



MODEL  
3334FH & 3334-4003FH  
FIXED HEAD POWER MEAT SAW  
OPERATING AND SERVICE MANUAL



☆ **IMPORTANT NOTICE** ☆

This Manual contains important safety instructions which must be strictly followed when using this equipment.

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## NOTICE TO OWNERS AND OPERATORS

BIRO's products are designed to process food products safely and efficiently. Unless the operator is properly trained and supervised, however, there is the possibility of a serious injury. It is the responsibility of the owner to assure that this machine is used properly and safely, strictly following the instructions contained in this Manual and any requirements of local law.

No one should use or service this machine without proper training and supervision. All operators should be thoroughly familiar with the procedures contained in this Manual. Even so BIRO cannot anticipate every circumstance or environment in which its products will be used. You, the owner and operator, must remain alert to the hazards posed by the function of this equipment - particularly the SHARP MOVING BAND TYPE SAW BLADE. No one under eighteen (18) years of age should operate this equipment. If you are uncertain about a particular task, ask your supervisor.

This Manual contains a number of safe practices in the SAFETY TIP section. Additional warnings are placed throughout the Manual. Warnings related to your personal safety are indicated by:



OR



Warnings related to possible damage are indicated by:



BIRO also has provided a wall chart to be posted near the equipment. If any warning label, wall chart, or Manual becomes misplaced, damaged, or illegible, please contact your nearest Distributor or BIRO directly for a replacement.

Remember, however, this Manual or the warning labels do not replace the need to be alert and to use common sense when using this equipment.

This Manual applies to 3334FH & 3334-4003FH Power Meat Saws with Fixed Heads.

**- NOTE -**

**A copy of this manual is included with each MODEL 3334FH &  
3334-4003FH FIXED HEAD POWER MEAT SAW.**

**The descriptions and illustrations contained in this manual are not binding.  
The manufacturer reserves the right to introduce any modification without  
updating the manual.**

## SAFETY TIPS



### SHARP MOVING BAND TYPE SAW BLADE TO AVOID SERIOUS PERSONAL INJURY

***NEVER** Touch This Machine Without Training and Authorization By Your Supervisor.*

***ALWAYS** Read Operation and Parts Manual **BEFORE** Operating, Cleaning or Servicing.*

***ALWAYS** Keep Hands Clear of Sharp Band Type Saw Blade and Other Moving Parts.*

***ONLY** Use a Qualified Electrician to Install According to Local Building Codes: Machines **MUST** Be Properly Grounded.*

***ONLY** Install on Level, Non-Skid Surface in a Clean, Well-Lighted Area Away From Children and Visitors.*

***DO NOT** Attempt to Operate This Machine Until it has Been Inspected and Demonstrated by the Seller - Recognized **BIRO** Representative.*

***DO NOT** Alter or Modify This Machine in any Way From its Original Form. This Machine in its Original Form Meets the Intent of O.S.H.A. Applicable Standards.*

***NEVER** Operate with Saw Guard on Saw Guide Bar in the Raised Position or the Saw Guard Removed from the Saw Guide Bar.*

***ALWAYS** Adjust the Saw Guide Bar with Saw Guard to Within ½” of Product to be Cut.*

***ALWAYS** Use Supplied Safety End Cut Pusher Plate for Smaller Products or The Last Cuts of Products.*

***DO NOT** Use This Machine for Non-Food Products.*

***DO NOT** Use This Machine to Cut Pigs Feet.*

***DO NOT** Wear Gloves While Operating.*

***ALWAYS** Turn Off, Unplug From Power Source and Perform Lockout/Tagout Procedure to This Machine **BEFORE** Removing Shrouds, Removable Guards, Covers, Doors, Fences or Panels for Cleaning, Servicing or Any Other Reason.*

***NEVER** Leave Machine Unattended While the Saw is Running.*

***PROMPTLY REPLACE** Any Worn or Illegible Warning Labels.*

***USE ONLY BIRO** Parts and Accessories Properly Installed.*

## INSTALLATION



### TO AVOID SERIOUS PERSONAL INJURY PROPERLY INSTALL EQUIPMENT IN ADEQUATE WORK AREA

*ALWAYS* Read Operating and Parts Manual **BEFORE** Installation.

*ALWAYS* Use Qualified Technician and Electrician for Installation.

*ALWAYS* Install Equipment in Work Area with Adequate Light and Space.

*ONLY* Operate on a Solid, Level, Non-Skid Surface.

**DO NOT** Attempt to Operate This Machine Until it has Been Inspected and Demonstrated by the Seller - Recognized **BIRO** Representative.

**DO NOT** Alter or Modify This Machine in Any Way from its Original Form. This Machine in its Original Form Meets the Intent of O.S.H.A Applicable Standards.

**NEVER** Operate with Saw Guard on Saw Guide Bar in the Raised Position or the Saw Guard Removed from the Saw Guide Bar.

*ALWAYS* Adjust Saw Guide Bar with Saw Guard to Within 1/2" of Product to be Cut.

**NEVER** Operate Without all Warning Labels Attached and Wall Chart Posted.

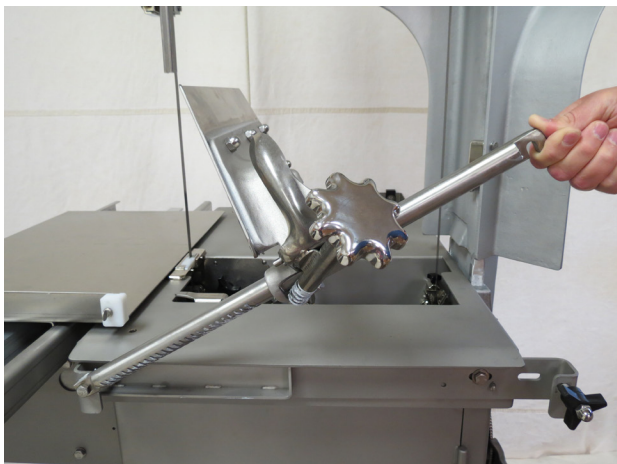
**USE ONLY BIRO** Parts and Accessories Properly Installed.

1. Read this Manual thoroughly before installation and operation. **Do not** proceed with installation and operation if you have any questions or do not understand anything in this Manual. Contact your local Distributor, or BIRO first.
2. Install machine on a level, solid, non-skid surface in a well-lighted work area away from children and visitors.



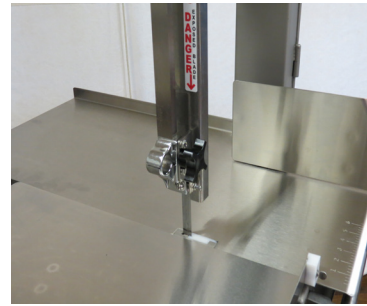
### ALWAYS LEVEL MACHINE BEFORE USING

3. After installing machine in operational area, it is imperative that the four adjusting leg hex bolts be adjusted to level the machine.
4. To install the meat gauge plate assembly to the machine. Loosen the lock knob. Raise the gear rack. Slide the meat gauge arm over the gear rack. Be sure to hold meat gauge arm so that the release handle is depressed. Lower the gear rack to original position. Tighten knob. Keep gear rack well oiled with a food grade oil to ensure free movement.





5. Place removable finger lift with saw guard assembly on the saw guide bar and fasten in place with four point finger lift fastener knob.
6. The side platter bracket is packed loose in the machine and must be installed on the left side of the base structure with the supplied hardware and checked for proper adjustment.
7. Machine **MUST** be properly grounded. Use qualified electrician to install according to building codes.



**FINGERLIFT  
ASSEMBLY**

## **WIRING MOTOR**

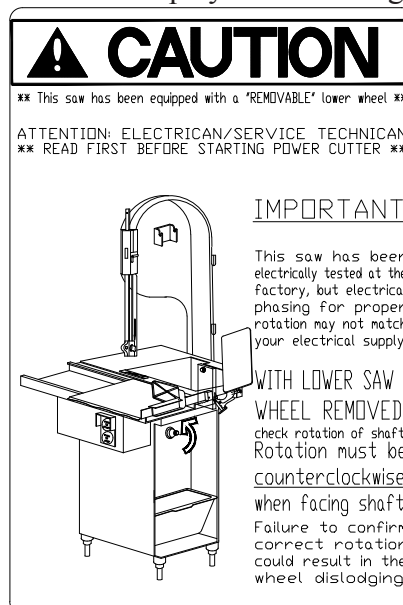
1. Interchange of motor current is made in motor outlet box. Leads are properly marked. Changing instructions are on motor plate or inside junction box cover.
2. All saws are wired 220 volts unless otherwise specified. Be sure motor specifications (voltage, cycle, phase) match power supply line. Be sure line voltage is up to specification.
3. Connect leads to machine in a manner that will be approved by local electrical inspectors.
4. We recommend no less that No. 12 wire. If the leads are too light, machine may not have sufficient cutting power and/or speed.
5. The drive belt is packed loose in machine to prevent deformation, and must be installed on pulleys at time of wiring motor.
6. The BIRO Manufacturing Company is not responsible for permanent wiring, connection or installations.



**NOTE TO OWNER AND ELECTRICIAN: IF THIS MACHINE IS NOT CORD AND PLUG CONNECTED TO THE ELECTRICAL SUPPLY SOURCE, THEN IT SHOULD BE EQUIPPED WITH, OR CONNECTED TO, A LOCKABLE, MANUALLY OPERATED DISCONNECT SWITCH (1010.147 OSHA).**

8. All machines are tested at the factory, but electrical phasing for proper rotation may not match your electrical supply. Some Model 3334's have removable lower wheel when the option is ordered from the factory. All machines with removable lower wheel must be first test run for proper phasing with the lower wheel removed. Failure to remove the lower wheel could cause the wheel to become dislodged during testing.

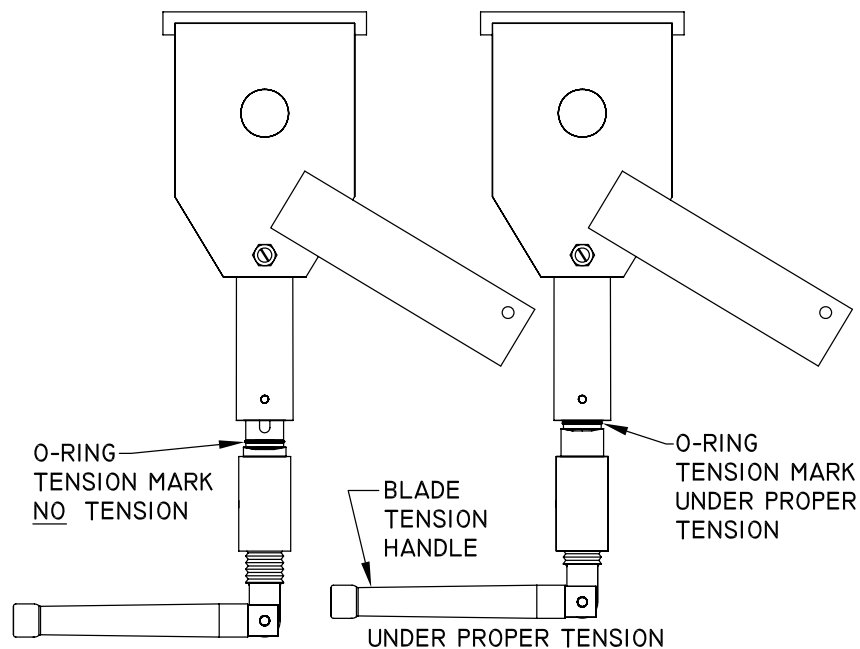
All machines with removable lower wheel will display the following decal on the right hinged base door.





## SHARP SAW BLADE. HANDLE WITH EXTREME CAUTION.

9. Placing blade on cutter: Unpack upper wheel assembly and hang on the hinged bracket in the head structure. Lift the nylon filler in the stationary bar. Hang the blade on the upper wheel and hold with right hand. With the left hand force the back of the blade between the front blade scrapers, located below the stationary bar. Lower the nylon filler. Be sure the blade is in the upper saw guide. The blade has dropped over the lower wheel. Switch hands holding the blade on the upper wheel. With the right hand, force the blade between the rear blade scrapers. The blade is now ready to be tightened.
10. Turn the blade tensioning handle clockwise until the tension mark is even with the bottom of the upper wheel hinge plate as shown. Carefully turn saw wheels by hand and watch for proper tracking of blade on the wheels.



11. The stationary platter is placed on top of the base structure and held in place by two platter hold down catches located in the base structure.
12. The sliding meat carriage assembly is installed on the channel. Start by turning the movable stop assembly clockwise. After the carriage assembly has been installed on the channel for operation, turn the movable stop assembly counterclockwise to lock.
13. Make sure saw guide bar with saw guard is in its lowest position. Close head and base doors.



## KEEP HANDS CLEAR OF SHARP MOVING BAND TYPE SAW BLADE

14. Push the start button. Check for proper phasing of the motor and proper tracking of the saw blade in the saw guides. Back of the blade should be centered in the lower saw guide in the stationary bar. Blade should be moving down through the guide. Push the stop button to stop machine.
15. Check placement of all warning labels, wall chart and Manual. Machine is ready for trained operators to process product.
16. Contact your local Distributor or BIRO directly if you have any questions or problems with the installation or operation of this machine.

## WARNING LABELS FOR BIRO POWER MEAT SAWS

### WARNING




DO NOT Use Unless Trained and Authorized By Supervisor And Over 18 Years Old.  
 READ Operation Manual Thoroughly Before Operating.  
 ALWAYS Keep Hands Clear of Saw Blade and other Moving Parts. Turn Off Saw when Finished Cutting.  
 ALWAYS Keep Blade Guard Adjusted to 1/2" Above the Product being Cut.  
 ALWAYS Use End Cut Pusher Plate When Cutting Smaller Piece of Product.  
 DO NOT Use Saw if it is Altered, Damaged, Improperly Maintained, or If Warnings Are Illegible or Missing.  
 ALWAYS Disconnect and Unplug from Main Power Source and Perform LOCKOUT/TAGOUT Before Cleaning or Servicing.  
 Failure to comply with warning could result in serious bodily injury.

#653PC-E

ITEM No. 653PC-E: ALL SAWS  
 1 ea. Attached to Head Below S/N Plate  
 1 ea. Attached to Channel Bracket

### MUCHO CUIDADO



NO Opere Esta Sierra Sin Haber Sido Entrenado Para Ello Ni Tampoco Sin Autorizacion de un Supervisor. Uno Tiene que Haber Cumplido 18 Años Para Operarla.  
 LEA Cuidadosamente el Manual de Operacion Antes de Usar Este Equipo.  
 SIEMPRE Guarde las Manos a Salvo de la Hoja de Serrar y de Otras Partes Moviles. Cierre el Interruptor Despues de Terminar de Cortar.  
 SIEMPRE Tenga Ajustado el Guardasierra Para que Quede a 1/2" Por Encima del Producto que se Corta.  
 SIEMPRE Haga Uso de la Placa de Empuje Para Cortes de Extremos al Cortar Trocitos Pequenos.  
 NO Utilice la Sierra si se Halla Alterada, Danada o si No ha Sido Debidamente Mantenida o si la Advertencia es Illegible o si Falta Esta.  
 SIEMPRE Desconecte el Equipo Decenchufandolo de la Fuente de Fuerza. Dejelo Bajo Llave o con Etiqueta que Prohiba su Uso Antes de Limpiarlo o Hacer Trabajos de Mantenimiento.

#653PC-SP

ITEM No. 653PC-SP: ALL SAWS  
 1 ea. Attached to Channel Bracket



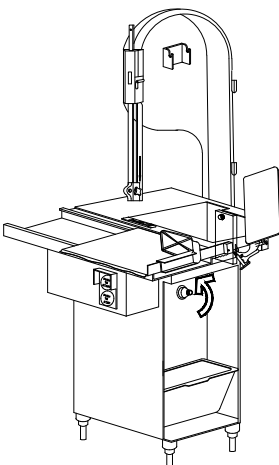
NOT TO SCALE



### CAUTION

\*\* This saw has been equipped with a "REMOVABLE" lower wheel \*\*

ATTENTION: ELECTRICIAN/SERVICE TECHNICIAN  
 \*\* READ FIRST BEFORE STARTING POWER CUTTER \*\*



**IMPORTANT**

This saw has been electrically tested at the factory, but electrical phasing for proper rotation may not match your electrical supply.

**WITH LOWER SAW WHEEL REMOVED,** check rotation of shaft. Rotation must be counterclockwise when facing shaft. Failure to confirm correct rotation could result in the wheel dislodging.

ITEM No. 708: ALL SAWS  
 Attached to saw Guard  
 on Saw Guide Bar

ITEM No. 16716  
 Applied to Right Hinged Base Door  
 on all Model 1433 and Model 3334  
 with Lower Removable Wheel

ALWAYS LOWER GUARD TO HEIGHT OF PRODUCT



D  
A  
N  
G  
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R

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X  
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S  
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ITEM No. 708



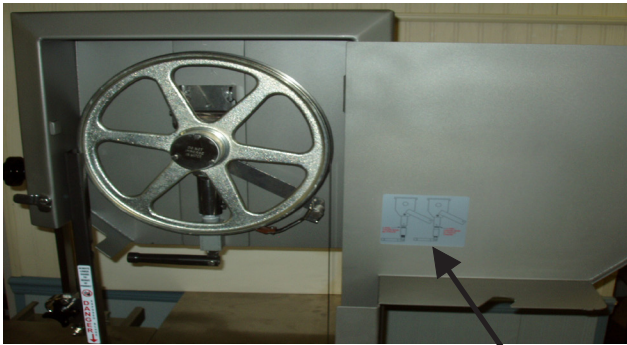
# WARNING LABEL LOCATIONS ON MACHINE



ATTACH TO CHANNEL BRACKET NEXT TO SWITCH BUTTONS

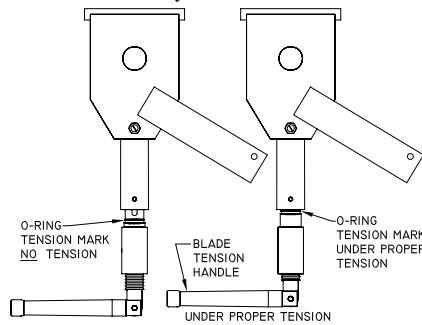


ATTACH ON HEAD STRUCTURE BELOW MODEL/SERIAL NUMBER TAG



P/N 720  
BLADE TENSION  
ADJUSTMENT DECAL

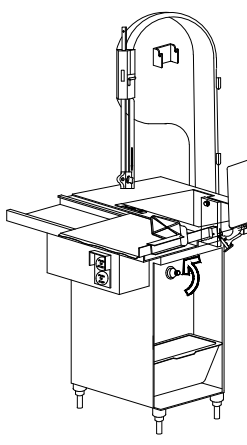
LOCATED INSIDE  
HEADDOOR



**CAUTION**

\*\* This saw has been equipped with a "REMOVABLE" lower wheel \*\*

ATTENTION: ELECTRICIAN/SERVICE TECHNICIAN  
\*\* READ FIRST BEFORE STARTING POWER CUTTER \*\*



IMPORTANT

This saw has been electrically tested at the factory, but electrical phasing for proper rotation may not match your electrical supply.

WITH LOWER SAW WHEEL REMOVED, check rotation of shaft. Rotation must be counterclockwise when facing shaft. Failure to confirm correct rotation could result in the wheel dislodging.

P/N 16716  
"CAUTION" LABEL  
USE ON MACHINES  
WITH REMOVABLE  
LOWER WHEEL

ATTACH TO HINGED  
RIGHT BASE DOOR

ALWAYS LOWER GUARD TO HEIGHT OF PRODUCT



DANGER

EXPOSED BLADE



WARNING



DO NOT Use Unless Trained and Authorized by Supervisor And Over 18 Years Old.  
READ Operation Manual Thoroughly Before Operating.  
ALWAYS Keep Hands Clear of Saw Blade and other Moving Parts. Turn Off Saw when Finished Cutting.  
ALWAYS Keep Blade Guard Adjusted to 1/2" Above the Product being Cut.  
ALWAYS Use End Cut Pusher Plate When Cutting Smaller Piece of Product.  
DO NOT Use Saw if it is Altered, Damaged, Improperly Maintained, or If Warnings Are Illegible or Missing.  
ALWAYS Disconnect and Unplug from Main Power Source and Perform LOCKOUT/TAGOUT Before Cleaning or Servicing.  
Failure to comply with warning could result in serious bodily injury.

#653PC-E

P/N 708 "DANGER EXPOSED BLADE" DECAL

ATTACHED TO SAW GUARD ON  
SAW GUIDE BAR



ITEM NUMBER 671

WALL CHART “BAND SAW SAFETY GUIDELINES”

ATTACH TO WALL IN VICINITY OF MACHINE IN EASY VIEW OF OPERATOR.



# WARNING

## ONLY TRAINED OPERATORS SHOULD USE THIS EQUIPMENT

This Saw Contains A Sharp Blade.  
To Avoid Serious Injury:

1. Inspect Before Operating:

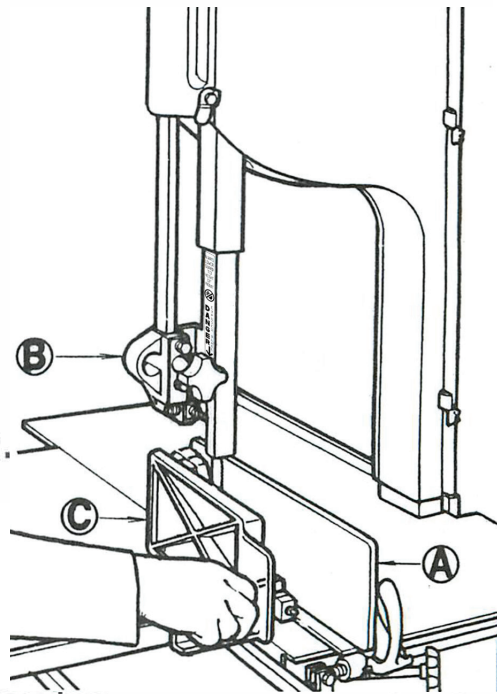
- Gauge Plate (A) and Blade Guard Are Secure.
- All Warning Labels And Guards Are In Place.
- The Guide Bar (B) Is Adjusted to 1/2 Inch Above The Product To Be Cut

2. While Cutting:

- Keep Hands And Fingers Away From Blade.
- Keep Product Securely Against Gauge Plate (A).
- Use End Cut Pusher Plate (C) When Making Final Cuts. Item No. 256P.

3. Before Cleaning:

- Turn Off Power And Follow Lockout / Tagout Procedure.
- Remove Saw Blade.
- Use Extra Care When Handling The Saw Blade.

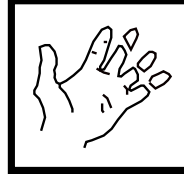


# USE YOUR MEAT SAW SAFELY!

SEE PARTS AND SERVICE MANUAL SUPPLIED WITH MACHINE FOR ADDITIONAL SAFETY INFORMATION.

#671

## OPERATION



### SHARP MOVING BAND TYPE SAW BLADE

TO AVOID SERIOUS PERSONAL INJURY

**ONLY** Properly Trained Personnel Should Use This Equipment.

**ALWAYS** Read Operating and Parts Manual **BEFORE** Operating.

**ALWAYS** Keep Hands Clear of Band Type Saw Blade and Other Moving Parts.

**DO NOT** Tamper With, Bypass, Alter, or Modify this Equipment in Any Way or Form.

**DO NOT** Alter or Modify This Machine in any Way From its Original Form. This Machine in its Original Form Meets the Intent of O.S.H.A. Applicable Standards.

