NoCry

Rotary Tool Kit User Manual

We've tried our best to make this manual understandable and useful.
Please read it carefully, and keep it safe with your rotary tool kit for future reference.

WHAT'S INSIDE THIS MANUAL?

THE ABC'S OF ROTARY TOOL SAFETY

Please, *please* read all safety warnings and instructions - they're pretty reasonable. We don't mean to sound dramatic, but neglecting the following instructions may actually result in electric shock, fire, and/or serious injury easier than you might think. There's other - better ways to get your adrenaline going.

Also, **save this manual for future reference**. Reviewing it once in a while in between rotary tool uses and before instructing others won't hurt either - in fact, we strongly recommend it. If someone else is going to be operating this tool, make sure they have read and understood all the information in this manual prior to handling your rotary tool. Makes sense, right?

✔ **Don't force your rotary tool.** No one is fond of having to do something they're forced to do - same goes for your rotary tool. Do not overload it, and use it for its intended purpose - detailed carving, engraving, cutting, grinding, polishing and sanding jobs. Also...

✔ **Use the accessories and attachments as intended.** On pages 11-19, we've listed all accessories & attachments that come with your rotary tool, and their purpose. Stick to that list.

✔ **Do not use third-party accessories (such as grinding discs) with the maximum rated speed below 35,000 RPM.** The power of the rotary tool will most likely tear them apart and scatter them everywhere. Imagine a piece of rough sandpaper hitting your face at 100mph (or 160 km/h) - not the most pleasant of experiences.

✔ **Do not use accessories or attachments other than the ones recommended in this user manual.** We've included quite a wide variety of add-ons to get everything done. But if you do wish us to consider adding another one, let us know at wecare@nocry.com, and we'll see what we can do (we already tried adding a can opener - it was a bad idea).

✔ **Do not use a malfunctioning tool.** If the switch doesn't turn on and/or off, it's a pretty clear sign not to use your rotary tool, and to get it repaired or replaced. If you're suspicious that your rotary tool is not working properly, feel free to contact us to wecare@nocry.com.

✔ **Disconnect your rotary tool from the power source before making any adjustments, changing accessories, or putting it in storage.** This way, you'll ensure it will not turn on accidentally.

✔ **When the power supply is interrupted** (for example, in case of a power failure or when the mains plug is pulled), immediately set the on/off switch to the "off" position to prevent uncontrolled restarting.

✔ **To keep your rotary tool well-maintained,** regularly check if any parts are misaligned, damaged or broken, or if there's anything else that might affect its performance. If you notice anything odd, definitely bring the power tool for repair *BEFORE* using it.

✔ **Find a qualified repair person** who only uses replacement parts identical to the original to service and repair your rotary tool. This will ensure that the safety of it is maintained, and there will be no unpleasant surprises. ***Pro tip:*** Take this manual with you to the service point, just in case.

✔ **Make sure that everyone using your rotary tool kit or servicing it is acquainted with this manual.** The exception to the rule are children and infirm people - they shouldn't be using your rotary tool even if they remember every word written here.

✔ **Keep children and bystanders away.** Distractions can easily cause you to lose control, so consider operating your rotary tool as your alone time. You'll catch up with everyone later, when you've made some progress with the project.

✔ **If you absolutely must have children in the working area,** make sure they're closely supervised by another (responsible) adult and do not interfere with your work.

Grinding, cutting and sanding safety

✔ **Do not position your hand in line with or behind the rotating disc.** The kickback would most likely cost you your hand.

✔ **To avoid damaging the discs and bits,** only use accessory types that are included in your rotary tool kit, and only use them for the recommended applications. For example, do not grind with the flat surface of a cut-off disc - it's intended for peripheral grinding, and applying side force may cause the disc to shatter.

✔ **Only use undamaged mandrels that are of correct size and length** to reduce the possibility of cutting and sanding disc breakage.

✔ **Do not "jam" the cut-off disc, apply excessive pressure, or attempt to make an excessively deep cut.** It over-stresses the disc, increasing the risk of it catching your hand or fingers. Your rotary tool will do the job like a hot knife on butter even without additional effort on your part - save the energy for showing off the finished work.

✔ **If the disc is binding or interrupting a cut for no reason,** switch the rotary tool off in the middle of the cut and hold it *in the cut* motionless until the disc comes to a complete stop. Then and only then remove it from the cut, investigate the cause of the disc binding and make it right before getting back to work. On that note...

✔ You can switch the rotary tool off, but **do not restart it with the disc still in the material.** Instead, let the disc reach full speed in the air, and then carefully re-enter the cut.

✔ **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding disc may cut gas or water pipes, electrical wiring, or objects that can cause kickback and other issues you don't want.

✔ **Use support underneath any workpiece - especially the larger ones.** Large workpieces tend to sag under their own weight, so, to minimize the risk of disc pinching and kickback, it's best to place the support panels under the

workpiece near the line of cut and near the edge of the workpiece on both sides of the disc.

Polishing safety

✔ This one is pretty straightforward: **Do not allow any loose portion of the polishing wheel to spin freely.** Tuck away or trim any loose polishing wheel strings, so they can't entangle your fingers or snag on the workpiece.

Wire brushing safety

✔ **Be aware that the brush throws wire bristles even during ordinary operation.** So do not overstress the wires by applying excessive load to the brush. It might also be useful to keep in mind that they can easily penetrate light clothing and/or skin.

✔ **Allow the brush to run at operating speed for at least one minute before using it.** During this time, no one is to stand in front of or in line with the brush to not get hit with the loose bristles and wires that are discharged during the run-in time.

