepts the images from the 3D scanner and CAD images and uses these images to “print” out an exact copy in resin.

This resin is used in the process to cast the item which we hand finish to the highest specification.

We can produce the piece in any metal including;

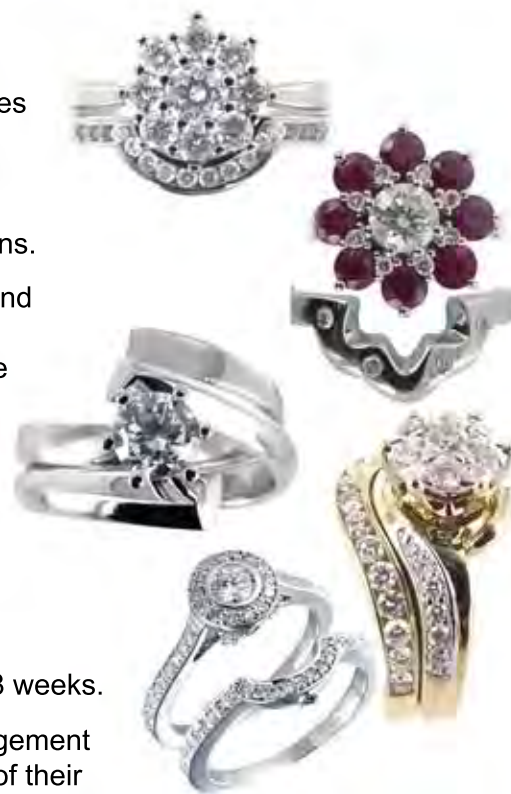
9ct gold - yellow, red or white,

14ct gold - yellow, red or white, 18ct gold - yellow, red or white,

22ct gold – yellow, Platinum, Silver and Palladium.

We provide a dedicated support team for all design work and we provide a free of charge estimate which also includes the production time, approx. 6-8 weeks.

This is a great service you can offer your customers. When selling an engagement ring inform them that a wedding band can be made to fit exactly the shape of their engagement ring.



# Bespoke Process

Replicating earrings to improve the setting.



The poor quality of the original setting meant the rubies and diamonds were loose and in danger of falling out.



The style of the setting meant it was more efficient to make better mounts rather than rebuild the original settings. The original earrings were used as guides to hand carve a replica in wax.



The finished wax was used in the process to cast new earrings in 18ct white gold. The cast earrings were hand finished and polished.

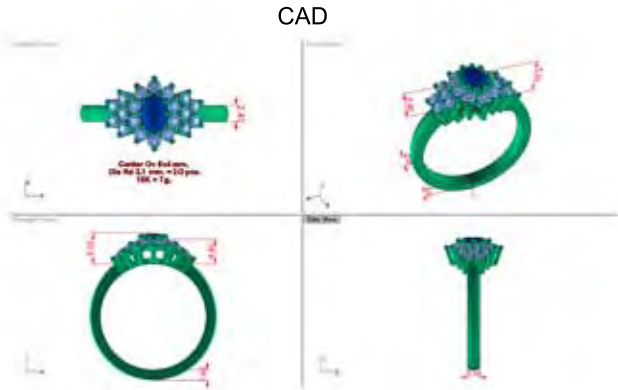


The original stones were reset and the earrings were polished and then rhodium plated to enhance the white gold finish.

## CAD (computer aided design)

We can supply CAD images prior to making any item. This can show the item from every angle and can be rendered to look like an actual piece of jewellery. Any adjustments can be made before production.

Once the CAD image has been approved by your client a 3d printing machine prints a resin of the design. This **print resin** is used to make an acrylic mould into which wax is injected. The wax is then used in the lost wax process to cast the item in the chosen metal.





# Types of Settings

## Setting Techniques

Stones are secured into their settings by first cutting a seat in which the stone rests and then covering the stone from above with some additional metal. This traps the stone so that it cannot move down or up.

The setter (the person who sets stones) has several options on how to secure a stone into a mounting.

The most common settings are Claw Setting or Grain Set other styles are Rub Over, Pave, Channel, Illusion, Star Setting, Invisible Setting, Suspension Setting and Countersunk.