**NEVER** Operate with Saw Guard on Saw Guide Bar in the Raised Position or the Saw Guard Removed from the Saw Guide Bar.

**ALWAYS** Adjust the Saw Guide Bar with Saw Guard to Within 1/2" of Product to be Cut.

**ALWAYS** Use Safety End Cut Pusher Plate for Smaller Products or The Last Cuts of Product.

**DO NOT** Use This Machine for Non-Food Products.

**DO NOT** Use This Machine to Cut Pigs Feet.

**DO NOT** Wear Gloves While Operating.

**ALWAYS** Turn Off, Unplug from Power Source and Perform Lockout/Tag Out Procedures Before Cleaning, Servicing or When Not in Use.

**NEVER** Leave Machine Unattended While the Saw is Running.

**NEVER** Operate Without All Warning Labels Properly Affixed to Machine.

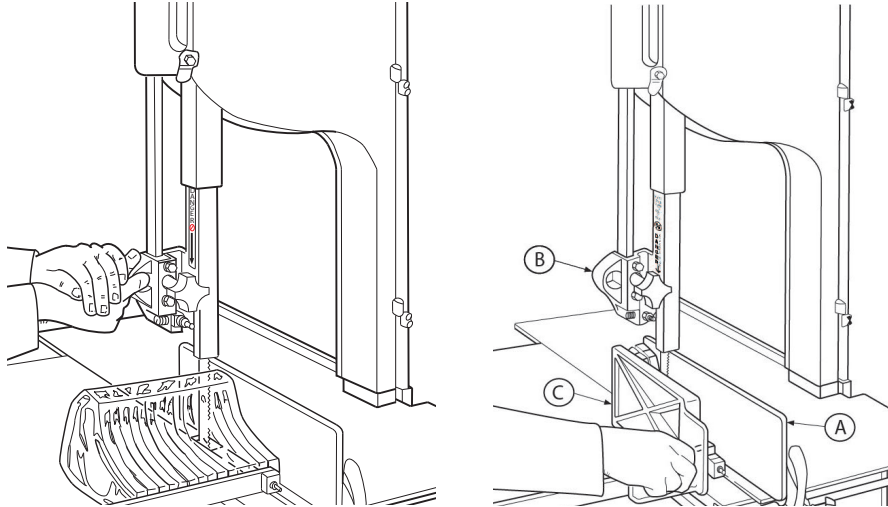
#### A. FOOD HANDLING TO PREVENT CONTAMINATION

1. **ALWAYS** wash hands thoroughly with warm soap and water before and after handling raw fish, poultry or meats.
2. **ALWAYS** clean and sanitize all utensils and surfaces that have been in contact with raw products.
3. **ALWAYS** store cold foods at or below 45 degrees F (7.2 degrees C).



## B. TO PROCESS PRODUCT

1. Before starting power saw, adjust saw guide bar with saw guard to within ½” of product to be cut. “B”



**DO NOT WEAR GLOVES WHILE OPERATING**

2. Make sure all doors are closed and locked.
3. Adjust meat gauge plate forward to desired thickness of cut. “A”
4. Push start button and watch blade for proper tracking.
5. Standing in front of the power saw, place product on the meat carriage. Pay attention to position of your hands. Keep hands clear of moving band type saw blade. Leaning lightly against the scalloped front edge of meat carriage, hold the product firmly in right hand with product face flush against the meat gauge plate. Move the meat carriage from right to left at a steady rate until fully past the saw blade. Use left hand to remove and stack cut product, **NEVER REACH IN FRONT OF BAND TYPE SAW BLADE.** On the return stroke, pull the product slightly toward you to clear the blade.



**NEVER REACH OR GRAB FOR PRODUCT IN FRONT OF MOVING BAND TYPE SAW BLADE**

6. ALWAYS use the Safety End Cut Pusher Plate for smaller products or the last cuts of product. “C” The pusher plate is supplied as standard on all BIRO power saws.
7. When finished cutting, push stop button. Perform lockout/tag out procedure.

## MAINTENANCE



TO AVOID SERIOUS PERSONAL INJURY



**ALWAYS** Turn Off, Unplug From Power Source and Perform Lockout/Tag Out Procedure to This Machine **BEFORE** Cleaning or Servicing.

**NEVER** Touch This Machine Without Training and Authorization By Your Supervisor.

**ALWAYS** Keep Hands Clear of Band Type Saw Blade and Other Moving Parts.

**NEVER** Bypass, Alter, or Modify This Equipment in Any Way From It's Original Condition.

**PROMPTLY REPLACE** Any Worn or Illegible Warning Labels.

**USE ONLY GENUINE BIRO** Parts and Accessories Properly Installed.

## A. GENERAL

1. Machine should be generally inspected every time it is cleaned (at least daily) to ensure that it is in good condition and has not been damaged or tampered with.
  - a. **SAW WHEELS:** Clean outer diameter grooves daily. Check for cracks, gouges or wear on the flange and grooves.
  - b. **WHEEL CLEANER ASSEMBLIES:** Check condition of fiber cleaner, change every four (4) weeks.
  - c. **REMOVABLE FINGER LIFT ASSEMBLY:** Check condition of saw guard, make sure mounting bolts are tight and the “DANGER EXPOSED BLADE” decal is affixed and legible. Check condition of upper saw guide, replace every 6 months. Check adjustment of upper saw guide. Should be 1/32” between back of blade and saw guide carbide.
  - d. **SAW GUIDE BAR:** Check condition of bar for wear, replace if necessary.
  - e. **STATIONARY BAR ASSEMBLY:** Check condition of nylon filler, change every 4 weeks. Check condition of saw guide, check tracking of blade through guide, back of blade should be centered in hole, replace every 6 months.
  - f. **SAW CLEANERS:** Check condition of blade cleaners, replace every 4 weeks.
  - g. **MEAT GAUGE ASSEMBLY:** Check free movement of meat gauge plate on gear rack. Gear rack to be kept lubricated at all times with light food grade oil. Check operation of release handle. Check that worm gear engages properly with gear rack.
  - h. **MEAT CARRIAGE ASSEMBLY:** Check free movement through full range of travel. Check side to side for excessive clearance, adjust as necessary. Check condition of and grease bearings, replace as necessary. Check condition of thumb guard, replace as necessary.
  - i. **SAFETY ITEMS:** Safety end cut pusher plate is with machine and accessible. All warning labels are present and legible. Model and Serial Number plate is affixed and legible. Manual accessible to operator.

## B. LUBRICATION:

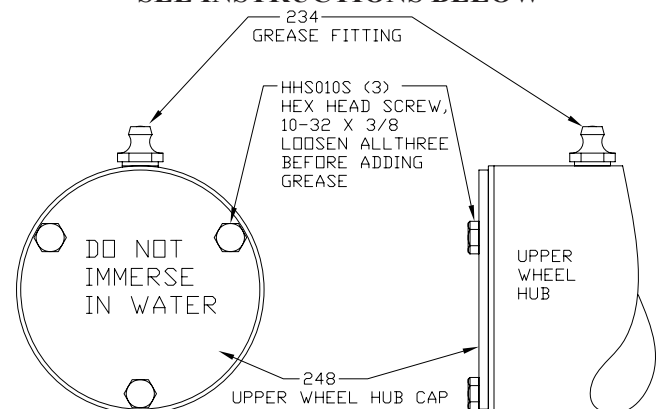
1. **UPPER WHEEL BEARINGS:** Grease every four (4) months. Change grease every twelve (12) months. (See instructions at right.)
2. **LOWER BEARING HOUSING:** Grease every four (4) months. Change grease every twelve (12) months.
3. **MEAT CARRIAGE BEARINGS:** Grease every four (4) weeks.
4. **SAW GUIDE BAR:** Oil daily with food machine oil.
5. **MEAT GAUGE GEAR RACK:** Oil daily with food machine oil.
6. **BLADE TENSION SPRING SCREW ASSEMBLY:** Grease every 4 weeks. Note: Remove upper wheel and turn #14782 Blade Tension screw clockwise until it bottoms out against #14781 Blade Tension Handle then fill the cavity under the O-Ring on the #14782 Blade Tension Screw with #374 Shell Cassida Grease EPS-2 and reassemble.
7. **MOTOR BEARINGS:** Bearing grease will lose its lubricating ability over time, not suddenly. The lubricating ability of a grease (over time) depends primarily on the type of grease, the size of the bearing, the speed at which the bearing operates and the severity of the operating conditions. Good results can be obtained if the following recommendations are used in your maintenance program.

A high grade ball or roller bearing grease should be used. Recommended grease for standard service conditions is Polyrex EM (Exxon Mobil).

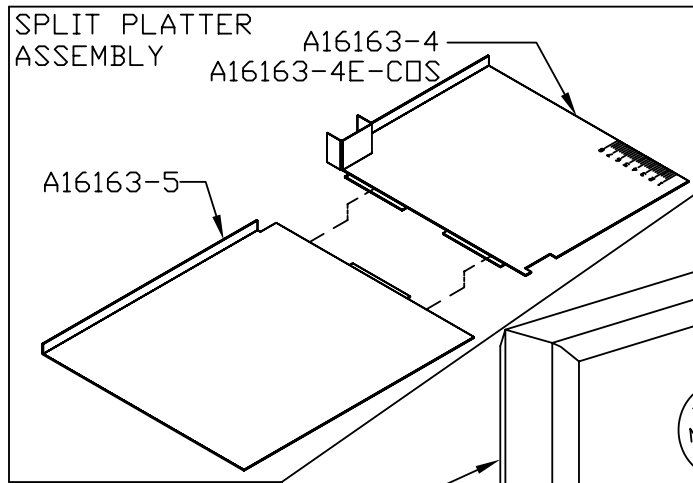
Equivalent and compatible greases include: Texaco Polystar, Rykon Premium #2, Pennzoil Pen 2 Lube, and Chevron SRI.

Recommended lubrications intervals is every 12 months with the equivalent of two (2) teaspoons of grease. If the motor does not have zerk fittings, the motor bearings are sealed for life.

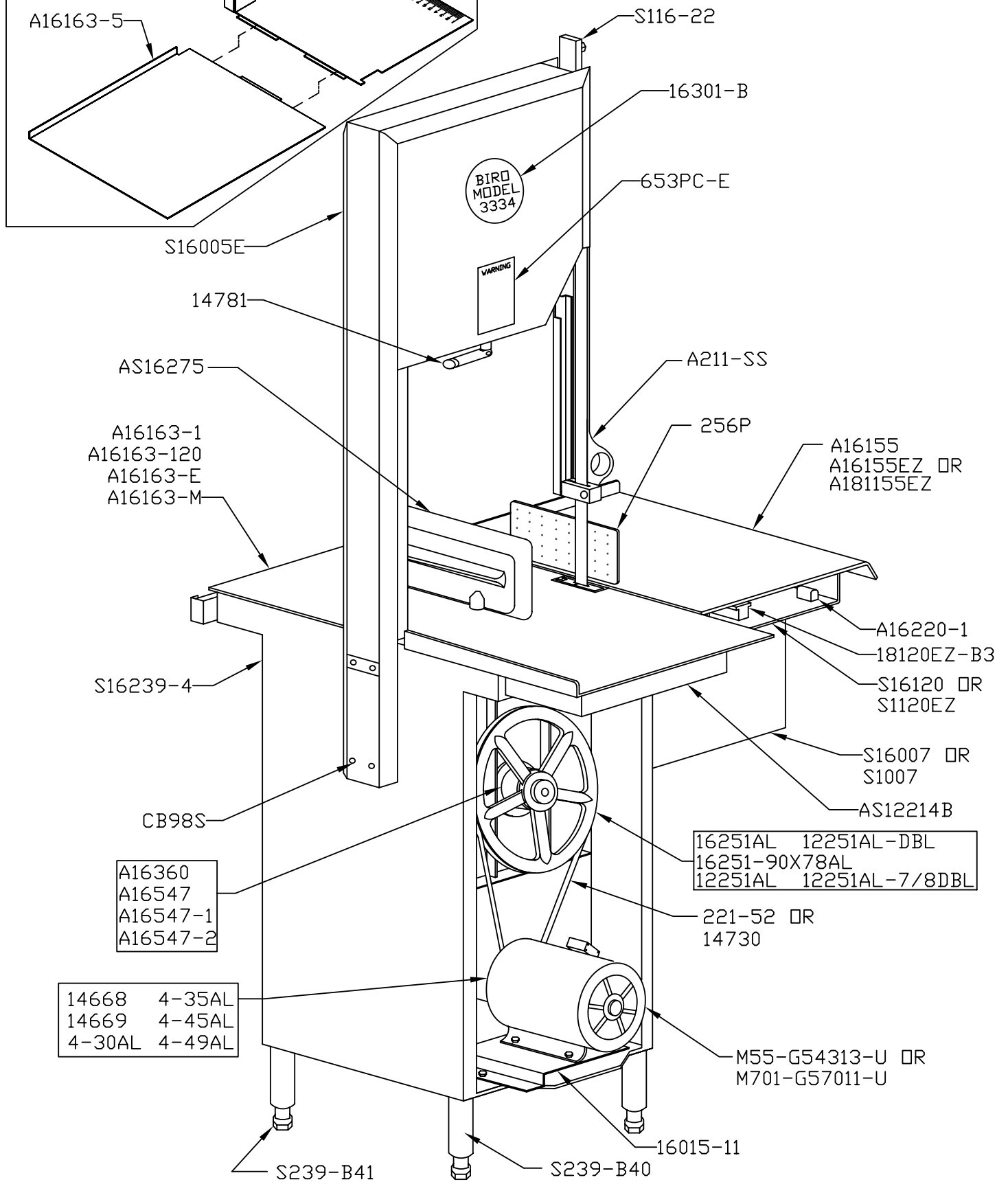
### USE BIRO No. 374 GREASE FOR RE-GREASING SEE INSTRUCTIONS BELOW



When lubricating the upper wheel bearing it is important that the three hex head screws securing the upper wheel hub cap be loosened slightly before attempting to pump grease into the grease fitting. Loosening the screws allows for an escape of old broken down grease and air from the bearing cavity. Failure to loosen the screws before greasing the upper bearings can cause the upper shaft seal to be dislodged from the upper wheel allowing grease to escape and moisture to get into the cavity. When finished greasing the bearings, retighten the three screws. Take care to also clean off any grease that was pushed out of the cavity during greasing.

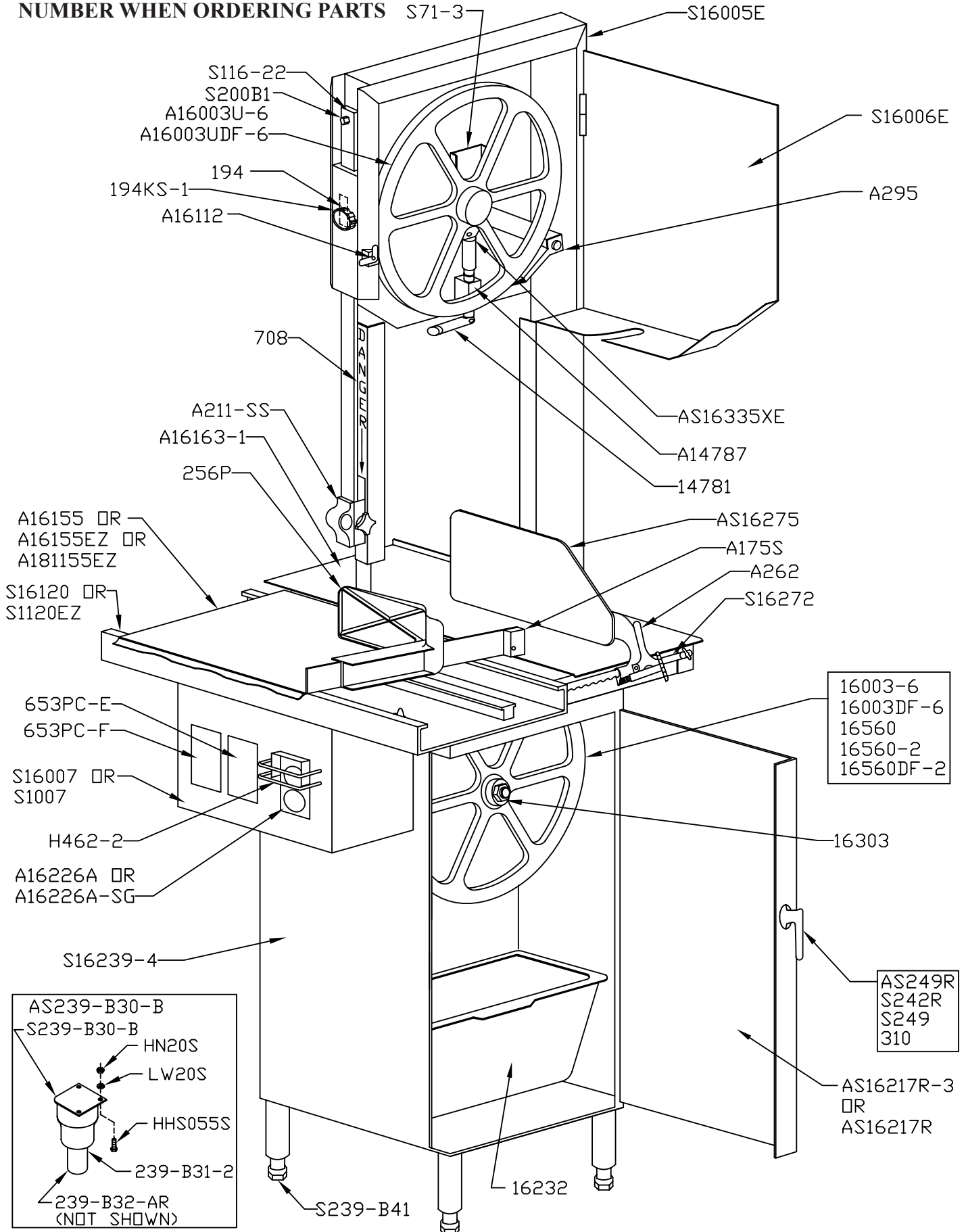


**NOTE:**  
**ALWAYS REPORT MACHINE SERIAL NUMBER WHEN ORDERING PARTS**

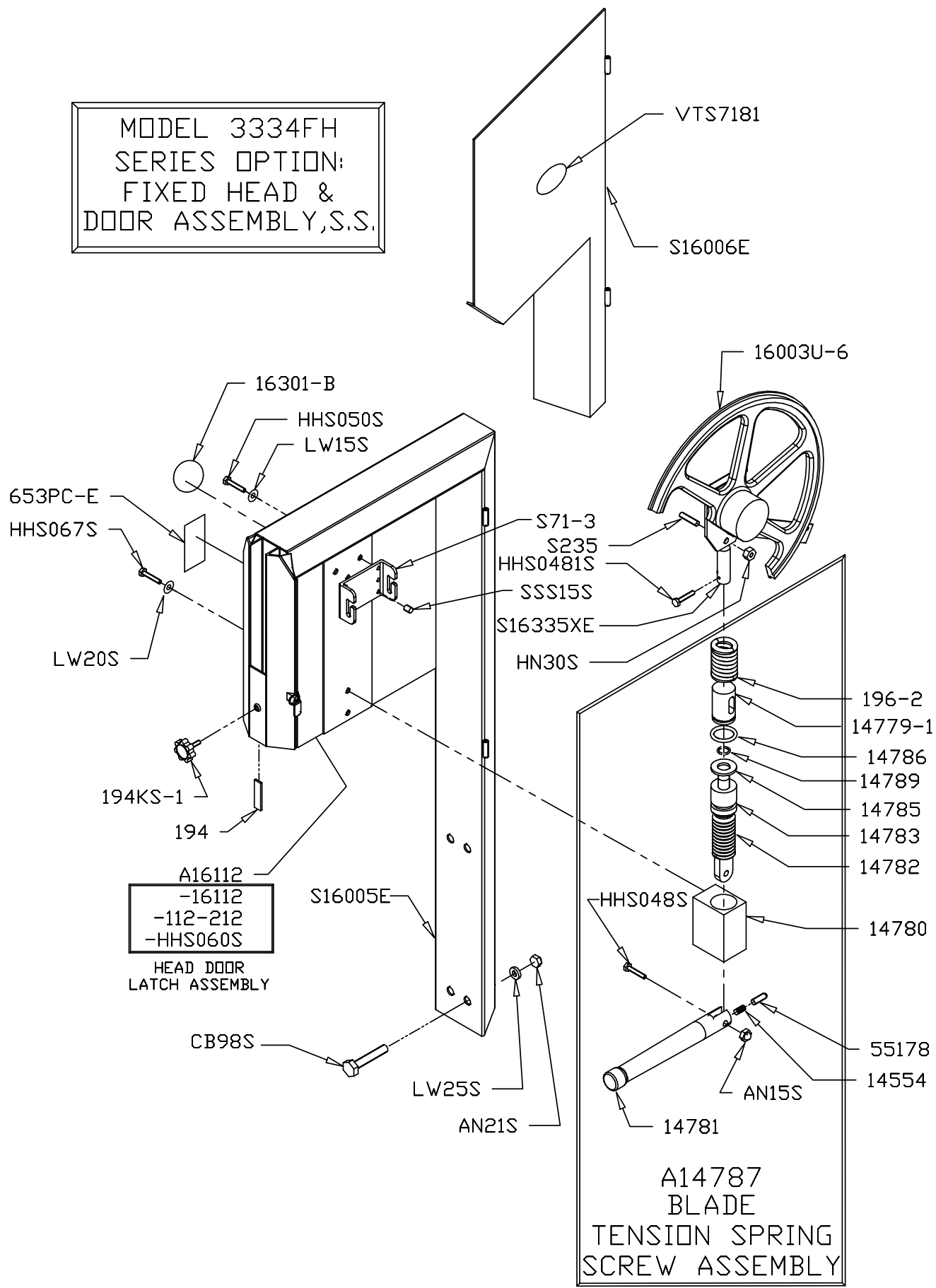




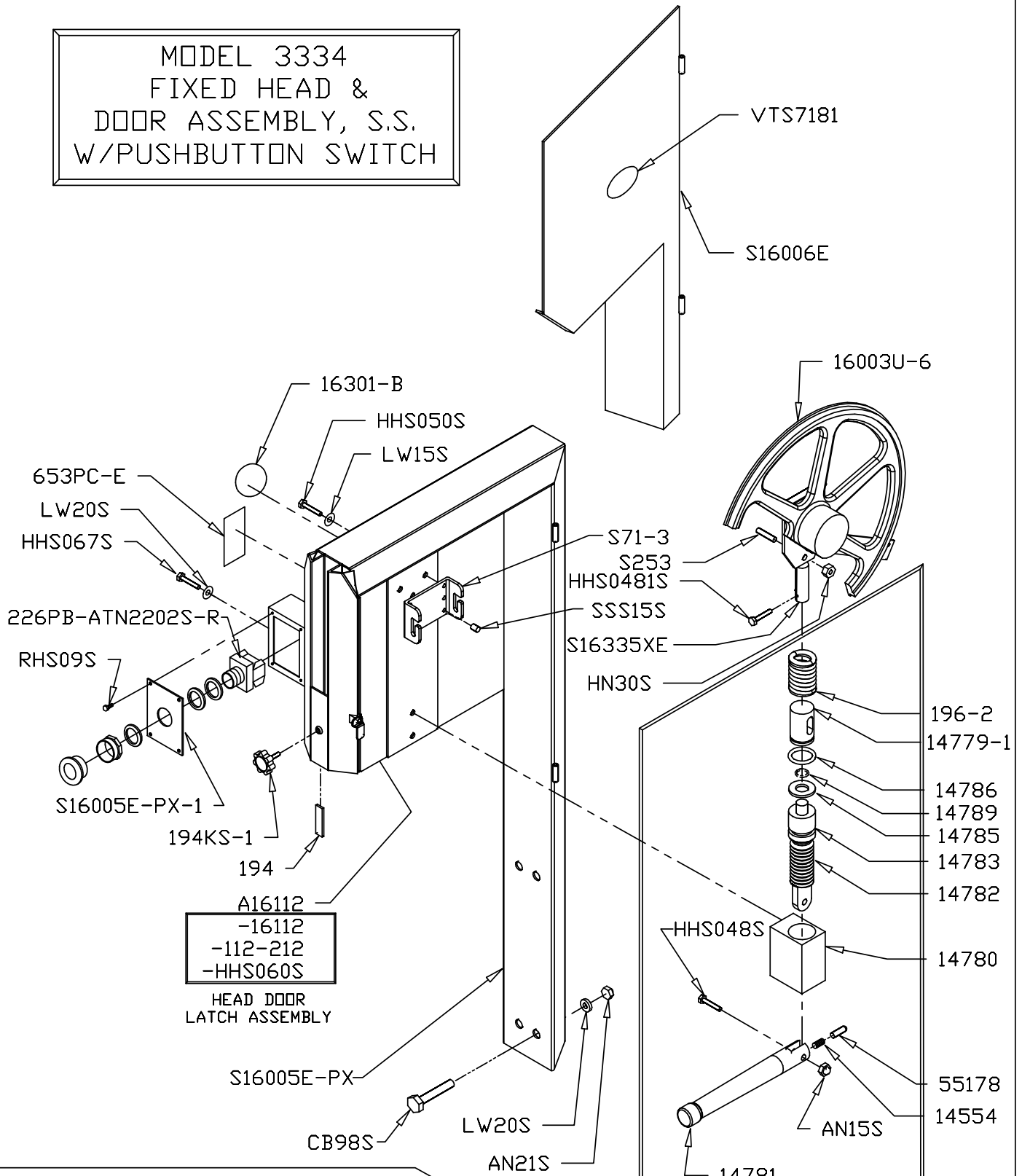
**NOTE:**  
**ALWAYS REPORT MACHINE SERIAL**  
**NUMBER WHEN ORDERING PARTS**



MODEL 3334FH  
 SERIES OPTION:  
 FIXED HEAD &  
 DOOR ASSEMBLY, S.S.



