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TECHNICAL MANUAL

POTATO and VEGETABLE PEELERS MODELS S-15, XC-15, XC-30, XC-60

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LIMITED WARRANTY

Your new Blakeslee machine is warranted for one year from date of installation shown above* against defective materials and workmanship. If any defects are found within the above period, parts and authorized service involved with their replacement will be furnished free of charge. All labor to be performed during regular working hours. One-time premium will be charged to the customer. All warranty parts are shipped by surface transportation. If other means of transportation is requested, the customer is required to pay the premium charge. This warranty does not apply to damages resulting from errors in installation on the part of other contractors, nor does it apply to machines which have been subject to accident, alteration, misuse or abuse. It is understood that Blakeslee's warranty obligation with respect to machines located outside of the United States or located in the state of ALASKA is limited to the furnishing of replacement parts only. In the state of HAWAII, repair labor is provided free of charge. Travel time and expenses paid by the customer. On the island of Oahu, repair labor, travel time and expenses are provided free of charge. This is the entire and only warrants of G. S. Blakeslee & Co. We neither assume nor authorize anyone else to assume for us any other obligation or liability in connection with Blakeslee machines. G. S. Blakeslee & Co.

CHAPTER 1**SECTION****SUGGESTED SPARE PARTS PEELER**

| QTY. | PART NUMBER | DESCRIPTION |
|-------------|--------------------|-----------------------|
| A/R | M-1-15260 | Toggle Switch 1-Phase |
| A/R | P-1-1.7203 | Toggle Switch 2-Phase |
| 3 | P-1-15211 | V-Belt |
| 1 | P-1-5274 | Cil Seal |
| 1 | P-1-17225 | Bearing |
| 1 | P-1-17224 | Bearing Cup |
| 1 | P-1-5253 | Spacer |
| 1 | P-2-5225 | Shaft |

