WARNING To reduce the risk of serious injury, read and understand all safety precautions and instructions in this manual before using this tool.
Limited Warranty

30 Day Money Back Guarantee

Buy with confidence. If you are not completely satisfied, return your tool to the selling dealer within 30 days and you will receive a refund of either your purchase price or the lowest retail price at which the same item has been offered since your date of purchase. Freight charges are not refundable.

Service All-Inclusive® Warranty

Festool USA warrants that all new Festool power tools purchased from authorized dealers in the U.S. and Canada will be free from defects in materials and workmanship for a term of three years from the date of original retail purchase.

Conditions of Service All-Inclusive Warranty

This warranty applies for three years from the date of original retail purchase. Proof of purchase is required. This warranty is void if the tool is not used, operated, repaired and maintained in accordance with the tool’s instruction manual.

Excluded from this warranty’s coverage are:
- Accessories and/or attachments, including, but not limited to, saw blades, drill bits, router bits, sanding discs and apparel
- Tools purchased from outside of the U.S. or Canada
- Repairs or replacements not performed by an authorized Festool Service Center, outside of routine maintenance as set forth in the instruction manual
- Parts or components not supplied by Festool or that have been modified
- Damage caused by misuse, abuse, accident, impact, abnormal wear and tear, improper storage and/or exposure to the elements, or neglect
- Damage caused by anything other than defects in materials and workmanship
- Normal adjustments and recommended maintenance as set forth in the tool’s instruction manual
- Damage from the operation of the tool at a voltage or frequency different from the tool’s rating, including the use of transformers

1 The following is an exemplar Festool limited warranty. The actual warranty that comes with your power tool is controlling.
2 Tool must be returned in complete and whole condition as supplied to include Systainer, cutter, blade, power cord, etc.
3 For purposes of this warranty, power tools are defined as any Festool branded product that bears a serial number (S.Nr. or M.Nr.).
4 To determine if your application is excluded from the warranty under this condition, please contact the Festool Service Center at 800.554.8741.

Warrantor:

Festool USA
Festool Canada
400 N Enterprise Dr.
Lebanon, IN 46052
Phone: USA—888.337.8600
Canada—613.363.0169
festoolusa.com/SAI
festoolcanada.com/SAI

Reparis

If your Festool power tool requires repair, whether it be warranty or non-warranty, you must contact our Service Department at 888-337-8600 (613-363-0169 Canada) for authorization and address details.

Liability Statement

This product has been built to the high standards of Festool. Please do not attempt to operate or repair this equipment without adequate training. Any use, operation, or repair in contravention of this document is at your own risk. By acceptance of this system you hereby assume all liability consequent to your use or misuse of this equipment. Festool assumes no liability for incidental, special, or consequential damage of any kind. Equipment specifications, applications, and options are subject to change at the sole discretion of Festool without notice.

Proprietary Notice

All drawings and information herein are the property of Festool, TTS Tooltechnic Systems AG & Co. KG. All unauthorized use and reproduction is prohibited.

Written and Illustrated by Rick Christopherson.
© 2014 TTS Tooltechnic Systems AG & Co. KG
Festool USA is a division of Tooltechnic Systems, LLC.

Festool is a trademark and service mark of TTS Tooltechnic Systems AG & Co. KG
Plug-It and Systainer are registered trademarks of TTS Tooltechnic Systems AG & Co. KG
www.festoolusa.com
About This Manual

Save These Instructions

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.

WARNING! Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION! Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE: Indicates a potential situation which, if not avoided, can result in property damage or damage to the tool.

Note: Indicates information, notes, or tips for improving your success using the tool.

Tool Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>Volts</td>
</tr>
<tr>
<td>W</td>
<td>Watts</td>
</tr>
<tr>
<td>Hz</td>
<td>Hertz</td>
</tr>
<tr>
<td>~</td>
<td>Alternating Current (AC)</td>
</tr>
<tr>
<td>n</td>
<td>No-load Speed</td>
</tr>
<tr>
<td>☑</td>
<td>Class II Double Insulated</td>
</tr>
</tbody>
</table>

Supplemental Owner's Manual
General Power Tool Safety Warnings

Work Area Safety

- Keep your work area clean and well lit. Cluttered or dark work areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water进入 a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.
- Never use an extension cord that is damaged, including cuts, exposed wires, or bent/missing prongs. Damaged extension cords increase the risk of fire or electric shock.
- Use only extension cords rated for the purpose.
- Use only extension cords rated for the amperage of this tool and the length of the cord. Using too small of an extension cord can cause the cord to overheat.

<table>
<thead>
<tr>
<th>Extension Cord Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cord Length</td>
</tr>
<tr>
<td>&lt;50 Ft.</td>
</tr>
<tr>
<td>50-100 Ft.</td>
</tr>
<tr>
<td>&gt;100 Ft.</td>
</tr>
</tbody>
</table>

Personal Safety

- Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source, picking up, or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- Remove adjusting key or wrench before turning the power tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- Always wear safety glasses complying with ANSI Z87.1. Ordinary glasses are not proper protection.

Power Tool Use and Care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it is designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store idle tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool’s operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories, and tool bits etc. in accordance with these instructions, taking into account the working conditions and the job to be done.

Rotex Series Dual Mode Sanders
conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

► To reduce the risk of serious injury, never alter or misuse the power tool.

Service

► Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Specific Safety Rules for Sanders

► Know the material you are sanding and take precautions accordingly. Some materials contain chemicals, elements, or fibers which may be toxic or harmful when abraded. Take caution to prevent dust or vapor inhalation and skin contact.

► Always perform sanding in a well ventilated area and use personal respiratory protection.

► Do not use in wet environments. Ingestion of water into the motor may result in electrocution hazard.

