

Patty-O-Matic, Inc.[®]
THE WORLD'S FINEST FOOD MACHINES

Model Protégé

**Owner's Manual and Part
List**



MADE IN THE

U. S. A.

Model Protégé Owner's Manual

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Thank you and congratulations on the purchase of your new Model Protégé Patty Molding Machine from Patty-O-Matic, Inc! The Model Protégé will form, interleave paper in between, and stack patties. This machine is designed for easy operation and cleaning. Please become familiar with this manual and your machine will give you many years of service.

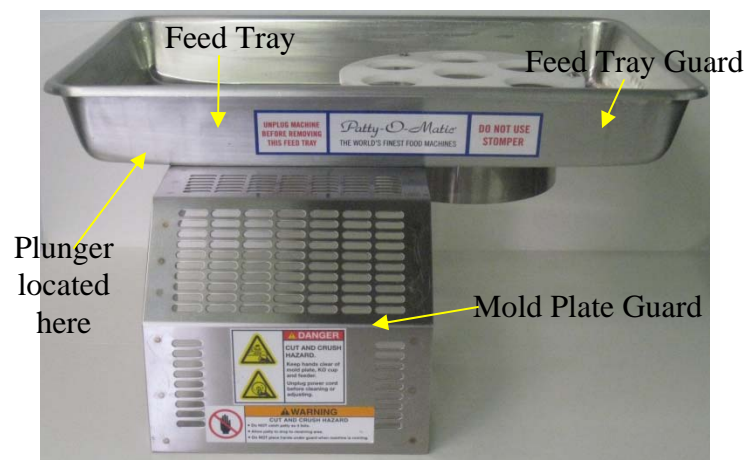
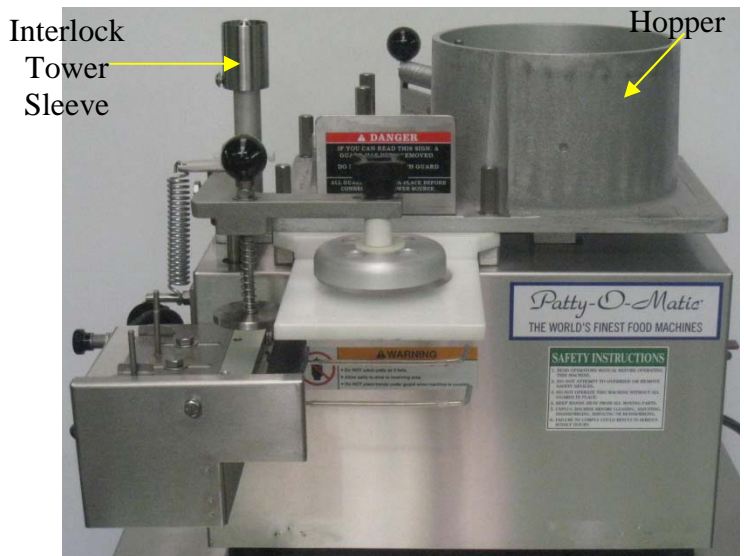
The Model Protégé is shipped to you in at least two cartons which contain the patty machine, feed tray complete with mold plate guard, parts box, receiving table, and this manual. If you purchased your machine with any other accessories, such as a mobile table or patty paper, these items may be in a separate carton. The parts box that comes with the machine should include a bottle of machine lubricant, a speed driver, samples of patty paper, and a spare parts kit.

Your machine is equipped with one interlock. This interlock is located on the top left side of the machine. The Feed Tray with the attached Mold Plate Guard must be installed on the machine to engage the interlock and allow the machine to run.

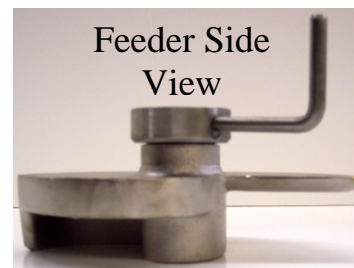
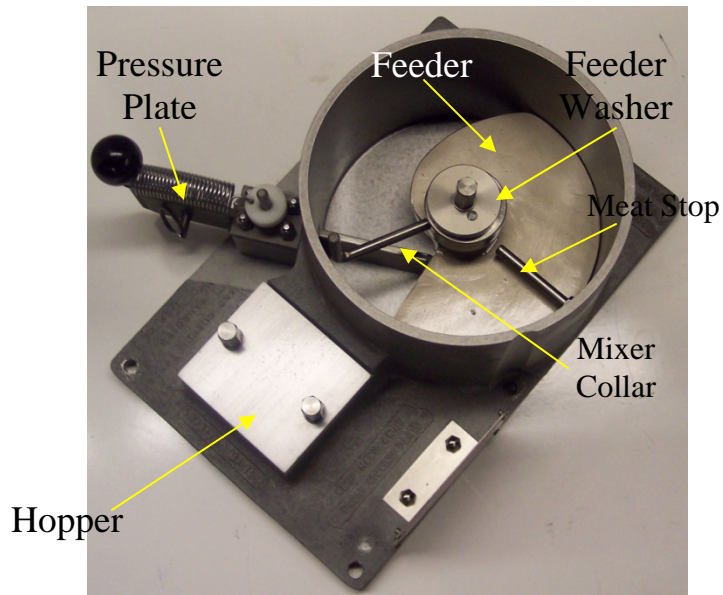
Installing the Feed Tray with the attached Mold Plate Guard

Place tube of Feed Tray over the Hopper. Line up the plunger that is located on the underside of the feed tray with the Tower Sleeve. This will activate the Interlock Tower located inside the Tower Sleeve of the Machine.

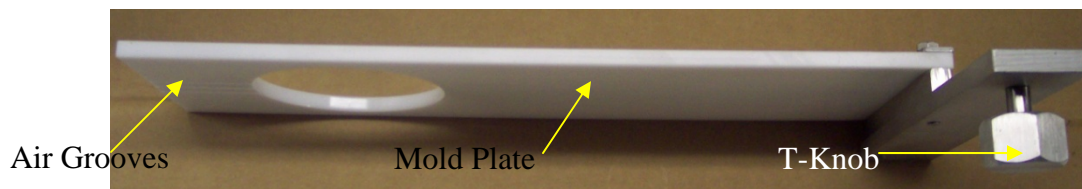
DO NOT ATTEMPT TO RUN THIS MACHINE WITHOUT THE FEED TRAY AND THE MOLD PLATE GUARD IN THEIR PLACE!! FAILURE TO DO SO COULD RESULT IN SERIOUS BODILY INJURIES!!



Please become familiar with some of the parts
of your machine prior to operation.



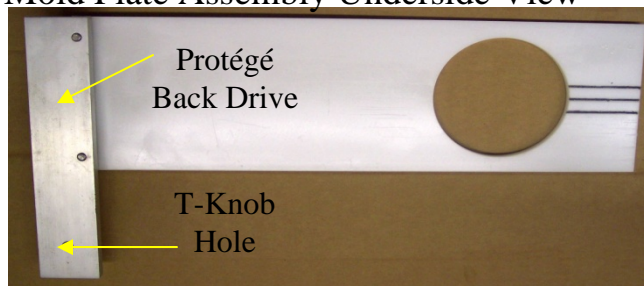
Protégé Mold Plate Assembly Side View



Transition Plate



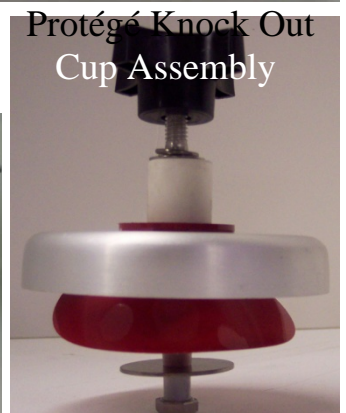
Mold Plate Assembly Underside View



Ring Pin Pressure Plate

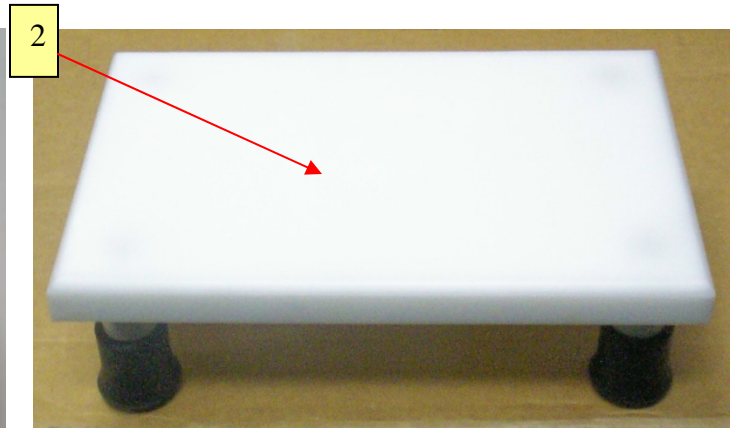


Feed Tray Guard and Mold Plate Guard are installed for your safety. Do not tamper with them in any way!



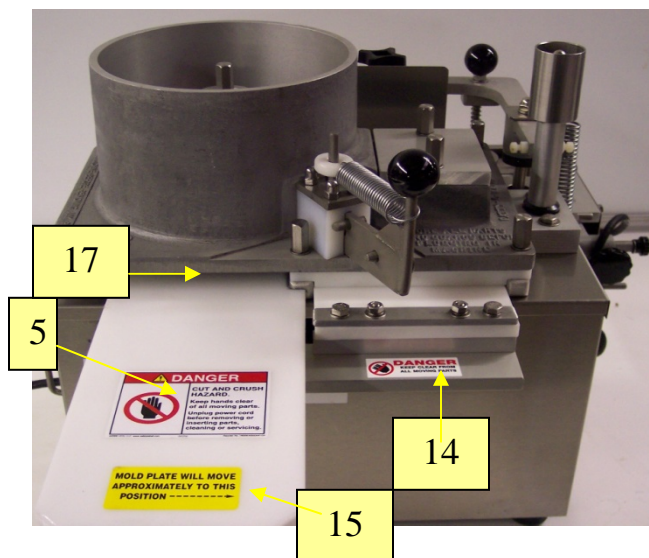
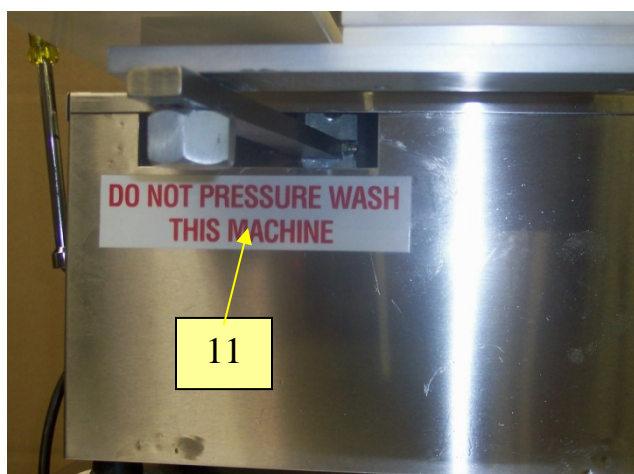
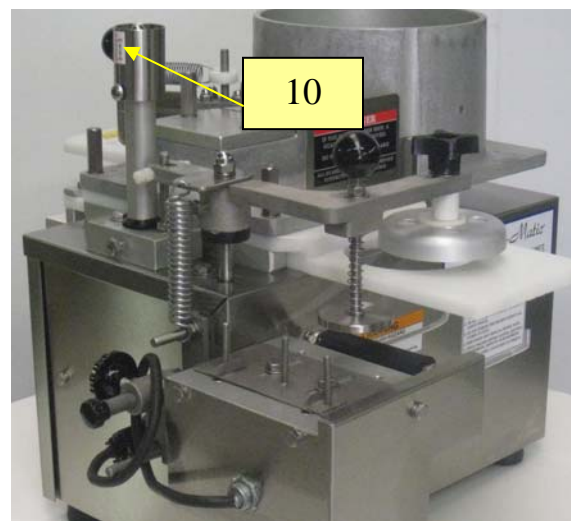
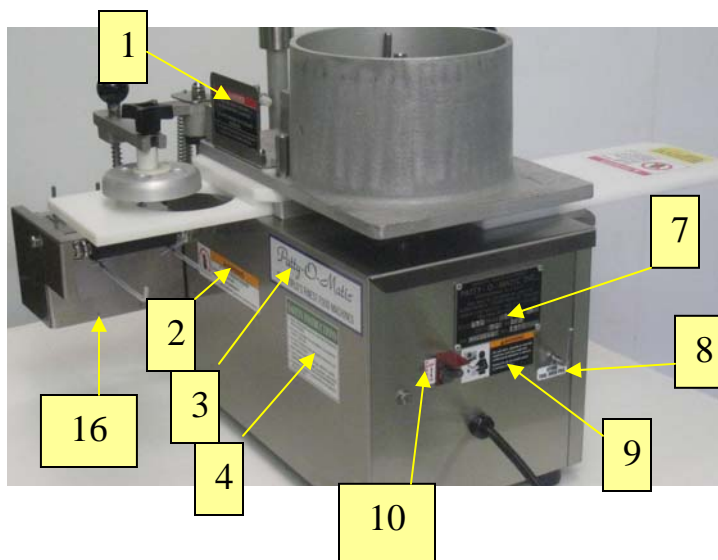
Accessories Equipped with the Model Protege


