



Owner's Manual for 1/6 HP Series SR Flexible Shaft Power Tools

2-Year Warranty

**See Insert with Special
Instructions for Square Drive
Heavy Duty Series SRH Models**

FOREDOM®

**Visit www.foredom.net
to view videos on this product**

For Your Own Safety

- **Please read this Assembly, Operation, and Service Manual before operating your Foredom power tool.**
- **Always wear eye protection while using power tools.**
- **Only use accessories rated for use at 18,000 RPM or higher.**

Contents

Safety Instructions	2-4
Series SR Motors and Speed Controls	4-7
Assembly Instructions	5-6
Assembly and Adjustment of Shaft, Sheath & Handpiece	5
Connecting Foot Controls	6
Connecting Table Top Dial Speed Controls	6
Operation – General Guidelines	7
Freedom Handpieces and Rotary Accessories	8-10
Attaching Accessories to Handpieces	9
Handpiece Lubrication	10
General Accessory Recommendations	11-12
Maintenance Procedures	13-14
Routine Motor Cleaning and Lubrication	13
Replacement of Worn Shafts and Sheaths	14
Replacement of Motor Brushes	14
Repair Service	15
Recommended Spare Parts and Supplies	15
Motor Hangers	15
Limited Warranty	16
Contact Information	16

Safety Instructions

Before using your Freedom power tool, please read safety instructions. They are for your protection and should always be followed to reduce the risk of personal injury or damage to the tool.

- **Always** wear proper eye and face protection. Wear safety glasses or face shields whenever you operate a Freedom or any power tool to prevent serious eye or face injuries.
- **Secure the work piece or item that you are working on** in a vise or other work holding device. Holding it with your hand can result in serious hand injury.
- **Always use a proper dust collection system or wear a respirator** to prevent the inhalation of dust particles, polishing compounds, or other debris into the lungs.
- **Do not wear loose fitting clothing or jewelry.** Loose clothing or jewelry can become entangled in the rotating accessory. Do not wear items such as neckties, necklaces, or bracelets when operating power tools. Be sure to **tie back or secure long hair.**

How-To Videos on www.freedom.net

Click on our homepage Video Library Link where Freedom's National Sales Manager shows you the basics of using and maintaining flex shaft machines.

Click to View:

1. Intro & Proper Set-up
2. Safety Guidelines
3. Handpieces & Accessories
4. Shaft and Sheath Maintenance – Grease and Replace
5. Motor Maintenance– Remove Dust, Replace Motor Brushes

There are many other product-related videos throughout our website.

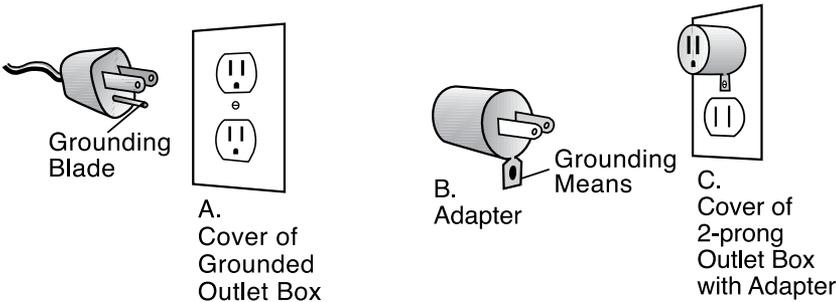
We suggest that you take the time to watch these since they help to clarify product features and uses.

Visit Freedom on www.youtube.com

- **Secure the power tool to motor hanger or work surface.** Flexible shaft power tools can “jump” at start up or vibrate during operation. The tool should be properly secured in order to prevent it from vibrating off of the motor hanger, work bench or wall.
- **Never use any accessory at speeds above its maximum rated speed.** When properly used, all of Freedom's accessories can be operated at the speed ratings listed in the Freedom Accessory Catalog or specified on kits and packaging. **Always** find out the manufacturer's speed rating before using accessories other than those from Freedom.
- **For added safety and comfort** while using this power tool for carving or other applications, it is recommended that you wear a heavy canvas or leather apron. It will protect you from dust, debris and chips as well as help prevent injury if the handpiece slips off the workpiece. It will also help prevent loose clothing from getting caught in a rotating cutter, bur or other accessory.

- **Never** wear open shoes or sandals. Use footwear that is tough enough to protect your feet from falling tools.
- **Never use or continue to use any accessory which appears to be damaged, loose, vibrating, or out of balance.** Inspect each accessory for cracks or flaws before using it. Avoid knots, imperfections in wood or metal objects like nails, which could damage or catch the accessory.
- **Always** insert the shank or arbor of an accessory or mandrel into the collet or chuck of the handpiece as far as possible in order to provide proper support and tighten the collet or chuck securely.
- **Never** use excessive side pressure which may bend or break the shank or arbor of an accessory. Let the speed of the accessory do the work.
- **Do not** stall the motor by jamming or using excessive pressure on the accessory. This can result in damage to the motor or flexible shaft.
- **Never operate the motor with the outer sheath removed from the flexible shaft.**
- **Always disconnect** the power cord before servicing the motor or removing the flexible shaft or sheath.
- **Never** operate your power tool during a perceptible power decrease. Turn power tool off and do not use until power is fully restored.
- **Use proper grounding procedures.** This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 volts, it has a plug that looks like sketch A below. An adapter (sketches B and C) can be used for connecting plugs as shown in sketch A to 2-prong receptacles. The green colored rigid ear, lug, etc., extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box. **Some jurisdictions, including Canada, prohibit the use of 3 to 2 prong adapters. Where prohibited, they should not be used.** Use only 3-wire extension cords that have 3-prong grounding type plugs and 3-pole type plugs and 3-pole receptacles that accept the tool's plug. Always disconnect the power cord before servicing the tool. Never use in an area where flammable vapors are present.

Replace or repair worn cord immediately.



Never change motor direction while the motor is running.

Changing direction while motor is running can damage the motor or flexible shaft or lead to premature wear. To turn motor off, remove foot from foot pedal speed control, or turn dial speed control to “off” position, and set rocker switch to “off” (center) position on motor.

Never change motor direction while the motor is running.

OFF – no rotation.

FORWARD – counterclockwise shaft rotation. Forward is going to be the most commonly used setting. Right-handed people will get the most control in the forward direction.

At Foredom we define motor rotation this way: Forward motor rotation means that the motor is turning an accessory (bur, bit, drill, cutter, etc.) counterclockwise when holding the handpiece upright in your hand and you are looking down on to the front of the accessory. When the handpiece/accessory is applied to the workpiece, your viewpoint changes to the back end of the handpiece and accessory and the forward rotation direction can be described as clockwise.