► Do not use the sander if the sanding pad fails to retain the sanding disk. Replace the sanding pad. A loose sanding disk can come free and cause personal injury.

► Take care when disposing of fine sanding dust. Fine particle dust may become explosive. Do not throw sanding dust on an open flame.

► Never sand materials containing asbestos.

Respiratory Exposure Safety Warnings

Substantial or repeated inhalation of dust and other airborne contaminants, in particular those with a smaller particle size, may cause respiratory or other illnesses. Various dusts created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals or substances known (to the State of California and others) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals/substances are: lead from lead-based paints; crystalline silica from bricks, cement, and other masonry products; arsenic and chromium from chemically-treated lumber; and some wood dusts, especially from hardwoods, but also from some softwoods such as Western Red Cedar.

The risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area and use a properly functioning dust extraction system. When the inhalation of dust cannot be substantially controlled, i.e., kept at or near the ambient (background) level, the operator and any bystanders should wear a respirator approved by NIOSH for the type of dust encountered.

Sander Overview

Intended Use

The Rotex sanders are designed for dry sanding and polishing of wood, plastic, metal, composite materials, paint/varnish, filler, and similar materials.

The sander must not be used when wet or damp, or operated in a damp environment for electrical safety reasons. Use this sander only for dry sanding. The tool should not be altered or used for any other purpose, other than as specified in these operating instructions. Using the tool in contravention to this manual will void your warranty and may lead to injury. The user shall be responsible and liable for damages and accidents resulting from misuse or abuse of this sander.

Technical Specifications

<table>
<thead>
<tr>
<th></th>
<th>RO 90 DX FEQ</th>
<th>RO 125 FEQ</th>
<th>RO 150 FEQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>400 W</td>
<td>500 W</td>
<td>720 W</td>
</tr>
<tr>
<td>Orbital Speed</td>
<td>3000-7000 rpm</td>
<td>3000-6000 rpm</td>
<td>3300-6800 rpm</td>
</tr>
<tr>
<td>Rotational Speed (Rotex Mode)</td>
<td>260-520 spm</td>
<td>300-600 spm</td>
<td>320-660 spm</td>
</tr>
<tr>
<td>Orbital Stroke</td>
<td>3 mm</td>
<td>3.6 mm</td>
<td>5 mm</td>
</tr>
<tr>
<td>Sanding Pad Diameter</td>
<td>90 mm</td>
<td>125 mm</td>
<td>150 mm</td>
</tr>
<tr>
<td>Dust Extraction Port Size</td>
<td>27 mm</td>
<td>27 mm</td>
<td>27 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.5 kg / 3.3 lbs</td>
<td>1.9 kg / 4.2 lbs</td>
<td>2.3 kg / 5.1 lbs</td>
</tr>
</tbody>
</table>

These specifications are subject to change without notice.
**Functional Description**

- **Item** | **Name or Description** | **Ref. Page(s)**
- A  | Power Switch  | 13
- B  | Mode Selector  | 7, 13
- C  | Speed Control Dial  | 12
- D  | Dust Collection Port  | 12
- E  | Dust Channel Release (RO150)  | 12

<table>
<thead>
<tr>
<th>Item</th>
<th>Name or Description</th>
<th>Ref. Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Plug-It Power Port</td>
<td>12</td>
</tr>
<tr>
<td>G</td>
<td>Sanding Pad</td>
<td>10</td>
</tr>
<tr>
<td>H</td>
<td>DX Sanding Pad (RO90)</td>
<td>11</td>
</tr>
<tr>
<td>I</td>
<td>Sanding Bumper/Protector</td>
<td>13</td>
</tr>
<tr>
<td>J</td>
<td>Fast-Fix Spindle Lock</td>
<td>10</td>
</tr>
</tbody>
</table>

**RO 90 DX FEQ**

**RO 125 FEQ**

**RO 150 FEQ**
Sanding Action/Mode

Sanding is defined as scratching or abrading a surface. So when we discuss scratches and scratch patterns, the goal is to minimize them or make them less visible to the eye, but they will always be present.

The Festool Rotex sander is not only a dual-action sander, but is also a dual-mode sander. Even though those two terms sound similar, they do not mean the same thing. Because both of the dual modes are variations of dual-action, it is best to describe dual-action first.

Dual-Action

Dual-action means that the sanding pad moves in two distinct motions simultaneously. The primary motion is an eccentric orbit—similar to the motion of a bicycle pedal. The center of the sanding disk moves in a small eccentric circle about the center of the sander. The diameter of this orbital path ranges from 3mm to 5mm, depending on the model sander (Refer to “Technical Specifications” on page 5).

The second motion is the rotation of the disk about the disk’s center. Because the sanding disk is eccentric to the machine center, so is this path of rotation.

The effect of this dual motion is that each point on the sanding pad traces out a geometric shape called a roulette. You may be familiar with this shape from the children’s drawing toy, “Spirograph”. The exact shape of this roulette depends on the ratio between the orbital radius and the radius of the pad rotation. This means that each part of the sanding pad traces out a slightly different shape. This minimizes the visibility of the scratch patterns on the wood because each part of the sanding disk leaves slightly different scratch shapes. Dual action sanders don’t leave fewer scratches, but the scratches are less visible because each one is different.

Gear Driven (Rotex) Mode

In the gear driven mode, the dual-action rotation of the sanding pad is directly coupled to the orbital motion. For each of the Rotex sander models, the pad rotates once for approximately 10 orbits of the eccentric center. (In the image below-left, this ratio is 9.5 to 1.)

This gear driven mode provides some of the aggressiveness of a rotary grinder, but the high ratio (10:1) of the rotation-to-orbit minimizes the visible scratches that a grinder would impart on the wood.