✔ During use, **direct the discharge of the spinning wire brush away from you** to avoid the small particles and tiny wire fragments become embedded in your skin at high velocity.

Work area safety

✔ **Keep your working area clean and well illuminated.** Accidents are much more likely to happen in messy, dirty, or dark workspaces - accidents that are super easy to avoid with basic upkeep.

✔ **Secure the workpiece.** We're not underestimating you, but a workpiece secured with suitable clamps or in a vice is much more likely to be steady and stay in place than one held by a hand.

✔ **Do not operate your rotary tool in dusty or explosive areas,** such as in the presence of flammable liquids or gases, for a very simple reason - power tools create sparks which may ignite the dust or fumes. Not the kind of fireworks you want.

✔ **Are you familiar with the accident prevention regulations and general rules of occupational health and safety in force in your area?** No? The sooner you get acquainted, the sooner you can start using your rotary tool there.

Electrical safety

✔ **Do not modify the plug, and make sure it matches the outlet** to reduce your chances on getting an electric shock. Also, adapter plugs and earthed (grounded) power tools are a really bad combo.

✔ **Do not abuse the cord.** The cord isn't the reason you're having a bad day - and it won't be, if you won't use it for carrying, pulling, or unplugging the rotary tool, and will keep it away from heat, oil, sharp edges, and moving parts.

✔ **Avoid body contact with earthed or grounded surfaces** such as pipes, radiators, stoves, and refrigerators.

✔ **When working outside, use an extension cord meant specifically for outdoors use.** It's going to be much more convenient, and will reduce the risk of an electric shock.

✔ **Do not expose your rotary tool to rain and wet conditions.** Search "water and electricity don't mix" on YouTube, and you'll see why.

✔ **If damp conditions are unavoidable**, use a residual current device (RCD) protected supply.

✔ **Find out if there are any utility lines hidden in the work area.** Use suitable detectors or call the local utility company for assistance. It's totally worth it - only imagine the level of booms and ouchies that coming in contact with electric lines, damaging a gas line, or penetrating a water line can bring.

Personal safety

✔ **Common sense is the best protection, isn't it?** Stay alert - watch what you're doing, exercise common sense, and do not operate your rotary tool when you're tired or under the influence of drugs, alcohol, or strong medications. It takes a split second of inattention to get into major medical bills that could have easily been avoided.

✔ **To avoid unintentionally starting the tool,** make sure the power switch is in the off-position before connecting your rotary tool to a power source, or before picking up or carrying it. Also, learn to *never* carry power tools with your finger on the power switch.

✔ **Remove any adjusting key or wrench before turning your rotary tool on.** A wrench or a key left attached to a rotating part of the rotary tool will ruin your day real fast.

✔ **Do not take unnecessary risks** by trying to reach areas that are obviously too far away to reach safely. Keep proper footing and balance at all times - it'll help you keep control in unexpected circumstances, would it be the power tool slipping out of your hands, or someone deciding it would be fun to attempt to pull a jumpscare on you in your workshop.

✔ **Keep your hands far enough from the rotating parts and cutting attachments.** If those attachments and accessories can be effectively used on glass, metal, and other hard materials, just imagine what they could do to your digits.

✔ **Do not underestimate the power of personal safety equipment.** It'll make your life way easier and better. Without goggles or safety glasses, you risk damage to your eyes. Without an effective dust mask, you risk damaging your lungs. Without a pair of noise-reducing earmuffs, you risk impairing your

hearing. In short - **eye, head, ear, hand, foot, and respiratory protection is a must** when operating your rotary tool. And while we're on the topic...

✔ **Do not wear loose clothing or jewelry, keep your hair, clothing and gloves away from moving parts**, and you'll never have to experience your rotary tool trying to rip them off you.

✔ **Dust safely.** If you're using a specific device for dust extraction and collection, ensure that it's connected and used properly.

NB! NoCry Work & Safety Gear and the manufacturer shall not be liable for any changes made to the tool, nor for any damage resulting from such changes.

TECHNICAL SPECIFICATIONS

shaft lock button

chuck or collet nut

motor brush housing cap

speed dial

housing cap

NO CRY

motor brush housing cap

power switch

precision handle attachment

NoCry Rotary Tool NRT-128AC

Voltage	120V~60Hz (US), 220-240V~50Hz (Europe)
Rated power	1.4 Amps | 170 Watts
No load speed	8,000-35,000 RPM^{-1}
Collet/Chuck diameter	Ø1/8 in | 3.2mm
Weight	1.58 lb | 720g
Protection class	回/II