Forward Motor Rotation

- **ONLY use Chisel or Hammer handpieces or Angle Grinder attachment for H.30® handpiece in Forward Rotation. Using Chisel or Hammer handpieces or Angle Grinder attachment in reverse can damage the handpiece, attachment, flexible shaft, or motor and may cause injury.**
- **Use the forward motor direction ONLY for fluted burs, drills and cutters.** Most will cut efficiently only when turning in this direction.
- **Many mandrels have right-hand threaded arbor screws which will unscrew in the reverse direction.**
- **Dust and debris** flies away from the user when operated in **forward** in the **left hand**.
- Whether you are right or left handed or

operate in forward or reverse, precautions taken against dust and debris **are always necessary and important.**

- **Always securely tighten chuck nut or chuck jaws of handpiece with wrench or chuck key so that it will not come loose in the reverse or forward operating directions.**



REVERSE – clockwise shaft rotation.

Advantages of Reverse Rotation

- Left-handed users will have better control in the reverse direction.
- For right handed use, dust and debris flies away in reverse.
- Alternating motor direction helps to extend the life of mounted abrasive points, buffs, brushes, sanding bands, and Typhoon® burs.
- Reverse helps with accomplishing symmetrical grinding and carving techniques.
- Reverse is good for “backing out” stuck drill bits.
- Alternating motor direction makes it easier and faster to polish metals.
- Be sure to use a mandrel with a left-hand threaded arbor screw.

Foredom® 1/6 HP Series SR Power Tools run at speeds up to 18,000 rpm

You have purchased a fine quality power tool which will perform a wide variety of tasks difficult to do with any other kind of power tool. Foredom power tools are manufactured to high standards of precision and performance and with proper use and regular maintenance will give you years of trouble-free performance. This manual contains instructions for the assembly, operation, and servicing of Foredom's 1/6 HP Series SR motors.



M.SR Hang-Up Style



M.SRM Bench Style
with built-in control



M.SRB Bench Style

A complete Series SR flexible shaft power tool consists of a motor, flexible shaft and sheath, speed control (foot or manual) and a handpiece. If you purchased a motor and control, a handpiece will also be needed to operate the machine. Locate and identify all components, parts and accessories you purchased before discarding the packing list and packing materials that came with your power tool.

Assembly Instructions

Always make sure your power tool is unplugged during assembly!

After identifying all the components of your power tool, assemble it in the following manner:

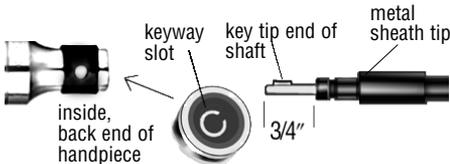
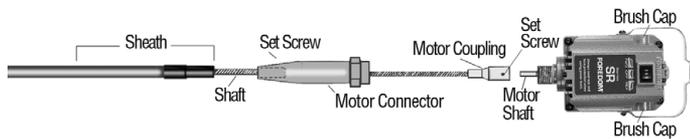
Assembly and Adjustment of Flexible Inner Shaft, Outer Sheath, & Handpiece

Proper assembly and adjustment of the key tip flexible shaft and sheath are critical for the correct operation of your Freedom power tool.

The exposed tip (handpiece end of the flexible shaft with handpiece removed) must extend 3/4" (19mm) beyond the sheath.



Important Note: The shaft and sheath should be checked and adjusted (if necessary) even if you received them assembled and attached to the motor!



Please follow these directions to assemble and adjust the shaft and sheath.



To check the shaft and sheath you must first remove the handpiece which is easy to do.

To remove:

- 1. First make sure your power tool is unplugged.** Simply pull the handpiece off the shaft and sheath with a firm grip.
- 2. With the handpiece removed, place the entire unit on a flat surface with the shaft and sheath extended straight.** Loosen the set screw on the motor connector. **Adjust the exposed tip (handpiece end) of the flexible shaft so that it extends 3/4" (19mm) beyond the sheath.** This is done by moving the sheath in or out of the motor connector (motor end). Shown below.
- 3. When the correct adjustment is made, re-tighten the set screw in the motor connector and re-attach handpiece onto the shafting.**



To Re-attach Handpiece: while holding the black colored metal outer sheath tip facing upward, turn on the motor so that it is running at about half speed **and then turn it off.** While the inner key tip is still rotating, grip the handpiece and push it onto the sheath tip with one firm motion until it snaps into place (shown at right). This procedure will align the key tip into the keyway slot (as shown at left). To verify this, insert and tighten an accessory into collet or chuck, turn on motor to low speed and observe that the accessory rotates smoothly.

Be sure to follow the grounding instructions on page 3 of this manual while attaching the speed control to a power outlet. Please note that the power cord on a foot or dial speed control, and NOT the motor power cord, plugs into an electrical outlet. Motors should not be plugged directly into an outlet.



Forward/ Off/Reverse
Rocker Switch on motor



Hold the handpiece securely before selecting the rotation direction and turning the motor to the desired "on" position.



3-prong
plug connects
to power outlet

socket
connector for
motor plug

Connecting the Foot Speed Control

The electrical specifications for your power tool are listed on the label on back of motor. It shows proper voltage and currents to use with your power tool.

A 115 Volt, 50/60 cycle (Hz) motor can be used with the models C.FCT-1 and C.SCT-1 foot controls on 115 Volt **AC current only**. The 230 Volt, 50/60 cycle (Hz) motor can be used with the models C.FCH-2 and C.SCH-2 foot controls on 230 Volt **AC current only**.

To connect the foot control to the motor, insert the 3-prong plug on the end of the motor power cord into the socket connector on the shorter power cord on the foot control. **With the motor fwd/off/rev switch in the "off" position**, plug the 3-prong plug on the longer power cord from the foot control into a proper 3-prong power outlet.

When your foot is NOT pressing the foot control, the motor should not be running.

Your foot must maintain steady contact with the pedal during operation. Holding the handpiece in your hand, put the motor fwd/off/rev switch in the desired "on" position, begin with a light touch, start out slowly and gradually increase the speed.

Finding the right speed for any specific task is a matter of experimentation and experience.

Hanging Motor Installation

M.SR Motors should be hung up about 30"–40" above the work surface and to the right of the work if you are right handed or to the left of the work if you are left handed.

Use a safety clip or hook like the one shown to prevent the motor from jumping or twisting off an open hook at start up or during use. Properly securing the motor will help to prevent injury to the user.

All ForeDOM motor hangers come with a safety clip (see page 15). If an "open hook" is used be sure to secure the motor to it with wire or heavy tape.



Connecting the Table Top Dial Speed Control

The motors can also be used with the C.EM-1 (115 Volt) or C.EMH-2 (230 Volt) dial speed control on AC current.

Fuse compartment and spare fuse are located below detachable power cord receptacle



3-prong plug connects to power outlet

outlet for motor plug

1. Plug the 3-prong power cord from the motor into the the short cord on the dial control.
2. With motor fwd/off/rev switch in the "off" position and the dial control indicator also in the "off" position, connect the detachable power cord to the dial control outlet on the back and into a proper 3-wire outlet (see page 3).
3. Holding the handpiece in your hand, put the motor fwd/off/rev switch in the desired "on" position, begin with a light touch, start out slowly and gradually increase the speed.
4. Overloading the motor may blow the fuse. The fuse can be found below the detachable power cord receptacle.