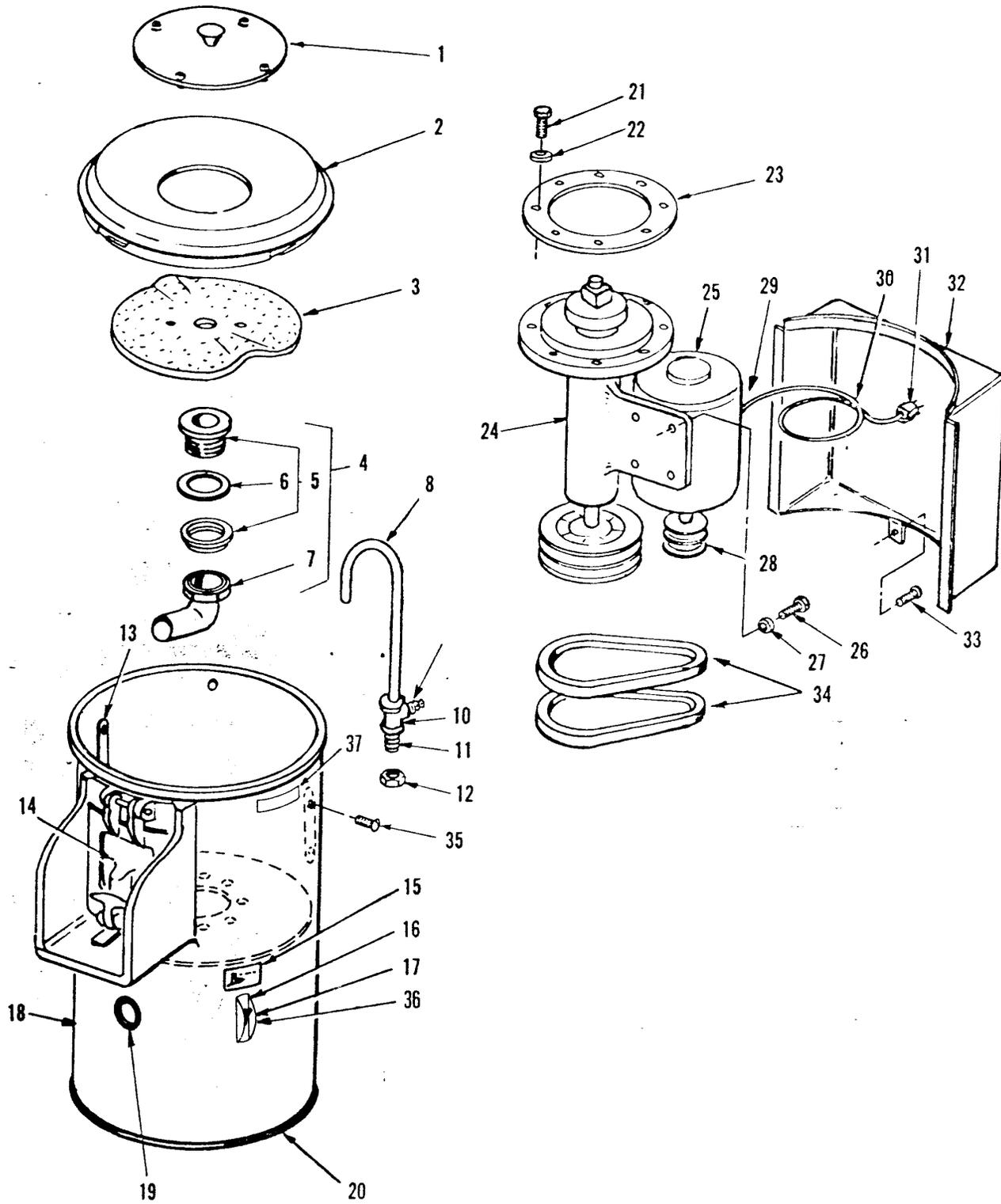


Figure 1 MODEL S-15 PEELER

MODEL S-15 PEELER

| Item No. | Part No. | Description | No. Req. |
|----------|----------|--|----------|
| 1 | P2-5100 | SPLASH COVER, Aluminum | 1 |
| 2 | P2-5163 | HOPPER, Plastic | 1 |
| 3 | P4-5270 | PEEL DISC | 1 |
| 4 | P2-5144 | DRAIN ASSEMBLY (Consists of items 5, 6 & 7) | 1 |
| 5 | P1-5291 | DRAIN CUP w/ Flanged Locknut | 1 |
| 6 | P1-5292 | GASKET | 1 |
| 7 | P1-5295 | WASTE TUBE w/ Locknut and Rubber Washer | 1 |
| 8 | P1-5066 | SPRAY PIPE | 1 |
| 9 | P1-17238 | NIPPLE, Dixon Style 3500 | 1 |
| 10 | P1-17236 | TEE, 114 x 1, 4 x 3/8" Female | 1 |
| 11 | P1-5210 | STUD, 1/2 x 3" | 1 |
| 12 | W0-14192 | LOCK NUT, 1/2-13 Hex Jam Nut Cadm. Plated. | 1 |
| 13 | P1-5272 | LOBE, Peeler | 2 |
| 14 | P4-5258 | DOOR ASSEMBLY (See Fig. 3 for Detail Parts) | 1 |
| 15 | P1-5052 | PLATE, Data | 1 |
| 16 | P1-5096 | PLATE, Switch Cover | 1 |
| 17 | M1-15260 | SWITCH, Toggle, 1 PH., Flush | 1 |
| 17 | P1-17203 | SWITCH, Toggle, 3 PH., Flush | 1 |
| 18 | P4-5212 | HOUSING, Upper w/ Chute Casting | 1 |
| 19 | P1-17246 | RUBBER GROMMET | 1 |
| 20 | P1-17247 | GASKET, Channel | 1 |
| 21 | W1-8148 | CAPSCREW, 3/8 x 3/4" lg.. S/S | 8 |
| 22 | W1-5567 | WASHER, Plain 3/8" Cad. Plt. | 8 |
| 23 | P2-5040 | GASKET | 1 |
| 24 | P4-5219 | BEARING COLUMN ASSY., Complete (See Fig. 4 for detail parts) | 1 |
| 25 | P1-5280 | MOTOR, 1/3 H.P., 1 PH, 115/230V | 1 |
| 25 | P1-5281 | MOTOR, 1/3 H.P., 3 PH, 220V | 1 |
| 26 | W1-7111 | CAPSCREW, 5/16 x 3/4" lg. Hex Hd. | 4 |
| 27 | P1-17235 | LOCKWASHER, 5/16" | 4 |
| 28 | P1-5111 | SHEAVE (2 Grooves) | 1 |
| 29 | M1-15388 | CONNECTOR, 3/8" - 90° (Not Illus.) | 1 |
| 30 | P1-17214 | CORD, No. 14 AWG, 3 Wire Cond., 1 PH. | 6 ft. |
| 30 | M1-15369 | CORD, No. 14 AWG, 4 Wire Cond., 3 PH. | 6 ft. |
| 31 | P1-17212 | PLUG, Use with 3 Wire Cord, 120V, 1 PH., 15 Amp. | 1 |
| 31A | N1-15374 | PLUG, Use with 3 Wire Cord, 250V, 1 PH., 15 Amp. | 1 |
| 31B | P0-17213 | PLUG, Use with 4 Wire Cord, 208.1/40V. 60C, 3 PH., 20 Amp. | 1 |
| 31C | P0-95603 | PLUG, Use with 4 Wire Cord, 430V, 60C, 3 PH., 20 Amp. | 1 |
| 32 | P4-5207 | HOUSING, Motor Cover | 1 |
| 33 | W1-5987 | SCREW, 10-24 x 1/2" Pan Hd. | 1 |
| 34 | P1-15211 | V-BELT, 31" lg. | 2 |
| 35 | W1-10307 | SCREW, 10/32 x 18" lg., Rd. Hd. Mach. | 4 |
| 36 | M1-95654 | SWITCH GUARD | 1 |
| 37 | P1-95647 | CAUTION LABEL | 1 |