All rotary tool parts
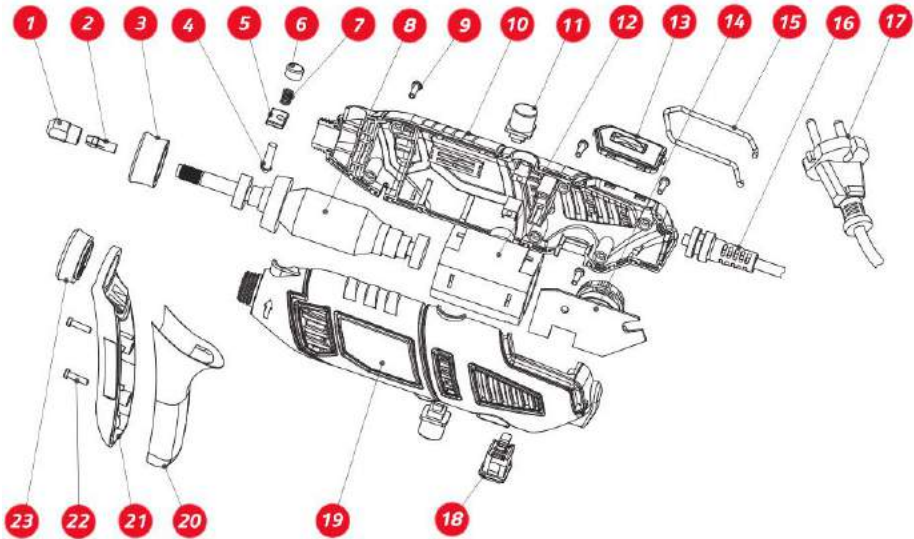
1 Collet nut. **2** Collet. **3** Housing cap. **4** Shaft lock. **5** Gasket. **6** Shaft lock button.
7 Spring of the shaft lock. **8** Rotor. **9** Screw. **10** Right body. **11** Carbon brush.
12 Stator. **13** Speed dial. **14** Circuit board. **15** Hanger. **16** Cord sleeve. **17** Plug.
18 Switch. **19** Left body. **20** Right handle. **21** Left handle. **22** Handle screws.
23 Housing cap.

INCLUDED ATTACHMENTS & THEIR PURPOSES

These attachments will help you get the most from all the different accessories that come with your rotary tool kit (you can find the accessories list on pages 14-19). Here are the attachments we've included in the package - **note that the images are not to scale:**

1 CHUCK

The adjustable chuck is a godsend for when you want to quickly and easily change between almost all rotary tool accessories, as the grip can be easily adjusted for shanks with a diameter of up to 1/8in | 3.2mm. *Find our tips on installing and using it on page 27.*

1 COLLET NUT SET

The most precise and secure way to hold an accessory at high speeds. The collets come in 3 sizes (Ø1/8in, 3/32in, and 1/16in | 3.2mm, 2.4mm and 1.6mm) to ensure the tightest fit for your chosen accessory. *It's not as straightforward to use as the adjustable chuck, but still pretty simple - see the instructions on page 25.*

1 FLEXIBLE DRIVER HEX CAP NUT

This will help you attach your flexible driver to your rotary tool. *Find the steps for installing and using the flexible driver on page 32.*

1 FLEXIBLE DRIVER

Perfect for when you need to use the rotary tool in hard to reach places, or for finesse work - like when cutting or engraving. *Find the steps for installing and using the flexible driver on page 32.*

1 ROTARY TOOL STAND

The stand is used to hold the rotary tool up for maximum mobility when using the flexible driver. If you can't immediately recognize it, know that it consists of a table clamp and an adjustable height rod, and comes disassembled in the box - *find our tips on setting it up on page 33.*

1 PRECISION HANDLE SET

This is the key to doing any sort of precision work with your rotary tool - it redistributes the weight of the tool to your palm for improved balance, which is oh-so important for those precision projects. When looking for it in the box, keep in mind that the set consists of the precision handle and the narrow housing cap. *Find tips on attaching and using it on page 34.*

1 CUTTING SET

The cutting guide with adjustable depth and the 3 drill bits together allow for a sturdy and controlled cut with maximum visibility. *Look for the set-up instructions on page 34, and speed & material recommendations - on page 21.*

Pro tip: The drill bits can also be used independently from the cutting guide, to help you get the most from the kit.

1 PIVOT LIGHT

Even though you won't be using your rotary tool in dark conditions, sometimes, a little extra light is necessary for detailed work. The set-up is pretty simple - replace the housing cap with the pivot light, and you're good to go.

1 SHIELD

This bad boy provides additional protection by redirecting sparks and debris while cutting, grinding, sanding, and polishing. Just replace the housing cap with the shield, and don't worry - it's compact enough to not disturb your work.

A SANDING/GRINDING GUIDE

The platform provides stability and enhanced control during edge sanding and sharpening. Interested? *Find the set-up & use instructions on page 35.*

1 SHARPENING GUIDE

Use the guide with the grinding stones and sanding bands to sharpen all blades, such as shears, hoes, lawn mower blades, shovels etc., at the optimal angle. *Find our tips on using it with your rotary tool on page 35, and the speed & material recommendations for sharpening - on page 22.*

INCLUDED ACCESSORIES & THEIR PURPOSES

The below listed accessories, used with the appropriate attachments, are the key to gettings things done with your rotary tool. **Note that the images may not be to scale.**

Carving and engraving accessories

Pro tip: A useful accessory to use with these accessories is the flexible driver, which provides extra level of control and mobility. See our tips on installing it on page 32.