Random Orbit

This name random orbit is a slight misnomer because it isn’t the eccentric orbit that is random, but the disk rotation that is random. The motion of the sanding pad is still considered dual-action, but the rotational component of the motion is not constrained to follow a strict ratio of the orbits like a gear-driven sander. The disk rotation is permitted to freewheel about the orbit, and this includes even rotating backward at times.

It is this freewheel motion that permits the sander to be both fairly aggressive but to also leave very few visible scratches. Again, it isn’t because there are fewer scratches, but that the scratches are even less visible.

What makes the rotation of the disk somewhat random is friction with the sanding surface. Inertia causes the disk to want to rotate in unison with the orbital motion, but friction with the workpiece tempers this motion, and causes the disk to speed up, slow down, or even turn backward.

You may have noticed that when hand-sanding wood, there is more resistance to sanding across the grain than there is with the grain. The same is true for a random orbit sander. As a result, when the orbital motion is moving across-the-grain, the freewheel rotational motion will resist moving across the grain. The net result will be more scratches being parallel to the wood grain than across the grain.

Unlike a singular orbital motion (orbital sander) or a singular rotational motion (grinder), whose scratch patterns will be circular, a random orbital scratch pattern will be more “V” shaped and in the direction of the wood grain. Because these are less geometric in shape, they are less visible to the eye. The tighter this “V” shape, the less noticeable the scratches will be.

Optimizing Random Orbit

Optimizing the sanding doesn’t remove the number of scratches, it just makes them less visible to the eye. The least visible scratches are those that are not geometric and are in-line with the wood grain. Both of these conditions are optimized by letting the friction between the sanding pad and sanded surface control the rotation of the sanding disk.

Many operators will apply excessive downward pressure to the sander to slow down the freewheel motion of the pad, but this will increase the amount of friction and make the scratches more geometric and more visible. Instead, using a light pressure allows the cross-grain friction to be larger than the in-line friction, and the ideal scratch pattern shown above will be the result.

The best random orbit motion is when the sanding pad has very little pressure, and is permitted to freewheel on its own.
Anatomy of Sandpaper

The various parts of sandpaper affect its performance. These are shown below and explained in the subsequent sections.

**StickFix** is a short-nap hook and loop system for retaining the sandpaper to the Festool sanding pad. The stiff, short-nap hooks resist heating effects, and therefore last longer.

**Backing** is the primary substrate for the sandpaper. The backing type determines the performance and longevity of the sandpaper. Stiffer backings resist the pressure of the individual grit particles, and is therefore more aggressive in sanding. Softer backings conform to the grit particles more, so the result is shallower scratches from the grit particles.

Paper backing is the most common and economical type, and comes in different thicknesses designated by a letter-weight of b, c, d, or e with the higher the letter, the heavier/stiffer the paper.

Cloth backed disks are the stiffest and intended for extreme usage conditions where long-life is important. The extra durability makes them ideal for a metal working environment, but they may also be used for aggressive sanding in woodworking.

Foam backed disks provide the softest backing for the shallowest scratches. This permits the disk to better contour to the surface being sanded and is ideal for polishing.

**Abrasives** is the material that performs the actual sanding or abrasion. The two most common types of abrasive material are aluminum oxide and silicon carbide, with aluminum oxide being the more common of the two.

Silicon carbide is a very hard material with very sharp edges. Because silicon carbide is so hard, it fractures easily, and this exposes new cutting edges to the sanding operation. This keeps the sandpaper very sharp for cutting hard materials, but the grit gets smaller with usage. A side benefit of this is that a coarse grit sandpaper will become a finer grit with use, which is typically desired in the sanding process. Silicon carbide is best suited for finish sanding where reduced sanding pressure reduces how frequently the grit cleaves.

**Aluminum oxide** is almost as hard as silicon carbide, but the crystals are pyramid shaped and do not cleave the edges during use. The edges aren’t as sharp, but that is what permits them to last longer. This long life is the reason aluminum oxide is one of the most common abrasive materials.

**Grit** is the size of the abrasive particles. The smaller the grit number, the larger the grit particle size. Larger grit particles will cut deeper into the sanded surface, and therefore, more aggressively. However, the deeper the cut, the deeper the scratches. This is the reason why sanding is performed with progressively finer grits; to remove the scratches left behind from the coarser grits.

**Dispersion (Coat)** is the spacing between grit particles that coat the substrate. The term “open coat” for example, means that at least 70% of the substrate is open or uncoated. A closed coating means that the substrate is nearly fully coated, and a semi-open coat falls somewhere in between the two. The dispersion is most noticeable in the coarser grits where an open coat results in visible exposure of the substrate (see image below).

A more open dispersion leaves more room for sanding dust (called swarf) to clear the sanding grit to avoid buildup and clogging, but also permits the grit to penetrate deeper into the sanded workpiece, leaving deeper scratches.

**Base Bond and Top Bond** is the material and/or method for adhering the abrasive to the backing material. The grit material is impregnated into the bonding agent to slightly encapsulate the grit material for better adhesion and less fracturing of the grit.

The thickness of the top bond is called the leveling, as it tends to fill in the valleys and level the bond coating. An open leveled top bond is lighter and leaves deeper valleys to permit greater swarf removal.

A closed leveled top bond is thicker and fills in the valleys, but provides a stronger bond of the abrasive grit particles. This prevents the grit from breaking loose from the substrate for longer lasting, durable abrasive properties, but may clog faster when sanding materials that generate more swarf.
**Non-Woven Fiber,** Vlies (pronounced fleece) is a special abrasive pad of a non-woven fiber impregnated with abrasive into the fiber. The flexible fiber mesh and 3-dimensional abrasive make these ideal for polishing finishes and metal surfaces.