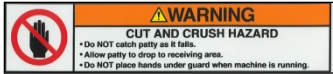
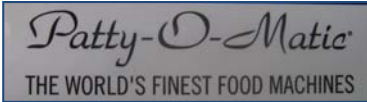





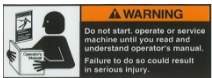



4







<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	Spare Parts Box Holds Spare Parts, Patty Paper Sample, Machine Lubricant, Speed Driver, and Locator Rings	655
2	Receiving Table	609-6
3	Speed Driver	544
4	Bottle of Machine Lubricant and Cleaner	600
5	Gallon Bottle of Machine Lubricant and Cleaner (Must be ordered separately, not included in shipment)	600A
6	Machine Locator Rings	610-2

Proper Label Location for a Model Protégé



<u>Item #</u>	<u>Description</u>		<u>Part #</u>
1.	Danger Label 3		514-09a
2.	Warning Orange		514-02
3.	Patty-O-Matic		514-08
4.	Warning		514-06
5.	Danger Label 1		514-03
6.	Danger Label 2		514-00
7.	Serial Tag		514-15
8.	Store Tool		514-14
9.	Warning Manual		514-01
10.	Danger On/Off		514-05
11.	Do Not Pressure Wash		514-04
12.	Unplug Machine		514-07

- | | | | |
|-----|------------------------|---|--------|
| 14. | Danger Keep Clear |  | 514-16 |
| 15. | Pro Position |  | 514-11 |
| 16. | Pro Risk |  | 514-17 |
| 17. | Pro If Sign is Visible |  | 514-14 |

Always Disconnect Machine From its Power Source Before Cleaning or Adjusting!

Proper Procedure for Operating a Model Protégé

When the Model Protégé is fully assembled with all guards secured in their proper place, put product in the Feed Tray. Push the product through and under the holes in the Feed Tray Guard into the hopper opening. **DO NOT PUT HANDS OR FINGERS, OR FOREIGN OBJECTS, SUCH AS STOMPERS OR PLUNGERS INTO THE HOPPER. THERE ARE NO STOMPERS OR PLUNGERS NEEDED WHEN USING THIS UNIT, THEREFORE NONE ARE SUPPLIED.** After you allow product to drop into hopper turn the machine on by moving the On/Off switch down towards the on position. The machine may need to cycle a few times to prime the machine with product. As patties are being formed continue to push product through the holes and under the Feed Tray Guard. Patty paper may be added to the machine as needed. The machine can hold up to 1 inch (Approx. 250 double laminate sheets) of paper at a time.

As the Mold Plate moves back and forth to form patties, a thin coating of product may accumulate over its surface. This coating may also accumulate on the edges of the Knock Out Cup or on the front of the hopper and spacer plate. This accumulation occurs on all molding machines, it is nothing to be concerned with. There are certain machine settings that may lessen this accumulation.

Setting the Ring Pin Pressure Plate for your Patty Size

The Purpose of the Pressure Plate is to entrap the amount of product necessary to form your patty. This part is also used in controlling the firmness of your patty. With the Pressure Plate set correctly you will in turn have:

- less leakage, oozing, and coating of parts
- less kneading of your product
- and less strain on your machine.

If your patty weight is 8 ounces, keep the ring pin in the storage hole as described in the picture. This will allow the Pressure Plate to move all the way into the hopper and stop into the welded stop which is the maximum setting.

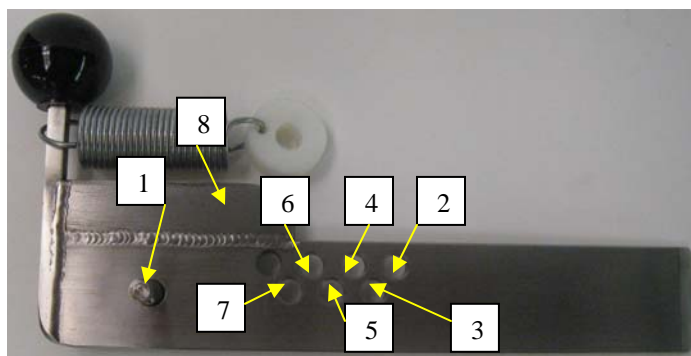
If your patty is 4 ounces remove the ring pin from the storage hole and place it in the 4 ounce hole.

If you patty weight is to be 6 ounces, place the ring pin in the 6 ounce hole.

If you would like to have a tightly packed patty, move the ring pin to a higher than recommended setting for that particular weight.

THESE ARE ONLY RECOMMENDED SETTINGS. A VARIETY OF CIRCUMSTANCES MAY CALL FOR YOU TO INSERT THE RING PIN IN A DIFFERENT LOCATION.

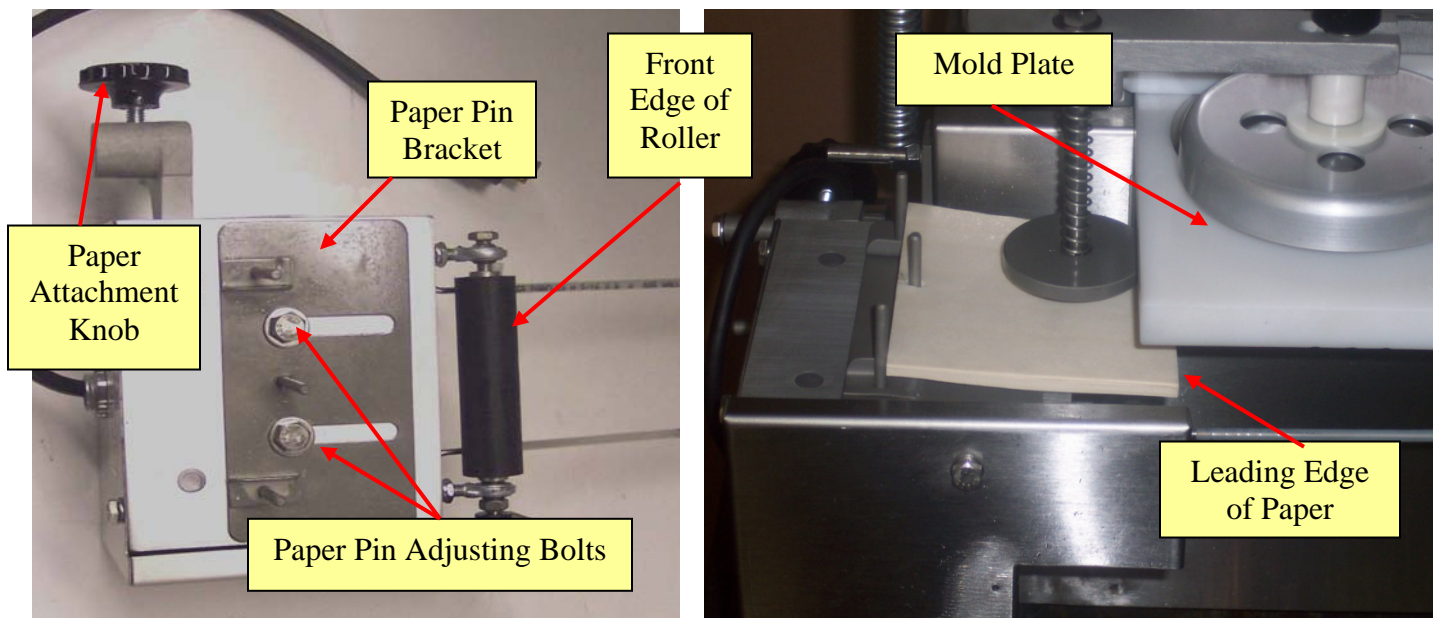
- | |
|------------------------------|
| 1 - Ring Pin in storage hole |
| 2 - 2 ounce hole |
| 3 - 3 ounce hole |
| 4 - 4 ounce hole |
| 5 - 5ounce hole |
| 6 - 6 ounce hole |
| 7 - 7 ounce hole |
| 8 - 8 ounce welded stop |



Adjusting the Paper Attachment for different size paper

1. The Paper Pin Bracket must be adjusted left or right for different size paper. Using the Speed Driver provided with the machine loosen the Paper Pin Adjusting Bolts and slide the Paper Pin Bracket one way or the other for the different size paper. To avoid improper paper feeding, the correct setting is to have the leading edge of the paper in line with the front edge of the roller.

2. The entire Paper Attachment can also move left or right for paper centering. Loosen the Paper Attachment Knob and slide the Paper Attachment itself. The set collar located on the shaft that supports the Paper Attachment may need to be loosened to move the Paper Attachment towards the mold plate.

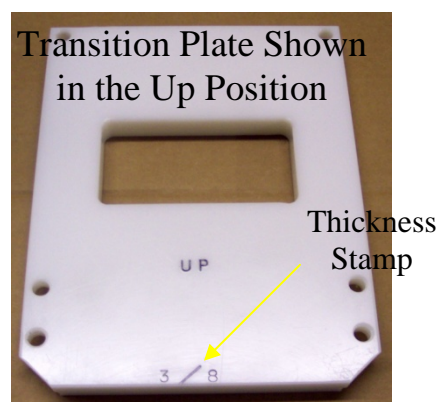
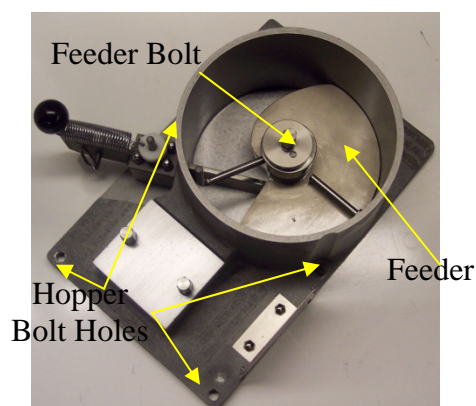
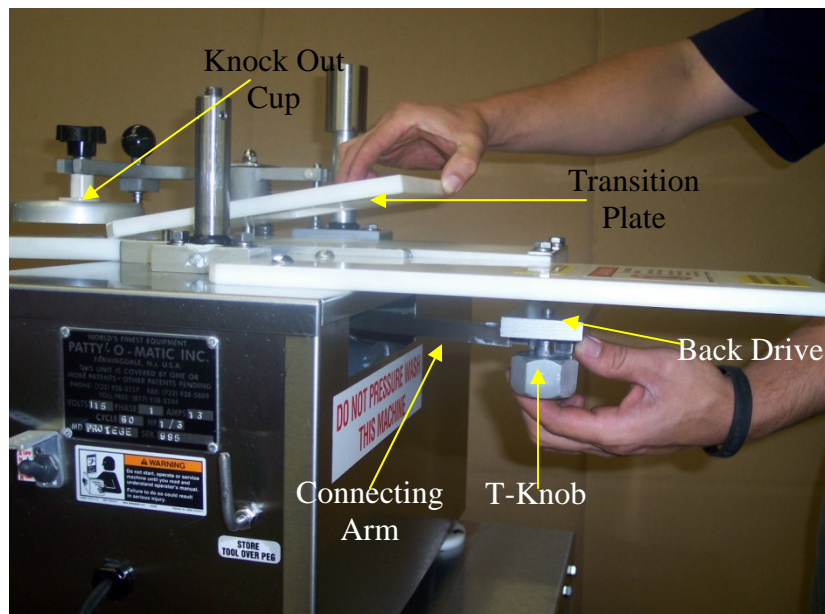


Changing Your Machine's Mold Plate

Always disconnect the machine from its power source before attempting to change or clean any of the machine's component parts.