MODEL 3334  
FIXED HEAD &  
DOOR ASSEMBLY, S.S.  
W/PUSHBUTTON SWITCH



MODEL 3334FH FIXED HEAD  
OPTION WITH ON-OFF SWITCH  
LOCATED ON HEAD WELDMENT

PART NO.	DESCRIPTION
S16005E-PX	HEAD, FIXED WITH PUSHBUTTON CONTROL BOX
226PB+ATN2202S-R	PUSHBUTTON SWITCH 3 POS MOM IN & OUT
S16005E-PX-1	SWITCH COVER WITH GASKET
RHS09S	ROUND HEAD SCREW 10-32 X 3/8, S.S.

# ITEM No. 14782K Blade Tension Screw Conversion Kit

## INSTALLATION INSTRUCTIONS

Disconnect the machine from main power supply.

Loosen tension on the saw blade and remove the upper wheel assembly.

Unbolt the (A) tensioning handle from the (B) blade tension screw.

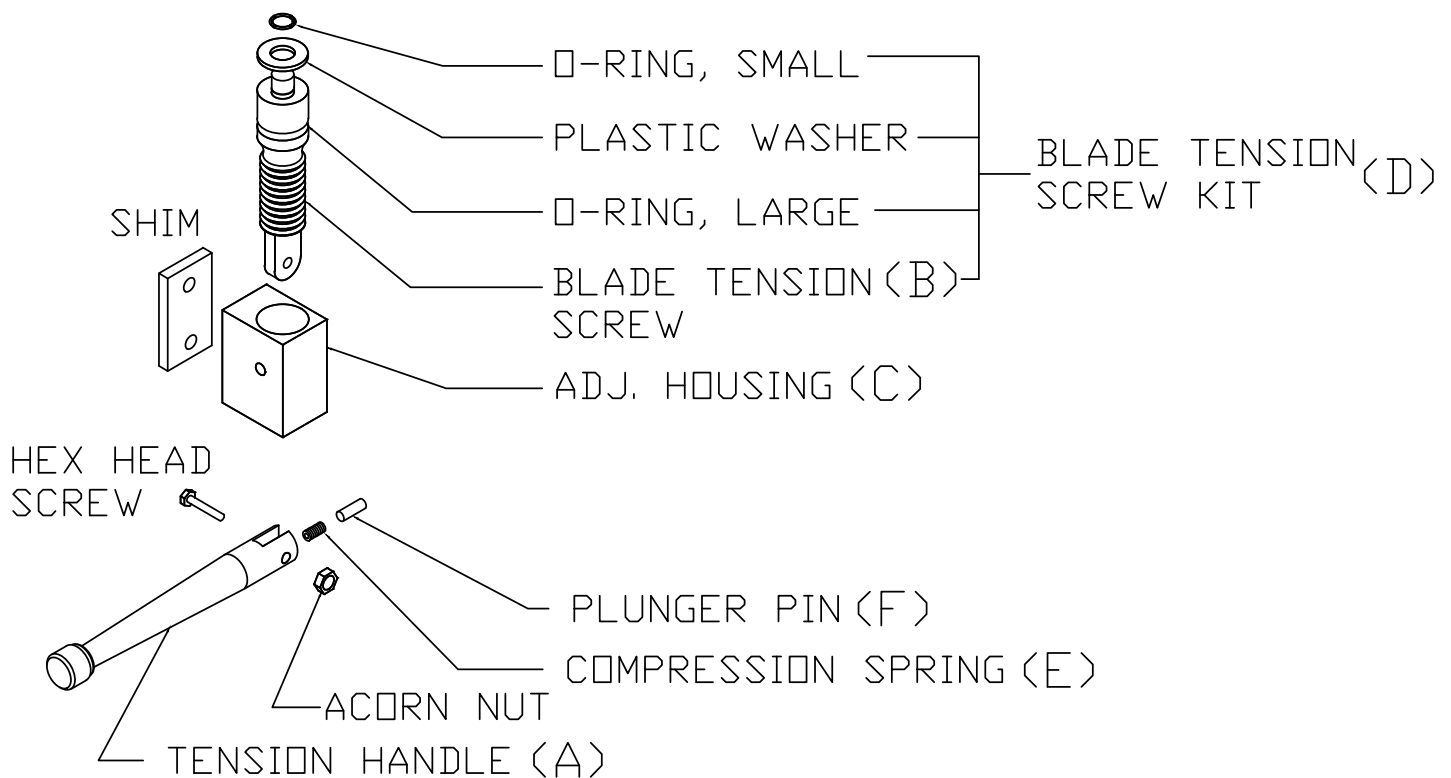
At the bottom handle mount turn the (B) blade tension screw clockwise until it can be lifted out of the (C) housing.

Apply a good food grade grease to the replacement (D) tension screw and install into the (C) housing turning counterclockwise until it bottoms out.

Replace the (A) tensioning handle. Be sure the (E) spring and (F) plunger pin are still present in the end of the (A) handle.

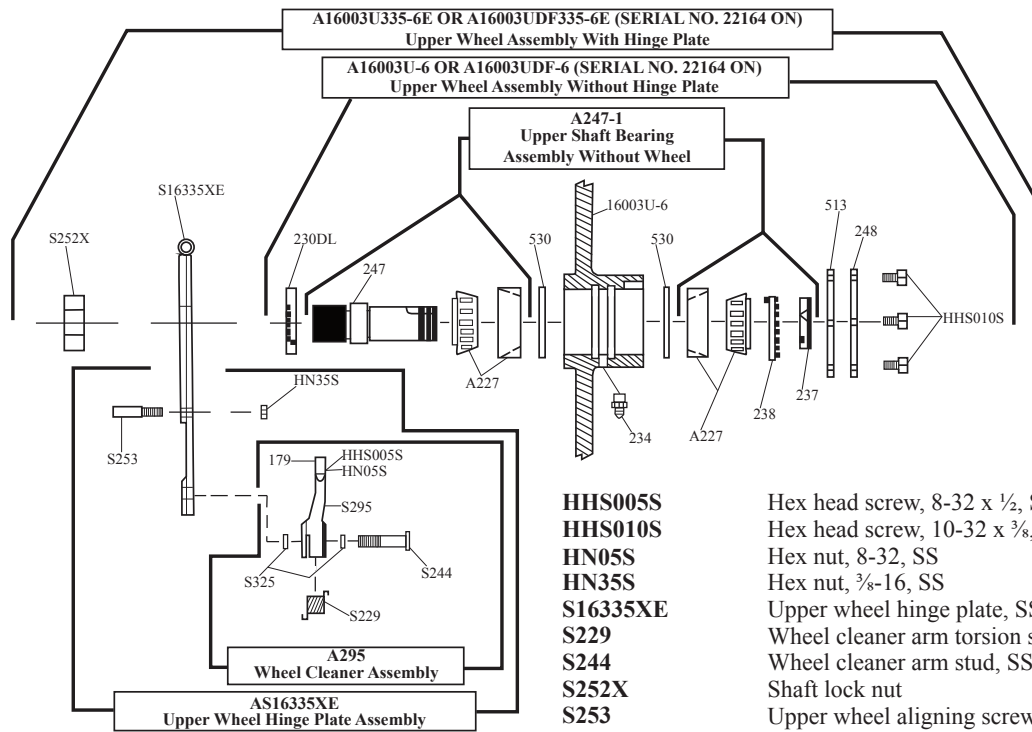
Replace the upper wheel assembly and the blade.

Tension the blade.



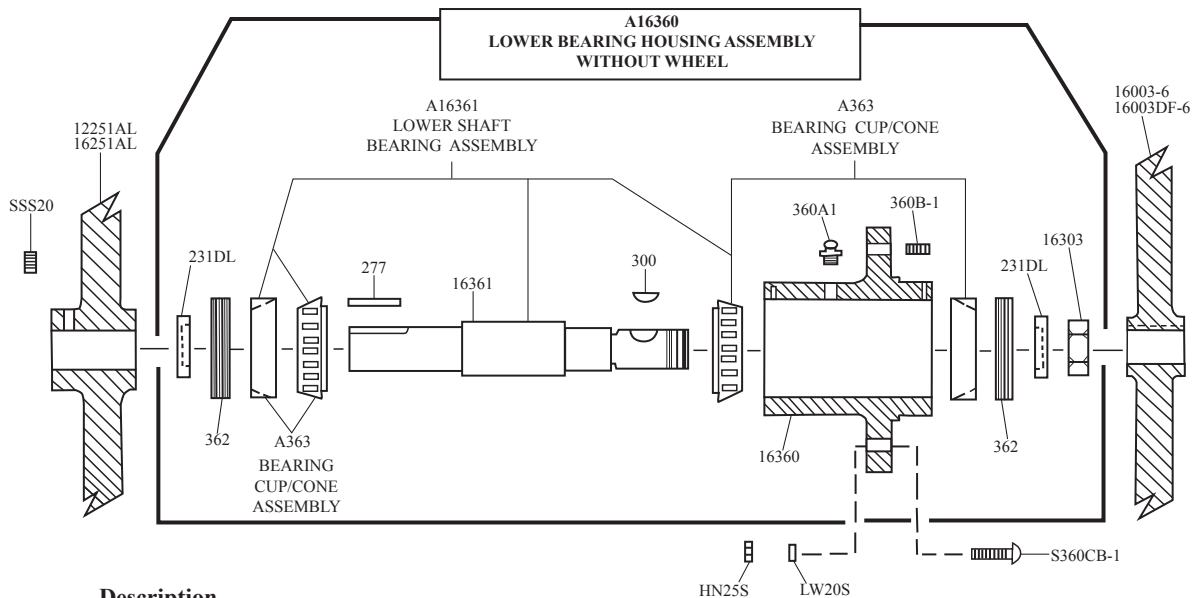
(A) 14781	Tension Handle	14783	O-Ring, Large
(B) 14782	Blade Tension Screw	14785	Plastic Washer
(C) 14780	Adjustment Housing	14788	Shim, 1/8" (use as needed)
(D) 14782K	Blade Tension Screw Kit	14788-1	Shim, 1/16" (use as needed)
(E) 14554	Compression Spring	14789	O-Ring, Small
(F) 55178	Plunger Pin	AN15S	Acorn Nut, 1/4-20
		HHS048S	Hex Head Screw, 1/4-20 x 1 1/4

## OPERATOR'S NOTES



<b>HHS005S</b>	Hex head screw, 8-32 x 1/2, SS
<b>HHS010S</b>	Hex head screw, 10-32 x 3/8, SS
<b>HN05S</b>	Hex nut, 8-32, SS
<b>HN35S</b>	Hex nut, 3/8-16, SS
<b>S16335XE</b>	Upper wheel hinge plate, SS
<b>S229</b>	Wheel cleaner arm torsion spring, SS
<b>S244</b>	Wheel cleaner arm stud, SS
<b>S252X</b>	Shaft lock nut
<b>S253</b>	Upper wheel aligning screw, SS
<b>S295</b>	Wheel cleaner arm, SS
<b>S325</b>	Wheel cleaner washer, SS
<b>16003U-6</b>	Upper wheel, 16", 6 spoke
<b>179</b>	Wheel cleaner
<b>230DL</b>	Upper shaft seal, double lip
<b>234</b>	Grease fitting, upper wheel
<b>237</b>	Upper shaft castellated lock nut
<b>238</b>	Upper shaft castellated lock nut washer
<b>247</b>	Upper shaft
<b>248</b>	Upper wheel hub cap
<b>513</b>	Upper wheel hub gasket
<b>530</b>	Retaining ring, (2 req.)

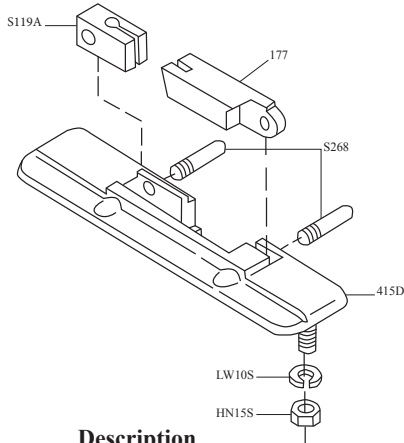
Item No.	Description
<b>A16003U-6</b>	Upper wheel assembly without hinge plate
<b>A16003U335-6E</b>	Upper wheel assembly with hinge plate
<b>A16003UDF-6</b>	Upper double flange wheel assembly without hinge plate
<b>A16003UDF335-6E</b>	Upper double flange wheel assembly with hinge plate
<b>A247-1</b>	Upper shaft bearing assembly w/o spacer
<b>AS16335XE</b>	Upper wheel hinge plate assembly
<b>A227</b>	Bearing cup/cone assembly
<b>A295</b>	Wheel cleaner assembly



Item No.	Description
<b>A16360</b>	Lower bearing housing assembly w/o wheel
<b>A16361</b>	Lower shaft bearing assembly
<b>A363</b>	Lower bearing cup/cone assembly
<b>HN25S</b>	Hex nut, 3/8 -16 SS
<b>LW20S</b>	Lock washer, 3/8 SS
<b>SSS20</b>	Set screw, 3/8 -16 x 3/8 cup point, SS
<b>S360CB-1</b>	Carriage bolt, 3/8 -16 x 1 1/4, SS
<b>12251AL</b>	Upper V-belt pulley, 9 x 1 aluminum
<b>16003-6</b>	Lower wheel 16", 6 spoke
<b>16003DF-6</b>	Lower double flange wheel 16", 6 spoke
<b>16251AL</b>	Upper V-belt pulley 11.4 x 1 aluminum
<b>16303</b>	Lower shaft nut
<b>16360</b>	Lower bearing housing
<b>16361</b>	Lower shaft
<b>231DL</b>	Lower shaft seal, double lip
<b>277</b>	Lower shaft key
<b>300</b>	Lower shaft Woodruff key
<b>360A1</b>	Grease fitting
<b>360B-1</b>	Set screw, 1/2 -13 x 1/2 flat point
<b>362</b>	Lower bearing housing adjusting cap

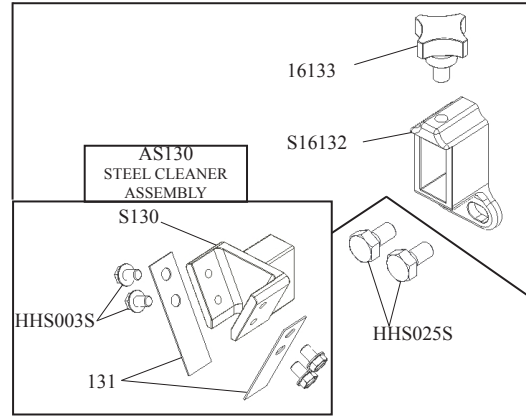


**A415D  
STATIONARY BAR ASSEMBLY**

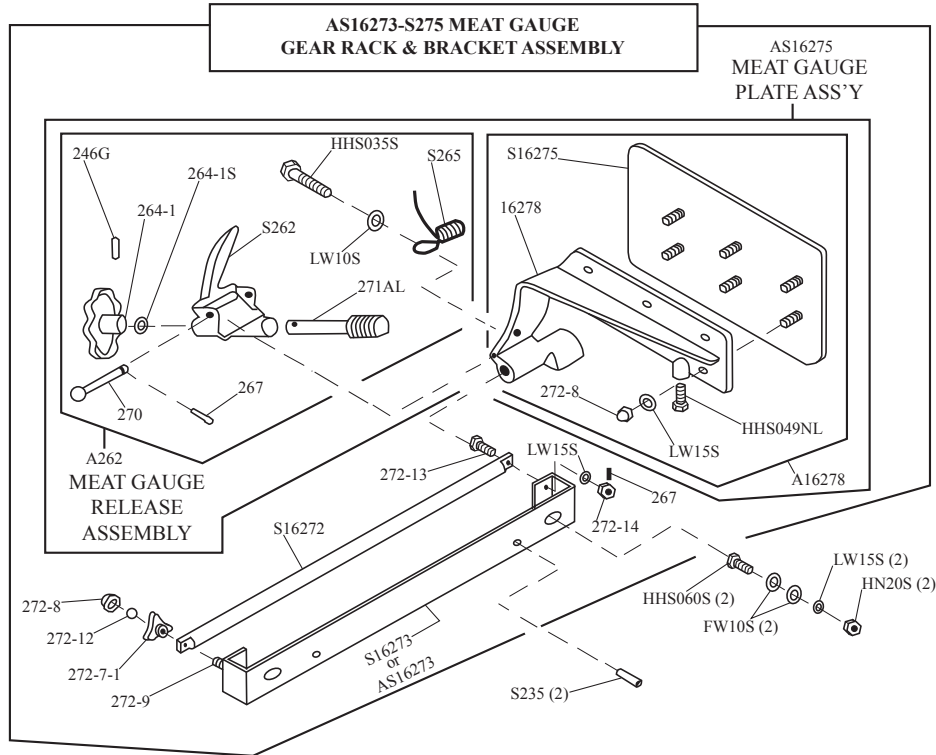


Item No.	Description
A415D	Stationary bar assembly
HN15S	Hex nut, 1/4-20 SS
LW10S	Lock washer, 1/4 SS
S119A	Saw guide in stationary bar, SS
S268	Stationary bar headless screw
177	Nylon filler
415D	Stationary bar

**AS16132  
REAR STEEL CLEANER ASSEMBLY**



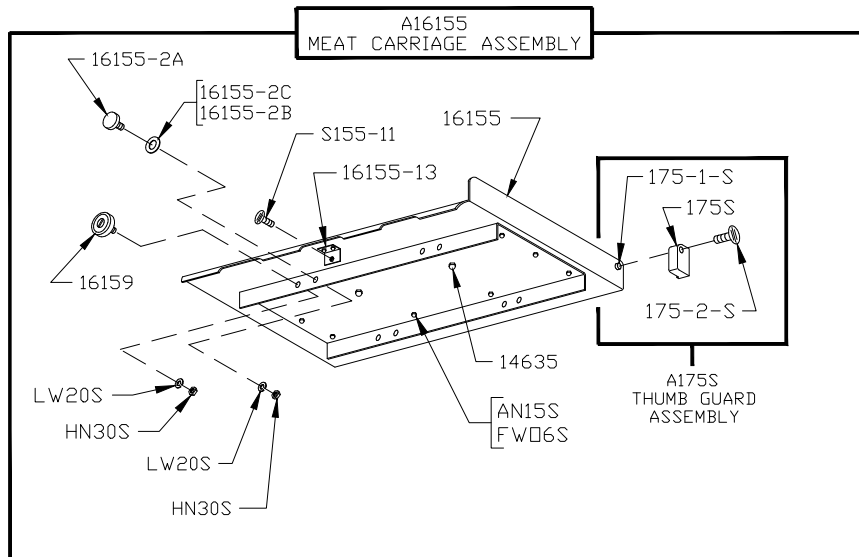
Item No.	Description
AS130	Saw cleaner assembly, SS
AS16132	Rear saw blade cleaner assembly, SS
HHS003S	Hex head screw 8-32 x 1/4", SS
HHS025S	Hex head screw 1/4-20 x 1/2", SS
S130	Saw cleaner bracket, rear, SS
S16132	Saw cleaner bracket holder, rear, SS
131	Saw cleaner, SS
16133	Fastener knob - 4 point



Item No.	Description	Item No.	Description
A16278	Meat gauge plate assembly less release assembly	S235	Taper pin, 4 x 3/4, SS
A262	Meat gauge release assembly	S262	Meat gauge release handle, SS
AS16273	Meat gauge bracket assembly	S264-1	Meat gauge hand wheel, SS
AS16273-S275	Meat gauge gear rack & bracket assembly	S265	Meat gauge release spring
AS16275	Meat gauge plate assembly with release ass'y	S270	Meat gauge release pin
FW10S	Flat washer, 5/16, SS	16278	Meat gauge arm
HHS035S	Hex head screw, 1/4-20 x 5/8	264G	Meat gauge hand wheel groove pin
HHS049NL	Hex head screw, 5/16-20 x 1/2, nylon	264-1S	Hand wheel shim
HHS060S	Hex head screw, 5/16-18 x 1, SS	267	Meat gauge release cotter key
HN20S	Hex nut, 5/16-18, SS	271AL	Meat gauge worm gear, aluminum
LW10S	Lock washer, 1/4, SS	272-7-1	Lock knob, 5/16-18, 3 point
LW15S	Lock washer, 5/16, SS	272-8	Cap nut, 5/16-18, SS
S16272	Meat gauge gear rack, SS	272-9	Hex bolt, 5/16-18 x 2 SS
S16273	Meat gauge bracket, SS	272-12	Brass ball
S16275	Meat gauge plate, SS	272-13	Hex head screw, 5/16-18 x 1 1/4, SS
		272-14	Castellated nut, 5/16-18, SS