Claw



Grain



Rubover



Channel



Pave



Illusion



Star Setting



Invisible or  
Princessa Setting



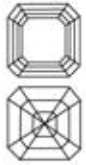
Suspension Setting



Counter Sunk



# Stone Cuts



Asscher



Baguette



Cabouchon



Cushion Cut



Emerald/  
Octagonal



Heart



Marquise



Old Cut



Oval



Pear



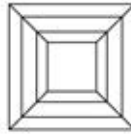
Princess



Rose Cut



Round Brilliant



Square



Tapered Baguette



Trillion



# Diamond and Gemstone Supply

We hold a variety of diamonds in stock. As well as the more popular cuts we also have old cuts, 8 cuts, tapered baguettes and princess cuts. We also stock coloured diamonds.

We can supply Certificated Diamonds.

We hold stock of the more popular gemstones including sapphire, emerald, ruby, c.z., onyx, garnet, pearls, amethyst, citrine, smokey quartz, aquamarine, peridot, tanzanite and topaz.

We can source and supply unusual stones and cuts.

We can recut Old Cut diamonds into Brilliant Cut.

We can re-polish all stones, including diamonds, to remove wear, chips and scratches.

We can replace any missing stones to nearest matching.

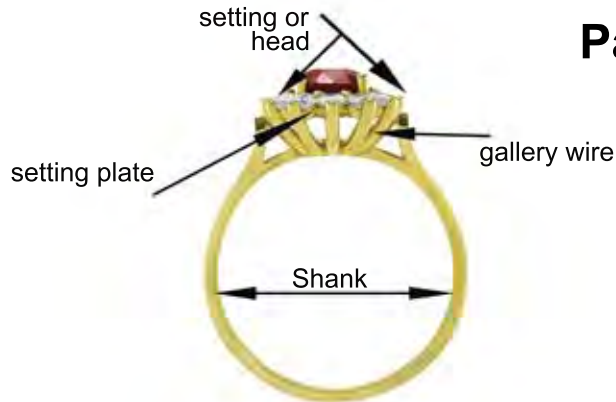
When necessary, we can supply diamonds and gemstones on approbation for your customers to view before purchase.

Tanzanite Repolish

Before



After



## Parts of a Ring



# Jewellery Repair Service -

## RINGS

**Sizing** - up or down, we can go up more than 5 sizes. Most plain wedding bands can be sized to any size.

However the following metals are restricted by the finger size required, style of ring, design of setting.

Titanium - cannot be sized, can be engraved.

Tungsten - cannot be sized or engraved.

Stainless Steel- may possibly be able to size up 1 size if plain band, can be engraved.

Argentium - Can be sized and can be engraved.

Platinum - Can be sized and can be engraved.

Palladium - Can be sized although joins may show and can be engraved.

We don't size rolled edge rings.

**Setting** - all styles available claw, rub over, grain, pave, invisible, channel, illusion, counter sunk, star setting, suspension/tension.

We supply complete new claws and re-set stones.

We can supply new hallmarked shanks.

We can rebuild all parts of a ring to its original condition.

If the hallmark is damaged or worn, we can send to Assay Office to be re-hallmarked.

Sizing Balls - for enlarged finger joints.

Re-plate - we silver plate, re-gild, ruthenium plate, rhodium plate, black rhodium plate, hard silver plate, hard gold plate and palladium plate.

We can supply replacements for missing stones to nearest matching.

We can rebuild worn settings.

Gemstone Re-polish -all stones including diamonds can be re-polished to remove any wear, chips or scratches

We polish and restore the finish - from plain finish to diamond cut, sand blast, matte, satin, engraved patterns or plating.

## CHAINS/BRACELETS/ANKLETS

Repairs/Soldering - we repair hollow or solid chains using an alloy of a metal the same quality as the chain.

Extensions/Reductions -we can extend most chains (silver, gold- yellow and white, 9ct, 18ct and platinum) either with the exact chain or a very close match.

Findings - we can repair or supply bolt rings, triggers clasp, double trigger clasps, lobster clasps, box clasps, barrel clasps. jump rings, safety chains, padlocks, hasps, T bars, end caps, hallmark tags, pendant bails, round end caps, carabiner clasps, hook and eye/S clasps.

