



Outperform every day.™

ENGLISH

Operator's Manual



Onion King® 500N 501N 502N 503N



Thank you for purchasing this Vollrath Food Processing Equipment. Before operating the equipment, read and familiarize yourself with the following operating and safety instructions. **SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.** Save the original box and packaging. Use this packaging to ship the equipment if repairs are needed.

SAFETY PRECAUTIONS

To ensure safe operation, read the following statements and understand their meaning. This manual contains safety precautions which are explained below. Please read carefully.

WARNING

Warning is used to indicate the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.

CAUTION

Caution is used to indicate the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.

NOTE

Note is used to notify people of installation, operation, or maintenance information that is important but not hazard-related.

For Your Safety!

These precautions should be followed at all times. Failure to follow these precautions could result in injury to yourself and others.

To reduce risk of injury or damage to the equipment:

- Check equipment before each use to insure the equipment is clean.
- Check for broken, nicked or dull blades and if found, replace the blade assembly.
- Check to insure that the pusher head sits down completely on the rubber bumpers.
- On tabletop models the suction cups will hold the equipment securely to smooth surfaces.
- If necessary, lubricate guide rods using a light coating of mineral oil, Petro Gel, or food grade lubricant. **DO NOT USE COOKING OIL AS IT WILL BECOME STICKY AND MAY PERMANENTLY DAMAGE THE PUSHER HEAD BEARINGS**

FUNCTION AND PURPOSE

Intended for cutting, dicing and wedging vegetables and fruits.

FEATURES AND CONTROLS

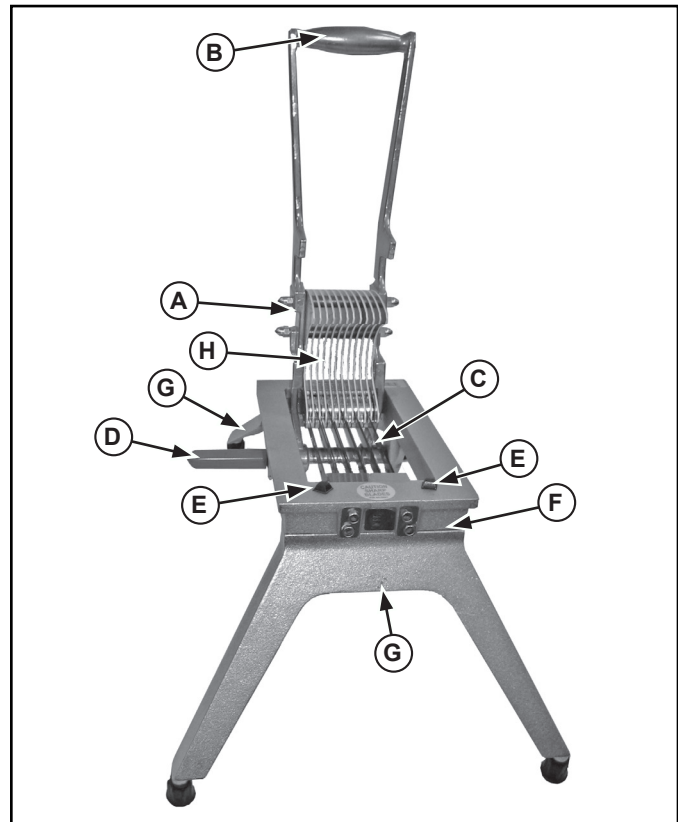


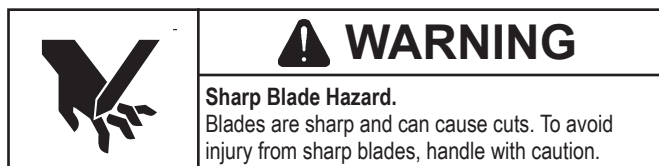
Figure 1. Features and Controls.

- (A) **PUSHER HEAD ASSEMBLY.** Pushes the food product through the blade assembly.
- (B) **HANDLE.** Used to lower and raise the pusher head.
- (C) **BLADE ASSEMBLY.** Houses the blades. Specifically sized to match the corresponding pusher head block.
- (D) **SAFETY HANDLE.** Held with the left hand during operation to help avoid injury.
- (E) **PUSHER HEAD BUMPER.** Cushions the stopping of the pusher head on the frame.
- (F) **BASE ASSEMBLY.** Holds the guide rods and parts of the equipment.
- (G) **LEG ASSEMBLY.** Supports the equipment.
- (H) **PUSHER HEAD FINGERS.** Pushes food product between the blades.