7 DIAMOND-TIP BITS, *Ø1/8in | 3.2mm*

Covered with diamond particles, these bits are made to be used on harder materials for fine detail work, engraving, carving, touch-up, and finishing. Which materials exactly, you ask? *See our material & speed setting guide on page 21.*

1 HSS CUTTER, *Ø1/8in | 3.2mm*

Use the HSS cutter for shaping, hollowing, grooving, slotting, and making tapered holes in a variety of materials - *see our material & speed setting recommendations on page 21.*

Cutting accessories

36 BLACK CUT-OFF DISCS, *15/16 x 1/64in | 24 x 0.4mm*

These black cut-off discs cut along their edge for a nice, sharp, thin cut in tougher materials like plastic and metal (might have some difficulties with really tough reinforced metals though). *See our tips on attaching them on page 28, and in case you're wondering about the materials they can cut, and at which speed setting - our guide is right there on page 21.*

1 CUT-OFF & SANDING DISC MANDREL, *Ø1/8in | 3.2mm*

This mandrel's main task is to attach the cut-off and sanding discs to your rotary tool - *see how on page 28.*

1 HSS CUTTER, *Ø1/8in | 3.2mm*

The HSS cutter can not only be used as a carving tool, but together with the tile cutting guide, it becomes great for cutting various metals, woods and plastic (hence the name) in a manner similar to spiral saw blades in any direction - *see our material & speed setting tips for cutting with the HSS cutter on page 21.*

Grinding and sharpening accessories

The grinding and sharpening accessories are probably among the most useful in the kit, as they are perfect for those practical, everyday money-saving DIY jobs like sharpening tools, mower blades, or even boat propellers, and smoothing, grinding and cleaning a variety of materials around the house and garden.

5 PINK, 3 BROWN & 2 GREEN GRINDING STONES, *120 grit, Ø1/8in | 3.2mm*
The different colors aren't just for fun (otherwise we'd have made all the stones red, obviously). The brown and pink ones are aluminum oxide stones, while the green ones - silicon carbide, and all colors have different applications. *See our tips on which materials to use them on, and at which speed setting on page 22.*

1 GREEN WHET STONE
Grind your grinding stones against this little fella, and it'll bring them back to life in no time. If necessary, you can also reshape your grinding stones with this.

Cleaning and polishing accessories

2 LARGE WHITE FELT WHEELS, *1 x 1/4in | 25.3 x 6.3mm*
Made of sturdy felt for polishing various materials from a semi-rough finish to a smooth one. *Find set-up instructions on page 29, and for material & speed setting tips flip over to page 23.*

2 SMALL WHITE FELT WHEELS, *1/2 x 1/4in | 12.7 x 6.3mm*

Yes, the large felt wheels are great, but just sometimes, you need something smaller for precision work - and that's this felt wheel's time to shine (pun intended). *Find set-up instructions on page 29, and for material & speed setting tips flip over to page 23.*

1 FELT WHEEL MANDREL, *Ø1/8in | 3.2mm*

This odd-looking screw is the key to attach the felt wheels with your rotary tool - *learn how to use it on page 29.*

1 WHITE WOOL POLISHING DRUM, *Ø1/8in | 3.2mm*

Works wonders with light stock removal and high luster polishing on several materials. *Wondering how to attach it to your rotary tool?*

1 GOLD BRASS & 1 BLACK BRISTLE BRUSH, *Ø1.8in | 3.2mm*

Whenever there's a need for light deburring, cleaning, polishing of silverware, jewelry, and other precious metals, these brushes are the thing for the job. *Find out which materials they can be used on and at which speeds on page 23.*

Sanding accessories

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6 LARGE BROWN SANDING BANDS, *180 grit, 1/2 x 1/2in | 12.7 x 12.7mm*

These brown sanding bands are perfect for rough shaping, smoothing, removing rust, & shaping rubber surfaces. *See our tips on fitting the sanding bands to the appropriate size rubber sanding drum on page 30, while for material & speed setting recommendations, flip over to page 23.*

6 SMALL BROWN SANDING BANDS, *180 grit, 1/4 x 1/2in | 6.3 x 12.7mm*

Whenever there's a more delicate job that the large sanding bands just won't do, reach for these smaller ones, and see magic happen. *See our tips on fitting the sanding bands to the appropriate size rubber sanding drum on page 30, but for material & speed setting recommendations, flip over to page 23.*

2 BLACK SANDING DRUMS, *Ø1/8in | 3.2mm*

Available in two sizes, these are the 'mandrels' that attach the sanding bands to your rotary tool. *See our tips on fitting the sanding bands on them on page 30.*

1 SANDING & CUT-OFF DISC MANDREL, *Ø1/8in | 3.2mm*

You might have seen this babe in the cutting accessories section above. This mandrel's main task is to attach the cut-off and sanding discs

to your rotary tool - *find the set-up tips on page 28.*

40 BROWN SANDING DISCS, *240 grit, 25/32 x 1/64in | 20mm x 0.4 mm*

For rough shaping, smoothing wood and fiberglass, removing rust from metal surfaces, and shaping rubber surfaces. The sanding discs are finer than the sanding bands, and are therefore better for finer details. *See the set-up instructions on page 28, and flip back to page 23 to find out which materials you can use these on, and at which speed settings.*

Drilling accessories

3 DRILL BITS, *3/64 x 1/16in, 3/64 x 3/32in, 3/64 x 1/8in | 1 x 1.6mm, 1 x 2.3mm, 1 x 3.2mm*

The three high-speed drill bits are ideal for getting your rotary tool to drill various materials for arts & crafts projects, or use with the cutting attachment. *Flip over to page 24 for our material & speed recommendations for drilling.*
Pro tip: Use together with the tile cutting guide for sturdy and controlled cuts with maximum visibility.

Adjustment accessories

1 WRENCH/SCREWDRIVER

We're quite into multi-purpose things, and this is no exception. On one end, this is a wrench you can use to loosen and tighten the collet nut, but on the other end - a screwdriver for the mandrels.

HOW TO USE YOUR ROTARY TOOL

Before we begin, please remember to pull the mains plug before doing any work on the machine itself (changing accessories, service etc.).

We'd love to keep up with your projects - share the process (and the finished work) with us sometimes via Instagram with the hashtag #nocrygear, on our Facebook page, or via email to wecare@nocry.com.