Jointed Links -(as used in tennis bracelets) we can repair and replace sections of the joint or the whole joint.

Gate Bracelets - we can remove and replace worn gates and/or the rivet.

## BANGLES

Slave Bangles - we repair, extend, shorten and match most patterns.

Hinged Bangles -we can repair or replace the clasp or hinge which join the two ends of the bangle. We can make a new spring if this is damaged.

Stone Set - we can replace missing stones to nearest matching, we can supply diamonds and gemstones on approbation for your customers to approve before purchase. We can rebuild worn settings.

Torque Bangles - we repair, extend, shorten and match patterns.

Hollow Bangles - we can remove small dents.

Clasps - we can repair or supply tongue & box clasps, safety chains and figure 8 clasps.

## QUALITY CONTROL DEPARTMENT

Before being returned to the branch each item is checked to make sure that the work has been completed as described on the repair instructions and that the finish is to the highest standard possible.

# Jewellery Repair Service cont. -

## EARRINGS

Eyelets - we can rebuild or replace most styles.  
Stems - these can either be repaired or replaced.  
Screw Threads - we can replace the screw thread or the screw on butterfly if worn or broken off.  
Screw on fittings - can be added to any stud earring for extra security.  
Clip on Earrings - we can tighten or replace loose clips.  
Creole Joints - we can replace or repair the hinge, clip, the rivets or the earwire.  
Stone Supply - we can replace missing stones to nearest matching,  
Rebuild - we can replace or rebuild worn or missing parts from earrings.

## STRINGING

Pearls/Beads - we can re-string pearls/beads and we replace missing pearls/beads with the nearest matching available.  
Clasps - we repair, replace or supply most kinds of clasps.  
Knotted Stringing or Plain Stringing available on silk or nylon.

## CUFFLINKS

Front Plates - we can resolder or replace most designs. We can hand or machine engrave most plain plates.  
Swivel Fitting - when the spring loses its tension we replace the whole section, we can replace the rivet that holds the rotating arm.  
Chain Link - worn eyelets and chains can be rebuilt or replaced.  
Torpedo and Button - we can resolder or rebuild as required.

## BROOCHES

Catches - we can replace roller catches and revolving catches when appropriate.  
Pins and Hinges - we can replace or repair as appropriate.  
We can use various methods to repair or attach a safety chain.

Where necessary we can provide free of charge estimates before work is started.

For all gemstone set items we offer Gemstone Re-polish - all stones including diamonds can be re-polished to remove any wear, chips or scratches. We can supply replacements for missing stones to nearest matching.

We can polish gold, silver, palladium, platinum and titanium.

We can apply various finishes to metals including sandblasting, satin, matte, diamond cut and high polish.

We can also hard gold and silver plate as well as re-gilding, rhodium and flash silver plating.

High Polish



Satin Finish



Sandblast Finish



Diamond Cut Finish



Matte Finish



# Taking in and selling the Repair

- Firstly discuss with the customer the general condition of the piece including the age, value, type of metal and stones.
- A quick look with an eyeglass can reveal quite a lot and takes very little time and will convey a level of professionalism.
- Try and determine the cause of the problem. For example a stone has fallen out - why has this happened?  
Check the claws.
- Discuss your observations with your customer. Forewarning your customer of the general condition will give them a more realistic expectation of the cost and the work that may be required to solve the problem.
- Write your observations on the repair docket and give a good description of the item. A small sketch can help.
- Any loose items should be securely taped to the repair docket and a note made on the docket.
- Get your customer to read through the repair docket and sign to show acceptance of the contents
- Use the price list where appropriate to quote for the cost. Make sure that you are using the latest repair price list.
- If the repair is more complicated recommend to your customer that the article be sent in for a free of charge estimate.
- If the customer is reluctant to go ahead with the repair, discuss why and see if there is a way to lesson their concerns.  
We can provide descriptions and diagrams to help explain the costing of repairs to your customers.  
(See illustration on page 11)

## How Worn Claws Are Replaced.

Claws need to be viewed from the side to see how much metal there is left holding the stone in place. The top view can be deceiving. Note the narrow amount of metal holding the stone in the setting.