Operation and General Guidelines

Always wear proper eye and face protection when operating a Foredom® power tool.

Read all the safety instructions in this manual before operating your Foredom Power Tool. Proper eye and face protection must be worn to protect you from injuries caused by flying debris, chips, or sparks which might result from the work being done.

It is possible to use rotary or chisel handpieces not made by Foredom with your Foredom flexible shaft power tool. However, this is not recommended since their function and safety cannot be assured by Foredom.

Your Foredom motor may be operated in a vertical or horizontal position, but it should not be enclosed or confined so as to restrict air circulation. If the motor is hung up above a workbench, be sure it is fastened securely to the wall or motor hanger. **The motor may develop a high operating temperature (up to 100°F + ambient) after prolonged use, and it will be too hot to hold. This will not harm the motor which is designed to operate at this temperature for prolonged periods.**

Do not force the tool

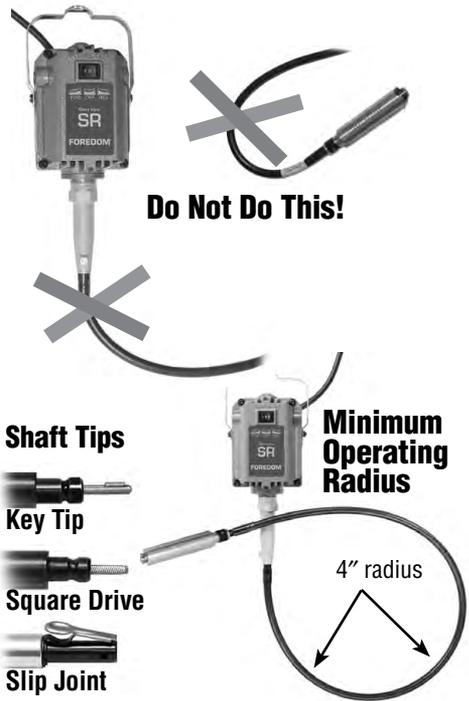
Let the speed of the tool do the work. Avoid using too much pressure. Generally, slower speeds are used for rougher, heavier work or when greater control over the accessory is required for precise, delicate work. Higher speeds are used for buffing, cutting and polishing. Read Accessory Recommendations on pages 11 and 12 of this manual.

Voltage Decreases

Never operate a power tool during a perceptible power decrease. Turn off tool and unplug until full power is restored.

Wait for motor to stop rotating before switching between forward or reverse.

To turn motor off, remove foot from foot pedal speed control, or turn dial speed control to “off” position, and set rocker switch to “off” (center) position on motor.



Do not bend shaft and sheath at tight angle!

When operating your Foredom tool be careful not to bend the flexible shaft too much at either the handpiece or motor shaft connections. Shafts and sheaths last longer when they are used without sharp bends. If used at angles or loops, wear will occur at the points of greatest friction. Excessive heat and wear will occur if the bend is too great.

Torsional Breaking Point:

Key Tip (Standard) Shaft	24in.-lb
Square Drive (Heavy Duty) Shaft	50in.-lb
Slip Joint (European) Shaft	24in.-lb

Follow these guidelines for trouble-free use: a 4" or larger radius, as shown, should be maintained for shafts on all motors. There is no way to avoid ultimate wear and under normal conditions a flexible shaft machine may require several replacement shafts and sheaths during its lifetime. (Follow shaft and sheath assembly instruction in the Assembly section of this manual.)

FOREDOM®
Handpieces for Key Tip Shafts
 (burs not included)



H.8



H.8D



H.10



H.10D



*** H.15**



*** H.15D**



H.18D



H.18D



H.20



H.20D



H.25



H.28



H.30®



H.43T



H.44T



*** H.50**

*** Never run Handpieces H.15, H.15D or H.50 in reverse rotation.**

New Adapters



HP771 Key Tip handpiece to Slip Joint shaft



HP770 Slip Joint handpiece to Key Tip shaft



HP775 Duplex adapter for Key Tip handpiece and shaft



HP776 Duplex adapter for Slip Joint handpiece and Key Tip shaft

If you have purchased a SRH motor, see insert for special Square Drive Handpieces for use with Series SRH motors.

Attaching Accessories to Handpieces

Directions for attaching accessories to handpieces vary according to the type of handpiece being used. Locate the model number of your Freedom handpiece from the photos on page 8.

Always wait for the motor, flexible shaft and accessory to come to a complete stop before changing an accessory. (Handpieces listed in brackets are for use with Series SRH models only.) Attach the accessory according to the following:

Collet Types –

8, 8D, 25, (25H), 28, 28SJ, (28H), 35, 35SJ, 43T, 44T, 44TSJ, & (44HT) Handpieces:

A collet is an interchangeable slotted cylinder inserted tightly into the interior of a handpiece to hold a bur or other rotary accessory. The diameter size of the collet must match the diameter of the accessory's shank.

General Directions: Be sure to use the correct shank size. The correct shank will fit snugly inside the collet. **Caution: Never tighten a collet unless an accessory has been inserted.** Tightening an empty collet or inserting an accessory which is too small or too large may damage the collet.

8, 8D, and 8SJ Handpieces:

To change a collet: slide back the chuck guard and use one wrench to hold the spindle and the other to unscrew the chuck nut by turning counterclockwise. Remove chuck nut to expose collet and pull collet out of handpiece shaft. Slip new collet in place and tighten chuck nut with wrenches.

To insert accessory: insert shank as far as possible into the collet. Tighten chuck nut with wrenches. Test for a secure hold by pulling on accessory. Remove wrenches.

To release an accessory: follow the same steps. Accessories can be released when chuck nut is loosened. If accessory does not run true, loosen chuck nut, rotate accessory, and retighten.

25, (25H), 28, 28SJ, (28H), 43T, 44T, 44TSJ & (44HT) Handpieces:

To change a collet: 1. Insert pin provided into the pilot hole and through the spindle hole (turn spindle to align holes). Apply wrench and unscrew chuck nut by turning counterclockwise.

2. Remove chuck nut to expose collet.

3. Pull collet out of handpiece spindle.

4. Slip new collet in place and screw on chuck nut.

5. Remove pin.

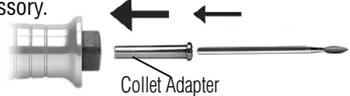


25, (25H), 28, 28SJ, (28H), 43T, 44T, (44HT), and 44TSJ Collet Handpieces:

To insert or change accessories: insert pin provided into the pilot hole and through the spindle hole (turn spindle to align holes). Loosen chuck nut slightly with wrench provided. Insert shank of accessory into collet. Tighten chuck nut with wrench, keeping pin in pilot hole. Test for a secure hold by pulling on accessory. Remove pin.

Collet Adapters for 8, 8D, 25, (25H), 28, 28SJ, (28H), 35, 35SJ, 43T, 44T, 44TSJ, & (44HT)

Handpieces: let you 'step down' to a smaller shank size accessory.