How to switch the rotary tool on or off

This is fairly simple. The I on the power button means ON, and the O - yes, you guessed it - means OFF. Therefore, to start the rotary tool, press the power switch to I, and to turn it off - to O.

NB! Before turning your rotary tool on, make sure it's set to the slowest speed. Once you've turned it on, you can adjust the speed to your needs.

How to select and adjust the speed

The rotary tool has an adjustable, 7 speed control for precise speed adjustment from 8,000 to 35,000 RPM (revolutions per minute). To break it down, setting 1 equals 8,000 RPM, setting 2 - 10,000 RPM, setting 3 - 15,000 RPM, setting 4 - 20,000 RPM, setting 5 - 25,000 RPM, setting 6 - 30,000 RPM, and MAX setting - 35,000 RPM. All you have to do to get to your desired speed, is rotate the dial.

Now, to help you get the most from each speed setting, here's a handy-dandy speed & material cheat sheet for every accessory in the kit:

Recommended speed settings for carving and engraving

	with diamond bits	with the HSS cutter
Aluminum	-	6
Brass	-	6
Ceramic	5	-
Copper	-	6
Glass	6	-
Hardwood	5	MAX
Plastic	-	MAX
Shell	5	-
Softwood	5	4-5
Steel	-	4-5
Stone	5	-

Recommended speed settings for cutting

	with the cut-off discs	with the HSS cutter	with the cutting set
Aluminum	MAX	6	-
Brass	MAX	6	-
Ceramic	MAX	-	-
Copper	MAX	6	-
Hardwood	4-MAX	MAX	6-MAX
Plastic	2-3	MAX	-

Shell	MAX	-	-
Softwood	4-MAX	4-5	6-MAX
Steel	MAX	4-5	-
Stone	MAX	-	-

Recommended speed settings for grinding and sharpening

	with the pink & brown grinding stones	with the green grinding stones
Aluminum	3	3
Brass	3	3
Ceramic	MAX	MAX
Copper	3	3
Glass	-	MAX
Hardwood	MAX	-
Plastic	4-5	-
Shell	4-5	2-3
Softwood	MAX	-
Steel	6	5
Stone	4-5	2-3

Recommended speed settings for cleaning and polishing

	with the polishing wheels and drum	with the gold brass brush	with the black bristle brush
Aluminum	4-5	-	3
Brass	4-5	3	3
Ceramic	4-5	-	-
Copper	4-5	3	3
Glass	4-5	-	-
Hardwood	-	3	3
Plastic	-	-	3
Shell	4-5	-	-
Softwood	-	3	3
Steel	4-5	3	3
Stone	4-5	3	-

Recommended speed settings for sanding

	with sanding discs	with sanding bands
Aluminum	2-3	MAX
Brass	2-3	MAX
Ceramic	-	2-MAX
Copper	2-3	5-MAX
Hardwood	6	2-MAX

Plastic	2-3	2-MAX
Shell	-	2-MAX
Softwood	6	2-MAX
Steel	-	MAX
Stone	-	2-MAX

Recommended speed settings for drilling

	with any of the included drill bits
Aluminum	4-5
Brass	4-5
Copper	4-5
Hardwood	6-MAX
Plastic	4-6
Softwood	MAX

How to attach and change accessories with the collet nut kit

1. Take your chosen accessory, the three golden-colored collets, and try placing the shank of the accessory in the collets until you find a collet that fits. *If you're confused about which are the collets, you can see what they look like on page 11.*

2. Put the accessory aside for now, and insert the properly sized collet inside the collet nut. *To see the difference between the collet nut and the chuck nut, flip back to page 11.*

3. Put the collet nut with the collet on the rotary tool shaft.

4. Take the accessory you had put aside, and insert it in the collet nut.

5. Press down the shaft lock button, and rotate the collet nut with the accessory inside until the nut is tight and you cannot rotate it any more. *If you're confused about which is the shaft lock button, head back to page 9.*

6. To make sure that the collet nut is as tight as it can be (you don't want to suddenly have your cutting discs flying off), take the wrench that came in the rotary tool kit, and tighten the nut. And yes, keep the shaft lock button pressed down while doing so - it prevents the shaft from rotating while you're adjusting the nut. *If you want to see what the wrench looks like to locate it in your kit, flip back to page 19.*

To change the accessory, press the shaft lock button down, rotate the collet nut off, and repeat the process from Step 1.

How to attach and change accessories using the chuck

1. Choose your accessory, and insert it into the adjustable chuck nut. *To see the difference between the chuck nut and the collet nut, flip back to page 11.*

2. Press down the shaft lock button, and rotate the chuck on the rotary tool until tight. *If you're confused about which is the shaft lock button, head back to page 9.*

Nope, we didn't miss anything - that is it. To change the accessory, press the shaft lock button down, rotate the multi chuck off, and repeat the process from Step 1.

NB! While the adjustable chuck will work with all of the included accessories, it will not work with all of the attachments. So, when using the sharpening guide or the tile cutting guide attachments, we'd suggest using the appropriate collet nut instead.

How to adjust the chuck for different size accessories

Simply loosen or tighten the adjustable chuck on the rotary tool shaft as necessary to fit the shank of the chosen accessory. Be sure to keep the shaft lock button pressed down to stop any rotation while you're at it.