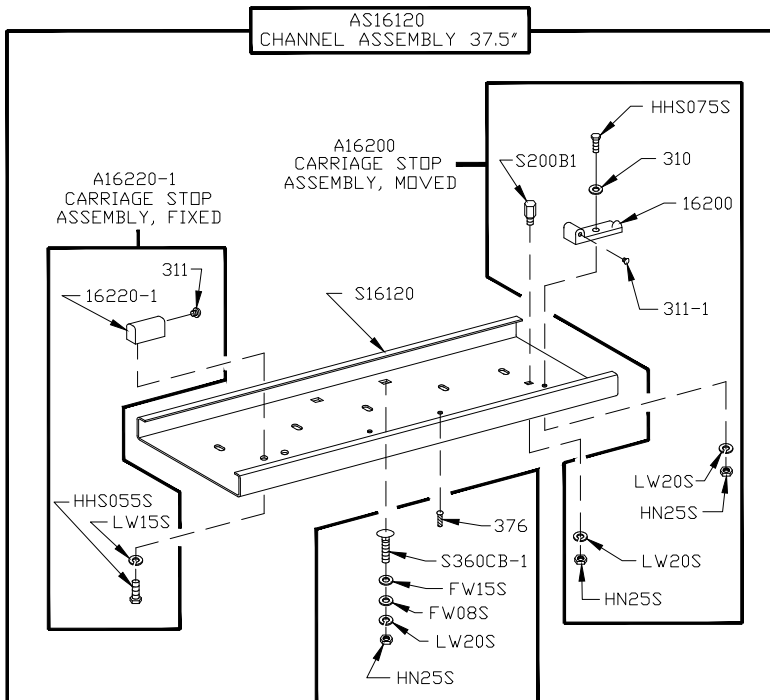


## STANDARD 3334FH MEAT CARRIAGE & CHANNEL



Item No.	Description
<b>A16155</b>	Meat carriage assembly complete
<b>A175S</b>	Thumb guard assembly
<b>FW06S</b>	Flat washer, 1/4 SS
<b>AN15S</b>	Acorn nut, 1/4-20 SS
<b>AN20S</b>	Acorn nut, 3/8-16 SS
<b>HN30S</b>	Hex nut, 3/8-16 light jam, SS
<b>LW20S</b>	Lock washer, 3/8 regular, SS
<b>S155-11</b>	Meat carriage stop thumb screw
<b>S155</b>	Meat carriage top only (NSS)
<b>S155-R</b>	Raw meat carriage top only (DNS)

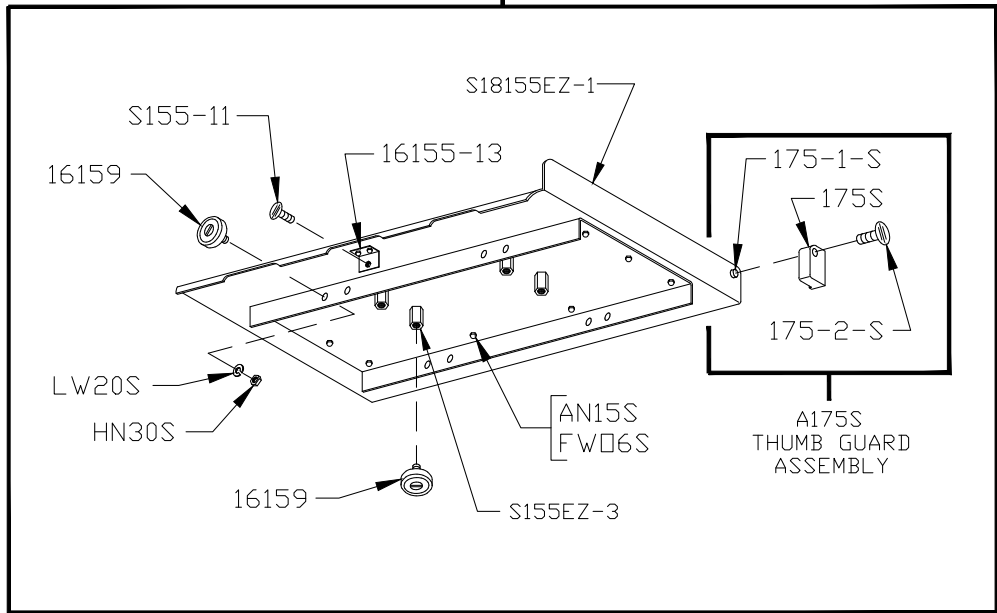
Item No.	Description
<b>16155</b>	Meat carriage top & angle only
<b>16155-13</b>	Carriage stop angle SS, welded
<b>16155-2A</b>	Meat carriage guide
<b>16155-2B</b>	Meat carriage guide spacer, 1/64 thick
<b>16155-2C</b>	Meat carriage guide spacer, 1/32 thick
<b>16155AEZ-1</b>	Meat carriage angle plate (DNS)
<b>16159</b>	Meat carriage bearing SS
<b>175S</b>	Thumb guard, nylon
<b>175-1-S</b>	Thumb guard nut, SS
<b>175-2-S</b>	Thumb screw, 1/4-20 x 1/2, SS



Item No.	Description
<b>A16200</b>	Carriage stop assembly, movable
<b>A16220-1</b>	Carriage stop assembly, fixed
<b>AS16120</b>	Channel assembly, 37.5"
<b>FW08S</b>	Flat washer, 3/8 SS
<b>FW15S</b>	Flat washer, 1/2 SS
<b>HHS055S</b>	Hex head screw, 5/16-18 x 3/4 SS
<b>HHS075S</b>	Hex head screw, 3/8-16 x 1 1/4 SS
<b>HN25S</b>	Hex nut, 3/8-16 SS
<b>LW15S</b>	Lock washer 5/16 SS
<b>LW20S</b>	Lock washer 3/8 SS
<b>S16120</b>	Channel, 37.5" SS
<b>S200B1</b>	Stop stud SS, guide bar & carriage stop
<b>S360CB-1</b>	Carriage bolt, 3/8-16 x 1 1/4 SS
<b>16200</b>	Carriage stop, movable
<b>16220-1</b>	Carriage stop, fixed
<b>310</b>	Waved washer
<b>311</b>	Rubber bumper, fixed stop
<b>311-1</b>	Rubber bumper, movable stop
<b>376</b>	Drive screw #10 x 1/2 SS



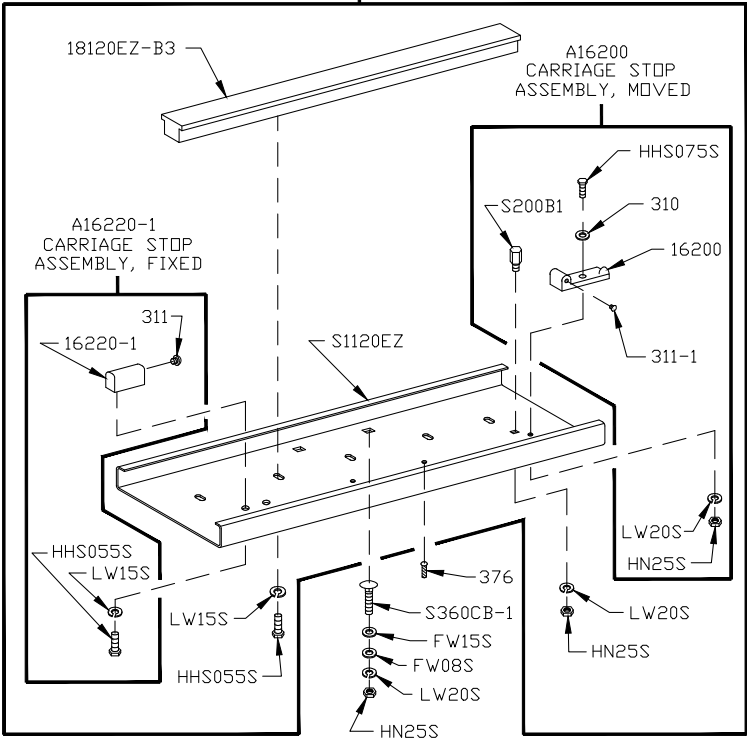
**A181155EZ  
MEAT CARRIAGE ASSEMBLY,  
EZ FLOW**



**STANDARD ON  
3334-4003FH  
EZ FLOW MEAT  
CARRIAGE & CHANNEL  
ALSO OPTIONAL ON ALL  
OTHER 3334**

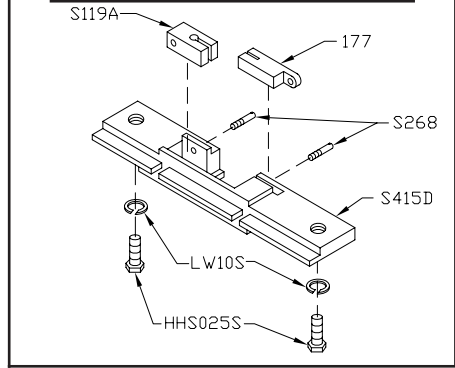
Item No.	Description	Item No.	Description
A175S	Thumb guard assembly	S155EZ-3	Hex stand off - EZ Flow carriage
A181155EZ	Meat carriage assembly, EZ Flow	S18155EZ-1	Carriage top w/ weld studs
AN15S	Acorn nut, 1/4-20 SS	16155-13	Carriage stop angle SS
FW06S	Flat washer, 1/4 SS	16159	Carriage bearing
HN30S	Hex nut, 3/8-16 light jam, SS	175S	Thumb guard - Nylon
LW20S	Lock washer, 3/8 regular, SS	175-1-S	Thumb guard nut, SS
S155-11	Meat carriage stop thumb screw	175-2-S	Thumb screw, 1/4-20 x 1/2, SS

**AS1120EZ  
CHANNEL ASSEMBLY  
EZ FLOW**



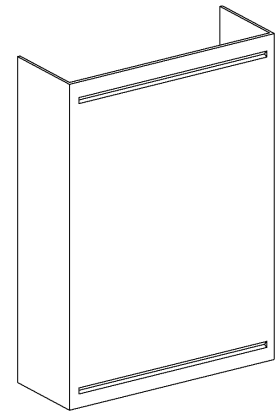
Item No.	Description
A16200	Carriage stop assembly, movable
A16220-1	Carriage stop assembly, fixed
AS1120EZ	Channel assembly, EZ Flow
FW08S	Flat washer, 3/8 SS
FW15S	Flat washer, 1/2 SS
HHS055S	Hex head screw, 5/16-18 x 3/4 SS
HHS075S	Hex head screw, 3/8-16 x 1 1/4 SS
HN25S	Hex nut, 3/8-16 SS
LW15S	Lock washer 5/16 SS
LW20S	Lock washer 3/8 SS
S1120EZ	Channel, EZ Flow
S200B1	Stop stud, SS
S360CB-1	Carriage bolt, 3/8-16 x 1 1/4 SS
16200	Carriage stop, movable
16220-1	Carriage stop, fixed
18120EZ-B3	Guide bar, EZ Flow
310	Waved washer
311	Rubber bumper, fixed stop
311-1	Rubber bumper, movable stop
376	Drive screw #10 x 1/2 SS
NOT SHOWN	
S1007	Channel bracket, SS

**AS415D  
STATIONARY BAR  
ASSEMBLY, SS**



Item No.	Description
AS415D	Stationary bar assembly, SS
HHS025S	Hex head screw, 1/4-20 x 1/2 SS
LW10S	Lock washer, 1/4 SS
S268	Stationary bar headless screw
S119A	Saw guide in stationary bar, SS
S415D	Stationary bar, SS
177	Nylon filler

**S16217L  
BASE DOOR  
LEFT, SS**

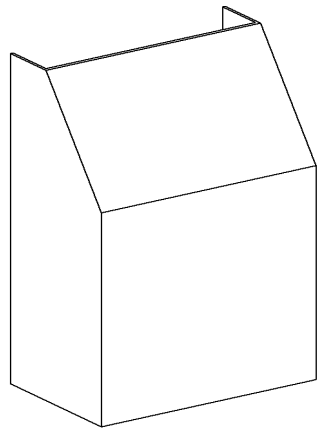


USE WITH

Motor Mfg.	Model No.	Specifications
Doerr	XR72927	1-1/2HP, 220/440-50/60-3 open
Doerr	R72929	2HP, 220/440-50/60-3 open
U.S. Motor	G54313	2HP, 220/440-50/60-3 open
Doerr	73020	2HP, 550-60-3 open
U.S. Motor	G57016	2HP, 550-60-3 open

USE WITH

Motor Mfg.	Model No.	Specifications
Doerr	73032	1-1/2HP, 115/230-50-1 open
U.S. Motor	G57347	1-1/2HP, 115/230-50-1 open
Doerr	72933	1-1/2HP, 115/230-50-3 open
Baldor	L3605	2HP, 115/230-60-1 TE
Baldor	L3605-50	2HP, 115/230-50-1 TE
Baldor	L1322T	2HP, 115/230-60-1 open
Doerr	67385	2HP, 208/220/440-50/60-3 TE
Baldor	M3558T-5	2HP, 550-60-3 TE
Baldor	M3558T-50	2HP, 220/380/415-50-3 TE
Baldor	M3558T-8	2HP, 200-60-3 TE
Doerr	72540	3HP, 220/440-50/60-3 TE
Doerr	75425	3HP, 220/440-50/60-3 TE
U.S. Motor	G57011	3HP, 220/440-50/60-3 TE
Baldor	M3611	3HP, 220/440-50/60-3 TE
Baldor	M3611T-50	3HP, 220/380/440-50-3 TE
Baldor	M3611T-8	3HP, 200-60-3 TE
Doerr	73031	5HP, 220/440-50/60-3 TE
Doerr	A907	5HP, 220/440-50/60-3 TE



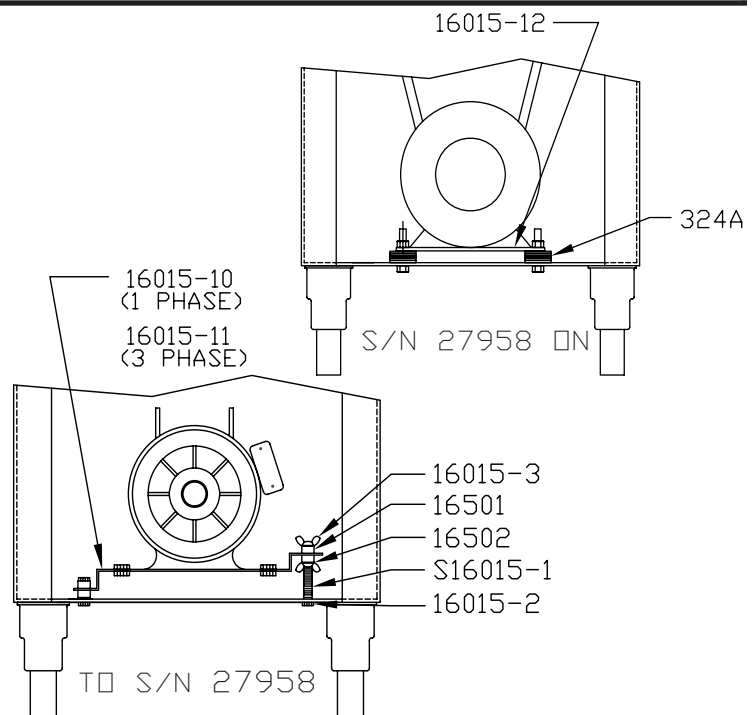
**S16217LTP  
BASE DOOR  
LEFT, TAPERED  
PANEL, SS**

**MOTOR ADJUSTMENT**

**ADJUSTMENTS**

1. For tightening motor V-belt on *rigid* base plate, remove appropriate quantity of shims (Part No. 324A) under the motor until the desired total flex of the V-belt is approximately 1/2".

1. For tightening motor V-belt on *floating* adjustable motor mounting plates (Part No. 16015-10 or 16015-11), loosen the upper wing nuts (Part No. 16015-3). Then loosen the bottom wing nuts (Part No. 16015-3) which are located under the mounting plate. This enables the motor mounting plate to drop to the desired belt tension. Re-tighten the upper wing nuts evenly so that the motor stays horizontal. Do not tighten belt to extremes. This will cause undue pressure on and premature failure of the motor bearings.

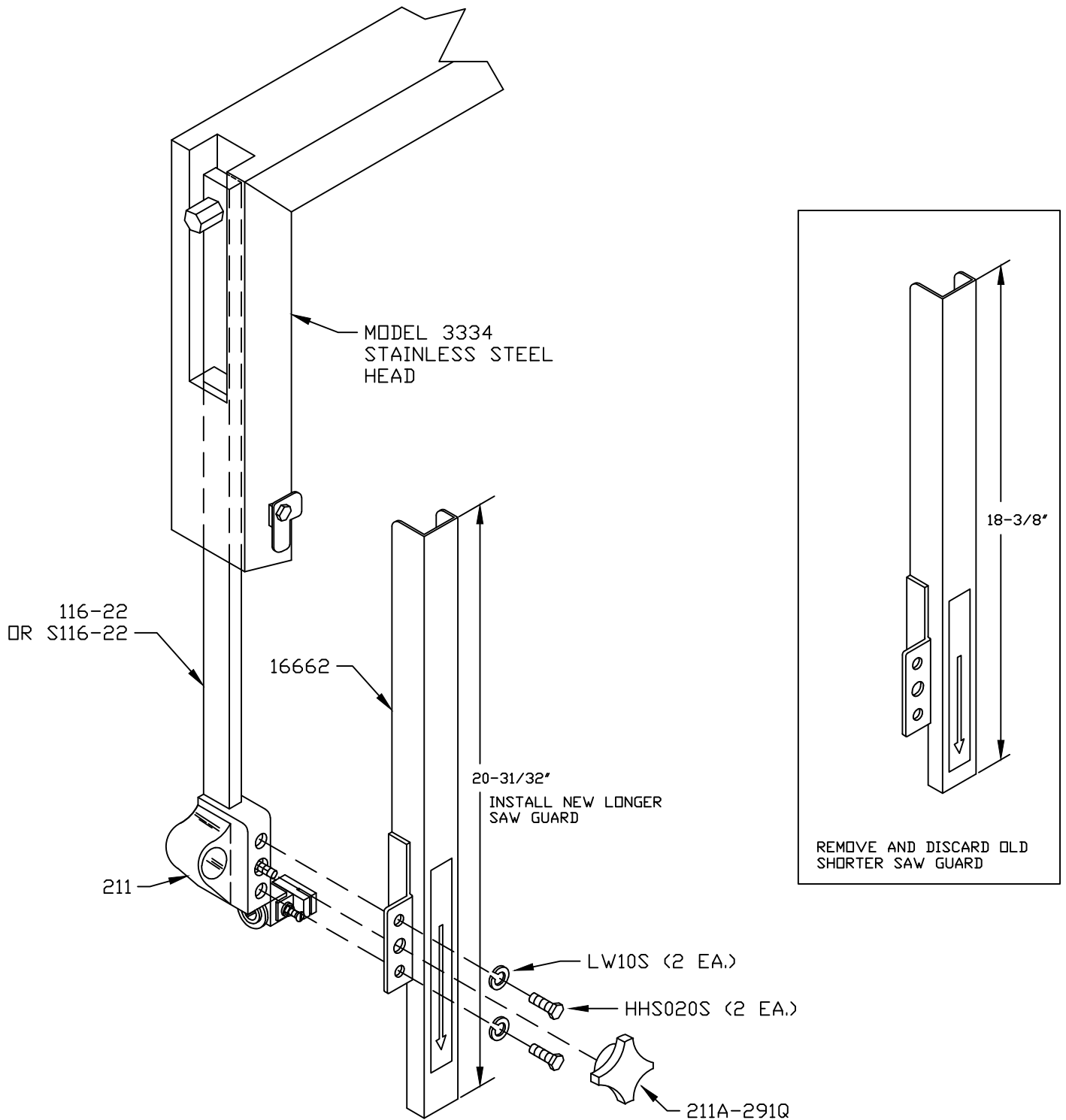


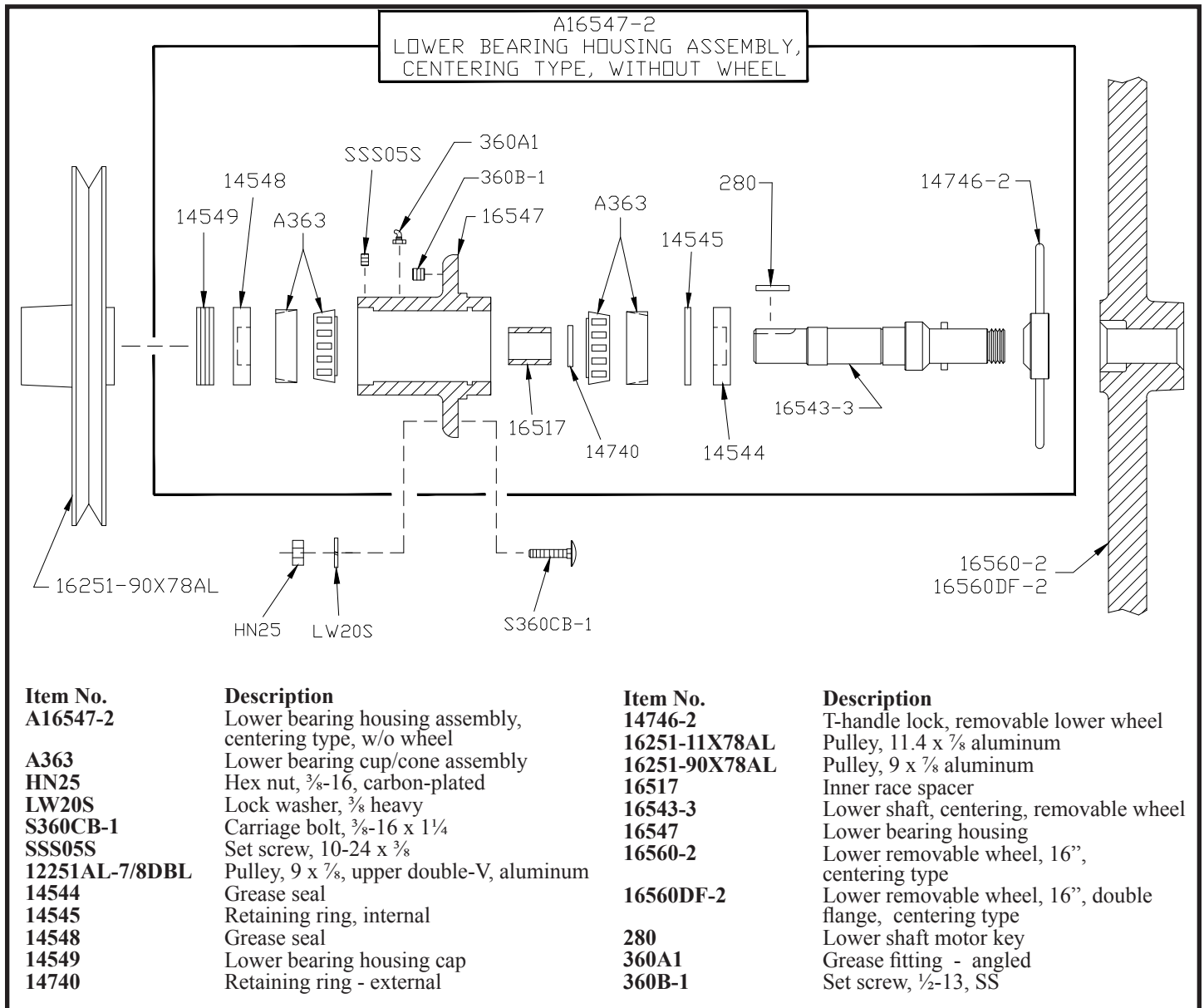


# LONGER SAW GUARD KIT

Item No. 16662K

This longer guard is for replacement on existing saws. Install the new guard with the 1/4" diameter screws supplied with the Saw Guard Kit, Item No. 16662K.