Part No.	Collet Size	Accessory Shank Size
HPL4-3233	3/32" →	1/16"
HPL4-3234	1/8" →	1/16"
HPL4-3235	3mm →	3/32"
HPL4-3236	1/8" →	3/32"
HPL4-3237	3mm →	1.6mm

Chuck Type – 30®, 30SJ, and (30H)

Handpieces: These handpieces have a geared 3-jaw #0 chuck. Open chuck jaws as far as necessary with key provided. Insert shank of accessory fully into the chuck. Tighten jaws with chuck key until accessory is secure and centered. If accessory does not run true, reopen jaws, rotate accessory and retighten. To release accessory, simply reopen chuck jaws with key and pull out accessory.



Hammer Type – 15, 15D, & 15SJ Handpieces:

These handpieces have a threaded spindle. Thread anvil or stylus into threaded spindle as far as it will go with clockwise motion. Insert pin provided into cross hole in anvil or stylus. Tighten and remove pin. To release accessory, insert pin into the cross hole and unthread. Use this handpiece and threaded accessories in forward rotation only.

Quick Change Type –

10, 10D, 18, 18D, 18SJ, 20, 20D and 20SJ, Handpieces: Keep an accessory in these handpieces at all times, during both operation and storage, or damage to the collet and handpiece may result. These handpieces accept only 2.35mm (3/32") shank accessories.

To minimize repetition, we sometimes drop prefixes associated with Foredom part numbers. Officially, Motors begin with M. (M.SR), Handpieces with H. (H.30®), and Speed Controls with C. (C.FCT).

Quick Change Type continued –
10 and 10D Handpieces:

To insert bur, turn lever 180° clockwise towards the back (shaft connection end) of handpiece. Insert or change a 2.35mm (3/32") shank bur and turn lever 180° forward counterclockwise. Make sure lever is completely locked into the forward position. **Never change burs while handpiece is running.**

18, 18D, and 18SJ Handpieces:

These handpieces have a lever on the side of the handpiece. Push the spring loaded lever down to open the collet and release the shank of accessory (2.35mm or 3/32" only). Insert accessory with the lever held down. **Never push lever down while handpiece or flex shaft are rotating.**



Attaching Accessories to Handpieces
Quick Change Type — continued

20, 20D, 20SJ Handpieces: These handpieces have a lever action collet release mechanism. Wait for the motor, flexible shaft, and accessory to come to a complete stop before turning the lever to open the collet and remove or insert accessory (2.35mm or 3/32" only). Turn lever 90° to left or right to open collet and change an accessory. To close the collet turn the lever back to the position parallel to the handpiece.



Chisel Type —
50 and 50C Handpieces (50C includes set of six chisels):

Inserting a chisel into this reciprocating handpiece should be done while the motor is in the "off" position, or with the handpiece disconnected. Loosen the locking nut with the 12mm spanner wrench provided by unscrewing it counterclockwise. Insert the tang fully into the plunger shaft. Tighten the locking nut clockwise until tool is held securely. Do not over tighten. Use this chisel handpiece in forward rotation only.



Handpiece Lubrication

(See page 8 for handpiece photos.)

8, 18, 20, 25, (25H), 28, (28H), 30®, (30H), 43T, 44T and (44HT):

These handpieces have been permanently lubricated. Their greased-shielded ball bearings should absolutely not be lubricated. (Handpieces listed in brackets are for use with Series TXH and LXH models only.)

10 and 10D: Lubrication should not be required for the first 2–3 months of continuous use. Then, approximately every two weeks of use, lubrication of the front and back ends of the handpiece is required. Follow the detailed instructions that come with your handpiece.

8D, 10D, 15D, 18D and 20D Handpieces with Duplex Spring Connections: Approximately every 20 hours of operation apply 1 or 2 drops of Foredom oil (Part No. MS10005) into the hole in the duplex spring collar next to the sheath connector. This will provide sufficient lubrication for both the duplex spring connection and the handpiece spindle.

15 and 15D: Clean off any dirt to prevent foreign matter from falling inside the handpiece. Put two drops of Foredom oil into the oil hole in the side of the housing. Run the handpiece slowly to distribute the oil. Lubricate every 100 hours of use.

50 and 50C: After every 200 hours of use you should clean and lubricate this handpiece. The old grease must be cleaned off of the interior cam chamber and replaced with new lubricant (Part No. MS10008). Follow the detailed instructions that come with your chisel handpiece.

**Visit www.foredom.net
How-To Videos on Foredom flex shaft
set-up, maintenance and operation!**

General Accessory Recommendations

Foredom's wide assortment of rotary accessories makes your flexible shaft power tool very versatile. Use it for grinding, sanding, carving, engraving, brushing, cutting, buffing, and polishing on virtually any material. The Foredom Accessory Catalog offers the right accessories for your specific applications. Accessories may be purchased from your local dealer or directly from Foredom.

Always let the speed of the power tool do the work.

Avoid forcing the tool or applying too much pressure.

Experience will help you choose the right speed for the work you are doing. It's always a good idea to practice on a scrap piece of the same material you plan to use to determine the best accessories and speeds.

Always follow the manufacturer's RPM or speed recommendations when selecting accessories.

Your motor is supplied with a variable speed control that allows you to operate it at the most suitable speed for each job. The motor has a maximum speed rating of 18,000 RPM.

Always use an accessory which has the same or a higher speed rating than your tool.

Using an accessory with a lower speed rating can result in serious injury.

Rotary Accessories and Motor Rotation:

Running the motor in forward and reverse can help to extend the life of mounted abrasive points, Typhoon® burs, buffs, and brushes.

Use only the forward motor direction for fluted burs and cutters. Most will cut efficiently only when turning in this direction.

Abrasive Points, Wheels, and Discs

Use **Aluminum Oxide** (red color) for fast cutting on high-tensile, tough materials such as steel and malleable iron. Also use on glass and porcelain, etc.

Aluminum Oxide (white color) points have an extremely fine grit for producing a fine, high finish on high-tensile materials including stainless steel and glass. **Rubber Bonded Abrasive Wheels** are used for removing rust and for polishing with various grits. For best results, use finer grits for finishing at high speeds and coarser grits for stock removal at lower speeds. **Abrasive Discs** are for grinding, smoothing, and cleaning glass, high speed steel, and other tough materials.

Ruby Carvers have ruby crystals firmly bonded to a metal frame. These long lasting abrasives provide a smooth finish on hard materials such as steel, porcelain, glass, acrylic, soft and precious metals and wood.

Scotch-Brite™ Radial Bristle Discs from 3M have thin flexible plastic bristles that get into hard to reach areas on flat and curved surfaces. Use on metal, acrylic, plaster, ceramics and wood without the need for compounds. These long lasting abrasives come in many size diameters and grits.

Unique CeramCut Blue Stones are made from a mixture of special man-made ceramic grain and aluminum oxide bonded together. The ceramic provides a faster cutting action and is more durable so burs hold their shape longer than standard abrasives. They are ideal for use on any hard metal such as steel, stainless steel, chrome cobalt, platinum and titanium, as well as on wood.