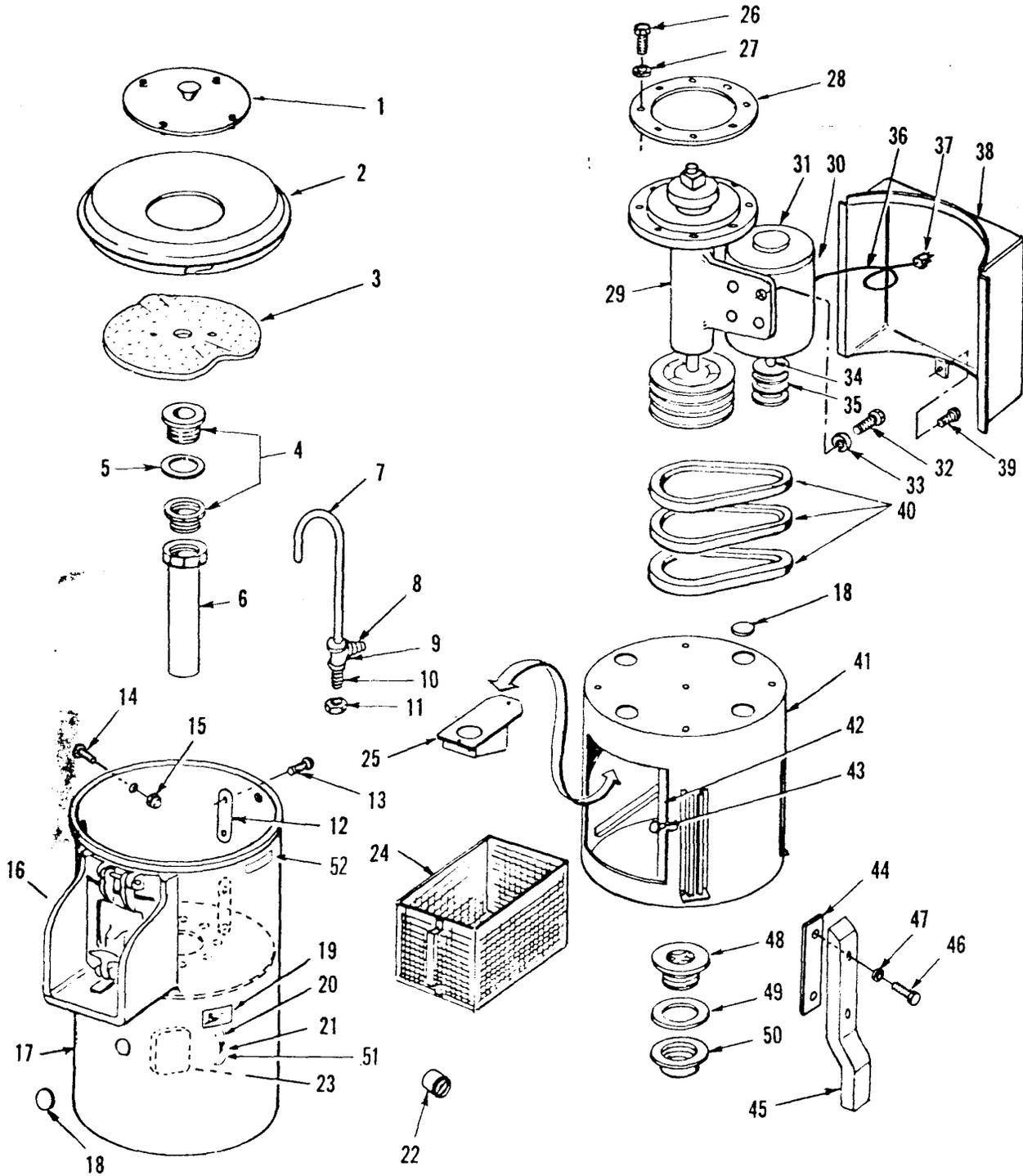


Figure 2 MODELS XC-15, XC-30 & XC-60 PEELERS

MODELS XC-15, XC-30 & XC-60 PEELERS

| Index No. | XC-15 | XC-30 | XC-60 | Description | Qty. |
|-----------|----------|----------|----------|---|------|
| 1 | P2-5100 | P2-5100 | P2-5100 | SPLASH COVER | 1 |
| 2 | P2-5163 | P2-5164 | P2-5164 | HOPPER, Plastic | 1 |
| 3 | P4-5270 | P4-5271A | P4-5109 | PEEL DISC | 1 |
| 4 | P1-5291 | P1-5291 | P1-5291 | DRAIN CUP, with flanged Locknut | 1 |
| 5 | P1-5292 | P1-5292 | P1-5292 | GASKET | 1 |
| 6 | P1-5293 | P1-5294 | P1-5294 | WASTE TUBE w/ Locknut and Rubber Washer | 1 |
| 7 | P1-5066 | P1-5066 | P1-5066 | SPRAY PIPE | 1 |
| 8 | P1-17238 | P1-17238 | P1-17238 | NIPPLE, Dixon Style 3500 | 1 |
| 9 | P1-17236 | P1-17236 | P1-17236 | TEE, 1/4 x 1/4 x 1/8" Female | 1 |
| 10 | P1-5210 | P1-5210 | P1-5210 | STUD, 1/2 x 3" | 1 |
| 11 | W0-14192 | W0-14192 | W0-14192 | LOCKNUT, 1/2-13 Hex Jam Nut Cadm. Plated | 1 |
| 12 | P1-5272 | P1-5272 | P1-5272 | LOBE, Peeler (XC-60 Qty. 3) | 2 |
| 13 | W1-10307 | W1-10307 | W1-10307 | SCREW, 10/32 x 3/8" lg. Rd. Hd.Mach. (XC-60 Qty-6) | 4 |
| 14 | - | W1-11545 | W1-11545 | SCREW, 10/24 x 1/4" lg. Rd. Hd. Mach. | 4 |
| 15 | - | P1-17252 | P1-17252 | NUT, 10/24 Cap | 4 |
| 16 | P4-5258 | P4-5025 | P4-5025 | CHUTE AND DOOR ASSEMBLY (See Fig. 3 for Detail Parts) | 1 |
| 17 | P4-5212 | P4-5231 | P4-5232 | HOUSING, Upper w/ Chute Casting | 1 |