1. Before the claws can be replaced, the stones need to be removed. The worn claw is cut off at an angle. The angled cut creates a larger surface area and provides a stronger bond for the new claw.



3. A groove is cut into the side of the new claw, this is where the stone sits.



2. A new post is soldered into position.



4. The stone is reset. Note the much deeper amount of metal holding the stone in place.



If a claw needs to be replaced because of wear it is likely that all claws in the setting will need to be replaced, it is rare for just one claw in a setting to wear. Check all claws.

# The correct way to use a loupe.

Stand in a well lit area.

Open the loupe up by pushing the magnifying lens out of the case, its on a hinge so it rotates out.

Hold the case of the loupe between your index finger and thumb.

Raise the loupe to your preferred eye.

You may find that resting your 3rd and 4th fingers across the bridge of your nose helps to stabilize the eyeglass.

Stand up straight or looking slightly up lets light in and brightens the object. Avoid leaning forward as this may cause a shadow over the object you are inspecting.

Bring the item to the loupe till it appears in focus, don't move the loupe, move the item.

When at desired focal distance rest item against the hand holding the loupe for increased stability - see image.

Working with 10x (or Ten Powered) magnification takes practice so each time you are assessing any piece of jewellery use the loupe. You will see things you cannot see with the naked eye and it looks professional.

As you are looking describe to the customer what you are seeing and point out damage, wear and potential issues.

Things to look out when assessing a ring.

Worn or damaged/missing claws - if one claw is worn or missing there is a high chance the other claws will need replacing too. It is unusual for claws to wear in isolation.

Damaged, worn or broken stones

Faint or Missing hallmarks

Worn or broken settings on the sides/base

Shoulder setting edges or grains that are weak or damaged

Cracking or faulty metal

Taking in a repair and examining for work that is needed can be profitable - especially if it turns into a bespoke repair.





## The Importance of checking claws.

Why Stones fall out of Settings.

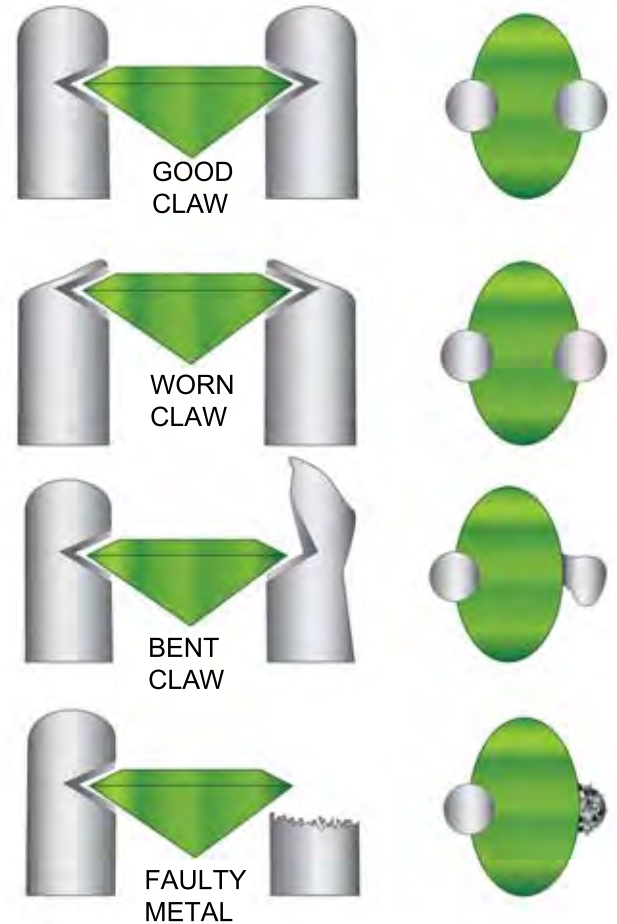
This is a diagram of a perfectly good claw from side and top view. The claw has plenty of metal to hold the stone in the setting securely.

This is a diagram of a worn claw. The amount of metal holding the stone in position is inadequate. Note how the top view looks the same as a good claw but in the side view the claws have worn very thin. That is why it is always important to look at the side view of a setting using an eyeglass. These claws will need to be replaced. Bear in mind if you see one worn claw in a setting it is almost certain that all the other claws will need replacing too. It is rare for one claw to wear in isolation.