**Choosing the Appropriate Grit**

Selecting the best sanding grit for a task is fairly subjective and depends on the task and even the sanding mode of the sander. The adage of working progressively up through the grits is based on the principle of each finer grit removing the scratches that the coarser grit leaves behind.

For initial stages of sanding with a coarse grit, the goal is to level the surface. With this comes the trade off between speed versus deeper scratches. The key is to choose the finest of the coarse grits that will provide the leveling in a reasonable amount of time and effort. Choosing too coarse of a grit may actually increase the amount of sanding later to remove excess scratching. The Rotex line of sanders provide the added benefit of gear-driven mode, which can remove material quickly with a less-coarse grit. Therefore, before switching to a finer grit, first switch the sander back to random orbital mode to help reduce the scratches with the same grit that created them. Then you can progress through the grits normally or switching between modes.

The purpose of fine sanding is the removal of previous scratches. The key here is to sand only up to the finest grit necessary for the desired finish type. The final grit size should be commensurate with the grain or structure size of the material being sanded. Metals, plastics, and finishes; for example, have a very fine structure and may be sanded to a finer grit. Wood, on the other hand, has a relatively large grain structure and should not be sanded beyond a medium grit unless a burnished finish is desired. (Burnishing tends to close the wood pores and reduces the absorption of stains and finishes.)

In summary, you should avoid starting too coarse or finishing too fine for the particular material or surface type.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUBIN</td>
<td>► Aluminum Oxide</td>
<td>P40-P220</td>
<td>The heavy weight paper backing and strong top bond make this sandpaper very good for long lasting use on bare wood, metal, and auto body fillers.</td>
</tr>
<tr>
<td></td>
<td>► e-Wt Paper</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Synthetic Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Closed-coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRANAT</td>
<td>► Aluminum Oxide</td>
<td>P40-P1500</td>
<td>The non-wax stearated coating and lighter paper weight make this a very good universal sandpaper for finished and unfinished wood, metal, plastic, solid surface, and composite materials. The high density closed coat grit is more uniform for reduced scratches.</td>
</tr>
<tr>
<td></td>
<td>► Synthetic Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Closed-coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRILLIANT</td>
<td>► Aluminum Oxide</td>
<td>P40-P400</td>
<td>The lighter weight paper and thinner top bond results in shallower scratches for good sanding results in harder woods, finishes, and paints. The open-leveled top bond and anti-static coating loads less when sanding finishes.</td>
</tr>
<tr>
<td></td>
<td>► Synthetic Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Closed-coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAPHIR</td>
<td>► Aluminum Oxide</td>
<td>P24-P100</td>
<td>The cloth-backing, semi-closed coating, and closed-leveled bond make these disks very durable workhorses for sanding and leveling on hard wood, metal, fiberglass, and reinforced plastics.</td>
</tr>
<tr>
<td></td>
<td>► Cloth-backing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Semi-close Coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Closed-leveled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRISTAL</td>
<td>► Aluminum Oxide</td>
<td>P40-P120</td>
<td>The broad open-coat dispersion of this disk makes it ideal for aggressive sanding without loading on clog-prone materials, such as paint stripping or high-resin woods.</td>
</tr>
<tr>
<td></td>
<td>► Phenolic Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Open-coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITAN</td>
<td>► Aluminum Oxide</td>
<td>P40-P3000</td>
<td>The latex base bond provides greater flexibility of the grit coating, which makes Titan idea for polishing tasks on solid surface, plastics, and finishes. The semi-closed coat and open-leveled top bond result in finer sanding with fewer scratches. However, with the stearate coating, it is not recommended for water borne finishes.</td>
</tr>
<tr>
<td></td>
<td>► Synthetic Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Latex Base Bond</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Semi-close Coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLATIN</td>
<td>► Silicon Carbide</td>
<td>S400-S4000</td>
<td>The tight woven grit base and foam backing makes Platin ideal for a high gloss surface in plastic, solid surface, and finishes. The permeable foam and fiber results in consistent dust extraction across the whole disk and cooler surface temperatures.</td>
</tr>
<tr>
<td></td>
<td>► Synthetic Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Open Coated</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Foam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VLIES</td>
<td>► Al-Ox or Si-Carb</td>
<td>A120-A800</td>
<td>The elastic fiber mat with impregnated grit makes Vlies ideal for deep pore cleaning of woods and scouring or de-rusting of metals.</td>
</tr>
<tr>
<td></td>
<td>► Synthetic Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>► Stearate Si-C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Setup

Changing Sanding Pads
Each model sander may be used with a variety of sanding pad options. It may also be necessary to change sanding pads for different sanding purposes or when they become worn.

CAUTION! Do not use a sanding pad if it no longer holds the sanding disk in place. Using a worn pad can result in the sanding disk to fly off the pad and cause injury. Sanding pads are considered a wear item and should be replaced when the StickFix hook-&-loop fibers cannot firmly hold the sanding disk.

NOTE: Excessive heat from sanding will cause the sanding pads to wear faster. To maximize your pad life, avoid operations that generate excessive friction and heat, such as sanding stationary on a sharp edge or applying too much pressure while sanding.

Choosing the Correct Sanding Pad
Sanding pads come in different grades of hardness/softness for improved performance for different sanding tasks. The hardness or softness of the sanding pad determines how much the sanding pad conforms to the surface being sanded.

A harder sanding pad is best for course sanding on flat surfaces. The firmer pad resists creating a wavy surface where there are softer and harder portions of the wood fiber. This is especially important with woods that have a wide spacing in their annular growth rings or significant differences in the density of the wood fiber between rings.