| 18 | W1-7123 | W1-7123 | W1-7123 | PLUG, Button | 3 |
| 19 | P1-5052 | P1-5052 | P1-5052 | PLATE, Data | 1 |
| 20 | P1-5096 | P1-5096 | P1-5096 | PLATE, Switch Cover | 1 |
| 21 | M1-15260 | M1-15260 | M1-15260 | SWITCH, Toggle, 1 PH., Flush | 1 |
| 21 | P1-17203 | P1-17203 | P1-17203 | SWITCH, Toggle, 3 PH., Flush | 1 |
| 22 | P2-5108 | P2-5108 | P2-5108 | SWITCH, Timing, 1 PH. Only (Not Illust.) (Opt.) | 1 |
| 22A | - | P2-5315 | P2-5315 | STARTER, 220/440V, w/115V Circuit Control (Opt.) | 1 |
| 23 | P1-17250 | P1-17250 | P1-17250 | ELECTRICAL BOX w/Cover | 1 |
| 24 | P4-5203 | P4-5189 | P4-5189 | BASKET, Peel Trap | 1 |
| 25 | P3-5252 | P3-5252 | P2-5242 | DEFLECTOR, Drain | 1 |
| 26 | W1-8148 | W1-8148 | W1-8148 | CAPSCREW, 3/8 x 3/4" lg., S/S | 8 |
| 27 | W1-5567 | W1-5567 | W1-5567 | WASHER, Plain 3/8" Cad. Pit. | 8 |
| 28 | P2-5040 | P2-5040 | P2-5040 | GASKET | 1 |
| 29 | P4-5219 | P4-5220 | P4-5221 | BEARING COLUMN ASSY, Complete (See Fig. 4 for Detail Parts) | 1 |
| 30 | M1-15388 | M1-15388 | M1-15388 | CONNECTOR, 3;8" - 9° (Not Illust.) | 1 |
| 31 | P1-5280 | P1-5282 | P1-5284 | MOTOR, 1/3 HP (XC-15), 3/4 HP (XC-30), 1 HP (XC-60), 1 PH. | 1 |
| 31 | P1-5281 | P1-5283 | P1-5285 | MOTOR, 1/3 HP (XC-15), 3/4 HP (XC-30), 1 HP (XC-60), 3 PH. | 1 |
| 32 | W1-7111 | W1-7111 | W1-7111 | CAPSCREW, 5/16 x 3/4" lg. Hex Hd. | 4 |
| 33 | P1-17235 | P1-17235 | P1-17235 | LOCKWASHER, 5/16" | 4 |