NB! While the adjustable chuck will work with all of the included accessories, it will not work with all of the attachments. So, when using the sharpening guide or the tile cutting guide attachments, we'd suggest using the appropriate collet instead.
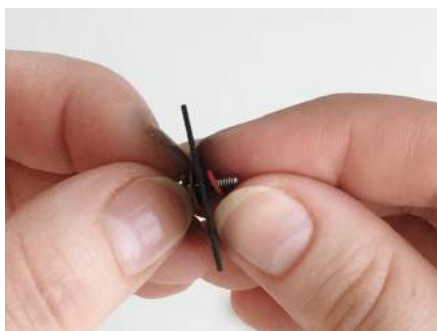
How to fit a cutting or sanding disc

1. Loosen the small screw on top of the cut-off & sanding disc mandrel with the included screwdriver. *You can see the cut-off & sanding disc mandrel on pages 15 or 18. A picture of the wrench/screwdriver is on page 19.*

**2.** Now you have separated the mandrel into a small screw and the mandrel shank (the longer piece) - take off one of the discs from the small screw.

3. Insert the small screw through the hole in the center of the cutting or sanding disc. Then put one of the small discs back on the screw to "sandwich" the bigger sanding or cut-off disc.
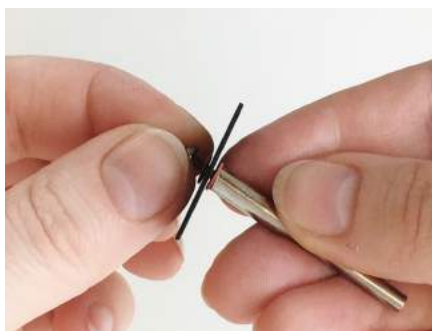
4. Rotate the small screw with the disc attached back on the mandrel shank.
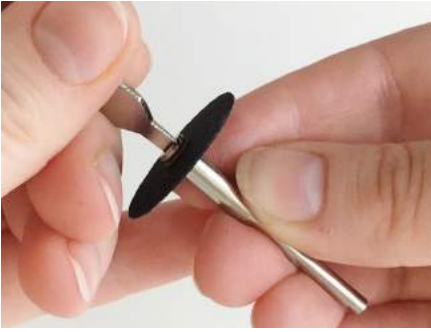
5. Use the screwdriver end of the wrench to tighten the mandrel to secure the disk firmly in place, so it does not wobble. Do not to over tighten as the disc can crack.

Choose whether you'd like to use the collet nut or the adjustable chuck for attaching the mandrel to your rotary tool, and set it up accordingly. The instructions for attaching an accessory with the collet nut kit can be found on page 25, and the instructions on attaching an accessory using the adjustable chuck - on page 27.

How to fit a felt wheel

1 Choose one of the white felt wheels - notice the tiiiiiny little dent in the middle of it? It's like a needle has been put through it. Take the felt wheel mandrel, place the sharp point of it in the tiny dent, and just screw the felt wheel onto the mandrel until the screw part is fully inside the wheel.

2 Choose whether you'd like to use a collet nut or the adjustable chuck for attaching the mandrel to your rotary tool, and set it up accordingly. The instructions for attaching an accessory with the collet nut kit can be found on page 25, and the instructions on attaching an accessory using the adjustable chuck - on page 27.

How to fit a sanding band

1. Loosen (not remove) the small screw on top of the black rubber sanding drum with the screwdriver on the back of the wrench. This will contract the rubber, so you can slide the sanding band onto the drum. *Picture of the wrench/screwdriver can be found on page 19, sanding bands and drums on page 18.*

2. Take the appropriate size sanding band onto the sanding drum, and slide it into the tightened sanding drum.

3. Tighten the screw on top of the sanding drum with the screwdriver. This will expand the rubber, so the sanding band won't slide off the drum.

Choose whether you'd like to use the collet nut or the adjustable chuck for attaching the mandrel to your rotary tool, and set it up accordingly. The instructions for attaching an accessory with the collet nut kit can be found on page 25, and the instructions on attaching an accessory using the adjustable chuck - on page 27.

How to install the flexible driver

1. First, unplug the tool from the power supply and remove any attachments and housing caps from the rotating tip of the tool.

2. Take the hex cap nut and screw it onto the rotating part of the tool. *You can see a photo of the hex cap nut on page 11.*

3. Push down the shaft lock button *(see page 9)* to fully tighten the cap nut in place.

4. Inside the flexible driver's hood, you'll find the inner drive shaft - pull enough of it out to be able to work comfortably.

5. Insert the inner drive shaft into the hex cap nut as far as it will go. Don't worry if you can pull it out, as it will securely fasten when you place the driver's hood over the hex cap nut in the next step.

6. Finally, place the flexible driver hood over the hex cap nut and rotate clockwise to fasten. To remove the flexible driver, undo the hood, press and hold the shaft lock button and unscrew the hex cap nut.

How to attach an accessory to the flexible driver

1. Insert your chosen accessory in the adjustable chuck. *You can see a picture of the adjustable chuck on page 11.*

2. Press the flexible driver shaft lock button, and hold it.

3. Insert the adjustable chuck with the chosen accessory onto the flexible driver, and rotate clockwise to securely fasten, while keeping the shaft lock button pressed. When tight, release the shaft lock button and start work!

NB: Try to keep the flexible driver more or less straight at all times. If you do need to bend or loop it, **make sure the curve has a radius no smaller than 6 inches | 15cm to not damage the driver.**

How to set up the rotary tool stand

1 Your rotary tool stand comes disassembled in the kit, so locate both of the pieces - the long metallic stick with a hook on one end (the stand), and the plastic table-shaped block with a long screw in it (the table clamp). You can see an image of the rotary tool stand in its assembled form on page 12.