This is a diagram of a bent claw. The most common cause is damage such as knocking the setting. If the setting is reasonably new with little wear then the one claw can be repaired and the stone re-set.

This is a diagram of a perfectly good claw on the left and a claw that has broken off leaving a rough surface on the right side of the setting. The most likely cause for the claw to snap off like this is due to a problem when the setting was originally manufactured, probably in the casting process. Sometimes the claws can be replaced but there is a risk that the other parts of the setting may have similar issues not yet visible.

Be aware that attempting a repair might expose a bigger problem..



# Findings

**Jump Ring**



**Bolt Ring**



**Trigger Clasp**



**Round End Caps**



**Barrel Clasp**



**Pendant Bail**



**Box Clasp**



**Hallmark Tag**



**Padlock**



**Carabiner Clasp**



**Flat End Cap**



**Safety Chain**



**T Bar**



**Hasp**



**Double Trigger**



**S Clasp**



**Lobster Clasp**



# Chain and Bracelet Types

**Belcher**



**Figaro**



**Curb**



**Rope**



**Anchor**



**Box**



**Trace**



**Herring Bone**



**Snake**



**Prince of Wales**



**Tennis**



**Gate**



**Foxtail**



**Byzantine**



# Hallmarks

Hallmarks are the authorised stamp impressions that indicate maker, standard of fineness and the Assay office where the Hallmark was issued. Hallmarks also include the year of manufacture, this is symbolised by a letter the font of which changes with every cycle of the alphabet. They are required by law if a piece of gold (9ct, 14ct, 18ct and 22ct) weighs more than 1 gram, for platinum weighing more than 0.5 grams and for silver weighing more than 7 grams.

In 2009 the UK Hallmarking Act was amended by Parliament to incorporate palladium as a metal which requires hallmarking. Having received official recognition as a precious metal in its own right, compulsory hallmarking of palladium items weighing 1g came into effect as of January 1, 2010.










































Any items requiring Hallmarking have to be sent to an Assay Office. Allow two weeks for an item to be hallmarked only, three weeks for sizing and re-hallmarking and approximately five weeks for a 3/4 shank and hallmarking.

We have the facility to process urgent hallmarks in one week - extra charges apply, please contact customer services for more information. (01268 546546)

Point to note, if a previous repair has been undertaken by using an inferior metal e.g. silver instead of white gold, the item will fail the assay

New items which we supply will of course require hallmarking.

Laser Hallmarks - these hallmarks are only burnt on to the surface of the metal by a laser they can be very faint. Rings that have laser hallmarks are harder to size as the hallmarks can easily be removed by the buffing and polishing that is necessary to size a ring correctly. We suggest you bring this to the attention of your customer before sending to the workshop for alteration. If the laser hallmark is removed it can be re-stamped for an approximate cost of £14.99. This will take a further 2-3 weeks as the ring will have to be sent to the Assay Office for re-hallmarking.

COMPULSORY MARKS		THE HALLMARK COMPRISES THREE COMPULSORY MARKS: A SPONSOR'S MARK, A FINENESS MARK AND AN ASSAY OFFICE MARK.				
Sponsor's Mark The registered mark of the company that submitted the article for hallmarking.	Fineness Mark Tells you the precious metal content, expressed in parts per thousand.				Assay Office Mark Tells you which Assay Office tested and hallmarked the article.	
	Silver	Palladium	Gold	Platinum		
		2009 	 9 carat		 London	
	 Sterling		 14 carat		 Birmingham	
	 Britannia		 18 carat		 Sheffield	
		2010 	 22 carat		 Edinburgh	
						
						
OPTIONAL MARKS		YOU MAY SEE OPTIONAL MARKS, SUCH AS THE TRADITIONAL FINENESS SYMBOL AND THE DATE LETTER DEPICTING THE YEAR THE ITEM WAS HALLMARKED.				
Traditional Fineness Symbols	 Sterling Silver	 Sterling Silver Scotland	 Britannia Silver	 Palladium	 Gold	 Platinum
Date Letter	 2008	 2009	 2010	 2011	 2012	 2013
International Convention Marks	 Silver	 Palladium	 Gold	 Platinum	This mark is used by countries including the United Kingdom, that are signatories to the International Convention on Hallmarking and is recognised by all those countries.	
Exemption Weights*	7.78 grams	1.0 gram	1.0 gram	0.5 grams		

## Engraving Department

**Hand Engraving** - This offers the most options, designs such as company logos, inscriptions and motifs such as animals, family crests and signatures can all be matched.