UNPACKING THE EQUIPMENT AND INITIAL SETUP

Carefully remove crating or packaging materials from the equipment. When longer needed, dispose of all packaging materials in an environmentally responsible manner.

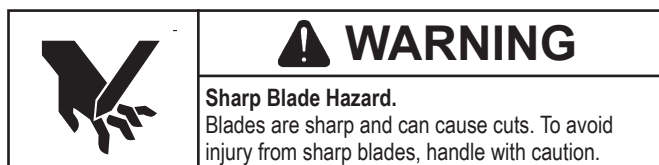
OPERATION



Prior to first use, it is important to clean the equipment. Wash new blades with warm soapy water and rinse thoroughly to remove the thin protective oil film.

- Before each use, check that the equipment is clean and the blades are in good condition. If loose or broken blades are found, blades must be serviced.
- Before each use, check for proper blade alignment. Slowly set the pusher head (D) onto the blade assembly. See Figures 1. They should slide together with no obstructions. If there are obstructions, verify they are a matching set.
- Verify that the blade assembly (C) and pusher head assembly (A) are the desired size. See Figure 1.
- Prepare the food product to be processed. The maximum size of the food product is 3" (2.6 cm) in diameter.
- Lift the handle (B) and place the food on the rear of the blade assembly (C) with the flat side down.
- Remove hand from the blade assembly area and place that hand on the safety handle (D).
- Lower the handle (B) to slightly score the food product.
- Using a strong, quick, downward thrust, force the food product through the blade assembly (C).
- Repeat this process until you have prepared enough food product for your daily needs.
- Clean and lubricate your equipment immediately after each use. See the **CLEANING** section of this manual for more information.

CLEANING



To maintain the appearance and increase the service life, clean your daily.

NOTE:

Food acids will make blades dull and corrode the metal. Always clean this food preparation equipment immediately after every use.

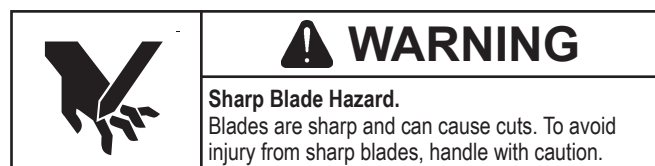
- Raise the handle to put the highest position. See Figure 1.
- Clean large excess pieces of scrap with a small nylon brush.
- Wipe, rinse or spray off equipment, pusher head assembly (H) and blade assembly (C) thoroughly with HOT water.
- Do not wipe across the blades or use scrub pads on this equipment. Wiping across the sharp edge of the blade can cause injury and will dull the blades.

- The cutting blade assembly (C) is best cleaned by forcing water under pressure through the blades from the unsharpened side. If necessary, use a nylon bristle cleaning brush to push food particles out from the unsharpened side of the blade assembly (C).
- Do not put this equipment in a dishwasher or dish machine with soaps, detergents, or other alkaline chemicals that can harm the equipment.
- After cleaning, let the equipment air dry.
- Lubricate the pivot rod with mineral oil or Petro Gel after each use. Do not use cooking oil as it will become sticky and may permanently damage the equipment.

PREVENTATIVE MAINTENANCE

- Clean equipment after every use.
- Use equipment for intended purposes only.
- Change blades regularly - based on usage.

REPLACING BLADE ASSEMBLY



Wash new blades with warm, soapy water and rinse thoroughly to remove the thin protective oil film. Keep the sharp edge away from you when handling blades.

- Familiarize yourself with the parts diagram for your equipment.
- Allow ample room to work on a flat, dry surface.
- Raise the handle and pusher head as far up as it will go.
- Remove the screws (I) retaining the old blade assembly (W). See Spare Parts List and Exploded View.
- Carefully remove and dispose the blade assembly (W). Retain hardware for installing new blade assembly.
- Examine the pusher fingers (F). If they are nicked or burred, smooth the rough edges with a small flat file. The spaces between the fingers must be uniform. Straighten any bent fingers.
- Verify that blade shields (L) are installed on the new blade assembly (W).
- Place the new blade assembly (W) into the base frame (R) so that it is seated correctly and the sharp side up.
- Install the screws (I) into the front side of the blade assembly (W). Tighten until contact is made with the base frame (R). Turn the screw until tight, do not exceed 3/4 turn or 70 in. lbs.
- Place rubber washer (C) between the rear of the base frame (R) and the blade assembly (W). Insert the screws (I) through the base frame (R), and rubber washer (C) and into the blade assembly. Turn the screw (I) until tight, do not exceed 1/2 turn or 40 in. lbs.
- Slowly bring the pusher head (F) head down to the blades (W). If there is contact, the pusher head (F) may need to be adjusted. To adjust, loosen the locking collar set screws (K) and position then adjust the pusher head (F).
- Lubricate the guide bar with mineral oil or Petro Gel after each use. Do not use cooking oil as it will become sticky and may permanently damage the equipment.

