



## **SPARE PART AND OPERATION MANUAL**

Form 109 (01/11)

**FOOD MIXER**  
**Model W80, W100N, W150PL**  
**1993 to Present**

## Caution    -READ BEFORE OPERATING-    Caution

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Varimixer recommends that mixer operators be at least 18 years of age and be thoroughly trained on the use of the mixer.

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Varimixer recommends that the following precautions be adopted to help make the mixer operation safer and more efficient.

- All operators should be at least 18 years of age.
- All operators should be thoroughly trained before being allowed to operate the mixer.
- NEVER reach into the bowl when the mixer is running.
- Do not wear loose clothing or rings while operating the mixer.
- Stop the mixer and lower the bowl before adding ingredients, scraping the bowl, removing the agitator, or removing the product.
- Stop the mixer before removing or installing attachments into the drive hub.
- Do not attempt to assemble or disassemble attachments while mounted into the drive hub.
- Always use the pusher plate with the slicer/meat grinder attachments.
- NEVER bypass the safety mechanisms supplied on the mixer. Doing so can cause injury and is the responsibility of the user to insure these safety mechanisms are operating properly.



## LIMITED WARRANTY

Varimixer warrants its commercial mixers to the original purchaser against defects in material or manufacture for a period of one year from the date of original purchase, subject to the following exclusions and limitations.

## EXCLUSIONS

The warranties provided by Varimixer do not apply in the following instances:

1. In the event that the equipment is improperly installed. Proper installation is the responsibility of the installer, proper installation procedures are covered in the Varimixer Spare Parts and Operations Manual.
2. In the event that the equipment is improperly maintained. Proper maintenance is the responsibility of the user. Proper maintenance procedures are covered in the Varimixer Spare Parts and Operations Manual.
3. In the event that failure or malfunction of the appliance or any part thereof is caused by abnormal use or is otherwise not attributable to a defect in material or manufacture.
4. In the event that the appliance, by whatever cause, has been materially altered from the condition in which it left the factory.
5. In the event that the rating plate has been altered or removed.
6. On parts which would normally be worn or replaced under normal conditions.
7. With regard to adjustments and/or calibrations. Checking of and changes in adjustments and calibrations are the responsibility of the installer, Proper installation is the responsibility of the installer, proper installation procedures are covered in the Varimixer Spare Parts and Operations Manual.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE OR WARRANTY AGAINST LATENT DEFECTS.

## LIMITATIONS OF LIABILITY

In the event of warranty claim or otherwise, the sole obligation of Varimixer shall be the repair and/or replacement at the option of Varimixer, of the appliance or component or part thereof. Such repair or replacement shall be the expense of Varimixer *except* that travel over 100 miles or two hours, overtime, and holiday charges shall be, the expense of the purchaser. Any repair or replacement under this warranty does not constitute an extension of the origin, warranty for any period for the appliance or for any component part thereof. Parts to be replaced under this warranty will be repaired or replaced at the option of Varimixer with new or functionally operative parts. The liability of Varimixer on any claim of any kind, including claims based on warranty, expressed or implied, contract, negligence, strict liability or any other theories shall be solely and exclusively the repair or replacement of the product as stated herein, and such liability shall not include, and purchaser specifically renounces any rights to recover, special, incidental, consequential or other damages of any kind whatsoever, including, but not limited to, injuries to persons or damage to property, loss of profits or anticipated profits, or loss of use of the product.

## TO SECURE WARRANTY SERVICE

If you claim a defect covered by this Limited Warranty, first direct your claim to the local Authorized Service Agency, giving model, serial and code numbers, voltage, a description of the problem and your sales slip. If this procedure fails to be satisfactory to you, you may write to the Varimixer National Service Manager, 14240 South Lakes Drive, Charlotte, NC 28273; you should include the information listed above.

## TABLE OF CONTENTS

### W80-W100PL

|                                   |       |
|-----------------------------------|-------|
| Installation Instructions.....    | 4     |
| Operating Instructions.....       | 5     |
| Cleaning-Maintenance.....         | 6     |
| Belt Adjustments and Removal..... | 7     |
| Adjusting the Bowl Height.....    | 8     |
| Capacity Chart.....               | 9     |
| Machine Column.....               | 10-13 |
| Bowl Arms.....                    | 14-17 |
| Planetary Head.....               | 18-19 |
| Transmission.....                 | 20-21 |
| Speed Lever Assembly.....         | 22-23 |
| Attachment Drive.....             | 24-25 |
| Bowl Screen.....                  | 26-27 |
| Instrument Panel.....             | 28-31 |
| Accessories.....                  | 32-33 |
| Electrical Diagrams.....          | 34-39 |

### W150PL

|                    |    |
|--------------------|----|
| W150PL Manual..... | 41 |
|--------------------|----|

Read this page entirely BEFORE beginning installation.

## VARIMIXER INSTALLATION INSTRUCTIONS

UNDER NO CIRCUMSTANCES ARE THE SPEED LEVER, BOWL LIFT LEVER, OR THE BOWL ARMS TO BE USED TO MOVE THE MIXER INTO PLACE. DAMAGE WILL RESULT TO THE UNIT.

IT IS RECOMMENDED THAT THE TOP LID BE REMOVED BEFORE MOVING THE UNIT.

The mixer must be mounted with the rubber feet, which neutralize both shaking and rusting. Spacers can be inserted under the mixer's feet if the floor is uneven. The mixer can be bolted to the floor if desired.

Before the mixer is connected to power, it should be checked that the voltage and frequency on the rating plate is correct in relation to the place of installation. A unit labeled 220V 3 Phase will operate from 208V to 240V 3 phase safely. The rating plate is located on the rear right side of the mixer. The electrical connection box is located at the top rear of the mixer.

### WARNING

Electrical and grounding connections must comply with applicable portions of the National Electrical Code and/or other local electrical codes.

#### Wire Color Codes

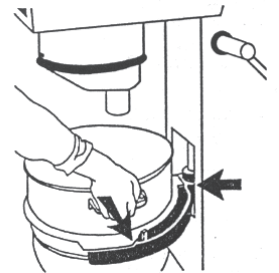
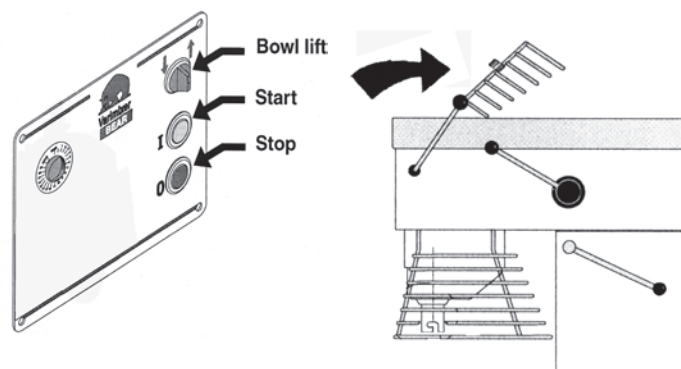
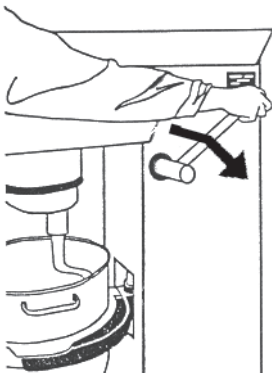
White-Phase 1

Red -Phase 2

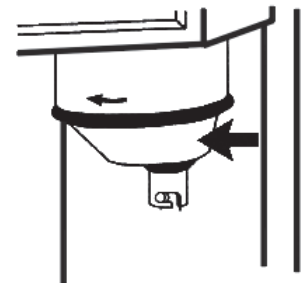
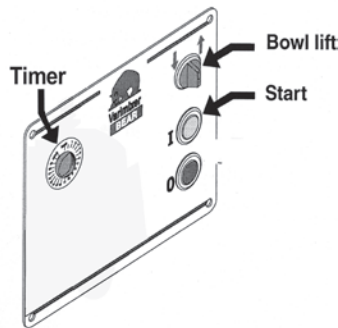
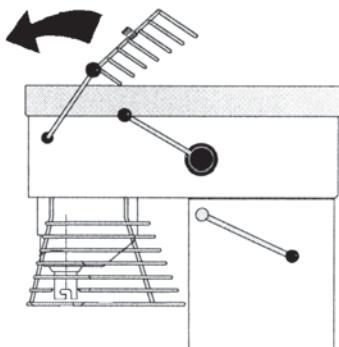
Black-Phase 3

Green-Ground

No Neutral is used in the United States and Canada



1. Lower the bowl using the bowl lift lever or the bowl lift switch on the front panel.
2. Open the bowl screen.
3. Remove the bowl and tools.



4. Close bowl screen and raise the bowl arms into the up position.
5. Turn timer to 10 minutes and push "start".
6. Insure cover is rotating in the correct direction.

## OPERATION OF THE MIXER:

- A) Open the bowl screen and place the bowl in the bowl arms. Note: The bowl arms must be in lowest position and the bowl must be pushed all the way into the bowl arms. (Fig.3).
- B) Place the mixing tool in the bayonet shaft. The pin on the tool must be turned into the bayonet hole (fig.2).
- C) The bowl is raised to working position by a clockwise turn of the button for bowl lift. Ensure that the bowl is placed correctly. Close the bowl screen. If the mixer is equipped with a timer, set the mixing time required by turning the timer (fig 1) clockwise. The mixer will stop automatically, when the time runs out. When the mixer has timed out, the "procedure for starting after emergency stop" is used before the mixer is re-started.
- D) Start the mixer by pressing the green start button (fig.1)
- The mixer will only start when the bowl is in the "up" position, the bowl screen is "closed", and the timer is set to "time" or "hold".
- E) Turn the speed selector lever (fig. 4) to the rear until the required speed has been obtained, (notice the recommended maximum speeds on page 3).
- F) Before the mixer is stopped, the speed selector lever must be moved back to lowest speed (fig.4).
- G) Stop the mixer by pressing the red stop button (fig.1)

## PROCEDURE FOR STARTING AFTER EMERGENCY STOP:

- 1) This procedure must be used in cases where the mixer has been interrupted in high speed.
- 2) Lower the bowl and remove the tool from the bayonet.
- 3) Raise the bowl arms, either empty or with the bowl.
- 4) Close the bowl screen, start the mixer and move the speed selector lever back to lowest speed. Switch off the mixer. Now the mixer can be started as usual.

## OVERLOAD

*Do not overload the mixer. Sticky and heavy doughs may reduce the capacity of the bowl by 75%. The capacity is further reduced if the speed of the mixing tool is increased beyond recommended values or if an incorrect mixing tool is used. Large lumps of fat or cooled ingredients MUST be cut into small parts before they are placed into the bowl or damage can occur to the mixing tool(s).*

Fig. 1 Operation panel.

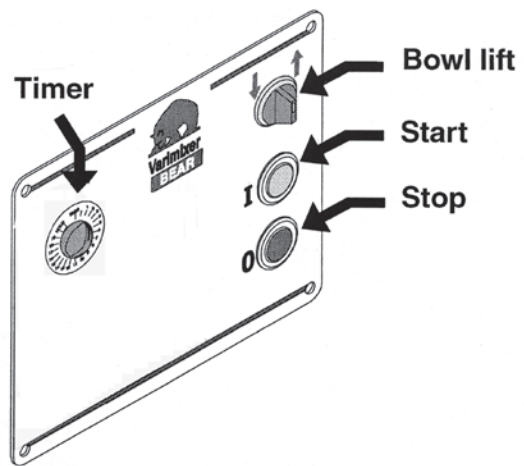


Fig. 2

Mixer with open safety screen, lowered bowl and mounted tool.

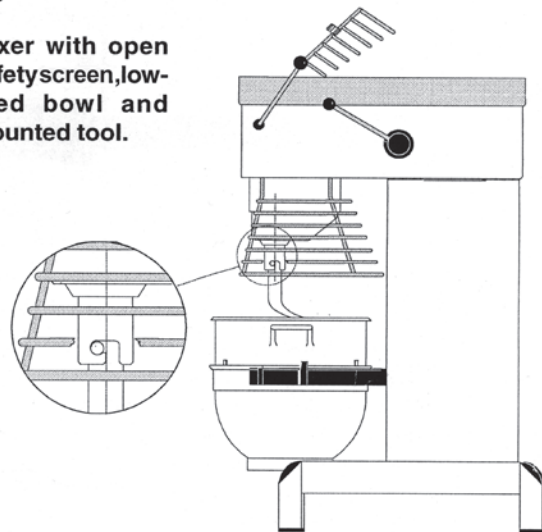


Fig. 3

Mixer seen from above, the bowl has been pushed all the way into the bowl arms. Notice: the third "ear" of the bowl is facing the mixer

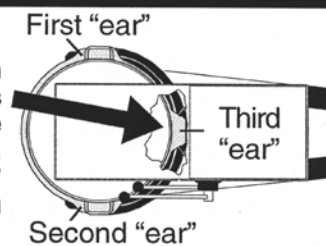
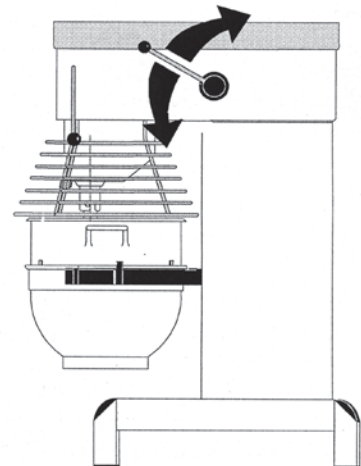


Fig. 4

Mixer with closed safety screen, raised bowl and mounted tool.



### Correct use of tools:

*Whips should never be struck against hard objects, this will decrease the life of the tool.*

### Recommended applications for tools:

| Whip          | Beater        | Hook                 |
|---------------|---------------|----------------------|
| Cream         | Cakes         | Pizza                |
| Egg Whites    | Waffles       | Bread                |
| Mayonnaise    | Muffins       | Donut                |
| and the like. | and the like. | Doughs and the like. |

### Cleaning:

The mixer should be cleaned daily or after use. The mixer should be cleaned with a soft cloth and clean water. Sulphonated soaps should be used with caution as they destroy the mixer's lubricants.

Never use high pressure cleaning for the mixer.

Bowls and tools of aluminium must not be washed with strong alkaline detergents (pH not to exceed 9.0).

The soap suppliers can recommend the correct type of soap.

The mixer should be unplugged before cleaning to prevent accidental starting while cleaning.

The inside of the beater shaft should be cleaned once a day with warm, soapy water.

**Dough hook Cleaning:** Special care should be given to cleaning the dough hook. We recommend that it be cleaned and sanitized in a commercial dish machine. An alternate cleaning procedure is to vigorously scrub the hook with a hot water and detergent solution. Use a heavy bristled brush. After cleaning, sanitize the hook by rinsing it with a 50 ppm solution of sodium hypochlorite.

### Maintenance and Lubrication:

The variable speed pulleys must be lubricated regularly, i.e. a lubrication interval of approx. 60 hours of operation or once a week.

### Lubrication of variable speed pulleys:

-Start the mixer and increase the speed to approx. 50%. Stop the mixer and open the lid on the top of the mixer. On the top of each of the two pulley set shafts is a grease nipple (fig. 5 point 1). Press grease through the grease nipples until the grease gun feels hard to press or until grease comes out between the shaft and the pulleys.

-Start the mixer, and set the speed back to low speed.

-Stop the mixer and fill the grease gun with new grease so that it is ready for next time.

### Lubrication of other movable parts:

The movable parts of the bowl arms, the shaft and the lifting rod must also be lubricated with oil. Remove the rear covering and lubricate the marked points with an oil can. (fig.5 pkt.2)

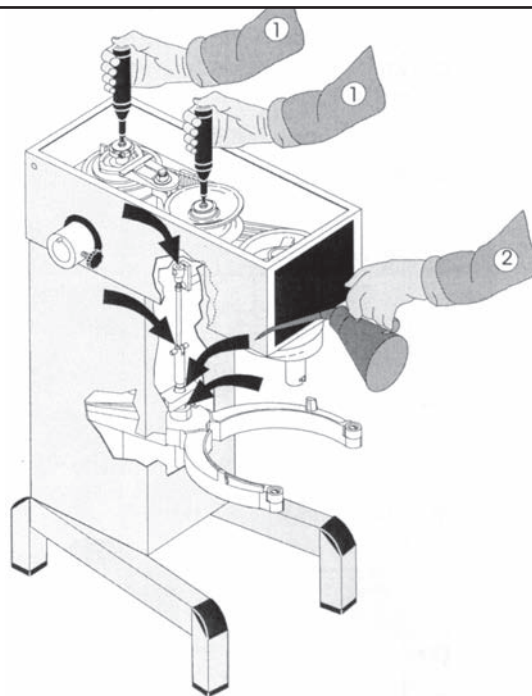
### Grease Types:

-Grease for the pulley set shafts: Lubriplate # 1200-2

-On repair of the planetary head: Grease the toothed wheel and the toothed rim with Nye Gel 868VH, (PN 868VH), the needle bearings in the planetary head must not be lubricated with this type of grease, they should be lubricated with PN Sapphire 2. Do not use any another type of grease than the one stated here.

-On repair of the attachment drive: Fill the attachment drive with Tribol Molub 860/150-0, (PN 860/150-0).

Fig.5



## List of Errors

## Possible Solutions

A rattling sound from the closed part of the mixer.  
 The mixer starts "striking" when kneading dough which normally causes no problems.  
 The mixer changes its speed by itself.  
 The minimum and the maximum speeds are changing.  
 The bowl is too tight or too loose.  
 The tool hits the sides of the bowl.  
 The tool hits the bottom of the bowl.

Adjustment of special v-belt  
 Adjustment of special v-belt  
 Adjustment of special v-belt  
 Adjustment of speed.  
 Adjustment of bowl fixing  
 Adjustment of bowl centering or damaged tool.  
 Adjustment of bowl height or damaged tool.