Unique V Stones have extra hard and long lasting vitrified aluminum oxide and ceramic grain with a special glass bead binder that makes them extremely long lasting, cool running and very aggressive — 40 to 60 grit. They work on the same materials as CeramCut Blue Stones, but much more aggressively.

Unique CW Ceramic Impregnated Polishing

Wheels are used for smoothing and polishing precious metals including platinum, gold, and silver. They also work on titanium, chrome cobalt, and all hard alloys. Wheels are 7/8" in diameter and come in six grits.

Burs and Cutters

Vanadium Steel Cutters are suitable for all materials except hardened steel and glass. They are used for cutting grooves and countersinking in soft materials, carving and hollowing woods, slotting and grooving woods, plastics, etc. **Steel Cutters** are good for shaping, grooving, slotting and cutting in wood, plastic and soft metals. Use **Carbide Burs** on wood, plastic and tough alloys. Carbide is generally referred to as the "hardest man-made metal".

High Speed Fluted Burs are used for fine detailing work on metal and other hard materials. Generally use medium speeds for stock removal and higher speeds for finishing work and when using smaller points.

Cut-Off Wheels are used to cut off, groove, and trim metal, wood and ceramics.

Unique Typhoon- Carbide Burs provide very fast and aggressive material removal. Made for use on soft and hard woods, diestone, and plastics (do not use Typhoon burs on metal). They have aligned teeth that leave a smoother finish than other types of non-fluted tungsten carbide burs.

Duragrit- Carbides are coated with tungsten carbide grit. Edges stay sharp and are thin enough for cut-off applications.

General Accessory Recommendations continued

Drills

Cobalt Steel & Diamond Plated Step Drills are used to drill wood, precious metals, mild steel, bone, and mother of pearl. **Cobalt Steel, Diamond Plated & Diamond Coated Twist Drills**, made of wire gauge steel, can drill extremely fine holes in stone, ceramics, tile, glass, and hard metals.

Plated Diamond Points & Discs are used to remove stock from extremely hard materials such as tungsten and tantalum carbide cutting tools, dies and molds, broaches, and for grinding and pre-polishing synthetic jewels and precious metals, fiberglass, reinforced plastics, PVC and ceramics.

Sanding Drums, Bands, and Discs

These are used for removing rust, smoothing rough surfaces and for sanding jobs on wood, plastic and metal. (Avoid using too much pressure which will cause clogging or a build-up on the work surface.) For best results, use medium speeds for coarser grits and larger diameters. Use higher speeds for finishing work or with smaller sizes. **Unique 3M Ceramic Purple Coated Abrasive Bands and Discs** contain patented Cubitron™ ceramic aluminum oxide mineral that sharpens itself with use. They last 2 to 4 times longer than traditional aluminum oxide discs and remove material faster with less heat and loading.

Cotton or Felt Bobs and Buffs

Solid Felt Buffs or Bobs are used in combination with gritty or smooth compounds for a variety of buffing and polishing operations on plastic, wood, and metal. They vary in shape and come in three hardnesses — medium, hard, and rock hard.

Loosely-stitched Soft Cotton Buffs are used for delicate work on precious metal and during polishing operations. Generally use high speeds for cutting down and buffing. Medium speeds are used for more delicate, precise work and for polishing.

Brushes

Miniature Power Brushes are generally used on metal surfaces and hard-to-reach areas. They are ideal for deburring, surface finishing, edge blending, roughening to create a good bonding surface, and general cleaning. Use high speeds for cleaning and deburring. Medium speeds are needed when cleaning hard-to-reach areas and edge blending.

Compounds

Freedom has seven different compounds. In addition to Emery, Tripoli, and Red and White Rouges, there is **unique Platinum Blue** for pre-polishing and cutting down platinum and other metals, and for final polishing **unique Platinum White** (8000 grit) that produces a deep luster on platinum, other metals, and acrylics. **Carnauba** is the hardest wax available. It produces a high luster on wood and painted surfaces.

2" Wheels and Discs for Angle Grinder Attachment

Freedom continues to expand its offering of several types of wheels with 3/8" arbor holes for grinding, deburring, shaping, and cutting on various materials. PSA backed abrasive discs, screens and velcro heads for sanding on wood, metal, plastic, glass, stone and more, can also be used with disc mandrels in Freedom handpieces.

These accessories work with Freedom's Angle Grinder Attachment for use on the H.30®, H.30H, or H.30SJ Chuck-Style Handpieces. It is excellent for a broad range of sanding, polishing and finishing work.

Reciprocating Filer Abrasives

Used with H.30®, H.30H or H.30SJ, the Freedom Filer holds accessories with shank sizes from 2.35mm (3/32")– 6.4mm (1/4") including **Super Stones** Rods and Bars, **Diamond Needle Files** and assorted abrasives to hone, polish, file and lap on straight and curved surfaces.

Chisels

A selection of 22 quality **Presharpened Chisels** are used in the H.50 reciprocating chisel hand-piece and other power chisel tools for carving wood and similar materials.

Bur and Tool Holders

Freedom offers a choice of bur holders. A bur holder is the perfect companion product for your collection of burs, drill bits, and other accessories of various size shanks.

The Freedom Accessory Catalog features the right accessories for your specific applications. Accessories may be purchased from your local dealer or directly from Freedom. Contact:

Freedom Electric Company,

16 Stony Hill Road, Bethel, CT 06801

Phone: (203)792-8622 • Fax: (203)796-7861

Visit our online store at www.foredom.net

Maintenance Procedures

Always make sure your power tool is unplugged when conducting maintenance procedures!

It is very important to routinely clean your Foredom® Power Tool and lubricate the shaft (NOT the motor), especially in areas that generate a lot of dust.

Dirt and improper lubrication are the most common causes of poor operation and excessive wear.

Always disconnect power tool before cleaning or servicing.

Note: The motor has permanently lubricated ball bearings and does not require additional lubrication.

Routine Cleaning of Motors

Foredom Motors need air circulation through the motor housing to remove waste heat and cool the windings. Inlet and outlet slots provide the means for air flow. However, saw dust and conductive debris (like metal filings or gold dust) can enter in through these slots. If not cleaned regularly, dust can collect, making a bridge between parts, causing an electrical short.



In high dust environments, Foredom recommends cleaning the motor every 40 hours of use.

To remove dirt and dust buildup, motor brushes should be removed, cleaned and replaced, and air should be blown through the motor.

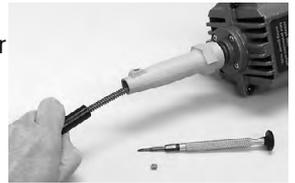
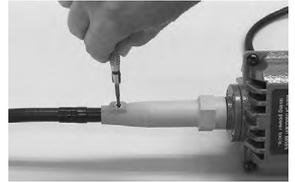
Routine Cleaning and Lubrication of Flexible Inner Shaft

The shaft should be checked, wiped clean, and relubricated with grease every 40 hours of use. With every 200 hours of use, the shaft should be thoroughly cleaned with solvent and lubricated. Use Foredom flex shaft grease (p/n MS10006) or high quality white lubricating grease.