A slightly softer sanding pad is best used for progressively finer sanding of the workpiece. This permits the pad to slightly conform to the surface to ensure previous grit sanding marks are removed, but is less prone to creating a wavy surface because the grit is less aggressive.

Similarly, a very soft sanding pad is best used for fine sanding or sanding of finishes. Having greater conformance to the very small waves in the surface is desired, and with the high grit abrasive, risk of creating deeper waves is less likely.

Removing/Installing the Pad
1. Unplug the sander for safety.
2. Lock the sander spindle from rotating:
   - For the RO90, turn the mode selector to the DX (orbital) mode.
   - For the RO125 and RO150, slide the mode selector to the Rotex mode, and press in on the spindle lock button.
3. Rotate the pad 1/4-turn to remove or install it.
Changing Delta (RO90) Sanding Pads

The RO90 sander can also use an optional detail sanding pad. The Delta (DX) sanding pad is triangular shaped for reaching into tight corners and along edges. The pad operates only in orbital mode, and does not rotate.

**NOTICE:** The RO90’s mode selection dial has an interlock to prevent the sander from being operated in either of the rotary modes when the DX pad is installed. Forcing the dial to turn with a DX pad installed will damage the sander.

The standard DX sanding pad is actually a sanding pad holder with removable sanding pads. The sanding pads can be either a hard sanding pad or a soft sanding pad. An extended sanding pad is also available, but does not use the separate sanding pads. The extended sanding pad has a longer tip for reaching into narrow spaces. Both types of Delta pads use the same sandpaper.

### Installing the Pad on the Holder

The sanding pad is secured to the holder with hook & loop around the perimeter and with a snap in the center. To install the pad, center it over the snap, align the dust ports with the holes in the pad, and then firmly press it into place.

### Installing the Pad (Holder) on the Sander

1. Unplug the sander for safety.
2. Turn the mode selector dial to the DX mode.
   - This lowers the interlock pin and locks the spindle in the only position the DX pad can be installed.
   - If the interlock pin is extended, the dial is not in DX mode and the pad cannot be installed.
   - If the spindle is not locked, rotate it until it does lock.
3. Place the DX pad on the spindle at 45° counterclockwise from its normal position so it engages the retaining tabs. (The pad and sander bodies have alignment arrows for this position, as shown in the image below.)
4. Rotate the DX pad clockwise until it clicks into place and is aligned with the main body of the sander.
5. To remove the DX pad, press forward on the release button (shown in the lower left image), and rotate the pad 45° counterclockwise.
Changing Sandpaper
The sandpaper is held in place with a hook & loop system, and can be changed by simply pulling off the old disk and pressing on a new one. However, for the integral dust collection, make sure to align the holes in the sandpaper with the dust extraction inlets in the sanding pad.

Connecting a Dust Extractor
The dust port on the back of the sander connects to a Festool 27mm vacuum hose. To connect the hose, rock it back and forth over the ribs while pressing inward.

Connecting the Plug-It Power Cord
The sander comes equipped with a removable Plug-It power cord. The cord can be removed for easier storage of the tool. To install the power cord, insert the cord into the inlet (port) on the tool with the key and keyway aligned, and twist the locking ring ¼-turn until it clicks. Reverse the procedure to remove the cord.

**NOTICE:** Make sure to fully tighten the plug-it cord a full quarter-turn until it clicks. If the plug is not fully locked, the socket and cord can overheat and be damaged.

**NOTE:** The 18 gauge plug-it cord is interchangeable with other tools that use the same size cord, but it cannot be used with larger tools, such as routers and saws. The plug has an extra key to prevent it from being used on a larger tool that would otherwise damage the cord. Larger cords may be used with smaller tools, but not the reverse.

Setting the Variable Speed
The speed of the sander is adjustable with the speed control dial. Most operations are best performed at full speed, but a lower speed can sometimes improve control or reduce aggressiveness for finer operations, such as polishing or buffing. The speed may be adjusted with the motor either on or off. The slowest speed is 1 and the highest speed is 6.
Installing the Sanding Bumper

The sanding bumper is used to help keep the sander from gouging perpendicular borders around the sanding area. It can be removed from the sander for better visibility of the sanding disk for most operations.

To install the bumper, slide it over the front of the sander’s housing until the tabs lock into place.

To remove the bumper, pry out on the end of the bumper to release the tabs and slide the bumper off the sander housing.

Setting the Sanding Mode

The Rotex sanders can be switched between gear-driven (Rotex) mode and random orbit mode. The RO-90 has the third option of orbital mode (Delta). The chosen mode is dependant on the type of sanding required.

Rotex mode is the most aggressive for rapid material removal. Random orbit mode produces the finest finish with minimal visible scratches. Orbital mode is typically used in conjunction with the delta sanding pad for detail sanding, but may also be used with circular sanding pads if desired.

Changing modes should be done with the sander turned off. For the RO-125 and RO-150 sanders, slide the selector switch side to side to the respective mode setting. For the RO-90, rotate the selector dial to the desired setting.

NOTICE: The RO90’s mode selection dial has an interlock to prevent the sander from being operated in either of the rotary modes when the DX pad is installed. Forcing the dial to turn with a DX pad installed will damage the sander.

Turning on the Sander

For best control and sanding results, the sander should be placed on the sanding surface with no downward pressure before turning it on, and lifted from the surface before turning it off. The Rotex sanders have soft-start circuitry, so there will be a slight delay before the sander reaches the set motor speed.

To turn the sander on, slide the power switch forward until it clicks into the on position. To turn the sander off, slide the power switch back.
Operation

Aside from installing sandpaper, your Rotex sander is ready to use right out of the box. There is no special setup, adjustment, or break-in procedure required before using your sander. However, new users may want to practice with the sander to become familiar with its operation, function, and even the best way to hold the sander.