**Prior to a possible repair or adjustment, switch off the mixer by disconnecting the power cable.**

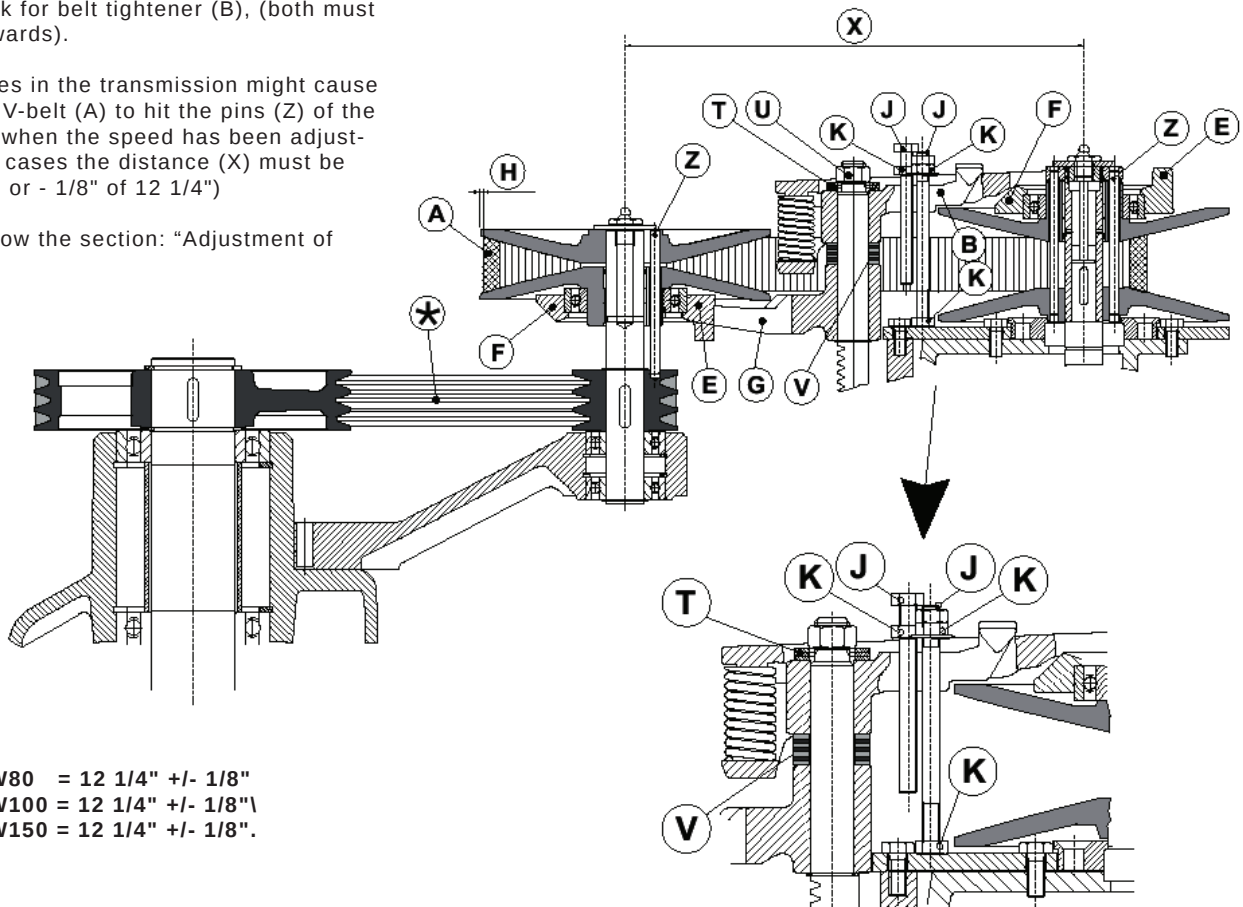
### Adjustment of special v-belt:

The distance (X) is only indicative as it depends on the tolerance of the special V-belt.

1. Start by tightening the v-belts (\*).
2. Tighten the special V-belt (A) by moving one or two washers from (V) to (T).
3. Start the mixer and leave it running while the nut (U) is tightened completely.
4. On the front pulley set the stud (E) on the varispeed collar (F) must be placed inside the lower fork (G) and on the rear pulley set outside the fork for belt tightener (B), (both must point backwards).
5. Tolerances in the transmission might cause the special V-belt (A) to hit the pins (Z) of the pulley sets when the speed has been adjusted. In such cases the distance (X) must be reduced. (+ or - 1/8" of 12 1/4")
6. Then follow the section: "Adjustment of speed"

### Adjustment of speed:

1. The stop screws (J) on the speed lever should be adjusted so that the measurement (H) is 1/8" on the front and the rear pulley, at low and high speed, respectively. Tighten the counter nuts (K) when the speed is correctly adjusted.
2. Tolerances in the transmission might cause that the special V-belt (A) is hitting the pins of the pulley sets (Z) when the speed has been adjusted. In such cases the distance (X) must be reduced, see "Adjustment of special v-belt", and the speed must be readjusted.



(X) W80 = 12 1/4" +/- 1/8"  
 (X) W100 = 12 1/4" +/- 1/8"  
 (X) W150 = 12 1/4" +/- 1/8"

### **Adjustment of bowl centering:**

First find the present bowl centering: mount the beater and the bowl, then raise the bowl arms up to normal working position. With your hand turn the beater, and then measure the distance between beater and bowl edge. By removing the rear covering, the bowl arm guide plate is now accessible (E). Loosen the screws (D) and move the bowl arm guide plate in the required direction. Again turn the beater and measure the distance between beater and bowl. When the bowl has been centred, fasten the bowl arm guide plate in the new position and screw on the rear covering.

### **Adjustment of bowl fixing:**

The bowl arms must be raised to normal working position. The adjusting diameter (Y) shall be measured inside between the bowl arms (fig.6a):

Adjusting diameter (Y): W80 = 20 3/8"  
W100 = 21 13/16"

In case the bowl fastening is too loose, remove the lock ring (B) and draw the bearing (A) from the shaft (C). The bearing should be turned 180 degrees and be mounted on the shaft again. It might be necessary to turn both bearings. At last check the bowl centering and if necessary, adjust.

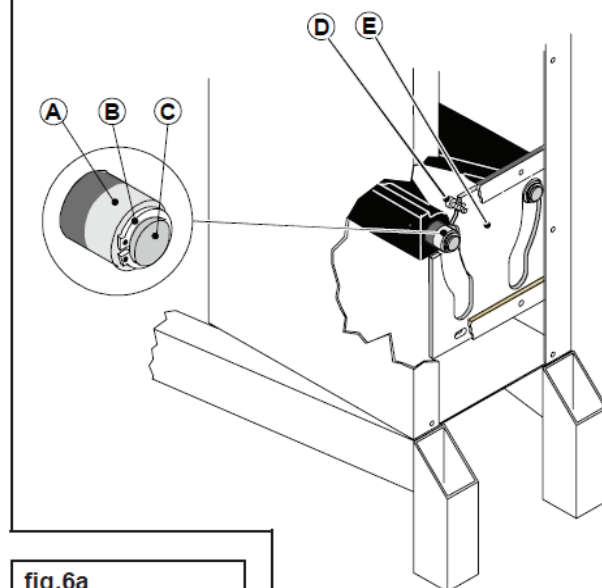
### **Adjustment of bowl height:**

The distance (X) is measured from the bottom side of the bayonet hole to the surface on the bowl arms on which the bowl rests (fig.7a). The bowl arms must be lifted to normal working position.

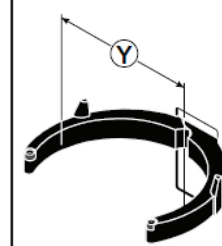
Bowl height (X): W80 = 9 1/4"  
W100 = 11 3/4"

The upper and lower position of the bowl is determined by micro switch (1) and (2), (fig. 7b). The two mechanical stops consisting of the bolts (3) and (4) are adjusted so that they will be hit approx. 1 mm after the micro switch, in case the micro switch should fail. The lower position is adjusted first; by sliding the entire bracket assembly up or down on the slots on the bracket (2). The upper position of the bowl arms is adjusted by adjusting the up position micro switch mounting bracket (2) up or down; it is of utmost importance that the stop screw (3) is re-adjusted afterwards.

**fig.6 Adjustment of bowl fixing and bowl centering:**

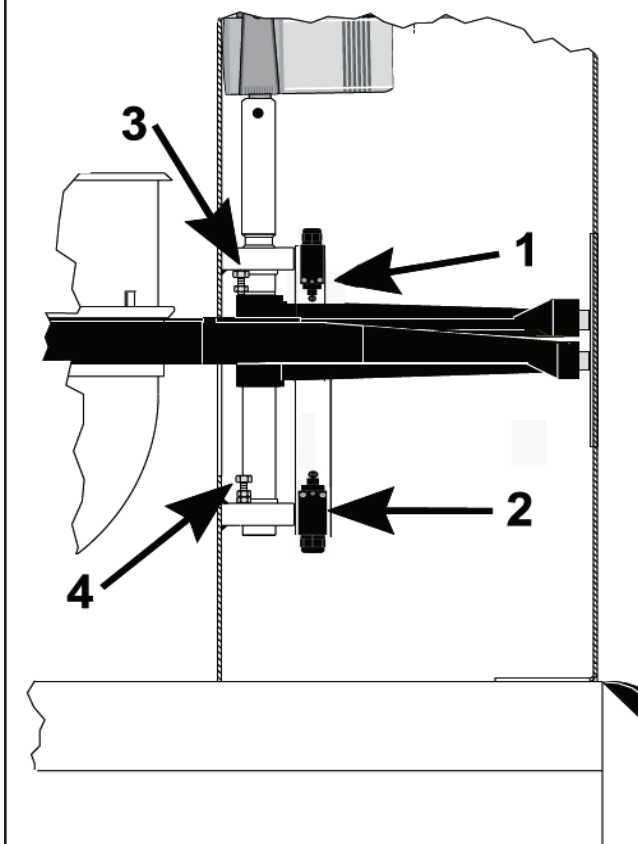


**fig.6a**

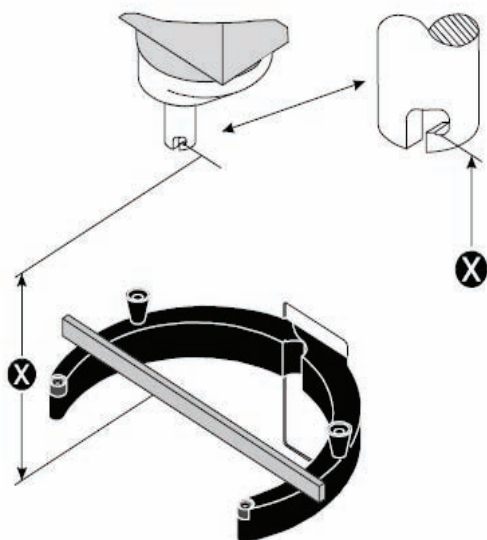


The bearing (A) has two diameters. As standard the mixer is delivered with the bearings mounted so that the smallest diameter points away from the bowl arms, which means the loosest bowl clamping.

**fig.7b Adjustment of bowl height:**

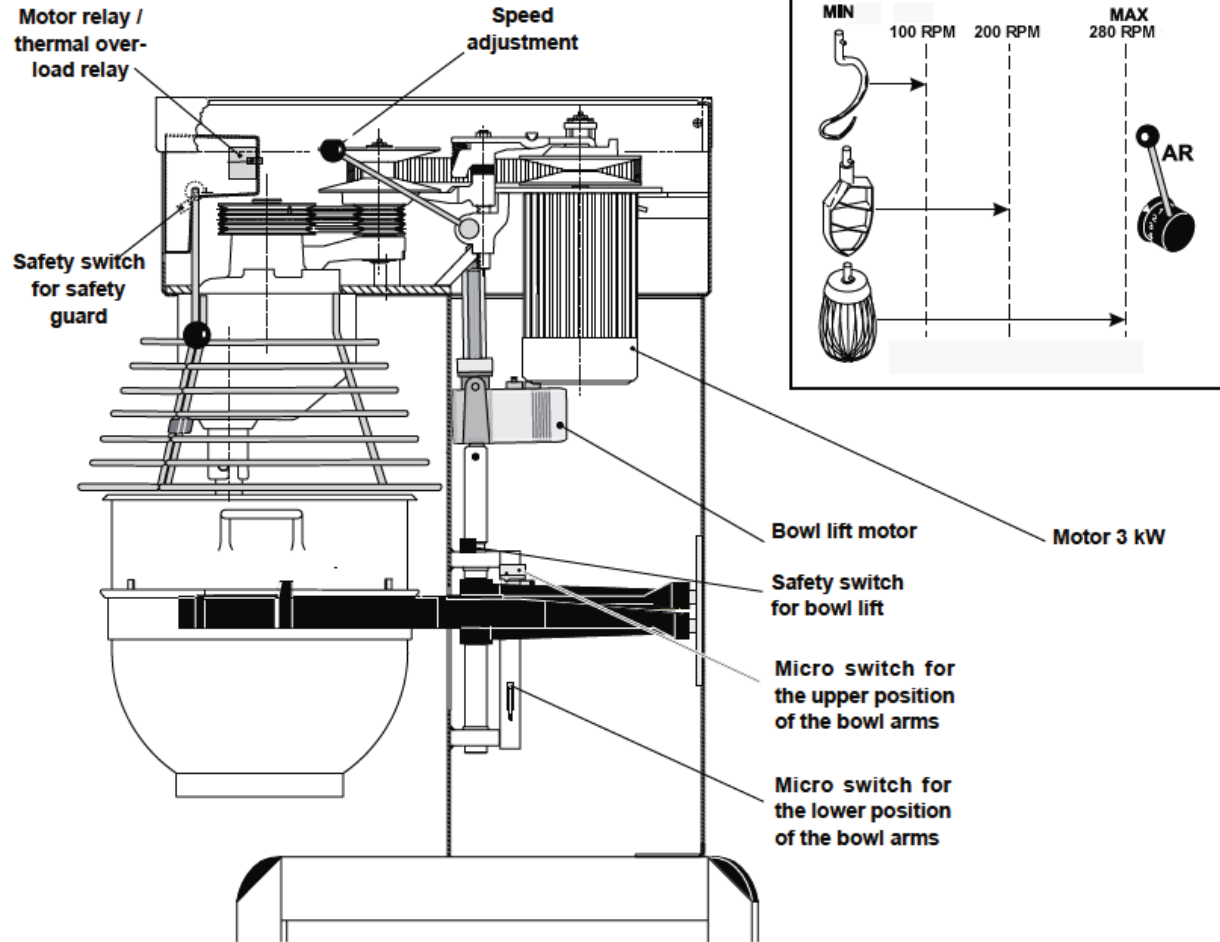


**fig.7a Measuring of bowl height:**



## CONSTRUCTION OF THE MIXER:

## RECOMMENDED MAXIMUM SPEEDS:



| Product             | W80      | W100     | W150     |
|---------------------|----------|----------|----------|
| Dough, Bread-65%AR  | 105 Lbs. | 155 Lbs. | 190 Lbs. |
| Dough, Pizza-50% AR | 90 Lbs.  | 135 Lbs. | 175 Lbs. |
| Dough, Donut-Yeast  | 80 Lbs.  | 150 Lbs. | 170 Lbs. |
| Dough, Donut-Cake   | 60 Lbs.  | 140 Lbs. | 225 Lbs. |
| Pie Dough           | 69 Lbs.  | 95 Lbs.  | 135 Lbs. |
| Cookie, Dough       | 68 Lbs.  | 105 Lbs. | 160 Lbs. |
| Muffins             | 90 Lbs.  | 125 Lbs. | 195 Lbs. |
| Mashed Potatoes     | 58 Lbs.  | 76 Lbs.  | 110 Lbs. |
| Pancakes, Waffles   | 35 Qts.  | 44 Qts.  | 50 Qts.  |
| Whipped Cream       | 16 Qts.  | 20 Qts.  | 32 Qts.  |
| Cake, Layer         | 92 Lbs.  | 125 Lbs. | 175 Lbs. |
| Eggs & Sugar        | 40 Lbs.  | 57 Lbs.  | 80 Lbs.  |
| Icing, Fondant      | 50 Lbs.  | 76 Lbs.  | 105 Lbs. |
| Egg Whites          | 2.5 Qts  | 3 Qts.   | 4 Qts.   |
| Cake, Cup           | 140 dz.  | 178 dz.  | 250 dz.  |
| Cookies, Sugar      | 132 dz.  | 171 dz.  | 240 dz.  |