First remove the T-Knob from the Back Drive of the Mold Plate, then pull the Mold Plate out from the rear of the machine. If you prefer, remove the Mold Plate from the machine without removing the T-Knob from the Back Drive. Simply unhook Connecting Arm from the T-Knob and slide the Mold Plate from the rear of the machine.

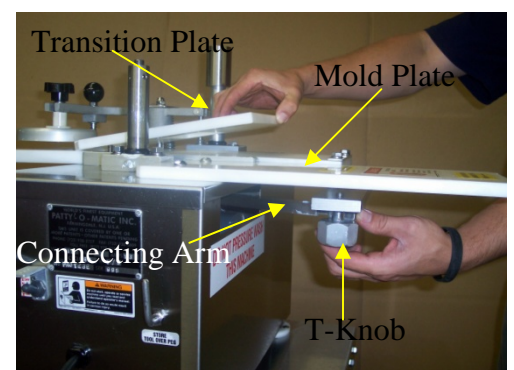
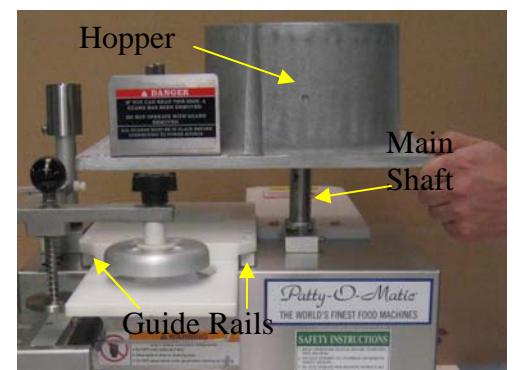
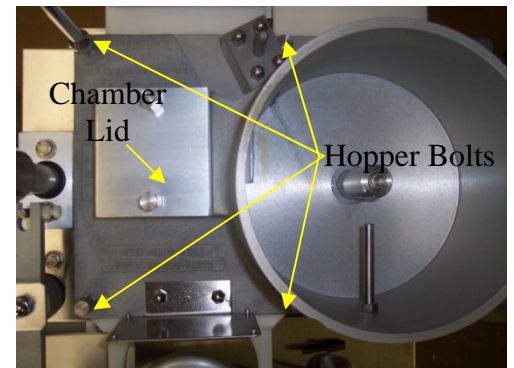
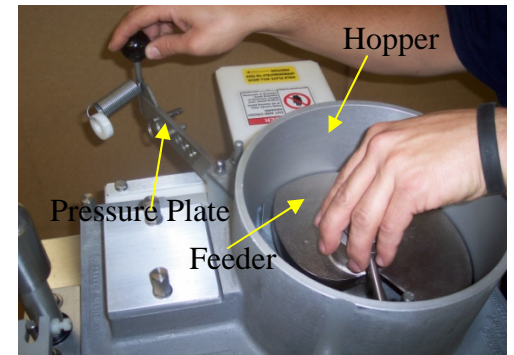
When changing the Mold Plate always use the corresponding Transition Plate. The thickness fraction stamped on the Transition Plate should match the fraction stamped on the front right corner of the Mold Plate. For example: if your Mold Plate is stamped "4F 1/2" then the Transition Plate should be stamped "1/2". The Transition Plate is removed by removing the four Hopper hold down Bolts and the Feeder Hold Down Bolt. Once these bolts are removed lift the Feeder from the Hopper and the hopper from the machine. Once the Hopper and Feeder are removed lift the Transition Plate and replace it with a different size. Make sure the fraction that is stamped on the Transition plate is facing the front of the machine. After putting the new Transition Plate in place replace the Hopper and Feeder, then install the same thickness mold plate. Be sure to replace the Knock Out Cup to match the new Mold Plate size.



Proper Disassembly for Cleaning a Patty-O-Matic Model Protégé

Always Unplug Machine From its Power Source Before Cleaning!

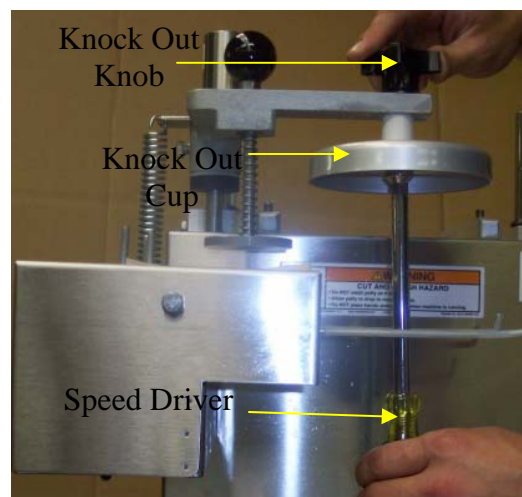
- Remove Feed Tray with attached Mold Plate Guard from the Machine.
- Remove Pressure Plate by detaching spring and sliding Pressure Plate from the inside of the hopper. Remove Feeder by unscrewing hold down bolt with the speed driver, and removing feeder washer from the machine. Lift Feeder from the inside of the Hopper.
- Remove the Four Hopper Bolts using the speed driver provided. The two bolts on the Chamber Lid may be removed for additional cleaning if needed.
- Remove Hopper by lifting it straight up and off the Main Shaft of the Machine
- After the Hopper is removed from the machine remove the Transition Plate from the top of the Guide Rails. Occasionally the Transition Plate may stick to the bottom of the Hopper.
- Remove the Mold Plate by disconnecting the Connecting Arm from the T-Knob. This will allow the mold plate to be removed from between the Guide Rails of the machine. The T-Knob may also be unscrewed from the Back Drive as an alternate means of disconnecting the Mold Plate from the Connecting Arm.



- Remove Knock Out Cup by loosening the Knock Out Knob while holding the other end of the bolt with the speed driver.

- All of the parts that were removed from the machine can now be washed and sanitized thoroughly. The cleaning solution should be 50 parts per million chlorine, but no more than 200 parts per million. The machine itself should be cleaned and sanitized by hand using a cloth or sponge. Steel parts should be coated in mineral oil for added protection.

This Machine Should Not Be Hosed Down or Pressure Washed To Clean!



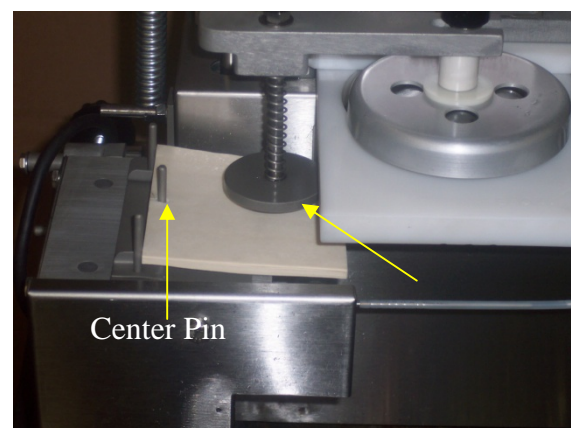
***To Re-Assemble the Machine reverse the above procedure. Hopper Bolts should only be hand-tightened with the tool provided.**

***The Knock Out Cup should be installed on the machine after all other parts are in place. The Mold Plate should be all the way forward and the Knock Out Arm should be in the down position for the cup to align properly with the mold plate.**

Installing Patty Paper on the Interleaver

Place a stack of paper no thicker than one inch under the Pressure Foot. Slide hole in the stack of paper over the center pin on the interleaver.

***Placing more than one inch of paper on the pin may cause improper feeding.**



Points of Daily Lubrication For A Patty-O-Matic Model Protege:

Always Unplug Machine and use Food Approved Oil and Grease!

The Following Parts should be lubricated daily to ensure proper machine maintenance

- Pressure Foot should be lifted up and oiled. Grab Ball Knob and lift up. Place a few drops of oil on the shaft of the Pressure Foot. (Patty-O-Matic food approved oil only.)

- Knock Out Shaft should be oiled when the Knock Out Arm is in the up position. The picture shown displays the Arm in the up position.

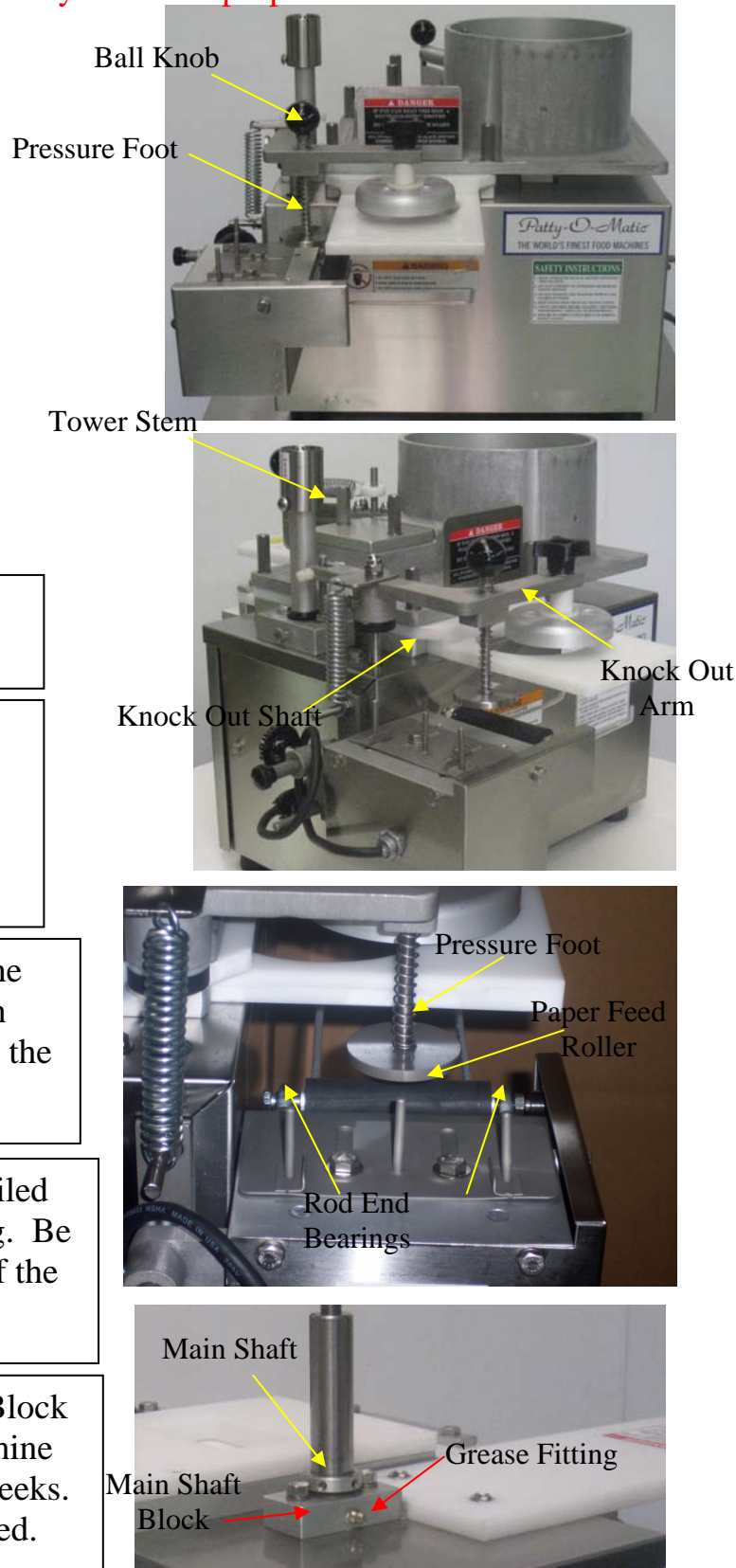
- Tower Stem should be oiled when the Feed Tray is removed as shown.