Be sure to watch shaft and sheath maintenance videos on www.foredom.net

Exposing the Inner Shaft

1. Remove handpiece (see page 5).
2. Loosen set screw on motor connector.
3. Slide outer sheath out of motor connector and wipe inner shaft clean.
4. Apply a **very** light coating of lubrication to shaft starting at the top and working downward to about one inch from the handpiece end. Apply



grease with your finger tip or small brush. Don't overdo, apply a light film of grease. Once the machine is running, the shaft itself will spread the grease. If too much grease is applied, the excess will work its way into the handpiece and eventually seep out between the handpiece and sheath. For this reason, apply a bit less near the handpiece end of the shaft.

Never operate the motor with the outer sheath removed from the flexible shaft.

5. Replace and adjust sheath so that shaft key tip extends 3/4" (19mm) from sheath. Retighten the set screw in motor connector. See page 5, No. 2.

6. Clean outside of sheath by wiping with a cloth.

7. Hang motor over a trash can and run it for about 10 minutes before attaching the handpiece.



This provides enough time for the grease to warm up, spread and drain off. Wipe off any excess grease at tip end of sheath.

8. Re-attach handpiece. See page 5.

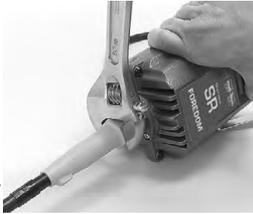
Always make sure your power tool is unplugged when conducting maintenance procedures!

Replacement of Worn Shafts and Sheaths

Shafts and sheaths last longer when they are not used at sharp angles or loops, since wear occurs at the points of greatest friction. There is no way to avoid ultimate wear, and under normal conditions a flexible shaft machine may require several replacement shafts and sheaths during its lifetime.

To expose the inner shaft follow steps 1, 2, and 3 on the previous page.

Next, remove the motor connector with 1" open end or adjustable wrench.



Motor connector has a left hand thread and must be turned clockwise (right) for removal.

Installation of New Shaft

1. After removing old shaft, loosen set screw on the new flexible shaft motor coupling and slide coupling onto motor shaft.

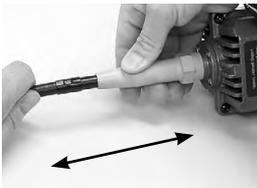
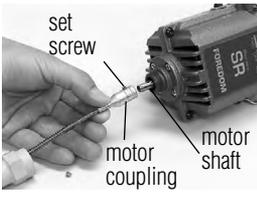
2. Tighten set screw securely onto the flat of the motor shaft.

3. Grease shaft prior to putting on the sheath. (See lubrication instructions on page 13.)

4. Slide motor connector back up over the shaft and tighten to the left (counterclockwise).

5. Slide sheath over flexible shaft with plain fitting directed toward the motor and into the motor connector. (Each end of the sheath has a metal fitting. One is plain, the other has a groove around it to fit the handpiece.)

6. Adjust the shaft (page 5 and top right) and tighten sheath set screw in motor connector.



Visit www.foreedom.net

How-To Videos on Foredom flex shaft set-up, maintenance and operation!

Shaft and Sheath Adjustment

Place the entire unit on a flat surface with shaft and sheath extended straight.



Adjust the exposed tip of the flexible shaft at the handpiece end so that it extends 3/4" (19mm) beyond the sheath.

This is done by moving the sheath in or out of the motor connector. When the correct adjustment is made, tighten the screw in the motor connector.

Replacement of Motor Brushes



Motor brushes should be checked for wear periodically. When new they are approximately 3/4" (19mm) long. Replace them when they have worn to 1/4" (6mm). To remove brushes, disconnect motor power cord and unscrew the brush caps. Remove the worn motor brushes, replace with new motor brushes, and screw motor brush caps back on. Be sure to replace both motor brushes even if one of them is less worn than the other.



New Motor Brush

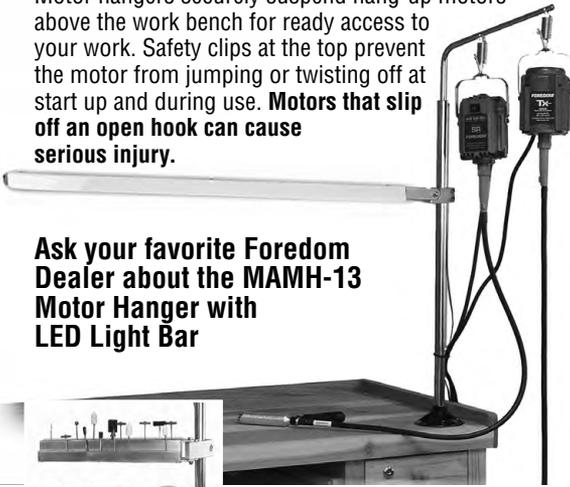


Motor Brush that needs replacement

Motor Hangers

Motor hangers securely suspend hang-up motors above the work bench for ready access to your work. Safety clips at the top prevent the motor from jumping or twisting off at start up and during use. **Motors that slip off an open hook can cause serious injury.**

Ask your favorite Foredom Dealer about the MAMH-13 Motor Hanger with LED Light Bar



Additional pivoting attachment arms for MAMH-13 Motor Hanger are available separately.

Recommended Spare Parts & Supplies

For 1/6 HP Series SR, SRB and SRM (115V & 230V)

- **MSMK-10 Maintenance Kit** which contains:

Flexible shaft (S-93)
Pair of motor brushes (MP132P)
Foredom flexible shaft grease (MS10006)
Owner's Manual

Individual Parts

- Pair of motor brushes (MP132P)
- Flexible shaft (S-93)
- Outer sheath (S-77)
- Neoprene sheath (S-77N)
- Foredom flexible shaft grease (MS10006)
- Motor Connector (UA111P)

Repair Services

Authorized repair service is available at the Foredom factory in Bethel, CT. Send items for repair to the factory marked:

“Attention: Repair Department”

Foredom Electric Company

16 Stony Hill Road, Bethel, CT 06801
Enclose the item(s), a packing list, information regarding the problem or repairs required, and your contact information including daytime phone number, email and mailing address. Estimates of repair cost will be made upon request.

If the cost (labor plus parts) is more than fifty percent of the price for a new replacement we will contact you and recommend a trade-in offer.

Storage

Store your Foredom power tools in a DRY, clean, dust-free area, and out of the reach of children.

Visit www.foredom.net

How-To Videos on Foredom flex shaft set-up, maintenance and operation!

MAMH-1 (left) has a 3-piece hexagonal support rod. It can hold either one or two motors and handpieces. It clamps onto a work bench.

MAMH-2 (right) has a 3-piece hexagonal support rod and holds either one or two motors and handpieces. Its base screws into a work bench and can also be wall mounted.



Please retain your proof of purchase for warranty repairs.