% AR=weight of liquids  
weight of flour

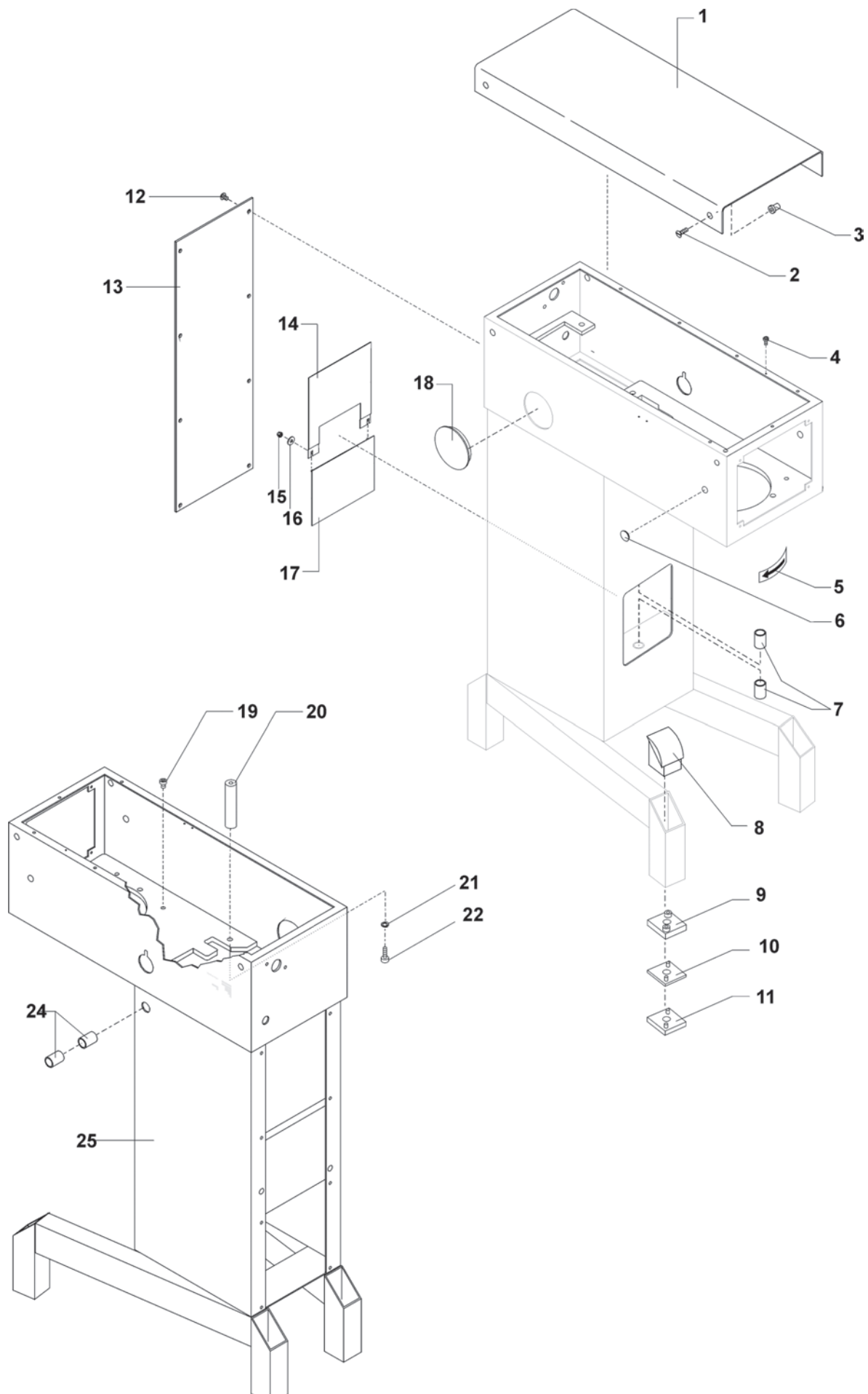
### Water weights

|                 |            |
|-----------------|------------|
| 1 Gallon        | =8.33 lbs. |
| 1 Quart         | =2.08 lbs  |
| 1 Pint (16 oz.) | =1.04 lbs. |
| 1 Cup           | = .52 lbs. |

Batch size and/or speed reduction may be necessary due to one of the following conditions:  
1.High Gluten Flour-Reduce batch size by 10%

- 2.AR % under 40%-Reduce batch size by 10%
- 3.Water temp under 65 Degrees F
- 4.USE OF ICE REQUIRES A 10% REDUCTION IN BATCH SIZE.
- 5. Speed should not exceed 100 RPM when mixing dough.

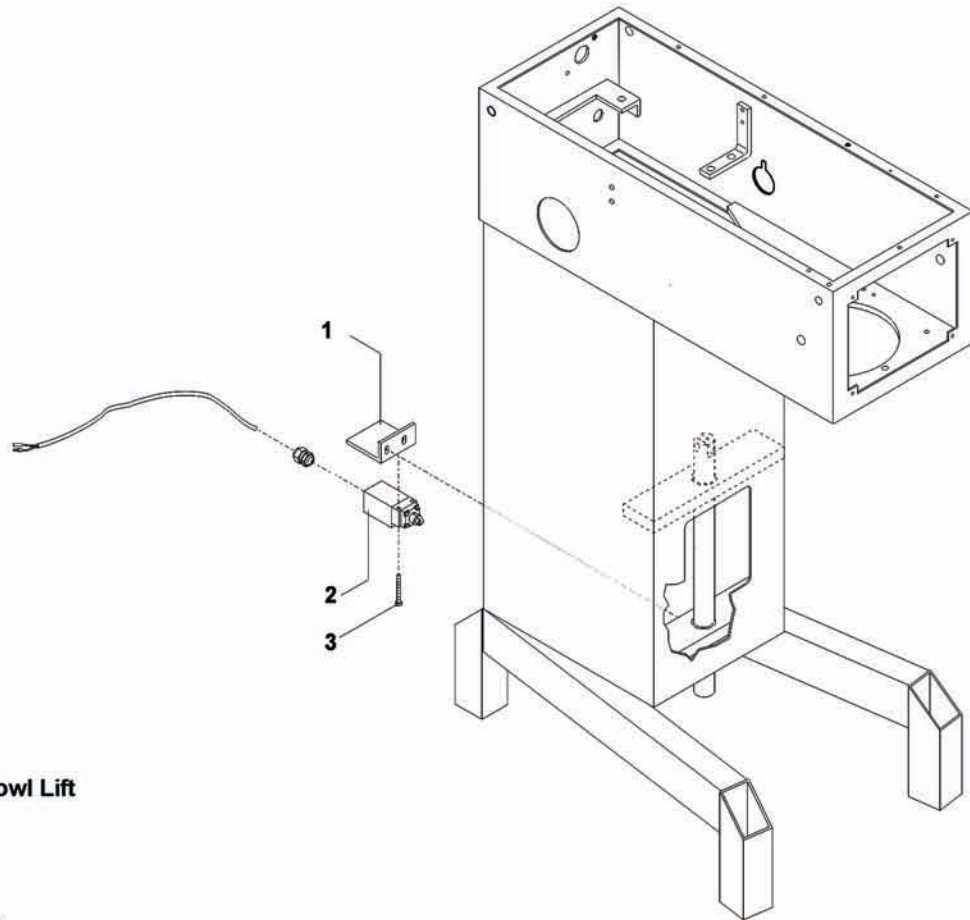




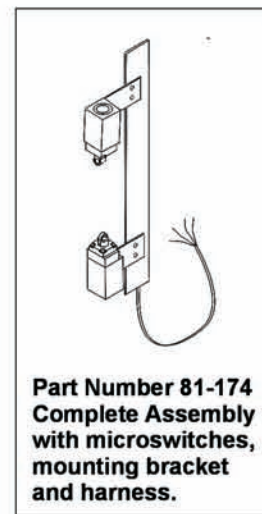
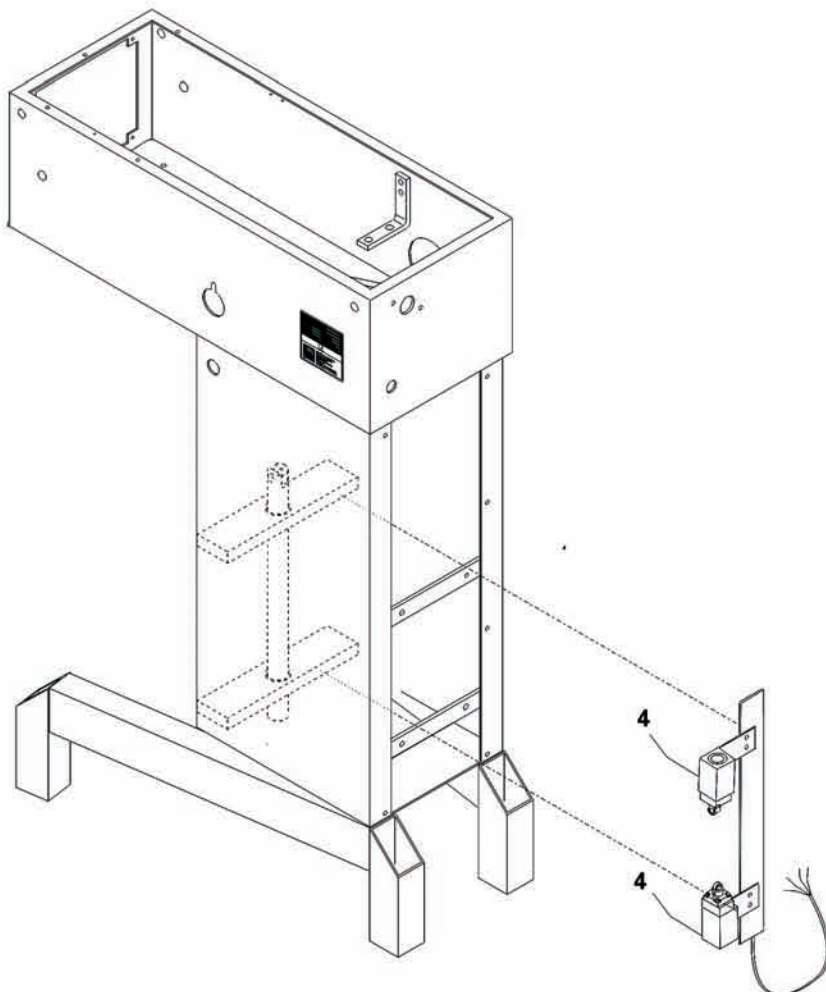
## Machine Column W80-W100

| <u>Fig.<br/>No.</u> | <u>Description</u>           | <u>W80</u>                | <u>W100</u>               |
|---------------------|------------------------------|---------------------------|---------------------------|
| 1.                  | Top Lid                      | <a href="#">100-21</a>    | <a href="#">100-21</a>    |
| 2.                  | Screw for Lid M6x20          | STA 5017                  | STA 5017                  |
| 3.                  | Threaded Bushing             | STA 6580                  | STA 6580                  |
| 4.                  | Ground Screw                 | STA 5232                  | STA 5232                  |
| 5.                  | Arrow Label                  | <a href="#">15-214</a>    | <a href="#">15-214</a>    |
| 6.                  | Plug Button                  | STA 6519                  | STA 6519                  |
| 7.                  | Bushings for Bowl Arm Shaft  | STA 2526                  | STA 2526                  |
| 8.                  | Knee Pad                     | <a href="#">80-212</a>    | <a href="#">80-212</a>    |
| 9.                  | Foot                         | <a href="#">80N-213</a>   | <a href="#">80N-213</a>   |
| 10.                 | 3MM Foot                     | <a href="#">80N-214.3</a> | <a href="#">80N-214.3</a> |
| 11.                 | 6MM Foot                     | <a href="#">80N-214.6</a> | <a href="#">80N-214.6</a> |
| 12.                 | Screw M6X10                  | STA 5080                  | STA 5080                  |
| 13.                 | Rear Panel                   | 100N-22.7                 | 100N-22.7                 |
| 14.                 | Upper NSF Plate              | <a href="#">81-270</a>    | <a href="#">101-270</a>   |
| 15.                 | Lock Nut                     | STA 5834                  | STA 5834                  |
| 16.                 | Washer                       | STA 6027                  | STA 6027                  |
| 17.                 | Lower NSF Plate              | <a href="#">81-271</a>    | <a href="#">101-271</a>   |
| 18.                 | Plug Button f/ No Hub        | 15-71                     | 15-71                     |
| 19.                 | Plug Button                  | NLA                       | NLA                       |
| 20.                 | Motor mount shaft            | 81-148                    | 81-148                    |
| 21.                 | Washer                       | STA 6056                  | STA 6056                  |
| 22.                 | Bolt                         | STA 5625                  | STA 5625                  |
| 23.                 | N/A                          | N/A                       | N/A                       |
| 24.                 | Bushings for Bowl Lift Lever | STA 2515                  | N/A                       |
| 25.                 | Machine Column               | 81-22                     | 81-22                     |

**For mixers with Manual Bowl Lift**



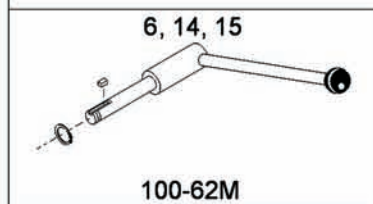
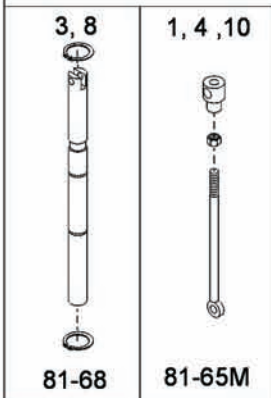
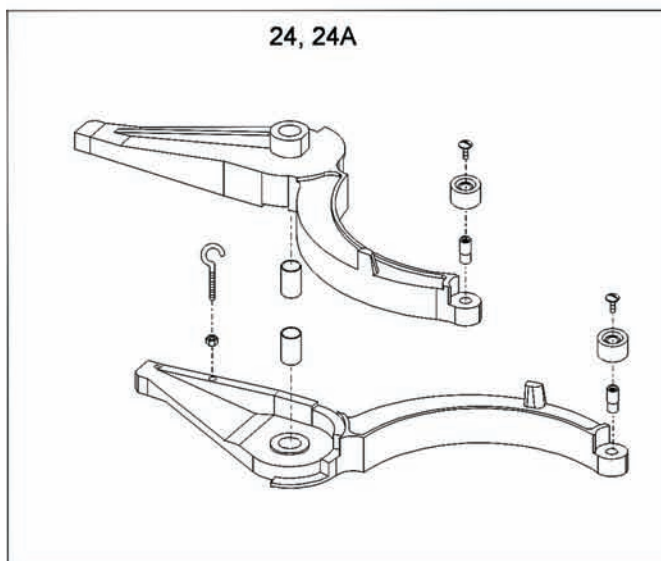
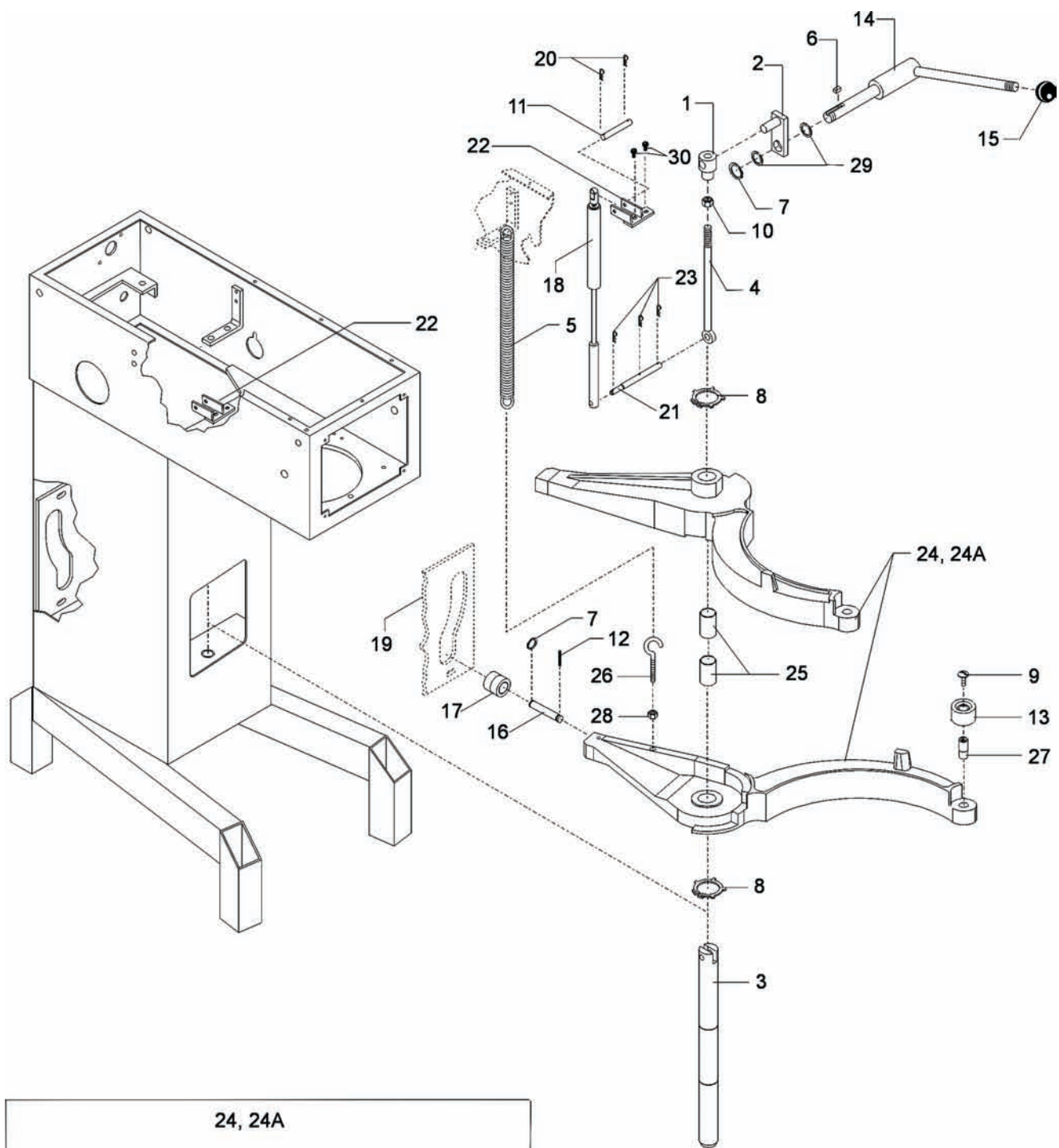
**For mixers with Power Bowl Lift**