- Rod End Bearings should be oiled with a few drops of oil. Remember that there are two Rod End Bearings to be oiled. Do Not allow oil to drip onto the Paper Feed Roller.

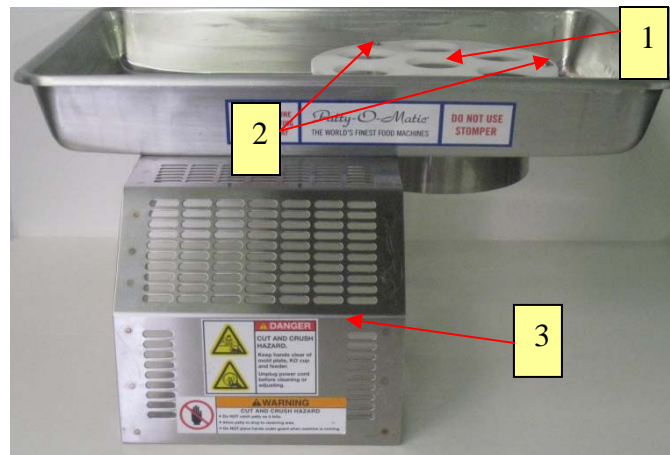
- Main Shaft should be oiled when the machine is disassembled as shown in picture. Be sure to oil the bottom by the Main Shaft Block.

- The inside of the machine can be oiled through the Rear Inspection Opening. Be sure not to get oil on the drive belt of the machine or the motor.

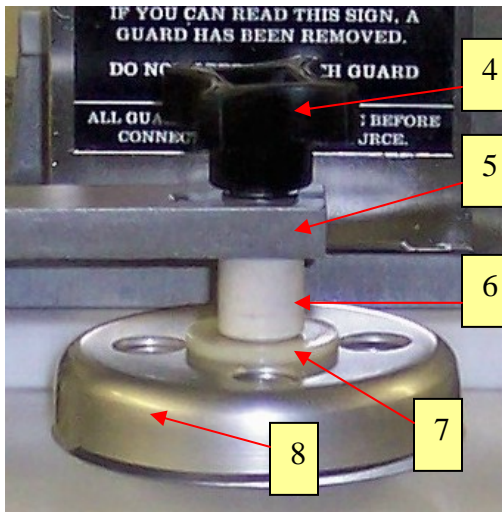
- The Grease Fitting in Main Shaft Block and the Connecting Arm of the machine should be greased once every two weeks. 3 or 4 shots of grease is recommended.



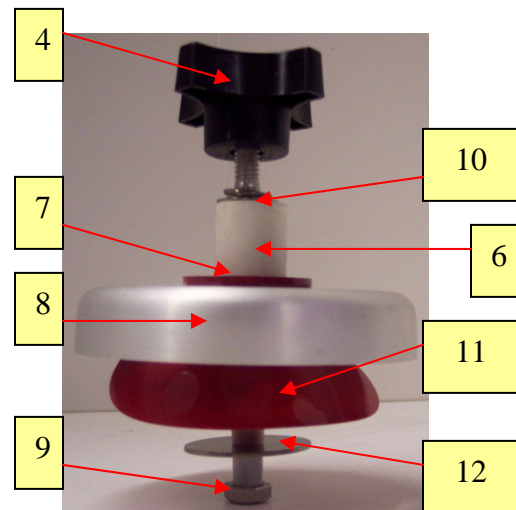
Feed Tray with attached Mold Plate Guard



Knock Out Cup Assembly

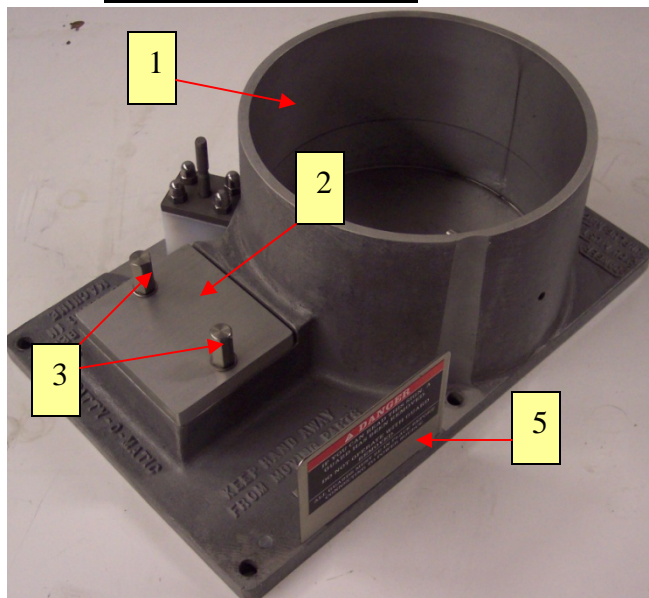
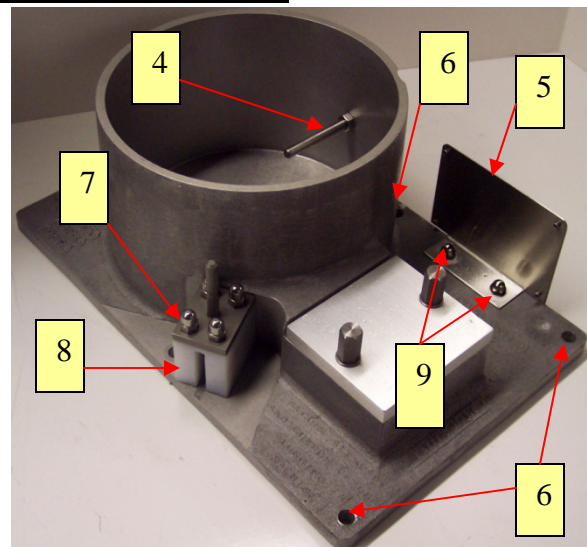
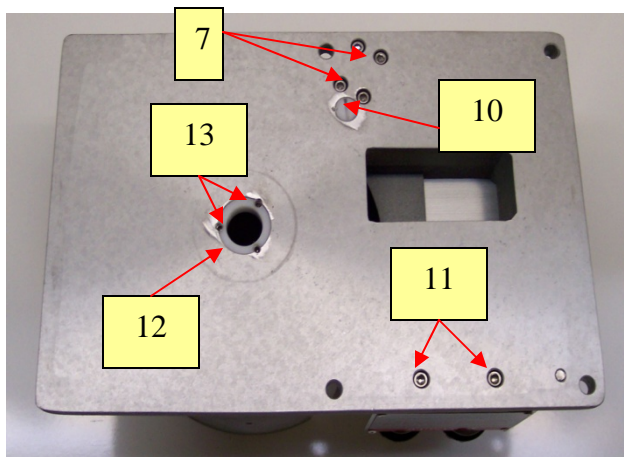
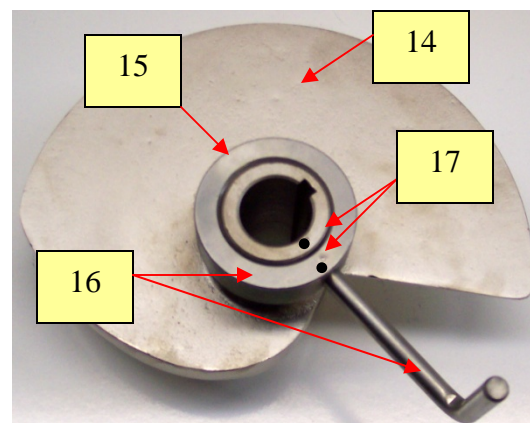


Knock Out Cup Exploded View

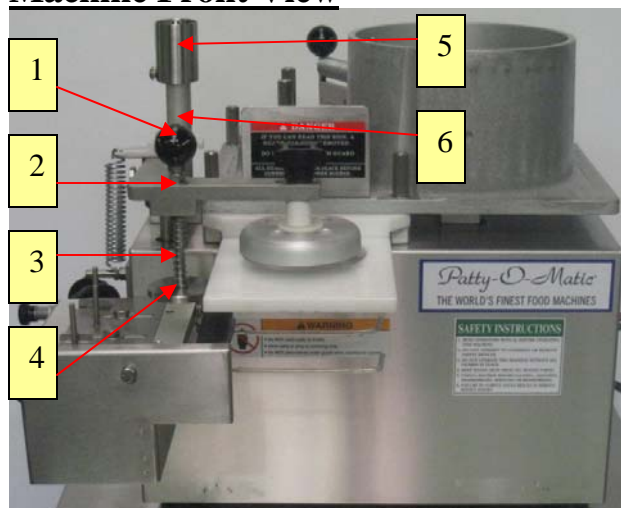
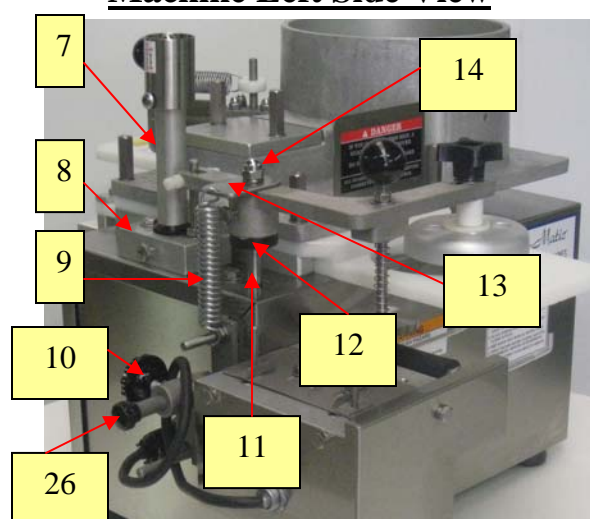
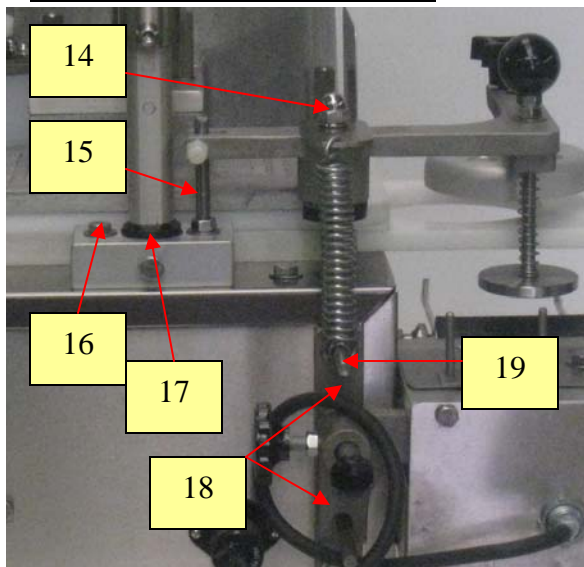
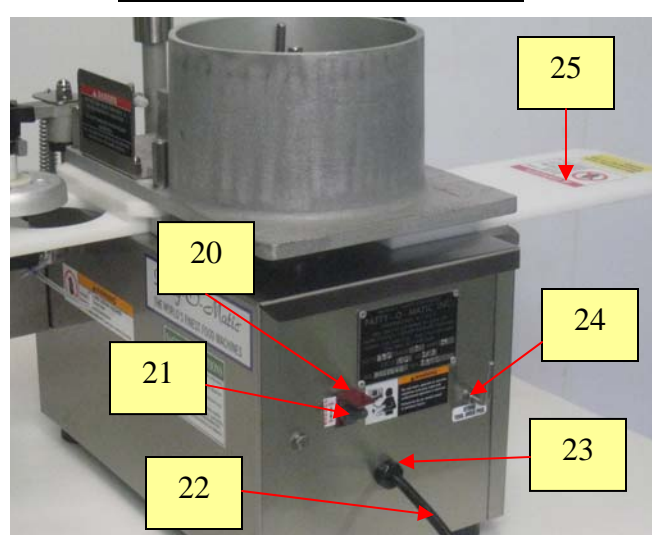