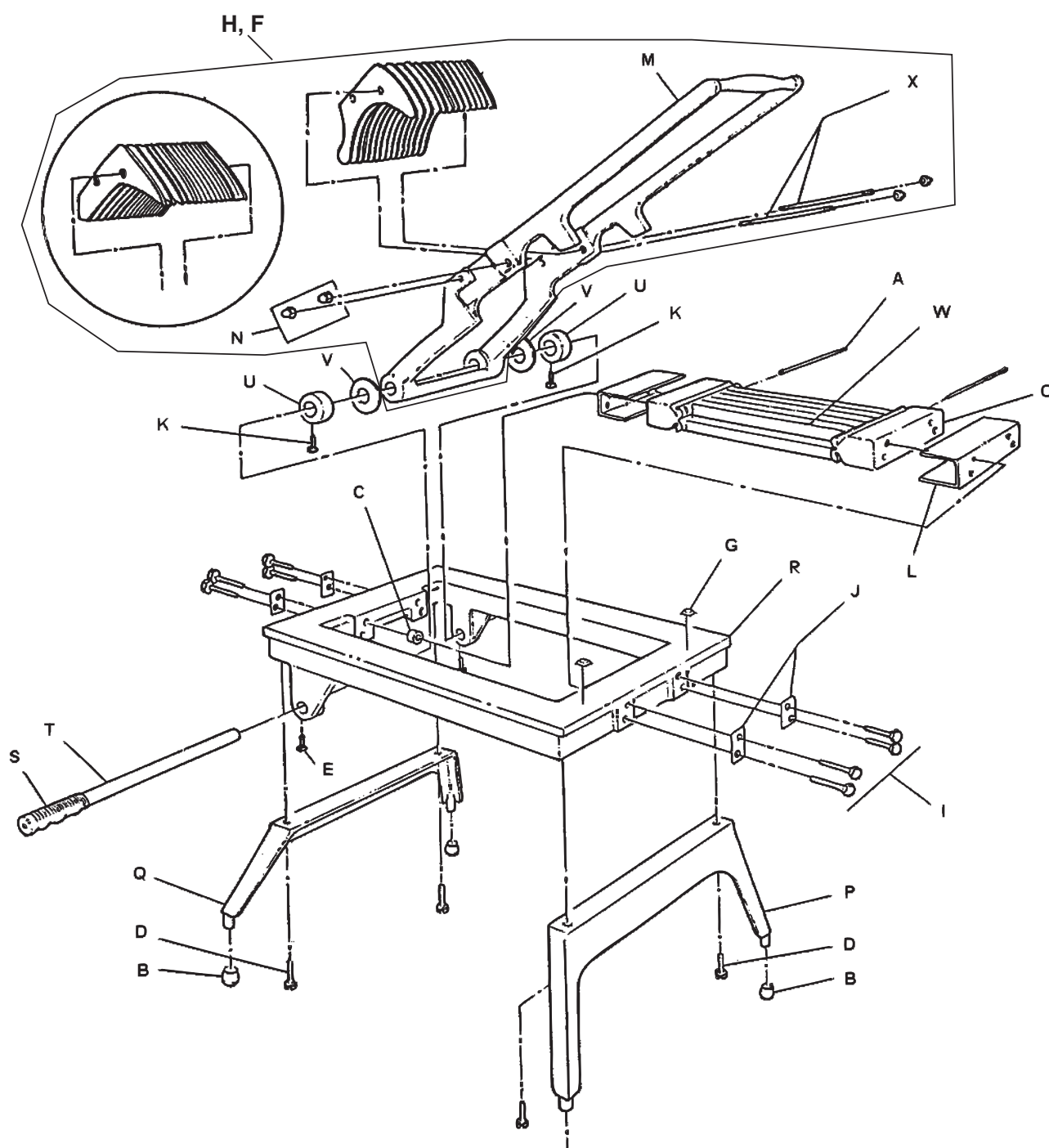
TROUBLESHOOTING

If the equipment no longer processes food cleanly or without damage to the food product, the blades could be dull and be in need of replacement. Broken, bent, or nicked blades must be replaced.

