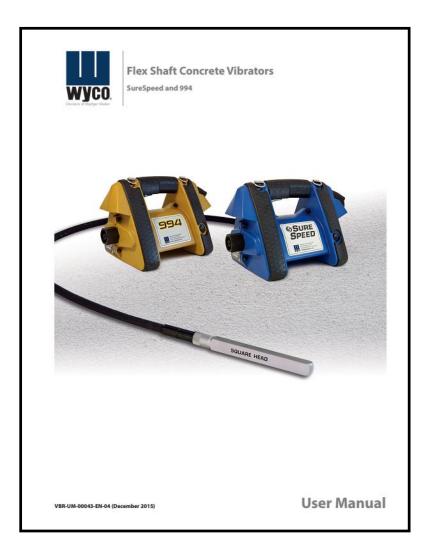
SAFETY AND OPERATIONS INSTRUCTIONS FROM:



PLEASE READ THIS INFORMATION CARFULLY PRIOR TO OPERATING EQUIPMENT

AWARNING

READ ALL SAFETY WARNINGS AND ALL INSTRUCTIONS. FAILURE TO FOLLOW THE WARNINGS AND INSTRUCTIONS MAY RESULT IN ELECTRIC SHOCK, FIRE AND/OR SERIOUS INJURY.

GENERAL POWER TOOL SAFETY WARNINGS

- **NOTE:** Save all warnings and instructions for future reference.
- **NOTE:** The term power tool in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work Area Safety

- 1. Keep work area clean and well lit.
- 2. 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.
- 3. Keep children and bystanders away while operating a power tool.

Electrical Safety

- 1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed or grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- 2. 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.
- 3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 4. 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.
- 5. When operating a power tool outdoors, use an extension cord suitable for outdoor use to reduce the risk of electric shock.
- 6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply to reduce the risk of electric shock.
- **NOTE:** The term residual current device (RCD) may be replaced by the term ground fault circuit interrupter (GFCI) or earth leakage circuit breaker (ELCB).

Personal Safety

- 1. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication to avoid risk of serious personal injury.
- 2. Always wear eye protection. Other protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection should be used in appropriate conditions to reduce personal injuries.
- Ensure the switch is in the OFF position before connecting to power source and/or battery pack, picking up or carrying the tool.
- 4. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 5. Do not overreach. Keep proper footing and balance at all times.
- 6. 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.

Power Tool Use and Care

- 1. Do not force the power tool. Use the correct power tool for your application.
- 2. 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.
- 3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools to reduce the risk of starting the power tool accidentally.
- 4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- 5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect operation. If damaged, have the power tool repaired before use.
- 6. Keep cutting tools sharp and clean.
- 7. Use the power tool, accessories, tool bits, and like equipment in accordance with these instructions, taking into account the working conditions and the work to be performed.

Service

Have your power tool serviced by a qualified repair person using only identical replacement parts to ensure the tool is safe to use.

Emissions

1. Declared noise emission values:

K = 0.69 dB $L_{pA} = 83.1 \text{ dB}$

```
L_{pA} = 93.1 \text{ dB}
L_{wA} = 94.1 \text{ dB}
```

NOTE: Wear hearing protection.

```
2. Declared vibrator emissions:
```

```
Front Handle = 4.28 \text{ m/s}^2
K = 1.50 \text{ m/s}^2
Rear Handle = 2.41 \text{ m/s}^2
K = 1.50 \text{ m/s}^2
```

NOTE: The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared vibration total value may also be used in a primary assessment of exposure.

AWARNING

THE VIBRATION EMISSION DURING ACTUAL USE OF THE POWER TOOL CAN DIFFER FROM THE DECLARED TOTAL VALUE DEPENDING ON THE WAYS IN WHICH THE TOOL IS USED.

SAFETY SYMBOL EXPLANATIONS

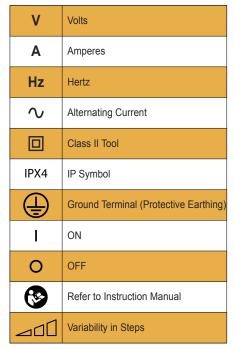


Figure 1: Safety symbols

Additional Safety Note

Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation eliminates the need for the three-wire grounded power cord and grounded power supply system.

INTRODUCTION

This concrete vibrator motor is used to power concrete flex shaft vibrators which provide vibration to consolidate freshly poured concrete. The vibration is created by an eccentric (off center) weight within the vibrator head. As the weight spins it forces the head housing to move within the fresh concrete. The continuous head movement agitates the concrete mixture resulting in significantly reduced voids.

This motor can be used with any valid Wyco vibrator head and shaft combination. See *Table 1* or common combinations. Shafts are available in lengths of 2, 5, 7, 10, 14, 20 and 30 feet (0.61, 1.52, 2.13, 3.05, 4.27, 6.1, and 9.14 m).

AWARNING

DO NOT USE NON-APPROVED PARTS. THE USE OF NON-APPROVED PARTS MAY CAUSE A HAZARDOUS CONDITION FOR THE OPERATOR.