MODELS XC-15, XC-30 & XC-60 PEELERS - Continued

| Index No. | XC-15 | XC-30 | XC-60 | Description | Qty. |
|-----------|----------|----------|----------|--|-------|
| 34 | - | P1-5155 | P1-5155 | KEY, 3/16" sq. x 2" lg. | 1 |
| 35 | P1-5111 | P1-5007 | P1-5134 | SHEAVE | 1 |
| 35A | P1-95068 | P1-95067 | P1-95067 | SHEAVE for 50 Cycle Motors Only | 1 |
| 36 | P1-17214 | - | - | CORD, No. 14 AWG, 3 Wire Conduct, 1 PH (Opt.-XC-15 only) | 6 ft. |
| 36A | M1-15369 | - | - | CORD, No. 14 AWG, 4 Wire Conduct, 3 PH (Opt.-XC-15 only) | 6 ft. |
| 37 | P1-17212 | P1-17212 | P1-17212 | PLUG, Use with 3 Wire Cord, 120V, 1 PH, 15 Amp. | 1 |
| 37A | M1-15374 | M1-15374 | M1-15374 | PLUG, Use with 3 Wire Cord, 250V, 1 PH, 15 Amp | 1 |
| 37B | P0-17213 | P0-17213 | P0-17213 | PLUG, Use with 4 Wire Cord, 208/240V, 60C, 3 PH, 20 Amp | 1 |
| 37C | P0-95603 | P0-95603 | P0-95603 | PLUG, Use with 4 Wire Cord, 460/480V, 60C, 3 PH, 20 Amp | 1 |
| 38 | P4-5207 | P4-5196 | P4-5196 | HOUSING, Motor | 1 |
| 39 | W1-5987 | W1-5987 | W1-5987 | SCREW, 10-24 x 1/2" Pan Hd. | 1 |
| 40 | P1-15211 | P1-15211 | - | V-BELT, 31" lg. (XC-15 & XC-30) | 2 |
| 40 | - | - | W1-8888 | V-BELT, 32" lg. (XC-60) | 3 |
| 41 | P4-5205 | P4-5188 | P4-5188 | HOUSING, Lower Weldment | 1 |
| 42 | P2-17210 | P2-17210 | P2-17210 | SLIDING DOOR, S/S | 1 |
| 43 | P1-17228 | P1-17228 | P1-17228 | KNOB | 1 |
| 43A | P1-17244 | P1-17244 | P1-17244 | #8 LOCKWASHER for Door Knob | 1 |
| 43B | W1-7476 | W1-7476 | W1-7476 | SCREW for Door Knob | 1 |
| 44 | P1-5199 | P1-5199 | P1-5199 | CLAMP BAR | 4 |
| 45 | P4-5195 | P4-5195 | P4-5195 | LEG, Cast Aluminum | 4 |
| 46 | P1-17230 | P1-17230 | P1-17230 | CAPSCREW, 3/8 x 1" lg. Hex Hd. | 8 |
| 47 | W1-7524 | W1-7524 | W1-7524 | LOCKWASHER, 3/8" Split | 8 |
| 48 | P1-17248 | P1-17248 | P1-17248 | WASTE DRAIN. 2" Brass | 1 |
| 49 | P1-5236 | P1-5236 | P1-5236 | GASKET | 1 |
| 50 | P1-17249 | P1-17249 | P1-17249 | LOCK-NUT, Pipe 2" | 1 |
| 51 | M1-95654 | M1-95654 | M1-95654 | SWITCH GUARD | 1 |
| 52 | P1-95647 | P1-95647 | P1-95647 | CAUTION LABEL | 1 |