Problem	It might be caused by	Course of Action
Broken Blade.	Blades were dull.	Pre-score whenever possible to avoid undue shock and stress to blades. Replace blades

SPARE PARTS LIST - ONION KING®

LETTER	PART NUMBER	DESCRIPTION
A	047	BLADE BLOCK PIN (part of Blade Assembly) (NLA - order Blade Assembly)
B	060	RUBBER FOOT (Old Style)
	303	RUBBER FOOT, DEEP (New Style)
C	0655	NEOPRENE GASKET
D	414	SCREW, FIL. HEAD, 1/4-20 X 3/4"
E	4422R	SCREW, SQ. HEAD, 1/4-20 X 1/2"
F	504	PUSHER HEAD ASSEMBLY, 3/16" (includes 30 Spacers, 16 Fingers, 2 Rods, 4 Nuts M, X, N)
	505	PUSHER HEAD ASSEMBLY, 1/4 or 1/2" (includes 22 Spacers, 12 Fingers, 2 Rods, 4 Nuts M, X, N)
	515	PUSHER HEAD ASSEMBLY, 3/8" (includes 14 Spacers 8 Fingers, 2 Rods, 4 Nuts, M, X, N)
G	506	PUSHER HEAD BUMPER
H	507	PUSHER HEAD ASSEMBLY, 503SN (includes Spacers, Fingers, Rods, Nuts M, X, N)
I	5116	SCREW, HEX HEAD, 1/4-20 X 2", 3/8" ACROSS FLATS
J	5117	BEARING PLATE
K	5118	SCREW, SQ. HEAD, 1/4-20 X 1/2"
L	5120	DOUBLE BLADE BLOCK SHIELD FOR 3/16" AND 1/4" CUT, ALSO WITH BLADE ASSEMBLIES
	5121	SINGLE BLADE BLOCK SHIELD FOR 3/8" AND 1/2" CUT, ALSO WITH BLADE ASSEMBLIES
M	517	HANDLE CASTING
N	519	ACORN NUT (part of Pusher Head Assembly)
O	520	BLADE BLOCK, 3/16" CUT
	522	BLADE BLOCK, 1/4" CUT
	521	BLADE BLOCK, 3/8" CUT
	523	BLADE BLOCK, 1/2" CUT, 503N & 503SN
P	525	FRONT LEGS (Longest)
Q	526	REAR LEGS (Shortest)
R	554	BASE FRAME
S	555	VINYL GRIP
T	556	PIVOT ROD
U	558	PIVOT ROD LOCKING COLLAR
V	560	NYLON WASHER
W	509	BLADE ASSEMBLY 3/16" (includes 13 Blades, 2 Blocks, 4 Pins, 2 Shields)
	511	BLADE ASSEMBLY 1/4" (includes 11 Blades, 2 Blocks, 4 Pins, 2 Shields)
	510	BLADE ASSEMBLY 3/8" (includes 7 Blades, 2 Blocks, 2 Pins, 2 Shields)
	512	BLADE ASSEMBLY 1/2" includes 6 Blades, 2 Blocks, 2 Pins, 2 Shields)
X		FINGER RETAINING RODS (part of Pusher Head Assembly)



SERVICE AND REPAIR

Please contact Vollrath Technical Service from the list below.

VOLLRATH Technical Service • 1-800-628-0832
• Email: techservicereps@vollrathco.com

When contacting Vollrath Technical Service, please be ready with the model number, serial number, and proof of purchase showing the date the equipment was purchased.

WARRANTY STATEMENT FOR THE VOLLRATH Co. L.L.C.

This warranty does not apply to products purchased for personal, family or household use, and The Vollrath Company LLC does not offer a written warranty to purchasers for such uses.

The Vollrath Company LLC warrants each of its products listed below against defects in materials and workmanship for the applicable period provided below. All other products manufactured or distributed by The Vollrath Company LLC are warranted against defects in materials and workmanship for a period of one year. In all cases, the warranty runs from the date of the end user's original purchase found on the receipt. Any damages from improper use, abuse, modification or damage resulting from improper packaging during return shipment for warranty repair will not be covered under warranty.

- Vollrath – Redco® products – The warranty period is 2 years.
- Replacement parts – The warranty period is 90 days.

For complete warranty information, product registration and new product announcement, visit www.vollrath.com.



Technical Services: 800.628.0832
Service Fax: 920.459.5462

Canada Service: 800.695.8560

© 2014 The Vollrath Company, L.L.C.