

V35 & V75

Velocity Series Potter's Wheel

Instruction Manual

A Tradition of Excellence

SHIMPO

A Nidec Group Company

NIDEC-SHIMPO AMERICA CORPORATION • Itasca, IL 60143 USA • Phone: (800) 237-7079 • (630) 924-7138 • Fax: (630) 924-0340
www.shimpoceramics.com • info@shimpoceramics.com

Velocity Series



Congratulations on your purchase of a Shimpo V35 or V75 Velocity Series potter's wheel! We trust you will enjoy many years of professional results from your wheel.

Please read the entire instruction manual thoroughly before initial set-up and operation; the information contained herein will aid you in operating your Shimpo Velocity wheel safely and with excellent results.

If you have any questions regarding our product(s), call your local Shimpo dealer or contact Shimpo Ceramics directly for assistance at 800-237-7079.

Features and Benefits

The Velocity Series offers the renowned resilience and power of Shimpo wheels, yet also features a built-in table and splashpan in one convenient workstation. Features of the V35 and V75 include:

- Heavy-duty steel construction assures long service life
- PWM controller/industrial grade potentiometer/ribbed belt drive together maximize motor power while ensuring smooth speed adjustment and quiet operation
- Tripod workstation includes table space and splashpan
- External access to belt tension allows for easy adjustment
- Remote foot pedal will independently hold speed while ensuring maximum comfort and flexibility
- Clockwise and counter-clockwise wheelhead rotation

Inspection/Standard Accessories

If upon delivery shipping damage is detected, do not operate the wheel. Notify shipping carrier immediately for damage claim instructions. Refer to product nameplate and record serial number for future reference.

Items included with the V35 and V75 are:

- (1) T-wrench (for tightening wheelhead)
- (1) Easy Two-Piece Splashpan

Important Safety Precautions



Do not plug power cord into an extension cord (plug directly into electrical wall outlet).



Foot pedal must be fully depressed backwards before turning ON/OFF switch to ON.



Do not overload the wheelhead with clay or force it to stop, as this will shorten the life of the motor (maximum clay weight should not exceed 30 lbs. for V35 and 75 lbs. for V75).



After operating, before cleaning or inspection:

1. Turn ON/OFF switch to OFF (confirm indicator light is off).
2. Unplug wheel from power source.

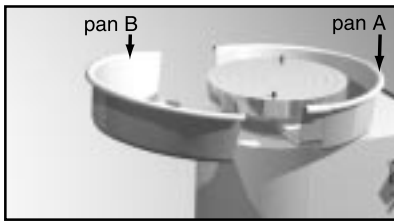


Do not remove the blue pulley guard from the bottom of the pottery wheel table. Refer all electrical repairs to a qualified electrical technician.

Set-Up

The following steps should be followed BEFORE operating the wheel:

1. Remove wheel from shipping box.
2. Place wheel on a firm and stable work surface.
3. Foot pedal and splashpan are packaged together. Remove them from their packing material.
4. Set pedal next to wheel.
5. Level the wheel.
6. To attach the Easy Two-Piece Splashpan to the Velocity wheel, begin by placing pan A behind wheelhead (see diagram below).
7. Push pan forward to seat it under the flange of the bearing holder (under the wheelhead).
8. Holding pan B at an angle, place edge under lip of pan A.



Operation

1. Plug electrical power cord into 115-volt outlet (standard U.S. household grounded 3-prong outlet).
2. Place clay on wheelhead.

CAUTION: Do not overload the wheelhead with clay; (V35: 30 lbs. maximum, V75: 75 lbs. maximum).

3. Ensure that foot pedal is depressed backward to the stop position (heel down).
4. Turn ON/OFF switch to ON position. The ON/OFF switch will illuminate when set to the ON position.
5. Set toggle switch for desired wheelhead rotation. Wheelhead rotates counter-clockwise when the toggle switch is in the FWD position, clockwise when the toggle switch in the REV position.

NOTE: Wheelhead must come to a complete stop before changing wheelhead rotation direction.

6. Press foot pedal forward (toe down) to desired speed. To stop the wheel, fully depress the foot pedal backward to the stop position (heel down).
7. To turn off the wheel, set toggle switch to STOP position and set the ON/OFF switch to the OFF position. The ON/OFF switch light will go out when set to the OFF position.

Maintenance

With proper operation and care, your Shimpo Velocity wheel will last for many years.

- Use the recommended clay weight for your wheel to avoid strain and eventual burn out of your motor.
- Keep wheel clean to prevent rust or corrosion.
- Never use a power washer or hose to clean wheel or foot pedal.
- Do not use abrasive tools or acidic chemicals to clean wheel or foot pedal.
- Allow the motor to come to a complete stop before reversing directions.