Item No.	Description	Item No.	Description
A16547-2	Lower bearing housing assembly, centering type, w/o wheel	14746-2	T-handle lock, removable lower wheel
A363	Lower bearing cup/cone assembly	16251-11X78AL	Pulley, 11.4 x 7/8 aluminum
HN25	Hex nut, 3/8-16, carbon-plated	16251-90X78AL	Pulley, 9 x 7/8 aluminum
LW20S	Lock washer, 3/8 heavy	16517	Inner race spacer
S360CB-1	Carriage bolt, 3/8-16 x 1 1/4	16543-3	Lower shaft, centering, removable wheel
SSS05S	Set screw, 10-24 x 3/8	16547	Lower bearing housing
12251AL-7/8DBL	Pulley, 9 x 7/8, upper double-V, aluminum	16560-2	Lower removable wheel, 16", centering type
14544	Grease seal	16560DF-2	Lower removable wheel, 16", double flange, centering type
14545	Retaining ring, internal	280	Lower shaft motor key
14548	Grease seal	360A1	Grease fitting - angled
14549	Lower bearing housing cap	360B-1	Set screw, 1/2-13, SS
14740	Retaining ring - external		

### OPERATOR'S NOTES

## **REMOVAL and INSTALLATION** **for Self-Centering Lower Removable Wheels**

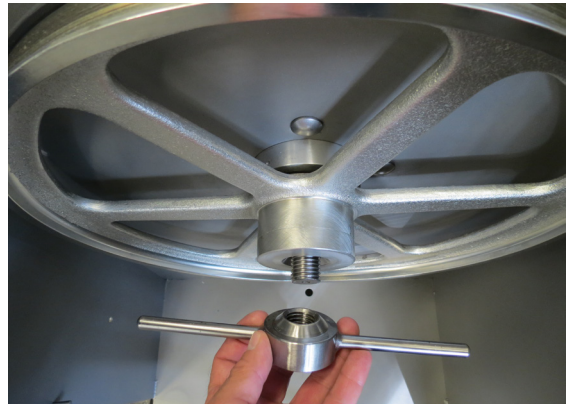
***ALWAYS** Turn Off, Unplug Machine From Power Source and Perform Lockout/Tagout Procedure to the Machine **BEFORE** Cleaning or Servicing.*

Follow disassembly procedures in the Cleaning Section of the Operating and Service Manual.

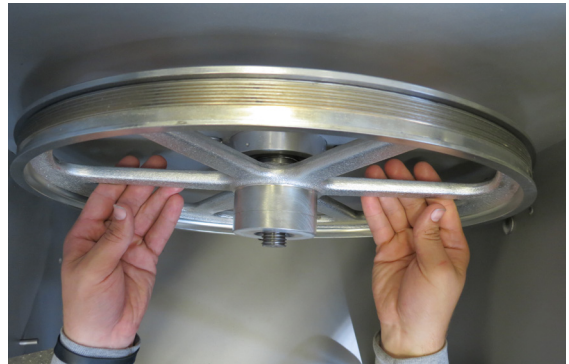
Removal of the Lower Wheel will be the last procedure.

### **REMOVAL**

Loosen Item No. 14746-2, T-Handle Lock and Remove from lower shaft.



Using both hands @ 3 and 9 o'clock positions, Pull wheel towards you with an even smooth motion.



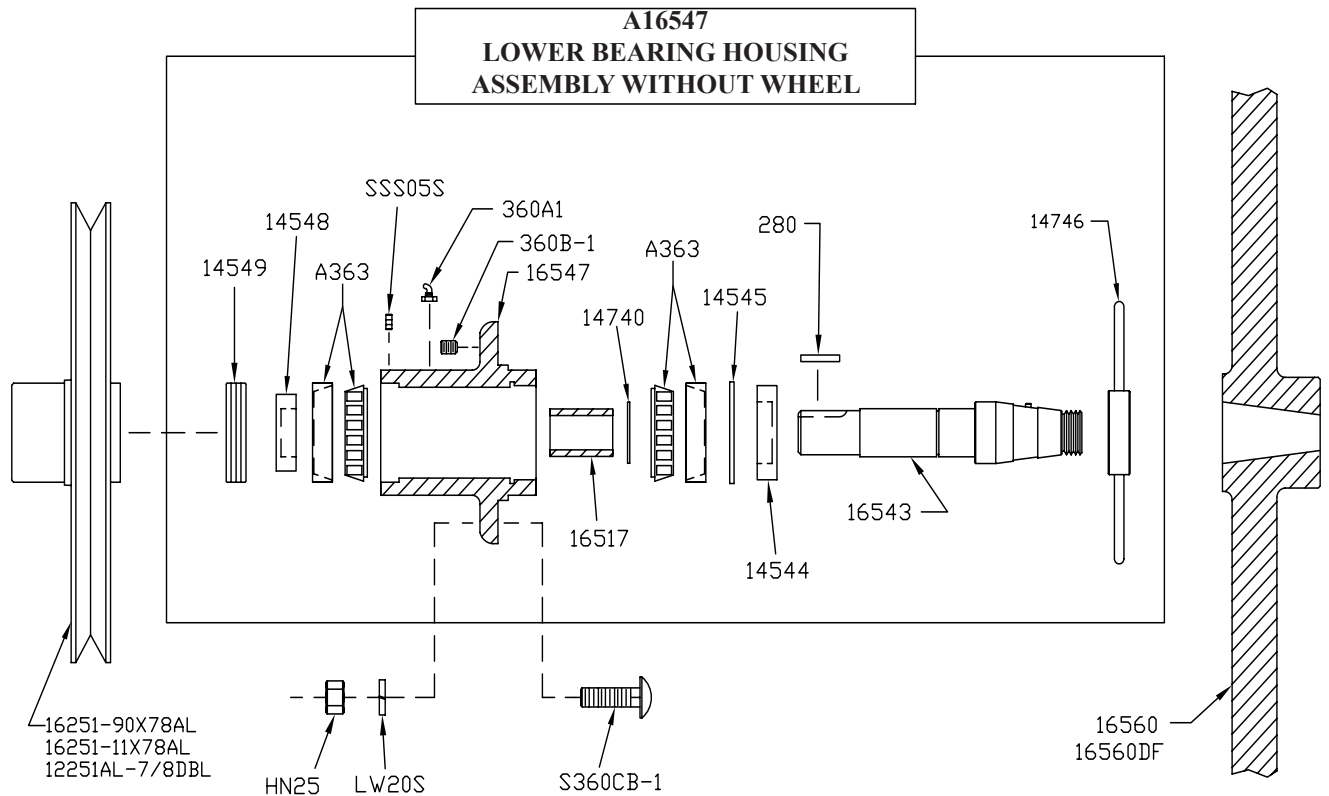
### **INSTALLATION**

There is an anti-rotation pin located on the lower shaft, there is an anti-rotation groove located on the back side of the lower wheel.

Align and engage the groove of the lower wheel and the anti-rotation pin as the wheel is being installed.

Install T-handle Lock onto Lower Shaft, Hand Tighten **SECURELY**



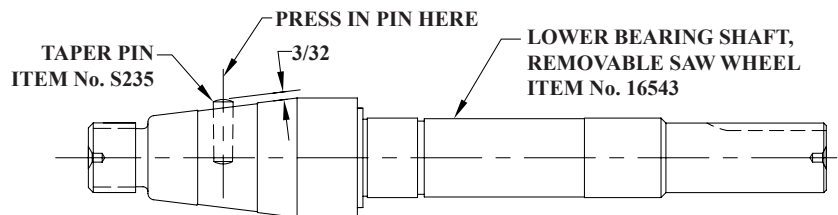


Item No.	Description	Item No.	Description
A16547	Lower bearing housing assembly, w/o wheel	14746	T-handle lock, removable lower wheel
A363	Lower bearing cup/cone assembly	16251-11X78AL	Pulley, 11.4 x 7/8 aluminum
HN25	Hex nut, 3/8-16, carbon-plated	16251-90X78AL	Pulley, 9 x 7/8 aluminum
LW20S	Lock washer, 3/8 heavy	16517	Inner race spacer
S360CB-1	Carriage bolt, 3/8-16 x 1 1/4	16543	Lower shaft, removable wheel
SSS05S	Set screw, 10-24 x 3/8	16547	Lower bearing housing
12251AL-7/8DBL	Pulley, 9 x 7/8 double-V	16560	Lower removable wheel, 16", 6 spoke
14544	Grease seal	16560DF	Lower removable wheel, 16", 6 spoke double flange
14545	Retaining ring, internal	280	Lower shaft motor key
14548	Grease seal	360A1	Grease fitting - angled
14549	Lower bearing housing cap	360B-1	Set screw, 1/2-13, SS
14740	Retaining ring - external		

### Item No. 16543 - Lower Shaft for Removable Wheel

The Model 3334 Lower Removable Wheel has been revised to include a keyway in the bore. Also an anti-rotation pin is now pressed into the lower shaft to prevent any inadvertent "spinning" of the wheel on the shaft.

**NOTE** - If the saw in which a new shaft is to be installed has a groove (keyway) in the bore of the lower wheel, press the taper pin (provided "loose") into the hole in the side of the shaft (see sketch).



If there is no groove (keyway) in the bore of the lower wheel, discard the taper pin and use the shaft without the pin.



## LOWER REMOVABLE WHEEL INSTALLATION AND REMOVAL INSTRUCTIONS

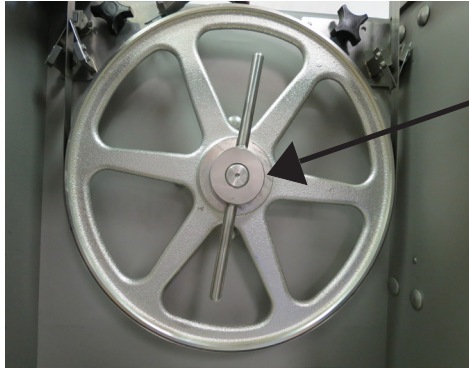
*ALWAYS Turn Off, Unplug Machine From Power Source and Perform Lockout/Tagout Procedure to the Machine **BEFORE** Cleaning or Servicing.*

Follow disassembly procedures in the Cleaning Section of the Operating and Service Manual.

Removal of the Lower Wheel will be the last procedure.

### REMOVAL

Loosen Item No. 14746, T-Handle Lock. **DO NOT REMOVE COMPLETELY FROM SHAFT.**



14746  
T-Handle  
Lock



T-Handle  
Loosened

Using thumbs for leverage, pull wheel toward you with an even-smooth motion. Wheel is mounted in slip fit fashion on a tapered shaft. When the wheel is loose, complete removing T-Handle lock and wheel.

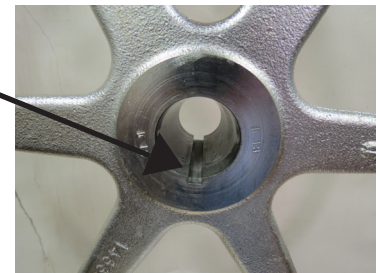


14746  
T-Handle  
Lock

### INSTALLATION



There is an alignment pin on the lower shaft. And a mating alignment groove in the hub of the lower wheel. Align the two as the wheel is being installed on the tapered shaft.



**NOTE:**  
**TO ENSURE PROPER SAW  
WHEEL ALIGNMENT,  
WHEEL MUST BE  
REINSTALLED ON SAME  
MACHINE IT WAS  
REMOVED.**

Replace the  
T-Handle Lock  
**HAND TIGHTEN  
ONLY**  
Reassemble the machine.

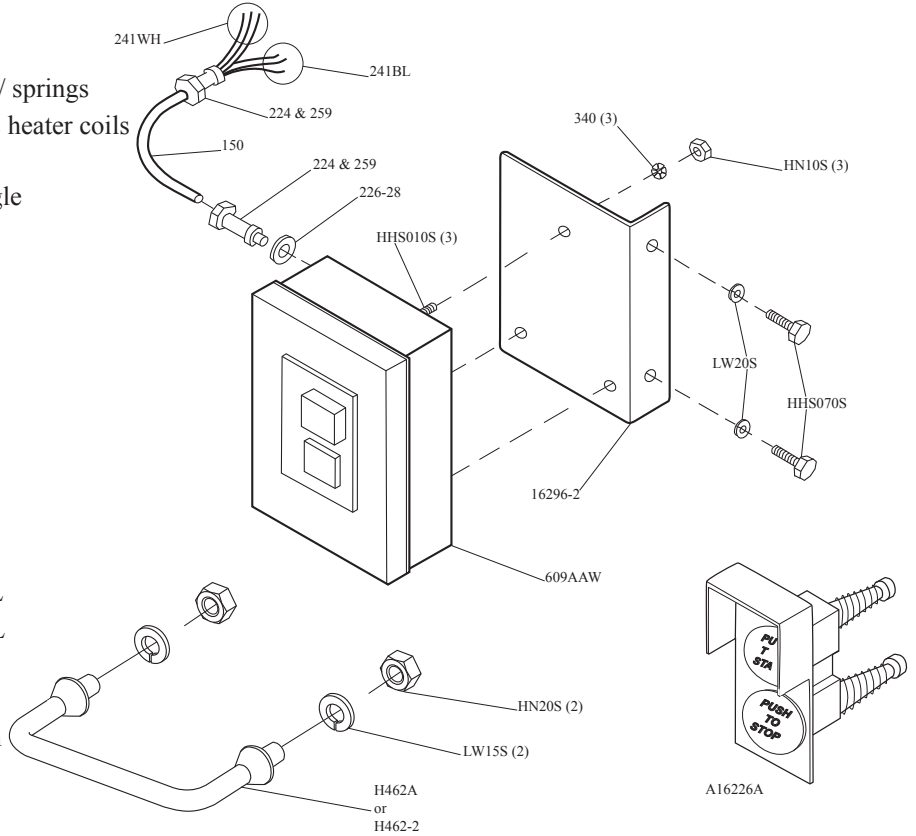


## **OPERATOR'S NOTES**

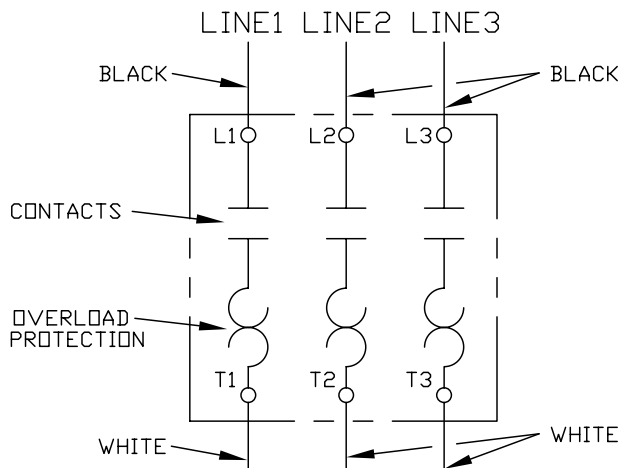


# A609AAW-16 SWITCH ASSEMBLY

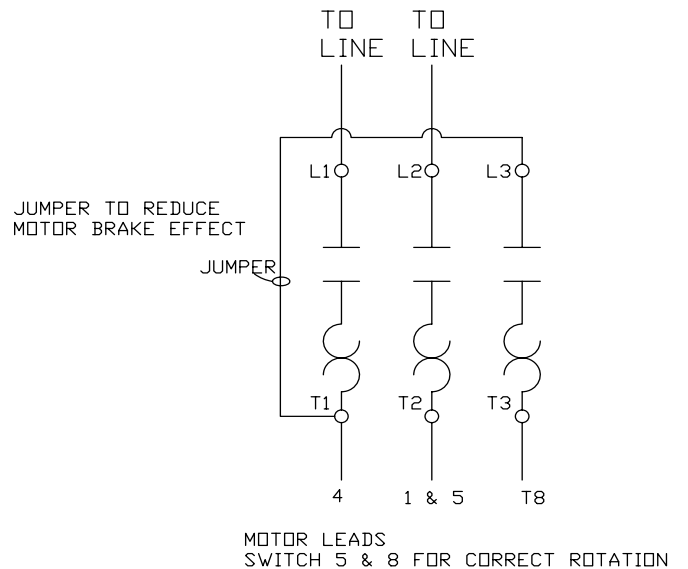
Item No.	Description
A16226A	Green/red switch button assy w/ springs
A609AAW-16	Switch assembly, 1 & 3 ph, less heater coils
H462-2	Guard for switch toggle
H462A	Guard assembly for switch toggle
HHS010S	Hex Head Screw, 10-32 x 3/8 SS
HHS070S	Hex Head Screw, 3/8-16 x 1 SS
HN10S	Hex Nut, 10-32 SS
HN20S	Hex Nut, 5/16-18 SS heavy
LW15S	Lock Washer, 5/16 SS regular
LW20S	Lock Washer, 3/8 SS
16296-2	Switch bracket, SS
150	Conduit, 1/2"
224	Conduit connector, 180°
226-28	Washer SS, 1 1/2 x 27/32
241BL	Wire, black, 12GA., CSA & UL
241WH	Wire, white, 12GA., CSA & UL
259	Anti-short bushing- 1/2"
340	Star lock washer
609AAW	Manual switch, size 0, 1 & 3 ph



## 609AAW 3 Phase



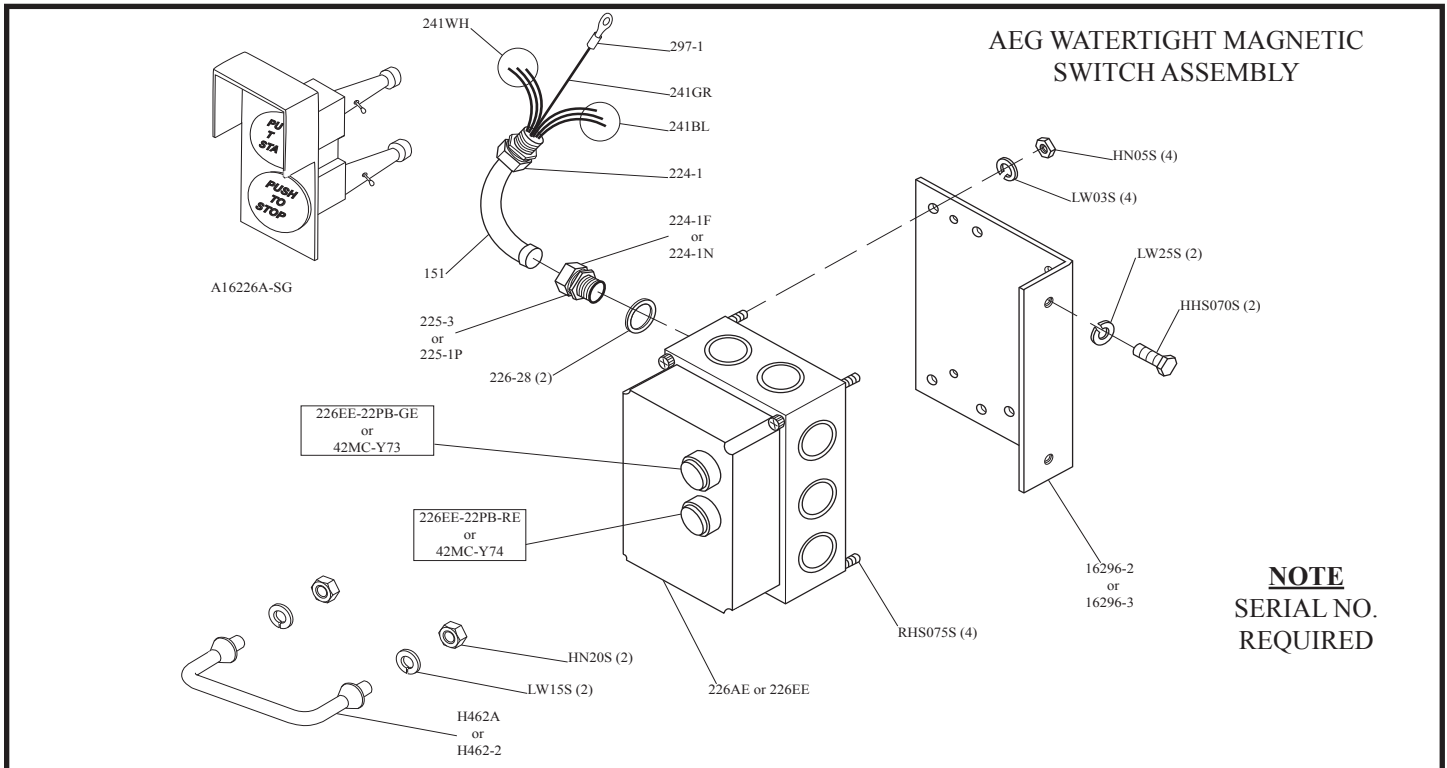
## Wire Diagram for Baldor Motor Spec. No. 35M388S508 230V/1 Phase/50Hz Used with 609AAW Starter, A-B