LIMITED WARRANTY

Series SR and SRH Flexible Shaft Power Tools

Warranty period is 2 years for motors and speed controls and 90 days for handpieces.

Blackstone Industries, LLC d/b/a The Foredom Electric Company warrants, to the original purchaser only, that its products will be free from defects in material or workmanship for the applicable period of time indicated above following the purchase date. During the warranty period, the defective product will be repaired or replaced without charge or, at our sole option, the purchase price will be refunded. This warranty does not cover damage caused in transit or by accident, misuse or ordinary wear.

ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE LIMITED IN DURATION TO THE APPLICABLE WARRANTY PERIOD. IN NO EVENT WILL WE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

At our sole option, repair, replacement or refund will be made if the product is returned postage prepaid to:

Foredom Electric Company
16 Stony Hill Road
Bethel, CT 06801

All warranty repairs must be done at our factory at the above address. We will not pay any shipping or transportation charges. Armatures, bearings, shafts, sheaths, duplex springs and duplex adapters are not covered by this warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Contact Information

If you have a warranty issue with your Foredom power tool please use the contact information below. For more information on Foredom machines, handpieces or accessories, contact your local dealer. When no local dealer is available contact Foredom at:

Foredom Electric Company, 16 Stony Hill Road, Bethel, CT 06801

Tel.: (203) 792-8622 • Fax: (203) 796-7861

Email: customerservice@blackstoneind.com

www.foredom.net

Garantía Limitada

Serie SR, SRB, SRM Motores de Baleros

La compañía Foredom® garantiza los motores de Serie SR por 2 años después de la compra de la máquina. La garantía cubre defectos en materiales y fabricación. Durante la garantía el producto defectuoso es reparado o sustituido gratis o el precio de la compra es reembolsable. Esta garantía no cubre daños de transporte, accidentes o desgaste normal. La compañía Foredom no es responsable por daños y perjuicios de consecuencia. A discreción de la compañía Foredom el producto defectuoso puede ser reparado o sustituido. La compañía Foredom no paga gastos de transporte para devolución del producto.

Foredom Electric Company
Repair Department
16 Stony Hill Road,
Bethel, CT 06801, U.S.A.

Funcionamiento

Antes de usar su motor eléctrico Foredom® por favor leer estas instrucciones de seguridad. Siempre use protección para sus ojos y cara cuando trabaje con su Foredom.

Su motor Foredom se puede utilizar en posición vertical o horizontal, pero una buena circulación de aire cerca del motor es muy importante. Después de funcionamiento prolongado es posible que su motor alcance temperaturas altas (hasta 100°F o 38°C + la temperatura ambiente), los motores Foredom están fabricados con alta calidad y se pueden operar con altas temperaturas.

Nunca doble excesivamente el chicote.

Los chicotes duran más tiempo si durante su operación se evitan hacer curvas y ángulos agudos. No es posible evitar el desgaste final de los chicotes y fundas de chicote durante su vida.

Nunca use presión excesiva en las piezas de mano y accesorios.

Deje a la velocidad del motor hacer el trabajo. Altas velocidades se pueden utilizar para pulir, cortar, tallar, bruñir, limpiar y encerar. Velocidades más bajas (lentamente) se pueden utilizar para trabajos mas pesados, espesos y gruesos; cuando necesita de controlar mejor la operación de la pieza de mano y accesorios en trabajos de alta precisión.

Nunca opere su maquina en casos de problemas electricos.

Desconecte su maquina hasta que la electricidad se normalice.

Mantenimiento

Es muy importante limpiar frecuentemente y lubricar su motor Foredom. Suciedad e insuficiencia de lubricación puede provocar desgaste excesivo y operación inferior. Puede adquirir equipos de mantenimiento y piezas de repuesto de la compañía Foredom.

Siempre desconecte el cable eléctrico antes del mantenimiento de su maquina.
Los motores SR, SRB, y SRM de baleros no necesitan lubricación.

1. Limpieza y lubricación del chicote.

Es necesario limpiar y lubricar el chicote después de operar 50 horas. Para exponer el chicote tiene que remover la pieza de mano y la funda de chicote. Aplique una pequeña porción de grasa especial para el chicote (Foredom No. MS10006), a lo largo del chicote. Para reponer la funda de chicote siga las instrucciones de montaje. Después de 200 horas de operación es necesario.

limpiar el chicote completamente con un

disolvente y lubricar de nuevo.

2. Cambio de los carbonos del motor.

Periodicamente inspeccione el desgaste de los carbonos del motor. El tamaño de los carbonos cuando son nuevos es aproximadamente 3/4" (19mm) cuando el tamaño es 1/4" 6.35mm) o mas pequeño la sustitución es necesaria. Para reemplazar los carbonos desconecte su maquina y desatornille las taps. El contorno de los carbonos tiene que hacer juego con la armadura del motor.

3. Siempre desconecte su maquina antes de hacer cualquier reparación.

Los chicotes duran más tiempo si durante su operación si evitan hacer curvas y ángulos agudos. No es posible evitar el desgaste final del chicote. Los motores de chicote pueden necesitar de varios reemplazos de chicote y fundas de chicote y su funda de chicote siga las instrucciones de montaje.

4. Otros servicios y reparaciones

Para cualquier otro tipo de reparación, su distribuidor le puede ayudar a solucionar el problema.

5. Almacenaje

Guarde todos los productos de Foredom® en un lugar seco, limpio y fuera de polvo.

6. Piezas de repuestos

Para Todos los Motores Series SR, SRB o SRM de 110 y 220 Voltios se recomiendan los siguientes repuestos:

- 1 Chicote (S-93)
- 1 Funda de Chicote (S-77)
- 1 Funda de Chicote de neopreno (S-77N)
- 1 Tubo de grasa especial para de Chicote (MS10006)
- 1 Par de carbonos para motores de 110 y 220 Voltios (MP132P)

Equipos de Mantenimiento:

MK-10 Contiene los siguiente repuestos:

- 1 chicote, 1 tubo de grasa para el Chicote y 1 par de carbonos para el motor (MP132P)



Reversible

Nunca cambie la dirección del motor mientras que el motor está funcionando.

Cambiar la dirección del motor mientras que el funcionamiento puede daar el motor o el chicote o causar desgaste prematuro. Para apagar el motor, quite el pie del control de velocidad de pie, o apage el control de la velocidad, y ponga el interruptor del motor en la posición (de centro) de "OFF".

Instrucciones Para el Montaje

Siempre asegure de que su motor eléctrico esta desconectado durante el montaje.

Montaje, y Ajuste de chicote, y funda de chicote y Pieza de Mano

El correcto montaje ajuste de chicote y funda de chicote son muy importantes para el correcto funcionamiento de su motor.

El chicote y funda de chicote deben ser chequeados y ajustados si es necesario, incluso si se recibe montado al motor. Favor de seguir las instrucciones siguientes para montaje y ajuste del chicote, funda de chicote y la adición de la pieza de mano.