Vibrator Head		Vibrator Shaft	
Size in. (mm)	Model No	Length	CK Series
13/16 (4.76)	750-D	220 ft	0000
1 (25.4)	750-EH	(0.616.1 m) 8900	
1-3/8 (34.92)	750-FI	220 ft (0.616.1 m) 9500	
1-3/4 (44.45)	750-Gl		
2 (50.8)	750-LI		
2-1/4 (57.15)	750-MI		
2-1/2 (63.5)	750-SBI		
1-3/8 (34.92)	750-FI	30 ft (9.14 m)	

Table 1: Wyco head and shaft combinations

IMPORTANT

Third party approvals/certifications only apply when Product is used solely with head and shaft models listed in Product's user manual.

OPERATION

Before Starting the Motor

ADANGER

DO NOT USE DAMAGED EQUIPMENT. INSPECT THE VIBRATOR FOR DAMAGE PRIOR TO USING THIS EQUIPMENT. READ, UNDERSTAND AND FOLLOW ALL SAFETY AND MAINTENANCE INSTRUCTIONS IN THIS MANUAL. CAREFULLY CHECK THAT THE POWER CORD HAS NO CUTS OR EXPOSED WIRES. VERIFY MOTOR HOUSING IS INTACT. CHECK ALL ACORN NUTS TO VERIFY THEY ARE TIGHTENED.

DO NOT START THE MOTOR WITHOUT A SHAFT CONNECTED. THE EXPOSED SHAFT CONNECTION PRESENTS A SAFETY HAZARD AS IT ROTATES AT HIGH SPEED. CLOTHING OR SKIN MAY BECOME ENTANGLED IN THE SHAFT CONNECTION CAUSING INJURY.

Ensure that the motor, shaft and head are connected securely. See *Preventive Maintenance on page 12*.

Ensure that the power plug is connected to the appropriate power source.

Ensure that the motor is not immersed in concrete and that any cord connections are not in water or fresh concrete.

Turn vibrator on by moving the rocker switch to **I**. See *Figure* 14 on page 12 for switch location.

NOTE: The SureSpeed has been designed with a soft start and will slowly ramp up to speed over a 1 second period.

Insert the vibrator head into the concrete to be consolidated.

Do not run the vibrator head outside of fresh concrete for an extended period of time. The vibrator depends on moving concrete to cool the bearings.

Avoid sharp bends in the flex shaft during operation. Sharp bends reduce shaft life.

Remove the vibrator head from concrete and turn the rocker switch to **O**. See *Figure 14 on page 12* for switch location.

Variable Speed Control Models Only

The variable speed option allows the operator to choose between 8000, 10,500, and 12,000 VPM (vibrations per minute).

- **NOTE:** This instruction only pertains to model numbers that start with WV.
- **NOTE:** See *Figure 14 on page 12* for switch and button locations.

When the power switch is turned on, the motor will always start at 10,500 VPM. From the time the power is applied there is a 20 second window in which to choose one of the alternate motor speeds.

Hold the speed control button for one second to change the motor speed to 8000 VPM. Release the speed control button and then press it again for one second to increase the motor speed to 12,000 VPM.

Release and then press the speed control button a third time for one second to return the motor to 10,500 VPM. To reset the 20 second speed change period, turn the power switch off and then on again.

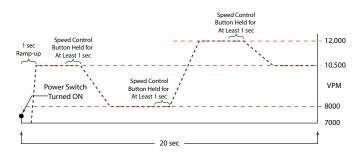


Figure 2: Variable speed control timing

SETUP

The motor has several options for connecting the core and casing assembly to the motor housing. For all available connections, see *Figure 13 on page 11*.

Connecting the Vibrating Casing (Quick-Disconnect Connections)

NOTE: The casing must be fitted with a quick-disconnect end.



Figure 3: Quick-disconnect fitting

- 1. Be sure the locking lever on the quick-disconnect connector on the motor is in the up position. See *Figure 3*.
- 2. Locate the core and casing. Identify the side of the casing that has the connection arrow and position the casing with the arrow face to the left as viewed from the vibrator head end. See *Figure 4*. This side should face to the left when the casing is held directly behind the quick-disconnect.



Figure 4: Casing arrow location

- 3. Align the end of the core with the driver inside the quick-disconnect fitting on the motor.
- Align the arrows on the casing end with the unlock icon on the quick-disconnect connector. The unlock and lock positions are shown by the unlock and lock icons (see *Figure 5*) on the side of the quick-disconnect fitting. See *Figure 6*.