*Knock Out Cup Hardware is also sold as an assembly.
 -Knock Out Cup Assembly w/ Hardware is Part #571
 -Knock Out Cup Hardware **Only** is Part #571-H1

<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	Feed Tray Guard Assembly	543
2	Feed Tray Guard Hardware	541-B
3	Protégé Mold Plate Guard and Hardware	PRO550
4	Knock Out Knob	571-1
5	Protégé Knock Out Arm(partial view)	PRO502
6	Knock Out Cup Spacer	571-3
7	Knock Out Cup Plastic Washer (pictured in red)	571-6
8	Round Knock Out Cup Only	571-1
9	Knock Out Cup Bolt	571-9
10	Knock Out Cup Flat Washer and Lock Washer	571-8
11	Knock Out Air Valve (shown in red for visual affect)	571-4
12	Knock Out Cup Fender Washer	571-10

Hopper Front View**Hopper Rear View****Hopper Bottom View****Feeder Top View**

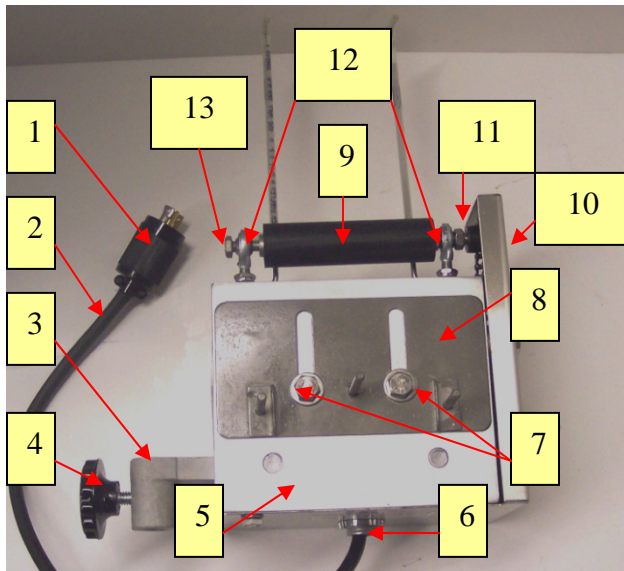
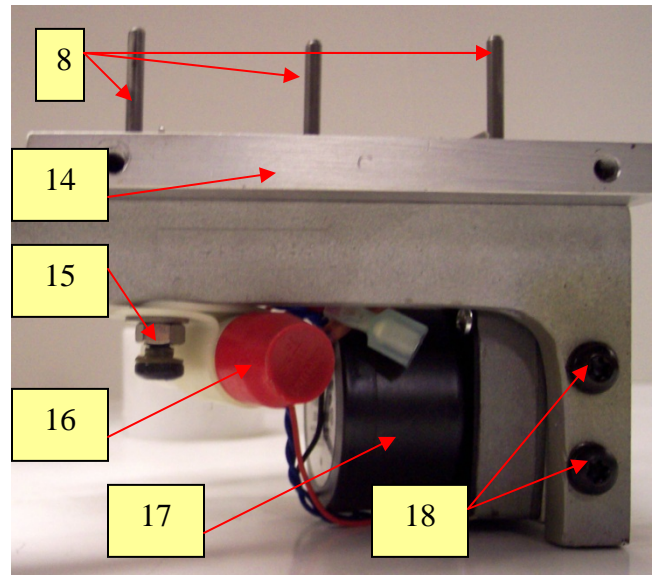
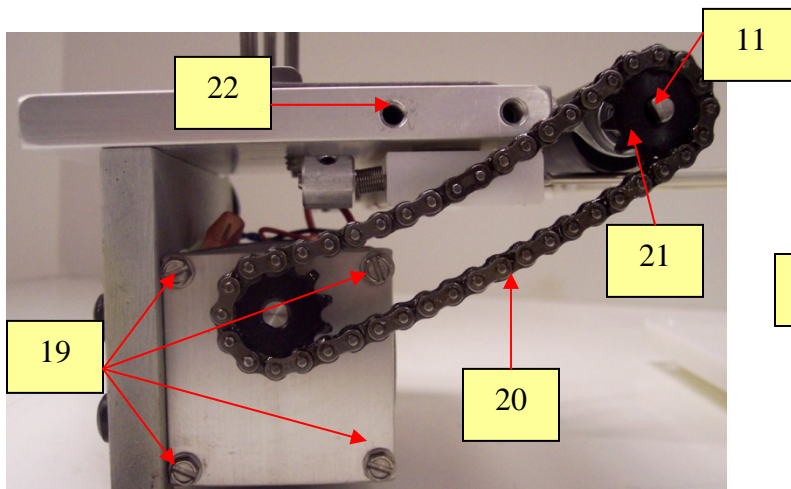
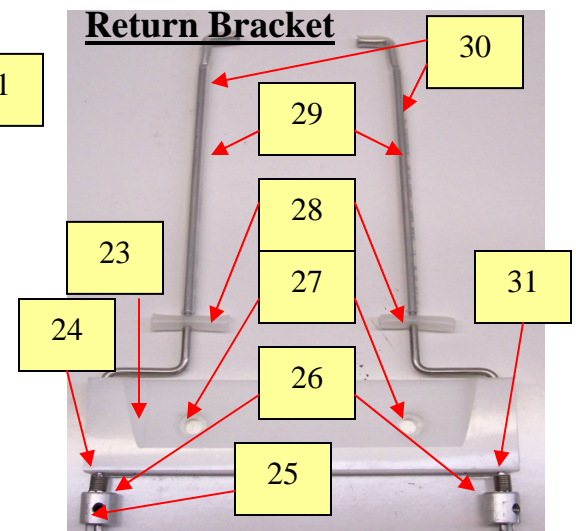
<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	Hopper Casting	545
2	Chamber Lid	545-A
3	Protégé Hold Down Bolt (6 required)	PRO556-1
4	Meat Stop	555
5	Protégé Guard Sign	PRO551B
6	Hold Down Holes (4)	N/A
7	Pressure Plate Block Hardware Location	548-C
8	Pressure Plate Block	547
9	Protégé Guard Sign Hardware	PRO551C
10	Hopper Threaded Plug	607
11	Protégé Sign Guard Hardware	PRO551C
12	Hopper Nylon Bushing	603
13	Hopper Nylon Bushing Set Screw (3 required)	604
14	Feeder	557
15	Mixer Collar Set Screw	559
16	Mixer Collar	558
17	Witness Marks (one on Feeder and one on Mixer Collar)	N/A

Machine Front View**Machine Left Side View****Machine Right Side View****Machine Right Side View**

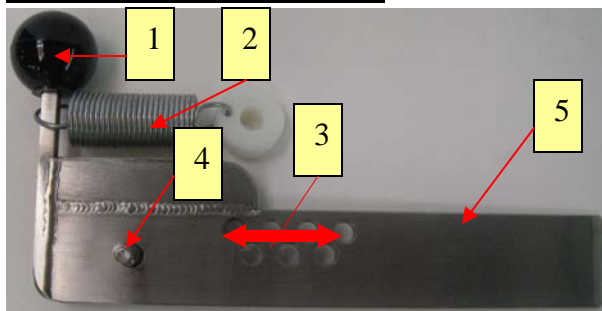
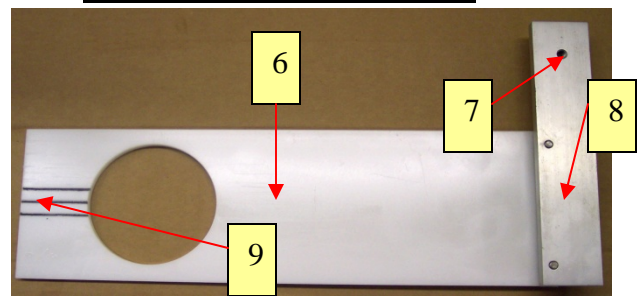
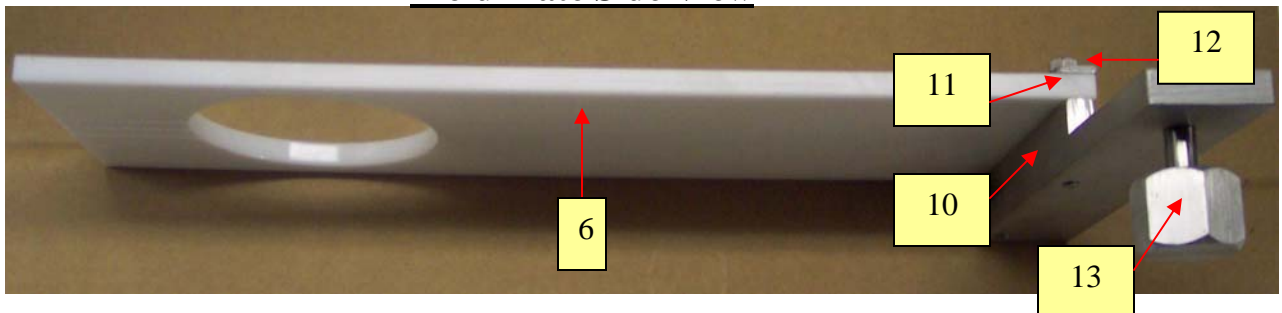
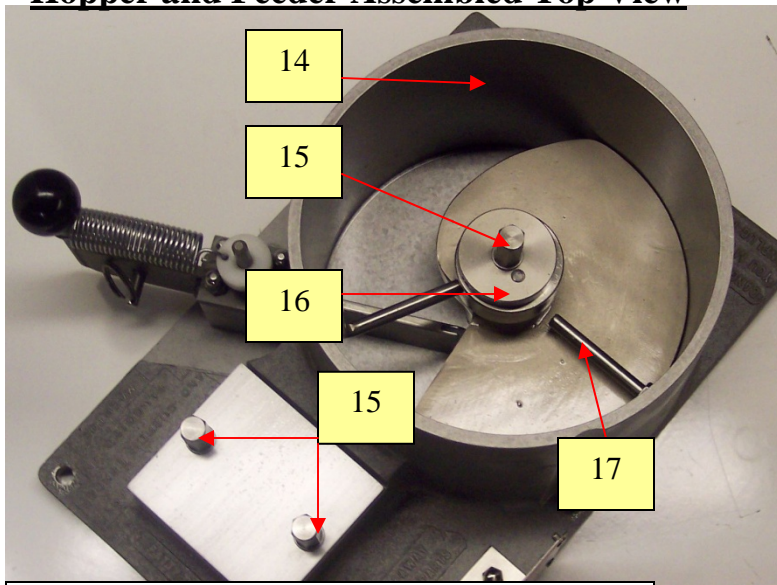
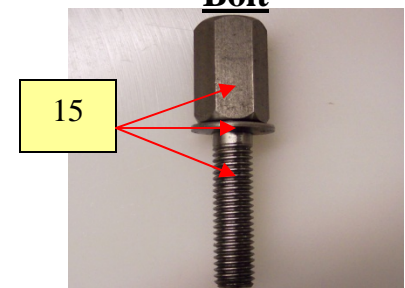
<u>Item #</u>	<u>Description</u>	<u>Part #</u>
1	Pressure Foot Ball Knob	506B
2	Protégé Knock Out Arm	PRO502
3	Pressure Foot Spring	508
4	Protégé Pressure Foot	PRO506-2
5	Protégé Tower Sleeve	PRO620-06
6	Protégé Tower	PRO620-07
7	Protégé KO Guide Nylon Hdwr	PRO502A
8	Tower Block	PRO620-08
9	Knock Out Spring	490
10	Protégé Paper Interleaver Knob	PRO519-1
11	Protégé Knock Out Shaft	PRO449
12	Large Knock Out Bumper	504
13	Knock Out Spring Tab	498C