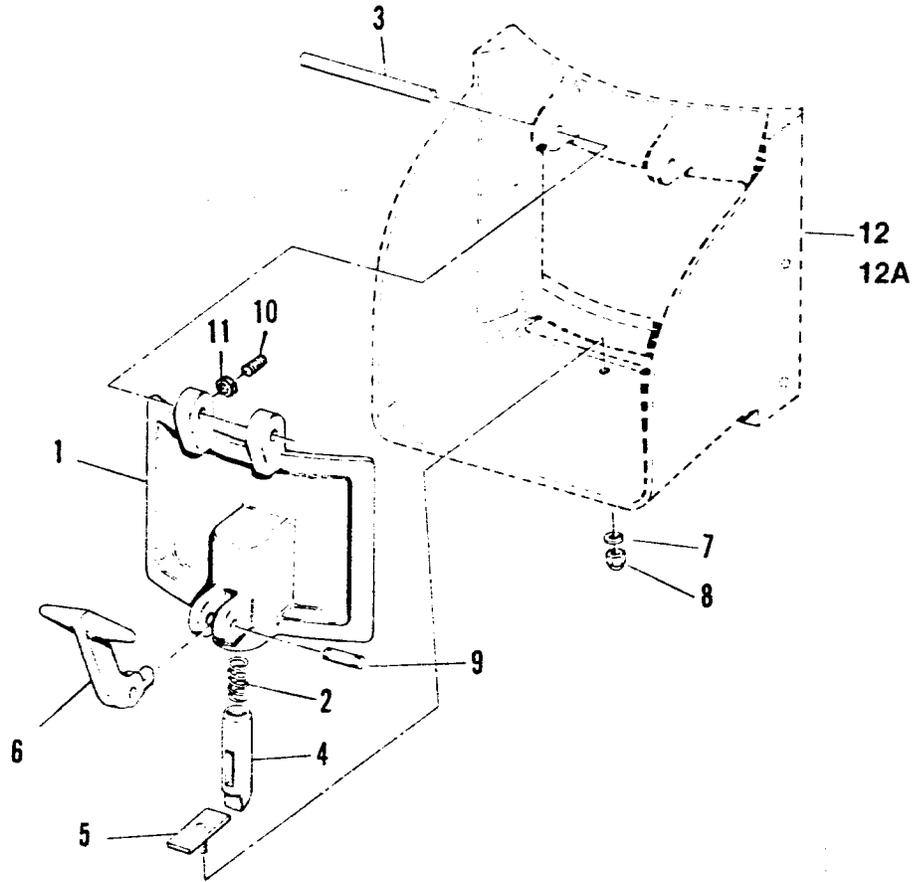


Figure 3 DOOR ASSEMBLY (Not Available As Assembly)

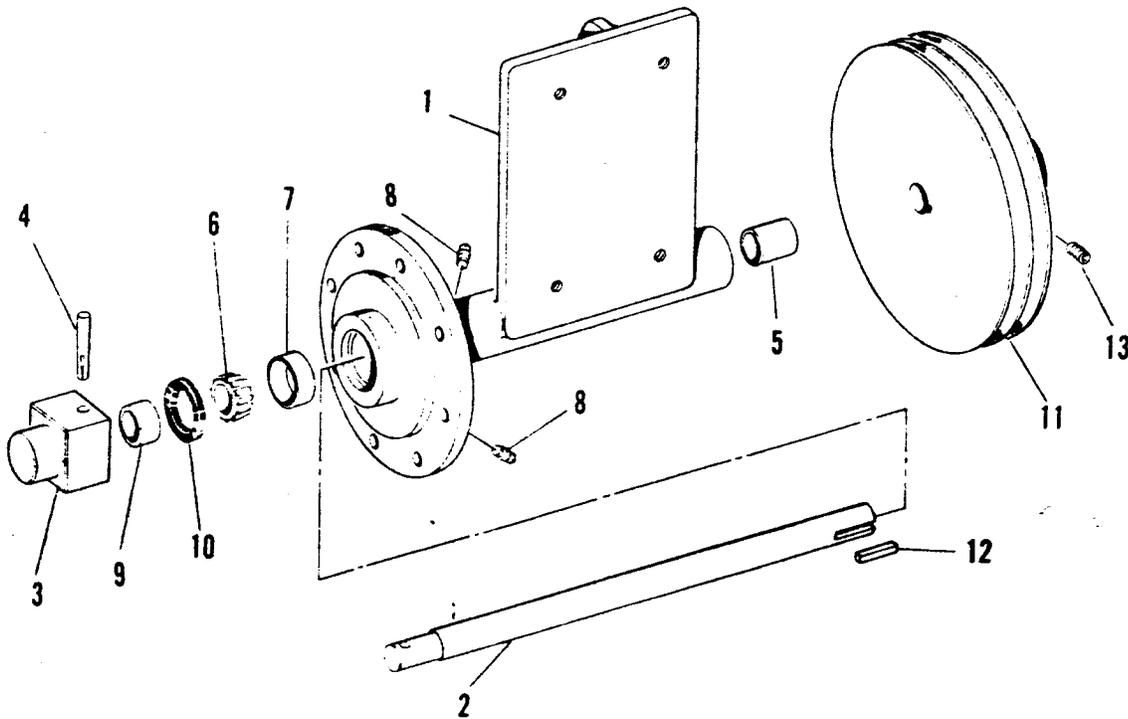


Figure 4 COMPLETE BEARING COLUMN (Available As Assembly) S-15 & XC-15) - P4-5219 XC-30 - P4-5220 XC-60 - P4-5221

