



MEYER MACHINE & EQUIPMENT, INC.

1400 ST PAUL AVE
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AGR6XX Series Drill Driven Spinning Brush System **MMSE CLEANING CABLE OPERATION & MAINTENANCE MANUAL**

Standard-Duty - 0.125" (3.2mm) Core

- **AGR611 – 20' Cleaning Cable**
- **AGR612 – 30' Cleaning Cable**

Standard-Duty flexible cables for any brush up to 16". These cables are used in residential and light commercial applications where shorter duct runs are common (up to 30') or the duct sizes do not exceed 16" in size.

Heavy-Duty - 0.170" (4.3mm) Core

- **AGR613 – 20' Cleaning Cable**
- **AGR614 – 30' Cleaning Cable**
- **AGR615 – 50' Cleaning Cable**
- **AGR616 – 100' Cleaning Cable**

Heavy-Duty flexible cables for any brush up to 48". These cables are used in commercial applications where longer duct runs are common, the duct size is large, or the ducts have heavy contamination and require harder brushes and more aggressive brushing techniques. Use of longer cleaning cables may reduce the ability to use of some large and aggressive brushes.

PROPER OPERATION OF CABLES

As with any tool, proper operation is essential for the safety of the operator and others, long equipment life, and quality work. If you are unfamiliar with the cable operation please read the following carefully.

Button-Lock Brushes from Meyer Machine Supply & Equipment do not require the use of any tools to change the brush size or type while on the job.

1. To connect a brush to your cleaning cable: locate the 1/4" push button on the brush end connector; depress the button to allow the brush core body to fit over the boss of the brush end connector. Rotate the brush until the push button extends into the alignment hole in the brush core body.
2. To remove a brush from your cleaning cable: locate the 1/4" push button and the alignment hole on the brush core body; depress the button to allow the brush core body to be removed from the brush end connector.
3. Attach a portable drill with a clutch feature to the drill end connector. Tighten the drill chuck on the drill end connector. Turn the clutch down to the lowest number, and set the drill on the lowest speed setting. Hold the cable straight out on the floor (have someone assist if cable is too long).
4. Start the drill and increase the clutch setting until the brush spins and the clutch does not "skip" or "click". This setting is usually one number higher than when the clutch stops clicking. Failure to follow these steps may result in inner cable breaking. Turn off the drill.
5. Insert the brush into the duct. Set the drill on clockwise setting and start the drill. The brush should spin and "walk" itself down the center right side of the duct (if square or rectangle). When you get to the end of the run or cable length, reverse the drill (counterclockwise) and slowly pull the cable out. This will cause the brush to contact the center left side of the duct. With the proper brush for the job, this action should clean in one pass. Severely polluted ducts may take two or more passes to completely clean all surfaces.



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6. Be sure to use caution when removing the brush from the duct. Brush should not be spinning when it is inserted or removed from the duct. Always wear proper PPE including eye protection, and gloves.
7. Operation with drills and other rotating equipment that do not contain a clutch feature significantly increases the risk of equipment failure, specifically the inner cable breaking.

ORANGE CLEANING CABLE REPAIRS

DRILL AND BRUSH END CONNECTORS ARE COMPATIBLE WITH MEDIUM-DUTY, AND HEAVY-DUTY ROTATION CORES

There are two ways to repair the cleaning cables, replace the inner cable or shorten the outer cable.

REPLACING THE INNER CABLE

1. Determine the total length of the cable from brush end to drill end.
2. Order inner thread one foot longer than the total cable length measured in step #1.
3. Using the proper Allen wrench, remove two ¼”-20 setscrews from each of the connectors.
4. Remove inner core from connectors, and any remaining in the cleaning cable casing.
5. Insert the new core into the cable casing. Wipe the core with clean cloth as you insert it.
6. **DO NOT CUT INNER CORE YET.**
7. Slide brush end connector over extended core until it just reaches inside of connector where the brush goes. Note where the two set-screw thread holes are and make two flat spots on cable with grinder or file. **DO NOT OVER GRIND.** Just a small spot for setscrew to grab is all that is needed.
8. Slide connector up and align flat spots with holes. Insert ¼”-20 setscrews and tighten both with Allen wrench.
9. Slide the drill end connector down on core and notch as in step #7.
10. Pull inner core tight enough to keep brush end connector tight on other end of cable and slide drill end connector down leaving 1/8-inch play between the drill end connector and cable.
11. Tighten ¼”-20 setscrews as in step #8.
12. Be sure that cable spins freely and has a little play. If not repeat steps #9-12.
13. Cut the extra core sticking out of the drill end connector as close as possible. You may want to touch end to grinding wheel or file if cut end is sharp.

NOTE: when long cables are rolled up, the inner core will show and appear to be too long. **DO NOT RE-CUT!** When cable is opened up straight the extra will go away.

IF INNER CORE BREAKS CLOSE TO END OF ORANGE CASING

- A. Follow #3 and #4 from above and remove the end that has broken inner thread.
- B. Using groove channel pliers, twist and pull the bushing off the orange casing at the end that will be trimmed.
- C. Pull inner bore back inside casing about 12 inches or determine where break is.
- D. Cut the ORANGE casing with razor or sharp knife about 6 inches shorter than inner core.
- E. Press the bushing back onto the orange casing.
- F. Follow #7 to #13.



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Residential Brushing Kit List

AGR601	Residential Brushing Kit
AGR611	20' Spinning Brush Cable (Standard-Duty)
AGR612	30' Spinning Brush Cable (Standard-Duty)
AGR631-08	8" Soft Brush
AGR632-12	12" Soft Brush
AGR641-08	8" Stiff Brush
AGR642-12	12" Stiff Brush
AGR652-08	8" Corner Brush
AGR652-12	12" Corner Brush
AGR661-04	4" Abrasive Brush
AGR661-06	6" Abrasive Brush
AGR692	0.125" Replacement Core (not included in kit)

A variety of other brush sizes and materials are available.

Replacement Hanks of brush material available.



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Commercial Brushing Kit List

AGR602	Commercial Brushing Kit
AGR613	20' Spinning Brush Cable (Heavy-Duty)
AGR614	30' Spinning Brush Cable (Heavy-Duty)
AGR652-12	12" Corner Brush
AGR653-16	16" Corner Brush
AGR653-20	20" Corner Brush
AGR632-12	12" Soft Brush
AGR632-16	16" Soft Brush
AGR642-12	12" Stiff Brush
AGR642-16	16" Stiff Brush
AGR642-20	20" Stiff Brush
AGR693	0.170" Replacement Core (not included in kit)

A variety of other brush sizes and materials are available.

Replacement Hanks of brush material available.