Sanding is frequently considered one of the most important stages of any type of project because it is often the first stage of the finishing phase. Even given its great importance, the nuances of sanding are often overlooked, and it is viewed as more of a chore than a productive aspect of the overall project. Discovering the optimal nuances of your sander will help you get the most out of your sander, but may take some practice and learning.

Using Dust Extraction

Using dust extraction on a Rotex sander isn’t just a matter of keeping the work area clean or protecting your health; which of course is very important. The sander itself is specifically designed to perform best when used with dust extraction.

Sanding wouldn’t be very effective if a layer of sanding dust was permitted to accumulate between the sanding pad and the sanded surface. Festool sanders incorporate Airstream technology to help get the sanding dust away from the sanding surface as efficiently as possible. With traditional sanding pads, dust accumulates at the center of the disk because it can’t get drawn out by the vacuum. Airstream technology creates airflow from the center of the pad radially outward to the dust extraction holes (as well as the normal airflow from the perimeter). This keeps the dust clear and allows the sanding grit to work on the sanding surface.

With HEPA filtration, auto-start, and variable speed, Festool dust extractors are ideally suited for use with Rotex sanders. The variable speed is of particular importance because it permits adjusting the power of the vacuum for the optimal performance of the sander. Too high of a vacuum pressure can suck the sander tight to the workpiece, which reduces sanding quality and diminishes controllability of the sander.

For best results, the power of the vacuum should be reduced below maximum. A sign that the vacuum is too strong is a lack of controllability, with excessive jumping and jitter in the movement of the sander across the workpiece. Having the vacuum set too high will also increase the depth of sanding scratches, and make them more difficult to remove through the higher sanding grits. The optimal vacuum power will vary depending on the size of the sander and even the coarseness of the sandpaper, with finer grits needing less power.

1. To use the dust extraction system, slide the vacuum hose over the dust collection port as described on page 14.
2. Plug the sander into the electrical receptacle on the front of the dust extractor, and turn the power switch to “Auto”.
   ▶ When the power switch is in the manual or off position, the electrical outlet will not have any power.
3. Turn the speed control dial counterclockwise to reduce the power of the vacuum.
Choosing Hand Positions

While it may sound trivial on the face of it, how you hold the sander plays a pivotal role in the optimal performance of the sander. Balance, control, and comfort are the keys in deciding what hand positions work best for you. It is recommended to spend some time practicing and refining your handhold positions to suit your needs. They will vary from user to user, but the information below presents the most common starting point for many users.

The basic handhold positions are one hand forward and one hand aft, with the forward hand providing the majority of the control over the sander. The rear hand provides slight guidance and balance to the sander. A grip near the power cord works best for this.

The forward hand provides the majority of the control and a majority of the balance. This may be over the top of the motor or in front of the motor, with the front of the motor being slightly more preferred by most users.

These hand positions provide the greatest separation of your hands from the front to rear of the sander. This separation is what results in greater control of the sander and makes it easier to avoid tilting the sanding pad against the sanding surface.

When experimenting with different hand grips, use varying sandpaper grits and both modes of the sander. The goal is to hold the sander in such a way that balance and control are achieved, which results in the smoothest motion of the sander as you move it about the workpiece. Here are some signs that your grip on the sander is not balanced:

► Uneven resistance to movement: If the sander resists more in one direction than the opposite direction, it is a sign that you are slightly tilting the sander.

► If you experience excessive jumping and jitter, it means your grip is not balanced, you’re moving too fast, and you are applying too much down force to the sander.

Working With Sanding Grits

Generally speaking, the sanding process begins with the coarsest grits and progresses up to the finer grits. However, not all sanding tasks are the same. So choosing which grits to use will vary depending on the task. The adage of progressing through the grits holds true for nearly all sanding, but where to begin and where to end isn’t always clear.

While the coarsest grits provide rapid material removal and leveling, it isn’t always desired to begin sanding with the coarsest grit available. Avoid starting with too coarse of a grit. For example, when working with pre-planed lumber, there should be little need to use a coarser grit that 120 unless there is the need for joint-leveling. Even with joint-leveling, only a slightly coarser grit may be called for, with coarser grits reserved for joint leveling of wider panels.

Similarly, the highest grit chosen should be commensurate with the type of material and surface finish desired. The grit size should be consistent with the grain size of the material. Very high grits should be used for achieving a high gloss surface on paints, finishes, and plastics. However, because the grain size of wood is much larger than man-made materials, the highest (unfinished) sanding grit should be much more limited.

When sanding bare wood in preparation for applying most surface-build finishes, a sanding grit of approximately 220 grit should be considered the maximum, or even slightly lower for very high-build finishes. On the other hand, for non-build finishes or when the bare wood is the final finish, then higher grits may be called for. Using too high of a grit will tend to burnish the wood. With some non-build finishes or for bare wood, this is desired. However, for most surface-build finishes, burnishing can hinder finish penetration of the surface.

For colorants, and especially pigmented stains, the higher the bare wood sanding grit, the less the colorant will penetrate the wood. In some cases this can even lead to a loss of grain definition in the final finish. However, this can also be used to an advantage for controlling the intensity of a colorant, by using a coarser grit for a darker intensity and a higher grit for a lighter intensity.

The purpose of progressing through the grits from coarse to fine is so that each successive grit is aggressive enough to remove enough material to remove the scratches of the previous grit, while only leaving smaller scratches itself. This is most apparent in the coarser grits where the grit scratches are deeper.
Sanding Techniques

Establishing Optimal Sanding Pressure

The amount of downward force applied to the sander will have a varying impact on how aggressive the sander will perform, but also on the controllability and finish level too. More downward force will make the sander operate more aggressively, but it will also tend to make the sander more difficult to control and reduce the quality of the finish. The general rule for any rotational type sander is to keep minimal downward force on the sander and let the sander do the work on its own.