S-15 & XC-15 XC-30 XC-60

| Item No. | Part No. | Description | No. Reqd. |
|----------|-----------|---|-----------|
| 1 | P4-5014 | DOOR, Peeler | 1 |
| 2 | P1-5036 | SPRING | 1 |
| 3 | P1-5254 | PIN, Hinge | 1 |
| 4 | P1-5035 | PLUNGER | 1 |
| 5 | P1-5030 | LATCH JAM | 1 |
| 6 | P1-5037 | HANDLE, Latch | 1 |
| 7 | W-1-7598 | LOCKWASHER, 5/16, S/S | 1 |
| 8 | W-1-8138 | CAP NUT, Brass, 5/16 - 18 S/S | 1 |
| 9 | P1-17231 | DRIV-LOK PIN, S/S | 1 |
| 10 | P1-5269 | BALL PLUNGER | 1 |
| 11 | W1-8132 | JAM NUT, 10/32 | 1 |
| 12 | P-4-5024 | CHUTE CASTING S-15, XC-15 | 1 |
| 12A | P-4-55051 | CHUTE CASTING XC-30, XC-60 | 1 |
| Item No. | Part No. | Description | No. Reqd. |
| 1 | P4-D222 | BEARING COLUMN (S-15, XC-15 & XC-30) Select One | 1 |
| 1 | P4-5224 | BEARING COLUMN (XC-60) | 1 |
| 2 | P2-5225 | DRIVE SHAFT, Peel Disc (S-15, XC-15 & XC-30) | 1 |
| 2 | P2-5227 | DRIVE SHAFT, Peel Disc (XC-60) | 1 |
| 3 | P1-5177 | DRIVING BLOCK, Peel Disc | 1 |

| Item No. | Part No. | Description | No. Reqd. |
|----------|----------|--|-----------|
| 4 | P1-17232 | DRIV-LOK PIN, 1/4 x 2" | 1 |
| 5 | P1-17222 | BUSHING, Plain | 1 |
| 6 | P1-17225 | BEARING, Roller Cone | 1 |
| 7 | P1-17224 | BEARING, Cup | 1 |
| 8 | P1-17233 | PIPE PLUG, 1/8-27 N.P.T. | 9 |
| 9 | P1-5253 | SPACER | 1 |
| 10 | P1-5274 | OIL SEAL | 1 |
| 11 | P1-17229 | PULLEY, 2 Groove (S-15, XC-15 & XC-30) | 1 |
| 11 | P3-5135 | PULLEY, 3 Groove (XC-60) | 1 |
| 12 | P1-17242 | KEY, 1/4" sq. x 1-1/2" lg. | 1 |
| 13 | W1-7171 | SETSCREW, 5/16 x 3/8" lg. Cup Pt. | 1 |

PEELER TROUBLE SHOOTING CHART

| TYPE OF TROUBLE | REASON | CORRECTIVE MEASURE |
|--|--|---|
| Peeler will not start | Main Fuse or Circuit Breaker | Change fuses or reset circuit breaker |
| Wire loose or broken | Overload switch tripped | Push reset button Visually check all connections, controls & motor Check switch |
| Motor runs but peeler disc does not run | Belt broken or slipping | Adjust belt tension or replace broken belts |
| Peeler runs hot or smokes | Improper voltage on motor or motor defective Motor overloaded thus overheating | Check incoming voltage and motor Check amperage draw |
| | Bearing column tight not free running | Grease by removing plug at center bearing and grease with an Elimate grease gun Use SHELL DARINA 2 grease or equivalent |
| Peeler makes noise when running | Worn out bearings | Replace bearings P1-17225 Timken Cone |
| | | P1-17224 Timken Cup |
| | | P1-17222 Bushing and oil seat P1-5274 |
| Peeler leaks water at the center bearing | Defective seal | Replace seal P1-5274 Also check the bearing |
| Peeler won't peel potatoes | Worn peeler abrasive disc | Replace abrasive disc |
| | | P4-5270 XC15 |
| | | P4-5271 XC30 |
| | | P4-5109 XC60 |
| | Peeler liner worn smooth On models made prior to 1-1-68 | Replace liner with P1-5272 peeler lobes |
| | Peeler overloaded | Use proper amount of potatoes for our type of peeler (See Owners Manual) |
| Flat spots on Idaho potatoes | Potatoes are too long | Cut Idaho potatoes in half before inserting in machine |
| Water splashes out when peeling potatoes | Too much water pressure or Splash cover missing | Turn water valve down to regulate Replace splash cover p/n P2-5100 |
| Water leaking on floor | Peel trap basket full of peelings | Empty peel trap basket |
| | Lower drain plugged up | Clean or rod out drain |