<u>Item#</u>	<u>Description</u>	<u>Part#</u>
14	Knock Out Shaft Nut & Lockwasher	503
15	Protégé Guide Rod and Hdwr.	PRO502D
16	Protégé Tower Block Hardware	PRO620-09
17	Shaft Seal	PRO620-1
18	Protégé Paper Attachment Bracket	PRO497
19	Protégé Knock Out Spring Stud	PRO490A
20	On/Off Switch Guard	501
21	On/Off Switch Boot	500B
22	Power Cord	115-01
23	Wire Grommet	487
24	Tool Holder	601
25	Travel Indicator Plate	999
26	Protégé Paper Int. Knob	PRO497B

Note: Many parts are also sold as assemblies.

Paper Interleaver Top View**Paper Interleaver Motor View****Paper Interleaver Side View****Return Bracket**

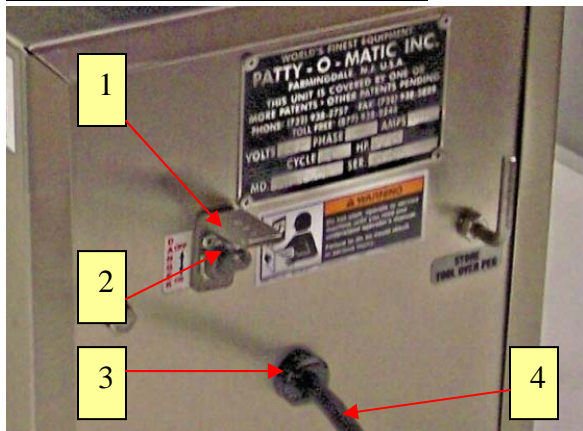
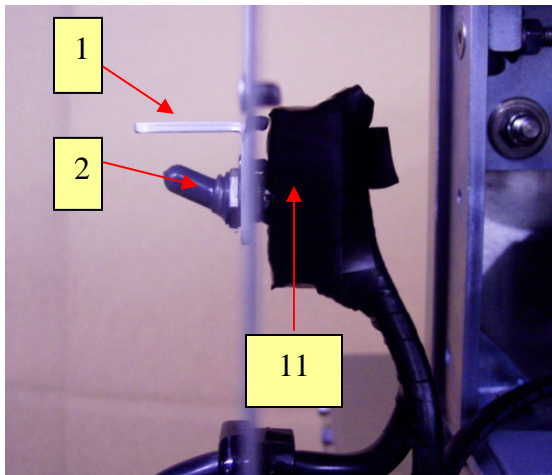
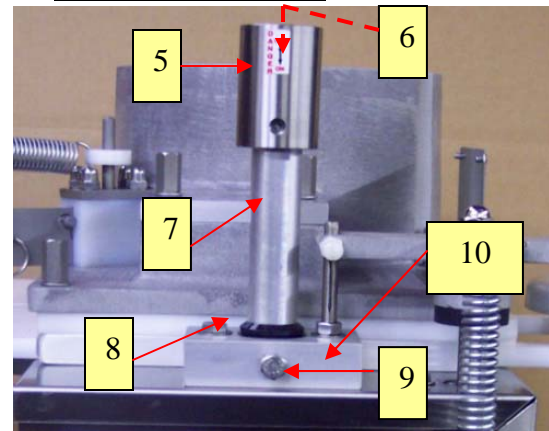
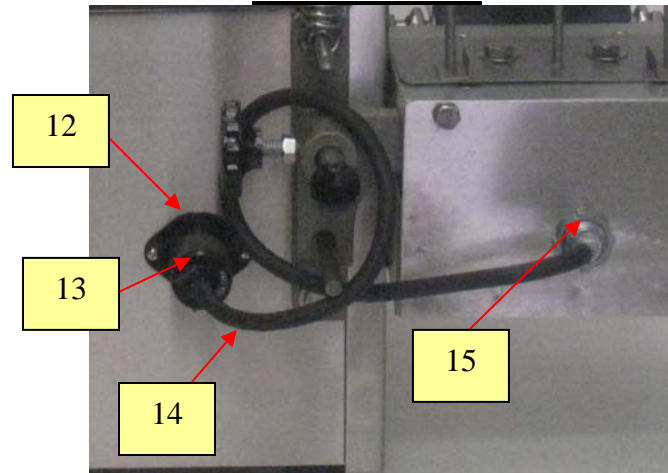
<u>Item #</u>	<u>Description</u>	<u>Part #</u>	<u>Item#</u>	<u>Description</u>	<u>Part#</u>
1	Protégé Paper Interleaver Plug	PRO115-04A	16	Protégé PI Capacitor Assembly	PRO516C
2	Protégé Paper Motor Cord	PRO115-04	17	Protégé Paper Interleaver Motor	PRO516
3	Protégé Paper Interleaver Casting	PRO519	18	Motor Block Hardware	PRO516-2
4	Protégé Interleaver Knob	PRO519-1	19	Protégé Paper Motor Mounting Hardware(Set of 4)	PRO516-3
5	Protégé PI Main Plate Bolts (2)	PRO519C	20	Protégé PI Chain and Link	PRO516B
6	Romex Connector	496	21	Protégé PI Sprocket	PRO516A
7	Paper Pin Adjusting Hardware(2)	PRO539	22	Protégé Spacer bolt(not shown)	PRO537-1
8	Protégé Paper Pin Plate	PRO524	23	Pivot Rod Support Bracket	243
9	Protégé Paper Feed Roller	PRO521	24	Left Return Spring	246L
10	Protégé Stainless Steel Paper Interleaver Cabinet	PRO537	25	Set Screw(One in each collar)	245
11	Protégé Rod End Screw w/ Flat	PRO522B	26	Spring Adjusting Collar(2)	244
12	Rod End Bearing	522	27	2 Return Bracket Mounting Screws	249
13	Protégé Rod End Bolt	PRO522C	28	Paper Stop	248
14	Protégé PI Main Plate	PRO519B	29	Stainless Steel Paper Pivot Rod	247
15	Protégé Paper Interleaver Capacitor Clamp and Bolt	PRO516D	30	Paper Sleeve Stop	248A
			31	Right Return Spring	246R

Ring Pin Pressure Plate**Mold Plate Bottom View****Mold Plate Side View****Hopper and Feeder Assembled Top View****Feeder Washer w/
attached bolt &
Shear Pin****Hold Down
Bolt**

<u>Item #</u>	<u>Description</u>	<u>Part #</u>
1	Pressure Plate Ball Knob	546D
2	Pressure Plate Spring c/w Collar	549
3	Ring Pin Adjustment Holes	N/A
4	Ring Pin(shown in the storage hole)	546C
5	Ring Pin Pressure Plate	546-3
6	Round Mold Plate	563-1
7	T-Knob Hole	N/A
8	Protégé Back Drive Only	PRO564
9	Air Grooves (colored for visual)	N/A
10	Protégé Back Drive Spacer	PRO568
11	Back Drive Clamp	568
12	Protégé Back Drive Clamp Hdwr.	PRO568A

<u>Item #</u>	<u>Description</u>	<u>Part #</u>
13	T-Knob	567
14	Hopper Casting	545
15	Protege Chamber Bolts (2)	PRO556-1
16	Feeder Washer with Attach Bolt	561A
17	Meat Stop	555
18	Shear Pin	562

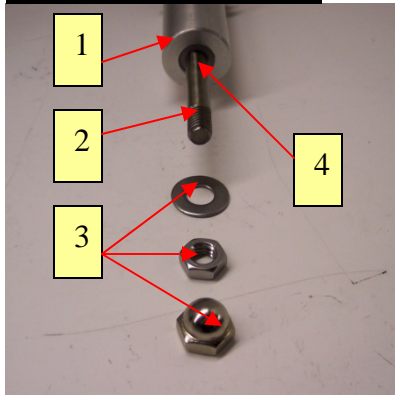
Part # PRO563 - Mold Plate Assembly
 -Includes Round Mold Plate,
 Protégé Back Drive Assembly and
 Knock Out Cup Assembly

On/Off Switch Front View**On/Off Switch Interior View****Tower Side View****Interleaver Receptical
Machine View**

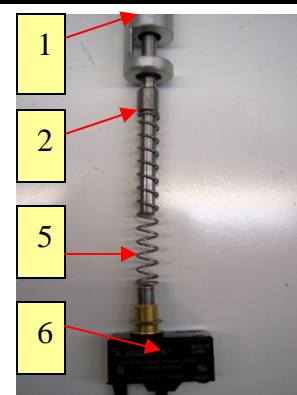
<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	On/Off Switch Guard	501
2	On/Off Switch Boot	500B
3	Wire Grommet	487
4	Power Cord	115-01
5	Tower Sleeve	PRO620-06
6	Protégé Tower Jam Nut, Acorn Nut, and Washer	PRO620-02
7	Protégé Tower	PRO620-07
8	Protégé Tower Block Hardware	PRO620-09
9	Protégé Tower Block Screw	PRO620-10
10	Tower Block	PRO620-08
11	On/Off Switch (shown insulated in electrical tape)	500
12	Protégé Interleaver Receptical	PRO115-04B
13	Protégé Paper Interleaver Plug	PRO115-04A
14	Protégé Paper Motor Cord Assembly	PRO115-04
15	Romex Connector	496