# WATERTIGHT MAGNETIC SWITCH ASSEMBLIES (AEG)

## INCLUDES MOUNTING BRACKET AND WIRES

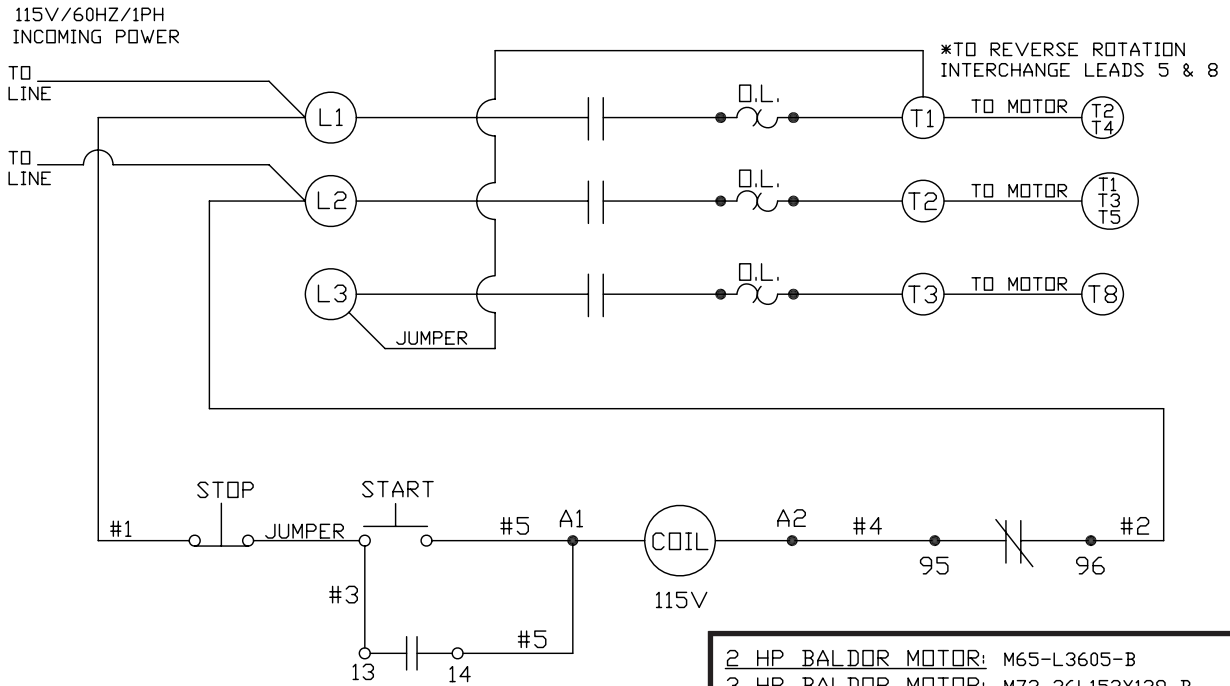
Item No.	Description	Item No.	Description
A22616EE-514	BAEG/MS-PB/05-C8 2HP 208-220-50/60-3	A22616EE-530	BAEG/MS-PB/05-F3.2 2HP 550/575-3
A22616EE-516	BAEG/MS-PB/05-E4.7 2HP 440/460-3	A22616EE-534	BAEG/MS-PB/05-E6.3 3HP 440/460-60-3
A22616EE-518	BAEG/MS-PB/05-D4.7 1.5-2HP 380/415-50-3	A22616EE-536	BAEG/MS-PB/05-D8 3HP 380-60-3
A22616EE-522	BAEG/MS-PB/05-C14 3HP 220-230-50/60-3	A22616EE-538	BAEG/MS-PB/05-F4.7 3HP 550-60-3
A22616EE-5221	BAEG/MS-PB/05-CS14 1.5HP 208/230-50/60-1	A22616EE-540	BAEG/MS-PB/C18 5HP 220-60-3
A22616EE-5241	BAEG/MS-PB/A26 1.5-2HP 104/115-60-1	A22616EE-544	BAEG/MS-PB/05-E8 5HP 440/460-60-3
A22616EE-5261	BAEG/MS-PB/CS16 2HP 230-60-1	A22616EE-546	BAEG/MS-PB/05-D14 5HP 380-415-50-3
		A22616EE-548	BAEG/MS-PB/05-F8 5HP 550/575-60-3



Item No.	Description	Item No.	Description
A16226A-SG	Green/red switch button assembly	226EE-OL180	Overload, B18K-O, 14.5-18A
H462-2	Guard for switch toggle	226EE-OL26ON	Overload, B18K-ON, 21-26A
H462A	Guard assembly for switch toggle	226EE-506	BAEG/MS-PBF/05-C6.3 1HP 220-50/60-3
HHS070S	Hex head screw, 3/8 -16 x 1 SS	226EE-514	BAEG/MS-PB/05-C8 2HP 220-50/60-3
HN05S	Hex nut, 8-32 SS	226EE-516	BAEG/MS-PB/05-E4.7 2HP 440-60-3
HN20S	Hex nut, 5/16-18 SS	226EE-516F	BAEG/MS-PBF/05-E4.7 1-1/2-2HP 440-60-3
LW03S	Lock washer, #8 SS	226EE-518	BAEG/MS-PB/05-D4.7 2HP 380-50-3
LW15S	Lock washer, 3/16 SS	226EE-5201	BAEG/MS-PBF/A26 1-1/2 & 2HP 60-1
LW25S	Lock washer, 3/8 heavy SS	226EE-522	BAEG/MS-PB/05-C14 3HP 230-50/60-3
RHS075S	Round head screw, 8-32 x 3/4 SS	226EE-5241	BAEG/MS-PB/A26 2HP 120-60-1
151	Watertight conduit	226EE-5261	BAEG/MS-PB/CS16 2HP 230-60-1
16296-3	Switch bracket, SS	226EE-530	BAEG/MS-PB/05-F3.2 2HP 550-60-3
224-1	Conduit connector, WT, 180°	226EE-534	BAEG/MS-PB/05-E6.3 3HP 440-60-3
224-1F	Conduit ferrule for watertight connector	226EE-536	BAEG/MS-PB/05-D8 3HP 380-50-3
224-1N	Conduit nut for watertight connector	226EE-538	BAEG/PC-PB/05-F4.7 3HP 550-60-3
226EE-ENCL-PB22	Enclosure w/ pushbutton, 22mm holes	226EE-540	BAEG/MS-PB/C18 5HP 220-60-3
226EE-ENCL-PB30	Enclosure w/ pushbutton, 30mm holes	226EE-544	BAEG/MS-PB/05-E8 5HP 440-60-3
226EE-AO	Contact, LS05.10-AO, 120V	226EE-546	BAEG/MS-PB/D14 5HP 380-415-50-3
226EE-CO	Contact, LS05.10-CO, 208-230V	226EE-548	BAEG/MS-PB/05-F8 5HP 550-60-3
226EE-DO	Contact, LS05.10-DO, 380-415V	226-28	Washer, 1 1/2 x 27/32 SS
226EE-EO	Contact, LS05.10-EO 440-480V	241BL	Wire, black 12 GA., CSA & UL
226EE-FO	Contact, LS05.10-FO 550V	241GR	Wire, green 12 GA., CSA & UL
226EE-OL01.9G	Overload, B18K-G, 1.3-1.9A	241WH	Wire, white 12 GA., CSA & UL
226EE-OL4I	Overload, B18K-I, 2.5-4A	297-1	Wire terminal eyelet for 12 GA. wire
H281EE-51	Overload, B18K-K, 4-6.3A	42MC-Y73	Green start pushbutton assembly, 30mm
226EE-OL08.5L	Overload, B18K-L, 5.5-8.5A	42MC-Y74	Red stop pushbutton assembly, 30mm
226EE-OL12M	Overload, B18K-M, 8-12A	226EE-22PB-GE	Green start pushbutton assembly, 22mm
		226EE-22PB-RE	Red stop pushbutton assembly, 22mm

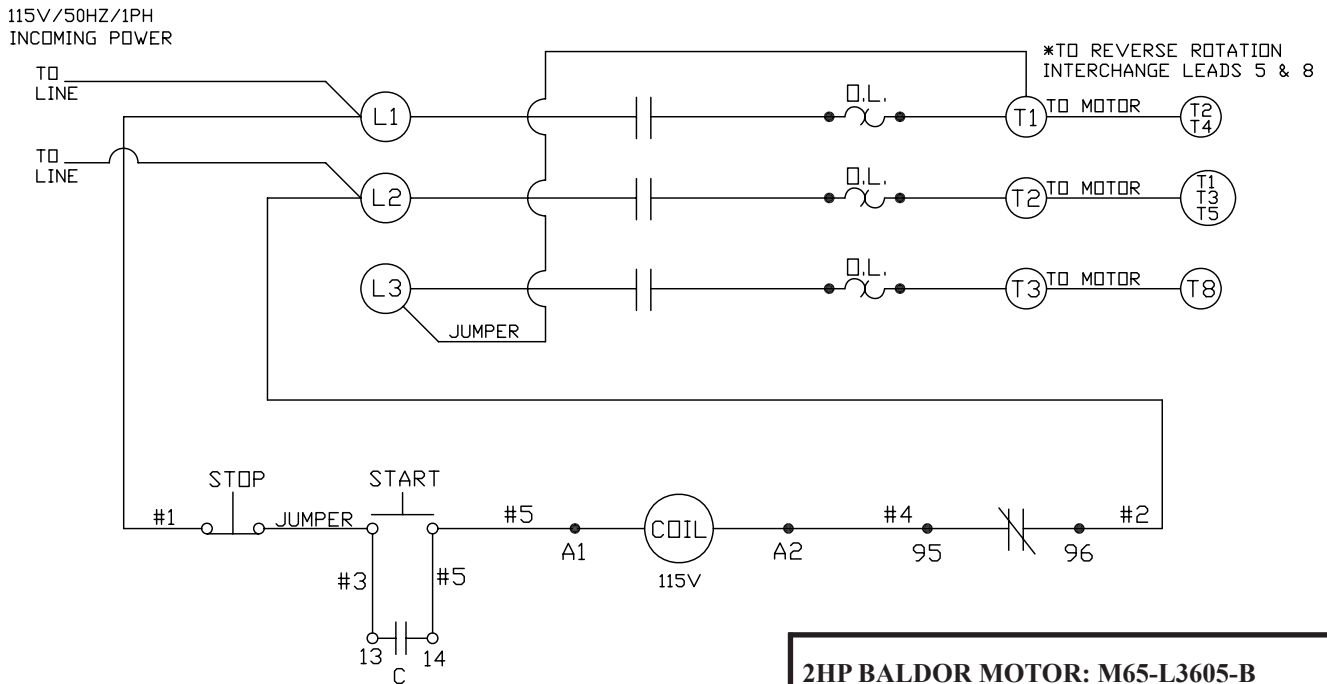
-115 VOLT WITH 6 LEADS-

SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH WITH JUMPER  
TO ELIMINATE BREAKING EFFECT OF MOTOR AFTER STOP IS ENGAGED.  
2HP & 3HP/60HZ/1PH BALDOR MOTOR WITH 6 MOTOR LEADS  
WIRED FOR 115 VOLTS



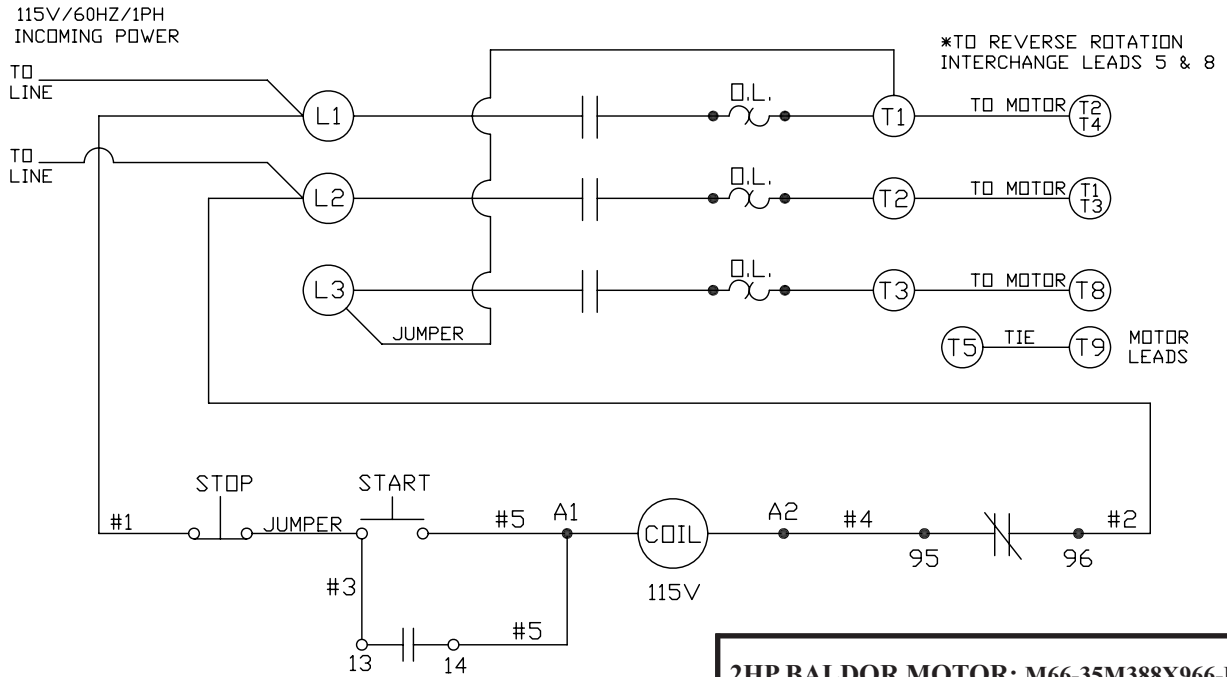
-115 VOLT WITH 6 LEADS-

SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH WITH JUMPER  
TO ELIMINATE BREAKING EFFECT OF MOTOR AFTER STOP IS ENGAGED.  
2HP/50HZ/1PH BALDOR MOTOR WITH 6 MOTOR LEADS, WIRED 115 VOLTS



-115 VOLT WITH 7 LEADS-

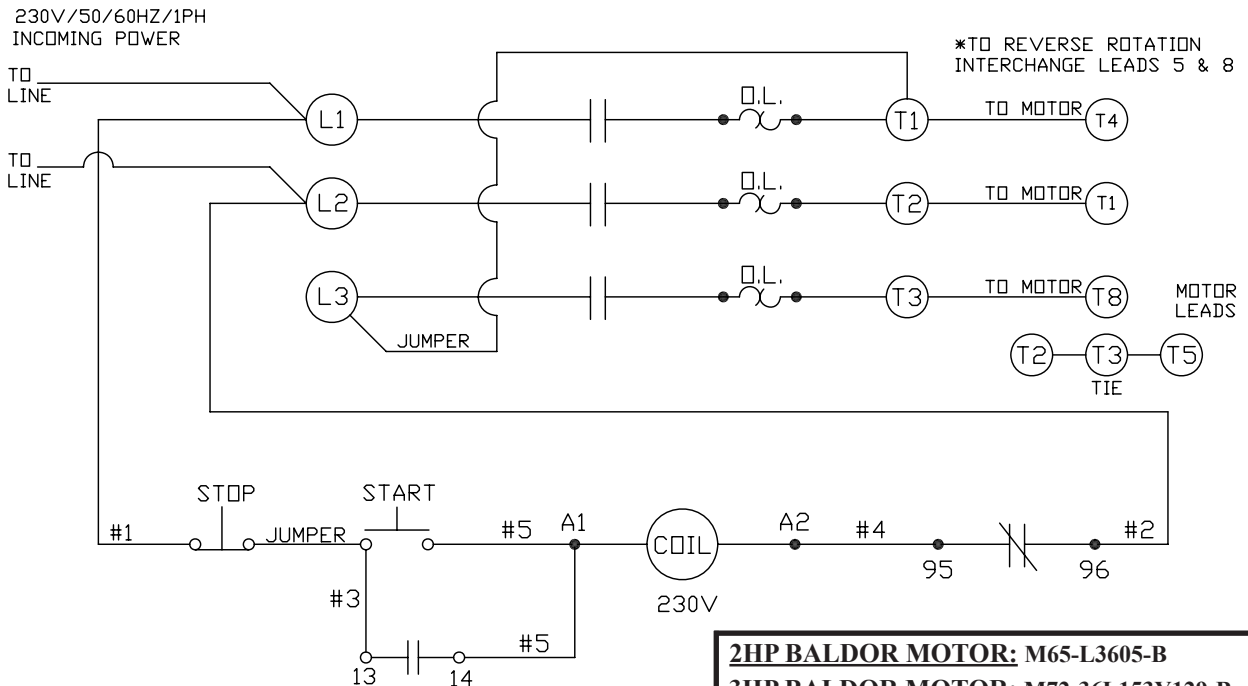
SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH WITH JUMPER TO ELIMINATE BREAKING EFFECT OF MOTOR AFTER STOP IS ENGAGED. 2HP/60HZ/1PH BALDOR MOTOR WITH 7 MOTOR LEADS, WIRED FOR 115 VOLTS



**2HP BALDOR MOTOR: M66-35M388X966-B**

-230 VOLT WITH 6 LEADS-

SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH WITH JUMPER TO ELIMINATE BREAKING EFFECT OF MOTOR AFTER STOP IS ENGAGED. 2HP & 3HP/60HZ/1PH BALDOR MOTOR WITH 6 MOTOR LEADS WIRED FOR 230 VOLTS

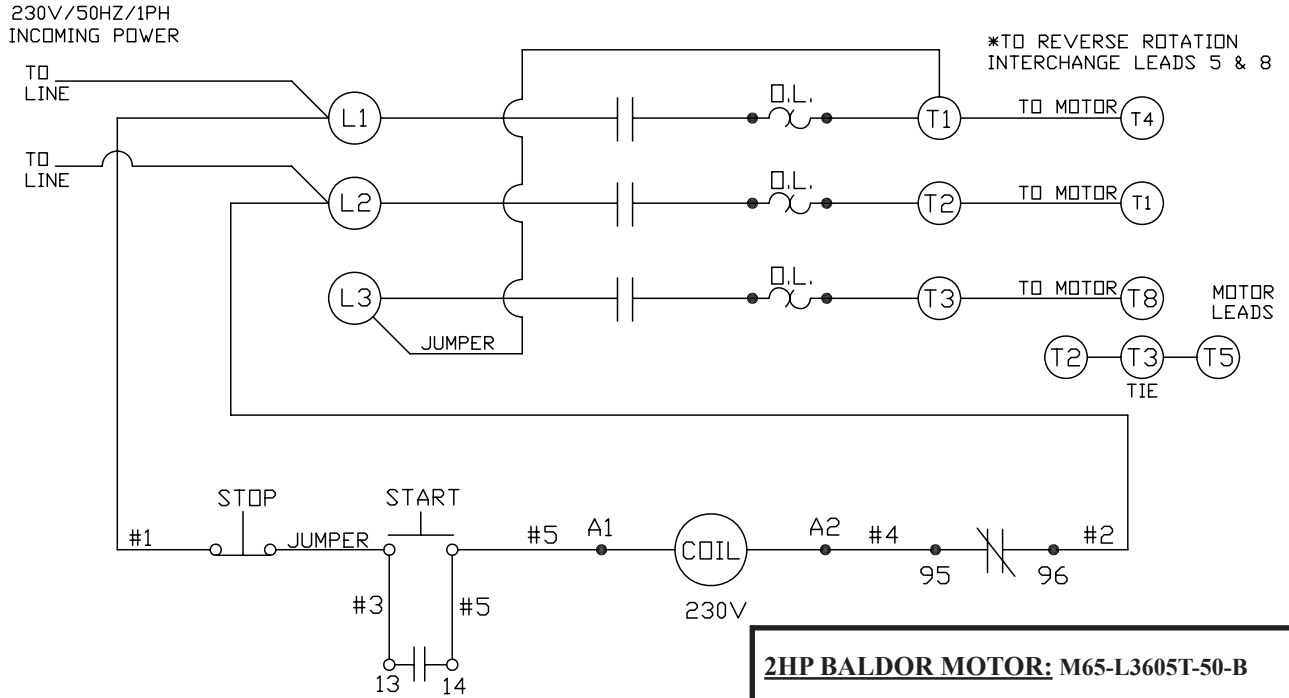


**2HP BALDOR MOTOR: M65-L3605-B**

**3HP BALDOR MOTOR: M72-36L153Y129-B**

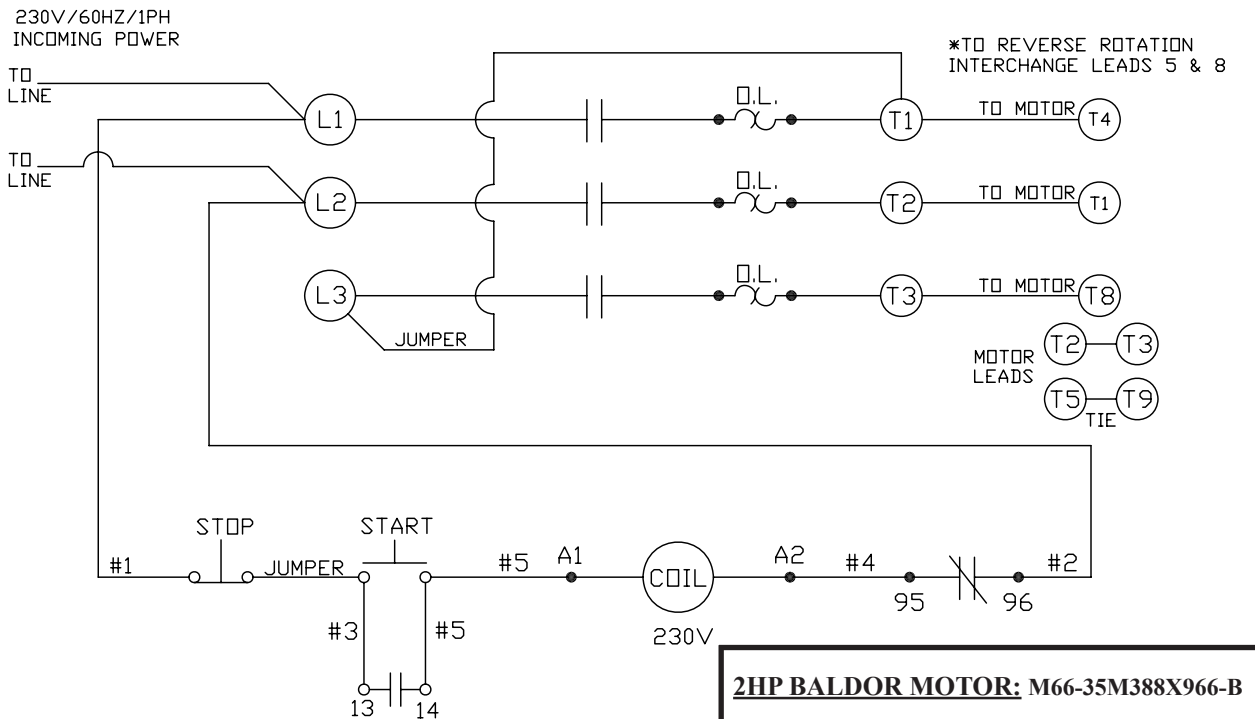
-230 VOLT WITH 6 LEADS-

SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH WITH JUMPER  
 TO ELIMINATE BREAKING EFFECT OF MOTOR AFTER STOP IS ENGAGED.  
 2HP/50HZ/1PH BALDOR MOTOR WITH 6 MOTOR LEADS, WIRED FOR 230 VOLTS



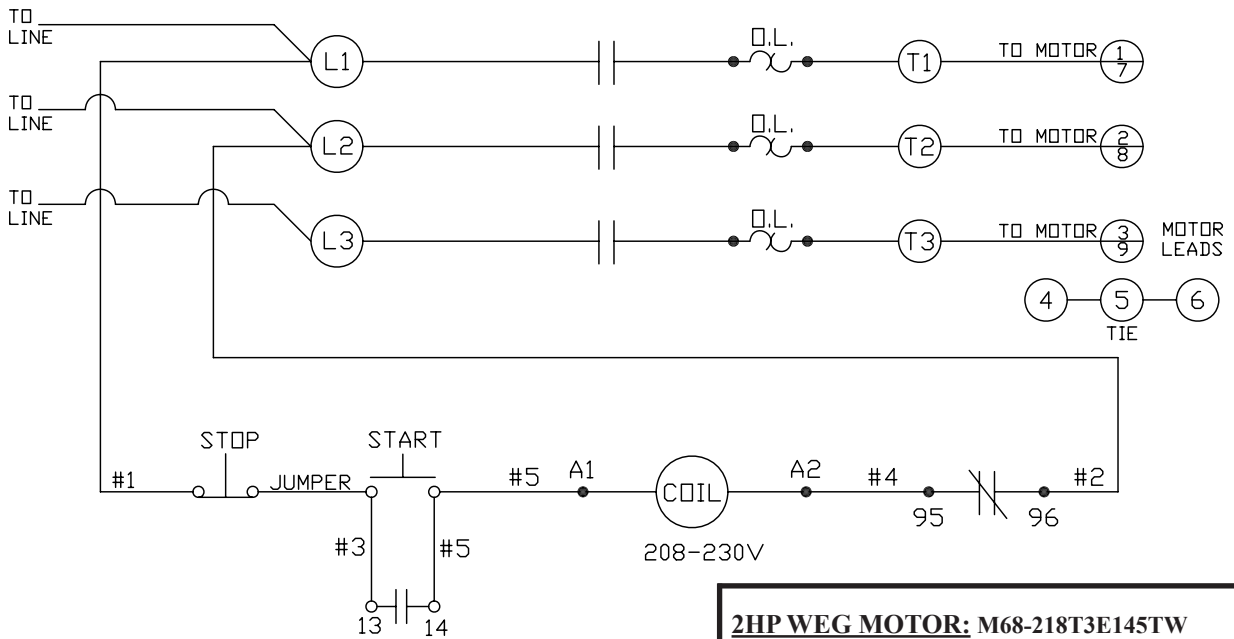
-230 VOLT WITH 7 LEADS-

SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH WITH JUMPER  
 TO ELIMINATE BREAKING EFFECT OF MOTOR AFTER STOP IS ENGAGED.  
 2HP/60HZ/1PH BALDOR MOTOR WITH 7 MOTOR LEADS, WIRED FOR 230 VOLTS