**Part Number 81-174  
Complete Assembly  
with microswitches,  
mounting bracket  
and harness.**

### Bowl Lift Microswitches W80-W100

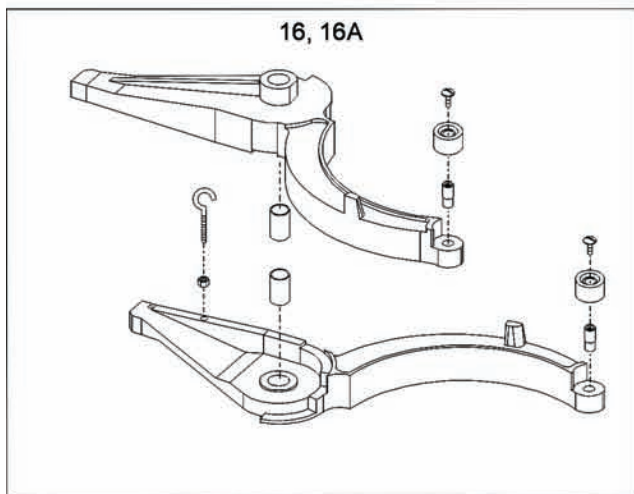
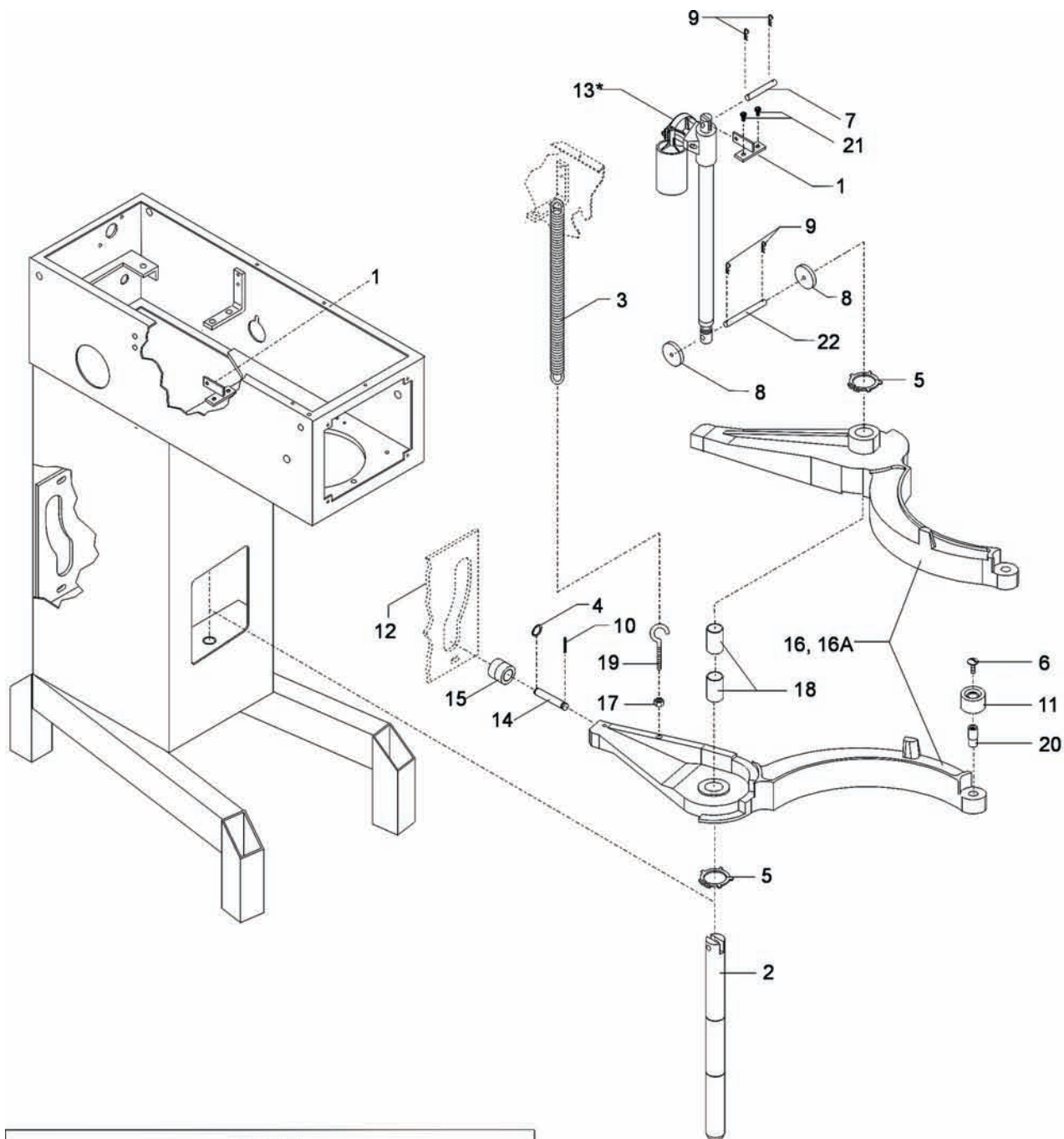
| <u>Fig.<br/>No.</u> | <u>Description</u>                                | <u>W80</u> | <u>W100</u> |
|---------------------|---------------------------------------------------|------------|-------------|
| 1.                  | Microswitch Bracket (Manual Lift)                 | 81-612     | N/A         |
| 2.                  | Microswitch                                       | 81-173     | N/A         |
| 3.                  | Screw                                             | STA 5270   | N/A         |
| 4.                  | Microswitch Bracket Assembly<br>(Power Bowl Lift) | 81-174     | 81-174      |

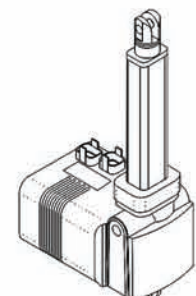


## Manual Bowl Lift (W80 Only)

| <u>Fig.<br/>No.</u> | <u>Description</u>                 | <u>W80</u>               |
|---------------------|------------------------------------|--------------------------|
| 1.                  | Lift Nut                           | <a href="#">15-65</a>    |
| 2.                  | Crank Arm                          | <a href="#">60-63</a>    |
| 3.                  | Bowl Arm Shaft                     | <a href="#">81-68</a>    |
| 4.                  | Lifting Rod                        | <a href="#">81-83</a>    |
| 5.                  | Lift Spring                        | <a href="#">60-110</a>   |
| 6.                  | Key                                | STA 2020                 |
| 7.                  | Snap Ring                          | STA 3408                 |
| 8.                  | Snap Ring                          | STA 3462                 |
| 9.                  | Screw                              | STA 5088                 |
| 10.                 | Nut                                | STA 5827                 |
| 11.                 | Pin                                | STA 6205                 |
| 12.                 | Pin                                | STA 6370                 |
| 13.                 | Roller                             | <a href="#">31-128</a>   |
| 14.                 | Lift Lever                         | <a href="#">100-62M</a>  |
| 15.                 | Ball                               | STA 3308                 |
| 16.                 | Shaft                              | <a href="#">81-71.10</a> |
| 17.                 | Roller                             | <a href="#">81-71.5M</a> |
| 18.                 | Bowl Lift Dampener                 | <a href="#">81-600M</a>  |
| 19.                 | Bowl Arm Guide Plate               | <a href="#">81-71</a>    |
| 20.                 | Cotter Pin                         | STA 6205                 |
| 21.                 | Pin For Lift/Dampener              | <a href="#">81-67.1</a>  |
| 22.                 | Upper Mounting Bracket F/Dampener  | <a href="#">81-86.42</a> |
| 23.                 | Cotter Pin                         | STA 6205                 |
| 24.                 | Bowl Arm Left (facing unit front)  | <a href="#">81-23</a>    |
| 24A.                | Bowl Arm Right (facing unit front) | <a href="#">81-24</a>    |
| 25.                 | Bushings for Bowl Arms             | STA 2526                 |
| 26.                 | Eye Bolt for Bowl Arm Spring       | STA 5550                 |
| 27.                 | Roller Shaft                       | <a href="#">31-127</a>   |
| 28.                 | Nut                                | STA 5819                 |
| 29.                 | Washer                             | STA 6044                 |

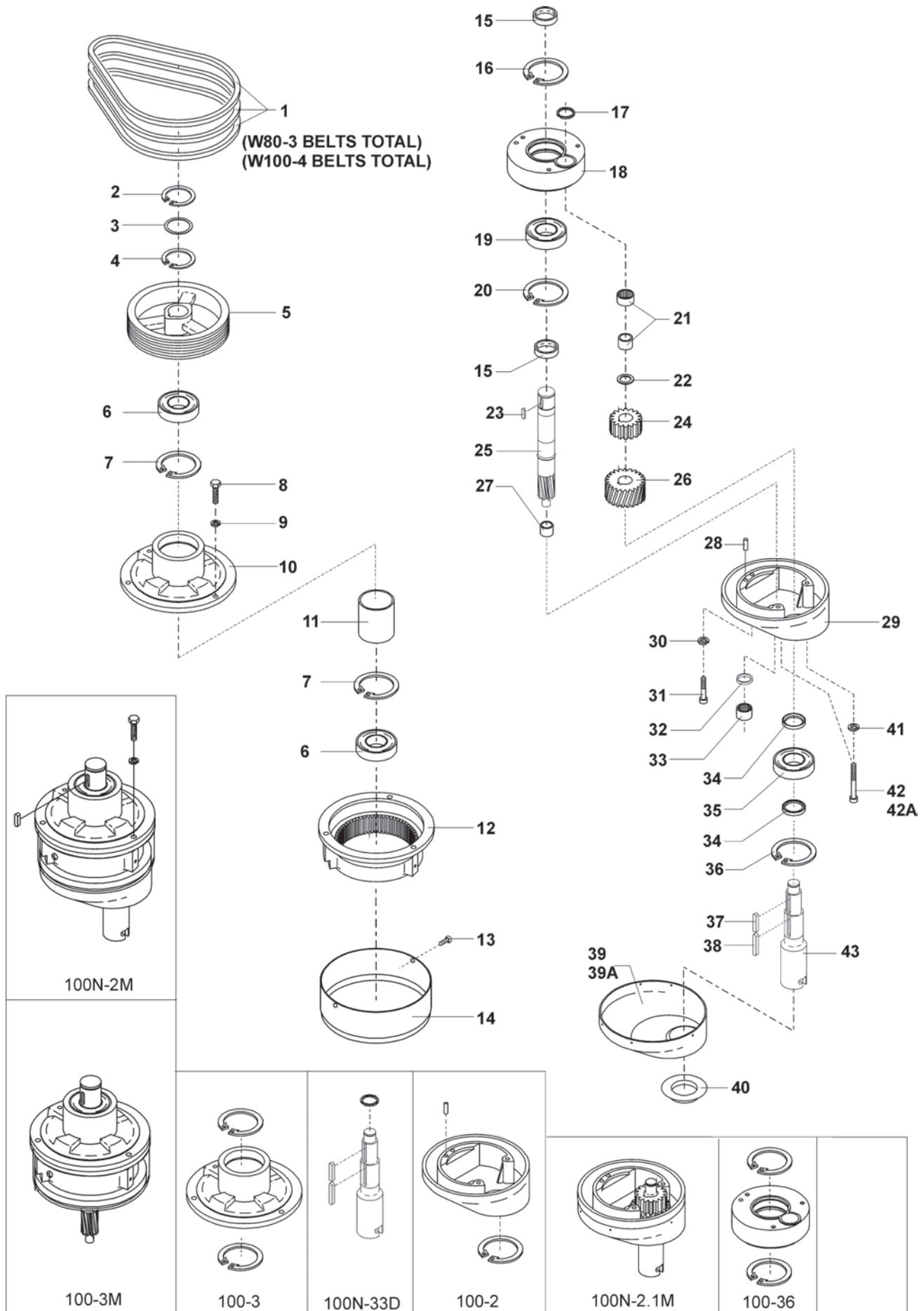
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|                                                                                                                                                              |                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>*13E</b><br/>Control Box for Magnetic<br/>24V Bowl Lift Motor</p>  | <p><b>*13B, 13C, 13D</b><br/>Magnetic Brand Motor</p>  |
| <p><b>13F</b></p>                                                         |                                                                                                                                             |

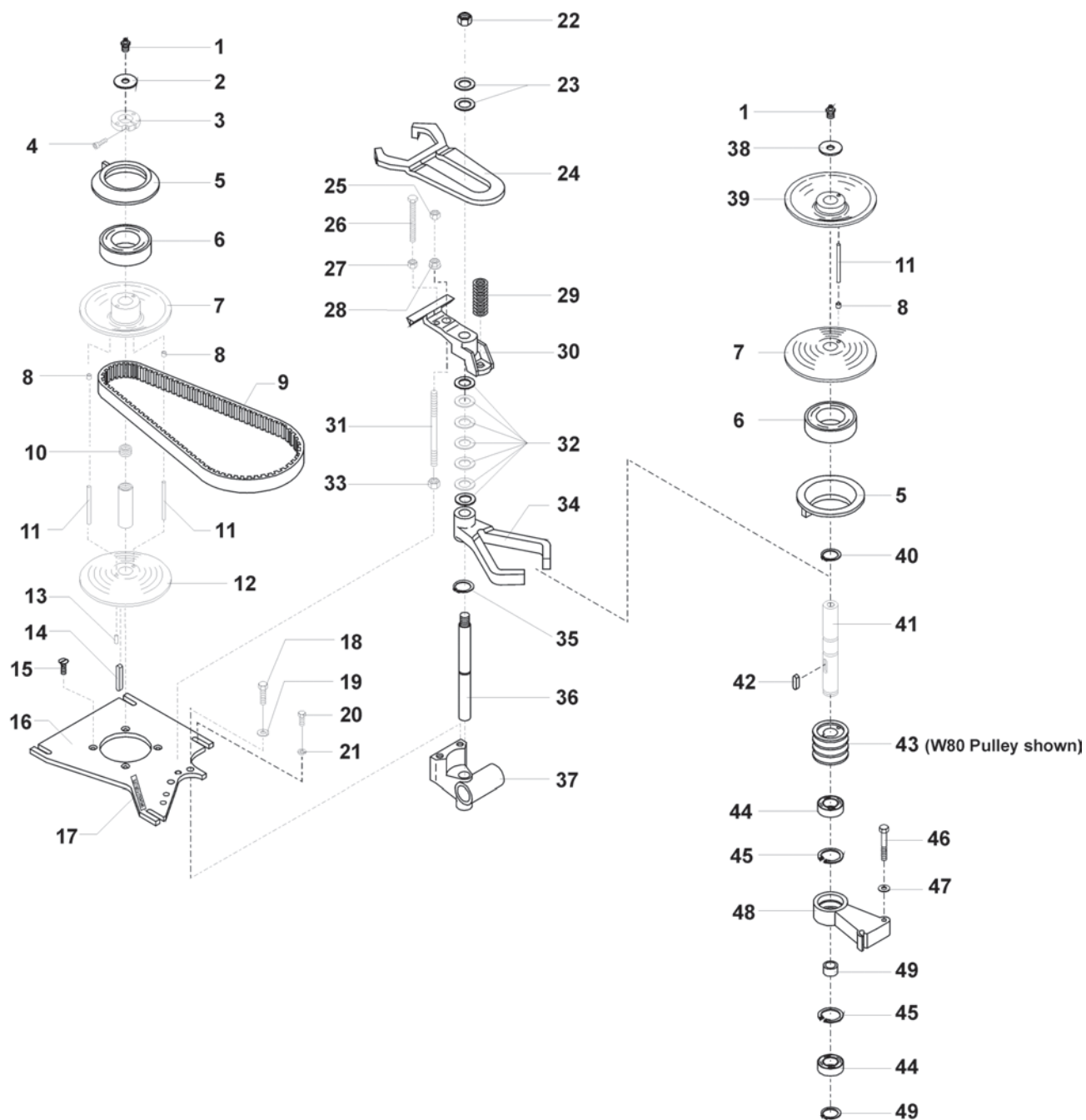
## Power Bowl Lift W80-W100

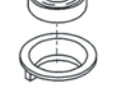
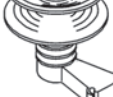
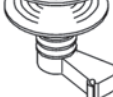
| <u>Fig.<br/>No.</u> | <u>Description</u>                  | <u>W80</u> | <u>W100</u> |
|---------------------|-------------------------------------|------------|-------------|
| 1.                  | Upper Bowl Lift Motor Bracket       | 81-86.40   | 81-86.40    |
| 2.                  | Bowl Arm Shaft                      | 81-68      | 101-68      |
| 3.                  | Lift Spring                         | 60-110     | 60-110      |
| 4.                  | Snap Ring                           | STA 3408   | STA 3408    |
| 5.                  | Snap Ring                           | STA 3462   | STA 3462    |
| 6.                  | Screw                               | STA 5088   | STA 5088    |
| 7.                  | Pin                                 | 100-67     | 100-67      |
| 8.                  | Roller for Bowl Arm Shaft           | 100N-66    | 100N-66     |
| 9.                  | Cotter Pins                         | STA 6205   | STA 6205    |
| 10.                 | Pin                                 | STA 6370   | STA 6370    |
| 11.                 | Roller                              | 31-128     | 31-128      |
| 12.                 | Bowl Arm Guide Plate                | 81-71      | 81-71       |
| 13.                 | Bowl Lift Motor (Linak shown-24VDC) | 100N-86.02 | 100N-86.02  |
| 13B.                | Bowl Lift Motor Magnetik (115V)     | 81-86.1    | 81-86.1     |
| 13C.                | Bowl Lift Motor Magnetik (240V)     | 81-86.2    | 81-86.2     |
| 13D.                | Bowl Lift Motor Magnetik (24VDC)    | 81-86.15   | 81-86.15    |
| 13E.                | Control Box for Magnetik (24VDC)    | 140-87     | 140-87      |
| 13F.                | Transformer (220V/24V)              | 140-430    | 140-430     |
| 13G.                | Transformer (480V/220V)             | 140-430.1  | 140-430.1   |
| 14.                 | Shaft                               | 81-71.10   | 81-71.10    |
| 15.                 | Roller                              | 81-71.5M   | 81-71.5M    |
| 16.                 | Bowl Arm Left (facing unit front)   | 81-23      | 101-23      |
| 16A.                | Bowl Arm Right (facing unit front)  | 81-24      | 101-24      |
| 17.                 | Nut                                 | STA 5819   | STA 5819    |
| 18.                 | Bowl Arm Bushings                   | STA 2526   | STA 2526    |
| 19.                 | Eye Bolt for Bowl Arm Spring        | STA 5550   | STA 5550    |
| 20.                 | Roller Shaft                        | 31-127     | 31-127      |
| 21.                 | Bolt                                | STA 5322   | STA 5322    |