Text can be engraved in any font.

**Machine Engraving** - This is the most common form of engraving and can be used for most standard jewellery e.g. Signet Rings, I.D. Bracelets, Tankards, Locketts etc. We can also engrave inside wedding rings by machine.

**Computer Engraving** - Can be used on a variety of surfaces including glass, plastic, steel and all other metals used in jewellery. As well as standard engraving we can do company logos, signatures and engrave in different languages.

**Seal Engraving** - This is a specialist skill, most commonly used to engrave a family crest onto a signet ring. We can locate crests if necessary.

**Photo Engraving** - We can engrave images from photographs onto any flat metal surface.

**Glass Engraving** - We can engrave certain glassware depending on the shape.

**Handwriting Engraving** - We can scan examples of handwriting and use that for engraving.

SINGLE LINE BLOCK

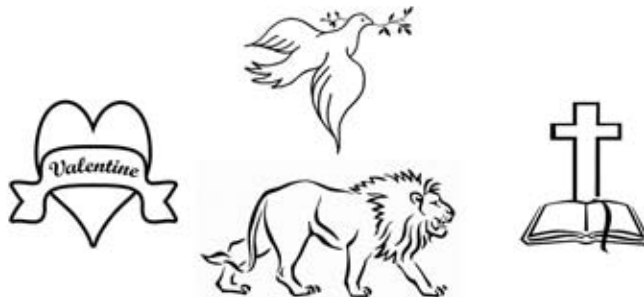
DOUBLE LINE BLOCK

*Single Line Script*

*Double Line Script*

Old English Script

Double Line Roman





## Watch Department

We can **replace batteries** and also **reseal** the case to make **water resistant** on those watches designed for this purpose. We **overhaul** watches - clean, replace or rebuild worn parts. We regulate the time and then test before returning.

**Watch Glass Replacement** - we can cut our own shaped glasses as well as supply standard round mineral glass and perspex.

**Metal Bracelets (gold, silver or platinum)** - we can repair or replace most sections, rebuild clasps, replace missing parts, add safety clasps, extend ladders, tighten any loose links and finish to look like new.

**Metal Bracelets (non-precious)** - if the parts are available, we can adjust the length or we can replace the bracelet, repair or replace the clasp, attach safety chains.

We can replace missing or damaged **buttons and stems**.

We can re-build precious metal lugs or replace non-precious lugs and their covers.

**Electronic Movements** - we can repair or replace as required.

We **pressure test and reseal Dive Watches** for leading watch brands to the manufacturers specification up to 125 bar (1,250 metres).

**Prestige Watch refurbishment-** we provide a prestige Watch Case and Bracelet refurbishment service. All makes including Rolex, Tag, Omega, Breitling and Cartier can be made to look like new.

We are an approved workshop for Bulova and Swatch and can obtain Swatch parts.



Witschi Proofmaster S to test the water resistance of watches.



# Dive Watch Pressure Testing

With our ROXER NATATOR 125 we pressure test and reseal Dive Watches and many of the leading watch brands that include, Rolex, Tag, Omega, Breitling and Cartier to the manufacturers specification up to 125 bar (1,250 metres).



The watch case is inspected for any damage to the glass, the glass gasket, crown and case back. Then the movement is removed from the case.



The pressure is released and the case removed from the chamber. If water penetrates then the case has failed the test. If no moisture is seen in the watch case it has passed that part of the test.



The case back and crown are screwed back onto the case and it is then placed on a stand. This is put in the pressure testing machine and is completely submerged in water.



The case is then put on a heated plate to see if any condensation forms on the inside of the glass. If none forms then the case has passed the test and the movement is returned to the case.



The chamber is closed and sealed tight. The pressure is then raised in the chamber by rotating a wheel to the equivalent pressure, marked on the watch case back.

Useful information to help maintain the water resistance to your watch.