2 Adjust the screw on the table clamp enough to fit the clamp on the edge of your table. Once you've hooked it onto the edge of your table, tighten the screw so that the clamp is secure and does not move.

3 Take the stand and screw it into the table clamp as tight as you can.

4 Adjust the stand height as necessary by pulling the stand as long as you need, and rotating to secure the position.

5 Now your stand is set-up! Hang your rotary tool from the metal hook, and you're good to go.

How to attach the handle for precision work

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1 Remove the thicker housing cap from the rotary tool. *You can see a picture of the housing cap & its location on page 9.*

2 Take the precision handle and put it on your rotary tool through the round hole in the handle body. *To make it easier to identify the precision handle in your kit, check the image on page 12.*

3 Secure the precision handle by screwing the thinner of the housing caps onto your rotary tool until tight.

Pro tip: When working with the handle, hold the rotary tool like a pen between your thumb and forefinger. It might need a bit of practice for perfect results.

How to attach and use the cutting set

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1 Remove the housing cap from your rotary tool. *You can see a picture of the housing cap & its location on page 9.*

2 Attach your chosen drill bit to the rotary tool using the collet nut kit - follow the how-to on page 25. *There's 3 drill bits included in your rotary tool kit - you can see what they look like on page 13 or 19.*

3 Take the cutting guide, and notice the inner core - it has numbers on it. Before attaching the cutting guide to your rotary tool, make sure that the long groove of the inner core is secured in line with the screw on the guide's outer shell. You can move and adjust the inner core by turning the screw. The inner core in combination with the screw is for depth adjustment, while the outer shell is the actual guide. *If you're having trouble recognizing the cutting guide in your kit, flip back to page 13, where you'll see a photo of it.*

4 Screw the cutting guide onto the rotary tool where the housing cap would normally be.

5 To use the cutting guide, adjust the height/depth by turning the screw on the side of the cutting guide, and move the rotary tool around with the cutting guide flat on the surface you're cutting.

How to attach and use the sanding/grinding guide

1 Remove the housing cap from your rotary tool. *You can see a picture of the housing cap & its location on page 9.*

2 Attach your chosen sanding/grinding accessory to the rotary tool using the collet nut kit - follow the how-to on page 25.

3 Screw the sanding/grinding guide onto the rotary tool where the housing cap would normally be. *If you're having trouble recognizing the sanding/grinding guide in your rotary tool kit, flip back to page 13.*

4 To change the depth of the guide, rotate the screw on the side of the sanding/grinding guide and move the guide up or down, depending on what's the depth you're aiming for.

5 Use one of the flat surfaces of the grinding guide to control the movement of your application.

How to attach and use the sharpening guide

1 Remove the housing cap from your rotary tool. *You can see a picture of the housing cap & its location on page 9.*

2 Attach your chosen grinding stone to the rotary tool using the collet nut kit - follow the how-to on page 25.

3 Screw the sharpening guide onto your rotary tool where the housing cap would normally be. *If you're having trouble recognizing the sharpening guide in your rotary tool kit, flip back to page 14.*

4 Use the sharpening guide by placing the blade of the tool you intend to sharpen along the angled edge of the guide for an even finish.

How to replace the motor brushes

After approximately 50 hours of work time with the rotary tool, the 2 brushes in the motor will wear out. Since the brushes are carbon blocks that conduct electricity from the mains power into the motor and are therefore essential for the motor to work, worn-out brushes will cause the rotary tool to stop working. But no worries - it's an easy fix, and we've included 2 spares in the kit.

1 Open the motor brush housing caps on the sides of the rotary tool with the included screwdriver. *You can see the location of the motor brush housing caps on page 9, while a picture of the screwdriver/wrench can be found on page 19.*

2 Take the old motor brushes out, and place the new ones in with the carbon block going in first. Be careful to not damage the spring!

3 Put the motor brush housing caps back on with the circular end of the spring against the cap, and tighten with the screwdriver.

CLEANING AND MAINTENANCE

Cleaning

Before starting to clean your precious rotary tool, always disconnect it from the mains power plug first. The cleaning itself is a pretty simple affair - wipe the equipment with a clean cloth or blow it with compressed air at low pressure. For more stubborn stains, use a lightly damp cloth with some soft soap, but make sure that no water can seep inside your rotary tool (that includes not using wet attachments & accessories).

NB! Do not use cleaning agents or solvents, as they may damage the plastic parts. In between cleanings, try to keep all safety devices, air vents and the motor housing as far away from dirt and dust as possible.

Maintenance

Good news - there are no parts inside your rotary tool that require professional maintenance.

Responsible ways of disposal

This product has been marked with a symbol relating to removing electric and electronic waste.

The Waste Electrical & Electronic Equipment Regulations (WEEE) requires that any product showing this marking must not be disposed of with other household or commercial waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate any such products from other waste types and recycle it responsibly at your local recycling facility. Check with your local authority, recycling centre or retailer for recycling advice. Don't just chuck it in the trash or leave out on the street.

TROUBLESHOOTING

If these tips do not help solve the issue, or if you have any other questions, want to us give praise or a piece of your mind, drop us a message at wecare@nocry.com.

Tool doesn't turn on

Try solution 1: Check that the power cable is correctly plugged into the wall socket (don't worry, we've all been there), and the socket is working as it should.

Try solution 2: If you've been using the tool a lot lately, it could be time to replace the exhausted motor brushes. Don't worry, it's an easy fix - go to page 37 to see just how easy.