## Planetary Head W80-W100

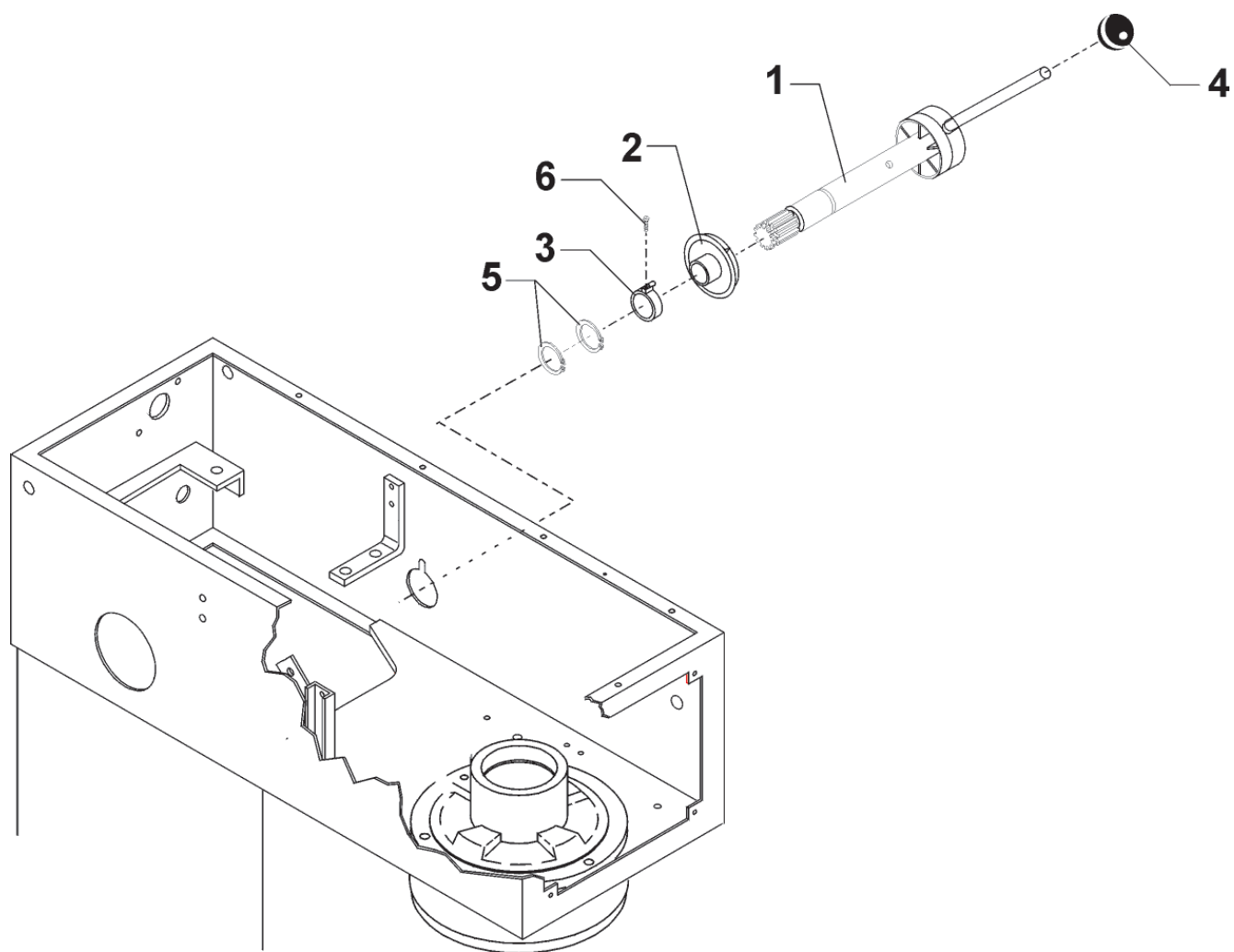
| Fig.<br>No. | Description                       | W80                         | W100                        |
|-------------|-----------------------------------|-----------------------------|-----------------------------|
| 1.          | V-Belt (Must be changed as a set) | <a href="#">100-90.1</a>    | <a href="#">100N-90.2</a>   |
|             |                                   | Order qty 3                 | Order qty 4                 |
| 2.          | Snap Ring                         | STA 3419                    | STA 3419                    |
| 3.          | Washer                            | STA 6048                    | STA 6048                    |
| 4.          | Snap Ring                         | STA 3419                    | STA 3419                    |
| 5.          | Planetary Pulley                  | <a href="#">100-129A</a>    | <a href="#">100N-129A</a>   |
| 6.          | Ball Bearing                      | 100-99                      | 100-99                      |
| 7.          | Snap Ring                         | STA 3532                    | STA 3532                    |
| 8.          | Bolt                              | STA 5346                    | STA 5346                    |
| 9.          | Lockwasher                        | STA 6057                    | STA 6057                    |
| 10.         | Main Bearing Casting              | <a href="#">100-3</a>       | <a href="#">100-3</a>       |
| 11.         | Distance Tube                     | <a href="#">100-141</a>     | <a href="#">100-141</a>     |
| 12.         | Gear Wheel                        | <a href="#">100-1</a>       | <a href="#">100-1</a>       |
| 13.         | Screw                             | STA 5044                    | STA 5044                    |
| 14.         | Shroud                            | <a href="#">100-22.9P</a>   | <a href="#">100-22.9P</a>   |
| 15.         | Spacer                            | <a href="#">100-37</a>      | <a href="#">100-37</a>      |
| 16.         | Snap Ring                         | STA 3530                    | STA 3530                    |
| 17.         | Snap Ring                         | STA 3478                    | STA 3478                    |
| 18.         | Eccentric Disc                    | <a href="#">100-36</a>      | <a href="#">100-36</a>      |
| 19.         | Ball Bearing                      | <a href="#">100-100</a>     | <a href="#">100-100</a>     |
| 20.         | Snap Ring                         | STA 3530                    | STA 3530                    |
| 21.         | Needle Bearing w/ Race            | <a href="#">100-96</a>      | <a href="#">100-96</a>      |
| 22.         | Washer                            | <a href="#">100-235</a>     | <a href="#">100-235</a>     |
| 23.         | Key                               | STA 2030                    | STA 2030                    |
| 24.         | Upper Rim Pinion                  | <a href="#">100-31</a>      | <a href="#">100-31</a>      |
| 25.         | Main Shaft                        | <a href="#">100N-30</a>     | <a href="#">100N-30</a>     |
| 26.         | Lower Rim Pinion                  | <a href="#">100N-32N</a>    | <a href="#">100N-32N</a>    |
| 27.         | Race for Needle Bearing           | <a href="#">100-101RACE</a> | <a href="#">100-101RACE</a> |
| 28.         | Pin                               | STA 6460                    | STA 6460                    |
| 29.         | Lower Planetary Head Casting      | <a href="#">100-2</a>       | <a href="#">100-2</a>       |
| 30.         | Lockwasher                        | STA 6057                    | STA 6057                    |
| 31.         | Bolt                              | STA 5644                    | STA 5644                    |
| 32.         | Seal                              | <a href="#">100-108R</a>    | <a href="#">100-108R</a>    |
| 33.         | Needle Bearing w/Race             | <a href="#">100-101</a>     | <a href="#">100-101</a>     |
| 34.         | Spacer                            | <a href="#">100-37</a>      | <a href="#">100-37</a>      |
| 35.         | Ball Bearing                      | <a href="#">100-97</a>      | <a href="#">100-97</a>      |
| 36.         | Snap Ring                         | STA 3532                    | STA 3532                    |
| 37.         | Key                               | STA 2034                    | STA 2034                    |
| 38.         | Key                               | STA 2039                    | STA 2039                    |
| 39.         | Stainless Steel Cover             | <a href="#">100-272</a>     | <a href="#">100-272</a>     |
| 40.         | Rubber Ring                       | <a href="#">100-209</a>     | <a href="#">100-209</a>     |
| 41.         | Lockwasher                        | STA 6057                    | STA 6057                    |
| 42.         | Bolt (Allen Head-under cover)     | STA 5650                    | STA 5650                    |
| 42A         | Bolt (Hex Head S/S-over cover)    | STA 5652                    | STA 5652                    |
| 43.         | Bayonet Shaft                     | <a href="#">100N-33D</a>    | <a href="#">100N-33D</a>    |



|                                                                                                                                        |                                                                                                                                                    |                                                                                                                                                    |                                                                                                                                      |                                                                                                                                                      |                                                                                                                           |                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|  <p><b>60-59M</b><br/>Motor Pulley<br/>Assembly</p> |  <p><b>60-13.1M</b><br/>Lower Motor<br/>Pulley<br/>Assembly</p> |  <p><b>60-15.1M</b><br/>Upper Motor<br/>Pulley<br/>Assembly</p> |  <p><b>60-13M</b><br/>Top Pedestal<br/>Pulley</p> |  <p><b>60-15M</b><br/>Lower Pulley<br/>Pedestal<br/>Assembly</p> |  <p><b>100-6M</b><br/>W80 3-Belt</p> |  <p><b>100N-6M</b><br/>W100 4-Belt</p> |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|

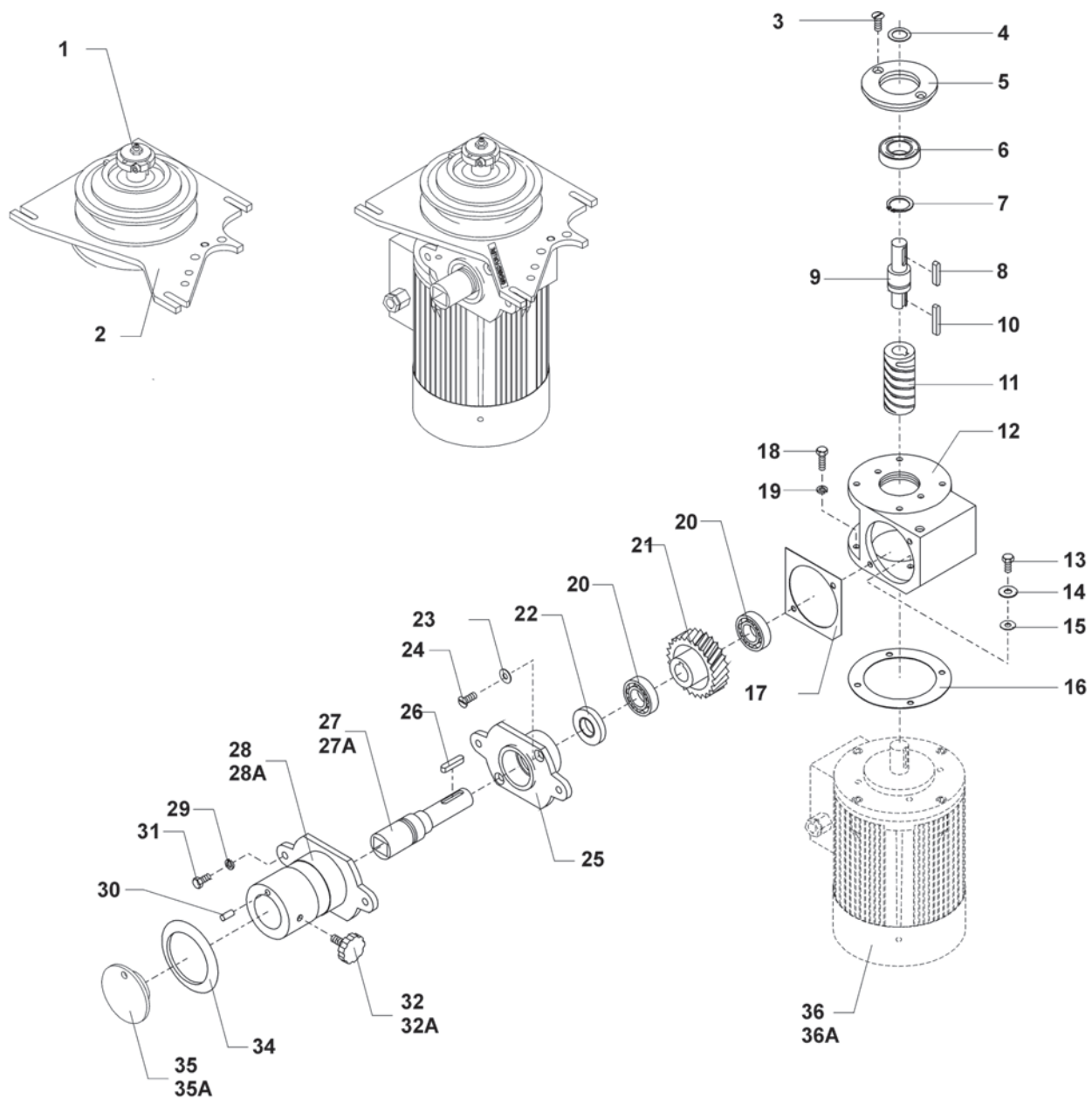
## Transmission W80-W100

| <u>Fig.<br/>No.</u> | <u>Description</u>                  | <u>W80</u>   | <u>W100</u>   |
|---------------------|-------------------------------------|--------------|---------------|
| 1.                  | Grease Zerk                         | STA 3220     | STA 3220      |
| 2.                  | Washer                              | STA 6018     | STA 6018      |
| 3.                  | Clamping Ring w/screw               | 27-227       | 27-227        |
| 4.                  | Screw f/clamping ring               | STA 5612     | STA 5612      |
| 5.                  | Vari Speed Collar                   | 15-17        | 15-17         |
| 6.                  | Ball Bearing                        | 15-103       | 15-103        |
| 7.                  | Movable Pulley                      | 60-15.1M     | 60-15.1M      |
| 8.                  | Bushing                             | STA 2505     | STA 2505      |
| 9.                  | Vari Speed Belt                     | 60-91        | 60-91         |
| 10.                 | Reducer                             | 15-156       | 15-156        |
| 11.                 | Drive Pin                           | 60-285       | 60-285        |
| 12.                 | Motor Pulley Bottom Half Assembly   | 60-13.1M     | 60-13.1M      |
| 13.                 | Set Screw                           | STA 5602     | STA 5602      |
| 14.                 | Key (no attachment drive)           | STA 2011     | STA 2011      |
| 14A.                | Key (f/units with attachment drive) | STA 2007     | STA 2007      |
| 15.                 | Slotted Screw f/motor mount plate   | STA 5018     | STA 5018      |
| 16.                 | Motor Mount Plate                   | 60-61        | 60-61         |
| 17.                 | Label                               | N/A          | N/A           |
| 18.                 | Mounting Bolt f/speed mechanism     | STA 5345     | STA 5345      |
| 19.                 | Washer                              | STA 6010     | STA 6010      |
| 20.                 | Bolt f/motor mount plate            | STA 5433     | STA 5433      |
| 21.                 | Washer                              | STA 6026     | STA 6026      |
| 22.                 | Nut f/rack                          | STA 5815     | STA 5815      |
| 23.                 | Washers for spring fork             | STA 6040     | STA 6040      |
| 24.                 | Upper Fork                          | 20-19        | 20-19         |
| 25.                 | Jam Nut f/ low speed stop           | STA 5810     | STA 5810      |
| 26.                 | Bolt f/high speed stop              | STA 5446     | STA 5446      |
| 27.                 | Jam Nut f/ high speed stop          | STA 5810     | STA 5810      |
| 28.                 | Flanged Nut f/low speed stop        | STA 5895     | STA 5895      |
| 29.                 | Vari Spring                         | 40P-275      | 40P-275       |
| 30.                 | Trestle                             | 20-26        | 20-26         |
| 31.                 | Pin Bolt f/low speed stop           | 30N-305      | 30N-305       |
| 32.                 | Washers for spring fork             | STA 6040     | STA 6040      |
| 33.                 | Flanged Nut f/low speed stop        | STA 5895     | STA 5895      |
| 34.                 | Lower Fork                          | 27-16        | 27-16         |
| 35.                 | Snap ring f/rack                    | STA 3407     | STA 3407      |
| 36.                 | Rack                                | 15-46        | 15-46         |
| 37.                 | Bearing for Rack                    | 15-18        | 15-18         |
| 38.                 | Washer                              | STA 6018     | STA 6018      |
| 39.                 | Upper Pedestal Pulley               | 60-13M       | 60-13M        |
| 40.                 | Snap Ring                           | STA 3410     | STA 3410      |
| 41.                 | Pedestal Shaft                      | 60-41        | 100N-41       |
| 42.                 | Key f/Pedestal Shaft                | STA 2022     | STA 2022      |
| 43.                 | Pulley f/Pedestal Shaft             | 100-128 (3V) | 100N-128 (4V) |
| 44.                 | Ball Bearing                        | 27-102       | 27-102        |
| 45.                 | Snap Ring                           | STA 3514     | STA 3514      |
| 46.                 | Bolt                                | STA 5348     | STA 5348      |
| 47.                 | Washer                              | STA 6026     | STA 6026      |
| 48.                 | Pedestal Arm                        | 100-6        | 100N-6        |
| 49.                 | Snap Ring                           | STA 3410     | STA 3410      |