-208-230 VOLT WITH 9 LEADS-  
 SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH  
 2HP/50/60HZ/3PH WEG MOTOR WITH 9 MOTOR LEADS, WIRED FOR 208-230 VOLTS

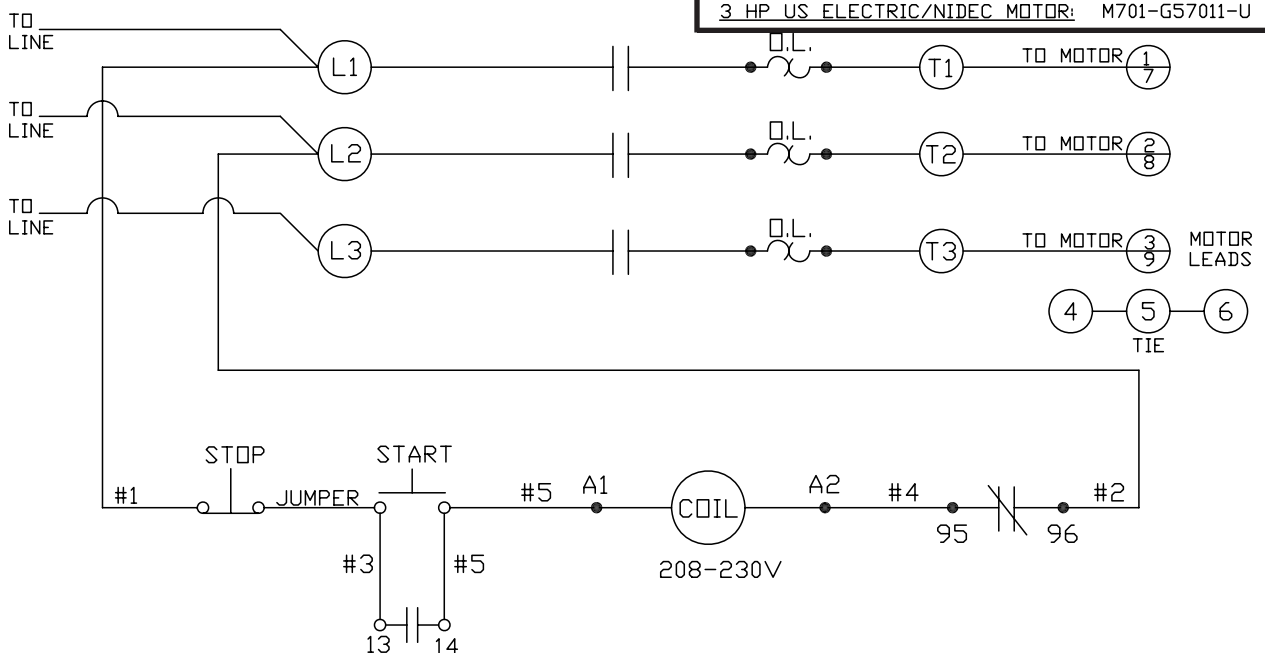
208-230V/50/60HZ/3PH  
 INCOMING POWER



**2HP WEG MOTOR: M68-218T3E145TW**

-208/220/230 VOLT 3 PHASE WITH 9 LEADS-  
 SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH  
 2HP/60HZ/3PH BALDOR MOTOR WITH 9 MOTOR LEADS (OR)  
 2HP & 3HP/50/60HZ/3PH US ELECTRIC/NIDEC MOTOR CORP WITH 9 MOTOR LEADS,  
 WIRED FOR 208-230 VOLTS

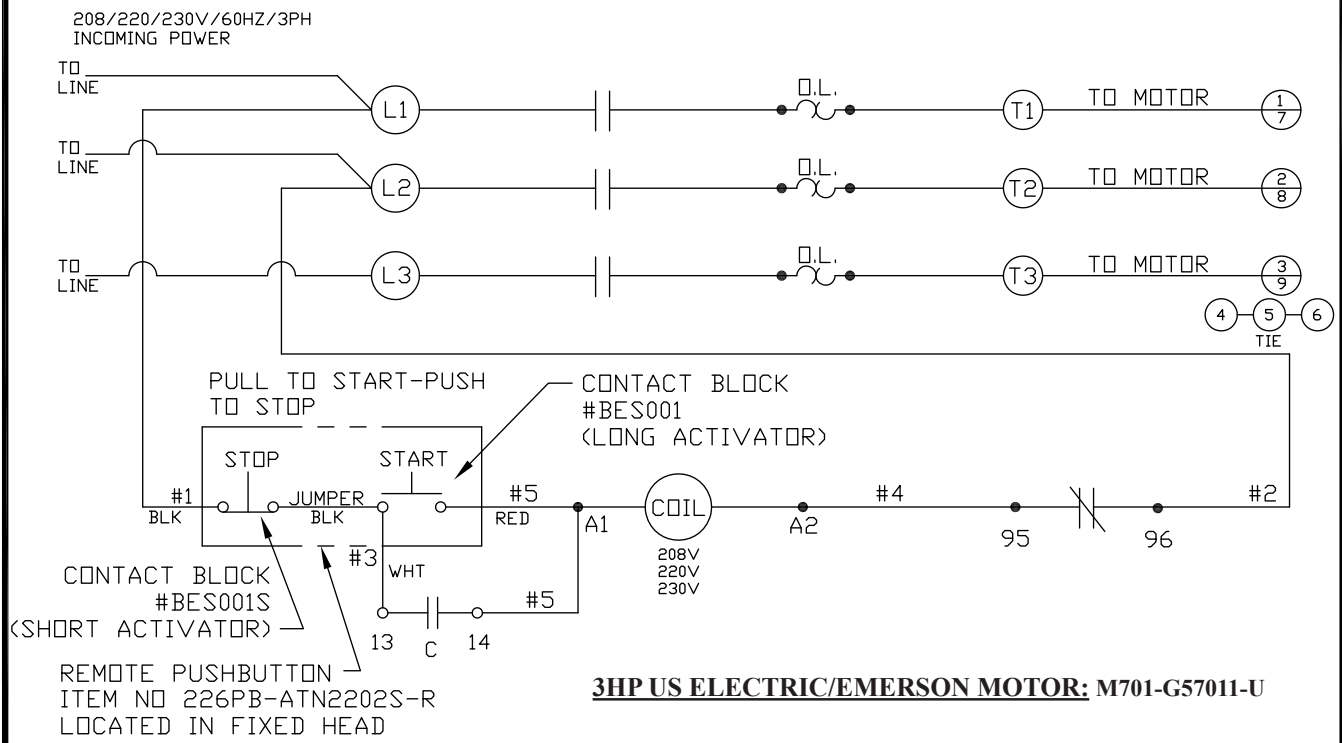
208-230V/50/60HZ/3PH  
 INCOMING POWER



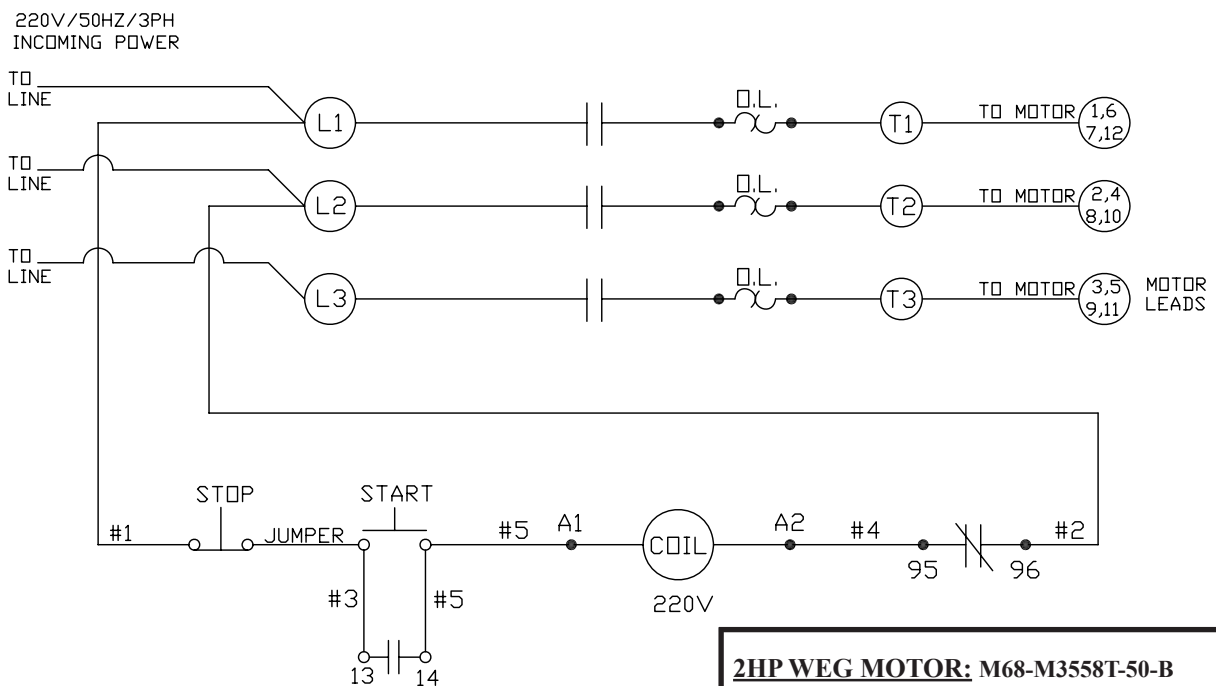
**2 HP BALDOR MOTOR: M68-M3558T-B**  
**2 HP US ELECTRIC/NIDEC MOTOR: M55-G54313-U**  
**3 HP US ELECTRIC/NIDEC MOTOR: M701-G57011-U**



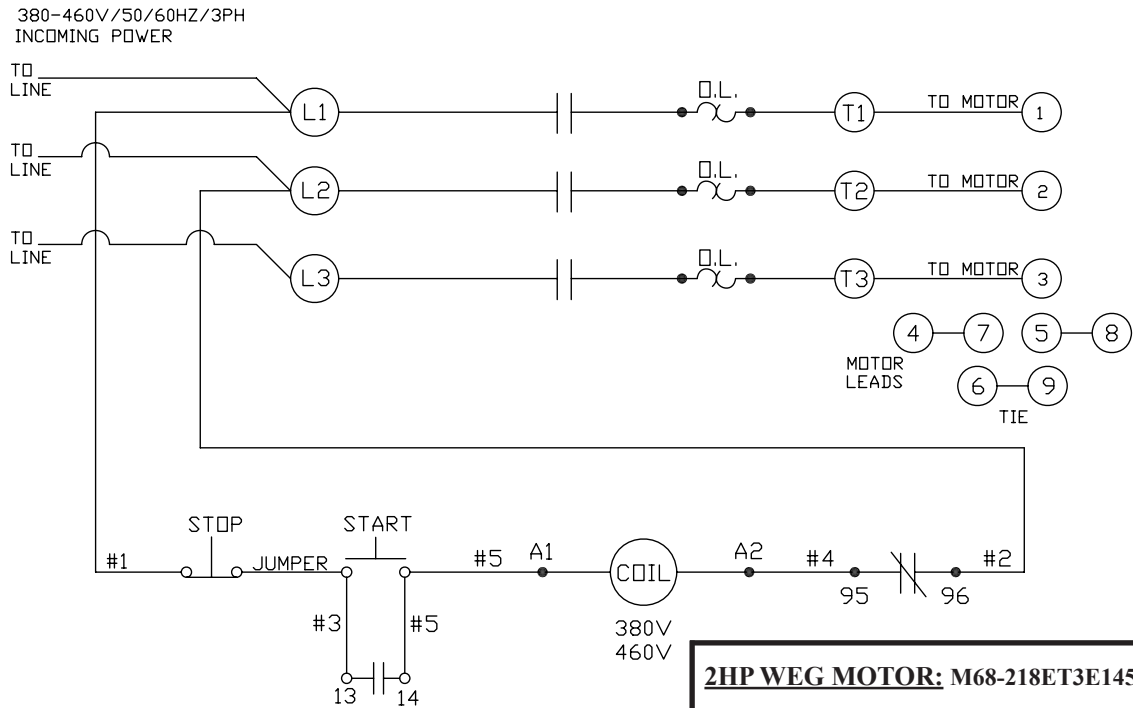
-208/220/230 VOLT 3 PHASE WITH 9 LEADS-  
 SCHEMATIC USING 3-POLE AEG W.T. SWITCH  
 3HP/60HZ/3PH US ELECTRIC/EMERSON MOTOR WITH 9 MOTOR LEADS  
 WIRED FOR 208/220/230 VOLTS



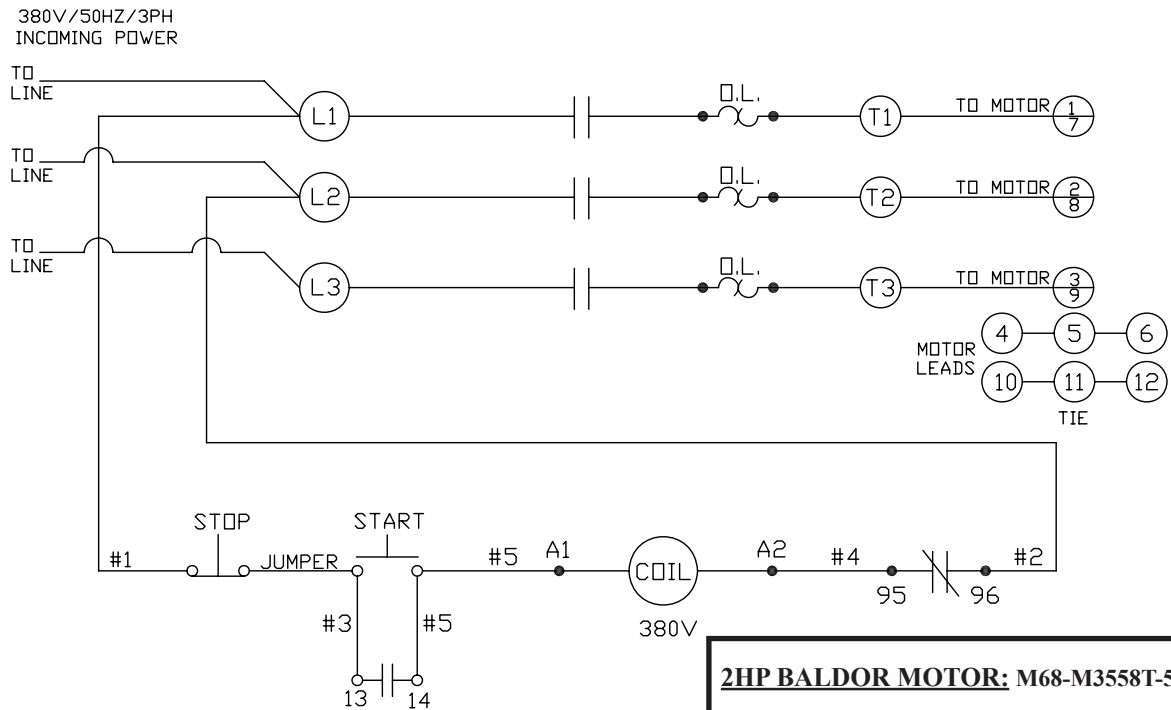
-220 VOLT WITH 12 LEADS-  
 SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH  
 2HP/50HZ/3PH BALDOR MOTOR WITH 12 MOTOR LEADS, WIRED FOR 220 VOLTS



-380-460 VOLT WITH 9 LEADS-  
 SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH  
 2HP/50/60HZ/3PH WEG MOTOR WITH 9 MOTOR LEADS, WIRED FOR 380-460 VOLTS

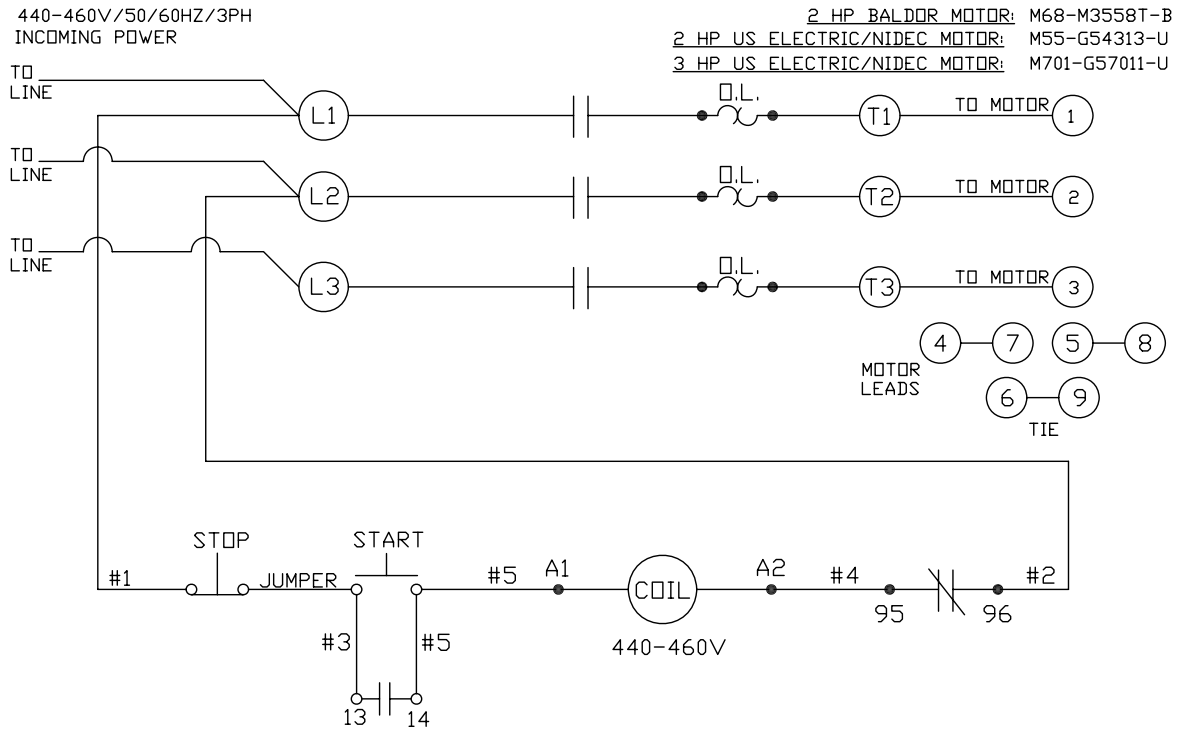


-380 VOLT WITH 12 LEADS-  
 SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH  
 2HP/50HZ/3PH BALDOR MOTOR WITH 12 MOTOR LEADS, WIRED FOR 380 VOLTS



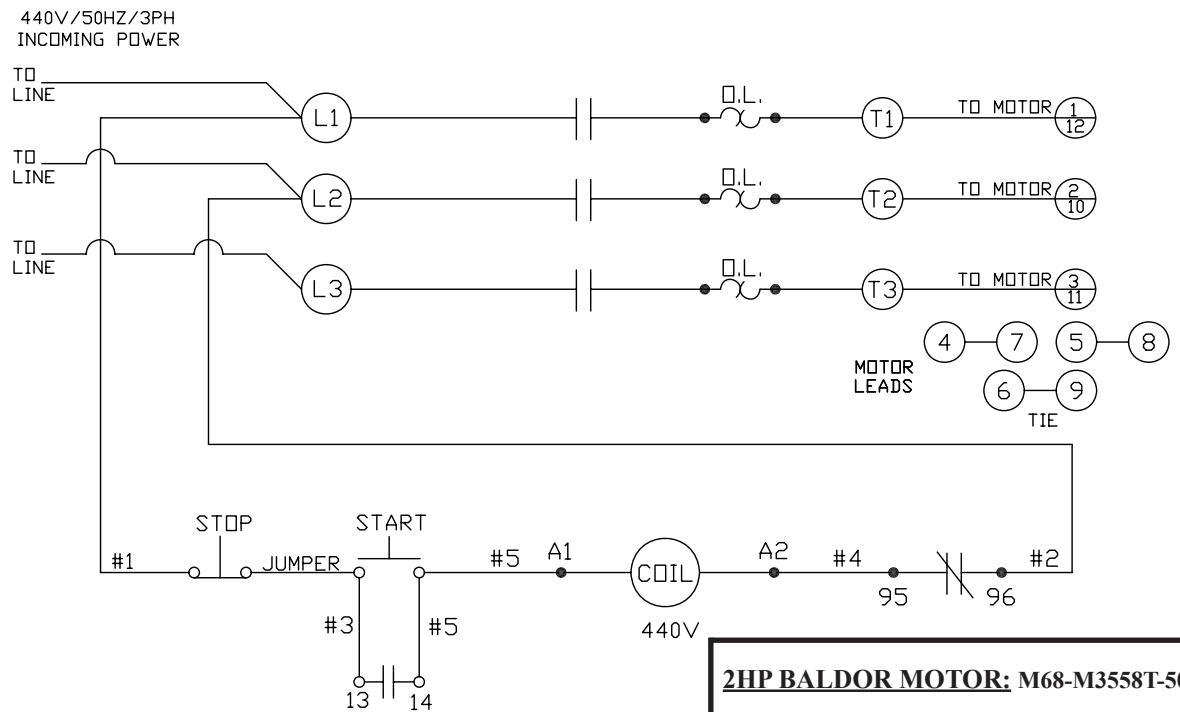
-440-460 VOLT 3 PHASE WITH 9 LEADS-

SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH  
 2HP/60HZ/3PH BALDOR MOTOR WITH 9 MOTOR LEADS (OR)  
 2HP & 3HP/50/60HZ/3PH US ELECTRIC/NIDEC MOTOR CORP WITH 9 MOTOR LEADS,  
 WIRED FOR 440-460 VOLTS



-440 VOLT WITH 12 LEADS-

SCHEMATIC USING 3-POLE AEG WATERTIGHT SWITCH  
 2HP/50HZ/3PH BALDOR MOTOR WITH 12 MOTOR LEADS, WIRED FOR 440 VOLTS



## CLEANING



### SHARP MOVING BAND TYPE SAW BLADE TO AVOID SERIOUS PERSONAL INJURY

**ALWAYS** Turn Off, Unplug From Power Source and Perform Lockout/Tagout Procedure to This Machine **BEFORE** Cleaning or Servicing.