Try solution 3: If the previous solutions haven't worked, then it's likely a power switch issue. If you're still covered by our 4 year warranty, then drop us a line at wecare@nocy.com and we'll inspect, repair or replace your tool for free.

Speed drops while working

Increase the rotation speed by turning the variable speed dial. Flick back to pages 21-24 to see which speed rate works best with the material and accessory you are working with.

Variable speed dial doesn't work

An internal connection might have come loose or disconnected. Best take your tool for inspection, or contact us at wecare@nocry.com and we'll look into it.

Shaft lock doesn't lock

Try solution 1: When fitting and fastening an accessory to the rotating end of the tool, keep the shaft lock button held down until you feel it lock. The tip should no longer be able to turn. If it continues to turn, the rotating mechanism is faulty and will need to be repaired. Contacts us at wecare@nocy.com to have your tool repaired or replaced by us.

Try solution 2: Remove any dirt built up in or around the shaft lock button using a small brush (an old toothbrush works great) and try to attach your accessory.

Flexible driver's inner shaft comes loose

Follow the step by step guide back on pages 32-33. If you're still having difficulties, see below for a recap...

1 Thread the hex cap nut over the inner metal shaft. The threadable part of the cap nut should face away from you. Hold in one hand.

2 In the other hand, take the tool and hold down the shaft lock button. Mount the thredable end of the hex cap nut with the inner shaft inserted, onto the rotating tip of the tool. Begin to tighten the hex nut cap.

3 Continue tightening the thread until you feel the lock button click. The rotating tip lock is now locked. Let go of the lock button.

4 The cap nut can now be fully tightened. Place the hood over the hex cap nut and you're done. Contact us at wecare@nocy.com if you're still having problems.

Flexible driver's inner shaft has fallen out

Reinsert the inner metal shaft back inside the flexible driver's rubber housing, no biggie.

Tool overheats

Try solution 1: Let your tool cool down after heavy use. And while it's taking a break, why don't you do the same?

Try solution 2: Your tool will develop breathing difficulties if its side vents are blocked. Be kind and check they aren't filled with dust or debris. Clean them out by either blowing into them, or using compressed air at a low pressure.

Try solution 3: If your tool still doesn't cool down, it could have swallowed a small piece of your project. Open the housing caps using a flat head screwdriver (the one on the back of the included wrench works great), and gently blow or use compressed air to clean.

Accessory doesn't stay attached

Using the correct size collet goes a long way, as does having your chosen accessory positioned nice and snug in the chuck. Head back to pages 25-27 for a quick refresher on attaching and changing accessories.

Can I use another brand of accessory?

Yes, but make sure the accessory you buy has a shank diameter of up to Ø1/8 in | 3.2mm, an M8 shaft thread size and that it can withstand rotation speeds of up to 35,000rpm.

ROTARY TOOL LIABILITY

This product is covered by an EU directive, valid since 01.01.1990, specifying that the manufacturer is only liable for products if all the parts originate from the manufacturer or are approved by them, and if the units are mounted and operated properly.

If accessories or spare parts from third parties are used, liability can be partially or completely inapplicable. So no using those shifty parts you picked up on the cheap. In extreme cases the responsible authorities can prohibit the use of the entire unit.

We recommend you always buy original parts and accessories as compliance with all safety regulations is guaranteed, meaning you are covered and protected. Another weight off your mind.

WARRANTY

All NoCry products are inspected and tested to ensure their quality before leaving the factory. If you're not happy with your NoCry product, please contact us within 30 days of receiving it at wecare@nocry.com to return it for free for a replacement product or to receive a full refund. The choice is yours.

Each NoCry electric product is warranted to be free of defects in material and workmanship for the period of FOUR years from the date of original purchase. Warranty does not cover normal wear and tear, abuse, altered products, modifications, and products that have been repaired or attempted to be repaired by others than NoCry. At NoCry's discretion, a defective product will be repaired or replaced.

This warranty gives you specific legal rights, but may be superseded by any other rights or warranties in effect, which may vary from state to state (or based on your local jurisdiction). If you think you might have a defective product, please contact us at wecare@nocry.com. Our customer care team will be happy to help and start the (free) procedure to determine whether your product is defective.

NoCry's warranty applies to ONLY products being sold by Authorized Resellers. We regretfully will not provide any warranty for products sold by any other sources. Proof of purchase will be required to obtain warranty. Please review the warranty carefully, and contact us if you have any questions.

HOW TO CONTACT NOCRY

Thank you so much for joining the NoCry community with your rotary tool kit. If you have any questions or concerns, let us know by writing an email to **wecare@nocry.com**.

We'd also love to connect with you via social media. You can find us on Instagram, Facebook and Pinterest by searching "NoCry Work & Safety Gear".

If that's a bit too informal...

Model No.: NRT-128AC
Identifier: NOCRY29USUK
Batch ID: NRT-2018-10

Registered seller information for European customers:

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Which icon best describes your experience with your NoCry Rotary Tool Kit?

At NoCry, we try to treat everyone like we'd treat our own mom. On her birthday, no less. So please **let us know what went wrong by sending us an email to wecare@nocry.com**. We'll be on the case right away.

Why not spread the word to others who are looking for a rotary tool AND **help us serve you better and grow as a company**, by leaving a review on Amazon? To do that, go to Amazon > Orders (top menu) > Write a product review. Or search for the NoCry Rotary Tool Kit on Amazon, and leave a review that way.