- Any screw down crown/button must be screwed tight to the case.
- No visible flaws to the glass.
- Pressure test your watch annually.



FOR ALL WATER RESISTANT WATCHES WITH A CASE OR DIAL MARKING 20 BAR OR ABOVE INCLUDING DIVE WATCHES.

20bar - 200m  
Suitable for all high impact water sports and scuba diving.

30bar - 300m      50bar - 500m  
100bar - 1000m      250bar - 1250m  
Suitable for all high impact water sports, scuba diving and saturation diving.

A Pressure test pass certificate is issued.

# Watch Overhaul

We disassemble the time piece in order to examine, clean and repair/replace parts as necessary to maintain longevity and efficiency.



Firstly the movement the case, the hands and dial are removed from the case.



With a mechanical watch the mainspring is let down to take the power off, with a quartz watch the battery is removed.



The movement is stripped down i.e. train wheels are removed, motion work and date work taken off.



With a mechanical watch the balance has it's end stones and jewel hole's removed.



After that every part is examined for wear (at this point any worn parts are replaced with new) the parts are put into a watch basket and cleaned in a watch cleaning machine.



The watch is re-assembled and oiled and then put on a timer to regulate and put on "beat". The movement is then put back into the case and bench tested. A diagnostic report card is issued.

# Prestige Watch Refurbishment

All makes including Rolex, Tag, Omega, Breitling and Cartier can be made to look like new.



The movement is uncased, the bracelet, glass, bezel and gaskets are removed.



Heavy dents are removed by file and buff stick. The case and bracelet are then polished, using various compounds to achieve a smooth surface.



To restore a satin effect the high polished parts have to be protected by masking. Then using various blocks and abrasive wheels the satin finish is applied to the exposed parts.



After the desired finish is achieved, the case and bracelet are ultra sonically cleaned to remove any polishing compound. It is then dried.



The glass, bezel and gaskets are then put back on the case, the case is then pressure tested. The movement is then returned to the case and the bracelet attached.



The watch clasp and strap after the renewal of the satin finish.

## Other Services

**Estimates** – we provide an estimate service for items not on the price list. We charge for estimates that are requested and not proceeded to cover the time taken for the assessment and our administrative costs. Any repair that requires more work than requested to resolve the problem, we will give a full description of the work required and the cost before starting the work, this is free of charge.

**Insurance Replacement Work** - we have a specialist department that manages all our insurance work. They assess what has caused the damage whether it is wear and tear or accidental damage. We will give a break down of any remedial work required and the cost.

**Setting and Stone Supply** - we employ our own skilled setters who can set in any style. We keep a large selection of gemstones and diamonds in stock. We are able to source unusual stones and cuts. We can also get a stone cut to your customers requirements. All stones including diamonds can be re-polished to remove to wear, chips and scratches. We can supply stones on approbation for the customers approval before purchase.

**Staff Training** - we have the facility to help with the training of your staff with workshop visits and can arrange training days. Our website apart from being extremely intuitive and informative is very much tailored towards educating our customers staff in all aspects of the jewellery industry.

**WhatsApp number 07534 659247** - for quick answers to **technical** questions send your questions and images to our WhatsApp number. Available 9am to 4pm, Monday to Friday (not including bank holidays).

# Unique Systems

All Parcels are digitally recorded whilst being opened, this recording is kept on file. This provides a record that we can refer to if there are any discrepancies between the dispatch note and the products received.

Items booked into the system are given a bar coded label so that they can be tracked as items are transferred from one department to another. This means enquiries can be dealt with quickly and efficiently as pieces can be located promptly.



A digital image is taken of every item before work is started, this is kept on file by us.

Every item is checked by our quality control department before being returned.

We digitally record the packing up of every parcel sent out by us, this recording is kept on file. This provides a record that we can refer to if there are any discrepancies between the dispatch note and the products returned.

We can provide various reports that can help our customers analyse current trends and plan for the future e.g. the number and type of repairs, the number of estimates given and how many of those are proceeded, the total value of the work we carry out, the average cost per repair.





# Jewellery Laser Welder

TEL: 01268 546 546

[enquiries@makermends.com](mailto:enquiries@makermends.com)

In our Jewellery Workshop we have a Laser Welder.