The primary sign that you are applying too much down pressure is that the sander will lurch and jitter as it moves across the sanding surface. When this happens, reduce the sanding pressure, which even includes lifting the sander a little bit when necessary.

In random orbit mode, anything that diminishes the “randomness” of the pad rotation increases the occurrence of visible scratches. Initial intuition may suggest that slowing down the pad rotation is good, but the opposite is true. If the pad is not freely spinning, then the motion is not random, and too much down force is being applied to the sander.

In Rotex mode, by their nature, the sanders will be more difficult to control because different parts of the sanding pad will be operating in a cross-grain direction at different times. This is what give the sander its rapid material removal rate. So in Rotex mode, the sander will expectably have more jitter, especially with coarser grits.

**NOTE:** The effect of the vacuum created below the sanding pad from the dust extractor will add some downward force to the sander. It is important to reduce the power of the dust extractor so it is not applying too much down-force on the sander.

Sanding Pattern and Movement

One key to achieving a quality sanded finish is to establish an effective and smooth sanding pattern for moving the sander across the workpiece. Different patterns and speeds of motion will be optimal for different material types and even different grits of sand paper.

Because the sanding pad is moving in a clockwise dual motion (both in Rotex and random orbit modes), a general clockwise sanding pattern produces the least resistance to movement, and therefore, the smoothest pattern. As much as possible, make your motions and direction changes in a general clockwise direction.

For homogenous materials that do not have a discernible grain direction, such as metals, plastics, solid surface, and finishes; a circular pattern may be best. These types of patterns do not have a stopping or sharp transition point where the direction of the sander is abruptly changed.

For materials with an inherent grain structure such as wood and even some plastics, the sander motion should be kept generally in-line with the grain as much as reasonably possible. This leads to a linear back and forth motion, but the transitions for changing direction should be as smooth as possible without an abrupt stop/start.

**Example, Solid Surface Joint Leveling:**
Solid surface material has a non-oriented grain structure. It is therefore best to sand in a generally circular pattern. For initial leveling, sanding emphasis should be applied to the higher of the two surfaces, but not to the complete exclusion of both surfaces. This calls for an oval pattern overlapping onto the lower surface, yet focused on the upper surface.

As the joint becomes more level, the pattern should switch to perpendicular to the joint in tight overlapping loops.

**Example, Wood Panel Joint Leveling:**
In a similar fashion, initial leveling should focus on the higher surface, but not to the exclusion of the lower surface. Some overlap across the joint is required to avoid the likelihood of creating a slight depression on the high surface just inside the joint. As leveling progresses, the sanding pattern should become more balanced across the two pieces.
Example, Faceframe Leveling:
While the temptation may be to focus sanding directly over a frame’s joint, this should be avoided. To reduce the chance of a depression at the corner, a general L-shaped pattern should be used extending well beyond the joint. For more emphasis at the joint, a mixture of both short and long strokes should be used, but never just stationary over the joint.

Once the joints are leveled, the entire frame should be sanded, but this too should have a pattern. While not as critical, the general approach is to sand those frame members which are captive between other frame members first. In other words, sand the horizontal rails first, followed by the vertical stiles.

Example, Frame to Carcase Leveling:
Leveling the joint between a solid wood frame and a plywood veneer carcase is one of the most precarious sanding operations due to the likelihood of sanding through the thin veneer. The key is to evenly remove enough of the solid wood frame without sanding into the veneer.

While the temptation may be to sand the frame with only the edge of the sanding pad, this will invariably result in a slight bevel to the frame. Instead, keep the center of the pad centered over the frame, but held as perfectly parallel to the surface as possible. Sand the frame flush, and then begin working out into the veneer surface. Here are some tips to safely achieving flush joints:

► Using a soft, wide-lead pencil, scribble across the veneer near the joint. As long as the pencil lines remain, you will not be sanding through the veneer.
► Use the firmest sanding pad available to avoid rounding the edge of the frame.
► Avoid using too coarse of a disk, as the veneer can be damaged too quickly if you tilt the sander.
► Operate the sander with authority and firm pressure to maintain maximum control, but reduce the pressure as the joint gets closer to flush.
► Avoid the tendency to tilt the sander away from the veneer, as this will create a bevel on the frame.
► As the joint gets close to flush, expand your strokes to include more of the veneer surface, and continue sanding until the pencil marks are gone.
Maintenance and Adjustment

**WARNING!** Any maintenance or repair work that requires opening of the motor or gear housing should be carried out only by an authorized Customer Service Center (see your dealer for information on locating a service center).

**WARNING!** To reduce the risk of electrocution or other personal injury, always unplug the tool from the power supply outlet before performing any maintenance or repair work on the tool.

**NOTICE:** Do not use compressed air to clean the motor housing of the tool, as you could inject foreign objects into the motor through the ventilation openings.

**NOTICE:** Certain cleaning agents and solvents are harmful to plastic parts. Some of these include, but are not limited to: Gasoline, Acetone, Methyl Ethyl Ketone (MEK), Carbonyl Chloride, cleaning solutions containing Chlorine, Ammonia, and household cleaners containing Ammonia.

Routine Maintenance

Dust and debris from some materials can be extremely abrasive and cause components within the sander to wear prematurely. It is important to keep moving parts cleared of abrasive dusts.