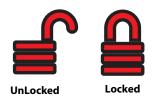


Figure 5: Unlock/Lock icons

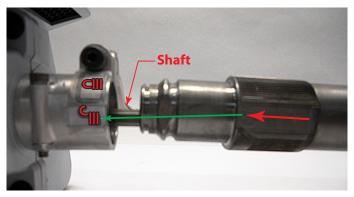


Figure 6: Core/Casing alignment

- 5. Insert the casing and line up the shaft and driver so the shaft slides into the driver.
- 6. Rotate the casing until the arrow lines up with the lock icon on the quick-disconnect connector.
- 7. Push down on the locking lever to clamp the casing into the quick-disconnect connector. The locking lever should bottom out on the side of the quick-disconnect connector.
- **NOTE:** If the casing feels loose or too tight after pushing down on the locking lever, raise the lever until the lever is horizontal then rotate the hex head screw with a #4 Allen wrench in either direction to tighten or loosen. Be careful to not loosen the lever too far or the lever bushing and screw will unthread and could fall apart. After the adjustments are completed, push lever back down to bottom out to connector. This procedure may need to be repeated to get desired tight or lose condition. See *Figure 7 on page 9*.



Figure 7: Locking lever adjustment

Disconnecting the Vibrator Casing (Quick-Disconnect)

- 1. Be sure the quick-disconnect locking lever on the motor is in the up position.
- 2. Rotate the core and casing counterclockwise from the lock position to the unlock position.
- 3. Pull the casing end straight out of the quick-disconnect connector on the motor.
- 4. Be sure that the locking lever is in the down position when storing the motor to avoid damage to the lever.

Connecting the Vibrating Casing (Threaded Connections)

NOTE: The casing must be fitted with a thread connector end.



Figure 8: Threaded casing connector

1. Line up threads of the shaft with the threaded motor connector. Hold the casing end firmly and rotate the casing until it engages into the motor.

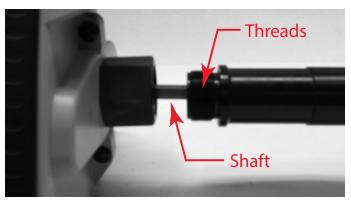


Figure 9: Shaft insertion

2. Hold the casing assembly in one hand while carefully rotating the motor counterclockwise until motor is snug to the shaft. See *Figure 10*.



Figure 10: Motor rotation

- **NOTE:** The motor may be taken off of the work surface allowing the motor housing to spin in the air while holding onto the flex shaft with a hand or with vise. Do not over tighten or reef as this may damage the plastic motor housing.
- 4. Once threads are started, rotate motor assembly until the motor assembly stops turning. See *Figure 10*.
- 5. Use a crescent wrench to hold the hex motor connector and a pipe wrench on the flex shaft to tighten. See *Figure 11*.



Figure 11: Crescent wrench and pipe wrench placement

6. The vibrator assembly is now ready to use.

Disconnecting the Vibrator Casing (Threaded Connector)

 Carefully loosen the hex motor connector, using a crescent wrench on the motor and a pipe wrench on the flex shaft assembly, until the motor assembly can be rotated by hand in a counterclockwise direction. See *Figure 11*.



Figure 12: Hex motor connection

- 2. Carefully rotate the motor until it and the casing separate from one another. Do not pull the core end too far out of the casing end or the head will have to be removed to realign the core with the head driver.
- 3. Place casing end of shaft into a vice and place an adjustable wrench to the hex motor connector to tighten the motor to shaft.

AWARNING

TIGHTENING OR TORQUING USING THE MOTOR HANDLE CAN CAUSE DAMAGE TO MOTOR CASING.

The motor can accommodate any of the 750 series cores and casings.

The motor is ordered as either a dedicated quick-disconnect connection or a dedicated threaded connection version.

If the threaded version was ordered it cannot be used with the quick-disconnect core and casing. If the quick-disconnect version was ordered threaded core and casings can be used with the addition of a thread to quick-disconnect adapter. The configuration options are shown in *Figure 13*.

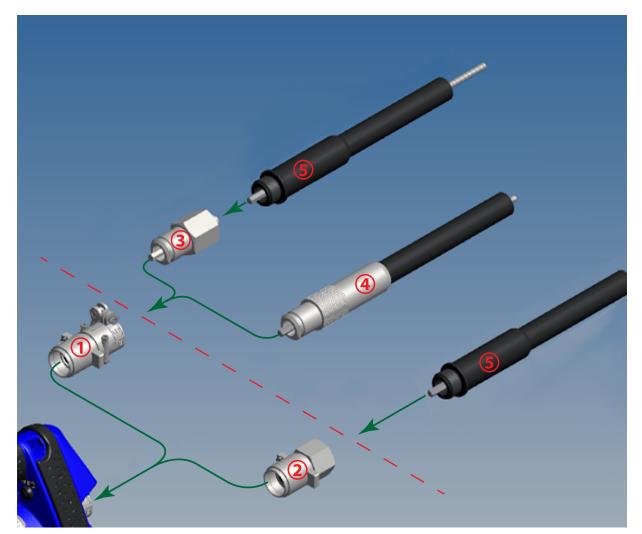


Figure 13: Core and casing configurations

ltem	Description	Notes	
1	Quick-Disconnect Motor End	These motor ends are part of the motor assembly. They are not interchangeable and are part of the specific part number.	
2	Threaded Motor End		
3	Threaded to Quick-Disconnect Adapter	Wyco PN W423-500 allows threaded core and casings to be used with quick-disconnect motor.	
4	Quick-Disconnect Core and Casing		
5	Threaded Core and Casing		

Table 2: Core and casing options