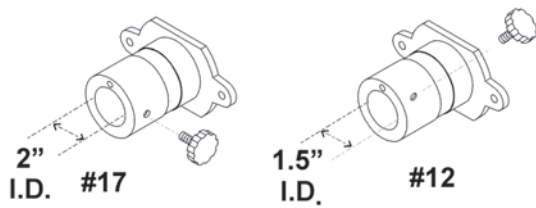


## Speed Lever System W80-W100

| <u>Fig.<br/>No.</u> | <u>Description</u> | <u>W80-W100</u> |
|---------------------|--------------------|-----------------|
| 1.                  | Speed Lever W80    | 80N-47M         |
| 1A.                 | Speed Lever W100   | 100N-47M        |
| 2.                  | Disc w/ arrow      | 30N-47.10       |
| 3.                  | White Clamp        | 30N-47.20       |
| 4.                  | Black Knob         | STA 3306        |
| 5.                  | Snap Ring          | STA 3414        |
| 6.                  | Screw              | STA 5247        |



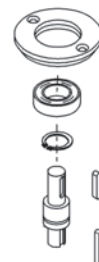
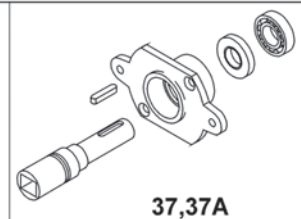
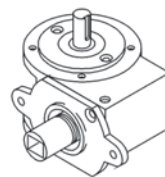
#### IDENTIFYING A #17 HUB VERSUS A #12 HUB



THIS AFFECTS ITEM NUMBERS:

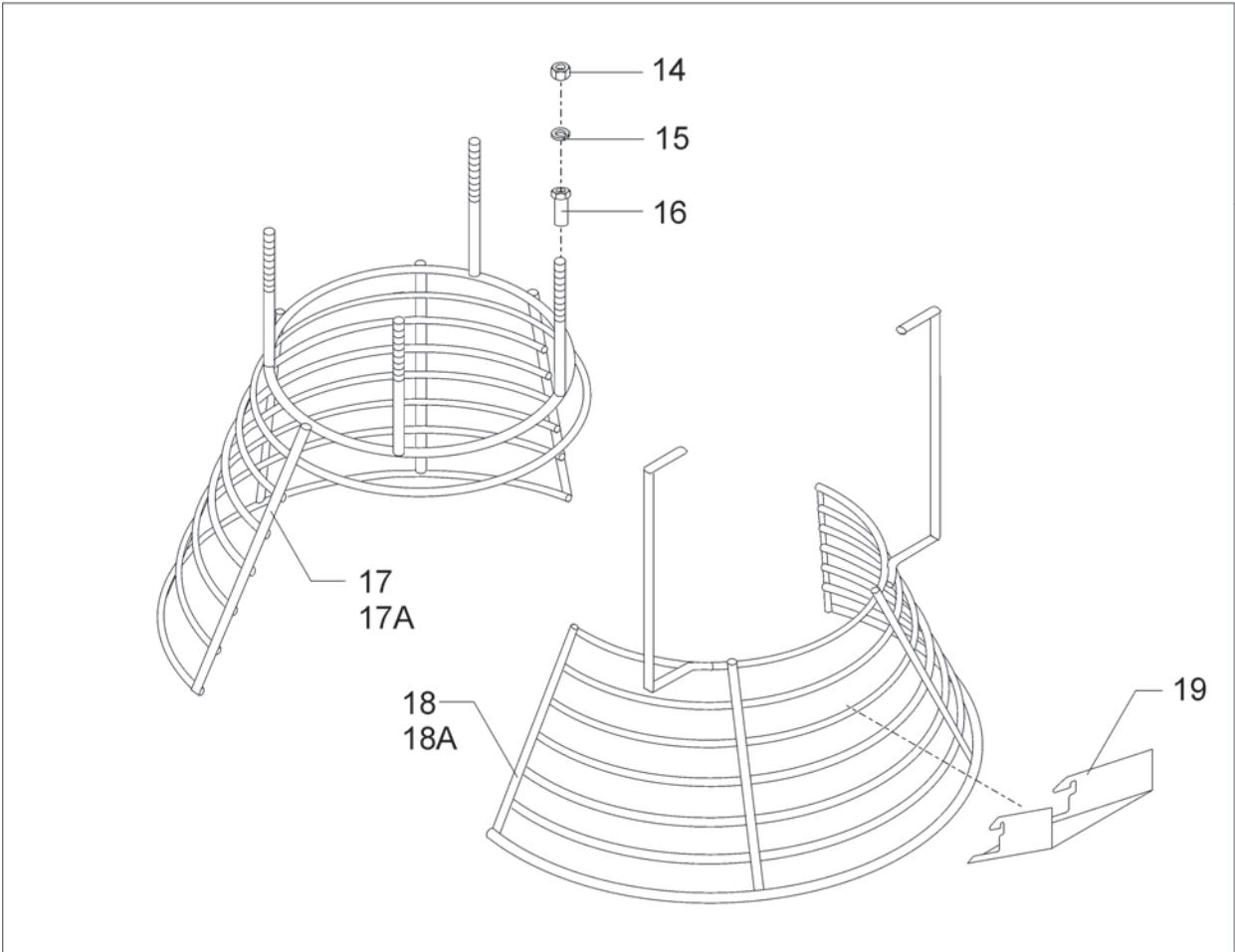
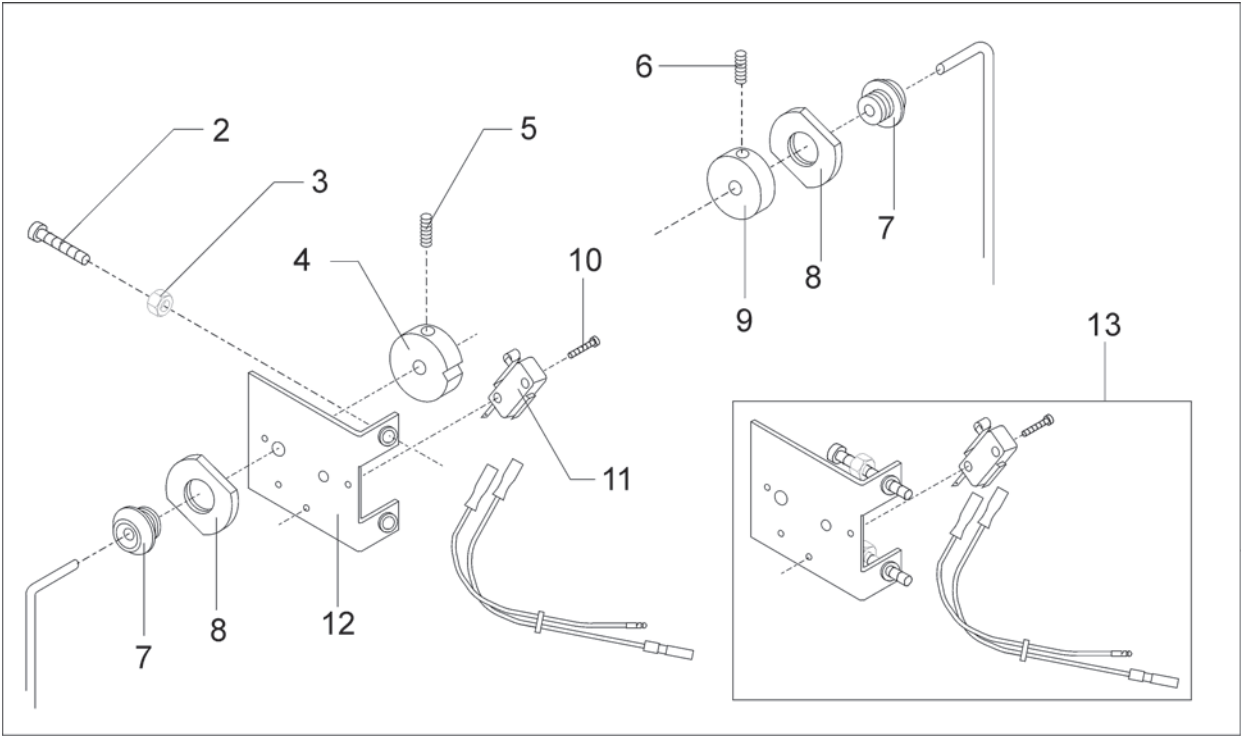
27, 27A, 28, 28A  
32, 32A, 35, 35A  
37, 37A, 38, 38A,

PLEASE DETERMINE HUB SIZE BEFORE  
ORDERING PARTS



## Attachment Drive (W80 Only)

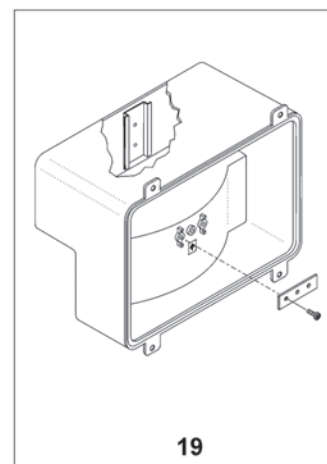
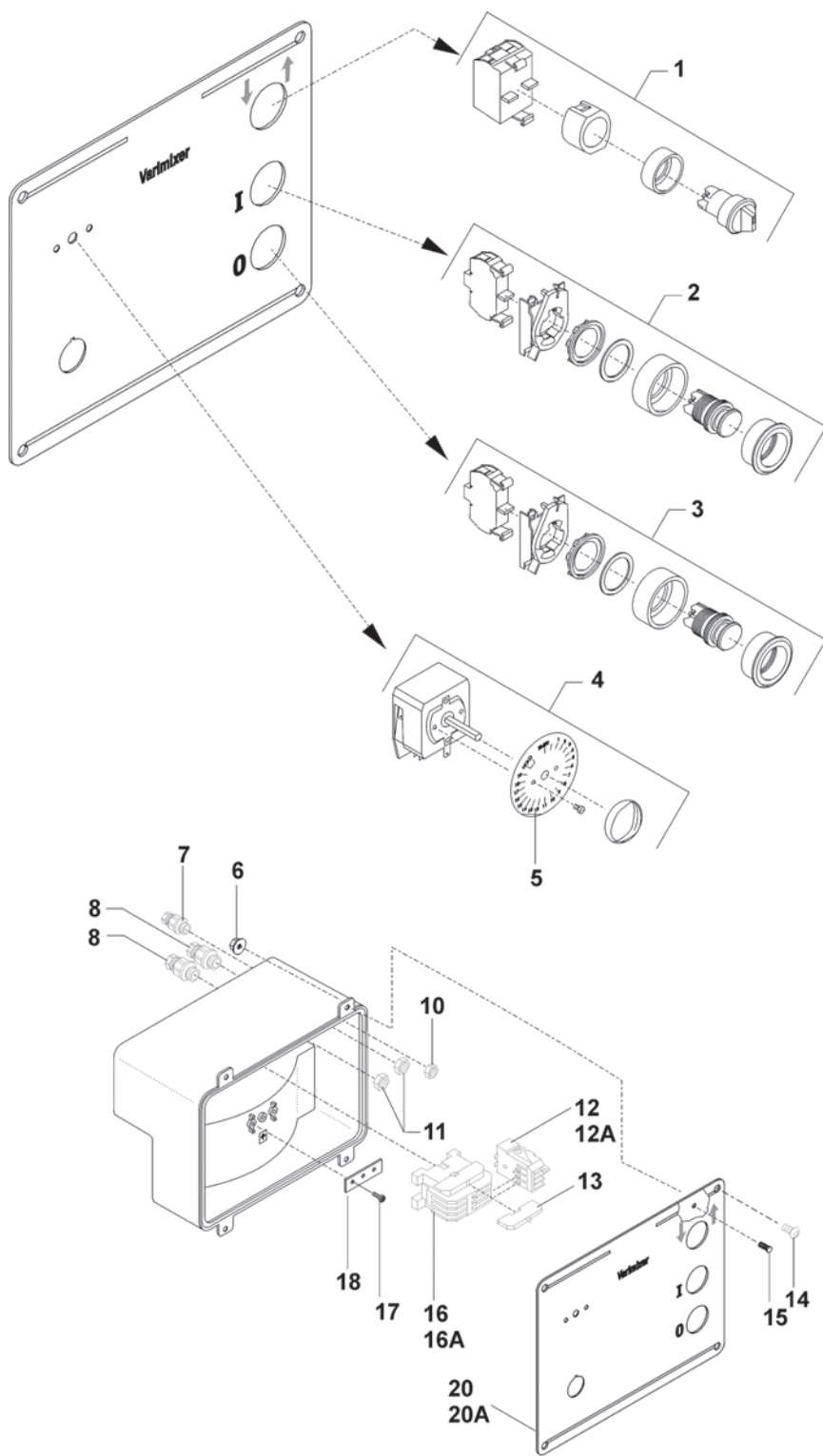
| <u>Fig.<br/>No.</u> | <u>Description</u>                 | <u>W80</u>               |
|---------------------|------------------------------------|--------------------------|
| 1.                  | Grease Zerk                        | STA 3220                 |
| 2.                  | Motor Mount Plate                  | <a href="#">60-61</a>    |
| 3.                  | Slotted Screw                      | STA 5018                 |
| 4.                  | Washer                             | STA 6054                 |
| 5.                  | Gear Case Cover                    | <a href="#">15-11</a>    |
| 6.                  | Ball Bearing                       | <a href="#">20-104</a>   |
| 7.                  | Snap Ring                          | STA 3410                 |
| 8.                  | Key f/motor pulley                 | STA 2007                 |
| 9.                  | Upper attachment drive shaft       | <a href="#">20-52</a>    |
| 10.                 | Key f/worm gear                    | STA 2011                 |
| 11.                 | Worm Gear                          | <a href="#">20-49</a>    |
| 12.                 | Gear Case                          | <a href="#">15-10</a>    |
| 13.                 | Bolt f/gear case to motor          | STA 5433                 |
| 14.                 | Washer                             | STA 6020                 |
| 15.                 | Seal                               | STA 5908                 |
| 16.                 | Gasket (NLA-Use RTV Silicone)      | NLA                      |
| 17.                 | Gasket (NLA-Use RTV Silicone)      | NLA                      |
| 18.                 | Bolt f/gear case to motor          | STA 5433                 |
| 19.                 | Lockwasher                         | STA 6056                 |
| 20.                 | Ball Bearing                       | <a href="#">15-105</a>   |
| 21.                 | Wormwheel                          | <a href="#">20-9</a>     |
| 22.                 | Seal                               | <a href="#">20-107</a>   |
| 23.                 | Seal                               | STA 5908                 |
| 24.                 | Slotted Screw                      | STA 5018                 |
| 25.                 | Bearing Hub                        | <a href="#">15-5</a>     |
| 26.                 | Key f/attachment drive shaft       | STA 2032                 |
| 27.                 | Attachment Drive Shaft #17         | <a href="#">15-50</a>    |
| 27A.                | Attachment Drive Shaft #12         | <a href="#">30-50</a>    |
| 28.                 | Attachment Drive Hub #17           | <a href="#">15-8</a>     |
| 28A.                | Attachment Drive Hub #12           | <a href="#">30-8</a>     |
| 29.                 | Lockwasher                         | STA 6056                 |
| 30.                 | Pin f/hub                          | STA 6316                 |
| 31.                 | Bolt f/hub                         | STA 5322                 |
| 32.                 | Thumbscrew #17                     | STA 5561                 |
| 32A.                | Thumbscrew #12                     | <a href="#">4R-125</a>   |
| 34.                 | Rubber Ring f/hub                  | <a href="#">15-211</a>   |
| 35.                 | Hub End Cover #17                  | <a href="#">15-214</a>   |
| 35A.                | Hub End Cover #12                  | <a href="#">312C</a>     |
| 36.                 | Motor 4 hp 3/220/60                | 100-88.50                |
| 36A.                | Motor 4 hp 3/480/60                | 100-85.10                |
| 37.                 | Attachment Drive Shaft Assembly#17 | <a href="#">15-5M</a>    |
| 37A.                | Attachment Drive Shaft Assembly#12 | <a href="#">30-5M</a>    |
| 38.                 | Attachment Drive Assembly#17       | <a href="#">30-10.5M</a> |
| 38A.                | Attachment Drive Assembly#12       | <a href="#">30-10.6M</a> |
| 39.                 | Gear Cover Assembly                | <a href="#">15-11M</a>   |