Cleaning

1. Turn toggle switch to STOP and the ON/OFF switch to OFF; unplug wheel from power source.
2. With a damp sponge or towel, wipe down wheel head and table, removing water and clay.
3. Remove the two-piece splashpan by gently pressing down on both sides of pan B where it joins pan A.
4. Carefully pull pan B away from wheelhead.
5. Push pan A away from the wheelhead and remove.
6. Remove all clay slurry from pan and wipe dry.

CAUTION: Do not tilt wheel to drain splashpan. Do not discard clay slurry into a drain without a clay trap.

Fuse Replacement

1. Turn toggle switch to STOP and the ON/OFF switch to OFF; unplug wheel from power source.
2. Locate fuse holder on switch plate.
3. Unscrew fuse cap by pushing the cap in and turning counter-clockwise.
4. When removing the cap, notice the fuse is attached to it.
5. Withdraw fuse from cap.
6. Place new fuse into cap. Replace fuse cap, locking it in place by turning clockwise.
(For V35, use 250V 8 amp fast blow fuse)
(For V75, use 250V 10 amp fast blow fuse)
7. Test wheel operation.

Brush Replacement

Motor brushes should be replaced every 5,000 hours of operation. For maximum brush life, always allow the motor to come to a complete stop before changing directions of the wheelhead.

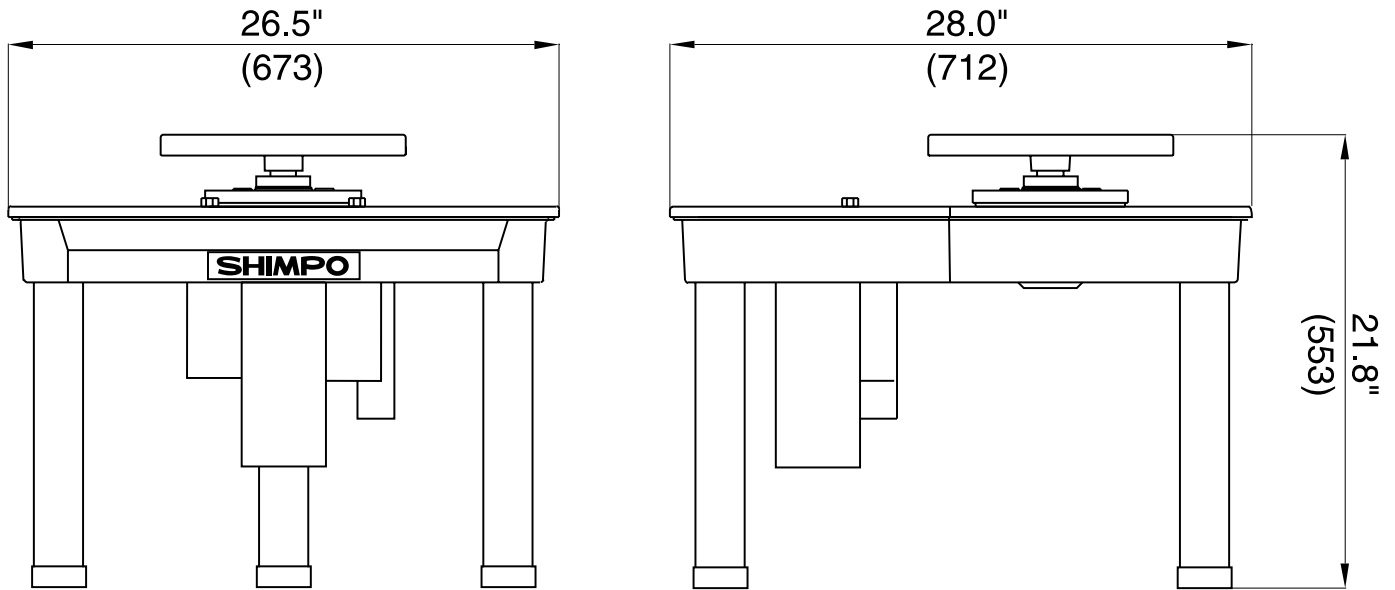
1. Turn toggle switch to STOP and the ON/OFF switch to OFF; unplug wheel from power source.
2. Locate the two brush holders near the bottom of the motor under the wheel.
3. With a flathead screwdriver, unscrew the black cap counter-clockwise. Please note that the spring attached to the brush may pop out.
4. Remove old brush.
5. Insert new brush into the brush holder. It should slide easily into place as the opening is keyed to fit the brush.
6. Using cap, push spring into the holder.
7. Screw cap clockwise and tighten with flathead screwdriver.

Drive Belt Tension Adjustment

The belt can be tightened or loosened without removing the blue pulley guard.