- As a general rule, keep the sander clean of all dust and debris. Even soft-wood dust can be abrasive over time.
- Examine all moving parts for dust and debris.
- Sanding pads are considered a wear item and will need to be replaced periodically. Replace the pad when it no longer holds sanding disks in place.

Motor Brush Replacement

Motor brushes provide electricity to the spinning motor armature, and will wear over time. The brushes are designed to disconnect power to the motor when they have warn beyond their usable life. If your sander stops working, it is likely that the brushes have warn and need replacement. Contact Festool for replacement brushes.

**RO 90 Motor Brushes**

**WARNING!** To avoid the risk of electrical shock, make sure the sander is unplugged from power.

1. Unplug the sander from power.
2. Remove the 4 T10 Torx screws that secure the brush cover, and remove the cover.
3. Using a small tweezer, carefully lift the pressure spring off the brush and rest it on the adjacent post.
4. Using tweezers or needle nose pliers, carefully remove the wire terminal from the spade lug.
5. Slide the brush out of the brush holder, and repeat for the second brush on the other side of the motor.
6. Install the new brushes by reversing the procedure. Don’t forget to move the pressure spring back over the brush.
RO 125 Motor Brushes

**WARNING!** To avoid the risk of electrical shock, make sure the sander is unplugged from power.

1. Unplug the sander from power.
2. Remove the T15 Torx screw that secures each brush cover (one on either side of the motor), and remove the covers.
3. Using a small tweezer, carefully lift the pressure spring off the brush and rest it on the adjacent post.
4. Using tweezers or needle nose pliers, carefully remove the wire terminal from the spade lug.
5. Slide the brush out of the brush holder, and repeat for the second brush on the other side of the motor.
6. Install the new brushes by reversing the procedure. Don’t forget to move the pressure spring back over the brush.
RO 150 Motor Brushes

**WARNING!** To avoid the risk of electrical shock, make sure the sander is unplugged from power.

1. Unplug the sander from power.
2. Remove the dust port as described on page 12.
3. Remove the T15 Torx screw that secures the brush cover, and slide the cover off the back of the sander handle.

4. Remove the switch linkage that connects the green power switch to the electrical switch inside the sander.
   a. Lift the linkage yoke off the pin on the electrical switch.
   b. Tilt the linkage as shown, and slide it off the green pin on the power switch.

5. Using tweezers or needle nose pliers, carefully remove the wire terminal from the spade lug.
6. Using a T15 Torx driver, remove the mounting screw that secures the brush holder to the motor housing.
7. Lift the brush and brush holder out of the sander.
8. Repeat for the second brush and brush holder on the underside of the motor.

9. If the replacement brushes do not come pre-mounted in brush holders, install the brushes in the existing brush holders as shown.
   - Make sure the wire passes through the body of the brush holder.
   - Make sure the pressure spring is pressing against the top of the brush.
## Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Causes</th>
</tr>
</thead>
</table>
| Motor does not start                                 | ► Check that the cord is properly plugged into an outlet.  
► Make sure the Plug-it connector is properly inserted and fully tightened.  
► Make sure the outlet has power. Check the circuit breaker or try another outlet.  
► If used with a Festool dust extractor, make sure the selector switch is pointing to "Auto". The auxiliary outlet on the dust extractor has power only when the selector is at Auto.  
► Inspect the power cord (including extension cords) for damage or missing prongs.  
► The motor brushes may have worn and need replacement.  
► Please note that the power switch is a sealed pneumatically actuated switch that is not prone to dust ingestion. Do not attempt to open the switch. |
| Sander runs sporadically or looses power             | ► Make sure the Plug-it cord is properly tightened. Inspect the plug and tool power inlet for signs of overheating. If signs of overheating are present, discontinue use and have the tool serviced. If the Plug-it cord shows signs of overheating, do not use the cord for other tools, as it can damage the inlet of the other tool. |
| Sanding disk doesn’t stick or flies off during sanding| ► Make sure the disk is firmly pressed onto the pad.  
► To make sure it isn’t a defective disk, try using a different disk.  
► Make sure the bottom of the pad is clean and free of debris.  
► The sanding pad is a wear item and may need replacement. Sanding generates heat, and heat will degrade the Stickfix hooks on the sanding pad. Avoid operations that generate excessive heat, such as holding the sander motionless on sharp edges. |
| Deep scratches in finish sanding                     | ► The most likely cause is that scratches from a coarse grit paper are too deep for the current/final grit paper. Make sure you don’t skip a grit in progression.  
► If switching from Rotex to random orbit mode, stay with the same grit.  
► Rework the finish with a grit appropriate to remove the scratches and progress to finish grit.  
► Avoid beginning with too coarse of a grit for the need. Begin sanding with a grit only coarse enough to meet the smoothing and leveling needs of the project. |
| Excessive swirl marks                                | ► Make sure the dust collection vacuum is set for reduced power. Too much vacuum will apply too much pressure to the sanding surface.  
► Reduce your sanding pressure. Too much sanding force reduces the freewheel motion of the sanding pad, which results in sanding swirls.  
► With the sander turned off, inspect the freewheel motion of the sanding pad. If the freewheel seems too stiff, apply a thin lubricant such as paste wax between the pad brake and sanding pad. |
| Sander jumps or is hard to control                   | ► Make sure you are holding the sander level on the work surface. Tilting the sander or even applying uneven down-force can cause it to jump.  
► Reduce sanding pressure and make sure the dust collection vacuum is running at reduced power.  
► Inspect the sanding pad for proper installation. A loose or misaligned sanding pad can result in runout in the orbital motion. |
Tools for the toughest demands

Festool USA
400 N. Enterprise Blvd
Lebanon, IN 46052
www.festoolusa.com

Service Questions:
800-554-8741

Application Questions:
888-337-8600