**Note: Many other parts are also sold
as assemblies.**

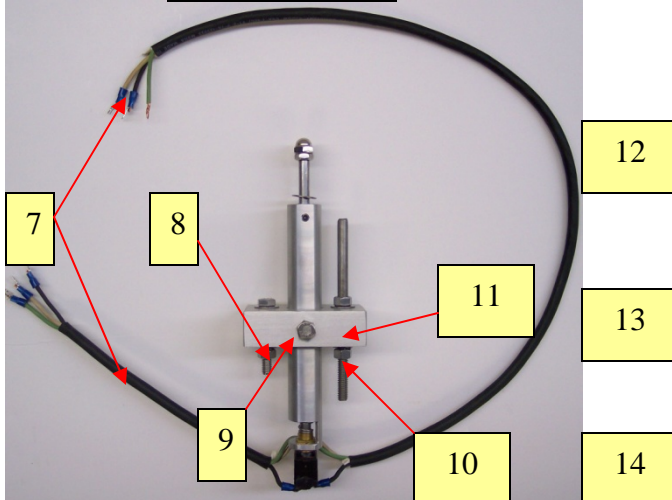
Tower Assembly
Exploded Top View



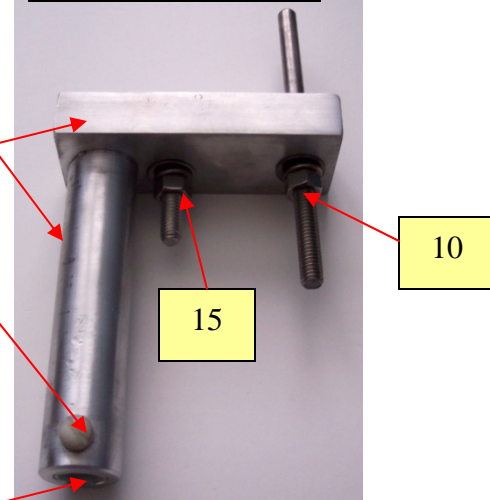
Tower Assembly
Exploded Bottom View



Tower Assembly
Machine View



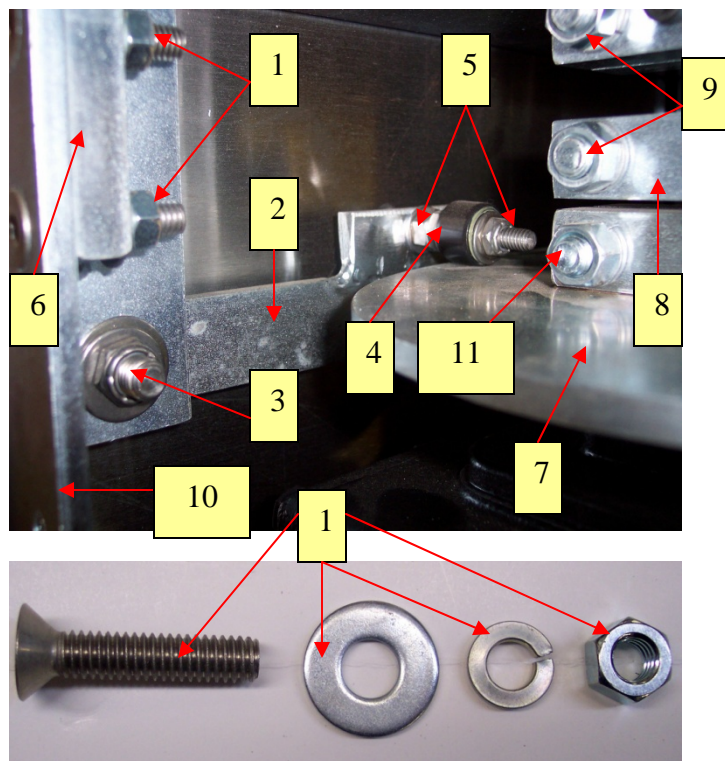
Protégé Knock Out Shaft
Tube and Support



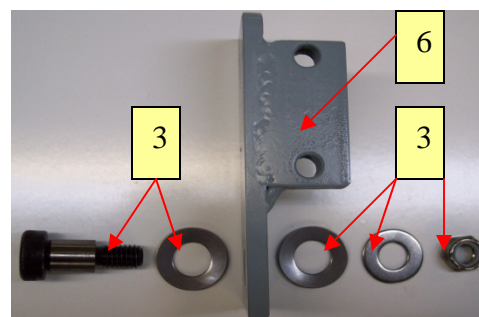
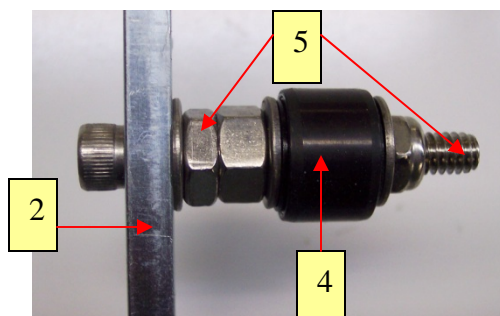
<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	Protégé Tower	PRO620-07
2	Tower Stem	620-3
3	Protégé Tower Stem Hardware	PRO620-02
4	Protégé Feed Tray Safety Interlock Bushing	PRO620-03
5	Protégé Tower Spring	PRO620-05
6	Tower Switch	620-10B
7	Protégé Wire Harness	PRO620-15
8	Protégé Tower Block Hardware	PRO620-09
9	Protégé Tower Block Screw	PRO620-10
10	Protégé Guide Rod and Hardware	PRO502D
11	Tower Block	PRO620-08
12	Protégé Knock Out Shaft Tube and Support	PRO460
13	Protégé Knock Out Bushing Screw	PRO460A
14	Protégé Knock Out Shaft Bushing(pressed in tube)	PRO462
15	Protégé Knock Out Tube Hardware	PRO460B

Note: Many parts are also sold as assemblies.

Protégé Knock Out Lever Interior View



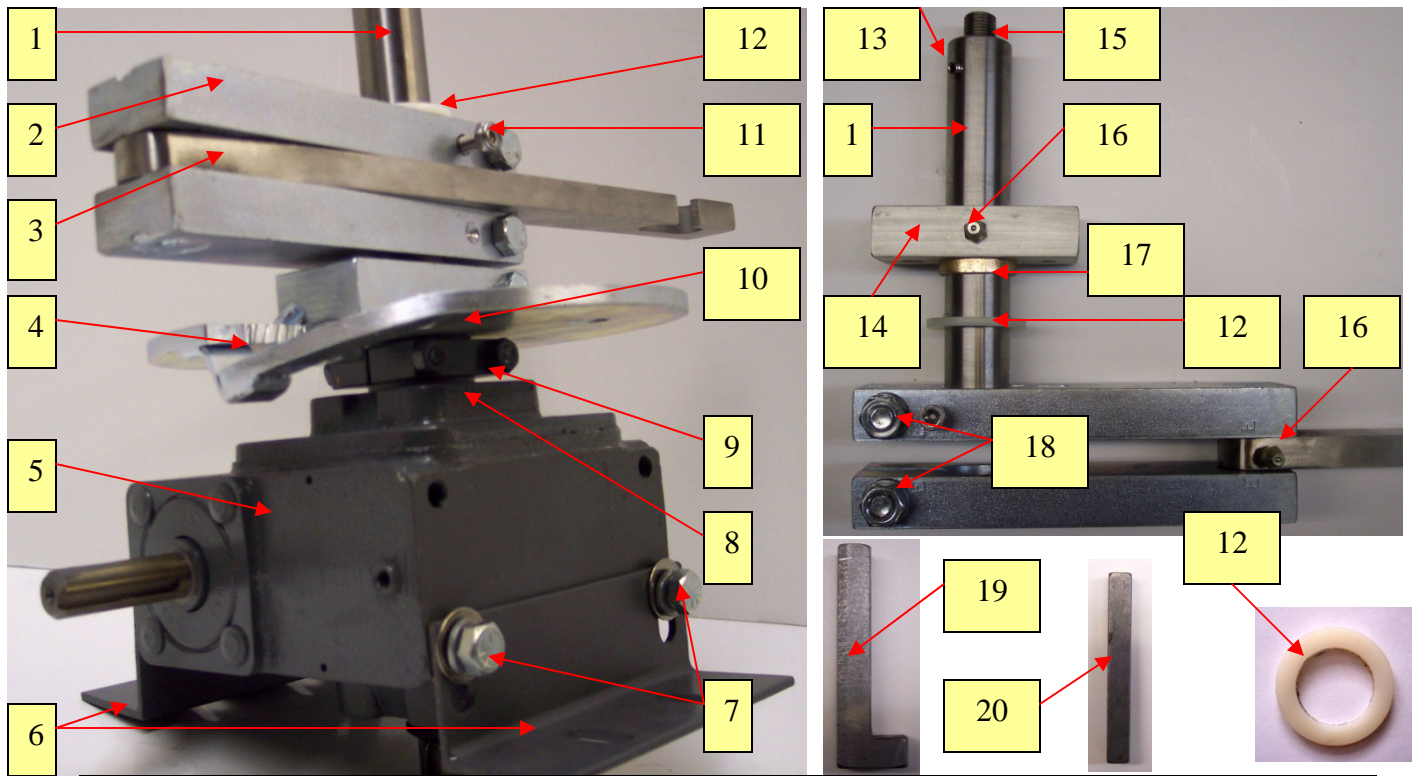
Cam Bearing and Lever Block



<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	Protégé Knock Out Lever Block Hardware	PRO450B
2	Protégé Knock Out Lever	PRO450
3	Protégé Knock Out Lever Hardware	PRO451
4	Cam Follower Bearing	474
5	Protégé Cam Bearing Hardware	PRO475
6	Protégé Knock Out Lever Block	PRO450A
7	Protégé Knock Out Cam	PRO472
8	Protégé Crank-Connecting Arm Assembly	PRO455
9	Protégé Crank-Connecting Arm Hardware(2 Required)	PRO455-1
10	Protégé Machine Frame	PRO445
11	Protégé Cam Bolt and Hardware	PRO472-1

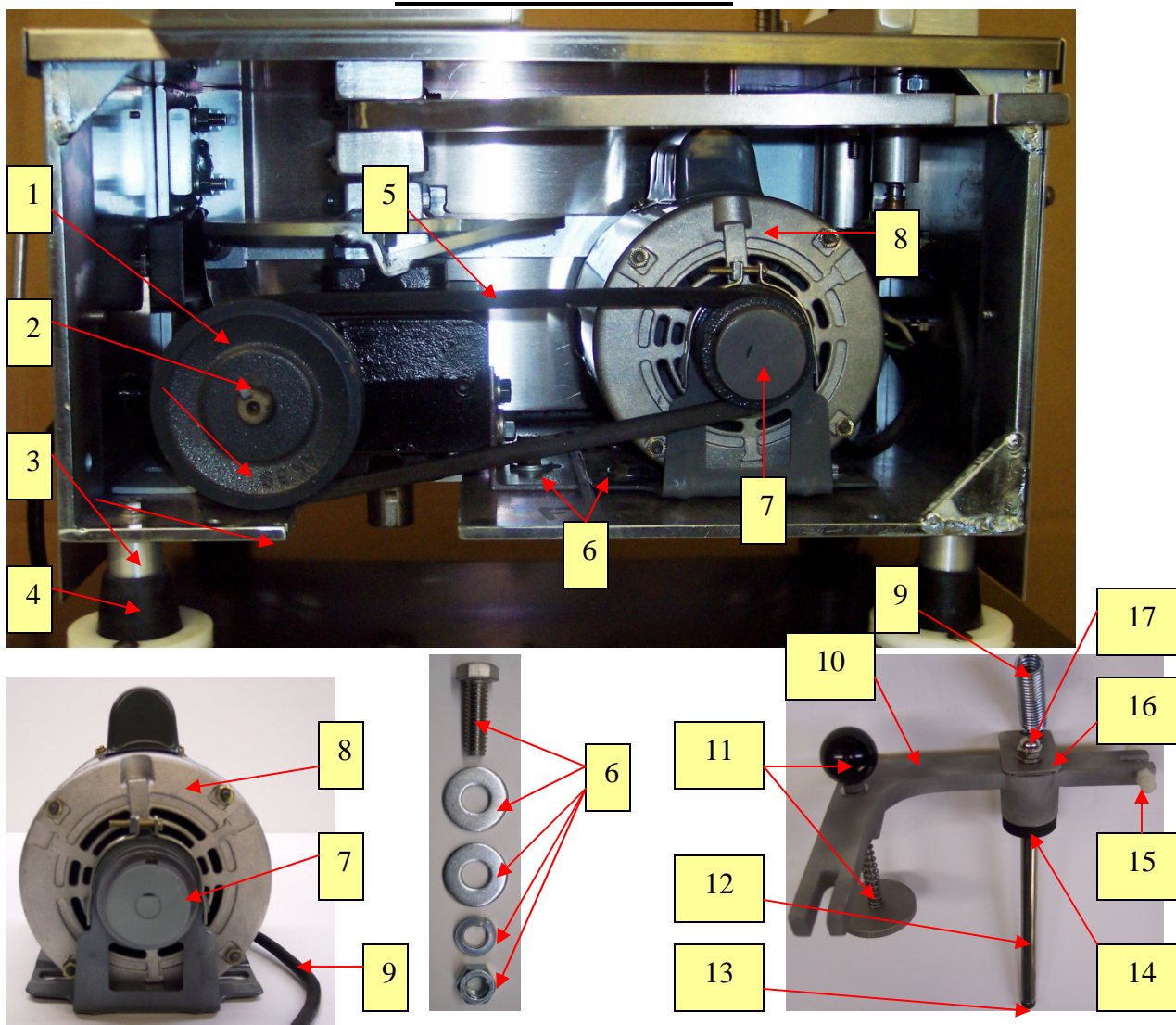
Note: Many parts are also sold as assemblies.