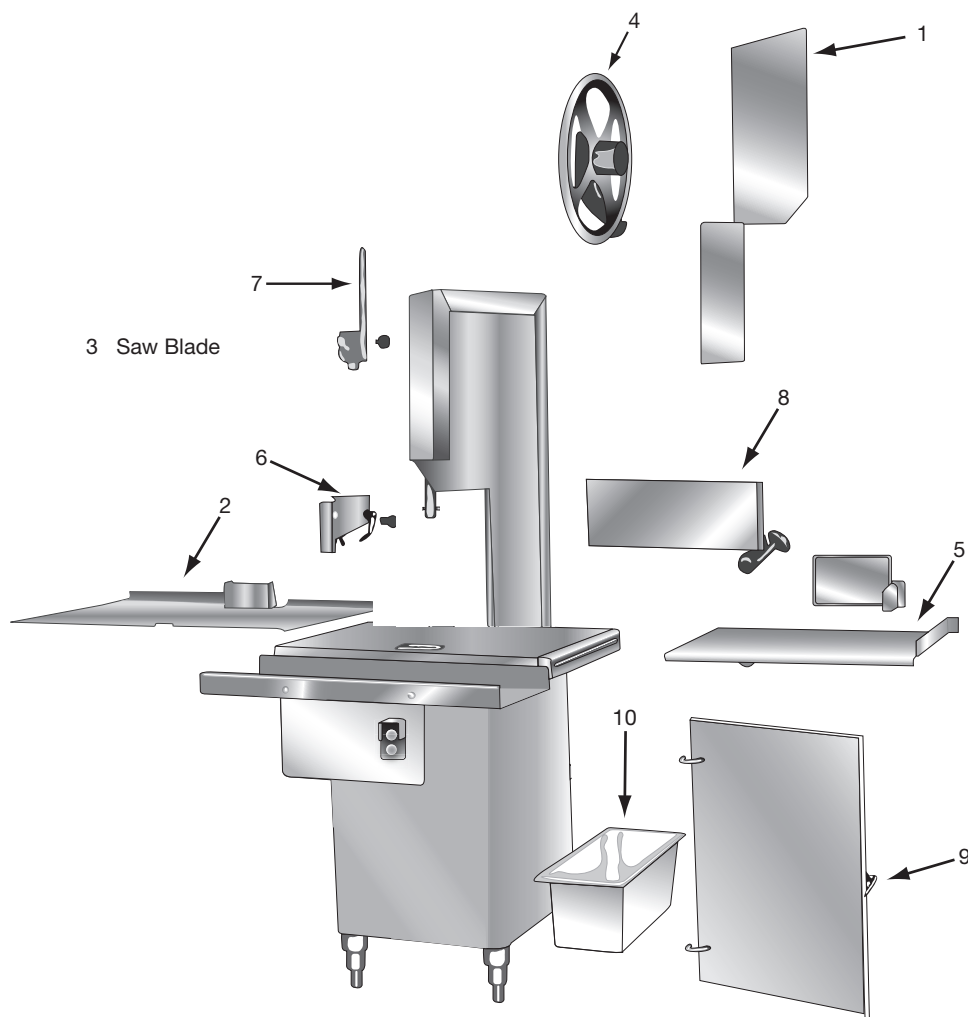
**ONLY** Use Recommended Cleaning Equipment, Materials and Procedures.

**NEVER** Spray Water or Other Liquid Substances Directly at Motor, Power Switch or any Other Electrical Components.

**ALWAYS** Thoroughly Clean Equipment at Least Daily.

#### CLEANING THE BIRO POWER MEAT SAW:

Disconnect electrical power to the machine before cleaning. Parts to be removed have been made accessible and can be removed without tools. Notice in the drawing below that all parts are numbered. Each part should be removed for cleaning in the numbered sequence shown. To ensure cleaner cuts, keep the parts on the cleaning system in good condition. Parts on the cleaning system which should be checked weekly, and changed as required are as follows: Wheel Cleaners (Part No. 179), Saw Cleaners (Part No. 131), Saw Guide in Stationary Bar (Part No. S119A), Upper Saw Guide (Part No. S602B), Lower Blade Back-Up Guide (Part No. 605), and Nylon Filler (Part No. 177).



# MODEL 3334FH & 3334-4003FH

## PART NUMBERS AND DESCRIPTIONS

MODEL & SERIAL NO. REQUIRED WHEN ORDERING PARTS

Item No.	Description	Item No.	Description
AN15S	Acorn nut, 1/4-20, SS	S16272	Meat gauge gear rack, SS
AN20S	Acorn nut, 3/8-16, SS	S16273	Meat gauge bracket, SS use(AS16273)
AN21S	Acorn nut, high crown, 3/8-16, SS	S16275	Meat gauge plate, SS
CB98S	Carriage bolt, 3/8-16 x 2 3/4, SS	S16290	Cleaning unit, SS
FW06S	Flat washer, 1/4, SS	S16335XE	Upper wheel hinge plate, SS
FW07S	Flat washer, 3/8, SS	S163F	Platter spacer weld button, SS
FW08S	Flat washer, 3/8 ID x 1" OD, SS	S16Z	Lower guide bracket saw cleaner holder, SS
FW10S	Flat washer, 5/16, SS	S181155AEZ	Meat carriage angle, EZ flow, use S18155EZ-1
FW15S	Flat washer, 1/2, SS	S18155EZ-1	Carriage top w/weld studs
HHS003S	Hex head screw, 8-32 x 1/4, SS	S200B1	Stop stud, guide bar & carriage stop
HHS005S	Hex head screw, 8-32 x 1/2, SS	S229	Wheel cleaner arm spring, SS
HHS010S	Hex head screw, 10-32 x 3/8, SS	S235	Taper pin, 4 x 3/4, SS
HHS015S	Hex head screw, 10-32 x 7/8, SS	S239-B40	Base foot, welded, SS
HHS020S	Hex head screw, 1/4-20 x 3/8, SS	S239-B41	Adjustable leg bolt, SS
HHS025S	Hex head screw, 1/4-20 x 1/2, SS	S242R	Base door lock, right
HHS035S	Hex head screw, 1/4-20 x 3/8, SS	S244	Wheel cleaner arm stud
HHS040S	Hex head screw, 1/4-20 x 3/4, SS	S249	Base door lock handle
HHS048S	Hex head screw, 1/4-20 x 1 1/4, SS	S252X	Shaft lock nut, SS
HHS0481S	Hex head screw, 1/4-20 x 1 1/2, SS	S253	Upper wheel aligning screw, SS
HHS049NL	Hex head screw, 5/16-18 x 1/2, Nylon	S262	Meat gauge release handle, SS
HHS050S	Hex head screw, 5/16-18 x 3/8, SS	S264-1	Meat gauge release hand wheel
HHS055S	Hex head screw, 5/16-18 x 3/4, SS	S265	Meat gauge release spring, SS
HHS060S	Hex head screw, 5/16-18 x 1, SS	S268	Stationary bar headless screw, SS
HHS067S	Hex head screw, 3/8-16 x 3/4, SS	S270	Meat gauge release pin w/ hole, SS
HHS070S	Hex head screw, 3/8-16 x 1, SS	S295	Wheel cleaner arm, SS
HHS075S	Hex head screw, 3/8-16 x 1 1/4, SS	S325	Wheel cleaner arm washer, SS
HHS083S	Hex head cap screw, 3/8-16 x 1 3/4, SS	S360CB-1	Carriage bolt 3/8-16 x 1 1/4, SS
HN05S	Hex nut, 8-32, SS	S415D	Stainless stationary bar
HN10S	Hex nut, 10-32, SS	S416	Platter locator weld pin, SS
HN15S	Hex nut, 1/4-20, SS	S71-3	Upper wheel hinge bracket, fixed head
HN20S	Hex nut, 5/16-18, SS	112-212	Waved washer, 21/64 I.D. 5/8 O.D.
HN25	Hex nut, 3/8-16, plated	116-22	Saw guide bar, 22 inch
HN25S	Hex nut, 3/8-16, SS	116-22-COS	Saw guide bar, 22 inch, special
HN30S	Hex nut, 3/8-16, light jam, SS	119FSC	Saw guide, fish
HN35S	Hex nut, 3/8-16, heavy jam, SS	12251AL	Upper V-belt pulley 9 x 1, aluminum
HNNL15S	Hex nut, 1/4-20, SS, heavy nylok	12251AL-DBL	Upper pulley, double-V, 9 x 1, aluminum
HNNL25S	Hex nut, 3/8-16, SS, nylok	12251AL-7/8DBL	Upper pulley, double-V, 9 x 7/8, aluminum
LH663	Left hand saw guard	131	Saw cleaner
LW05S	Lock washer, #10, SS	14544	Grease seal, 1 1/2" I.D.
LW10S	Lock washer, 1/4, SS	14545	Retaining ring, internal
LW15S	Lock washer, 5/16, SS	14548	Grease seal
LW20S	Lock washer, 3/8, regular, SS	14549	Lower bearing housing cap
M55-G54313-U	Motor, 2HP 208-220/440-50/60-3, Open	14554	Compression spring
M65-L3605-B	Motor, 2HP 115/230-60-1, TE	14668	Motor pulley, double-V, 6 x 1 1/8
M68-M3558T-B	Motor, 2HP 208-230/440-60-3, TE	14669	Motor pulley, double-V, 5 x 1 1/8
M701-G57011-U	Motor, 3HP 220/440-50/60-3 TE	14730	Belt, double-V, 44" 2/7M1120
M66-35M388X966-B	Motor, 2HP 115/230-60-1 Open	14740	Retaining ring, external 25mm
M72-131533-L	Motor, 3HP 115/208-230-60-1 TEFC	14746	T-handle lock, lower removable wheel
RHS09S	Round head screw, 10-32 x 3/8, SS	14779-1	Blade tension cap gauge
RHS075S	Round head screw, 8-32 x 3/4, SS	14780	Blade tension adjustment housing
RHS10S	Round head screw, 10-32 x 3/4, SS	14781	Blade tension adjustment handle
RHS20S	Round head screw, 10-32 x 1 1/8, SS	14782	Blade tension screw, SS
RHS30S	Round head screw, 1/4-20 x 7/8, SS	14783	O-ring for blade tension screw
SSS05S	Set screw, cup, 10-24 x 3/8, SS	14785	Plastic washer
SSS15S	Set screw, 5/16-18 x 5/16 cup point, SS	14786	O-ring for gauge
SSS20	Set screw, 3/8-16 x 3/8, SS knurled cup point	14787	Tension screw top collar
S1007	Channel bracket, SS (3334-4003 only)	14789	O-ring, washer retention
S1120EZ	Channel, SS (3334-4003 only) EZ-Flow	151	Conduit, watertight, per inch
S116-22	Saw guide bar, 22" SS	16003-6	Lower wheel 16", 6 spoke
S119A	Saw guide, SS	16003DF-6	Lower double flange wheel 16", 6 spoke
S12214B	Side platter bracket	16003U-6	Upper wheel 16", 6 spoke
S130	Saw cleaner bracket, SS, rear	16003UDF-6	Upper double flange wheel 16", 6 spoke
S155-11	Meat carriage stop thumb screw, SS	16015-11	Adjustable motor base plate
S155EZ-3	Hex standoff - EZ Flow carriage	16015-2	Motor base plate stud nut
S16005E	Head, fixed, SS	16015-3	Motor base plate wing nut
S16006E	Head door, fixed head, SS	16015-4	Motor base plate lock washer
S16007	Channel bracket SS	16015-10	Motor base plate, 1 phase
S16015-1	Motor base plate adjusting stud, SS	16015-12	Motor base plate, special
S16120	Channel, SS	16112	Head door latch
S16132	Saw cleaner bracket holder rear	16133	Fastener knob, 4 point
S16217L	Left base panel, SS	16154-CE	Table extension
S16217LTP	Left tapered base panel, SS	16155	Meat carriage top & angle
S16217R-3	Right hinged base door, SS		

## PART NUMBERS AND DESCRIPTIONS (CONT.)

Item No.	Description	Item No.	Description
16155EZ	Meat carriage top & angle, EZ flow	230DL	Upper shaft seal, double lip
16155-13	Carriage stop angle, SS	231DL	Lower shaft seal, double lip
16155-2A	Meat carriage guide	234	Grease fitting, upper wheel
16155-2B	Meat carriage guide spacer, 1/64	237	Upper shaft castellated lock nut
16155-2C	Meat carriage guide spacer, 1/32	238	Upper shaft castellated lock nut washer
16159	Meat carriage bearing	247	Upper shaft
16163A	Platter hold down clip	248	Upper wheel hub cap
16163B	Platter neck guard, SS	256P	Safety pusher plate
16200	Carriage stop movable	264-1S	Hand wheel shim
16212	Platter latch	264G	Hand wheel groove pin
16220-1	Carriage stop fixed	267	Meat gauge release cotter pin
16226A-9	Switch button speed nut	271AL	Meat gauge worm gear
16232	Scrap bucket	272-7-1	Knob, 3-point, 5/16-18
16239-18	Base interlock plate, SS	272-8	Cap nut, 5/16-18, SS
16251AL	Upper V-belt pulley 11.4 x 1, aluminum	272-9	Hex bolt, 5/16-18 x 2, SS
16251-11X78AL	Upper V-belt pulley 11.4 x 7/8, aluminum	272-12	Brass ball, 7/32 dia.
16251-90X78AL	Upper V-belt pulley 9 x 7/8, aluminum	272-13	Hex bolt, 5/16-18 x 1 1/4
16278	Meat gauge arm	272-14	Castle nut, 5/16-18, SS
16296-2	Switch bracket, SS	277	Lower shaft key
16301-B	Model & S/N plate	280	Motor shaft key
16302HT	Saw blade, hard tooth, 124"	300	Lower shaft woodruff key
16303	Lower shaft nut	310	Waved washer
16313FH-305	Owner/operator manual	311	Rubber bumper, fixed stop
16360	Lower bearing housing	311-1	Rubber bumper, movable stop
16361	Lower shaft	324	Motor shim, 1/16"
16501	Rubber motor mount, 1 PH	324A	Motor shim, 1/8"
16502	Motor mount washer, 1 PH	331	Platter bracket bumper
16508	Motor mount star washer, 1PH	360A1	Angled grease fitting
16517	Inner race spacer	360B-1	Set screw, 1/2-13
16543	Lower shaft for removable wheel	362	Lower bearing housing adjusting cap
16547	Lower bearing housing	374	Shell Cassida grease EPS-2
16560	Lower removable wheel, 16"	375	Drive screw, nameplate
16662	Safety saw guard for SS head	376	Drive screw, #10 x 1/2
16662-COS	Safety saw guard for SS head, special	4-30AL	Motor pulley, single-V, 5 x 3/4 bore
17211-22	Finger lift shim .022	4-35AL	Motor pulley, single-V, 5 x 7/8 bore
17211-35	Finger lift shim .035	4-45AL	Motor pulley, single-V, 6 x 3/4 bore
175-1-S	Thumb guard nut, SS	4-49AL	Motor pulley, single-V, 6 x 7/8 bore
175-2-S	Thumb guard screw, 1/4-20 x 1/2	415D	Stationary bar
175S	Thumb guard, nylon	513	Upper wheel hub cap gasket
177	Nylon filler in stationary bar	530	Retaining ring
179	Wheel cleaner	55178	Plunger pin, blade tension handle
18120EZ-B3	Guide bar, EZ flow, T-shaped	601	Upper guide bracket
194	Saw guide bar lock pad, brass	602B	Upper blade back up guide
194KS-1	Saw guide bar lock knob	602FSC	Upper blade back up guide, narrow
196-2	Blade tension spring, fixed head	605	Lower blade back up guide
211	Finger lift bracket	653PC-E	Warning label, English
211A-291Q	Fastener knob, 3/8-16 x 4 point	653PC-FR	Warning label, French
221-52	V-belt, 52"	653PC-SP	Warning label, Spanish
226PB-ATN2202S-R	Push button, 3-position, momentary in & out	708	Danger Exposed Blade decal
228-2	Lower saw guide washer, 1/4 x 1 O.D.		

## COMPLETE ASSEMBLIES FOR MODELS 3334FH & 3334-4003FH

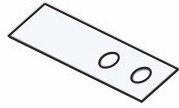
Item No.	Description	Item No.	Description
AS1120EZ	Channel assembly (3334-4003) EZ Flow	A16003UDF335-6E	Upper wheel assembly, double flange with hinge plate
AS116-22-COS	Saw guide bar assembly, 22", special	A16112	Head door latch assembly
AS116-22SS	Saw guide bar assembly, 22"	A16155	Meat carriage assembly
AS130	Steel cleaner assembly, SS	A16155EZ	Meat carriage assembly, EZ-flow
AS16006E	Head door assembly	A16163-1	Stationary platter assembly
AS16120	Channel assembly	A16200	Carriage stop assembly, movable
AS16120EZ	Channel assembly 37.5"- EZ Flow	A16220-1	Carriage stop assembly, fixed
AS16132	Steel cleaner assembly, rear, SS	A16278	Meat gauge plate assembly, less release
AS16217R	Hinged base door - old style	A16360	Lower bearing housing assembly, w/o wheel
AS16217R-3	Hinged base door - new style	A16361	Lower shaft bearing assembly
AS16273	Meat gauge bracket assembly	A16547	Lower bearing housing assembly, w/o wheel
AS16273-S275	Meat gauge assembly	A175S	Thumb guard assembly
AS16275	Meat gauge plate assembly	A181155EZ	Meat carriage assembly(3334-4003) EZ-flow
AS16290	Cleaning unit stamping assembly	A211-COS	Finger lift assembly, removable, special
AS16335XE	Upper hinge plate assembly, fixed head	A211-SS	Finger lift assembly, removable, SS
AS16Z	Guide bracket saw cleaner assembly	A227	Upper bearing cup/cone assembly
AS249R	Base door lock assembly, right, SS	A247	Upper shaft and bearing assembly
AS415D	Stationary bar assembly, SS	A247-1	Upper shaft and bearing assembly w/o spacer
A14787	Blade tension spring - screw assembly	A262	Meat gauge release assembly
A16003U-6	Upper wheel assembly w/o hinge plate	A295	Wheel cleaner assembly
A16003UDF-6	Upper wheel assembly, double flange, w/o hinge plate	A363	Lower bearing cup/cone assembly
A16003U335-6E	Upper wheel assembly w/ hinge plate	A602	Saw guide assembly, upper



**WEARABLE SAW PARTS THAT WILL FIT  
BIRO MODELS 3334FH & 3334-4003FH**



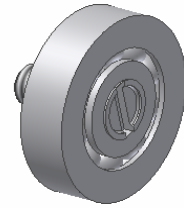
Item No. S130  
SAW CLEANER BRACKET



\*Item No. 131  
STEEL BLADE CLEANER



\*Item No. S265  
MEAT GAUGE SPRING



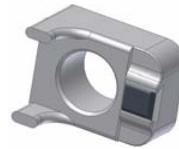
Item No. 16159  
CARRIAGE BEARING



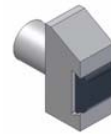
Item No. 601  
UPPER SAW GUIDE BRACKET



\*Item No. 602B  
UPPER SAW GUIDE  
W/ BEVELED CARBIDE



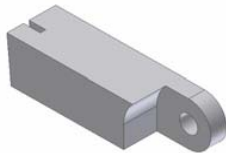
\*Item No. 605  
LOWER BLADE BACKUP  
W/ CARBIDE  
(before S/N 48681)



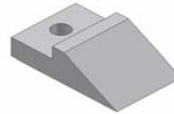
\*Item No. S608  
LOWER BLADE BACKUP  
W/ CARBIDE  
(after S/N 48682)



\*Item No. S119A  
LOWER SAW GUIDE



\*Item No. 177  
NYLON FILLER



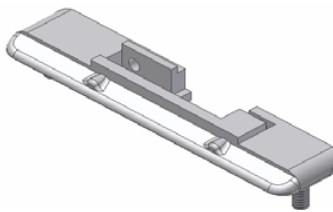
\*Item No. 179  
WHEEL CLEANER



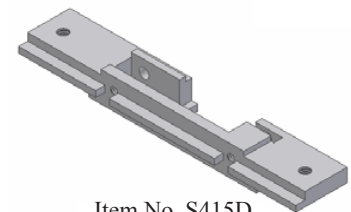
\*Item No. S244  
WHEEL CLEANER ARM STUD



Item No. S295  
WHEEL CLEANER ARM



Item No. 415D  
STATIONARY BAR



Item No. S415D  
STAINLESS STATIONARY BAR  
OPTIONAL



\*Item No. S268  
FILLER & GUIDE STUD



**NOT TO SCALE**



\*Item No. S229  
WHEEL CLEANER  
ARM SPRING

**USE PARTS REPAIR KIT PART NO. 16700**

**\*Included in parts repair kit.**

## OPERATOR'S NOTES



## LIMITED WARRANTY:

**WARRANTY:** The BIRO Manufacturing Company warrants that Models 3334FH & 3334-4003FH will be free from defects in material and workmanship under normal use and with recommended service. BIRO will replace defective parts, which are covered by this limited warranty, provided that the defective parts are authorized for return, shipping charges prepaid, to a designated factory for inspection and/or testing.

**DURATION OF WARRANTY:** The warranty period for all parts covered by this limited warranty is one (1) year from date of Inspection/Demonstration advised on the returned Warranty Registration Card, or eighteen (18) months from original factory ship date, whichever occurs first, except as noted.

**PARTS NOT COVERED BY WARRANTY:** The following are **not** covered by this limited warranty: wearable parts on the cleaning system such as wheel cleaners (Item No. 179), saw blade cleaners (Item No. 131) blade backup guides (Item No's. 602B, 605 and S119A), and the nylon filler (Item No. 177). This limited warranty does not apply to machines sold as used, rebuilt, modified, or altered from the original construction in which the machine was shipped from the factory. (WATER CONTAMINATED ELECTRICAL SYSTEMS ARE NOT COVERED UNDER THIS LIMITED WARRANTY.) BIRO is not responsible for electrical connection of equipment, adjustments to switch controls or any other electrical requirements, which must be performed only by a certified electrician. BIRO is not responsible for service charges or labor required to replace any part covered by this limited warranty or for any damages resulting from misuse, abuse, lack of proper or recommended service.

**EXCLUSION OF WARRANTIES AND LIMITATION OF REMEDIES:** BIRO gives no warranties other than those expressly stated in this limited warranty. THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR PROCESSING FOOD PRODUCTS, AND ALL OTHER IMPLIED WARRANTIES ARE SPECIFICALLY EXCLUDED. BIRO IS NOT LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, EXPENSES, OR LOSSES. THE REMEDIES PROVIDED IN THIS BIRO LIMITED WARRANTY ARE PURCHASER'S SOLE AND EXCLUSIVE REMEDIES AGAINST BIRO.

**REGISTRATION CARDS:** You must sign, date and complete the warranty registration card supplied with each machine. The warranty card must be returned to The BIRO Manufacturing Company for proper registration. If no warranty card is returned to BIRO, the warranty period will begin from the date the machine was originally shipped from the factory.

### HOW TO GET SERVICE:

1. Contact the agency from whom you purchased the machine; or
2. Consult the yellow pages of the phone directory for the nearest authorized dealer; or
3. Contact Biro Manufacturing Company for the nearest authorized service entity in your area.

### BIRO MANUFACTURING COMPANY

1114 W Main Street  
Marblehead, OH 43440  
Ph. 419-798-4451  
Fax 419-798-9106  
Service@birosaw.com  
www.birosaw.com

ITEM NO.: 16313FH-305

PTCT: MD 3334FH-10-16-14-B