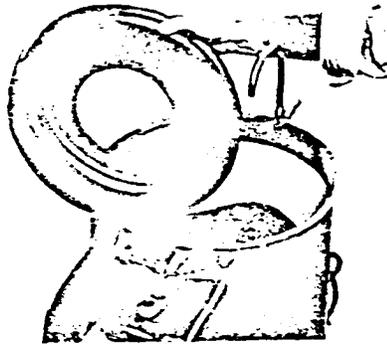
SECTION

INSTRUCTIONS FOR INSTALLATION, OPERATION AND MAINTENANCE OF BLAKESLEE POTATO AND VEGETABLE PEELERS

INSTALLATION

Place your Blakeslee Peeler where the most efficient operation is assured. The Peeler should be placed so that the peeled potatoes can be discharged into a sink. If your Peeler was supplied in the bench model, then the Peeler should be installed with room for the potatoes to discharge into a metal container so that the peeled potatoes can be submerged in water, as peeled potatoes must be kept under water to prevent their turning black. The Potato Peeler is equipped with a removable strainer basket that catches the peelings. This strainer basket is removed through the access door in the base of the Peeler, so when installing your Peeler, be sure there is ample room to permit easy removal of the strainer basket. NOTE: XC (floor) model peelers are shipped with the unload door and strainer directly over one another. It is possible to have the strainer basket in a different position. Simply remove the attaching bolts, move the bottom cylinder in increments of 90° until you obtain the desired position and reinstall attaching bolts.

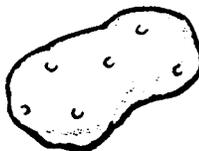
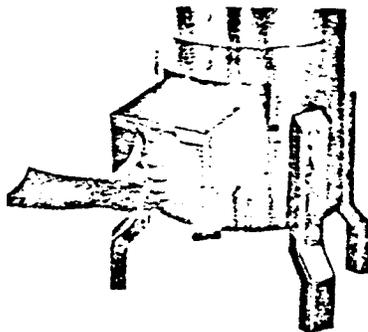
When you have selected the proper location for the Peeler, it is then necessary to connect the motor, the drain, and make a cold water connection to the spray inlet on the top of the Peeler. Before making the electrical connection, be sure that the electrical specifications on the tag attached to the motor correspond to the available electrical current. The drain pipe should be 2" or larger all the way with as much downward pitch as possible and without any sharp bends for good drainage. A 3/8" cold water supply line should be connected to the back of the machine. A hose bibb, to which a hose may be attached, is recommended for cleaning the Peeler after it has been used.



OPERATION

Before operating the Peeler, be sure that the peeling disc and cover and the peel trap strainer basket are all in place, then adjust the cock or valve for the correct flow of water into the peeling chamber. Next turn on the motor and then put in the potatoes. Be careful not to overload the machine as when the peeling chamber is overloaded, the potatoes will not tumble and roll properly and there will be more waste than is necessary. Overloading the peeling chamber can also cause uneven peeling, or what is commonly called "flats". When peeling long Idaho potatoes, it is often advisable to cut them in half for efficient peeling. Always be sure to turn on the motor so the peeling disc is in motion before the potatoes are dumped into the peeling chamber, as filling the peeling chamber first and then starting the motor tends to overload the motor and the Potatoes do not tumble and roll for even peeling. It is very desirable to have a container as a measure that will hold just the right quantity of potatoes, 15, 20 or 60 lbs., as the model, indicates, as such a measure is insurance against overloading.

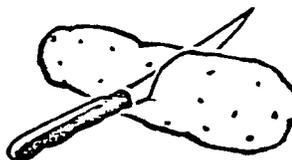
The time required for peeling a charge of potatoes depends greatly on the condition and age of the potatoes. New potatoes are peeled very quickly, whereas old potatoes require a longer time for peeling. Potatoes that are being peeled for potato chips are generally peeled very lightly. Potatoes that are going to be mashed should be peeled more thoroughly. The progress of the peeling can be watched and sometimes it is advisable to lift out a few potatoes to examine the extent of the peeling that has been accomplished.



For best peeling results, do not overload peeler. Overloading prevents proper tumbling of potatoes causing uneven peeling



Cut long Idahos in half for more efficient peeling.



To discharge the peeled potatoes, merely open the door of the peeling chamber and the peeled potatoes will automatically throw out. After the peeled potatoes have been discharged, turn off the water and the motor. Do not peel the eyes out of the potatoes as it is much more economical to trim out the eyes by hand after peeling. When peeling large quantities of potatoes, empty the peel trap strainer basket frequently.



CLEANING

When all of the Potatoes and vegetables have been peeled, and before the inside of the peeler has had time to dry, remove the cover and the peeling disc and hose out the inside of the peeler. Always remember to empty and clean the peel trap strainer basket.

CAUTION

**Be sure motor is connected so peeling disc operates in clockwise direction.
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