1

## Bowl Screen W80-W100

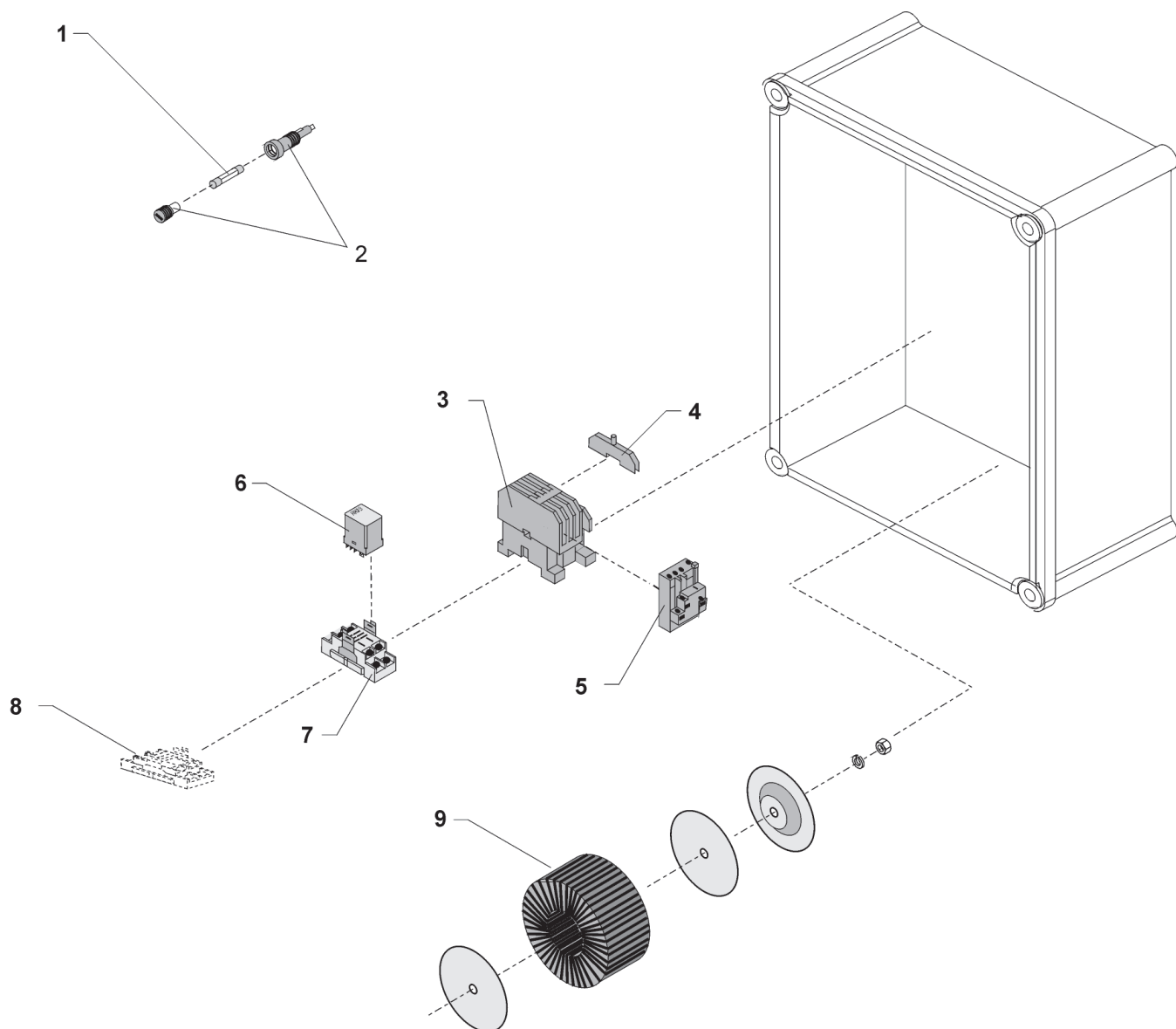
| <u>Fig.<br/>No.</u> | <u>Description</u>           | <u>W80-W100</u>           |
|---------------------|------------------------------|---------------------------|
| 1.                  | Bowl Screen Kit W80          | 225/80N                   |
| 1A.                 | Bowl Screen Kit W100         | <a href="#">225/100N</a>  |
| 2.                  | Screw                        | STA 5250                  |
| 3.                  | Nut                          | STA 5819                  |
| 4.                  | Bowl Screen Cam notched      | <a href="#">56SN30-22</a> |
| 5.                  | Set Screw f/cam              | STA 5665                  |
| 6.                  | Set Screw f/keeper           | STA 5665                  |
| 7.                  | Bushing                      | <a href="#">56SN30-21</a> |
| 8.                  | Nut f/ bushing               | <a href="#">56SN30-24</a> |
| 9.                  | Cam                          | <a href="#">56SN30-23</a> |
| 10.                 | Screw f/microswitch          | STA 5251                  |
| 11.                 | Microswitch                  | <a href="#">56SN20-30</a> |
| 12.                 | Bracket f/ microswitch       | <a href="#">56SN30-13</a> |
| 13.                 | Microswitch bracket assembly | <a href="#">56P30-15</a>  |
| 14.                 | Nut                          | STA 5810                  |
| 15.                 | Lockwasher                   | STA 6056                  |
| 16.                 | Nut f/bowl screen adjustment | <a href="#">56G30-26</a>  |
| 17.                 | Rear bowl screen W80         | 225/80NR                  |
| 17A                 | Rear bowl screen W100        | <a href="#">225/100NR</a> |
| 18.                 | Front bowl screen W80        | 225/80NF                  |
| 18A.                | Front bowl screen W100       | <a href="#">225/100NF</a> |
| 19.                 | Ingredient Chute             | <a href="#">227</a>       |



## Electrical Control Panel W80-W100 1998-Present

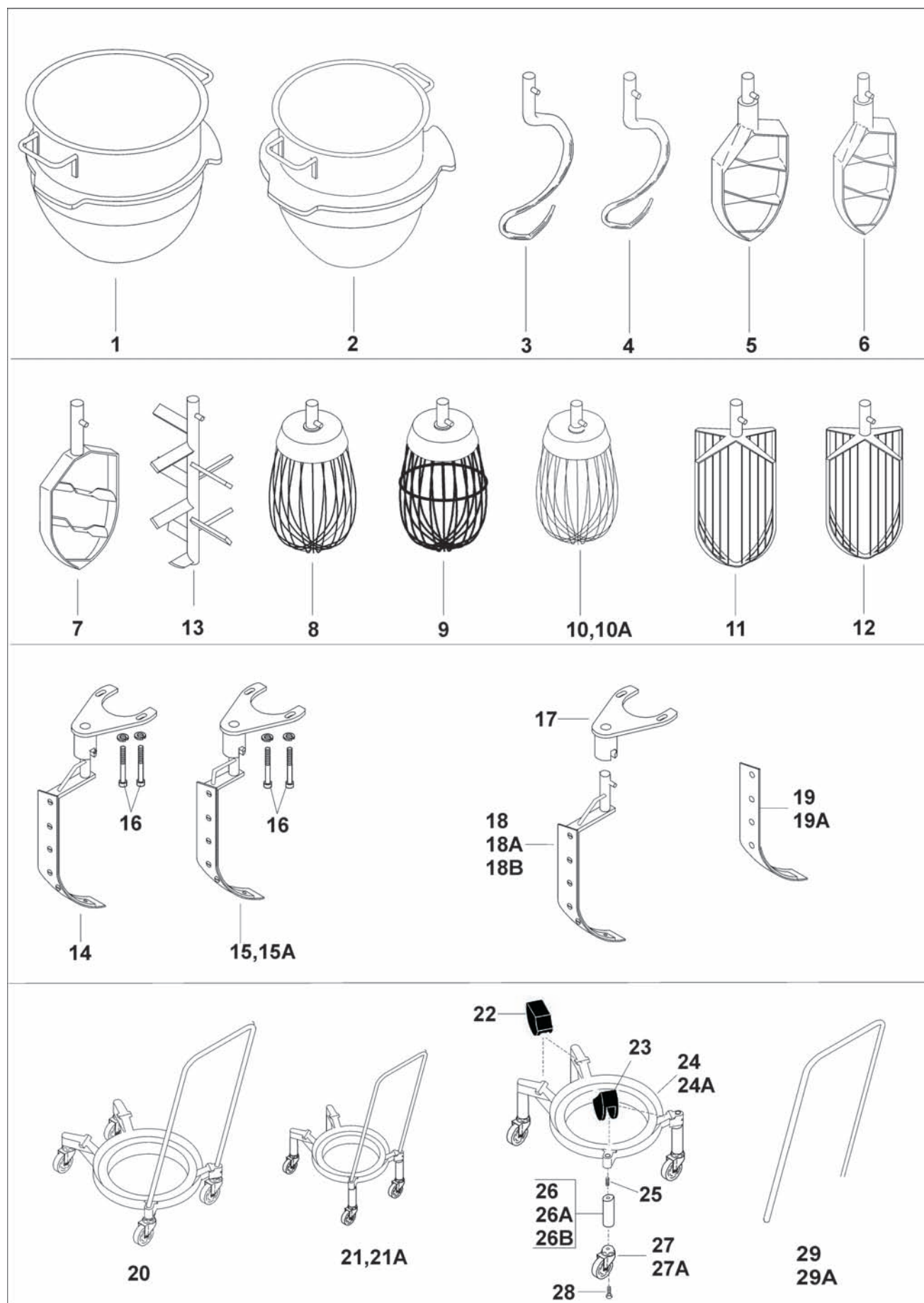
| <u>Fig.<br/>No.</u> | <u>Description</u>                      | <u>W80-W100</u>           |
|---------------------|-----------------------------------------|---------------------------|
| 1.                  | Power Bowl Lift Switch (if applicable)  | <a href="#">60-86.1</a>   |
| 2.                  | Start Button complete                   | <a href="#">31-174.2</a>  |
| 3.                  | Stop Button complete                    | <a href="#">31-174.3</a>  |
| 4.                  | Timer (220v)                            | <a href="#">30-188.15</a> |
| 5.                  | Timer Scale 15 minute                   | <a href="#">30-190</a>    |
| 6.                  | Nut                                     | STA 5987                  |
| 7.                  | Cable Inlet f/14/2 cable                | STA 6483                  |
| 8.                  | Cable Inlet f/14/4 cable                | STA 3017                  |
| 10.                 | Nut                                     | STA 3038                  |
| 11.                 | Nut                                     | STA 3010                  |
| 12.                 | Thermal Overload 220v*                  | <a href="#">20-88.24</a>  |
| 12A.                | Thermal Overload 480v*                  | <a href="#">20-88.21</a>  |
| 13.                 | Auxiliary Switch*                       | <a href="#">20-88.47</a>  |
| 14.                 | Screw                                   | STA 5097                  |
| 15.                 | Press Screw                             | STA 6483                  |
| 16.                 | Contactor 220v*                         | <a href="#">100-88.5</a>  |
| 16A.                | Contactor 480v*                         | <a href="#">20-88.91</a>  |
| 17.                 | Screw                                   | STA 5232                  |
| 18.                 | Ground Clamp                            | <a href="#">31-457</a>    |
| 19.                 | Plastic Electrical Box                  | <a href="#">31-152</a>    |
| 20.                 | Front Control Plate w/o Power Bowl Lift | <a href="#">31-149</a>    |

*\*On versions produced from 2005 to present, these components are located in the rear power supply box, behind the rear access panel on the mixer frame. Refer to the following diagram.*



## Electrical Power Supply W80-W100 1998-Present

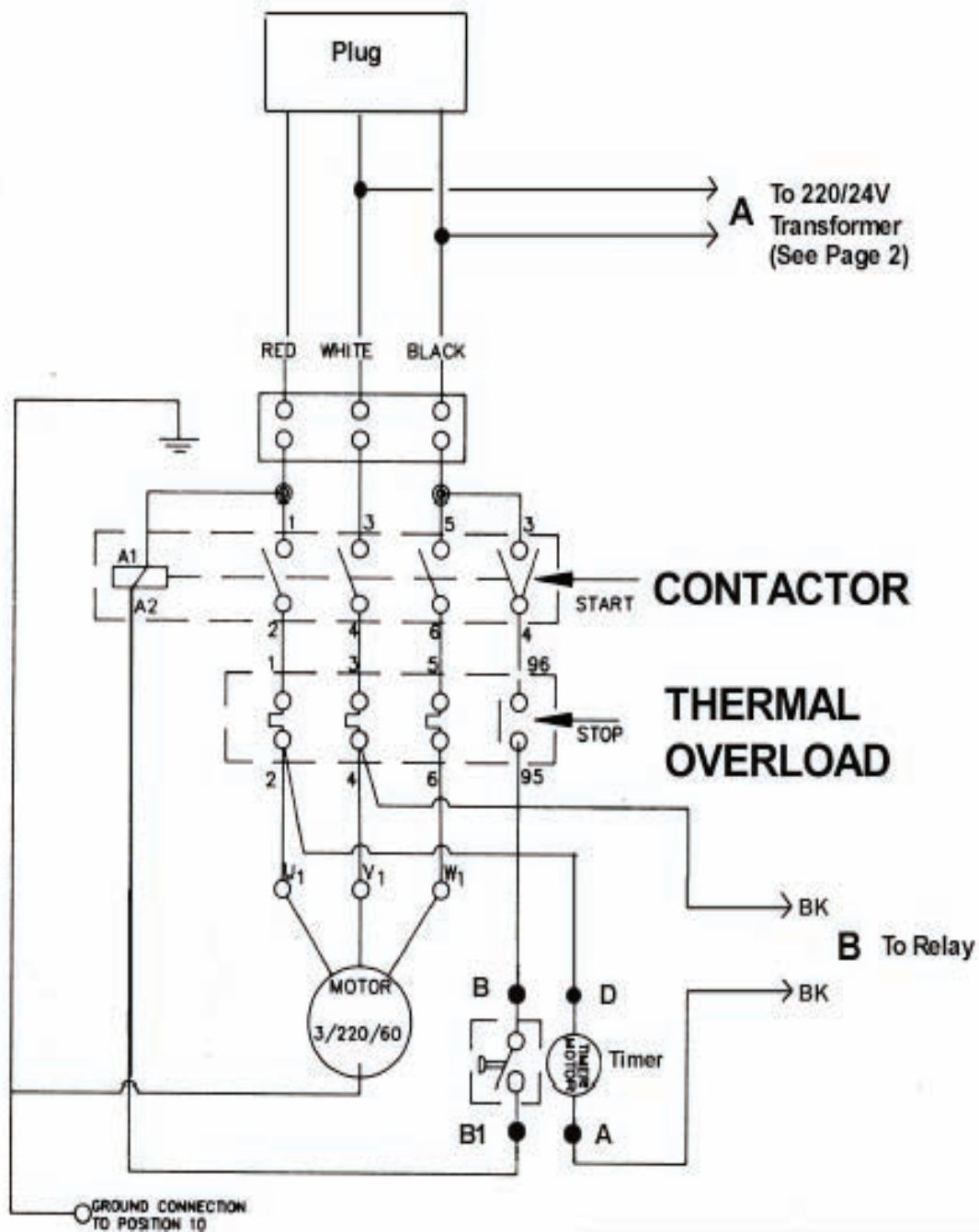
| <u>Fig.<br/>No.</u> | <u>Description</u>            | <u>W80-W100</u>            |
|---------------------|-------------------------------|----------------------------|
| 1.                  | Fuse                          | <a href="#">20E-418</a>    |
| 2.                  | Fuse Holder                   | <a href="#">20E-416</a>    |
| 3.                  | Contactor 220V                | <a href="#">100-88.5</a>   |
| 3A.                 | Contactor 480V                | <a href="#">20-88.91</a>   |
| 4.                  | Auxiliary Switch              | <a href="#">20-88.47</a>   |
| 5                   | Thermal Overload 11-16 Amps   | <a href="#">20-88.24</a>   |
| 5A.                 | Thermal Overload 4-6.2 Amps   | <a href="#">20-88.21</a>   |
| 6.                  | Relay 24VDC IDEC RH1B-U       | <a href="#">140E-420</a>   |
| 7.                  | Relay Socket                  | <a href="#">140E-421</a>   |
| 8.                  | LINAK Power Bowl Lift Control | <a href="#">100N-86.01</a> |
| 9.                  | Transformer 220v/31v          | <a href="#">60E-430.1</a>  |
| 10.                 | Rectifier                     | <a href="#">150E-425</a>   |