Transmission and Main Shaft Assembly



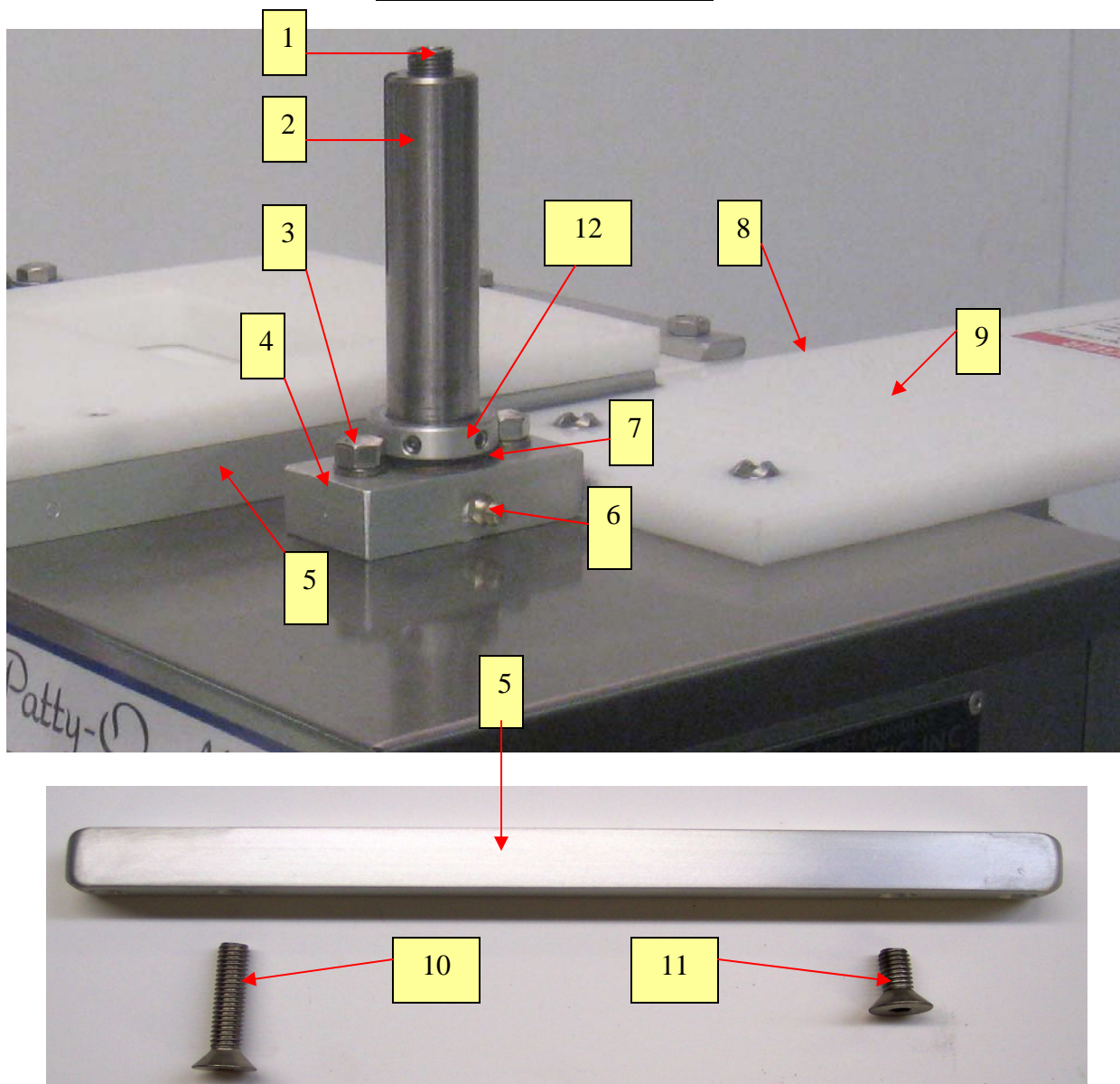
<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	Protégé Main Shaft w/ Insert and Set Screw	PRO464
2	Protégé Crank-Connecting Arm Assembly	PRO455
3	Protégé Connecting Arm	N/A
4	Protégé Knock Out Cam	PRO472
5	Protégé Transmission	PRO484A
6	Protégé Transmission Brackets (Set of 2)	PRO484B
7	Protégé Transmission Bracket Hardware (Set of 4)	PRO484C
8	Protégé Thick Cam Thrust Washer	PRO472A
9	Protégé Cam Spacer Clamp	PRO472C
10	Protégé Thin Cam Thrust Washer	PRO472B
11	Protégé Main Shaft Drive Bolt and Nut	PRO464-1D
12	Protégé Main Shaft Thrust Washer	PRO469-1
13	Protégé Main Shaft Insert Set Screw	PRO464-1A
14	Protégé Main Shaft Block c/w Bushing	PRO464A
15	Protégé Main Shaft Insert	PRO464-1
16	Protégé Grease Fitting	PRO464B
17	Protégé Main Shaft Block Bushing	PRO464C
18	Protégé Crank-Connecting Arm Hardware(2 Required)	PRO455-1
19	Protégé L-Key	PRO452A
20	Protégé Transmission Pulley Drive Key	PRO484C1

Machine Interior View



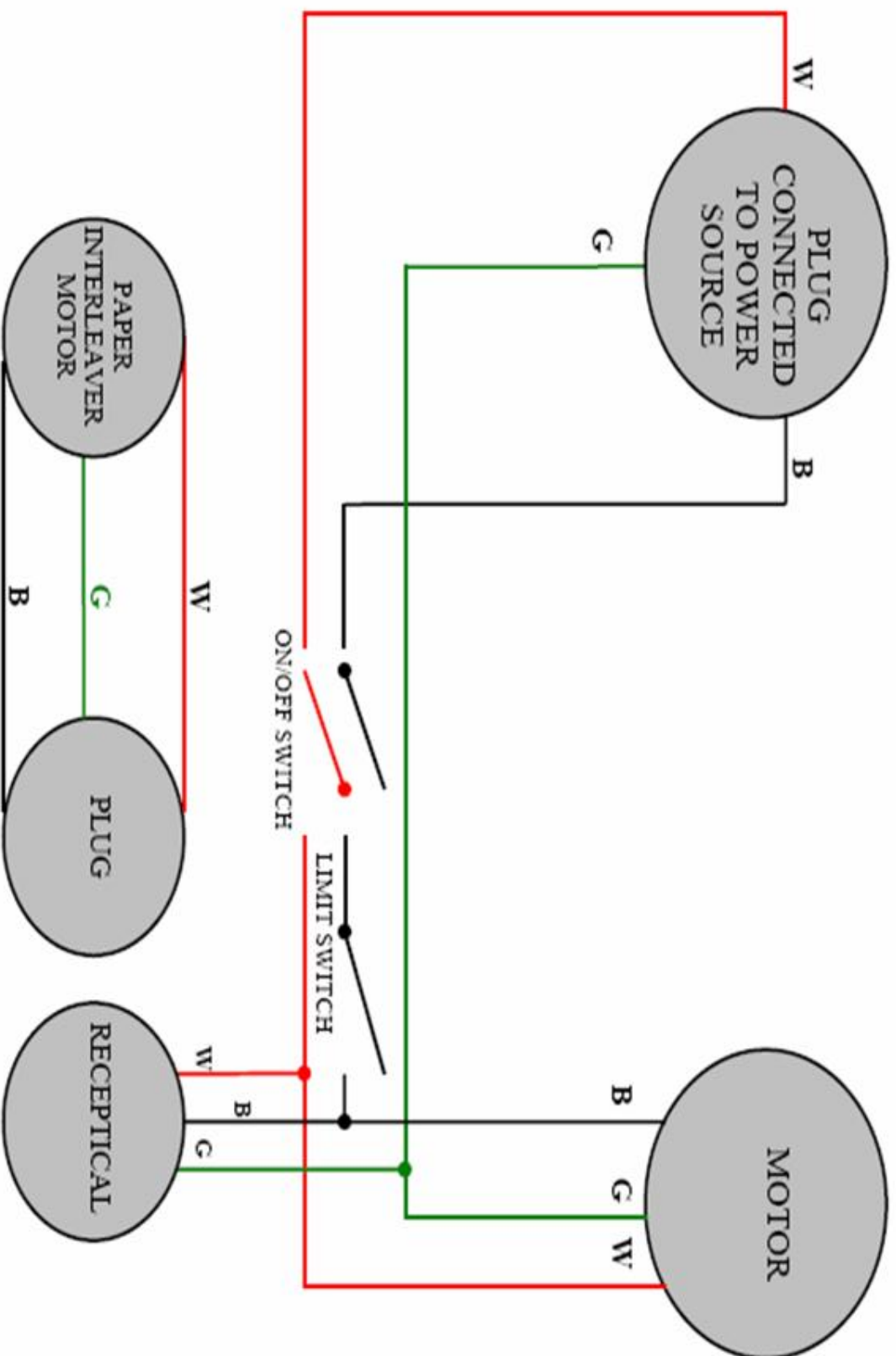
<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	Protégé Transmission Pulley	PRO484C
2	Protégé Transmission Pulley Drive Key	PRO484C1
3	Protégé Machine Leg and Rubber Foot with Hardware	PRO446C
4	Set of 4 Protégé Rubber Feet	PRO448
5	Protégé V-Belt	PRO471
6	Motor/Transmission Fastening Hardware(Set of 4)	PRO484-1
7	Protégé Motor Pulley	PRO465
8	Protégé Main Motor	PRO484
9	Knock Out Spring	490
10	Protégé Knock Out Arm	PRO502
11	Protégé Pressure Foot Assembly	PRO506A
12	Protégé Knock Out Shaft	PRO449
13	Protégé Knock Out Shaft Adjusting Hardware	PRO449A
14	Large Knock Out Bumper	504
15	Protégé KO Guide Nylon Hardware	PRO502A
16	Knock Out Spring Tab	498C
17	Knock Out Shaft Acorn Nut and Lockwasher	503

Machine Exterior View



<u>Item#</u>	<u>Description</u>	<u>Part #</u>
1	Protégé Main Shaft Insert	PRO464-1
2	Protégé Main Shaft w/ Insert and Set Screw	PRO464
3	Protégé Main Shaft Block Hardware	PRO464D
4	Protégé Main Shaft Block c/w Bushing	PRO464A
5	Guide Rail (2 Required)	494
6	Protégé Grease Fitting	PRO464B
7	Hopper Bushing Set Collar O-Ring	PRO603E
8	Travel Indicator Plate	999
9	Travel Indicator Plate Screws	999A
10	Long Protégé Guide Rail Bolts (2)	PRO495A
11	Short Protégé Guide Rail Bolts (2)	PRO495B
12	Hopper Bushing Set Collar	PRO603D

Protégé Wiring Diagram



W=White/Neutral

B=Black/115VAC

G=Ground