Montaje: (ver figura 1)

1. Remueva el conector del motor. Este tiene que ser girado hacia la derecha para poder ser removido.

2. Atiño el tornillo A y deslice la pieza B sobre el eje del motor. Apriete el tornillo A.

3. Coloque el conector del motor de nuevo al motor dejando deslizar este arriba del chicote y apretarlo. Lubrique el chicote con grasa.

4. Luego deslice la funda de chicote sobre el chicote con el sellillo de chicote (no la conexión para la pieza de mano) yendo hacia el motor y dentro del conector del motor.

Ajuste

5. Antes de conectar la pieza de mano, tiene que chequear muy cuidadosamente el ajuste del chicote y funda de chicote. Ver figura 1. Ponga el motor sobre una superficie plana con el chicote y funda de chicote derecho. Ajuste la punta del chicote 3/4" (19.05mm) fuera de la funda de chicote (ver figura 1), deslizando la funda de chicote hacia adentro o hacia afuera del conector del motor. Cuando tiene el ajuste correcto, apriete el tornillo C en el conector del motor.

Conexion de la Pieza de Mano

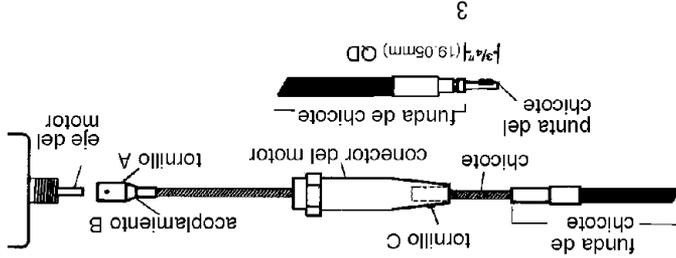
6. Finalmente puede conectar la pieza de mano, empujandola a el Q.D. (Quick Disconnect) de la funda de chicote. Ver figura 1. Siempre aseguresse de que la punta con llave del chicote es introducida en la ranura del conector para el chicote por dentro de la pieza de mano.

Conexion del Control de Velocidad

La placa con el nombre del motor tiene las especificaciones eléctricas (volttios y corriente) de su motor Foredom.

Por favor siga las instrucciones de conexión a tierra. Toma de corriente de tierra.

Conecte el control de velocidad al motor, con el enchufe de 3 puntas del cable eléctrico del motor a la hembra del cable mas pequeño del control de velocidad. Con el interruptor del motor en la posición "off", conecte el enchufe de 3 puntas del control de velocidad a su electricidad (ver diagrama pag. 2). Los motores se pueden usar también con EM-1 (110-130V) o EMH-2 (220-240V) controles de velocidad manuales con dial, únicamente en corriente AC. Agarre bien en su mano la pieza de mano para su seguridad.



Instrucciones de Seguridad

Antes de usar su motor eléctrico Foredom® por favor leer estas instrucciones. Estas son para su protección y pueden ser segundas para evitar riesgos de accidentes personales o daños en su maquinaria.

• Siempre use protección para sus ojos y

cara. Es necesario usar gafas de protección para sus ojos y careta de protección para su cara cuando trabaja con su motor Foredom o con cualquier otra máquina eléctrica y así evitar daños serios.

• Nunca opere ningún accesorio sobre el

maximo de la velocidad recomendada. Cuando se usan adecuadamente, todos los accesorios de Foredom se pueden utilizar a la velocidad

correspondiente indicada en el Catálogo de los Accesorios de Foredom. **Siempre** verifique la

velocidad recomendada cuando use accesorios de Foredom o cualquier otro fabricante.

• No continúe usando accesorios que dem-

uestren daños, vibraciones o rajaduras. Antes de

usar inspeccione los accesorios para asegurarse

de que se encuentren en buenas condiciones.

• **Siempre** inserte el vástago del accesorio dentro

del mandril de la pieza de mano lo mas profundo

posible para proporcionar soporte y apretar el

mandril adecuadamente.

• **Nunca** aplique presión excesiva en los

accesorios. Esto puede causar daños en el motor

o en el chicote.

• **Nunca** utilice el motor con la parte exterior de

la funda de chicote removido del chicote.

• **Siempre desconecte** el cable eléctrico antes del

mantenimiento del motor o antes de remover

el chicote.

• **Nunca** opere su máquina cuando existan

problemas en la corriente eléctrica. Desconecte

su máquina hasta que la electricidad se normalice.



Series M.S.R



Series M.S.RB

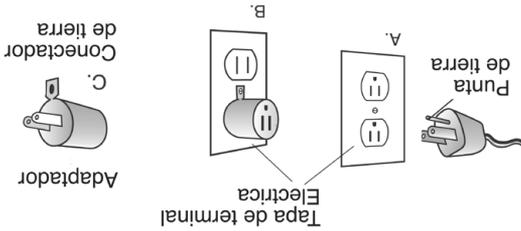


Series M.S.RM

Motores Foredom

Usted ha comprado una máquina de muy buena calidad, la cual desempeñara una gran variedad de trabajos difíciles de hacer con cualquier otra clase de maquinaria mecánica o eléctrica. Los motores Foredom están fabricados con alta calidad de precisión y ejecución y con propio uso y regular mantenimiento, puede darle muchos años de satisfacción en su ejecución. Este manual de instrucciones contiene, indicaciones para el montaje, operación y servicio de mantenimiento del motor eléctrico Foredom ilustrado a seguir.

- **Siempre utilice su motor con toma de corriente de tierra.** Para proteger al operador de corrientes eléctricas esta máquina necesita de toma de corriente de tierra. La Máquina viene equipada con un cable de tres conductores y toma de corriente de tierra con tres puntas. El conductor verde (o verde y amarillo) en el cable es el alambre de tierra, nunca conecte este a una terminal eléctrica. Si su máquina es para corriente de 150 voltios o menos tiene una toma de un adaptador como en el diagrama "B" y "C" para conectar tomas de corriente como "A" a las hembras de dos puntas. Conecte permanentemente a la tierra la pieza verde de su adaptador. Use únicamente extensiones eléctricas con 3 alambres, toma de corriente con 3 puntas y hembras que hacen juego.
- Reemplace el cable eléctrico si esta defectuoso.



Español Manual de Instrucciones

Montaje,
Funcionamiento y
Mantenimiento

Serie SR, SRB y SRM
1/6 HP de baleros blindados y
lubricados permanentemente.

La velocidad es variable,
de 0 a 18,000 RPM con giro
hacia la izquierda y derecha.

Aviso
Antes de usar su motor
Foredom por favor leer este
Manual de Instrucciones.
Siempre use protección para
sus ojos y cara.



Para obtener mas informaciones acerca
de maquinas Foredom, piezas de mano
o accesorios, puede contactar su agente.
Si no dispone de un agente puede
contactar la compañía Foredom
directamente o visite nuestro website
www.foredom.net

Email:

customerservice@blackstoneind.com

Foredom Electric Company
16 Stony Hill Road
Bethel, CT 06801, U.S.A.
Telefono: 203-792-8622 • Fax 203-796-7861