## Accessories W80-W100

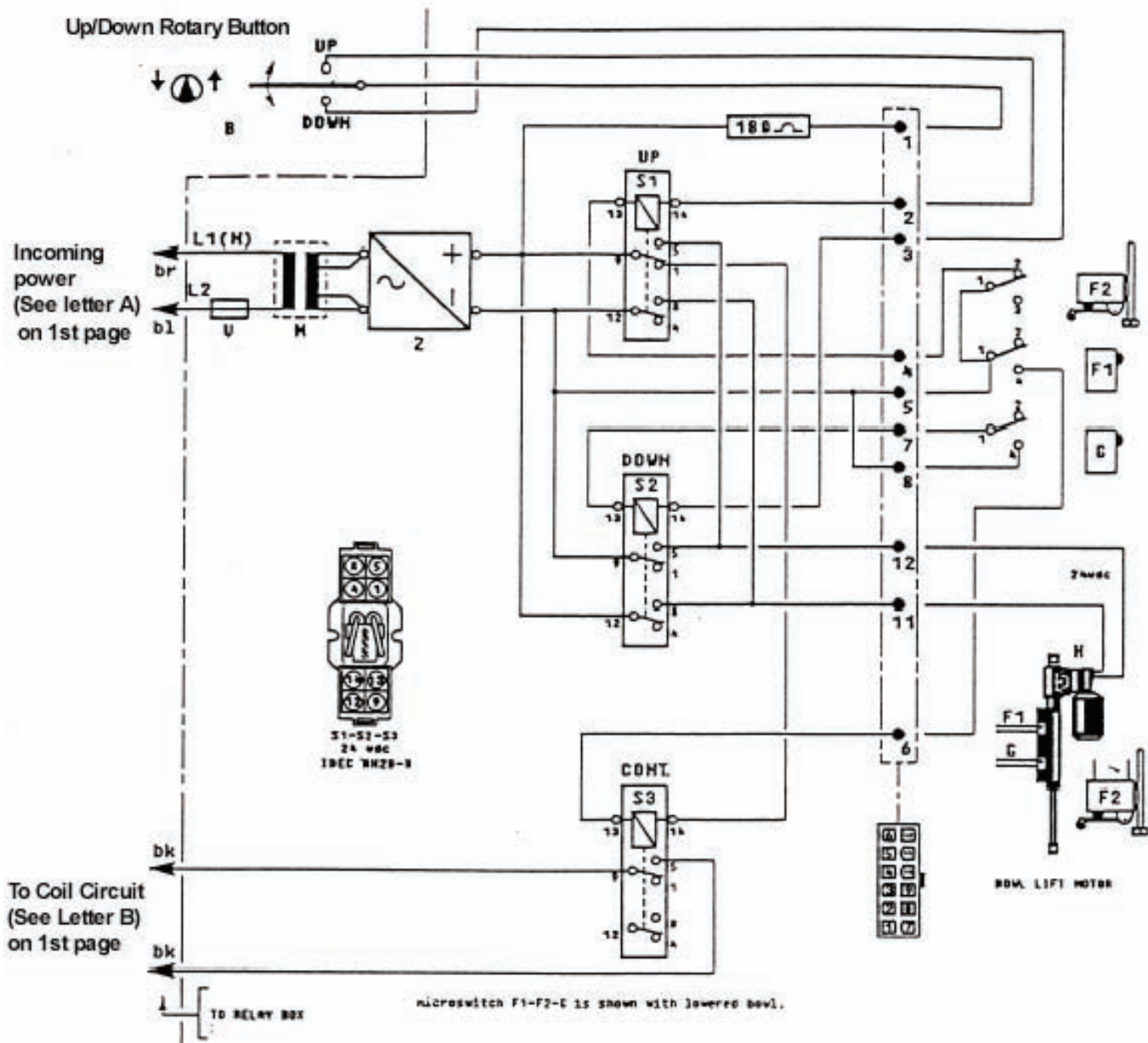
| <u>Fig.<br/>No.</u> | <u>Description</u>                    | <u>W80</u>   | <u>W100</u>  |
|---------------------|---------------------------------------|--------------|--------------|
| 1.                  | Standard Stainless Steel Bowl         | 203/80N      | 203/100N     |
| 2.                  | Stainless Steel Bowl (downsized 60)   | NA           | 203/60N      |
| 2A.                 | Stainless Steel Bowl (downsized 40)   | 203/40BN     | 203/40N      |
| 3.                  | Standard Dough Hook                   | 213/80D      | 213/100D     |
| 4.                  | Dough Hook (downsized)                | 213/40BN     | 213/40N      |
| 5.                  | Standard Flat Beater                  | 205/80N      | 205/100N     |
| 6.                  | Flat Beater (downsized 60 QT)         | NA           | 205/60N      |
| 6A.                 | Flat Beater (downsized 40 QT)         | 205/40BN     | 205/40N      |
| 7.                  | Stainless Steel Flat Beater           | 204/80N      | 204/100N     |
| 8.                  | Standard Wire Whip                    | 207/80N      | 207/100N     |
| 9.                  | Reinforced Wire Whip                  | 221/80N      | 221/100N     |
| 10.                 | Wire Whip (downsized 60 QT)           | NA           | 207/60N      |
| 10A.                | Wire Whip (downsized 40 QT)           | 207/40BN     | 207/40N      |
| 11.                 | Wing Whip                             | 209/80N      | 209/100N     |
| 12.                 | Wing Whip (downsized)                 | NA           | NA           |
| 13.                 | Powder Mixing Tool                    | NA           | 220/100N     |
| 14.                 | Bowl Scraper Assembly Full Size       | 224/80N      | 224/100N     |
| 15.                 | Bowl Scraper (downsized 60 QT)        | NA           | 224/60N      |
| 15A.                | Bowl Scraper (downsized 40 QT)        | 224/40BN     | 224/40N      |
| 16.                 | Bowl Scraper Mounting Bolts           | STA 5652     | STA 5652     |
| 17.                 | Bowl Scraper Holder                   | 42RN100-101M | 42RN100-101M |
| 18.                 | Arm w/ Blade Assembly                 | 42AR80-202   | 42RN100-202  |
| 18A.                | Arm w/ Blade (downsized 60 QT)        | NA           | NA           |
| 18B.                | Arm w/ Blade (downsized 40 QT)        | 42AR41-202   | 42RN100B-202 |
| 19.                 | Nylon Blade Keyhole Style             | 42AR80-204   | 42RN100-204  |
| 19A.                | Nylon Blade Keyhole Style (downsized) | 42R40-204    | 42R40-204    |
| 20.                 | Bowl Truck f/full size bowl           | 215/80N      | 215/100N     |
| 21.                 | Bowl Truck f/downsize bowl (60 QT)    | NA           | 215/60N      |
| 21A.                | Bowl Truck f/downsize bowl (40 QT)    | 215/40BN     | 215/40N      |
| 22.                 | Bowl Truck Rubber Block (Front)       | 100-206A     | 100-206A     |
| 23.                 | Bowl Truck Rubber Block (Rear)        | 100-206      | 100-206      |
| 24.                 | Bowl Truck Cast                       | 22R100-40    | 22R100-40    |
| 24A.                | Bowl Truck Cast (downsized bowl)      | 22R20-40     | 22R20-40     |
| 25.                 | Screw f/spacer to casting             | STA 5608     | STA 5608     |
| 26.                 | Spacer f/full size bowl truck         | 22R140.6     | 22R140.1-7W  |
| 26A.                | Spacer f/downsized bowl (60qt)        | NA           | 22R140.1-8W  |
| 26B.                | Spacer f/downsized bowl (40qt)        | 22R140.1-3W  | 22R140.1-8W  |
| 27.                 | Castor-Dual Wheel (full size bowl)    | 22R150-520   | 22R150-520   |
| 27A.                | Castor-Single Wheel (downsized)       | 22R30-520    | 22R30-520    |
| 28.                 | Bolt f/castor to spacer               | STA 5131     | STA 5131     |
| 29.                 | Bowl Truck Handle                     | 22R271       | 22R271       |
| 29A.                | Bowl Truck Handle (downsized)         | 22R277       | 22R277       |

# W80-W100 Wiring Diagram with Power Bowl Lift 1988-1996



SEE NEXT PAGE FOR ELECTRIC BOWL LIFT

# W80-W100 Wiring Diagram with Power Bowl Lift 1988-1996

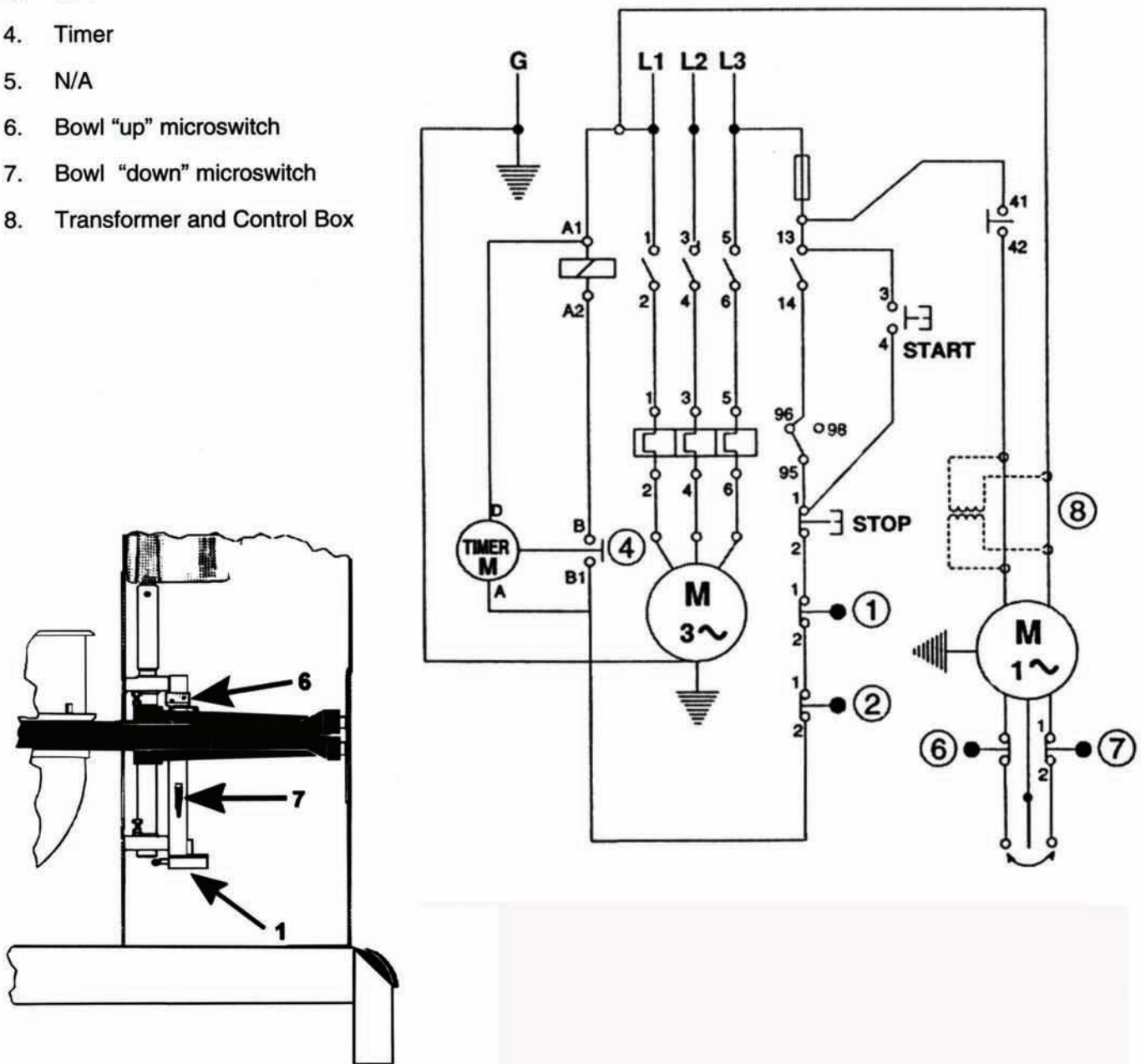


- B ..... Switch for bowl lift .....
- F1 ..... Bowl raised switch (Motorstart) .  
Switch for motorstart
- F2 ..... Bowl raised switch .....
- G ..... Bowl lowered switch .....
- H ..... Bowl lift motor .....
- M ..... Transformer .....
- S1 ..... Relay for bowl lift .....
- S2 ..... Relay for bowl lowering .....
- S3 ..... Control relay for motorstart .....
- Z ..... Rectifier .....
- V ..... Fuse 2-2,5 amp. slow .....

## W80-W100 Wiring Diagram with Power Bowl Lift 1996

1. Bowl up – “Start” microswitch
2. Bowl Screen microswitch
3. N/A
4. Timer
5. N/A
6. Bowl “up” microswitch
7. Bowl “down” microswitch
8. Transformer and Control Box

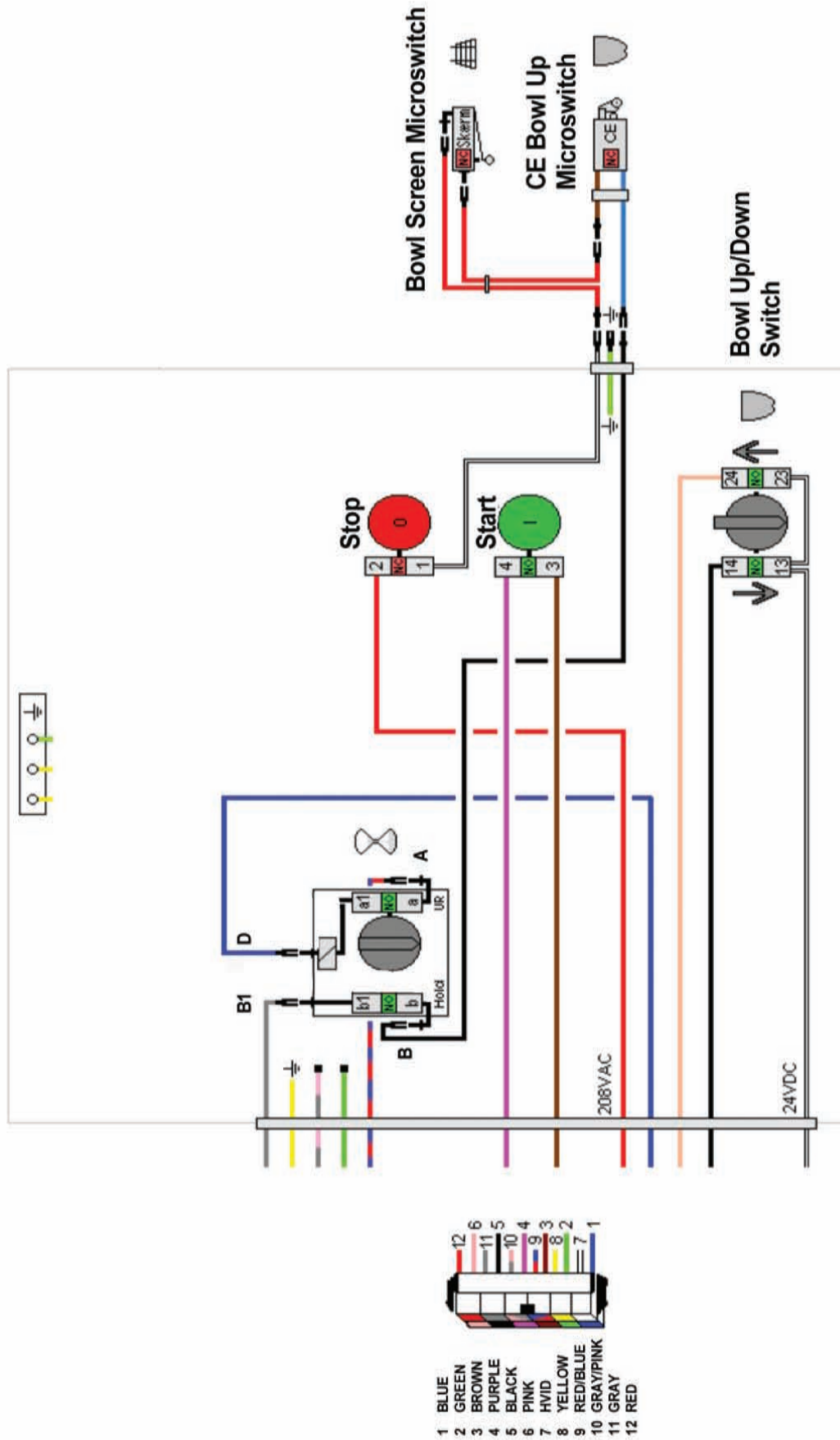
### 3 Phase (Shown with Power Bowl Lift)



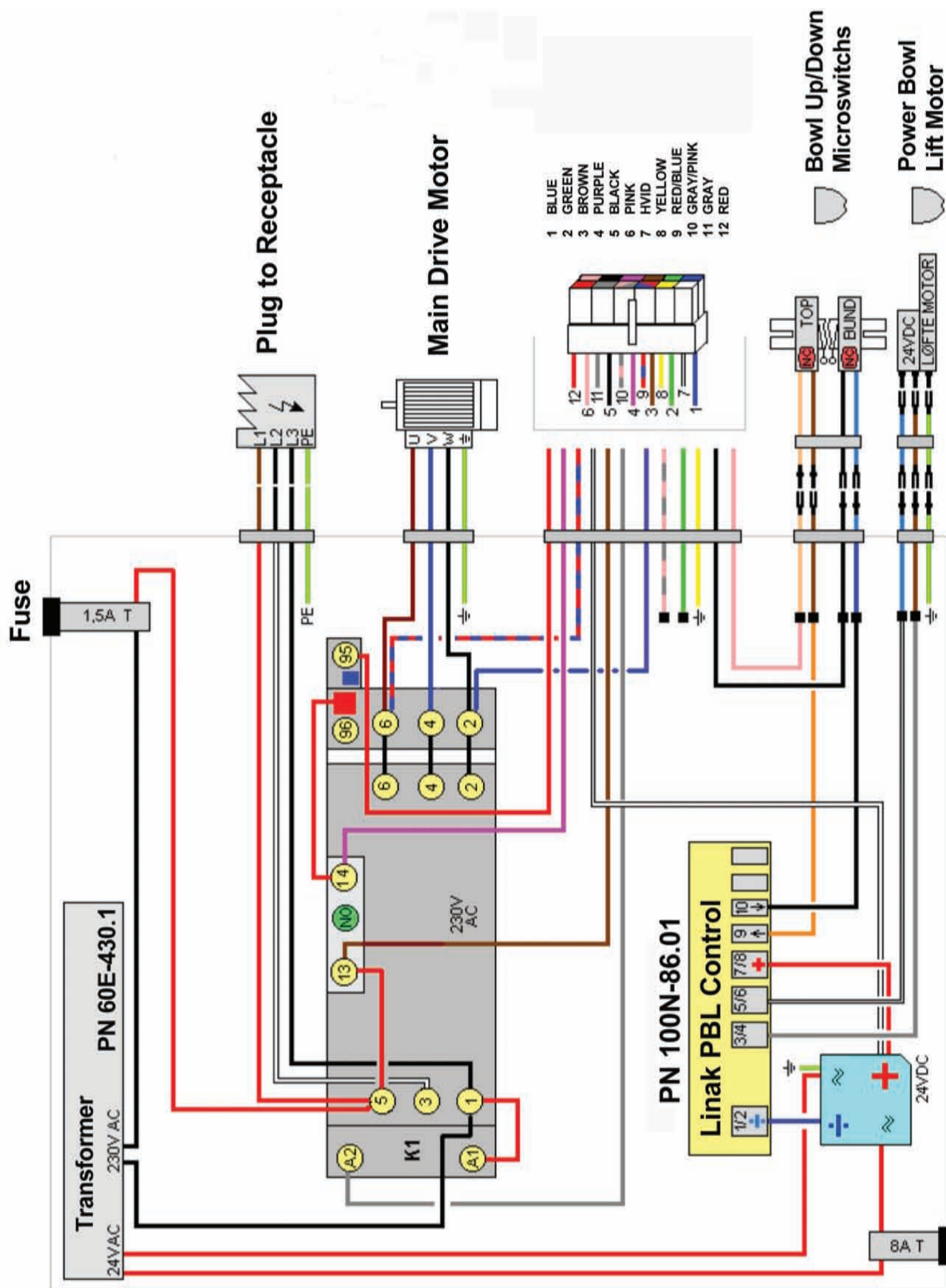
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# W80-W100 Front Panel Wiring Diagram with Power Bowl Lift 2005-Present

NR\_05\_03 Frontpanel  
30-100 ltr. MK1L USA start 20/11-2006.



# W80-W100 Power Supply Wiring Diagram with Power Bowl Lift 2005-Present





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