A jewellery laser welder uses light energy that produces heat to weld metals. The heat from the welder is finely focussed in a narrow beam, so that the surrounding area is not effected or discoloured by the process. Argon gas is used to shield the surrounding area and reduce oxidation and if Laser filler is used make that flow smoother.

This makes lasers particularly useful for:

- Repairing damaged jewellery without the need to unset and then reset heat sensitive stones.
- Pieces can be repaired with only localised heating preserving the appearance of the item.
- Rejoining areas that are particularly hard to get to.
- Ring resizing.
- Retipping and repairing claws.
- Repairing costume jewellery.
- Repairing filigree pieces.
- Repairing items that contain epoxy resin, enamel or pearls.

Can be used on gold, silver, platinum, palladium, titanium and other jewellery metals.



# Media

To provide our customers with a continual source of information on various aspects of jewellery and watches we produce several online and printed publications. We share this information in a variety of media, online, printed, DVD's. We use text, images and movie files and utilise the two way interactivity of social media accounts. Please read below for further information.



**www.makermends.com** - our website is tailored towards training and education, we invite all our customers to please make full use of the information, including videos of certain procedures e.g. dive watch pressure testing, to help with staff training.



**www.facebook.com/MakerMends** - like our Facebook page and become part of our online community where we share interesting photos, articles and videos about jewellery and watches. Take part in our fun quiz's.



## **Instagram - makermends**

<https://instagram.com/makermends/>

Images of jewellery, watches, gems, workshops for you to share.



**http://pinterest.com/makermends** - take a look at the images of some of our beautiful pieces on our pinboards. See story boards of CAD designs, our hand carved waxes, different setting styles, before after shots and more.



**https://twitter.com/makermendsltd** - follow us on Twitter to read and comment on our information about jewellery and watches, ask or answer a question.

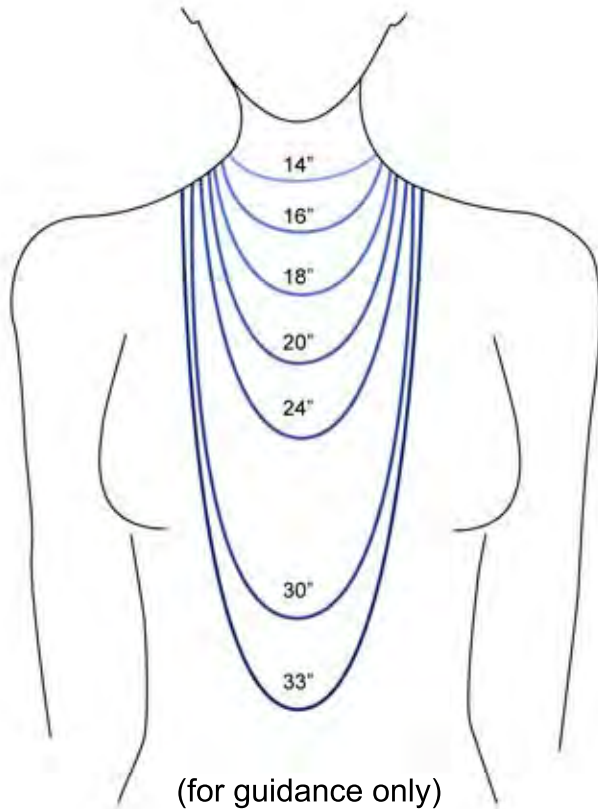


**https://www.youtube.com/user/MakerMends** - Our Youtube Channel has a selection of videos showing a variety of workshop procedures.



**https://lewistful.blogspot.com** - read our blog - a general collection of information on jewellery and watches - stories, advice, images, romance, ideas, facts and more.

## Necklace Lengths



## Wedding Band Profiles

Traditionally a wedding band that is curved on both sides was called a court band. A D Shape was curved on the outside and a Comfort Fit curved on the inside. Nowadays many manufacturers use their own terms to describe the profile of a wedding band e.g. half round. In addition all profiles come in different weights and thickness. These are examples of the more popular profiles.

### Court/Comfort



Full



D Shape



Flat

### Other



D Shape Flat



Flat



Concave



Bevelled