1. Turn toggle switch to STOP and the ON/OFF switch to OFF; unplug wheel from power source.
2. Locate belt adjustment opening under wheel, near motor attachment plate.
3. Using a 17 mm open face wrench, loosen the tension nut on the tension bolt in the belt adjustment opening.
4. Turn tension bolt clockwise to tighten belt, counter-clockwise to loosen.
5. Plug wheel into power source; turn ON/OFF switch to ON and set toggle switch to FWD. Set foot pedal to a very low speed.
6. Apply hand pressure to the sides of the slowly spinning wheelhead and attempt to stop it. If the belt is too loose, the small motor pulley will audibly slip and continue to spin independent of the belt. If the belt is too tight, there will be increased motor noise due to strain on the motor shaft.
7. Retighten tension nut when desired belt tension is achieved.

Dimensions and Specifications



KEY: $\frac{\text{in}}{\text{(mm)}}$

| VELOCITY SERIES SPECIFICATIONS | | |
|----------------------------------|--|-------------------------------|
| Model | V35 | V75 |
| Motor | 1/3 HP, 350 W, 115 VAC, 60 Hz | 3/4 HP, 825 W, 115 VAC, 60 Hz |
| Centering | 30 lbs (13.6 kg) | 75 lbs (34 kg) |
| Dimensions | 28" x 26.5" x 21.8" (712 mm x 673 mm x 553 mm) | |
| Ship Weight | 115 lbs (52.1 kg) | 120 lbs (54.4 kg) |
| Wheelhead Diameter | 12" (300 mm) | |
| Wheelhead Material | Cast aluminum alloy, concentric circles every inch, bat pins | |
| Wheelhead Speed/Direction | 0-250 RPM counter-clockwise/clockwise | |
| Drive System | Poly-V belt | |
| Speed Control | Remote foot pedal, industrial-grade PWM controller, high-grade ceramic potentiometer | |
| Optional Accessories | Jigger arm, ball mill rack, leg extensions | |

Velocity Series

Troubleshooting

The following are general checkpoints; please call your local Shimpo representative or contact Shimpo Ceramics directly for further assistance.

The wheel has either stopped or does not turn on (indicator light is off):

- *Confirm that all electrical components are functioning properly (power source, power cord and fuse)*

The wheelhead does not turn but the indicator light is on:

- *Safety protection circuitry may be engaged*
 1. Turn ON/OFF switch to OFF position (indicator light is off).
 2. Depress foot pedal to off position.
 3. Turn ON/OFF switch to ON position (indicator light is on).

The wheel experiences a drop in power:

- *Confirm that all electrical components are functioning properly (power source, power cord and fuse)*
- *The drive belt tension may require adjustment (refer to Drive Belt Tension Adjustment section of manual)*

The wheel makes a chirping sound:

- *Motor brush may need to be changed (refer to Brush Replacement section of manual)*
- *Belt adjustment may be too tight (refer to Drive Belt Tension Adjustment section of manual)*

Warranty

LIMITED EXPRESS WARRANTY

Shimpo warrants, to the original purchaser of new products only, that this product shall be free from defects in workmanship and materials under normal use and proper maintenance for two years from the date of original purchase. This warranty shall not be effective if the product has been subject to overload, misuse, negligence, or accident, or if the product has been repaired or altered outside of Shimpo's authorized control in any respect which in Shimpo's judgment, adversely affects its condition or operation.

DISCLAIMER OF ALL OTHER WARRANTIES

The foregoing warranty constitutes the SOLE AND EXCLUSIVE WARRANTY and Shimpo hereby disclaims all other warranties, expressed, statutory or implied, applicable to the product, including, but not limited to all implied warranties of merchantability and fitness.

LIMITATION OF REMEDY

Buyer must have Shimpo's authorization before returning the product, properly repackaged, freight prepaid to Shimpo to obtain warranty service.

Under this warranty Shimpo's SOLE OBLIGATION SHALL BE TO REPAIR OR REPLACE the defective product or part, at Shimpo's option. Shimpo reserves the right to satisfy warranty obligation in full by reimbursing Buyer for all payments made to Shimpo, whereupon, title shall pass to Shimpo upon acceptance of return goods.

INDEMNIFICATION & LIMITATION OF DAMAGES

Buyer agrees to indemnify and hold Shimpo harmless from and against all claims and damages imposed upon or incurred arising, directly or indirectly, from Buyer's failure to perform or satisfy any of the terms described herein. In no event shall Shimpo be liable for injuries of any nature involving the product, including incidental or consequential damages to person or property, any economic loss or loss of use.

MERGER CLAUSE

Any statements made by the Seller's representative do not constitute warranties except to the extent that they also appear in writing in this contract.

This writing constitutes the entire and final expression of the parties' agreement.